

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	2T	OGLE	48	1

A 48+1=49

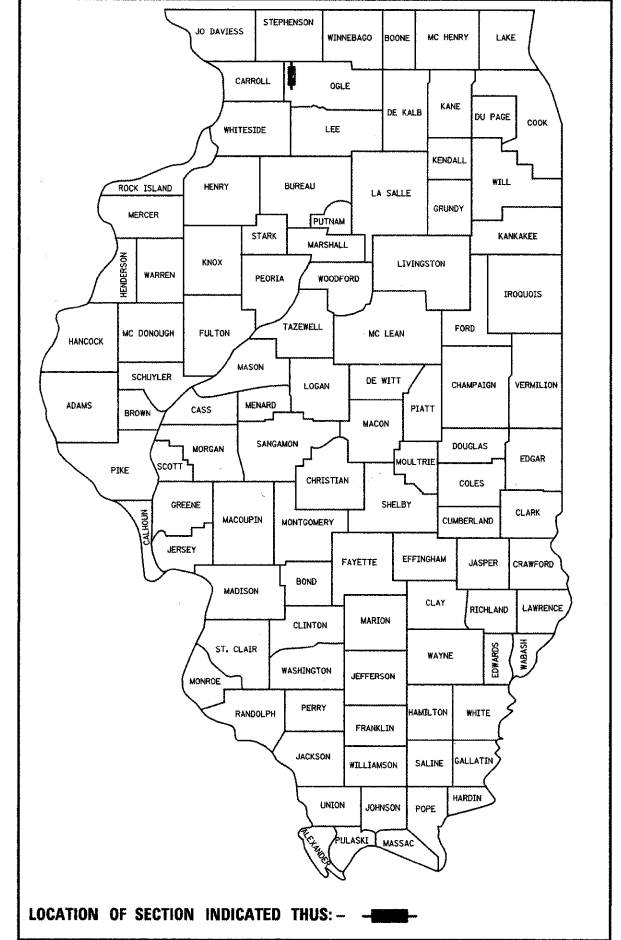
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP 316 (IL 26)  
SECTION 2T  
PROJECT NHF-0316(036)  
OGLE COUNTY



D-92-003-03



LOCATION OF SECTION INDICATED THUS: -

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- 542401 - 01 Metal End Sections for Pipe Culverts
- 666001 - 01 Right-Of-Way Markers
- 667101 - 01 Permanent Survey Markers
- 701006 - 03 Off-Road Operations, 2L, 2W, 4.5m(15') to 600 mm(24") From Pavement Edge
- 701201 - 03 Typical Application of Traffic Control Standard
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- 728001 - 01 Telescoping Steel Sign Support
- 729001 - 01 Application Types A and B Metal Posts (for signs and markers)
- 780001 - 02 Typical Pavement Markings

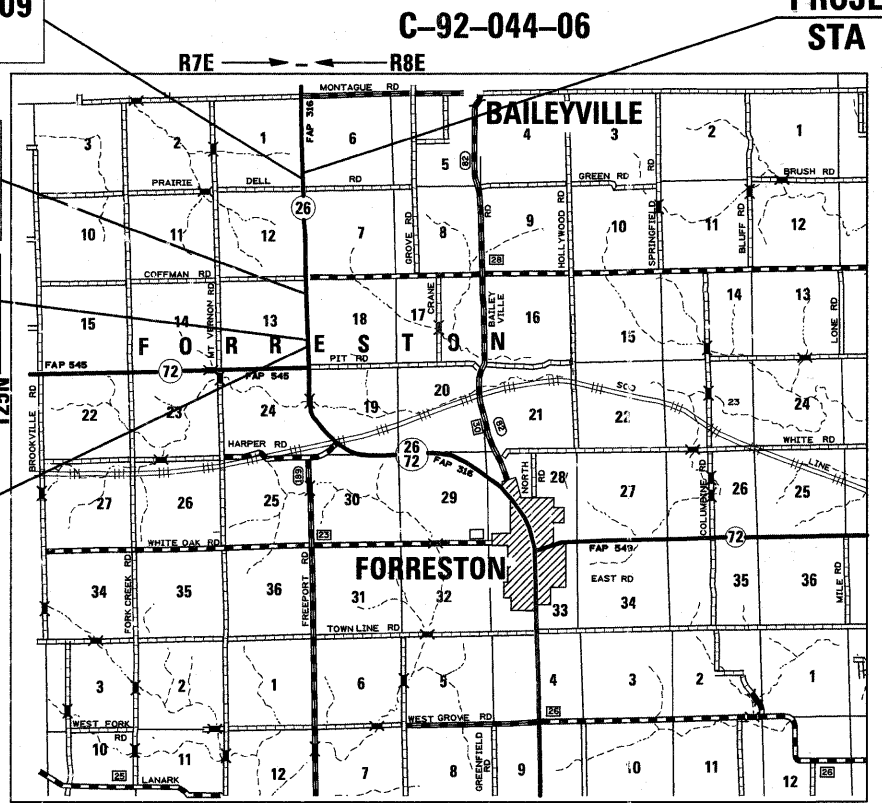
**CULVERT # 3**  
STA 1283 + 39.09  
S.N. 071-1225

**CULVERT # 2**  
STA 1201 + 61.08  
S.N. 071-1224

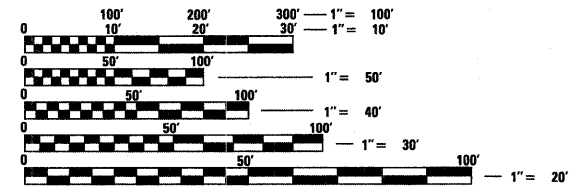
**CULVERT # 1**  
STA 1173 + 89.80  
S.N. 071-1223

**PROJECT ENDS**  
STA 1285 + 50

**PROJECT BEGINS**  
STA 1171 + 50



**IMPROVEMENT & SECTION BEGINS STA 1171 + 50**  
**IMPROVEMENT & SECTION ENDS STA 1285 + 50**



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

FORRESTON TOWNSHIP 1,6,7,12,13,18

CONTRACT NO. 64851

GROSS LENGTH OF PROJECT = 11400 LIN. FT = 2.159 MI.  
NET LENGTH OF PROJECT = 151 LIN. FT = 0.029 MI.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED MARCH 11 20 09

George F. Ryan  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8 20 09  
Charles J. Ingersoll  
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 20 09  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

**DISTRICT 2  
DIXON**

PROJECT ENGINEER: MASOOD AHMAD

SQUAD LEADER: AHMAD EL-AHMAD (815) 284-5944

# SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNITS	TOTAL QUANTITY	Y007 80% Federal 20% State
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	100	100
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	100	100
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	100	100
20200100	EARTH EXCAVATION	CU YD	920	920
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4404	4404
25000210	SEEDING, CLASS 2A	ACRE	0.6	0.6
25000310	SEEDING, CLASS 4	ACRE	0.4	0.4
25100115	MULCH, METHOD 2	ACRE	1.0	1.0
25100630	EROSION CONTROL BLANKET	SQ YD	1326	1326
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	921	921
28000300	TEMPORARY DITCH CHECKS	EACH	43	43
28000400	PERIMETER EROSION BARRIER	FOOT	510	510
28000500	INLET AND PIPE PROTECTION	EACH	4	4
28100107	STONE RIPRAP, CLASS A4	SQ YD	106	106
28200200	FILTER FABRIC	SQ YD	106	106
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	436	436
35101400	AGGREGATE BASE COURSE, TYPE B	TON	425	425
42001200	PAVEMENT FABRIC	SQ YD	436	436
44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	436	436
48101200	AGGREGATE SHOULDERS, TYPE B	TON	558	558
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1	1
50102600	CONCRETE REMOVAL	EACH	2	2
51500100	NAME PLATES	EACH	3	3
54010503	PRECAST CONCRETE BOX CULVERT 5' X 3'	FOOT	61.5	61.5
54010603	PRECAST CONCRETE BOX CULVERT 6' X 3'	FOOT	192	192
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	47	47
5421D024	PIPE CULVERTS, CLASS D, TYPE 1 24" (TEMPORARY)	FOOT	55	55

# SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNITS	TOTAL QUANTITY	Y007 80% Federal 20% State
54213453	END SECTIONS 18"	EACH	2	2
<del>5420480</del>	<del>PIPE CULVERTS, TYPE 2, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 15"</del>	FOOT	<del>50</del>	<del>50</del>
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	81	81
<del>60104800</del>	<del>PIPE DRAINS, CORRUGATED STEEL OR ALUMINUM ALLOY 8"</del>	<del>FOOT</del>	<del>15</del>	<del>15</del>
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	2	2
63200310	GUARDRAIL REMOVAL	FOOT	1274	1274
63500105	DELINEATORS	EACH	6	6
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	27	27
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	3	3
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	3	3
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1208	1208
X0301794	INLET, STAND PIPE	EACH	2	2
X0322278	RODENT SHIELDS	EACH	2	2
X0323660	DROP BOX NO.1	EACH	1	1
X0323661	DROP BOX NO.2	EACH	1	1
X4420500	TEMPORARY PAVEMENT PATCH	SQ YD	436	436
Z0005400	BREAKER-RUN CRUSHED STONE	TON	195	195
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0029001	GRATED CULVERT EXTENSION, NO. 1	EACH	2	2
Z0029002	GRATED CULVERT EXTENSION, NO. 2	EACH	1	1
Z0029003	GRATED CULVERT EXTENSION, NO. 3	EACH	2	2

\* SPECIALTY ITEM  
 \*\* FOR THE TEMPORARY PATCH AT BOX CULVERT LOCATIONS.

# GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 316 (IL 26)	2T	Ogle	48	4
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64851				

See cross sections for special ditches and backslopes.

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

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

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 on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

Mulch on temporary seeding shall be MULCH METHOD 2.

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

Placement and compaction of 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.

The 18" CMP DRAIN TILE located at Rt. Sta. 1174+10 shall be removed from state ROW. The contractor shall contact the property owner prior to the disposal of the CMP pipe. This work shall be included in the cost of EARTH EXCAVATION.

A quantity of PIPE CULVERTS, CLASS D, TYPE 1 24" (TEMPORARY) has been included in the contract plans to maintain flow during stage construction.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Temporary Pavement Patch
PG:	PG 64-22
Design Air Voids	4.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5
Friction Aggregate	D
20 Year ESAL	1.4

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per Ton for TEMPORARY PAVEMENT PATCH.

The new numbers for these structures will be 071-1223 Sta. 1173+89.8  
071-1224 Sta. 1201+61.08  
071-1225 Sta. 1283+39

The contractor shall submit four copies of the required shop drawings for review and approval to the Bureau of Bridges and Structures, 2300 South Dirksen Parkway, Springfield, IL 62764. After approval of initial submittal, the contractor shall submit one set of shop drawings to Eric Harm, Engineer of Materials, 126 East Ash Street, Springfield, IL 62706, and eight (8) sets of shop drawings to be distributed to:

- District 2 District Engineer (1)
- Fabricator (1)
- Contractor (2)
- Resident Engineer (2)
- District 2 Bureau of Materials (2)

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.

Precast grated inlet specials may be substituted in lieu of cast-in-place units with floors upon receipt of manufacturer's shop drawings which have been approved by the Department. The Contractor shall be responsible for verifying necessary dimensions on the existing drainage structure required for the attachment. No additional cost for this substitution shall be allowed.

Culvert flows must be maintained. Normal flow shall be allowed to pass at the rate it enters the job site. 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.

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.

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.

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: 3 Each.

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

The Contractor shall place a PERMANENT SURVEY MARKER, Type II, using the USGS table provided at the location directed by the Engineer.

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.

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.

Culverts at Station 1173+89 and Station 1283+39 - Install using flaggers half time. Install east side first to maintain flow.

Grade and shape ditch Rt. Sta. 1171+50 to 1173+00 flow better flow. This work shall be included in the cost of EARTH EXCAVATION.

# GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 316 (IL 26)	2T	Ogle	48	5
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64851				

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:

BP Pipelines North America, Inc.	Commonwealth Edison
Verizon	Citizens

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

Mr. Kyle Lorenz  
 IDOT – District 2  
 819 Depot Avenue  
 Dixon, IL 61021  
 Ph. 815/284-5469

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.

Except for the top 75 mm (3"), all aggregate bases and subbases 300 mm (12") in thickness shall be constructed of aggregate gradation CA-2. If the specified thickness exceeds 300 mm (12"), the bases or subbases shall be constructed of topsize 150 mm (6") breaker-run crushed stone with 70% to 90% by weight, passing the 4" sieve and 15% to 40% by weight, passing the 50 mm (2") size sieve, except for the top 75 mm (3"). The breaker-run crushed stone shall be reasonably uniformly graded from coarse to fine and be taken from a quarry ledge capable of producing Class "D" quality aggregate. The top 75 mm (3") shall be gradation CA-6 or CA-10 regardless of thickness. The water necessary to achieve compaction in all but the top 75 mm (3") layer may be added after the subbase or base course is placed on the grade.

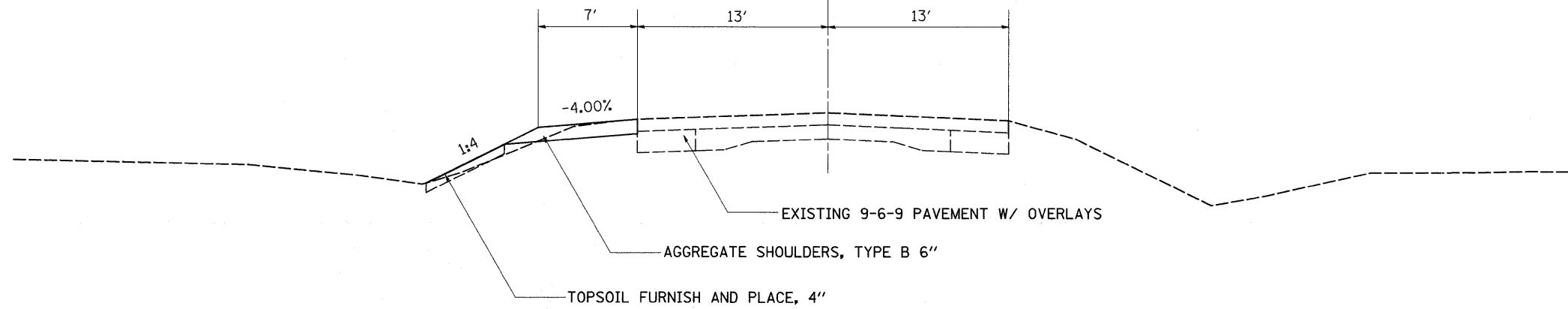
Program #5  
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 200%  
 Enlarge 107%

# TYPICAL SECTIONS

## PROPOSED TYPICAL

STA 1171+50 - STA 1172+50

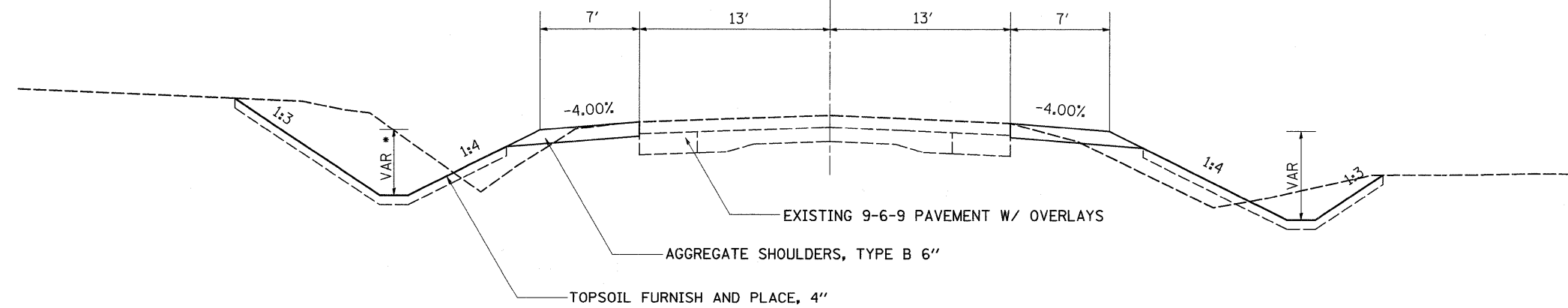
CL IL 26



## PROPOSED TYPICAL

STA 1172+50 - STA 1176+00

CL IL 26



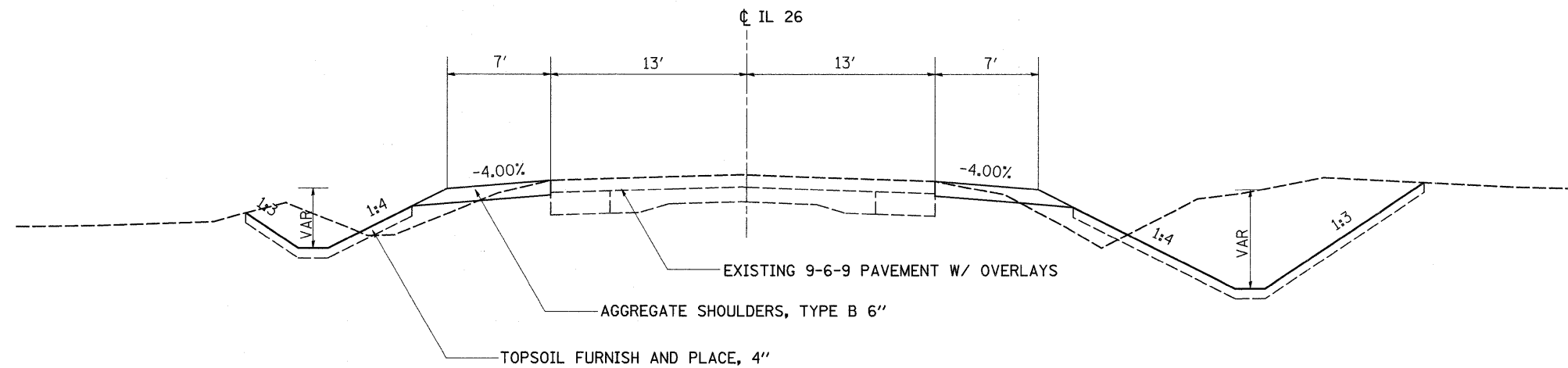
\* NO DITCH FROM LT STA 1172+50 - LT STA 1173+67.67

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PLOT DATE = Wed Mar 11 10:32:14 2009		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT										

# TYPICAL SECTIONS

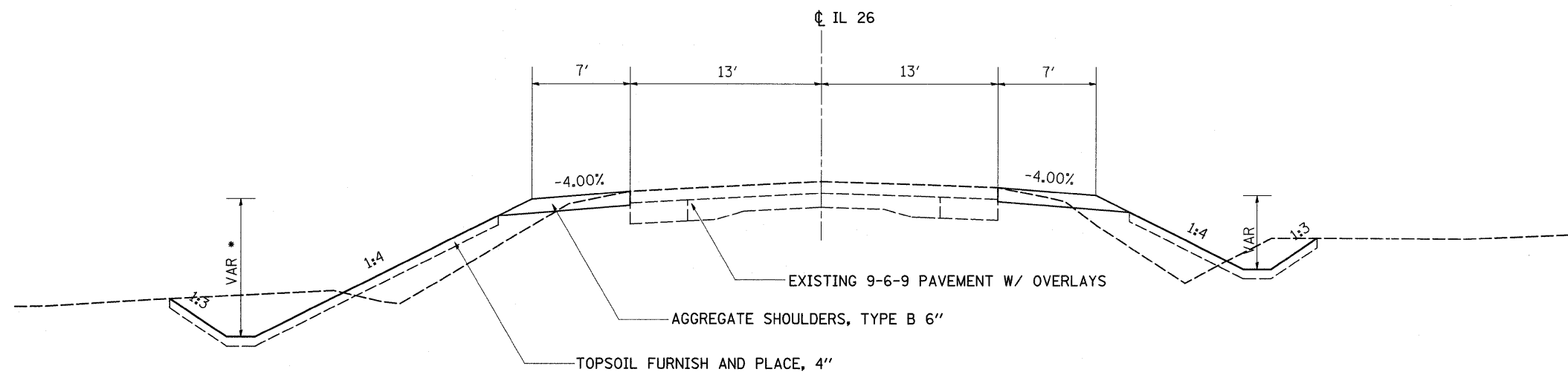
## PROPOSED TYPICAL

STA 1199+50 - STA 1203+50



## PROPOSED TYPICAL

STA 1281+50 - STA 1285+50



\* NO DITCH FROM LT STA 1283+74.63 - LT STA 1285+50

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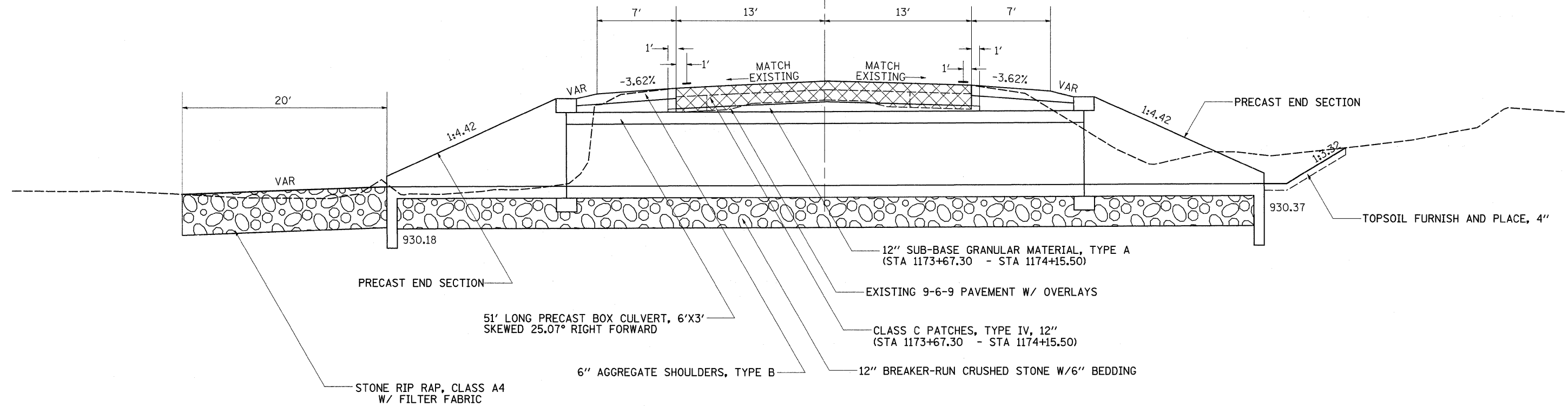
# TYPICAL SECTIONS

## PROPOSED CULVERT TYPICAL

STA 1173+89.80

S.N. 071-1223

Ø IL 26



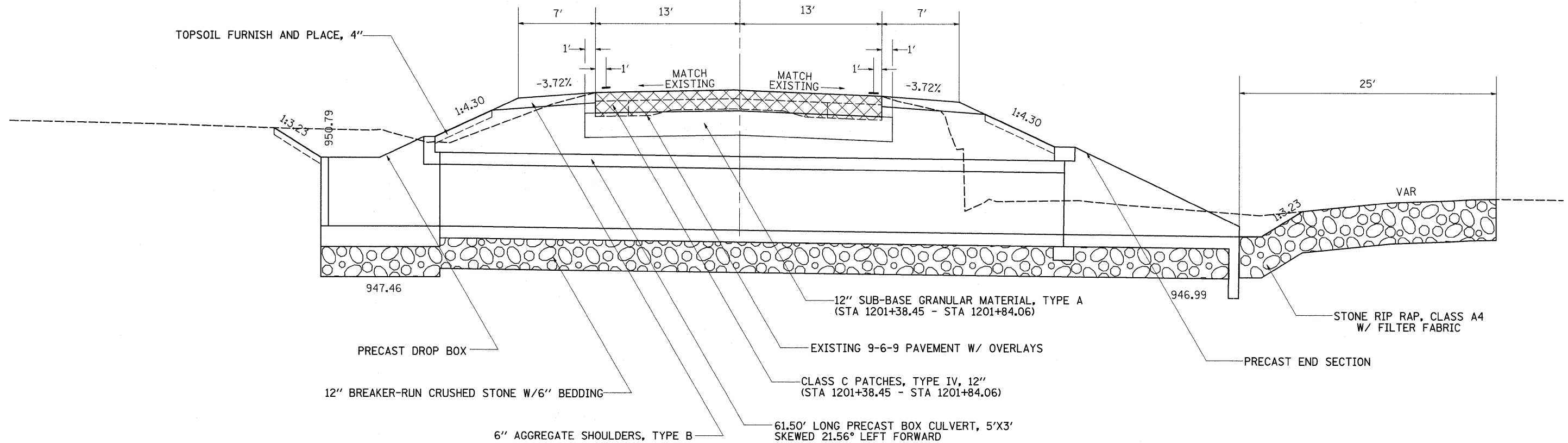
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PLOT DATE = Wed Mar 11 10:32:14 2009														



# TYPICAL SECTIONS

## PROPOSED CULVERT TYPICAL

STA 1201+61.08  
S.N. 071-1224  
Ø IL 26



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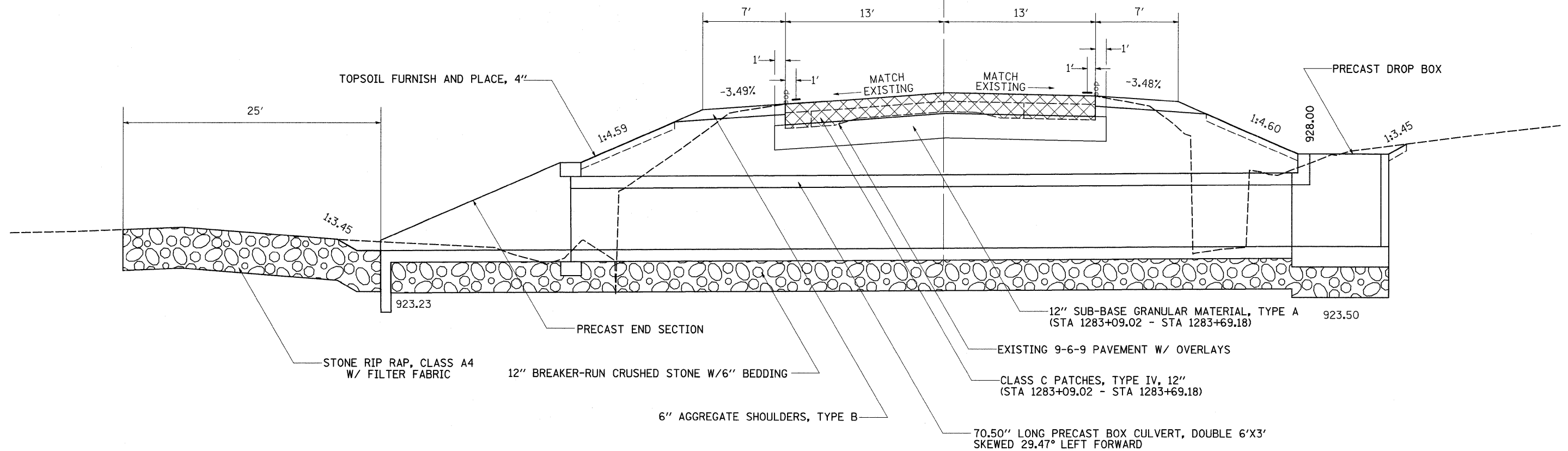
# TYPICAL SECTIONS

## PROPOSED CULVERT TYPICAL

STA 1283+39.10

S.N. 071-1225

CL IL 26



FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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PLOT DATE = Wed Mar 11 10:32:15 2009		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT										

# HORIZONTAL & VERTICAL CONTROL

Chain CENTERLINE contains:  
200 212 213 222 223 230

Beginning chain CENTERLINE description  
Feature: 405

Point 200 N 1,994,654.6830 E 2,442,655.4840 Sta 1105+33.7600

Course from 200 to 212 358° 31' 53.5192" Dist 10,150.5003'

Point 212 N 2,004,801.8497 E 2,442,395.3594 Sta 1206+84.2600

Course from 212 to 213 358° 20' 46.4430" Dist 999.9982'

Point 213 N 2,005,801.4314 E 2,442,366.4998 Sta 1216+84.2583

Course from 213 to 222 358° 09' 39.3717" Dist 8,336.2965'

Point 222 N 2,014,133.4340 E 2,442,098.9697 Sta 1300+20.5548

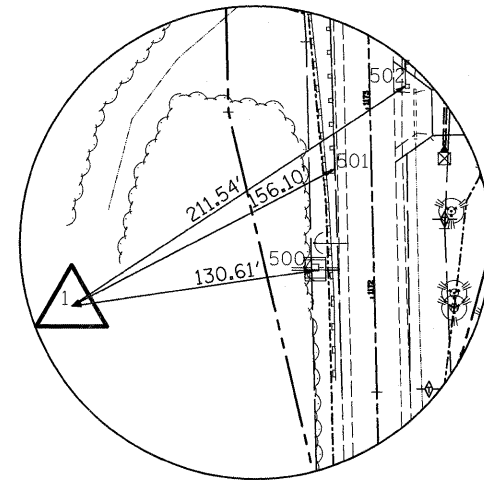
Course from 222 to 223 358° 15' 40.8526" Dist 999.9985'

Point 223 N 2,015,132.9721 E 2,442,068.6292 Sta 1310+20.5533

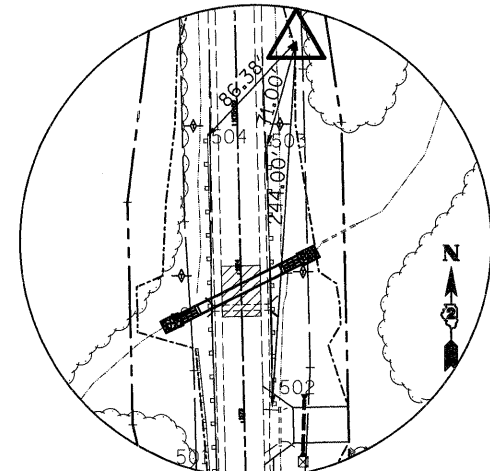
Course from 223 to 230 358° 21' 42.4034" Dist 926.6396'

Point 230 N 2,016,059.2330 E 2,442,042.1380 Sta 1319+47.1955

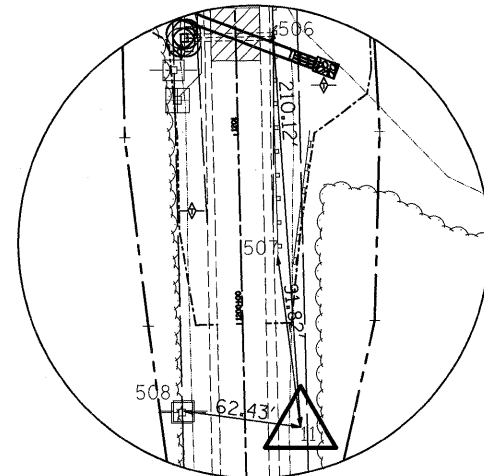
Ending chain CENTERLINE description



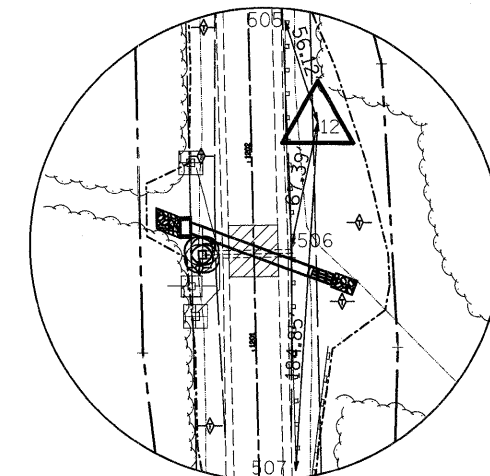
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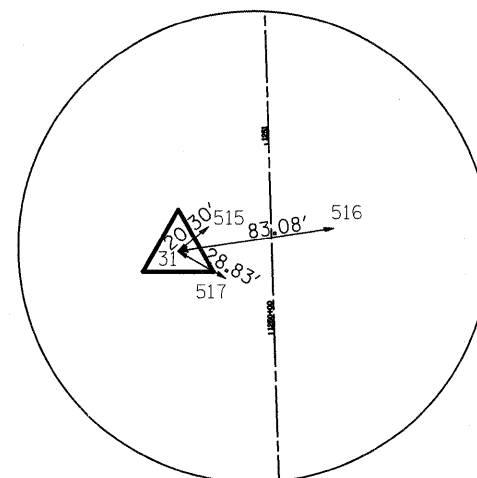
HORIZONTAL CONTROL POINT NO. 2



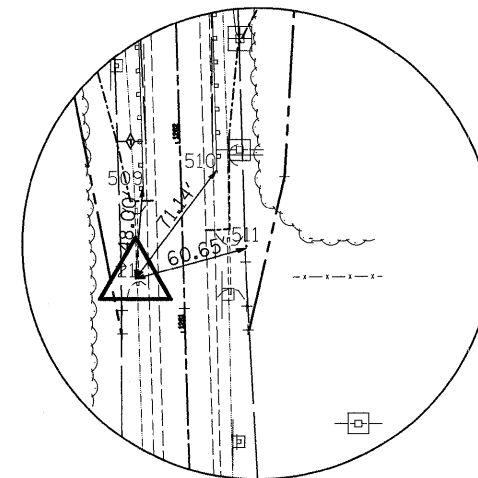
HORIZONTAL CONTROL POINT NO. 11



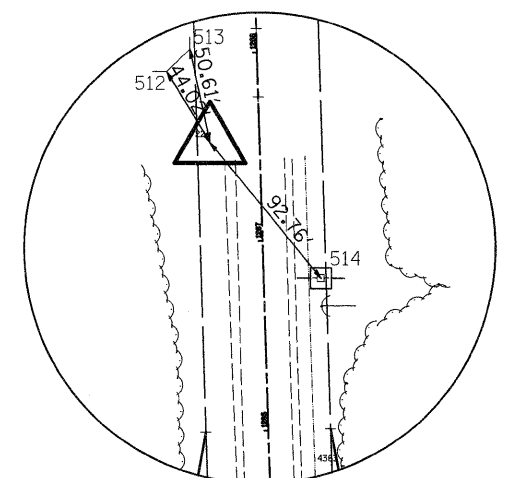
HORIZONTAL CONTROL POINT NO. 12



HORIZONTAL CONTROL POINT NO. 31



HORIZONTAL CONTROL POINT NO. 21



HORIZONTAL CONTROL POINT NO. 22

## REFERENCE TIES

POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	CENTERLINE	1172+15.1774	30.91' LT	POWER POLE, CHISELED "X"
501	CENTERLINE	1172+67.9911	20.308' LT	GUARDRAIL END SECTION, CHISELED "X"
502	CENTERLINE	1173+11.2785	19.0182' RT	GUARDRAIL END SECTION, CHISELED "X"
503	CENTERLINE	1174+86.4572	19.9468' RT	GUARDRAIL END SECTION, CHISELED "X"
504	CENTERLINE	1174+93.1501	20.1139' LT	GUARDRAIL END SECTION, CHISELED "X"
505	CENTERLINE	1202+73.8008	19.4712' RT	GUARDRAIL END SECTION, CHISELED "X"
506	CENTERLINE	1201+54.4843	19.7596' RT	HEADWALL, CHISELED "X"
507	CENTERLINE	1200+35.8684	19.4028' RT	GUARDRAIL END SECTION, CHISELED "X"
508	CENTERLINE	1199+54.4843	32.2458' LT	POWER POLE, CHISELED "X"
509	CENTERLINE	1281+76.6425	20.1973' LT	GUARDRAIL END SECTION, CHISELED "X"
510	CENTERLINE	1281+84.4231	18.9525' RT	GUARDRAIL END SECTION, CHISELED "X"
511	CENTERLINE	1281+42.8533	33.4539' RT	FENCE POST, CONCRETE
512	CENTERLINE	1287+91.2086	48.0089' LT	GATE POST, CONCRETE
513	CENTERLINE	1288+02.7046	35.4224' LT	GATE POST, CONCRETE
514	CENTERLINE	1286+79.4556	30.3391' RT	POWER POLE, CONCRETE
515	CENTERLINE	1250+57.0127	33.2868' LT	FENCE POST, CONCRETE
516	CENTERLINE	1250+54.2942	32.961' RT	FENCE POST, CONCRETE
517	CENTERLINE	1250+29.9553	24.9529' LT	PIPE CULVERT, CMP

FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -
c:\pw_work\PW1DOT\G0FFJL\dms34801\d0036	shvc.dgn	DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Wed Mar 11 10:30:50 2009	DATE -	REVISED -

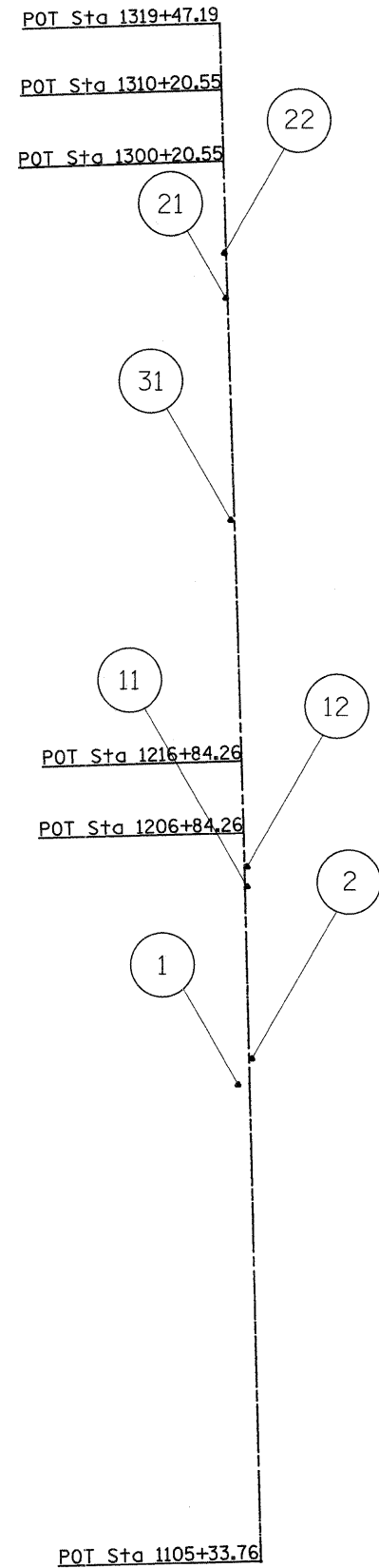
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HORIZONTAL AND VERTICAL CONTROL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	2T	OGLE	48	11
CONTRACT NO. 64851				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# HORIZONTAL & VERTICAL CONTROL



HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2001314.1080	2442324.1440	928.2630	CENTERLINE	1171+99.4891	160.5716' LT	TRAVERSE STATION, PIPE
2	2001673.9630	2442516.4550	935.7533	CENTERLINE	1175+54.2976	40.8982' RT	TRAVERSE STATION, PIPE
11	2004063.1750	2442443.6970	953.7049	CENTERLINE	1199+44.5895	29.3919' RT	TRAVERSE STATION, PIPE
12	2004338.6680	2442442.7310	953.8924	CENTERLINE	1202+20.0168	35.4862' RT	TRAVERSE STATION, PIPE
21	2012241.9810	2442134.1100	935.0719	CENTERLINE	1281+28.9486	25.5787' LT	TRAVERSE STATION, PIPE
22	2012865.6160	2442113.3820	934.2689	CENTERLINE	1287+52.9276	26.2822' LT	TRAVERSE STATION, PIPE
31	2009158.7770	2442209.0810	979.7904	CENTERLINE	1250+44.9267	49.5931' LT	TRAVERSE STATION, PIPE

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	2001495.5200	2442460.0550	934.3740	CENTERLINE	1173+77.3585	20.0562' LT	HEADWALL, CHISELED "X"
401	2004270.7050	2442383.5530	951.4994	CENTERLINE	1201+53.5926	25.414' LT	HEADWALL, CHISELED "X"
402	2012467.0840	2442124.9350	926.2079	CENTERLINE	1283+54.2301	27.5249' LT	HEADWALL, CHISELED "X"

# SCHEDULE OF QUANTITIES

20101400      **NITROGEN FERTILIZER NUTRIENT**

POUND	LOCATION				
36	LT & RT Sta.	1171+50.0	TO	1176+00.0	
36	LT & RT Sta.	1199+50.0	TO	1203+50.0	
28	LT & RT Sta.	1281+50.0	TO	1285+50.0	
100	TOTAL				

Note: 90 pounds fertilizer nutrient per acre.  
Quantities rounded up to the nearest 100 lb per bag

25000310      **SEEDING, CLASS 4**

ACRE	LOCATION				
0.2	LT & RT Sta.	1171+50.0	TO	1176+00.0	
0.1	LT & RT Sta.	1199+50.0	TO	1203+50.0	
0.1	LT & RT Sta.	1281+50.0	TO	1285+50.0	
0.4	TOTAL				

20101500      **PHOSPHORUS FERTILIZER NUTRIENT**

POUND	LOCATION				
36	LT & RT Sta.	1171+50.0	TO	1176+00.0	
36	LT & RT Sta.	1199+50.0	TO	1203+50.0	
28	LT & RT Sta.	1281+50.0	TO	1285+50.0	
100	TOTAL				

Note: 90 pounds fertilizer nutrient per acre.  
Quantities rounded up to the nearest 100 lb per bag

25100115      **MULCH, METHOD 2**

ACRE	LOCATION				
0.4	LT & RT Sta.	1171+50.0	TO	1176+00.0	
0.3	LT & RT Sta.	1199+50.0	TO	1203+50.0	
0.4	LT & RT Sta.	1281+50.0	TO	1285+50.0	
1.0	TOTAL				

20101600      **POTASSIUM FERTILIZER NUTRIENT**

POUND	LOCATION				
36	LT & RT Sta.	1171+50.0	TO	1176+00.0	
36	LT & RT Sta.	1199+50.0	TO	1203+50.0	
28	LT & RT Sta.	1281+50.0	TO	1285+50.0	
100	TOTAL				

Note: 90 pounds fertilizer nutrient per acre.  
Quantities rounded up to the nearest 100 lb per bag

25100630      **EROSION CONTROL BLANKET**

SQ YD	LOCATION				
163	LT Sta.	1173+57.0	TO	1176+00.0	
202	RT Sta.	1172+50.0	TO	1176+00.0	
285	LT Sta.	1199+50.0	TO	1203+50.0	
285	RT Sta.	1199+50.0	TO	1203+50.0	
115	LT Sta.	1282+00.0	TO	1283+50.0	
276	RT Sta.	1281+50.0	TO	1285+25.0	
1326	TOTAL				

see R.O.W , Erosion control & Seeding sheets for spacing and offsets.

20200100      **EARTH EXCAVATION**

CU YD	LOCATION				
430	LT & RT Sta.	1171+50.0	TO	1176+00.0	
365	LT & RT Sta.	1199+50.0	TO	1203+50.0	
135	LT & RT Sta.	1281+50.0	TO	1285+50.0	
930	TOTAL				

28000250      **TEMPORARY EROSION CONTROL SEEDING**

POUND	LOCATION	
921	Entire Job	

\*Based on 7 Calendar days per Location, 100 pound/acre.

21101615      **TOPSOIL FURNISH AND PLACE, 4"**

SQ YD	LOCATION				
1500	LT & RT Sta.	1171+50.0	TO	1176+00.0	
1549	LT & RT Sta.	1199+50.0	TO	1203+50.0	
1355	LT & RT Sta.	1281+50.0	TO	1285+50.0	
4404	TOTAL				

28000300      **TEMPORARY DITCH CHECKS**

EACH	LOCATION				
5	LT Sta.	1174+00.0	TO	1176+00.0	
7	RT Sta.	1172+50.0	TO	1176+00.0	
7	LT Sta.	1199+50.0	TO	1203+50.0	
12	RT Sta.	1199+50.0	TO	1203+50.0	
6	LT Sta.	1282+00.0	TO	1283+50.0	
6	RT Sta.	1281+50.0	TO	1285+00.0	
43	TOTAL				

Noteseee R.O.W , Erosion control & Seeding sheets for spacing and offsets.

25000210      **SEEDING, CLASS 2A**

ACRE	LOCATION				
0.2	LT & RT Sta.	1171+50.0	TO	1176+00.0	
0.2	LT & RT Sta.	1199+50.0	TO	1203+50.0	
0.2	LT & RT Sta.	1281+50.0	TO	1285+50.0	
0.6	TOTAL				

# SCHEDULE OF QUANTITIES

28000400

**PERIMETER EROSION BARRIER**

FOOT	
228	
100	
182	
510	TOTAL

LOCATION				
LT Sta.	1171+50.0	TO	1173+57.1	
RT Sta.	1200+00.0	TO	1201+00.0	
LT Sta.	1283+88.9	TO	1285+50.0	

Note: see R.O.W., Erosion control & Seeding sheets for spacing and offsets.

42001200

**PAVEMENT FABRIC**

SQ YD	
65	
65	
66	
66	
87	
87	
436	TOTAL

LOCATION				
LT Sta.	1173+67.3	TO	1174+12.5	13
RT Sta.	1173+67.3	TO	1174+12.5	13
LT Sta.	1201+38.5	TO	1201+84.1	13
RT Sta.	1201+38.5	TO	1201+84.1	13
LT Sta.	1283+09.0	TO	1283+69.2	13
RT Sta.	1283+09.0	TO	1283+69.2	13

LANE WIDTH (ft)

Note: Areas of class C Patches.

28000500

**INLET AND PIPE PROTECTION**

EACH	
1	
1	
1	
1	
4	TOTAL

LOCATION		OFFSET (ft)
RT Sta.	1172+72.6	26.5
RT Sta.	1173+89.8	
LT Sta.	1201+71.8	
RT Sta.	1283+25.5	

Note: At field entrance pipe culvert end section.

44201383

**CLASS C PATCHES, TYPE IV, 12 INCH**

SQ YD	
65	
65	
66	
66	
87	
87	
436	TOTAL

LOCATION				
LT Sta.	1173+67.3	TO	1174+12.5	13
RT Sta.	1173+67.3	TO	1174+12.5	13
LT Sta.	1201+38.5	TO	1201+84.1	13
RT Sta.	1201+38.5	TO	1201+84.1	13
LT Sta.	1283+09.0	TO	1283+69.2	13
RT Sta.	1283+09.0	TO	1283+69.2	13

LANE WIDTH (ft)

28100107

**STONE RIPRAP, CLASS A4**

SQ YD	
22	
28	
56	
106	TOTAL

LOCATION		
LT Sta.	1173+89.8	
RT Sta.	1201+62.0	
LT Sta.	1283+39.0	

48101200

**AGGREGATE SHOULDERS, TYPE B**

TON	
34	
159	
182	
182	
558	TOTAL

LOCATION				
LT Sta.	1171+50.0	TO	1172+50.0	6
LT & RT Sta.	1172+50.0	TO	1176+00.0	6
LT & RT Sta.	1199+50.0	TO	1203+50.0	6
LT & RT Sta.	1281+50.0	TO	1285+50.0	6

THICKNESS (in)

28200200

**FILTER FABRIC**

SQ YD	
22	
28	
56	
106	TOTAL

LOCATION		
LT Sta.	1173+89.8	
RT Sta.	1201+62.0	
LT Sta.	1283+39.0	

50100300

**REMOVAL OF EXISTING STRUCTURES NO. 1**

EACH	
1	

LOCATION	
Sta.	1173+75.0

50100400

**REMOVAL OF EXISTING STRUCTURES NO. 2**

EACH	
1	

LOCATION	
Sta.	1201+51.0

31100910

**SUB-BASE GRANULAR MATERIAL, TYPE A 12"**

SQ YD	
65	
65	
66	
66	
87	
87	
436	TOTAL

LOCATION				THICKNESS (in)
LT Sta.	1173+67.3	TO	1174+12.5	12
RT Sta.	1173+67.3	TO	1174+12.5	12
LT Sta.	1201+38.5	TO	1201+84.1	12
RT Sta.	1201+38.5	TO	1201+84.1	12
LT Sta.	1283+09.0	TO	1283+69.2	12
RT Sta.	1283+09.0	TO	1283+69.2	12

Area under Class C Patching

50100500

**REMOVAL OF EXISTING STRUCTURES NO. 3**

EACH	
1	

LOCATION	
Sta.	1283+39.0

35101400

**AGGREGATE BASE COURSE, TYPE B**

TON	
89	
90	
119	
86	
35	
419	TOTAL

LOCATION				THICKNESS (in)
LT & RT Sta.	1173+67.3	TO	1174+12.5	12
LT & RT Sta.	1201+38.5	TO	1201+84.1	12
LT & RT Sta.	1283+09.0	TO	1283+69.2	12
RT Sta.	1172+95.0			12
RT Sta.	1281+35.0			12

\*Add Quantities to restore entrance profile. Keep existing entrance pipe in place.

50102600

**CONCRETE REMOVAL**

EACH	
1	
1	
1	
3	TOTAL

LOCATION			
RT Sta.	1281+52.0		
RT Sta.	1283+14.6		
RT Sta.	1283+42.4		

OFFSET (ft)  
32.5  
33

Note: Concrete fence poles.

# SCHEDULE OF QUANTITIES

51500100	<b>NAME PLATES</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">EACH</th> <th style="text-align: center;">LOCATION</th> <th style="text-align: center;">Sta.</th> <th style="text-align: center;">1173+89.8</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td></td> <td style="text-align: center;">Sta.</td> <td style="text-align: center;">1201+61.1</td> </tr> <tr> <td style="text-align: center;">1</td> <td></td> <td style="text-align: center;">Sta.</td> <td style="text-align: center;">1283+39.1</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: right;">TOTAL</td> <td></td> <td></td> </tr> </tbody> </table>	EACH	LOCATION	Sta.	1173+89.8	1		Sta.	1201+61.1	1		Sta.	1283+39.1	3	TOTAL			61133100	<b>FIELD TILE JUNCTION VAULTS, 2' DIA.</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">EACH</th> <th style="text-align: center;">LOCATION</th> <th style="text-align: center;">LT Sta.</th> <th style="text-align: center;">1201+83.3</th> <th style="text-align: center;">RT Sta.</th> <th style="text-align: center;">1283+28.0</th> <th style="text-align: center;">OFFSET (ft)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">41</td> </tr> <tr> <td style="text-align: center;">1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">49</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: right;">TOTAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="font-size: small;">Note: Junction vaults at each field tile connection.</p>	EACH	LOCATION	LT Sta.	1201+83.3	RT Sta.	1283+28.0	OFFSET (ft)	1						41	1						49	2	TOTAL																																																																																																																																																																					
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17						39-33 RT	Box 3																																																																																																																																																																																																								
81	TOTAL																																																																																																																																																																																																														
EACH	LOCATION	LT & RT Sta.	1173+89.0																																																																																																																																																																																																												
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3	TOTAL																																																																																																																																																																																																														

# SCHEDULE OF QUANTITIES

78001110	<u>PAIN T PAVEMENT MARKING - LINE 4"</u>				Z0029002	<u>GRATED CULVERT EXTENSION, NO. 2</u>																																													
	<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">FOOT</th> <th style="text-align: left;">LOCATION</th> <th style="text-align: left;">( 2 APPLICATIONS)</th> <th></th> <th style="text-align: left;">REMARKS</th> </tr> <tr> <td>181</td> <td>Centerline</td> <td>1173+67.3 TO 1174+12.5</td> <td></td> <td>Double Yellow</td> </tr> <tr> <td>181</td> <td>LT &amp; RT Sta.</td> <td>1173+67.3 TO 1174+12.5</td> <td></td> <td>2 white edge lines</td> </tr> <tr> <td>182</td> <td>Centerline</td> <td>1201+38.5 TO 1201+84.1</td> <td></td> <td>Double Yellow</td> </tr> <tr> <td>182</td> <td>LT &amp; RT Sta.</td> <td>1201+38.5 TO 1201+84.1</td> <td></td> <td>2 white edge lines</td> </tr> <tr> <td>241</td> <td>Centerline</td> <td>1283+09.0 TO 1283+69.2</td> <td></td> <td>Double Yellow</td> </tr> <tr> <td>241</td> <td>LT &amp; RT Sta.</td> <td>1283+09.0 TO 1283+69.2</td> <td></td> <td>2 white edge lines</td> </tr> <tr> <td style="border-top: 1px solid black;">1208</td> <td style="text-align: right;">TOTAL</td> <td></td> <td></td> <td></td> </tr> </table>	FOOT	LOCATION	( 2 APPLICATIONS)		REMARKS	181	Centerline	1173+67.3 TO 1174+12.5		Double Yellow	181	LT & RT Sta.	1173+67.3 TO 1174+12.5		2 white edge lines	182	Centerline	1201+38.5 TO 1201+84.1		Double Yellow	182	LT & RT Sta.	1201+38.5 TO 1201+84.1		2 white edge lines	241	Centerline	1283+09.0 TO 1283+69.2		Double Yellow	241	LT & RT Sta.	1283+09.0 TO 1283+69.2		2 white edge lines	1208	TOTAL							<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">EACH</th> <th style="text-align: left;">LOCATION</th> <th style="text-align: left;">REMARKS</th> </tr> <tr> <td>1</td> <td>RT Sta. 1201+61.1</td> <td>BOX 2</td> </tr> </table>	EACH	LOCATION	REMARKS	1	RT Sta. 1201+61.1	BOX 2
FOOT	LOCATION	( 2 APPLICATIONS)		REMARKS																																															
181	Centerline	1173+67.3 TO 1174+12.5		Double Yellow																																															
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1208	TOTAL																																																		
EACH	LOCATION	REMARKS																																																	
1	RT Sta. 1201+61.1	BOX 2																																																	

X0301794	<u>INLET STAND PIPE</u>				Z0029003	<u>GRATED CULVERT EXTENSION, NO. 3</u>																					
	<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">EACH</th> <th style="text-align: left;">LOCATION</th> <th style="text-align: left;">OFFSET (ft)</th> <th style="text-align: left;">REMARKS</th> </tr> <tr> <td>1</td> <td>LT Sta. 1173+76.0</td> <td>40'</td> <td>Box 1</td> </tr> <tr> <td>1</td> <td>LT Sta. 1283+55.7</td> <td>48'</td> <td>Box 3</td> </tr> <tr> <td style="border-top: 1px solid black;">2</td> <td style="text-align: right;">TOTAL</td> <td></td> <td></td> </tr> </table>	EACH	LOCATION	OFFSET (ft)	REMARKS	1	LT Sta. 1173+76.0	40'	Box 1	1	LT Sta. 1283+55.7	48'	Box 3	2	TOTAL						<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">EACH</th> <th style="text-align: left;">LOCATION</th> <th style="text-align: left;">REMARKS</th> </tr> <tr> <td>2</td> <td>LT Sta. 1283+39.1</td> <td>BOX 3</td> </tr> </table>	EACH	LOCATION	REMARKS	2	LT Sta. 1283+39.1	BOX 3
EACH	LOCATION	OFFSET (ft)	REMARKS																								
1	LT Sta. 1173+76.0	40'	Box 1																								
1	LT Sta. 1283+55.7	48'	Box 3																								
2	TOTAL																										
EACH	LOCATION	REMARKS																									
2	LT Sta. 1283+39.1	BOX 3																									

X0322278	<u>RODENT SHIELDS</u>																							
	<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">EACH</th> <th style="text-align: left;">LOCATION</th> <th style="text-align: left;">OFFSET (ft)</th> <th style="text-align: left;">REMARKS</th> </tr> <tr> <td>1</td> <td>RT Sta. 1283+20.0</td> <td>INSIDE DROP BOX</td> <td>Box 3</td> </tr> <tr> <td>1</td> <td>RT Sta. 1283+20.0</td> <td>INSIDE DROP BOX</td> <td>Box 3</td> </tr> <tr> <td style="border-top: 1px solid black;">2</td> <td style="text-align: right;">TOTAL</td> <td></td> <td></td> </tr> </table>	EACH	LOCATION	OFFSET (ft)	REMARKS	1	RT Sta. 1283+20.0	INSIDE DROP BOX	Box 3	1	RT Sta. 1283+20.0	INSIDE DROP BOX	Box 3	2	TOTAL									
EACH	LOCATION	OFFSET (ft)	REMARKS																					
1	RT Sta. 1283+20.0	INSIDE DROP BOX	Box 3																					
1	RT Sta. 1283+20.0	INSIDE DROP BOX	Box 3																					
2	TOTAL																							

\* TO SHIELD BOTH EXTENDED FILED TILES  
SEE SHEET 35A "RODENT PROTECTION" FOR DETAILS

X0323660	<u>DROP BOX NO.1</u>																
	<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">EACH</th> <th style="text-align: left;">LOCATION</th> <th style="text-align: left;">OFFSET (ft)</th> <th style="text-align: left;">REMARKS</th> </tr> <tr> <td>1</td> <td>LT Sta. 1201+71.8</td> <td>33.3' (Center of Drop Box)</td> <td>Box 2</td> </tr> </table>	EACH	LOCATION	OFFSET (ft)	REMARKS	1	LT Sta. 1201+71.8	33.3' (Center of Drop Box)	Box 2								
EACH	LOCATION	OFFSET (ft)	REMARKS														
1	LT Sta. 1201+71.8	33.3' (Center of Drop Box)	Box 2														

Note: Offsets are the perpendicular distance from center line to the center of Drop Box.

X0323661	<u>DROP BOX NO.2</u>																
	<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">EACH</th> <th style="text-align: left;">LOCATION</th> <th style="text-align: left;">OFFSET (ft)</th> <th style="text-align: left;">REMARKS</th> </tr> <tr> <td>1</td> <td>RT Sta. 1283+22.5</td> <td>33.92' (Center of Drop Box)</td> <td>Box 3</td> </tr> </table>	EACH	LOCATION	OFFSET (ft)	REMARKS	1	RT Sta. 1283+22.5	33.92' (Center of Drop Box)	Box 3								
EACH	LOCATION	OFFSET (ft)	REMARKS														
1	RT Sta. 1283+22.5	33.92' (Center of Drop Box)	Box 3														

Note: Offsets are the perpendicular distance from center line to the center of Drop Box.

X4420500	<u>TEMPORARY PAVEMENT PATCH</u>																														
	<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">SQ YD</th> <th style="text-align: left;">LOCATION</th> <th style="text-align: left;">THICKNESS (in)</th> <th style="text-align: left;">E_WIDTH (ft)</th> <th style="text-align: left;">REMARKS</th> </tr> <tr> <td>131</td> <td>LT &amp; RT Sta. 1173+67.3 TO 1174+12.5</td> <td>3</td> <td>13</td> <td>Box 1</td> </tr> <tr> <td>132</td> <td>LT &amp; RT Sta. 1201+38.5 TO 1201+84.1</td> <td>3</td> <td>13</td> <td>Box 2</td> </tr> <tr> <td>174</td> <td>LT &amp; RT Sta. 1283+09.0 TO 1283+69.2</td> <td>3</td> <td>13</td> <td>Box 3</td> </tr> <tr> <td style="border-top: 1px solid black;">436</td> <td style="text-align: right;">TOTAL</td> <td></td> <td></td> <td></td> </tr> </table>	SQ YD	LOCATION	THICKNESS (in)	E_WIDTH (ft)	REMARKS	131	LT & RT Sta. 1173+67.3 TO 1174+12.5	3	13	Box 1	132	LT & RT Sta. 1201+38.5 TO 1201+84.1	3	13	Box 2	174	LT & RT Sta. 1283+09.0 TO 1283+69.2	3	13	Box 3	436	TOTAL								
SQ YD	LOCATION	THICKNESS (in)	E_WIDTH (ft)	REMARKS																											
131	LT & RT Sta. 1173+67.3 TO 1174+12.5	3	13	Box 1																											
132	LT & RT Sta. 1201+38.5 TO 1201+84.1	3	13	Box 2																											
174	LT & RT Sta. 1283+09.0 TO 1283+69.2	3	13	Box 3																											
436	TOTAL																														

Z0005400	<u>BREAKER-RUN CRUSHED STONE</u>																																			
	<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">TON</th> <th style="text-align: left;">LOCATION</th> <th style="text-align: left;">THICKNESS (IN)</th> <th style="text-align: left;">WIDTH (ft)</th> <th style="text-align: left;">LDES. END</th> <th style="text-align: left;">REMARKS</th> </tr> <tr> <td>54</td> <td>LT &amp; RT Sta. 1173+89.12"</td> <td>breaker run+ 6" be</td> <td>8</td> <td>89</td> <td>BOX 1</td> </tr> <tr> <td>41</td> <td>LT &amp; RT Sta. 1201+61.12"</td> <td>breaker run+ 6" be</td> <td>6</td> <td>89</td> <td>BOX 2</td> </tr> <tr> <td>100</td> <td>LT &amp; RT Sta. 1283+39.12"</td> <td>breaker run+ 6" be</td> <td>14.6</td> <td>90.7</td> <td>BOX 3</td> </tr> <tr> <td style="border-top: 1px solid black;">195</td> <td style="text-align: right;">TOTAL</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	TON	LOCATION	THICKNESS (IN)	WIDTH (ft)	LDES. END	REMARKS	54	LT & RT Sta. 1173+89.12"	breaker run+ 6" be	8	89	BOX 1	41	LT & RT Sta. 1201+61.12"	breaker run+ 6" be	6	89	BOX 2	100	LT & RT Sta. 1283+39.12"	breaker run+ 6" be	14.6	90.7	BOX 3	195	TOTAL									
TON	LOCATION	THICKNESS (IN)	WIDTH (ft)	LDES. END	REMARKS																															
54	LT & RT Sta. 1173+89.12"	breaker run+ 6" be	8	89	BOX 1																															
41	LT & RT Sta. 1201+61.12"	breaker run+ 6" be	6	89	BOX 2																															
100	LT & RT Sta. 1283+39.12"	breaker run+ 6" be	14.6	90.7	BOX 3																															
195	TOTAL																																			

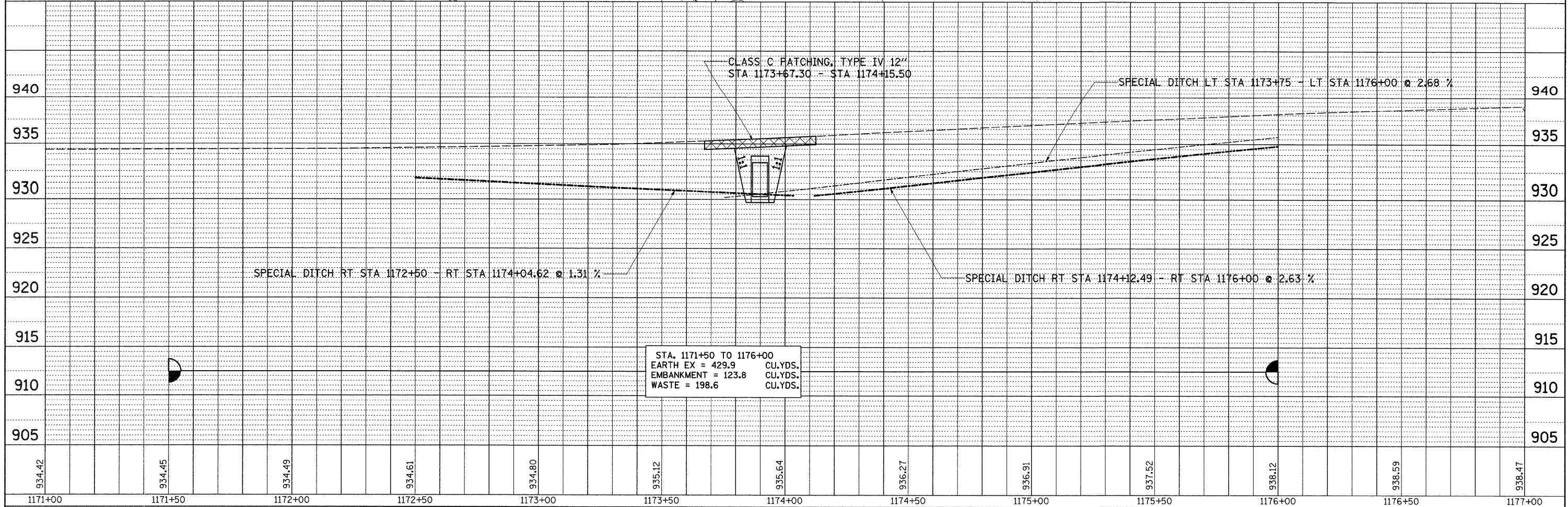
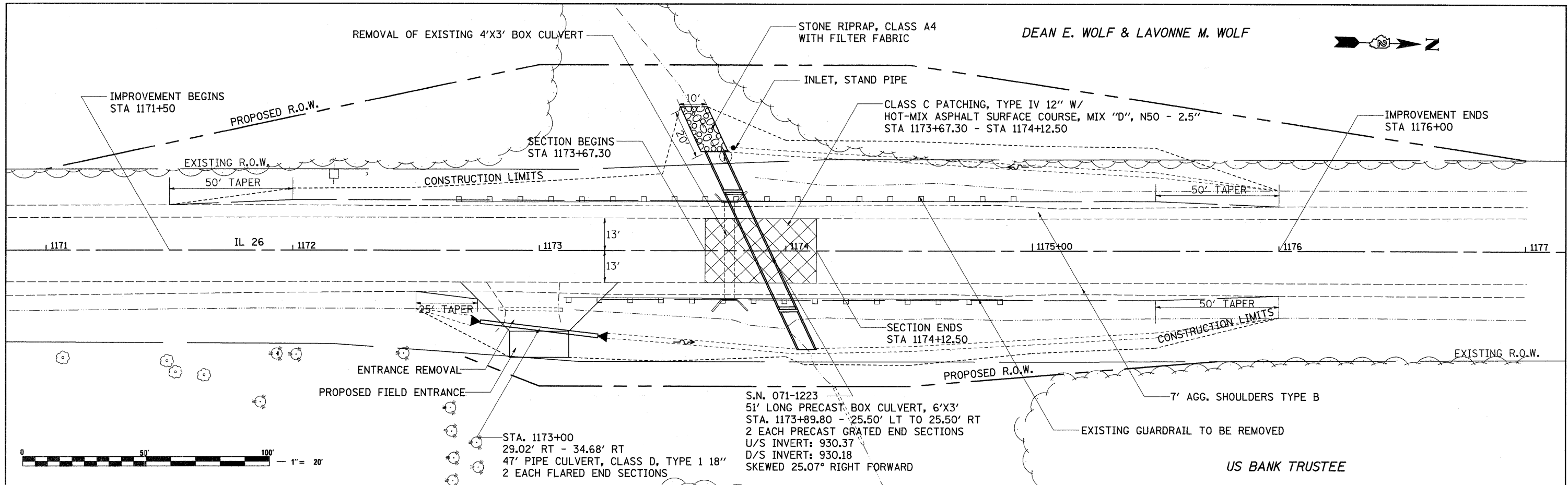
Note: Pay for 12-Inches thickness of Breaker-run crushed stone only.  
The 6" bedding is incidental to Box Culvert.

Z0029001	<u>GRATED CULVERT EXTENSION, NO. 1</u>														
	<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">EACH</th> <th style="text-align: left;">LOCATION</th> <th style="text-align: left;">REMARKS</th> </tr> <tr> <td>2</td> <td>LT &amp; RT Sta. 1173+89.8</td> <td>BOX 1</td> </tr> </table>	EACH	LOCATION	REMARKS	2	LT & RT Sta. 1173+89.8	BOX 1								
EACH	LOCATION	REMARKS													
2	LT & RT Sta. 1173+89.8	BOX 1													



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
 PLAN: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
 CAD FILE NAME: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
 STRUCTURE NOTATION: CHKD



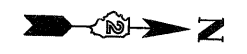
STA. 1171+50 TO 1176+00  
 EARTH EX = 429.9 CU.YDS.  
 EMBANKMENT = 123.8 CU.YDS.  
 WASTE = 198.6 CU.YDS.

FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				IL 26 CULVERTS				F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 17	
CONTRACT NO. 64851	SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT										

VIRGIL L. BOCKER & JUDITH A. BOCKER

FIELD TILE JUNCTION VAULTS 2' DIA.  
 8' STORM SEWERS, CLASS A, TYPE 2 18"  
 EXPLORATION TRENCH 52" DEPTH  
 FIELD TILE TO BE REMOVED  
 REMOVAL OF EXISTING 4'X3' BOX CULVERT

S.N. 071-1224  
 61.50' LONG PRECAST BOX CULVERT, 5'X3'  
 STA. 1201+61.08 - 29.50' LT TO 32.00' RT  
 PRECAST GRATED END SECTION - RT (SEE DETAIL)  
 PRECAST DROP STRUCTURE - LT (SEE DETAIL)  
 U/S INVERT: 947.46  
 D/S INVERT: 946.99  
 SKEWED 21.56° LEFT FORWARD



IMPROVEMENT BEGINS  
 STA 1199+50

SECTION BEGINS  
 STA 1201+38.45

SECTION ENDS  
 STA 1201+84.06

PROPOSED R.O.W.

EXISTING R.O.W.

CONSTRUCTION LIMITS

50' TAPER

50' TAPER

1199

IL 26

1200+00

1201

1202

1203

1204

EXISTING R.O.W.

PROPOSED R.O.W.

CONSTRUCTION LIMITS

50' TAPER

IMPROVEMENT ENDS  
 STA 1203+50

7' AGG. SHOULDERS TYPE B

EXISTING GUARDRAIL TO BE REMOVED

US BANK TRUSTEE



CLASS C PATCHING, TYPE IV 12" W/  
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 2.5"  
 STA 1201+38.45 - STA 1201+84.06

STONE RIPRAP, CLASS A4  
 WITH FILTER FABRIC

CLASS C PATCHING, TYPE IV 12"  
 STA 1201+38.45 - STA 1201+84.06

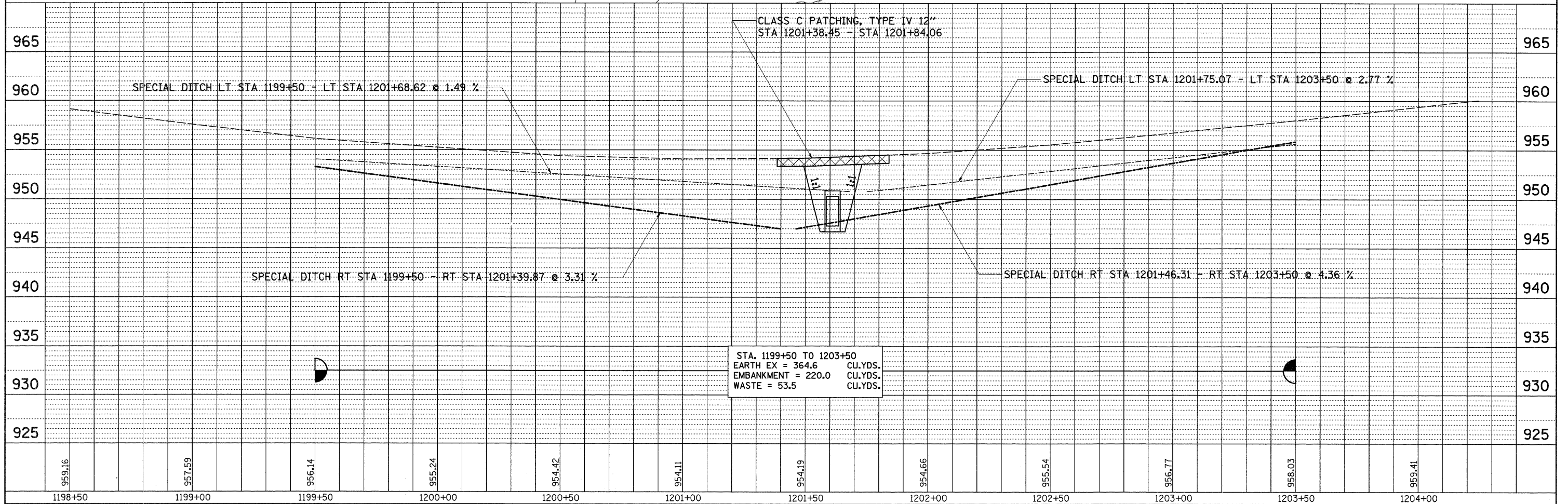
SPECIAL DITCH LT STA 1199+50 - LT STA 1201+68.62 @ 1.49 %

SPECIAL DITCH LT STA 1201+75.07 - LT STA 1203+50 @ 2.77 %

SPECIAL DITCH RT STA 1199+50 - RT STA 1201+39.87 @ 3.31 %

SPECIAL DITCH RT STA 1201+46.31 - RT STA 1203+50 @ 4.36 %

STA. 1199+50 TO 1203+50  
 EARTH EX = 364.6 CU.YDS.  
 EMBANKMENT = 220.0 CU.YDS.  
 WASTE = 53.5 CU.YDS.



PLAN  
 SURVEYED  
 PLOTTED  
 CHECKED  
 NO. OF WAY CHECKED  
 DATE  
 FILE NAME

PROFILE  
 SURVEYED  
 PLOTTED  
 CHECKED  
 DATE  
 FILE NAME

FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 26 CULVERTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pw\work\WIDOT\GOFFJL\dms34821\d00303\InL.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			316	2T	OGLE	48	18
PLOT DATE = Wed Mar 11 10:31:33 2009	CHECKED -	REVISED -	CONTRACT NO. 64851							
	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

ELDON E. DEWALL & ELSIE L. DEWALL

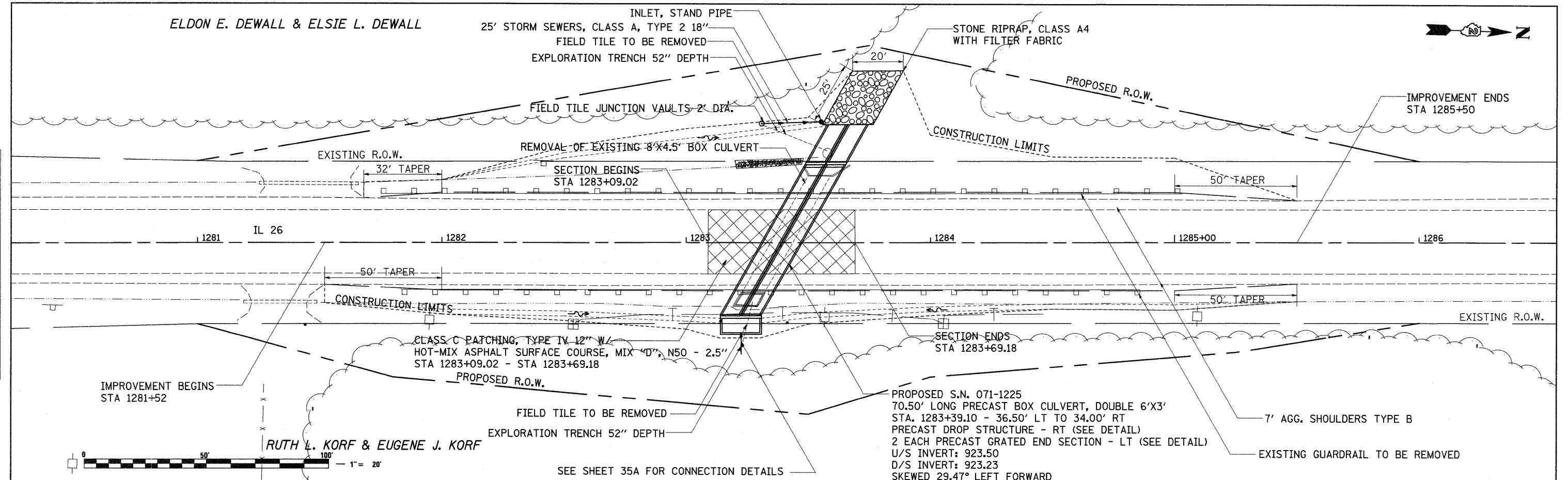
INLET, STAND PIPE  
25" STORM SEWERS, CLASS A, TYPE 2 18"  
FIELD TILE TO BE REMOVED  
EXPLORATION TRENCH 52" DEPTH

STONE RIPRAP, CLASS A4  
WITH FILTER FABRIC



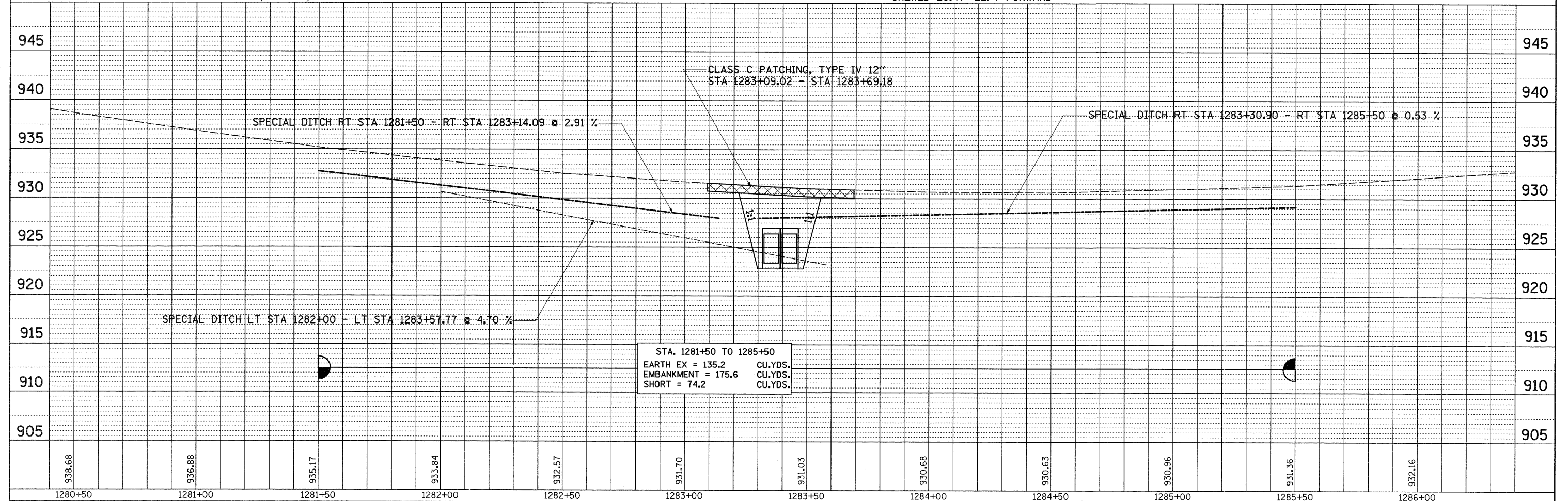
PLAN	BY	DATE
REVISIONS		
NO.	DESCRIPTION	
1	AS SHOWN	

PROFILE	BY	DATE
REVISIONS		
NO.	DESCRIPTION	
1	AS SHOWN	



RUTH L. KORF & EUGENE J. KORF

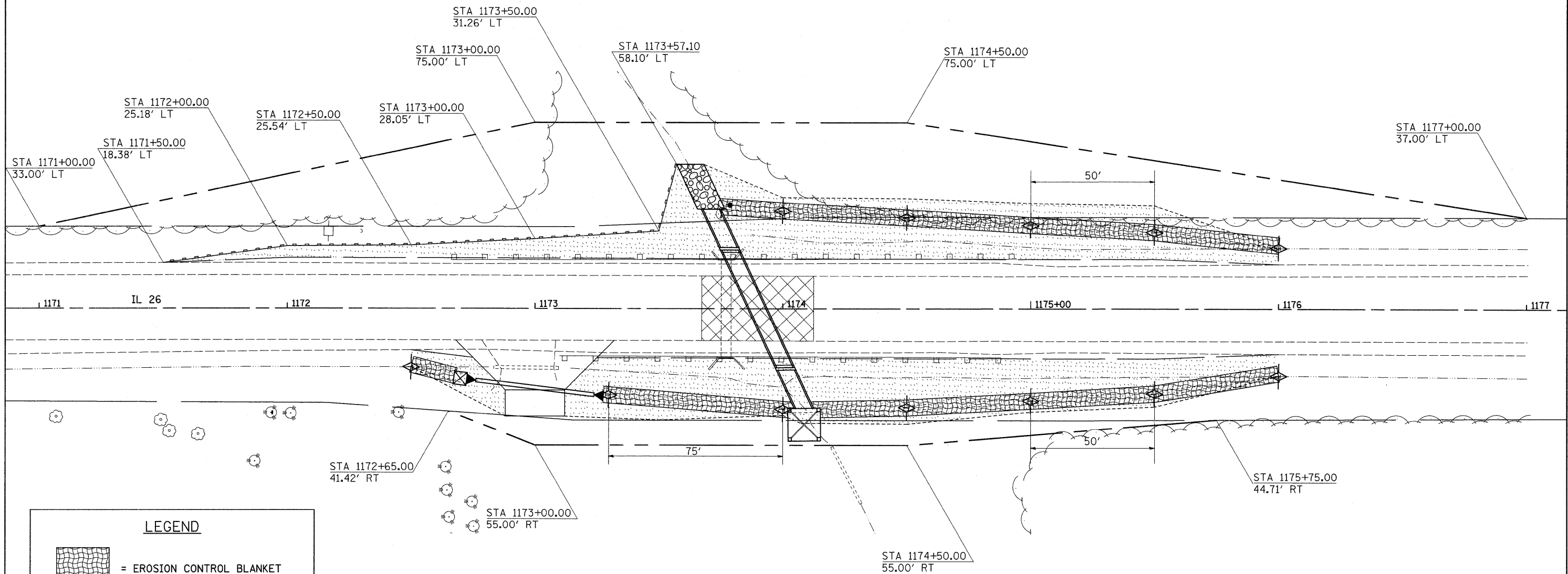
SEE SHEET 35A FOR CONNECTION DETAILS








STA. 1281+50 TO 1285+50	
EARTH EX = 135.2	CU.YDS.
EMBANKMENT = 175.6	CU.YDS.
SHORT = 74.2	CU.YDS.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IL 26 CULVERTS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\grantpm\dms34801\d00303.pln1.dgn		DRAWN -	REVISED -			316	2T	OGL	48	19		
PLOT SCALE = 20.0000 "/td> <td></td> <td>CHECKED -</td> <td>REVISED -</td> <td colspan="4">SCALE: SHEET NO. OF SHEETS STA. TO STA.</td> <td colspan="4">CONTRACT NO. 64851</td>		CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 64851				
PLOT DATE = Fri Apr 03 14:58:10 2009		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

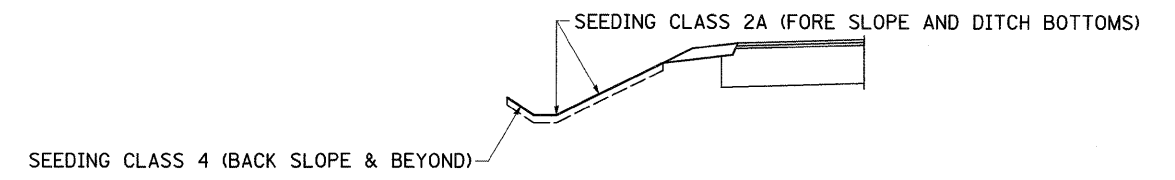
# R.O.W., EROSION CONTROL, & SEEDING DETAILS



**LEGEND**

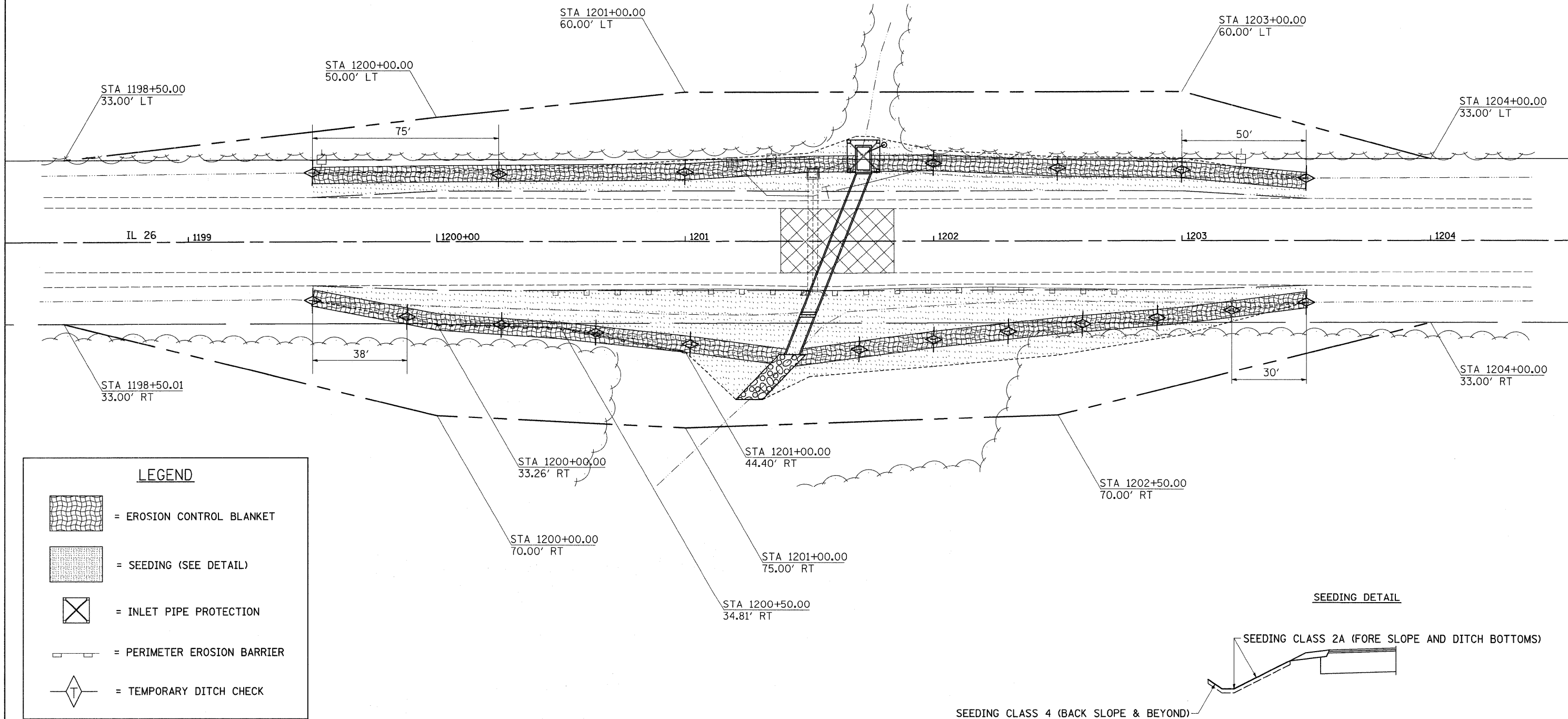
-  = EROSION CONTROL BLANKET
-  = SEEDING (SEE DETAIL)
-  = INLET PIPE PROTECTION
-  = PERIMETER EROSION BARRIER
-  = TEMPORARY DITCH CHECK

**SEEDING DETAIL**

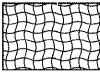

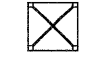




FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>R.O.W., EROSION CONTROL AND SEEDING DETAILS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct\pwork\PW1DOT\GOFFJL\dms34801\d00363er.dgn		DRAWN -	REVISED -						316	2T	OGLE	48	20
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 64851								
PLOT DATE = Wed Mar 11 10:29:49 2009		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

# R.O.W., EROSION CONTROL, & SEEDING DETAILS

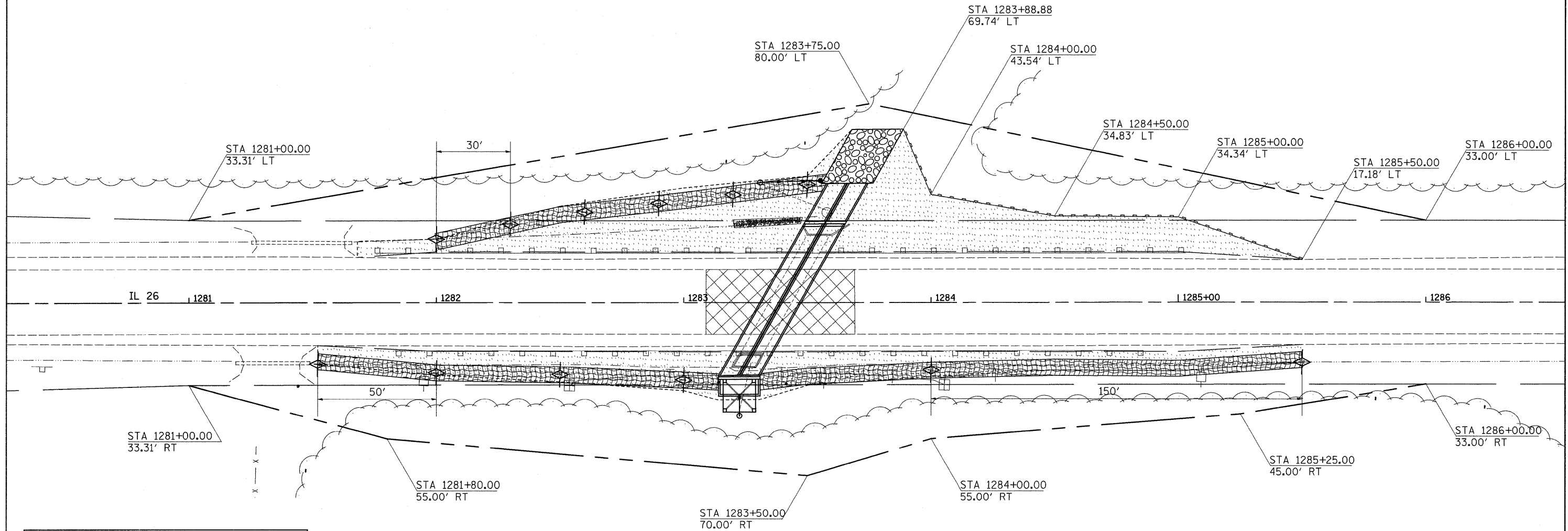
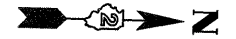







**LEGEND**

-  = EROSION CONTROL BLANKET
-  = SEEDING (SEE DETAIL)
-  = INLET PIPE PROTECTION
-  = PERIMETER EROSION BARRIER
-  = TEMPORARY DITCH CHECK

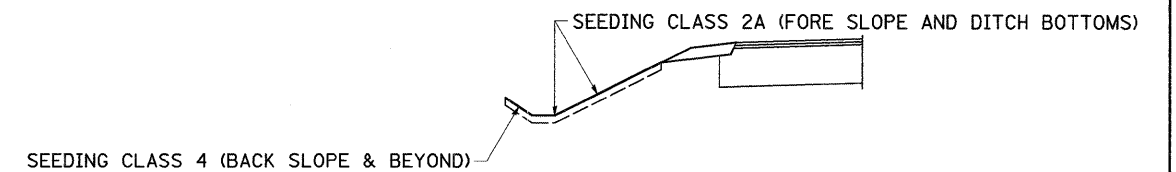
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ct\pw_work\PWIDOT\GOFFJL\dms34801\d00363er.dgn		DRAWN -	REVISED -			316	2T	OGLE	48	21
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64851				
PLOT DATE = Wed Mar 11 10:29:51 2009		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
SCALE: SHEET NO. OF SHEETS STA. TO STA.										

# R.O.W., EROSION CONTROL, & SEEDING DETAILS



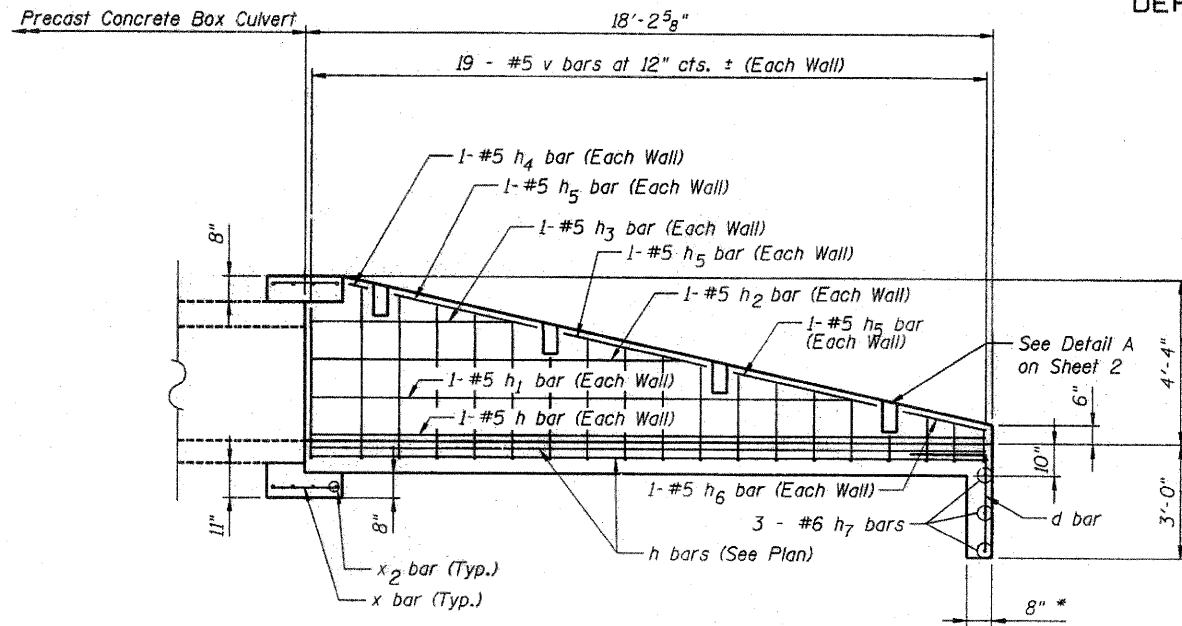
LEGEND	
	= EROSION CONTROL BLANKET
	= SEEDING (SEE DETAIL)
	= INLET PIPE PROTECTION
	= PERIMETER EROSION BARRIER
	= TEMPORARY DITCH CHECK

### SEEDING DETAIL

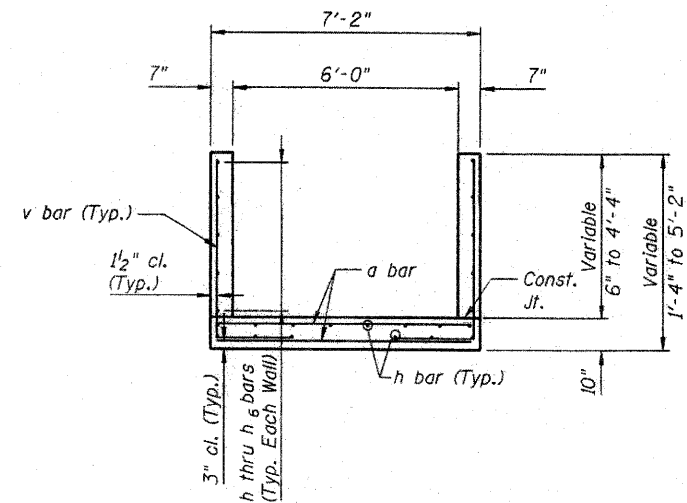


FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>R.O.W., EROSION CONTROL AND SEEDING DETAILS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\FWIDOT\GOFFJL\dms34801\d20333er.dgn	DRAWN -	REVISED -	316			2T	OGLE	48	22	
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64851							
PLOT DATE = Wed Mar 11 10:29:53 2009	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			

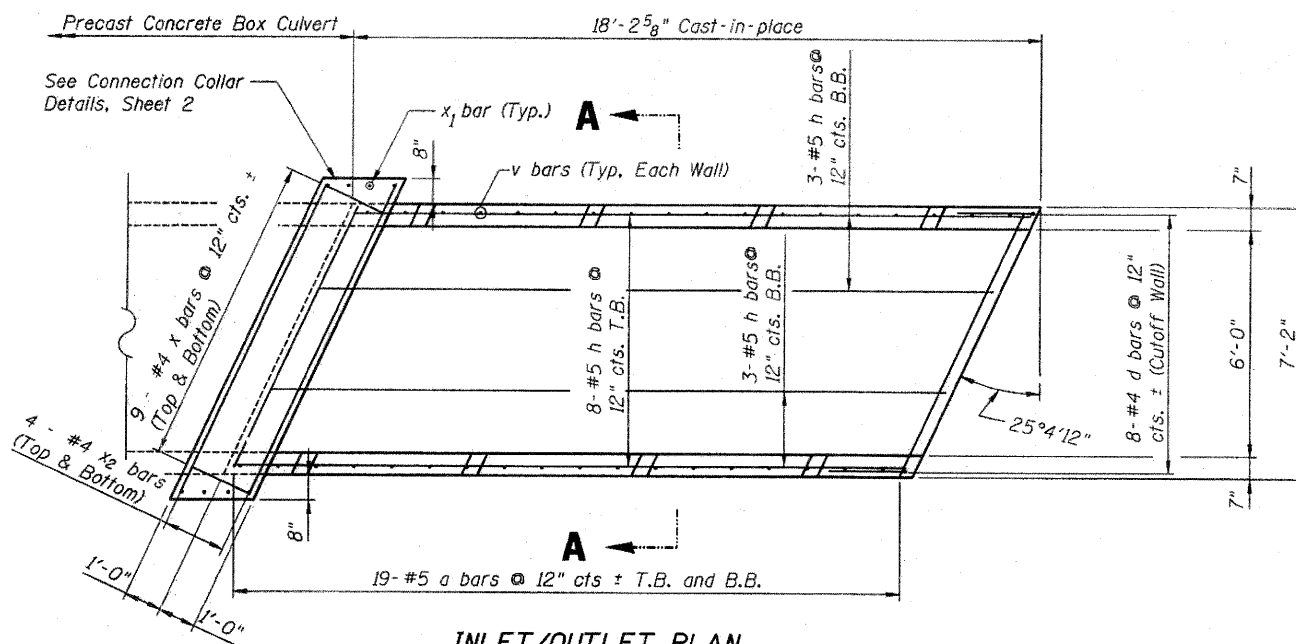
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



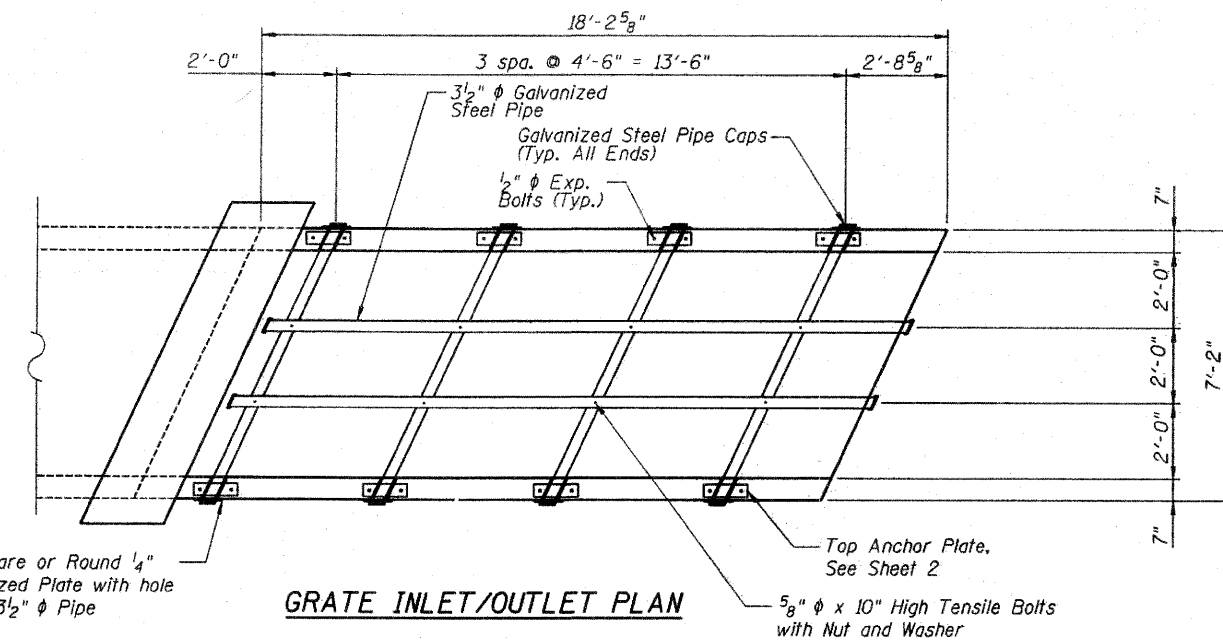
**INLET/OUTLET ELEVATION**  
(1 END SECTION, EACH END)  
(2 TOTAL)  
• Measured Perpendicular to  $\perp$  IL 26



**SECTION A-A**



**INLET/OUTLET PLAN**



**GRATE INLET/OUTLET PLAN**  
(1 END SECTION EACH END)  
(2 TOTAL)

**GRATED END SECTION NO. 1**  
**STATION 1173+89.80**  
**PLAN AND DETAILS**

DESIGNED - JLA
CHECKED - SB
DRAWN - AJP
CHECKED - JLA

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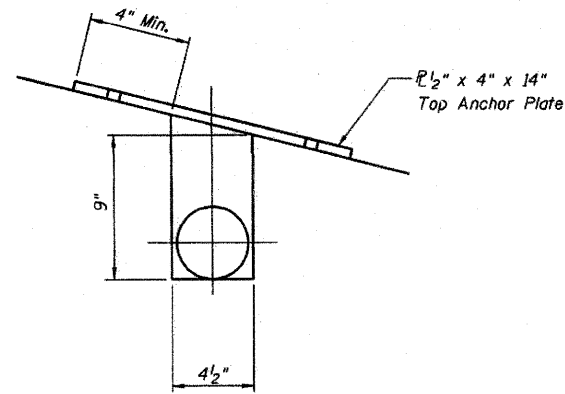
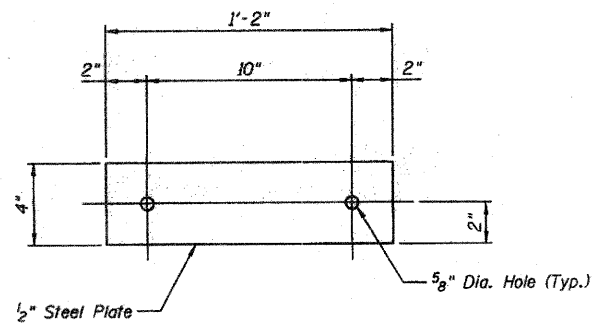
**LEGEND**  
T.B. = TOP OF BOTTOM SLAB  
B.B. = BOTTOM OF BOTTOM SLAB



Jennifer L. Anderson 6/6/08  
JENNIFER L. ANDERSON, S.E., P.E.  
LICENSE NO: 081-005858  
EXPIRES: 11/2008

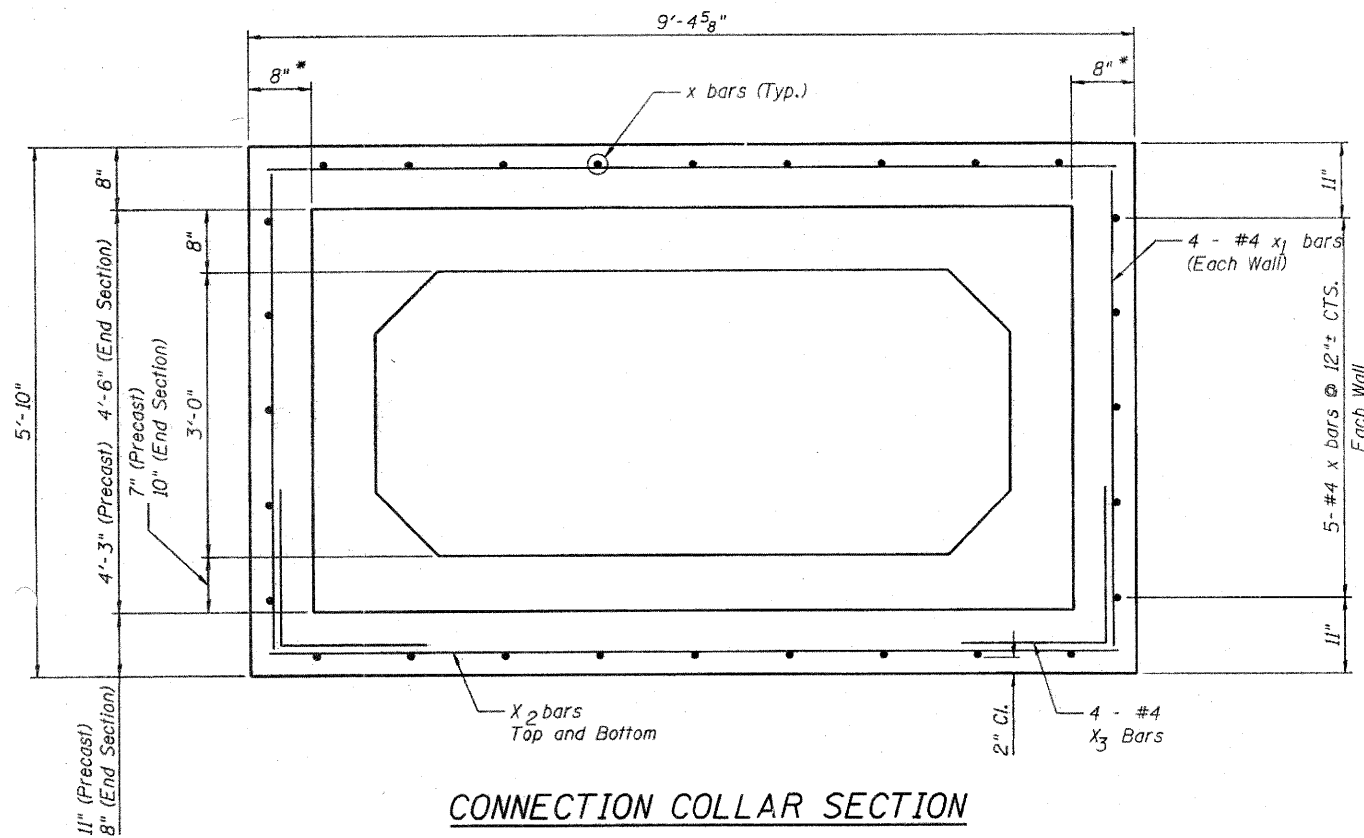
SHEET NO. 1 10 SHEETS	F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 23
	D-92-003-03		CONTRACT NO. 64851		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

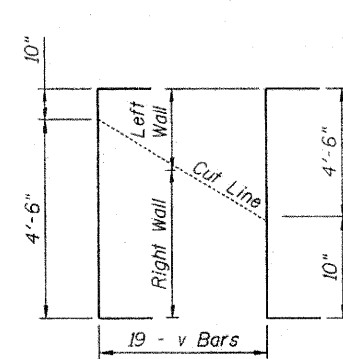


**TOP ANCHOR PLATE**  
(8 TOTAL)

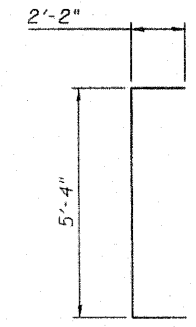
**DETAIL 'A'**



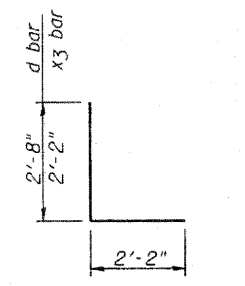
**CONNECTION COLLAR SECTION**



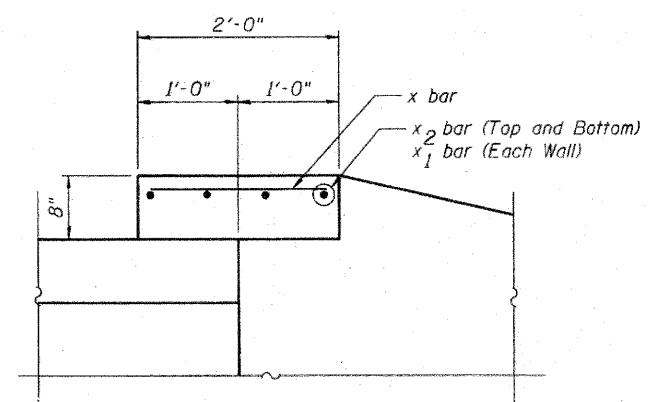
**BAR v  
CUTTING DIAGRAM**



**BAR v**



**BARS d and x3**



**COLLAR DETAIL**



**\* STEEL PIPE GRATING  
BILL OF MATERIAL**

DESCRIPTION	UNIT	QTY
5/8" X 10" Galv. Steel Bolts	Each	8
3 1/2" Galv. Steel Pipe	Ø4	8'-3"
3 1/2" Galv. Steel Pipe	Ø2	17'-0"
3 1/2" Galv. Pipe Caps	Each	12
1/2" X 4" X 14" Galv. Plate	Each	8
1/4" Galv. Steel Plate (9" Nominal)	Each	8

\* Quantities given are for each Grated End Section.  
For informational purposes only.

**\*\* CONNECTION COLLAR  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
x	28	4	1'-9"	
x1	8	4	5'-3"	
x2	8	4	9'-0"	
x3	8	4	4'-4"	
Concrete Structures		Cu.Yd.		1.4
Reinforcement Bars		Pound		130

\*\* Quantities given are for each Grated End Section for informational purposes only. Cost to be included in the Bid Item "PRECAST CONCRETE BOX CULVERT 3'X6'".

**\*\*\* BOX CULVERT END SECTION NO. 1  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	38	5	7'-8"	
d	8	4	4'-10"	
h	16	5	17'-10"	
h1	2	5	14'-4"	
h2	2	5	9'-10"	
h3	2	5	5'-4"	
h4	2	5	0'-6"	
h5	6	5	3'-10"	
h6	2	5	2'-3"	
h7	3	6	7'-8"	
v	19	5	9'-8"	
Concrete Structures		Cu. Yd.		7.2
Reinforcement Bars		Pound		940

\*\*\* Quantities given are for each Grated End Section. For informational purposes only.

**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of ASTM A707 GR. 60 (IL Modified), see Special Provisions.

Steel pipes shall conform to A.S.T.M. A-53 (TYPE E OR S) Grade B, Schedule 40, and shall be galvanized to A.S.T.M. A-120.

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 1006.08 of the Standard Specifications and shall be galvanized.

The contract unit price "EACH" for Grated End Section No. 1 shall include the Expansion Bolts, Galvanized Pipes, Class SI Concrete, Bolts, Nuts, Reinforcement, Washers, and Steel Plates.

Contractor shall field verify galvanized pipe length.

**GRATED END SECTION NO. 1  
STATION 1173+89.80  
DETAILS**

DESIGNED - JLA
CHECKED - SB
DRAWN - AJP
CHECKED - JLA

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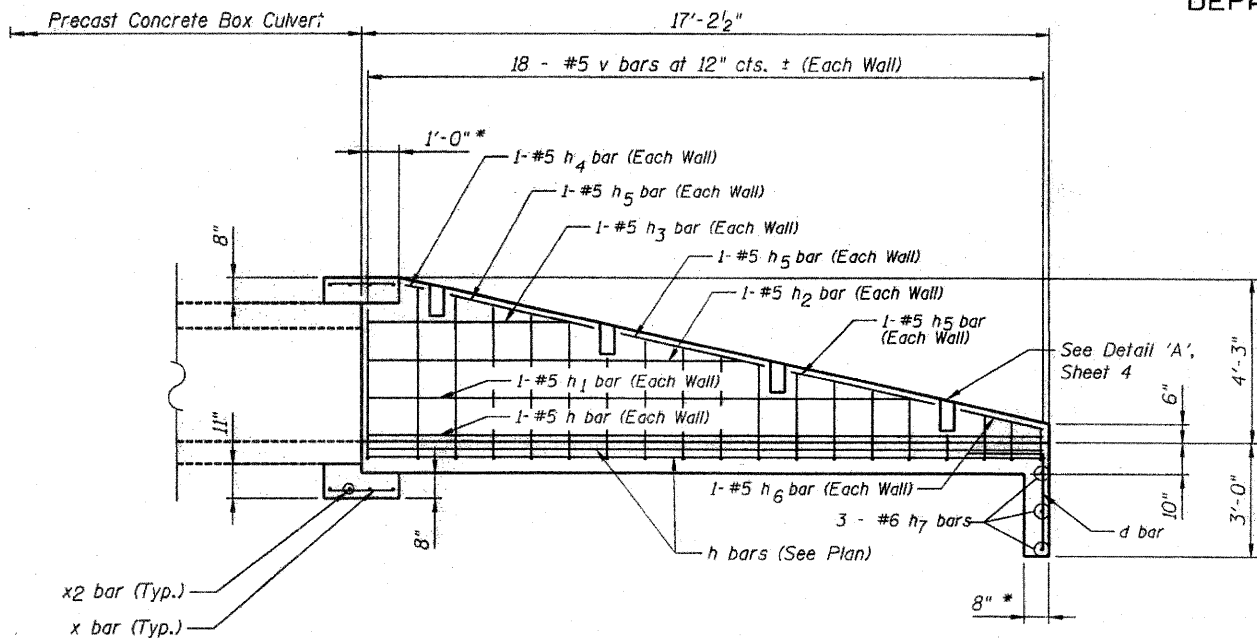
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SHEET NO. 2 10 SHEETS	F.A.P RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 24
	D-92-003-03		CONTRACT NO. 64851		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

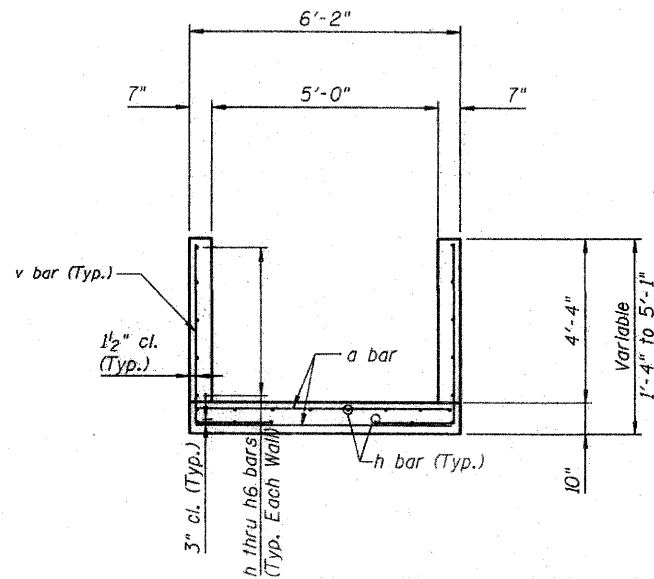


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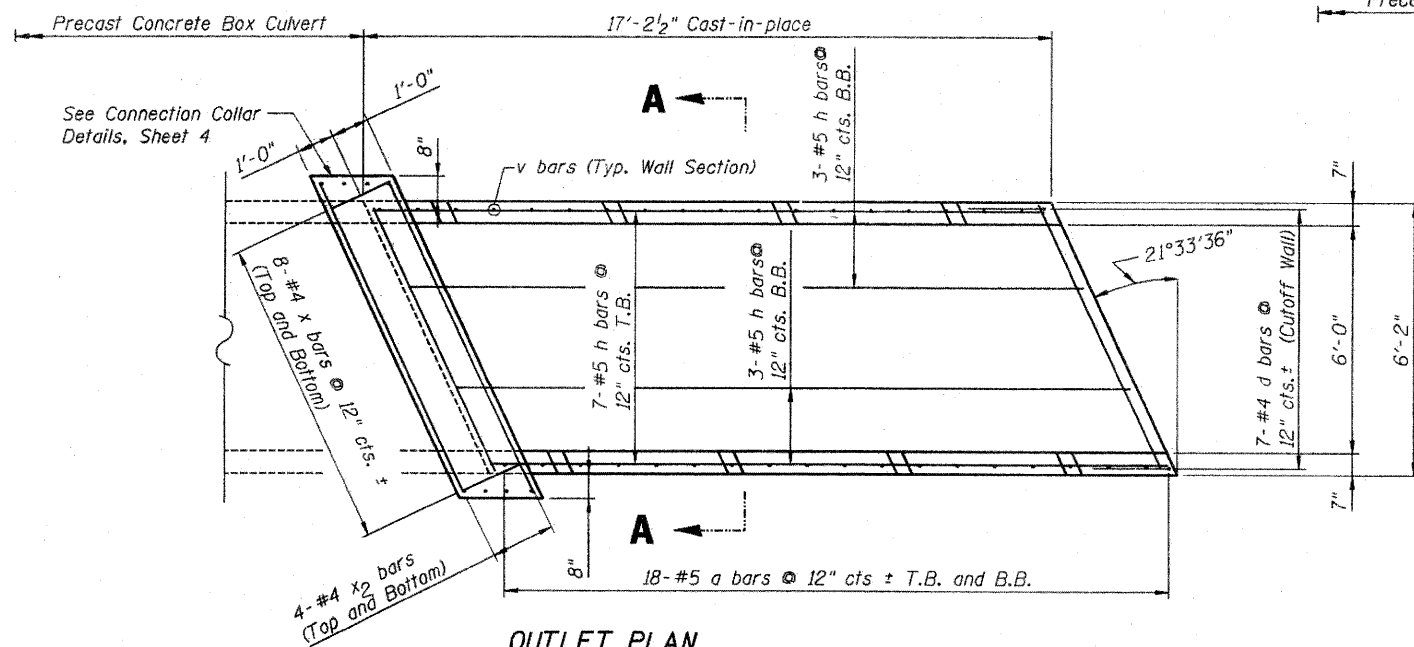


**OUTLET ELEVATION**

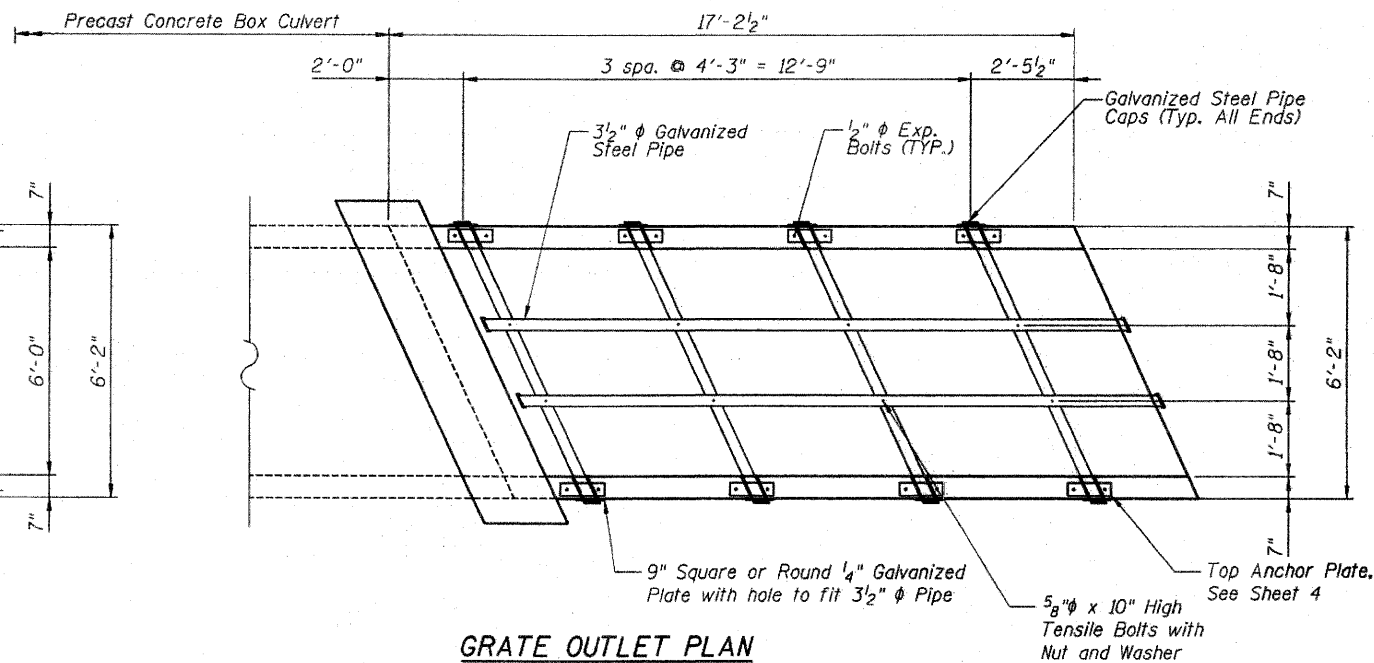
\* Measured perpendicular to  $\phi$  IL 26



**SECTION A-A**



**OUTLET PLAN**



**GRATE OUTLET PLAN**

**GRATED END SECTION NO. 2**  
**STATION 1201+61.08**  
**PLAN AND DETAILS**

**LEGEND**

T.B. = TOP OF BOTTOM SLAB  
B.B. = BOTTOM OF BOTTOM SLAB



Jennifer L. Anderson 10/10/08  
JENNIFER L. ANDERSON, S.E., P.E.  
LICENSE NO. 081-005858  
EXPIRES 11/2008

DESIGNED - JLA
CHECKED - SB
DRAWN - AJP
CHECKED - JLA

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SHEET NO. 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	2T	OGLE	48	25
10 SHEETS	D-92-003-03		CONTRACT NO. 64851		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* STEEL PIPE GRATING  
BILL OF MATERIAL

DESCRIPTION	UNIT	QTY
5/8" X 10" Galv. Steel Bolts	Each	8
3 1/2" Galv. Steel Pipe	Ø4	7'-0"
3 1/2" Galv. Steel Pipe	Ø2	15'-8"
3 1/2" Galv. Pipe Caps	Each	12
1/2" X 4" X 14" Galv. Plate	Each	8
1/4" Galv. Steel Plate (9" Nominal)	Each	8

\*\* CONNECTION COLLAR  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
x	26	4	1'-9"	—
x1	8	4	5'-2"	—
x2	8	4	7'-8"	—
x3	8	4	4'-4"	—
Concrete Structures		Cu. Yd.		1.3
Reinforcement Bars		Pound		120

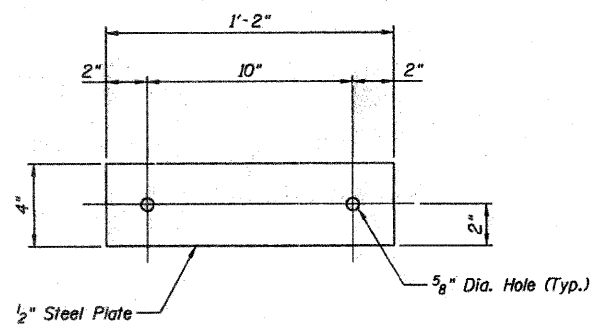
\*\* For informational purposes only. Cost to be included in the bid item "PRECAST CONCRETE BOX CULVERT 3'X5'".

\* For informational purposes only.

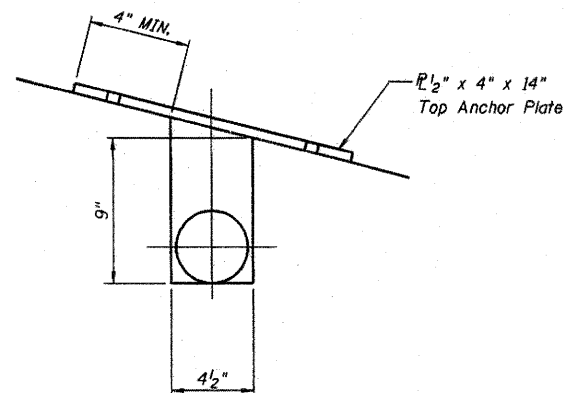
\*\*\* BOX CULVERT END SECTION NO. 2  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	36	5	6'-4"	—
d	7	4	4'-10"	—
h	15	5	16'-11"	—
h1	2	5	13'-9"	—
h2	2	5	9'-6"	—
h3	2	5	5'-3"	—
h4	2	5	0'-6"	—
h5	6	5	3'-7"	—
h6	2	5	2'-0"	—
h7	3	6	6'-4"	—
v	18	5	9'-8"	—
Concrete Structures		Cu. Yd.		6.2
Reinforcement Bars		Pound		790

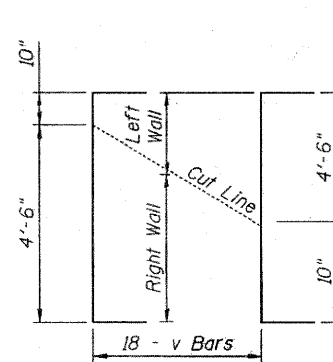
\*\*\* For informational purposes only.



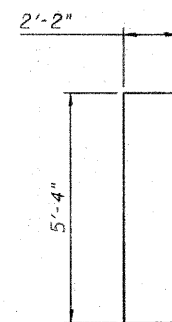
TOP ANCHOR PLATE  
(8 TOTAL)



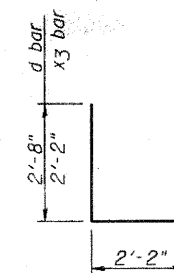
DETAIL 'A'



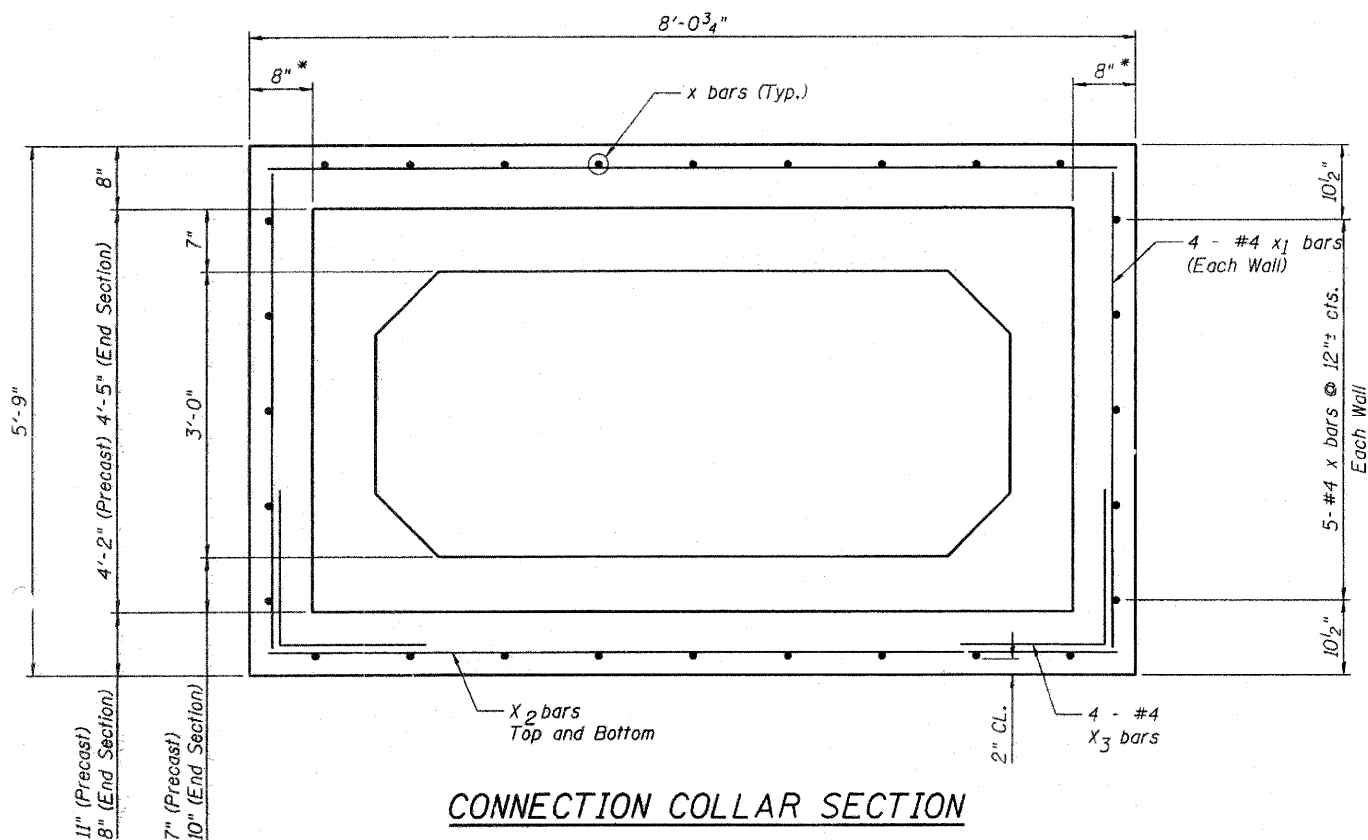
BAR v  
CUTTING DIAGRAM



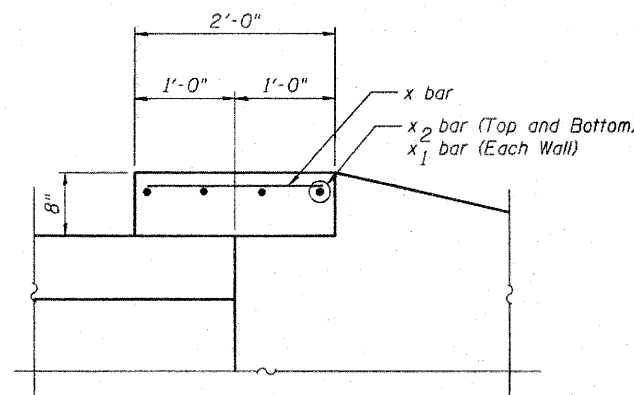
BAR v



BARS d and x3



CONNECTION COLLAR SECTION



COLLAR DETAIL

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A707 GR. 60 (IL Modified), see Special Provisions.

Steel pipes shall conform to A.S.T.M. A-53 (TYPE E OR S) Grade B, Schedule 40, and shall be galvanized to A.S.T.M. A-120.

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 1006.08 of the Standard Specifications and shall be galvanized.

The contract unit price "EACH" for Grated End Section No. 2 shall include the Expansion Bolts, Galvanized Pipes, Class SI Concrete, Bolts, Nuts, Reinforcement, Washers, and Steel Plates.

Contractor shall field verify galvanized pipe length.

GRATED END SECTION NO. 2  
STATION 1201+61.08  
DETAILS

DESIGNED -	JLA
CHECKED -	SB
DRAWN -	AJP
CHECKED -	JLA

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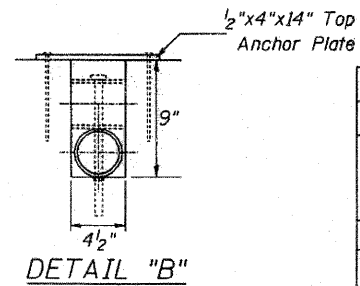
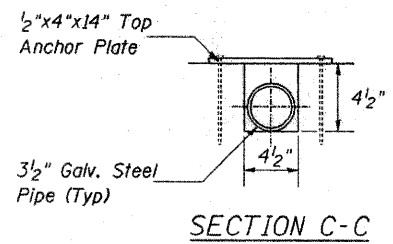
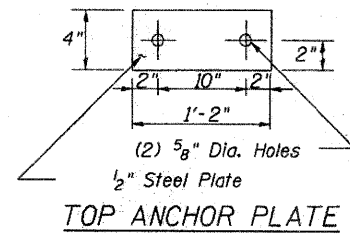
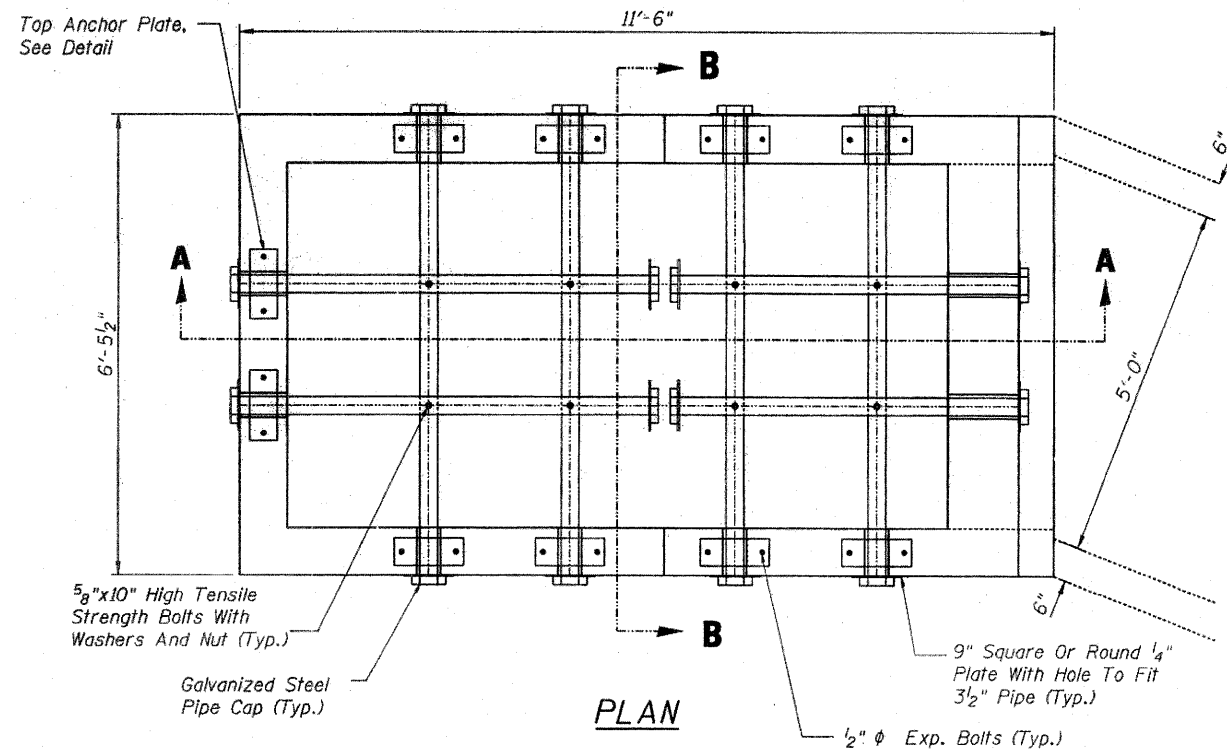
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JENNIFER L. ANDERSON, S.E., P.E.  
LICENSE NO: 081-005858  
EXPIRES: 11/2008

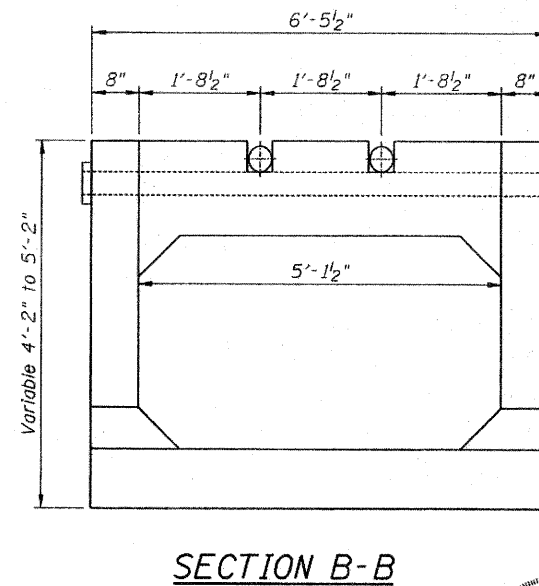
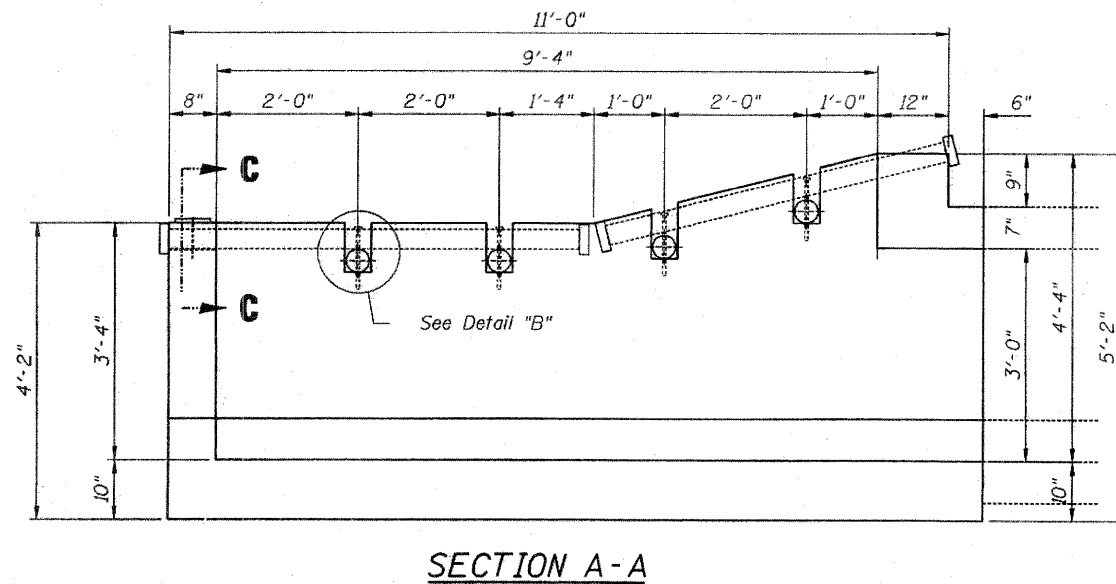
SHEET NO. 4 10 SHEETS	F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 26
	D-92-003-03		CONTRACT NO. 64851		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**BILL OF MATERIAL**

DESCRIPTION	UNIT	QTY
5/8" X 10" Galv. Steel Bolts	Each	8
3 1/2" Galv. Steel Pipe	Ø4	6'-10"
3 1/2" Galv. Steel Pipe	Ø2	6'-0"
3 1/2" Galv. Steel Pipe	Ø2	5'-4"
3 1/2" Galv. Pipe Caps	Each	16
1/2" X 4" X 14" Galv. Plate	Each	10
1/4" Galv. Steel Plate (9" Nominal)	Each	12



**GENERAL NOTES**

This work shall be done according to the applicable portions of Sections 503, 508, and 542 of the Standard Specifications.

The contract unit price "each" for DROP BOX NO. 1 shall include the Expansion Bolts, Galvanized Pipe, Class SI Concrete, Reinforcement, 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

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 1006.08 of the Standard Specifications and shall be galvanized.

Contractor shall field verify Galvanized pipe length.

DESIGNED - JLA
CHECKED - SB
DRAWN - AJP
CHECKED - JLA

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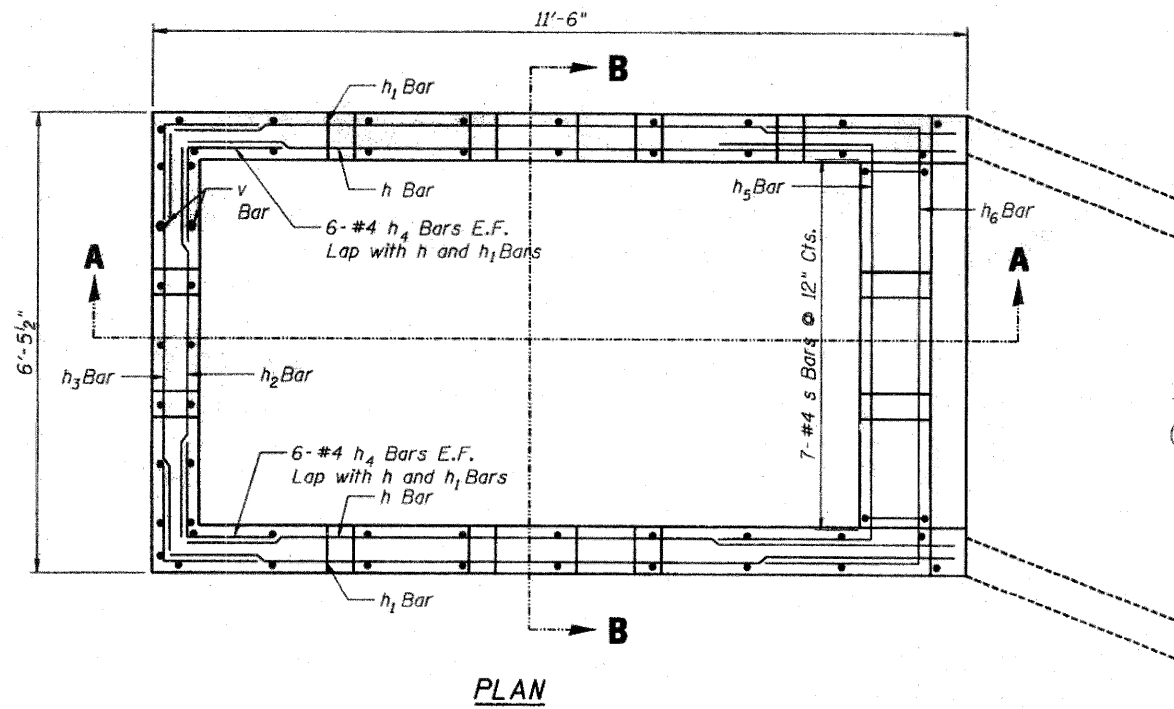


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JENNIFER L. ANDERSON, S.E., P.E.  
LICENSE NO: 081-005858  
EXPIRES: 11/2008

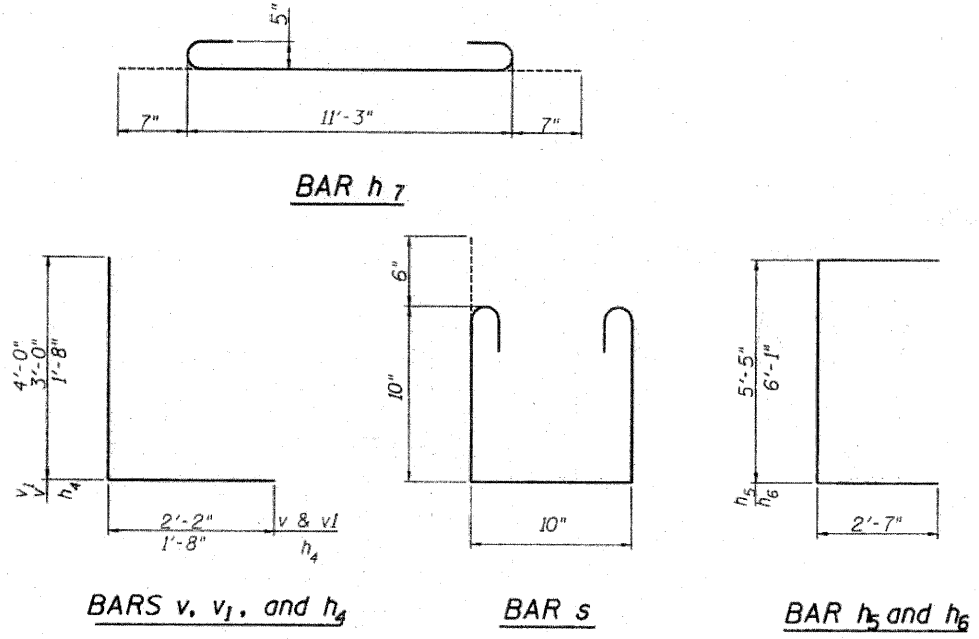
**DROP BOX NO. 1  
STATION 1201+61.08  
GRATING DETAILS**

SHEET NO. 5 10 SHEETS	F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 27
	D-92-003-03		CONTRACT NO. 64851		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

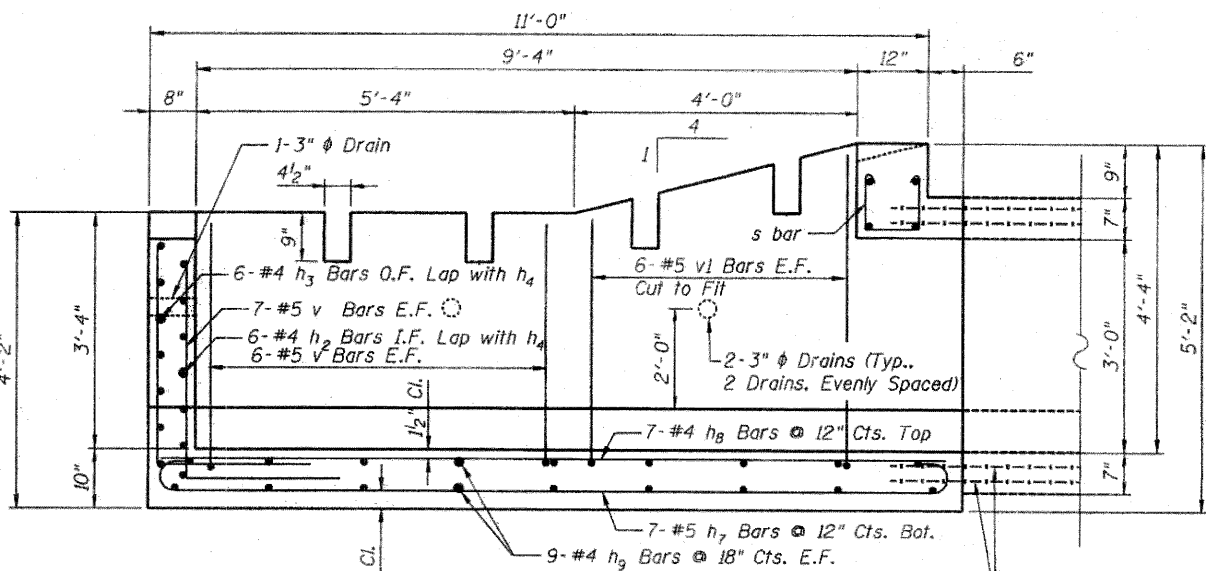


PLAN

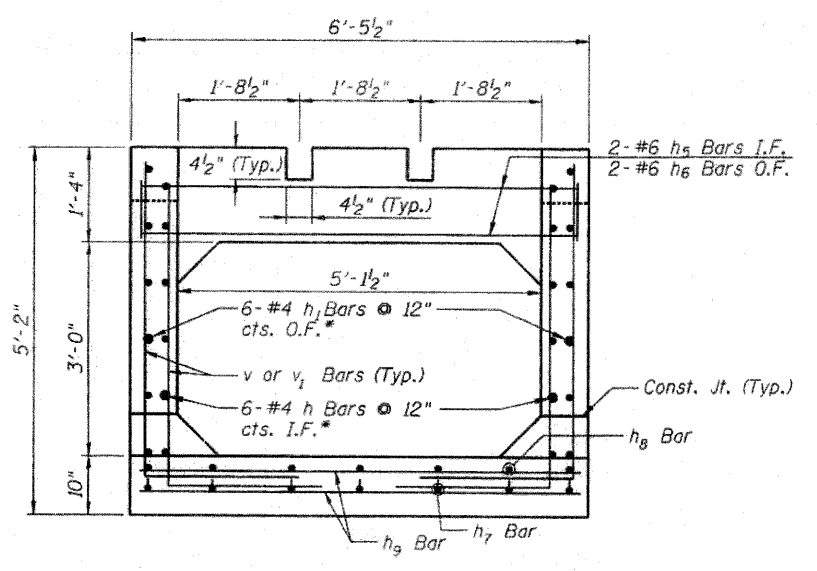


**BILL OF MATERIAL**  
(For information only)

Bar	No.	Size	Length	Shape
h	12	#4	9'-7"	—
h1	12	#4	11'-3"	—
h2	6	#4	5'-5"	—
h3	6	#4	6'-1"	—
h4	24	#4	3'-4"	—
h5	2	#6	10'-7"	—
h6	2	#6	11'-3"	—
h7	7	#5	12'-5"	—
h8	7	#4	11'-3"	—
h9	18	#4	6'-2"	—
s	7	#4	3'-6"	—
v	38	#5	5'-2"	—
v1	24	#5	6'-2"	—
Concrete Structures				Cu. Yd. 5.2
Reinforcement Bars, Epoxy Coated				Pound 930



SECTION A-A



SECTION B-B

**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified) See Special Provisions.

The contractor shall be responsible for diverting the water flow from the construction area using a method meeting the approval of the Engineer. Cost included with "Drop Box No. 1".

Drain holes shall be constructed in accordance with Article 503.11 of the Standard Specifications.

For details of galvanized steel pipe grate see sheet 5.

**DROP BOX NO. 1**  
**STATION 1201+61.08**  
**REINFORCEMENT DETAILS**

DESIGNED - JLA
CHECKED - SB
DRAWN - AJP
CHECKED - JLA

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Fax (630)969-3122

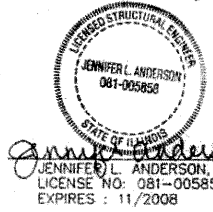
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**LEGEND**

Bot. Bottom  
E.F. Each Face  
I.F. Inside Face  
O.F. Outside Face

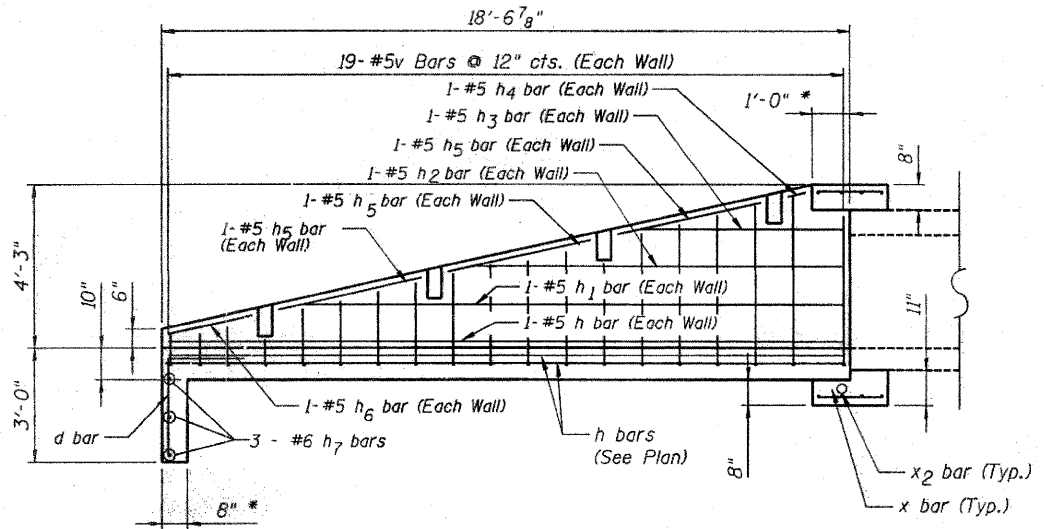
Extend Welded Wire Fabric out of Precast Culvert Section 1'-4" Lap with drop box reinforcement (Typ.)

\*Bend in field and cut to miss grate openings.

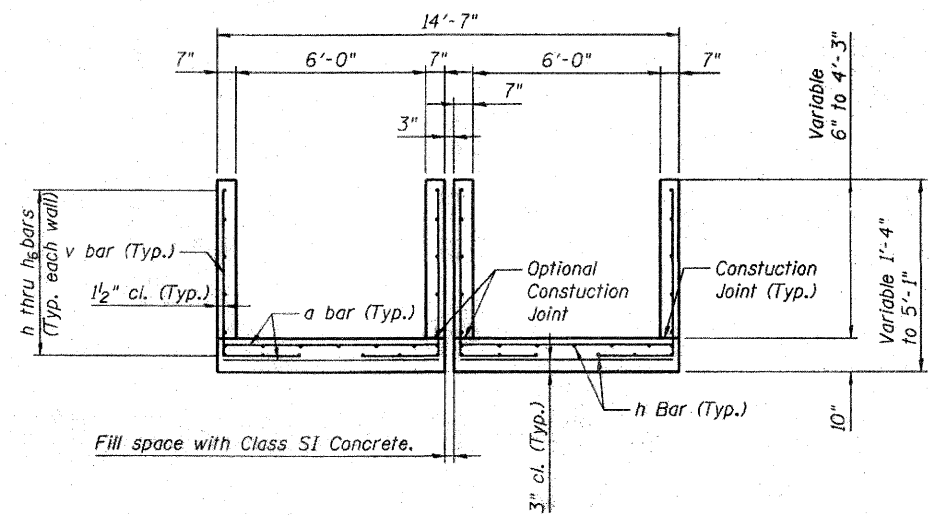


SHEET NO. 6 10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	2T	OGLE	48	28
		D-92-003-03	CONTRACT NO. 64851		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

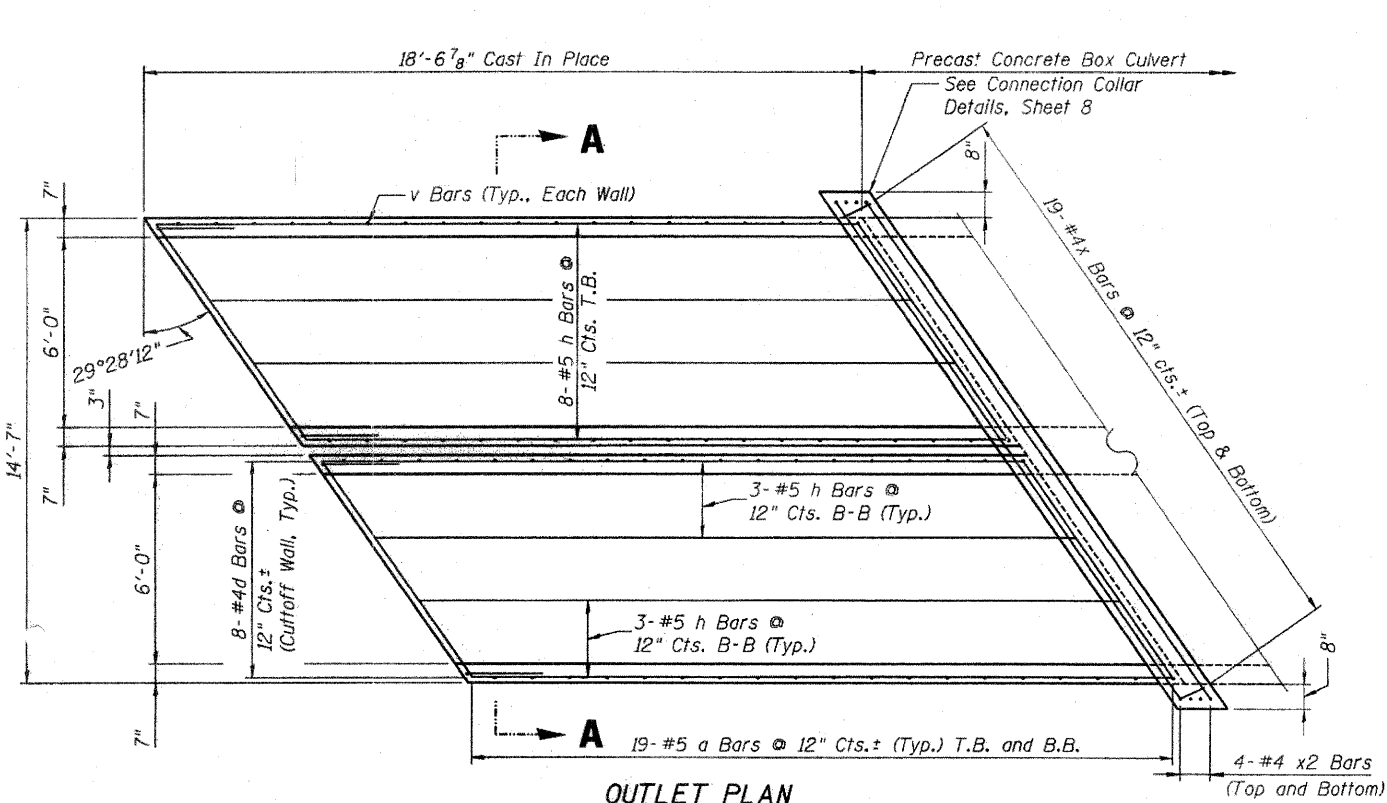
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



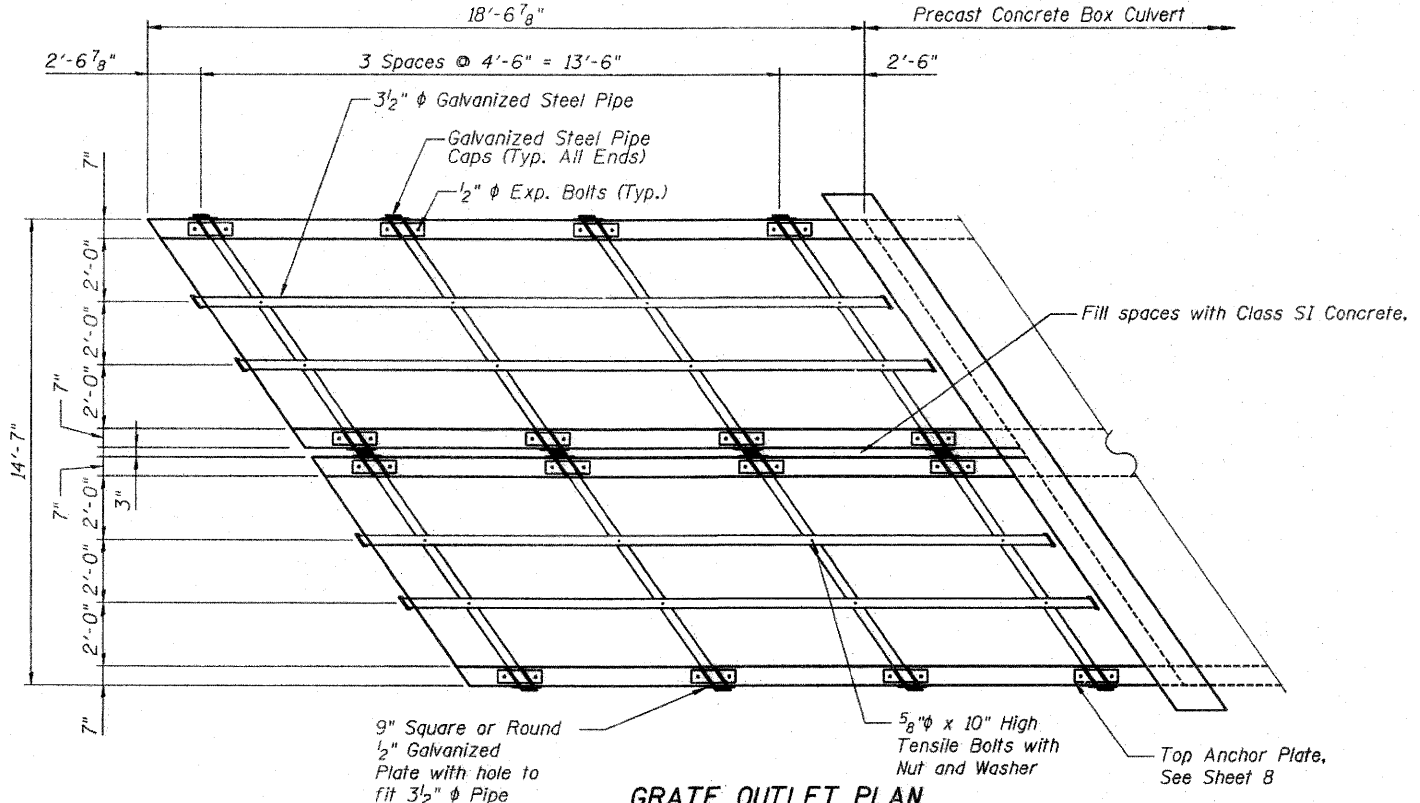
**OUTLET ELEVATION**  
(2 End Sections, This End)  
(2 Total)  
\* Measured perpendicular to CL 26



**SECTION A-A**



**OUTLET PLAN**  
(2 End Sections, This End)  
(2 Total)



**GRATE OUTLET PLAN**  
(2 End Sections, This End)  
(2 Total)

**GRATED END SECTION NO. 3**  
**STATION 1283+39.10**  
**PLAN AND DETAILS**

**LEGEND**  
T.B. = TOP OF BOTTOM SLAB  
B.B. = BOTTOM OF BOTTOM SLAB



*Jennifer Anderson* 10/10/08  
JENNIFER L. ANDERSON, S.E., P.E.  
LICENSE NO: 081-005858  
EXPIRES : 11/2008

DESIGNED - JLA
CHECKED - SB
DRAWN - AJP
CHECKED - JLA

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SHEET NO. 7 10 SHEETS	F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 29
	D-92-003-03		CONTRACT NO. 64851		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

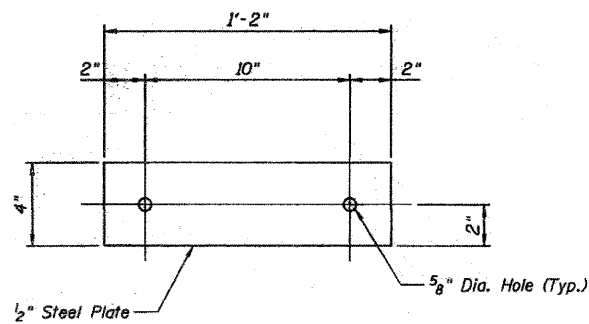
\* STEEL PIPE GRATING  
BILL OF MATERIAL

DESCRIPTION	UNIT	QTY
5/8" X 10" Galv. Steel Bolts	Each	16
3 1/2" Galv. Steel Pipe	Ø8	7'-8"
3 1/2" Galv. Steel Pipe	Ø4	18'-3"
3 1/2" Galv. Pipe Caps	Each	24
1/2" X 4" X 14" Galv. Plate	Each	16
1/4" Galv. Steel Plate (9" Nominal)	Each	16

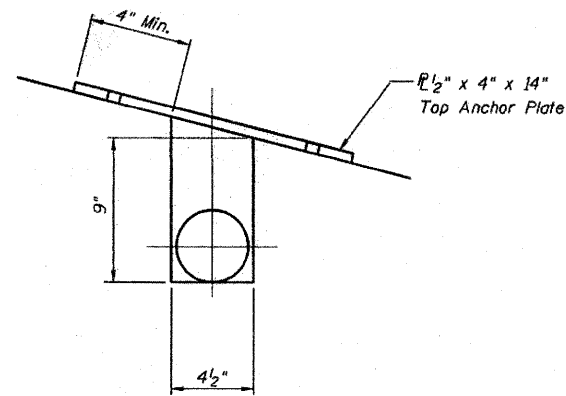
\*\* CONNECTION COLLAR  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
x	48	4	1'-9"	—
x1	8	4	5'-2"	—
x2	8	4	17'-11"	—
x3	8	4	4'-4"	—
Concrete Structures	Cu. Yd.		2.4	
Reinforcement Bars	Pound		200	

\*\* For informational purposes only. Cost to be included in the bid item "PRECAST CONCRETE BOX CULVERT 3'X6".

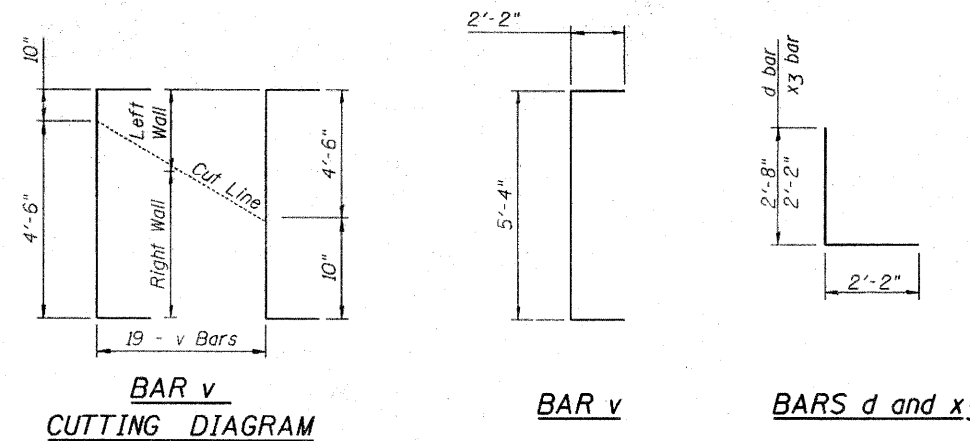


TOP ANCHOR PLATE  
(16 TOTAL)



DETAIL 'A'

\* For informational purposes only.



BAR v  
CUTTING DIAGRAM

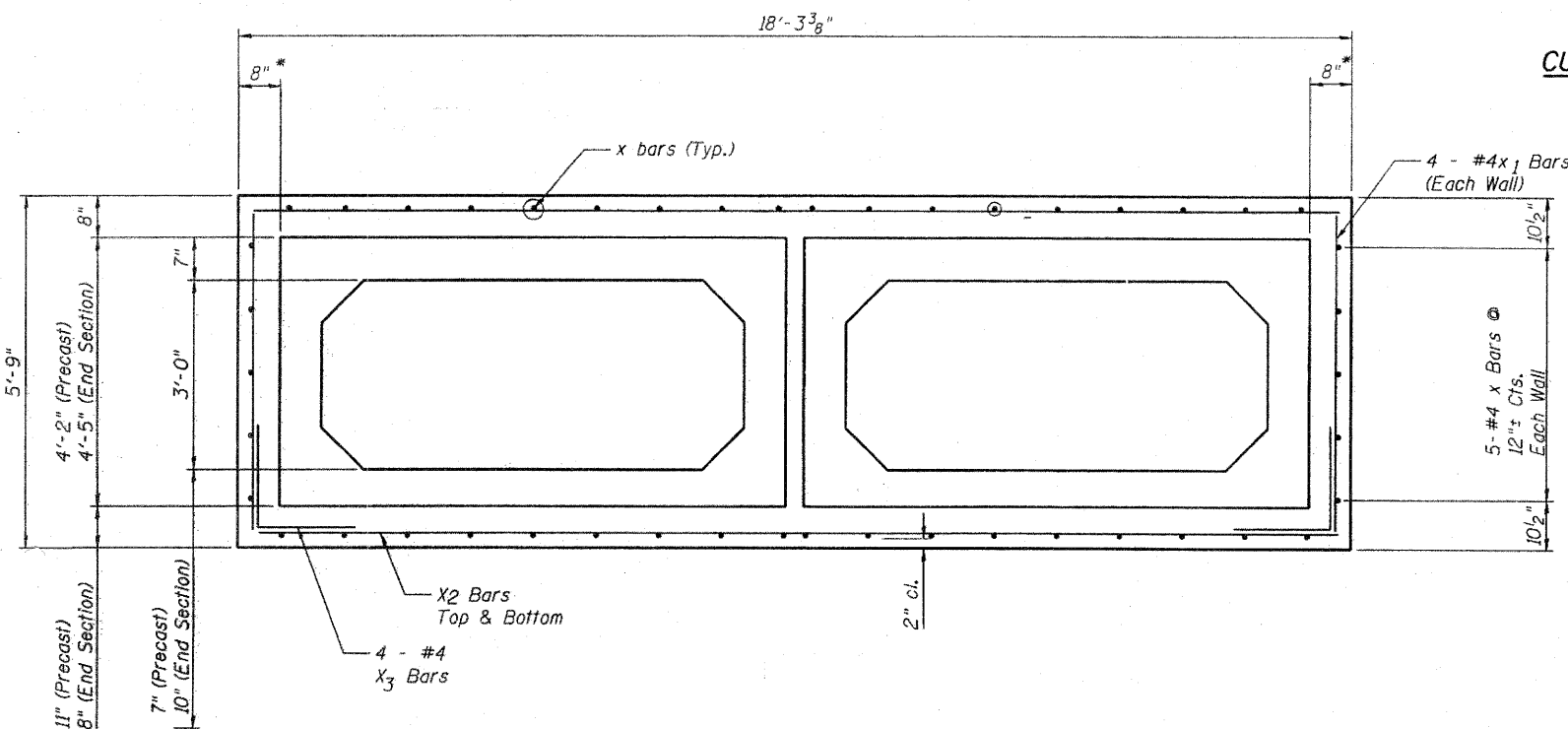
BAR v

BARS d and x3

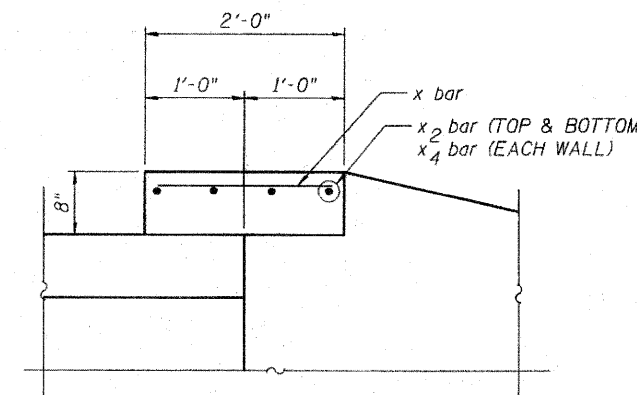
\*\*\* BOX CULVERT END SECTION NO. 3  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	76	5	8'-0"	—
d	16	4	4'-10"	—
h	32	5	18'-3"	—
h1	4	5	15'-0"	—
h2	4	5	10'-6"	—
h3	4	5	6'-0"	—
h4	4	5	1'-0"	—
h5	12	5	3'-10"	—
h6	4	5	2'-1"	—
h7	6	6	8'-0"	—
v	38	5	9'-8"	—
Concrete Structures	Cu. Yd.		14.7	
Reinforcement Bars	Pound		1940	

\*\*\* For informational purposes only.



CONNECTION COLLAR SECTION



COLLAR DETAIL

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A707 GR. 60 (IL Modified), see Special Provisions.

Steel pipes shall conform to A.S.T.M. A-53 (TYPE E OR S) Grade B, Schedule 40, and shall be galvanized to A.S.T.M. A-120.

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 1006.08 of the Standard Specifications and shall be galvanized.

The contract unit price "EACH" for Grated End Section No. 3 shall include the Expansion Bolts, Galvanized Pipes, Class SI Concrete, Bolts, Nuts, Reinforcement, Washers, and Steel Plates.

Contractor shall field verify galvanized pipe length.

GRATED END SECTION NO. 3  
STATION 1283+39.10  
DETAILS

DESIGNED	JLA
CHECKED	SB
DRAWN	AJP
CHECKED	JLA

400 South Green Street - Suite 304  
Chicago, Illinois 60607  
Phone (312)738-1522  
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Jennifer L. Anderson 01/08  
JENNIFER L. ANDERSON, S.E., P.E.  
LICENSE NO. 081-005858  
EXPIRES: 11/2008

SHEET NO. 8 10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	2T	OGLE	48	30
	D-92-003-03		CONTRACT NO. 64851		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

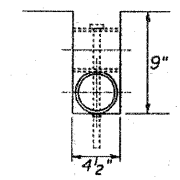
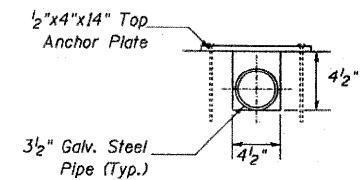
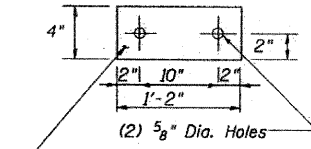
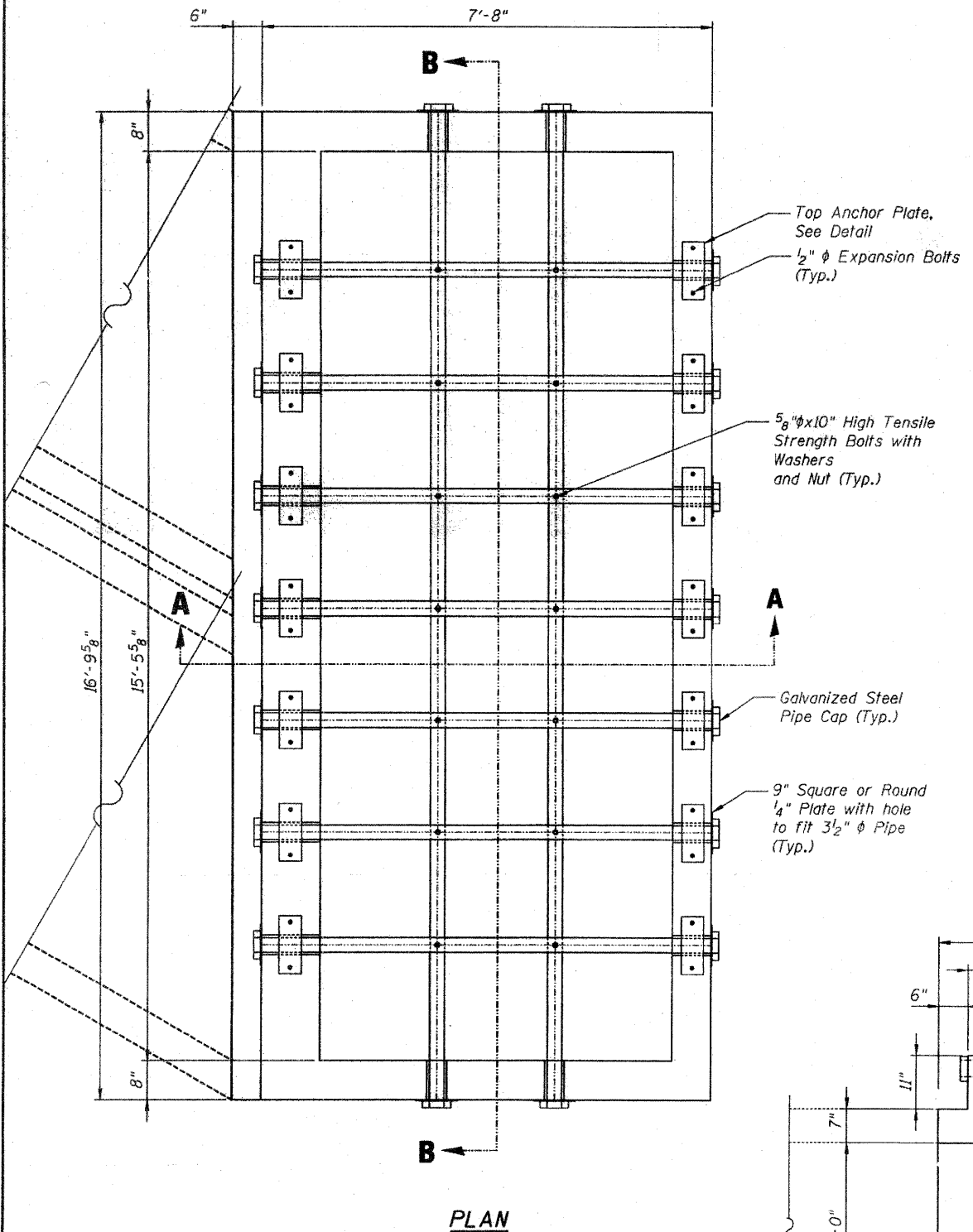
This work shall be done according to the applicable portion of 503, 508, and 542 of the Standard Specifications.

The contract unit price "each" for DROP BOX NO. 2 shall include the Expansion Bolts, Galvanized Pipe, Class SI Concrete, Reinforcement, 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

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 1006.08 of the Standard Specification and shall be galvanized.

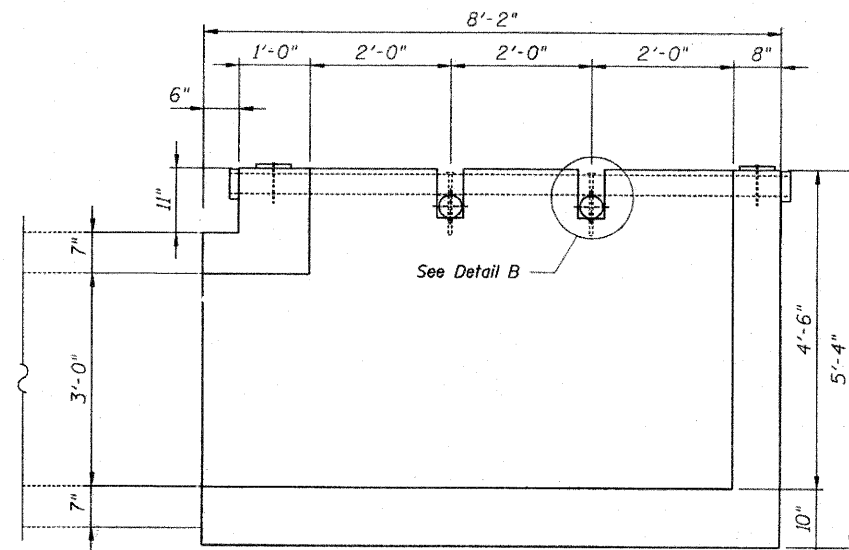
Contractor shall field verify Galvanized pipe length.



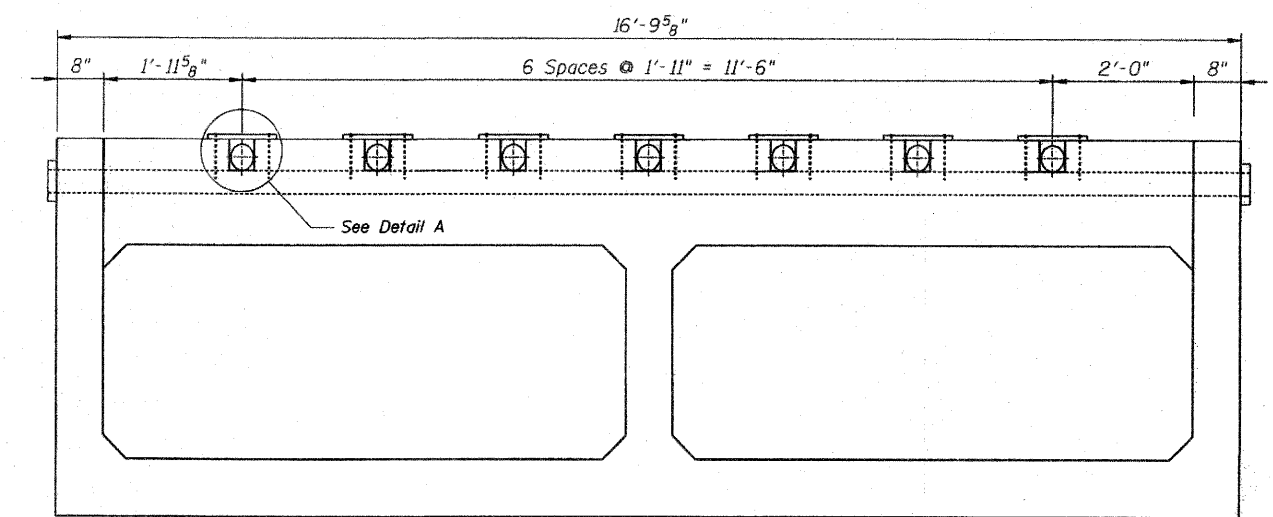
BILL OF MATERIAL

DESCRIPTION	UNIT	QTY
5/8" X 10" Galv. Steel Bolts	Each	14
3 1/2" Galv. Steel Pipe	7	8'-0"
3 1/2" Galv. Steel Pipe	2	17'-2"
3 1/2" Galv. Pipe Caps	Each	18
1/2" X 4" X 14" Galv. Plate	Each	14
1/4" Galv. Steel Plate (9" Nominal)	Each	18

PLAN



SECTION A-A



SECTION B-B

DROP BOX NO. 2  
STA. 1283+39.10  
GRATING DETAILS

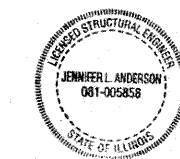
DESIGNED - JLA
CHECKED - SB
DRAWN - AJP
CHECKED - JLA

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Jennifer Anderson 10/10/08  
JENNIFER L. ANDERSON, S.E., P.E.  
LICENSE NO: 081-005858  
EXPIRES: 11/2008

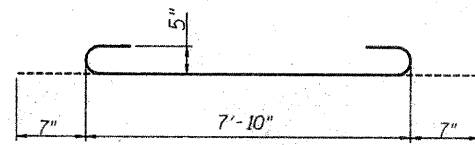
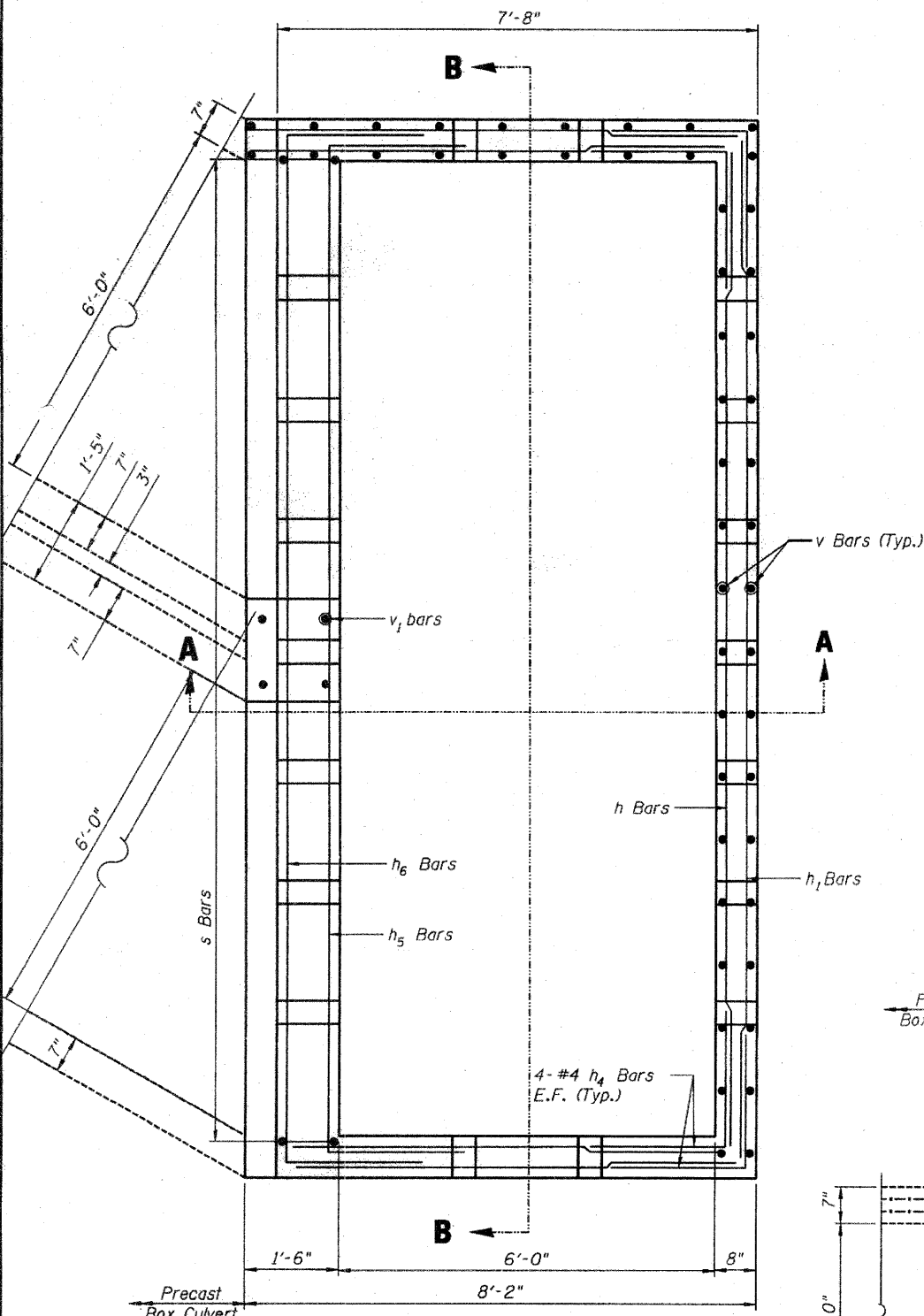
SHEET NO. 9 10 SHEETS	F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 31
	D-92-003-03		CONTRACT NO. 64851		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

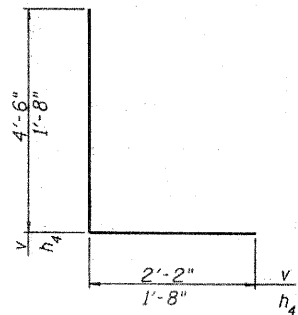
**BILL OF MATERIAL**

(For information only)

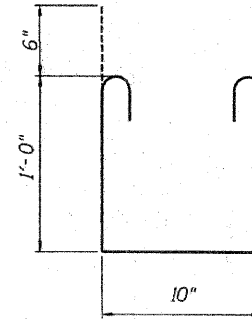
Bar	No.	Size	Length	Shape	
h	4	#4	15'-10"	—	
h <sub>1</sub>	4	#4	16'-6"	—	
h <sub>2</sub>	8	#4	7'-10"	—	
h <sub>3</sub>	8	#4	6'-4"	—	
h <sub>4</sub>	16	#4	3'-4"	—	
h <sub>5</sub>	3	#6	20'-11"	—	
h <sub>6</sub>	3	#6	21'-9"	—	
h <sub>7</sub>	18	#5	9'-0"	—	
h <sub>8</sub>	18	#4	7'-10"	—	
h <sub>9</sub>	6	#4	16'-6"	—	
s	7	#4	3'-10"	—	
v	72	#5	6'-8"	—	
v <sub>1</sub>	4	#6	4'-0"	—	
Concrete Structures				Cu. Yd.	8.6
Reinforcement Bars, Epoxy Coated				Pound	1290



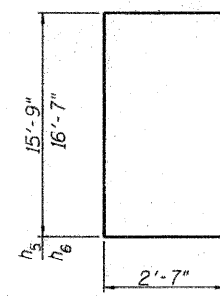
BAR h<sub>7</sub>



BARS v and h<sub>4</sub>



BAR s



BARS h<sub>5</sub> and h<sub>6</sub>

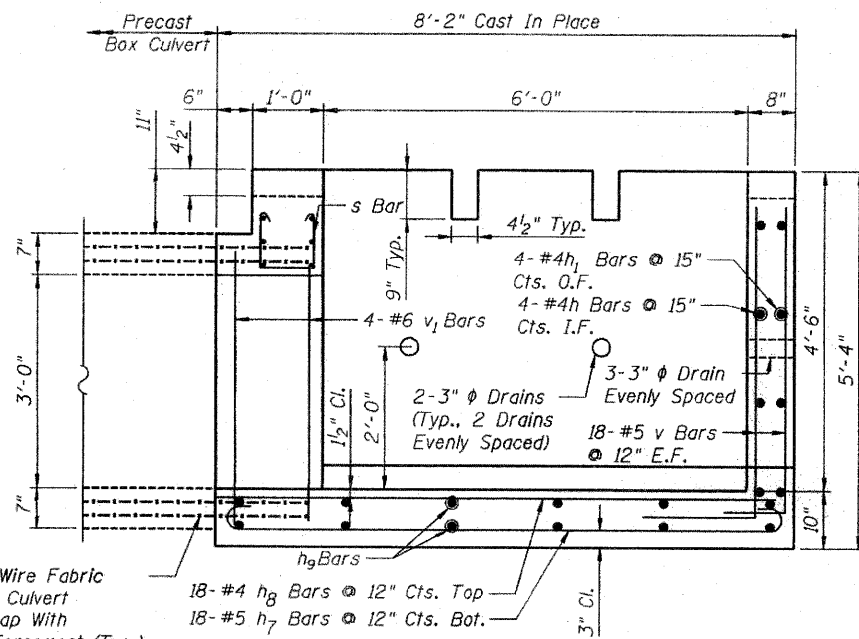
**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified) See Special Provisions.

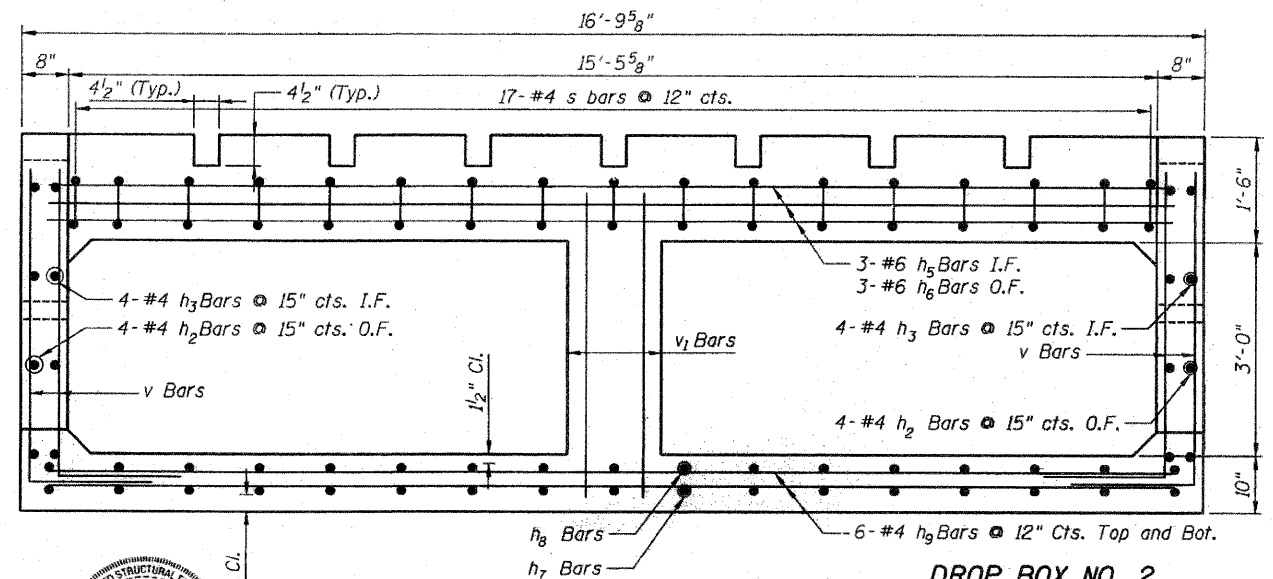
The Contractor shall be responsible for diverting the water flow from the construction area using a method meeting the approval of the Engineer. Cost included with "Drop Box No. 2".

Drain holes shall be constructed in accordance with Section 503.11.

For details of Galvanized Steel Pipe Grate, see sheet 9.



SECTION A-A



SECTION B-B

**DROP BOX NO. 2**  
**STA. 1283+39.10**  
**REINFORCEMENT DETAILS**

DESIGNED -	JLA
CHECKED -	SB
DRAWN -	AJP
CHECKED -	JLA

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Extend Welded Wire Fabric  
Out Of Precast Culvert  
Section 1'-4" Lap With  
Drop Box Reinforcement (Typ.)

**LEGEND**

Bot. Bottom  
E.F. Each Face  
I.F. Inside Face  
O.F. Outside Face



Jennifer L. Anderson 10/10/08  
JENNIFER L. ANDERSON, S.E., P.E.  
LICENSE NO: 081-005858  
EXPIRES: 11/2008

SHEET NO.10	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	2T	OGLE	48	32
10 SHEETS	D-92-003-03		CONTRACT NO. 64851		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					



# BORING LOGS



Illinois Department of Transportation  
Division of Highways  
District 2, Dixon

## SOIL BORING LOG

Page 1 of 1

Date 12/11/02

ROUTE FAP 316 DESCRIPTION P92-003-03 IL 26 box culvert, .25 m. N. of IL 72 LOGGED BY W. Garza

SECTION 2T LOCATION Forreton Twp. - SE, SEC. 13, TWP. 25N, RNG. 7E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 071-1223

Station 1173+89

BORING NO. B-1c

Station 807+49

Offset 38.00R Rt CL

Ground Surface Elev. 98.1 ft

DEPTH (ft)	BLOWS (/6")	UNIFORMITY (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UNIFORMITY (tsf)	MOISTURE (%)
				Surface Water Elev. None ft				
				Stream Bed Elev. 95.0 ft				
				Groundwater Elev.:				
				First Encounter 84.6 ft				
				Upon Completion 86.1 ft				
				After Hrs. ft				
95.60	2	0.75	37	MEDIUM black SILTY LOAM	76.10	2		
		P				6	1.2	
						8	B	
94.10	4	1.9	26	STIFF dark brown SILTY LOAM with ORGANICS	74.10	10		
	6	B				14		
						12		
91.60	2	0.7	32	MEDIUM grayish tan SILTY LOAM TILL	71.60	12		
	3	B				9		
	4					16		
89.10	2	2.1	22	VERY STIFF gray SILT	69.10	3		
	3	B				5		
	6					7		
86.60	2	0.6	19	MEDIUM tan SILTY CLAY TILL	66.60	100/15		
	3	B				PEN		
	4							
84.10	2	1.2	17	STIFF tan SILTY CLAY TILL				
	2	B						
	5							
81.60	2	1.7	38	STIFF tan and gray CLAY TILL with SAND lens				
	3	S						
	4							
79.10	2	1.0	42	MEDIUM tan SILTY CLAY TILL, bottom 2" dirty fine SAND				
	4	B						
	10							

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  
District 2, Dixon

## SOIL BORING LOG

Page 1 of 1

Date 12/12/02

ROUTE FAP 316 DESCRIPTION P92-003-03 IL 26 box culvert, .25 m. N. of Route 72 LOGGED BY W. Garza

SECTION 2T LOCATION Forreton Twp. - SE, SEC. 13, TWP. 25N, RNG. 7E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 071-1223

Station 1173+89

BORING NO. B-2c

Station 807+75


Offset 34.50R Rt CL

Ground Surface Elev. 96.5 ft

DEPTH (ft)	BLOWS (/6")	UNIFORMITY (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UNIFORMITY (tsf)	MOISTURE (%)
				Surface Water Elev. None ft				
				Stream Bed Elev. 95.0 ft				
				Groundwater Elev.:				
				First Encounter 79.0 ft				
				Upon Completion 81.0 ft				
				After Hrs. ft				
94.50	4	1.5	28	STIFF dark brown SILTY LOAM	75.50	18		
	4	P				20		
	6					22		
93.00	2	0.7	27	MEDIUM gray SILTY LOAM with ORGANICS				
	3	B						
	5							
90.50	2	0.7	27	MEDIUM gray SILTY LOAM with ORGANICS				
	3	B						
	4							
88.00	1	0.5	19	SOFT tan SILTY CLAY TILL				
	3	B						
	3							
85.50	2	0.75	25	MEDIUM tan SILT with LIMESTONE fragments in bottom				
	4	P						
	6							
83.00	2	1.9	49	VERY STIFF reddish brown CLAY TILL with 11% ORGANICS				
	4	B						
	15							
80.00	3			MEDIUM tan dirty fine SAND				
	9							
	14							

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)

# BORING LOGS



**Illinois Department of Transportation**  
Division of Highways  
District 2, Dixon

## SOIL BORING LOG

Page 1 of 1  
Date 12/11/02

ROUTE FAP 316 DESCRIPTION P92-003-03 IL 26 box culvert, 0.1 m. S. of Coffman Road LOGGED BY W. Garza

SECTION 2T LOCATION Forreston Twp. - NE, SEC. 13, TWP. 25N, RNG. 7E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 071-1224  
Station 1201+61


BORING NO. B-1b  
Station 835+22  
Offset 12.00ft Lt CL  
Ground Surface Elev. 99.6 ft

Description	Depth (ft)	D	B	U	M	Soil Properties	
						(ft)	(%)
8" Asphalt							
MEDIUM dark gray LOAM				1.0	25		
	97.10						
MEDIUM dark brown SILTY LOAM		4		1.0	28		
	95.60						
STIFF brown SILTY LOAM		3		1.1	27		
	93.10						
STIFF brown SILTY LOAM		3		1.6	26		
	90.10						
VERY LOOSE brown dirty SAND with little GRAVEL		3					
	88.10						
MEDIUM tan CLAY with weathered LIMESTONE		6		1.0	20		
	85.60						
VERY DENSE tan dirty fine SAND with weathered LIMESTONE		3					
	82.60						
VERY DENSE tan weathered LIMESTONE, drilled down 8". Auger Refusal		100/1.8"					
	80.60						
End of Boring							
	-20						

Surface Water Elev. None ft  
Stream Bed Elev. 93 ft

Groundwater Elev.:  
First Encounter None ft  
Upon Completion None ft  
After Hrs.        ft

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  
District 2, Dixon

## SOIL BORING LOG

Page 1 of 1  
Date 12/11/02

ROUTE FAP 316 DESCRIPTION P92-003-03 IL 26 box culvert, 0.1 m. S. of Coffman Road LOGGED BY W. Garza

SECTION 2T LOCATION Forreston Twp. - NE, SEC. 13, TWP. 25N, RNG. 7E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 071-1224  
Station 1201+61

BORING NO. B-2b  
Station 835+04  
Offset 28.70ft Rt CL  
Ground Surface Elev. 93.0 ft


Description	Depth (ft)	D	B	U	M	Soil Properties	
						(ft)	(%)
4" frost				1.1	27		
MEDIUM brown SILTY LOAM							
	90.50						
STIFF tan SILTY LOAM		5		1.5	25		
	89.00						
MEDIUM tan SILTY LOAM, bottom 8" dirty SAND		2		0.7	24		
	86.50						
STIFF tan SILTY CLAY TILL		3		1.2	26		
	83.50						
VERY DENSE grayish white weathered LIMESTONE		80					
	81.50						
VERY DENSE tan weathered LIMESTONE		100/2"					
	80.50						
End of Boring							
	-15						
	-20						

Surface Water Elev. None ft  
Stream Bed Elev. 93.0 ft

Groundwater Elev.:  
First Encounter None ft  
Upon Completion None ft  
After Hrs.        ft

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)

# BORING LOGS



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## SOIL BORING LOG

Page 1 of 1  
Date 12/6/02

ROUTE FAP 316 DESCRIPTION P92-003-03 IL 26 box culvert, 6.4 m. N. of Forreston LOGGED BY C. Jenkins

SECTION 2T LOCATION Forreston Twp. - SE, SEC. 1, TWP. 25N, RNG. 7E


COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 071-1225  
Station 1283+39

BORING NO. B-1a  
Station 917+46  
Offset 13.00ft Rt CL  
Ground Surface Elev. 99.6 ft

DEPTH H S	B L O W S	U C S Qu	M O I S T	Soil Description				SPT Data							
				ft	(/6")	(tsf)	(%)	ft	(/6")	(tsf)	(%)				
				MEDIUM brown SILTY LOAM				2	5	1.2	18				
		0.8 P	18	STIFF tan SILTY LOAM				7	7	B					
97.10	5			STIFF black SILTY LOAM				2	4	2.4	23				
95.60	4	1.4 B	23	VERY STIFF tan SILT				8	8	S					
	6			STIFF black SILTY LOAM				6	11	2.6	21				
93.10	3	1.3 P	27	VERY STIFF tan SILTY CLAY TILL with a SAND & GRAVEL lens				5	8	1.5	17				
	4			Same as above				12	12	P					
90.60	5	1.9 P	27	STIFF tan SILTY LOAM with LIMESTONE fragments				12	23						
	7			STIFF brown SILTY CLAY				30	30						
88.10	3	1.1 B	26	VERY DENSE tan weathered LIMESTONE				100/8							
	5			STIFF brown SILTY CLAY with CHERT				PEN							
85.60	3	1.2 P	17	VERY DENSE tan weathered LIMESTONE											
	5			SOFT tan SILTY LOAM TILL											
83.10	2	0.4 B	23	MEDIUM tan SILTY LOAM TILL											
	3														
80.60	1	0.7 P	18												
	2														
	3														

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  
District 2, Dixon

## SOIL BORING LOG

Page 1 of 1  
Date 12/10/02

ROUTE FAP 316 DESCRIPTION P92-003-03 IL 26 box culvert, 6.4 m. N. of Forreston LOGGED BY W. Garza

SECTION 2T LOCATION Forreston Twp. - SE, SEC. 1, TWP. 25N, RNG. 7E

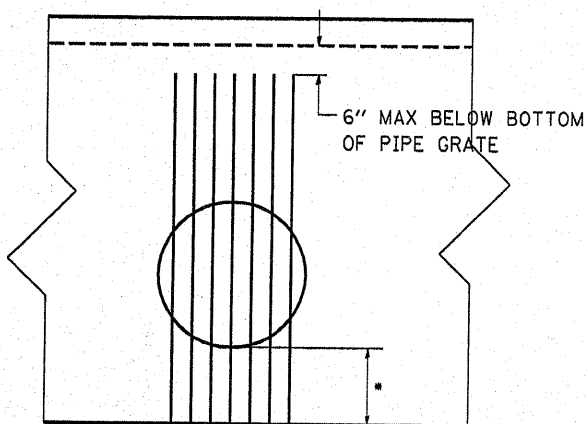
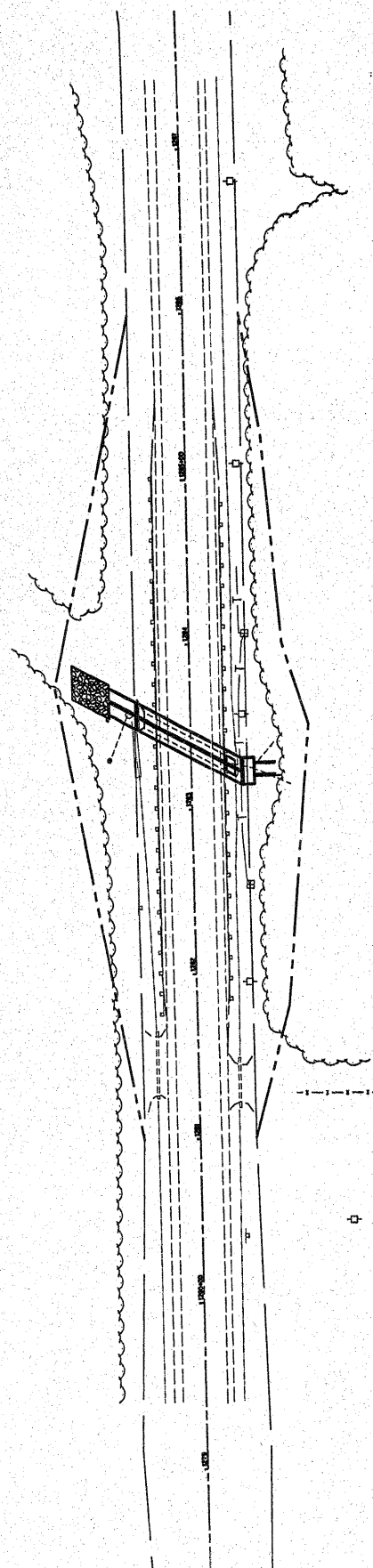
COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 071-1225  
Station 1283+39

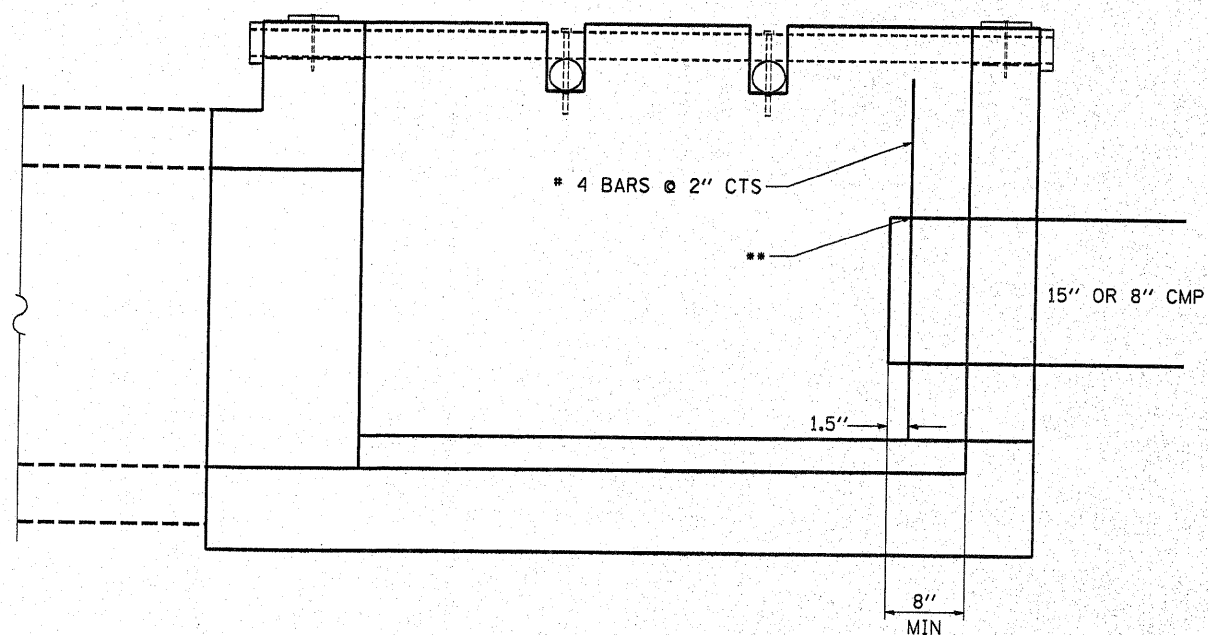
BORING NO. B-2a  
Station 918+00  
Offset 38.60ft Lt CL  
Ground Surface Elev. 93.0 ft

DEPTH H S	B L O W S	U C S Qu	M O I S T	Soil Description				SPT Data							
				ft	(/6")	(tsf)	(%)	ft	(/6")	(tsf)	(%)				
				MEDIUM brown SILTY LOAM				2	5	1.0	22				
				STIFF gray SILTY LOAM TILL				4	5	2.0	27				
91.50	4			MEDIUM tan SILTY LOAM with weathered LIMESTONE				6	5	1.0	14				
90.00	5			STIFF dark gray SILTY CLAY TILL				3	8	2.0	12				
	6			STIFF tan SILTY LOAM with weathered LIMESTONE				26	11	P					
87.50	4	1.25 P	24	DENSE tan weathered LIMESTONE				19	17						
	5			MEDIUM dark gray SILTY CLAY TILL				33	33						
85.00	3	1.0 P	26	VERY SOFT tan SILTY LOAM TILL, hard drilling				13	23	4.8	17				
	6			SOFT tan SILTY LOAM TILL				77/4		S					
82.50	2	0.25 P	21	VERY DENSE light gray CLAY				PEN							
	3			End of Boring											
80.00	2	0.5 B	19												
	4			MEDIUM tan SILTY CLAY											
77.50	1	0.9 B	23	STIFF tan SILT											
	2														
74.50	3	1.2 B	24	LOOSE tan weathered LIMESTONE											
	4														
	4														

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)



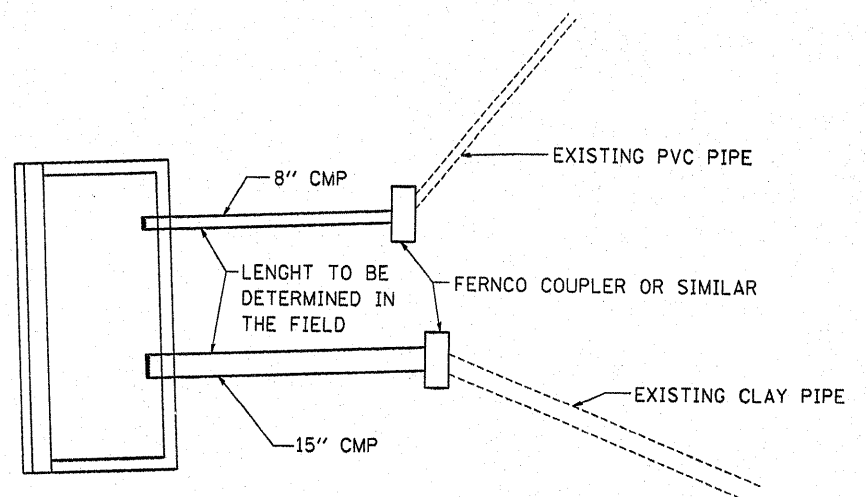
**END VIEW**



**SIDE VIEW**

▪ ELEVATION TO BE DETERMINED IN THE FIELD AND VERIFIED BY ENGINEER

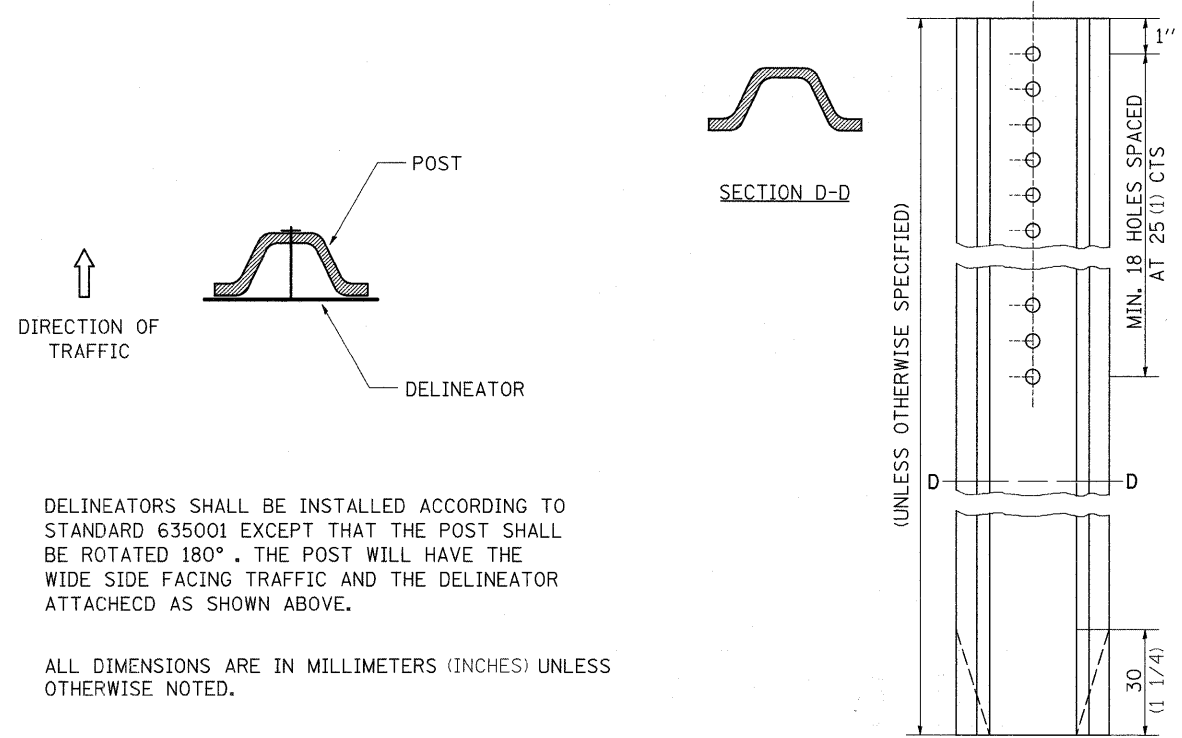
\*\* HOLES CUT OR DRILLED SLIGHTLY LARGER THAN # 4 BARS TO ALLOW FOR REMOVAL



**TOP VIEW**

FILE NAME =	USER NAME = jordanhd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RODENT PROTECTION</b>			F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwid\jordanhd\dms34801\vol8\303apl.dgn	PLLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -		SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	316	2T	OGLE	48	35A
	PLLOT DATE = Mon Mar 30 08:24:30 2009	CHECKED -	REVISED -					CONTRACT NO. 64851				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

# DELINEATOR AND POST ORIENTATION



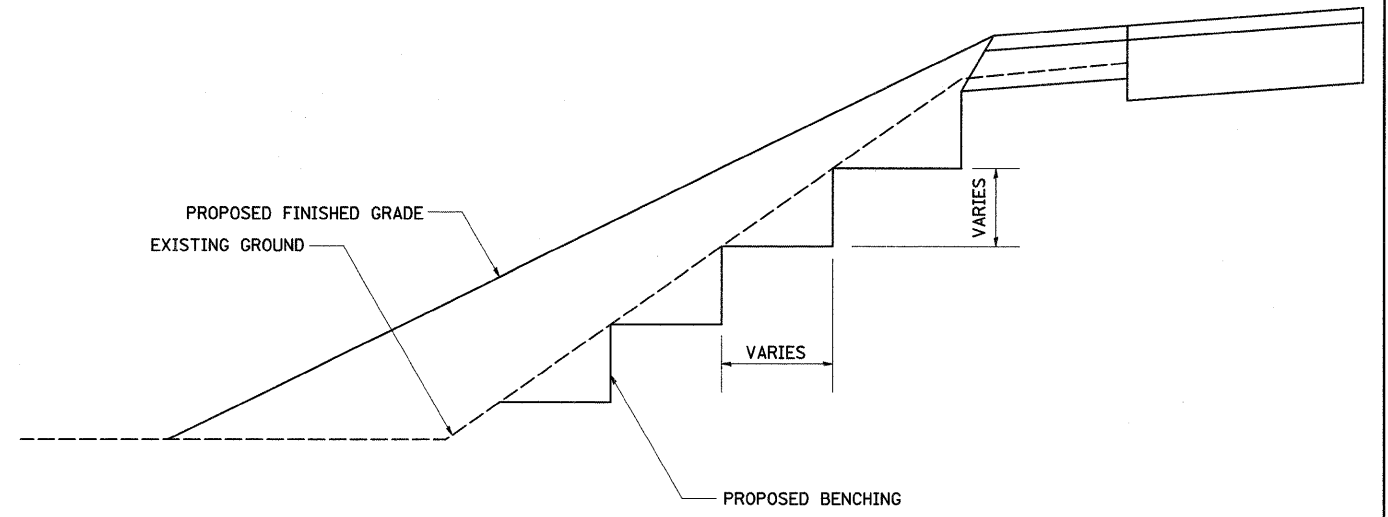
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

REVISED - 11-01-07

DELINEATOR AND POST ORIENTATION 37.4

# TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

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.

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

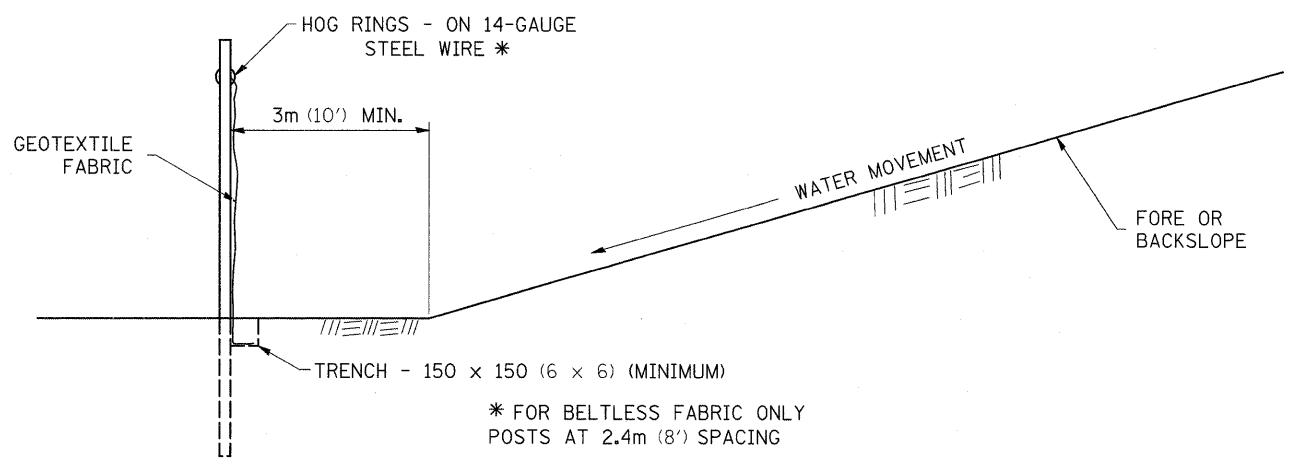
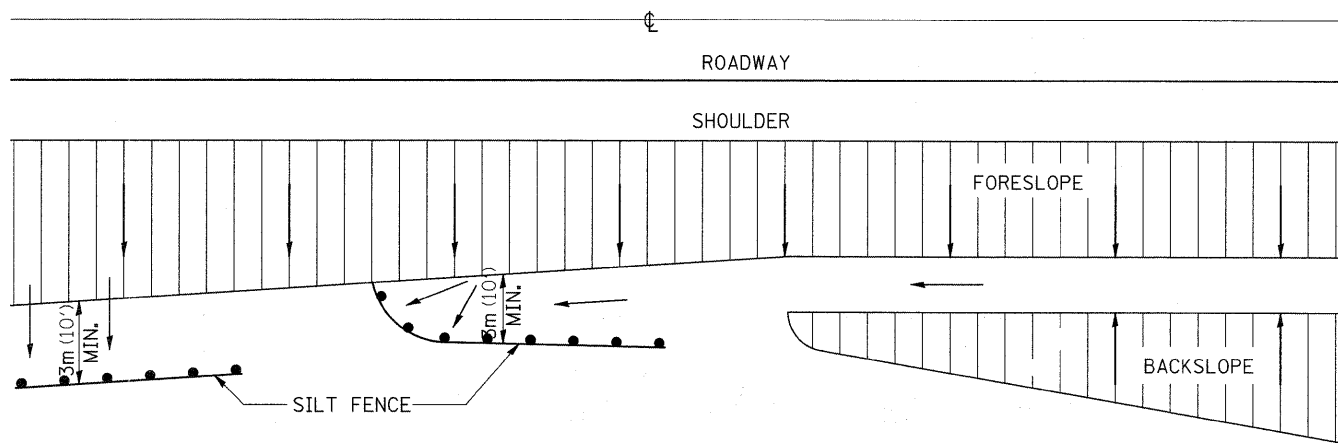
REVISED - 11-01-07

LETTERING FOR NAME PLATE 89.4

REVISED -	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		316	2T	OGLE	48	36
REVISED -		CONTRACT NO. 64851				
REVISED -		SCALE: 50.0000' / IN	SHEET NO.	OF SHEETS	STA.	TO STA.

PLOT DATE = Wed Mar 11 10:23:35 2009

# EROSION CONTROL DETAILS FOR SILT FENCE

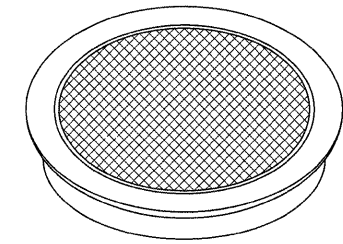


DETAILS OF SILT FENCE

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

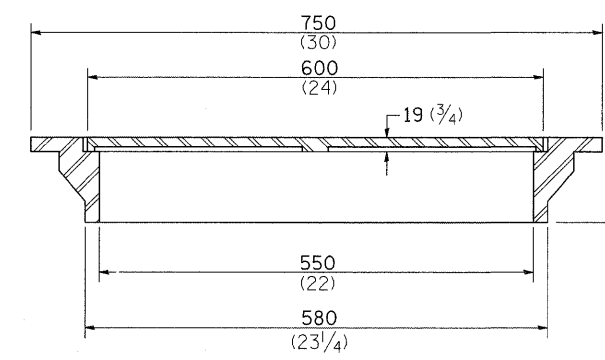
REVISED - 10-22-01

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

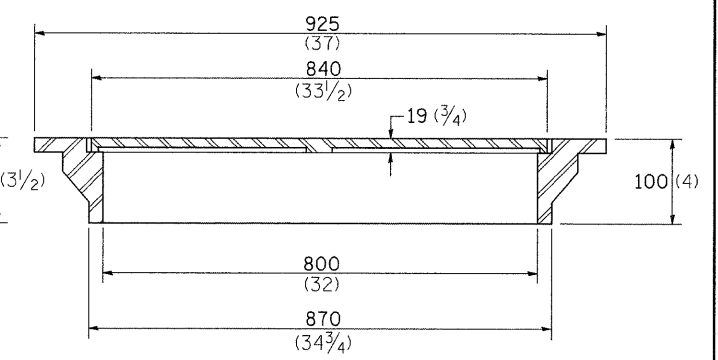


FRAME & LID FOR 600 (24) VAULT

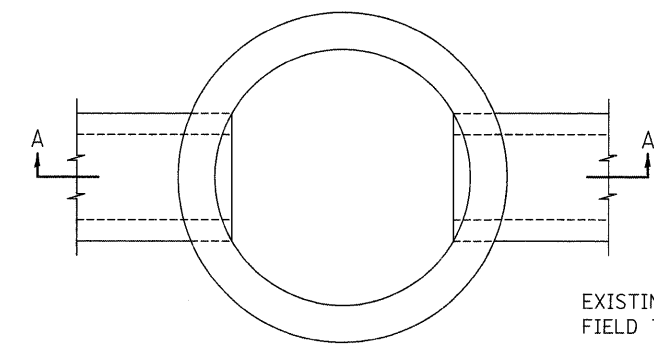
FRAME & LID FOR 900 (36) VAULT



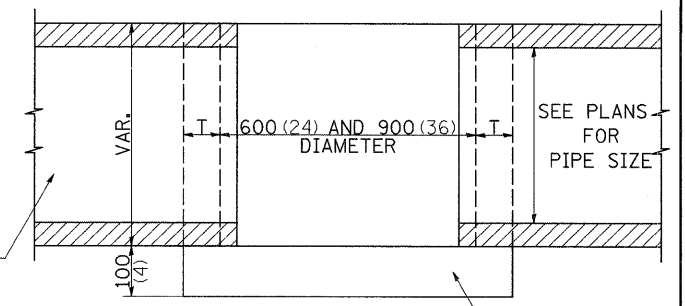
TOTAL WEIGHT: 66 Kg (146 lbs)



TOTAL WEIGHT: 127 Kg (280 lbs)



PLAN

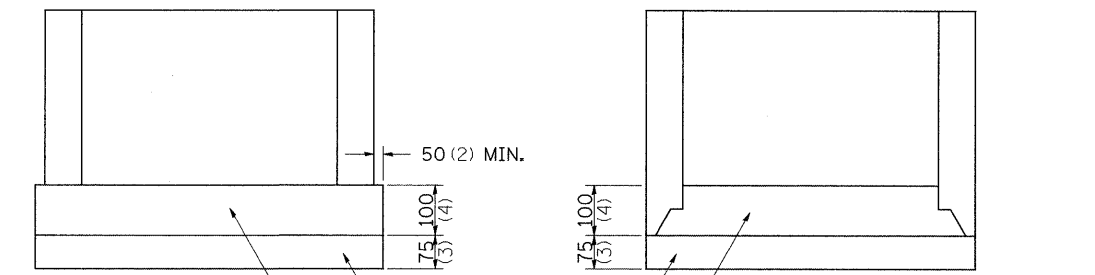


CAST-IN-PLACE CONCRETE SECTION A-A

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.

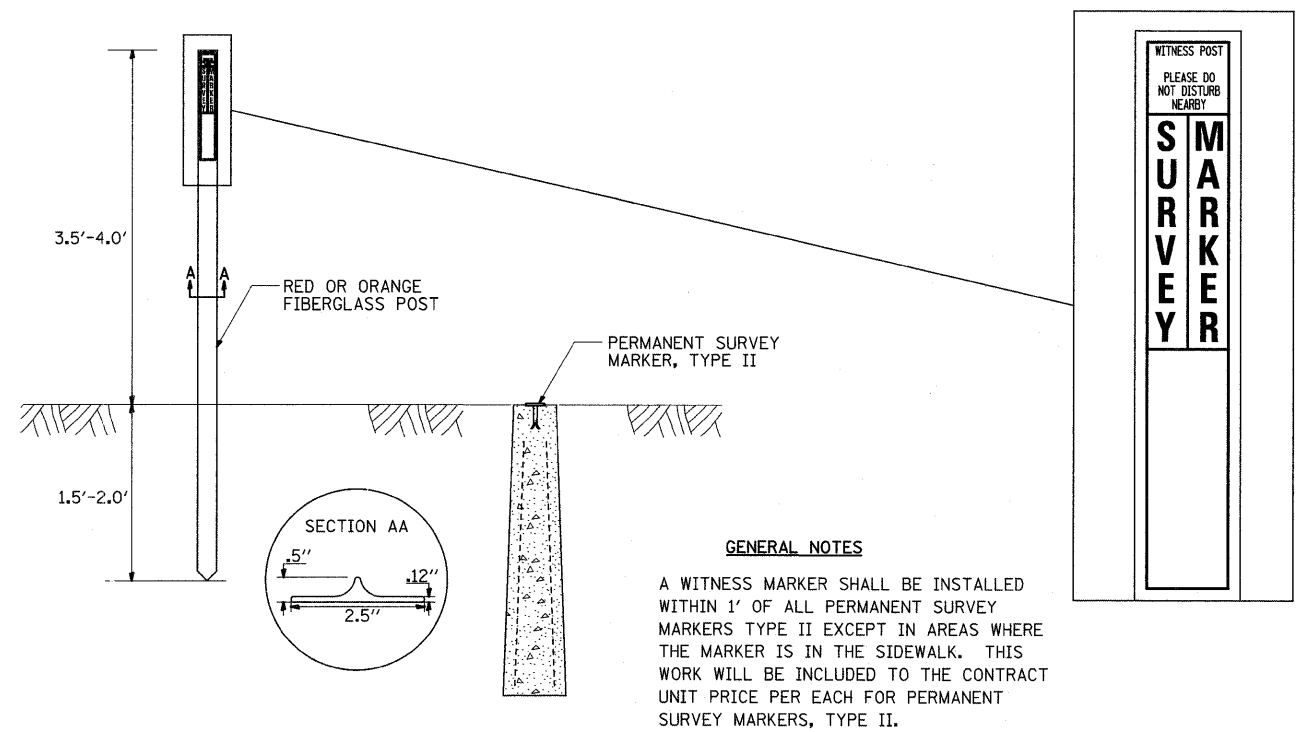


PRECAST REINFORCED CONCRETE SLAB SAND CUSHION PREFABRICATED CONCRETE SLAB, WHEN THE PRECAST REINFORCED CONCRETE SECTION ALTERNATE IS USED.

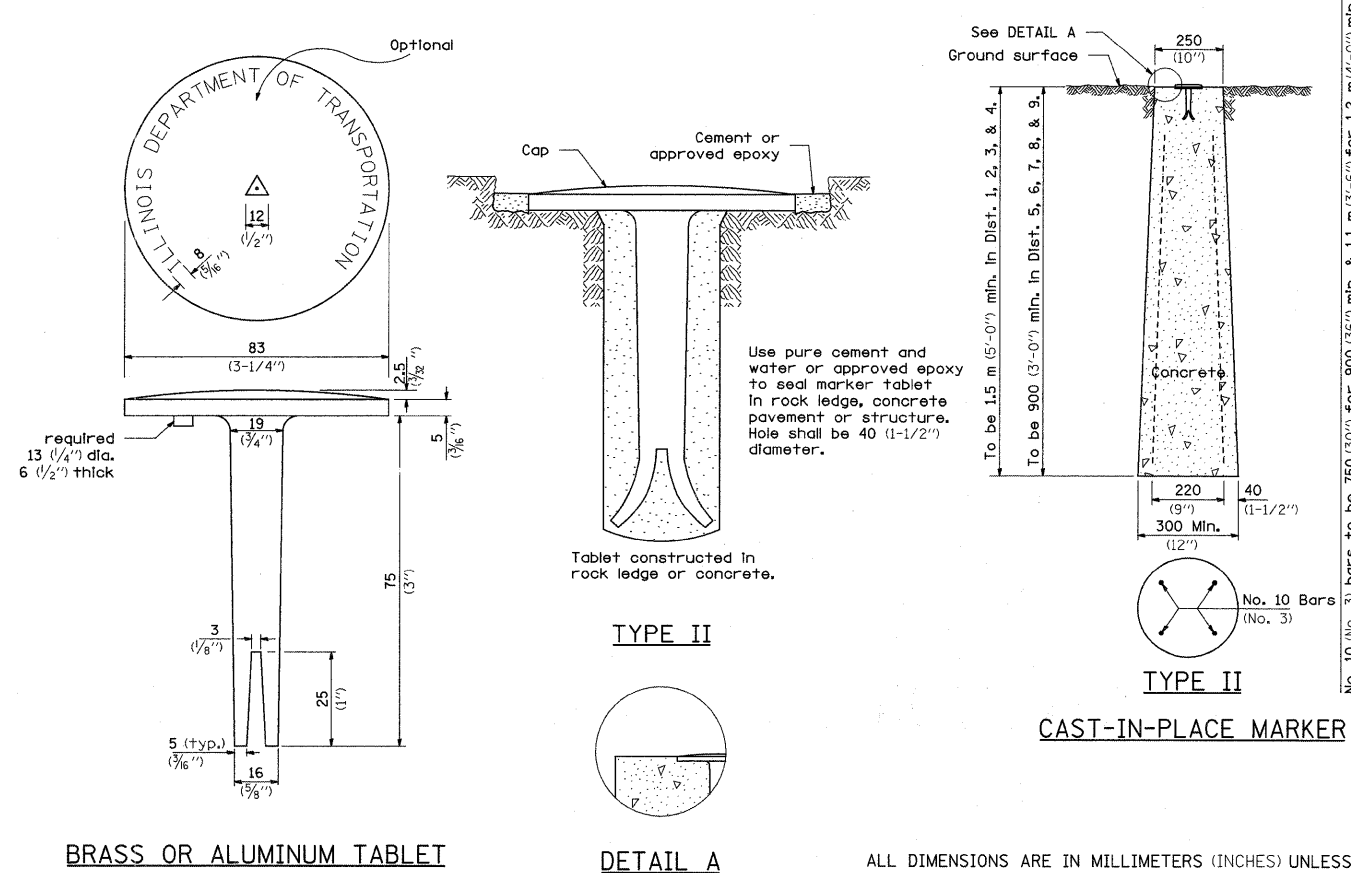
ALTERNATE METHODS

REVISED - 5-03-94	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		316	2T	OGLE	48	37
REVISED -		CONTRACT NO. 64851				
REVISED -		SCALE: 50.0000' / IN	SHEET NO.	OF SHEETS	STA.	TO STA.

# WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



# PERMANENT SURVEY MARKERS, TYPE II



No. 10 (No. 3) bars to be 750 (30") for 900 (36") min. & 1.1 m (3'-6") for 1.2 m (4'-0") min.

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

REVISED - 10-21-08

REVISED -  
REVISED -  
REVISED -  
REVISED -

REGION 2 / DISTRICT 2 STANDARD

SCALE: 50,0000' / IN SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	2T	OGLE	48	38
CONTRACT NO. 64851				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

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 3 CULVERTS ON IL RTE 26 NORTH OF FREEPORT

**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) 2.00 ACRES  
 PROPOSED R.O.W (TOTAL PARCEL AREA) 1.48 ACRES  
 DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 1.29 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**

ARE FROM EXISTING DRAINAGE DITCHES LOCATED ON THE LEFT AND RIGHT OF THE BOX CULVERTS SHOWN IN THE CONTRACT PLANS ALONG IL RTE 26

**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**

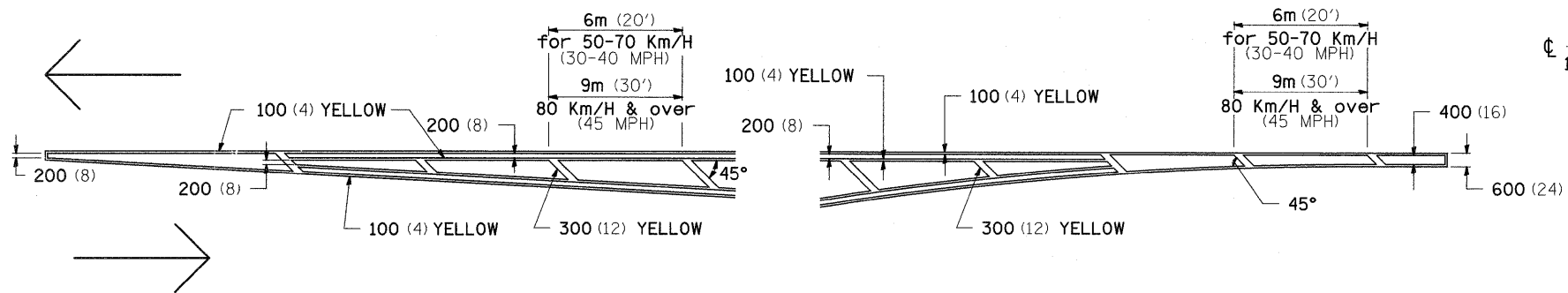
TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND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

FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED - 5-12-04	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cd\pwork\PWIDOT\G0FFJL\dms34801\d00363apl.dgn		DRAWN -	REVISED -			316	2T	OGLE	48	39	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64851					
PLOT DATE = Wed Mar 11 10:23:37 2009		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

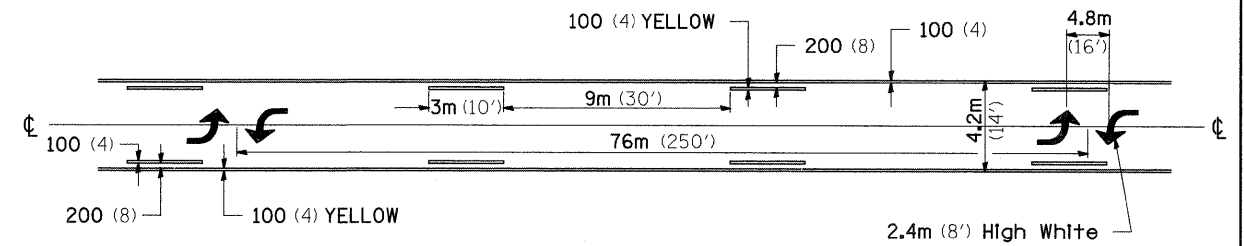


# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

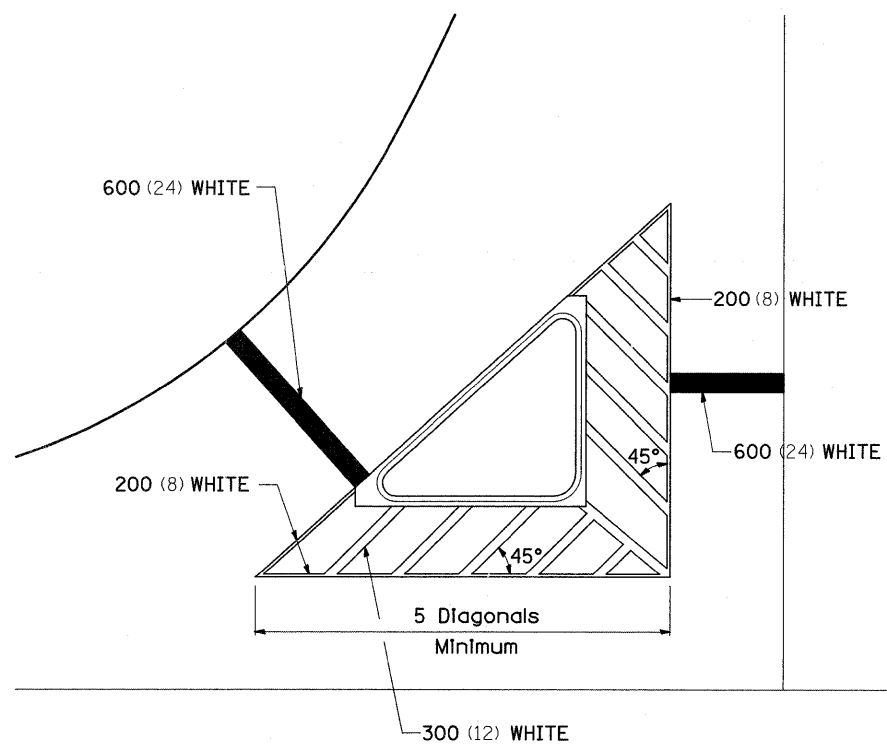


## MEDIAN PAVEMENT MARKING

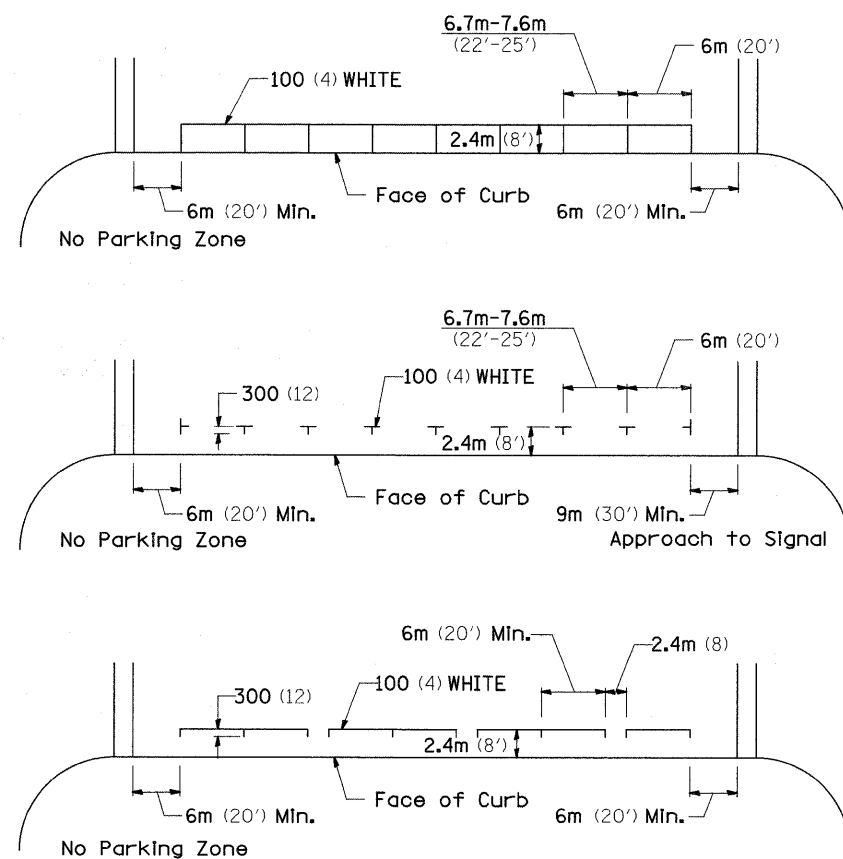


•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH

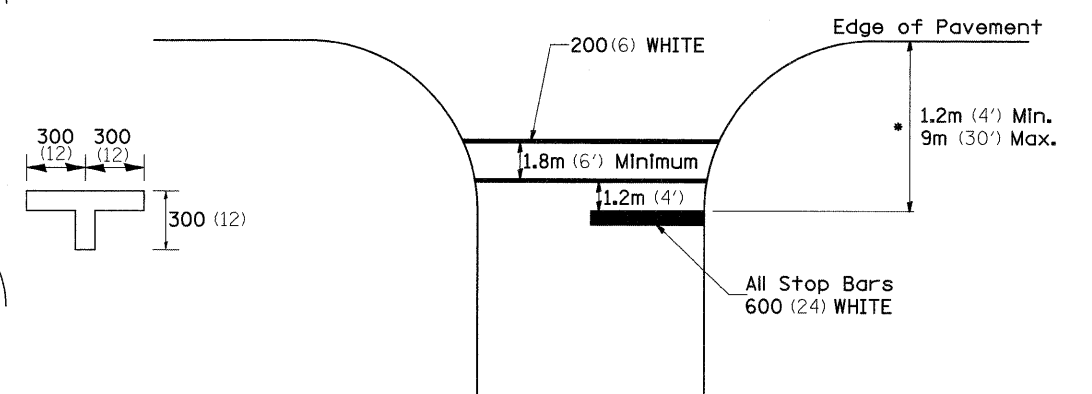


## TYPICAL PARKING SPACING



## STANDARD CROSSWALK MARKING

See Schedules for Locations

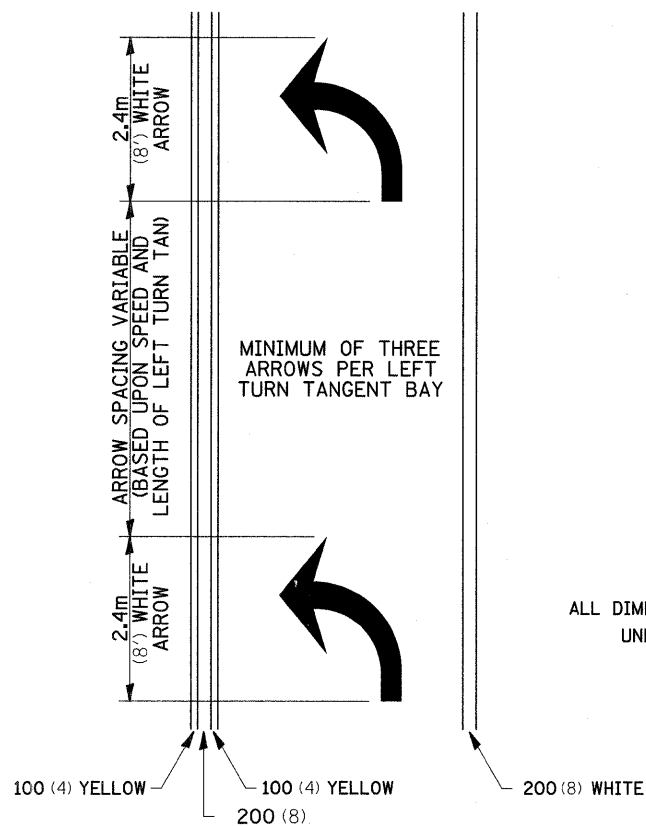


\* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED - 10-21-08	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct\pw_work\FWIDOT\GOFFJL\dms34801\d00383apl.dgn		DRAWN -	REVISED -			316	2T	OGLE	48	40	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64851					
PLOT DATE = Wed Mar 11 10:23:38 2009		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: SHEET NO. OF SHEETS STA. TO STA.											

# TYPICAL PAVEMENT MARKINGS

## ARROW LAYOUT

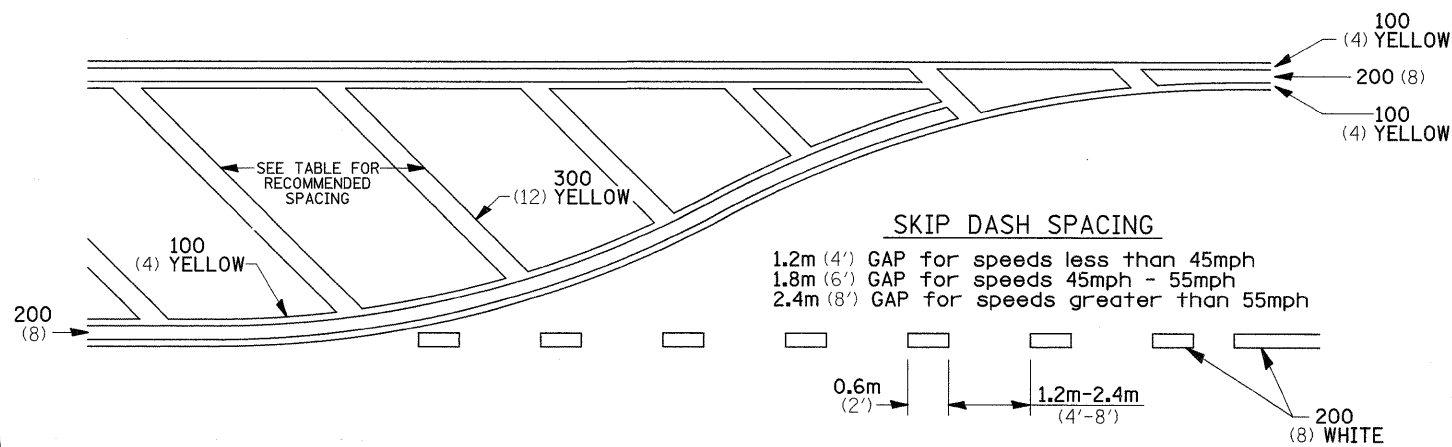


- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

12.2m  
6 at (40') O.C.  
APPROACH SIDE ONLY

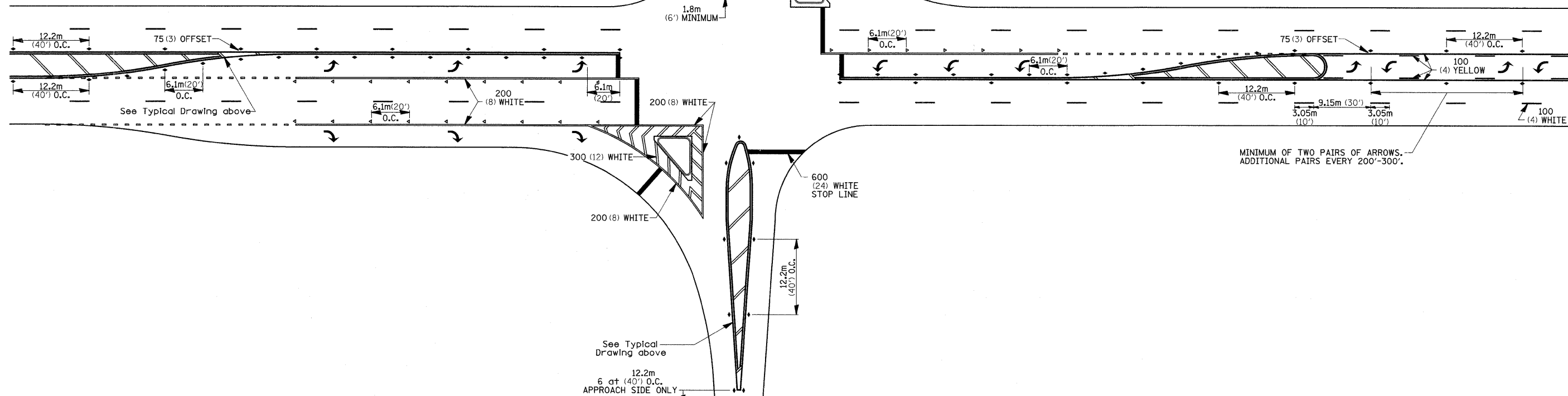
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



## RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

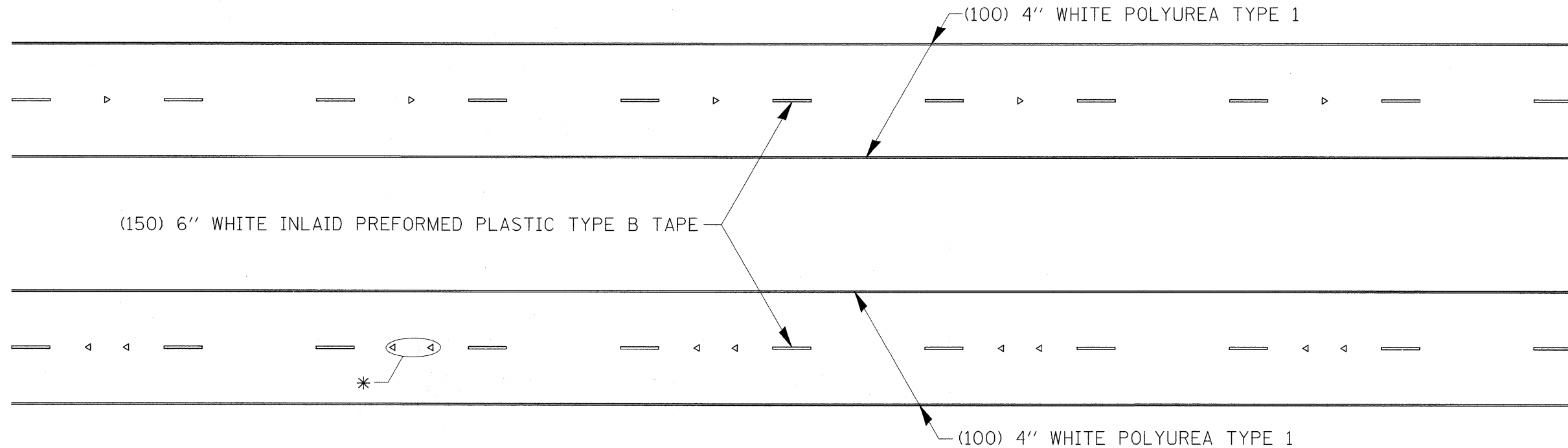
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

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.



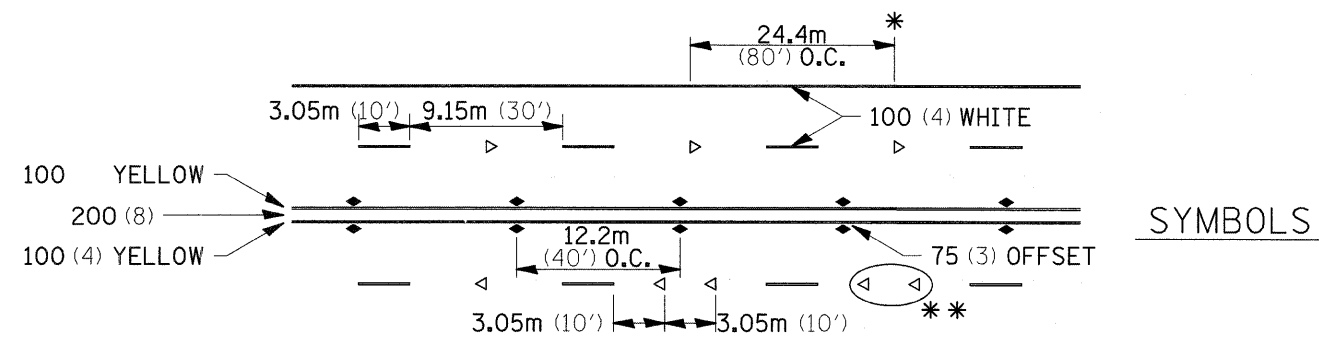
FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED - 10-21-08	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci\pw_work\FWIDOT\GOFFJL\dms34801\d00383ap1.dgn	DRAWN -	REVISED -	316			2T	OGLE	48	41	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64851							
PLOT DATE = Wed Mar 11 10:23:39 2009	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
SCALE:		SHEET NO. OF SHEETS STA. TO STA.		<b>TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1</b>						

# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
USE DOUBLE MARKERS WHEN ADT  $\geq$  25,000.

## MULTI-LANE / DIVIDED



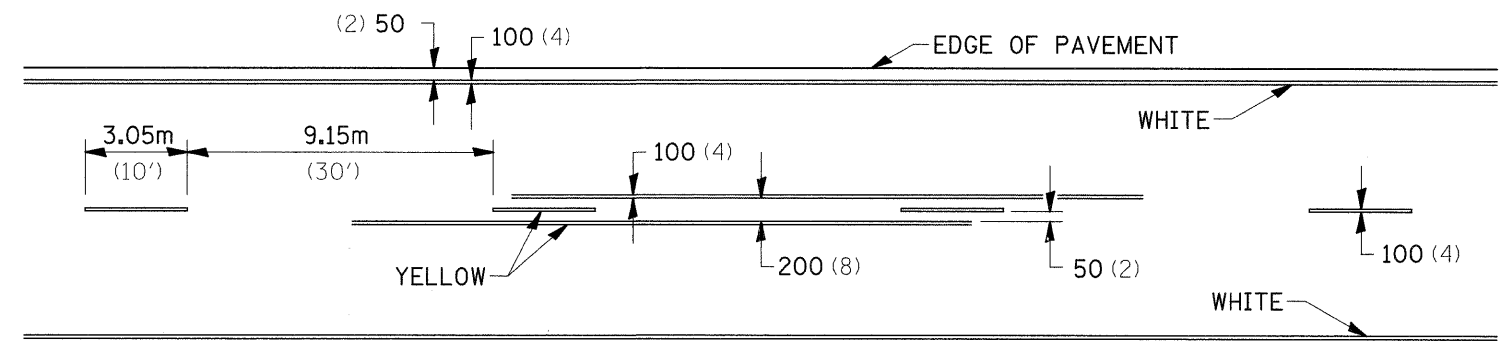
SYMBOLS

\* 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  $\geq$  25,000

## MULTI-LANE / UNDIVIDED

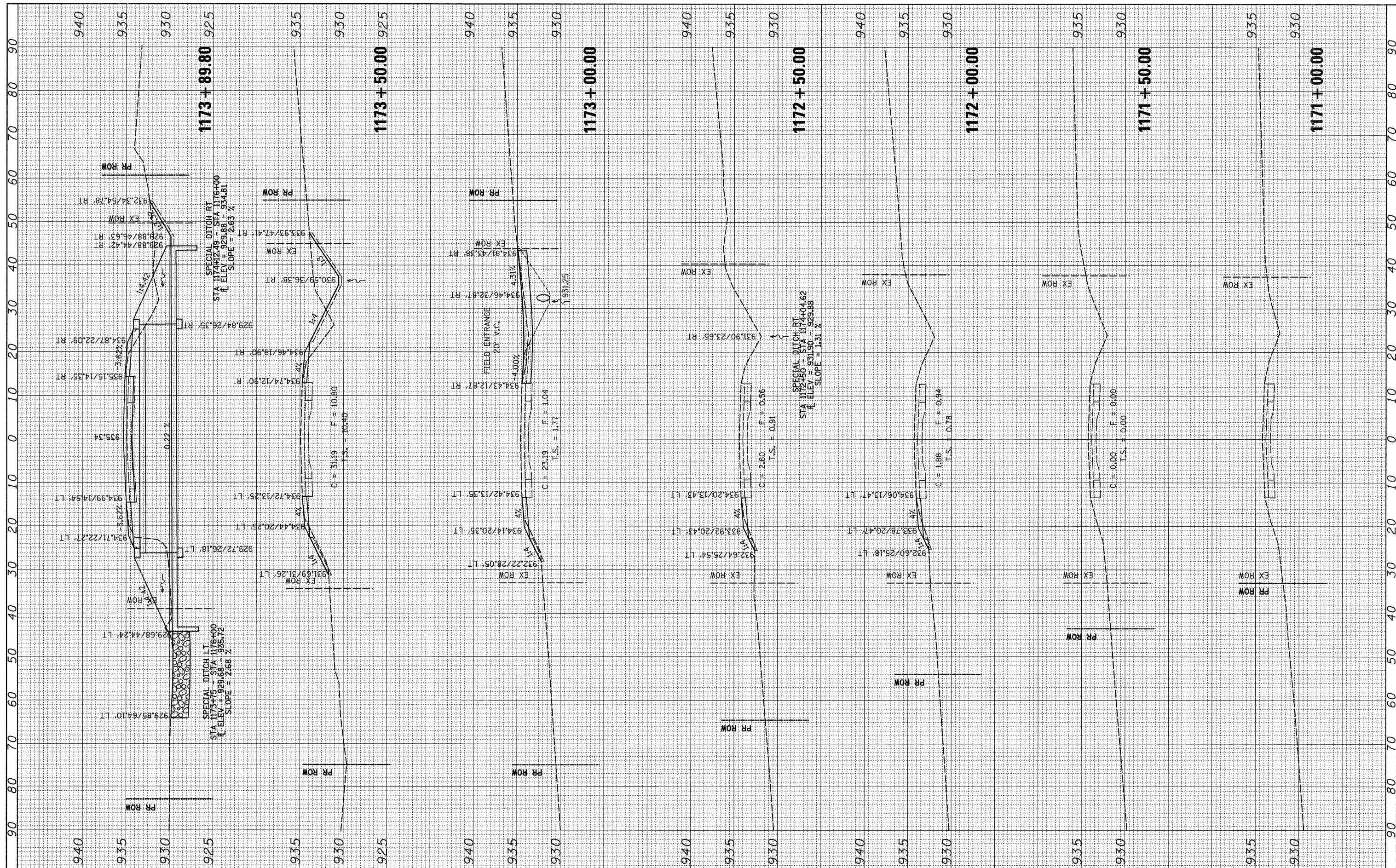
## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED - 10-21-08	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct\pw_work\PW\DOT\G0FFJL\dms34801\d00363apl.dgn		DRAWN -	REVISED -			316	2T	OGLE	48	42	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64851					
PLOT DATE = Wed Mar 11 10:23:39 2009		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		

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

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



FILE NAME =  
 USER NAME = goffjl  
 PLOT SCALE = 10.0000' / IN.  
 PLOT DATE = Wed Mar 11 10:34:21 2009

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

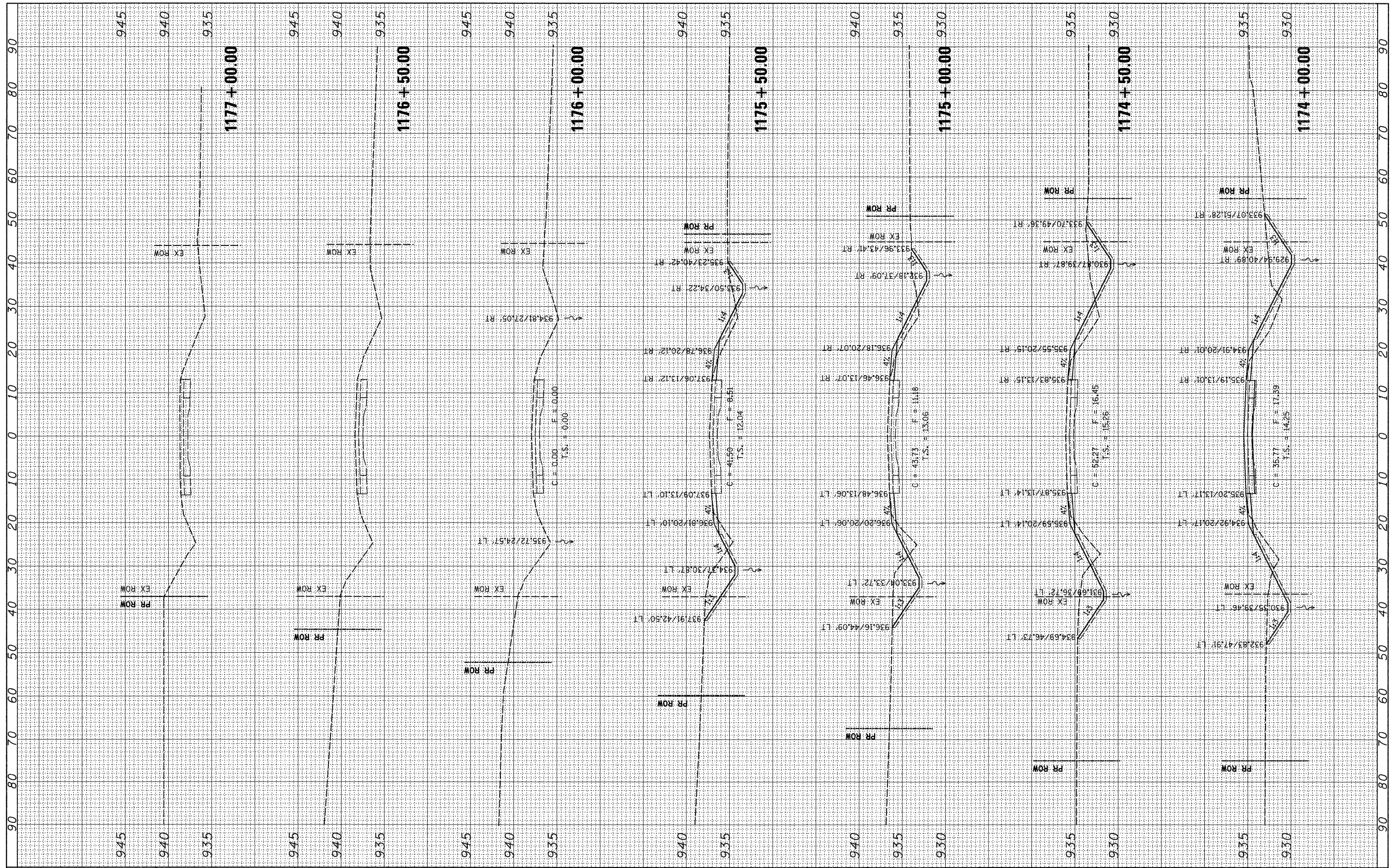
**IL ROUTE 26**

SCALE: SHEET NO. OF SHEETS STA. 1171+00.00 TO STA. 1173+89.80

F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 43
CONTRACT NO. 64851				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = c:\pwwork\pwwid\DOT\GOFF\JL\dms34683\d00303.xml.dgn  
 USER NAME = goffjl

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISIED -  
 REVISIED -  
 REVISIED -  
 REVISIED -

PLOT SCALE = 10,0000' / IN.  
 PLOT DATE = Wed Mar 11 10:34:21 2009

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

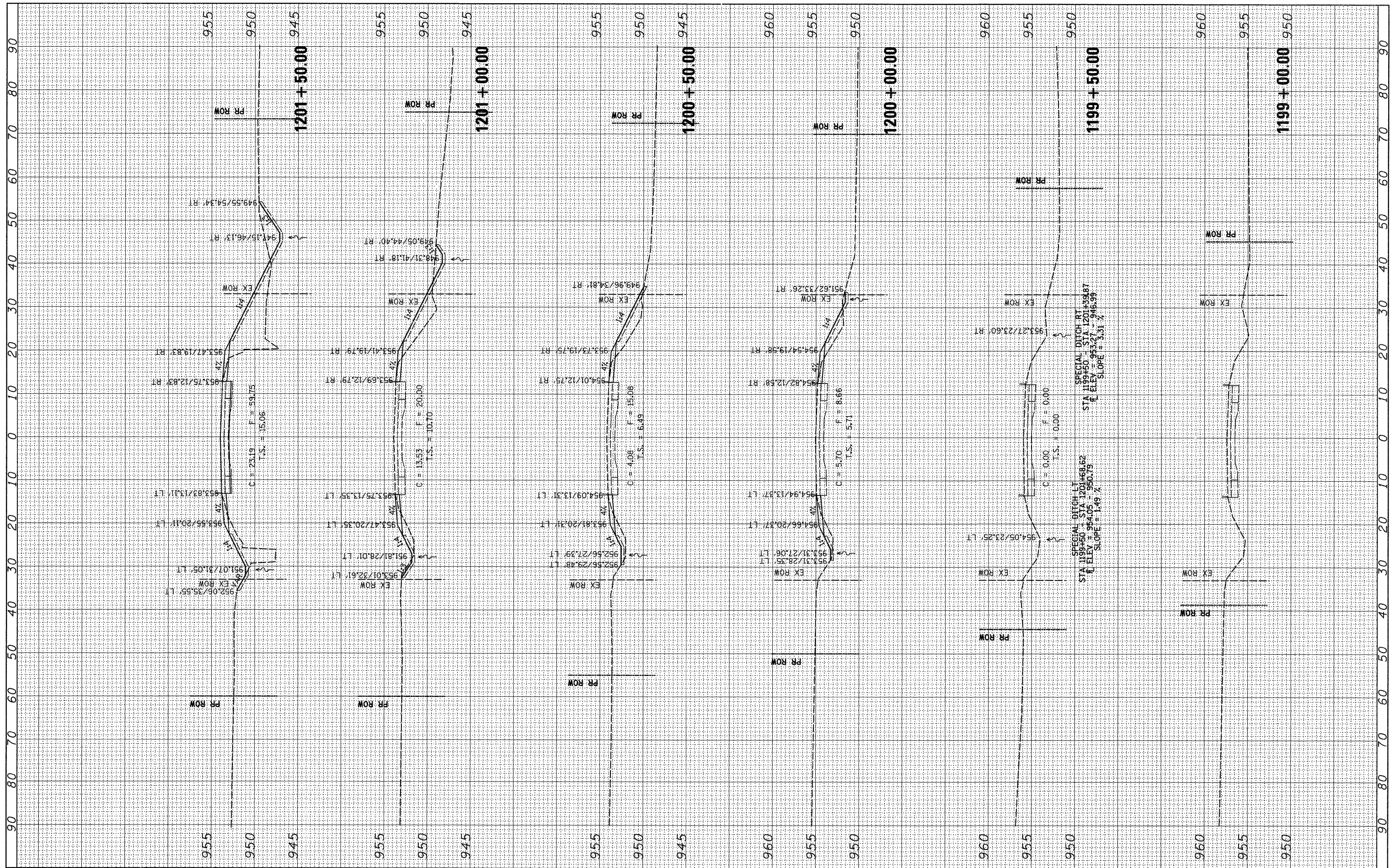
**IL ROUTE 26**

SCALE: SHEET NO. OF SHEETS STA. 1174+00.00 TO STA. 1177+00.00

F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 44
CONTRACT NO. 64851				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =  
 c:\pwr\work\pwidot\goffjl\dms34803\d0303.xml.dgn

USER NAME = goffjl  
 PLOT SCALE = 10.0000' / IN.  
 PLOT DATE = Wed Mar 11 10:34:22 2009

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

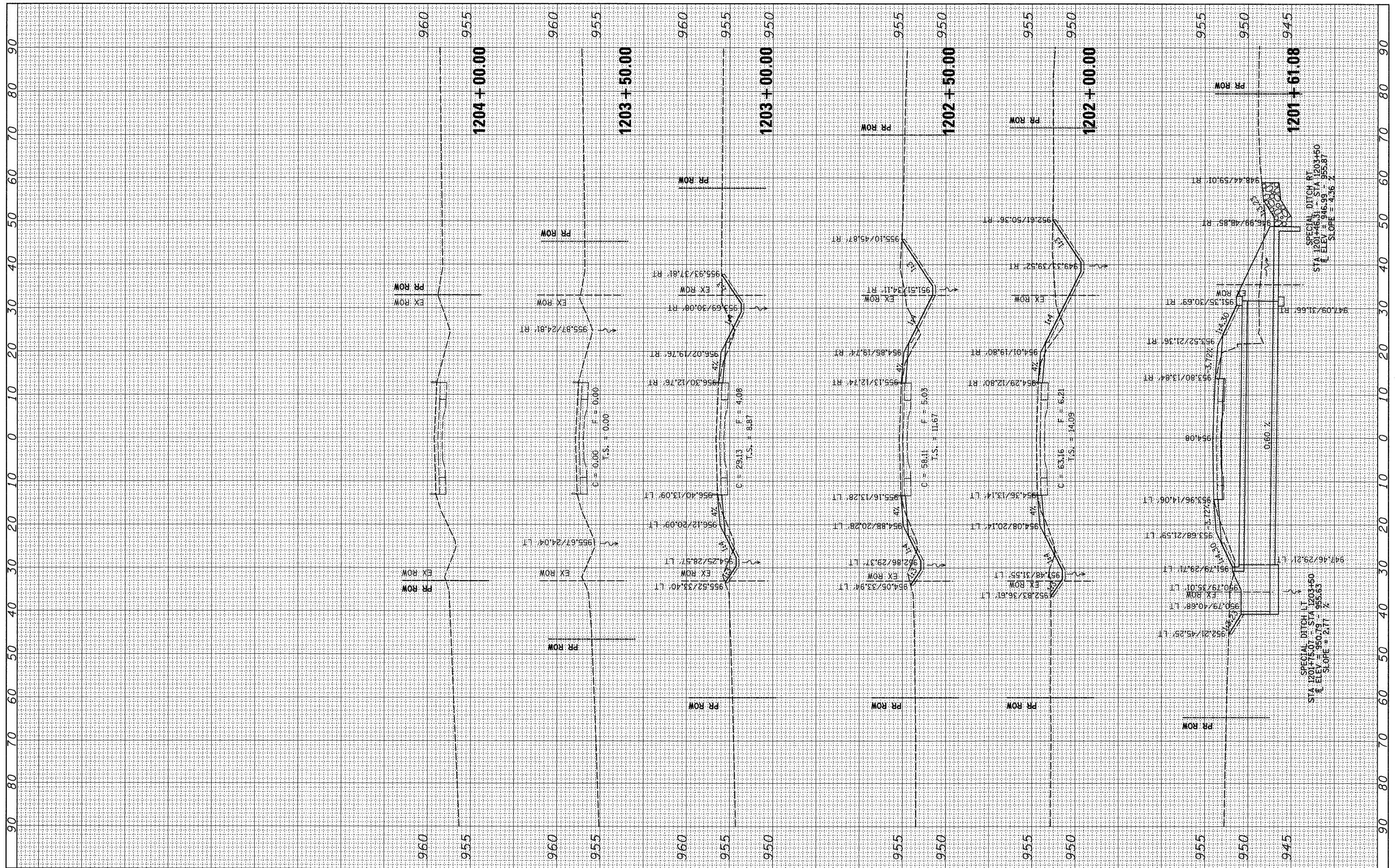
**IL ROUTE 26**

SCALE: SHEET NO. OF SHEETS STA. 1199+00.00 TO STA. 1201+50.00

F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 45
CONTRACT NO. 64851				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



FILE NAME = c:\pwwork\pwwid01\goffjl\dms34603\d0303.mldgn  
 USER NAME = goffjl  
 PLOT SCALE = 10.0000' / IN.  
 PLOT DATE = Wed Mar 11 10:41:14 2009

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

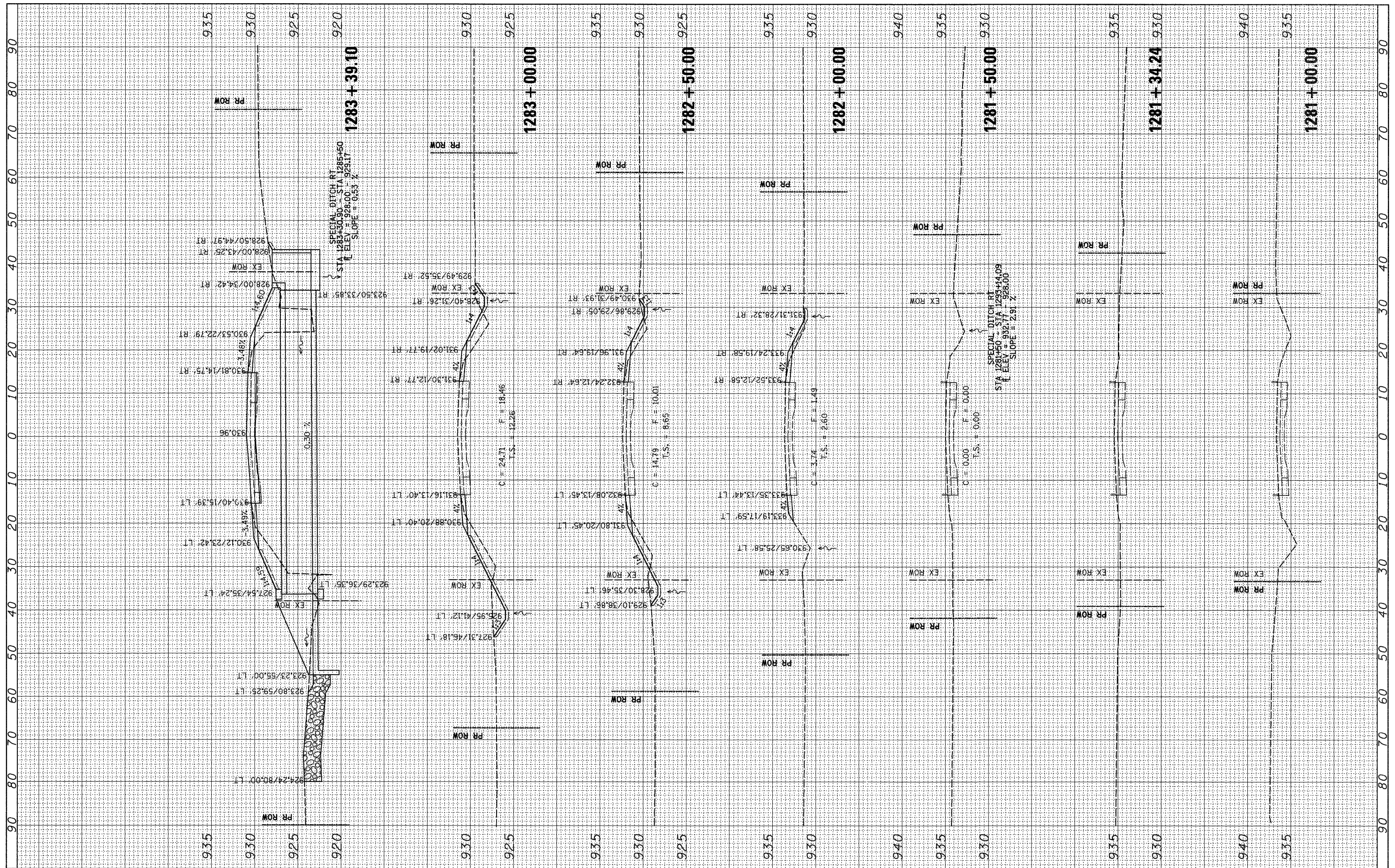
**IL ROUTE 26**

SCALE: SHEET NO. OF SHEETS STA. 1201+61.08 TO STA. 1204+00.00

F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 46
CONTRACT NO. 64851			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	BY	DATE
NOTED		
PLOTTED		
TEMPLATE		
NO. AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NOTED		
PLOTTED		
TEMPLATE		
NO. AREAS CHECKED		



FILE NAME = c:\pwork\pwork\pwork\GoffJL\dms34803\3\00303.xml.dgn

USER NAME = goffjl  
 PLOT SCALE = 10.0000' / IN.  
 PLOT DATE = Wed Mar 11 10:34:23 2009

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26**

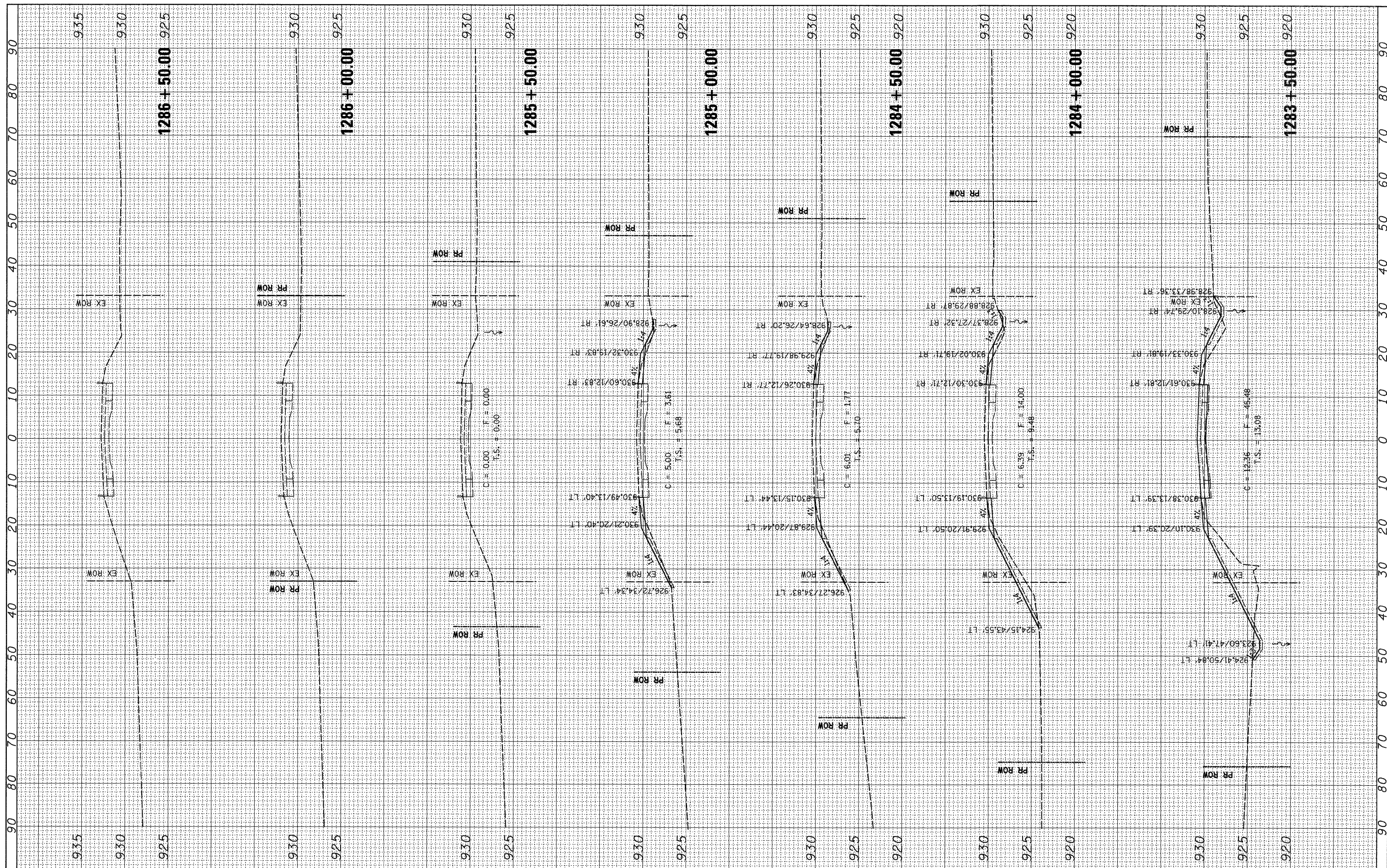
SCALE: SHEET NO. OF SHEETS STA. 1281+00.00 TO STA. 1283+39.10

F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 47
CONTRACT NO. 64851				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

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



FILE NAME = c:\pwwork\pwwid\GoffJL\dms34803\ad00303.xml.dgn  
 USER NAME = goffjl  
 PLOT SCALE = 10,0000' / IN.  
 PLOT DATE = Wed Mar 11 10:34:24 2009

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26**

SCALE: SHEET NO. OF SHEETS STA. 1283+50.00 TO STA. 1286+50.00

F.A.P. RTE. 316	SECTION 2T	COUNTY OGLE	TOTAL SHEETS 48	SHEET NO. 48
CONTRACT NO. 64851				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				