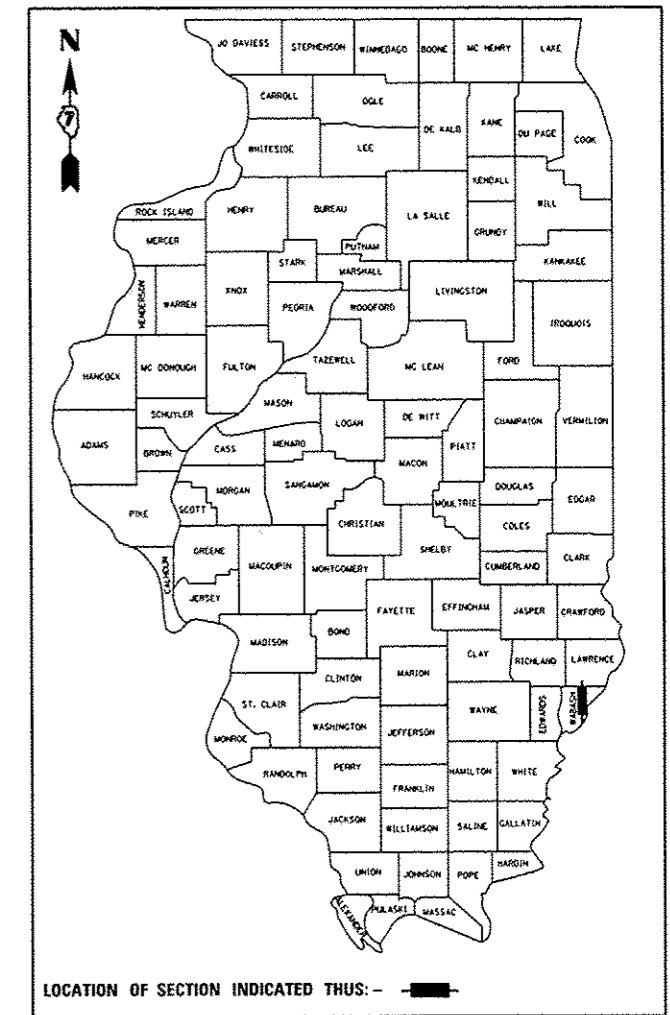


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	1
ILLINOIS			CONTRACT NO. 74220	

\* 53 + 3 = 56

D-97-007-07



FUNCTIONAL CLASSIFICATION:	OTHER PRINCIPAL ARTERIAL
DESIGN SPEED:	40 MPH
POSTED SPEED:	35 MPH
ADT:	4850 (2010)
PV:	91%
SU:	5%
MU:	4%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Oct. 17 20 13  
Roger L. Driskell  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 6 20 13  
John D. Baranzelli, PE  
actg ENGINEER OF DESIGN AND ENVIRONMENT

Dec 6 20 13  
Omer Osman, PE  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

# PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 332 (IL-1)  
SECTION (103B)B-1  
PROJECT ACNHPP-0332 (118)  
BRIDGE REPLACEMENT  
WABASH COUNTY

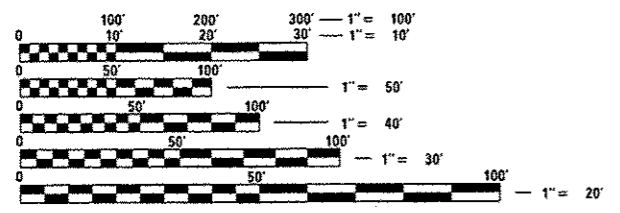
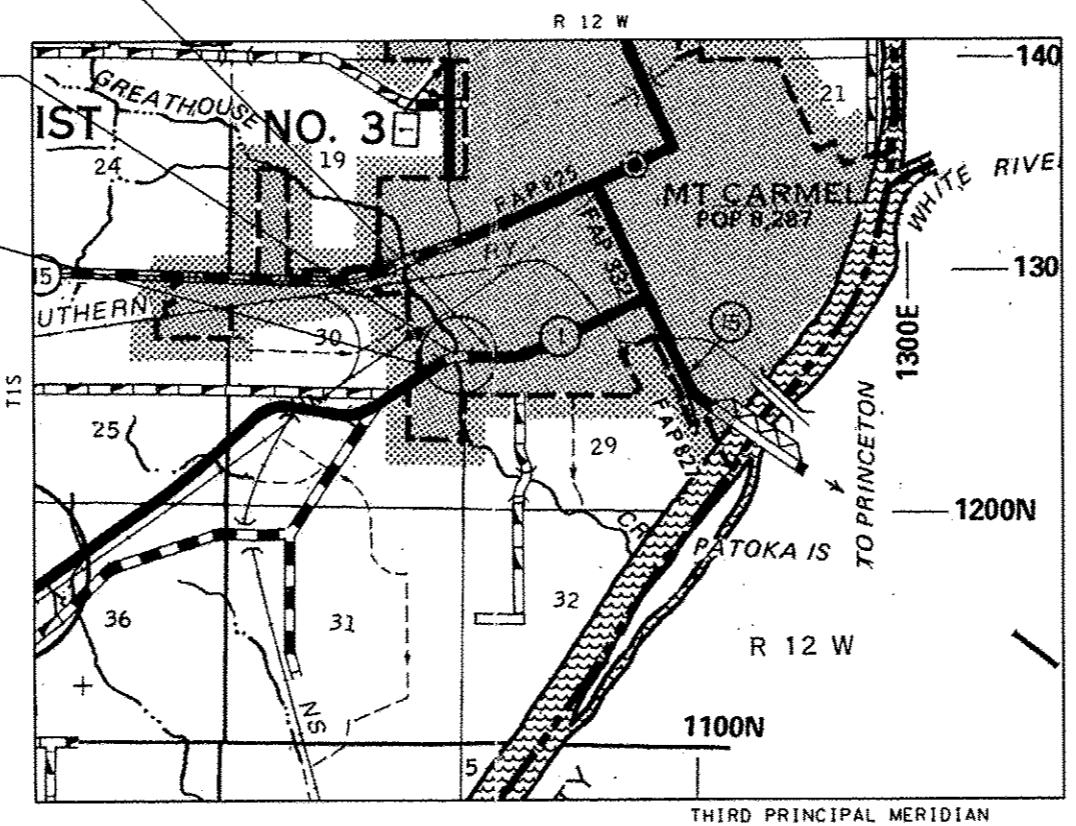
C-97-008-07  
IL. 1 OVER GREATHOUSE CREEK

SHEET NO.	INDEX OF SHEETS
1	COVER SHEET
2	GENERAL NOTES AND STANDARDS
3-4, 4A, 4B	SUMMARY OF QUANTITIES
5-9	TYPICAL SECTIONS
10-11, 11A	SCHEDULE OF QUANTITIES
12	ALIGNMENT TIES
13	PLAN & PROFILE SHEET
14	DRAINAGE PLAN
15	EROSION & SEDIMENT CONTROL PLAN
16-36	BRIDGE PLANS
37-40	EXISTING STRUCTURE PLANS
41-42	BOX CULVERT EXTENSION
43	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
44	ROAD CLOSURE DETAIL
45-46	DETAILS
47-53	CROSS-SECTIONS

IMPROVEMENT ENDS  
STA. 853+00.00

SECTION (103B)B-1  
PROPOSED S.N. 093-0026  
STATION 850+40.50  
BRIDGE STRUCTURE REPLACEMENT  
OVER GREATHOUSE CREEK

IMPROVEMENT BEGINS  
STA. 847+50.00



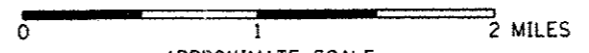
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TOM RONAN  
217-342-8320  
TOWNSHIP: MOUNT CARMEL  
CONTRACT NO. 74220

DESIGN DESIGNATION  
N.A.

LOCATION MAP



APPROXIMATE SCALE  
GROSS LENGTH = 550 FT. = 0.1042 MI.  
NET LENGTH = 550 FT. = 0.1042 MI.



Michael T. Matzke  
SIGNATURE

October 15, 2013  
DATE

LIC. EXP. DATE: Nov. 30, 2015  
QUIGG ENGINEERING, INC.

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STD. NO.	DESCRIPTION
000001-06	"STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS"
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420401-10	BRIDGE APPROACH PAVEMENT CONNECTOR
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-01	METAL END SECTION FOR PIPE CULVERTS
601101-01	CONCRETE HEADWALL FOR PIPE DRAINS
602306-03	"INLET, TYPE B"
602401-03	MANHOLE TYPE A
604006-04	FRAME & GRATE TYPE 3
606006-02	OUTLETS FOR CONCRETE CURB & GUTTER TYPE B-6.24
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-12	"TRAFFIC BARRIER TERMINAL, TYPE B"
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701001-02	"OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY"
701006-05	"OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24'" FROM PAVEMENT EDGE"
701301-04	"LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS"
701801-05	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
BLR21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES - CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES - CONSTRUCTION ON RURAL LOCAL HIGHWAYS (2L2W - ROAD CLOSED TO THRU TRAFFIC)

GENERAL NOTES

- THE PROPOSED PROJECT IS LOCATED ON ILLINOIS ROUTE 1 IN MT. CARMEL IN WABASH COUNTY.
- THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012, THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2014, AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.
- THE WORK INCLUDED IN SECTION (103B)B-1 CONSISTS OF REPLACING AN EXISTING SINGLE-SPAN STRUCTURE CARRYING IL ROUTE 1 OVER GREATHOUSE CREEK AND 468 FT. OF APPROACH WORK WHICH INCLUDES: EXTENDING AN EXISTING REINFORCED CONCRETE BOX CULVERT, SHOULDER RECONSTRUCTION, STORM SEWERS/INLET, SIDEWALK, RESURFACING, GUARDRAIL, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION.
- IN ADDITION TO SURVEYS, SOME OF THE PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING CONDITIONS HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCLUDED IN THE PAY ITEMS INVOLVED. THE SAW DEPTH IN THE PAVEMENT SHALL BE FULL DEPTH UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:
 

ALL HOT-MIX ASPHALT	112 LB/50 YD/IN
ALL AGGREGATE	2.05 TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.1 GAL/50 YD
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE

GENERAL NOTES

- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2A ACCORDING TO THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
- TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION EXCEPT AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- THE CONTRACTOR SHALL PROVIDED INTERNET ACCESSIBILITY TO THE HMA PLANT QUALITY CONTROL LAB SO THAT HMA PLANT REPORTS CAN BE EMAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.
- THE CONTRACTOR SHALL USE EITHER RC-70, SSIH, OR SSIHP, APPLIED AT THE RATE DIRECTED BY THE ENGINEER, FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT).
- AGGREGATE SURFACE COURSE AND AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.
- ALL WORK NECESSARY TO ATTACH THE PIPE DRAIN TO THE ABUTMENT DRAIN PIPE, TRENCHING IN THE PIPE DRAINS AND INSTALLING THE PIPE DRAIN TO THE CONCRETE HEADWALLS IS INCLUDED IN THE PAY ITEM FOR PIPE DRAINS OF THE DIAMETER SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROUTE SIGNS SUCH AS STOP SIGNS, SPEED LIMIT SIGNS, ETC. AND THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL PAY ITEMS.
- THE TREES LISTED IN THE TREE SCHEDULE SHALL BE APPROVED AND HAND PLANTED AT LOCATIONS AS DIRECTED BY THE DISTRICT ROADSIDE MAINTENANCE TECHNICIAN, (217)-342-8281. THE CONTRACTOR SHALL BE REQUIRED TO GIVE TWO WEEKS NOTICE TO SCHEDULE A TIME FOR THE LOCATIONS TO BE STAKED AND ON THE SAME DAY THE TREES SHALL BE DELIVERED TO THE JOBSITE FOR ACCEPTANCE OF THE PLANTING MATERIAL BY THE DISTRICT ROADSIDE MAINTENANCE TECHNICIAN.
- BASED ON CURRENT INFORMATION, THE EXISTING PAVEMENT SECTION CONSISTS OF 9'-6"-9" PCC WITH APPROXIMATELY 4" OF HMA OVERLAYS. ASSUME A PAVEMENT REMOVAL THICKNESS OF 13" FOR THE PAY ITEM "PAVEMENT REMOVAL".
- THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING 4" CONSISTS OF 148 FEET OF YELLOW AND 962 FEET OF WHITE. THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING 24" CONSISTS OF 23 FEET OF WHITE.

HMA MIXTURES REQUIREMENTS

APPLICATION(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70	HOT-MIX ASPHALT SHOULDERS	HOT-MIX ASPHALT SHOULDERS	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70
MIXTURE USE(S):	SURFACE COURSE, (1 1/2")	LEVEL BINDER (MACHINE METHOD 3/4")	BRIDGE APPROACH CONNECTOR (FLEXIBLE)	CLASS D PATCHING	HMA SHOULDERS (BOTTOM LIFT)	HMA SHOULDERS (TOP LIFT)	BASE COURSE WIDENING 10"
AC/PG:	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22
RAP % (MAX.)	10	10	10	10	50	50	10
DESIGN AIR VOIDS:	4.0% AT N DESIGN =70	4.0% AT N DESIGN =70	4.0% AT N DESIGN =70	4.0% AT N DESIGN =70	4.0% AT N DESIGN =30	4.0% AT N DESIGN =30	4.0% AT N DESIGN =30
MIXTURE COMPOSITION:	IL-9.5	IL-9.5	IL-19.0	IL-19.0	IL-19.0L	IL-9.5L	IL-19.0
FRICTION AGGREGATE:	MIXTURE C	N/A	N/A	N/A	N/A	MIXTURE C	N/A

IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

COMMITMENTS

- NONE AS OF DECEMBER 20, 2010. REFER TO COMMITMENT FILE FOR ANY COMMITMENTS AFTER THIS DATE

FILE NAME :	USER NAME : staffennk	DESIGNED - MTM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES AND STANDARDS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\dot\staffennk\d0122333\07	4229-shi-genote.dgn	DRAWN - JJS	REVISED -			332	103B18-1	WABASH	53	2
PLOT SCALE : 100.0000' / in.	CHECKED - MTM	REVISOR -	REVISOR -			SCALE: N.T.S.		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.
PLOT DATE : 10/17/2013	DATE - SEPTEMBER 2011	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT CONTRACT NO. 74220				



SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		80% FEDERAL ROADWAY 0004	20% STATE STRUCTURES 0011
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	15	15	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	443	443	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	208	208	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	79	79	
50200100	STRUCTURE EXCAVATION	CU YD	148		148
50200300	COFFERDAM EXCAVATION	CU YD	98		98
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1
50300100	FLOOR DRAINS	EACH	4		4
50300225	CONCRETE STRUCTURES	CU YD	200.9		200.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	337.4		337.4
50300260	BRIDGE DECK GROOVING	SO YD	522		522
50300280	CONCRETE ENCASEMENT	CU YD	18.6		18.6

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		80% FEDERAL ROADWAY 0004	20% STATE STRUCTURES 0011
50300300	PROTECTIVE COAT	SQ YD	730		730
50800105	REINFORCEMENT BARS	POUND	6380	6380	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	87490	130	87360
50800530	MECHANICAL SPLICERS	EACH	56		56
50901750	PARAPET RAILING	FOOT	81		81
51201800	FURNISHING STEEL PILES HP14X73	FOOT	2128		2128
51202305	DRIVING PILES	FOOT	2128		2128
51203800	TEST PILE STEEL HP14X73	EACH	4		4
51500100	NAME PLATES	EACH	1		1
54002020	EXPANSION BOLTS 3/4 INCH	EACH	26	26	
54003000	CONCRETE BOX CULVERTS	CU YD	40.4	40.4	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2	

14 \* SPECIALTY ITEM

FILE NAME :	USER NAME : sstaffennk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
c:\p-work\pides\stffennk\0122333\07	4220-shr-500.dgn	DRAWN -	REVISED -		SCALE: N/A	SHEET 2	OF 4	SHEETS	STA.	TO STA.	332	4103B-1	WABASH	53	4
Default	PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -								CONTRACT NO. 74220				
	PLOT DATE = 10/17/2013	DATE -	REVISED -		ILLINOIS FED. AID PROJECT										



SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		ROADWAY 0004	STRUCTURES 0011
54215559	METAL END SECTIONS 24"	EACH	2	2	
54248510	CONCRETE COLLAR	CU YD	1.7	1.7	
54201069	PIPE CULVERTS, CLASS D, TYPE 2 24"	FOOT	60	60	
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	321	321	
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	35	35	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	50	50	
60100905	PIPE DRAINS 4"	FOOT	26	26	
60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	2	2	
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	6	6	
60500060	REMOVING INLETS	EACH	2	2	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2.4	2.4	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	325	325	

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		ROADWAY 0004	STRUCTURES 0011
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	225	225	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
67100100	MOBILIZATION	L SUM	1	0.5	0.5
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	23	23	
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1110	1110	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6	6	
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	1	1	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4	

\* SPECIALTY ITEM

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE	
				ROADWAY 0004	STRUCTURES 0011
* B2001116	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	12	12	
* B2006016	TREE, SYRINGA PEKINENSIS (PEKING LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	7	7	
* D2002972	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	6	6	
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	68	68	
* X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5	0.5	
X4020500	AGGREGATE SURFACE COURSE, TYPE B 6"	SO YD	133	133	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	1340	1340	
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	50	50	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	23	23	

SUMMARY OF QUANTITIES				TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT			80% FEDERAL 20% STATE	
					ROADWAY 0004	STRUCTURES 0011
Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHOLES (COLD MIX)	TON	3	3		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	144			144
* Z0054505	ROCK FILL - REPLACEMENT	TON	31.1	31.1		
<del>Z0076600</del>	<del>TRAINEES</del>	<del>HR</del>	<del>500</del>	<del>250</del>	<del>250</del>	

\* SPECIALTY ITEM

3

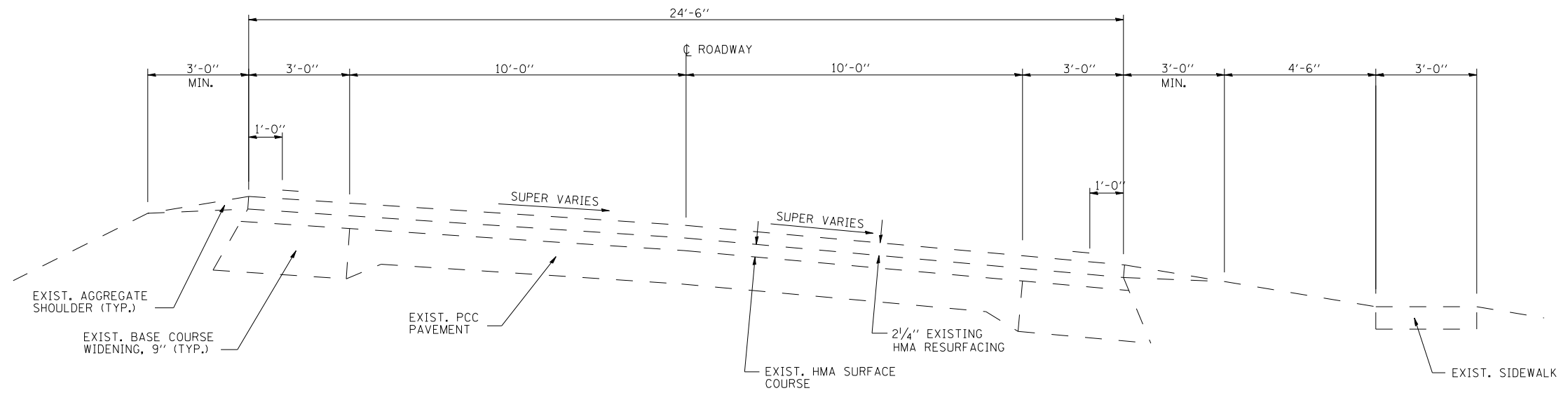
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Default	PLOT DATE = 10/17/2013	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

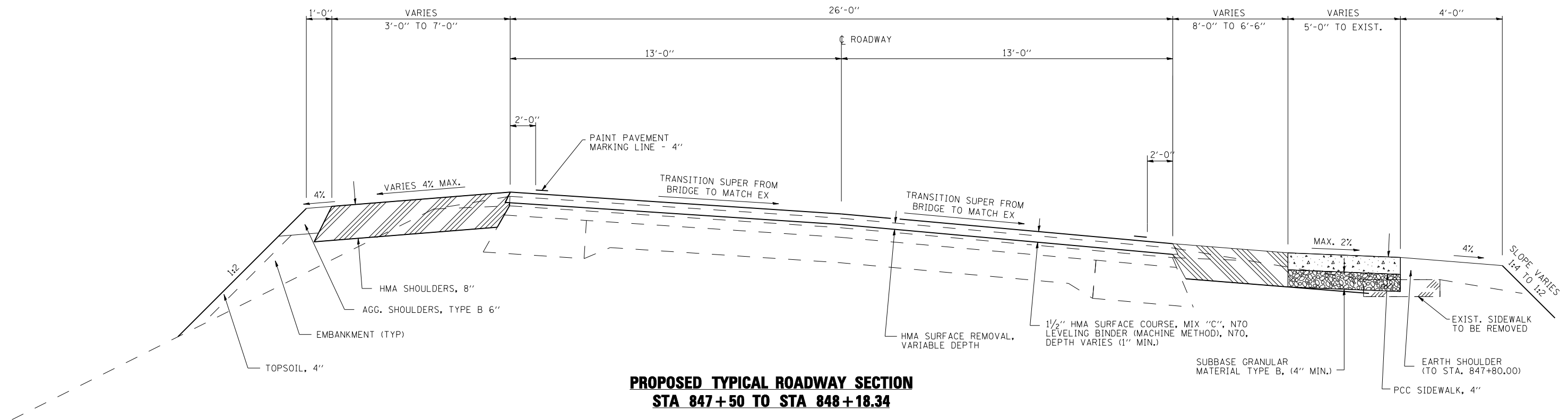
SUMMARY OF QUANTITIES

SCALE: N/A SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	48
CONTRACT NO. 74220				
ILLINOIS FED. AID PROJECT				

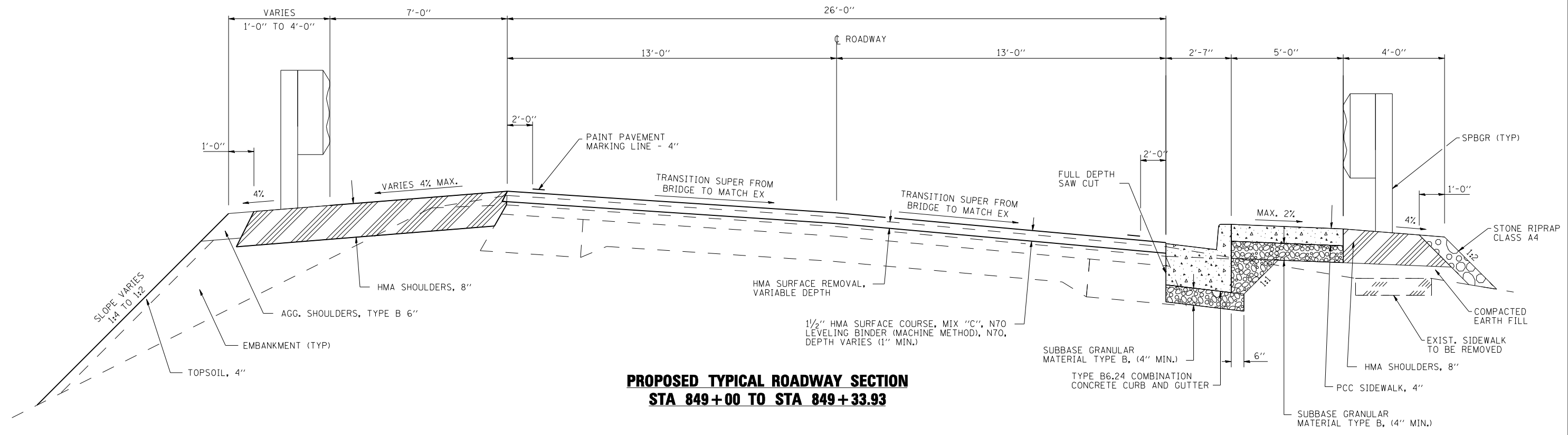
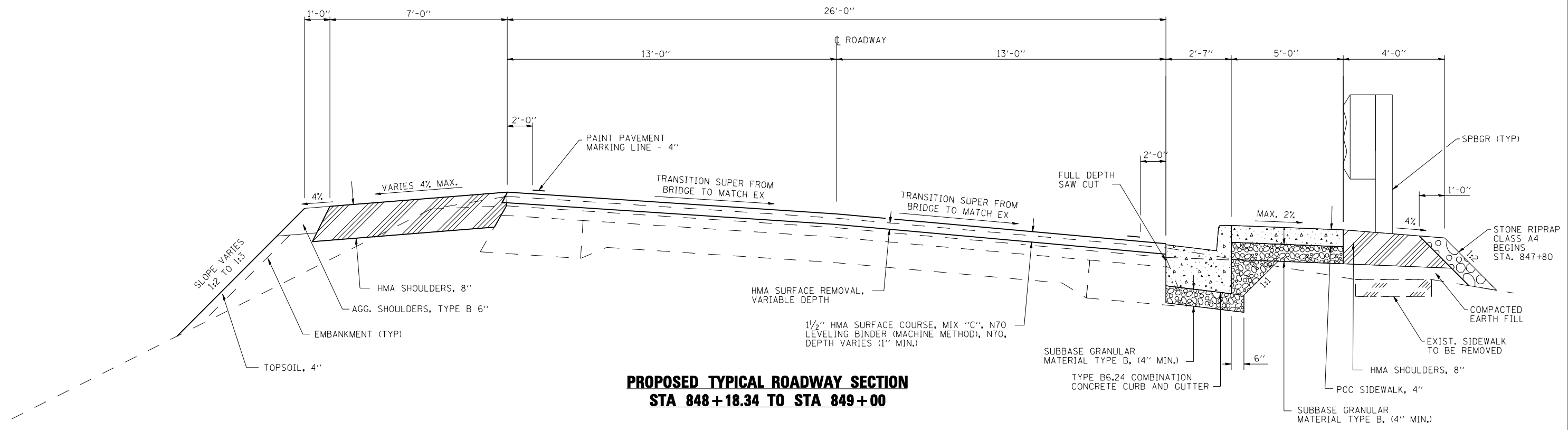


**EXISTING TYPICAL ROADWAY SECTION WEST OF STRUCTURE**

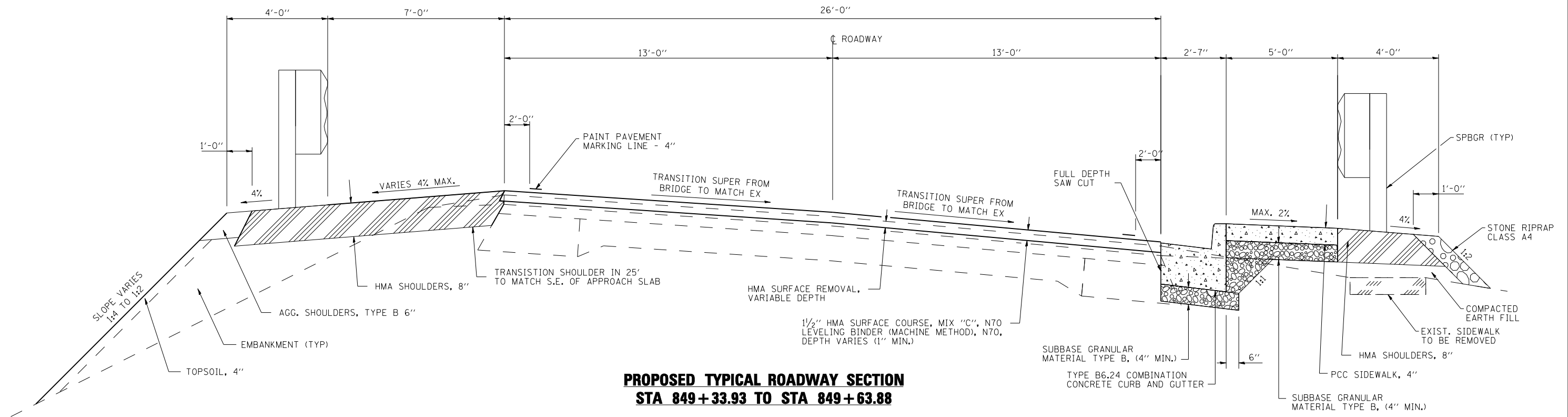


**PROPOSED TYPICAL ROADWAY SECTION  
STA 847+50 TO STA 848+18.34**

FILE NAME = Y:\IDOT\933-12.74220\CLIENT\Final (111215)	USER NAME = RJT	DESIGNED - MTM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE. 332	SECTION (103B)B-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 5
		DRAWN - JJS	REVISED -		SCALE: NTS	SHEET NO. 1 OF 5 SHEETS	STA. TO STA.	CONTRACT NO. 74220				
		CHECKED - MTM	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - SEPTEMBER 2011	REVISED -									



FILE NAME =	USER NAME = RJT	DESIGNED - MTM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RT. = 332	SECTION = (103B)-1	COUNTY = WABASH	TOTAL SHEETS = 53	SHEET NO. = 6
Y:\NIDOT\933-12.74220\CLIENT\Final (111215)	CADD\Highway\CADD Sheets\0774220-shr-typical	DRAWN - JJS	REVISED -		SCALE: NTS	SHEET NO. 2 OF 5 SHEETS	STA. TO STA.	CONTRACT NO. 74220				
	PLOT SCALE = 40.0000' / IN.	CHECKED - MTM	REVISED -		ILLINOIS FED. AID PROJECT							
	PLOT DATE = 12/15/2011	DATE - SEPTEMBER 2011	REVISED -									

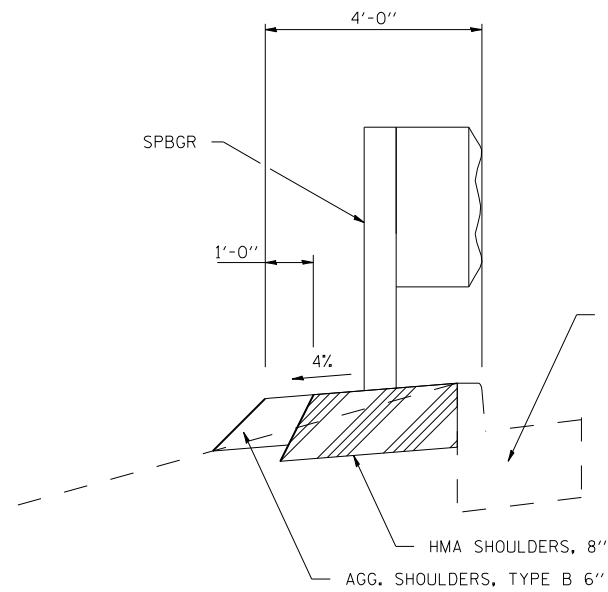


**PROPOSED TYPICAL ROADWAY SECTION  
STA 849+33.93 TO STA 849+63.88**

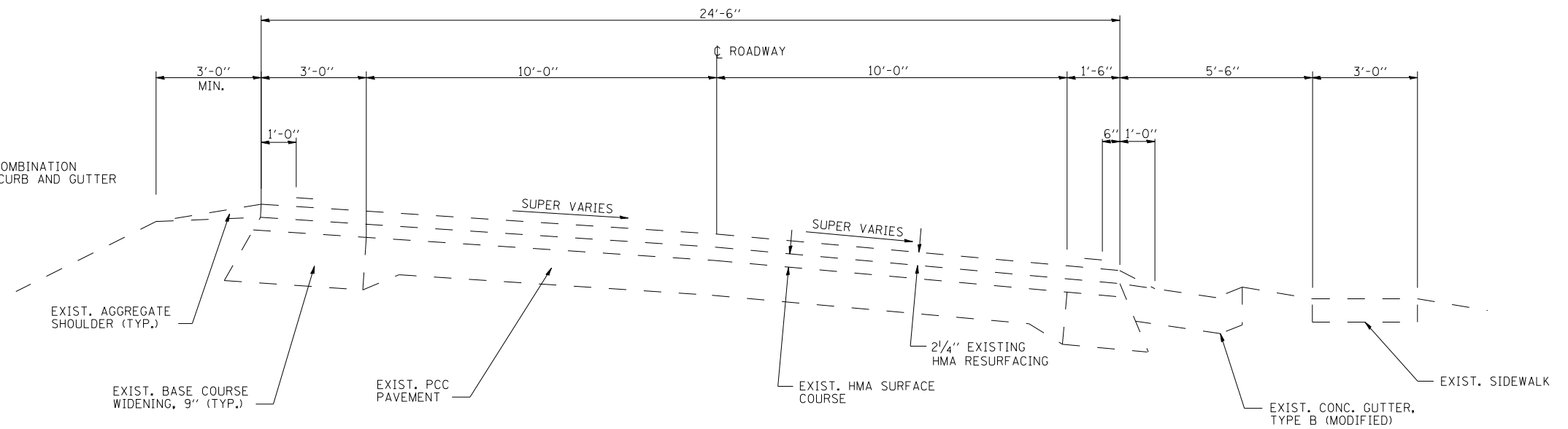
NOTE: CONCRETE CURB AND GUTTER CONTINUE TO APPROACH SLAB LIMITS (849+69.88)

FILE NAME = Y:\IDOT\933-12.74220\CLIENT\Final (111215)	USER NAME = RJT	DESIGNED - MTM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE. 332	SECTION (103B)B-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 7
		DRAWN - JJS	REVISED -		SCALE: NTS	SHEET NO. 3 OF 5 SHEETS	STA.	TO STA.	CONTRACT NO. 74220			
		CHECKED - MTM	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - SEPTEMBER 2011	REVISED -									

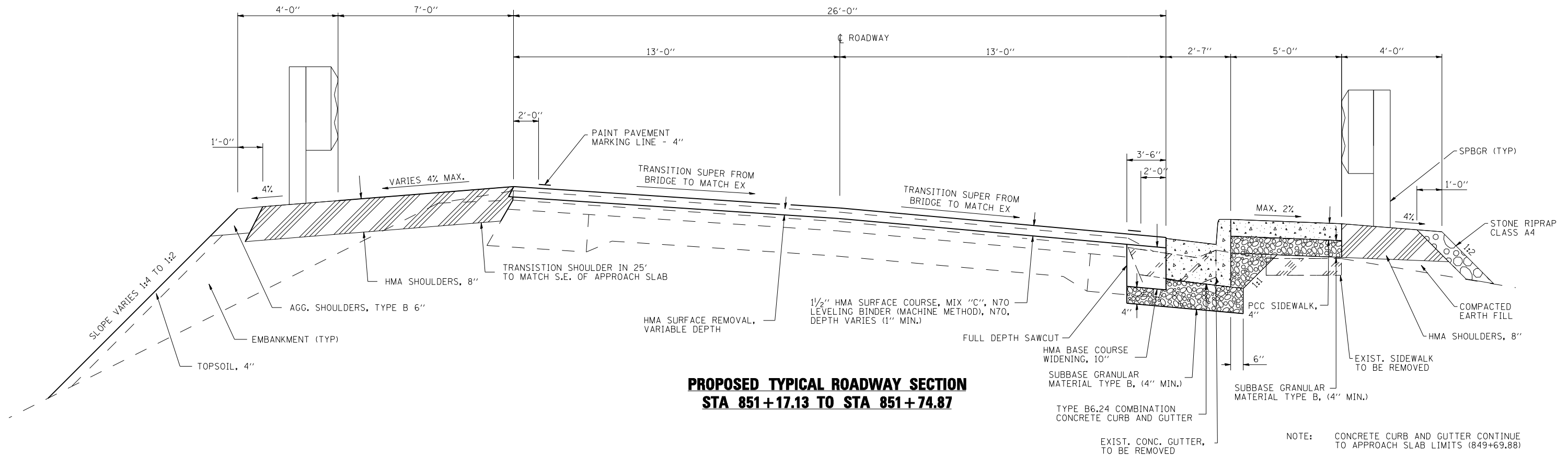




**TYPICAL OAK STREET GUARDRAIL**



**EXISTING TYPICAL ROADWAY SECTION EAST OF STRUCTURE**



**PROPOSED TYPICAL ROADWAY SECTION  
STA 851+17.13 TO STA 851+74.87**

NOTE: CONCRETE CURB AND GUTTER CONTINUE TO APPROACH SLAB LIMITS (849+69.88)

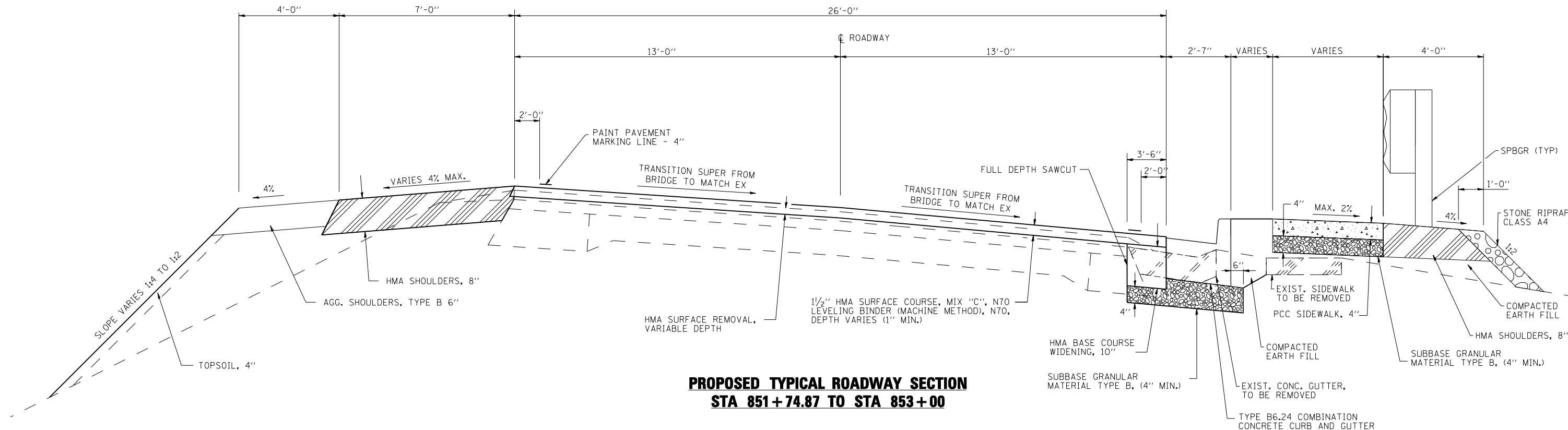
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	PLOT SCALE = 40.0000' / IN.	CHECKED - MTM	REVISED -
	PLOT DATE = 12/15/2011	DATE - SEPTEMBER 2011	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	8
CONTRACT NO. 74220				
ILLINOIS FED. AID PROJECT				



**PROPOSED TYPICAL ROADWAY SECTION  
STA 851+74.87 TO STA 853+00**

NOTE: ADJUST B6.24 CURB AND GUTTER TO MATCH EXISTING AT STA. 853+00.00

FILE NAME =	USER NAME = RJT	DESIGNED - MTM	REVISED -
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	PLOT SCALE = 40.0000' / IN.	CHECKED - MTM	REVISED -
	PLOT DATE = 12/15/2011	DATE - SEPTEMBER 2011	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	9
CONTRACT NO. 74220				
ILLINOIS FED. AID PROJECT				

STEEL PLATE BEAM GUARDRAIL SCHEDULE

LOCATION	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER-DIRECT APPLIED	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	GUARDRAIL MARKERS, TYPE A	GUARDRAIL MARKERS, TYPE B
	FOOT	EACH	EACH	EACH	FOOT	EACH	EACH
LT. STA. 849+20.03 TO STA. 849+57.53	37.5					2	
RT. STA. 848+58.74 TO STA. 849+46.24	87.5					2	
RT. STA. 851+34.22 TO STA. 851+71.72	37.5					1	
LT. STA. 10+14.36 TO STA. 10+64.00 (OAK ST.) ON BRIDGE	62.5					1	2
RT. STA. 849+46.24 TO STA. 849+94.85		1					
RT. STA. 850+86.16 TO STA. 851+34.22		1					
LT. STA. 849+57.53 TO STA. 850+02.74		1					
LT. STA. 850+78.26 TO STA. 851+23.85 (10+14.36)		1					
RT. STA. 848+08.74 TO STA. 848+58.74			1	1			
RT. STA. 851+71.72 TO STA. 852+21.72			1	1			
LT. STA. 848+70.03 TO STA. 849+20.03			1	1			
LT. STA. 10+55.64 TO STA. 11+14.00 (OAK ST.)			1	1			
LT. STA. 851+23.85 TO STA. 851+60.25					50		
TOTAL	225	4	4	4	50	6	2

SIDEWALK SCHEDULE

LOCATION	PCC SIDEWALK 4"	SIDEWALK REMOVAL
	SQ FT	SQ FT
RT. STA. 847+50.00 TO STA. 847+64.00	42	
RT. STA. 847+64.00 TO STA. 848+24.65	231	
RT. STA. 848+24.65 TO STA. 849+69.88	726	
RT. STA. 851+11.13 TO STA. 851+74.87	319	
RT. STA. 851+74.87 TO STA. 853+00.00	443	
RT. STA. 847+50.00 TO STA. 850+11.68		785
RT. STA. 850+52.24 TO STA. 853+00.00		743
TOTAL	1761	1528

CURB AND GUTTER SCHEDULE

LOCATION	COMBINATION CONC. CURB AND GUTTER, TYPE B-6.24	GUTTER REMOVAL	COMBINATION CONC. CURB AND GUTTER OUTLET (SPECIAL)
	FOOT	FOOT	EACH
RT. STA. 848+18.34 TO STA. 849+69.88	144		
RT. STA. 851+11.13 TO STA. 853+00.00	181		
RT. STA. 851+00.00 TO STA. 853+00.00		200	
RT. STA. 847+92.16			1
TOTAL	325	200	1

PAVEMENT REMOVAL SCHEDULE

LOCATION	HMA SURFACE REMOVAL, VARIABLE DEPTH	PAVEMENT REMOVAL	HMA SURFACE REMOVAL - BUTT JOINT
	SQ YD	SQ YD	SQ YD
STA. 847+80.00 TO STA. 849+63.88	501		
STA. 851+17.13 TO STA. 852+70.00	416		
OAK STREET			
STA. 10+13.21 TO STA. 10+54.00	423		
STA. 10+54.00 TO STA. 10+84.00			125
STA. 849+63.88 TO STA. 850+12.17		131	
STA. 850+51.83 TO STA. 851+17.13		178	
STA. 847+50.00 TO STA. 847+80.00			87
STA. 852+70.00 TO STA. 853+00.00			86
TOTAL	1340	309	298

DRAINAGE SCHEDULE

STRUCTURE NUMBER	LOCATION	STORM SEWER, CLASS A, TYPE 2		INLET, TYPE B, TYPE 3 FRAME AND GRATE	PRECAST REIN. CONC. FLARED END SECTIONS 15"	MANHOLES, TYPE A, 4' DIAM., TYPE 3 FRAME AND GRATE	MANHOLES, TYPE A, 4' DIAM., TYPE 1 FRAME, CLOSED LID	REMOVING INLETS	PIPE CULVERT, CLASS D, TYPE 2, 24"	METAL END SECTIONS 24"	PIPE CULVERT REMOVAL	PIPE DRAINS 4"	TRENCH BACKFILL	CONC. COLLAR	
		15"	24"												FOOT
A4 TO A3	RT. STA. 848+17.44 TO 848+67.90	47													
A3 TO 2	RT. STA. 848+67.90 TO 848+72.40	20													
A3 TO A2	RT. STA. 848+67.90 TO 849+18.30	47													
A2 TO A1	RT. STA. 849+18.30 TO 849+62.65	41													
B1 TO 3	RT. STA. 851+18.27 TO 850+93.62	33													
B1 TO B2	RT. STA. 851+18.27 TO 851+62.62	41													
B2 TO B3	RT. STA. 851+62.62 TO 852+13.01	47													
B3 TO B4	RT. STA. 852+13.01 TO 852+63.40	47													
	RT. STA. 851+01.55							1							
	RT. STA. 852+41.33							1							
	LT. 37.77', STA. 848+39.00								60						
	LT. 34.00', STA. 848+11.35									1					
	LT. 42.36' STA. 848+70.95									1					
	LT. 52.32' STA. 849+19.63										55				
	RT. 37.47' STA. 851+02.31										24				
	A1-A2, A2-A3, A3-A5												36		
	B1-B3, B3-B4, B4-B5												36		
	RT. STA. 851+39.00 STA. 851+67.00		35												
	RT. STA. 849+97.88											10			
	RT. STA. 850+83.13											16			
	RT. 35', STA. 851+63.60													1.7	
A1	RT. 15', STA. 849+62.65			1											
A2	RT. 15', STA. 849+18.30			1											
A3	RT. 15', STA. 848+67.90					1									
A4	RT. 15', STA. 848+17.44			1											
B1	RT. 15', STA. 851+18.27					1									
B2	RT. 15', STA. 851+62.62			1											
B3	RT. 15', STA. 852+13.01			1											
B4	RT. 15', STA. 852+63.40			1											
2	RT. 35', STA. 848+77.40					1									
C1	RT. 42', STA. 850+93.62					1									
	RT. 35.81', STA. 851+64.25								1						
TOTAL		323	35	6	2	2	1	2	60	2	79	26	72	1.7	

AGGREGATE SCHEDULE

LOCATION	SUBBASE GRANULAR MATERIAL, TYPE B	AGGREGATE SURFACE COURSE, TYPE B 6"
	TONS	SQ YD
RT. STA. 847+50.00 TO STA. 847+92.16	3	
RT. STA. 847+92.16 TO STA. 848+16.34	5	
RT. STA. 848+16.34 TO STA. 849+69.38	42	
RT. STA. 851+11.63 TO STA. 851+74.87	23	
RT. STA. 851+74.87 TO STA. 853+00.00	33	
LT. STA. 848+39.00		133
TOTAL	106	133

SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2 (SPECIAL)
	ACRE
LT. STA. 847+50.00 TO STA. 850+36.25	0.26
LT. STA. 850+61.43 TO STA. 851+70.66	0.05
LT. STA. 852+14.71 TO STA. 853+00.00	0.02
RT. STA. 847+50.00 TO STA. 849+89.21	0.03
RT. STA. 851+73.32 TO STA. 853+00.00	0.07
TOTAL	0.50

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		CHECKED - MTM	REVISED -
		DATE - SEPTEMBER 2011	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	10
CONTRACT NO. 74220				
ILLINOIS FED. AID PROJECT				

EROSION AND SEDIMENT CONTROL SCHEDULE								
LOCATION	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING (3 APPLICATIONS)	EROSION CONTROL BLANKET	TEMP. DITCH CHECK	INLET AND PIPE PROTECTION	AGGREGATE (EROSION CONTROL)	STONE RIPRAP, CLASS A4	FILTER FABRIC
	FOOT	POUNDS	SQ YD	FOOT	EACH	TON	SO YD	SO YD
LT. STA. 847+50.00 TO STA. 850+36.25		76	1225					
LT. STA. 850+61.43 TO STA. 851+70.66		15	239					
LT. STA. 852+14.71 TO STA. 853+00.00		5	82					
RT. STA. 847+50.00 TO STA. 849+89.21		10	162					
RT. STA. 851+73.32 TO STA. 853+00.00		20	321					
LT. 48', STA. 848+82.00				15				
LT. 53', STA. 849+15.00				15				
LT. 61', STA. 849+48.00				12				
LT. 65', STA. 849+81.00				15				
LT. 75', STA. 850+14.00				15				
LT. STA. 847+30.42 TO STA. 850+36.78	482							
LT. STA. 850+61.43 TO STA. 851+62.98	177							
LT. STA. 852+14.71 TO STA. 853+19.72	122							
RT. STA. 847+29.52 TO STA. 850+32.51	339							
RT. STA. 850+84.29 TO STA. 853+20.53	243							
RT. STA. 848+17.40					1			
RT. STA. 848+68.00					1			
RT. STA. 849+18.30					1			
RT. STA. 849+68.70					1			
RT. STA. 851+12.20					1			
RT. STA. 851+62.20					1			
RT. STA. 852+13.00					1			
RT. STA. 852+63.30					1			
LT. STA. 848+16.31					1			
RT. 47', STA. 850+17.00						7.0		
LT. 71', STA. 850+27.00						7.0		
RT. 63', STA. 850+68.00						20.0		
LT. 51', STA. 850+70.00						7.0		
RT. STA. 847+80.00 TO STA. 850+15.00							522	522
RT. STA. 850+70.00 TO STA. 851+80.00							816	816
AT BRIDGE							850	850
TOTAL	1363	126	2029	72	9	41	2188	2188

PAVING SCHEDULE							
LOCATION	LEVELING BINDER (MACHINE METHOD N70)	HMA SURFACE COURSE, MIX "C", N70	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	HMA BASE COURSE WIDENING 10"	HMA SHOULDERS, 8"	AGGREGATE SHOULDERS, TYPE B, 6"	BITUMINOUS MATERIALS (PRIME COAT)
	TON	TON	SO YD	SO YD	SO YD	SO YD	GALLON
STA. 847+50.00 TO STA. 849+63.88	35	52					62
STA. 851+17.13 TO STA. 853+00.00	30	44					53
OAK STREET							
STA. 10+13.21 TO STA. 10+84.00	30	45					54
STA. 849+63.88 TO STA. 849+69.88			28				
STA. 851+11.13 TO STA. 851+17.13			28				
RT. STA. 851+17.13 TO STA. 853+00.00				31			
LT. STA. 847+50.00 TO STA. 849+63.88					151		
LT. STA. 852+64.29 TO STA. 853+00.00					23		
RT. STA. 847+50.00 TO STA. 847+92.16					34		
LT. STA. 847+50.00 TO STA. 848+20.98						12	
LT. STA. 848+54.24 TO STA. 849+99.38						24	
LT. STA. 10+02.08 TO STA. 11+22.06						27	
UNDER GUARDRAIL							
RT. STA. 847+92.38 TO STA. 847+98.59					1		
RT. STA. 847+98.59 TO STA. 849+99.35					67		
LT. STA. 848+54.18 TO STA. 848+60.15					1		
LT. STA. 848+60.15 TO STA. 849+99.38					46		
RT. STA. 850+81.66 TO STA. 852+31.85					51		
RT. STA. 852+31.85 TO STA. 852+37.99					1		
LT. STA. 10+02.08 TO STA. 11+22.06					63		
TOTAL	95	141	56	31	437	63	169

PAVEMENT MARKING SCHEDULE							
LOCATION	LOCATION	DESCRIPTION	PAINT PAVEMENT MARKING LINE - 4"	THERMOPLASTIC PAVEMENT MARKING LINE - 24"	GROOVING FOR RECESSED PAVEMENT MARKING 25"	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)
			FOOT	FOOT	FOOT	EACH	EACH
STA. 847+50.00 TO STA. 853+00.00	C. L.	YELLOW SKIP DASH	138				
STA. 851+73.00 TO STA. 851+85.00	C. L.	YELLOW SKIP DASH	10				
STA. 847+50.00 TO STA. 851+17.13	LT. EDGE	WHITE SOLID	367				
STA. 852+54.69 TO STA. 853+00.00	LT. EDGE	WHITE SOLID	45				
STA. 847+50.00 TO STA. 853+00.00	RT. EDGE	WHITE SOLID	550				
STA. 851+71.00	STOP BAR	WHITE SOLID		23	23		
STA. 847+50.00 TO STA. 853+00.00	C. L.					6	
AT BRIDGE	C. L.						1
TOTAL			1110	23	23	6	1

EARTHWORK SCHEDULE				
LOCATION	EARTH EX. (CUT)	EARTH EX. ADJ. FOR SHRINKAGE	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
STA 847+50.00 TO STA 848+00.00	16	12	21	-9
STA 848+00.00 TO STA 848+39.00	12	9	149	-140
STA 848+39.00 TO STA 849+00.00	24	18	227	-209
STA 849+00.00 TO STA 849+26.00	88	66	11	55
STA 849+26.00 TO STA 849+50.00	79	59	9	50
STA 849+50.00 TO STA 849+99.38	21	16	36	-20
STA 849+99.38 TO STA 850+12.17	95	70	6	64
STA 850+12.17 TO STA 850+14.17	0	0	1043	-1043
STA 850+14.17 TO STA 850+51.83	914	686	0	686
STA 850+51.83 TO STA 850+81.63	485	364	11	353
STA 850+81.63 TO STA 851+00.00	27	20	13	7.25
STA 851+00.00 TO STA 851+36.44	57	42	172	-129
STA 851+36.44 TO STA 851+50.00	12	9	151	-142
STA 851+50.00 TO STA 851+70.65	6	5	86	-82
STA 851+70.65 TO STA 852+00.00	9	7	35	-28
STA 852+00.00 TO STA 852+50.00	10	8	9	-2
STA 852+50.00 TO STA 853+00.00	16	12	3	9
TOTAL	1871	1403	1982	-579

USED 25% SHRINKAGE

TREE REMOVAL SCHEDULE				
STATION	OFFSET FEET	TREE REMOVAL ( 6 TO 15 UNITS DIAMETER) UNIT	TREE REMOVAL ( OVER 15 UNITS DIAMETER) UNIT	COMMENTS
848+25	45	10		
848+70	39	14		
848+80	41		17	
848+95	48.5	13		
848+97	48.5	8		
848+98	52	12		
848+99	43	8		5 FT TALL STUMP
849+03	44.5	10		
849+05	42	6		
849+05	55.5	11		
849+35	60	12		
849+35	58.5	9		
849+51	67	7		
849+52	63	7		
849+57	65	6		
849+59	52	7		
849+63	65	6		
849+65	58	10		
849+70	52.5	6		
849+70	64.5	7		
849+70	67.5	6		
849+69	68	7		
849+70	37		36	
849+87	67.5		32	
849+87	70		25	
850+04	73	7		
850+16	68	14		
850+27	64		18	
850+33	70	14		
850+60	82		31	
	64		20	LAYING IN STREAM
TOTALS		217	179	

FILE NAME =	USER NAME = steffenmk	DESIGNED - MTM	REVISED -
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	PLOT SCALE = 100.0000' / 1in.	CHECKED - MTM	REVISED -
	PLOT DATE = 10/17/2013	DATE - SEPTEMBER 2011	REVISED -

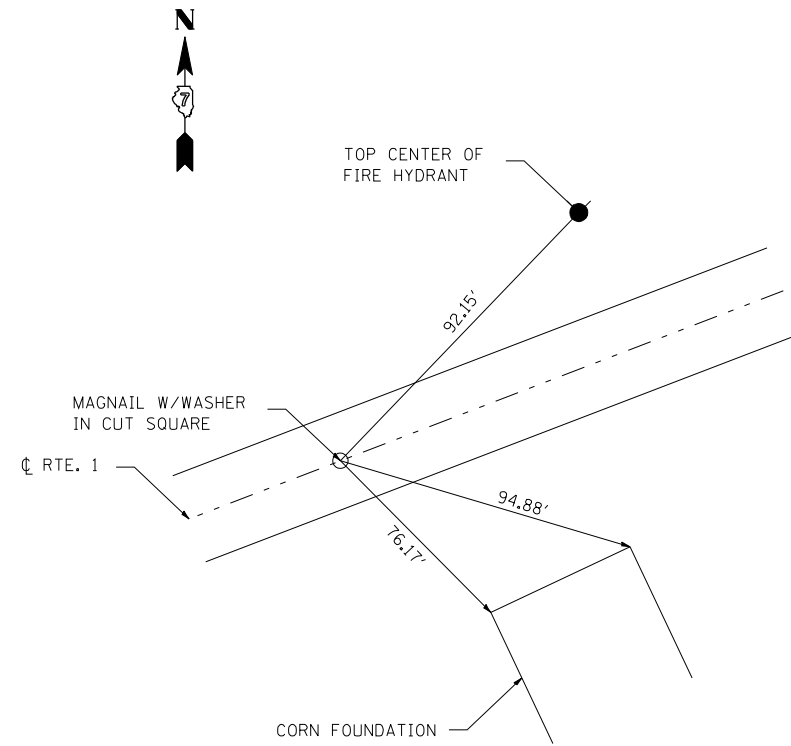
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

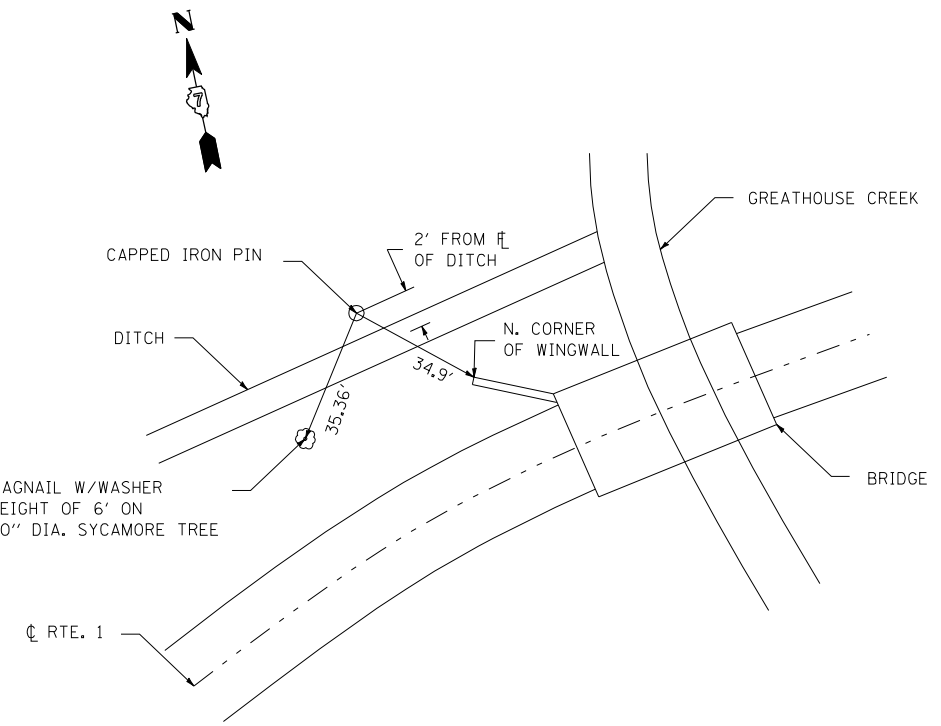
SCALE: N.T.S.      SHEET NO. 2 OF 2 SHEETS      STA.      TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)-1	WABASH	53	11A
<b>CONTRACT NO. 74220</b>				
ILLINOIS FED. AID PROJECT				

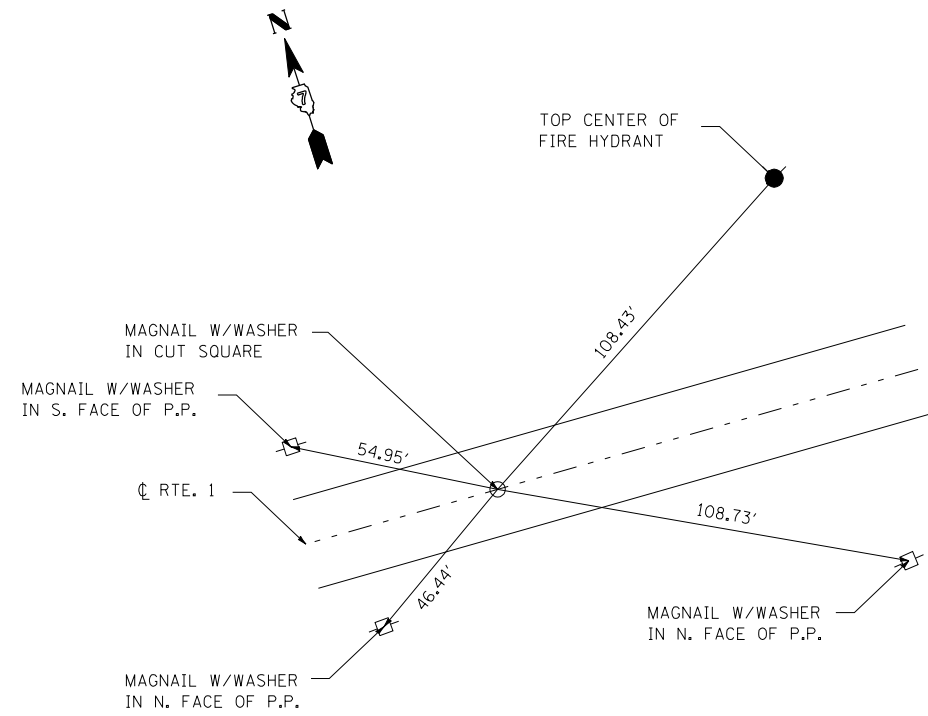




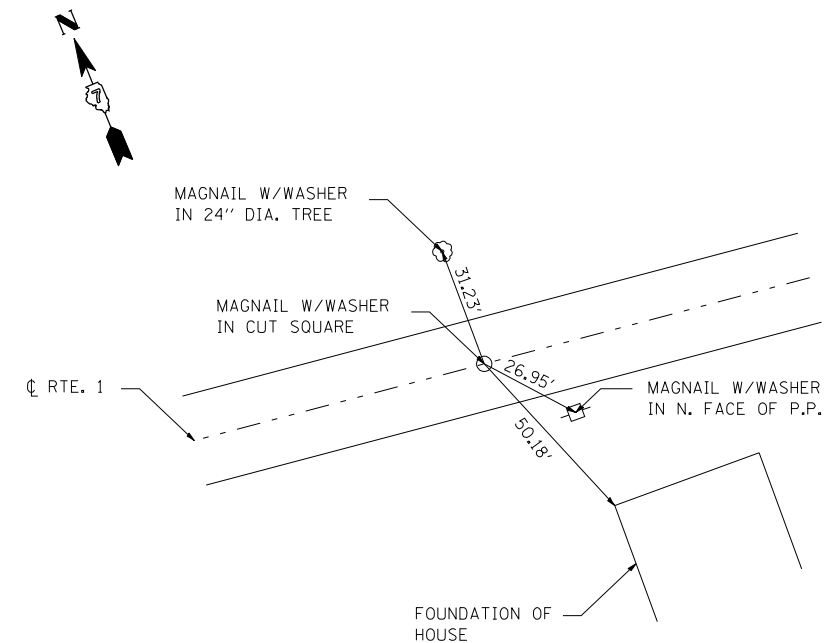
P.C. STA 844+87.55



P.I. STA 849+93.30



P.T. STA. 854+76.45



P.O.T. STA 857+00.00

FILE NAME =	USER NAME = RJT	DESIGNED - MTM	REVISED -
Y:\IDOT\933-12.74220\CLIENT\Final (111215)	CADD\Highway\CADD Sheets\0774220-sht-ATB.dwg	DRAWN - JJS	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED - MTM	REVISED -
	PLOT DATE = 12/15/2011	DATE - SEPTEMBER 2011	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT TIES**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

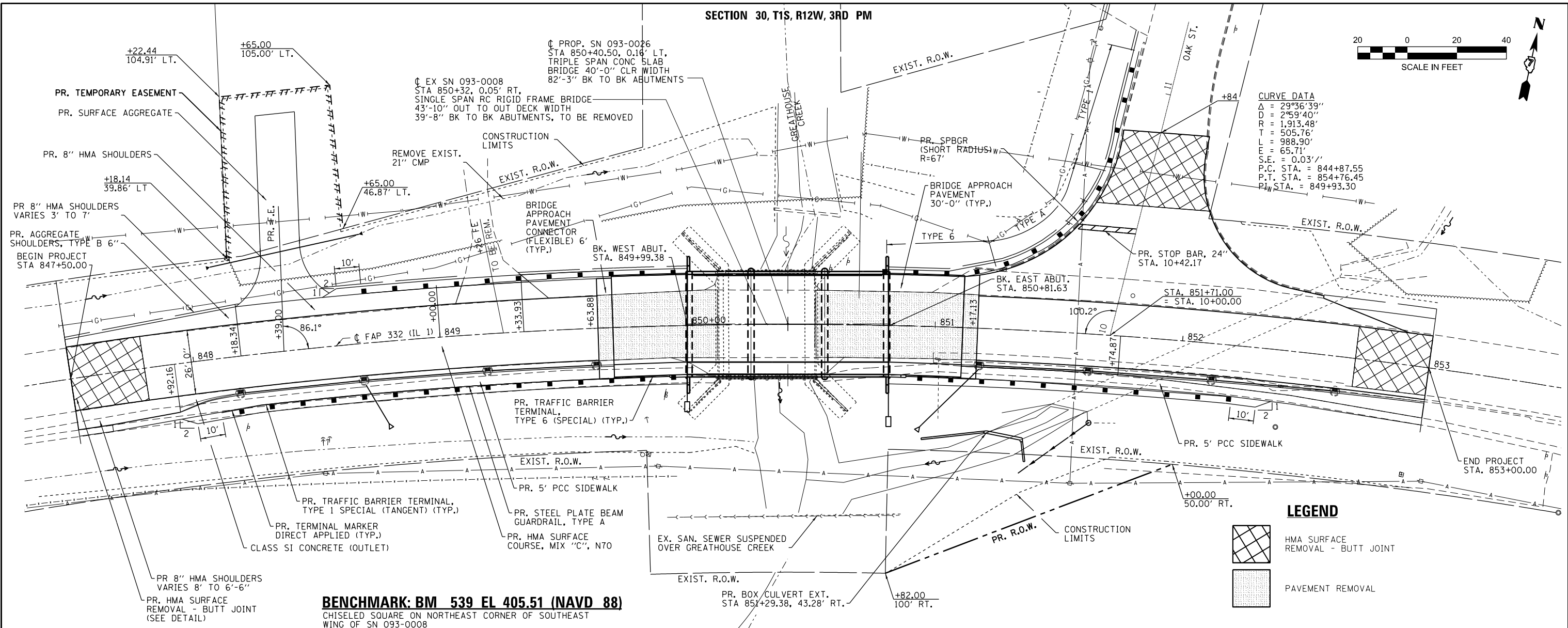
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	12
CONTRACT NO. 74220			ILLINOIS FED. AID PROJECT	



DATE	
BY	
REVISIONS	
NO.	
PLAN	
NO.	
NOTE BOOK	
NO.	
CHECKED	
DATE	
FILE NAME	

DATE	
BY	
REVISIONS	
NO.	
PROFILE	
NO.	
NOTE BOOK	
NO.	
CHECKED	
DATE	
FILE NAME	

SECTION 30, T1S, R12W, 3RD PM



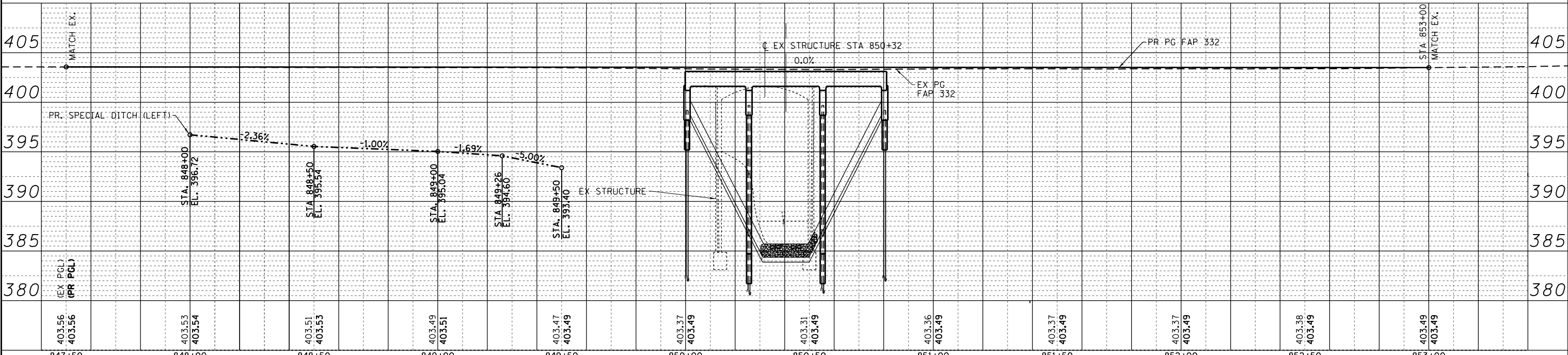
**CURVE DATA**

Δ	= 29°36'39"
D	= 2°59'40"
R	= 1,913.48'
T	= 505.76'
L	= 988.90'
E	= 65.71'
S.E.	= 0.03'/'
P.C. STA.	= 844+87.55
P.T. STA.	= 854+76.45
P.W. STA.	= 849+93.30

**BENCHMARK: BM 539 EL 405.51 (NAVD 88)**  
 CHISELED SQUARE ON NORTHEAST CORNER OF SOUTHEAST WING OF SN 093-0008

**LEGEND**

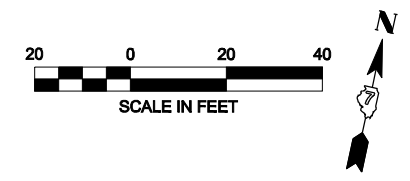
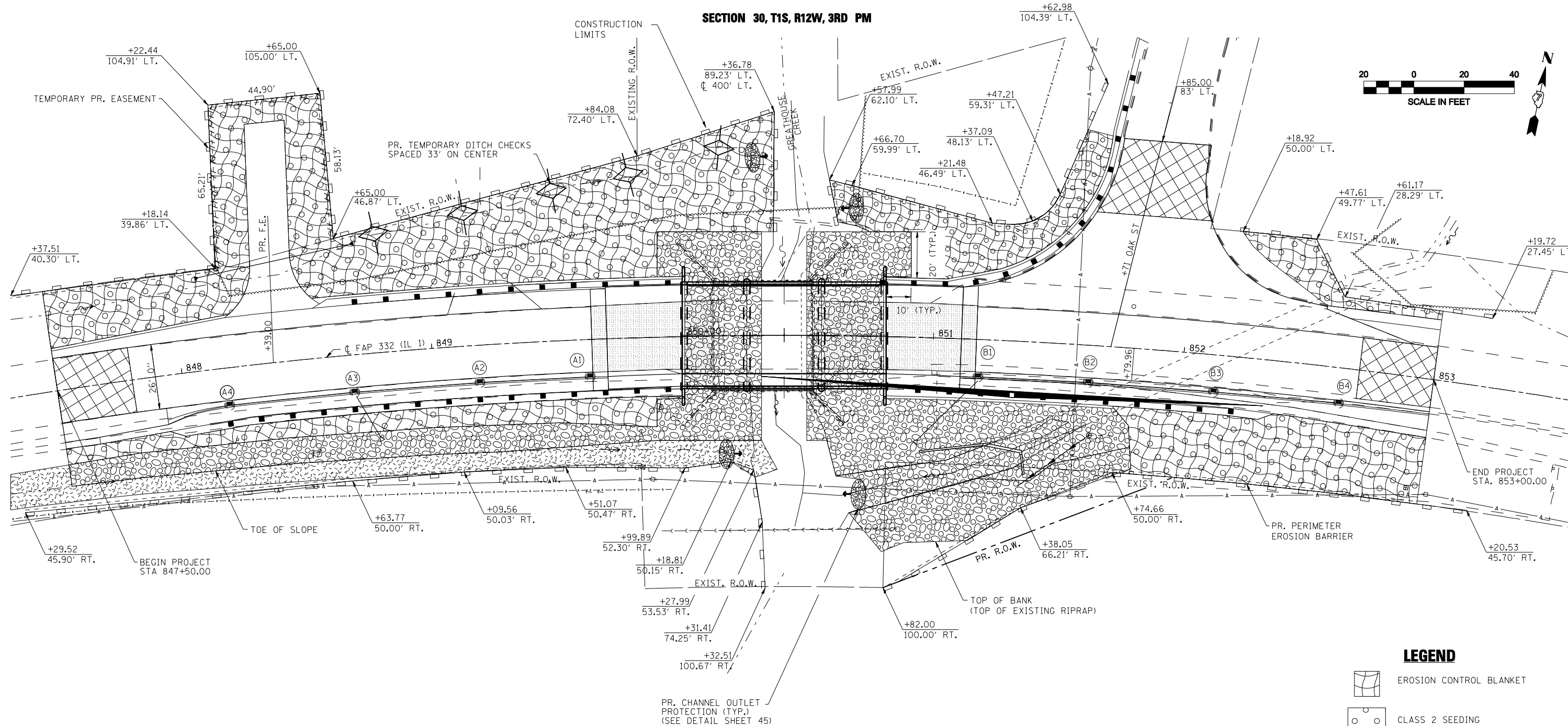
	HMA SURFACE REMOVAL - BUTT JOINT
	PAVEMENT REMOVAL







FILE NAME =	USER NAME = steffennk	DESIGNED - MTM	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> SCALE: 1"=20'-0" SHEET NO. 1 OF 1 SHEETS STA. 848+00 TO STA. 853+50	F.A.P. RTE. 332	SECTION (103B)B-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 13	
SCALE: (HORIZ) 1"=20' (VERT) 1"=5'	PLOT DATE = 10/22/2013 10:14:25 AM	DATE - SEPTEMBER 2011	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 74220			



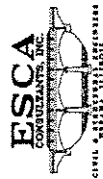
SECTION 30, T1S, R12W, 3RD PM



**LEGEND**

-  EROSION CONTROL BLANKET
-  CLASS 2 SEEDING
-  PROPOSED RIPRAP
-  EXISTING RIPRAP

FILE NAME = D774220-sht-eros.dgn	USER NAME = mmann	DESIGNED - MTM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION AND SEDIMENT CONTROL PLAN</b>			F.A. RTE. 332	SECTION (1038)8-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 15
	PLOT SCALE = 40.0000' / in.	CHECKED - MTM	REVISED -		SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 74220				
PLOT DATE = 4/5/2011	DATE - SEPTEMBER 2011	REVISED -	REVISED -				ILLINOIS FED. AID PROJECT					



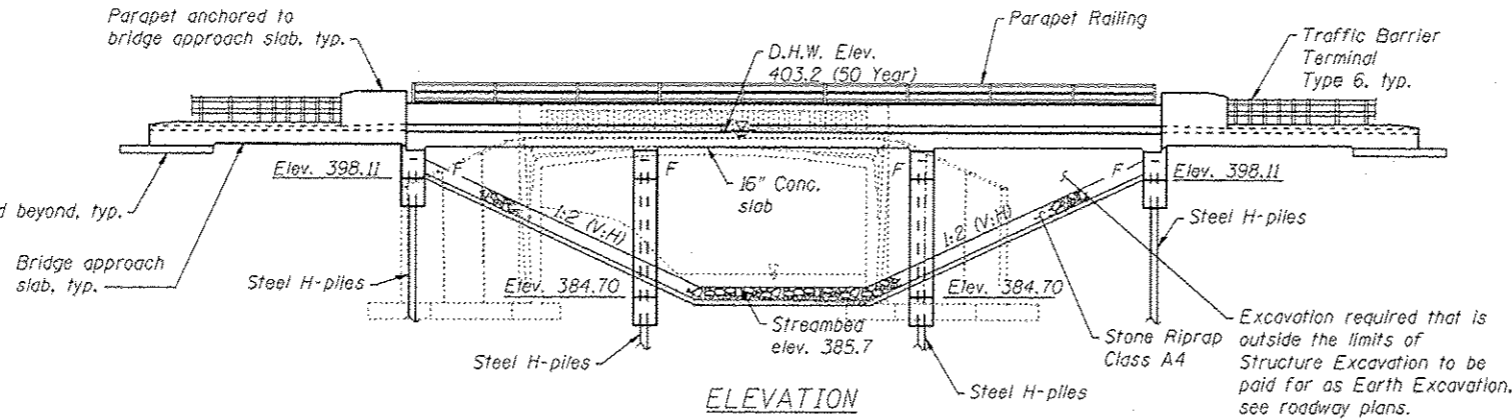
BENCHMARK: BM 539 - Chiseled square on northeast corner of southeast wing of SN 093-0008, Elev. 405.51 (NAVD 88)

EXISTING STRUCTURE:  
SN 093-0008 was originally built as SBI 138, Section 103B, in 1935. It is a single span reinforced conc. rigid frame structure with closed abutments on untreated timber piles. The deck width is 43'-10" and the length is 35'-0" face to face of abutments. The structure was constructed with no skew and a 0.043 ft/ft superelevation. Traffic is to be detoured.

No salvage.

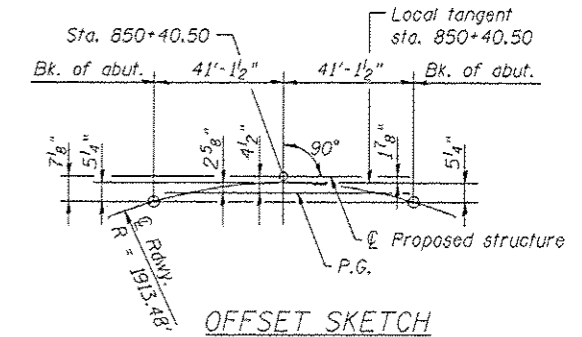
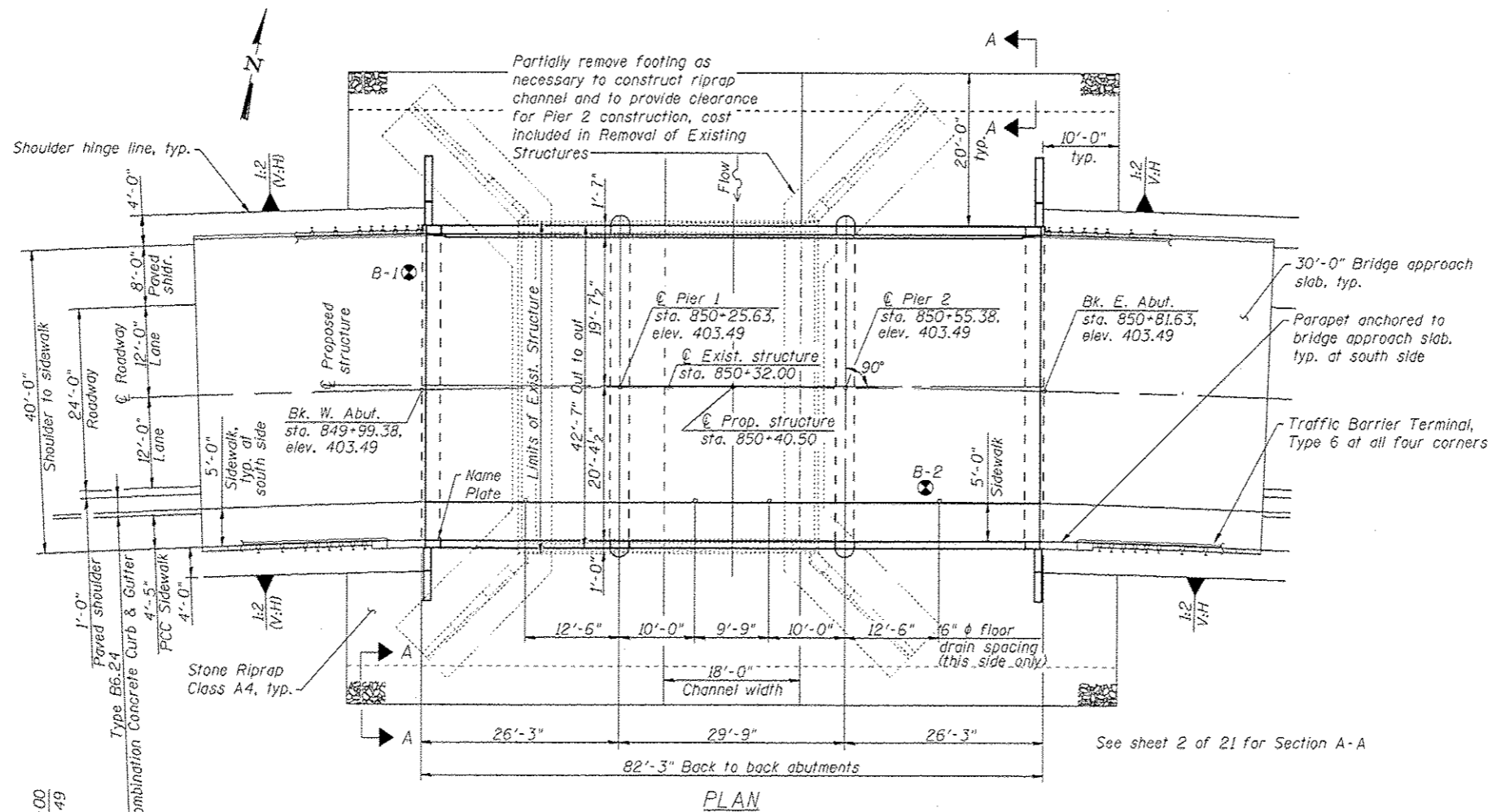
**Curve Data**

$\Delta = 29^{\circ}36'39"$   
 $D = 2^{\circ}59'40"$   
 $R = 1,913.48'$   
 $T = 505.76'$   
 $L = 988.90'$   
 $E = 65.71'$   
 $S.E. = 0.031'$   
 $P.C. Sta. = 844+87.55$   
 $P.T. Sta. = 854+76.45$   
 $P.I. Sta. = 849+93.30$



**STRUCTURE INDEX OF SHEETS**

General Plan & Elevation	Sheet No. 1 of 21
General Data	Sheet No. 2 of 21
Top of Slab Elevations	Sheet No. 3 of 21
Top of West Approach Slab Elevations	Sheet No. 4 of 21
Top of East Approach Slab Elevations	Sheet No. 5 of 21
Superstructure	Sheet No. 6 of 21
Superstructure Details	Sheet Nos. 7, 8 & 9 of 21
Bridge Approach Slab Details	Sheet Nos. 10 & 11 of 21
West Abutment	Sheet No. 12 of 21
East Abutment	Sheet No. 13 of 21
Piers	Sheet No. 14 of 21
Parapet Railing	Sheet No. 15 of 21
Bar Splicer Assembly and Mechanical Splicer Details	Sheet No. 16 of 21
HP Pile Details	Sheet No. 17 of 21
Boring Logs	Sheet Nos. 18, 19, 20 & 21 of 21



STATION 850+40.50  
 BUILT 2011 BY  
 STATE OF ILLINOIS  
 F.A.P. RT. 332 SEC. (103B)B-1  
 LOADING HL-93  
 STR. NO. 093-0026

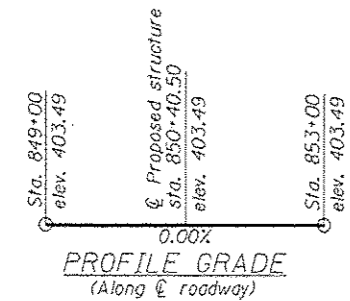
**NAME PLATE**  
 See Std. 515001

**APPROVED**  
 For Structural Adequacy Only  
*Carl Kopylov*  
 Engineer of Bridges & Structures



EXPIRES 11-30-11

*Elmer*  
 SIGNATURE  
 01/14/11  
 DATE



**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (FT.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	398.11	381.7	381.7	398.11

**WATERWAY INFORMATION**

Drainage Area = 7.6 Sq. Mi. Exist. Low Grade Elev. = 403.77 Ft. @ Sta. 850+54  
 Prop. Low Grade Elev. = 404.09 Ft. @ Sta. 850+90

Flood Yr.	Freq. C.F.S.	Opening - Sq. Ft.		Nat. Head - Ft.		Headwater El.	
		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Overtop.	45	2340	416	-	403.1	0.7	403.8
Design	50	2440	416	691	403.2	0.7	403.9
Base	100	2860	416	691	403.5	0.7	404.2
Overtop.	150	2960	-	691	403.6	-	403.8
Max. Calc.	500	3910	416	691	404.5	0.4	404.9

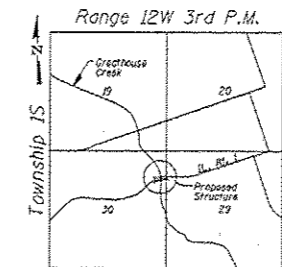
**DESIGN SPECIFICATIONS**  
 2007 AASHTO LRFD with 2008 & 2009 Interims

**LOADING HL-93**  
 Allow 50 psf for future wearing surface.

**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinf.)

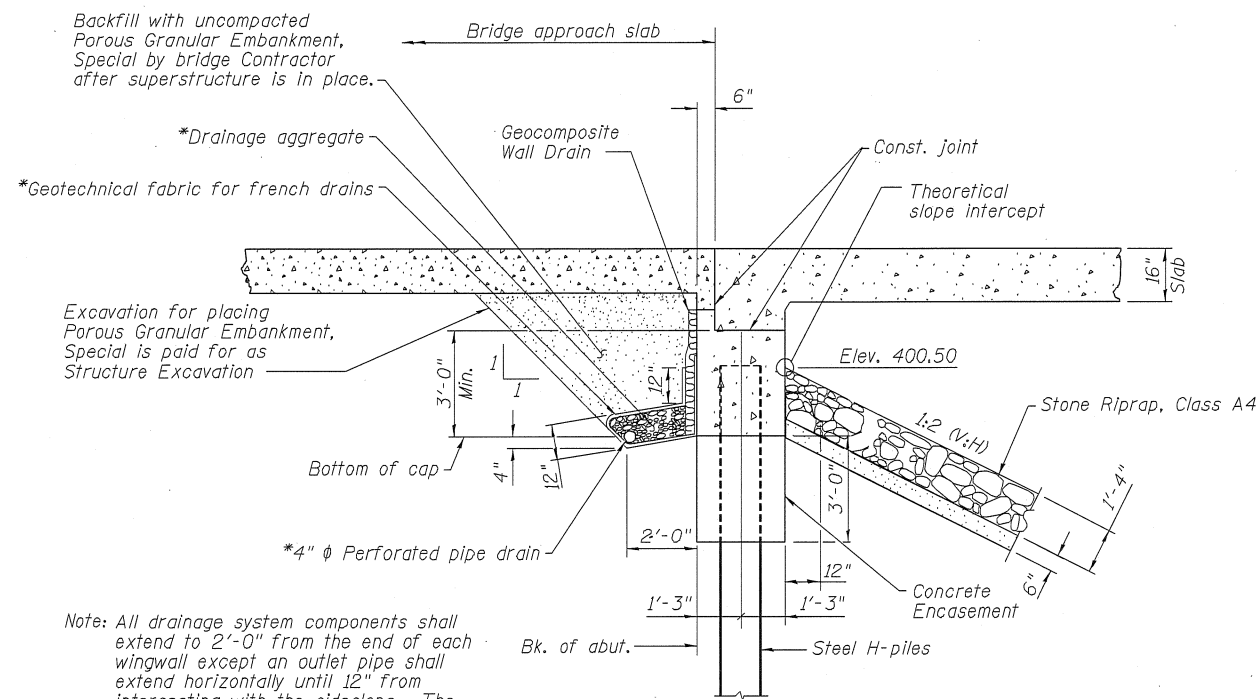
**SEISMIC DATA**  
 Seismic Performance Zone (SPZ) = 2  
 Design Spectral Acceleration of 1.0 sec (SD1) = 0.253g  
 Design Spectral Acceleration of 0.2 sec (Sps) = 0.596g  
 Soil Site Class = D



**GENERAL PLAN & ELEVATION**  
**IL 1 OVER GREATHOUSE CREEK**  
 FAP ROUTE 332 - SECTION (103B)B-1  
 WABASH COUNTY  
 STATION 850+40.50  
 STRUCTURE NO. 093-0026

FILE NAME = 8938826-74228-01-GenPlan.dgn	USER NAME = RJT	DESIGNED - ELH 09/10	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	F.A.P. RTE. 332	SECTION (103B)B-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 16
	ESCA JOB NO. 933.12	CHECKED - MJW/RDP 09/10	REVISED -		CONTRACT NO. 74220				
	PLOT SCALE = 0.1" = 1' IN.	DRAWN - DWH/KAH 08/11	REVISED -		ILLINOIS/FED. AID PROJECT				
	PLOT DATE = 12/15/2011 1:23:23 PM	CHECKED - ELH 08/11	REVISED -						

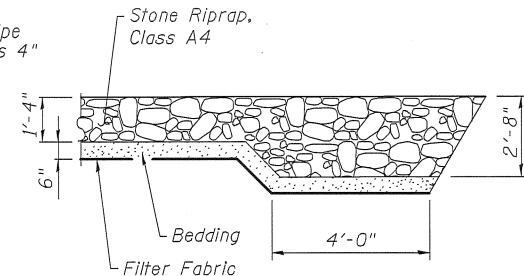




**SECTION THRU ABUTMENT**

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend horizontally until 12" from intersecting with the sideslope. The pipe shall then be run down the slope to the toe of slope and drain into conc. headwalls (See Article 601.05 of the Std. Spec's. and Hwy. Std. 601101). The horizontal pipe will be paid for as Pipe Underdrains for Structures 4", and the sloped pipe will be paid for as Pipe Drains 4", see roadway plans.

\*Included in the cost of Pipe Underdrains for Structures 4"



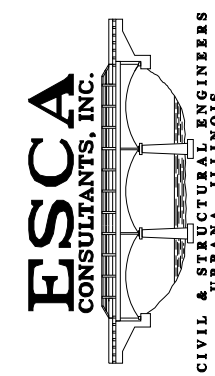
**SECTION A-A**

**GENERAL NOTES**

1. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach pavement.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. The existing reinforced concrete structure is a rigid frame and may require a sequenced plan to prevent collapse during removal. Temporary bracing or excavating behind the existing abutments during the removal of the existing superstructure and substructure may be necessary. Cost included with Removal of Existing Structures.
5. If a portion of the concrete encasement is underwater, reinforcement may be placed underwater into forms. Concrete may be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
6. The Contractor is advised that the existing reinforced concrete rigid frame structure is in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition when developing procedures for removal and replacement of the structure.
7. Slipforming of the parapets is not allowed.
8. The profile grade line follows the centerline of roadway outside of the limits of the proposed structure. Between the backs of abutments, the profile grade line shifts to a line that splits the distance between a tangent line to the centerline of roadway at Sta. 850+40.50 and a line connecting the intersections of the backs of abutments with the centerline of roadway. The intent of this project is to build a straight structure that is flat if sliced longitudinally along any line parallel to the centerline of proposed structure. The bridge approach slabs can then be constructed to match the bridge slab elevations.
9. Cofferdam design details shall be submitted to the Engineer for approval with the cofferdam design. See Special Provision.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		850	850
Filter Fabric	Sq. Yd.		850	850
Removal of Existing Structures	Each	0.5	0.5	1
Structure Excavation	Cu. Yd.		148	148
Floor Drains	Each	4		4
Concrete Structures	Cu. Yd.		200.9	200.9
Concrete Superstructure	Cu. Yd.	337.4		337.4
Bridge Deck Grooving	Sq. Yd.	522		522
Concrete Encasement	Cu. Yd.		18.6	18.6
Protective Coat	Sq. Yd.	730		730
Reinforcement Bars, Epoxy Coated	Pound	69000	18360	87360
Parapet Railing	Foot	81		81
Furnishing Steel Piles HP14x73	Foot		2128	2128
Driving Piles	Foot		2128	2128
Test Pile Steel HP14x73	Each		4	4
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		50	50
Pipe Underdrains for Structures 4"	Foot		144	144
Porous Granular Embankment, Special	Cu. Yd.		68	68
Cofferdam (Type 2) (Location-1)	Each		1	1
Cofferdam (Type 2) (Location-2)	Each		1	1
Mechanical Splicers	Each		56	56
Cofferdam Excavation	Cu. Yd.		98	98



**INSIDE FACE OF NORTH PARAPET**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Slab	850+00.30	-20.21	404.09	404.09
☉ W. Abut.	850+01.05	-20.20	404.09	404.09
a	850+10.94	-20.01	404.09	404.10
b	850+20.83	-19.88	404.09	404.09
☉ Pier 1	850+25.78	-19.84	404.09	404.09
c	850+35.68	-19.79	404.09	404.09
d	850+45.58	-19.79	404.09	404.09
☉ Pier 2	850+55.23	-19.84	404.09	404.09
e	850+65.12	-19.94	404.09	404.09
f	850+75.02	-20.10	404.09	404.10
☉ E. Abut.	850+79.96	-20.20	404.09	404.09
E. End of Slab	850+80.71	-20.21	404.09	404.09

**NORTH EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Slab	850+00.13	-12.00	403.84	403.84
☉ W. Abut.	850+00.88	-12.00	403.84	403.84
a	850+10.82	-12.00	403.85	403.86
b	850+20.75	-12.00	403.85	403.85
☉ Pier 1	850+25.72	-12.00	403.85	403.85
c	850+35.66	-12.00	403.86	403.86
d	850+45.60	-12.00	403.86	403.86
☉ Pier 2	850+55.29	-12.00	403.85	403.85
e	850+65.23	-12.00	403.85	403.85
f	850+75.16	-12.00	403.85	403.86
☉ E. Abut.	850+80.13	-12.00	403.84	403.84
E. End of Slab	850+80.88	-12.00	403.84	403.84

**PROFILE GRADE**

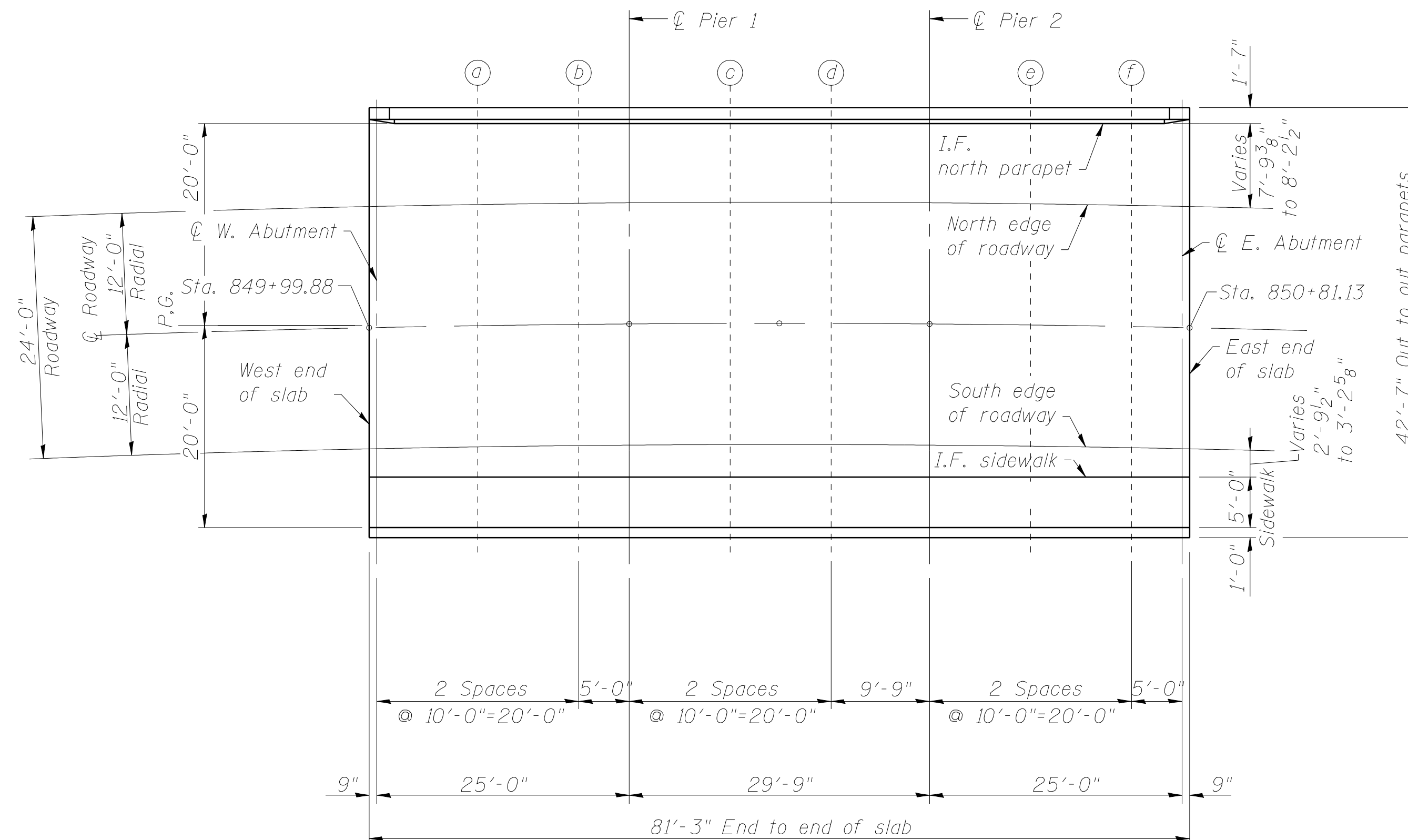
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Slab	849+99.88	-0.21	403.49	403.49
☉ W. Abut.	850+00.63	-0.20	403.49	403.49
a	850+10.63	-0.01	403.49	403.50
b	850+20.63	0.12	403.49	403.49
☉ Pier 1	850+25.63	0.16	403.49	403.49
c	850+35.63	0.21	403.49	403.49
d	850+45.63	0.21	403.49	403.49
☉ Pier 2	850+55.38	0.16	403.49	403.49
e	850+65.38	0.06	403.49	403.49
f	850+75.38	-0.10	403.49	403.50
☉ E. Abut.	850+80.38	-0.20	403.49	403.49
E. End of Slab	850+81.13	-0.21	403.49	403.49

**SOUTH EDGE OF ROADWAY**

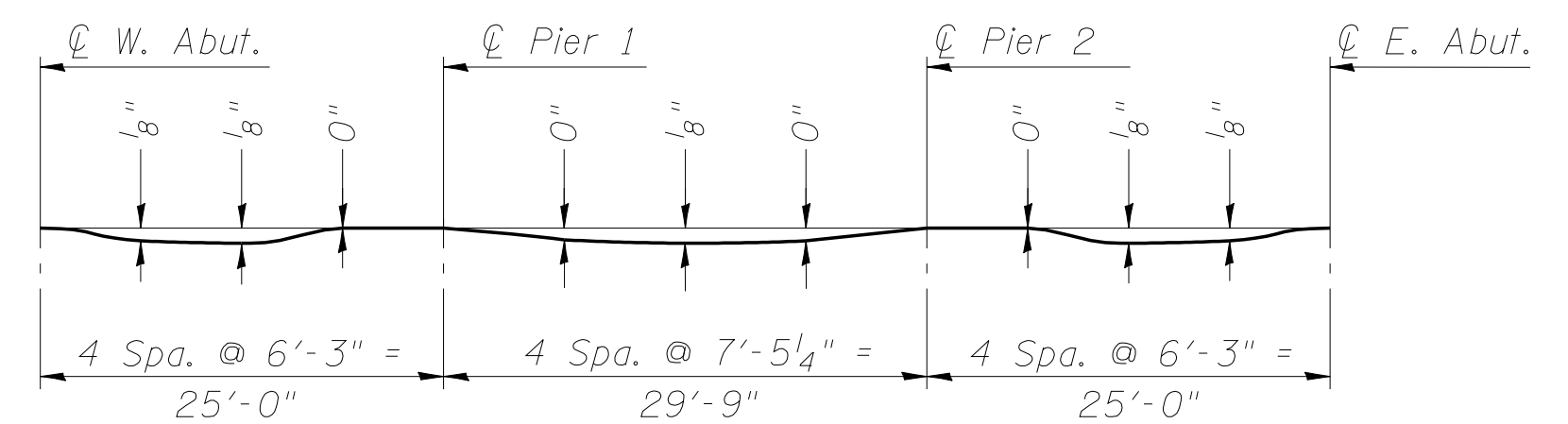
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Slab	849+99.62	12.00	403.12	403.12
☉ W. Abut.	850+00.38	12.00	403.12	403.12
a	850+10.44	12.00	403.13	403.14
b	850+20.51	12.00	403.13	403.13
☉ Pier 1	850+25.54	12.00	403.13	403.13
c	850+35.60	12.00	403.14	403.14
d	850+45.66	12.00	403.14	403.14
☉ Pier 2	850+55.47	12.00	403.13	403.13
e	850+65.54	12.00	403.13	403.13
f	850+75.60	12.00	403.13	403.14
☉ E. Abut.	850+80.63	12.00	403.12	403.12
E. End of Slab	850+81.39	12.00	403.12	403.12

**INSIDE FACE OF SIDEWALK**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Slab	849+99.56	19.79	403.04	403.04
☉ W. Abut.	850+00.32	19.80	403.04	403.04
a	850+10.39	19.99	403.04	403.05
b	850+20.47	20.12	403.04	403.04
☉ Pier 1	850+25.51	20.16	403.04	403.04
c	850+35.59	20.21	403.04	403.04
d	850+45.67	20.21	403.04	403.04
☉ Pier 2	850+55.50	20.16	403.04	403.04
e	850+65.58	20.06	403.04	403.04
f	850+75.65	19.90	403.04	403.05
☉ E. Abut.	850+80.69	19.80	403.04	403.04
E. End of Slab	850+81.45	19.79	403.04	403.04

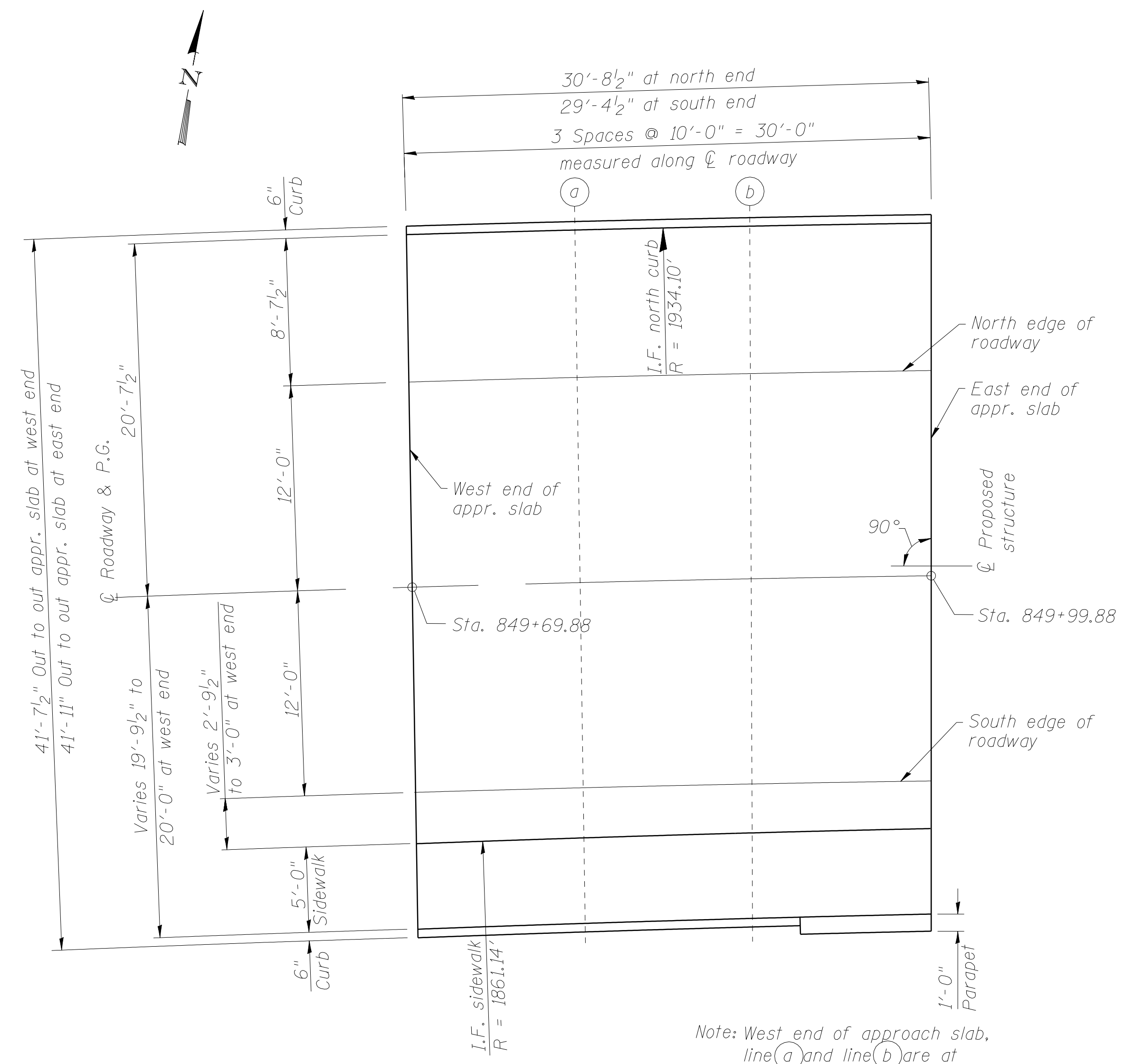


**PLAN**



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 as shown on this sheet.

**DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete only)



Note: West end of approach slab, line (a) and line (b) are at right angles to local tangent along  $\text{\textcircled{C}}$  roadway

**PLAN**

**INSIDE FACE OF NORTH CURB**

Location	Station	Offset	Theoretical Grade Elevations
W. end appr. slab	849+69.88	-20.63	404.11
a	849+79.88	-20.63	404.11
b	849+89.88	-20.63	404.11
E. end appr. slab	850+00.30	-20.63	404.11

**SOUTH EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations
W. end appr. slab	849+69.88	12.00	403.13
a	849+79.88	12.00	403.13
b	849+89.88	12.00	403.13
E. end appr. slab	849+99.62	12.00	403.13

**NORTH EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations
W. end appr. slab	849+69.88	-12.00	403.85
a	849+79.88	-12.00	403.85
b	849+89.88	-12.00	403.85
E. end appr. slab	850+00.13	-12.00	403.85

**INSIDE FACE OF SIDEWALK**

Location	Station	Offset	Theoretical Grade Elevations
W. end appr. slab	849+69.88	15.00	403.04
a	849+79.88	14.93	403.04
b	849+89.88	14.86	403.04
E. end appr. slab	849+99.56	14.79	403.05

**$\text{\textcircled{C}}$  ROADWAY & PROFILE GRADE**

Location	Station	Offset	Theoretical Grade Elevations
W. end appr. slab	849+69.88	0.00	403.49
a	849+79.88	0.00	403.49
b	849+89.88	0.00	403.49
E. end appr. slab	849+99.88	0.00	403.49

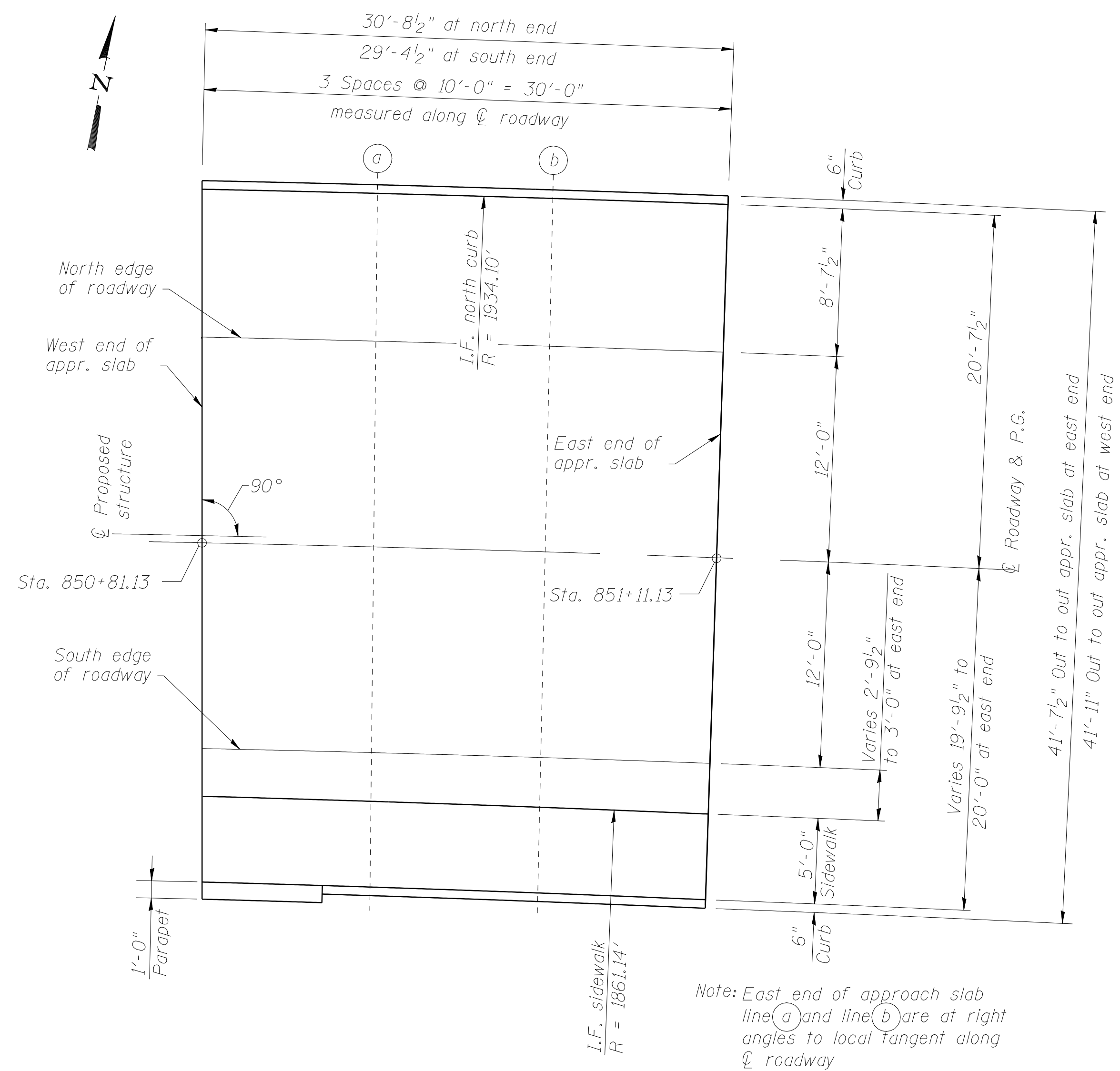
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	PLOT DATE = 12/15/2011 1:26:23 PM	CHECKED - ELH 08/11	REVISD -

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

**TOP OF WEST APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 093-0026**

SHEET NO. 4 OF 21 SHEETS

F.A.P. RTE. 332	SECTION (103B)B-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 19
CONTRACT NO. 74220			ILLINOIS FED. AID PROJECT	



PLAN

INSIDE FACE OF NORTH CURB

Location	Station	Offset	Theoretical Grade Elevations
W. end appr. slab	850+80.71	-20.63	404.11
a	850+91.13	-20.63	404.11
b	851+01.13	-20.63	404.11
E. end appr. slab	851+11.13	-20.63	404.11

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. end appr. slab	850+81.39	12.00	403.13
a	850+91.13	12.00	403.13
b	851+01.13	12.00	403.13
E. end appr. slab	851+11.13	12.00	403.13

NORTH EDGE OF ROADWAY

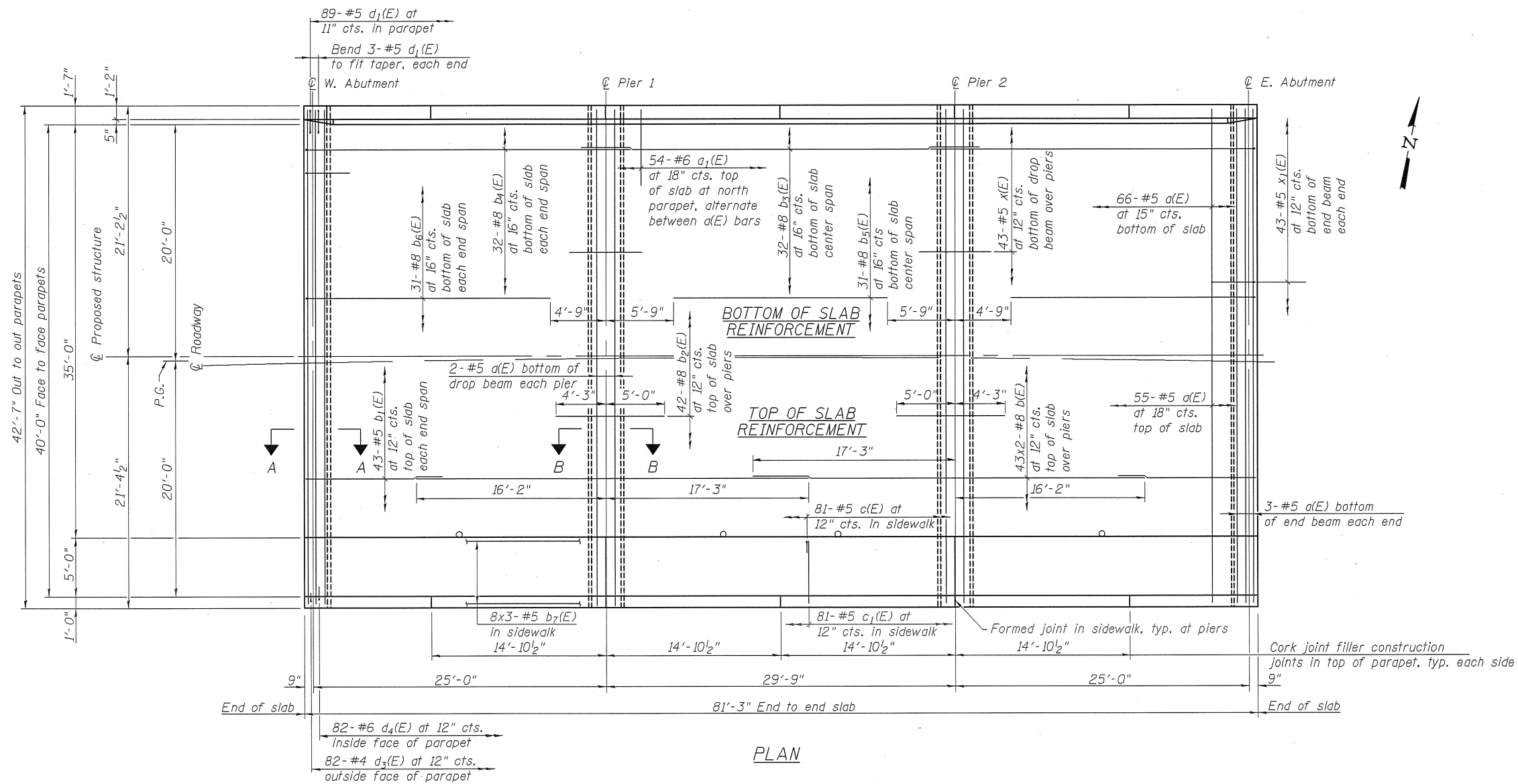
Location	Station	Offset	Theoretical Grade Elevations
W. end appr. slab	850+80.88	-12.00	403.85
a	850+91.13	-12.00	403.85
b	851+01.13	-12.00	403.85
E. end appr. slab	851+11.13	-12.00	403.85

INSIDE FACE OF SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
W. end appr. slab	850+81.45	14.79	403.05
a	850+91.13	14.86	403.04
b	851+01.13	14.93	403.04
E. end appr. slab	851+11.13	15.00	403.04

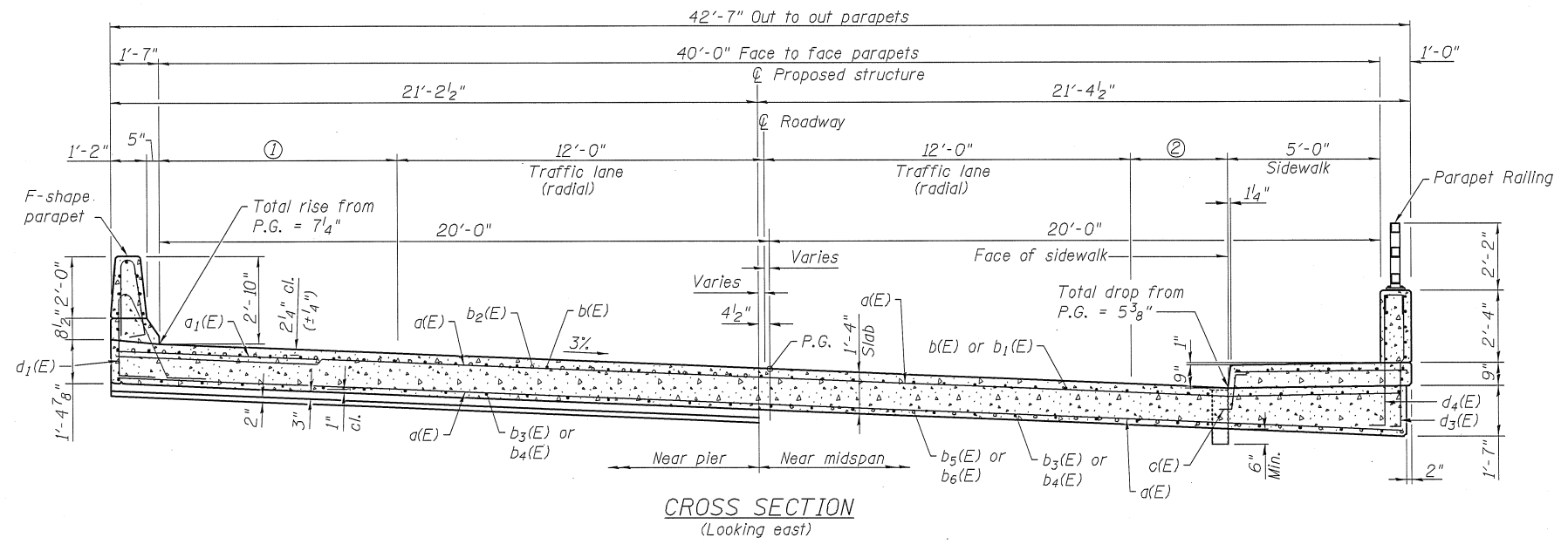
ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
W. end appr. slab	850+81.13	0.00	403.49
a	850+91.13	0.00	403.49
b	851+01.13	0.00	403.49
E. end appr. slab	851+11.13	0.00	403.49



Notes:  
See sheets 7 and 8 of 21 for Bill of Material and parapet details.  
Bars indicated thus: 20x2-#8 etc. indicates 20 lines of bars with 2 lengths per line.  
See sheet 9 of 21 for sections and additional superstructure details.

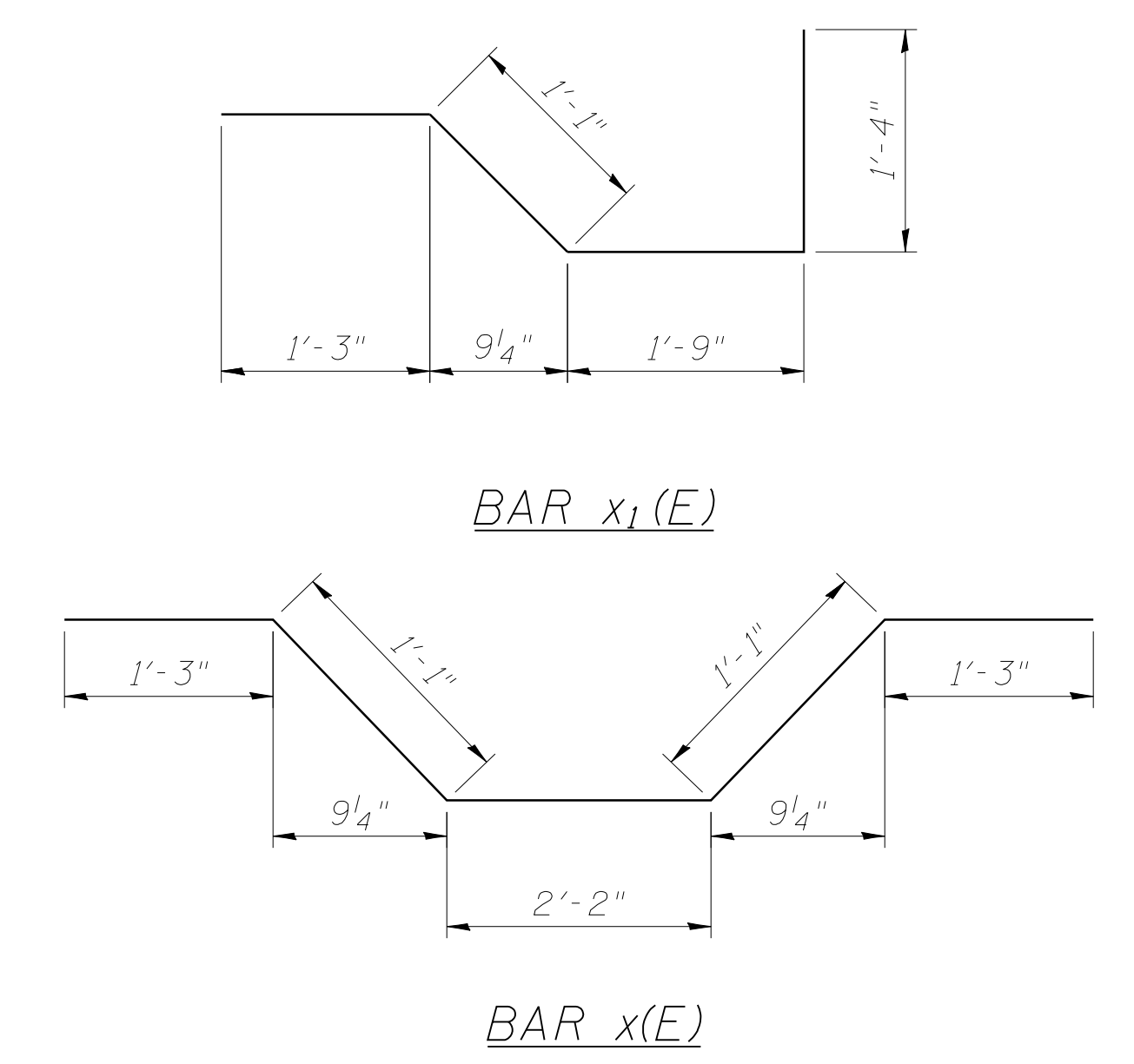
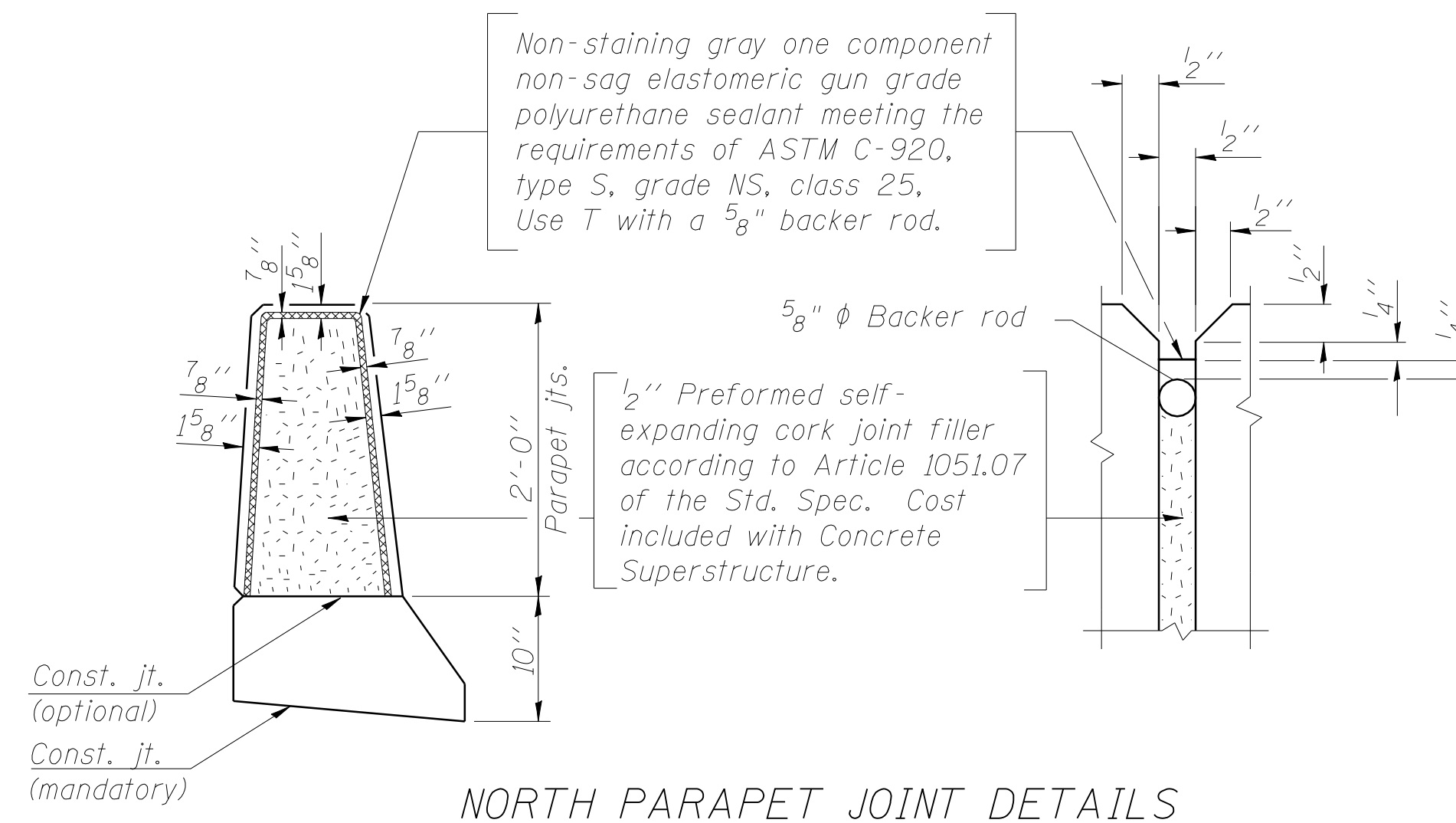
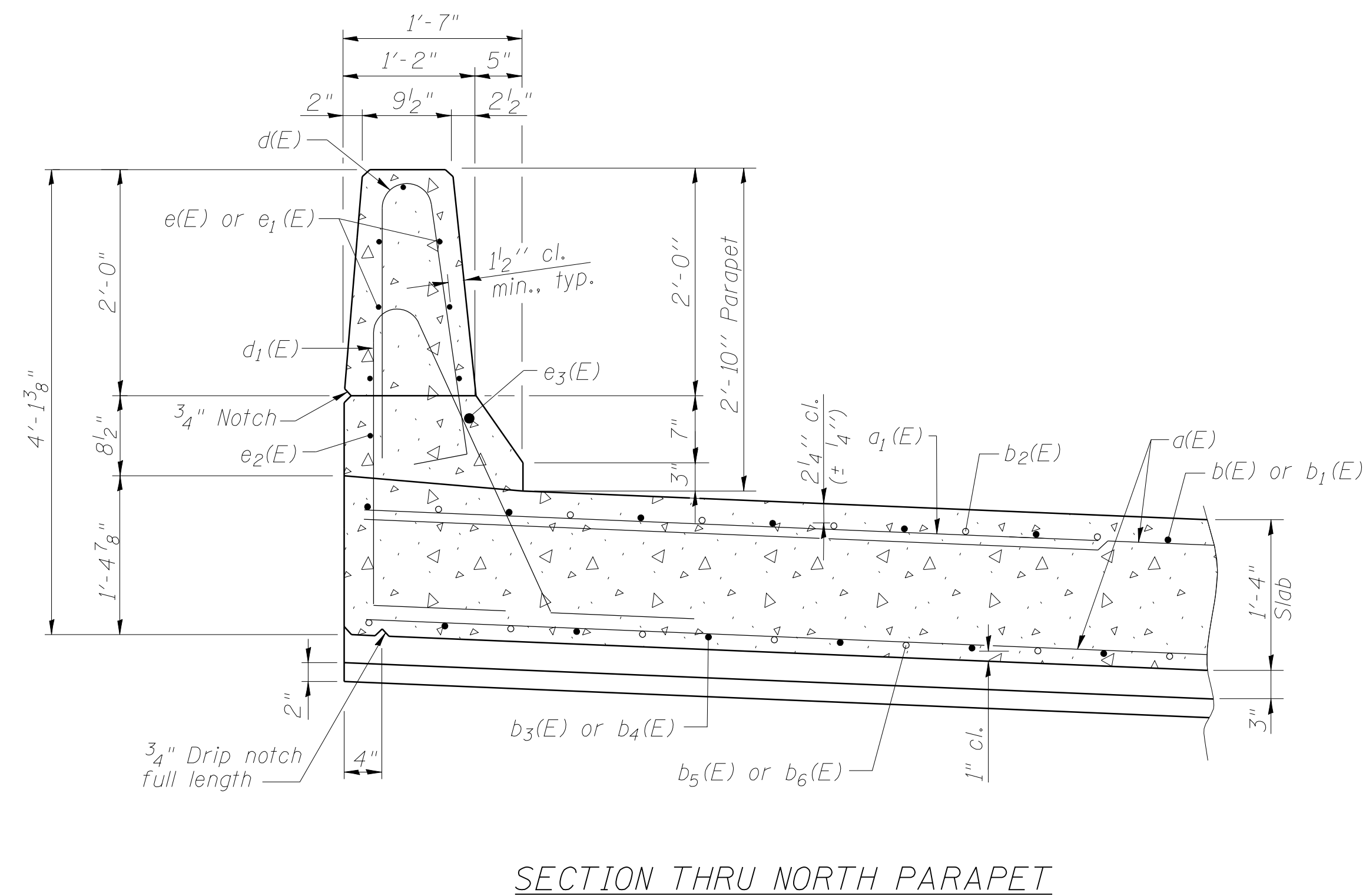
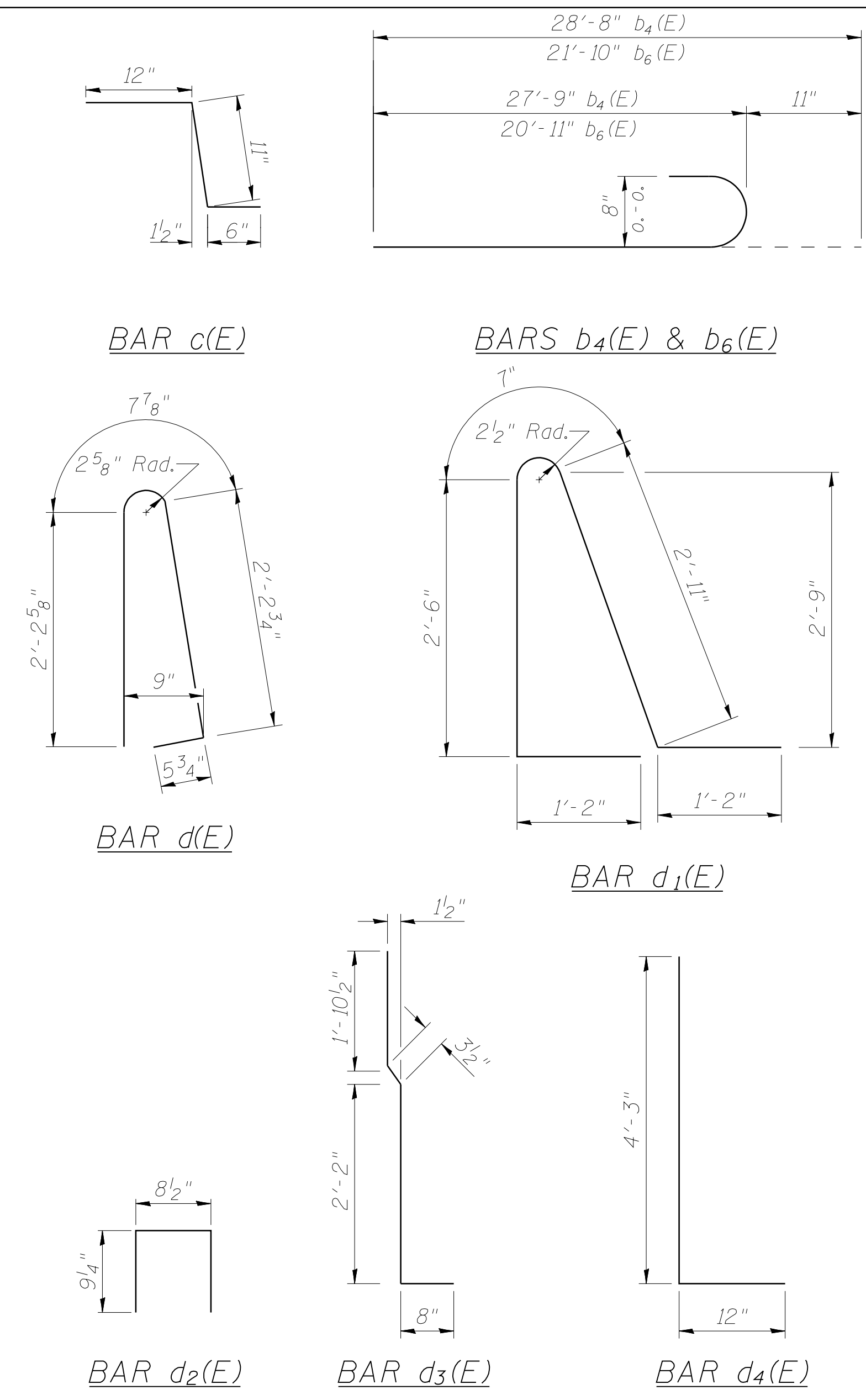
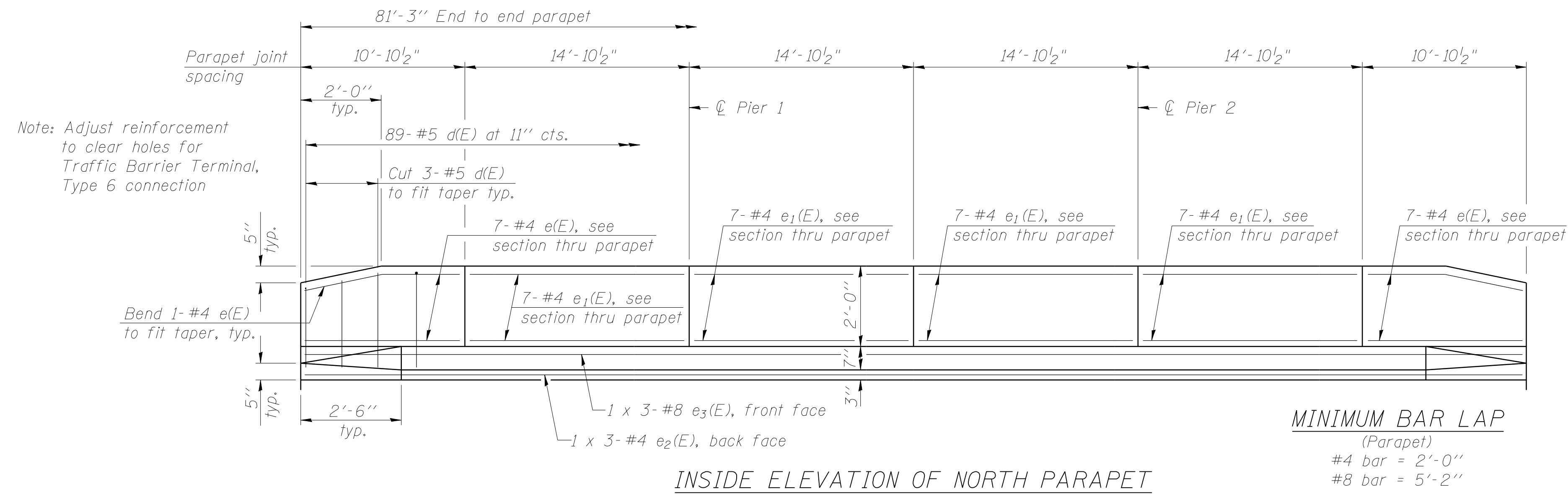
**MINIMUM BAR LAP**  
(Slab)  
#5 bar = 2'-3"  
#8 bar = 4'-8" (top)  
#8 bar = 4'-2" (bottom)



- ① Shoulder varies 7'-9 3/8" min. to 8'-2 1/2" max.
- ② Shoulder varies 2'-9 1/2" min. to 3'-2 5/8" max.

FILE NAME =	USER NAME = #USER#	DESIGNED - ELH 09/10	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUPERSTRUCTURE STRUCTURE NO. 093-0026</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILES#	ESCA JOB NO. 933.12	CHECKED - MJW/RDP 09/10	REVISED -			332	(103B)B-1	WABASH	53	21	
PLOT SCALE = #SCALE#	DRAWN - DWH/KAH 08/11	REVISED -				CONTRACT NO. 74220					
PLOT DATE = #DATE#	*TIME#	CHECKED - ELH 08/11	REVISED -			SHEET NO. 6 OF 21 SHEETS					





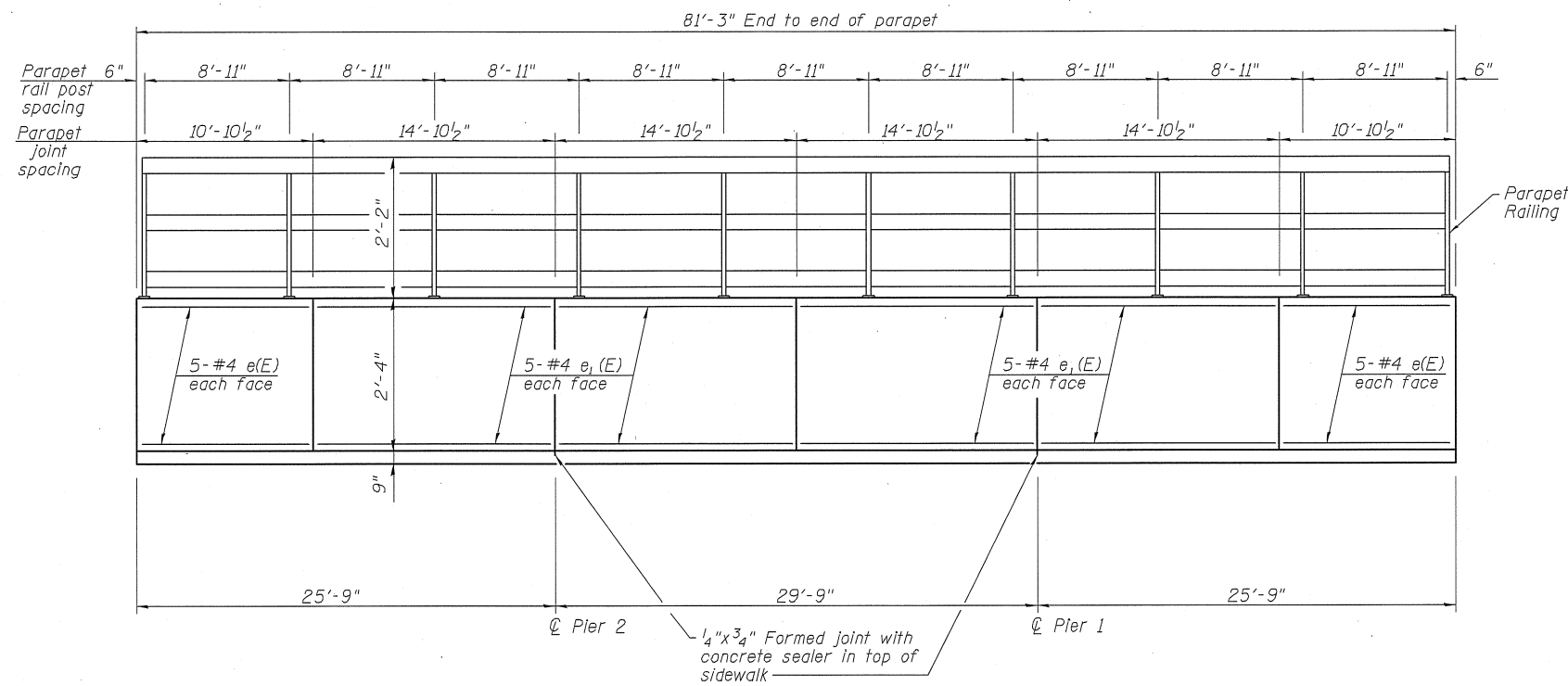
FILE NAME = 0930026-74220-07-Spr-Dt1.dgn	USER NAME = RJT	DESIGNED - ELH 09/10	REVISED -
	ESCA JOB NO. 933.12	CHECKED - MJW/RDP 09/10	REVISED -
	PLOT SCALE = 0:1' = 1/4" IN.	DRAWN - DWH/KAH 08/11	REVISED -
	PLOT DATE = 12/15/2011 1:29:58 PM	CHECKED - ELH 08/11	REVISED -

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

**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 093-0026**

SHEET NO. 7 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	22
CONTRACT NO. 74220				
ILLINOIS FED. AID PROJECT				

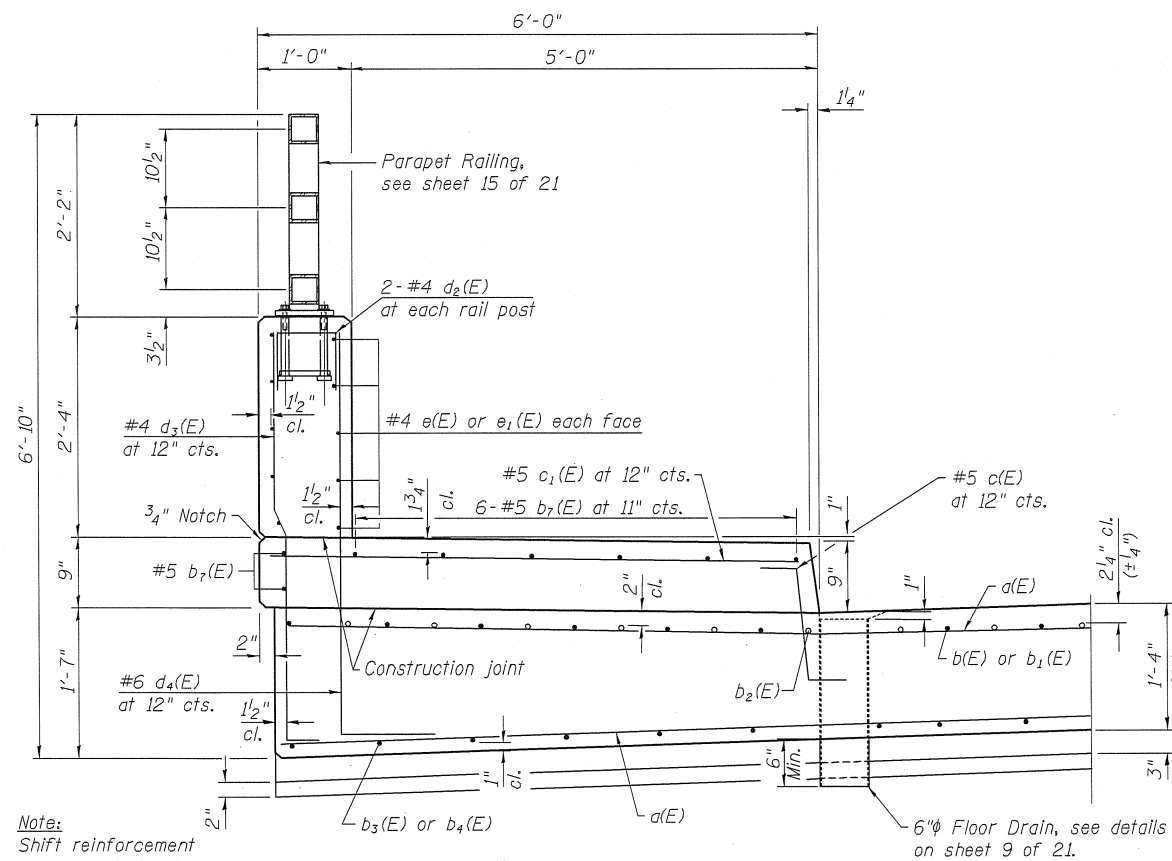


ELEVATION OF INSIDE FACE OF SOUTH PARAPET

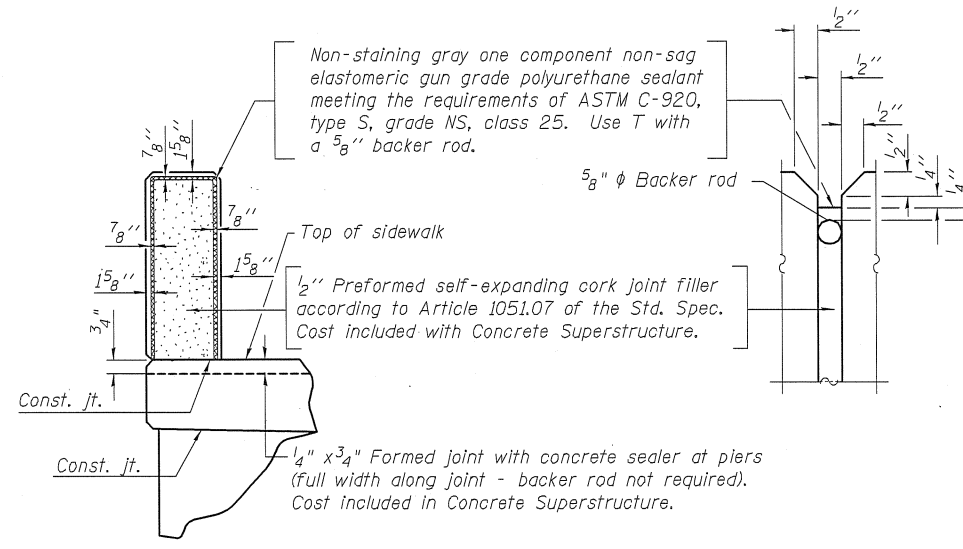
**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	131	#5	42'-0"	—
a <sub>1</sub> (E)	54	#6	6'-6"	—
b(E)	86	#8	33'-5"	—
b <sub>1</sub> (E)	86	#5	11'-8"	—
b <sub>2</sub> (E)	84	#8	9'-3"	—
b <sub>3</sub> (E)	32	#8	33'-11"	—
b <sub>4</sub> (E)	64	#8	28'-8"	U
b <sub>5</sub> (E)	31	#8	18'-3"	—
b <sub>6</sub> (E)	62	#8	21'-10"	U
b <sub>7</sub> (E)	24	#5	28'-6"	—
c(E)	81	#5	2'-5"	Λ
c <sub>1</sub> (E)	81	#5	5'-7"	—
d(E)	89	#5	5'-7"	Λ
d <sub>1</sub> (E)	89	#5	8'-4"	Λ
d <sub>2</sub> (E)	20	#4	2'-3"	□
d <sub>3</sub> (E)	82	#4	5'-0"	Λ
d <sub>4</sub> (E)	82	#6	5'-3"	L
e(E)	34	#4	10'-7"	—
e <sub>1</sub> (E)	68	#4	14'-7"	—
e <sub>2</sub> (E)	3	#4	28'-4"	—
e <sub>3</sub> (E)	3	#8	30'-5"	—
x(E)	86	#5	6'-10"	~
x <sub>1</sub> (E)	86	#5	5'-5"	~
Reinforcement Bars, Epoxy Coated	Pound	35,920		
Concrete Superstructure	Cu. Yd.	208.0		
Floor Drains	Each	4		

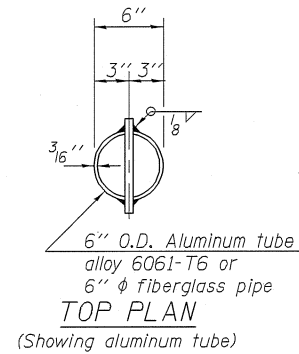
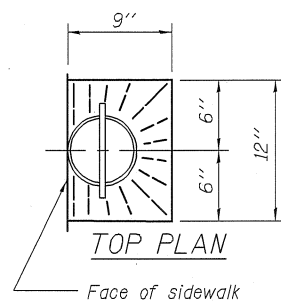
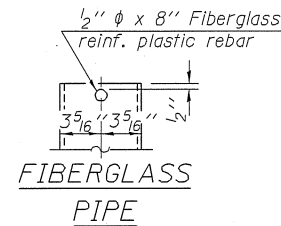
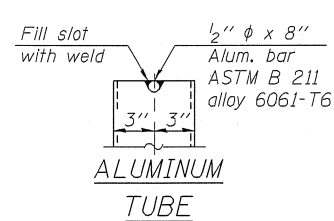
Bars indicated thus: 1x3-#8 etc. indicates 1 line of bars with 3 lengths per line. Name Plate to be mounted on inside face of parapet, see sheet 1 of 21. See sheet 7 of 21 for bar bending details.



SECTION THRU SOUTH PARAPET

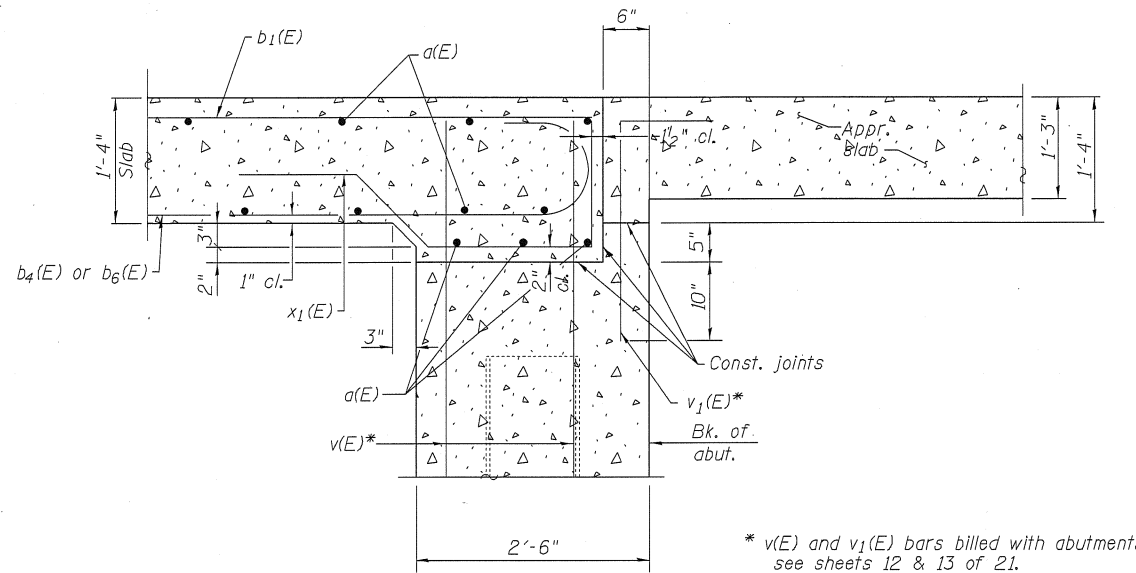


SOUTH PARAPET JOINT DETAILS

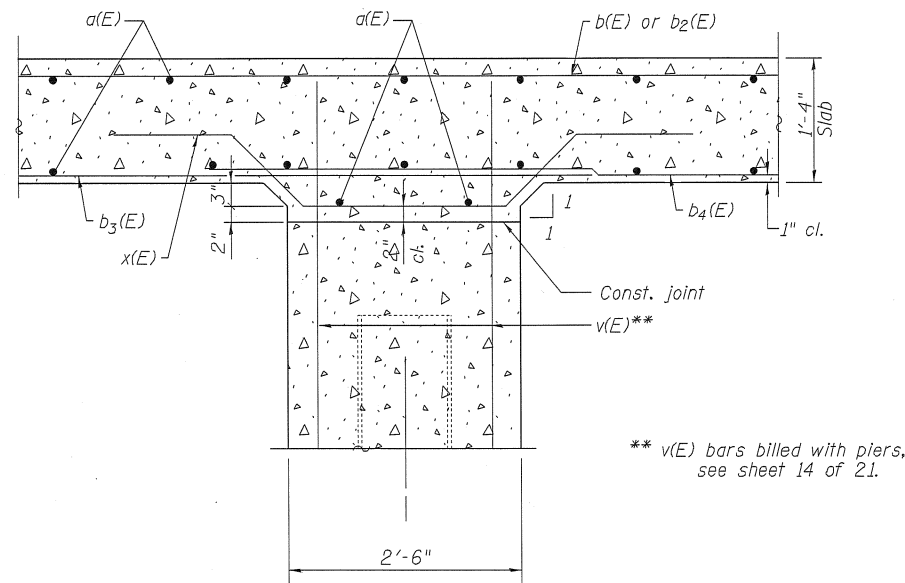


**FLOOR DRAIN DETAILS**

Notes:  
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.



**SECTION A-A**



**SECTION B-B**

FILE NAME =	USER NAME = #USER#	DESIGNED - ELH 09/10	REVISED -
#FILE#	ESCA JOB NO. 933.12	CHECKED - MJW/RDP 09/10	REVISED -
	PLOT SCALE = #SCALE#	DRAWN - DWH/KAH 08/11	REVISED -
	PLOT DATE = #DATE#	CHECKED - ELH 08/11	REVISED -

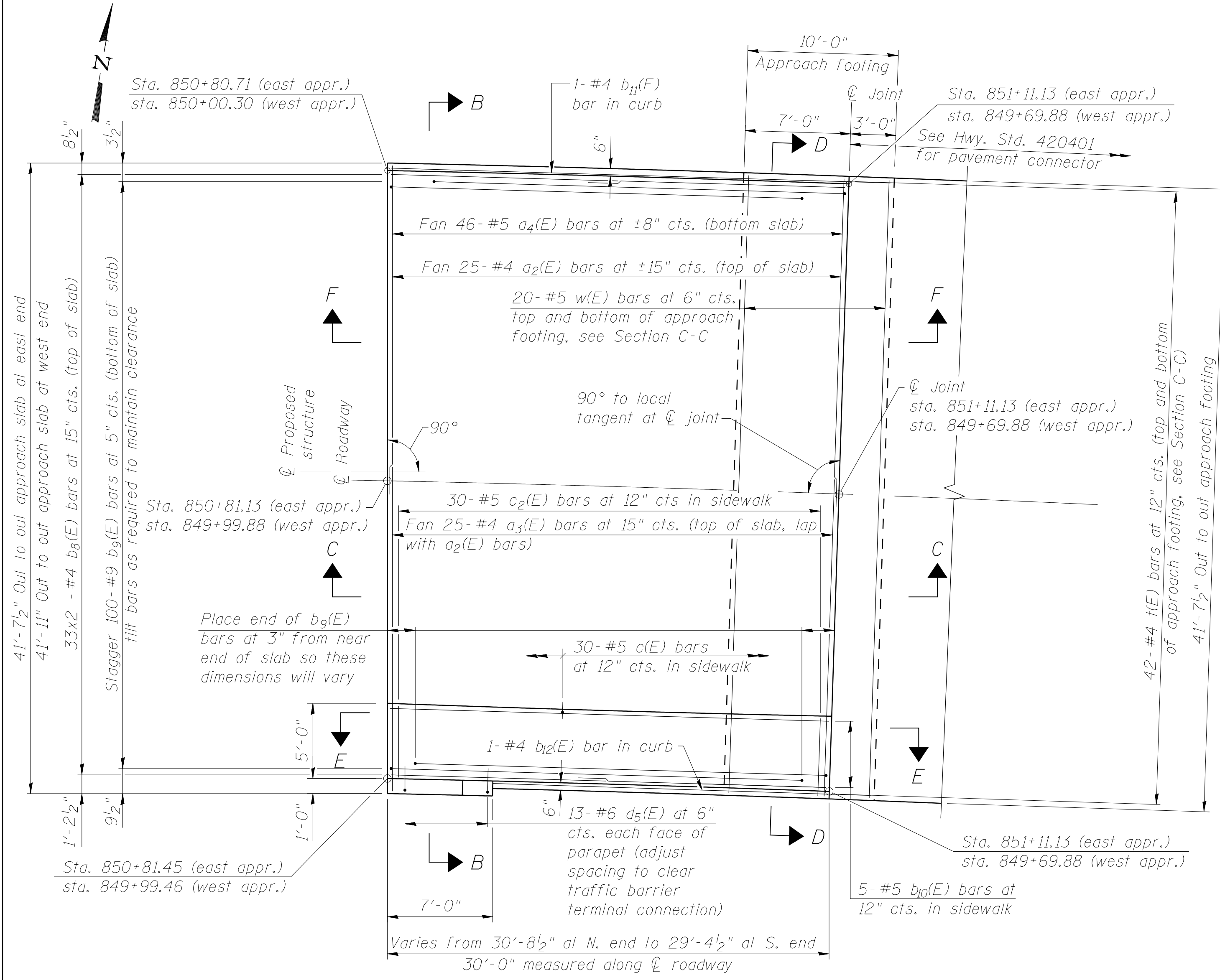
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 093-0026**

SHEET NO. 9 OF 21 SHEETS

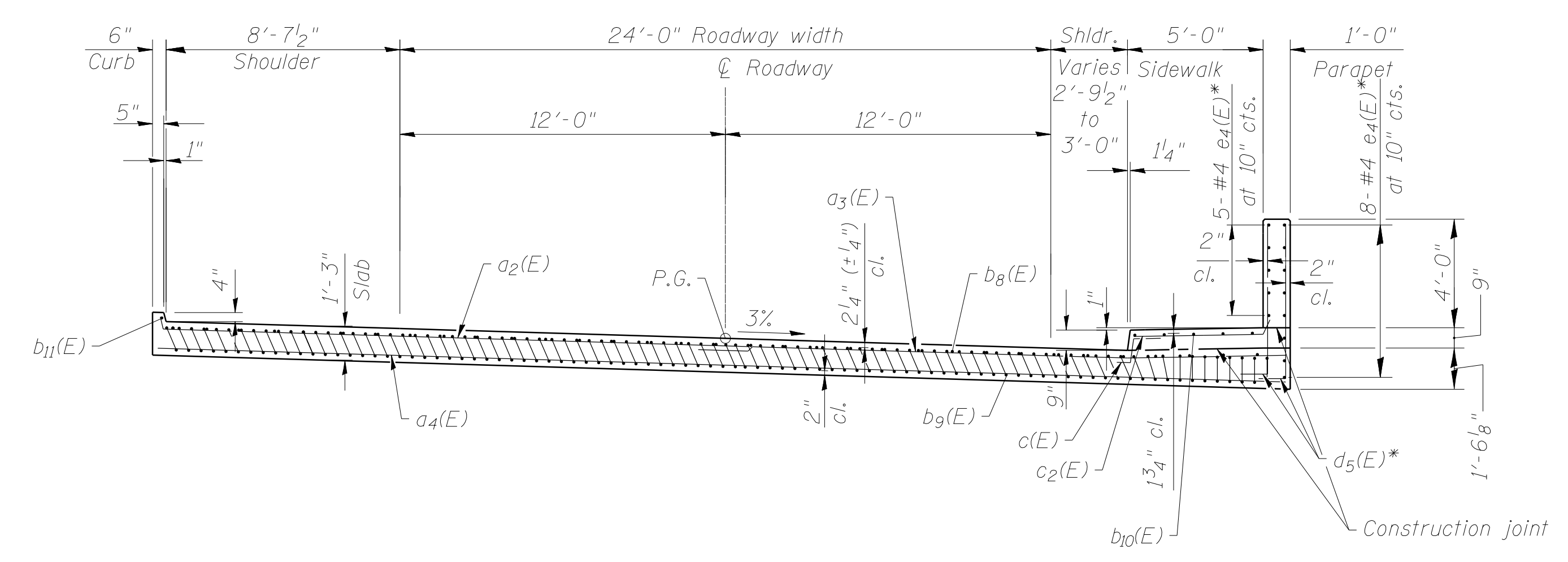
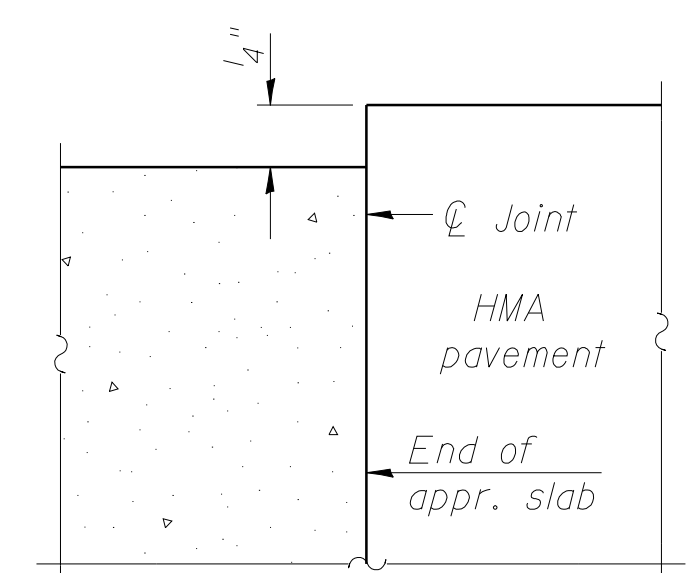
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	24
			CONTRACT NO. 74220	
ILLINOIS FED. AID PROJECT				

Notes:  
See sheet 11 of 21 for Section C-C and Views E-E & F-F.  
 $a_2(E)$ ,  $a_3(E)$  and  $a_4(E)$  bar spacings measured along  $\text{C.Rdwy.}$



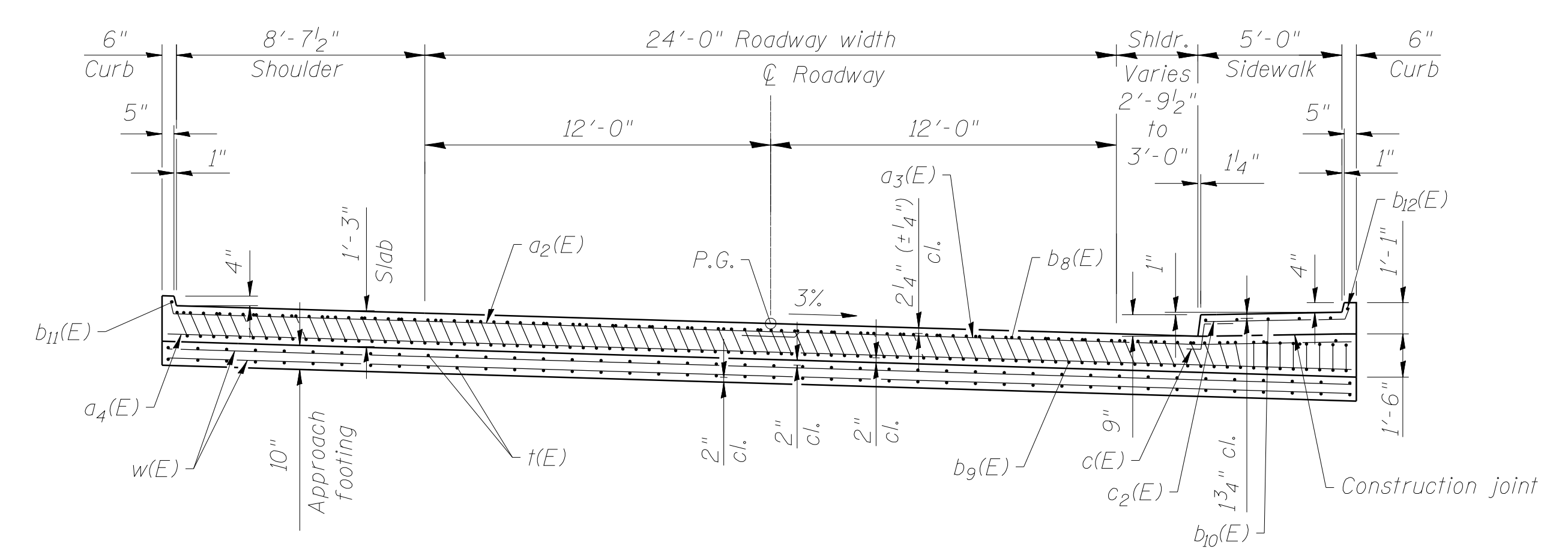
**PLAN**  
(East approach slab shown; west approach slab similar)

**MINIMUM BAR LAP**  
(Approach slab)  
#4 bar = 2'-0"



**SECTION B-B**

\* Locate to clear traffic barrier terminal connection



**SECTION D-D**

(Sheet 1 of 2)

FILE NAME = 0930026-74220-10-AprDtl.dgn	USER NAME = RJT	DESIGNED - ELH 09/10	REVISED -
	ESCA JOB NO. 933.12	CHECKED - MJW/RDP 09/10	REVISED -
	PLOT SCALE = 0:1' = 1" / IN.	DRAWN - DWH/KAH 08/11	REVISED -
	PLOT DATE = 12/15/2011 1:33:07 PM	CHECKED - ELH 08/11	REVISED -

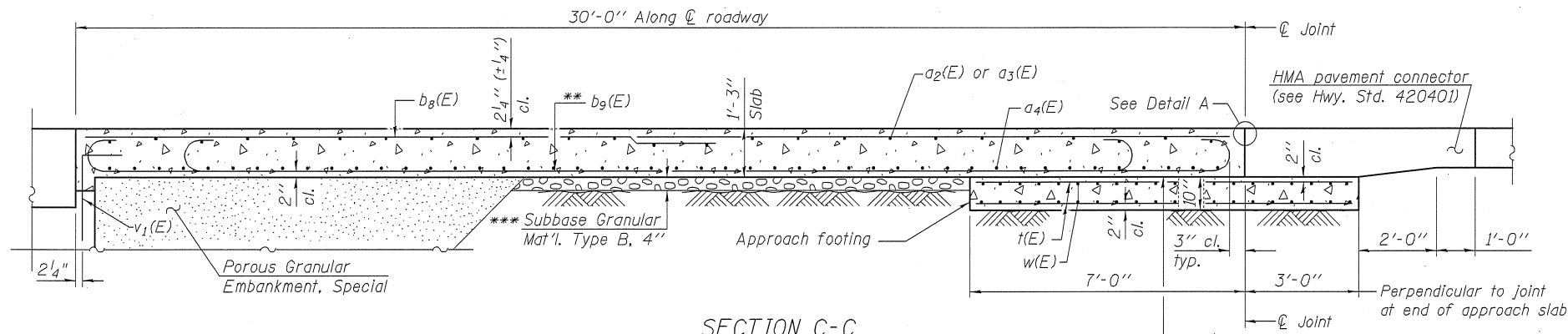
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 093-0026**

SHEET NO. 10 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	25
CONTRACT NO. 74220				

ILLINOIS FED. AID PROJECT



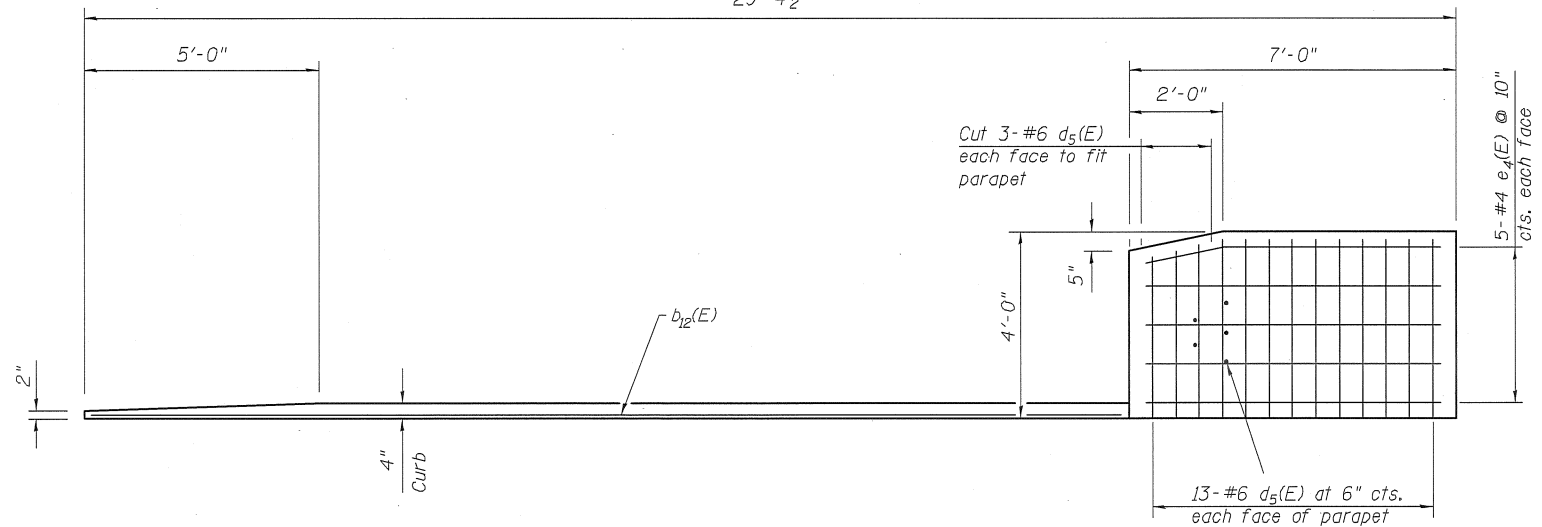
**SECTION C-C**

\*\* Tilt #9  $b_9(E)$  bars as required to maintain clearance.

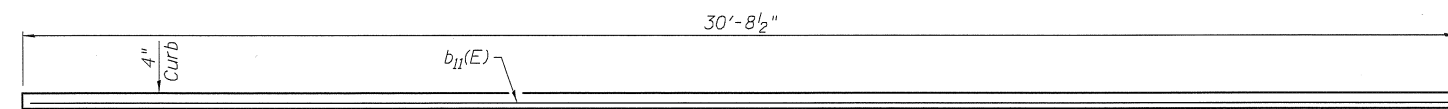
\*\*\* Cost Included with Concrete Superstructure.

29'-4 1/2"

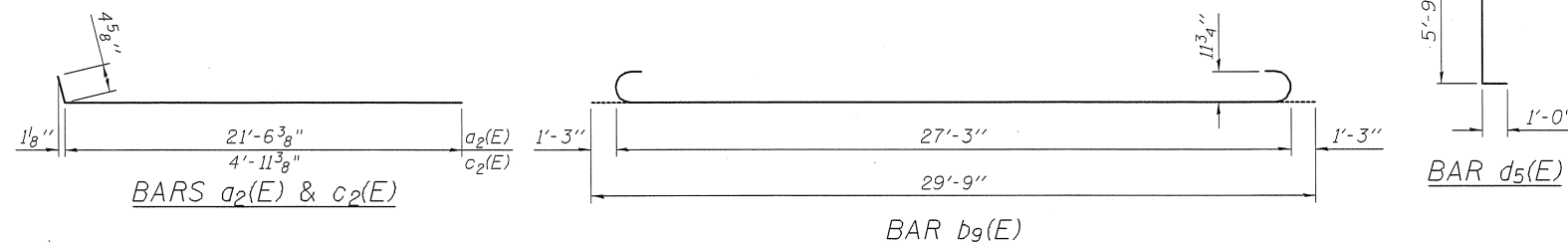
\*\*\* 10 Mil. polyethylene bond breaker on steel trowel finish



**VIEW E-E**



**VIEW F-F**



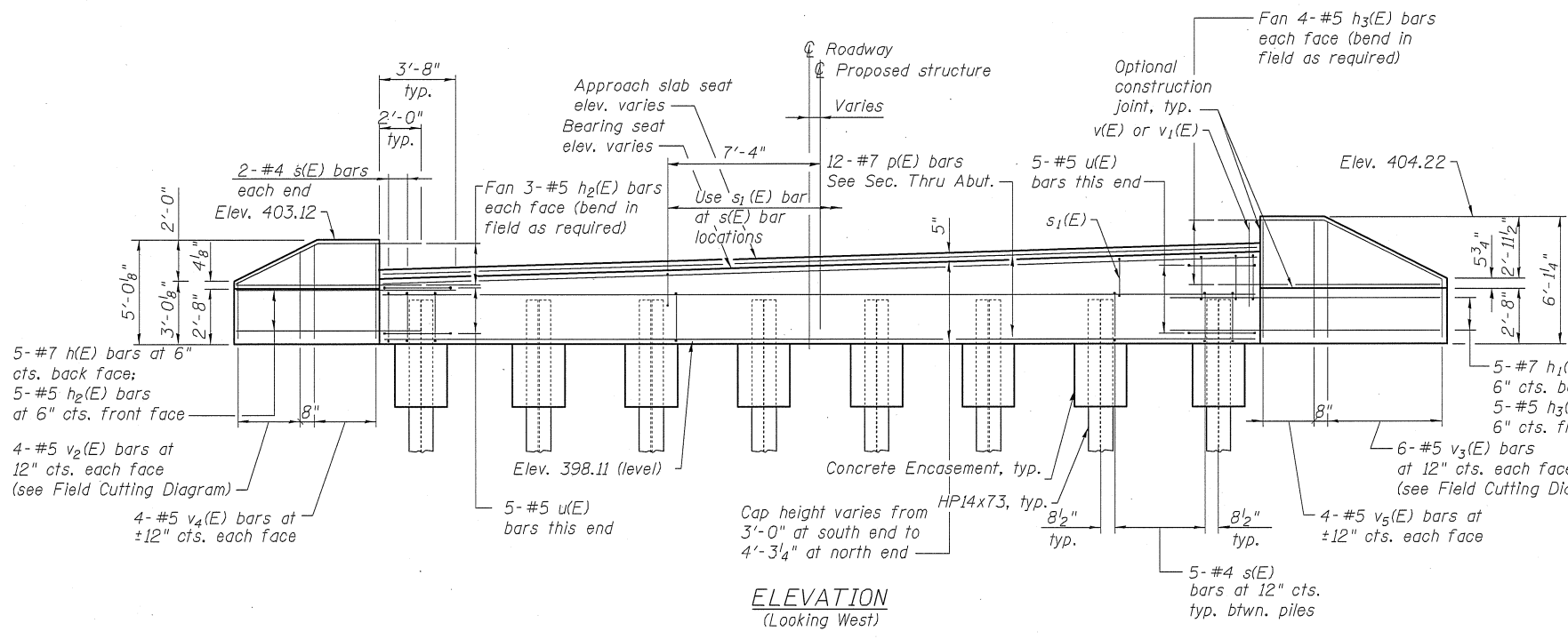
**Notes:**

See sheet 10 of 21 for Detail A and Sections B-B & D-D.  
Approach slab, sidewalk, 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  $v_1(E)$  bar details, see sheets 12 & 13 of 21.  
The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.  
Cost of excavation for approach footing included with Concrete Structures.  
For Porous Granular Embankment, Special and drainage treatment details, see sheet 2 of 21.

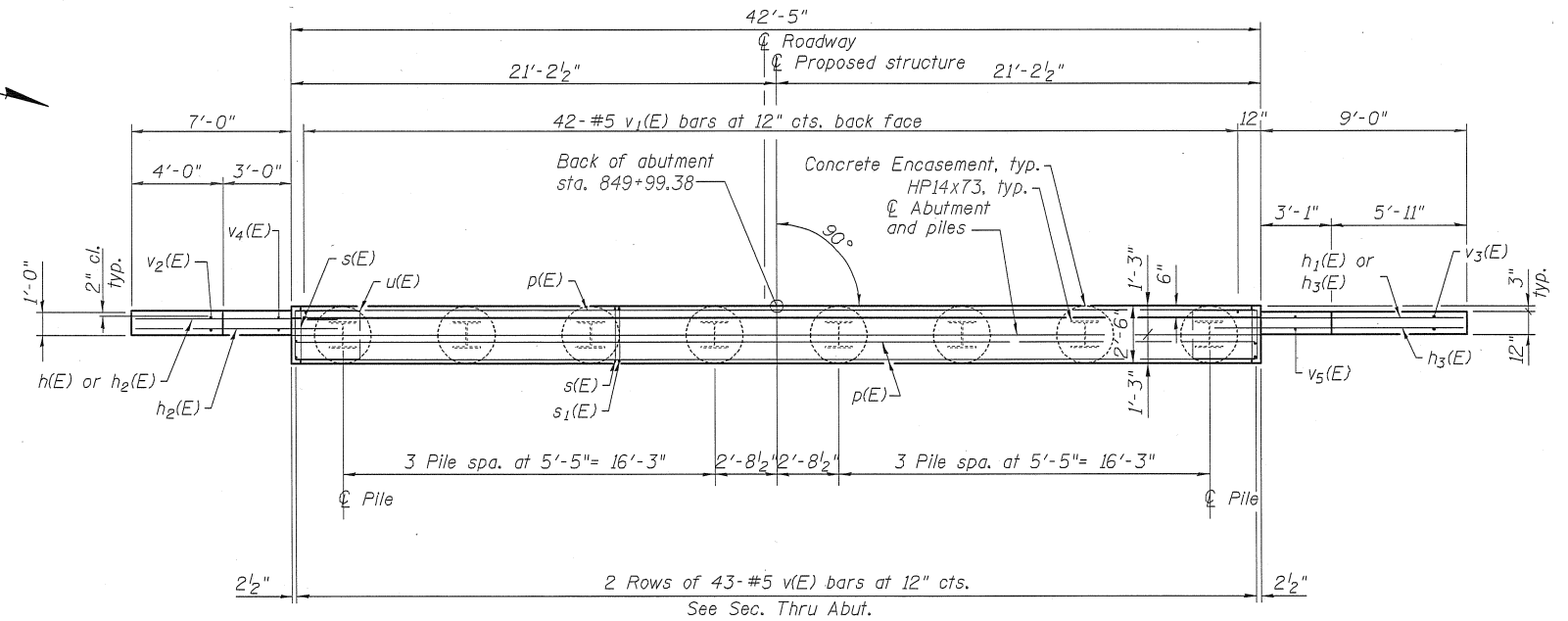
**TWO APPROACHES  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$a_2(E)$	50	#4	21'-11"	—
$a_3(E)$	50	#4	21'-8"	—
$a_4(E)$	92	#5	41'-0"	—
$b_8(E)$	132	#4	16'-2"	—
$b_9(E)$	200	#9	29'-9"	—
$b_{10}(E)$	10	#5	29'-1"	—
$b_{11}(E)$	2	#4	30'-4"	—
$b_{12}(E)$	2	#4	22'-0"	—
$c(E)$	60	#5	2'-5"	—
$c_2(E)$	60	#5	5'-4"	—
$d_5(E)$	52	#6	6'-9"	L
$e_4(E)$	26	#4	6'-8"	—
$t(E)$	168	#4	9'-8"	—
$w(E)$	80	#5	41'-3"	—
Concrete Superstructure		Cu. Yd.	129.4	
Concrete Structures		Cu. Yd.	25.7	
Reinforcement Bars, Epoxy Coated		Pound	33080	

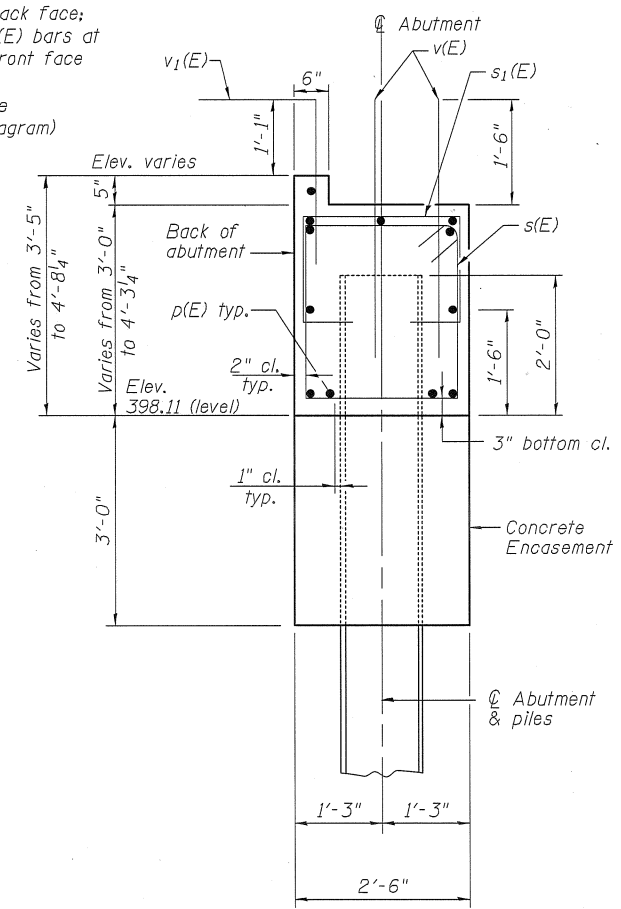
(Sheet 2 of 2)



**ELEVATION**  
(Looking West)



**PLAN**



**SECTION THRU WEST ABUTMENT**

**WEST ABUTMENT  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	5	#7	10'-6"	—
h1(E)	5	#7	12'-6"	—
h2(E)	11	#5	8'-10"	—
h3(E)	13	#5	10'-10"	—
p(E)	12	#7	42'-1"	—
s(E)	39	#4	10'-1"	□
s1(E)	27	#4	6'-6"	□
u(E)	10	#5	9'-5"	□
v(E)	86	#5	3'-8"	—
v1(E)	42	#5	4'-0"	└
v2(E)	4	#5	6'-8"	—
v3(E)	6	#5	7'-11"	—
v4(E)	8	#5	4'-7"	—
v5(E)	8	#5	5'-8"	—
<b>Structure Excavation</b> Cu. Yd. 74				
<b>Concrete Structures</b> Cu. Yd. 17.5				
<b>Reinforcement Bars, Epoxy Coated</b> Pound 2670				
<b>Furnishing Steel Piles, HP14x73</b> Lin. Ft. 371				
<b>Driving Piles</b> Lin. Ft. 371				
<b>Test Pile, Steel HP14x73</b> Each 1				
<b>Concrete Encasement</b> Cu. Yd. 4.4				
<b>Porous Granular Embankment, Special</b> Cu. Yd. 34				
<b>Geocomposite Wall Drain</b> Sq. Yd. 25				
<b>Pipe Underdrains for Structures, 4"</b> Foot 72				

For details of piles and Concrete Encasement, see Sheet 17 of 21.  
For bar bending details, see Sheet 13 of 21.

**PILE DATA**  
Type: Steel HP14x73  
Nominal Required Bearing: 578 kips  
Factored Resistance Available: 318 kips  
Estimated Length: 53'  
No. of Production Piles: 7  
No. of Test Piles: 1

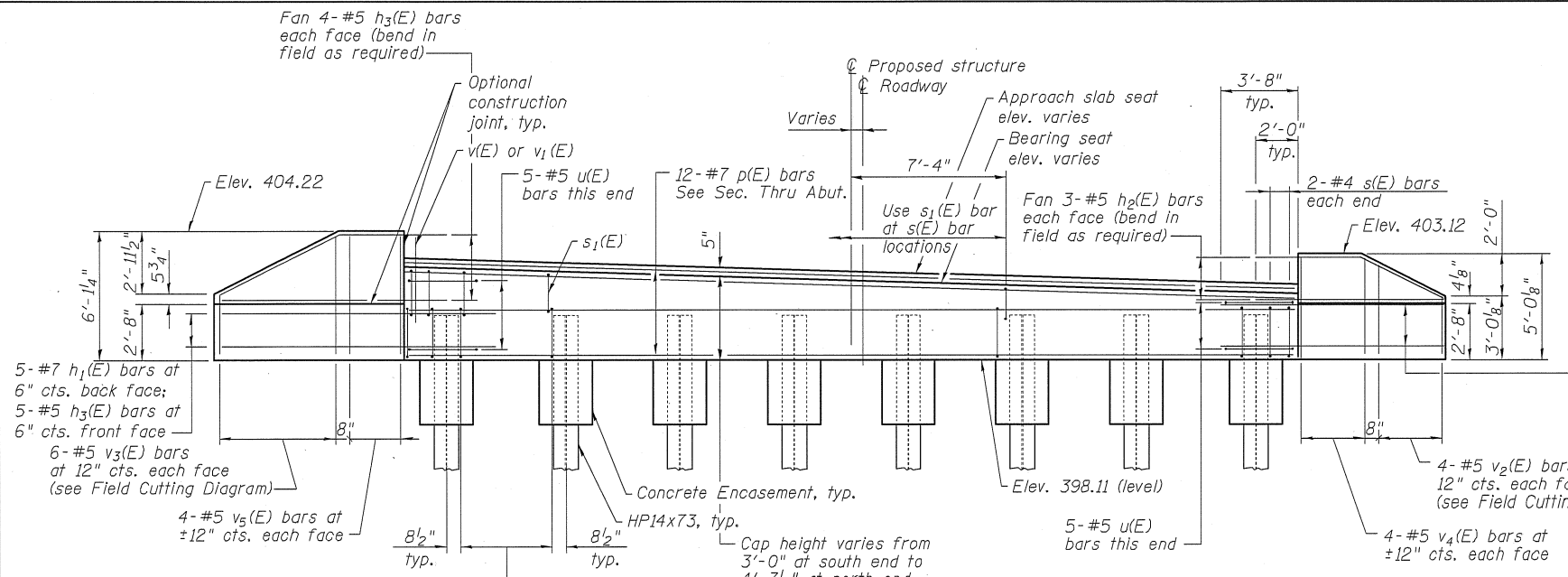
FILE NAME =	USER NAME = #USER#	DESIGNED - ELH 11/10	REVISED -
#FILES#	ESCA JOB NO. 933.12	CHECKED - MJW/RDP 11/10	REVISED -
	PLOT SCALE = #SCALE#	DRAWN - DWH/HAS 08/11	REVISED -
	PLOT DATE = #DATE#	CHECKED - ELH 08/11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

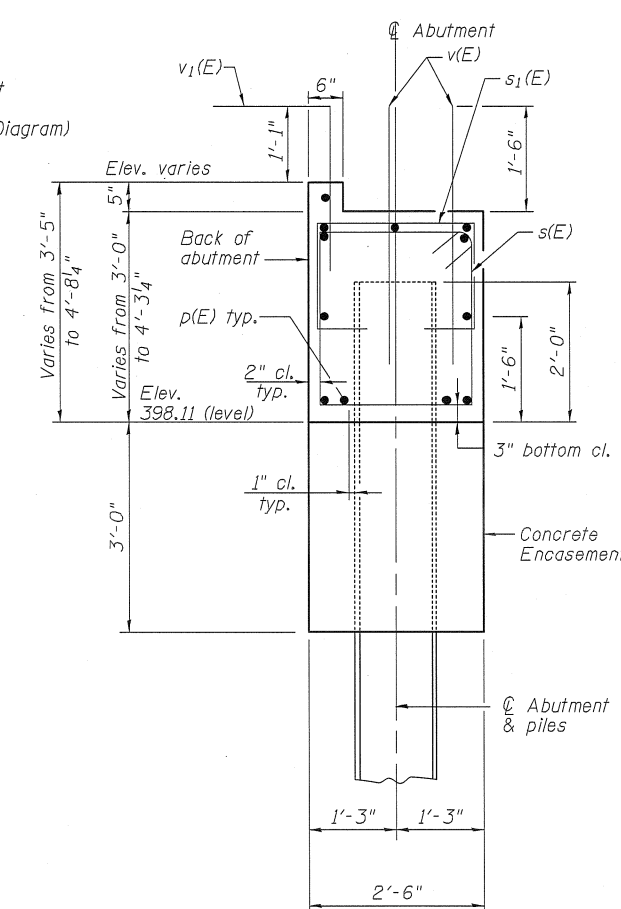
**WEST ABUTMENT  
STRUCTURE NO. 093-0026**

SHEET NO. 12 OF 21 SHEETS

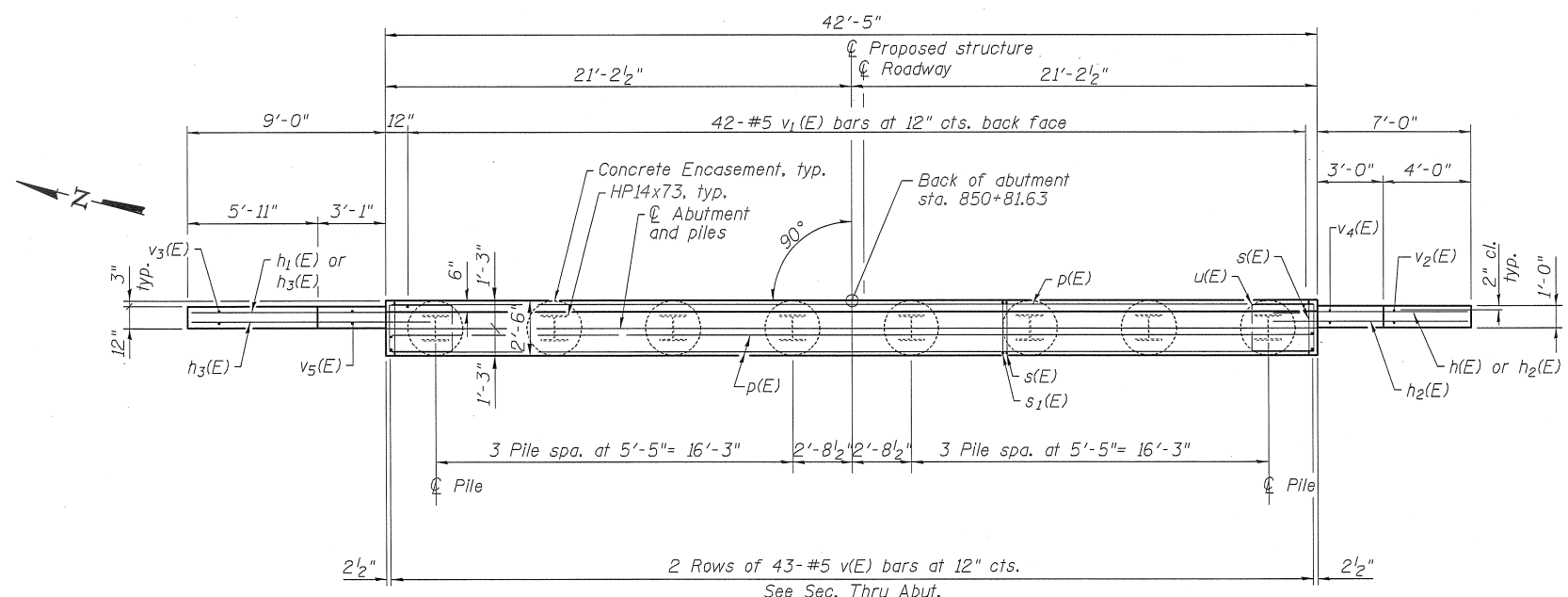
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	27
				CONTRACT NO. 74220
ILLINOIS FED. AID PROJECT				



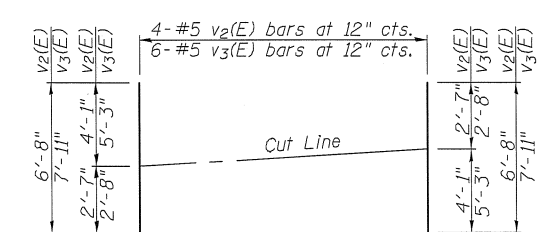
**ELEVATION**  
(Looking East)



**SECTION THRU EAST ABUTMENT**



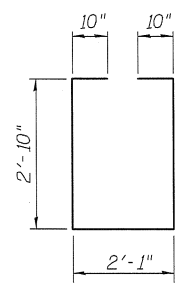
**PLAN**



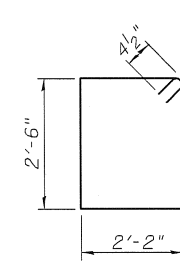
**BARS v<sub>2</sub>(E) & v<sub>3</sub>(E)**

**FIELD CUTTING DIAGRAM**

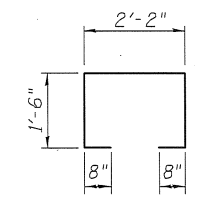
Order v<sub>2</sub>(E) and v<sub>3</sub>(E) full length.  
Cut as shown and use remainder of bars in opposite face.



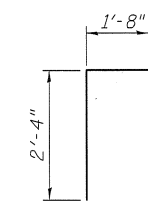
**BAR u(E)**



**BAR s(E)**



**BAR s<sub>1</sub>(E)**



**BAR v<sub>1</sub>(E)**

**EAST ABUTMENT  
BILL OF MATERIAL**

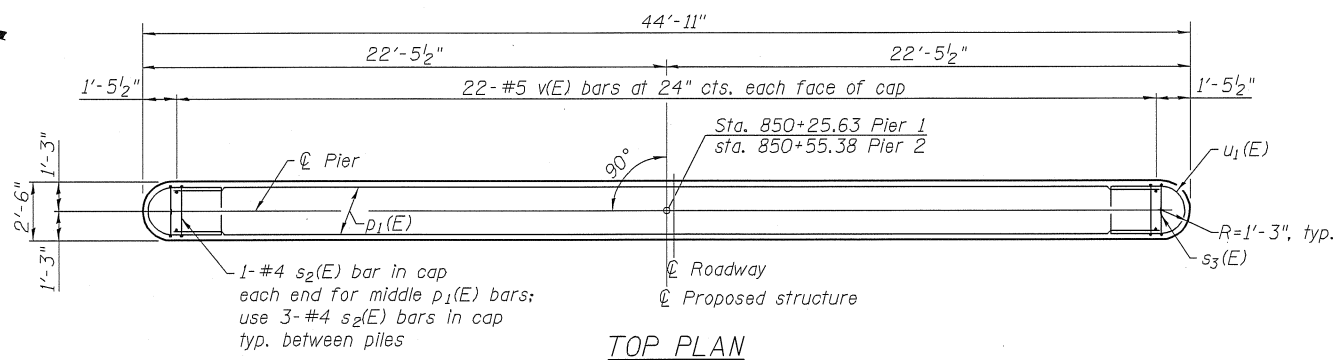
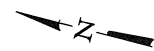
Bar	No.	Size	Length	Shape
h(E)	5	#7	10'-6"	—
h <sub>1</sub> (E)	5	#7	12'-6"	—
h <sub>2</sub> (E)	11	#5	8'-10"	—
h <sub>3</sub> (E)	13	#5	10'-10"	—
p(E)	12	#7	42'-1"	—
s(E)	39	#4	10'-1"	□
s <sub>1</sub> (E)	27	#4	6'-6"	□
u(E)	10	#5	9'-5"	□
v(E)	86	#5	3'-8"	—
v <sub>1</sub> (E)	42	#5	4'-0"	┌
v <sub>2</sub> (E)	4	#5	6'-8"	—
v <sub>3</sub> (E)	6	#5	7'-11"	—
v <sub>4</sub> (E)	8	#5	4'-7"	—
v <sub>5</sub> (E)	8	#5	5'-8"	—
Structure Excavation		Cu. Yd.	74	
Concrete Structures		Cu. Yd.	17.5	
Reinforcement Bars, Epoxy Coated		Pound	2670	
Furnishing Steel Piles, HP14x73		Foot	525	
Driving Piles		Foot	525	
Test Pile, Steel HP14x73		Each	1	
Concrete Encasement		Cu. Yd.	4.4	
Porous Granular Embankment, Special		Cu. Yd.	34	
Geocomposite Wall Drain		Sq. Yd.	25	
Pipe Underdrains for Structures, 4"		Foot	72	

For details of piles and Concrete Encasement, see Sheet 17 of 21.

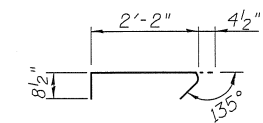
**PILE DATA**

Type: Steel HP14x73  
Nominal Required Bearing: 578 kips  
Factored Resistance Available: 318 kips  
Estimated Length: 75'  
No. of Production Piles: 7  
No. of Test Piles: 1

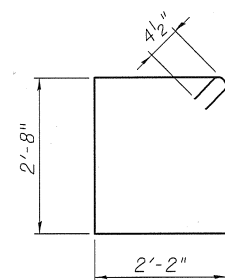




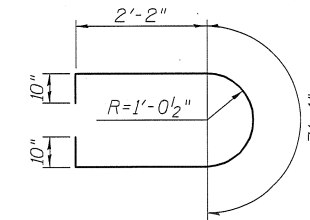
**TOP PLAN**



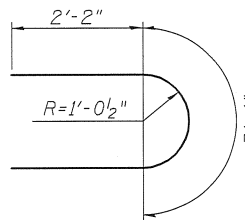
**BAR s<sub>2</sub>(E)**



**BAR s<sub>3</sub>(E)**



**BAR u<sub>1</sub>(E)**



**BAR u<sub>2</sub>(E)**

**BILL OF MATERIAL**  
(For one pier unless noted otherwise)

Bar	No.	Size	Length	Shape
h <sub>4</sub> (E)	14	#5	38'-2"	—
h <sub>5</sub> (E)	32	#5	42'-4"	—
p <sub>1</sub> (E)	7	#7	42'-4"	—
s <sub>2</sub> (E)	624	#4	3'-3"	⌋
s <sub>3</sub> (E)	42	#4	10'-5"	⌋
u <sub>1</sub> (E)	42	#5	9'-4"	⌋
u <sub>2</sub> (E)	14	#5	7'-8"	⌋
v(E)	44	#5	3'-8"	—
v <sub>6</sub> (E)	47	#5	15'-11"	—
v <sub>7</sub> (E)	5	#5	17'-3"	—
v <sub>8</sub> (E)	42	#5	16'-7"	—

		Pier 1	Pier 2
Cofferdam Excavation	Cu. Yd.	49	49
Concrete Structures	Cu. Yd.	70.1	70.1
Reinforcement Bars, Epoxy Coated	Pound	6510	6510
Furnishing Steel Piles, HP14x73	Foot	632	600
Driving Piles	Foot	632	600
Test Pile, Steel HP14x73	Each	1	1
Concrete Encasement (Location-1)	Cu. Yd.	4.9	4.9
Cofferdam (Type 2)	Each	1	
Cofferdam (Type 2) (Location-2)	Each		1

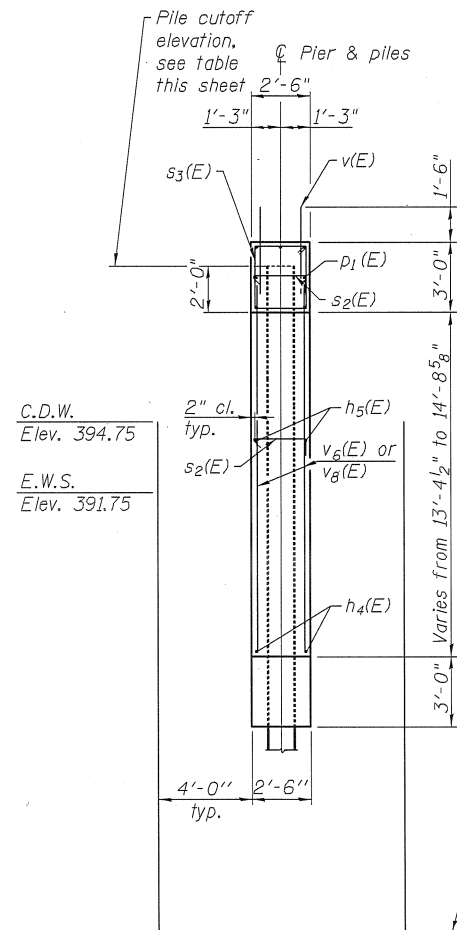
For details of piles and Concrete Encasement, see sheet 17 of 21.  
For details of Mechanical Splicers, see sheet 16 of 21.

**PILE DATA**

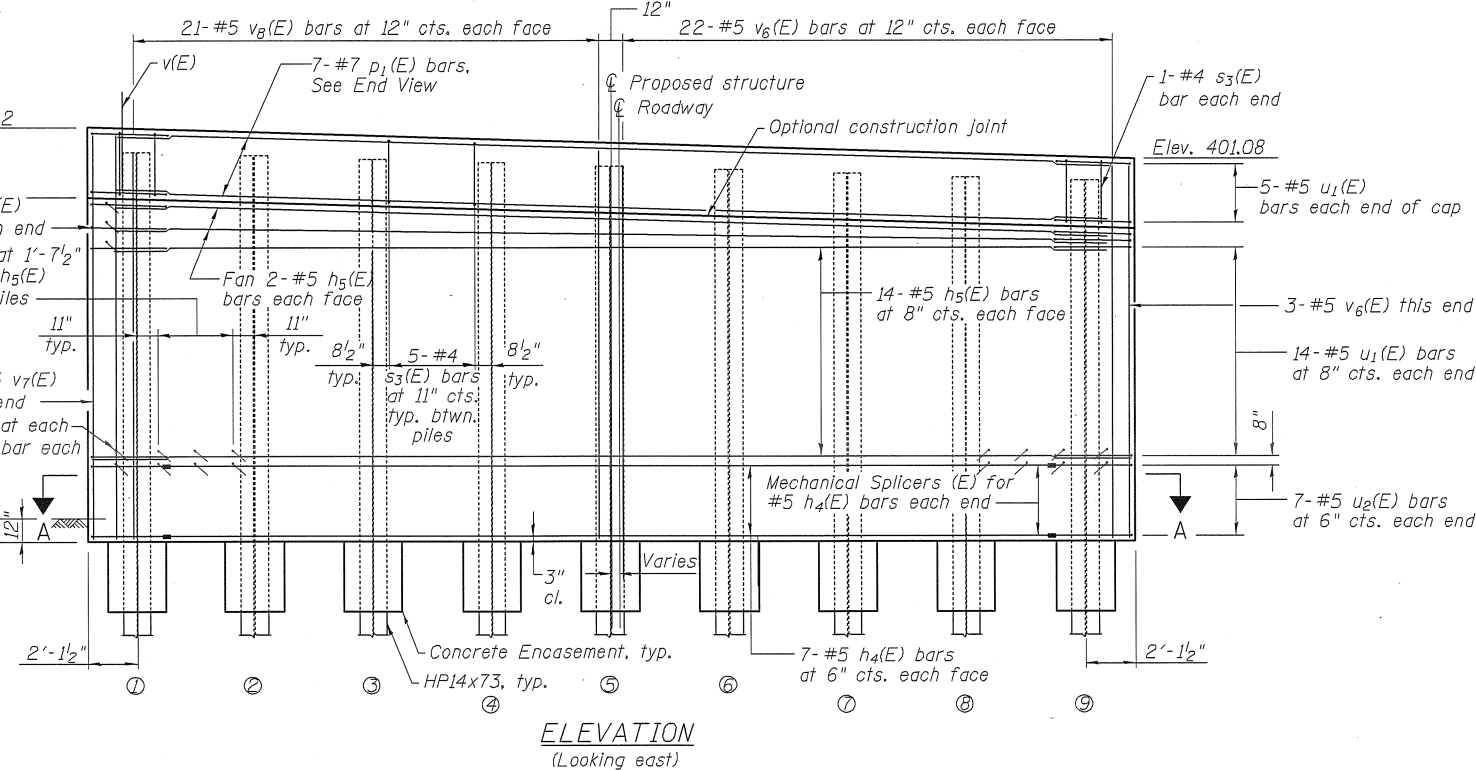
Type: Steel HP14x73  
Nominal Required Bearing: 578 kips  
Factored Resistance Available: 318 kips  
Estimated Length: 79' (Pier 1)  
75' (Pier 2)  
No. of Production Piles: 8 each pier  
No. of Test Piles: 1 each pier

**PILE CUTOFF TABLE**

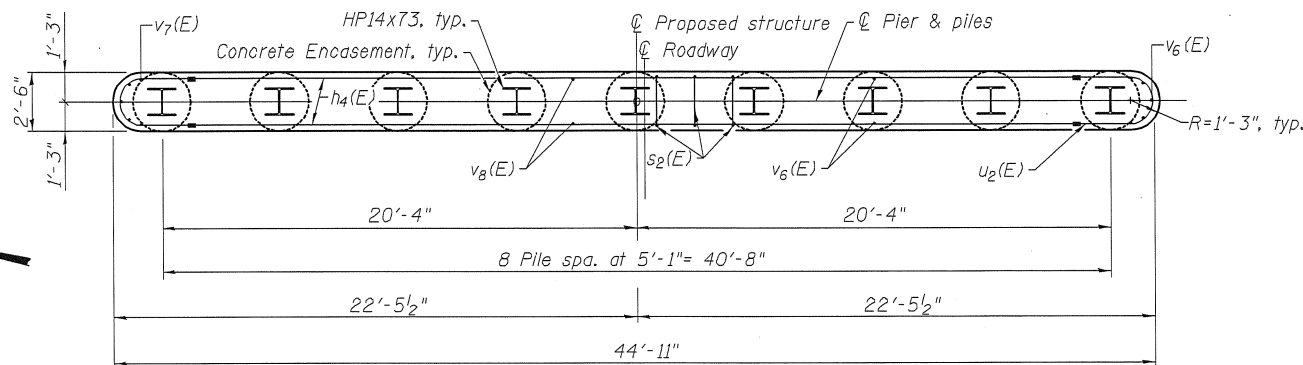
Pile No.	Cutoff Elevation
①	401.36
②	401.21
③	401.05
④	400.90
⑤	400.75
⑥	400.60
⑦	400.45
⑧	400.29
⑨	400.14



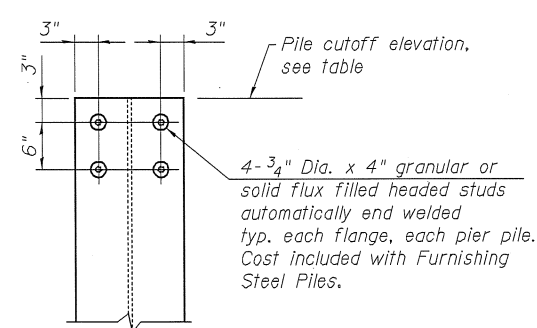
**END VIEW**



**ELEVATION**  
(Looking east)



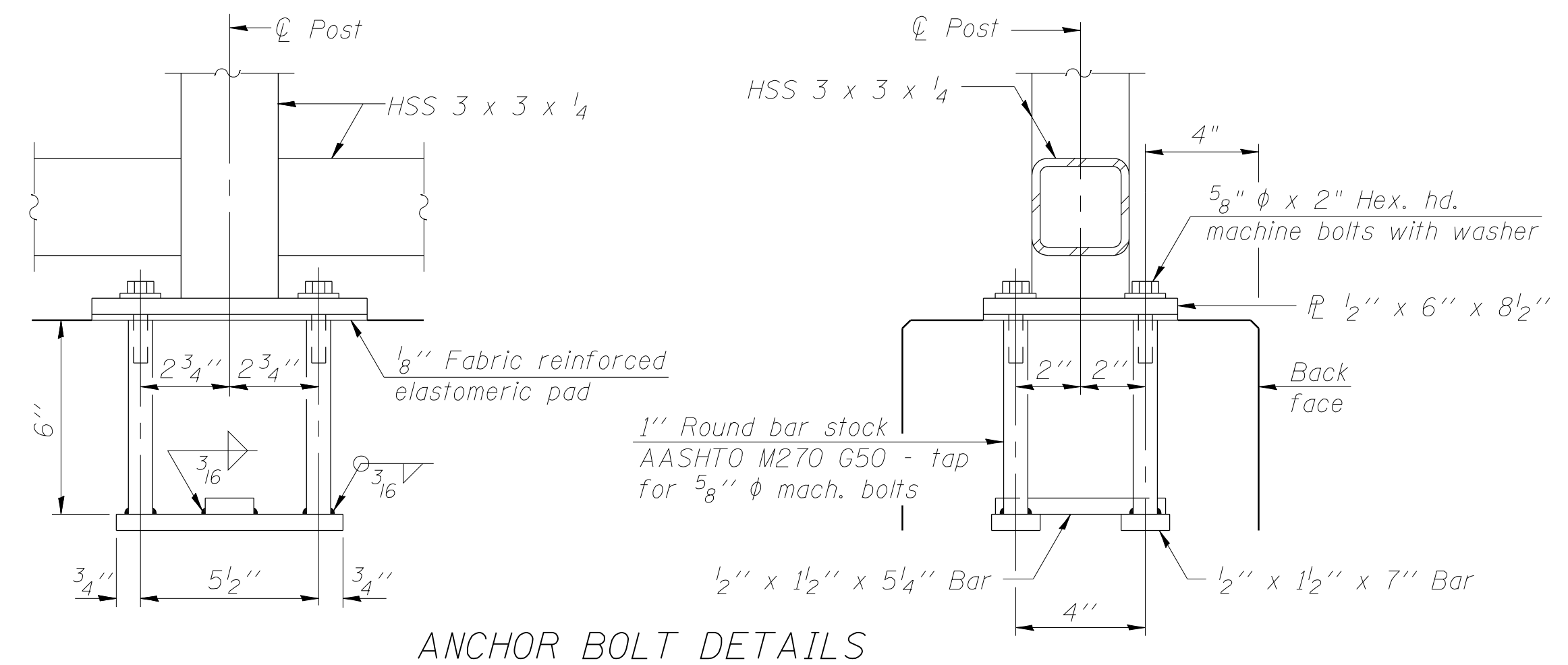
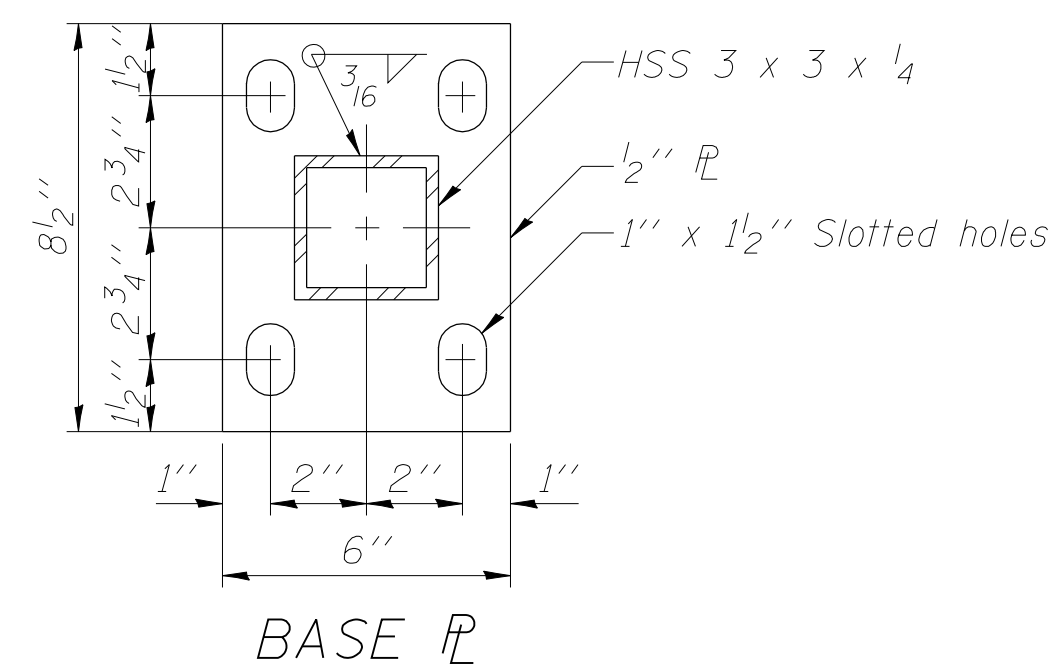
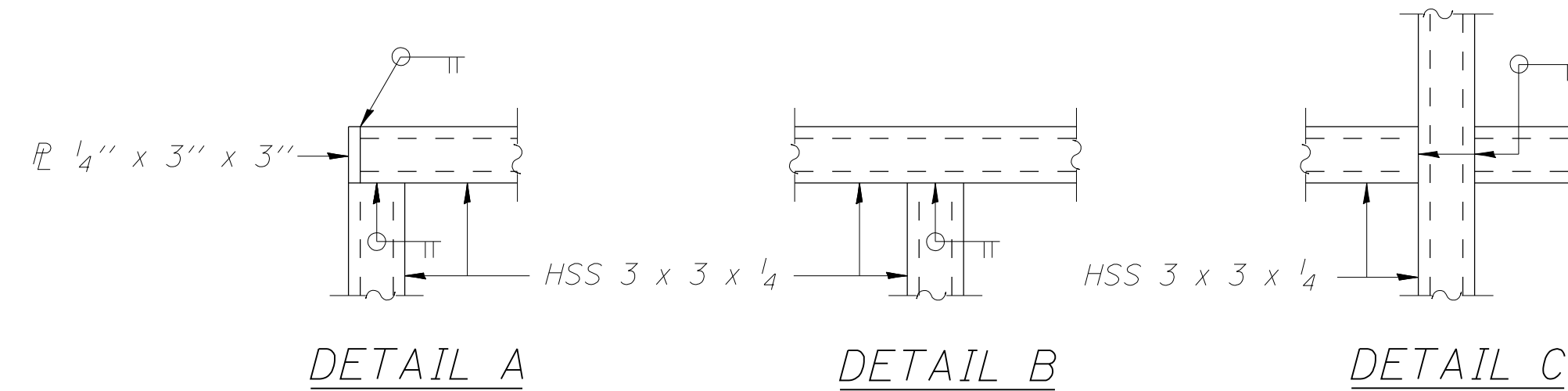
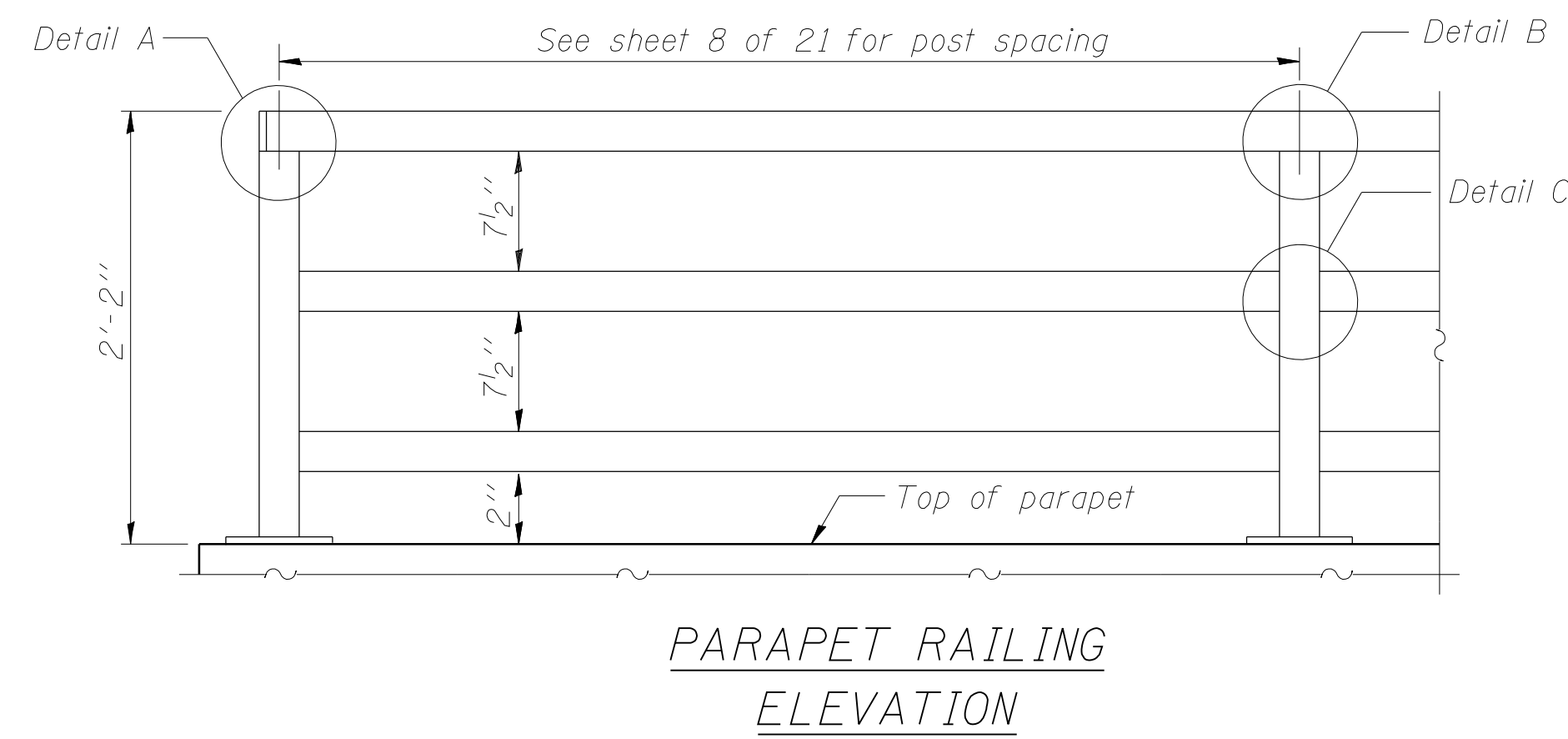
**SECTION A-A**



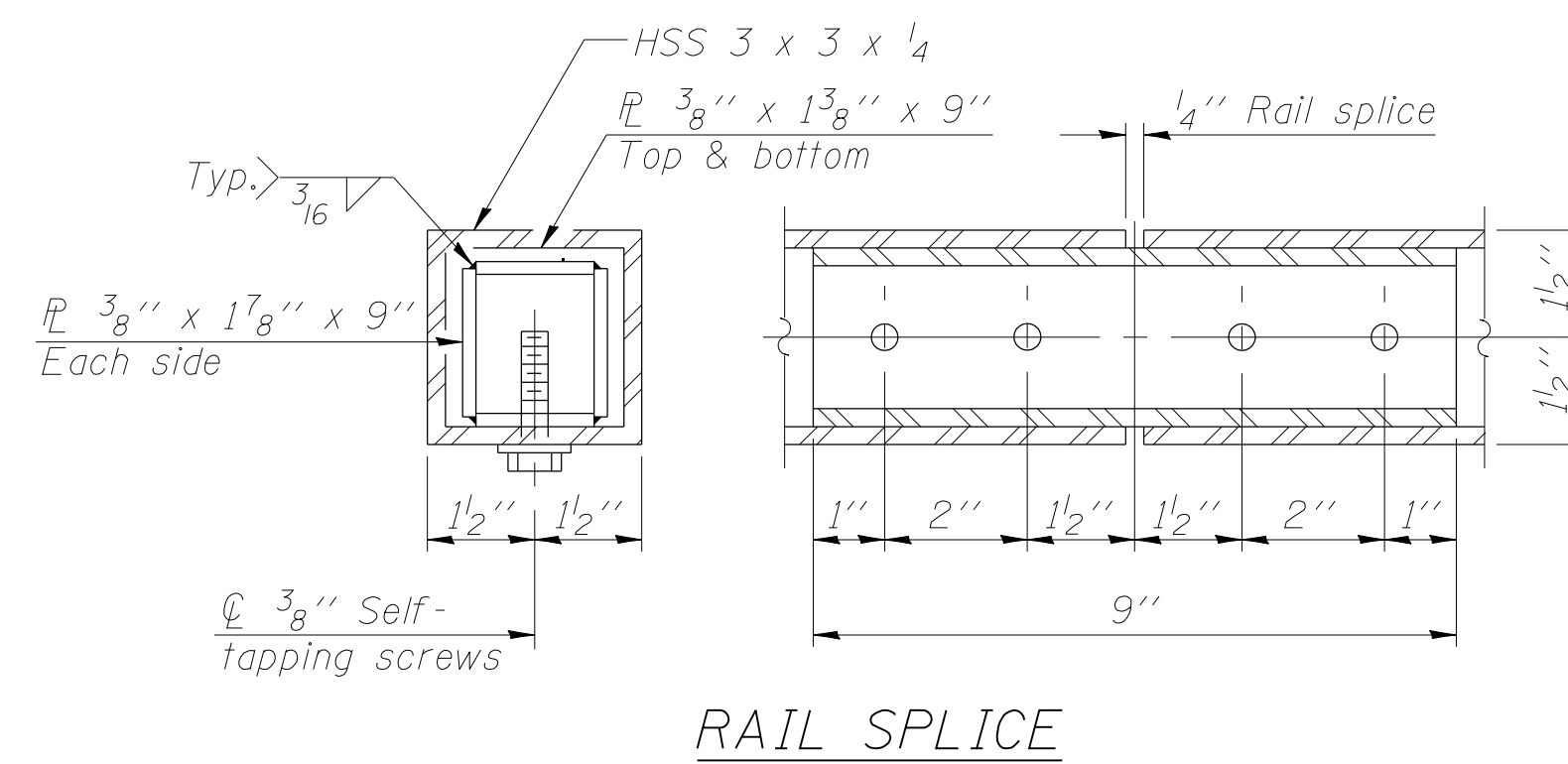
**TOP OF PILE DETAIL**

Notes:  
C.D.W. is the cofferdam design water elevation.  
E.W.S. is the estimated water surface elevation.





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



**NOTES**

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

**BILL OF MATERIAL**

Item	Unit	Quantity
Parapet Railing	Foot	81

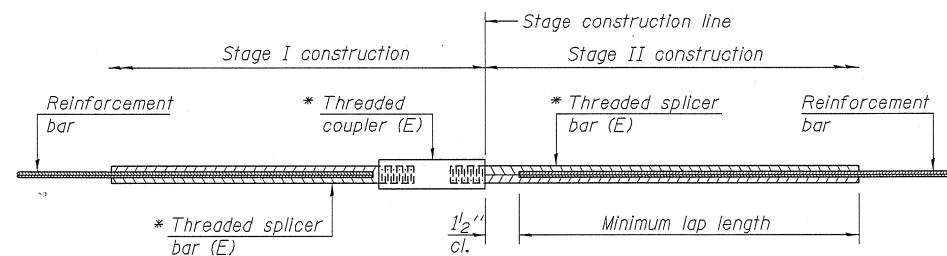
FILE NAME = 0930026-74220-15-PrptRail.dgn	USER NAME = RJT	DESIGNED - ELH 09/10	REVISIONS -
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	PLOT DATE = 12/15/2011 1:37:45 PM	CHECKED - ELH 08/11	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PARAPET RAILING  
STRUCTURE NO. 093-0026**

SHEET NO. 15 OF 21 SHEETS

F.A.P. RTE. 332	SECTION (103B)B-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 30
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74220	



**STANDARD BAR SPLICER ASSEMBLY**

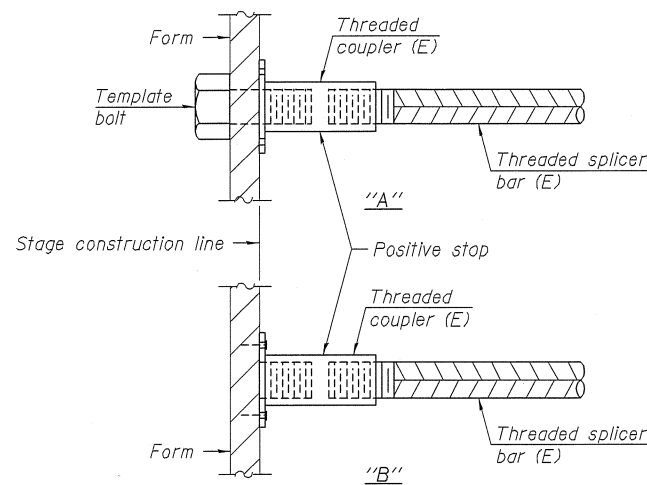
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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

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

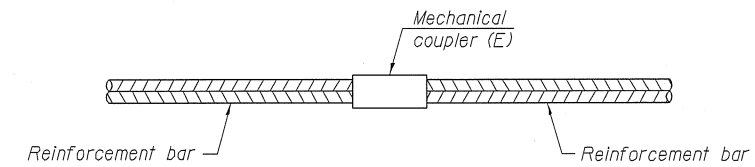
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
NA			



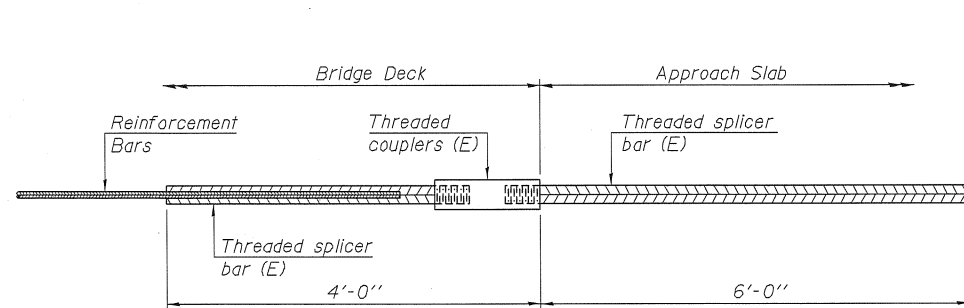
**INSTALLATION AND SETTING METHODS**

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



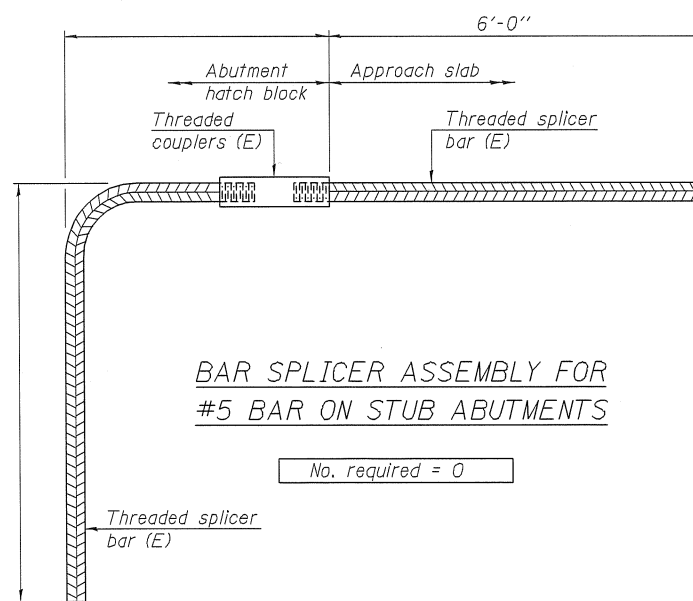
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required
Pier 1	#5	28
Pier 2	#5	28



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required = 0

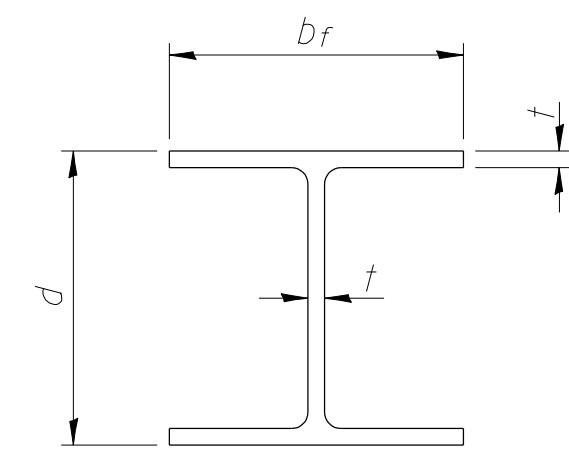


**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required = 0

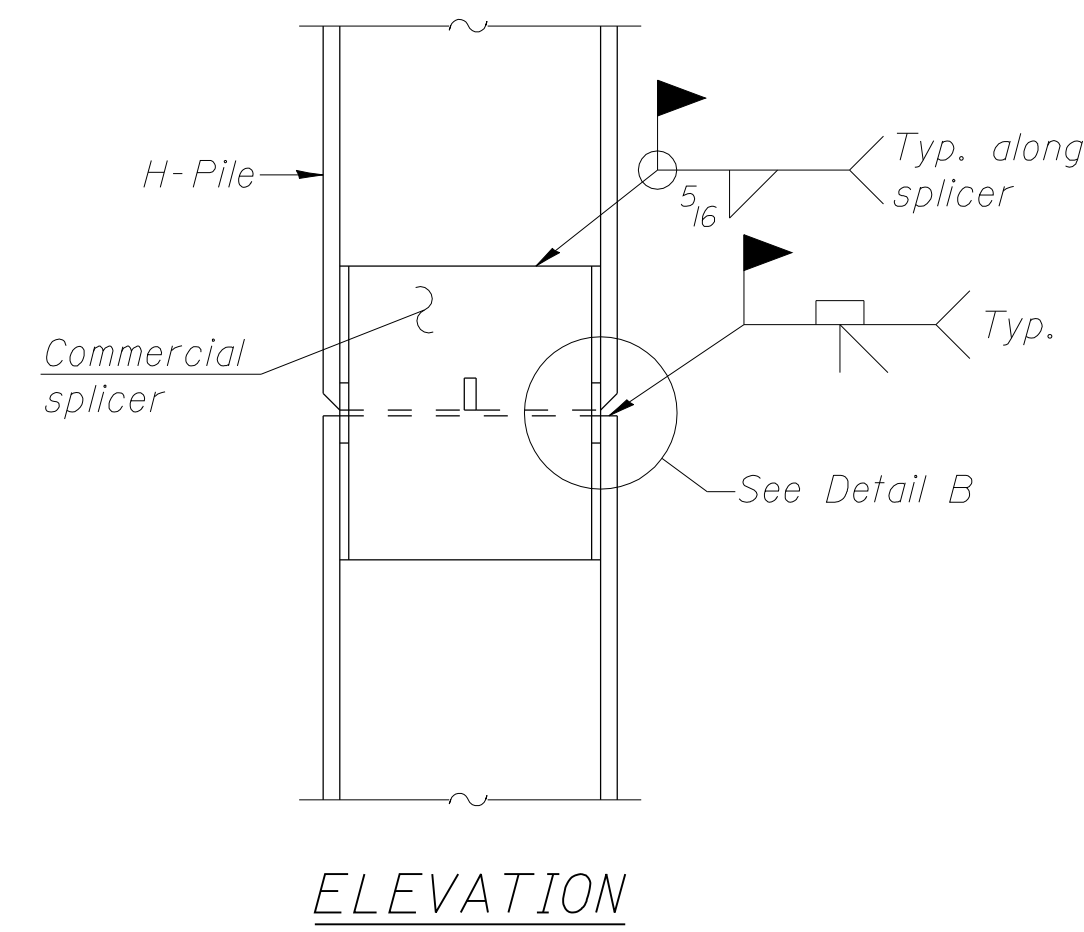
**NOTES**

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

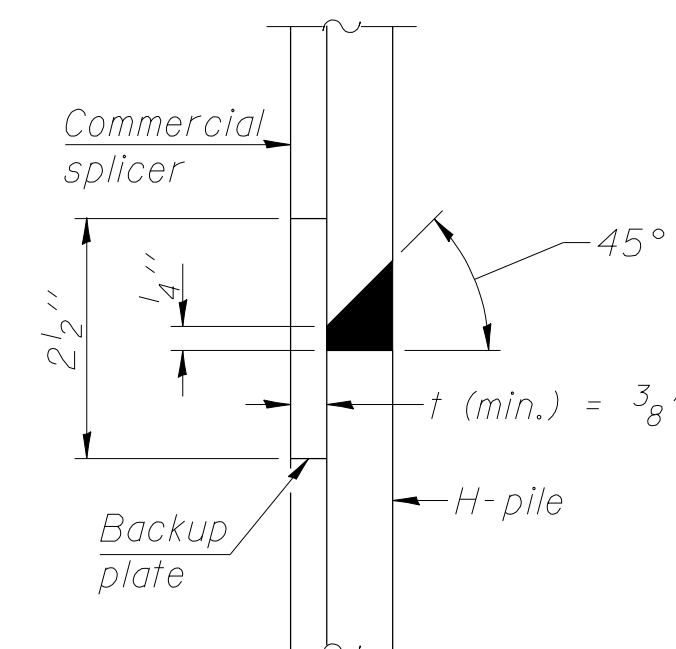


**STEEL PILE TABLE**

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

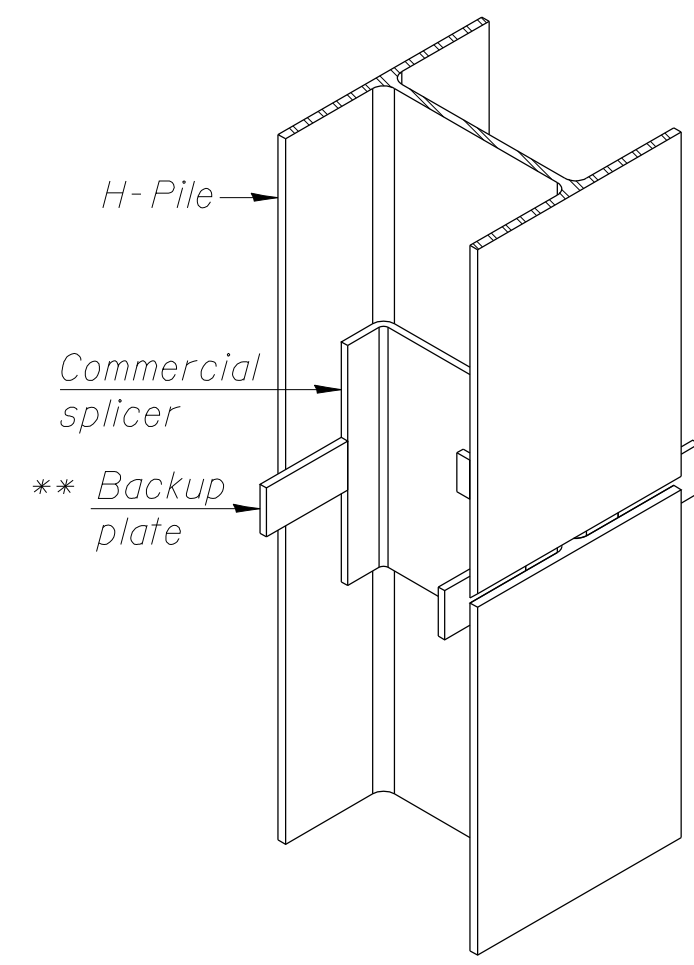


**ELEVATION**

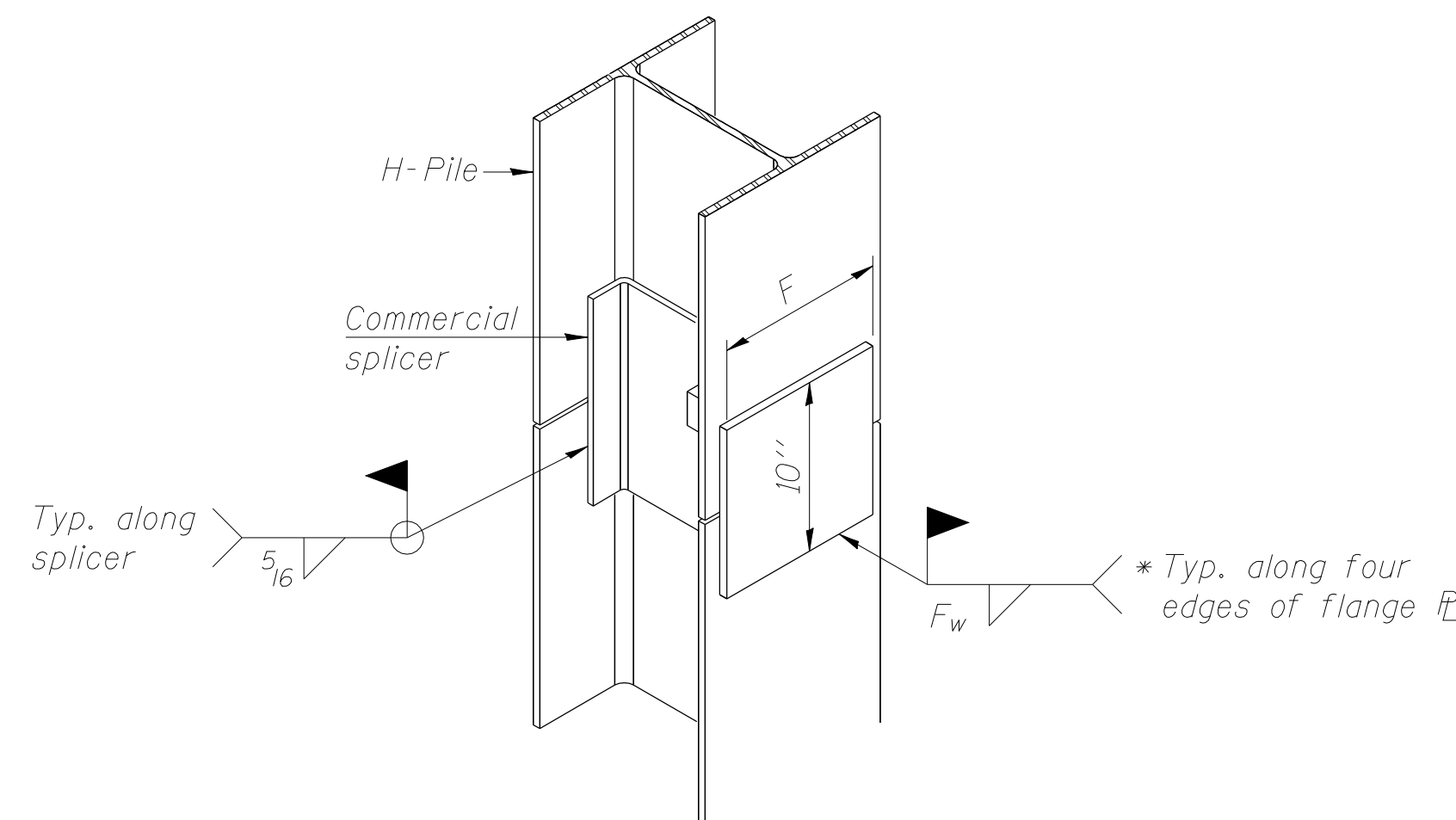


**DETAIL "B"**

**WELDED COMMERCIAL SPLICE**



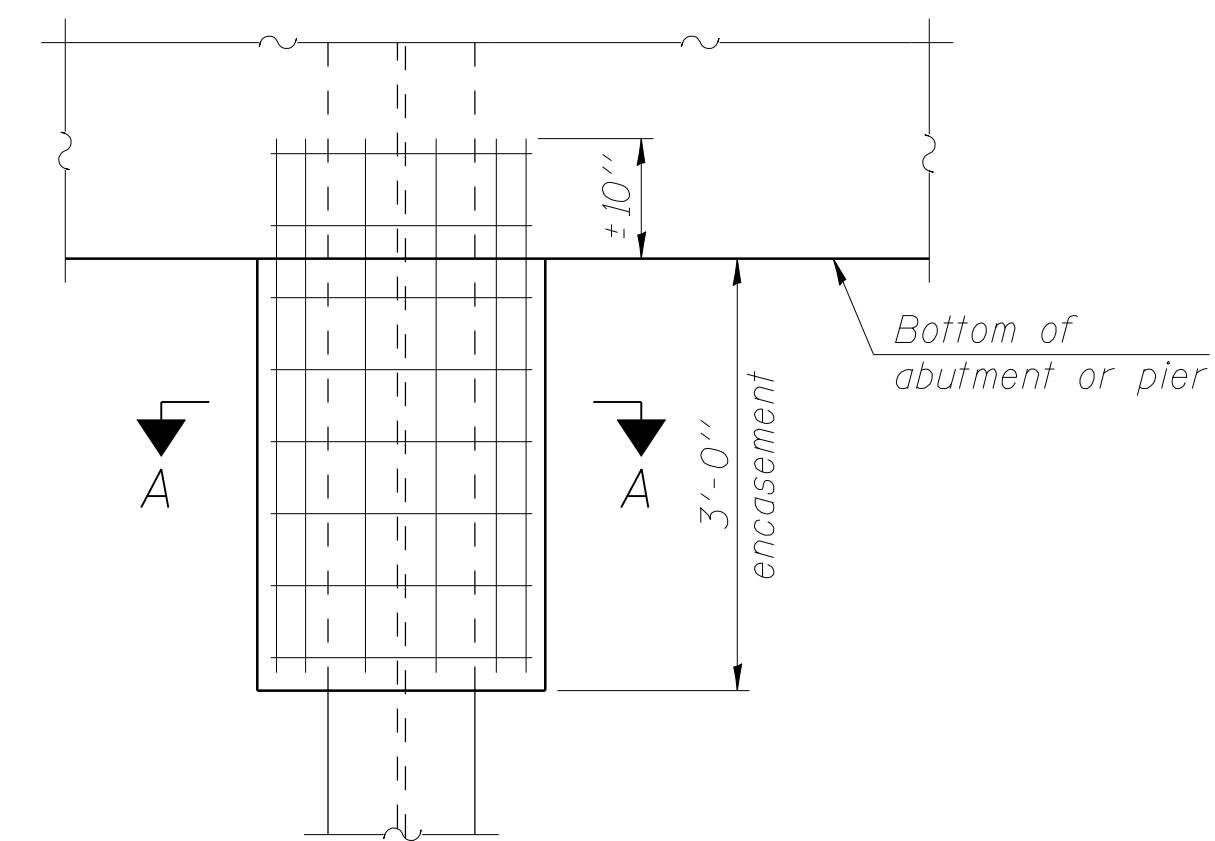
**ISOMETRIC VIEW**



**ISOMETRIC VIEW**

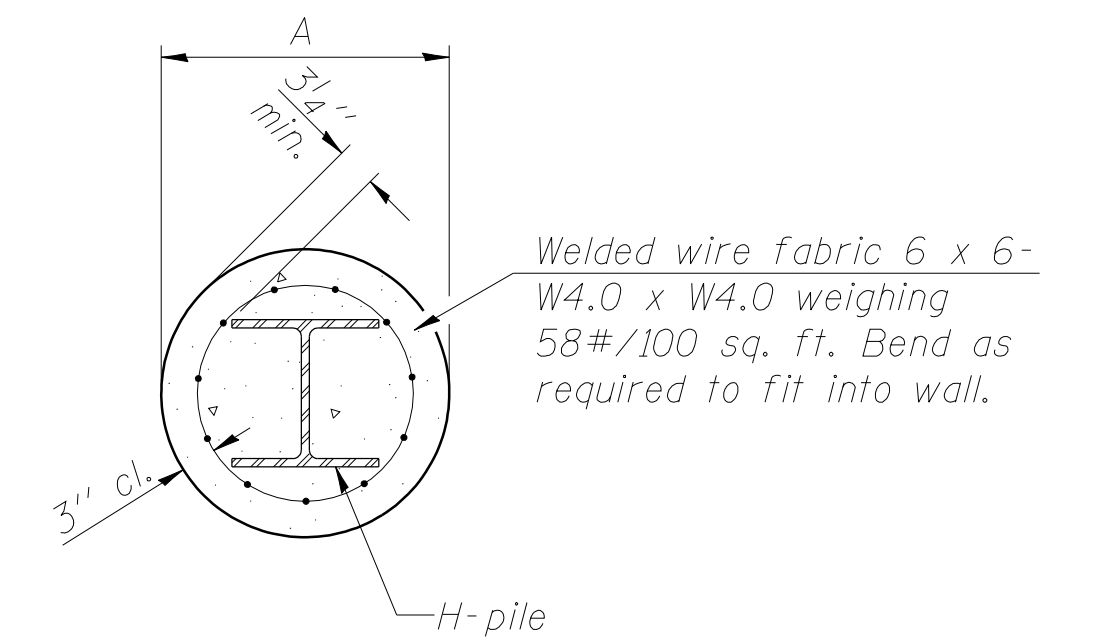
**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



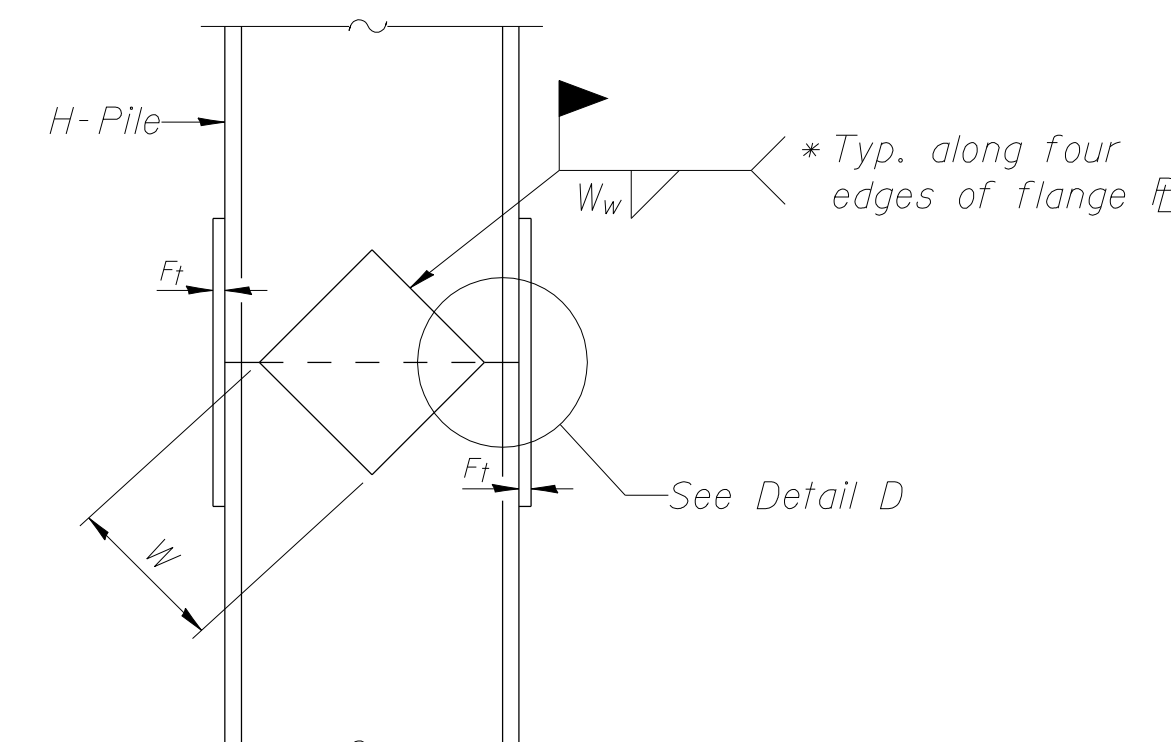
**ELEVATION**

**PILE ENCASEMENT**

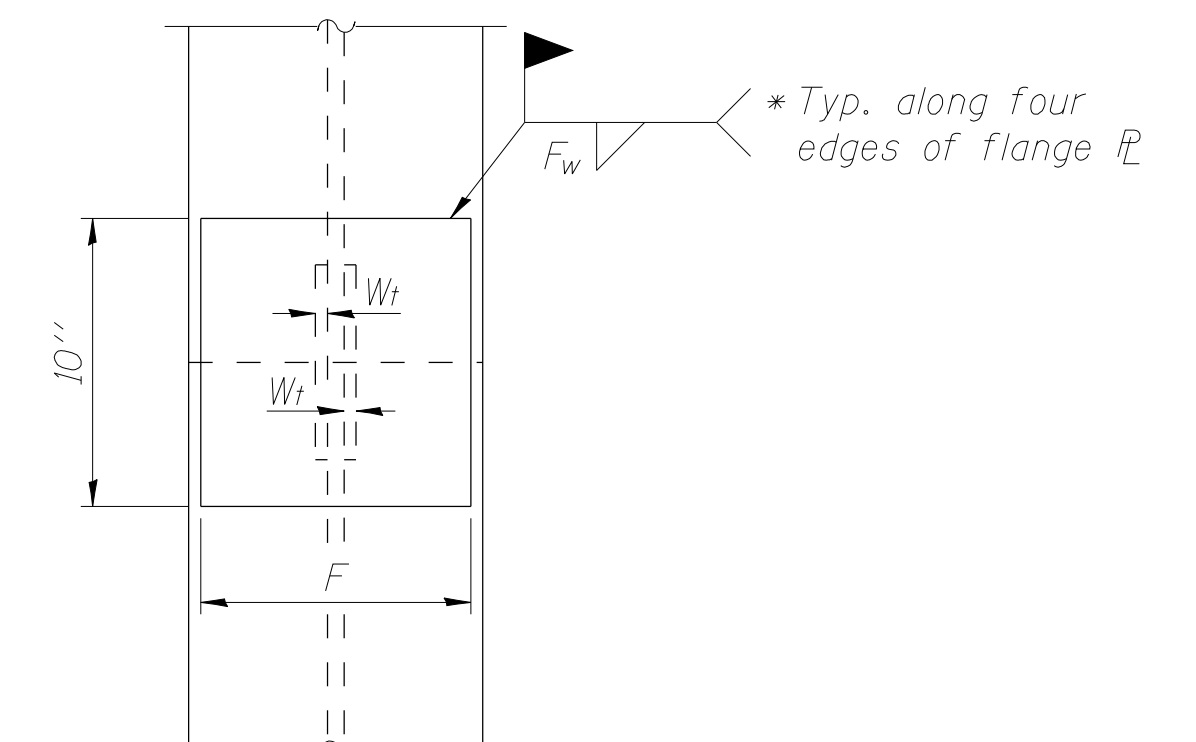


**SECTION A-A**

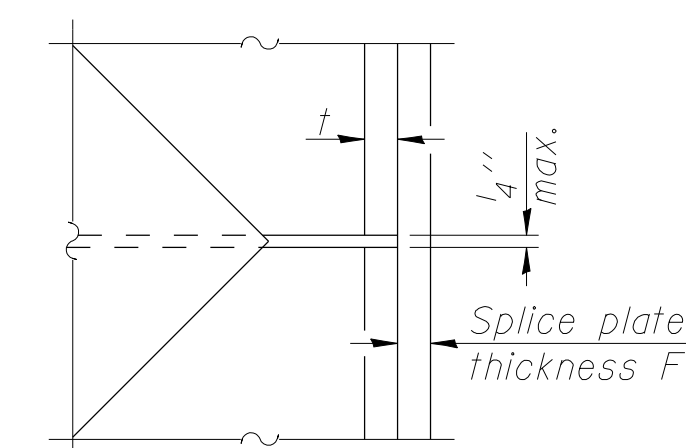
Note:  
Forms for encasement may be omitted when soil conditions permit.



**ELEVATION**



**END VIEW**



**DETAIL D**

**WELDED PLATE FIELD SPLICE**

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 <sup>1</sup> / <sub>2</sub> "	1"	7 <sup>7</sup> / <sub>8</sub> "	7 <sup>3</sup> / <sub>4</sub> "	5 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "
x102	12 <sup>1</sup> / <sub>2</sub> "	7 <sup>7</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>4</sub> "	7 <sup>3</sup> / <sub>4</sub> "	5 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "
x89	12 <sup>1</sup> / <sub>2</sub> "	3 <sup>3</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>16</sub> "	7 <sup>3</sup> / <sub>4</sub> "	5 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "
x73	12 <sup>1</sup> / <sub>2</sub> "	5 <sup>5</sup> / <sub>8</sub> "	9 <sup>9</sup> / <sub>16</sub> "	7 <sup>3</sup> / <sub>4</sub> "	5 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "
HP 12x84	10"	7 <sup>7</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>16</sub> "	6 <sup>1</sup> / <sub>2</sub> "	5 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "
x74	10"	7 <sup>7</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>16</sub> "	6 <sup>1</sup> / <sub>2</sub> "	5 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "
x63	10"	5 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	6 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>2</sub> "	3 <sup>3</sup> / <sub>8</sub> "
x53	10"	5 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	6 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>2</sub> "	3 <sup>3</sup> / <sub>8</sub> "
HP 10x57	8"	3 <sup>3</sup> / <sub>4</sub> "	9 <sup>9</sup> / <sub>16</sub> "	5 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub> "	3 <sup>3</sup> / <sub>8</sub> "
x42	8"	5 <sup>5</sup> / <sub>8</sub> "	9 <sup>9</sup> / <sub>16</sub> "	5 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub> "	3 <sup>3</sup> / <sub>8</sub> "
HP 8x36	7"	5 <sup>5</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub> "	3 <sup>3</sup> / <sub>8</sub> "

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

F-HP 7-1-10

FILE NAME = 0930026-74220-17-HPD.t.dgn	USER NAME = RJT	DESIGNED - ELH 09/10	REVISED -
	ESCA JOB NO. 933.12	CHECKED - MJW/RDP 09/10	REVISED -
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	PLOT DATE = 12/15/2011 1:39:31 PM	CHECKED - ELH 08/11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS  
STRUCTURE NO. 093-0026**

SHEET NO. 17 OF 21 SHEETS

F.A.P. RTE. 332	SECTION (103B)B-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 32
CONTRACT NO. 74220			ILLINOIS FED. AID PROJECT	



Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 4

Date 10/17/08

ROUTE FAP 332 (IL 1) DESCRIPTION Greathouse Creek at SW edge of Mt. Carmel LOGGED BY E. Sandschafer  
SECTION (103B)B-1 LOCATION NE 1/4, SEC. 30, TWP. 1 S, RNG. 12 W, 3 PM  
COUNTY Wabash DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	(ft)	(ft)	(/6")	(tsf)	(%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After 72 Hrs.	(ft)	(/6")	(tsf)	(%)
093-0008	850+32	1 S Abut	850+52	15.50ft Lt	403.94						388.20	385.46		369.4	387.4	391.9				
						403.44					6" mixture of aggregate and Clay shoulder.									
											Brown, SILTY LOAM.									
						401.94														
								24			Stiff, damp, brown, SILTY CLAY LOAM.									
								45	1.1	14										
								15	S											
								-5	4											
								7	2.0	19										
								6	S											
						396.94					Stiff, damp, brown/red/gray, SILTY CLAY.									
								2												
								4	1.2	19										
								5	B											
								-10	3											
								4	1.2	21										
								5	B											
						391.64					Soft, very damp, brown mottled gray, LOAM.									
								1												
								2	0.3	23										
								1	B											
						389.44					Hard, damp, red/gray/brown, SILTY CLAY.									
								2												
								4	4.9	31										
								7	B											
								3												
								5	2.8	22										
								7	B											
						383.94		-20	3		10% passing #200 sieve.									

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



Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 4

Date 10/17/08

ROUTE FAP 332 (IL 1) DESCRIPTION Greathouse Creek at SW edge of Mt. Carmel LOGGED BY E. Sandschafer  
SECTION (103B)B-1 LOCATION NE 1/4, SEC. 30, TWP. 1 S, RNG. 12 W, 3 PM  
COUNTY Wabash DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	(ft)	(ft)	(/6")	(tsf)	(%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After 72 Hrs.	(ft)	(/6")	(tsf)	(%)	
093-0008	850+32	1 S Abut	850+52	15.50ft Lt	403.94						388.20	385.46		369.4	387.4	391.9					
											Medium, damp, gray, SANDY LOAM.										
									2	0.8	24										
								4	B												
						359.44					Medium, wet, gray, fine grained, SAND. 11% passing #200 sieve.										
									2												
								-45	3												
								7		15											
								4													
						354.44					Very stiff, damp, gray, SANDY CLAY.										
									6												
								-50	7	2.7	20										
								9	B												
						344.44		-60	20		10% passing #200 sieve.										

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

FILE NAME = 0930026-74220-18-Soil.dgn	USER NAME = RJT	DESIGNED - ELH 09/10	REVISED -
	ESCA JOB NO. 933.12	CHECKED - MJW/RDP 09/10	REVISED -
	PLOT SCALE = 0:1 ' : / IN.	DRAWN - DWH/KAH 08/11	REVISED -
	PLOT DATE = 12/15/2011 1:40:13 PM	CHECKED - ELH 08/11	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
STRUCTURE NO. 093-0026

SHEET NO. 18 OF 21 SHEETS

F.A.P. RTE. 332	SECTION (103B)B-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 33
			CONTRACT NO. 74220	
ILLINOIS FED. AID PROJECT				



**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

### SOIL BORING LOG

Page 3 of 4

Date 10/17/08

ROUTE FAP 332 (IL 1) DESCRIPTION Greathouse Creek at SW edge of Mt. Carmel LOGGED BY E. Sandschafer

SECTION (103B)B-1 LOCATION NE 1/4, SEC. 30, TWP. 1 S, RNG. 12 W, 3 PM

COUNTY Wabash DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 093-0008  
Station 850+32

BORING NO. 1 S Abut  
Station 850+52  
Offset 15.50ft Lt  
Ground Surface Elev. 403.94 ft

Surface Water Elev. 388.20 ft  
Stream Bed Elev. 385.46 ft

Groundwater Elev.:  
First Encounter 369.4 ft  
Upon Completion 387.4 ft  
After 72 Hrs. 391.9 ft

DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	SPT (blows)
14	Very stiff, damp, gray, SILTY CLAY SHALE. (continued)	3.1	16
13			
7	Borehole continued with rock coring.		
50/4"			
50/2"			
50/1"			
-90			
-95			
-100			

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

Latitude N 87 deg 46' 759" min, Longitude W 88 deg 24' 100" min, Mgr Datum WGS 84



**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

### ROCK CORE LOG

Page 4 of 4

Date 10/17/08

ROUTE FAP 332 (IL 1) DESCRIPTION Greathouse Creek at SW edge of Mt. Carmel LOGGED BY E. Sandschafer

SECTION (103B)B-1 LOCATION NE 1/4, SEC. 30, TWP. 1 S, RNG. 12 W, 3 PM

COUNTY Wabash CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 093-0008  
Station 850+32

BORING NO. 1 S Abut  
Station 850+52  
Offset 15.50ft Lt  
Ground Surface Elev. 403.94 ft

CORING BARREL TYPE & SIZE: NVW, conv dbl bbl, split inner

Core Diameter 2.06 in  
Top of Rock Elev. 324.44 ft  
Begin Core Elev. 318.94 ft

DEPTH (ft)	SOIL DESCRIPTION	RECOVER (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
318.94	Gray, slightly to moderately weathered, SILTY CLAY SHALE w/ several layers severely weathered.	83	49	1.5	
	Rock core B1C1 from 86.8' to 87.2' depth Qu = 30.6 tsf.				
	Thin, black, Coal layer at 88.1' depth.				
313.94	Gray, moderately weathered, SILTY CLAY SHALE.	94	67	1.6	
	Rock core B1C2 from 92.3' to 92.9' depth Qu = 54.2 tsf.				
	Thin, Limestone layer at 93.9' depth.				
308.94	Extent of exploration.				
	Benchmark: BM 539 Chiseled square on NE corner of SE wingwall of existing structure, Sta 851+06, 22' Rt = 405.51' elevation. Provided by Program Development.				
-100					
-105					

Color pictures of the cores Available on request  
Cores will be stored for examination until 10/17/09  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)

FILE NAME = 0930026-74220-19-Soil.dgn	USER NAME = RJT	DESIGNED - ELH 01/11	REVISED -
	ESCA JOB NO. 933.12	CHECKED - MJW/RDP 01/11	REVISED -
	PLOT SCALE = 0:1' / IN.	DRAWN - HAS 08/11	REVISED -
	PLOT DATE = 12/15/2011 1:40:49 PM	CHECKED - ELH 08/11	REVISED -

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

**BORING LOGS**  
**STRUCTURE NO. 093-0026**

SHEET NO. 19 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	34
CONTRACT NO. 74220			ILLINOIS FED. AID PROJECT	





**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

**SOIL BORING LOG**

Page 3 of 3

Date 10/20/08

ROUTE FAP 332 (IL 1) DESCRIPTION Greathouse Creek at SW edge of Mt. Carmel LOGGED BY E. Sandschafer

SECTION (103B)B-1 LOCATION NE 1/4, SEC. 30, TWP. 1 S, RNG. 12 W, 3 PM

COUNTY Wabash DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 093-0008  
Station 850+32

BORING NO. 2 N Abut  
Station 851+20  
Offset 13.00ft Rt  
Ground Surface Elev. 402.78 ft

D  
E  
P  
T  
H  
  
(ft)  
  
(/6")  
  
(tsf)  
  
(%)

B  
L  
O  
C  
K  
S  
  
Qu

U  
C  
S

M  
O  
I  
S  
T

6

Surface Water Elev. 388.20 ft  
Stream Bed Elev. 385.46 ft  
  
Groundwater Elev.:  
First Encounter 363.3 ft  
Upon Completion 388.9 ft  
After 96 Hrs. 396.8 ft

Very dense, moist, gray, SILTY CLAY SHALE. Very hard drilling. (continued)

Extent of exploration.

Benchmark: BM 539 Chiseled square on NE corner of SE wingwall of existing structure, Sta 851+06, 22' Rt = 405.51' elevation. Provided by Program Development.

Latitude N 67 46.4742 min. Longitude N 38 46.24191 min. Mgr. Datum WGS 84

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

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	PLOT DATE = 12/15/2011 1:42:12 PM	CHECKED - ELH 08/11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS  
STRUCTURE NO. 093-0026**

SHEET NO. 21 OF 21 SHEETS

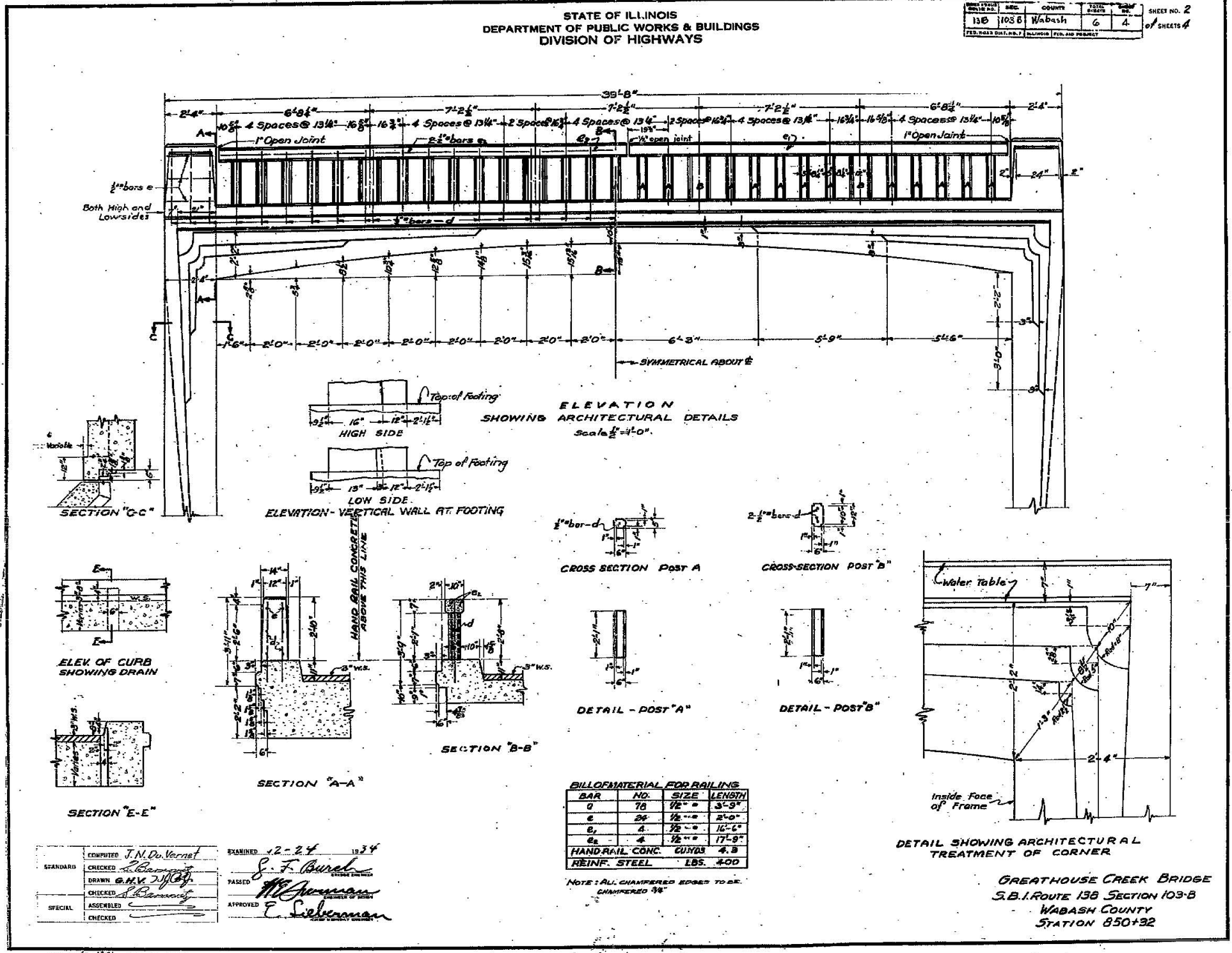
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74220	





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

PROJECT NO.	13B 103B	COUNTY	Wabash	TOTAL SHEETS	6	SHEET NO.	2
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT				OF SHEETS	4



**BILL OF MATERIAL FOR RAILING**

BAR	NO.	SIZE	LENGTH
G	76	1/2" - 6	3'-3"
E	24	1/2" - 6	2'-0"
B <sub>1</sub>	4	1/2" - 6	16'-6"
B <sub>2</sub>	4	1/2" - 6	17'-9"

HAND RAIL CONC. CUNDS 4.8  
REINF. STEEL LBS. 400

NOTE: ALL CHAMFERED EDGES TO BE CHAMFERED 3/8"

COMPUTED J. N. DuVernest  
CHECKED E. Siebermann  
DRAWN G. H. V. J. J. J.  
CHECKED E. Siebermann  
ASSEMBLED  
CHECKED

EXAMINED 12-24 1934  
G. F. Burch  
PARSED E. Siebermann  
APPROVED E. Siebermann

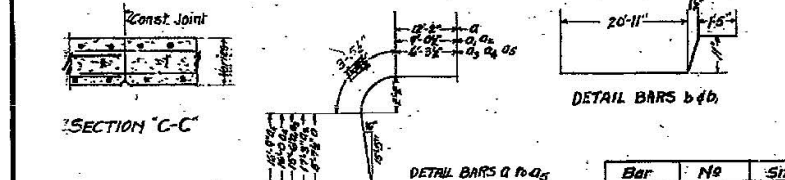
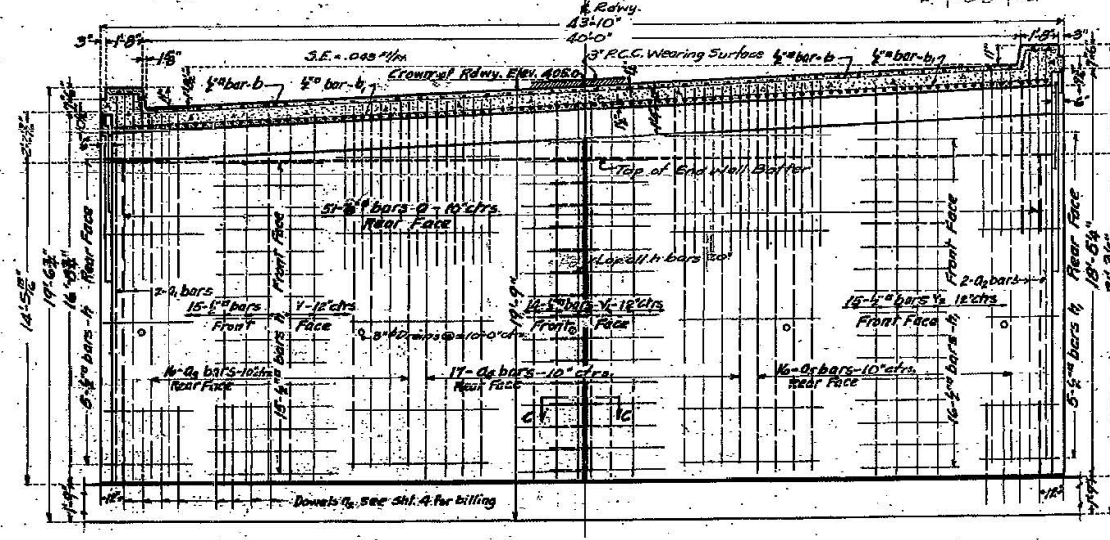
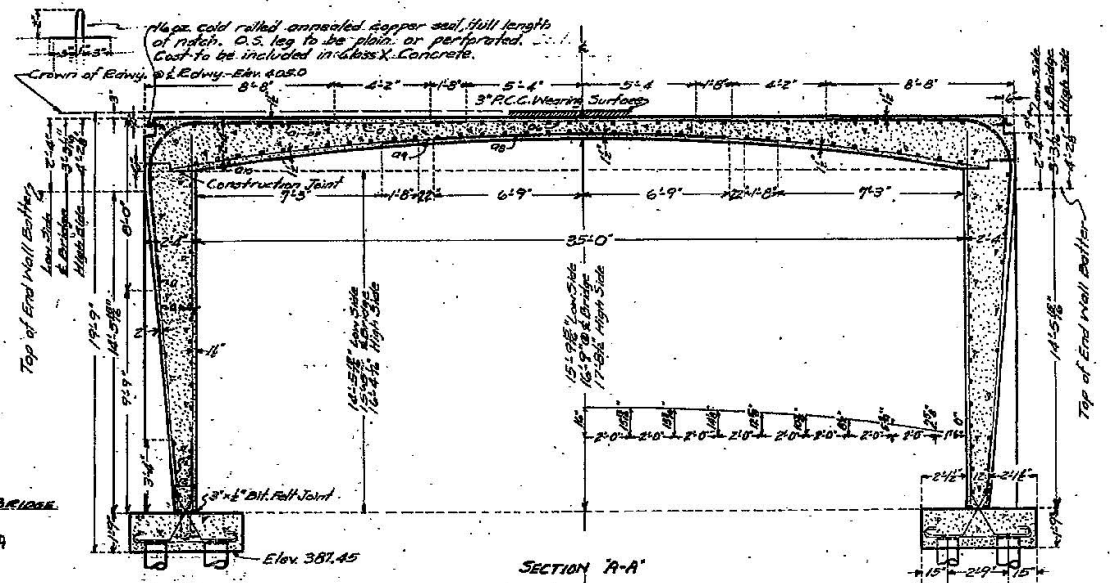
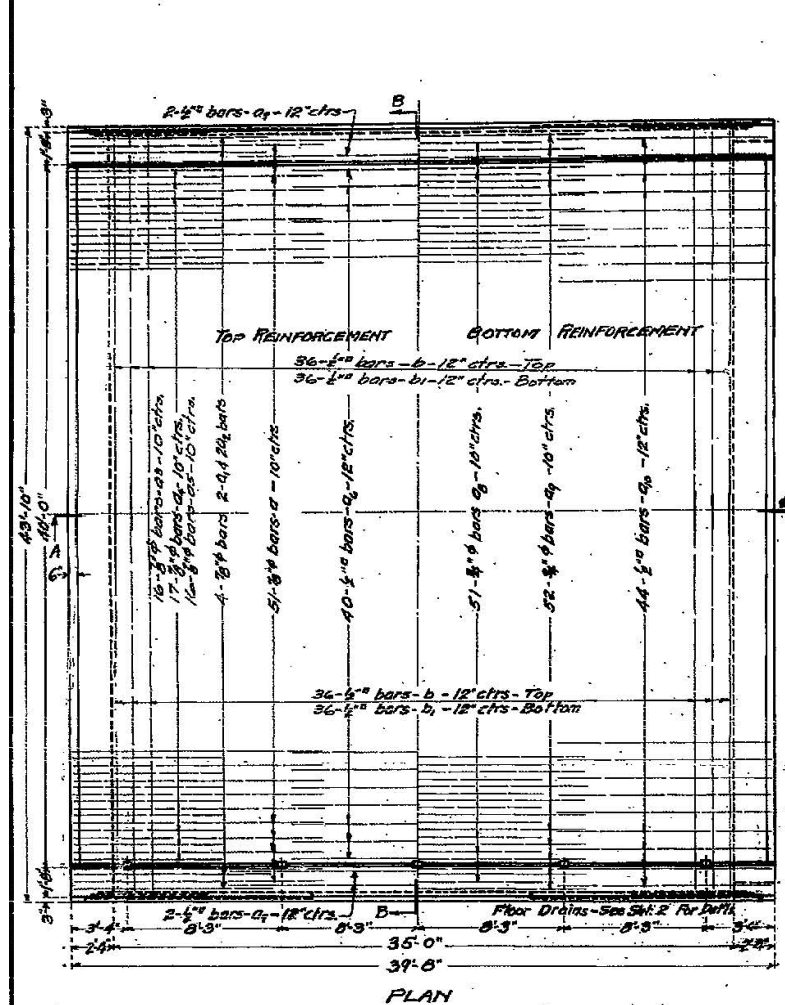
Revised (red B) 1-17-35 T.R.B.

GREATHOUSE CREEK BRIDGE  
S.B.I. ROUTE 138 SECTION 103-B  
WABASH COUNTY  
STATION 850+32

B.M. - Mark 'X' on top of S.W. Corner of west Headwall  
 Lt. Sta. 850+75. Elev. 402.24  
 Existing Structure - P.C. Slab, Span 28' on g. Rdwy. 24' to  
 be removed by Contractor for Sect. 103-B.

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

PROJECT NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
198 103B	Wabash	6	5	4 SHEETS



**BILL OF MATERIAL**

Bar	No	Size	Length
a	102	6"	21'3"
b	4	6"	26'0"
c	4	6"	29'9"
d	32	6"	25'3"
e	34	6"	25'9"
f	32	6"	26'6"
g	40	6"	19'0"
h	4	6"	20'0"
i	51	6"	19'5"
j	52	6"	20'0"
k	88	6"	10'0"

Bar	No	Size	Length
l	72	6"	23'5"
m	72	6"	22'6"
n	30	6"	16'9"
o	20	6"	17'5"
p	30	6"	17'9"
q	40	6"	21'9"
r	42	6"	28'6"

Class X Concrete Cu Yds 187.5  
 Reinforcing Steel Lbs. 17,680

Notes:  
 Class X Concrete to be used throughout.  
 Reinforcing steel shall be wired securely  
 in place before concrete is poured.

S.B.L. ROUTE 198 SECTION 103-B  
 WABASH COUNTY  
 STA. 850+32

DESIGNED	J.N. Du Vernet
CHECKED	J.N. Du Vernet
DRAWN	S.B. J.N. Du Vernet
CHECKED	J.N. Du Vernet
ASSEMBLED	
CHECKED	

EXAMINED 12.24.12  
 P. F. Burch  
 APPROVED E. Sieberman

FILE NAME =	USER NAME = RJT	DESIGNED - MTM	REVISED -
Y:\NIDOT\933-12.74220\CLIENT\Final (111215)	CADD\Highway\CADD Sheets\0774220-sht-existing	DRAWN - JJS	REVISED -
PLOT SCALE = 100.0000' / IN.	CHECKED - MTM	REVISED -	REVISED -
PLOT DATE = 12/15/2011	DATE - SEPTEMBER 2011	REVISED -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

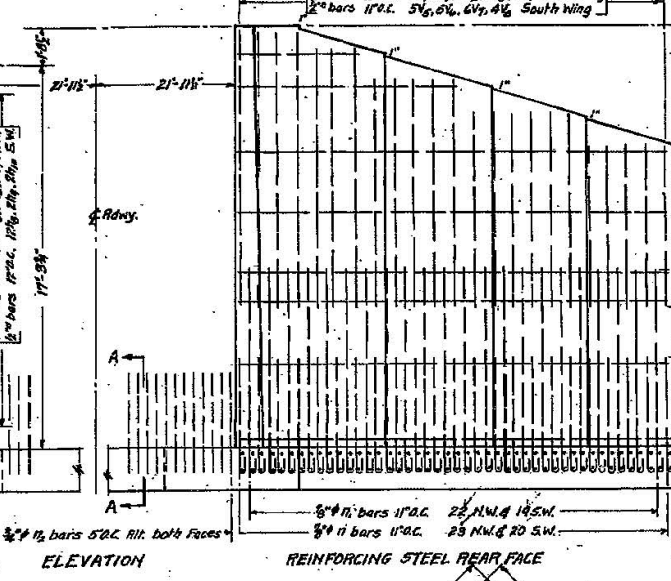
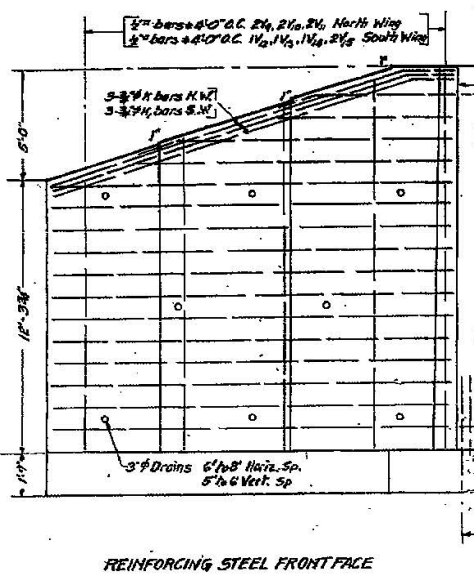
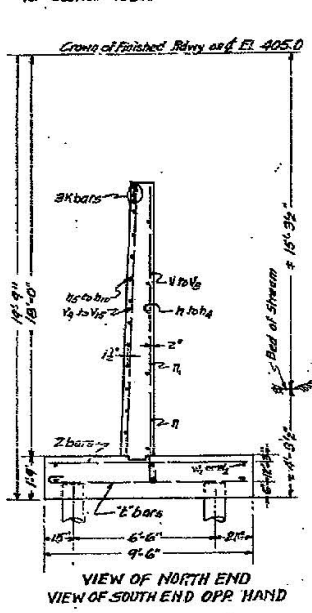
SCALE: N.T.S. SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)-1	WABASH	53	39
CONTRACT NO. 74220				
ILLINOIS FED. AID PROJECT				

B.M.: Mark(X) on top of S.W. Corner of West Headwall is Sta. 850+35 Elev. 402.24. Existing Structure: RC Slab, 28'-0" Span on 6'-2 1/2" Rwy. to be removed by Contractor for Section 103-B.

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

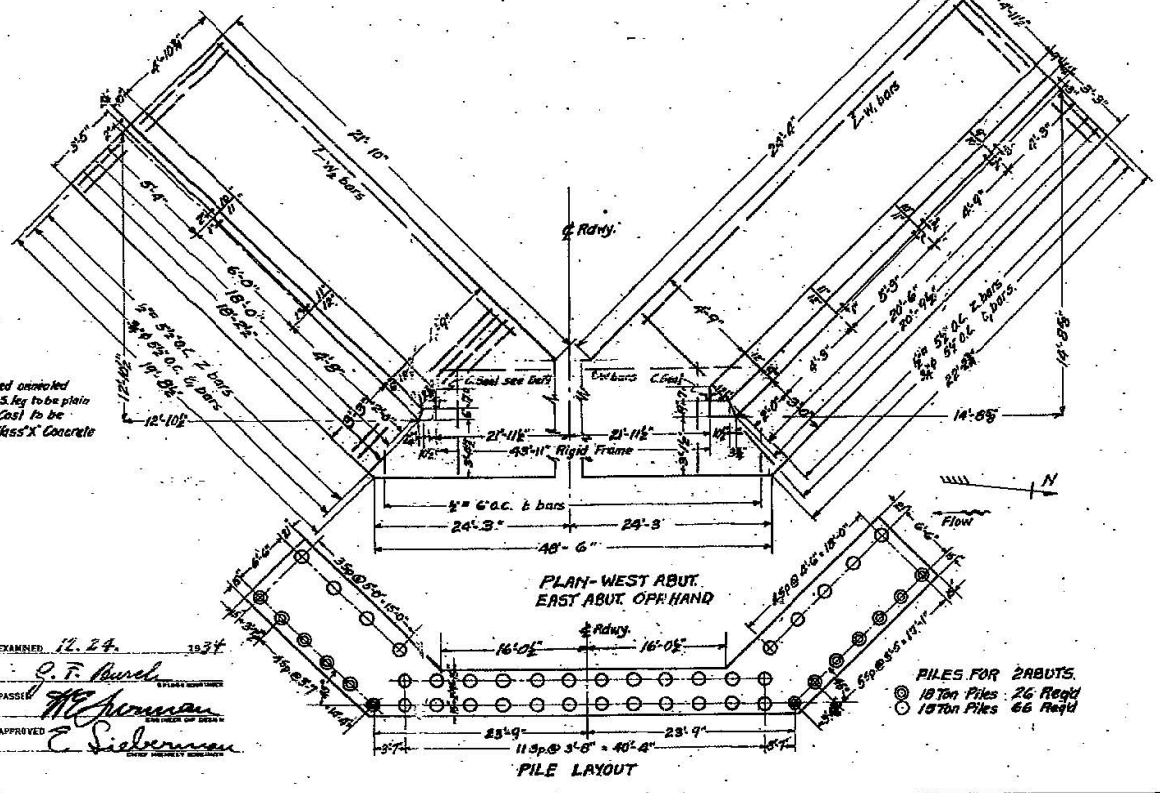
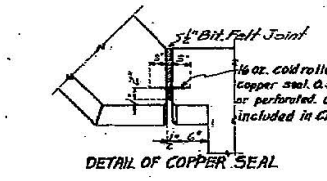
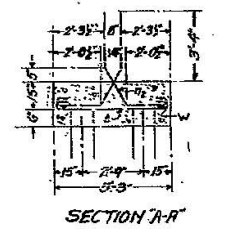
PROJECT NO. 103-B  
COUNTY Wabash  
SHEET NO. 4  
4 SHEETS



BILL OF MATERIAL - 2 ABUTS.

BAR	NR	SIZE	LENGTH
V	10	6"	7'-3"
V	12	"	8'-9"
V	10	"	10'-0"
V	8	"	11'-0"
V	6	"	12'-0"
V	10	"	13'-0"
V	10	"	14'-0"
V	12	"	15'-0"
V	12	"	16'-0"
V	10	"	17'-0"
V	8	"	18'-0"
V	6	"	19'-0"
V	4	"	20'-0"
V	2	"	21'-0"
V	2	"	22'-0"
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V	2	"	99'-0"
V	2	"	100'-0"
H	10	6"	7'-3"
H	12	"	8'-9"
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H	2	"	96'-0"
H	2	"	97'-0"
H	2	"	98'-0"
H	2	"	99'-0"
H	2	"	100'-0"

Class X Concrete Cu.Yds. 136.5  
Reinforcing Steel lbs. 18420  
Unit Piling up to 20ft. Lin.Ft. 1640



COMPUTED	J.N. DuVernet
CHECKED	S. Barnovitz
DRAWN	J.N. DuV.
CHECKED	S. Barnovitz
ASSEMBLED	
CHECKED	

EXAMINED 12.24.1934  
O.F. Burch  
PASSED  
E. Sieberman  
APPROVED

Note: Class X Concrete shall be used throughout. Reinforcing Steel shall be wired securely in place before Concrete is poured.

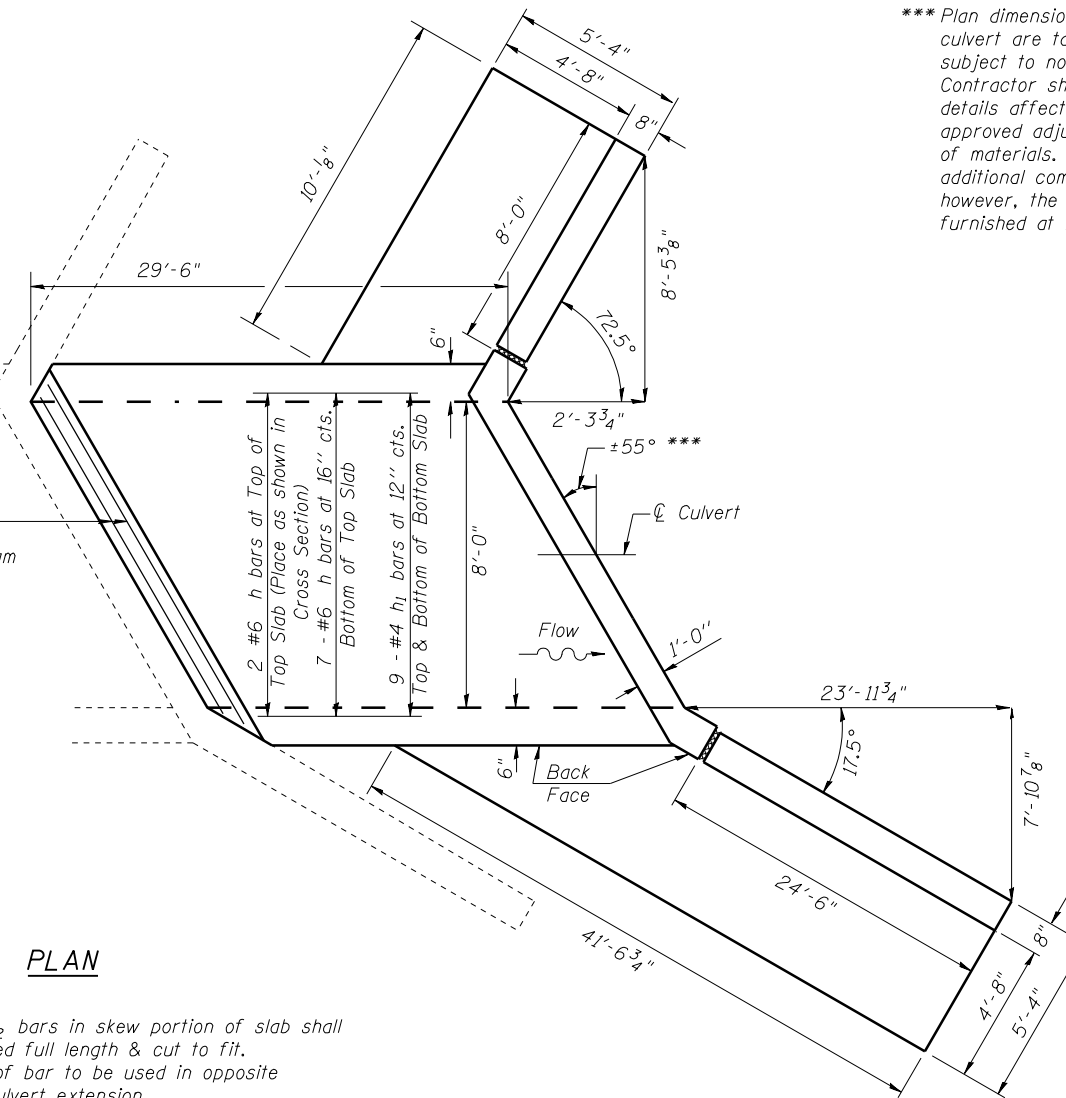
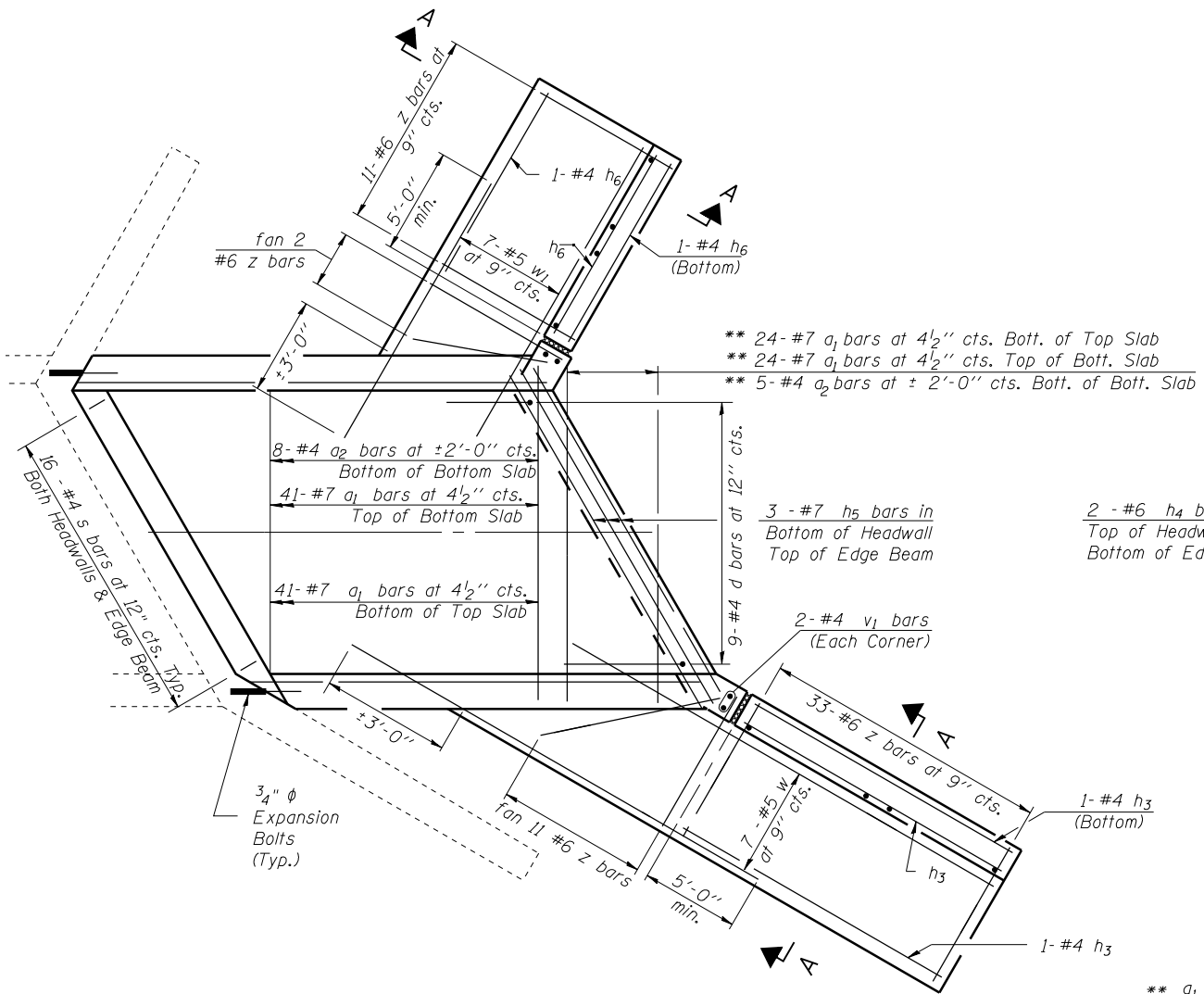
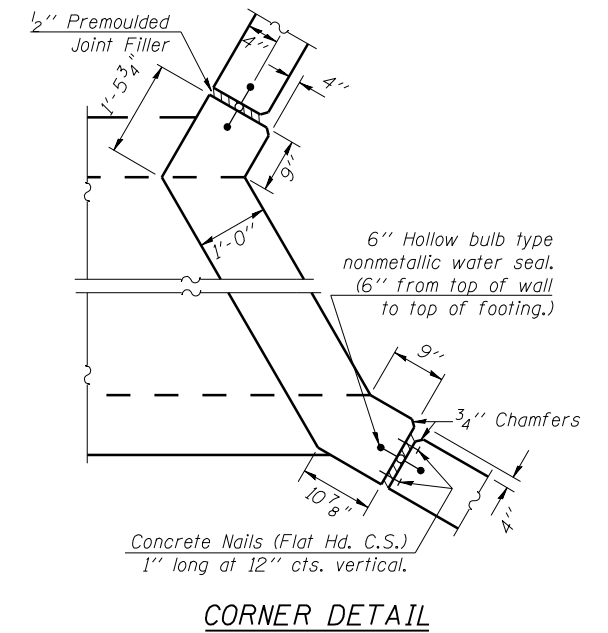
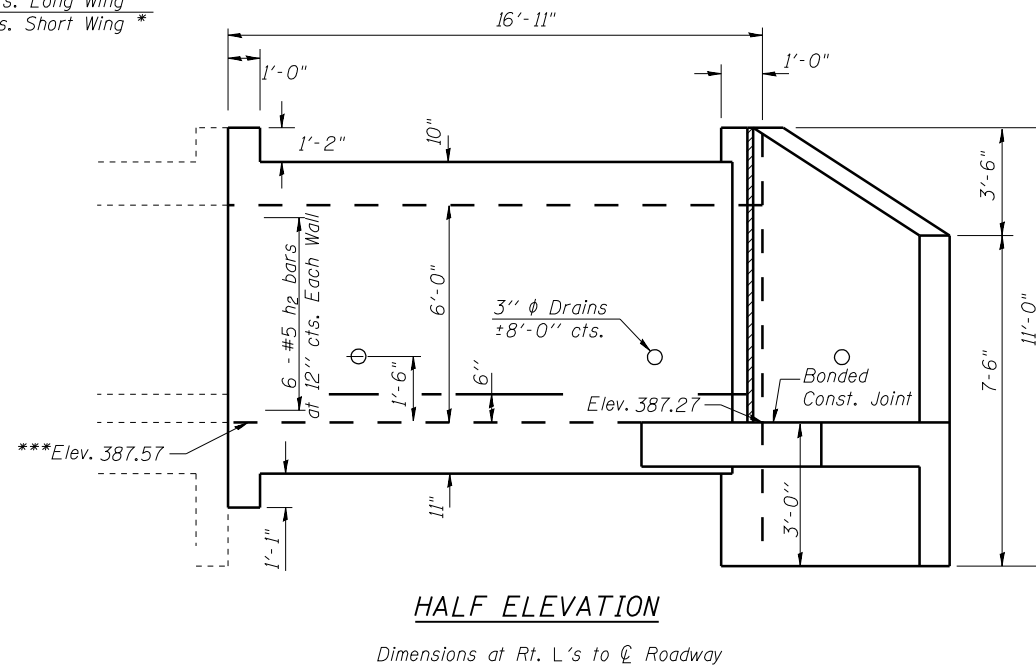
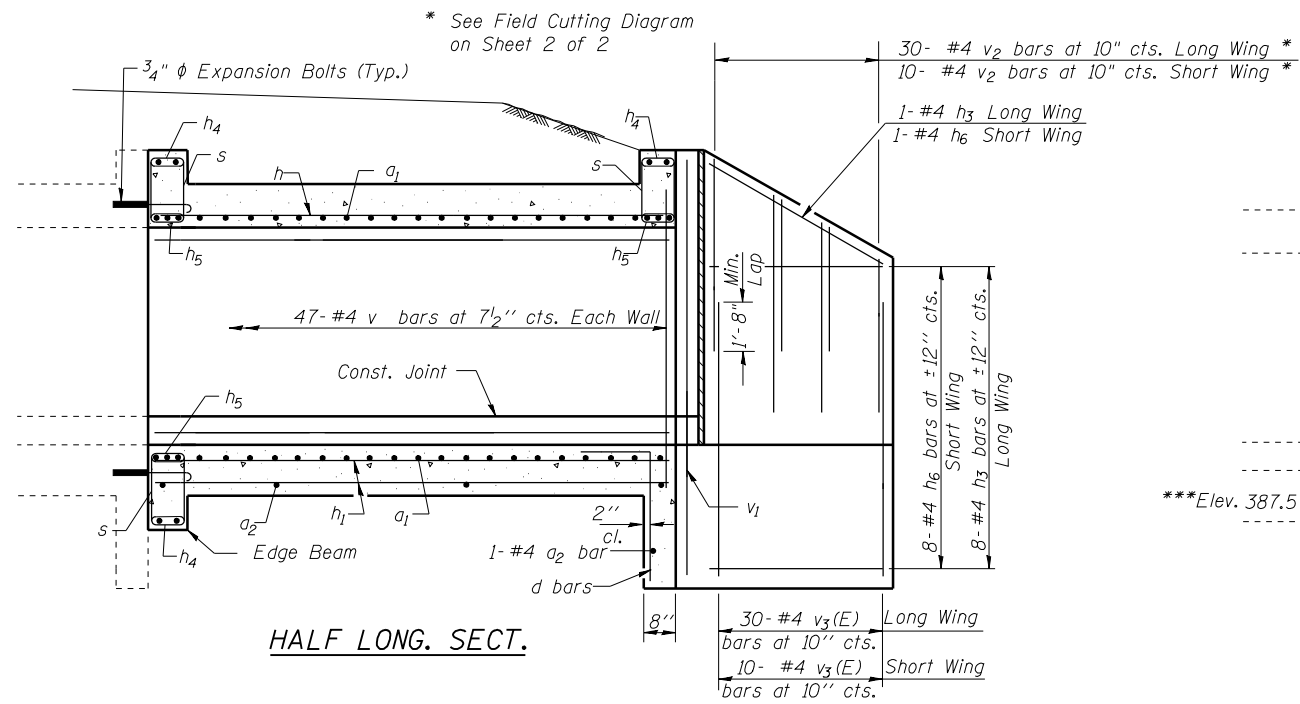
S.B.I. ROUTE 139 SECTION 103-B  
WABASH COUNTY  
STA. 850+32

FILE NAME = Y:\DOT\933-12.74220\CLIENT\Final (111215) CADD\Highway\CADD Sheets\0774220-sht-existing.DRAWN.dgn	USER NAME = RJT	DESIGNED - MTM	REVISED -
PLOT SCALE = 100.0000' / IN.	CHECKED - MTM	REVISIONS -	DATE - SEPTEMBER 2011
PLOT DATE = 12/15/2011	DATE -	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.
---------------	-------------------------	--------------

F.A.P. RTE. 332	SECTION (103B)B-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 40
				CONTRACT NO. 74220
ILLINOIS FED. AID PROJECT				



\*\*\* Plan dimension and details relative to existing box culvert are taken from field measurements and are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

**DESIGN STRESSES**

f<sub>y</sub> = 60,000 psi  
f'<sub>c</sub> = 3,500 psi

Max. Soil Pressure under footing = 2799 psf

**LOADING HS 20-44**

**BOX CULVERT EXTENSION DETAILS**

**IL RTE 1**  
**F.A.P. RTE. 332 - SEC. (103B)B-1**  
**WABASH COUNTY**  
**STATION 851 +29.38**  
**STRUCTURE NO. 093-7012**

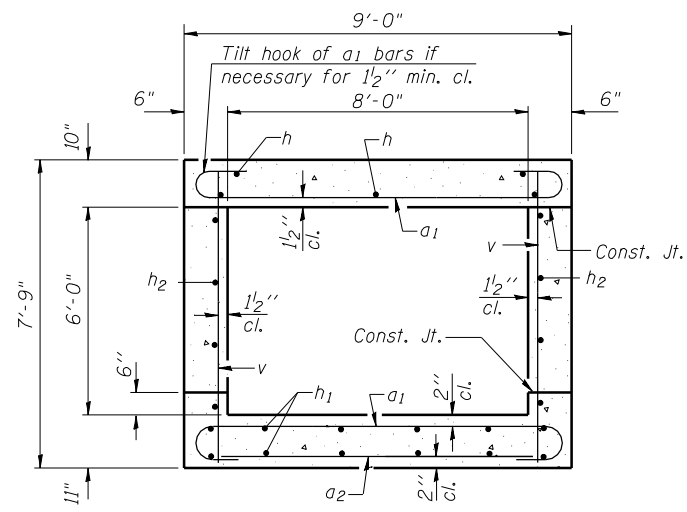
FILE NAME =	USER NAME =	DESIGNED - MJT	REVISED -
		DRAWN - CMM	REVISED -
		CHECKED - MJT	REVISED -
		DATE - APRIL 2011	REVISED -

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

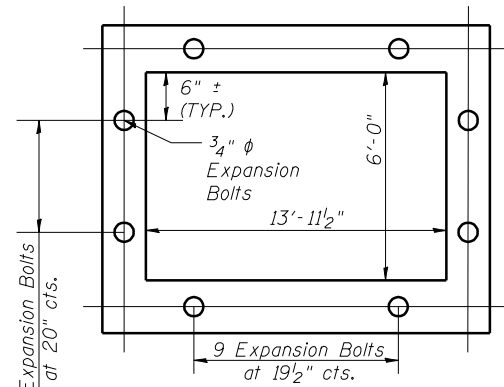
**BOX CULVERT EXTENSION**

SHEET NO. 1 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	41
CONTRACT NO. 74220				
ILLINOIS FED. AID PROJECT				

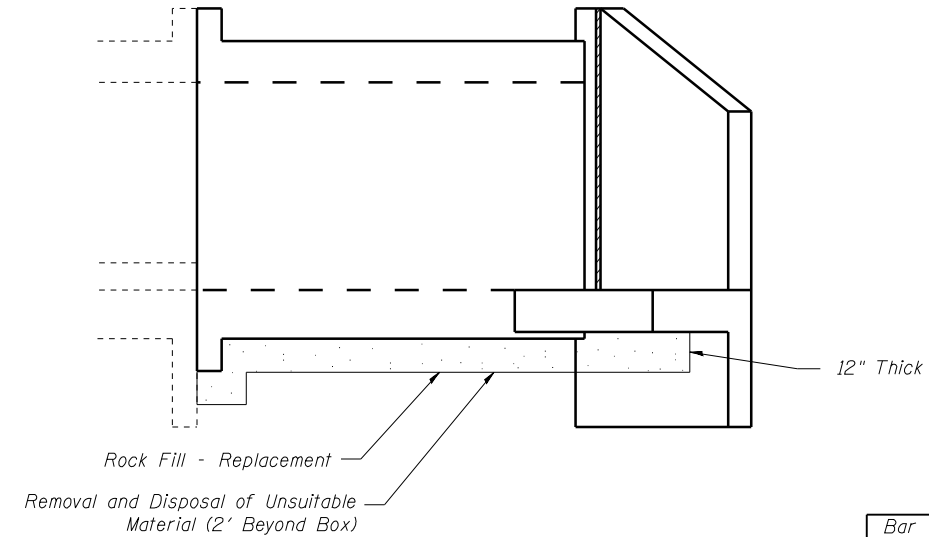


**SECTION THRU BARREL**



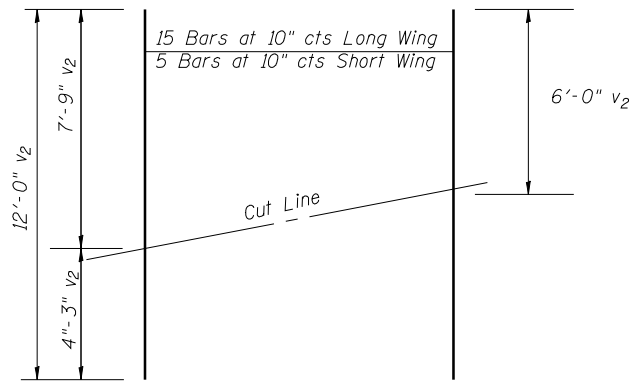
**EXPANSION BOLT PLACEMENT DETAIL**

Note:  
Expansion Bolts shall be 3/4"  $\phi$  hooked bolts.  
Hooked bolts shall extend a minimum of 9"  
into new concrete



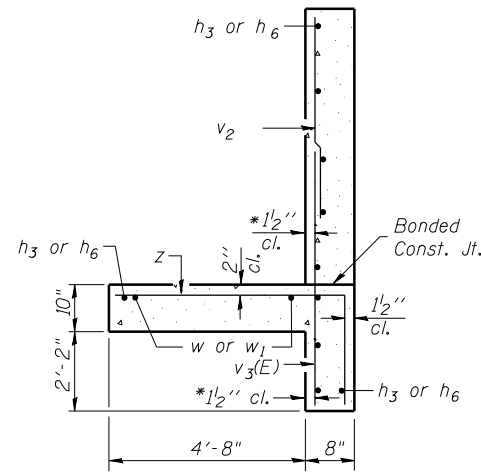
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a <sub>1</sub>	130	#7	10'-4"	
a <sub>2</sub>	14	#4	8'-3"	
d	9	#4	4'-6"	
h	9	#6	29'-3"	
h <sub>1</sub>	18	#4	29'-3"	
h <sub>2</sub>	12	#5	29'-3"	
h <sub>3</sub>	11	#4	24'-3"	
h <sub>4</sub>	6	#6	15'-0"	
h <sub>5</sub>	9	#7	15'-0"	
h <sub>6</sub>	11	#4	7'-9"	
s	48	#4	5'-9"	
v	94	#4	6'-11"	
v <sub>1</sub>	4	#4	10'-9"	
v <sub>2</sub>	20	#4	12'-0"	
v <sub>3</sub> (E)	40	#4	4'-9"	
w	7	#5	28'-6"	
w <sub>1</sub>	7	#5	12'-0"	
z	57	#6	7'-9"	
Concrete Box Culverts	Cu. Yd.		40.4	
Reinforcement Bars, Epoxy Coated	Pound		130	
Reinforcement Bars	Pound		6380	
Rockfill- Replacement	Ton		31.1	
Removal & Disposal of Unsuitable Material	Cu. Yd.		15.2	
Expansion Bolts, 3/4"	Each		26	



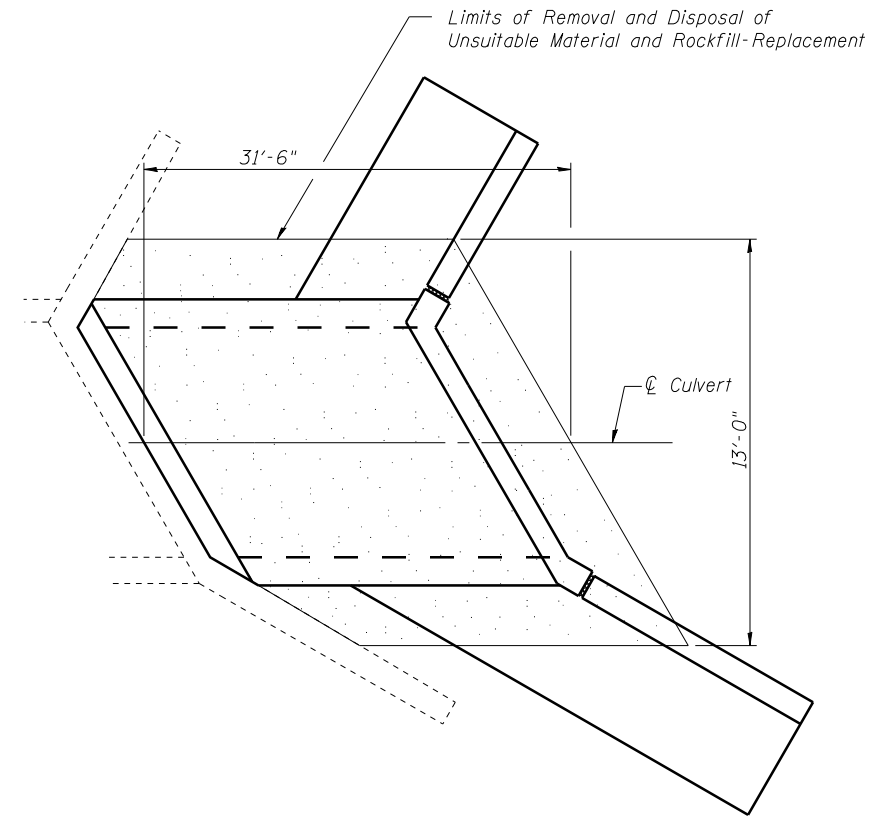
**FIELD CUTTING DIAGRAM**

Order v<sub>2</sub> full length. Cut as shown and use remainder of bars in opposite end of wing



**SECTION A-A**

\* v<sub>2</sub> & v<sub>3</sub> bars shall not be placed more than 1 1/2" cl. from back face of wingwall.



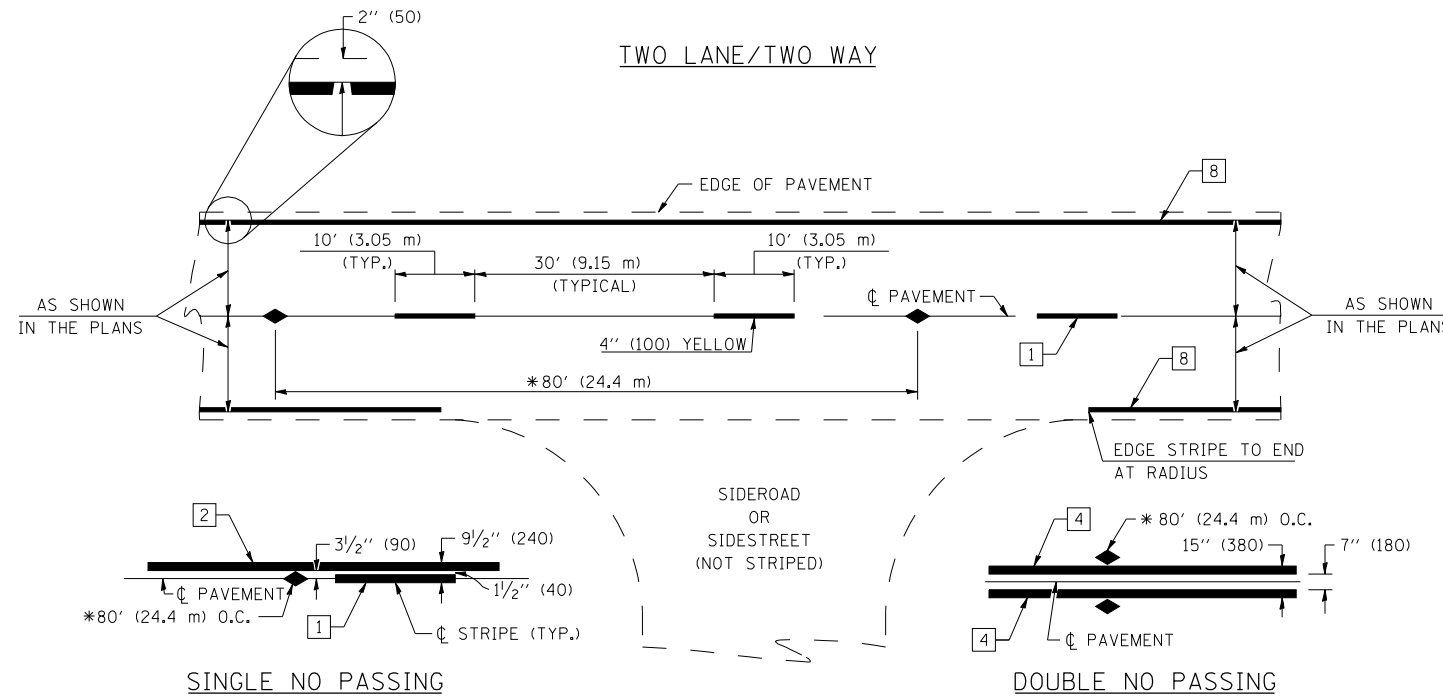
**NOTES**

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.  
Reinforcement bars designated (E) shall be epoxy coated.

**BOX CULVERT EXTENSION DETAILS**

**IL RTE 1**  
**F.A.P. RTE. 332 - SEC. (103B)B-1**  
**WABASH COUNTY**  
**STATION 851 +29.38**  
**STRUCTURE NO. 093-7012**

FILE NAME =	USER NAME =	DESIGNED - MJT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOX CULVERT EXTENSION</b>	F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - CMM	REVISED -			332	(103B)B-1	WABASH	53	42	
		CHECKED - MJT	REVISED -			CONTRACT NO. 74220					
		DATE - APRIL 2011	REVISED -			ILLINOIS FED. AID PROJECT					



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

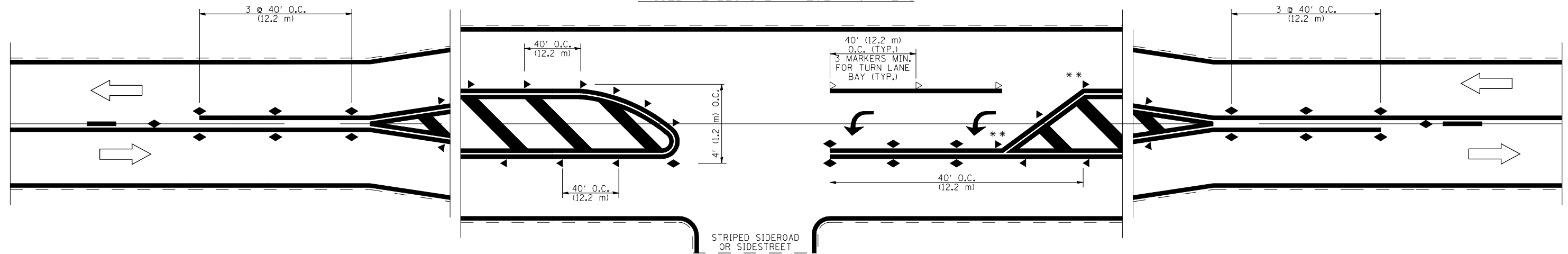
PAVEMENT MARKING LEGEND

- 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 6" (150) 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) PARKING WHITE

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE  
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

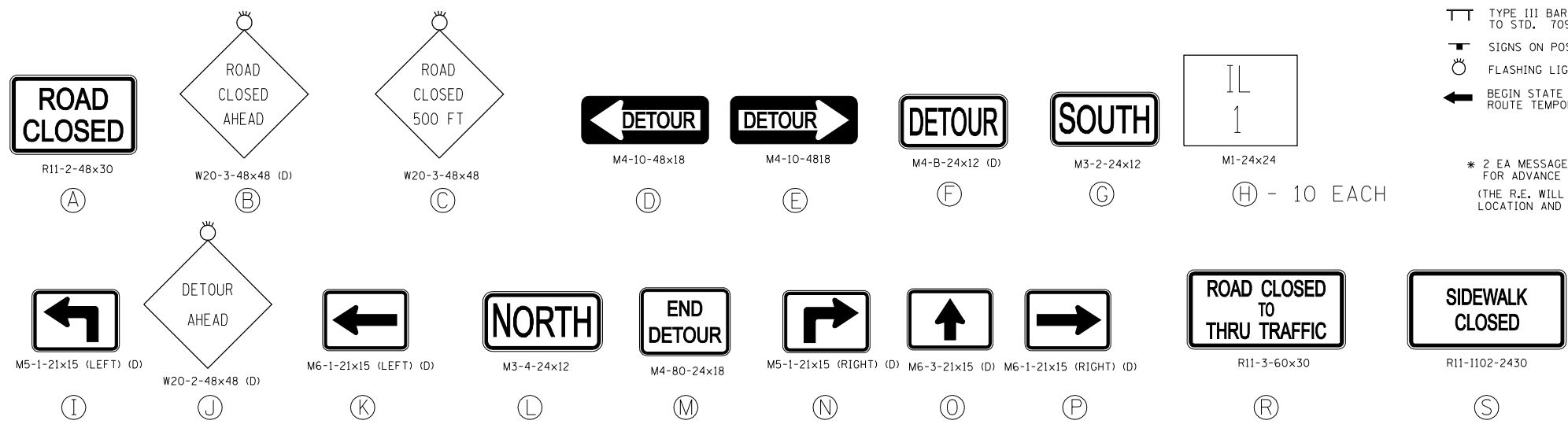
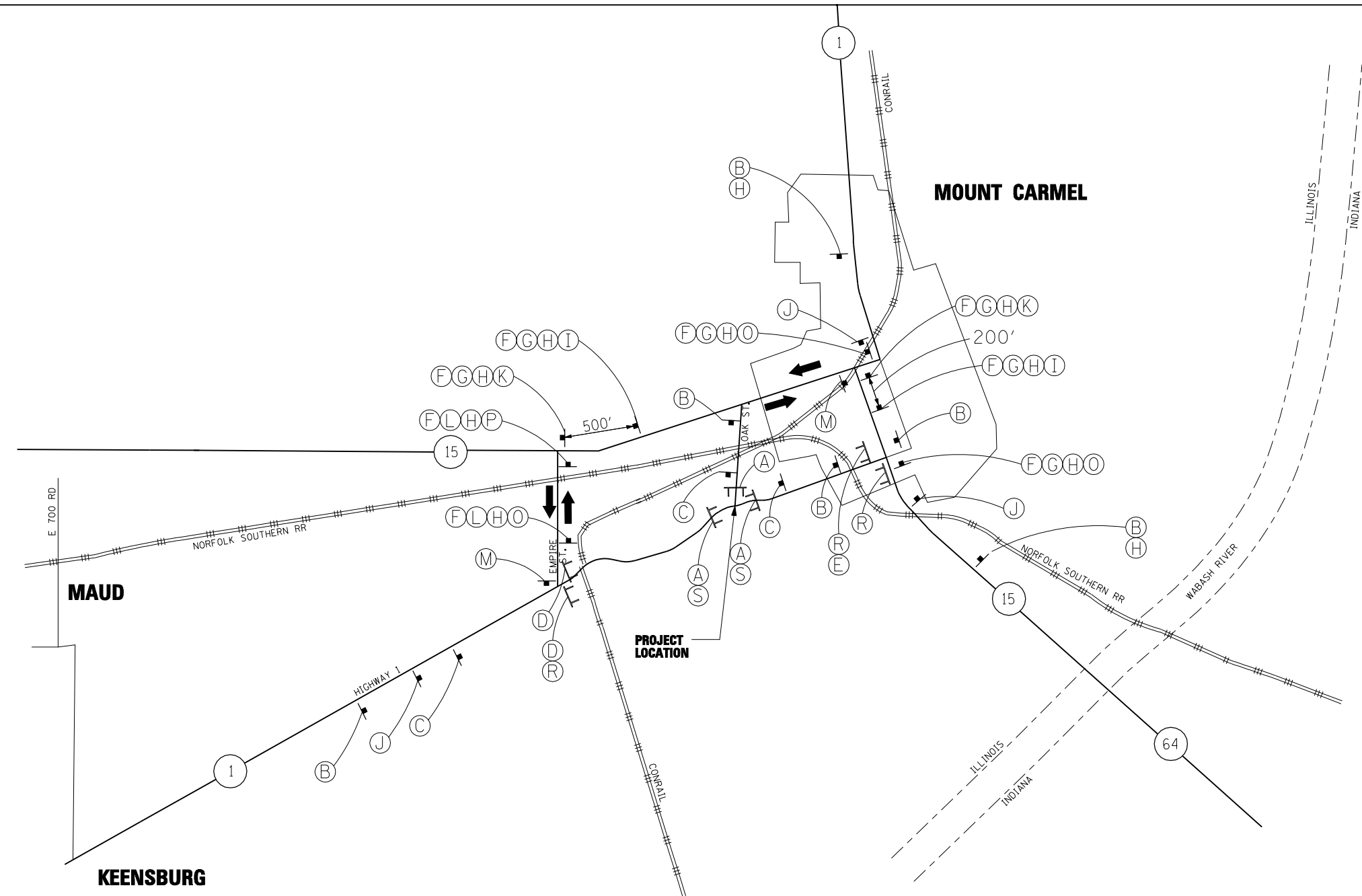
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	PLOT DATE = 12/15/2011	DATE JUNE 2011	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
(RURAL & URBAN APPLICATIONS)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	43
			CONTRACT NO. 74220	
ILLINOIS FED. AID PROJECT				



**LEGEND**

T TYPE III BARRICADES CONFORMING TO STD. 709101 W/2 FLASHING LIGHTS

— SIGNS ON POST MOUNTED SUPPORTS

○ FLASHING LIGHT ABOVE SIGN

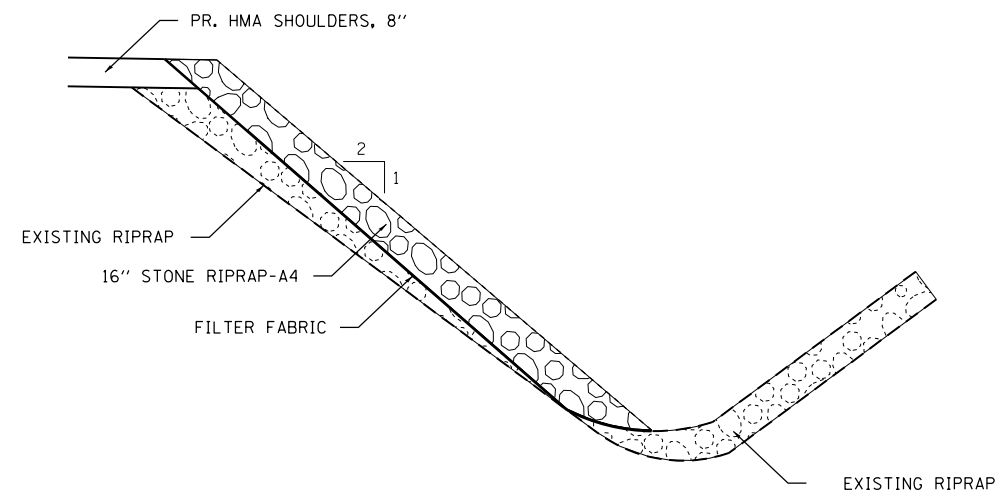
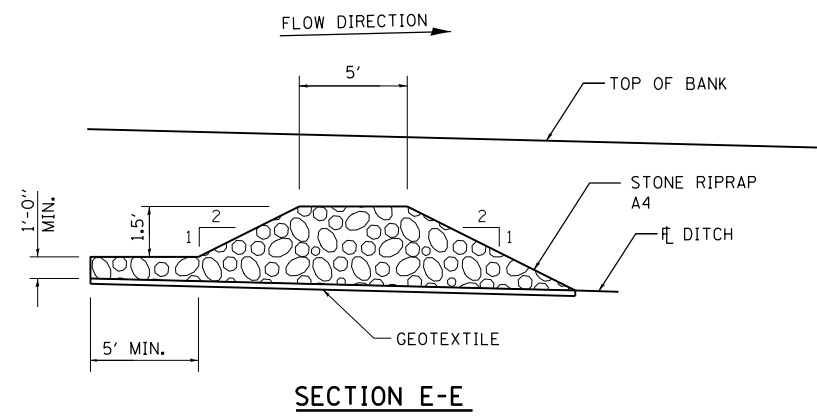
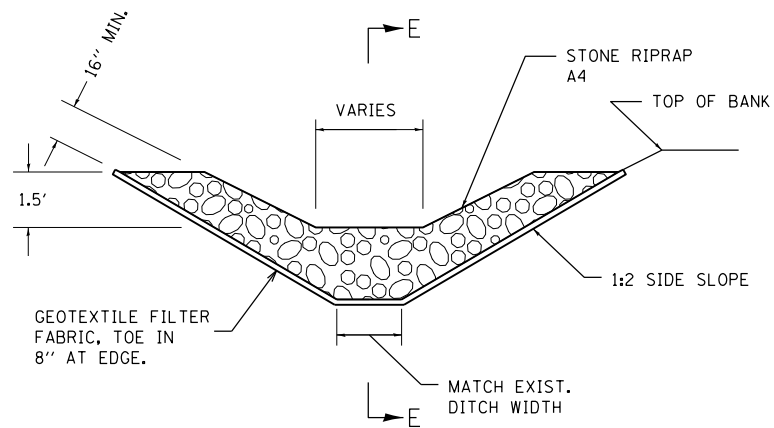
← BEGIN STATE MARKED ROUTE TEMPORARY DETOUR

\* 2 EA MESSAGE BOARDS FOR ADVANCE NOTICE (THE R.E. WILL DETERMINE LOCATION AND MESSAGE)

- GENERAL NOTES**
1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
  2. ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED UNLESS NOTED OTHERWISE.
  3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
  4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL). OTHER ITEMS REQUIRED BY THE ENGINEER AND NOT SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE PAY ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

FILE NAME = 0174220-r11-stagings.dgn	USER NAME = RJT	DESIGNED - MTM	REVISED - ---	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROAD CLOSURE DETAIL</b>		F.A.P. RTE. 332	SECTION (103B)B-1	COUNTY WABASH	TOTAL SHEETS 53	SHEET NO. 44
	PLOT SCALE = 200.0000' / IN.	CHECKED - MTM	REVISED - ---		SCALE: 1"=1.MI.	SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 74220			
PLOT DATE = 12/15/2011	DATE - SEPTEMBER 2011	REVISED - ---	REVISED - ---	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT							

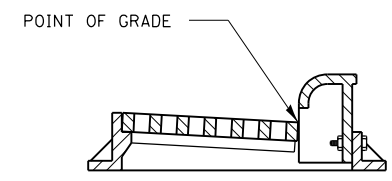




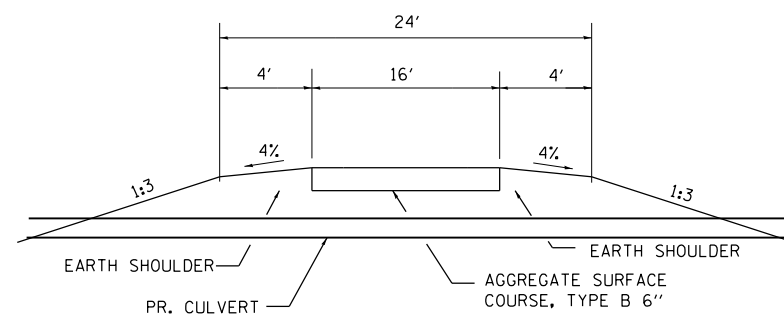
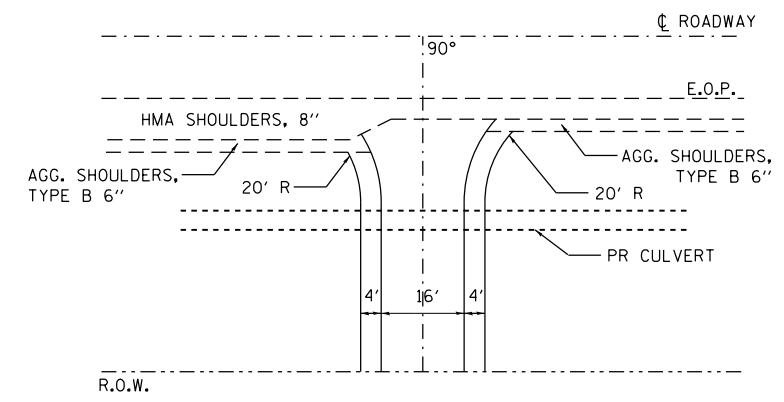
**CHANNEL OUTLET PROTECTION DETAIL**

**NOTES:**

1. USE IN EXISTING, PROPOSED AND TEMPORARY DITCHES OF ALL TYPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
2. THE CHANNEL OUTLET PROTECTION SHALL BE REPLACED DUE TO WASHOUT, CONSTRUCTION TRAFFIC DAMAGE OR SILT ACCUMULATION.
3. CHANNEL OUTLET PROTECTION AND ANY SEDIMENT SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE SO AS NOT TO IMPEDE STORM FLOW OR DRAINAGE. AREA SHALL BE GRADED TO FINISH GRADES.
4. THE CONSTRUCTION, MAINTENANCE, AND REMOVAL OF CHANNEL OUTLET PROTECTION WILL BE PAID FOR AS AGGREGATE (EROSION CONTROL), TONS.



**INLET POINT OF GRADE DETAIL**



**TYPICAL FIELD ENTRANCE DETAIL  
STA. 848+39.00 LT.**

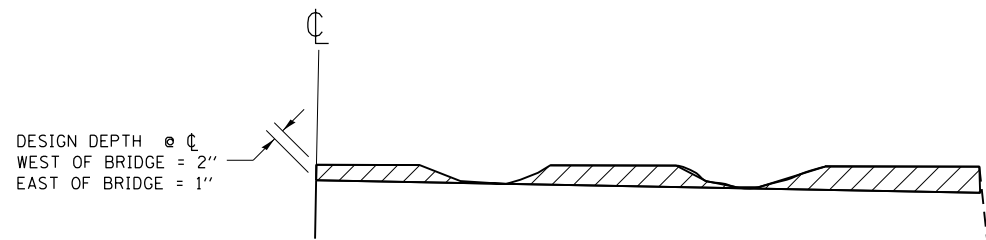
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	PLOT DATE = 10/17/2013	DATE - SEPTEMBER 2011	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS**  
SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	45
CONTRACT NO. 74220				
ILLINOIS FED. AID PROJECT				

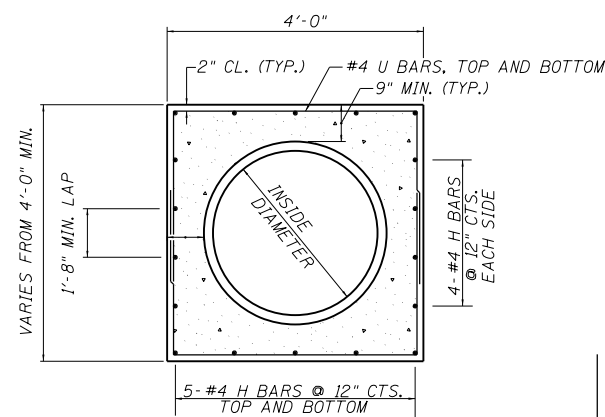




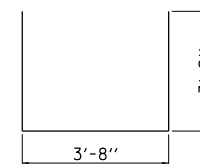
**HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH) DETAIL**

**NOTES:**

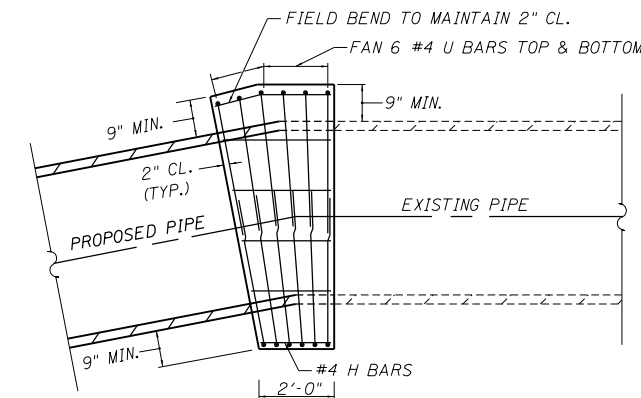
1. MILLING SHALL BE DONE TO MAINTAIN THE EXISTING S.E.
2. MILLING TO THE BOTTOM OF WHEEL RUTS SHALL NOT BE NECESSARY UNLESS REQUIRED TO OBTAIN SLOPE OR THE DESIGN DEPTH AT CENTERLINE.
4. THE AVERAGE DEPTH OF MILLING IS ESTIMATED AS SHOWN ABOVE BUT MAY VARY IN ISOLATED LOCATIONS.



**SECTION VIEW**



**U BAR**



**ELEVATION VIEW**

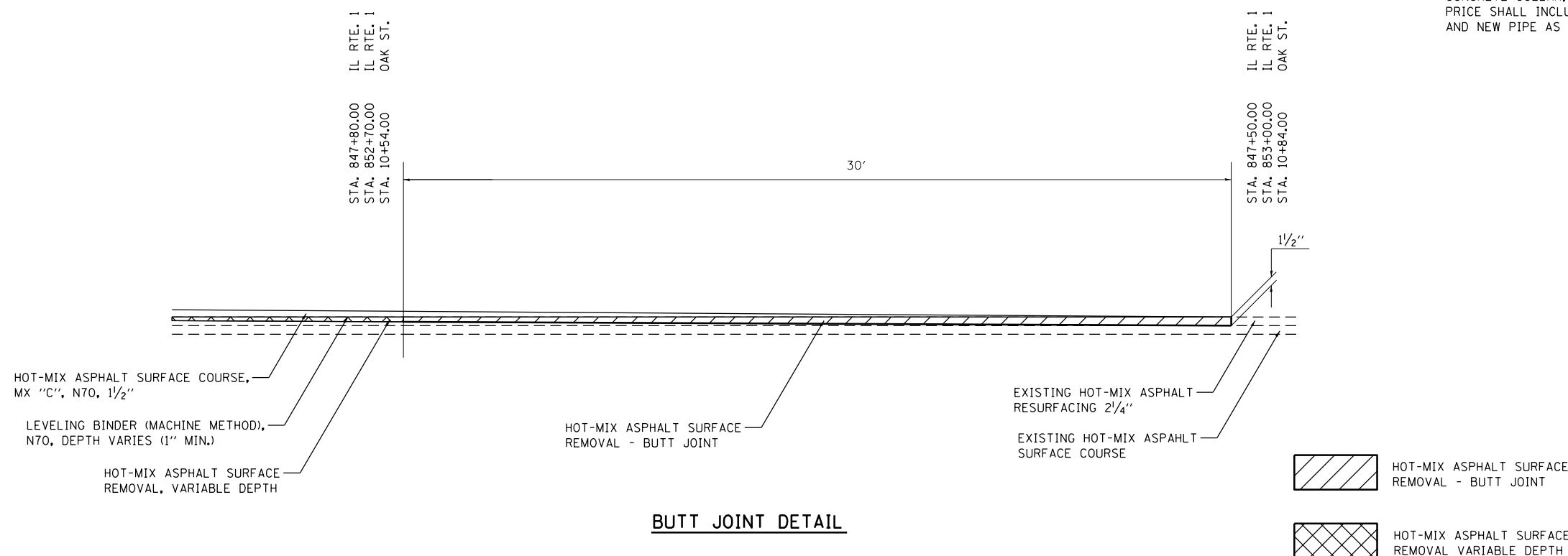
**BILL OF MATERIAL  
ONE CONCRETE COLLAR**

Bar	No.	Size	Length	Shape
H	18	#4	4'-6"	—
U	12	#4	10'-0"	U
Concrete Collar			Cu Yd	1.7
Reinforcement Bars			Pound	130

**CONCRETE COLLAR FOR PIPE CONNECTION DETAIL**

**NOTES:**

1. COST FOR STRUCTURE EXCAVATION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR CONCRETE COLLAR.
2. FIELD CUT H BARS TO LENGTH
3. THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE CUTTING OF EXISTING AND NEW PIPE AS MAY BE REQUIRED.



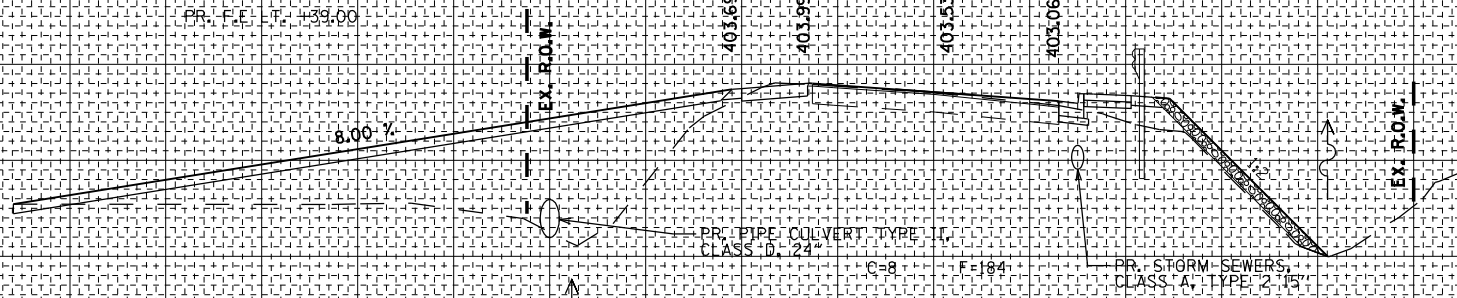
**BUTT JOINT DETAIL**

FINL	SURVEYED	BY	DATE
NO.	NO.	AREAS CHECKED	

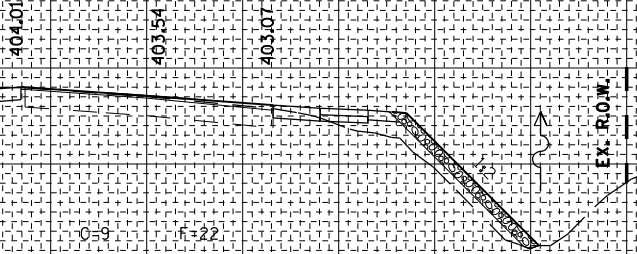
ORIGINAL	SURVEY	BY	DATE
NO.	NO.	AREAS CHECKED	

TEMP. EASEMENT 105' LIT.  
77 77 77 7

PR. F.E. T. +39.00

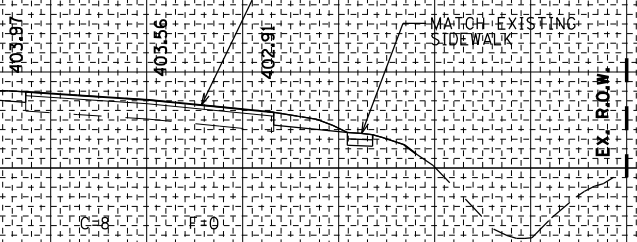


S.D. 396.72



MATCH EXISTING PAVEMENT

MATCH EXISTING SIDEWALK



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USER NAME = RJT  
DESIGNED - MTM  
DRAWN - MM  
PLOT SCALE = 20.0000' / IN.  
PLOT DATE = 12/15/2011

DESIGNED - MTM  
DRAWN - MM  
CHECKED - MTM  
DATE - SEPTEMBER 2011

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

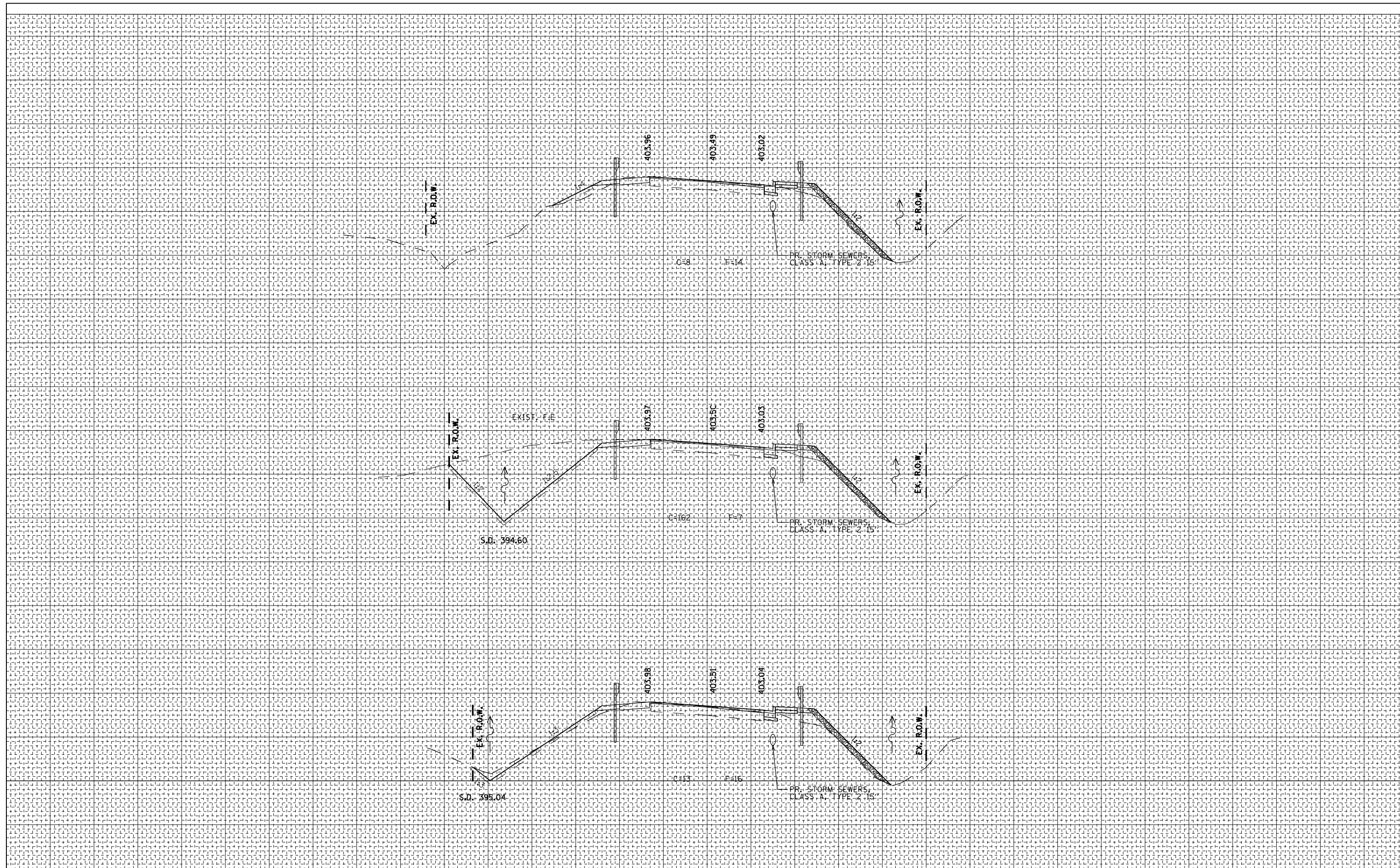
SCALE: H: 1"=10'  
V: 1"=2'  
SHEET NO. 1 OF 7 SHEETS STA. 847+50.00 TO STA. 848+39.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	47
CONTRACT NO. 74220				

ILLINOIS FED. AID PROJECT

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

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



FILE NAME =	USER NAME = RJT	DESIGNED - MTM	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 20.0000' / IN.	CHECKED - MTM	REVISED -	CONTRACT NO. 74220							
PLOT DATE = 12/15/2011	DATE - SEPTEMBER 2011	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: H: 1" = 10'	SHEET NO. 2 OF 7 SHEETS	STA. 849+00.00 TO STA. 849+50.00				

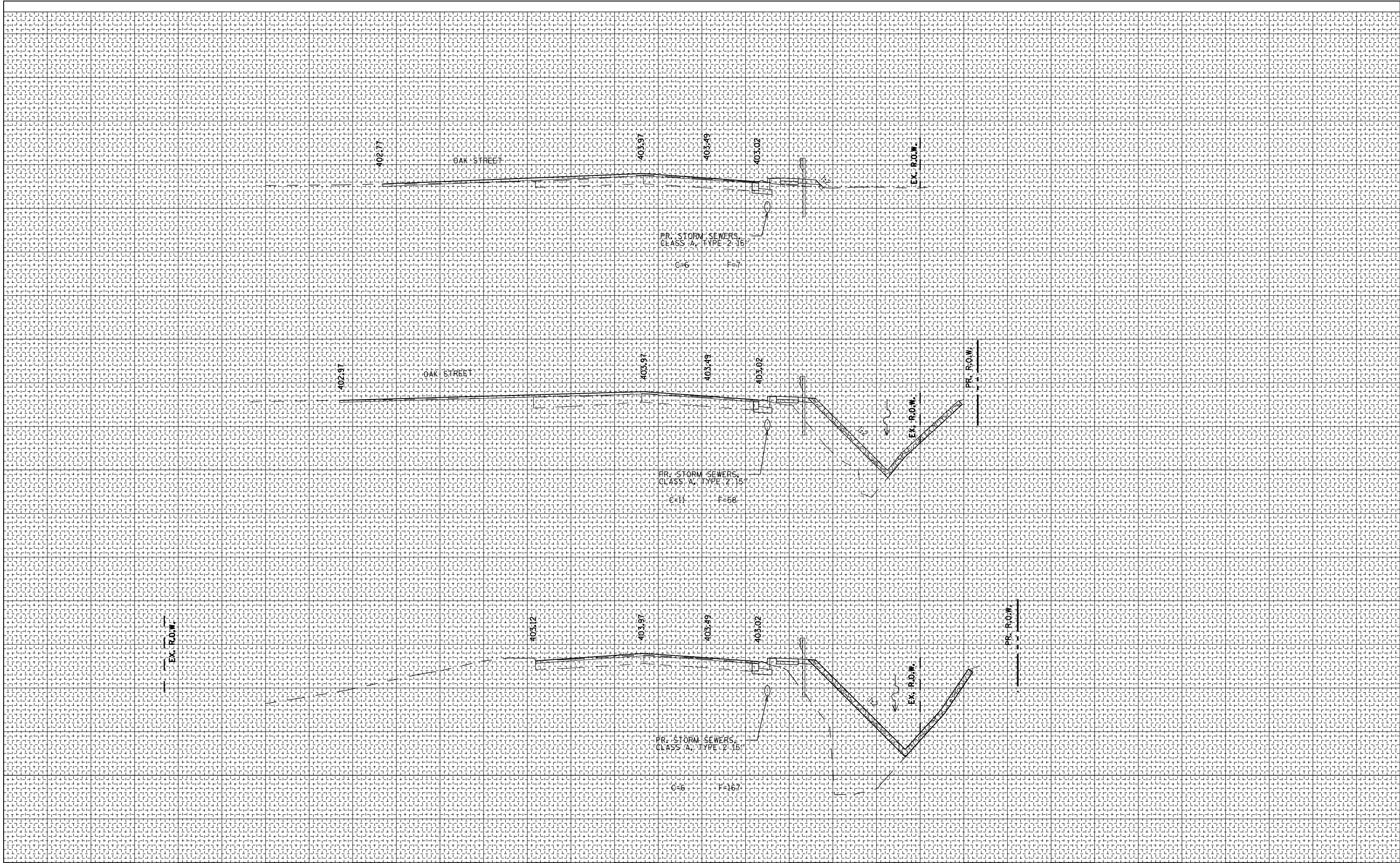






BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE
NOTE BOOK	TEMPLATE	AREAS	
		CHECKED	



FILE NAME =	USER NAME = RJT	DESIGNED - MTM	REVISED -
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PLOT SCALE = 20.0000' / IN.		CHECKED - MTM	REVISED -
PLOT DATE = 12/15/2011		DATE - SEPTEMBER 2011	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

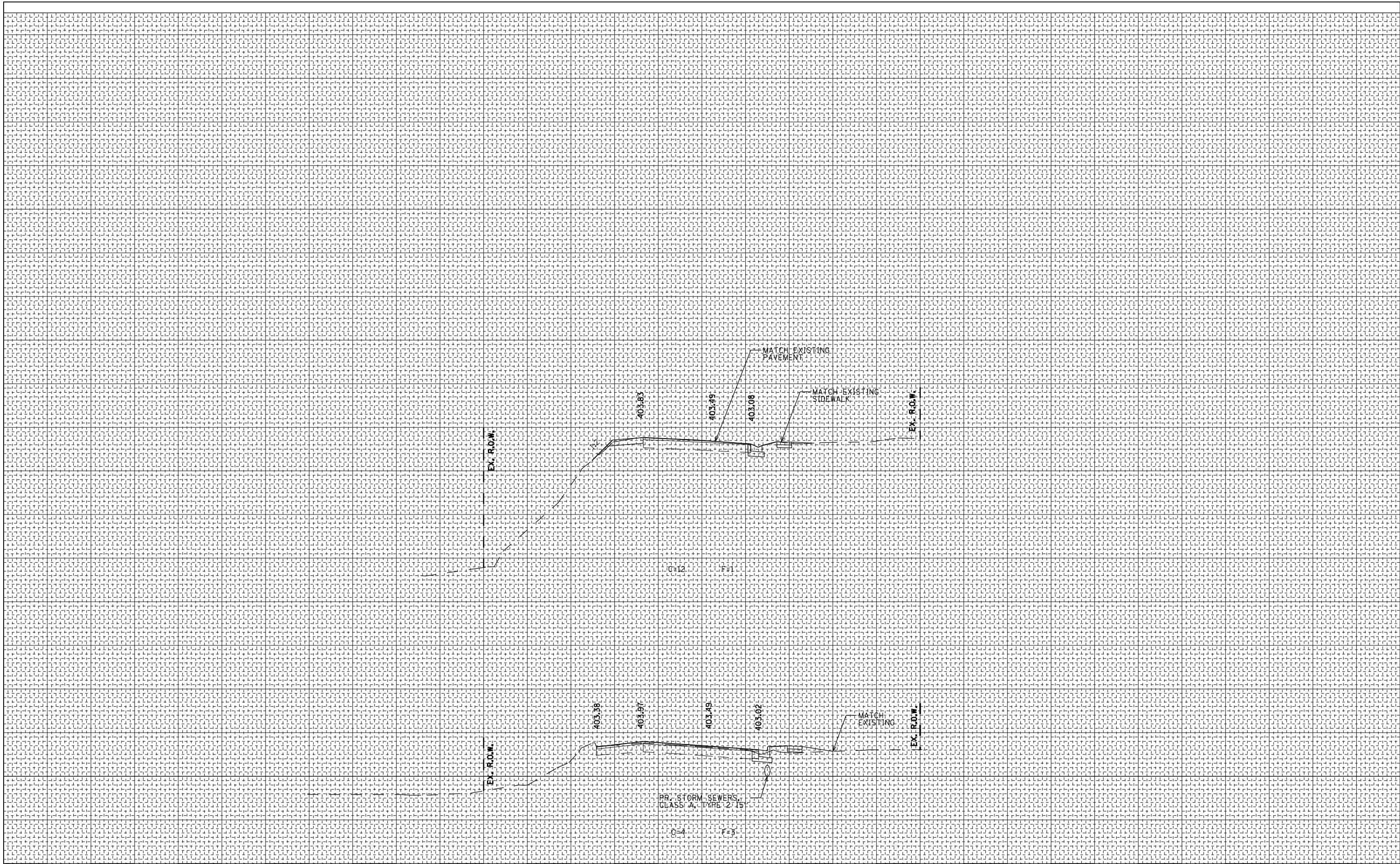
SCALE: $\frac{H}{V} = \frac{1\frac{1}{2}''}{10'}$	SHEET NO. 6 OF 7 SHEETS	STA. 851+50.00 TO STA. 852+00.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	52
CONTRACT NO. 74220				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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PLOT DATE = 12/15/2011			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: H: 1"=10' V: 1"=5' SHEET NO. 7 OF 7 SHEETS STA. 852+50.00 TO STA. 853+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	53
				CONTRACT NO. 74220
ILLINOIS FED. AID PROJECT				