

PROJECT ENGINEER: REBECCA MARRUFFO

SQUAD LEADER: BRAD CUSHMAN (815)-284-5996

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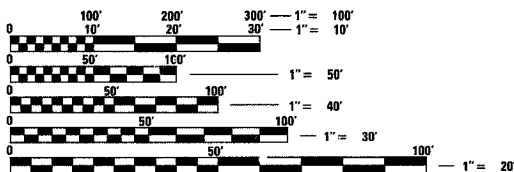
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DESIGN DESIGNATION

ILLINOIS ROUTE 251 50 MAJOR COLLECTOR



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

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

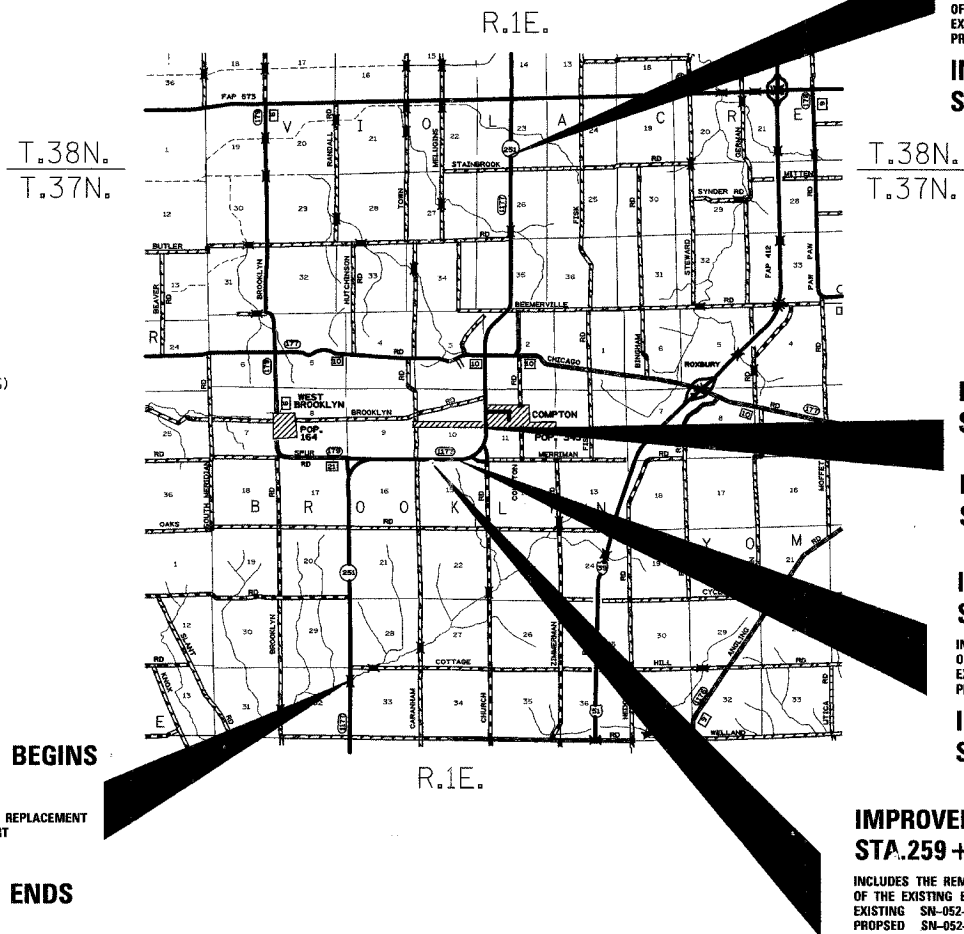
CONTRACT NO. 64C72

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAS ROUTE 1177 (IL 251)
SECTION (110,111)T
PROJECT RS-1177 (111)
LEE COUNTY

C-92-026-08



BROOKLYN TOWNSHIP, SECTION 10,11,15,32,33
VIOLA TOWNSHIP, SECTION 23

GROSS LENGTH OF PROJECT = 50,300 LIN. FT. = 9.53 MILES
NET LENGTH OF PROJECT = 2,877 LIN. FT. = 0.54 MILES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	1

D-92-001-07



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Feb. 26, 2008
Deane F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
May 9, 2008
Eric E. Harnett
SENIOR ENGINEER OF DESIGN AND ENVIRONMENT
May 9, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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SUMMARY OF QUANTITIES

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	0110,1111T	LEE	59	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	80% FED. 20% STATE Y007 TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	335
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	67
20200100	EARTH EXCAVATION	CU YD	3,823
• 25000210	SEEDING, CLASS 2A	ACRE	2
• 25000310	SEEDING, CLASS 4	ACRE	1
• 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	270
• 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	270
• 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	270
• 25000750	MOWING	ACRE	3
• 25100115	MULCH, METHOD 2	ACRE	3
* 25100630	EROSION CONTROL BLANKET	SQ YD	1,697
* 25100900	TURF REINFORCEMENT MAT	SQ YD	179
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,500
28000300	TEMPORARY DITCH CHECKS	EACH	71
28000400	PERIMETER EROSION BARRIER	FOOT	150
28000500	INLET AND PIPE PROTECTION	EACH	7
28100107	STONE RIPRAP, CLASS A4	SQ YD	222
28200200	FILTER FABRIC	SQ YD	222
35101400	AGGREGATE BASE COURSE, TYPE B	TON	283
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	16
44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	962
45100100	CRACK ROUTING (PAVEMENT)	FOOT	31,962
45100200	CRACK FILLING	POUND	12,785
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1,156

*SPECIALTY ITEMS 100% STATE

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SUMMARY OF QUANTITIES

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	1110,1117	LEE	59	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITES

CODE NUMBER	ITEM	UNIT	BOX FED. 20% STATE Y007 TOTAL QUANTITY
50100300	REMOVAL OF EXISTING STRUCTURES NO.1	EACH	1
50100400	REMOVAL OF EXISTING STRUCTURES NO.2	EACH	1
50100500	REMOVAL OF EXISTING STRUCTURES NO.3	EACH	1
50100600	REMOVAL OF EXISTING STRUCTURES NO.4	EACH	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	3
50300225	CONCRETE STRUCTURES	CU YD	15
50800105	REINFORCEMENT BARS	POUND	3290
51500100	NAME PLATES	EACH	4
54001001	BOX CULVERT END SECTION, CULVERT NO.1	EACH	2
54001002	BOX CULVERT END SECTION, CULVERT NO.2	EACH	1
54001003	BOX CULVERT END SECTION, CULVERT NO.3	EACH	4
54010604	PRECAST CONCRETE BOX CULVERT 6' X 4'	FOOT	98
54010804	PRECAST CONCRETE BOX CULVERT 8' X 4'	FOOT	98
54011005	PRECAST CONCRETE BOX CULVERT 10' X 5'	FOOT	63
54205917	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL, EQUIVALENT ROUND-SIZE 42"	FOOT	112
54207609	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE-ARCH, EQUIVALENT ROUND-SIZE 54"	FOOT	198
54215157	STEEL END SECTIONS, EQUIVALENT ROUND-SIZE 42"	EACH	4
54213450	END SECTIONS 15"	EACH	2
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	68
60100925	PIPE DRAINS 8"	FOOT	50
60100945	PIPE DRAINS 12"	FOOT	20
60100955	PIPE DRAINS 15"	FOOT	60
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	400

*SPECIALTY ITEMS

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SUMMARY OF QUANTITIES

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES				80% FED - 20% STATE Y007
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	
61101020	STORM SEWERS PROTECTED, CLASS A, 18"	FOOT	160	
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	4	
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	2	
63200310	GUARDRAIL REMOVAL	FOOT	1324	
63500105	DELINEATORS	EACH	8	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	32	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	8	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	
67100100	MOBILIZATION	L SUM	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	47172	
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	32	
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	68	
* A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	41	
X0323660	DROP BOX NO.1	EACH	1	
X0323661	DROP BOX NO.2	EACH	1	
X0323662	DROP BOX NO.3	EACH	1	
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	
X0712400	TEMPORARY PAVEMENT	SQ YD	196	
Z0005400	BREAKER-RUN CRUSHED STONE	TON	900	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	
Z0023600	FILLING EXISTING CULVERTS	EACH	1	

*SPECIALTY ITEMS

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1177 (IL 251)	(110, 111)T	Lee	59	5
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract # 64C72				

See cross sections for special ditches and backslopes.

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 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A 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.

Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to Section 502.10 of the Standard Specifications, except that the material shall conform to Article 208.02 of the Standard Specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The entire excavation, within 2 feet outside of each shoulder, shall be backfilled with trench backfill material to the bottom of the proposed subgrade. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for the class of concrete involved or other unit price item of the work for which it is required.

Cost of removal and disposal of material from the temporary patch shall be included in AGGREGATE BASE COURSE, TYPE B.

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

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The Engineer shall submit this information to the Survey Crew.

The new number for the structure at Sta. 28+64 will be 052-1104.
The new number for the structure at Sta. 261+58 will be 052-1103.
The new number for the structure at Sta. 277+15 will be 052-1102.
The new number for the structure at Sta. 528+47 will be 052-1101.

The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the contractor to control the ground water and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Precast Concrete Box Culverts.

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

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

Where field tile is encountered, storm sewer or pipe drain will be used in accordance with Section 611. The minimum size for replacement will be 150 mm (6") for Pipe Drains and 200 mm (8") for Storm Sewer, but the size must be at least 50 mm (2") larger than the adjoining tile. A Field Tile Junction Vault will be constructed at the right of way to connect the tile and storm sewer. See SOQ for estimated quantities.

Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The Engineer shall submit this information to the Survey Crew.

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

- 1. All words, such as ONLY, shall be 2.4 m (8 feet) high.
- 2. All non-freeway arrows shall be the large size.
- 3. 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.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 8 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on Highway Standard 667101.

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

Right-of-way markers will be erected with the back face of the marker on the right-of-way line unless the new right-of-way line has been surveyed and pinned, in which instance the right-of-way markers will be erected 300 mm (12 inches) inside the new right-of-way line.

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:

Commonwealth Edison Co. Verizon
NICOR Gas Co.

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.

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.

Layout of trees shall be performed by the District Landscape Architect.

Mulch shall be hardwood wood chips, 5 foot width, 4 inches thick, with weed barrier fabric.

Until exploratory trench is used to determine depth of existing field tile, the Contractor shall not have field tile junction vault constructed or ordered.

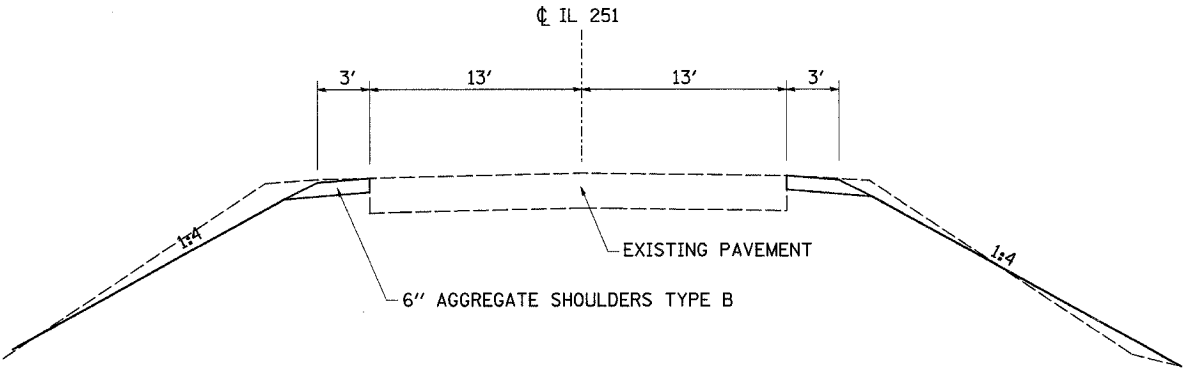
COMMITMENTS

- 1. If a crane will be required to construct any of the structures, then a maximum crane height of 100' shall be used. However, if a crane height or grater than this is necessary, coordination with the Federal Aviation Administration (FAA) will be required. If determined necessary, input from the Contractor will be necessary to complete the required paperwork and sign-off from FAA.
- 2. The culverts between Sta. 261+58 and Sta. 277+15 shall be completed one at a time to provide access to the local resident, unless some type of agreement is made between the property owner and Contractor.

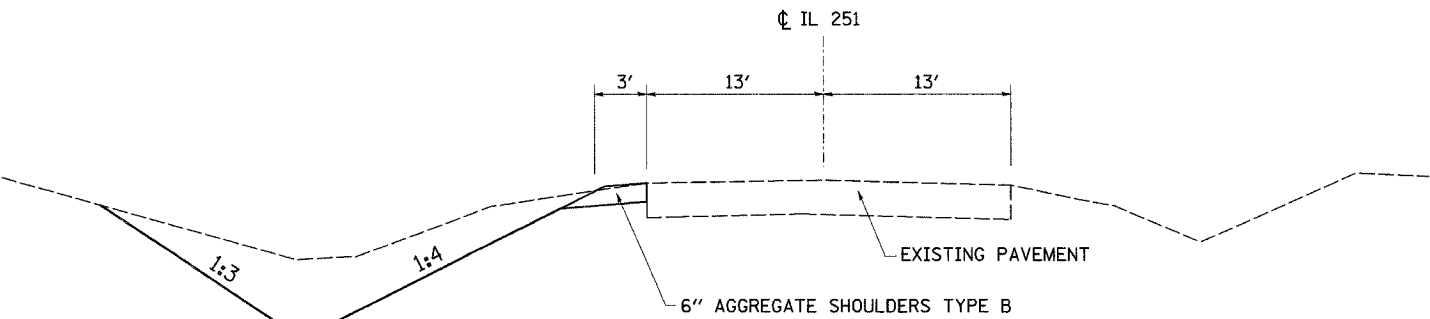
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPICAL SECTIONS

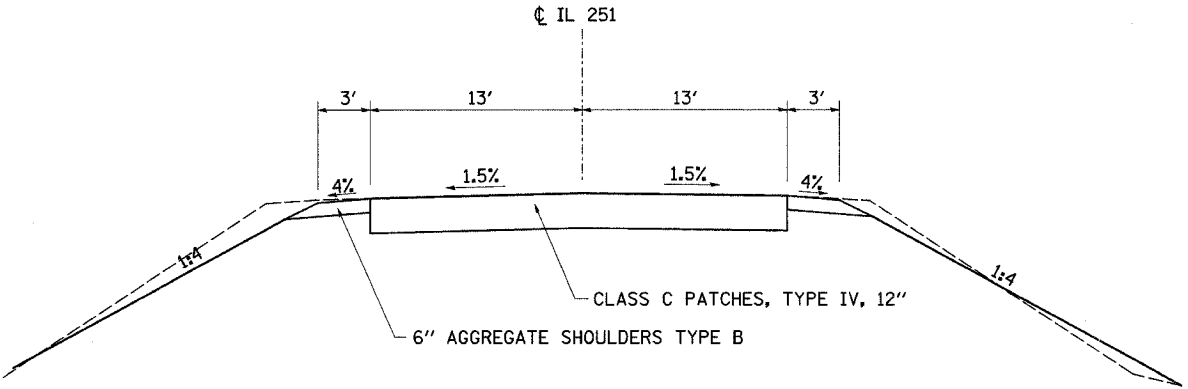
STA. 27+00 - STA. 28+34
STA. 28+94 - STA. 29+77
STA. 259+50 - STA. 261+17
STA. 261+99 - STA. 263+00
STA. 274+50 - STA. 276+63.69
STA. 277+66.03 - STA. 282+00
STA. 527+00 - STA. 530+00



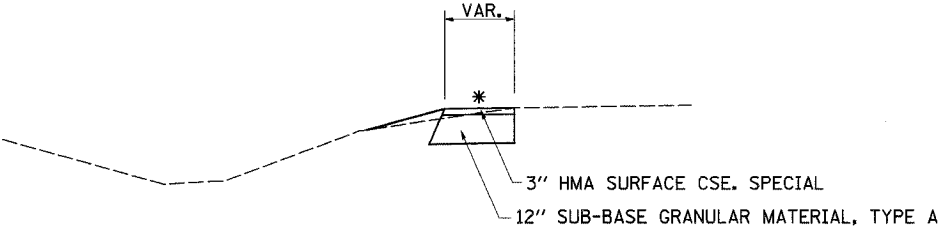
STA. 317+50 - STA. 329+00



STA. 28+34 - STA. 28+94
STA. 261+17 - STA. 261+99
STA. 276+63.69 - STA. 277+66.03
STA. 328+28.24 - STA. 328+44.24
STA. 528+13.50 - STA. 528+80.50

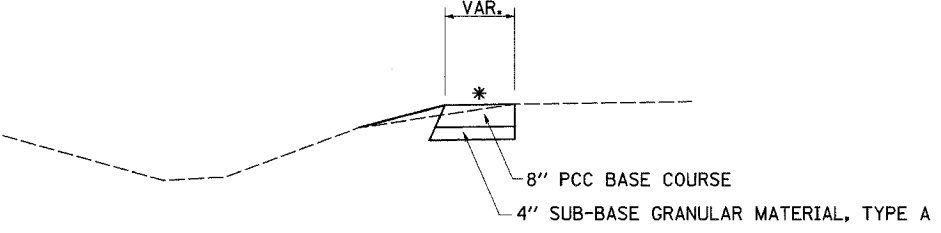


TEMPORARY PAVEMENT (ASPHALT OPTION)
US 30 / BROOKLYN RD.
SPUR RD.



* MATCH EXISTING CROSS SLOPE

TEMPORARY PAVEMENT (PCC OPTION)
US 30 / BROOKLYN RD.
SPUR RD.



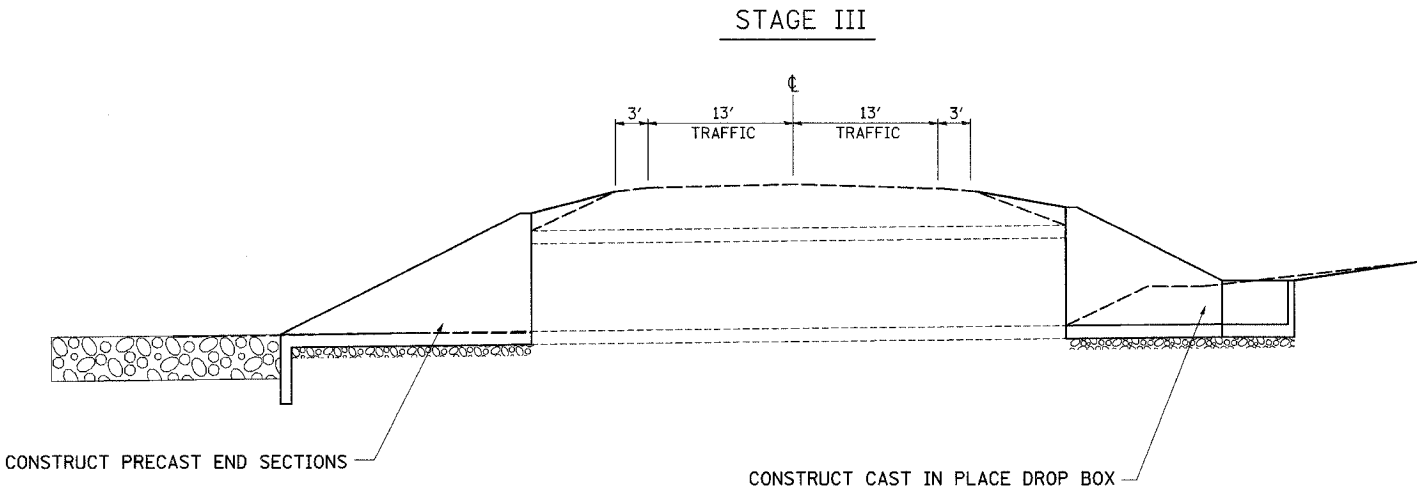
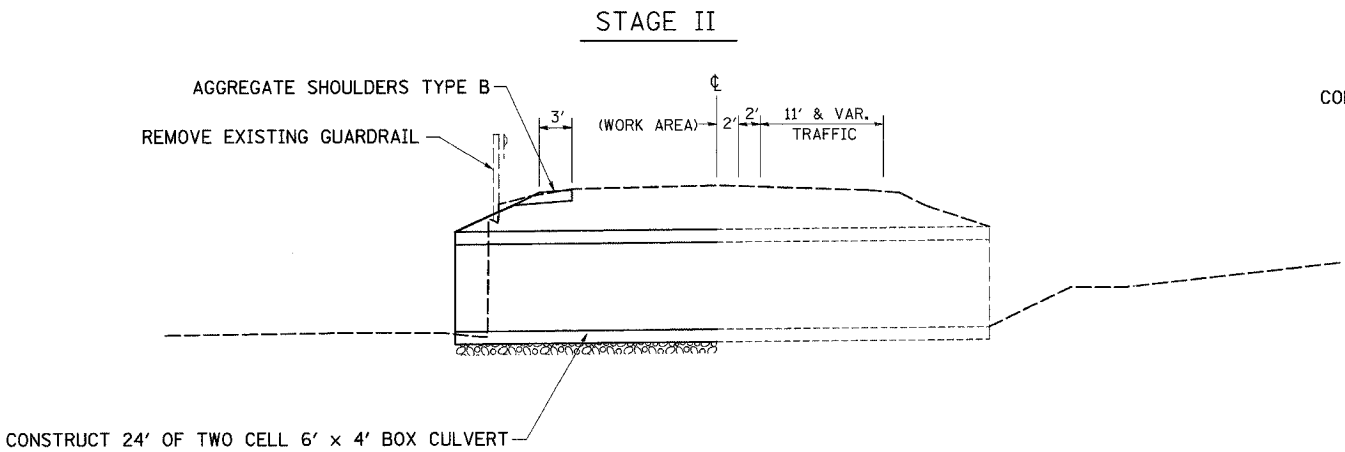
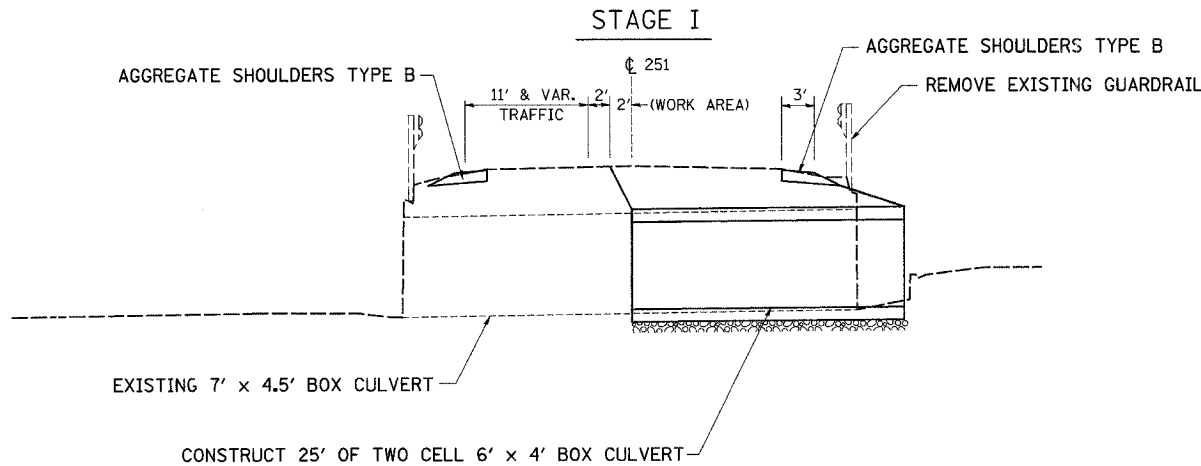
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1177	(110,111)T	LEE	59	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGING TYPICALS

CULVERT AT STA. 28 + 34

GENERAL NOTES:

1. CONSTRUCTION OF BOX CULVERT EXCEPT GRADING & SEEDING AT STA. 28+34 MUST BE COMPLETED DURING THE 21 DAY DETOUR OF THE OTHER CULVERTS IN THE PROJECT.
2. AGGREGATE SHOULDERS TYPE B SHALL BE PLACED AS A SAFETY SHOULDER DURING BOTH STAGE I AND II FOR TRAFFIC.
3. ONCE GUARDRAIL IS REMOVED BARRICADES WITH LIGHTS @ 50' CENTERS WILL BE USED ALONG THE SHOULDERS UNTIL END SECTIONS ARE COMPLETED.
4. ONCE STAGE I AND II ARE COMPLETED THE CLASS C PATCH MUST BE COMPLETED THE FOLLOWING DAY.
5. OVERNIGHT SIGNING SHALL CONSIST OF "ROAD CONSTRUCTION AHEAD", "LOOSE GRAVEL" W8-7(0)48 & 35 mph ADVISORY PLATE AT 500 FT SPACINGS WITH FLASHERS PLACED ON THE SIGNS.



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SCHEDULE OF QUANTITIES

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LOCATION	UNITS
STA 260+06 39' RT	12
STA 260+11 39' RT	12
STA 260+49 42' RT	8
STA 260+64 41' RT	13
STA 260+69 50' RT	7
STA 260+87 51' RT	9
STA 261+25 52' RT	7
STA 261+25 57' RT	7
STA 261+39 70' RT	11
STA 261+94 65' RT	7
STA 262+06 65' RT	7
STA 262+16 65' RT	13
STA 262+20 58' RT	12
STA 262+20 50' RT	12
STA 262+23 45' RT	6
STA 262+23 50' RT	11
STA 277+55 59' RT	8
STA 277+60 68' RT	12
STA 277+70 71' RT	12
STA 277+79 46' RT	7
STA 278+22 63' RT	6
STA 278+43 57' RT	9
STA 278+60 59' RT	6
STA 278+64 58' RT	6
STA 278+77 64' RT	7
STA 278+86 68' RT	12
STA 326+03 57' LT	7
STA 326+04 57' LT	8
STA 326+05 56' LT	8
STA 326+10 59' LT	9
STA 326+10 49' LT	8
STA 326+10 50' LT	8
STA 326+10 50' LT	8
STA 326+10 50' LT	8
STA 326+10 50' LT	8
STA 326+10 50' LT	8
TOTAL	335

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION	UNITS
STA 277+00 32' RT	26
STA 278+22 55' RT	17
STA 325+41 56' RT	24
TOTAL	67

25000210 SEEDING, CLASS 2A

LOCATION	ACRE
STA 27+50 TO 529+50 LT	1.19
STA 27+50 TO 529+50 RT	0.81
TOTAL	2.00

25000310 SEEDING, CLASS 4

LOCATION	ACRE
STA 27+50 TO 529+50 LT	0.46
STA 27+50 TO 529+50 RT	0.54
TOTAL	1.00

25000400 NITROGEN FERTILIZER NUTRIENT

LOCATION	POUND
STA 27+50 TO 529+50 LT	148.50
STA 27+50 TO 529+50 RT	121.50
TOTAL	270

25000500 PHOSPHORUS FERTILIZER NUTRIENT

LOCATION	POUND
STA 27+50 TO 529+50 LT	148.50
STA 27+50 TO 529+50 RT	121.50
TOTAL	270

25000600 POTASSIUM FERTILIZER NUTRIENT

LOCATION	POUND
STA 27+50 TO 529+50 LT	148.50
STA 27+50 TO 529+50 RT	121.50
TOTAL	270

25000750 MOWING

LOCATION	ACRE
STA 27+50 TO 529+50 LT	1.65
STA 27+50 TO 529+50 RT	0.91
TOTAL	3.00

25100115 MULCH METHOD 2

LOCATION	ACRE
STA 27+50 TO 529+50 LT	1.65
STA 27+50 TO 529+50 RT	1.35
TOTAL	3.00

25100630 EROSION CONTROL BLANKET

LOCATION	SQ YD
STA 27+00 TO 28+50 LT&RT	133.00
STA 28+74 TO 29+50 LT	34.00
STA 259+50 TO 263+50 LT&RT	356.00
STA 274+50 TO 281+50 LT	311.00
STA 274+50 TO 277+43 RT	130.00
STA 317+50 TO 329+00 LT	511.00
STA 527+00 TO 529+50 RT	111.00
STA 527+50 TO 530+00 LT	111.00
TOTAL	1697.00

25100900 TURF REINFORCEMENT MAT

LOCATION	SQ YD
STA 28+64 RT	75
STA 261+52 LT	39
STA 277+15 LT	65
TOTAL	179

28000250 TEMPORARY EROSION CONTROL SEEDING

LOCATION	POUND
STA 27+50 TO 529+50 LT & RT	1500.00
TOTAL	1500.00

28000300 TEMPORARY DITCH CHECKS

LOCATION	EACH
STA 27+25 LT	1
STA 27+50 LT & RT	2
STA 27+75 LT	1
STA 28+00 LT & RT	2
STA 28+25 LT	1
STA 29+00 LT	1
STA 29+25 LT	1
STA 259+75 RT	1
STA 260+00 LT & RT	2
STA 260+25 RT	1
STA 260+50 LT & RT	2
STA 260+75 RT	1
STA 261+00 LT & RT	2
STA 261+25 RT	1
STA 261+75 RT	1
STA 262+00 LT & RT	2
STA 262+25 RT	1
STA 262+50 LT & RT	2
STA 262+75 RT	1
STA 263+00 LT & RT	2
STA 263+25 RT	1
STA 274+75 RT	1
STA 275+00 LT & RT	2
STA 275+25 RT	1
STA 275+50 LT & RT	2
STA 275+75 RT	1
STA 276+00 LT & RT	2
STA 276+25 RT	1
STA 276+50 LT & RT	2
STA 276+75 RT	1
STA 277+00 RT	1
STA 277+25 RT	1
STA 278+00 LT	1
STA 278+25 RT	1
STA 279+00 LT	1
STA 280+00 LT	1
STA 281+00 LT	1
STA 318+00 LT	1
STA 318+50 LT	1
STA 319+00 LT	1
STA 319+50 LT	1
STA 320+00 LT	1
STA 320+50 LT	1
STA 321+00 LT	1
STA 321+50 LT	1
STA 322+00 LT	1
STA 322+50 LT	1
STA 323+00 LT	1
STA 323+50 LT	1
STA 324+00 LT	1
STA 327+50 LT	1
STA 328+50 LT	1
STA 527+50 RT	1
STA 528+00 LT & RT	2
STA 529+00 LT & RT	2
STA 529+50 LT & RT	2
TOTAL	71

28000400 PERMETER EROSION BARRIER

LOCATION	FOOT
STA 259+50 TO 261+00 LT	150
TOTAL	150

28000500 INLET AND PIPE PROTECTION

LOCATION	EACH
STA 28+64 RT	1
STA 261+52 LT	1
STA 277+15 LT	1
STA 325+50 LT	1
STA 326+87 LT	1
STA 329+00 RT	1
STA 528+47 RT	1
TOTAL	7

28100107 STONE RIPRAP, CLASS A4

LOCATION	SQ YD
STA 28+64 LT	47
STA 261+52 RT	17
STA 277+15 RT	96
STA 528+47 LT	62
TOTAL	222

28200200 FILTER FABRIC

LOCATION	SQ YD
STA 28+64 LT	47
STA 261+52 RT	17
STA 277+15 RT	96
STA 528+47 LT	62
TOTAL	222

44201383 CLASS C PATCHES, TYPE IV, 12 INCH

LOCATION	SQ YD
STA 28+34 TO 28+94	179
STA 261+11 TO 261+93	237
STA 276+63.69 TO 277+66.0	298
STA 328+28.24 TO 328+44.2	46
STA 528+13.50 TO 528+80.5	202
TOTAL	962

45100100 CRACK ROUTING (PAVEMENT)

LOCATION	FOOT
DETOUR ROUTE / PER SPECIAL PROVISION	31962
TOTAL	31962

45100200 CRACK FILLING

LOCATION	POUND
DETOUR ROUTE / PER SPECIAL PROVISION	12785
TOTAL	12785

50100300 REMOVAL OF EXISTING STRUCTURES NO. 1

LOCATION	EACH
STA 28+64	1
TOTAL	1

50100400 REMOVAL OF EXISTING STRUCTURES NO. 2

LOCATION	EACH
STA 261+52	1
TOTAL	1

50100500 REMOVAL OF EXISTING STRUCTURES NO. 3

LOCATION	EACH
STA 277+15	1
TOTAL	1

50100600 REMOVAL OF EXISTING STRUCTURES NO. 4

LOCATION	EACH
STA 528+47	1
TOTAL	1

50104400 CONCRETE HEADWALL REMOVAL

LOCATION	EACH
STA 328+28.24 LT & RT	2
STA 276+90 LT	1
TOTAL	3

51500100 NAME PLATES

LOCATION	EACH
STA 28+64	1
STA 261+52	1
STA 277+15	1
STA 528+47	1
TOTAL	4

54001001 BOX CULVERT END SECTION, CULVERT NO. 1

LOCATION	EACH
STA 28+64 LT	2
TOTAL	2

54001002 BOX CULVERT END SECTION, CULVERT NO. 2

LOCATION	EACH
STA 261+52 RT	1
TOTAL	1

SCHEDULE OF QUANTITIES

SCHEDULE OF QUANTITIES

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

54001003	BOX CULVERT END SECTION, CULVERT NO. 3 LOCATION STA 528+47 LT & RT	EACH	
		4	
	TOTAL	4	
54010604	PRECAST CONCRETE BOX CULVERT 6' X 4' LOCATION STA 28+64	EQOI	
		98	
	TOTAL	98	
54010804	PRECAST CONCRETE BOX CULVERT 8' X 4' LOCATION STA 528+47	EQOI	
		98	
	TOTAL	98	
54011005	PRECAST CONCRETE BOX CULVERT 10' X 5' LOCATION STA 261+52	EQOI	
		63	
	TOTAL	63	
54205917	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL, EQUIVALENT ROUND-SIZE 42" LOCATION STA 325+10 LT STA 326+50 LT	EQOI	
		112	
	TOTAL	112	
54207609	PIPE CULVERTS, TYE 1, REINFORCED CONCRETE, ARCH, EQUIVALENT ROUND-SIZE 54" LOCATION STA 277+15	EQOI	
		198	
	TOTAL	198	
542D0220	PIPE CULVERTS, CLASS D, TYE 1 18' LOCATION STA 328+60 31' RT	EQOI	
		68	
	TOTAL	68	
54213450	END SECTIONS 15" LOCATION STA 328+58 LT & RT	EACH	
		2	
	TOTAL	2	
54215157	STEEL END SECTIONS, EQUIVALENT ROUND-SIZE 42" LOCATION STA 325+10 LT STA 326+50 LT	EACH	
		4	
	TOTAL	4	
60100925	PIPE DRAINS 8" LOCATION STA 261+52 LT	EQOI	
		50	
	TOTAL	50	
60100945	PIPE DRAINS 12" LOCATION STA 277+15 LT	EQOI	
		20	
	TOTAL	20	
60100955	PIPE DRAINS 15" LOCATION STA 261+52 LT	EQOI	
		60	
	TOTAL	60	
61100500	EXPLORATION TRENCH 52" DEPTH LOCATION STA 28+64 LT & RT STA 261+52 LT STA 276+90 LT	EQOI	
		400	
	TOTAL	400	
61101020	STORM SEWERS PROTECTED, CLASS A, 18" LOCATION STA 28+64 LT & RT	EQOI	
		160	
	TOTAL	160	
61133100	FIELD TILE JUNCTION VALTS 2' DIA. LOCATION STA 261+52 LT STA 276+90 LT	EACH	
		4	
	TOTAL	4	
61133200	FIELD TILE JUNCTION VALTS 3' DIA. LOCATION STA 28+64 LT & RT	EACH	
		2	
	TOTAL	2	

63200310	GUARDRAIL REMOVAL LOCATION STA 28+00.85 TO 29+28.46 LT STA 28+00.53 TO 29+15.53 RT STA 260+03.75 TO 262+68.6 RT STA 260+47.10 TO 263+12.7 LT STA 275+72.66 TO 278+47.81 RT STA 275+78.94 TO 278+54.3 LT	EQOI	
		1323.71	
	TOTAL	1323.71	
63500105	DELINEATORS LOCATION STA 28+64 LT & RT STA 261+52 LT & RT STA 277+15 LT & RT STA 528+47 LT & RT	EACH	
		8	
	TOTAL	8	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY-MARKERS LOCATION STA 27+25 40' LT STA 27+50 40' RT STA 28+35 75' RT STA 28+40 85' LT STA 28+80 85' LT STA 28+90 75' RT STA 29+25 40' RT STA 29+40 40' LT STA 259+25 39.83' LT STA 259+50 40' RT STA 260+00 55' LT STA 261+25 80' RT STA 261+75 60' LT STA 262+20 80' RT STA 262+20 40' LT STA 263+30 40' RT STA 275+35 40' RT STA 277+50 90' RT STA 279+00 90' RT STA 279+40 40' RT STA 323+25 60' LT STA 324+50 75' LT STA 325+50 75' LT STA 328+50 40' LT STA 527+00 40' LT & RT STA 527+90 60' RT STA 528+30 80' LT STA 528+85 80' LT STA 529+10 60' RT STA 529+75 40' LT & RT	EACH	
		32	
	TOTAL	32	
78001110	PAINT PAVEMENT MARKING - LINE 4" LOCATION STA 28+34 TO 28+94 WHITE EOP (2 Apl.) STA 28+34 TO 28+94 YELLOW SKIP DASH (2 Apl.) STA 261+11 TO 261+93 WHITE EOP (2 Apl.) STA 261+11 TO 261+93 YELLOW SKIP DASH (2 Apl.) STA 276+63.69 TO 277+66.0 WHITE EOP (2 Apl.) STA 276+63.69 TO 277+66.0 YELLOW SKIP DASH (2 Apl.) STA 328+28.24 TO 328+44.2 WHITE EOP (2 Apl.) STA 328+28.24 TO 328+44.2 WHITE SKIP DASH (2 Apl.) STA 528+13.50 TO 528+80.5 WHITE EOP (2 Apl.) STA 528+13.50 TO 528+80.5 YELLOW SKIP DASH (2 Apl.) STA 1198+69.65 TO 1999+66.7 YELLOW ISLAND (2 Apl.) DETOUR ROUTE / PER SPECIAL PROVISION	EQOI	
		47172	
	TOTAL	47172	
78001150	PAINT PAVEMENT MARKING - LINE 12" LOCATION STA 1198+69.65 TO 1999+66.7 YELLOW ISLAND (2 Apl.)	EQOI	
		32	
	TOTAL	32	
78001180	PAINT PAVEMENT MARKING - LINE 24" LOCATION STA 28+34 WHITE STOP BAR (2 Apl.) STA 28+34 WHITE STOP BAR (2 Apl.)	EQOI	
		68	
	TOTAL	68	
X0323660	DROP BOX NO.1 LOCATION STA 28+64 RT	EACH	
		1	
	TOTAL	1	
X0323661	DROP BOX NO2 LOCATION STA 261+52 LT	EACH	
		1	
	TOTAL	1	

X0323662	DROP BOX NO3 LOCATION STA 277+15 LT	EACH	
		1	
	TOTAL	1	
Z0023600	FILLING EXISTING CULVERTS LOCATION STA 328+36.24	EACH	
		1	
	TOTAL	1	

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AGGREGATE /EARTHWORK SCHEDULE

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	

LOCATION			REMARKS	WIDTH	AREA	Z0005400		48101200	40800050	35101400	X0712400
						BREAKER RUN CRUSHED STONE		AGGREGATE SHOULDERS TYPE B	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE BASE COURSE TYPE B	TEMPORARY PAVEMENT
				FOOT	SQ FT	INCHES	TON	TON	TON	TON	SQ YD
IL 251											
Lt Sta	27+00 - 29+77		Agg. Shoulder		831			31.5			
Rt Sta	27+00 - 29+20		Agg. Shoulder		440			16.7			
Lt & Rt. Sta	259+50 - 263+50		Agg. Shoulder		2400			91.1			
Lt & Rt. Sta	274+50 - 282+00		Agg. Shoulder		4500			170.8			
Lt & Rt Sta	527+00 - 530+00		Agg. Shoulder		900			34.2			
Lt Sta	317+50 - 329+00		Agg. Shoulder		3450			131.0			
Culvert	261	+	52		1701	36"	387.5				
Culvert	277	+	15		2399	12"	182.1				
Culvert	528	+	47		2177	24"	330.6				
FE	325	+	10	24'	1895					95.9	
FE	326	+	50	24'	1620					82.0	
PE	328	+	58	24'	1042				16.2	52.7	
FE	529	+	70	24'	1038					52.5	
Lt Sta	27+00 - 29+77		STAGE 1		831			31.5			
Rt Sta	27+00 - 29+20		STAGE 2		440			16.7			
Detour Maintenance		+	Agg. Shoulder		50000			632.7			
US 30 / Brooklyn Rd.		+			1053						117.0
Spur Rd.		+			711						79.0
			Total		60807		900	1156	16	283	196

	20200100			
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)
	27+00.00 TO 29+77.00	270.6	203.0	77.2
259+50.00 TO 263+50.00	489.2	366.9	515.6	-148.7
274+50.00 TO 282+00.00	1012.7	759.5	573.8	185.7
317+50.00 TO 329+00.00	1633.7	1225.3	42.5	1182.8
527+00.00 TO 530+00.00	416.7	312.5	162.3	150.2
TOTALS	3822.9	2867.2	1371.4	1495.8

HORIZONTAL & VERTICAL CONTROL

CONTRACT NO. 64C72

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Chain IL251 contains:
130 CUR 200 CUR 210 CUR 220 CUR 230 156 CUR 240 250 CUR 260 CUR 270 CUR 280 CU-
R 290 CUR 300 CUR 310 CUR 320 CUR 330 155

Beginning chain IL251 description
=====

Point 130 N 1,784,141.6159 E 2,580,865.7192 Sta 2392+01.92

Course from 130 to PC 200 N 2° 16' 26.2430" W Dist 1,229.6253'

Curve Data

Curve 200
P.I. Station 2406+34.73 N 1,785,573.2911 E 2,580,808.8690
Delta = 1° 26' 36.9611" (RT)
Degree = 0° 21' 18.9850"
Tangent = 203.1781'
Length = 406.3348'
Radius = 16,127.2262'
External = 1.2798'
Long Chord = 406.3240'
Mid. Ord. = 1.2797'
P.C. Station 2404+31.55 N 1,785,370.2729 E 2,580,816.9306
P.T. Station 2408+37.88 N 1,785,776.4479 E 2,580,805.9245
C.C. N 1,786,010.1627 E 2,596,931.4571

Course from PT 200 to PC 210 N 0° 49' 49.2819" W Dist 1,177.7581'

Curve Data

Curve 210
P.I. Station 2425+19.29 N 1,787,457.6801 E 2,580,781.5577
Delta = 0° 32' 15.2058" (LT)
Degree = 0° 03' 12.1193"
Tangent = 503.6507'
Length = 1,007.2940'
Radius = 107,362.8993'
External = 1.1813'
Long Chord = 1,007.2903'
Mid. Ord. = 1.1813'
P.C. Station 2420+15.64 N 1,786,954.0823 E 2,580,788.8565
P.T. Station 2430+22.94 N 1,787,961.1873 E 2,580,769.5344
C.C. N 1,785,398.1856 E 2,473,437.2318

Course from PT 210 to PC 220 N 1° 22' 04.4876" W Dist 7,235.3461'

Curve Data

Curve 220
P.I. Station 2506+88.17 N 1,795,624.2346 E 2,580,586.5475
Delta = 0° 10' 56.1293" (LT)
Degree = 0° 01' 16.3145"
Tangent = 429.8857'
Length = 859.7707'
Radius = 270,282.7586'
External = 0.3419'
Long Chord = 859.7703'
Mid. Ord. = 0.3419'
P.C. Station 2502+58.28 N 1,795,194.4714 E 2,580,596.8098
P.T. Station 2511+18.05 N 1,796,053.9630 E 2,580,574.9181
C.C. N 1,788,742.1944 E 2,310,391.0777

Course from PT 220 to PC 230 N 1° 33' 00.6169" W Dist 12,011.0225'

Curve Data

Curve 230
P.I. Station 2633+84.55 N 1,808,315.9672 E 2,580,243.0813
Delta = 6° 21' 34.4980" (LT)
Degree = 1° 14' 45.4472"
Tangent = 255.4710'
Length = 510.4173'
Radius = 4,598.5339'
External = 7.0909'
Long Chord = 510.1553'
Mid. Ord. = 7.0799'
P.C. Station 2631+29.08 N 1,808,060.5897 E 2,580,249.9924
P.T. Station 2636+39.49 N 1,808,569.0077 E 2,580,207.9251
C.C. N 1,807,936.1889 E 2,575,653.1415

Course from PT 230 to 156 N 7° 54' 35.1149" W Dist 96.5072'

Equation: Sta 2637+36.00 (BK) = Sta 0+00.00 (AH) -----
End Region 1
Begin Region 2

Point 156 N 1,808,664.5967 E 2,580,194.6445 Sta 0+00.00

Course from 156 to PC 240 N 7° 54' 35.1149" W Dist 90.3137'

Curve Data

Curve 240
P.I. Station 3+34.24 N 1,808,995.6571 E 2,580,148.6486
Delta = 6° 55' 19.6850" (RT)
Degree = 1° 25' 14.2501"
Tangent = 243.9267'
Length = 487.2598'
Radius = 4,033.1388'
External = 7.3697'
Long Chord = 486.9635'
Mid. Ord. = 7.3562'
P.C. Station 0+90.31 N 1,808,754.0512 E 2,580,182.2161
P.T. Station 5+77.57 N 1,809,239.5476 E 2,580,144.4442
C.C. N 1,809,309.0642 E 2,584,176.9838

Course from PT 240 to 250 N 0° 59' 15.4299" W Dist 14,935.3643'

Point 250 N 1,824,172.6931 E 2,579,887.0129 Sta 155+12.94

Course from 250 to PC 260 N 1° 08' 32.8178" W Dist 3,621.0369'

Curve Data

Curve 260
P.I. Station 211+07.75 N 1,829,766.3886 E 2,579,775.4626
Delta = 91° 53' 57.3704" (RT)
Degree = 3° 00' 02.5740"
Tangent = 1,973.7709'
Length = 3,062.5791'
Radius = 1,909.4042'
External = 836.7924'
Long Chord = 2,744.6880'
Mid. Ord. = 581.8137'
P.C. Station 191+33.97 N 1,827,793.0101 E 2,579,814.8160
P.T. Station 221+96.55 N 1,829,740.3178 E 2,581,749.0613
C.C. N 1,827,831.0802 E 2,581,723.8407

Course from PT 260 to PC 270 S 89° 14' 35.4475" E Dist 1,975.2561'

Curve Data

Curve 270
P.I. Station 251+88.69 N 1,829,700.7958 E 2,584,740.9385
Delta = 0° 28' 52.3973" (LT)
Degree = 0° 01' 25.1823"
Tangent = 1,016.8821'
Length = 2,033.7522'
Radius = 242,145.0908'
External = 2.1352'
Long Chord = 2,033.7462'
Mid. Ord. = 2.1352'
P.C. Station 241+71.81 N 1,829,714.2274 E 2,583,724.1451
P.T. Station 262+05.56 N 1,829,695.9045 E 2,585,757.8088
C.C. N 2,071,838.1941 E 2,586,922.5474

Course from PT 270 to PC 280 S 89° 43' 27.8448" E Dist 2,599.6564'

Curve Data

Curve 280
P.I. Station 307+60.73 N 1,829,673.9938 E 2,590,312.9276
Delta = 91° 16' 07.0805" (LT)
Degree = 2° 59' 44.0230"
Tangent = 1,955.5152'
Length = 3,046.7951'
Radius = 1,912.6889'
External = 822.7121'
Long Chord = 2,734.7304'
Mid. Ord. = 575.2693'
P.C. Station 288+05.22 N 1,829,683.4000 E 2,588,357.4351
P.T. Station 318+52.01 N 1,831,629.2152 E 2,590,279.0368
C.C. N 1,831,596.0667 E 2,588,366.6352

Course from PT 280 to PC 290 N 0° 59' 34.9253" W Dist 2,617.6359'

Curve Data

Curve 290
P.I. Station 349+69.65 N 1,834,746.3829 E 2,590,225.0055
Delta = 0° 17' 02.5555" (LT)
Degree = 0° 01' 42.2558"
Tangent = 500.0000'
Length = 999.9980'
Radius = 201,714.6059'
External = 0.6197'
Long Chord = 999.9969'
Mid. Ord. = 0.6197'
P.C. Station 344+69.65 N 1,834,246.4580 E 2,590,233.6710
P.T. Station 354+69.65 N 1,835,246.2587 E 2,590,213.8618
C.C. N 1,830,750.5706 E 2,388,549.3607

Course from PT 290 to PC 300 N 1° 16' 37.4808" W Dist 3,043.5156'

Curve Data

Curve 300
P.I. Station 395+49.92 N 1,839,325.5218 E 2,590,122.9232
Delta = 56° 50' 56.2373" (RT)
Degree = 2° 59' 28.2362"
Tangent = 1,036.7610'
Length = 1,900.5549'
Radius = 1,915.4930'
External = 262.5765'
Long Chord = 1,823.5491'
Mid. Ord. = 230.9217'
P.C. Station 385+13.16 N 1,838,289.0184 E 2,590,146.0299
P.T. Station 404+13.72 N 1,839,911.6774 E 2,590,978.0811
C.C. N 1,838,331.7097 E 2,592,061.0470

Course from PT 300 to PC 310 N 55° 34' 18.7565" E Dist 486.5268'

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HORIZONTAL & VERTICAL CONTROL

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Curve Data
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Curve 310
P.I. Station 419+23.61 N 1,840,765.3288 E 2,592,223.4957
Delta = 56° 09' 07.4459" (LT)
Degree = 2° 59' 11.2103"
Tangent = 1,023.3666'
Length = 1,880.2297'
Radius = 1,918.5264'
External = 255.8753'
Long Chord = 1,805.8815'
Mid. Ord. = 225.7649'
P.C. Station 409+00.24 N 1,840,186.7460 E 2,591,379.3860
P.T. Station 427+80.47 N 1,841,788.6430 E 2,592,213.1330
C.C. N 1,841,769.2158 E 2,590,294.7050

Course from PT 310 to PC 320 N 0° 34' 48.6894" W Dist 29,889.8324'

Curve Data
-----*

Curve 320
P.I. Station 731+18.10 N 1,872,124.7150 E 2,591,905.9318
Delta = 1° 49' 13.9506" (RT)
Degree = 0° 12' 11.8642"
Tangent = 447.7950'
Length = 895.5146'
Radius = 28,183.4827'
External = 3.5572'
Long Chord = 895.4770'
Mid. Ord. = 3.5567'
P.C. Station 726+70.31 N 1,871,676.9429 E 2,591,910.4662
P.T. Station 735+65.82 N 1,872,572.4050 E 2,591,915.6250
C.C. N 1,871,962.3311 E 2,620,092.5039

Course from PT 320 to PC 330 N 1° 14' 25.2612" E Dist 161.0380'

Curve Data
-----*

Curve 330
P.I. Station 741+89.57 N 1,873,196.0030 E 2,591,929.1269
Delta = 1° 36' 49.4373" (LT)
Degree = 0° 10' 27.8091"
Tangent = 462.7061'
Length = 925.3510'
Radius = 32,854.7032'
External = 3.2581'
Long Chord = 925.3204'
Mid. Ord. = 3.2578'
P.C. Station 737+26.86 N 1,872,733.4053 E 2,591,919.1109
P.T. Station 746+52.21 N 1,873,658.6992 E 2,591,926.1116
C.C. N 1,873,444.5949 E 2,559,072.1060

Course from PT 330 to 155 N 0° 22' 24.1762" W Dist 10,642.7058'

Point 155 N 1,884,301.1790 E 2,591,856.7562 Sta 852+94.92

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Ending chain IL251 description

Chain BRKLYNRD contains:
1141 1200 1144

Beginning chain BRKLYNRD description
=====

Point 1141 N 1,851,054.46 E 2,573,568.82 Sta 1946+58.59

Course from 1141 to 1200 359° 22' 15.35" Dist 5,341.41'

Point 1200 N 1,856,395.55 E 2,573,510.18 Sta 2000+00.00

Course from 1200 to 1144 359° 20' 33.33" Dist 2,701.31'

Point 1144 N 1,859,096.68 E 2,573,479.18 Sta 2027+01.31

=====

Ending chain BRKLYNRD description

Chain S_SPUR contains:
360 CUR 370 1003 1140

Beginning chain S_SPUR description
=====

Point 360 N 1,829,549.21 E 2,580,890.86 Sta 1500+00.00

Course from 360 to PC 370 319° 08' 06.67" Dist 55.05'

Curve Data
-----*

Curve 370
P.I. Station 1502+65.80 N 1,829,750.22 E 2,580,716.96
Delta = 47° 37' 53.60" (LT)
Degree = 12° 00' 00.44"
Tangent = 210.74'
Length = 396.93'
Radius = 477.46'
External = 44.44'
Long Chord = 385.59'
Mid. Ord. = 40.66'
P.C. Station 1500+55.05 N 1,829,590.85 E 2,580,854.84
P.T. Station 1504+51.98 N 1,829,755.75 E 2,580,506.29
C.C. N 1,829,278.46 E 2,580,493.76

Course from PT 370 to 1003 271° 30' 13.07" Dist 731.45'

Point 1003 N 1,829,774.95 E 2,579,775.09 Sta 1511+83.43

Course from 1003 to 1140 270° 59' 52.67" Dist 4,265.85'

Point 1140 N 1,829,849.24 E 2,575,509.88 Sta 1554+49.29

=====

Ending chain S_SPUR description

Chain S_STUB contains:
CUR 380 CUR 1210 1220

Beginning chain S_STUB description
=====

Curve Data
-----*

Curve 380
P.I. Station 1000+53.26 N 1,828,196.15 E 2,579,805.97
Delta = 42° 14' 04.45" (RT)
Degree = 41° 32' 56.30"
Tangent = 53.26'
Length = 101.65'
Radius = 137.90'
External = 9.93'
Long Chord = 99.36'
Mid. Ord. = 9.26'
P.C. Station 1000+00.00 N 1,828,157.42 E 2,579,842.53
P.T. Station 1001+01.65 N 1,828,249.40 E 2,579,804.93
C.C. N 1,828,252.09 E 2,579,942.80

Course from PT 380 to PC 1210 358° 52' 46.14" Dist 862.72'

Curve Data
-----*

Curve 1210
P.I. Station 1012+51.24 N 1,829,398.77 E 2,579,782.45
Delta = 1° 09' 48.54" (RT)
Degree = 0° 12' 10.08"
Tangent = 286.87'
Length = 573.71'
Radius = 28,252.51'
External = 1.46'
Long Chord = 573.70'
Mid. Ord. = 1.46'
P.C. Station 1009+64.38 N 1,829,111.96 E 2,579,788.06
P.T. Station 1015+38.09 N 1,829,685.63 E 2,579,782.66
C.C. N 1,829,664.45 E 2,608,035.17

Course from PT 1210 to 1220 0° 02' 34.68" Dist 89.11'

Point 1220 N 1,829,774.74 E 2,579,782.73 Sta 1016+27.20

=====

Ending chain S_STUB description

Chain US30WEST contains:
1020521 10205200

Beginning chain US30WEST description
=====

Point 1020521 N 1,856,358.92 E 2,571,554.76 Sta 2922+77.23

Course from 1020521 to 10205200 88° 55' 36.16" Dist 20,509.97'

Point 10205200 N 1,856,743.10 E 2,592,061.13 Sta 3127+87.20

=====

Ending chain US30WEST description

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

HORIZONTAL & VERTICAL CONTROL

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
5	1811301.6834	2580088.4394	873.1553	IL251	26+40.3683	20.452' LT	GPS CONTROL POINT, PIN
6	1811581.9683	2580137.4946	869.5203	IL251	29+19.7660	33.426' RT	GPS CONTROL POINT, PIN
7	1829708.1773	2587099.3921	946.0568	IL251	275+47.0708	18.7258' LT	GPS CONTROL POINT, PIN
8	1829670.2071	2587447.8120	942.7474	IL251	278+95.6693	17.5681' RT	GPS CONTROL POINT, PIN
9	1851720.9463	2592129.7705	801.6018	IL251	527+13.1126	17.2171' RT	GPS CONTROL POINT, PIN
10	1851926.5510	2592090.5551	800.3864	IL251	529+19.1038	19.9144' LT	GPS CONTROL POINT, PIN
16	1832373.5651	2590298.4220	968.1479	IL251	325+95.9155	32.2825' RT	GPS CONTROL POINT, PIN
17	1832957.7683	2590237.8245	970.1307	IL251	331+81.0812	18.1812' LT	GPS CONTROL POINT, PIN

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
120	1829693.3612	2586300.3567	956.6931	IL251	267+48.1159 R	20.0664' LT	POT, PAINTED
121	1829687.0294	2587680.2196	943.7373	IL251	281+27.9933 R	20.3719' LT	POT, PAINTED
122	1833092.8552	2590253.4429	971.8339	IL251	333+15.8771 R	20.224' LT	POT, PAINTED

BENCH MARKS

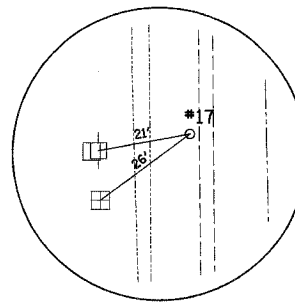
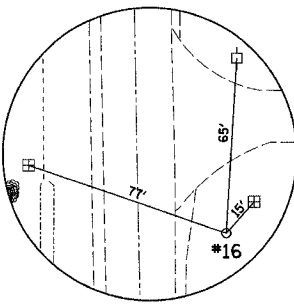
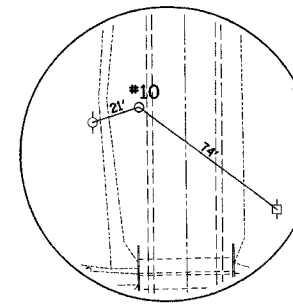
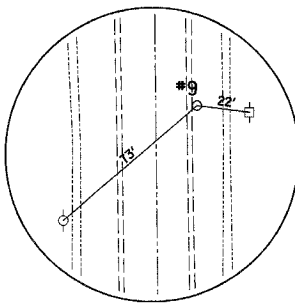
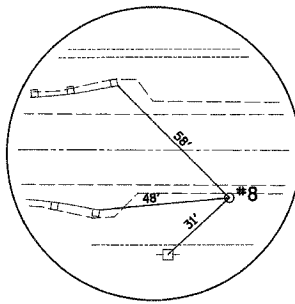
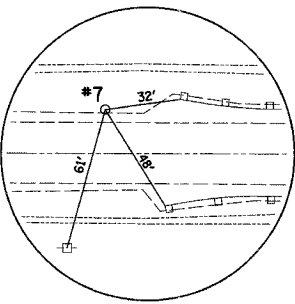
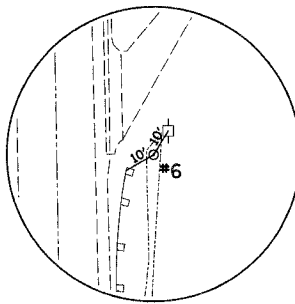
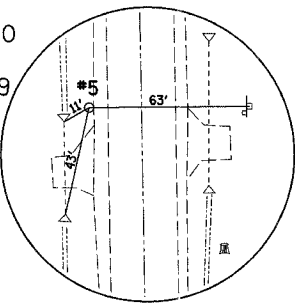
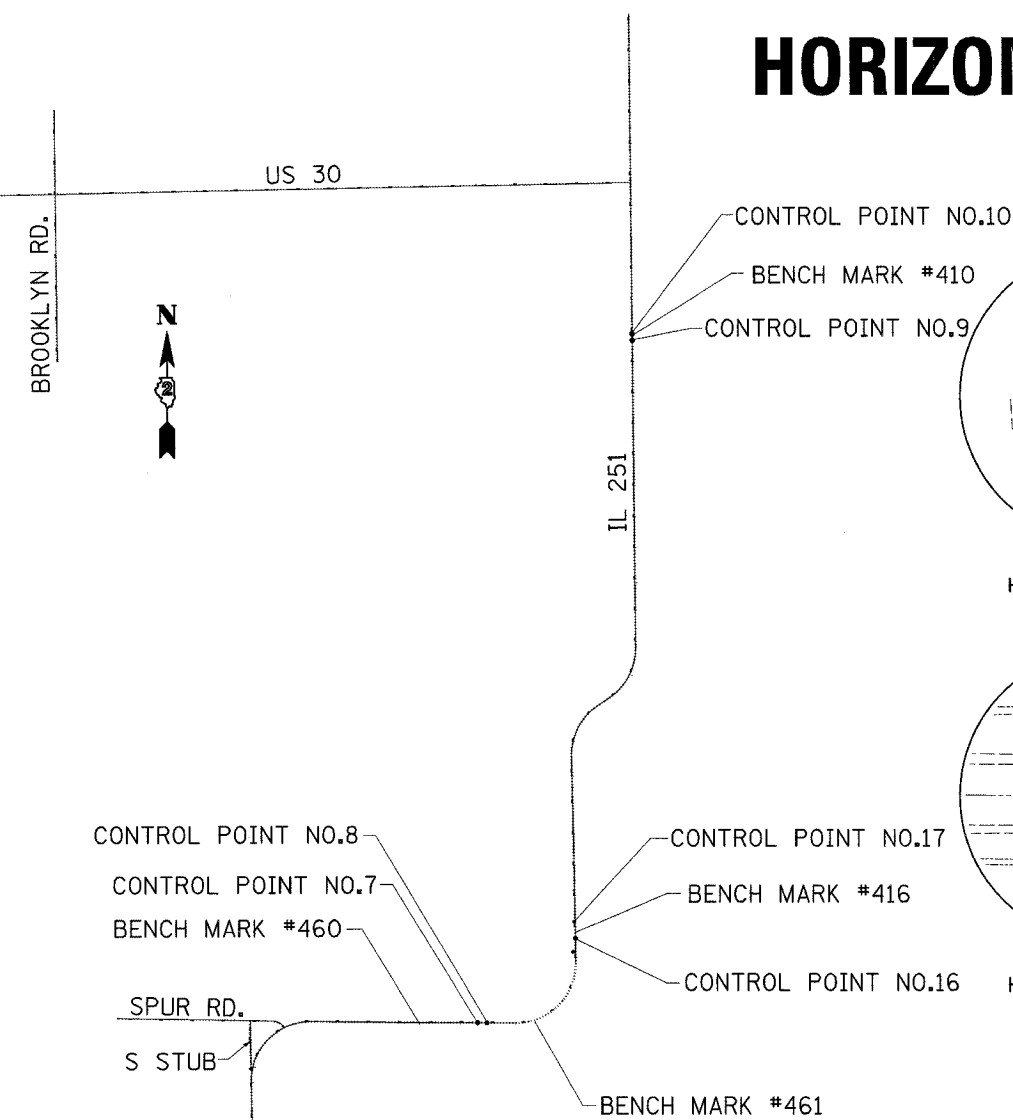
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
406	1811590.4281	2580141.8828	870.6063	IL251	29+28.1489	37.9596' RT	RAIL ROAD SPIKE, POWER POLE
410	1851883.1567	2592149.1696	801.2610	IL251	528+75.1182	38.2577' RT	BENCH TIE, POWER POLE
416	1832615.7215	2590300.0092	967.8185	IL251	328+38.0081	38.0662' RT	HEADWALL, HEADWALL
460	1829659.0964	2585242.9726	959.1013	IL251	256+90.9931	39.8309' RT	BENCH TIE, POWER POLE WITH TRANSFORMER
461	1829725.0056	2588961.0974	945.4670	IL251	294+02.8149	50.5368' RT	HEADWALL

PERMANENT SURVEY MARKERS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
77701576	1808218.52682	2580282.13803	916.3547				NGS MONUMENT (SALLE)
67738188	1808187.53983	2580284.71908	915.59170				NGS MONUMENT (SALLE RM 2)
67738187	1808246.65416	2580282.18303	916.67717				NGS MONUMENT (SALLE RM 1)
65722955	1777522.6442	2567699.3108	794.6094				DISTRICT NETWORK MONUMENT (BUR34-38)
65722892	1856694.7404	2587077.8458	764.9781				DISTRICT NETWORK MONUMENT (LEE30-28)
77700552	1905355.3453	2595375.7036	782.9647				NGS MONUMENT (V 223)

CURVE POINT NUMBERS

CHAIN	CURVE	PI	CC	PC	PT
IL251	200	200	201	202	203
IL251	210	210	211	212	213
IL251	220	220	221	222	223
IL251	230	230	231	232	233
IL251	240	240	241	242	243
IL251	260	260	261	262	263
IL251	270	270	271	272	273
IL251	280	280	281	282	283
IL251	290	290	291	292	293
IL251	300	300	301	302	303
IL251	310	310	311	312	313
IL251	320	320	321	322	323
IL251	330	330	331	332	333
S.SPUR	370	370	371	372	373
S.STUB	380	380	381	382	383
S.STUB	1210	1210	1211	1212	1213

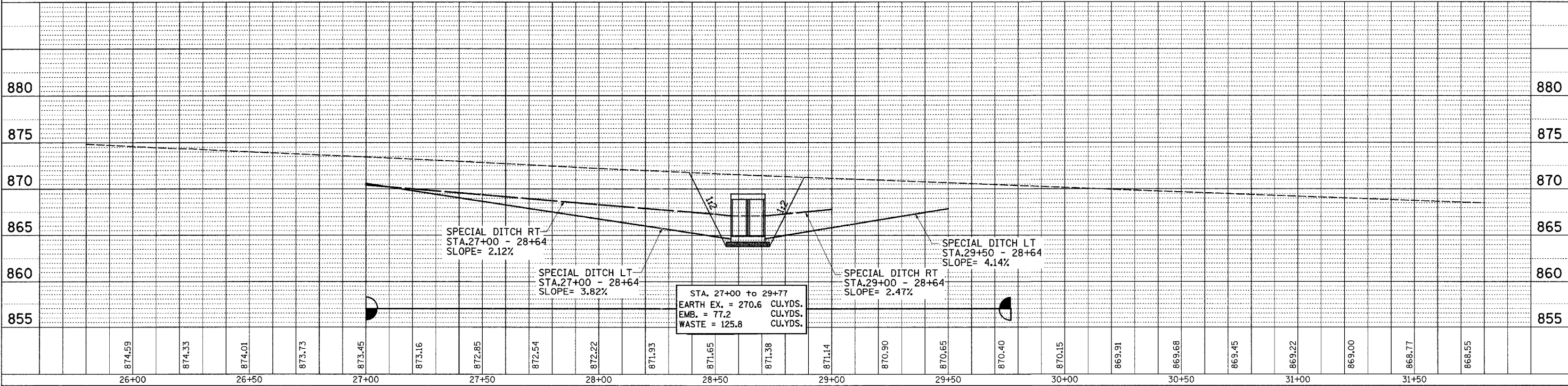
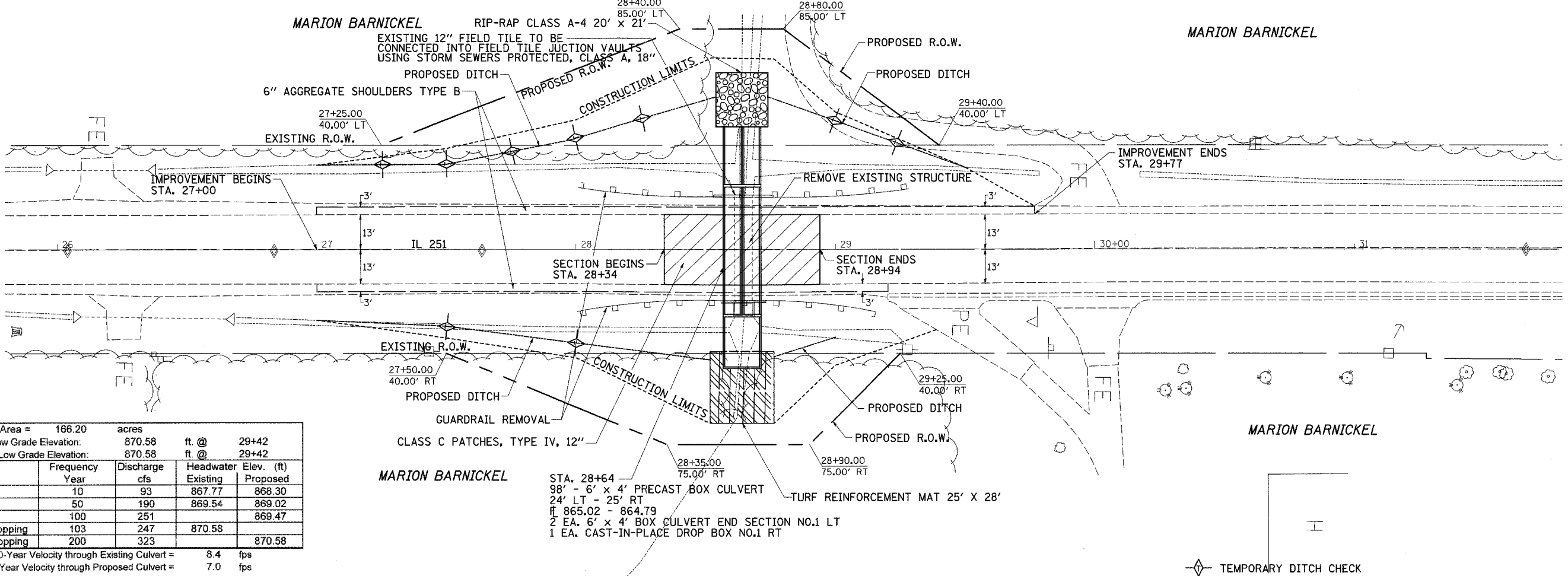


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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STA. 28 + 64

TWO CELL 6' x 4' BOX CULVERT



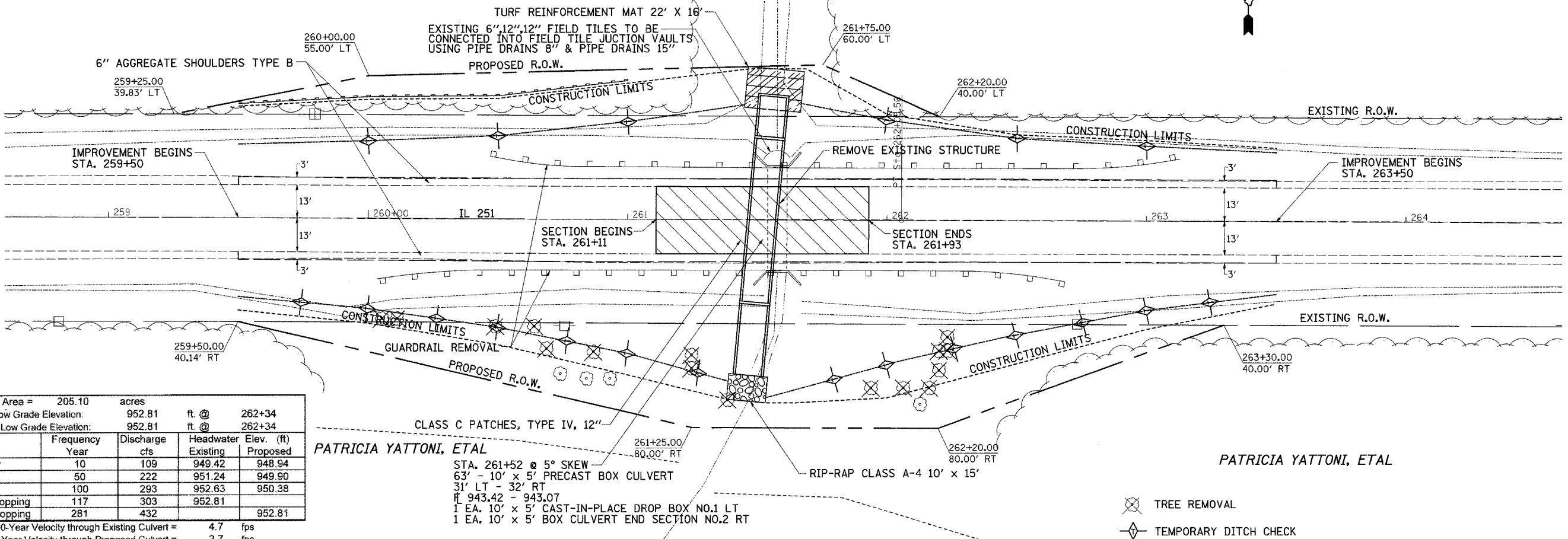
STA. 28 + 64 TWO CELL 6' x 4' BOX CULVERT

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STA. 261+52
10' x 5' BOX CULVERT

PARAMOUNT GROUP, LLC

PARAMOUNT GROUP, LLC



Drainage Area = 205.10 acres				
Existing Low Grade Elevation:	952.81	ft. @	262+34	
Proposed Low Grade Elevation:	952.81	ft. @	262+34	
Flood Year	Frequency	Discharge cfs	Headwater Existing	Elev. (ft) Proposed
Ten-Year	10	109	949.42	948.94
Design	50	222	951.24	949.90
Base	100	293	952.63	950.38
EX Overtopping	117	303	952.81	
PR Overtopping	281	432		952.81

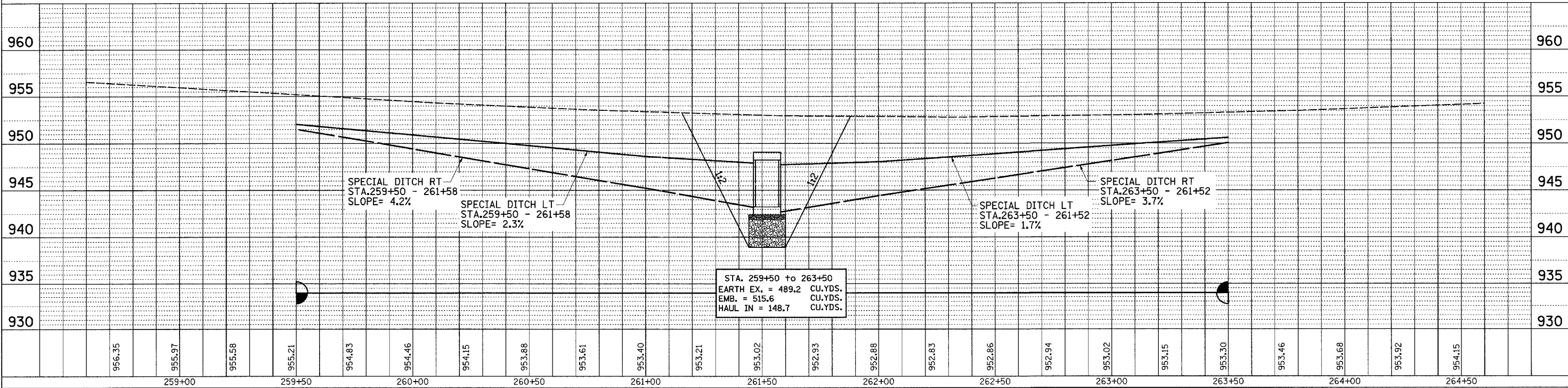
10-Year Velocity through Existing Culvert = 4.7 fps
10-Year Velocity through Proposed Culvert = 2.7 fps

PATRICIA YATTONI, ETAL

STA. 261+52 @ 5° SKEW
63' - 10' x 5' PRECAST BOX CULVERT
31' LT - 32' RT
R 943.42 - 943.07
1 EA. 10' x 5' CAST-IN-PLACE DROP BOX NO.1 LT
1 EA. 10' x 5' BOX CULVERT END SECTION NO.2 RT

PATRICIA YATTONI, ETAL

- TREE REMOVAL
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER



STA. 259+50 to 263+50
EARTH EX. = 489.2 CU.YDS.
EMB. = 515.6 CU.YDS.
HAUL IN = 148.7 CU.YDS.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

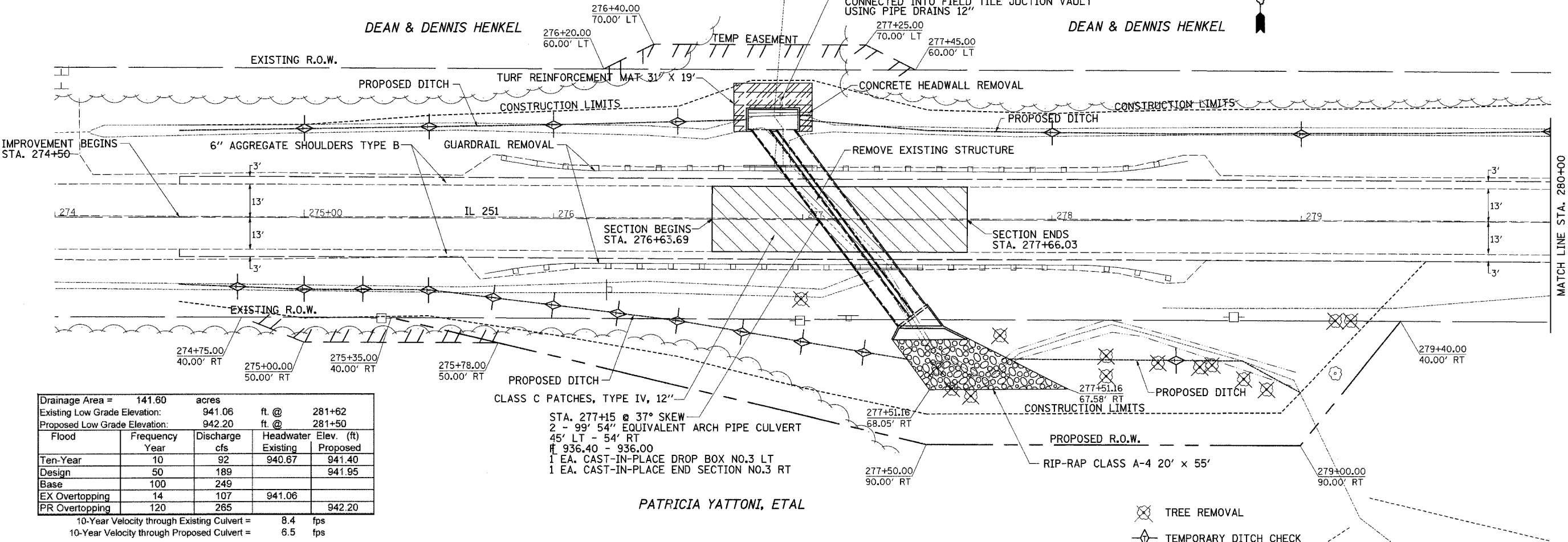
STA. 277+15

DOUBLE 54" EQUIVALENT ARCH PIPE CULVERT



DEAN & DENNIS HENKEL

DEAN & DENNIS HENKEL



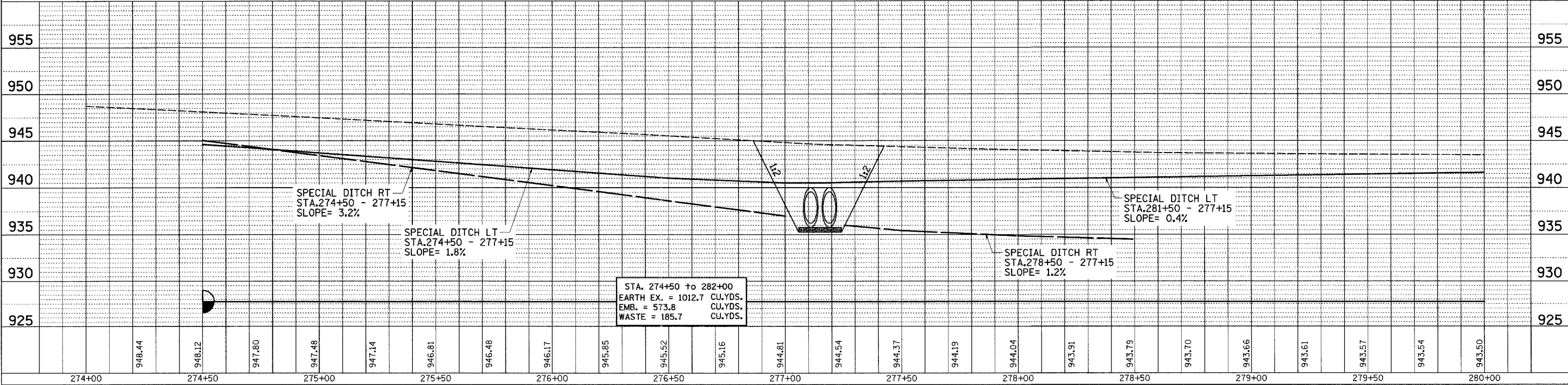
Drainage Area =		141.60	acres
Existing Low Grade Elevation:	941.06	ft. @	281+62
Proposed Low Grade Elevation:	942.20	ft. @	281+50
Flood	Frequency	Discharge	Headwater Elev. (ft)
	Year	cfs	Existing Proposed
Ten-Year	10	92	940.67 941.40
Design	50	189	
Base	100	249	
EX Overtopping	14	107	941.06
PR Overtopping	120	265	942.20

10-Year Velocity through Existing Culvert = 8.4 fps
10-Year Velocity through Proposed Culvert = 6.5 fps

STA. 277+15 @ 37° SKEW
2 - 99' 54" EQUIVALENT ARCH PIPE CULVERT
45' LT - 54' RT
936.40 - 936.00
1 EA. CAST-IN-PLACE DROP BOX NO.3 LT
1 EA. CAST-IN-PLACE END SECTION NO.3 RT

PATRICIA YATTONI, ETAL

- TREE REMOVAL
- TEMPORARY DITCH CHECK



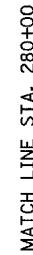
STA. 277+15 DOUBLE 54" EQUIVALENT ARCH PIPE CULVERT

PLAN	BY	DATE
SUBMITTED		
NOTED		
REVISIONS		
NO.		

PROFILE	BY	DATE
SUBMITTED		
NOTED		
REVISIONS		
NO.		

PLOT DATE = Tue Feb 26 18:28:55 2008
PLOT SCALE = 20.0000' / IN.
USER NAME = cushman-bv

STA. 277 + 15



TEMPORARY DITCH CHECK

STA. 274+50 to 282+00	
EARTH EX. = 1012.7	CU.YDS.
EMB. = 573.8	CU.YDS.
WASTE = 185.7	CU.YDS.

STA. 277+15 DOUBLE 54" EQUIVALENT ARCH PIPE CULVERT

```

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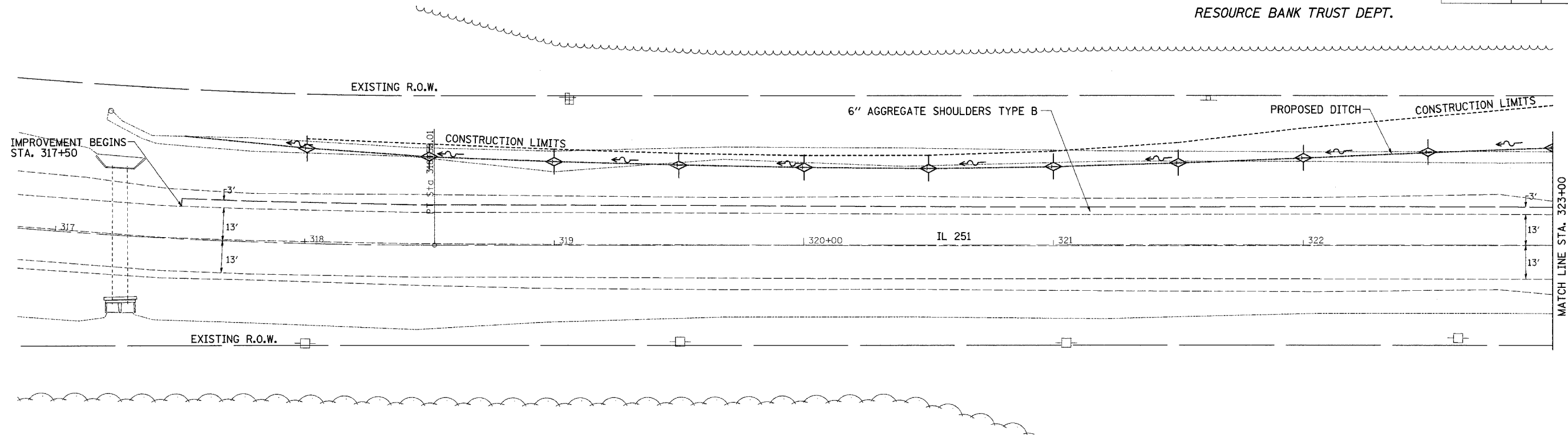
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1177	(110,111)T	LEE	59	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT



RESOURCE BANK TRUST DEPT.

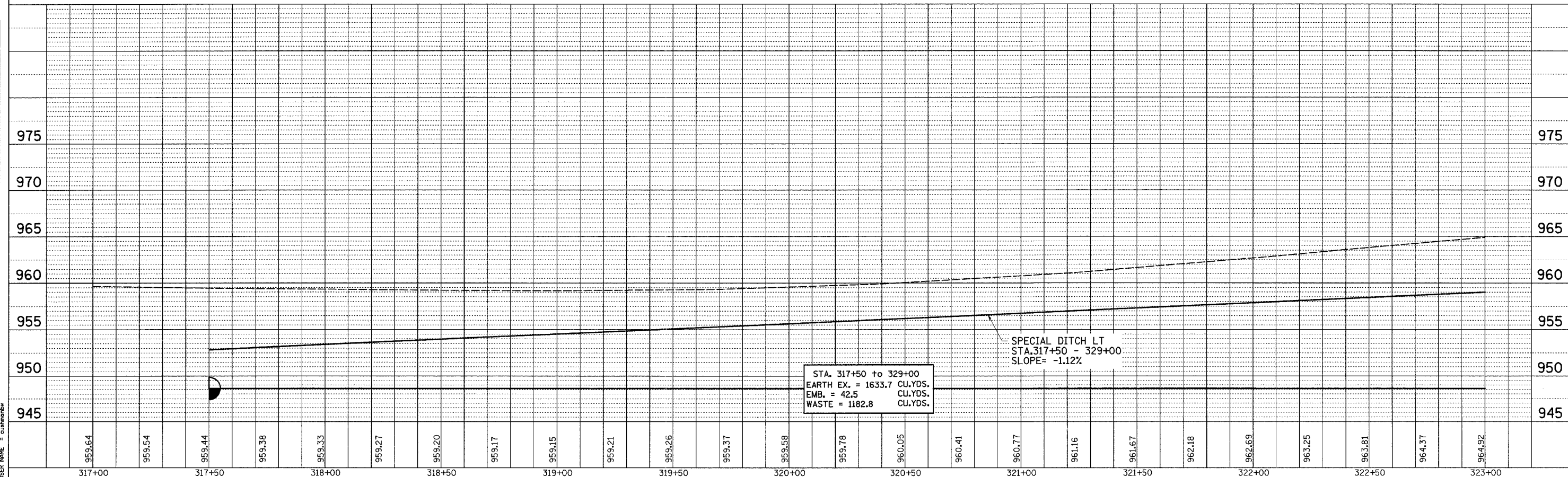
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NOTE BOOK	PLOTTED		
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	ADD FILE NAME		



TEMPORARY DITCH CHECK

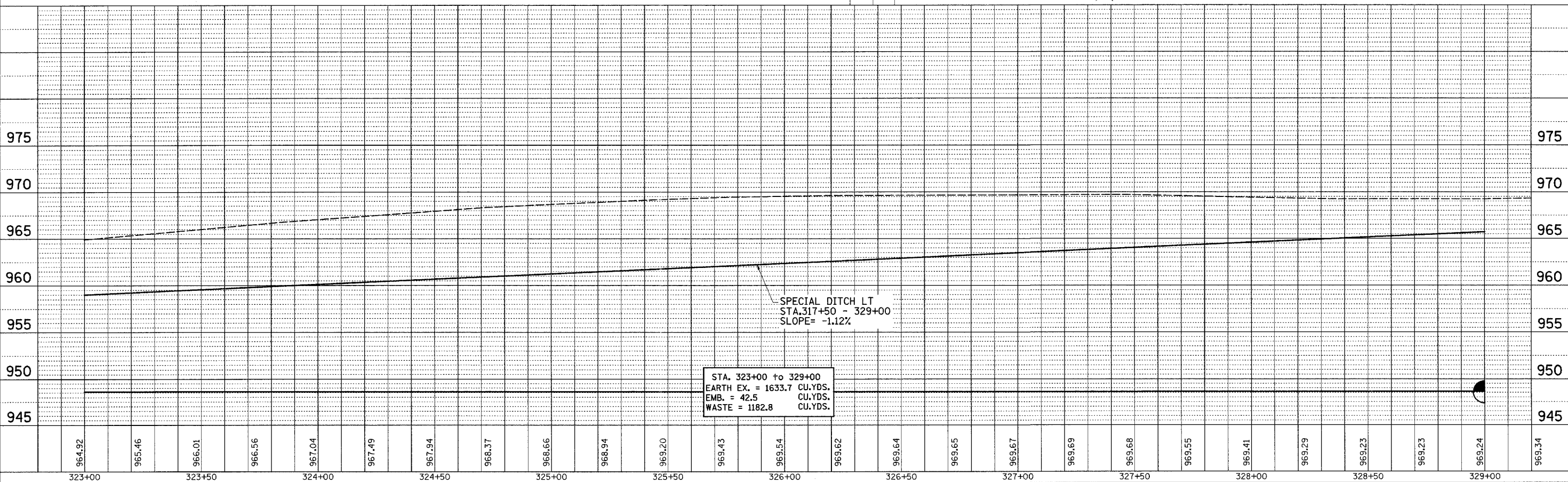
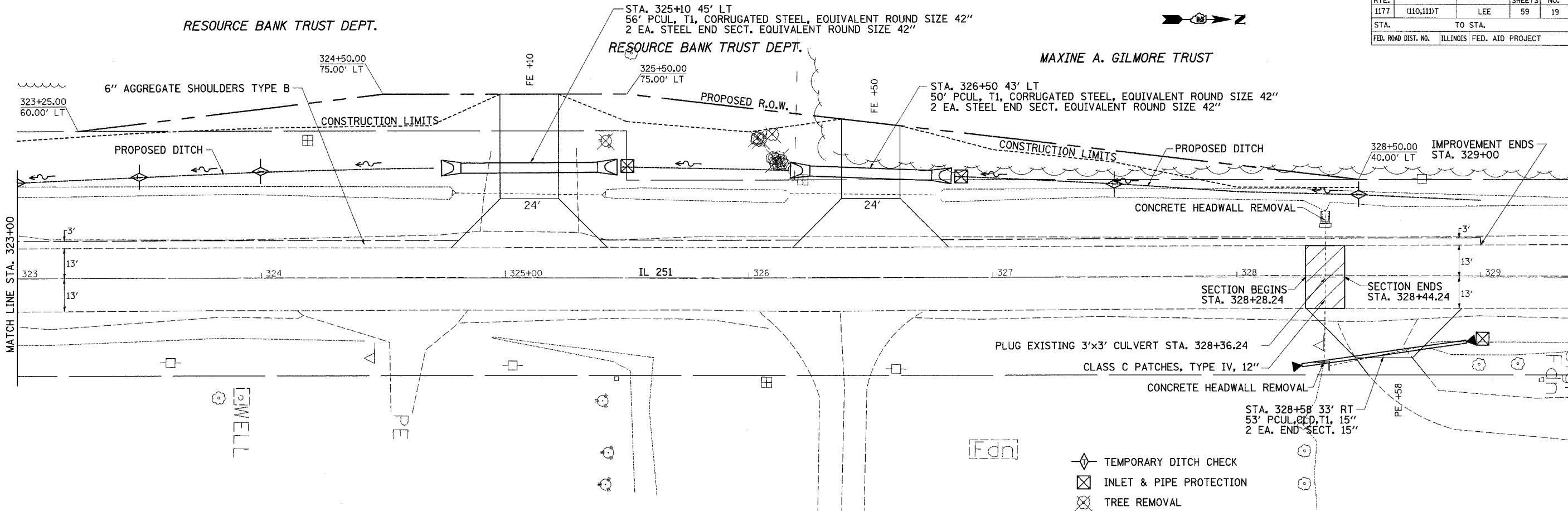
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	STRUCTURE NOTATION CYED		

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3' x 3' CULVERT TO BE PLUGGED

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



3' x 3' CULVERT TO BE PLUGGED

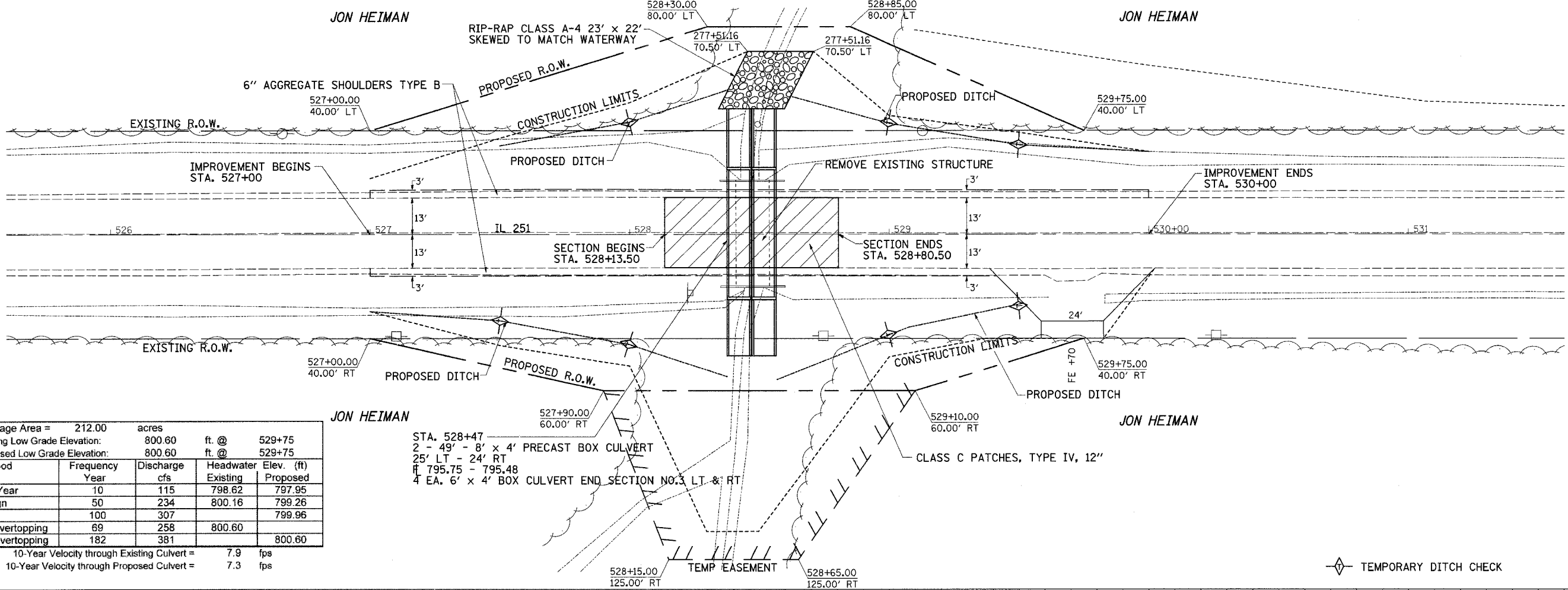
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STA. 528 + 47
TWO CELL 8' x 4' BOX CULVERT



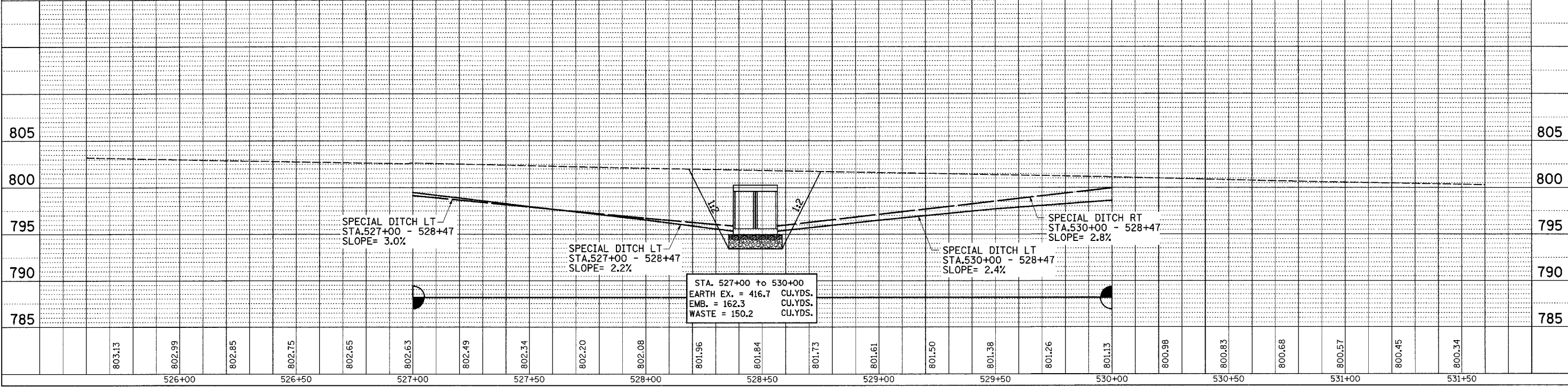
Drainage Area = 212.00 acres				
Existing Low Grade Elevation:		800.60	ft. @	529+75
Proposed Low Grade Elevation:		800.60	ft. @	529+75
Flood	Frequency	Discharge	Headwater	Elev. (ft)
	Year	cfs	Existing	Proposed
Ten-Year	10	115	798.62	797.95
Design	50	234	800.16	799.26
Base	100	307		799.96
EX Overtopping	69	258	800.60	
PR Overtopping	182	381		800.60

10-Year Velocity through Existing Culvert = 7.9 fps
10-Year Velocity through Proposed Culvert = 7.3 fps

STA. 528+47
2 - 49' - 8' x 4' PRECAST BOX CULVERT
25' LT - 24' RT
E 795.75 - 795.48
4 EA. 6' x 4' BOX CULVERT END SECTION NO. 3 LT & RT

CLASS C PATCHES, TYPE IV, 12"

TEMPORARY DITCH CHECK



DATE	BY	REVIEWED	DATE
		PLANNING	
		DESIGN	
		CONSTRUCTION	
		MAINTENANCE	

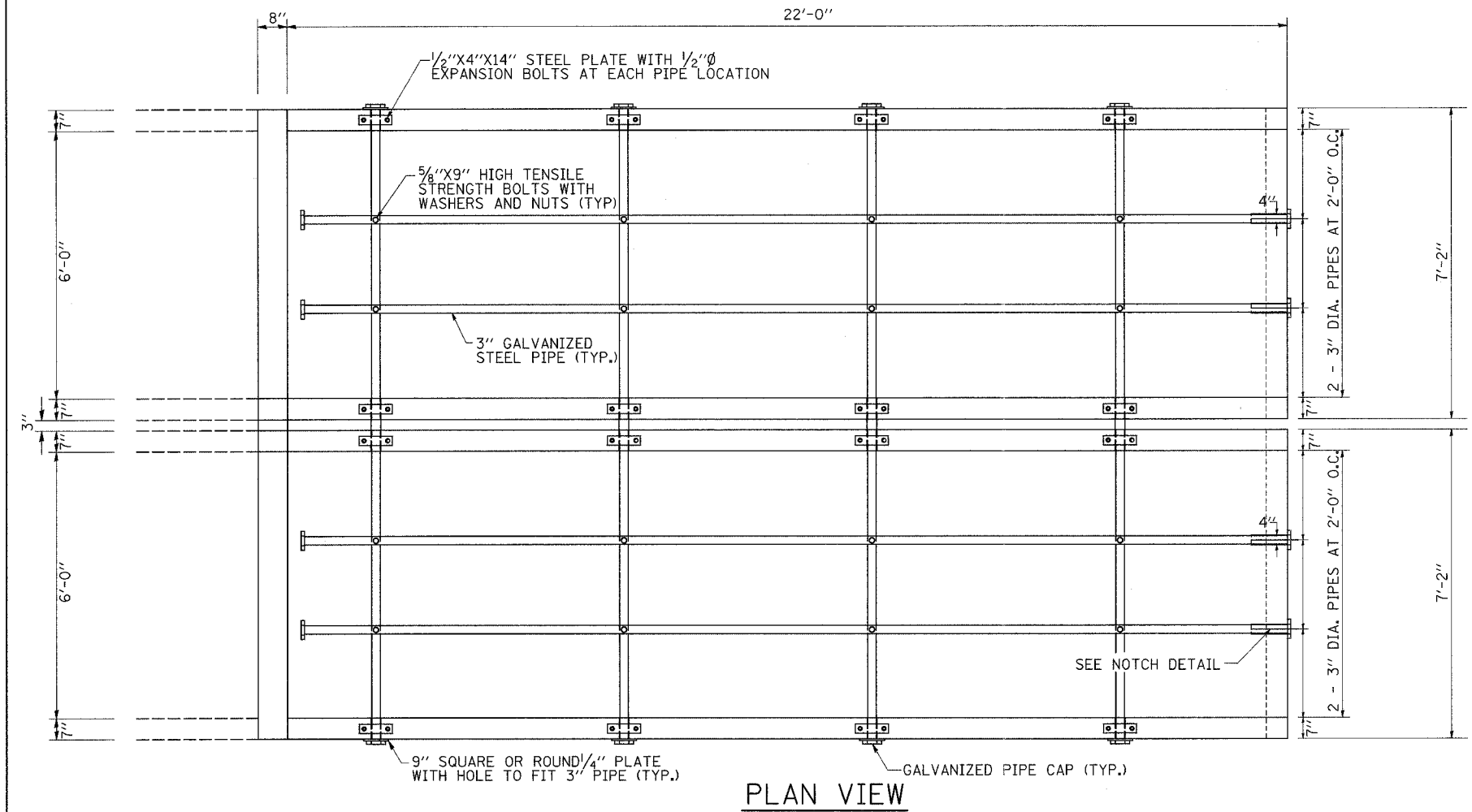
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		DESIGN	
		CONSTRUCTION	
		MAINTENANCE	

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USER NAME = cshmanby

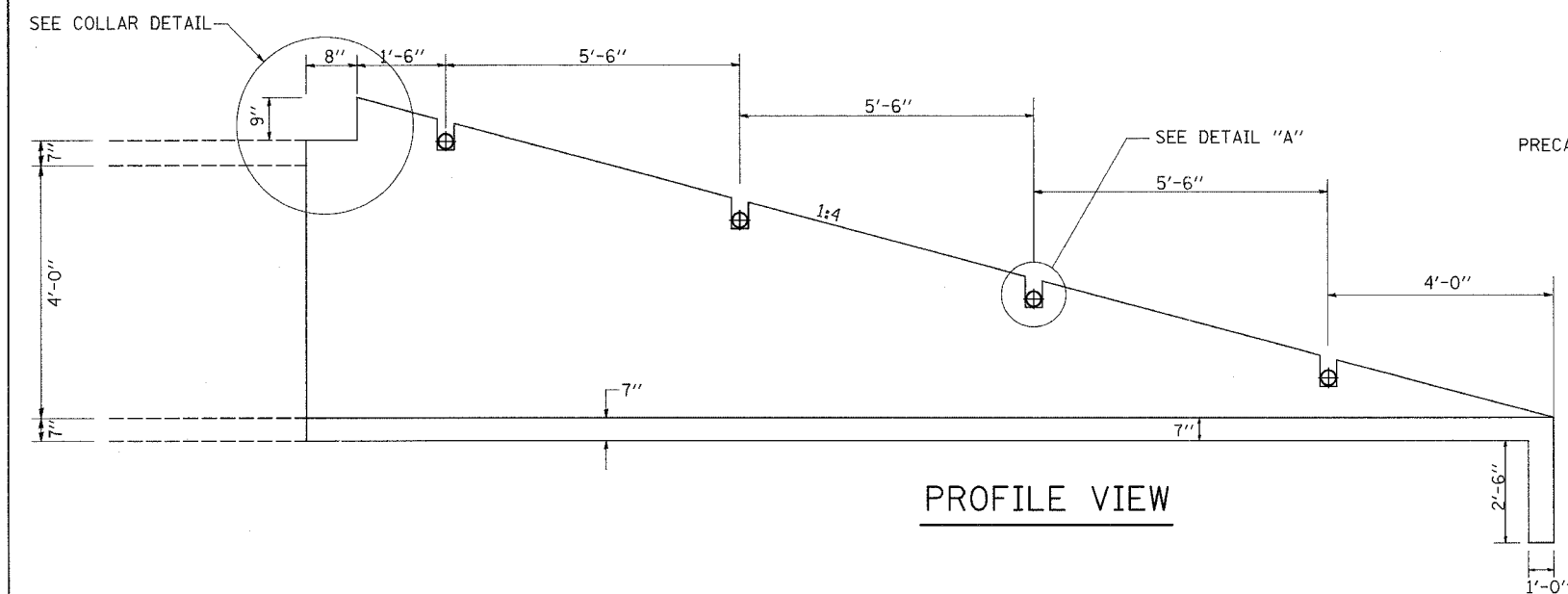
BOX CULVERT END SECTION NO.1

STA. 28 + 64

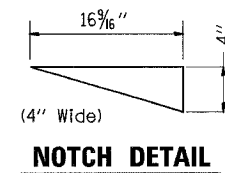
CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



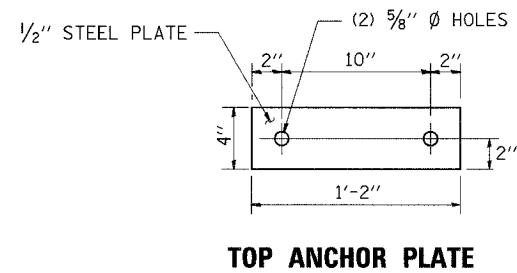
PLAN VIEW



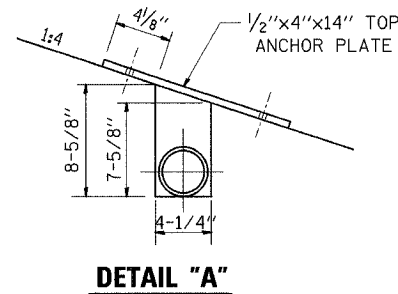
PROFILE VIEW



NOTCH DETAIL



TOP ANCHOR PLATE



DETAIL "A"

BILL OF MATERIALS

(For Information Only)

DESCRIPTION	UNIT	QTY.
3" Galvanized Steel Pipe	40	14'-9"
3" Galv. Pipe Caps	EACH	16
1/4" Galv. Stl. Plate (9" Nominal)	EACH	8
1/2"x4"x14" Galv. Steel Plate	EACH	16
5/8"x9" Galv. Steel Bolts	EACH	16
Expansion Bolts 1/2"Ø	EACH	32

GENERAL NOTES:

Slope flow line of the extension at the same rate as the flow line of the box.

Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the standard specifications and shall be galvanized.

The contract unit price "Each" for Box Culvert End Section No. 1 shall be of precast construction and shall include the expansion bolts, galvanized pipes, class SI Concrete, Bolts, Nuts, Reinforcement, washers, and steel plates.

The contractor has the option of using Cast-In-Place and must provide us with shop drawings for review.

All labor and material required for the construction of the connection collar shall be included in the bid item "PRECAST CONCRETE BOX CULVERT 6'x4'".

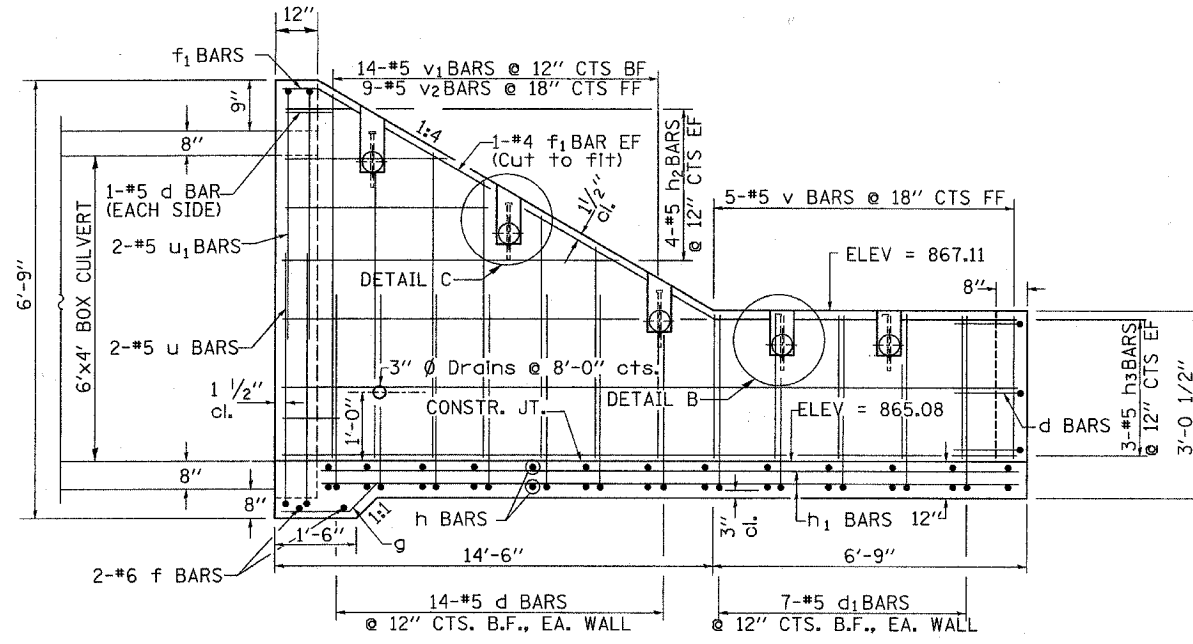
Steel pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to A.S.T.M. A-120. Contractor shall field verify pipe length.

Steel Plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.

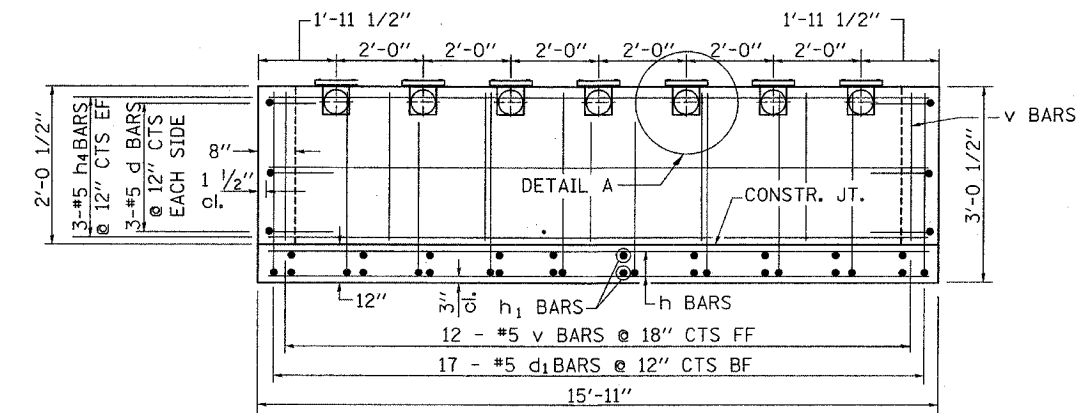
SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION
SEE CROSS SECTION SHEET FOR MORE INFORMATION

BOX CULVERT END SECTION NO.1

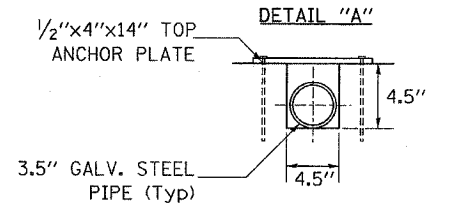
DROP BOX NO. 1 **STA. 28 + 64**



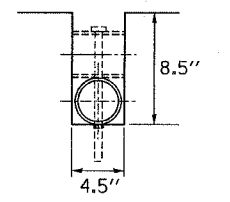
SIDEWALLS



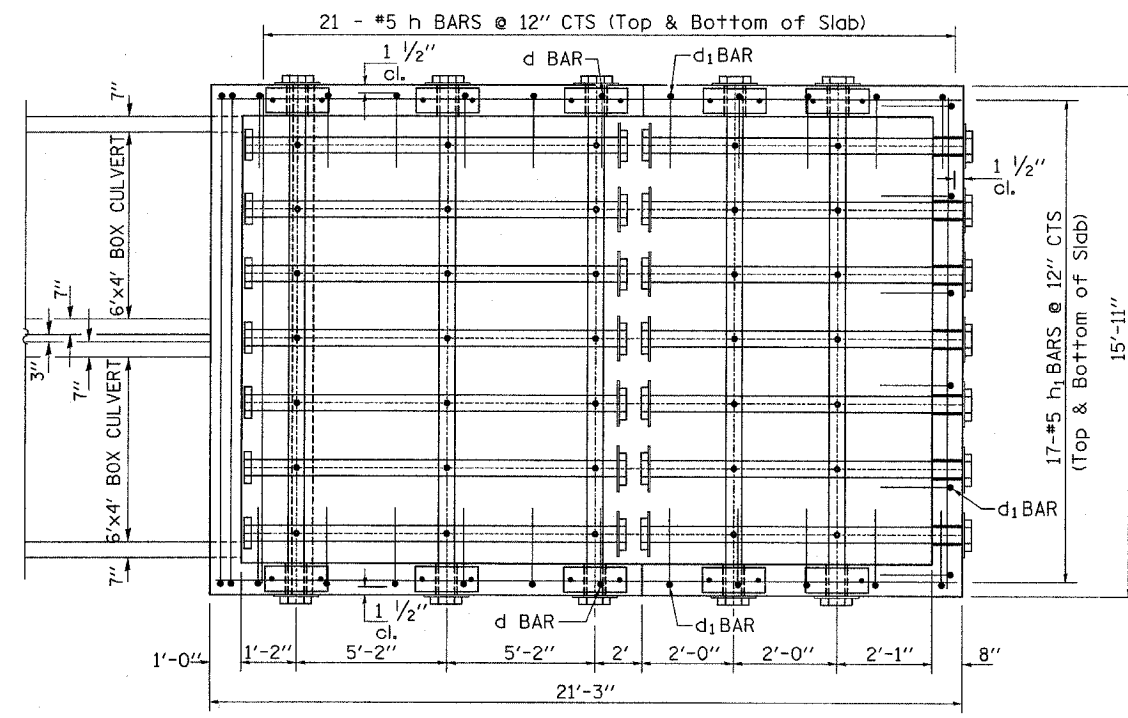
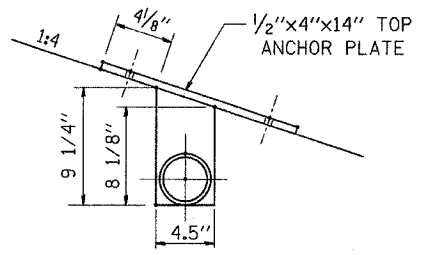
BACK WALL



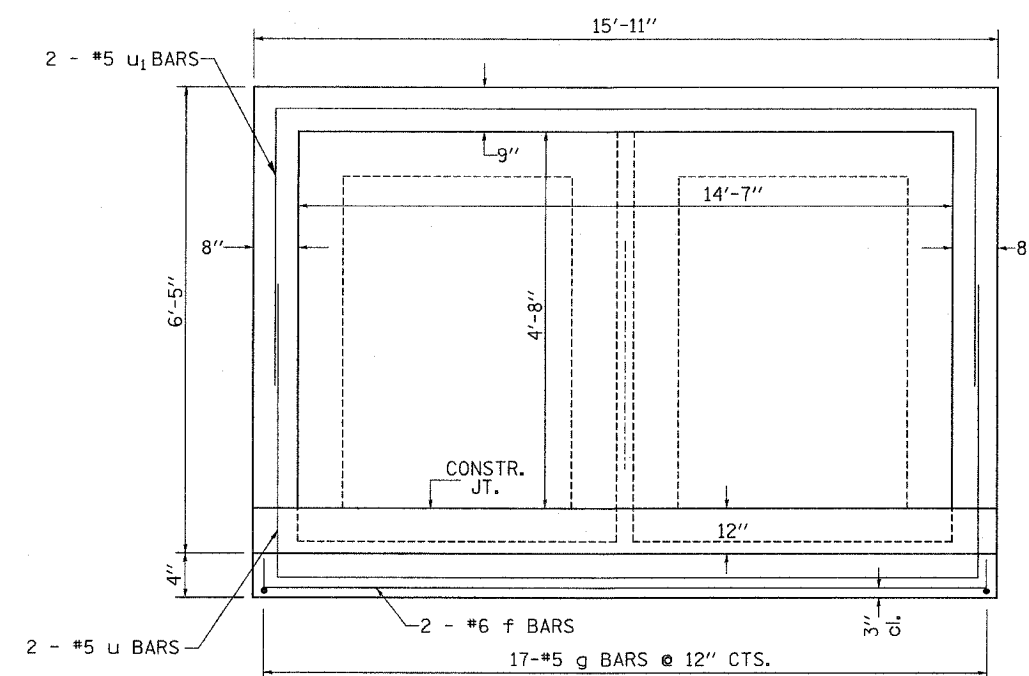
DETAIL "B"



DETAIL "C"



BOTTOM SLAB



HEADWALL

JAMES O. HAMILTON
061-003665
LICENSED
STRUCTURAL
ENGINEER
OF
ILLINOIS
James O. Hamilton
2/15/08
Expires 11/30/08

PLOT DATE = 2/14/2008
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USER NAME = jh0001

DROP BOX NO. 1
STA. 28 + 64

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
SHEET 2 OF 2				

GENERAL NOTES

Order h2, v1 & v2 Bars Full Length and cut to fit in field. Use Remainder in Opp. Wall

This work shall be done according to the applicable portion of 503, 508, and 540 of the Standard Specifications.

Contractor shall field verify Galvanized pipe length

Exposed edges shall be beveled 3/4 ".

The contract unit price "each" for DROP BOX NO. 1 shall include the Expansion Bolts, Galvanized Pipe, Concrete Structures, Reinforcement Bars, Bolts, Nuts, Washers, Steel Plates, earth excavation where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope

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

Steel Plates shall conform to AASHTO M-183 and shall be Galvanized conforming to AASHTO M-111.

Bolts, Nuts, and Washers shall be in accordance with Article 505 of the Standard Specification and shall be galvanized.

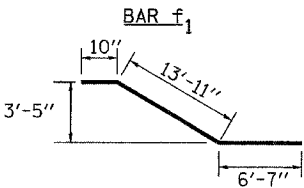
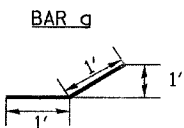
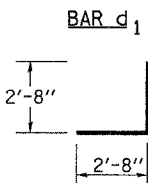
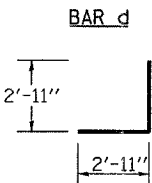
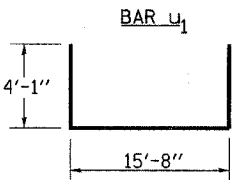
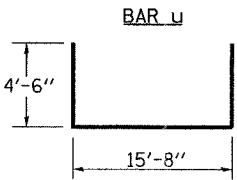
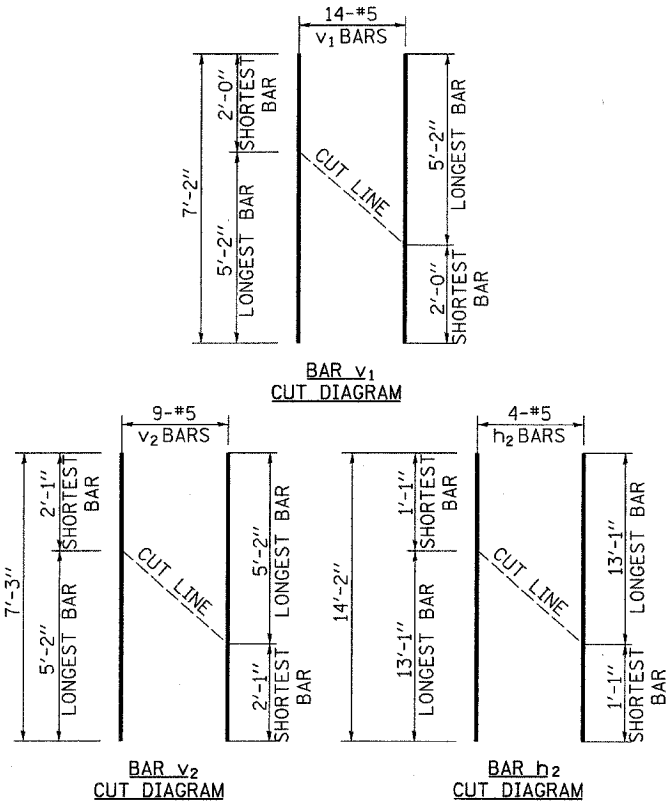
See Plan & Profile Sheet for more information.

See Cross Section Sheet for more information.

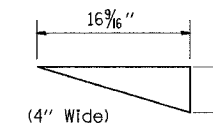
BILL OF MATERIAL

(For Information Only)

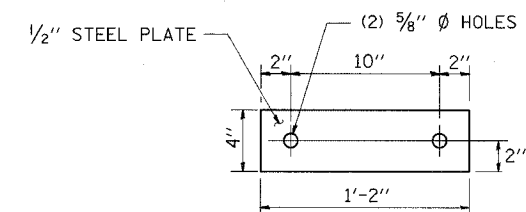
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d1	5	31	5'-4"	
f	6	2	15'-8"	
f1	4	2	21'-4"	
g	5	17	2'-0"	
h	5	42	15'-8"	
h1	5	34	20'-0"	
h2	5	8	14'-2"	
h3	5	12	21'-0"	
h4	5	6	15'-8"	
v	5	22	2'-9"	
v1	5	14	7'-2"	
v2	5	9	7'-3"	
u	5	2	24'-8"	
u1	5	2	23'-10"	
DESCRIPTION			UNIT	QTY
CONCRETE STRUCTURES			CU YD	17.1
REINFORCEMENT BARS			LB	2710
DESCRIPTION			UNIT	QTY.
3.5" GALVANIZED STEEL PIPE			5ø	16'-3"
			7ø	13'-6"
			7ø	6'-9"
3.5" GALVANIZED PIPE CAPS			EACH	38
1/4" GALVANIZED STEEL PLATE (9" NOMINAL)			EACH	10
1/2"x4"x14" GALVANIZED STEEL PLATE			EACH	17
5/8"x9" GALVANIZED STEEL BOLTS			EACH	35



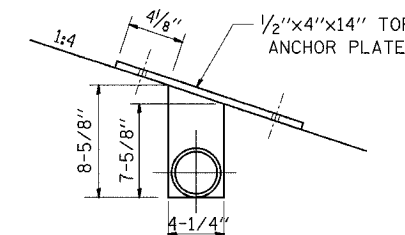
CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTCH DETAIL

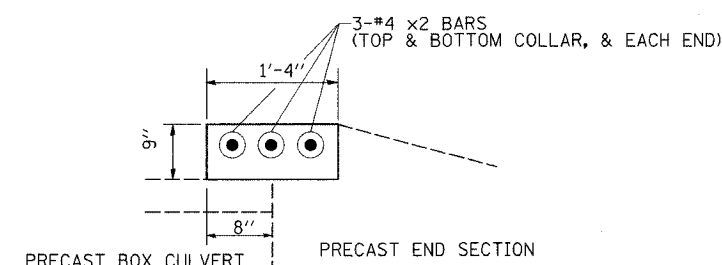


TOP ANCHOR PLATE



DETAIL "A"

PLAN VIEW



COLLAR DETAIL



BILL OF MATERIALS

(For Information Only)

DESCRIPTION	UNIT	QTY.
3" Galvanized Steel Pipe	40	11'-4"
	40	27'-0"
3" Galv Pipe Caps	EACH	16
1/4" Galv. Stl. Plate (9" Nominal)	EACH	8
1/2"x4"x14" Galv. Steel Plate	EACH	8
5/8"x9" Galv. Steel Bolts	EACH	16
Expansion Bolts 1/2"Ø	EACH	16

GENERAL NOTES:

Slope flow line of the extension at the same rate as the flow line of the box.

Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the standard specifications and shall be galvanized.

The contract unit price "Each" for Box Culvert End Section No. 2 shall be of precast construction and shall include the expansion bolts, galvanized pipes, class SI Concrete, Bolts, Nuts, Reinforcement, washers, and steel plates.

The contractor has the option of using Cast-In-Place and must provide us with shop drawings for review.

All labor and material required for the construction of the connection collar shall be included in the bid item "PRECAST CONCRETE BOX CULVERT 10'x5' ".

Steel pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to A.S.T.M. A-120. Contrator shall field verify pipe length.

Steel Plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.

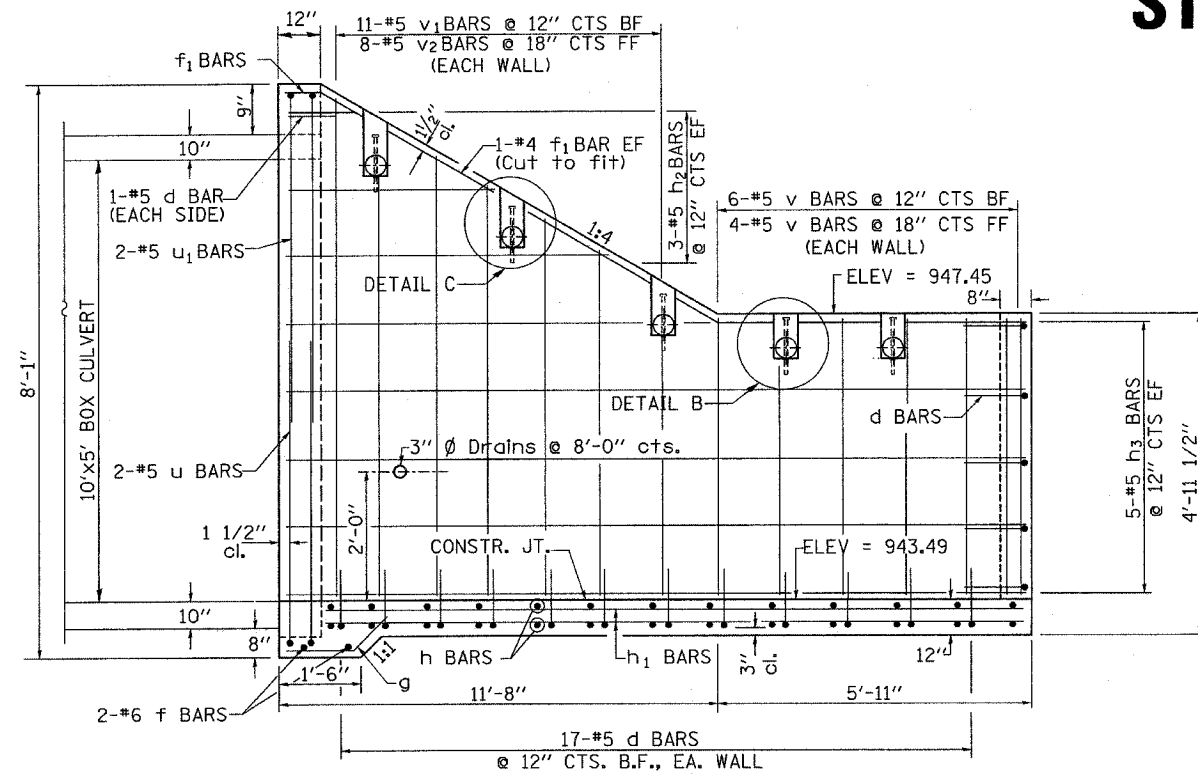
SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION
SEE CROSS SECTION SHEET FOR MORE INFORMATION

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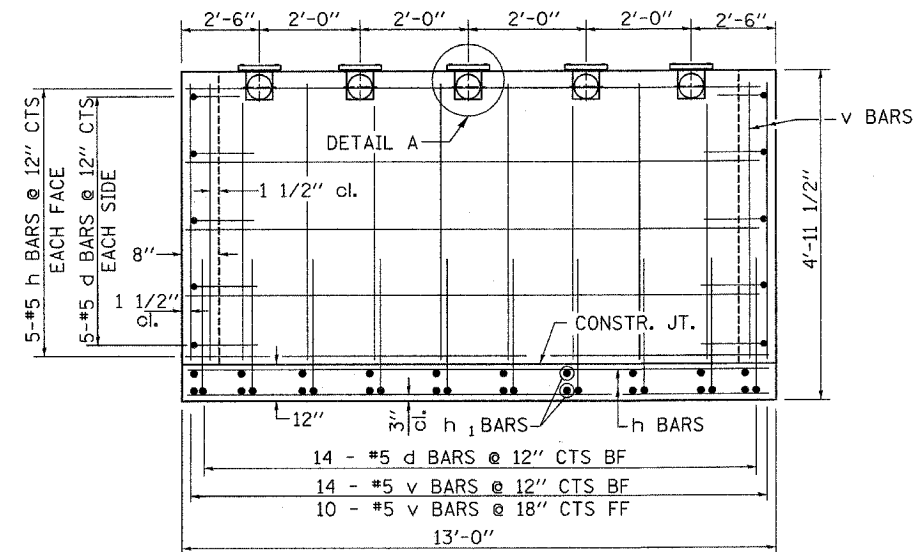
BOX CULVERT END SECTION NO. 2

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

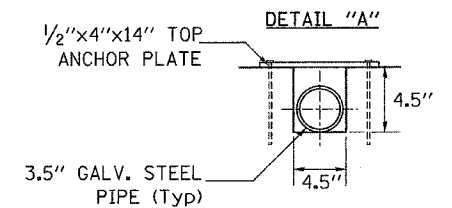
DROP BOX NO. 2
STA. 261 + 52



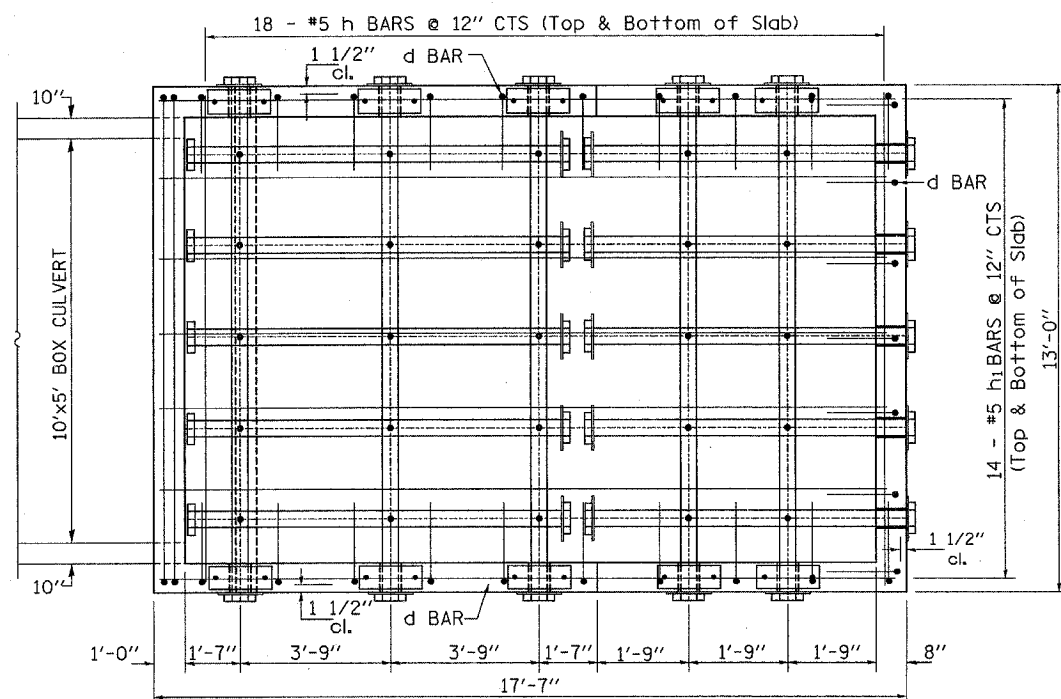
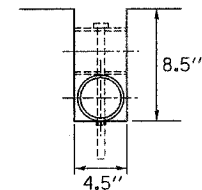
SIDEWALLS



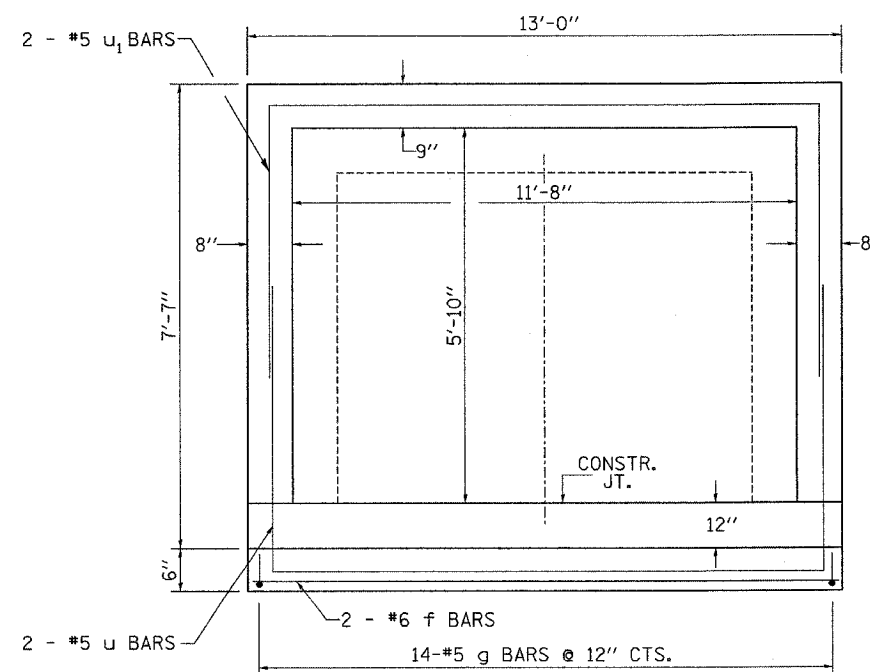
BACK WALL



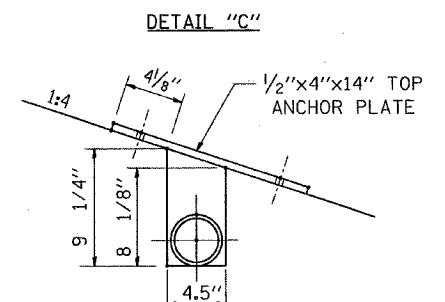
DETAIL "B"



BOTTOM SLAB



HEADWALL



James O. Hamilton
2/15/08
Expires 11/30/08

DROP BOX NO. 2
STA. 261 + 52

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	26
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET 2 OF 2

GENERAL NOTES

Order h2, v1 & v2 Bars Full Length and cut to fit in field. Use Remainder in Opp. Wall

This work shall be done according to the applicable portion of 503, 508, and 540 of the Standard Specifications.

Contractor shall field verify Galvanized pipe length

Exposed edges shall be beveled 3/4 "

The contract unit price "each" for DROP BOX NO. 2 shall include the Expansion Bolts, Galvanized Pipe, Concrete Structures, Reinforcement Bars, Bolts, Nuts, Washers, Steel Plates, earth excavation where required, and necessary grading to fit the Inlet as shown in the cross sections or to the slope

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

Steel Plates shall conform to AASHTO M-183 and shall be Galvanized conforming to AASHTO M-111.

Bolts, Nuts, and Washers shall be in accordance with Article 505 of the Standard Specification and shall be galvanized.

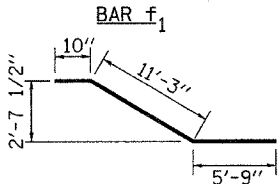
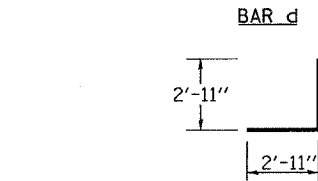
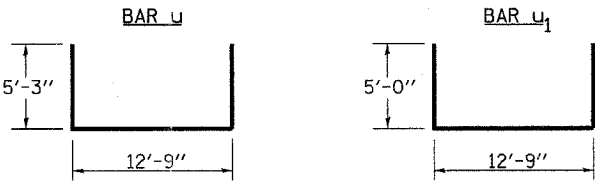
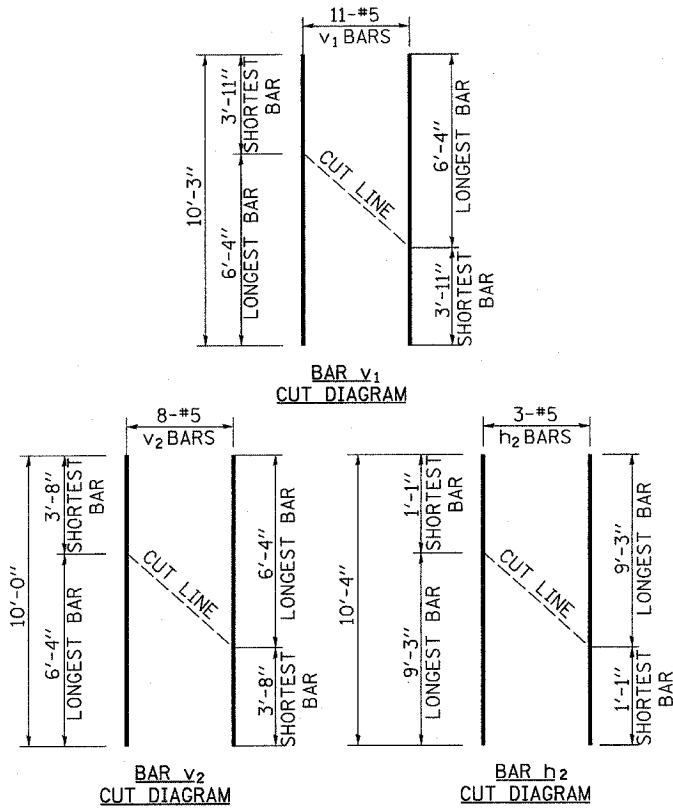
See Plan & Profile Sheet for more information.

See Cross Section Sheet for more information.

BILL OF MATERIAL

(For Information Only)

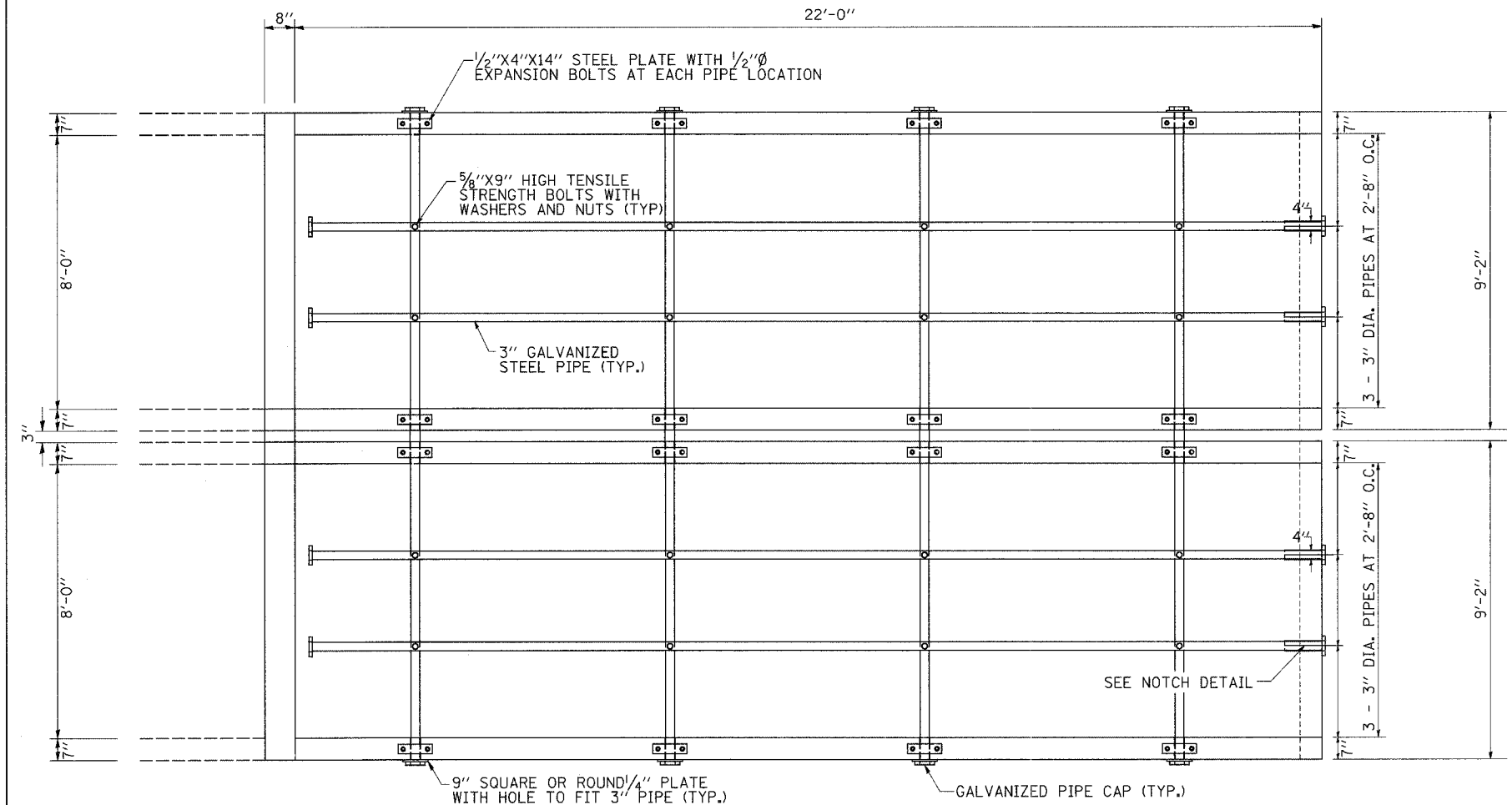
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d	5	60	5'-10"	
f	6	2	12'-9"	
f1	4	4	17'-10"	
g	5	14	2'-0"	
h	5	46	12'-9"	
h1	5	28	16'-5"	
h2	5	6	10'-4"	
h3	5	20	17'-5"	
v	5	44	3'-8"	
v1	5	11	10'-3"	
v2	5	8	10'-0"	
u	5	2	23'-3"	
u1	5	2	22'-9"	
DESCRIPTION			UNIT	QTY
CONCRETE STRUCTURES			CU YD	14.3
REINFORCEMENT BARS			LB	2460
DESCRIPTION			UNIT	QTY.
3.5" GALVANIZED STEEL PIPE			5e	11'-1"
			5e	13'-4"
			5e	5'-11"
3.5" GALVANIZED PIPE CAPS			EACH	30
1/4" GALVANIZED STEEL PLATE (9" NOMINAL)			EACH	15
1/2"x4"x14" GALVANIZED STEEL PLATE			EACH	15
5/8"x9" GALVANIZED STEEL BOLTS			EACH	25



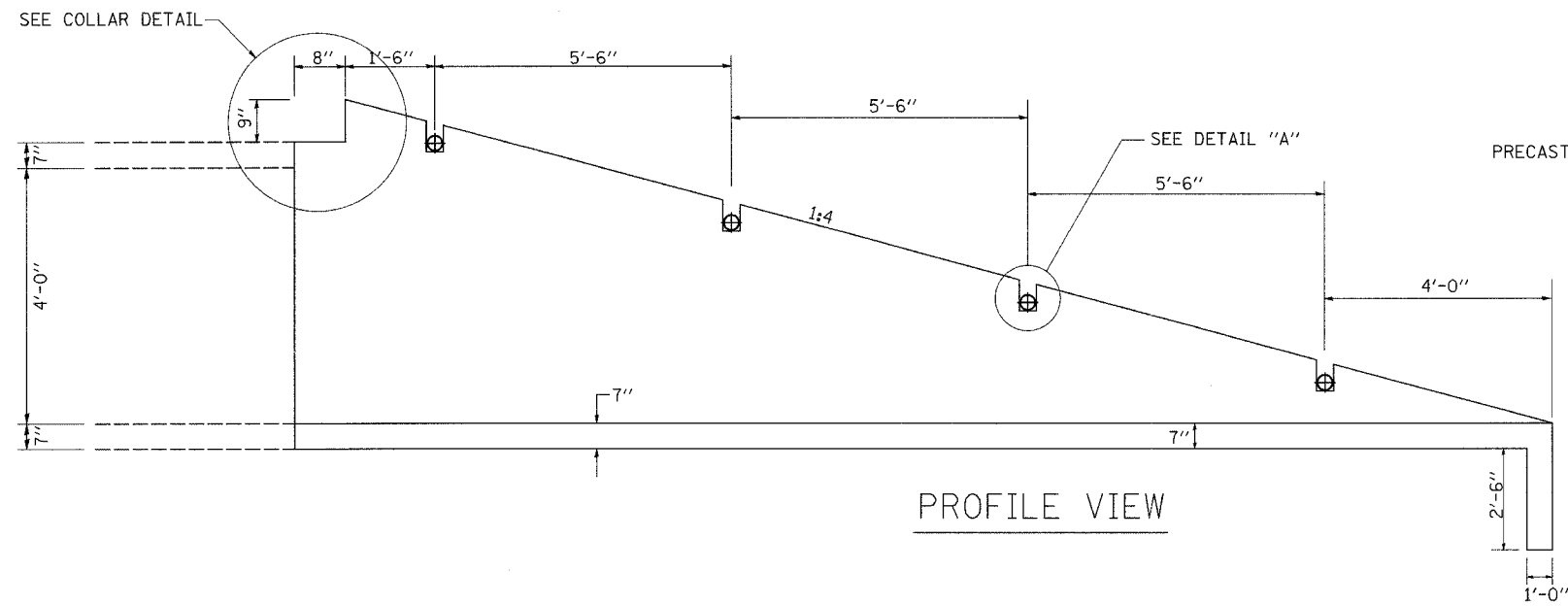
BOX CULVERT END SECTION NO.3

STA. 277 + 15

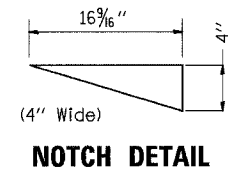
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



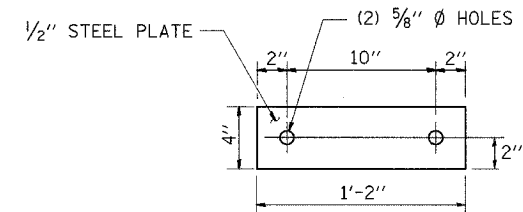
PLAN VIEW



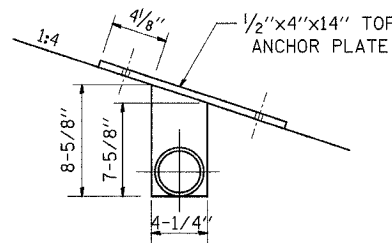
PROFILE VIEW



NOTCH DETAIL



TOP ANCHOR PLATE



DETAIL "A"

BILL OF MATERIALS

(For Information Only)

DESCRIPTION	UNIT	QTY.
3" Galvanized Steel Pipe	4@	18'-9"
3" Galv Pipe Caps	EACH	16
1/4" Galv. Stl. Plate (9" Nominal)	EACH	8
1/2"x4"x14" Galv. Steel Plate	EACH	4
5/8"x9" Galv. Steel Bolts	EACH	16
Expansion Bolts 1/2"	EACH	32

GENERAL NOTES:

- Slope flow line of the extension at the same rate as the flow line of the box.
- Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the standard specifications and shall be galvanized.
- The contract unit price "Each" for Box Culvert End Section No. 3 shall be of precast construction and shall include the expansion bolts, galvanized pipes, class SI Concrete, Bolts, Nuts, Reinforcement, washers, and steel plates.
- The contractor has the option of using Cast-In-Place and must provide us with shop drawings for review.
- All labor and material required for the construction of the connection collar shall be included in the bid item "PRECAST CONCRETE BOX CULVERT 8'x4'".
- Steel pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to A.S.T.M. A-120. Contractor shall field verify pipe length.
- Steel Plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.
- SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION
- SEE CROSS SECTION SHEET FOR MORE INFORMATION

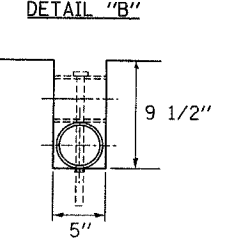
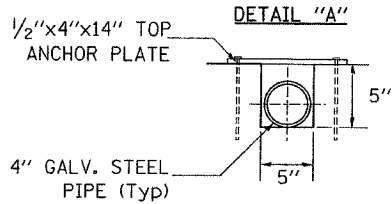
BOX CULVERT END SECTION NO. 3

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PLT SHEET = 27

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	28
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DROP BOX NO. 3

LT STA 277+15



BILL OF MATERIAL

(For Information Only)

BAR	SIZE	NO.	LENGTH	SHAPE
d	5	82	5'-10"	┐
f	6	2	21'-1"	—
g	5	22	2'-3"	┐
h	5	20	21'-1"	—
h1	5	44	9'-1"	—
h2	5	20	21'-1"	—
h3	5	20	9'-1"	—
v	5	104	3'-10"	—
u	5	2	27'-5"	┐
u1	5	2	26'-9"	┐
DESCRIPTION			UNIT	QTY
CONCRETE STRUCTURES			CU YD	12.0
REINFORCEMENT BARS			LB	2,630
DESCRIPTION			UNIT	QTY.
4" GALVANIZED STEEL PIPE			1@	21'-8"
			9@	8'-8"
4" GALVANIZED PIPE CAPS			EACH	20
1/4" GALVANIZED STEEL PLATE (9" NOMINAL)			EACH	11
1/2"x 4"x 14" GALVANIZED STEEL PLATE			EACH	11
5/8"x 10" GALVANIZED STEEL BOLTS			EACH	9

GENERAL NOTES:

This work shall be paid for at the contract unit price per Each for Drop Box No. 3.

This work shall be done according to the applicable portion of 503, 508, and 540 of the Standard Specifications.

Contractor shall field verify Galvanized pipe length

Exposed edges shall be beveled 3/4".

The contract unit price "each" for DROP BOX NO. 3 shall include the Expansion Bolts, Galvanized Pipe, Concrete Structures, Reinforcement Bars, Bolts, Nuts, Washers, Steel Plates, earth excavation where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope

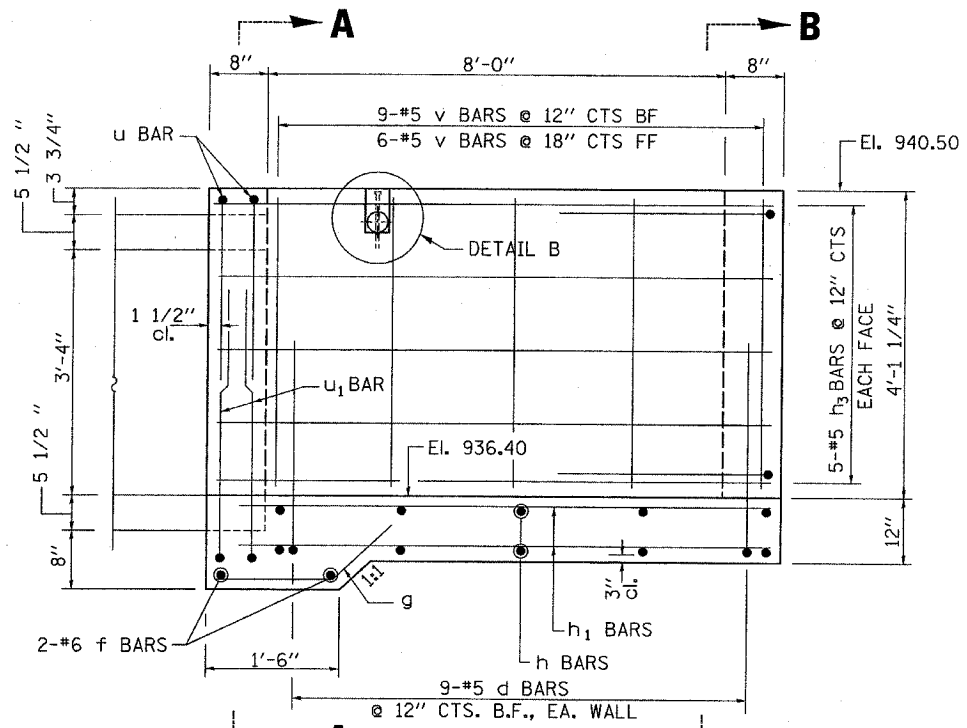
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

Steel Plates shall conform to AASHTO M-183 and shall be Galvanized conforming to AASHTO M-111.

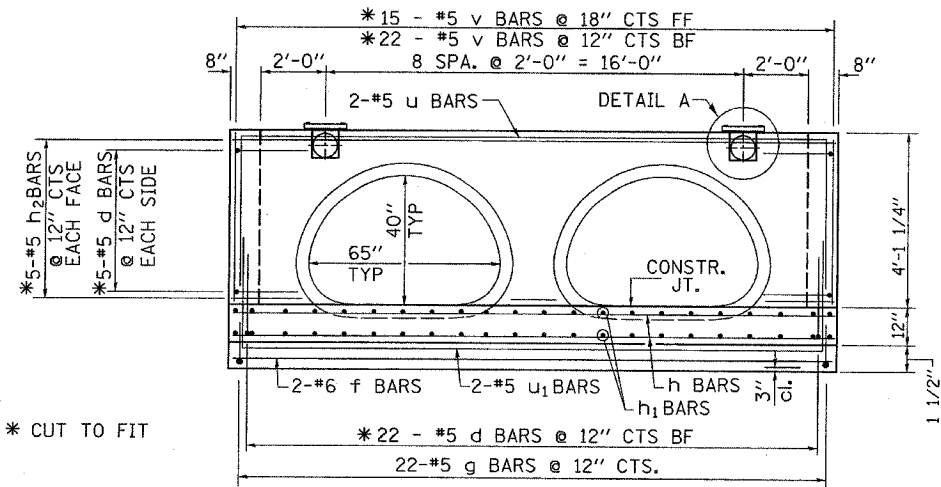
Bolts, Nuts, and Washers shall be in accordance with Article 505 of the Standard Specification and shall be galvanized.

See Plan & Profile Sheet for more information.

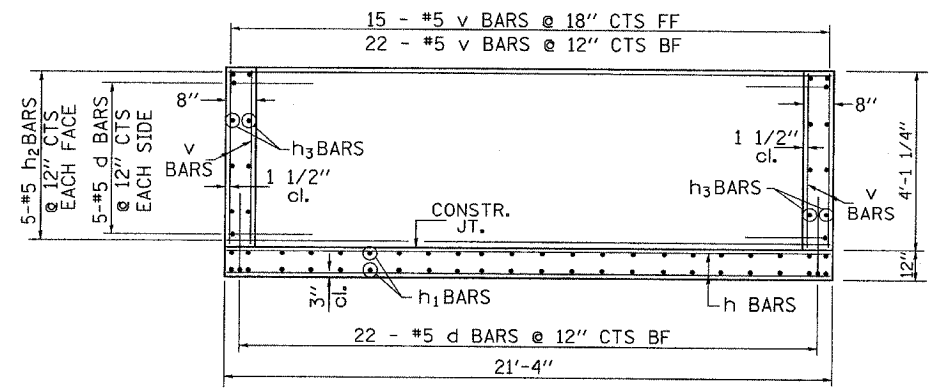
See Cross Section Sheet for more information.



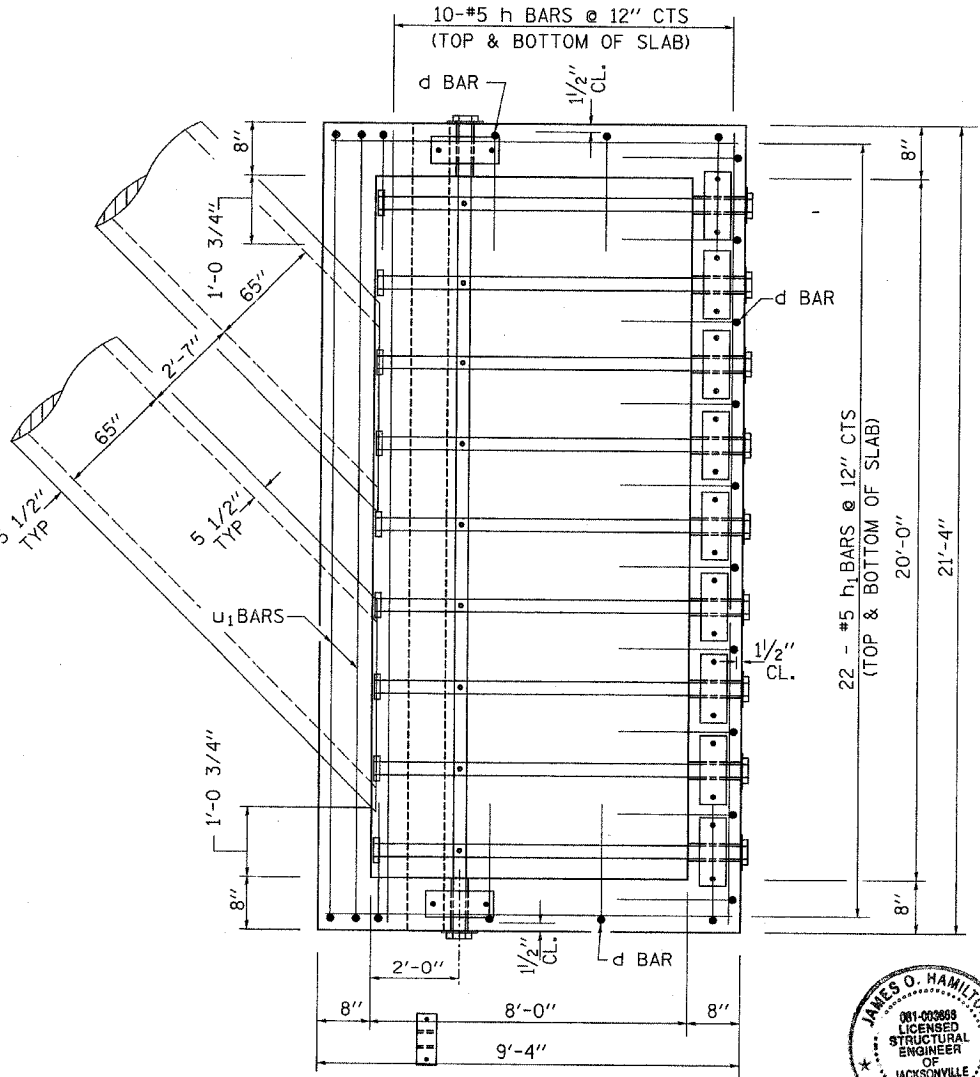
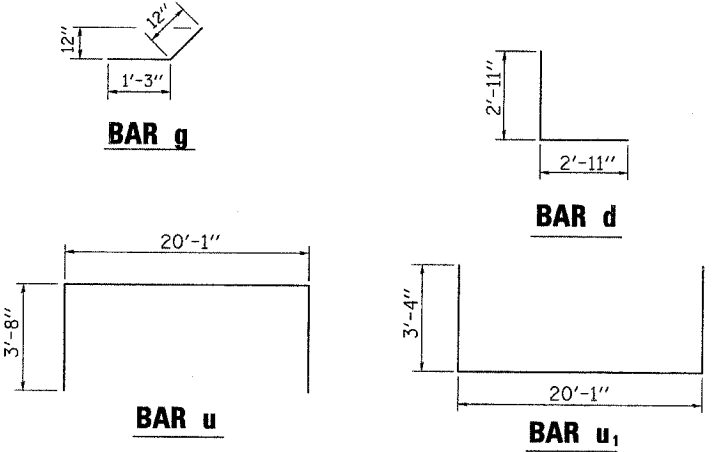
SIDEWALLS



SECTION A-A



SECTION B-B



BOTTOM SLAB

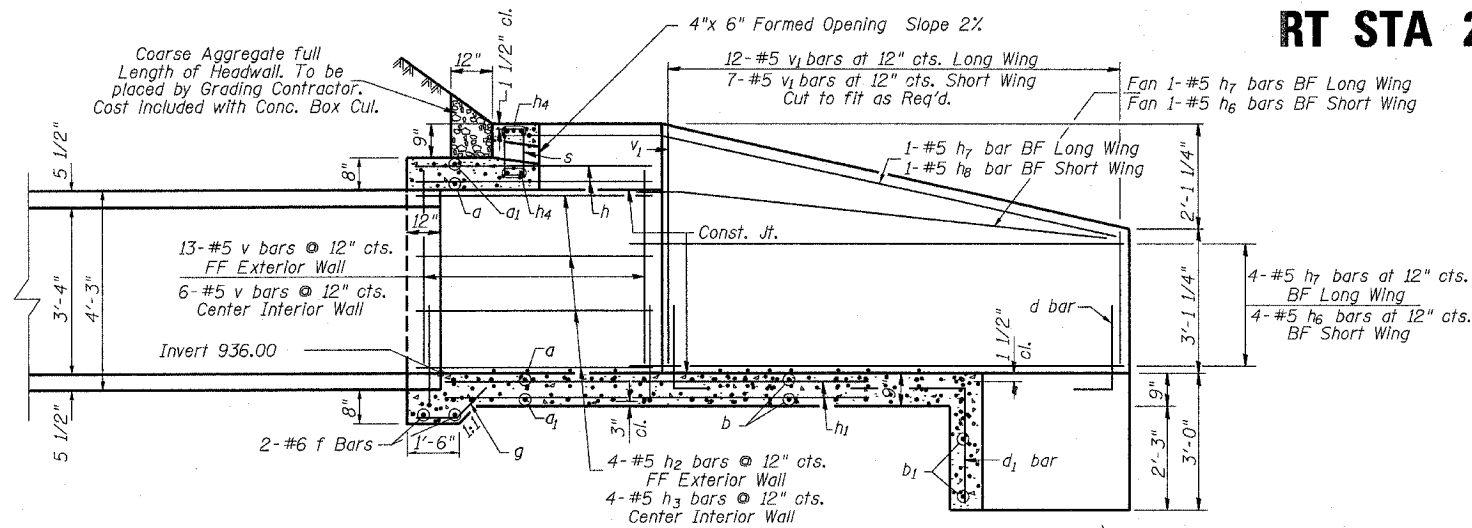
CUT ARCHED PIPES TO FIT IN FIELD



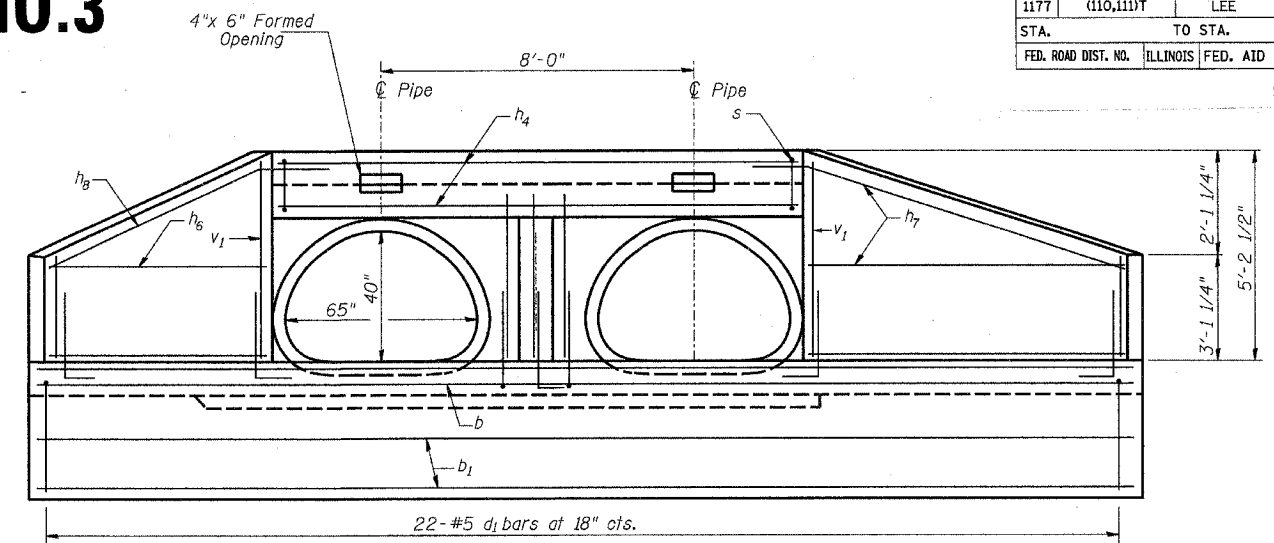
James O. Hamilton
2/15/08
Expires 11/30/08

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

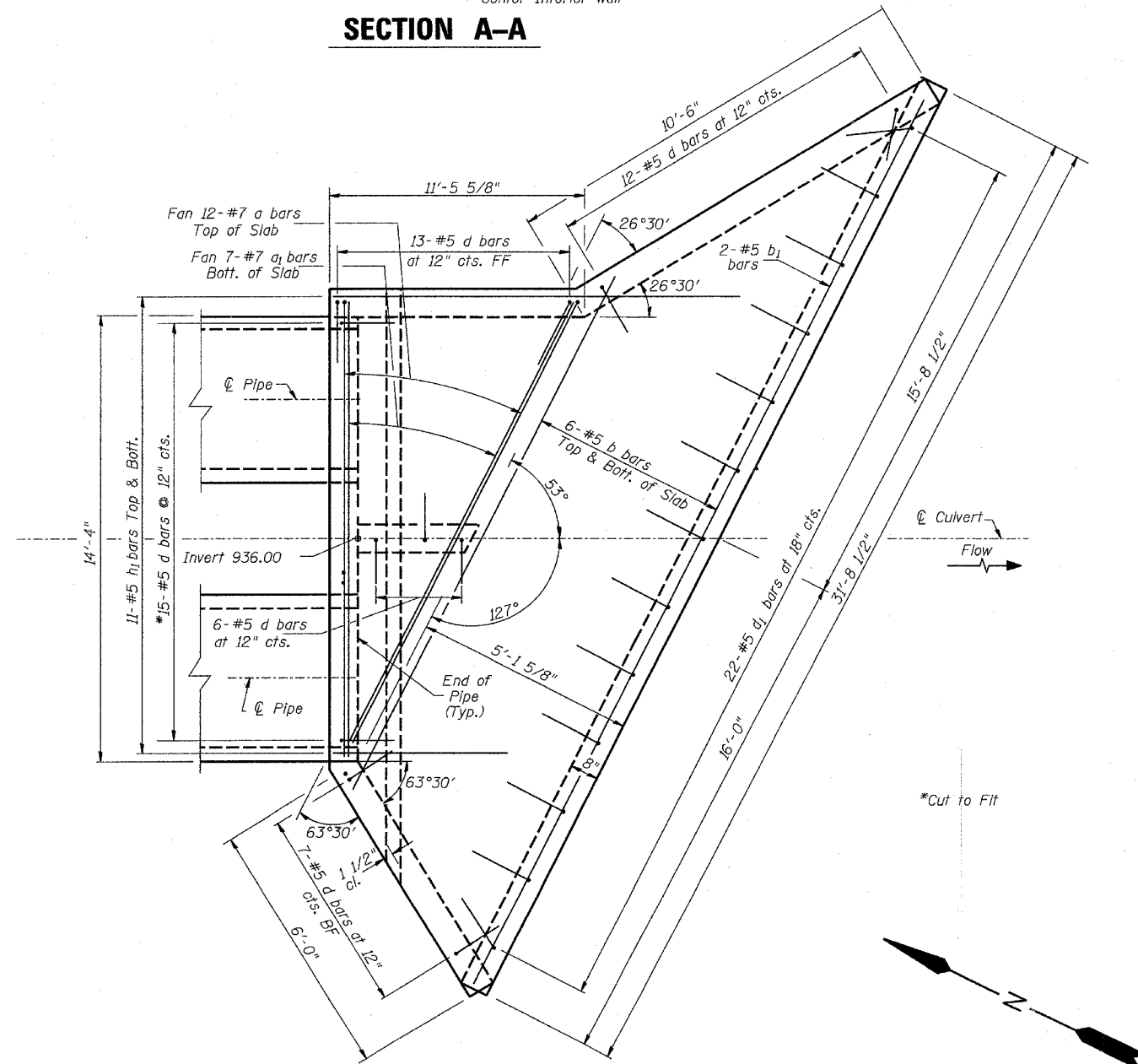
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RT STA 277+15



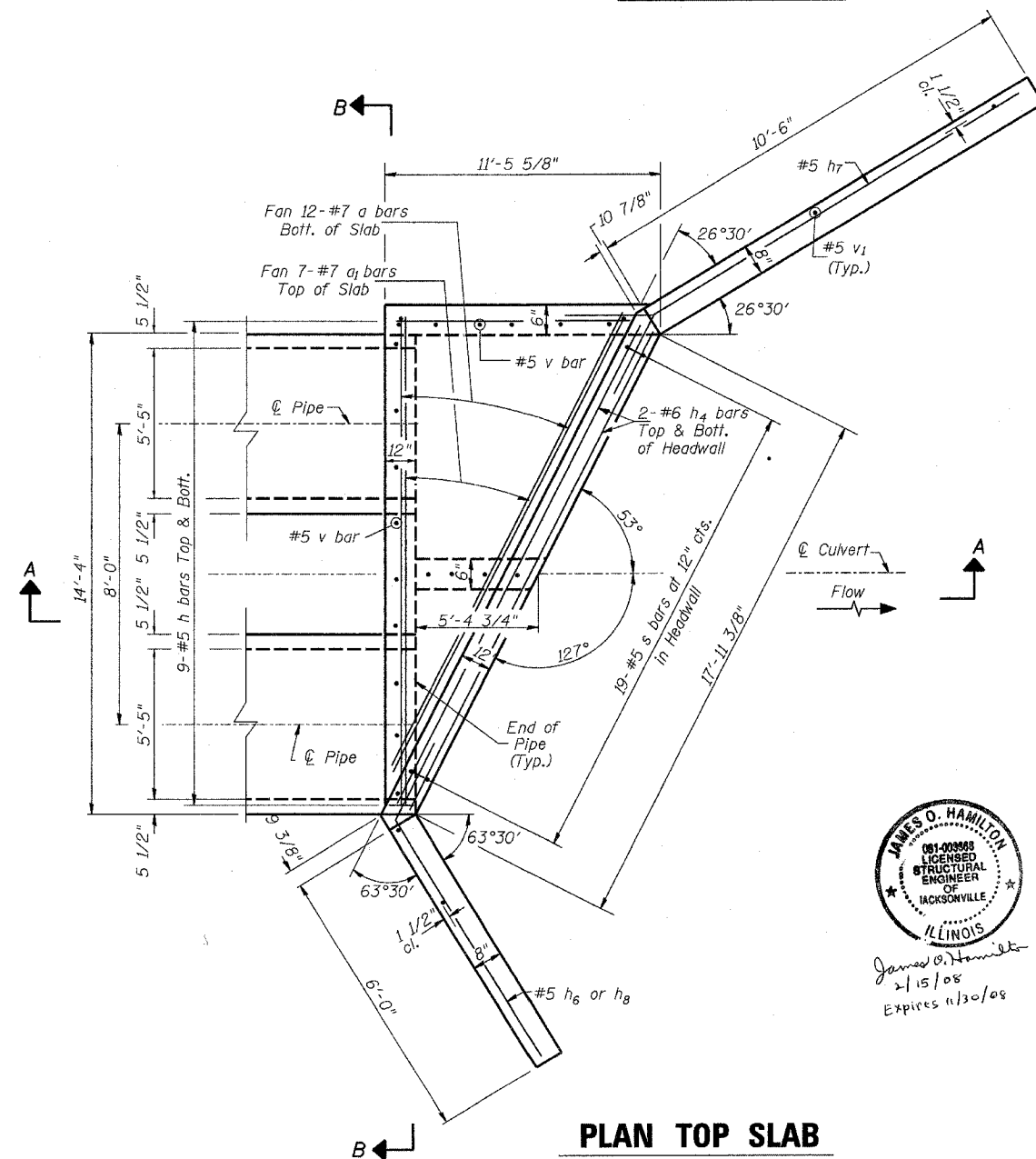
SECTION A-A



END VIEW



PLAN BOTTOM SLAB



PLAN TOP SLAB

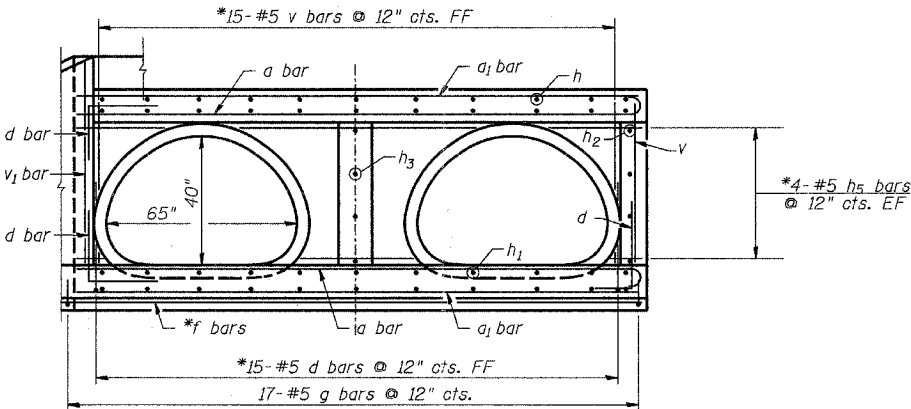
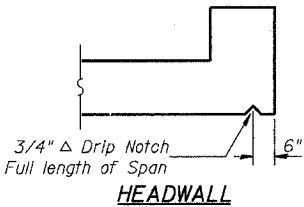


James O. Hamilton
2/15/08
Expires 11/30/08

END SECTION NO.3
RT STA 277+15

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	30
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET 2 OF 2



SECTION B-B

*Cut to fit

BILL OF MATERIAL

BAR	SIZE	NO.	LENGTH	SHAPE
a	7	24	15'-7"	
a1	7	14	14'-9"	
b	5	6	49'-5"	
b1	5	2	31'-5"	
d	6	55	5'-6"	
d1	5	22	5'-2"	
f	6	2	17'-0"	
g	5	17	2'-3"	
h	5	9	11'-9"	
h1	5	11	19'-9"	
h2	5	4	11'-2"	
h3	5	4	6'-1"	
h4	6	4	17'-8"	
h5	5	8	14'-7"	
h6	5	5	6'-3"	
h7	5	6	13'-4"	
h8	5	1	8'-5"	
v	5	34	4'-2"	
v1	5	19	5'-0"	
s	5	19	4'-7"	
DESCRIPTION			UNIT	QTY
CONCRETE STRUCTURES			CU YD	15.0
REINFORCEMENT BARS			LB	3,290

GENERAL NOTES:

This work shall be done according to the applicable portion of 503, 508, and 540 of the Standard Specifications.

Exposed edges shall be beveled 3/4 ".

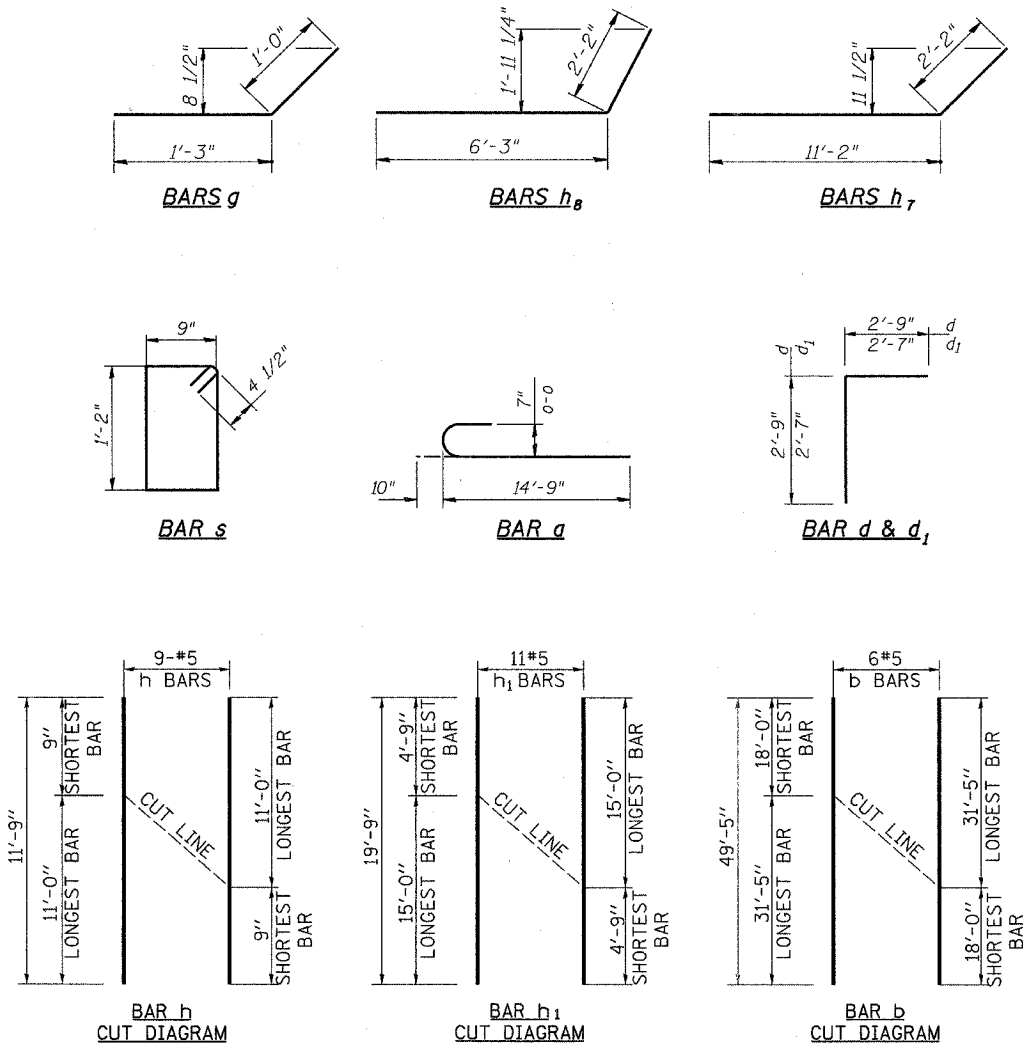
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

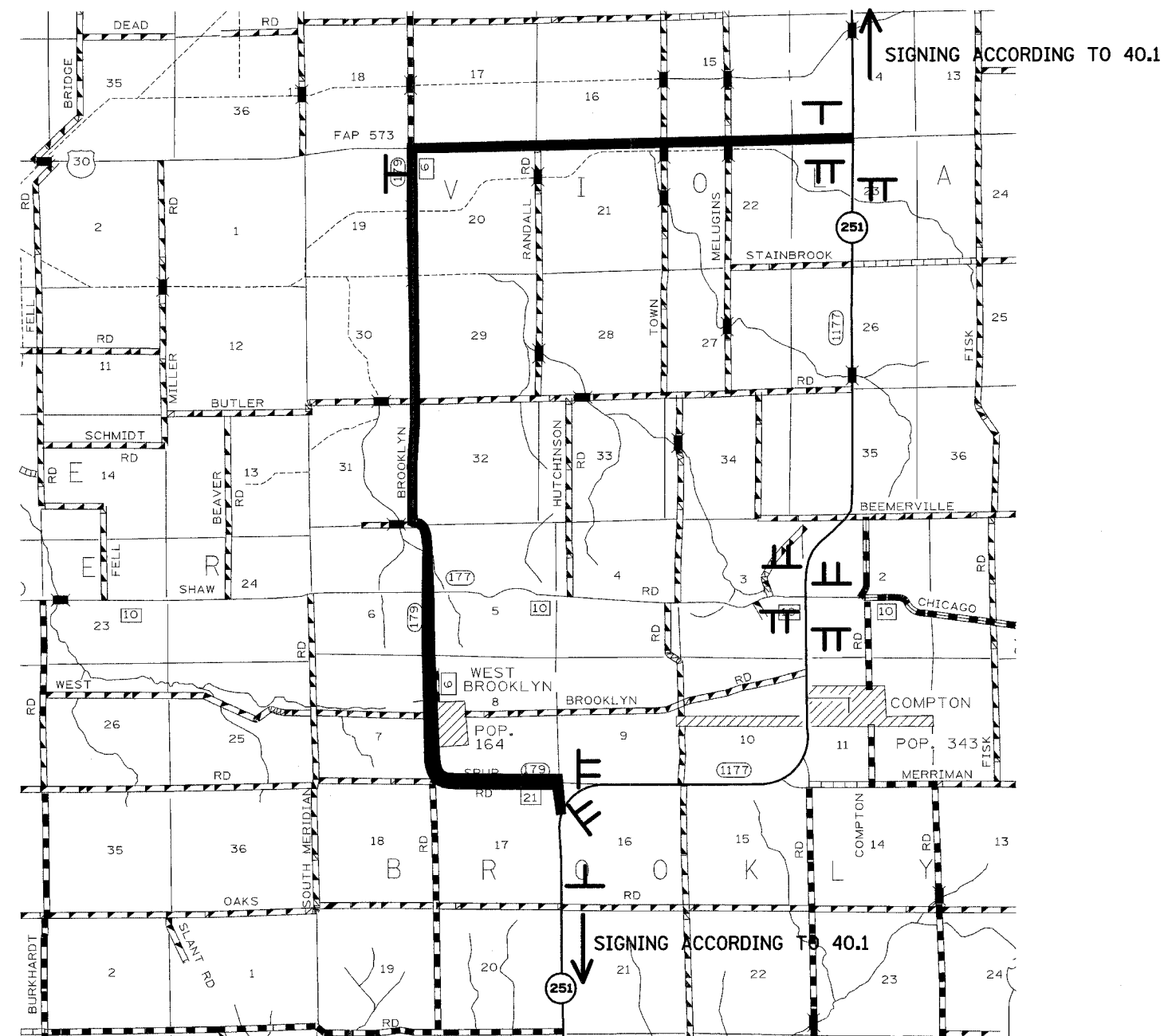
Order h, h₁, & b bars full length and cut to fit in field. Use remainder in opposite face.

For backfilling and embankment, See Standard Specifications. All dimensions are in millimeters (mm) unless noted.

See Plan & Profile Sheet for more information.

See Cross Section Sheet for more information.





DETOUR ROUTE

TYPE III BARRICADES WITH FLASHERS
STAGGERED AS SHOWN IN STANDARD 701901.

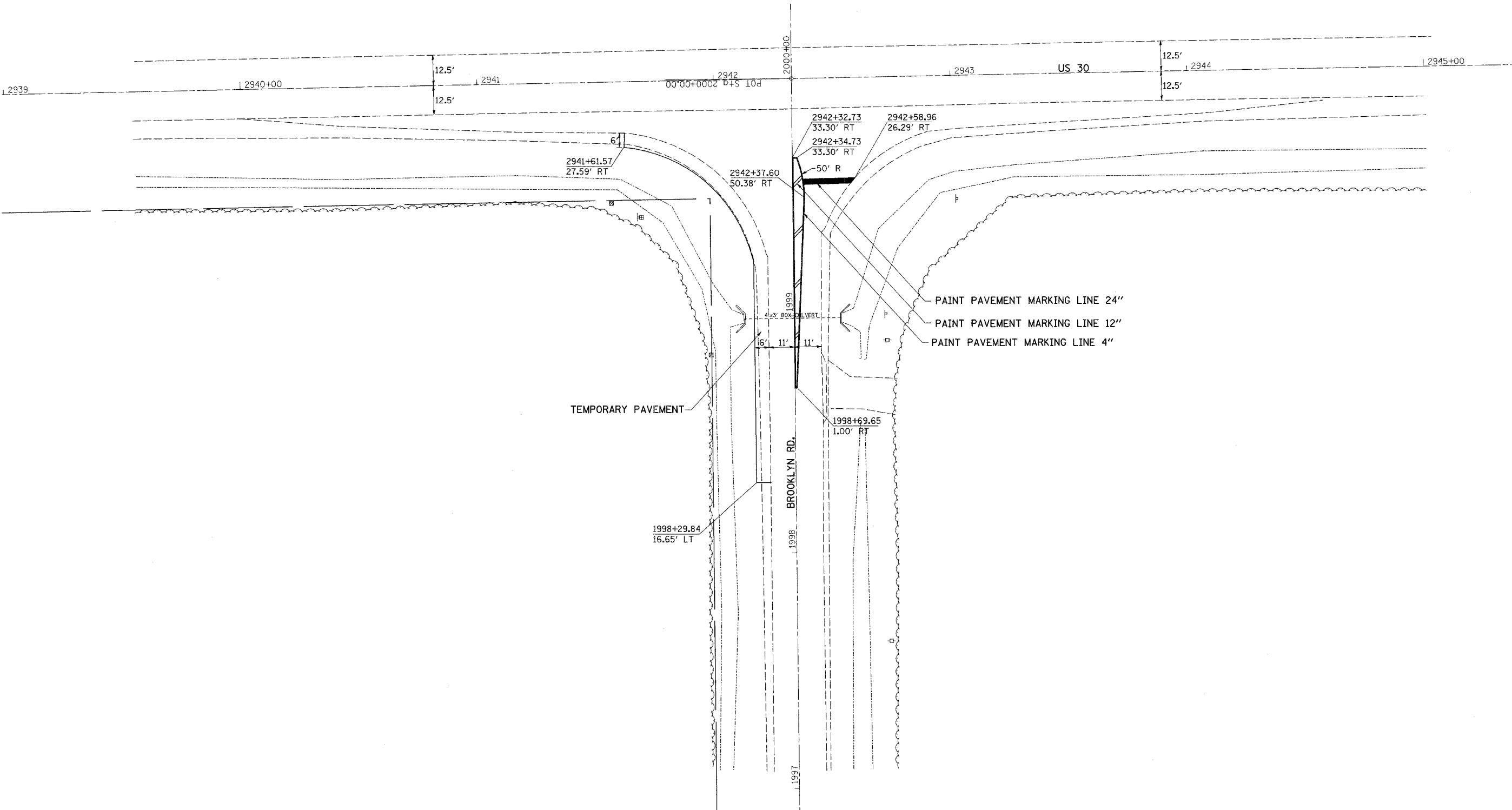
ROAD CLOSED X MILE(S) SIGN
WITH SUPPLEMENTAL PLATES
AS REQUIRED IN THE SPECIAL PROVISIONS.

DEVICES AT SHAW RD. / CHICAGO RD.
SHALL ONLY BE REQUIRED IN THE DIRECTION
OF THE CLOSURE.

THIS SHALL BE PAID FOR AT THE CONTRACT
UNIT PRICE PER LUMP SUM
FOR TRAFFIC CONTROL FOR ROAD CLOSURE.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	32
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

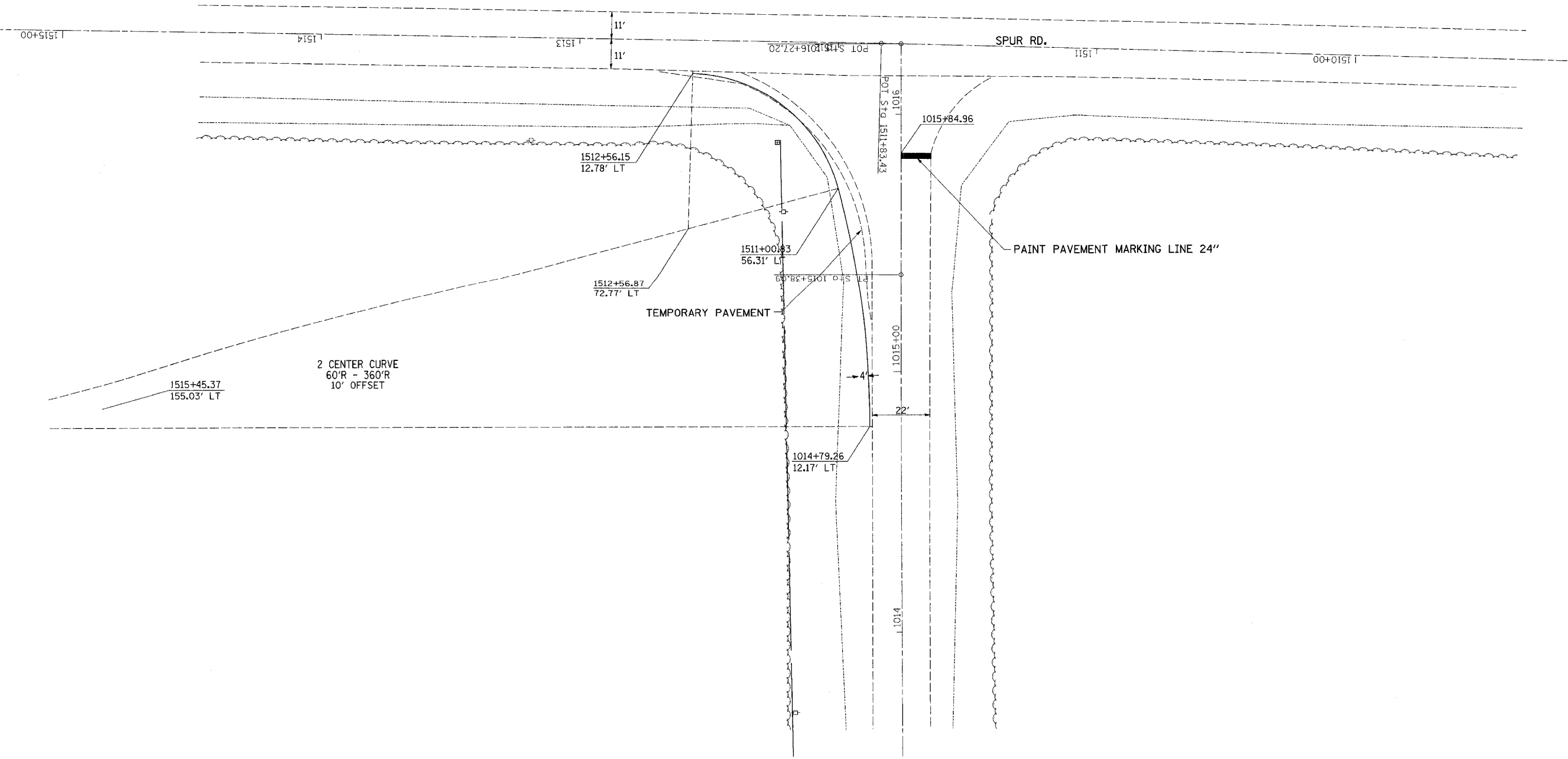
US 30 & BROOKLYN RD.



PLOT DATE = Tue Feb 28 10:30:17 2006
PLOT NAME = C:\Users\user\Documents\64C72\110111T.dgn
PLOT SCALE = 20.00000 / 1" = 100.00000'
USER NAME = cushmanb

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	33
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

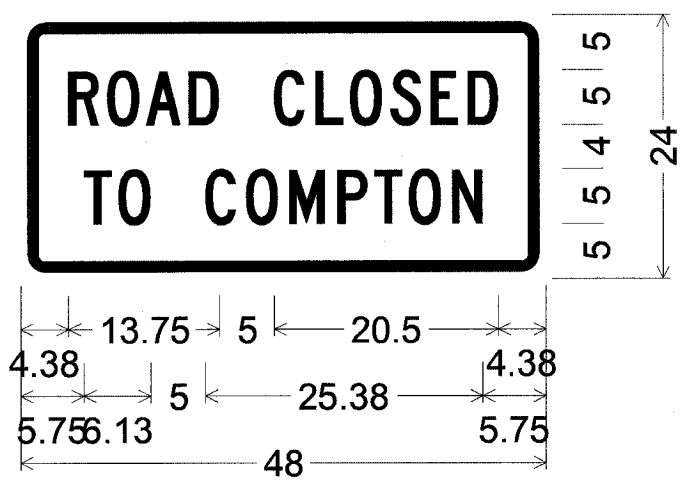
SPUR RD.



PLOT DATE = Tue Feb 28 10:38:17 2006
PLOT SCALE = 20.0000' / IN.
USER NAME = cushmanb

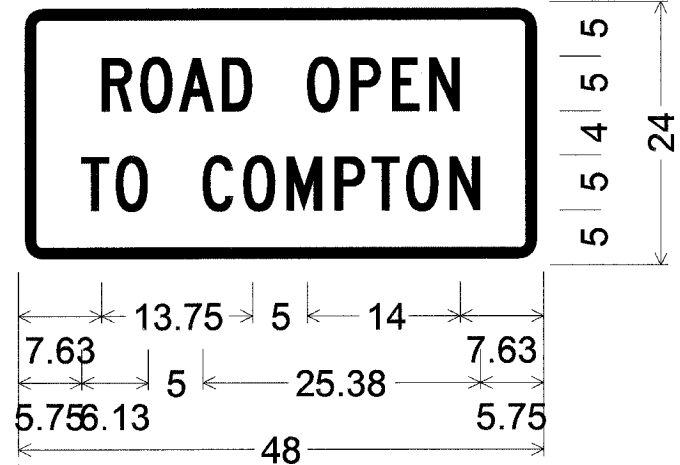
SIGNING DETAILS

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	34
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



2.25" Radius, 1.00" Border, 0.63" Indent, Black on Orange;
[ROAD CLOSED] C 2K;
[TO COMPTON] C 2K;
Table of letter and object lefts.

R	O	A	D				
4.38	7.88	11.50	15.38				
C		L	O	S	E	D	
23.13		27.00	30.13	33.75	37.50	40.88	
T	O						
5.75	8.88						
C		O	M	P	T	O	N
16.88		20.63	24.50	28.88	32.38	35.50	39.38



2.25" Radius, 1.00" Border, 0.63" Indent, Black on Orange;
[ROAD OPEN] C 2K;
[TO COMPTON] C 2K;
Table of letter and object lefts.

R	O	A	D				
7.63	11.13	14.75	18.63				
	O	P	E	N			
	26.38	30.38	34.13	37.63			
T	O						
5.75	8.88						
	C	O	M	P	T	O	N
	16.88	20.63	24.50	28.88	32.38	35.50	39.38

PLOT DATE = Tue Feb 26 10:30:18 2008
PLOT SCALE = 20.0000 / IN.
USER NAME = cushmanb

BORING LOGS

CONTRACT NO. 64C72

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	G10,1117	LEE	59	35
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Illinois Department of Transportation

Division of Highways

Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 2

Date 6/28/06

ROUTE IL 251DESCRIPTION P92-001-07 Box culvert on IL 251, 0.5 m. S. of Cottage Hill RoadLOGGED BY P. Drezen

SECTION LOCATION Brooklyn Twp. - 32 E, SEC. , TWP. 37N, RNG. 1E

COUNTY LeeDRILLING METHOD Hollow Stem AugerHAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 052-1079

Station

BORING NO. B-1b

Station +20 N

Offset 12.00ft W CL

Ground Surface Elev. 99.50 ft

D
P
T
H

E
L
W
S

B
O
S
Qu

U
C
S
T

M
O
I
S
T

Surface Water Elev. Dry ft

Stream Bed Elev. 93.00 ft

Groundwater Elev.: First Encounter 83.0 ft ▼

Upon Completion Dry ft

After Hrs. ft

MEDIUM brown LOAM

STIFF brown SILTY LOAM

MEDIUM brown SILTY LOAM

STIFF gray LOAM

MEDIUM gray SILTY CLAY with TILL

MEDIUM gray fine moist SAND with SILTY CLAY lens

STIFF gray SILTY CLAY

STIFF gray SILTY CLAY

STIFF gray SILTY CLAY with TILL

STIFF gray SILTY CLAY with TILL

STIFF gray SILTY CLAY with TILL

STIFF gray SILTY CLAY with TILL

STIFF gray SILTY CLAY with TILL

STIFF gray SILTY CLAY with TILL

STIFF gray SILTY CLAY with TILL

78.00

75.50

73.00

70.50

68.00

65.50

63.00

60.50

1

2

3

5

7

8

3

4

6

9

1.7

1.8

1.8

1.2

1.4

1.2

1.7

1.7

14.0

13.0

11.0

14.0

13.0

13.0

13.0

9.0

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation

Division of Highways

Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 2 of 2

Date 6/28/06

ROUTE IL 251DESCRIPTION P92-001-07 Box culvert on IL 251, 0.5 m. S. of Cottage Hill RoadLOGGED BY P. Drezen

SECTION LOCATION Brooklyn Twp. - 32 E, SEC. , TWP. 37N, RNG. 1E

COUNTY LeeDRILLING METHOD Hollow Stem AugerHAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 052-1079

Station

BORING NO. B-1b

Station +20 N

Offset 12.00ft W CL

Ground Surface Elev. 99.50 ft

D
P
T
H

E
L
W
S

B
O
S
Qu

U
C
S
T

M
O
I
S
T

Surface Water Elev. Dry ft

Stream Bed Elev. 93.00 ft

Groundwater Elev.: First Encounter 83.0 ft ▼

Upon Completion Dry ft

After Hrs. ft

STIFF gray SILT CLAY with TILL

End of Boring

3

4

7

1.7

11.0

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

PLOT DATE = Tue Feb 28 18:31:26 2006
PLOT SCALE = 1/8" = 10' IN
USER NAME = cshahenbv

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
		SCALE: VERT. HORIZ. DATE	DRAWN BY CHECKED BY

BORING LOGS

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	37
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

[illegible]

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ. DATE
DRAWN BY CHECKED BY		

BORING LOGS

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PLOT DATE = Tue Feb 26 10:31:26 2008
FILE NAME = c:\projects\p200107\00107log.sgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = cushmanb
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Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation D-2

SOIL BORING LOG

Page 1 of 2

Date 6/28/06

ROUTE IL 251 DESCRIPTION P92-001-07 Box culvert on IL 251, 0.2 m. E. of Carnahan Road LOGGED BY P. Drezen

SECTION LOCATION Brooklyn Twp. - 10 SW, SEC. , TWP. 37N, RNG. 1E

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 052-1071

Station

BORING NO. B-1c

Station +30 E

Offset 11.00ft N CL

Ground Surface Elev. 100.20 ft

D E P T H	B L O W S	U C S	M O I S T
		Qu	T

Surface Water Elev.	ft
Stream Bed Elev.	92.00 ft
Groundwater Elev.:	
First Encounter	ft
Upon Completion	Dry ft
After	Hrs. ft

D E P T H	B L O W S	U C S	M O I S T
		Qu	T

MEDIUM brown LOAM

MEDIUM black LOAM

MEDIUM black SILTY LOAM with
ORGANICS

VERY STIFF brown LOAM with
TILL and ORGANICS

VERY STIFF brown SILTY LOAM

STIFF brown SILTY CLAY with
TILL

STIFF brown SILTY CLAY with
TILL

STIFF brown SILTY CLAY with
TILL

STIFF brown SILTY CLAY with
TILL

STIFF brown SILTY CLAY with
TILL

STIFF brown SILTY CLAY with
TILL

STIFF brown SILTY CLAY with
TILL

STIFF brown SILTY CLAY with
TILL

STIFF brown SILTY CLAY with
TILL

VERY STIFF brown SILTY CLAY
with TILL

STIFF brown SILTY CLAY with
TILL

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

BBS, from 137 (Rev. 8-99)

[illegible][illegible]

BORING LOGS

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	39
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Illinois Department of Transportation

Division of Highways

Illinois Department of TransportationD-2

SOIL BORING LOG

Page 1 of 1

Date 6/28/06

ROUTE IL 251

DESCRIPTION P92-001-07 Box culvert on IL 251, 0.2 m. E. of Camahan Road

LOGGED BY P. Drezen

SECTION

LOCATION Brooklyn Twp. - 10 SW, SEC., TWP. 37N, RNG. 1E

COUNTY Lee

DRILLING METHOD Hollow Stem Auger

HAMMER TYPE B-53 Diodrich Automatic

STRUCT. NO.

Station

BORING NO.

Station

Offset

Ground Surface Elev.

D

E

P

T

H

B

L

O

W

S

U

C

S

Qu

M

O

I

S

T

Surface Water Elev.

Stream Bed Elev.

Groundwater Elev.:
First Encounter
Upon Completion
After

ft

ft

ft

ft

Hrs.

(ft)

(6")

(tsf)

(%)

STIFF brown LOAM

94.00

1.5

14.0

P

VERY STIFF brown/black LOAM

92.50

4

2.3

33.0

B

VERY STIFF brown LOAM with TILL

90.00

1

2.3

14.0

B

VERY SOFT brown moist SANDY LOAM

87.50

1

0.1

23.0

P

VERY STIFF brown SILTY CLAY with TILL

85.00

3

2.1

13.0

B

STIFF brown SILTY CLAY with TILL

82.50

4

1.8

13.0

B

STIFF brown SILTY CLAY with TILL

80.00

4

1.7

13.0

B

STIFF brown SILTY CLAY with TILL

77.50

4

1.7

13.0

B

STIFF brown SILTY CLAY with TILL

75.00

5

1.8

13.0

B

STIFF brown SILTY CLAY with TILL

72.50

4

1.2

12.0

B

VERY STIFF brown SILTY LOAM with TILL

70.00

6

2.1

12.0

B

VERY STIFF brown SILTY LOAM with TILL

67.50

7

2.0

11.0

B

STIFF brown LOAM with fine SAND and TILL

65.00

7

1.7

12.0

B

VERY STIFF brown LOAM with TILL

62.50

8

2.7

11.0

B

STIFF brown LOAM with TILL

60.00

9

1.8

12.0

B

VERY STIFF brown LOAM with TILL

57.50

9

2.1

13.0

B

End of Boring

57.50

11

B

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

BBS, from 137 (Rev. 8-99)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	SCALE: VERT. HORIZ.	DRAWN BY CHECKED BY

BORING LOGS

PLT DATE = Tue Feb 28 10:31:28 2006
PLT SCALE = 1:100
PLT SCALE = 50:1000 / IN
USER NAME = cashmanbw

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation D-2

SOIL BORING LOG

Page 1 of 1

Date 6/30/06

ROUTE IL 251 DESCRIPTION P92-001-07 Box culvert on IL 251, 0.1 m. N. of Stain Brook Road LOGGED BY P. Drezen

SECTION LOCATION Viola Twp. - 23 SW, SEC. 1, TWP. 38N, RNG. 1E

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 052-1065

Station

BORING NO. B-1a

Station +16 N

Offset 14.00 ft E.C.L.

Ground Surface Elev. 99.50 ft

D E P T H	B L O W S	U C S	M O I S T U R
(ft)	((6"))	(tsf)	(%)

Surface Water Elev.	ft
Stream Bed Elev.	94.70 ft
Groundwater Elev.:	
First Encounter	76.5 ft ▼
Upon Completion	Wash ft
After	Hrs. ft

D E P T H	B L O W S	U C S	M O I S T U R
(ft)	((6"))	(tsf)	(%)

MEDIUM brown LOAM

VERY STIFF brown SILTY CLAY
with TILL (continued)

6	2.7	13.0
9	B	

SOFT brown SILTY LOAM with
ORGANICS and SAND lenses

LOOSE brown coarse SAND

3		
4		
5		

SOFT black SILTY CLAY

MEDIUM brown coarse SAND

4		
6		
8		

SOFT black SILTY CLAY with
TILL

MEDIUM brown coarse SAND
with GRAVEL

7		
9		
12		

MEDIUM brown SILTY CLAY with
TILL

Wash
DENSE brown coarse SAND with
GRAVEL

14		
15		
24		

MEDIUM brown SILTY CLAY with
TILL

Wash
DENSE gray coarse SAND

9		
15		
18		

VERY STIFF brown SILTY CLAY
with TILL

Wash
MEDIUM gray coarse SAND with
GRAVEL

12		
13		
12		

VERY STIFF brown SILTY CLAY
with TILL

Wash
DENSE gray coarse SAND

16		
20		
19		

End of Boring

61.00		
-------	--	--

BBS, from 137 (Rev. 8-99)

Illinois Department
of Transportation

Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 6/30/06

P92-001-07 Box culvert on IL 251, 0.1 m. N. of
Stain Brook Road

ROUTE IL 251 DESCRIPTION LOCATION VIOLA TWP. - 23 SW, SEC. , TWP. 38N, RNG. 1E

LOGGED BY P. Drezen

SECTION COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 052-1065

Station

BORING NO. B-2a

Station +14 S

Offset 31.00R W CL

Ground Surface Elev. 96.10

D	B	U	M
E	L	C	O
P	W	S	I
T	S	Qu	S
H	S	Qu	T

Surface Water Elev. ft

Stream Bed Elev. 94.10 ft

Groundwater Elev.: First Encounter 83.1 ft

Upon Completion Wash ft

After Hrs.

D	B	U	M
E	L	C	O
P	W	S	I
T	S	Qu	S
H	S	Qu	T

VERY STIFF black LOAM

VERY STIFF brown SILTY CLAY with TILL (continued)

94.10

74.60

VERY STIFF brown LOAM with ORGANICS

MEDIUM brown coarse SAND

92.60

72.60

MEDIUM gray SILTY CLAY with ORGANICS

MEDIUM brown coarse SAND

90.10

70.10

MEDIUM brown SILTY LOAM with TILL

Wash DENSE brown fine SAND

87.60

67.60

VERY STIFF brown SILTY CLAY with TILL

Wash DENSE gray coarse SAND

85.10

65.10

VERY STIFF brown SILTY CLAY with TILL

End of Boring

82.60

VERY STIFF brown SILTY CLAY with TILL

80.10

VERY STIFF brown SILTY CLAY with TILL

77.60

VERY STIFF brown SILTY CLAY with TILL

74.60

VERY STIFF brown SILTY CLAY with TILL

71.60

VERY STIFF brown SILTY CLAY with TILL

68.60

65.60

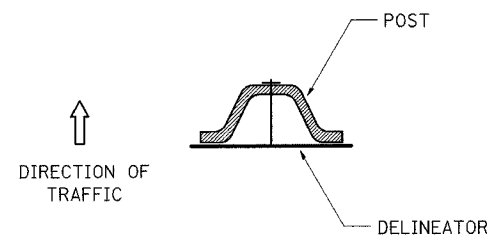
BBS, from 137 (Rev. 8-99)

REVISONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ.
		DRAWN BY _____
		CHECKED BY _____

BORING LOGS

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PLOT SCALE = 50.0000 / IN.
USER NAME = cushmanbw
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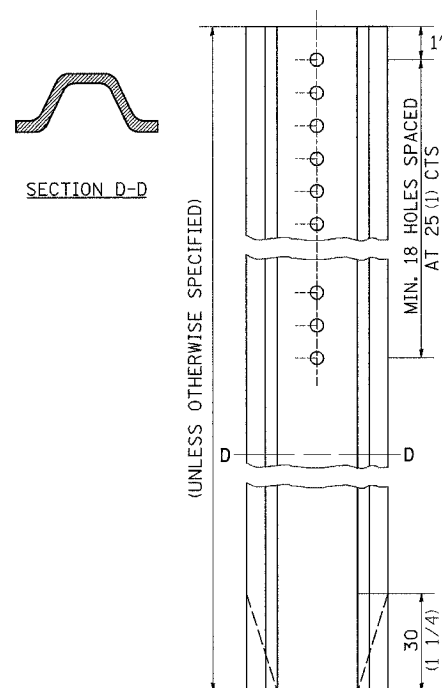
DELINEATOR AND POST ORIENTATION



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.

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

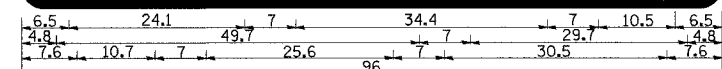
REVISED - 11-01-07



DELINEATOR AND POST ORIENTATION 37.4

ROAD CLOSED TO OVERSIZED LOADS

ROAD CLOSED TO
OVERSIZED LOADS
XX MILES AHEAD



Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border, Black on Orange;
[ROAD CLOSED TO] D; [OVERSIZED LOADS] D; [XX MILES AHEAD] D;
Table of letter and object lefts.

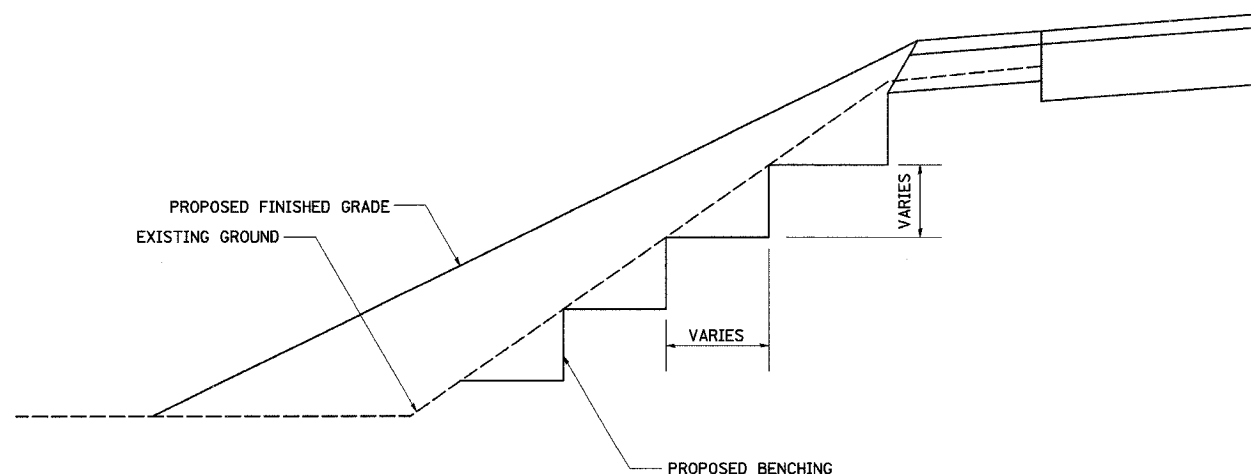
R	D	A	D	C	L	D	S	E	D	T	O
8.5	12.5	18.7	25.9	37.8	43.8	49.2	55.4	61.8	67.3	79.0	94.8
O	V	E	R	S	I	Z	E	D	L	D	A
4.8	11.0	17.6	23.1	29.2	35.5	38.2	44.3	49.8	51.5	57.1	73.3
X	X	M	I	L	E	S	A	H	E	A	D
7.8	13.6	26.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	78.6	83.7

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

ROAD CLOSED TO OVERSIZED LOADS 40.4

TYPICAL BENCHING ON EXISTING EMBANKMENT



TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

LETTERING FOR NAME PLATE

STATION
BUILT 200 BY
STATE OF ILLINOIS
RTE. SEC.
FA PROJECT
LOADING HS 20
STR. NO.

SEE STD. 515001

STATION	STRUCTURE NO.
28+64	052-1104
261+58	052-1103
277+15	052-1102
528+47	052-1101

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

REVISED - 11-01-07

LETTERING FOR NAME PLATE 89.4

TREE REPLACEMENT SCHEDULE

[illegible]

REvised - 8-10-05

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

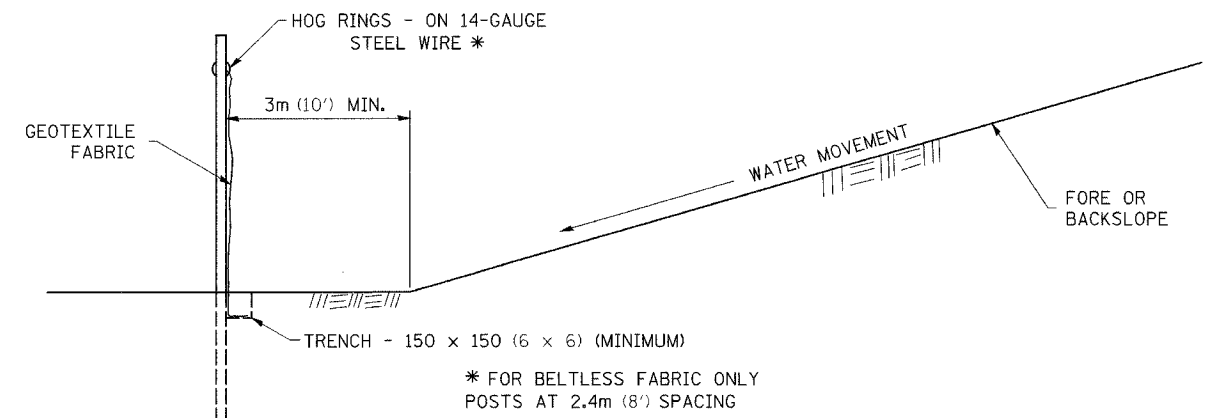
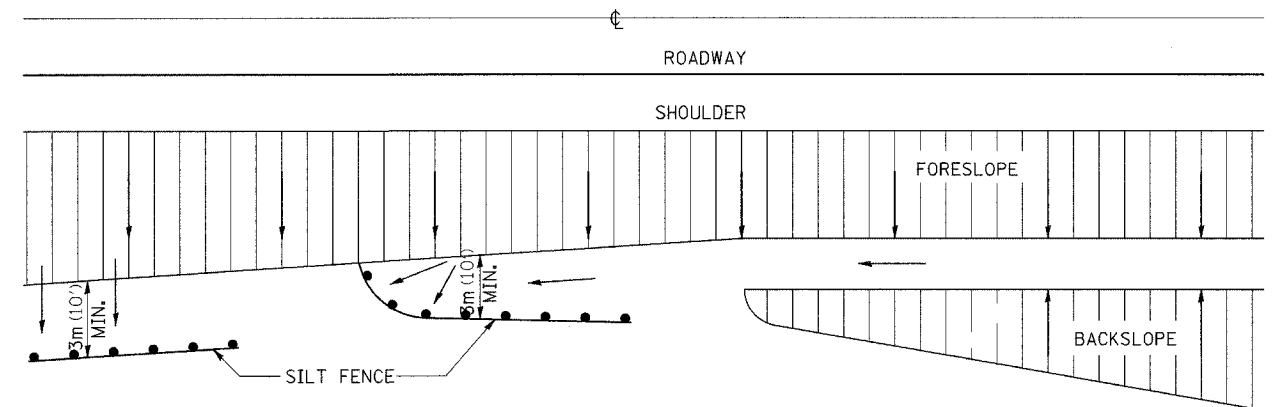
TREE REPLACEMENT SCHEDULE 90.4

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CONTRACT NO. 64C72

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	42
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL DETAILS FOR SILT FENCE

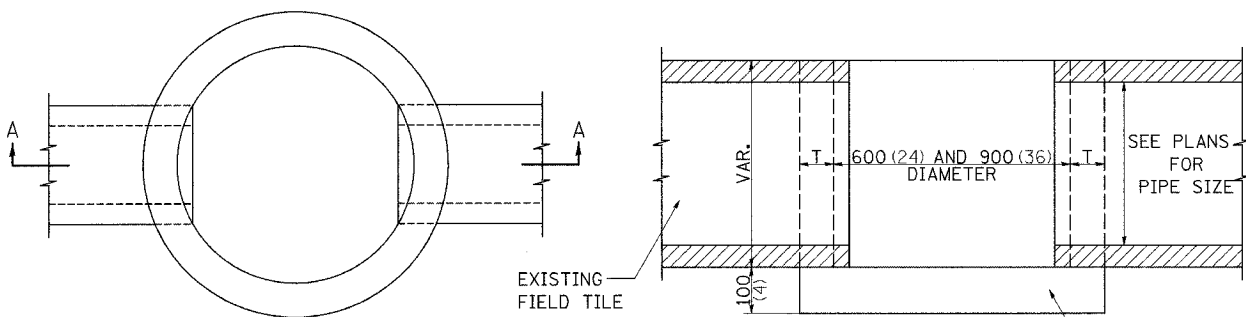
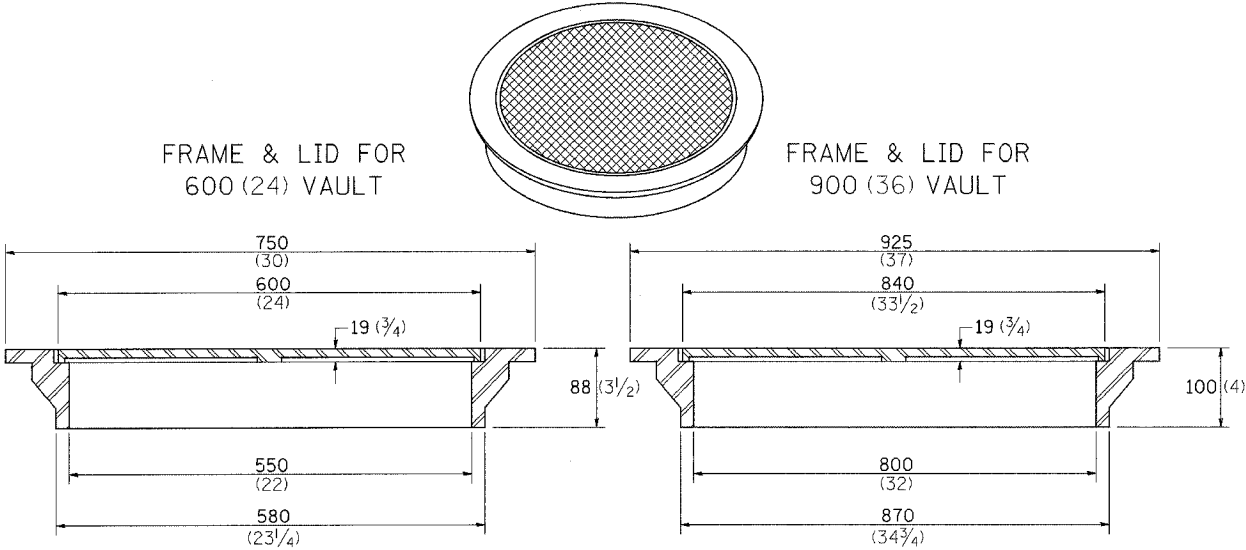


DETAILS OF SILT FENCE

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

EROSION CONTROL DETAILS FOR SILT FENCE 29.2

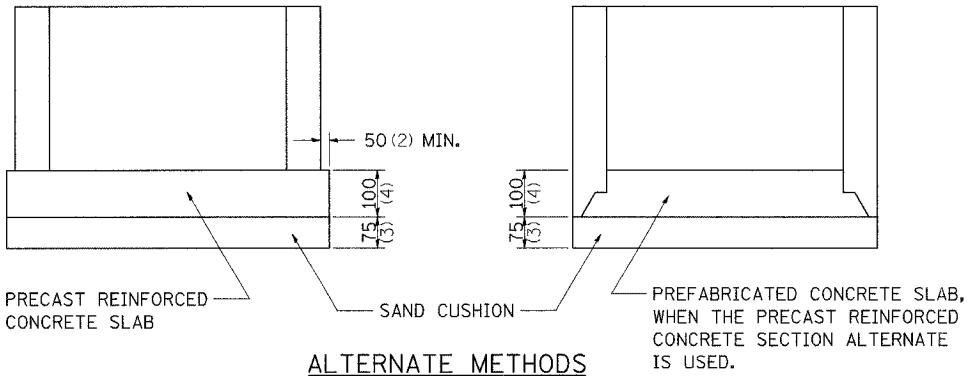
FIELD TILE JUNCTION VAULTS
600 (24) AND 900 (36) DIA.



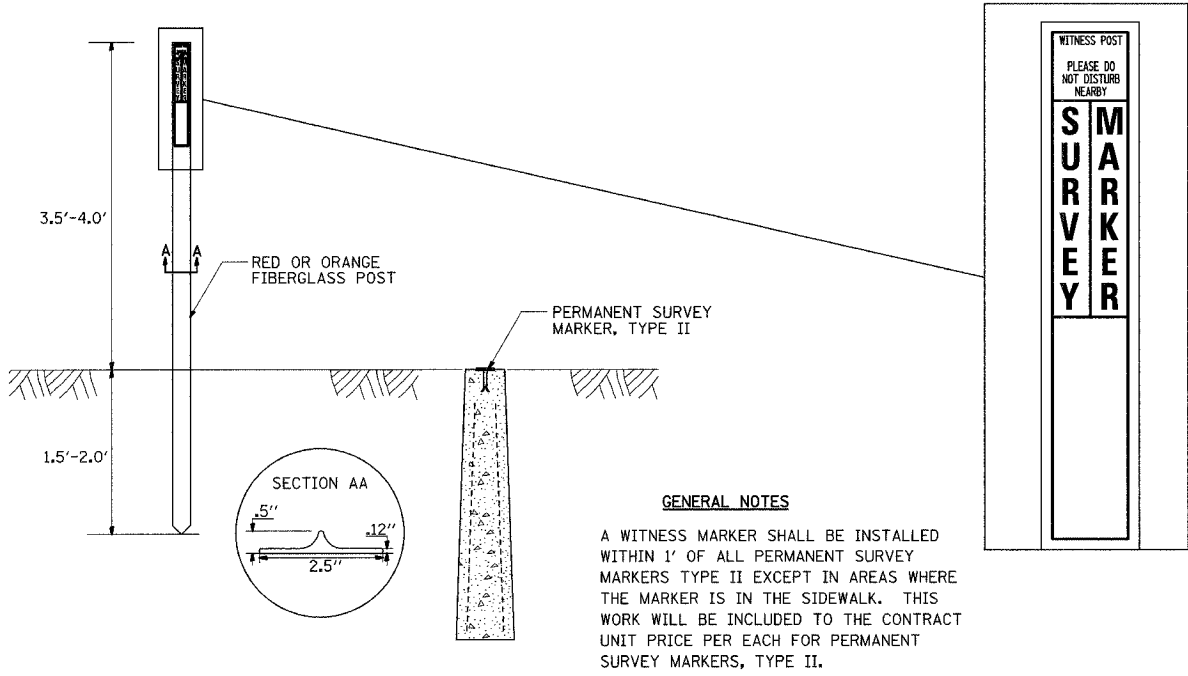
ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	200 (8)
CAST-IN-PLACE CONCRETE	150 (6)
CONCRETE MASONRY UNIT	125 (5)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

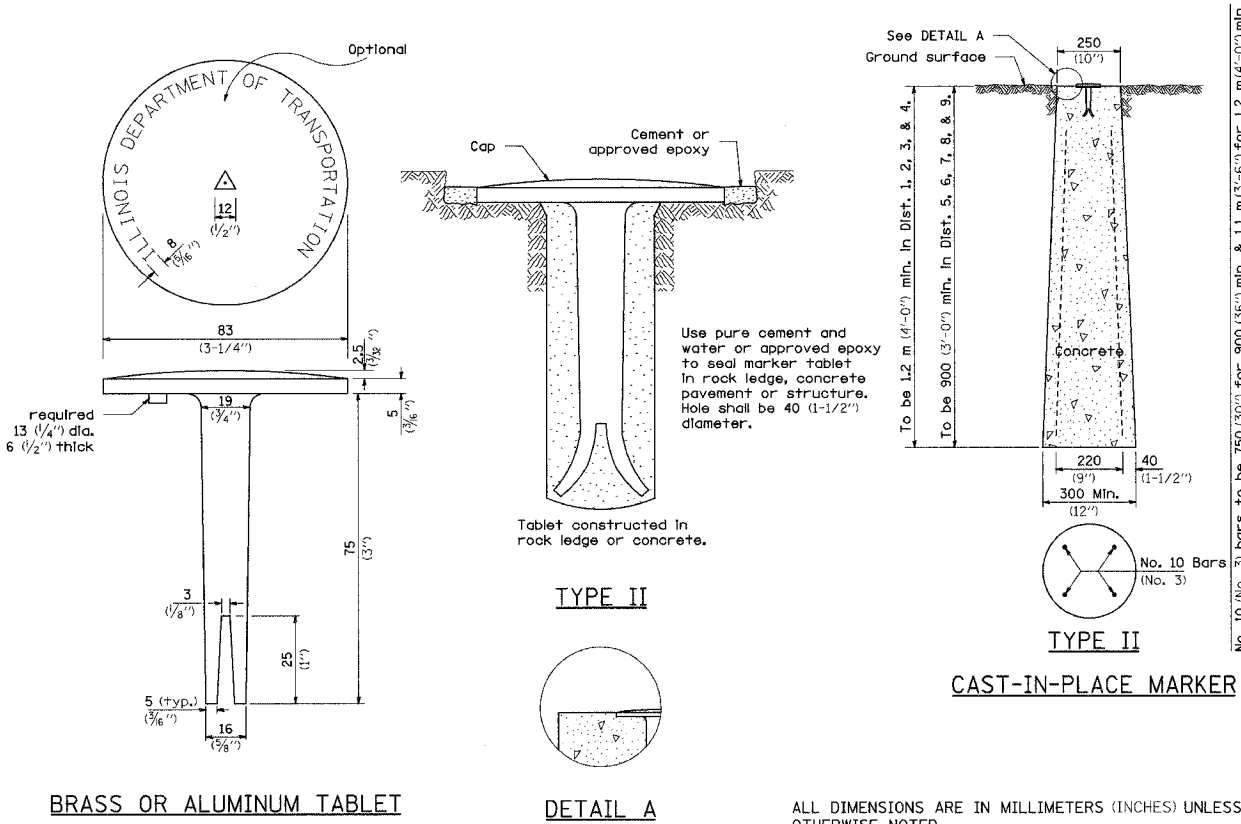
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



WITNESS MARKER FOR PERMANENT
SURVEY MARKERS, TYPE II



PERMANENT SURVEY MARKERS, TYPE II



REVISED - 6-26-06

STORM WATER POLLUTION PREVENTION PLAN
EROSION CONTROL PLAN

CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	44
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME: THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION
DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVAL AND REPLACEMENT OF 4 CULVERTS

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:
THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING.
THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 4.63 ACRES
PROPOSED R.O.W (TOTAL PARCEL AREA) 1.27 ACRES
DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 3.57 ACRES

SUPPORTING REPORTS AND PLANS
THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE
BIG BUREAU CREEK
GREEN RIVER

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES
STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:
PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

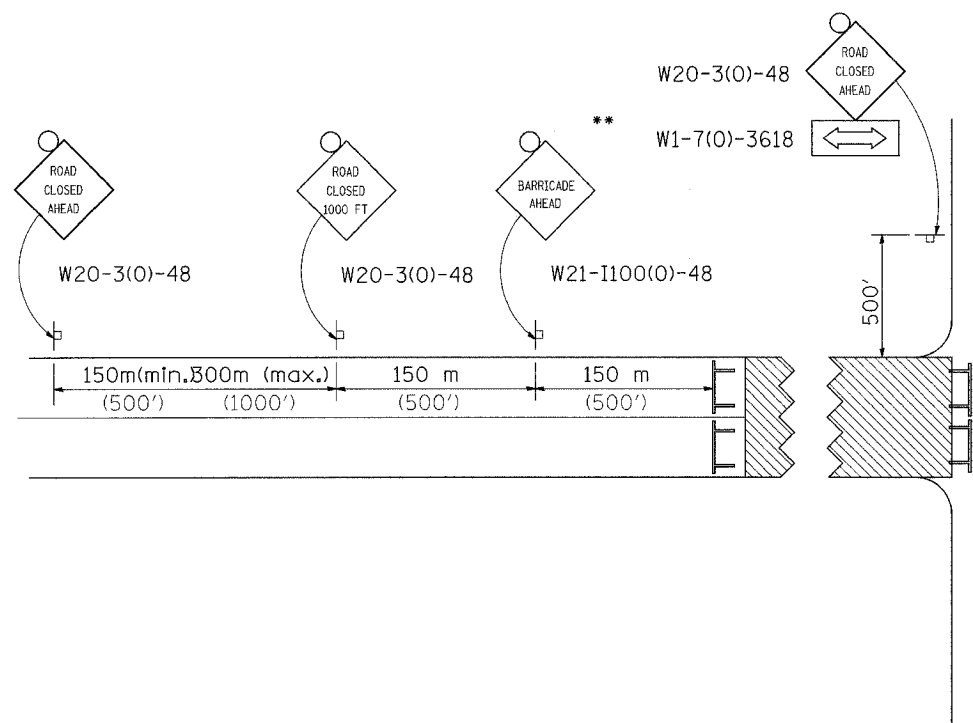
STABILIZATION PRACTICES DURING CONSTRUCTION:
AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

MAINTENANCE AFTER FINAL GRADING
TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEEDED.

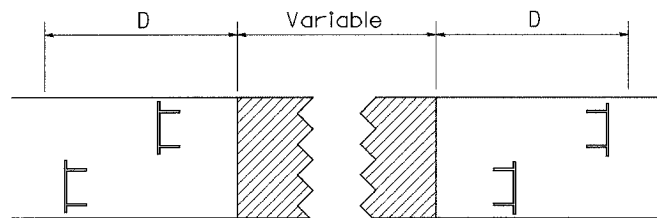
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

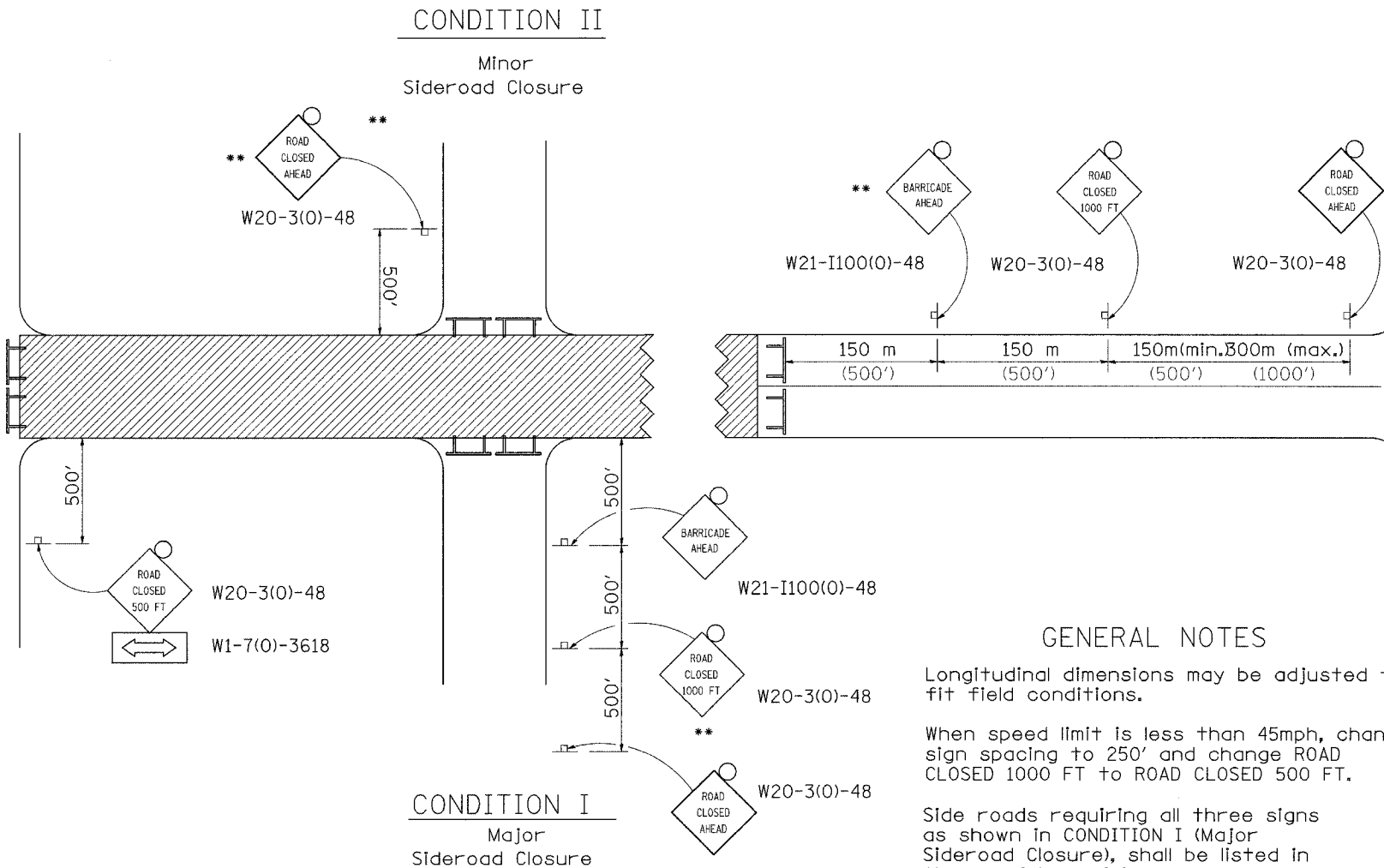
TRAFFIC CONTROL FOR ROAD CLOSURE



ROAD CLOSED TO THRU TRAFFIC
BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 701901. 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.



CONDITION I
Major
Sideroad Closure

SYMBOLS

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

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown 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 701901.

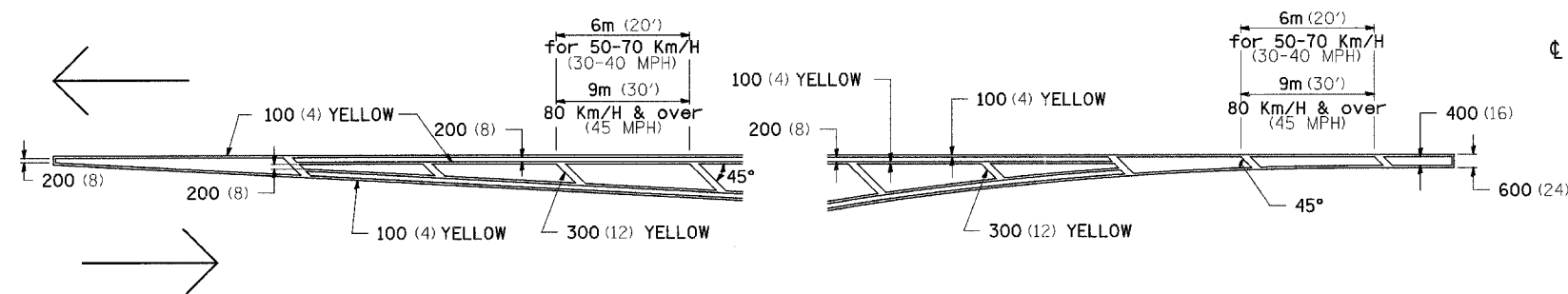
All dimensions are in millimeters (inches) unless otherwise shown.

TYPICAL APPLICATION
FOR ROAD CLOSURE

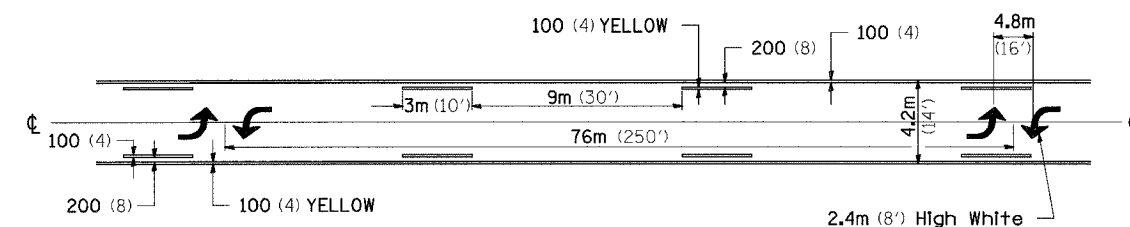
CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

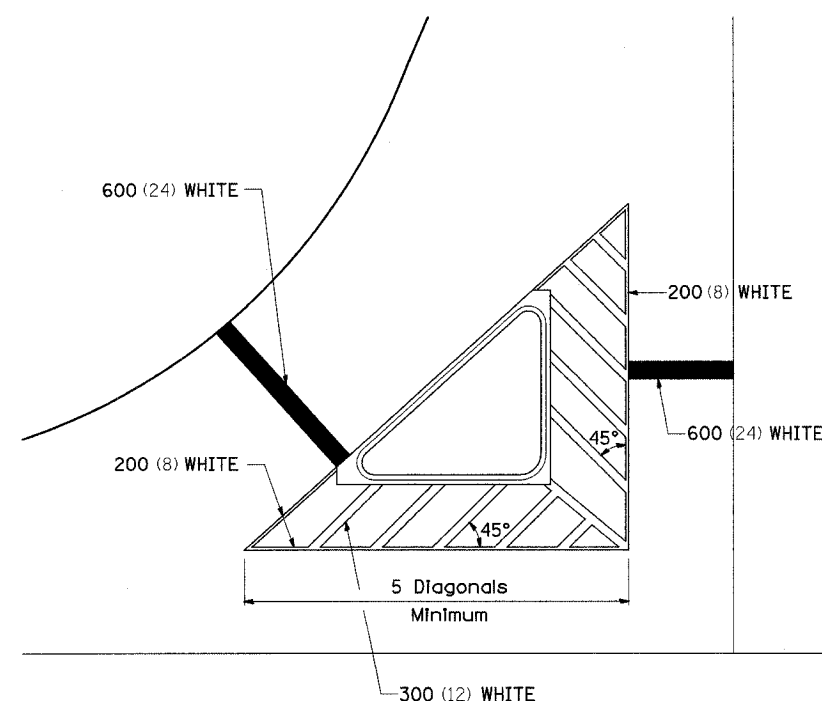
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



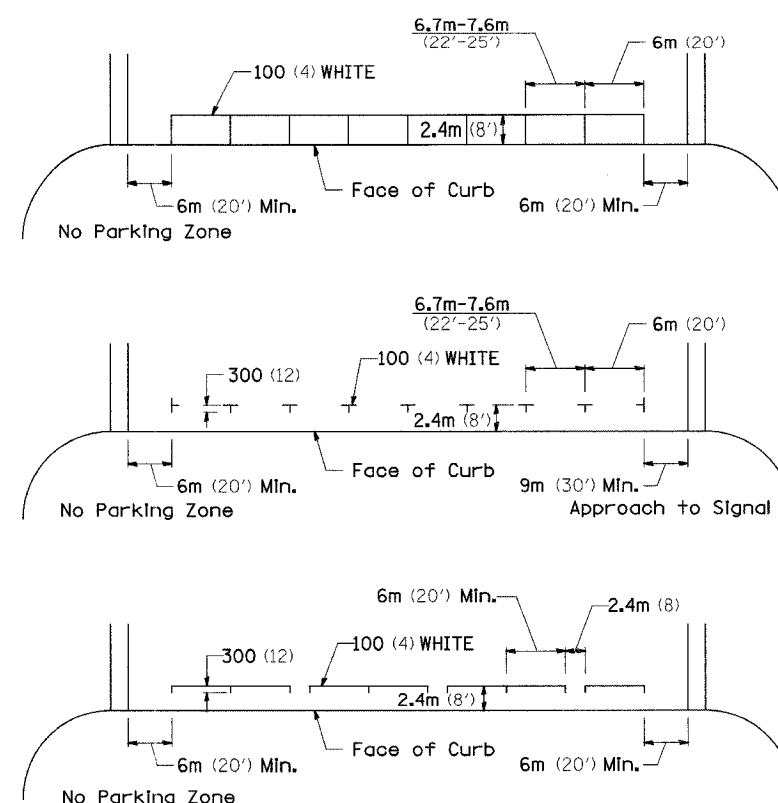
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH

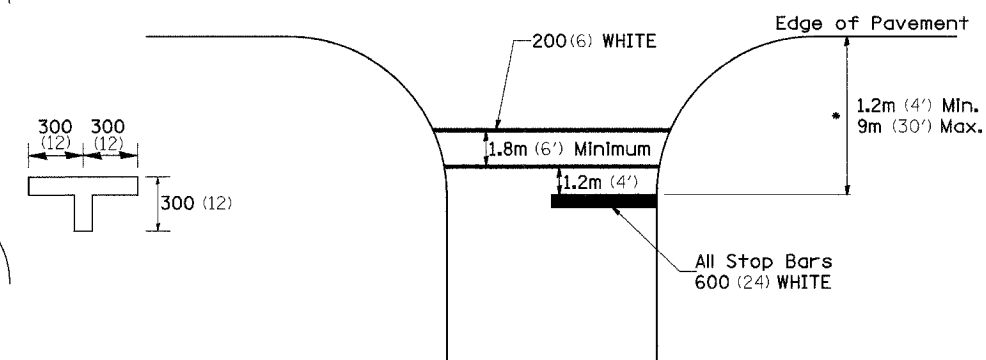


TYPICAL PARKING SPACING



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

STANDARD CROSSWALK MARKING See Schedules for Locations



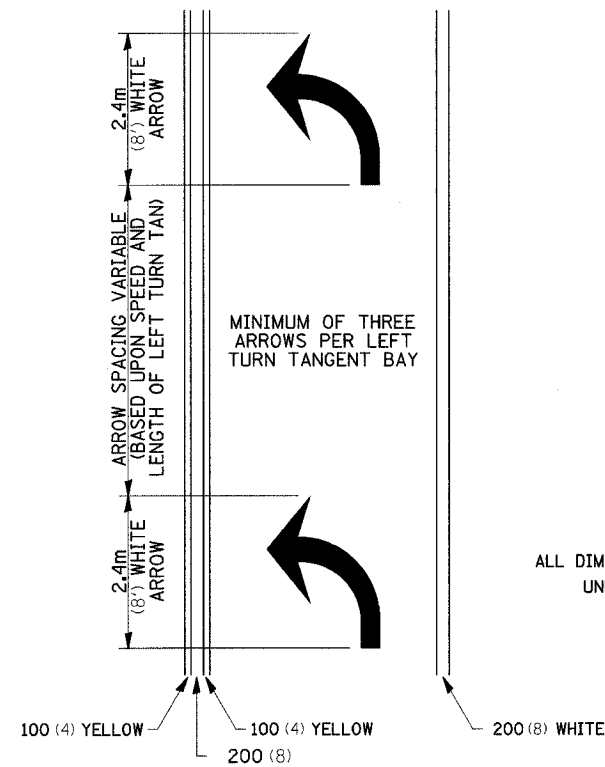
* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

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

TYPICAL PAVEMENT MARKINGS

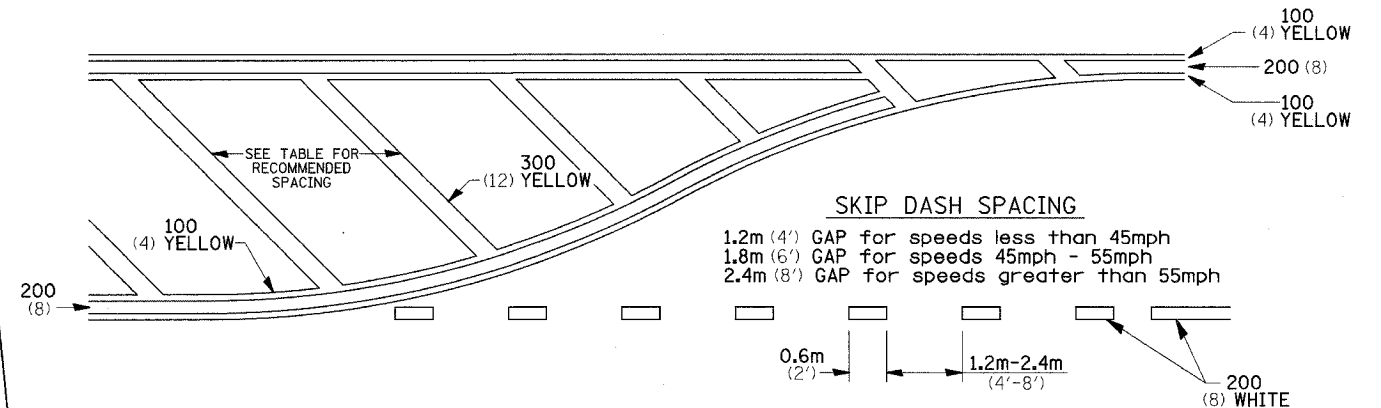
ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

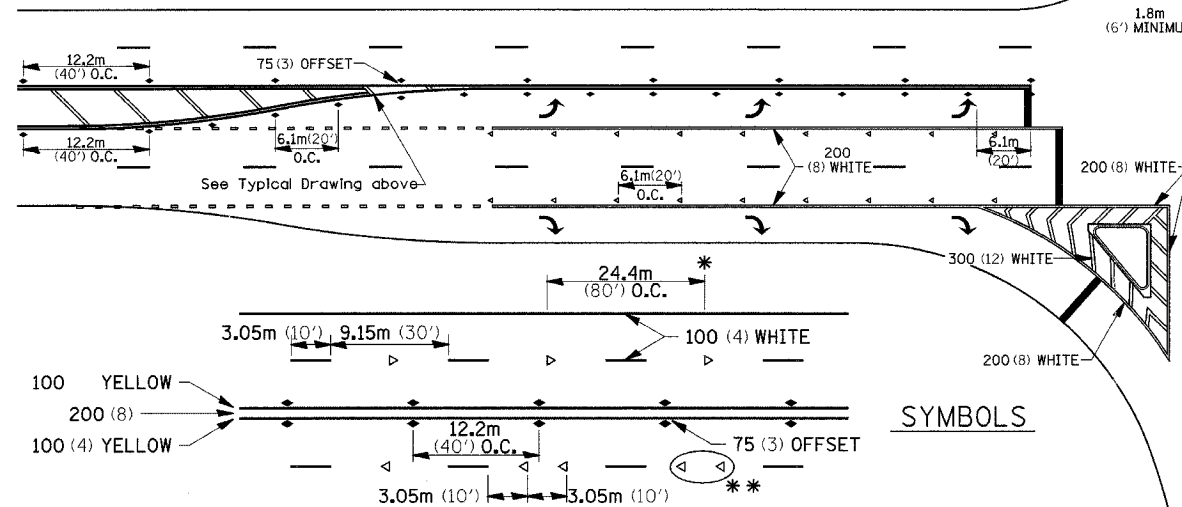
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



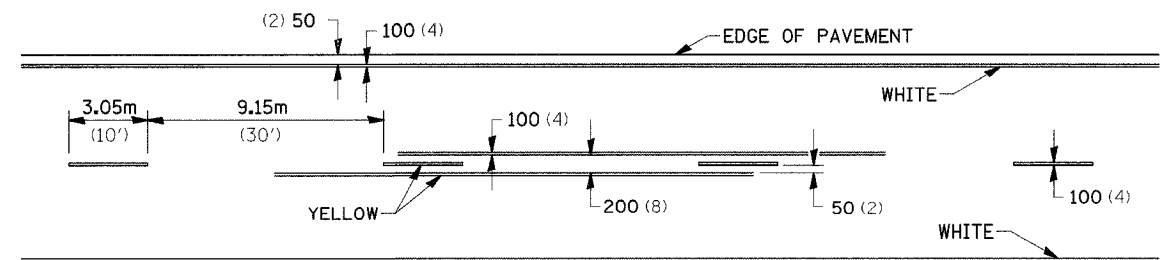
- REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

SYMBOLS

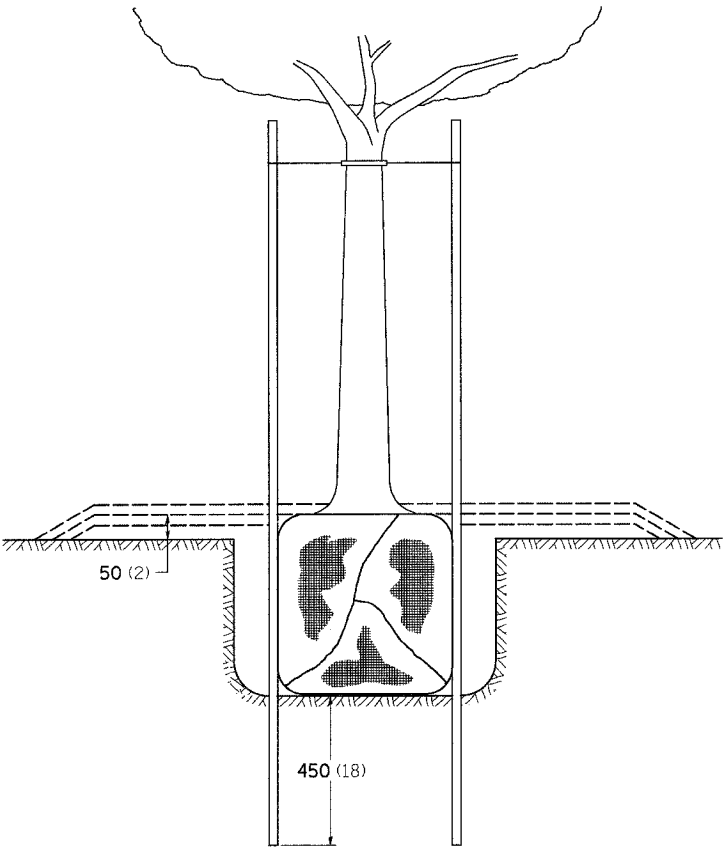
See Typical Drawing above

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES

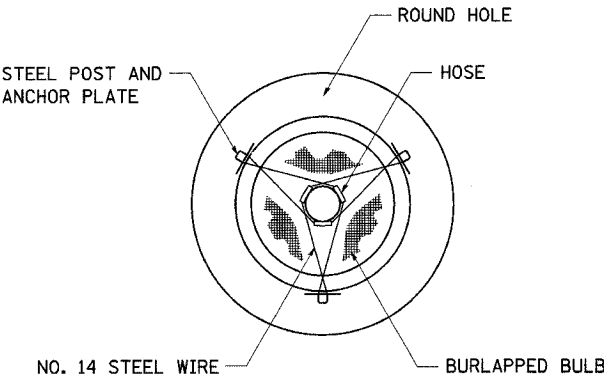


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	48
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES

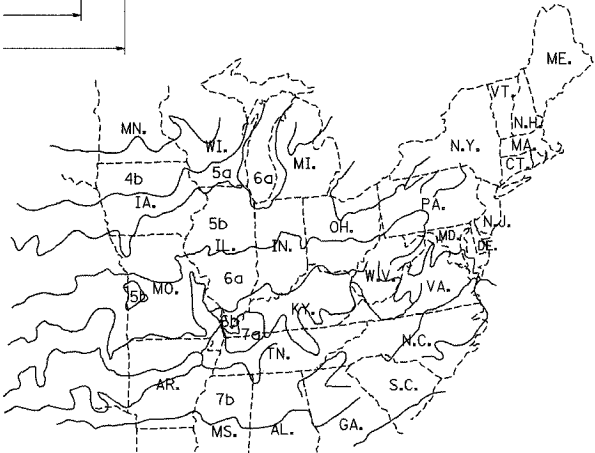
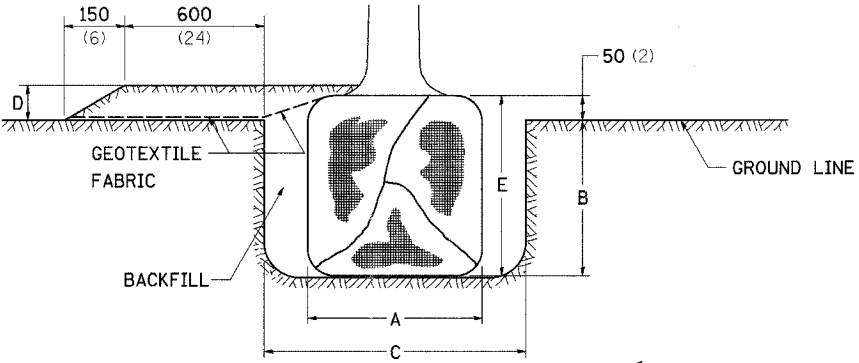


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

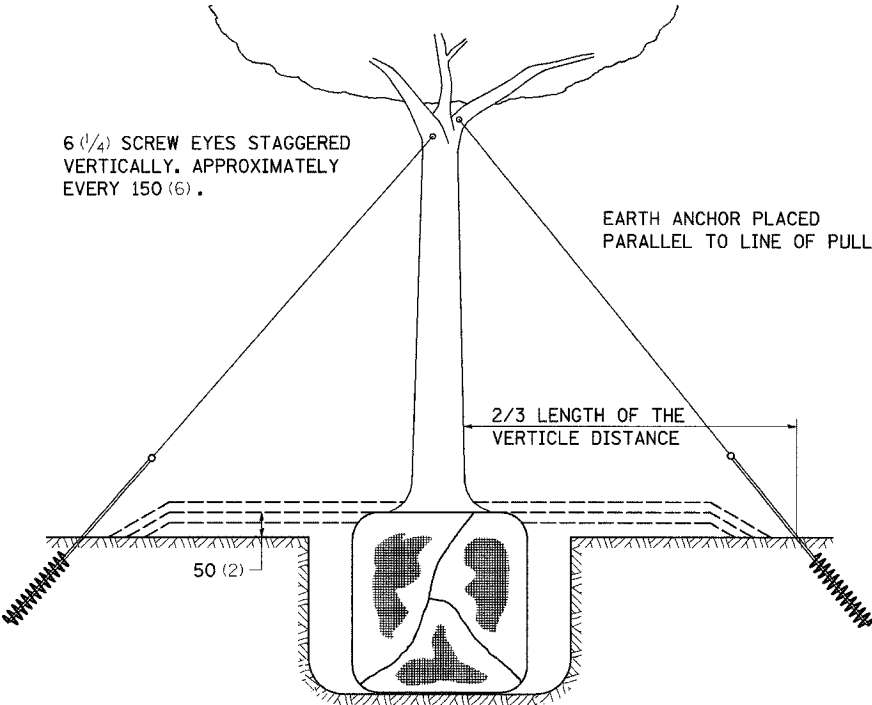


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7')	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8')	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10')	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12')	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

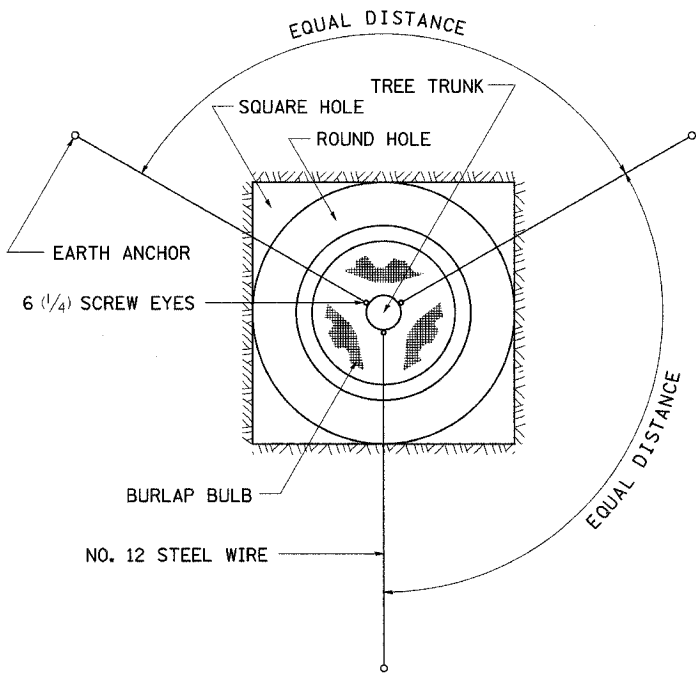
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m³ (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2 1/2-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3 1/2) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3 1/2-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4 1/2) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4 1/2-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5 1/2) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)



PLANT HARDINESS ZONE MAP
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 115 (4 1/2) IN DIAMETER



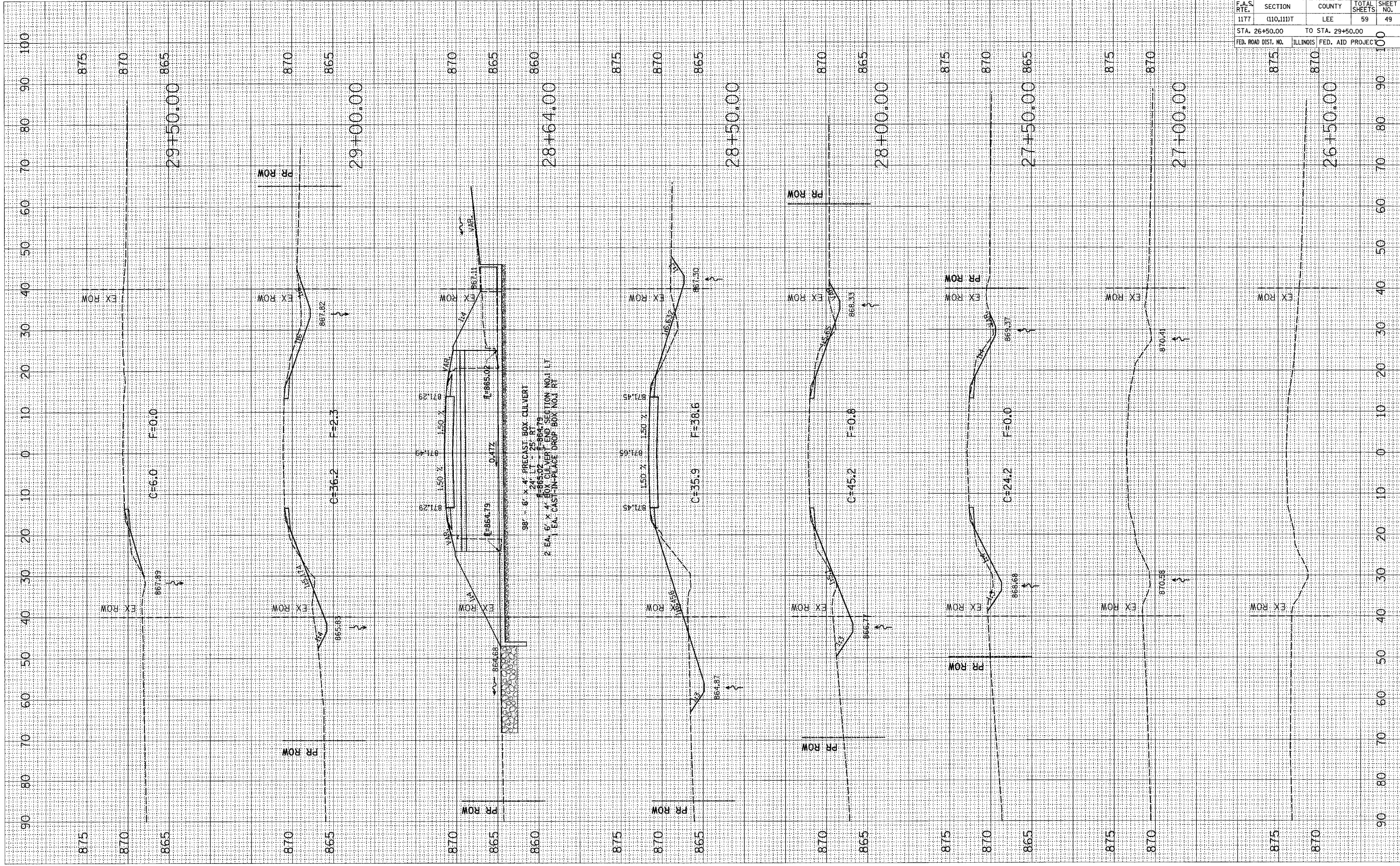
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UNLESS OTHERWISE NOTED.

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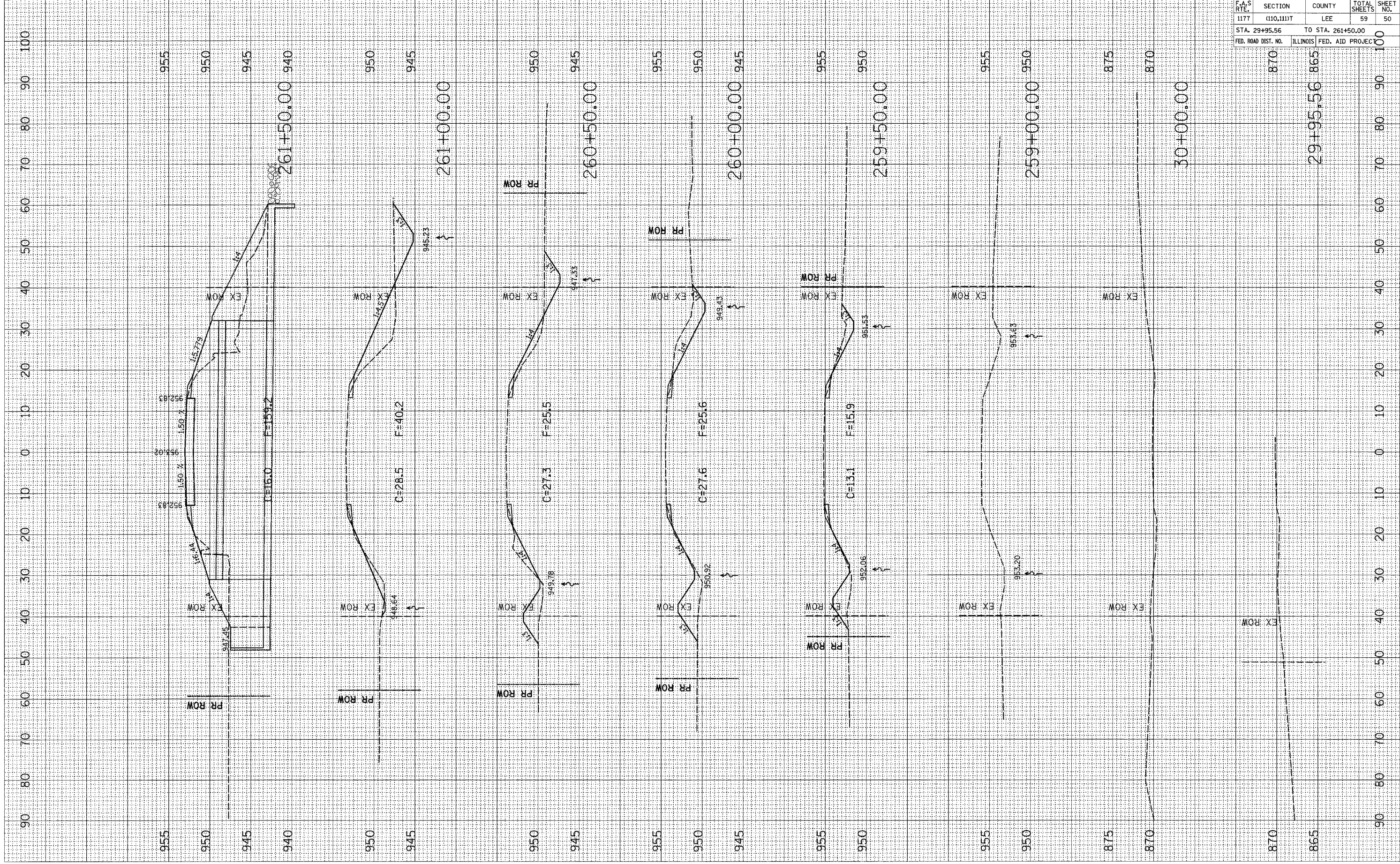


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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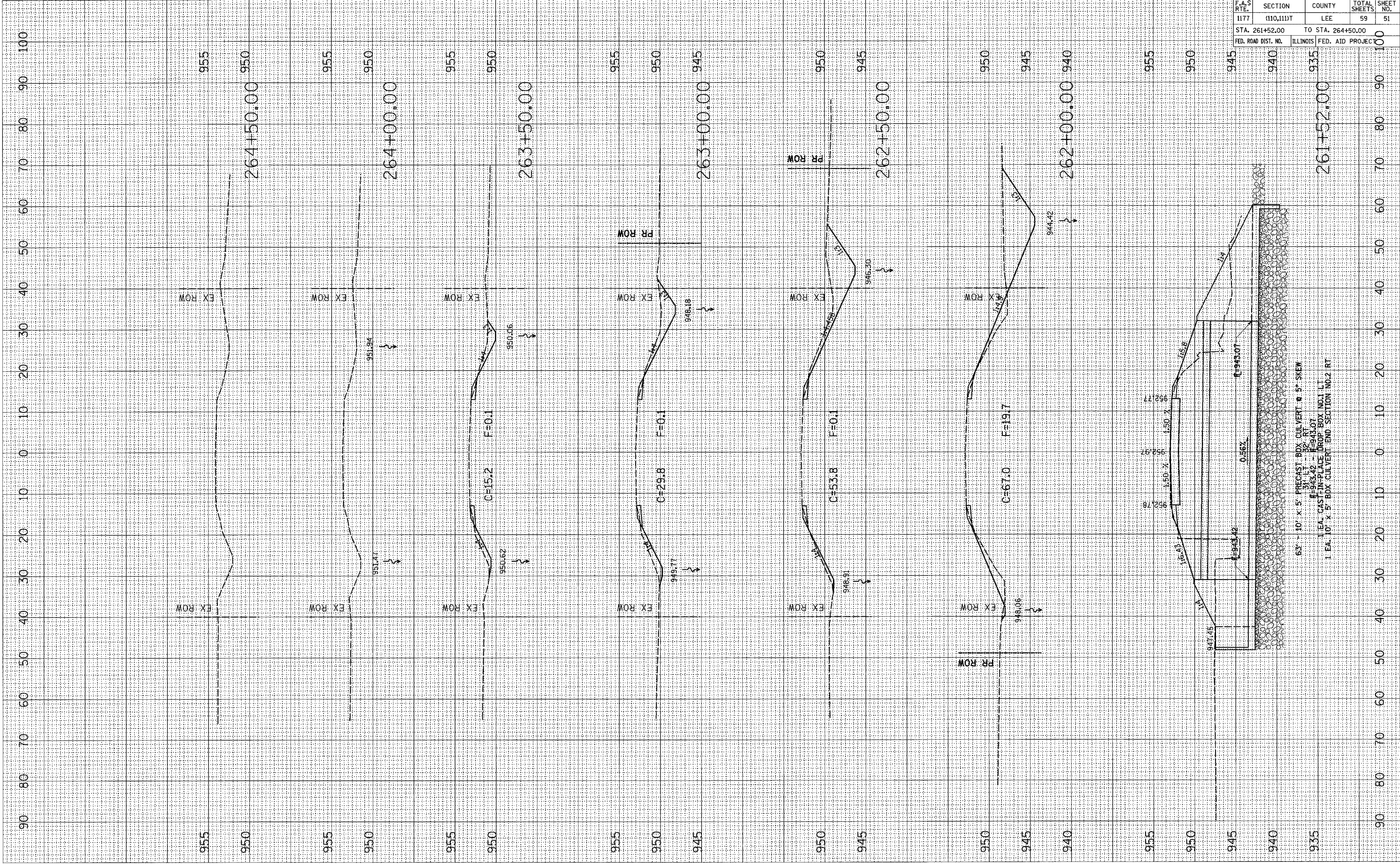


CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	50
STA. 29+95.56		TO STA. 261+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	100	

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	51
STA. 261+52.00		TO STA. 264+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

261+52.00

262+50.00

263+50.00

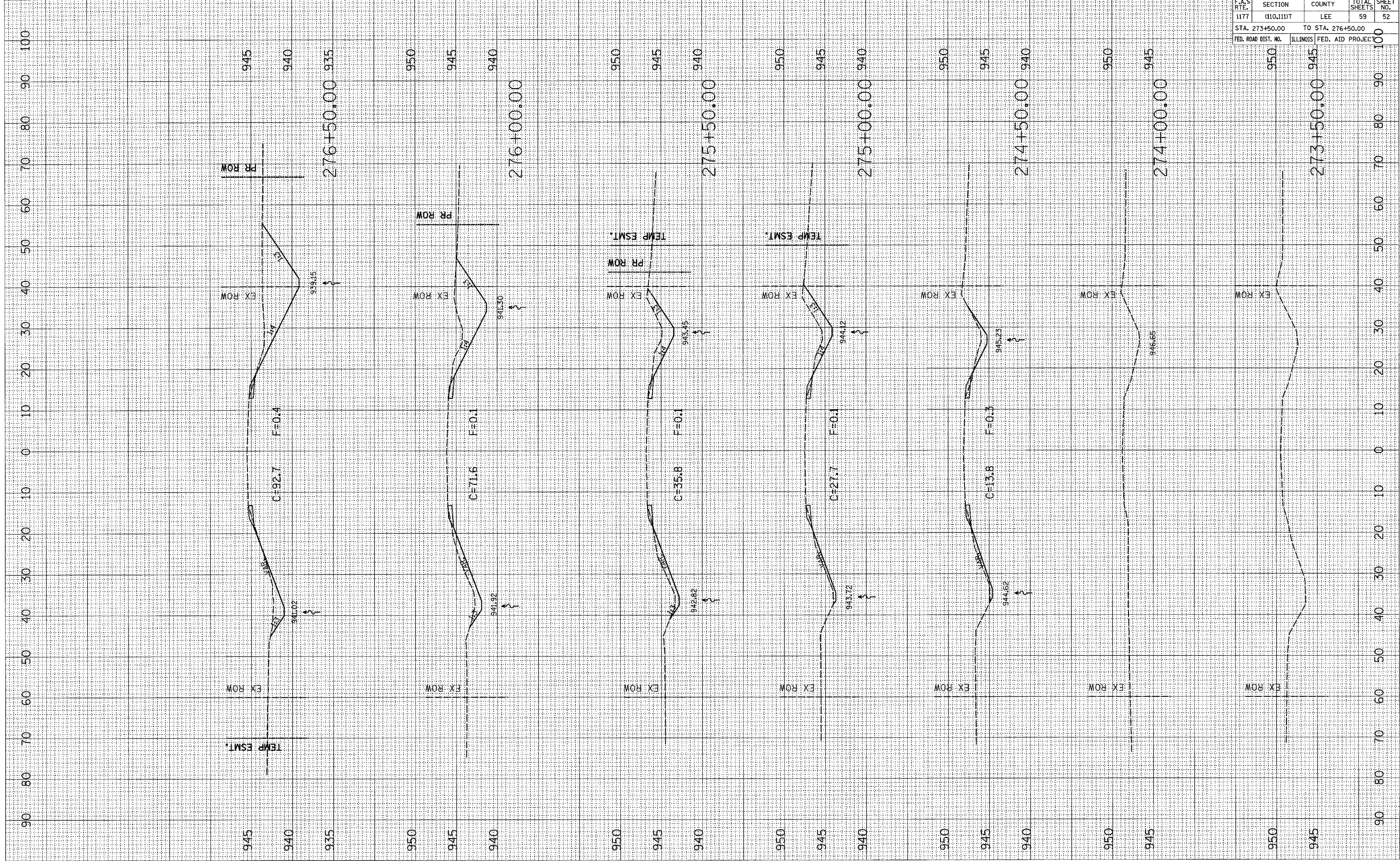
264+00.00

264+50.00

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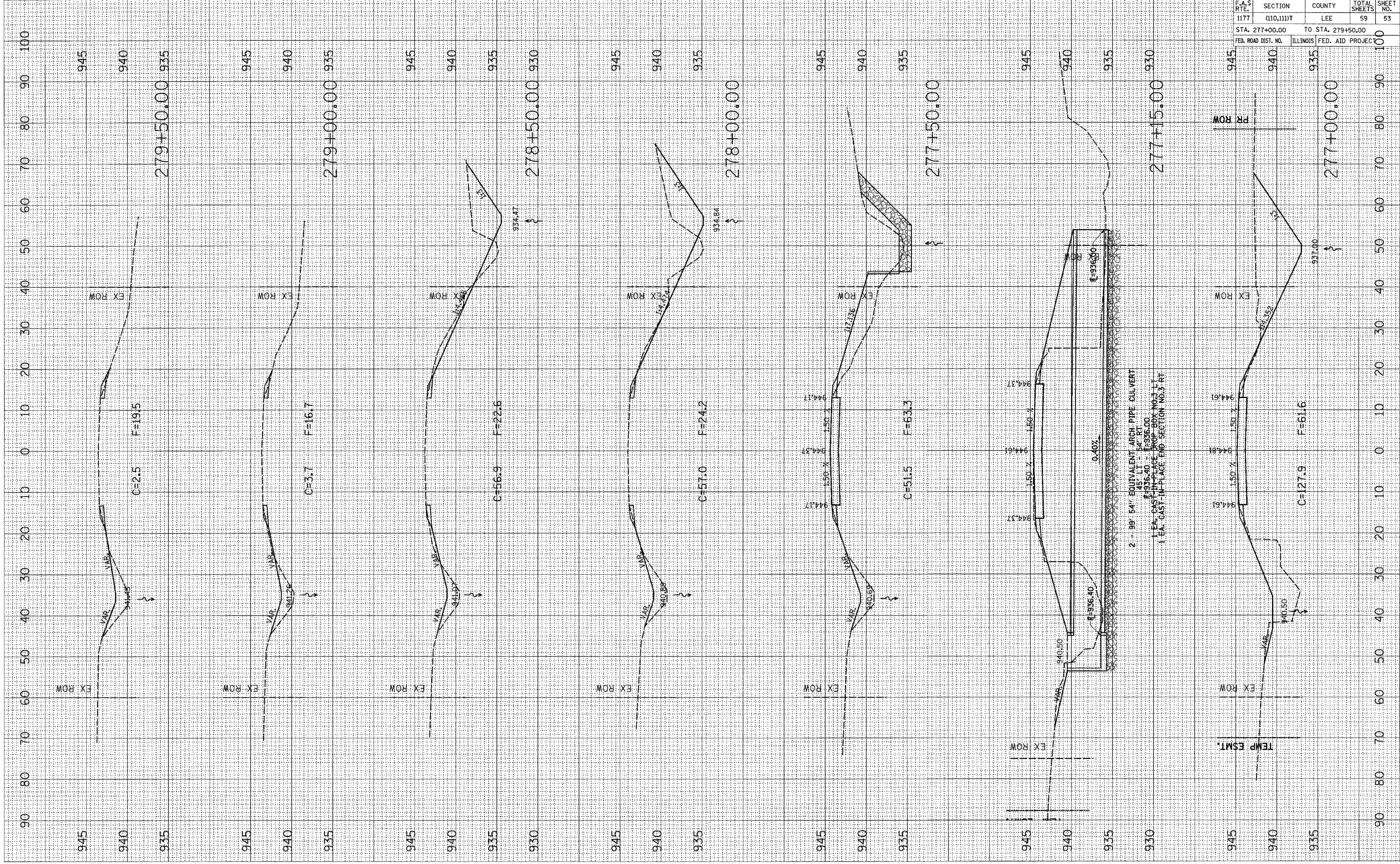


CONTRACT NO. 64C72				
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1177	(110,111)T	LEE	59	52
STA. 273+50.00		TO STA. 276+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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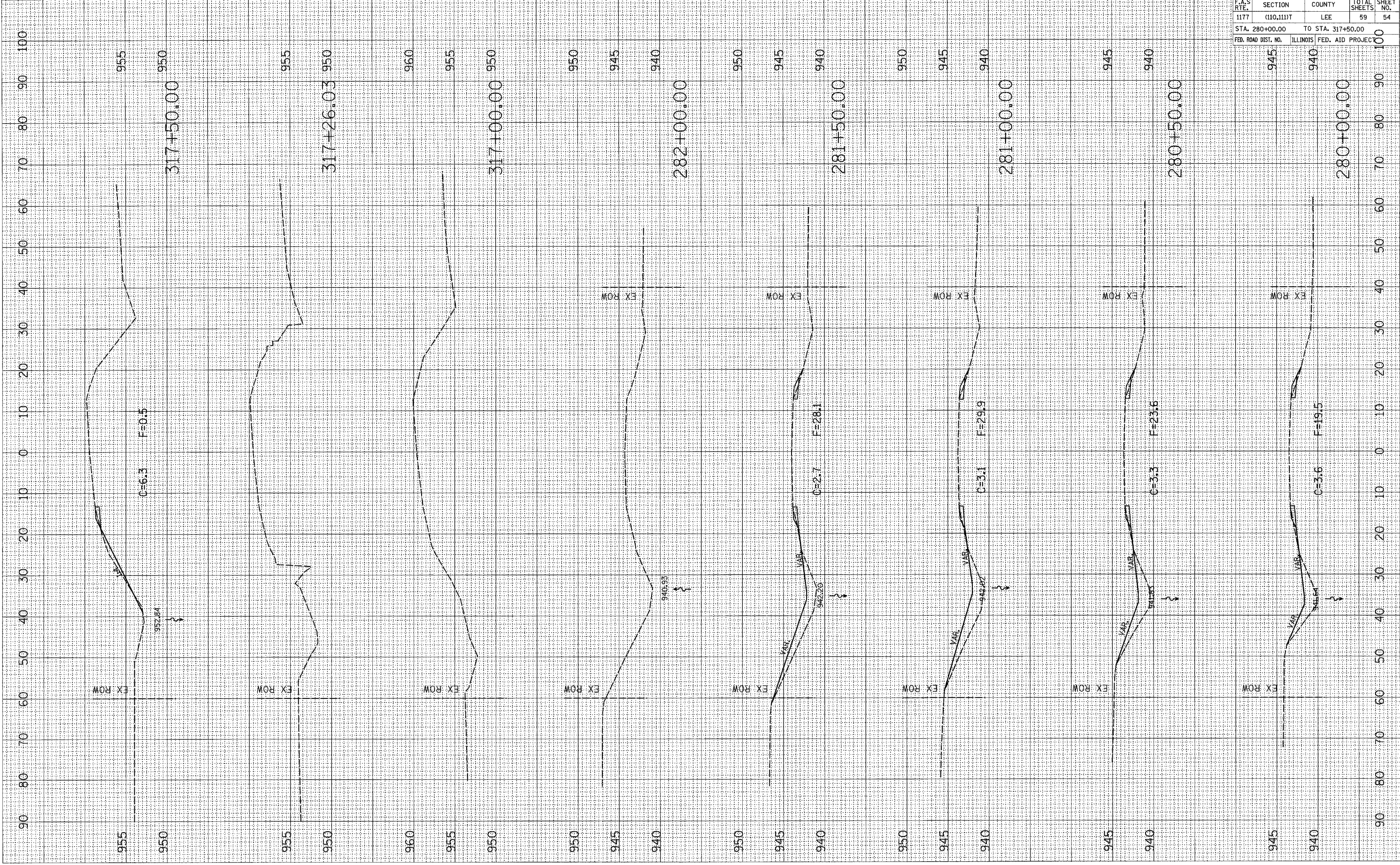
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STA. 277+00.00		TO STA. 279+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 64C72

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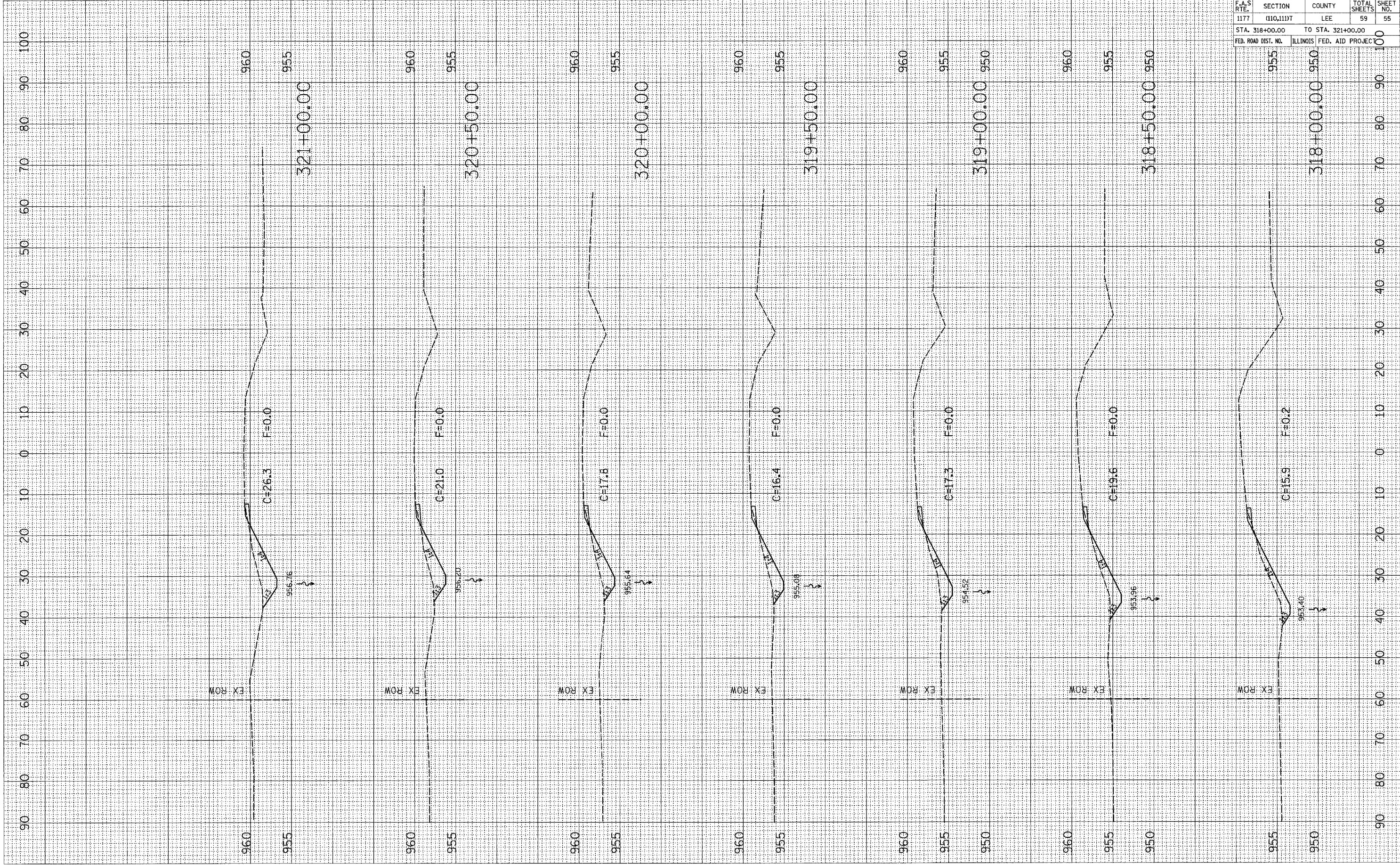


CONTRACT NO. 64C72			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
1177	(110,111)T	LEE	59
STA. 280+00.00 TO STA. 317+50.00		FED. AID PROJECT	100
FED. ROAD DIST. NO.		ILLINOIS	

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NOTE BOOK	TEMPLATE				
NO.	AREAS CHECKED				

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

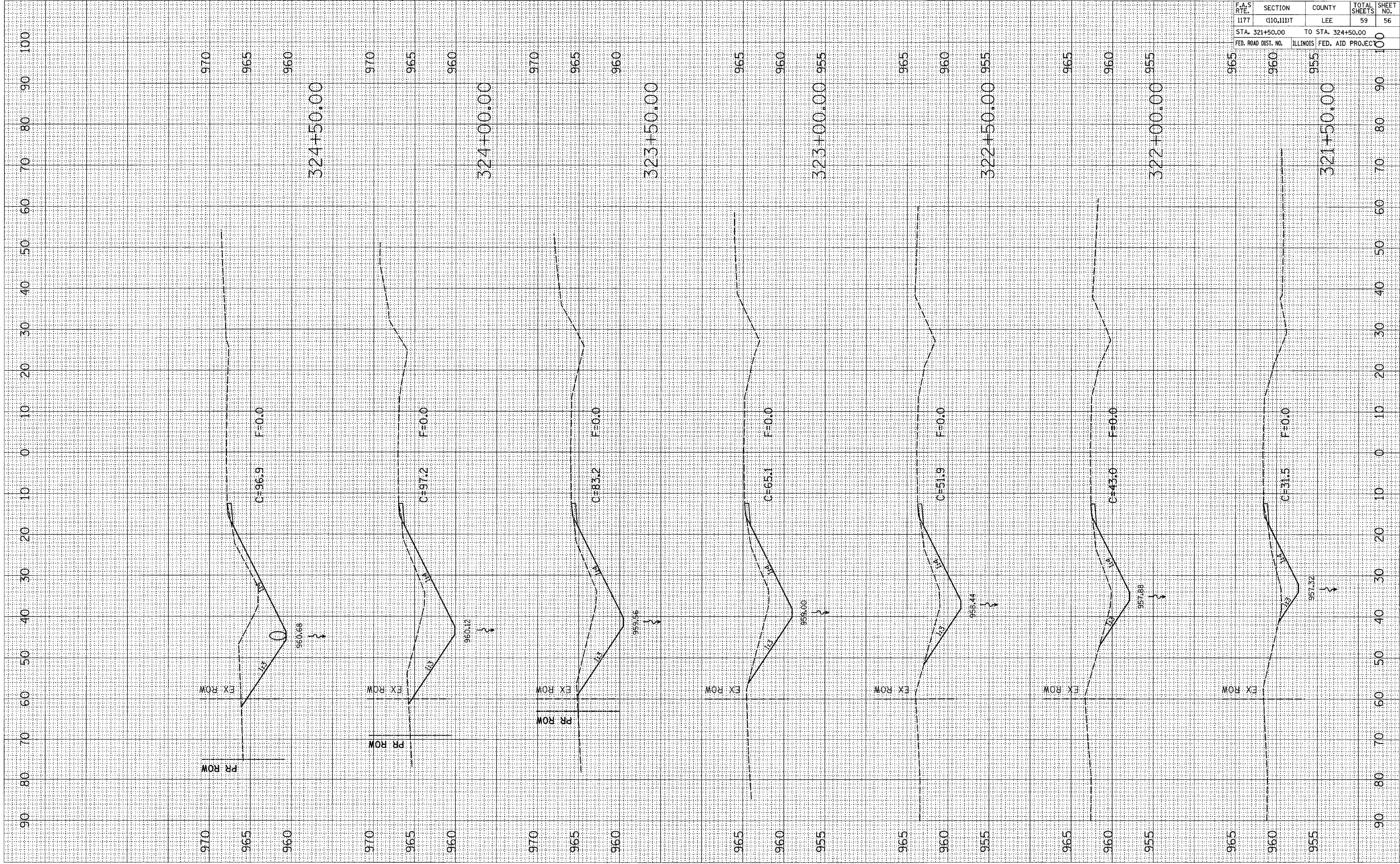


CONTRACT NO. 64C72					
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
1177	(110,111)T	LEE	59	55	
STA. 318+00.00			TO STA. 321+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

PLOT DATE = Tue Feb 26 06:51:12 2008
PLOT SCALE = 1/8"=1'-0"
USER NAME = cushmanby

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

FINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	MEAS CHECKED		

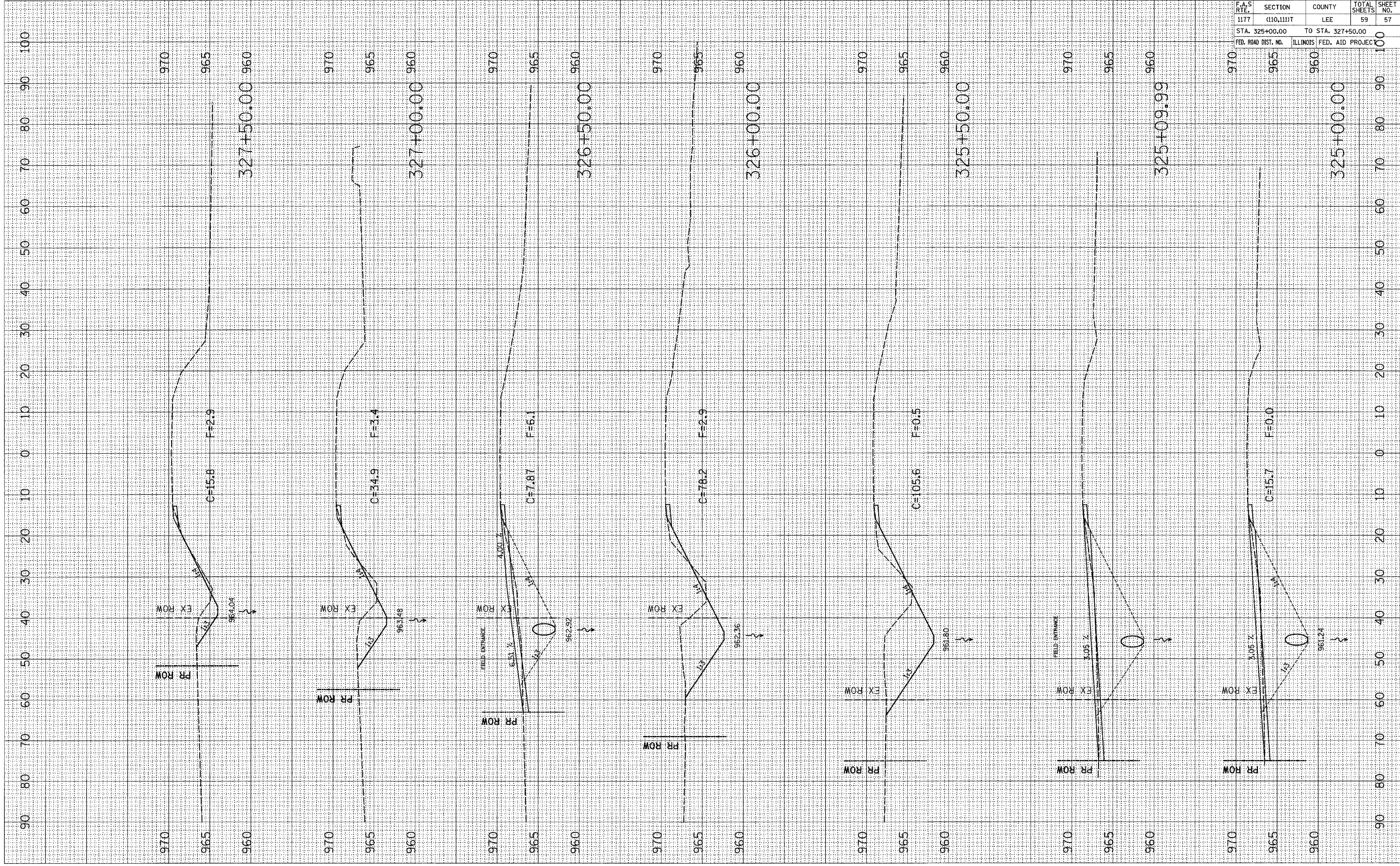


CONTRACT NO. 64C72				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	56
STA. 321+50.00		TO STA. 324+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLOT DATE = Tue Feb 26 18:37:12 2008
PLOT SCALE = 1/8"=1'-0"
USER NAME = cshamshaw

ORIGINAL SURVEY	SURVEYED PLOTTER TEMPLATE	BY	DATE
NO.	NO.		

FINAL SURVEY	SURVEYED PLOTTER TEMPLATE	BY	DATE
NO.	NO.		

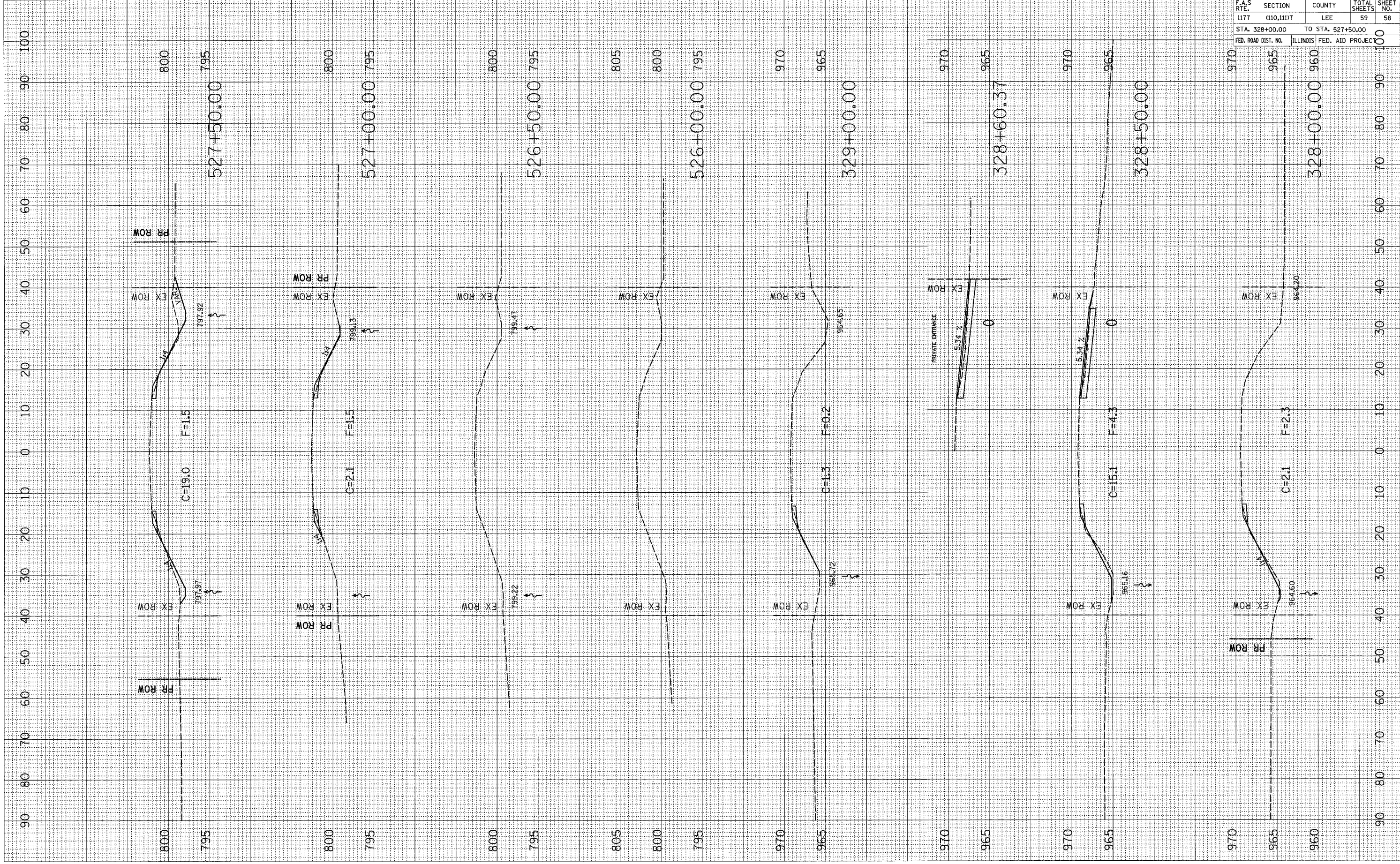


F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1177	(110,111)T	LEE	59	57
STA. 325+00.00 TO STA. 327+50.00		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.				

PLOT DATE = Tue Feb 26 18:37:12 2008
PLOT FILE = C:\Users\james\Documents\183712\183712.plt
PLOT SCALE = 1"=500.00'
USER NAME = james

ORIGINAL SURVEY	SURVEYED PLOTTED TEMPLATE	BY	DATE
NO.	NO.		

FINAL SURVEY	SURVEYED PLOTTED TEMPLATE	BY	DATE
NO.	NO.		



CONTRACT NO. 64C72			
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEET NO.
1177	(110,111)T	LEE	59
STA. 328+00.00 TO STA. 527+50.00			58
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED BY	DATE
Logite Book		
PLOTTED _____ (Drawing made by hand or computer)		
TEMPLATE _____ (Printed on standard size paper)		
AREAS _____ (Printed on standard size paper)		
AREAS CHECKED _____		
NO. _____		

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

