1-15-10 Letting, Item 204

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 70388		

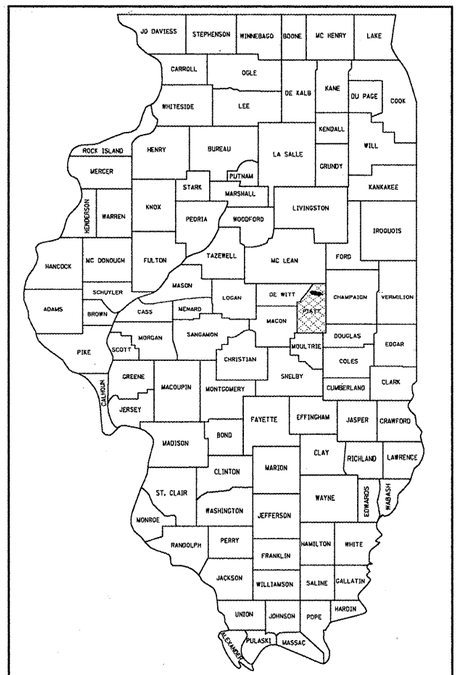
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 6-10

PROPOSED
HIGHWAY PLANS

F.A.S. ROUTE 1517 (US 150)
SECTION 12VBR-1
PROJECT ACBRM-1517(111)
US 150 OVER NSRR IN MANSFIELD
PIATT COUNTY
C-95-032-04

D-95-031-04



LOCATION OF SECTION INDICATED THUS:- ■

CURRENT TRAFFIC DATA

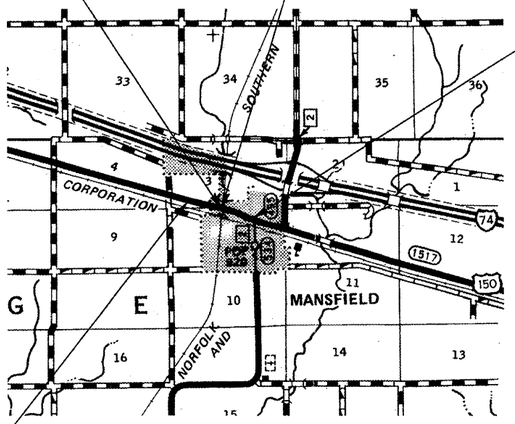
F. A. S. ROUTE 1517 (US 150)

2009 ADT =	1,550
PV % =	93.5
SU % =	5.2
MU % =	1.3

EXIST. S.N. 074-0009 STA. 289+23.00
5 SPAN PPC DECK BEAMS ON SPILL-THRU COUNTER-FORT ABUTMENTS AND MULTI-COLUMN PIERS

PROP. S.N. 074-0086 STA. 289+22.38
CONTINUOS STEEL BEAM BRIDGE
3 SPAN W/ INTEGRAL ABUTMENTS
SKEW 9°-42'-41" RT FORWARD

R.6.E.

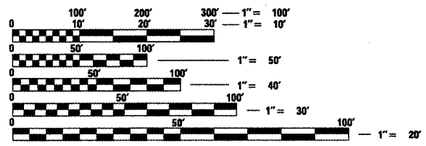


SECTION 12VBR-1 ENDS
STATION 304+00.00

SECTION 12VBR-1 BEGINS
STATION 273+00.00

DESIGN DESIGNATION

RURAL MAJOR COLLECTOR



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

PROJECT ENGINEER: KEVIN TRAPP
SQUAD LEADER: JEFF M. SHERER

PHONE: 217-465-4181

CONTRACT NO. 70388

TOTAL LENGTH OF SECTION & PROJECT = 3,100.00 FEET = 0.587 MILES
NET LENGTH OF SECTION & PROJECT = 3,100.00 FEET = 0.587 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 10/20 20 09
Jason E. Clowes
DEPUTY DIRECTOR OF HIGHWAYS, REGION 3 ENGINEER
December 4, 2009
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT
December 4, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

LIST OF STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
421001-02	BAR REINFORCEMENT FOR CRC PAVEMENT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542101-02	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 36" (900 mm) DIAMETER AT RIGHT ANGLES WITH ROADWAY
542401-01	METAL END SECTION FOR PIPE CULVERTS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602011-01	CATCH BASIN TYPE C
604091-02	FRAME AND GRATE TYPE 24
606101-04	TYPE A GUTTER, INLET, OUTLET & ENTR.
610001-05	SHOULDER INLET WITH CURB
630001-08	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-08	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR FOR TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT OF WAY MARKERS
667101-01	PERMANENT SURVEY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≤ 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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	PLOT DATE = 10/13/2009	DATE - 050609	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS /HIGHWAY STANDARDS

SCALE: N/A | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	2
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.07B

EXISTING STATE-OWNED AND MAINTAINED UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL SECURE AN APPROVED LOCATING FIRM TO LOCATE STATE-OWNED UTILITIES PRIOR TO COMMENCING ANY EXCAVATION IN THE VICINITY OF THESE LINES IN ACCORDANCE TO SECTION 803 OF THE STANDARD SPECIFICATIONS. SHOULD ANY OF THE LINES BE DAMAGED BY THE CONTRACTOR◇S OPERATION, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE STATE.

ALSO THERE MAY BE UTILITIES PRESENT WHICH WERE INSTALLED BY THE STATE BUT ARE MAINTAINED BY OTHERS (CITY, TOWN, ETC.) THE APPROXIMATE LOCATIONS OF THESE LINES ARE ALSO SHOWN ON THE PLANS ALONG WITH THE NAME OF THE MAINTAINING AGENCY. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THESE LINES WITH THE LOCAL AGENCY PRIOR TO COMMENCING ANY EXCAVATION OR BORING IN THEIR VICINITY. SHOULD THESE LINES BE DAMAGED BY THE CONTRACTOR◇S OPERATIONS, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF, AND AT NO COST TO, THE LOCAL AGENCY AND THE STATE.

G.N.-105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.12

THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE LOCAL RAILROAD CONTACT IS:

Mrs. Kathy Miles
Division Office Manager-Illinois Division
Norfolk Southern Railway Company
1735 East Condit Street
Decatur, IL. 62521
(217) 425-2042

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RAILROAD CONTACT PERSON FOR FLAGGERS IS:

Mr. Howard Swanson
Asst. Division Engineer-Bridges Illinois Division
Norfolk Southern Railway Company
(217) 425-2066
1735 East Condit Street
Decatur, IL. 62521
Illinois Division

G.N.-107.31

UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTLILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123 OR 811.

THE CONTRACTOR SHOULD CONTACT NORFOLK SOUTHERN (NS) TO LOCATE THEIR UTILITIES. THE NSRR CONTACT FOR LOCATING UTILITES ON NSRR RIGHT OF WAY IS MR. RON MILLER (404-527-2873), E-MAIL: ron.miller@nscop.com

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES /COMMITMENTS

SCALE: N/A | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	3
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

G.N.-205

BENCHING PROCEDURES SHALL BE USED IN AREAS WHERE EXISTING EMBANKMENTS ARE WIDENED FOR THE PROPOSED PAVEMENT. STEPS SHALL BE CUT INTO THE EXISTING EMBANKMENT SLOPES AND SHALL HAVE THE FOLLOWING DIMENSIONS:

1:4, 1:3, 1:2, & VAR.	VERTICAL:	1
	HORIZONTAL:	4

G.N.-250C

SEEDING, CLASS 7 IS INCLUDED IN THIS CONTRACT TO SEED NEW AREAS DISTURBED BY CONSTRUCTION ALONG WITH AREAS OF CLASS 2 PERMANENT SEEDING . ALL OF THE CLASS 7 SEEDING SHALL BE PLACED ALONG WITH THE CLASS 2 SEEDING TO HELP PROMOTE ACCELERATED VEGETATION GROWTH.

G.N.-302

WHERE SMALL QUANTITIES OF LIME MODIFICATION ARE SHOWN IN THE PLANS, SUBBASE GRANULAR MATERIAL, TYPE A MAY BE SUBSTITUTED AND CONSTRUCTED ACCORDING TO THE APPLICABLE PORTIONS OF SECTION 311. THE DEPTH OF THE SUBBASE GRANULAR MATERIAL SHALL BE THE SAME AS THE PROPOSED DEPTH OF THE LIME MODIFICATION. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR PROCESSING LIME MODIFIED SOILS OF THE DEPTH SPECIFIED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406.05b

ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER.

THE FOG COAT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER GALLON FOR BITUMINOUS MATERIAL (PRIME COAT) AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

GN 406H Mixture Requirements

Location	US 150	US 150	US 150
Mixture Use	Binder	Surface, Incid, Top 2" HMA Shoulder	Bottom 6" HMA Shoulder
AC/PG	PG 64-22	PG 64-22	PG 58-22
RAP % (Max)	See Special Prov.	See Special Prov.	See Special Prov.
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50	2.0% @ Ndes=30
Mix Comp(Gradation)	IL 19.0	IL 9.5	Other
Friction Aggregate	N.A.	Mix C	N.A.

G.N.-506

ALL FINAL SURFACES OF THE BEAMS SHALL BE PAINTED WITH LIGHT GREY (MUNSELL COLOR STANDARD - 10Y 7/1) EXCEPT THE EXTERIOR SURFACES OF THE EXTERIOR BEAMS WHICH SHALL BE PAINTED WITH INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

G.N.-542

BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N.-631

IF THE CONTRACTOR ELECTS TO USE THE ALTERNATE MOUNTING METHOD OF THRU DRILLING THE MOUNTING HOLES FOR THE TRAFFIC BARRIER TERMINALS, TYPE 6, THE HOLES SHALL BE DRILLED USING A CORE DRILL. A HAMMER DRILL WILL NOT BE ALLOWED.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES /COMMITMENTS

SCALE: N/A | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	4
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

G.N.-667

THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC S, PT S, AND P S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR SETTING THESE MARKERS.

G.N.-703A

SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.-781

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN STRIPES (WHEN APPLICABLE).

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

G.N.-Z0038

AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

STRUCTURAL PAVEMENT DESIGN INFORMATION

STRUCTURAL DESIGN TRAFFIC: 2,000 YEAR: 2025

PV = 1,786 S U = 88 MU = 36

ROAD/STREET CLASSIFICATION: Major Collector

P = 50% S = 50% M = 50%

TRAFFIC FACTOR: Actual TF = 0.32 AC Type = 20

Minimum TF = 5.45

PG GRADE: Binder = PG 64-22

Surface = PG 64-22

PAVEMENT TYPE: Hot-Mix Asphalt Concrete Pavement (Full Depth), 13"

SUBGRADE SUPPORT RATING: Poor

Construction Year 2010

Design Period 20 years

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES /COMMITMENTS

SCALE: N/A | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	5
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

					LOCATION OF WORK:	FAS 1517 RURAL 2L2W STA. 273+00.00 TO 288+04.38 STA. 290+40.38 TO 296+45.15 FED 80% STATE 20% CONSTRUCTION TYPE CODE: I000-2A	FAS 1517 BRIDGE SN 074-0086 STA. 288+40.38 TO STA. 290+04.38 FED 80% STATE 20% X171-2A
	CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
	20200100	EARTH EXCAVATION	CU YD	20,821.0	20,821.0	
	20400800	FURNISHED EXCAVATION	CU YD	39,898.0	39,898.0	
	20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	92.4		92.4
	20800150	TRENCH BACKFILL	CU YD	26.0	26.0	
*	25000200	SEEDING, CLASS 2	ACRE	8.0	8.0	
*	25000350	SEEDING, CLASS 7	ACRE	8.0	8.0	
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	666.0	666.0	
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	666.0	666.0	
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	666.0	666.0	
*	25100115	MULCH, METHOD 2	ACRE	5.0	5.0	
*	25100630	EROSION CONTROL BLANKET	SQ YD	15,381.0	15,381.0	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	740.0	740.0	
	28000305	TEMPORARY DITCH CHECKS	FOOT	144.0	144.0	
	28000400	PERIMETER EROSION BARRIER	FOOT	6,087.0	6,087.0	
	28000500	INLET AND PIPE PROTECTION	EACH	2.0	2.0	
	28100105	STONE RIPRAP, CLASS A3	SQ YD	106.0	106.0	
	30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	8,172.0	8,172.0	
	30201500	LIME	TON	184.0	184.0	
	31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	280.0	280.0	
	31102100	SUB-BASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	982.0	982.0	

* SPECIALTY ITEM

(CONTINUED NEXT SHEET)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	6
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

		LOCATION OF WORK:			FAS 1517 RURAL 2L2W STA. 273+00.00 TO 288+04.38 STA. 290+40.38 TO 296+45.15 FED 80% STATE 20%	FAS 1517 BRIDGE SN 074-0086 STA. 288+40.38 TO STA. 290+04.38 FED 80% STATE 20%
		CONSTRUCTION TYPE CODE:			I000-2A	X171-2A
CODE NO	ITEM		UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
35100700	AGGREGATE BASE COURSE, TYPE A 8"		SQ YD	592.0	592.0	
35101800	AGGREGATE BASE COURSE, TYPE B 6"		SQ YD	26.0	26.0	
40200800	AGGREGATE SURFACE COURSE, TYPE B		TON	676.0	676.0	
40600100	BITUMINOUS MATERIALS (PRIME COAT)		GALLON	830.0	830.0	
40600300	AGGREGATE (PRIME COAT)		TON	17.0	17.0	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50		TON	98.0	98.0	
40701941	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13"		SQ YD	7,118.0	7,118.0	
40800010	BITUMINOUS MATERIALS (PRIME COAT)		GALLON	80.0	80.0	
40800030	AGGREGATE (PRIME COAT)		TON	2.0	2.0	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING		TON	89.0	89.0	
44000100	PAVEMENT REMOVAL		SQ YD	7,100.0	7,100.0	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"		SQ YD	1,156.0	1,156.0	
44000196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL		SQ YD	193.0	193.0	
44000700	APPROACH SLAB REMOVAL		SQ YD	86.0	86.0	
44004250	PAVED SHOULDER REMOVAL		SQ YD	345.0	345.0	
48101200	AGGREGATE SHOULDERS, TYPE B		TON	60.0	60.0	
48101500	AGGREGATE SHOULDERS, TYPE B 6"		SQ YD	912.0	912.0	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"		SQ YD	694.0	694.0	
50100100	REMOVAL OF EXISTING STRUCTURES		EACH	1.0		1.0
50104000	BRIDGE RAIL REMOVAL		FOOT	438.0		438.0

* SPECIALTY ITEM

(CONTINUED NEXT SHEET)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET NO. 2 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	7
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

	LOCATION OF WORK:			FAS 1517 RURAL 2L2W STA. 273+00.00 TO 288+04.38 STA. 290+40.38 TO 296+45.15 FED 80% STATE 20%	FAS 1517 BRIDGE SN 074-0086 STA. 288+40.38 TO STA. 290+04.38 FED 80% STATE 20%
	CONSTRUCTION TYPE CODE:			I000-2A	X171-2A
CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
50104650	SLOPE WALL REMOVAL	SQ YD	542.0		542.0
50105200	REMOVE EXISTING CULVERTS	EACH	2.0	2.0	
50157300	PROTECTIVE SHIELD	SQ YD	230.0		230.0
50200100	STRUCTURE EXCAVATION	CU YD	250.0		250.0
50300225	CONCRETE STRUCTURES	CU YD	258.2		258.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	319.4		319.4
50300260	BRIDGE DECK GROOVING	SQ YD	697.0		697.0
50300280	CONCRETE ENCASEMENT	CU YD	4.2		4.2
50300300	PROTECTIVE COAT	SQ YD	967.0		967.0
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1.0		1.0
50500505	STUD SHEAR CONNECTORS	EACH	3,654.0		3,654.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	109,850.0		109,850.0
50800515	BAR SPLICERS	EACH	64.0		64.0
51100100	SLOPE WALL 4 INCH	SQ YD	482.0		482.0
51201600	FURNISHING STEEL PILES HP12X53	FOOT	2,348.0		2,348.0
51202305	DRIVING PILES	FOOT	2,348.0		2,348.0
51203600	TEST PILE STEEL HP12X53	EACH	2.0		2.0
51500100	NAME PLATES	EACH	1.0		1.0
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12.0		12.0
52100520	ANCHOR BOLTS, 1"	EACH	24.0		24.0

* SPECIALTY ITEM

(CONTINUED NEXT SHEET)

FILE NAME = c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-SOQ.dgn	USER NAME = shererjm	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES		
	PLOT SCALE = 100.0000 ' / IN.	DRAWN - JMS	REVISED -		SCALE: N/A	SHEET NO. 3 OF 5 SHEETS	STA. TO STA.
	PLOT DATE = 10/16/2009	CHECKED - JMS	REVISED -				
		DATE - 050609	REVISED -				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	8
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

					FAS 1517
	LOCATION OF WORK:			FAS 1517	BRIDGE
				RURAL	SN 074-0086
				2L2W	STA. 288+40.38
				STA. 273+00.00 TO 288+04.38	TO
				STA. 290+40.38 TO 296+45.15	STA. 290+04.38
				FED 80%	FED 80%
				STATE 20%	STATE 20%
	CONSTRUCTION TYPE CODE:			I000-2A	X171-2A
	CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
	52100540	ANCHOR BOLTS, 1 1/2"	EACH	24.0		24.0
	54213447	END SECTIONS 12"	EACH	12.0	12.0	
	54213450	END SECTIONS 15"	EACH	2.0	2.0	
	54215418	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 18"	EACH	4.0	4.0	
	542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	21.0	21.0	
	542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	104.0	104.0	
	542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	21.0	21.0	
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	56.8		56.8
	60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	4.0		4.0
	60100945	PIPE DRAINS 12"	FOOT	790.0	790.0	
	60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	137.0		137.0
	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	12.0	12.0	
	60500065	REMOVING INLETS, SPECIAL	EACH	4.0	4.0	
	60602500	CONCRETE GUTTER, TYPE A	FOOT	213.0	213.0	
	60900515	CONCRETE THRUST BLOCKS	EACH	12.0	12.0	
*	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1,825.0	1,825.0	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4.0	4.0	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4.0	4.0	
	63200310	GUARDRAIL REMOVAL	FOOT	2,349.0	2,349.0	
	66101150	HOT-MIX ASPHALT SHOULDER CURB	FOOT	2,078.0	2,078.0	

(CONTINUED NEXT SHEET)

* SPECIALTY ITEM

FILE NAME = c:\pw_work\PWIDOT\SHERERJM\dms86674\D70388-sht-S00.dgn	USER NAME = shererjm	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - JMS	REVISED -	
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - JMS	REVISED -	
	PLOT DATE = 10/13/2009	DATE - 050609	REVISED -	

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	9
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

					LOCATION OF WORK:	FAS 1517 RURAL 2L2W STA. 273+00.00 TO 288+04.38 STA. 290+40.38 TO 296+45.15 FED 80% STATE 20% I000-2A	FAS 1517 BRIDGE SN 074-0086 STA. 288+40.38 TO STA. 290+04.38 FED 80% STATE 20% X171-2A
					CONSTRUCTION TYPE CODE:		
	CODE NO	ITEM	UNIT	TOTAL QUANTITY		QUANTITY	QUANTITY
	66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	9.0		9.0	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10.0		10.0	
	67100100	MOBILIZATION	L SUM	1.0		1.0	
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0		1.0	
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0		1.0	
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	9,683.0		9,683.0	
*	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	22.0		22.0	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	36.0		36.0	
*	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	3.0		3.0	
*	78200405	GUARDRAIL MARKERS	EACH	24.0		24.0	
*	78200500	BARRIER WALL MARKERS	EACH	4.0		4.0	
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.0		4.0	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	36.0		36.0	
	X0320870	BRACED EXCAVATION	CU YD	112.0			112.0
	X0324865	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	734.0			734.0
	X0324952	DETOUR SIGNING	L SUM	1.0		1.0	
	X0326268	REINFORCED SOIL SLOPE SYSTEM	SQ FT	5,660.0			5,660.0
	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28.0		28.0	
*	XZ193300	SURVEY MARKER, TYPE 1 (SPECIAL)	EACH	4.0		4.0	
	Z0038700	PERMANENT BENCH MARKS	EACH	2.0		2.0	
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0		1.0	

* SPECIALTY ITEM

FILE NAME = c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-S00.dgn	USER NAME = shererjm	DESIGNED - JMS	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
		DRAWN - JMS	REVISED -	
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - JMS	REVISED -	
	PLOT DATE = 10/13/2009	DATE - 050609	REVISED -	

SUMMARY OF QUANTITIES

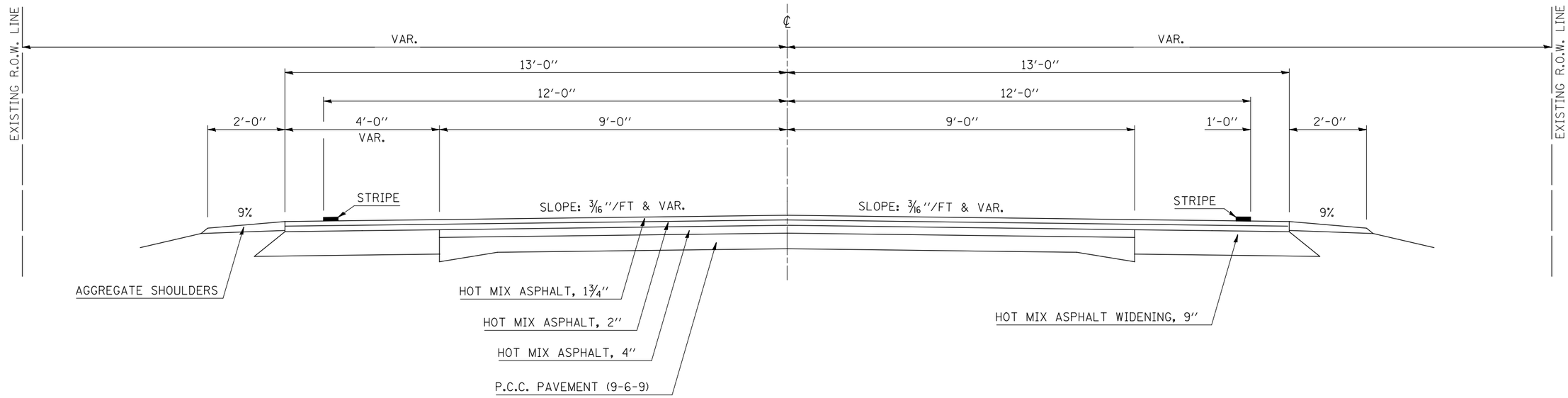
SCALE: N/A | SHEET NO. 5 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	10
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXISTING ROADWAY CROSS SECTION

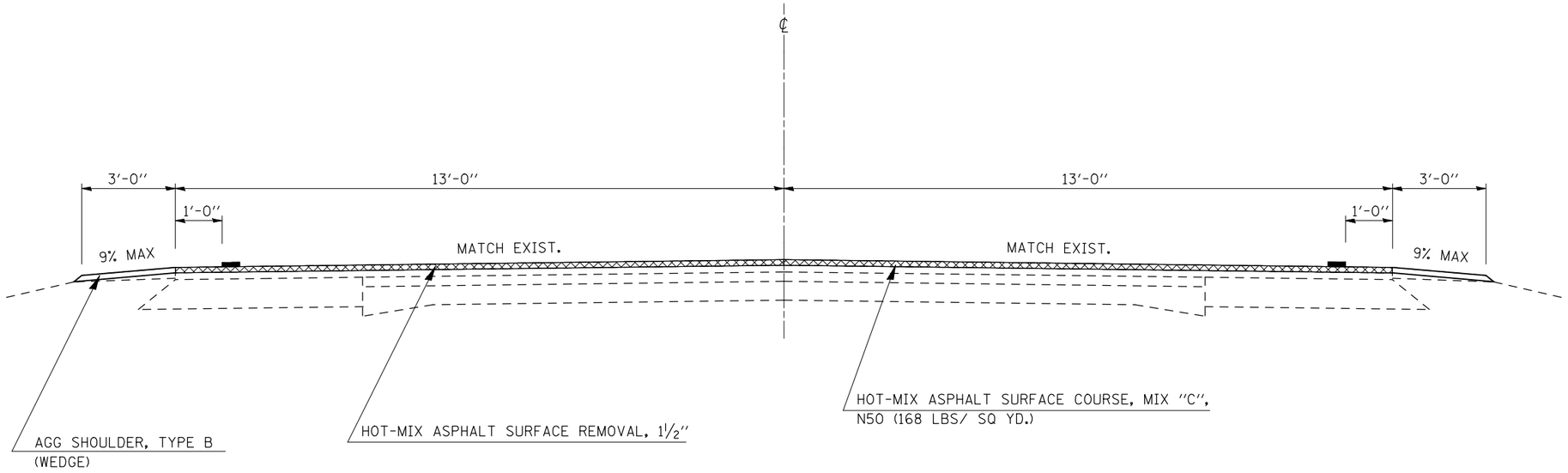
STA. 273+00.00 TO STA. 288+10.76
STA. 290+29.42 TO STA. 304+00.00

STA. 288+10.76 TO STA. 290+29.42 (EXIST. S.N. 074-009)



① PROPOSED TYPICAL SECTION

STA. 273+00 TO STA. 276+00 ②
②STA. 303+00 TO STA. 304+00



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		DRAWN - JMS	REVISED -
	PLOT SCALE = 40.0000 ′ / IN.	CHECKED - JMS	REVISED -
	PLOT DATE = 10/13/2009	DATE - 061109	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

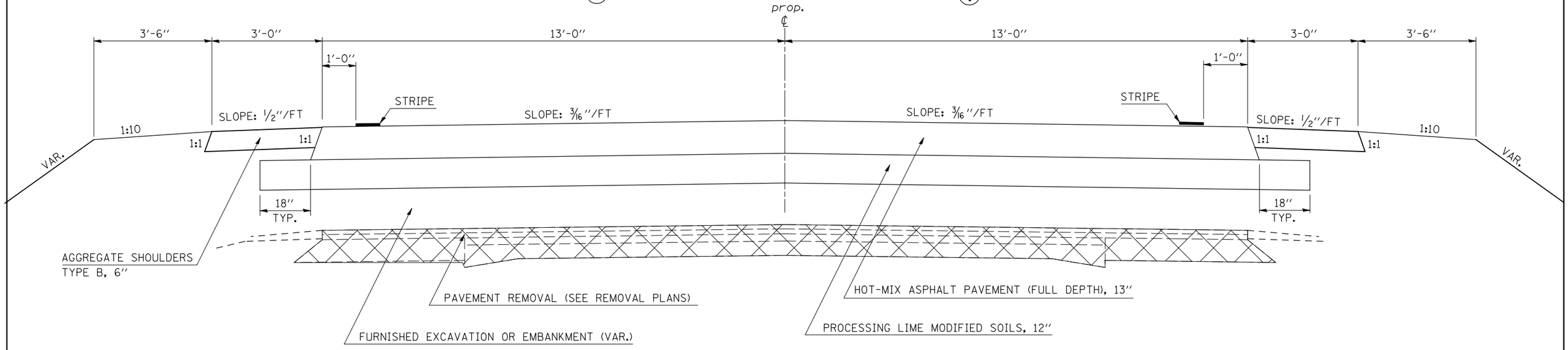
TYPICAL CROSS SECTIONS

SCALE: | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	11
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

(2) PROPOSED TYPICAL SECTION

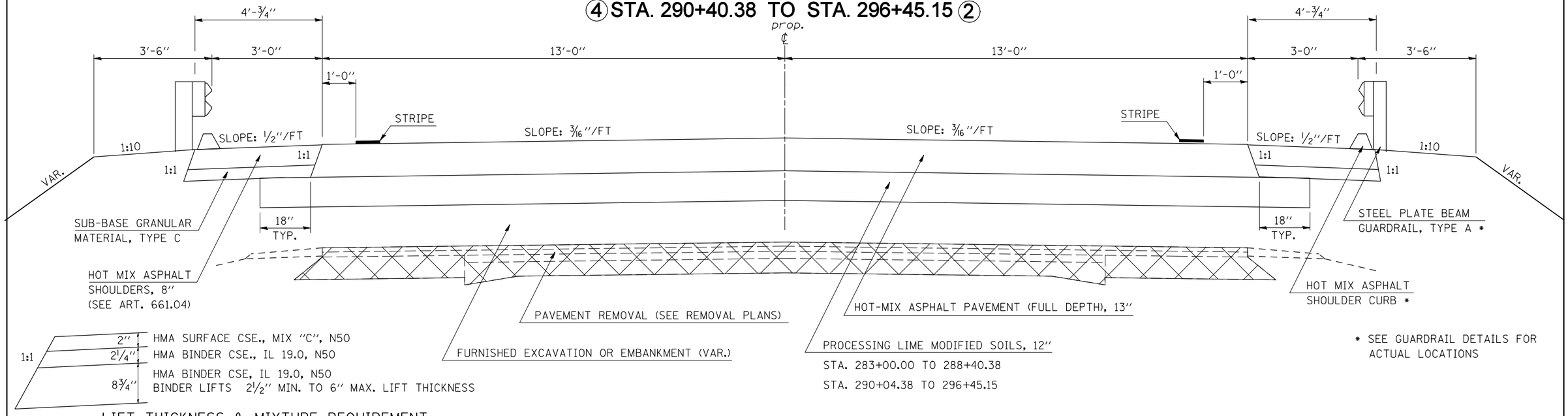
(1) STA. 276+00.00 TO STA. 283+00.00 (3)
(3) STA. 296+45.15 TO STA. 303+00.00 (1)



(3) PROPOSED TYPICAL SECTION

(2) STA. 283+00.00 TO STA. 288+04.38 (4)
(4) STA. 290+40.38 TO STA. 296+45.15 (2)

SEE STRUCTURE PLANS FOR
STA. 288+04.38 TO 288+40.38
STA. 290+04.38 TO 290+40.38



* SEE GUARDRAIL DETAILS FOR ACTUAL LOCATIONS

LIFT THICKNESS & MIXTURE REQUIREMENT

FILE NAME = c:\pw_work\PWIDOT\SHERERJM\dms86674\d570388-sht-typical.dgn	USER NAME = sherer.jm	DESIGNED - JMS	REVISED -
		DRAWN - JMS	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - JMS	REVISED -
	PLOT DATE = 10/13/2009	DATE - 061109	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

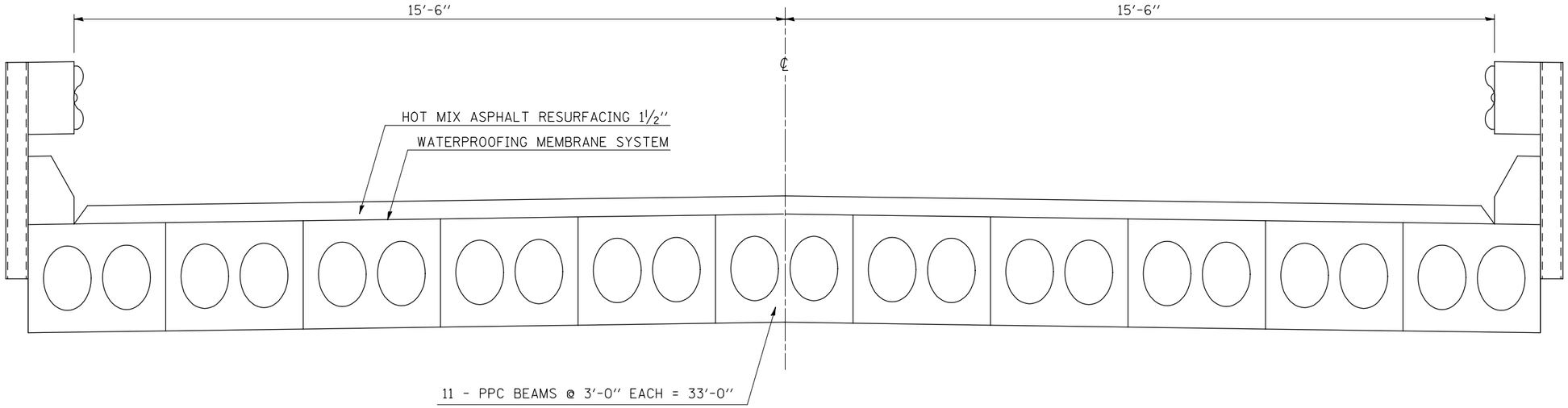
TYPICAL CROSS SECTIONS

SCALE: | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	12
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

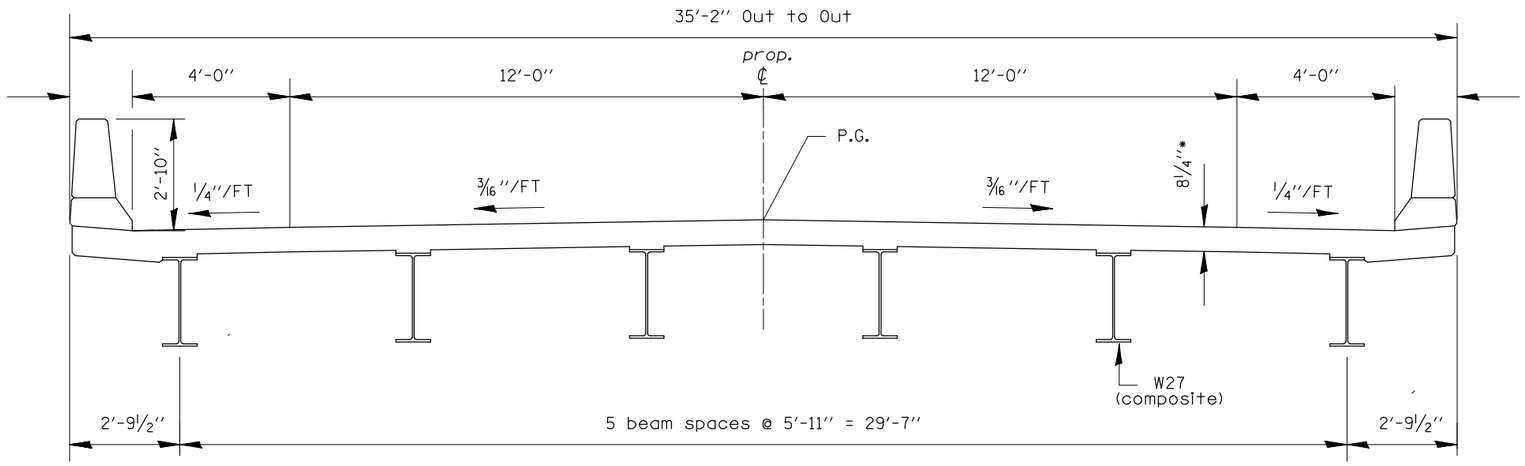
EXISTING BRIDGE CROSS SECTION

STA. 288+10.76 TO STA. 290+29.42
S.N. 074-009



④ PROPOSED TYPICAL SECTION

③ STA. 288+40.38 TO STA. 290+04.38 ③
SN 074-0086



* PRIOR TO DIAMOND GRINDING AND SURFACE TESTING OF BRIDGE SECTIONS.

FILE NAME = c:\pw_work\PWIDOT\SHERERJM\dms86674\d570388-sht-typical.dgn	USER NAME = shererjm	DESIGNED - JMS	REVISED -
		DRAWN - JMS	REVISED -
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	PLOT DATE = 10/13/2009	DATE - 061109	REVISED -

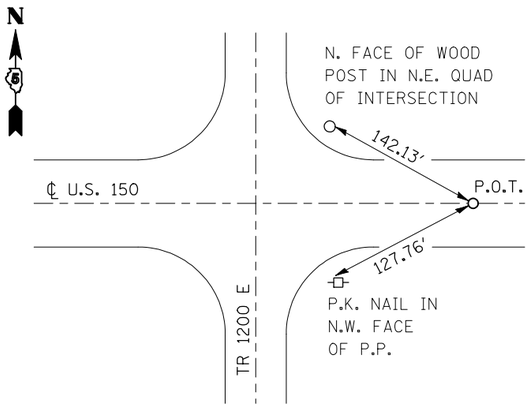
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

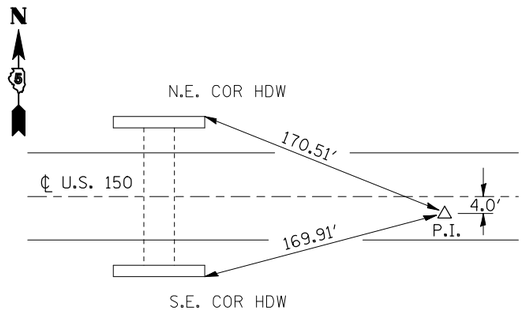
SCALE: | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	13
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

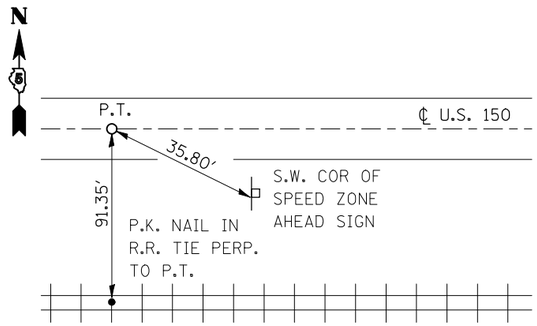
EXISTING P.O.T. STATION 266+33.87



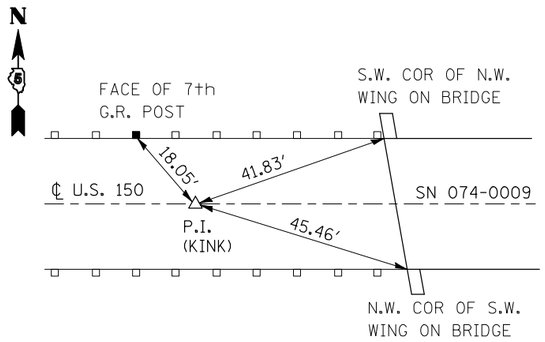
EXISTING P.I. STATION 276+75.36



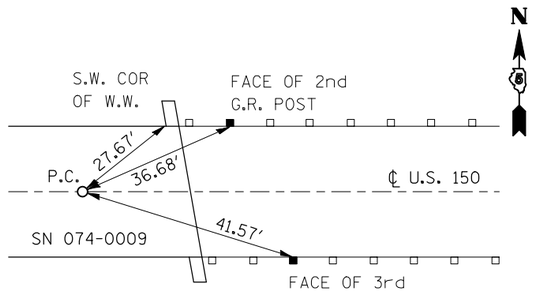
EXISTING P.T. STATION 279+90.12



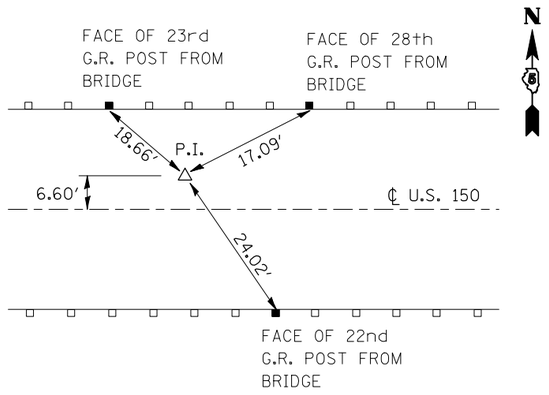
EXISTING P.I. KINK STATION 287+70.85



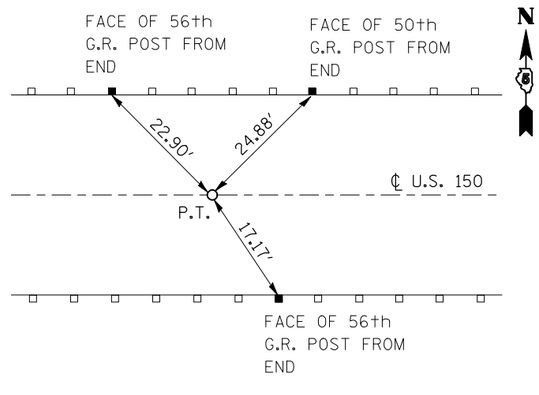
EXISTING P.C. STATION 290+04.11



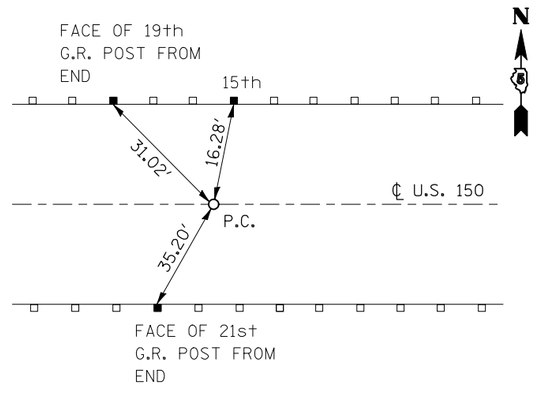
EXISTING P.I. STATION 291+82.62



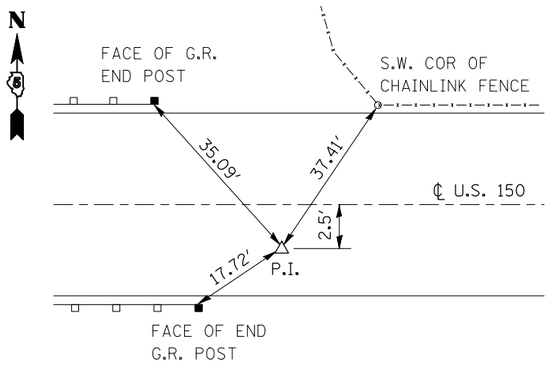
EXISTING P.T. STATION 293+61.14



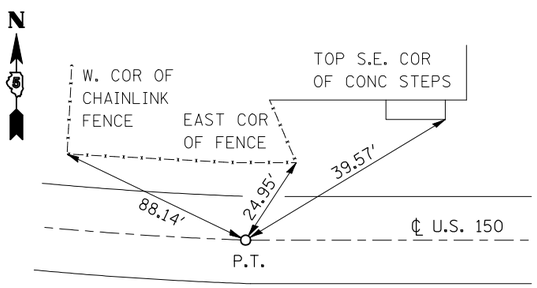
EXISTING P.C. STATION 296+02.89



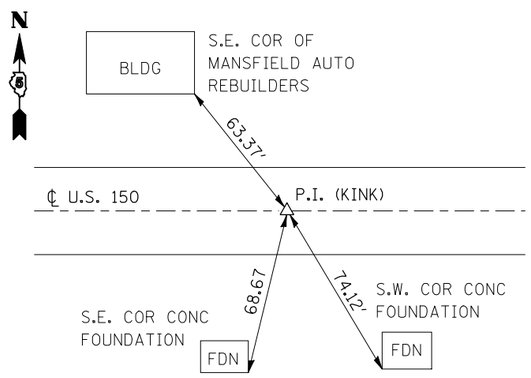
EXISTING P.I. STATION 297+18.38



EXISTING P.T. STATION 298+33.86



EXISTING P.I. KINK STATION 303+43.16



BM 4696-1 - CHISELED SQUARE ON EDGE OF 2' ROUND SIGNAL FDN FOR ABANDONED RAILROAD
STATION 286+79.00, 142.00' RT.
ELEVATION = 730.975

BM 4696-2 - CHISELED SQUARE ON FLAT TOP (SW) CORNER OF SOUTHWEST WINGWALL OF BRIDGE
STATION 288+13.00, 17.65' RT.
ELEVATION = 755.435

BM 4696-3 - CHISELED SQUARE ON FLAT TOP (NE COR) OF NORTHEAST WINGWALL OF BRIDGE
STATION 290+27.00, 17.80' LT.
ELEVATION = 755.560

BM 4696-4 - CHSELED SQUARE ON TOP HEADWALL FOR AN A.R. PIPE CULVERT
STATION 296+76.00, 21.35' RT.
ELEVATION = 727.365

FILE NAME = c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-ATB.dgn	USER NAME = shererjm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT CROSS TIES & BENCHMARKS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	14
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

	STATION	TO		STATION	20200100 EARTH EXCAVATION (CU YD)	EARTH EX ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	20400800 FURNISHED EXCAVATION (CU YD)
US 150								
LT	276+00.00		LT	288+87.17	7457.0	5592.8	5950.0	-357.3
RT	276+00.00		RT	288+87.17	558.0	418.5	16241.2	-15822.7
LT	289+57.17		LT	302+50.00	11990.0	8992.5	9927.2	-934.7
RT	289+57.17		RT	302+50.00	517.0	387.8	22552.2	-22164.5
				SUB-TOTAL =	20522.0	15391.5	54670.6	-39279.1
ALLEY RE-ALIGNMENT								
LT	0+38.00		LT	3+75.00	218.0	163.5	507.0	-343.5
RT	0+38.00		RT	3+75.00	81.0	60.8	336.0	-275.3
				SUB-TOTAL =	299.0	224.3	843.0	-618.8
				TOTAL =	20821.0	15615.8	55513.6	-39897.9
				USE =	20821.0	15616.0	55514.0	39898.0

*FURNISHED EXCAVATION = EARTH EXCAVATION X ADJUSTMENT FACTOR (0.75) - EMBANKMENT

SEE CROSS-SECTIONS FOR CUT AND FILL AREAS

30200650 PROCESSING MODIFIED SOIL 12"

STATION	STATION	LENGTH FT	WIDTH FT	AREA SQ YD	30201500 LIME TON
276+00.00	288+04.37	1204.37	29.0	3881.0	87.0
288+04.37	288+40.37	36.00	29.0	116.0	3.0
290+04.37	290+40.37	36.00	29.0	116.0	3.0
290+40.37	303+00.00	1259.63	29.0	4059.0	91.0
			TOTAL =	8172.0	184.0

31100300 SUB-BASE GRANULAR MATERIAL, TYPE A 4"

STATION	TO	STATION	LENGTH FT	WIDTH FT	AREA SQ YD
288+04.37		288+40.37	36.0	35.0	140.0
290+04.37		290+40.37	36.0	35.0	140.0
		TOTAL =			280.0

31102100 SUB-BASE GRANULAR MATERIAL, TYPE C 4"

	STATION	TO	STATION	LENGTH FT	WIDTH FT	AREA SQ YD
LT	283+08.38		288+04.37	496.0	4.27	236.0
RT	283+08.38		288+04.37	496.0	4.27	236.0
LT	290+40.37		295+44.38	504.0	4.27	240.0
RT	290+40.37		296+07.80	567.4	4.27	270.0
			TOTAL =			982.0

35100700 AGGREGATE BASE COURSE, TYPE A 8"

	STATION	TO	STATION	LENGTH FT	WIDTH FT	AREA SQ YD
LT	0+12.85		0+69.00	56.0	VAR	384.0
RT	200+00.00		200+25.00	25.0	VAR	153.0
LT	299+12.88		300+14.83	VAR	5.0	55.0
					TOTAL =	592.0

35101800 AGGREGATE BASE COURSE, TYPE B 6"

	STATION	LENGTH FT	WIDTH FT	AREA SQ YD
RT	301+25.80	VAR	3.0	26.0
			TOTAL =	26.0

FILE NAME = c:\pw_work\PWIDOT\SHERERJM\dms86674\70388planSheets.dgn	USER NAME = shererjm	DESIGNED - CMS	REVISED -	
		DRAWN - JRP	REVISED -	
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -	
	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF PLAN PAY ITEMS

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. 269+25.00 TO STA. 275+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	15
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

40200800 AGGREGATE SURFACE COURSE, TYPE B

	STATION	TO	STATION	LENGTH FT	WIDTH FT	THICKNESS INCHES	TONS
LT	0+69.00		3+75.00	306.0	VAR	6.0	201.0
LT	3+75.00		9+00.00	525.0	VAR	6.0	257.0
RT	200+25.00		205+11.60	486.6	12.0	6.0	195.0
RT	301+25.80		-	VAR	VAR	6.0	23.0
						TOTAL =	676.0

HOT-MIX ASPHALT CALCULATIONS

STATION	TO	STATION	LENGTH FT	WIDTH FT	AREA SQ YD	THICKNESS INCHES	40600100 BIT MATLS PR CT GAL	40600300 AGG PR CT TON	40603310 HMA SC "C" N50 TON	40701941 HMA PVT FD, 13" SQ YD
273+00.00		276+00.00	300.0	26.0	866.7	1.5	86.7	1.7	72.8	-
276+00.00		288+04.37	1204.4	26.0	3479.3	13.0	350.0	7.0	-	3479.0
290+40.37		303+00.00	1259.6	26.0	3638.9	13.0	363.9	7.3	-	3639.0
303+00.00		304+00.00	100.0	26.0	288.9	1.5	28.9	0.6	24.3	-
						TOTAL =	829.4	16.5	97.1	7118.0
						USE =	830.0	17.0	98.0	7118.0

INCIDENTAL HMA SURFACE

STATION		AREA SQ YD	4080010 BIT MATLS PR GALLON	4080030 AGG PR CT TON	40800050 INCD HMA TON
296+75.00	LT	384.0	38.4	0.8	43.0
299+51.00	LT	232.1	23.2	0.5	26.0
300+75.09	RT	153.0	15.3	0.3	17.1
301+25.80	RT	26.0	2.6	0.1	2.9
		TOTAL =	79.5	1.6	89.1
		USE=	80.0	2.0	89.0

48101200 AGGREGATE SHOULDERS, TYPE B

	STATION	TO	STATION	LENGTH FT	WIDTH FT	THICKNESS INCHES	TONS
LT/RT	273+00.00		276+00.00	300.0	3.0	1.5	45.0
LT/RT	303+00.00		304+00.00	100.0	3.0	1.5	15.0
						TOTAL =	60.0

48203029 HOT-MIX ASPHALT SHOULDERS, 8"

	STATION	TO	STATION	LENGTH FT	WIDTH FT	AREA SQ YD
LT	283+08.38		285+50.38	242.00	3.0	81.0
RT	283+08.38		285+50.38	242.0	3.0	81.0
LT	285+58.38		288+04.37	246.0	3.0	82.0
RT	285+58.38		288+04.37	246.0	3.0	82.0
LT	290+40.37		292+86.38	246.0	3.0	82.0
RT	290+40.37		292+86.38	246.0	3.0	82.0
LT	292+94.38		295+36.40	242.0	3.0	81.0
RT	292+94.38		295+36.40	242.0	3.0	81.0
RT	295+44.40		296+07.38	63.0	3.0	42.0
					TOTAL =		694.0

66101150 HOT-MIX ASPHALT SHOULDERS CURB

	STATION	TO	STATION	LENGTH FT
LT	283+08.38		285+50.38	242.0
RT	283+08.38		285+50.38	242.0
LT	285+58.38		288+04.37	246.0
RT	285+58.38		288+04.37	246.0
LT	290+40.37		292+86.38	246.0
RT	290+40.37		292+86.38	246.0
LT	292+94.38		295+36.40	242.0
RT	292+94.38		295+36.40	242.0
RT	295+44.40		296+07.38	63.0
			TOTAL =	2078.0

EXTRA SHOULDER MATERIAL TO CONSTRUCT THE HMA SHOULDER CURB SHALL NOT BE PAID FOR SEE ART. 661.04

48101500 AGGREGATE SHOULDERS, TYPE B 6"

	STATION	TO	STATION	LENGTH FT	WIDTH FT	THICKNESS INCHES	TONS
LT/RT	276+00.00		283+08.38	708.4	3.0	6.0	472.0
RT	296+45.15		299+04.70	259.5	3.0	6.0	87.0
LT	297+44.57		299+13.00	168.4	3.0	6.0	56.0
RT	299+94.70		300+84.20	89.5	3.0	6.0	30.0
LT	300+13.00		304+00.00	387.0	3.0	6.0	129.0
RT	301+74.00		304+00.00	226.0	3.0	6.0	75.0
LT	0+13.00		0+56.00	120.0	3.0	6.0	40.0
RT	0+13.00		0+56.00	70.0	3.0	6.0	23.0
						TOTAL =	912.0

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF PLAN PAY ITEMS

SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. 269+25.00 TO STA. 275+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	16
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

STATION	O/S	EACH
273+00.18	29.80' RT	1.0
283+00.00	51.20' RT	1.0
285+50.00	73.71' RT	1.0
289+09.24	77.31' RT	1.0
289+76.31	77.99' RT	1.0
294+50.00	82.74' RT	1.0
269+20.00	84.45' RT	1.0
300+08.78	88.35' RT	1.0
299+99.95	56.26' RT	1.0
	TOTAL =	9.0

CARE SHALL BE TAKEN NOT TO DISTURB ANY R.O.W. MARKERS NOT SHOWN ON THIS LIST. SHOULD THE CONTRTACTOR DISTURB ANY ADDITIONAL MARKERS, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

XZ193300 SURVEY MARKER, TYPE 1 (SPECIAL)

STATION	DESCR.	EACH
273+00.18	PC	1.0
274+21.01	PT	1.0
302+91.47	PC	1.0
303+88.57	PT	1.0
	TOTAL =	4.0

78001110 PAINT PAVEMENT MARKING LINE 4"

	STATION	TO	STATION	LENGTH FOOT	WHITE EDGE LINE FOOT	YELLOW CENTER LINE SKIP DASH FOOT	YELLOW NO PASSING ZONE FOOT
	273+00.00		304+00.00	3100.0	6200.0	1023.0	
LT	278+00.00		291+00.00	1300.0			1300.0
RT	287+90.00		299+50.00	1160.0			1160.0
				SUB-TOTAL =	6200.0	1023.0	2460.0
				TOTAL =	9683.0		

78001180 PAINT PAVEMENT MARKING LINE 24"

STATION	WHITE STOP BAR LENGTH FOOT
0+35.73	22.0
TOTAL =	22.0

RAISED REFLECTIVE PAVEMENT MARKERS

STATION	TO	STATION	LENGTH FOOT	78100100 RAISED REF PVT MKRS EACH	78100105 RRPM BRIDGE EACH	78300200 RRPM REM EACH
273+00.00		304+00.00	3100.00	36.0	3.0	36.0
			TOTAL =	36.0	3.0	36.0

ADDITIONAL SCHEDULE NOTES:

SEE G.N. Z0038 FOR INFORMATION CONCERNING PERMANENT BENCH MARKS

SEE SCHEDULES OF REMOVAL SHEET(S) 51-52

SEE SCHEDULES OF EROSION CONTROL SHEET(S) 59

SEE SCHEDULES OF DRAINAGE SHEET(S) 68

SEE GUARDRAIL DETAILS SHEET(S) 72

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		DRAWN - JRP	REVISED -
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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF PLAN PAY ITEMS

SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 269+25.00 TO STA. 275+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	17
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE SCHEDULES OF REMOVAL SHEET(S) 51-52

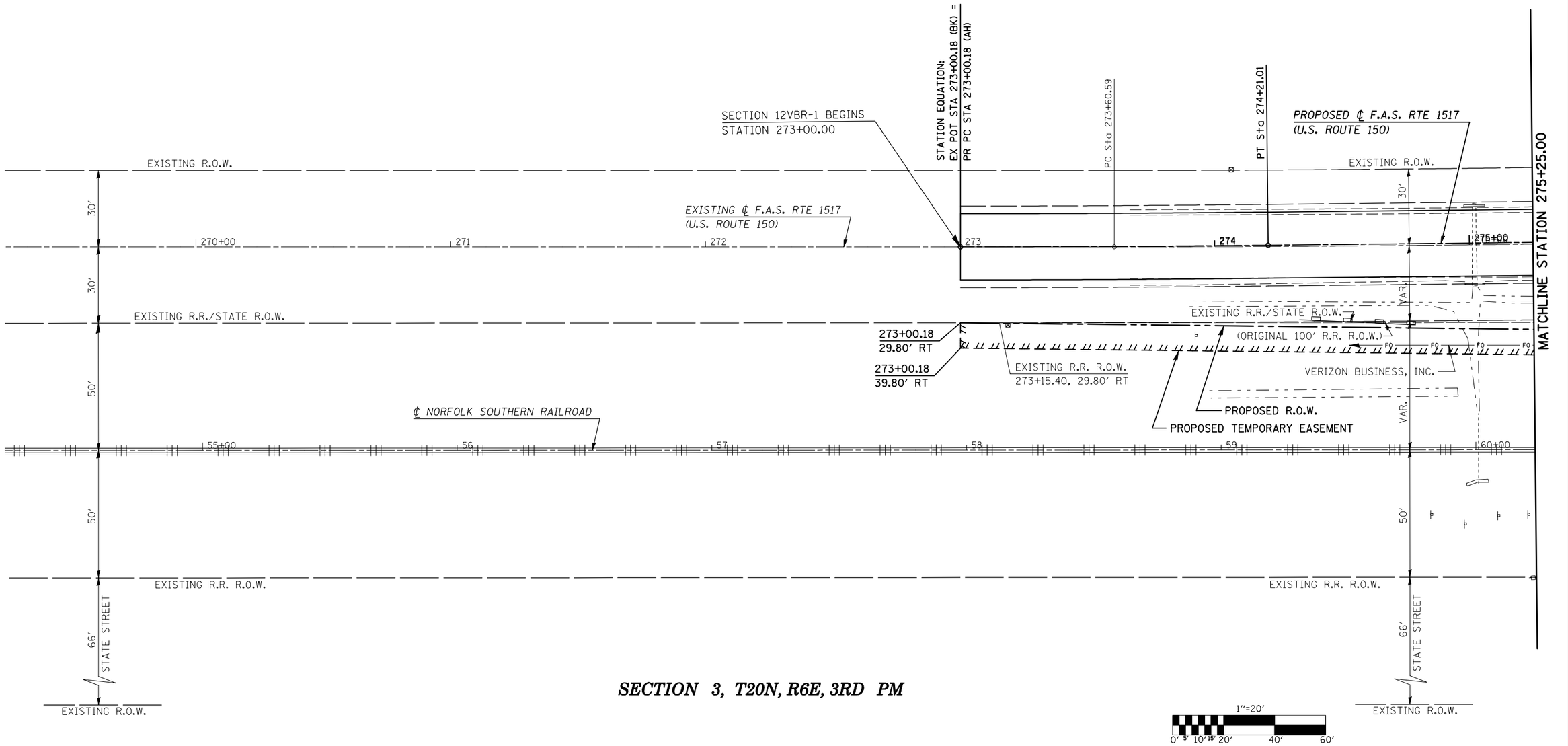
SEE SCHEDULES OF EROSION CONTROL SHEET(S) 59

SEE SCHEDULES OF DRAINAGE SHEET(S) 68

SEE GUARDRAIL DETAILS SHEET(S) 72

SECTION 3, T20N, R6E, 3RD PM

PROP. CURVE U.S. 150
PI STA. = 273+60.59
△ = 0° 36′ 13″ (LT)
D = 0° 29′ 58″
R = 11,470.00′
T = 60.41′
L = 120.83′
E = 0.16′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 273+00.18
P.T. STA = 274+21.01



SECTION 3, T20N, R6E, 3RD PM

1″=20′
0′ 5′ 10′ 15′ 20′ 40′ 60′

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (U.S. ROUTE 150)

SCALE: 1″ = 20′ | SHEET NO. 1 OF 12 SHEETS | STA. 269+25.00 TO STA. 275+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	18
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN

SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	

BY	DATE

PROFILE

SURVEYED	
PLOTTED	
CROSS SECT. CHECKED	
B.M. NOTED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	

BY	DATE

760
755
750
745
740
735
730
725
720
715
710
705
700
695

EXISTING ℄ PROFILE F.A.S. ROUTE 1517

EXISTING LEFT DITCH PROFILE

EXISTING RIGHT DITCH PROFILE

LEFT DITCH

RIGHT DITCH

	274+00		274+50		275+00
LEFT DITCH	728.11		727.91		727.74
RIGHT DITCH	727.72		727.70		726.85
	730.27	730.16	730.06	729.95	729.84	729.76

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		DRAWN -	REVISED -
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	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE (U.S. ROUTE 150)

SCALE: V=5 H=20 | SHEET NO. 2 OF 12 SHEETS | STA. 269+25.00 TO STA. 275+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	19
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE SCHEDULES OF REMOVAL SHEET(S) 51-52

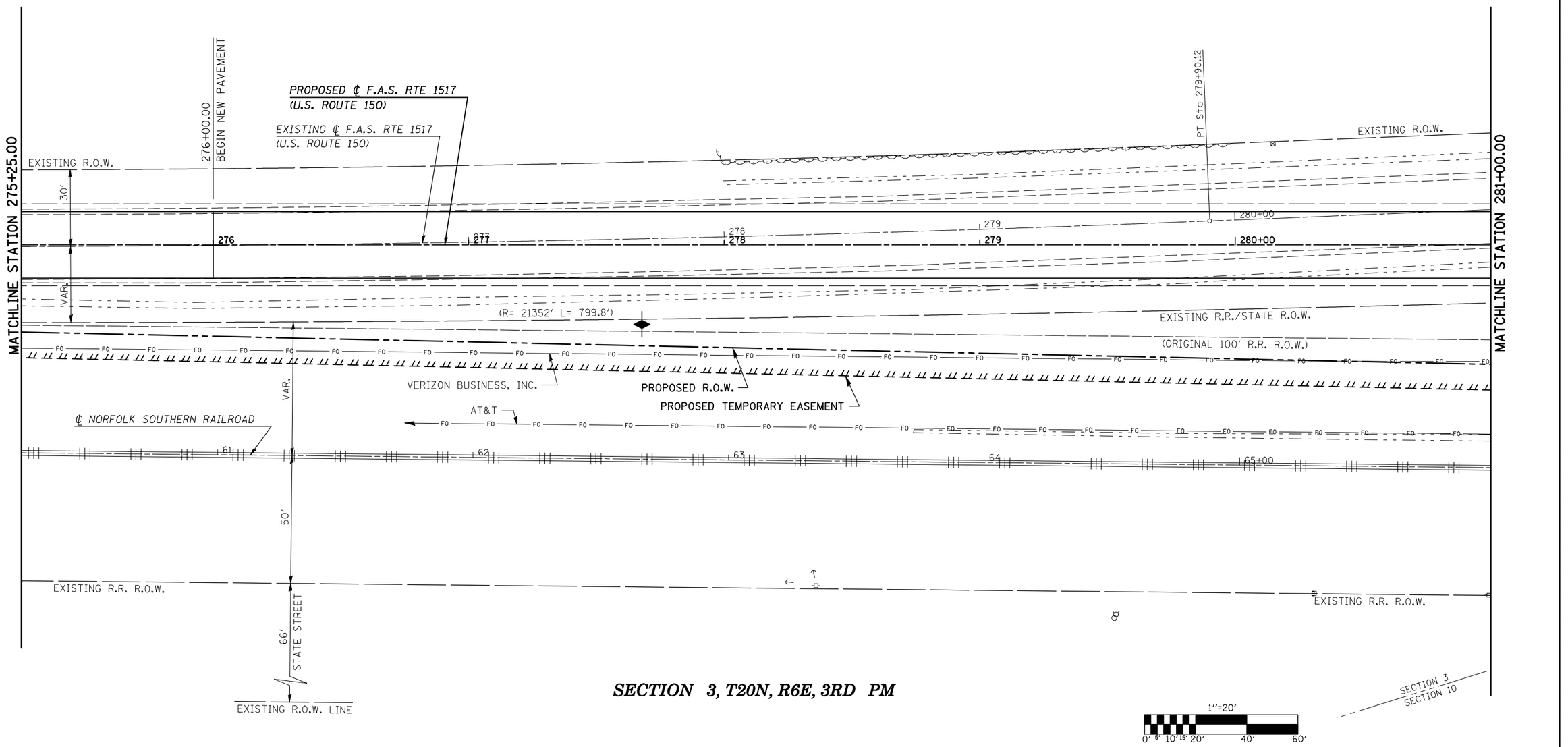
SEE SCHEDULES OF EROSION CONTROL SHEET(S) 59

SEE SCHEDULES OF DRAINAGE SHEET(S) 68

SEE GUARDRAIL DETAILS SHEET(S) 72

EXIST. CURVE US 150
PI STA. = 276+75.42
Δ = 2° 54′ 42″ (LT)
D = 0° 27′ 45″
R = 12,387.92′
T = 314.83′
L = 629.53′
E = 4.00′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 273+60.59
P.T. STA. = 279+90.12

SECTION 3, T20N, R6E, 3RD PM



SECTION 3, T20N, R6E, 3RD PM

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (U.S. ROUTE 150)

SCALE: 1″ = 20′ | SHEET NO. 3 OF 12 SHEETS | STA. 275+25.00 TO STA. 281+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	20
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

760
755
750
745
740
735
730
725
720
715
710
705
700
695

550.00'
V.C.
VPC 279+51.16
ELEV 731.60
PROPOSED ℄ PROFILE F.A.S. ROUTE 1517
EXISTING ℄ PROFILE F.A.S. ROUTE 1517
EXISTING LEFT DITCH PROFILE
EXISTING RIGHT DITCH PROFILE
PROPOSED RIGHT DITCH PROFILE
PROPOSED LEFT DITCH PROFILE

	275+50		276+00		276+50		277+00		277+50		278+00		278+50		279+00		279+50		280+00		280+50		281+00
LEFT DITCH	727.86	729.85	727.99	728.06	728.10	728.10	727.95	727.95	728.06	728.06	728.25	728.25	728.45	728.45	728.65	728.63	728.81	728.81	729.01	729.00	729.03	729.03	729.16	729.16
RIGHT DITCH	727.65	730.05	727.81	727.80	728.06	727.68	728.07	727.80	728.22	727.94	728.35	727.99	728.63	728.26	728.94	728.25	729.28	728.78	729.62	729.17	729.90	729.65	730.26	729.76
	730.24	730.44	730.64	730.74	730.84	730.91	730.96	731.01	731.07	731.12	731.17	731.19	731.21	731.26	731.31	731.37	731.42	731.47	731.47	731.50	731.52	731.54	731.57	731.57	731.63	731.61	731.71	731.64	731.83	731.67	731.99	731.70	732.17	731.76	732.40	731.85	732.65	731.94	732.95

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	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE (U.S. ROUTE 150)

SCALE: V=5 H=20 | SHEET NO. 4 OF 12 SHEETS | STA. 275+25.00 TO STA. 281+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	21
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE SCHEDULES OF REMOVAL SHEET(S) 51-52

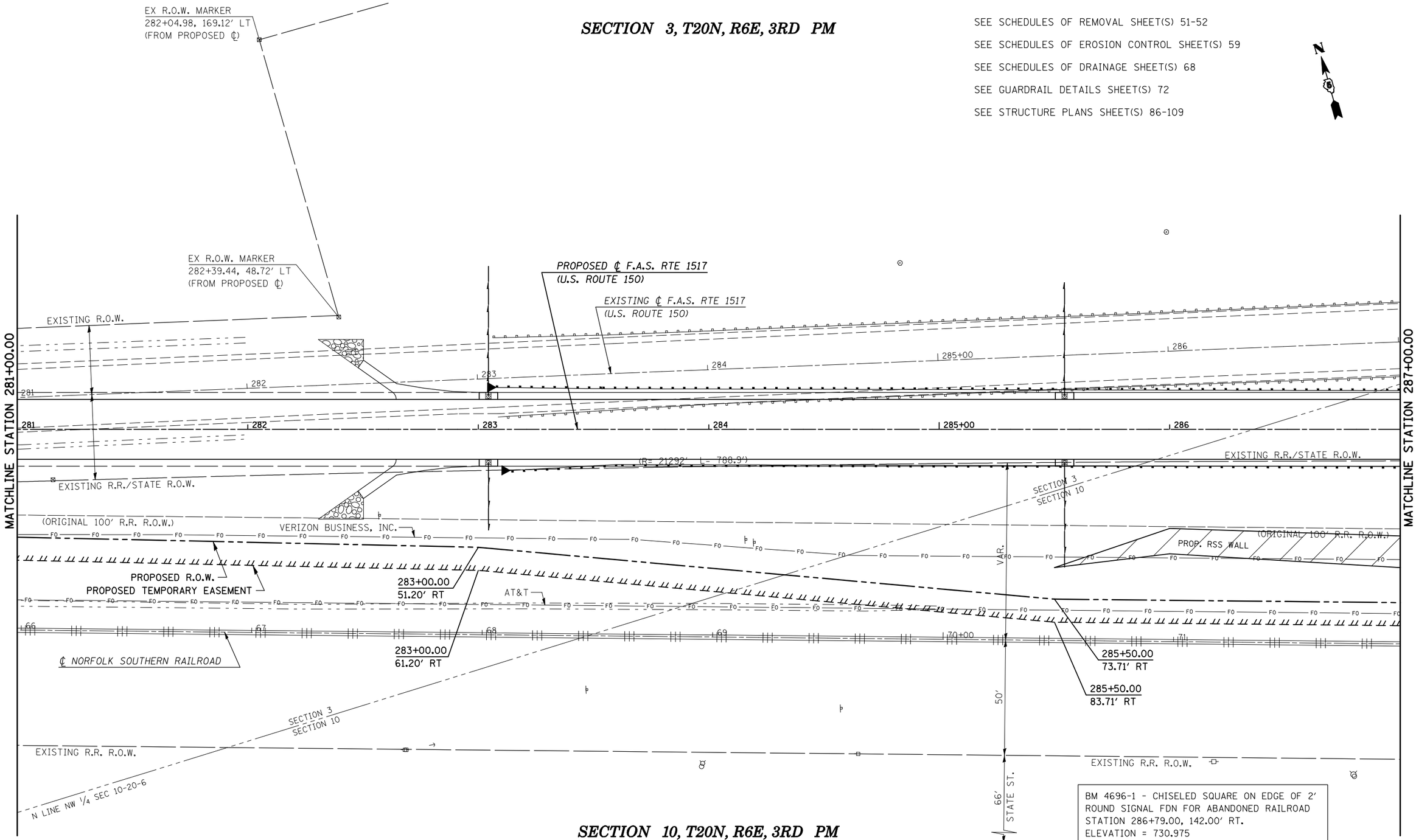
SEE SCHEDULES OF EROSION CONTROL SHEET(S) 59

SEE SCHEDULES OF DRAINAGE SHEET(S) 68

SEE GUARDRAIL DETAILS SHEET(S) 72

SEE STRUCTURE PLANS SHEET(S) 86-109

SECTION 3, T20N, R6E, 3RD PM



SECTION 10, T20N, R6E, 3RD PM

1"=20'

0' 5' 10' 15' 20' 40' 60'

BM 4696-1 - CHISELED SQUARE ON EDGE OF 2' ROUND SIGNAL FDN FOR ABANDONED RAILROAD STATION 286+79.00, 142.00' RT.
ELEVATION = 730.975

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (U.S. ROUTE 150)

SCALE: 1" = 20' | SHEET NO. 5 OF 12 SHEETS | STA. 281+00.00 TO STA. 287+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	22
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

760
755
750
745
740
735
730
725
720
715
710
705
700
695

550.00'
V.C.

PROPOSED ℄ PROFILE F.A.S. ROUTE 1517

EXISTING ℄ PROFILE F.A.S. ROUTE 1517

VPT 285+01.16
ELEV 746.07

VPC 285+47.00
ELEV 748.36

750.00'
V.C.

EXISTING RIGHT DITCH PROFILE

+0.26%

+5.00%

VPI STA 282+26.16
ELEVATION 732.32

PROPOSED RIGHT DITCH PROFILE

EXISTING LEFT DITCH PROFILE

PROPOSED LEFT DITCH PROFILE

	281+00	281+50	282+00	282+50	283+00	283+50	284+00	284+50	285+00	285+50	286+00	286+50	287+00
LEFT DITCH	729.74 / 729.51		728.85 / 729.77		728.44 / 728.32		726.36 / 726.36		725.11 / 725.82		725.82 / 726.51		725.31 / 726.29		724.62 / 725.54		724.82 / 725.87		726.37 / 726.95		726.62 / 727.21		727.84 / 728.19
RIGHT DITCH	730.70 / 729.68		730.55 / 729.96		730.65 / 730.29		731.08 / 730.51		730.99 / 730.46		730.67 / 729.49		729.98 / 729.60		729.40 / 728.88		729.07 / 727.84		728.98 / 727.85		729.14 / 727.28		728.94 / 727.04
	731.94 / 732.95	732.03 / 733.27	732.12 / 733.63	732.25 / 734.03	732.40 / 734.46	732.55 / 734.92	732.85 / 735.42	733.14 / 735.95	733.50 / 736.52	733.91 / 737.12	734.33 / 737.76	734.87 / 738.43	735.40 / 739.13	735.99 / 739.87	736.63 / 740.64	737.27 / 741.45	738.01 / 742.30	738.74 / 743.17	739.55 / 744.08	740.42 / 745.03	741.30 / 746.01	742.28 / 747.01	743.27 / 748.01	744.25 / 749.00	745.22 / 749.94	746.20 / 750.82	747.22 / 751.66	748.23 / 752.43	749.21 / 753.16	750.16 / 753.83	751.10 / 754.45

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		DRAWN -	REVISED -
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	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE (U.S. ROUTE 150)

SCALE: V=5 H=20 | SHEET NO. 6 OF 12 SHEETS | STA. 281+00.00 TO STA. 287+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	23
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 3, T20N, R6E, 3RD PM

SEE SCHEDULES OF REMOVAL SHEET(S) 51-52
SEE SCHEDULES OF EROSION CONTROL SHEET(S) 59
SEE SCHEDULES OF DRAINAGE SHEET(S) 68
SEE GUARDRAIL DETAILS SHEET(S) 72
SEE STRUCTURE PLANS SHEET(S) 86-109

PROPOSED PERMANENT EASEMENT

EXISTING R.R. R.O.W.

EXISTING S.N. 074-0009
PPC DECK BEAMS
STATION 289+23

EX STATION 289+22.19 (U.S. 150) =
EX STATION 10+00 (RAILROAD)

33'

SALT SHED

EQUIPMENT SHED

N 1/4 COR SEC 10-20-6
IP W/DOH CAP SET

T 20 N
3 3
10 10
R 6 E

EXIST. CURVE U.S. 150
PI STA. = 291+82.95
Δ = 8° 27' 16" (RT)
D = 2° 22' 05"
R = 2,419.60'
T = 178.84'
L = 357.03'
E = 6.60'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 290+04.11
P.T. STA. = 293+61.14

SECTION 3
SECTION 10

NE 1/4 SECTION LINE
NW 1/4 SECTION LINE

PROPOSED S.N. 074-0086
CONTINUOUS STEEL BRIDGE
3 SPANS
℄ STATION 289+22.38
BK. TO BK. ABUTMENT = 164'
SKEW 9°-42'-41" RT FORWARD

PI Sta 287+70.85 (KINK)

PC Sta 290+04.11

6°-55'-48"

179°-31'-37"

9°-42'-41"

N LINE NW 1/4 SEC 10-20-6

289+57.16
33.91' LT

℄ Exist R.R.
Sta 289+29.48

290+16.28, 44.14' LT
(FROM PROPOSED ℄)

Bk of E Abut
Sta 290+04.38

290+21.52, 13.56' LT
(FROM PROPOSED ℄)

EXISTING ℄ F.A.S. RTE 1517
(U.S. ROUTE 150)

PROPOSED ℄ F.A.S. RTE 1517
(U.S. ROUTE 150)

NORTH LINE VACATED DEPOT STREET

30'

MATCHLINE STATION 287+00.00

MATCHLINE STATION 293+00.00

287 288 289 290+00 291 292

APPROACH PAVEMENT

SEE STND 420401 FLEXIBLE CONNECTOR

EXISTING R.R./STATE R.O.W.

35'-2" O. to O.

℄ Pier 1
Sta 288+91.38

℄ Pier 2
Sta 289+53.38

+04.38 +10.38

+34.38 +40.38

EXISTING R.R. PROPERTY LINE

Bk of W Abut
Sta 288+40.38

288+98.47
14.41' RT

290+31.82, 46.54' RT
(FROM PROPOSED ℄)

VAR.

(ORIGINAL 100' R.R. R.O.W.)

℄ Prop R.R.
Sta 289+15.28

14'

SOUTH LINE VACATED DEPOT STREET
(ORIGINAL 100' R.R. R.O.W.)

80'

PROP. RSS WALL

VERIZON BUSINESS, INC.

289+03.75
45.26' RT

289+70.82
45.93' RT

290+26.67, 16.49' RT
(FROM PROPOSED ℄)

50'

AT&T

BURIED AT&T MANHOLE

289+44.49
87.67' RT

289+76.31
77.99' RT

℄ R.R. (NO TRACKS)

℄ NORFOLK SOUTHERN RAILROAD

POT Sta 73+72.62
INACTIVE RAILROAD

289+09.24
77.31' RT

PROPOSED R.O.W.

PROPOSED TEMPORARY EASEMENT

PROPOSED PERMANENT EASEMENT

EXISTING SERVICE ROAD
TO BE REMOVED

BLDG

289+45.86, 95.68' RT
(RR ℄'s INTERSECT)

66' STATE ST.

EXISTING R.O.W.

EXISTING R.R. R.O.W.

BM 4696-2 - CHISELED SQUARE ON FLAT TOP (SW COR) OF SOUTHWEST WINGWALL OF BRIDGE STATION 288+13.00, 17.65' RT.
ELEVATION = 755.435

BM 4696-3 - CHISELED SQUARE ON FLAT TOP (NE COR) OF NORTHEAST WINGWALL OF BRIDGE STATION 290+27.00, 17.80' LT.
ELEVATION = 755.560

SECTION 10, T20N, R6E, 3RD PM

1"=20'
0' 5' 10' 15' 20' 40' 60'

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (U.S. ROUTE 150)

SCALE: 1" = 20' | SHEET NO. 7 OF 12 SHEETS | STA. 287+00.00 TO STA. 293+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	24
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

VPI STA 289+22.00
ELEVATION 767.11
+5.00%
-5.00%

PROPOSED ℄ PROFILE F.A.S. ROUTE 1517
EXISTING ℄ PROFILE F.A.S. ROUTE 1517

750.00'
V.C.

VPT 292+97.00
ELEV 746.36

EXISTING RIGHT DITCH PROFILE
PROPOSED LEFT DITCH PROFILE
EXISTING LEFT DITCH PROFILE
PROPOSED RIGHT DITCH PROFILE

760 755 750 745 740 735 730 725 720 715 710 705 700 695

	287+00	287+50	288+00	288+50	289+00	289+50	290+00	290+50	291+00	291+50	292+00	292+50	293+00
EX LOW CHORD			753.00	753.37	753.68	753.86	754.01	754.01	754.01	753.86	753.68	753.37	753.00
EX OPENING			750.68	740.74	731.31	728.25	729.13	730.90	728.61	728.02	732.13	741.37	750.61
LEFT DITCH	728.17 728.56	724.75 728.20	726.50 727.61	726.63 726.95	724.95 725.92	724.82 725.76	724.51 726.37	724.26 724.93	724.28 724.65	724.17 724.34			
RIGHT DITCH	728.40 726.50	727.85 727.01	727.83 726.68	727.55 727.55	726.99 727.24	726.41 726.87	725.65 726.15	725.06 726.15	724.49 725.78	724.22 725.42			
	751.10 754.45	751.90 755.02	752.71 755.53	753.40 755.99	753.99 756.39	754.57 756.74	755.12 757.04	755.50 757.29	755.79 757.48	755.98 757.62	756.11 757.70	756.17 757.74	756.10 757.71	755.96 757.64	755.76 757.51	755.46 757.33	755.09 757.10	754.53 756.81	753.90 756.47	753.25 756.07	752.61 755.62	751.75 755.12	750.90 754.57	750.02 753.96	749.11 753.30	748.20 752.58	747.21 751.82	746.22 751.00	745.23 750.12	744.22 749.19	743.22 748.21

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	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE (U.S. ROUTE 150)

SCALE: V=5 H=20 | SHEET NO. 8 OF 12 SHEETS | STA. 287+00.00 TO STA. 293+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	25
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE SCHEDULES OF REMOVAL SHEET(S) 51-52

SEE SCHEDULES OF EROSION CONTROL SHEET(S) 59

SEE SCHEDULES OF DRAINAGE SHEET(S) 68

SEE GUARDRAIL DETAILS SHEET(S) 72

EXIST. CURVE U.S. 150
PI STA. = 297+18.45
Δ = 4° 57′ 27″ (LT)
D = 2° 08′ 47″
R = 2,669.42′
T = 115.56′
L = 230.97′
E = 2.50′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 296+02.89
P.T. STA. = 298+33.86

SECTION 10, T20N, R6E, 3RD PM

FOR PROPOSED ALLEY IMPROVEMENT INFORMATION SEE SHEET NO. 31-33

MATCHLINE STATION 293+00.00

MATCHLINE STATION 299+00.00

EXISTING ℄ F.A.S. RTE 1517 (U.S. ROUTE 150)

PROPOSED ℄ F.A.S. RTE 1517 (U.S. ROUTE 150)

PT Sta 293+61.14

✳ STATION/OFFSET FROM PROPOSED ℄ U.S. RTE 150

STATION 296+75.00 (PROP. U.S. 150) = STATION 0+00.00 (PROP. ALLEY)

STATION 297+29.00 (U.S. 150) = STATION 0+00.00 (EXIST. ALLEY)

+87.00 ✳ 119.14′ LT

+63.00 ✳ 69.0′ LT

+66.73 ✳ 13.0′ LT

+36.46 ✳ 27.96′ LT

+03.22 ✳ 40.25′ LT

+44.57 ✳ 13.0′ LT

2CC 45′ - 170′ 11′ OS

2CC 45′ - 200′ 12.5′ OS

PC Sta 296+02.89

PT Sta 298+33.86

ALLEY

EXISTING R.O.W.

EXISTING R.O.W.

NORTH LINE VACATED DEPOT STREET

90°

293 294 295+00 296 297 298

EXISTING R.R. PROPERTY LINE

EXISTING R.R. R.O.W. +29.20 ✳ 38.00′ RT

EXIST. R.O.W. LINE (TO BE VACATED)

VERIZON BUSINESS, INC.

SOUTH LINE VACATED DEPOT STREET (ORIGINAL 100′ R.R. R.O.W.)

EXISTING R.O.W.

204 205+00 203 202 201

PT PRC

AT&T

℄ R.R. (NO TRACKS)

℄ NORFOLK SOUTHERN RAILROAD

294+50.00 82.74′ RT

294+50.00 92.74′ RT

PROPOSED R.O.W.

PROPOSED TEMPORARY EASEMENT

℄ PROPOSED SERVICE ROAD

296+20.00 84.27′ RT

296+20.00 93.85′ RT

℄ NORFOLK SOUTHERN RAILROAD

EXISTING SERVICE ROAD TO BE REMOVED

EXISTING R.R. R.O.W.

EXISTING R.R. R.O.W.

PROP. CURVE 3 (SERVICE RD)
PI STA. = 203+99.11
Δ = 5° 54′ 45″ (LT)
D = 2° 37′ 35″
R = 2,181.50′
T = 112.66′
L = 225.12′
E = 2.91′
P.R. . STA. = 202+86.46
P.T. STA. = 205+11.57

PROP. CURVE 2 (SERVICE RD)
PI STA. = 201+80.95
Δ = 0° 29′ 10″ (RT)
D = 0° 13′ 49″
R = 24,873.69′
T = 105.50′
L = 211.01′
E = 0.22′
P.C.C. STA. = 200+75.45
P.R.C. STA. = 202+86.46

BM 4696-4 - CHISELED SQUARE ON TOP HEADWALL FOR AN A.R. BOX CULVERT STATION 296+76.00, 21.35′ RT. ELEVATION = 727.365

INCIDENTAL HMA SURFACING

SECTION 10, T20N, R6E, 3RD PM

1″=20′

0′ 5′ 10′ 15′ 20′ 40′ 60′

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (U.S. ROUTE 150)

SCALE: 1″ = 20′ | SHEET NO. 9 OF 12 SHEETS | STA. 293+00.00 TO STA. 299+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	26
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

760
755
750
745
740
735
730
725
720
715
710
705
700
695

PROPOSED ℄ PROFILE F.A.S. ROUTE 1517
EXISTING ℄ PROFILE F.A.S. ROUTE 1517
VPC 295+01.50
ELEV 738.14
450.00'
V.C.
℄ ALLEY STA. 297+29
PROP. ELEV. 729.45
EXIST. ELEV. 727.47
5.00%
-0.32%
EXISTING RIGHT DITCH PROFILE
EXISTING LEFT DITCH PROFILE
PROPOSED LEFT DITCH PROFILE
PROPOSED RIGHT DITCH PROFILE
VPI STA 297+26.50
ELEVATION 726.89

	293+00	293+50	294+00	294+50	295+00	295+50	296+00	296+50	297+00	297+50	298+00	298+50	299+00
LEFT DITCH	723.89 / 724.87	724.10 / 724.84	723.26 / 723.95	723.37 / 723.85	722.97 / 723.25	722.91 / 723.30	722.78 / 724.14	724.53 / 726.00	726.59 / 726.18	726.41 / 725.93	726.22 / 725.53	726.12
RIGHT DITCH	723.99 / 725.05	723.73 / 724.69	723.50 / 724.33	723.22 / 723.98	723.11 / 723.03	723.81 / 723.64	724.44 / 723.60	725.43 / 723.72	725.67 / 723.76	725.99 / 723.80	726.05 / 723.83	725.83
	743.22 / 748.21	742.24 / 747.21	741.27 / 746.21	740.29 / 745.21	739.32 / 744.21	738.34 / 743.21	737.38 / 742.21	736.41 / 741.21	735.49 / 740.21	734.62 / 739.21	733.75 / 738.21	732.99 / 737.23	732.23 / 736.29	731.53 / 735.39	730.89 / 734.53	730.24 / 733.72	729.69 / 732.94	729.16 / 732.21	728.66 / 731.52	728.23 / 730.87	727.85 / 730.26	727.59 / 729.70	727.37 / 729.17	727.18 / 728.69	726.99 / 728.25	726.80 / 727.85	726.67 / 727.49	726.54 / 727.17	726.41 / 726.90	726.30 / 726.66	726.27 / 726.47

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	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE (U.S. ROUTE 150)

SCALE: V=5 H=20 | SHEET NO. 10 OF 12 SHEETS | STA. 293+00.00 TO STA. 299+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	27
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

INCIDENTAL HMA SURFACING

SECTION 10, T20N, R6E, 3RD PM

VILLAGE OF MANSFIELD

PROP. CURVE U.S. 150
PI STA. = 303+40.02
Δ = 0° 29′ 06″ (RT)
D = 0° 29′ 58″
R = 11,470.00′
T = 48.55′
L = 97.10′
E = 0.10′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 302+91.47
P.T. STA = 303+88.57

N

WEST STREET
105
EXISTING R.O.W.
66
GRIGGS STREET
66′
STATION 299+51.00 (U.S. 150) =
STATION 500+00.00 (WEST STREET)
EXISTING R.O.W.
PROPOSED ℄ F.A.S. RTE 1517
(U.S. ROUTE 150)
EXISTING ℄ F.A.S. RTE 1517
(U.S. ROUTE 150)
PC Sta 302+91.47
303+00.00
END NEW PAVEMENT
PI Sta 303+43.16 (KINK)
STATION EQUATION:
PR PT STA 303+88.57 (BK) =
EX POT STA 303+91.71 (AH)
WASHINGTON STREET
EXISTING R.O.W.
EXISTING R.O.W.
179°-46′-11″
MATCHLINE STATION 299+00.00
299
300+00
301
302
303
304
90°-42′-55.4″
SECTION 12VBR-1 ENDS
STATION 304+00.00
EXISTING R.R. R.O.W.
STATION 300+75.09, 38.88′ RT (PROP. U.S. 150) =
STATION 200+00.00 (PROP. SERVICE ROAD)
+04.7
3′ RT
+94.7
3′ RT
+03.27 ✳
67.00′ RT
PC
25.5′ R
30′ R
+64.69 ✳
46.62′ RT
+64.74 ✳
48.97′ RT
30′ R
50′
50′
66′
26′
300+00.00
56.26′ RT
✳ STATION/OFFSET FROM
PROPOSED ℄ U.S. RTE 150
PROPOSED R.O.W.
300+08.89
87.75′ RT
+33.78 ✳
79.58′ RT
℄ NORFOLK SOUTHERN RAILROAD
299+31.30, 55.57′ RT
(FROM PROPOSED ℄)
299+23.02, 25.49′ RT
(FROM PROPOSED ℄)
AT&T
℄ NORFOLK SOUTHERN RAILROAD
PROP. CURVE 1 (SERVICE RD)
PI STA. = 200+58.33
Δ = 90° 52′ 07″ (RT)
D = 190° 59′ 09″
R = 30.00′
T = 30.46′
L = 47.58′
E = 12.75′
P.C. STA. = 200+27.87
P.C.C. STA. = 200+75.45
VERIZON BUSINESS, INC.
EXISTING R.R. R.O.W.
30′
80′
100′
EXISTING R.R. R.O.W.

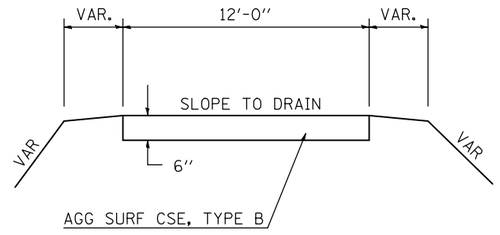
SEE SCHEDULES OF REMOVAL SHEET(S) 51-52

SEE SCHEDULES OF EROSION CONTROL SHEET(S) 59

SEE SCHEDULES OF DRAINAGE SHEET(S) 68

SEE GUARDRAIL DETAILS SHEET(S) 72

PROPOSED SERVICE ROAD
STA 200+25 TO STA 205+11.60



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0′ 5′ 10′ 15′ 20′ 40′ 60′

SECTION 10, T20N, R6E, 3RD PM

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (U.S. ROUTE 150)

SCALE: 1″ = 20′ | SHEET NO. 11 OF 12 SHEETS | STA. 299+00.00 TO STA. 305+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	28
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

760
755
750
745
740
735
730
725
720
715
710
705
700
695

450.00'
V.C.

VPT 299+51.50
ELEV 726.17

PROPOSED ℄ PROFILE F.A.S. ROUTE 1517

EXISTING ℄ PROFILE F.A.S. ROUTE 1517

EXISTING RIGHT DITCH PROFILE

EXISTING LEFT DITCH PROFILE

LEFT DITCH 725.94 724.62 724.09 723.85 723.93 724.91 724.74

RIGHT DITCH 725.89 725.45 725.32 725.01 724.20 723.88 724.21

726.27 **726.47** 726.23 **726.32** 726.19 **726.21** 726.14 **726.14** 726.08 **726.07** 726.01 **726.01** 725.95 725.88 725.77 725.72 725.67 725.62 725.57 725.52 725.46 725.41 725.36 725.33 725.31

299+00 299+50 300+00 300+50 301+00 301+50 302+00 302+50

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	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

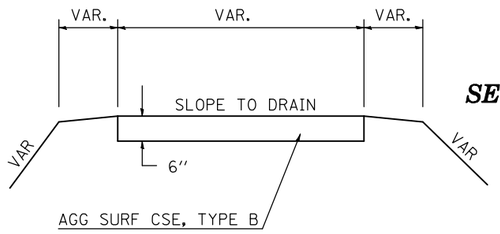
PROFILE (U.S. ROUTE 150)

SCALE: V=5 H=20 | SHEET NO. 12 OF 12 SHEETS | STA. 299+00.00 TO STA. 305+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	29
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROPOSED ALLEY RE-ALINGMENT

STA. 0+69 TO 3+75



INCIDENTAL HMA SURFACING

* STATION/OFFSET FROM ℄ PROPOSED ALLEY

SECTION 10, T20N, R6E, 3RD PM

SECTION 3, T20N, R6E, 3RD PM

SECTION 10
SECTION 3

PROP. CURVE - ALLEY
PI STA. = 2+09.87
Δ = 15° 13′ 13″ (LT)
D = 19° 05′ 55″
R = 300.00′
T = 40.08′
L = 79.69′
E = 2.67′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 1+69.78
P.T. STA = 2+49.48

EXIST. CURVE ALLEY
PI STA. = 3+98.00
Δ = 88° 15′ 17″ (LT)
D = 100° 31′ 08″
R = 57.00′
T = 55.29′
L = 87.80′
E = 22.41′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 3+42.71
P.T. STA. = 4+30.51

1″=20′
0′ 5′ 10′ 15′ 20′ 40′ 60′

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	PLOT DATE = 10/13/2009	DATE - 04-07-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (ALLEY)

SCALE: 1″ = 20′ | SHEET NO. 1 OF 4 SHEETS | STA. 0+00.00 TO STA. 6+20.00

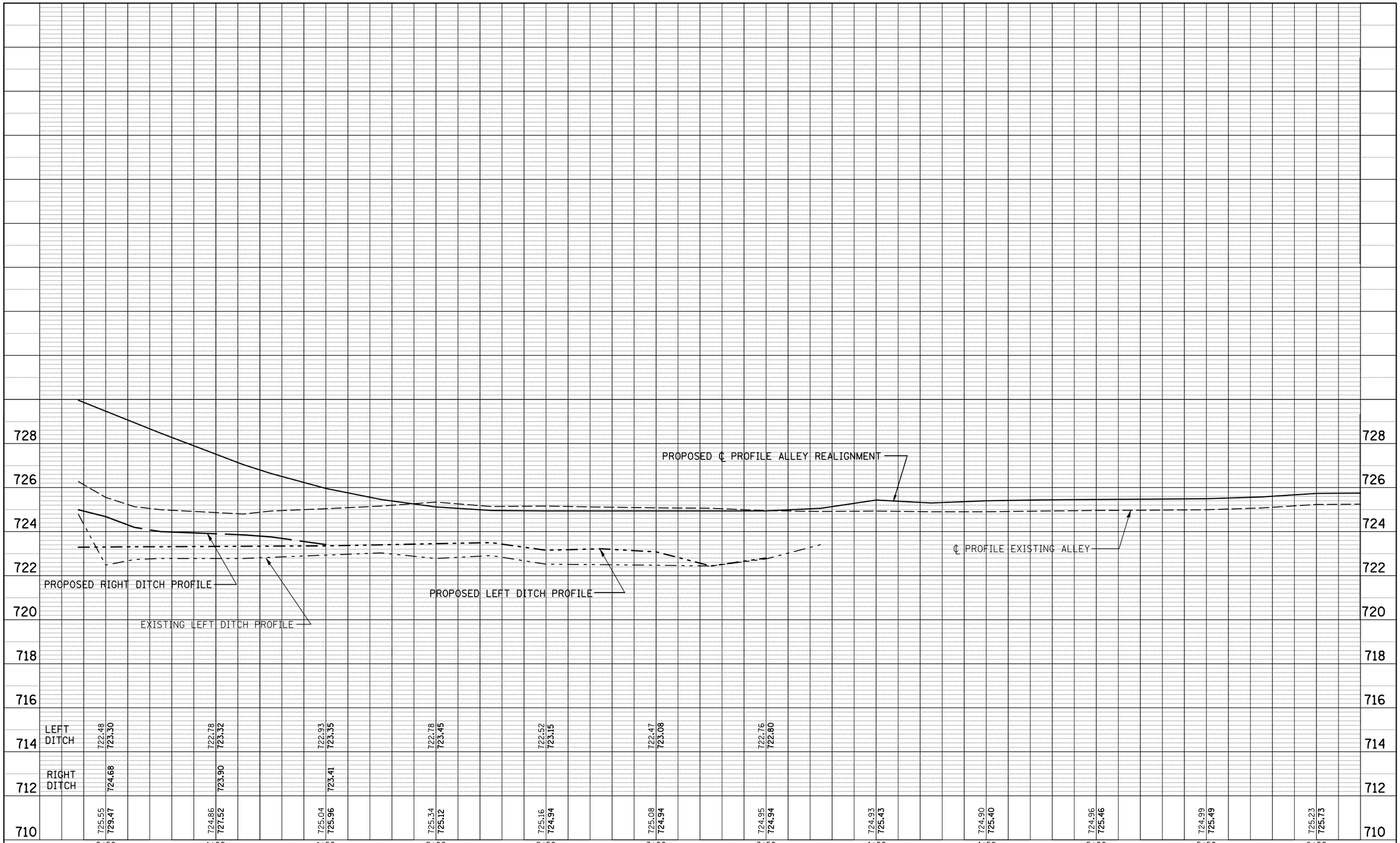
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	30
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		



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	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE (ALLEY)

SCALE: | SHEET NO. 2 OF 4 SHEETS | STA. 0+00.00 TO STA. 6+20.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	31
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 10, T20N, R6E, 3RD PM

(PROPOSED) F.A.S. ROUTE 1517 (U.S. ROUTE 150)

(EXISTING) F.A.S. ROUTE 1517 (U.S. ROUTE 150)

NE 1/4 SECTION LINE
NW 1/4 SECTION LINE

289+57.16, 33.91' LT (FROM PROPOSED ℄)

PROPOSED S.N. 074-0086
STATION 289+22.38

N 1/4 COR SEC 10-20-6
IP W/DOH CAP SET

SECTION 10
SECTION 3

PDT Sta 9+95.90

EX STATION 289+22.19 (U.S. 150) =
EX STATION 10+00 (RAILROAD)

ALLEY

PT Sta 8+05.00

9+00.00

8+25.00

PC Sta 6+65.17

MATCHLINE STATION 6+20.00

ALLEY

EQUIPMENT SHED

SALT SHED

289+28.11, 203.66' LT (FROM PROP ℄)

EXISTING STATE R.O.W.

AGG SURFACE COURSE, TYPE B

EXISTING R.R. R.O.W.

NORFOLK & SOUTHERN RAILROAD

PROPOSED PERMANENT EASEMENT

33'

33'

EXIST. CURVE ALLEY
PI STA. = 7+35.32
Δ = 11° 26' 45" (LT)
D = 8° 11' 06"
R = 700.00'
T = 70.15'
L = 139.84'
E = 3.51'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 6+65.17
P.T. STA. = 8+05.00

EXIST ALLEY
STA 3+75 TO STA 9+00

10'-0"

SLOPE TO DRAIN

6"

AGG SURF CSE, TYPE B

AGG SURFACE TRANSITION 6" - 0"

1"=20'

0' 5' 10' 15' 20' 40' 60'

SECTION 3, T20N, R6E, 3RD PM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (ALLEY)

SCALE: 1" = 20' | SHEET NO. 3 OF 4 SHEETS | STA. 6+20.00 TO STA. 9+95.90

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	32
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN

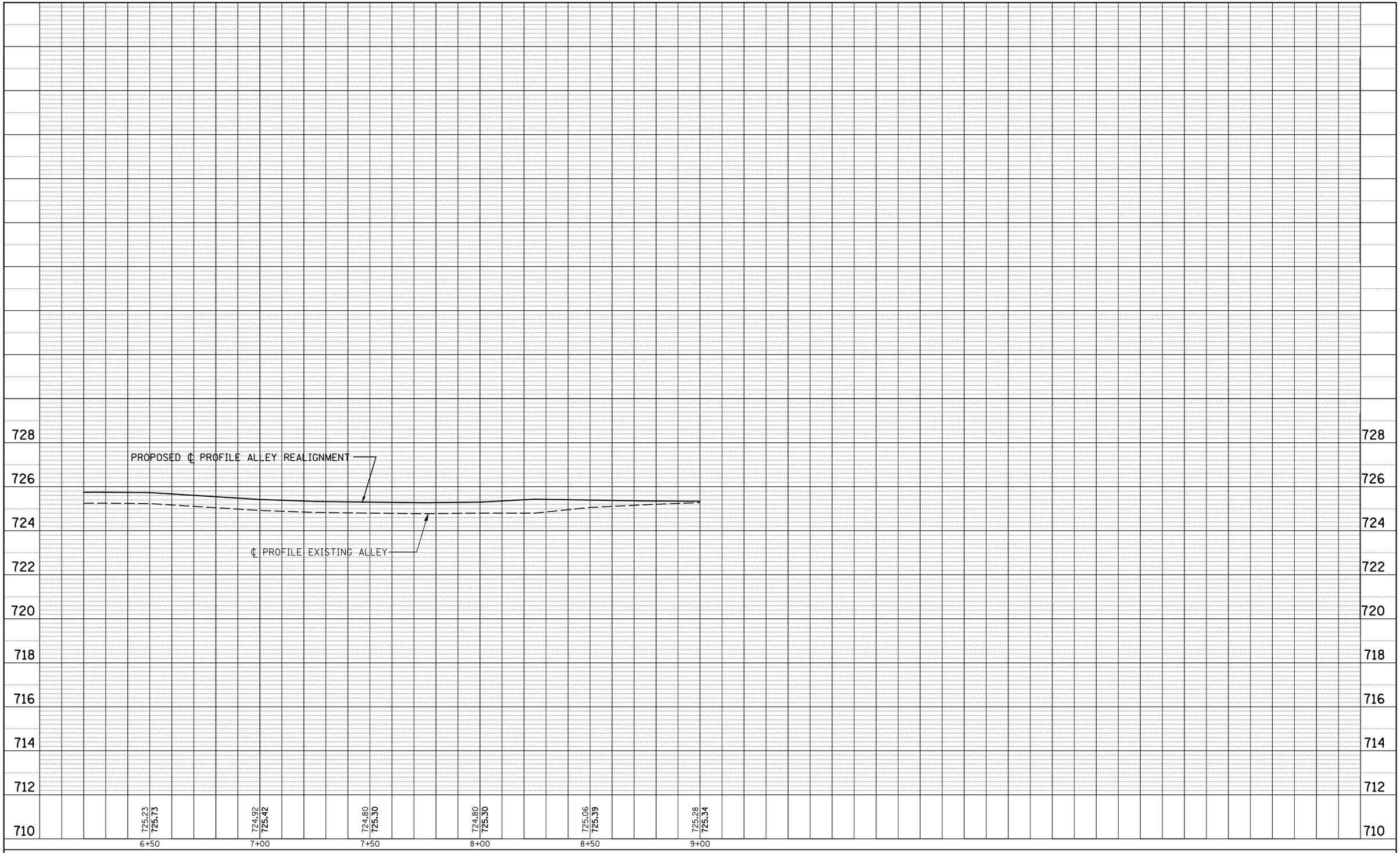
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	

BY	DATE

PROFILE

SURVEYED	
PLOTTED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	

BY	DATE



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	PLOT DATE = 10/13/2009	DATE -	REVISED -

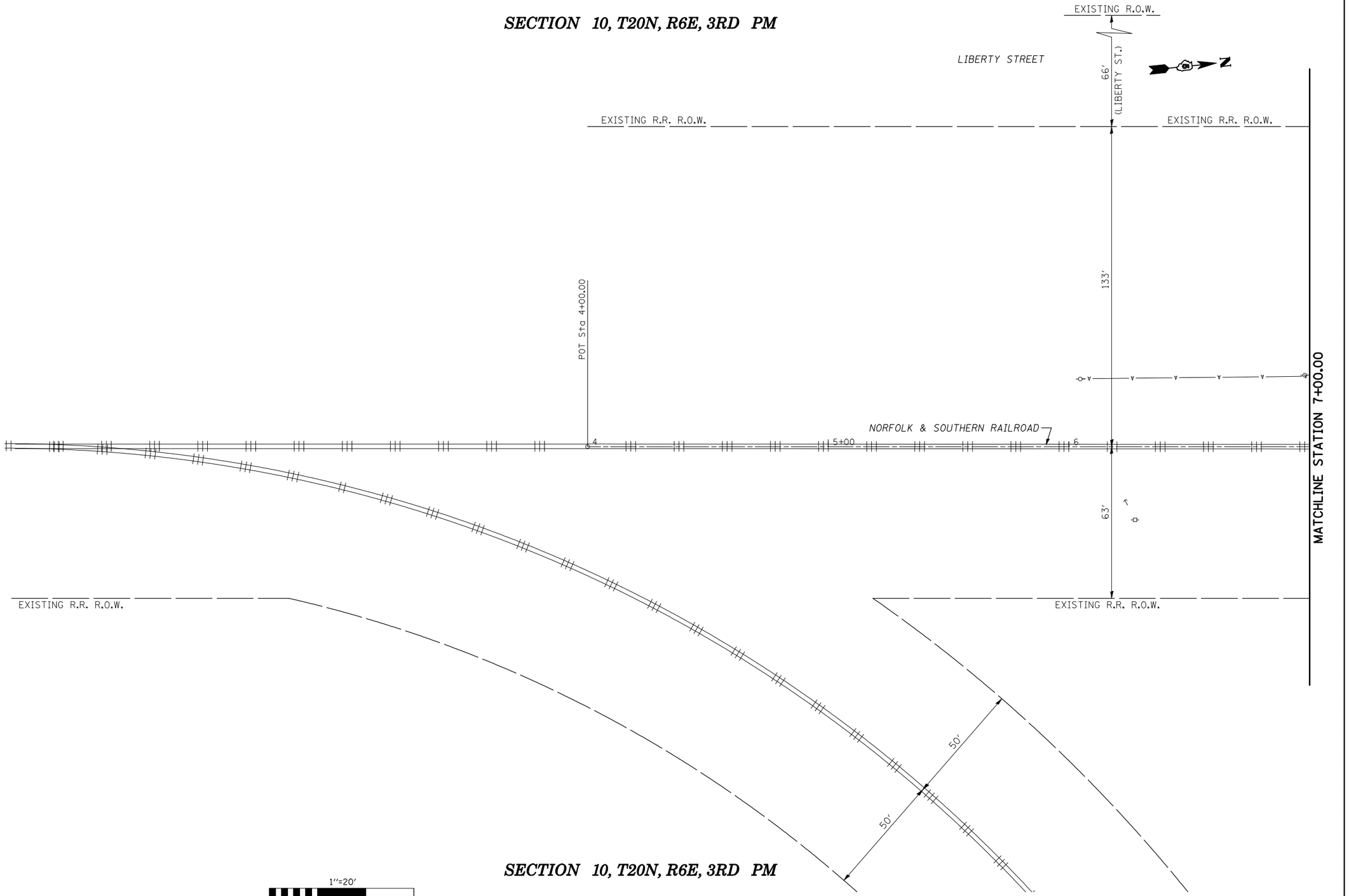
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE (ALLEY)

SCALE: | SHEET NO. 4 OF 4 SHEETS | STA. 6+20.00 TO STA. 9+95.90

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	33
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 10, T20N, R6E, 3RD PM



SECTION 10, T20N, R6E, 3RD PM

1"=20'

0' 5' 10' 15' 20' 40' 60'

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	PLOT SCALE = 40.0000 ' / IN.	DRAWN - JRP	REVISED -		
	PLOT DATE = 10/13/2009	CHECKED -	REVISED -		
		DATE - 04-07-2008	REVISED -		

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. 4+00.00 TO STA. 7+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	34
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		

735
730
725
720
715
710
705
700
695

EXISTING RAILROAD PROFILE

731.93 731.90 731.87 731.84 731.81 731.78 731.75 731.73 731.70 731.68 731.65 731.62 731.59 731.55 731.52 731.49

4+00 4+50 5+00 5+50 6+00 6+50 7+00

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	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE (NORFOLK & SOUTHERN RAILROAD)

SCALE: | SHEET NO. OF SHEETS | STA. 4+00.00 TO STA. 7+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	35
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 10, T20N, R6E, 3RD PM

SECTION 3, T20N, R6E, 3RD PM

N

MATCHLINE STATION 7+00.00

MATCHLINE STATION 13+00.00

EXISTING R.R. R.O.W.

66' STATE STREET

50'

EXISTING R.R. R.O.W.

℄ NORFOLK SOUTHERN RAILROAD (INACTIVE RAILROAD)

AT&T

VERIZON BUSINESS, INC.

(ORIGINAL 100' R.R. R.O.W.)

EXISTING R.R./STATE R.O.W.

N LINE NW 1/4 SEC 10-20-6

178°-31'-36.8"

PI Sta 287+70.85 (KINK)

Bk of W Abut Sta 288+40.38

℄ Pier 1 Sta 288+91.38

℄ Prop R.R. Sta 289+15.28

℄ Exist R.R. Sta 289+29.48

℄ Pier 2 Sta 289+53.38

PROPOSED S.N. 074-0086
CONTINUOUS STEEL BRIDGE
3 SPANS
STATION 289+22.38
BK. TO BK. ABUTMENT = 164'
SKEW 9°-42'-41" RT FORWARD

EX STATION 289+22.19 (U.S. 150) = EX STATION 10+00 (RAILROAD)

EXISTING S.N. 074-0009
PPC DECK BEAMS
STATION 289+23 (U.S. 150)

289+03.75
45.26' RT

289+09.24
77.31' RT

288+98.47
14.41' RT

288+64.20
185.85' LT

289+44.49
87.67' RT

289+45.86, 95.68' RT
(RR ℄'s INTERSECT)

289+76.31
77.99' RT

289+70.82
45.93' RT

289+28.11
203.66' LT

289+57.16
33.91' LT

290+26.67, 16.49' RT
(FROM PROPOSED ℄)

290+31.82, 46.54' RT
(FROM PROPOSED ℄)

290+16.28, 44.14' LT
(FROM PROPOSED ℄)

290+21.52, 13.56' LT
(FROM PROPOSED ℄)

PROPOSED RAILROAD

PROPOSED PERMANENT EASEMENT

NORFOLK & SOUTHERN RAILROAD

9°-42'-41"

6°-55'-48"

35°-2"

O. to O.

PC Sta 290+04.11

Bk of E Abut Sta 290+04.38

BURIED AT&T MANHOLE

BLDG

SALT SHED

EQUIPMENT SHED

STATE STREET

EXISTING R.R. R.O.W.

PROPOSED R.O.W.

PROPOSED TEMPORARY EASEMENT

EXISTING SERVICE ROAD TO BE REMOVED

℄ R.R. (NO TRACKS)

(ORIGINAL 100' R.R. R.O.W.) SOUTH LINE VACATED DEPOT STREET

EXISTING R.R. PROPERTY LINE

PROPOSED F.A.S. ROUTE 1517 (U.S. ROUTE 150)

NO. LINE VACATED DEPOT STREET

F.A.S. ROUTE 1517 (U.S. ROUTE 150)

SECTION 3 / SECTION 10

EXISTING STATE R.O.W.

133'

63'

33'

14'

80'

30'

66'

50'

1"=20'

0' 5' 10' 15' 20' 40' 60'

EXIST. CURVE U.S. 150
PI STA. = 291+82.95
△ = 8° 27' 16" (RT)
D = 2° 22' 05"
R = 2,419.60'
T = 178.84'
L = 357.03'
E = 6.60'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 290+04.11
P.T. STA. = 293+61.14

BM 4696-2 - CHISELED SQUARE ON TOP (SW COR) OF SOUTHWEST WINGWALL OF BRIDGE STATION 288+13.00, 17.65' RT. ELEVATION = 755.435

BM 4696-3 - CHISELED SQUARE ON FLAT TOP (NE COR) OF NORTHEAST WINGWALL OF BRIDGE STATION 290+27.00, 17.80' LT. ELEVATION = 755.56

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	PLOT DATE = 10/13/2009	DATE - 04-07-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (NORFOLK & SOUTHERN RAILROAD)

SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. 7+00.00 TO STA. 13+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	36
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

NOTE BOOK
NO.

BY | DATE

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD

NOTE BOOK
NO.

BY | DATE

735
730
725
720
715
710
705
700
695

EXISTING RAILROAD PROFILE

731.49 731.44 731.39 731.35 731.30 731.25 731.23 731.21 731.18 731.16 731.14 731.08 731.03 731.02 731.00 730.99 731.00 731.01 731.03 731.04 731.05 731.05 731.05 731.04 731.04 731.04 731.05 731.05 731.06 731.06 731.07

7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00 11+50 12+00 12+50 13+00

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	PLOT DATE = 10/13/2009	DATE -	REVISED -

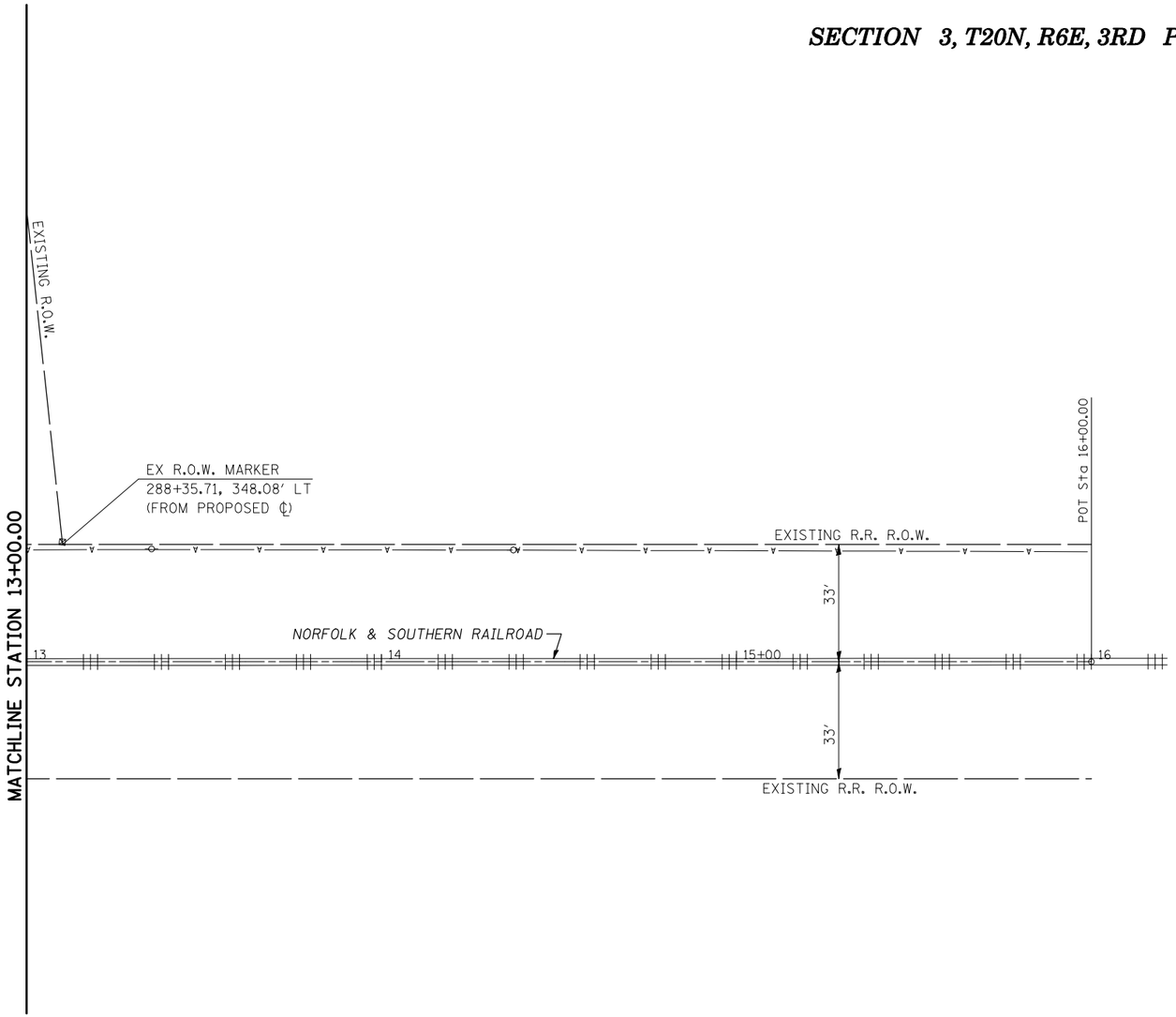
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE (NORFOLK & SOUTHERN RAILROAD)

SCALE: | SHEET NO. OF SHEETS | STA. 7+00.00 TO STA. 13+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	37
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 3, T20N, R6E, 3RD PM



SECTION 3, T20N, R6E, 3RD PM

NW 1/4 SECTION LINE
NE 1/4 SECTION LINE

1"=20'
0' 5' 10' 15' 20' 40' 60'

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	PLOT DATE = 10/13/2009	DATE - 04-07-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (NORFOLK & SOUTHERN RAILROAD)

SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 13+00.00 TO STA. 16+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	36
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

NOTE BOOK
NO. ____

BY | DATE

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD

NOTE BOOK
NO. ____

BY | DATE

735
730
725
720
715
710
705
700
695

EXISTING RAILROAD PROFILE

731.07 731.08 731.10 731.11 731.13 731.14 731.17 731.20 731.23 731.26 731.29

13+00 13+50 14+00 14+50 15+00

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	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE (NORFOLK & SOUTHERN RAILROAD)

SCALE: | SHEET NO. OF SHEETS | STA. 13+00.00 TO STA. 16+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	39
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL NOTES:

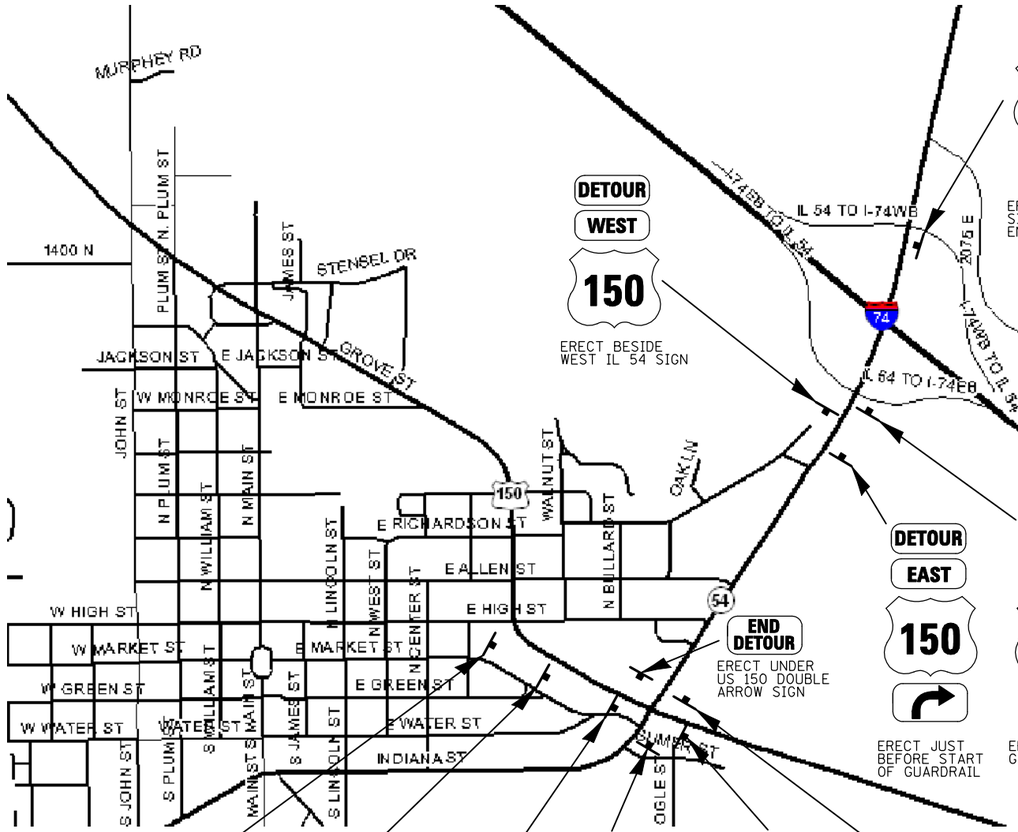
ALL DETOUR SIGN LOCATIONS ARE SUBJECT TO FIELD ADJUSTMENT IN CASE OF CONFLICTS. ANY ADJUSTMENTS WILL BE COORDINATED BY THE ENGINEER, THE CONTRACTOR, AND THE BUREAU OF OPERATIONS (CLARK PIPER) PRIOR TO ROAD CLOSURE.

CMS BOARD PLACEMENT SHALL BE COORDINATED WITH THE ENGINEER AND TRAFFIC CONTROL SUPERVISOR PRIOR TO CONSTRUCTION.

FURNISHING, PLACEMEMT AND REMOVAL OF ALL DETOUR SIGNS SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION FOR DETOUR SIGNING

REFER TO THE DETAIL FOR TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD/STREET CLOSURES) FOR ALL OTHER SIGNING AND PLACEMENT NOT SHOW HEREIN THIS DETAIL

FARMER CITY



DETOUR WEST 150 — ERECT BESIDE WEST IL 54 SIGN

DETOUR WEST 150 — ERECT BEHIND LT SIDE OF DO NOT ENTER SIGN

DETOUR EAST 150 — ERECT JUST PRIOR TO BEGINNING OF RAMP

DETOUR WEST 150 — ERECT BEHIND GUARDRAIL JUST PRIOR TO BRIDGE

DETOUR EAST 150 — ERECT BESIDE EAST I-74 SIGN

END DETOUR — ERECT UNDER US 150 DOUBLE ARROW SIGN

DETOUR EAST 150 — ERECT JUST BEFORE START OF GUARDRAIL

DETOUR EAST 150 — ERECT BESIDE GREENBOARD

ROAD CLOSED AHEAD — ERECT BESIDE STOP AHEAD SIGN

DETOUR AHEAD — ERECT BESIDE GIBSON CITY/ CLINTON SIGN

DETOUR EAST 150 — ERECT BESIDE US 150 IL 54 SIGN

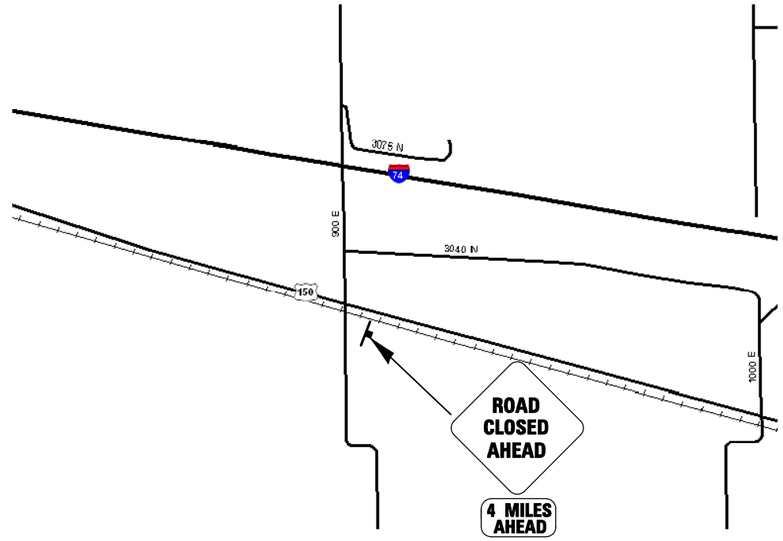
ROAD CLOSED AHEAD — ERECT JUST PAST SUMMER STREET

ROAD CLOSED AHEAD 6 MILES AHEAD — ERECT BESIDE EAST US 150 SIGN

DETOUR EAST 150 — ERECT BESIDE E IL 54 I 74 ARROW SIGNS

SCHEDULE OF PROPOSED DETOUR SIGN INVENTORY IS FOR INFORMATION ONLY. NUMBER AND LOCATION OF SIGNS MAY VARY DUE TO FIELD CONFLICTS. ANY CHANGES SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM FOR DETOUR SIGNING.

N900E RD 3 MI. EAST OF FARMER CITY



ERECT 100'± EAST OF INTERSECTION

SCHEDULE OF PROPOSED DETOUR SIGN INVENTORY

SIGN TYPE	NUMBER OF SIGNS EACH	SIGN TYPE	NUMBER OF SIGNS EACH
ROAD CLOSED AHEAD	7	BARRICADE AHEAD	2
DETOUR AHEAD	2	←	3
DETOUR	18	→	3
EAST	9	↱	5
WEST	9	↗	2
END DETOUR	2	↰	1
150	18	4 MILES AHEAD	1
	TOTAL SIGNS = 65		TOTAL SIGNS = 17

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	PLOT DATE = 10/13/2009	DATE - 061109	REVISED -

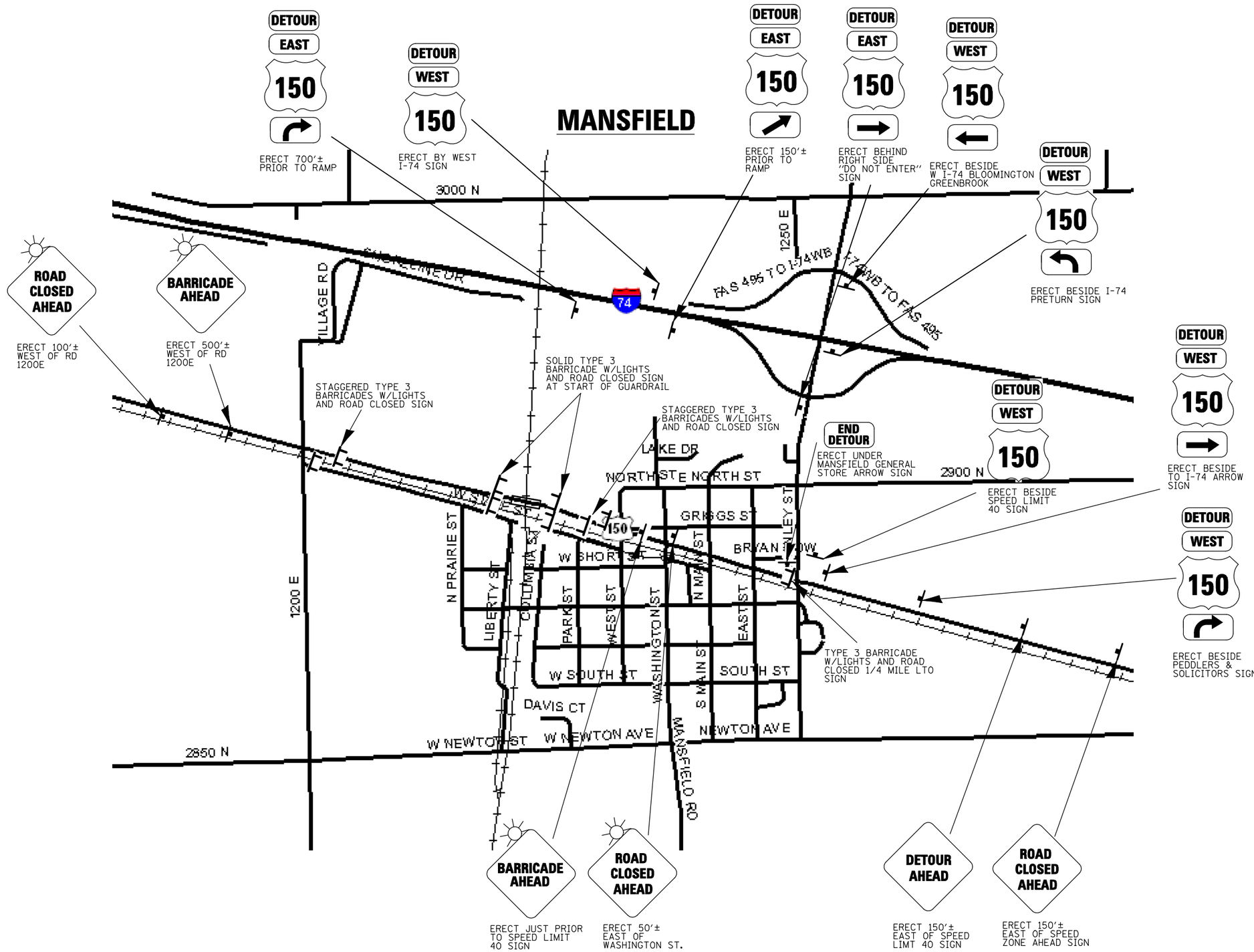
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	40
		CONTRACT NO. 70388		
		ILLINOIS FED. AID PROJECT		

MANSFIELD



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	PLOT DATE = 10/13/2009	DATE - 061109	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	41
		CONTRACT NO. 70388		
	ILLINOIS	FED. AID PROJECT		

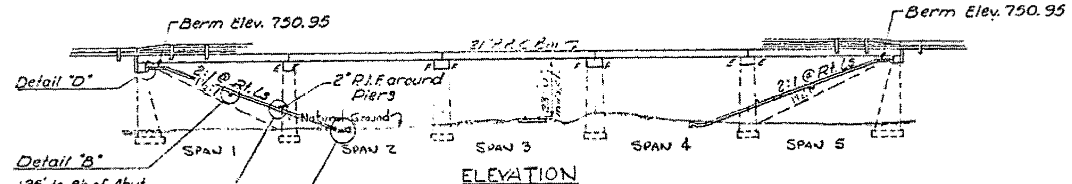
Existing Structure: Built as S.B.I. Rte. 39 at Sta. 289+23, Sec. 12 V. ... 1973. Existing ... to be removed and replaced with ... traffic over the structure at all times, protected with traffic signals. No Salvage.

BM. - USC&GS U-165 Top Conc. Base, between two southmost legs Pier No. 3 Elev. 728.535

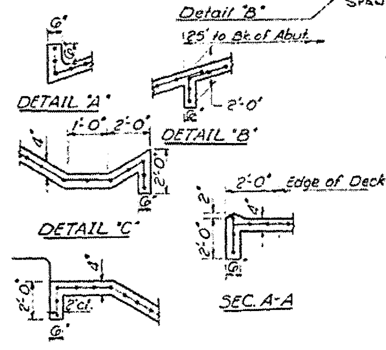
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 39 F.A.	12VBR	PIATT	12	6

SHEET NO. 1
7 SHEETS



ELEVATION



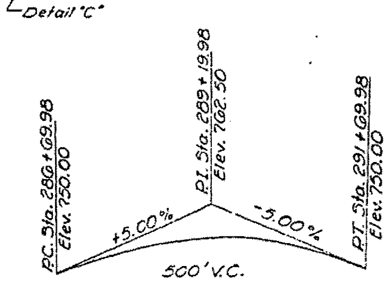
DETAIL "A"

DETAIL "B"

DETAIL "C"

SEC. A-A

DETAIL "D"



PROPOSED PROFILE S.B.I. RT. 39

Top Class I

Length of Pre Cast Beams	
Span No. 1	43' - 0 3/4"
Span No. 2	43' - 3 3/5"
Span No. 3	44' - 11 3/4"
Span No. 4	43' - 2 3/4"
Span No. 5	43' - 1 3/5"

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

An alternate strand pattern using Extra High Strength Prestressing strand (270 k.s.i.) is permitted.

Expansion bolts shall consist of self drilling expansion anchors and 3/4"φ hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete unless otherwise shown.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

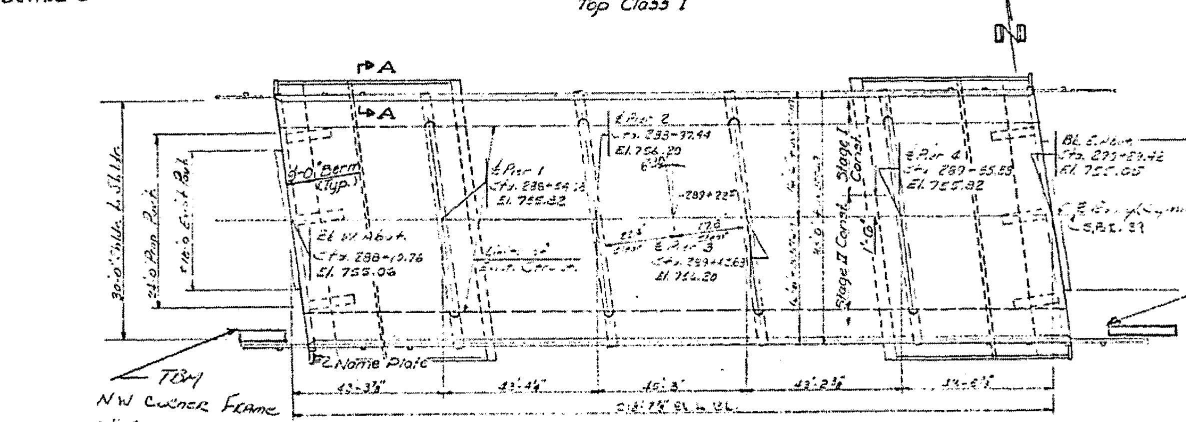
All Structural Steel shall be shop painted with two coats of basic lead-silico chromate paint.

Expansion guards shall be fabricated in accordance with Article 503.07(c) of the Std. Specs. and are included in quantity of structural steel.

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total	As Built
* Bituminous Concrete Surface Crse., Class I	Tons	140		140	140
Concrete Removal	Cu. Yds.		22	22	21.51
Expansion Bolts (3/4"φ)	Each		144	144	144
Class X Concrete	Cu. Yds.	17.4	57.8	75.2	77.39
Precast Prestressed Conc. Dk. Beams (21")	Sq. Ft.	7183		7183	7188
Steel Railing, Type T	Lin. Ft.	437		437	
Reinforcement Bars	Lbs.	1000	7350	8350	8350
Pavement Rem. & P.C.C. Replacement, T2 (10")	Sq. Yds.			8	11.95
Removal of Existing Superstructures	Each			1	1
Waterproofing Membrane System	Sq. Yds.	781		781	792.84
Name Plates	Each			1	1
Preformed Joint Sealer (2 1/2")	Lin. Ft.	66		66	66
Temporary Guard Rail	Lin. Ft.	219		219	219
Protective Coat	Sq. Yds.	73		73	
Slope Wall (4")	Sq. Yds.	550		550	689.50
Structural Steel	Lbs.	4650		4650	4650

* Back to Back of Abutments



PLAN

STATION 289+23
REBUILT 197 BY
STATE OF ILLINOIS
S.B.I. RT. 39 SEC. 12VBR
LOADING HS20

NAME PLATE
See Std. 2113

PRECAST PRESTRESSED UNITS

f'c = 5000 psi
f'ci = 4000 psi
f's = 248000 psi (Strands)
f'si = 173,600 psi (Strands)

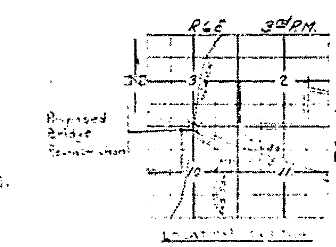
FIELD UNITS

fc = 1,400 psi
fs = 20,000 psi Reinf.
n = 10

Allow 25#/Sq. ft. for future W.S.

LOADING HS 20-44

Design Specifications AASHO 1969 as applicable



GENERAL PLAN & ELEVATION
S.B.I. RT. 39 OVER N. & W. R.R.
S.B.I. RT. 39 SEC. 12VBR
PIATT COUNTY
STA. 289+23

DESIGNED	(signature)	EXAMINED	July 2 1971 (signature)
CHECKED	(signature)	PASSED	
DRAWN	(signature)	APPROVED	DIRECTOR OF HIGHWAYS
CHECKED	JP		

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	PLOT DATE = 10/13/2009	DATE - 090309	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

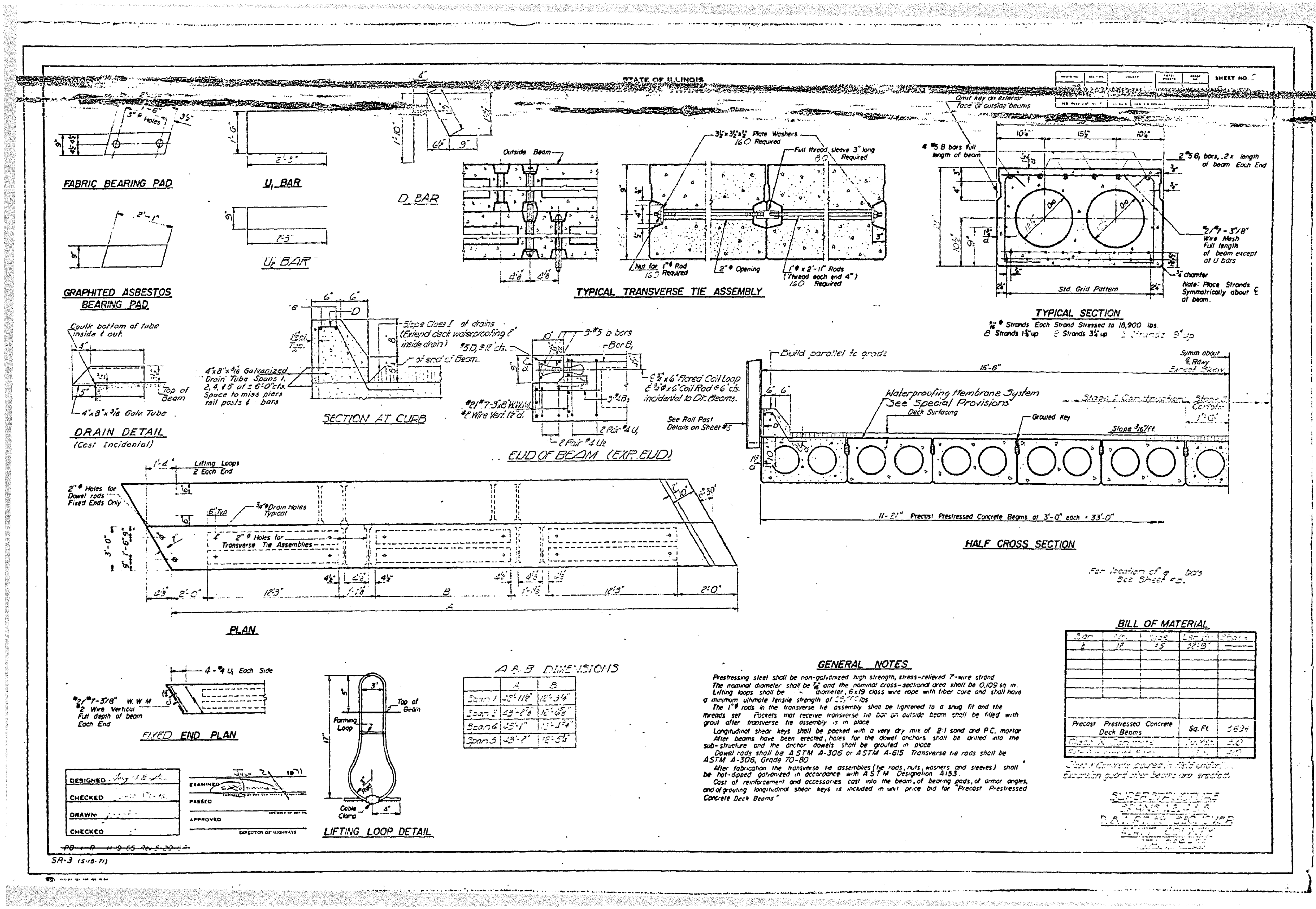
AS-BUILT PLANS SN 074-0009
INFORMATION ONLY

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	42

CONTRACT NO. 70388

ILLINOIS FED. AID PROJECT



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	PLOT DATE = 10/13/2009	DATE - 090309	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS SN 074-0009
INFORMATION ONLY

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	43

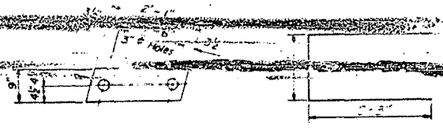
CONTRACT NO. 70388

ILLINOIS | FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

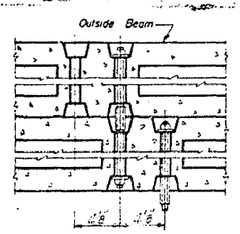
39	12VBR	PIATT	12	8

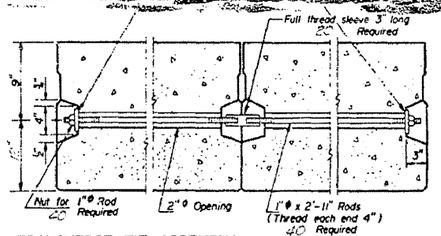
SHEET NO
SHEETS



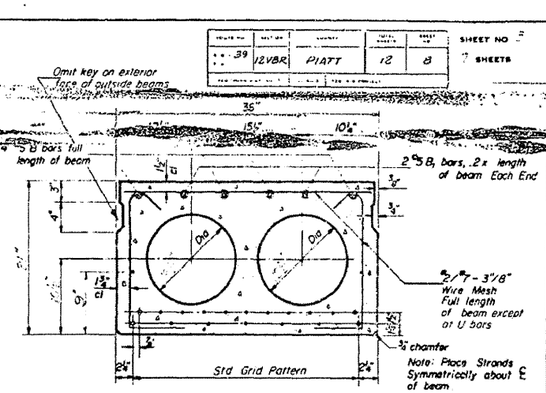
FABRIC BEARING PAD

U₁ BAR





TYPICAL TRANSVERSE TIE ASSEMBLY

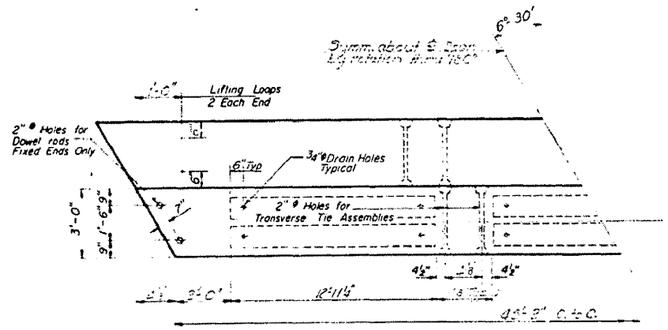


Note: Place Strands Symmetrically about ℄ of beam

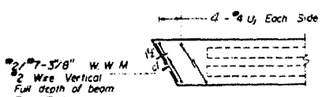
TYPICAL SECTION

⅞" ø Strands Each Strand Stressed to 18,900 lbs.
7 Strands 1¾" up 7 Strands 3¼" up 2 Strands 9" up

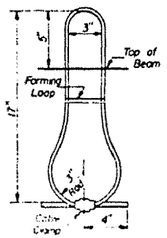
For details of Bar D see Sheet #2.



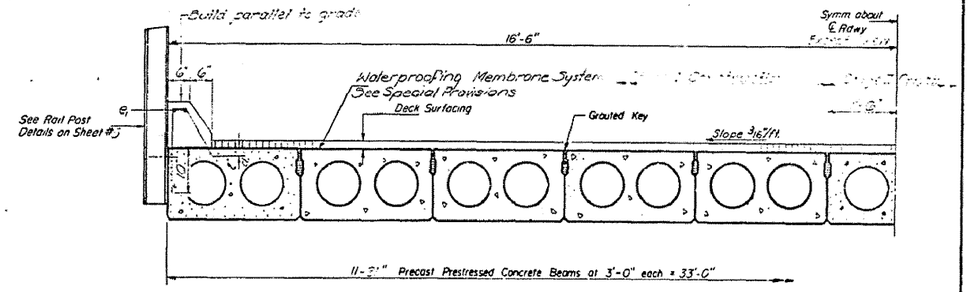
PLAN



END PLAN



LIFTING LOOP DETAIL



For location of ℄ Beams
See Sheet #5.

HALF CROSS SECTION

BILL OF MATERIAL

Bar	No.	Size	Length	Wt.
Precast Prestressed Concrete Deck Beams			Sq. Ft.	

GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand. The nominal diameter shall be ⅞" and the nominal cross-sectional area shall be 0.109 sq in.

Lifting loops shall be [illegible] diameter, 6 x 19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 23,200 lbs.

The 1"ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place.

Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place.

Dowel rods shall be A.S.T.M. A-305 or A.S.T.M. A-615. Transverse tie rods shall be A.S.T.M. A-306, Grade 70-80.

After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation A153.

Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

EXAMINED July 2 1951
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

SP-3 (5-48-71)

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	PLOT DATE = 10/13/2009	DATE - 090309	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS SN 074-0009
INFORMATION ONLY

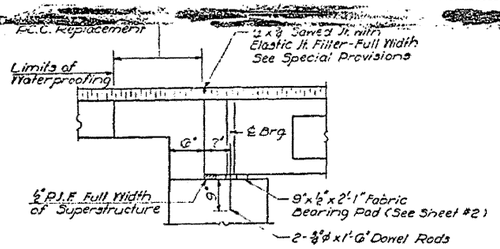
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	44
		CONTRACT NO. 70388		
	ILLINOIS FED. AID PROJECT			

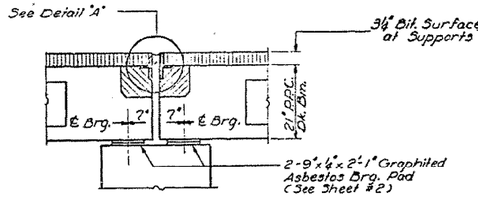
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 39	12VBR	PIATT	12	9
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

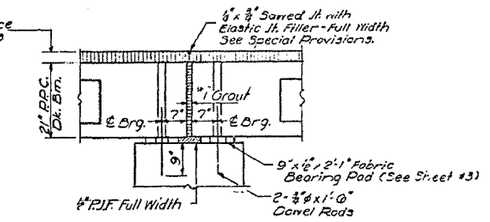
SHEET NO. 1
7 SHEETS



SECTION THRU ABUT.

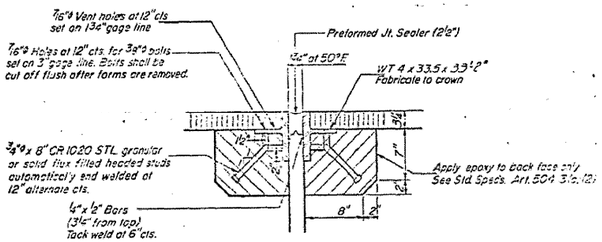


SECTION THRU PIERS 1 & 4



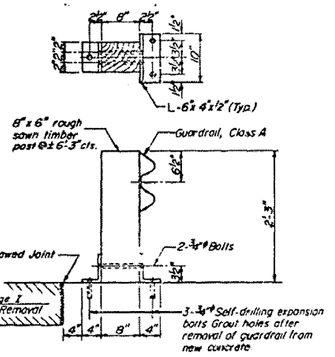
SECTION THRU PIERS 2 & 3

* 1" Joint shall be packed with a very dry mix of 6:1 sand and P.C. mortar. This dimension may vary plus or minus to accomodate tolerance in beam lengths.



DETAIL "A"

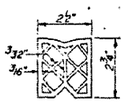
NOTE: Dimensions are at right angles.
Hatched areas to be poured after beams have been erected and joints grouted.
Ends of beams shall be aligned at the expansion joints. Any lineal variation in the beam lengths shall be placed at the fixed joint.
See End of Beam Detail for reinforcement.



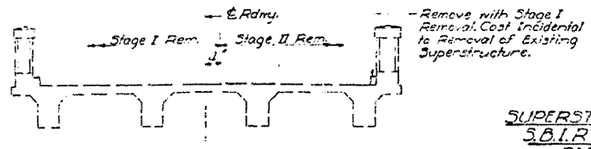
TEMPORARY GUARDRAIL DETAIL
See Special Provisions

DESIGNED	[illegible]	
CHECKED	[illegible]	
DRAWN	[illegible]	
CHECKED	[illegible]	

Dated at [illegible] 19[illegible]
EXAMINED
PASSED
APPROVED
DIRECTOR OF HIGHWAYS



PREFORMED JOINT SEALER (2½")



EXISTING CROSS SECTION

SUPERSTRUCTURE DETAILS
S.B.I. RT. 39 SEC. 12VBR
PIATT COUNTY
STA. 269+23

M&E CO 10-1288

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	PLOT DATE = 10/13/2009	DATE - 090309	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS SN 074-0009
INFORMATION ONLY

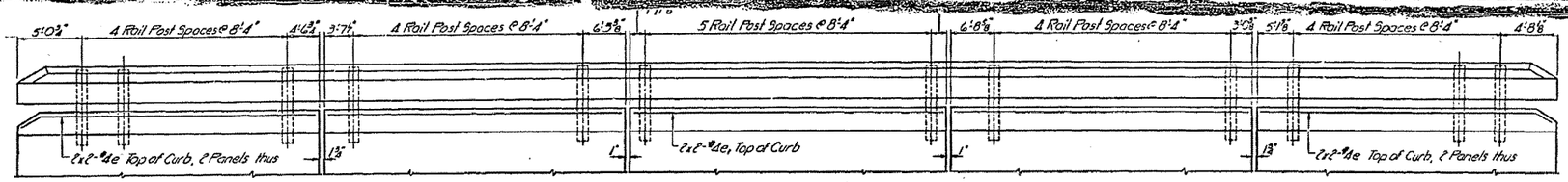
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	45
		CONTRACT NO. 70388		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

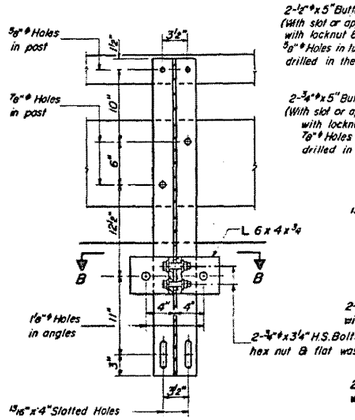
DRAWING NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-70388	12VBR	PIATT	12	10

SHEET NO. 5
7 SHEETS

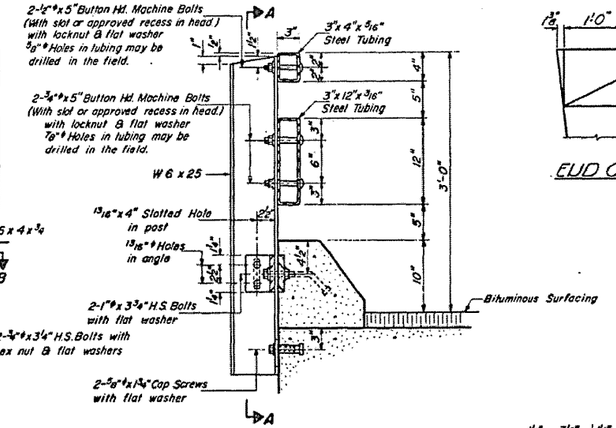


ELEVATION

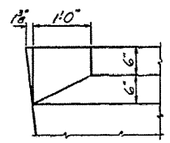
All dimensions along inside face of rail



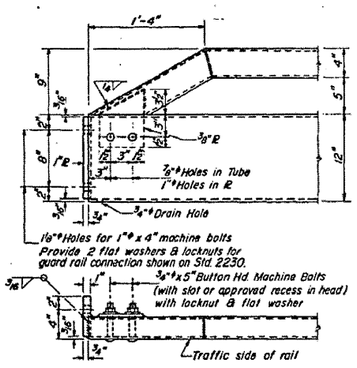
SECTION A-A



SECTION AT RAIL POST



END OF CURB



END OF RAIL DETAILS

NOTES

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B or A-501 Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of A.S.T.M. designation A-36 except posts shall conform to A.S.T.M. A-441.

Bolts, cap screws, and nuts shall conform to the requirement of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to A.S.T.M. designation A-325.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with A.S.T.M. designation A-153.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with A.S.T.M. designation A-123 and A-385. Galvanized rail shall not be painted.

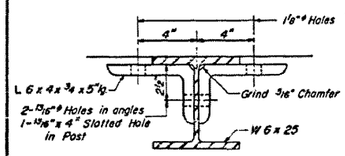
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING, TYPE T.

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

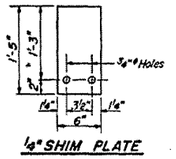
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place ⅛" fabric bearing pad between the post and concrete.

The ⅞"ø high strength bolts used to connect the 6 x 4 x ¾ angles to the post shall be tightened in accordance with Article 507.04(g)(3) of the Standard Specifications. The 1"ø high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional ⅛ turn.

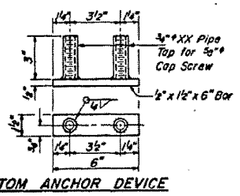
For multi-span bridges, sufficient ¼" x 6" x 1'-5" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to Steel Railing.



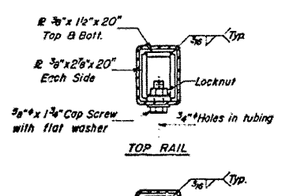
SECTION B-B



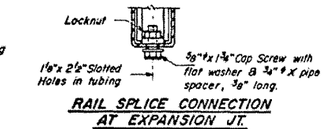
¼" SHIM PLATE



BOTTOM ANCHOR DEVICE



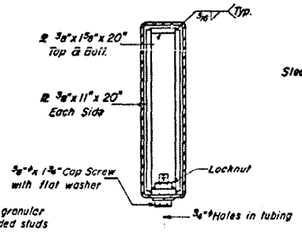
TOP RAIL



RAIL SPLICE CONNECTION AT EXPANSION JT.

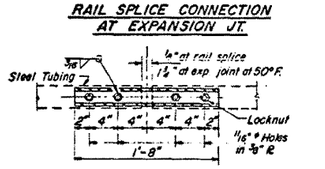
CURB & RAIL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	32	#4	22'-0"	
e	8	#4	23'-0"	
Reinforcement Bars			Lbs.	590
Class X Concrete			Cu. Yds.	14.4
Steel Railing, Type T			Lin. Ft.	237

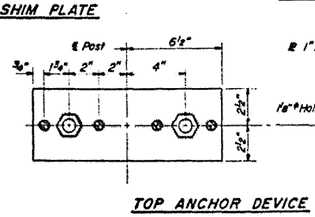


BOTTOM RAIL

SECTIONS AT RAIL SPLICE



PLAN - BOTT. SPLICE PL TYPICAL



TOP ANCHOR DEVICE

DESIGNED	EXAMINED	19
CHECKED	PASSED	DIVISION OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN J.D.	APPROVED	DIVISION OF HIGHWAYS
CHECKED		DIRECTOR OF HIGHWAYS

R-24 12-10-71 (9'-0" Maximum Post Spacing)

TYPE T STEEL RAILING

SBI. RT. 39 SEC. 12 VBR
PIATT COUNTY
STA. 289+23

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
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	PLOT SCALE = 100.0000 ' / IN.	CHECKED - JMS	REVISED -
	PLOT DATE = 10/13/2009	DATE - 090309	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS SN 074-0009
INFORMATION ONLY

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

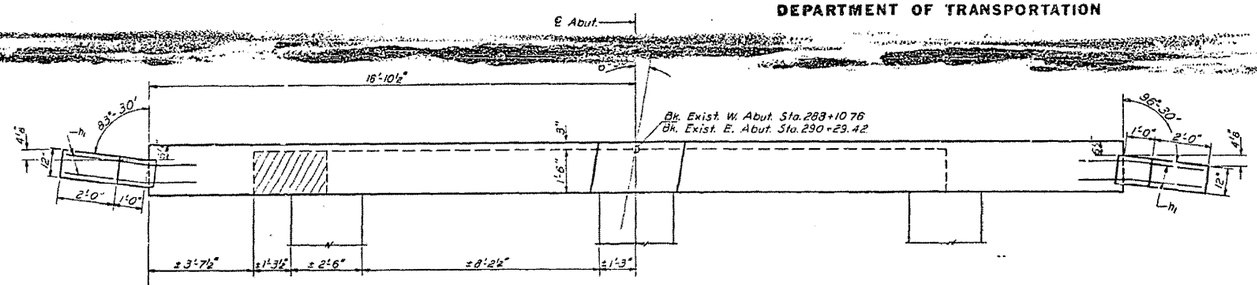
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	46
		CONTRACT NO. 70388		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

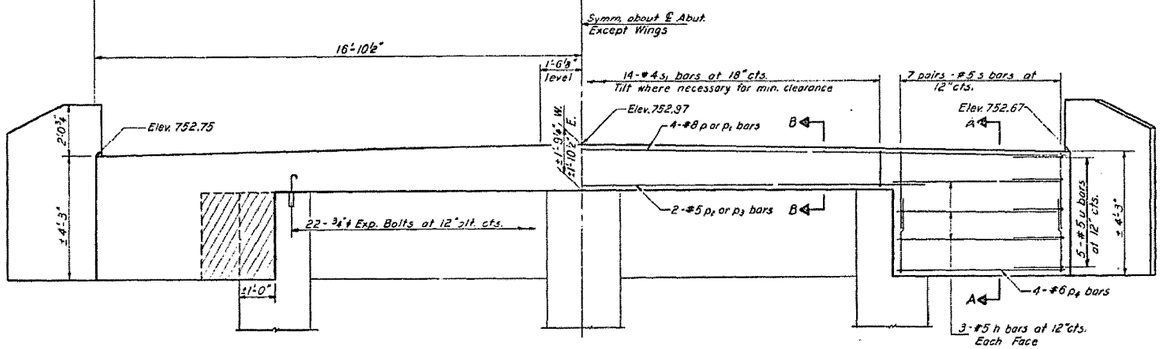
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 39	12VBR	PIATT	12	11
F.A.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6
7 SHEETS

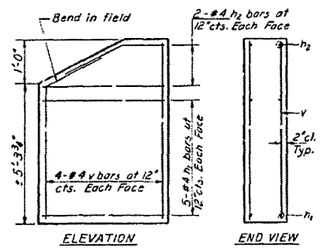
Notes:
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion bolts shall be anchored in sound concrete.
All edges shall have standard ¾" chamfers.



PLAN



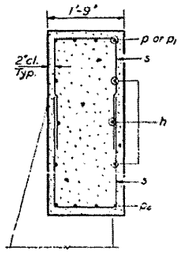
ELEVATION



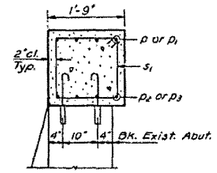
ELEVATION END VIEW

Wing Wall shall be poured after Deck Beams are in place

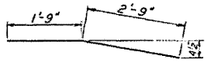
WING WALL DETAIL



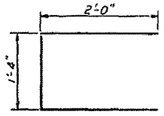
SECTION A-A



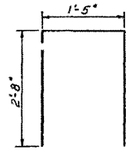
SECTION B-B



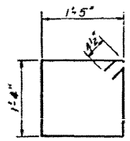
BAR h1



BAR u



BAR s



BAR s1

TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Lenght	Shape
h	24	#5	5'-9"	—
h1	40	#4	4'-6"	—
h2	16	#4	2'-5"	—
p	8	#8	17'-6"	—
p1	8	#8	18'-3"	—
p2	4	#5	13'-6"	—
p3	4	#5	10'-9"	—
p4	16	#6	5'-9"	—
s	56	#5	6'-9"	□
s1	28	#4	6'-3"	□
u	20	#5	5'-4"	⊏
v	32	#4	5'-9"	—
Class X Concrete			Cu. Yds.	14.5
Reinforcement Bars			Lbs.	1,041
Expansion Bolts ⅜"ϕ			Each	44
Concrete Removal			Cu. Yds.	2

ABUTMENTS
S.B.I. RT. 39 SEC. 12VBR
PIATT COUNTY
STATION 289+23

DESIGNED	Craig Hill	
CHECKED	Charles Rivet	
DRAWN	R. D. Summer	
CHECKED	JP	

EXAMINED June 2 1971
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

H.B.E. CO. 10-1280

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-asbuilts.dgn	DRAWN - JMS	REVISED -	
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - JMS	REVISED -
	PLOT DATE = 10/13/2009	DATE - 090309	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS SN 074-0009
INFORMATION ONLY

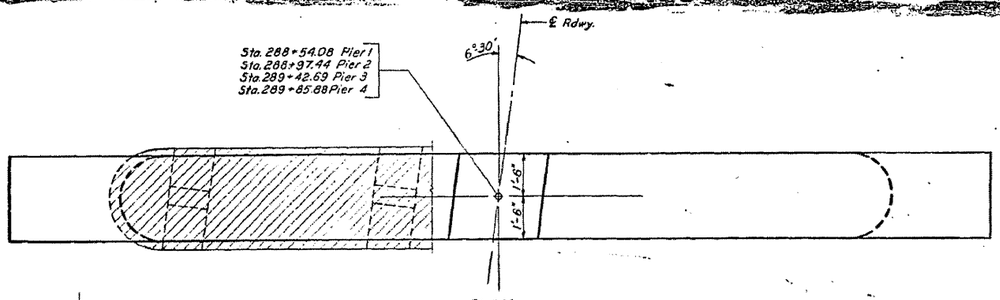
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	47
		CONTRACT NO. 70388		
	ILLINOIS FED. AID PROJECT			

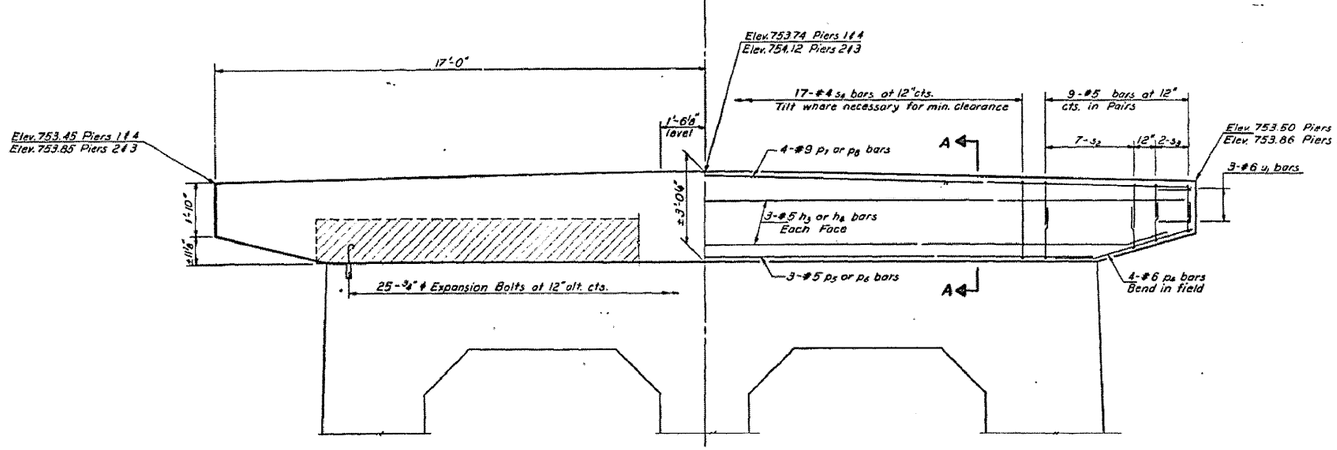
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Hatched area indicates Concrete Removal. Expansion Bolts shall be anchored in sound concrete.

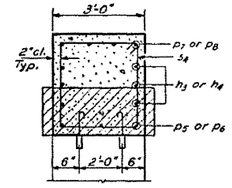
Sta. 288+54.08 Pier 1
Sta. 288+97.44 Pier 2
Sta. 289+42.69 Pier 3
Sta. 289+85.88 Pier 4



PLAN



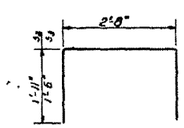
ELEVATION
Looking East Piers 1 & 2
Looking West Piers 3 & 4



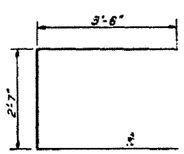
SECTION A-A

FOUR PIERS
BILL OF MATERIAL

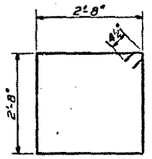
Bar	No.	Size	Length	Shape
p_7	24	#9	17'-3"	
p_8	24	#9	18'-3"	
h_3	32	#8	5'-9"	
h_{3m}	2	#8	13'-6"	
h_4	16	#8	14'-6"	
p_5	16	#9	17'-3"	
p_6	16	#9	18'-3"	
s_2	112	#5	6'-6"	
s_{2m}	32	#5	5'-8"	
s_4	68	#4	11'-5"	
u_1	24	#6	9'-7"	
Class X Concrete			Cu. Yds.	43.3
Reinforcement Bars			Lbs.	5,310
Expansion Bolts ⅞" ϕ			Each	100
Concrete Removal			Cu. Yds.	20



BARS s_2 & s_3



BAR v_1



BAR s_4

DESIGNED	Hay W Barker
CHECKED	James Pincel
DRAWN	R. P Summer
CHECKED	JP

EXAMINED 19
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

PIERS
S.B.I. RT. 39 SEC. 12VBR
PIATT COUNTY
STATION 289+23

HEE CO. 10-1288

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-asbuilts.dgn		DRAWN - JMS	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - JMS	REVISED -
	PLOT DATE = 10/13/2009	DATE - 090309	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS SN 074-0009
INFORMATION ONLY

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	48
		CONTRACT NO. 70388		
	ILLINOIS FED. AID PROJECT			

FOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
39	Piatt	12V	6	4

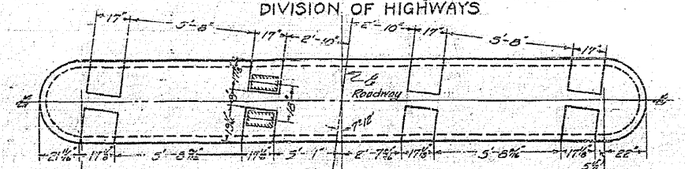
SHEET NO. 3 OF SHEETS

B.M. - S&W in T.P. right Sta. 295+00
Elev. 215.17

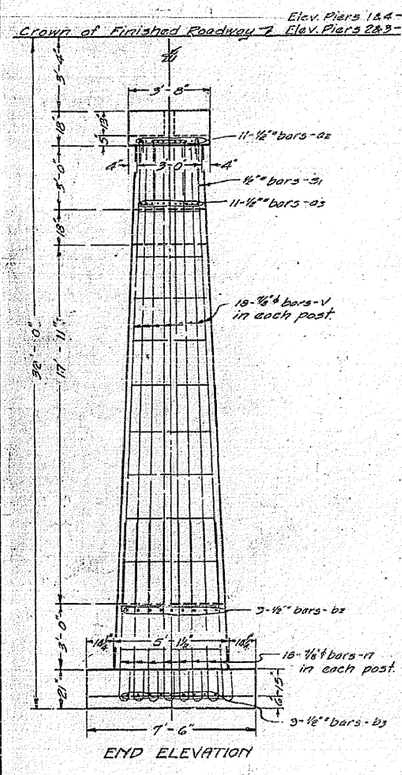
No existing structure.

Note: Pockets as shown in piers 1 & 4. Pockets in East side of pier 2 only. Omit pockets in pier 3.

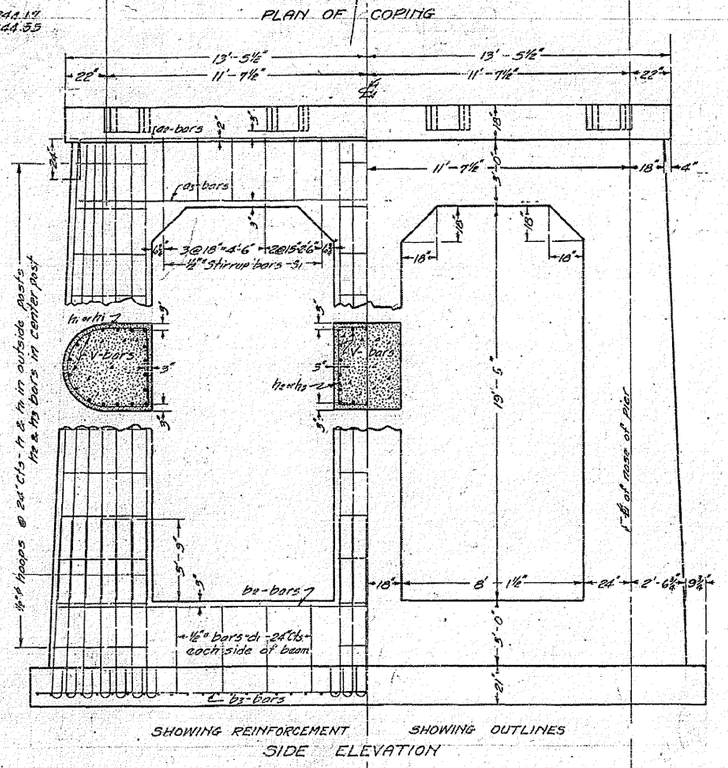
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



PLAN OF COPING

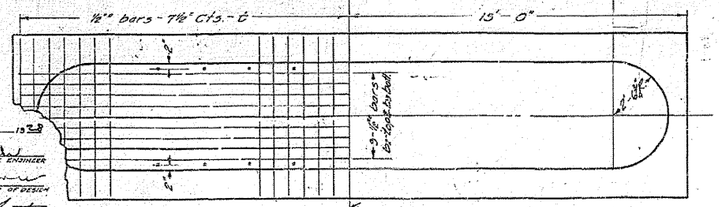


END ELEVATION



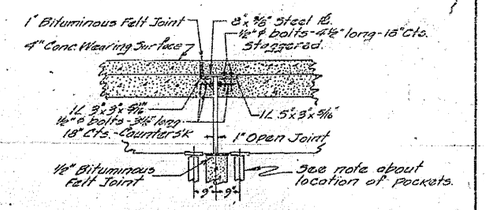
SHOWING REINFORCEMENT SHOWING OUTLINES

SIDE ELEVATION



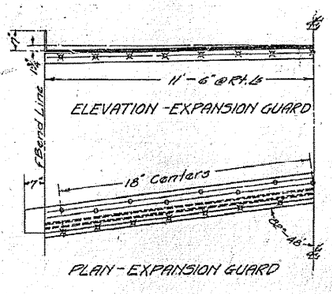
SHOWING REINFORCEMENT & SHOWING OUTLINES

PLAN OF FOOTING

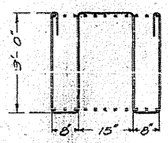


DETAILS OF EXPANSION GUARD
4 REQUIRED

STRUCTURAL STEEL - LBS - 2400



PLAN - EXPANSION GUARD



DETAIL OF BARS - S1

BILL OF MATERIAL - 4 PIERS

Bar	No.	Size	Length	Bar	No.	Size	Length
a2	44	½"	28'-6"	h	93	⅝"	15'-0"
a3	44	½"	24'-6"	h1	56	⅝"	17'-0"
b2	36	½"	26'-0"	h2	24	⅝"	14'-0"
b3	36	½"	29'-6"	h3	28	⅝"	16'-0"
d1	44	½"	4'-0"				
				t	192	½"	7'-3"
m	216	⅞"	9'-0"	S1	48	½"	16'-6"
V	216	⅞"	22'-8"				
Class A Concrete - Cu. Yds.							295.8
Reinforcing Steel - Lbs.							21310

Class A Concrete shall be used throughout. Proportions - 1:2½:4.

All reinforcing steel shall be wired securely in place before concrete is poured.

STANDARD	COMPUTED	D.M. Rayburn
	CHECKED	H.C. Shurtleff
	DRAWN	D.M. Rayburn
	CHECKED	H.C. Shurtleff
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED James L. 1938
H. H. Bonnett BRIDGE ENGINEER
PASSED H.C. Shurtleff ENGINEER OF DESIGN
APPROVED Frank T. Sheets CHIEF HIGHWAY ENGINEER
Revised - Oct. 26, 1938
H.C. Shurtleff

WABASH OVERHEAD
AT MANSFIELD
S.B.I. ROUTE 39 - SECTION 12V
PIATT COUNTY
STATION 289+23

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-asbuilts.dgn	DRAWN - JMS	REVISED -	
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - JMS	REVISED -
	PLOT DATE = 10/13/2009	DATE - 090309	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS SN 074-0009
INFORMATION ONLY

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

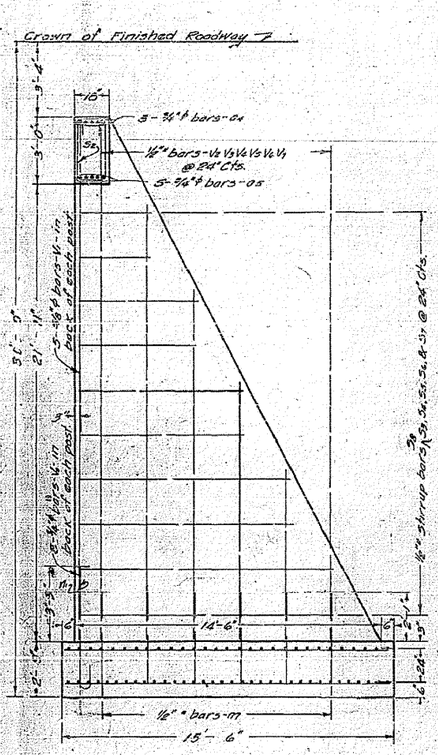
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	49
		CONTRACT NO. 70388		
	ILLINOIS FED. AID PROJECT			

JOINT ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
39	Piatt	12V	6	5

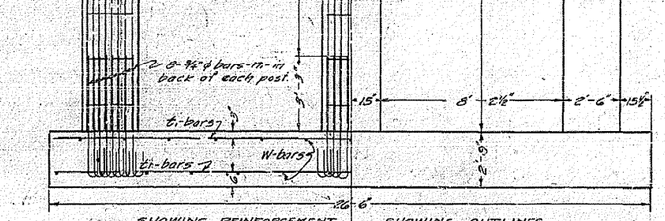
SHEET No. 4 OF 4 SHEETS

B.M. - S.&W. in T.P. right Sta. 295+00
Elev. 215.17
No existing structure.

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

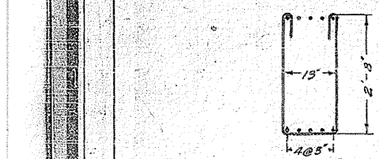


END ELEVATION

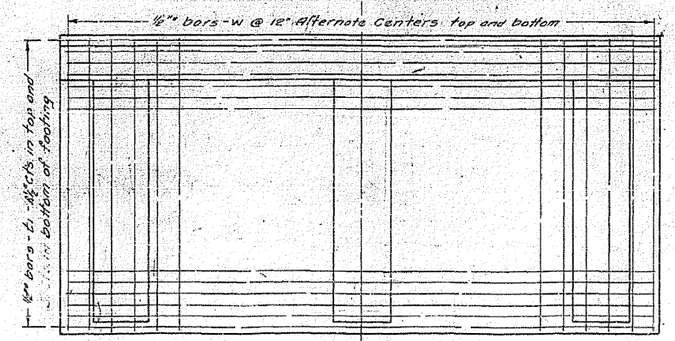


SHOWING REINFORCEMENT SHOWING OUTLINES

FRONT ELEVATION



DETAIL OF BAR "S2"



PLAN

BILL OF MATERIAL - 2 ABUTS

Bar	No.	Size	Length
a4	10	¾"ϕ	29'-0"
a5	10	¾"ϕ	26'-0"
V6	48	½"ϕ	13'-0"
V1	30	½"ϕ	14'-0"
V2	12	½"	24'-0"
V3	12	½"	21'-0"
V4	12	½"	17'-0"
V5	12	½"	13'-0"
V6	12	½"	9'-0"
V7	12	½"	5'-0"
m	48	¾"ϕ	6'-6"
S2	28	½"	7'-6"
S3	12	½"	22'-0"
S4	12	½"	20'-0"
S5	12	½"	16'-6"
S6	12	½"	12'-0"
S7	12	½"	8'-0"
W	72	½"	4'-0"
t1	164	½"	26'-0"
a3	6	½"	28'-0"
W	54	½"	14'-3"

Class A Concrete - C.Y.'s: 200.7
Reinforcing Steel - Lbs: 9250

Class A concrete shall be used throughout.
Proportions - 1:2½:4.

All reinforcing steel shall be wired securely in place before concrete is poured.

STANDARD	COMPUTED	W.M.K. Remine
	CHECKED	H. Eastlund
	DRAWN	W.M.K. Remine
	CHECKED	H. Eastlund
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED January 1, 1938
H. F. Bonnell
BRIDGE ENGINEER

PASSED A. E. Durning
ENGINEER OF DESIGN

APPROVED Frank T. Sheets
CHIEF HIGHWAY ENGINEER

Revised - Oct. 23, 1939
H. F. Bonnell

WABASH OVERHEAD
AT MANSFIELD
S.B.I. - ROUTE 39 - SECTION 12V.
PIATT COUNTY
STATION 289+23

FILE NAME =	USER NAME = shererjm	DESIGNED - JMS	REVISED -
c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-asbuilts.dgn		DRAWN - JMS	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - JMS	REVISED -
	PLOT DATE = 10/13/2009	DATE - 090309	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS SN 074-0009
INFORMATION ONLY

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	50
		CONTRACT NO. 70388		
	ILLINOIS FED. AID PROJECT			

44000100 PAVEMENT REMOVAL

STATION	TO	STATION	LENGTH	WIDTH	SQ YD
276+00.00		287+98.87	1198.9	26.0	3463.4
290+41.22		303+00.00	1258.8	26.0	3636.5
				TOTAL =	7099.9
				USE =	7100.0

44000155 HOT-MIX AS[HALT SURFACE REMOVAL, 1 1/2"

STATION	TO	STATION	LENGTH	WIDTH	SQ YD
273+00.00		276+00.00	300.0	26.0	866.7
303+00.00		304+00.00	100.0	26.0	288.9
				TOTAL =	1155.6
				USE =	1156.0

44000196 HOT-MIX AS[HALT SURFACE REMOVAL, SPECIAL

STATION	TO	STATION	LENGTH	WIDTH	SQ YD
299+19.61		300+15.24	95.6	VAR.	192.9
				TOTAL =	192.9
				USE =	193.0

44000700 APPROACH SLAB REMOVAL

STATION	TO	STATION	LENGTH	WIDTH	SQ YD
287+98.87		288+10.87	12.0	32.0	42.7
290+29.26		290+41.22	12.0	32.0	42.7
				TOTAL =	85.4
				USE =	86.0

44004250 PAVED SHOULDER REMOVAL

STATION	TO	STATION	LENGTH	WIDTH	SQ YD
297+04.80		297+36.53	31.7	3.0	10.6
297+91.68		299+93.19	201.5	13.0	291.1
299+93.19		300+38.89	45.7	3.0	15.2
300+90.70		301+74.41	83.7	3.0	27.9
				TOTAL =	344.8
				USE =	345.0

50104000 BRIDGE RAIL REMOVAL

	STATION	TO		STATION	LENGTH
LT	288+08.70		LT	290+27.10	219.1
RT	288+12.90		RT	290+31.20	219.1
				TOTAL =	438.2
				USE =	438.0

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		DRAWN - JMS	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2009	DATE - 051909	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF REMOVAL

SCALE: 1" = 20' | SHEET NO. 1 OF 8 SHEETS | STA. N/A TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	51
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

50104650 SLOPE WALL REMOVAL

LOCATION	SQ YD
EAST SLOPE WALL	269.6
WEST SLOPE WALL	271.9
TOTAL =	541.5
USE =	542.0

50105200 REMOVE EXISTING CULVERTS

STATION	EACH	20800150 TRENCH BACKFILL CU YD
RT. 295+37.6	1.0	
LT. 296+73.16	1.0	26.0
TOTAL =	2.0	26.0

60500065 REMOVE INLETS, SPECIAL

	STATION	EACH
LT	288+01.14	1.0
RT	288+05.15	1.0
LT	290+32.64	1.0
RT	290+37.38	1.0
TOTAL =		4.0

63200310 GUARD RAIL REMOVAL

	STATION	TO	STATION	LENGTH
LT	283+07.89	LT	288+10.87	503.0
RT	283+07.89	RT	288+10.87	503.0
LT	290+29.26	LT	296+90.23	665.5
RT	290+29.26	RT	297+09.65	677.0
		TOTAL =		2348.5
		USE =		2349.0

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		DRAWN - JMS	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2009	DATE - 051909	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF REMOVAL

SCALE: 1" = 20' | SHEET NO. 2 OF 8 SHEETS | STA. N/A TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	52
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 3, T20N, R6E, 3RD PM

DETAIL NOTES

① ALL REMOVAL ITEMS ARE BASED OFF THE OLD ALIGNMENT.

② THERE ARE AREAS WHERE MINOR TREE REMOVAL MAY BE NEEDED TO ESTABLISH THE PLAN CROSS-SLOPES. ANY TREE REMOVAL SHALL NOT BE PAID FOR SEPARATLEY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS REMOVAL AND EARTHWORK PAY ITEMS.

③ THE STORAGE AREA (FENCE COMPOUND) SHALL BE REMOVED BY THE CONTRACTOR DURING CONSTRUCTION A NEW FENCE COMPOUND WILL BE BUILT BY OTHERS AT THE NS FACILITY IN MANSFIELD. THE COST OF THE NEW FENCE COMPOUND IS INCLUDED IN THE AGREEMENT IDOT HAS ENTERED INTO WITH NS FOR THIS PROJECT. COST OF REMOVAL SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS REMOVAL PAY ITEMS.

④ EXISTING SERVICE ROAD SHALL BE RECONSTRUCTED DURING CONSTRUCTION. THE REMOVAL OF THE EXISTING SERVICE ROAD SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS ASSOCIATED WITH REMOVAL AND EARTHWORK.

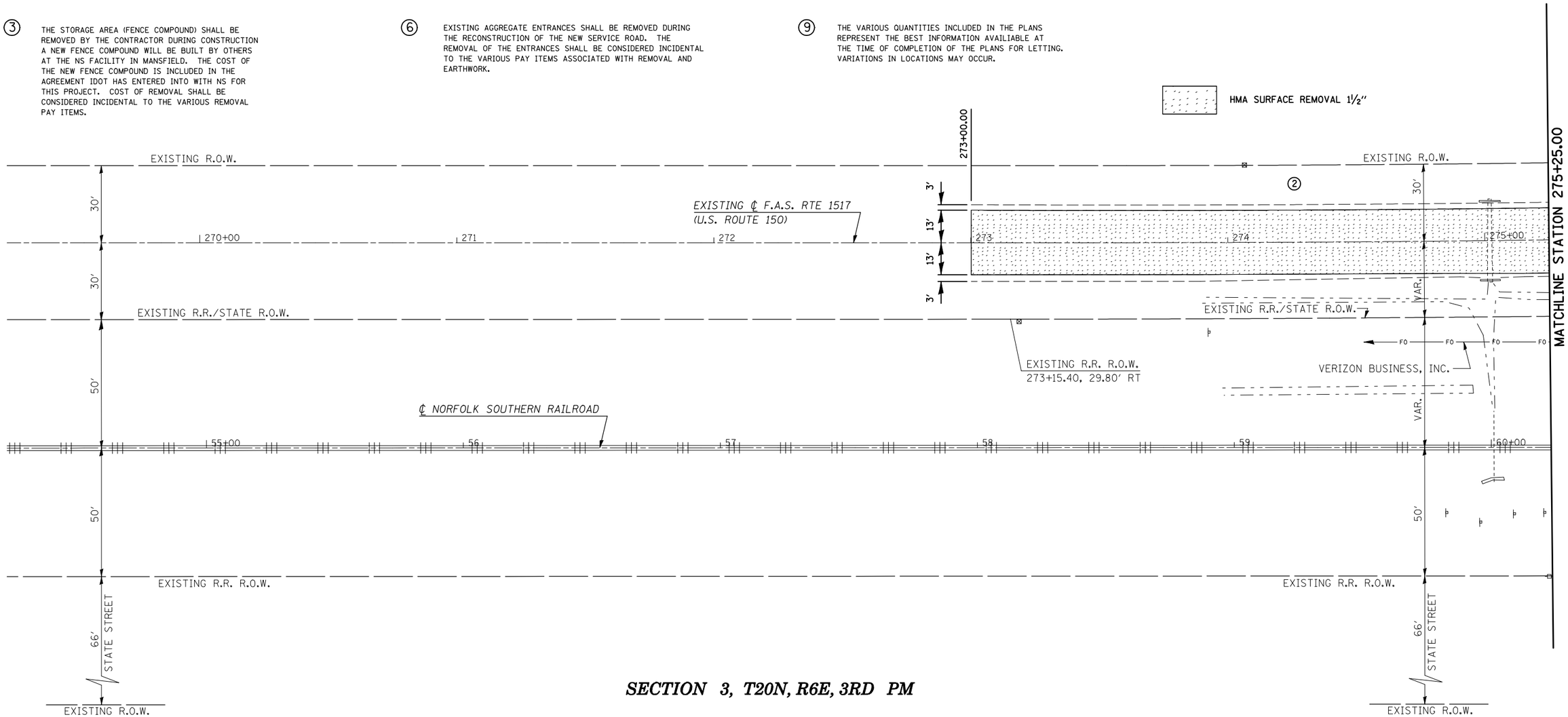
⑤ EXISTING ALLEY SHALL BE RECONSTRUCTED DURING CONSTRUCTION. THE REMOVAL OF THE EXISTING ALLEY SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS ASSOCIATED WITH REMOVAL AND EARTHWORK.

⑥ EXISTING AGGREGATE ENTRANCES SHALL BE REMOVED DURING THE RECONSTRUCTION OF THE NEW SERVICE ROAD. THE REMOVAL OF THE ENTRANCES SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS ASSOCIATED WITH REMOVAL AND EARTHWORK.

⑦ EXISTING SHOULDER DRAINS SHALL BE REMOVED IN THEIR ENTIRETY. THIS INCLUDES THE GRATES, CASTING, PIPE, END SECTIONS, AND ANY OTHER ITEMS ASSOCIATED WITH THE SHOULDER DRAINS. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH AS REMOVING INLETS, SPECIAL.

⑧ ANY ROW MARKERS, SIGNS, AND OTHER MINOR ITEMS THAT ARE TO BE REMOVED AS A RESULT OF THE CONSTRUCTION OF THE NEW ALIGNMENT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS REMOVAL AND EARTHWORK ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

⑨ THE VARIOUS QUANTITIES INCLUDED IN THE PLANS REPRESENT THE BEST INFORMATION AVAILIABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATIONS MAY OCCUR.



SECTION 3, T20N, R6E, 3RD PM

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	PLOT DATE = 10/13/2009	DATE - 051909	REVISED -

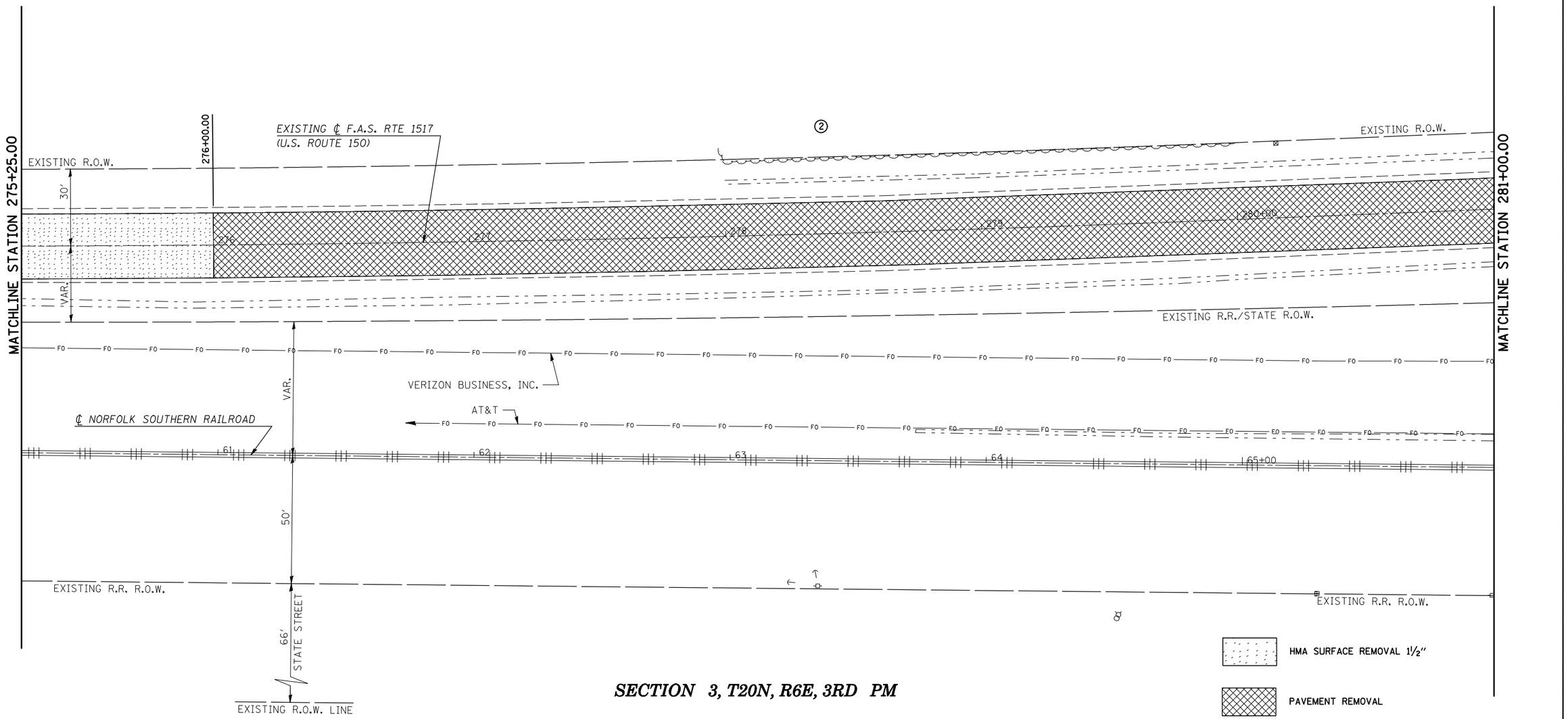
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

SCALE: 1" = 20' | SHEET NO. 3 OF 8 SHEETS | STA. 273+00.00 TO STA. 275+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	53
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 3, T20N, R6E, 3RD PM



SECTION 3, T20N, R6E, 3RD PM

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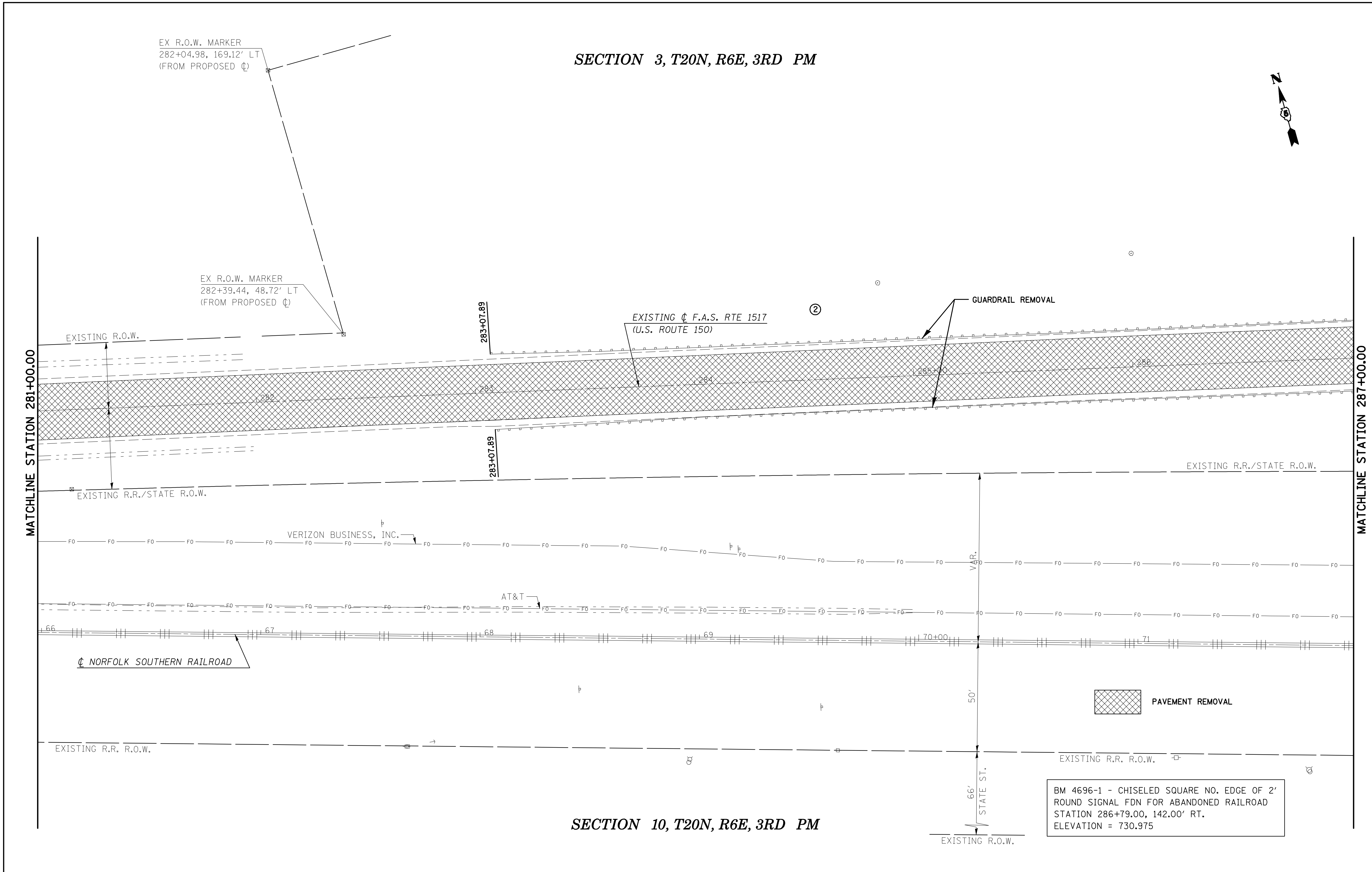
	PLOT DATE = 10/13/2009	DATE - 051909	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

SCALE: 1" = 20' | SHEET NO. 4 OF 8 SHEETS | STA. 275+25.00 TO STA. 281+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	54
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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PLOT DATE = 10/13/2009

DESIGNED	-	JMS	REVISED -
DRAWN	-	JMS	REVISED -
CHECKED	-		REVISED -
DATE	-	051909	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

SCALE: 1″ = 20′ | SHEET NO. 5 OF 8 SHEETS | STA. 281+00.00 TO STA. 287+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	55

CONTRACT NO. 70388

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

SECTION 3, T20N, R6E, 3RD PM

PAVEMENT REMOVAL

REMOVE EXST. STRUCTURE

APPROACH SLAB REMOVAL

SALT SHED

EQUIPMENT SHED

EXISTING R.R. R.O.W.

EXISTING R.R. R.O.W.

EXISTING S.N. 074-0009
PPC+DECK BEAMS
STATION 289+23

SEE AS-BUILT PLANS SN 074-0009

N

33'

33'

EX STATION 289+22.19 (U.S. 150) =
EX STATION 10+00 (RAILROAD)

SECTION 3
SECTION 10

6°-55'-48"

⑦ REMOVE INLETS (SPL)

SLOPEWALL REM.

SLOPEWALL REM.

⑦ REMOVE INLETS (SPL)

GUARDRAIL REMOVAL

GUARDRAIL REMOVAL

EXISTING ℄ F.A.S. RTE 1517
(U.S. ROUTE 150)

287+98.87

288+10.87

290+16.28, 44.14' LT
(FROM PROPOSED ℄)

290+29.26

290+41.22

MATCHLINE STATION 287+00.00

MATCHLINE STATION 293+00.00

288

289

290+00

291

292

⑦ REMOVE INLETS (SPL)

BRIDGE RAIL REM.

⑦ REMOVE INLETS (SPL)

EXISTING R.R./STATE R.O.W.

EXISTING R.R. PROPERTY LINE

VAR.

80'

VERIZON BUSINESS, INC.

290+26.67, 16.49' RT
(FROM PROPOSED ℄)

VERIZON BUSINESS, INC.

AT&T

AT&T

BURIED AT&T
MANHOLE

72

73

℄ NORFOLK SOUTHERN RAILROAD

℄ R.R. (NO TRACKS)

50'

50'

③ EXISTING STORAGE AREA
TO BE RELOCATED

④ EXISTING SERVICE ROAD
TO BE REMOVED

BLDG

66' STATE ST.

66' STATE ST.

EXISTING R.O.W.

EXISTING R.R. R.O.W.

BM 4696-2 - CHISELED SQUARE ON FLAT TOP (SW COR) OF SOUTHWEST WINGWALL OF BRIDGE STATION 288+13.00, 17.65' RT.
ELEVATION = 755.435

289+45.86, 95.68' RT
(RR ℄'s INTERSECT)

BM 4696-3 - CHISELED SQUARE ON FLAT TOP (NE COR) OF NORTHEAST WINGWALL OF BRIDGE STATION 290+27.00, 17.80' LT.
ELEVATION = 755.56

SECTION 10, T20N, R6E, 3RD PM

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	PLOT DATE = 10/13/2009	DATE - 051909	REVISED -

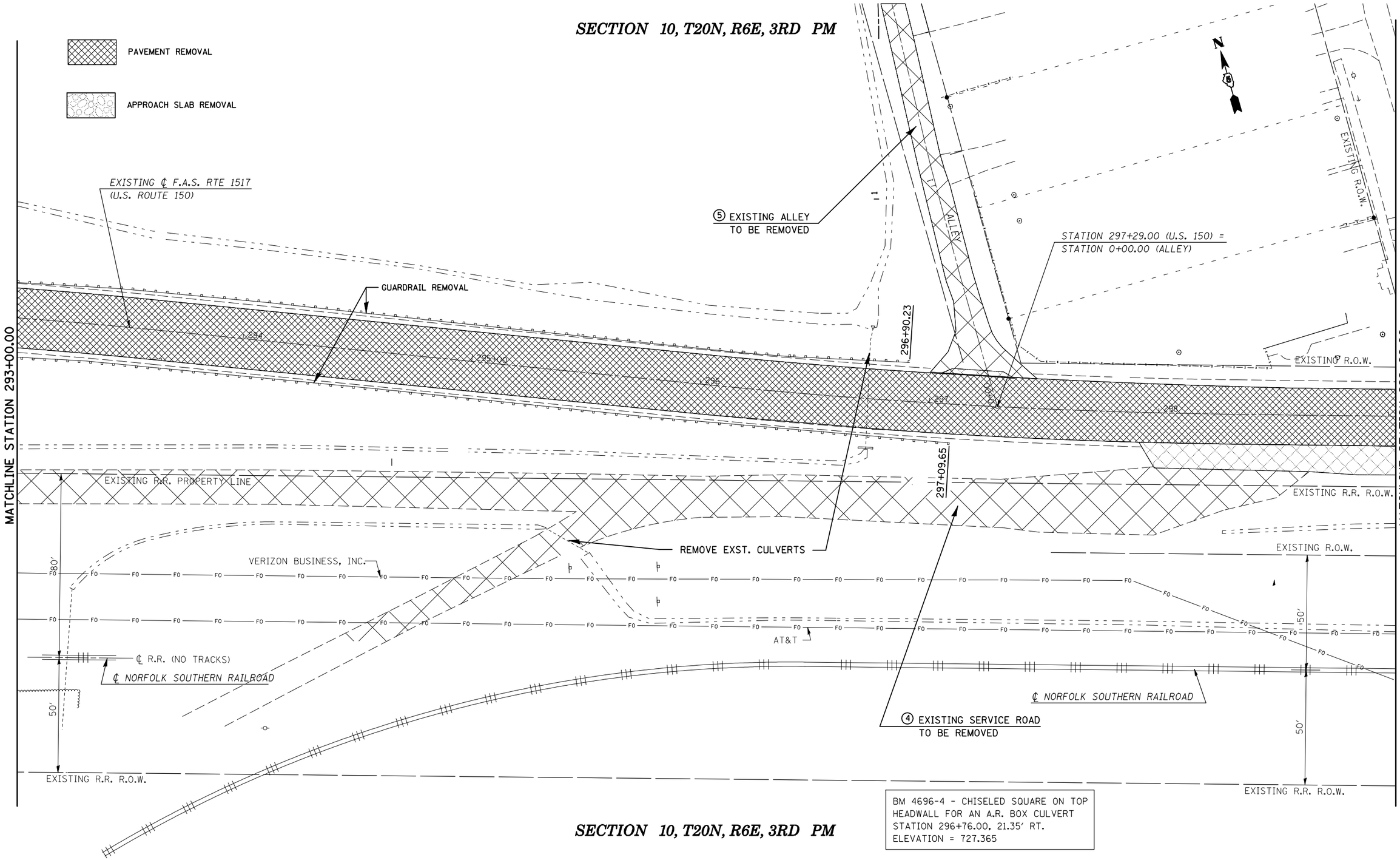
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

SCALE: 1" = 20' | SHEET NO. 6 OF 8 SHEETS | STA. 287+00.00 TO STA. 293+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	56
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 10, T20N, R6E, 3RD PM



BM 4696-4 - CHISELED SQUARE ON TOP
HEADWALL FOR AN A.R. BOX CULVERT
STATION 296+76.00, 21.35' RT.
ELEVATION = 727.365

SECTION 10, T20N, R6E, 3RD PM

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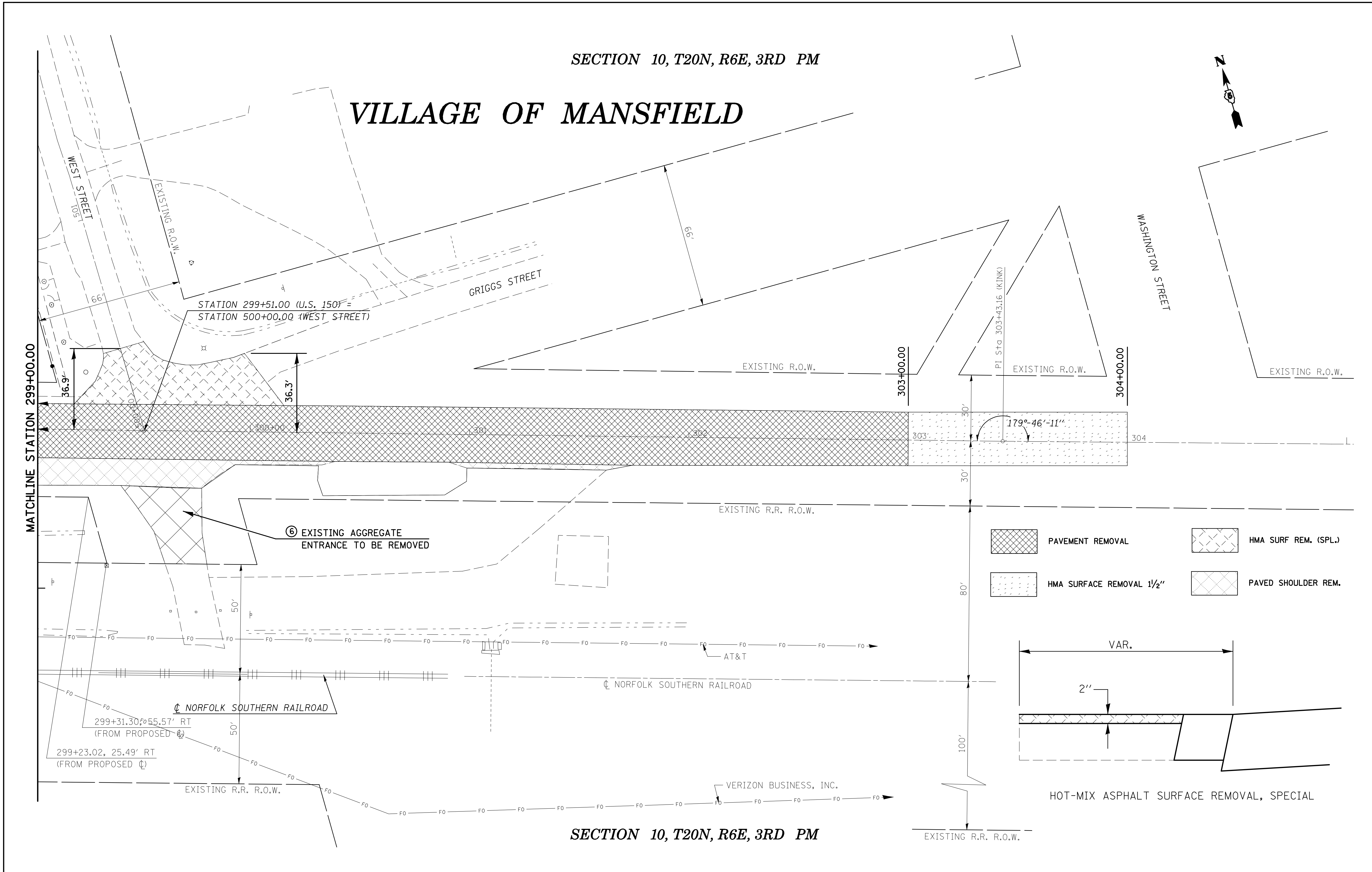
	PLOT DATE = 10/13/2009	DATE - 051909	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

SCALE: 1" = 20' | SHEET NO. 7 OF 8 SHEETS | STA. 293+00.00 TO STA. 299+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	57
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = 10/13/2009	DATE - 051909	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

SCALE: 1" = 20' | SHEET NO. 8 OF 8 SHEETS | STA. 299+00.00 TO STA. 304+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	58
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

28000305 TEMPORARY DITCH CHECKS

STATION	O/S	EACH
US 150		
273+00.00	23.14' LT	1.0
273+00.00	23.40' RT	1.0
276+00.00	26.91' LT	1.0
276+00.00	28.90' RT	1.0
278+00.00	27.80' LT	1.0
278+00.00	28.60' RT	1.0
280+50.00	30.97' LT	1.0
280+50.00	26.48' RT	1.0
283+00.00	71.40' LT	1.0
283+00.00	45.45' RT	1.0
285+50.00	92.97' LT	1.0
285+50.00	63.21' RT	1.0
288+00.00	65.40' RT	1.0
290+50.00	71.50' RT	1.0
293+00.00	88.30' RT	1.0
295+00.00	77.06' LT	1.0
295+00.00	62.20' RT	1.0
297+50.00	29.70' RT	1.0
298+00.00	23.30' LT	1.0
301+50.00	18.07' LT	1.0
304+00.00	19.48' LT	1.0
304+00.00	29.93' RT	1.0
SUB-TOTAL =		22.0
ALLEY		
0+50.00	37.4' LT	1.0
3+00.00	19.27' LT	1.0
SUB-TOTAL =		2.0
TOTAL =		24.0
AVERAGE LENGTH =		6.0
TOTAL LENGTH =		144.0

28000400 PERIMETER EROSION BARRIER

	STATION	TO	STATION	FOOT
US 150				
LT	273+00.00	LT	288+73.60	1678.6
RT	273+00.00	RT	289+12.99	1628.3
LT	297+36.86	LT	304+00.00	574.4
RT	289+75.00	RT	304+00.00	1448.8
			SUB-TOTAL =	5330.1
ALLEY				
RT	0+28.63	RT	4+00.00	286.4
RT	4+00.00	RT	289+28.11	470.8
			SUB-TOTAL =	757.2
			TOTAL =	6087.3
			USE =	6087.0

28000500 INLET AND PIPE PROTECTION

STATION	O/S	EACH
US 150		
275+00.00	20.72' LT	1.0
ALLEY		
1+52.04	23.00' RT	1.0
TOTAL =		2.0

DETAIL NOTES:

1. CLASS 7 SEEDING SHALL BE USED ALONG WITH CLASS 2 SEEDING. IT IS THE INTENT OF THE CLASS 7 SEEDING TO BE PLACED ALONG WITH THE CLASS 2 SEEDING TO PROMOTE ACCELERATED VEGETATION GROWTH.

2. THE LOCATIONS OF PERIMETER EROSION BARRIER AND THE TEMPORARY DITCH CHECKS MAY BE ADJUSTED BY THE ENGINEER DUE TO DIFFERING FIELD CONDITIONS.

3. EROSION CONTROL BLANKET SHALL BE USED IN THE AREAS WHERE THE FORESLOPES ARE 1:2 OR STEEPER. MULCH METHOD 2 SHALL BE USED IN ALL OTHER AREAS WHERE SEEDING IS SPECIFIED ON THE DETAILS AND AS SHOWN ON THE CROSS-SECTIONS.

LANDSCAPING SCHEDULE

	STATION	TO	STATION	AREA ACRE	28000250 TEMPORARY EROSION SEEDING POUND	25000200 SEEDING CLASS 2 ACRE	25000350 SEEDING CLASS 7 ACRE	25000400 NITROGEN FERT. NUT. POUNDS	25000500 PHOSP. FERT. NUT. POUNDS	25000600 POTAS. FERT. NUT. POUNDS	25100115 MULCH METHOD 2 ACRE	25100630 EROSION CONTROL BLANKET SQ YD
US 150												
LT	276+00.00	LT	289+00.00	1.7	170.0	1.7	1.7	153.0	153.0	153.0	0.8	4255.8
RT	276+00.00	RT	289+00.00	1.6	160.0	1.6	1.6	144.0	144.0	144.0	1.0	2926.6
LT	289+50.00	LT	304+00.00	1.8	180.0	1.8	1.8	162.0	162.0	162.0	0.9	4524.4
RT	289+50.00	RT	304+00.00	2.0	200.0	2.0	2.0	180.0	180.0	180.0	1.2	3674.5
			SUB-TOTAL =	710.0	7.1	7.1	639.0	639.0	639.0	3.9	15381.3	
ALLEY												
LT	0+37.50	LT	3+75.00	0.2	20.0	0.2	0.2	18.0	18.0	18.0	0.2	0.0
RT	0+37.50	RT	3+75.00	0.1	10.0	0.1	0.1	9.0	9.0	9.0	0.1	0.0
			SUB-TOTAL =	30.0	0.3	0.3	27.0	27.0	27.0	0.3	0.0	
			TOTAL =	740.0	7.4	7.4	666.0	666.0	666.0	4.2	15381.3	
			USE =	740.0	8.0	8.0	666.0	666.0	666.0	5.0	15381.0	

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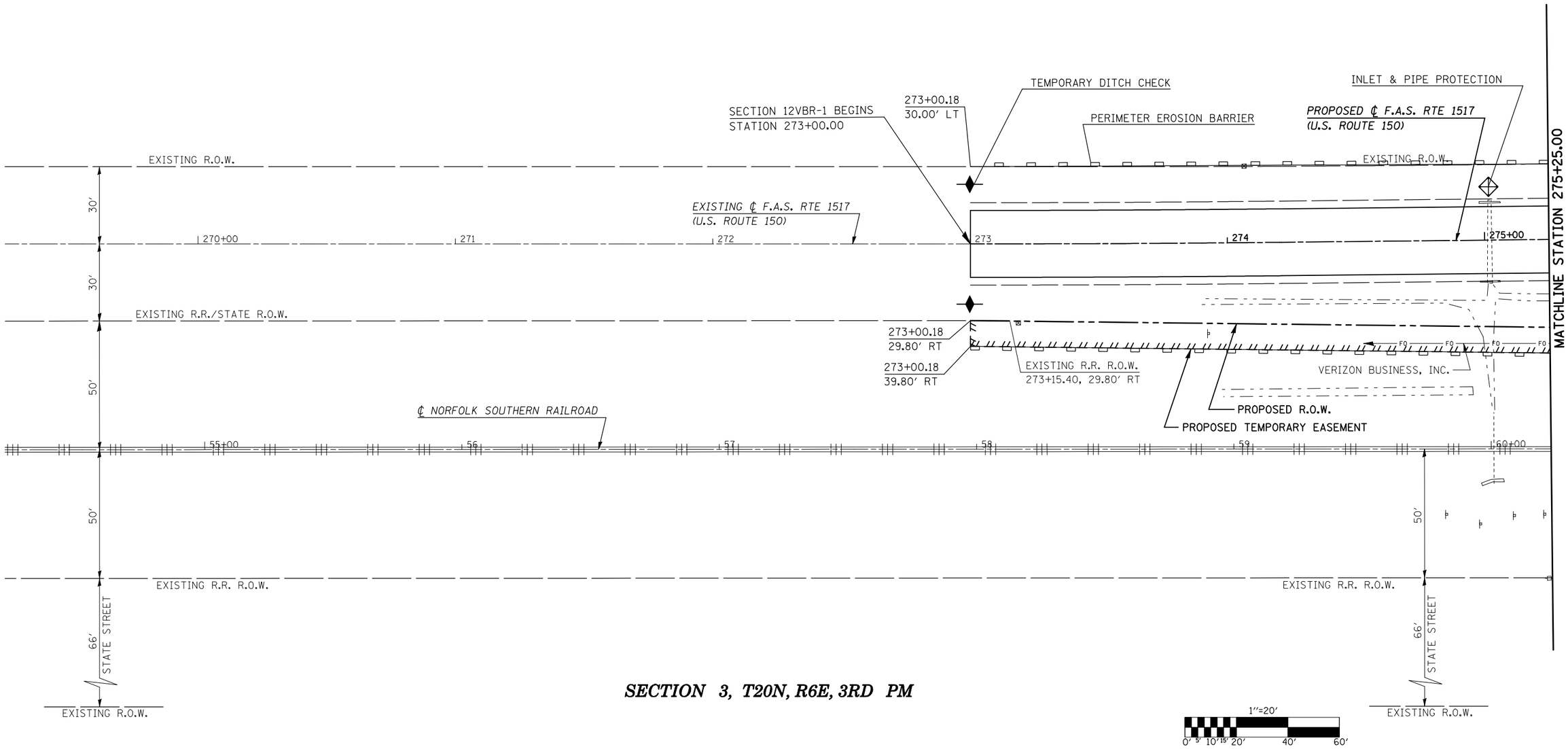
	PLOT SCALE = 40.0000 ' / IN.	DRAWN - JRP	REVISED -							CONTRACT NO. 70388
	PLOT DATE = 10/13/2009	CHECKED -	REVISED -		SCALE: 1" = 20' SHEET NO. 1 OF 9 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		DATE - 03-25-2008	REVISED -							

SECTION 3, T20N, R6E, 3RD PM



SECTION 3, T20N, R6E, 3RD PM

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: 1" = 20' | SHEET NO. 2 OF 9 SHEETS | STA. TO STA.

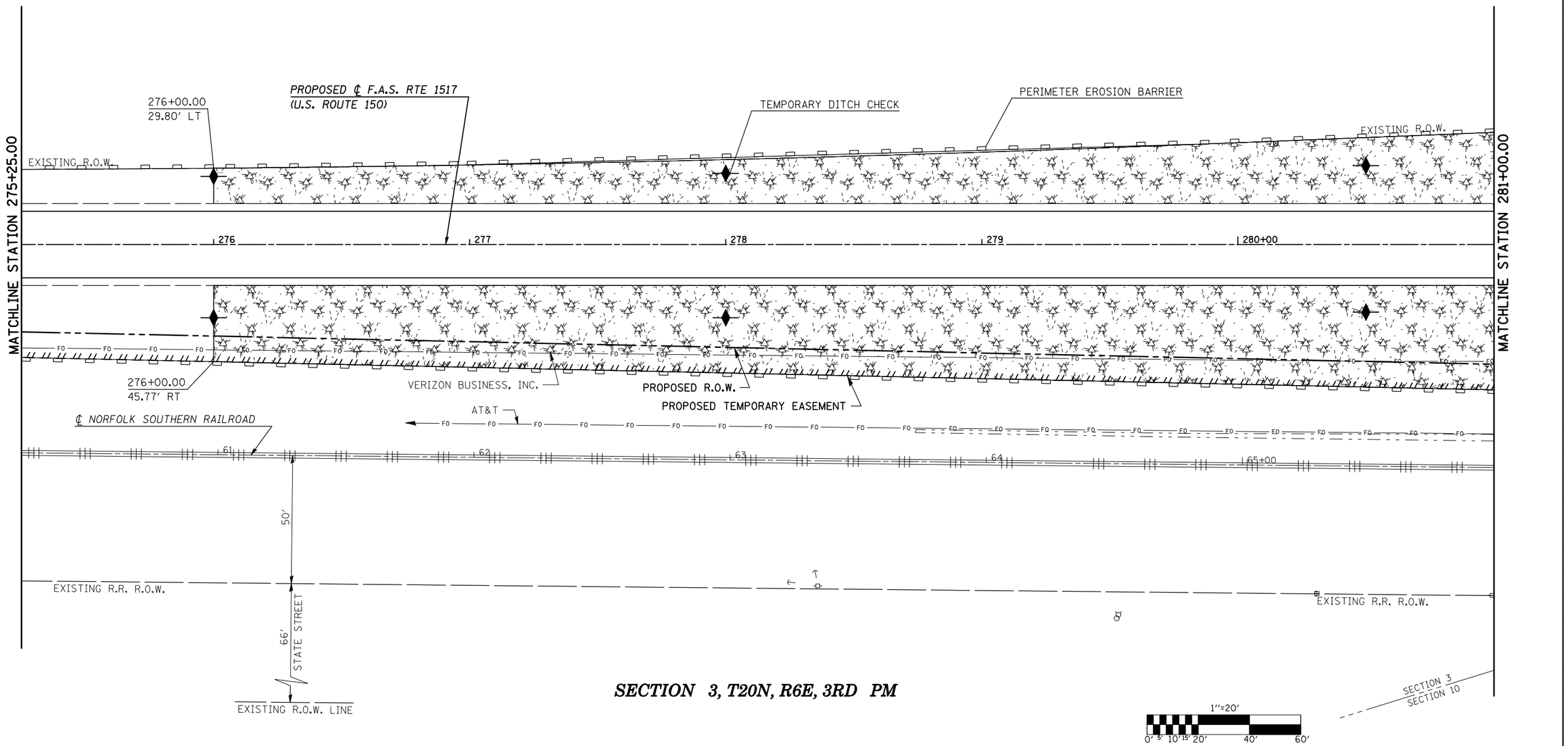
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	60
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEEDING, CLASS 2

SEEDING, CLASS 7

MULCH, METHOD 2

SECTION 3, T20N, R6E, 3RD PM



SECTION 3, T20N, R6E, 3RD PM

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: 1" = 20' | SHEET NO. 3 OF 9 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	61
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 3, T20N, R6E, 3RD PM

EX R.O.W. MARKER
282+04.98, 169.12' LT
(FROM PROPOSED ℄)

SEEDING, CLASS 2

SEEDING, CLASS 7

MULCH, METHOD 2

EROSION CONTROL BLANKET

282+48.00
80.18' LT

282+48.00
49.78' LT

283+04.64
72.76' LT

PROPOSED ℄ F.A.S. RTE 1517
(U.S. ROUTE 150)

283+49.77
62.05' LT

284+00.00
67.99' LT

284+00.00
48.91' LT

285+00.00
93.84' LT

TEMPORARY DITCH CHECK

PERIMETER EROSION BARRIER

EX R.O.W. MARKER
282+39.44, 48.72' LT
(FROM PROPOSED ℄)

EXISTING R.O.W.

MATCHLINE STATION 281+00.00

MATCHLINE STATION 287+00.00

282 283 284 285+00 286

VERIZON BUSINESS, INC.

RSS WALL

PROPOSED R.O.W.
PROPOSED TEMPORARY EASEMENT

AT&T

66 67 68 69 70+00 71

℄ NORFOLK SOUTHERN RAILROAD

283+00.00
61.20' RT

284+00.00
57.96' RT

285+50.00
60.00' RT

285+50.00
83.71' RT

286+00.00
43.00' RT

286+00.00
54.00' RT

50'

EXISTING R.R. R.O.W.

EXISTING R.R. R.O.W.

66' STATE ST.

EXISTING R.O.W.

SECTION 10, T20N, R6E, 3RD PM

1"=20'
0' 5' 10' 15' 20' 40' 60'

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		DRAWN - JRP	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: 1" = 20' | SHEET NO. 4 OF 9 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	62
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 3, T20N, R6E, 3RD PM

288+62.37
184.67′ LT

PROPOSED PERMANENT EASEMENT

PERIMETER EROSION BARRIER

288+00.00
104.59′ LT

288+50.00
80.30′ LT

288+73.60
118.77′ LT

EXISTING R.R. R.O.W.

33′

33′

SALT SHED

EQUIPMENT SHED

289+77.78
114.19′ LT

290+00.00
79.10′ LT

291+00.00
119.40′ LT

292+00.00
110.57′ LT

6°-55′-48″

9°-42′-41″

MATCHLINE STATION 287+00.00

288

289

290+00

291

292

PROPOSED ℄ F.A.S. RTE 1517
(U.S. ROUTE 150)

MATCHLINE STATION 293+00.00

35′-2″
0. to 0.

14′

RSS WALL

VERIZON BUSINESS, INC.

AT&T

TEMPORARY DITCH CHECK

288+45.00
51.00′ RT

288+82.00
66.00′ RT

289+09.24
77.31′ RT

289+12.99
87.35′ RT

289+44.49
87.67′ RT

289+75.00
67.00′ RT

MANHOLE

BURIED AT&T

290+09.00
55.00′ RT

290+50.00
56.00′ RT

291+00.00
61.40′ RT

292+50.00
69.00′ RT

PROPOSED TEMPORARY EASEMENT

PERIMETER EROSION BARRIER

PROPOSED PERMANENT EASEMENT

BLDG

289+45.86, 95.68′ RT
(RR ℄'s INTERSECT)

50′

66′
STATE ST.

EXISTING R.R. R.O.W.

EXISTING R.R. R.O.W.

SEEDING, CLASS 2

SEEDING, CLASS 7

MULCH, METHOD 2

EROSION CONTROL BLANKET

SECTION 10, T20N, R6E, 3RD PM

1″=20′
0′ 5′ 10′ 15′ 20′ 40′ 60′

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

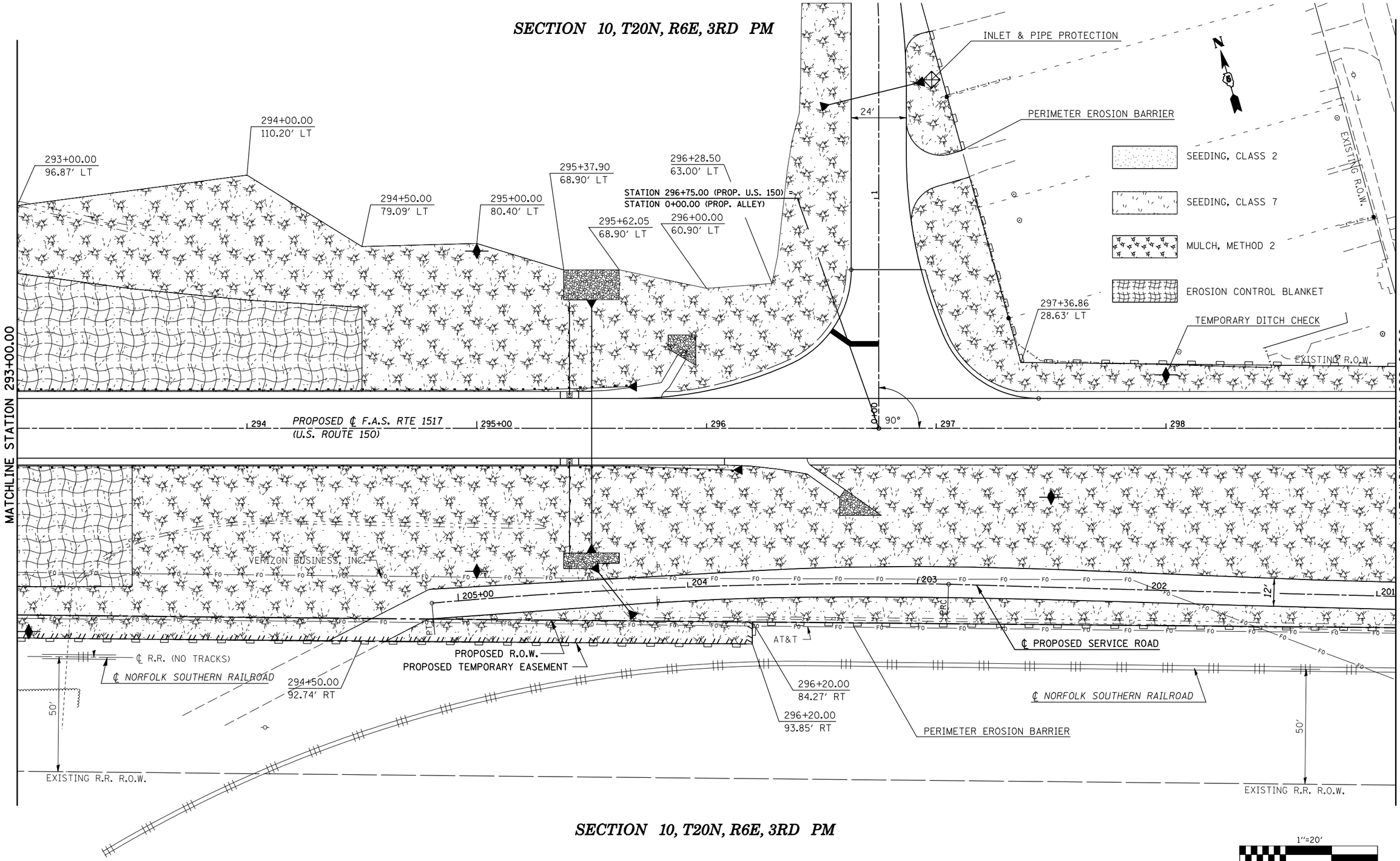
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: 1″ = 20′ | SHEET NO. 5 OF 9 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	63
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 10, T20N, R6E, 3RD PM



SECTION 10, T20N, R6E, 3RD PM

1"=20'
0' 5' 10' 15' 20' 40' 60'

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

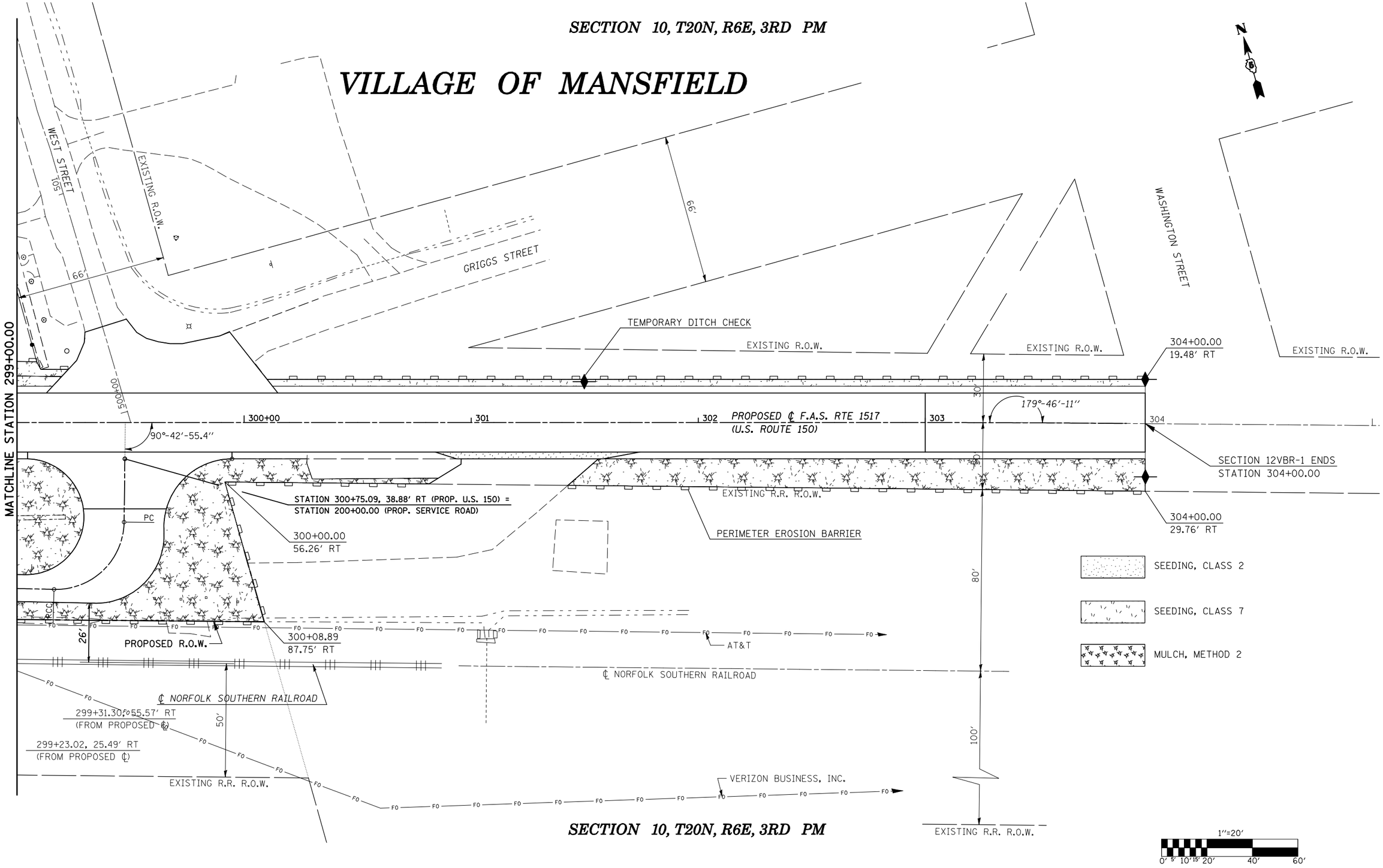
EROSION CONTROL DETAILS

SCALE: 1" = 20' | SHEET NO. 6 OF 9 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	64
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 10, T20N, R6E, 3RD PM

VILLAGE OF MANSFIELD



SECTION 10, T20N, R6E, 3RD PM

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

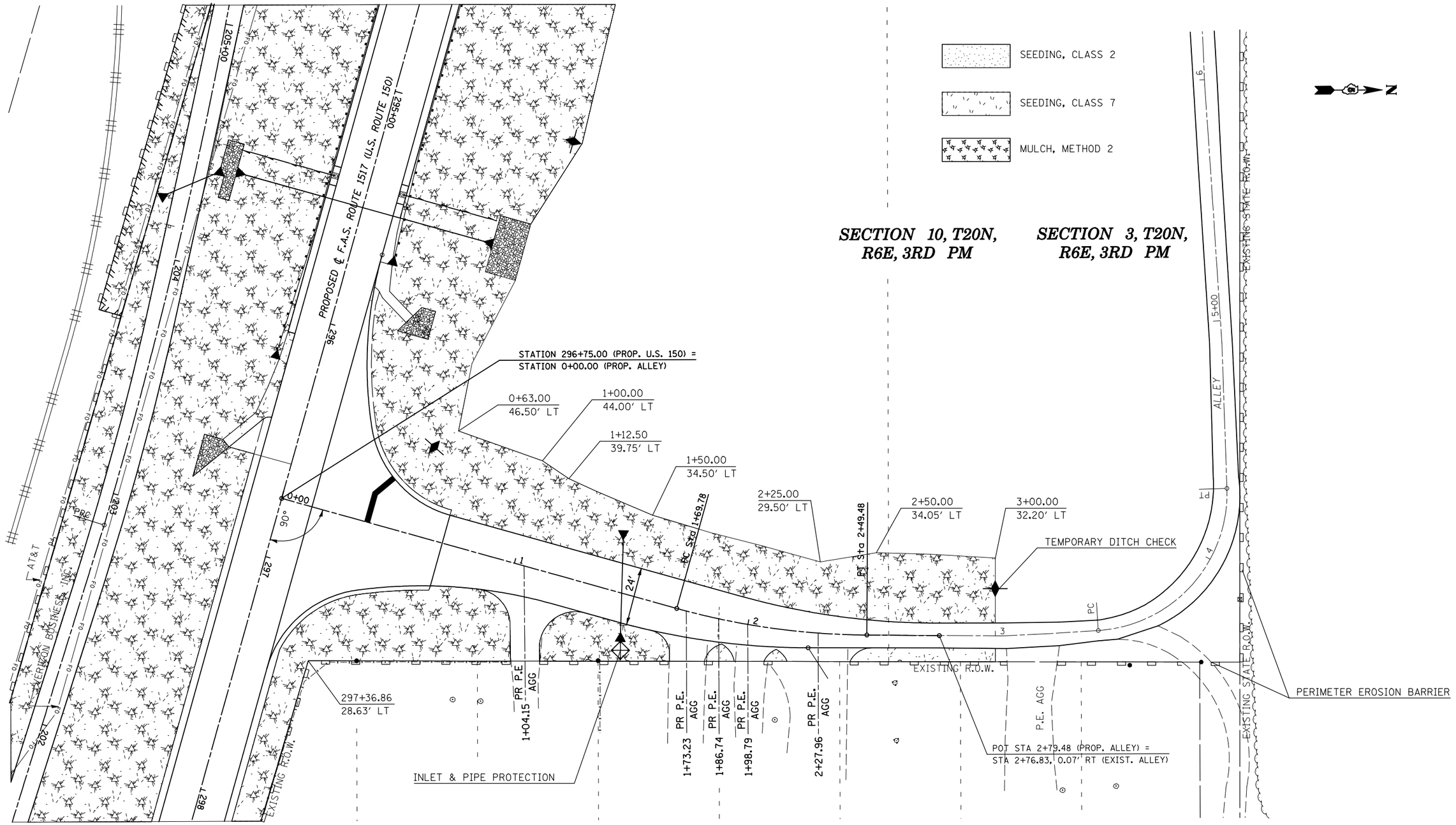
EROSION CONTROL DETAILS

SCALE: 1" = 20' | SHEET NO. 7 OF 9 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	65

CONTRACT NO. 70388

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

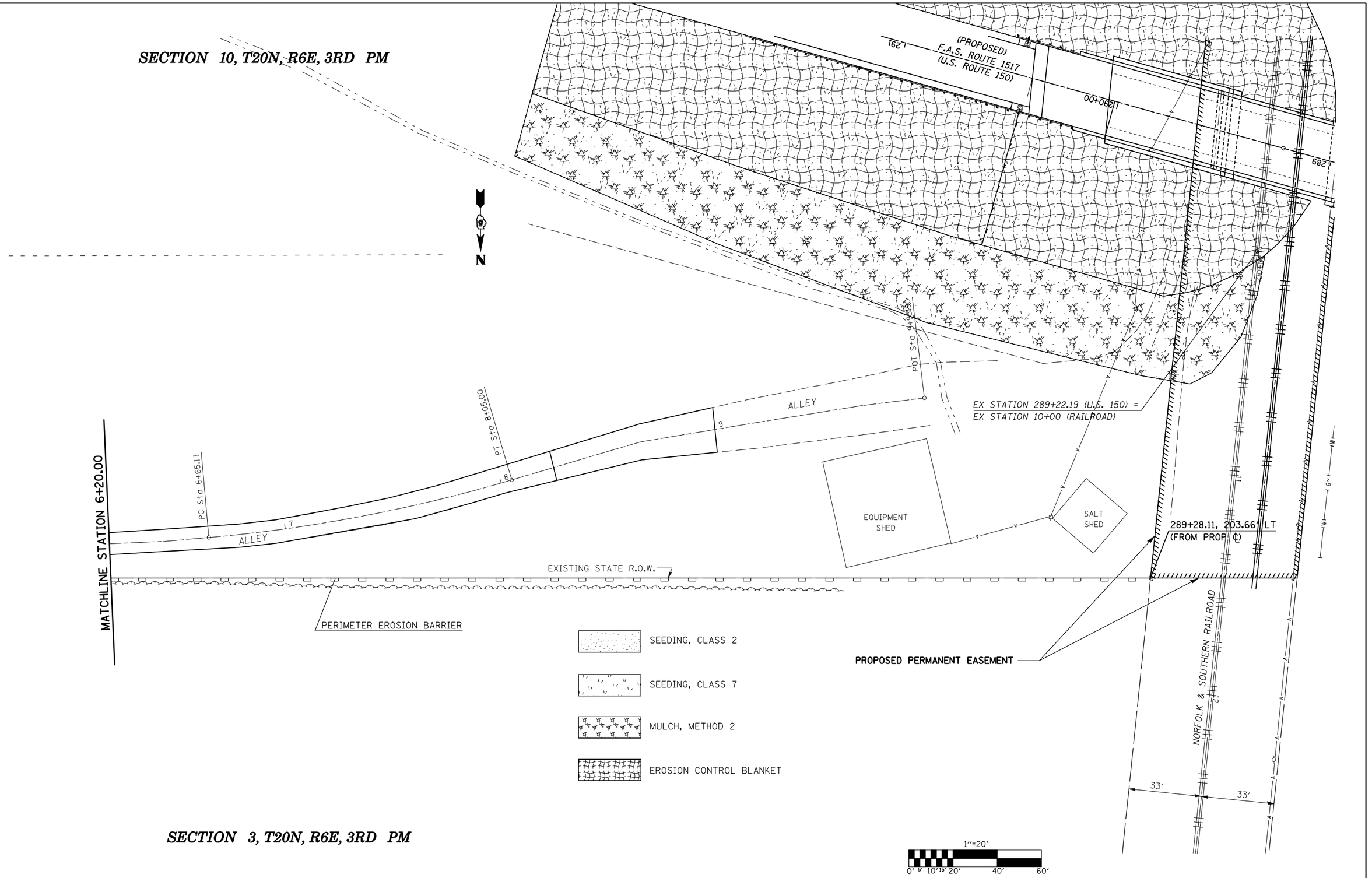
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: 1" = 20' | SHEET NO. 8 OF 9 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	66
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 10, T20N, R6E, 3RD PM



SECTION 3, T20N, R6E, 3RD PM

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	PLOT DATE = 10/13/2009	DATE - 03-25-2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: 1" = 20' | SHEET NO. 9 OF 9 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	67
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHOULDER DRAIN SCHEDULE

	STATION	0/S	60208240 CATCH BASINS, TYPE C TYPE 24 FRAME & GRATE O/S RIM	RIM ELEV	INVERT ELEV	54213447 END SECTIONS 12" EACH	60100945 PIPE DRAINS 12" FOOT	60208240 CB TC T24 F&G EACH	60900515 CONC THRUS BLOCKS EACH
1	283+04.38	15.33' LT	14.08'	737.48	732.78	1.0	57.0	1.0	1.0
2	283+04.38	15.33' RT	14.08'	737.48	732.78	1.0	27.0	1.0	1.0
3	285+54.38	15.33' LT	14.08'	748.24	743.54	1.0	67.0	1.0	1.0
4	285+54.38	15.33' RT	14.08'	748.24	743.54	1.0	61.0	1.0	1.0
5	287+97.64	15.33' LT	14.08'	756.47	751.77	1.0	86.0	1.0	1.0
6	288+02.12	15.33' RT	14.08'	756.47	751.77	1.0	83.0	1.0	1.0
7	290+42.16	15.33' LT	14.08'	756.37	751.67	1.0	93.0	1.0	1.0
8	290+46.64	15.33' RT	14.08'	756.37	751.67	1.0	84.0	1.0	1.0
9	292+90.38	15.33' LT	14.08'	747.94	743.24	1.0	72.0	1.0	1.0
10	292+90.38	15.33' RT	14.08'	747.94	743.24	1.0	71.0	1.0	1.0
11	295+40.38	15.33' LT	14.08'	735.56	730.86	1.0	44.0	1.0	1.0
12	295+40.38	15.33' RT	14.08'	735.56	730.86	1.0	45.0	1.0	1.0
					TOTAL =	12.0	790.0	12.0	12.0

ACROSS ROAD/ ENTRANCE CULVERT SCHEDULE

STATION	54213447 END SECTIONS 15" EACH	54215418 CIP RC END SEC 18" EACH	542A0223 P CUL CL A 1 18" FOOT	542A1063 P CUL CL A 2 18" FOOT	542D0220 P CUL CL D 1 15" FOOT
US 150					
295+50.00	-	2.0	-	104.0	
ACCESS RD					
204+32.65	-	2.0	21.0	-	
ALLEY					
1+46.11	2.0	-	-	-	21
TOTAL =	2.0	4.0	21.0	104.0	21.0

28100105 STONE RIPRAP, CLASS A3

STATION		LENGTH FT	WIDTH FT	AREA SQ YD
282+47.87	LT	19.6	VAR	15.0
282+47.87	RT	19.6	VAR	15.0
295+50.00	LT	24.2	13.0	35.0
295+50.00	RT	24.2	VAR	15.0
295+89.31	LT	12.0	VAR	12.8
296+60.31	RT	18.1	VAR	13.0
			TOTAL =	105.8
			USE =	106.0

60602500 CONCRETE GUTTER, TYPE A

	STATION	TO		STATION	FOOT
LT	282+47.87		LT	283+00.00	54.0
RT	282+47.87		RT	283+00.00	54.0
LT	295+44.38		LT	295+91.02	51.0
RT	296+07.80		RT	296+60.31	54.0
				TOTAL =	213.0

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		DRAWN - JMS	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2009	DATE - 071409	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF DRAINAGE

SCALE: 1" = 20' | SHEET NO. 1 OF 4 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	68
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

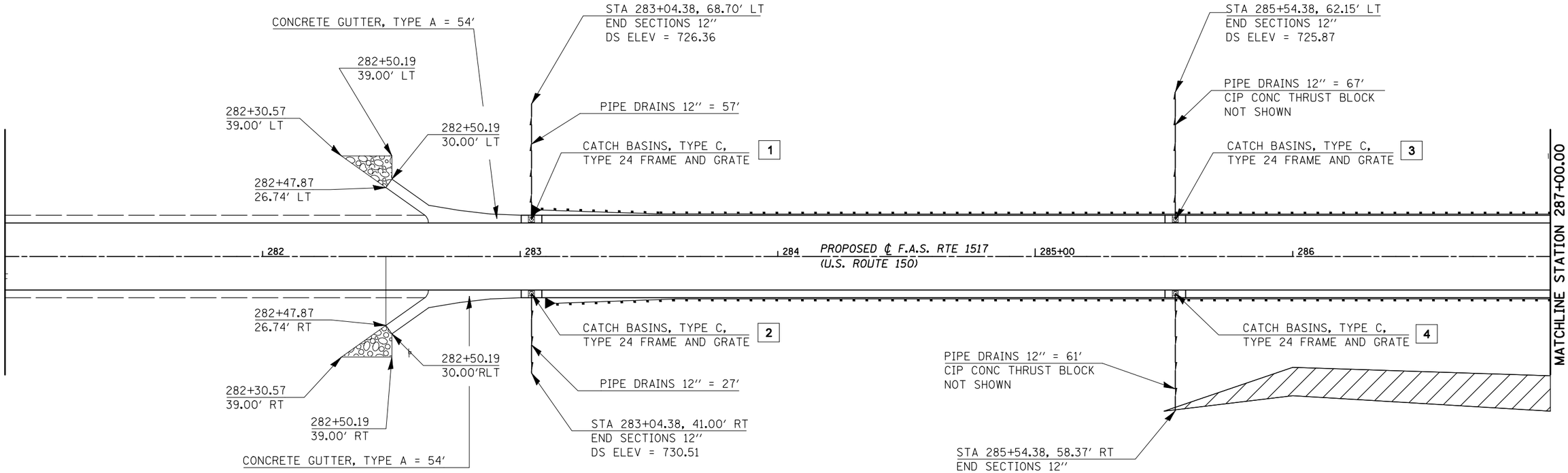
DETAIL NOTES:

SEE DETAIL FOR SHOULDER INLETS WITH CURB AND APPLICABLE PORTIONS OF HIGHWAY STANDARD 610001-04 FOR DETAILS ON TYPE 24 FRAME AND GRATE, PIPE DRAINS 12".

LOCATIONS AND DIMENSIONS FOR STONE RIP RAP, CLASS A3 MAY VARY AND BE ADJUSTED IN THE FIELD BY THE ENGINEER.

SEE SHEET 16 FOR LOCATIONS OF HMA SHOULDER CURB

SECTION 3, T20N, R6E, 3RD PM



STONE RIP RAP, CLASS A3

SECTION 10, T20N, R6E, 3RD PM

1"=20'

0' 5' 10' 15' 20' 40' 60'

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	PLOT DATE = 10/13/2009	DATE - 071409	REVISED -

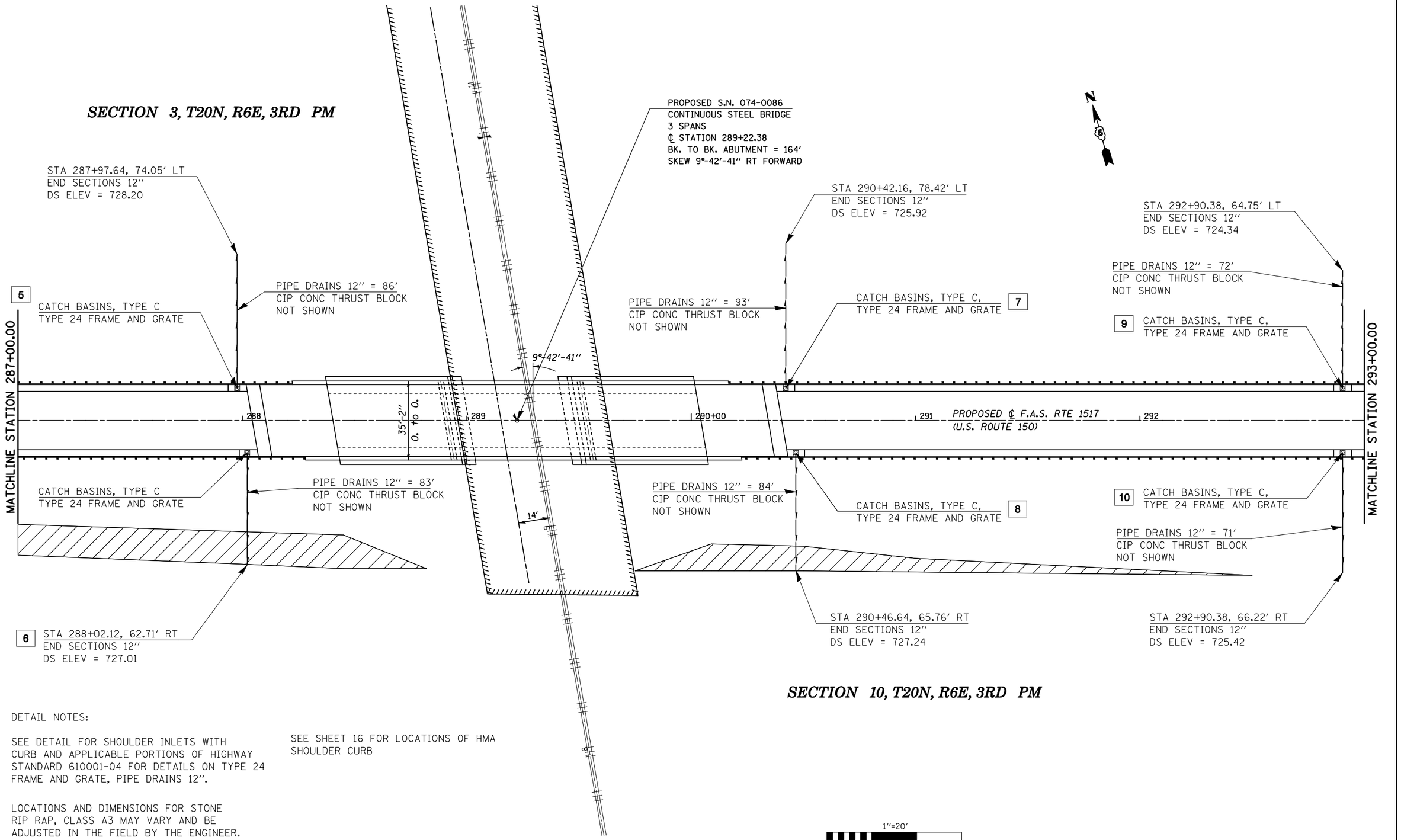
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

SCALE: 1" = 20' | SHEET NO. 2 OF 4 SHEETS | STA. 281+00.00 TO STA. 287+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	69
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION 3, T20N, R6E, 3RD PM



SECTION 10, T20N, R6E, 3RD PM

DETAIL NOTES:

SEE DETAIL FOR SHOULDER INLETS WITH CURB AND APPLICABLE PORTIONS OF HIGHWAY STANDARD 610001-04 FOR DETAILS ON TYPE 24 FRAME AND GRATE, PIPE DRAINS 12″.

LOCATIONS AND DIMENSIONS FOR STONE RIP RAP, CLASS A3 MAY VARY AND BE ADJUSTED IN THE FIELD BY THE ENGINEER.

SEE SHEET 16 FOR LOCATIONS OF HMA SHOULDER CURB

1″=20′

0′ 5′ 10′ 15′ 20′ 40′ 60′

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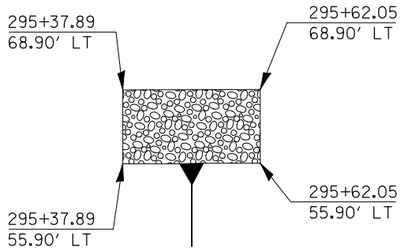
	PLOT DATE = 10/13/2009	DATE - 071409	REVISED -

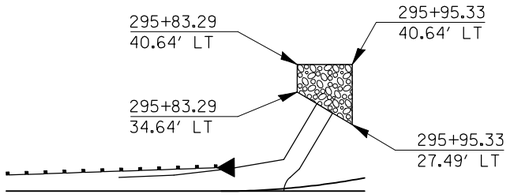
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

SCALE: 1″ = 20′ | SHEET NO. 3 OF 4 SHEETS | STA. 287+00.00 TO STA. 293+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	70
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





DETAIL NOTES:

SEE DETAIL FOR SHOULDER INLETS WITH CURB AND APPLICABLE PORTIONS OF HIGHWAY STANDARD 610001-04 FOR DETAILS ON TYPE 24 FRAME AND GRATE, PIPE DRAINS 12".

LOCATIONS AND DIMENSIONS FOR STONE RIP RAP, CLASS A3 MAY VARY AND BE ADJUSTED IN THE FIELD BY THE ENGINEER.

SEE SHEET 16 FOR LOCATIONS OF HMA SHOULDER CURB

SECTION 10, T20N, R6E, 3RD PM

STA 1+40.83, 21.50' LT
END SECTIONS 15"
DS ELEV = 723.35

STA 1+50.00, 15.82' RT
END SECTIONS 15"
US ELEV = 723.41

24'

PIPE CULVERTS, CLASS D, TYPE 1 15" = 21'

STATION 296+75.00 (PROP. U.S. 150) =
STATION 0+00.00 (PROP. ALLEY)

1:1

STA 295+40.38, 52.50' LT
END SECTIONS 12"
DS ELEV = 723.25

PIPE DRAINS 12" = 44'

CONCRETE GUTTER, TYPE A = 25'

11 CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE

MATCHLINE STATION 293+00.00

294 | *PROPOSED ℄ F.A.S. RTE 1517* *(U.S. ROUTE 150)* | 295+00 | 296 | 0+00 | 90° | 297 | 298

MATCHLINE STATION 299+00.00

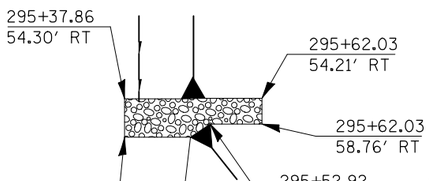
CATCH BASINS, TYPE C,
TYPE 24 FRAME AND GRATE

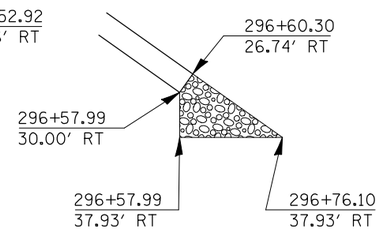
PIPE DRAINS 12" = 45'

CONCRETE GUTTER, TYPE A = 54'

12 STA 295+40.38, 54.16' RT
END SECTIONS 12"
DS ELEV = 723.03

205+00 | 204 | 203 | 202 | 201





STA 295+50.00 PROPOSED A.R. CULVERT
PIPE CULVERTS, CLASS A, TYPE 2 18" = 104'
USFL 51.67' LT, ELEV = 723.25
DSFL 50.06' RT, ELEV = 723.03
CAST-IN-PLACE REINFORCED CONCRETE
END SECTIONS 18" = 2 EACH

STONE RIP RAP, CLASS A3

STA 204+32.65 PROP. A.R. CULVERT
PIPE CULVERTS, CLASS A, TYPE 1 18" = 21'
USFL 204+38.18, 8.40' RT, ELEV = 723.08
DSLF 204+26.24, 8.94' LT, ELEV = 723.08
CAST-IN-PLACE REINFORCED CONCRETE
END SECTIONS 18" = 2 EACH

SECTION 10, T20N, R6E, 3RD PM

1"=20'
0' 5' 10' 15' 20' 40' 60'

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	PLOT DATE = 10/13/2009	DATE - 071409	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

SCALE: 1" = 20' | SHEET NO. 4 OF 4 SHEETS | STA. 293+00.00 TO STA. 299+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	71
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

63000001 STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS

	STATION	TO	STATION	LENGTH FT	78200405 GUARDRAIL MRKS EACH
LT	283+54.22		287+79.22	425.00	6.0
RT	283+59.75		287+84.75	425.00	5.0
LT	290+60.01		295+22.51	462.50	6.0
RT	290+65.49		295+77.99	512.50	7.0
			TOTAL =	1825.00	24.00

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6

	STATION	TO	STATION	EACH
LT	287+79.22		288+24.92	1.0
RT	287+84.75		288+30.40	1.0
LT	290+14.36		290+60.01	1.0
RT	290+19.84		290+65.49	1.0
			TOTAL =	4.0

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

	STATION	TO	STATION	EACH	78201000 TERM MK DA EACH
LT	283+04.22		283+54.22	1.0	1.0
RT	283+09.75		283+59.75	1.0	1.0
LT	295+22.51		295+72.51	1.0	1.0
RT	295+77.99		296+27.99	1.0	1.0
			TOTAL =	4.0	4.0

78200500 BARRIER WALL MARKERS

	STATION	TO	STATION	EACH
LT	288+39.68		289+99.14	2.0
RT	288+45.15		290+04.62	2.0
			TOTAL =	4.0

DETAIL NOTES

Drawings are not to scale.

Engineer shall verify all existing guardrail quantities in the field prior to beginning work.

All guardrail work shown in the details shall conform to various specifications, details, standards and specifications.

Shoulder Widening for Type 1 (Special) Terminals shall be constructed prior to construction of new guardrail. See Standard 630301-05 for Details.

Shoulder Widening shall be seeded with Class 2A and Class 7 Seed after completion.

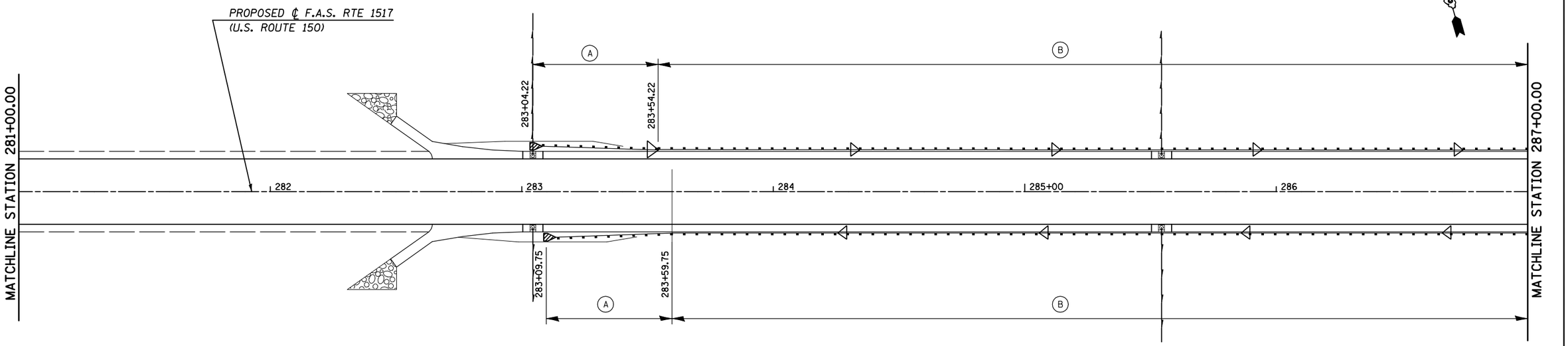
No rock, stones, millings, or broken concrete shall be permitted within a vertical distance of 12" from the surface of the finished grade of the shoulder widening.

- (A) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (B) STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FT POST
- (C) TRAFFIC BARRIER TERMINAL, TYPE 6

* GUARDRAIL MARKERS

- ◁ GUARDRAIL MARKERS
- ◀ BARRIER WALL MARKERS
- ▱ TERMINAL MARKER DA

* SEE STD(S): 635006-03
635011-02



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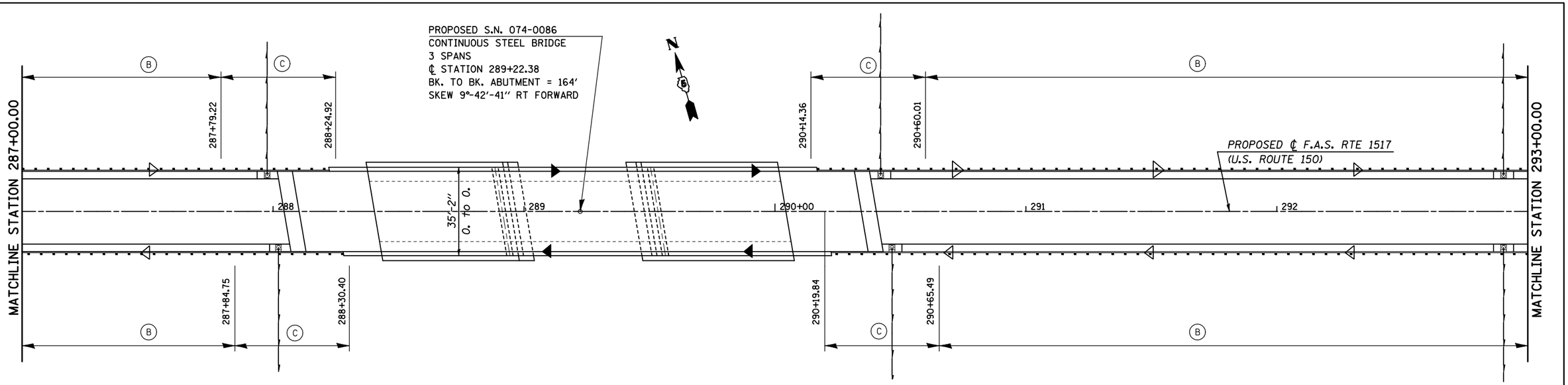
	PLOT SCALE = 40.0000 ' / IN.	DRAWN - JMS	REVISED -			1517	12VBR-1	PIATT	168	72
	PLOT DATE = 10/13/2009	CHECKED -	REVISED -					CONTRACT NO. 70388		
		DATE - 070909	REVISED -		SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

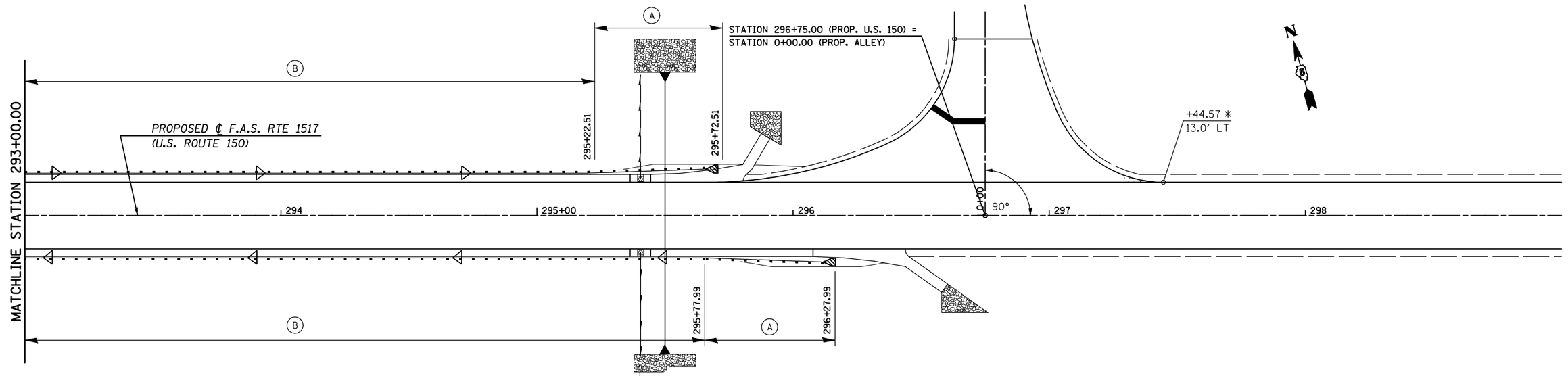


DETAIL NOTES	
Drawings are not to scale. Engineer shall verify all existing guardrail quantities in the field prior to beginning work. All guardrail work shown in the details shall conform to various specifications, details, standards and specifications.	Shoulder Widening for Type 1 (Special) Terminals shall be constructed prior to construction of new guardrail. See Standard 630301-05 for Details. Shoulder Widening shall be seeded with Class 2A and Class 7 Seed after completion. No rock, stones, millings, or broken concrete shall be permitted within a vertical distance of 12" from the surface of the finished grade of the shoulder widening.

- (A) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (B) STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FT POST
- (C) TRAFFIC BARRIER TERMINAL, TYPE 6

* GUARDRAIL MARKERS
◁ GUARDRAIL MARKERS
◀ BARRIER WALL MARKERS
▨ TERMINAL MARKER DA

* SEE STD(S): 635006-03
635011-02



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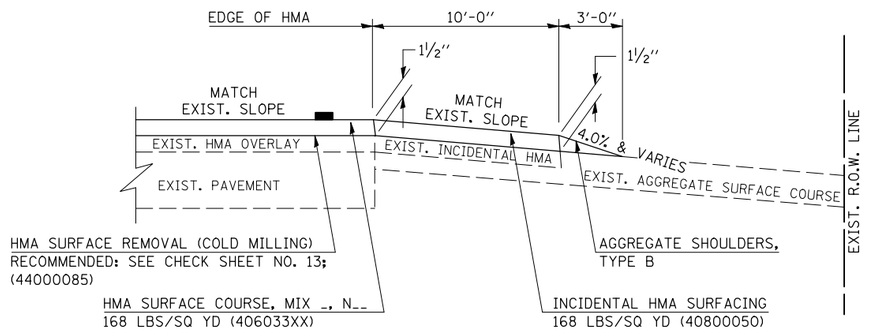
	PLOT SCALE = 40.0000 ' / IN.	DRAWN - JMS	REVISED -					1517	12VBR-1	PIATT	168	73
	PLOT DATE = 10/13/2009	CHECKED -	REVISED -							CONTRACT NO. 70388		
		DATE - 070909	REVISED -		SCALE: 1" = 20'	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROJECTS WITHOUT RECONSTRUCTION

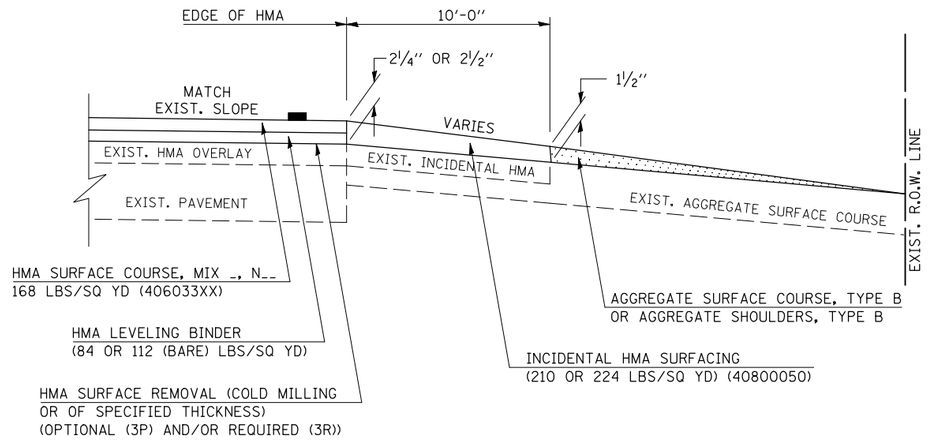
DESIGNER NOTE: SEE PLAN PREPARATION MEMORANDUM 40-09

S.M.A.R.T. IMPROVEMENTS
(POLICY RESURFACING; BDE 53-4.03; 1½")

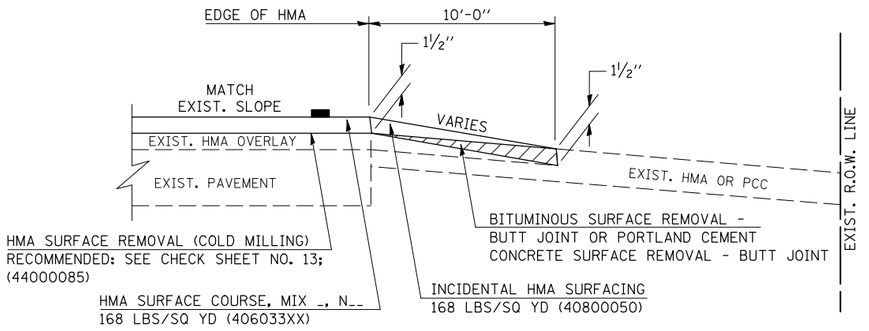


EXISTING AGGREGATE ENTRANCE

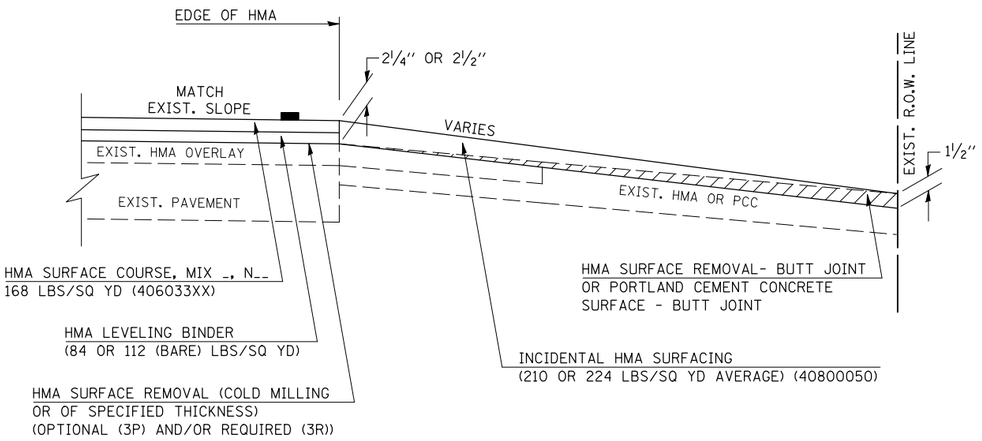
"3P" OR "3R" IMPROVEMENTS
(POLICY RESURFACING; BDE 53-4.02; 2¼" OR 2½" ON BARE CONCRETE)



EXISTING AGGREGATE ENTRANCE



EXISTING HMA OR PCC ENTRANCE



EXISTING HMA OR PCC ENTRANCE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 40800050C

FILE NAME = c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-details.dgn	USER NAME = shererjm	DESIGNED -	REVISED - 12/08/06 TJB	
		DRAWN -	REVISED - 09/21/07 KAG	
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED - 05/02/08 KJT	
	PLOT DATE = 10/13/2009	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRIVATE AND COMMERCIAL ENTRANCES
(NONCOMMERCIAL AND COMMERCIAL RURAL)

SCALE: NA | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

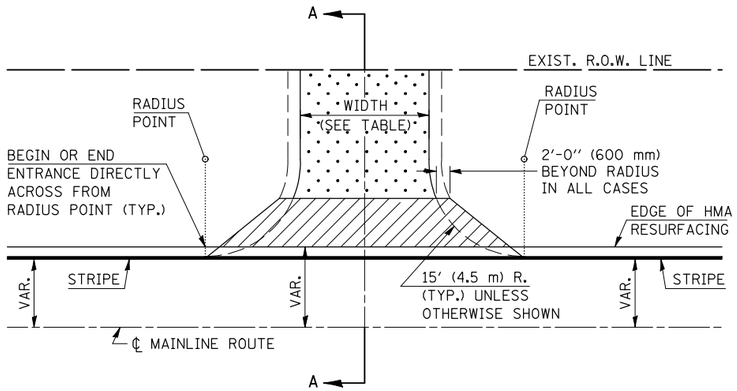
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	74
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DESIGNER NOTE: SEE PLAN PREPARATION MEMORANDUM 40-09

PROJECTS WITH RECONSTRUCTION

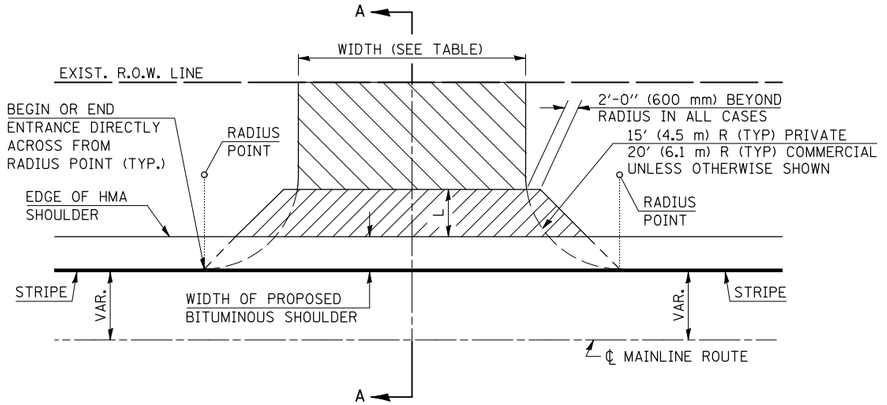
(3R IMPROVEMENTS)

AGGREGATE ENTRANCE

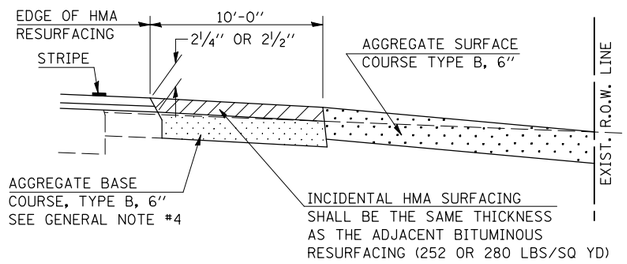


TYPICAL APPLICATION

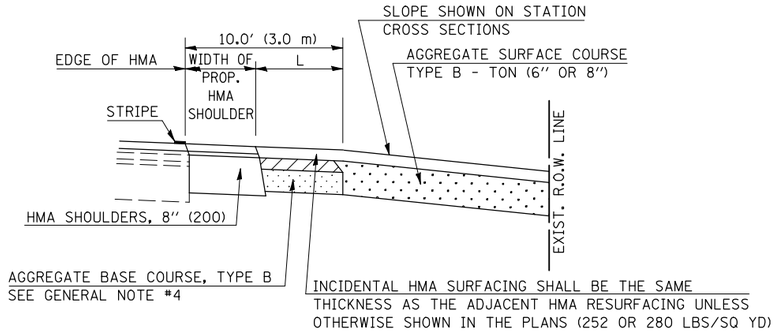
HMA OR PCC ENTRANCE



TYPICAL APPLICATION



SECTION A-A



SECTION A-A
"HMA EXAMPLE"

RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09)

	NEW CONSTRUCTION & 3R with RECONSTRUCTION								3R w/out RECONSTRUCTION, 3P, SMART & CM					
	NONCOMMERCIAL					COMMERCIAL			NONCOMMERCIAL			COMMERCIAL		
	PRIVATE & FIELD			FIELD W/ FARM IMPLEMENTS					PRIVATE & FIELD					
DESIGN ELEMENT	min.	des.	max.	min.	max.	min.	des.	max.	min.	des.	max.	min.	des.	max.
SURFACE WIDTH (FT)	12	16	24	24	30	1 LANE, 1 WAY 14 2 LANE, 2 WAY 24	1 LANE, 1 WAY 16 2 LANE, 2 WAY 30	1 LANE, 1 WAY 24 2 LANE, 2 WAY 35				1 LANE, 1 WAY 2 LANE, 2 WAY		
RADIUS (FT)	15	25	40	30		20	30	50	resurface existing configuration; existing hma or pcc entrances shall have "butt joints" constructed; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them					
SHOULDER WIDTH (FT)	2	2		2		1	3							
SHOULDER SLOPE (%)	2	4	6	4		2	4	6						
ENTRANCE GRADE (%)	0	2 to 5	10 or 12	2 to 5	10 or 12	0	2 to 5	8 or 10						
SIDE SLOPE (FT)	1:10	1:6	1:4	1:6	1:4	1:10	1:6	1:4						
SURFACE TYPE														
INCIDENTAL HMA SURFACING (INCH)		2		2		3 or 4			taper from hma resurfacing thickness (2 1/2", 2 1/4" or 1 1/2") to 1 1/2" for "butt joints" and to minimize aggregate shoulder					
AGGREGATE SURFACE COURSE, TYPE B (INCH)		6		6		8			if applicable use items: Preparation of Base & Aggregate Base Repair; see PPM 30-02					
PCC DRIVEWAY PAVEMENT (INCH)		6						6 or 8						

GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
4. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
6. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".
7. TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 AND 40-11 ALONG WITH DISTRICT CONSTRUCTION MEMORANDUM 03/14 DISCUSS THIS PROCEDURE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 40800050C

FILE NAME = c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-details.dgn	USER NAME = shererjm	DESIGNED -	REVISED - 12/08/06 TJB
		DRAWN -	REVISED - 09/21/07 KAG
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED - 05/02/08 KJT
	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

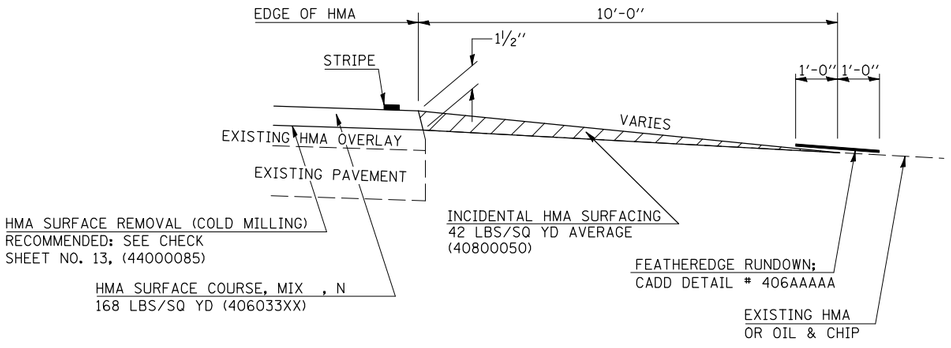
PRIVATE AND COMMERCIAL ENTRANCES
(NONCOMMERCIAL AND COMMERCIAL RURAL)

SCALE: NA | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

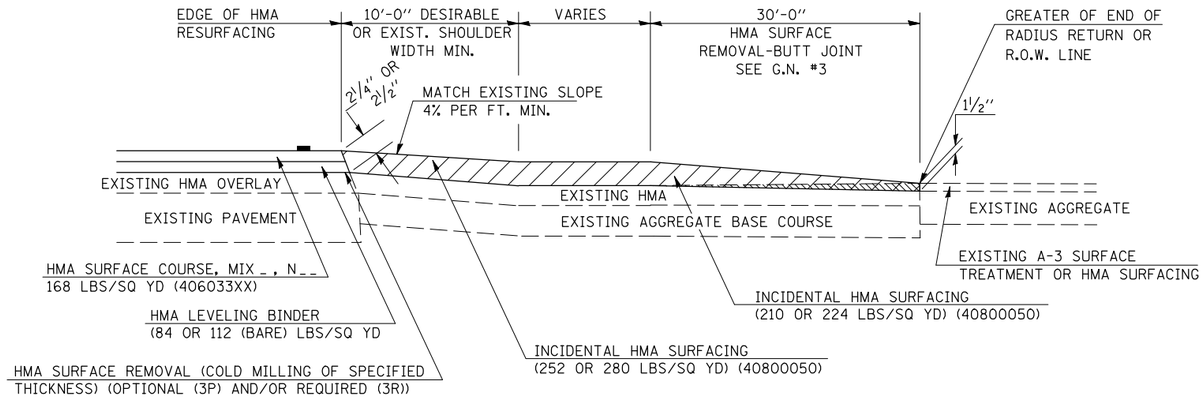
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	75
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROJECTS WITHOUT RECONSTRUCTION

S.M.A.R.T. IMPROVEMENTS
(ALSO CONTRACT MAINTENANCE)

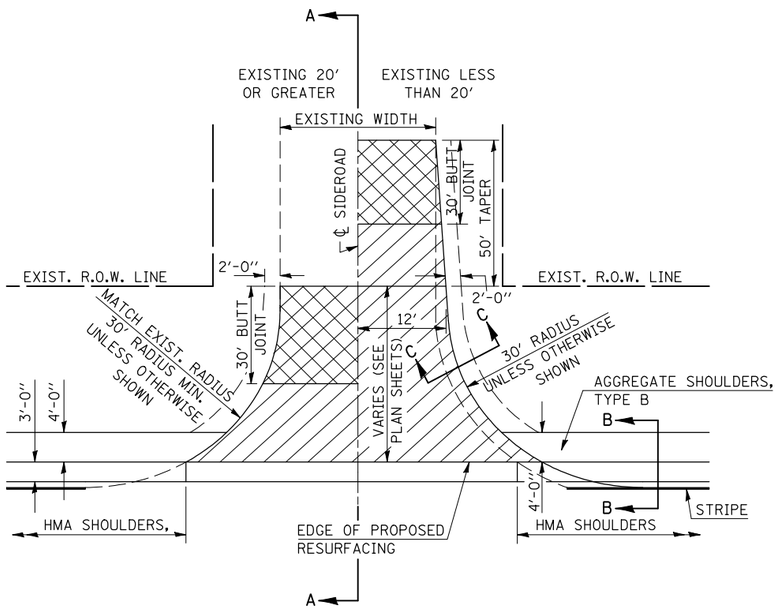


"3P" OR "3R" IMPROVEMENTS

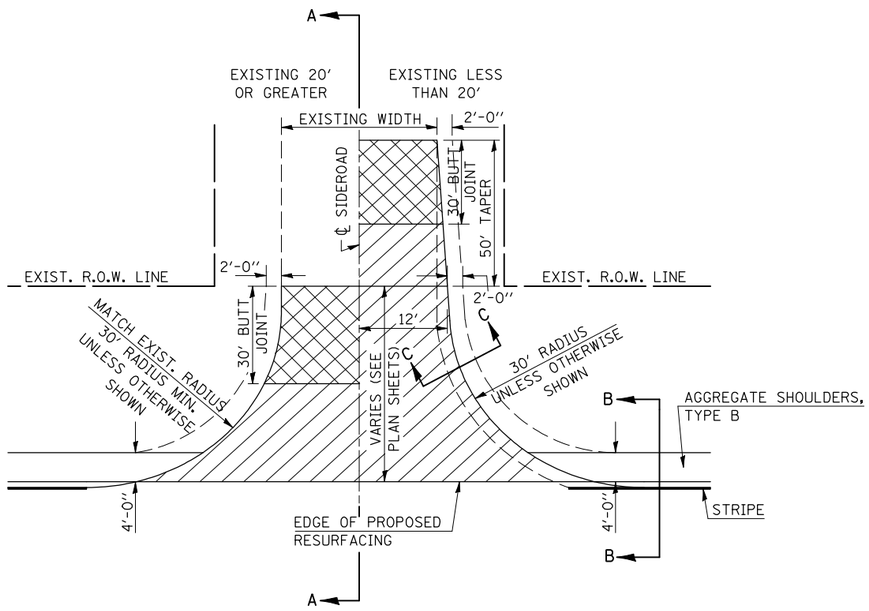


PROJECTS WITH RECONSTRUCTION
("3R" IMPROVEMENTS)

WITH HMA SHOULDER



WITHOUT HMA SHOULDER



GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS
2. PROPOSED SIDEROAD GRADES SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. MAJOR SIDEROAD/SIDESTREETS (>400 ADT) SHALL HAVE "BUTT JOINTS" CONSTRUCTED WHETHER THE EXISTING ENTRANCE IS HMA OR PCC. MINOR SIDEROAD/SIDESTREETS (<400 ADT) SHALL HAVE "FEATHEREDGE RUNDOWNS".
4. AGGREGATE BASE COURSE, TYPE B OF THE THICKNESS SPECIFIED IN THE PLANS 6" MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT 6" EXISTING BASE MATERIAL FOR THE PROPOSED SIDEROAD RETURNS. THIS MATERIAL SHALL BE USED TO WIDEN SIDEROAD RETURNS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 1' WIDER THAN THE SURFACE DIMENSIONS.
6. AGGREGATE SHOULDERS, TYPE B WILL BE WRAPPED AROUND THE SIDEROAD RETURNS. TAPER WIDTH FROM 4' ALONG MAINLINE TO 2' AT BACK OF RETURN.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DESIGNER NOTE: SEE PLAN PREPARATION MEMORANDUM 40-06
CONSULT CHAPTER 49 OF BDE MANUAL

FILE NAME = c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-details.dgn	USER NAME = shererjm	DESIGNED -	REVISED - 12/13/06 TJB
		DRAWN -	REVISED - 09/21/07 KAG
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEROADS & SIDESTREETS (RURAL)

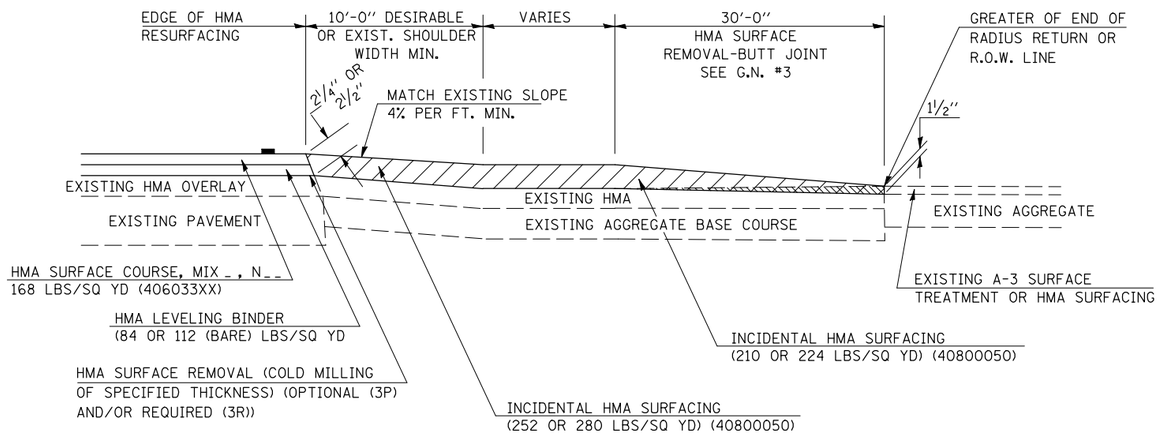
SCALE: NA | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

DISTRICT 5 DETAIL NO. 408000AA

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	76
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

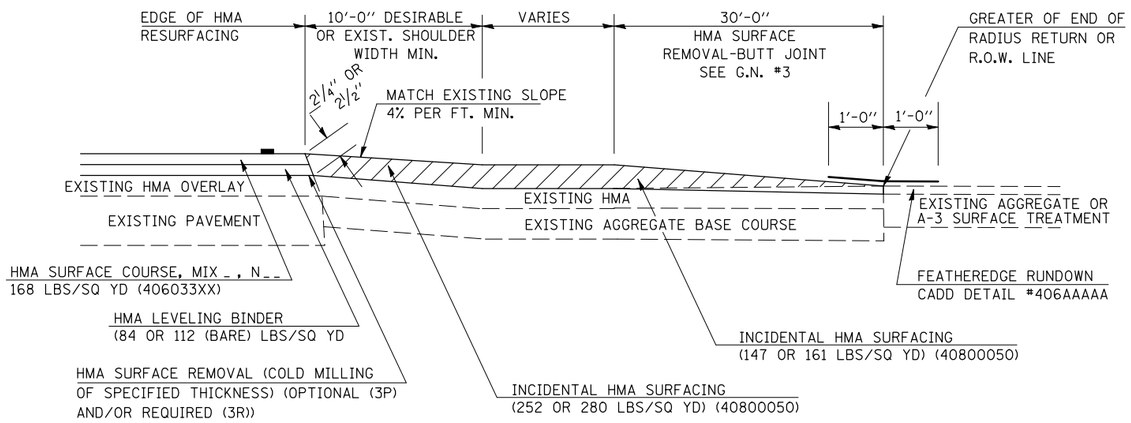
DESIGNER NOTE: SEE PLAN PREPARATION MEMORANDUM 40-06
CONSULT CHAPTER 49 OF BDE MANUAL

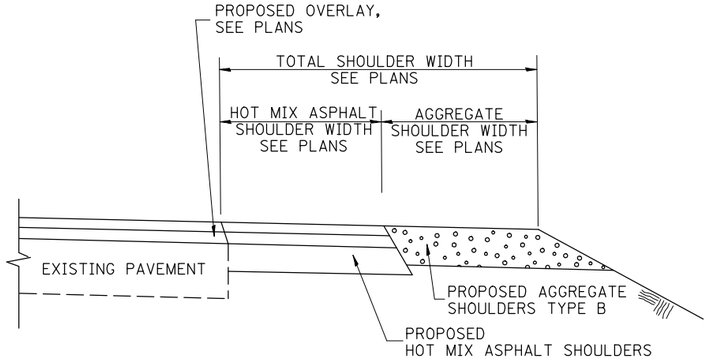
SECTION A-A
EXISTING HMA OR PCC SIDEROAD (>400 ADT)



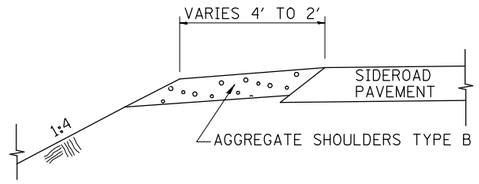
RURAL SIDEROAD DESIGN STANDARDS (PPM 40-06)									
	New Construction & 3R (Existing Width Less Than 20 ft)			3R (Existing Width 20 ft or Greater) & 3P			SMART & Contract Maintenance		
DESIGN ELEMENT	min.	des.	max.	min.	des.	max.	min.	des.	max.
SURFACE WIDTH (FT); (measured at end of radius or row line; greatest distance from edge of traveled way)	24	24	Coordinate with Geometrics Engineer	resurface existing configuration to completion of radius return or row line; greatest distance from edge of traveled way; major sideroads (> 400 adt) shall have "butt joints" constructed whether the entrance is hma or pcc; minor sideroads (< 400 adt) shall have "featheredge rundown" as shown in district cadd detail 406AAAAA			resurface existing configuration with the completion of a 10 ft. featheredge rundown for ALL sideroads as shown in district cadd detail 406AAAAA		
RADIUS (FT)	30	30							
SHOULDER WIDTH (FT)	4	8	10						
SHOULDER SLOPE (%)	2	4	12						
ENTRANCE GRADE (%)	1	1 to 4	4						
BREAKOVER (%)	0	5	10						
SIDE SLOPE	1:10	1:6	1:4						
INTERSECTION ANGLE	60	75 to 90							
SURFACE TYPE									
INCIDENTAL HMA SURFACING (INCH)	4			taper from 2 1/4" to 1 1/2" or featheredge			taper from 1 1/2" to featheredge		
AGGREGATE BASE COURSE, TYPE A (INCH)	8	4		if applicable use item: 35800100 Preparation of Base					
PCC PAVEMENT (INCH)		8							

SECTION A-A
EXISTING AGGREGATE OR SEAL COAT SIDEROAD (<400 ADT)





SECTION B-B
MAINLINE SHOULDER TREATMENT



SECTION C-C
SIDEROAD SHOULDER TREATMENT

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 408000AA

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED - 12/13/06 TJB
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	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2009	DATE -	REVISED -

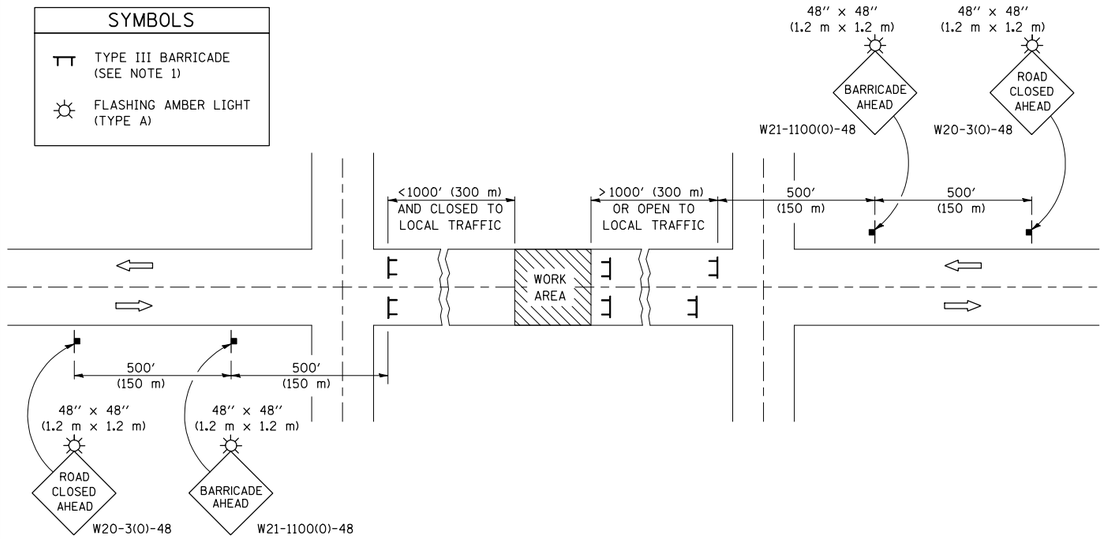
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEROADS & SIDESTREETS (RURAL)

SCALE: NA | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	77
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

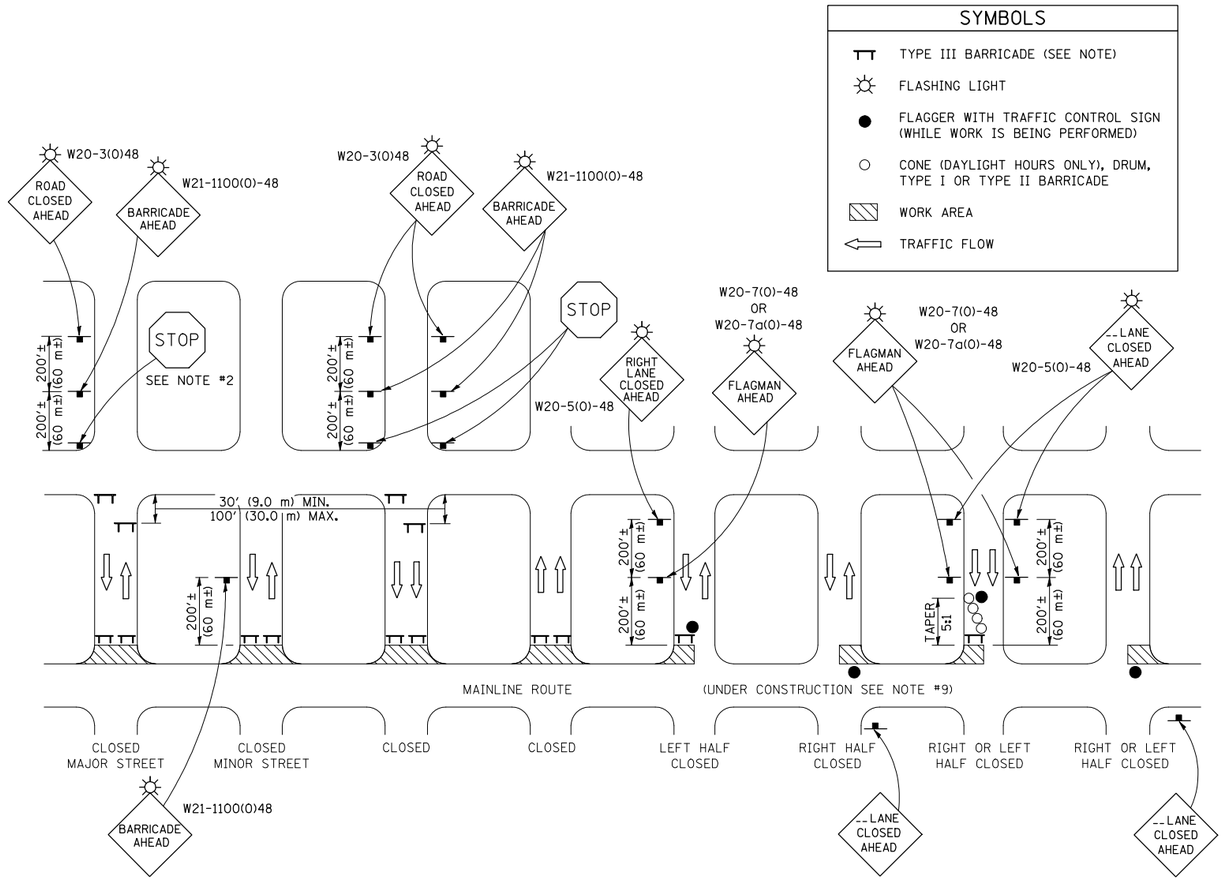
ROAD CLOSURE



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
3. WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
4. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
5. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
6. REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TY III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
7. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
8. A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
10. FORMS BT. 725 AND BT. 726 ARE REQUIRED.
11. WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
12. AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SIDEROAD / STREET CLOSURE



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
3. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
4. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
5. ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
7. FORMS BT 725 AND BT 726 ARE REQUIRED.
8. THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
9. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS INVOLVING THE RECONSTRUCTION OF ALL APPLICABLE SIDE STREETS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 70200000

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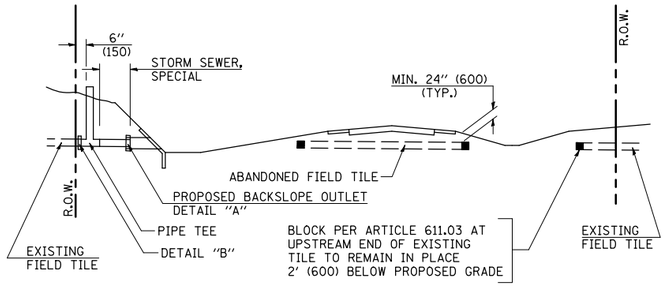
		DRAWN -	REVISED - 12/07
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD/STREET CLOSURES)

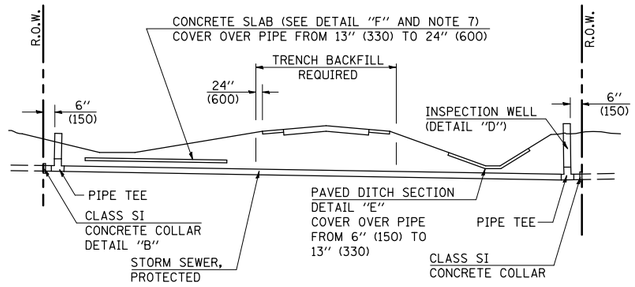
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	78
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



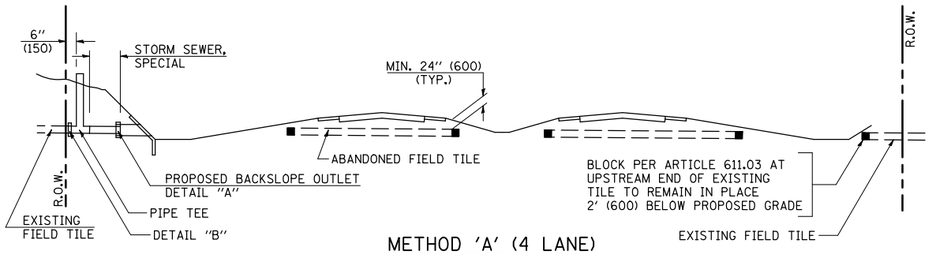
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



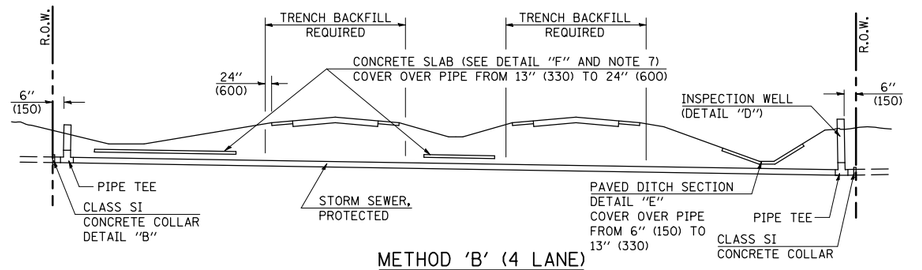
METHOD 'B' (2 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



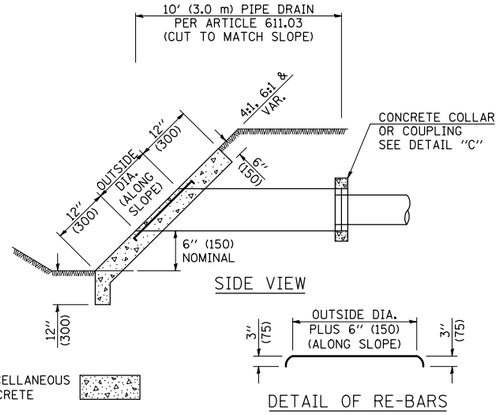
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

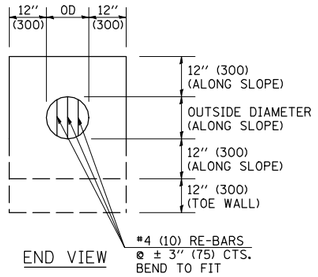


METHOD 'B' (4 LANE)

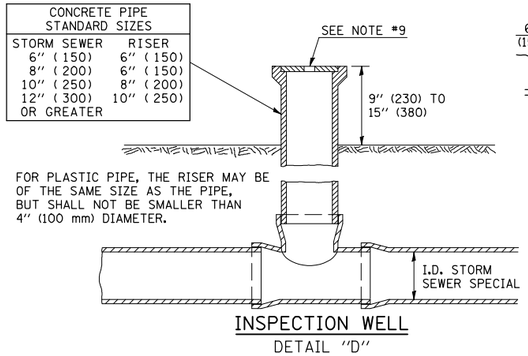
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



DETAIL OF RE-BARS

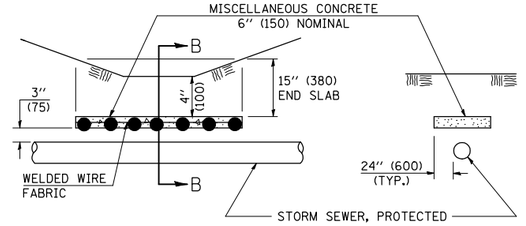


CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	



INSPECTION WELL

DETAIL "D"

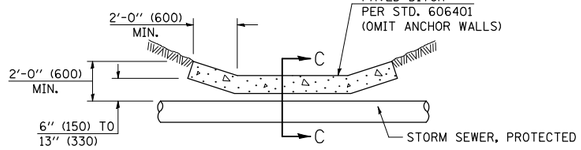


SLAB ELEVATION

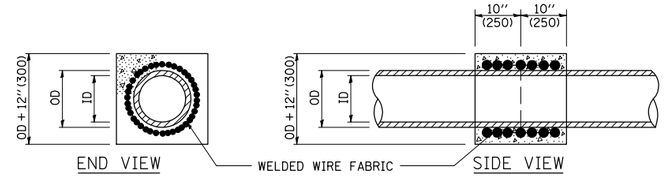
SECTION B-B

CONCRETE SLAB

DETAIL "F"

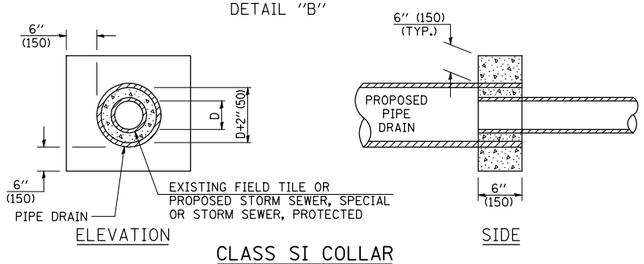


PAVED DITCH ELEVATION



HEADWALL FOR BACKSLOPE OUTLET

DETAIL "A"

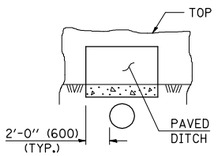


CONCRETE COLLAR

DETAIL "B"

CLASS SI COLLAR

DETAIL "C"



SECTION C-C

PAVED DITCH

DETAIL "E"

GENERAL NOTES

1. EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
2. ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
3. INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
4. EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
5. NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
6. THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
7. ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
8. HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
9. THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 61101011A

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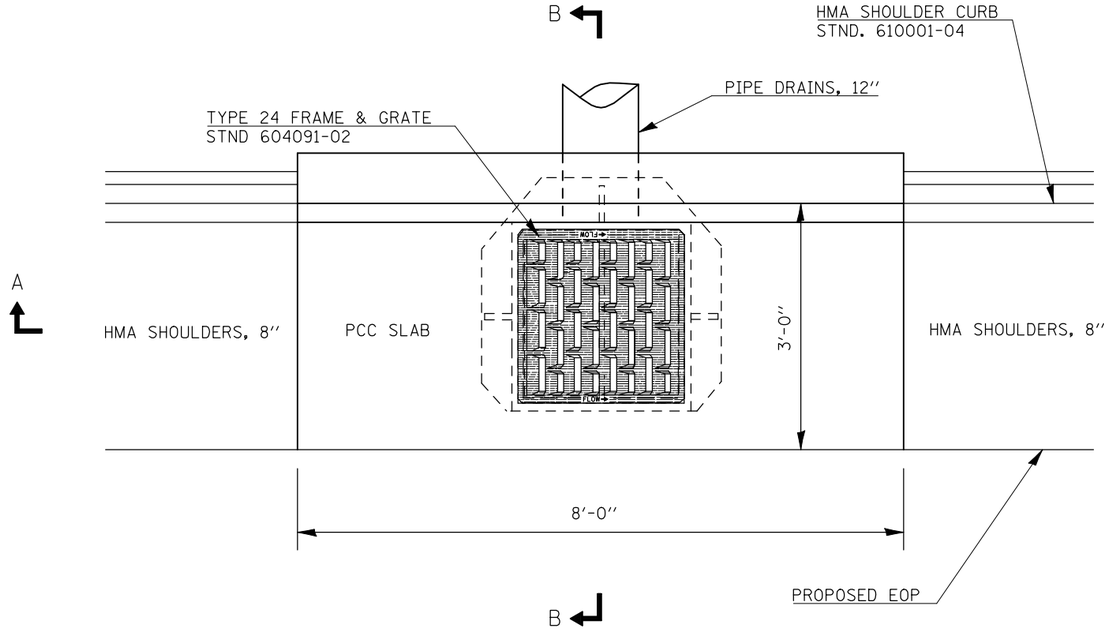
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

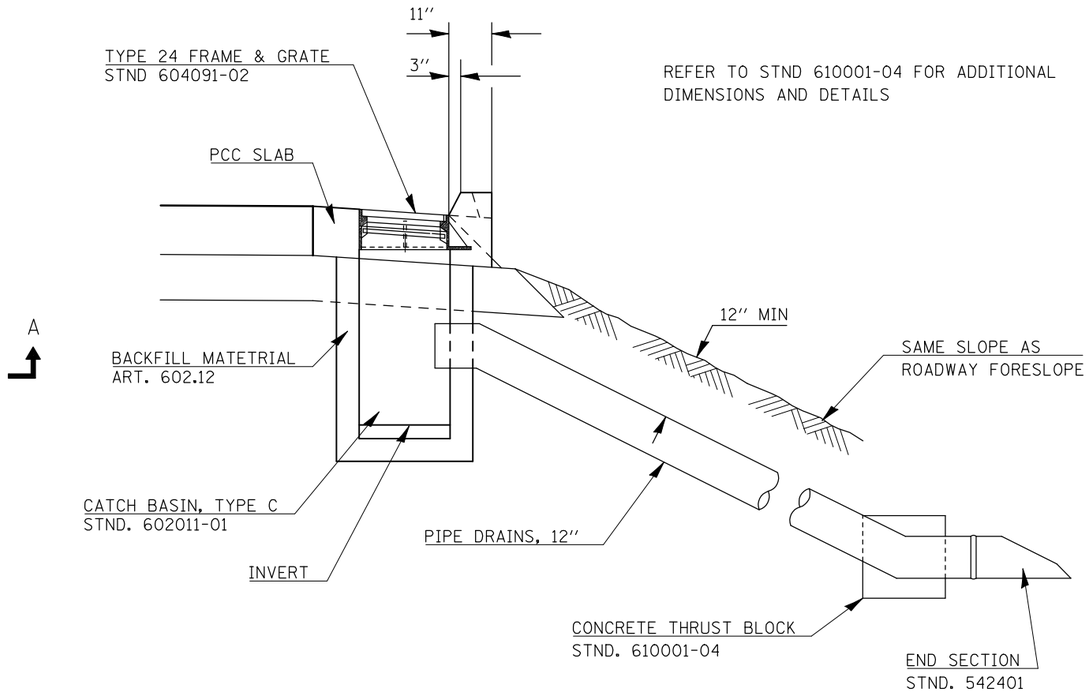
FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

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

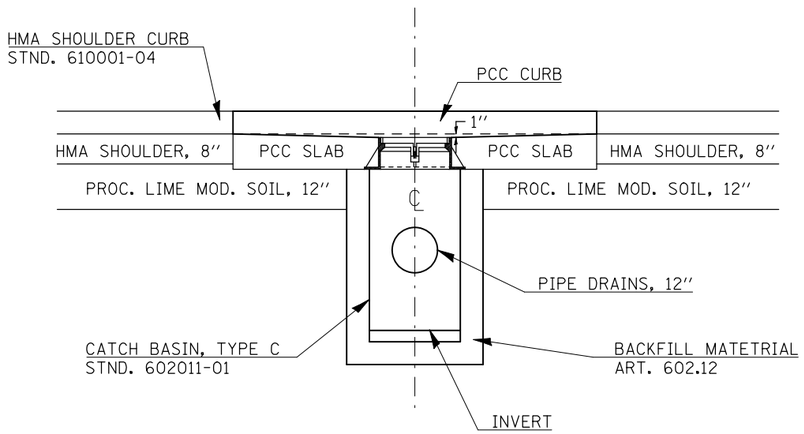
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	79
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



SEC. B-B



SEC. A-A

GENERAL NOTES

SEE STANDARD 610001-04 FOR HMA SHOULDER CURB DETAILS.

THE GUTTER GRADE SHALL BE DEPRESSED AT ALL INLETS.

THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE VARIOUS PAY ITEMS OF THE WORK INVOLVED.

SEE SHEET 68 FOR SCHEDULE OF SHOULDER DRAINS.

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	PLOT DATE = 10/13/2009	DATE - 092509	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL FOR SHOULDER INLETS WITH CURB

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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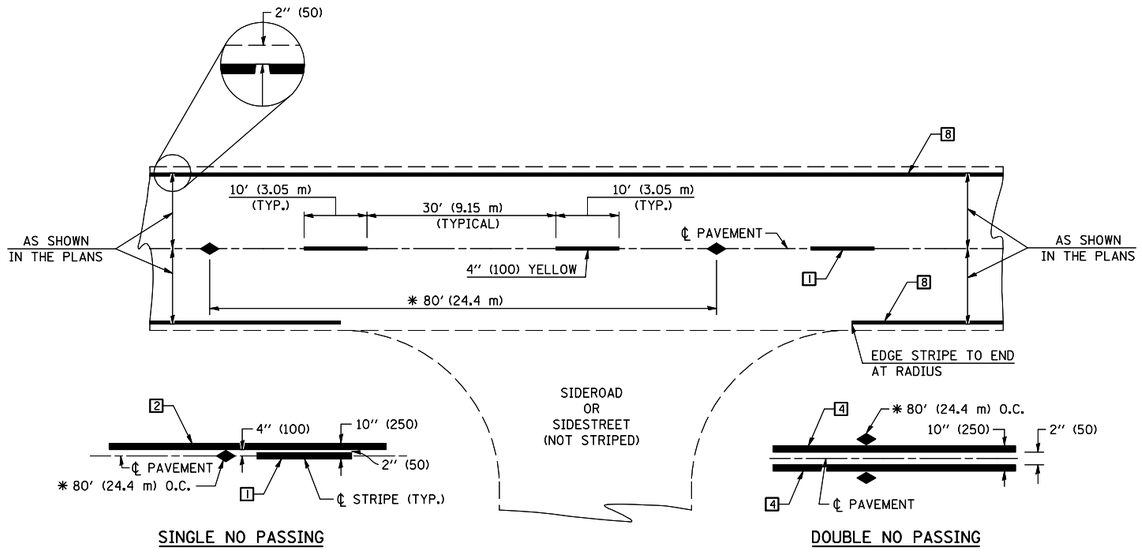
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SINGLE NO PASSING

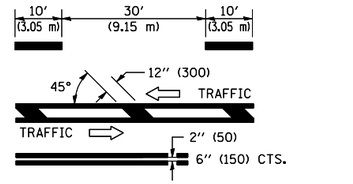
DOUBLE NO PASSING

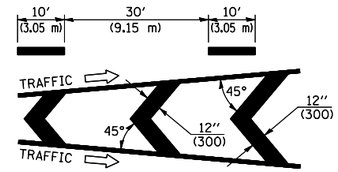
✱ REDUCE TO 40′ (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

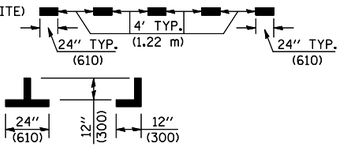
TWO LANE/TWO WAY

TYPICAL PAVEMENT MARKING LEGEND

1. 4″ (100) SKIP-DASH (YELLOW)
2. 4″ (100) SOLID (YELLOW)
3. 12″ (300) DIAGONAL (YELLOW)
4. 4″ (100) DOUBLE YELLOW (NARROW)
5. RESERVED
6. RESERVED
7. 4″ (100) SKIP-DASH (WHITE)
8. 4″ (100) SOLID (WHITE)
9. 12″ (300) DIAGONAL (WHITE)
10. 6″ (150) SOLID (WHITE)
11. 24″ (600) STOP BAR (WHITE)
12. 8″ (200) SOLID (WHITE)
13. 4″ (100) LANE LINE EXTENSIONS (WHITE)
14. 4″ (100) PARKING WHITE



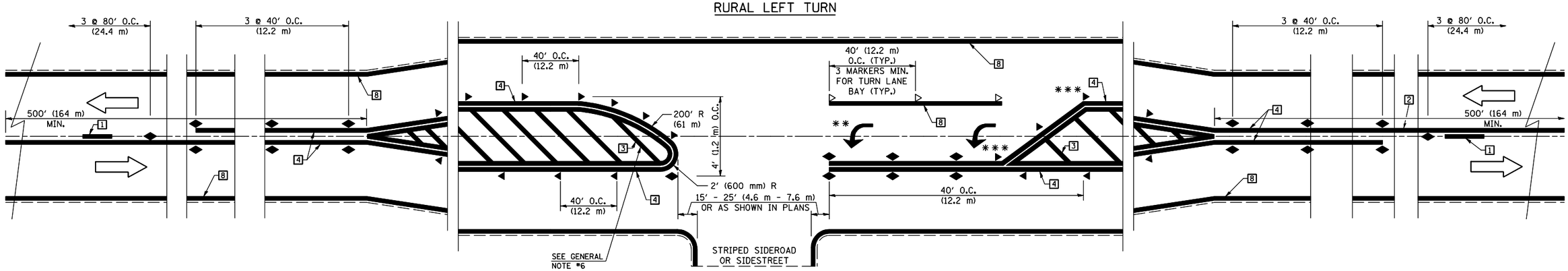




TYPICAL PAVEMENT MARKERS LEGEND

- TWO-WAY AMBER MARKER
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



✱✱✱ REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

✱✱ TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET ✱2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

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	PLOT DATE = 10/13/2009	DATE -	REVISED -

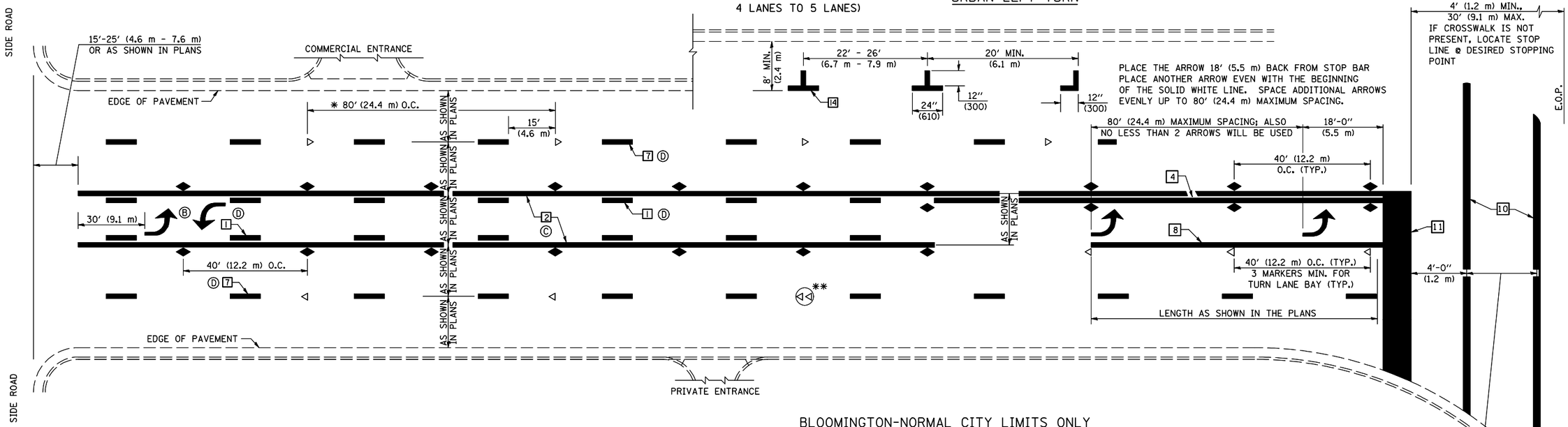
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

SCALE: | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	81
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

URBAN LEFT TURN



* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

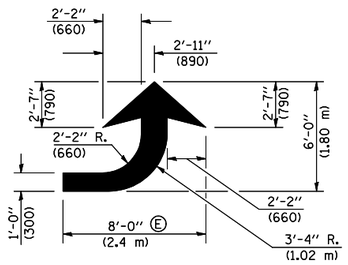
GENERAL NOTES:

Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.

Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.

Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.

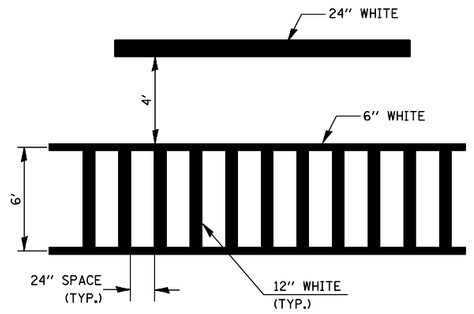
Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



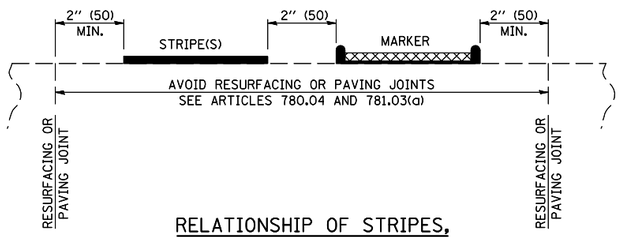
LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m 2)
(WHITE)

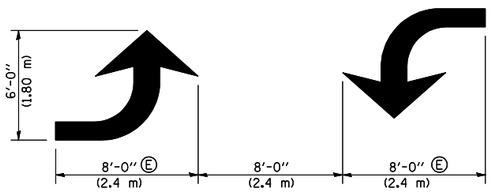
BLOOMINGTON-NORMAL CITY LIMITS ONLY



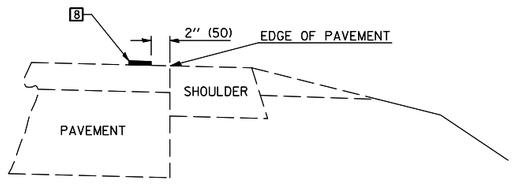
TYPICAL SPACING FOR
CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES,
MARKERS AND JOINTS



TYPICAL DOUBLE
TURN ARROWS (WHITE)



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT

(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

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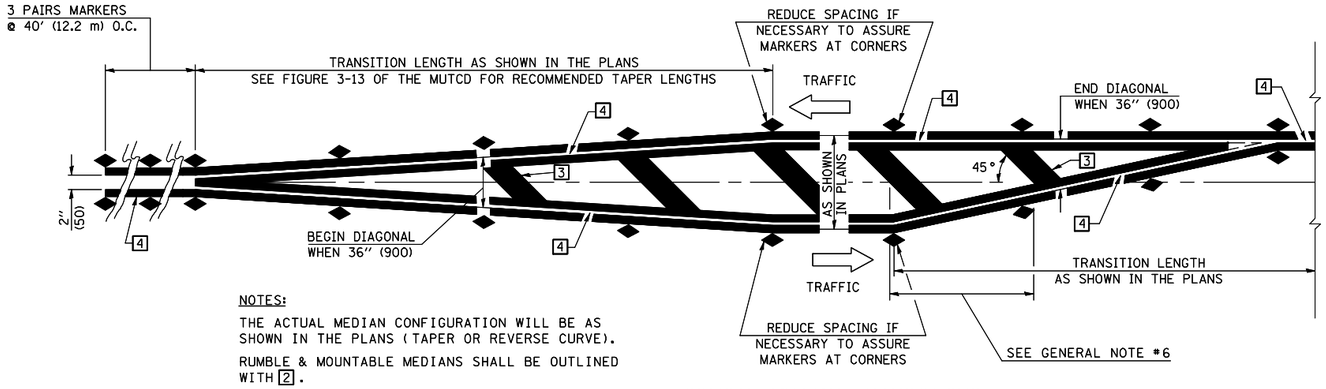
	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	82
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

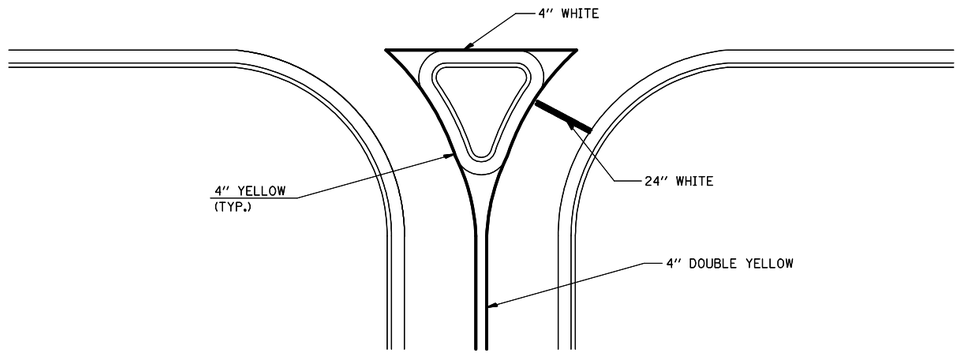
THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).

RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

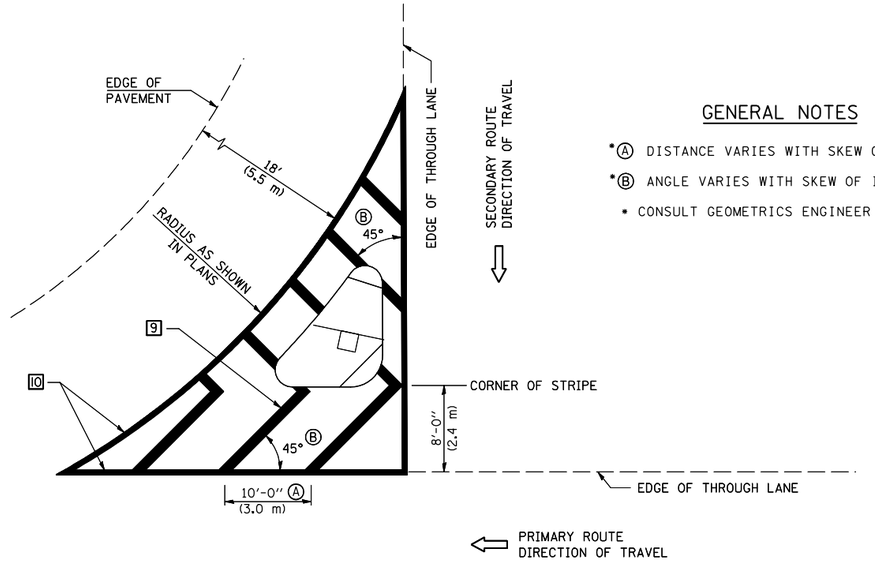
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
   <30 MPH USE 15' (<50 km/h USE 4.5 m)
   30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
   >45 MPH USE 30' (>75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

*Ⓐ DISTANCE VARIES WITH SKEW OF INTERSECTION.

*Ⓑ ANGLE VARIES WITH SKEW OF INTERSECTION.

• CONSULT GEOMETRICS ENGINEER

ISLAND

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

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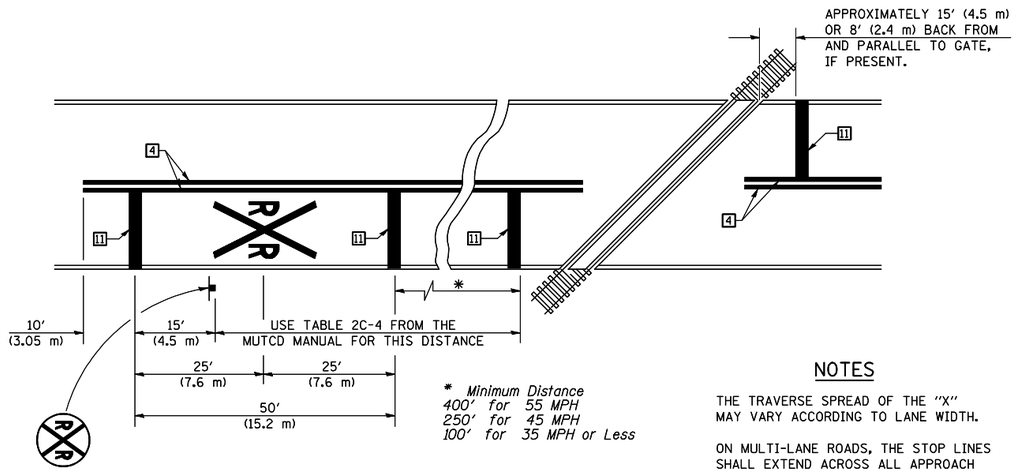
	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

SCALE: | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.S. 1517	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12VBR-1	PIATT	168	83
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

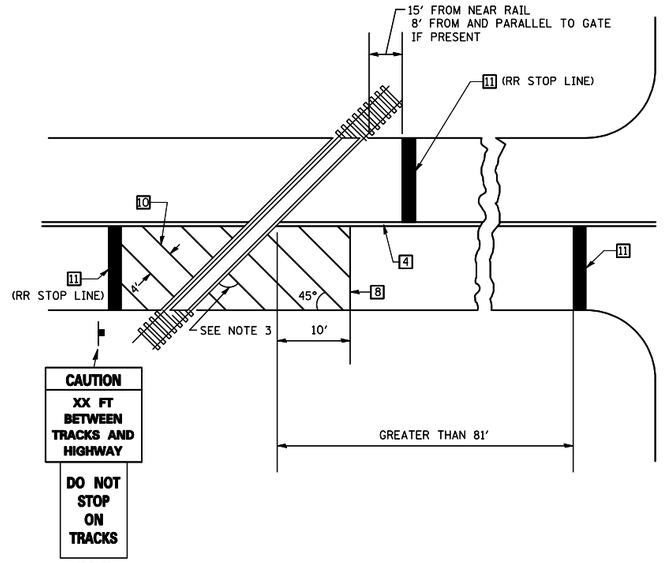
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

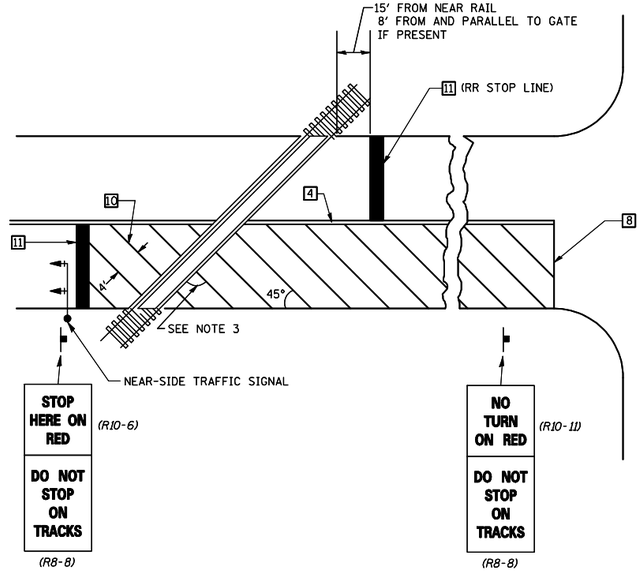
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

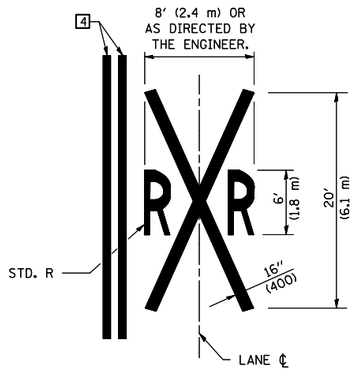
RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

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	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	84

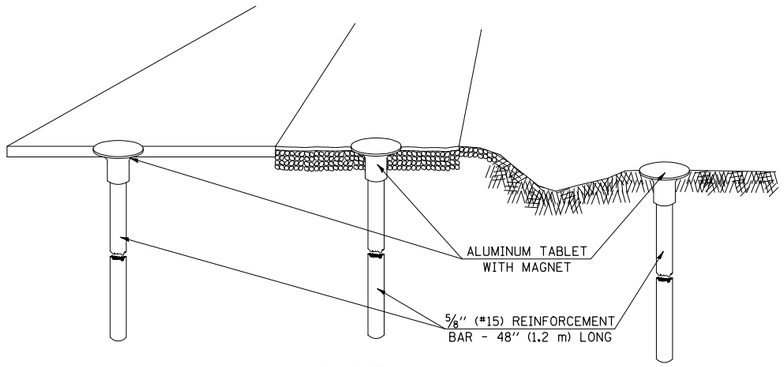
CONTRACT NO. 70388

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

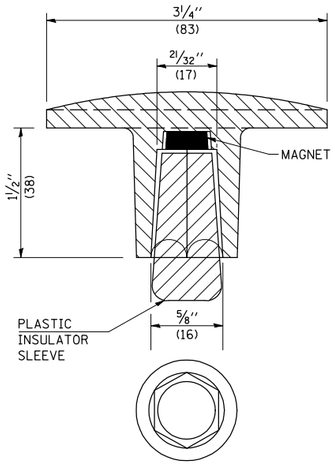
DESIGNER NOTE: BDE 58-8.02 "PLACE MARKERS AT THE PT'S AND PC'S OF ALL HORIZONTAL CURVES AND SPACE THEM ALONG TANGENTS SO THAT TWO MARKERS ARE ALWAYS INTERVISIBLE."

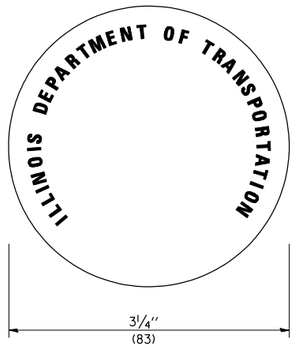
XZ193300 – SURVEY MARKER, TYPE 1 (SPECIAL)

TO BE INSTALLED IN FLEXIBLE PAVEMENT OR SHOULDER, BITUMINOUS TREATED SURFACE AND TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



IN FLEXIBLE PAVEMENT OR SHOULDER | IN BITUMINOUS TREATED SURFACE | IN TURF AREAS WITHIN R.O.W.





THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. THE CONTRACT UNIT PRICE, EACH, FOR SURVEY MARKER, TYPE I, (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE SURVEY MARKER.
2. ALL SURVEY MARKERS, TYPE I, (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.
3. WHEN THE TABLET AND REBAR ARE PLACED AS PART OF A SURVEY MARKER VAULT, THEY SHALL BE CONSIDERED AS INCLUDED IN THAT PAY ITEM AND THERE WILL BE NO PAYMENT FOR THE SURVEY MARKER, TYPE I, (SPECIAL).

SPECIFICATIONS FOR ALUMINUM TABLET

SURVEY CAP FOR REBAR. 3 1/4" (83 mm) CONVEX SURVEY CAP FOR 5/8" (15 mm) REBAR WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM CAP FOR REBAR SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM CAP FOR REBAR SHALL BE TAPERED FOR A PERFECT COMPRESSION FIT. A SPECIAL PLASTIC INSULATOR SHALL BE INSTALLED TO PREVENT DISSIMILAR METAL CONTACT AND CORROSION. THE PLASTIC INSULATOR SHALL FORM READILY TO THE OUTER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE ALUMINUM CAP SOCKET. THE PLASTIC INSULATOR SHALL BE LOW DENSITY POLYETHYLENE, A MINIMUM 1 1/2" (38 mm) LONG AND CONFORM TO FEDERAL SPECIFICATION L-P 390.

COMPOSITION: ALUMINUM 98.3-98.7%; OTHER 1.3-1.7%; STRENGTH: YIELD 28 KSI (193 MPa), ULTIMATE 32 KSI (221 MPa). ELONGATION 15% [IN 2" (50 mm)]. SPECIFICATIONS: ALUMINUM ALLOY 6101-0; ASTM B317-83 (EXCEPT TEMPER) AS FORGED. NO EXCEPTIONS.

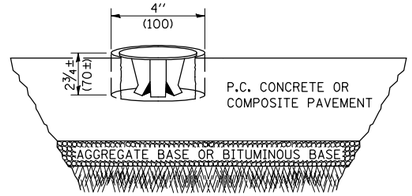
SPECIFICATIONS FOR REBAR

REBAR FOR ALUMINUM TABLET. REINFORCEMENT BAR SHALL BE 5/8" (#15) X 48" (1.2 m) (DEFORMED).

INSPECTION OF REINFORCEMENT BAR 5/8" (#15) SHALL BE DONE BY DISTRICT PERSONNEL OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS.

XZ193400 – SURVEY MARKER, TYPE 2 (SPECIAL)

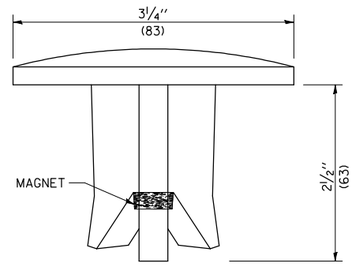
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



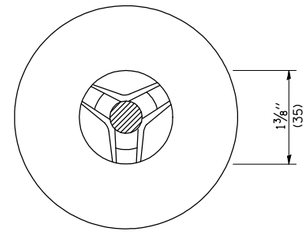
SPECIFICATIONS FOR ALUMINUM TABLET (FORKED)

ALUMINUM TABLET (FORKED) FOR USE WITH "SURVEY MARKER, TYPE 2, (SPECIAL)" SHALL BE AS SHOWN ON THE DETAIL FOR THE 3 1/4" (83 mm) CONVEX SURVEY TABLET WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE FOR LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM TABLET SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM TABLET SHALL BE DESIGNED NOT TO TURN OR ROTATE. THREE PRONGS ON A 2 1/2" (63 mm) STEM SHALL BE SUCH THAT THE ALUMINUM TABLET CANNOT BE EASILY REMOVED.

COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD 19,000-21,000 PSI (131-145 MPa); TENSILE 38,000-44,000 PSI (262-303 MPa); ELONGATION 10-15% [IN 2" (50 mm)]. SPECIFICATIONS: ALLOY 535.0; QQ-A-601ES. NO EXCEPTIONS.



SIDE VIEW



BOTTOM VIEW

THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 4" (100 mm) CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 4" (100 mm) DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
4. THE 4" (100 mm) CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND ALL LABOR AND MATERIAL TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. XZ193AAA

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED - 11/06
c:\pw_work\PWIDOT\SHERERJM\dms86674\D570388-sht-details.dgn	DRAWN -		REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MARKERS TYPE 1 & 2 (SPECIAL)

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

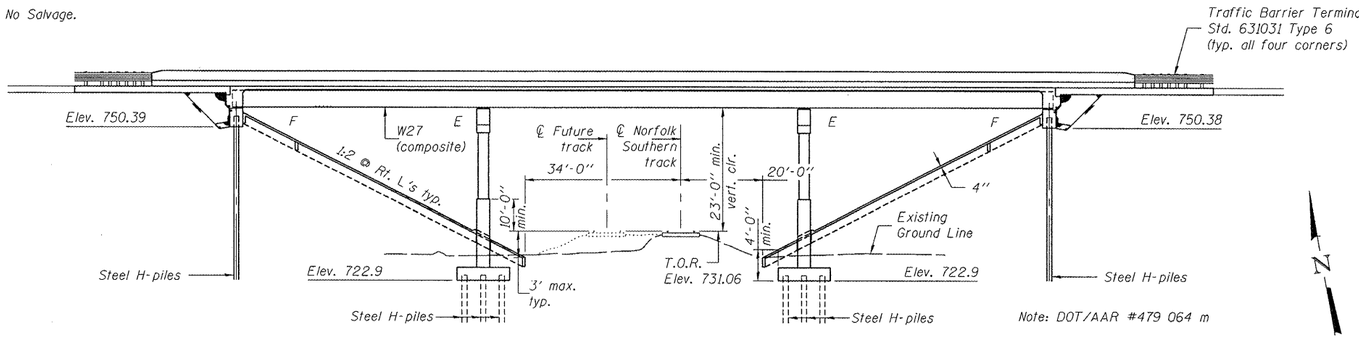
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. 1517	12VBR-1	PIATT	168	85
		CONTRACT NO. 70388		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Bench Mark: Chiseled square on top of the southwest wingwall, 17.65' Rt. at Station 288+13. Elevation = 755.435

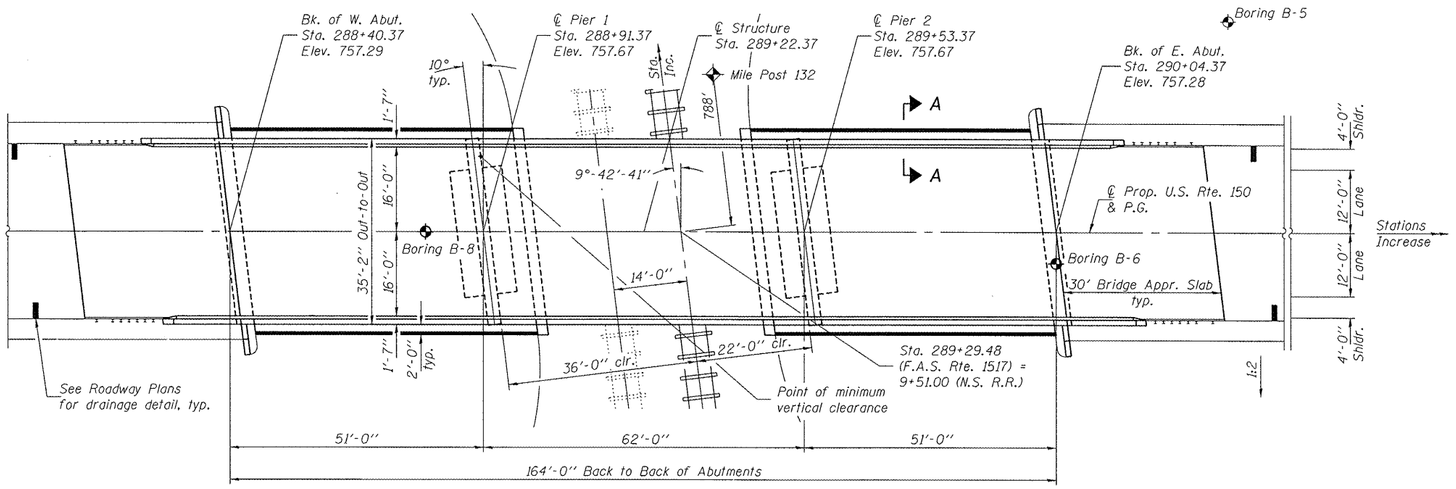
Existing Structure: S.N. 074-0009 built in 1928 as S.B.I. Route 39, Section 12V at Sta. 289+23.00. Superstructure replaced in 1975 as S.B.I. Route 39, Section 12VBR. Structure consists of five span PPC deck beams on spill-thru counter-fort abutments and muti-column piers. 218'-7 7/8" back-to-back abutments. 33'-0" out-to-out deck. SN 074-0086 to be built on new alignment approximately 49' south of existing bridge. Road closed and traffic detoured during contruction.

No Salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION

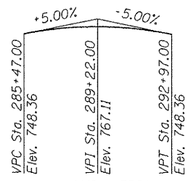


PLAN

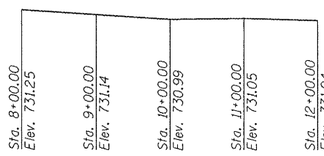
INDEX OF SHEETS

STATION 289+22.37
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE. 1517 SEC. 12VBR-1
LOADING HL-93
STRUCTURE NO. 074-0086

NAME PLATE
See Std. 515001

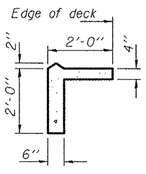


PROFILE GRADE
(along ℄ U.S. Route 150)

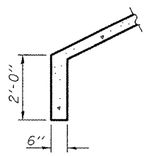


PROFILE GRADE
(Top of Rail - Norfolk Southern R.R.)

Notes: The profile grade shows the final elevations after grinding.
Up to 1/4" will be ground off the bridge slab. approach pavement and connector pavement.



SECTION A-A

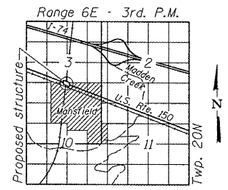


LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2007 LRFD AASHTO 4th Edition

DESIGN STRESSES
FIELD UNITS
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (AASHTO M270 Grade 50W)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (S_{D1}) = 0.10g
Design Spectral Acceleration at 0.2 sec (S_{DS}) = 0.17g
Soil Site Class = C



LOCATION SKETCH

GENERAL PLAN & ELEVATION
U.S. ROUTE 150 OVER
NORFOLK SOUTHERN R.R.
F.A.S. RTE. 1517 - SEC. 12VBR-1
PIATT COUNTY
STATION 289+22.37
STRUCTURE NO. 074-0086

DESIGNED	Bruno P. Nacilewski				
CHECKED	Stephen M. Ryan				
DRAWN	h.t. duong				
CHECKED	ISMR				

November 25, 2009
EXAMINED Nancy Doyle Peterson
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
RALPH E. ANDERSON
081-004625
SPRINGFIELD
LICENSED STRUCTURAL ENGINEER

EXPIRES 11-30-2010

SHEET NO. 1	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	86
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{3}{4}$'' ϕ, holes $\frac{15}{16}$'' ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 108170 lbs. (AASHTO M 270 Gr. 50W).

All structural steel shall be AASHTO M 270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

Slipforming of parapets will not be allowed.

Slopewall shall be reinforced with welded wire fabric, 6''x 6'' - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The Contractor shall drive two test piles, one each at West Abutment and Pier 2 to 110% of the nominal required bearing specified in respective locations before ordering the remainder of piles.

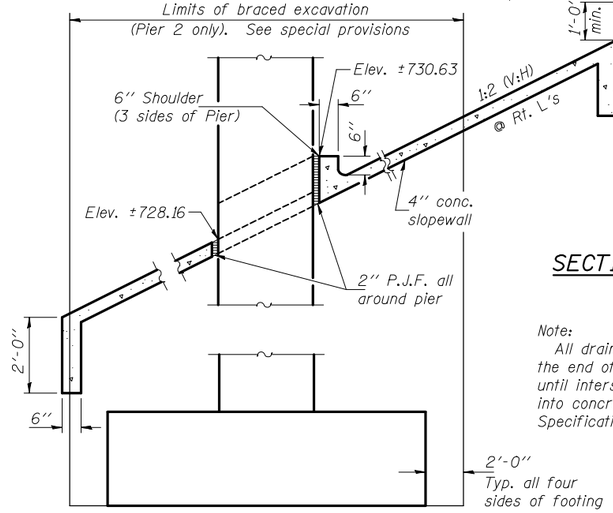
The Contractor shall submit Structural Assessment Report(s) as required for the Contractor's Means and Methods of Construction. See Special Provisions.

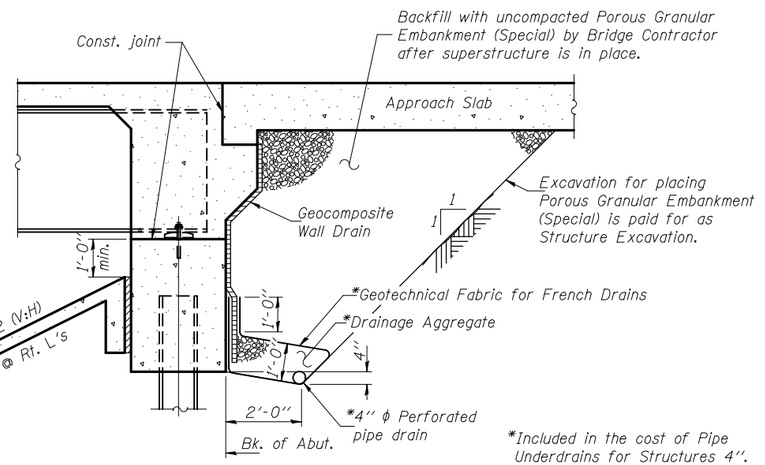
Current Ratings of File for Existing Structure

Inventory: HS 17.3
Operating: HS 28.9
Live Load Restrictions: No

Inventory and Operating Ratings and Live Load Restrictions are provide for information only. Inventory and Operating Ratings are based on HS loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

The Contractor is advised that the existing structure contains members (including piers) that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure. An Existing Structure Information Package is available upon request as noted in the special provisions.





SECTION THRU INTEGRAL ABUTMENT

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

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
	Porous Granular Embankment (Special)	Cu. Yd.	92.4		92.4
	Removal of Existing Structures	Each	1		1
	Structure Excavation	Cu. Yd.		250	250
	Concrete Structures	Cu. Yd.		258.2	258.2
	Concrete Superstructure	Cu. Yd.		319.4	319.4
	Bridge Deck Grooving	Sq. Yd.	697		697
	Concrete Encasement	Cu. Yd.		4.2	4.2
	Protective Coat	Sq. Yd.	967		967
	Furnishing and Erecting Structural Steel	L. Sum	1		1
	Stud Shear Connectors	Each	3654		3654
	Reinforcement Bars, Epoxy Coated	Pound	76250	33600	109850
	Bar Splicers	Each	64		64
	Slopewall 4''	Sq. Yd.		482	482
	Furnishing Steel Piles HP12x53	Foot		2348	2348
	Driving Piles	Foot		2348	2348
	Test Pile Steel HP12x53	Each		2	2
	Name Plates	Each	1		1
	Elastomeric Bearing Assembly, Type I	Each		12	12
	Anchor Bolt 1'' ϕ	Each		24	24
	Anchor Bolt $1\frac{1}{2}$'' ϕ	Each		24	24
	Braced Excavation	Cu. Yd.		112	112
	Geocomposite Wall Drain	Sq. Yd.		56.8	56.8
	Pipe Underdrains for Structures 4''	Foot		137	137
**	Diamond Grinding (Bridge Section)	Sq. Yd.	734		734
	Reinforced Soil Slope System	Sq. Ft.		5660	5660
	Asbestos Bearing Pad Removal	Each		88	88

**Includes bridge approach slab and connector pavement.

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009

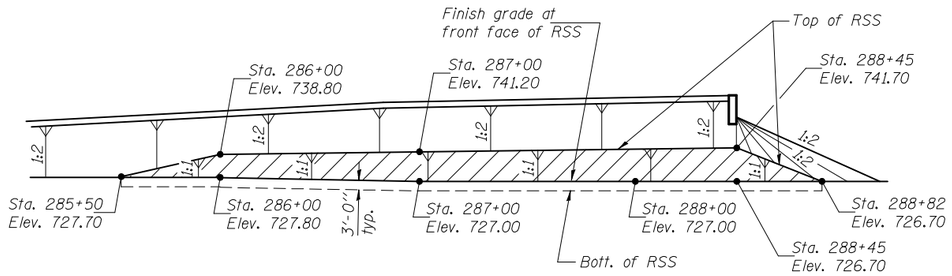
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

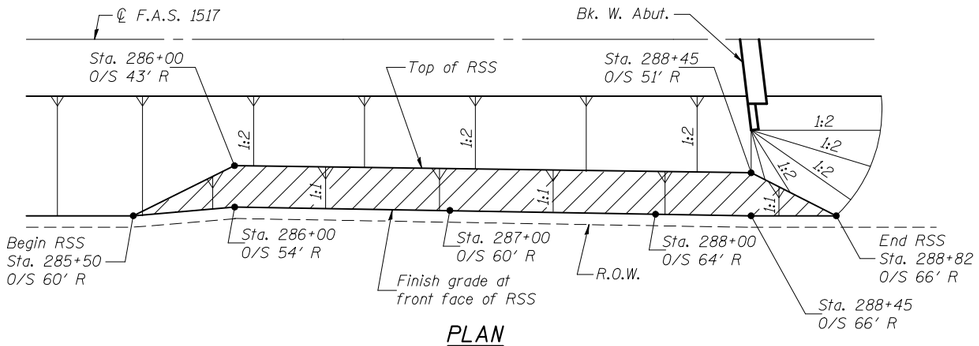
GENERAL DATA
STRUCTURE NO. 074-0086

SHEET NO. 2	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	87
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

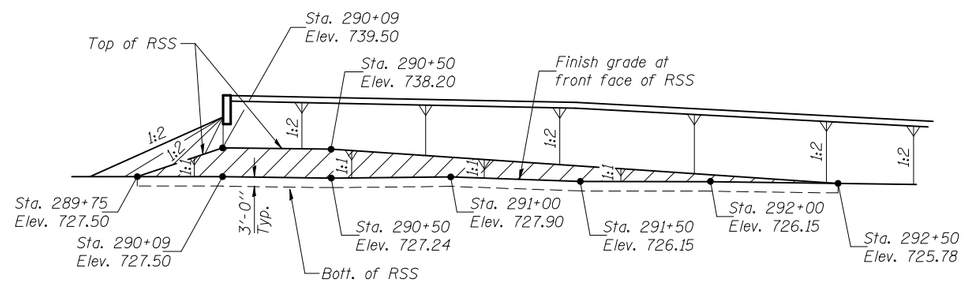


ELEVATION

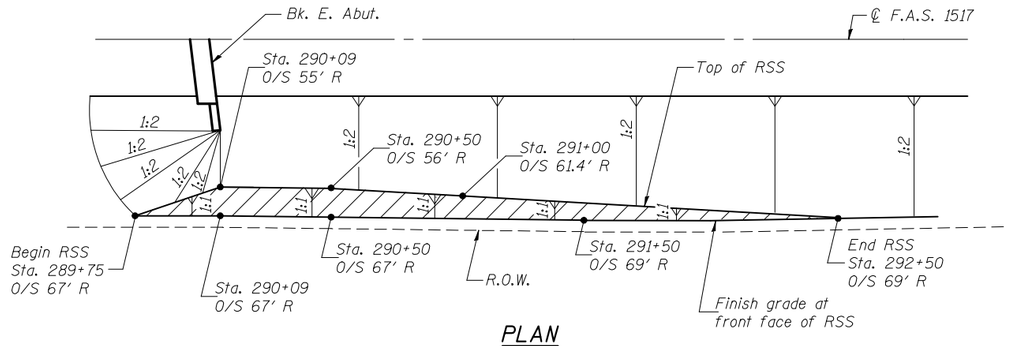


PLAN

WEST END - SOUTH SIDE

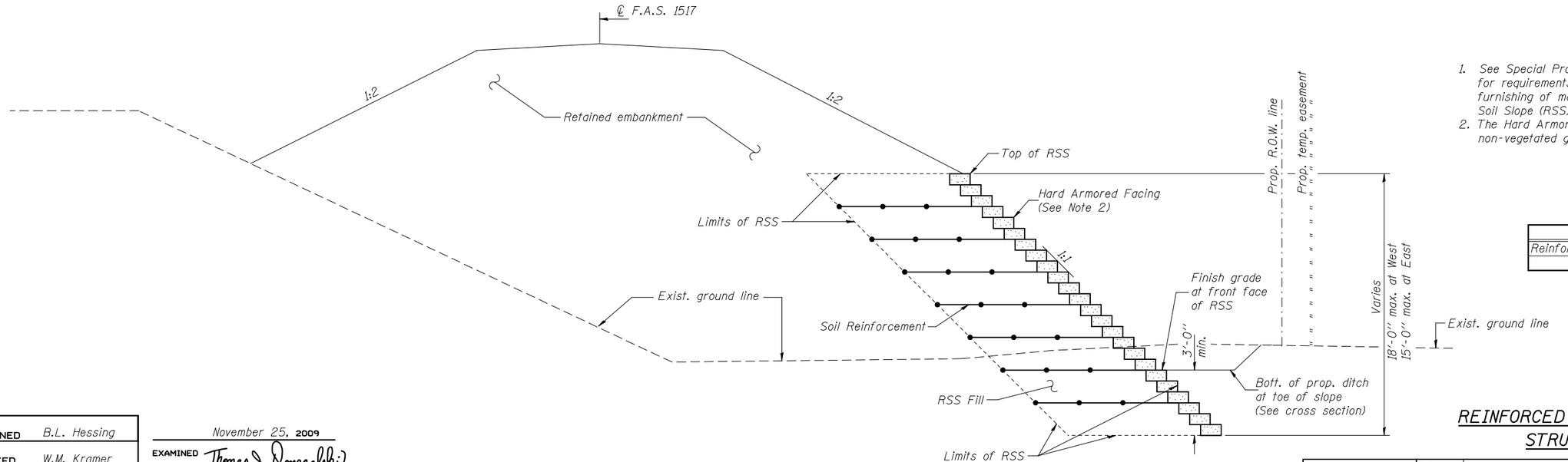


ELEVATION



PLAN

EAST END - SOUTH SIDE



TYPICAL SECTION

(Looking east)

NOTES:

1. See Special Provisions, "Reinforced Soil Slope System" for requirements pertaining to the design preparation, furnishing of materials, and construction of the Reinforced Soil Slope (RSS).
2. The Hard Armored Facing shall be limited to the use of non-vegetated geocell or non-vegetated precast elements.

BILL OF MATERIAL

Item	Unit	Total
Reinforced Soil Slope System	Sq. Ft.	5660

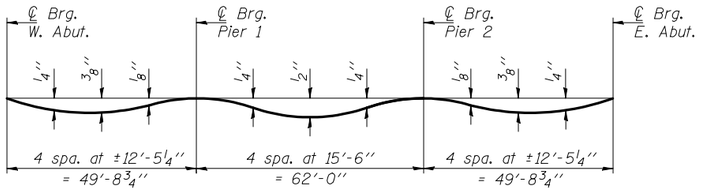
REINFORCED SOIL SLOPE (RSS) DETAILS
STRUCTURE NO. 074-0086

DESIGNED	B.L. Hessing
CHECKED	W.M. Kramer
DRAWN	h.t. duong
CHECKED	BLH/WMK

November 25, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 3	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	88
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



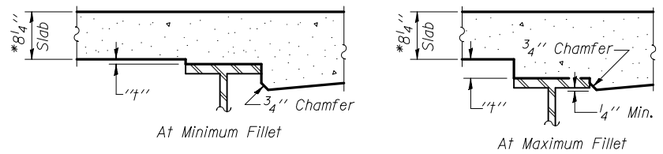
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown below & on sheet 5 of 25.

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	28837.76	-14.79	757.02	757.04
℄ Brg. W. Abut.	28839.03	-14.79	757.03	757.05
C	28849.03	-14.79	757.14	757.18
D	28859.03	-14.79	757.23	757.28
E	28869.03	-14.79	757.30	757.35
F	28879.03	-14.79	757.37	757.40
℄ Brg. Pier 1	28888.76	-14.79	757.42	757.44
G	28898.76	-14.79	757.45	757.49
H	28908.76	-14.79	757.48	757.53
I	28918.76	-14.79	757.49	757.56
J	28928.76	-14.79	757.49	757.54
K	28938.76	-14.79	757.47	757.51
℄ Brg. Pier 2	28950.76	-14.79	757.43	757.45
L	28960.76	-14.79	757.39	757.42
M	28970.76	-14.79	757.33	757.38
N	28980.76	-14.79	757.26	757.31
O	28990.76	-14.79	757.17	757.22
℄ Brg. E. Abut.	29000.49	-14.79	757.08	757.10
Bk. E. Abut.	29001.76	-14.79	757.07	757.09



At Minimum Fillet

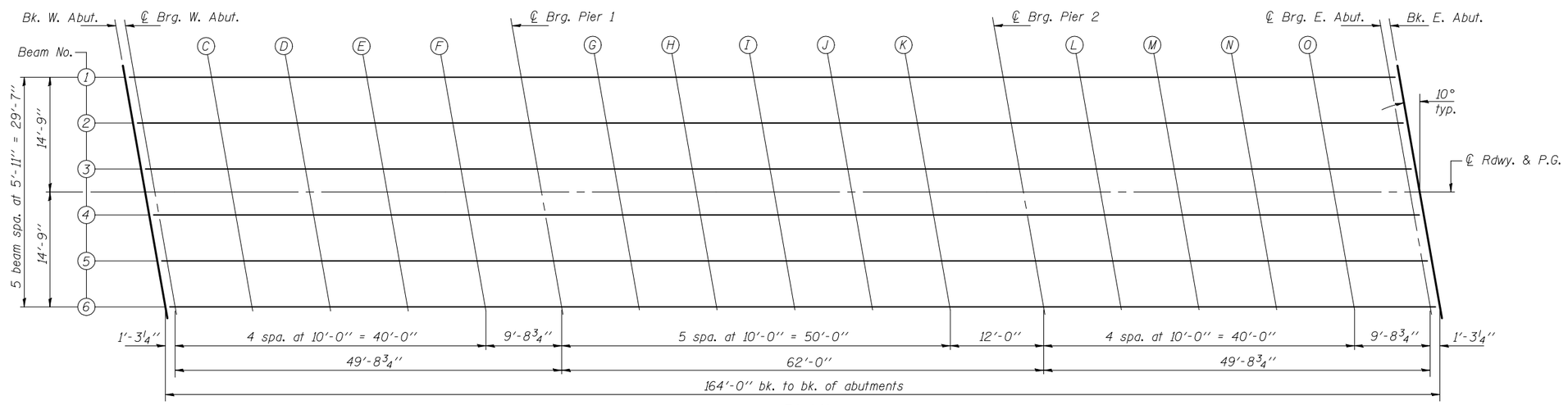
At Maximum Fillet

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding" shown below and on sheet 5 of 25, minus 8 1/4" deck thickness, equals the fillet height "t" above top flange of beams.

The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the " Theoretical Grade Elevations" shown on this sheet and sheet 5 of 25. For grinding the deck, see Special Provisions.

FILLET HEIGHTS

*Prior to grinding



PLAN

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 074-0086

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 4	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	89
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	28838.81	-8.88	757.13	757.15
℄ Brg. W. Abut.	28840.07	-8.88	757.15	757.17
C	28850.07	-8.88	757.25	757.30
D	28860.07	-8.88	757.34	757.39
E	28870.07	-8.88	757.42	757.46
F	28880.07	-8.88	757.48	757.51
℄ Brg. Pier 1	28889.81	-8.88	757.53	757.55
G	28899.81	-8.88	757.56	757.60
H	28909.81	-8.88	757.59	757.64
I	28919.81	-8.88	757.60	757.66
J	28929.81	-8.88	757.59	757.65
K	28939.81	-8.88	757.58	757.62
℄ Brg. Pier 2	28951.81	-8.88	757.54	757.56
L	28961.81	-8.88	757.49	757.52
M	28971.81	-8.88	757.43	757.48
N	28981.81	-8.88	757.36	757.41
O	28991.81	-8.88	757.27	757.32
℄ Brg. E. Abut.	29001.54	-8.88	757.17	757.19
Bk. E. Abut.	29002.81	-8.88	757.16	757.18

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	28839.85	-2.96	757.24	757.26
℄ Brg. W. Abut.	28841.12	-2.96	757.25	757.27
C	28851.12	-2.96	757.35	757.40
D	28861.12	-2.96	757.44	757.50
E	28871.12	-2.96	757.52	757.56
F	28881.12	-2.96	757.58	757.61
℄ Brg. Pier 1	28890.85	-2.96	757.62	757.64
G	28900.85	-2.96	757.66	757.70
H	28910.85	-2.96	757.68	757.73
I	28920.85	-2.96	757.69	757.76
J	28930.85	-2.96	757.68	757.74
K	28940.85	-2.96	757.67	757.71
℄ Brg. Pier 2	28952.85	-2.96	757.63	757.65
L	28962.85	-2.96	757.58	757.61
M	28972.85	-2.96	757.52	757.56
N	28982.85	-2.96	757.44	757.50
O	28992.85	-2.96	757.35	757.40
℄ Brg. E. Abut.	29002.58	-2.96	757.26	757.28
Bk. E. Abut.	29003.85	-2.96	757.24	757.26

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	28840.37	0.00	757.29	757.31
℄ Brg. W. Abut.	28841.64	0.00	757.30	757.32
C	28851.64	0.00	757.40	757.45
D	28861.64	0.00	757.49	757.55
E	28871.64	0.00	757.57	757.61
F	28881.64	0.00	757.63	757.66
℄ Brg. Pier 1	28891.37	0.00	757.67	757.69
G	28901.37	0.00	757.71	757.74
H	28911.37	0.00	757.73	757.78
I	28921.37	0.00	757.73	757.80
J	28931.37	0.00	757.73	757.79
K	28941.37	0.00	757.71	757.75
℄ Brg. Pier 2	28953.37	0.00	757.67	757.69
L	28963.37	0.00	757.62	757.65
M	28973.37	0.00	757.56	757.61
N	28983.37	0.00	757.48	757.54
O	28993.37	0.00	757.40	757.44
℄ Brg. E. Abut.	29003.10	0.00	757.30	757.32
Bk. E. Abut.	29004.37	0.00	757.28	757.30

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	28840.89	2.96	757.25	757.27
℄ Brg. W. Abut.	28842.16	2.96	757.26	757.28
C	28852.16	2.96	757.36	757.41
D	28862.16	2.96	757.45	757.50
E	28872.16	2.96	757.52	757.57
F	28882.16	2.96	757.58	757.62
℄ Brg. Pier 1	28891.89	2.96	757.63	757.65
G	28901.89	2.96	757.66	757.70
H	28911.89	2.96	757.68	757.74
I	28921.89	2.96	757.69	757.76
J	28931.89	2.96	757.68	757.74
K	28941.89	2.96	757.66	757.70
℄ Brg. Pier 2	28953.89	2.96	757.62	757.64
L	28963.89	2.96	757.57	757.61
M	28973.89	2.96	757.51	757.56
N	28983.89	2.96	757.43	757.49
O	28993.89	2.96	757.34	757.39
℄ Brg. E. Abut.	29003.62	2.96	757.24	757.26
Bk. E. Abut.	29004.89	2.96	757.23	757.25

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	28841.93	8.88	757.17	757.19
℄ Brg. W. Abut.	28843.20	8.88	757.18	757.20
C	28853.20	8.88	757.28	757.33
D	28863.20	8.88	757.37	757.42
E	28873.20	8.88	757.44	757.49
F	28883.20	8.88	757.50	757.53
℄ Brg. Pier 1	28892.93	8.88	757.54	757.56
G	28902.93	8.88	757.57	757.61
H	28912.93	8.88	757.59	757.65
I	28922.93	8.88	757.60	757.66
J	28932.93	8.88	757.59	757.65
K	28942.93	8.88	757.57	757.61
℄ Brg. Pier 2	28954.93	8.88	757.52	757.54
L	28964.93	8.88	757.47	757.51
M	28974.93	8.88	757.41	757.46
N	28984.93	8.88	757.33	757.39
O	28994.93	8.88	757.24	757.29
℄ Brg. E. Abut.	29004.67	8.88	757.14	757.16
Bk. E. Abut.	29005.93	8.88	757.13	757.15

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	28842.98	14.79	757.07	757.09
℄ Brg. W. Abut.	28844.25	14.79	757.09	757.11
C	28854.25	14.79	757.18	757.23
D	28864.25	14.79	757.27	757.32
E	28874.25	14.79	757.34	757.38
F	28884.25	14.79	757.39	757.43
℄ Brg. Pier 1	28893.98	14.79	757.44	757.46
G	28903.98	14.79	757.47	757.51
H	28913.98	14.79	757.49	757.54
I	28923.98	14.79	757.49	757.56
J	28933.98	14.79	757.48	757.54
K	28943.98	14.79	757.46	757.50
℄ Brg. Pier 2	28955.98	14.79	757.41	757.43
L	28965.98	14.79	757.36	757.39
M	28975.98	14.79	757.30	757.34
N	28985.98	14.79	757.22	757.27
O	28995.98	14.79	757.13	757.17
℄ Brg. E. Abut.	29005.71	14.79	757.02	757.04
Bk. E. Abut.	29006.98	14.79	757.01	757.03

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 074-0086

SHEET NO. 5	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	90
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH CURB LINE

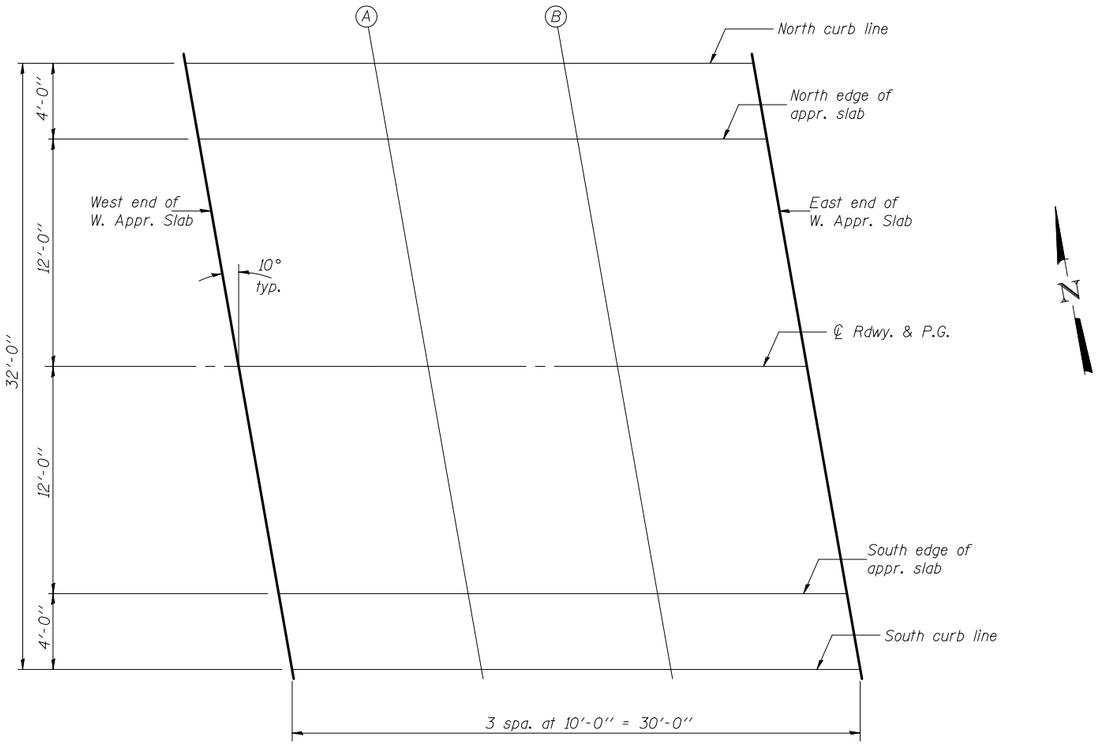
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West end of W. Appr. Slab	28807.55	-16.00	756.59	756.61
A	28817.55	-16.00	756.74	756.76
B	28827.55	-16.00	756.87	756.89
East end of W. Appr. Slab	28837.55	-16.00	756.99	757.01

NORTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West end of W. Appr. Slab	28808.25	-12.00	756.68	756.70
A	28818.25	-12.00	756.83	756.85
B	28828.25	-12.00	756.96	756.98
East end of W. Appr. Slab	28838.25	-12.00	757.08	757.10

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West end of W. Appr. Slab	28810.37	0.00	756.90	756.92
A	28820.37	0.00	757.05	757.07
B	28830.37	0.00	757.18	757.20
East end of W. Appr. Slab	28840.37	0.00	757.29	757.31



PLAN

SOUTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West end of W. Appr. Slab	28812.49	12.00	756.75	756.77
A	28822.49	12.00	756.89	756.91
B	28832.49	12.00	757.01	757.03
East end of W. Appr. Slab	28842.49	12.00	757.13	757.15

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West end of W. Appr. Slab	28813.19	16.00	756.68	756.70
A	28823.19	16.00	756.81	756.83
B	28833.19	16.00	756.94	756.96
East end of W. Appr. Slab	28843.19	16.00	757.05	757.07

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

E-AS1 10-1-08

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 074-0086

SHEET NO. 6	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	91
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH CURB LINE

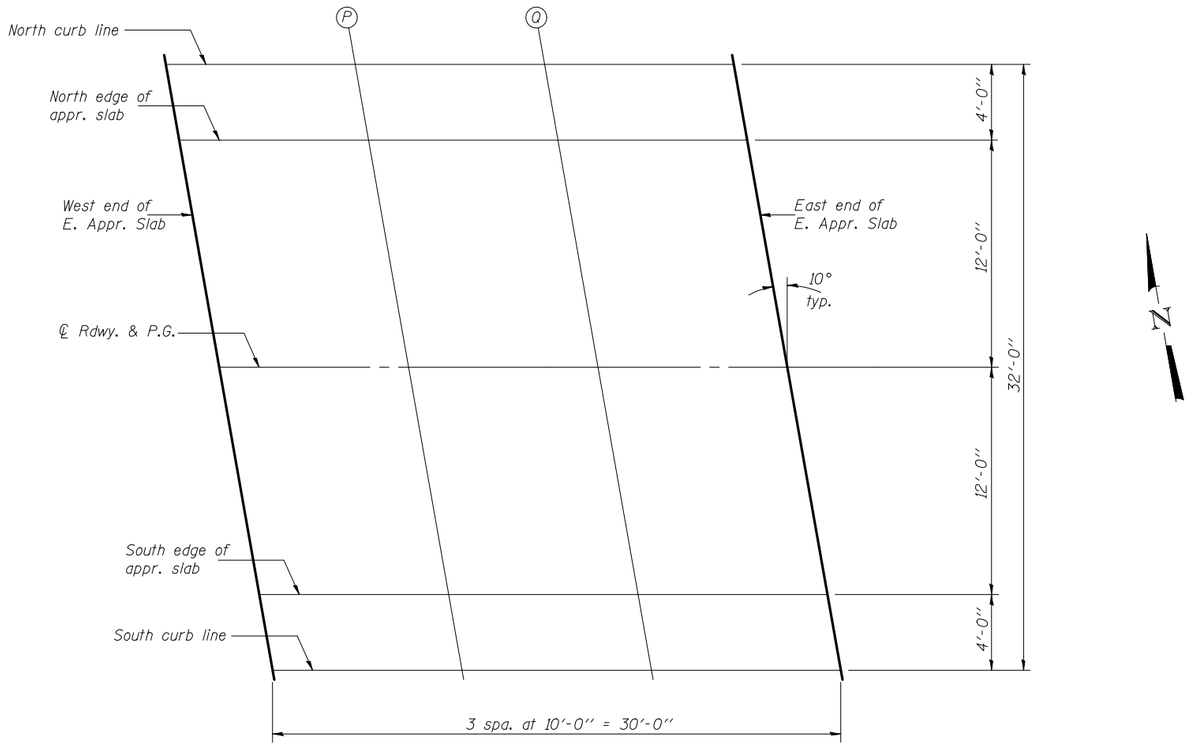
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West end of E. Appr. Slab	29001.55	-16.00	757.04	757.06
P	29011.55	-16.00	756.93	756.95
Q	29021.55	-16.00	756.80	756.82
East end of E. Appr. Slab	29031.55	-16.00	756.66	756.68

NORTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West end of E. Appr. Slab	29002.25	-12.00	757.12	757.14
P	29012.25	-12.00	757.00	757.02
Q	29022.25	-12.00	756.88	756.90
East end of E. Appr. Slab	29032.25	-12.00	756.74	756.76

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West end of E. Appr. Slab	29004.37	0.00	757.28	757.30
P	29014.37	0.00	757.17	757.19
Q	29024.37	0.00	757.04	757.06
East end of E. Appr. Slab	29034.37	0.00	756.89	756.91



PLAN

SOUTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West end of E. Appr. Slab	29006.49	12.00	757.07	757.09
P	29016.49	12.00	756.95	756.97
Q	29026.49	12.00	756.82	756.84
East end of E. Appr. Slab	29036.49	12.00	756.67	756.69

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West end of E. Appr. Slab	29007.19	16.00	756.98	757.00
P	29017.19	16.00	756.86	756.88
Q	29027.19	16.00	756.73	756.75
East end of E. Appr. Slab	29037.19	16.00	756.58	756.60

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

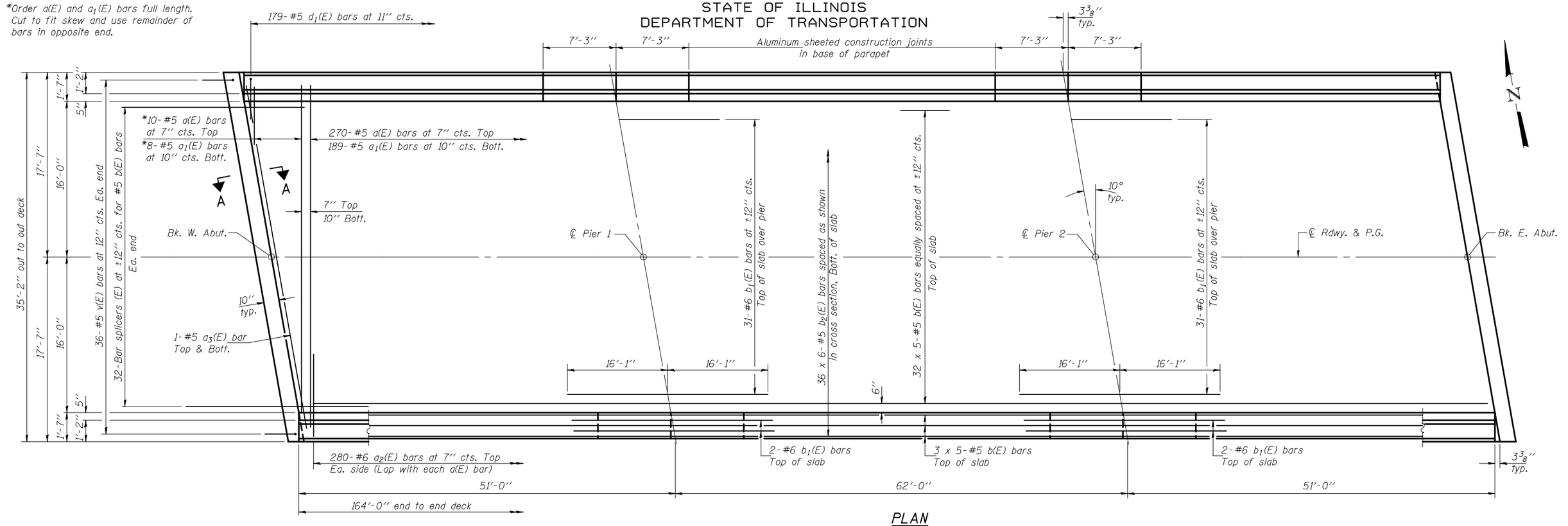
E-AS1

10-1-08

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 074-0086

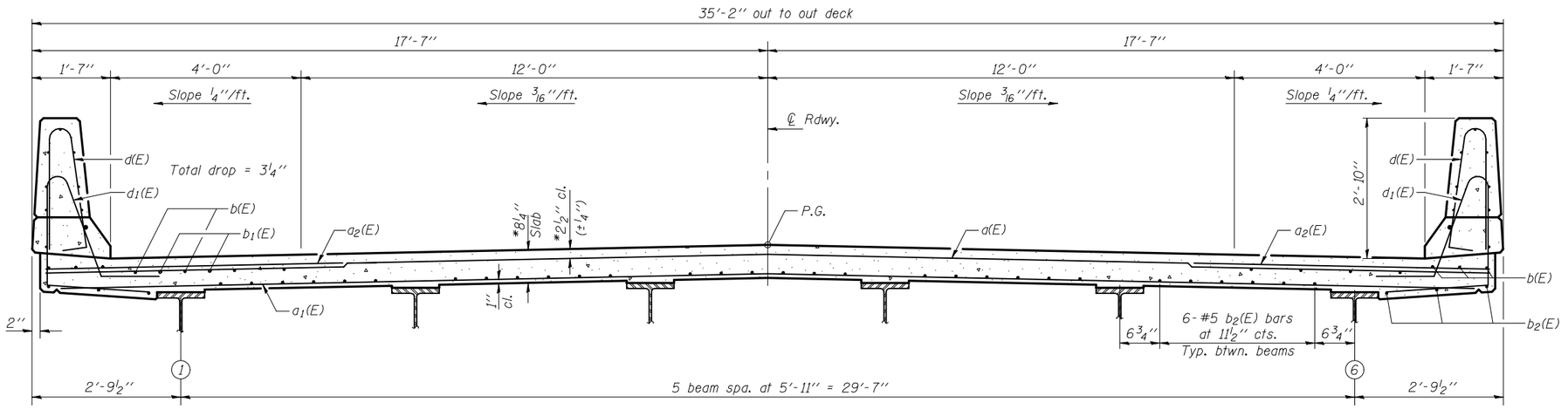
SHEET NO. 7	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	92
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN

MIN. BAR LAP
#5 bar = 2'-2''



NEAR PIER — NEAR MIDSPAN

CROSS SECTION
(Looking east)

*Prior to grinding.

Notes: See sheet 9 of 25 for superstructure details and Bill of Material.
Bars indicated thus 32 x 5-#5 etc. indicates 32 lines of bars with 5 lengths per line.
See sheet 9 of 25 for parapet reinforcement.
See sheet 10 of 25 for Section A-A.

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009

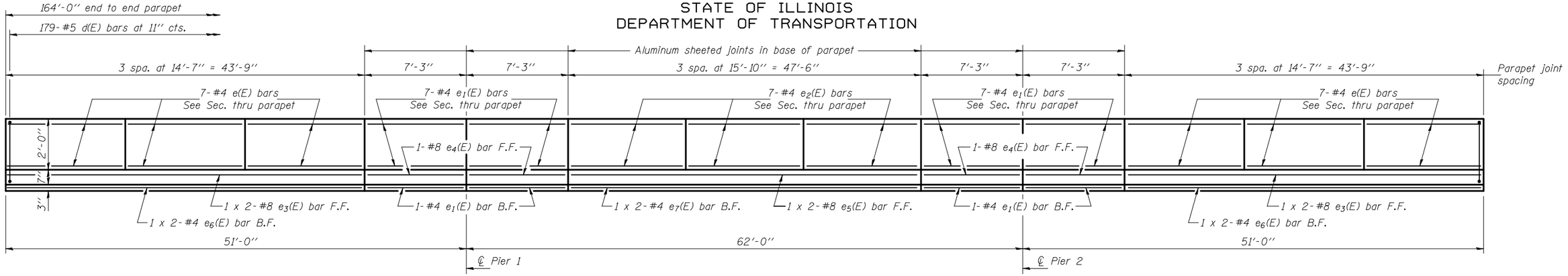
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

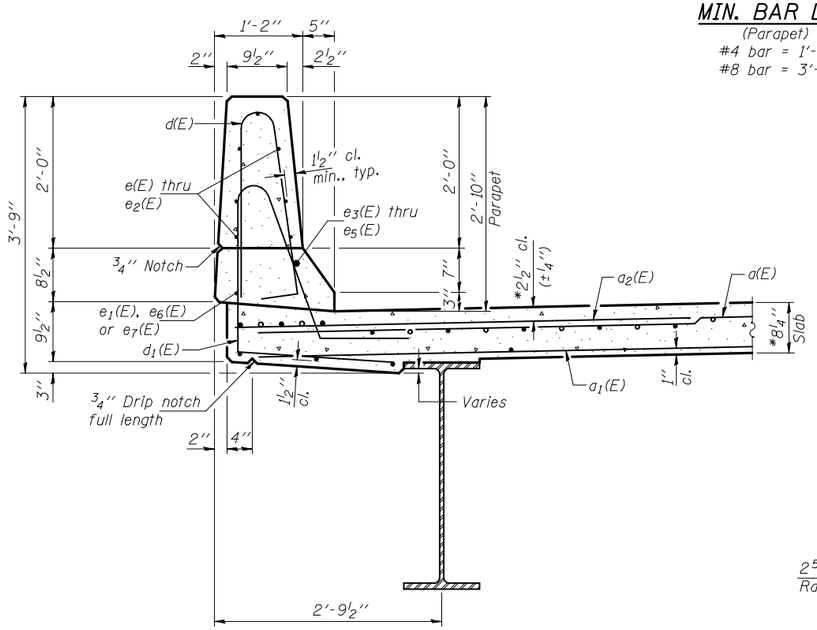
SUPERSTRUCTURE
STRUCTURE NO. 074-0086

SHEET NO. 8 25 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	93
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



INSIDE ELEVATION OF PARAPET

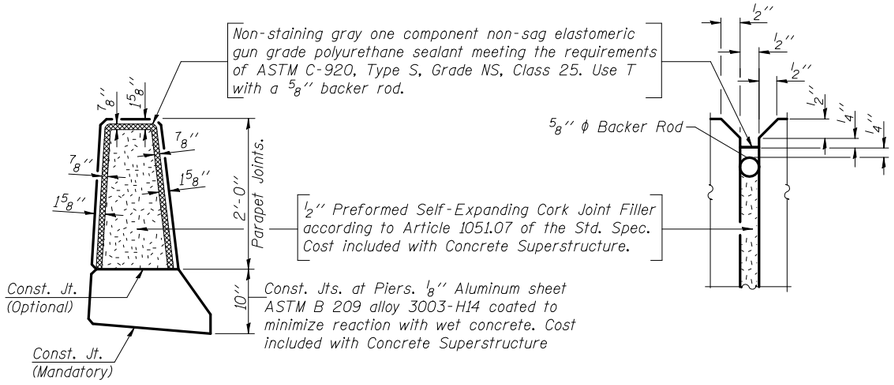


SECTION THRU PARAPET

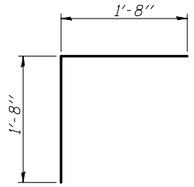
*Prior to grinding.

MIN. BAR LAP

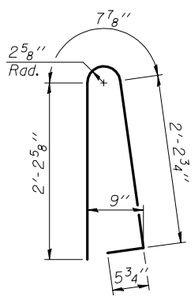
(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"



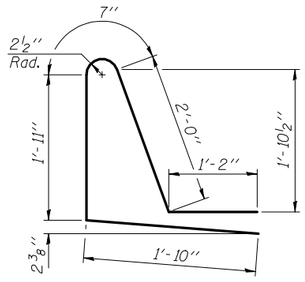
PARAPET JOINT DETAILS



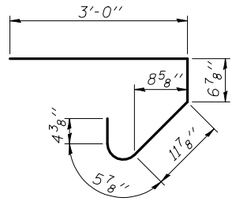
BAR v(E)



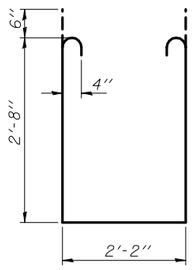
BAR d(E)



BAR d_1(E)



BAR s(E)



BAR s_1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	280	#5	34'-7"	
d_1(E)	197	#5	34'-0"	
d_2(E)	560	#6	6'-0"	
d_3(E)	4	#5	35'-0"	
b(E)	190	#5	34'-6"	
b_1(E)	70	#6	32'-2"	
b_2(E)	216	#5	29'-1"	
d(E)	358	#5	5'-7"	
d_1(E)	358	#5	7'-6"	
e(E)	84	#4	14'-4"	
e_1(E)	64	#4	7'-0"	
e_2(E)	42	#4	15'-7"	
e_3(E)	8	#8	23'-6"	
e_4(E)	8	#8	7'-0"	
e_5(E)	4	#8	25'-4"	
e_6(E)	8	#4	22'-5"	
e_7(E)	4	#4	24'-4"	
m(E)	10	#6	35'-4"	
m_1(E)	24	#6	8'-3"	
m_2(E)	10	#6	5'-8"	
m_3(E)	4	#6	2'-6"	
s(E)	82	#5	5'-5"	
s_1(E)	72	#4	8'-6"	
v(E)	72	#5	3'-4"	
Reinforcement Bars, Epoxy Coated			Pound	48630
Concrete Superstructure			Cu. Yds.	210.1

Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

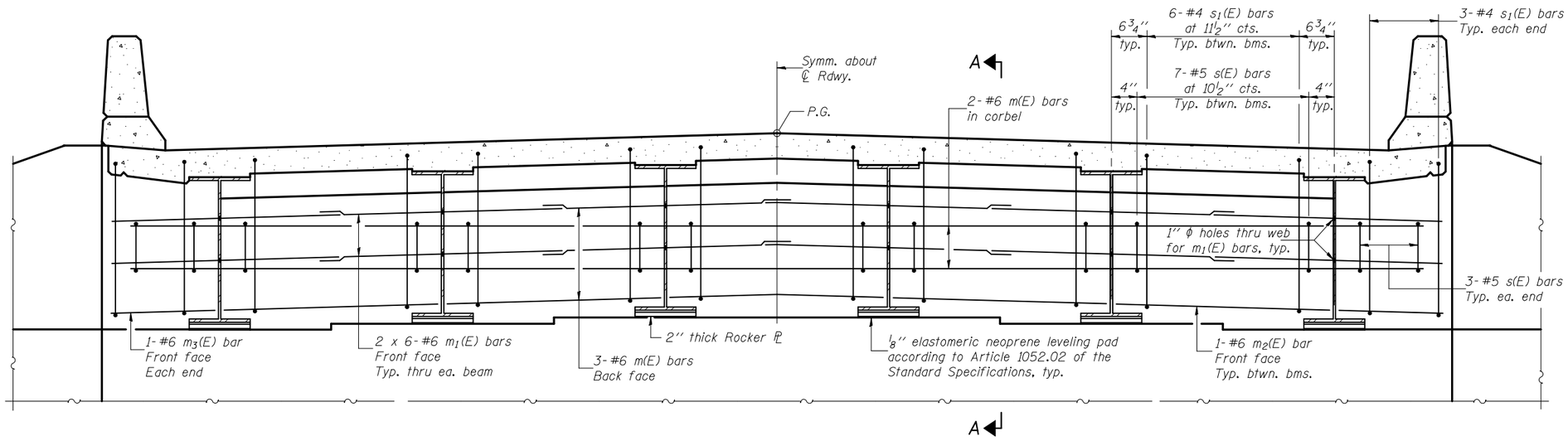
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 074-0086

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

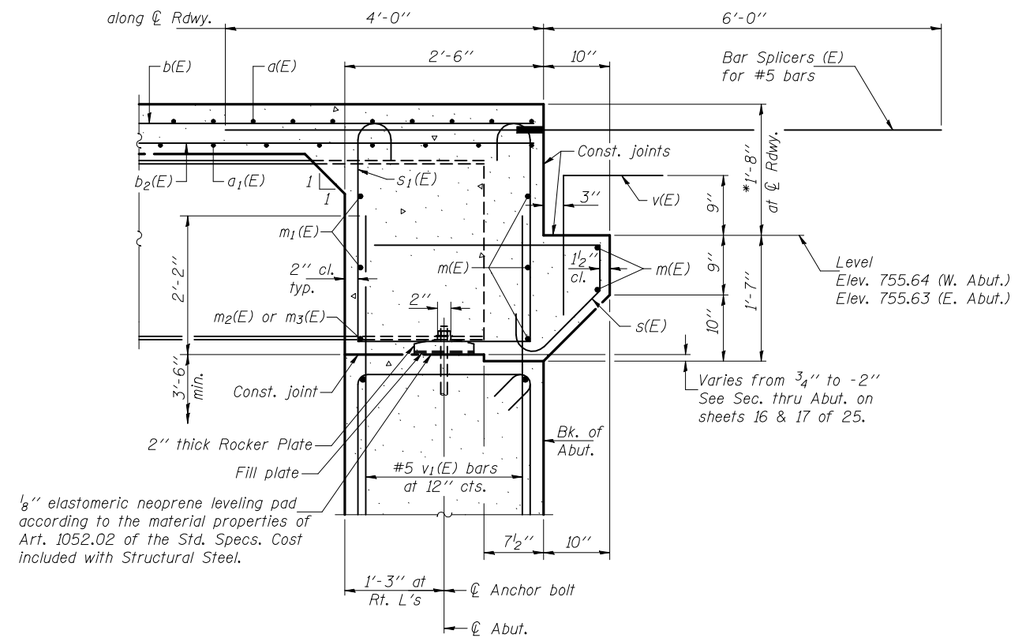
November 25, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 9	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	94
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DIAPHRAGM ELEVATION AT ABUTMENT



SECTION A-A

Dimensions at right L's to abutment, except as shown.

*Prior to grinding.

Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 9 of 25.
Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 25.
For details of bars s(E) & s_1(E) see sheet 9 of 25.
The s(E) and s_1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP

#6 bar = 2'-9"

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

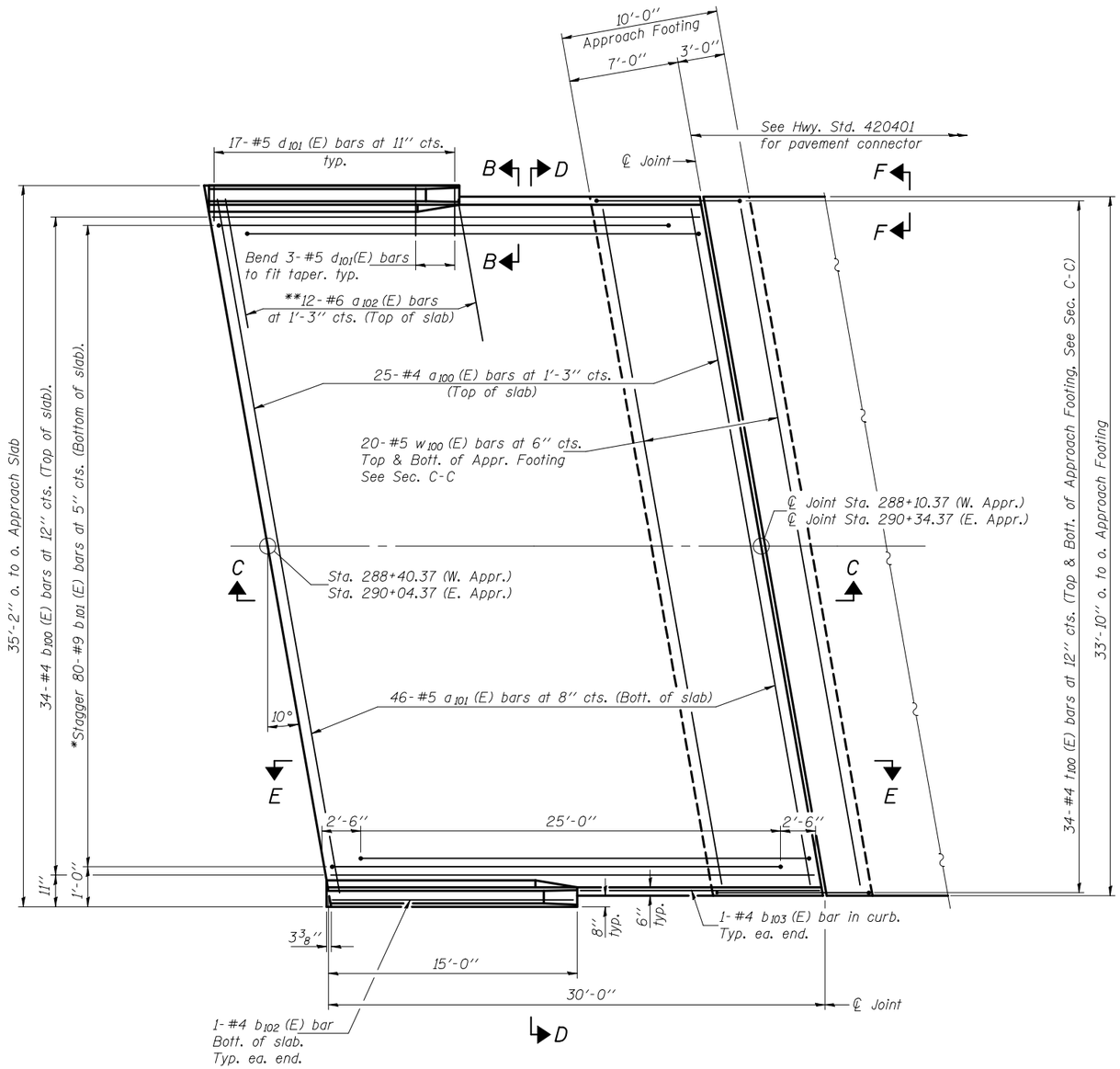
November 25, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

DIAPHRAGM DETAILS
STRUCTURE NO. 074-0086

SHEET NO. 10	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	95
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
See sheet 12 of 25 for Sections C-C & D-D and View E-E.
a_{100} (E), a_{101} (E), and w_{100} (E) bar spacings measured perpendicular to ℄ Rdwy.



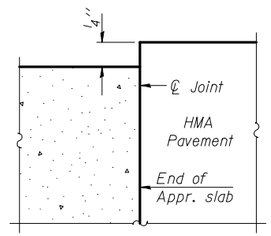
PLAN

*Tilt #9 b_{101} (E) bars as required to maintain clearance.
**Alternate with a_{100} (E) bars, typ. each parapet.

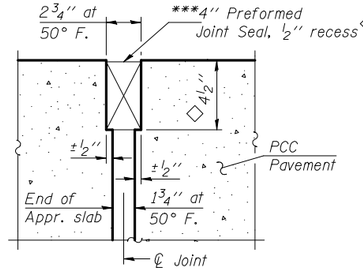
N
W. Abut.

N
E. Abut.

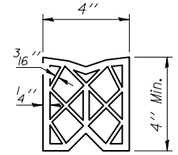
*** Cost included with Concrete Superstructure.



FLEXIBLE PAVEMENT



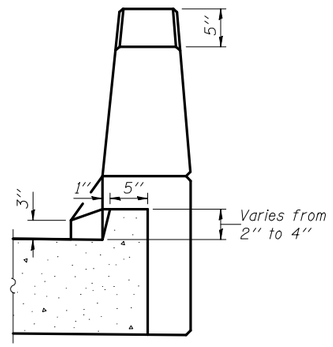
RIGID PAVEMENT



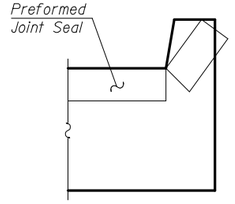
PREFORMED JOINT SEAL

DETAIL A

◇ Prior to grinding



VIEW B-B



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.

DESIGNED	D.P. Narielwala
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DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009
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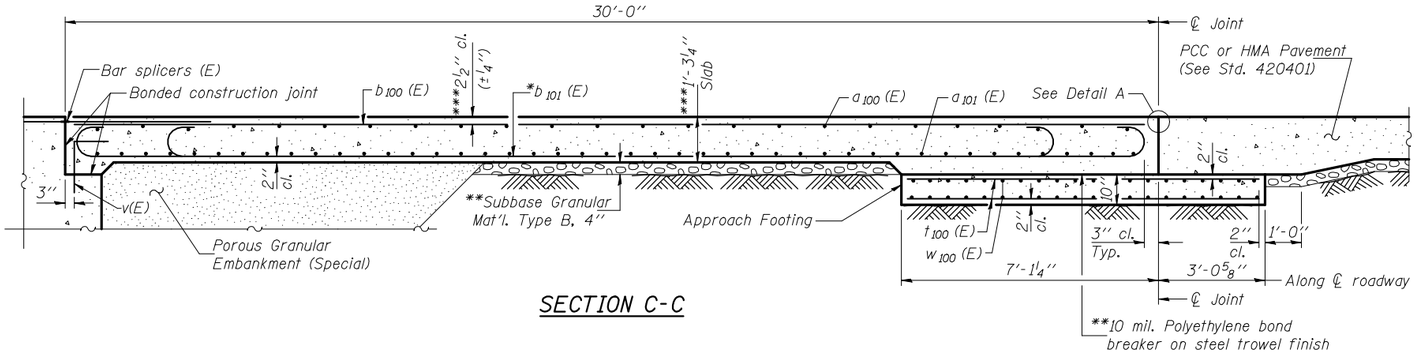
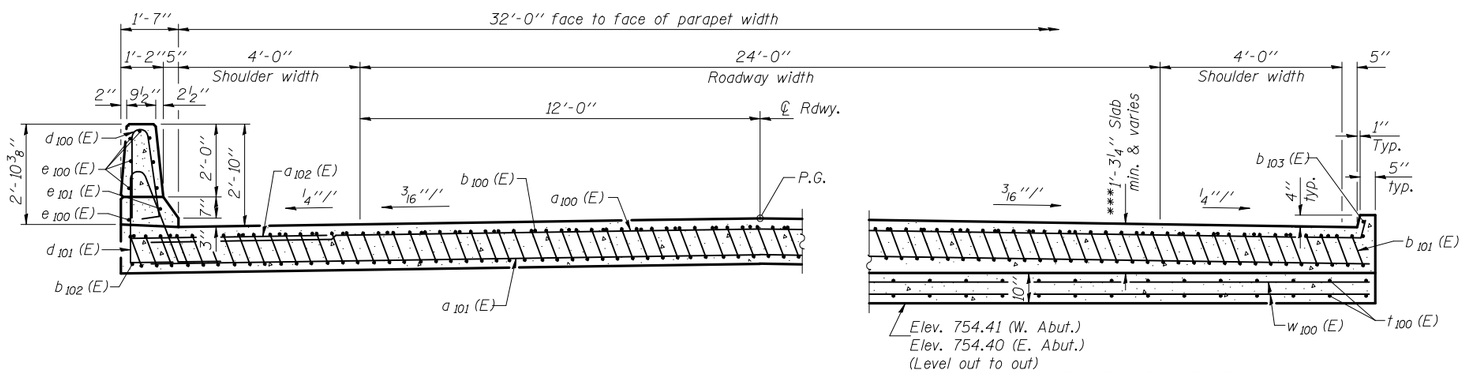
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 074-0086

SHEET NO. 11	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	96
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

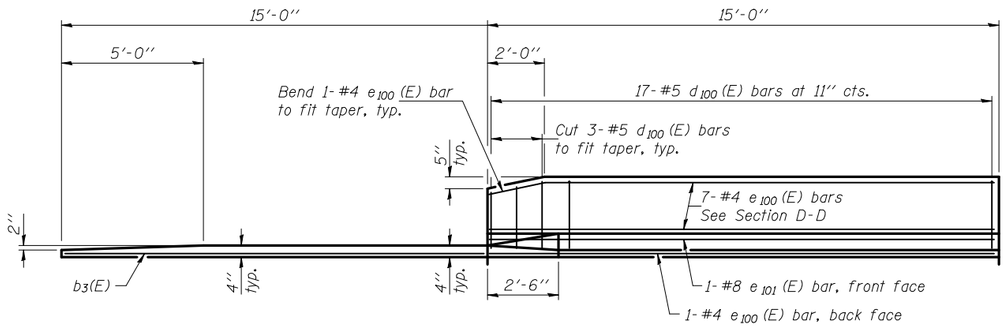


SECTION C-C



NEAR ABUTMENT — AT APPROACH FOOTING

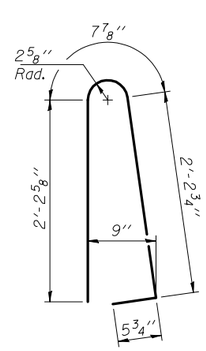
SECTION D-D
(See Plan for dimensions not shown)



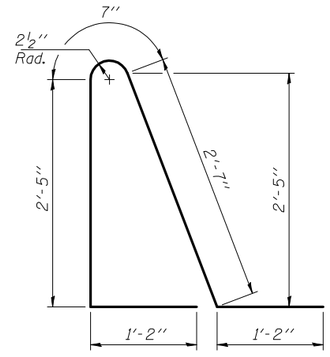
VIEW E-E

*Tilt #9 b 101 (E) bars as required to maintain clearance.
**Cost included with Concrete Superstructure.
***Prior to grinding.

Notes:
See sheet 11 of 25 for Detail A and View B-B.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bar details, see sheet 9 of 25.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see sheet 21 of 25.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 25.



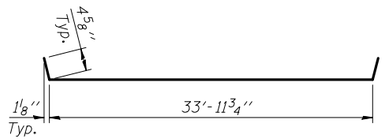
BAR d 100 (E)



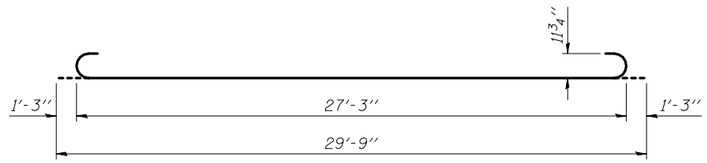
BAR d 101 (E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a 100 (E)	50	#4	34'-9"	
a 101 (E)	92	#5	34'-0"	
a 102 (E)	48	#6	6'-0"	
b 100 (E)	68	#4	29'-8"	
b 101 (E)	160	#9	29'-9"	
b 102 (E)	4	#4	14'-8"	
b 103 (E)	4	#4	14'-9"	
d 100 (E)	68	#5	5'-7"	
d 101 (E)	68	#5	7'-11"	
e 100 (E)	32	#4	14'-8"	
e 101 (E)	4	#8	14'-8"	
t 100 (E)	136	#4	9'-10"	
w 100 (E)	80	#5	34'-0"	
Concrete Superstructure			Cu. Yd.	109.3
Concrete Structures			Cu. Yd.	21.2
Reinforcement Bars, Epoxy Coated			Pound	27620



BAR a 100 (E)



BAR b 101 (E)

DESIGNED	D.P. Narielwala
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DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009
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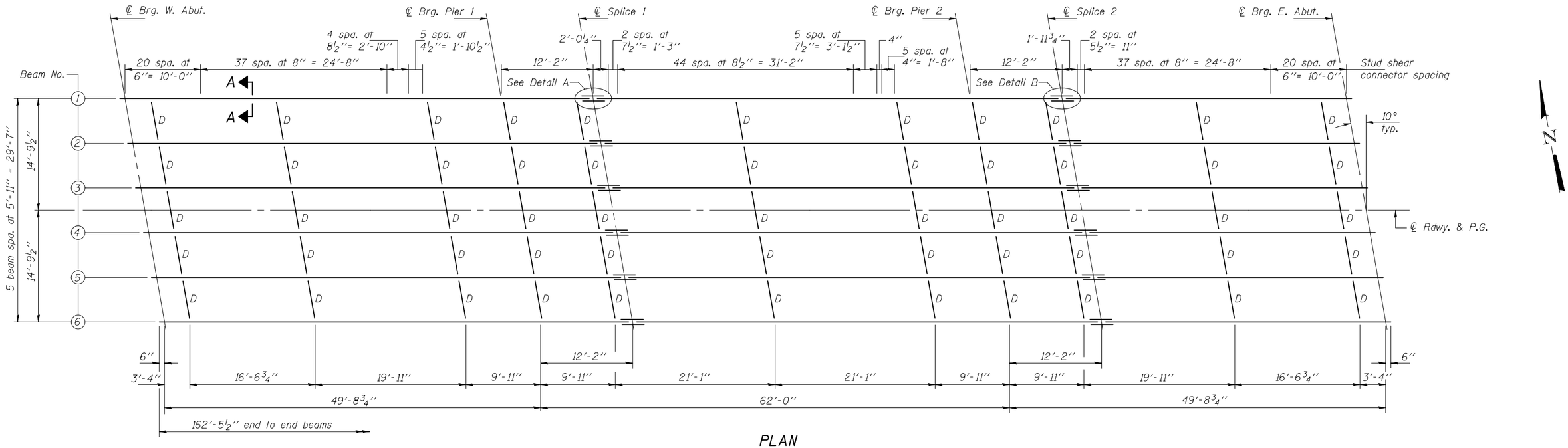
ENGINEER OF BRIDGES AND STRUCTURES

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 074-0086

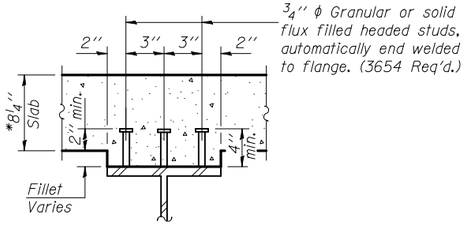
SHEET NO. 12	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	97
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



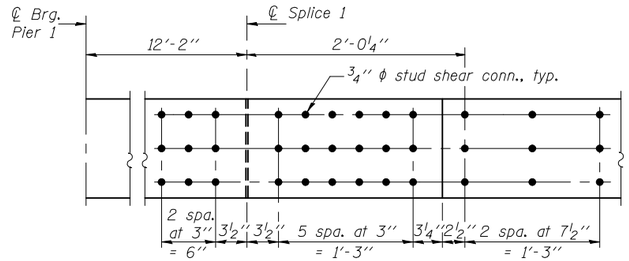
PLAN

(All beams are W27x94 AASHTO Grade 50W and NTR.)



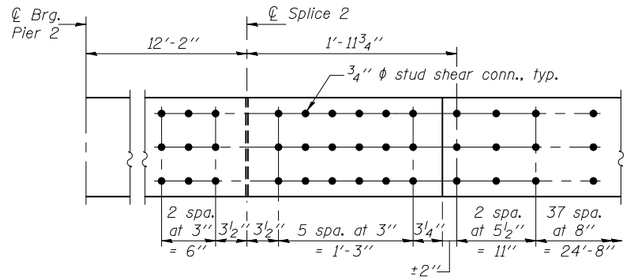
SECTION A-A

*Prior to grinding



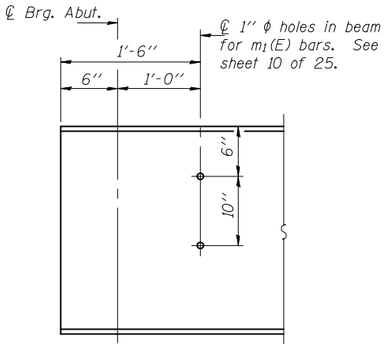
DETAIL A

(Splice bolts are not shown for clarity.)



DETAIL B

(Splice bolts are not shown for clarity.)



END OF BEAM ELEVATION

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STRUCTURAL STEEL
STRUCTURE NO. 074-0086

SHEET NO. 13	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	1517	12VBR-1	PIATT	168	98
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1 0.6 Sp. 3	Pier 1 or Pier 2	0.5 Sp. 2
I_s	(in^4)	3270	3270	3270
$I_{c(n)}$	(in^4)	9809	———	9809
$I_{c(3n)}$	(in^4)	7235	———	7235
S_s	(in^3)	243	243	243
$S_{c(n)}$	(in^3)	378	———	378
$S_{c(3n)}$	(in^3)	341	———	341
DC1	(k/')	0.72	0.72	0.72
M_{DC1}	('k)	123.0	228.8	118.6
DC2	(k/')	0.15	0.15	0.15
M_{DC2}	('k)	30.2	35.7	36.3
DW	(k/')	0.30	0.30	0.30
M_{DW}	('k)	59.7	70.5	71.7
M_{L+Imp}	('k)	458.2	254.4	499.0
M_u(Strength I)	('k)	1083	882	1174
$\phi_f M_n$, $\phi_f M_{nc}$	('k)	2159	1158	2159
f_s DC1	(ksi)	6.1	11.3	5.9
f_s DC2	(ksi)	1.1	1.8	1.3
f_s DW	(ksi)	2.1	3.5	2.5
f_s 1.3(L+I)	(ksi)	18.9	16.3	20.6
f_s (Service II)	(ksi)	28.2	32.9	30.3
V_f	(k)	24.5	———	20.6

INTERIOR BEAM REACTION TABLE			
		Abutments	Piers
R_{DC1}	(k)	13.4	45.0
R_{DC2}	(k)	3.0	9.1
R_{DW}	(k)	5.9	17.9
R_{L+Imp}	(k)	62.8	86.6
R_{Total}	(k)	85.1	158.6

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in^4 and in^3).

$I_{c(n)}$, $S_{c(n)}$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in^4 and in^3).

$I_{c(3n)}$, $S_{c(3n)}$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in^4 and in^3).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+Imp}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

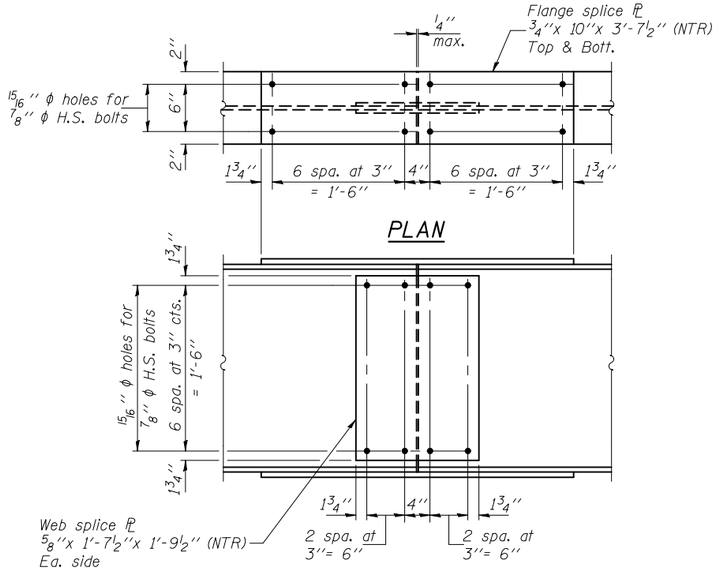
M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{L+Imp}

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

$\phi_f M_{nc}$: Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).

f_s (Service II): Sum of stresses as computed from the moments below (ksi).
M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_{L+Imp}

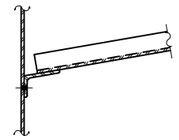
V_f: Factored shear range in span computed according to Art. 6.10.10.



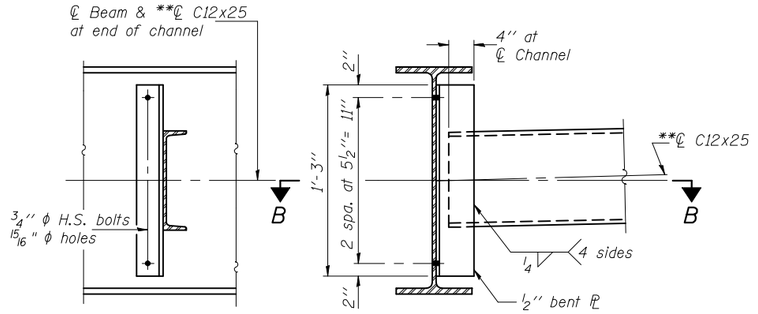
*TOP OF BEAM ELEVATIONS

Location	℄ Brg. W. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Brg. Pier 2	℄ Splice 2	℄ Brg. E. Abut.
Beam 1	756.31	756.62	756.70	756.64	756.62	756.36
Beam 2	756.43	756.74	756.81	756.74	756.73	756.46
Beam 3	756.54	756.83	756.91	756.83	756.82	756.54
Beam 4	756.56	756.84	756.91	756.83	756.81	756.53
Beam 5	756.47	756.75	756.82	756.73	756.71	756.42
Beam 6	756.37	756.65	756.71	756.62	756.60	756.30

*For fabrication use only.



SECTION B-B



DIAPHRAGM D
(55 Required)

**Alternate channel C12x30 may be used to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section, C12x25. The alternate channel C12x30, if utilized, shall be provided at no extra cost to the Department.

Notes: Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
All splice plate material shall be AASHTO M 270 Grade 50W.

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009
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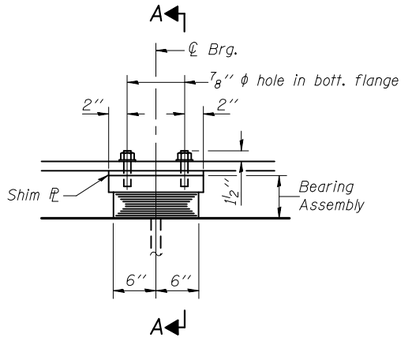
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

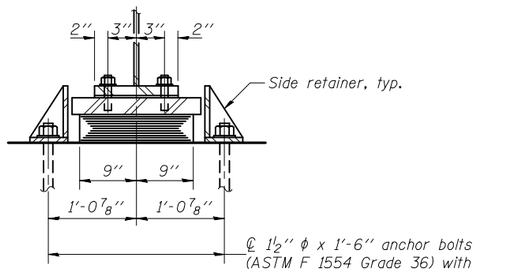
STRUCTURAL STEEL DETAILS
STRUCTURE NO. 074-0086

SHEET NO. 14 25 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	99
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

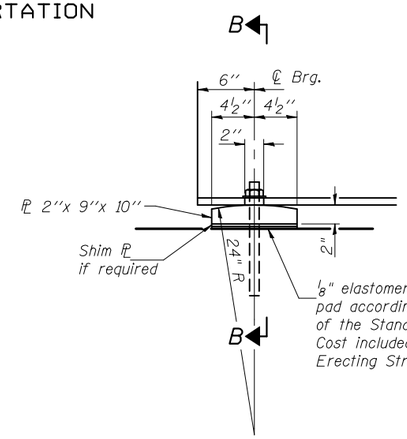


ELEVATION AT PIERS 1 & 2

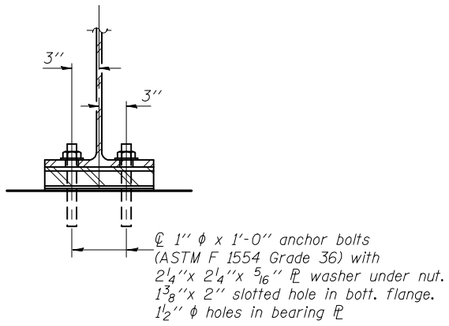


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.
(12 Required)

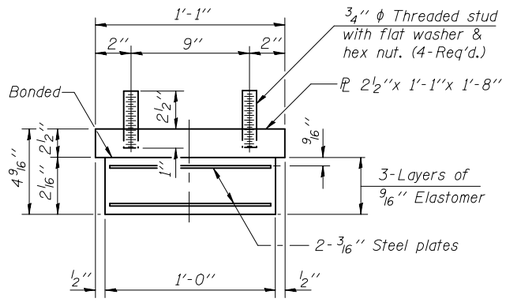


ELEVATION AT ABUTMENTS



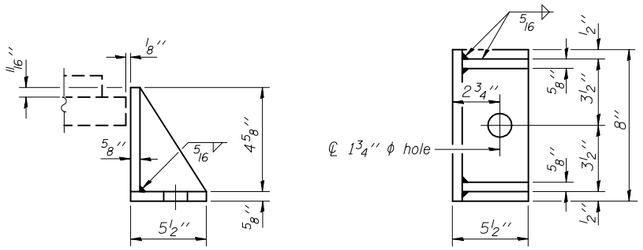
SECTION B-B

FIXED BEARING
(12 Required)



BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

All bearing plates shall be AASHTO M 270 Grade 50W.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts 1 1/2"	Each	24
Anchor Bolts 1"	Each	24

DESIGNED	D.P. Narielwala
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CHECKED	DPN/SMR

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PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

BEARING DETAILS
STRUCTURE NO. 074-0086

SHEET NO. 15 25 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	100
			CONTRACT NO. 70388		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		