

SQUAD ENGINEER: SHANNA DOLLINGER (815) 284-5989

PROJECT ENGINEER: BECKY MARRUFFO

CONTRACT NO. 64C70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	1

42

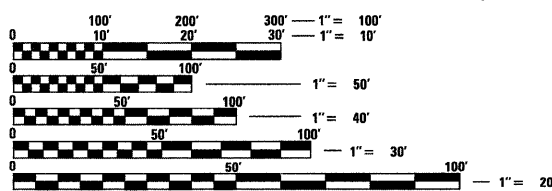
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- 635001 DELINEATORS
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- 701001-01 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 4.5M (15') AWAY
- 701006-02 OFF-RD OPERATIONS, 2L, 2W 4.5M (15') TO 600MM (24") FROM PAVEMENT EDGE
- 701011-01 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS > 45 MPH
- 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATION DAY ONLY
- 701321-09 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
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- 886006 TYPICAL LAYOUT FOR DETECTION LOOPS
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- 001001-01 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH & OF A FOOT

ANDOVER TOWNSHIP SECTION 8, 9



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

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

CONTRACT NO. 64C70

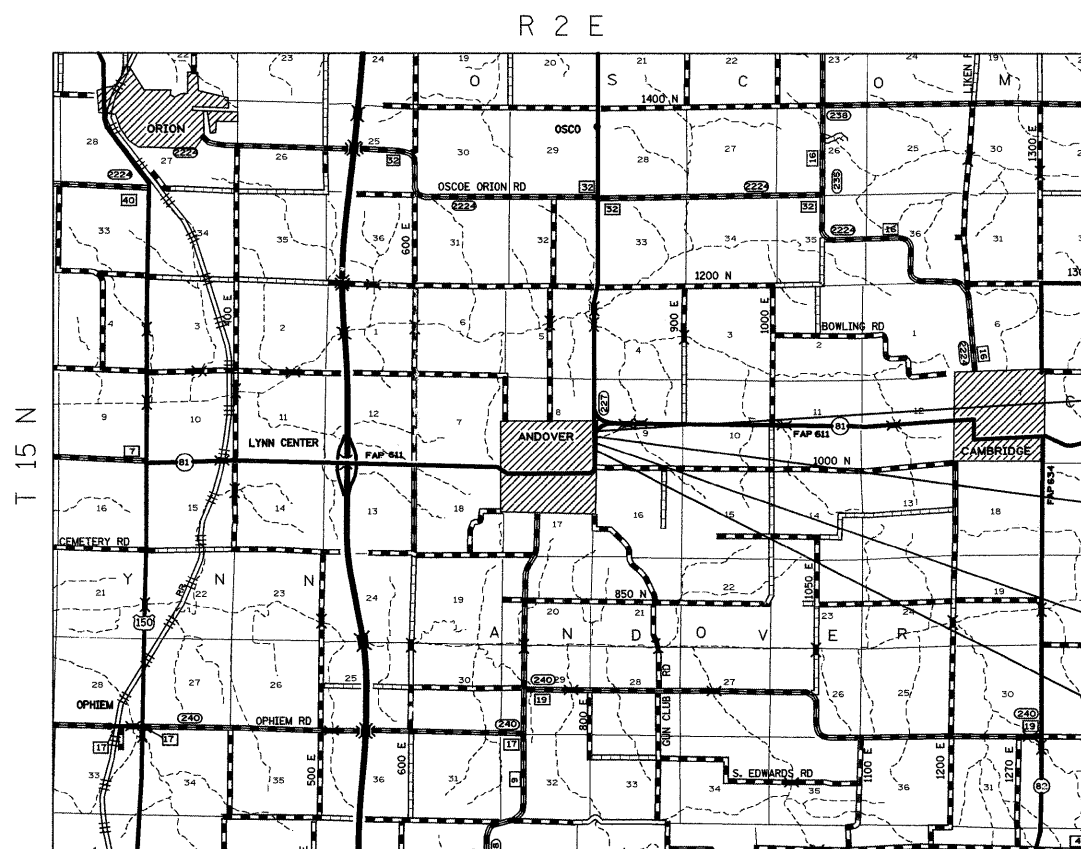
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 611 (IL 81)
SECTION 102T
PROJECT ACF-0611(012)
HENRY COUNTY
C-92-110-07



MAP IS NOT TO SCALE

IMPROVEMENT ENDS
STA 287 + 25

SECTION ENDS
STA 285 + 28.48

SECTION BEGINS
STA 284 + 32.47

IMPROVEMENT BEGINS
STA 281 + 90

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *January 31, 2008*

Shirley F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21, 2008
Eric E. Harman
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

March 21, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

CODE NO	ITEM	UNIT	FEDERAL 80%
			STATE 20% Y007 TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 DIAMETER UNITS)	UNIT	28
20200100	EARTH EXCAVATION	CU YD	326
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	109
20400800	FURNISHED EXCAVATION	CU YD	20
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	100
25100630	EROSION CONTROL BLANKET	SQ YD	131
28000300	TEMPORARY DITCH CHECKS	EACH	13
28000400	PERIMETER EROSION BARRIER	FOOT	819
28000500	INLET AND PIPE PROTECTION	EACH	2
28100107	STONE RIPRAP, CLASS A4	SQ YD	71
28200200	FILTER FABRIC	SQ YD	110.0
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	16
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	46.3
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	115.6
44201421	CLASS C PATCHES, TYPE IV, 15 INCH	SQ YD	162
48101200	AGGREGATE SHOULDERS, TYPE B	TON	22
48203019	HOT-MIX ASPHALT SHOULDERS, 5 1/2"	SQ YD	137
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50800105	REINFORCEMENT BARS	POUND	9,090
50800515	BAR SPLICERS	EACH	34
51205200	TEMPORARY SHEET PILING	SQ FT	619.2
51500100	NAME PLATES	EACH	1
54002010	EXPANSION BOLTS 1/2 INCH	EACH	24
54003000	CONCRETE BOX CULVERTS	CU YD	39.6
5421A036	PIPE CULVERTS, CLASS A, TYPE 1 36" (TEMPORARY)	FOOT	5
54248510	CONCRETE COLLAR	CU YD	3.1
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	2
61139900	STORM SEWERS (SPECIAL) 6"	FOOT	100

CODE NO	ITEM	UNIT	FEDERAL 80%
			STATE 20% Y007 TOTAL QUANTITY
61140000	STORM SEWERS (SPECIAL) 8"	FOOT	100
61140100	STORM SEWERS (SPECIAL) 10"	FOOT	100
63200310	GUARDRAIL REMOVAL	FOOT	626
63500105	DELINEATORS	EACH	2
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	7
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIP	EACH	6
70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	1137
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1784
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	24
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1006.9
70400100	TEMPORARY CONCRETE BARRIER	FOOT	362.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4200
78300100	PAVEMENT MARKING REMOVAL	SQ FT	636
* B2000116	TREE, ACER CAMPESTRIS (HEDGE MAPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	4
X0712400	TEMPORARY PAVEMENT	SQ YD	282.4
X0919000	TEMPORARY PAVEMENT REMOVAL	SQ YD	29.6
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1
Z0005400	BREAKER-RUN CRUSHED STONE	TON	224
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
* Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
* Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2

* SPECIALTY ITEM

FILE NAME = C:\Projects\p211986\dl1986crr.dgn	USER NAME = jordanhd	DESIGNED - _____	REVISOR - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.E. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - _____	REVISOR - _____		SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	611	102T	HENRY	41	2
		CHECKED - _____	REVISOR - _____					CONTRACT NO. 64C70				
		DATE = Feb 08 08:52:39 2008	REVISOR - _____					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 611 (IL 81)	102T	Henry	41	3
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C70				

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.

It is estimated that 20 cubic yards of earth will be hauled to the job from outside the project limits. A shrinkage factor of 25% has been used.

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. This work will be included in the contract unit price per Cubic Meter (Cubic Yard) for EARTH EXCAVATION.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of EARTH EXCAVATION.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the EARTH EXCAVATION.

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

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Level Binder	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 64-22	PG 58-22	PG 58-22
Design Air Voids	4.0 @ N50	4.0 @ N50	3 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5	IL 9.5 or 12.5	BAM
Friction Aggregate	C	N/A	C	N/A
20 Year ESAL	1.1	1.1	N/A	N/A
Mix Unit Weight	112 lbs/sy/in		112 lbs/sy/in	

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.

On full depth pavement, shoulder widths of 1.8 m (6 ft.) or less may be placed, at the Contractor's option, simultaneously with the adjacent traffic lane for both the binder and surface courses, provided the cross slope of both the pavement and shoulder can be satisfactorily obtained. The shoulder will be paid for at the contract unit price per Square Meter (Square Yard) for HOT-MIX ASPHALT SHOULDERS of the thickness specified on the plans.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per metric ton (ton) for LEVELING BINDER (MACHINE METHOD) of the type specified.

The new number for this structure will be 037-1179.

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.

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.

A Precast Box Culvert is not an option on the project due to soil conditions.

1. All Class "C" Patch cuts shall be accomplished with a saw. This work shall be included in the contract unit price per SQUARE YARD for CLASS C PATCH, of the type specified.
2. The existing box culvert shall be cleaned in order to maintain proper drainage during prior to and during construction. This work shall be included in the contract unit price for CONCRETE BOX CULVERTS.
3. It shall be the responsibility of the CONTRACTOR to devise a method of containing embankment around the temporary sheet piling. This work shall be included in the contract unit price per SQUARE FOOT for TEMPORARY SHEET PILING.

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.

- 100 Feet Storm Sewers, (Special) 6"
- 100 Feet Storm Sewers, (Special) 8"
- 100 Feet Storm Sewers, Protected 10"
- 100 Feet Exploration Trench (52") depth
- 2 Each Field Tile Junction Vaults

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.

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 611 (IL 81)	102T	Henry	41	4
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C70				

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: 2 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2.

The Resident Engineer shall determine the location of each Permanent Survey Marker, Type II and submit proposed locations to the Department's Chief of Surveys a minimum of two weeks prior to contractor installation for review and approval by the Department.

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. Alternate planting location can be at FAI 74 (IL 81) interchange. Coordinate location with Resident Engineer and District Landscape Architect.

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.

Work on this project will be in progress at the same time as the IL 82 box culvert removal and replacement project located 1 mile south of IL 81. Work on these projects shall be scheduled to keep interference between all the projects to a minimum. The contractors shall inform each other of progress of the projects and give fair warning to the other contractors when a problem might be encountered.

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:

Cambridge Telephone	Ameren IP
MidAmerican Energy Co.	Frontier/Citizens
Mediacom	

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

Mr. Rocky Atwell
Village of Andover
PO Box 228
529 Mulberry Street
Andover, IL 61233

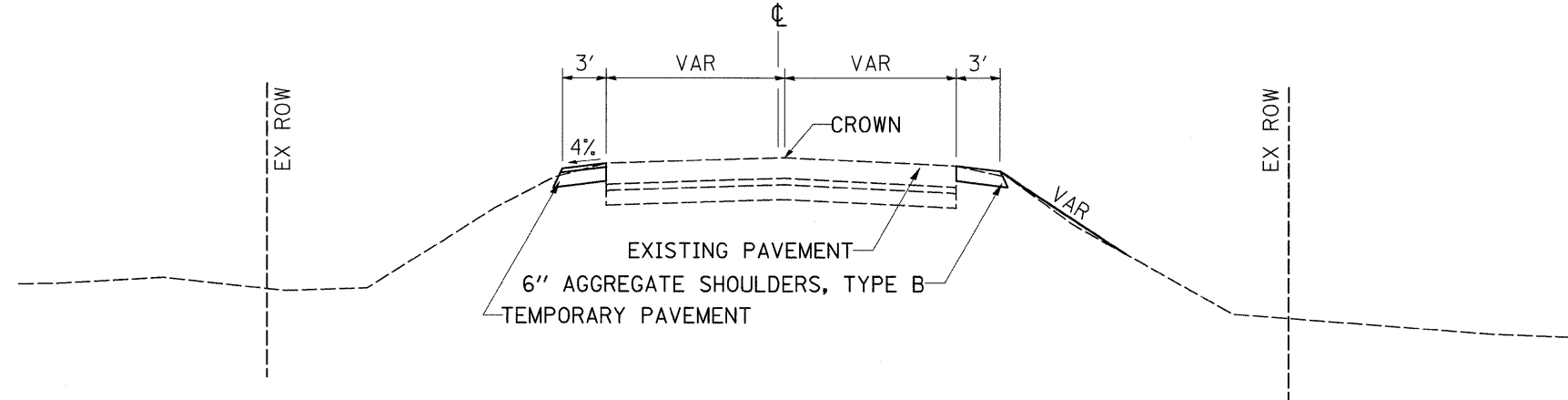
CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any 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.

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

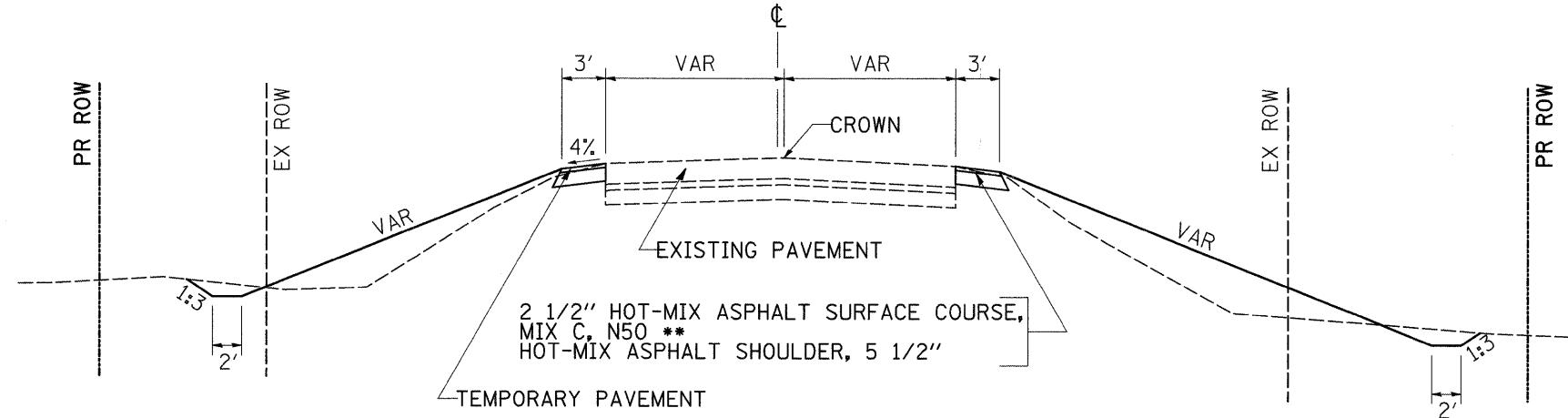
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	5
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

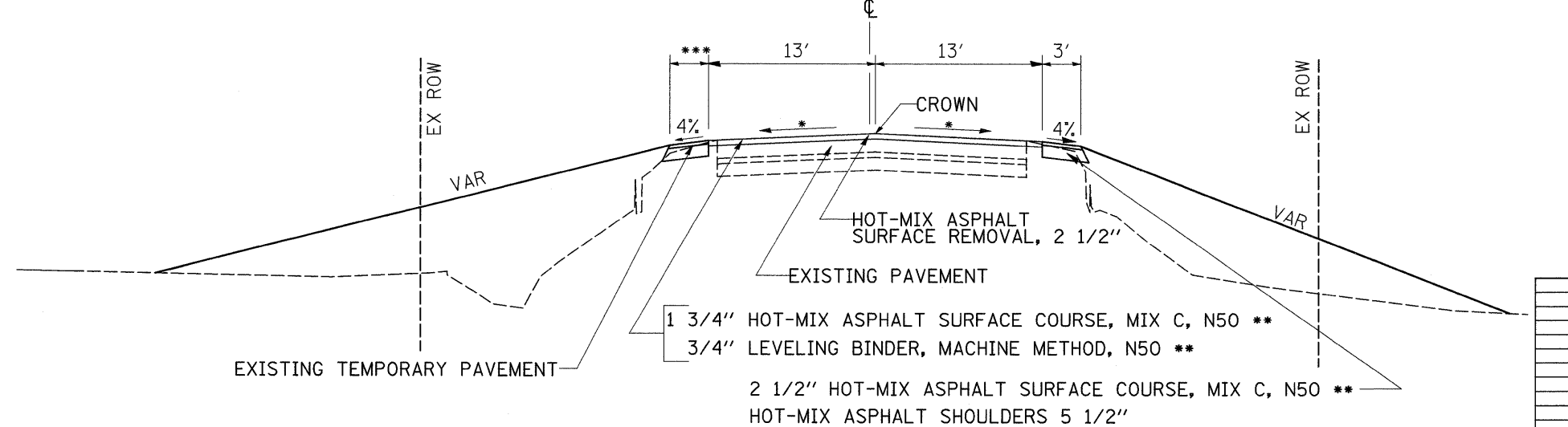
STA 281+90.00 - STA 283+00.00



STA 283+00.00 - STA 284+32.47
STA 285+28.48 - STA 286+50.00



GRIND & RESURFACE
STA 284+32.47 - STA 284+52.47
STA 285+08.47 - STA 285+28.48



- * MATCH EXISTING CROSS SLOPE
- ** 112 LBS/SQ YD/IN
- *** MATCH TEMPORARY PAVEMENT WIDTH

REVISIONS	
NAME	DATE

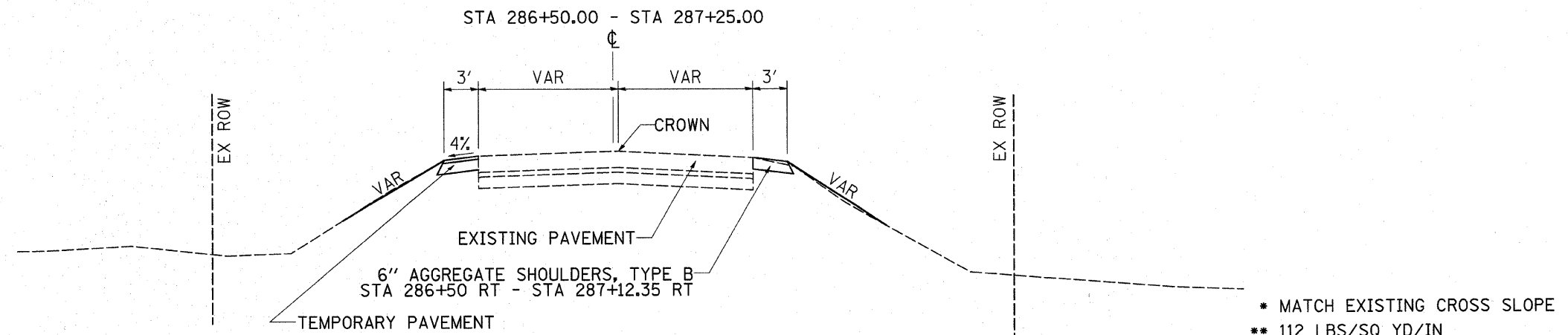
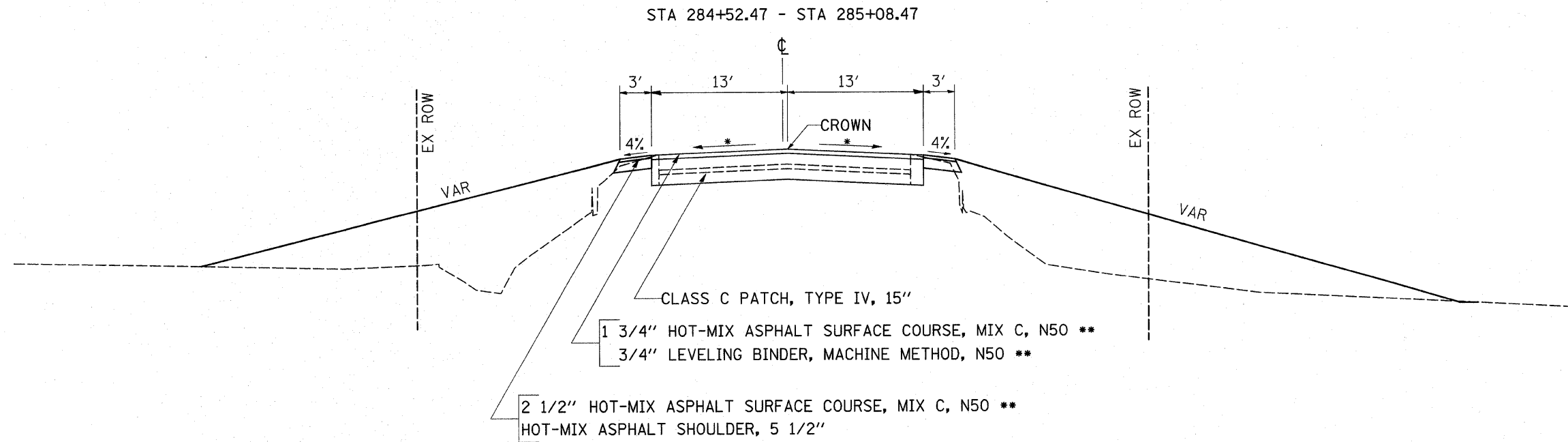
ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____
DATE _____

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CHECKED BY _____

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USER NAME = jordanhd

TYPICAL SECTIONS



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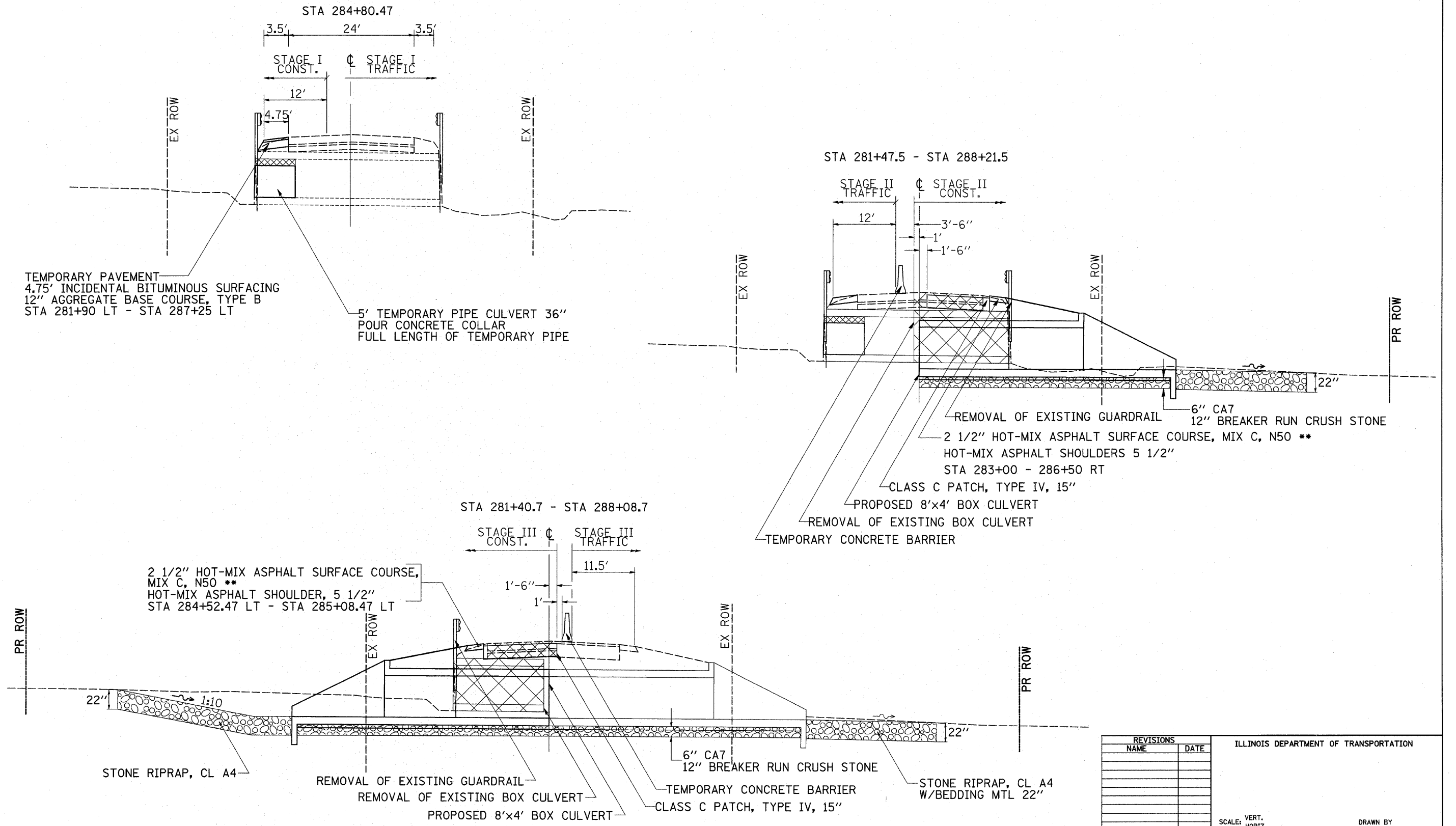
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ. DATE

DRAWN BY
CHECKED BY

TYPICALS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	7
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

STAGING TYPICAL SECTIONS



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 USER NAME = jordanhd

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
HORIZ. _____

DATE _____

DRAWN BY _____
CHECKED BY _____

20100110 Tree Removal (6 to 15 Units Diameter)

Location	Unit
Sta. 284+62 Lt	7
285+24 Lt	6
285+41 Lt	6
285+60 Lt	9
Total =	28

20200100 Earth Excavation

Location	Cu. Yd.
Sta. 281+90.00 to 287+25.00 Lt & Rt	326
Total =	326

20201200 Removal and Disposal of Unsuitable Material

Location	Cu. Yd.
Sta. 284+80.47	109.3
Total =	109

15' wide x 98.34' long x 2' deep

20400800 Furnished Excavation

Location	Cu. Yd.
Sta. 281+90.00 to 287+25.00	20
Total =	20

21301052 Exploration Trench 52" Depth

Location	Foot
Sta. 281+90.00 to 287+25.00	100
Total =	100

25100630 Erosion Control Blanket

Location	Sq. Yd.
Sta. 284+00.00 to 284+80.47 Lt	35
284+00.00 to 284+80.47 Rt	36
284+80.47 to 285+75.00 Lt	41
284+80.47 to 285+25.00 Rt	19
Total =	131

28000300 Temporary Ditch Checks

Location	Each
Sta. 283+00.00 Lt & Rt	2
284+00.00 Lt & Rt	2
284+50.00 Lt & Rt	2
285+00.00 Lt & Rt	2
285+50.00 Lt & Rt	2
286+00.00 Lt	1
286+50.00 Lt & Rt	2
Total =	13

28000400 Perimeter Erosion Barrier

Location	Foot
Sta. 283+40.00 to 287+00.00 Lt	416
282+65.00 to 286+20.00 Rt	403
Total =	819

28000500 Inlet and Pipe Protection

Location	Each
Sta. 284+80.47 Lt	1 Stage I
284+80.47 Lt	1 Stage III
Total =	2

28100107 Stone Riprap, Class A4

Location	Sq. Yd.
Sta. 284+80.60 49' Lt	41 11' x 33'
284+80.60 49' Rt	31 11' x 25'
Total =	71

28200200 Filter Fabric

Location	Sq. Yd.
Sta. 284+80.60 49' Lt	40 11' x 33'
284+80.60 49' Rt	31 11' x 25'
Total =	71

40600625 Leveling Binder (Machine Method), N50

Location	Ton
Sta. 284+32.47 to 285+28.48	16
Total =	16

40603310 Hot-Mix Asphalt Surface Course, Mix "C", N50

Location	Ton
Sta. 283+00.00 to 286+50.00 Rt-Stage 2	16.3 3' Shoulder
284+50.00 to 285+10.00 Lt-Stage 3	2.8 3' Shoulder
284+32.47 to 285+28.48 Stage 2 & 3	27.2 Mainline
Total =	46.3

44000159 Hot-Mix Asphalt Surface Removal, 2 1/2"

Location	Sq. Yd.
Sta. 284+32.47 284+52.47	57.8
285+08.47 285+28.48	57.8
Total =	115.6

44201421 Class C Patches, Type IV, 15"

Location	Sq. Yd.
Sta. 284+52.47 to 285+08.47	162
Total =	162

48101200 Aggregate Shoulders, Type B

Location	Ton
Sta. 281+90.00 to 283+00.00 Rt	13
286+50.00 to 287+12.35 Rt	7
Total =	22

48203019 Hot-Mix Asphalt Shoulders, 5 1/2"

Location	Sq. Yd.
Sta. 284+52.47 to 285+08.47 Lt	20.0 Stage III
283+00.00 to 286+50.00 Rt	116.7 Stage II
Total =	137

50100100 Removal of Existing Structures

Location	Each
Sta. 284+80.47	1
Total =	1

50800105 Reinforcement Bars

Location	Pounds
Sta. 284+80.47	11809
Total =	11809

50800515 Bar Splicers

Location	Each
Sta. 284+80.47	29
Total =	29

51205200 Temporary Sheet Piling

Location	Sq. Ft.
Sta. 284+57.47 to 285+03.47 Lt	619.2
Total =	619.2

51500100 Name Plates

Location	Each
Sta. 284+80.47	1
Total =	1

54003000 Concrete Box Culverts

Location	Sta.	Cu. Yds.
	284+80.47	53.6
Total =		53.6

5421A036 Pipe Culverts, Class A, Type 1 36" (Temporary)

Location	Sta.	Foot	Description
	284+80.47	5	Culvert Extension (Stage I)
Total =		5	

54248510 Concrete Collar

Location	Sta.	Cu. Yd.	Description
	284+80.47	3.1	Culvert Extension (Stage I)
Total =		3.1	

61133100 Field Tile Junction Vaults, 2' Dia.

Location	Sta.	Each	Description
	281+90.00	2	(Contingency)
Total =		2	

61139900 Storm Sewers (Special) 6"

Location	Sta.	Foot	Description
	281+90.00	100	(Contingency)
Total =		100	

61140000 Storm Sewers (Special) 8"

Location	Sta.	Foot	Description
	281+90.00	100	(Contingency)
Total =		100	

61140100 Storm Sewers (Special) 10"

Location	Sta.	Foot	Description
	281+90.00	100	(Contingency)
Total =		100	

63200310 Guardrail Removal

Location	Sta.	Foot
	283+64.70 to 286+77.50 Lt	312
	282+84.30 to 285+96.00 Rt	313
Total =		626

63500105 Delineators

Location	Sta.	Each
	284+80.60	2
Total =		2

66600105 Furnishing and Erecting Right-of-Way Markers

Location	Sta.	Each	Description
	284+00.00	2	35' RT
	284+50.00	1	100' LT
	284+50.00	1	90' RT
	284+80.63	1	100' LT
	285+10.00	1	90' RT
	285+60.00	1	35' RT
Total =		7	

66700305 Permanent Survey Markers, Type II

Location	Sta.	Each	Description
	281+90.00	2	RE & D2 Survey Approve location
Total =		2	

70106700 Temporary Rumble Strips

Location	Sta.	Each
	264+40.70	1
	269+40.70	1
	274+40.70	1
	295+90.50	1
	300+90.50	1
	305+90.50	1
Total =		6

70300220 Temporary Pavement Marking

Location	Sta.	Foot	Description
	281+40.70	164	4" White Edgeline
	283+04.50	53	4" White Edgeline
	283+57.50	246	4" White Edgeline
	286+03.50	150	4" White Edgeline
	287+53.50	141	4" White Edgeline
	281+40.70	167	4" White Edgeline
	286+47.50	216	4" White Edgeline
Total =		1137	

70300520 Pavement Marking Tape, Type III 4"

Location	Sta.	Foot	Description
	281+40.70	18	4" Yellow Edgeline
	281+57.50	200	4" Yellow Edgeline
	283+57.50	246	4" Yellow Edgeline
	286+03.50	125	4" Yellow Edgeline
	287+28.50	100	4" Yellow Edgeline
	281+40.70	60	4" Yellow Edgeline
	282+00.70	158	4" Yellow Edgeline
	283+57.50	246	4" Yellow Edgeline
	286+03.50	57	4" Yellow Edgeline
	286+60.24	234	4" Yellow Edgeline
	283+07.10	51	4" White Edgeline
	283+57.50	246	4" White Edgeline
	286+03.50	44	4" White Edgeline
Total =		1784	

70300570 Pavement Marking Tape, Type III 24"

Location	Sta.	Foot	Description
	281+40.70	12	Solid White
	288+90.50	12	Solid White
Total =		24	

70301000 Work Zone Pavement Marking Removal

Location	Sta.	Sq. Ft.	Description
	281+40.70	54.1	4" White Edgeline
	283+04.50	17.5	4" White Edgeline
	283+57.50	81.2	4" White Edgeline
	286+03.50	49.5	4" White Edgeline
	287+53.50	46.5	4" White Edgeline
	281+40.70	55.1	4" White Edgeline
	286+47.50	71.3	4" White Edgeline
	281+40.70	5.9	4" Yellow Edgeline
	281+57.50	66.0	4" Yellow Edgeline
	283+57.50	81.2	4" Yellow Edgeline
	286+03.50	41.3	4" Yellow Edgeline
	287+28.50	32.8	4" Yellow Edgeline
	281+40.70	19.8	4" Yellow Edgeline
	282+00.70	52.0	4" Yellow Edgeline
	283+57.50	81.2	4" Yellow Edgeline
	286+03.50	17.8	4" Yellow Edgeline
	286+60.24	77.3	4" Yellow Edgeline
	283+07.10	16.8	4" White Edgeline
	283+57.50	77.3	4" White Edgeline
	286+03.50	14.5	4" White Edgeline
	281+40.70	24.0	Solid White Stop Bar
	288+90.50	24.0	Solid White Stop Bar
Total =		1006.9	

70400100 Temporary Concrete Barrier

Location			
Sta.	Sta.		Foot
282+74.50	to 286+36.50	Stage II	
			Total = $\frac{362.5}{362.5}$

70400200 Relocate Temporary Concrete Barrier

Location			
Sta.	Sta.		Foot
283+24.00	to 286+75.00	Stage III	
			Total = $\frac{350}{350}$

78001110 Paint Pavement Marking -- Line 4"

Location			
Sta.	Sta.		Foot
281+90.00	to 288+90.50	Lt & Rt	1400 2 Coats White Edgeline
281+90.00	to 288+90.50	CL	2800 2 Coats Solid Dbl Yellow
			Total = $\frac{4200}{4200}$

78300100 Pavement Marking Removal

Location			
Sta.	Sta.		Sq. Ft.
283+00.00	to 287+25.00	Lt	141.7 LT Edgeline
281+75.00	to 284+32.47	Cl	171.7 Solid Dbl Yellow
285+28.48	to 02+88.00	Cl	206.0 Solid Dbl Yellow
283+00.00	to 286+50.00	Rt	116.7 RT Edgeline
			Total = $\frac{636.0}{636.0}$

X0712400 Temporary Pavement

Location			
Sta.	Sta.		Sq. Yd.
281+90.00	to 287+25.00	Lt	282.4 Stage I
			Total = $\frac{282.4}{282.4}$

X0919000 Temporary Pavement Removal

Location			
Sta.	Sta.		Sq. Yd.
284+52.47	to 285+08.47	Lt	50.7 Stage III
			Total = $\frac{50.7}{50.7}$

Z0005400 Breaker-Run Crushed Stone

Location			
Sta.			Ton
284+80.47			224 15' wide x 98.34' long x 2' deep
			Total = $\frac{224}{224}$

Z0030250 Impact Attenuators, Temporary (Non-Redirective), Test Level 3

Location			
Sta.	Sta.		Each
282+72.50			1 Stage II (45 mph Array)
286+38.50			1 Stage II (45 mph Array)
			Total = $\frac{2}{2}$

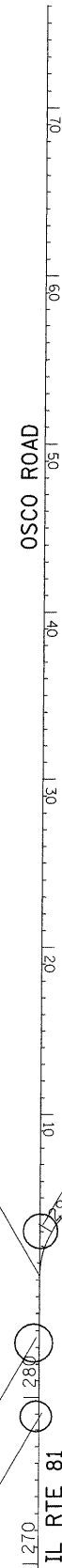
Z0030350 Impact Attenuators, Relocate (Non-Redirective), Test Level 3

Location			
Sta.			Each
283+22.00			1 Stage II (45 mph Array) to Stage III
286+77.00			1 Stage II (45 mph Array) to Stage III
			Total = $\frac{2}{2}$

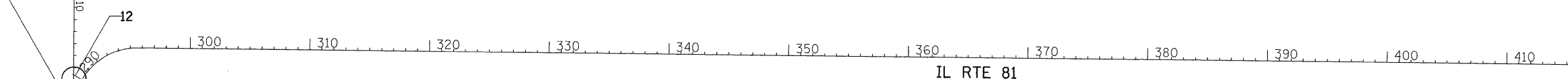
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		DRAWN -	REVISIONS -		611	102T	HENRY	41	10			
		CHECKED -	REVISIONS -		SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				
		DATE -	REVISIONS -					CONTRACT NO. 64C70				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

HORIZONTAL AND VERTICAL CONTROL



STA 287+23.2000
(EXISTING IL RTE 81 C)=
STA 0+34.6340
(EXISTING OSCO RD)



Chain IL81 contains:
7 CUR 200 11

Beginning chain IL81 description

Point 7 N 1,685,894.7782 E 2,265,111.7806 Sta 269+10.4293
Course from 7 to PC 200 0° 20' 09.3633" Dist 1,812.7707'

Curve Data

Curve 200
P.I. Station 292+58.8904 N 1,688,243.1989 E 2,265,125.5499
Delta = 90° 17' 15.8685" (RT)
Degree = 10° 44' 58.3388"
Tangent = 535.6904'
Length = 839.9220'
Radius = 533.0069'
External = 222.6786'
Long Chord = 755.6759'
Mid. Ord. = 157.0617'
P.C. Station 287+23.2000 N 1,687,707.5177 E 2,265,122.4091
P.T. Station 295+63.1220 N 1,688,237.3679 E 2,265,661.2086
C.C. N 1,687,704.3926 E 2,265,655.4068

Course from PT 200 to 11 90° 37' 25.2318" Dist 11,960.9548'
Point 11 N 1,688,107.1732 E 2,277,621.4548 Sta 415+24.0768

Ending chain IL81 description

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
IL81	200	200	201	202	203

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

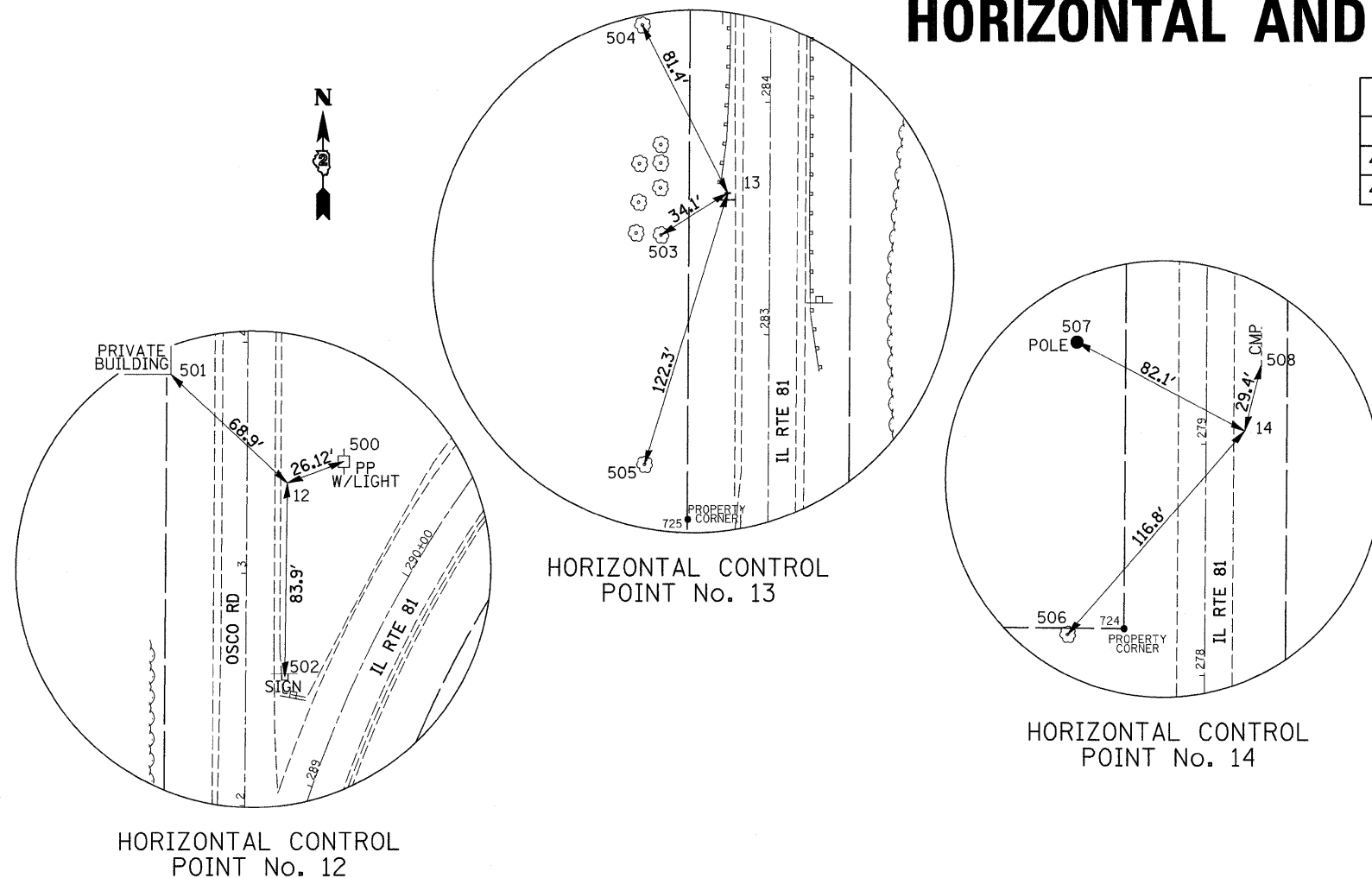
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DATE: HORIZ.

DRAWN BY
CHECKED BY

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USER NAME = jordanhd

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.611	102T	HENRY	41	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

HORIZONTAL AND VERTICAL CONTROL



POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	1688215.2773	2265108.7812	776.9637	IL81	291+20.6902	215.1928' LT	R.O.W. MARKER
400	1688215.2773	2265108.7812	776.9637	OSCORD	5+42.3050	16.6047' LT	R.O.W. MARKER

POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	IL81	290+26.4005	49.9663' LT	POWER POLE WITH LIGHT, PHYSICAL TIES
500	OSCORD	3+48.6600	41.8394' RT	POWER POLE WITH LIGHT, PHYSICAL TIES
501	IL81	290+19.1598	133.3844' LT	PRIVATE BUILDING, PHYSICAL TIES
501	OSCORD	3+85.9343	33.2664' LT	PRIVATE BUILDING, PHYSICAL TIES
502	IL81	289+38.6310	28.2993' LT	SIGN, PHYSICAL TIES
502	OSCORD	2+55.3763	16.9279' RT	SIGN, PHYSICAL TIES
503	IL81	283+42.6065	47.1044' LT	TREE DECIDUOUS, PHYSICAL TIES
504	IL81	284+32.9949	55.6705' LT	TREE DECIDUOUS, PHYSICAL TIES
505	IL81	282+43.6105	53.6481' LT	TREE DECIDUOUS, PHYSICAL TIES
506	IL81	278+17.2942	59.4307' LT	TREE DECIDUOUS, PHYSICAL TIES
507	IL81	279+43.7387	56.143' LT	POLE, PHYSICAL TIES
508	IL81	279+34.4610	23.7638' RT	CMP, PHYSICAL TIES
510	OSCORD	5+34.4783	25.5092' LT	REFERENCE CORNER
511	OSCORD	6+21.4184	28.483' LT	REFERENCE CORNER
512	OSCORD	6+17.6497	32.8182' RT	REFERENCE CORNER
513	OSCORD	5+49.4482	31.568' RT	REFERENCE CORNER
514	IL81	343+68.2984	34.4847' RT	REFERENCE CORNER
515	IL81	343+10.4818	34.5581' RT	REFERENCE CORNER
516	IL81	343+01.3541	28.1133' LT	REFERENCE CORNER
517	IL81	343+68.5672	38.1115' LT	REFERENCE CORNER

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
12	1688012.0790	2265141.6470	769.4300	IL81	290+07.6875	65.8421' LT	GPS CONTROL POINT
12	1688012.0790	2265141.6470	769.4300	OSCORD	3+39.3029	17.4519' RT	GPS CONTROL POINT
13	1687345.1470	2265102.0270	753.9900	IL81	283+60.7160	18.2571' LT	GPS CONTROL POINT
14	1686890.1310	2265134.3640	764.7500	IL81	279+05.8974	16.7471' RT	GPS CONTROL POINT

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
724	1686804.5500	2265082.2030	767.5830	IL81	278+20.0120	34.9112' LT	PROPERTY CORNER
725	1687204.3890	2265084.7290	758.0880	IL81	282+19.8590	34.7295' LT	PROPERTY CORNER
726	1687468.4520	2264875.9110	752.5060	IL81	284+82.6931	245.0922' LT	PROPERTY CORNER
727	1687468.6880	2264846.0110	752.6670	IL81	284+82.7538	274.9931' LT	PROPERTY CORNER
728	1687469.9720	2264651.0900	759.4500	IL81	284+82.8949	469.9182' LT	PROPERTY CORNER
729	1687471.7460	2264457.3020	766.9440	IL81	284+83.5327	663.7133' LT	PROPERTY CORNER
730	1686809.7090	2264450.2900	762.0150	IL81	278+21.4660	666.8436' LT	PROPERTY CORNER
731	1686808.2490	2264647.5080	763.8050	IL81	278+21.1623	469.6204' LT	PROPERTY CORNER
734	1688250.3793	2265126.8812	0.0000	IL81	291+47.3582	226.8884' LT	SECTION CORNER
734	1688250.3793	2265126.8812	0.0000	OSCORD	5+77.5125	1.2891' RT	SECTION CORNER
735	1688180.2914	2270434.0065	0.0000	IL81	343+36.2584	5.1213' RT	SECTION CORNER

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1687502.9000	2265186.1790	748.1900	IL81	285+18.9597	64.9685' RT	SURVEY WORK POINT
101	1687487.1220	2265069.4840	749.3200	IL81	285+02.4977	51.632' LT	SURVEY WORK POINT
102	1687510.5050	2264827.7250	751.3740	IL81	285+24.4629	293.5239' LT	SURVEY WORK POINT
103	1687668.5890	2265103.6880	758.7290	IL81	286+84.1622	18.4925' LT	SURVEY WORK POINT
104	1688278.3260	2267268.7730	735.6530	IL81	311+70.1453	58.454' LT	SURVEY WORK POINT
105	1688147.8460	2267278.6230	734.9530	IL81	311+81.4150	71.9111' RT	SURVEY WORK POINT
106	1688201.6630	2267040.3350	740.9820	IL81	309+42.5553	20.691' RT	SURVEY WORK POINT
109	1686797.7100	2264866.2370	772.7590	IL81	278+11.9059	250.8334' LT	SURVEY WORK POINT
110	1686797.4210	2264871.9250	772.7300	IL81	278+11.6503	245.1438' LT	SURVEY WORK POINT
111	1687014.8160	2265064.1230	767.2070	IL81	280+30.1684	54.2237' LT	SURVEY WORK POINT
112	1687003.9930	2265080.7030	766.1870	IL81	280+19.4428	37.5805' LT	SURVEY WORK POINT

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

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 USER NAME = jrd-danhd

STAGE 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
.611	102T	HENRY	41	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TEMPORARY PAVEMENT
STA 281+90 - STA 287+25
4.75' WIDE

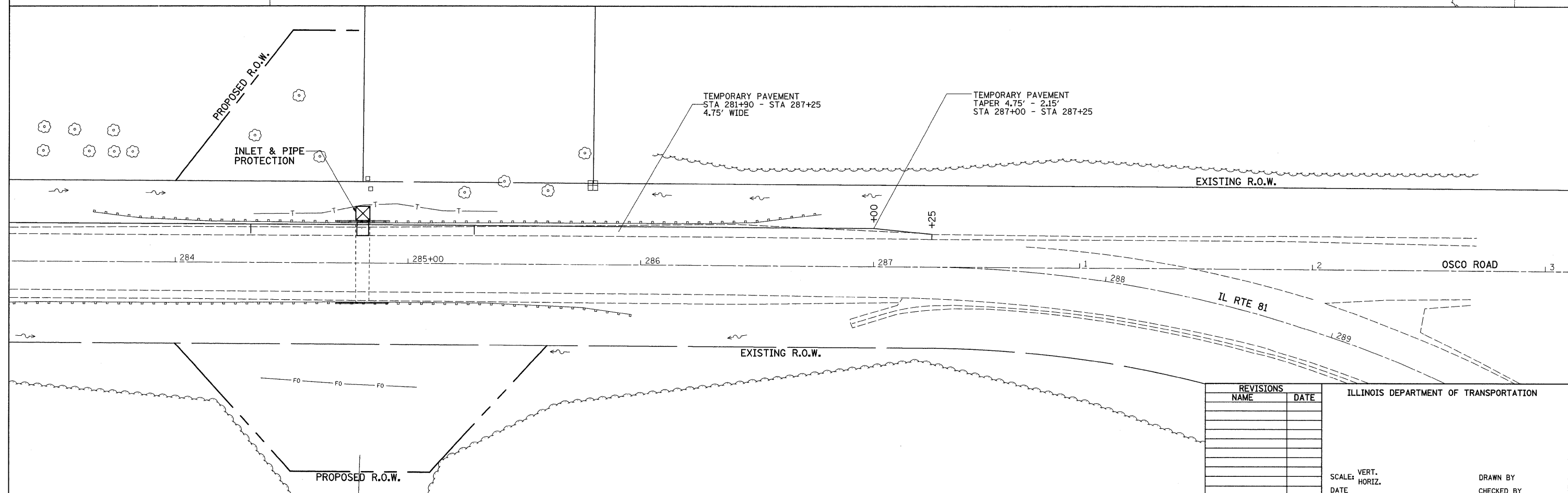
PROPOSED R.O.W.

INLET & PIPE PROTECTION

INSTALL 5' PIPE CULVERT W/ CONCRETE COLLAR

LEGEND	
	= WORK AREA
	= SIGN
	= TYPE III BARRICADE
	= DRUM WITH STEADY BURNING LIGHT
	= DOUBLE VERTICAL PANEL
	= TYPE C BIDIRECTIONAL REFLECTOR
	= STEADY BURNING LIGHTS & DOUBLE VERTICAL PANELS
	= TRAFFIC SIGNAL
	= INDUCTION LOOP DETECTOR
	= IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

SEE STANDARD 701301
FOR SIGNING DURING THIS STAGE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. / HORIZ. / DATE

DRAWN BY / CHECKED BY

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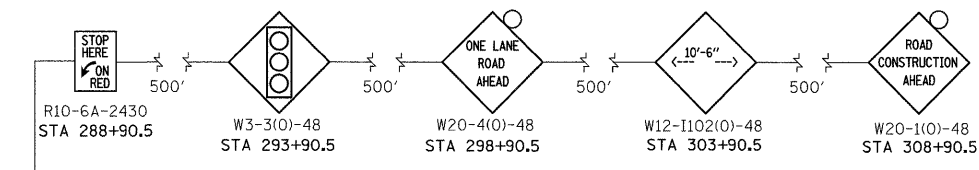
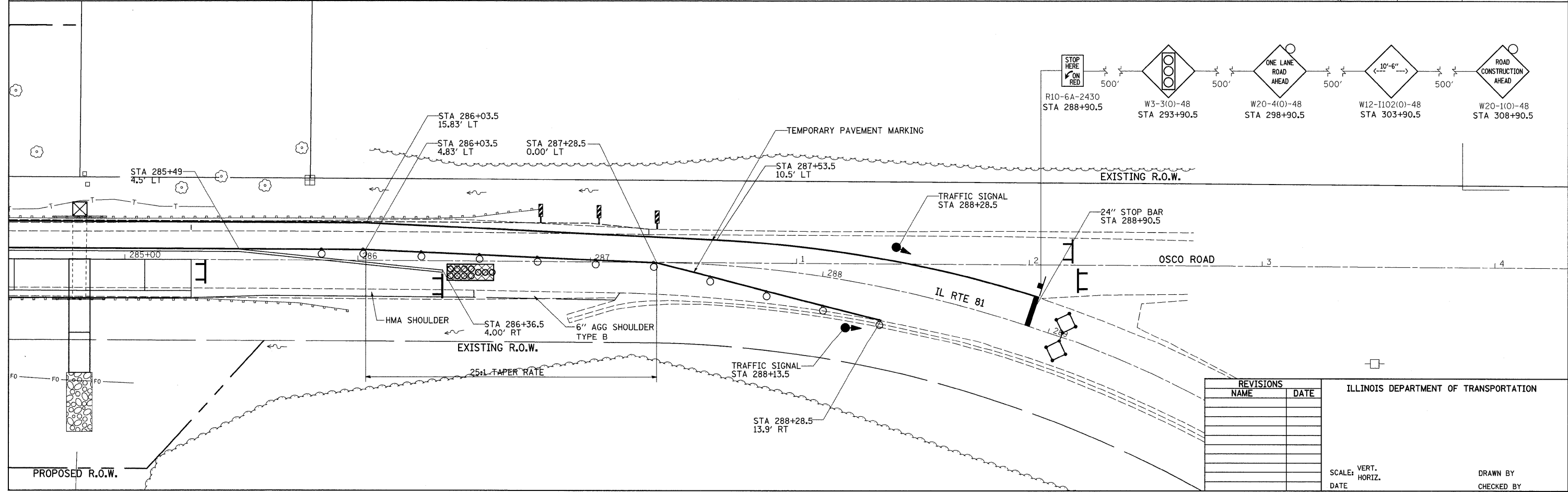
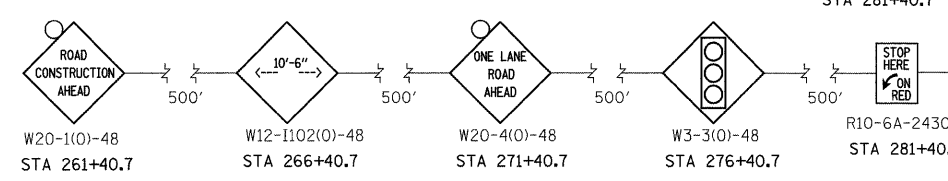
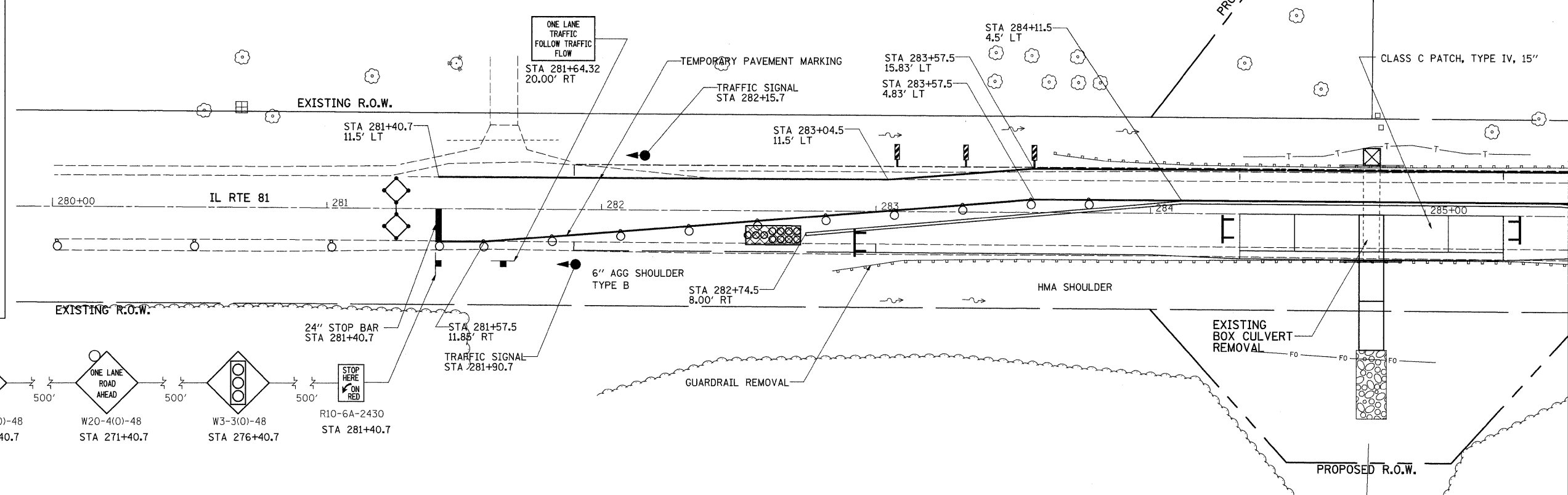
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.611	102T	HENRY	41	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 2



LEGEND

- = WORK AREA
- = SIGN
- = TYPE III BARRICADE
- = DRUM WITH STEADY BURNING LIGHT
- = DOUBLE VERTICAL PANEL
- = TYPE C BIDIRECTIONAL REFLECTOR
- = STEADY BURNING LIGHTS & DOUBLE VERTICAL PANELS
- = TRAFFIC SIGNAL
- = INDUCTION LOOP DETECTOR
- = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

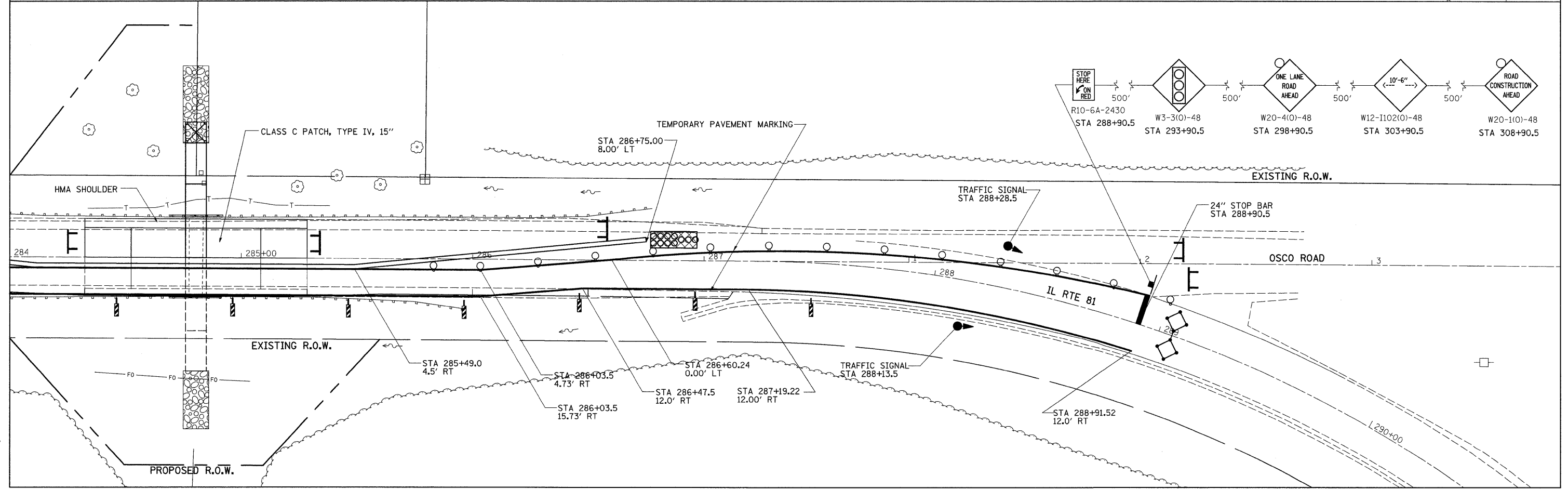
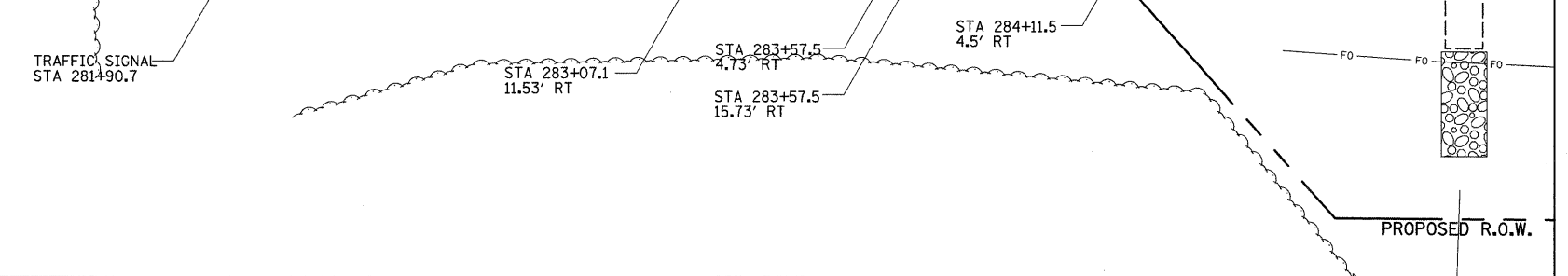
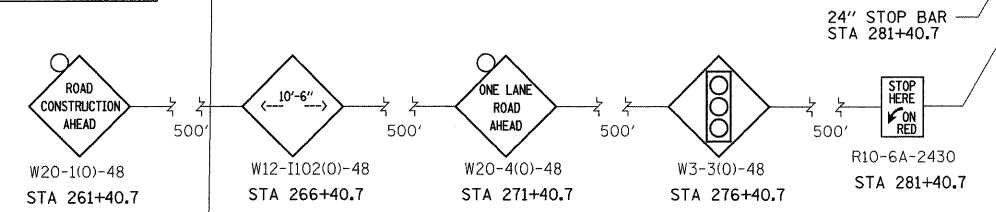
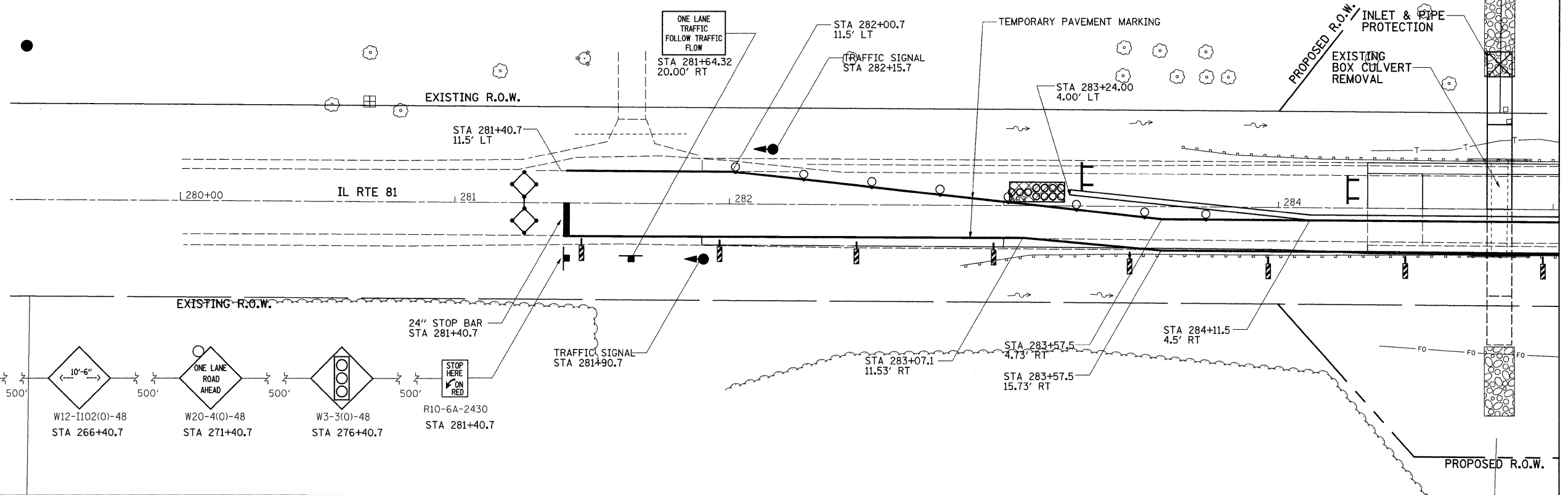
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 USER NAME = jrdamhd

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	16
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

STAGE 3

LEGEND

- = WORK AREA
- = SIGN
- = TYPE III BARRICADE
- = DRUM WITH STEADY BURNING LIGHT
- = DOUBLE VERTICAL PANEL
- = TYPE C BIDIRECTIONAL REFLECTOR
- = STEADY BURNING LIGHTS & DOUBLE VERTICAL PANELS
- = TRAFFIC SIGNAL
- = INDUCTION LOOP DETECTOR
- = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



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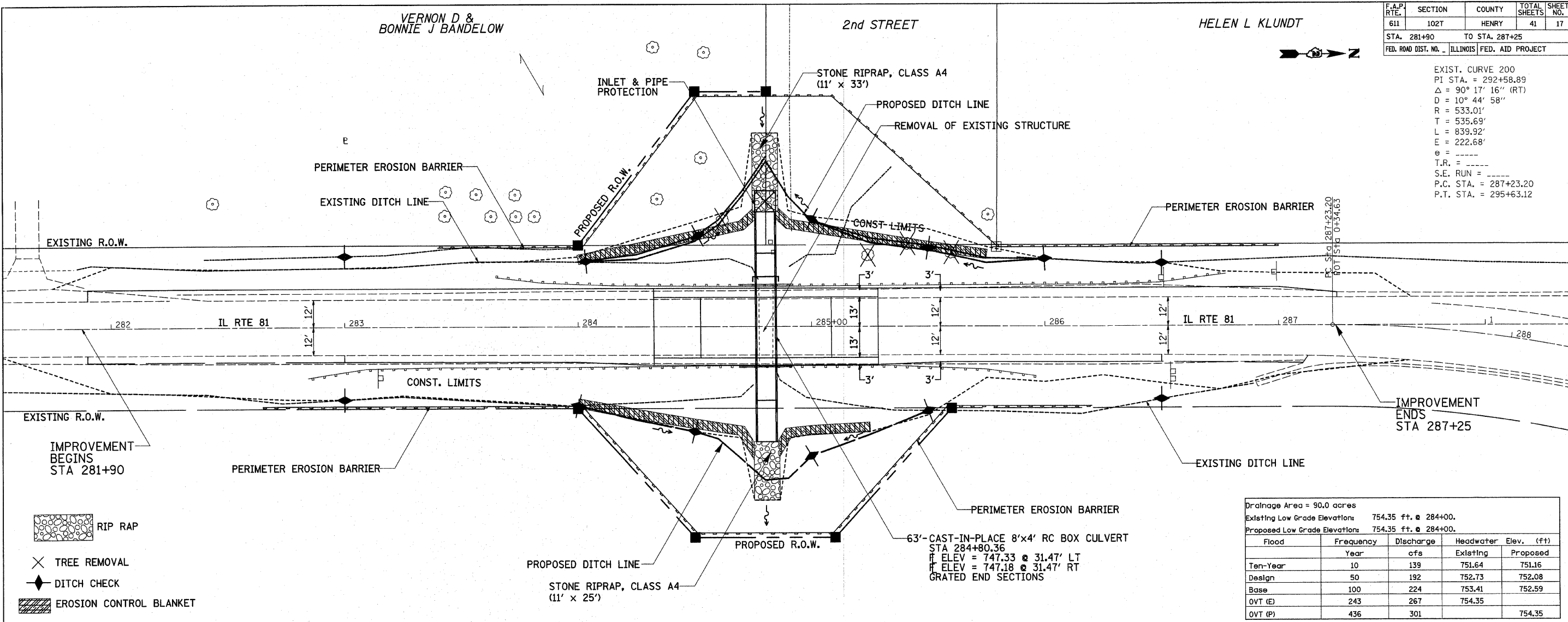
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	17
STA. 281+90		TO STA. 287+25		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT

EXIST. CURVE 200
 PI STA. = 292+58.89
 $\Delta = 90^\circ 17' 16''$ (RT)
 $D = 10^\circ 44' 58''$
 $R = 533.01'$
 $T = 535.69'$
 $L = 839.92'$
 $E = 222.68'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 $P.C. STA. = 287+23.20$
 $P.T. STA. = 295+63.12$

DATE	BY	REVISION

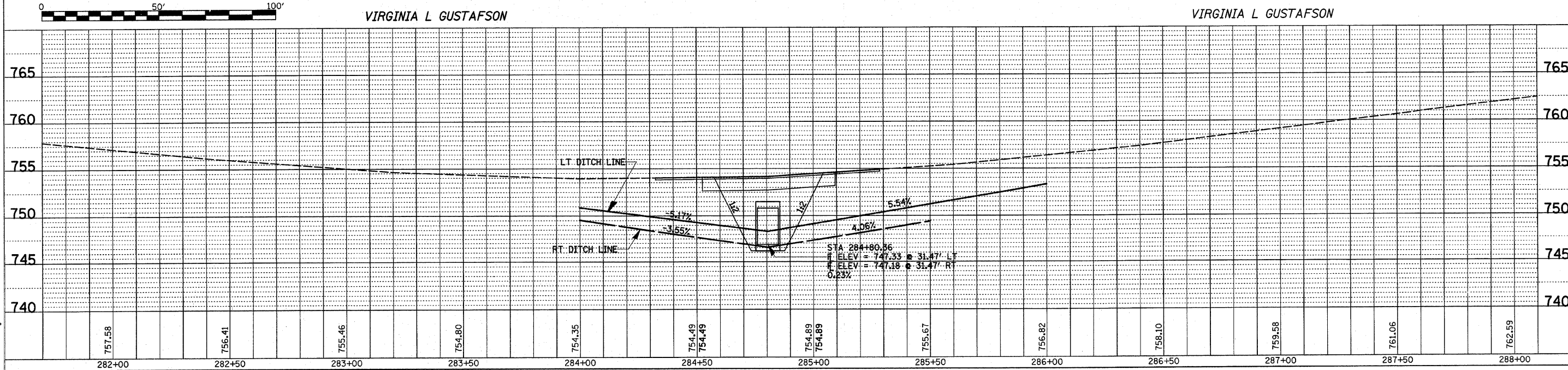
DATE	BY	REVISION

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 PLOT SCALE = 1/4" = 10'-0"
 USER NAME = jordanhd



Drainage Area = 90.0 acres
 Existing Low Grade Elevation: 754.35 ft. @ 284+00.
 Proposed Low Grade Elevation: 754.35 ft. @ 284+00.

Flood	Frequency	Discharge	Headwater Elev. (ft)	
			Existing	Proposed
Ten-Year	10	139	751.64	751.16
Design	50	192	752.73	752.08
Base	100	224	753.41	752.59
OVT (E)	243	267	754.35	754.35
OVT (P)	436	301	754.35	754.35

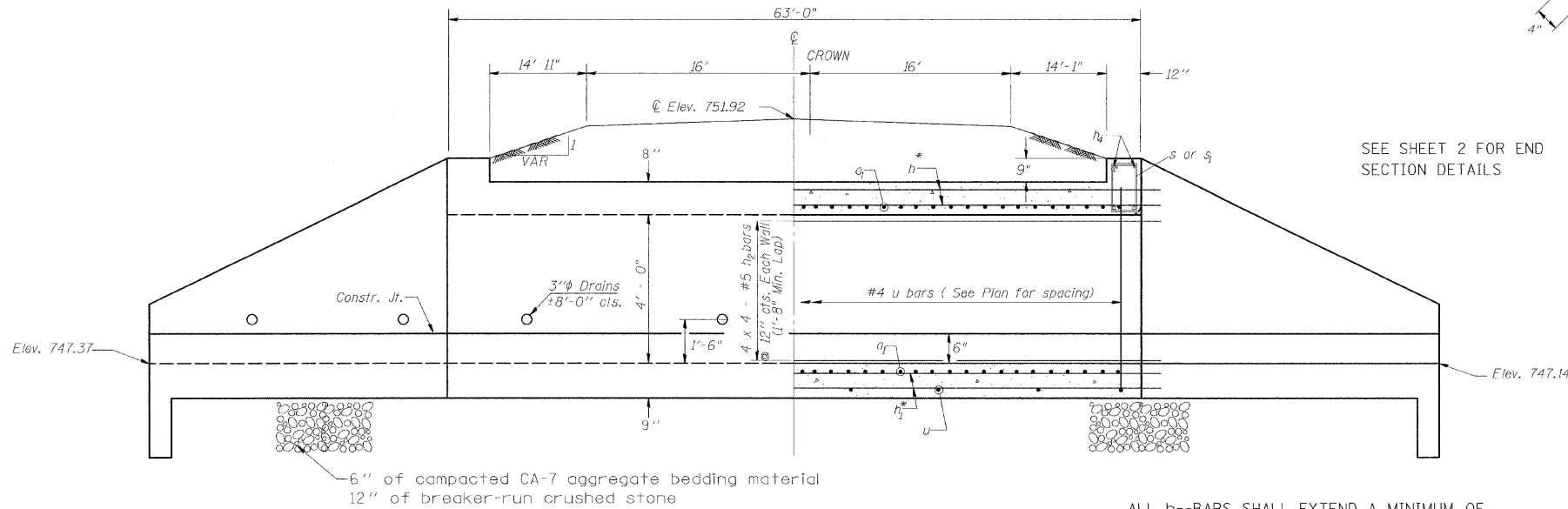


DRAINAGE & EROSION CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	1021	HENRY	41	19
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONCRETE BOX CULVERTS

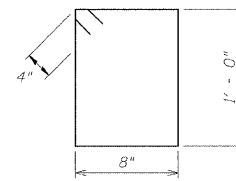
STA 284 + 80.47



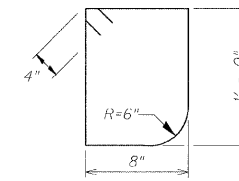
HALF ELEVATION

HALF LONG SECTION

SEE SHEET 2 FOR END SECTION DETAILS

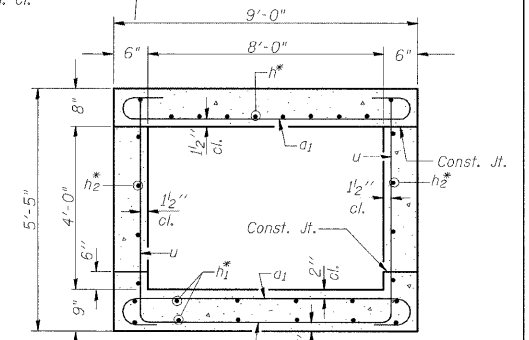


BAR S

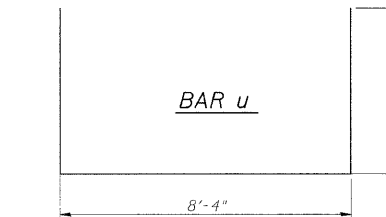


BAR S1

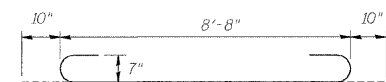
Trim hook of a1 bars if necessary for 1/2" min. cl.



SECTION THRU BARREL



BAR u



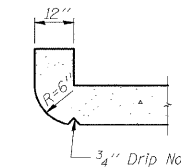
BAR a1

ALL h-BARS SHALL EXTEND A MINIMUM OF ONE (1) LAP LENGTH INTO PROPOSED END SECTIONS
D-BARS WILL BE CAST-IN-PLACE WITH BOX CULVERT BARREL IN ACCORDANCE WITH CULVERT DETAILS

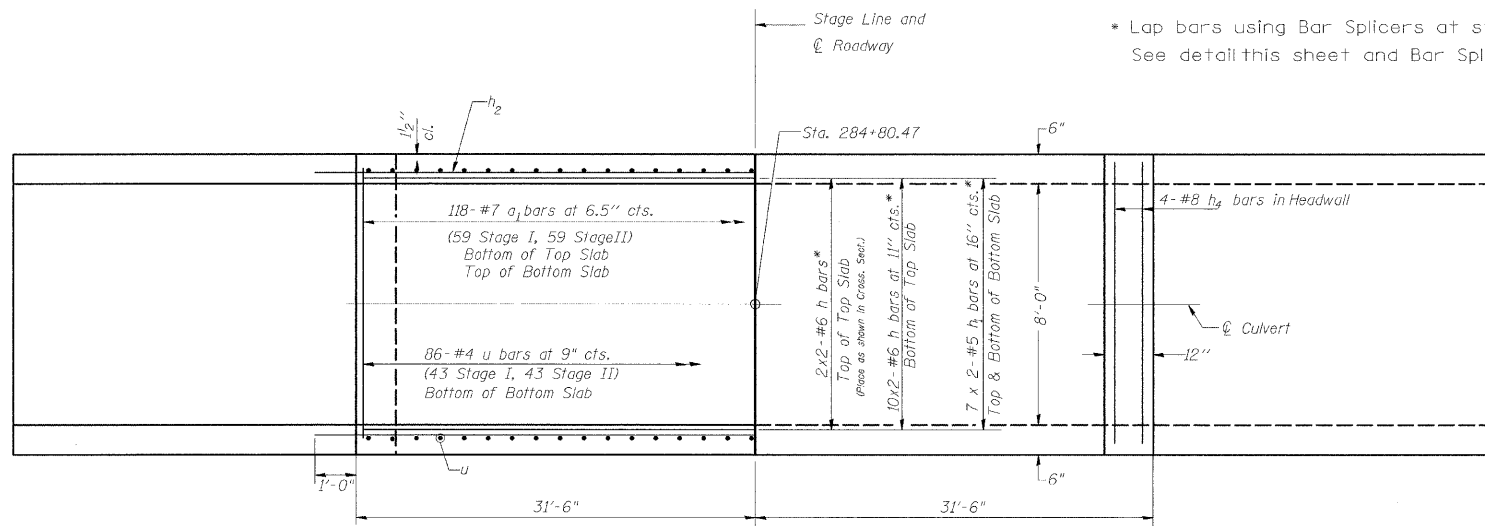
* Lap bars using Bar Splicers at stage construction line. See detail this sheet and Bar Splicer sheet

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

MINIMUM LAP



SECTION THRU HEADWALL (Up Stream End Only)



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

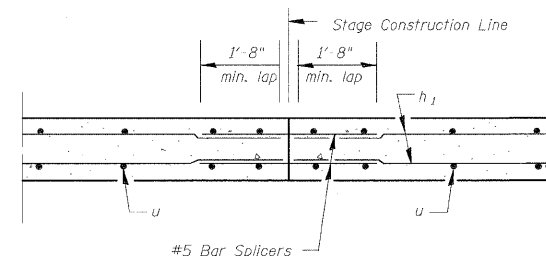
NOTES

- Precast option is not allowed.
- Reinforcement Bars shall conform to the requirements of ASTM A 106 Gr 60 (IL Modified) See Special Provisions.
- Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
- All construction joints shall be bonded.
- 6" of compacted CA-7 aggregate bedding material shall be place beneath the box culvert. The cost for the CA-7 aggregate shall be included in the cost of Concrete Box Culverts.
- The cost of excavation and backfilling shall be included in the cost of Concrete Box Culverts.

LOADING HS20-44 & ALT.

DESIGN STRESSES

FIELD UNITS
fy = 60,000 psi
f'c = 3,500 psi



STAGE LINE DETAILS

Bottom Slab Shown
Sidewalls and Top Slab Similar
See Bar Splicer Sheet for splicer details

BILL OF MATERIAL

Location	Spacing	Bar	No.	Size	Length	Shape	
Floor/Ceiling	6.5"	a1	236	#7	10'-4"	U	
Floor/Walls	9"	u	86	#4	18'-4"	—	
Floor	16"	h1	56	#5	17'-10"	—	
Ceiling	11"	h	48	#6	16'-10"	—	
Walls	12"	h2	32	#5	17'-10"	—	
Headwall - DS	11"	s	10	#5	4'-0"	—	
Headwall - US	11"	s	10	#5	3'-9"	—	
Headwall		h4	8	#5	8'-9"	—	
Concrete Box Culverts						Cu. Yd.	39.6
Reinforcement Bars						Pound	9090
Bar Splicers						Each	34

WATERWAY INFORMATION

Drainage Area = 90.0 acres
Existing Low Grade Elevation: 754.35 ft. @ 284+00.
Proposed Low Grade Elevation: 754.35 ft. @ 284+00.

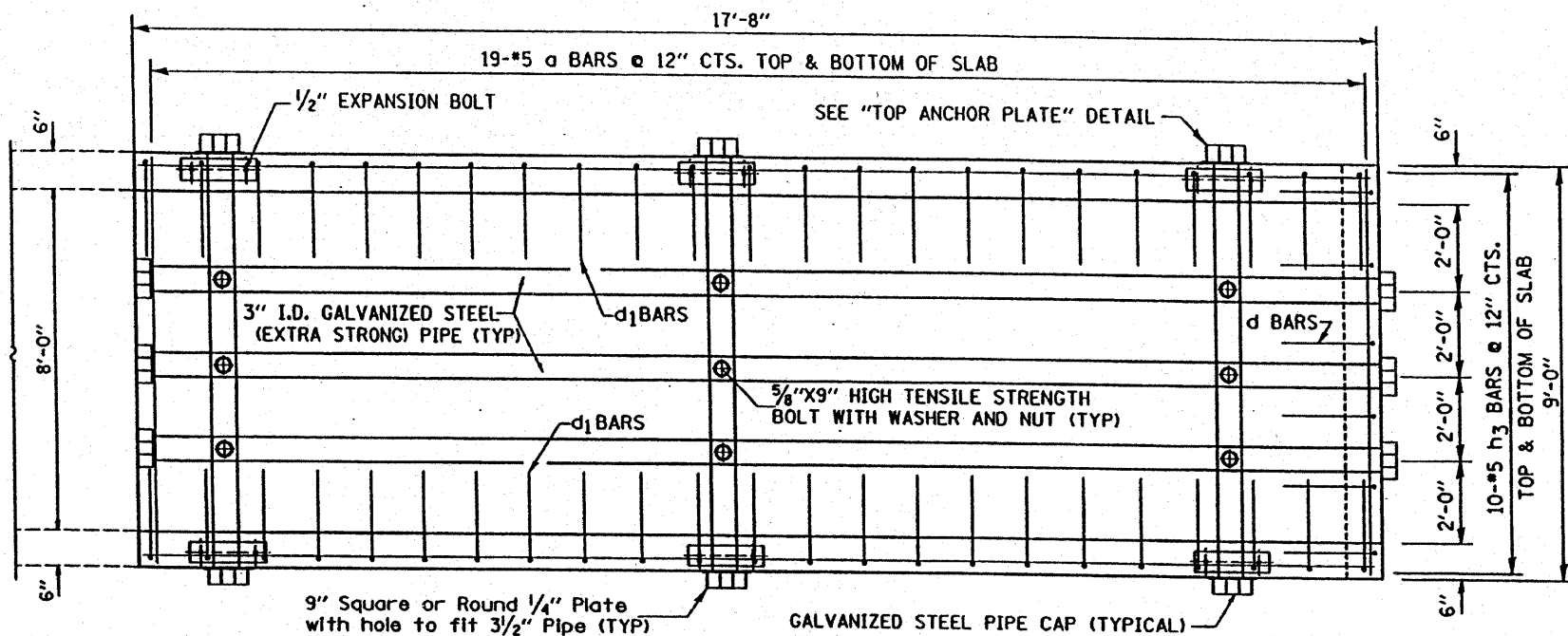
Flood	Frequency	Discharge	Headwater	Elev. (ft)
	Year	cfs	Existing	Proposed
Ten-Year	10	139	751.64	751.16
Design	50	192	752.73	752.08
Base	100	224	753.41	752.59
OVT (E)	243	267	754.35	
OVT (P)	436	301		754.35

CONCRETE BOX CULVERT END SECTION LT & RT STA 284+80.47

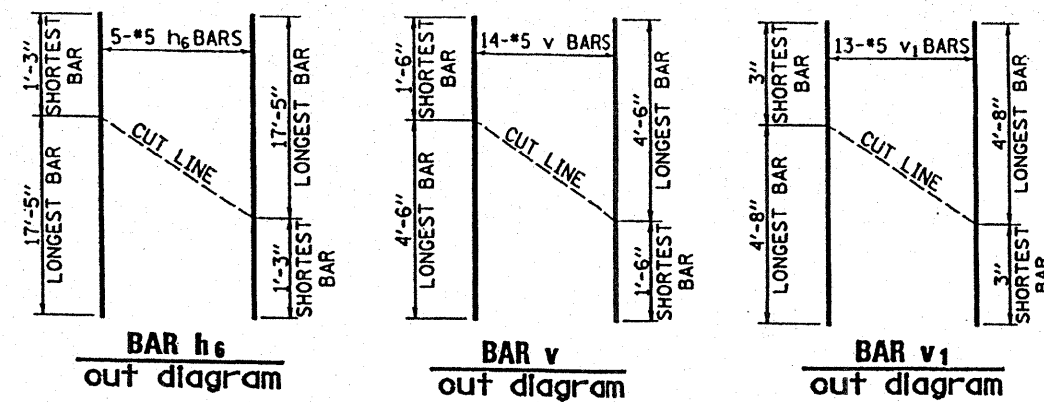
CONTRACT NO. 64C70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	20
STA. 281+90 TO STA. 287+25				
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT

Order v, v₁ and h₆ bars full length
Cut to fit as shown and
use remainder of bars in
opposite wall.



PLAN

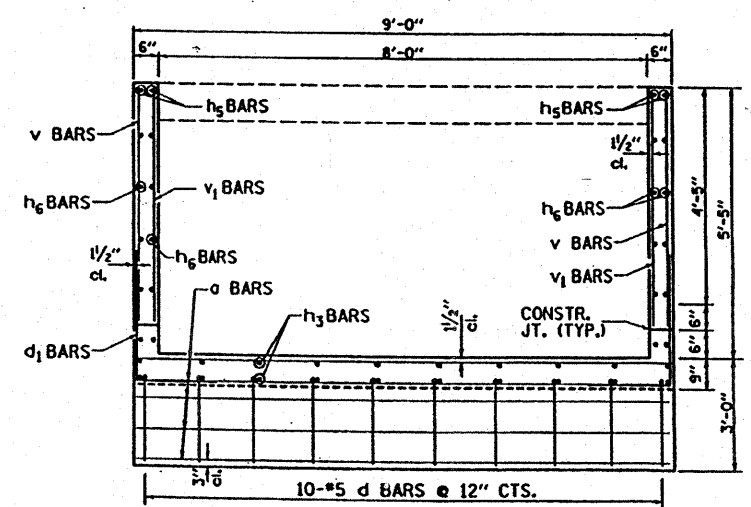


BAR h₆
out diagram

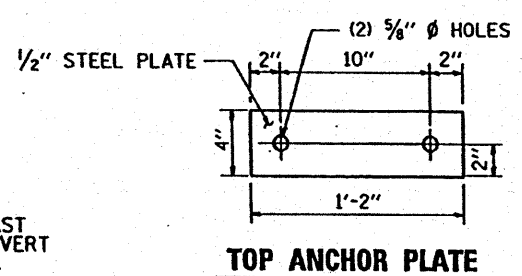
BAR v
out diagram

BAR v₁
out diagram

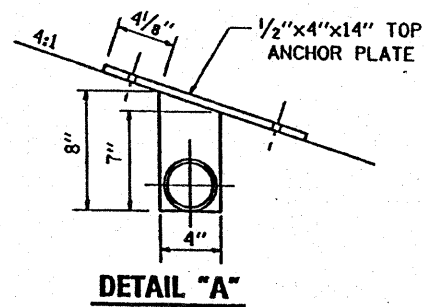
James O. Hamilton
 1/24/2008 Expires 11/30/2008



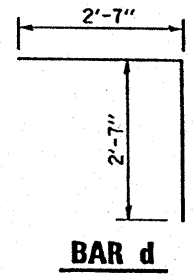
SECTION THRU END SECTION



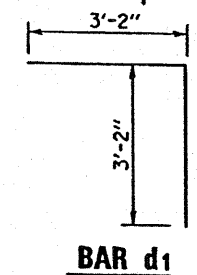
TOP ANCHOR PLATE



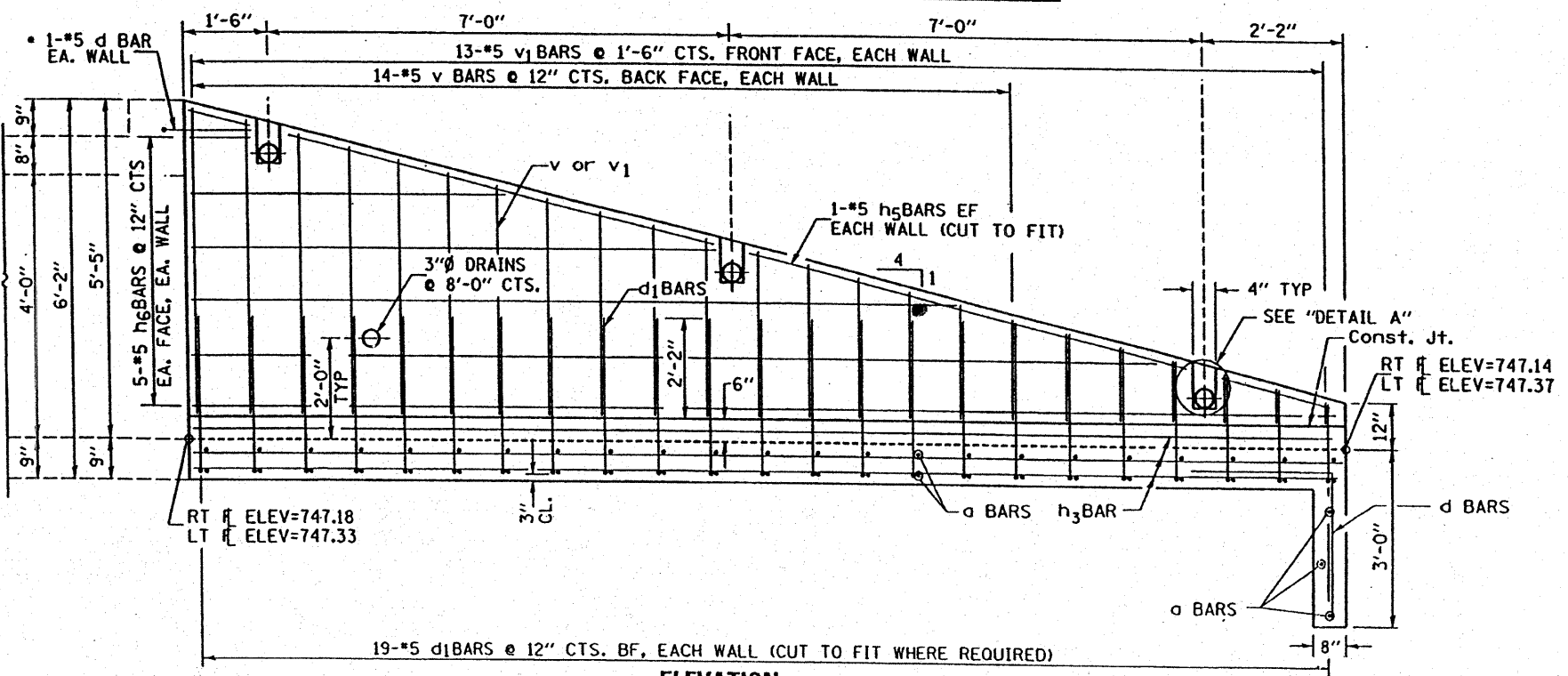
DETAIL "A"



BAR d



BAR d₁



ELEVATION

BILL OF MATERIALS

(Both Ends) (For Information Only)

BAR	NUMBER	SIZE	LENGTH
a	76	#5	8'-9"
d	24	#5	5'-2"
d ₁	76	#5	6'-4"
h ₃	48	#5	17'-5"
h ₅	8	#5	17'-11"
h ₆	20	#5	18'-8"
v	28	#5	6'-0"
v ₁	26	#5	4'-11"

DESCRIPTION	UNIT	QTY.
Concrete Box Culverts	CU. YD	14.0
Reinforcement Bars	LBS.	3,040
3" I.D. Galvanized Steel Pipe	6e	17'-9"
	6e	9'-4"
3" Galv Pipe Caps	EACH	24
1/4" Galv. Stl. Plate (9" Nominal)	EACH	12
1/2" x 4" x 14" Galv. Steel Plate	EACH	12
5/8" x 9" Galv. Steel Bolts	EACH	18
Expansion Bolts 1/2"	EACH	24

GENERAL NOTES:

Exposed edges shall be beveled 3/4".

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

All work and materials incorporated (Except Reinf. Bars) into the construction of the Box Culvert, End Sections and grates shall be paid for at the contract unit price cu yd for CONCRETE BOX CULVERTS.

bars will be paid for at the contract unit price pound for REINFORCEMENT BARS

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.

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

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

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

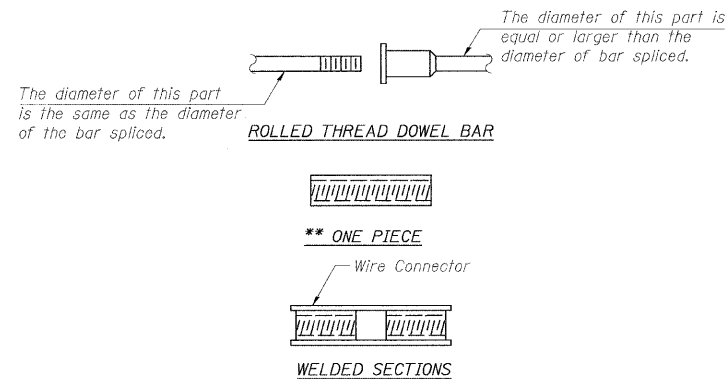
Contractor shall field verify Galvanized pipe length.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102I	HENRY	41	206
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

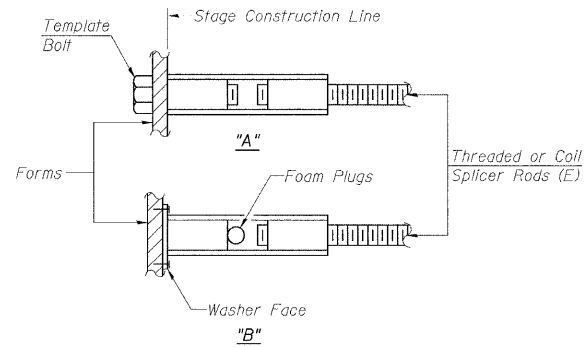
CONCRETE BOX CULVERTS

STA 284 + 80.47



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.

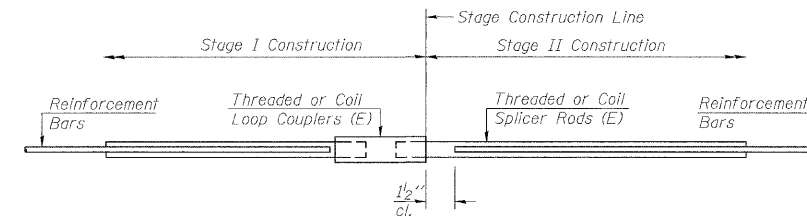
NOTES

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) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

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



STANDARD

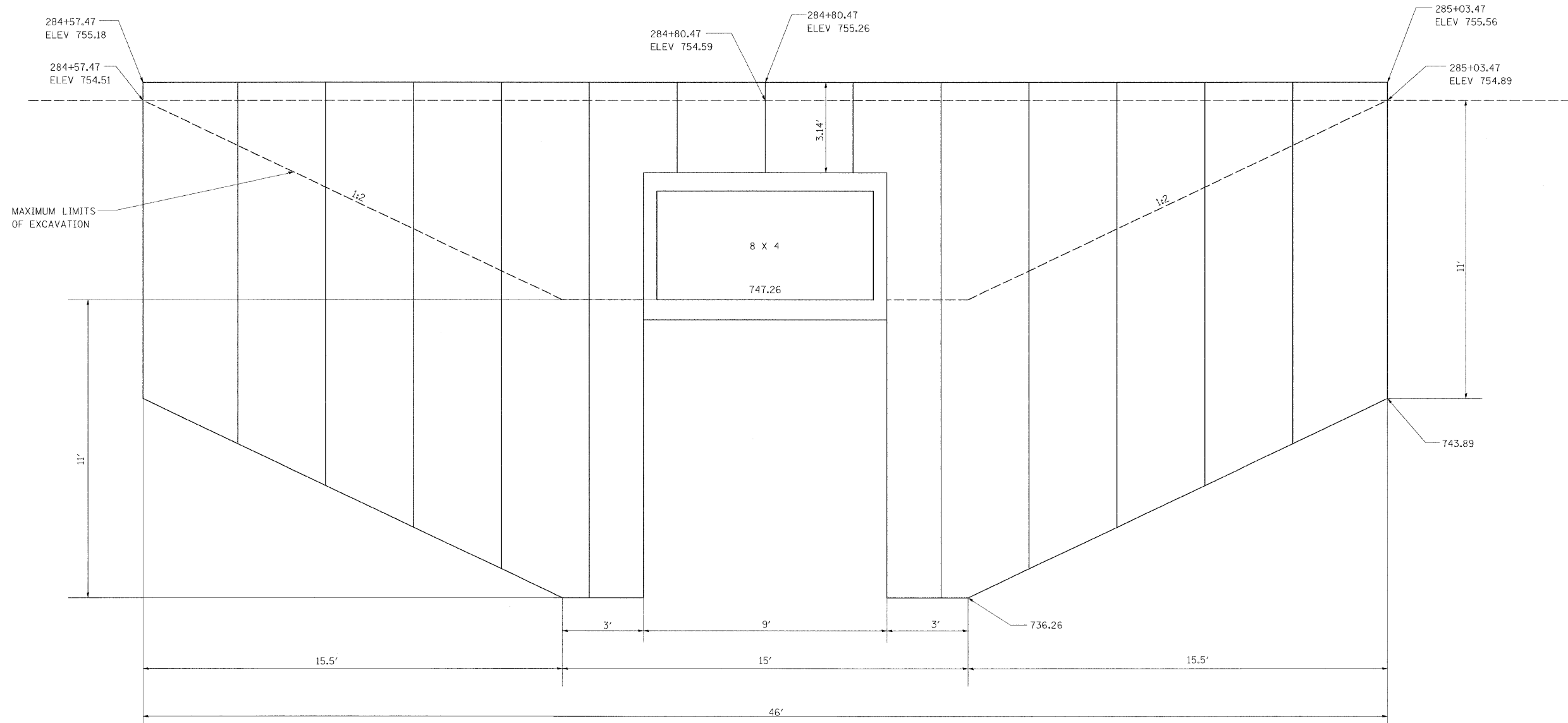
Bar Size	No. Assemblies Required	Location
#5	14	Bottom Slab
#5	8	Side Walls
#6	12	Top Slab

BAR SPLICER ASSEMBLY DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BOX CULVERT TEMP. SHEET PILING

**8 X 4 BOX CULVERT
STA. 284 + 80.47**



TOTAL AREA
619.23 FT²

TEMPORARY SHEET PILING

S = Minimum Required Section Modules

$$S = 6.88 \text{ in} / \text{ft}^3$$

MINIMUM EMBEDMENT LENGTH = 11.0'

NOTES:

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans for lesser design requirements, then full design submittal with the required seals will be expected by the Department, for review and approval.

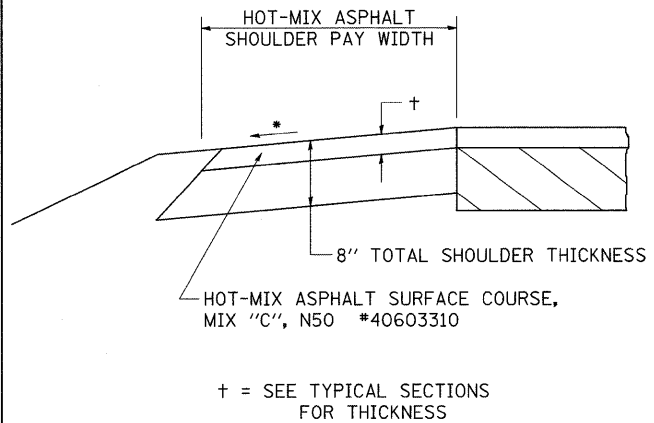
It shall be the Contractor's responsibility to retain the soil on top of the culvert subject to the approval of the Engineer. This shall not be paid for separately but shall be included in the cost of Temporary Sheet Piling.

Plan dimensions and details relative to existing structures have been taken from field survey. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

PLOT DATE = 04/05/08
FILE NAME = 64CT0102T.dwg
REFERENCE = 64CT0102T.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	22
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

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.

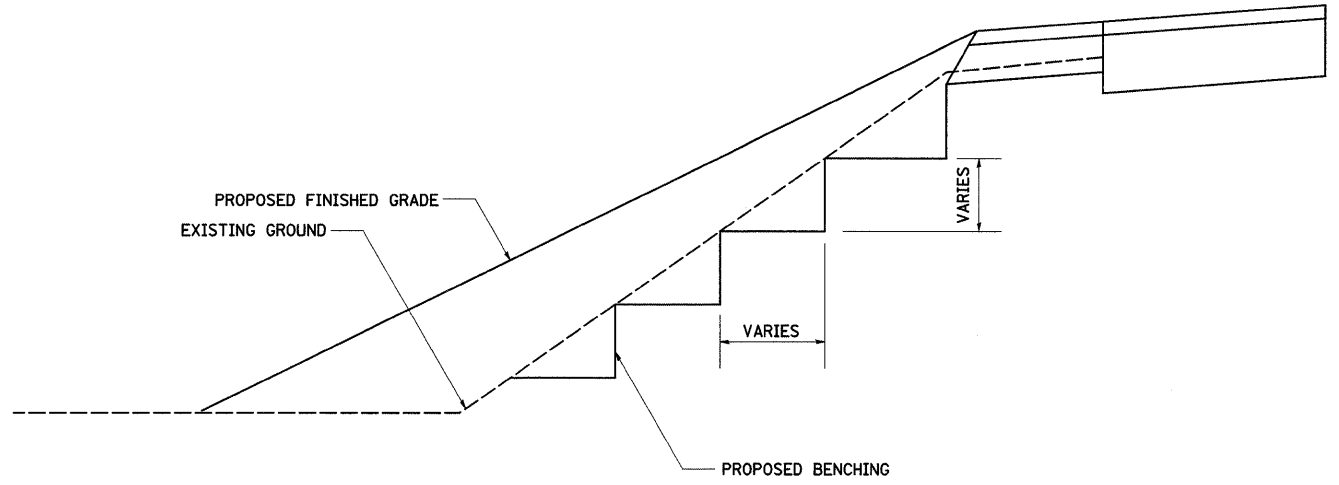
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

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

HOT-MIX ASPHALT SHOULDER 23.4a

REVISED 10-06-06

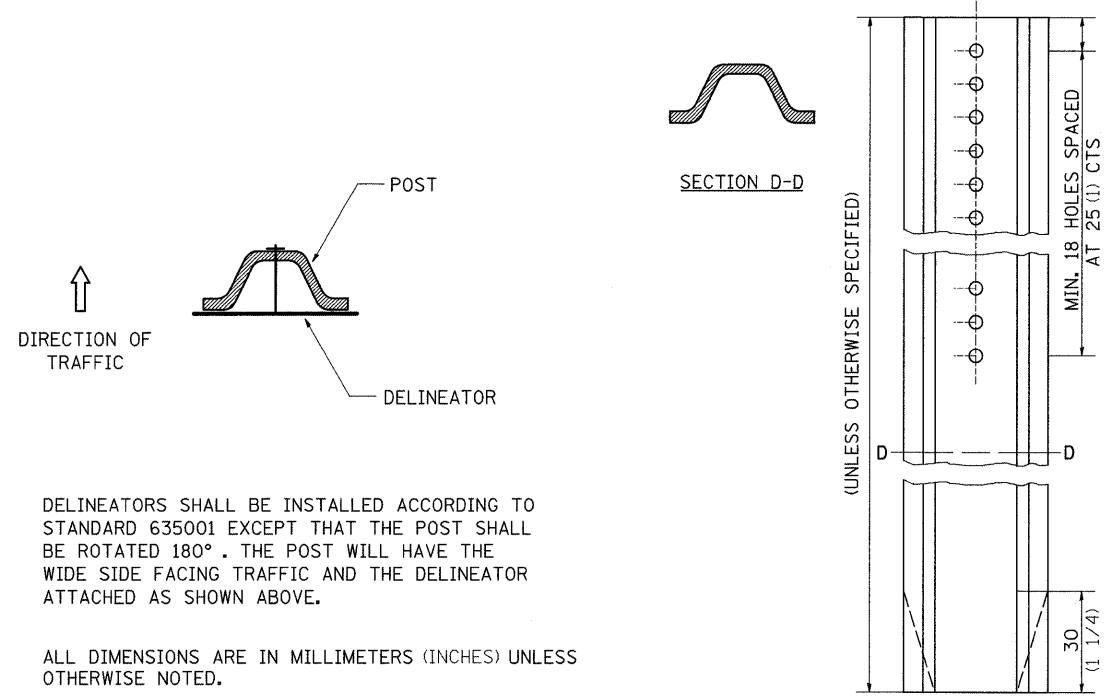
TYPICAL BENCHING ON EXISTING EMBANKMENT



TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

REVISED 2-22-06

DELINEATOR AND POST ORIENTATION



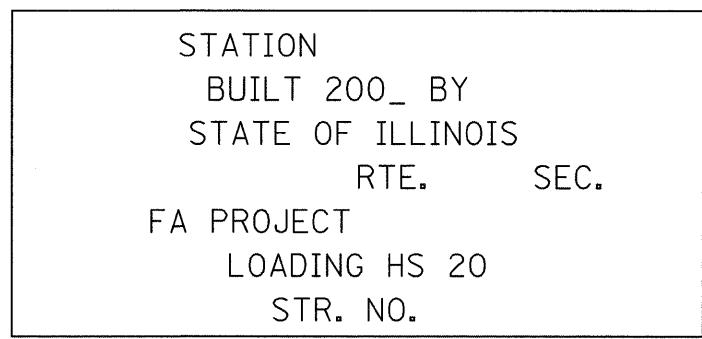
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

DELINEATOR AND POST ORIENTATION 37.4

REVISED 1-31-00

LETTERING FOR NAME PLATE



SEE STD. 515001

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

LETTERING FOR NAME PLATE 89.4

REVISED 10-15-04

PLOT DATE = Thu Jan 31 07:42:25 2008
 FILE NAME = C:\Programs\AutoCAD\211985\dl1985apl.dgn
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TREE REPLACEMENT SCHEDULE

CODE NUMBER	SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT	QUANTITY
B2000116	ACER CAMPESTRE	HEDGE MAPLE	2" CALIPER, TREE FORM, BALLED & BURLAPPED	--	4

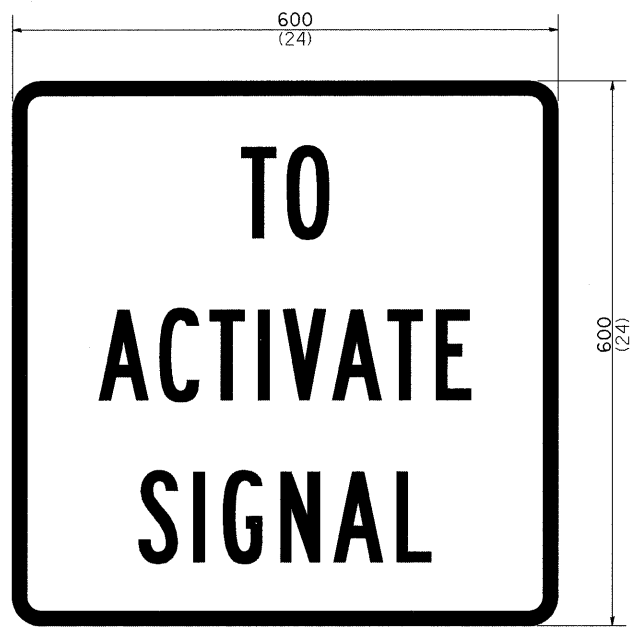
ALTERNATE PLANTING LOCATION WILL BE AT FAI-74/IL 81 INTERCHANGE.
COORDINATE WITH RESIDENT ENGINEER PRIOR TO PLANTING.

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

TREE REPLACEMENT SCHEDULE 90.4

REVISED 8-10-05

STOP LINE SIGN FOR TEMPORARY SIGNALS



- SIZE: 600(24) x 600(24)
- 100(4) CAPITAL LETTERS - BLACK
- 13 (1/2) BORDER - BLACK
- WHITE REFLECTIVE - TYPE AP HIGH INTENSITY PRISMATIC SHEETING

GENERAL NOTE:
THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

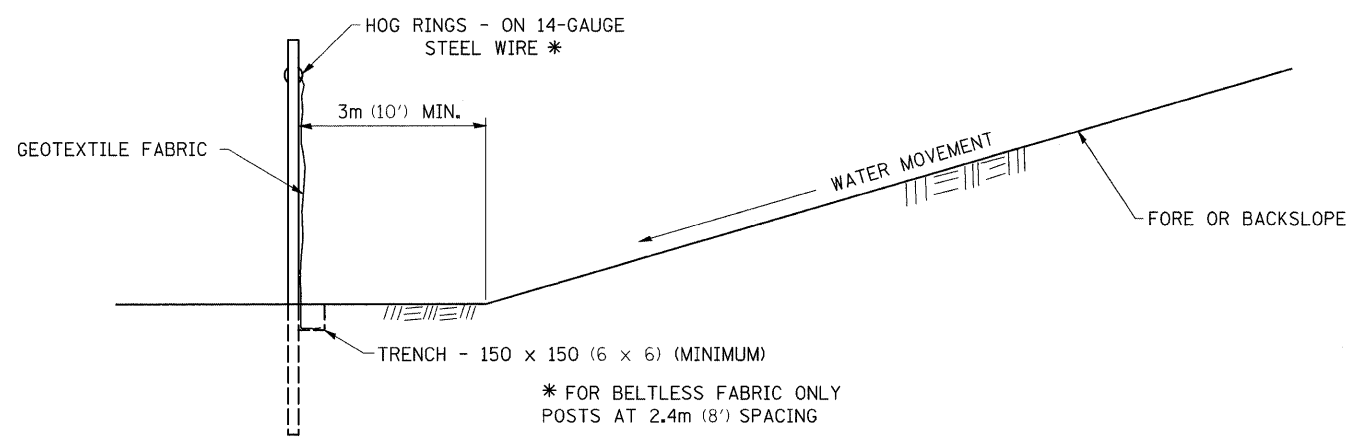
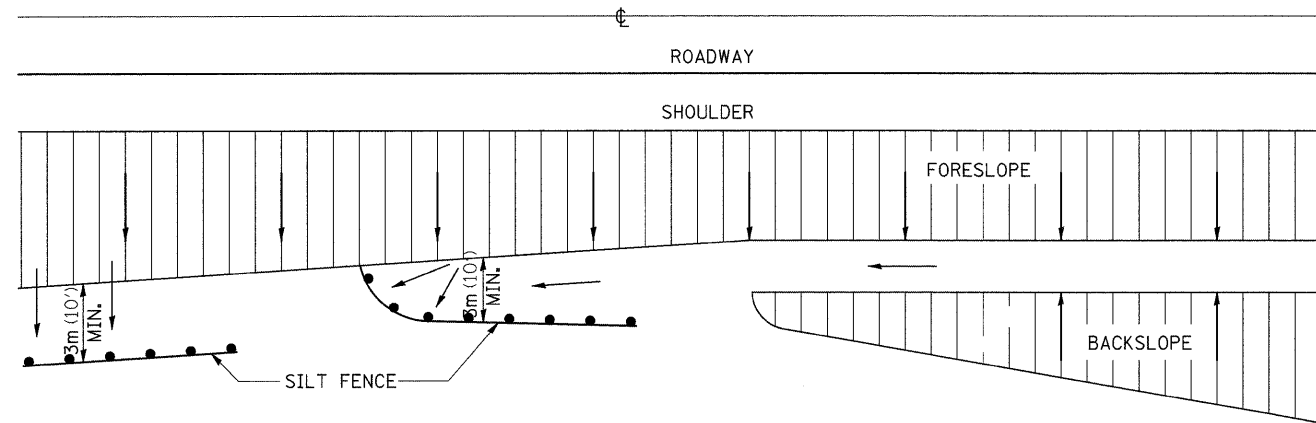
STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4

REVISED 1-22-07

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F.A.B. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EROSION CONTROL DETAILS FOR SILT FENCE

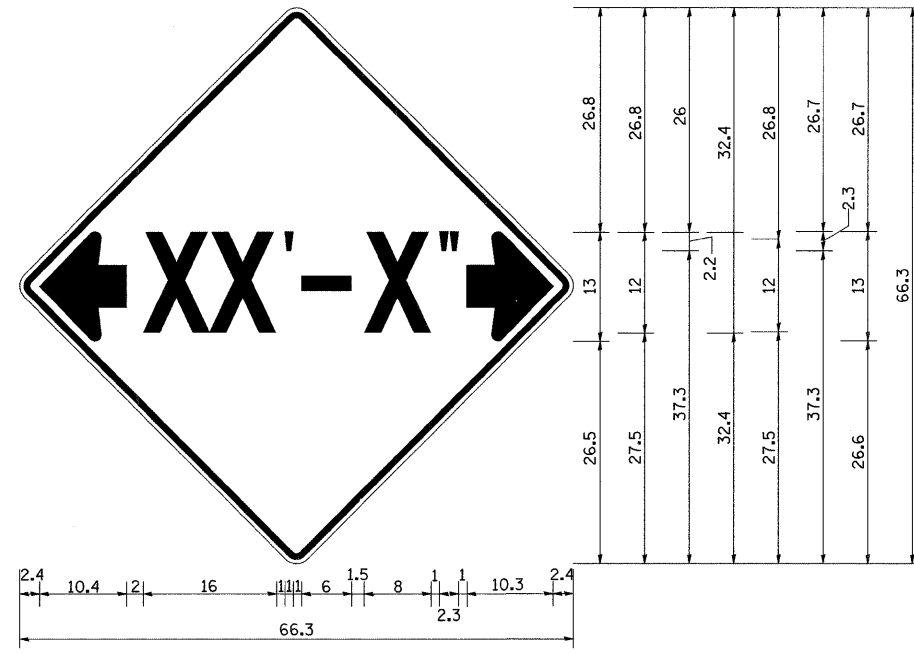


DETAILS OF SILT FENCE

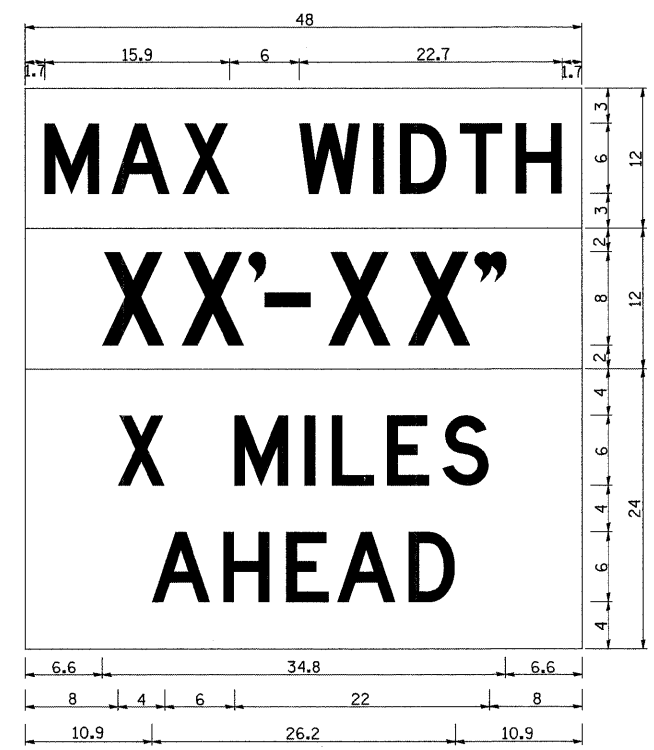
* FOR BELTLESS FABRIC ONLY
POSTS AT 2.4m (8') SPACING

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

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°



W12-1103 (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.

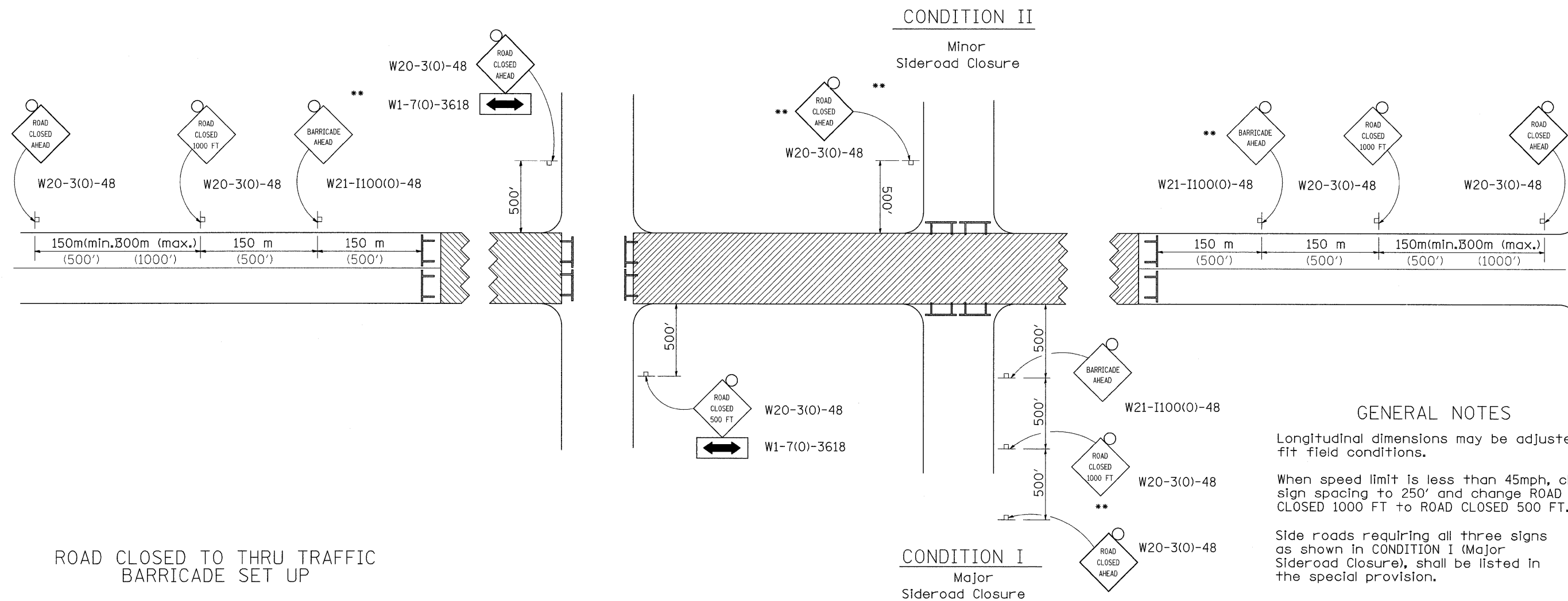
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-9-08

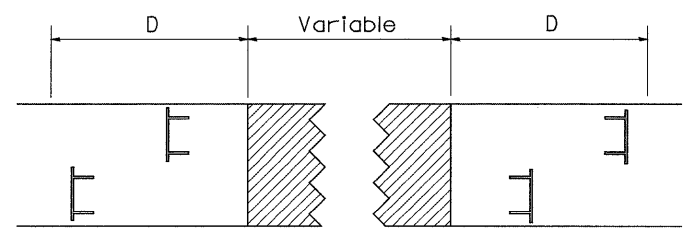
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REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	1021	HENRY	41	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TRAFFIC CONTROL FOR ROAD CLOSURE

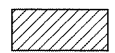




ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

SYMBOLS

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

GENERAL NOTES

- Longitudinal dimensions may be adjusted to fit field conditions.
- When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.
- Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

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

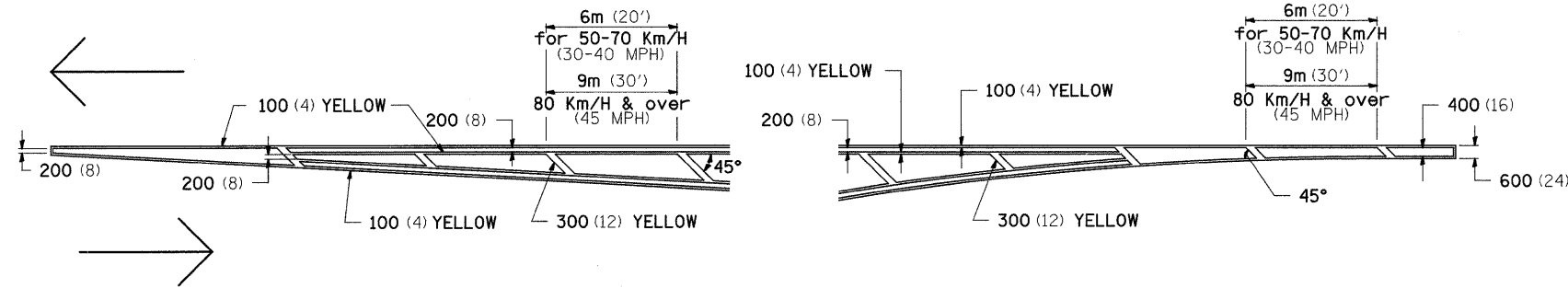
TYPICAL APPLICATION FOR ROAD CLOSURE

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 REFERENCE = REF#

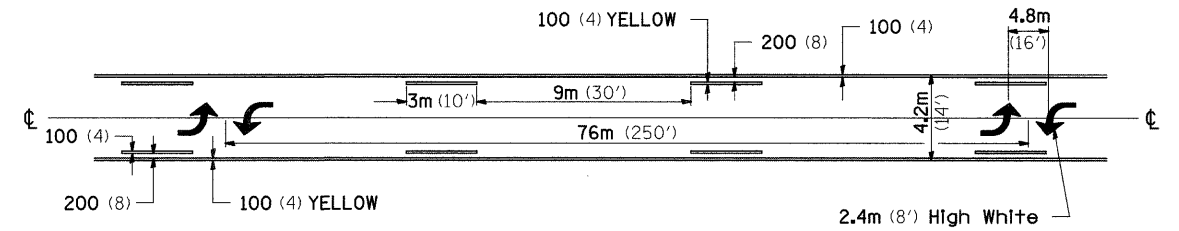
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
102T		HENRY	41	28
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

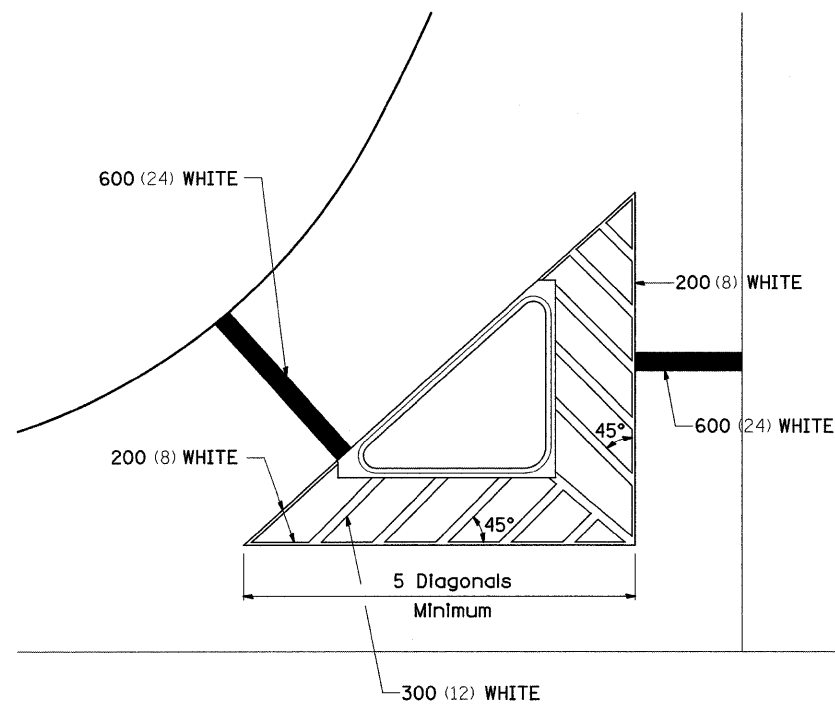
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



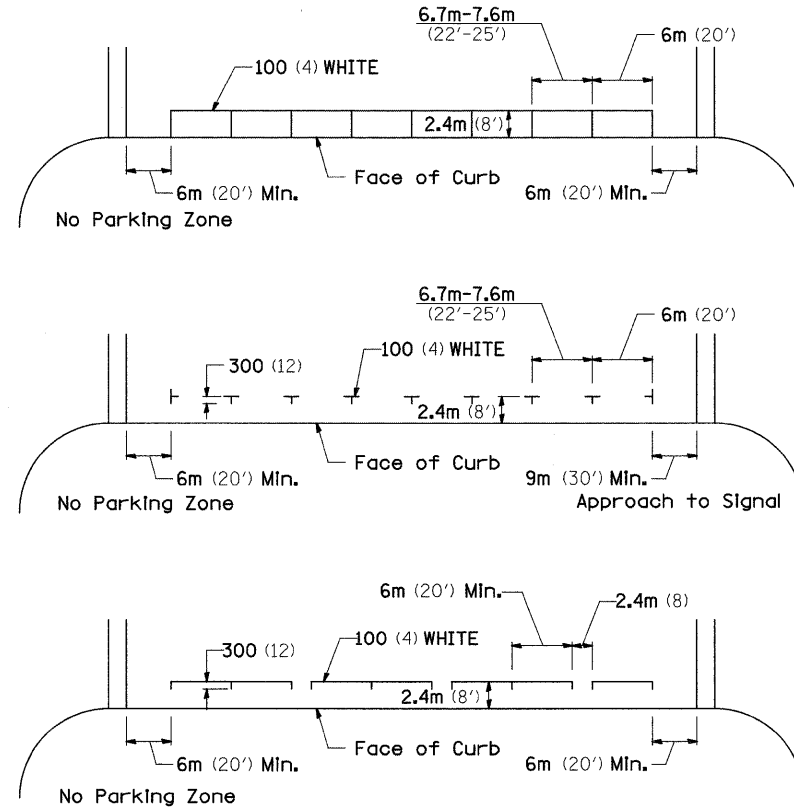
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



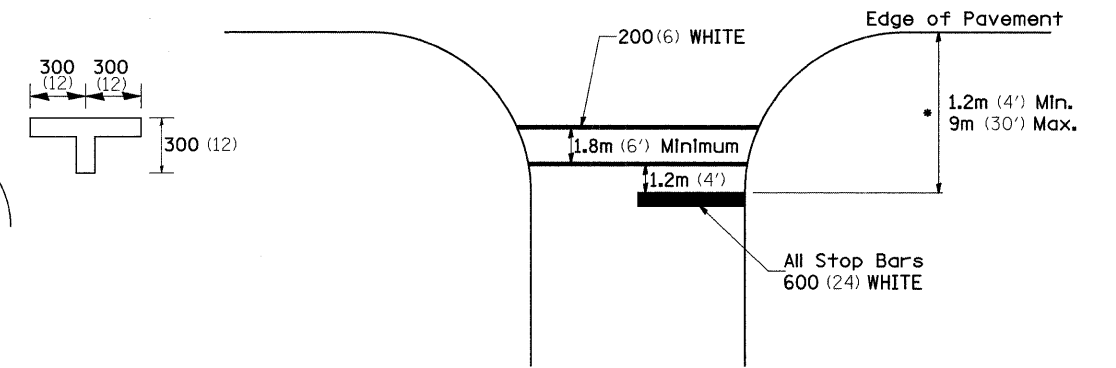
TYPICAL PARKING SPACING



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

STANDARD CROSSWALK MARKING

See Schedules for Locations

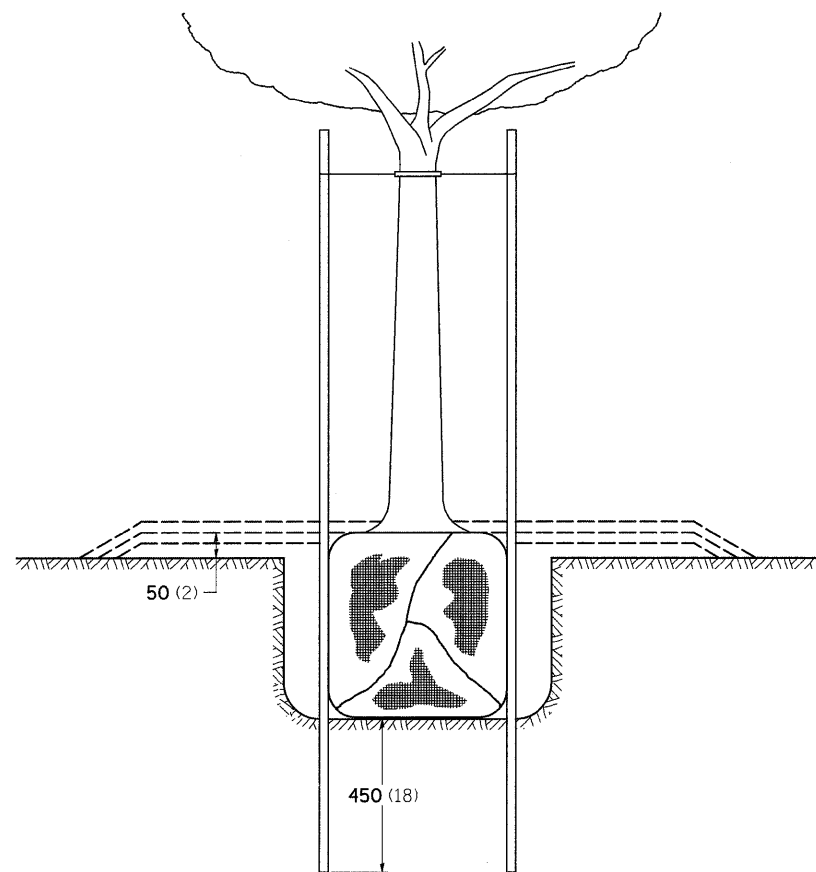


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

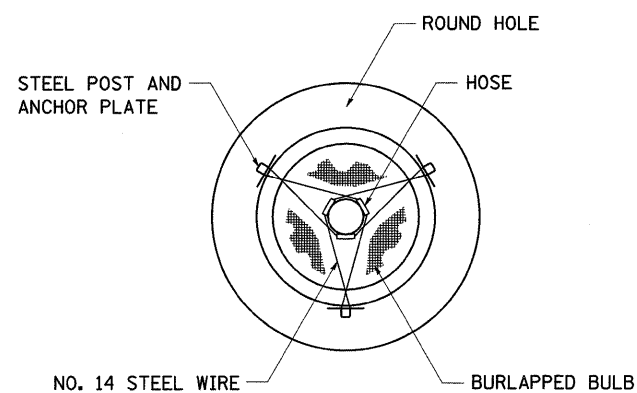
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	30
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES

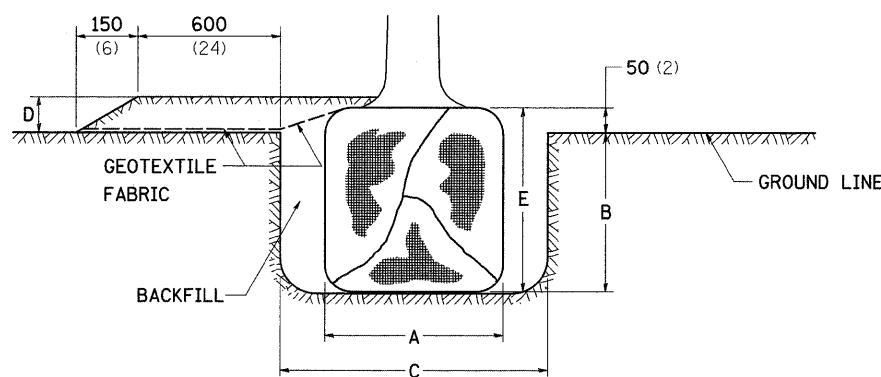


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

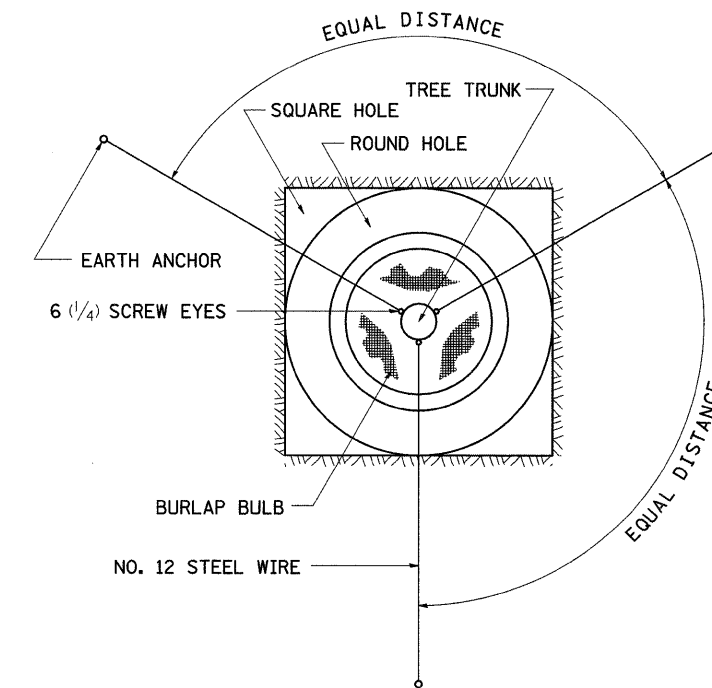


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250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

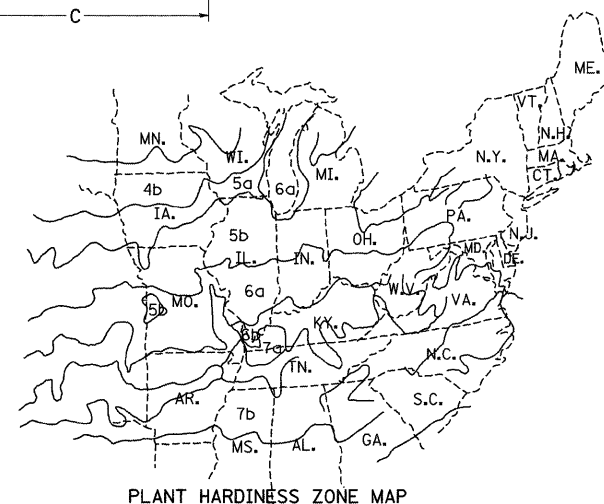
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	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

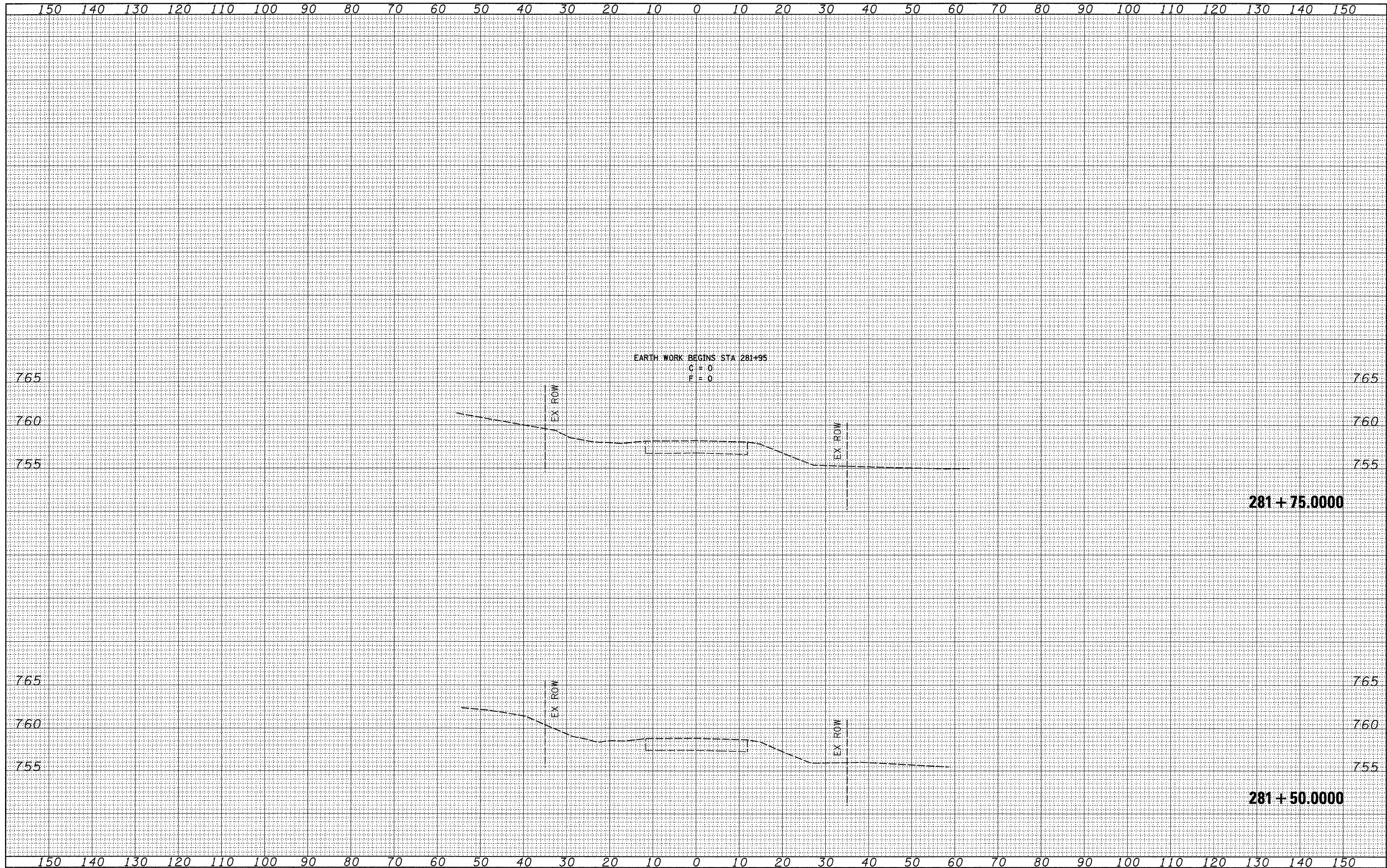


ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



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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NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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SURVEYED	
PLOTTED	
NOTE BOOK	
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AREAS CHECKED	
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 PLOT DATE = Thu Jan 31 07:50:11 2008

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

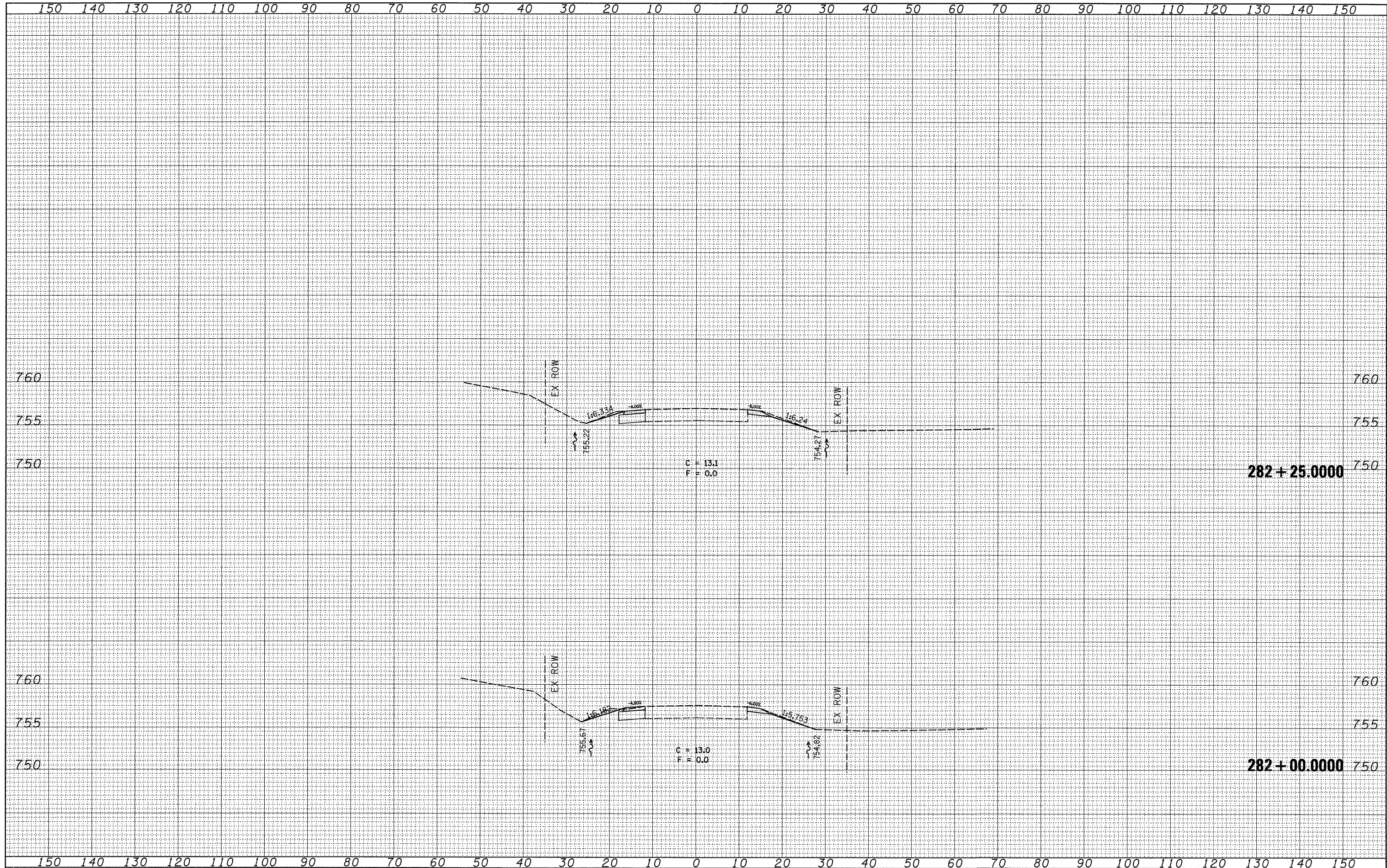
IL 81 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 281+50.0000 TO STA. 281+75.0000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	102T	HENRY	41	31
CONTRACT NO. 64C70				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

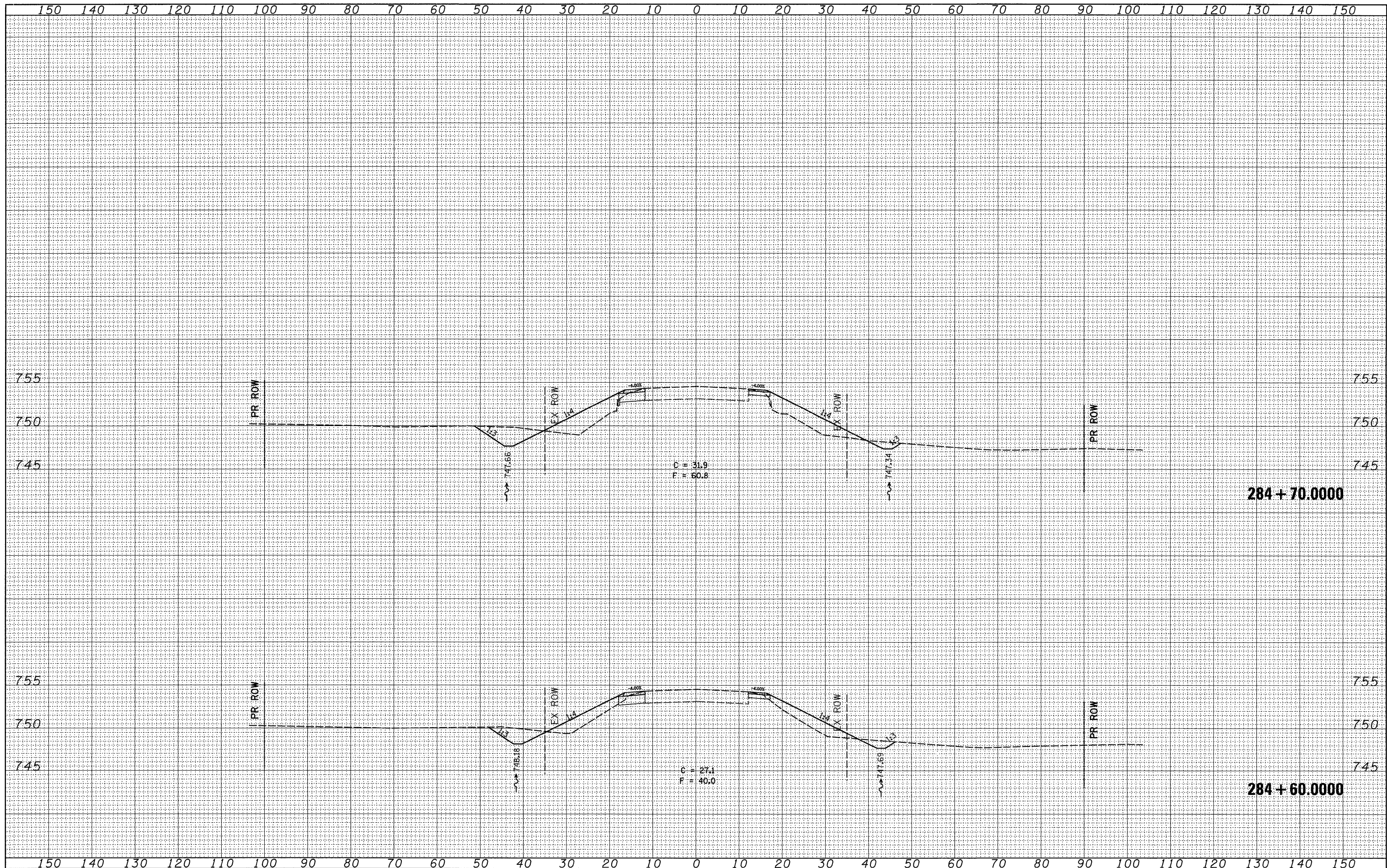
IL 81 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 282+00.0000 TO STA. 282+25.0000

F.A.P. RTE. 611	SECTION 102T	COUNTY HENRY	TOTAL SHEETS 41	SHEET NO. 32
CONTRACT NO. 64C70			ILLINOIS FED. AID PROJECT	

DATE	
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TEMPLATE	
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DATE	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

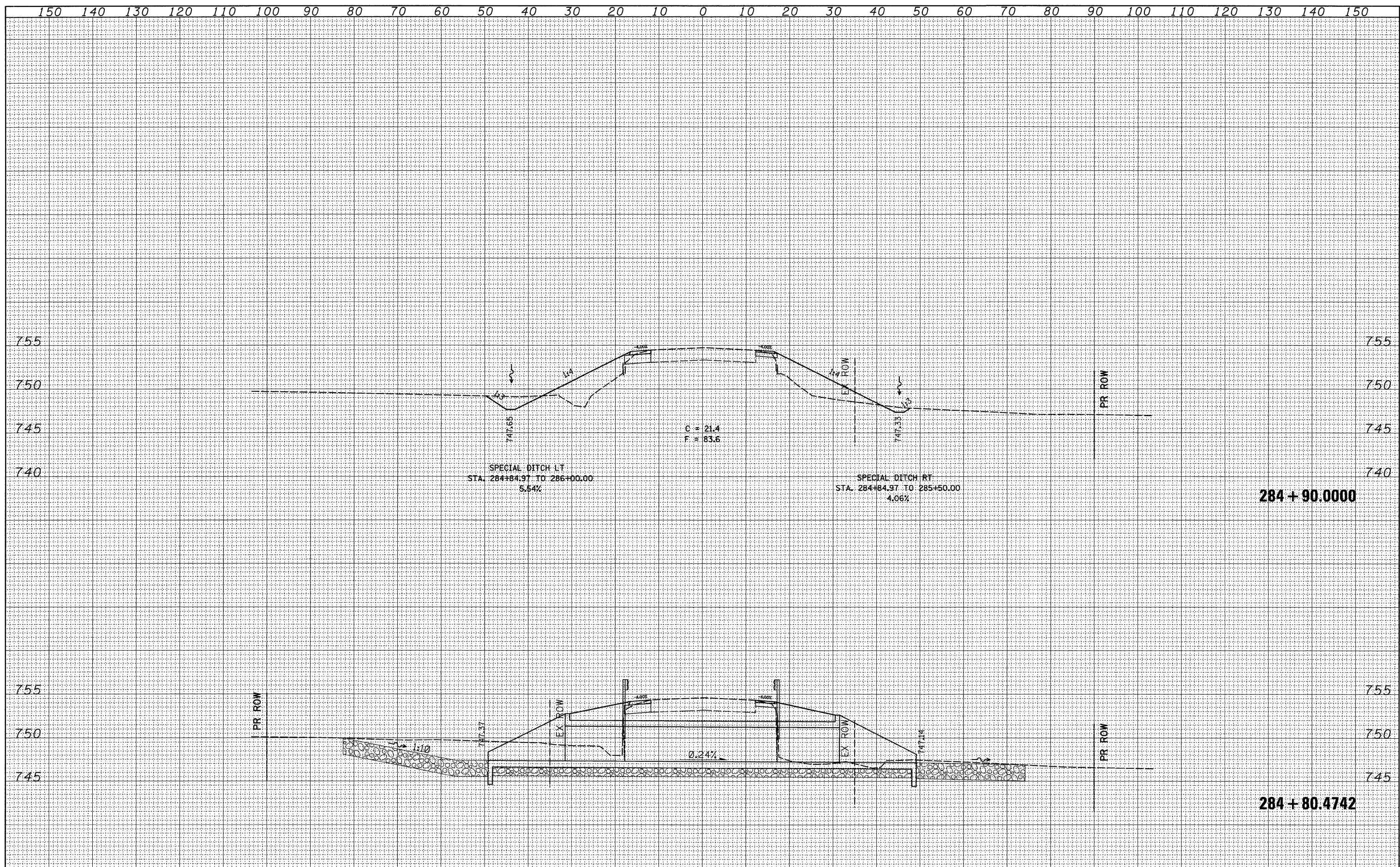
IL 81 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 284+60.0000 TO STA. 284+70.0000

F.A.P. RTE. 611	SECTION 102T	COUNTY HENRY	TOTAL SHEETS 41	SHEET NO. 36
CONTRACT NO. 64C70			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

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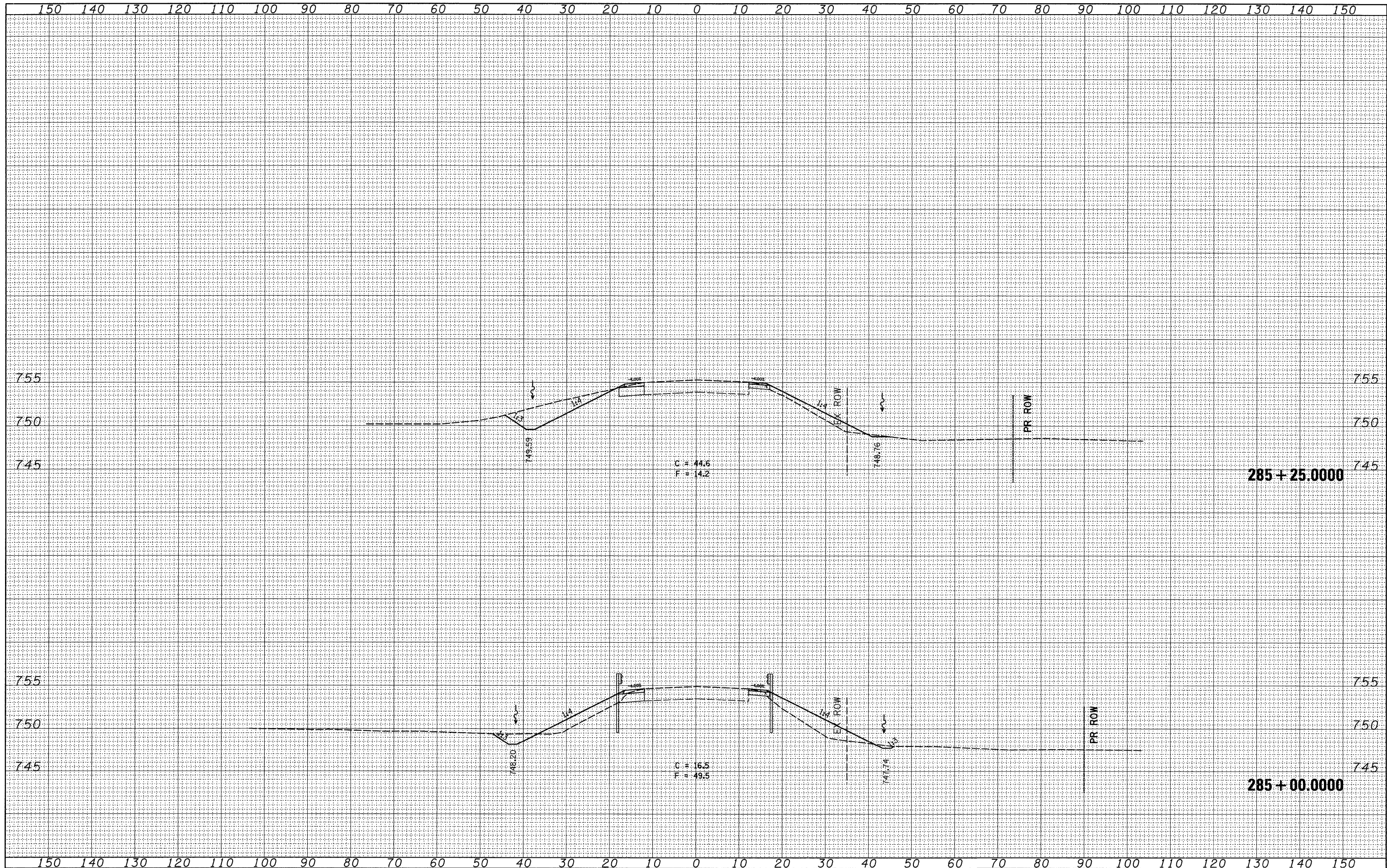
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	PLOT DATE = Thu Jan 31 07:50:12 2008	CHECKED -	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							
		DATE -	REVISED -									

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

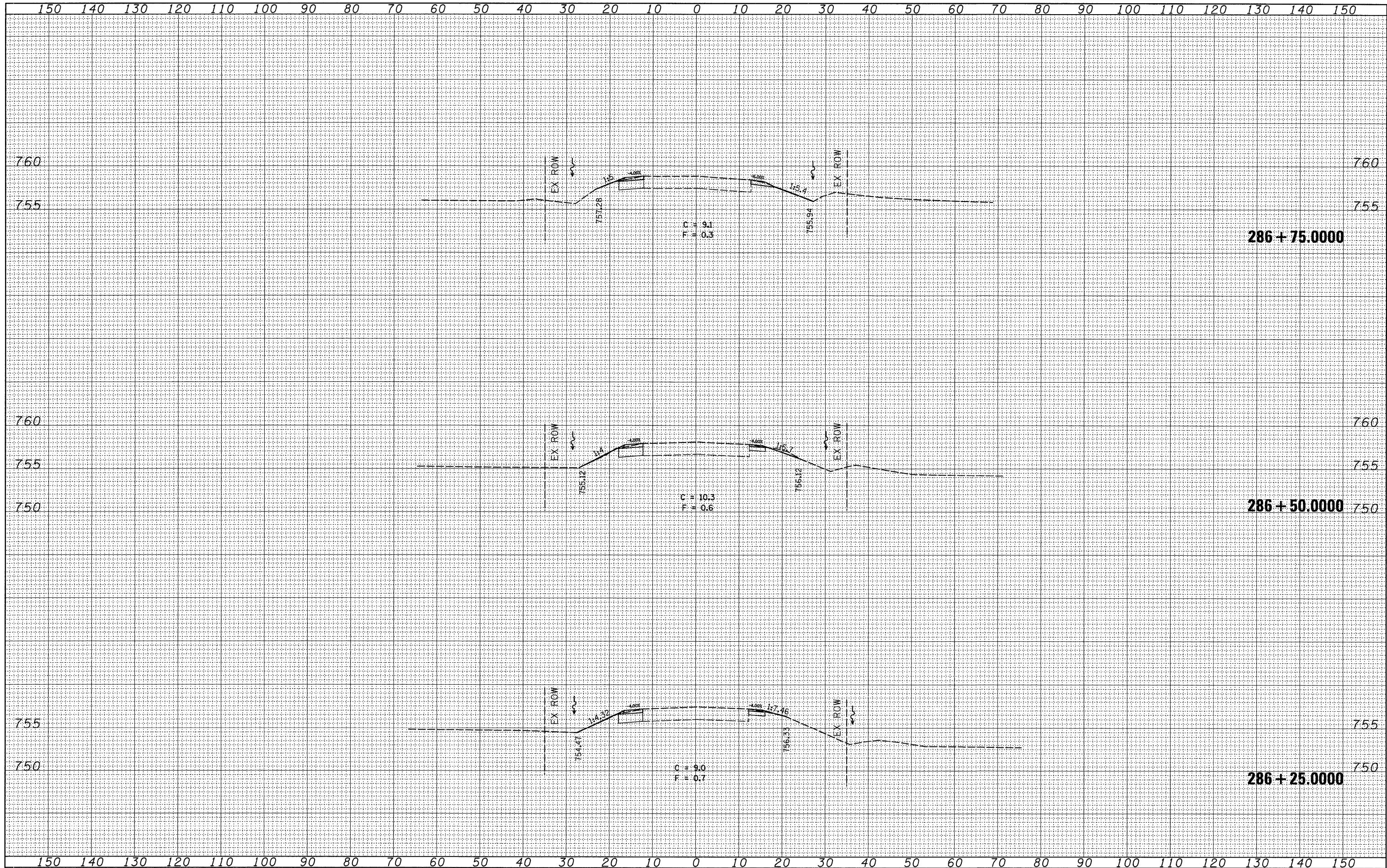
IL 81 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 285+00.0000 TO STA. 285+25.0000

F.A.P. RTE. 611	SECTION 102T	COUNTY HENRY	TOTAL SHEETS 41	SHEET NO. 38
CONTRACT NO. 64C70			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

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ORIGINAL SURVEY	
NOTE BOOK NO.	
PLOTTED	
TEMPLATE AREAS CHECKED	



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

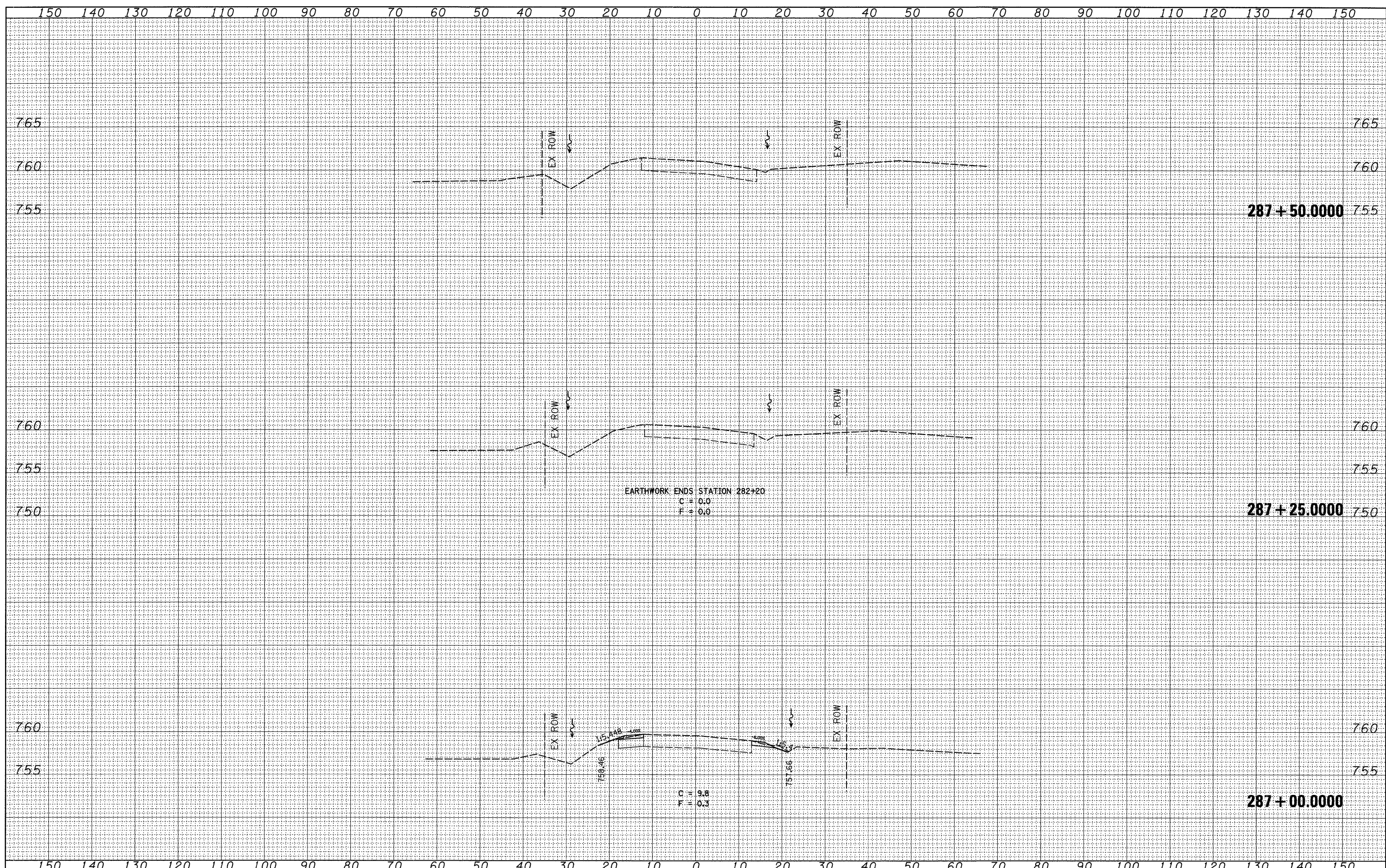
IL 81 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 286+25.0000 TO STA. 286+75.0000

F.A.P. RTE. 611	SECTION 102T	COUNTY HENRY	TOTAL SHEETS 41	SHEET NO. 40
CONTRACT NO. 64C70			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

DATE	
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SURVEYED	
PLOTTED	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL 81 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 287+00.0000 TO STA. 287+50.0000

F.A.P. RTE. 611	SECTION 102T	COUNTY HENRY	TOTAL SHEETS 41	SHEET NO. 41
CONTRACT NO. 64C70				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				