4-25-08 Letting, Item 088

64C75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	1

PROJECT ENGINEER: REBECCA MARRUFFO

SQUAD LEADER: CHRIS CONDERMAN (815)-284-5955

INDEX

STATE STANDARDS

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630301-04	SHOULDER WIDENING FOR TYPE 1(SPECIAL) GUARDRAIL TERMINALS
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701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") AWAY
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701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS * 45 MPH
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701901	TRAFFIC CONTROL DEVICES
720011	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
780001-01	TYPICAL PAVEMENT MARKINGS
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT

0 100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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

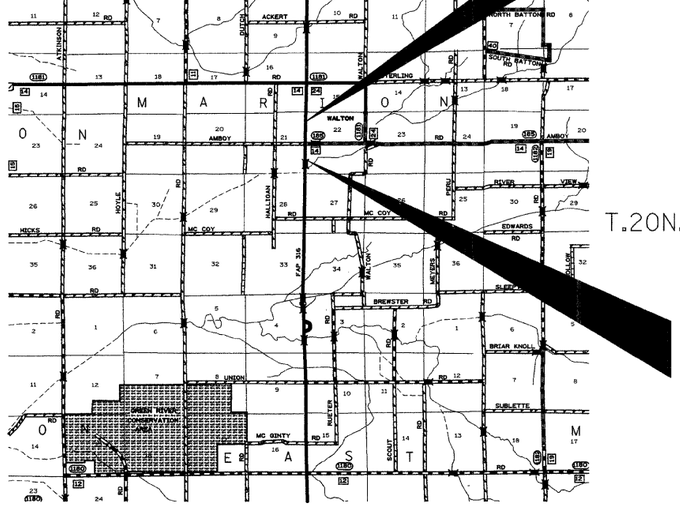
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 64C75

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

FAP ROUTE 316 (IL 26)
SECTION 102T
PROJECT ACNHF-0316(033)
LEE COUNTY
C-92-021-08

R.9E.

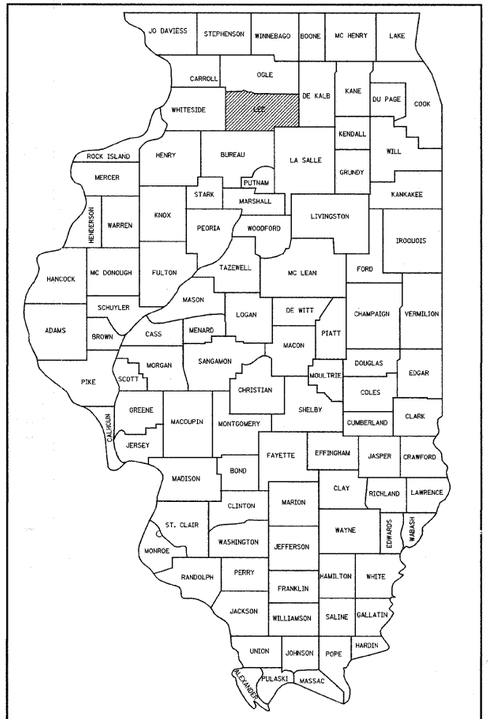


R.9E.

IMPROVEMENT BEGINS
STA.455+00
INCLUDES THE REMOVAL AND REPLACEMENT OF THE EXISTING BOX CULVERT
EXISTING SN-052-1027
PROPSED SN-052-1097
IMPROVEMENT ENDS
STA.460+00

IMPROVEMENT BEGINS
STA.421+56
PLUG EXISTING CULVERT & REDITCH
IMPROVEMENT ENDS
STA.432+00

D-92-006-07



LOCATION OF SECTION INDICATED THUS: –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 4-25 2008
George F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 21, 2008
Eric E. Harm
Interim ENGINEER OF DESIGN AND ENVIRONMENT
March 21, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

MARION TOWNSHIP, SECTION 21,22

GROSS LENGTH OF PROJECT = 3,844 LIN. FT. = 0.73 MILES
NET LENGTH OF PROJECT = 1,544 LIN. FT. = 0.29 MILES

CONTRACT NO. 64C75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	Code No.	Item	Units	Total Quantity	RURAL 80 % Fed. 20 % State Y007
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	10	10
	20200100	EARTH EXCAVATION	CU YD	4,855	4,855
*	25000210	SEEDING, CLASS 2A	ACRE	1.61	1.61
*	25000310	SEEDING, CLASS 4	ACRE	1.07	1.07
● *	25000750	MOWING	ACRE	5.36	5.36
*	25100115	MULCH, METHOD 2	ACRE	2.68	2.68
	25100630	EROSION CONTROL BLANKET	SQ YD	1,281	1,281
	25100900	TURF REINFORCEMENT MAT	SQ YD	64	64
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	536	536
	28000300	TEMPORARY DITCH CHECKS	EACH	25	25
	28000400	PERIMETER EROSION BARRIER	FOOT	50	50
	28000500	INLET AND PIPE PROTECTION	EACH	2	2
	28100107	STONE RIPRAP, CLASS A4	SQ YD	34	34
	28200200	FILTER FABRIC	SQ YD	34	34
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	204	204
	40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	12	12
	40600990	TEMPORARY RAMP	SQ YD	60	60
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	56	56
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	16	16
	44201347	CLASS C PATCHES, TYPE IV, 9 INCH	SQ YD	182	182
	48100100	AGGREGATE SHOULDERS, TYPE A	TON	905	905
	48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	660	660
	50100100	REMOVAL OF EXISTING STRUCTURE	EACH	1	1
	50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2
	50800305	WELDED WIRE FABRIC 6X6	SQ YD	182	182
	51500100	NAME PLATES	EACH	1	1
	54001000	BOX CULVERT END SECTIONS	EACH	2	2

● 100% STATE

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REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

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CONTRACT NO. 64C75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

Code No.	Item	Units	Total Quantity	RURAL 80 % Fed. 20 % State Y007
54010603	PRECAST CONCRETE BOX CULVERT 6' X 3'	FOOT	122	122
54215550	METAL END SECTIONS 15"	EACH	2	2
5421D024	PIPE CULVERTS, CLASS D, TYPE 1 24" (TEMPORARY)	FOOT	26	26
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	52	52
63301210	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	325	325
63301990	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	2
63302700	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2
63304385	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 1	EACH	2	2
63500105	DELINEATORS	EACH	4	4
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	19	19
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	15
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	63	63
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	21	21
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6,520	6,520
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	10	10
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2
X0323660	DROP BOX NO.1	EACH	1	1
XX001135	PAVEMENT PATCHING SPECIAL	SQ YD	182	182
Z0005400	BREAKER-RUN CRUSHED STONE	TON	306	306
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0023600	FILLING EXISTING CULVERTS	EACH	2	2

* SPECIALTY ITEMS

● NON- PARTICIPATING ITEMS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

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SUMMARY OF QUANTITIES

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 316 (US 26)	102T	Lee	41	4
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C75				

See cross sections for special ditches and backslopes.

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

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

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

Program #5 (Arch. Size) Enlarge 200% Enlarge 107%

Mulch on temporary seeding Class 7 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 following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Level Binder	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 64-22	PG 58-22	PG 58-22
Design Air Voids	4.0 @ N70	4.0 @ N70	3 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5	IL 9.5 or 12.5	BAM
Friction Aggregate	D	N/A	C	N/A
20 Year ESAL	2.3	2.3	N/A	N/A

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 metric ton (ton) for LEVELING BINDER (MACHINE METHOD) of the type specified.

The new number for this structure will be 052-1097.

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.

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

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

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

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.

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

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

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

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.

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:

Gallatin River Communications	Commonwealth Edison Co.
Verizon	NICOR Gas Co.

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.

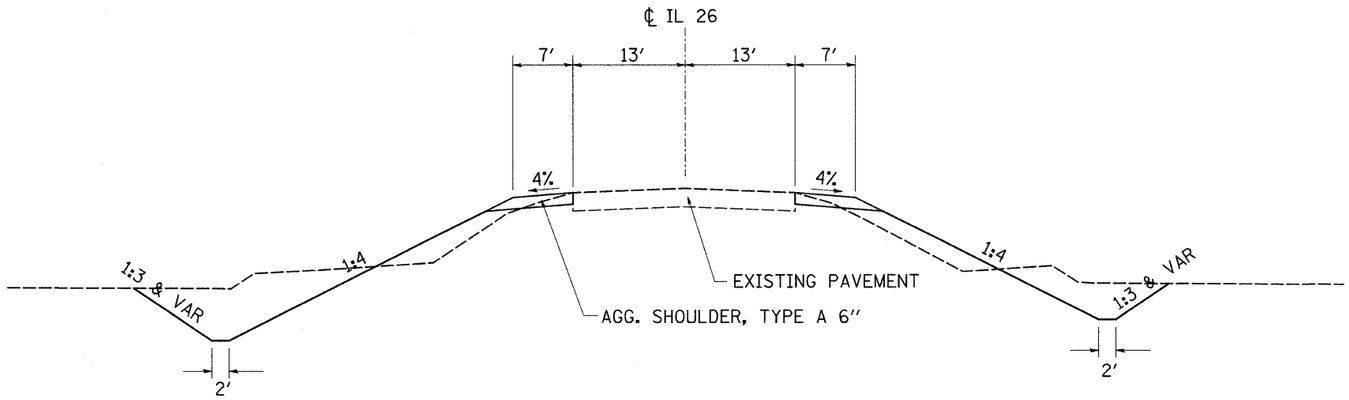
If the Contractor chooses to use cast-in-place design for the end sections or culverts, they are required to furnish and submit the structure design for approval.

CONTRACT NO. 64C75

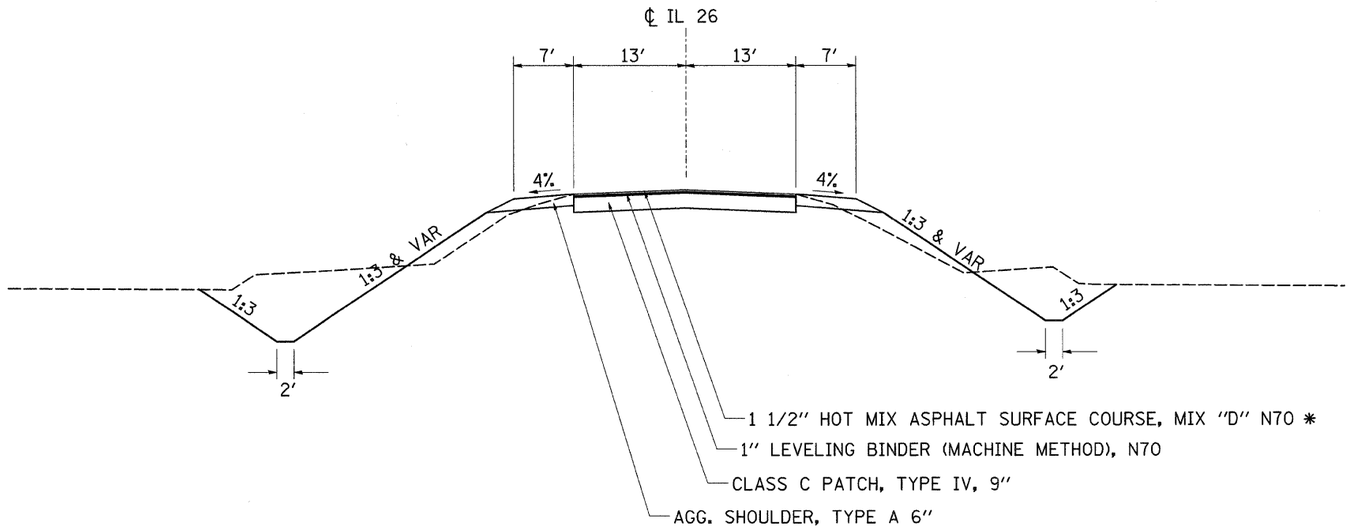
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	5
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

STA. 424+86 - STA. 431+50
STA. 456+50 - STA. 457+51.50
STA. 458+14.50 - STA. 459+00



STA. 457+51.50 - STA. 458+14.50



* 112 LB/SQ YD IN

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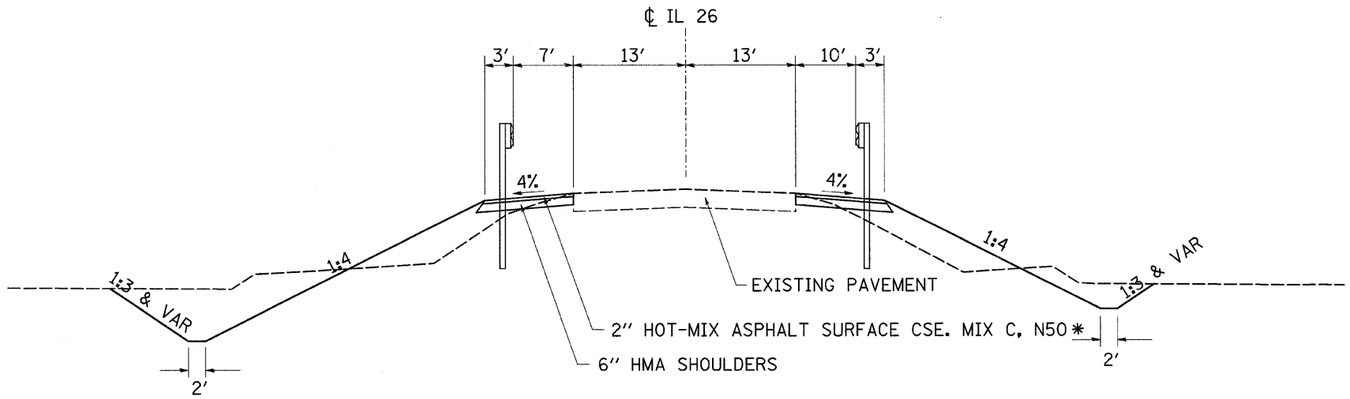
TYPICAL SECTIONS

CONTRACT NO. 64C75

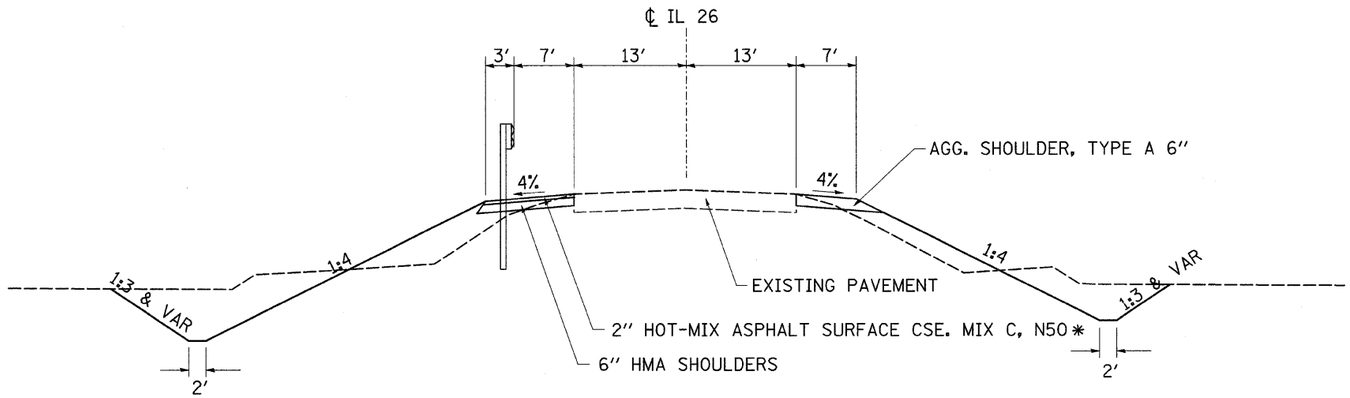
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

STA. 421+56 - STA. 423+95.92



STA. 423+95.92 - STA. 424+86



* 112 LB/SQ YD IN

REVISIONS NAME	DATE

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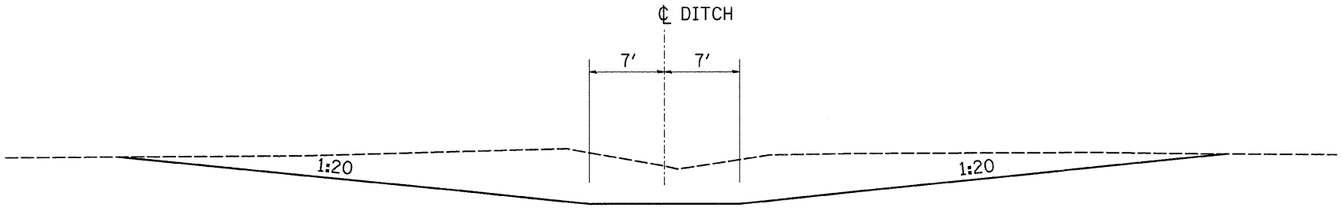
CONTRACT NO. 64C75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

STA. 10+75 - STA. 12+00
STA. 13+00 - STA. 14+50



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TYPICAL SECTIONS

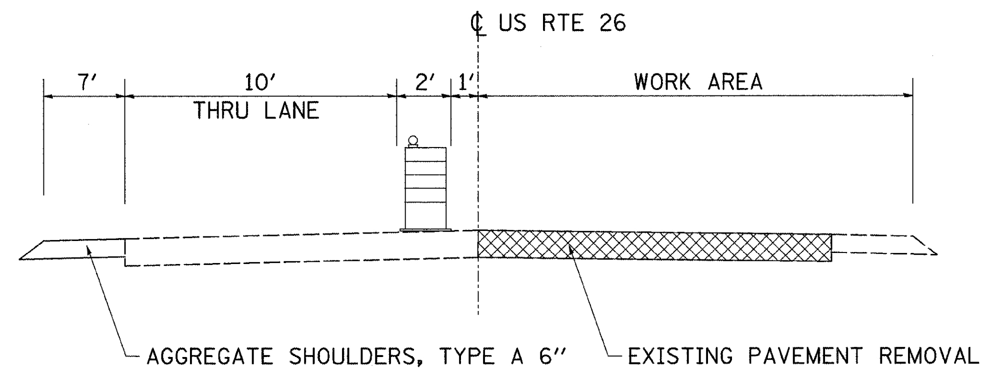
CONTRACT NO. 64C75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

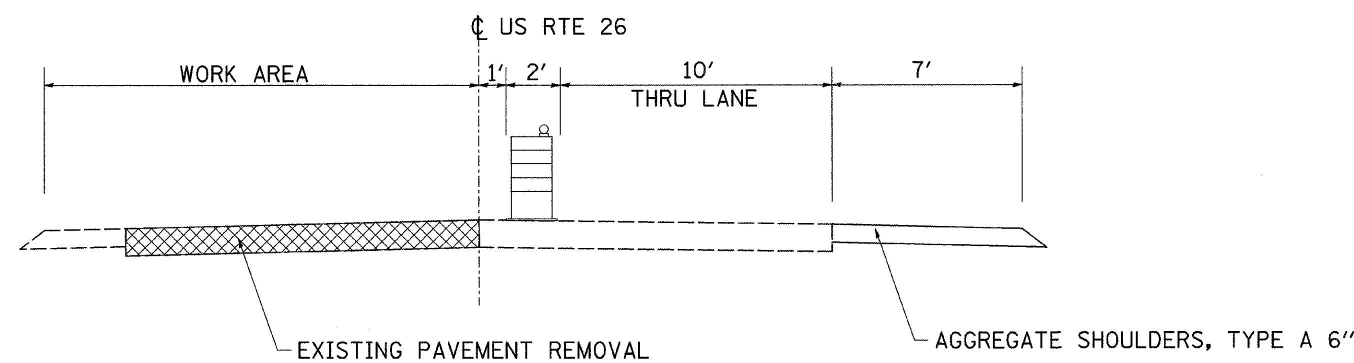
STAGING TYPICAL SECTIONS

1. EXTEND BOX CULVERT 13′ TO THE LEFT WITH 2 PIPE CULVERTS, CLASS D TYPE 1 24″ TEMPORARY AND 2 24″ METAL END SECTIONS.
2. DO SHOULDER WORK SO TRAFFIC CAN RUN ON SHOULDER AND DIRT WORK FOR THE WATER TO DRAIN THROUGH THE TEMPORARY CULVERT EXTENSION.
3. THEN MOVE TO THE RIGHT SIDE AND GET ALL OF STAGE 1 DONE.
4. THEN MOVE TO LEFT SIDE AND DO STAGE 2.
5. CONTRACTOR WILL NOT GET PAID FOR ANY DIRT HAULED TO THE JOB.

STAGE 1



STAGE 2



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

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STAGING TYPICAL SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION	OFFSET
10	421 + 53	51 LT
10	TOTAL	

20200100 EARTH EXCAVATION

CY YD	LOCATION	SIDE
3556	421 + 55.0 – 432 + 00	LT & RT
271	455 + 00 – 459 + 50	LT & RT
140	10 + 75.0 – 12 + 00	LT & RT
739	13 + 00 – 14 + 50	LT & RT
149	457 + 83	EXTRA CUT CULVERT 19.75' X 101' X 2'
4855	TOTAL	

25000210 SEEDING, CLASS 2 A

ACRE	LOCATION	SIDE
0.71	421 + 55.0 – 432 + 00	LT
0.6	421 + 55.0 – 432 + 00	RT
0.13	455 + 50.0 – 459 + 00	LT
0.17	455 + 50.0 – 459 + 00	RT
1.61	TOTAL	

25000310 SEEDING, CLASS 4

ACRE	LOCATION	SIDE
0.19	10 + 75.0 – 12 + 00	LT
0.41	13 + 00 – 14 + 50	RT
0.21	421 + 55.0 – 432 + 00	LT
0.16	421 + 55.0 – 432 + 00	RT
0.08	455 + 50.0 – 459 + 00	LT
0.02	455 + 50.0 – 459 + 00	RT
1.07	TOTAL	

25000750 MOWING

ACRE	LOCATION	SIDE
0.71	421 + 55.0 – 432 + 00	LT
0.6	421 + 55.0 – 432 + 00	RT
0.13	455 + 50.0 – 459 + 00	LT
0.17	455 + 50.0 – 459 + 00	RT
0.19	10 + 75.0 – 12 + 00	LT
0.41	13 + 00 – 14 + 50	RT
0.21	421 + 55.0 – 432 + 00	LT
0.16	421 + 55.0 – 432 + 00	RT
0.08	455 + 50.0 – 459 + 00	LT
0.02	455 + 50.0 – 459 + 00	RT
2.68	TOTAL 5.36	MOW TWICE

25100115 MULCH, METHOD 2

ACRE	LOCATION	SIDE
0.71	421 + 55.0 – 432 + 00	LT
0.6	421 + 55.0 – 432 + 00	RT
0.13	455 + 50.0 – 459 + 00	LT
0.17	455 + 50.0 – 459 + 00	RT
0.19	10 + 75.0 – 12 + 00	LT
0.41	13 + 00 – 14 + 50	RT
0.21	421 + 55.0 – 432 + 00	LT
0.16	421 + 55.0 – 432 + 00	RT
0.08	455 + 50.0 – 459 + 00	LT
0.02	455 + 50.0 – 459 + 00	RT
2.68	TOTAL	

25100630 EROSION CONTROL BLANKET

SQ YD	LOCATION	SIDE
124	455 + 00 – 457 + 76	RT
57	457 + 90.0 – 459 + 50	RT
123	455 + 00 – 457 + 76	LT
71	457 + 90.0 – 459 + 50	LT
108	421 + 44.0 – 423 + 87	RT
332	424 + 54.0 – 432 + 00	RT
466	421 + 54.0 – 432 + 00	LT
1281	TOTAL	

25100900 TURF REINFORCEMENT MAT

SQ YD	LOCATION	SIDE
64	457 + 71.0 – 457 + 95	LT
64	TOTAL	

28000250 TEMPORARY EROSION CONTROL SEEDING

POUND	LOCATION	SIDE
71	421 + 55.0 – 432 + 00	LT
60	421 + 55.0 – 432 + 00	RT
13	455 + 50.0 – 459 + 00	LT
17	455 + 50.0 – 459 + 00	RT
19	10 + 75.0 – 12 + 00	LT
41	13 + 00 – 14 + 50	RT
21	421 + 55.0 – 432 + 00	LT
16	421 + 55.0 – 432 + 00	RT
8	455 + 50.0 – 459 + 00	LT
2	455 + 50.0 – 459 + 00	RT
268.0	TOTAL 536.0 2 SEEDINGS	

28000300 TEMPORARY DITCH CHECKS

EACH	LOCATION	SIDE
1	421 + 44.0	RT
1	421 + 53.0	LT
2	422 + 00	RT & LT
2	423 + 00	RT & LT
1	424 + 00	RT
2	425 + 00	RT & LT
2	426 + 00	RT & LT
2	427 + 00	RT & LT
2	428 + 00	RT & LT
2	429 + 00	RT & LT
2	430 + 00	RT & LT
2	431 + 00	RT & LT
1	11 + 25.0	LT
1	11 + 75.0	LT
1	14 + 00	RT
1	15 00	RT
25	TOTAL	

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION	SIDE
50	456 + 00 – 456 + 50	RT
50	TOTAL	

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION	SIDE
1	424 + 52.0	RT
1	457 + 83.0	LT
2	TOTAL	

28100107 STONE RIPRAP, CLASS A4

SQ YD	LOCATION	SIDE
33.3	457 + 83.0	RT
33.3	TOTAL	

28200200 FILTER FABRIC

SQ YD	LOCATION	SIDE
33.3	457 + 83.0	RT
33.3	TOTAL	

35101400 AGGREGATE BASE COURSE, TYPE B

TON	LOCATION	SIDE	NOTE
102	424 + 19.0	RT	
102	424 + 19.0	RT	TEMP ENTR.
204	TOTAL		

40600635 LEVELING BINDER (MACHINE METHOD), N70

TON	LOCATION	SIDE
6	457 + 51.5 – 458 + 14.5	RT
6	457 + 51.5 – 458 + 14.5	LT
12.0	TOTAL	

40600990 TEMPORARY RAMP

SQ YD	LOCATION	SIDE
15	457 + 51.5 – 457 + 61.5	RT
15	457 + 51.5 – 457 + 61.5	LT
15	458 + 4.5 – 458 + 14.5	RT
15	458 + 4.5 – 458 + 14.5	LT
60.0	TOTAL	

40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

TON	LOCATION	SIDE
24	421 + 55.0 – 423 + 96	RT
32	421 + 55.0 – 424 + 86	LT
56.0	TOTAL	

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

TON	LOCATION	SIDE
8	457 + 51.5 – 458 + 14.5	RT
8	457 + 51.5 – 458 + 14.5	LT
16.0	TOTAL	

44201347 CLASS C PATCHES, TYPE IV, 9 INCH

SQ YD	LOCATION	SIDE
91.0	457 + 51.50 – 458 + 14.5	RT
91.0	457 + 51.50 – 458 + 14.5	LT
182.0	TOTAL	

48100100 AGGREGATE SHOULDERS, TYPE A

TON	LOCATION	SIDE	NOTE
330	424 + 44.0 – 431 + 50	RT	
311	424 + 86.0 – 431 + 50	LT	
30.0	457 + 51.50 – 458 + 14.5	LT	Second Time
117	456 + 50.0 – 459 + 00	RT	
117	456 + 50.0 – 459 + 00	LT	
905	TOTAL		

48203021 HOT-MIX ASPHALT SHOULDERS, 6"

SQ YD	LOCATION	SIDE
280.0	421 + 55.0 – 423 + 96	RT
380	421 + 55.0 – 424 + 86	LT
660.0	TOTAL	

50100100 REMOVAL OF EXISTING STRUCTURE

EACH	LOCATION
1	457 + 83
1	TOTAL

50104400 CONCRETE HEADWALL REMOVAL

EACH	LOCATION	SIDE
1	430 + 90	RT
1	430 + 90	LT
2	TOTAL	

50800305 WELDED WIRE FABRIC 6*6

SQ. YD.	LOCATION	SIDE
91.0	457 + 51.50 – 458 + 14.5	RT
91.0	457 + 51.50 – 458 + 14.5	LT
182	TOTAL	

51500100 NAME PLATES

EACH	LOCATION	NOTE
1	457 + 83	SN # 008-1015
1	TOTAL	

54001000 BOX CULVERT END SECTIONS

EACH	LOCATION	SIDE
2	457 + 83.0	RT
2	TOTAL	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.

DATE

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CHECKED BY

SCHEDULE OF QUANTITIES

PLOT DATE = Wed Jan 30 08:29:08 2008
FILE NAME = c:\projects\p200607\d00607cvr.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hensonke

SCHEDULE OF QUANTITIES

54010603 PRECAST CONCRETE BOX CULVERT 6' X 3'

FOOT	LOCATION	
61	457 + 83	RT
61	457 + 83	LT
122	TOTAL	

54215550 METAL END SECTIONS 15"

EACH	LOCATION	
2	424 + 19	RT & LT
2	TOTAL	

5421D024 PIPE CULVERTS, CLASS D, TYPE 1 24" (TEMPORARY)

FOOT	LOCATION	
13	457 + 83	LT
13	457 + 83	LT
26	TOTAL	

542D0220 PIPE CULVERTS, CLASS D, TYPE 1 15"

FOOT	LOCATION	
52	424 + 19	RT
52	TOTAL	

63301210 REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A

FOOT	LOCATION	
125	422 + 1.75 – 423 + 26.75	RT
200	422 + 1.75 – 424 + 1.75	LT
325	TOTAL	

63301990 REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1

EACH	LOCATION	
1	447 + 7.00	RT
1	447 + 7.00	LT
2	TOTAL	

63302700 REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 6

EACH	LOCATION	
1	421 + 55.50 – 422 + 1.75	RT
1	421 + 55.50 – 422 + 1.75	LT
2	TOTAL	

63304385 TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 1

EACH	LOCATION	
1	423 + 33.00	LT
1	424 + 37.00	LT
2	TOTAL	

63500105 DELINEATORS

EACH	LOCATION	
1	423 + 75.00	RT
1	424 + 52.00	LT
1	457 + 74.00	RT
1	457 + 91.00	LT
4	TOTAL	

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION	
2	420 + 00	RT & LT
2	421 + 00	RT & LT
1	423 + 00	RT
1	424 + 00	RT
1	426 + 00	LT
2	431 + 00	RT & LT
2	432 + 00	RT & LT
2	455 + 00	RT & LT
2	457 + 50.00	RT & LT
2	458 + 25.00	RT & LT
2	460 + 00	RT & LT
19	TOTAL	

66700305 PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION
2	Location to be determined out in field.
2	TOTAL

70300100 SHORT-TERM PAVEMENT MARKING

FOOT	LOCATION		
21.0	457 + 51.50 – 458 + 14.5	RT	TEMP PATCH
21.0	457 + 51.50 – 458 + 14.5	RT	PERM PATCH
21.0	457 + 51.50 – 458 + 14.5	RT	SURFACE
63	TOTAL		

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION		
7.0	457 + 51.50 – 458 + 14.5	RT	TEMP PATCH
7.0	457 + 51.50 – 458 + 14.5	RT	PERM PATCH
7.0	457 + 51.50 – 458 + 14.5	RT	SURFACE
21	TOTAL		

78001110 PAINT PAVEMENT MARKING – LINE 4"

FOOT	LOCATION	
1045	421 + 55.0 – 432 + 00	RT
270	421 + 55.0 – 432 + 00	CL
1045	421 + 55.0 – 432 + 00	LT
400	455 + 00 – 459 + 00	RT
100	455 + 00 – 459 + 00	CL
400	455 + 00 – 459 + 00	LT
3260	TOTAL 6520 Is two coats	

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION	
5	421 + 55.0 – 423 + 75	RT
5	421 + 55.0 – 424 + 52	LT
10	TOTAL	

78201000 TERMINAL MARKER – DIRECT APPLIED

EACH	LOCATION	
1	423 + 75.00	RT
1	424 + 52.00	LT
2	TOTAL	

X0323660 DROP BOX NO.1

EACH	LOCATION	
1	457 + 83.0	LT
1	TOTAL	

XX001135 PAVEMENT PATCHING SPECIAL

SQ YD	LOCATION	
91.0	457 + 51.50 – 458 + 14.5	RT
91.0	457 + 51.50 – 458 + 14.5	LT
182.0	TOTAL	

Z0005400 BREAKER-RUN CRUSHED STONE

TON	LOCATION
306	457 + 83.0
306	TOTAL

Z0023600 FILLING EXISTING CULVERTS

EACH	LOCATION
1	430 + 99.0
1	430 + 85.0
2	TOTAL

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EXISTING ALIGNMENT

Chain IL26 contains:
29 30

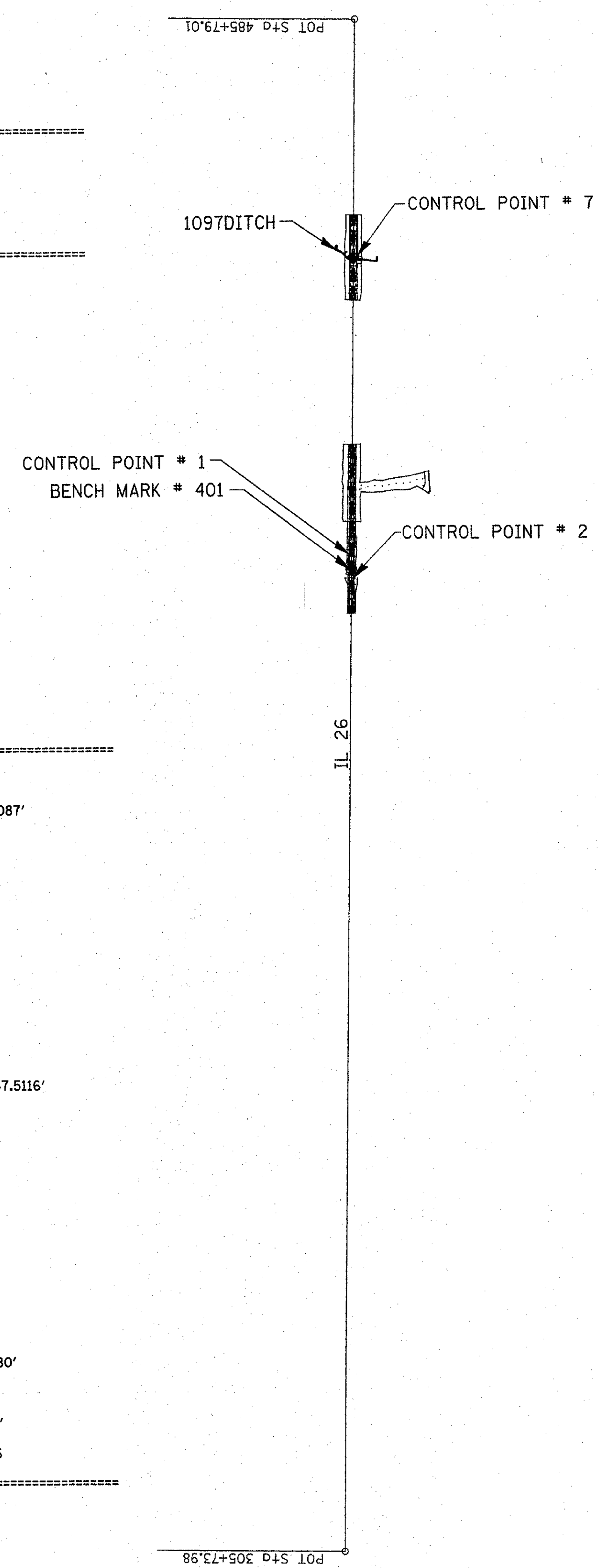
Beginning chain IL26 description
==

Point 29 N 1,822,562.4040 E 2,489,810.4179 Sta 305+73.9803

Course from 29 to 30 0° 46′ 33.5369″ Dist 18,005.0259′

Point 30 N 1,840,565.7786 E 2,490,054.2606 Sta 485+79.0062

==
Ending chain IL26 description



PROPOSED ALIGNMENT

Chain 1097DITCH contains:
50000 CUR 50200 CUR 50210 50003 50004

Beginning chain 1097DITCH description
==

Point 50000 N 1,837,884.2683 E 2,489,804.9831 Sta 10+00.0000

Course from 50000 to PC 50200 105° 42′ 47.6093″ Dist 10.5087′

Curve Data

Curve 50200
P.I. Station 10+64.8822 N 1,837,866.6967 E 2,489,867.4406
Delta = 30° 25′ 06.5983″ (RT)
Degree = 28° 38′ 52.4031″
Tangent = 54.3735′
Length = 106.1806′
Radius = 200.0000′
External = 7.2594′
Long Chord = 104.9380′
Mid. Ord. = 7.0052′
P.C. Station 10+10.5087 N 1,837,881.4223 E 2,489,815.0991
P.T. Station 11+16.6893 N 1,837,827.4970 E 2,489,905.1216
C.C. N 1,837,688.8965 E 2,489,760.9346

Course from PT 50200 to PC 50210 136° 07′ 54.2075″ Dist 57.5116′

Curve Data

Curve 50210
P.I. Station 11+95.0937 N 1,837,770.9725 E 2,489,959.4560
Delta = 45° 21′ 20.6705″ (LT)
Degree = 114° 35′ 29.6125″
Tangent = 20.8928′
Length = 39.5804′
Radius = 50.0000′
External = 4.1896′
Long Chord = 38.5550′
Mid. Ord. = 3.8656′
P.C. Station 11+74.2009 N 1,837,786.0349 E 2,489,944.9773
P.T. Station 12+13.7813 N 1,837,770.6896 E 2,489,980.3469
C.C. N 1,837,820.6850 E 2,489,981.0240

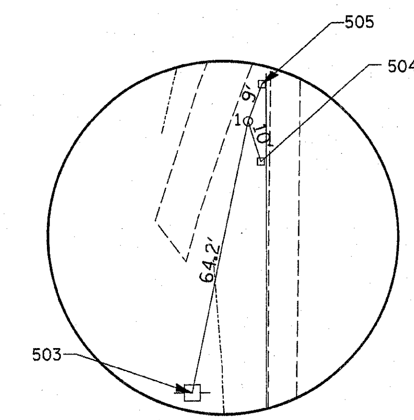
Course from PT 50210 to 50003 90° 46′ 33.5370″ Dist 91.1780′

Point 50003 N 1,837,769.4548 E 2,490,071.5165 Sta 13+04.9593

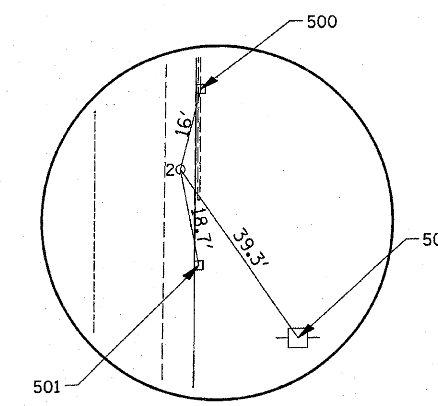
Course from 50003 to 50004 96° 09′ 01.0441″ Dist 222.8504′

Point 50004 N 1,837,745.5793 E 2,490,293.0842 Sta 15+27.8096

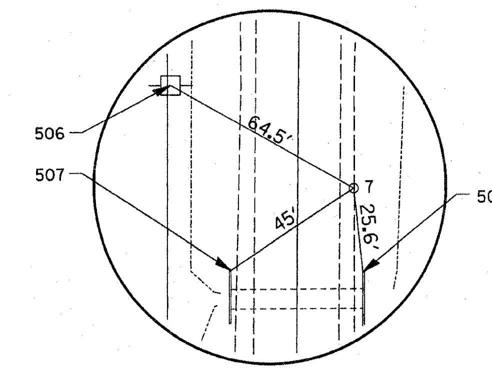
==
Ending chain 1097DITCH description



HORIZONTAL CONTROL POINT NO. 1



HORIZONTAL CONTROL POINT NO. 2



HORIZONTAL CONTROL POINT NO. 7

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1834239.7680	2489943.3480	699.0020	IL26	422+52.0736	25.229′ LT	GPS CONTROL POINT, PIN
2	1834076.1110	2489982.8490	700.0380	IL26	420+88.9666	16.4847′ RT	GPS CONTROL POINT, PK NAIL
7	1837803.7094	2490033.9940	707.6243	IL26	458+16.9158	17.1421′ RT	PK NAIL

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1822775.1316	2489747.2439	697.3003	IL26	307+85.8328	66.0492′ LT	POT

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	1834143.5560	2489944.4420	699.4200	IL26	421+55.8853	22.8321′ LT	HEADWALL, CHISELED SQUARE

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	IL26	421+04.5266	20.3664′ RT	GUARDPOST, SHINER
501	IL26	420+70.6101	20.1927′ RT	GUARDPOST, SHINER
502	IL26	420+57.0210	39.4015′ RT	POWER POLE, SHINER
503	IL26	421+89.0838	37.8601′ LT	POWER POLE, SHINER
504	IL26	422+42.6751	22.1765′ LT	GUARDPOST, SHINER
505	IL26	422+60.6908	22.0245′ LT	GUARDPOST, SHINER
506	IL26	458+48.2206	39.2441′ LT	POWER POLE
507	IL26	457+91.65554	20.2693′ LT	HEADWALL
508	IL26	457+91.4847	20.1437′ RT	HEADWALL

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
1097DITCH	50200	50200	50201	50202	50203
1097DITCH	50210	50210	50211	50212	50213

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DATE

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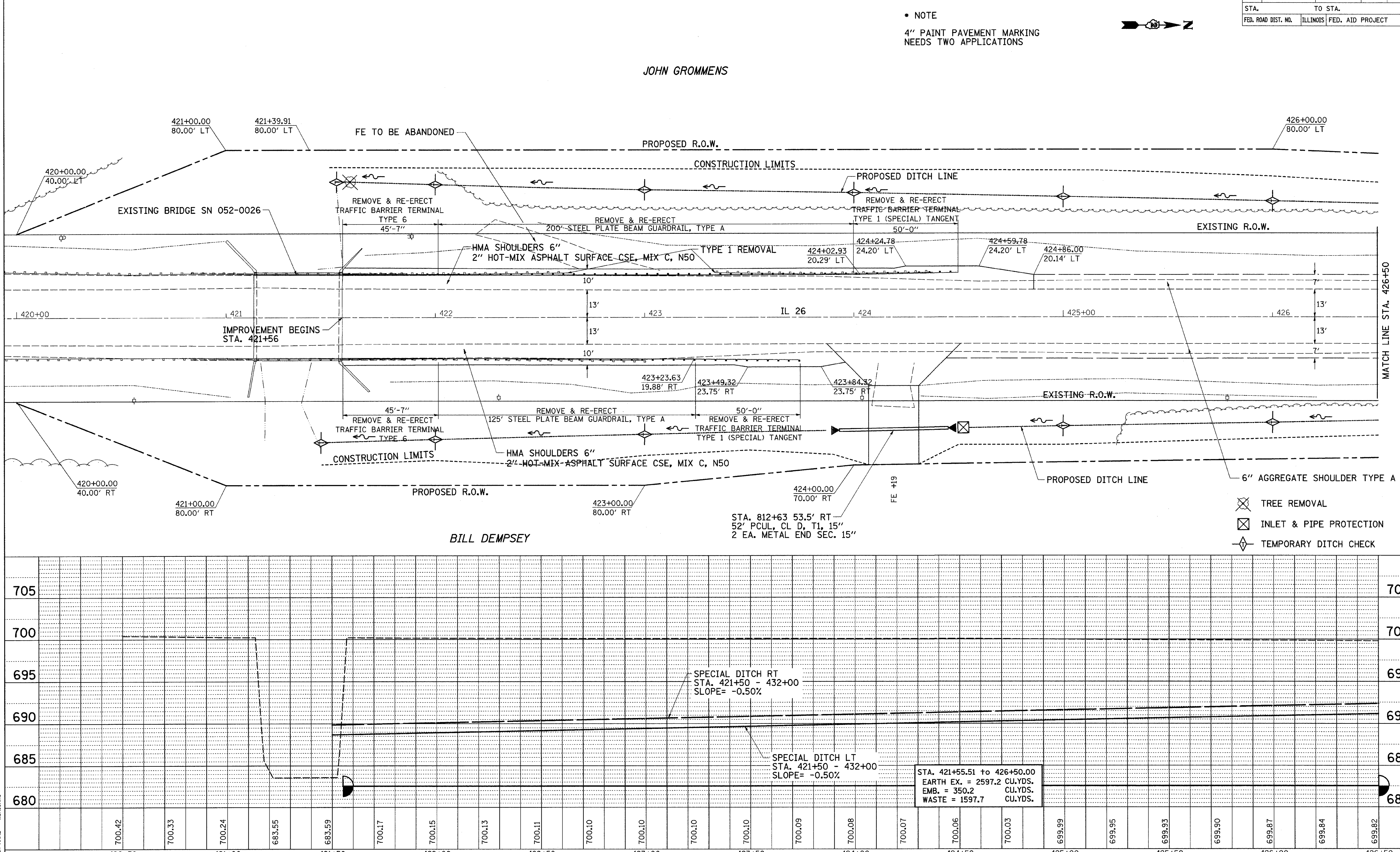
HORIZONTAL & VERTICAL CONTROL

CONTRACT NO. 64C75

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



* NOTE
4" PAINT PAVEMENT MARKING NEEDS TWO APPLICATIONS
Z
JOHN GROMMENS
421+00.00 80.00' LT
421+39.91 80.00' LT
FE TO BE ABANDONED
PROPOSED R.O.W.
426+00.00 80.00' LT
CONSTRUCTION LIMITS
420+00.00 40.00' LT
PROPOSED DITCH LINE
REMOVE & RE-ERECT TRAFFIC BARRIER TERMINAL TYPE 6
45'-7"
REMOVE & RE-ERECT 200' STEEL PLATE BEAM GUARDRAIL, TYPE A
REMOVE & RE-ERECT TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
50'-0"
EXISTING BRIDGE SN 052-0026
EXISTING R.O.W.
HMA SHOULDERS 6"
2" HOT-MIX ASPHALT SURFACE CSE, MIX C, N50
TYPE 1 REMOVAL
424+02.93 20.29' LT
424+24.78 24.20' LT
424+59.78 24.20' LT
424+86.00 20.14' LT
10'
13'
13'
10'
7'
13'
13'
7'
420+00
421
422
423
IL 26
424
425+00
426
MATCH LINE STA. 426+50
IMPROVEMENT BEGINS STA. 421+56
423+23.63 19.88' RT
423+49.32 23.75' RT
423+84.32 23.75' RT
EXISTING R.O.W.
45'-7"
REMOVE & RE-ERECT TRAFFIC BARRIER TERMINAL TYPE 6
REMOVE & RE-ERECT 125' STEEL PLATE BEAM GUARDRAIL, TYPE A
50'-0"
REMOVE & RE-ERECT TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
CONSTRUCTION LIMITS
HMA SHOULDERS 6"
2" HOT-MIX-ASPHALT SURFACE CSE, MIX C, N50
PROPOSED DITCH LINE
6" AGGREGATE SHOULDER TYPE A
420+00.00 40.00' RT
421+00.00 80.00' RT
PROPOSED R.O.W.
423+00.00 80.00' RT
424+00.00 70.00' RT
FE +19
STA. 812+63 53.5' RT
52' PCUL, CL D, T1, 15"
2 EA. METAL END SEC. 15"
BILL DEMPSEY
TREE REMOVAL
INLET & PIPE PROTECTION
TEMPORARY DITCH CHECK
705
700
695
690
685
680
SPECIAL DITCH RT
STA. 421+50 - 432+00
SLOPE= -0.50%
SPECIAL DITCH LT
STA. 421+50 - 432+00
SLOPE= -0.50%
STA. 421+55.51 to 426+50.00
EARTH EX. = 2597.2 CU.YDS.
EMB. = 350.2 CU.YDS.
WASTE = 1597.7 CU.YDS.
700.42
700.33
700.24
683.55
683.59
700.17
700.15
700.13
700.11
700.10
700.10
700.10
700.10
700.09
700.08
700.07
700.06
700.03
699.99
699.95
699.93
699.90
699.87
699.84
699.82
420+50
421+00
421+50
422+00
422+50
423+00
423+50
424+00
424+50
425+00
425+50
426+00
426+50

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHECKED / NOTE BOOK / NO. / BY / DATE

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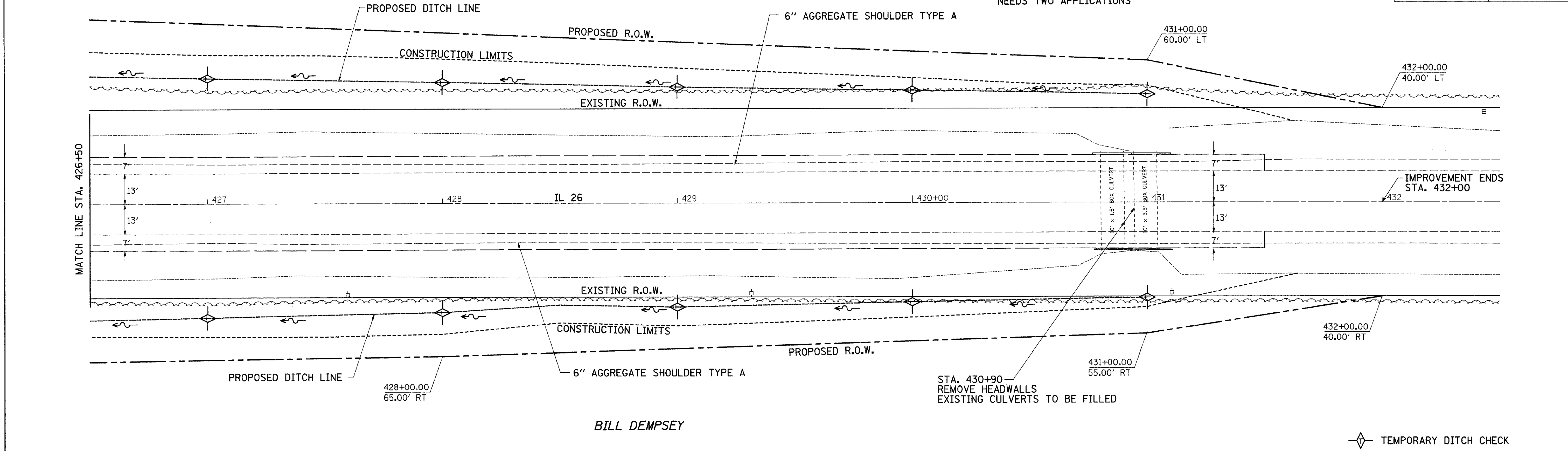
USER NAME = hanson

CONTRACT NO. 64C75

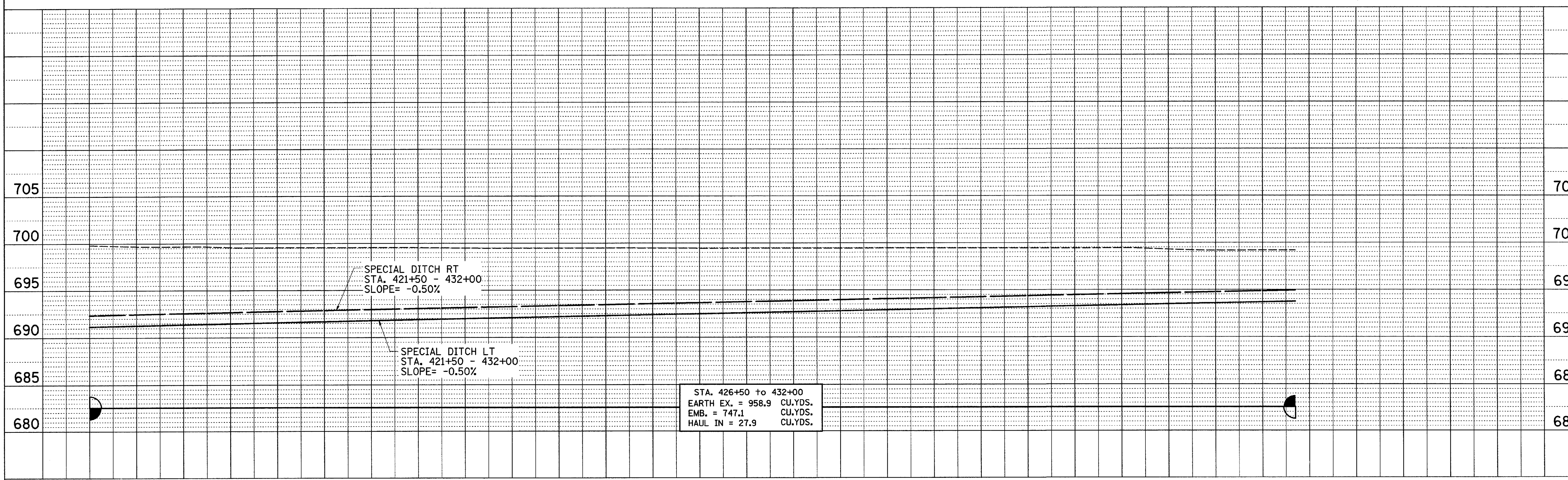
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• NOTE

4" PAINT PAVEMENT MARKING NEEDS TWO APPLICATIONS



JOHN GROMMENS
PROPOSED DITCH LINE
PROPOSED R.O.W.
CONSTRUCTION LIMITS
6" AGGREGATE SHOULDER TYPE A
431+00.00
60.00' LT
432+00.00
40.00' LT
EXISTING R.O.W.
MATCH LINE STA. 426+50
7'
13'
13'
7'
427
428
IL 26
429
430+00
431
432
IMPROVEMENT ENDS
STA. 432+00
EXISTING R.O.W.
CONSTRUCTION LIMITS
PROPOSED R.O.W.
PROPOSED DITCH LINE
6" AGGREGATE SHOULDER TYPE A
428+00.00
65.00' RT
431+00.00
55.00' RT
432+00.00
40.00' RT
STA. 430+90
REMOVE HEADWALLS
EXISTING CULVERTS TO BE FILLED
BILL DEMPSEY
TEMPORARY DITCH CHECK



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PROFILE: NOTE BOOK NO.; SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHK'D; BY; DATE

PLOT DATE = Wed Jan 30 08:30:18 2008
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PLOT SCALE = 20.0000 ' / IN.
USER NAME = hensonke

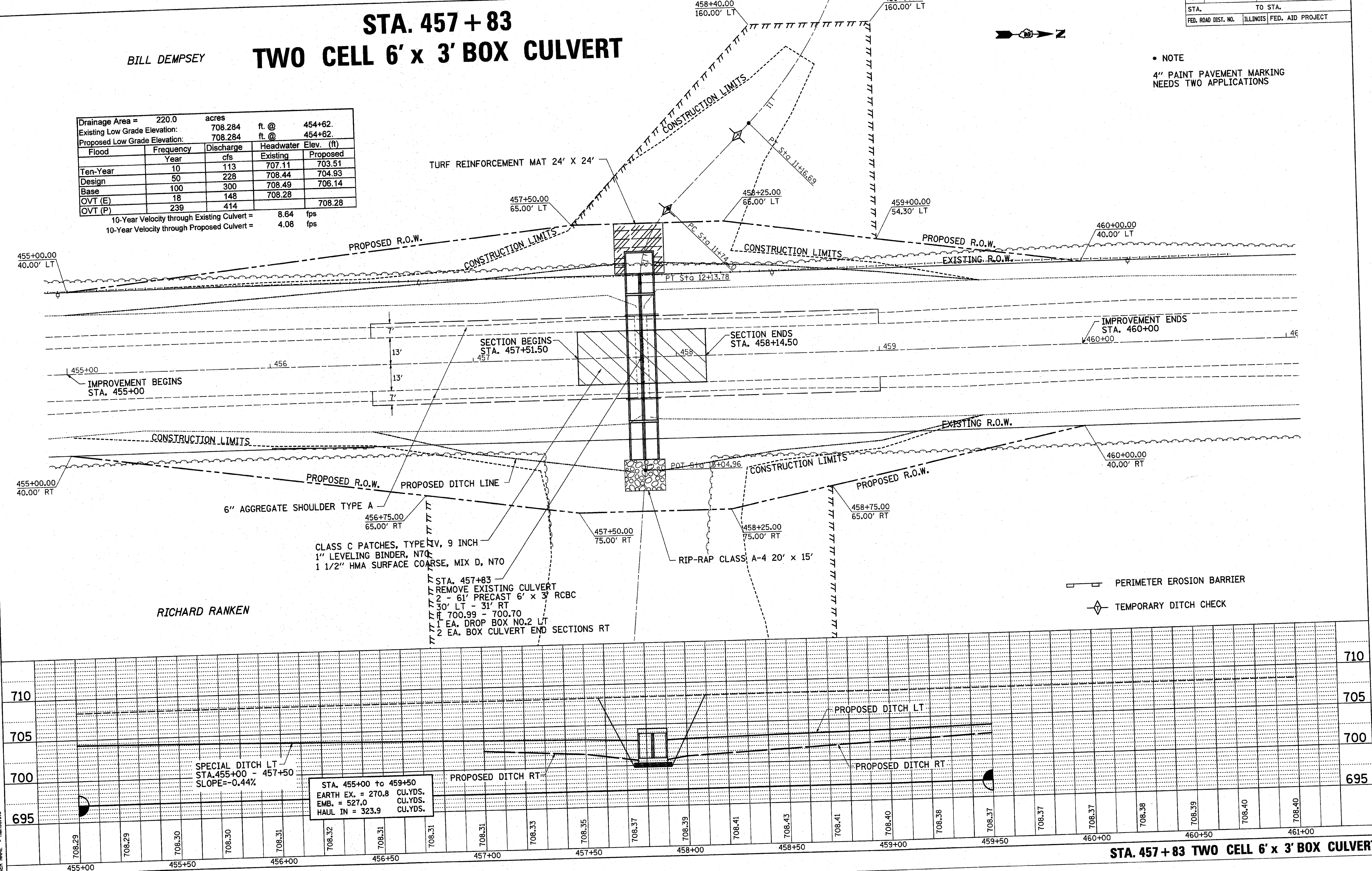
STA. 457 + 83
TWO CELL 6' x 3' BOX CULVERT

Drainage Area =	220.0	acres		
Existing Low Grade Elevation:		708.284	ft. @	454+62.
Proposed Low Grade Elevation:		708.284	ft. @	454+62.

Flood	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Headwater Elev. (ft) Proposed
Ten-Year	10	113	707.11	703.51
Design	50	228	708.44	704.93
Base	100	300	708.49	706.14
OVT (E)	18	148	708.28	
OVT (P)	239	414		708.28

10-Year Velocity through Existing Culvert = 8.64 fps

10-Year Velocity through Proposed Culvert = 4.08 fps



BILL DEMPSEY
RICHARD RANKEN
• NOTE
4" PAINT PAVEMENT MARKING NEEDS TWO APPLICATIONS
TURF REINFORCEMENT MAT 24' X 24'
CONSTRUCTION LIMITS
PROPOSED R.O.W.
EXISTING R.O.W.
458+40.00 160.00' LT
160.00' LT
457+50.00 65.00' LT
458+25.00 65.00' LT
459+00.00 54.30' LT
460+00.00 40.00' LT
455+00.00 40.00' LT
PT Sta 11+16.69
PC Sta 11+74.
PT Sta 12+13.78
SECTION BEGINS STA. 457+51.50
SECTION ENDS STA. 458+14.50
IMPROVEMENT BEGINS STA. 455+00
IMPROVEMENT ENDS STA. 460+00
455+00
456
457
458
459
460+00
7'
13'
13'
7'
455+00.00 40.00' RT
460+00.00 40.00' RT
POT Sta 8+04.96
PROPOSED DITCH LINE
6" AGGREGATE SHOULDER TYPE A
456+75.00 65.00' RT
457+50.00 75.00' RT
458+25.00 75.00' RT
458+75.00 65.00' RT
CLASS C PATCHES, TYPE IV, 9 INCH
1" LEVELING BINDER, N70
1 1/2" HMA SURFACE COARSE, MIX D, N70
RIP-RAP CLASS A-4 20' x 15'
STA. 457+83
REMOVE EXISTING CULVERT
2 - 61' PRECAST 6' x 3' RCBC
30' LT - 31' RT
℄ 700.99 - 700.70
1 EA. DROP BOX NO.2 LT
2 EA. BOX CULVERT END SECTIONS RT
PERIMETER EROSION BARRIER
TEMPORARY DITCH CHECK
PROPOSED DITCH LT
PROPOSED DITCH RT
SPECIAL DITCH LT
STA.455+00 - 457+50
SLOPE=-0.44%
STA. 455+00 to 459+50
EARTH EX. = 270.8 CU.YDS.
EMB. = 527.0 CU.YDS.
HAUL IN = 323.9 CU.YDS.
710
705
700
695
708.29
708.29
708.30
708.30
708.31
708.32
708.31
708.31
708.31
708.33
708.35
708.37
708.39
708.41
708.43
708.41
708.40
708.38
708.37
708.37
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708.38
708.39
708.40
708.40
455+00
455+50
456+00
456+50
457+00
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458+00
458+50
459+00
459+50
460+00
460+50
461+00

STA. 457 + 83 TWO CELL 6' x 3' BOX CULVERT

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

PLAN | NOTE BOOK | NO. | SURVEYED | PLOTTED | ALIGNMENT CHECKED | R/L OF WAY CHECKED | CADD FILE NAME | BY | DATE

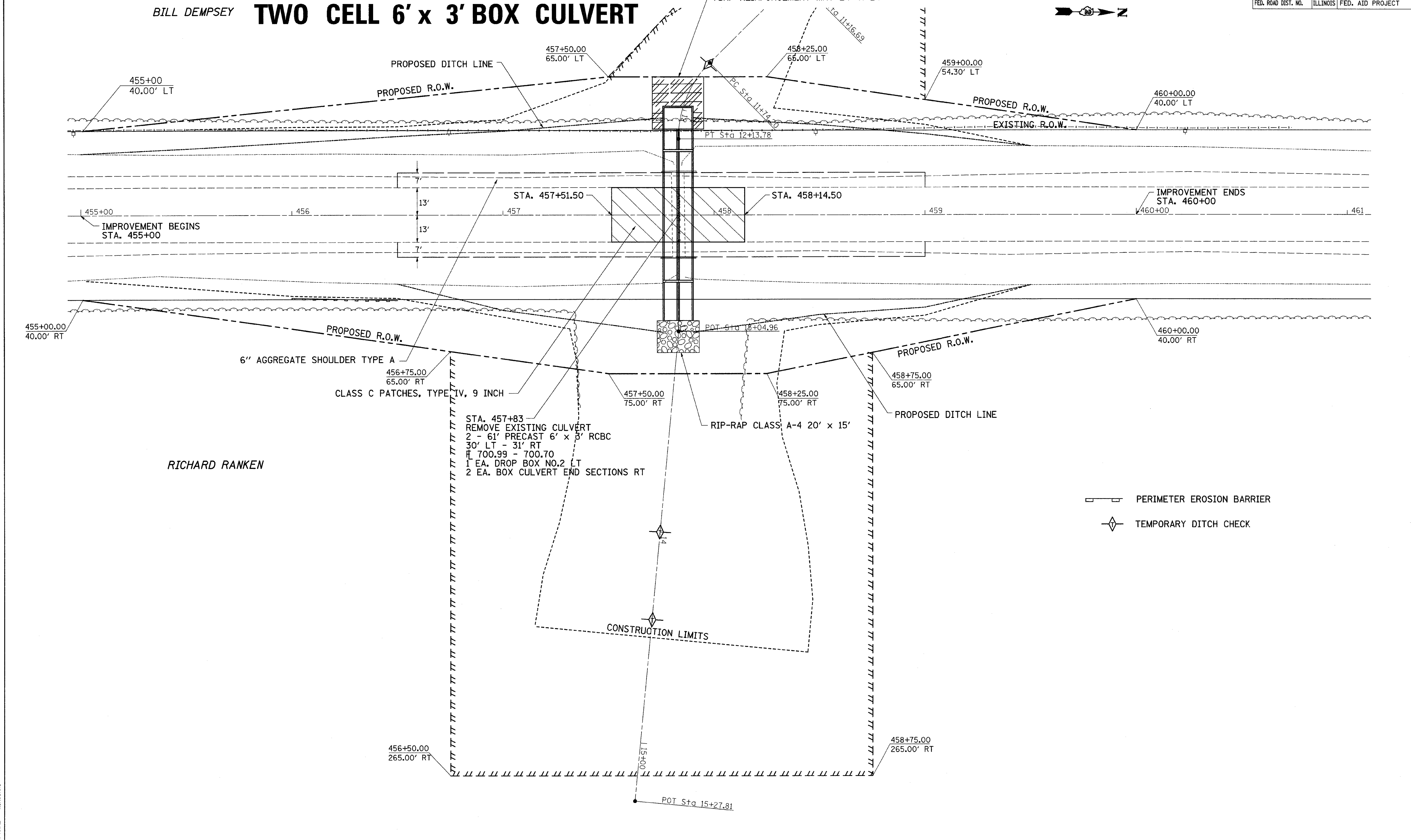
PROFILE | NOTE BOOK | NO. | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATIONS CHKD | BY | DATE

PLOT DATE = Thu Jan 24 15:27:49 2008
PLOT SCALE = 20.0000 ' / IN.

STA. 457 + 83
TWO CELL 6' x 3' BOX CULVERT

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	15

CONTRACT NO. 64C75



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USER NAME = hensonke

STA. 457 + 83 TWO CELL 6' x 3' BOX CULVERT

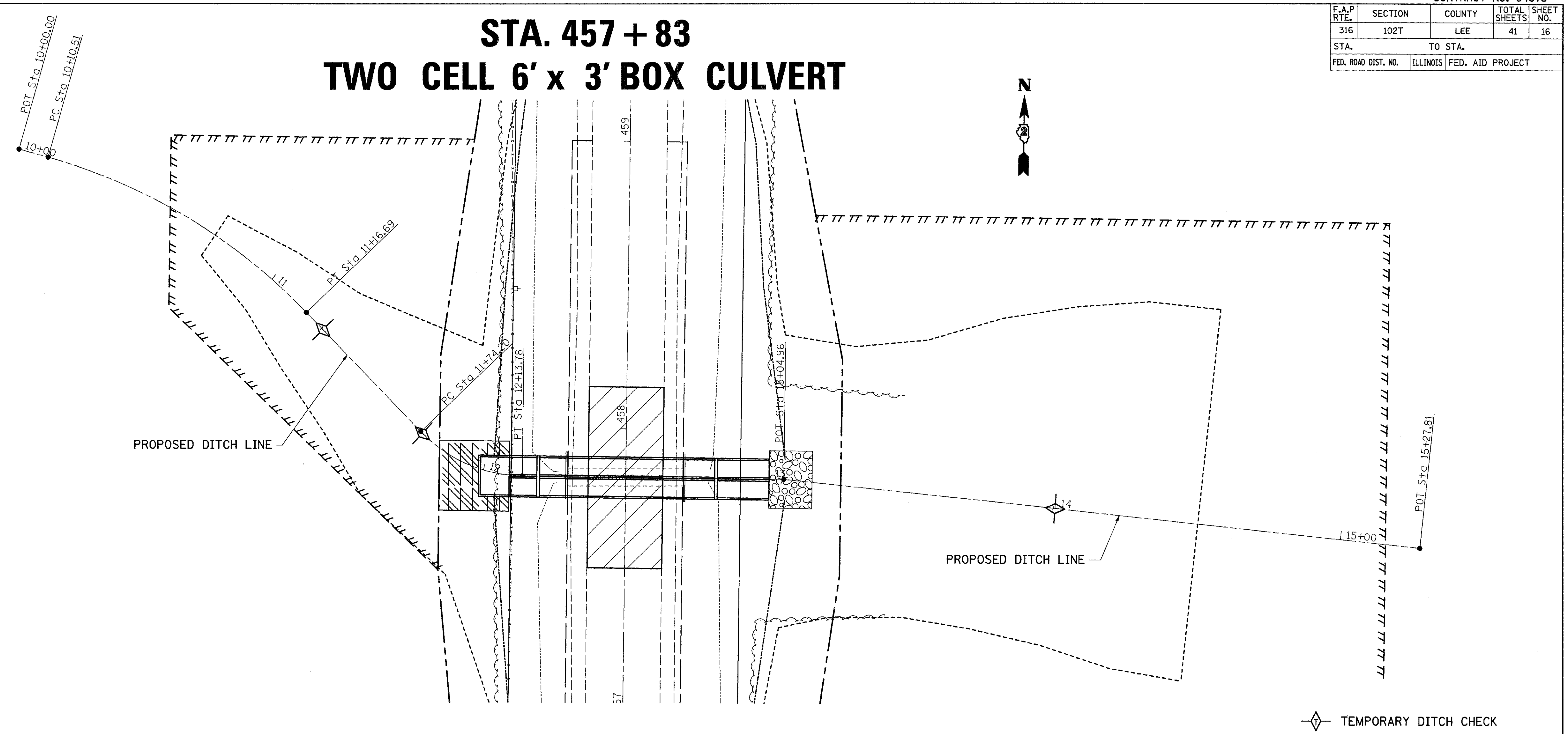
CONTRACT NO. 64C75

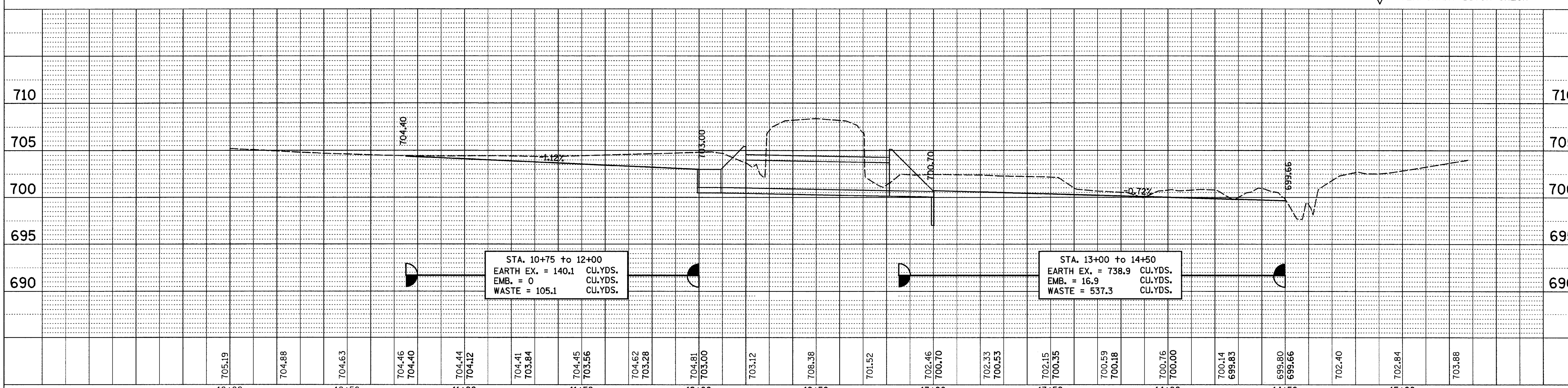
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STA. 457 + 83
TWO CELL 6′ x 3′ BOX CULVERT

EXIST. CURVE 50200
PI STA. = 10+64.88
Δ = 30° 25′ 07″ (RT)
D = 28° 38′ 52″
R = 200.00′
T = 54.37′
L = 106.18′
E = 7.26′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 10+10.51
P.T. STA. = 11+16.69

EXIST. CURVE 50210
PI STA. = 11+95.09
Δ = 45° 21′ 21″ (LT)
D = 114° 35′ 30″
R = 50.00′
T = 20.89′
L = 39.58′
E = 4.19′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 11+74.20
P.T. STA. = 12+13.78





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PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD — NOTE BOOK NO. — BY — DATE

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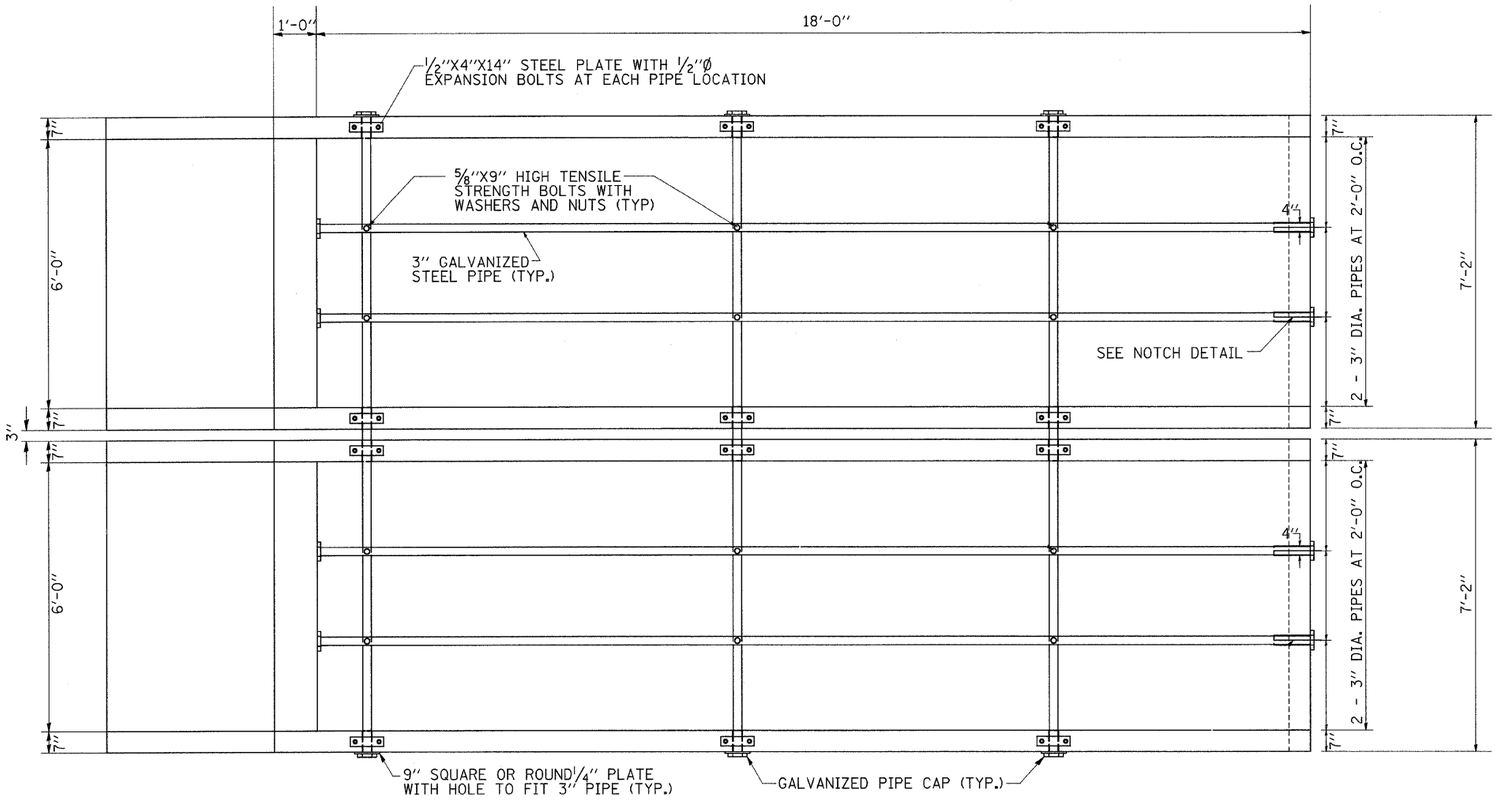
PLOT SCALE = 20.0000 ' / IN.
USER NAME = hensonke

STA. 457 + 83 TWO CELL 6′ x 3′ BOX CULVERT

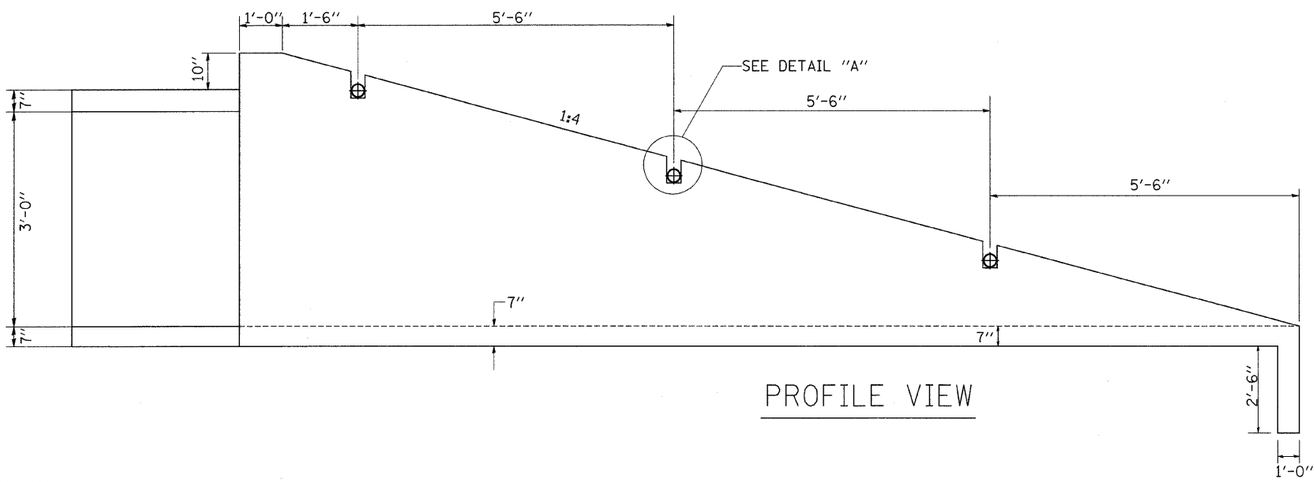
CONTRACT NO. 64C75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

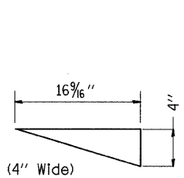
BOX CULVERT END SECTIONS



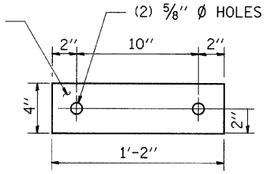
PLAN VIEW



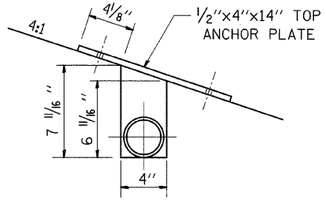
PROFILE VIEW



NOTCH DETAIL



TOP ANCHOR PLATE



DETAIL "A"

BILL OF MATERIALS
(FOR ONE EXTENSION)

DESCRIPTION	UNIT	QTY.
3" Galvanized Steel Pipe @ 4		18'-0"
3" Galvanized Steel Pipe @ 3		14'-11"
3" Galv Pipe Caps	EACH	14
1/4" Galv. Stl. Plate (9" Nominal)	EACH	6
1/2"x4"x14" Galv. Steel Plate	EACH	12
5/8"x9" Galv. Steel Bolts	EACH	12
Expansion Bolts 1/2"Ø	EACH	24

GENERAL NOTES:

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

Bolts, Nuts, and Washers shall be in accordance with Article 1006.27(b), 1006.27(f) of the standard specification and shall be galvanized.

The contract unit price "Each" for Grated Culvert Extension No. 2 shall be of precast construction. It shall also include the Class SI Concrete for the Collar, Galvinized Pipe, Bolts, Nuts, Washers, Steel Plates.

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

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

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION
SEE CULVERT LOCATION PLANS FOR MORE INFORMATION

PLOT DATE = Thu Jan 24 15:32:54 2008
FILE NAME = c:\projects\p200687\d200687culv.dgn
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USER NAME = hernandw

DROP BOX NO. 1

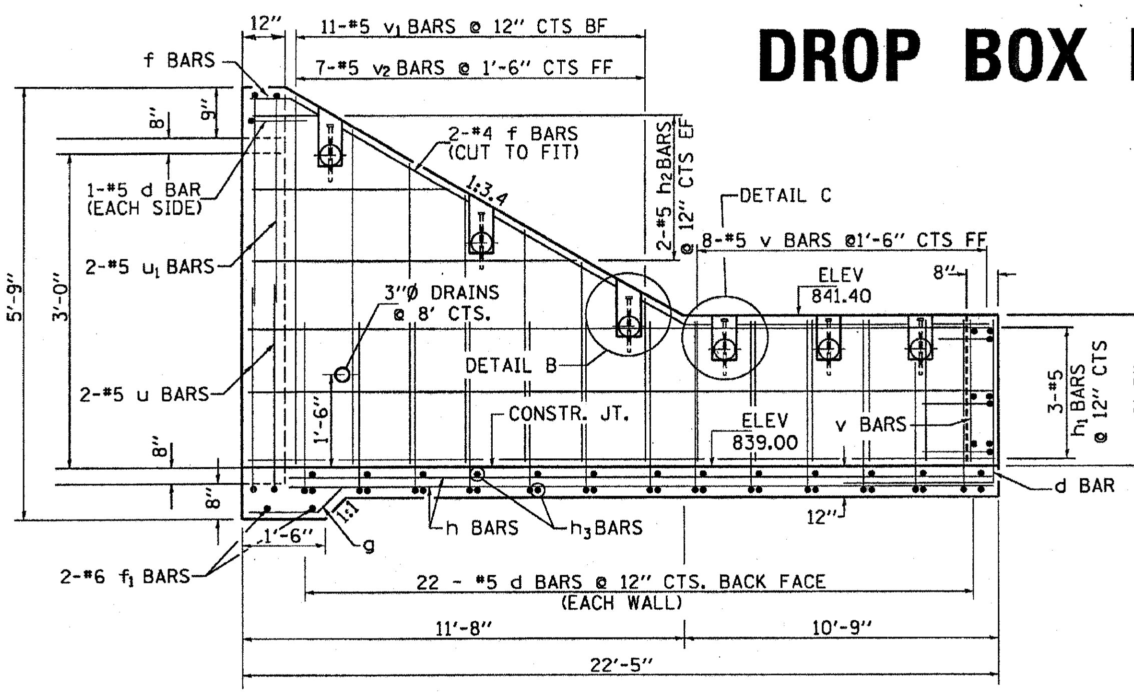
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	102T	LEE	41	18

CONTRACT NO.

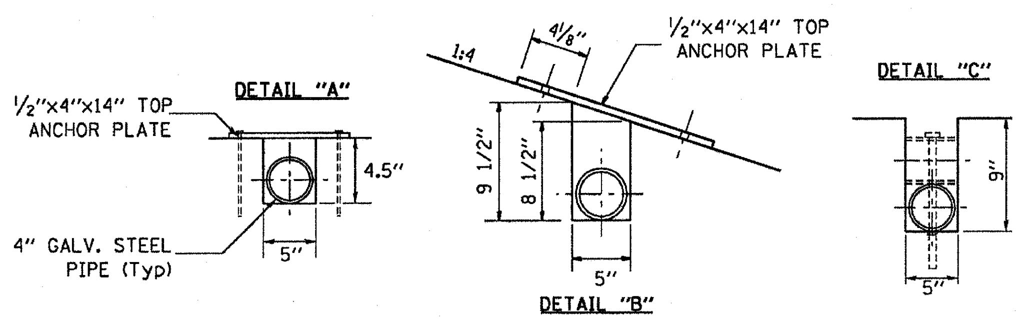
Contract # 64c75

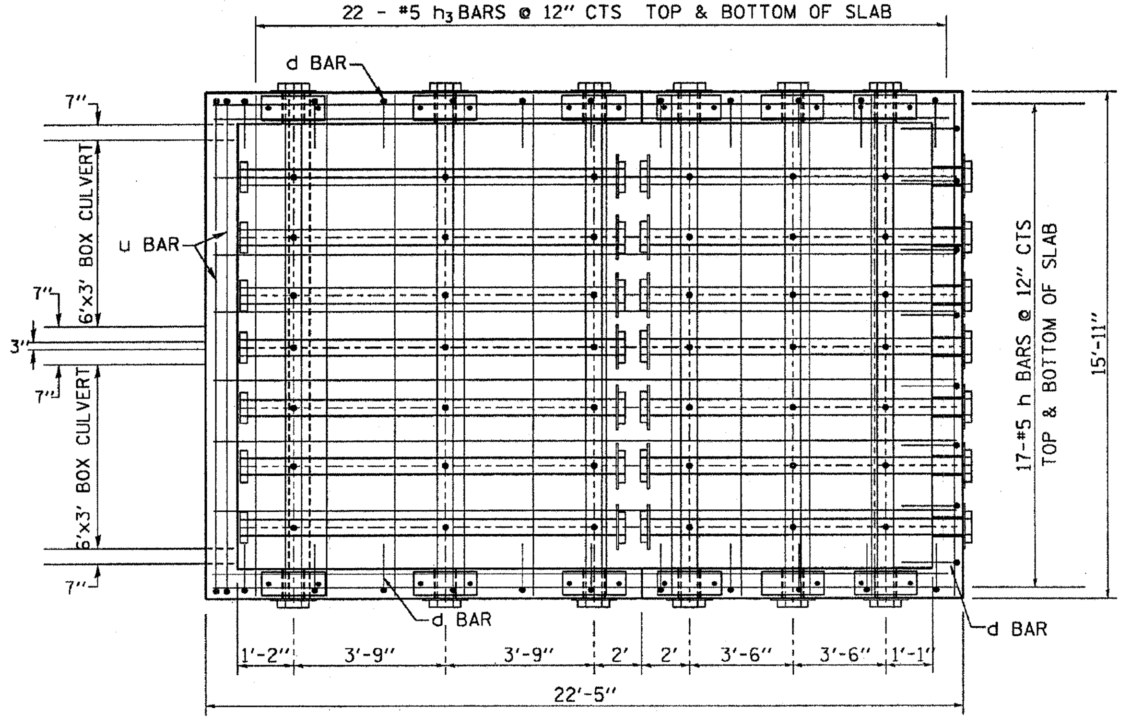
STA.

FED. AID PROJECT

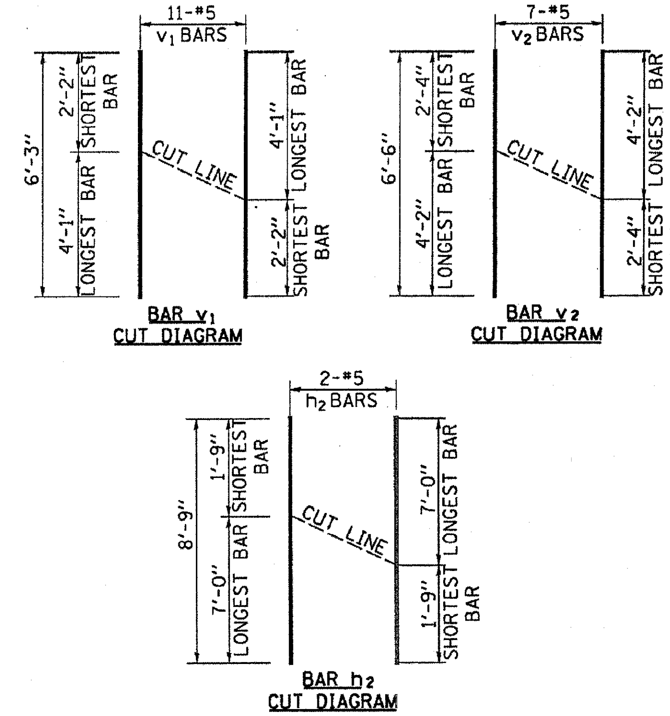


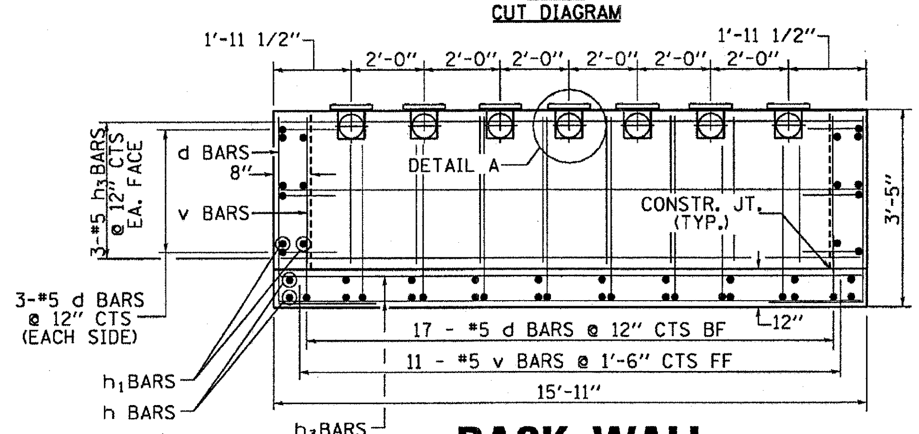
SIDEWALLS



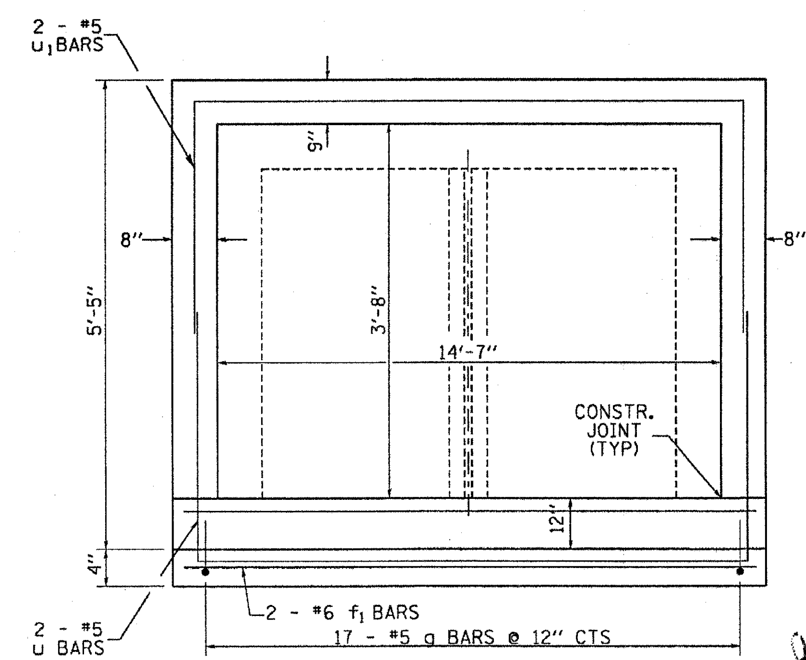


BOTTOM SLAB

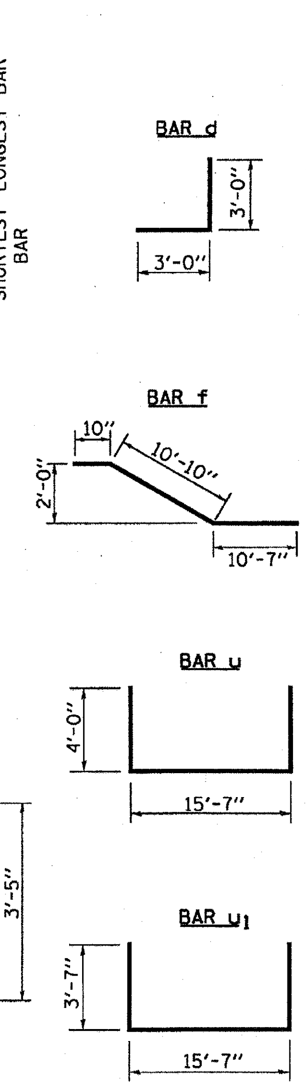




BACK WALL



HEADWALL



BILL OF MATERIAL

(For Information Only)

BAR	SIZE	NO.	LENGTH	SHAPE
d	5	69	6'-0"	
f	4	4	22'-3"	
f1	6	2	15'-8"	
g	5	17	2'-0"	
h	5	34	21'-2"	
h1	5	12	22'-2"	
h2	5	4	8'-9"	
h3	5	60	15'-8"	
v	5	27	2'-2"	
v1	5	11	6'-3"	
v2	4	7	6'-6"	
u	5	2	24'-7"	
u1	5	2	22'-9"	

DESCRIPTION	UNIT	QTY
CONCRETE STRUCTURES	CU YD	17.5
REINFORCEMENT BARS	LB	2,900

DESCRIPTION	UNIT	QTY.
4" GALVANIZED STEEL PIPE	6@	16'-3"
	7@	10'-9"
	7@	10'-11"
4" GALVANIZED PIPE CAPS	EACH	40
1/4" GALVANIZED STEEL PLATE (9" NOMINAL)	EACH	19
1/2"x4"x14" GALVANIZED STEEL PLATE	EACH	19
5/8"x9" GALVANIZED STEEL BOLTS	EACH	42

GENERAL NOTES

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

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

Contractor shall field verify Galvanized pipe length

Exposed edges shall be beveled 3/4 ".

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

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

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

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

See Plan and Profile Sheet for more information.
See Cross Section Sheet for more information.

JAMES D. HAMILTON 081-003669 LICENSED STRUCTURAL ENGINEER OF JACKSONVILLE ILLINOIS

James D. Hamilton
1/24/2008
Expires 4/30/2008

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.

DATE

DRAWN BY

CHECKED BY

DROP BOX NO. 1

PLOT DATE = 1/23/2008
FILE NAME = V:\Bridge\2244-16\end section & culvert ... DT.dgn
PLOT SCALE = 184.7248 ' / IN.
USER NAME = bnebel

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	19
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BORING LOGS

Illinois Department of Transportation — SOIL BORING LOG (Page 1 of 2)

Division of Highways
Illinois Department of Transportation/D-2

Page 1 of 2
Date 9/14/06

ROUTE FAP 316 DESCRIPTION P92-006-07 Box culvert on IL 26, .2 m. N. of Amboy Road LOGGED BY W. Garza

SECTION 102T LOCATION Marion Twp. - 21 NE, SEC. , TWP. 20N, RNG. 9E

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

STRUCT. NO. 052-1027
Station 457+04

BORING NO. B-1a
Station 456+98
Offset 14.00ft Lt CL
Ground Surface Elev. 99.60 ft

Surface Water Elev. 95.00 ft
Stream Bed Elev. 95.00 ft

Groundwater Elev.:
First Encounter 89.6 ft ▼
Upon Completion Dry ft
After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Shoulder Rock					
SOFT brown LOAM				0.3 P	12.0
	97.10				
MEDIUM brown SANDY LOAM			1		
			2	0.8	16.0
	95.60		3	P	
		-5			
MEDIUM light gray SILTY CLAY LOAM			1		
			2	0.6	22.0
			3	P	
	92.60				
LOOSE/MEDIUM light gray clean medium coarse SAND, moist			3		
			4		
	90.60		6		
		▼ -10			
MEDIUM light gray fine SAND			6		
			12		
	88.10		16		
MEDIUM olive-green dirty SAND with medium GRAVEL			1		
			5		
			9		
	85.10				
		-15			
STIFF tan LOAM TILL			1		
			3	1.4	14.0
	83.10		4	B	
STIFF tan/olive-green LOAM TILL			3		
			4	2.0	14.0
	80.60		8	P	
		-20			

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF tan SILTY LOAM TILL			4		
			6	2.3	13.0
	78.10		8	B	
STIFF gray SANDY LOAM TILL			4		
			7	1.1	8.0
	75.60		7	S	
		-25			
STIFF gray SANDY LOAM TILL with SAND lens			4		
			6	1.8	12.0
	73.10		10	S	
VERY STIFF gray SILTY CLAY TILL			10		
			15	3.2	13.0
	70.60		15	P	
		-30			
STIFF gray SANDY LOAM TILL			2		
			8	1.3	12.0
	68.10		12	S	
VERY STIFF gray SILTY CLAY LOAM TILL			5		
			6	2.5	10.0
	65.60		10	B	
		-35			
STIFF gray SANDY LOAM TILL			10		
			13	1.6	9.0
	63.10		18	B	
VERY STIFF gray LOAM TILL			5		
			6	2.9	12.0
	60.60		11	B	
		-40			

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 — SOIL BORING LOG (Page 2 of 2)

Division of Highways
Illinois Department of Transportation/D-2

Page 2 of 2
Date 9/14/06

ROUTE FAP 316 DESCRIPTION P92-006-07 Box culvert on IL 26, .2 m. N. of Amboy Road LOGGED BY W. Garza

SECTION 102T LOCATION Marion Twp. - 21 NE, SEC. , TWP. 20N, RNG. 9E

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

STRUCT. NO. 052-1027
Station 457+04

BORING NO. B-1a
Station 456+98
Offset 14.00ft Lt CL
Ground Surface Elev. 99.60 ft

Surface Water Elev. 95.00 ft
Stream Bed Elev. 95.00 ft

Groundwater Elev.:
First Encounter 89.6 ft ▼
Upon Completion Dry ft
After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF gray SILTY CLAY LOAM TILL			6		
			9	2.5	13.0
	58.10		13	B	
End of Boring					
		-45			
		-50			
		-55			
		-60			

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

BBS, from 137 (Rev. 8-99)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

BORING LOGS

PLOT DATE = Thu Jan 24 15:34:08 2008
FILE NAME = C:\Projects\p200607\d00607logs.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hensonke

BORING LOGS

Illinois Department of Transportation — SOIL BORING LOG (B-1b)

Division of Highways
Illinois Department of Transportation/D-2

Page 1 of 1
Date 9/18/06

ROUTE FAP 316 DESCRIPTION P92-006-07 Box culvert on IL 26, .5 m. S. of Amboy Road LOGGED BY W. Garza

SECTION 102T LOCATION Marion Twp. - 21SE, SEC. , TWP. 20N, RNG. 9E

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

STRUCT. NO. 052-1026
Station 430+15

BORING NO. B-1b
Station 429+91
Offset 15.00ft Lt CL
Ground Surface Elev. 99.20 ft

Surface Water Elev. ___ ft
Stream Bed Elev. 94.50 ft

Groundwater Elev.:
First Encounter 86.7 ft ▼
Upon Completion Wash ft
After ___ Hrs. ___ ft

Description	Bottom Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Shoulder					
STIFF brown LOAM	96.70			1.0 P	11.0
MEDIUM brown SILTY CLAY LOAM	95.20		3 3 5	0.8 P	18.0
STIFF black SILTY CLAY with 15% ORGANICS	92.70	-5	2 3 6	1.1 B	41.0
STIFF brown SANDY LOAM	89.70		2 1 3	1.1 B	22.0
LOOSE gray/tan moist SAND	87.70	-10	2 3 5		
MEDIUM gray fine SAND ▼	85.20		0 4 7		
MEDIUM gray fine SAND	82.70	-15	6 8 9		
MEDIUM gray clean medium coarse SAND with SILTY LOAM	79.70	-20	6 8 11		

Description	Bottom Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Wash MEDIUM gray fine SAND with SILT lens	77.20		7 9 9	0.6 P	25.0
VERY DENSE gray medium SAND with GRAVEL	75.20		15 25 48		
MEDIUM gray SAND & GRAVEL	72.70	-25	16 18 7		
End of Boring		-30 -35 -40			

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 — SOIL BORING LOG (B-2a)

Division of Highways
Illinois Department of Transportation/D-2

Page 1 of 1
Date 9/14/06

ROUTE FAP 316 DESCRIPTION P92-006-07 Box culvert on IL 26, .2 m. N. of Amboy Road LOGGED BY W. Garza

SECTION 102T LOCATION Marion Twp. - 21 NE, SEC. , TWP. 20N, RNG. 9E

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

STRUCT. NO. 052-1027
Station 457+04

BORING NO. B-2a
Station 457+14
Offset 14.00ft Rt CL
Ground Surface Elev. 99.60 ft

Surface Water Elev. ___ ft
Stream Bed Elev. 95.00 ft

Groundwater Elev.:
First Encounter 89.6 ft ▼
Upon Completion Wash ft
After ___ Hrs. ___ ft

Description	Bottom Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Shoulder Rock					
SOFT brown LOAM	97.10			0.4 P	14.0
LOOSE brown dirty fine SAND	95.60		3 3 2		12.0
STIFF black LOAM	92.60	-5	1 2 3	1.3 P	27.0
LOOSE gray moist fine SAND	90.60		1 2 6		
MEDIUM gray fine SAND	88.10	▼ -10	2 6 7		
MEDIUM gray clean medium coarse SAND	85.60		7 10 12		
Wash MEDIUM gray clean medium coarse SAND	83.10	-15	4 9 10		
MEDIUM gray SAND & GRAVEL	80.10	-20	6 10 10		

Description	Bottom Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF gray SILTY CLAY LOAM TILL	78.10		4 6 8	1.6 B	12.0
VERY STIFF gray SILTY CLAY LOAM TILL	75.60		10 15 16	2.6 B	9.0
VERY STIFF gray LOAM TILL	73.10	-25	6 10 10	3.9 B	11.0
HARD gray LOAM TILL	70.60		6 11 14	5.0 B	11.0
STIFF gray SILTY CLAY LOAM TILL	68.10	-30	5 7 10	2.0 B	11.0
VERY STIFF gray SILTY CLAY LOAM TILL	65.60		4 8 11	2.7 B	12.0
End of Boring		-35 -40			

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

BBS, from 137 (Rev. 8-99)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = Thu Jan 24 15:34:08 2008
FILE NAME = C:\Projects\p2006807\d006807logs.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hensonke

CONTRACT NO. 64C75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BORING LOGS

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 9/18/06

ROUTE FAP 316 DESCRIPTION P92-006-07 Box culvert on IL 26, .5 m. S. of Amboy Road LOGGED BY W. Garza

SECTION 102T LOCATION Marion Twp. - 21SE, SEC. , TWP. 20N, RNG. 9E

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

STRUCT. NO. 052-1026
Station 430+15

BORING NO. B-2b
Station 430+37
Offset 14.00ft Rt CL
Ground Surface Elev. 99.30 ft

Surface Water Elev. ft
Stream Bed Elev. 94.50 ft

Groundwater Elev.:
First Encounter 86.8 ft ▼
Upon Completion Wash ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Shoulder				
			0.5	13.0
MEDIUM brown SANDY LOAM			P	
	96.80			
		4		
VERY STIFF dark brown CLAY LOAM		4	3.5	13.0
	95.30	6	B	
	-5			
		2		
VERY STIFF black SILTY CLAY with 11% ORGANICS		4	2.1	43.0
	92.80	5	P	
		1		
STIFF brown LOAM with SAND lens		2	1.1	21.0
	90.30	3	B	
	-10			
		1		
SOFT gray SILTY LOAM		2	0.4	26.0
	87.30	3	P	
	▼			
		1		
MEDIUM gray fine SAND		4		
	85.30	10		
	-15			
		4		
MEDIUM gray dirty medium SAND		11		
	82.80	17		
		1		
MEDIUM gray clean medium coarse SAND		5		
	80.30	9		
	-20			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM gray fine SAND		5		
		7		
	77.80	12		
Wash		14		
VERY DENSE gray SAND & GRAVEL		21		
	74.80	30		
	-25			
MEDIUM gray medium SAND with SILTY CLAY TILL bottom 4"		6		
		5	2.5	13.0
	72.80	6	P	
STIFF gray SILTY CLAY TILL		0		
		3	1.4	12.0
	70.30	5	B	
	-30			
		3		
STIFF gray SILTY CLAY TILL		5	1.2	13.0
	67.80	7	B	
		4		
VERY STIFF gray SILTY CLAY TILL		7	3.5	12.0
	65.30	12	B	
End of Boring				
	-35			
	-40			

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

BBS, from 137 (Rev. 8-99)

REVISIONS	
NAME	DATE

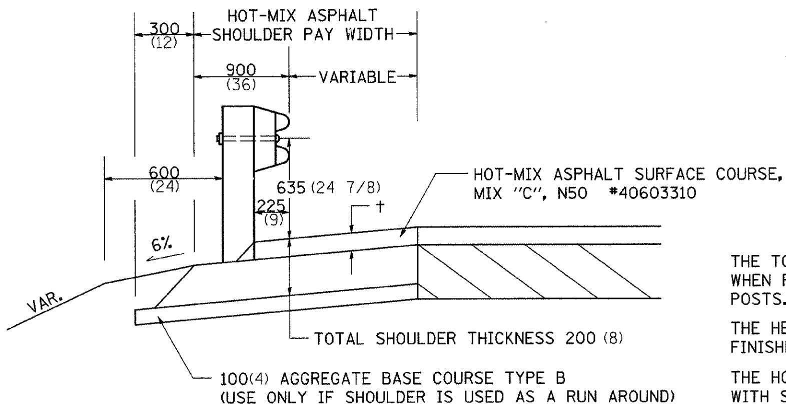
ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = Thu Jan 24 15:34:09 2008
FILE NAME = D:\Projects\c206507\d0506710gs.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = Hernorko

BORING LOGS

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL



† = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET **525** (21) FROM THE FINISHED SURFACE.

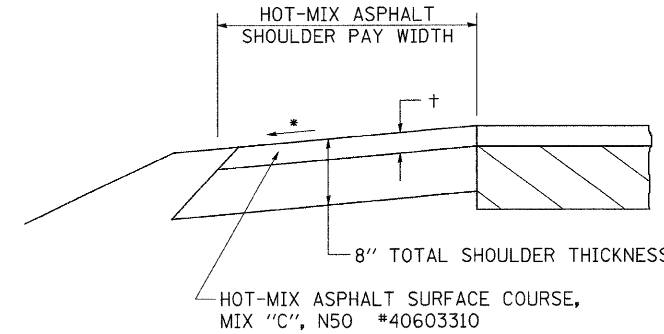
THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE METER (SQUARE YARD) FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

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

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL 23.4

REVISED 10-06-06

HOT-MIX ASPHALT SHOULDER



† = SEE TYPICAL SECTIONS FOR THICKNESS

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

GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

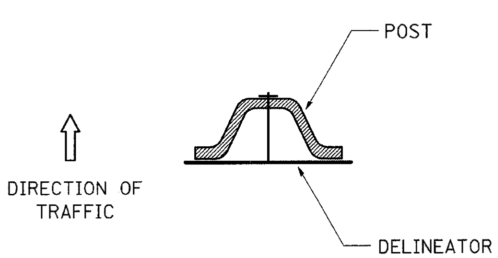
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

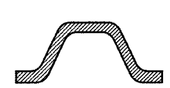
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

HOT-MIX ASPHALT SHOULDER 23.4a

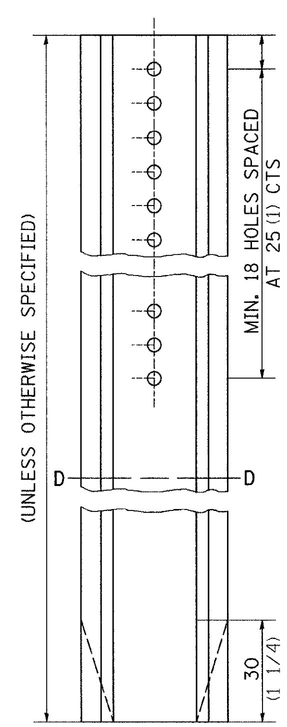
REVISED 10-06-06

DELINEATOR AND POST ORIENTATION





SECTION D-D



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

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

DELINEATOR AND POST ORIENTATION 37.4

REVISED 1-31-00

LETTERING FOR NAME PLATE

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

SEE STD. 515001

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

LETTERING FOR NAME PLATE 89.4

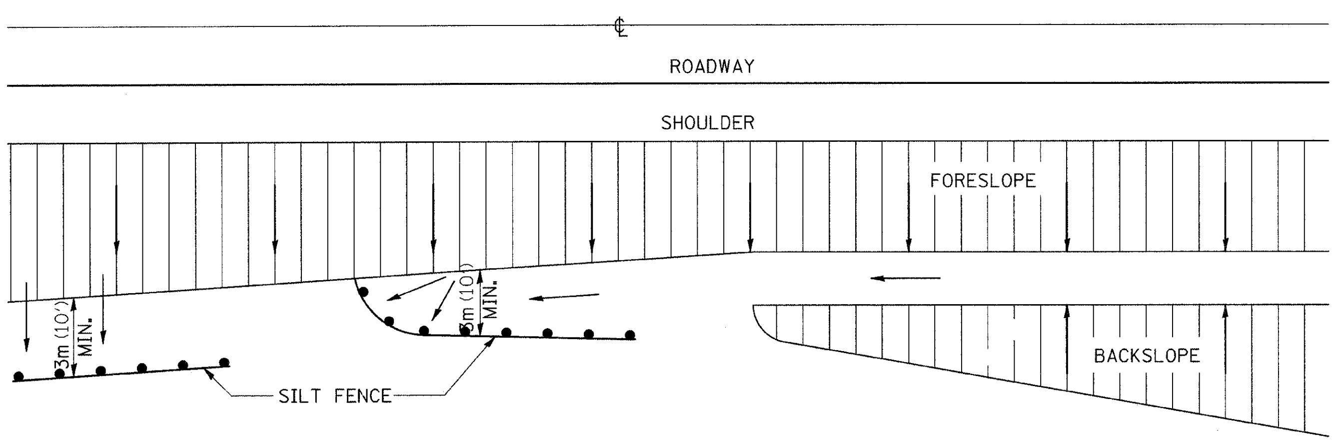
REVISED 10-15-04

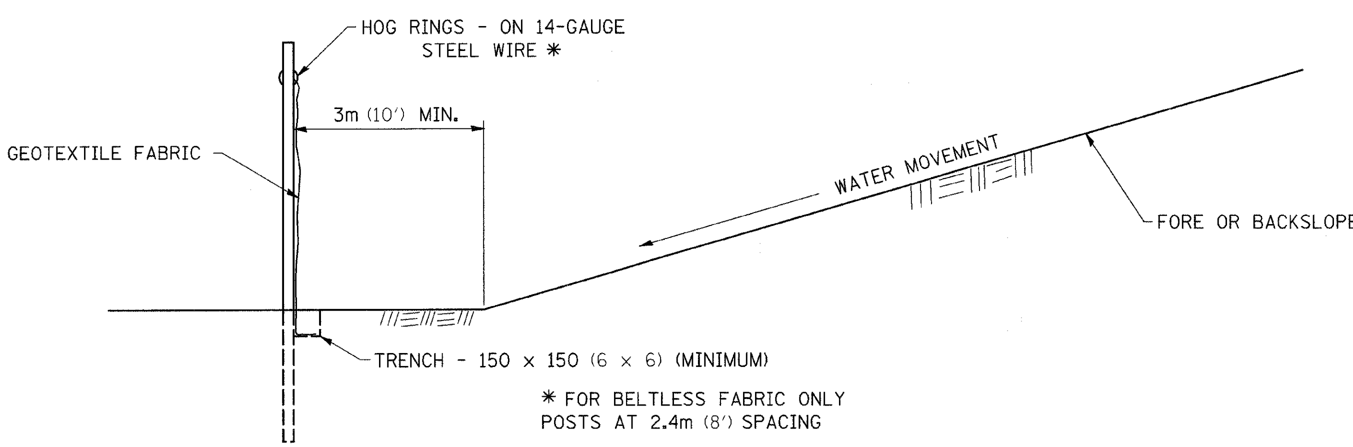
PLOT DATE = Thu Jan 24 15:35:26 2008
FILE NAME = C:\Projects\p2006607\d006607spl.dgn
PLOT SCALE = 50.0000 ' / IN.
REFERENCE = REF

CONTRACT NO. 64C75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	40	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL DETAILS FOR SILT FENCE

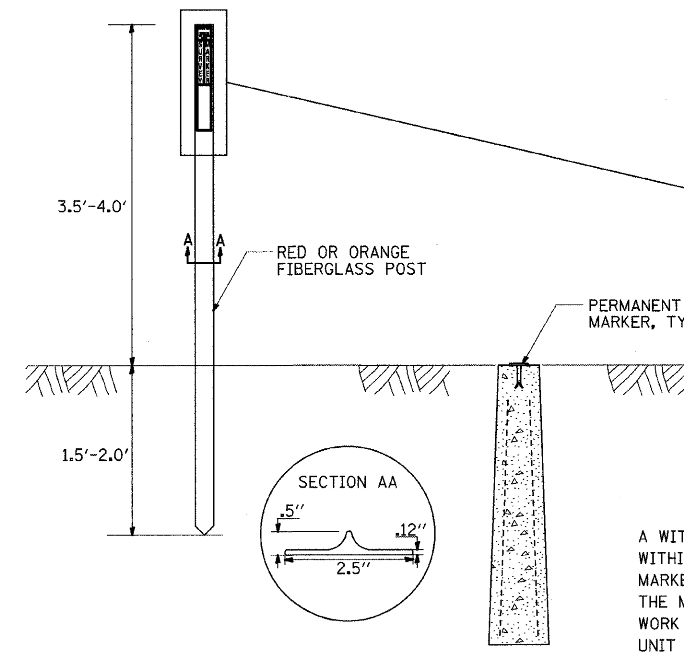


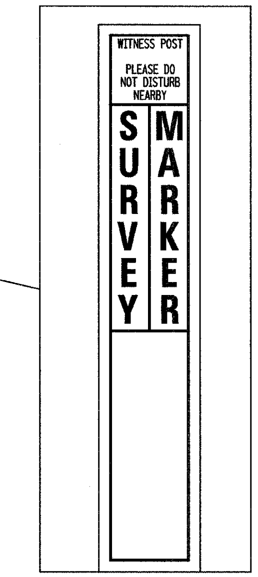


DETAILS OF SILT FENCE

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

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II

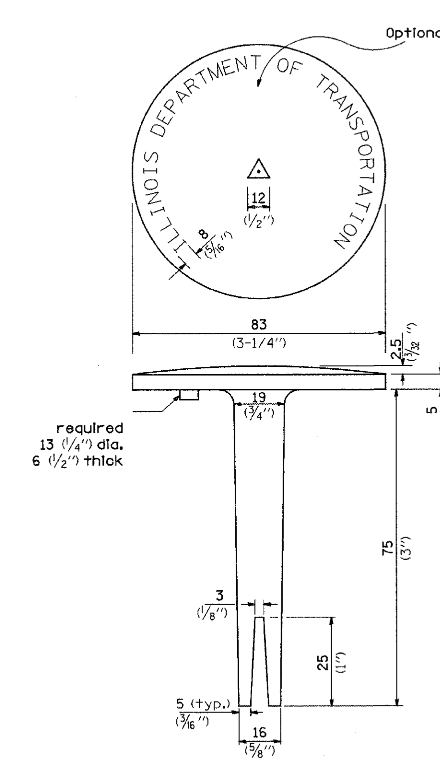




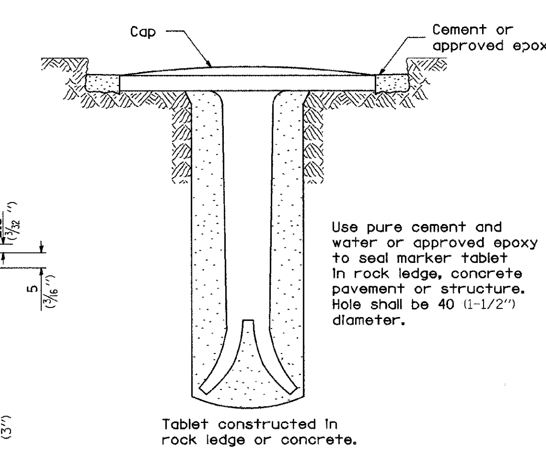
GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

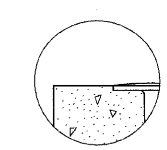
PERMANENT SURVEY MARKERS, TYPE II



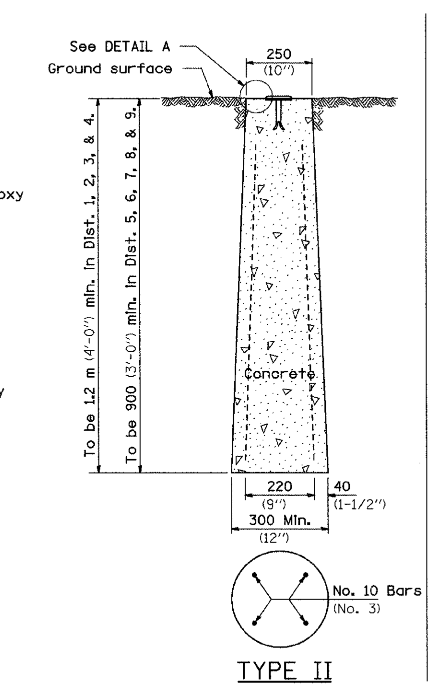
BRASS OR ALUMINUM TABLET



TYPE II



DETAIL A



TYPE II

CAST-IN-PLACE MARKER

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

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PLOT SCALE = 50.0000 ' / IN.
REFERENCE = REF

CONTRACT NO. 64C75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	40	24
STA.		TO STA.		
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 FILLING A DOUBLE BOX CULVERT, REPLACING A 6' x3' BOX CULVERT WITH A DOUBLE 6' x 3', MINOR DITCHING HOT MIX ASPHALT AND OR AGGREGATE SHOULDES, AND GUARDRAIL WORK.

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

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 4.27 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 1.99 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 2.68 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

RUN OFF FROM THIS PROJECT ARE UN-NAMED TRIBUTARY TO THE GREEN RIVER, THEN TO THE ROCK RIVER AND FINALLY TO THE MISSIPPI RIVER.

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

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

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

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REFERENCE = WHEP4

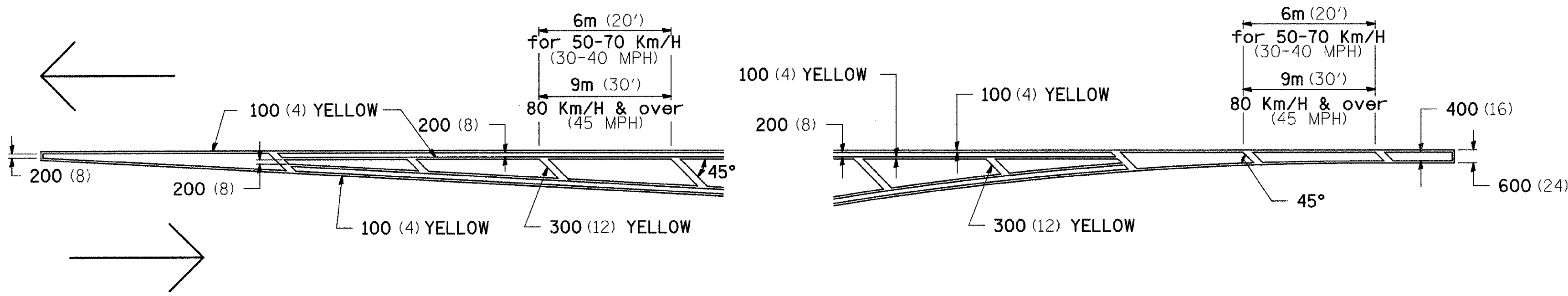
REVISED 5-12-04

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	40	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

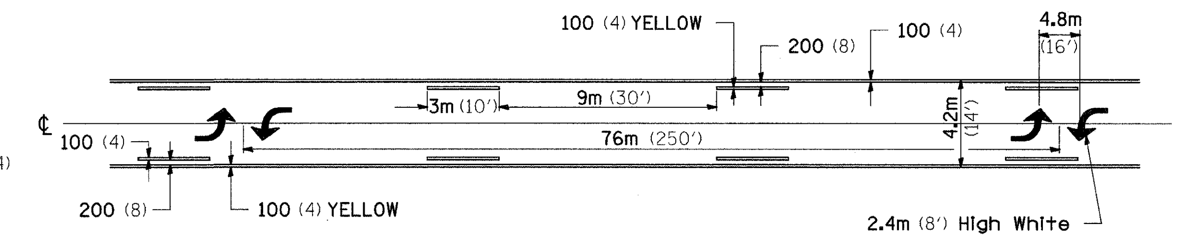
CONTRACT NO. 64C75

TYPICAL PAVEMENT MARKINGS

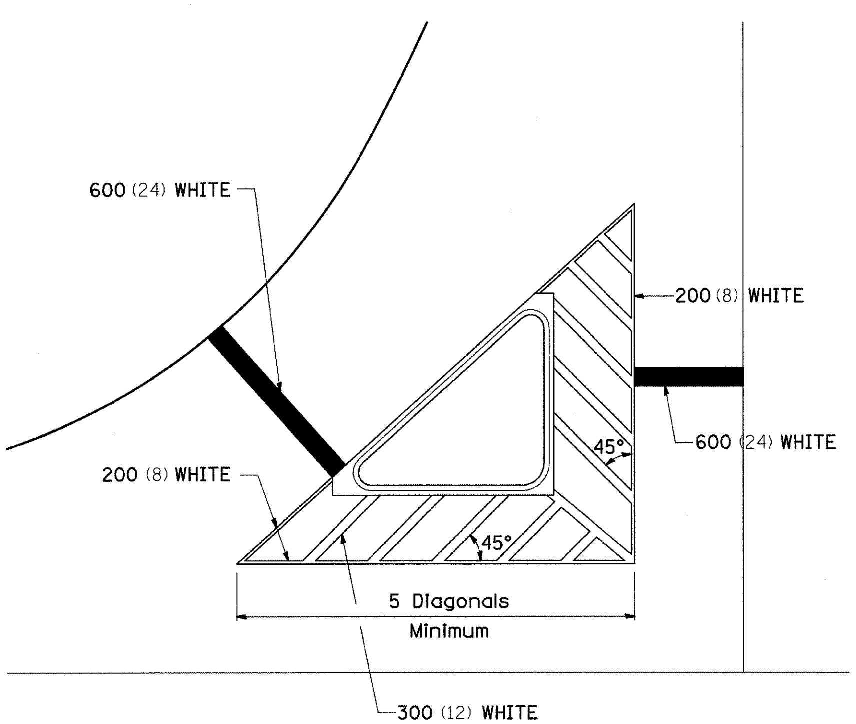
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



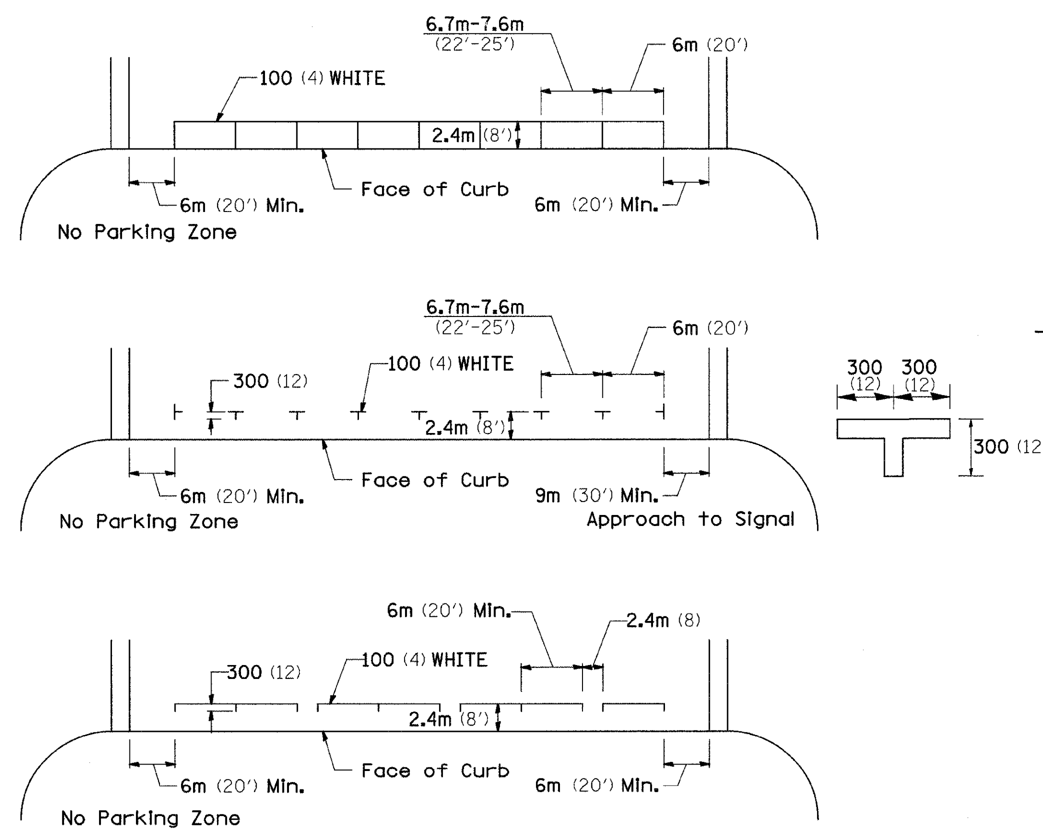
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



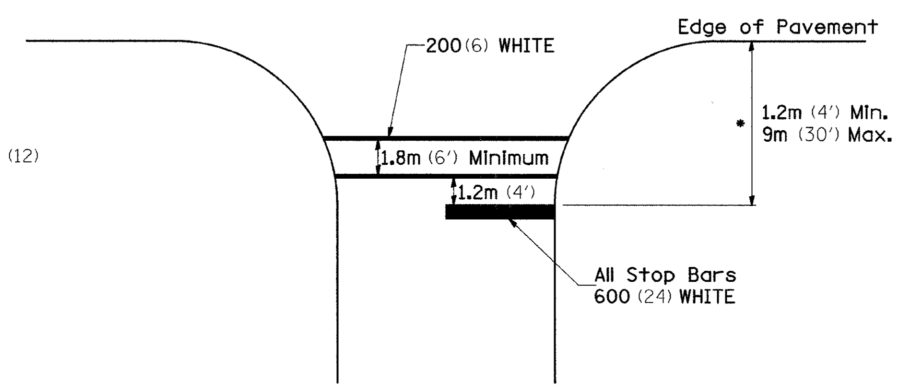
TYPICAL PARKING SPACING



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

STANDARD CROSSWALK MARKING

See Schedules for Locations



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

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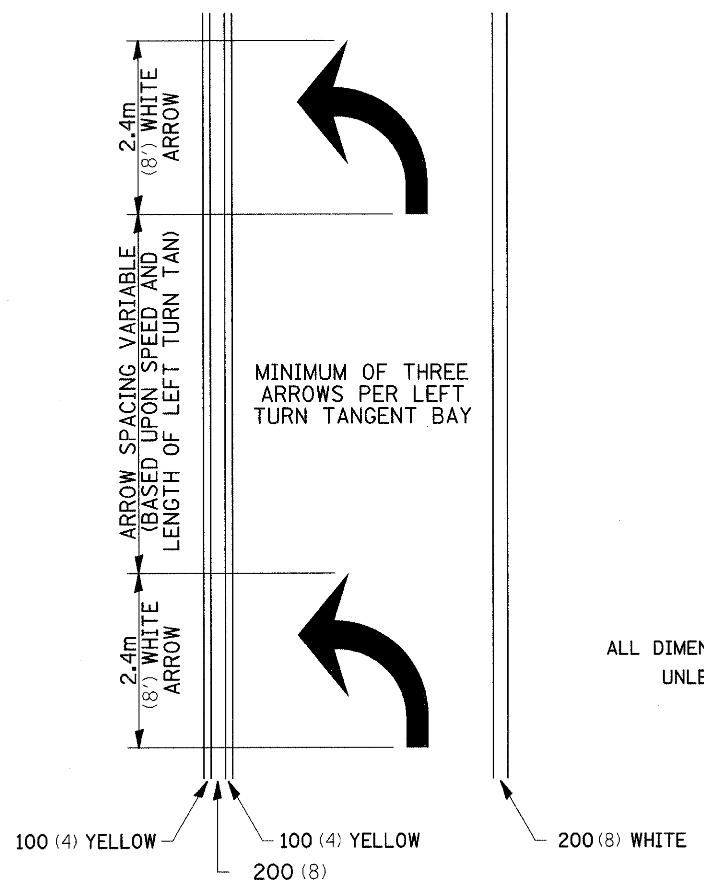
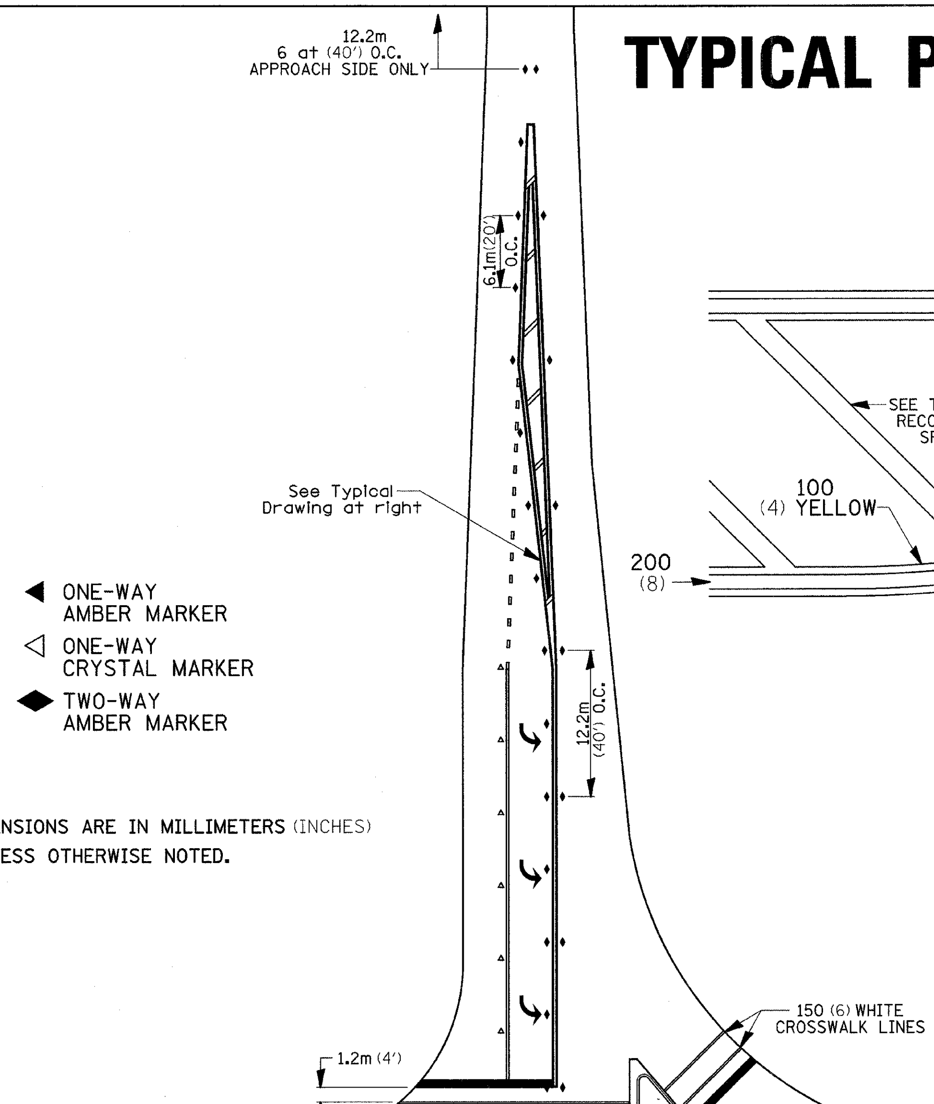
PLOT SCALE = 50.0000 ' / IN.
REFERENCE = REF

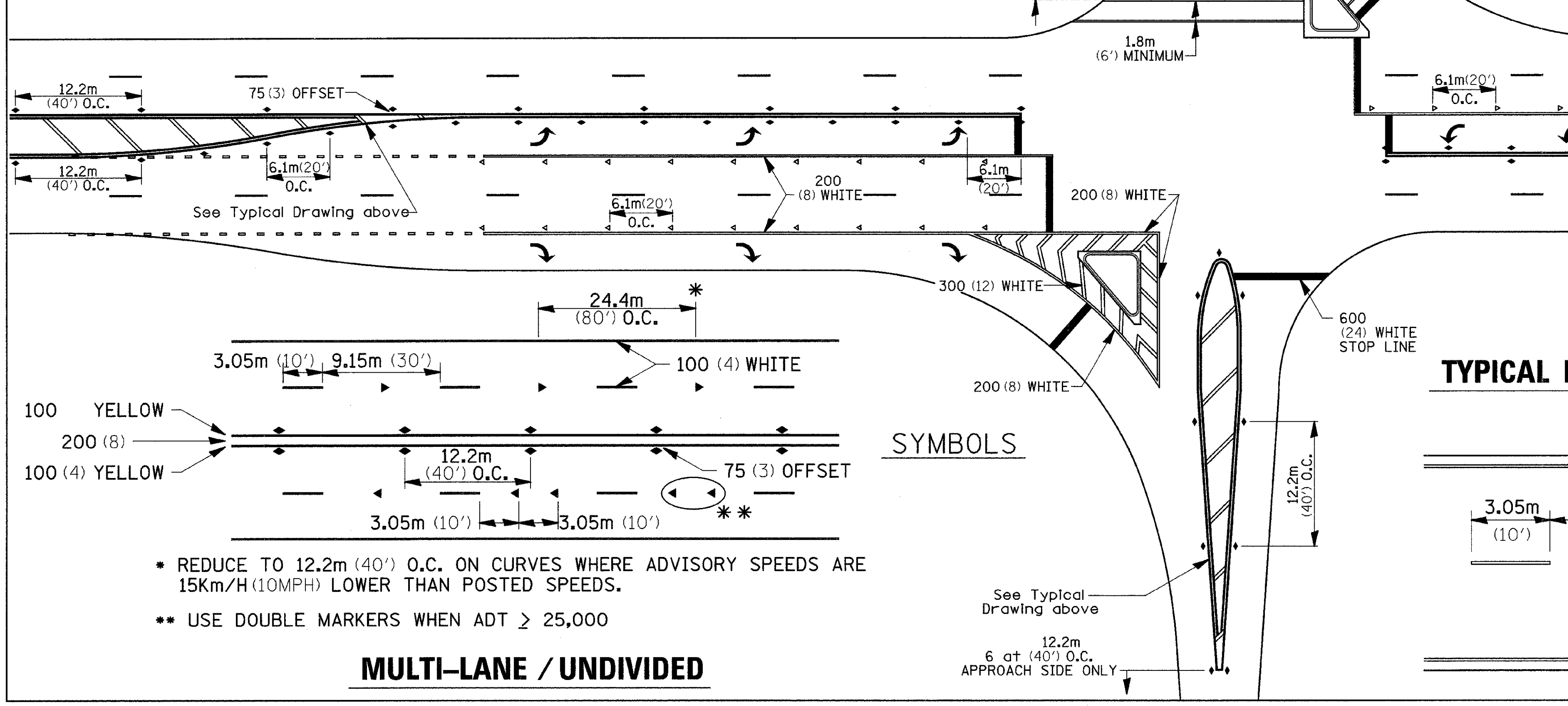
REVISED 7-20-06

TYPICAL PAVEMENT MARKINGS

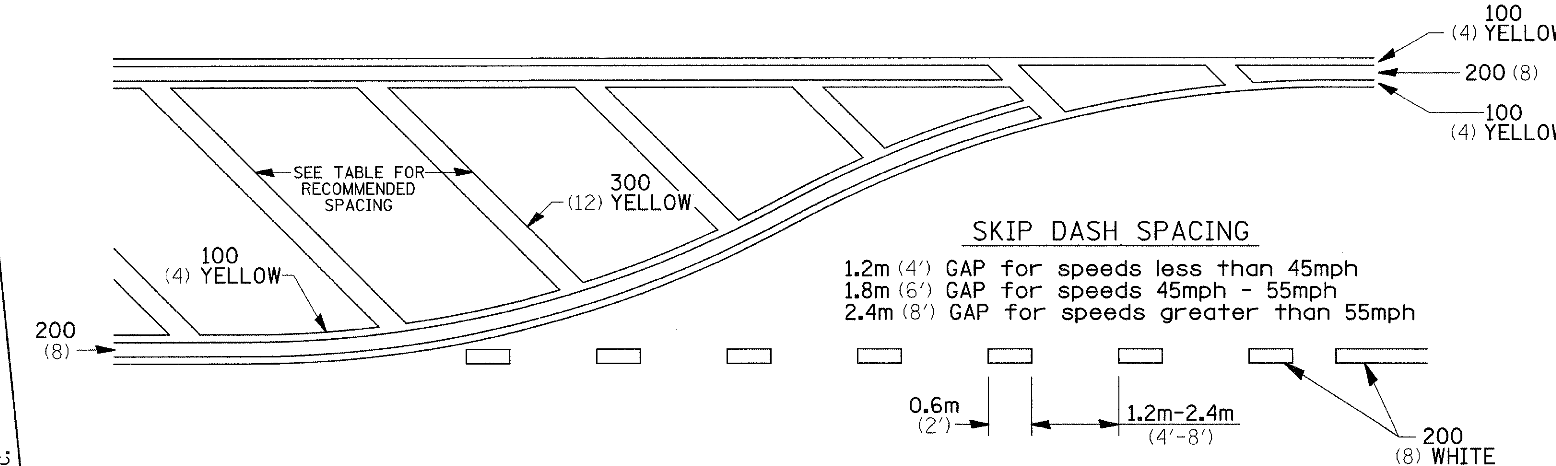
ARROW LAYOUT







TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



SKIP DASH SPACING

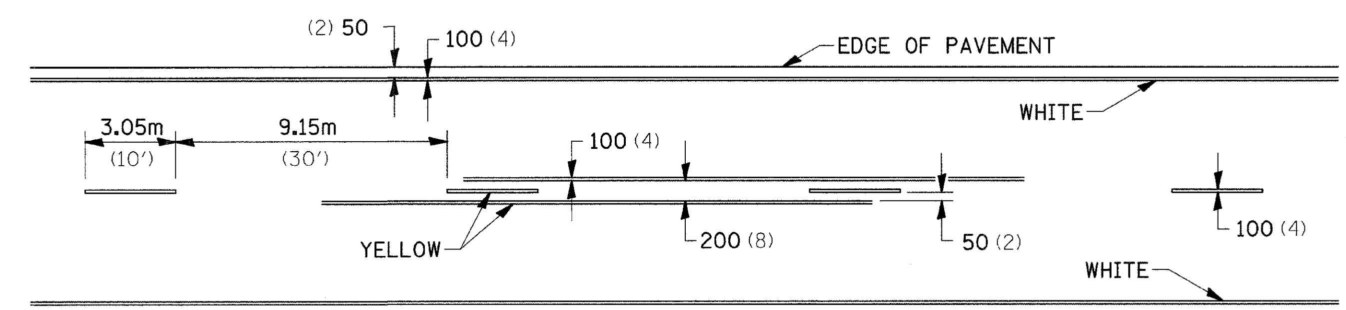
1.2m (4') GAP for speeds less than 45mph
1.8m (6') GAP for speeds 45mph - 55mph
2.4m (8') GAP for speeds greater than 55mph

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.

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



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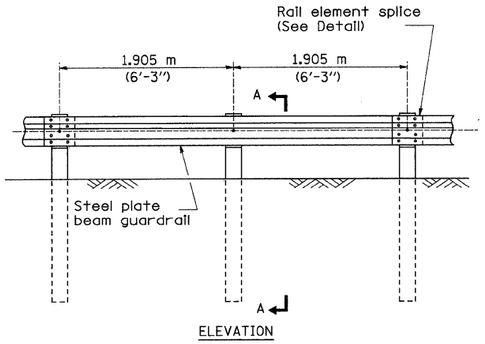
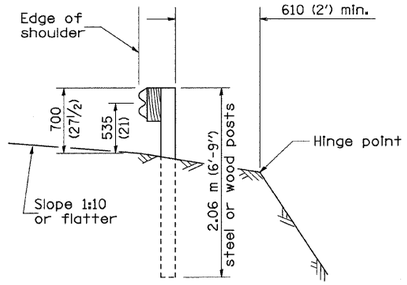
REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL

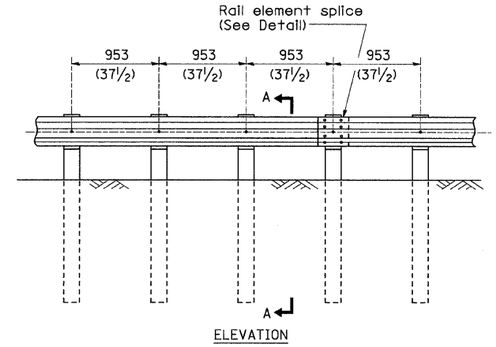


TYPE A

1.905 m (6'-3") Typical post spacing

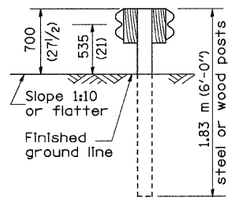


SECTION A-A

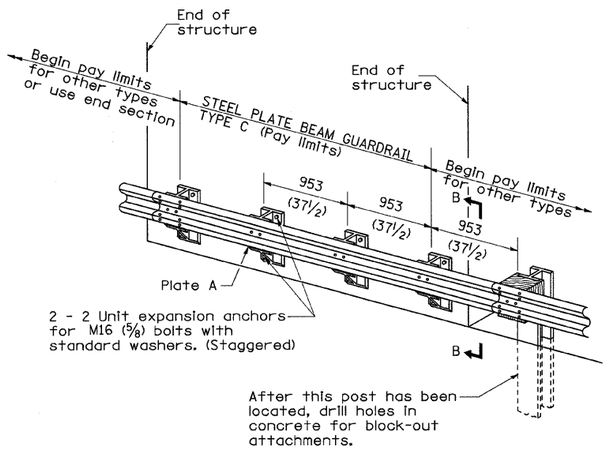


TYPE B

953 (37½) Closed post spacing

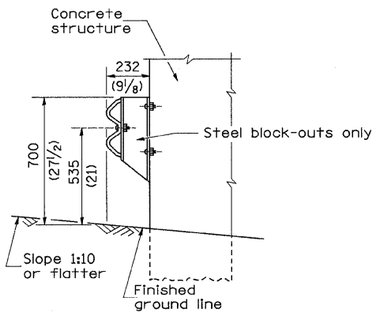


SECTION C-C

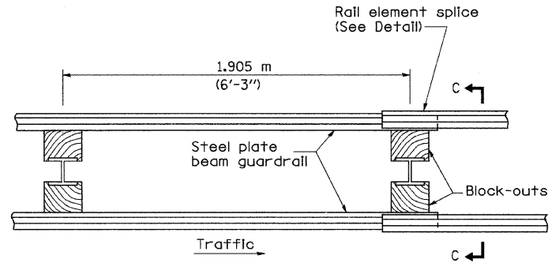


TYPE C

953 (37½) Block-out spacing



SECTION B-B



PLAN

TYPE D

Double steel plate beam guardrail
1.905 m (6'-3") typical post spacing

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

The existing steel posts may be drilled to match the bolt pattern shown herein for the wood block-out, or a new steel post shall be provided.

This detail is applicable to the guardrail system used prior to January 1, 2007. For details on the Midwest Guardrail System, see Standard 630001.

FILE NAME = C:\Projects\p200607\d00607spl.dgn	USER NAME = hensonke	DESIGNED -	REVISED - 1-15-08
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Thu Jan 24 15:44:34 2008	DATE -	REVISED -

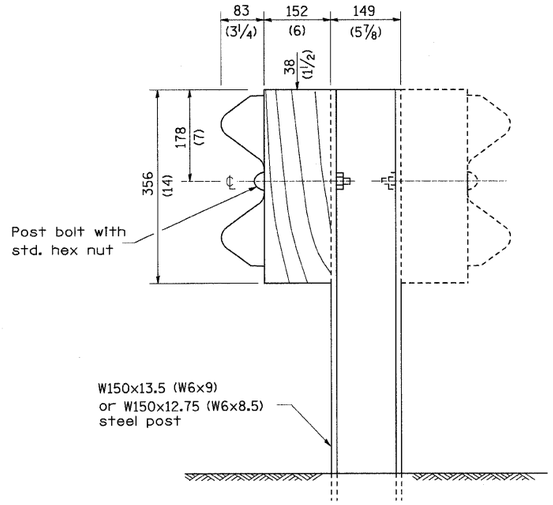
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

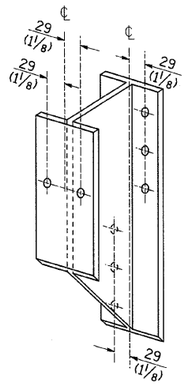
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	40	27
		CONTRACT NO. 64C75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

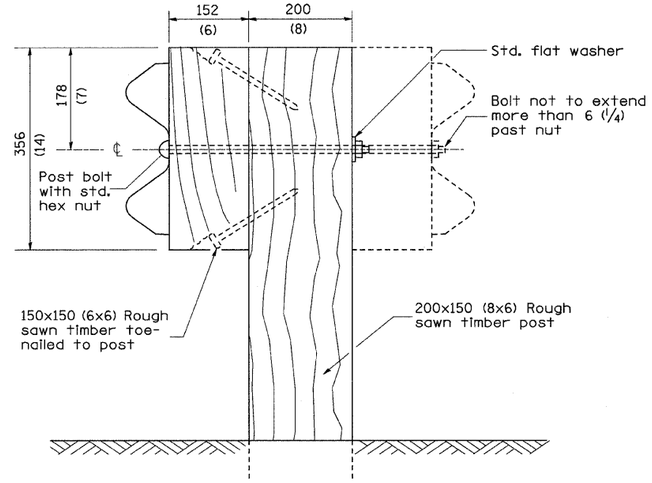
REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL



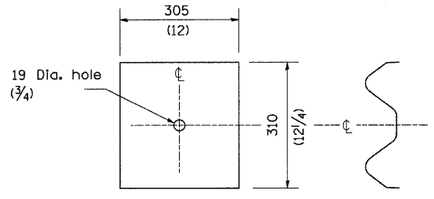
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL



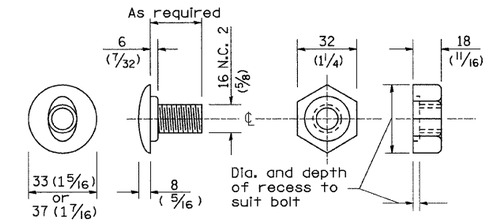
WOOD POST CONSTRUCTION



NOTE

Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

PLATE A



POST OR SPLICE BOLT & NUT

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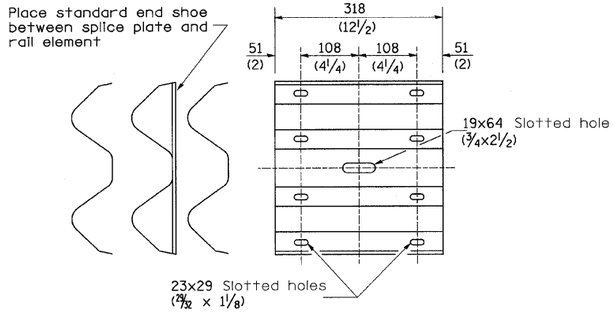
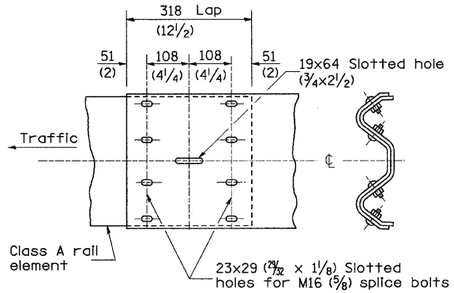
		DRAWN -	REVISED -						316	102T	LEE	40	28
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -								CONTRACT NO. 64C75		
	PLOT DATE = Thu Jan 24 15:44:34 2008	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

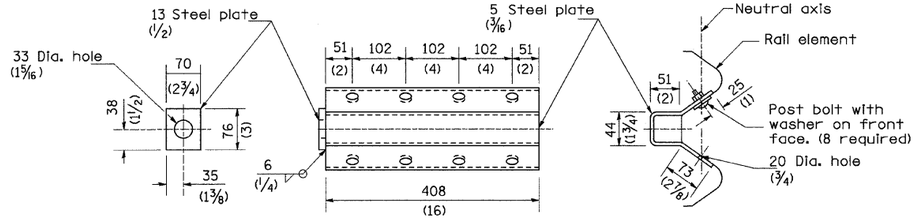
REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL



SPLICE PLATE



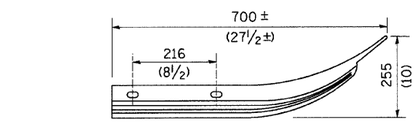
RAIL ELEMENT SPLICE

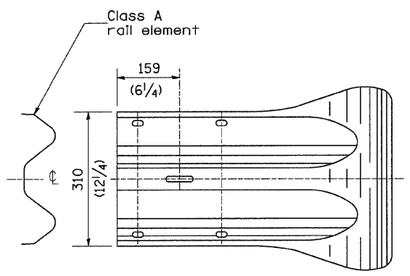


NOTE

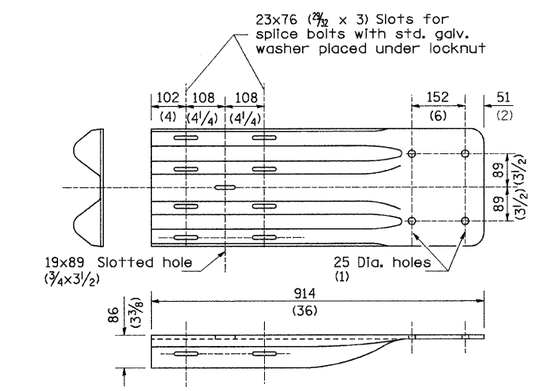
Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

ANCHOR PLATE T DETAILS





END SECTION



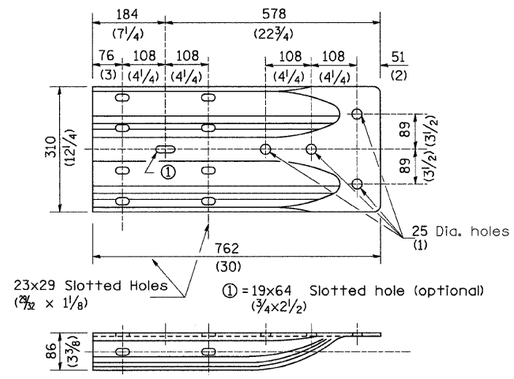
NOTE

When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

END SHOE



ALTERNATE END SHOE

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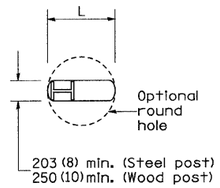
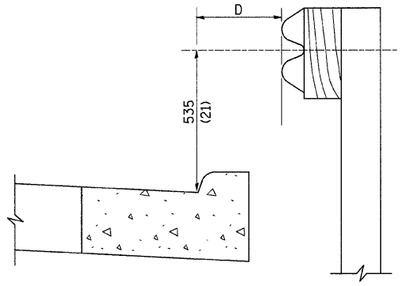
		DRAWN -	REVISED -					316	102T	LEE	40	29
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -							CONTRACT NO. 64C75		
	PLOT DATE = Thu Jan 24 15:44:34 2008	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL



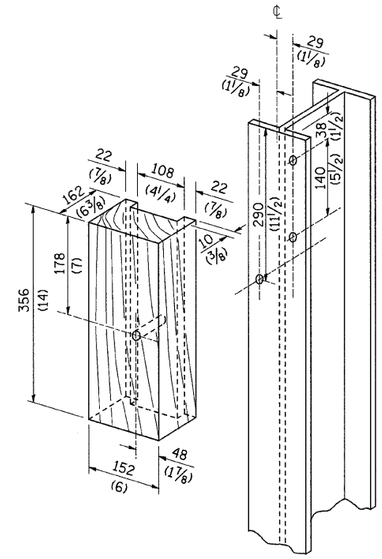
PLAN



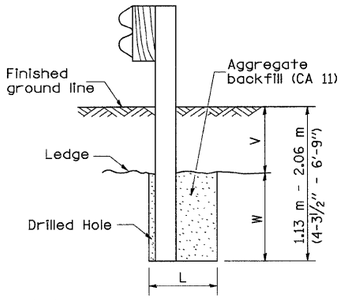
Note:
If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0") type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

GUARDRAIL PLACED BEHIND CURB

(D = 0 desirable to 300 (12) maximum)



WOOD BLOCK-OUT AND STEEL POST DETAILS

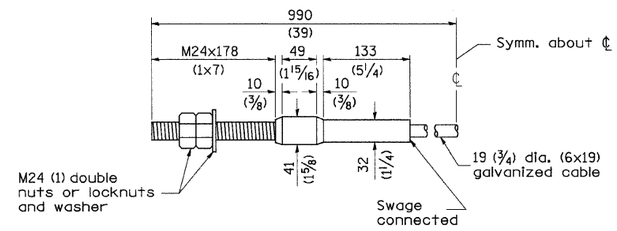


Note:
Ledge line is top of rock ledge or hard slag fill.

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

V	W	L	
		Steel Post	Wood Post
0 - 460 (0 - 18)	610 (24)	530 (21)	580 (23)
>460 - 825 (>18 - 41.5)	305 (12)	203 (8)	250 (10)
>825 - 1.13 m (>41.5 - 53.5)	305 - 0 (12 - 0)	203 (8)	250 (10)



CABLE ASSEMBLY

(18,100 kg (40,000 lbs.) min. breaking strength)
Tighten to taut tension.

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		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Thu Jan 24 15:44:34 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

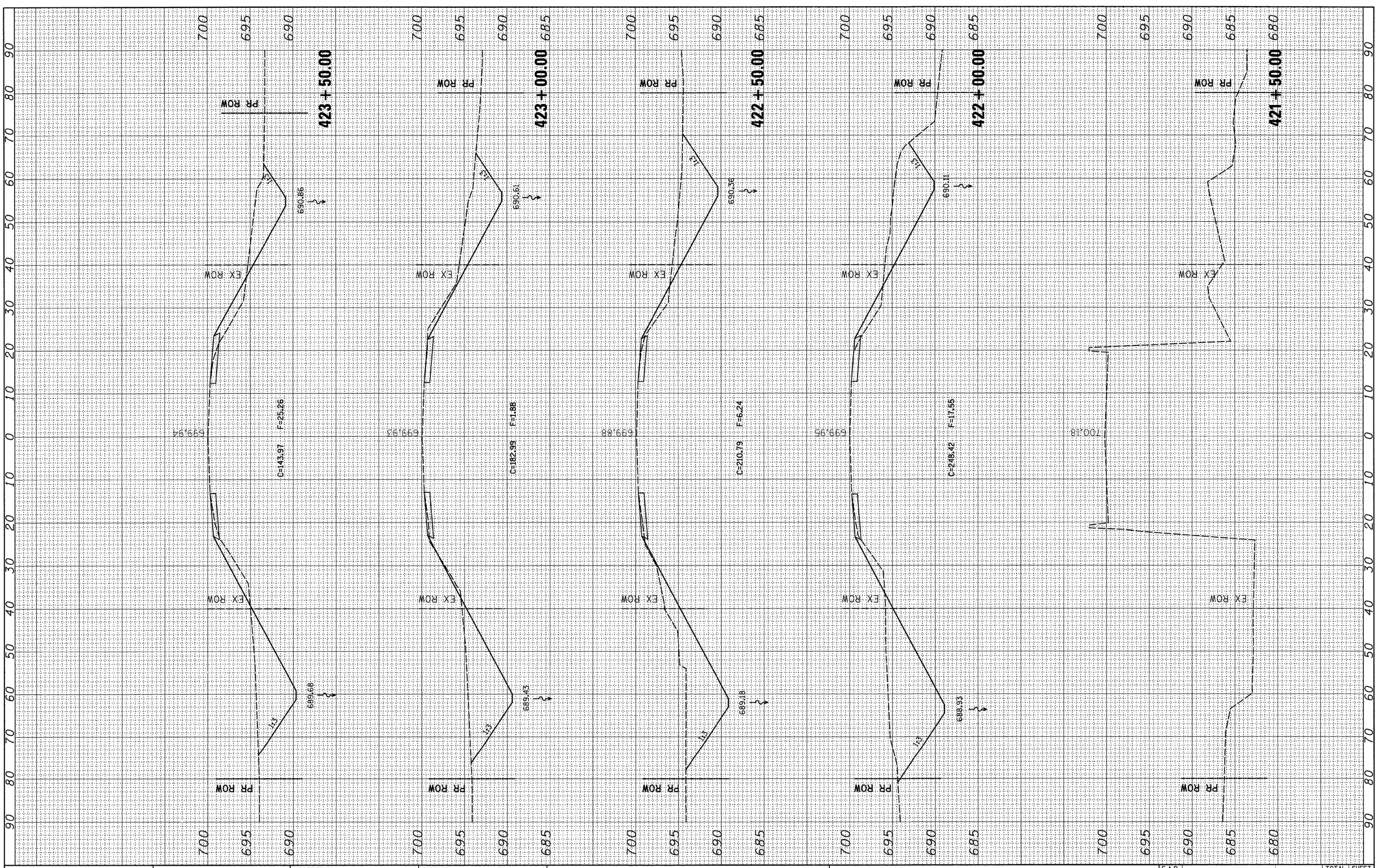
REGION 2 / DISTRICT 2 STANDARD

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	40	30
		CONTRACT NO. 64C75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT DATE = Thu Jan 24 15:45:50 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 421+50.00 TO STA. 423+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	31
		CONTRACT NO. 64C75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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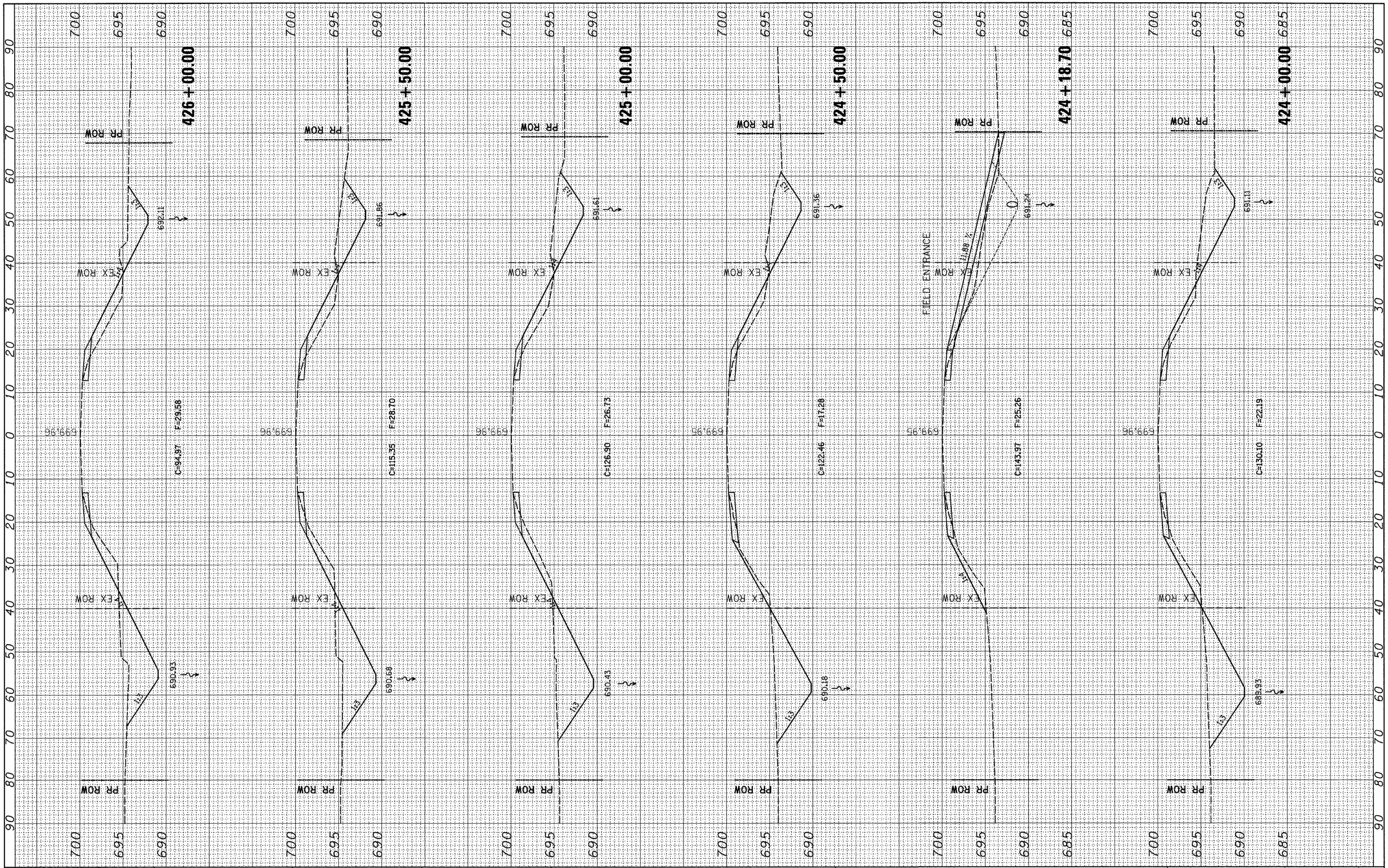
NOTE BOOK	PLOTTED		
NO.	TYPING DATE		
	AREAS		
	AREAS CHECKED		



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PLOT DATE = Thu Jan 24 15:45:50 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 424+00.00 TO STA. 426+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	32
		CONTRACT NO. 64C75		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

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

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NOTE BOOK	TYPING DATE		
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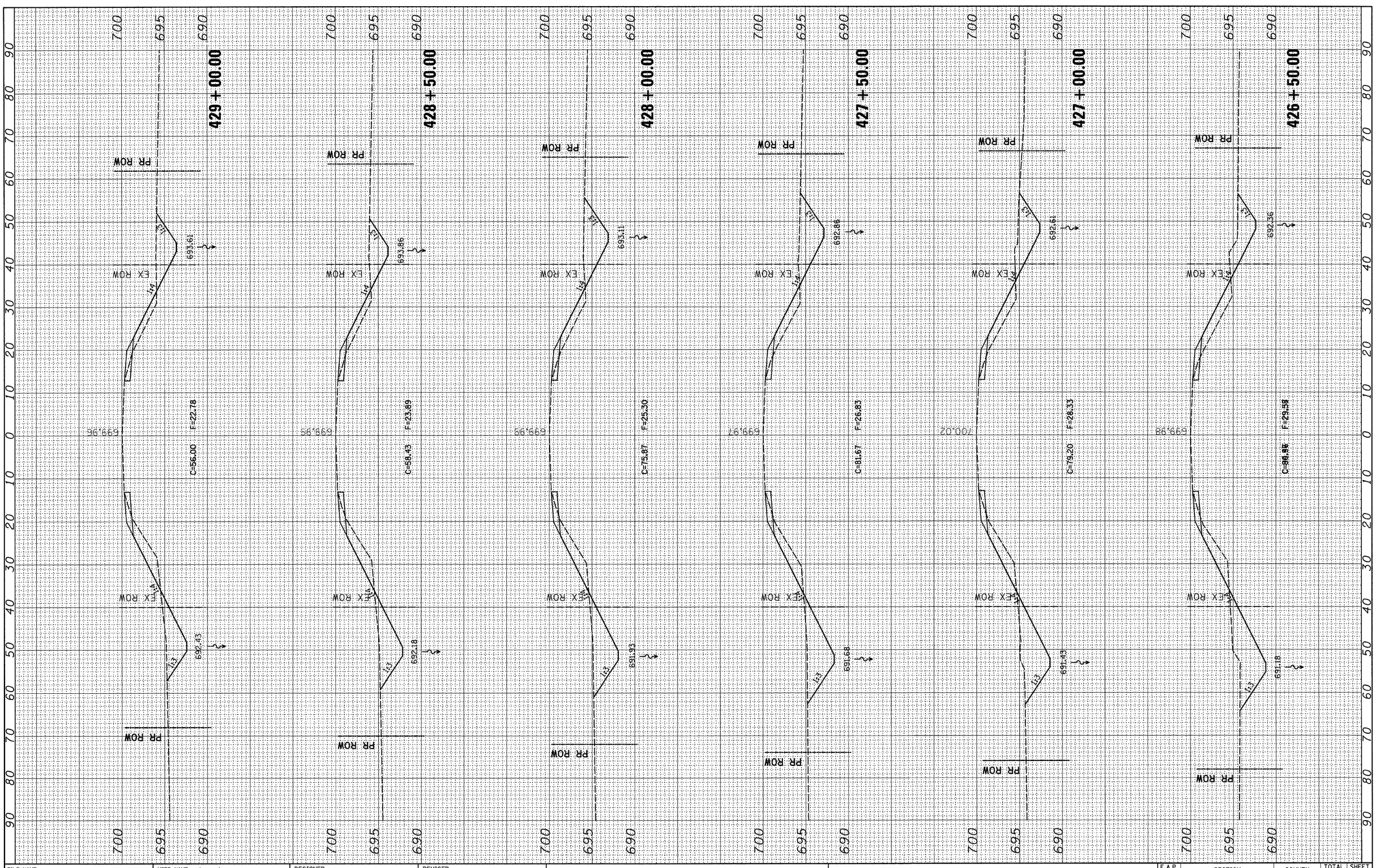
NO.	AREAS CHECKED		



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PLOT DATE = Thu Jan 24 15:45:50 2008	DATE -	REVISED -

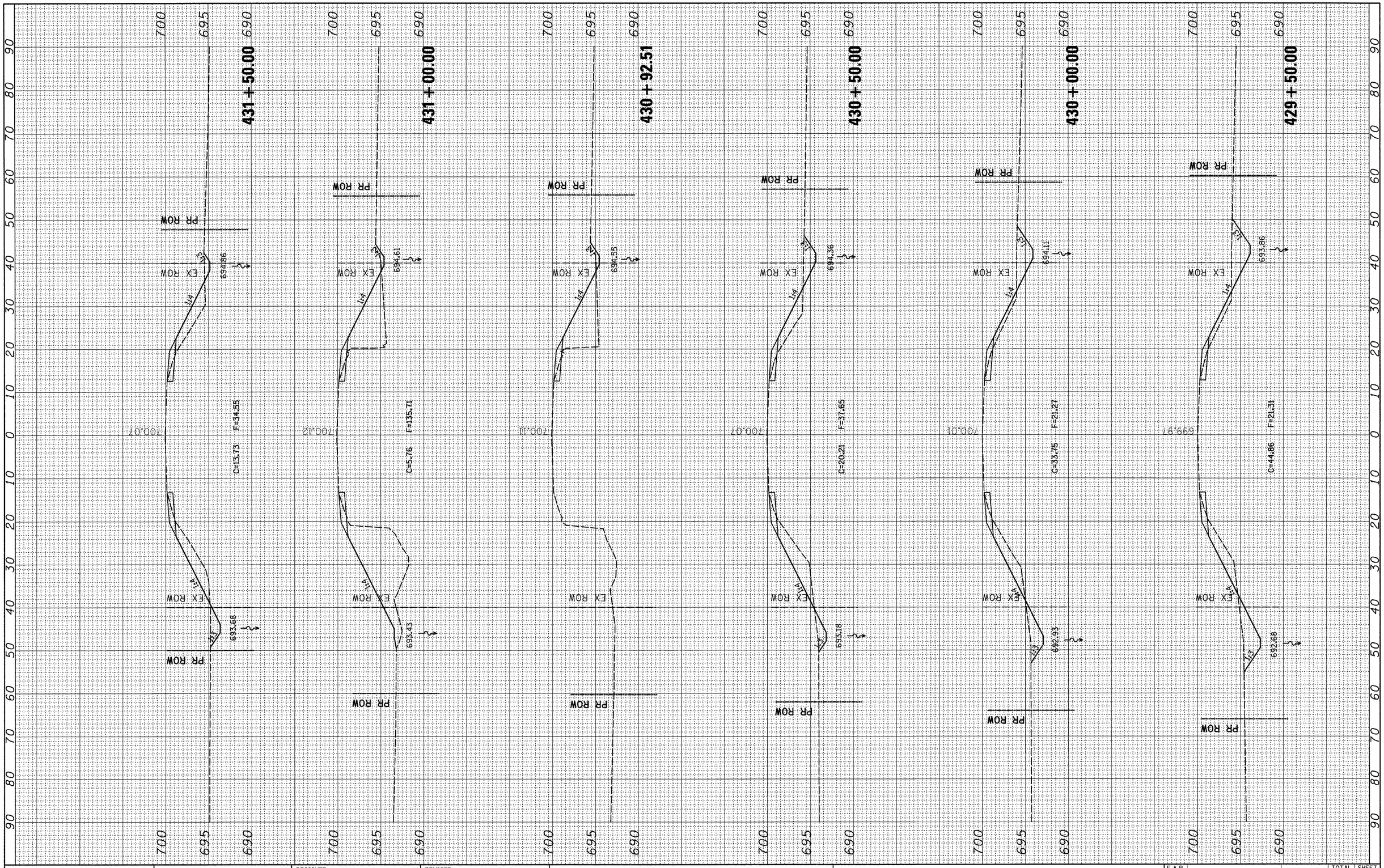
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 426+50.00 TO STA. 429+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	33
		CONTRACT NO. 64C75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT DATE = Thu Jan 24 15:45:51 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 429+50.00 TO STA. 431+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	34
		CONTRACT NO. 64C75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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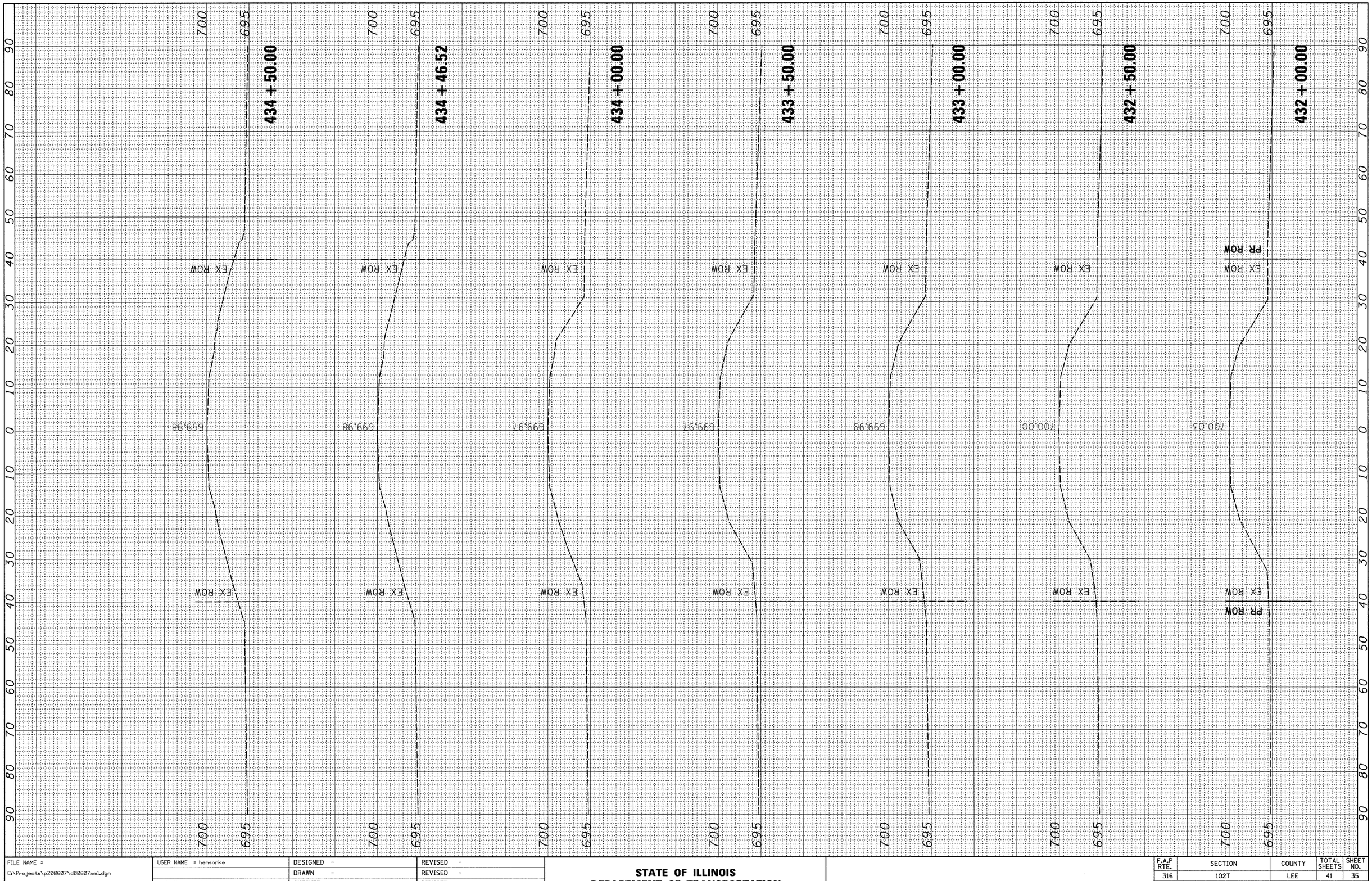
NO. AREAS CHECKED		



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	PLOT DATE = Thu Jan 24 15:45:51 2008	DATE -	REVISED -

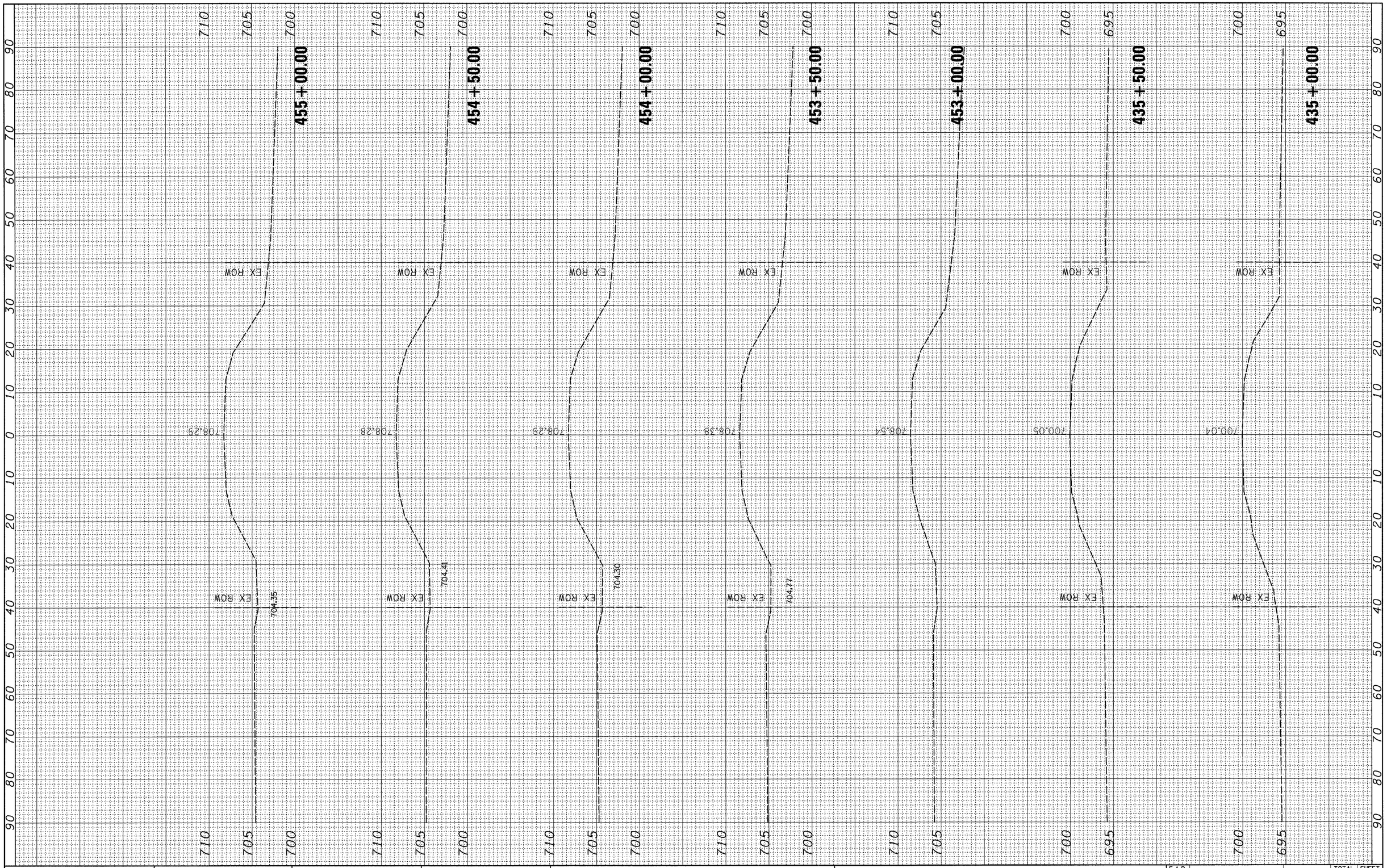
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 432+00.00 TO STA. 434+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	35
		CONTRACT NO. 64C75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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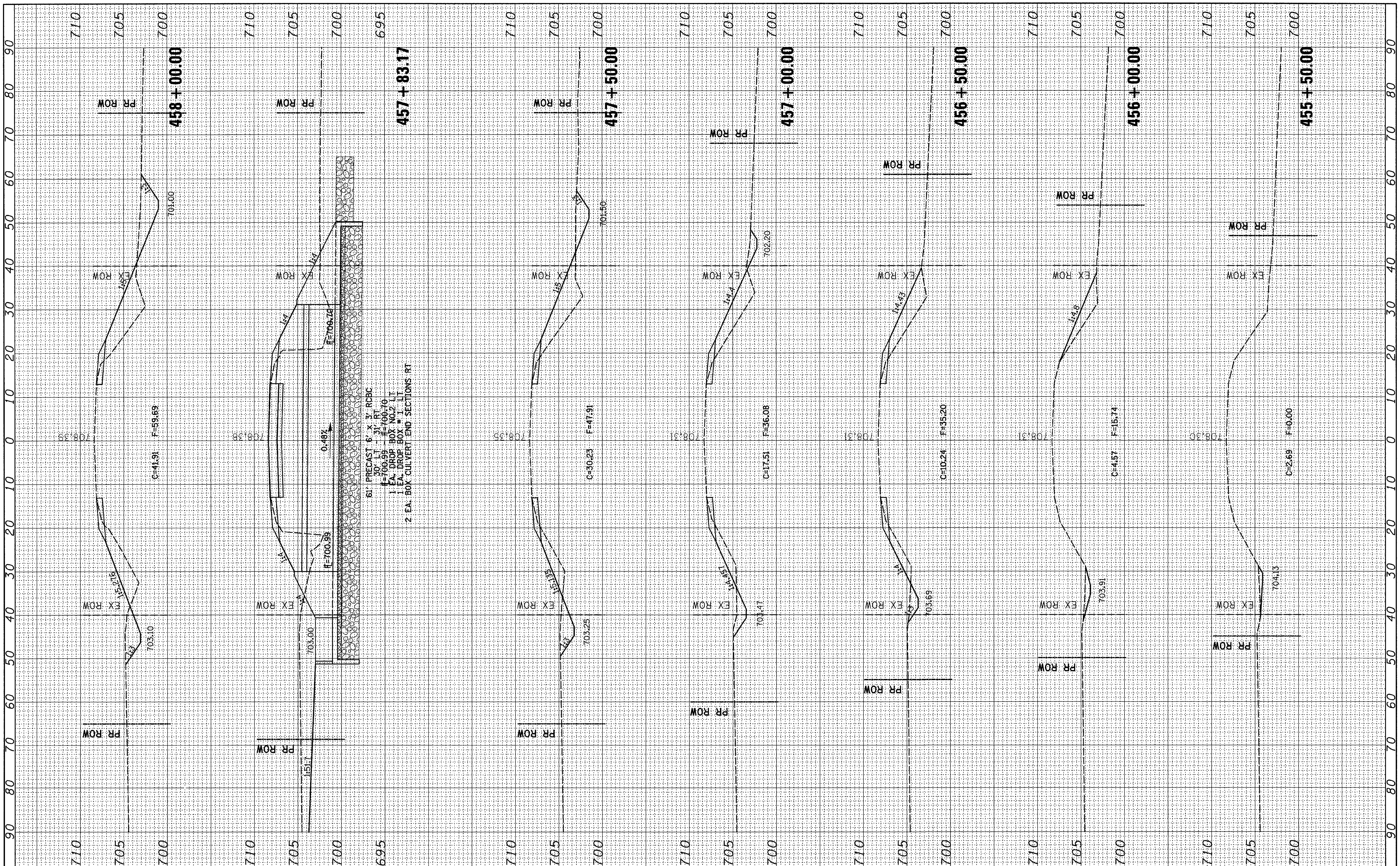
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 435+00.00 TO STA. 455+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	36
		CONTRACT NO. 64C75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = Thu Jan 24 15:45:51 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 455+50.00 TO STA. 458+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	37

CONTRACT NO. 64C75

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

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

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NOTE BOOK	TYPING DATE		
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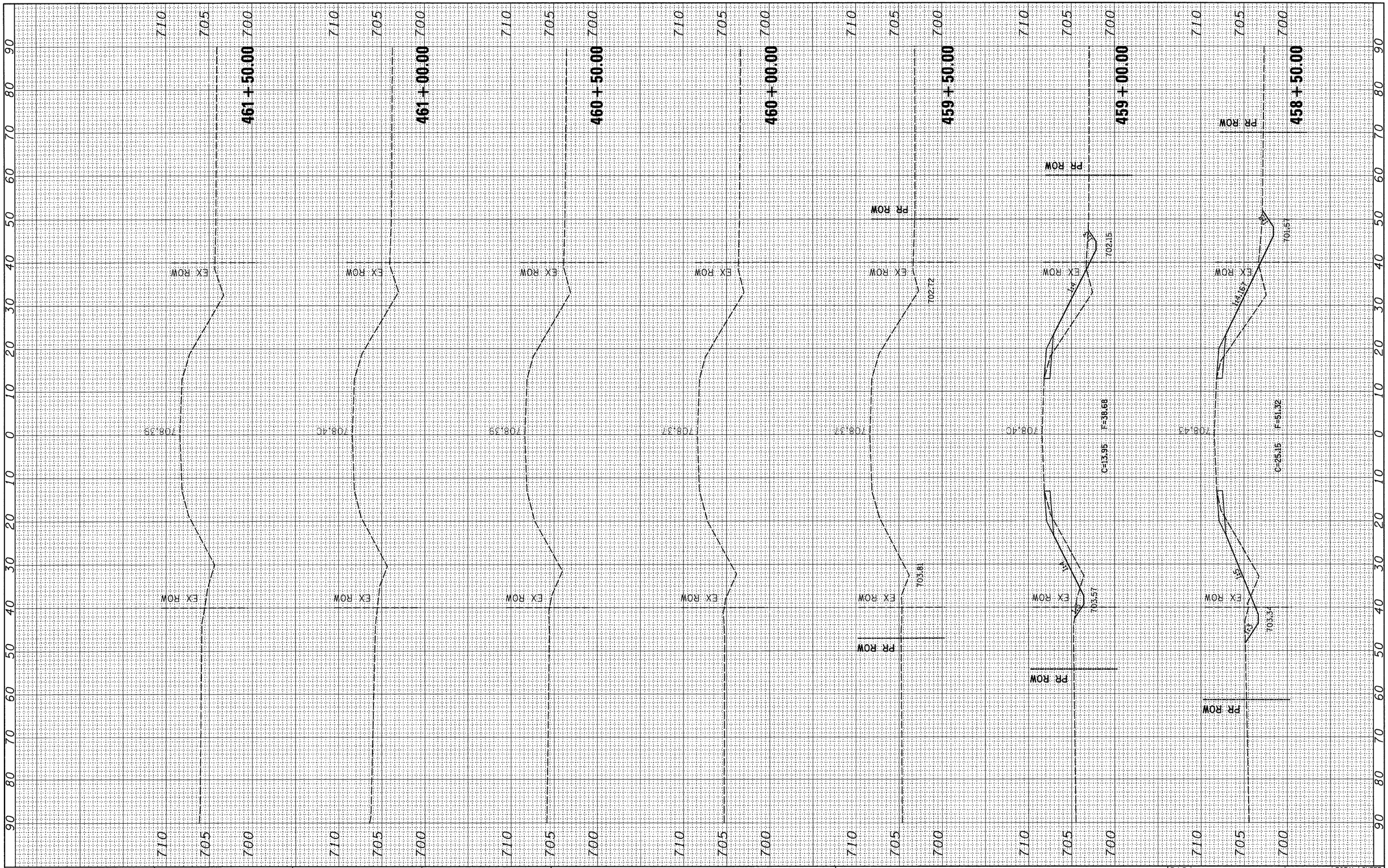
NO.	AREAS CHECKED		



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	DRAWN -	REVISED -
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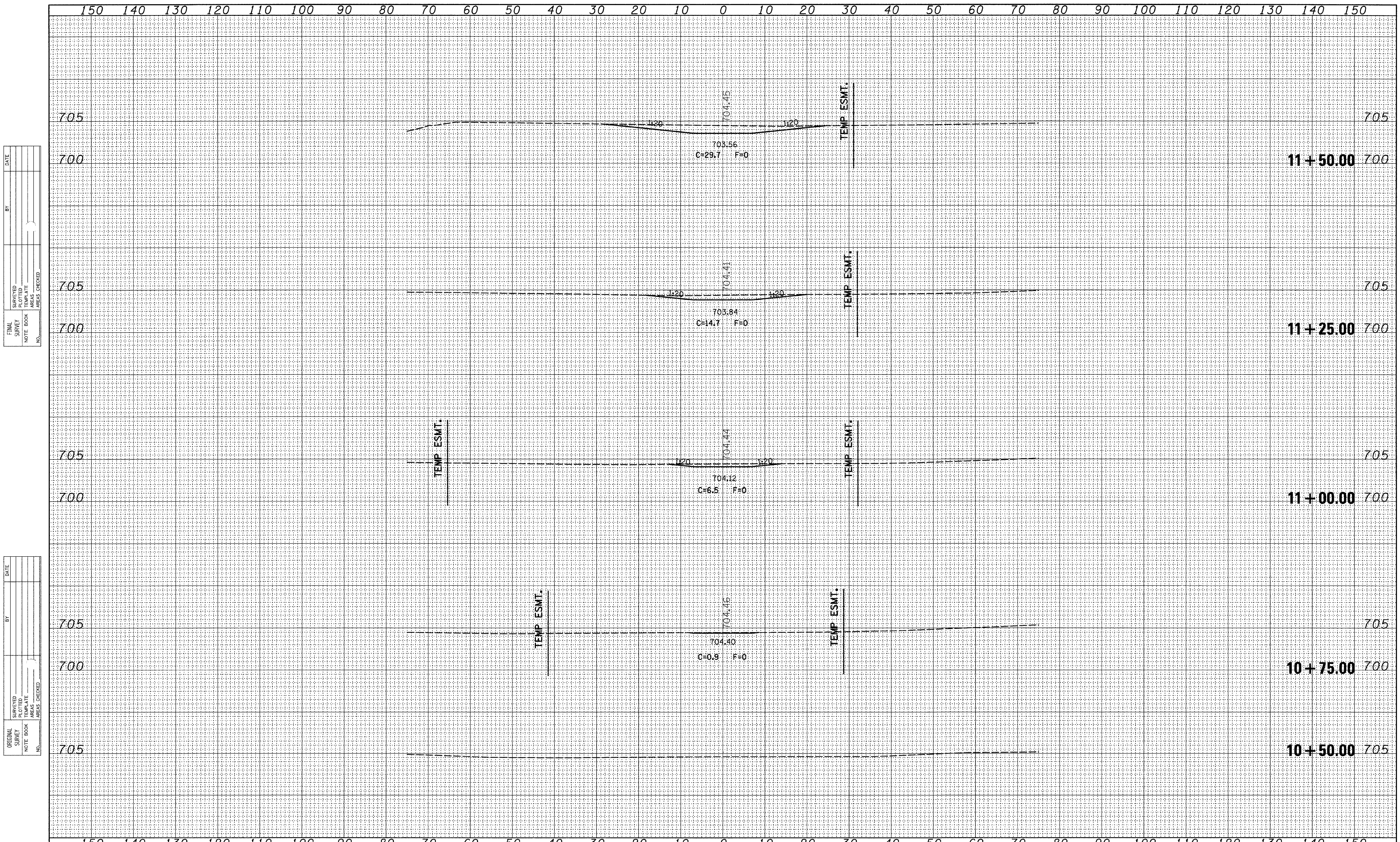
PLOT DATE = Thu Jan 24 15:45:52 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 458+50.00 TO STA. 461+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	38
		CONTRACT NO. 64C75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = Thu Jan 24 15:45:49 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 10+50.00 TO STA. 11+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	39

CONTRACT NO. 64C75

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

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

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

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

705
700

TEMP. ESMT.

1:20 1:20

702.15

700.35
C=122.6 F=0

TEMP. ESMT.

13 + 50.00

705
700

TEMP. ESMT.

1:20 1:20

702.33

700.53
C=124.7 F=0

13 + 25.00

700

1:20 1:20

700.70
C=134.5 F=0

13 + 00.00

700

1:20 1:20

703.00
C=87.5 F=0

12 + 00.00

705
700

704.62

1:20 1:20

TEMP. ESMT.

703.28
C=56.2 F=0

11 + 75.00

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

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		DRAWN -	REVISED -
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	PLOT DATE = Thu Jan 24 15:45:49 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 11+75.00 | TO STA. 13+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	40
		CONTRACT NO. 64C75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TYPED		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TYPED		
AREAS		
AREAS CHECKED		

BY	DATE

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

7.05
7.00
6.95

TEMP. ESMT.

EARTHWORK ENDS
STA 14+50

699.80

699.66
C=24.1 F=36.4

TEMP. ESMT.

14 + 50.00

TEMP. ESMT.

1:20

700.14

699.83
C=175.3 F=0

1:20

TEMP. ESMT.

14 + 25.00

TEMP. ESMT.

1:20

700.16

700.00
C=163.7 F=0

1:20

TEMP. ESMT.

14 + 00.00

TEMP. ESMT.

1:20

700.59

700.18
C=132.4 F=0

1:20

TEMP. ESMT.

13 + 75.00

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

FILE NAME = C:\Projects\p200607\d00607xml.dgn	USER NAME = hensonke	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Thu Jan 24 15:45:50 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. 13+75.00 TO STA. 14+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102T	LEE	41	41
		CONTRACT NO. 64C75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		