

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	119-7-1	McHENRY	40	1
		ILLINOIS	CONTRACT NO. 60M54	

D-91-126-11

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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

FAP ROUTE 533 (IL 176)
SECTION 119 - T - 1
IL - 176 OVER DRAINAGE DITCH (EAST OF IL 23)
PROJECT: ACBRF-0533(006)
McHENRY COUNTY
CULVERT REPLACEMENT

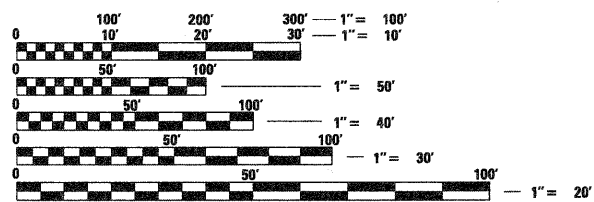


LOCATION OF SECTION INDICATED THUS: —■—

TRAFFIC DATA

IL 176 RD. (TELEGRAPH ST.)
EXISTING ADT : 7,300 (2009)
POSTED SPEED LIMIT 35 MPH

PROJECT IS LOCATED IN THE CITY OF MARENGO

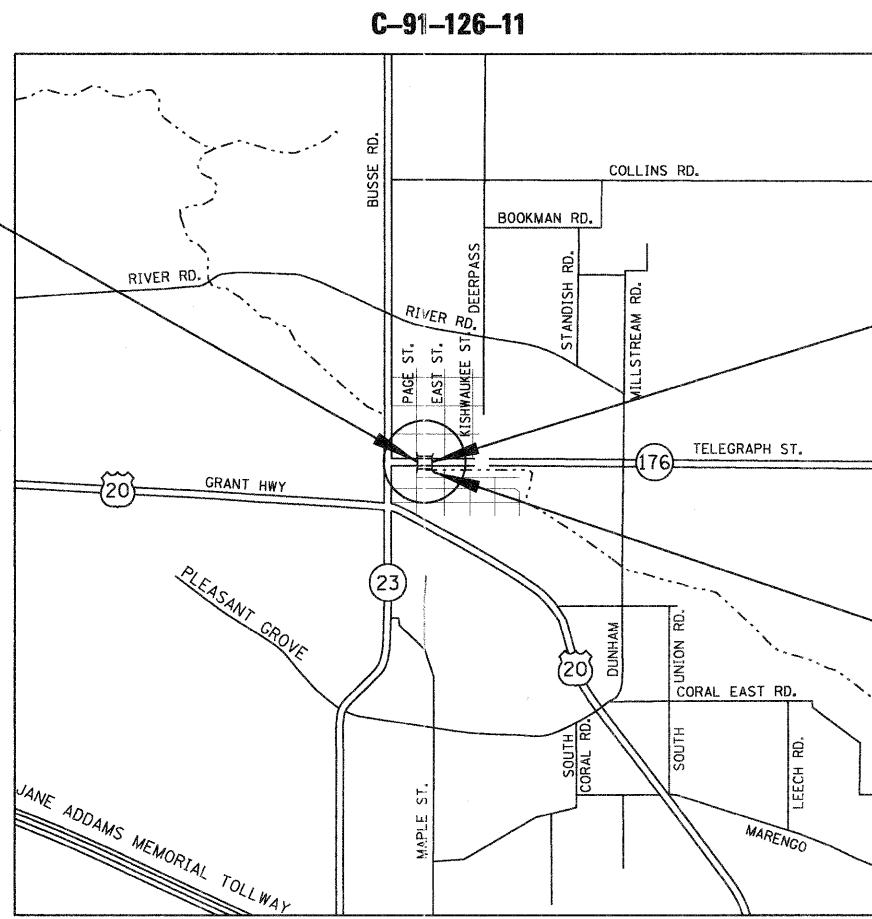


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT BEGINS
STA. 88 + 25.00

PROJECT ENDS
STA. 91 + 75.00



EXISTING DUAL CELL CONCRETE BOX CULVERT TO BE REPLACED WITH CAST-IN-PLACE DUAL CELL CONCRETE BOX CULVERT, APPROACH SLABS AND CONNECTOR PAVEMENT.

EX. SN 056-0072
PR. SN 056-0301



THOMAS M. HEIN, P. E.
IL. LIC. NO. 062-053199
EXP 11-30-11
DATE 9-7-11

PROJECT ENGINEER ROBERT BORO
PROJECT MANAGER ISSAM RAYYAN
CONTRACT NO. 60M54



N.T.S.
GROSS LENGTH = 350.0 FT. = 0.07 MILE
NET LENGTH = 350.0 FT. = 0.07 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED SEPTEMBER 9, 2011
Diane M. O'Keefe, DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
October 14, 2011
Scott E. Stett, P.E., acting ENGINEER OF DESIGN AND ENVIRONMENT
October 14, 2011
Christine M. Reed, DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
*****	*****
1	TITLE SHEET
2	GENERAL NOTES, AND HIGHWAY STANDARDS
3 - 4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6 - 8	SCHEDULE OF QUANTITIES
9	ALIGNMENT, TIES, AND BENCHMARKS
10	REMOVAL PLANS
11	PROPOSED PLAN AND PROFILE
12	MOT - DETOUR ROUTE
13 - 14	PROSPECT ST. PATCHING SURVEY
15	PAVEMENT MARKING, LANDSCAPING, & EROSION CONTROL PLANS
16 - 24	STRUCTURAL PLANS
25 - 32	DISTRICT DETAILS
33 - 40	CROSS SECTIONS

GENERAL NOTES - MISCELLANEOUS

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

TEN FOOT (10-FT) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE RESPECTIVE UTILITIES, THE CITY OF MARENGO, AND MCHENRY COUNTY.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKINGS OUTSIDE THE REMOVAL LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT ON ANY TEMPORARY TRAFFIC CONTROL DEVICES.

THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON, AREA TRAFFIC FIELD ENGINEER AT (847) 438-2300 A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

SAW CUTS WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

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 PROPERTY MARKS AND MONUMENTS. THE ENGINEER, OR AN AUTHORIZED SURVEYOR OR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE SHOWS PLACEMENT OF R.O.W. MARKERS SHALL REMAIN UNDISTURBED.

THE CONTRACTOR AS REQUIRED, SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING WITH CONSTRUCTION.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH STATE OR LOCAL REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION.

THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.

THE CONTRACTOR'S PERSONNEL SHALL NOT BE ALLOWED TO PARK PERSONAL VEHICLES IN THE WORK AREA AND/OR CONSTRUCTION LIMITS.

THE REMOVAL OF EXISTING ENTRANCE CULVERTS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ACCESS SHALL BE PROVIDED AT ALL TIMES TO PROPERTIES ABUTTING THE PROPOSED IMPROVEMENT.

GENERAL NOTES - ROADWAY

THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE.

ANY MAIL BOXES REQUIRING RELOCATION TO CONSTRUCT PORTIONS OF THE CONTRACT SHALL BE MOVED BY THE CONTRACTOR. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE REMOVAL OF SINGLE RAIL, DOUBLE RAIL, RUB RAIL, AND TERMINAL SECTIONS (TAPERS AND END SECTIONS) SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE COST PER LINEAL FOOT FOR STEEL PLATE BEAM GUARD RAIL REMOVAL.

GENERAL NOTES - DRAINAGE

THE COST OF MAKING ANY CONNECTIONS TO EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

LENGTHS AND SIZES OF STORM SEWERS AS SHOWN ON THE PLANS AND DRAINAGE STRUCTURE ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO ORDERING AND INSTALLATION OF DRAINAGE ITEMS. THE INVERTS OF THE PROPOSED DRAINAGE STRUCTURES MAY REQUIRE REVISIONS TO MEET EXISTING FIELD CONDITIONS. ANY ADJUSTMENTS SHALL BE AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL MAINTAIN THE SURFACE DRAINAGE OF THE ROAD DURING CONSTRUCTION OF THIS PROJECT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS, CROSSROAD PIPES, OR DRAINAGE STRUCTURES DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

GENERAL NOTES - UTILITIES

THE CONTRACTOR SHALL PROTECT EXISTING AND NEW UTILITIES. WHEN REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BRACE AND SUPPORT THE UTILITIES PROPERLY IN ORDER TO PREVENT SETTLEMENT, DISPLACEMENT, OR DAMAGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES AS SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY. PRIOR TO THE START OF CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.

GENERAL NOTES - LANDSCAPING

FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE FOLLOWING RATES PER ACRE:

NITROGEN FERTILIZER NUTRIENT - 90 LBS./ACRE
PHOSPHORUS FERTILIZER NUTRIENT - 90 LBS./ACRE
POTASSIUM FERTILIZER NUTRIENT - 90 LBS./ACRE

GENERAL NOTES - EROSION AND SEDIMENT CONTROL

ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT, OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.

AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.

COMMITMENTS

NONE

HIGHWAY STANDARDS

280001-06 TEMPORARY EROSION CONTROL SYSTEMS

420401-08 BRIDGE APPROACH PAVEMENT CONNECTOR

442201-03 CLASS C AND D PATCHES

482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT

515001-03 NAME PLATE FOR BRIDGES

542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION

602301-03 INLET, TYPE A

604036-02 GRATE, TYPE 8

630301-05 SHOULDER WIDENING FOR TYPE 1(SPECIAL) GUARDRAIL TERMINALS

631031-09 TRAFFIC BARRIER TERMINAL, TYPE 6

635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT

635011-02 REFLECTOR MARKER AND MOUNTING DETAILS


701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

701901-01 TRAFFIC CONTROL DEVICES

720001-01 SIGN PANEL MOUNTING DETAILS

720006-02 SIGN PANEL ERECTION DETAILS

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	USER NAME = ZPIENID	DESIGNED - DLP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP ROUTE 533 (IL RTE 176) OVER DRAINAGE DITCH (EAST OF IL RTE 23) GENERAL NOTE & HIGHWAY STANDARDS			F.A.P. RTE. 533	SECTION 119-T-1	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 2
	PLOT SCALE = 50.00' / IN.	CHECKED - TMH	REVISED -					IL ROUTE 176	CONTRACT NO. 60M54			
PLOT DATE = 8/31/2011	DATE - 04/07/11	REVISED -	SCALE:		SHEET NO.	OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

80% FED./20% STATE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY 0004	CULVERT 0011
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	16	16	0
20200100	EARTH EXCAVATION	CU YD	47	47	0
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	143	50	93
20300100	CHANNEL EXCAVATION	CU YD	262	262	0
20400800	FURNISHED EXCAVATION	CU YD	13	13	0
20700220	POROUS GRANULAR EMBANKMENT	CU YD	93	0	93
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,012	1,012	0
25000210	SEEDING, CLASS 2A	ACRE	0.05	0.05	0.00
25000312	SEEDING, CLASS 4A	ACRE	0.14	0.14	0.00
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	4	4	0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	4	4	0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	4	4	0
25100630	EROSION CONTROL BLANKET	SQ YD	1,012	1,012	0
28000305	TEMPORARY DITCH CHECKS	FOOT	30	30	0
28000400	PERIMETER EROSION BARRIER	FOOT	204	204	0
28100107	STONE RIPRAP, CLASS A4	SQ YD	90	0	90
28200200	FILTER FABRIC	SQ YD	90	0	90
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	387	387	0
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	45	45	0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	135	135	0
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	36	36	0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	53	53	0
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	5	5	0
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	71	71	0
42001300	PROTECTIVE COAT	SQ YD	295	295	0
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	53	53	0
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	12	12	0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,065	2,065	0
42400800	DETECTABLE WARNINGS	SQ FT	40	40	0
44000100	PAVEMENT REMOVAL	SQ YD	333	333	0
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	788	788	0
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	75	75	0
44000600	SIDEWALK REMOVAL	SQ FT	17	17	0
44004250	PAVED SHOULDER REMOVAL	SQ YD	168	168	0
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	53	53	0

80% FED./20% STATE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY 0004	CULVERT 0011
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	40	40	0
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	622	622	0
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	163	163	0
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	161	161	0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	0	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2	0
50300100	FLOOR DRAINS	EACH	4	0	4
50300225	CONCRETE STRUCTURES	CU YD	35.7	0.0	35.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	176.1	0.0	176.1
50300260	BRIDGE DECK GROOVING	SQ YD	427	0	427
50300300	PROTECTIVE COAT	SQ YD	474	0	474
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	81,540	0	81,540
50800515	BAR SPLICERS	EACH	114	0	114
50901750	PARAPET RAILING	FOOT	49	0	49
51500100	NAME PLATES	EACH	1	0	1
54003000	CONCRETE BOX CULVERTS	CU YD	104.8	0.0	104.8
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1	0
542A0217	PIPE CULVERTS, CLASS A, TYPE I 12"	FOOT	14	14	0
542A0220	PIPE CULVERTS, CLASS A, TYPE I 15"	FOOT	101	101	0
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	1	1	0
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	10	0	10
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1	0
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	3	3	0
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1	0
63200310	GUARDRAIL REMOVAL	FOOT	233	233	0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	0
67100100	MOBILIZATION	L SUM	1.0	1.0	0.0
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1.0	1.0	0.0
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	0
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36	36	0
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,798	1,798	0
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	66	66	0
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	171	171	0
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	130	130	0
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	50	50	0

*SPECIALTY ITEMS

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	USER NAME = 2pmind	DESIGNED - DLP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP ROUTE 533 (IL RTE 176) OVER DRAINAGE DITCH (EAST OF IL RTE 23)	F.A.P. RTE: 533	SECTION 119-T-1	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 3
	PLOT SCALE = 50.00' / IN.	DRAWN - ENTRAN	CHECKED - TMH			REVISED -	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.
	PLOT DATE = 9/8/2011	DATE = 04/07/11	REVISED -							Rev.

SCHEDULE OF QUANTITIES

40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	TON
RATE = 112.0 POUND / SQ YD / INCH					
DEPTH = 1.5 INCH					
IL 176 - INTERSECTION AT PAGE ST					
88+25.0	32.0	-	88+92.0	32.0	30.2
IL 176 - EAST ROADWAY					
89+94.0	24.0	-	91+75.0	24.0	40.5
TOTAL =					71

42001420 BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD
IL 176 - WEST SIDE					
88+92.0	40.0	-	88+98.0	40.0	26.7
IL 176 - EAST SIDE					
89+88.0	40.0	-	89+94.0	40.0	26.7
TOTAL =					53

42300200 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD
IL 176 - DRIVEWAY					
89+44.5	7.0	-	89+59.5	7.0	11.7
TOTAL =					12

42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ FT
IL 176 - SIDEWALKS					
87+66.0	11.0	-	87+71.0	11.0	55.0
87+71.0	5.0	-	88+56.0	5.0	425.0
88+77.0	10.0	-	89+02.0	10.0	250.0
89+32.0	10.0	-	89+40.0	10.0	80.0
89+40.0	10.0	-	89+46.0	5.0	45.0
89+46.0	5.0	-	91+88.0	5.0	1,210.0
TOTAL =					2,065

44000100 PAVEMENT REMOVAL

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD
IL 176 - WEST SIDE					
88+91.8	40.0	-	89+20.0	40.0	125.3
IL 176 - EAST SIDE					
89+47.5	40.0	-	89+94.2	40.0	207.6
TOTAL =					333

44000158 HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD
IL 176 - PAGE ST INTERSECTION					
89+29.5	33.0	-	89+91.8	36.0	317.0
IL 176 - EAST OF CULVERT					
89+94.2	24.0	-	91+70.5	24.0	470.1
TOTAL =					787

44000200 DRIVEWAY PAVEMENT REMOVAL

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD
IL 176					
87+77.0	14.0	-	88+02.0	14.0	40.7
89+46.0	12.0	-	89+57.0	12.0	16.4
90+12.0	15.5	-	90+21.0	15.5	17.7
TOTAL =					75

44000600 SIDEWALK REMOVAL

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ FT
87+65.4	3.5	-	87+70.4	3.3	17.1
TOTAL =					17

44004250 PAVED SHOULDER REMOVAL

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD
IL 176 - NORTH SIDE					
89+80.1	4.3	-	91+75.0	4.0	89.9
IL 176 - SOUTH SIDE					
90+08.4	4.4	-	91+75.0	4.0	77.8
TOTAL =					168

48101500 AGGREGATE SHOULDERS, TYPE B 6"

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD
IL 176 - SOUTH SIDE					
88+87.0	4.0	-	89+09.0	4.0	9.8
90+12.0	4.0	-	91+75.0	4.0	72.4
IL 176 - NORTH SIDE					
89+76.0	4.0	-	90+08.0	4.0	14.2
90+25.0	4.0	-	91+75.0	4.0	66.7
TOTAL =					163

48203029 HOT-MIX ASPHALT SHOULDERS, 8"

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD
IL 176 - SOUTH SIDE					
90+08.0	4.0	-	91+75.0	4.0	74.2
IL 176 - NORTH SIDE					
89+80.0	4.0	-	91+75.0	4.0	86.7
TOTAL =					161

54213660 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	EACH
IL 176					
90+33.7	24.9 LT	-			1.0
TOTAL =					1

542A0217 PIPE CULVERTS, CLASS A, TYPE 1 12"

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	FOOT
IL 176					
88+88.0	26.6 LT	-	89+01.9	26.6 LT	13.8
TOTAL =					14

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

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	FOOT
89+31.0	25.0 LT	-	89+84.0	25.0 LT	53.0
89+84.0	25.0 LT	-	90+32.3	25.0 LT	48.3
TOTAL =					101

56500600 DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	EACH
IL 176					
88+18.0	31.0 LT	-			1.0
TOTAL =					1

60236200 INLETS, TYPE A, TYPE 8 GRATE

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	EACH
IL 176					
89+84.0	25.0 LT	-			1.0
TOTAL =					1

60300105 FRAMES AND GRATES TO BE ADJUSTED

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	EACH
IL 176					
88+46.0	17.0 LT	-			1.0
88+51.0	18.5 LT	-			1.0
88+55.0	16.0 LT	-			1.0
TOTAL =					3

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	EACH
89+42.0	20.5 RT	-			1.0
89+87.0	20.5 RT	-			1.0
TOTAL =					2

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	EACH
88+98.0	20.5 RT	-			1.0
TOTAL =					1

63200310 GUARDRAIL REMOVAL

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	FOOT
IL 176 - SOUTH SIDE					
88+91.1	20.9 RT	-	90+32.8	20.7 RT	141.7
IL 176 - NORTH SIDE					
88+83.6	49.4 LT	-	89+36.3	29.7 LT	91.0
TOTAL =					233

72400100 REMOVE SIGN PANEL ASSEMBLY - TYPE A

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	EACH
IL 176 - WEIGHT RESTRICTION					
88+95.0	23.0 RT	-			1.0
90+81.0	20.0 LT	-			1.0
TOTAL =					2

78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	FOOT
IL 176 - WHITE EDGE LINES WEST OF CULVERT					
88+25.0	16.0 LT	-	88+57.0	33.0 LT	45.0
88+25.0	16.0 RT	-	88+47.0	32.0 RT	28.0
88+77.0	33.0 LT	-	88+81.0	20.0 LT	15.0
88+77.0	28.0 RT	-	89+04.0	12.0 RT	35.0
IL 176 - YELLOW CENTERLINE - 10' - 30' SKIP - DASH					
88+25.0	0.0 RT	-	88+91.8	0.0 RT	17.0
IL 176 - WHITE EDGE LINES EAST OF CULVERT					
89+82.0	12.0 LT	-	91+75.0	12.0 LT	193.0
90+06.0	12.0 RT	-	91+75.0	12.0 RT	169.0
IL 176 - YELLOW CENTERLINE - 10' - 30' SKIP - DASH					
89+94.0	0.0 RT	-	91+75.0	0.0 RT	46.0
TOTAL =					1,798

78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	FOOT
IL 176					
88+57.0	31.0 LT	-	88+70.0	31.0 LT	13.0
88+63.0	27.0 RT	-	88+78.0	27.0 RT	15.0
91+90.0	38.0 LT	-	92+04.0	38.0 LT	14.0
TOTAL =					66

78008210 POLYUREA PAVEMENT MARKING TYPE I - LINE 4"

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	FOOT
IL 176 - NORTH SIDE - WHITE					
89+40.0	12.0 LT	-	89+82.0	12.0 LT	42.0
IL 176 - SOUTH SIDE - WHITE					
89+03.0	12.0 RT	-	90+06.0	12.0 RT	103.0
IL 176 - CENTERLINE 10' - 30' SKIP - DASH - YELLOW					
88+91.8	0.0 RT	-	89+94.2	0.0 RT	25.8
TOTAL =					171

78008230 POLYUREA PAVEMENT MARKING TYPE I - LINE 6"

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	FOOT
IL 176 - AROUND SHOULDER DIAGNOLS					
88+85.0	16.0 LT	-	89+41.0	16.0 LT	130.0
TOTAL =					130

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SCHEDULE OF QUANTITIES


78008250 POLYUREA PAVEMENT MARKING TYPE I - LINE 12"

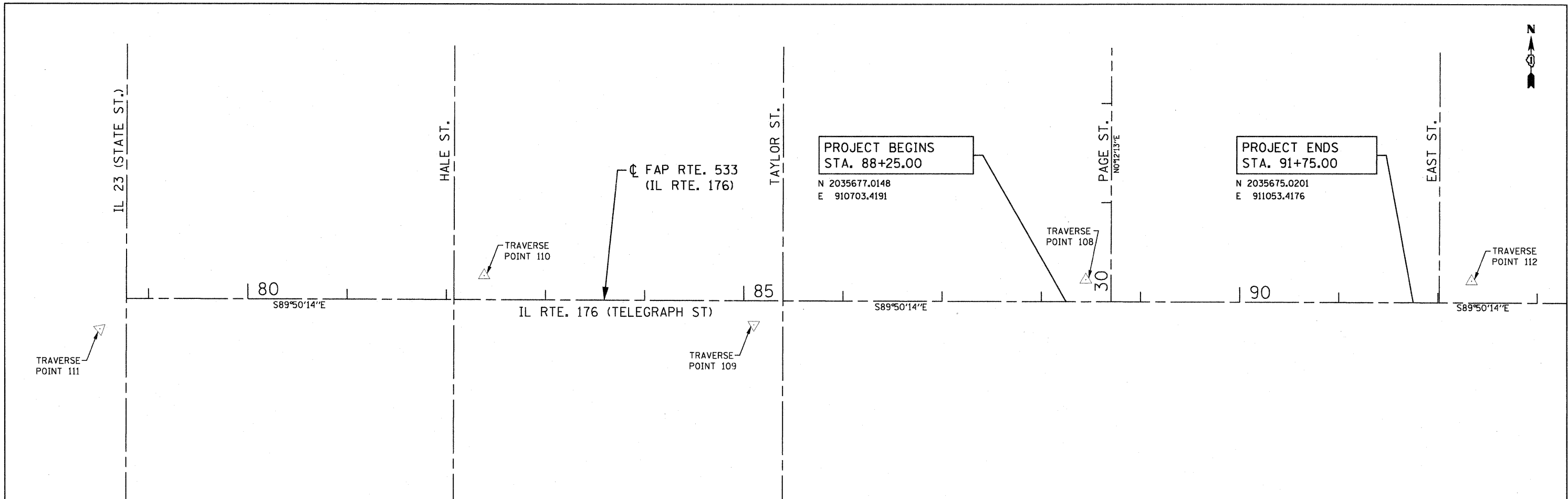
STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	FOOT
IL 176 - SHOULDER DIAGNOLS EVERY 10'					
88+85.0	16.0 LT	-	89+41.0	16.0 LT	50.0
					=====
TOTAL =					50

X7240600 REMOVE AND RE-ERECT EXISTING SIGN

STATION	OFFSET(FT)	EACH
IL 176 - STOP SIGN		
88+51.0	30.0 LT	1.0
88+84.0	31.5 RT	1.0
IL 176 - STREET SIGN		
88+46.0	26.0 LT	1.0
IL 176 - TRUCK SIGN		
88+82.0	31.0 LT	1.0
IL 176 - SCHOOL SIGN		
89+40.0	24.0 LT	1.0
IL 176 - SPEED SIGN		
91+65.0	26.0 LT	1.0
		=====
TOTAL =		6

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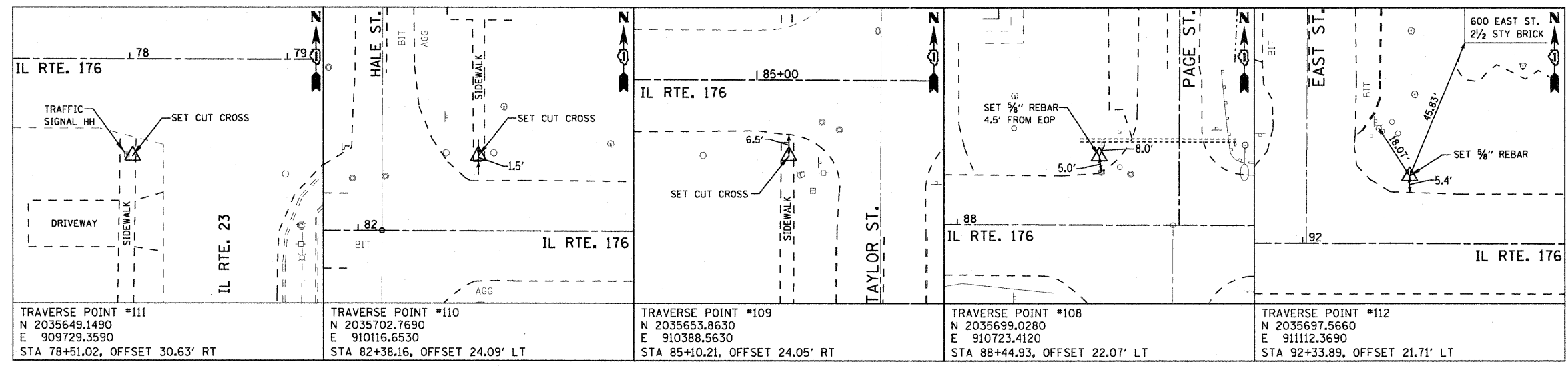
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	PLOT SCALE = 50.00' / IN.	CHECKED - TMH	REVISED -			533	119-T-1	McHENRY	40	8
	PLOT DATE = 8/31/2011	DATE - 04/07/11	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		IL ROUTE 176		CONTRACT NO. 60M54		
						FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



BENCHMARK

BM-100 SET CUT CROSS IN SIDEWALK SOUTH OF IL RTE 176 (TELEGRAPH ST.) AND WEST OF TAYLOR ST. APPROX. STA. 85+10.21, OFFSET 24.05' RT. ELEV. = 807.26

NOTE:
VERTICAL AND HORIZONTAL CONTROL
NAVD 1988 DATUM PER GPS VRS NETWORK



TRAVERSE CONTROL POINTS
NOT TO SCALE

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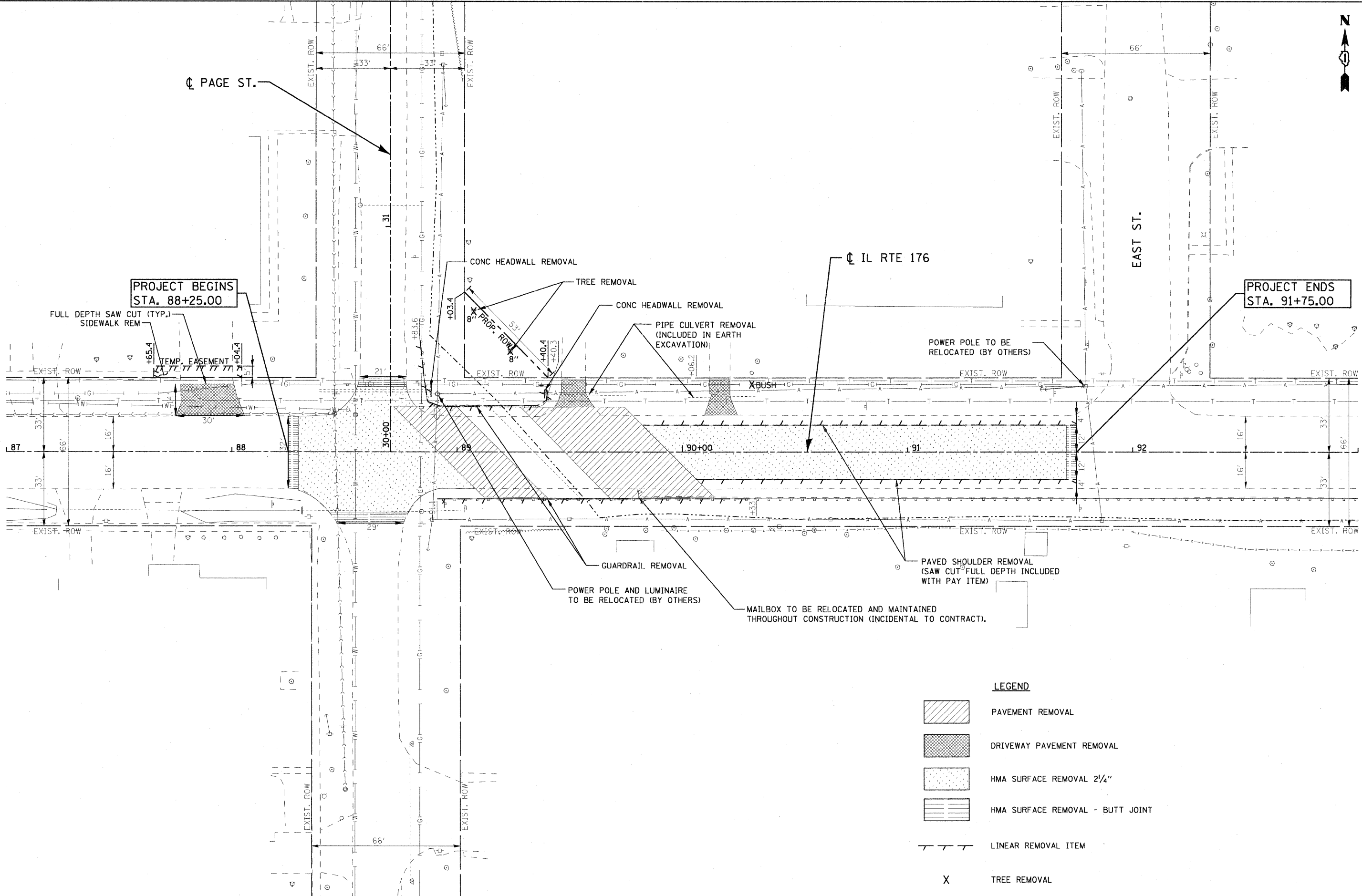


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PLOT DATE = 8/31/2011	CHECKED - TMH	REVISED -
	DATE - 04/07/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION







FAP ROUTE 533 (IL RTE 176) OVER DRAINAGE DITCH (EAST OF IL RTE 23) ALIGNMENT, TIES & BENCHMARKS			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	119-T-1	MCHEMRY	40	9
IL ROUTE 176			CONTRACT NO. 60M54	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	



PROJECT BEGINS
STA. 88+25.00

PROJECT ENDS
STA. 91+75.00

- LEGEND**
-  PAVEMENT REMOVAL
 -  DRIVEWAY PAVEMENT REMOVAL
 -  HMA SURFACE REMOVAL 2 1/4"
 -  HMA SURFACE REMOVAL - BUTT JOINT
 -  LINEAR REMOVAL ITEM
 -  TREE REMOVAL

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USER NAME = 2PIENID
PLOT SCALE = 20.00' / IN.
PLOT DATE = 8/31/2011

DESIGNED - DLP	REVISED -
DRAWN - ENTRAN	REVISED -
CHECKED - TMH	REVISED -
DATE - 04/07/11	REVISED -

DESIGNED - DLP	REVISED -
DRAWN - ENTRAN	REVISED -
CHECKED - TMH	REVISED -
DATE - 04/07/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

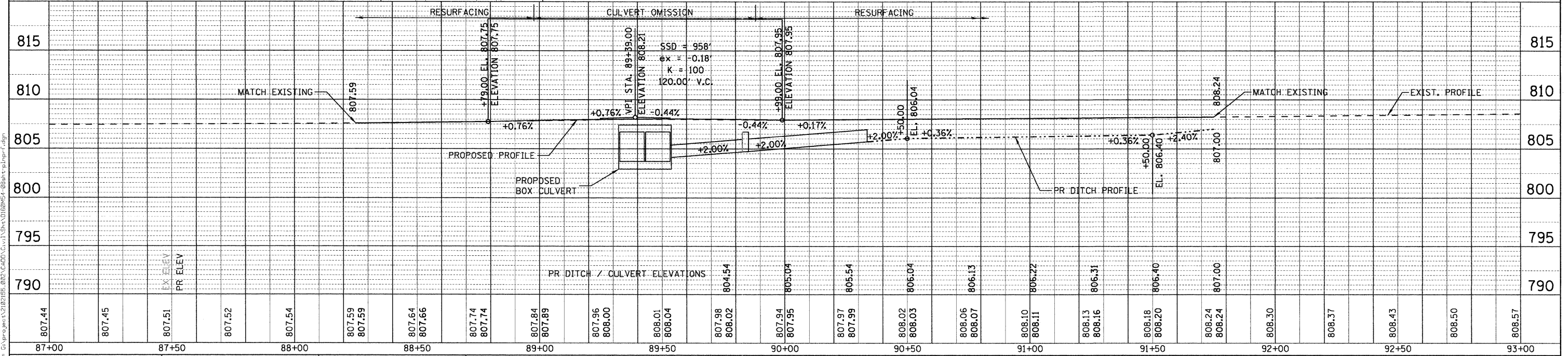
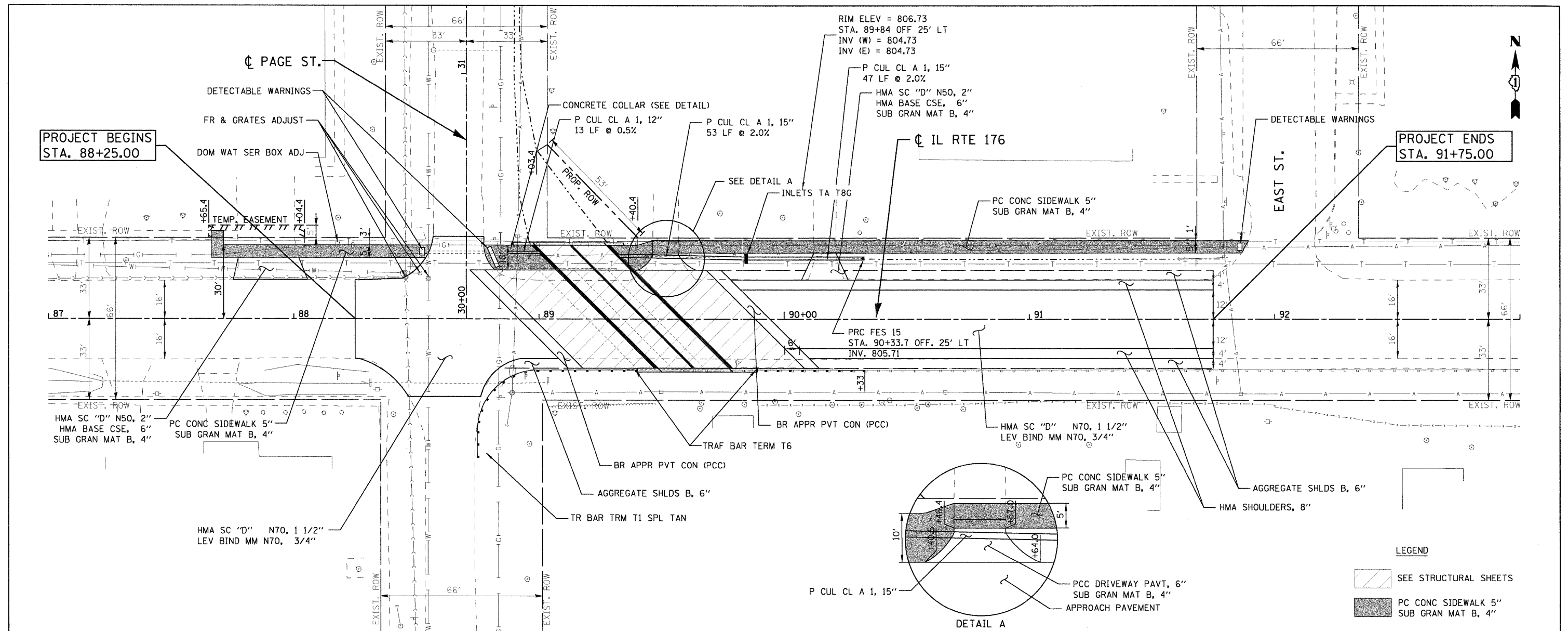
**FAP ROUTE 533 (IL RTE 176) OVER DRAINAGE DITCH (EAST OF IL RTE 23)
REMOVAL PLAN**

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

F.A.P. RTE. 533	SECTION 119-T-1	COUNTY McHENRY	TOTAL SHEETS 40	SHEET NO. 10
IL ROUTE 176		CONTRACT NO. 60M54		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	
FILE NAME	

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	
FILE NAME	



LEGEND

	SEE STRUCTURAL SHEETS
	PC CONC SIDEWALK 5" SUB GRAN MAT B, 4"



USER NAME = zpiend
 DESIGNED - DLP
 DRAWN - ENTRAN
 CHECKED - TMH
 DATE - 04/07/11

REVISED -
 REVISED -
 REVISED -
 REVISED -

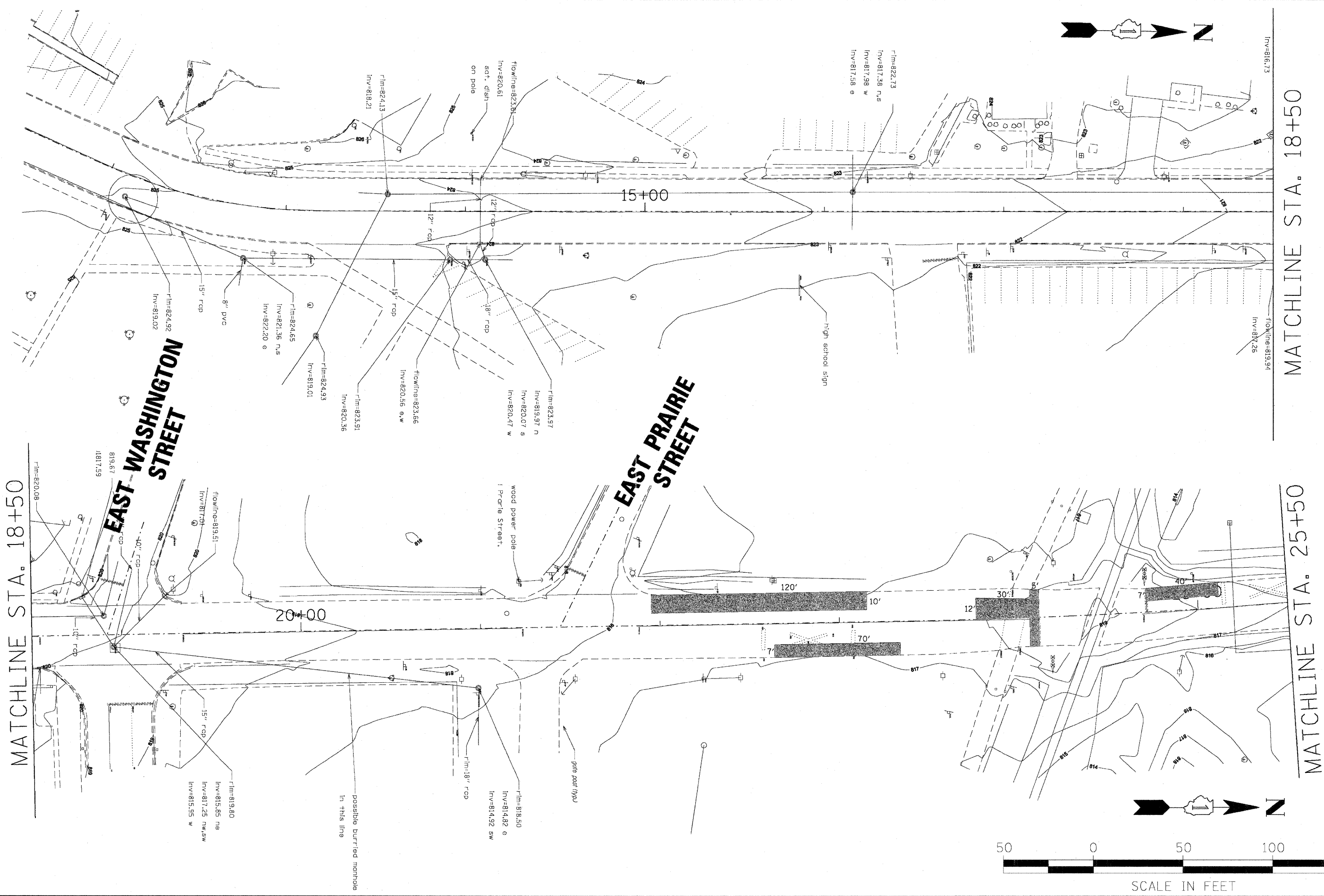
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP ROUTE 533 (IL RTE 176) OVER DRAINAGE DITCH (EAST OF IL RTE 23)
PROPOSED PLAN AND PROFILE
 SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 533	SECTION 119-T-1	COUNTY McHENRY	TOTAL SHEETS 40	SHEET NO. 11
IL ROUTE 176		CONTRACT NO. 60M54		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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CADD FILE NAME
NO.

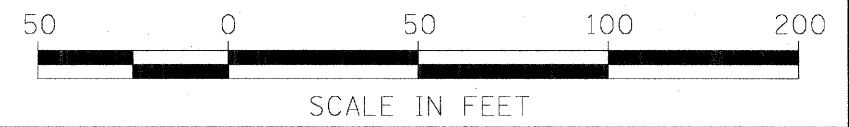
NO. & DATA
B.M. NOTED
STRUCTURE NOTATIONS OK'D
NO.



MATCHLINE STA. 18+50

MATCHLINE STA. 18+50

MATCHLINE STA. 25+50



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PLOT SCALE =		CHECKED -	REVISED -
PLOT DATE = 8/12/2011		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROSPECT ST. PATCHING SURVEY

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

F.A.P. RTE. 533	SECTION 119-T-1	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 13
				60M54

RT. OF WAY CHECKED
CADD FILE NAME

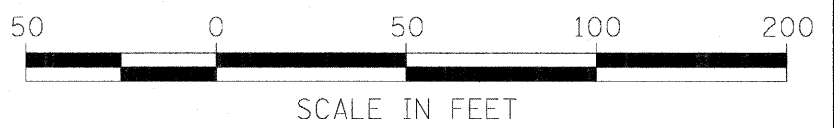
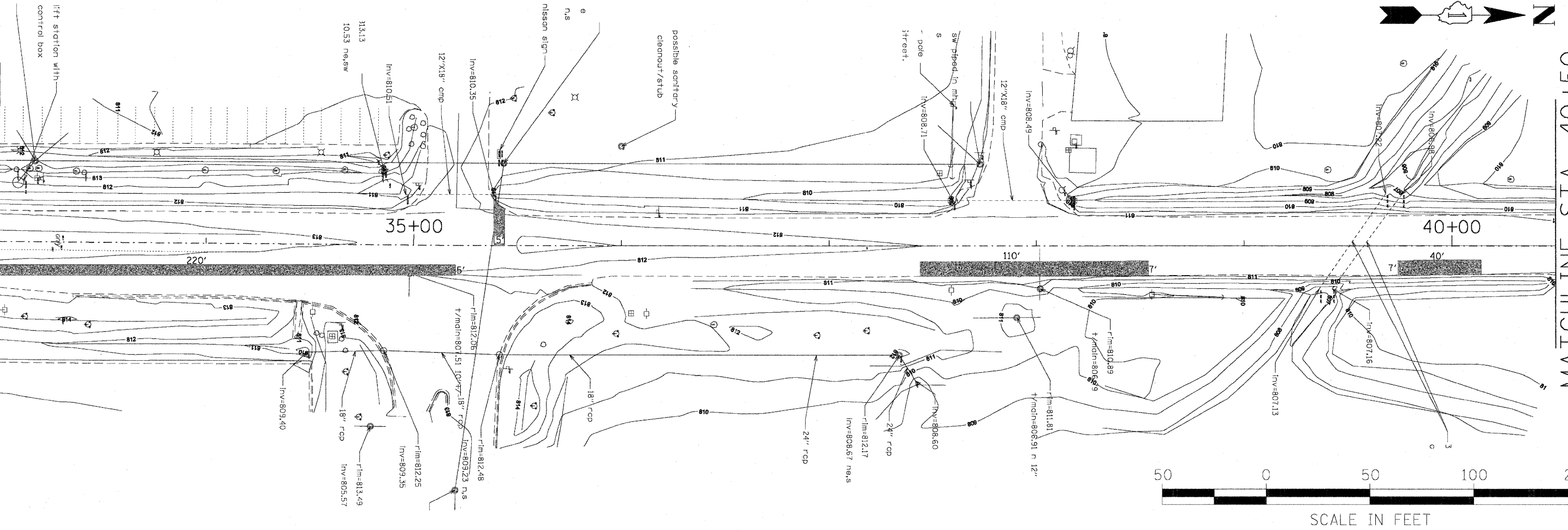
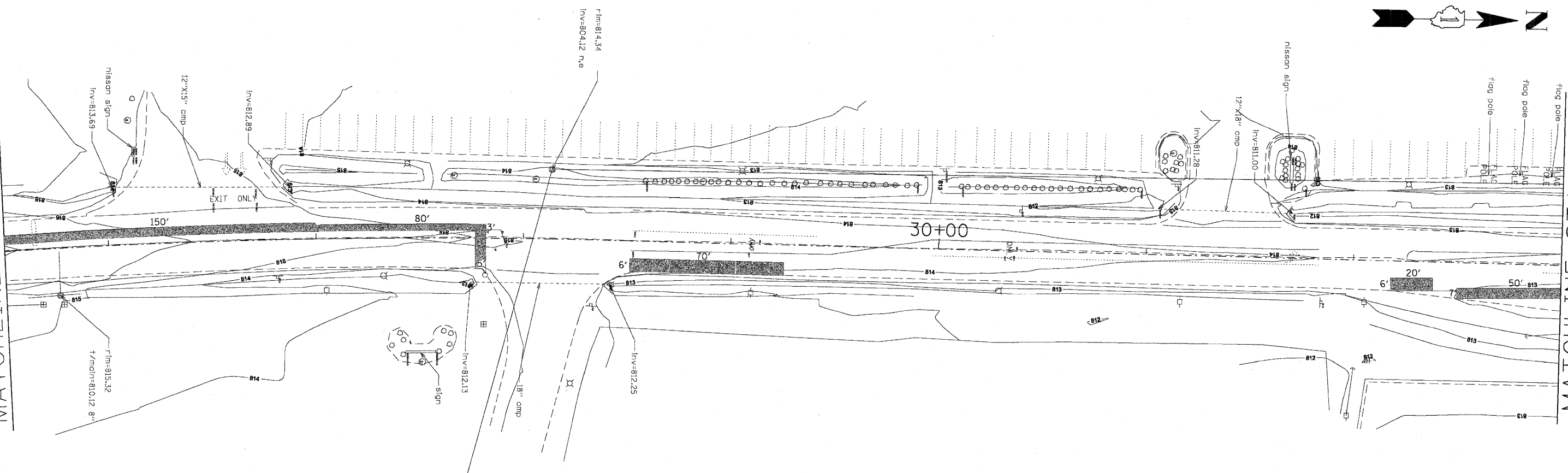
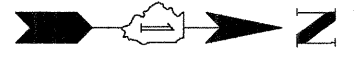
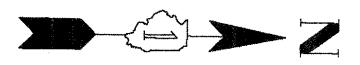
NO. 1
B.M. NOTED
STRUCTURE NOTATIONS OK'D

MATCHLINE STA. 25+50

MATCHLINE STA. 33+00

MATCHLINE STA. 33+00

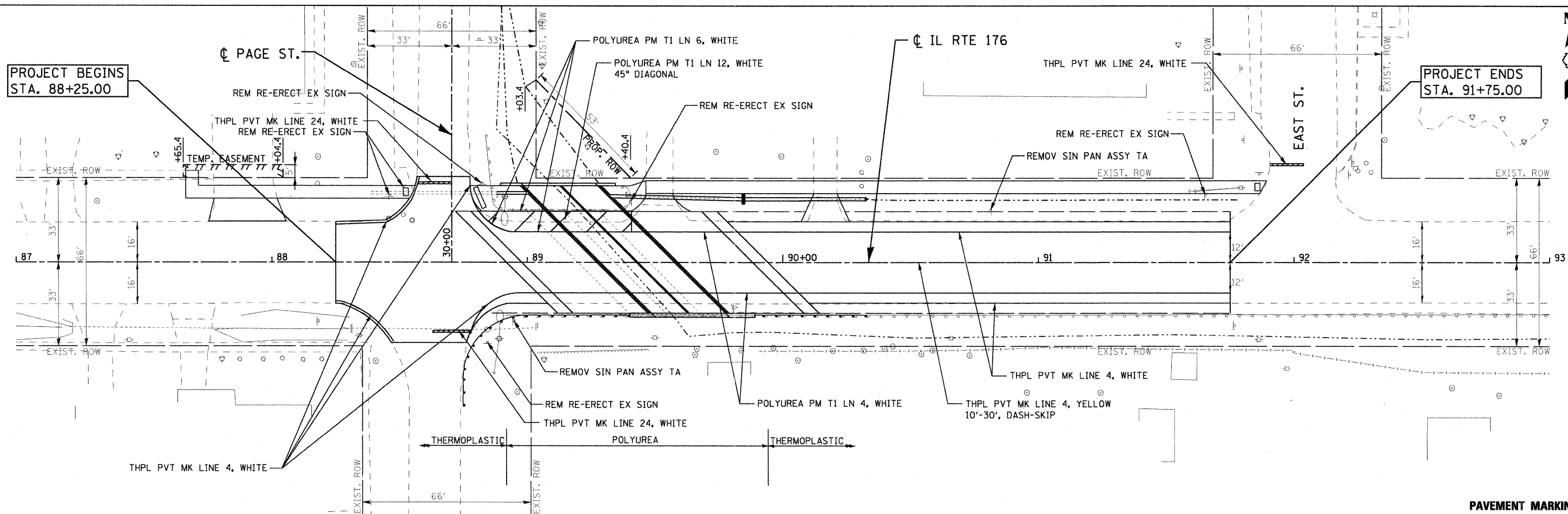
MATCHLINE STA. 40+50



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PLOT SCALE =	PLOT DATE = 8/12/2011	CHECKED DATE	REVISED - REVISED -					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

PROJECT BEGINS
STA. 88+25.00

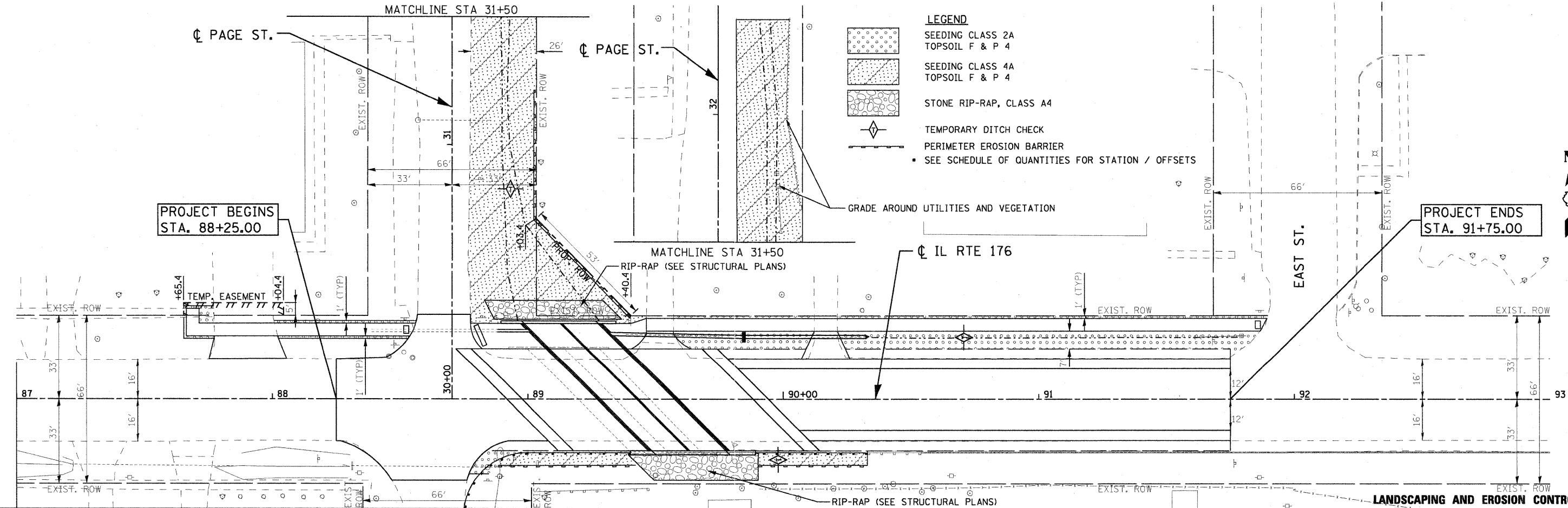
PROJECT ENDS
STA. 91+75.00



PAVEMENT MARKING

PROJECT BEGINS
STA. 88+25.00

PROJECT ENDS
STA. 91+75.00



LANDSCAPING AND EROSION CONTROL

- LEGEND**
- SEEDING CLASS 2A
TOPSOIL F & P 4
 - SEEDING CLASS 4A
TOPSOIL F & P 4
 - STONE RIP-RAP, CLASS A4
 - TEMPORARY DITCH CHECK
 - PERIMETER EROSION BARRIER
 - SEE SCHEDULE OF QUANTITIES FOR STATION / OFFSETS

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PLOT SCALE = 20.00' / 1" IN.	DRAWN - ENTRAN	REVISED -
PLOT DATE = 8/31/2011	CHECKED - TMH	REVISED -
	DATE - 04/07/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP ROUTE 533 (IL RTE 176) OVER DRAINAGE DITCH (EAST OF IL RTE 23)
PAVEMENT MARKING, LANDSCAPING, AND EROSION CONTROL

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

F.A.P. RTE. 533	SECTION 119-T-1	COUNTY McHENRY	TOTAL SHEETS 40	SHEET NO. 15
IL ROUTE 176		CONTRACT NO. 60M54		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Benchmark: Set cross cut on sidewalk at southwest corner of Illinois Route 176 and Taylor Street. Station 85+10 at 6.5' from EOP. Elev. 807.26.

Existing Structure: SN 056-0072 was originally constructed in 1930 as Federal Aid Project 189-A, Route 67, Section 119 as a 2 cell reinforced concrete culvert with 9'-0" spans and 3'-0" rise at a 45° skew. In 2001, the ends of the culvert and wingwalls were reconstructed. Traffic to be detoured during construction.

Precast alternate is not allowed.

No salvage.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream 799.20	Downstream 799.03
------------------------------	-----------------	-------------------

INDEX OF SHEETS

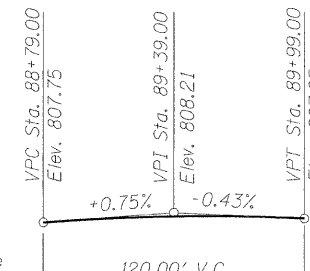
- S1. General Plan and Elevation
- S2. Top of Slab Elevations
- S3. Culvert Details (1 of 2)
- S4. Culvert Details (2 of 2)
- S5. Approach Slab Details (1 of 2)
- S6. Approach Slab Details (2 of 2)
- S7. Parapet Railing
- S8. Boring Logs
- S9. Existing Culvert Plans

GENERAL 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. All exposed edges of concrete shall be beveled 3/4".

LEGEND

- Proposed Guard Rail
- Existing Aerial Line
- Existing Underground Telephone Line
- Existing Storm Sewer
- Existing Underground Gasline



Brad H. Sayers
BRAD H. SAYERS, S.E.
 IL. LIC. NO. 081-006267
 EXP 11/30/12
 DATE 10/15/11

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
J. Paul Payne (TS)
 ENGINEER OF BRIDGES AND STRUCTURES

PROFILE GRADE
 along Illinois Route 176

TOTAL BILL OF MATERIAL

ITEM	UNIT	QTY.
Removal and Disposal of Unsuitable Material	Cu Yd	93
Porous Granular Embankment	Cu Yd	93
Stone Riprap, Class A4	Sq Yd	90
Filter Fabric	Sq Yd	90
Removal of Existing Structures	Each	1
Floor Drains	Each	4
Concrete Structures	Cu Yd	35.7
Concrete Superstructure	Cu Yd	176.1
Bridge Deck Grooving	Sq Yd	427
Protective Coat	Sq Yd	474
Reinforcement Bars, Epoxy Coated	Pound	81,540
Parapet Railing	Foot	49
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	104.8
Geocomposite Wall Drain	Sq Yd	10
Porous Granular Embankment, Special	Cu Yd	14

LOADING HS 20-44

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

DESIGN STRESSES

FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges 17th Edition

WATERWAY INFORMATION

Drainage Area = 6.48 sq. mi. Low Grade Elev. 807.40 @ Sta. 86+00

Flood Yr.	Freq. Q	C.F.S. Exist.	Opening Sq. Ft. Prop.	Nat. Prop.	H.W.E. Exist.	H.W.E. Prop.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
10	380	54	66	66	808.52	808.52	0.00	0.00	808.52	808.52
Design	50	492	54	66	808.75	808.75	0.00	0.00	808.75	808.75
Base	100	688	54	66	808.77	808.77	0.00	0.00	808.77	808.77
Overtopping	<10yr									
Max. Calc.	500	863	54	66	808.89	808.89	0.00	0.00	808.89	808.89

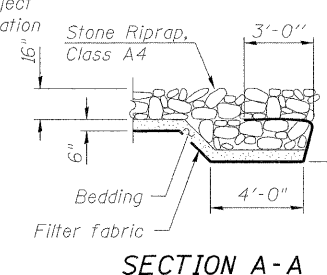
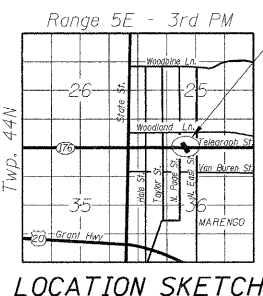
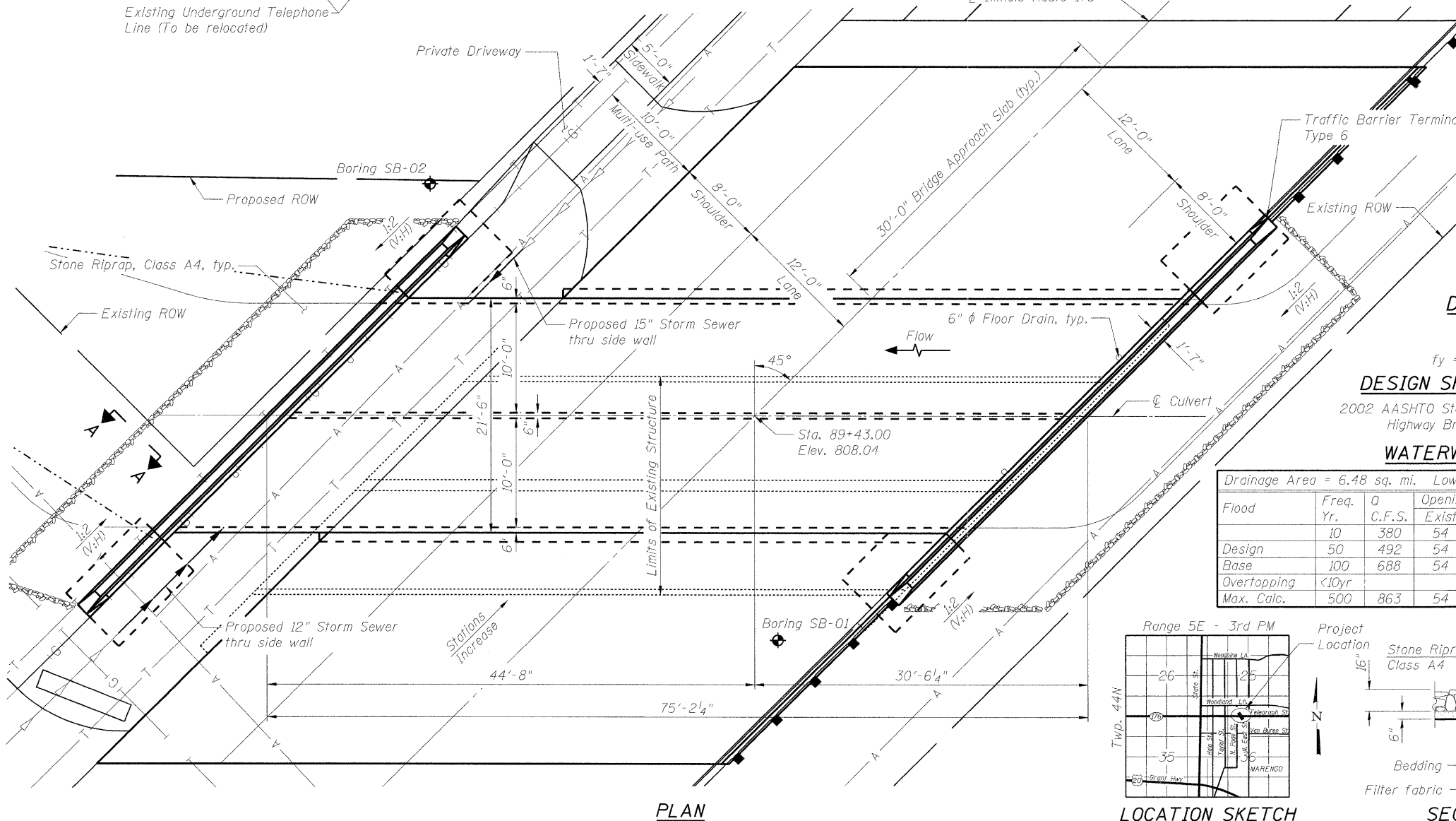
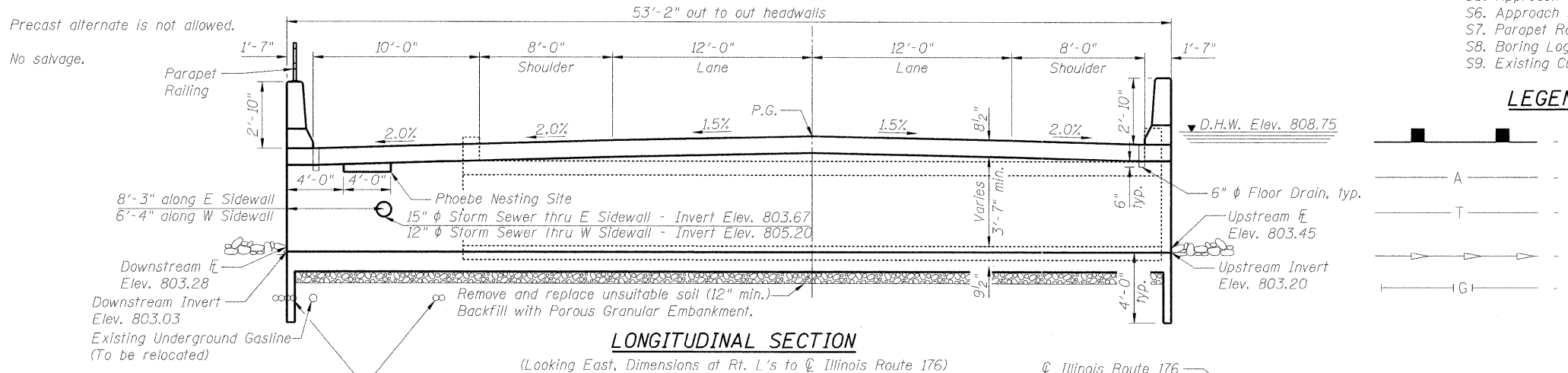
STATION 89+43.00
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. RTE. 533
 SEC. 119-T-1
 LOADING HS20
 STR. NO. 056-0301

NAME PLATE

See Highway Standard 515001-03 for dimensions and placement

**GENERAL PLAN AND ELEVATION
 ILLINOIS ROUTE 176 OVER DRAINAGE DITCH
 F.A.P. ROUTE 533 - SECTION 119-T-1**

**MCHENRY COUNTY
 STATION 89+43.00
 STRUCTURE NO. 056-0301**



ENTRAN
 USER NAME = Zsagerb
 PLOT SCALE = N/A
 PLOT DATE = 10/15/2011

DESIGNED - BPS	REVISOR -
CHECKED - BHS	REVISIONS -
DRAWN - BPS	REVISIONS -
CHECKED - BHS	REVISIONS -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
 S.N. 056-0301
 SHEET NO. S1 OF 9 SHEETS**

F.A.P. RTE. 533	SECTION 119-T-1	COUNTY MCHENRY	TOTAL SHEETS 40	SHEET NO. 16
IL ROUTE 176		CONTRACT NO. 60M54		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FILE NAME: G:\projects\2012\15_002\CADD\Structure\SN\056-0301-001\General Plan and Elevation.dgn

WB FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
W. End of Culvert	88+97.80	-30.00	807.33
B1	89+07.80	-30.00	807.39
B2	89+17.80	-30.00	807.43
E. End of Culvert	89+28.20	-30.00	807.46

WB SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pav't	88+77.80	-20.00	807.40
A1	88+87.80	-20.00	807.47
A2	88+97.80	-20.00	807.53
W. End of Culvert	89+07.80	-20.00	807.59
B1	89+17.80	-20.00	807.63
B2	89+27.80	-20.00	807.66
E. End of Culvert	89+38.20	-20.00	807.68
C1	89+48.20	-20.00	807.69
C2	89+58.20	-20.00	807.70
E. End of E. Appr. Pav't	89+68.20	-20.00	807.69

WB LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pav't	88+85.80	-12.00	807.62
A1	88+95.80	-12.00	807.68
A2	89+05.80	-12.00	807.74
W. End of Culvert	89+15.80	-12.00	807.78
B1	89+25.80	-12.00	807.81
B2	89+35.80	-12.00	807.84
E. End of Culvert	89+46.20	-12.00	807.85
C1	89+56.20	-12.00	807.86
C2	89+66.20	-12.00	807.85
E. End of E. Appr. Pav't	89+76.20	-12.00	807.83

ILLINOIS ROUTE 176

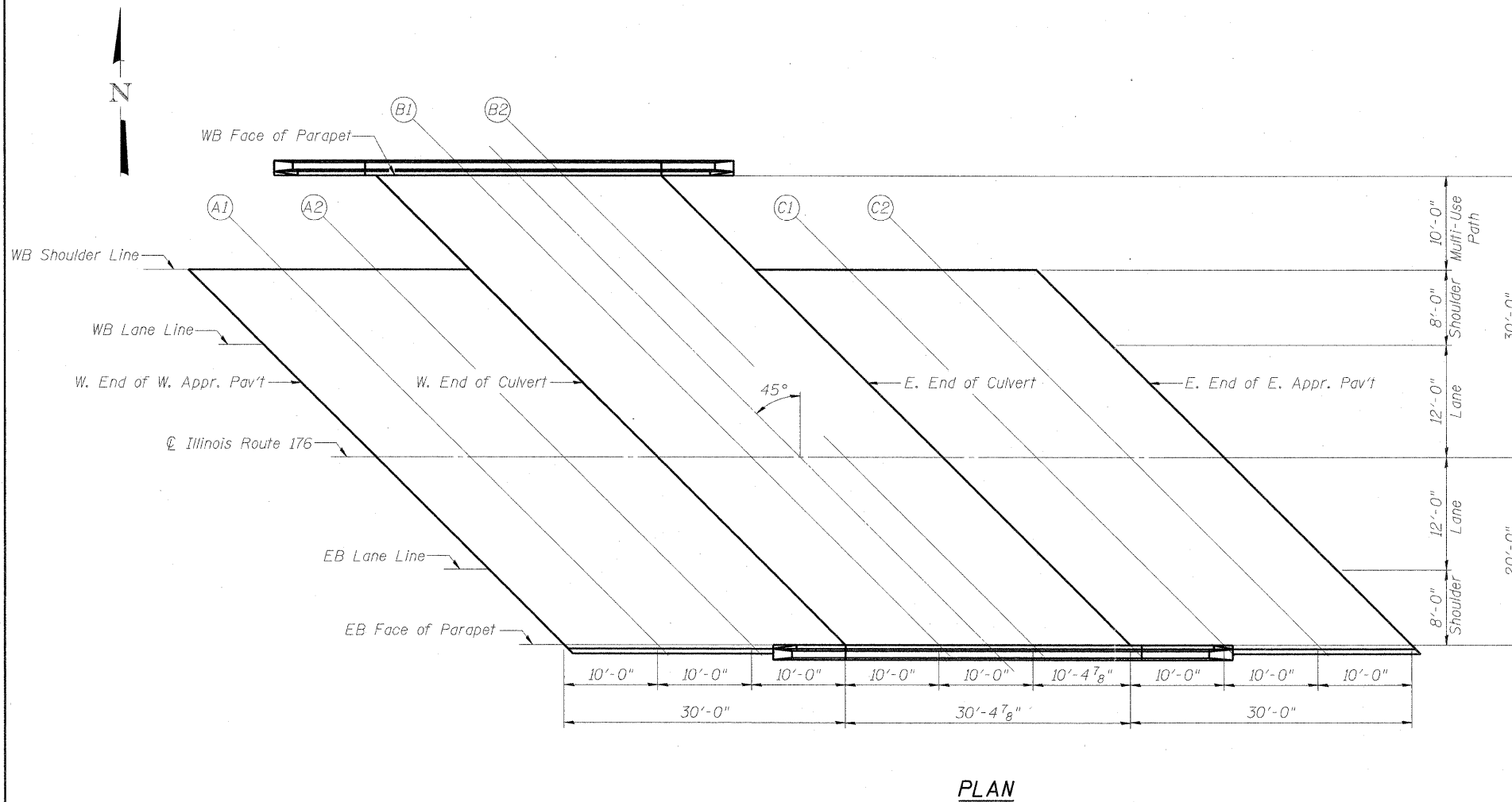
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pav't	88+97.80	0.00	807.87
A1	89+07.80	0.00	807.93
A2	89+17.80	0.00	807.97
W. End of Culvert	89+27.80	0.00	808.00
B1	89+37.80	0.00	808.02
B2	89+47.80	0.00	808.03
E. End of Culvert	89+58.20	0.00	808.04
C1	89+68.20	0.00	808.03
C2	89+78.20	0.00	808.01
E. End of E. Appr. Pav't	89+88.20	0.00	807.98

EB LANE LINE

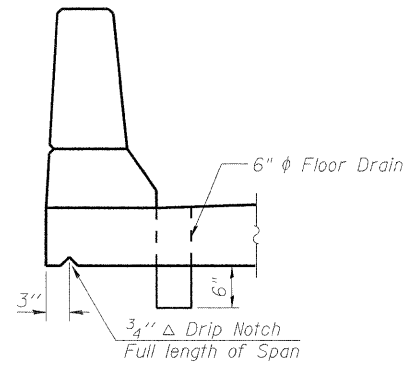
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pav't	89+09.80	12.00	807.75
A1	89+19.80	12.00	807.79
A2	89+29.80	12.00	807.82
W. End of Culvert	89+39.80	12.00	807.84
B1	89+49.80	12.00	807.85
B2	89+59.80	12.00	807.86
E. End of Culvert	89+70.20	12.00	807.85
C1	89+80.20	12.00	807.83
C2	89+90.20	12.00	807.80
E. End of E. Appr. Pav't	90+00.20	12.00	807.76

EB FACE OF PARAPET

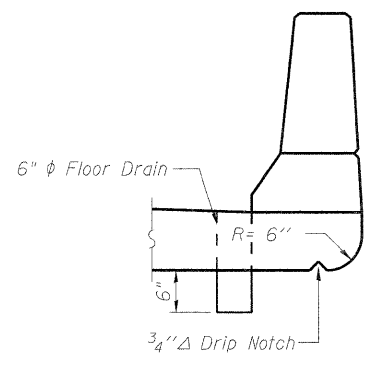
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pav't	89+17.80	20.00	807.63
A1	89+27.80	20.00	807.66
A2	89+37.80	20.00	807.68
W. End of Culvert	89+47.80	20.00	807.69
B1	89+57.80	20.00	807.70
B2	89+67.80	20.00	807.69
E. End of Culvert	89+78.20	20.00	807.67
C1	89+88.20	20.00	807.64
C2	89+98.20	20.00	807.61
E. End of E. Appr. Pav't	90+08.20	20.00	807.57



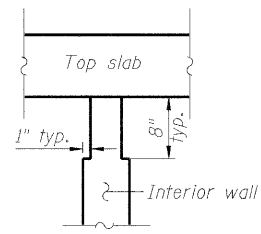
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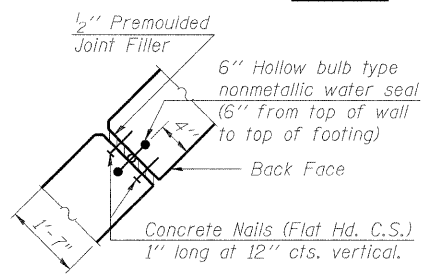
**DETAIL AT
DOWNSTREAM END**



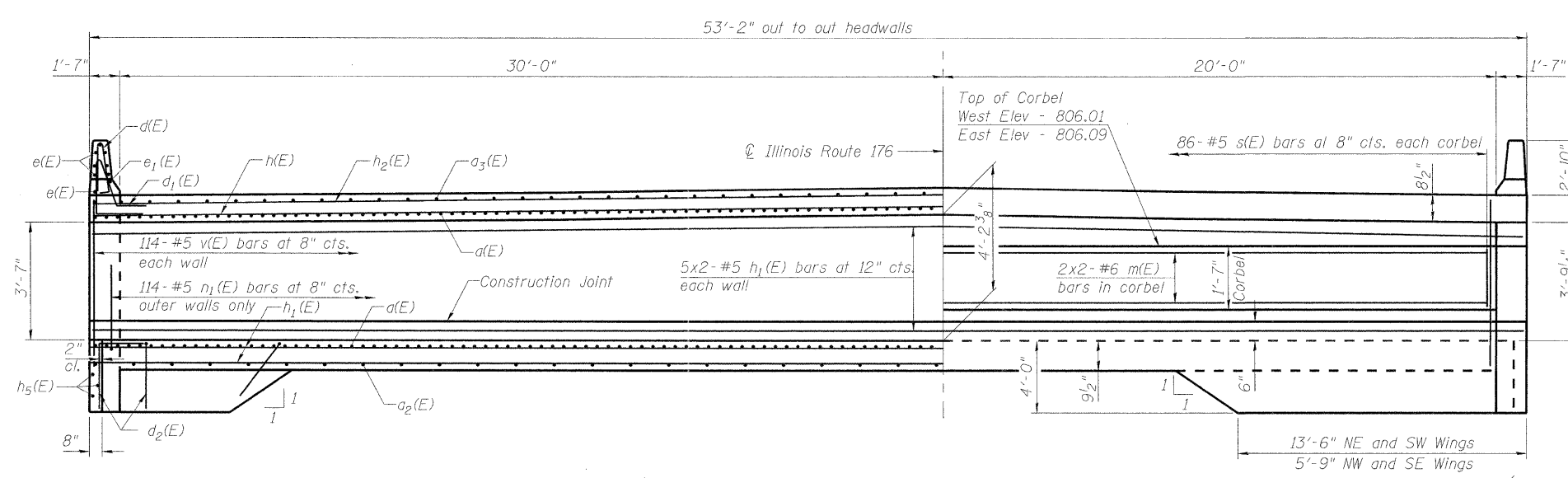
**DETAIL AT
UPSTREAM END**



**PHOEBE NESTING SITE
DETAIL**

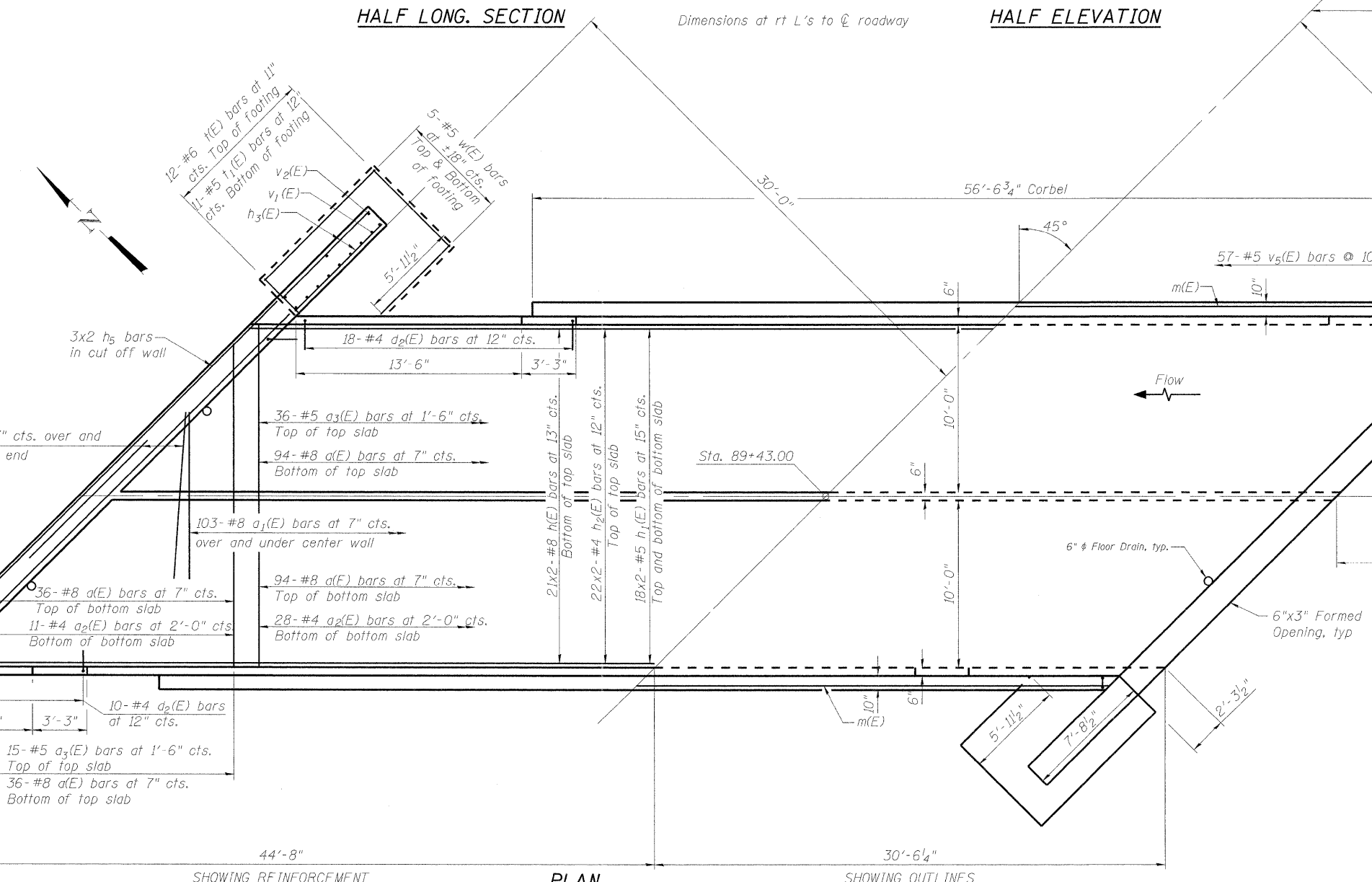


DETAIL A



HALF LONG. SECTION

HALF ELEVATION



SHOWING REINFORCEMENT

PLAN

SHOWING OUTLINES

Notes:
Cut $a_1(E)$, $a_2(E)$, and $a_3(E)$ bars to fit skew. Use balance of bars in opposite end.
Cut $t(E)$, $f_1(E)$, and $w(E)$ bars to fit as needed.

MINIMUM BAR LAPS

- #4 bar = 2'-1"
- #5 bar = 2'-7"
- #6 bar = 3'-1"
- #8 bar = 5'-5"

FILE NAME = G:\Projects\2102155_002\CADD\Structure\Sh1\0560301-08NE4-003-Culvert-Details 1 of 2.dgn



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PLOT SCALE = N/A
PLOT DATE = 10/15/2011

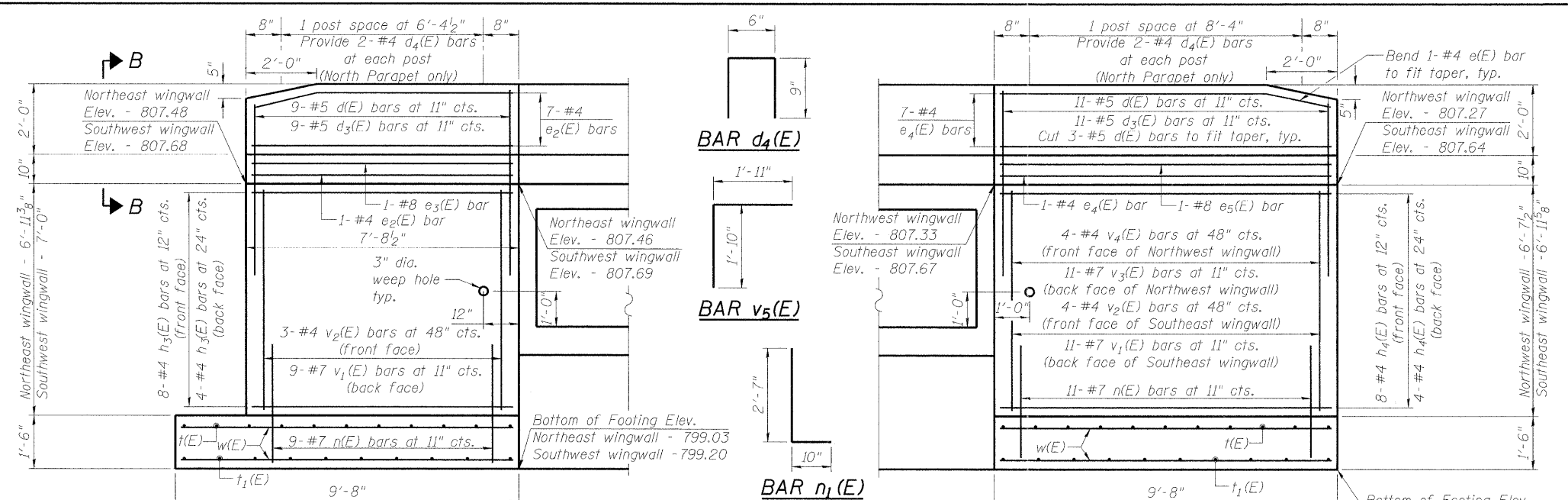
DESIGNED - BPS	REVISED -
CHECKED - BHS	REVISED -
DRAWN - BPS	REVISED -
CHECKED - BHS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

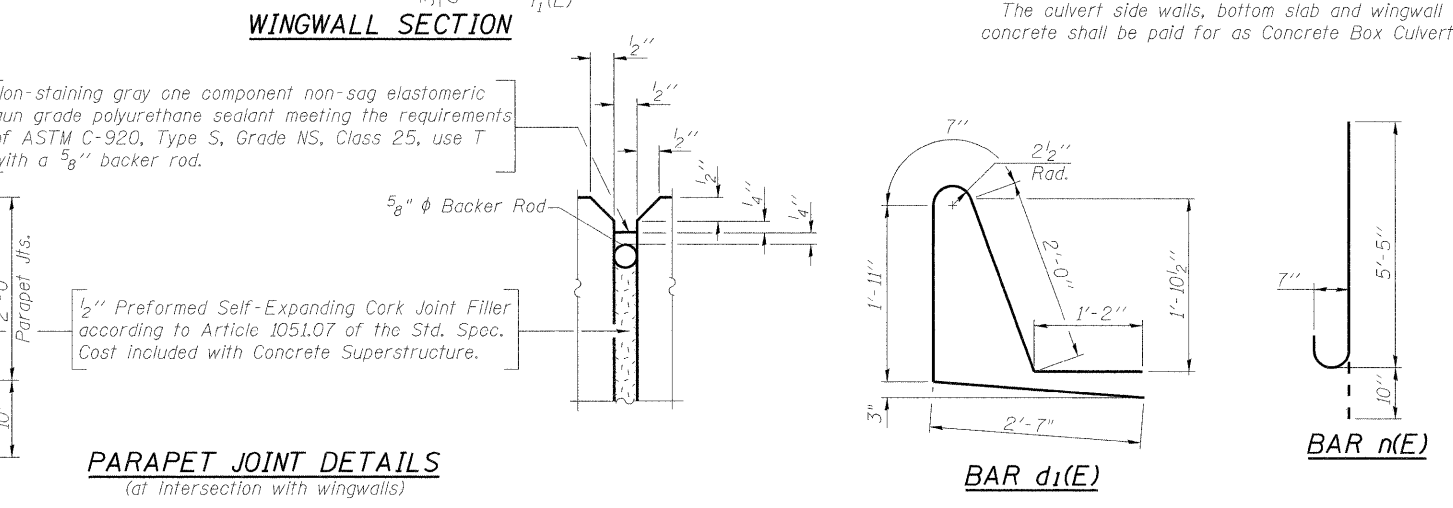
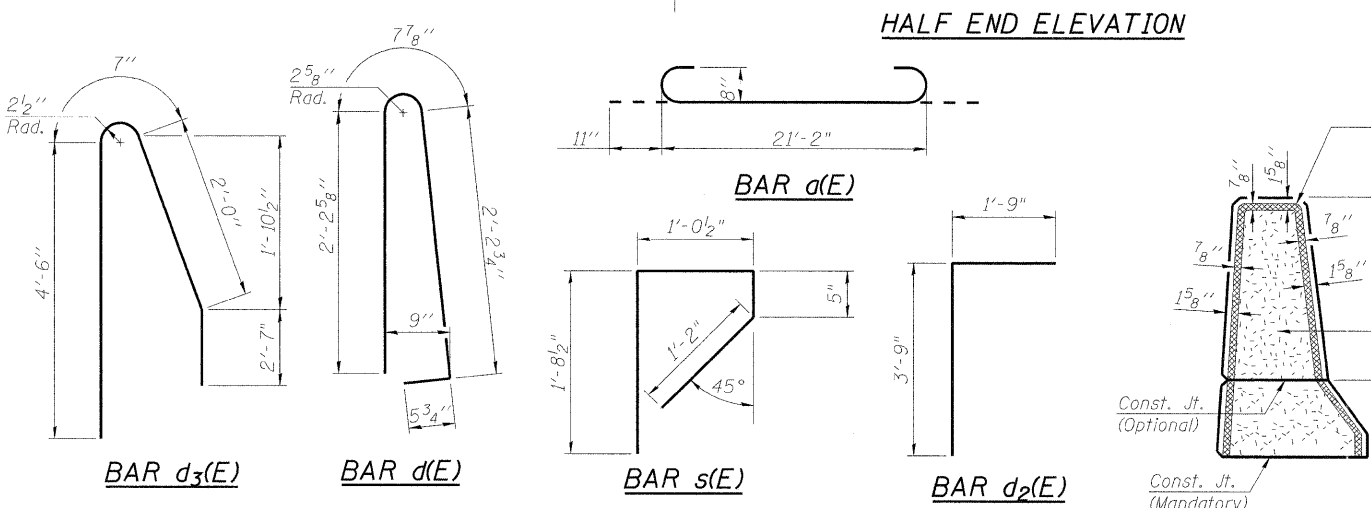
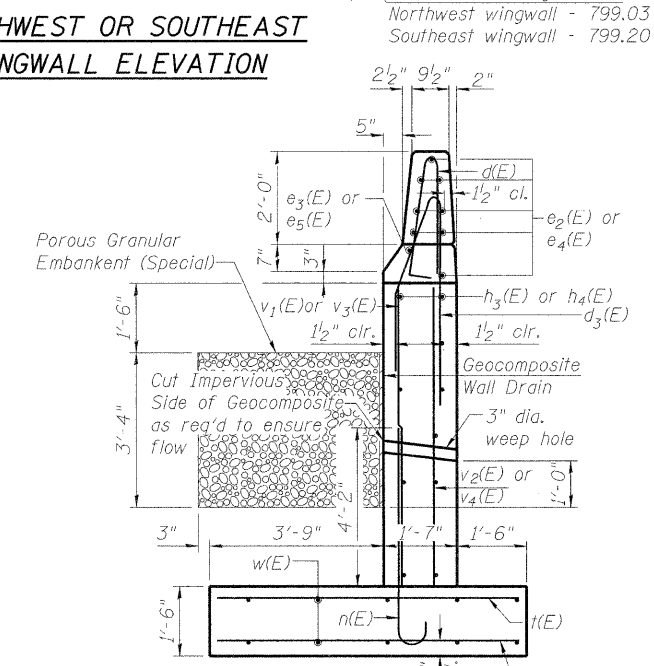
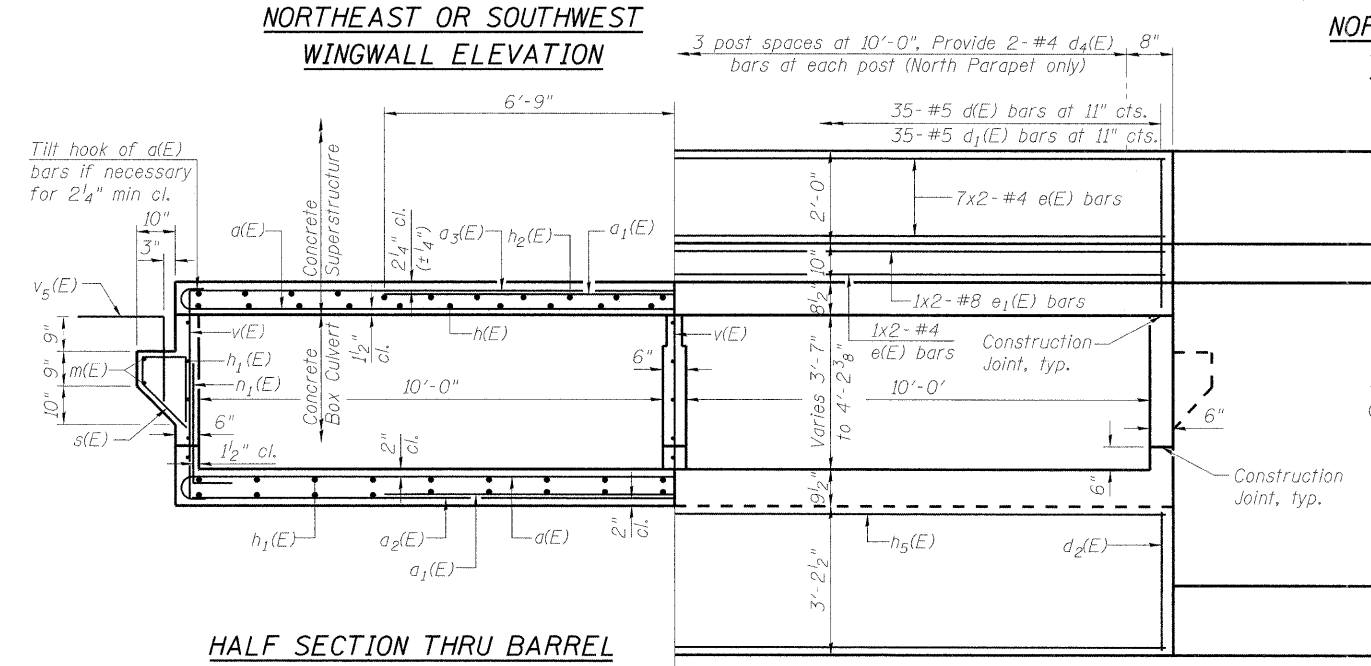
**CULVERT DETAILS (1 OF 2)
S.N. 056-0301**

F.A.P. RTE. 533	SECTION 119-T-1	COUNTY MCHEMRY	TOTAL SHEETS 40	SHEET NO. 18
IL ROUTE 176	CONTRACT NO. 60M54			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SHEET NO. 53 OF 9 SHEETS



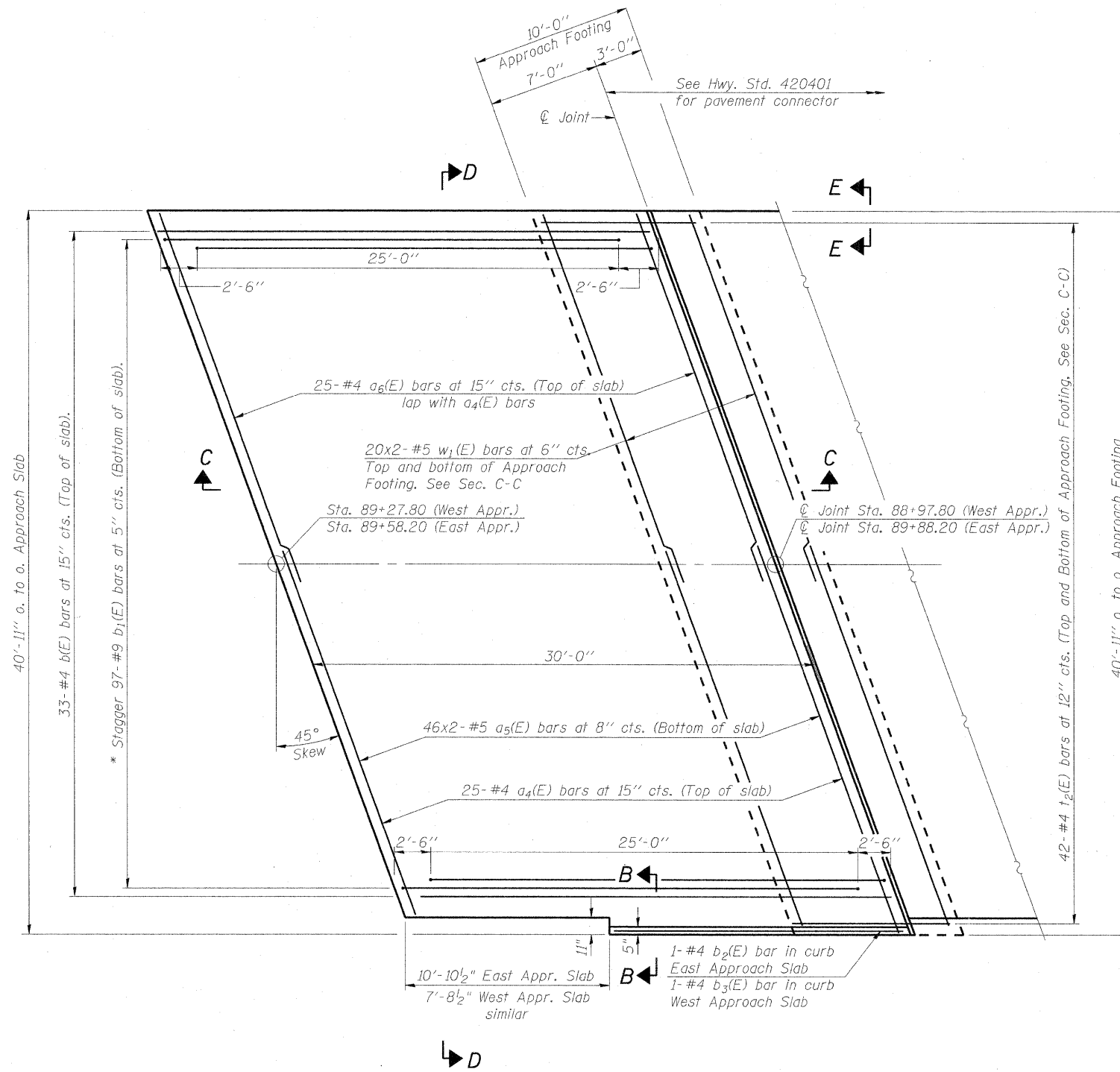
BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a(E)	260	#8	23'-0"	[Symbol]
a1(E)	254	#8	13'-6"	[Symbol]
a2(E)	39	#4	21'-2"	[Symbol]
a3(E)	51	#5	21'-2"	[Symbol]
d(E)	110	#5	5'-7"	[Symbol]
d1(E)	70	#5	8'-3"	[Symbol]
d2(E)	100	#4	5'-6"	[Symbol]
d3(E)	40	#5	9'-8"	[Symbol]
d4(E)	16	#4	2'-0"	[Symbol]
e(E)	32	#4	17'-0"	[Symbol]
e1(E)	4	#8	18'-4"	[Symbol]
e2(E)	16	#4	7'-5"	[Symbol]
e3(E)	2	#8	7'-5"	[Symbol]
e4(E)	16	#4	9'-4"	[Symbol]
e5(E)	2	#8	9'-4"	[Symbol]
h(E)	42	#8	40'-2"	[Symbol]
h1(E)	102	#5	38'-9"	[Symbol]
h2(E)	44	#4	38'-6"	[Symbol]
h3(E)	24	#4	7'-5"	[Symbol]
h4(E)	24	#4	9'-4"	[Symbol]
h5(E)	12	#5	16'-11"	[Symbol]
m(E)	8	#6	29'-8"	[Symbol]
n(E)	40	#7	6'-3"	[Symbol]
n1(E)	228	#5	3'-5"	[Symbol]
s(E)	172	#5	4'-4"	[Symbol]
t(E)	48	#6	6'-6"	[Symbol]
t1(E)	44	#5	6'-6"	[Symbol]
v(E)	342	#5	4'-9"	[Symbol]
v1(E)	29	#7	6'-8"	[Symbol]
v2(E)	10	#4	6'-8"	[Symbol]
v3(E)	11	#7	6'-3"	[Symbol]
v4(E)	4	#4	6'-3"	[Symbol]
v5(E)	114	#5	3'-9"	[Symbol]
w(E)	40	#5	9'-4"	[Symbol]
Concrete Superstructure			Cu Yd	53.4
Concrete Box Culverts			Cu Yd	104.8
Reinforcement Bars, Epoxy Coated			Pound	46,260



FILE NAME = G:\projects\2102155_002\CADD\Structure\G1\0560301-60M54-004-Culvert Details 2 of 2.dwg

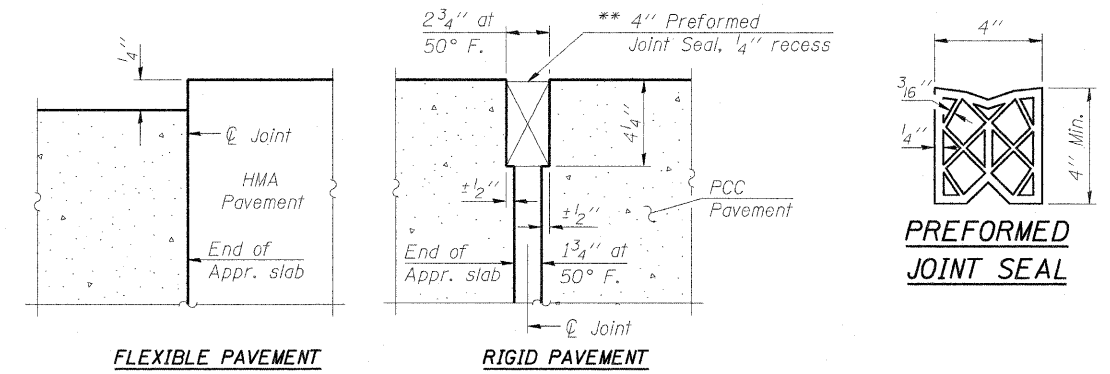
Notes:
 See sheet S6 of 9 for Sections C-C & D-D.
 $a_4(E)$, $a_5(E)$ and $a_6(E)$ bar spacings measured along \varnothing Rdwy.

** Cost included with Concrete Superstructure.

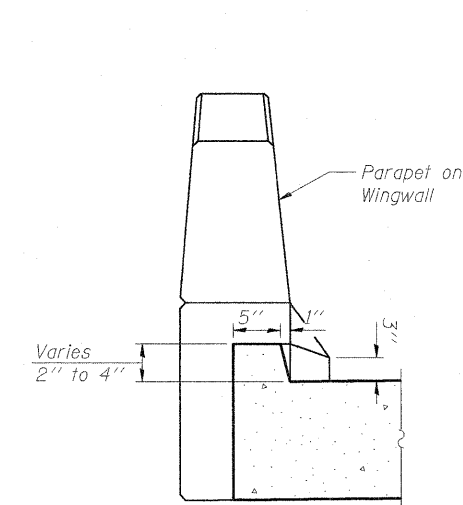


PLAN

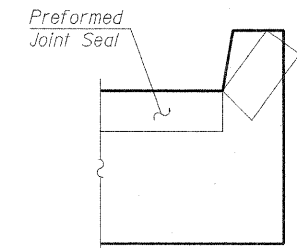
* Tilt #9 $b_1(E)$ bars as required to maintain clearance.



DETAIL A



VIEW B-B



VIEW E-E

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

MINIMUM BAR LAPS

- #4 Bar - 2'-1"
- #5 Bar - 2'-7"

FILE NAME = G:\projects\2102195_002\CADD\Structure\Sh\VEGB\301-52MB\4-005-Approach Slab Details 1 of 2.dgn



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PLOT SCALE = N/A
PLOT DATE = 9/7/2011

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CHECKED - BHS
DRAWN - BPS
CHECKED - BHS

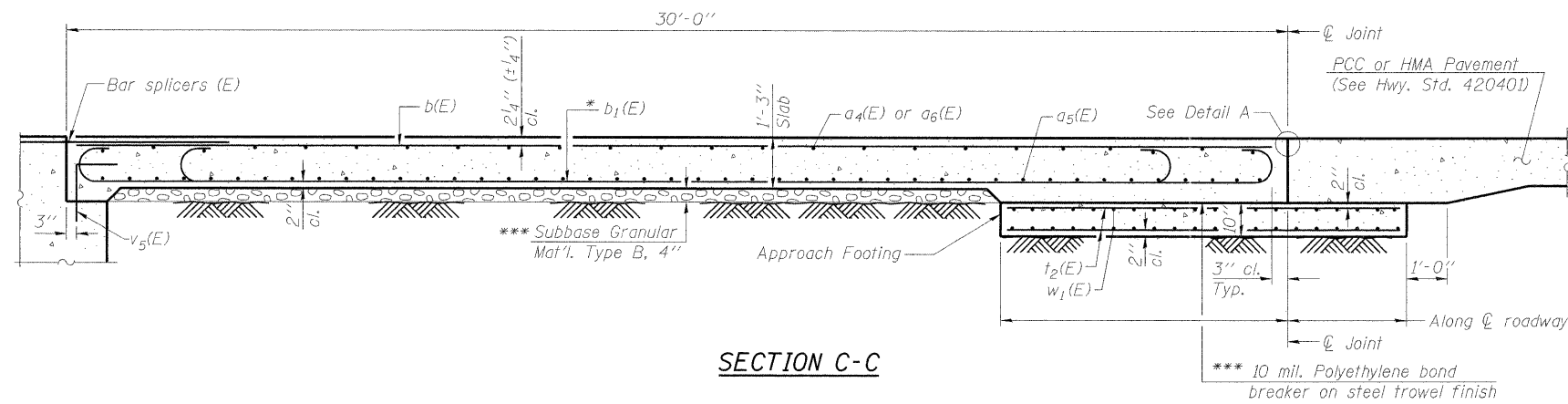
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**APPROACH SLAB DETAILS (1 OF 2)
 S.N. 056-0301**

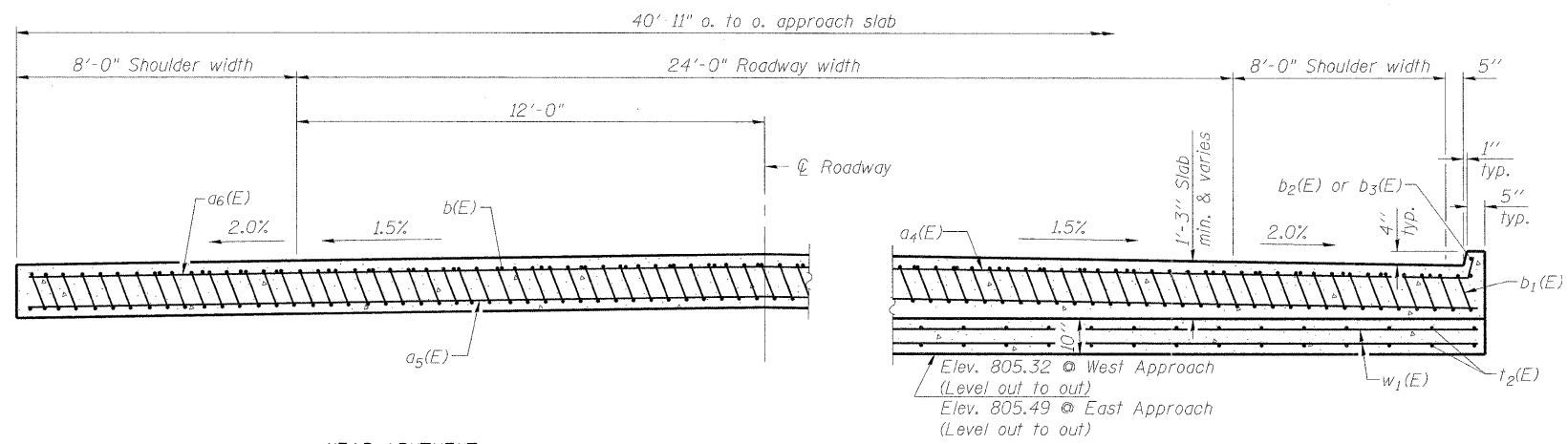
SHEET NO. S5 OF 9 SHEETS

F.A.P. RTE. 533	SECTION 119-T-1	COUNTY McHENRY	TOTAL SHEETS 40	SHEET NO. 20
IL ROUTE 176		CONTRACT NO. 60M54		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SECTION C-C

Notes:
 See sheet S5 of 9 for Detail A.
 Approach slab 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 $v_5(E)$ bar details, see sheet S4 of 9.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 For bar splicer details, see sheet S4 of 9.
 Cost of excavation for approach footing included with Concrete Structures.



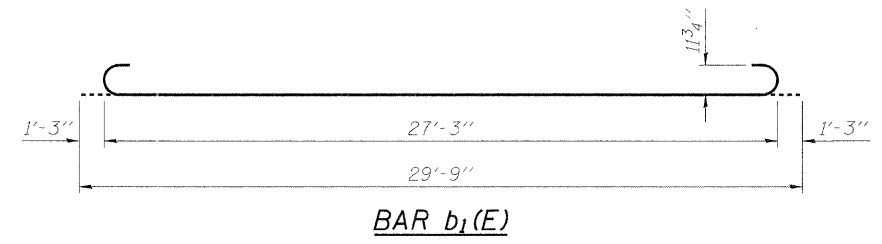
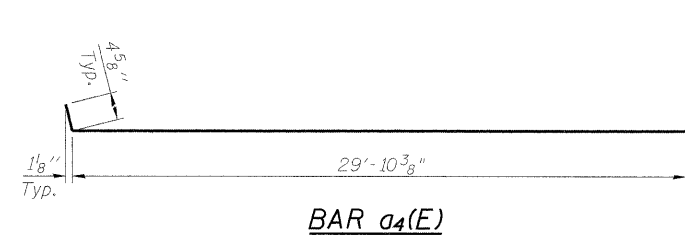
SECTION D-D

(See Plan for dimensions not shown)

* Tilt #9 $b_1(E)$ bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

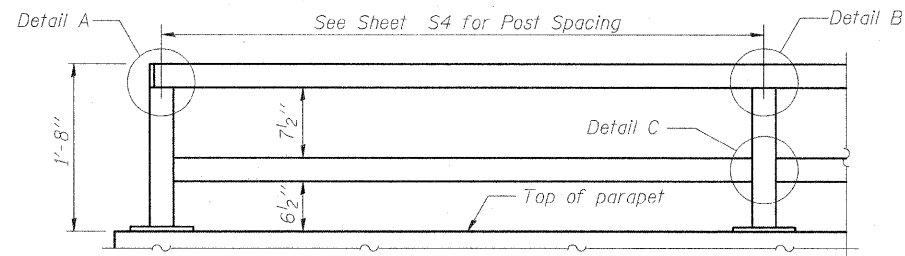
**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$a_4(E)$	50	#4	30'-3"	—
$a_5(E)$	184	#5	30'-0"	—
$a_6(E)$	50	#4	29'-11"	—
$b(E)$	66	#4	29'-8"	—
$b_1(E)$	194	#9	29'-9"	—
$b_2(E)$	1	#4	18'-9"	—
$b_3(E)$	1	#4	21'-11"	—
$t_2(E)$	168	#4	13'-8"	—
$w_1(E)$	160	#5	30'-1"	—
Concrete Superstructure			Cu. Yd.	122.7
Concrete Structures			Cu. Yd.	35.7
Reinforcement Bars, Epoxy Coated			Pound	35,280

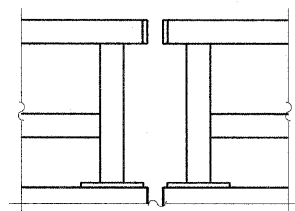


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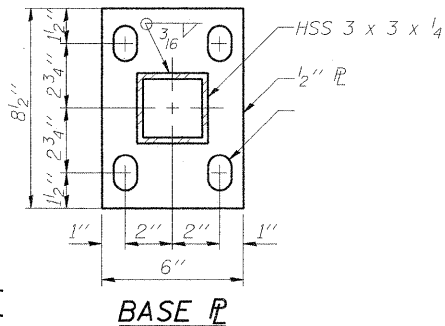
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	PLOT SCALE = N/A	DRAWN - BPS	REVISED -			IL ROUTE 176	CONTRACT NO. 60M54			
	PLOT DATE = 10/15/2011	CHECKED - BHS	REVISED -			SHEET NO. S6 OF 9 SHEETS				
							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



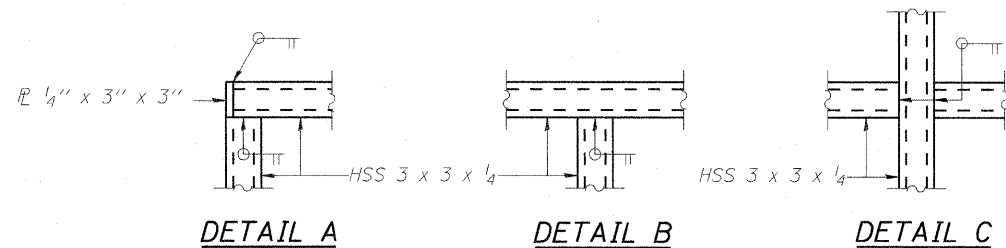
**PARAPET RAILING
ELEVATION**
(10'-0" Maximum Post Spacing)
(Inside Face of Two Element Rail)



**PARAPET RAILING
ELEVATION AT EXPANSION JOINT**



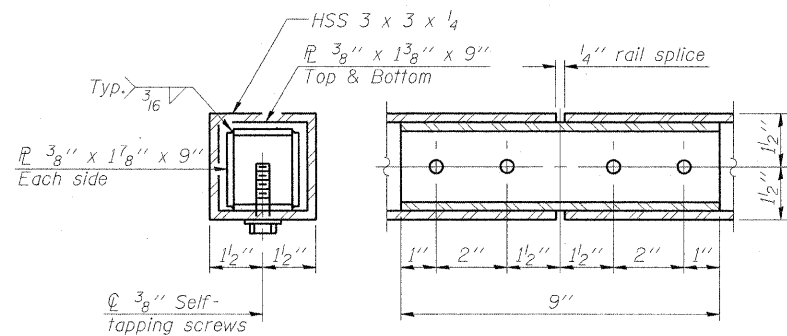
BASE PLATE



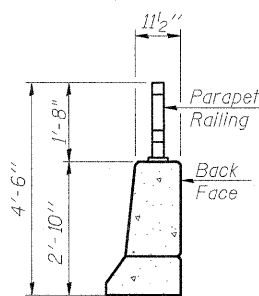
DETAIL A

DETAIL B

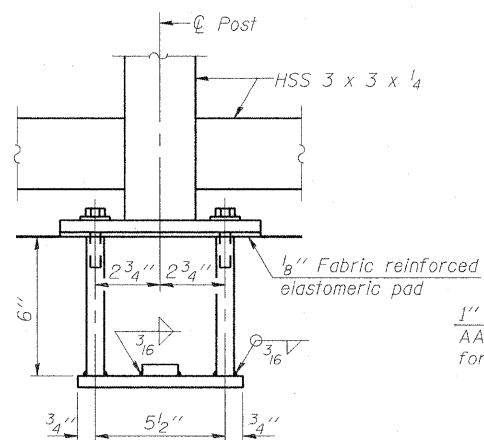
DETAIL C



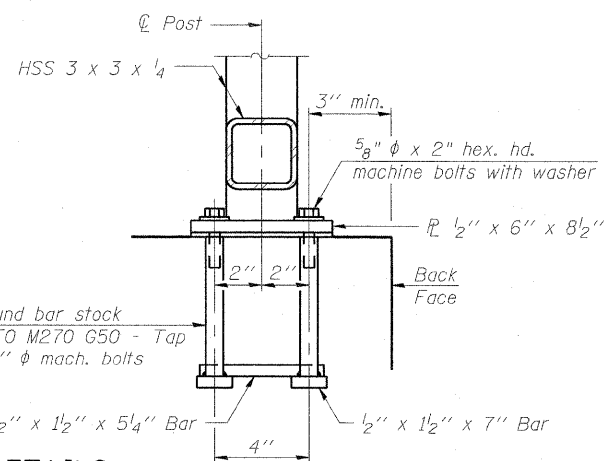
RAIL SPLICE



SECTION THRU DECK



ANCHOR BOLT DETAILS



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.

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	49

FILE NAME = G:\projects\2102155_022\CADD\Structure\Sheet\0568301-60M54-107-Parapet Railing.dgn



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	CHECKED - BHS	REVISD -

DESIGNED - BPS	REVISD -
CHECKED - BHS	REVISD -
DRAWN - BPS	REVISD -
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DESIGNED - BPS	REVISD -
CHECKED - BHS	REVISD -
DRAWN - BPS	REVISD -
CHECKED - BHS	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARAPET RAILING
S.N. 056-0301**

SHEET NO. 57 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	119-T-1	McHENRY	40	22
IL ROUTE 176			CONTRACT NO. 60M54	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BORING LOG SB-01 Page 1 of 1

wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 255-25-01

Client: **ENTRAN**

Project: **IL 176 over Drainage Ditch**

Location: **NW1/4 Sec. 36, T44N, R5E - 3rd PM**

Datum: NGVD
Elevation: 807.00 ft
North: ft
East: ft
Station: 89+30
Offset: 16.0 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
	808.1	11-inch thick ASPHALT --SHOULDER PAVEMENT--							781.5	Medium dense, brown GRAVELLY SAND		11	4 4 7	NP	9
		Loose, black and dark brown SANDY LOAM, trace GRAVEL		1	4 4 5	NP	17		779.0	Medium dense, brown, fine to medium SAND, trace GRAVEL		12	3 7 14	NP	14
		--%Gravel=7.3-- --%Sand=63.0-- --%Silt=22.1-- --%Clay=7.6-- --A-2-4(0)--		2	1 2 2	NP	12		777.6	Boring terminated at 30.00 ft		30			
	801.5	Medium dense, brown SANDY LOAM		3	4 5 6	NP	16								
	799.0	Very loose to loose, brown to gray, medium to coarse SAND, trace GRAVEL		4	1 0 1	NP	17								
		--%Gravel=4.9- 10-- --%Sand=87.1-- --%Silt=7.6-- --%Clay=0.3-- --A-3(0)--		5	2 3 3	NP	19								
				6	1 1 3	NP	16								
				7	3 2 2	NP	13								
	789.0	Loose, brown, fine SAND		8	3 5 3	NP	24								
	786.5	Loose, brown, medium to coarse SAND, trace GRAVEL		9	2 2 6	NP	11								
				10	2 2 4	NP	14								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-03-2010	Complete Drilling	12-03-2010	While Drilling	▽	6.00 ft	
Drilling Contractor	WTS	Drill Rig	Mobile B-57 TMR	At Completion of Drilling	▽	4.00 ft	
Driller	R&J	Logger	N. Boddy	Time After Drilling	NA		
Checked by	C. Marin	Depth to Water	▽	NA			
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

BORING LOG SB-02 Page 1 of 1

wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 255-25-01

Client: **ENTRAN**

Project: **IL 176 over Drainage Ditch**

Location: **NW1/4 Sec. 36, T44N, R5E - 3rd PM**

Datum: NGVD
Elevation: 810.00 ft
North: ft
East: ft
Station: 89+37
Offset: 36.0 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
	807.3	33-inch thick, black LOAM --TOPSOIL--		1	5 5 6	NP	19		782.0	Medium dense to dense, brown and gray GRAVELLY SAND		11	4 9 14	NP	14
		Loose, dark brown SANDY LOAM		2	4 3 2	NP	11		780.0	Boring terminated at 30.00 ft		30			
	804.5	Very loose to loose, brown and gray, fine to coarse SAND		3	1 1 1	NP	23								
				4	1 1 1	NP	23								
				5	1 2 2	NP	15								
				6	2 2 2	NP	11								
				7	1 0 1	NP	23								
				8	2 1 3	NP	18								
				9	2 3 5	NP	13								
	787.0	Medium dense, brown and gray, fine to coarse SAND		10	5 7 8	NP	15								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-03-2010	Complete Drilling	12-03-2010	While Drilling	▽	5.00 ft	
Drilling Contractor	WTS	Drill Rig	Mobile B-57 TMR	At Completion of Drilling	▽	4.50 ft	
Driller	R&J	Logger	N. Boddy	Time After Drilling	NA		
Checked by	C. Marin	Depth to Water	▽	NA			
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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USER NAME = zpehid
PLOT SCALE = N/A
PLOT DATE = 9/7/2011

DESIGNED - BPS	REVISED -
CHECKED - BHS	REVISED -
DRAWN - BPS	REVISED -
CHECKED - BHS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
S.N. 056-0301**

SHEET NO. 58 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	119-T-1	McHENRY	40	23
IL ROUTE 176		CONTRACT NO. 60M54		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	McHenry	40	34B
STA	FO STA		
119	119		

SHEET 2 OF 3

*(119-176-1)P-7

BRIDGE GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to normal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.

Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included in the cost of "Concrete Removal".

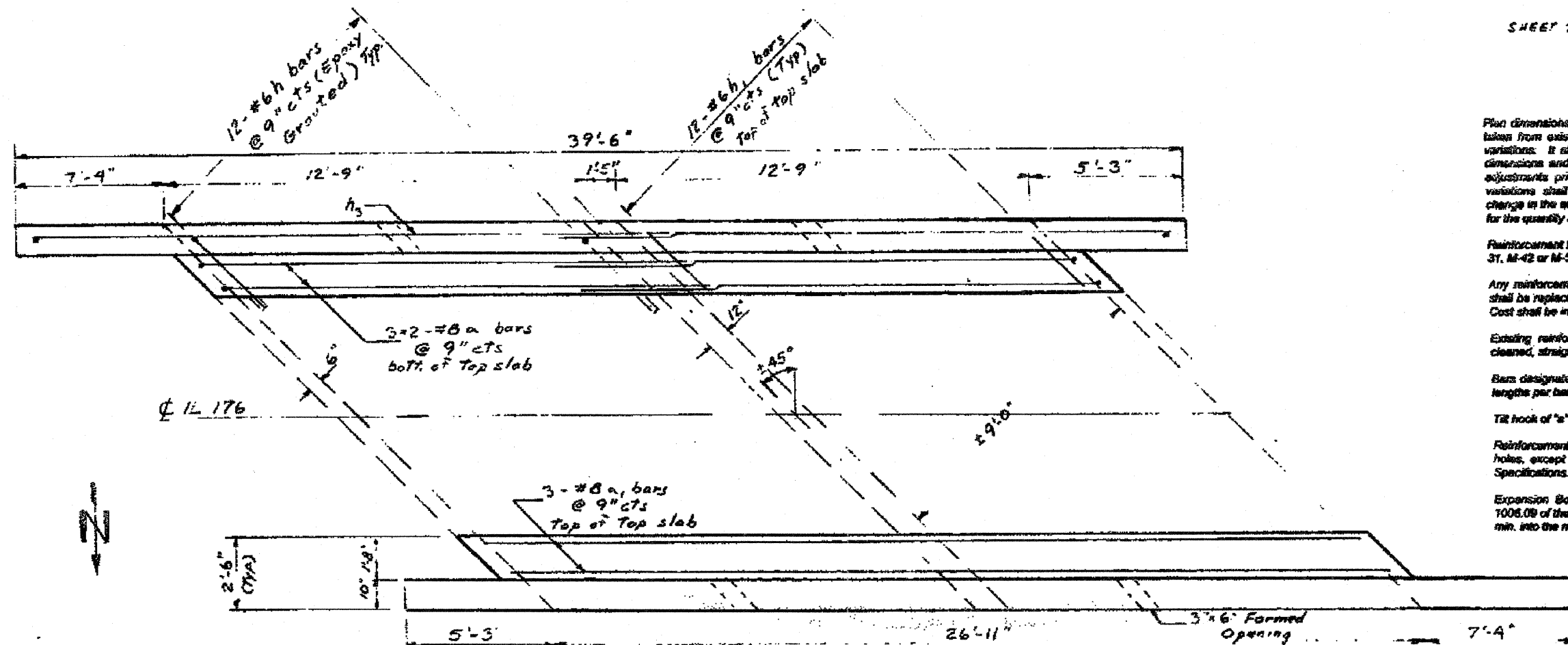
Existing reinforcement extending into the removed area shall be cleaned, straightened and incorporated into the new construction.

Bars designated thus 3 x 2 - #6 etc. indicates 3 lines of bars with 2 lengths per bar.

Tilt hook of "s" bars if necessary for 1-1/2" min. cl.

Reinforcement Bars to be epoxy grouted shall be installed in 9" min. holes, except as noted, according to Section 504 of the Standard Specifications. Cost included with Reinforcement Bars.

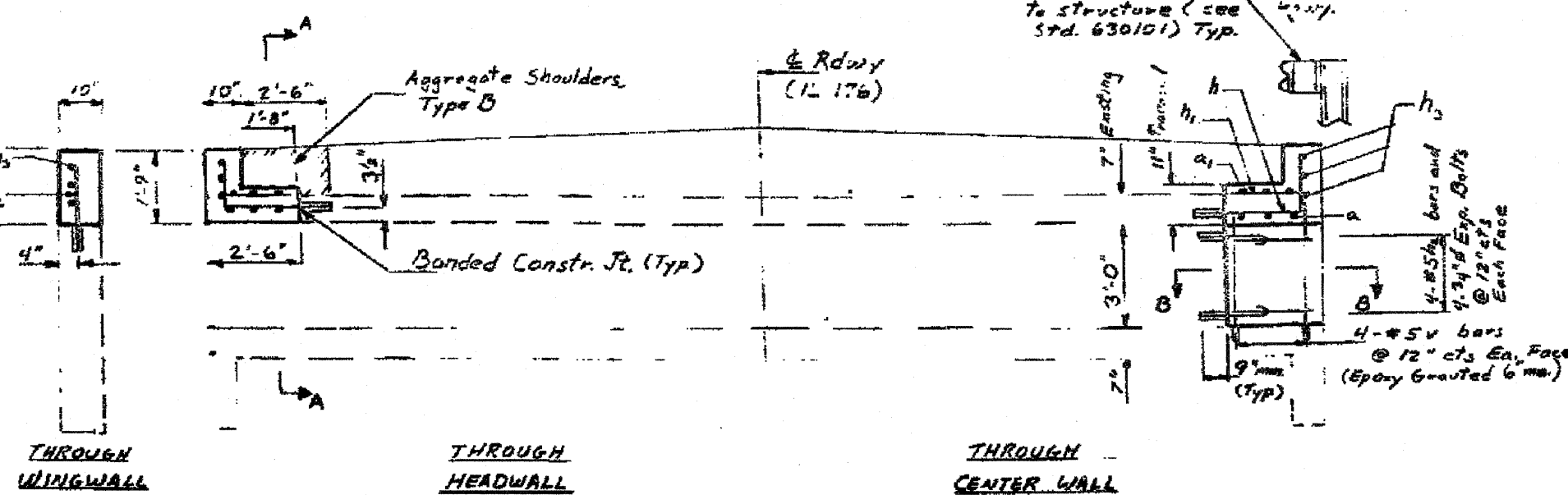
Expansion Bolts shall be 3/4" hooked bolts according to Section 1006.09 of the Standard Specifications. Hooked bolts shall extend 9" min. into the new concrete.



PLAN

Guardrail to be re-attached to structure (see Std. 630101) Typ.

2'-9" South Wingwall
1'-9" North Wingwall



SECTIONS (LOOKING WEST)

TOTAL BILL OF MATERIALS

PAY ITEM	UNIT	QUANTITY
Concrete Removal	Cu Yd	6.7
Structure Excavation	Cu Yd	8.3
Reinforcement Bars	Pound	2130
Removing and Re-erecting Existing Forming	Foot	80
Expansion Bolts, 3/4 inch	Each	18
Concrete Box Culverts	Cu Yd	7.8

REVISIONS	
NO.	DATE
1	9/7/2011

ILLINOIS DEPARTMENT OF TRANSPORTATION
CONCRETE REPAIRS
054-0072
GENERAL PLAN AND SECTION
IL 176 AT PINE ST
 SCALE: VERT. 1"=4'-0" HORIZ. 1"=10'-0"

FILE NAME = G:\projects\2102195_002\CADD\Structure\119\054-0072-Existing Culvert Plan.dgn



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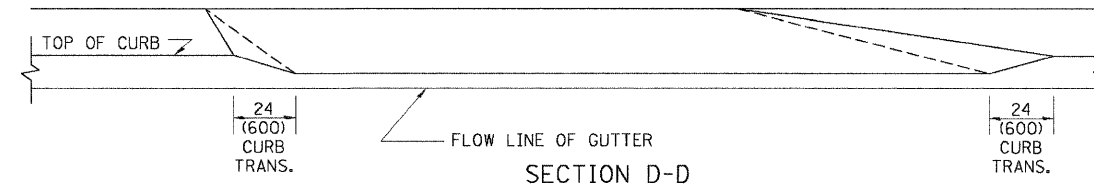
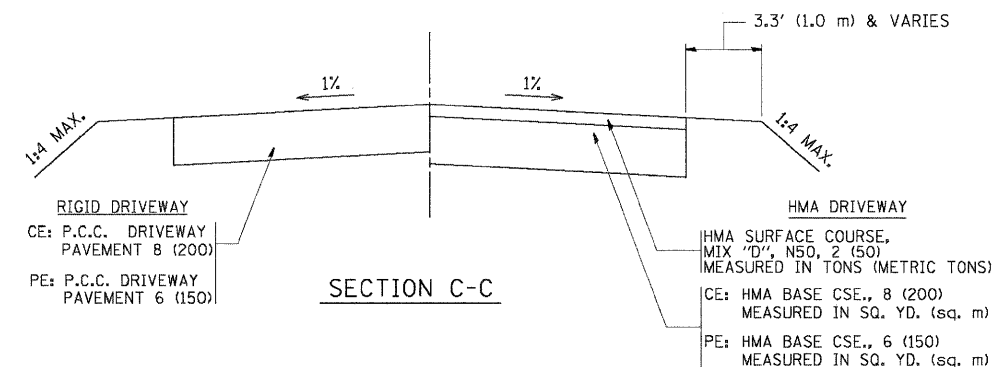
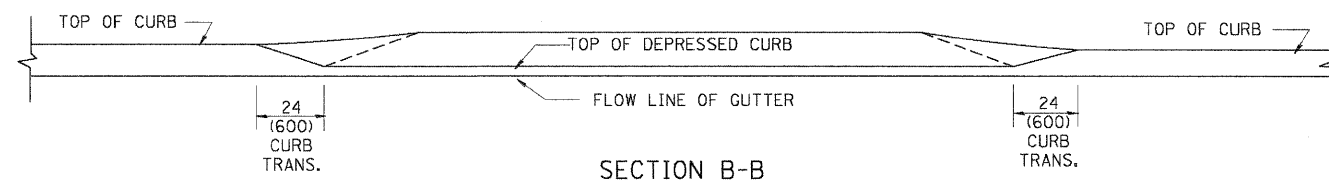
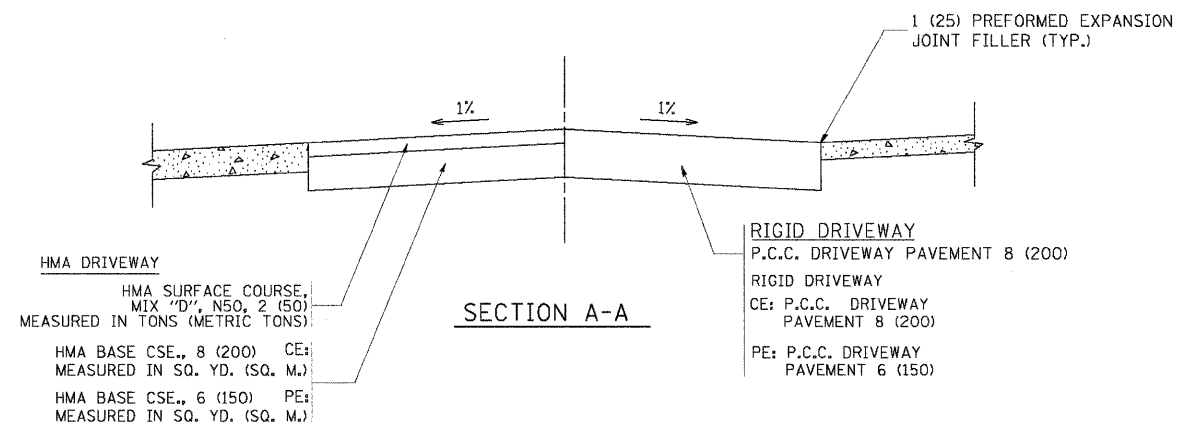
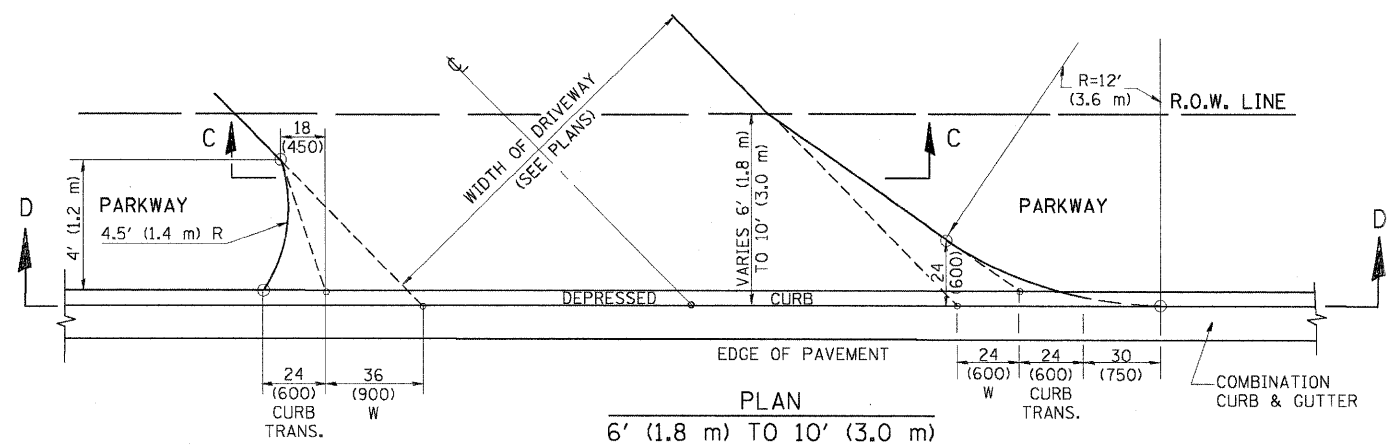
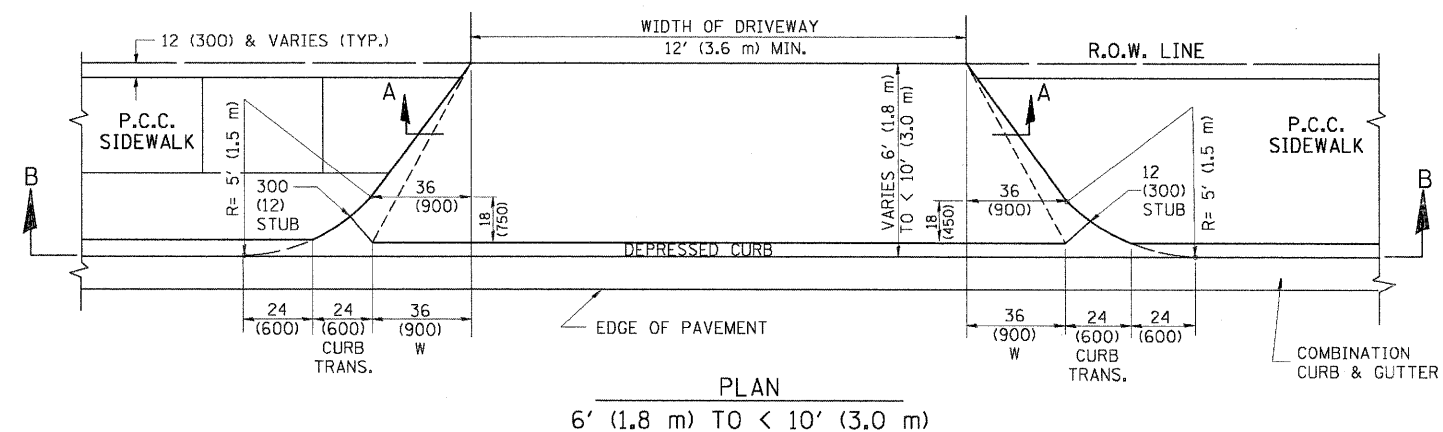
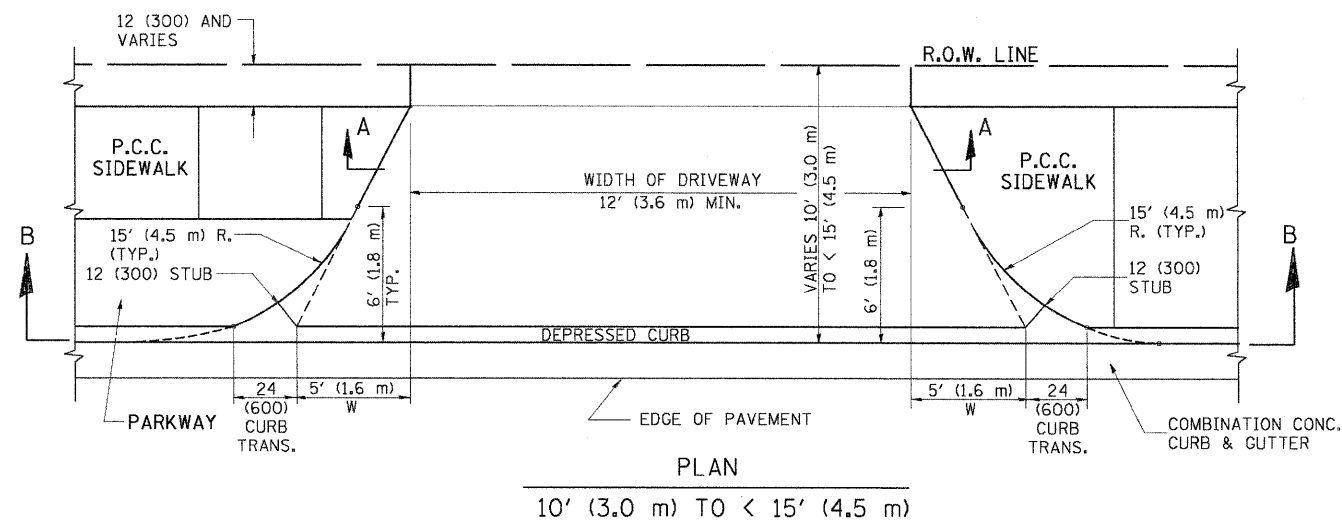
DESIGNED - BPS
 CHECKED - BHS
 DRAWN - BPS
 CHECKED - BHS

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING CULVERT PLANS
 S.N. 056-0301
 SHEET NO. S9 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	119-T-1	McHENRY	40	24
IL ROUTE 176		CONTRACT NO. 60M54		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

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

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

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

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

FILE NAME =	USER NAME = lejasa	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
c:\pwork\pwork\lejasa\0108315\bd02.dwg		DRAWN -	REVISED - P. LOFLEUR 04-15-03
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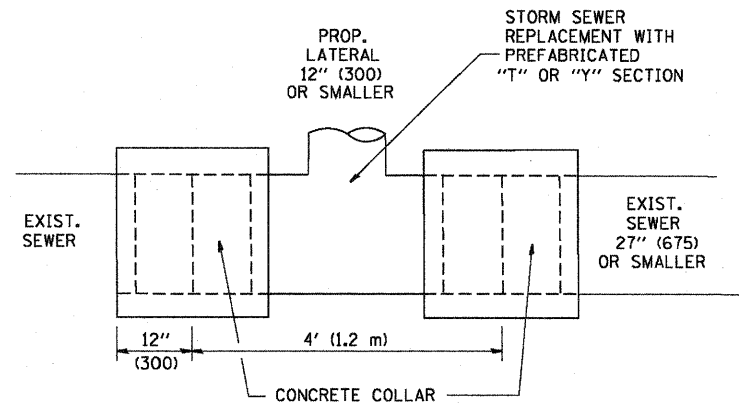
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS

DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

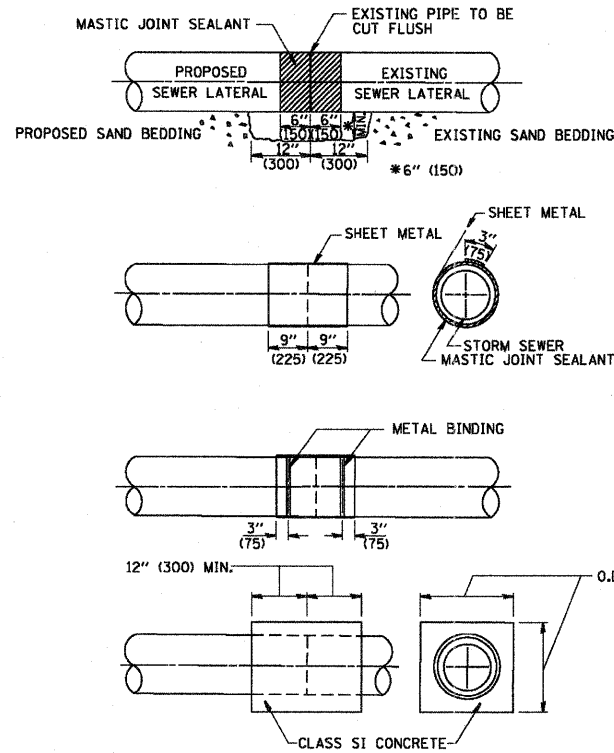
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	119-T-1	McHENRY	40	25
BD400-02 (BD-02)			CONTRACT NO. 60M54	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

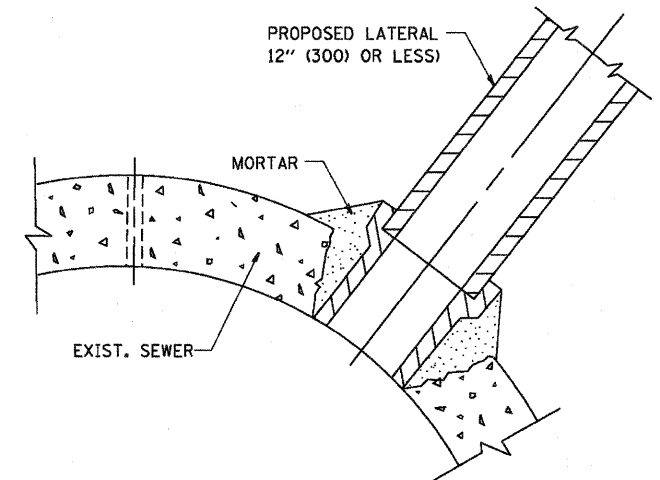


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

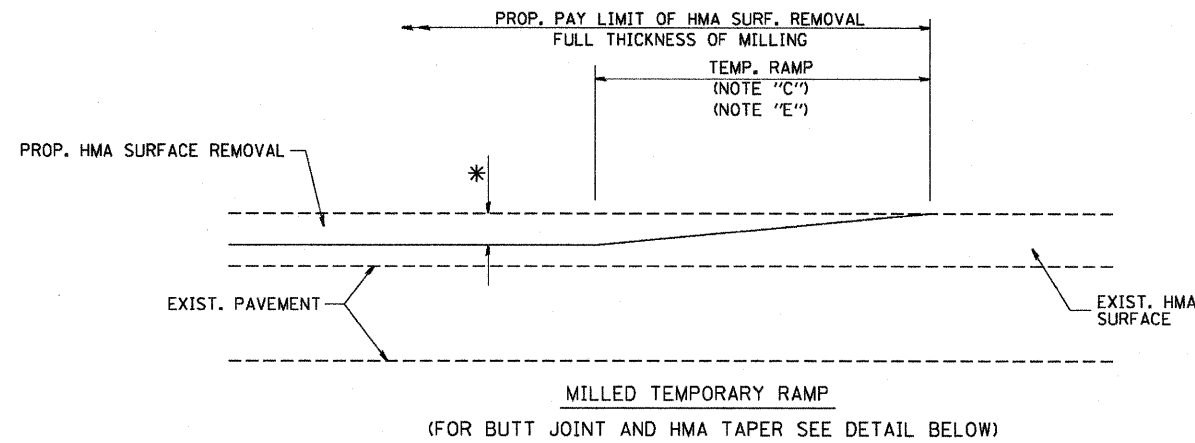
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

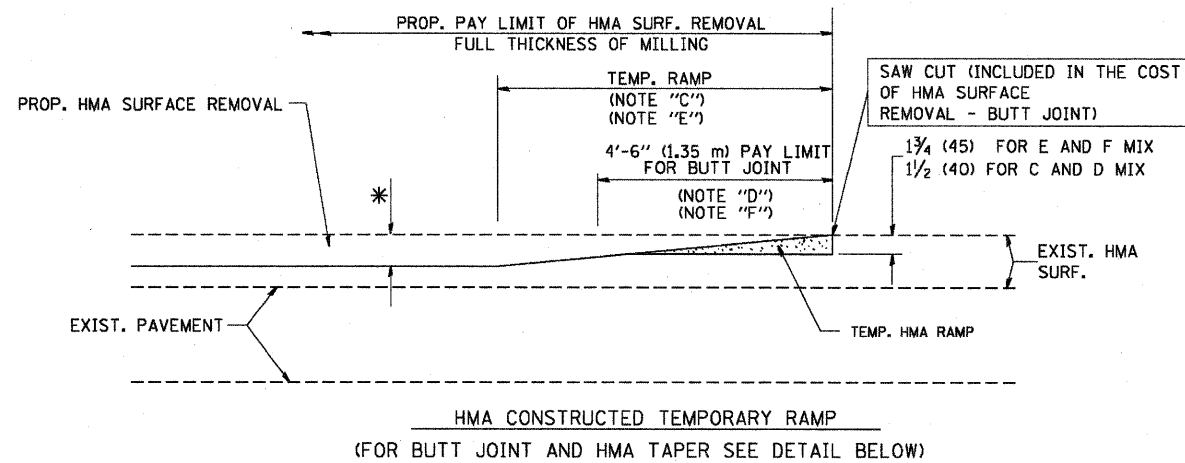
CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

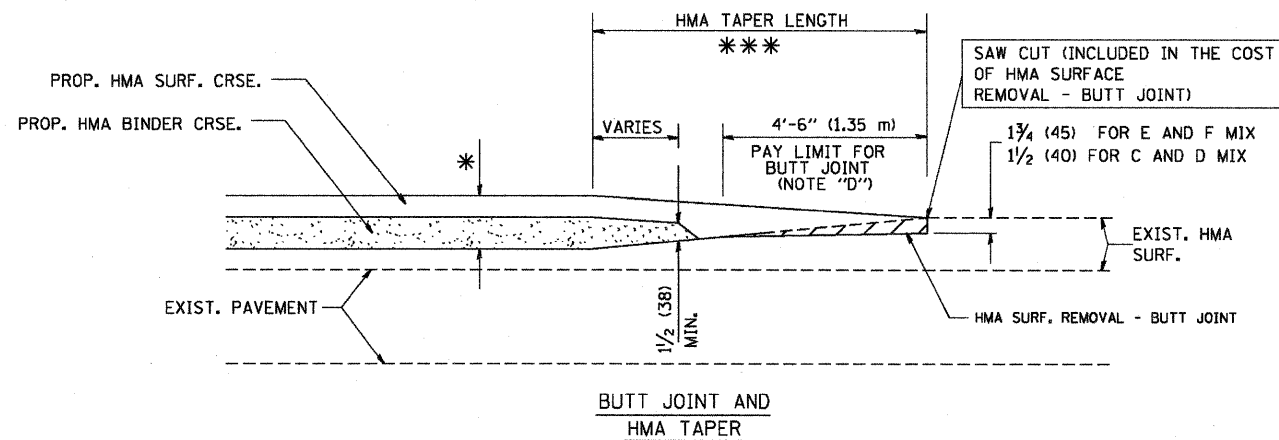
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD500-01 (BD-7)		CONTRACT NO. 60M54		
	PLOT DATE = 1/4/2008	DATE = 07-25-90	REVISED - R. SHAH 06-12-96		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
CONTRACT NO. 60M54												



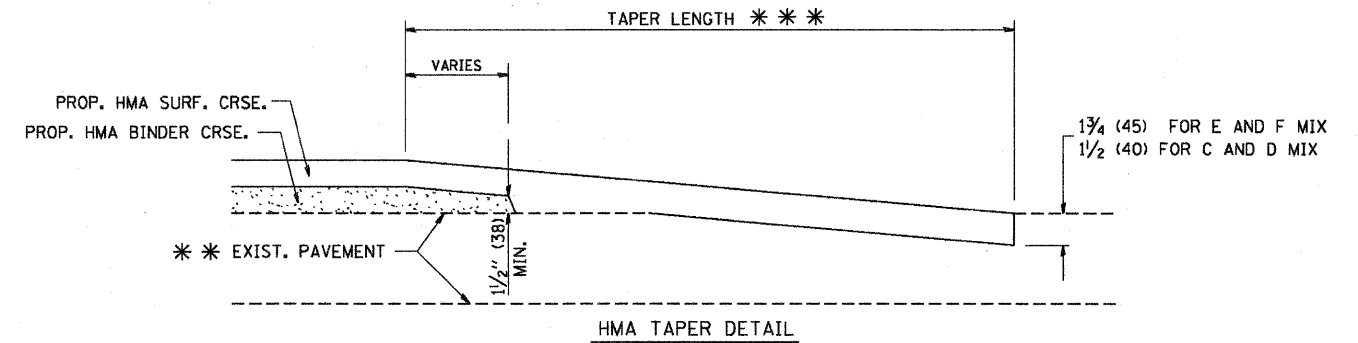
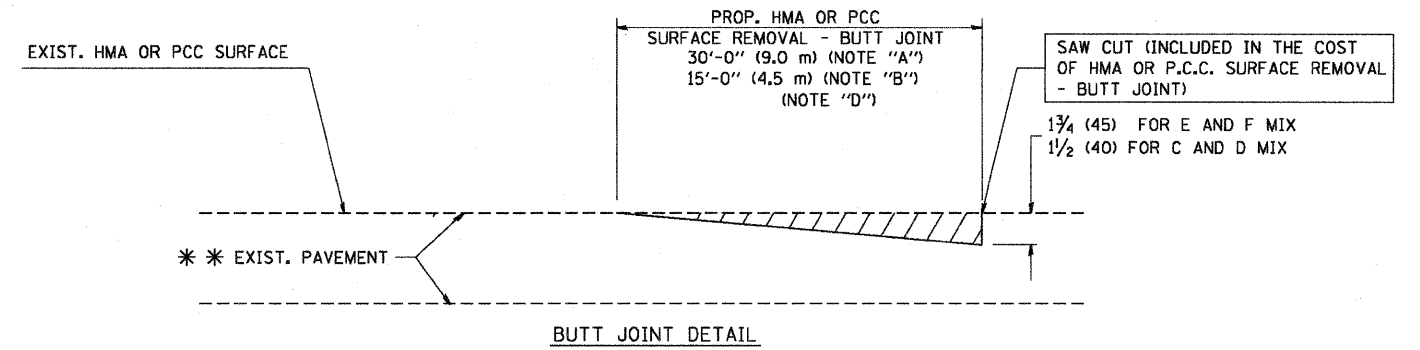
OPTION 1



**OPTION 2
TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

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

NOTES

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

BASIS OF PAYMENT:

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

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

FILE NAME = W:\datastd\22x34\bd32.dgn

USER NAME = gaglianob

DESIGNED - M. DE YONG

REVISED - R. SHAH 10-25-94

DRAWN -

REVISED - A. ABBAS 03-21-97

PLOT SCALE = 50.0000' / IN.

CHECKED -

REVISED - M. GOMEZ 04-06-01

PLOT DATE = 1/4/2008

DATE - 06-13-90

REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

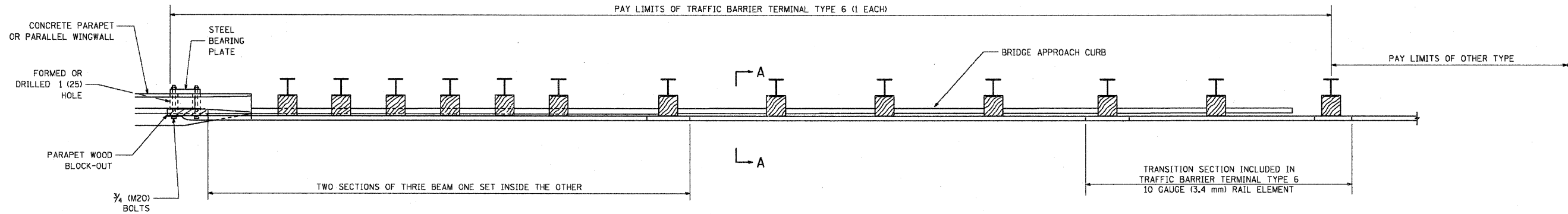
**BUTT JOINT AND
HMA TAPER DETAILS**

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

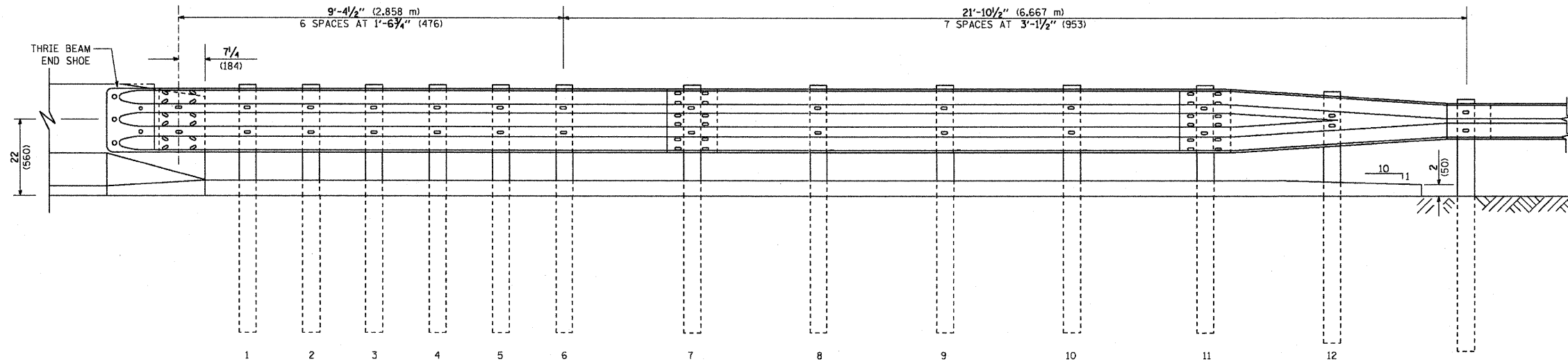
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533	119-T-1	McHENRY	40	27
BD400-05 BD32			CONTRACT NO. 60M54	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PARAPET OR WINGWALL

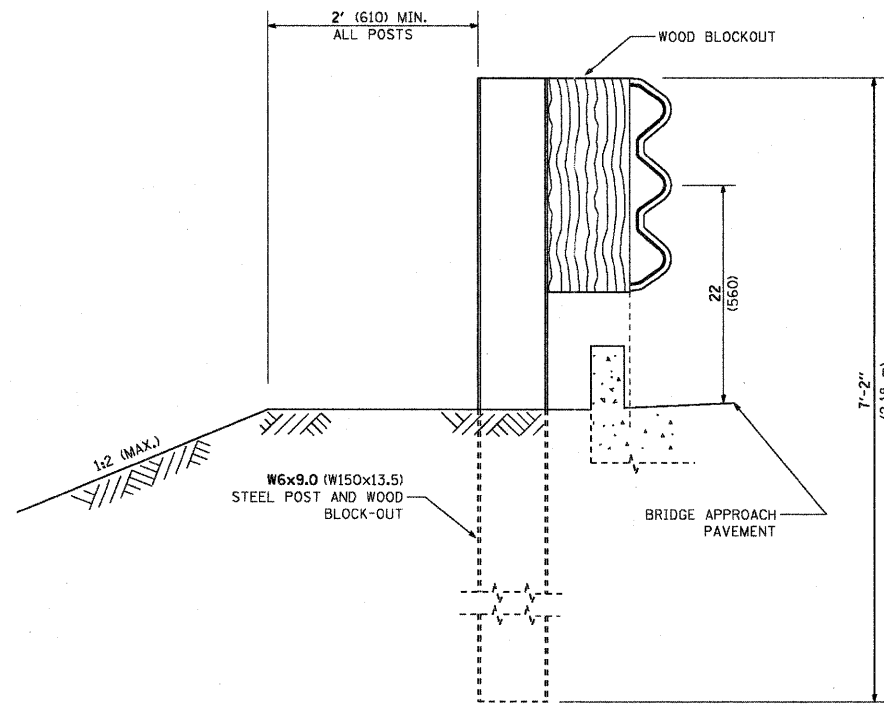
PAY LIMITS OF TRAFFIC BARRIER TERMINAL TYPE 6 (1 EACH)



PLAN



ELEVATION



SECTION A-A

GENERAL NOTES

TO BE USED WHEN CONNECTING TO EXISTING GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.

SEE STANDARD 630001 FOR DETAILS OF GUARDRAIL NOT SHOWN.

THRIE BEAM RAIL SHALL BE BOLTED TO BLOCK-OUT AT ALL POSTS.

SEE STANDARD 420401 FOR DETAILS OF BRIDGE APPROACH PAVEMENT.

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

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

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DRAWN -
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PLOT DATE = 2/21/2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED - STATE STANDARD:
631031-05 - 02/19/2008
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPE 6 TERMINAL
FOR USE WITH 21" HIGH SPBGR**

SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. TO STA.

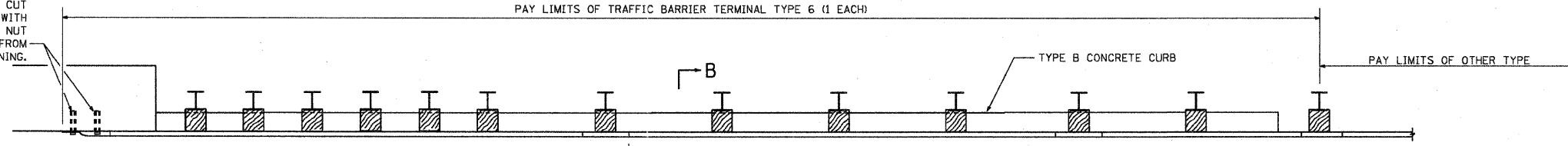
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533	119-T-1	MCHENRY	40	28
BM 22			CONTRACT NO. 60M54	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

5 EPOXY GROUTED 3/4" (M20) ANCHOR BOLTS WITH STANDARD WASHERS. AFTER TIGHTENING, CUT THE ANCHOR BOLTS FLUSH WITH NUTS, AND DAMAGE THE NUT TO PREVENT IT FROM LOOSENING.

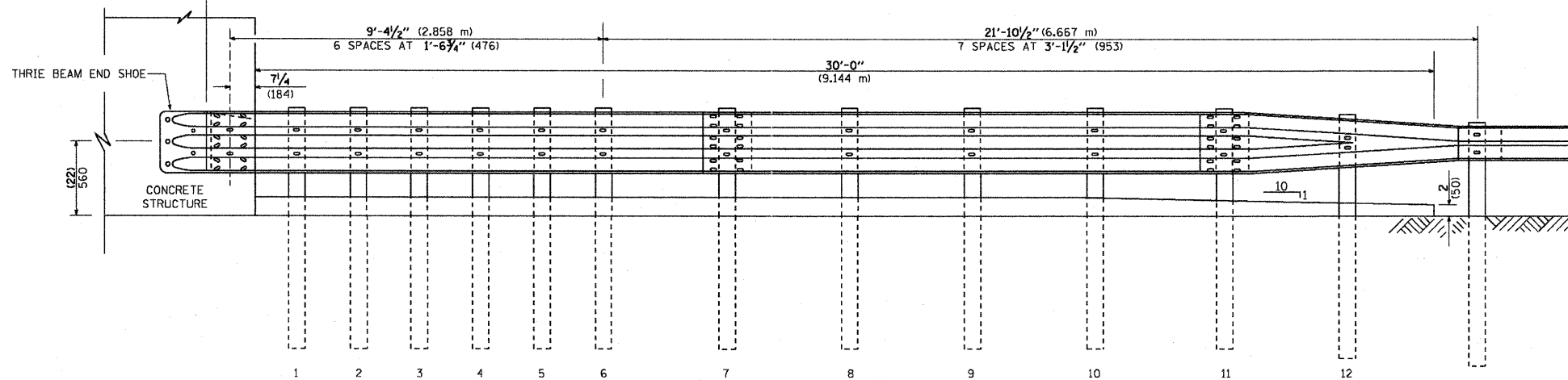
OTHER CONCRETE STRUCTURE

PAY LIMITS OF TRAFFIC BARRIER TERMINAL TYPE 6 (1 EACH)

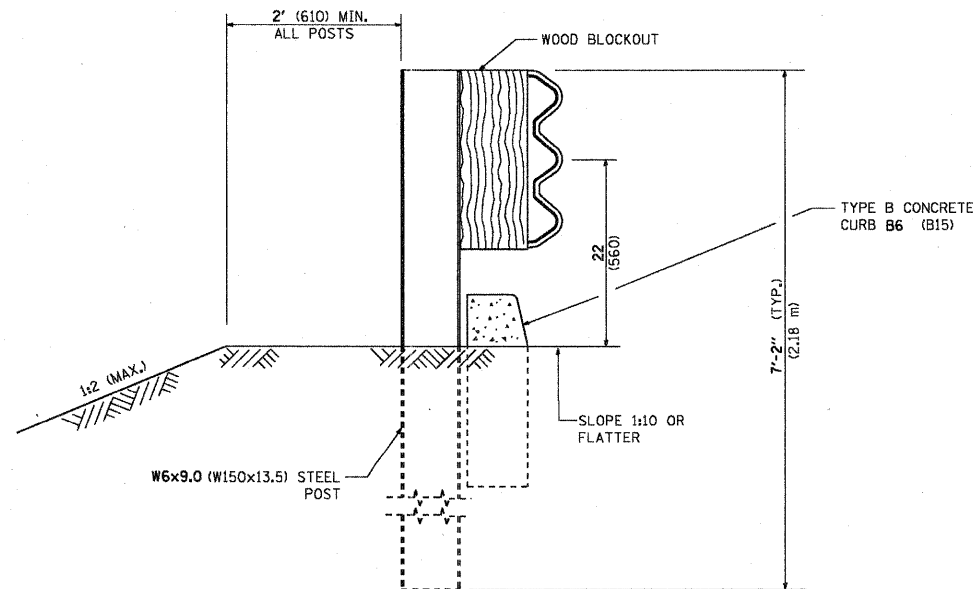
PAY LIMITS OF OTHER TYPE



PLAN



ELEVATION



SECTION B-B

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CHECKED -
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DATE -

REVISD - STATE STANDARD:
631031-05 - 02/19/2008
REVISD -
REVISD -

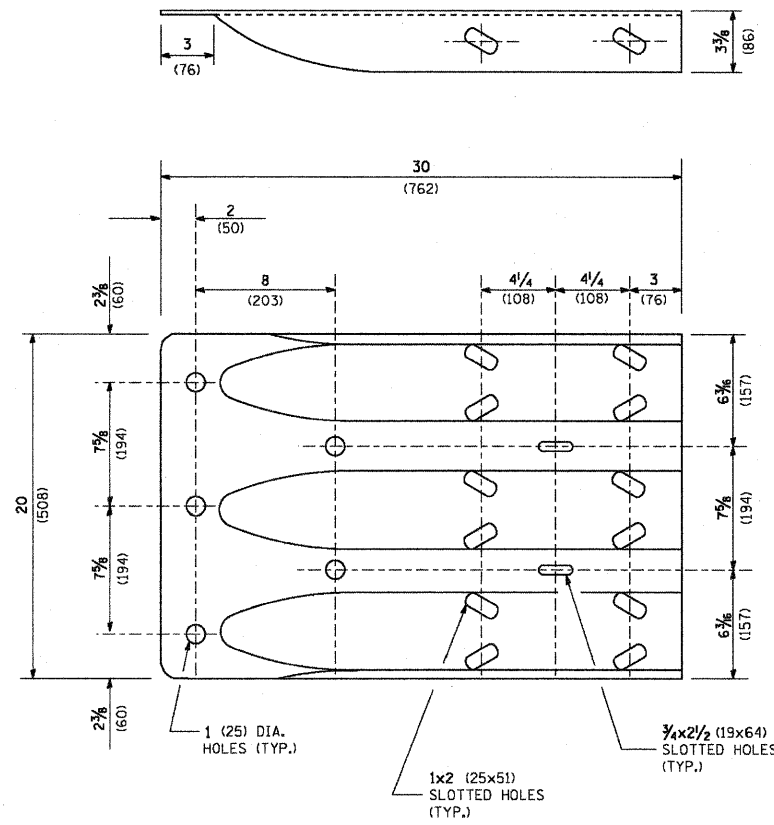
REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

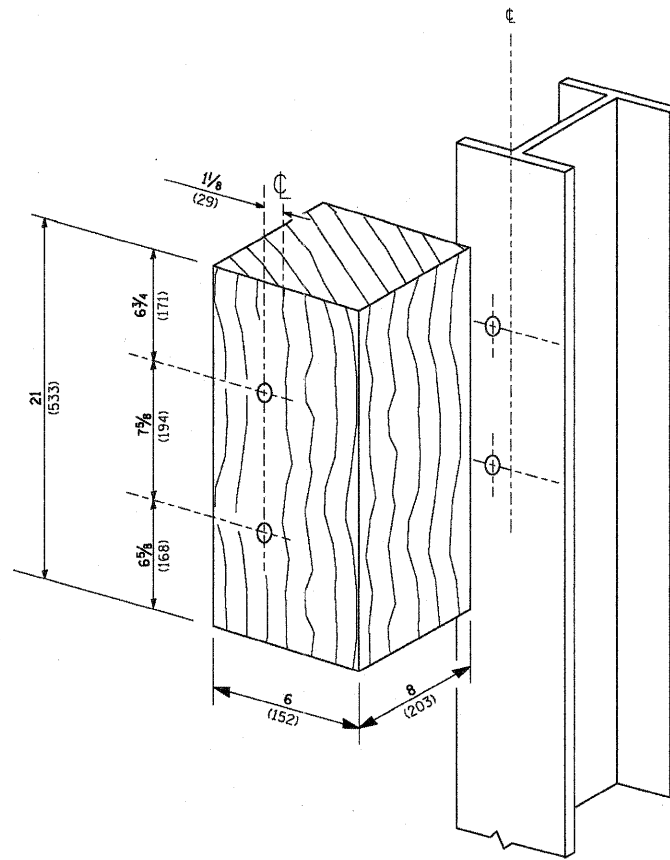
TYPE 6 TERMINAL
FOR USE WITH 21" HIGH SPBGR

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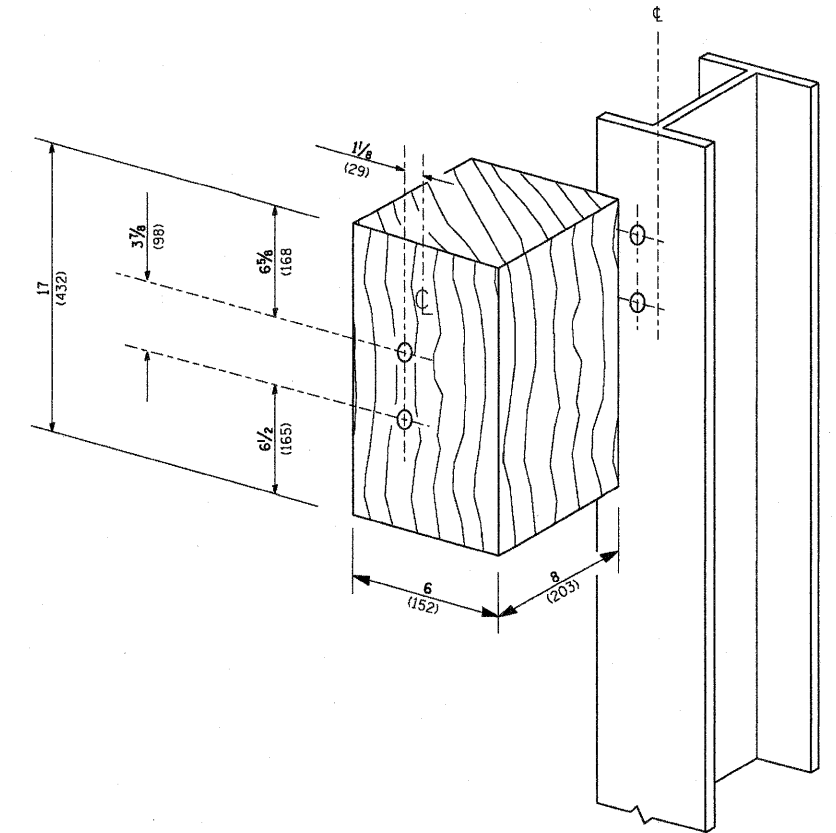
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BM 22			CONTRACT NO. 60M54	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



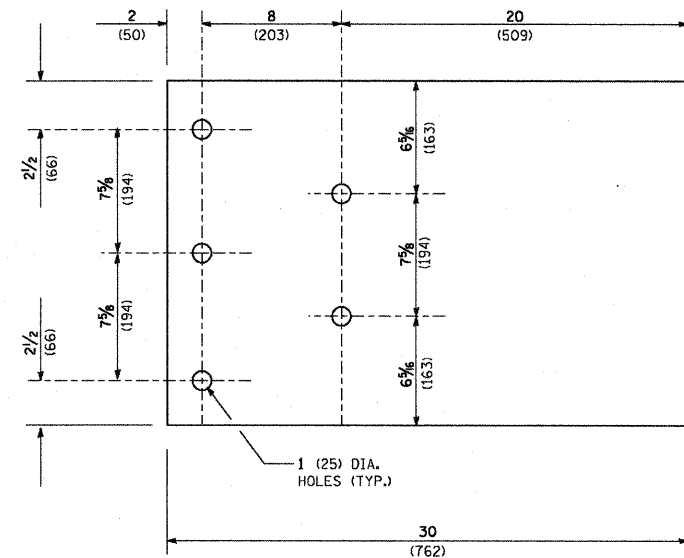
THRIE BEAM END SHOE DETAIL



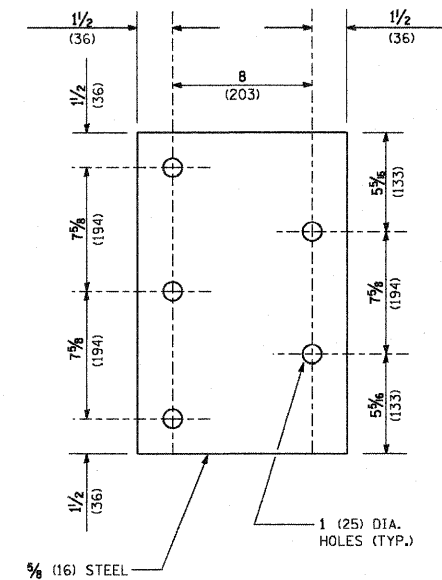
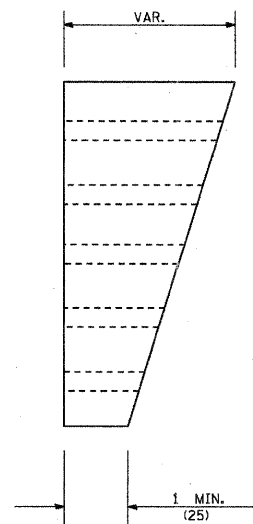
POSTS 1-11 WOOD BLOCKOUT DETAIL



POST 12 WOOD BLOCKOUT DETAIL



PARAPET WOOD BLOCK-OUT DETAIL



PARAPET STEEL BEARING PLATE DETAIL

(5 EACH INDIVIDUAL 5x5x5/16 (125x125x16) STEEL PLATES WITH CENTERED 1 (25) HOLES MAY BE SUBSTITUTED FOR THE PLATE SHOWN.)

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PLOT DATE = 2/21/2008

DESIGNED -
DRAWN -
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DATE -

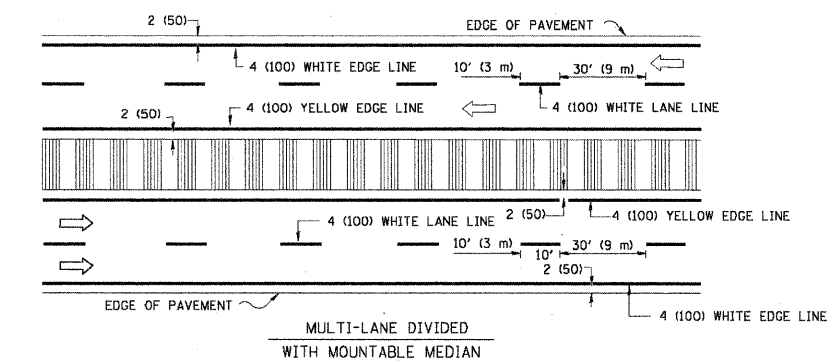
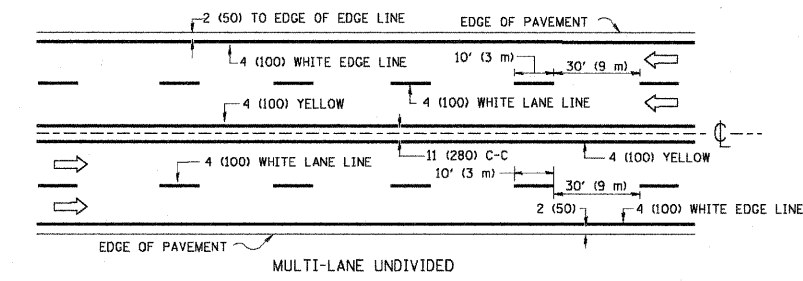
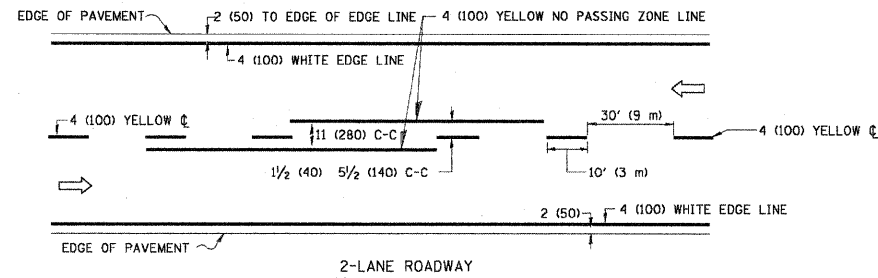
REVISED - STATE STANDARD;
631031-05 - 02/19/2008
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPE 6 TERMINAL
FOR USE WITH 21" HIGH SPBGR

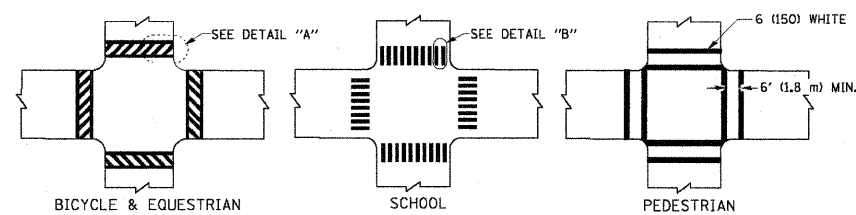
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BM 22			CONTRACT NO. 60M54	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

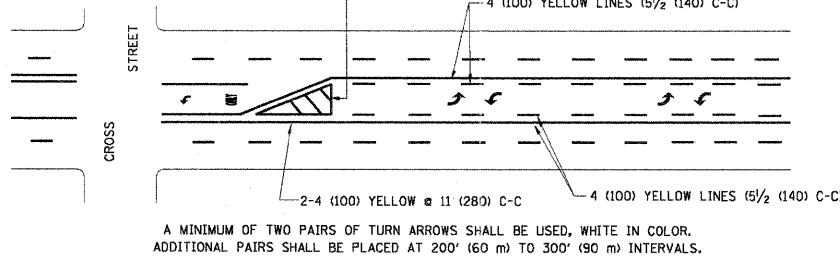
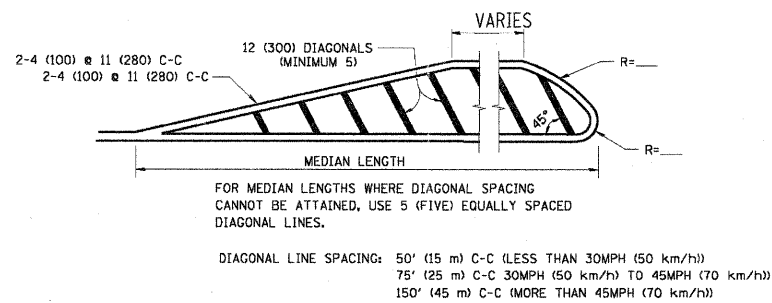
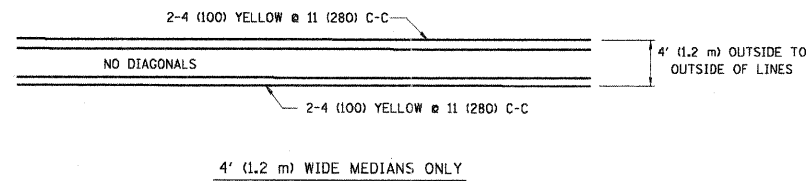


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

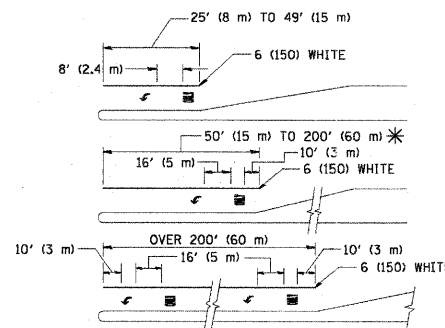
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



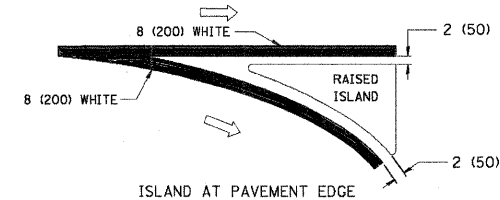
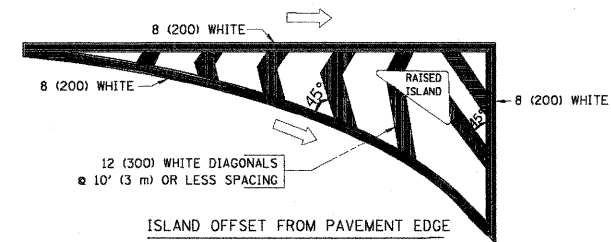
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

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

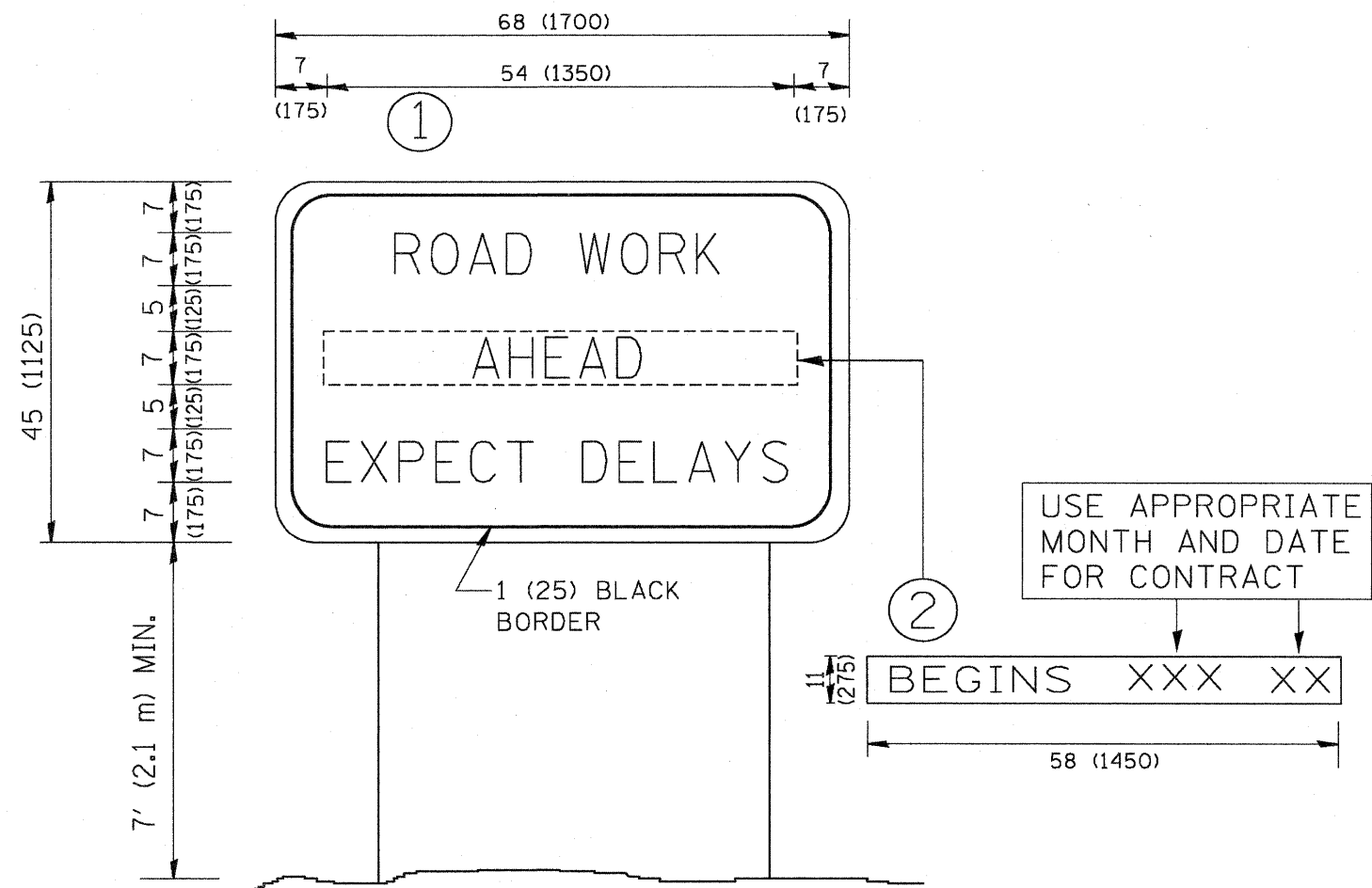
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

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	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A. RTE. 533	SECTION 119-T-1	COUNTY McHENRY	TOTAL SHEETS 40	SHEET NO. 31
TYPICAL PAVEMENT MARKINGS		TC-13		CONTRACT NO. 60M54		
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			

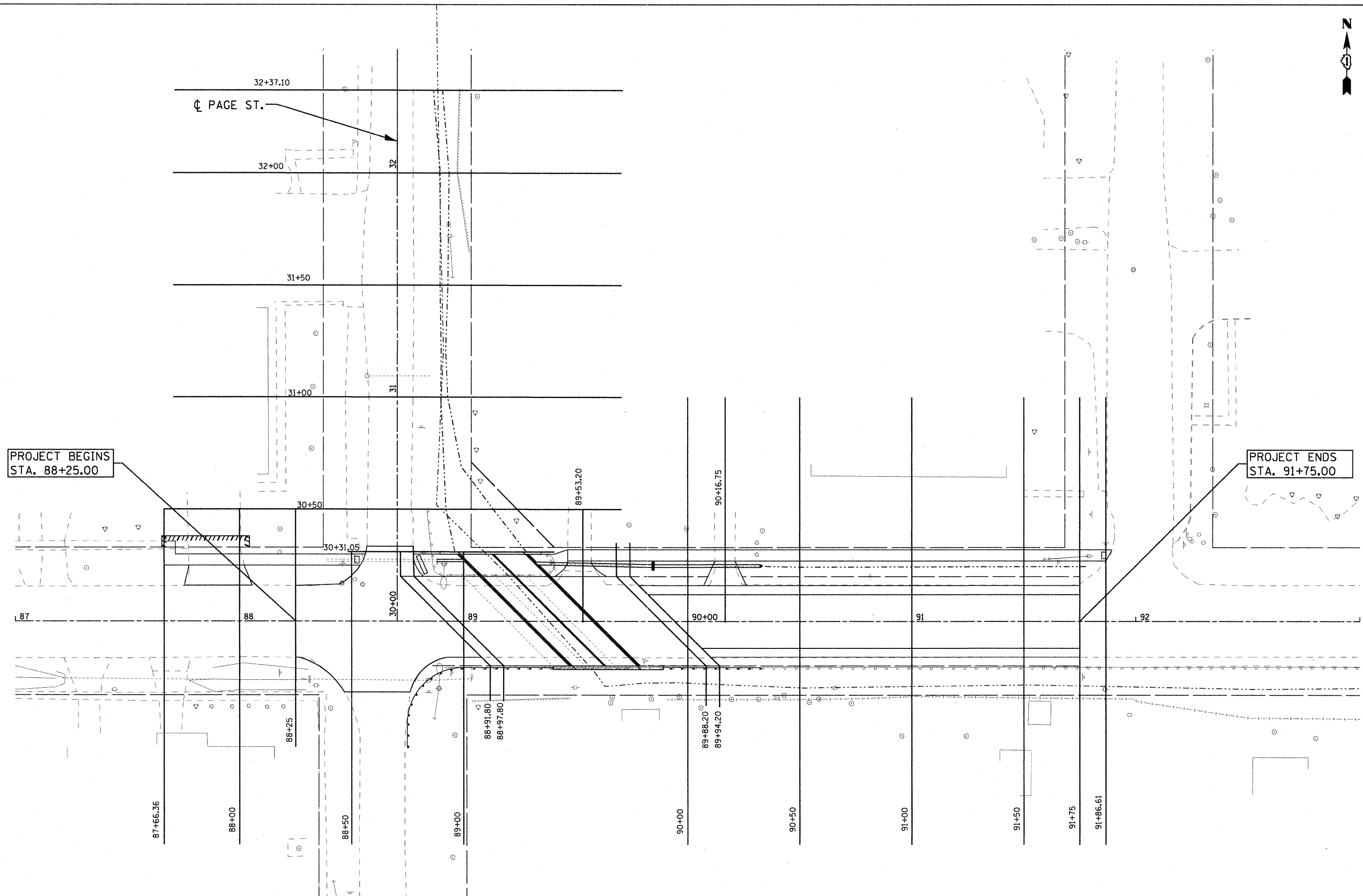


NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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	PLOT SCALE = 50.000 // IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-22		CONTRACT NO. 60M54	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						
		DATE -	REVISED - C. JUCIUS 01-31-07								



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PLOT DATE = 8/31/2011	CHECKED - TMH	REVISED -
	DATE - 04/07/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP ROUTE 533 (IL RTE 176) OVER DRAINAGE DITCH (EAST OF IL RTE 23)
CROSS SECTION KEY MAP**

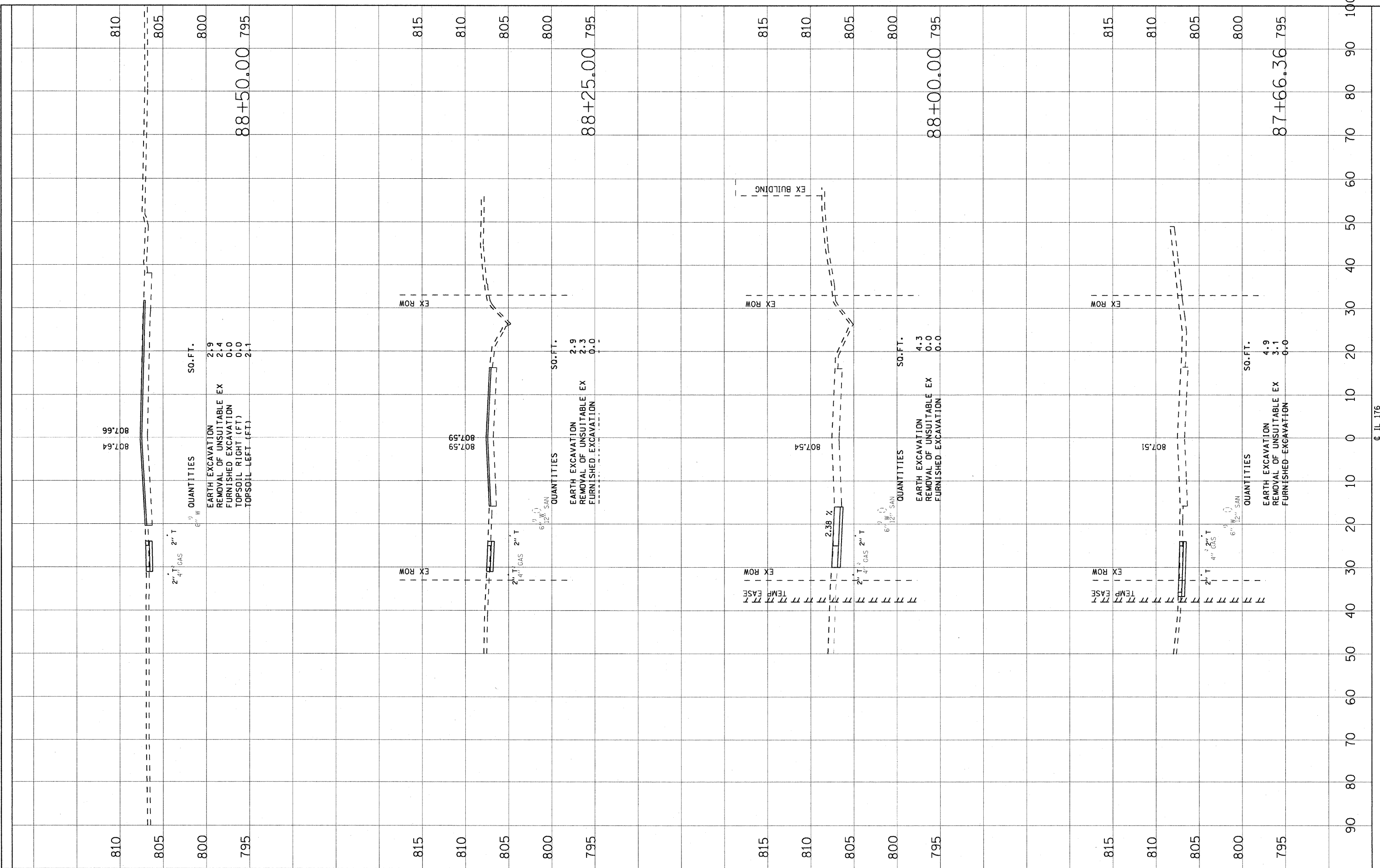
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	119-T-1	McHENRY	40	33
IL ROUTE 176		CONTRACT NO. 60M54		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

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PLOT DATE = 5/31/2011

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL RTE 176 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 87+66.36 TO STA. 88+50.00

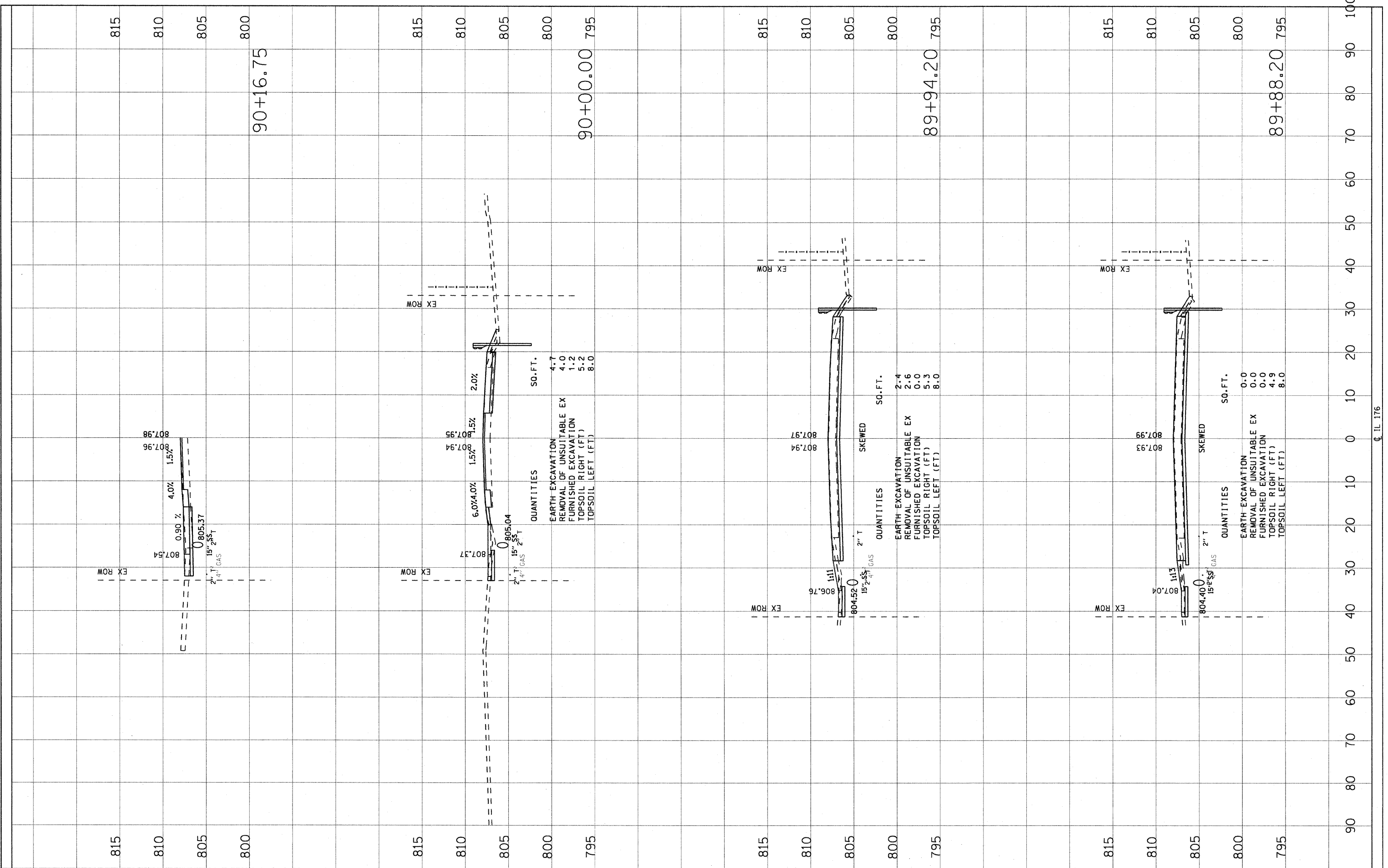
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CONTRACT NO. 60M54			ILLINOIS FED. AID PROJECT	

IL 176

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

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

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PLOT DATE = 8/31/2011	CHECKED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 176 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 89+88.20 TO STA. 90+16.75

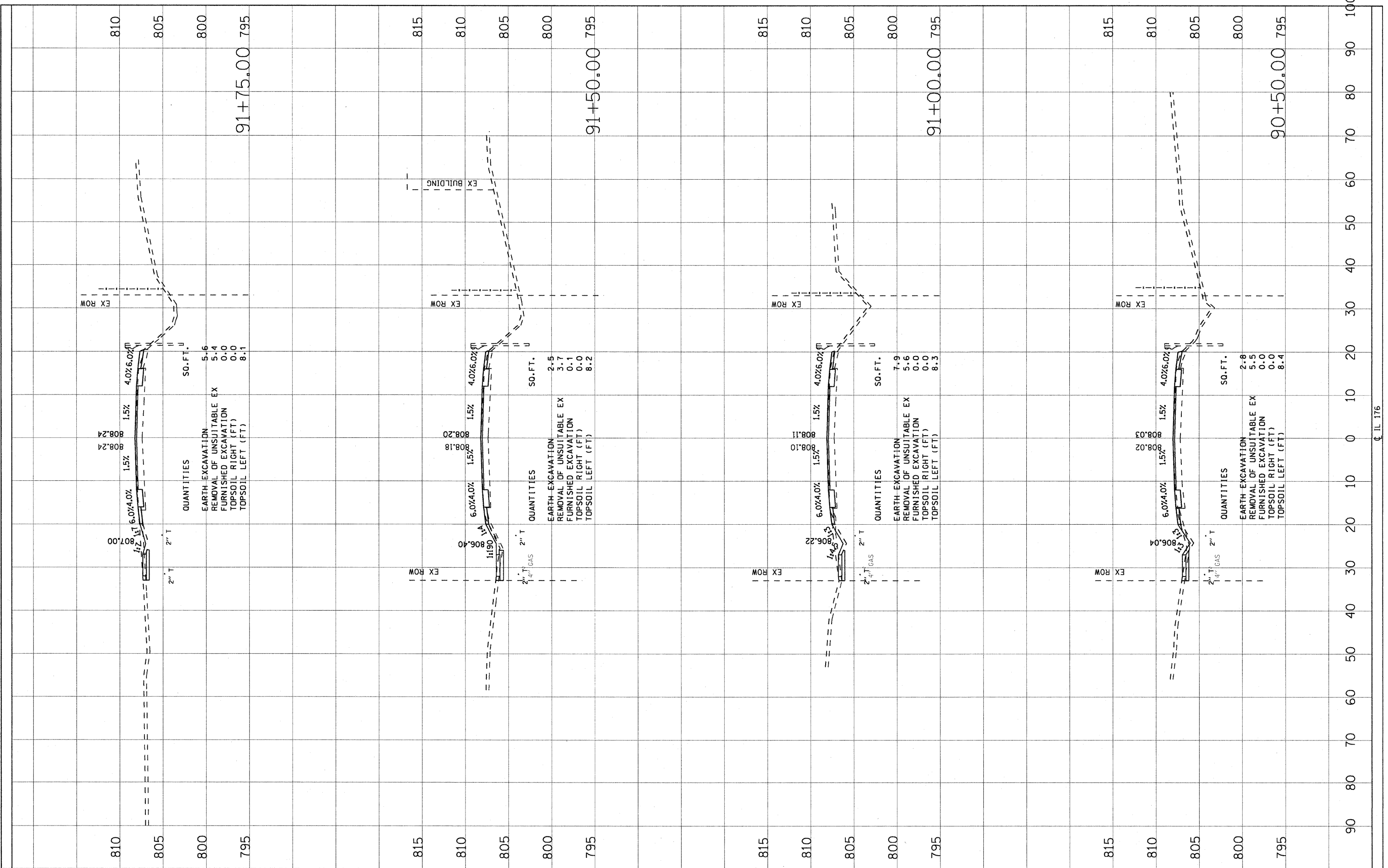
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CONTRACT NO. 60M54			ILLINOIS FED. AID PROJECT	

IL 176

FINAL SURVEY	NO.
SURVEY	NO.
NOTED	NO.
PLOTTED	NO.
TEMPLATE	NO.
AREAS CHECKED	NO.
DATE	
BY	

ORIGINAL SURVEY	NO.
SURVEY	NO.
NOTED	NO.
PLOTTED	NO.
TEMPLATE	NO.
AREAS CHECKED	NO.
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL RTE 176 CROSS SECTIONS
 SCALE: SHEET NO. OF SHEETS STA. 90+50.00 TO STA. 91+75.00

F.A. RTE. 533	SECTION 119-T-1	COUNTY McHENRY	TOTAL SHEETS 40	SHEET NO. 37
CONTRACT NO. 60M54			ILLINOIS FED. AID PROJECT	

ILL 176

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

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL RTE 176 CROSS SECTIONS

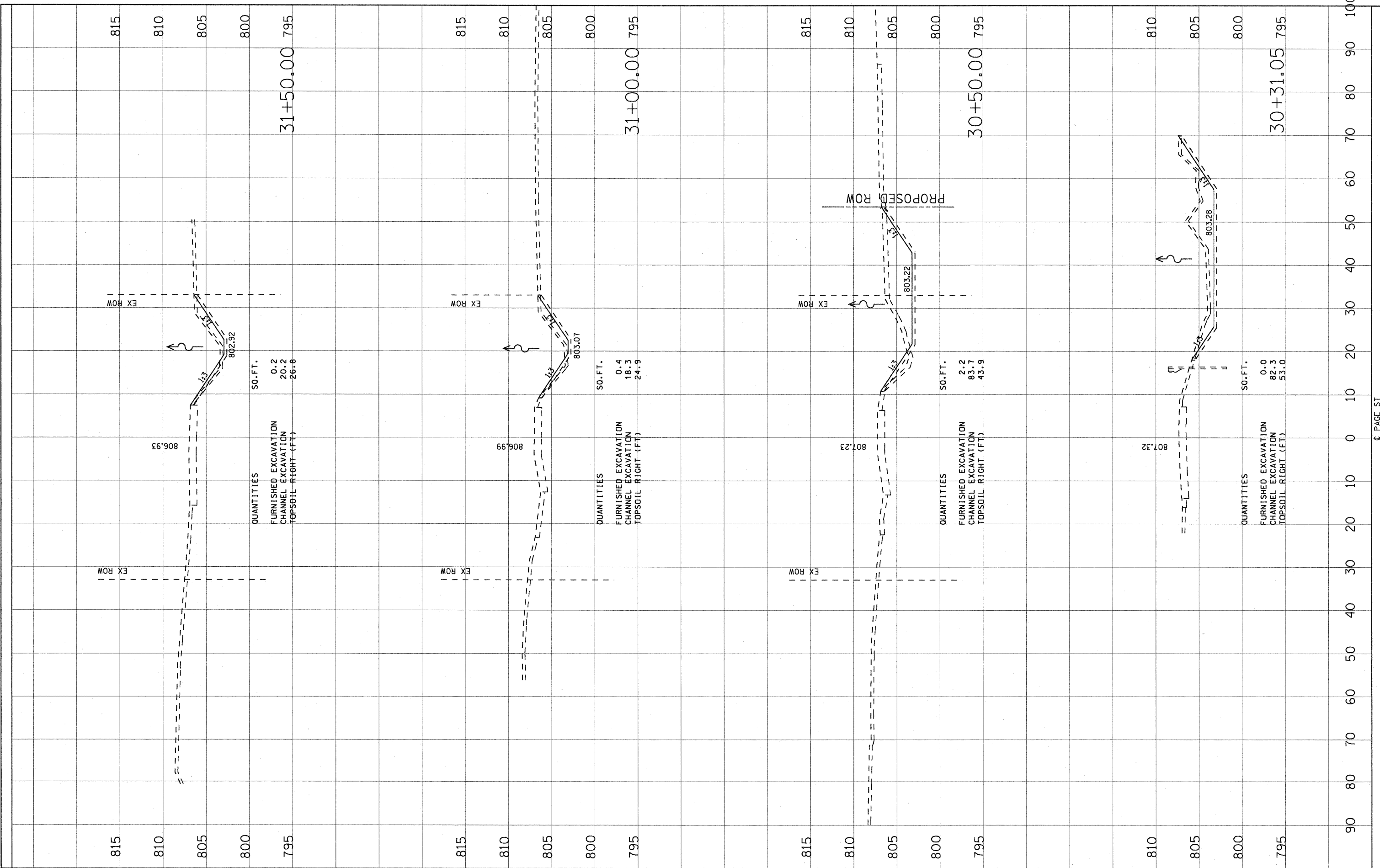
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CONTRACT NO. 60M54			ILLINOIS FED. AID PROJECT	

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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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NOTE BOOK	PLOTTED		
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DATE -	REVISION -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAGE STREET CROSS SECTIONS

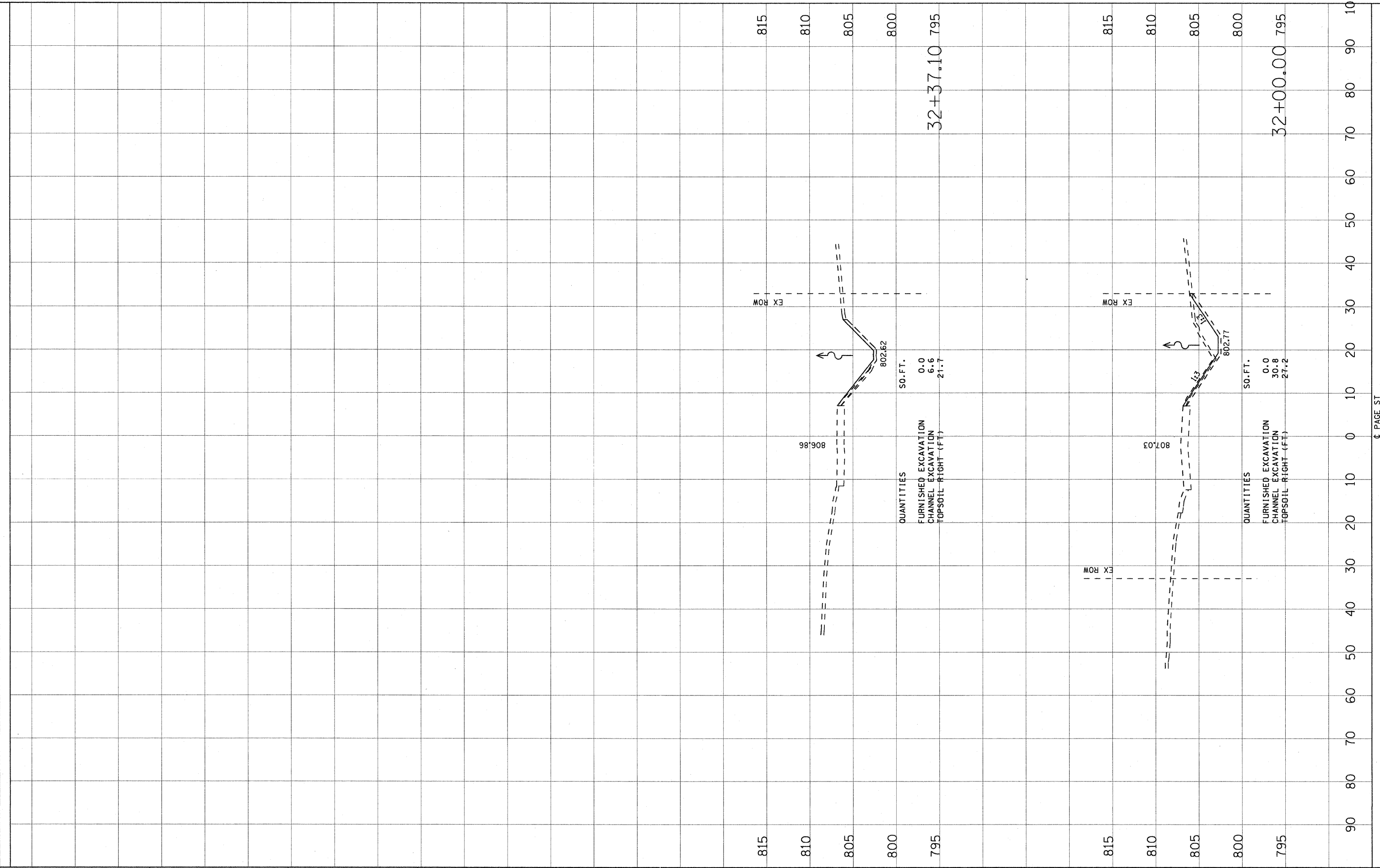
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F.A. RTE. 533	SECTION 119-T-1	COUNTY McHENRY	TOTAL SHEETS 40	SHEET NO. 39
CONTRACT NO. 60M54			ILLINOIS FED. AID PROJECT	

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

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

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STATE OF ILLINOIS	DESIGNED -	REVISED -
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	CHECKED -	REVISED -
	DATE -	REVISED -

PAGE STREET CROSS SECTIONS	
SCALE:	SHEET NO. OF SHEETS STA. 32+00.00 TO STA. 32+37.10

F.A. RTE. 533	SECTION 119-T-1	COUNTY McHENRY	TOTAL SHEETS 40	SHEET NO. 40
CONTRACT NO. 60M54			ILLINOIS FED. AID PROJECT	