

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

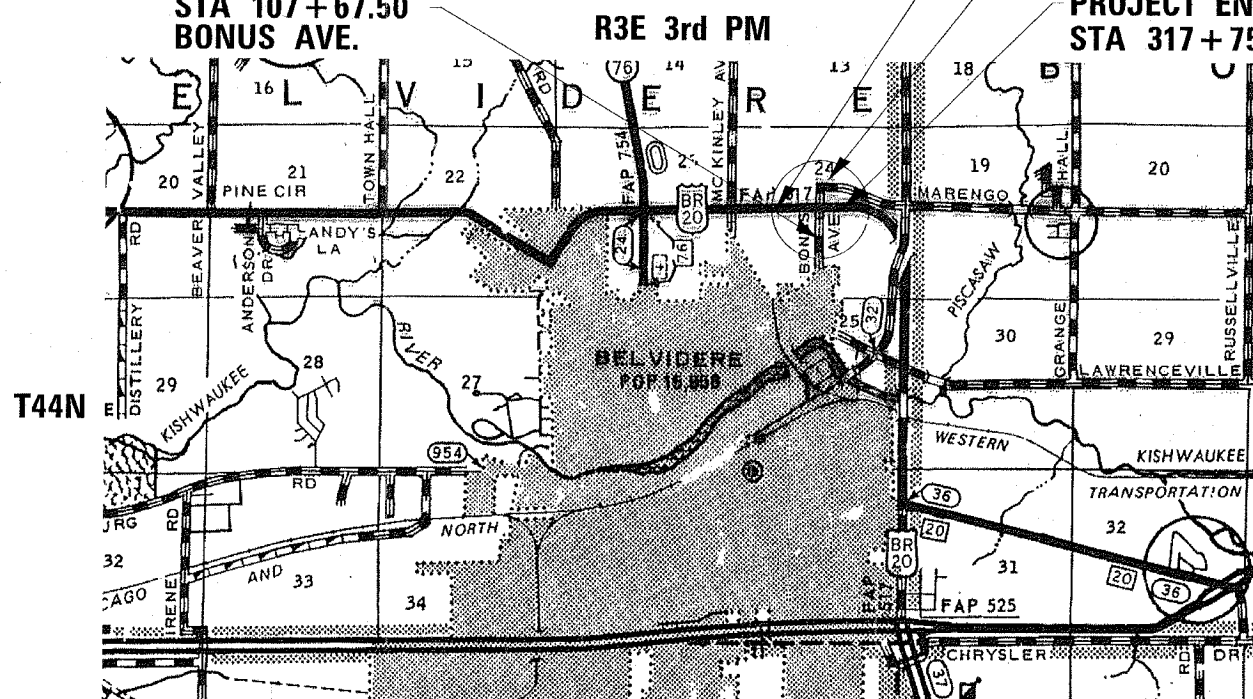
FAP ROUTE 517 (US BR 20)
SECTION L-M-3
PROJECT HS-F-517(052)
BOONE COUNTY
C-92-021-06

PROJECT BEGINS
STA 296+25.56 BUS. RTE. 20

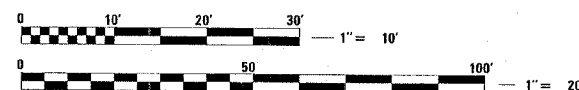
PROJECT ENDS
STA 1014+97.20 MARENGO RD.

PROJECT ENDS
STA 317+75.00 BUS. RTE. 20

PROJECT BEGINS
STA 107+67.50
BONUS AVE.



GROSS PROJECT LENGTH : 2147.41 FT = 0.41 MILES
NET PROJECT LENGTH : 2147.41 FT = 0.41 MILES

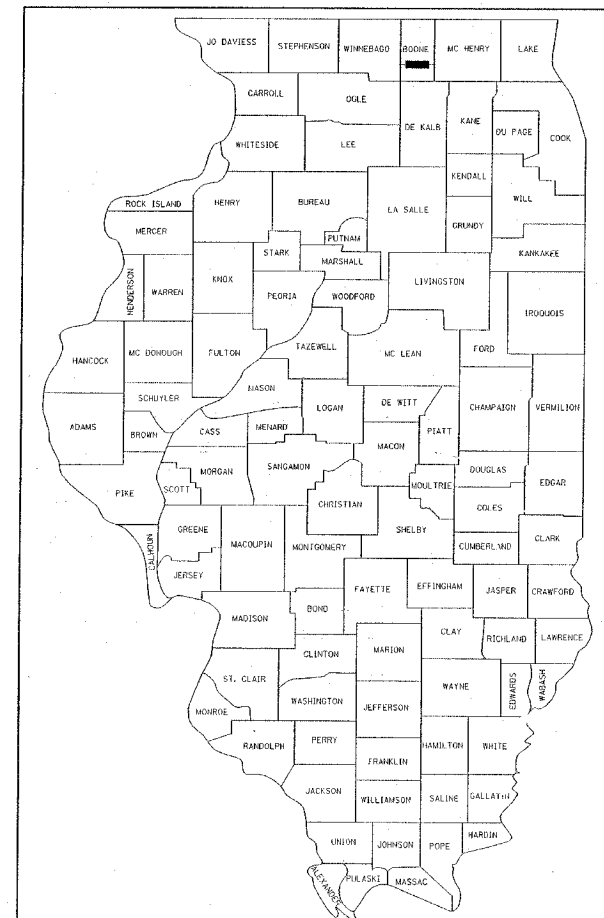


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES.
REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES.
IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FOR INDEX OF SHEETS, SEE SHEET 2

FOR LIST OF STATE STANDARDS, SEE SHEET 2

D-92-048-03



LOCATION OF SECTION INDICATED THIS: -

THESE PLANS WERE PREPARED BY OR UNDER THE DIRECTION OF:



ILLINOIS PROFESSIONAL DESIGN FIRM CORPORATION NUMBER 184-000177

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED OCT 24 2005
Gregory Harts DISTRICT ENGINEER
December 9, 2005
Mike Sims ENGINEER OF DESIGN AND SUPERVISOR
December 9, 2005
Eric Harms DEPUTY DIRECTOR, DIVISION OF HIGHWAYS



Rick J. Anderson
RICK J. ANDERSON, P.E.
IL. REG. NO. 062-044812
EXP. DATE: 11/30/05

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

DISTRICT 2, DIXON, IL

PROJECT ENGINEER : ROBERT WAGNER

SENIOR SQUAD LEADER : MICHAEL A. YUSEF (815) 284-5354

CONSULTANTS : MAURER-STUTZ, INC.
CONTACT : RICK ANDERSON (309)693-7615

DESIGN DESIGNATION:
1865 (26) - OTHER PRINCIPAL ARTERIAL - 0.68 (PCC-20)
SEE TYPICAL SECTIONS SHEET FOR STRUCTURAL PAVEMENT DESIGN INFORMATION

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

DELVIDERE TOWNSHIP SECTION 24

CONTRACT NO. 64895

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

INDEX OF SHEETS

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 - 35.4 SIDEWALK AND DRIVEWAY PAY AREAS
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LIST OF STATE STANDARDS

- 000001-04 ABBREVIATIONS, SYMBOLS AND PATTERNS
- 280001-02 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-06 PAVEMENT JOINTS
- 420101-02 7.2 M (24') JOINTED PCC PAVEMENT
- 420106-02 10.8 M (36') JOINTED PCC PAVEMENT
- 424001-03 SIDEWALK RAMPS, ACCESSIBLE TO THE DISABLED
- 442201-01 CLASS C AND D PATCHES
- 482001 BITUMINOUS SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 482006-01 BITUMINOUS SHOULDER ADJACENT TO RIGID PAVEMENT
- 542301 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542401 METAL END SECTIONS FOR PIPE CULVERTS
- 606001-02 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 635001 DELINEATORS
- 701001-01 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-02 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701326-02 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
- 702001-05 TRAFFIC CONTROL DEVICES
- 720016-01 MAST ARM MOUNTED STREET NAME SIGNS
- 78001-01 TYPICAL PAVEMENT MARKINGS
- 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 805001 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001 CONCRETE HANDHOLES
- 814006 DOUBLE HANDHOLES
- 857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 877011-02 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
- 878001-03 CONCRETE FOUNDATION DETAILS
- 880006 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001 DETECTOR LOOP INSTALLATIONS
- 886006 TYPICAL LAYOUTS FOR DETECTION LOOPS

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 REFERENCE = SHEET#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CODE NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
				80% FED 20% STATE 1000-1A	90% FED 10% STATE J000-1A	90% FED 5% STATE 2.5% CITY 2.5% TWP Y031-1F	50% STATE 50% CITY SFTY 1-B
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	20	20			
20200100	EARTH EXCAVATION	CU YD	2172		2172		
20800150	TRENCH BACKFILL	CU YD	38	38			
25000910	SEEDING, CLASS 1 (MODIFIED)	ACRE	0.2	0.2			
25001830	SEEDING, CLASS 6 (MODIFIED)	ACRE	1.0	1.0			
25100120	MULCH, METHOD 2	TON	2.4	2.4			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	120	120			
* 28000300	TEMPORARY DITCH CHECKS	EACH	6	6			
28000500	INLET AND PIPE PROTECTION	EACH	5	5			
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	2894		2894		
35101100	AGGREGATE BASE COURSE, TYPE A 12"	SQ YD	740	740			
35102000	AGGREGATE BASE COURSE TYPE B 8"	SQ YD	163	163			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1.5	1.5			
40600300	AGGREGATE (PRIME COAT)	TON	5	5			
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	566	566			
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	2681		2681		
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	163	163			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	3003				3003
42400800	DETECTABLE WARNINGS	SQ FT	296	24	272		
44000100	PAVEMENT REMOVAL	SQ YD	102	102			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	348	348			
44001430	BITUMINOUS SHOULDER REMOVAL	SQ YD	1055		1055		
44003100	MEDIAN REMOVAL	SQ FT	552		552		
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	23	23			
48202400	BITUMINOUS SHOULDERS SUPERPAVE 6"	SQ YD	2376		2376		
50105220	PIPE CULVERT REMOVAL	FOOT	107	107			
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	13		13		
542A8203	PIPE CULVERTS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 18"	FOOT	64	64			
542D5470	PIPE CULVERTS, CLASS D, TYPE 1, EQUIVALENT ROUND-SIZE 15"	FOOT	50	50			
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1			
54214290	END SECTIONS, EQUIVALENT ROUND-SIZE 15"	EACH	2	2			
54214503	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 18"	EACH	2	2			

* DESIGNATES SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. DATE: HORIZ.

DRAWN BY: CHECKED BY:

PLOT DATE * Mon Dec 05 13:46:43 2005
 PLOT SCALE * 1:2000 * / IN.
 USER NAME * rshimberb

SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CODE NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
				80% FED 20% STATE 1000-1A	90% FED 10% STATE J000-1A	90% FED 5% STATE 2.5% CITY 2.5% TWP Y031-1F	50% STATE 50% CITY SFTY 1-B
54214713	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 18"	EACH	1	1			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	12	12			
55035300	STORM SEWERS, TYPE 2, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 23, RISE 14	FOOT	58	58			
60107600	PIPE UNDERDRAINS 4"	FOOT	13	13			
60242400	INLETS, SPECIAL	EACH	3	3			
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1			
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1			
60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	1	1			
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	504	504			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	518	518			
63500110	DELINEATORS (SPECIAL)	EACH	7	7			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3			
67100100	MOBILIZATION	L SUM	1		1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	20	20			
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1			
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1		1		
72000100	SIGN PANEL - TYPE 1	SQ FT	32			32	
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	312		312		
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	11085		11085		
78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	1745		1745		
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	982		982		
78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	141		141		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	25		25		
* 80501000	SERVICE INSTALLATION, (SPECIAL)	EACH	1			1	
* 81400400	CONCRETE HANDHOLE	EACH	7			7	
* 81400600	CONCRETE DOUBLE HANDHOLE	EACH	1			1	
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	615			615	
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	59			59	
* 82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4			4	
* 82500605	LIGHTING CONTROLLER PHOTOCCELL RELAY	EACH	1			1	
* 85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1			1	
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	827			827	

* DESIGNATES SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY

PLOT DATE = Mon Dec 05 13:45:58 2005
 PLOT SCALE = 1:8000 / IN.
 USER NAME = cshannon

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CODE NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE HS			
				80% FED 20% STATE 1000-1A	90% FED 10% STATE J000-1A	90% FED 5% STATE 2.5% CITY 2.5% TWP Y031-1F	50% STATE 50% CITY SFTY 1-B
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	866			866	
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1156			1156	
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1564			1564	
* 87301515	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	3908			3908	
* 87601200	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	1			1	
* 87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1			1	
* 87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1			1	
* 87702990	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	2			2	
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3			3	
* 87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3.5			3.5	
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	58			58	
* 88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	10			10	
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	12			12	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	1960			1960	
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	6			6	
* B2002716	TREE, MALUS ADIRONDACK (ADIRONDACK CRAB APPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	1	1			
X0301893	REMOVE AND REINSTALL CONCRETE HEADWALL FOR PIPE DRAIN	EACH	2		2		
X0322939	RELOCATE EXISTING FLARED END SECTION	EACH	2		2		
* X0324885	CONDUIT INSTALLED 1", NON-METALLIC	FOOT	1485			1485	
* X0324887	CONDUIT INSTALLED 2 1/2", NON-METALLIC	FOOT	105			105	
* X0324888	CONDUIT INSTALLED 4", NON-METALLIC	FOOT	363			363	
X3550410	BITUMINOUS BASE COURSE SUPERPAVE 7 1/2"	SQ YD	685	685			
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	268		268		
X4066424	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	TON	217	217			
X4066765	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	TON	145	145			
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	1			
* X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6			6	
* X8801395	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4			4	
* X8801400	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4			4	
* X8810395	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	6			6	
* XX002182	STREET NAME SIGN MAST ARM MOUNT	EACH	4			4	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1		
Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	4057	866	3191		

* DESIGNATES SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

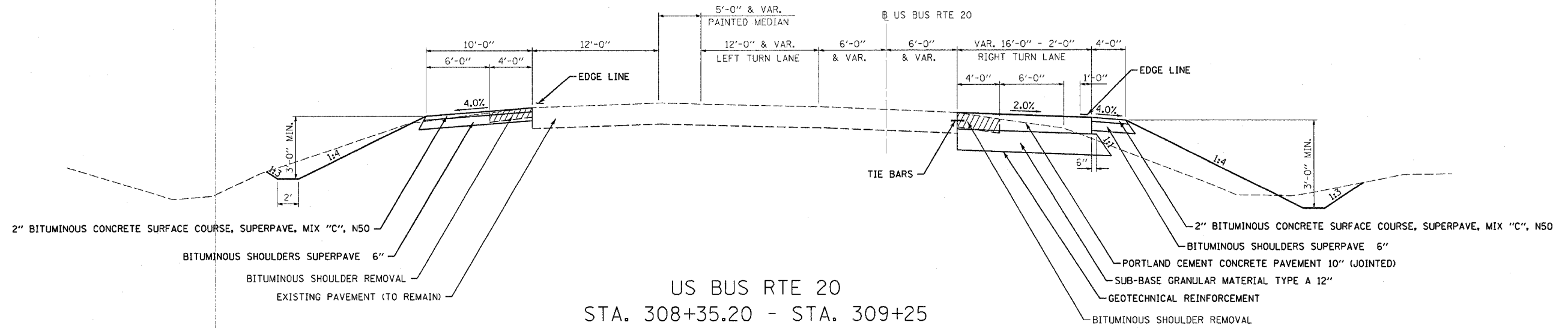
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 DATE

SUMMARY OF QUANTITIES

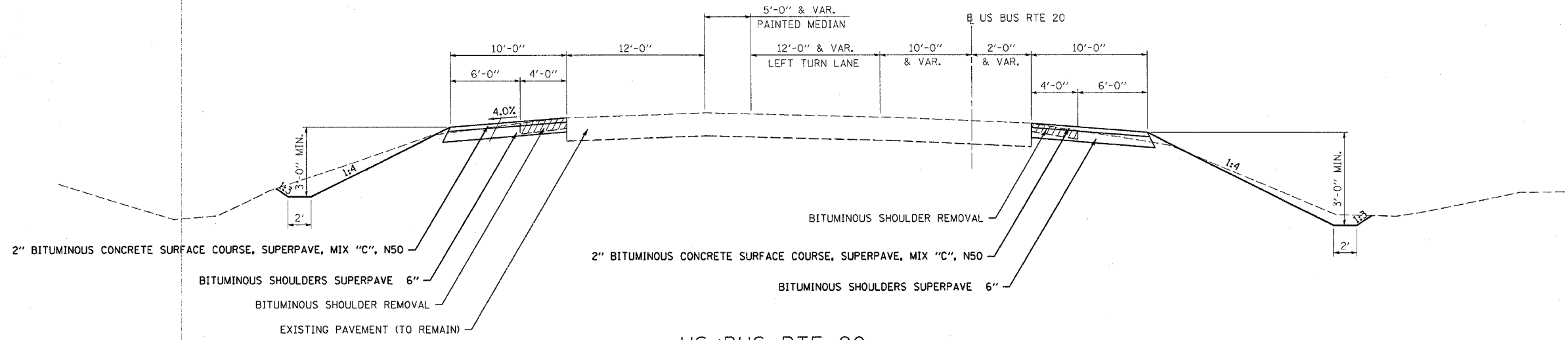
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

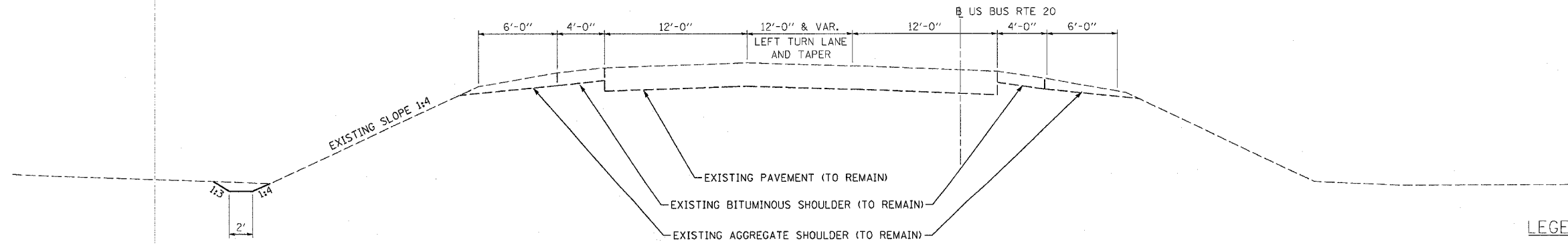
US BUS RTE 20
STA. 296+25 - STA. 307+65




US BUS RTE 20
STA. 308+35.20 - STA. 309+25



US BUS RTE 20
STA. 310+37 - STA 317+75



LEGEND

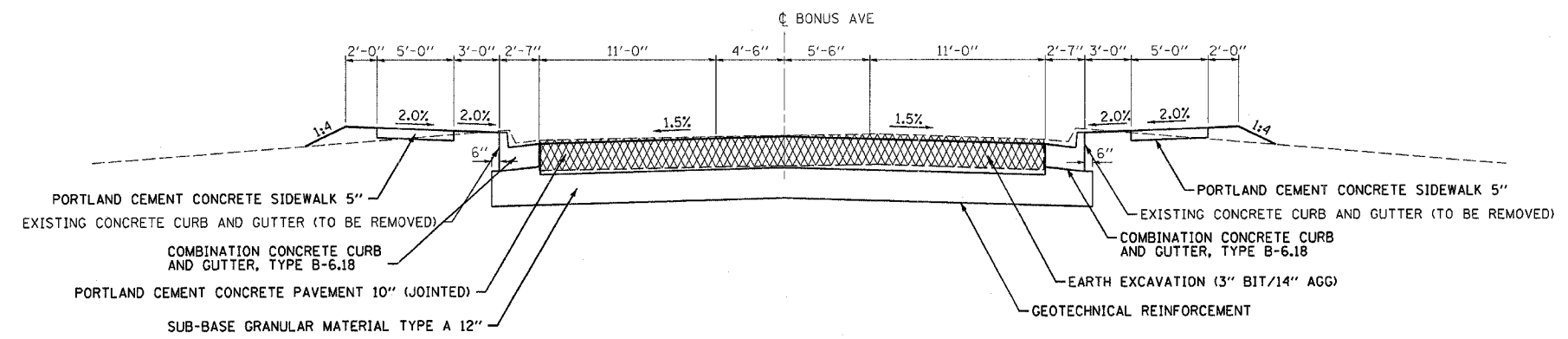
 BITUMINOUS SHOULDER REMOVAL

NOTE: SURFACE AND BINDER COURSES = 112 lb/ln/sq yd

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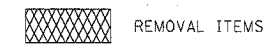
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517	L-M-3	BOONE	68	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

BONUS AVE
STA. 107+67.50 - STA. 109+82

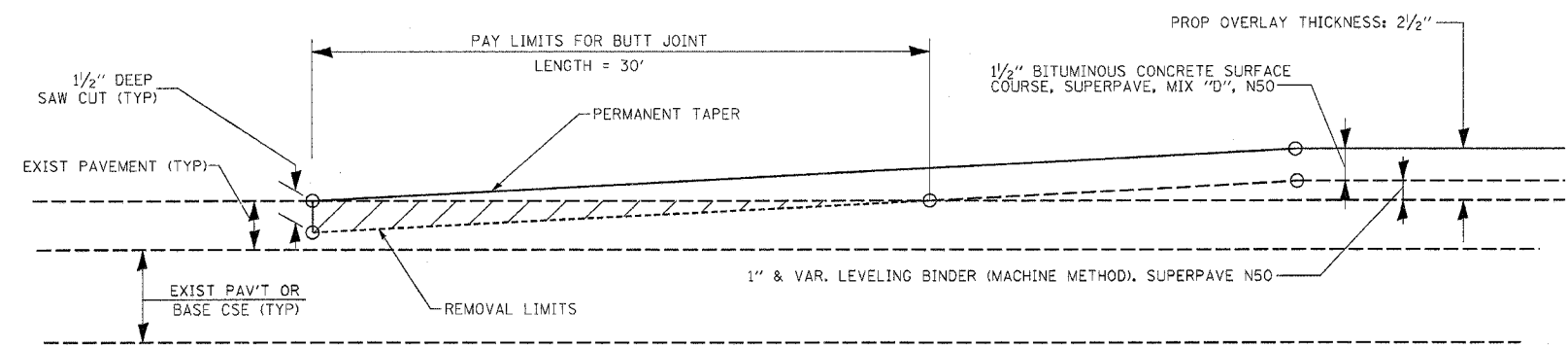


STRUCTURAL DESIGN TRAFFIC:	Year	2016
PV	14575	SU= 675 MU= 811
ROAD/STREET CLASSIFICATION:	Class	Class II
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:		
P =	50%	S = 50% M = 50%
TRAFFIC FACTOR:	Actual TF	5.54
SUBGRADE SUPPORT RATING:		
SSR =	Poor	(Sta 296+25.53 to 317+75.00)

LEGEND



NOTE: SURFACE AND BINDER COURSES = 112 lb/in/sq yd



BUTT JOINT DETAIL
STA. 110+35 TO STA. 110+65 BONUS AVE.
STA. 1014+67 TO STA. 1014+97 BONUS AVE. & MARENGO RD.

GENERAL NOTES

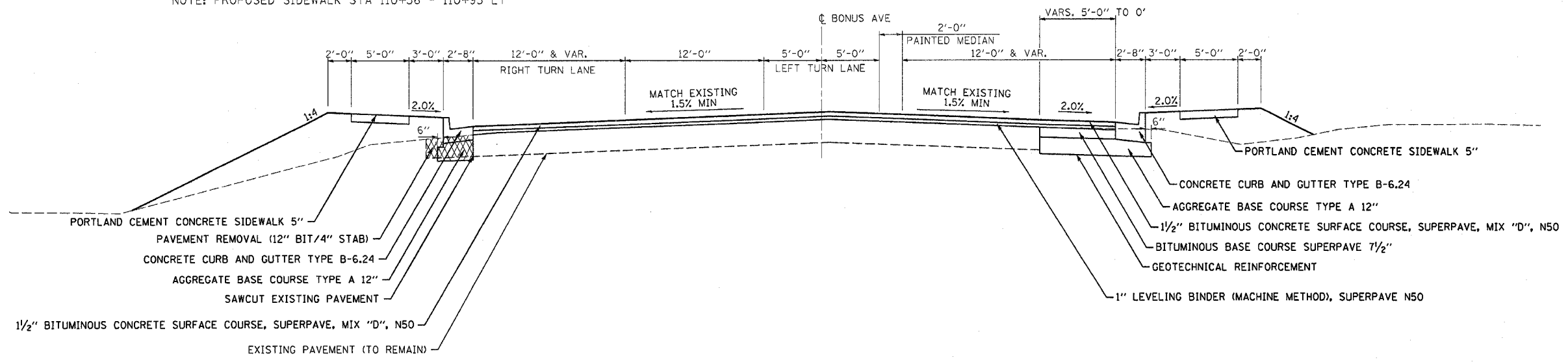
1. THE WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE 406.18
2. THE SAW CUT JOINTS SHALL BE PRIMED JUST PRIOR TO THE PLACING OF BITUMINOUS MATERIAL. THE WORK WILL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 406.06.

PLOT DATE = Thu, 19 Dec 2008 10:41:01 AM
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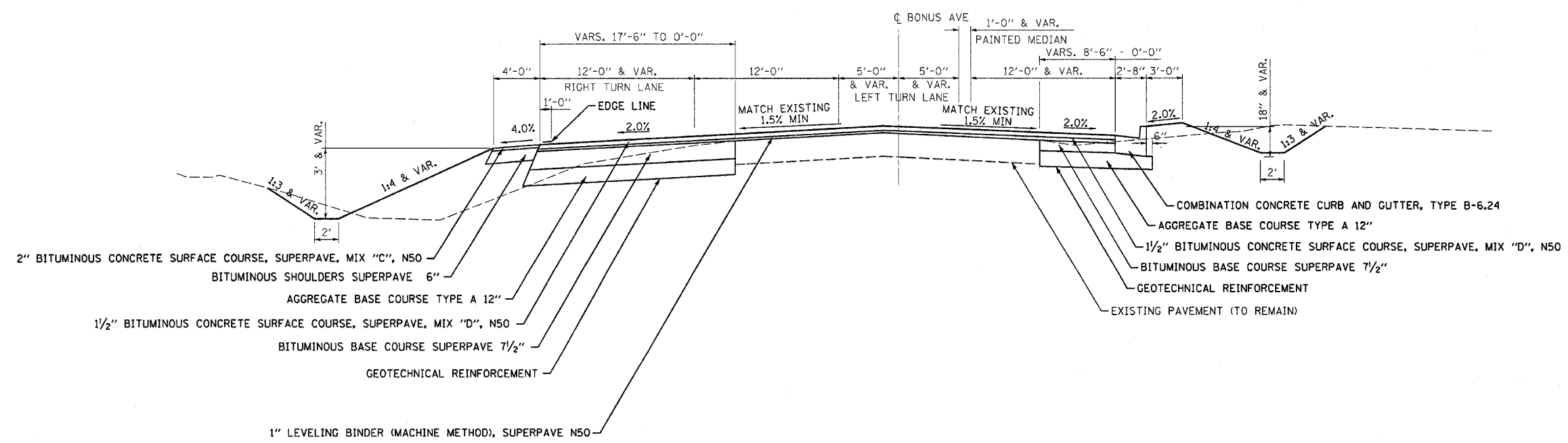
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517	L-M-3	BOONE	68	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BONUS AVE
STA. 110+35 - STA. 110+93.44

NOTE: PROPOSED SIDEWALK STA 110+56 - 110+95 LT



BONUS AVE
STA. 110+93.44 - STA. 114+13



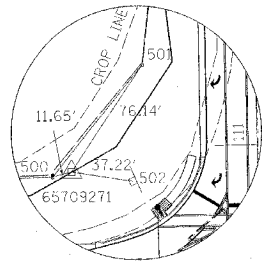
NOTE: SURFACE AND BINDER COURSES = 112 lb/in/sq yd

TYPICAL SECTIONS - BONUS AVENUE

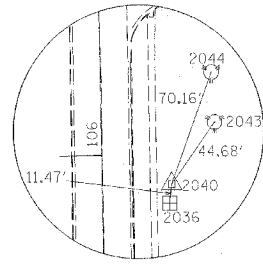
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

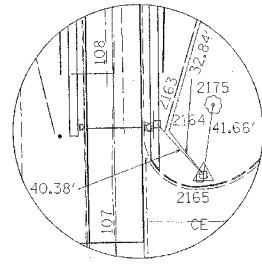
EXISTING HORIZONTAL AND VERTICAL CONTROL



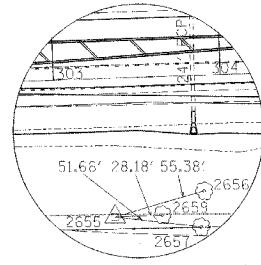
MAIN CONTROL POINT NO. 65709271



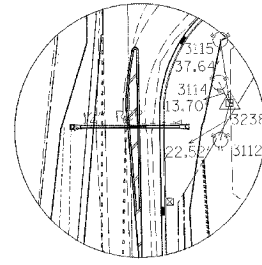
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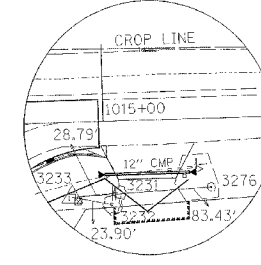
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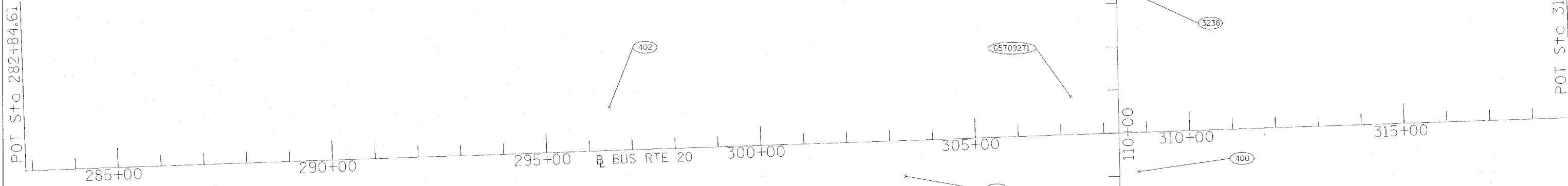
HORIZONTAL CONTROL POINT NO. 2655



HORIZONTAL CONTROL POINT NO. 3238



HORIZONTAL CONTROL POINT NO. 3233



REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	20	307+13.7709	85.0247 LT	FENCE POST
501	20	307+69.5518	149.5301 LT	FENCE POST
502	20	307+61.6860	80.9819 LT	SIGN
2036	BONUS	105+70.8626	40.3128 RT	BOX TELEPHONE
2043	BONUS	106+18.2804	68.0699 RT	TREE EVERGREEN
2044	BONUS	106+47.8490	66.5272 RT	TREE EVERGREEN
2163	BONUS	107+69.2508	25.9360 RT	SIGN
2164	BONUS	107+65.3404	32.9923 RT	FENCE
2175	BONUS	107+80.5060	59.7240 RT	TREE DECIDUOUS
2656	20	303+84.2011	78.8765 RT	TREE DECIDUOUS
2657	20	303+85.6672	81.6680 RT	TREE DECIDUOUS
2659	20	303+62.4920	81.8649 RT	TREE DECIDUOUS
3112	BONUS	112+91.3309	54.0980 RT	TREE EVERGREEN
3114	BONUS	113+25.3196	53.8567 RT	TREE EVERGREEN
3115	BONUS	113+50.3833	55.0468 RT	TREE EVERGREEN
3231	MARENGO	1015+07.2884	44.1198 RT	BUSH
3232	MARENGO	1015+03.5579	49.2787 RT	TREE DECIDUOUS
3276	MARENGO	1015+63.5072	40.5761 RT	TREE DECIDUOUS

BENCH MARKS							
POINT	NORTHING	EASTING	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	2046111.5550	2657876.1980	787.5190	20	308+77.8453	90.7568 RT	FIRE HYDRANT
401	2045831.8870	2658046.4830	785.4390	20	310+39.0752	375.7194 RT	FOUNDATION
402	2046263.6640	2656642.5940	786.5670	20	296+49.7672	100.9251 LT	POLE, POWER 253

MAIN CONTROL POINTS							
POINT	NORTHING	EASTING	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
65709271	2046285.0890	2657717.7770	786.5360	20	307+25.0906	87.7925 LT	D-2 NETWORK MONUMENT
65722882	2046044.3690	2655349.9580	782.3030	20	283+50.7631	76.7731 RT	D-2 NETWORK MONUMENT

HORIZONTAL CONTROL POINTS							
POINT	NORTHING	EASTING	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
2040	2045783.8710	2657879.1880	785.4770	BONUS	105+82.2583	41.6296 RT	GAS VALVE
2165	2045938.0160	2657887.0680	786.6260	BONUS	107+36.2518	52.0603 RT	SIGN
2655	2046102.7780	2657332.6540	782.5720	20	303+34.3126	82.0472 RT	POWER POLE
3238	2046514.8810	2657885.6290	786.1080	BONUS	113+25.3196	53.8567 RT	SIGN FOUNDATION
3233	2046556.6840	2657908.9720	785.7260	MARENGO	1014+83.6758	46.8546 RT	ROW MARKER



PLOT DATE = 08/20/14
 FILE NAME = 081414
 PLOT SCALE = 1"=40'
 REFERENCE = REF#

F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517 L-M-3	BOONE	68	10
STA. TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

GENERAL NOTES

See cross sections for special ditches and backslopes.

The removal of Bituminous Surfacing not on a rigid type base removed in conjunction with the base shall be removed as EARTH EXCAVATION. The removal of Bituminous Surfacing on a rigid type base removed in conjunction with the base shall be included in the contract unit price for PAVEMENT REMOVAL of the type specified.

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 6 (modified) shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1 (modified). Class 6 (modified) shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

Fertilizer Nutrients shall be applied at the rate specified in Sections 250 and 252 of the Standard Specifications. This shall be included in the cost of the SEEDING or SODDING.

When mulch with emulsified asphalt is applied, it will be the contractor's responsibility to cover or protect all traffic signs, guardrail and curbs. Any signs, guardrail or curbs which become covered with asphaltic material shall be cleaned by the Contractor at his own expense.

Subbase Drains and Underdrain Specials shall be fully installed, operational, and outleted prior to the placement of any related pavement structure.

Previously pugmilled stockpiles of "Type A" older than 1 month will not be approved for use until a moisture check is run to verify moisture content. Material shipped to projects without being tested will not be accepted.

Placement and compaction of Trench Backfill for AR culverts shall conform to Section 502.10 of the Standard Specifications except that the material shall be compacted to a minimum of 95% of standard laboratory density. The entire excavation within 2' outside of each shoulder shall be back filled with Trench Backfill material. The pay limits for Trench Backfill shall extend from 2' outside each vertical culvert wall at the base of the culvert floor and shall extend vertically to the bottom of the proposed subgrade. This work shall be included in the unit price per Cubic Yard for TRENCH BACKFILL.

Except for the top 75 mm (3"), all aggregate bases and subbases 300 mm (12") in thickness shall be constructed of aggregate gradation CA-2. If the specified thickness exceeds 300 mm (12"), the bases or subbases shall be constructed of topsize 150 mm (6") breaker-run crushed stone with 15% to 40% by weight passing the 50 mm (2") size sieve, except for the top 75 mm (3"). The breaker-run crushed stone shall be reasonably uniformly graded from coarse to fine and be taken from a quarry ledge capable of producing Class 'D' quality aggregate. The top 75 mm (3") shall be gradation CA-6 or CA-10 regardless of thickness. The water necessary to achieve compaction in all but the top 75 mm (3") layer may be added after the subbase or base course is placed on the grade.

All embankment constructed of cohesive soil shall be constructed with not more than 10% of optimum moisture content, determined by the standard proctor test. Cohesive soil shall be defined as any soil which contains greater than 10% particles by weight passing the 75 µm (#200 sieve). The 10% of optimum moisture limit may be waived in free-draining granular material when approved by the Engineer.

Replace missing RAISED PAVEMENT MARKERS as directed by the Engineer.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Binder	L. Binder	Top Shoulder	Bottom Shoulder
PG:	64-22	64-22	64-22	58-22	58-22
RAP% (Mcx)	15%	25%	25%	30%	30%
Design Air Voids	4.2 @ N50	4.2 @ N50	4.2 @ N50	3.0	2.0
Mixture Composition (Gradation Mixture)	IL 12.5	IL 19.0	IL 9.5	IL 12.5	BAM
Friction Aggregate	D	N/A	N/A	C	C
20 Year ESAL	0.5	0.5	0.5	N/A	N/A

The excavated materials from earth excavation widening, grading and shaping ditches, and excavating and grading shoulders shall be used to build up the shoulder throughout the job to conform with the typical sections and shoulder widening for terminals as shown on the plans.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180-degrees and only metal-backed delineators shall be permitted.

The Contractor shall salvage existing delineators within the project limits and place one at each headwall or end section of AR culverts. The work shall be included in the contract unit price for END SECTIONS, EQUIVALENT ROUND SIZE 15", PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND SIZE 18", PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND SIZE 18", and RELOCATE EXISTING FLARED END SECTION. Where new delineators are required if there are not enough salvageable delineators, they shall be placed per District 2 Detail 37.4, Delineator and Post, and paid for as DELINEATOR (SPECIAL).

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

The underdrain system scheduled on this project is to be constructed in accordance with Section 601 of the Standard Specifications for Road and Bridge Construction, except when the Recurring Special Provision Pipe Underdrains is included, the fabric envelope encasement of the pipe shall be omitted.

Pavement Marking shall be done according to Standard 780001, except as follows:

- All words, such as ONLY, shall be 2.4 m (8 feet) high.
- All non-freeway arrows shall be the large size.
- The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

All gutter outlets shall be extended to ditch flow as directed by the Engineer.

Aggregate Base Course, Type B, is provided in the plan quantities and shall be used only as needed when directed by the Engineer.

The Contractor shall place contraction joints in prolongation with joints in the existing pavement. The joint shall be a sawed contraction joint with dowel bar assembly as shown on Highway Standard 420001. The cost for this work shall be included in the contract unit price for the PCC PAVEMENT.

Tie bars shall be installed to tie PCC appurtenance to adjacent existing concrete pavement.

Tie the following to the existing concrete pavement Length, size, and spacing of Tie Bars

Cutter or Curb & Gutter	Std. 606001	600 mm (24") long No. 20 (No. 6) @ 600 mm (24") centers
PCC Base Course	Std. 353001	600 mm (24") long No. 20 (No. 6) @ 750 mm (30") centers
PCC Pavement	Std. 420101	600 mm (24") long No. 20 (No. 6) @ 750 mm (30") centers

All tie bars shall be epoxy coated.

Tie bars to be installed in accordance with the applicable portions of Article 420.10(b) of the Standard Specifications. See Highway Standard 420001 for detail on longitudinal construction joint grouted-in-place tie bar. The cost of the tie bars to be included in the cost of the PCC appurtenance adjacent to the existing pavement.

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

All signs within construction limits shall be removed and stored for reuse when applicable. The Contractor shall install the signs as directed by the Engineer and the City. Signs that are not used shall become the properties of the City and/or IDOT where applicable. This work will be included in the unit price for Earth Excavation.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Utilities

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

ELECTRIC
 Commonwealth Edison
 123 Energy Ave.
 Rockford, IL 61109
 Mr. Mike Lenox
 Ph # (815) 490-2869

TELEPHONE
 Verizon
 112 West Elm Street
 Sycamore, IL 60178
 Mr. Kalin Hinshaw
 Ph # (815) 895-1515

GAS
 NICOR Gas Co.
 1844 Ferry Road
 Naperville, IL 60563-9600
 Mr. Scott Stogsdill
 Ph # (630) 983-8676

CAT
 Insight Communications of Rockford
 811 - 21st Street
 Rockford, IL 61108
 Mr. Mike Owens
 Ph # (815) 962-4400

WATER & SEWER
 City of Belvidere
 210 Whitley
 Belvidere, IL 61008
 Mr. Brent Anderson
 Ph # (815) 544-9256

Following are the known utilities located within the project limits or immediately adjacent to the project construction limits which are not members of JULIE and should be notified individually by the contractor:

HIGHWAY LIGHTING
 Mr. Dennis Schultz
 IDOT - District 2
 819 Depot Ave.
 Dixon, IL 61021
 Ph: 815/284-5469

The applicable portions of Article 105.07 of the Standard Specification shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Letting Date + 135 days

POLICY GUIDELINES

All trees removed from the project area (5 trees, max.) for construction or maintenance purposes will be replaced with deciduous tree species which are native to the District 2 area. Trees will be replaced according to the IDOT Departmental Policy D&E-18 (September 18, 2002). The location of the replacement trees shall be determined by the District 2 Landscape Architect.

COMMITMENTS

The Belvidere Community School District No. 100 will be notified when a construction date has been established for this Project. The Point of Contact is Superintendent James D. Metz at (815) 440-8686, (815) 544-4260 Fax, and/or jmetz@district100.com.

The Contractor shall save two trees located at Rt. Sta. 11+50 and 11+70.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION		UNITS	REMARKS
112+25.00	RT	20	
		TOTAL	20

20800150 TRENCH BACKFILL

LOCATION		CU YD	REMARKS
111+98.00 TO 112+02.00	AR	21	18" ERS STORM SEWER
112+98.00 TO 113+02.00	AR	17	18" ERS RCP CULVERT
		TOTAL	38

25000910 SEEDING, CLASS 1 (MODIFIED)

LOCATION		ACRES	REMARKS
111+00.00 TO 114+00.00	RT	0.14	
1015+00.0 TO 1015+50.00	RT	0.01	
		TOTAL	0.2

25001830 SEEDING, CLASS 6 (MODIFIED)

LOCATION		ACRES	REMARKS
296+25.56 TO 300+00.00	RT	0.11	
300+00.0 TO 306+00.00	RT	0.25	
303+50.0 TO 306+00.00	LT	0.16	
306+00.0 TO 307+50.00	RT	0.09	
306+00.0 TO 307+50.00	LT	0.12	
309+50.0 TO 310+37.41	RT	0.02	
309+50.0 TO 310+37.41	LT	0.02	
107+67.50 TO 109+86.79	LT	0.06	
110+50.00 TO 111+00.00	LT	0.04	
111+00.00 TO 114+00.00	LT	0.12	
		TOTAL	1.0

28000250 TEMPORARY EROSION CONTROL SEEDING

LOCATION		LBS	REMARKS
296+25.56 TO 300+00.00	RT	11	
300+00.0 TO 306+00.00	RT	25	
303+50.0 TO 306+00.00	LT	16	
306+00.0 TO 307+50.00	RT	8	
306+00.0 TO 307+50.00	LT	12	
309+50.0 TO 310+37.41	RT	2	
309+50.0 TO 310+37.41	LT	2	
107+67.50 TO 109+86.79	RT	7	
107+67.50 TO 109+86.79	LT	6	
110+50.00 TO 111+00.00	LT	4	
111+00.00 TO 114+00.00	LT	14	
111+00.00 TO 114+00.00	RT	12	
1015+00.0 TO 1015+50.00	RT	1	
		TOTAL	120

25100120 MULCH, METHOD 2

LOCATION		TONS	REMARKS
296+25.56 TO 300+00.00	RT	0.22	
300+00.0 TO 306+00.00	RT	0.50	
303+50.0 TO 306+00.00	LT	0.32	
306+00.0 TO 307+50.00	RT	0.18	
306+00.0 TO 307+50.00	LT	0.24	
309+50.0 TO 310+37.41	RT	0.04	
309+50.0 TO 310+37.41	LT	0.04	
107+67.50 TO 109+86.79	RT	0.14	
107+67.50 TO 109+86.79	LT	0.12	
110+50.00 TO 111+00.00	LT	0.08	
111+00.00 TO 114+00.00	LT	0.24	
111+00.00 TO 114+00.00	RT	0.28	
1015+00.0 TO 1015+50.00	RT	0.02	
		TOTAL	2.4

28000300 TEMPORARY DITCH CHECKS

LOCATION		EACH	REMARKS
296+34.00	LT	1	
298+84.00	LT	1	
301+34.00	LT	1	
306+34.00	LT	1	
307+50.00	LT	1	
112+00.00	LT	1	
		TOTAL	6

28000500 INLET AND PIPE PROTECTION

LOCATION		EACH	REMARKS
303+83.14	LT	1	24" RCP CULVERT EXTENSION
111+50.00	RT	1	INLET, SPECIAL
112+75.00	RT	1	INLET, SPECIAL
112+75.00	RT	1	18" ERS STORM SEWER
1015+50.00	RT	1	15" ERS CULVERT
		TOTAL	5

31100910 SUB-BASE GRANULAR MATERIAL, TYPE A 12"

LOCATION		SQ YD	REMARKS
296+25.56 TO 300+00.00		569	
300+00.0 TO 306+00.00		488	
306+00.0 TO 307+50.00		200	
107+67.50 TO 109+94.86		1637	
		TOTAL	2894

35101100 AGGREGATE BASE COURSE, TYPE A 12"

LOCATION		SQ YD	REMARKS
110+34.97 TO 111+00.00		25	
111+00.00 TO 114+13.37		715	
		TOTAL	740

35102000 AGGREGATE BASE COURSE, TYPE B 8"

LOCATION		SQ YD	REMARKS
111+95.00	RT	63	COMMERCIAL ENTRANCE
1015+25.00	RT	100	COMMERCIAL ENTRANCE
		TOTAL	163

40600200 BITUMINOUS MATERIALS (PRIME COAT)

LOCATION		TON	REMARKS
110+34.97 TO 111+00.00		0.40	
111+00.00 TO 114+97.00		1.10	
		TOTAL	1.50

40600300 AGGREGATE (PRIME COAT)

LOCATION		TONS	REMARKS
110+34.97 TO 111+00.00		1.4	
111+00.00 TO 114+97.00		3.8	
		TOTAL	5.2

40600980 BITUMINOUS SURFACE REMOVAL - BUTT JOINT

LOCATION		SQ YD	REMARKS
110+34.90 TO 110+64.90		474	
1014+67.2 TO 1014+97.20		92	
		TOTAL	566

PLOT DATE = Thu Nov 19 10:16:37 2009
 PLOT SCALE = 1:8000 / IN
 REFERENCE = #REF*
 & Bonus Ave\VP-92-908-035\trial From Consultant\204895SCH.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

54214713 PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 18"

LOCATION		EACH	REMARKS
111+50.00	LT	1	STRUCTURE FES-3
		TOTAL	1

54213657 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"

LOCATION		EACH	REMARKS
113+40.33	RT	1	STRUCTURE FES-4
		TOTAL	1

550A0050 STORM SEWERS, CLASS A, TYPE 2, 12"

LOCATION		FOOT	REMARKS
112+00.00 TO 112+00.00	RT	12	
		TOTAL	12

55035300 STORM SEWERS, TYPE 2, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 23, RISE 14

LOCATION		FOOT	REMARKS
111+50.00 TO 111+50.00	AR	60	
		TOTAL	60

60107600 PIPE UNDERDRAINS 4"

LOCATION		FOOT	REMARKS
299+32.61	RT	9	
112+75.00	RT	4	
		TOTAL	13

60242400 INLETS, SPECIAL

LOCATION		EACH	REMARKS
112+00.00	RT	1	STRUCTURE INL-2, IN DRIVEWAY
113+00.00	RT	1	STRUCTURE INL-1
113+47.83	RT	1	STRUCTURE INL-3
		TOTAL	3

60255500 MANHOLES TO BE ADJUSTED

LOCATION		EACH	REMARKS
109+14.77	RT	1	UTILITY MANHOLE
		TOTAL	1

60265700 VALVE VAULTS TO BE ADJUSTED

LOCATION		EACH	REMARKS
109+03.43	RT	1	WATER VALVE VAULT
		TOTAL	1

60266100 VALVE VAULTS TO BE RECONSTRUCTED

LOCATION		EACH	REMARKS
109+13.61	LT	1	WATER VALVE VAULT
		TOTAL	1

60604400 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18

LOCATION		FOOT	REMARKS
107+39.75 TO 107+50.83	RT	8.8	CURB CUT
107+67.50 TO 109+00.00	LT	132.5	
107+67.50 TO 109+00.00	RT	132.5	
109+00.00 TO 109+80.96	LT	101.2	RADIUS RETURN
109+00.00 TO 109+89.74	RT	129.0	RADIUS RETURN
		TOTAL	504

60605000 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

LOCATION		FOOT	REMARKS
110+42.08 TO 110+93.44	LT	91.7	RADIUS RETURN
110+43.00 TO 111+00.00	RT	94.8	RADIUS RETURN
111+00.00 TO 113+00.00	RT	200.0	
113+00.00 TO 113+86.08	RT	131.1	RADIUS RETURN
		TOTAL	518

63500110 DELINEATORS (SPECIAL)

		EACH	REMARKS
303+83.22	RT	1	CUVLERT EXTENSION
303+83.14	LT	1	CUVLERT EXTENSION
111+50.00	LT	1	STORM SEWER OUTLET
112+75.00	RT	1	AR CULVERT
112+75.00	LT	1	AR CULVERT
1015+00.00	RT	1	ENTRANCE CULVERT
1015+50.00	RT	1	ENTRANCE CULVERT
		TOTAL	7

67000400 ENGINEER'S FIELD OFFICE, TYPE A

	CAL MO	REMARKS
	3	
		TOTAL

67100100 MOBILIZATION

	L SUM	REMARKS
	1	
		TOTAL

70103815 TRAFFIC CONTROL SURVEILLANCE

	CAL DAY	REMARKS
	20	
		TOTAL

70100450 TRAFFIC CONTROL AND PROTECTION, STANDARD 701201

	L SUM	REMARKS
	1	
		TOTAL

70100500 TRAFFIC CONTROL AND PROTECTION, STANDARD 701326

	L SUM	REMARKS
	1	
		TOTAL

PLOT DATE = Thu Nov 18 18:46:08 2005
 FILE NAME = P:\NUMBER STUTZ\Projects\Work Order -#505 28 BR & Bonus Area\10-12-04-035.incl From Consultant\20480351.dgn
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

78008200 POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS

LOCATION		SO FT	REMARKS
305+12.50	LT	15.6	WHITE LT-TURN ARROW
305+12.50	RT	15.6	WHITE RT-TURN ARROW
305+87.50	LT	15.6	WHITE LT-TURN ARROW
305+87.50	RT	15.6	WHITE RT-TURN ARROW
306+62.50	LT	15.6	WHITE LT-TURN ARROW
306+62.50	RT	15.6	WHITE RT-TURN ARROW
307+37.50	LT	15.6	WHITE LT-TURN ARROW
307+37.50	RT	15.6	WHITE RT-TURN ARROW
309+27.90	LT	15.6	WHITE LT-TURN ARROW
310+02.90	LT	15.6	WHITE LT-TURN ARROW
310+77.90	LT	15.6	WHITE LT-TURN ARROW
311+52.90	LT	15.6	WHITE LT-TURN ARROW
108+68.80	CL	15.6	WHITE LT-TURN ARROW
108+43.80	CL	15.6	WHITE LT-TURN ARROW
110+83.50	CL	15.6	WHITE LT-TURN ARROW
110+83.50	LT	15.6	WHITE RT-TURN ARROW
111+41.44	LT	15.6	WHITE LT-TURN ARROW
111+41.44	RT	15.6	WHITE RT-TURN ARROW
111+99.44	LT	15.6	WHITE LT-TURN ARROW
111+99.44	RT	15.6	WHITE RT-TURN ARROW
		TOTAL	312

110+63.40 TO 111+00.00	RT	36.6	YELLOW CENTERLINE
110+63.40 TO 111+00.00	RT	36.6	YELLOW CENTERLINE
111+00.00 TO 112+48.07	RT	148.1	YELLOW CENTERLINE
111+00.00 TO 112+51.30	RT	151.3	YELLOW CENTERLINE
112+48.07 TO 113+47.11	RT	99.0	YELLOW CENTERLINE
112+48.07 TO 113+47.11	RT	99.0	YELLOW CENTERLINE
112+51.30 TO 113+47.11	RT	95.8	YELLOW CENTERLINE
112+51.30 TO 113+47.11	RT	95.8	YELLOW CENTERLINE
		YELLOW SUBTOTAL:	7531.5
		TOTAL	11120.7

78008210 POLYUREA PAVEMENT MARKING TYPE I - LINE 4"

LOCATION		FOOT	REMARKS
296+25.56 TO 300+00.00	LT	374.4	WHITE EDGE LINE
296+25.56 TO 300+00.00	RT	374.4	WHITE EDGE LINE
300+00.0 TO 306+00.00	LT	600.0	WHITE EDGE LINE
300+00.0 TO 302+25.41	RT	225.4	WHITE EDGE LINE
302+50.0 TO 306+00.00	RT	350.0	WHITE EDGE LINE
305+50.0 TO 306+00.00	LT	50.0	WHITE TURN LANE LINE
305+50.0 TO 306+00.00	LT	50.0	WHITE TURN LANE LINE
306+00.0 TO 307+38.00	LT	138.0	WHITE EDGE LINE
306+00.0 TO 307+57.50	LT	157.5	WHITE TURN LANE LINE
306+00.0 TO 307+57.50	LT	157.5	WHITE TURN LANE LINE
306+00.0 TO 307+57.50	RT	157.5	WHITE EDGE LINE
309+08.0 TO 310+37.41	RT	129.4	WHITE EDGE LINE
309+08.0 TO 311+14.13	LT	206.1	WHITE TURN LANE LINE
309+08.0 TO 311+14.13	LT	206.1	WHITE TURN LANE LINE
309+43.89 TO 310+37.43	LT	93.5	WHITE EDGE LINE
110+93.44 TO 111+00.00	LT	6.6	WHITE EDGE LINE
111+00.00 TO 114+13.21	LT	313.2	WHITE EDGE LINE
		WHITE SUBTOTAL:	3589.2
296+25.56 TO 297+18.50	LT	92.9	YELLOW CENTERLINE
296+25.56 TO 297+18.50	LT	92.9	YELLOW CENTERLINE
297+18.50 TO 300+00.00	LT	281.5	YELLOW MEDIAN TAPER
297+18.50 TO 300+00.00	LT	281.5	YELLOW MEDIAN TAPER
297+18.50 TO 300+00.00	LT	281.5	YELLOW MEDIAN TAPER
297+18.50 TO 300+00.00	LT	281.5	YELLOW MEDIAN TAPER
300+00.0 TO 304+66.75	LT	466.8	YELLOW MEDIAN TAPER
300+00.0 TO 304+66.75	LT	466.8	YELLOW MEDIAN TAPER
300+00.0 TO 304+69.92	LT	469.9	YELLOW MEDIAN TAPER
300+00.0 TO 304+69.92	LT	469.9	YELLOW MEDIAN TAPER
304+66.75 TO 306+00.00	LT	133.3	YELLOW MEDIAN LINE
304+69.92 TO 306+00.00	LT	130.1	YELLOW MEDIAN LINE
306+00.0 TO 307+57.50	LT	157.5	YELLOW MEDIAN LINE
306+00.0 TO 307+57.50	LT	157.5	YELLOW MEDIAN LINE
309+08.0 TO 311+70.20	LT	262.2	YELLOW MEDIAN LINE
309+08.0 TO 311+85.77	LT	277.8	YELLOW MEDIAN LINE
311+70.20 TO 312+00.00	LT	29.8	YELLOW MEDIAN LINE
311+70.20 TO 312+00.00	LT	29.8	YELLOW MEDIAN LINE
311+85.77 TO 312+00.00	LT	14.2	YELLOW MEDIAN LINE
311+85.77 TO 312+00.00	LT	14.2	YELLOW MEDIAN LINE
312+00.00 TO 316+86.71	LT	486.7	YELLOW MEDIAN LINE
312+00.00 TO 316+86.71	LT	486.7	YELLOW MEDIAN LINE
312+00.00 TO 316+89.14	LT	489.1	YELLOW MEDIAN LINE
312+00.00 TO 316+89.14	LT	489.1	YELLOW MEDIAN LINE
316+86.71 TO 317+72.97	LT	86.3	YELLOW MEDIAN LINE
316+89.14 TO 317+72.97	LT	83.8	YELLOW MEDIAN LINE
108+44.31 TO 109+54.00	LT	109.7	YELLOW CENTERLINE
108+44.31 TO 109+54.00	LT	109.7	YELLOW CENTERLINE
110+63.40 TO 111+00.00	RT	36.6	YELLOW CENTERLINE

78008240 POLYUREA PAVEMENT MARKING TYPE I - LINE 8"

LOCATION		FOOT	REMARKS
302+25.41 TO 304+90.41	LT	87.5	WHITE DASHED LINE
302+25.41 TO 304+90.41	RT	87.5	WHITE DASHED LINE
304+90.41 TO 305+50.00	RT	109.6	WHITE TURN LANE LINE
304+90.41 TO 305+00.00	LT	9.6	WHITE TURN LANE LINE
306+00.0 TO 307+57.50	RT	157.5	WHITE TURN LANE LINE
307+75.11 TO 308+83.31	LT	108.2	WHITE CROSSWALK LINE
307+75.11 TO 308+83.31	LT	108.2	WHITE CROSSWALK LINE
307+85.66 TO 308+86.84	LT	101.2	WHITE CROSSWALK LINE
307+85.66 TO 308+86.84	LT	101.2	WHITE CROSSWALK LINE
307+86.89 TO 308+17.80	RT	95.2	WHITE ISLAND EDGE LINE
308+53.06 TO 309+02.20	RT	142.1	WHITE ISLAND EDGE LINE
308+86.84 TO 308+86.84	AR	88.1	WHITE CROSSWALK LINE
308+94.18 TO 308+94.18	AR	87.2	WHITE CROSSWALK LINE
311+14.13 TO 311+72.97	LT	58.8	WHITE TURN LANE LINE
311+72.97 TO 312+00.00	LT	8.9	WHITE DASHED LINE
312+00.00 TO 314+37.97	LT	78.5	WHITE DASHED LINE
111+00.00 TO 112+19.54	LT	119.5	WHITE TURN LANE LINE
111+00.00 TO 112+19.54	LT	119.5	WHITE TURN LANE LINE
112+19.54 TO 113+13.29	LT	31.3	WHITE DASHED LINE
112+19.54 TO 113+54.55	LT	45.0	WHITE DASHED LINE
		TOTAL	1745

78008250 POLYUREA PAVEMENT MARKING TYPE I - LINE 12"

LOCATION		FOOT	REMARKS
296+26.22 TO 299+87.91	RT	172.6	WHITE WIDENING HASH MARKS
300+12.64 TO 301+63.52	RT	23.1	WHITE WIDENING HASH MARKS
305+92.50 TO 310+72.97	LT	22.8	WHITE TURN LANE CHEVRONS
307+86.89 TO 308+17.80	LT	106.0	WHITE ISLAND STRIPING
308+53.06 TO 309+02.20	RT	172.3	WHITE ISLAND STRIPING
		WHITE SUBTOTAL:	497
296+55.74 TO 299+95.74	LT	65.2	YELLOW MEDIAN HASH MARKS
300+15.74 TO 305+90.37	LT	230.2	YELLOW MEDIAN HASH MARKS
306+15.74 TO 307+38.70	RT	15.6	YELLOW MEDIAN HASH MARKS
309+19.17 TO 311+92.05	LT	42.2	YELLOW MEDIAN HASH MARKS
312+15.53 TO 317+47.68	LT	101.7	YELLOW MEDIAN HASH MARKS
112+29.00 TO 112+32.38	RT	2.9	YELLOW MEDIAN HASH MARKS
112+48.07 TO 112+51.30	RT	4.6	YELLOW MEDIAN HASH MARKS
112+67.75 TO 112+71.72	RT	3.7	YELLOW MEDIAN HASH MARKS
112+86.50 TO 112+91.72	RT	5.5	YELLOW MEDIAN HASH MARKS
113+05.25 TO 113+11.72	RT	7.3	YELLOW MEDIAN HASH MARKS
113+25.67 TO 113+31.72	RT	6.6	YELLOW MEDIAN HASH MARKS
		YELLOW SUBTOTAL:	485
		TOTAL	982

78008270 POLYUREA PAVEMENT MARKING TYPE I - LINE 24"

LOCATION		FOOT	REMARKS
307+55.50 TO 307+57.50	RT	11.0	WHITE STOP BAR
307+55.50 TO 307+57.50	CL	24.0	WHITE STOP BAR
309+08.0 TO 309+10.00	LT	11.0	WHITE STOP BAR
309+08.0 TO 309+10.00	LT	15.0	WHITE STOP BAR
109+52.00 TO 109+54.00	CL	22.0	WHITE STOP BAR
109+41.81 TO 109+53.98	RT	18.0	WHITE STOP BAR
110+63.40 TO 110+65.40	CL	22.0	WHITE STOP BAR
110+63.40 TO 110+74.61	LT	18.0	WHITE STOP BAR
		TOTAL	141

PLOT DATE : Thu Nov 18 18:45:56 2009
 FILE NAME : P:\WORK\PROJECTS\Work Order - #505 26 BR & Bonus Area\10-12-08-08-03\Final Consultant\20480301.dgn
 PLOT SCALE : 1" = 100'
 REFERENCE : REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

78100100 RAISED REFLECTIVE PAVEMENT MARKERS

LOCATION	EACH	REMARKS
296+25.56 TO 317+75.00	25	CONFIRM QUANTITY BEFORE ORDERING
TOTAL	25	

B2002716 TREE, MALUS ADIRONDACK (ADIRONDACK CRAB APPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED

LOCATION	RT	EACH	REMARKS
112+25		1	
TOTAL		1	

X0301508 REMOVE AND REINSTALL CONCRETE HEADWALL FOR PIPE DRAIN

LOCATION	RT	EACH	REMARKS
233+33.16		1	
302+33.12		1	
TOTAL		2	

X0322939 RELOCATE EXISTING FLARED END SECTION

LOCATION	RT	EACH	REMARKS
303+83.14	LT	1	
303+83.22	RT	1	
TOTAL		2	

X3550410 BITUMINOUS CONCRETE BASE COURSE SUPERPAVE 7 1/2"

LOCATION	LT	SQ YD	REMARKS
307+93.64 TO 308+17.85		30.0	ISLAND REMOVAL
110+69.99 TO 111+00.00		13.8	
111+00.00 TO 114+13.37		641.5	
TOTAL		685	

X4066414 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50

LOCATION	TON	REMARKS
296+25.56 TO 300+00.00	93.2	SHOULDER
300+00.0 TO 307+65.12	149.2	SHOULDER
309+00.0 TO 310+37.43	25.8	SHOULDER
TOTAL	268	

X4066424 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50

LOCATION	TON	REMARKS
110+35.00 TO 111+00.00	58.7	BONUS AVE.
111+00.00 TO 114+13.37	158.3	BONUS AVE.
TOTAL	217	

X4066765 LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50

LOCATION	TON	REMARKS
110+35.00 TO 111+00.00	39.1	BONUS AVE.
111+00.00 TO 114+13.37	105.9	BONUS AVE.
TOTAL	145	

X7013015 TRAFFIC CONTROL FOR ROAD CLOSURE

LOCATION	L SUM	REMARKS
	1	BONUS AVE.
TOTAL	1	

Z0013798 CONSTRUCTION LAYOUT

LOCATION	L SUM	REMARKS
	1	
TOTAL	1	

EARTHWORK SCHEDULE

LOCATION		20200100 EARTH EXCAVATION (CU)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (SHORTAGE)
FROM	TO	CU YD	CU YD	CU YD	CU YD
Business Route 20					
269+50.00	300+00.00	355.1	266.4	361.4	(95.0)
300+00.00	306+00.00	566.0	424.5	285.0	139.5
306+00.00	307+50.00	346.0	259.5	59.3	200.3
309+00.00	312+00.00	163.3	122.5	63.5	58.9
312+00.00	315+83.83	19.1	14.3	3.5	10.8
Bonus Ave.					
108+00.00	109+97.83	372.2	279.1	77.5	201.6
109+97.83	111+00.00	23.9	17.9	20.8	(2.9)
111+00.00	114+00.00	271.5	203.6	242.8	(39.2)
Marengo Rd.					
1014+00.00	1015+01.36	48.6	36.5	39.9	(3.4)
Entrances					
111+95.00	RT	2.6	2.0		2.0
1015+25.00	RT	4.2	3.2		3.2
	TOTALS	2172	1629	1154	476
		20200100 EARTH EXCAVATION			
		2172 CU YD			

Z0028415 GEOTECHNICAL REINFORCEMENT

LOCATION	SQ YD	REMARKS
296+25.56 TO 300+00.00	605.2	
300+00.0 TO 306+00.00	555.2	
306+00.0 TO 309+87.81	543.9	
108+44.31 TO 109+94.84	1487.1	
110+74.27 TO 111+00.00	34.5	
111+00.00 TO 113+87.08	831.5	
TOTAL	4057.4	

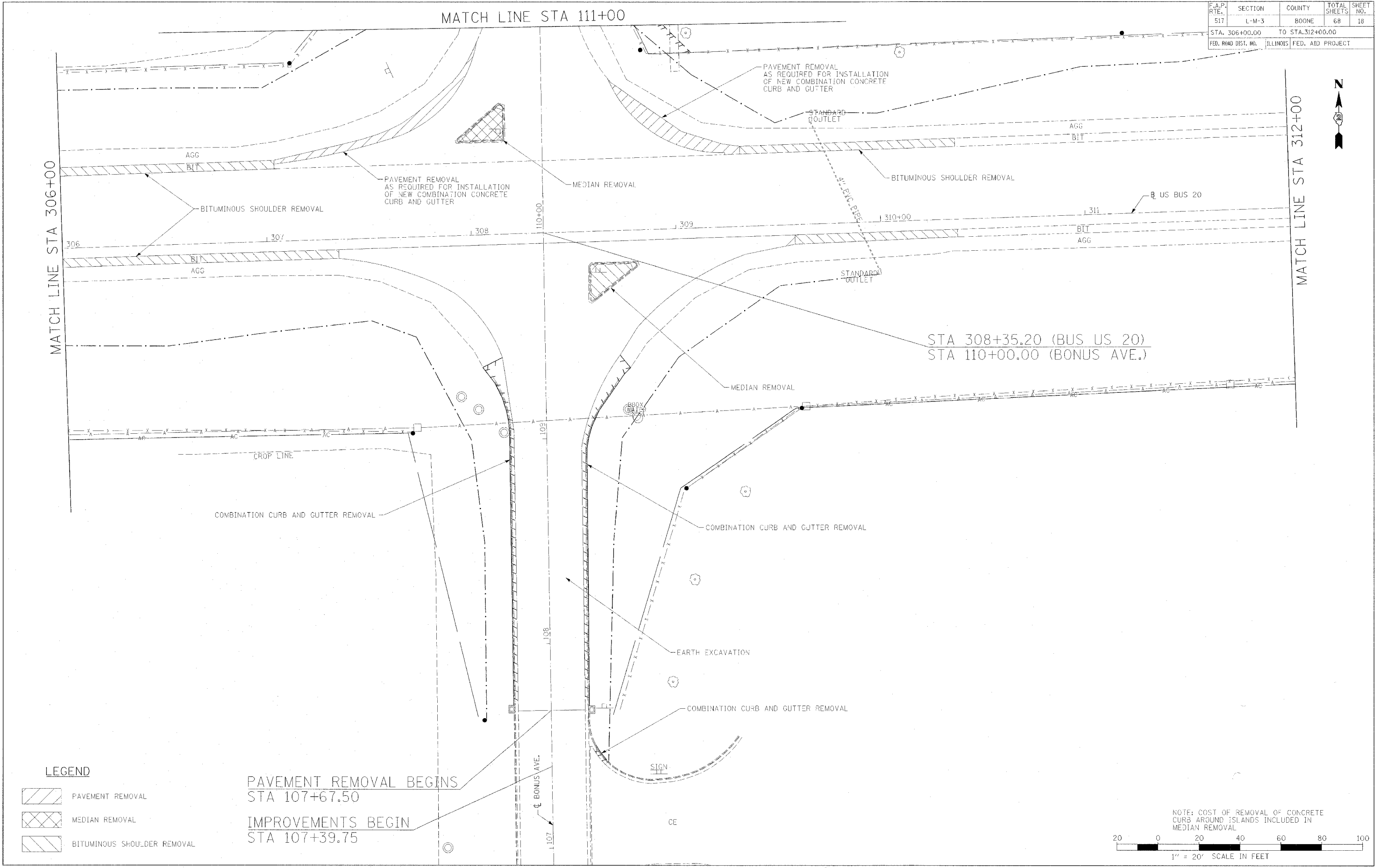
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 REFERENCE = AREP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	18
STA. 306+00.00 TO STA. 312+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

MATCH LINE STA 111+00

MATCH LINE STA 306+00




MATCH LINE STA 312+00



STA 308+35.20 (BUS US 20)
STA 110+00.00 (BONUS AVE.)

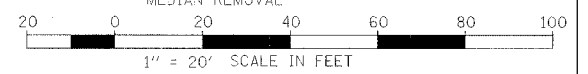
PAVEMENT REMOVAL BEGINS
STA 107+67.50
IMPROVEMENTS BEGIN
STA 107+39.75

LEGEND

-  PAVEMENT REMOVAL
-  MEDIAN REMOVAL
-  BITUMINOUS SHOULDER REMOVAL

PLOT DATE = 8/1/78
PLOT NAME = 64895
PLOT SCALE = AS SHOWN
REFERENCE = REF 1

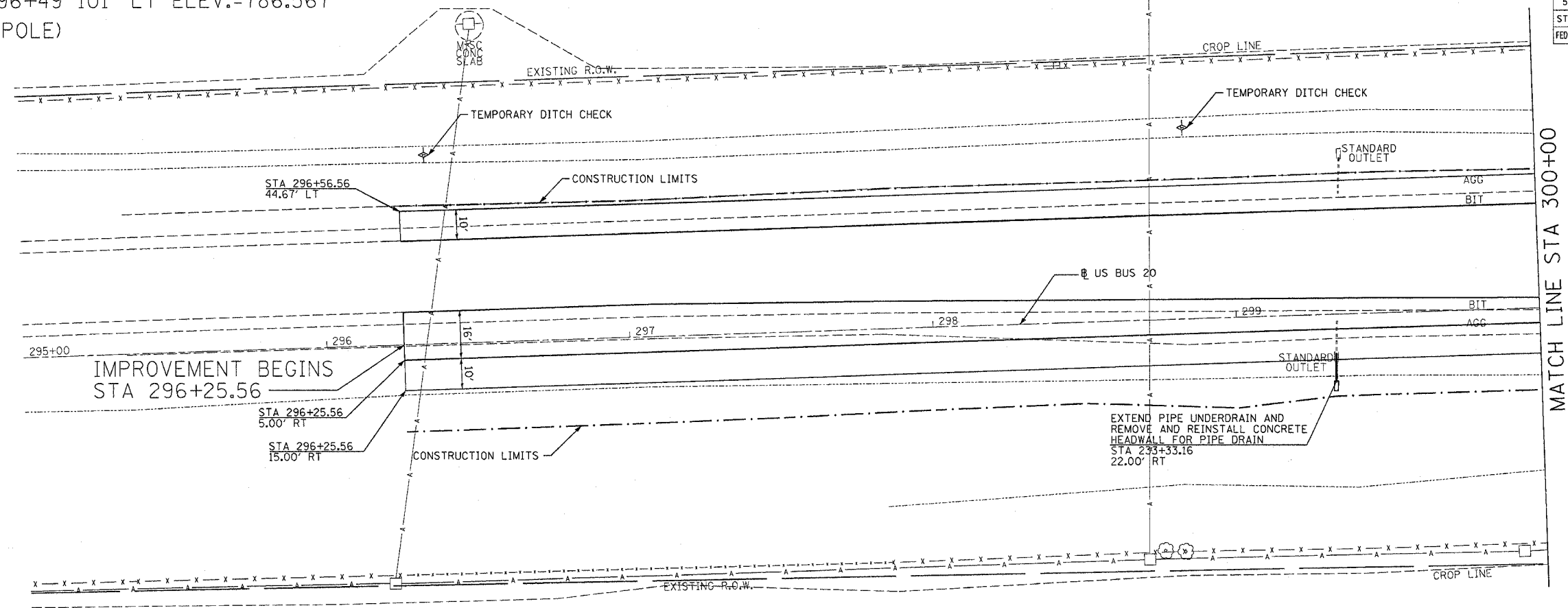
NOTE: COST OF REMOVAL OF CONCRETE CURB AROUND ISLANDS INCLUDED IN MEDIAN REMOVAL



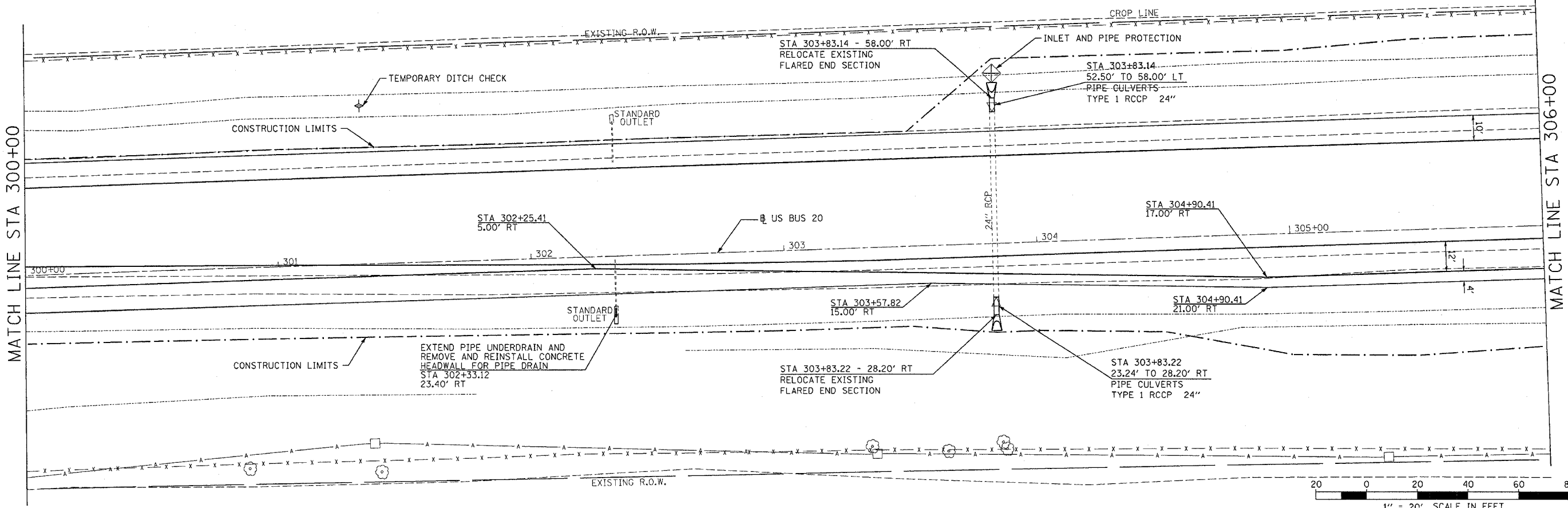
REMOVAL DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	19
STA. 296+25.56		TO STA. 306+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

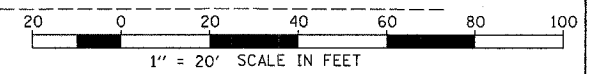
BENCHMARK: STA. 296+49 101' LT ELEV.=786.567
 100.90' LT (POWER POLE)



MATCH LINE STA 300+00

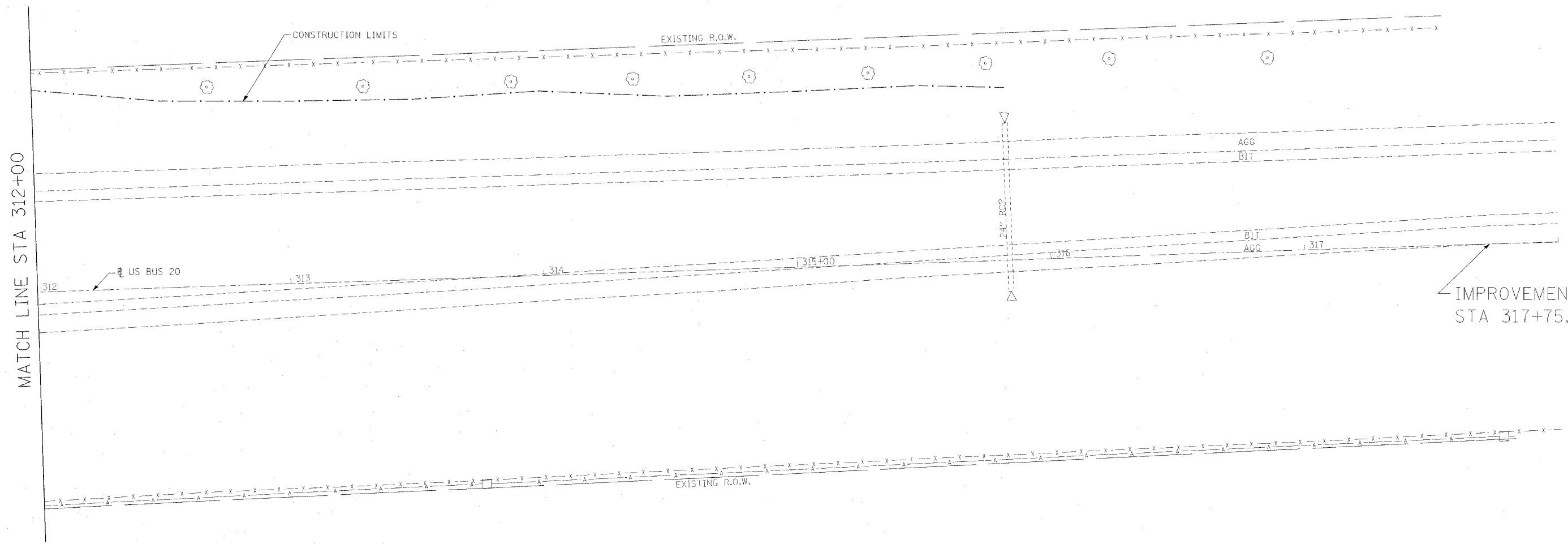


MATCH LINE STA 306+00



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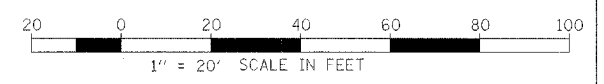
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	21
STA. 312+00.00		TO STA. 317+75.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



MATCH LINE STA 312+00

IMPROVEMENT ENDS
STA 317+75.00

PLOT DATE = *DATE*
 PLOT TIME = *TIME*
 PLOT SCALE = *SCALE*
 REFERENCE = *REF*



CONSTRUCTION DETAILS 3

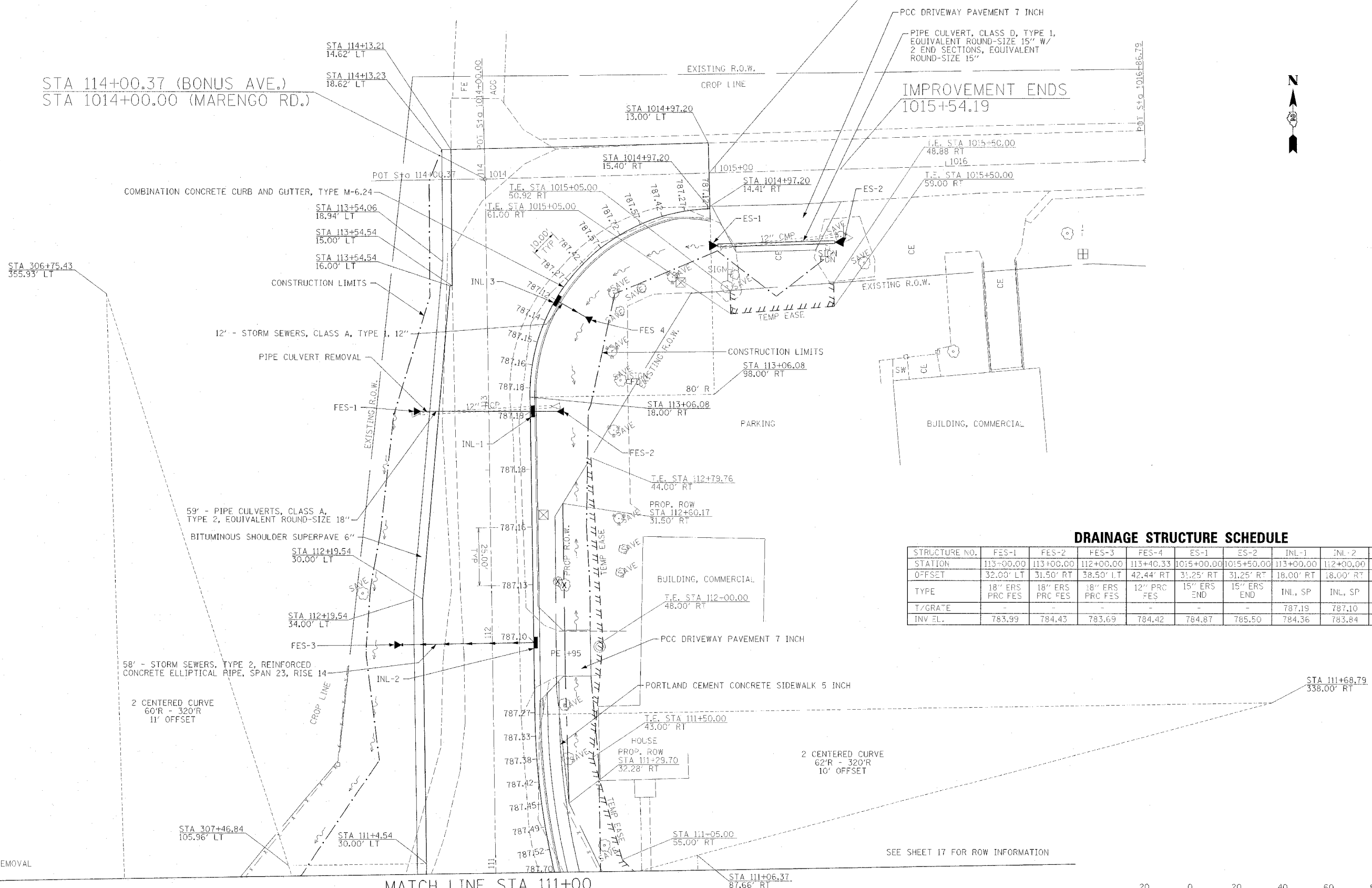
F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S17	L-M-3	BOONE	68	22
STA. 111+11.00 TO STA. 114+13.21				
ILLINOIS FED. AID PROJECT				

STA 114+00.37 (BONUS AVE.)
STA 1014+00.00 (MARENGO RD.)

OVERLAY ENDS
STA 1014+97.20

PCC DRIVEWAY PAVEMENT 7 INCH
PIPE CULVERT, CLASS D, TYPE 1,
EQUIVALENT ROUND-SIZE 15" W/
2 END SECTIONS, EQUIVALENT
ROUND-SIZE 15"

IMPROVEMENT ENDS
1015+54.19



DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	FES-1	FES-2	FES-3	FES-4	ES-1	ES-2	INL-1	INL-2	INL-3
STATION	113+00.00	113+00.00	112+00.00	113+40.33	1015+00.00	1015+50.00	113+00.00	112+00.00	113+47.83
OFFSET	32.00' LT	31.50' RT	38.50' LT	42.44' RT	31.25' RT	31.25' RT	18.00' RT	18.00' RT	29.75' RT
TYPE	18" ERS PRC FES	18" ERS PRC FES	18" ERS PRC FES	12" PRC FES	15" ERS END	15" ERS END	INL, SP	INL, SP	INL, SP
T/GRADE	-	-	-	-	-	-	787.19	787.10	787.12
INV EL.	783.99	784.43	783.69	784.42	784.87	785.50	784.36	783.84	784.51

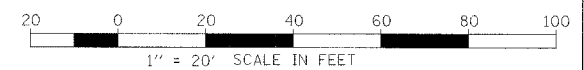
LEGEND

X TREE REMOVAL

DATE: _____
DRAWN BY: _____
CHECKED BY: _____
SCALE: _____
REFERENCE: _____

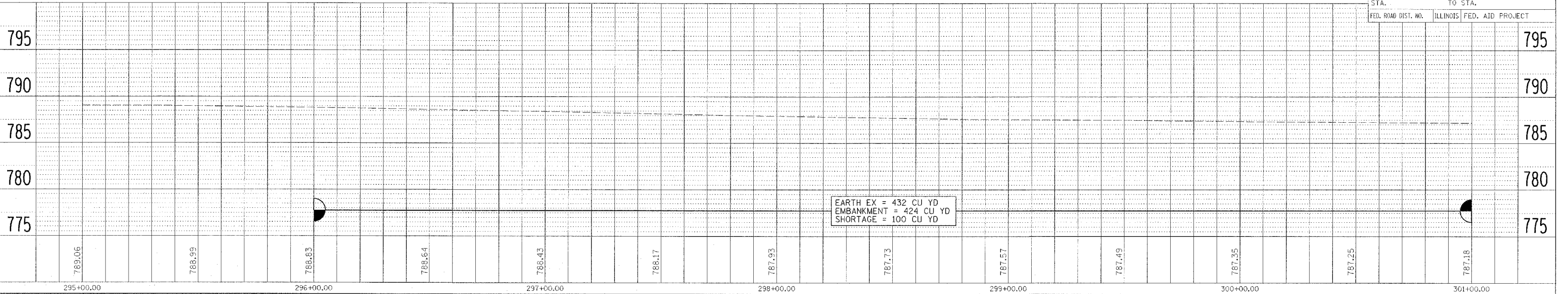
MATCH LINE STA 111+00

SEE SHEET 17 FOR ROW INFORMATION

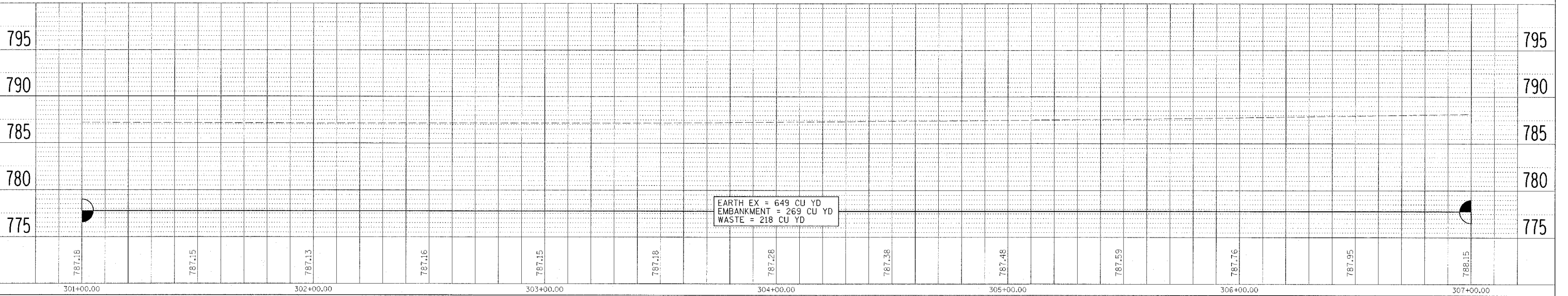


BUSINESS ROUTE 20

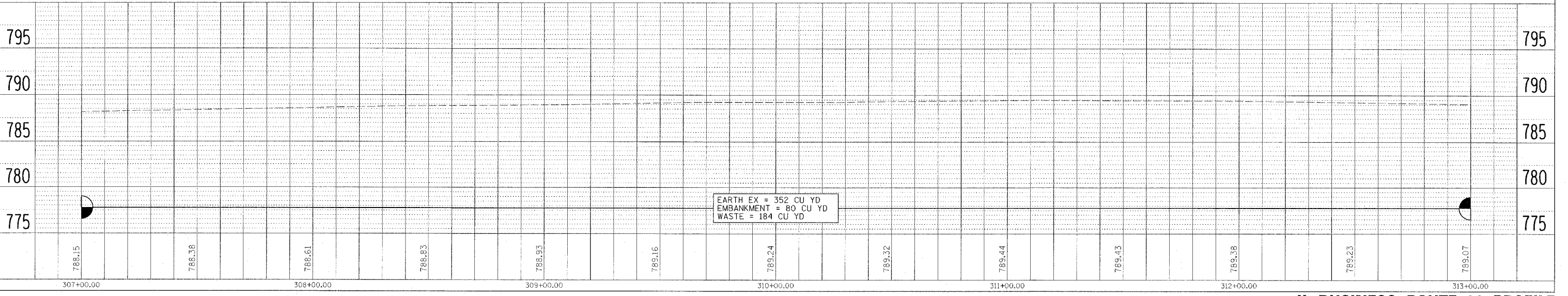
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	63	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



BUSINESS ROUTE 20



BUSINESS ROUTE 20



PLAN
 SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO.
 ATTORNEY RECORD NO.
 F.A.D. FILE NAME

PROFILE
 SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO.
 ATTORNEY RECORD NO.
 STRUCTURE NOTATION CR'D

PLOT DATE = 08/05/05
 FILE NAME = 081115
 PLOT SCALE = 1"=40'
 REFERENCE = 081115

BUSINESS ROUTE 20

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-ML3	BOONE	63	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLAN

DATE: _____ BY: _____

APPROVED: _____

NOTED: _____

NO. _____

PROFILE

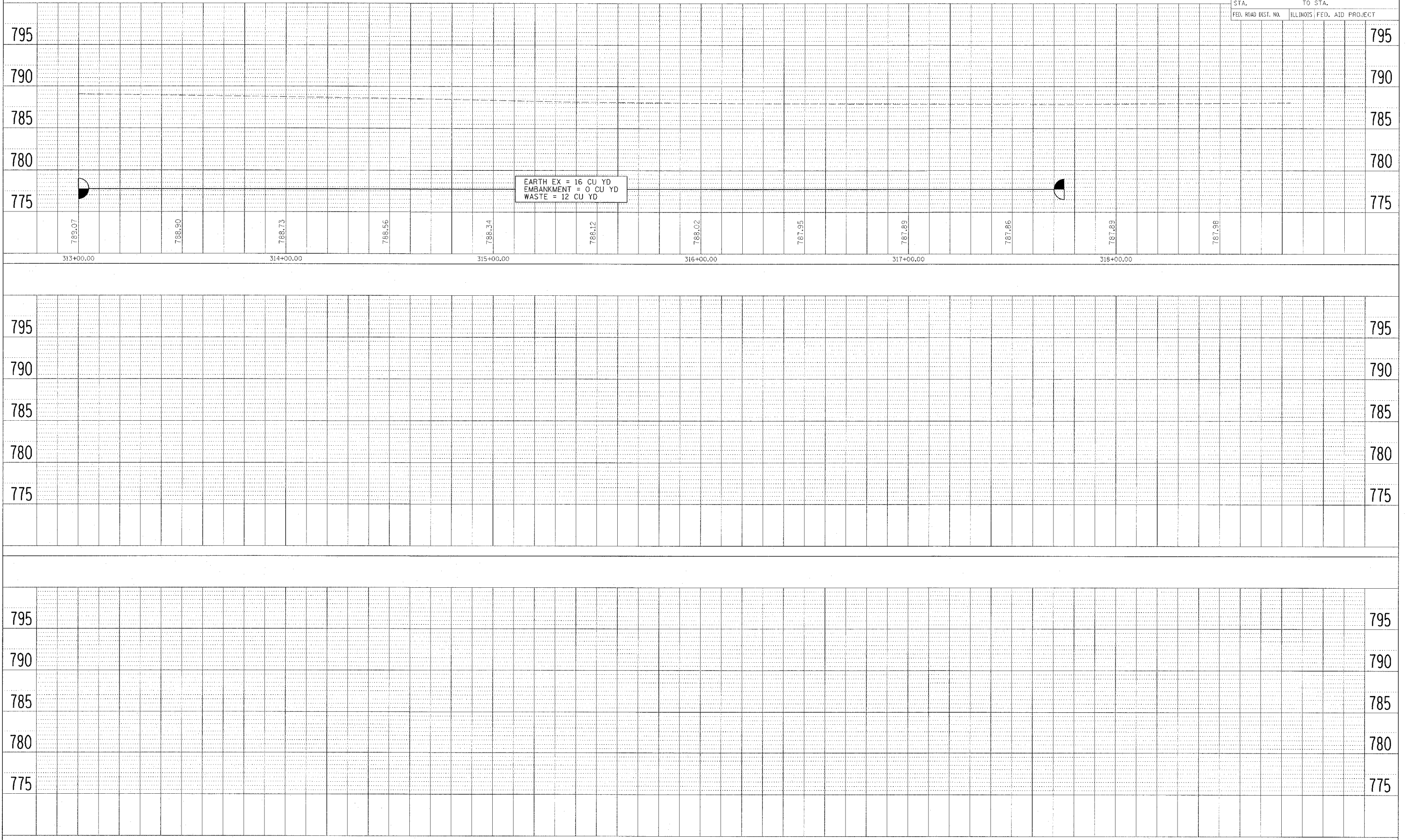
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APPROVED: _____

NOTED: _____

NO. _____

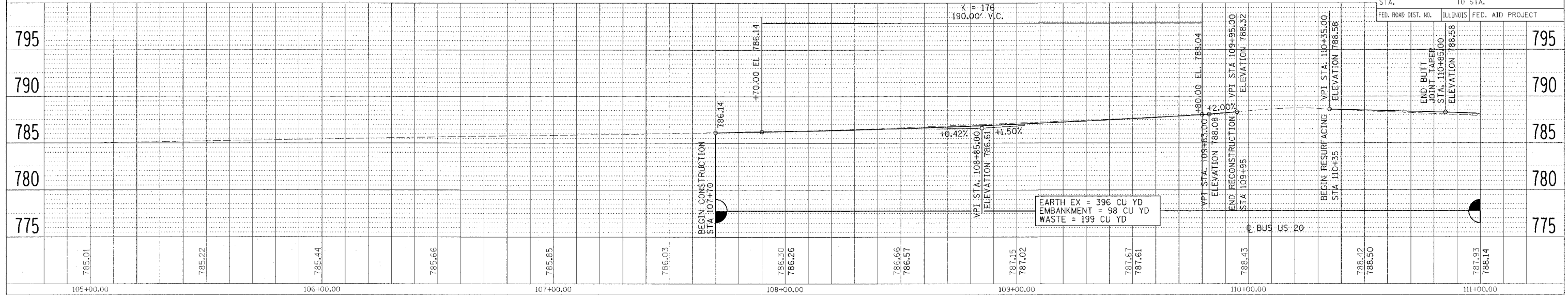
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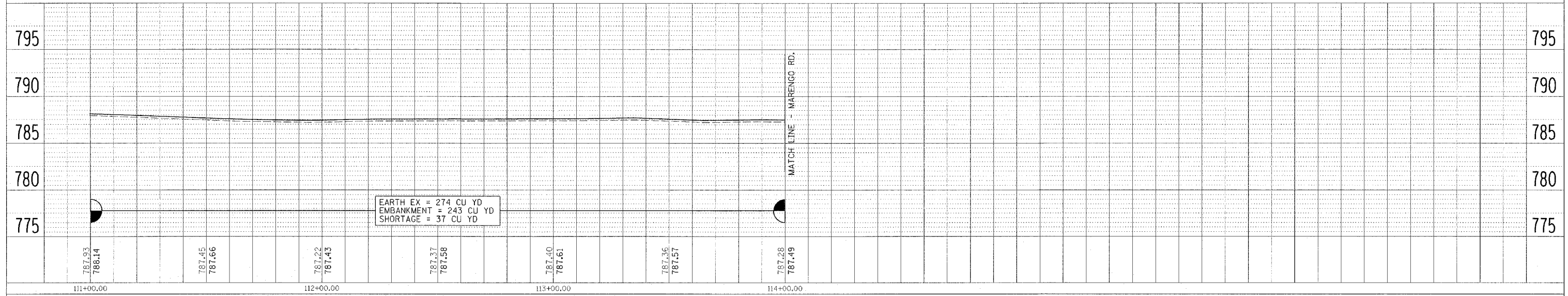
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	63	25

STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

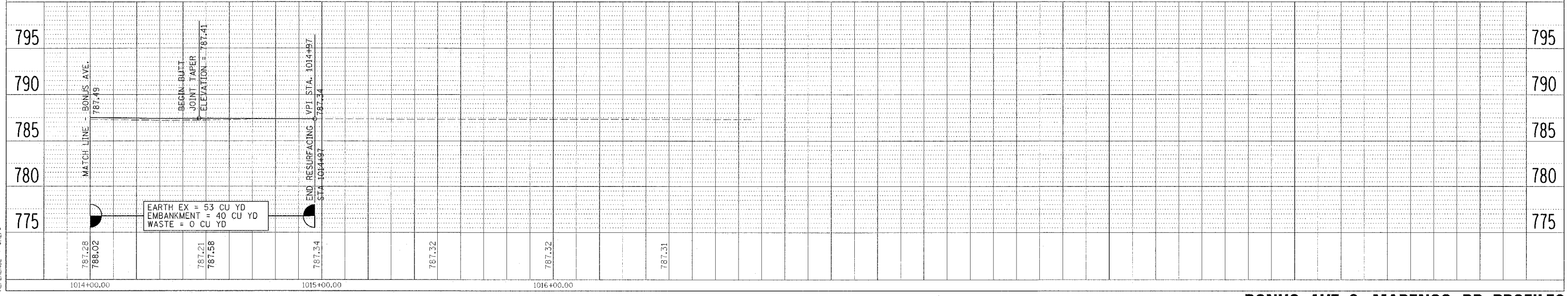
BONUS AVENUE



BONUS AVENUE



MARENGO ROAD



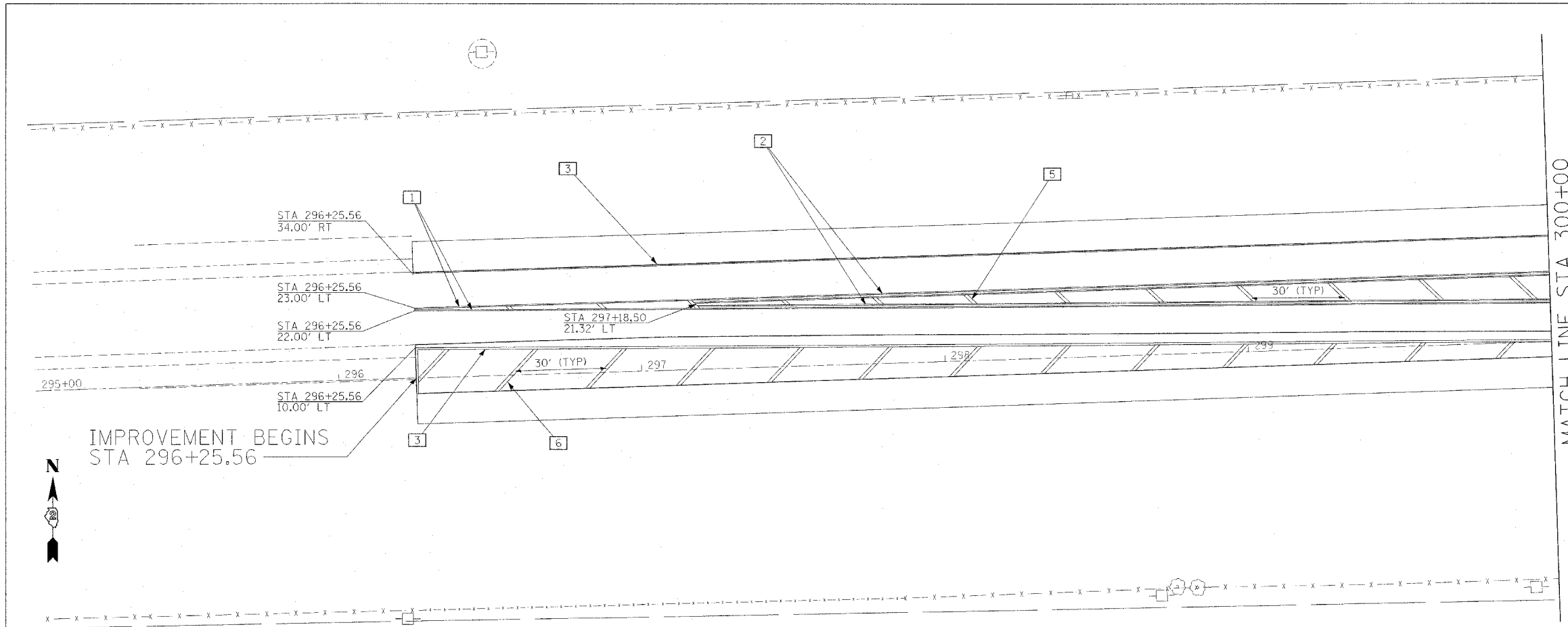
BONUS AVE. & MARENGO RD. PROFILES

PLAN
 SUBMITTED BY
 DATE
 NOTED BY
 NO.

PROFILE
 SUBMITTED BY
 DATE
 NOTED BY
 NO.

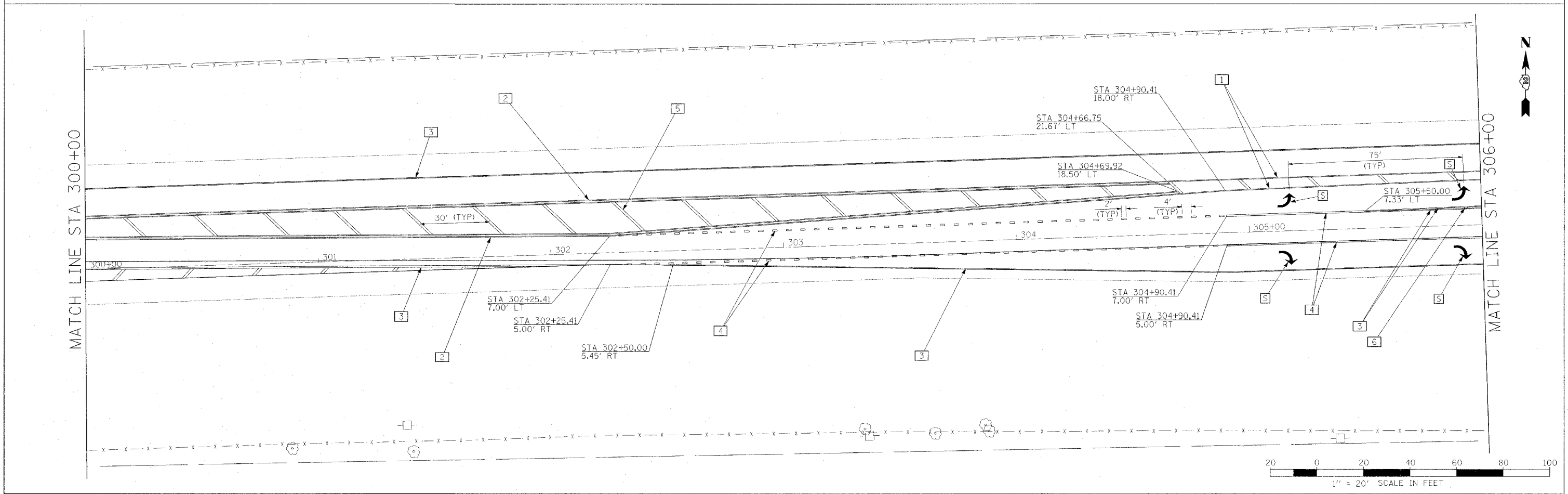
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	26
STA. 296+25.56		TO STA. 306+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

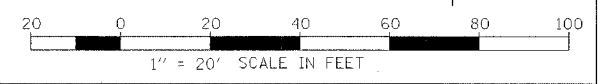


PAVEMENT MARKING LEGEND

5	WHITE POLYUREA TYPE I PAVEMENT MARKING SYMBOL
1	YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 4"
2	DOUBLE YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 4"
3	WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 4"
4	WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 8"
5	YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 12"
6	WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 12"
7	WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 24"

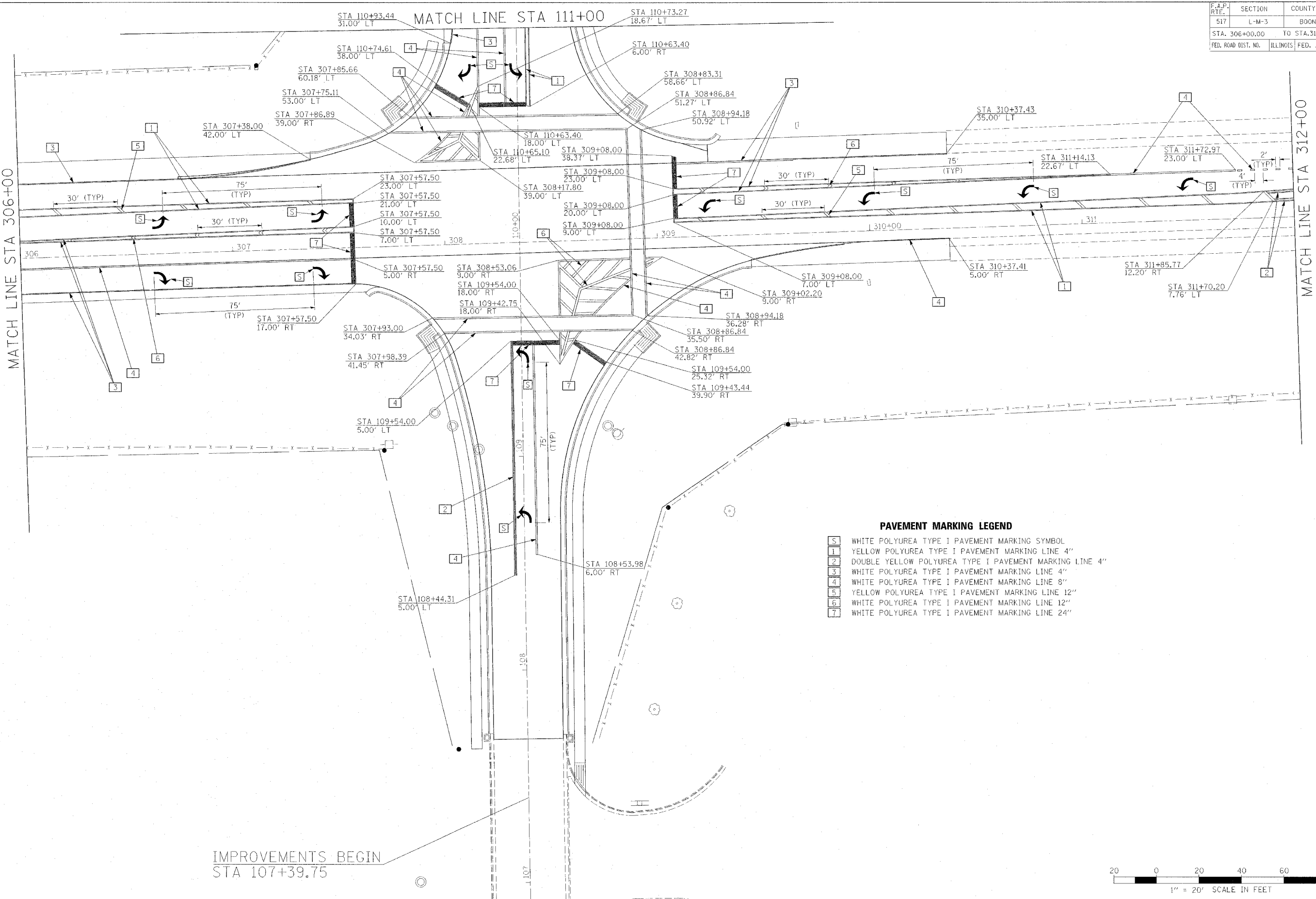


PLOT DATE = 04/15/05
 DATE = 04/15/05
 FILE NAME = 04895.MARK1
 PLOT SCALE = 1/20
 REFERENCE = REF#



PAVEMENT MARKING PLAN 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S17	L-M-3	BOONE	68	27
STA. 306+00.00		TO STA. 312+00.00		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT



MATCH LINE STA 306+00

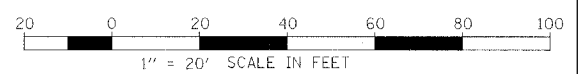
MATCH LINE STA 312+00



PAVEMENT MARKING LEGEND

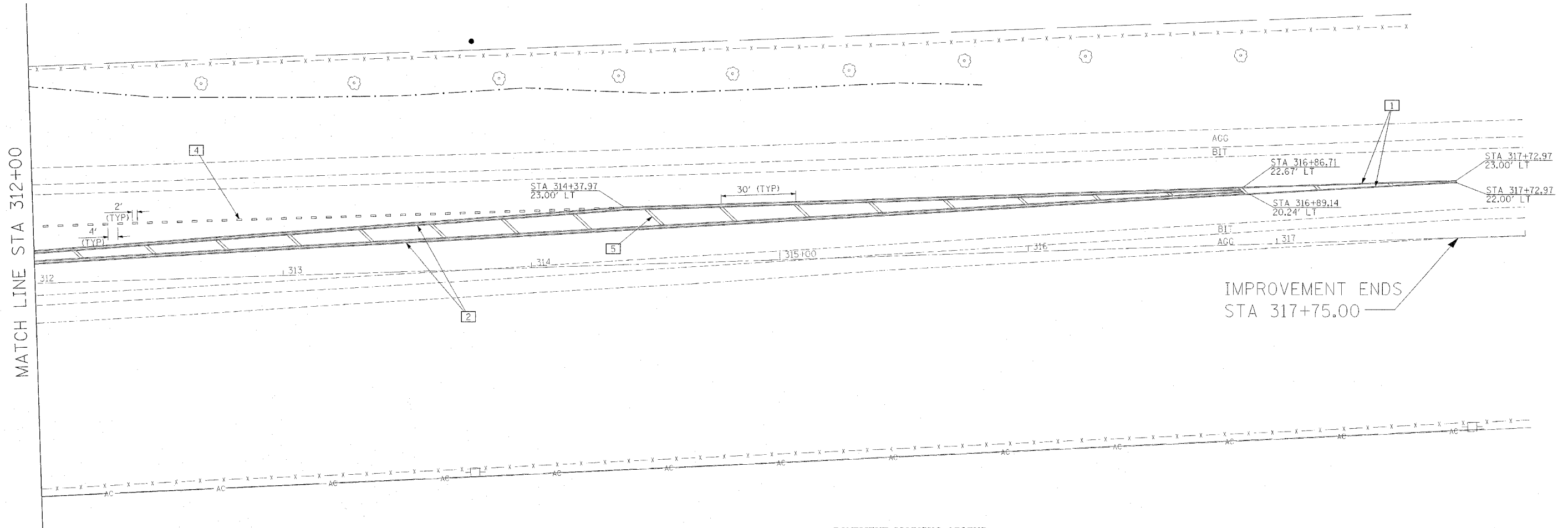
[S]	WHITE POLYUREA TYPE I PAVEMENT MARKING SYMBOL
[1]	YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 4"
[2]	DOUBLE YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 4"
[3]	WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 4"
[4]	WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 8"
[5]	YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 12"
[6]	WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 12"
[7]	WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 24"

IMPROVEMENTS BEGIN
STA 107+39.75



PLOT DATE = 08/15/07
 PLOT NAME = 070107
 PLOT SCALE = 1/4" = 10'
 REFERENCE = 070107

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	28
STA. 312+00.00		TO STA. 317+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



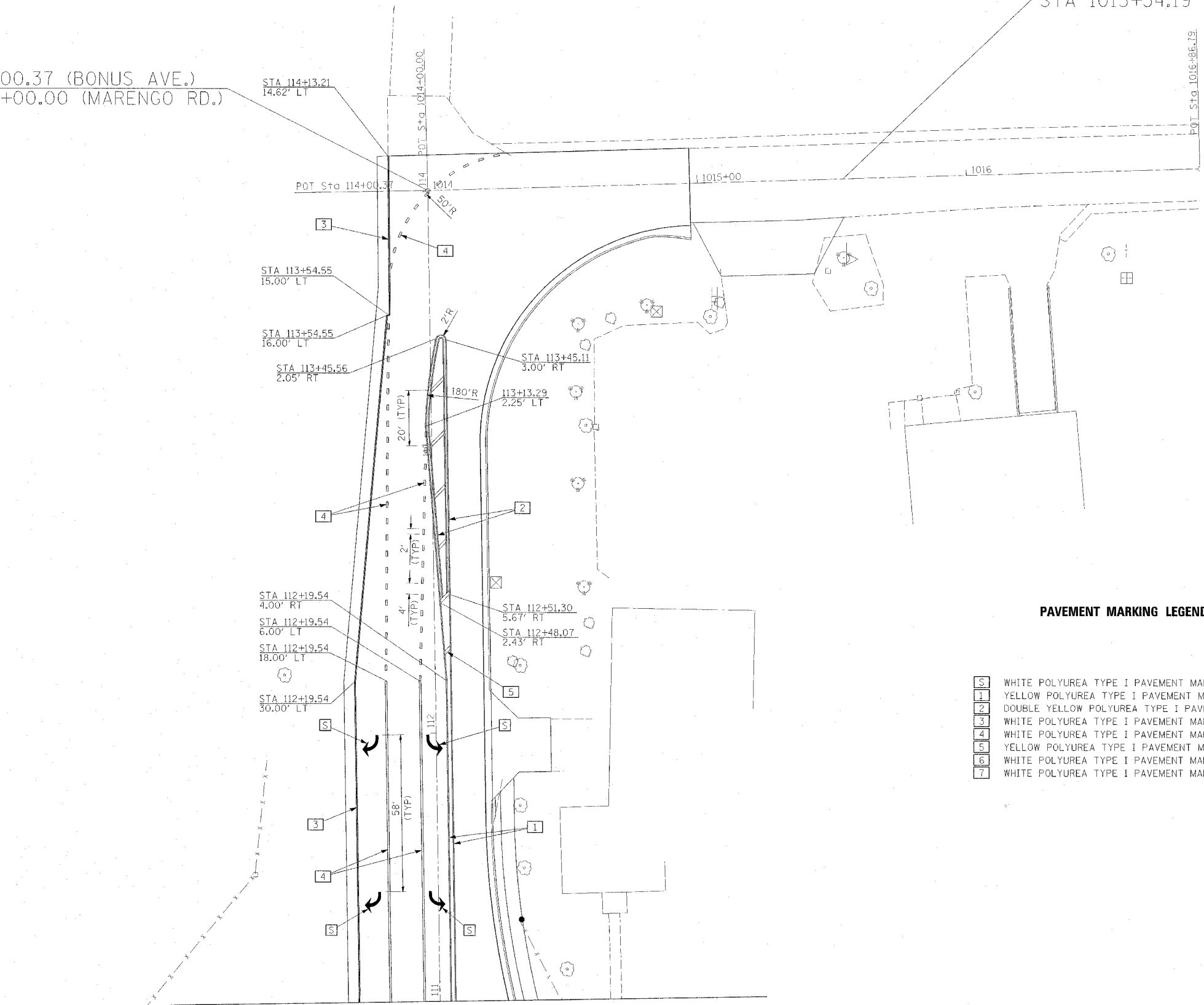
- [S] WHITE POLYUREA TYPE I PAVEMENT MARKING SYMBOL
- [1] YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 4"
- [2] DOUBLE YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 4"
- [3] WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 4"
- [4] WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 8"
- [5] YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 12"
- [6] WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 12"
- [7] WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 24"



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	29
STA. 111+00.00		TO STA. 114+13.21		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STA 114+00.37 (BONUS AVE.)
STA 1014+00.00 (MARENGO RD.)

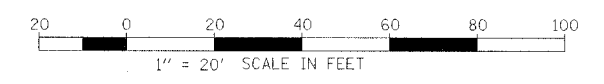
IMPROVEMENT ENDS
STA 1015+54.19



PAVEMENT MARKING LEGEND

- 5 WHITE POLYUREA TYPE I PAVEMENT MARKING SYMBOL
- 1 YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 4"
- 2 DOUBLE YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 4"
- 3 WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 4"
- 4 WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 8"
- 5 YELLOW POLYUREA TYPE I PAVEMENT MARKING LINE 12"
- 6 WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 12"
- 7 WHITE POLYUREA TYPE I PAVEMENT MARKING LINE 24"

MATCH LINE STA 111+00



DATE: 11/14/11
DRAWN BY: J. B. BROWN
CHECKED BY: J. B. BROWN
SCALE: AS SHOWN
REFERENCE: #REF1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	30
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL GENERAL NOTES

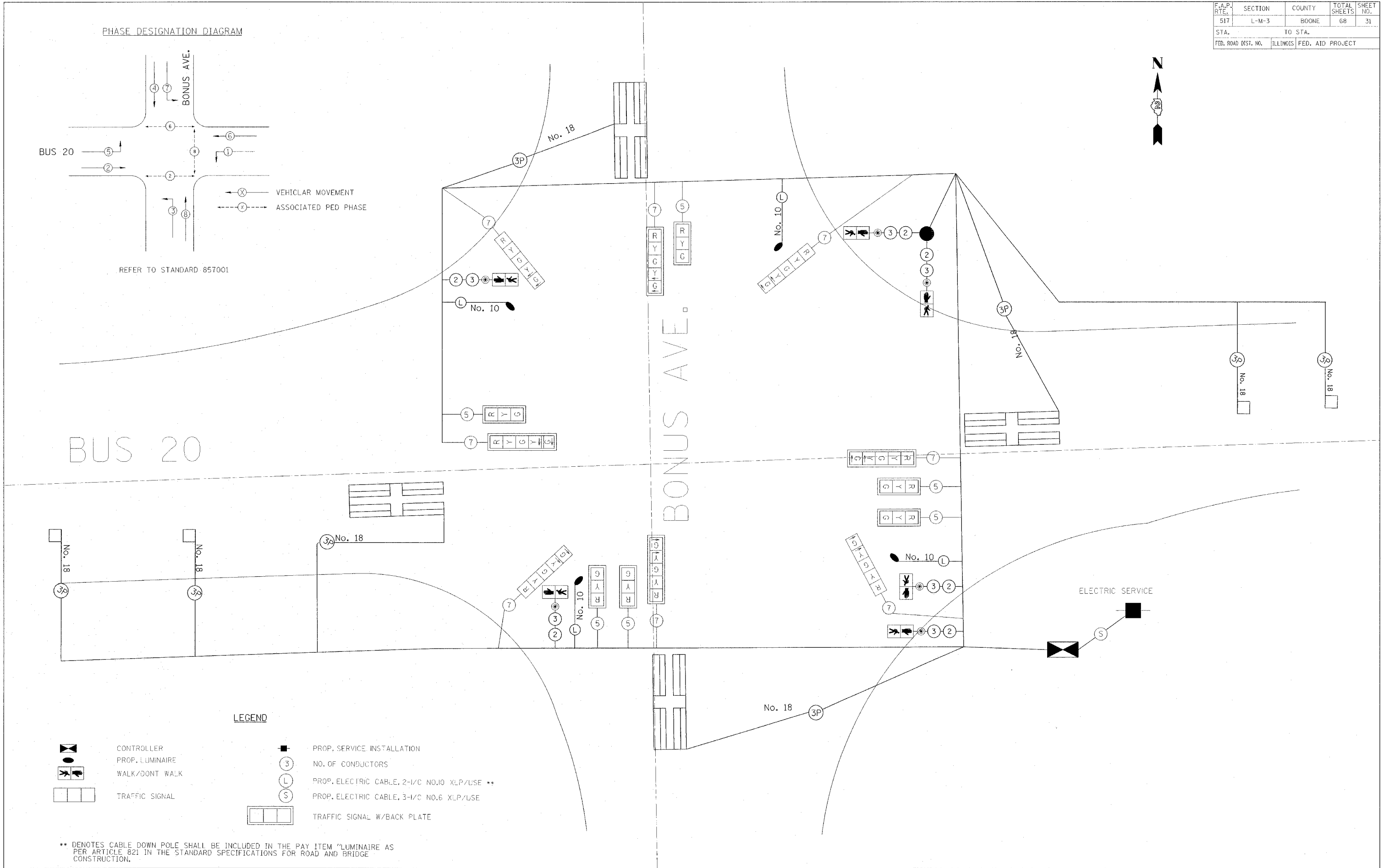
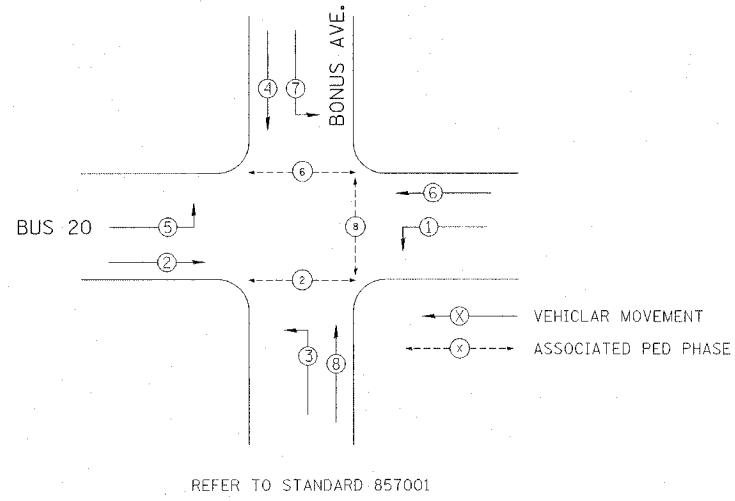
- No work shall be allowed until all necessary components to complete the signal installation have arrived on the job site.
- The exact location of all utilities shall be field verified by the contractor before any work is started.
- The red sections of the signal heads sharing the same mast arm shall be level with one another and maintain a 16' minimum clearance from the highest point of the roadway to the lowest point of the signal heads.
- The mounting height for the luminaires shall be 35'-0" horizontal mounted with a 12' arm.
- The proposed mast arm mounted traffic signal heads shall be mounted directly over the center of their respective lanes, unless indicated otherwise on the plans.
- The handhole shall be constructed so that the top of the frame will be flush with the surface of the median or ground line.
- The traffic signal controller shall be oriented so that the door is facing away from traffic.
- The locations for handholes, mast arm foundations and detector loops are provided for reference only. The engineer of traffic shall be notified for location verification before installation.
- Traffic signal heads shall be properly covered prior to intersection turn-on or as directed by the engineer. This cost shall be included in the cost of the associated signal pay items.
- The contractor is responsible for uncovering or hand digging around utilities as necessary. The cost of this work is to be included in the conduit installed pay item.
- All signal bases shall be located a minimum of 6 feet from the face of curb unless otherwise directed by an engineer.
- Ground rods shall be solid copper alloy or copper clad steel.
- All mast arm pole bases shall be protected by a stainless steel mesh screening around the base bolts to prevent rodent entry. The mesh shall be secured to the base by stainless steel banding as incidental to the individual mast arm assembly pay item.
- The contractor shall contact the local light company prior to beginning work to obtain the utility company requirements for the service installation.
- The light controller shall be mounted to the side of the traffic controller cabinet.
- All traffic signal heads shall be 12 inch polycarbonate with led lenses.

TABULATION OF QUANTITIES			
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
72000100	SIGN PANEL - TYPE I	50 FT	32
80501000	SERVICE INSTALLATION, (SPECIAL)	EACH	1
81400400	CONCRETE HANDHOLE	EACH	7
81400600	CONCRETE DOUBLE HANDHOLE	EACH	1
81702110	ELECTRIC CABLE IN CONDUIT, 600 V (XLP-TYPE USE) 1/C NO. 10	FOOT	615
81702130	ELECTRIC CABLE IN CONDUIT, 600 V (XLP-TYPE USE) 1/C NO. 6	FOOT	59
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4
82500605	LIGHTING CONTROLLER PHOTOCELL RELAY	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	827
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	866
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1156
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1564
87301515	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	3908
87601200	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	1
87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
87702990	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6.0
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	58.0
88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	10
88500100	INDUCTIVE LOOP DETECTOR	EACH	12
88600100	DETECTOR LOOP, TYPE I	FOOT	1960
88800100	PEDESTRIAN PUSH-BUTTON	EACH	6
X0324885	CONDUIT INSTALLED 1", NON-METALLIC	FOOT	1485
X0324887	CONDUIT INSTALLED 2 1/2", NON-METALLIC	FOOT	105
X0324888	CONDUIT INSTALLED 4", NON-METALLIC	FOOT	363
X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
X8801395	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
X8801400	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
X8810395	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	6
XX002182	STREET NAME SIGN MAST ARM MOUNT	EACH	4

PLOT DATE = Mon Oct 24 15:25:17 2005
 FILE NAME = P:\MURDER STUTZ\Projects\Work D-cdr *5105 20 BR & Bonus Avo\12-02-04-8-03\Final From Consultant\204803PROP-310-DVT.dgn
 PLOT SCALE = 28.0000 / IN.
 REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PHASE DESIGNATION DIAGRAM



LEGEND









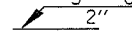


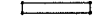
- CONTROLLER
- PROP. LUMINAIRE
- WALK/DONT WALK
- TRAFFIC SIGNAL
- PROP. SERVICE INSTALLATION
- NO. OF CONDUCTORS
- PROP. ELECTRIC CABLE, 2-1/2 NO.10 XLP/USE **
- PROP. ELECTRIC CABLE, 3-1/2 NO.6 XLP/USE
- TRAFFIC SIGNAL W/BACK PLATE

** DENOTES CABLE DOWN POLE SHALL BE INCLUDED IN THE PAY ITEM "LUMINAIRE AS PER ARTICLE 821 IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

TRAFFIC SIGNAL CABLE PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	32
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

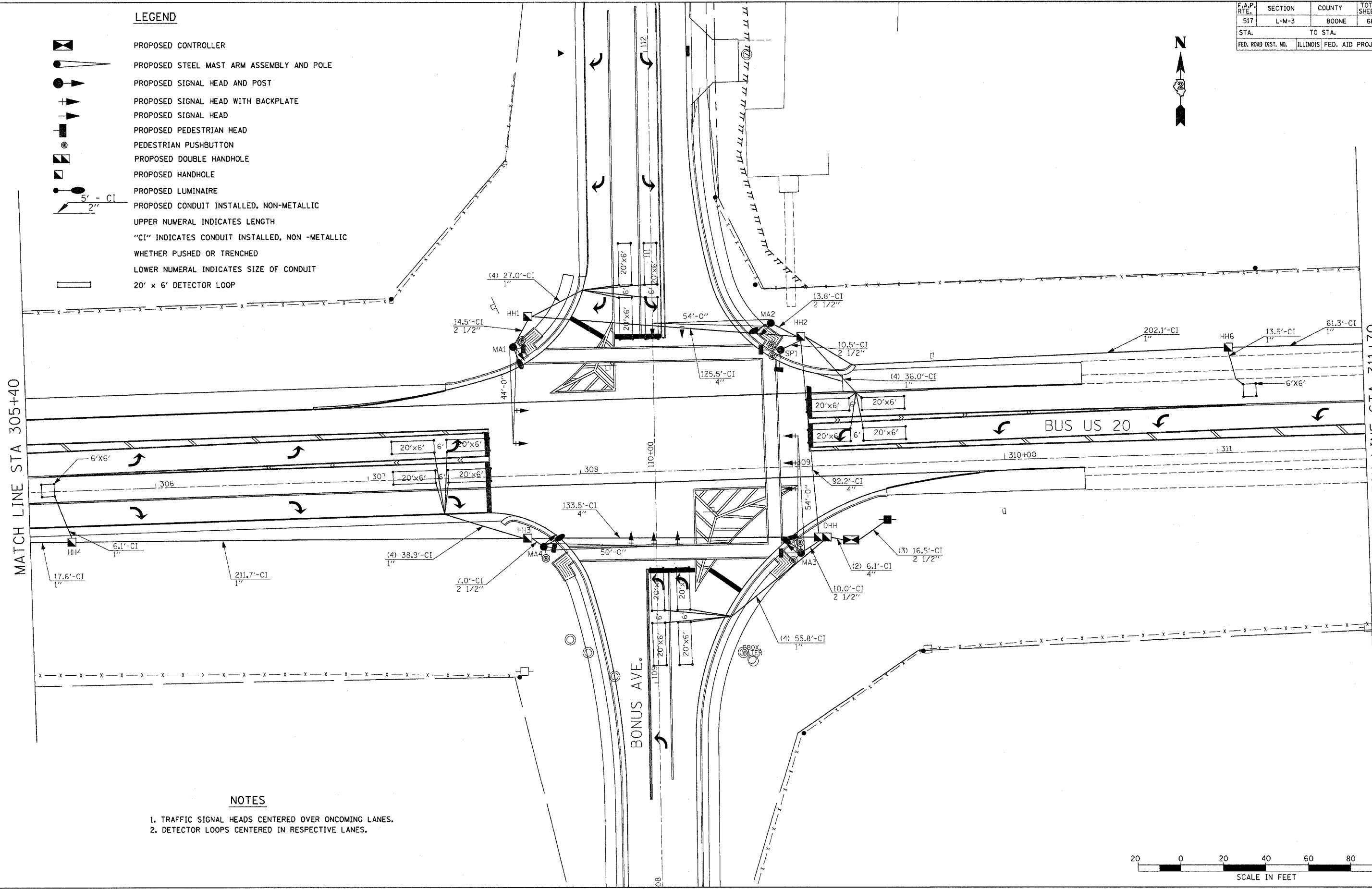
LEGEND

-  PROPOSED CONTROLLER
-  PROPOSED STEEL MAST ARM ASSEMBLY AND POLE
-  PROPOSED SIGNAL HEAD AND POST
-  PROPOSED SIGNAL HEAD WITH BACKPLATE
-  PROPOSED SIGNAL HEAD
-  PROPOSED PEDESTRIAN HEAD
-  PEDESTRIAN PUSHBUTTON
-  PROPOSED DOUBLE HANDHOLE
-  PROPOSED HANDHOLE
-  PROPOSED LUMINAIRE
-  PROPOSED CONDUIT INSTALLED, NON-METALLIC
- UPPER NUMERAL INDICATES LENGTH
- "CI" INDICATES CONDUIT INSTALLED, NON-METALLIC
- WHETHER PUSHED OR TRENCHED
- LOWER NUMERAL INDICATES SIZE OF CONDUIT
-  20' x 6' DETECTOR LOOP



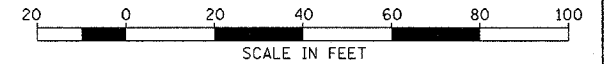
MATCH LINE STA 305+40

MATCH LINE STA 311+70



NOTES

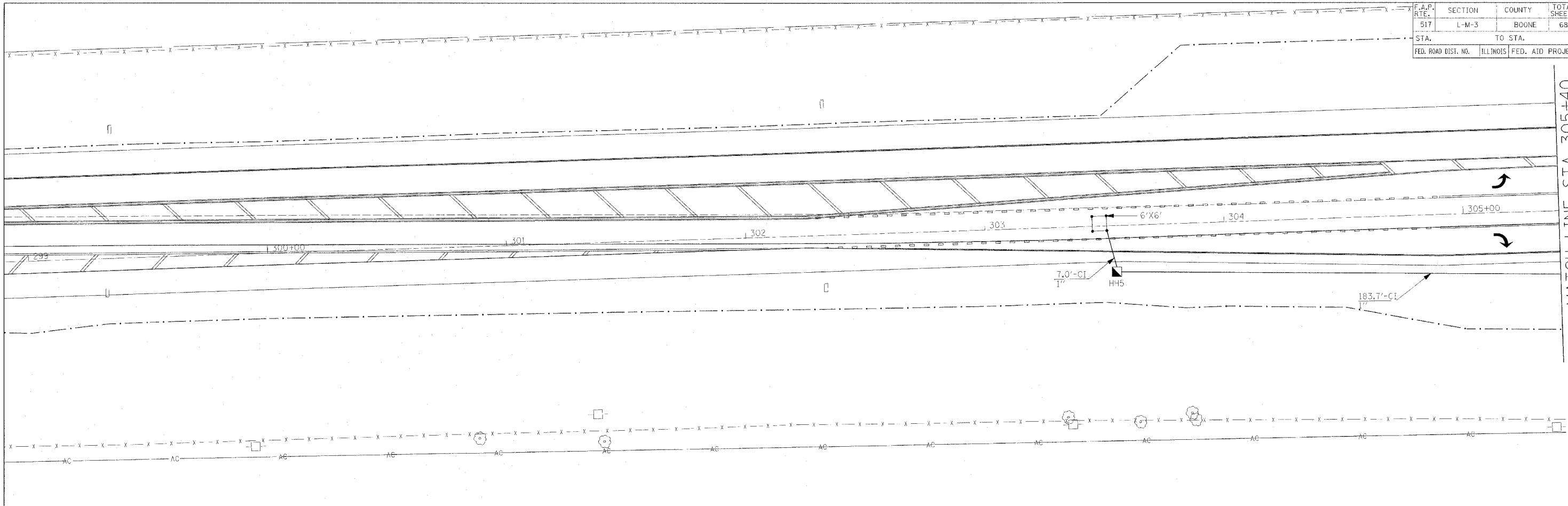
1. TRAFFIC SIGNAL HEADS CENTERED OVER ONCOMING LANES.
2. DETECTOR LOOPS CENTERED IN RESPECTIVE LANES.



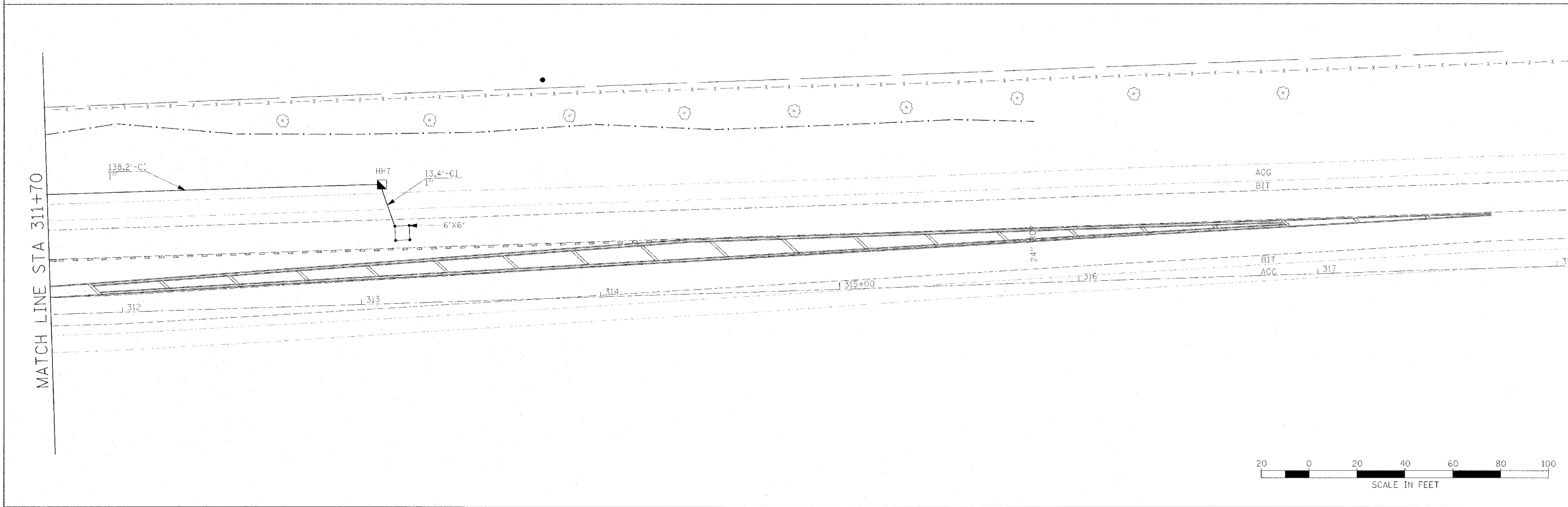
PROPOSED TRAFFIC SIGNALS 1

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 REFERENCE = REF#

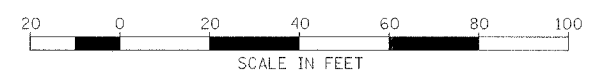
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517	L-M-3	BOONE	68	33
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



MATCH LINE STA 305+40



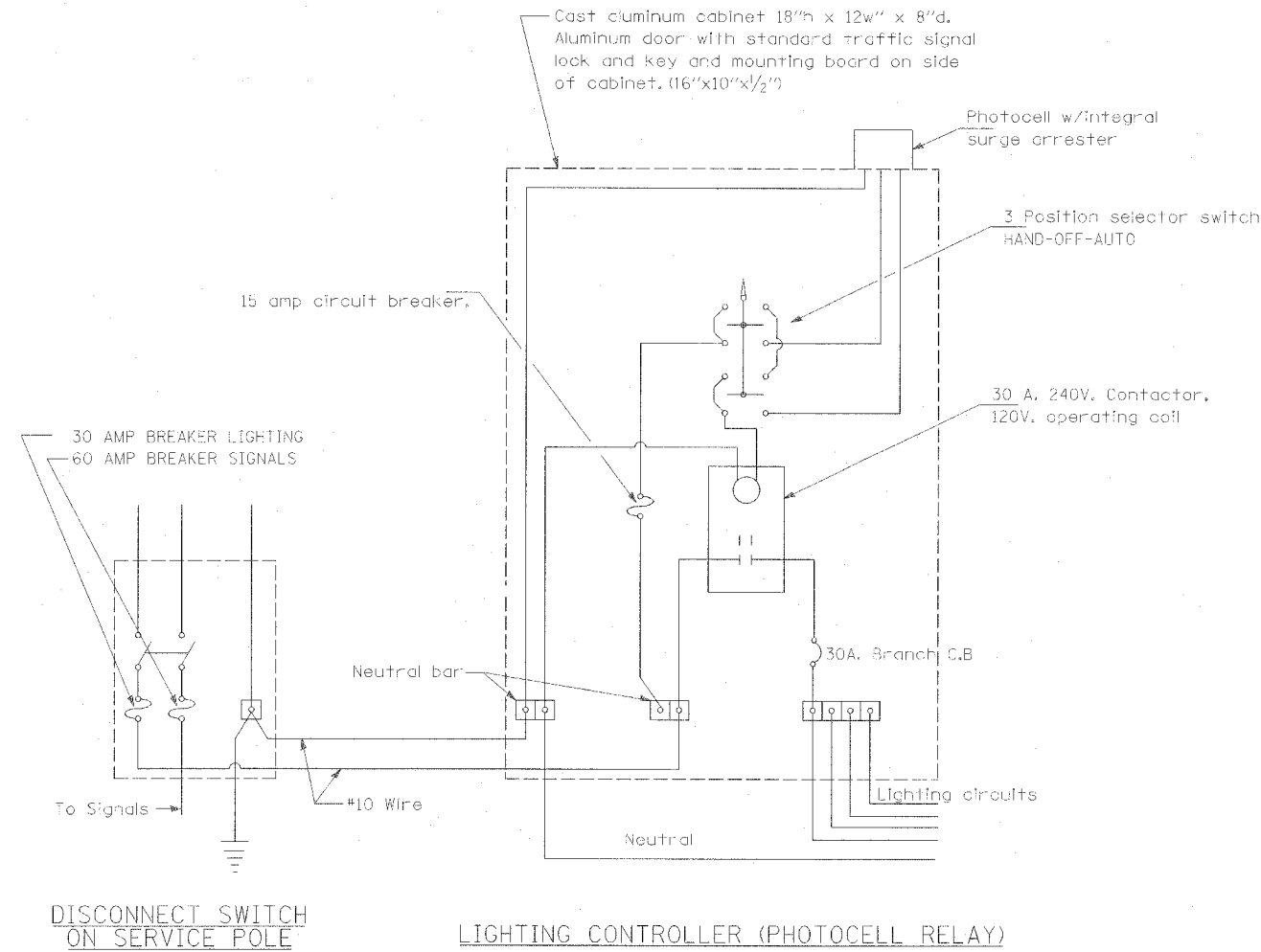
MATCH LINE STA 311+70



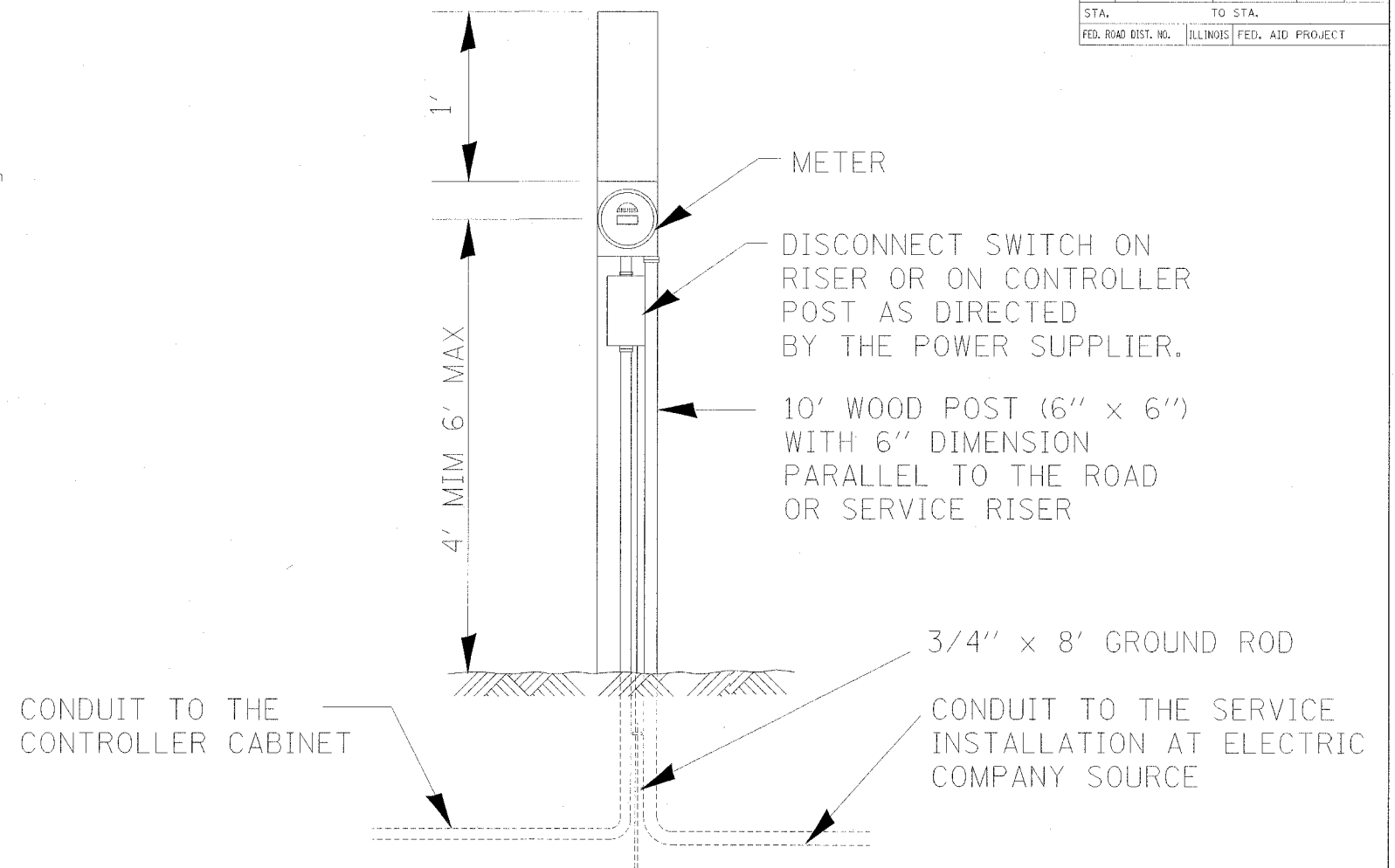
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PROPOSED TRAFFIC SIGNALS 2

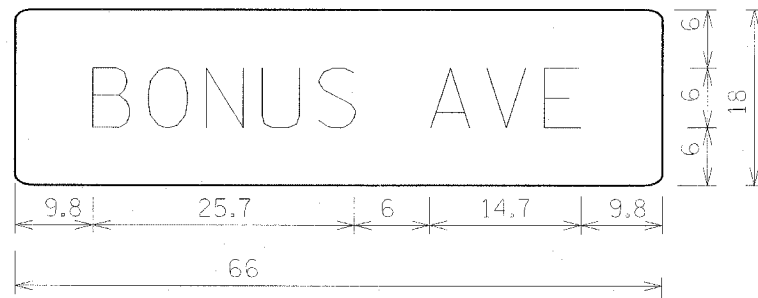
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	34
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ELECTRIC SERVICE INSTALLATION, SPECIAL
(SEE SPECIAL PROVISIONS)

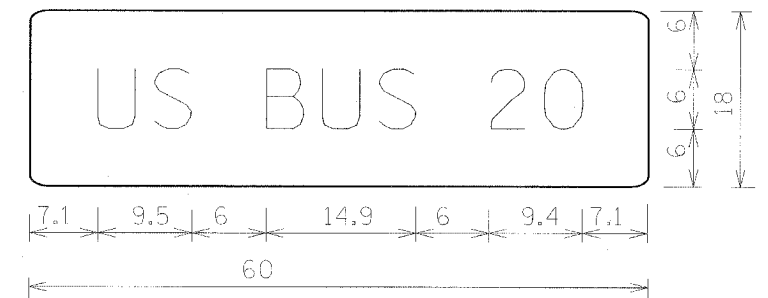


NOTE: DETAIL ONLY SHOW GENERAL SERVICE WHICH VARIES BY PROVIDERS



1.5" Radius, 0.5" Border, 0.4" Indent, White on Green;
[BONUS AVE] D;
Table of letter and object lefts

B	O	N	U	S	A	V	E
9.8	15.0	20.6	26.0	31.5	41.5	46.9	52.5



1.5" Radius, 0.5" Border, 0.4" Indent, White on Green;
[US BUS 20] D;
Table of letter and object lefts

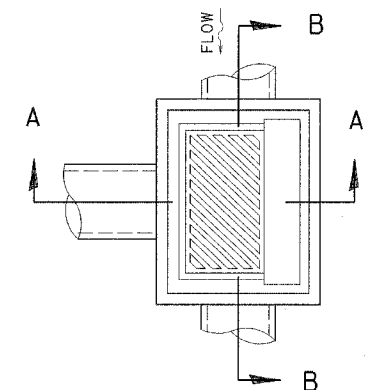
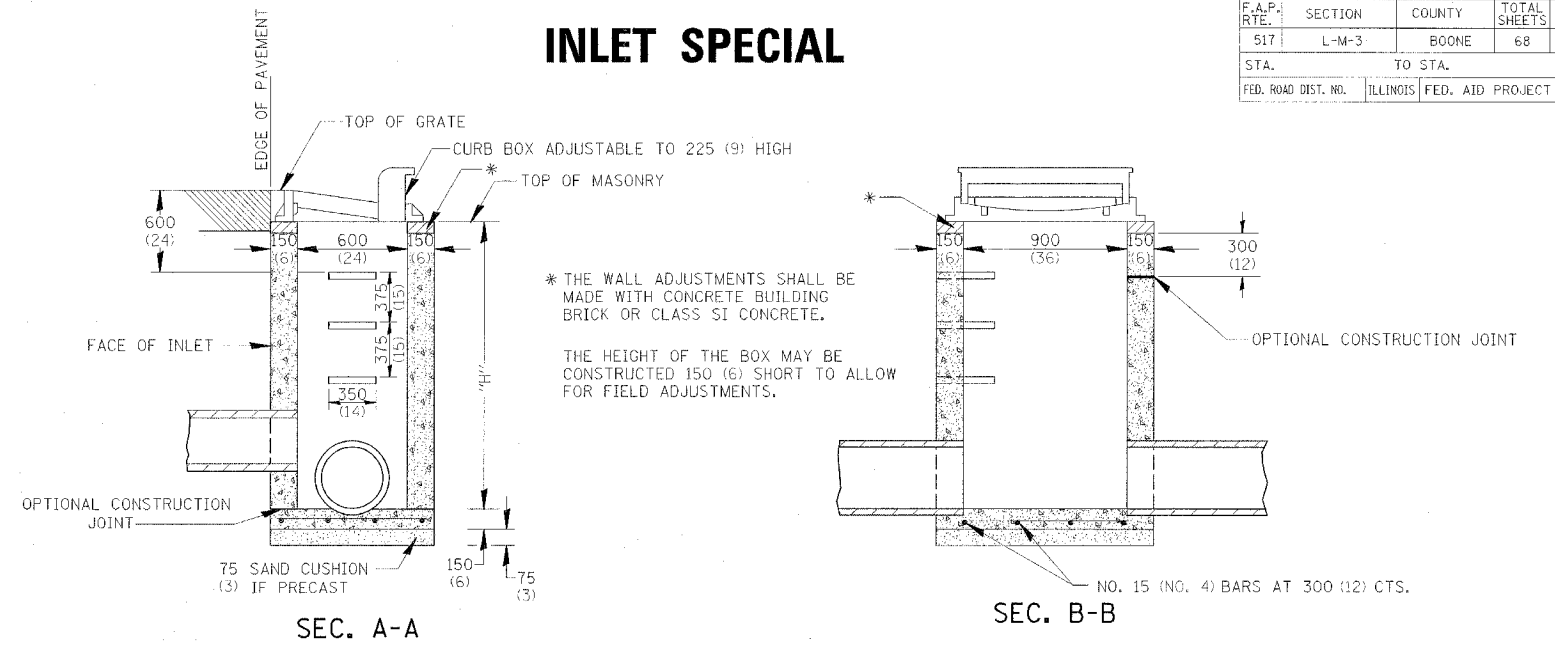
U	S	B	U	S	2	0
7.1	12.6	22.6	28.0	33.5	43.5	48.7

NOTE: ALL UNITS IN INCHES UNLESS SPECIFIED.

SIGN PANEL DETAILS
(PER STANDARD 720016-01 STYLE e)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	35
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

INLET SPECIAL



DETAIL OF FRAME & GRATE

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

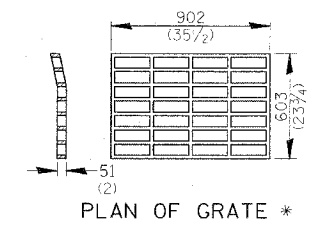
ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 240 kg (530 lbs.) ± . STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 1.5 m (5 ft).

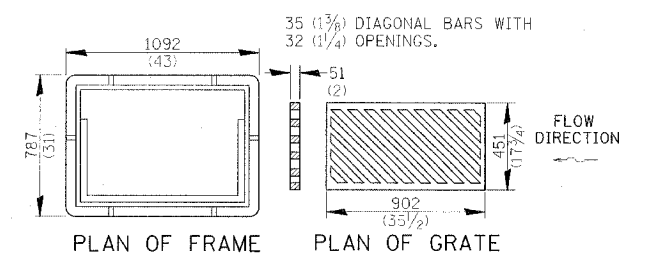
NOTES

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 27.5 MPa (4,000 psi) AFTER 28 DAYS.

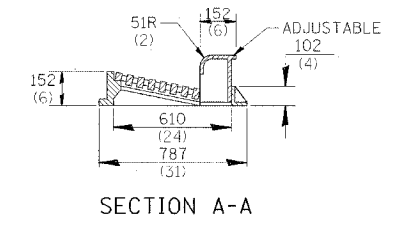
THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.



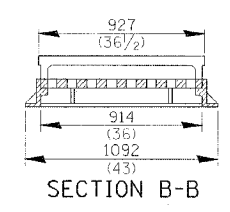
PLAN OF GRATE *



PLAN OF FRAME PLAN OF GRATE



SECTION A-A



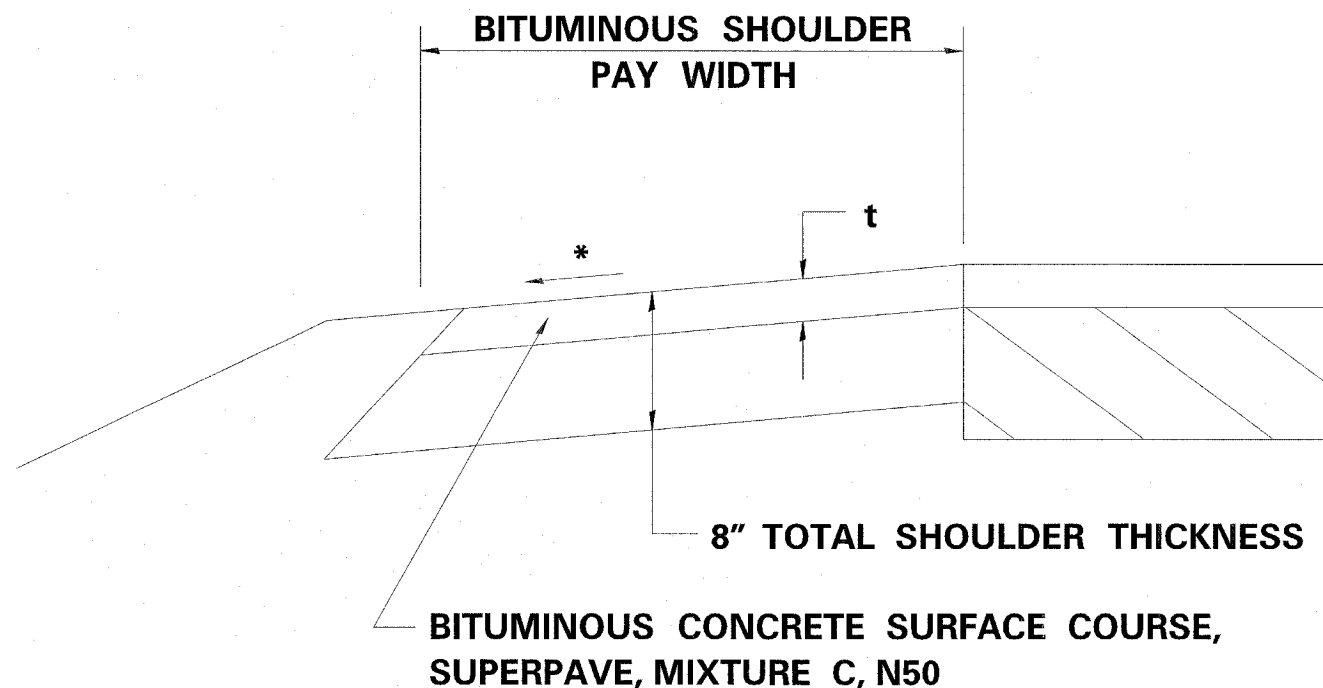
SECTION B-B

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

PLLOT DATE = #DATE#
FILE NAME = #FILE#
PLLOT SCALE = #SCALE#
REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	36
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BITUMINOUS SHOULDER



BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50

t = SEE TYPICAL SECTIONS FOR THICKNESS

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

GENERAL NOTES

THE BITUMINOUS SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50, AND SQUARE YARD FOR BITUMINOUS SHOULDERS SUPERPAVE OF THE THICKNESS SPECIFIED.

USE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50, WHEN RESURFACING EXISTING BITUMINOUS SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE BITUMINOUS SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

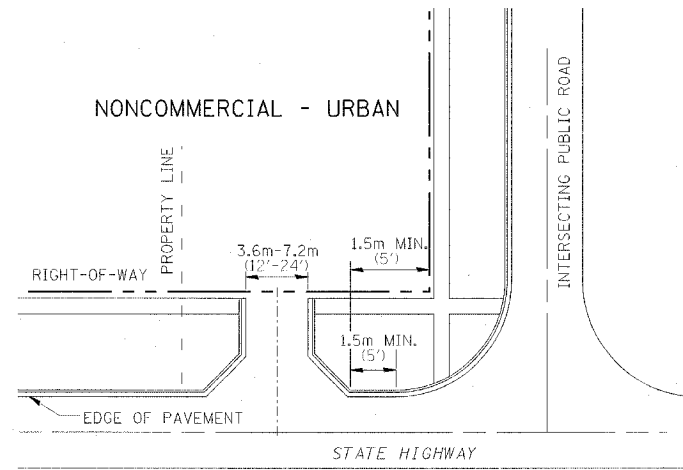
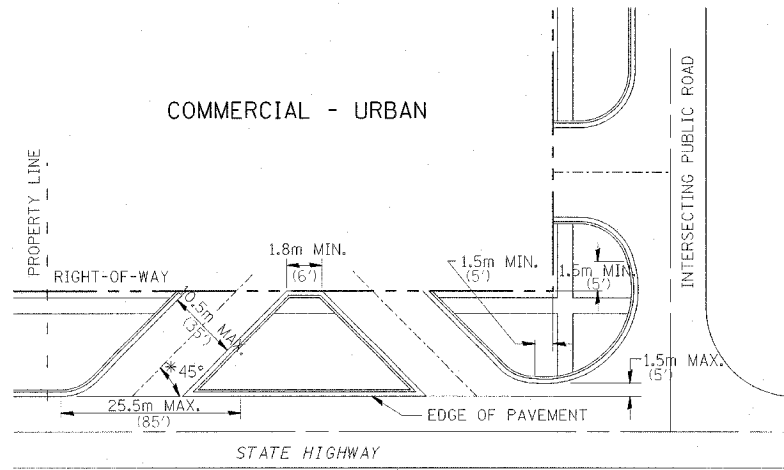
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

PLT DATE = 10/13/2005
 PLT NAME = 23.4a
 PLT SCALE = AS SHOWN
 REFERENCE = #REF#

F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517 L-M-3	BOONE	68	37
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

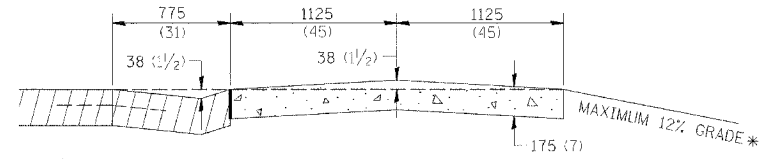
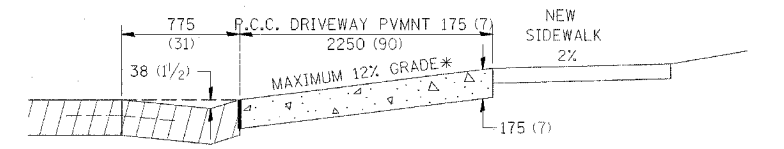
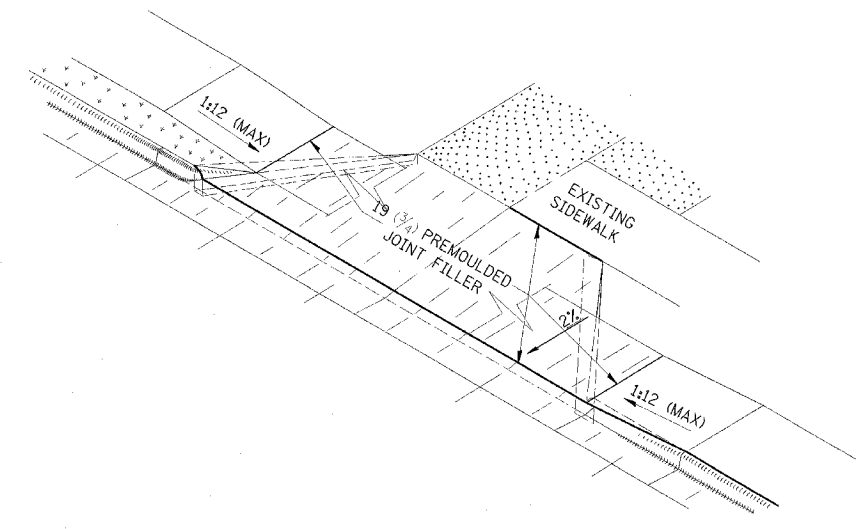
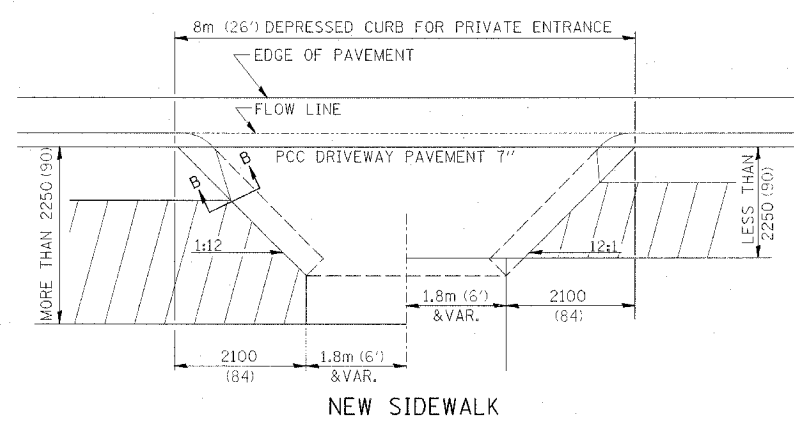
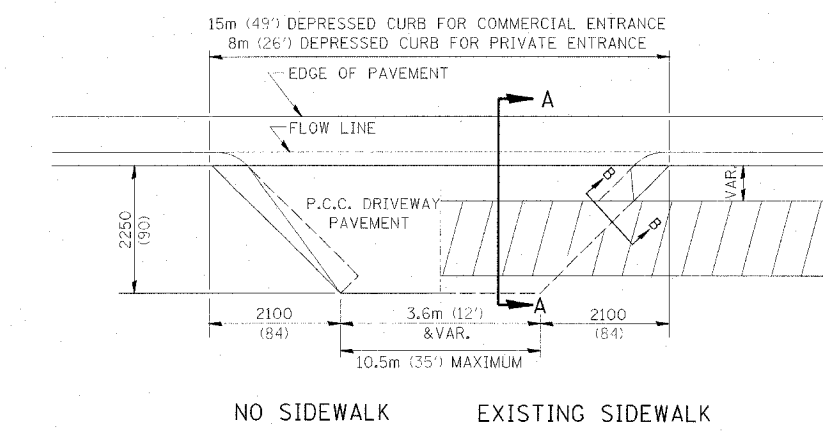
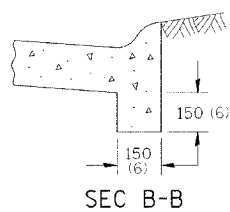
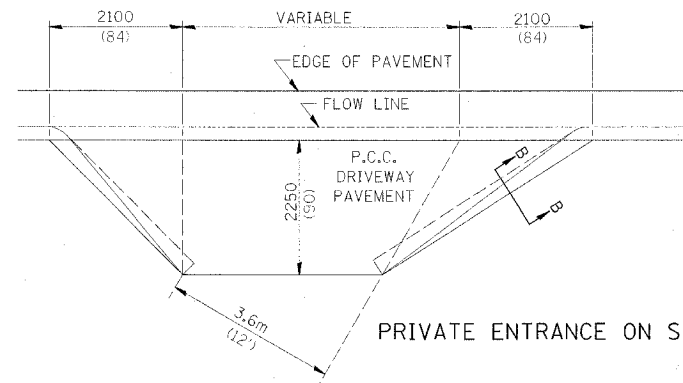
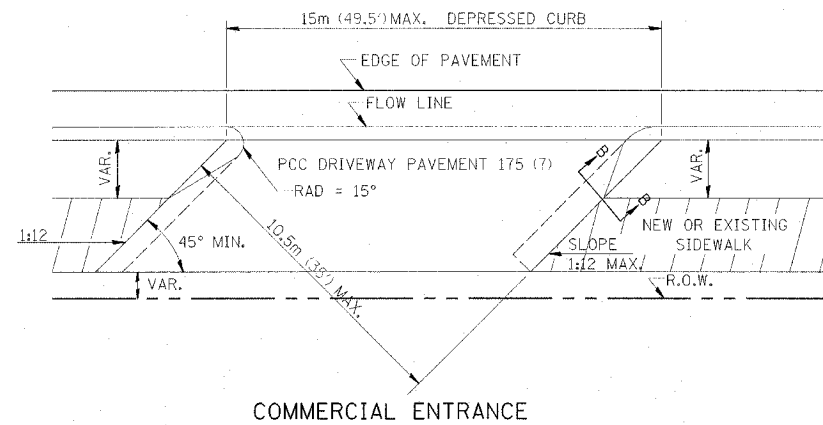
ENTRANCE APPROACHES – URBAN AREA

TYPICAL APPLICATION OF ENTRANCES

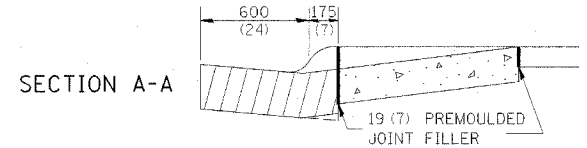


WHEN THE ISLAND BETWEEN DRIVES IS LESS THAN 7.5m (25') LONG OR LESS THAN 10 FEET WIDE, IT SHALL BE DEFINED BY CURBS, MASONRY, OR OTHER DEVICES.

* 45° MIN. ANGLE PERMITTED ONLY FOR ONE-WAY DRIVEWAYS.
60° MIN. ANGLE FOR TWO-WAY DRIVEWAYS.



* IN CASES WHERE GRADE EXCEEDS 12%, THE RESIDENT ENGINEER SHALL CHECK WITH DISTRICT DESIGN OFFICE TO DETERMINE NEW APPROACH GRADE. PARTICULAR ATTENTION SHALL BE PAID TO THE NEGATIVE GRADE TO PREVENT DRAINAGE FROM OVER FLOWING INTO THE PRIVATE ENTRANCE.



THE VARIABLE HEIGHT INTEGRAL CURB AND PREMOULDED JOINT FILLER WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF DRIVEWAY PAVEMENT OF THE THICKNESS SPECIFIED.



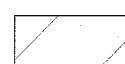
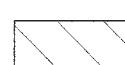
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

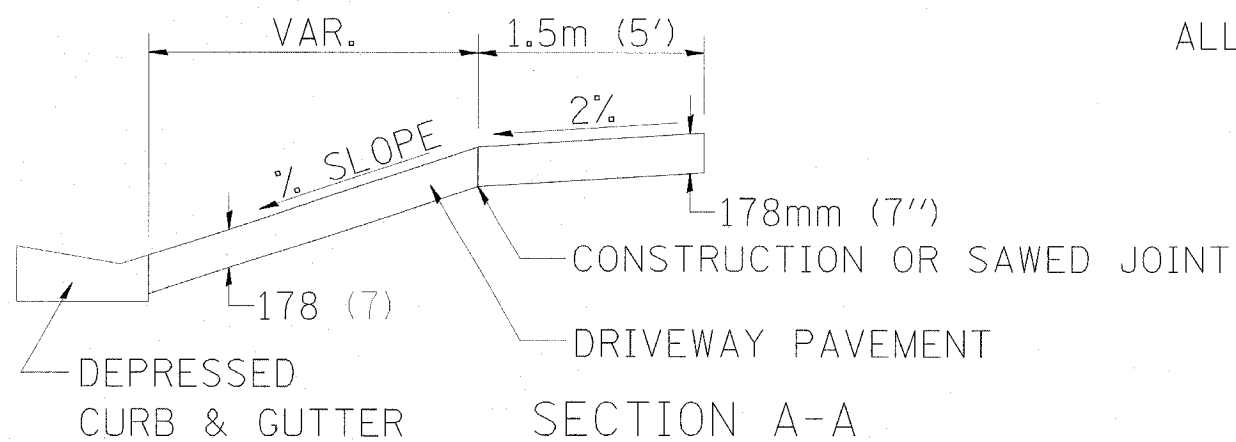
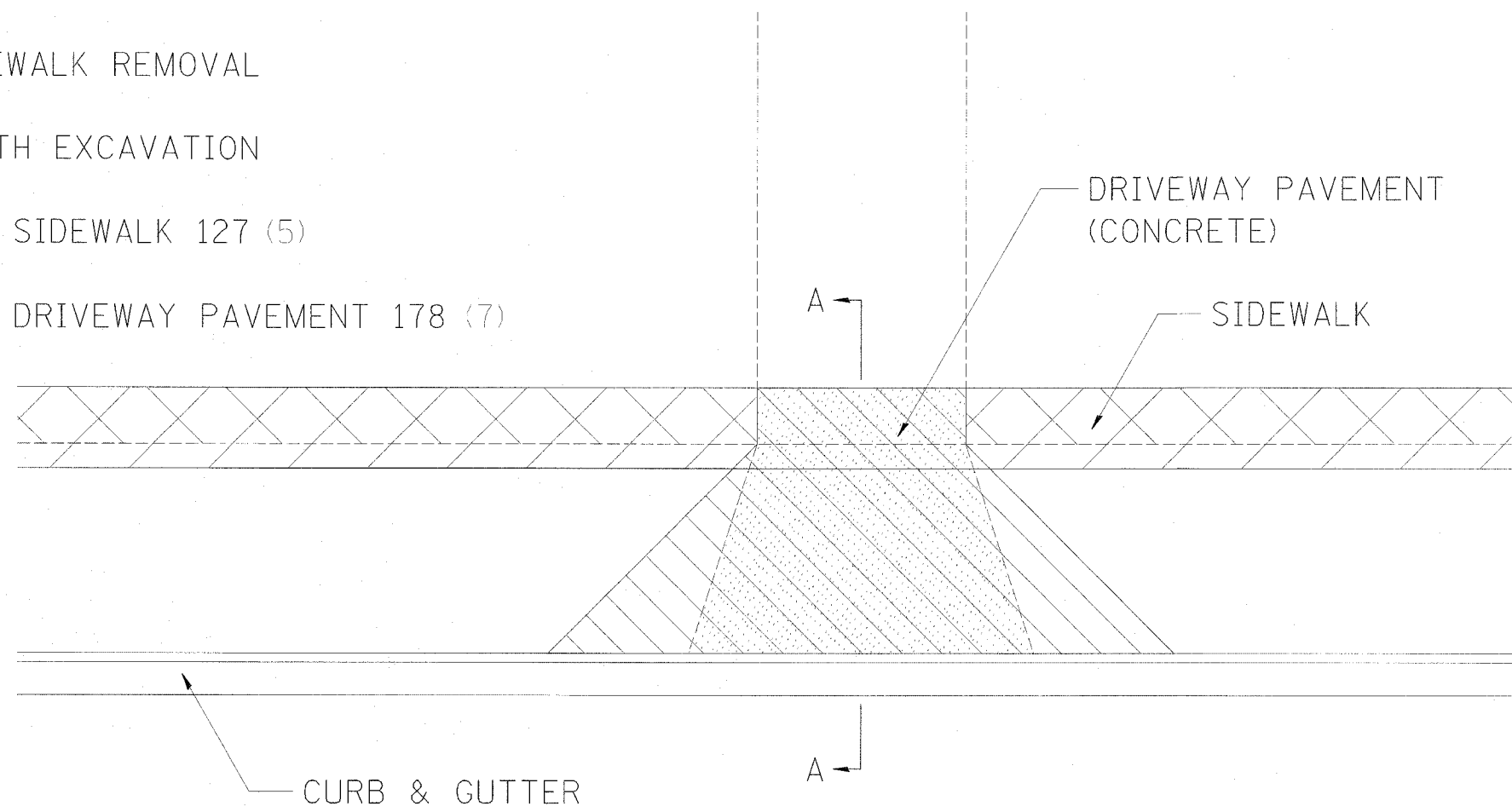
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REFERENCE = 25.1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	38
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SIDEWALK AND DRIVEWAY PAVEMENT PAY AREAS

PAY FOR AS

-  SIDEWALK REMOVAL
-  EARTH EXCAVATION
-  PCC SIDEWALK 127 (5)
-  PCC DRIVEWAY PAVEMENT 178 (7)



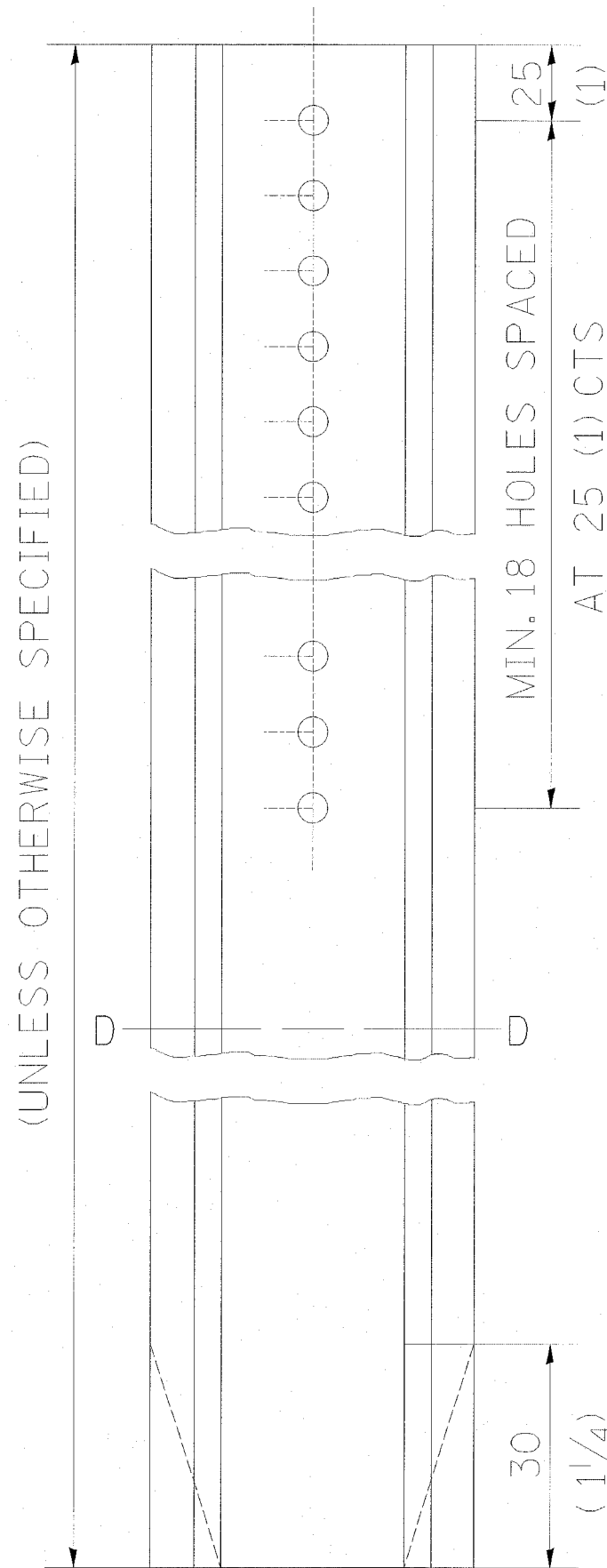
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE NOTED.

FOR DETAILS ON DIMENSIONS
AND GRADES, SEE DISTRICT
STANDARD 25.1 OR PLANS.

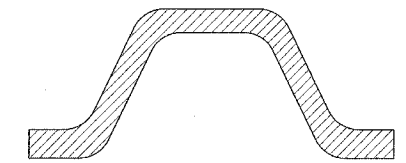
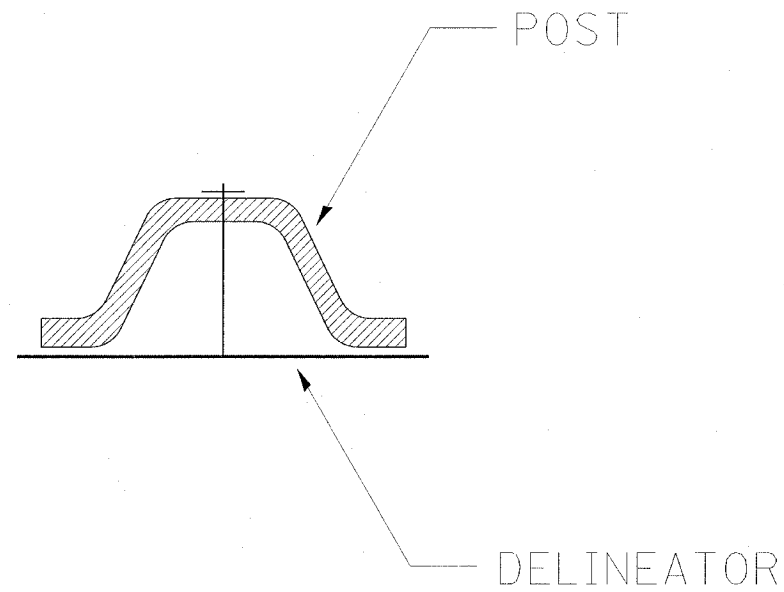
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	39
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DELINEATOR AND POST ORIENTATION



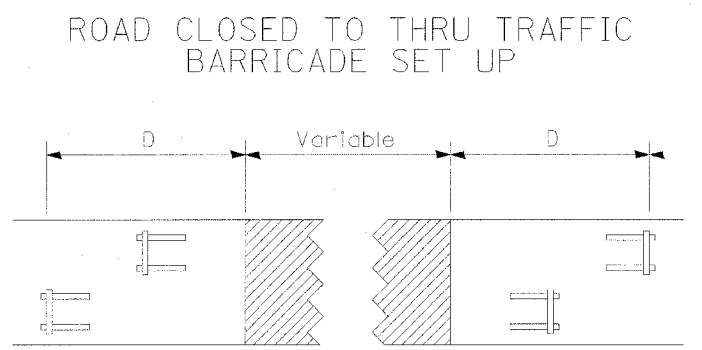
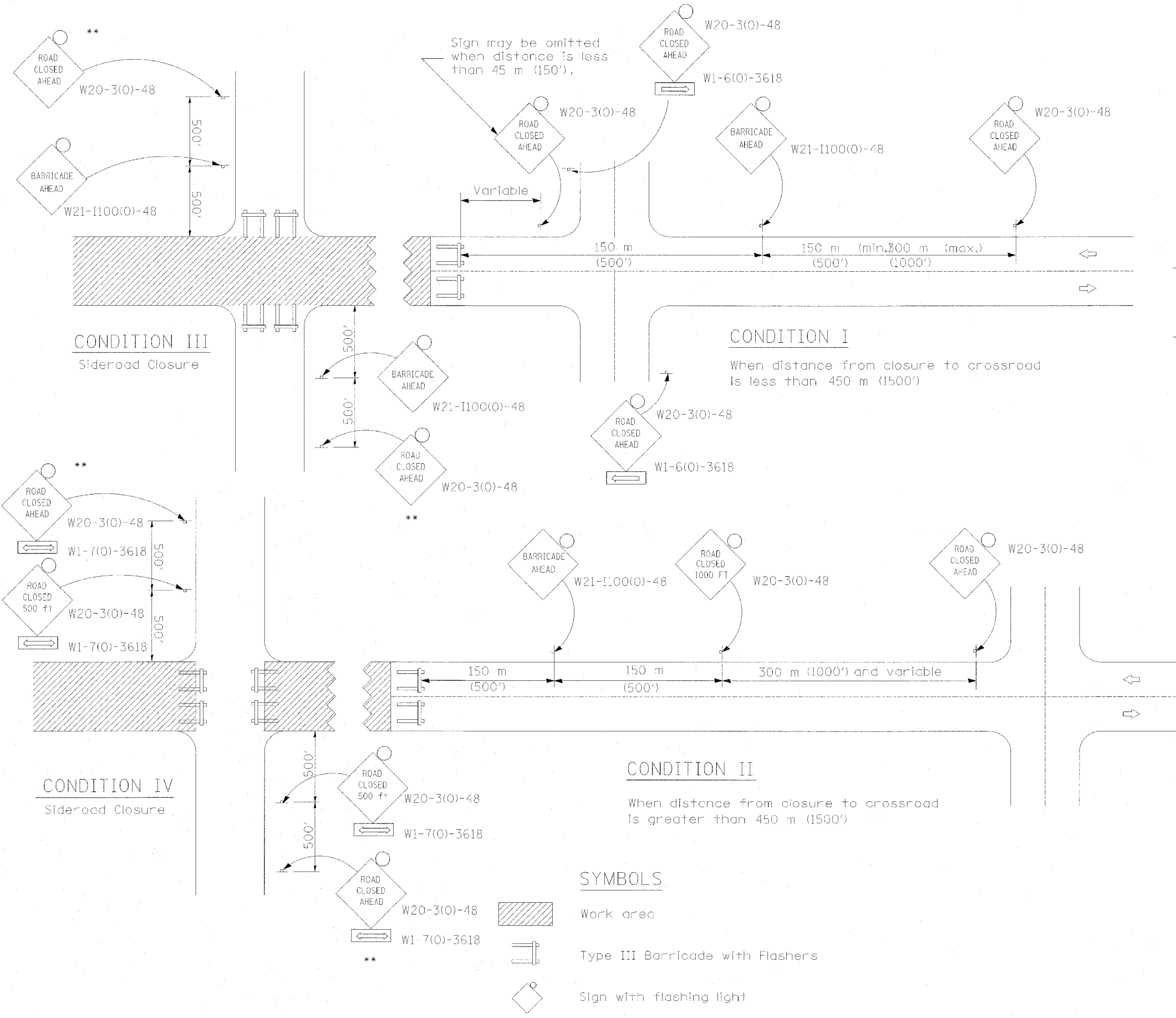
↑
DIRECTION OF TRAFFIC



SECTION D-D

DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517 L-M-3	BOONE	68	40
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 702001. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

GENERAL NOTES

** Where local access is to be maintained, barricades are to be set up as shown above in Road Closed to thru traffic.

Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 702001.

Longitudinal dimensions may be adjusted to fit field conditions.

When the distance between the barricade and the intersection is between 450 m (1500') and 600 m (2000'), the advance sign shall be placed at the intersection. When the distance between the barricade and the intersection is over 600 m (2000'), an additional sign shall be placed at the intersection. The additional sign shall give the distance to the barricade in miles or fractions of a mile.

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

SYMBOLS

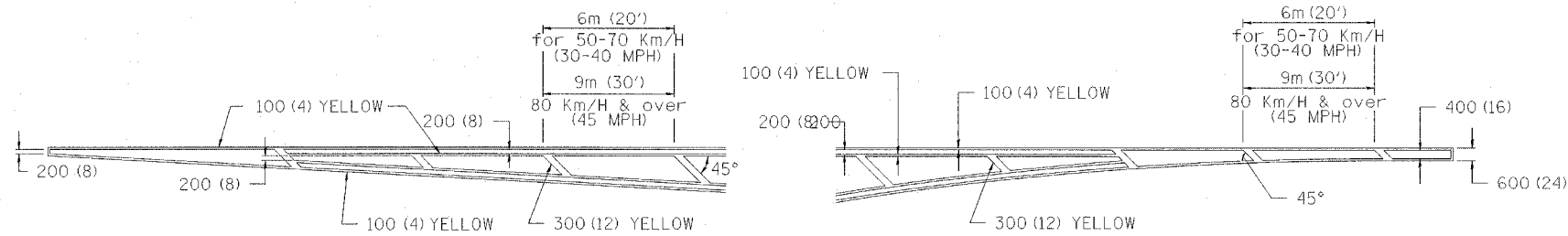
- Work area
- Type III Barricade with Flashers
- Sign with flashing light

PLOT DATE = 8/2/05
 FILE NAME = 814141.dwg
 PLOT SCALE = 1:1
 REFERENCE = 814141

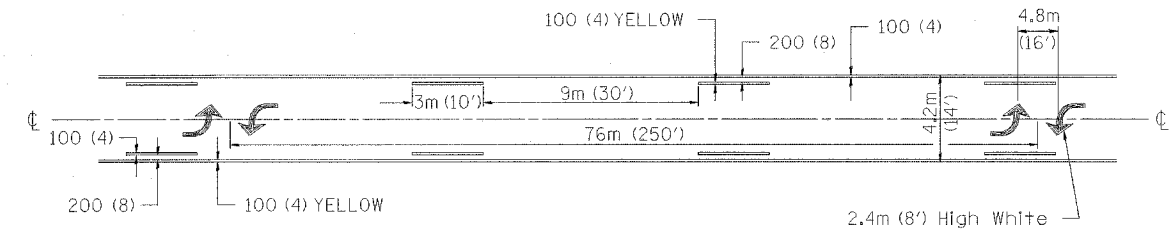
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	41
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

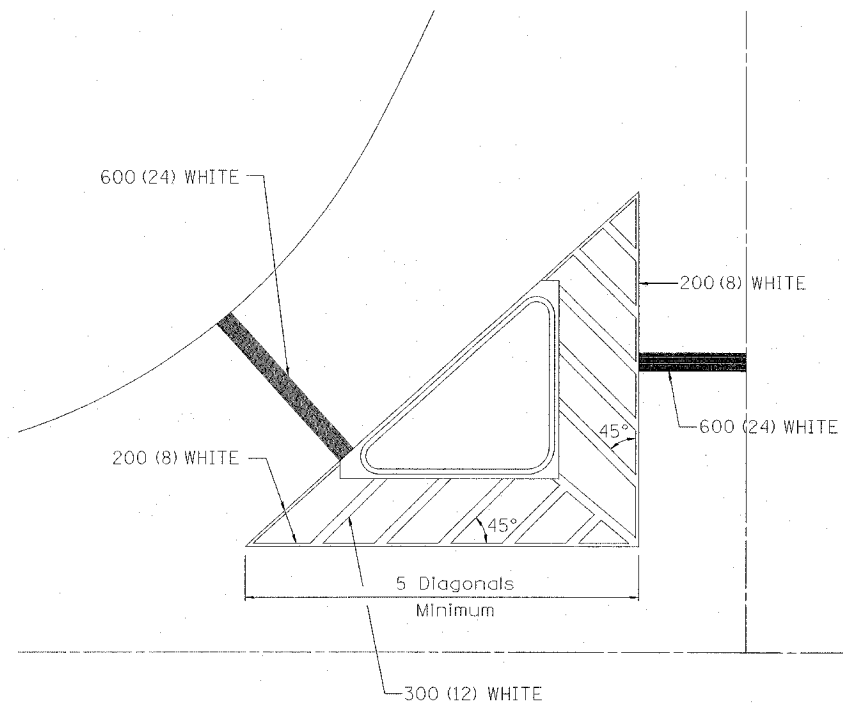
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



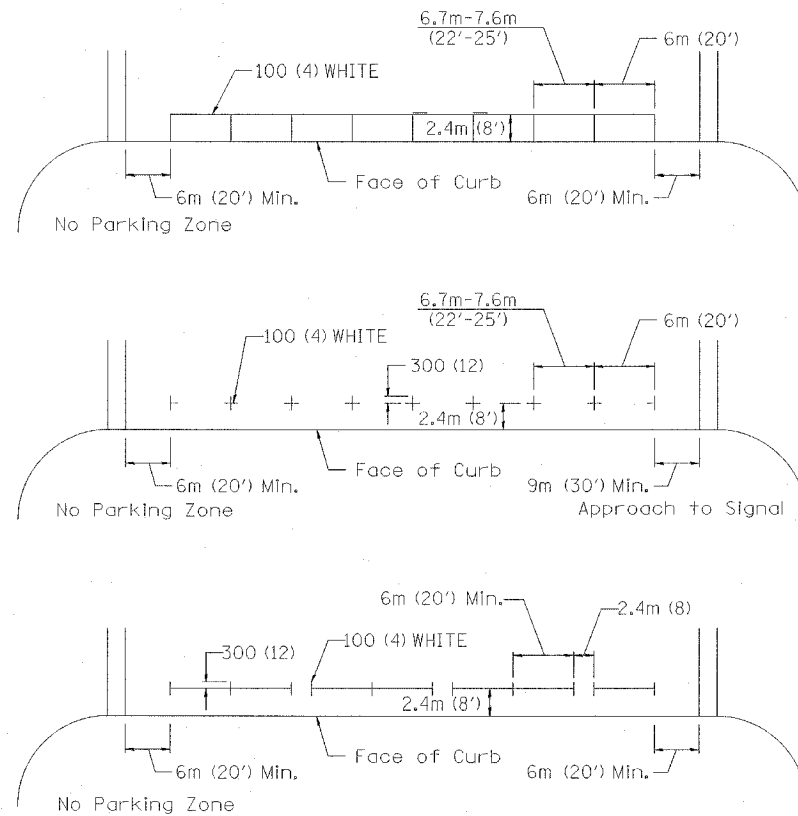
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND
OFFSET SHOULDER WIDTH

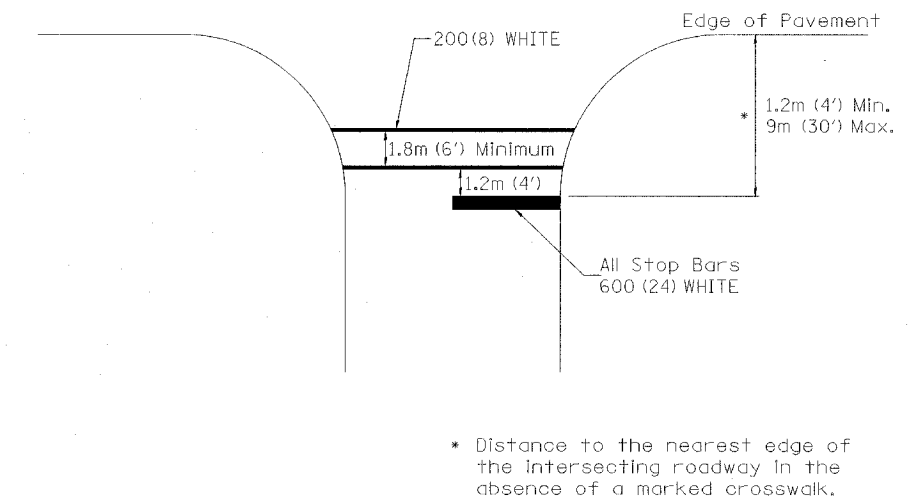


TYPICAL PARKING SPACING



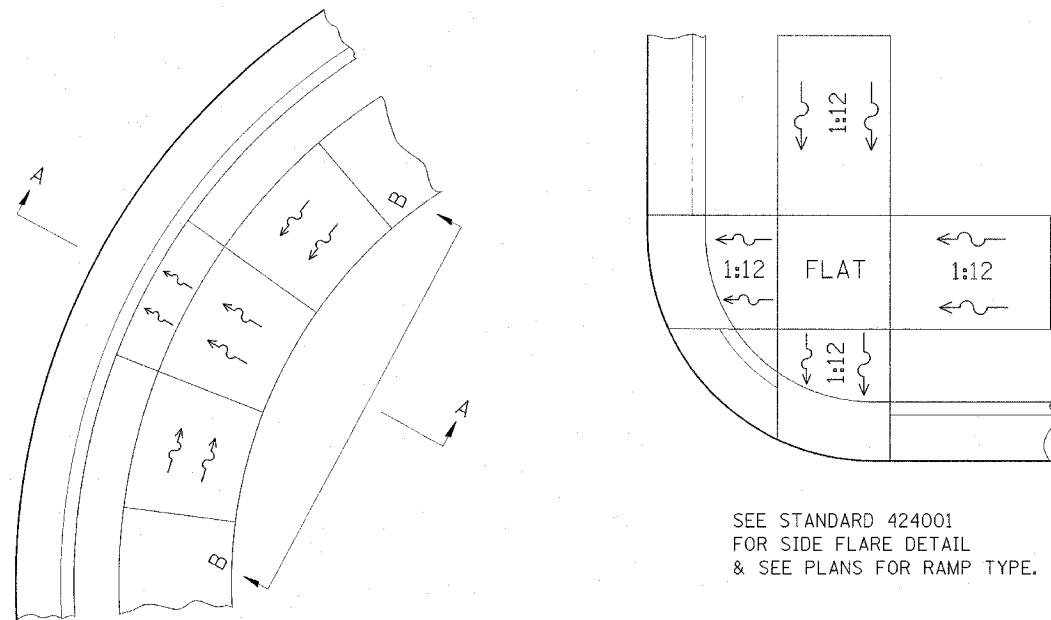
** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

STANDARD CROSSWALK MARKING
See Schedules for Locations



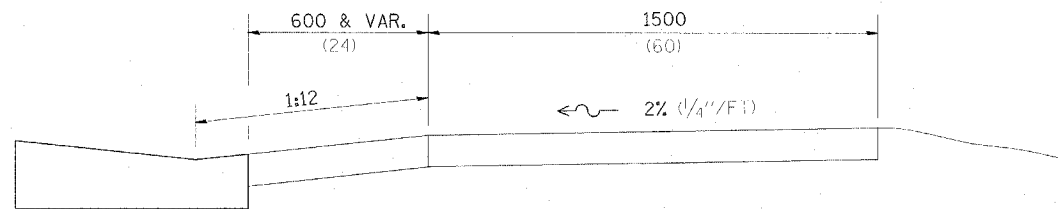
* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

DISABLED RAMP DETAIL

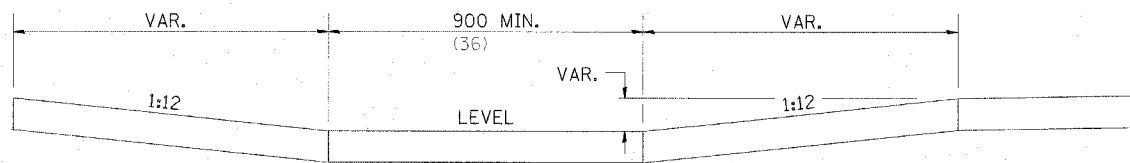


SEE STANDARD 424001 FOR SIDE FLARE DETAIL & SEE PLANS FOR RAMP TYPE.

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



SECTION A-A



SECTION B-B

NOTES : THIS DETAIL TO BE USED IN CONJUNCTION WITH STATE STANDARD 424001. THE MAXIMUM ALLOWABLE CROSS SLOPE FOR SIDEWALK IS 2% (1/4"/FT). THE MAXIMUM ALLOWABLE SIDEWALK GRADE IS 8% (1/2"/FT). IF SPACE LIMITATIONS PROHIBIT THE USE OF THE 1:12 SLOPE, THEN SLOPES BETWEEN 1:10 ARE PERMITTED FOR A MAXIMUM RISE OF 150 (6). SLOPES 1:8 AND 1:10 ARE ALLOWED FOR A MAXIMUM RISE OF 75 (3). SLOPES STEEPER THAN 1:8 ARE NOT PERMITTED. THE DEPRESSED CURB IS NOT STANDARD. THE RISE IS 13 (1/2) INSTEAD OF 40 (1 1/2).

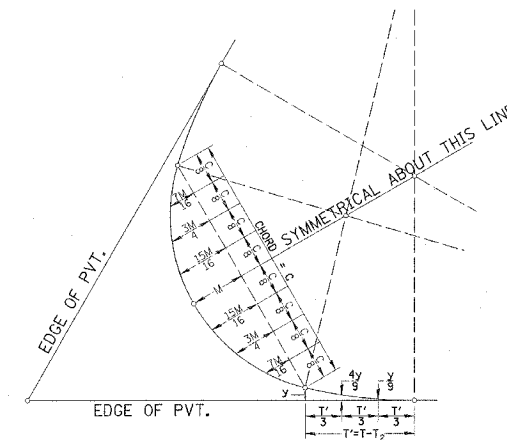
REVISED 12/08/92

THREE CENTER CURVE DATA

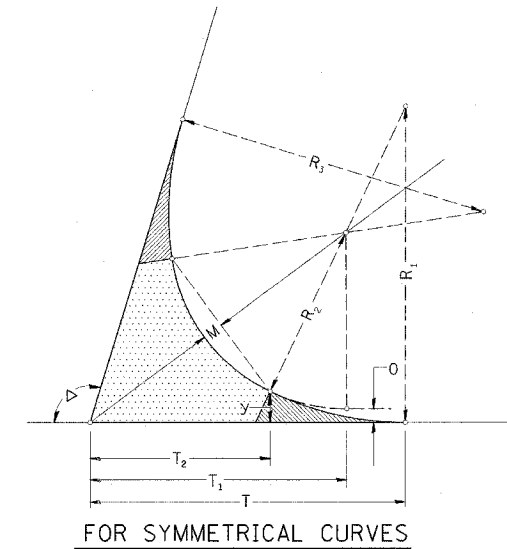
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	43
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SYMMETRICAL CURVES

CURVE #									
R ₁									
R ₂									
R ₃									
O									
Δ									
T									
T ₁									
T ₂									
T'									
y									
4y/9									
y/9									
M									
15M/16									
3M/4									
7M/16									
C									



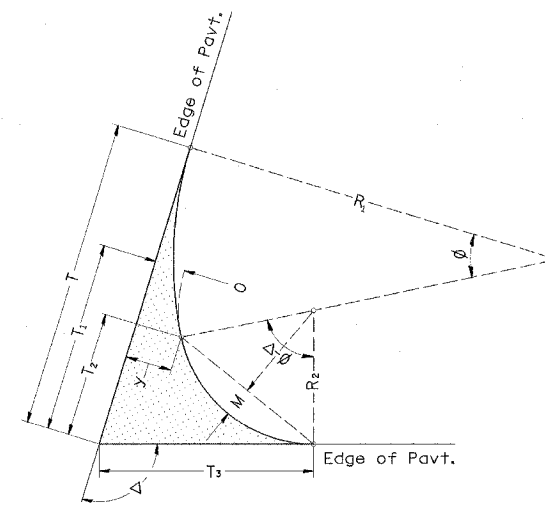
FIELD LAYOUT METHOD



FOR SYMMETRICAL CURVES

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

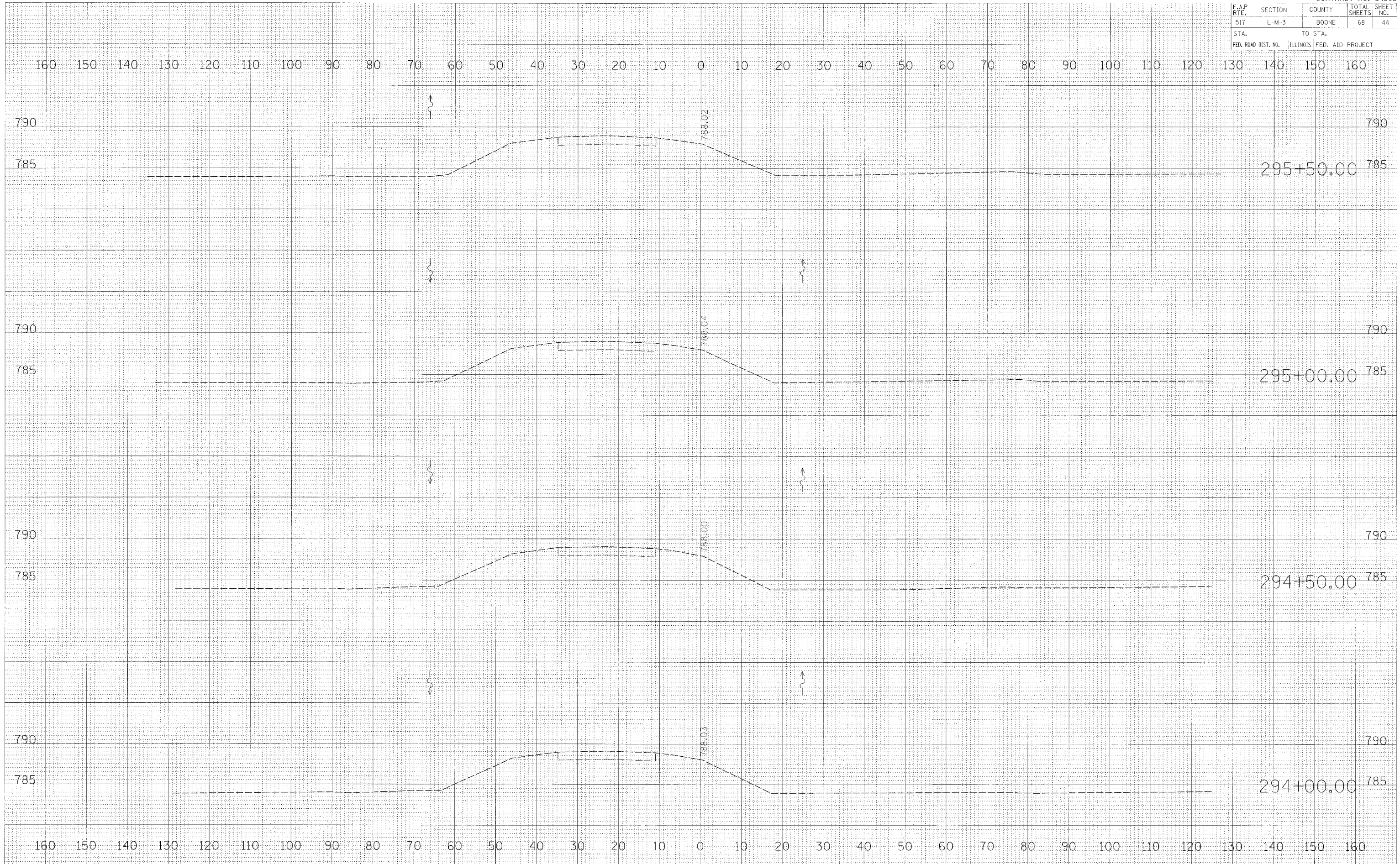
TWO CENTER CURVE DATA



TWO CENTER CURVES

	BONUS SW	BONUS SE	BONUS NW	BONUS NE				
CURVE #	1	2	3	4				
R ₁	350	360	320	320				
R ₂	50	120	60	62				
O	13	4	11	10				
Δ	90.89	89.11	89.11	90.89				
T	130.88	161.72	130.22	132.74				
T ₁	50.98	117.90	58.92	61.32				
T ₂	36.26	96.35	42.62	44.61				
T ₃	63.62	121.08	69.08	71.14				
y	14.94	11.00	12.31	12.31				
4y/9	6.64	4.89	5.47	5.47				
y/9	1.66	1.22	1.37	1.37				
M	10.08	26.86	11.82	12.44				
15M/16	9.45	25.18	11.08	11.66				
3M/4	7.56	20.15	8.86	9.33				
7M/16	4.41	11.75	5.17	5.44				
C	60.22	151.32	71.52	73.16				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	44
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

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

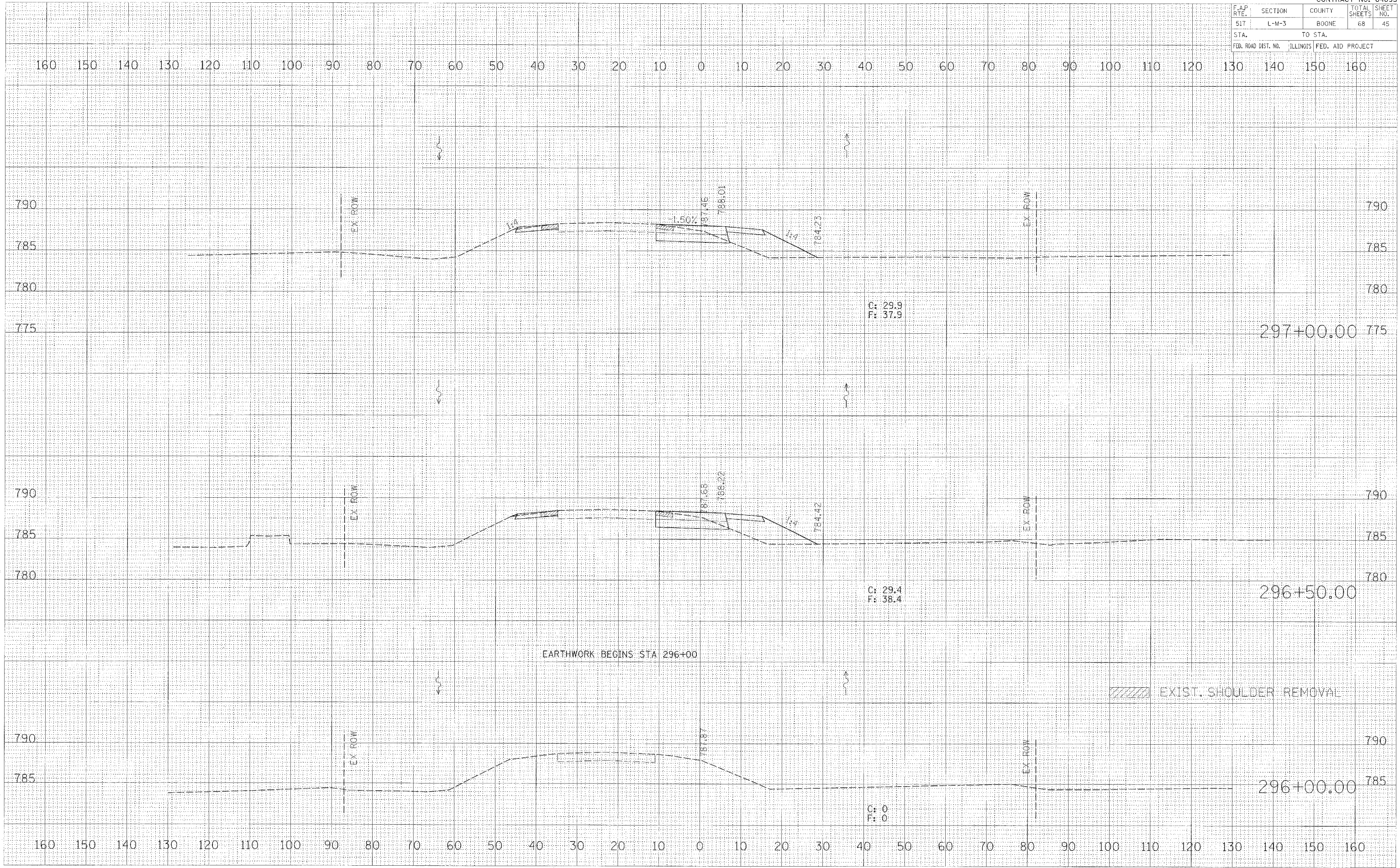
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517	L-M-3	BOONE	68	45
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

DATE	BT
SERIALIZED	PLOTTED
NOTED	APPROVED
NO.	

DATE	BT
SERIALIZED	PLOTTED
NOTED	APPROVED
NO.	

PLOT DATE = 08/04/09
 PLOT NAME = 08/04/09
 PLOT REFERENCE = 08/04/09



EARTHWORK BEGINS STA 296+00

EXIST. SHOULDER REMOVAL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	46
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

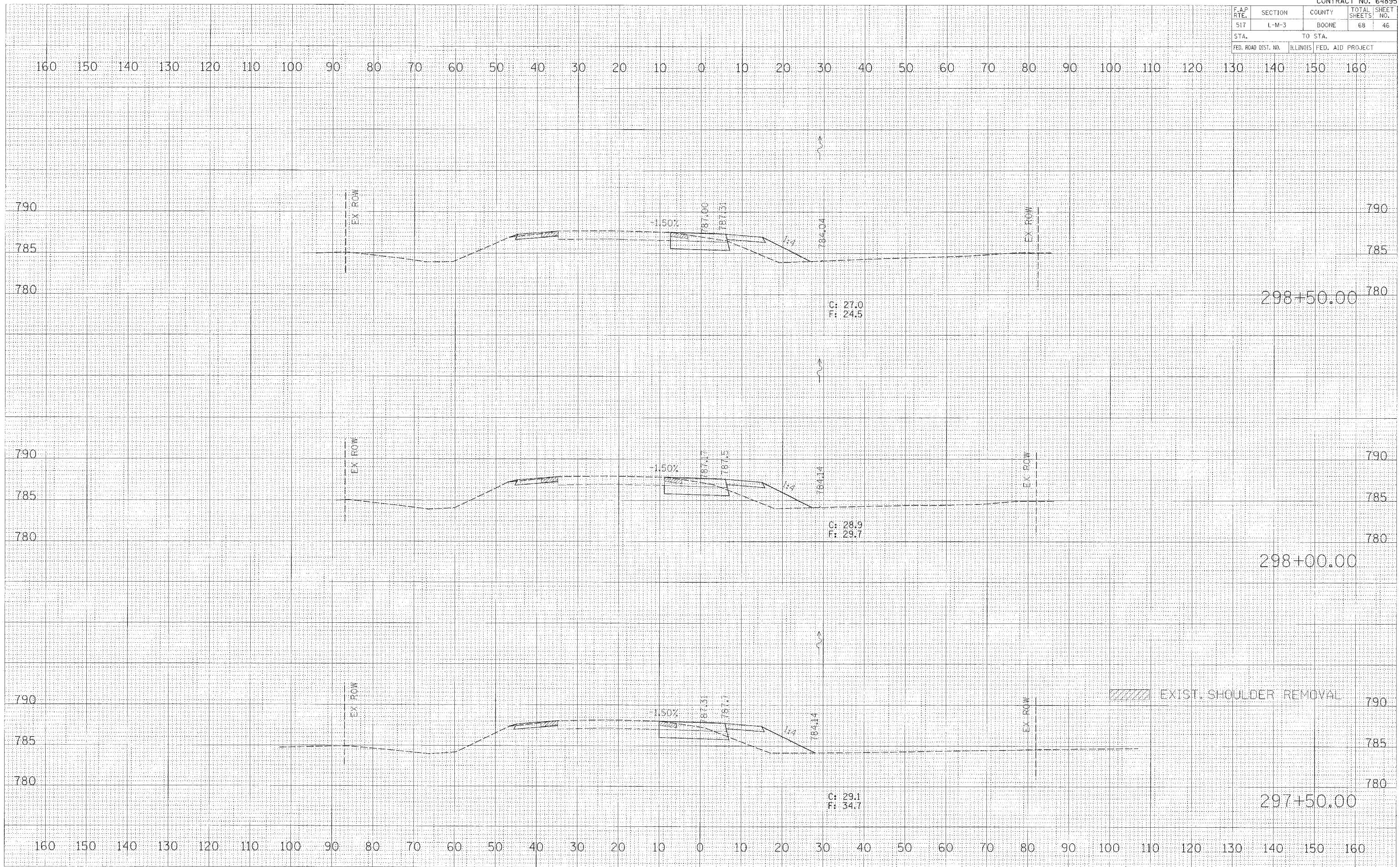
DATE	BY

FINAL SURVEY	SUBMITTED
NOTE BOOK	PLOTTED
NO.	TEMP. AT
	AREAS CHECKED

DATE	BY

ORIGINAL SURVEY	SUBMITTED
NOTE BOOK	PLOTTED
NO.	TEMP. AT
	AREAS CHECKED

PLOT DATE: *DATE*
 FILE NAME: *FILE*
 REFERENCE: *REF*

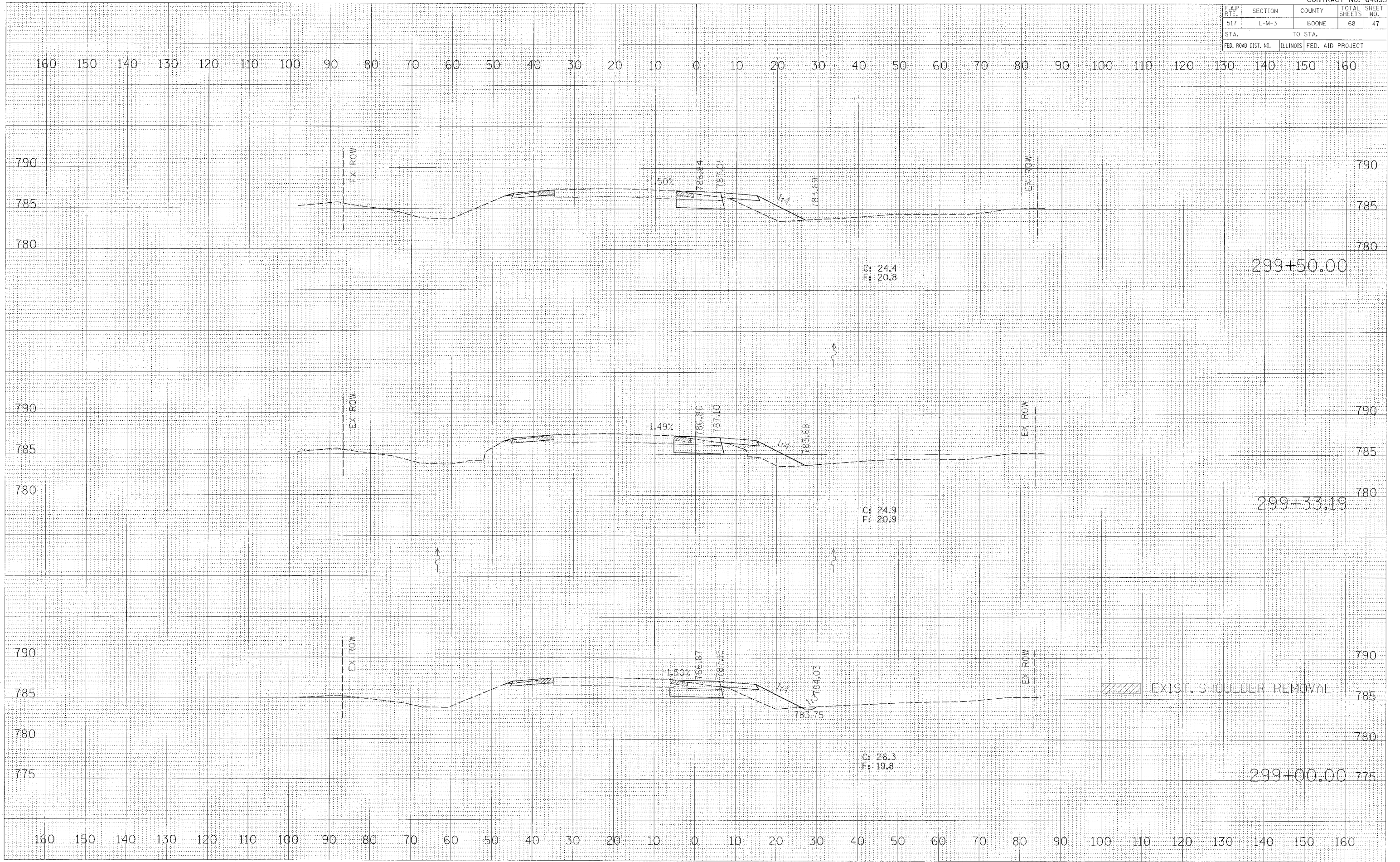


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

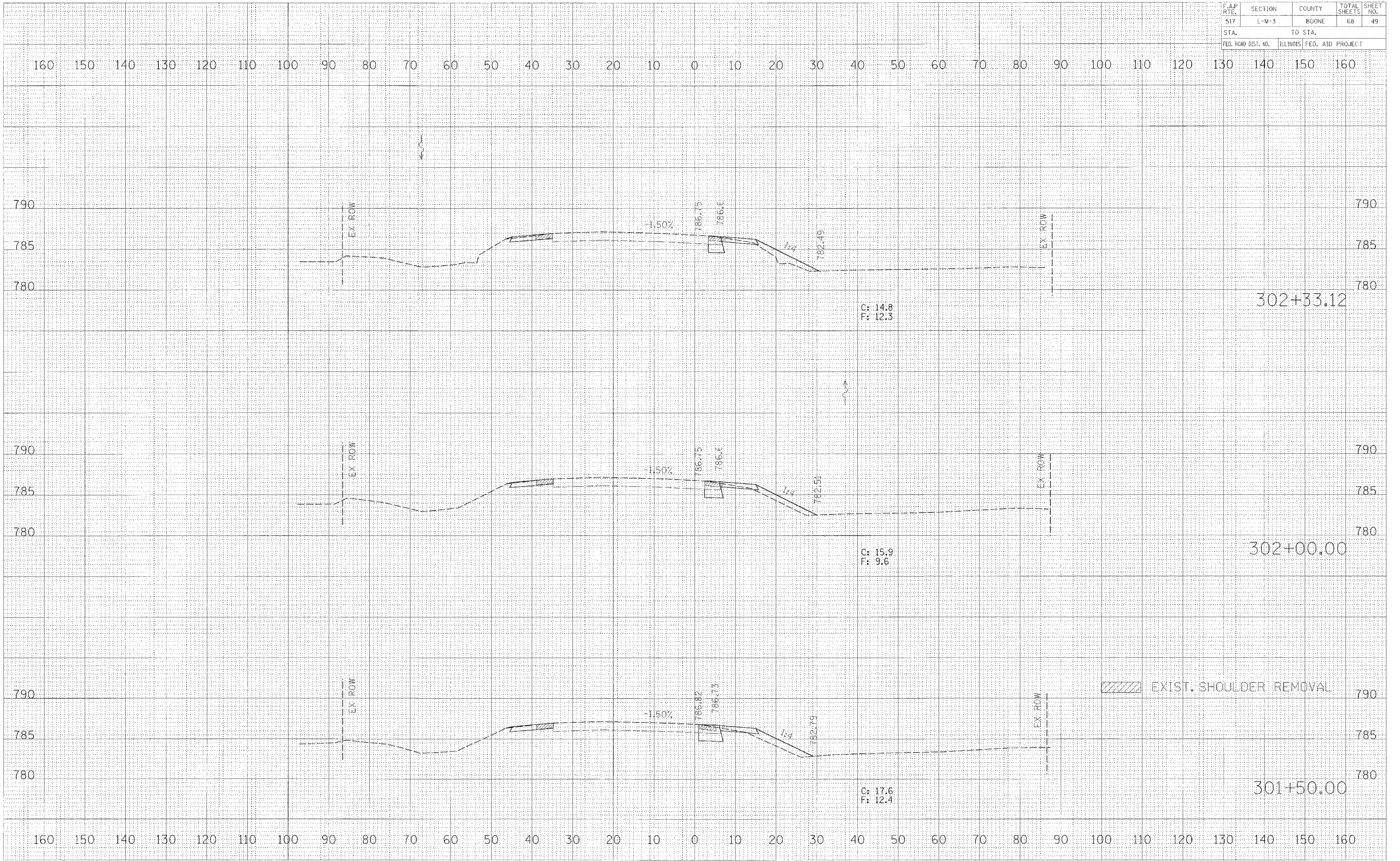
DATE: _____ BY: _____
 CHECKED: _____
 SURVEYED: _____
 PLOTTED: _____
 TEMPLATE: _____
 AREAS: _____
 APPS: _____
 DESIGNED: _____
 FINAL SURVEY: _____
 NOTE BOOK: _____
 NO. _____

DATE: _____ BY: _____
 CHECKED: _____
 SURVEYED: _____
 PLOTTED: _____
 TEMPLATE: _____
 AREAS: _____
 APPS: _____
 DESIGNED: _____
 ORIGINAL SURVEY: _____
 NOTE BOOK: _____
 NO. _____

DATE: _____ BY: _____
 CHECKED: _____
 SURVEYED: _____
 PLOTTED: _____
 TEMPLATE: _____
 AREAS: _____
 APPS: _____
 DESIGNED: _____
 ORIGINAL SURVEY: _____
 NOTE BOOK: _____
 NO. _____



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



DATE	BY

DATE	BY

DATE	BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	51
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

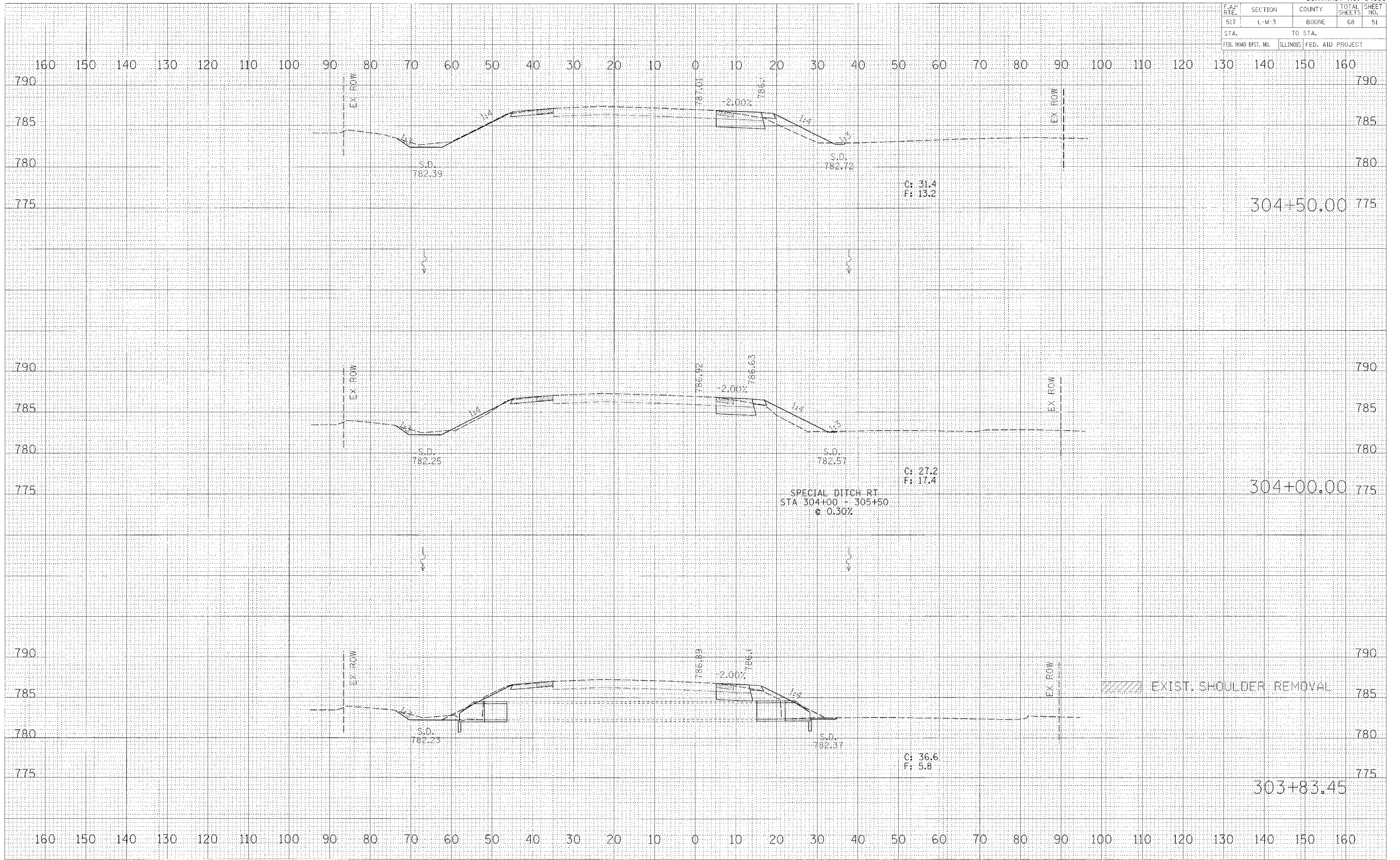
DATE	BY

NO.	AREA CHECKED

DATE	BY

NO.	AREA CHECKED

PLOT DATE = 8/24/05
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
REFERENCE = #REF#



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	52
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

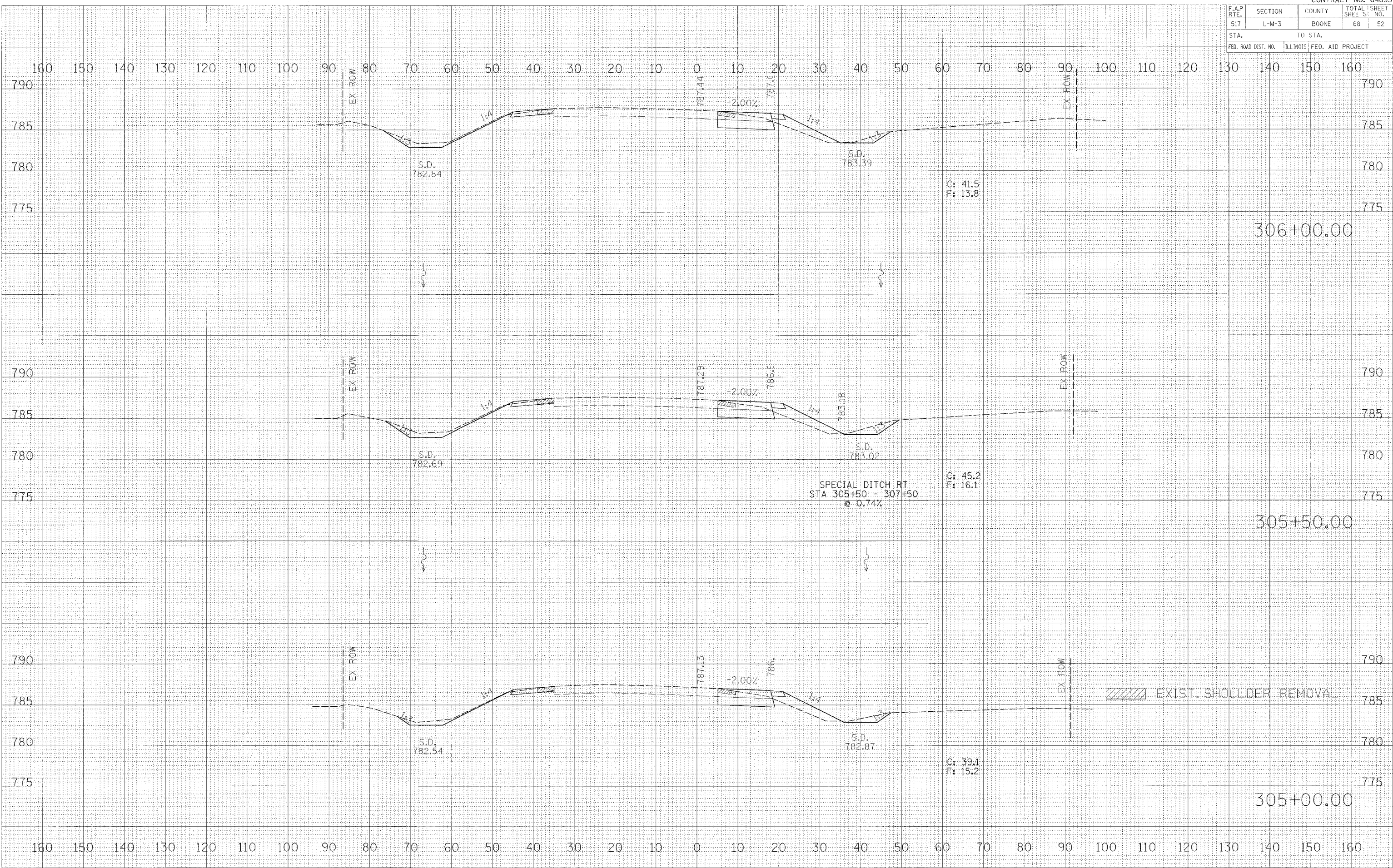
DATE	BY

SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

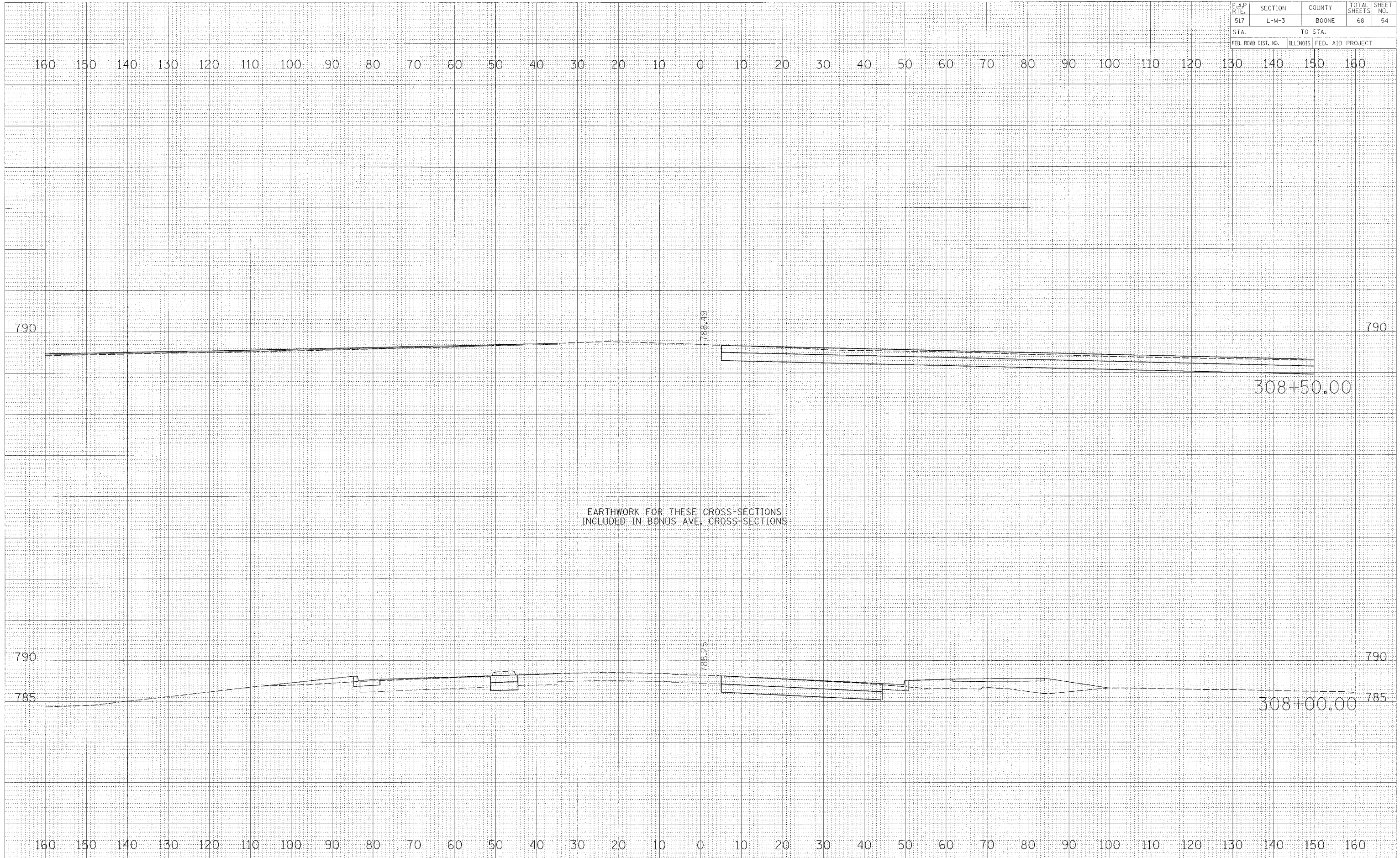
DATE	BY

SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

PLOT DATE = 8/27/05
 FILE NAME = 11/11/05
 PLOT SCALE = 1"=40'
 REFERENCE = BREF#



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	54
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

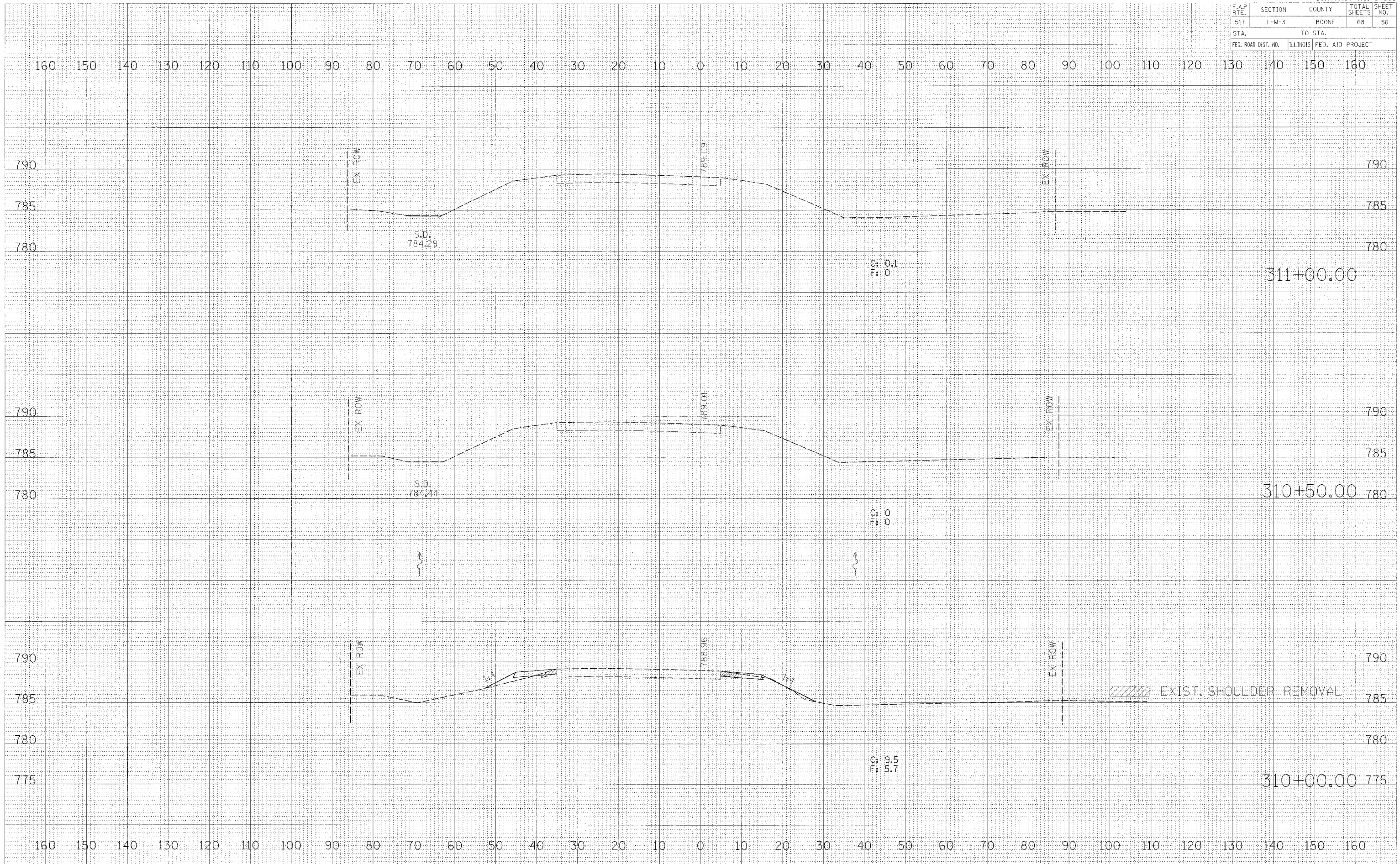


FINAL	SUBMITTED	DATE
SUPPLY	PLOTTED	
NOTE BOOK	TEMP. PLATE	
NO.	AREAS CHECKED	

ORIGINAL	SUBMITTED	DATE
SUPPLY	PLOTTED	
NOTE BOOK	TEMP. PLATE	
NO.	AREAS CHECKED	

PLOT DATE = 8/04/05
 FILE NAME = 8/11/05
 PREFERENCE = 8/11/05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	56
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



DATE: _____ BY: _____
 SUBMITTED: _____ PLOTTED: _____
 FINAL SURVEY: _____ TEMPLATE: _____
 NOTE BOOK: _____ AREA: _____
 NO. _____

DATE: _____ BY: _____
 SUBMITTED: _____ PLOTTED: _____
 ORIGINAL SURVEY: _____ DATE: _____
 NOTE BOOK: _____ AREA: _____
 NO. _____

PLOT DATE = 8/24/05
 FILE NAME = 011111.dwg
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	57
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

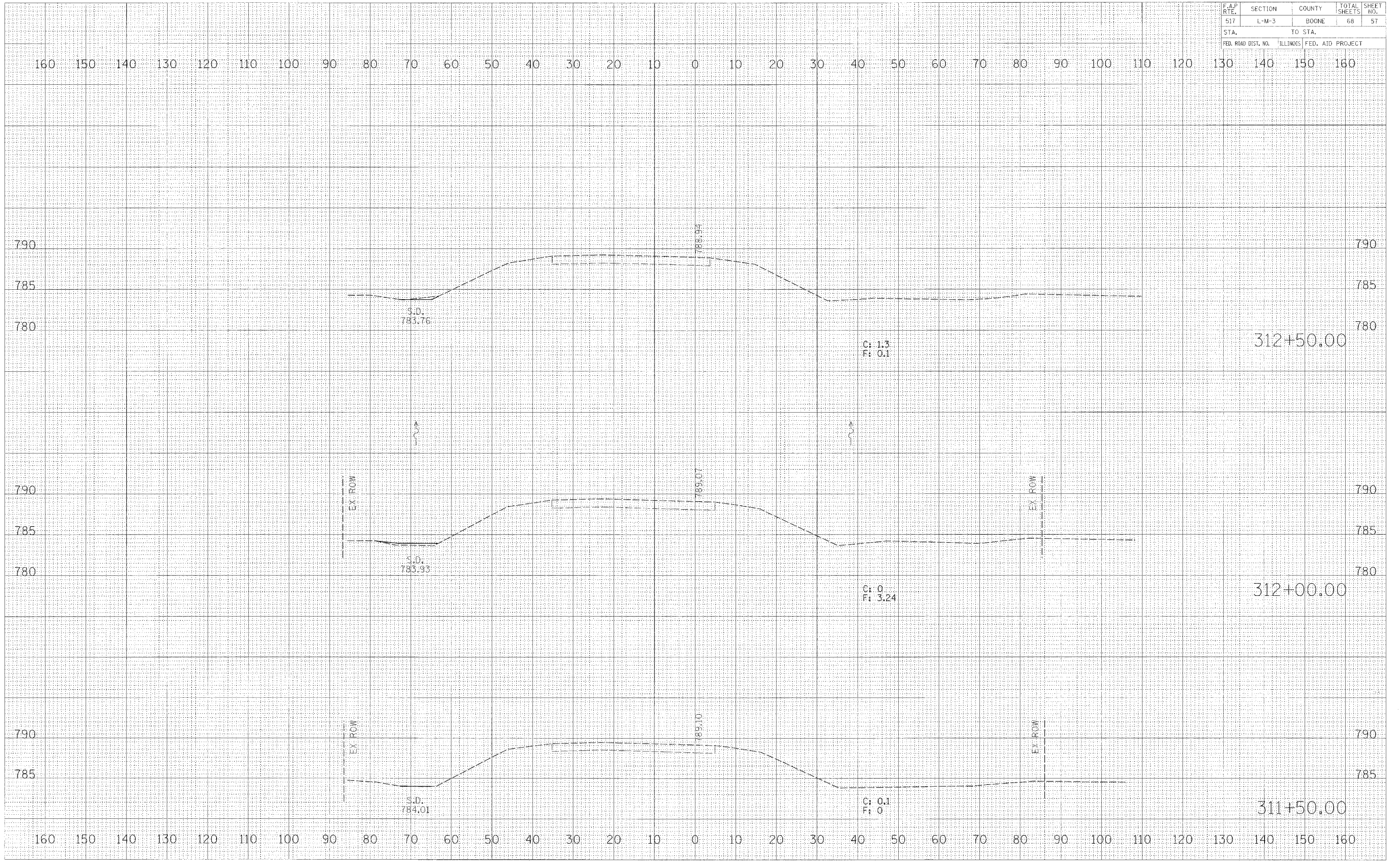
DATE	BY

NO.	DESCRIPTION

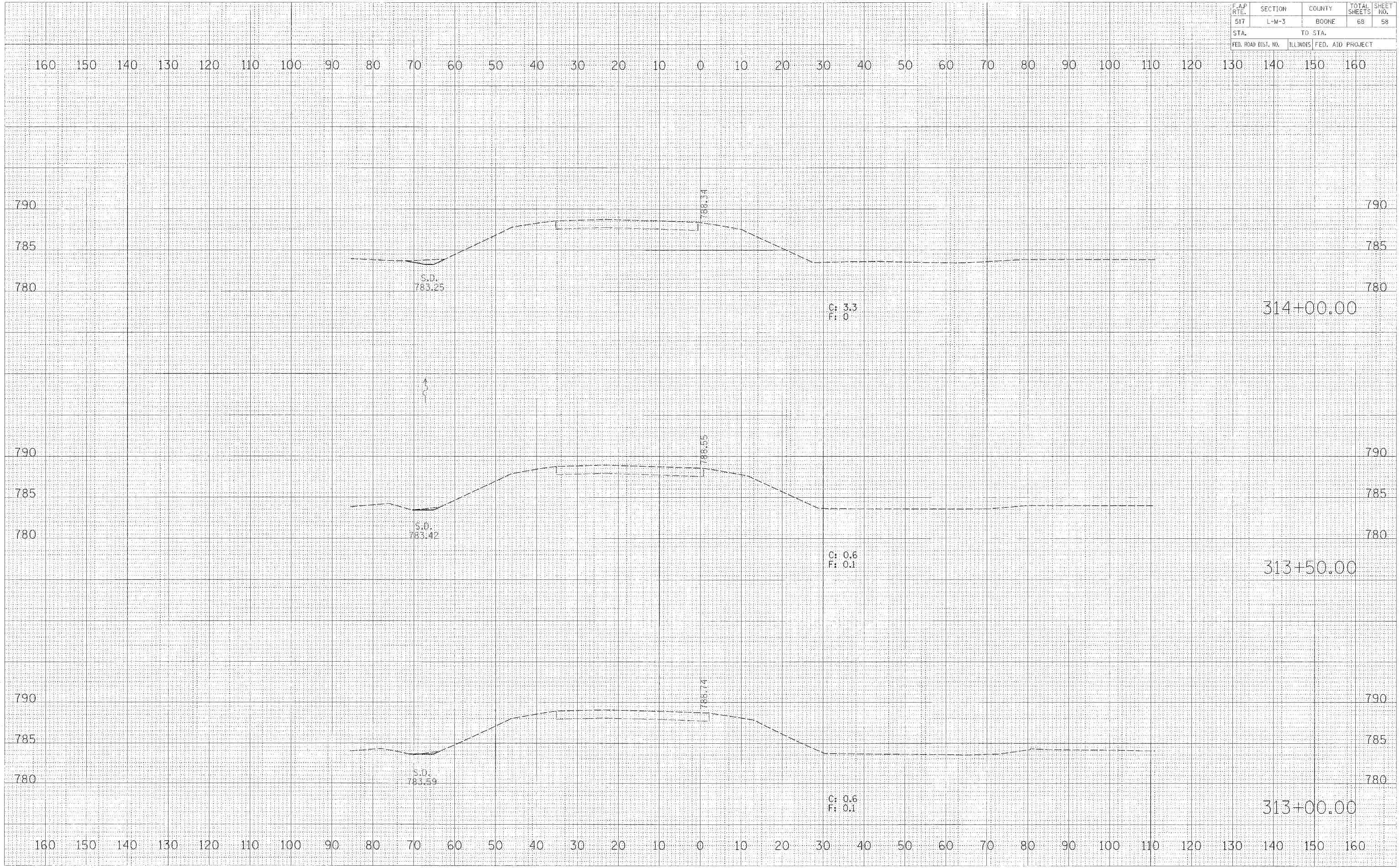
DATE	BY

NO.	DESCRIPTION

PLOT DATE = #DATE#
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 REFERENCE = #REF#



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	58
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DATE	BY

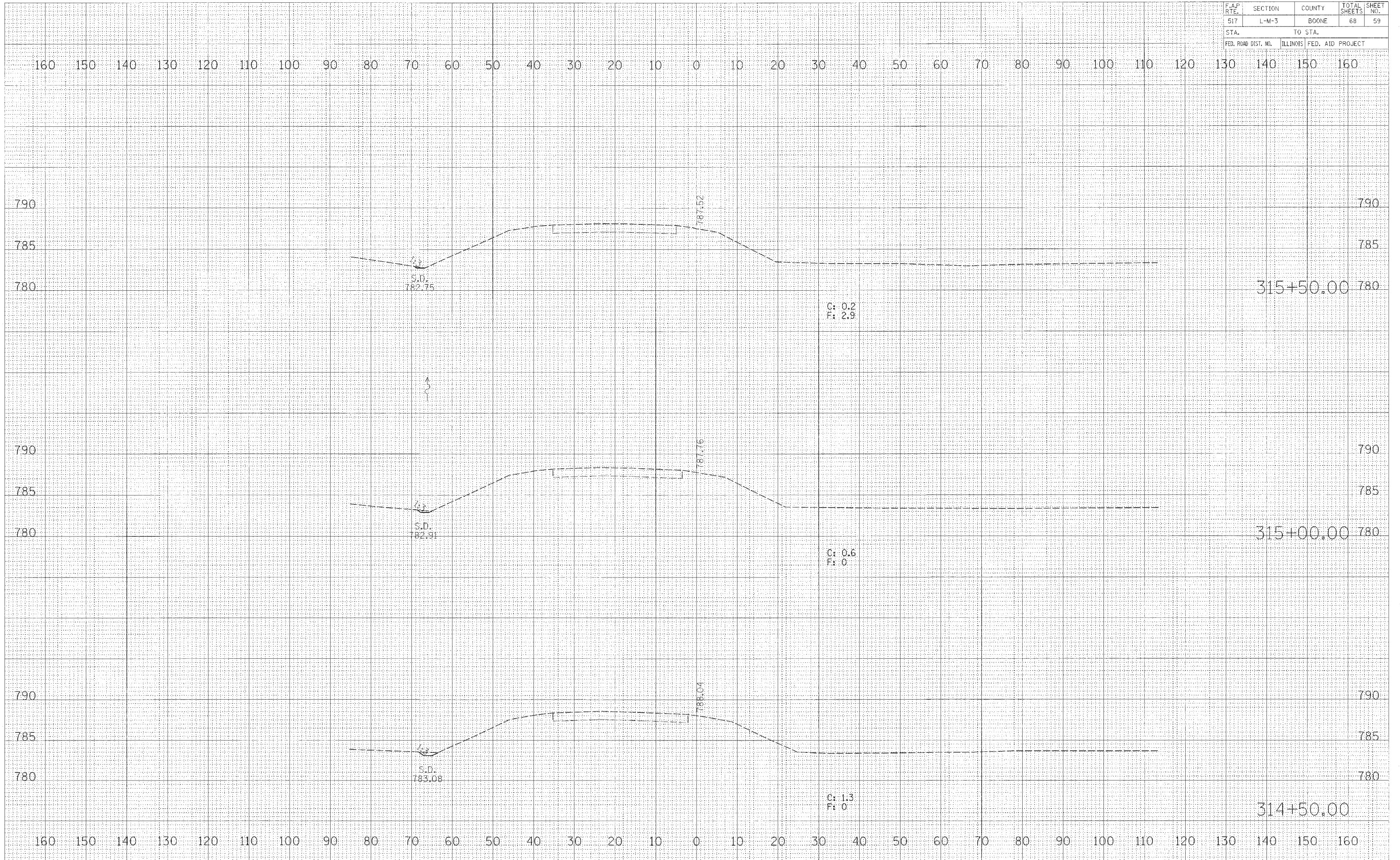
NO.	AREA CHECKED	DATE

DATE	BY

NO.	AREA CHECKED	DATE

PLOT DATE = #DATE#
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	59
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



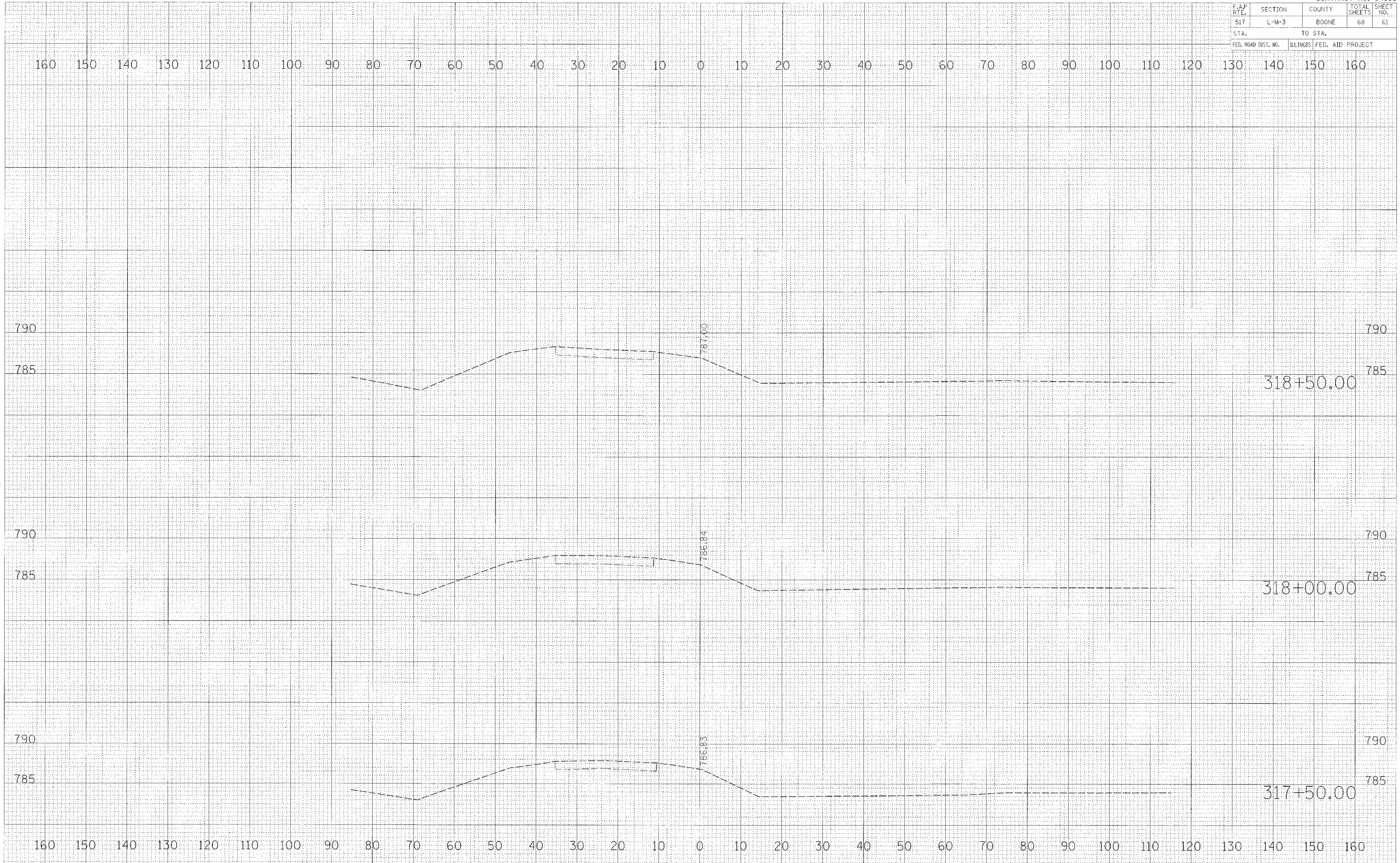
DATE	BY
SURVEY	DATE
PLOTTED	BY
TEMPLATE	DATE
NOTE BOOK	BY
NO.	DATE
AREAS CHECKED	BY
AREAS CHECKED	DATE

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

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

BUS RTE 20

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	61
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



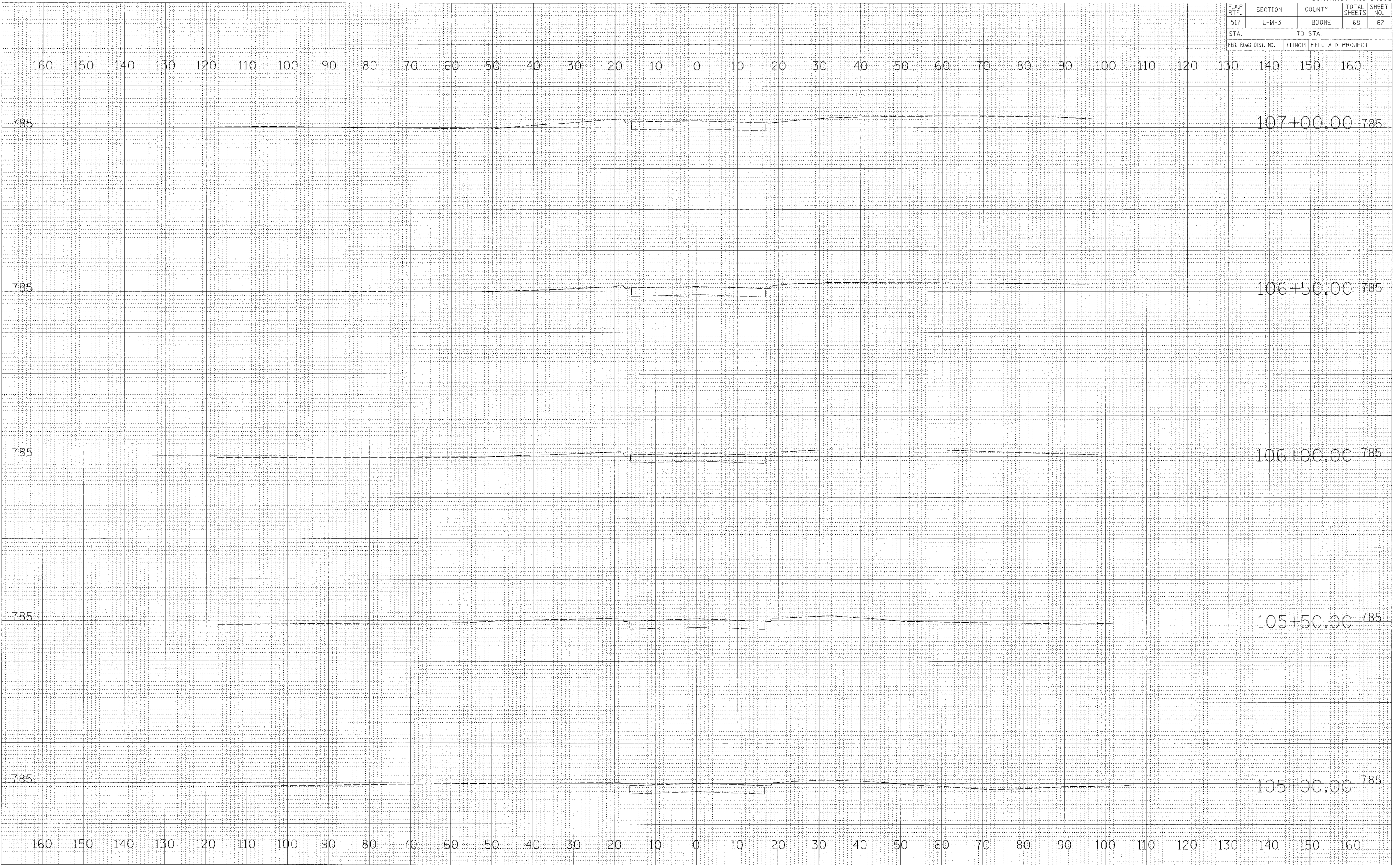
FINAL SURVEY SUBMITTED BY DATE
 NOTE BOOK NO. _____
 AREAS CHECKED _____

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

PLOT DATE = 10/31/05
 PLOT NAME = 10/31/05
 PLOT SCALE = 1" = 40'
 PLOT REFERENCE = AREAS

BUS RTE 20

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	62
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



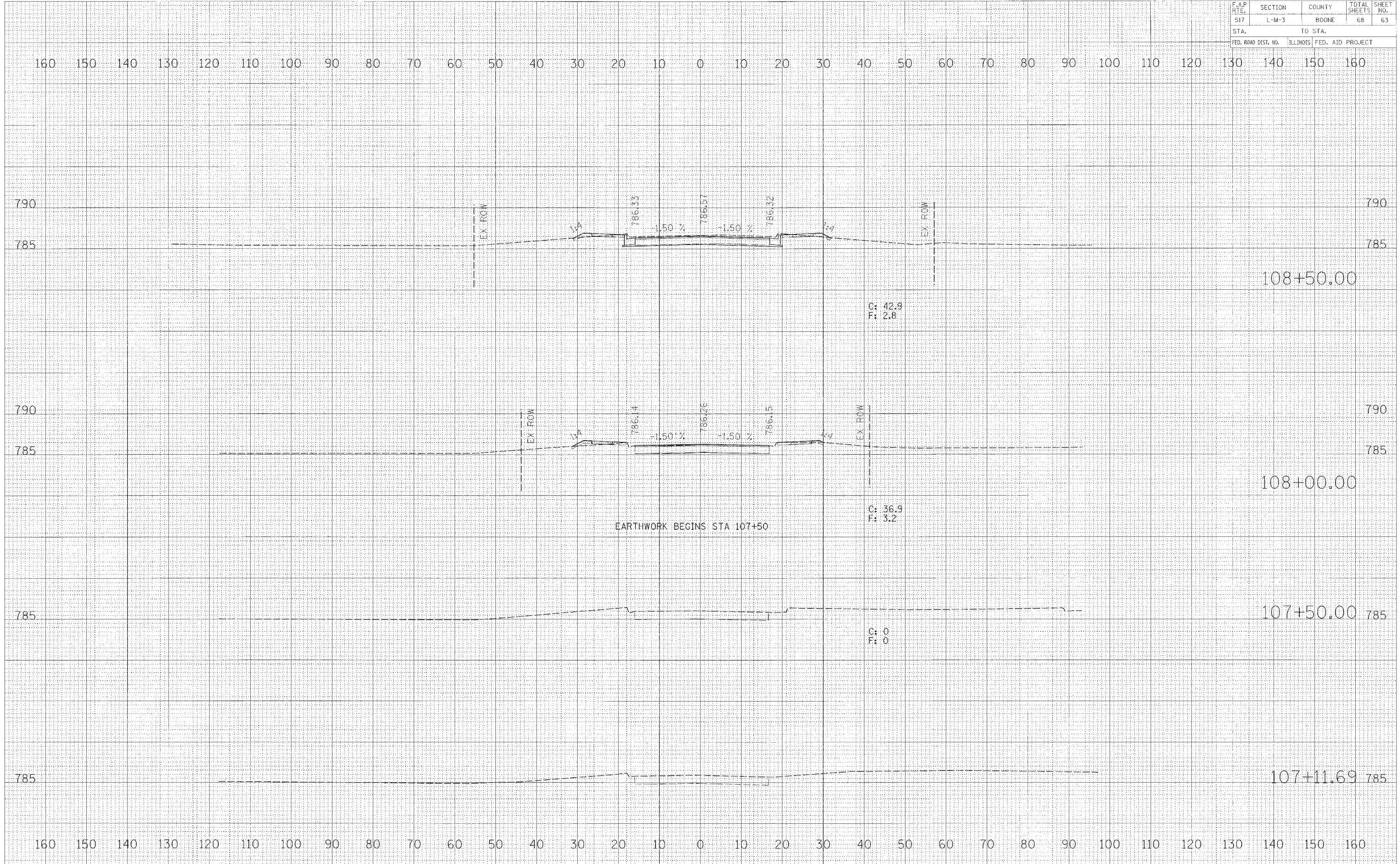
BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREA CHECKED _____
 NO. _____

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREA CHECKED _____
 NO. _____

PLOT DATE = 8/1/05
 FILE NAME = 8/1/05
 PLOT SCALE = 1"=40'
 REFERENCE = REF#

BONUS AVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	63
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

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

DATE: _____
 FILE NAME: _____
 REFERENCE: _____
 PLOT DATE: _____
 # STATES: _____
 # TITLES: _____
 # SHEETS: _____
 # AREAS: _____

BONUS AVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	64
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

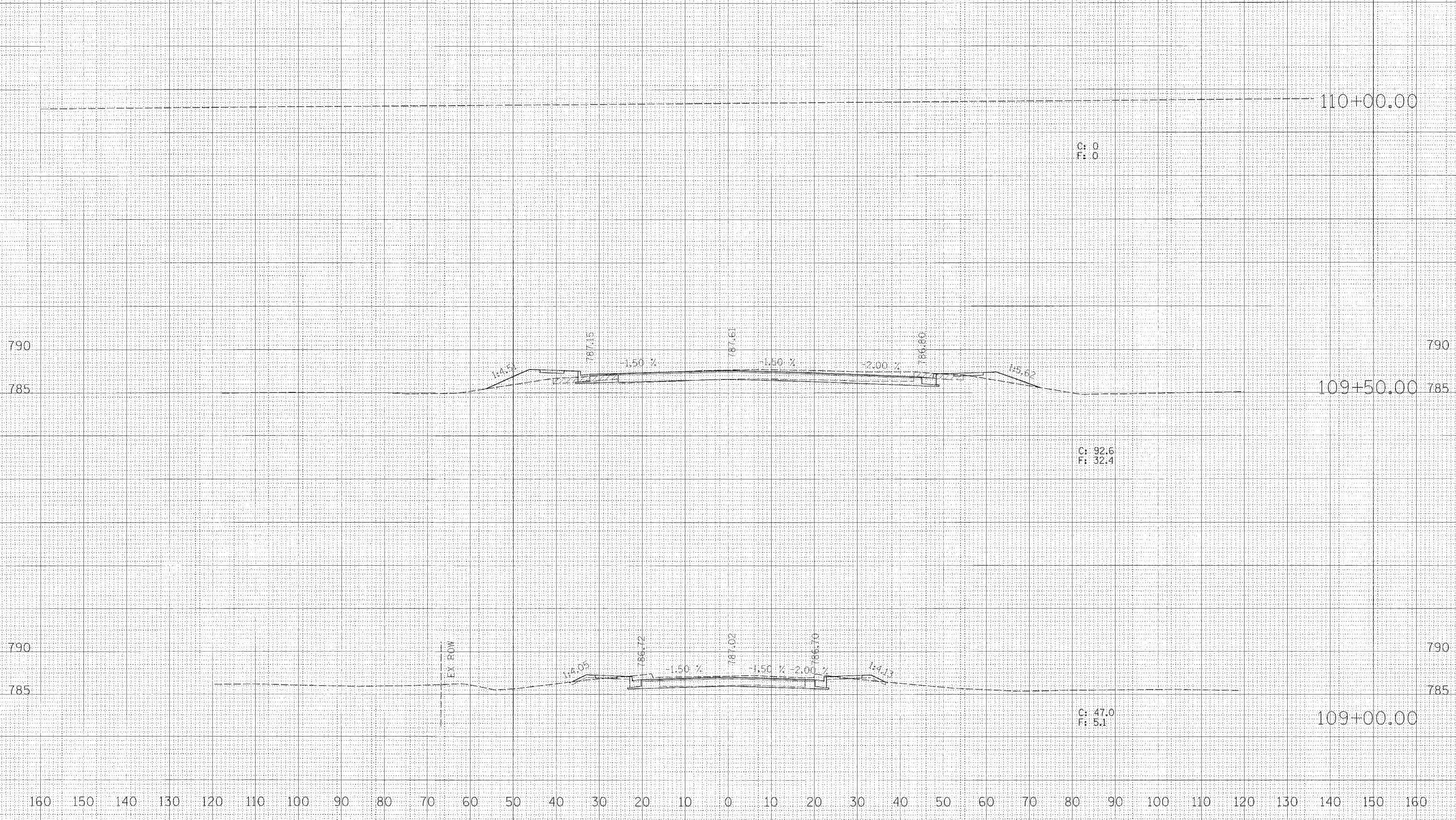
DATE	BY

SURVEYED
 PLOTTED
 TEMPLATE
 NO. BOOK
 NO. AREAS CHECKED

DATE	BY

ORIGINAL
 SUPPLY
 NO. BOOK
 NO. AREAS CHECKED

PLOT DATE = 8DATE
 FILE NAME = 8PFILES
 PLOT SCALE = 8SCALE
 REFERENCE = 8REF



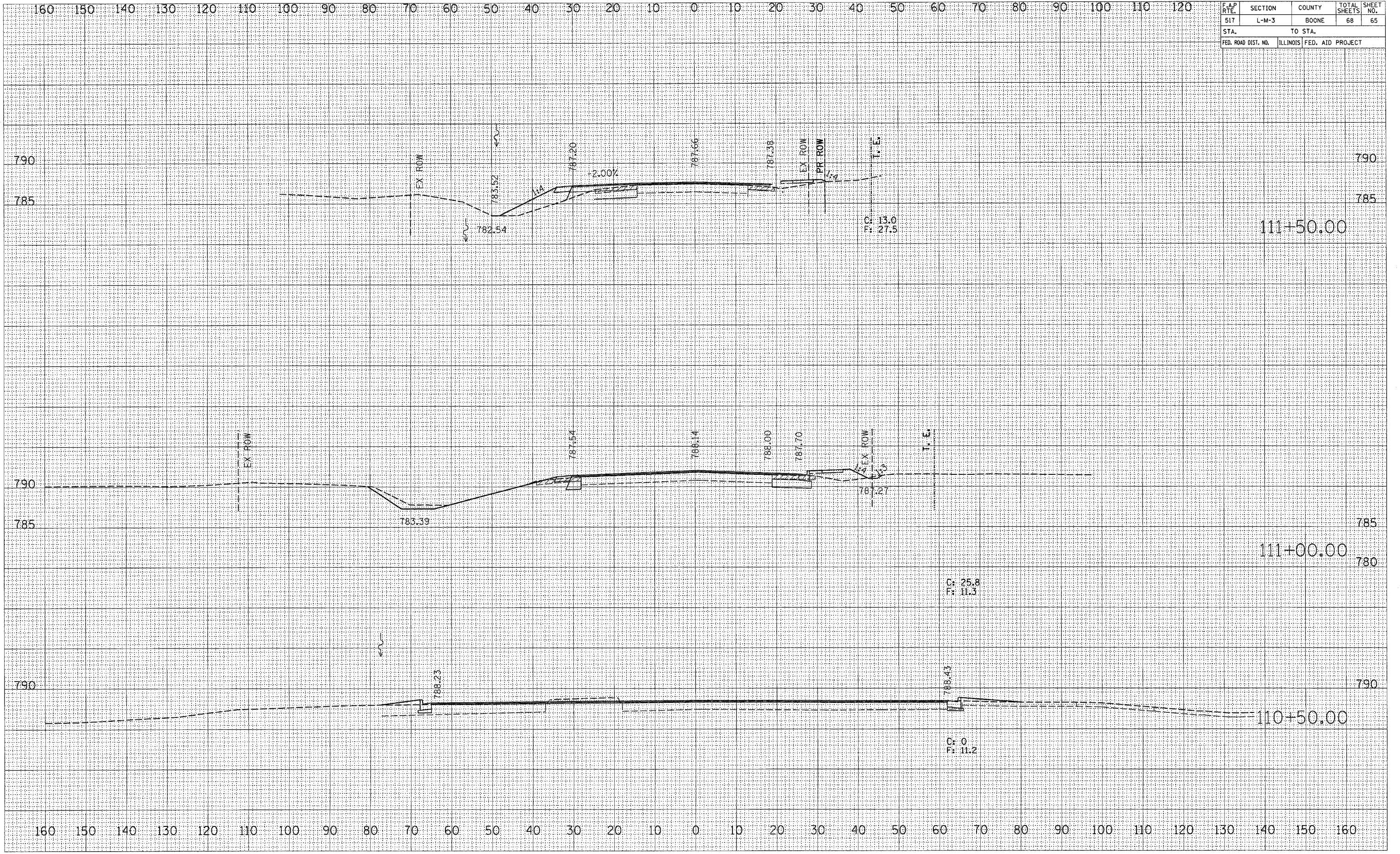
BONUS AVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	65
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY

DATE	BY

PLOT DATE = F11 Oct 21 16:16:55 2005
 FILE NAME = P:\BONUS STU\2005\BONUS.dwg
 PLOT SCALE = 1" = 40' / 1" = 40'
 REFERENCE = NREF



111+50.00

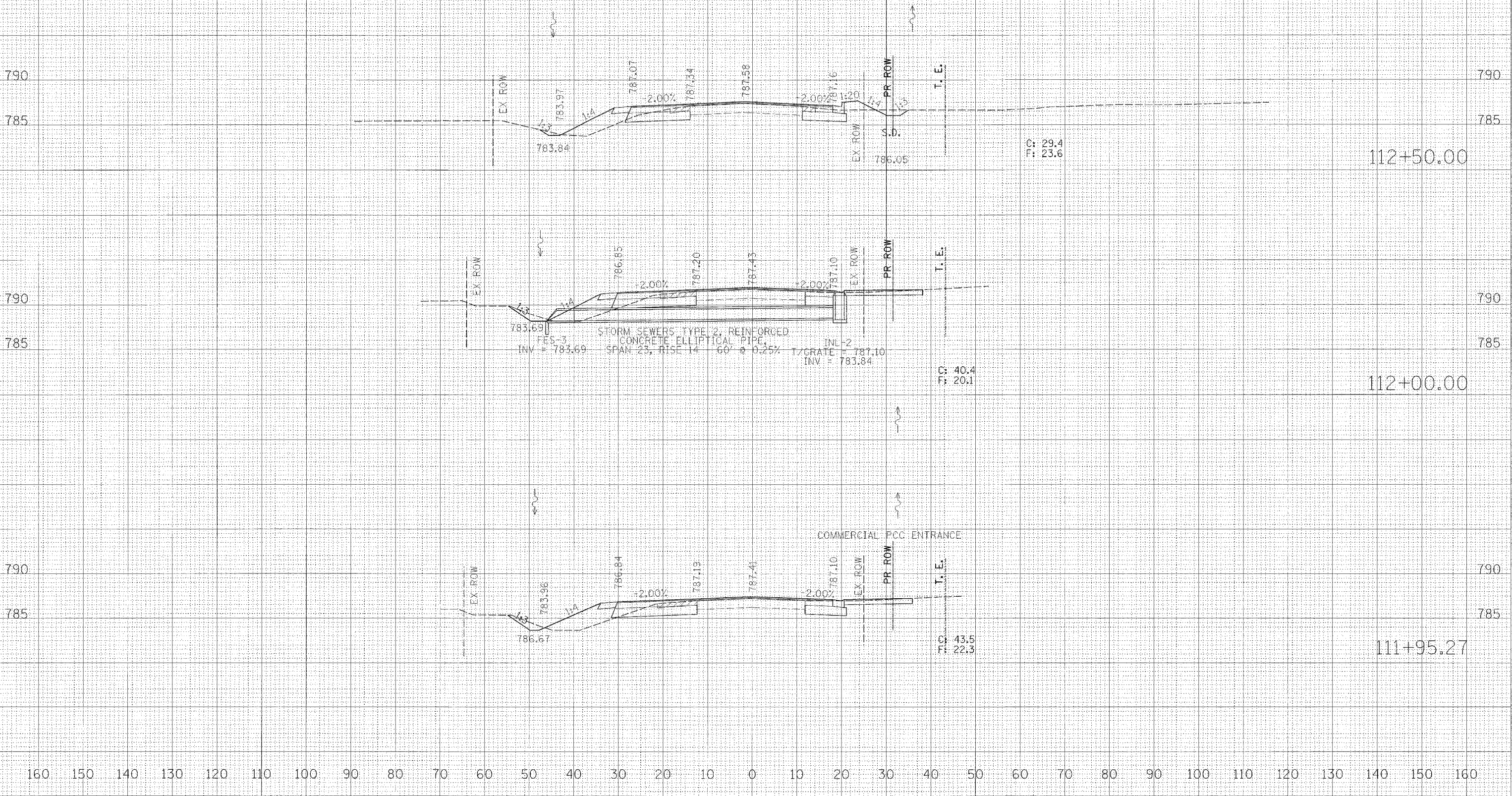
111+00.00

110+50.00

BONUS AVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	66
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



FINAL SURVEY SURVEYED PLOTTED CHECKED
 NOTE BOOK NO. AREAS CHECKED

ORIGINAL SURVEY SURVEYED PLOTTED CHECKED
 NOTE BOOK NO. AREAS CHECKED

PLOT DATE = 04/05/05
 FILE NAME = 01111111
 PLOT SCALE = 1"=40'
 REFERENCE = 01111111

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

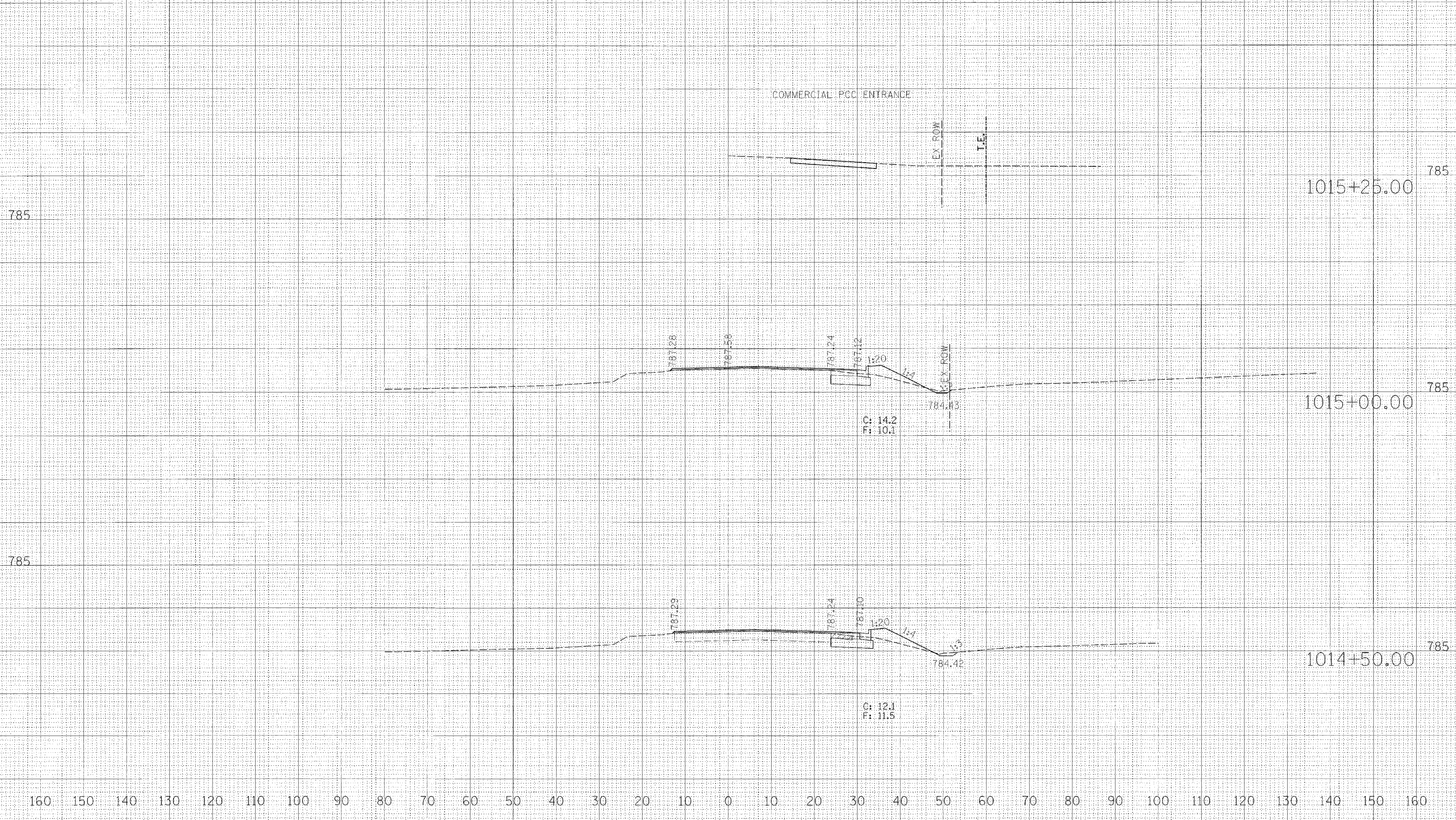
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	L-M-3	BOONE	68	68
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

FINAL SURVEY	DATE
BY	
NO.	

ORIGINAL SURVEY	DATE
BY	
NO.	

PLOT DATE = 10/31/2005
FILE NAME = 10/31/2005
REFERENCE =



MARENGO RD.