

SUMMARY OF QUANTITIES

CONTRACT NO. 64C35				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES				RURAL	
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	Y007	Y007
				80% FED/ 20%STATE	80% FED/ 20%STATE
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	11	11	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	424	424	
20200100	EARTH EXCAVATION	CU YD	1,533	1,225	308
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	839	509	330
20400800	FURNISHED EXCAVATION	CU YD	2,114	1,460	654
* 25000210	SEEDING, CLASS 2A	ACRE	1.90	1.50	0.40
* 25000310	SEEDING, CLASS 4	ACRE	0.36	0.25	0.11
■ 25000750	MOWING	ACRE	1.90	1.50	0.40
25100115	MULCH, METHOD 2	ACRE	1.90	1.50	0.40
25100630	EROSION CONTROL BLANKET	SQ YD	320		320
25100900	TURF REINFORCEMENT MAT	SQ YD	1,018	742	276
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,400	920	480
28000300	TEMPORARY DITCH CHECKS	EACH	53	34	19
28000400	PERIMETER EROSION BARRIER	FOOT	897	557	340
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
28100107	STONE RIPRAP, CLASS A4	SQ YD	162	103	59
28200200	FILTER FABRIC	SQ YD	162	103	59
35101400	AGGREGATE BASE COURSE, TYPE B	TON	290	290	
40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	37	20	17
*SPECIALTY ITEMS ■ NP- 100% STATE					

PLOT DATE = Mon Jan 28 10:52:41 2008
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 USER NAME = hennings

SUMMARY OF QUANTITIES

CONTRACT NO. 64C35

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES				RURAL	
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	Y007	Y007
				80% FED/ 20%STATE	80% FED/ 20%STATE
40600990	TEMPORARY RAMP	SQ YD	184	76	108
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX"C", N50	TON	139	103	36
44004250	PAVED SHOULDER REMOVAL	SQ YD	240	240	
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SQ YD	655	361	294
44213200	SAW CUTS	FOOT	443	443	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	57	57	
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	976	633	343
50100300	REMOVAL OF EXISTING STRUCTURES NO.1	EACH	1	1	
50100400	REMOVAL OF EXISTING STRUCTURES NO.2	EACH	1	1	
50300225	CONCRETE STRUCTURES	CY YD	78	78	
50800105	REINFORCEMENT BARS	POUND	35,630	12,370	23,260
50901760	PIPE HANDRAIL	FOOT	37	37	
51205200	TEMPORARY SHEET PILING	SQ FT	5,224	3,513	1,711
51500100	NAME PLATES	EACH	3	2	1
54003000	CONCRETE BOX CULVERTS	CY YD	143		143
54010808	PRECAST CONCRETE BOX CULVERT 8' X 8'	FOOT	100	100	
54213717	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 72"	EACH	2	2	
54215550	METAL END SECTIONS 15"	EACH	4	4	
542A0277	PIPE CULVERTS, CLASS A, TYPE 1 72"	FOOT	83	83	
*SPECIALTY ITEMS					

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 PLOT SCALE = 1/8" = 100'
 PLOT SIZE = 36" x 48"
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SUMMARY OF QUANTITIES

CONTRACT NO. 64C35				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES				RURAL		
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	Y007	Y007	
				80% FED/ 20%STATE	80% FED/ 20%STATE	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	110	110		
60100080	FRENCH DRAINS	CY YD	9		9	
60100925	PIPE DRAINS 8"	FOOT	34		34	
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	144	74	70	
61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	85		85	
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	6	3	3	
* 63100210	TRAFFIC BARRIER TERMINAL, TYPE 11 (SPECIAL)	EACH	1		1	
63200310	GUARDRAIL REMOVAL	FOOT	1,319	1118	201	
63300575	REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	108		108	
63500105	DELINEATORS	EACH	6	4	2	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	30	21	9	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	6	4	2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6			
67100100	MOBILIZATION	L SUM	1			
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	3	2	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1			
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	30			
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	3	2	1	
70106700	TEMPORARY RUMBLE STRIP	EACH	18	12	6	
*SPECIALTY ITEMS						

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SUMMARY OF QUANTITIES

CONTRACT NO. 64C35				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES				RURAL	
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	Y007	Y007
				80% FED/ 20% STATE	80% FED/ 20% STATE
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	6,883	4,892	1,991
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2,336	1,639	697
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,361	713	648
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	975	613	362
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	10,772	8,550	2,222
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	23	20	3
78300100	PAVEMENT MARKING REMOVAL	SQ FT	865	603	262
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	23	20	3
* A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	11	11	
X4810100	TEMPORARY SHOULDERS	SQ YD	526	252	274
XX005298	REMOVE EXISTING TIMBER WALL	FOOT	105		105
Z0005400	BREAKER-RUN CRUSHED STONE	TON	1,538	1044	494
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	0
Z0023600	FILLING EXISTING CULVERTS	EACH	1		1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	9	6	3
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2
*SPECIALTY ITEMS					

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GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 17 (IL 64)	15T-2	Carroll	71	6
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C35				

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.

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 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.

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):	Top Shoulder	Bottom Shoulder	Surface	Level Binder
PG:	PG 58-22	PG 58-22	PG 64-22	PG 64-22
Design Air Voids	3 @ N50	2 @ N50	4.0 @ N50	4.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	BAM	IL 9.5 or 12.5	IL 9.5
Friction Aggregate	C	N/A	C	D
20 Year ESAL	N/A	N/A	2.3	1.5

The Contractor will be required to furnish 140 mm (5 1/2") high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 150 mm (6") inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

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 HOT-MIX ASPHALT SURFACE COURSE of the type specified.

The new number for the structure at Sta. 1211+65 will be 008-1097
 Sta. 1240+74 will be 008-1098
 Sta. 1359+16.80 will be 008-1099

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 Dave Lippert, 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 review and approval of temporary sheet piling will require 4 to 6 weeks. The Contractor shall schedule his work accordingly.

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

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

Box culverts that are stage constructed and undercut by more than 600 mm (2 feet) shall have lean concrete placed on the rock fill at the stage line. The concrete shall retain the rock fill until the second stage rock fill is placed. This work will be included in the pay item for the type of rock fill used.

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.

A Precast Box Culvert is not an option at Sta. 1240+74 on the project due to soil conditions.

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

Connecting bands for corrugated metal pipes shall be metal and shall be coated with the same material as the pipe sections. The connecting bands shall be a minimum of 18" wide.

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

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

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

1. The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 6 Each.

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

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 17 (IL 64)	15T-2	Carroll	71	7
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C35				

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.

Tree planting layout shall be performed by the District Landscape Architect. Mulch shall be placed 4" thick in a 5 foot diameter around the tree. The mulch shall be hardwood wood chips placed on weed barrier fabric. This work shall be included in the cost of the tree.

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

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

Commonwealth Edison Co.

Frontier/Citizens

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.

The contractor shall use a Narrow Impact Attenuator at the following locations in Stage 3 of construction of the culverts:

Sta. 1212+77.42 LT
Sta. 1239+38 LT
Sta. 1239+55 RT
Sta. 1242+73 LT
Sta. 1360+23.05 RT

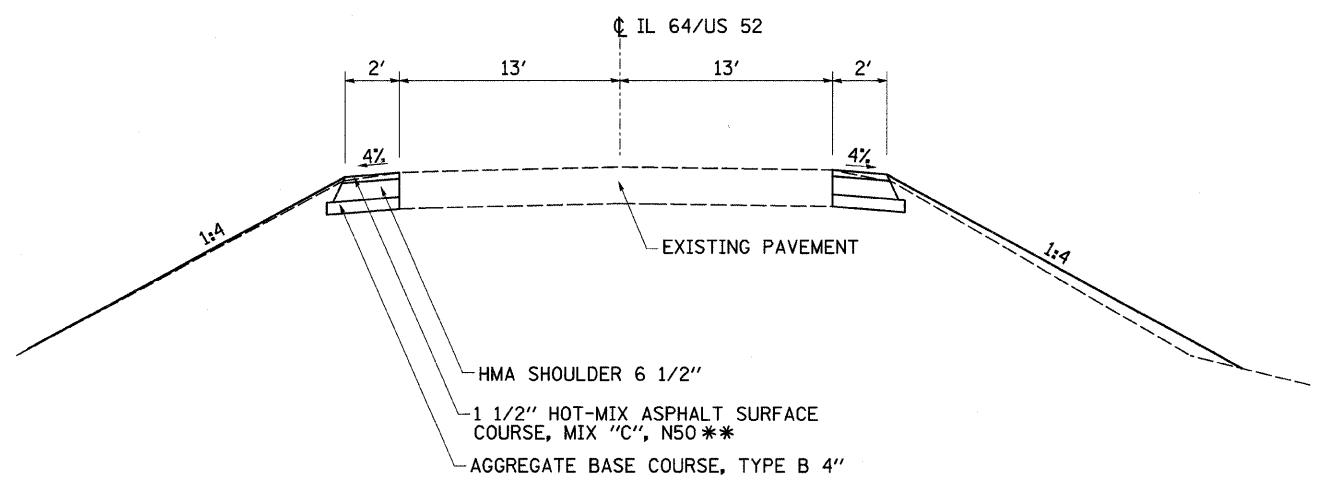
The Contractor or RE shall notify property owner Jim Ludwig when the proposed field tile, storm sewer protected pipe and French drain is being installed. The Contractor shall allow Mr. Ludwig or his designated representatives to field verify that the elevations of these drainage elements are such that they shall drain properly.

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

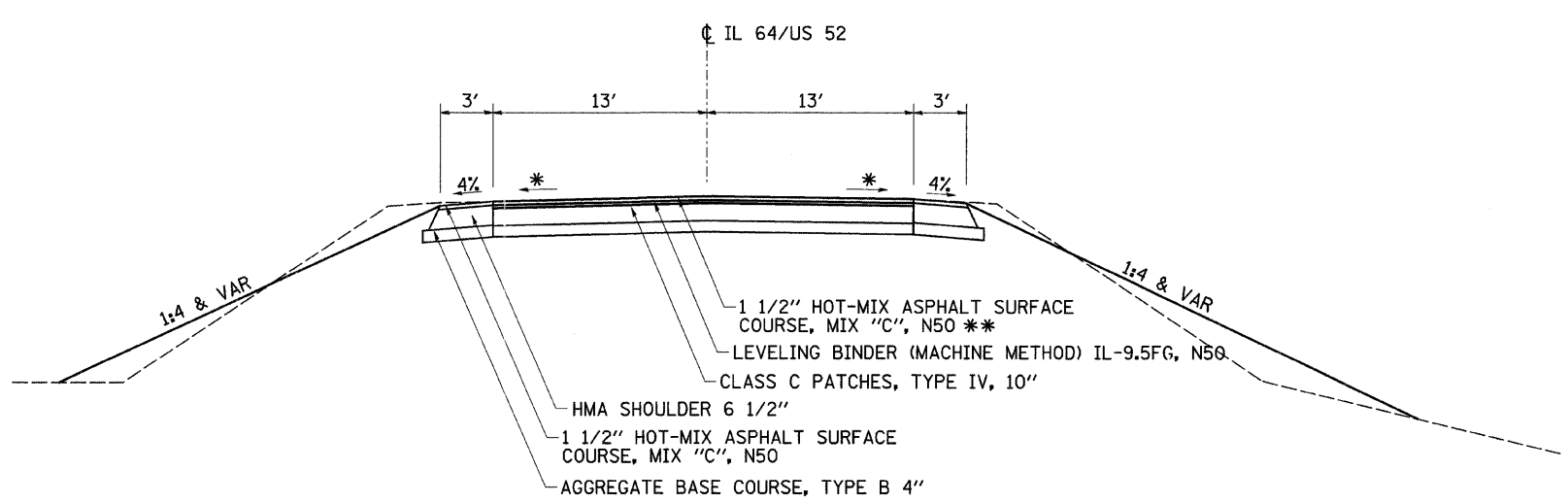
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

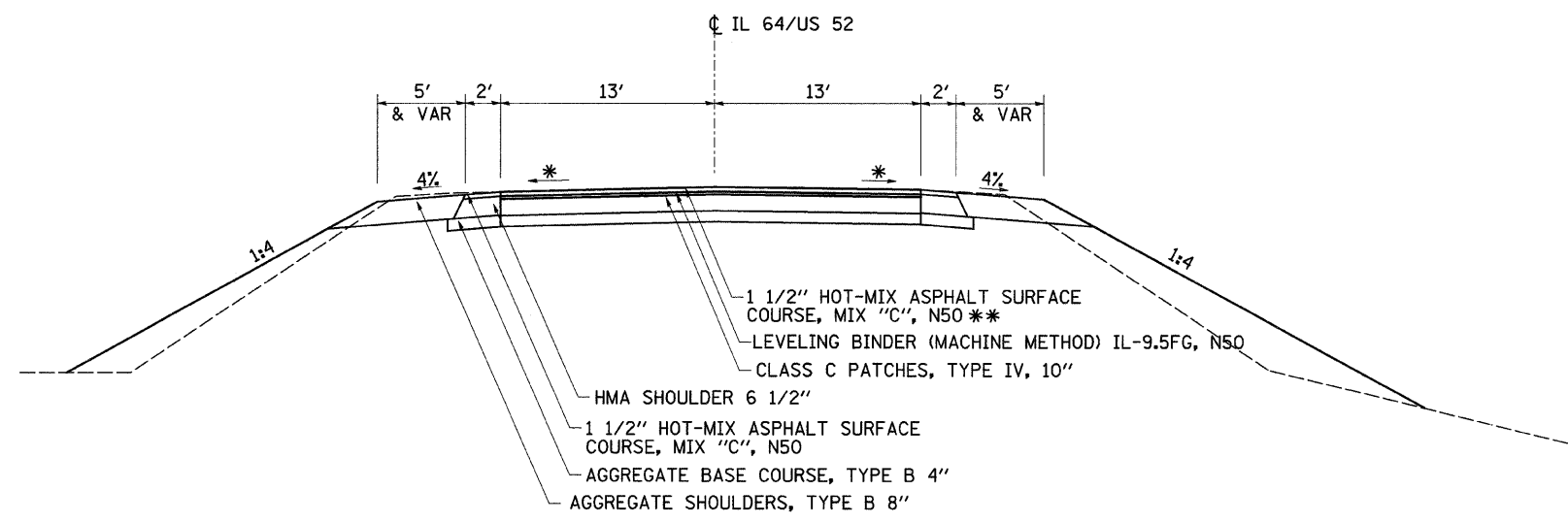
STA. 1209+70 TO STA. 1210+71.47
 STA. 1212+59.28 TO STA. 1213+80



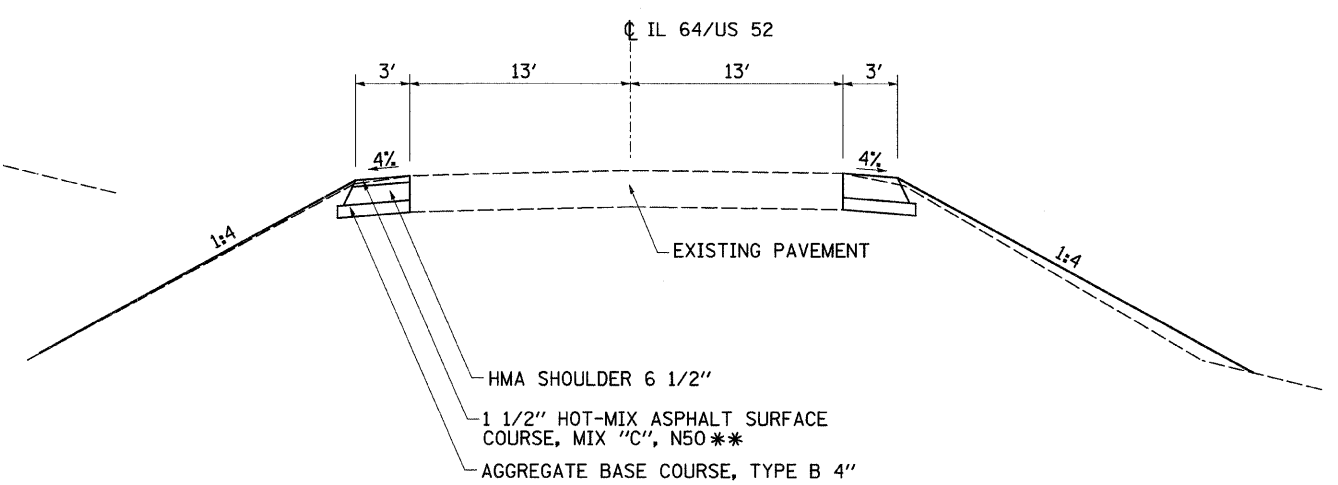
STA. 1239+00 - STA. 1241+50
 STA. 1358+90 - STA. 1359+43



STA. 1210+71.47 - STA. 1212+59.28



STA. 1356+64 TO STA. 1358+90
 STA. 1359+43 TO STA. 1360+75



* MATCH EXISTING MAINLINE SLOPE IN SUPER ELEVATED SECTIONS
 ** 112 LB/SQ YD IN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
 HORIZ.
 DATE

DRAWN BY
 CHECKED BY

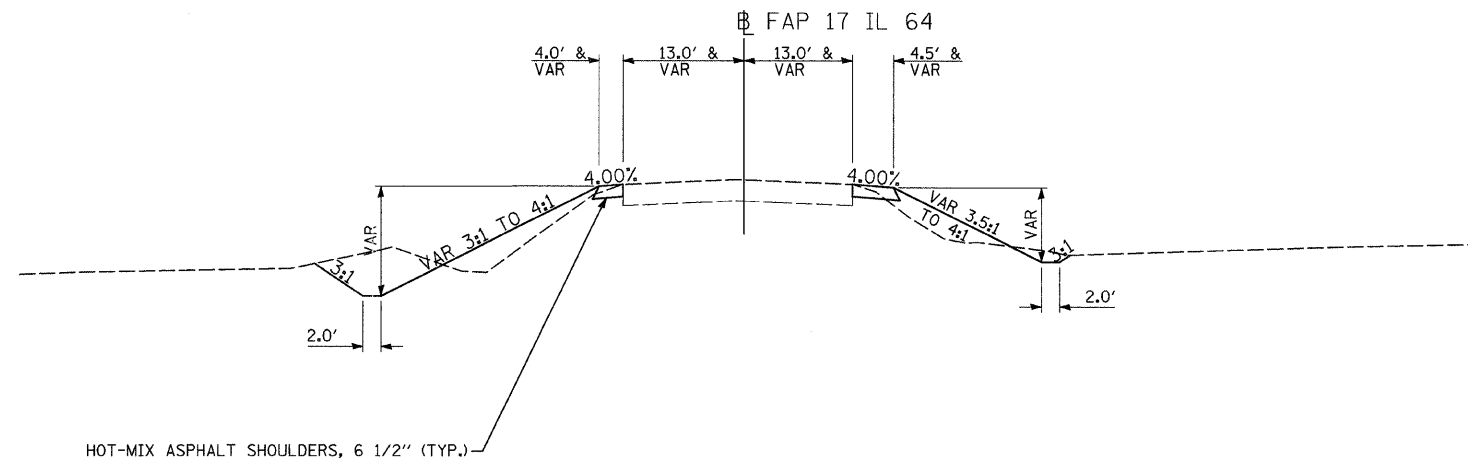
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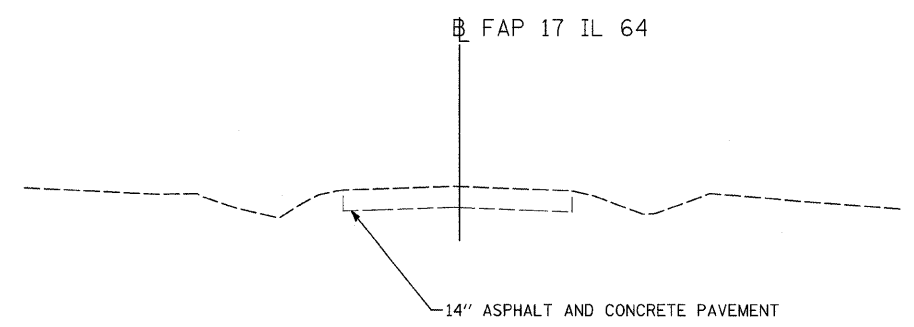
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17	15T-2	CARROLL	71	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPICAL SECTIONS

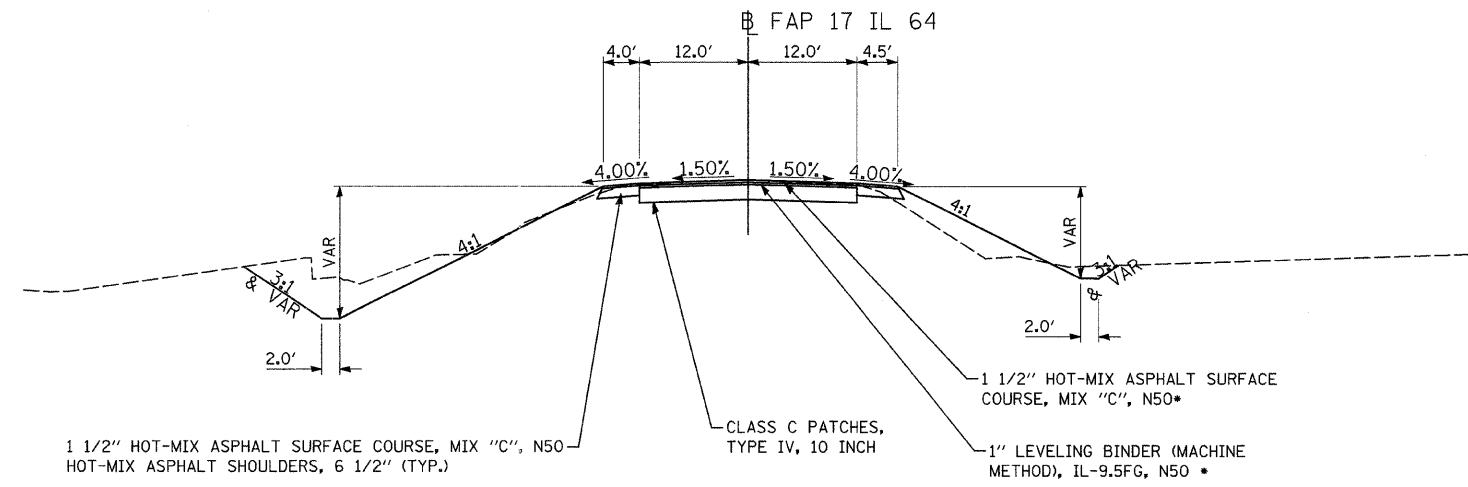
PROPOSED TYPICAL SECTION
IL RTE 64
LT. STA 1239+51 TO STA 1240+20 AND 1241+30 TO 1243+16
RT. STA 1239+60 TO STA 1240+20 AND 1241+30 TO 1243+19



EXISTING TYPICAL SECTION
IL RTE 64
STA 1239+51 TO STA 1243+19



PROPOSED TYPICAL SECTION
IL RTE 64
STA 1240+20 TO STA 1241+30



*112 LB/SQ YD/IN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____

DATE _____

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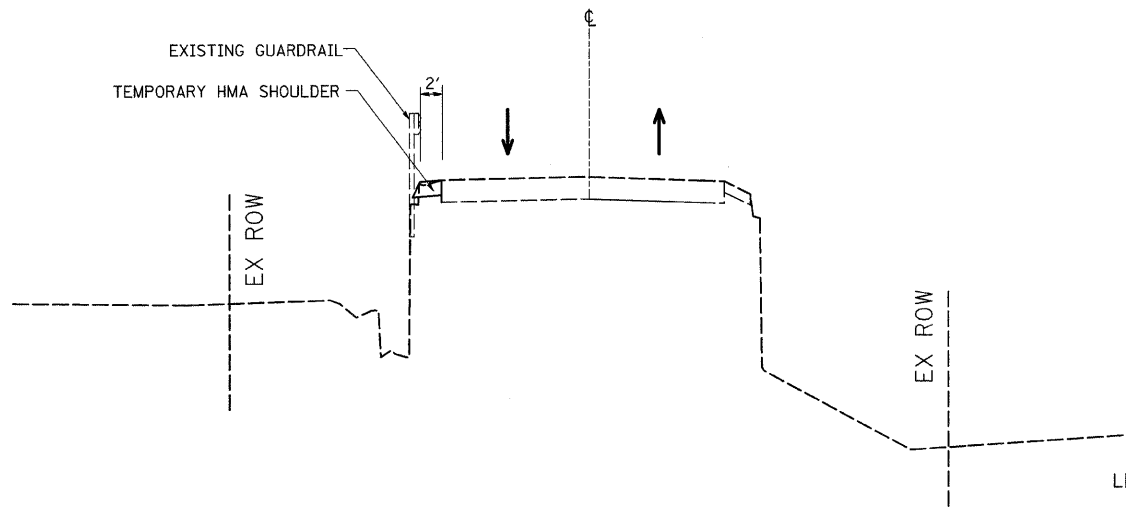
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING CULVERT TYPICALS

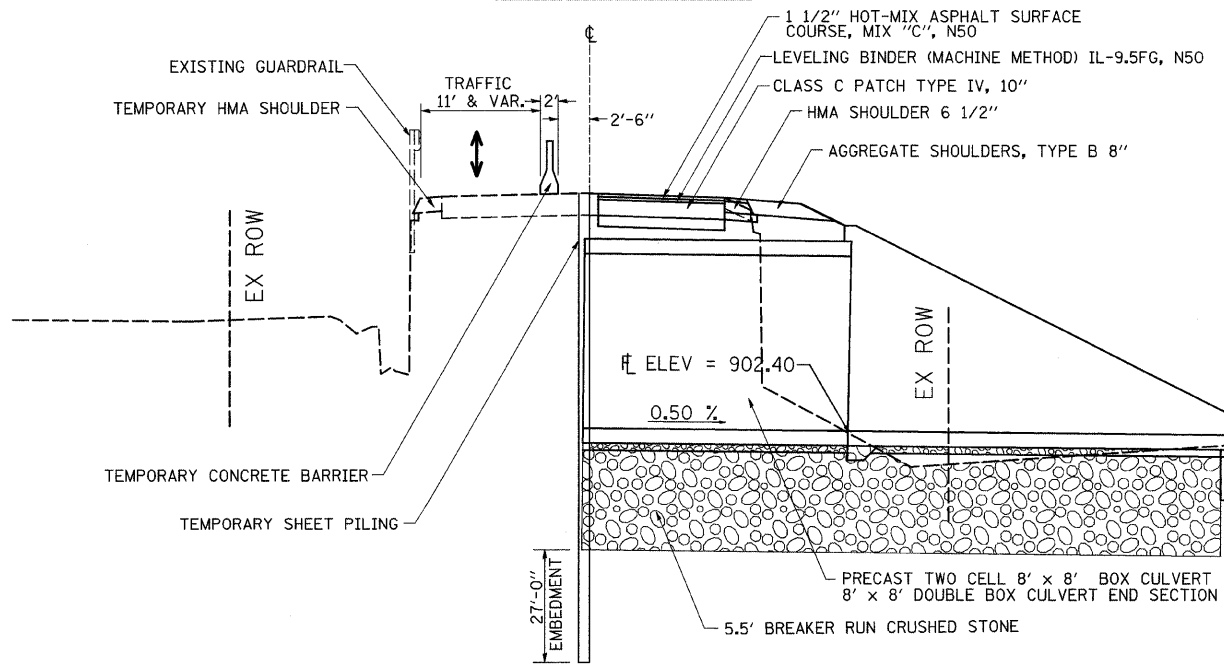
8'x8' Box Culvert @ 0° Skew

STA. 1211 + 65

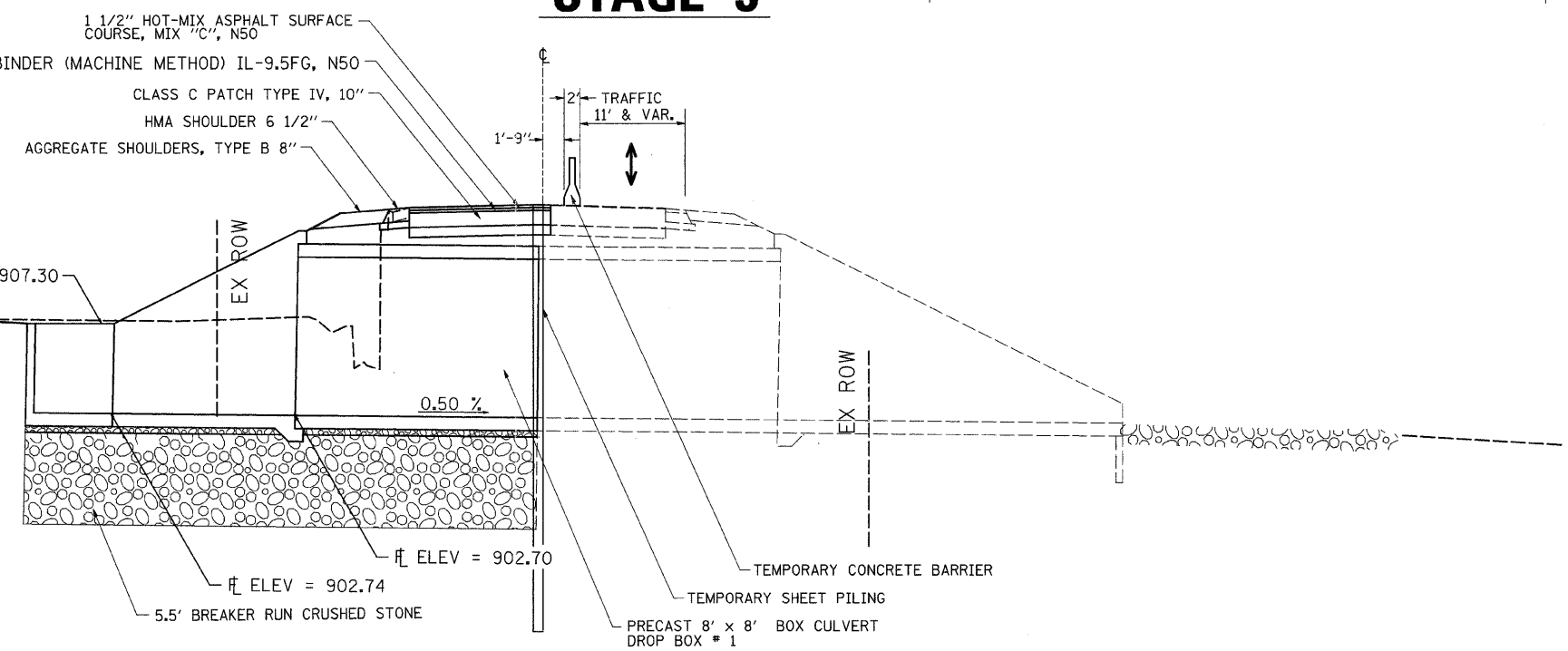
STAGE 1



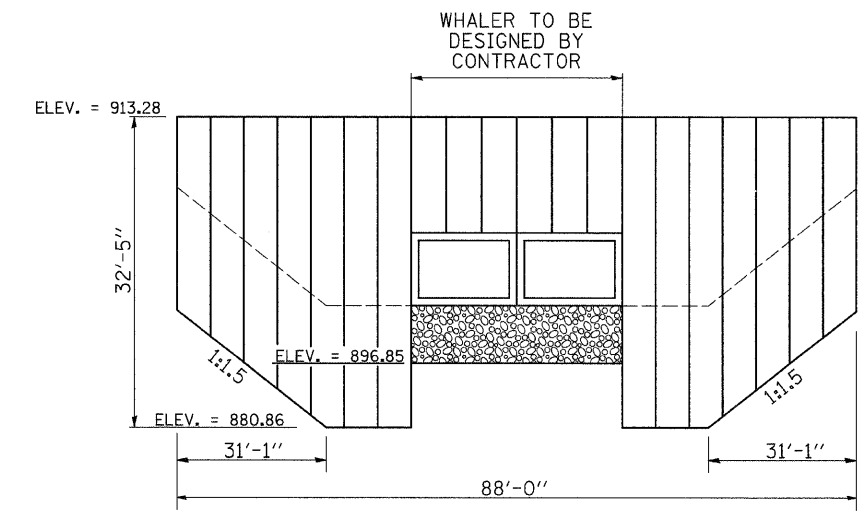
STAGE 2



STAGE 3



TEMPORARY SHEET PILING



- GENERAL NOTES:
- 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARD 701321.
 - 2) THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW IN A MANNER ACCEPTABLE TO THE ENGINEER.
 - 3) BARRIER WALL AND IMPACT ATTENUATORS SHALL BE SET UP AS SHOWN IN STANDARD 701321

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. / HORIZ.
DATE

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PLOT DATE = Mon Jan 28 07:51:02 2008
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USER NAME = hamontke

STAGING TYPICAL SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	12
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
11	1359 + 70	29' RT
11	TOTAL	

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION	OFFSET
45	1358 + 98	27' LT
45	1359 + 00	27' LT
50	1359 + 2	23' RT
35	1359 + 7	32' RT
36	1359 + 35	31' LT
39	1359 + 35	32' LT
49	1359 + 64	29' RT
37	1359 + 96	27' RT
43	1360 + 11	28' LT
45	1360 + 36	24' RT
424	TOTAL	

25000210 SEEDING CLASS 2 A

ACRE	LOCATION				
0.75	1209 + 70.0 - 1361 + 76	LT			
0.21	1209 + 70.0 - 1242 + 76	LT			
0.19	1209 + 70.0 - 1242 + 76	RT			
0.75	1209 + 70.0 - 1361 + 76	RT			
1.90	TOTAL				

25000310 SEEDING CLASS 4

ACRE	LOCATION				
0.15	1209 + 70.0 - 1361 + 76	LT			
0.09	1209 + 70.0 - 1242 + 76	LT			
0.02	1209 + 70.0 - 1242 + 76	RT			
0.10	1209 + 70.0 - 1361 + 76	RT			
0.36	TOTAL				

25000750 MOWING

ACRE	LOCATION				
0.75	1209 + 70.0 - 1361 + 76	LT			
0.21	1209 + 70.0 - 1242 + 76	LT			
0.19	1209 + 70.0 - 1242 + 76	RT			
0.75	1209 + 70.0 - 1361 + 76	RT			
1.90	TOTAL				

25100115 MULCH METHOD 2

ACRE	LOCATION				
0.75	1209 + 70.0 - 1361 + 76	LT			
0.21	1209 + 70.0 - 1242 + 76	LT			
0.19	1209 + 70.0 - 1242 + 76	RT			
0.75	1209 + 70.0 - 1361 + 76	RT			
1.90	TOTAL				

25100630 EROSION CONTROL BLANKET

SQ YD	LOCATION				
192	1238 + 00 - 1241 + 16	LT			
27	1239 + 60.0 - 1240 + 11	LT			
101	1242 + 00 - 1242 + 75	RT			
320	TOTAL				

25100900 TURF REINFORCEMENT MAT

SQ YD	LOCATION				
102	1210 + 25.0 - 1211 + 53	RT			
116	1211 + 72.0 - 1213 + 25	RT			
69	1211 + 80.0 - 1213 + 00	LT			
136	1241 + 37.0 - 1243 + 0	RT			
140	1241 + 37.0 - 1243 + 0	LT			
159	1357 + 00 - 1359 + 17	LT			
179	1356 + 75.0 - 1359 + 15	RT			
117	1359 + 17.0 - 1360 + 76	LT			
1018	TOTAL				

28000250 TEMPORARY EROSION CONTROL SEEDING

POUND	LOCATION				
1400	1209 + 70.0 - 1361 + 76	RT & LT			
1400.0	TOTAL				

28000300 TEMPORARY DITCH CHECKS

EACH	LOCATION				
1	1210 + 50.0	RT			
1	1210 + 75.0	RT			
1	1211 + 00	RT			
2	1212 + 00	RT & LT			
2	1212 + 25.0	RT & LT			
2	1212 + 50.0	RT & LT			
2	1212 + 75.0	RT & LT			
1	1213 + 00	RT			
1	1239	13.0	LT		
1	1240	10.0	RT		
1	1240	30.0	RT		
1	1240	62.0	RT		
1	1240	83.0	LT		
1	1240	99.0	RT		
1	1241	17.0	LT		
1	1241	36.0	RT		
1	1241	46.0	LT		
1	1241	57.0	RT		
1	1241	63.0	LT		
1	1241	78.0	LT		
1	1241	79.0	LT		
1	1241	96.0	LT		
1	1242	9.0	RT		
1	1242	12.0	LT		
1	1242	24.0	LT		
1	1242	67.0	RT		
1	1242	74.0	LT		
2	1357 + 00	RT & LT			
2	1357 + 25.0	RT & LT			
2	1357 + 50.0	RT & LT			
2	1357 + 75.0	RT & LT			
2	1358 + 00	RT & LT			
2	1358 + 25.0	RT & LT			
2	1358 + 50.0	RT & LT			
2	1358 + 75.0	RT & LT			
1	1359 + 00	LT			
1	1359 + 50.0	LT			
1	1359 + 75.0	LT			
1	1360 + 00	LT			
1	1360 + 25.0	LT			
1	1360 + 50.0	LT			
53	TOTAL				

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION				
180	1209 + 81.0 - 1211 + 47	LT			
193	1211 + 83.0 - 1213 + 64	LT			
180	1241 + 45.0 - 1243 + 19	LT			
160	1238 + 50.0 - 1240 + 0	RT			
184	1359 + 27.0 - 1361 + 00	RT			
897	TOTAL				

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SCHEDULE OF QUANTITIES

F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION		
1	1211 + 65.0		LT
1	1213 + 67.0		LT
1	1359 + 17.0		LT
1	1361 + 38.0		LT
4	TOTAL		

28100107 STONE RIPRAP CLASS A4

SQ YD	LOCATION		
68	1211 + 65.0		RT
59	1240 + 74.0		RT & LT
35	1359 + 17.0		RT
162	TOTAL		

28200200 FILTER FABRIC

SQ YD	LOCATION		
68	1211 + 65.0		RT
59	1240 + 74.0		RT & LT
35	1359 + 17.0		RT
162	TOTAL		

44004250 PAVED SHOULDER REMOVAL

SQ YD	LOCATION		
240	1356 + 98.7 - 1361 + 41.93		RT
240	TOTAL		

44201359 CLASS C PATCHES TYPE IV 10 INCH

SQ YD	LOCATION		
209	1211 + 29.00 - 1212 + 1		
294	1240 + 20 - 1241 + 30		
152	1358 + 90.00 - 1359 + 43		
655	TOTAL		

44213200 SAW CUTS

FOOT	LOCATION		
443	1356 + 98.7 - 1361 + 41.93		RT
443	TOTAL		

50100300 REMOVAL OF EXISTING STRUCTURES NO.1

EACH	LOCATION		
1	1211 + 65		
1	TOTAL		

50100400 REMOVAL OF EXISTING STRUCTURES NO.2

EACH	LOCATION		
1	1359 + 17		
1	TOTAL		

50300225 CONCRETE STRUCTURES

CY YD	LOCATION		
34.5	1211 + 65.00		LT
42.9	1211 + 65.00		RT
78	TOTAL		

50800105 REINFORCEMENT BARS

POUND	LOCATION		
12370	1211 + 65.00		
23260	1240 + 74		
35630	TOTAL		

50901760 PIPE HANDRAIL

FOOT	LOCATION		
37	1211 + 65.0		LT
37	TOTAL		

51205200 TEMPORARY SHEET PILING

SQ FT	LOCATION		
1804	1211 + 21 - 1212 + 9		
1711	1240 + 44 - 1241 + 3		
1709	1358 + 90 - 1359 + 43		
5224	TOTAL		

51500100 NAME PLATES

EACH	LOCATION		
1	1211 + 65		SN # 008-1015
1	1359 + 17		SN # 008-1015
1	1240 + 74		SN # 008-1015
3	TOTAL		

54003000 CONCRETE BOX CULVERTS

CY YD	LOCATION		
143	1240 + 74.00		RT & LT
143	TOTAL		

54010808 PRECAST CONCRETE BOX CULVERT 8' X 8'

FOOT	LOCATION		
100	1211 + 65		
100	TOTAL		

54213717 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 72"

EACH	LOCATION		
2	1359 + 16.8		RT & LT
2	TOTAL		

54215550 METAL END SECTIONS 15"

EACH	LOCATION		
2	1213 + 31		RT
2	1361 + 8		RT
4	TOTAL		

542A0277 PIPE CULVERTS CLASS A TYPE 1 72"

FOOT	LOCATION		
83	1359 + 16.8		
83	TOTAL		

542D0220 PIPE CULVERTS CLASS D TYPE 1 15"

FOOT	LOCATION		
56	1213 + 31		RT
54	1361 + 8		LT
110	TOTAL		

60100080 FRENCH DRAIN

CY YD	LOCATION		
9	1239 + 98		RT
9	TOTAL		

60100925 PIPE DRAINS 8"

	LOCATION		
34	1239 + 70 - 1239 + 98		RT
34	TOTAL		

61100500 EXPLORATION TRENCH 52" DEPTH

FOOT	LOCATION		
50	1211 + 40		LT
70	1239 + 31 - 1239 + 98		RT
24	1358 + 86		LT
144	TOTAL		

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SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	14
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

61101013 STORM SEWERS PROTECTED, CLASS A, 12"

EACH	LOCATION	
85	1239 + 75	
85	TOTAL	

61133100 FIELD TILE JUNCTION VAULTS, 2' DIA.

EACH	LOCATION		
1	1211 + 50		LT
1	1211 + 75		LT
2	1239 + 75		RT
1	1239 + 75		LT
1	1358 + 95		LT
6	TOTAL		

63100110 TRAFFIC BARRIER TERMINAL, TYPE II

EACH	LOCATION		
1	1240 + 10		LT
1	TOTAL		

63200310 GUARDRAIL REMOVAL

EACH	LOCATION		
277	1210 + 27.00 - 1213 + 4		RT
290	1210 + 27.00 - 1213 + 17		LT
100.5	1239 + 12.50 - 1240 + 13		RT
100.5	1239 + 34.50 - 1240 + 35		LT
275	1357 + 67.00 - 1360 + 42		RT
276	1357 + 79.00 - 1360 + 55		RT
1319.0	TOTAL		

63300575 REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARDRAIL

EACH	LOCATION		
55	1239 + 55 - 1240 + 10		LT
53	1239 + 60 - 1240 + 13		RT
108	TOTAL		

63500105 DELINEATORS

EACH	LOCATION		
2	1211 + 65.00		RT & LT
2	1240 + 74.00		RT & LT
2	1359 + 17.00		RT & LT
6	TOTAL		RT & LT

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION		
2	1210 + 00		RT & LT
2	1211 + 00		RT & LT
2	1211 + 25.00		RT & LT
1	1211 + 45.00		LT
1	1211 + 85.00		RT
2	1212 + 50.00		RT & LT
2	1214 + 00		RT & LT
1	1238 + 50.00		LT
1	1239 + 50.00		RT
1	1240 + 00		RT
1	1240 + 50.00		RT
1	1241 + 00		LT
1	1241 + 50.00		LT
2	1242 + 00		RT & LT
1	1243 + 00		LT
2	1357 + 00		RT & LT
2	1358 + 75.00		RT & LT
1	1359 + 00		RT
2	1359 + 50.00		RT & LT
2	1361 + 00		RT & LT
30	TOTAL		

66700305 PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION	
6	2 at each culvert location determined by R.E.	
6	TOTAL	

70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS

EACH	LOCATION	
1	1211 + 65.00	
1	1359 + 17.00	
1	1214 + 00	
3	TOTAL	

70106700 TEMPORARY RUMBLE STRIP

EACH	LOCATION	
1	1191 + 16.00	1211+65
1	1196 + 16.00	1211+65
1	1201 + 16.00	1211+65
1	1219 + 61.00	1240+74
1	1222 + 13.00	1211+65
1	1224 + 61.00	1240+74
1	1221 + 3.00	1211+65
1	1226 + 3.00	1240+74
1	1231 + 3.00	1211+65
1	1251 + 34.00	1240+74
1	1256 + 34.00	1240+74
1	1261 + 34.00	1240+74
1	1338 + 84.00	1359+16
1	1343 + 84.00	1359+16
1	1348 + 84.00	1359+16
1	1370 + 21.00	1359+16
1	1375 + 21.00	1359+16
1	1380 + 21.00	1359+16
18	TOTAL	

70300100 SHORT-TERM PAVEMENT MARKING

EACH	LOCATION	
846.3	1206 + 13.21 - 1214 + 57.31	Stage 2 4"
336.0	1209 + 94.03 - 1213 + 29.56	Stage 2 4"
639.8	1208 + 78.20 - 1215 + 15.86	Stage 3 4"
318.0	1209 + 99.03 - 1213 + 16.88	Stage 3 4"
222.0	1208 + 3.20 - 1215 + 15.86	CL 4"
24.0	1208 + 3.20	Stop Bar 12"
345.0	1239 + 61.00 - 1243 + 6	Stage 2 4"
627.0	1237 + 97.00 - 1244 + 24	Stage 2 4"
12.0	1237 + 87.00	Stop Bar 12"
12.0	1244 + 84.00	Stop Bar 12"
610.0	1238 + 63.00 - 1244 + 73	Stage 3 4"
339.0	1239 + 70.00 - 1243 + 9	Stage 3 4"
12.0	1238 + 3.00	Stop Bar 12"
12.0	1244 + 83.00	Stop Bar 12"
22.0	1240 + 20.00 - 1241 + 30	Stage 4 4"
661.0	1355 + 62.59 - 1362 + 22.81	Stage 2 4"
359.0	1357 + 32.82 - 1360 + 91.59	Stage 2 4"
777.7	1355 + 60.98 - 1363 + 36.41	Stage 3 4"
444.0	1356 + 98.68 - 1361 + 41.93	Stage 3 4"
240.0	1356 + 98.68	CL 4"
24.0	1355 + 1.00	Stop Bar 12"
6883	TOTAL	

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SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ. FT.	LOCATION
282.1	1206 + 13.21 - 1214 + 57.31 Stage 2
112.0	1209 + 94.03 - 1213 + 29.56 Stage 2
213.3	1208 + 78.20 - 1215 + 15.86 Stage 3
106.0	1209 + 99.03 - 1213 + 16.88 Stage 3
74.0	1208 3.20 - 1215 + 15.86 CL
115.0	1208 + 3.20 - 1243 6 Stage 2
209.0	1239 61.00 - 1244 24 Stage 2
12.0	1237 97.00 Stop Bar
12.0	1244 84.00 Stop Bar
204.0	1238 63.00 Stage 3
113.0	1239 70.00 Stage 3
12.0	1238 3.00 Stop Bar
12.0	1244 83.00 Stop Bar
8.0	1240 20.00 Stage 4
220.3	1355 + 62.59 - 1362 + 22.81 Stage 2
119.7	1357 + 32.82 - 1360 + 91.59 Stage 2
259.2	1355 + 60.98 - 1363 + 36.41 Stage 3
148.0	1356 + 98.68 - 1361 + 41.93 Stage 3
80.0	1356 + 98.68 - 1361 + 41.93 Stage 3
24.0	1355 + 1.00 Stop Bar
2336	TOTAL

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION
350	1209 + 90.0 - 1213 + 39 RT
374	1238 + 23.0 - 1243 + 30 RT & LT
274	1238 + 70.0 - 1242 + 84 LT
363	1357 + 35.0 - 1360 + 97 LT
1361	TOTAL

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION
275	1210 + 2 - 1212 + 77 RT
362	1239 + 55.0 - 1243 + 17 RT & LT
338	1356 + 86.0 - 1360 + 23 RT
975	TOTAL

78001100 PAINT PAVEMENT MARKING - LINE 4"

FOOT	LOCATION
1000	1206 + 00 - 1216 + 00 RT EDGE LINE
250	1206 + 00 - 1216 + 00 CL
1000	1206 + 00 - 1216 + 00 LT EDGE LINE
936	1239 + 1.0 - 1243 + 69 RT EDGE LINE
175	1237 + 87.0 - 1244 + 84 CL
900	1355 + 00 - 1364 + 00 RT EDGE LINE
225	1355 + 00 - 1364 + 00 CL
900	1355 + 00 - 1364 + 00 LT EDGE LINE
5386	TOTAL 10772 Is two coats

78100100 RAISED REFLECTIVE PAVEMENT MARKER

EACH	LOCATION
9	1208 + 00 - 1215 + 00 CL
3	1240 + 20.00 - 1241 + 30 CL
11	1355 + 00 - 1364 + 00 CL
23	TOTAL

78300100 PAVEMENT MARKING REMOVAL

SQ. FT.	LOCATION
25.0	1208 + 00 - 1211 + 00 CL
112.0	1209 + 94.00 - 1213 + 30 LT Edge LI
26.3	1212 + 00 - 1215 + 16 CL
112.0	1209 + 99.00 - 1213 + 35 RT Edge LI
115.0	1239 + 61.00 - 1243 + 6 RT
14.0	1237 + 87.00 - 1239 + 56 RT
20.0	1242 + 50.00 - 1244 + 84 RT
113.0	1239 + 70.00 - 1243 + 9 RT
28.2	1355 + 62.00 - 1359 + 00 CL
120.0	1357 + 32.00 - 1360 + 92 LT Edge LI
31.4	1359 + 60.00 - 1363 + 37 CL
148.0	1356 + 98.00 - 1361 + 42 RT Edge LI
865	TOTAL

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	LOCATION
9	1208 + 00 - 1215 + 00 CL
3	1240 + 20.00 - 1241 + 30 CL
11	1355 + 00 - 1364 + 00 CL
23	TOTAL

A2006514 TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER BALLED AND BURLAPPED

EACH	LOCATION
11	Landscape Engineer Will determine location
11	TOTAL

XX005298 REMOVE EXISTING TIMBER WALL

FOOT	LOCATION
105	1239 + 86.00 - 1240 + 85LT
105	TOTAL

Z0023600 FILLING EXISTING CULVERTS

EACH	LOCATION
1	1239 + 73.0
1	TOTAL

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION
1	1209 + 88.0 RT
1	1213 + 42.0 RT
1	1212 + 77.0 LT NARROW
1	1239 + 56.0 RT NARROW
1	1243 + 30.0 RT
1	1242 + 84.0 LT NARROW
1	1357 + 34.0 RT
1	1360 + 99.0 RT
1	1360 + 23.0 RT NARROW
9	TOTAL

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION
1	1209 + 98.0 LT
1	1239 + 55.0 LT NARROW
1	1243 + 17.0 LT
1	1356 + 85.0 LT
4	TOTAL

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BITUMINOUS /EARTHWORK SCHEDULE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

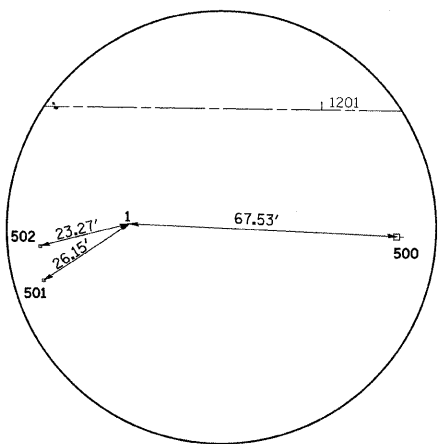
Station	Location	Remarks	Length	Proposed Surface		48101200 (8") Aggregate Shoulder, Type B	35101400 Aggregate Base Course Type B	40600627 Leveling Blinder (machine Method) IL-9.5FG, N50	20005400 BREAKER RUN CRUSHED STONE		48203023 Hot-Mix Asphalt Shoulders, 6 1/2"	40603310 HMA SC "C" N50	40600990 Temporary Ramp	X4810100 TEMPORARY SHOULDERS 3"
				Width	Sq Yd				TON	TON				
IL 64														
120970.00	121071.47	Lt & Rt Sta	1209 + 70 - 1210 + 71	Shoulder	101	2	22				22		3.8	
121071.47	121259.28	Lt & Rt Sta	1210 + 71 - 1212 + 59	Shoulder	188	2	42	57.1			42		7.0	
121259.28	121390.00	Lt & Rt Sta	1212 + 59 - 1213 + 80	Shoulder	121	2	27				27		4.5	
123951.00	124316.00	Lt & Rt Sta	1239 + 51 - 1243 + 16	Shoulder							16.3			
123960.00	124319.00	Lt & Rt Sta	1239 + 60 - 1243 + 19	Shoulder							180			
135664.00	136077.00	Lt Sta	1356 + 64 - 1360 + 77	Shoulder	413	3	138				138		23.1	
135664.00	136176.00	Rt Sta	1356 + 64 - 1361 + 76	Shoulder	512	9' & VAR	404				404		33.9	
Stage														
120971.27	121344.55	Lt & Rt Sta	1209 + 71 - 1213 + 45	Shoulder	373	3	124							124
123813.00	124262.00	Lt Sta	1238 + 13 - 1242 + 62	Shoulder	449	4.75	274							274
135720.00	136105.00	Lt & Rt Sta	1357 + 20 - 1361 + 5	Shoulder	385	3	128							128
121129.00	121201.00	Lt & Rt Sta	1211 + 29 - 1212 + 1	Mainline - Patch area	72	26	208		12				17.5	
124020.00	124130.00	Lt & Rt Sta	1240 + 20 - 1241 + 30	Mainline	95	26	274		17				33.0	
124020.00	124130.00	Lt & Rt Sta	1240 + 20 - 1241 + 30	Slope Correction	443	24	1181						3.0	
135890.00	135943.00	Lt & Rt Sta	1358 + 29 - 1359 + 43	Mainline - Patch area	53	26	153		8				12.9	
121129.00	121134.00	Lt & Rt Sta	1211 + 29 - 1211 + 34	Temporary Ramp	5	30	17						17	
121196.00	121201.00	Lt & Rt Sta	1211 + 96 - 1212 + 1	Temporary Ramp	5	30	17						17	
135890.00	135895.00	Lt & Rt Sta	1358 + 90 - 1358 + 95	Temporary Ramp	5	38	21						21	
135938.00	135943.00	Lt & Rt Sta	1359 + 38 - 1359 + 43	Temporary Ramp	5	38	21						21	
124020.00		Lt & Rt Sta	1240 + 20	Temporary Ramp									54	
124130.00		Lt & Rt Sta	1241 + 30	Temporary Ramp									54	
121165.00			1211 + 65	Culvert	112	21	261		66	983				
124074.00			1240 + 74	Culvert					38	494				
135917.00			1359 + 17	Culvert	100	8	89		12	61				
121334.00		Lt Sta	1213 + 34	Field Entrance			96			10.9				
136106.00		Lt Sta	1361 + 6	Field Entrance			105			10.9				
Subtotal														
TOTALS														
						57	290	37	1,538	976	139	184	526	

LOCATION	20200100		20201200.0			20400800	
	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF USUITABLE MATERIAL	EMBANKMENT	EARTHWORK	
						BALANCE	FURNISHED EXCAVATION
(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
PRE-STAGE	1239+55 TO 1242+66	11.7	8.8		72.6	-63.8	
	1209+00 TO 1215+00	300.4	225.3		422.2	-196.9	
STAGE II	1238+50 TO 1242+75	111.4	83.6		237.1	-153.6	
	1356+00 TO 1362+00	113.9	85.4		1384.9	-1299.5	
	1209+00 TO 1215+00	71.0	53.3		235.5	-182.3	
STAGE III	1238+50 TO 1242+75	130.0	97.5		159.4	-61.9	
	1356+00 TO 1362+00	253.1	189.8		395.0	-205.2	
STAGE IV	1238+50 TO 1242+75	54.1	40.5		415.5	-375.0	
	1356+00 TO 1362+00	486.9	365.2		5.3	359.9	
	1211+65			479.0			
	1240+74			330.0			
	1359+16.8			30.0			
	TOTALS	1532.5	1140.6	839.0	3254.9	-2114.4	2114.4

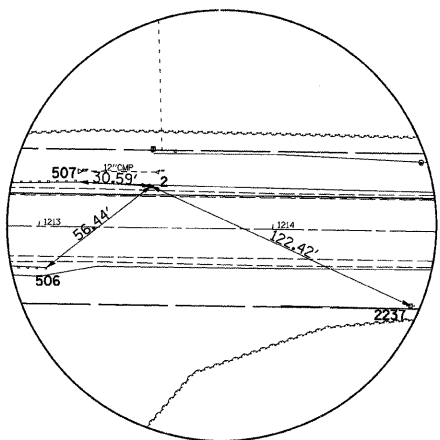
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HORIZONTAL & VERTICAL CONTROL

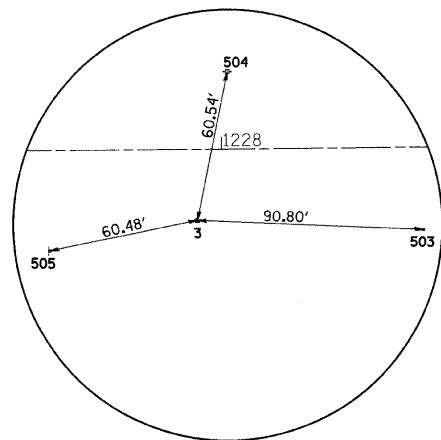
F.A.P. RTE. 17	SECTION 15T-2	COUNTY CARROLL	TOTAL SHEETS 71	SHEET NO. 17
STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



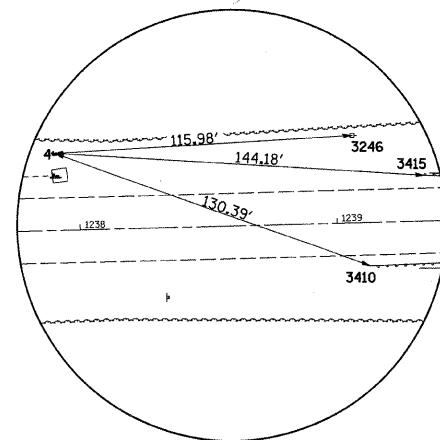
HORIZONTAL CONTROL POINT NO. 1



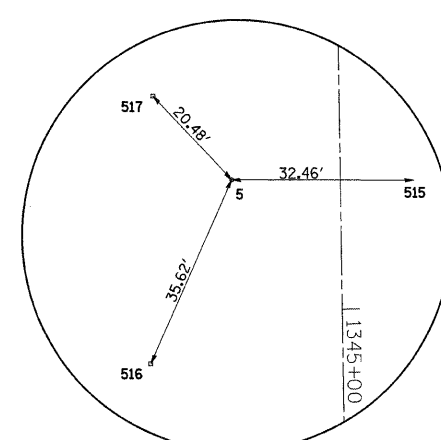
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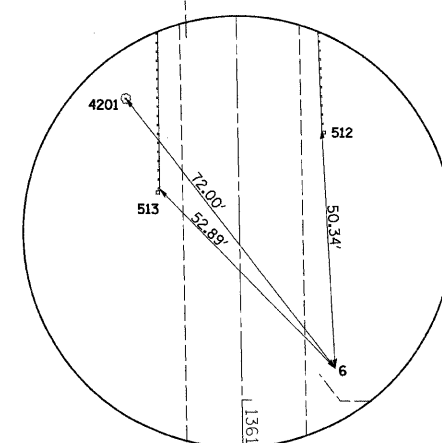
HORIZONTAL CONTROL POINT NO. 3



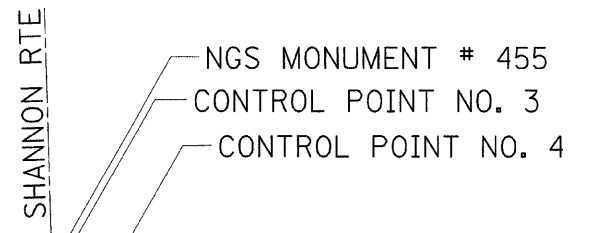
HORIZONTAL CONTROL POINT NO. 4



HORIZONTAL CONTROL POINT NO. 5



HORIZONTAL CONTROL POINT NO. 6



- NGS MONUMENT # 455
- CONTROL POINT NO. 3
- CONTROL POINT NO. 4
- CONTROL POINT NO. 5
- CONTROL POINT NO. 6

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	IL64	1201+19.3163	31.3855' RT	POWER POLE
501	IL64	1200+30.5154	43.4428' RT	FENCE POST
502	IL64	1200+29.5012	34.8143' RT	FENCE POST
503	IL64	1228+80.7239	32.8917' RT	FENCE POST
504	IL64	1228+02.6414	31.032' LT	POWER POLE
505	IL64	1227+30.9105	40.0453' RT	SIGN
506	IL64	1213+03.7698	17.6512' RT	GUARDRAIL STEEL PLATE BEAM, END
507	IL64	1213+17.2446	19.9064' LT	GUARDRAIL STEEL PLATE BEAM, END
508	IL64	1213+48.3566	33.4121' LT	R.O.W. MARKER, BACK
509	IL64	1237+31.5863	29.4658' LT	POWER POLE
510	IL64	1237+62.7553	33.208' LT	PROPERTY CORNER, PIN
511	IL64	1237+90.9823	21.1615' LT	1.5' PIPE CULVERT, END
512	IL64	1360+43.9485	18.1549' LT	GUARDPOST
513	IL64	1360+56.0655	17.0881' RT	GUARDPOST
514	IL64	1360+10.5137	28.3457' LT	TREE DECIDUOUS
515	IL64	1344+77.3641	13.0646' LT	PAVEMENT
516	IL64	1345+09.1103	34.2919' RT	FENCE POST
517	IL64	1344+61.6465	33.2142' RT	FENCE POST, CORNER

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	1977954.4880	2408464.1200	932.6800	IL64	1200+51.8546	28.3305' RT	POWER POLE
455	1978048.8220	2411063.7220	932.4930	IL64	1227+19.6250	98.2152' LT	NGS MONUMENT

CURVE POINT NUMBERS						
CHAIN	CURVE	PI	CC	PC	PT	
IL64	200	200	201	202	203	
IL64	210	210	211	212	213	
IL64	220	220	221	222	223	
IL64	230	230	231	232	233	
IL64	240	240	241	242	243	
IL64	250	250	251	252	253	
IL64	260	260	261	262	263	
IL64	270	270	271	272	273	
IL64	280	280	281	282	283	

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
7	1978020.7240	2409543.5930	909.2300	IL64	1211+97.8643	53.7745' LT	NAIL
8	1977909.1770	2409466.8160	909.0310	IL64	1211+22.8033	58.9344' RT	NAIL
9	1975467.8710	2421836.5880	933.7850	IL64	1359+37.0115	82.9552' LT	NAIL
10	1975481.7850	2421571.9870	928.1250	IL64	1359+18.8534	181.3884' RT	NAIL

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1977956.1660	2408396.4610	931.4030	IL64	1200+51.8546	28.3305' RT	GPS CONTROL POINT
2	1977982.4570	2409692.7290	913.9350	IL64	1213+47.5685	17.7942' LT	GPS CONTROL POINT
3	1977922.9870	2411135.1920	932.1630	IL64	1227+90.1443	28.2043' RT	GPS CONTROL POINT
4	1978003.4030	2412134.4590	926.4960	IL64	1237+90.7340	29.7641' LT	GPS CONTROL POINT
5	1976926.2980	2421710.8200	977.2410	IL64	1344+76.7542	19.3938' RT	GPS CONTROL POINT
6	1975310.2600	2421775.9190	940.0460	IL64	1360+93.6287	19.7649' LT	GPS CONTROL POINT

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

HORIZONTAL & VERTICAL CONTROL

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 USER NAME = henryk

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EXISTING CONTROL

Chain IL64 contains:
20 CUR 200 CUR 210 CUR 220 CUR 230 CUR 240 CUR 250 CUR 260 CUR 270 CUR 280 67

Beginning chain IL64 description

Point 20 N 1,977,620.8680 E 2,390,095.1020 Sta 1016+91.2792

Course from 20 to PC 200 87° 16' 45.3340" Dist 218.5886'

Curve Data

Curve 200
P.I. Station 1024+09.8678 N 1,977,654.9780 E 2,390,812.8806
Delta = 1° 05' 52.3105" (RT)
Degree = 0° 06' 35.2431"
Tangent = 500.0000'
Length = 999.9694'
Radius = 52,186.8141'
External = 2.3952'
Long Chord = 999.9541'
Mid. Ord. = 2.3951'
P.C. Station 1019+09.8678 N 1,977,631.2440 E 2,390,313.4442
P.T. Station 1029+09.8372 N 1,977,669.1384 E 2,391,312.6800
C.C. N 1,925,503.2570 E 2,392,790.6498

Course from PT 200 to PC 210 88° 22' 37.6445" Dist 3,372.2237'

Curve Data

Curve 210
P.I. Station 1065+58.4616 N 1,977,772.4702 E 2,394,959.8410
Delta = 13° 38' 43.9351" (RT)
Degree = 2° 28' 48.6037"
Tangent = 276.4007'
Length = 550.1861'
Radius = 2,310.1575'
External = 16.4763'
Long Chord = 548.8867'
Mid. Ord. = 16.3597'
P.C. Station 1062+82.0609 N 1,977,764.6423 E 2,394,683.5511
P.T. Station 1068+32.2470 N 1,977,714.8963 E 2,395,230.1789
C.C. N 1,975,455.4114 E 2,394,748.9765

Course from PT 210 to PC 220 102° 01' 21.5796" Dist 662.8507'

Curve Data

Curve 220
P.I. Station 1080+41.2976 N 1,977,463.0528 E 2,396,412.7094
Delta = 26° 53' 24.9378" (LT)
Degree = 2° 30' 28.0000"
Tangent = 546.1999'
Length = 1,072.2745'
Radius = 2,284.7232'
External = 64.3818'
Long Chord = 1,062.4605'
Mid. Ord. = 62.6173'
P.C. Station 1074+95.0977 N 1,977,576.8255 E 2,395,878.4902
P.T. Station 1085+67.3721 N 1,977,603.2002 E 2,396,940.6233
C.C. N 1,979,811.4339 E 2,396,354.3947

Course from PT 220 to PC 230 75° 07' 56.6418" Dist 579.1505'

Curve Data

Curve 230
P.I. Station 1094+18.5366 N 1,977,821.5973 E 2,397,763.2919
Delta = 13° 35' 34.2243" (RT)
Degree = 2° 30' 37.2256"
Tangent = 272.0140'
Length = 541.4740'
Radius = 2,282.3908'
External = 16.1521'
Long Chord = 540.2050'
Mid. Ord. = 16.0386'
P.C. Station 1091+46.5226 N 1,977,751.8023 E 2,397,500.3846
P.T. Station 1096+87.9966 N 1,977,827.6488 E 2,398,035.2386
C.C. N 1,975,545.8229 E 2,398,086.0147

Course from PT 230 to PC 240 88° 43' 30.8661" Dist 7,945.4945'

Curve Data

Curve 240
P.I. Station 1180+88.6563 N 1,978,014.5375 E 2,406,433.8191
Delta = 2° 09' 05.7206" (RT)
Degree = 0° 14' 10.9692"
Tangent = 455.1652'
Length = 910.2234'
Radius = 24,238.8102'
External = 4.2733'
Long Chord = 910.1699'
Mid. Ord. = 4.2725'
P.C. Station 1176+33.4911 N 1,978,004.4115 E 2,405,978.7666
P.T. Station 1185+43.7145 N 1,978,007.5722 E 2,406,888.9310
C.C. N 1,953,771.6003 E 2,406,518.0053

Course from PT 240 to PC 250 90° 52' 36.5867" Dist 3,552.8260'

Curve Data

Curve 250
P.I. Station 1226+80.8465 N 1,977,944.2618 E 2,411,025.5786
Delta = 2° 23' 37.8683" (LT)
Degree = 0° 12' 17.5521"
Tangent = 584.3060'
Length = 1,168.4420'
Radius = 27,966.1346'
External = 6.1034'
Long Chord = 1,168.3570'
Mid. Ord. = 6.1021'
P.C. Station 1220+96.5405 N 1,977,953.2034 E 2,410,441.3410
P.T. Station 1232+64.9825 N 1,977,959.7307 E 2,411,609.6798
C.C. N 2,005,916.0632 E 2,410,869.3058

Course from PT 250 to PC 260 88° 28' 58.7184" Dist 4,021.6493'

Curve Data

Curve 260
P.I. Station 1277+86.6318 N 1,978,079.4366 E 2,416,129.7443
Delta = 0° 27' 02.5867" (LT)
Degree = 0° 02' 42.2595"
Tangent = 500.0000'
Length = 999.9948'
Radius = 127,120.3218'
External = 0.9833'
Long Chord = 999.9923'
Mid. Ord. = 0.9833'
P.C. Station 1272+86.6318 N 1,978,066.1996 E 2,415,629.9195
P.T. Station 1282+86.6267 N 1,978,096.6050 E 2,416,629.4495
C.C. N 2,105,141.9662 E 2,412,264.5429

Course from PT 260 to PC 270 88° 01' 56.1730" Dist 4,543.8203'

Curve Data

Curve 270
P.I. Station 1333+68.8079 N 1,978,271.1099 E 2,421,708.6339
Delta = 91° 02' 53.8411" (RT)
Degree = 10° 50' 20.9563"
Tangent = 538.3610'
Length = 839.9944'
Radius = 528.6001'
External = 225.8869'
Long Chord = 754.3607'
Mid. Ord. = 158.2583'
P.C. Station 1328+30.4470 N 1,978,252.6244 E 2,421,170.5904
P.T. Station 1336+70.4413 N 1,977,732.8182 E 2,421,717.2727
C.C. N 1,977,724.3360 E 2,421,188.7407

Course from PT 270 to PC 280 179° 04' 50.0100" Dist 6,201.6750'

Curve Data

Curve 280
P.I. Station 1403+72.1163 N 1,971,032.0061 E 2,421,824.8118
Delta = 0° 47' 30.7860" (LT)
Degree = 0° 04' 45.0831"
Tangent = 500.0000'
Length = 999.9841'
Radius = 72,352.5110'
External = 1.7276'
Long Chord = 999.9761'
Mid. Ord. = 1.7276'
P.C. Station 1398+72.1163 N 1,971,531.9417 E 2,421,816.7885
P.T. Station 1408+72.1004 N 1,970,532.2291 E 2,421,839.7437
C.C. N 1,972,692.9532 E 2,494,159.9837

Course from PT 280 to 67 178° 17' 19.2240" Dist 2,502.5003'

Point 67 N 1,968,030.8450 E 2,421,914.4780 Sta 1433+74.6007

Ending chain IL64 description

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

HORIZONTAL & VERTICAL CONTROL

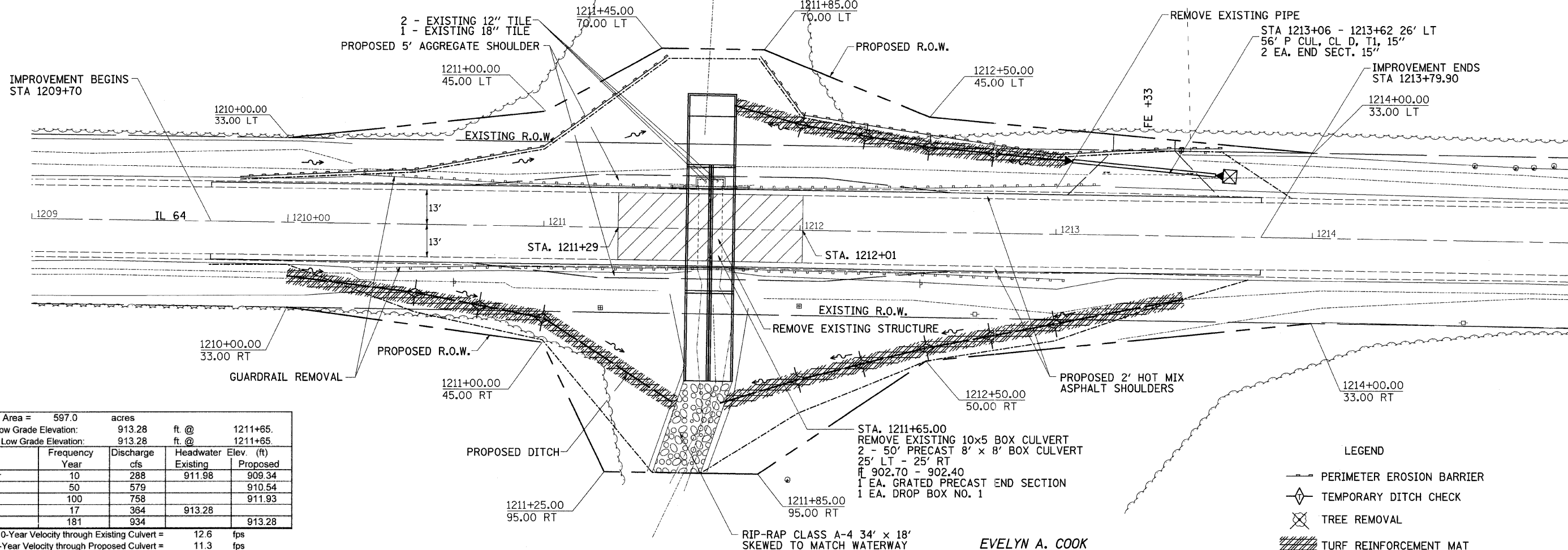
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	19
STA.		TO STA.		
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				

LAMOINE & ROSE MOLL

STA. 1211+65 TWO CELL 8' x 8' BOX CULVERT

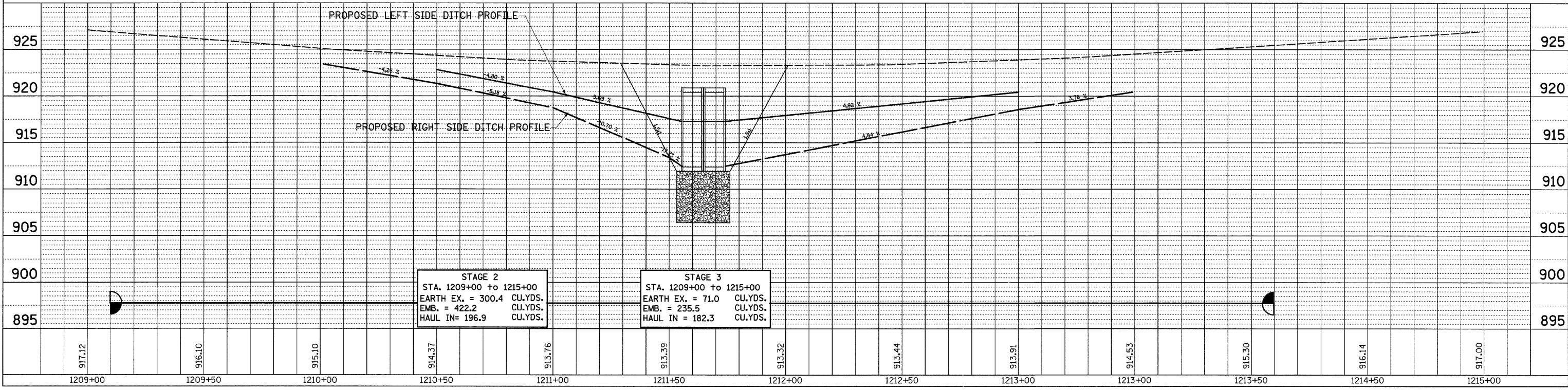
EVELYN A. COOK



Drainage Area = 597.0 acres				
Existing Low Grade Elevation:		913.28	ft. @	1211+65.
Proposed Low Grade Elevation:		913.28	ft. @	1211+65.
Flood Year	Frequency	Discharge cfs	Headwater Elev. (ft)	
Ten-Year	10	288	Existing	Proposed
Design	50	579	911.98	909.34
Base	100	758	910.54	911.93
OVT (E)	17	364	913.28	913.28
OVT (P)	181	934	913.28	913.28
10-Year Velocity through Existing Culvert =			12.6	fps
10-Year Velocity through Proposed Culvert =			11.3	fps

STA. 1211+65.00
 REMOVE EXISTING 10x5 BOX CULVERT
 2 - 50' PRECAST 8' x 8' BOX CULVERT
 25' LT - 25' RT
 1 EA. GRATED PRECAST END SECTION
 1 EA. DROP BOX NO. 1

- LEGEND**
- PERIMETER EROSION BARRIER
 - TEMPORARY DITCH CHECK
 - TREE REMOVAL
 - TURF REINFORCEMENT MAT



DATE: _____ BY: _____
 CHECKED: _____
 DATE: _____ BY: _____
 PLAN NO.: _____

DATE: _____ BY: _____
 CHECKED: _____
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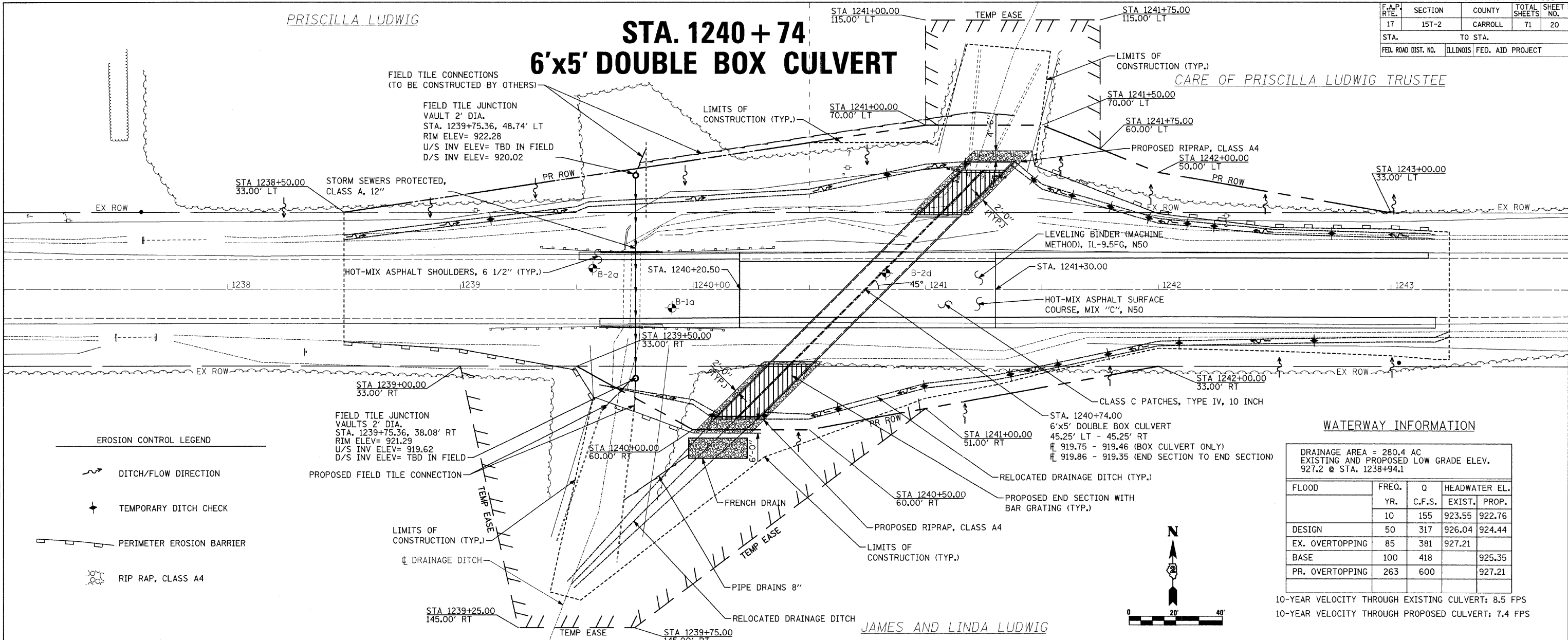
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	20
STA. 1237+50 TO STA. 1243+00		ILLINOIS FED. AID PROJECT		

STA. 1240+74 6'x5' DOUBLE BOX CULVERT

PRISCILLA LUDWIG

CARE OF PRISCILLA LUDWIG TRUSTEE

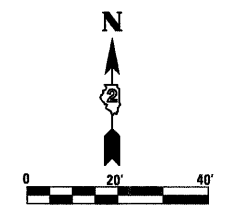


WATERWAY INFORMATION

DRAINAGE AREA = 280.4 AC
EXISTING AND PROPOSED LOW GRADE ELEV.
927.2 @ STA. 1238+94.1

FLOOD	FREQ. YR.	Q C.F.S.	HEADWATER EL.	
			EXIST.	PROP.
	10	155	923.55	922.76
DESIGN	50	317	926.04	924.44
EX. OVERTOPPING	85	381	927.21	
BASE	100	418		925.35
PR. OVERTOPPING	263	600		927.21

10-YEAR VELOCITY THROUGH EXISTING CULVERT: 8.5 FPS
10-YEAR VELOCITY THROUGH PROPOSED CULVERT: 7.4 FPS



PLAN

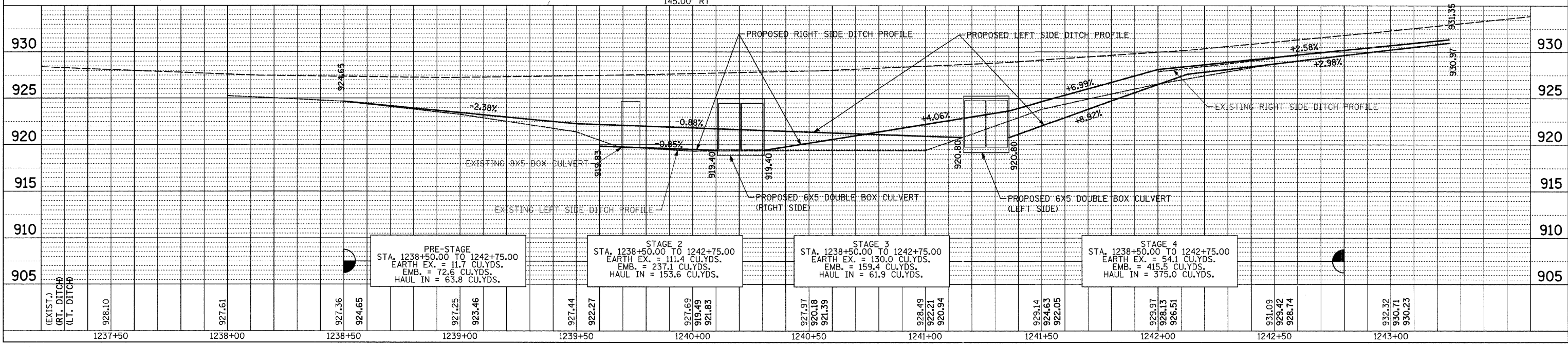
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PROFILE

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USER NAME = hemsante



STA. 1240+74 6'x5' DOUBLE BOX CULVERT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

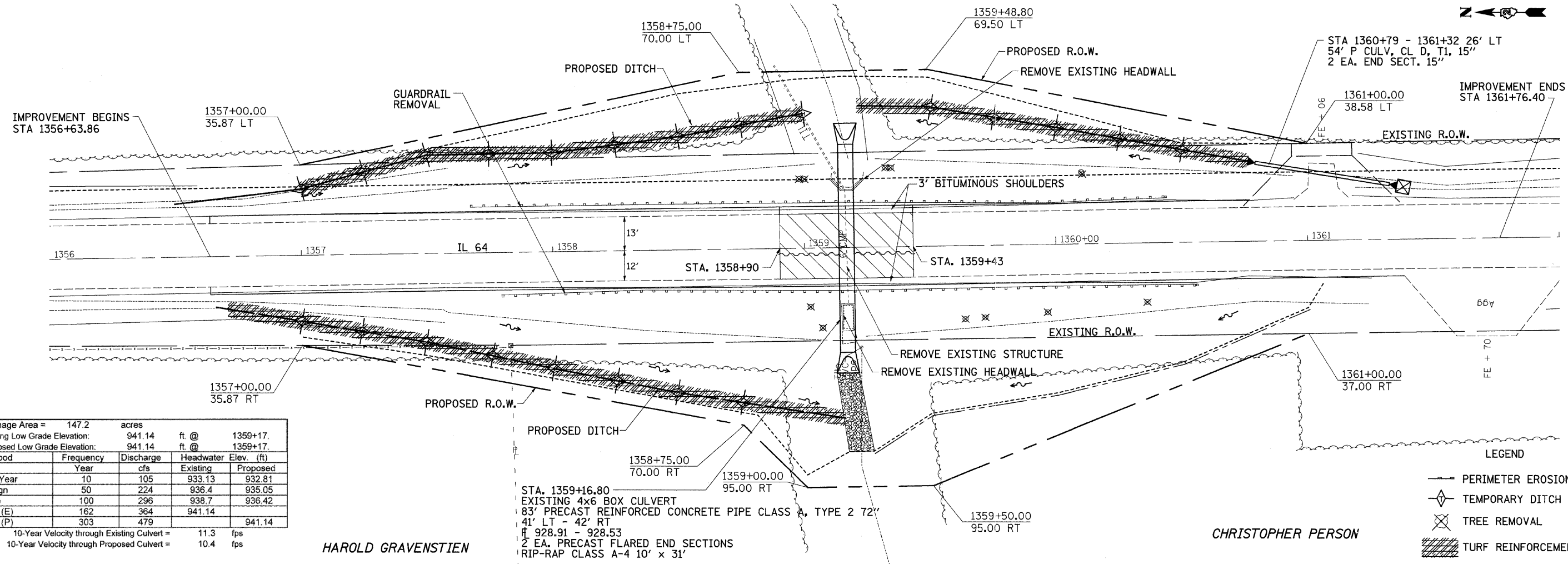
JAMES & LINDA LUDWIG

STA. 1359 + 16.80 6' DIA. CONCRETE PIPE

PLAN
SURVEYED BY: _____ DATE: _____
PLOTTED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
NOTE BOOK NO. _____
CADD FILE NAME: _____

PROFILE
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PLOTTED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
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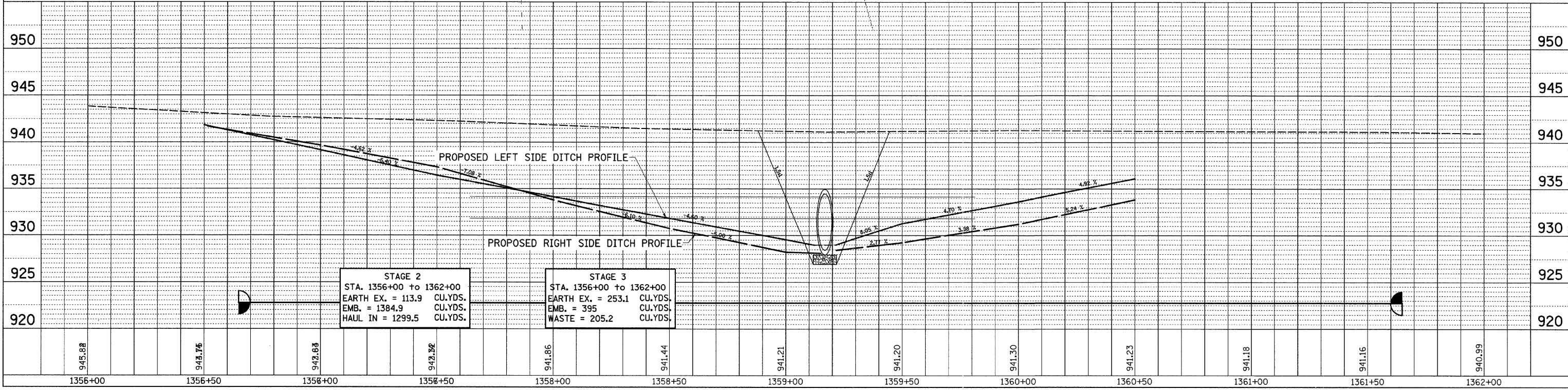
Drainage Area = 147.2 acres				
Existing Low Grade Elevation:		941.14	ft. @	1359+17.
Proposed Low Grade Elevation:		941.14	ft. @	1359+17.
Flood Year	Frequency	Discharge cfs	Headwater Elev. (ft)	
			Existing	Proposed
Ten-Year	10	105	933.13	932.81
Design	50	224	936.4	935.05
Base	100	296	938.7	936.42
OVT (E)	162	364	941.14	
OVT (P)	303	479		941.14
10-Year Velocity through Existing Culvert =			11.3	fps
10-Year Velocity through Proposed Culvert =			10.4	fps

STA. 1359+16.80
EXISTING 4x6 BOX CULVERT
83' PRECAST REINFORCED CONCRETE PIPE CLASS A, TYPE 2 72"
41' LT - 42' RT
± 928.91 - 928.53
2 EA. PRECAST FLARED END SECTIONS
RIP-RAP CLASS A-4 10' x 31'

HAROLD GRAVENSTIEN

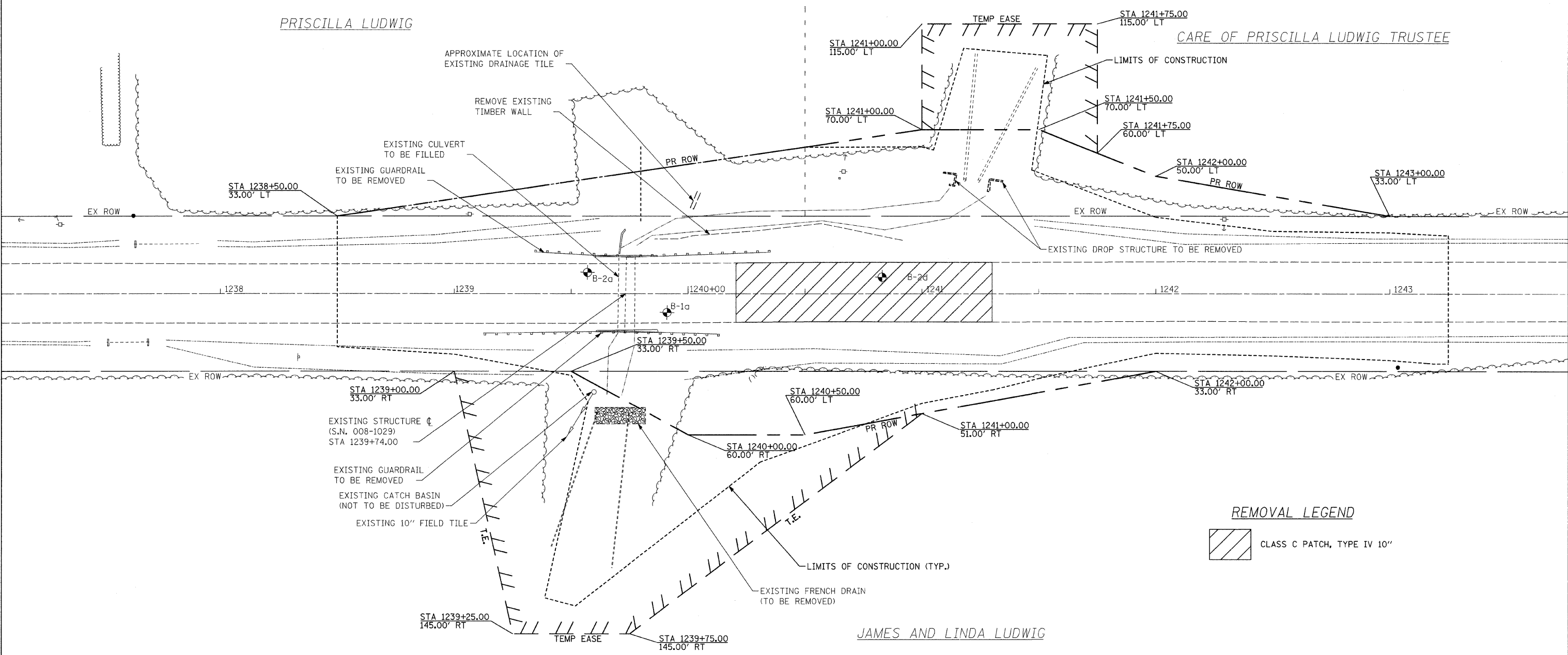
CHRISTOPHER PERSON

- LEGEND
- PERIMETER EROSION BARRIER
 - ◇ TEMPORARY DITCH CHECK
 - ⊗ TREE REMOVAL
 - ▨ TURF REINFORCEMENT MAT



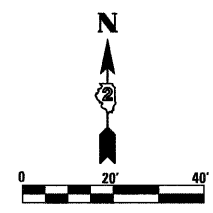
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STA. 1240+74 6'x5' DOUBLE BOX CULVERT



REMOVAL LEGEND

CLASS C PATCH, TYPE IV 10"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

DATE _____

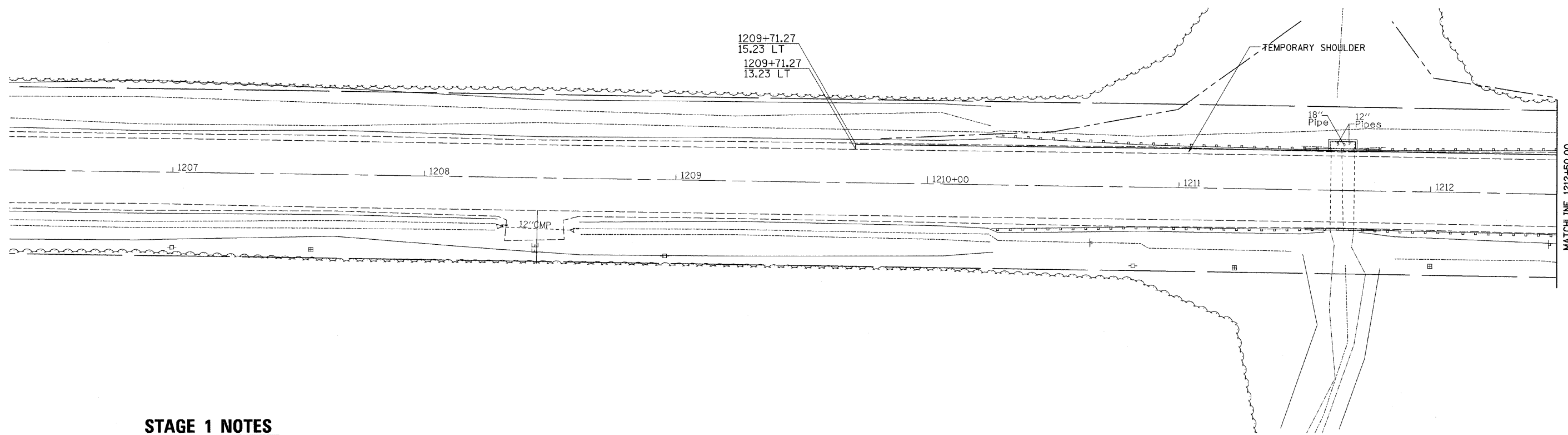
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 USER NAME = hensonk

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

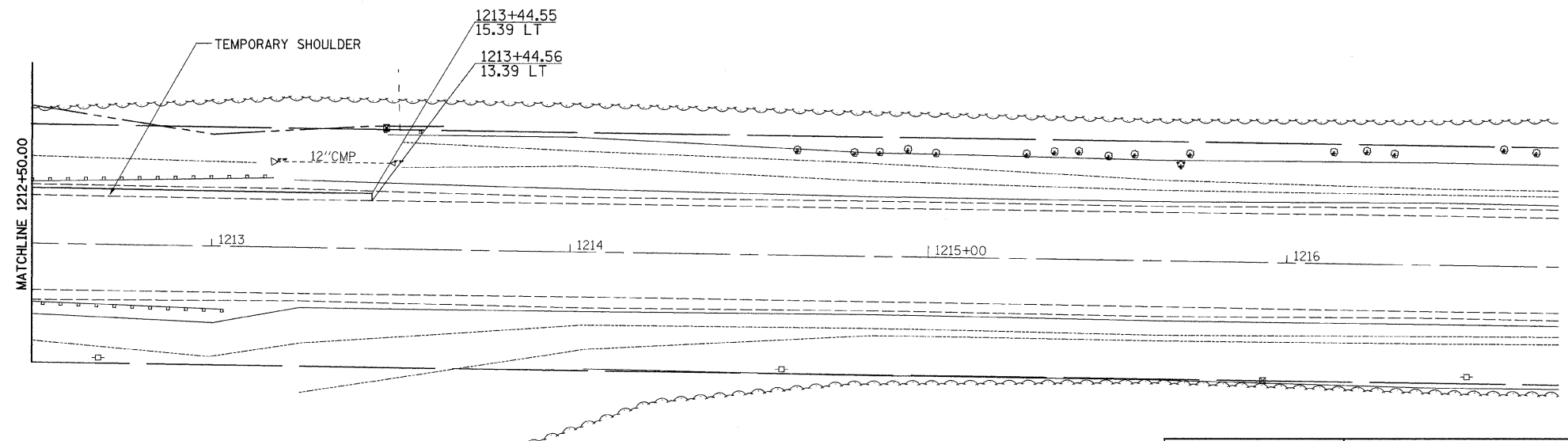
STAGE 1

STA 1211+65



STAGE 1 NOTES

1. USE STANDARD T01201 FOR SHOULDER WORK.
2. PLACE 2' WIDE TEMPORARY SHOULDERS FROM LT STA. 1209+71.27 TO LT STA. 1213+44.56.



	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____

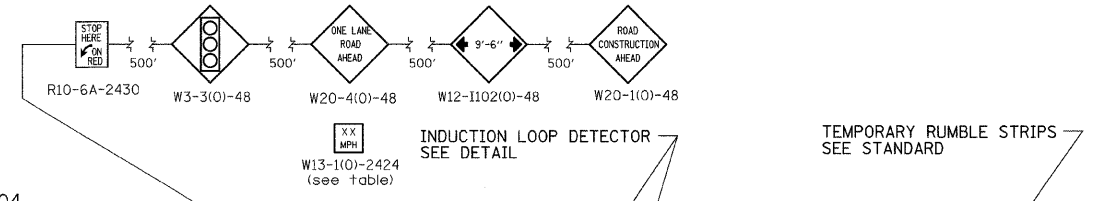
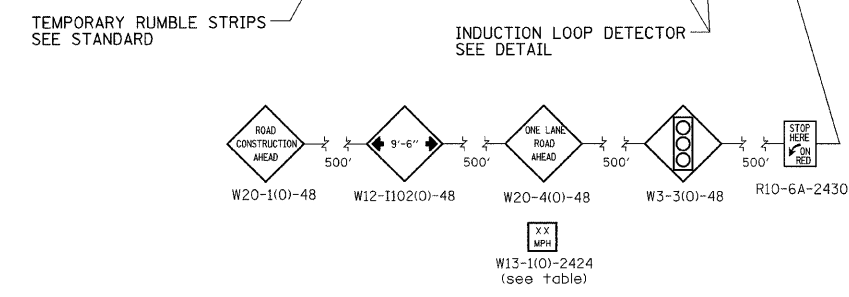
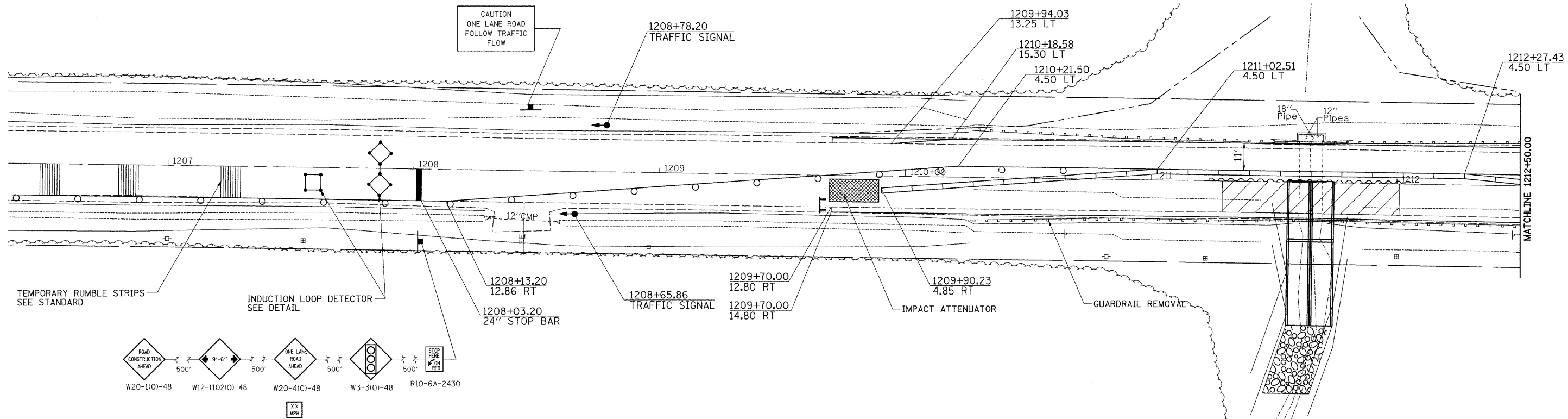
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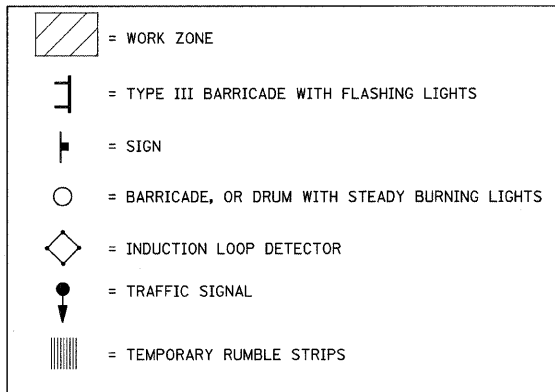
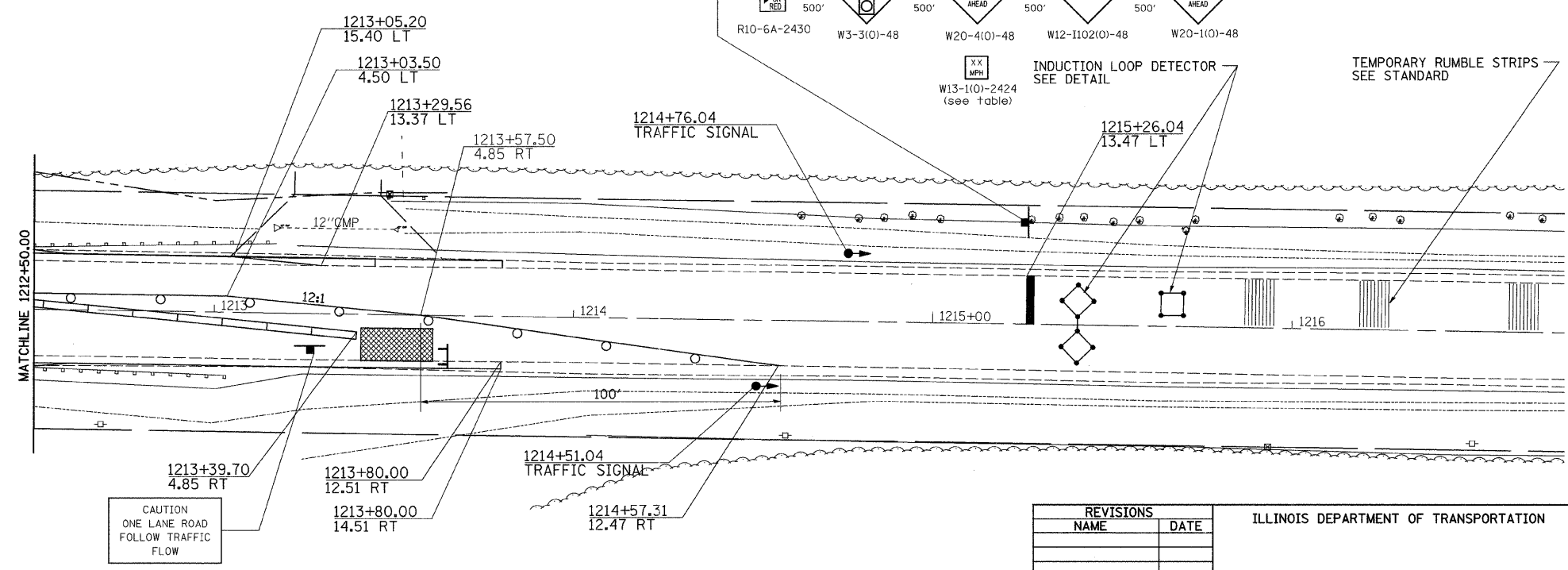
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17	15T-2	CARROLL	71	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 2 STA 1211+65



STAGE 2 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT DOWNSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
3. PLACE SHOULDERS AT FULL WIDTH IN PREPARATION FOR STAGE 3.
4. PLACE CLASS C PATCH AND BINDER OVER PATCH AREA. USE TEMPORARY RAMPS UNTIL STAGE 3 IS COMPLETE.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

DATE _____

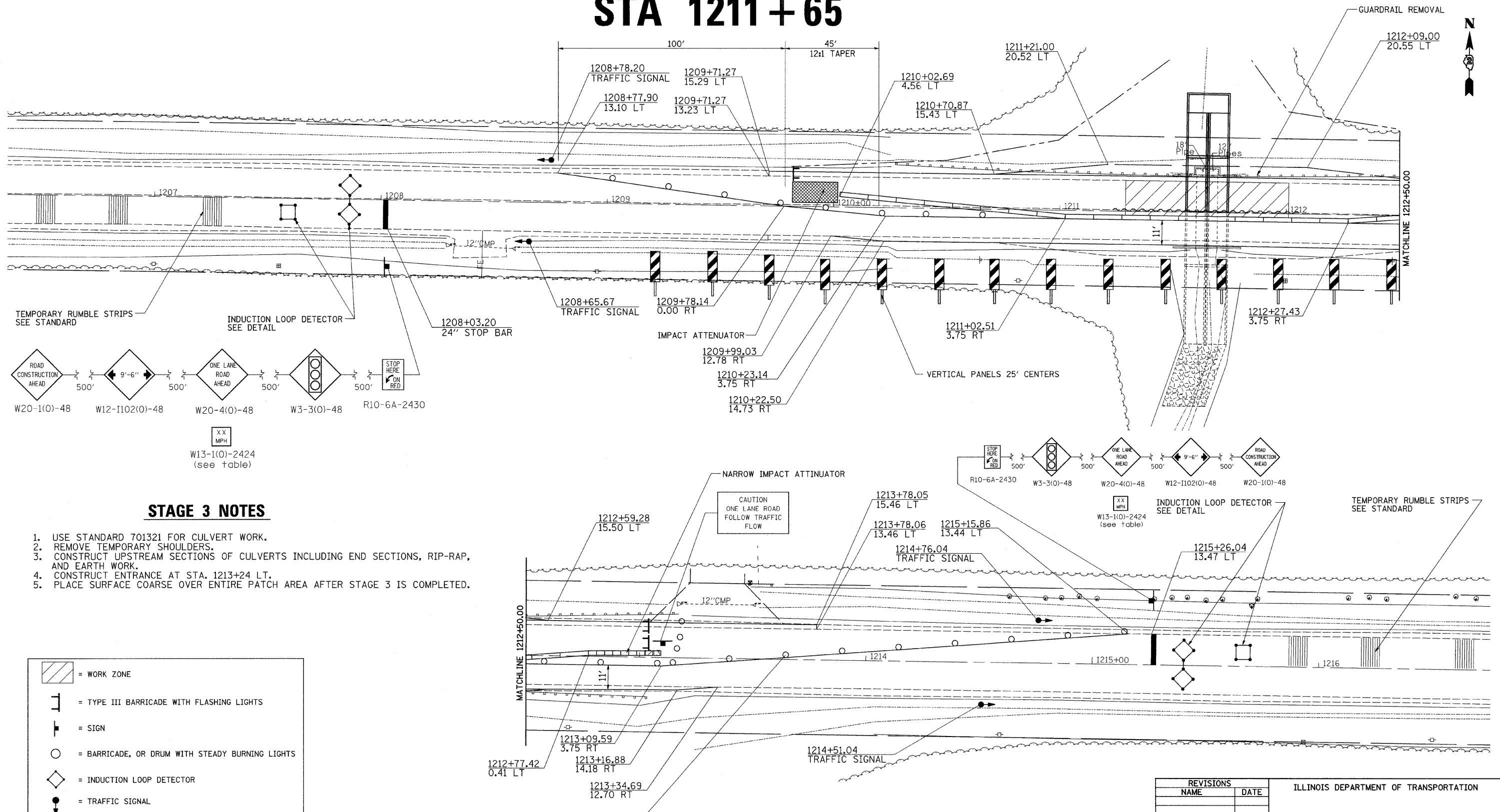
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STAGING PLAN SHEETS

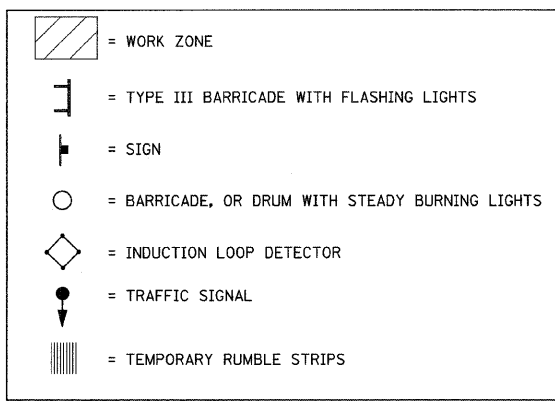
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17	15T-2	CARROLL	71	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 3 STA 1211+65



STAGE 3 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. REMOVE TEMPORARY SHOULDERS.
3. CONSTRUCT UPSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
4. CONSTRUCT ENTRANCE AT STA. 1213+24 LT.
5. PLACE SURFACE COARSE OVER ENTIRE PATCH AREA AFTER STAGE 3 IS COMPLETED.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

DATE _____

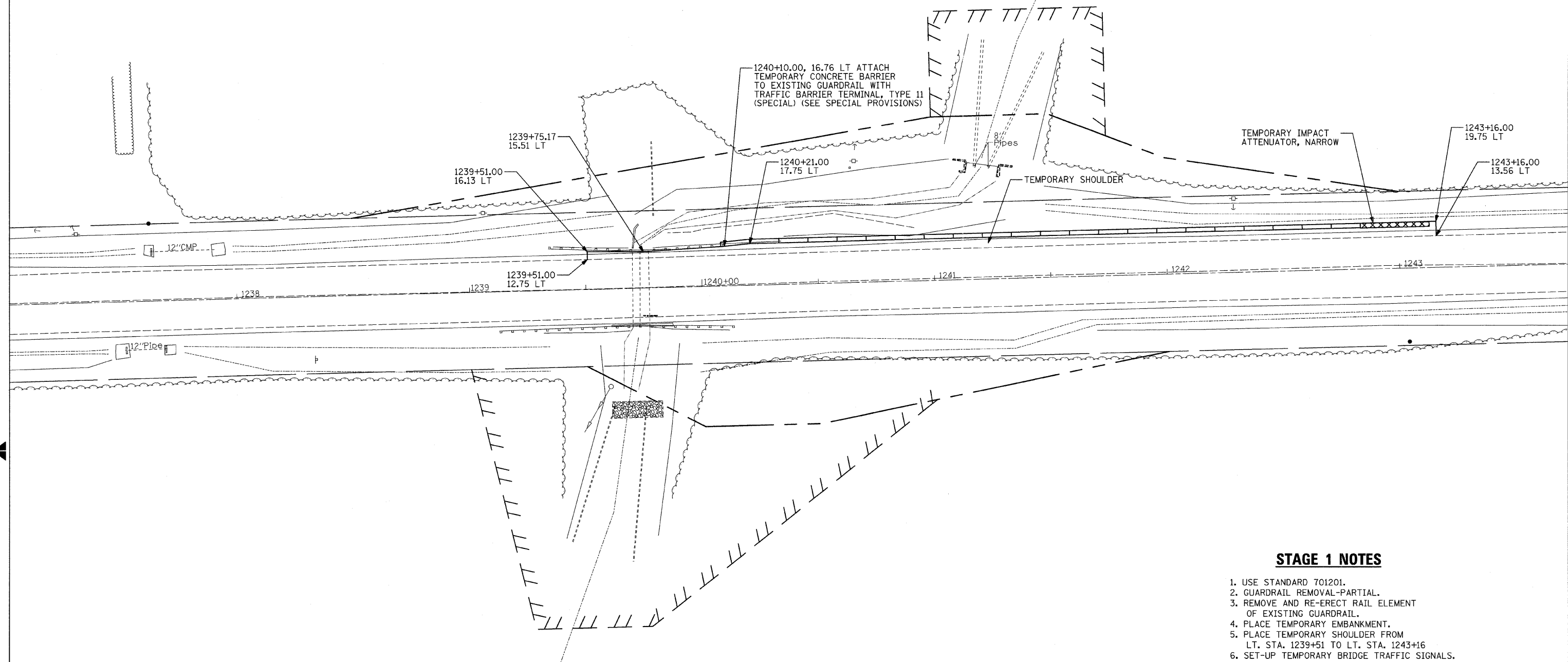
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USER NAME = hansenk

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17	15T-2	CARROLL	71	26
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 1 STA. 1240 + 74



STAGE 1 NOTES

1. USE STANDARD 701201.
2. GUARDRAIL REMOVAL-PARTIAL.
3. REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARDRAIL.
4. PLACE TEMPORARY EMBANKMENT.
5. PLACE TEMPORARY SHOULDER FROM LT. STA. 1239+51 TO LT. STA. 1243+16
6. SET-UP TEMPORARY BRIDGE TRAFFIC SIGNALS.
7. COMPLETE SHOULDER EDGE TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATOR, NARROW AND TRAFFIC BARRIER TERMINAL TYPE 11 (SPECIAL).

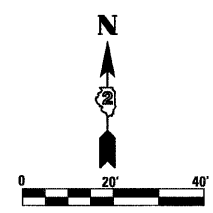
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NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

DATE _____

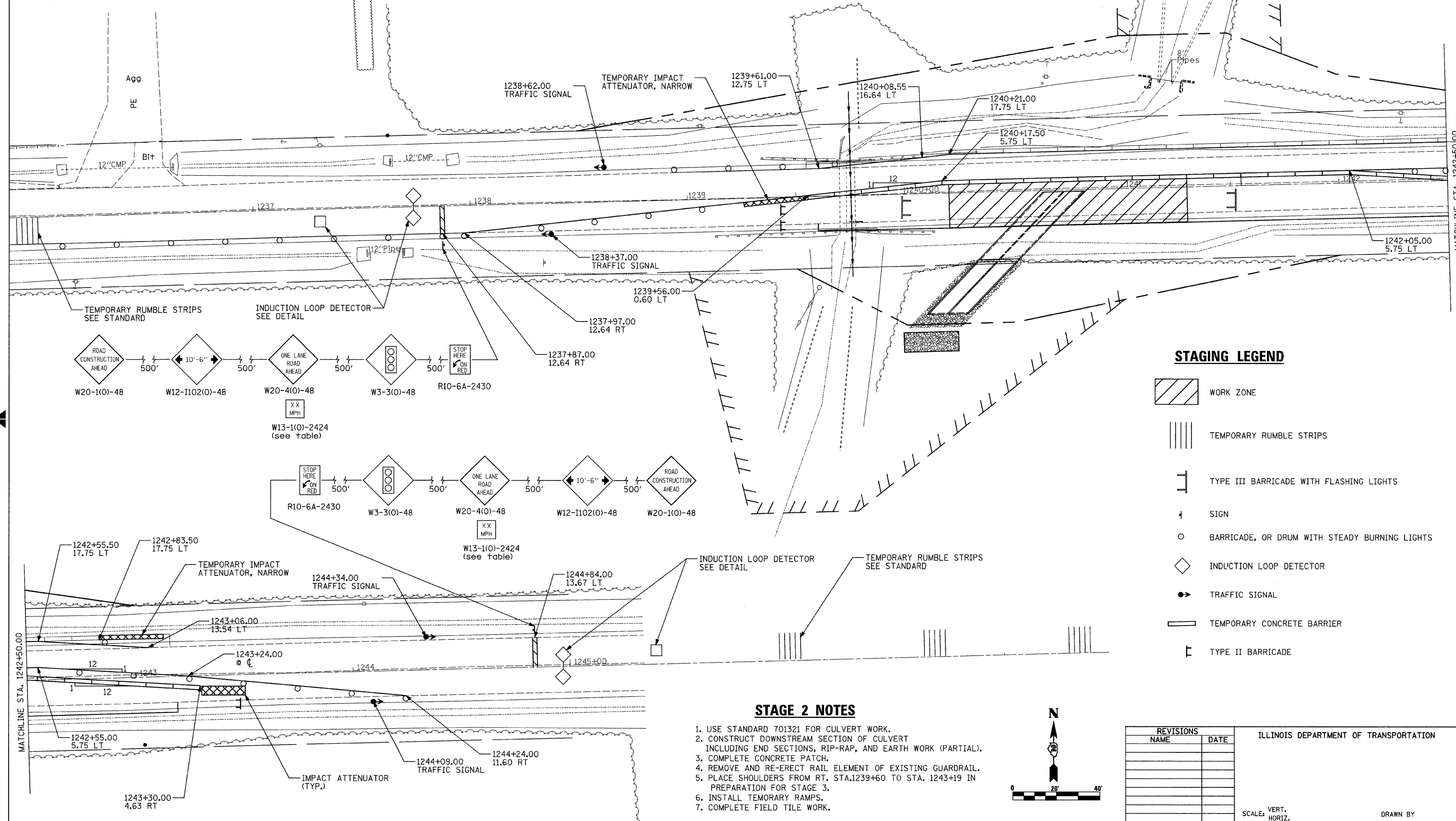
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 USER NAME = hansenko
MAURER & STUTZ, INC.
 SURVEYORS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	27
STA. 1242+50.00		TO STA. 1242+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 2 STA. 1240 + 74

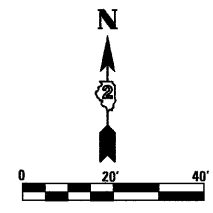


STAGING LEGEND

- WORK ZONE
- TEMPORARY RUMBLE STRIPS
- TYPE III BARRICADE WITH FLASHING LIGHTS
- SIGN
- BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- INDUCTION LOOP DETECTOR
- TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADE

STAGE 2 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT DOWNSTREAM SECTION OF CULVERT INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK (PARTIAL).
3. COMPLETE CONCRETE PATCH.
4. REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARDRAIL.
5. PLACE SHOULDERS FROM RT. STA. 1239+60 TO STA. 1243+19 IN PREPARATION FOR STAGE 3.
6. INSTALL TEMPORARY RAMPS.
7. COMPLETE FIELD TILE WORK.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

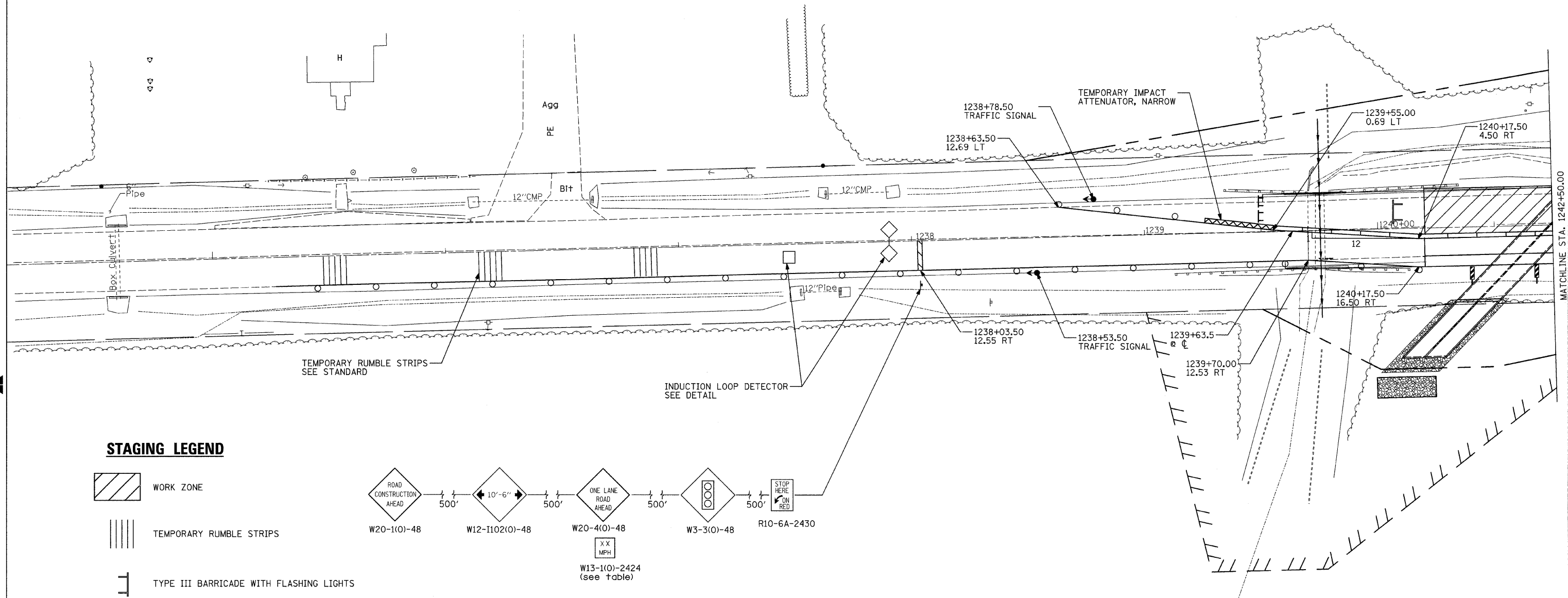
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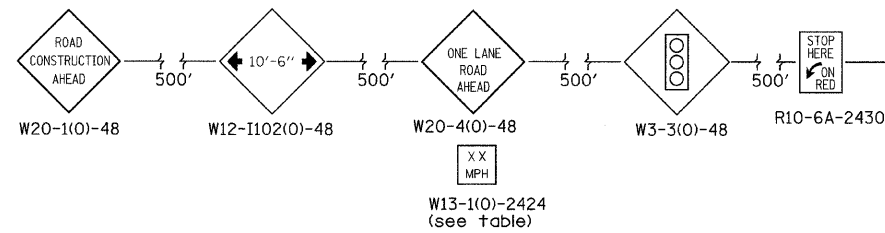
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 3 STA. 1240+74



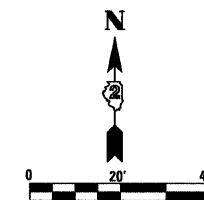
STAGING LEGEND

- WORK ZONE
- TEMPORARY RUMBLE STRIPS
- TYPE III BARRICADE WITH FLASHING LIGHTS
- SIGN
- BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- INDUCTION LOOP DETECTOR
- TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANELS
- TYPE II BARRICADE



STAGE 3 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT UPSTREAM SECTIONS OF CULVERT INCLUDING END SECTIONS, RIP RAP, AND EARTH WORK (PARTIAL).
3. COMPLETE CONCRETE PATCH.
4. PLACE HOT-MIX ASPHALT SHOULDER LT STA. 1239+51 TO 1243+16
5. INSTALL TEMPORARY RAMPS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

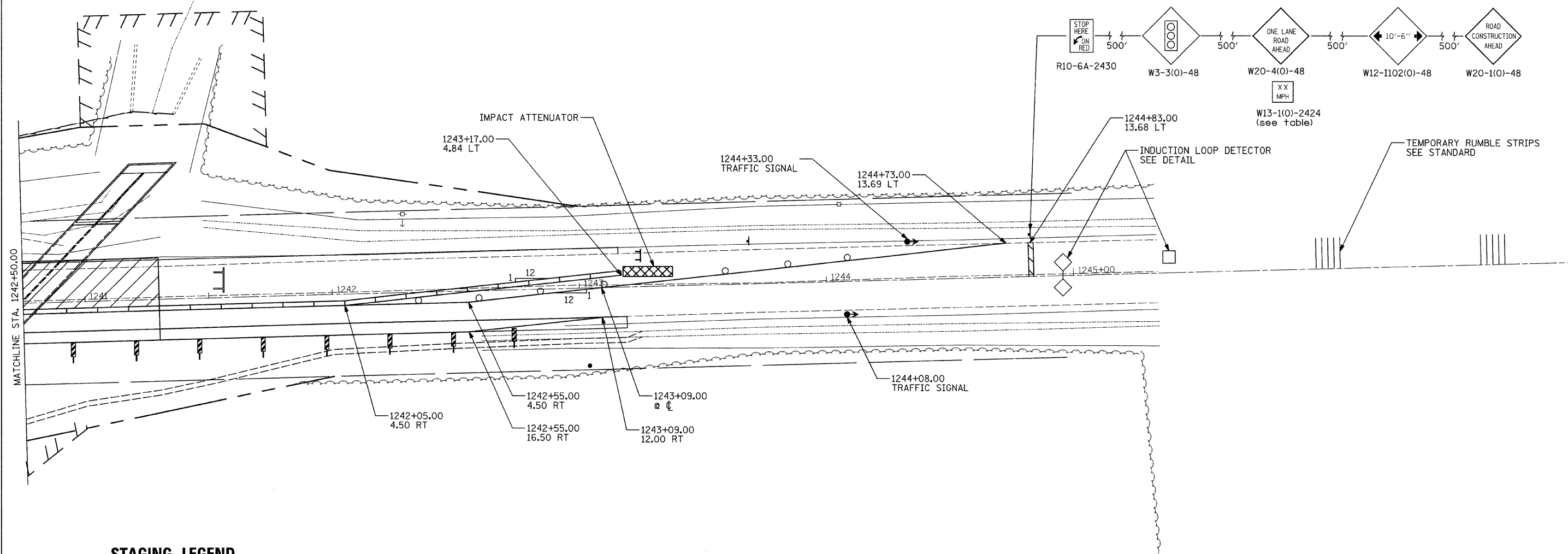
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 USER NAME = hensonke

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

STAGE 3 STA. 1240 + 74

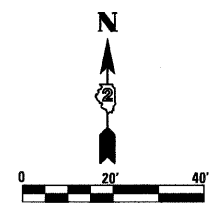


STAGING LEGEND

- WORK ZONE
- TEMPORARY RUMBLE STRIPS
- TYPE III BARRICADE WITH FLASHING LIGHTS
- SIGN
- BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- INDUCTION LOOP DETECTOR
- TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANELS
- TYPE II BARRICADE

STAGE 4 NOTES

1. USE STANDARD 701201.
2. FILL EXISTING CULVERT.
3. REMOVE EXISTING TIMBER WALL.
4. COMPLETE REMAINDER OF EARTHWORK.
5. COMPLETE SEEDING AND EROSION CONTROL ITEMS.
6. PLACE LEVELING BINDER (MACHINE METHOD) AND HMA SURFACE COURSE.
7. PLACE STRIPING AND RAISED REFLECTIVE MARKERS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

DATE _____

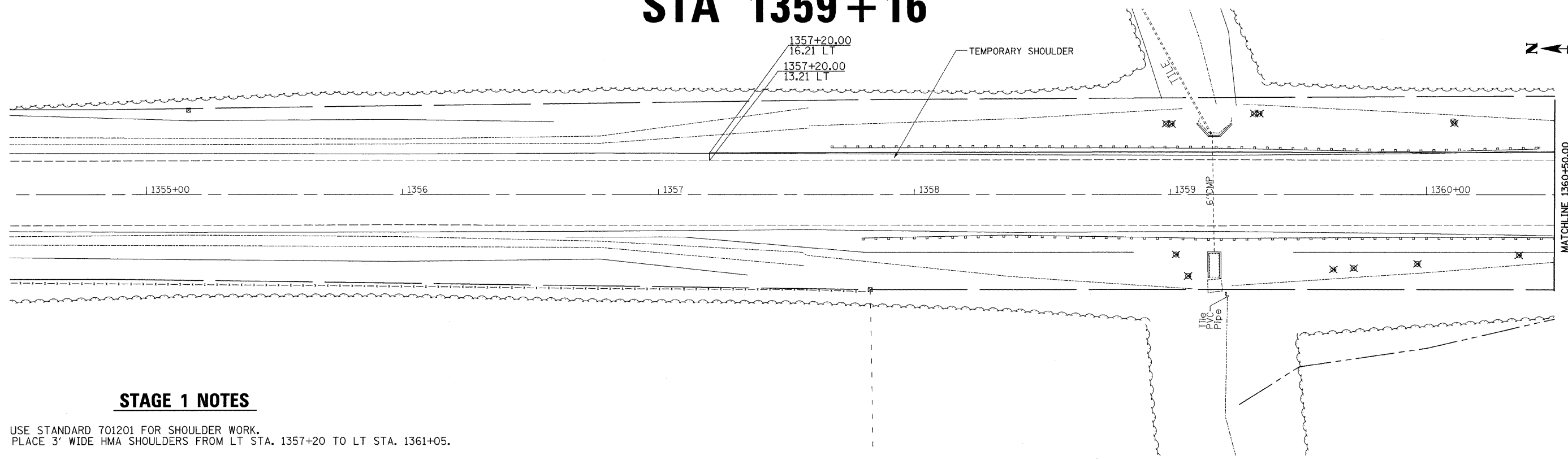
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

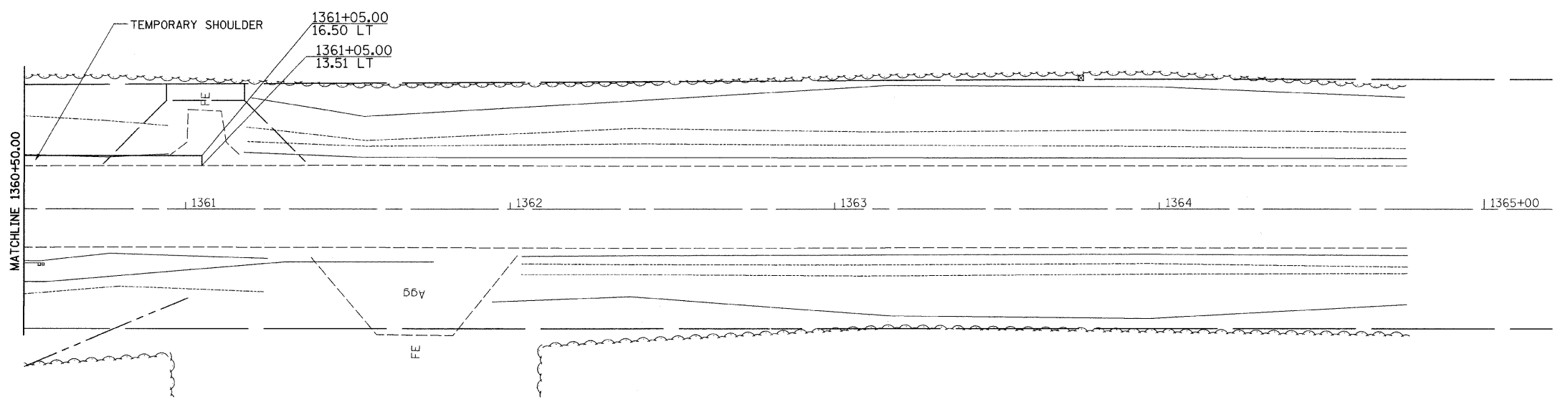
STAGE 1

STA 1359+16



STAGE 1 NOTES

1. USE STANDARD 701201 FOR SHOULDER WORK.
2. PLACE 3' WIDE HMA SHOULDERS FROM LT STA. 1357+20 TO LT STA. 1361+05.



	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. / HORIZ.

DATE

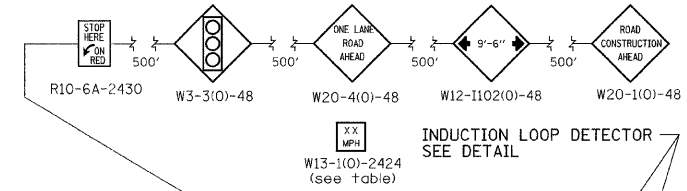
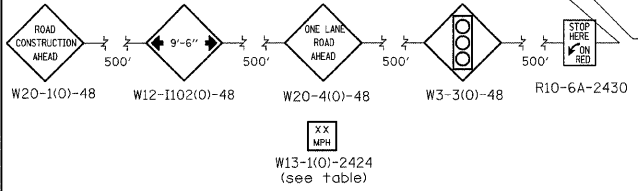
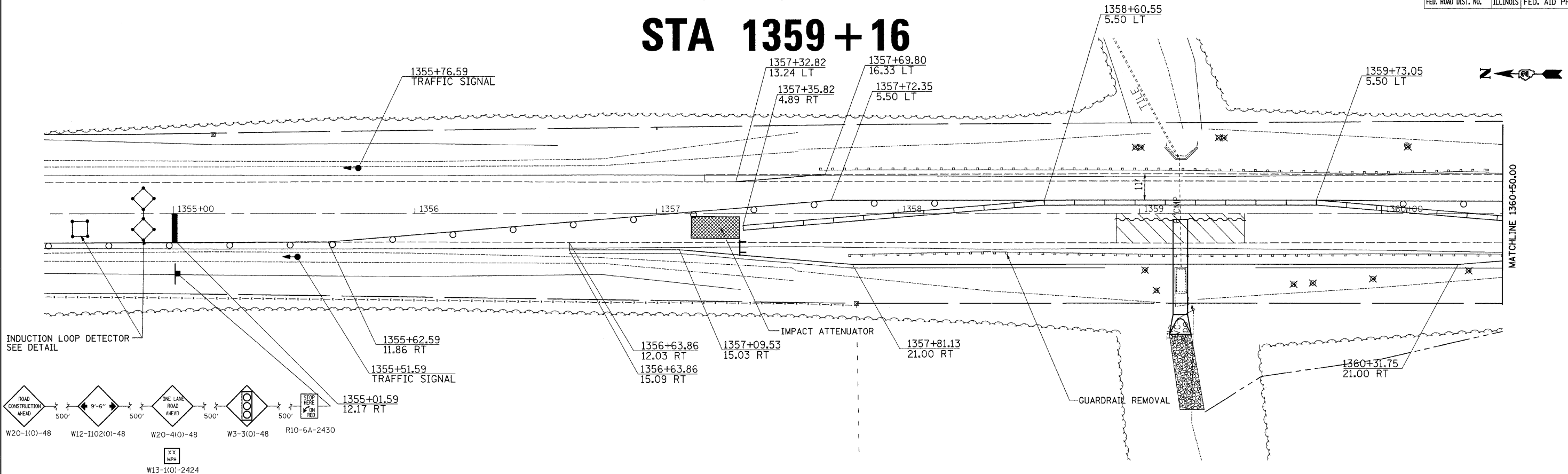
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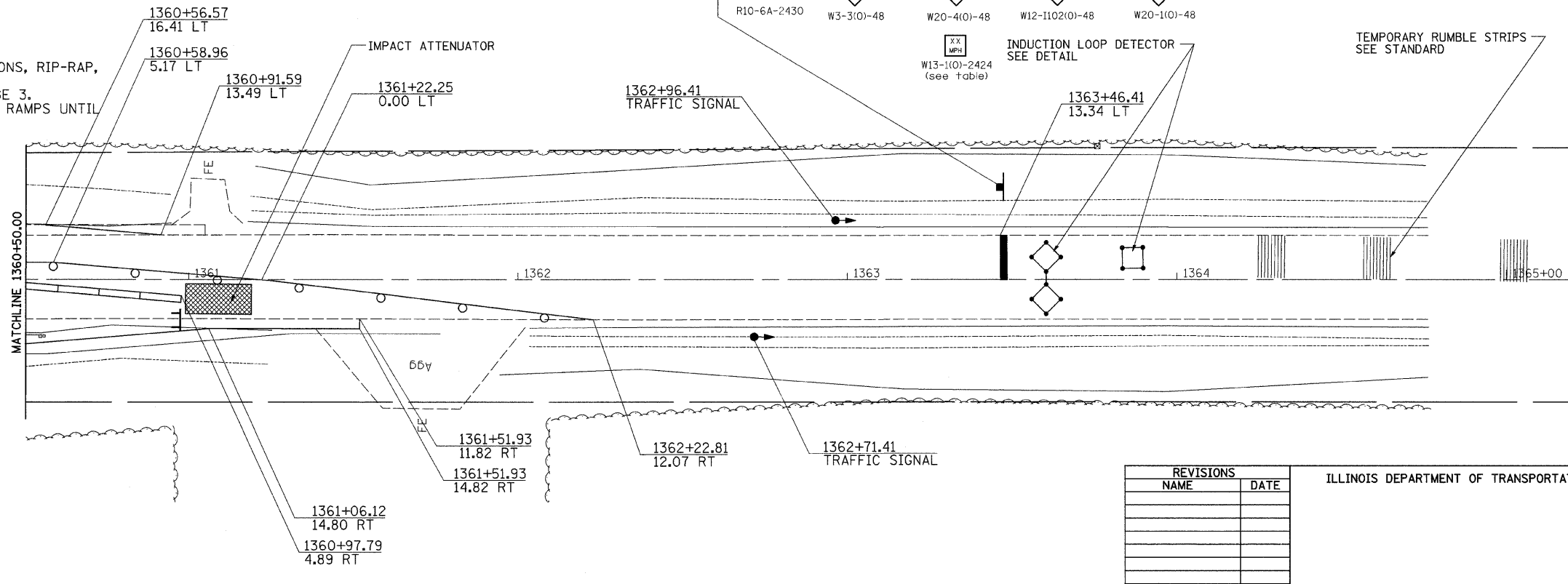
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17	15T-2	CARROLL	71	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 2 STA 1359+16



STAGE 2 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT DOWNSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
3. PLACE TEMPORARY WIDENING AT FULL WIDTH IN PREPARATION FOR STAGE 3.
4. PLACE CLASS C PATCH AND BINDER OVER PATCH AREA. USE TEMPORARY RAMPS UNTIL STAGE 3 IS COMPLETED.



	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

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HORIZ. _____

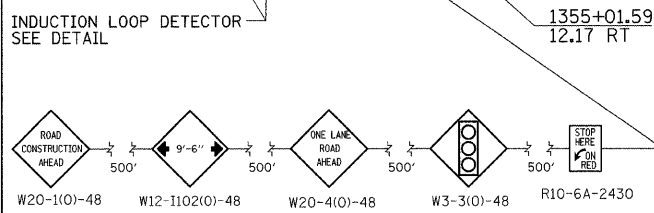
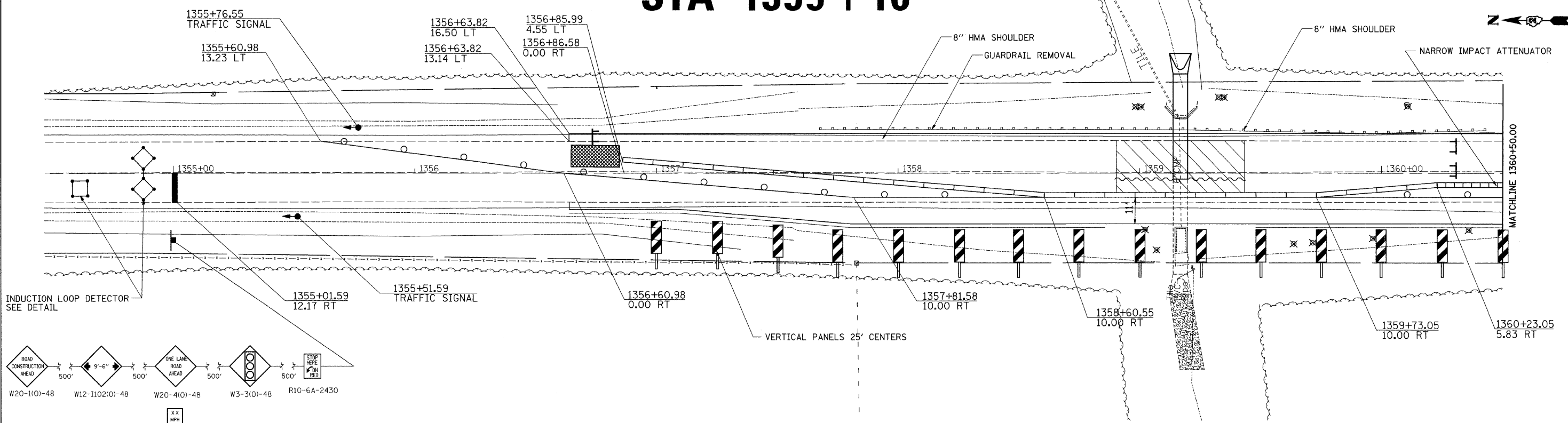
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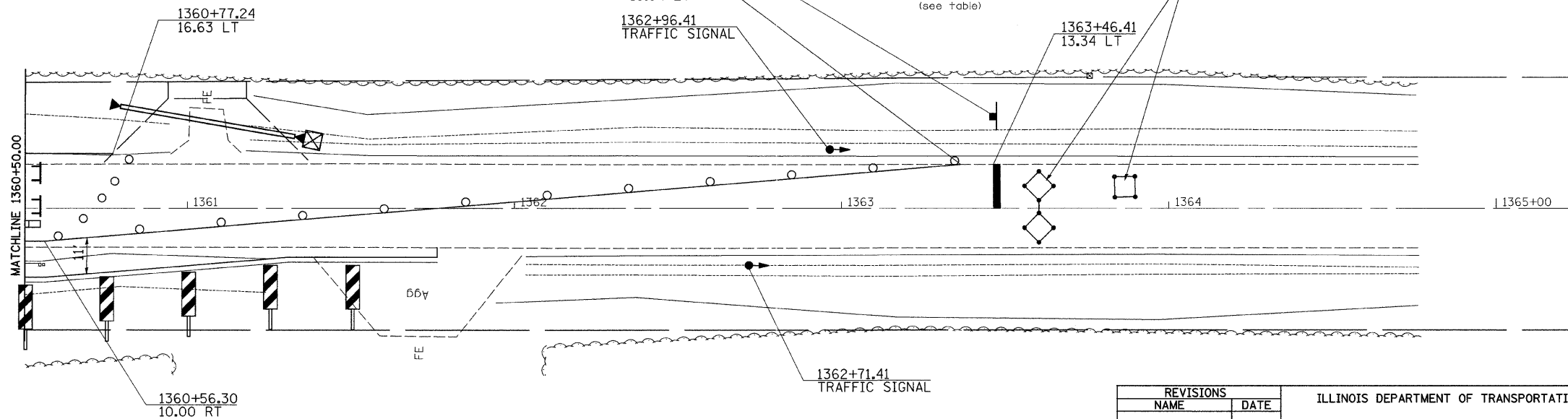
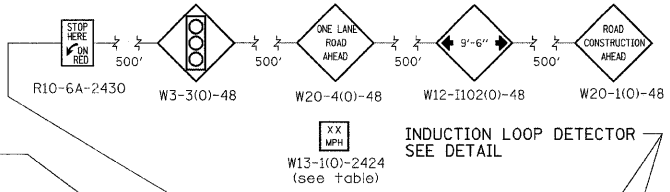
STAGE 3 STA 1359+16

CONTRACT NO. 64C35				
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17	15T-2	CARROLL	71	32
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STAGE 3 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. REMOVE TEMPORARY SHOULDERS.
2. CONSTRUCT DOWNSTREAM SECTIONS OF CULVERTS INCLUDING END SECTIONS, RIP-RAP, AND EARTH WORK.
3. PLACE SURFACE COARSE OVER ENTIRE PATCH AREA AFTER STAGE 3 IS COMPLETED.



	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.

DATE

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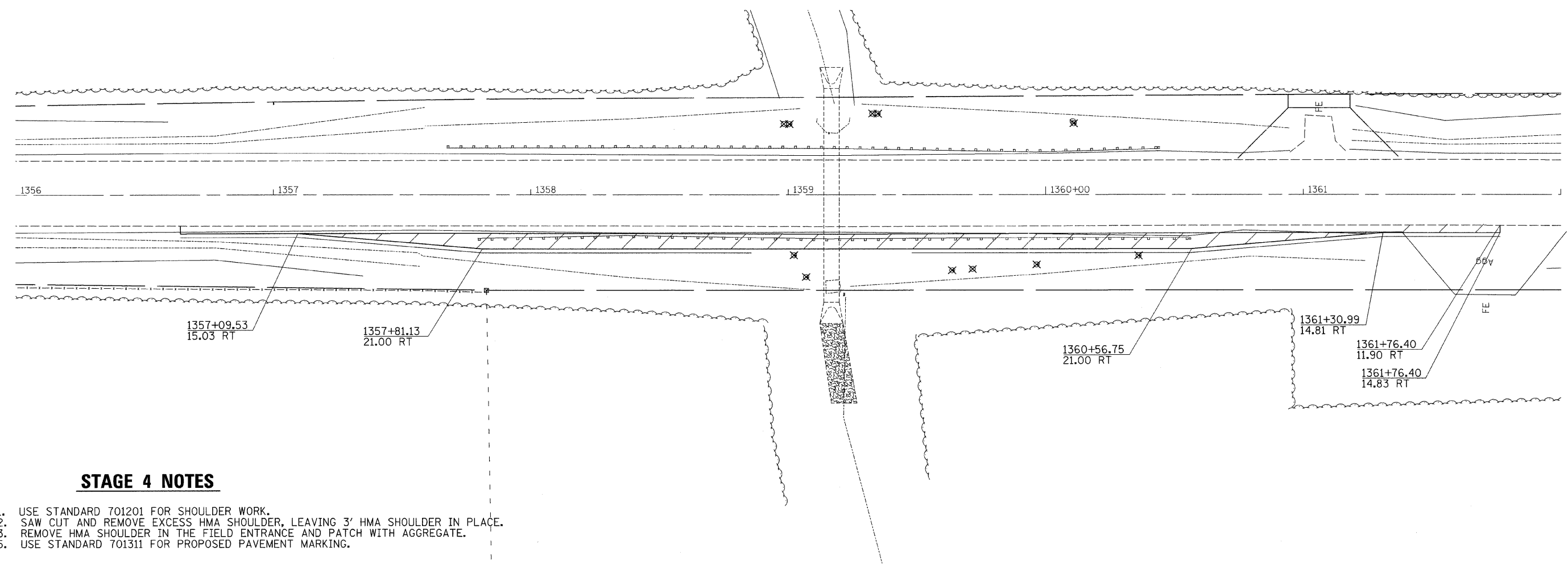
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STAGING PLAN SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	33
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 4

STA 1359+16



STAGE 4 NOTES

1. USE STANDARD 701201 FOR SHOULDER WORK.
2. SAW CUT AND REMOVE EXCESS HMA SHOULDER, LEAVING 3' HMA SHOULDER IN PLACE.
3. REMOVE HMA SHOULDER IN THE FIELD ENTRANCE AND PATCH WITH AGGREGATE.
5. USE STANDARD 701311 FOR PROPOSED PAVEMENT MARKING.

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____

DATE _____

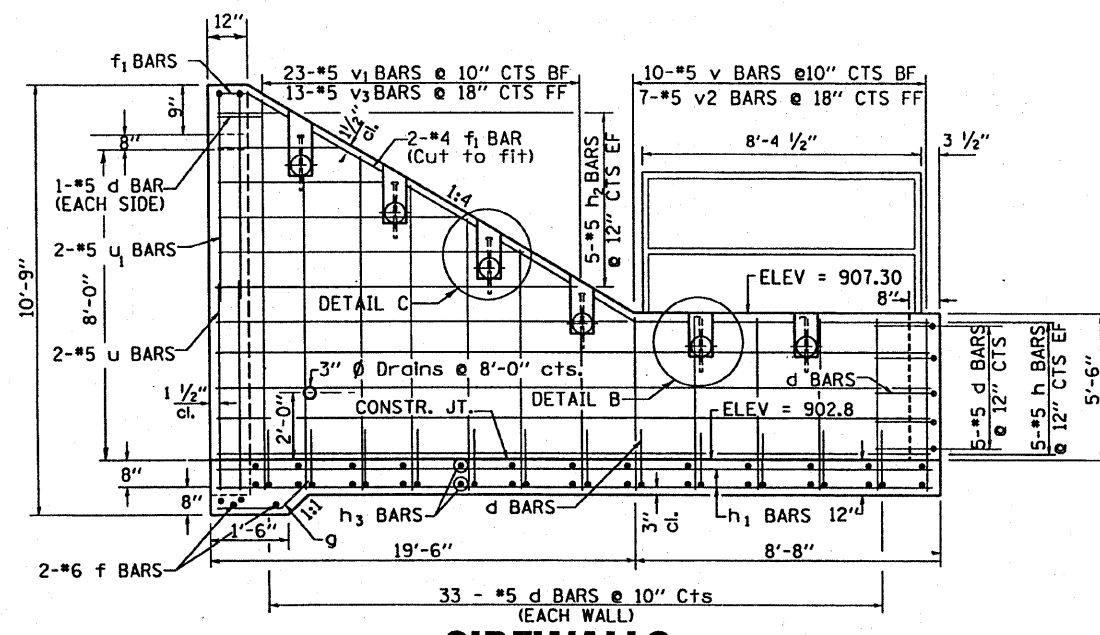
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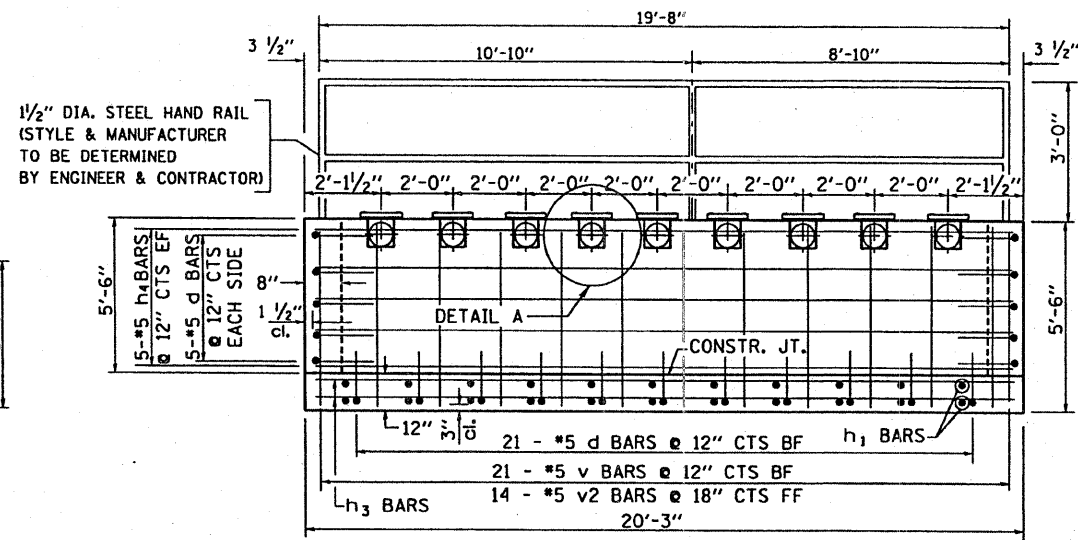
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17	15T-2	CARROLL	71 34
STA.		TO STA.	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

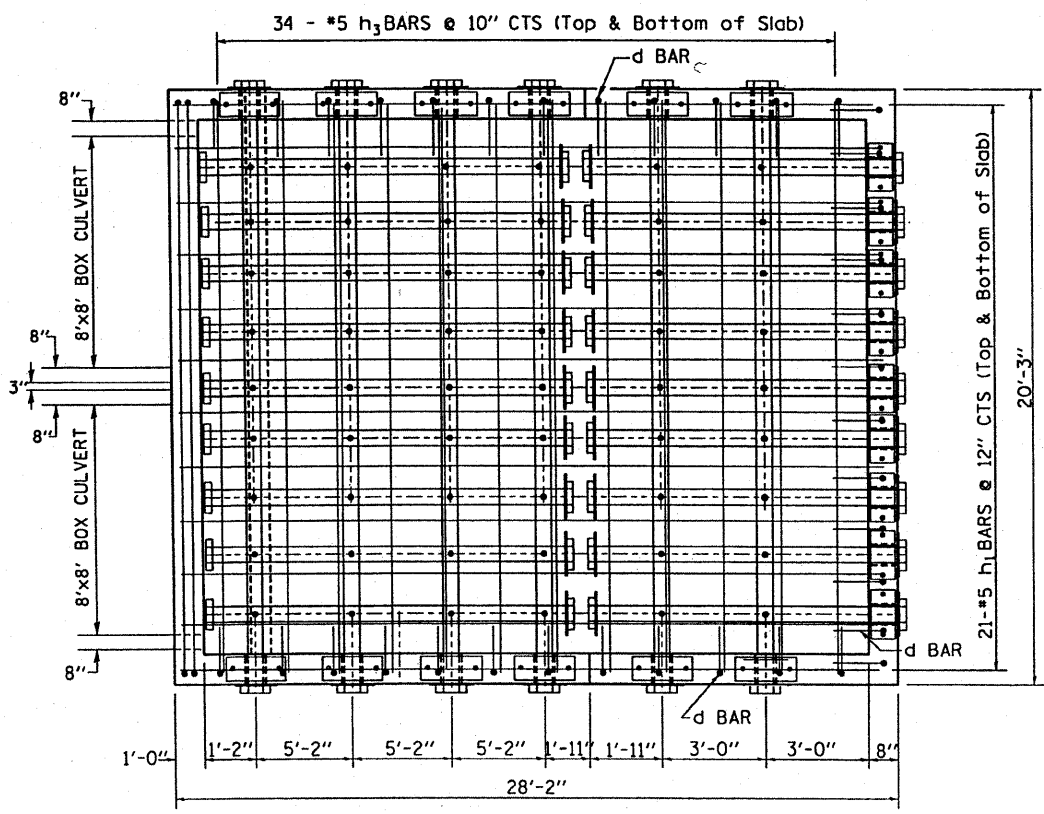
SHEET 1 OF 2



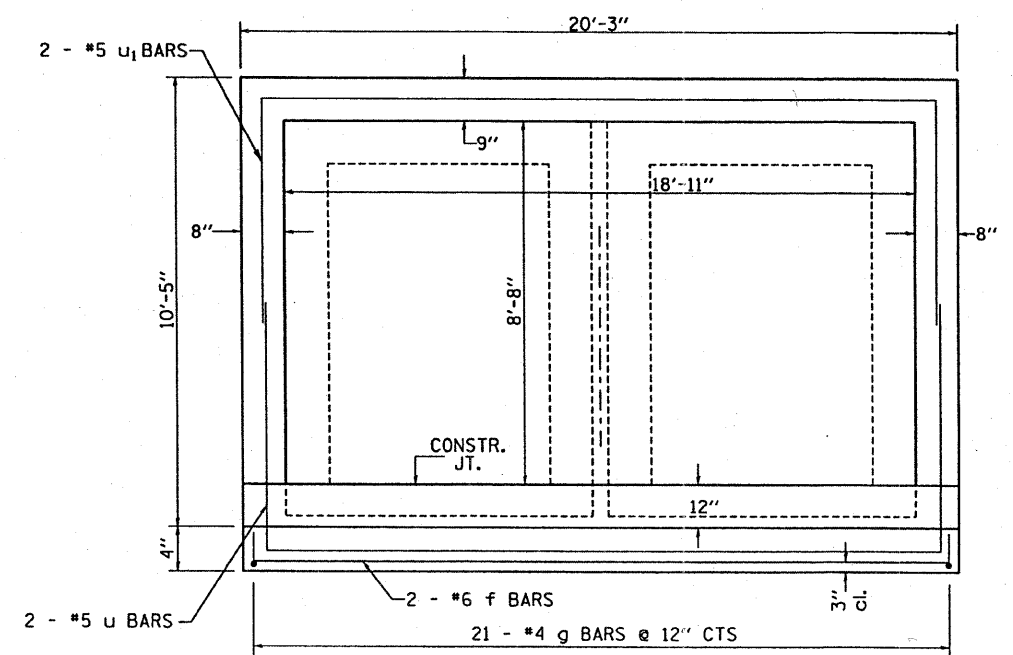
SIDEWALLS



BACK WALL



BOTTOM SLAB



HEADWALL

BILL OF MATERIAL
(For Information Only)

BAR	SIZE	NO.	LENGTH	SHAPE
d	5	97	5'-10"	
f	6	2	19'-11"	
f ₁	4	2	28'-4"	
g	4	21	2'-0"	
h	5	20	27'-11"	
h ₁	5	42	26'-11"	
h ₂	5	10	18'-3"	
h ₃	5	68	19'-11"	
h ₄	5	10	19'-11"	
v	5	41	5'-3"	
v ₁	5	46	13'-5"	
v ₂	5	28	5'-3"	
v ₃	5	26	13'-5"	
u	5	2	32'-5"	
u ₁	5	2	32'-9"	
DESCRIPTION		UNIT	QTY	
PIPE HANDRAIL		FOOT	37	
CONCRETE STRUCTURES		CU YD	34.5	
REINFORCEMENT BARS		LB	5860	

DESCRIPTION	UNIT	QTY.
4" GALVANIZED STEEL PIPE	6e	20'-3"
	9e	8'-8"
	9e	18'-8"
4" GALVANIZED PIPE CAPS	EACH	48
1/2"x4"x14" GALVANIZED STEEL PLATE	EACH	21
5/8"x9" GALVANIZED STEEL BOLTS	EACH	54
1/4" GALVANIZED STEEL PLATE (9" NOMINAL)	EACH	21

James O. Hamilton
 11/23/2008
 Expires 11/30/2008
 LICENSED STRUCTURAL ENGINEER
 JACOBSONVILLE, ILLINOIS

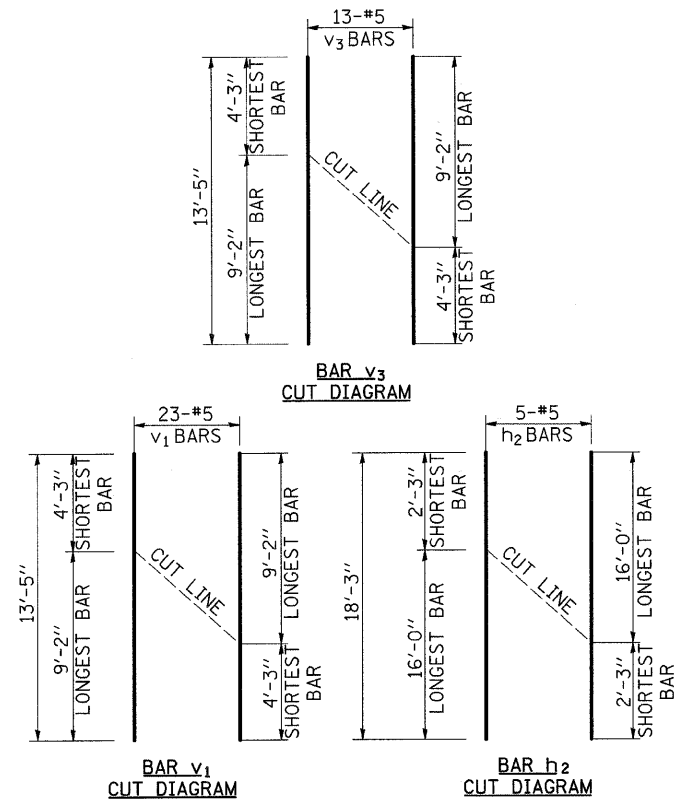
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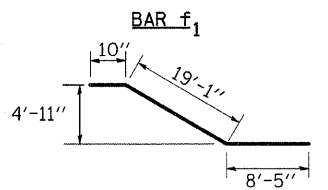
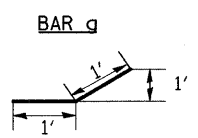
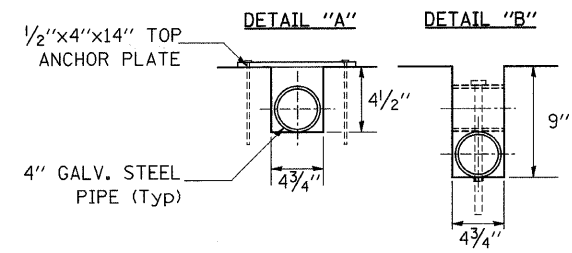
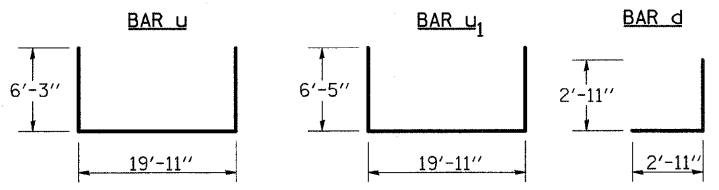
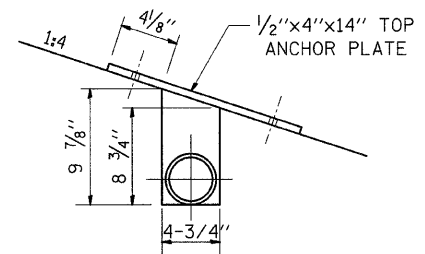
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CONTRACT NO. 64C35				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	35
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET 2 OF 2



ORDER v₁ & h₂ BARS FULL LENGTH, CUT AS SHOWN AND USE REMAINDER OF BARS IN OPPOSITE WALL.



GENERAL NOTES

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 "CU YD" for Concrete Structures shall include the Expansion Bolts, Galvanized Pipe, Class "SI" Concrete, Reinforcement Bars, Bolts, Nuts, Washers, Steel Plates, Pipe Handrail, 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.

All handrail dimensions shall be verified by contractor prior to fabrication of pipe handrail, based upon final location of mounting bolts.

Handrail shall conform to Section 510 with the exception that all pipe and connections shall be welded galvanized or aluminum according to Article 1006.27, 1006.30, or 1000.34

The diameter of the gripping surface of the handrail shall be 1'-1/4" to 1-1/2"

Ends of handrail shall be rounded.

Hand & Safety Rails shall not rotate within their fittings.

Gripping surfaces shall be uninterrupted by Newel Posts, other construction elements, or obstructions.

See pipe Handrail Detail Sheet for more information.

See Plan & Profile Sheet for more information.

See Cross Section Sheet for more information.

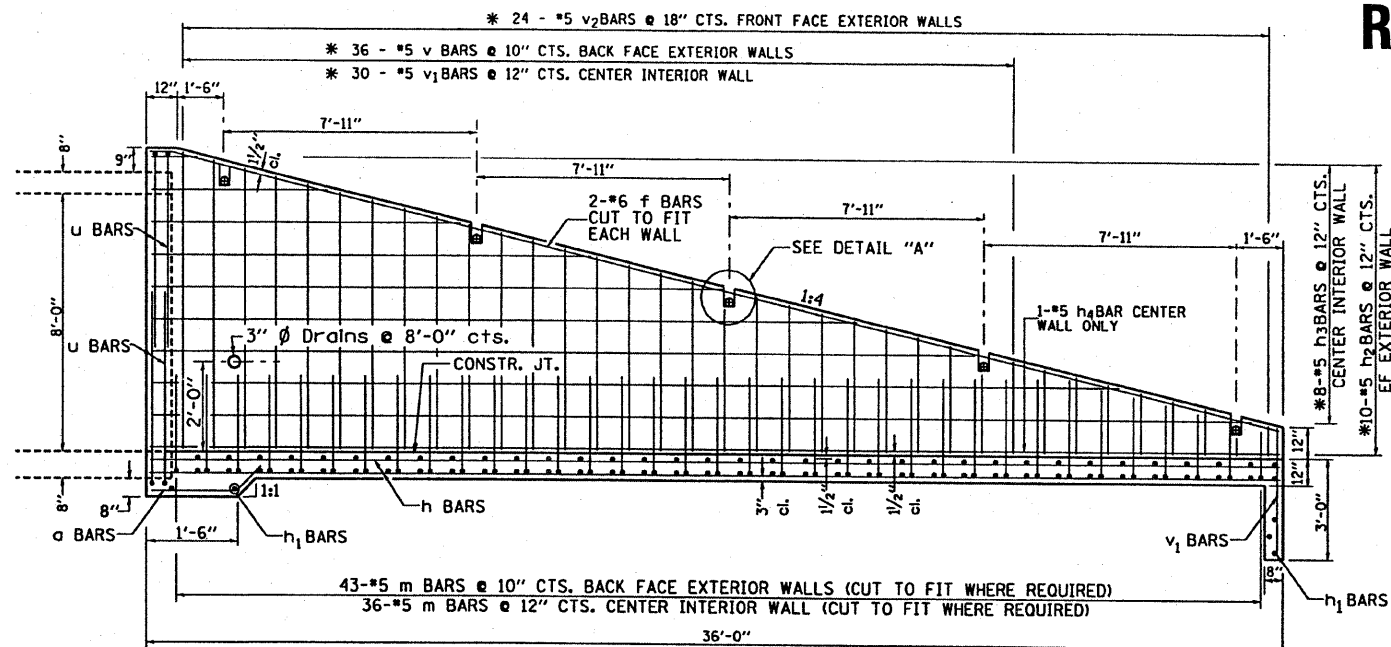
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ. DATE DRAWN BY CHECKED BY

PLOT DATE = Mon Feb 25 13:28:59 2008
 FILE NAME = C:\Documents and Settings\hansonke\Local Settings\Temporary Internet Files\DLK\9\Drop Box Sheet 2 - to IDOT - 2-25-08.dgn
 PLOT SCALE = 50.0000' / 1"
 USER NAME = hansonke

8'x8' Double Box Culvert End Section

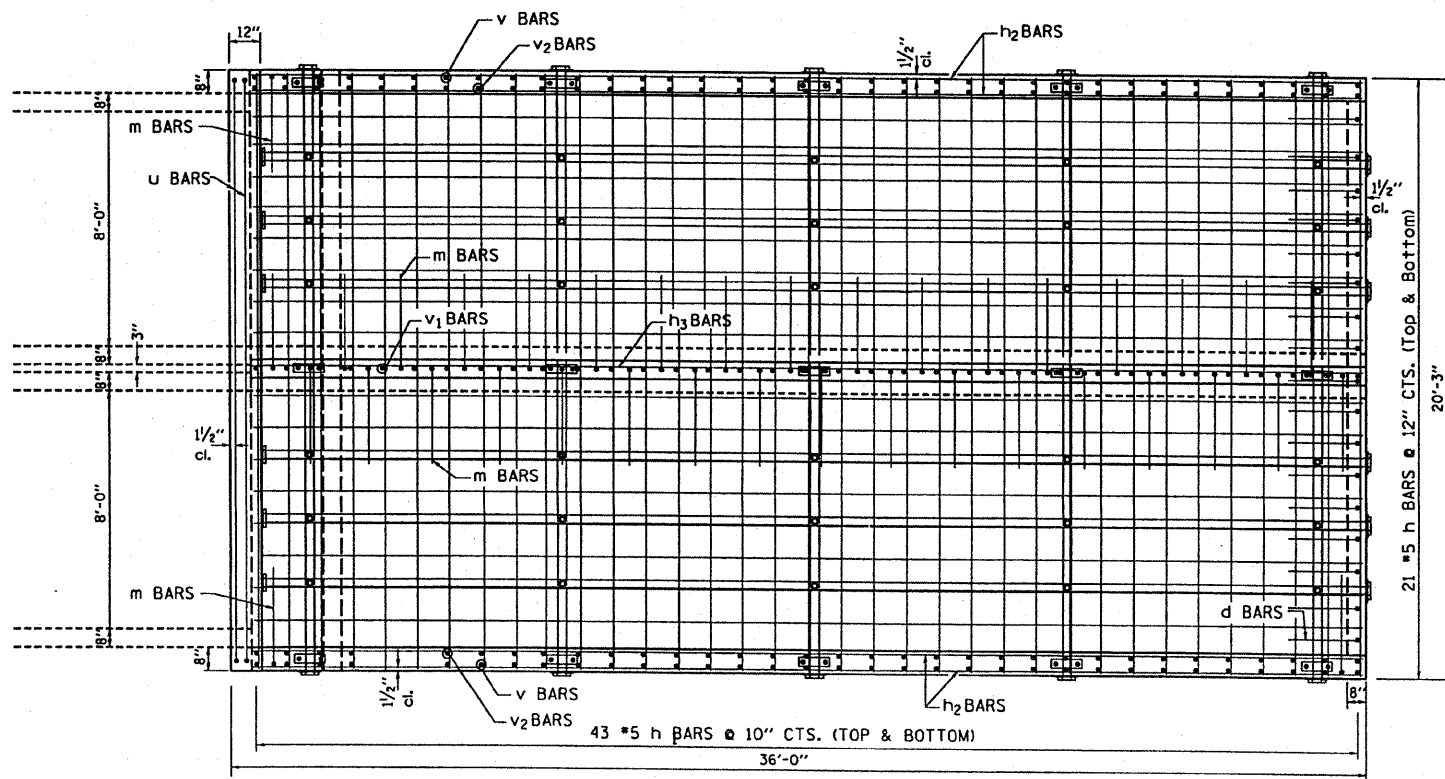
RT 1211 + 65

CONTRACT NO. 64C35				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	36
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT
SHEET 1 OF 2				

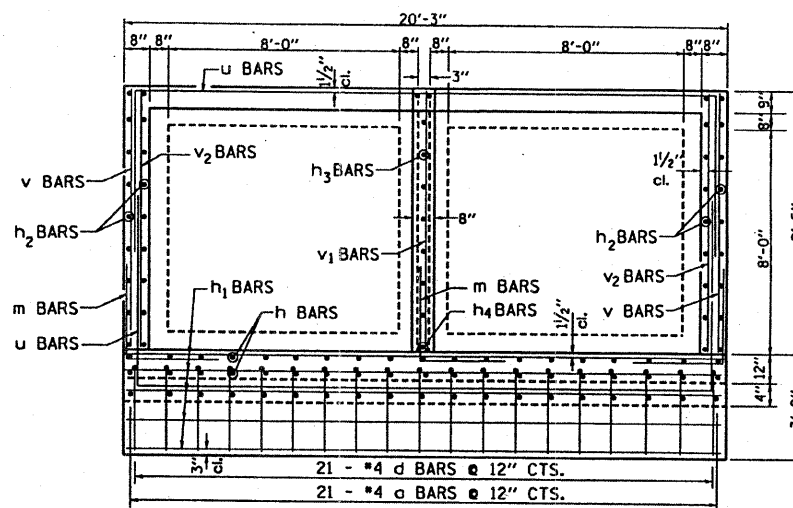


PROFILE VIEW

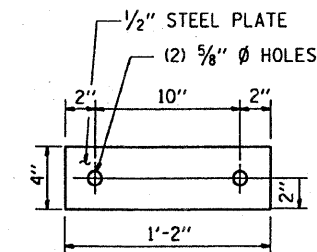
* bars shall be ordered full length & cut to fit. Balance of bar to be used in opposite side of end section.



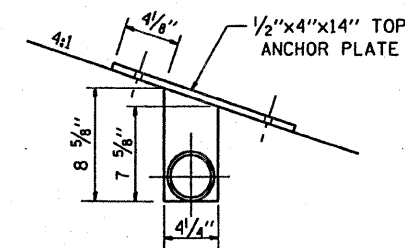
PLAN VIEW



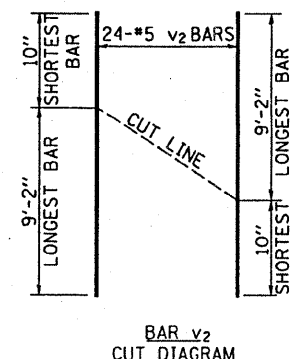
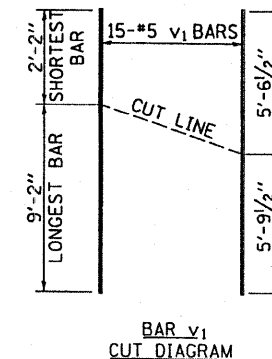
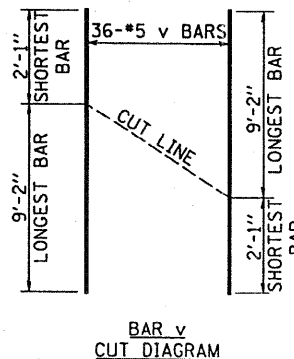
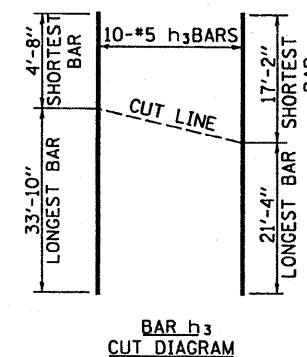
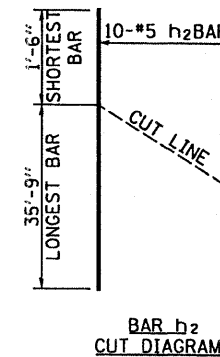
HEADWALL



TOP ANCHOR PLATE



DETAIL "A"

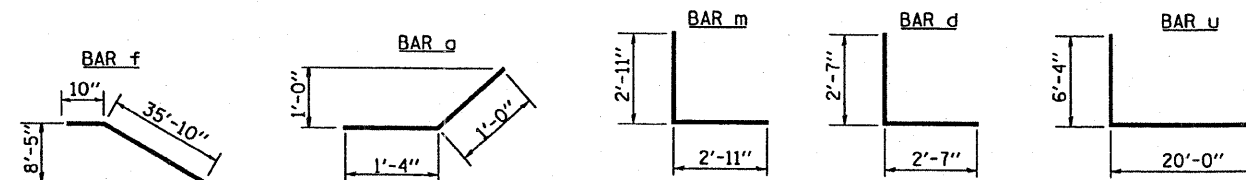


James O. Hamilton
 1/23/2008
 Expires: 11/30/2008

PLOT DATE: 1/23/2008
 FILE NAME: V:\31100\10-Top Box & End Section - to 100T.dgn
 USER: NAME: J. Hamilton

8'x8' Double Box Culvert End Section RT 1211 + 65

CONTRACT NO. 64C35				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	37
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
SHEET 2 OF 2				



BILL OF MATERIALS (For Information Only)

BAR	NO.	SIZE	LENGTH	SHAPE
a	21	5	2'-4"	
d	21	5	5'-8"	
f	6	6	36'-8"	
h	42	5	34'-9"	
h ₁	89	5	20'-0"	
h ₂	20	5	37'-3"	
h ₃	4	5	38'-6"	
h ₄	1	5	34'-9"	
m	122	5	5'-10"	
u	4	5	32'-8"	
v	36	5	11'-3"	
v ₁	15	5	11'-4"	
v ₂	24	5	11'-0"	
CONCRETE STRUCTURES			CU YD	42.9
REINFORCEMENT BARS			LB	6510

GENERAL NOTES:

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

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

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

Exposed Edges shall be beveled $\frac{3}{4}$ ".

The Contract unit price "CU YD" for Concrete Structures shall include the Expansion Bolts, Galvanized Pipe, Anchor Bolts, Bolts, Nuts, Washers, Steel Plates, Earth Excavation where required, and necessary grading to fit the Inlet as shown in the cross section or to the slope.

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

Steel Pipes shall conform to A.S.T.M. A-53 Grade B or A.S.T.M. A501, and shall be galvanized conforming to AASHTO M111, and A.S.T.M. A385. Contractor shall field verify pipe length.

Slope Flow Line of the extension at the same rate as the Flow Line of the box.

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

DESCRIPTION	UNIT	QTY.
	5e	20'-7"
3.5" GALVANIZED STEEL PIPE	6e	35'-6"
3.5" GALVANIZED PIPE CAPS	EACH	22
1/2"x4"x14" GALVANIZED STEEL PLATE	EACH	15
5/8"x9" GALVANIZED STEEL BOLTS	EACH	30

PLOT DATE : 1/23/2008
 FILE NAME : W:\p108\2244-14\0-0p Box & End Section - to IDOT.dgn
 USER NAME : tsoody

B.M. - NGS Monument Sta 1227+20, 98' Lt., Elev. 932.49
 Existing Structure- 008-1029. Built in 1925 as SBI 27, Section 15 at Station 1239+74 as a single-cell, 8x5 cast-in-place RC box culvert, 30'-0" face-to-face of curb with a culvert length of 31'-4". Existing culvert is to be filled. Traffic to be maintained utilizing stage construction.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STA. 1240 + 74
6'x5' DOUBLE BOX CULVERT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A.P. 17	15T-2	CARROLL	71	38	6 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract # 64C35

No Salvage

STATION 1240+74.00
 FAP RTE. 17 SEC. 15T-2
 BUILT 20__ BY
 STATE OF ILLINOIS
 LOADING HS20
 STR. NO. 008-1098

NAME PLATE

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	General Plan & Elevation
2	Stage Construction Details
3	Culvert Details
4	Temp. Sheet Piling & Grating Details
5	Bar Splicer Assembly Details
6	Temp. Conc. Barrier Details

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS 20-44

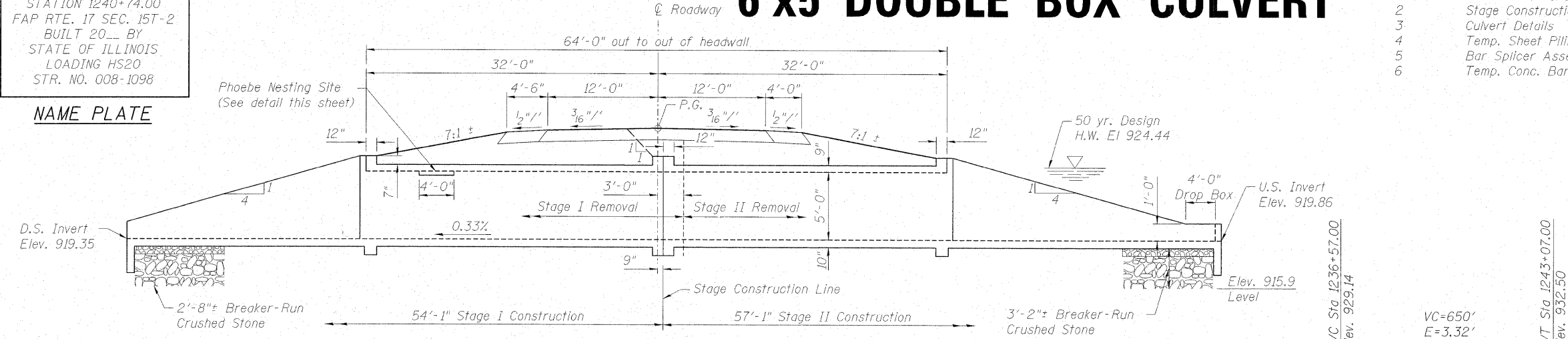
Allow 50#/sq. ft. for future wearing surface

DESIGN STRESSES

$f_y = 60,000 \text{ psi}$
 $f'_c = 3,500 \text{ psi}$

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60, (IL modified). See Special Provisions.
2. For staging details, see sheet 2 of 6.
3. Precast alternate is not allowed.

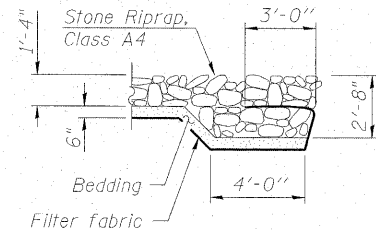


Notes:
 The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The Breaker-Run Crushed Stone shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for "Breaker-Run Crushed Stone".

ELEVATION VIEW

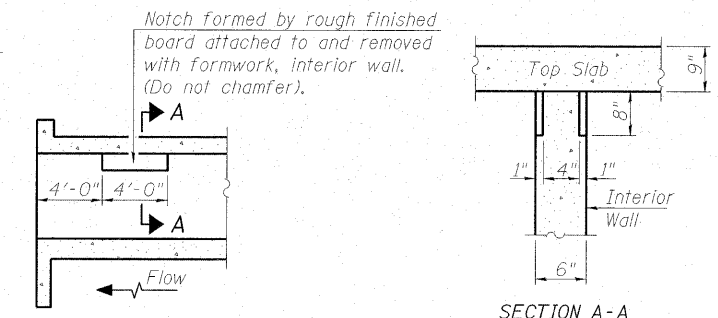
Dimensions are at right angles to \perp Roadway
 Looking West



SECTION B-B

PROFILE GRADE

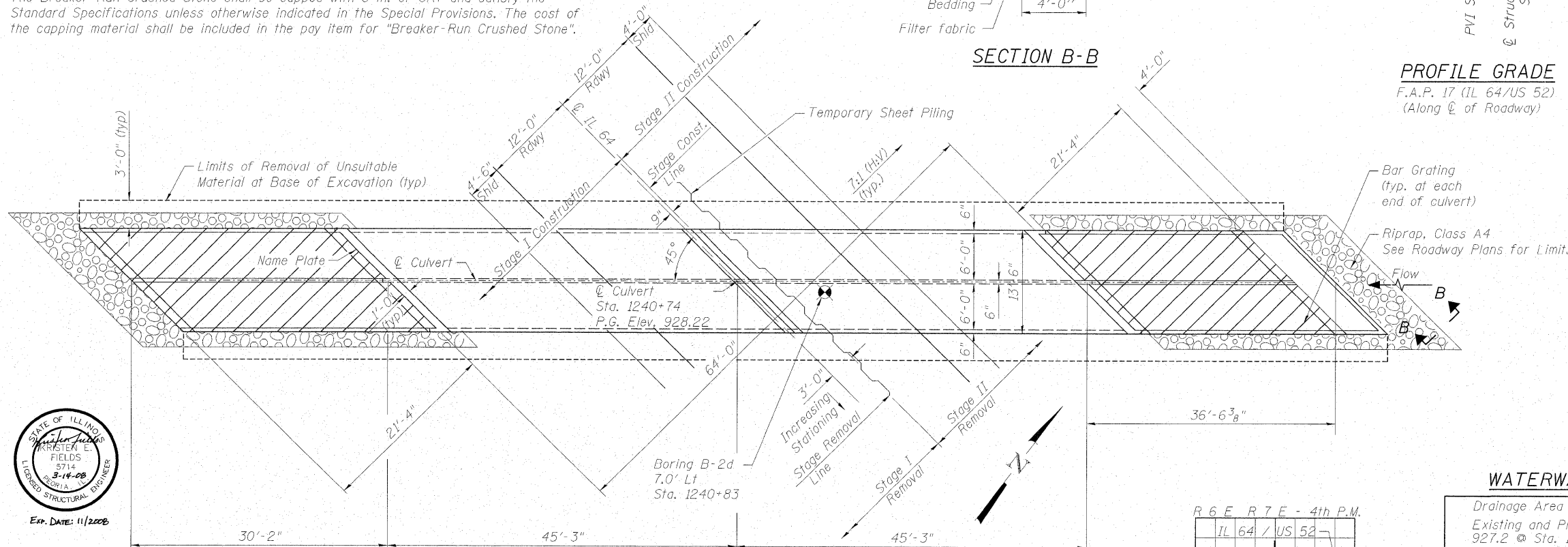
F.A.P. 17 (IL 64/US 52)
 (Along \perp of Roadway)



LONGITUDINAL SECTION

PHOEBE NESTING SITE DETAILS

(Downstream End Only)



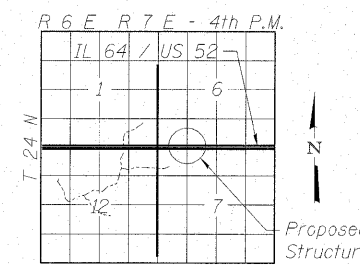
PLAN VIEW

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	916.86	916.35

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 280.4 ac
 Existing and Proposed Low Grade Elev. 927.2 @ Sta. 1238+94.1

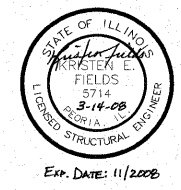
Flood	Freq. Yr.	Q C.F.S.	Headwater El.	
			Exist.	Prop.
Design	10	155	923.55	922.76
Ex Overtopping	50	317	926.04	924.44
Base	100	418		925.35
Pr Overtopping	263	600		927.21

10-year velocity through existing culvert: 8.5 fps
 10-year velocity through proposed culvert: 7.4 fps

TOTAL BILL OF MATERIAL

PAY CODE	ITEM	UNIT	TOTAL
*20201200	Removal and Disposal of Unsuitable Material	Cu. Yd.	330
28100107	Stone Riprap, Class A4	Sq. Yd.	59
28200200	Filter Fabric	Sq. Yd.	59
50800105	Reinforcement Bars	Pound	23,260
*51205200	Temporary Sheet Piling	Sq. Ft.	1711
51500100	Name Plates	Each	1
54003000	Concrete Box Culverts	Cu. Yd.	142.9
*20005400	Breaker Run Crushed Stone	Ton	494
*20023600	Filling Existing Culvert	Each	1

GENERAL PLAN & ELEVATION
 IL ROUTE 64/US ROUTE 52
 OVER UNNAMED TRIBUTARY
 TO STRADDLE CREEK
 FAP 17 - SECTION 15T-2
 CARROLL COUNTY
 STATION 1240+74
 STRUCTURE NO. 008-1098



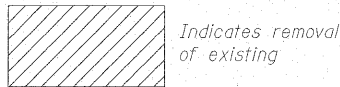
DESIGNED - BAS
CHECKED -
DRAWN - LAD
CHECKED - BAS



Contract # 64C35

STA. 1240 + 74 6'x5' DOUBLE BOX CULVERT

LEGEND



STAGE I REMOVAL

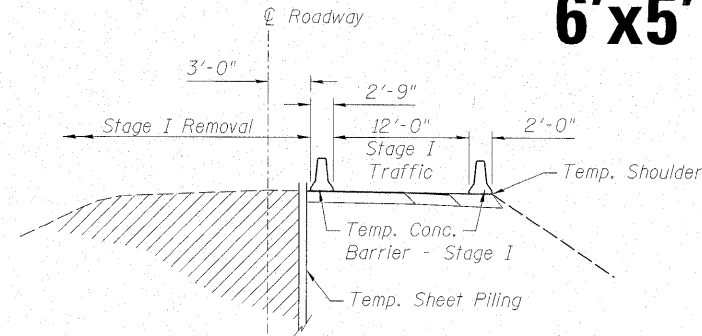
Construct temporary shoulder on north side of roadway as shown.

Install Temporary Concrete Barriers as shown to provide a single lane of traffic on the north side of the roadway.

Remove the pavement within the Stage I Removal limits.

Install Temporary Sheet Piling as shown.

Excavate embankment south of the Temporary Sheet Piling as required for construction of the new box culvert.



STAGE I REMOVAL
Looking West

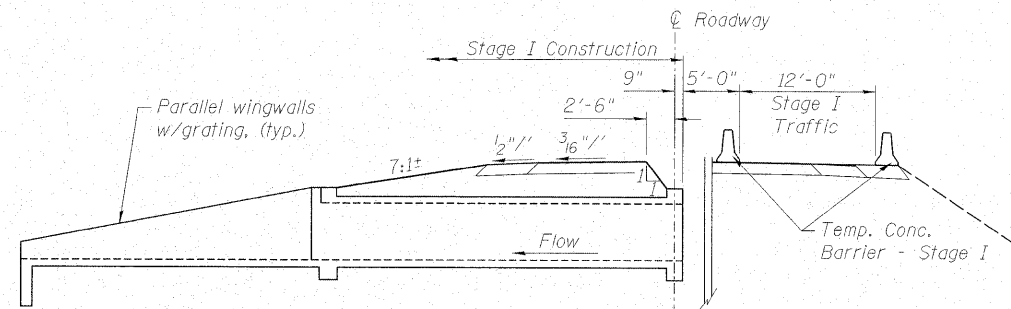
STAGE I CONSTRUCTION

Construct new box culvert to limits shown.

Install additional sheet piling outside the limits of the proposed culvert from the sheet piling to the constructed portion of the new culvert.

Place required backfill behind completed portion of box culvert for construction of roadway.

Construct proposed embankment and proposed roadway on south side of road as shown.



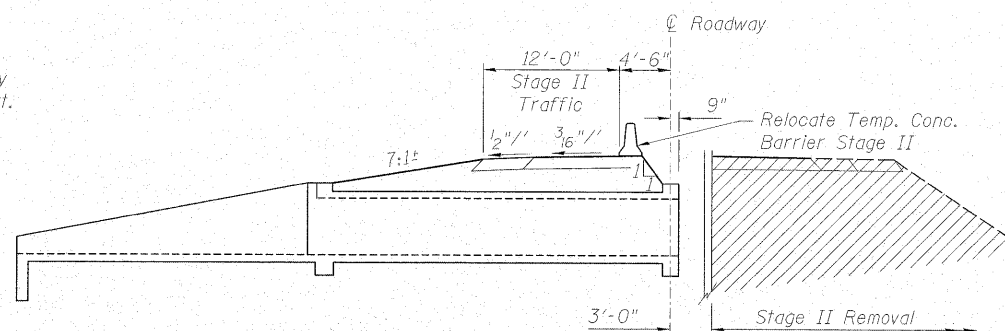
STAGE I CONSTRUCTION
Looking West

STAGE II REMOVAL

Reuse Temporary Concrete Barriers as shown to allow a single lane of traffic on west portion of new roadway completed in Stage I.

Excavate remainder of the embankment north of the Temporary Sheet Piling as needed for construction of the new box culvert.

Remove portion of sheet piling within the limits of the new box culvert as needed for construction of the culvert.



STAGE II REMOVAL
Looking West

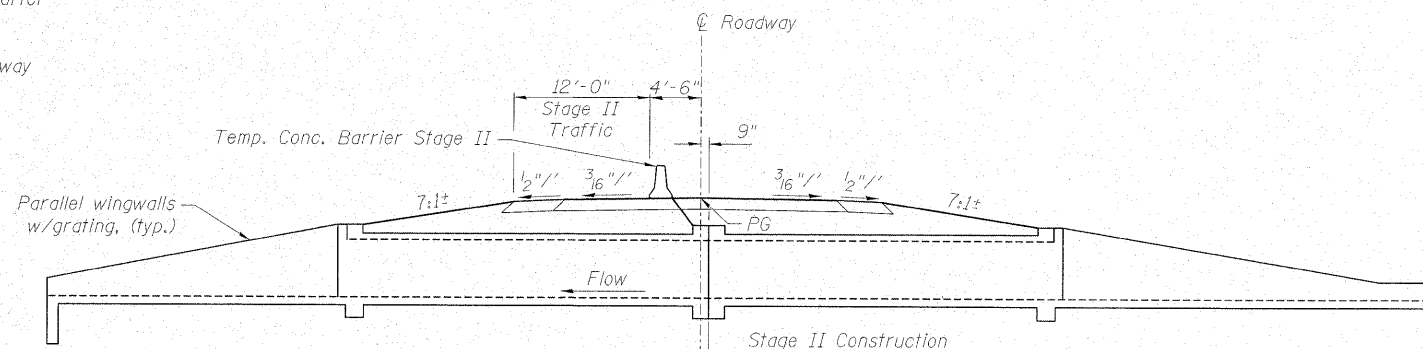
STAGE II CONSTRUCTION

Construct new box culvert to limits shown.

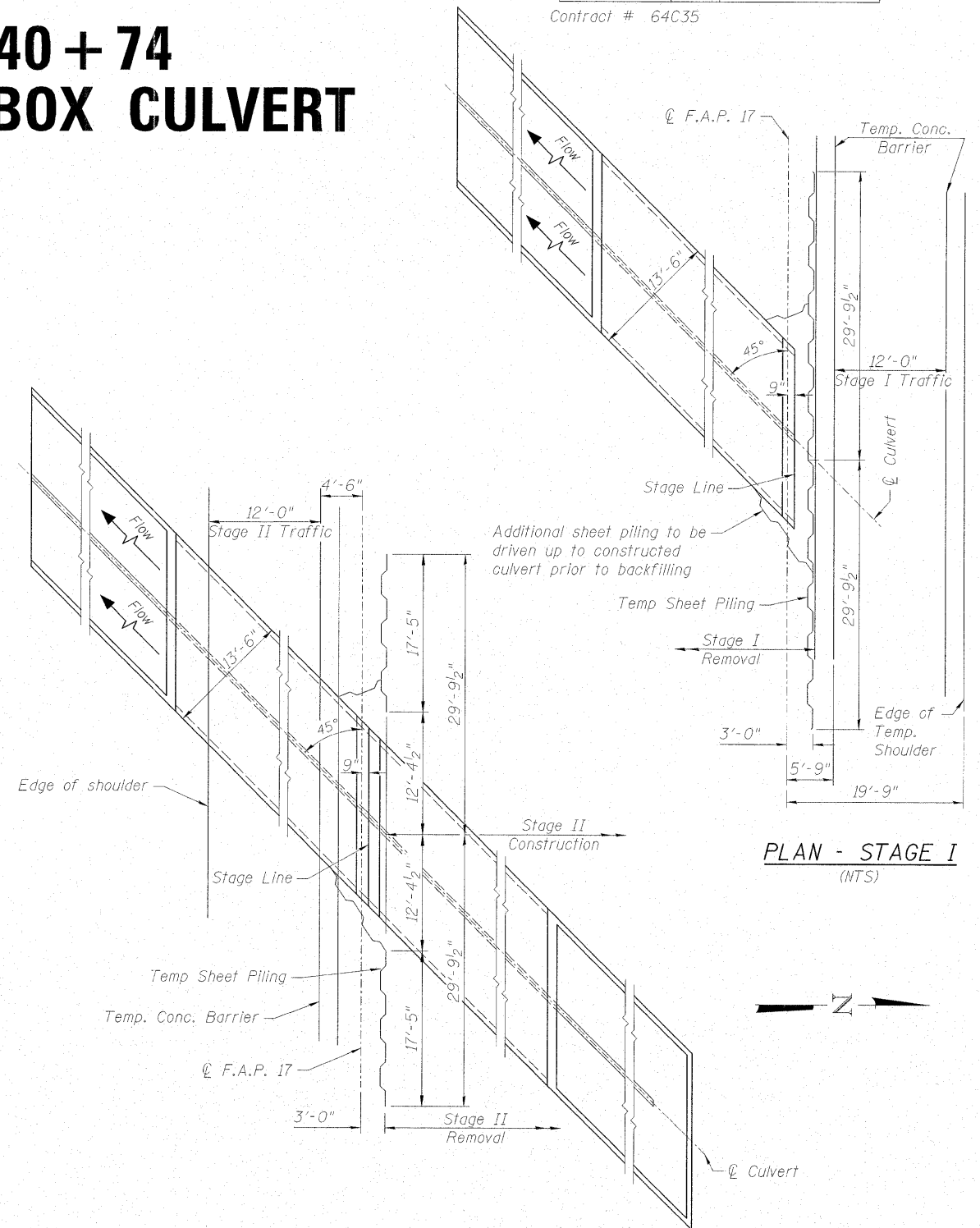
Complete required backfill behind box culvert for construction of roadway.

Remove Temporary Sheet Piling and timber lagging after completion of Stage II Construction.

Construct proposed embankment and proposed roadway on north side of road as shown.



STAGE II CONSTRUCTION
Looking West



PLAN - STAGE II
(NTS)

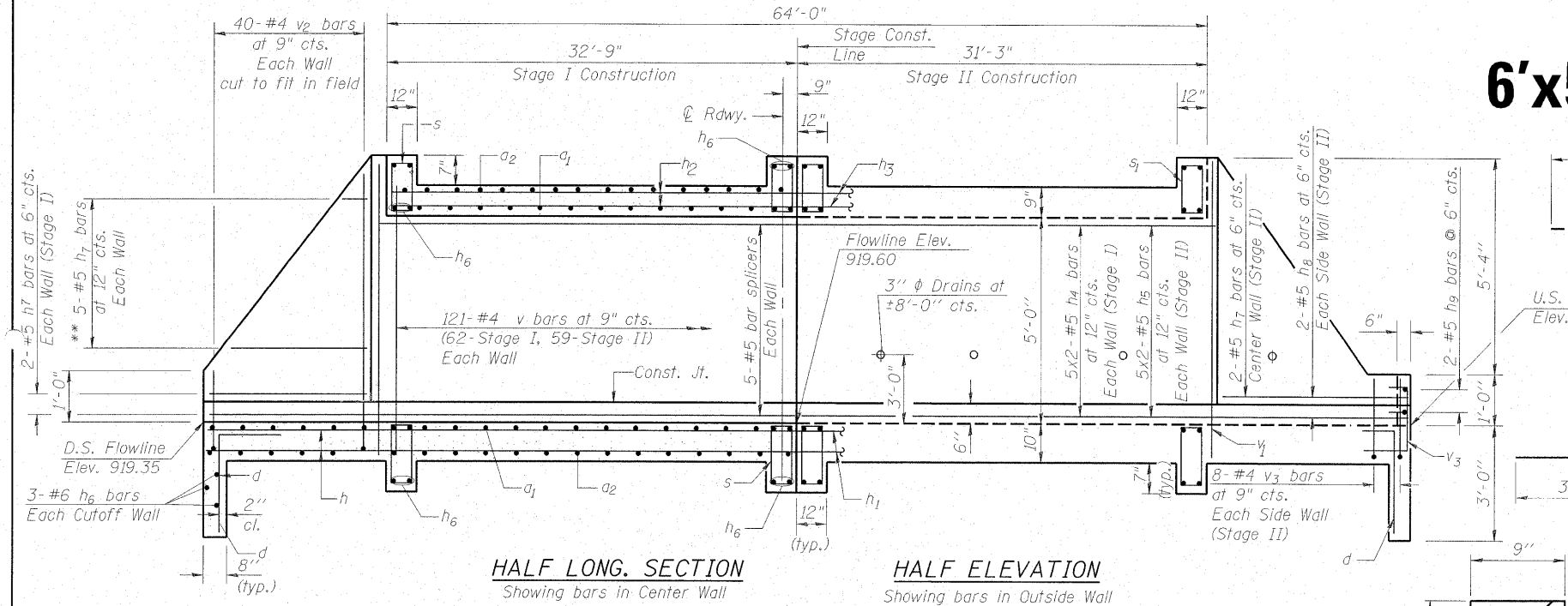
PLAN - STAGE I
(NTS)



DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

STAGE CONSTRUCTION DETAILS
IL ROUTE 64/US ROUTE 52
OVER UNNAMED TRIBUTARY
TO STRADDLE CREEK
FAP 17 - SECTION 15T-2
CARROLL COUNTY
STATION 1240+74
STRUCTURE NO. 008-1098

STA. 1240 + 74 6'x5' DOUBLE BOX CULVERT

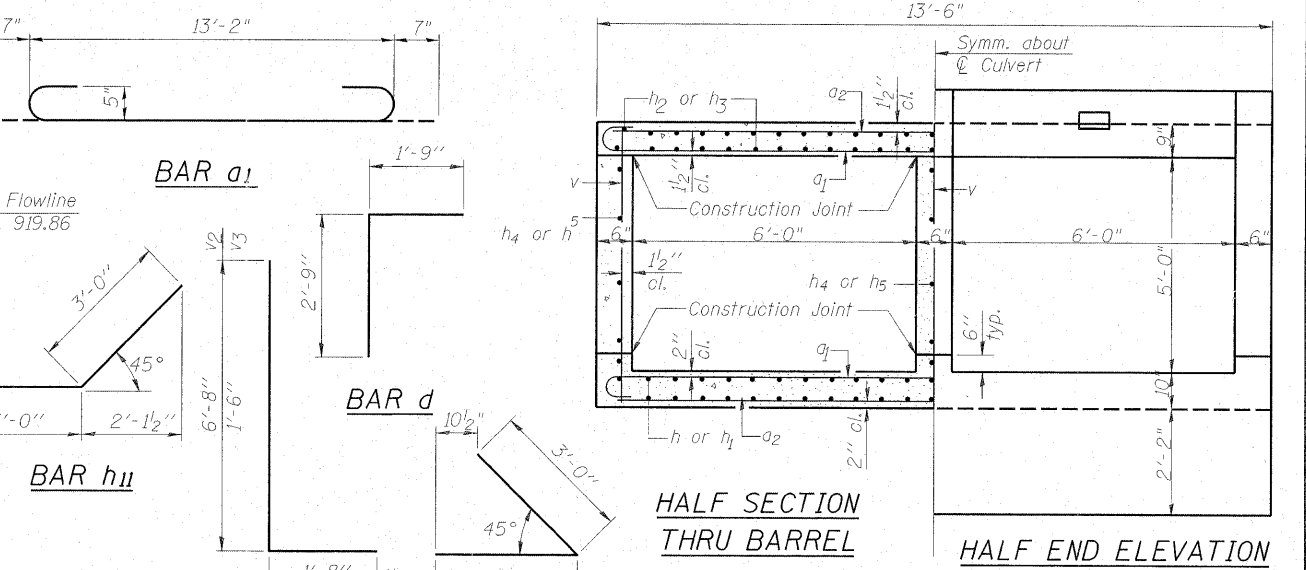
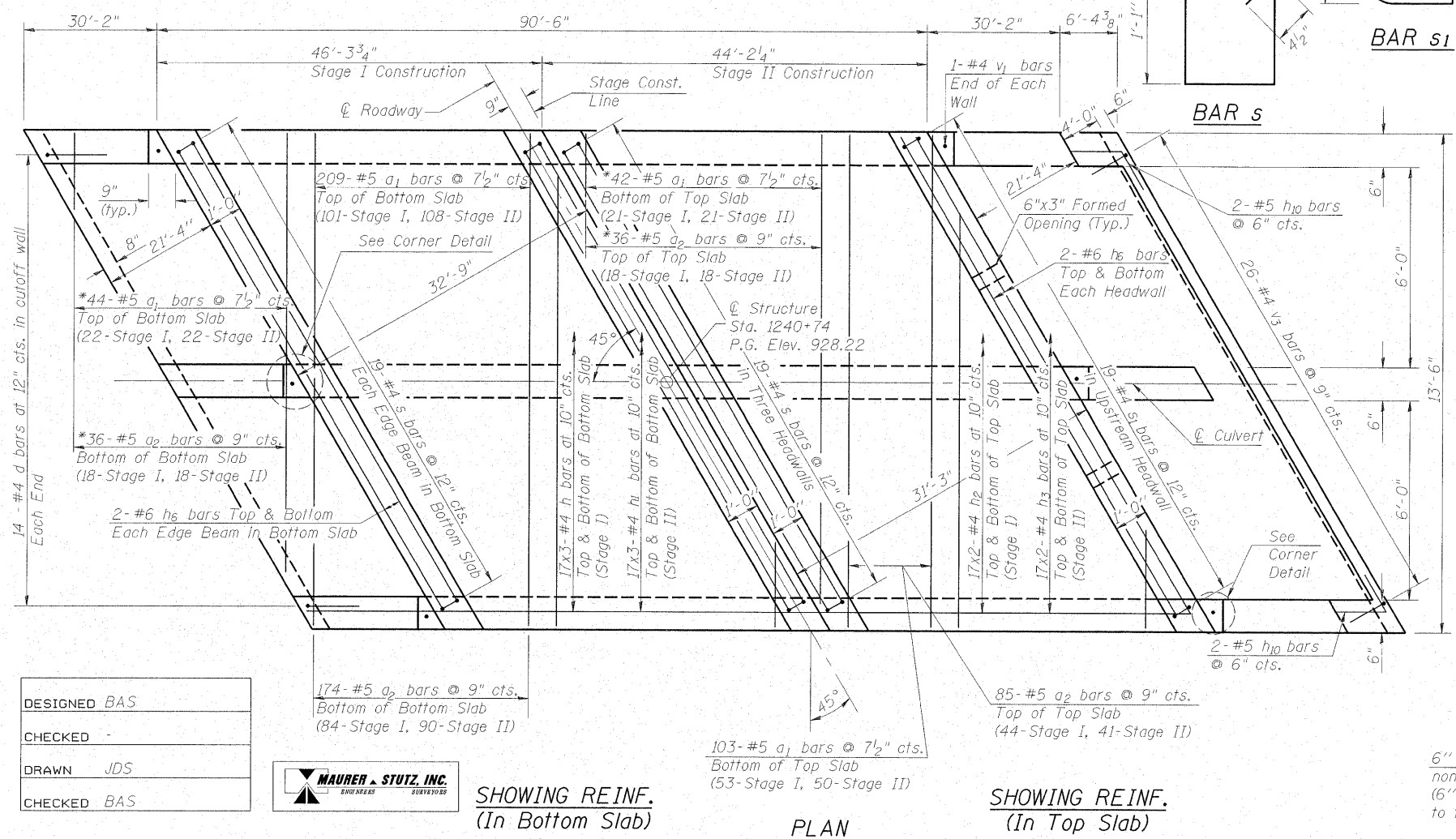


* a₂ bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of staged culverts.

** order h₇ bars full length and cut to fit in Stage I. Balance of bar to be used in Stage II walls.

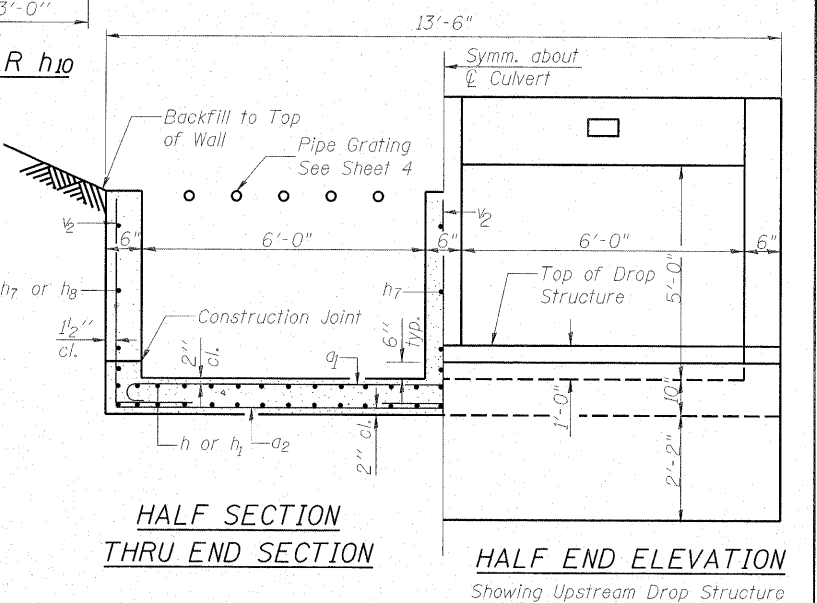
MIN. BAR LAP

#4 bar	1'-4"
#5 bar	1'-8"
#6 bar	2'-0"



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	398	#5	14'-4"	U
a ₂	331	#5	13'-2"	—
d	28	#4	4'-6"	L
h	102	#4	26'-5"	—
h ₁	102	#4	27'-10"	—
h ₂	68	#4	23'-10"	—
h ₃	68	#4	22'-9"	—
h ₄	30	#5	24'-5"	—
h ₅	30	#5	23'-4"	—
h ₆	38	#6	18'-9"	—
h ₇	23	#5	29'-4"	—
h ₈	4	#5	35'-9"	—
h ₉	2	#5	18'-9"	—
h ₁₀	2	#5	6'-0"	—
h ₁₁	2	#5	6'-0"	—
s	133	#4	4'-5"	□
s ₁	19	#4	4'-5"	□
v	363	#4	6'-3"	—
v ₁	6	#4	6'-10"	—
v ₂	240	#4	8'-4"	—
v ₃	42	#4	2'-2"	—
Concrete Box Culverts		Cu. Yd.	142.9	
Reinforcement Bars		Pound	23260	



NOTES

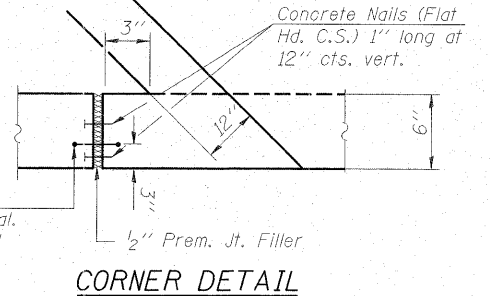
Reinforcement Bars shall conform to the requirements of ASTM A706, Grade 60, (IL modified.)

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

All construction joints shall be bonded.

Class "SI" Concrete shall be used.

The contract unit price per Cu. Yd. for Concrete Box Culverts shall include the Expansion Bolts, J Bolts, Rebar Splicers, Anchor Bolts, Bolts, Nuts, Washers, Steel Plates, Earth Excavation and Backfilling as required.



CULVERT DETAILS

IL ROUTE 64/US ROUTE 52
OVER UNNAMED TRIBUTARY
TO STRADDLE CREEK
FAP 17 - SECTION 15T-2
CARROLL COUNTY
STATION 1240+74
STRUCTURE NO. 008-1098

DESIGNED BAS
CHECKED -
DRAWN JDS
CHECKED BAS



SHOWING REINF.
(In Bottom Slab)

PLAN

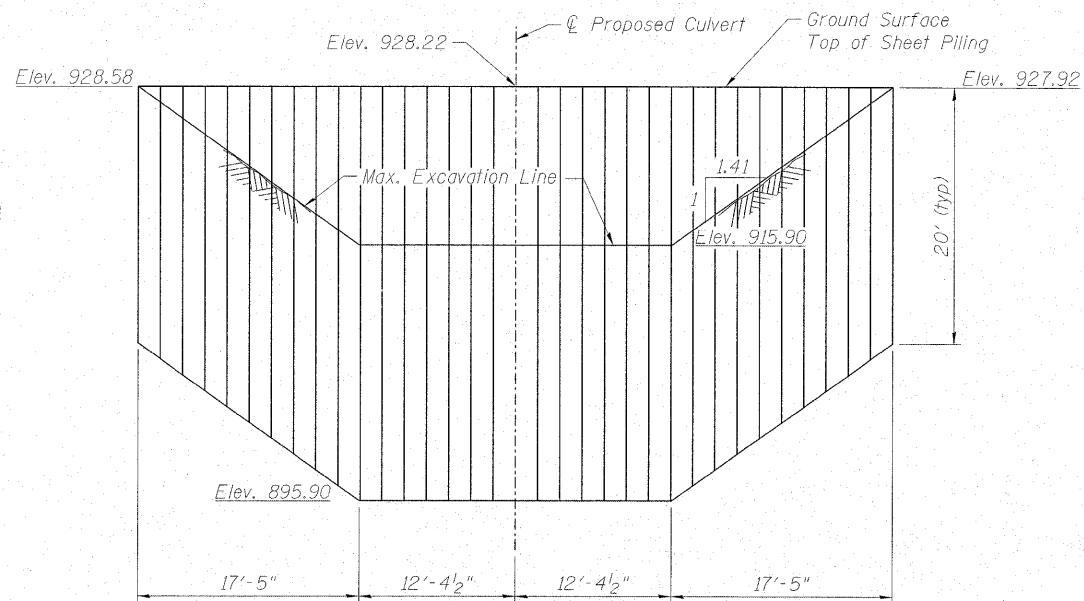
SHOWING REINF.
(In Top Slab)

STA. 1240 + 74 6'x5' DOUBLE BOX CULVERT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

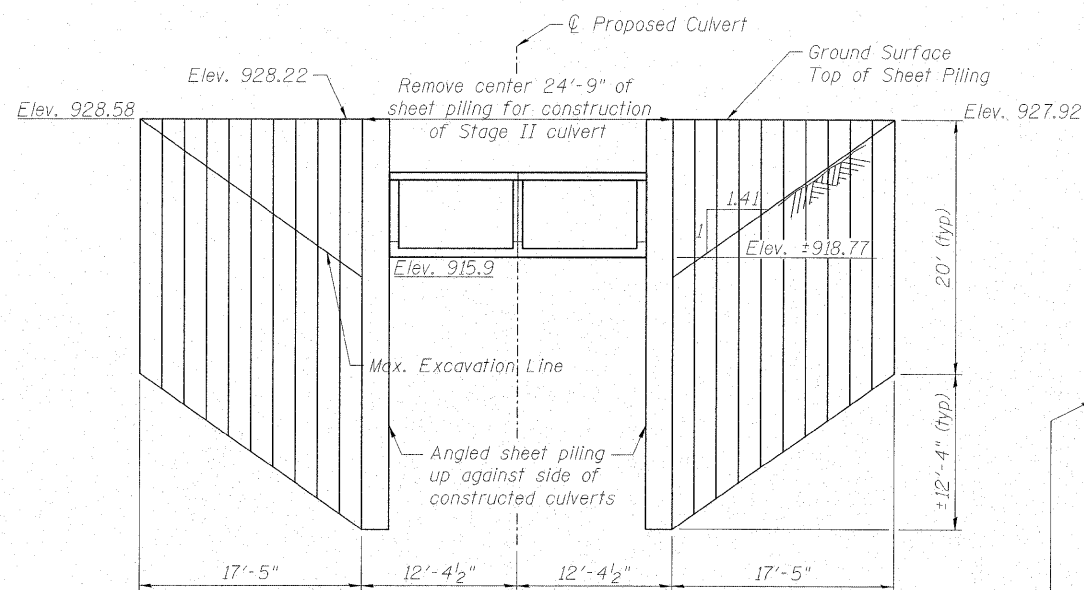
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4 6 SHEETS
F.A.P. 17	15T-2	CARROLL	71	41	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract # 64C35



STAGE I TEMPORARY SHEET PILING DETAIL

Looking South



STAGE II TEMPORARY SHEET PILING DETAIL

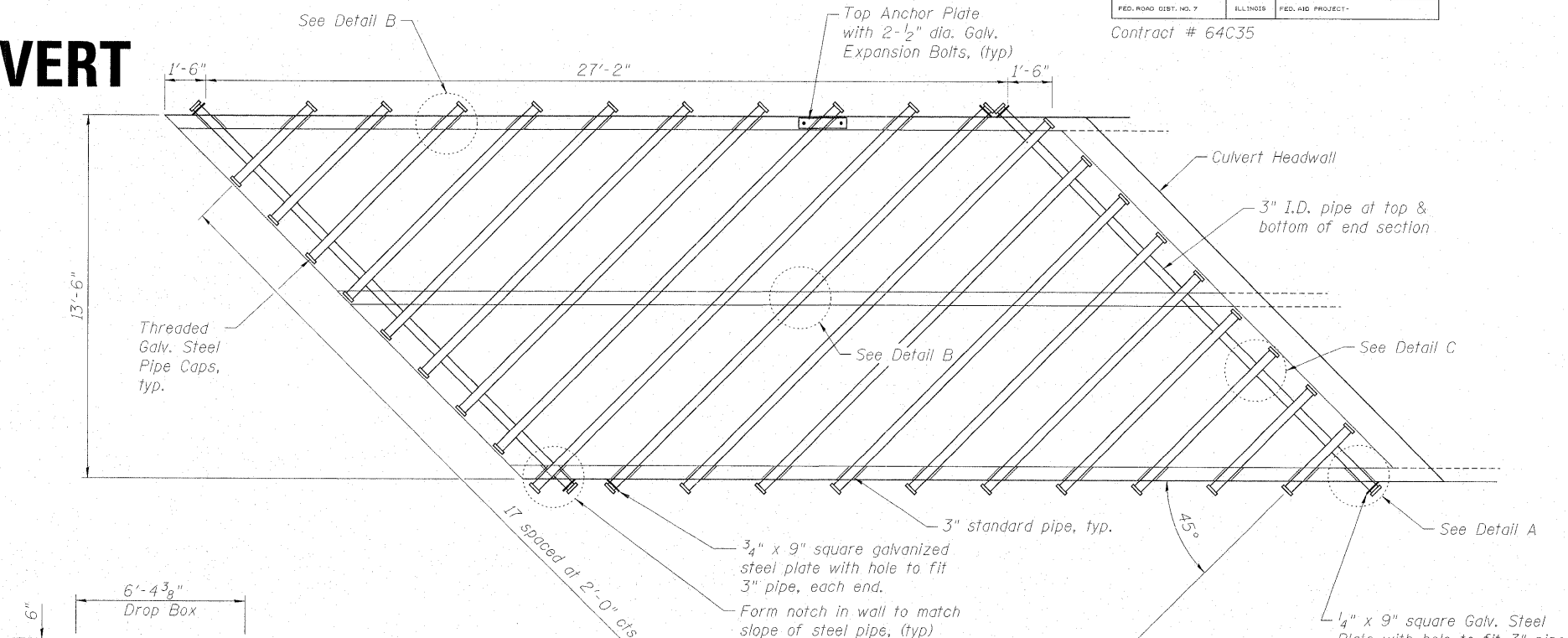
Looking South

NOTE:

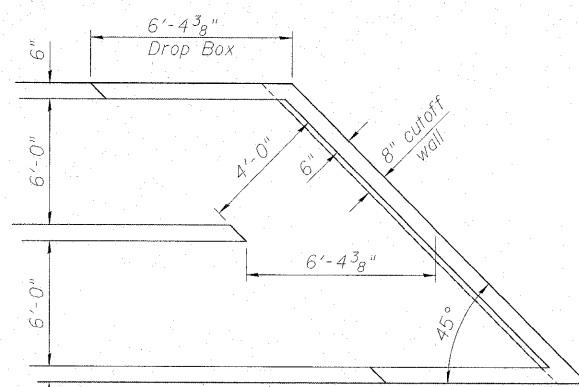
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

TEMPORARY SHEET PILING DATA

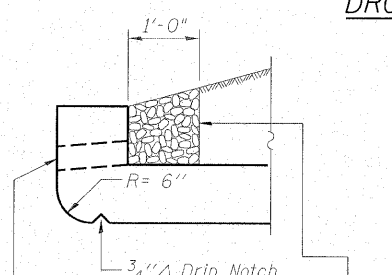
Embedment : 20'-0" beyond max. excavation
Min. Section Modulus : 28.6 in³/ft
F_y : 38,500 psi



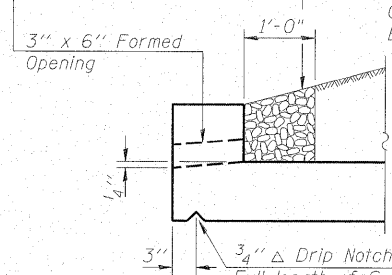
GRATING PLAN



DROP BOX PLAN



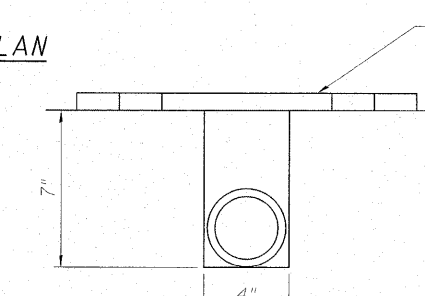
AT UPSTREAM END



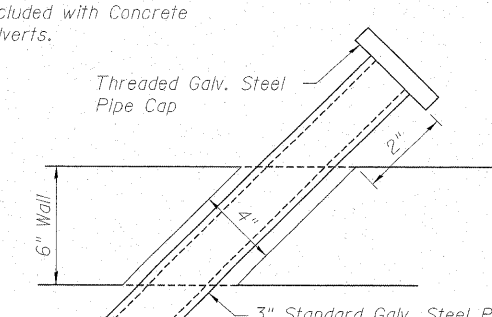
AT DOWNSTREAM END

DRAIN DETAIL

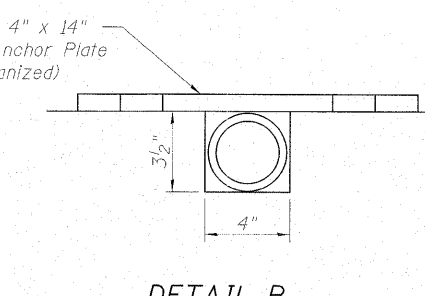
Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.



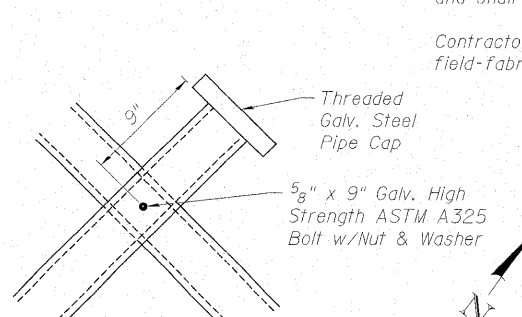
DETAIL A



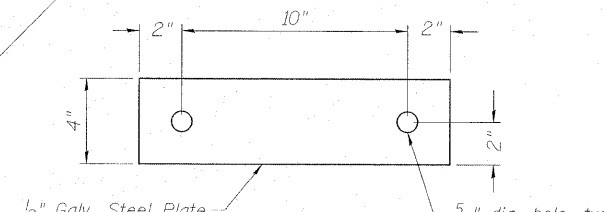
TYP. PIPE END DETAIL



DETAIL B



DETAIL C



TOP ANCHOR PLATE

GRATING NOTES

Grating shall include the pipes, plates, and expansion bolts as shown for one end section and shall be included in the contract unit price per Cu. Yd. for Concrete Box Culverts.

Steel pipes shall conform to ASTM A53, Grade B, Schedule 40, and shall be galvanized conforming to ASTM A120.

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 provide galvanizing for holes, threads, ect. for field-fabricated grate assembly.

TEMPORARY SHEET PILING
AND GRATE DETAILS
IL ROUTE 64/US ROUTE 52
OVER UNNAMED TRIBUTARY
TO STRADDLE CREEK
FAP 17 - SECTION 15T-2
CARROLL COUNTY
STATION 1240+74
STRUCTURE NO. 008-1098

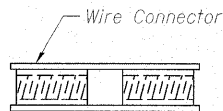
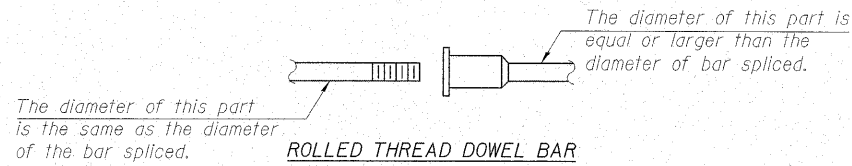


DESIGNED - BAS
CHECKED -
DRAWN - LAD
CHECKED -



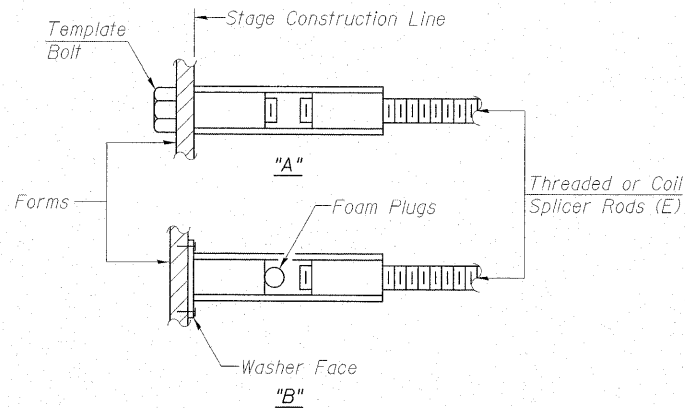
Contract # 64C35

STA. 1240 + 74 6'x5' DOUBLE BOX CULVERT



BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

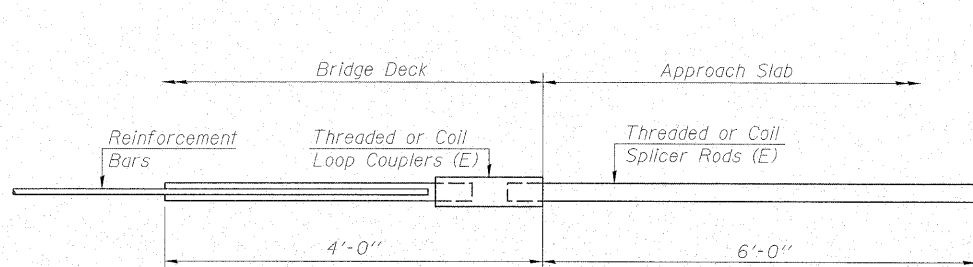
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

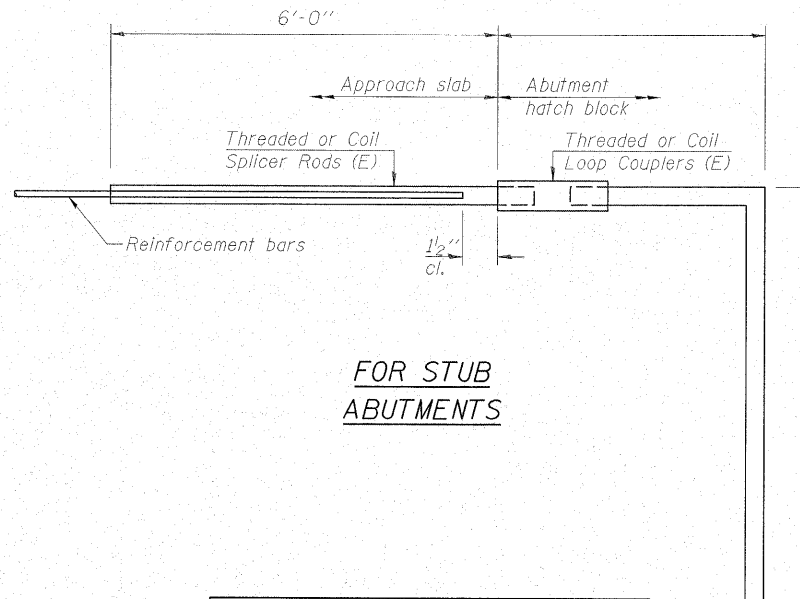
- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_l$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_l$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_l = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



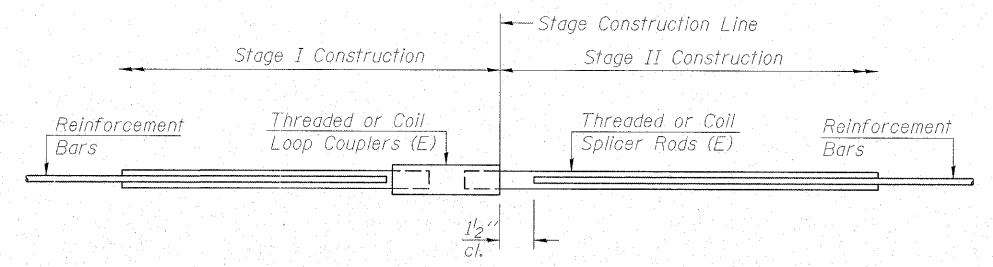
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



STANDARD

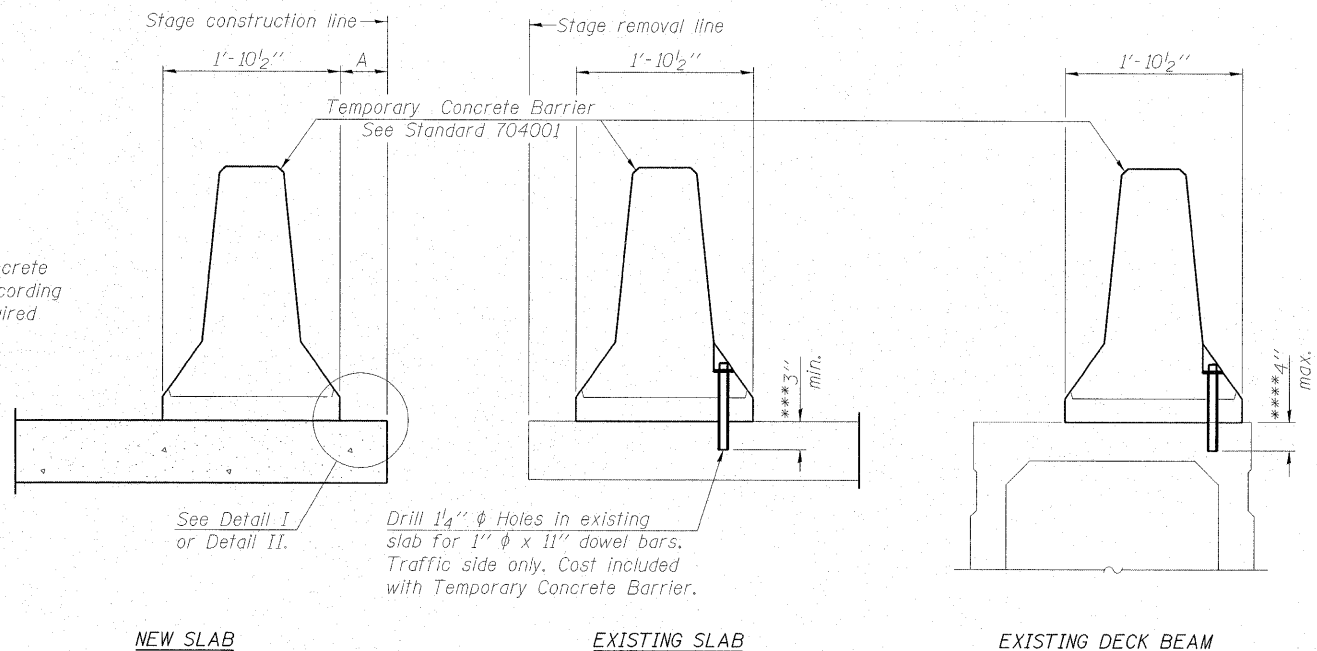
Bar Size	No. Assemblies Required	Location
#5	15	walls @ stage line
#4	34	top slab @ stage line
#4	34	bottom slab @ stage line

BAR SPLICER ASSEMBLY DETAILS
 IL ROUTE 64/US ROUTE 52
 OVER UNNAMED TRIBUTARY
 TO STRADDLE CREEK
 FAP 17 - SECTION 15T-2
 CARROLL COUNTY
 STATION 1240+74
 STRUCTURE NO. 008-1098

DESIGNED BAS
CHECKED -
DRAWN JDS
CHECKED BAS



STA. 1240 + 74 6'x5' DOUBLE BOX CULVERT



When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NEW SLAB

EXISTING SLAB

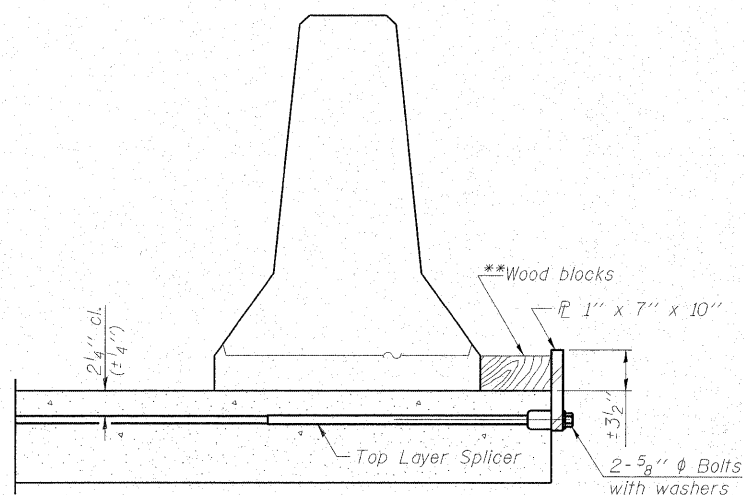
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

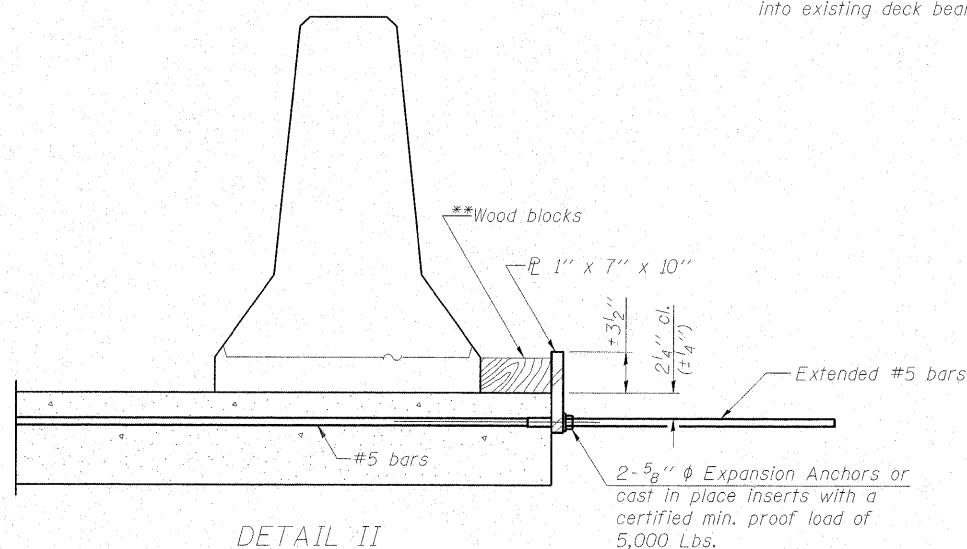
NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

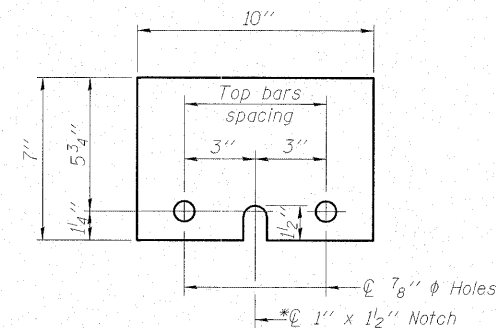
- ***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- ***If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{P} 1" x 7" x 10"

* Required only with Detail II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.


DESIGNED	BAS
CHECKED	-
DRAWN	JDS
CHECKED	BAS



TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
IL ROUTE 64/US ROUTE 52
OVER UNNAMED TRIBUTARY
TO STRADDLE CREEK
FAP 17 - SECTION 15T-2
CARROLL COUNTY
STATION 1240+74
STRUCTURE NO. 008-1098

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	46
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

BORING LOGS



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 2 of 2

Date 6/13/06

ROUTE FAP 17 DESCRIPTION P92-078-06 Box culvert, IL 64 over ditch, .2 m. W. of Shannon Road LOGGED BY W. Garza

SECTION 15 T-2 LOCATION Rock Creek Twp. - 1 SE, SEC. , TWP. 24N, RNG. 6E


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

STRUCT. NO.	D	B	U	M	Surface Water Elev. _____ ft				
Station _____	E	L	C	O	Stream Bed Elev. <u>90.0</u> ft				
	P	O	S	I					
	T	W	S	S	Groundwater Elev.:				
BORING NO. <u>B-2b</u>	H	S	Qu	T	First Encounter <u>83.3</u> ft				
Station <u>24' E</u>					Upon Completion <u>78.3</u> ft				
Offset <u>31.00ft N CL</u>					After _____ Hrs. _____ ft				
Ground Surface Elev. <u>95.3</u> ft	(ft)	(/6")	(tsf)	(%)					

MEDIUM reddish brown CLAY LOAM TILL with weathered LIMESTONE fragments (continued) End of Boring	9	10	11						
	54.30								
	-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)



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 2

Date 6/2/06

ROUTE FAP 17 DESCRIPTION P92-078-06 Box Culvert, IL 64 over a ditch, 0.25 m. E. of Shannon Road LOGGED BY P. Drezon

SECTION 15 T-2 LOCATION Lima Twp. - 6 SW, SEC. , TWP. 24N, RNG. 7E

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

STRUCT. NO.	D	B	U	M	Surface Water Elev. _____ ft				
Station _____	E	L	C	O	Stream Bed Elev. <u>92.50</u> ft				
	P	O	S	I					
	T	W	S	S	Groundwater Elev.:				
BORING NO. <u>B-1a</u>	H	S	Qu	T	First Encounter _____ ft				
Station <u>671+09 EB Lane</u>					Upon Completion _____ ft				
Offset <u>8.00ft S CL</u>					After _____ Hrs. _____ ft				
Ground Surface Elev. <u>99.9</u> ft	(ft)	(/6")	(tsf)	(%)					

Asphalt & Coal (Patch with widening) MEDIUM brown SANDY CLAY LOAM MEDIUM brown SANDY CLAY LOAM MEDIUM green SILTY CLAY with ORGANICS STIFF green SILTY CLAY MEDIUM dirty SAND MEDIUM green SILTY CLAY SOFT gray SILTY CLAY SOFT gray SILTY CLAY	2	3	6						
	97.90								
	96.40								
	93.90								
	91.40								
	88.40								
	85.90								
	83.90								
	81.40								
	78.90								
	76.40								
	73.90								
	71.40								
	68.40								
	66.40								
	63.40								
	60.90								
	58.40								

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)


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USER NAME = hamsonke

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. _____ HORIZ. _____ DATE _____

DRAWN BY _____
CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BORING LOGS



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 2 of 2
Date 4/2/07

ROUTE FAP 17 DESCRIPTION P92-078-06 Box culvert - Relocation * US 52 culvert, .25 m. E. of Shannon Road LOGGED BY W. Garza

SECTION 15 T-2 LOCATION SEC. , TWP. , RNG.


COUNTY Carroll DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Dierdrich Automatic

STRUCT. NO. <u>008-1029 *</u>	D	B	U	M	Surface Water Elev. _____ ft
Station _____	E	L	C	O	Stream Bed Elev. <u>92.0</u> ft
BORING NO. <u>B-2d</u>	P	W	S	S	Groundwater Elev.: _____
Station <u>40+83</u>	T	H	Qu	T	First Encounter <u>79.7</u> ft ▼
Offset <u>7.00ft Lt CL</u>					Upon Completion _____ ft
Ground Surface Elev. <u>99.7</u> ft					After _____ Hrs. _____ ft

Soil Description	Depth (ft)	(ft)	(/6")	(tsf)	(%)
STIFF gray LOAM TILL	4				
	5		1.7		15
	7		B		
End of Boring	58.20				

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
IDOT

SOIL BORING LOG

Page 1 of 1
Date 4/4/06

ROUTE FAP 17 DESCRIPTION P92-078-06 Box culvert, IL 64, .5 m. S. of Chambers Grove Road LOGGED BY J. Strating

SECTION 15 T-2 LOCATION Lima Twp. - 8 NE, SEC. , TWP. 24N, RNG. 7E

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

STRUCT. NO. <u>008-1032</u>	D	B	U	M	Surface Water Elev. _____ ft
Station <u>790+30</u>	E	L	C	O	Stream Bed Elev. <u>90.7</u> ft
BORING NO. <u>B-1c</u>	P	W	S	S	Groundwater Elev.: _____
Station <u>790+26</u>	T	H	Qu	T	First Encounter <u>57.5</u> ft ▼
Offset <u>49.00ft Lt CL</u>					Upon Completion <u>57.5</u> ft ▼
Ground Surface Elev. <u>92.0</u> ft					After _____ Hrs. _____ ft

Soil Description	Depth (ft)	(ft)	(/6")	(tsf)	(%)
MEDIUM brown SILTY LOAM				0.8	26
				P	
MEDIUM brown SILTY LOAM	90.00		4	1.0	33
				P	
	88.50		6		
MEDIUM tan/brown SILTY LOAM			1	1.0	28
				B	
	86.00		4		
MEDIUM tan/brown SILTY LOAM with LIMESTONE fragments			1	0.8	29
				B	
	83.50		7		
MEDIUM brown SILTY LOAM			1	1.0	25
				B	
	81.00		4		
STIFF tan/brown SILTY LOAM			2	1.1	16
				S	
	78.50		7		
STIFF brown/gray SILTY CLAY LOAM TILL			2	1.4	16
				B	
	76.00		5		
STIFF gray SILTY CLAY LOAM TILL			2	1.1	17
				B	
	73.50		5		

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)

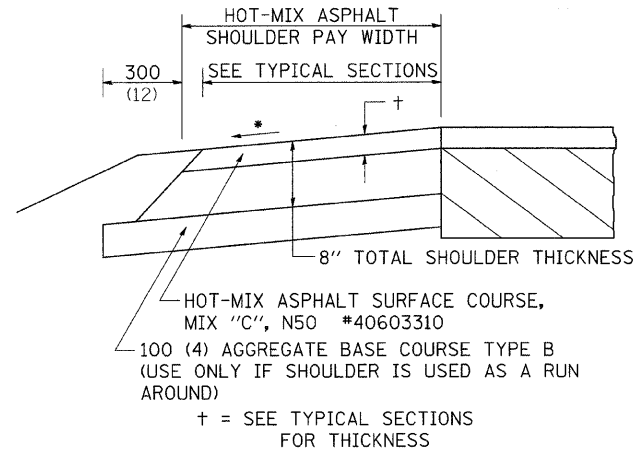
BBS, from 137 (Rev. 8-99)

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USER NAME = hennonke

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. _____ HORIZ. _____ DATE _____

DRAWN BY _____
CHECKED BY _____

HOT-MIX ASPHALT SHOULDER



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.

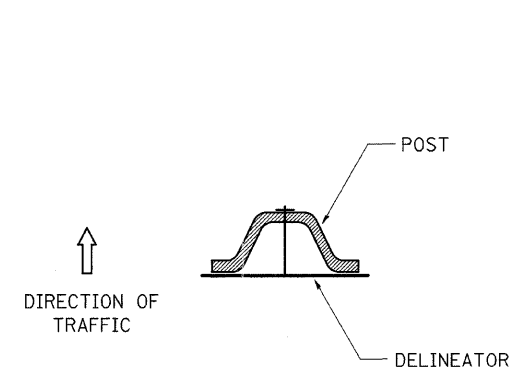
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 11-01-07

HOT-MIX ASPHALT SHOULDER 23.4a

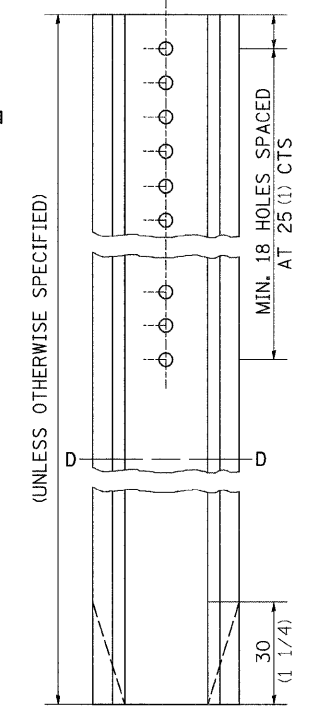
DELINEATOR AND POST ORIENTATION

CONTRACT NO. 64C35				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	51
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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.

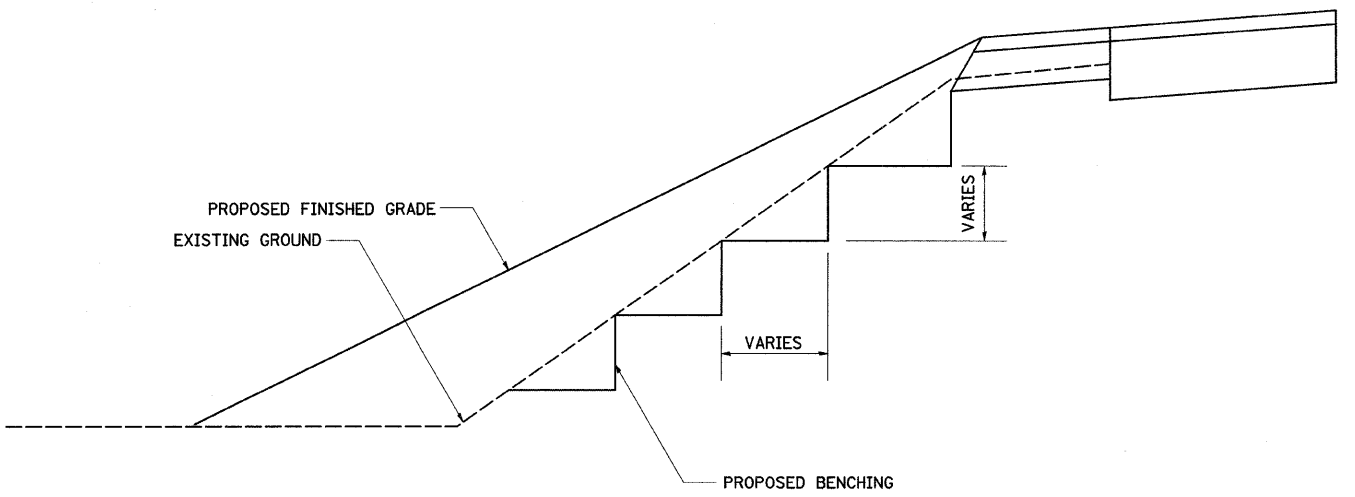
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



DELINEATOR AND POST ORIENTATION 37.4

REVISED 1-31-00

TYPICAL BENCHING ON EXISTING EMBANKMENT

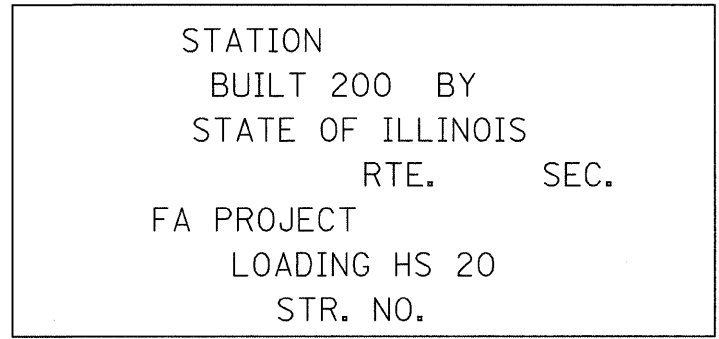


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TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

REVISED 2-22-06

LETTERING FOR NAME PLATE

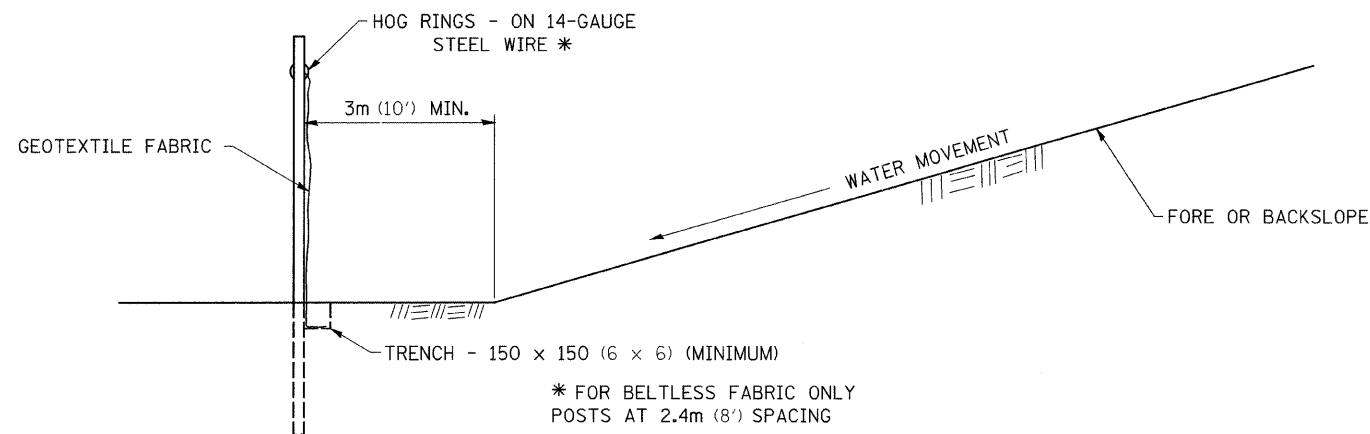
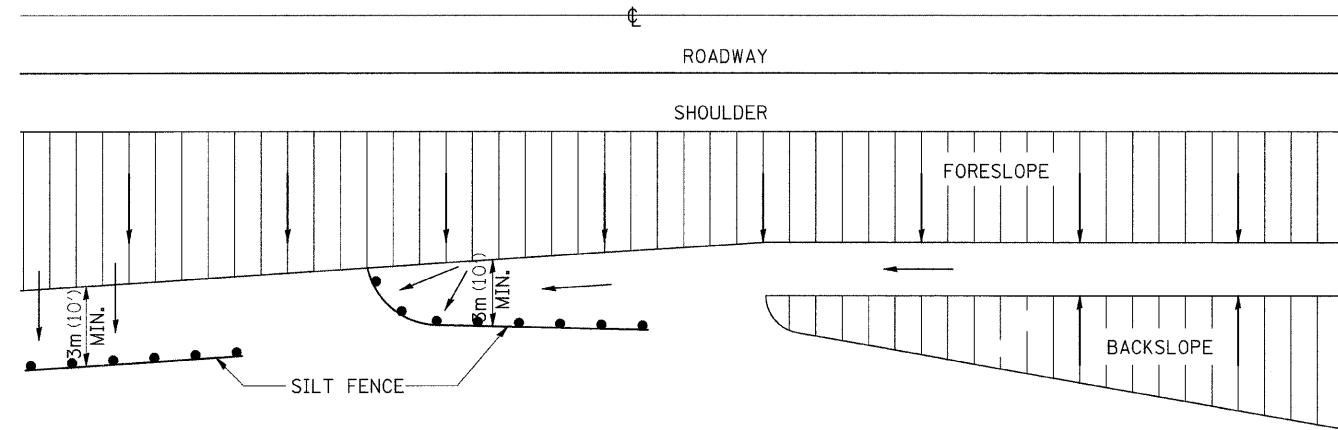


ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

LETTERING FOR NAME PLATE 89.4

REVISED 10-15-04

EROSION CONTROL DETAILS FOR SILT FENCE

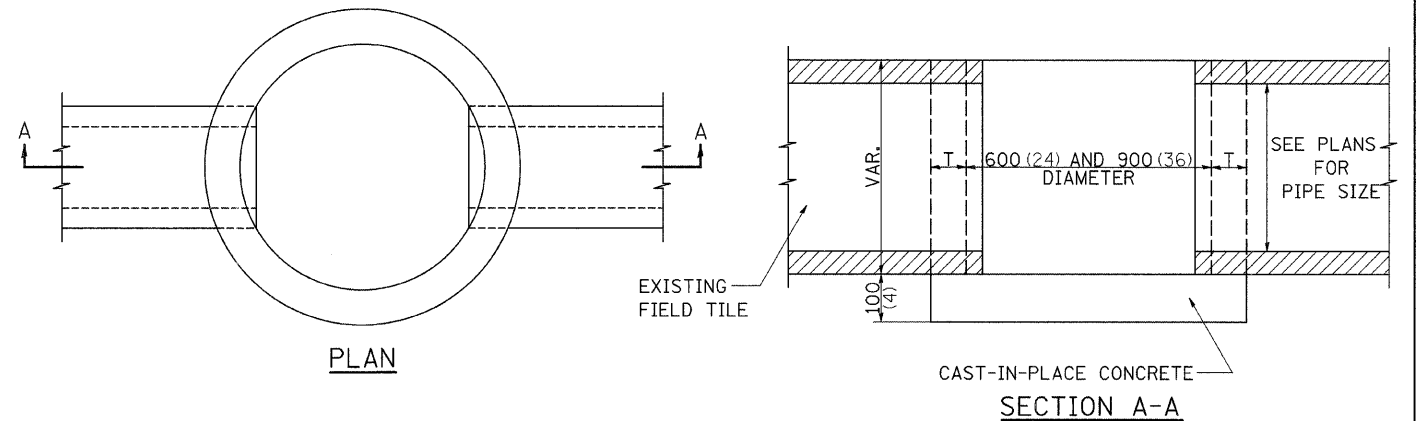
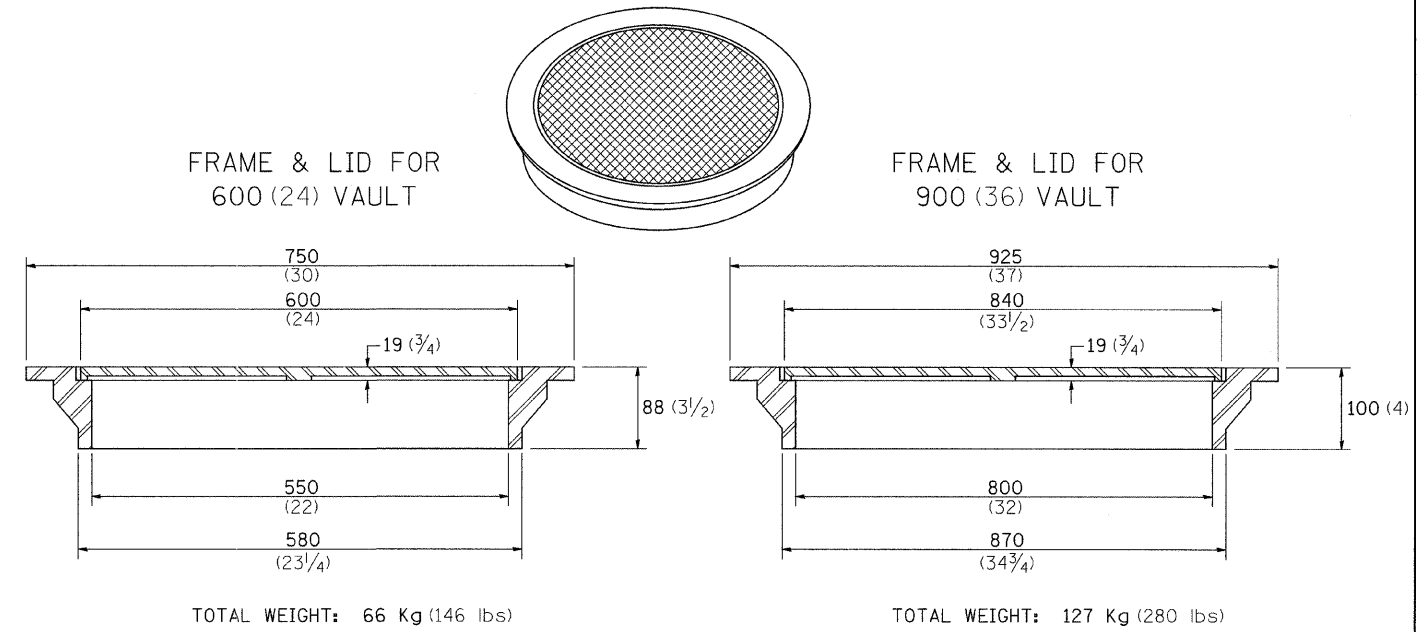


DETAILS OF SILT FENCE

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

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

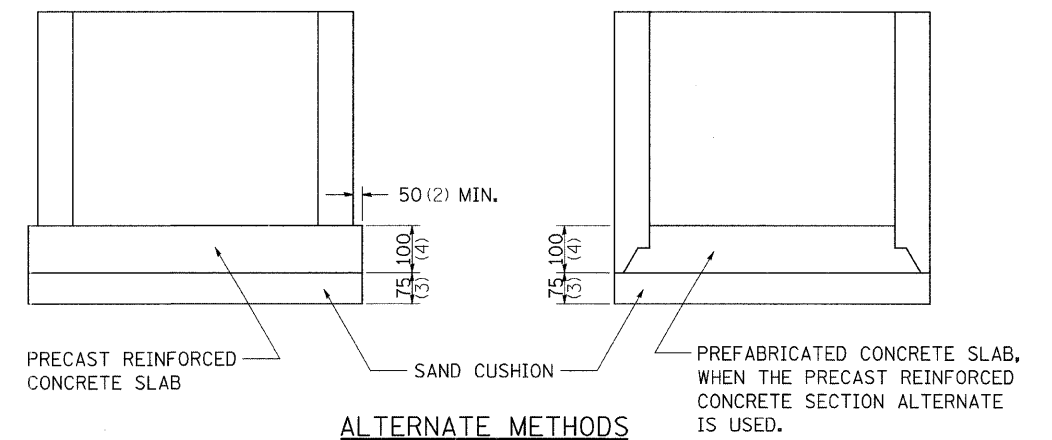
CONTRACT NO. 64C35				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	53
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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.

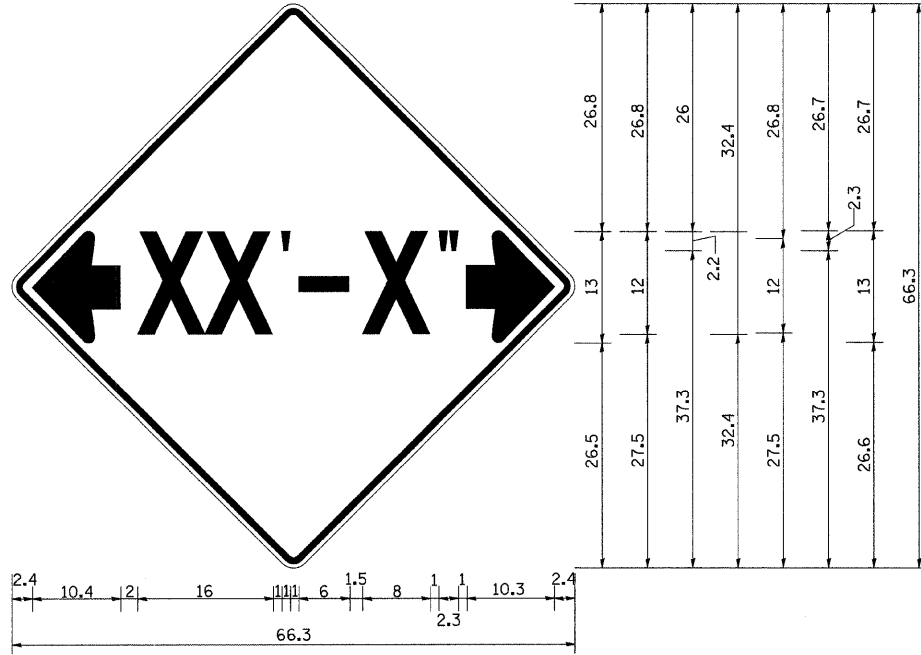
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



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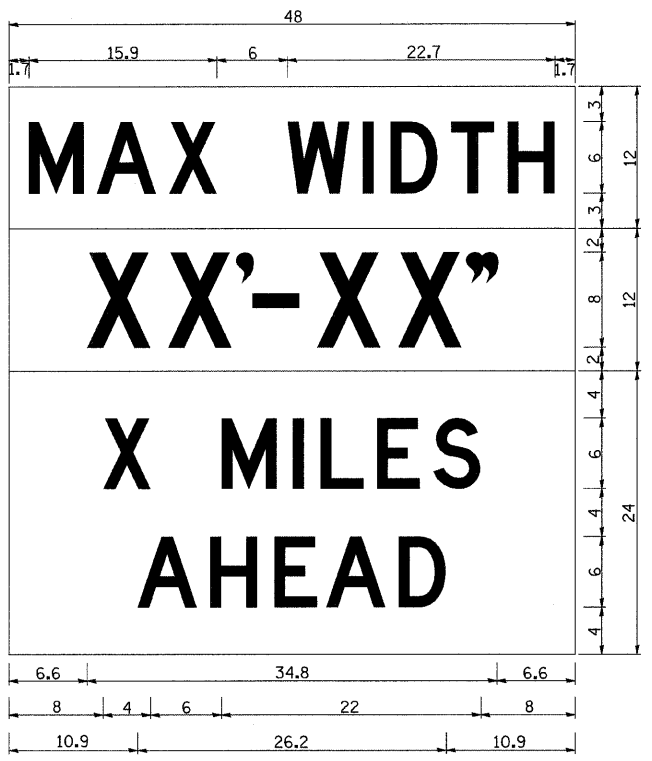
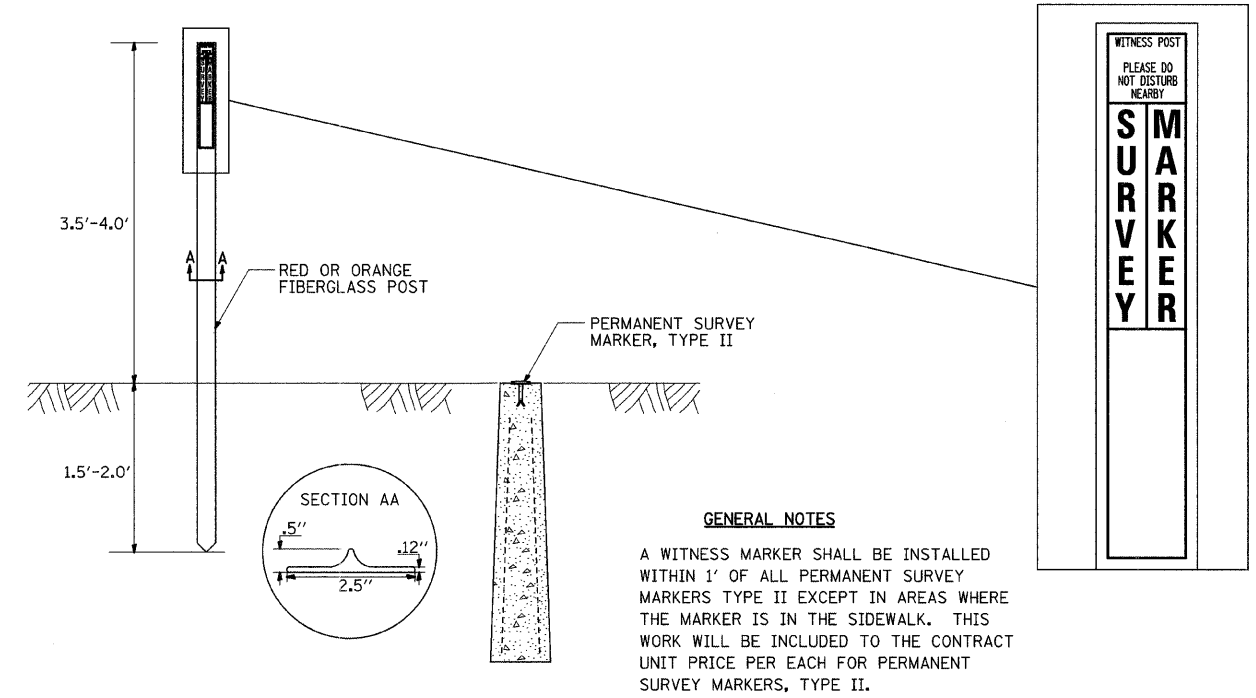
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	54
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
 W12-2 - Horizontal Clearance Sign
 48.0" across sides, 1.9" Radius,
 0.8" Border, 0.5" Indent, Black on
 Orange; Standard Arrow Custom
 10.4" X 8.1" 180° Black 11 Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



W12-I103 (Width is 8D);
 No border, Black on White;
 [MAX WIDTH] D;

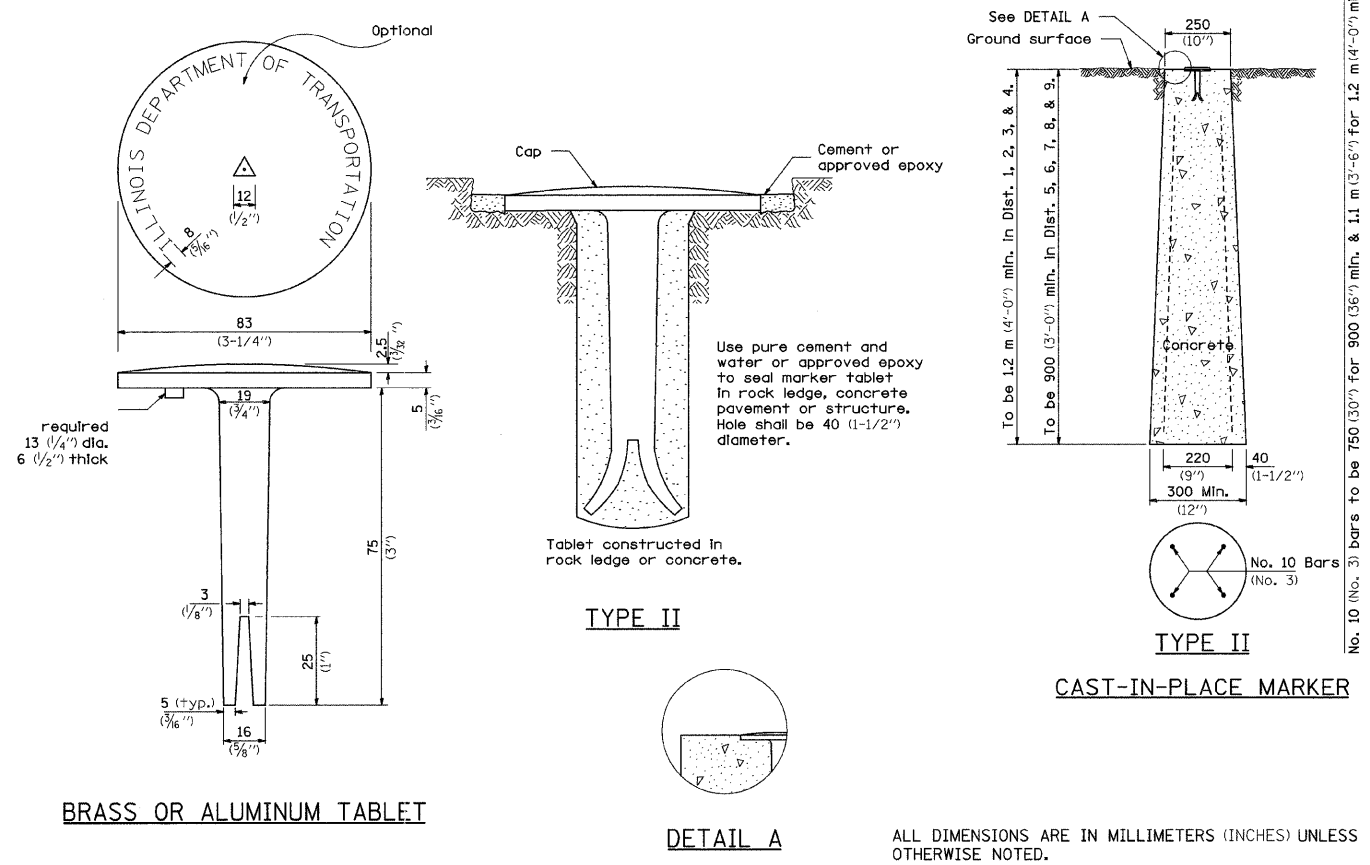
 No border, Black on Orange;
 [XX'-XX''] D;

 No border, Black on White;
 [X MILES] D; [AHEAD] D;

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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

PERMANENT SURVEY MARKERS, TYPE II

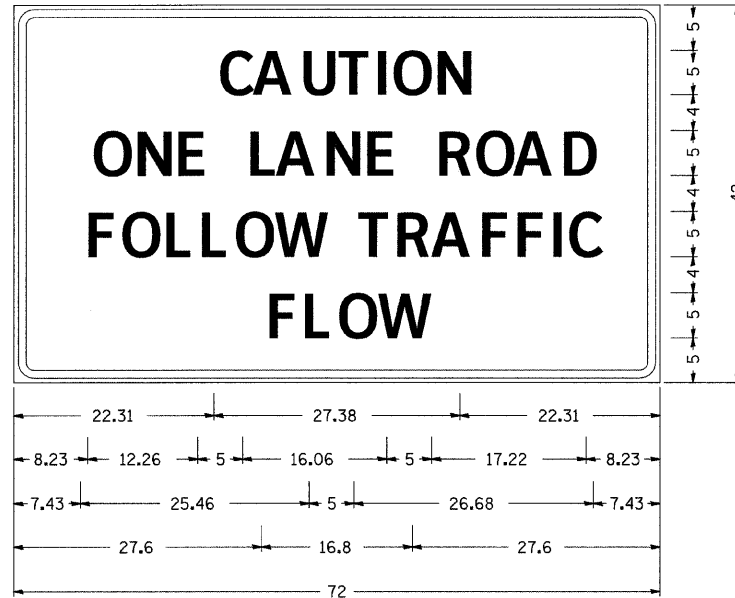


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REVISED - 1-9-08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	55
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheeting ;
 2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;
 [CAUTION] D; [ONE LANE ROAD] D;
 [FOLLOW TRAFFIC] D; [FLOW] D

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
8.23	O	3.51	1.17	N	3.36	1.18	E	3.04													
	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05										
	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23									
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37				
	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60									

GENERAL NOTES

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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

PLOT DATE = Mon Jan 28 07:47:10 2008
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 REFERENCE = #REF#

STORM WATER POLLUTION PREVENTION PLAN

EROSION CONTROL PLAN

CONTRACT NO. 64C35				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	56
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

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

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

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVAL AND REPLACEMENT OF 3 CULVERTS

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

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

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 2.94 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 3.65 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 2.06 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

UN-NAMED TRIBUTARY TO STRADDLE CREEK

UN-NAMED TRIBUTARY TO MIDDLE CREEK

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.

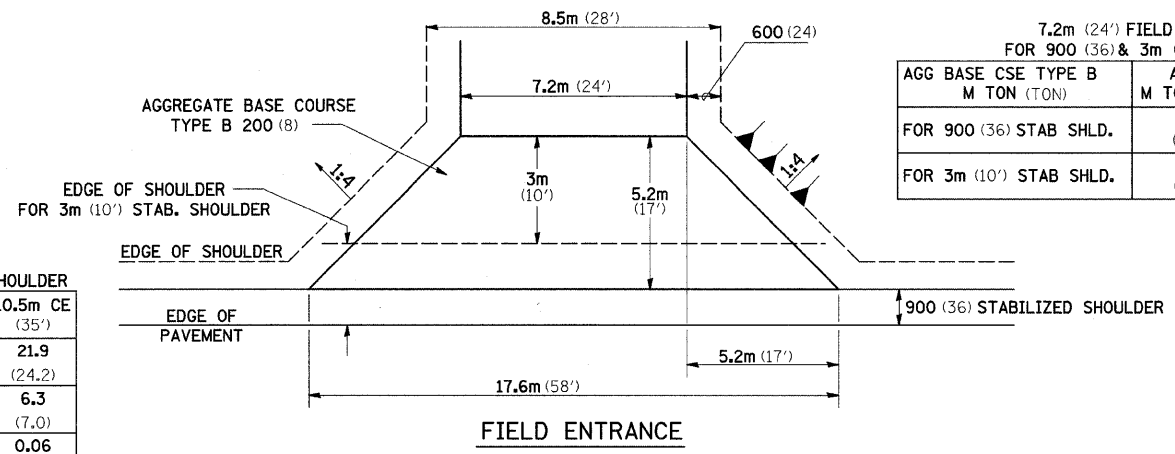
MAINTENANCE AFTER FINAL GRADING

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.

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17	15T-2	CARROLL	71	57
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

HOT-MIX ASPHALT APPROACHES & MAILBOX TURNOUTS

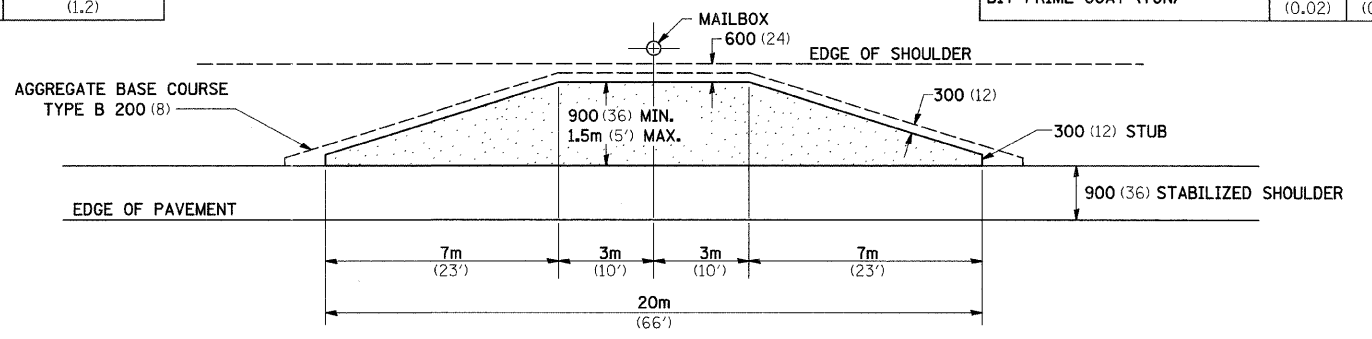


7.2m (24') FIELD ENTRANCE FOR 900 (36) & 3m (10') SHOULDERS

AGG BASE CSE TYPE B M TON (TON)	APRON M TON (TON)	PER METER (FOOT) ADD. RUN
FOR 900 (36) STAB SHLD.	31.3 (35.3)	3.5 (1.2)
FOR 3m (10') STAB SHLD.	14.9 (17.2)	3.5 (1.2)

PE & CE FOR 3m (10') STAB. SHOULDER

	3.6m PE (12')	10.5m CE (35')
AGG BASE CSE (TON)	11.4 (12.6)	21.9 (24.2)
INC HMA SURF (TON)	3.1 (3.4)	6.3 (7.0)
PRIME (TON)	0.04 (0.04)	0.06 (0.07)



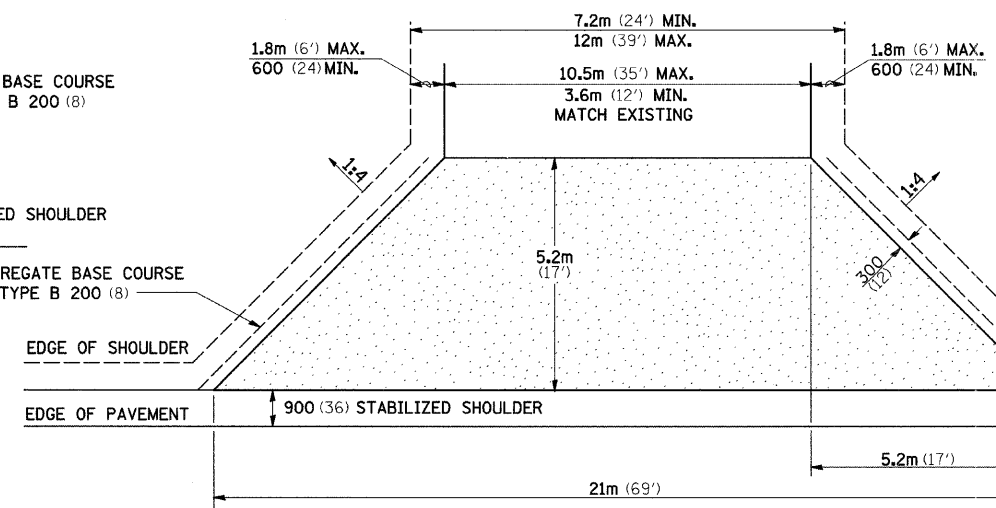
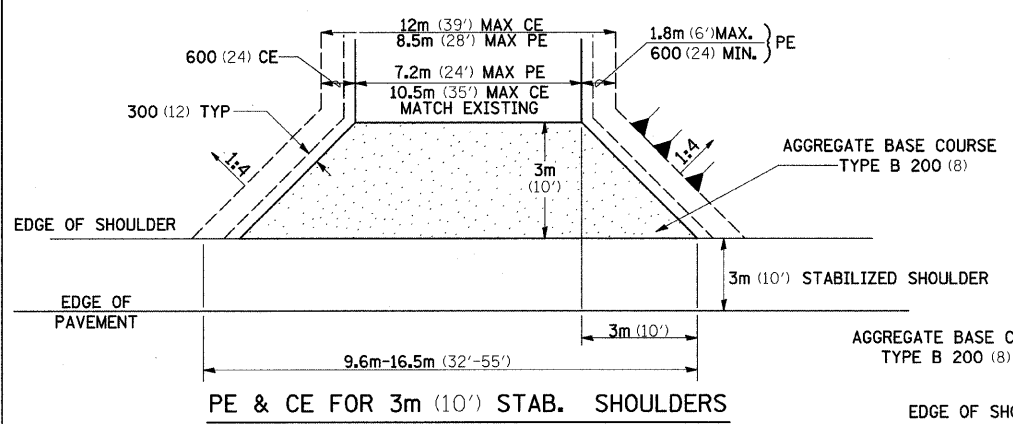
	900 (36)	1.5m (5')
AGG BASE CSE T-B (TON)	10.7 (11.8)	14.4 (15.9)
INC BIT SURF 50 (2) (TON)	2.2 (2.4)	3.4 (3.8)
BIT PRIME COAT (TON)	0.02 (0.02)	0.04 (0.04)

MAILBOX TURNOUT

10.5m (35') COMMERCIAL ENTRANCE FOR 900 (36) STAB. SHOULDER

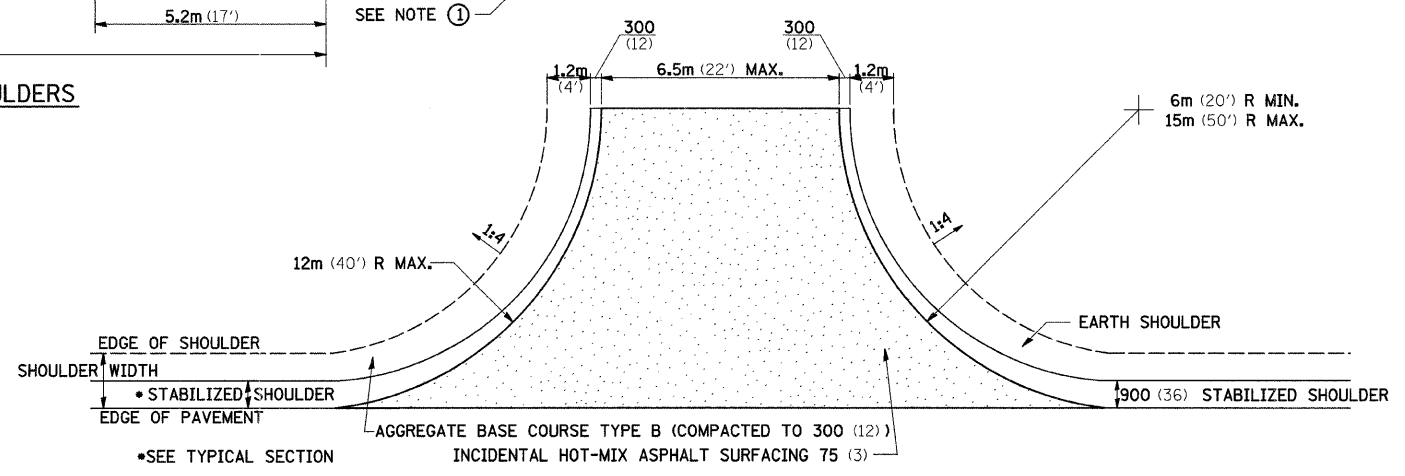
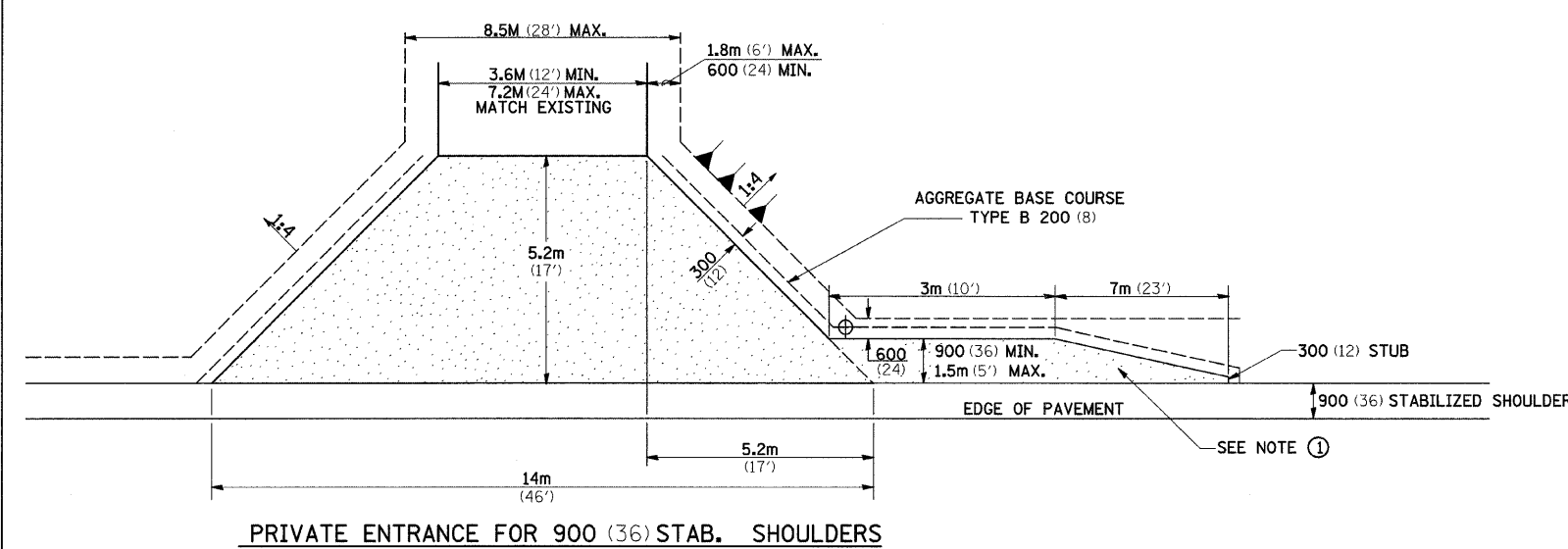
	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	47.4 (52.2)	48.7 (53.7)	5.7 (1.9)
INC HMA SURF 50 (2) (TON)	13.4 (14.8)	14.0 (15.4)	1.6 (0.55)
BIT PRIME COAT (TON)	0.14 (0.15)	0.15 (0.16)	0.018 (0.006)

- NOTE**
- ALL ENTRANCES TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
 - TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
 - ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
 - FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN WHICH EVER IS GREATER.
 - QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
 - ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



3.6m (12') PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDER

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE (TON)	29.4 (32.4)	30.8 (33.9)	0.64 (0.7)
INC HMA SURF 50 (2) (TON)	7.8 (8.6)	8.4 (9.3)	0.17 (0.19)
BIT PRIME COAT (TON)	0.08 (0.09)	0.09 (0.10)	0.006 (0.002)



	6m (20') RADIUS			9m (30') RADIUS			12m (40') RADIUS		
	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')
AGG BASE CSE T-B (TON)	20 (22.1)	21.6 (23.8)	23.1 (25.5)	37 (40.8)	39.5 (43.5)	42 (46.3)	57.9 (63.8)	61.3 (67.6)	64.7 (71.3)
INC HMA SURF 75 (3) (TON)	5.5 (6.1)	6.2 (6.8)	6.6 (7.25)	10.5 (11.6)	11.2 (12.4)	12.1 (13.3)	16.7 (18.4)	17.7 (19.5)	18.7 (20.6)
BIT PRIME CSE T-B (TON)	0.05 (0.06)	0.06 (0.07)	0.06 (0.07)	0.11 (0.12)	0.11 (0.12)	0.12 (0.13)	0.16 (0.18)	0.18 (0.20)	0.19 (0.21)

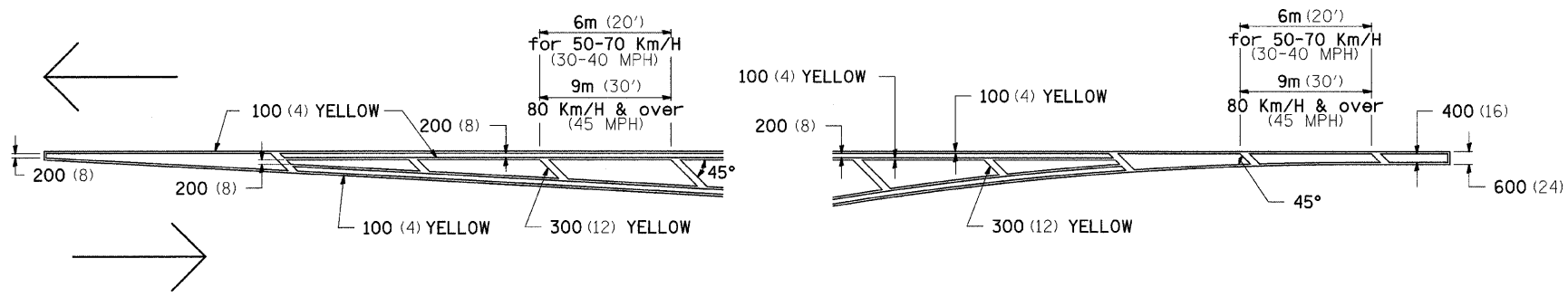
NOTE: USE 50 (2) INC. HMA SURF. ON EXISTING RETURNS

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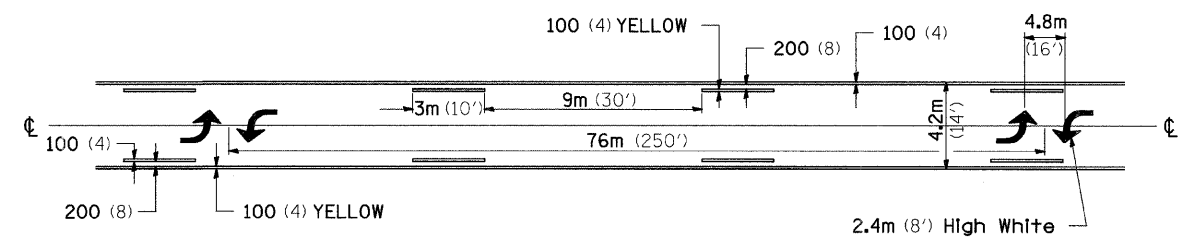
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	58
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

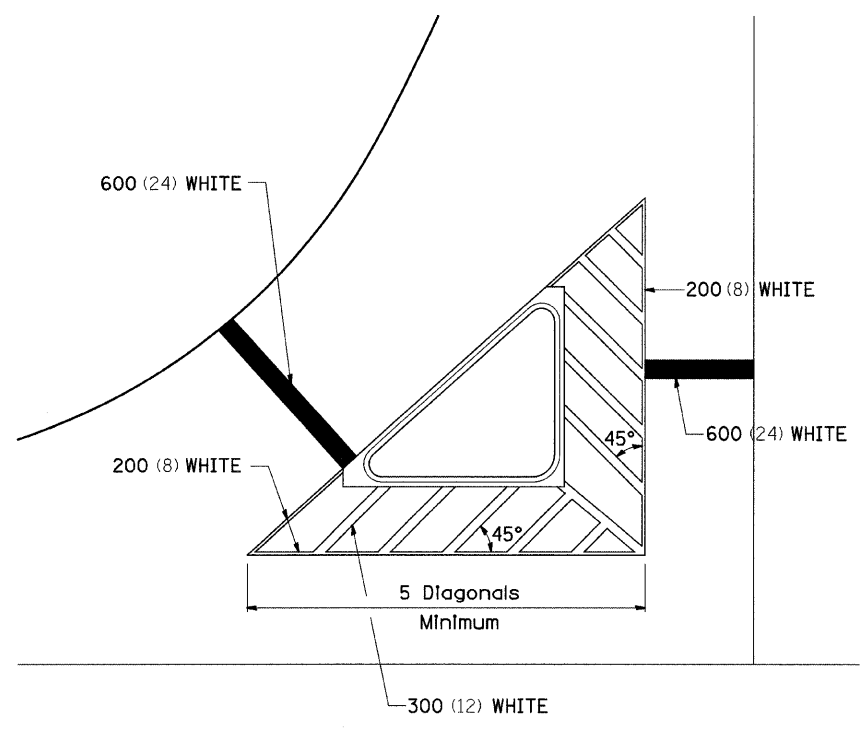
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



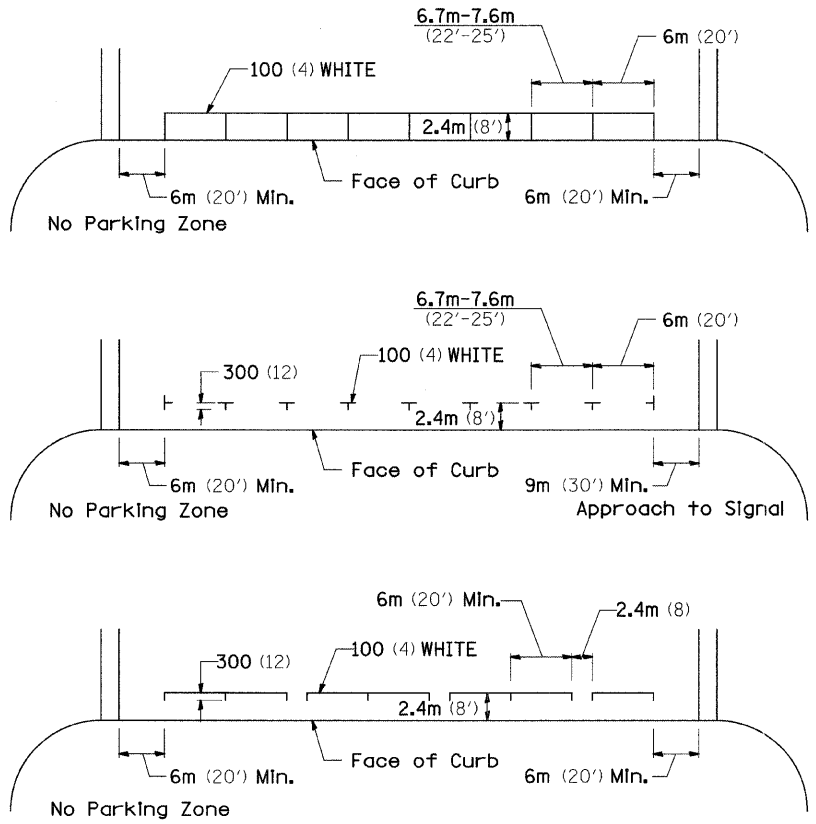
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



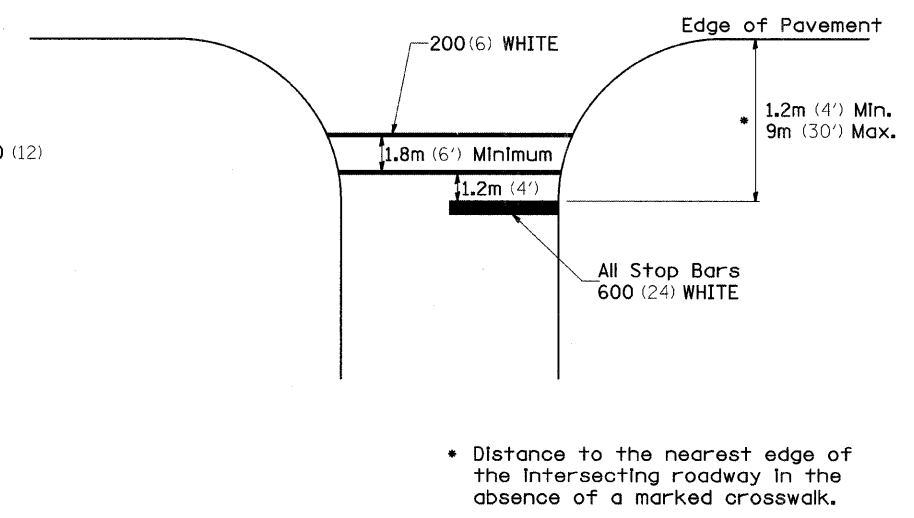
TYPICAL PARKING SPACING



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

STANDARD CROSSWALK MARKING

See Schedules for Locations



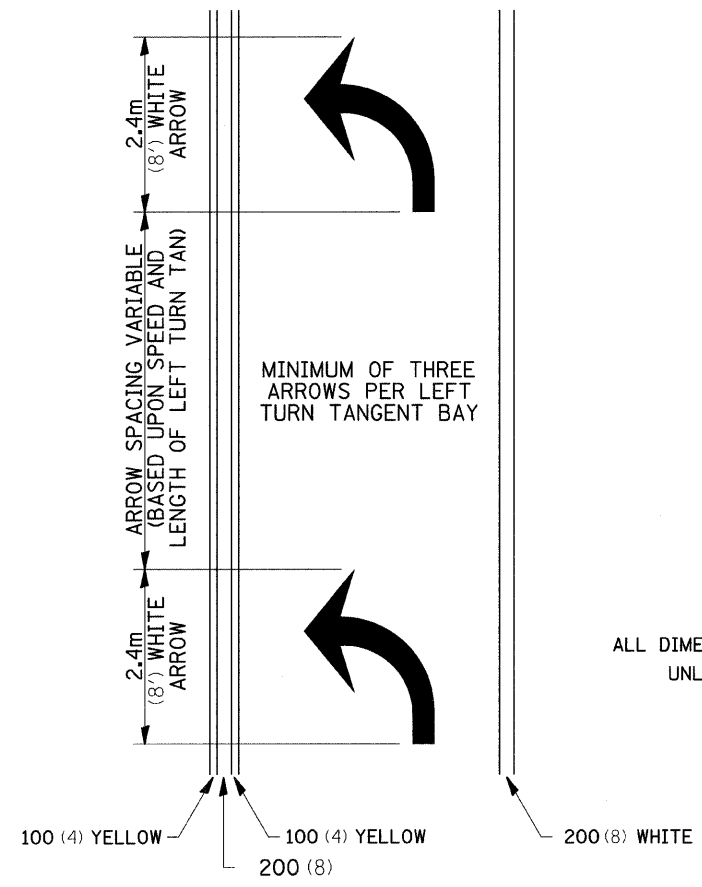
* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

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

TYPICAL PAVEMENT MARKINGS

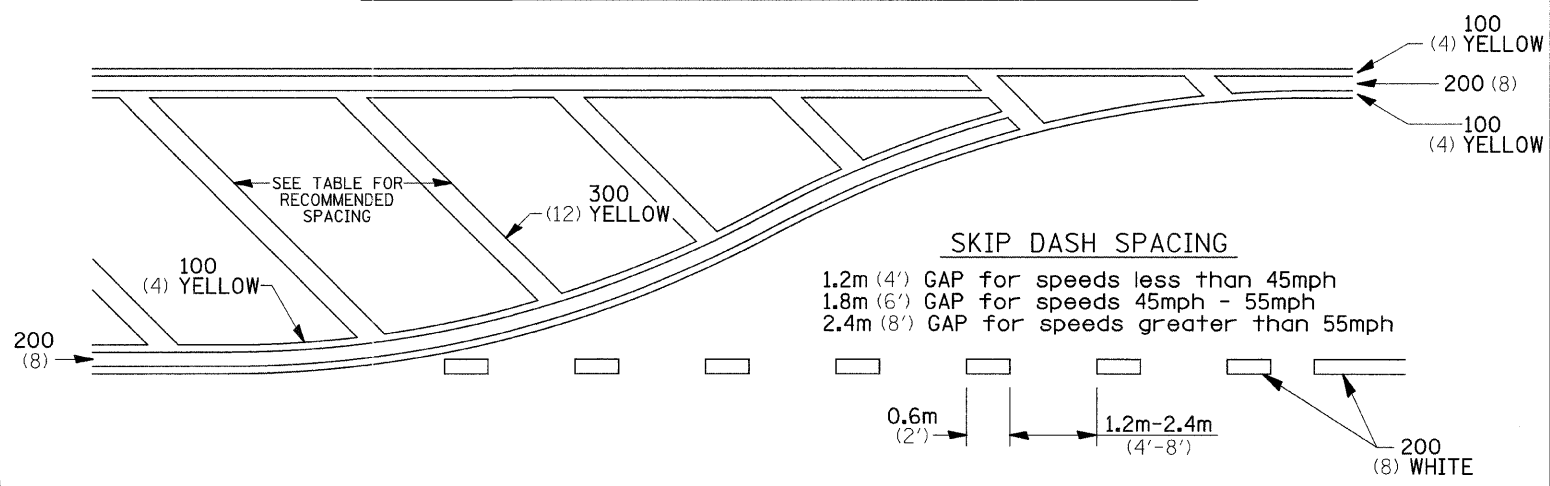
ARROW LAYOUT



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

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

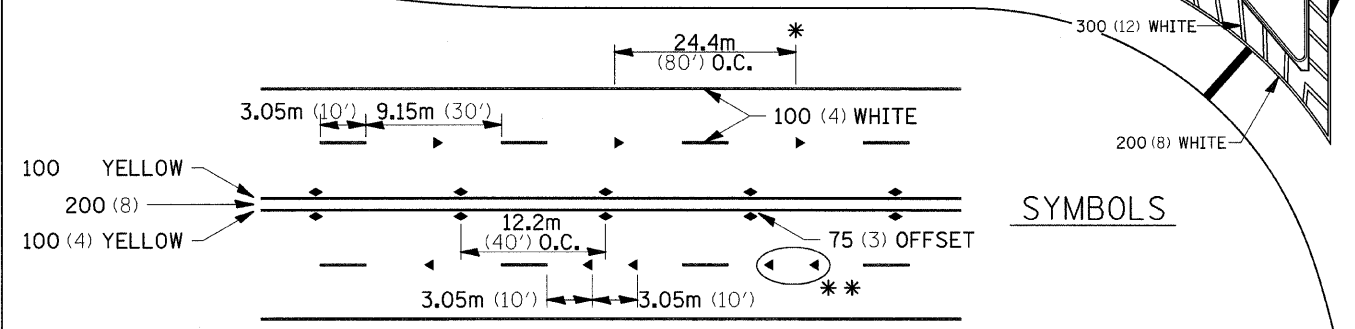
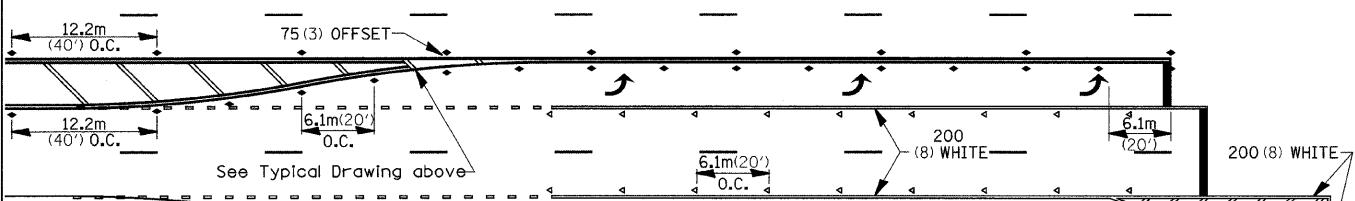
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

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

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

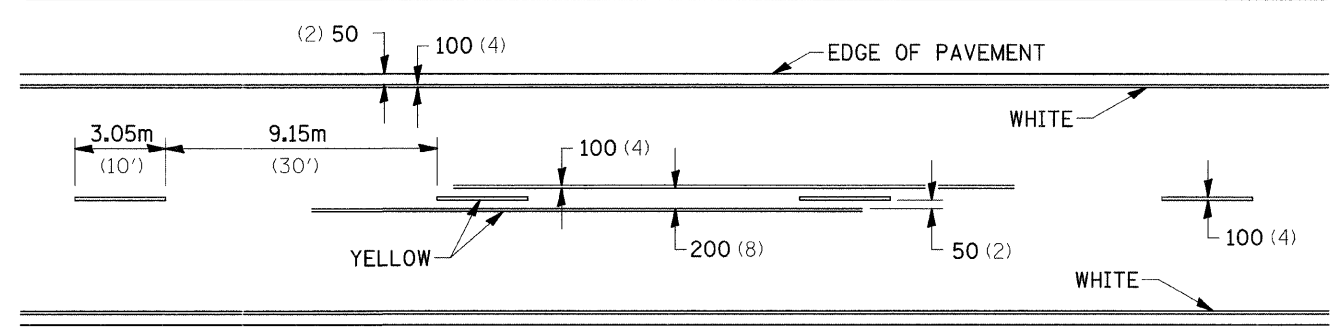


SYMBOLS

- * 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 ≥ 25,000

MULTI-LANE / UNDIVIDED

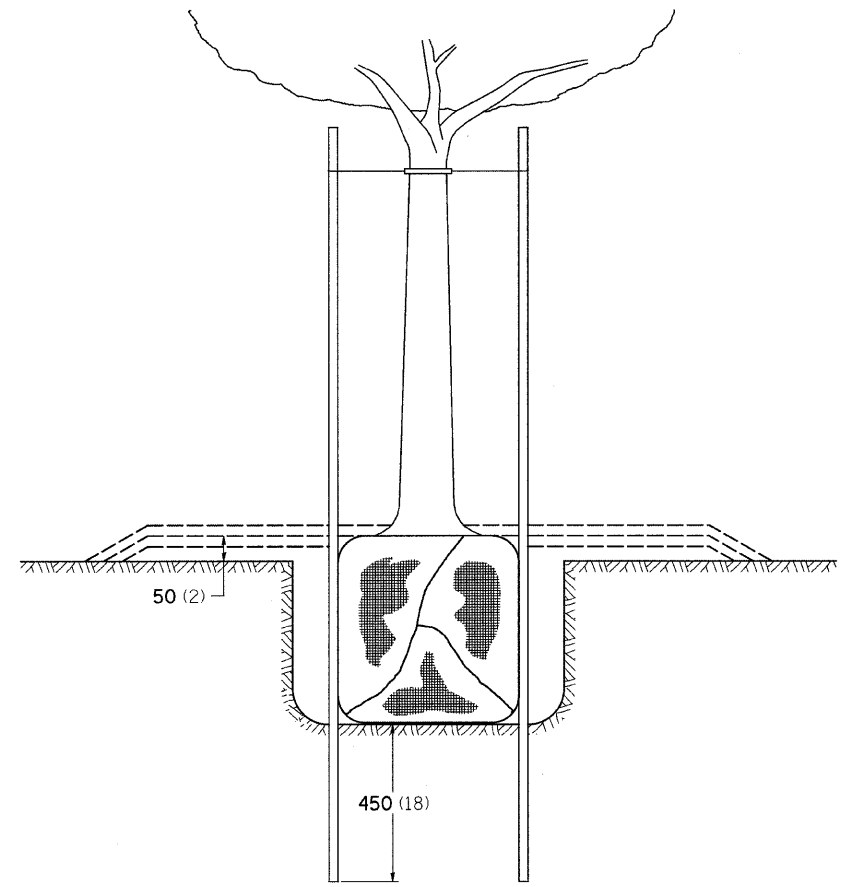
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



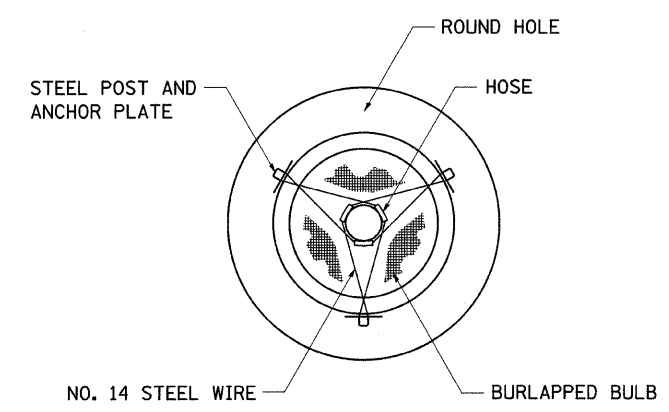
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	60
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES

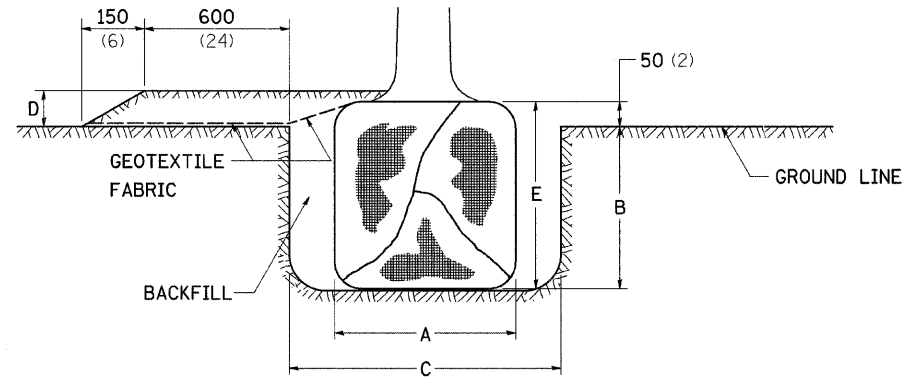


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

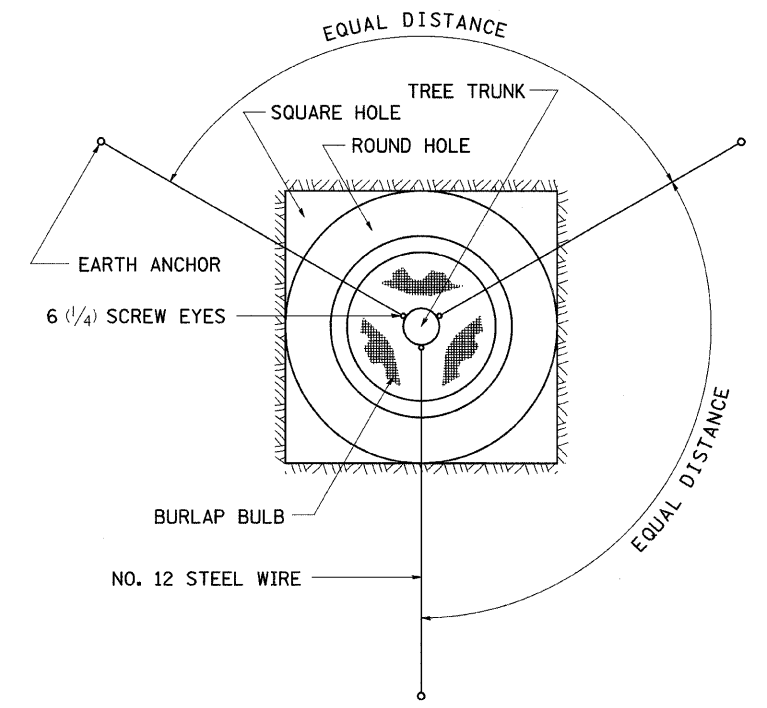


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

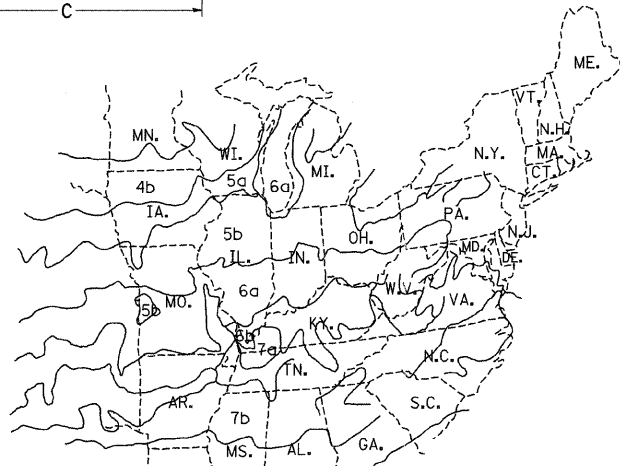
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)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



TREES OVER 115 (4 1/2) IN DIAMETER



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



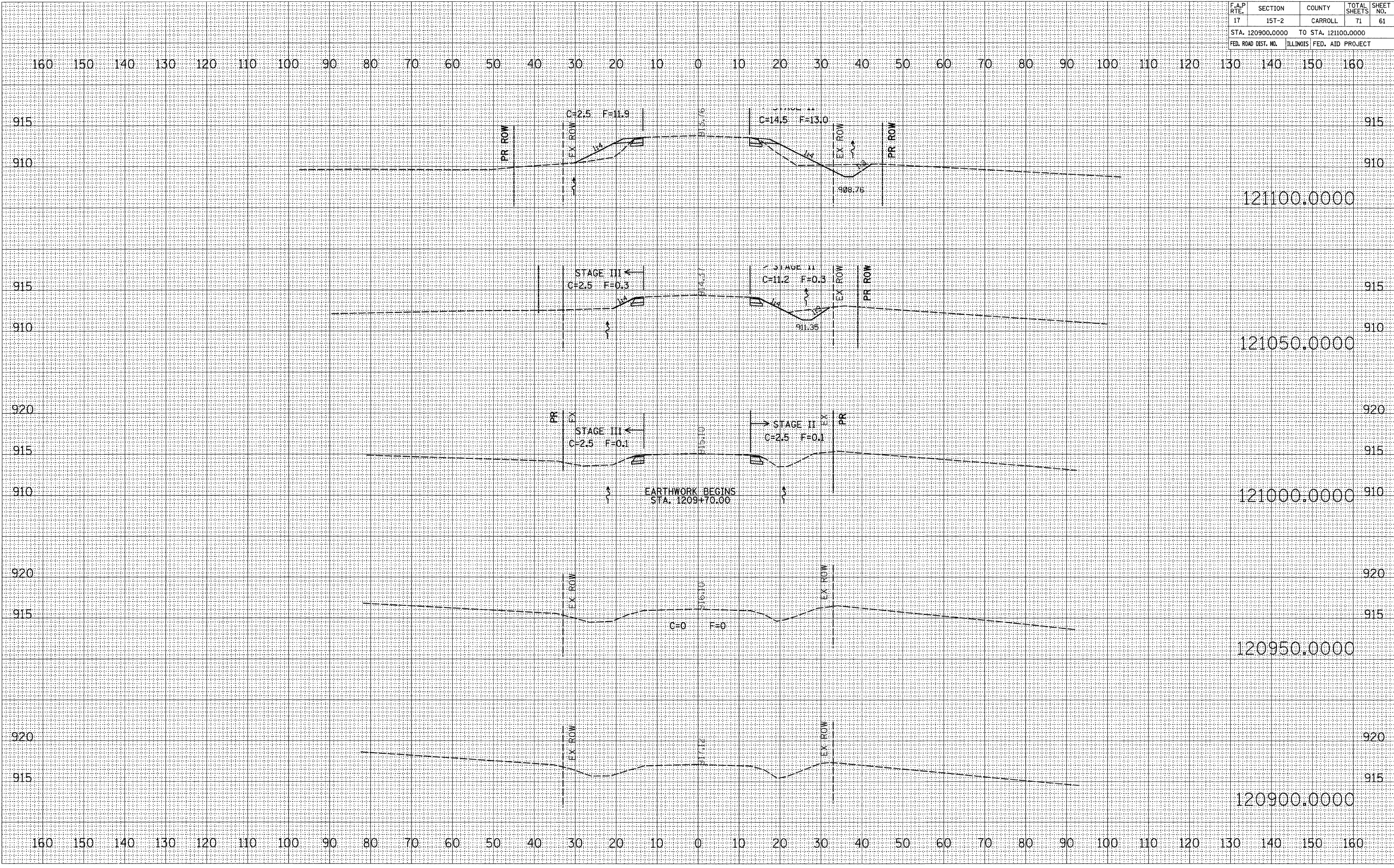
PLANT HARDINESS ZONE MAP
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814

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REFERENCE = #REF#

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 SURVEYED: _____
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 NO. OF BOOKS: _____
 AREAS CHECKED: _____

DATE: _____ BY: _____
 SURVEYED: _____
 PLOTTED: _____
 NO. OF BOOKS: _____
 AREAS CHECKED: _____

DATE: Mon Jan 28 07:42:18 2008
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 USER NAME: hennicke



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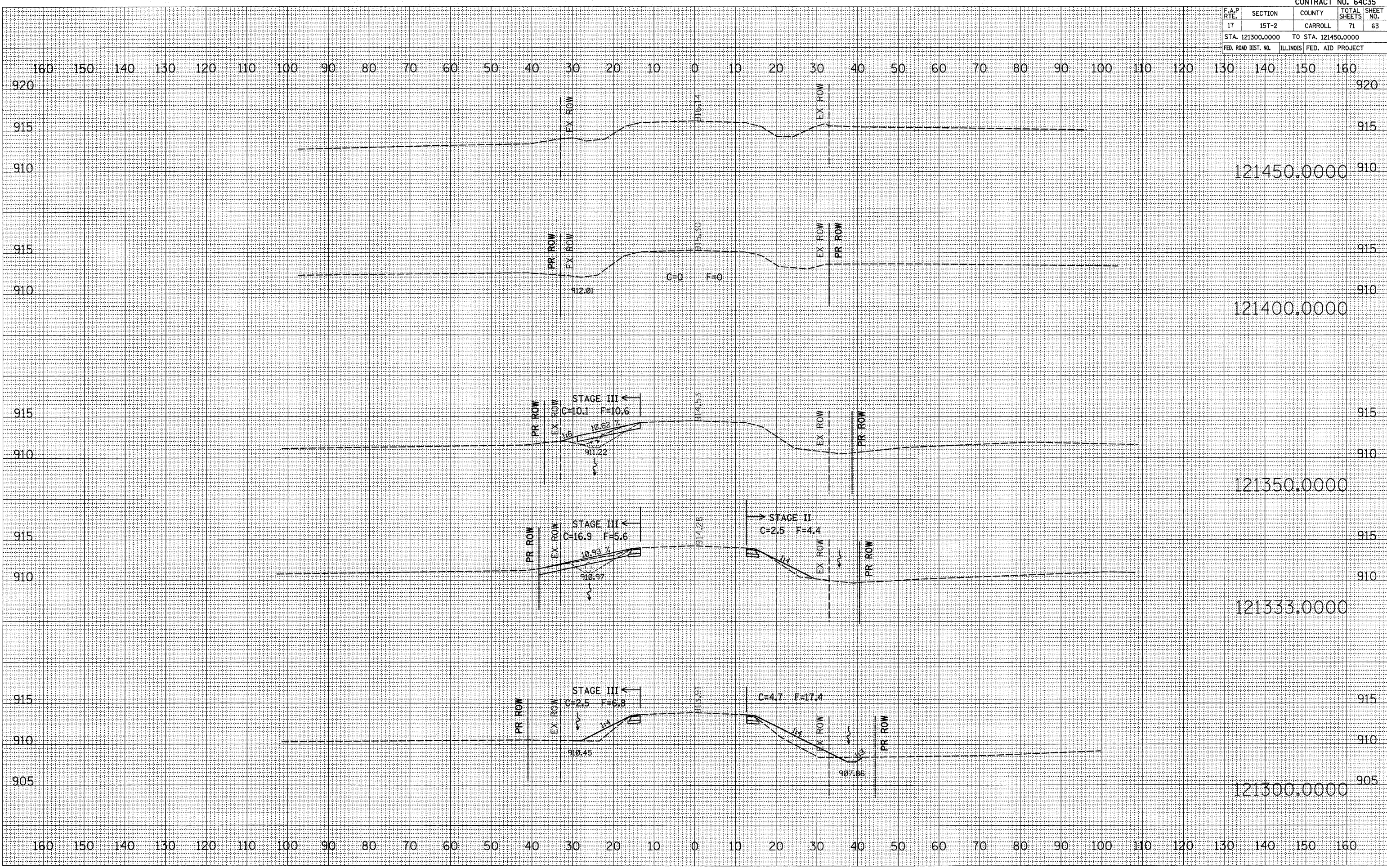
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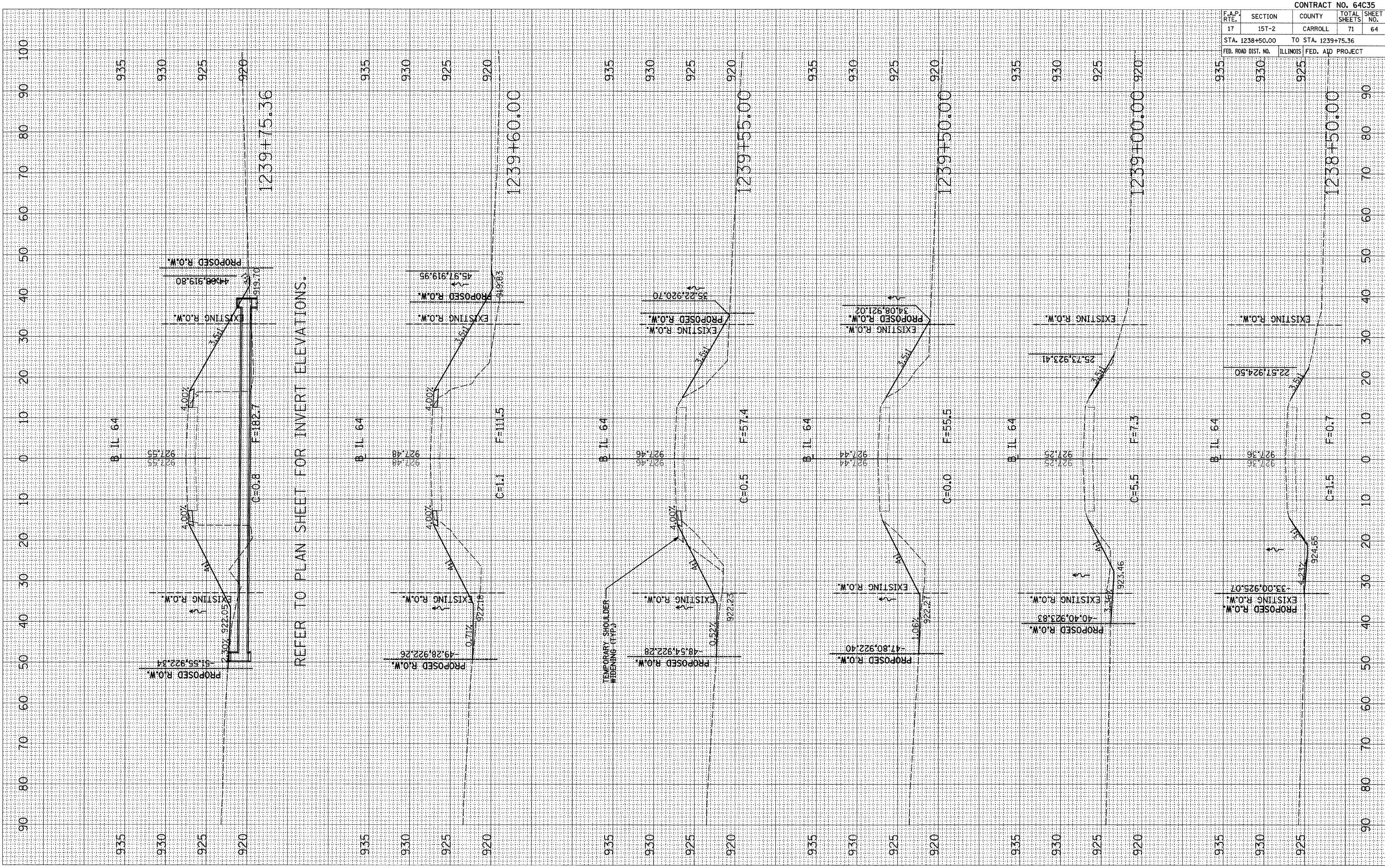
BY _____ DATE _____
 SURVEYED _____
 PLOT _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

BY _____ DATE _____
 SURVEYED _____
 PLOT _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

BY _____ DATE _____
 SURVEYED _____
 PLOT _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



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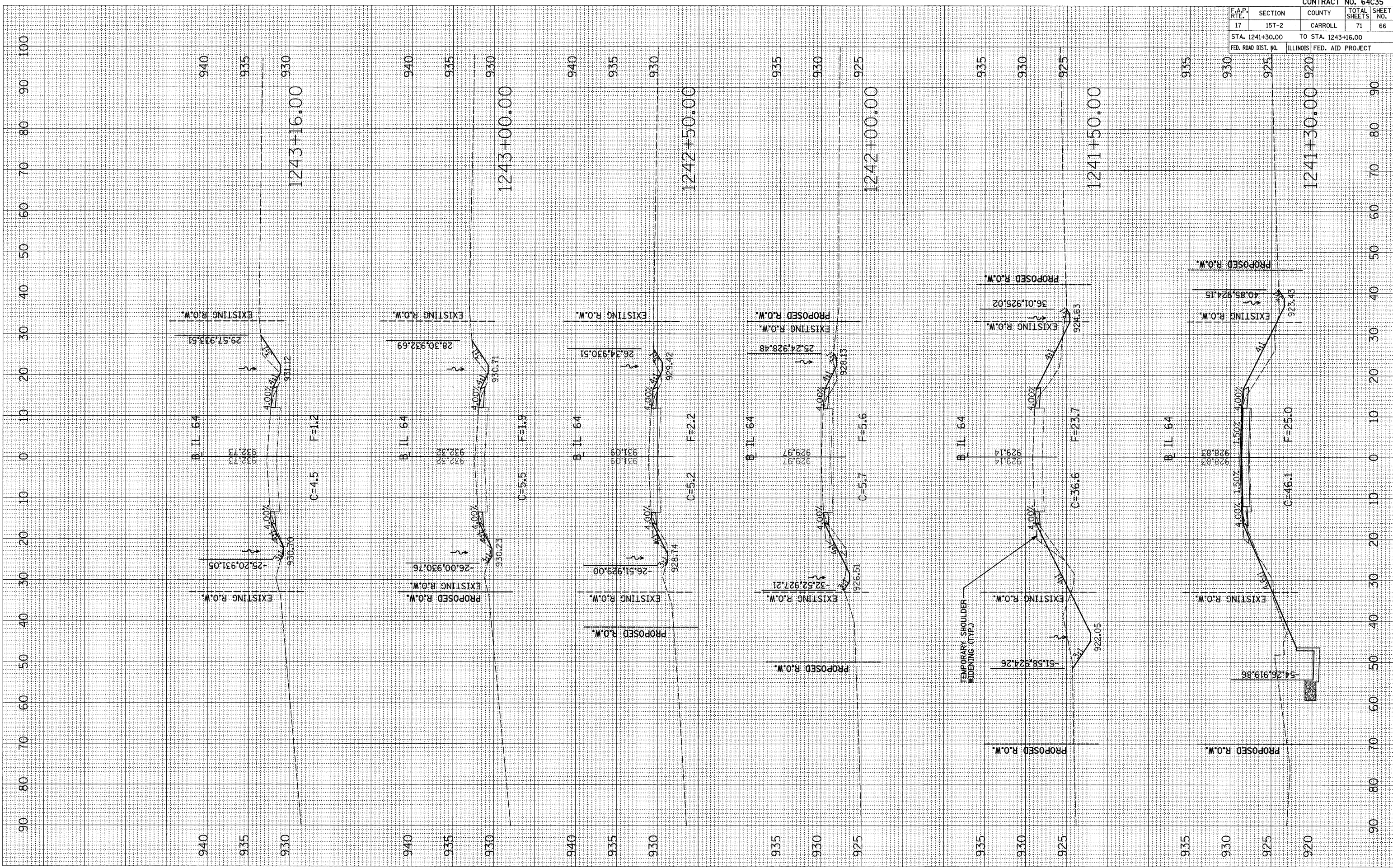
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	64
STA. 1238+50.00		TO STA. 1239+75.36		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PLOT DATE = Mon, Jan 20 07:56:41 2008
 PLOT NAME = Carroll 64C35-IL64-IL
 PLOT SCALE = 10.00000 / IN.
 USER NAME = harscocks

ORIGINAL SURVEY NO. _____
 SURVEYED BY _____
 PLOTTED BY MAURER-STUTZ, INC.
 SURVEY PROJECT C:\Users\maurer\Documents\Z079865\Map\64C35-IL64-IL.dwg
 AREAS CHECKED _____
 DATE _____

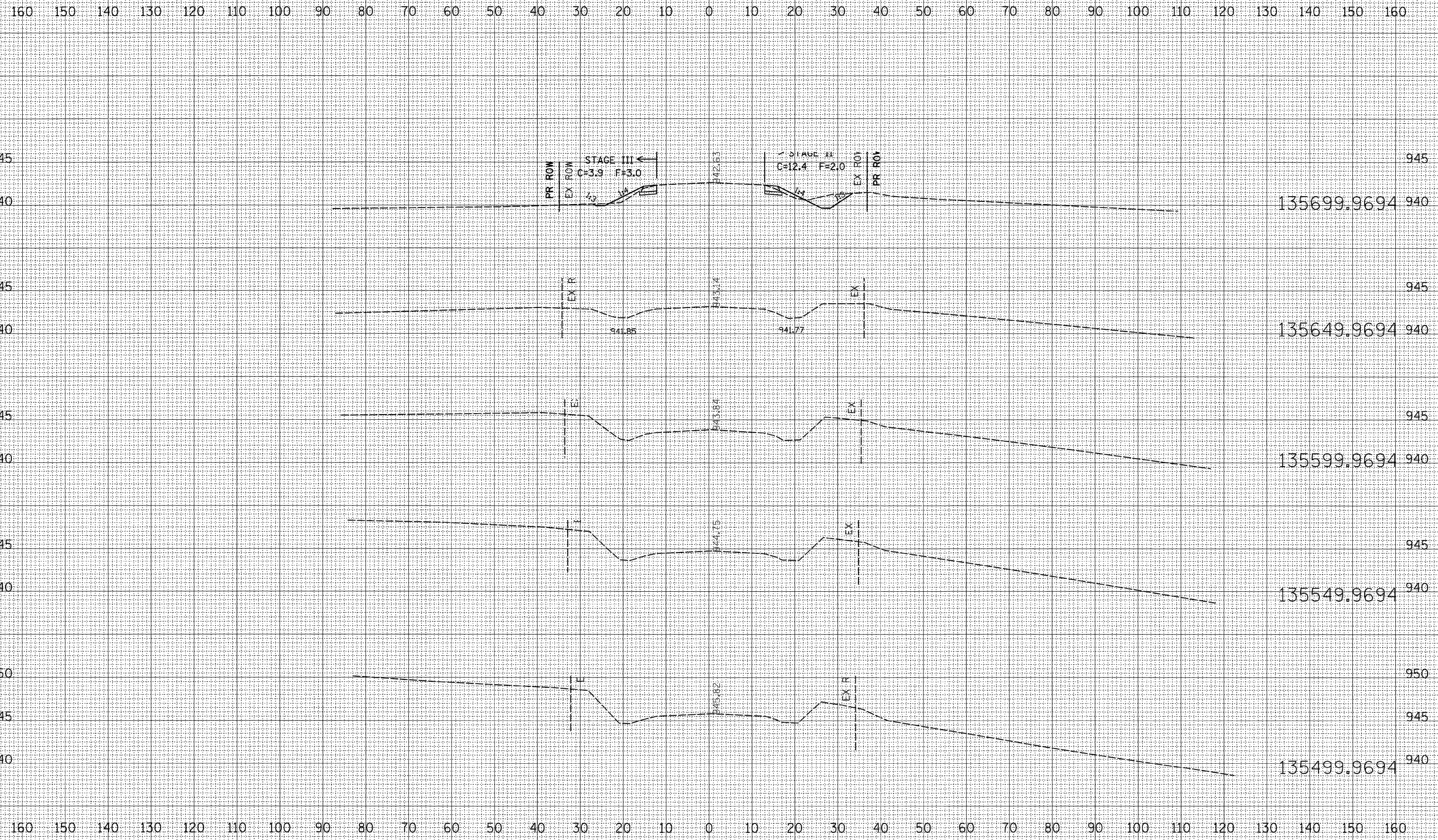
MAURER-STUTZ, INC.
 SURVEYING & ENGINEERING
 1111 N. WASHINGTON ST. / SUITE 200
 CARROLL, ILLINOIS 61714

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



CONTRACT NO. 64C35				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	66
STA. 1241+30.00 TO STA. 1243+16.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	68
STA. 135499.9694		TO STA. 135699.9694		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

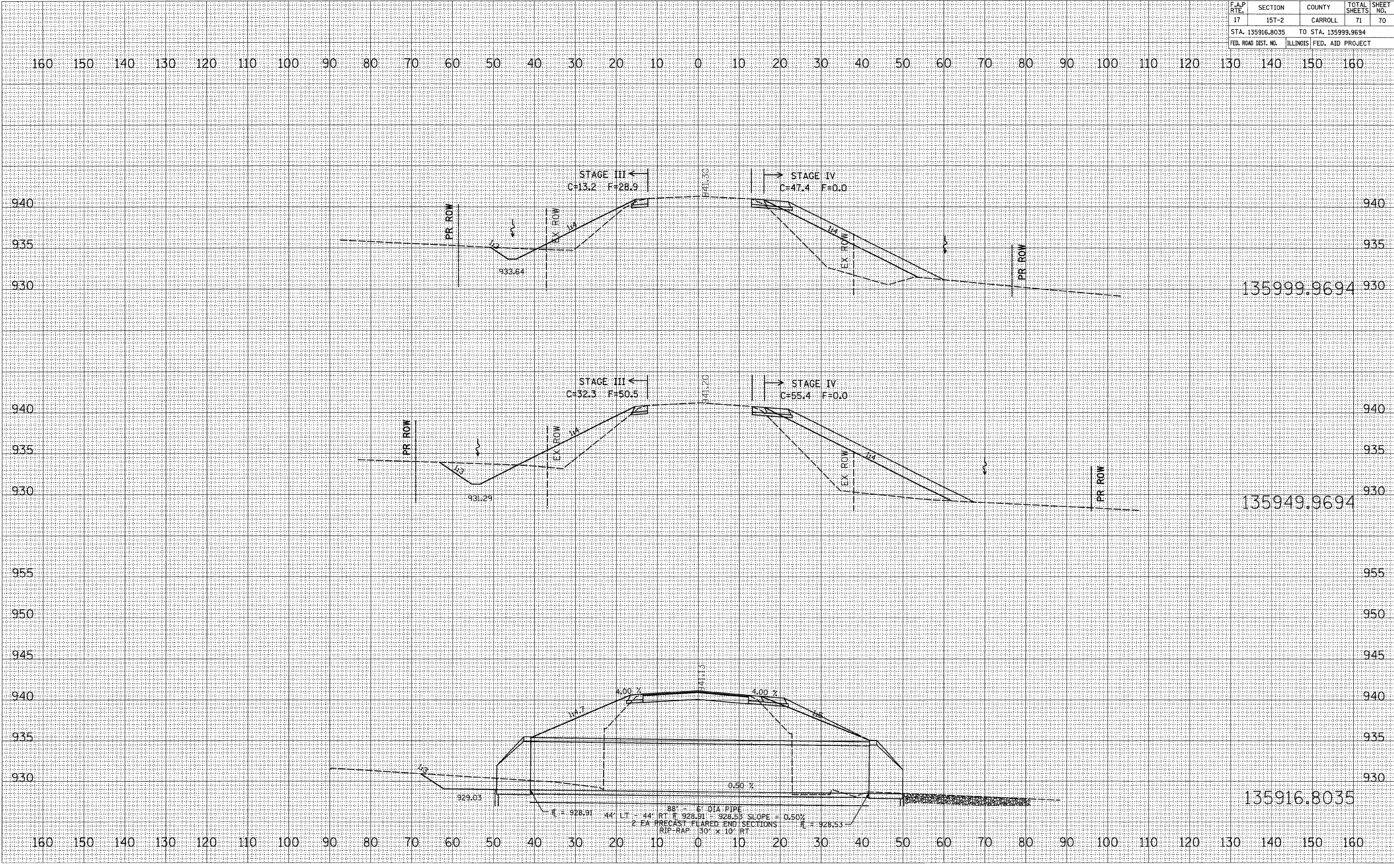
BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

DATE = Mon Jan 28 07:42:18 2008
 FILE NAME = C:\p\2007\15t-2\15t-2.dwg
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = hansonke

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

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

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



PLOT DATE = Mon Jun 28 07:43:17 2008
 FILE NAME = CAP - 15 - 2017086 - 1077086.dwg
 PLOT SCALE = 1/8" = 1' 0"
 USER NAME = hanson

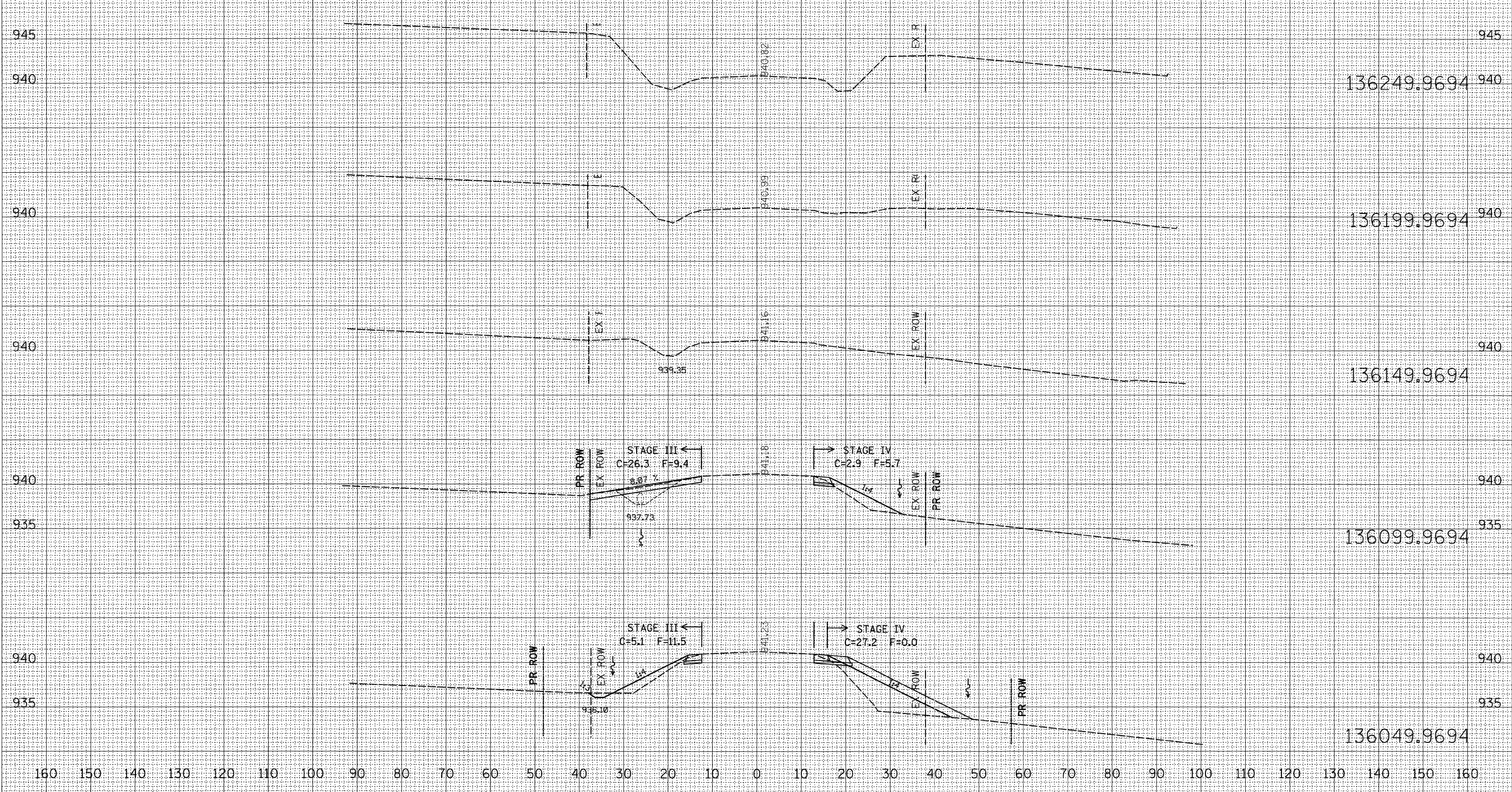
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	71
STA. 136049.9694		TO STA. 136249.9694		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT

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

BY	DATE

BY	DATE

PLOT DATE = Mon Jan 28 07:42:18 2008
 FILE NAME = C:\p3\meva\2077885\077886\meva\107886.dwg
 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = hennicke



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