

SIUC RESEARCH PARK PHASE II

CARBONDALE, JACKSON COUNTY, ILLINOIS SECTION 05-00002-00-RP PROJECT HPP-2658(103) C-99-517-06

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	JACKSON	35	1
FED. ROAD DIST. NO. 9		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 99425

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
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- 14-16 EROSION CONTROL SHEETS
- 17-22 STRUCTURAL SHEETS
- 23-35 CROSS SECTIONS

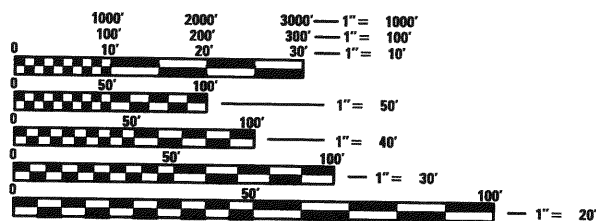
STANDARDS

000001-05	602301-02	701602-04
280001-05	602306-02	701901-01
420001-07	602401-02	780001-02
420101-04	604006-04	781001-03
515001-03	606001-04	BLR 10-6
542301-02	641006-01	

UTILITY OWNERS

SEE SHEET 2

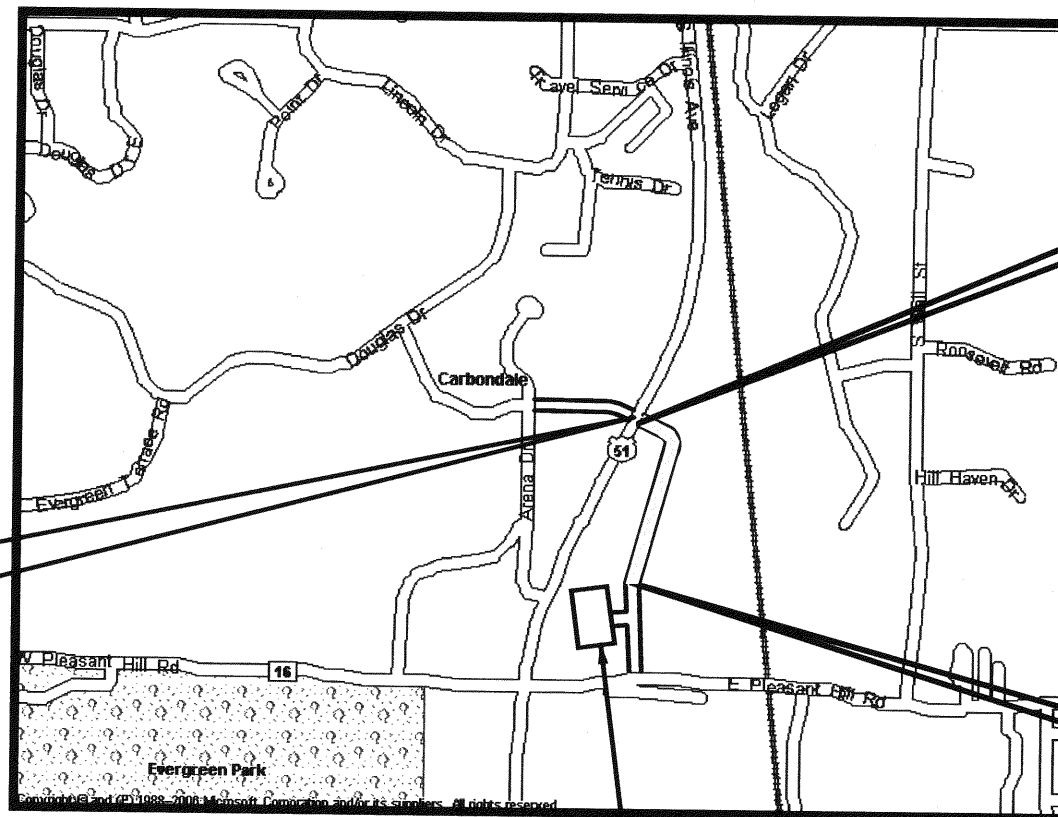
SCALES USED FOR VARIOUS PLAN SHEETS



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.

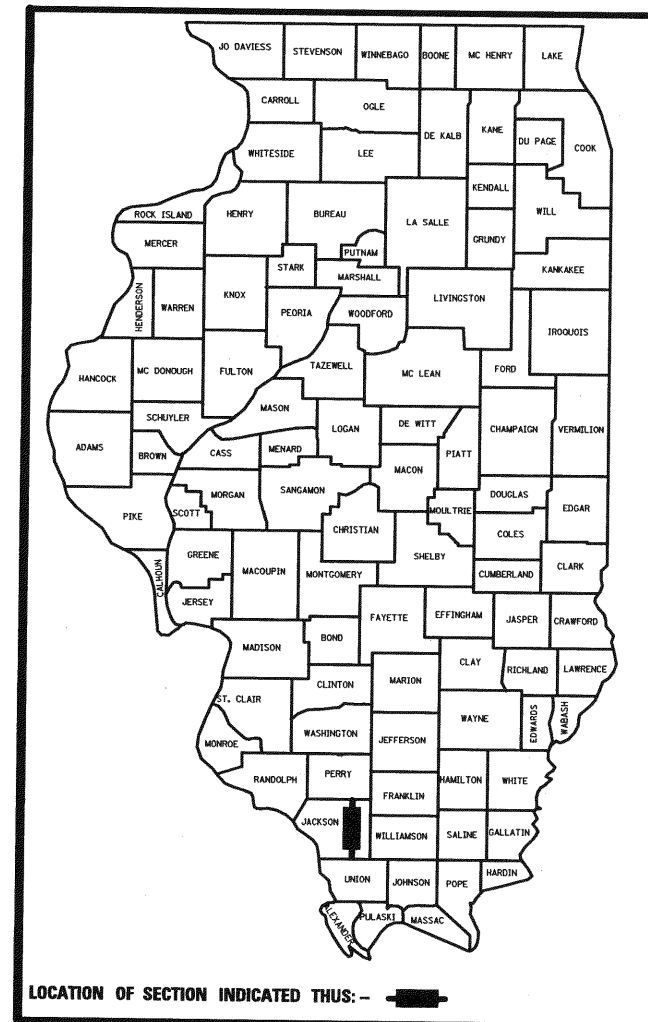
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 99425



LOCATION MAP

TOTAL LENGTH OF IMPROVEMENT = 1446.23 FEET = 0.274 MILES



DESIGN SPEED

URBAN 20 MPH

ROADWAY DESIGN DESIGNATION

LOCAL ROAD

DESIGN TRAFFIC

2010 ADT = 1,662

APPROVED *July 19 2010*
Scott Webb
SOUTHERN ILLINOIS UNIVERSITY CARBONDALE

PASSED *JUL 19 2010*
Danni W. Hille
DISTRICT 9 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW *July 19 2010*
Mary C. Lammie
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER



[Signature]
DATE 7-14-10
ILL PE 062-047531, MARK A. REITZ
LICENSE EXPIRES 12/31/2011
HURST-ROSCHKE ENGINEERS, INC

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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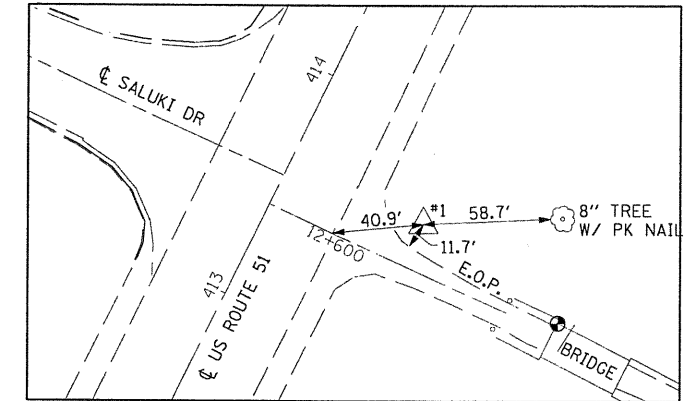
GENERAL NOTES

1. THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 AND THE SPECIAL PROVISIONS.
2. ALL STATIONING REFERS TO THE CENTERLINE OF NEW CONSTRUCTION.
3. THE LOCATIONS AND / OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM AVAILABLE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE TO J.U.L.I.E. @ (800) 892 - 0123.
4. DISPOSAL OF ALL MATERIAL FROM DEMOLITION (PAVEMENT REMOVAL, ETC.) SHALL BE INCLUDED IN THE CONTRACT AND PERFORMED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
5. 10 FT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
6. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
7. JOINTING PLAN SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARD BLR 10-6. TRANSVERSE JOINT SPACING SHALL BE TYPICALLY 15'. PAVEMENT JOINTING PLAN SHALL BE PROVIDED BY CONTRACTOR AND APPROVED BY THE ENGINEER.
8. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
10. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
11. THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

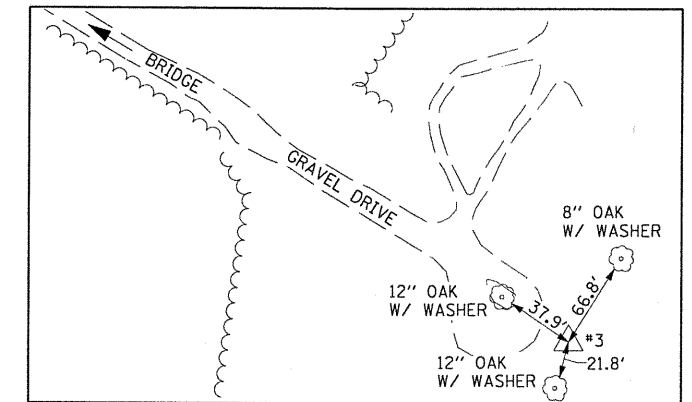
BENCHMARK

BM #2
CHISELED SQUARE ON THE NORTHWEST
CORNER OF EXISTING BRIDGE
STA 60+54.64, 2.42' LT ELEVATION = 415.78

REFERENCE TIES



CP 1 #5 REBAR HR 5 CAP
N:379625.45, E: 2571633.30
ELEVATION: 413.51



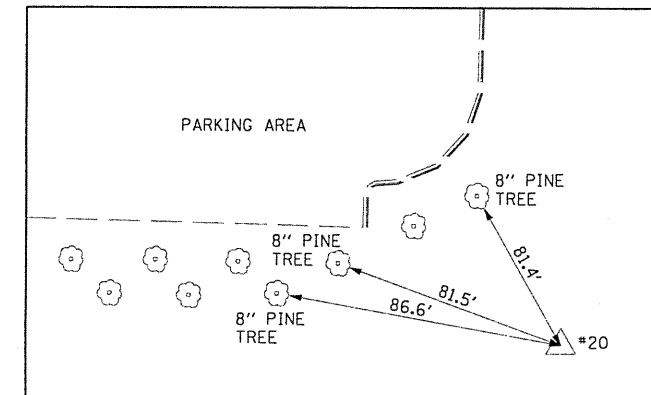
CP 3 60 D NAIL
N:379243.22, E: 2572211.19
ELEVATION: 429.36

UTILITY OWNERS

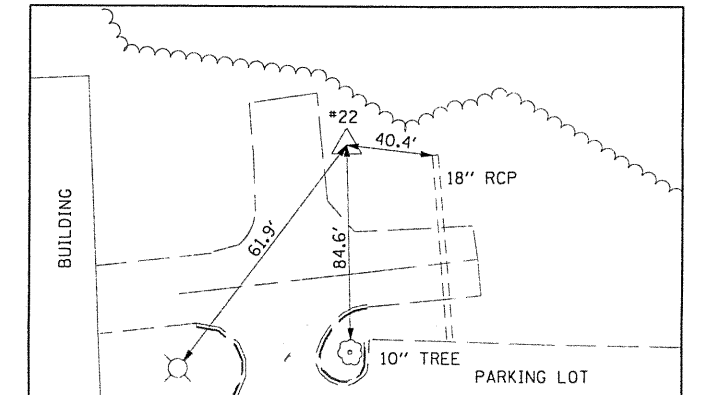
POWER/GAS:	AMEREN CIPS KAREN DIETDERICH (217) 234-0443	TELEPHONE:	MCI ART SHERIDAN (314) 298-6144
SEWER:	CITY OF CARBONDALE GARY BELLES (618) 549-5302 EXT. 270		VERIZON NORTH, INC. MARY RUTH WILLIS (309) 454-1470
WATER:	SOUTH HIGHWAY WATER DISTRICT CAROL BANKS (618) 529-5313	CABLE T.V.:	MEDIA COM RON GRANT (618) 993-5216 EXT. 221 360 NETWORKS HENRY KLO BUCAR (406) 496-6510

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05 TONS / CU YD
INCIDENTAL HMA RESURFACING	112 LBS / 50 YD / IN



CP 20 60 D NAIL
N:3783382.38, E: 2571965.67
ELEVATION: 458.44



CP 22 60 D NAIL
N:378695.18, E: 2571700.84
ELEVATION: 445.41

HURST-ROSCHKE ENGINEERS, INC.
HILLSBORO, ILLINOIS 62049
(217) 532-3959 FAX (217) 532-3212

HR
HURST-ROSCHKE
ENGINEERS, INC.

FILE NAME =	USER NAME = HURST-ROSCHKE	DESIGNED - JJC	REVISED -
\\365-4248-siuc-research-park-phase-11\gn\genmotse\dgn		DRAWN - UJ	REVISED -
		CHECKED - MAR	REVISED -
		DATE - 02-27-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	KANKAKEE	35	2
CONTRACT NO. 99425			FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNITS	TOTAL
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24
20100500	TREE REMOVAL, ACRES	ACRE	2.0
20200100	EARTH EXCAVATION	CJ YD	11295
20400800	FURNISHED EXCAVATION	CJ YD	5640
25000305	SEEDING, CLASS 3A	ACRE	2.0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	180
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180
25100115	MULCH, METHOD 2	ACRE	0.5
25100630	EROSION CONTROL BLANKET	SQ YD	6078
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	400
28000305	TEMPORARY DITCH CHECKS	FOOT	204
28000400	PERIMETER EROSION BARRIER	FOOT	2513
28000500	INLET AND PIPE PROTECTION	EACH	9
28100107	STONE RIPRAP, CLASS A4	SQ YD	702
28200200	FILTER FABRIC	SQ YD	702
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	4961
35101400	AGGREGATE BASE COURSE, TYPE B	TON	10
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	23
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	4
42000201	PORTLAND CEMENT CONCRETE PAVEMENT 7" (JOINTED)	SQ YD	4093
42001300	PROTECTIVE COAT	SQ YD	5064
44000100	PAVEMENT REMOVAL	SQ YD	311
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	432
44004250	PAVED SHOULDER REMOVAL	SQ YD	278
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	81
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CJ YD	1365
50300225	CONCRETE STRUCTURES	CJ YD	179.8
50300280	CONCRETE ENCASEMENT	CJ YD	18.2
50800105	REINFORCEMENT BARS	POUND	14305
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2885
X5091725	BICYCLE RAILING, SPECIAL	FOOT	72
51201600	FURNISHING STEEL PILES HP12x53	FOOT	1775
51202305	DRIVING PILES	FOOT	1775
51203600	TEST PILE STEEL HP12x53	EACH	2
51500100	NAME PLATES	EACH	1
54201105	PIPE CULVERTS, CLASS D, TYPE 2 60"	FOOT	264
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	7

CODE NO.	ITEM	UNITS	TOTAL
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	294
60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	8
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	7
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2751.0
64100115	SIGHT SCREEN (WOODEN FENCE), TYPE P 6'	FOOT	145
67100100	MOBILIZATION	L SUM	1
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1
78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	132
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4382
78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	236
78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	35
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	66
X0321156	HIGH VISIBILITY TEMPORARY FENCING	FOOT	1251
X0008399	THREE SIDED PRECAST CONCRETE STRUCTURES 36"x12'	FOOT	60

* SPECIALTY ITEM

HURST-ROSCHKE ENGINEERS, INC.
HILLSBORO, ILLINOIS 62049
(217)532-3959 FAX (217)532-3212



FILE NAME =	USER NAME = #USER#	DESIGNED - JJC	REVISED -
#FILE#		DRAWN - UJ	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - MAR	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

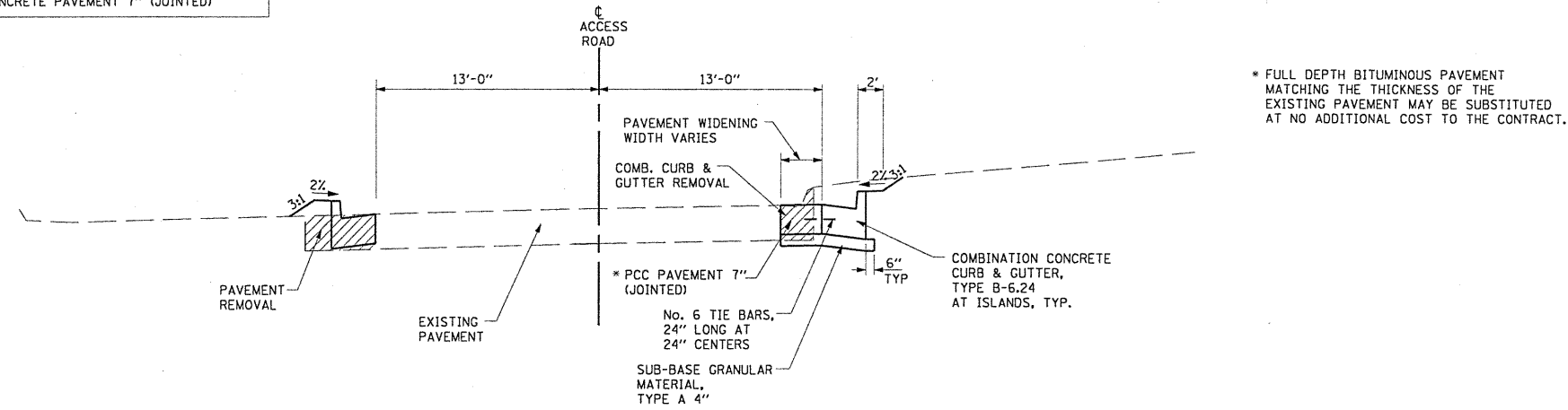
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

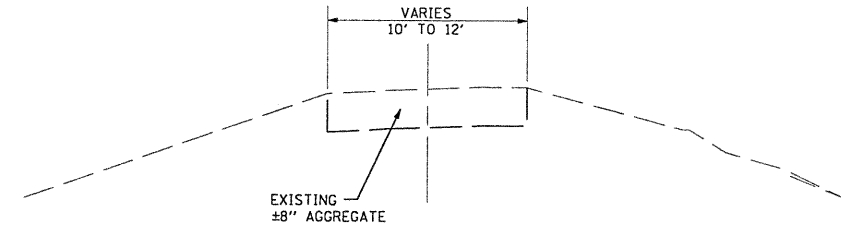
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	CHAMPAIGN	35	3
CONTRACT NO. 99425				
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				

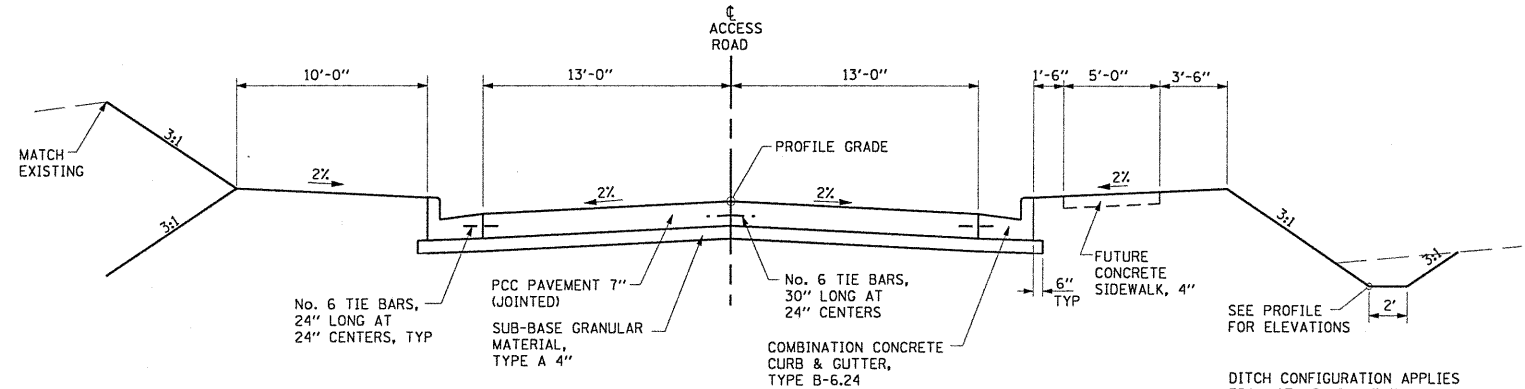
THE COST OF TIE BARS SPECIFIED SHALL BE INCLUDED IN THE UNIT COST PER SQUARE YARD FOR PORTLAND CEMENT CONCRETE PAVEMENT 7" (JOINTED)



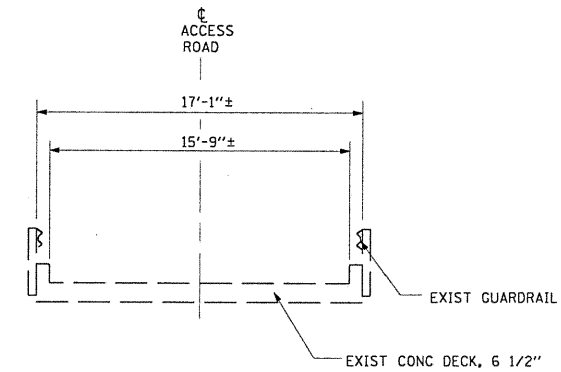
**TYPICAL URBAN ROADWAY SECTION
STA 47+08.77 TO STA 50+20.00**



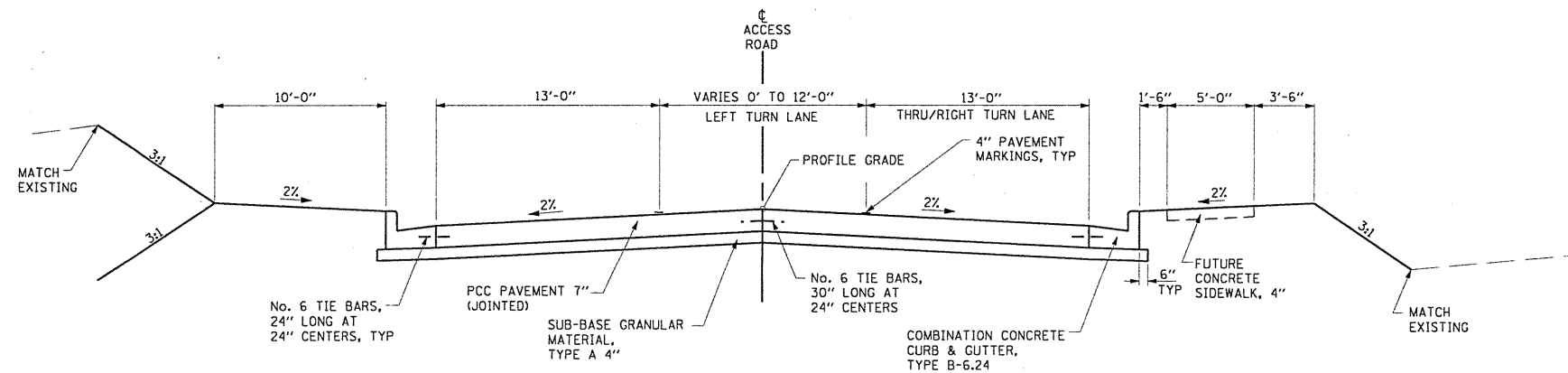
**TYPICAL EXISTING ROADWAY SECTION
STA 58+00.00 TO STA 61+40.00**



**TYPICAL URBAN ROADWAY SECTION
STA 50+20.00 TO STA 58+75.00**



TYPICAL EXISTING BRIDGE SECTION



**TYPICAL URBAN ROADWAY SECTION
STA 58+75.00 TO STA 61+55.00**

FILE NAME =	USER NAME = HURST-ROSCHE	DESIGNED - JJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U:\365-4848-SIUC_Research_Park_Phase.II\gn\typical.dgn	DRAWN - TWC	REVISED -	05-00002-00-RP					JACKSON	35	4		
PLOT SCALE = 1/8" = 1' IN.	CHECKED - MAR	REVISED -	CONTRACT NO. 99425									
PLOT DATE = 7/13/2010	DATE -	REVISED -	SCALE: NO SCALE		SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

TREE REMOVAL (OVER 15 UNITS DIAMETER)			
Access Road	Side	Offset	UNIT
Station 60+91.00	Lt	27'	24
Total			24

TREE REMOVAL, ACRES			
Access Road	Sta	Rt/Lt	ACRES
50+25.00	58+40.00	Rt/Lt	2.0
Total			2.0

TEMPORARY EROSION CONTROL SEEDING				
Access Road	Acres	lb/acre	Applications	POUND
	2.0	100	2	400
Total				400

FILTER FABRIC			
Access Road	Side	Structure	SQ YD
Sta 56+42.00	RT		44
56+42.00	Lt		37
Total			702

PROTECTIVE COAT		
Access Road	DESCRIPTION	SQ YD
	PORTLAND CEMENT CONCRETE PAVEMENT 7" (JOINTED)	4093
	COMBINATION CONCRETE CURB AND GUTTER	941
	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	29
Total		5064

EARTHWORK SCHEDULE						
Location	From	To	Earth Excavation Cubic Yard	Excavation to be used in Embankment** Cubic Yard	Embankment Cubic Yard	Earthwork Balance** Cubic Yard
Access Road						
	47+56.38	47.94.47	0	0	52	-52
	47+09.00	61+55.00	11292	8469	14058	-5589
TOTAL			11292	8469	14110	-5641
USE			11295		USE	5640

• Adjusted for Shrinkage (25% Shrinkage Assumed)
 ** Waste (+) or Shortage (-)

SEEDING, CLASS 3A				
Access Road	Sta	Side	ACRE	
47+56.38	to 47.94.47	Lt	0.03	
50+20.00	to 61+55.00	Lt	0.96	
50+20.00	to 61+55.00	Rt	0.98	
Total				2.0

MULCH, METHOD 2				
Access Road	Sta	Side	ACRE	
47+56.38	to 47.94.47	Lt	0.03	
50+20.00	to 61+55.00	Lt	0.26	
50+20.00	to 61+55.00	Rt	0.27	
Total				0.55
Use				0.5

EROSION CONTROL BLANKET				
Access Road	Sta	Side	SO YD	
50+50.00	to 60+10.00	Rt	3040	
60+60.00	to 61+16.00	Rt	121	
50+77.00	to 60+08.00	Lt	2813	
60+57.00	to 61+35.00	Lt	105	
Total				6078

TEMPORARY DITCH CHECKS				
Access Road	Station	Side	Offset	FOOT
	52+00.00	Rt	54'	12
	52+50.00	Rt	49'	12
	53+00.00	Rt	45'	12
	54+00.00	Rt	36'	12
	54+50.00	Rt	32'	12
	55+00.00	Rt	31'	12
	55+50.00	Rt	31'	12
	53+70.00	Lt	31'	12
	53+90.00	Lt	31'	12
	54+10.00	Lt	31'	12
	54+30.00	Lt	31'	12
	54+50.00	Lt	31'	12
	54+70.00	Lt	31'	12
	54+90.00	Lt	31'	12
	55+10.00	Lt	31'	12
	55+30.00	Lt	31'	12
	55+50.00	Lt	31'	12
Total				204

PERIMETER EROSION BARRIER				
Access Road	Station	Side	FOOT	
	50+30.00	to 58+13.00	Rt	910
	58+32.00	to 61+40.00	Rt	395
	50+03.00	to 61+40.00	Lt	1208
Total				2513

INLET AND PIPE PROTECTION				
Access Road	Station	Side	Offset	EACH
	51+00.00	Lt	39'	1
	53+50.00	Rt	36'	1
	56+00.00	Lt	36'	1
	56+60.00	Rt	65'	2
	57+50.00	Lt	38'	1
	58+90.00	Lt	36'	1
	61+00.00	Lt	50'	1
	61+00.00	Rt	44'	1
Total				9

STONE RIPRAP, CLASS A4			
Access Road	Sta	Side	SO YD
	56+42.00	RT	44
	56+42.00	Lt	37
	Structure		621
Total			702

SUB-BASE GRANULAR MATERIAL, TYPE A 4"				
Access Road	Sta	Side	SO YD	
	47+08.77	to 48+08.58	Rt	86.3
	48+33.62	to 48+74.96	Rt	27.7
	49+02.28	to 49+39.72	Rt	27.2
	49+83.64	to 49+95.54	Rt	36.3
	50+20.00	to 50+43.80	Lt	193.4
	50+43.80	to 58+75.00		95.5
	58+75.00	to 60+10.00		2971.1
	60+10.00	to 60+57.60		572.6
	60+57.60	to 61+55.00		233.6
Total				4981

AGGREGATE BASE COURSE, TYPE B					
Access Road	Station	Side	Depth (in)	Area (sq ft)	TON
	58+20.00	Rt	8	202	10
Total					10

AGGREGATE SURFACE COURSE, TYPE A					
Access Road	Station	Side	Depth (in)	Area(Sqft)	TON
	58+20.00	Rt	6	611	23
Total					23

INCIDENTAL HOT-MIX ASPHALT SURFACING					
Access Road	Station	Side	Depth (in)	Area (sq ft)	TON
	58+20.00	Rt	3	202	4
Total					4

PORTLAND CEMENT CONCRETE PAVEMENT 7" (JOINTED)				
Access Road	Sta	Side	SO YD	
	47+08.77	to 48+08.58	Rt	50.9
	48+33.62	to 48+74.96	Rt	9.3
	49+02.28	to 49+39.72	Rt	9.4
	49+83.64	to 49+95.54	Rt	14.5
	50+20.00	to 50+43.80	Lt	183.7
	50+43.80	to 58+75.00		83.1
	58+75.00	to 60+10.00		2401.2
	60+10.00	to 60+57.60		480.0
	60+57.60	to 61+55.00		201.0
Total				4093

PAVEMENT REMOVAL			
Access Road	Sta	Side	SO YD
	47+56.38	to 47+94.47	Lt 109
	50+12.00	to 50+68.00	Lt 202
Total			311

COMBINATION CURB AND GUTTER REMOVAL				
Access Road	Sta	Side	FOOT	
	47+09.00	to 48+07.00	Rt	120
	47+56.00	to 48+74.00	Rt	65
	48+32.00	to 48+95.00	Lt	110
	49+00.00	to 49+40.00	Rt	60
	48+32.00	to 48+74.00	Rt	77
Total				432

PAVED SHOULDER REMOVAL			
Access Road	Sta	Area(Sq ft)	SO YD
	61+40.00	2503	278
Total			278

HOT-MIX ASPHALT SHOULDERS, 8"			
Access Road	Sta	Side	SO YD
	61+55.00	Rt	559
	61+55.00	Lt	171
Total			81

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"				
Access Road	Station	Side	Offset	EACH
	51+00.00	Lt	35'	1
	53+50.00	Rt	33'	1
	56+00.00	Lt	33'	1
	57+50.00	Lt	40'	1
	58+90.00	Lt	55.6'	1
	61+00.00	Lt	46.4'	1
	61+00.00	Rt	41.3'	1
Total				7

HURST-ROSCHKE ENGINEERS, INC.
 HILLSBORO, ILLINOIS 62049
 (217)532-3959 FAX (217)532-3212



FILE NAME =	USER NAME = HURST-ROSCHKE	DESIGNED - JJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SCHEDULE OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ta\365-4048-SIUC_Research_Park_Phase.II\N	gn\SCHEDULE.dgn	DRAWN - UJ	REVISED -						05-00002-00-RP	JACKSON	35	5	
	PLOT SCALE = 1/8" = 1'-0"	CHECKED - MAR	REVISED -										CONTRACT NO. 99425
	PLOT DATE = 7/13/2010	DATE -	REVISED -										FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT
SCALE:		SHEET NO. OF SHEETS STA. TO STA.											

SCHEDULE OF QUANTITIES

PIPE CULVERTS, CLASS D, TYPE 2 60"		FOOT
Access Road	Station	
	56+60.00	264
Total		264

SIGHT SCREEN (WOODEN FENCE), TYPE P 6'			FOOT
Access Road	Station	Side	
	50+33.00	Lt	145
Total			145

STORM SEWERS, CLASS A, TYPE 1 12"				FOOT
Access Road	Station	Side		
	51+00.00			46
	53+50.00			44
	56+00.00			44
	57+50.00			46
	58+90.00			42
	58+90.00	59+00.00	Rt/Lt	16
	61+00.00		Rt/Lt	40
	61+00.00	61+10.00	Rt/Lt	16
Total				294

PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS				SO FT
Access Road	Each	Sq Ft		
	LEFT TURN ARROWS	1	8.8	9
	Only Symbols	1	11.8	12
	RIGHT TURN/THRU ARROWS	1	14.7	15
<i>US Route 51</i>				
	LEFT TURN ARROWS	4	8.8	35
	Only Symbols	4	11.8	47
	RIGHT TURN/THRU ARROWS	1	14.7	15
Total				132

MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE			EACH
Access Road	Side		
Station	Lt		1
58+90.00			
Total			1

PAINT PAVEMENT MARKING - LINE 4"					FOOT
Access Road	Sta	Side	Type		
	50+44.00	to 58+75.00	Cl	Yellow	208
	58+75.00	to 61+25.00	Lt	Yellow	500
	60+10.00	to 61+25.00	Rt	White	115
	58+75.00	to 60+10.00	Rt	Yellow	34
<i>US Route 51</i>					
	408+15.00	to 413+10.00	Lt	Yellow	990
	408+15.00	to 410+55.00	Rt	Yellow	480
	408+15.00	to 410+55.00	Rt	White	60
	410+55.00	to 413+10.00	Rt	White	255
	414+05.00	to 416+45.00	Lt	White	240
	414+05.00	to 418+85.00	Rt	Yellow	960
	416+45.00	to 418+85.00	Rt	Yellow	480
	416+45.00	to 418+85.00	Rt	Yellow	60
Total					4382

INLETS, TYPE A, TYPE 3 FRAME AND GRATE			EACH
Access Road	Sta	Side	
	51+00.00	Rt	1
	53+50.00	Lt	1
	56+00.00	Rt	1
	57+50.00	Rt	1
	59+00.00	Rt/Lt	2
	61+10.00	Rt/Lt	2
Total			8

PAINT PAVEMENT MARKING - LINE 8"				FOOT
US Route 51	Sta	Type		
	408+15.00	to 410+50.00	Yellow	104
	416+50.00	to 418+85.00	Yellow	132
Total				236

INLETS, TYPE B, TYPE 3 FRAME AND GRATE			EACH
Access Road	Sta	Side	
	51+00.00	Lt	1
	53+50.00	Rt	1
	56+00.00	Lt	1
	57+50.00	Lt	1
	58+90.00	Rt	1
	61+00.00	Rt/Lt	2
Total			7

PAINT PAVEMENT MARKING - LINE 24"			FOOT
Access Road	Station		
	61+25.00		35
Total			35

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24				FOOT
Access Road	Station	Side		
	47+08.77	to 48+08.58	Rt	106.0
	47+56.38	to 47+94.47	Lt	158.0
	48+33.62	to 48+74.96	Rt	58.0
	49+02.28	to 49+39.72	Rt	57.0
	49+64.84	to 49+95.54	Rt	71.0
	50+29.39	to 61+46.00	Rt	1166.0
	50+30.45	to 61+50.00	Lt	1135.0
Total				2751.0

HIGH VISIBILITY TEMPORARY FENCING		FOOT
Access Road		
Wetland Site 3		611
Wetland Site 2		640
Total		1251

RAISED REFLECTIVE PAVEMENT MARKER				EACH
Access Road	Sta	Side	Type	
	408+30.00	Lt/Rt	ONE WAY AMBER	2
	408+70.00	Lt/Rt	ONE WAY AMBER	2
	409+10.00	Lt/Rt	ONE WAY AMBER	2
	409+50.00	Lt/Rt	ONE WAY AMBER	2
	409+90.00	Lt	ONE WAY AMBER	2
	410+30.00	Lt	ONE WAY AMBER	2
	410+70.00	Lt	TWO WAY AMBER	2
	410+70.00	Rt	ONE WAY CRYSTAL	1
	411+10.00	Lt	TWO WAY AMBER	2
	411+10.00	Rt	ONE WAY CRYSTAL	1
	411+50.00	Lt	TWO WAY AMBER	2
	411+50.00	Rt	ONE WAY CRYSTAL	1
	411+90.00	Lt	TWO WAY AMBER	2
	411+90.00	Rt	ONE WAY CRYSTAL	1
	412+30.00	Lt	TWO WAY AMBER	2
	412+30.00	Rt	ONE WAY CRYSTAL	1
	412+70.00	Lt	TWO WAY AMBER	2
	412+70.00	Rt	ONE WAY CRYSTAL	1
	413+10.00	Lt	TWO WAY AMBER	2
	413+10.00	Rt	ONE WAY CRYSTAL	1
	414+05.00	Rt	TWO WAY AMBER	2
	414+05.00	Lt	ONE WAY CRYSTAL	1
	414+45.00	Rt	TWO WAY AMBER	2
	414+45.00	Lt	ONE WAY CRYSTAL	1
	414+85.00	Rt	TWO WAY AMBER	2
	414+85.00	Lt	ONE WAY CRYSTAL	1
	415+25.00	Rt	TWO WAY AMBER	2
	415+25.00	Lt	ONE WAY CRYSTAL	1
	415+65.00	Rt	TWO WAY AMBER	2
	415+65.00	Lt	ONE WAY CRYSTAL	1
	416+05.00	Rt	TWO WAY AMBER	2
	416+05.00	Lt	ONE WAY CRYSTAL	1
	416+45.00	Rt	TWO WAY AMBER	2
	416+45.00	Lt	ONE WAY CRYSTAL	1
	416+85.00	Rt	ONE WAY AMBER	2
	417+25.00	Lt/Rt	ONE WAY AMBER	2
	417+65.00	Lt/Rt	ONE WAY AMBER	2
	418+05.00	Lt/Rt	ONE WAY AMBER	2
	418+45.00	Lt/Rt	ONE WAY AMBER	2
	418+85.00	Lt/Rt	ONE WAY AMBER	2
Total				66

HURST-ROSCHE ENGINEERS, INC.
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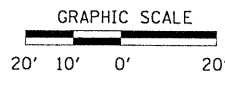
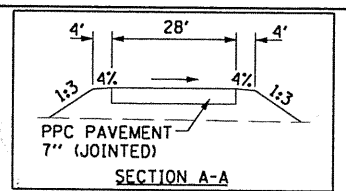


FILE NAME =	USER NAME = HURST-ROSCHE	DESIGNED - JJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
tt:\365-404B_S1UC_Research_Park_Phase.II\Ngn\SCHEDULE.dgn		DRAWN - UJ	REVISED -				05-00002-00-RP	JACKSON	35	6	
		CHECKED - MAR	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 99425			
		DATE -	REVISED -			FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT					

PROP. CURVE A1
 PI STA. = 46+72.58
 $\Delta = 20^\circ 15' 27''$ (LT)
 $D = 20^\circ 27' 46''$
 $R = 280.00'$
 $T = 50.02'$
 $L = 99.00'$
 $E = 4.43'$
 P.C. STA = 46+22.56
 P.T. STA = 47+21.56

PROP. CURVE A3
 PI STA. = 49+87.42
 $\Delta = 9^\circ 02' 13''$ (LT)
 $D = 12^\circ 43' 57''$
 $R = 450.00'$
 $T = 35.56'$
 $L = 70.98'$
 $E = 1.40'$
 P.C. STA = 49+51.85
 P.T. STA = 50+22.83

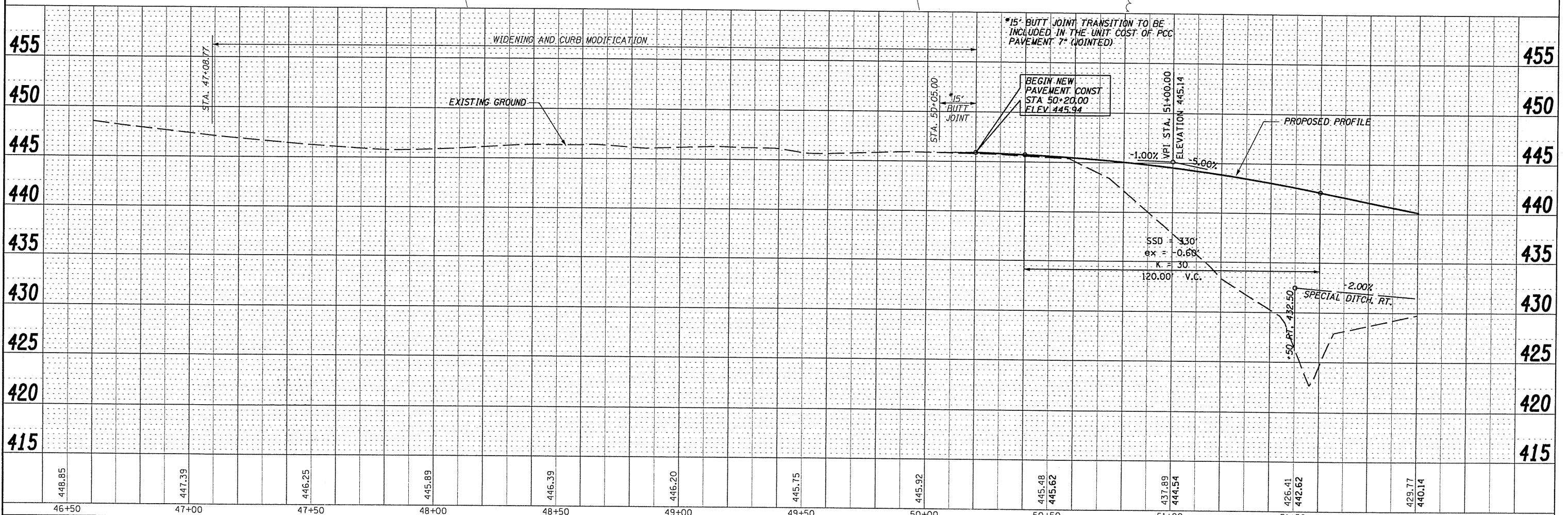
PROP. CURVE A2
 PI STA. = 47+95.06
 $\Delta = 38^\circ 07' 40''$ (RT)
 $D = 27^\circ 56' 57''$
 $R = 205.00'$
 $T = 70.84'$
 $L = 136.42'$
 $E = 11.90'$
 P.C. STA = 47+24.22
 P.T. STA = 48+60.64



DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

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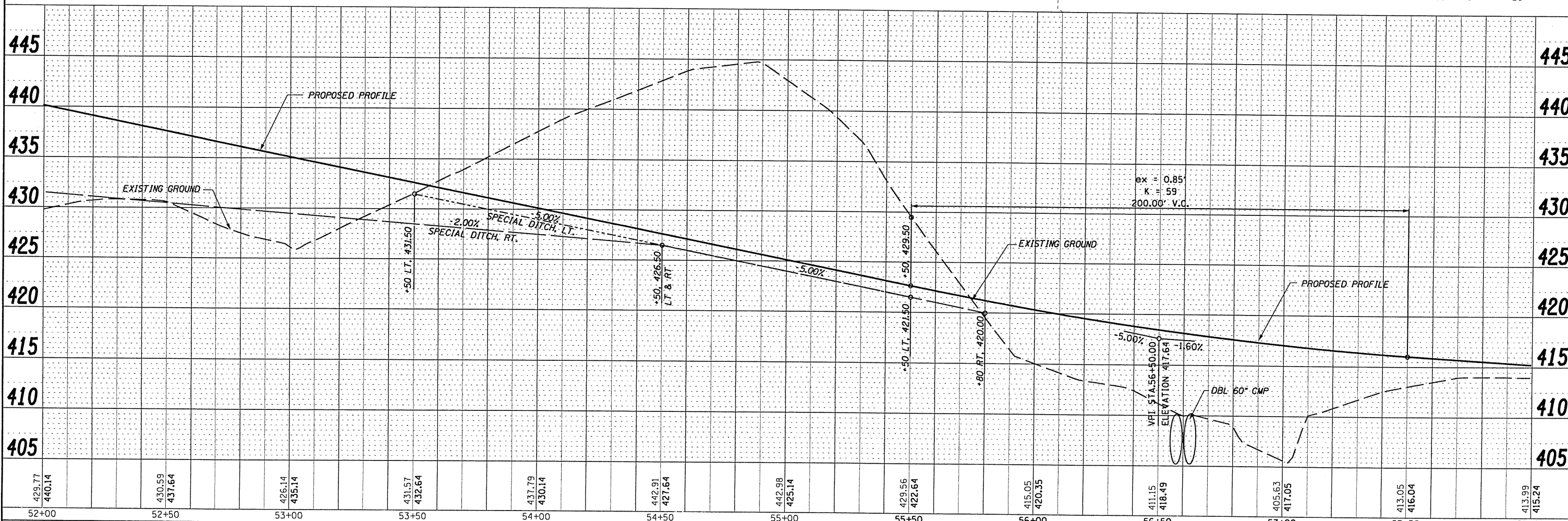
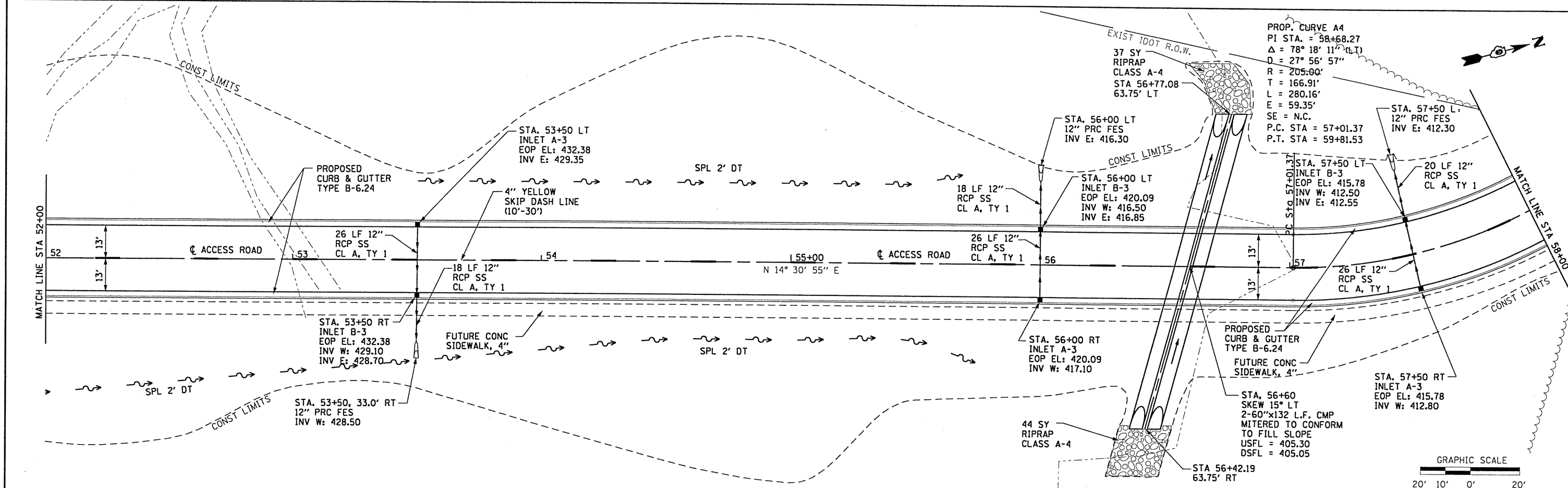
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PLOT SCALE = 48.828' / IN.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 99425				
PLOT DATE = 7/13/2010	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				

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

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

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429.77	440.14	430.59	437.64	426.14	435.14	431.57	432.64	437.79	430.14	442.91	427.64	442.98	425.14	429.56	422.64	415.05	420.35	411.15	418.49	405.63	417.05	413.05	416.04	413.99	415.24
52+00	52+50	53+00	53+50	54+00	54+50	55+00	55+50	56+00	56+50	57+00	57+50	58+00													

FILE NAME = ts\365-4048_SIUC_Research_Park_Phase_1\11\02\p&p02.dgn
 USER NAME = HURST-ROSCHE
 PLOT SCALE = 40.000' / IN.
 PLOT DATE = 7/13/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
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 REVISED -

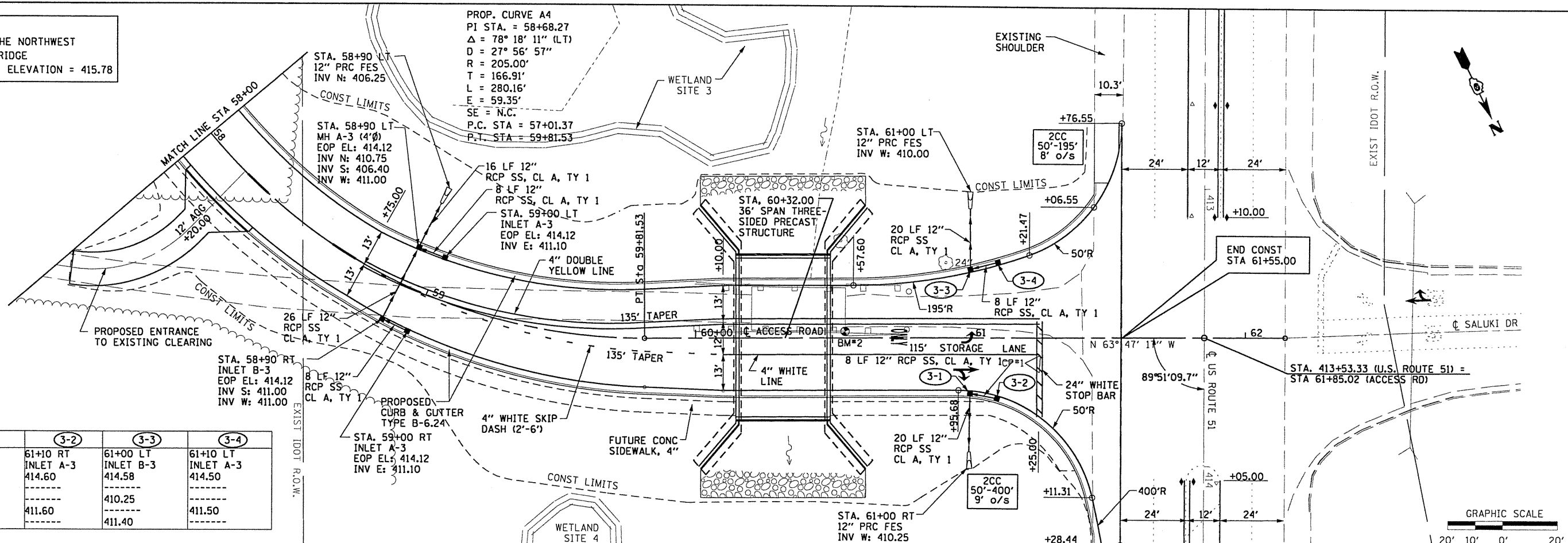
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED PLAN AND PROFILE
 SCALE: 1:20 SHEET NO. 2 OF 4 SHEETS STA. 52+00 TO STA. 58+00

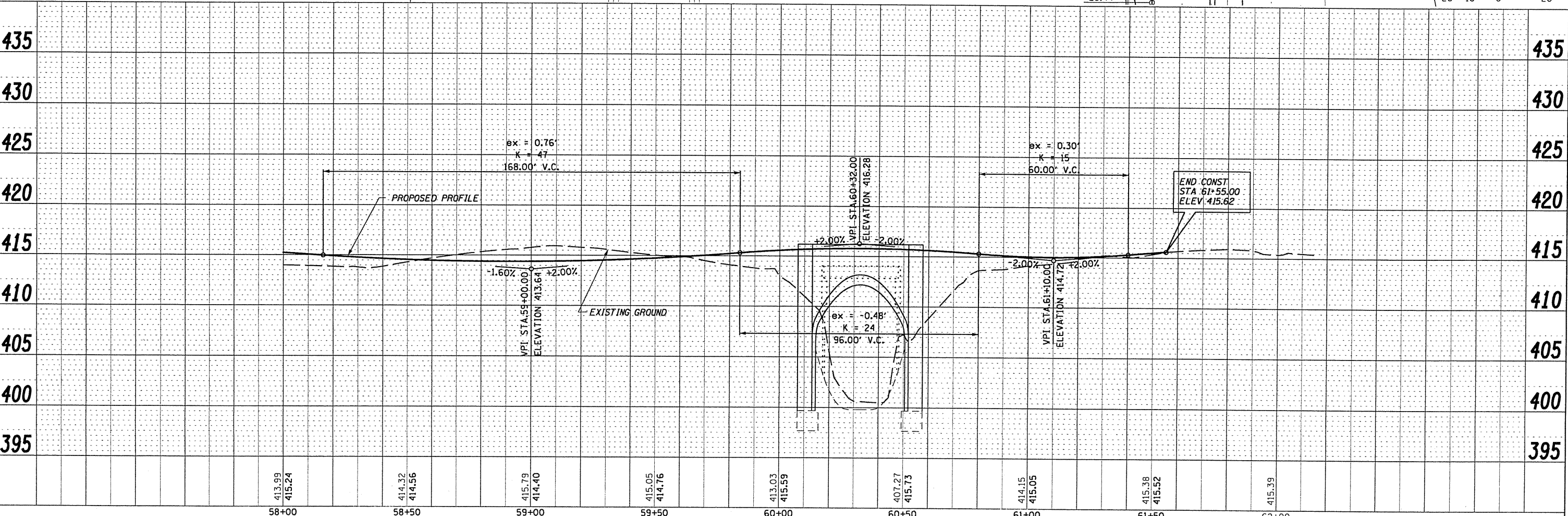
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	JACKSON	35	8
CONTRACT NO. 99425			FED. ROAD DIST. NO. 9 [ILLINOIS] FED. AID PROJECT	

BM #2
CHISELED SQUARE ON THE NORTHWEST
CORNER OF EXISTING BRIDGE
STA 60+54.64, 2.42' LT ELEVATION = 415.78

PROP. CURVE A4
PI STA. = 58+68.27
 $\Delta = 78^\circ 18' 11''$ (LT)
D = 27' 56' 57"
R = 205.00'
T = 166.91'
L = 280.16'
E = 59.35'
SE = N.C.
P.C. STA = 57+01.37
P.T. STA = 59+81.53



STRUCTURE NO.	3-1	3-2	3-3	3-4
STATION	61+00 RT	61+10 RT	61+00 LT	61+10 LT
TYPE	INLET B-3	INLET A-3	INLET B-3	INLET A-3
TOP/EOP EL	414.67	414.60	414.58	414.50
INV EL N.	410.45			
INV EL S.			410.25	
INV EL E.		411.60		411.50
INV EL W.	411.50		411.40	



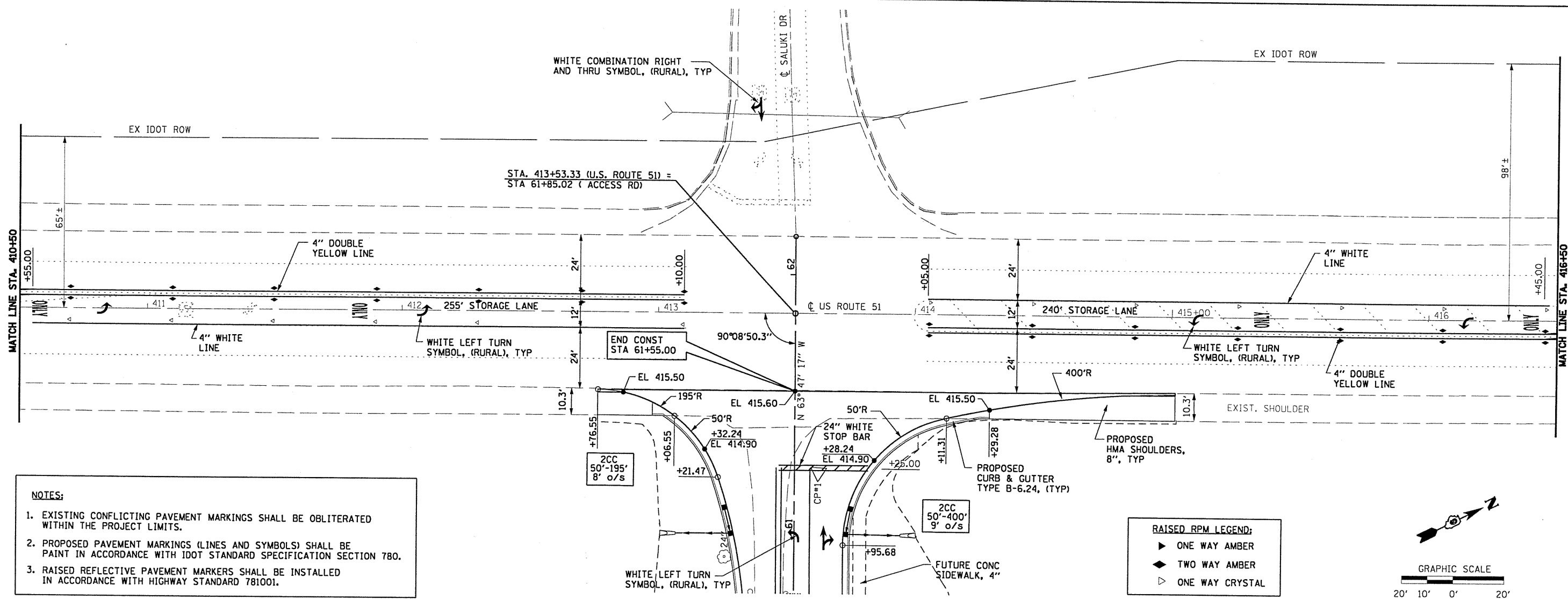
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PLOT SCALE = 40.000' / 1"	PLOT DATE = 7/13/2010	CHECKED -	REVISED -	STA. 58+00 TO STA. 61+50		CONTRACT NO. 99425		FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				

DATE: _____
BY: _____
CHECKED: _____
DATE: _____

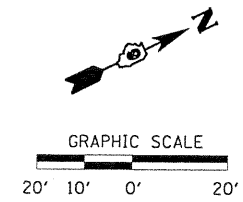
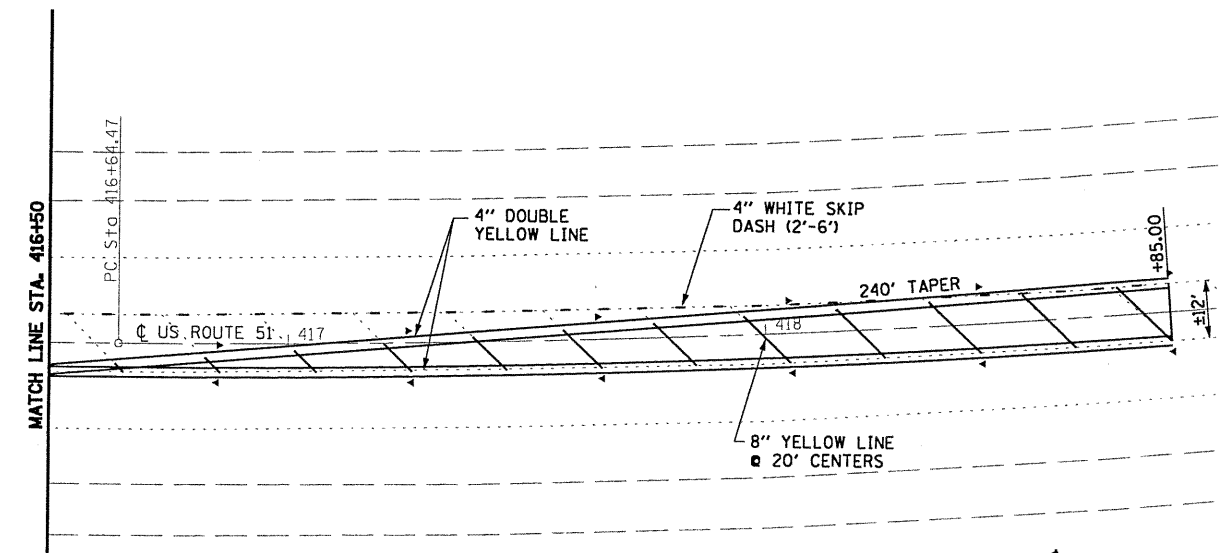
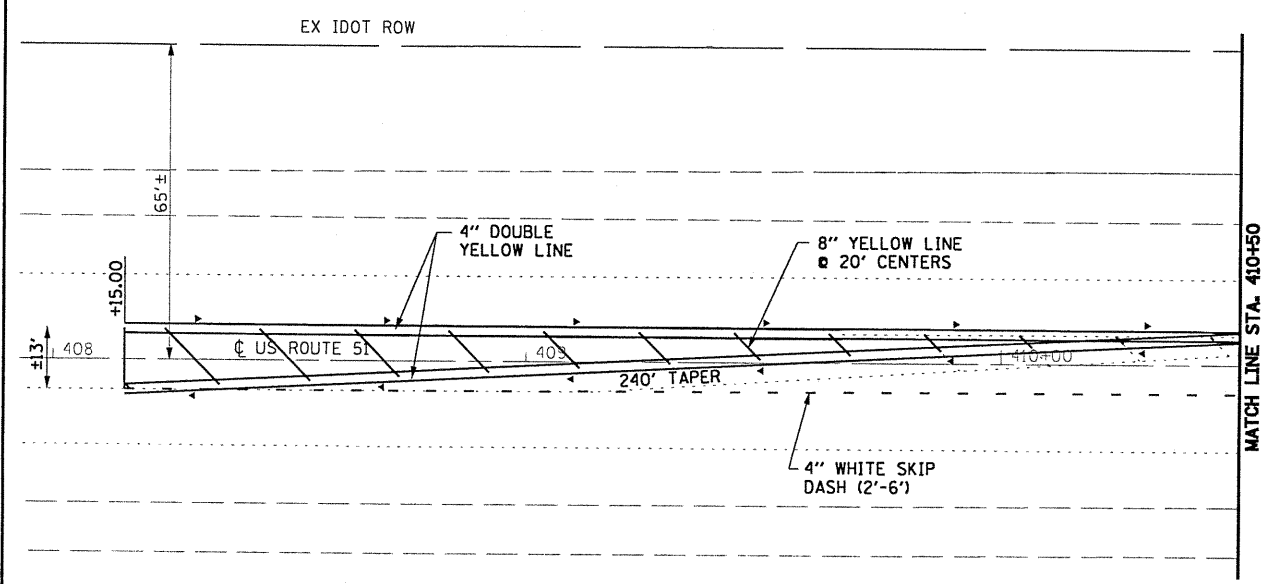
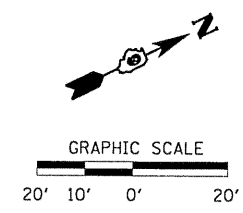
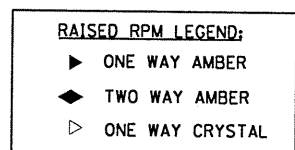
DATE: _____
BY: _____
CHECKED: _____
DATE: _____

HURST-ROSCH ENGINEERS, INC.
HILLSBORO, ILLINOIS 62049
(217) 532-3959 FAX (217) 532-3212

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- NOTES:**
- EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE OBLITERATED WITHIN THE PROJECT LIMITS.
 - PROPOSED PAVEMENT MARKINGS (LINES AND SYMBOLS) SHALL BE PAINT IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION SECTION 780.
 - RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH HIGHWAY STANDARD 781001.



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FILE NAME =	USER NAME = HURST-ROSCHÉ	DESIGNED -	REVISED -
\\365-4048.SIUC.Research.Park.Phase.II\gn\p&p04.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN SHEET - US ROUTE 51

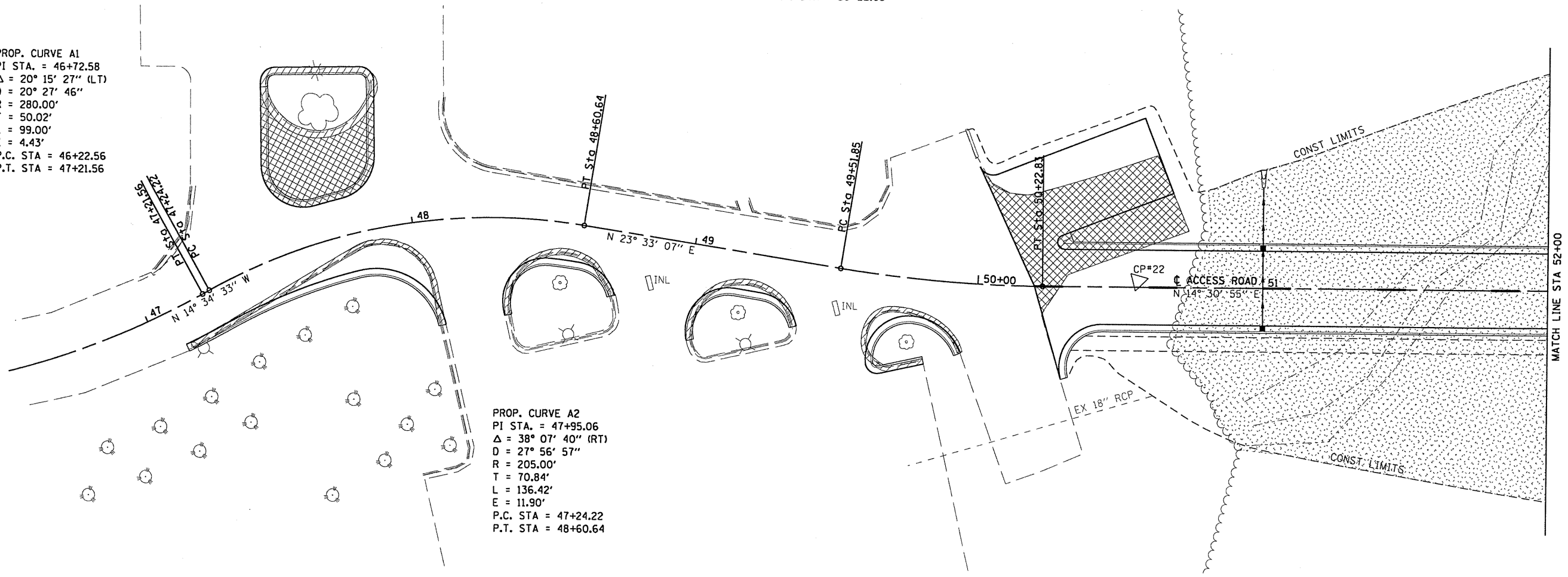
SCALE: 1"=20' SHEET NO. 4 OF 4 SHEETS STA. 412+00 TO STA. 418+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-0002-00-RP	JACKSON	35	10
CONTRACT NO. 99425				
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				





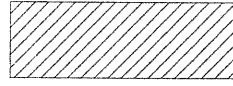
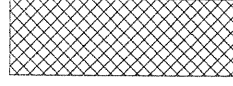
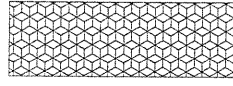
PROP. CURVE A3
 PI STA. = 49+87.42
 $\Delta = 9^\circ 02' 13''$ (LT)
 D = 12° 43' 57"
 R = 450.00'
 T = 35.56'
 L = 70.98'
 E = 1.40'
 P.C. STA = 49+51.85
 P.T. STA = 50+22.83

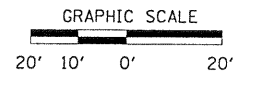
PROP. CURVE A1
 PI STA. = 46+72.58
 $\Delta = 20^\circ 15' 27''$ (LT)
 D = 20° 27' 46"
 R = 280.00'
 T = 50.02'
 L = 99.00'
 E = 4.43'
 P.C. STA = 46+22.56
 P.T. STA = 47+21.56



PROP. CURVE A2
 PI STA. = 47+95.06
 $\Delta = 38^\circ 07' 40''$ (RT)
 D = 27° 56' 57"
 R = 205.00'
 T = 70.84'
 L = 136.42'
 E = 11.90'
 P.C. STA = 47+24.22
 P.T. STA = 48+60.64

LEGEND

-  TREE REMOVAL
-  TREE REMOVAL, ACRES
-  COMBINATION CURB AND GUTTER REMOVAL
-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL



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FILE NAME =	USER NAME = HURST-ROSCHKE	DESIGNED - JJC	REVISED -
ti\365-4048_suc_research_park_phase.1\dgn\remov21.dgn		DRAWN - UJ	REVISED -
		CHECKED - MAR	REVISED -
		DATE -	REVISED -

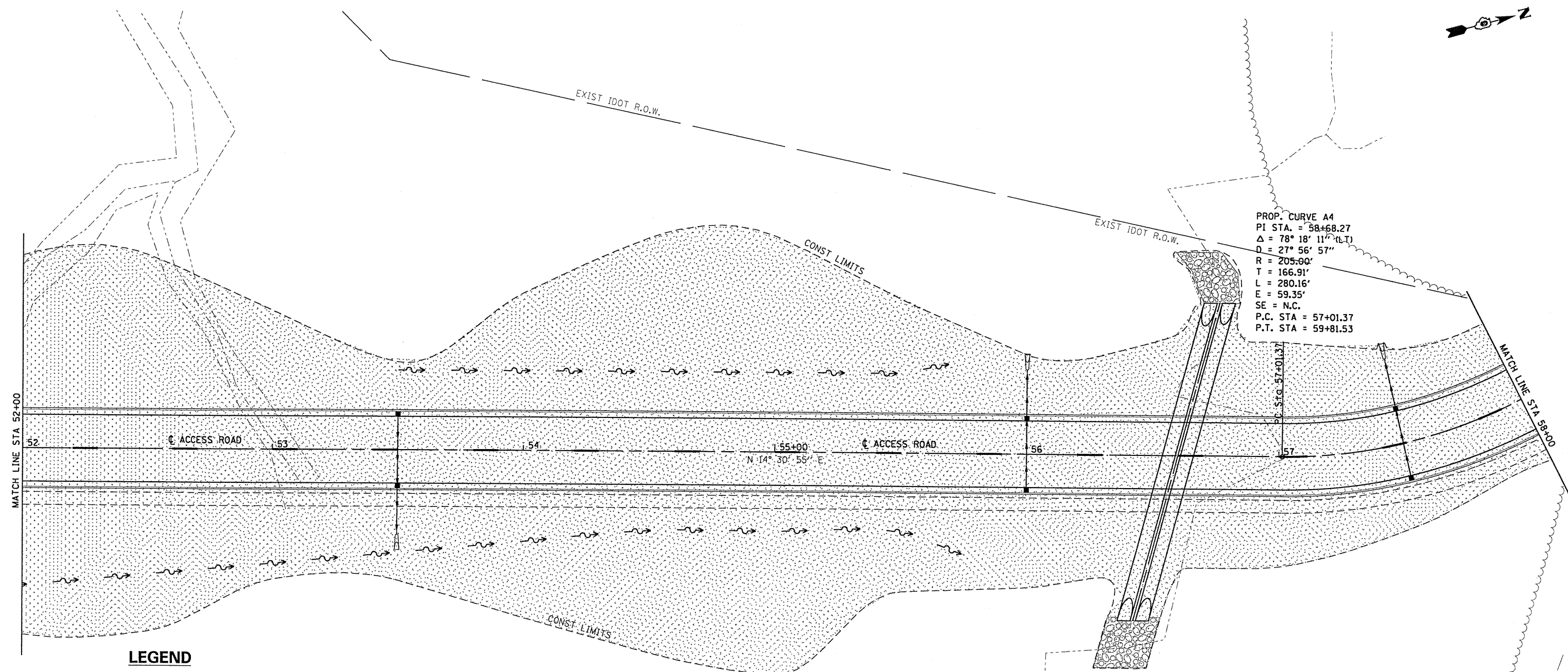
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN




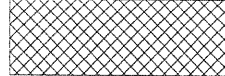

SCALE: 1:20 SHEET NO. 1 OF 3 SHEETS STA. 46+50 TO STA. 52+00

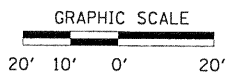
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	JACKSON	35	11
CONTRACT NO. 99425				

ILLINOIS FED. AID PROJECT



LEGEND

-  TREE REMOVAL
-  TREE REMOVAL, ACRES
-  COMBINATION CURB AND GUTTER REMOVAL
-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL



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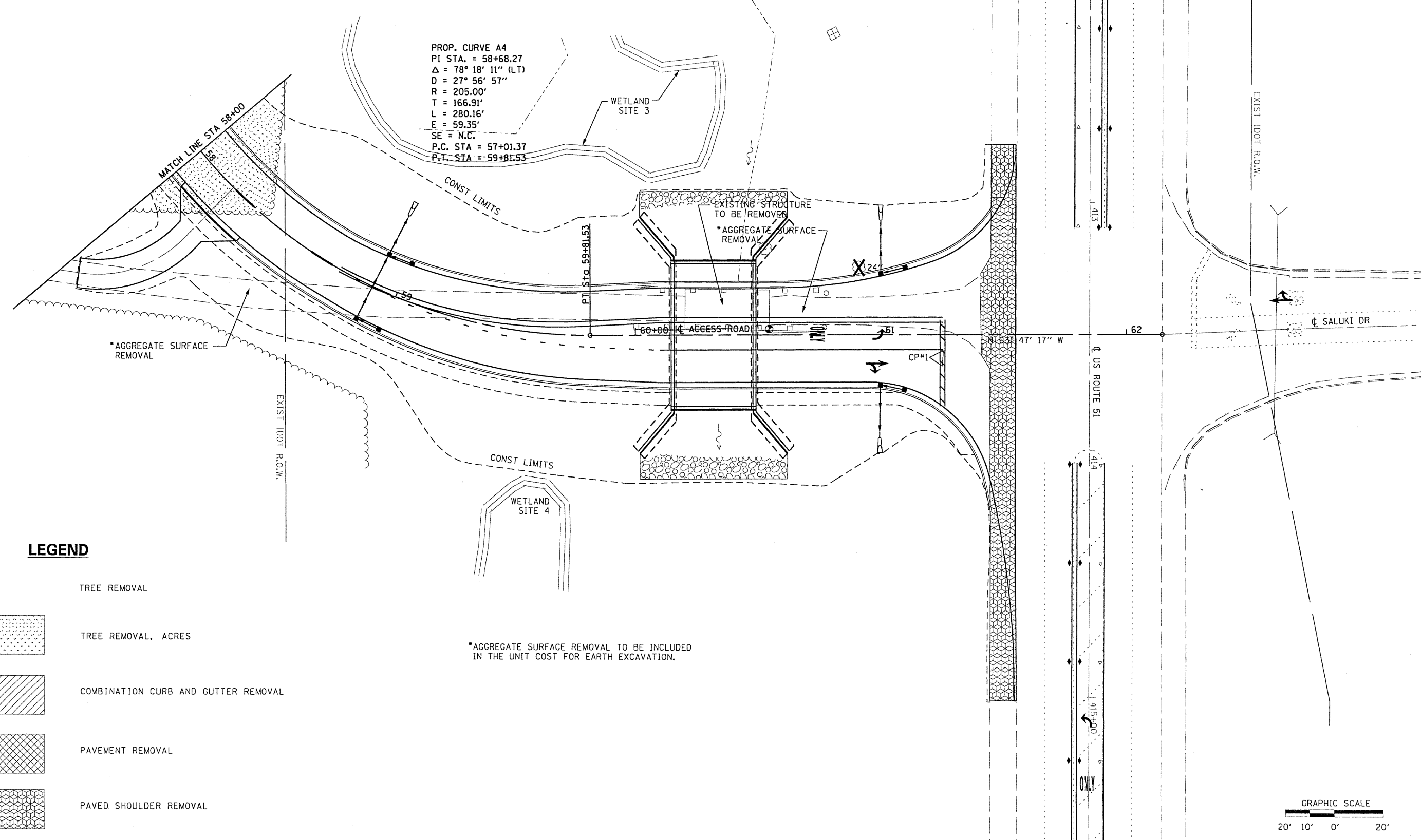
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	PLOT SCALE = 40.000' / IN.	CHECKED - MAR	REVISED -
	PLOT DATE = 7/13/2010	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**




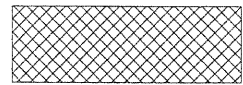
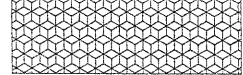
REMOVAL PLAN

SCALE: 1:20 SHEET NO. 2 OF 3 SHEETS STA. 52+00 TO STA. 58+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	JACKSON	35	12
CONTRACT NO. 99425				
ILLINOIS FED. AID PROJECT				



LEGEND

-  TREE REMOVAL
-  TREE REMOVAL, ACRES
-  COMBINATION CURB AND GUTTER REMOVAL
-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL

*AGGREGATE SURFACE REMOVAL TO BE INCLUDED IN THE UNIT COST FOR EARTH EXCAVATION.

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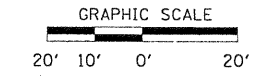


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	gn\remov03.dgn	DRAWN :	REVISED :
		UJ	-
		CHECKED :	REVISED :
		MAR	-
		DATE :	REVISED :
			-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN
SCALE: 1:20 SHEET NO. 3 OF 3 SHEETS STA. 58+00 TO STA. 61+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	JACKSON	35	13
CONTRACT NO. 99425				
ILLINOIS FED. AID PROJECT				

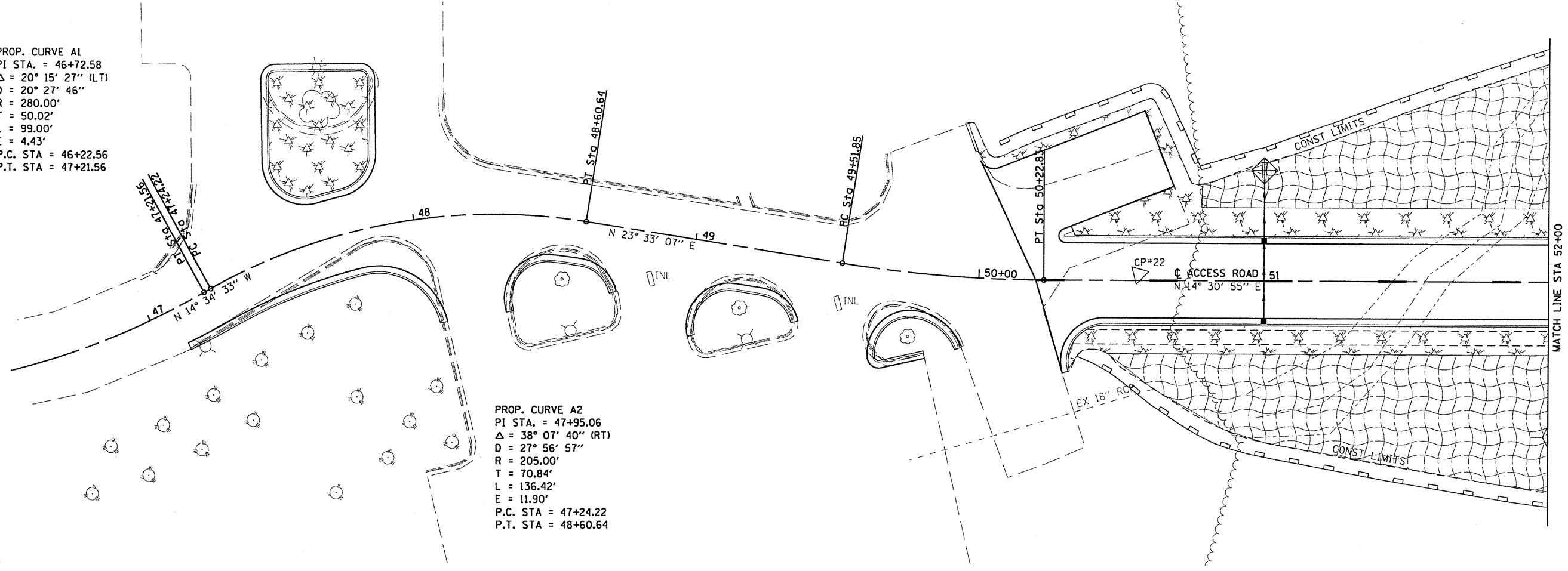







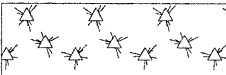
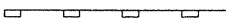
PROP. CURVE A3
 PI STA. = 49+87.42
 $\Delta = 9^\circ 02' 13''$ (LT)
 D = 12° 43' 57"
 R = 450.00'
 T = 35.56'
 L = 70.98'
 E = 1.40'
 P.C. STA = 49+51.85
 P.T. STA = 50+22.83

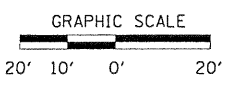
PROP. CURVE A1
 PI STA. = 46+72.58
 $\Delta = 20^\circ 15' 27''$ (LT)
 D = 20° 27' 46"
 R = 280.00'
 T = 50.02'
 L = 99.00'
 E = 4.43'
 P.C. STA = 46+22.56
 P.T. STA = 47+21.56

PROP. CURVE A2
 PI STA. = 47+95.06
 $\Delta = 38^\circ 07' 40''$ (RT)
 D = 27° 56' 57"
 R = 205.00'
 T = 70.84'
 L = 136.42'
 E = 11.90'
 P.C. STA = 47+24.22
 P.T. STA = 48+60.64



LEGEND

-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  EROSION CONTROL BLANKET
-  MULCH, METHOD 2
-  PERIMETER EROSION BARRIER



HURST-ROSCHKE ENGINEERS, INC.
 HILLSBORO, ILLINOIS 62049
 (217)532-3959 FAX (217)532-3212

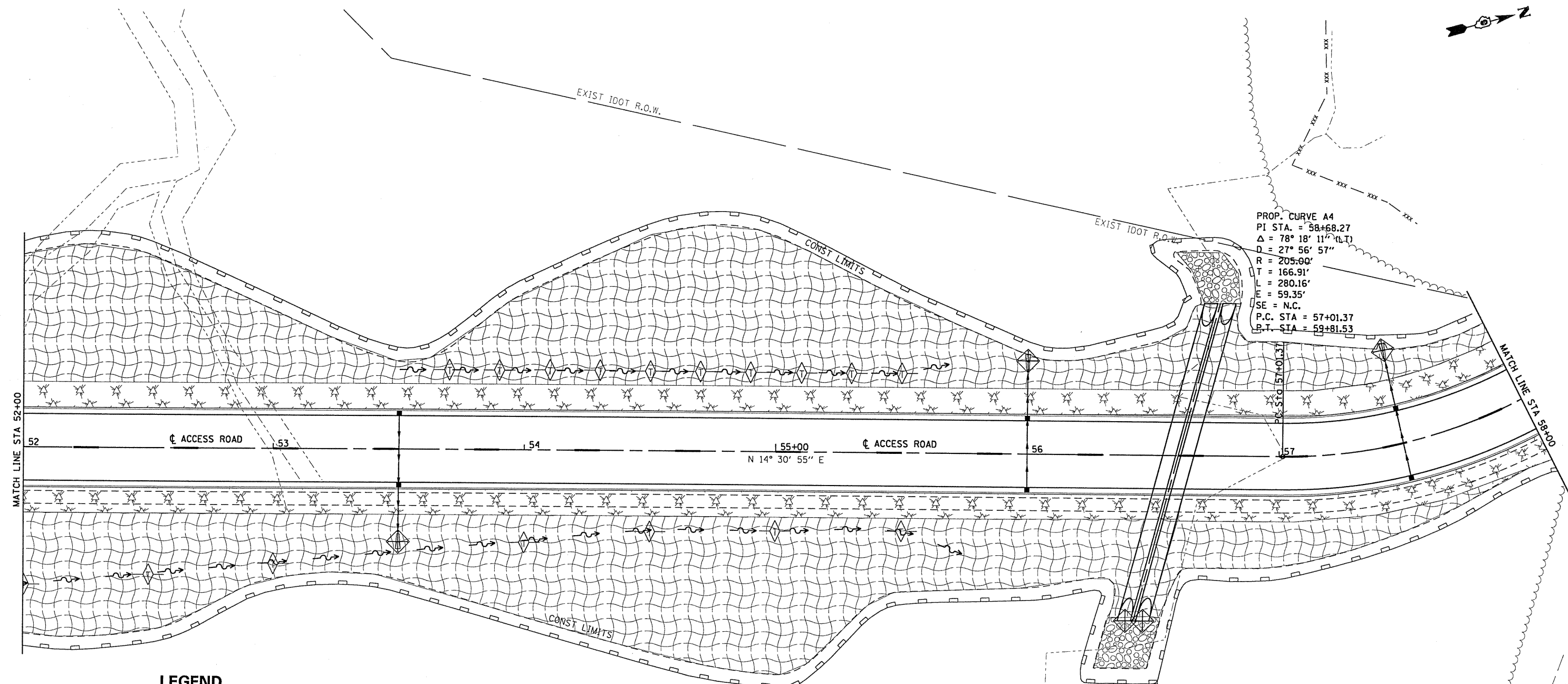


FILE NAME =	USER NAME = HURST-ROSCHKE	DESIGNED - JJC	REVISED -
\\365-4048.SIUC.Research.Park.Phase.IV\gn\swpp01.dgn		DRAWN - UJ	REVISED -
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	PLOT DATE = 7/13/2010	DATE -	REVISED -




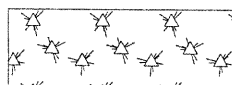

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

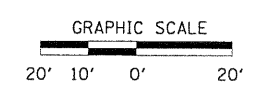
EROSION CONTROL PLAN
 SCALE: 1:20 SHEET NO. 1 OF 3 SHEETS STA. 46+50 TO STA. 52+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	JACKSON	35	14
CONTRACT NO. 99425				
ILLINOIS FED. AID PROJECT				



LEGEND

-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  EROSION CONTROL BLANKET
-  MULCH, METHOD 2
-  PERIMETER EROSION BARRIER



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HILLSBORO, ILLINOIS 62049
(217)532-3959 FAX (217)532-3212



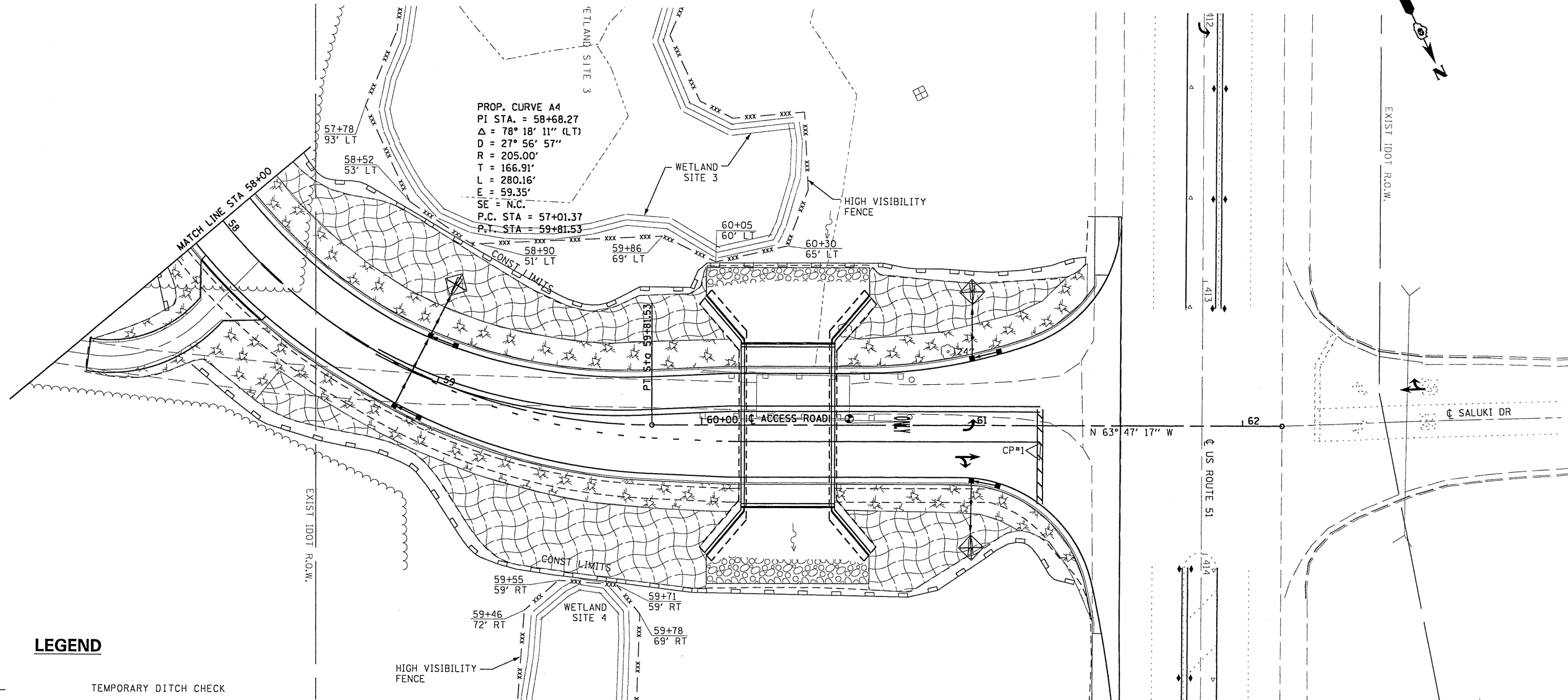
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\\365-4048.SIUC.Research_Park_Phase.II\ng\swpp02.dgn		DRAWN - UJ	REVISED -
	PLOT SCALE = 48,000' / IN.	CHECKED - MAR	REVISED -
	PLOT DATE = 7/13/2010	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**




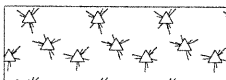
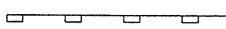
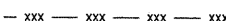
EROSION CONTROL PLAN

SCALE: 1:20 SHEET NO. 2 OF 3 SHEETS STA. 52+00 TO STA. 58+00

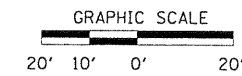
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-0002-00-RP	JACKSON	35	15
				CONTRACT NO. 99425
ILLINOIS FED. AID PROJECT				



LEGEND

-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  EROSION CONTROL BLANKET
-  MULCH, METHOD 2
-  PERIMETER EROSION BARRIER
-  HIGH VISIBILITY FENCE

PROP. CURVE A4
 PI STA. = 58+68.27
 $\Delta = 78^\circ 18' 11''$ (LT)
 $D = 27^\circ 56' 57''$
 $R = 205.00'$
 $T = 166.91'$
 $L = 280.16'$
 $E = 59.35'$
 $SE = N.C.$
 P.C. STA = 57+01.37
 P.T. STA = 59+81.53



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 HURST-ROSCHE ENGINEERS, INC.

FILE NAME =	USER NAME = HURST-ROSCHE	DESIGNED - JJC	REVISED -
\\365-4048-SIUC_Research_Park_Phase_11\gn\swpp03.dgn	gn\swpp03.dgn	DRAWN - UJ	REVISED -
PLOT SCALE = 40.000' / IN.	CHECKED - MAR	REVISED -	REVISED -
PLOT DATE = 7/13/2010	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1:20 SHEET NO. 3 OF 3 SHEETS STA. 58+00 TO STA. 61+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-0002-00-RP	JACKSON	35	16
CONTRACT NO. 99425				
ILLINOIS FED. AID PROJECT				

BENCH MARK:

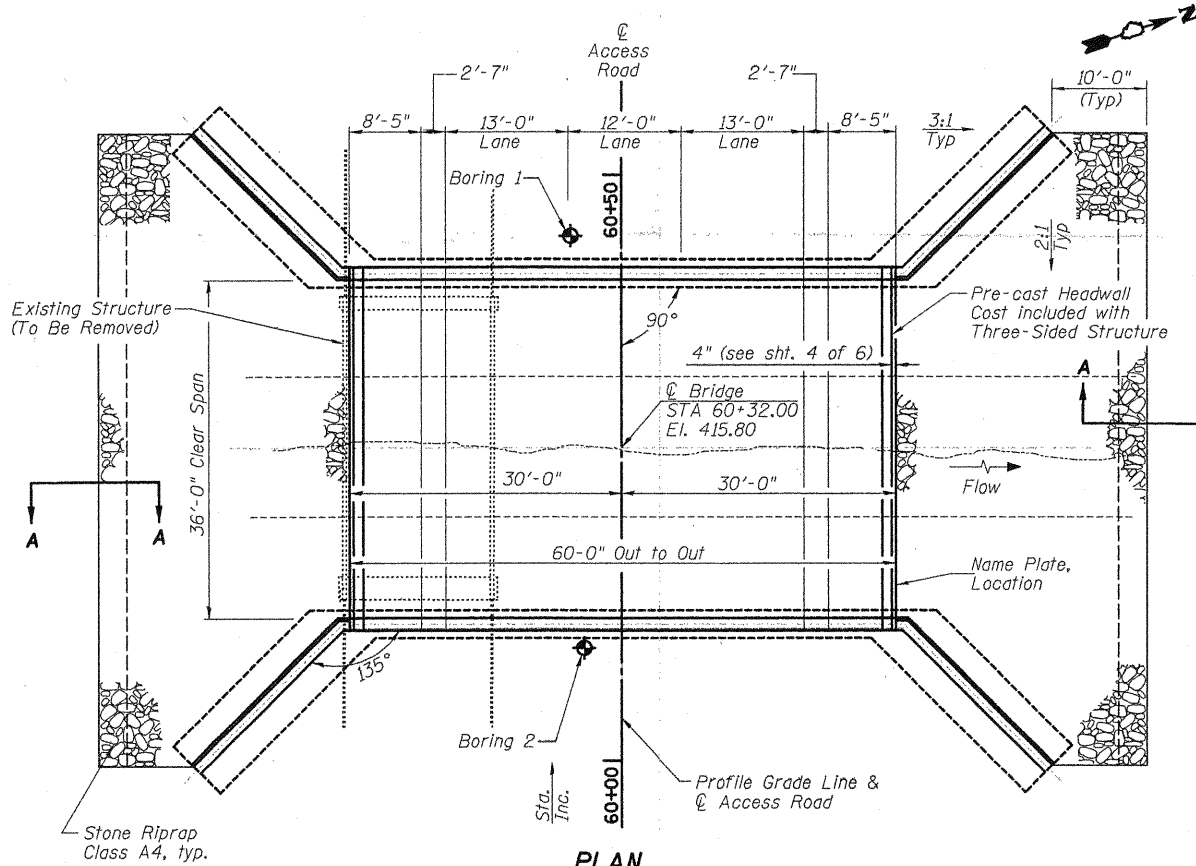
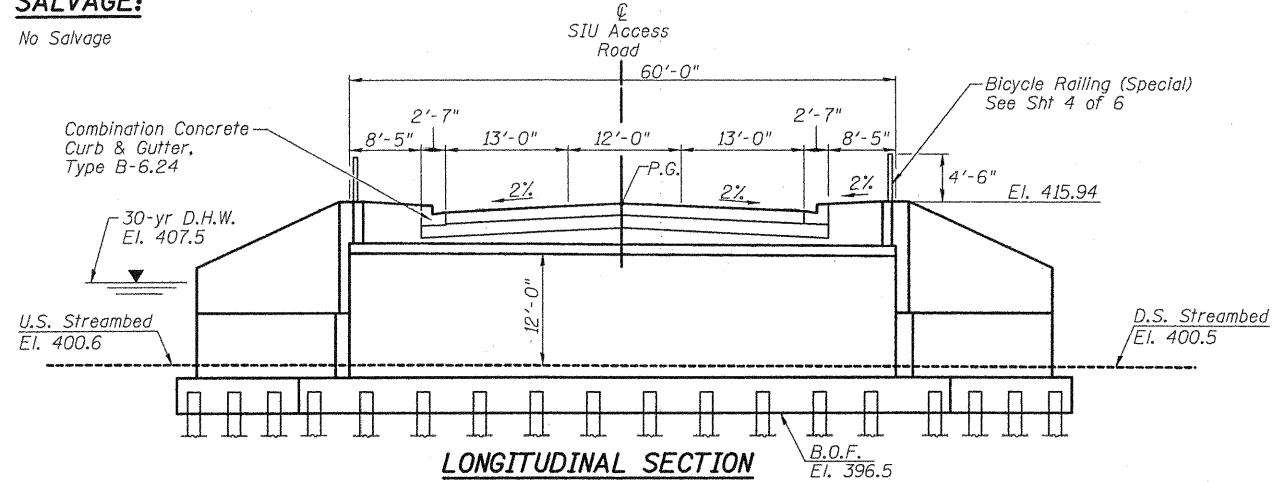
Chisled square at northwest corner of existing bridge, elevation = 415.78

EXISTING STRUCTURES:

Structure Number is 039-0045. Built in 1952 as S.B.I. Route 2, Sec. 9-1-B. Existing structure is a single span bridge with a reinforced concrete deck on steel beams supported by closed concrete abutments with timber piles and wingwalls. The out-to-out width is 16'-0". The back-to-back abutments length is 32'-0". The existing structure is to be removed and replaced with a three sided precast concrete structure located on a new alignment downstream. The road will be closed to traffic during the construction.

SALVAGE:

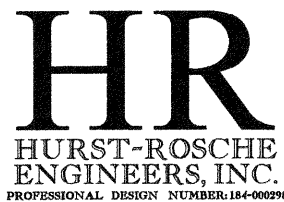
No Salvage



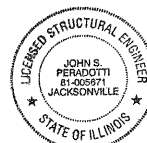
PLAN

I certify that to the best of my knowledge, information and belief, this Bridge Design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the "A.A.S.H.T.O. Standard Specification for Highway Bridges."

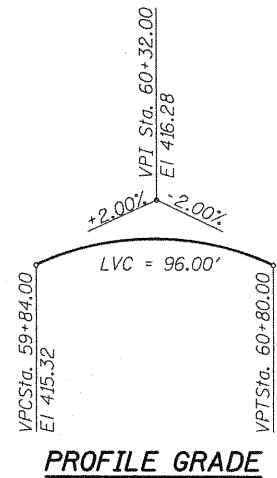
DESIGNED	MEB
CHECKED	AJW
DRAWN	MLK & AJW
CHECKED	JSP



John S. Peradotti 7-26-10
 JOHN S. PERADOTTI, S.E.
 ILLINOIS STRUCTURAL NO. 5671
 EXPIRES: NOVEMBER 30, 2010



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



HIGHWAY CLASSIFICATION
 S.B.I. Rte. 2 - SIU Access Road
 Functional Class: Local Road (Urban)
 ADT: 1662 (2010); 1662 (2030)
 ADTT: 84
 DHV: 256
 Design Speed: 25 m.p.h.
 Posted Speed: 20 m.p.h.
 2-Way Traffic
 Directional Distribution: 50:50

DESIGN SPECIFICATIONS
 2007 AASHTO LRFD Bridge Design Specifications
 with 2008 and 2009 Interims

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA
 Seismic Performance Zone (SPZ) = 3
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.367
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.856
 Soil Site Class = D

DESIGN STRESSES

FIELD UNITS
 f'_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS
 f'_c = 5,000 psi
 f_y = 65,000 psi (Welded Wire Fabric)

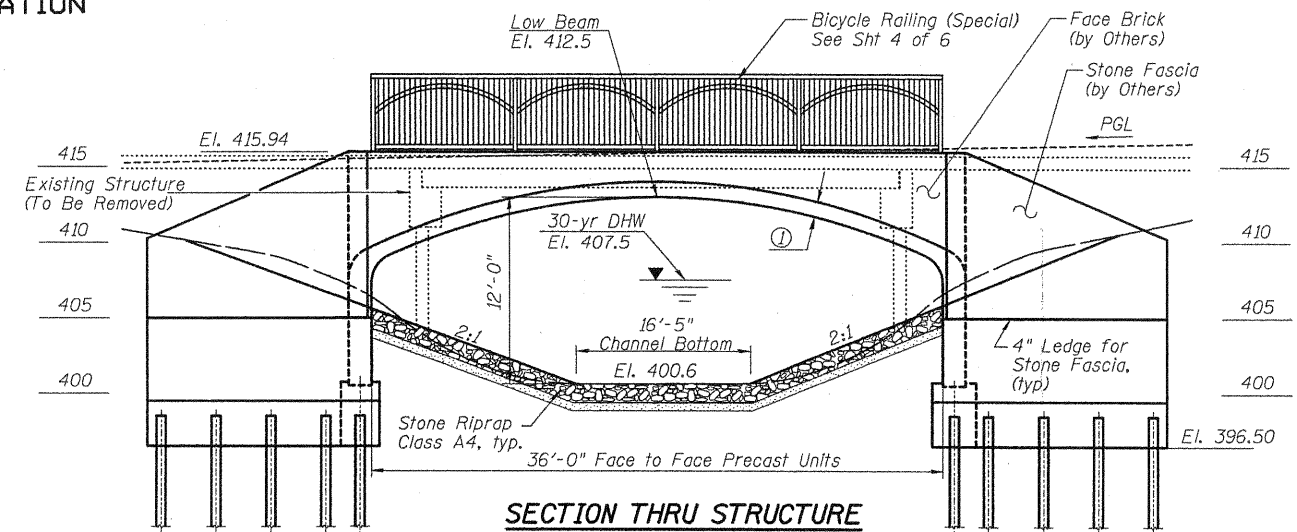
APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
Robert E. Anderson (SEIT)
 Director of Bridges and Structures

DESIGN SCOUR ELEVATION TABLE

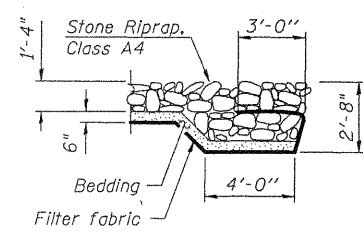
Design Scour Elevation (ft.)	D.S.	U.S.
	389.1	389.2

WATERWAY INFORMATION

Drainage Area = 3290 AC (5.14 Square Miles)		Low Grade Elev. ±415.00				
		Sta. N/A				
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Nat. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	30	1115	169 169	407.49	2.13 2.13	409.62 409.62
Base	50	1298	176 177	408.04	3.56 3.57	411.60 411.61
Base	100	1472	192 195	408.58	5.40 5.48	413.98 414.06
Overtopping	---	---	---	---	---	---
Max. Calc.	500	1789	219 224	409.45	9.65 9.65	419.10 419.10



① Slab, headwall width, wall thickness, and shape may vary per precast manufacturer



SECTION A-A

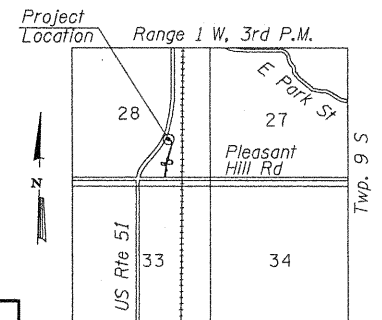
PILES FORK CREEK
 BUILT 201_ BY
 SIUC
 SEC. 05-00002-00-RP
 STATION 60+32.00
 STRUCTURE NO. 039-3268
 LOADING HL-93

NAME PLATE
 See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	1,365
Concrete Structures	Cu. Yd.	179.8
Reinforcement Bars, Epoxy Coated	Pound	2,885
Reinforcement Bars	Pound	14,305
Bicycle Railing (Special)	Foot	72
Furnishing Steel Piles HP 12x53	Foot	1,775
Driving Piles	Foot	1,775
Test Pile Steel HP 12x53	Each	2
Name Plates	Each	1
Three Sided Precast Concrete Structures 36' x 12'	Foot	60
Stone Riprap Class A4	Sq. Yd.	621
Filter Fabric	Sq. Yd.	621

* See Special Provisions
 ** These quantities were calculated under the assumption that the precast keyway section was 3" in depth. This dimension varies per manufacturer and the quantities may need revisions.



LOCATION SKETCH

GENERAL PLAN
 SIU ACCESS ROAD OVER
 PILES FORK CREEK
 S.B.I. RTE 2 - SEC 05-00002-00-RP
 JACKSON COUNTY
 STATION 60+32.00
 STRUCTURE NO. 039-3268

SHEET NO. 1 6 SHEETS	S.B.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2	05-00002-00-RP	JACKSON	35	17
				CONTRACT NO. 99425	
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT					

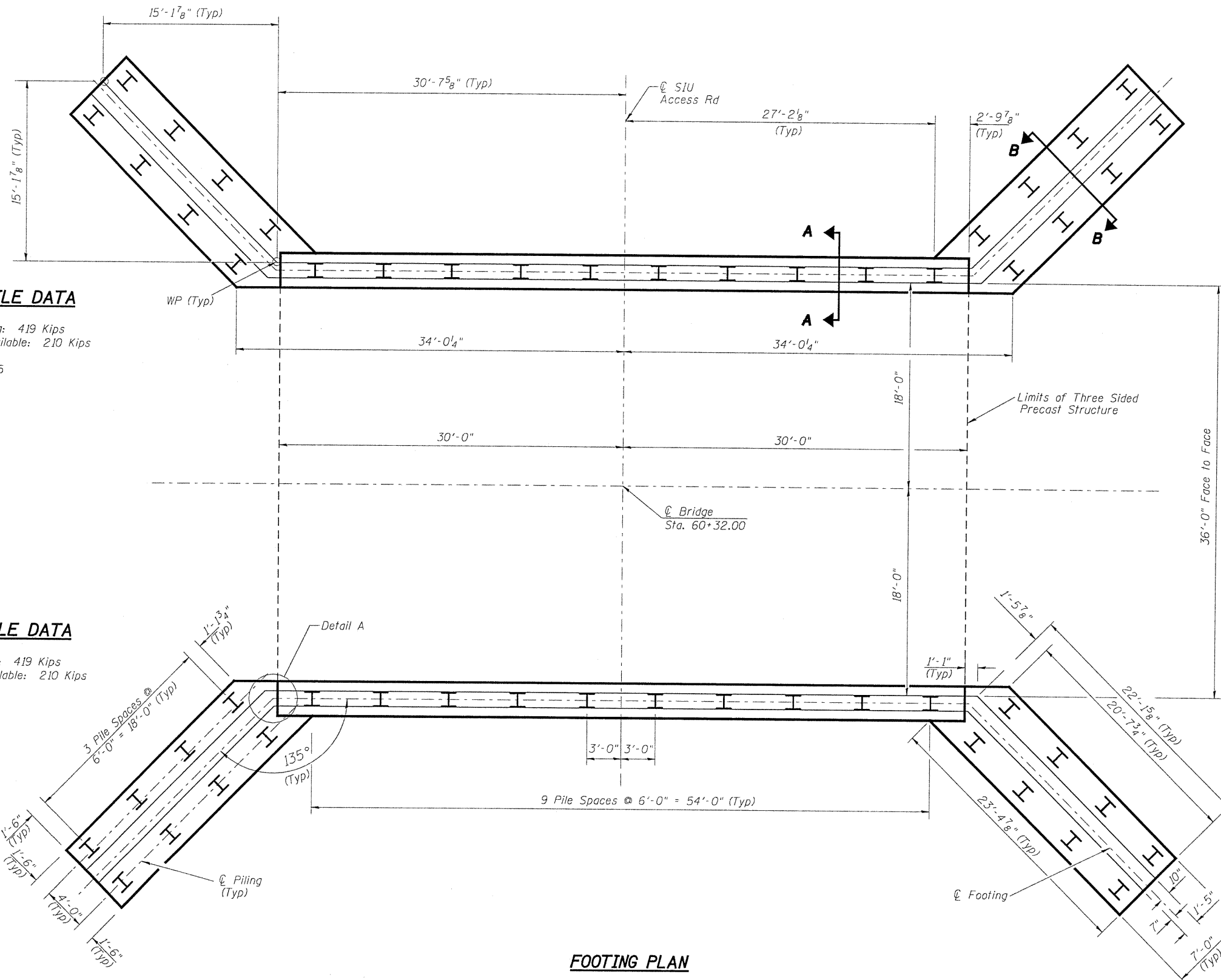
HRE # 365-4048

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
3. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
4. See sheet 3 of 6 for Sections A-A, B-B, and Detail A.
5. Reinforcement bars designated (E) shall be epoxy coated.



W. ABUTMENT PILE DATA

Type: HP 12 X 53
Nominal Required Bearing: 419 Kips
Factored Resistance Available: 210 Kips
Est. Length: 38'
No. Production Piles: 25
No. Test Piles: 1

E. ABUTMENT PILE DATA

Type: HP 12 X 53
Nominal Required Bearing: 419 Kips
Factored Resistance Available: 210 Kips
Est. Length: 33'
No. Production Piles: 25
No. Test Piles: 1

FOOTING PLAN

**FOOTING PLAN
STRUCTURE NO. 039-3268**

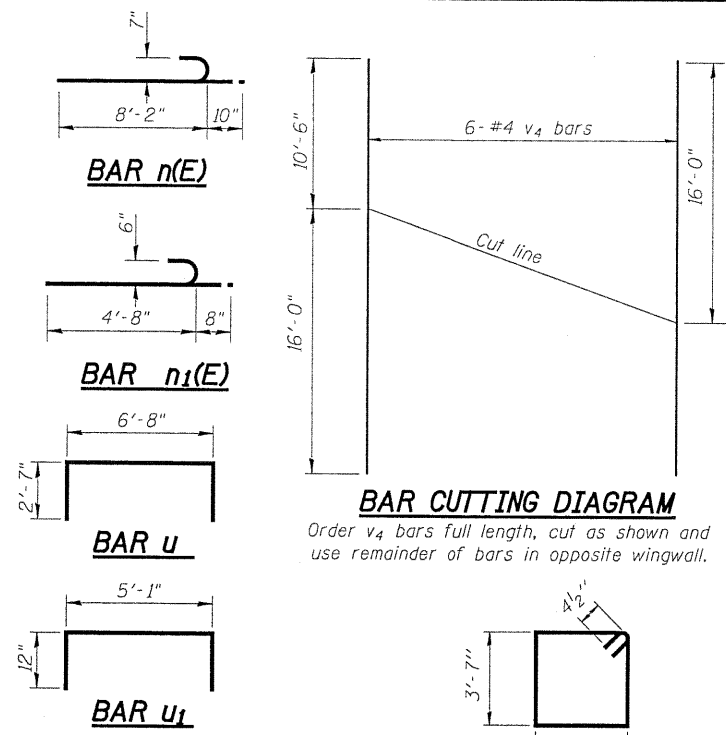
DESIGNED	MEB
CHECKED	AJW
DRAWN	MLK & AJW
CHECKED	CJC

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ENGINEERS, INC.
PROFESSIONAL DESIGN NUMBER: 184-000298

SHEET NO. 2 6 SHEETS	S.B.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2	05-00002-00-RP	JACKSON	35	18
CONTRACT NO. 99425					
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT					

HRE # 365-4048

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BAR CUTTING DIAGRAM

Order v4 bars full length, cut as shown and use remainder of bars in opposite wingwall.

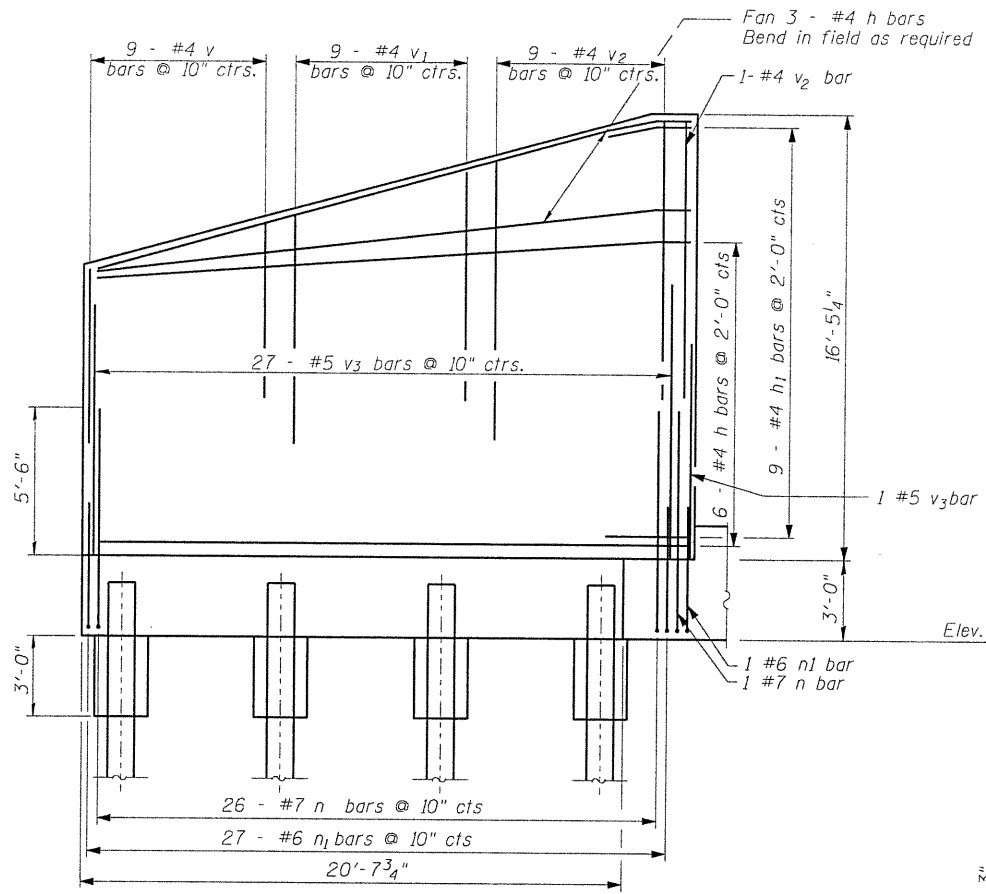
**ABUTMENT
BILL OF MATERIAL**
(both abutments)

Bar	No.	Size	Length	Shape
h	108	#4	21'-8"	—
h1	36	#4	2'-5"	—
h2	72	#4	2'-9"	—
n(E)	108	#7	9'-0"	—
n1(E)	112	#6	5'-4"	—
s	102	#4	13'-3"	—
u	192	#6	11'-10"	—
u1	24	#4	7'-1"	—
v	36	#4	6'-5"	—
v1	36	#4	8'-5"	—
v2	40	#4	10'-3"	—
v3	112	#5	8'-0"	—
v4	12	#4	26'-6"	—
w	56	#7	31'-6"	—
w1	80	#6	21'-8"	—
w2	32	#5	4'-0"	—
Concrete Structures	Cu. Yd.		179.8	
Reinforcement Bars, Epoxy Coated	Pound		2,885	
Reinforcement Bars	Pound		14,305	
Furnishing Steel Piles HP12x53	Foot		1,775	
Driving Piles	Foot		1,775	
Test Pile Steel HP12x53	Each		2	
Concrete Encasement	Cu. Yd.		18.2	

For details of piles and Concrete Encasement, see sheet 5 of 6.
Bars indicated thus 14 x 2 - #7, etc. indicates 14 lines of bars with 2 lengths per line.

DESIGNED	MEB
CHECKED	AJW
DRAWN	MLK & AJW
CHECKED	JSP

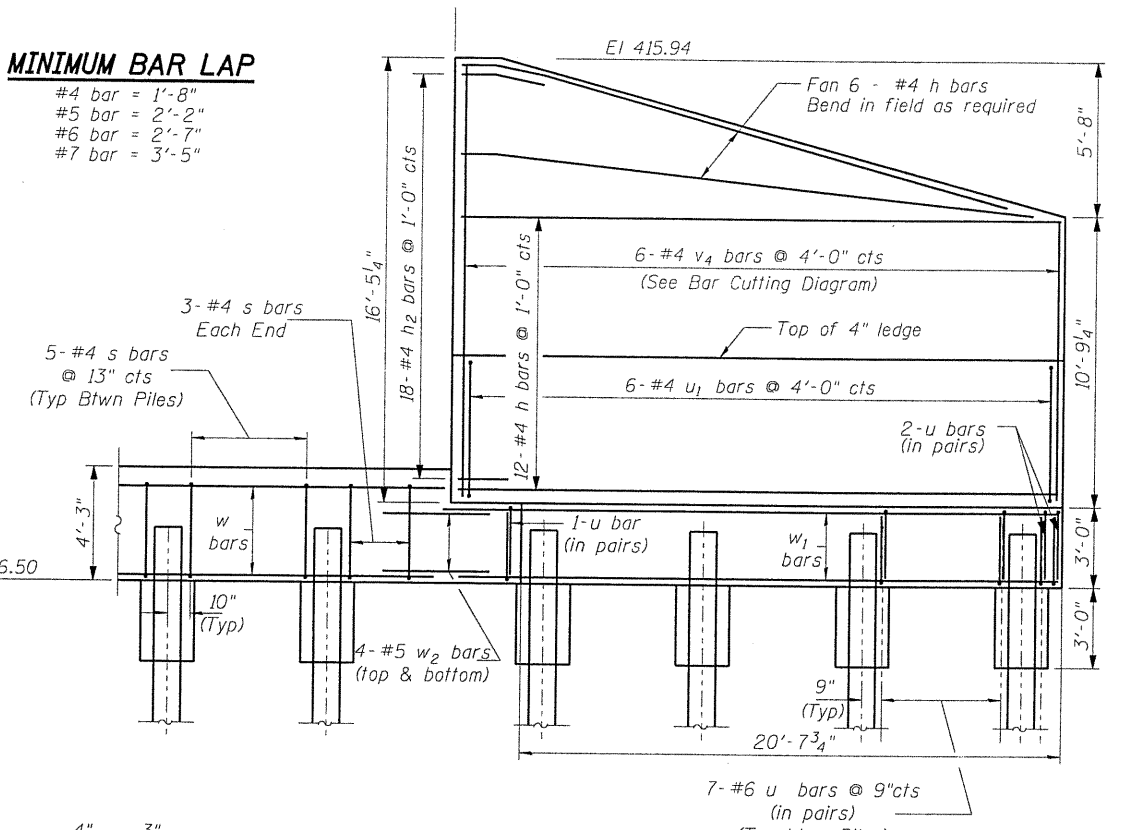
HR
HURST-ROSCHÉ
ENGINEERS, INC.
PROFESSIONAL DESIGN NUMBER: 184-000298



WINGWALL ELEVATION

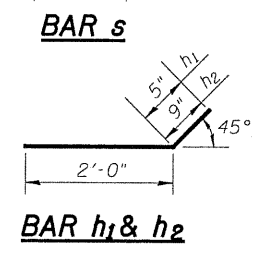
Showing Reinforcement in Back Face of Wingwall (4" ledge not shown for clarity)

MINIMUM BAR LAP
#4 bar = 1'-8"
#5 bar = 2'-2"
#6 bar = 2'-7"
#7 bar = 3'-5"

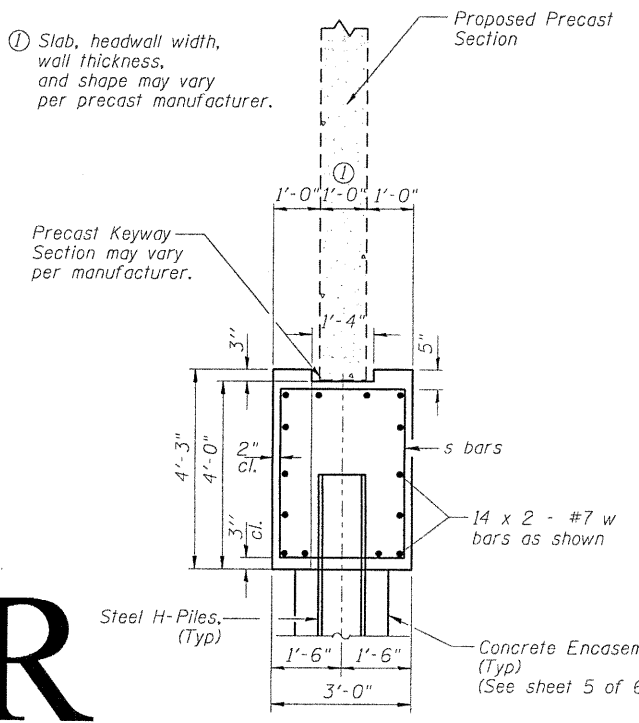


WINGWALL ELEVATION

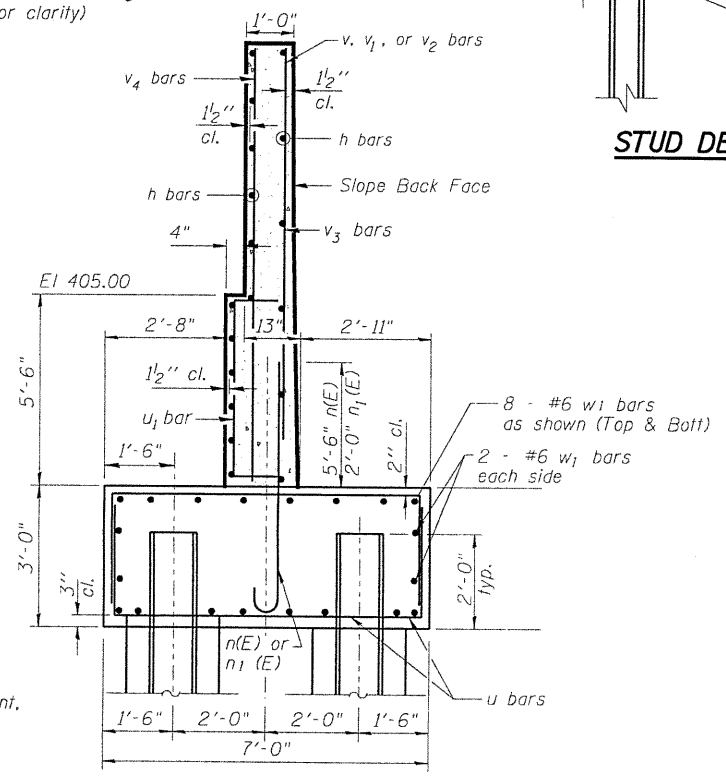
Showing Reinforcement in Front Face of Wingwall



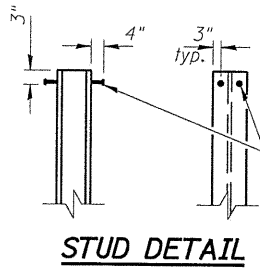
Slab, headwall width, wall thickness, and shape may vary per precast manufacturer.



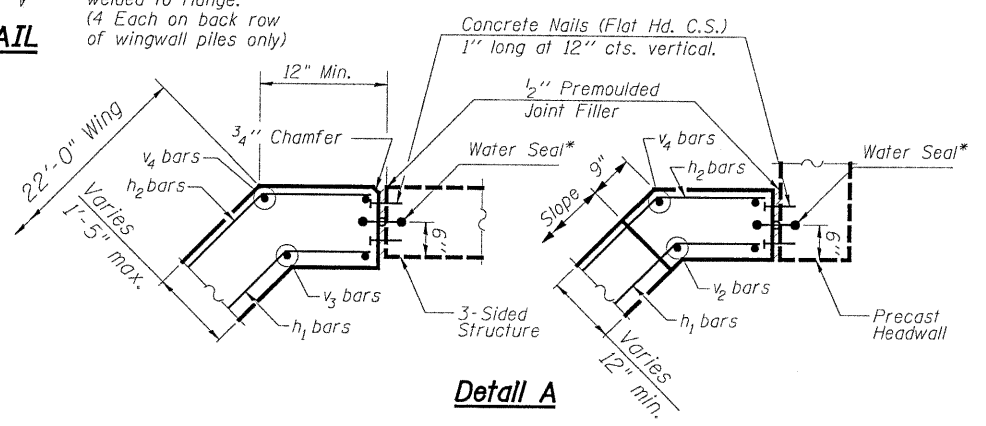
SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



STUD DETAIL



Detail A

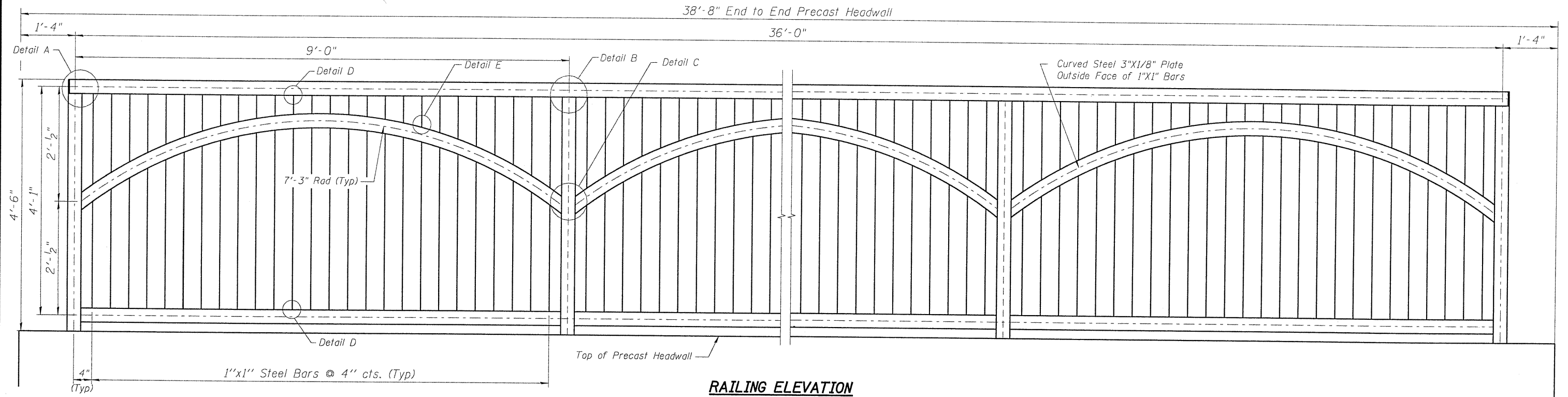
* 6" Hollow bulb type nonmetallic water seal to be cast into end sections of the three-sided structure and headwalls. (6" from top of wall to top of footing)

FOOTING & WINGWALL DETAILS
STRUCTURE NO. 039-3268

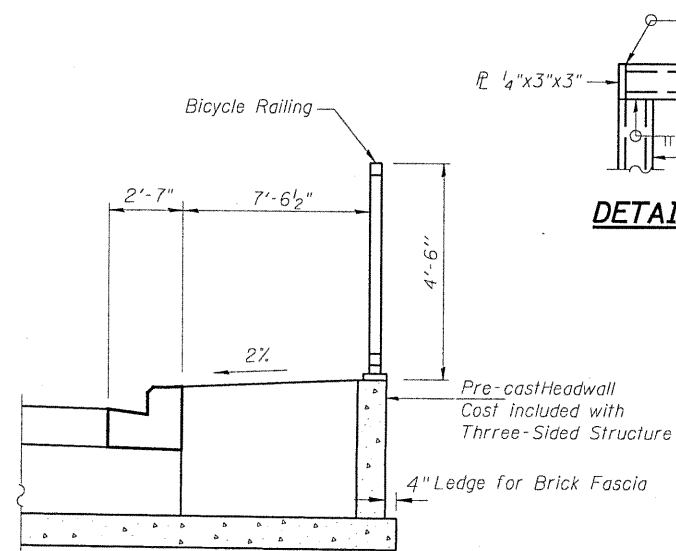
SHEET NO. 3	S.B.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2	05-00002-00-RP	JACKSON	35	19
6 SHEETS			CONTRACT NO. 99425		
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT					

HRE # 365-4048

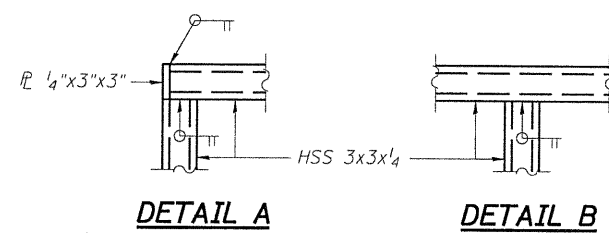
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



RAILING ELEVATION

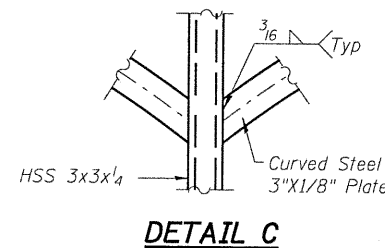


RAILING DETAIL
N.T.S.

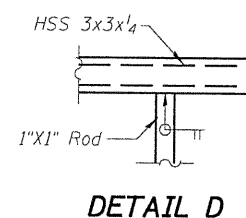


DETAIL A

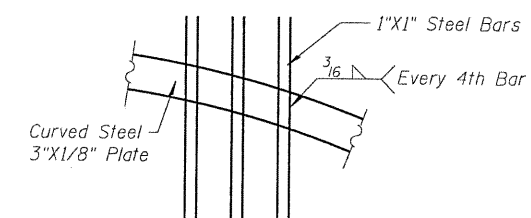
DETAIL B



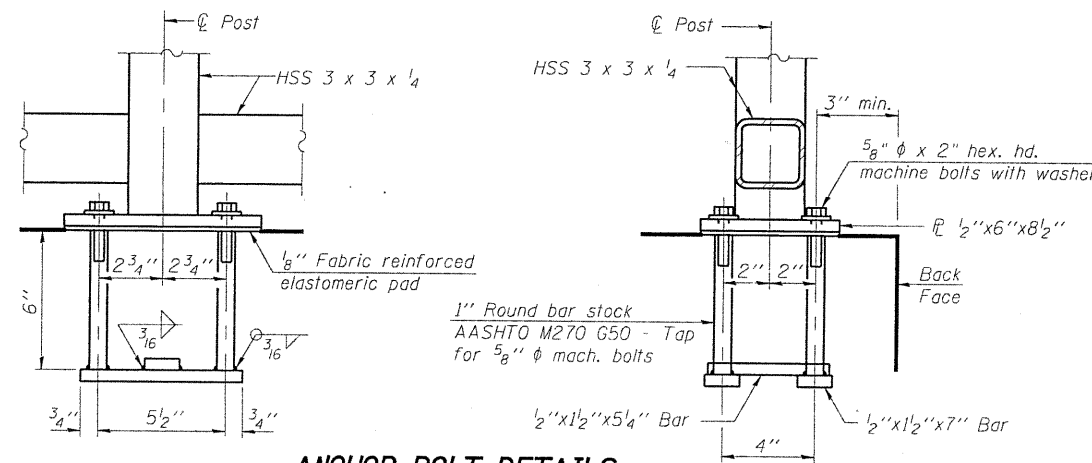
DETAIL C



DETAIL D

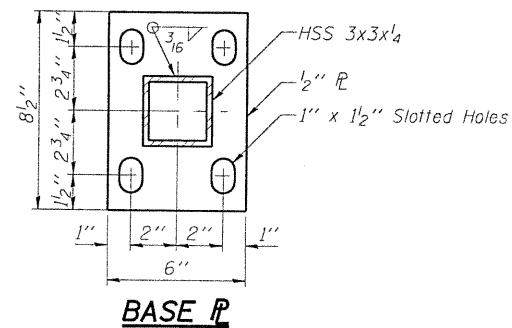


DETAIL E



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



BASE PL

Notes:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
This work shall be done in accordance with the applicable portions of section 509 of the Standard Specifications

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing (Special)	Foot	72

**BICYCLE RAILING PLAN
STRUCTURE NO. 039-3268**

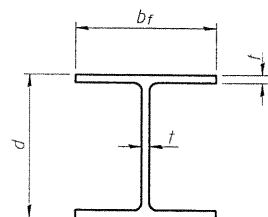
SHEET NO.	S.B.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	2	05-00002-00-RP	JACKSON	35	20
			CONTRACT NO. 99425		
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT					

DESIGNED	MEB
CHECKED	JLG
DRAWN	TWC
CHECKED	JSP

HR
HURST-ROSCH
ENGINEERS, INC.
PROFESSIONAL DESIGN NUMBER: 184-000298

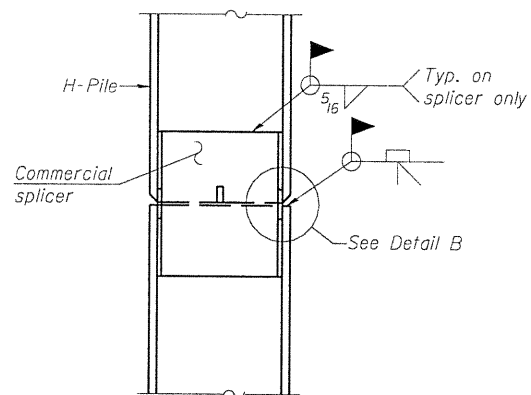
HRE # 365-4048

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

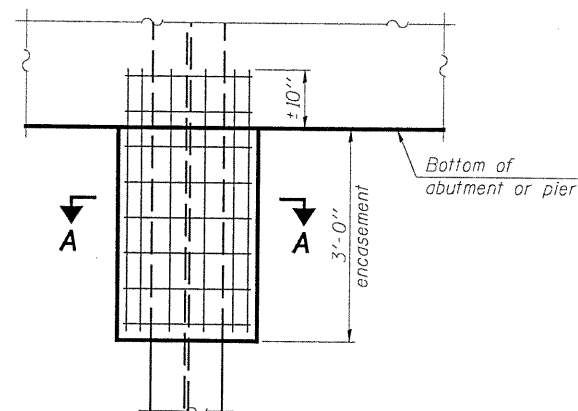


STEEL PILE TABLE

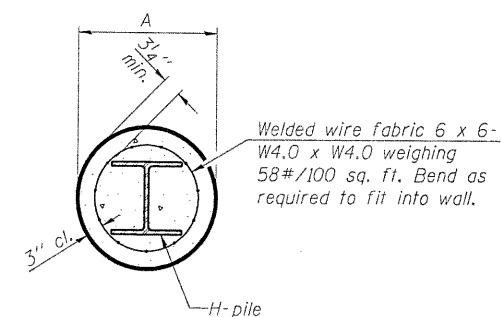
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13 1/16"	30"
x102	14"	14 3/4"	11 1/16"	30"
x89	13 7/8"	14 3/4"	5 5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11 1/16"	24"
x74	12 1/8"	12 1/4"	5 5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7 1/16"	24"
HP 10x57	10"	10 1/4"	9 1/16"	24"
x42	9 3/4"	10 1/8"	7 1/16"	24"
HP 8x36	8"	8 1/8"	7 1/16"	18"



ELEVATION



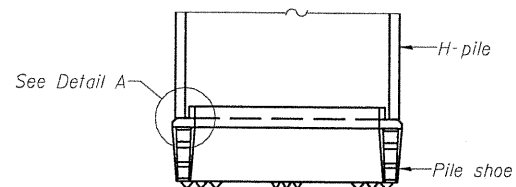
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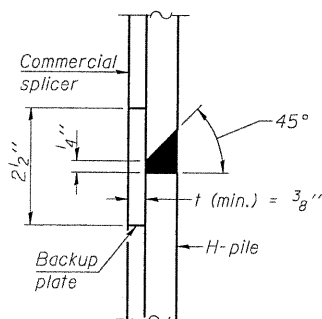
SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

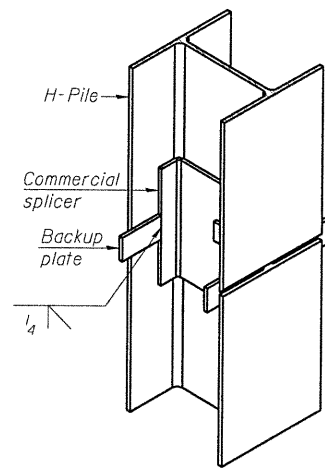
PILE ENCASEMENT



ELEVATION

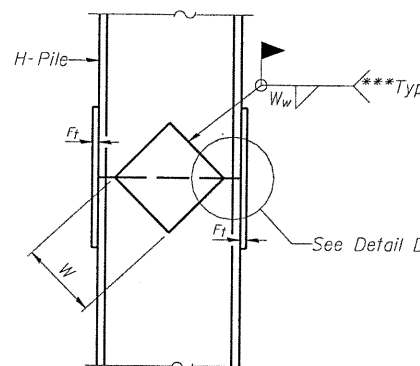


DETAIL "B"

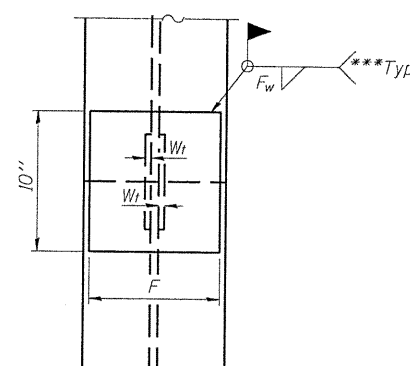


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



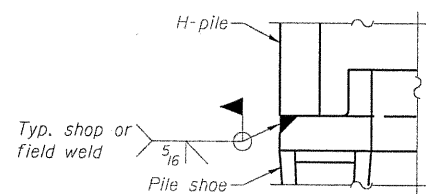
ELEVATION



END VIEW

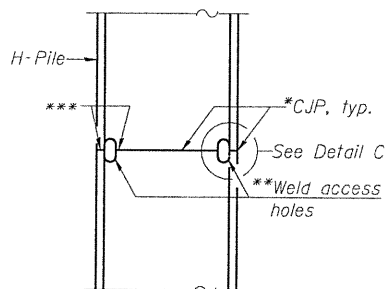
Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7 3/8"	7 3/4"	5 5/8"	1 1/2"
x102	12 1/2"	7/8"	3 3/4"	7 3/4"	5 5/8"	1 1/2"
x89	12 1/2"	3/4"	11 1/16"	7 3/4"	5 5/8"	1 1/2"
x73	12 1/2"	5/8"	9 1/16"	7 3/4"	5 5/8"	1 1/2"
HP 12x84	10"	7/8"	11 1/16"	6 1/2"	5 5/8"	1 1/2"
x74	10"	7/8"	11 1/16"	6 1/2"	5 5/8"	1 1/2"
x63	10"	5/8"	1 1/2"	6 1/2"	1 1/2"	3 3/8"
x53	10"	5/8"	1 1/2"	6 1/2"	1 1/2"	3 3/8"
HP 10x57	8"	3/4"	9 1/16"	5 1/4"	1 1/2"	3 3/8"
x42	8"	5/8"	9 1/16"	5 1/4"	1 1/2"	3 3/8"
HP 8x36	7"	5/8"	7 1/16"	4 1/4"	1 1/2"	3 3/8"

WELDED PLATE FIELD SPLICE

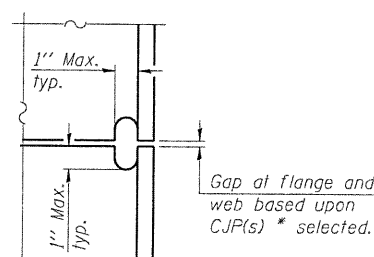


DETAIL A

H-PILE SHOE ATTACHMENT

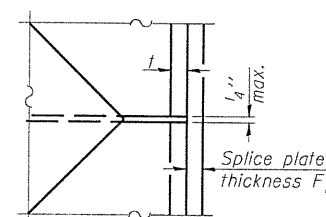


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

* Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.
** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.
*** Interrupt welds 1/4" from end of each pile.

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

**HP PILE DETAILS
STRUCTURE NO. 039-3268**

DESIGNED	MEB
CHECKED	JSP
DRAWN	CJC
CHECKED	MEB

HR
HURST-ROSCHÉ
ENGINEERS, INC.
PROFESSIONAL DESIGN NUMBER: 184-000298

F-HP

10-1-08

SHEET NO. 5	S.B.I. RTE. 2	SECTION 05-00002-00-RP	COUNTY JACKSON	TOTAL SHEETS 35	SHEET NO. 21
6 SHEETS	CONTRACT NO. 99425				
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT					

HRE # 365-4048

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING #1

LOG 1 OF 2

Geotechnical Investigation
SIU-Carbondale Research
Park Roadway
Carbondale, Jackson Co., Illinois
Project # 365-4048

ATLAS SOILS, INC.
HILLSBORO, ILLINOIS
PHONE 217/532-3959

DATE: Feb. 3, 2009
BORING TECH.: J. Maness
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG									
BORING NO.: 1	N	P	W	REC	GROUNDWATER ELEV.	N	P	W	REC
APPROX. STATION: 60+55, 5' LT	Value	(tsf)	(%)	(%)	COMP.: -44.3 ft.	Value	(tsf)	(%)	(%)
APP. SURFACE ELEV.: 410 ft.					AFTER 24 HRS.: -26.7 ft.; Bridge @ -28.0 ft.				
0					20				
SILTY CLAY (CL), Reddish Brown, Moist, Medium Stiff	7	-	21.0	10		7	1.5	24.5	100
SILTY CLAY LOAM (CL), Reddish Brown, Moist, Medium Stiff	5	6	0.7	18.9	50	25	10	1.0	23.3
Stiff	10	0.8	23.5	55		6	0.6	20.4	100
SILTY CLAY (CL), Reddish Brown, Moist, Medium Stiff, Trace of Gravel	10	6	-	24.9	35	30	6	0.75	24.6
SILTY LOAM (ML), Gray, Brown, Mottled, Moist to Wet, Medium Stiff	6	1.25	21.3	80					
SILTY CLAY LOAM (CL), Gray, Brown, Mottled, Wet, Medium Stiff	15	4	-	26.1	90	35	4	0.75	22.8
SILTY CLAY (CL), Brown, Black & Reddish Brown, Mottled, Moist, Medium Stiff, Trace of Sand	20	6	1.75	27.2	90	40	4	1.25	21.2

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler
12" with 140 lb. Hammer falling 30"
(Standard Penetration Test)

Qu: Unconfined Compression Strength
NP: Non-Plastic
ST: Shelby Tube
W: Water Content

RQD: Rock Quality Determination

Type Failure:
B: Bulge Failure
S: Shear Failure
NS: No Sample
P: Penetrometer

LOG 2 OF 2

Geotechnical Investigation
SIU-Carbondale Research
Park Roadway
Carbondale, Jackson Co., Illinois
Project # 365-4048

ATLAS SOILS, INC.
HILLSBORO, ILLINOIS
PHONE 217/532-3959

DATE: Feb. 3, 2009
BORING TECH.: J. Maness
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG									
BORING NO.: 1 (Continued)	N	P	W	REC	GROUNDWATER ELEV.	N	P	W	REC
APPROX. STATION: 60+55, 5' LT	Value	(tsf)	(%)	(%)	COMP.: -44.3 ft.	Value	(tsf)	(%)	(%)
APP. SURFACE ELEV.: 410 ft.					AFTER 24 HRS.: -26.7 ft.; Bridge @ -28.0 ft.				
40					60				
SILTY LOAM (ML), Gray, Moist, Medium Stiff, Trace of Sand	45	11	NP	22	100				
SILT (ML), Gray, Moist, Stiff	5	7	1.75	31.5	20				
SILTSTONE, Gray, Dry to Moist, Hard	100/9"	NP	-	100					
End of Exploration at 48.9 ft.									
50					70				
55					75				
60					80				

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler
12" with 140 lb. Hammer falling 30"
(Standard Penetration Test)

Qu: Unconfined Compression Strength
NP: Non-Plastic
ST: Shelby Tube
W: Water Content

RQD: Rock Quality Determination

Type Failure:
B: Bulge Failure
S: Shear Failure
NS: No Sample
P: Penetrometer

SOIL BORING #2

LOG 1 OF 2

Geotechnical Investigation
SIU-Carbondale Research
Park Roadway
Carbondale, Jackson Co., Illinois
Project # 365-4048

ATLAS SOILS, INC.
HILLSBORO, ILLINOIS
PHONE 217/532-3959

DATE: Feb. 2, 2009
BORING TECH.: J. Maness
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG									
BORING NO.: 2	N	P	W	REC	GROUNDWATER ELEV.	N	P	W	REC
APPROX. STATION: 60+15, 5' LT	Value	(tsf)	(%)	(%)	COMP.: Dry	Value	(tsf)	(%)	(%)
APP. SURFACE ELEV.: 410 ft.					AFTER 24 HRS.: -14.7 ft.; Bridge @ -33.6 ft.				
0					20				
SILTY LOAM (ML), Brown, Dry to Moist	22	NP	17.9	90		6	1.5	17.3	100
Brown, Medium Stiff	5	7	1.75	31.5	20				
Gray, Brown, Mottled, Stiff	9	2.25	18.8	65		7	1.0	21.1	100
Trace of Sand, Medium Stiff	10	7	1.5	20.7	90				
SILTY CLAY LOAM (CL), Gray, Reddish-Brown, Mottled, Moist, Medium Stiff	4	0.6	21.2	100					
	15	5	1.5	16.0	100				
SILTY CLAY (CL), Gray, Reddish Brown, Mottled, Moist, Stiff, Few Sand	8	2.0	25.8	100					
Medium Stiff, No Sand	20	6	1.8	25.2	100				
	40	12	4.0	18.8	100				

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler
12" with 140 lb. Hammer falling 30"
(Standard Penetration Test)

Qu: Unconfined Compression Strength
NP: Non-Plastic
ST: Shelby Tube
W: Water Content

RQD: Rock Quality Determination

Type Failure:
B: Bulge Failure
S: Shear Failure
NS: No Sample
P: Penetrometer

LOG 2 OF 2

Geotechnical Investigation
SIU-Carbondale Research
Park Roadway
Carbondale, Jackson Co., Illinois
Project # 365-4048

ATLAS SOILS, INC.
HILLSBORO, ILLINOIS
PHONE 217/532-3959

DATE: Feb. 2, 2009
BORING TECH.: J. Maness
DRILLING TECH.: M. Hough

FOUNDATION BORING LOG									
BORING NO.: 2 (Continued)	N	P	W	REC	GROUNDWATER ELEV.	N	P	W	REC
APPROX. STATION: 60+15, 5' LT	Value	(tsf)	(%)	(%)	COMP.: Dry	Value	(tsf)	(%)	(%)
APP. SURFACE ELEV.: 410 ft.					AFTER 24 HRS.: -14.7 ft.; Bridge @ -33.6 ft.				
40					60				
SILTY LOAM (ML), Gray, Moist, Stiff	45	100/11"	NP	-	95				
SILTSTONE, Gray, Hard	100/2"	NP	-	100					
	100/3"	NP	-	100					
	100/2"	NP	-	100					
End of Exploration at 57.7 ft.									
60					80				

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler
12" with 140 lb. Hammer falling 30"
(Standard Penetration Test)

Qu: Unconfined Compression Strength
NP: Non-Plastic
ST: Shelby Tube
W: Water Content

RQD: Rock Quality Determination

Type Failure:
B: Bulge Failure
S: Shear Failure
NS: No Sample
P: Penetrometer

BORING LOGS
STRUCTURE NO. 039-3268

SHEET NO. 6	S.B.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6 SHEETS	2	05-00002-00-RP	JACKSON	35	22
			CONTRACT NO. 99425		
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT					

DESIGNED	MEB
CHECKED	JSP
DRAWN	MLK
CHECKED	JSP

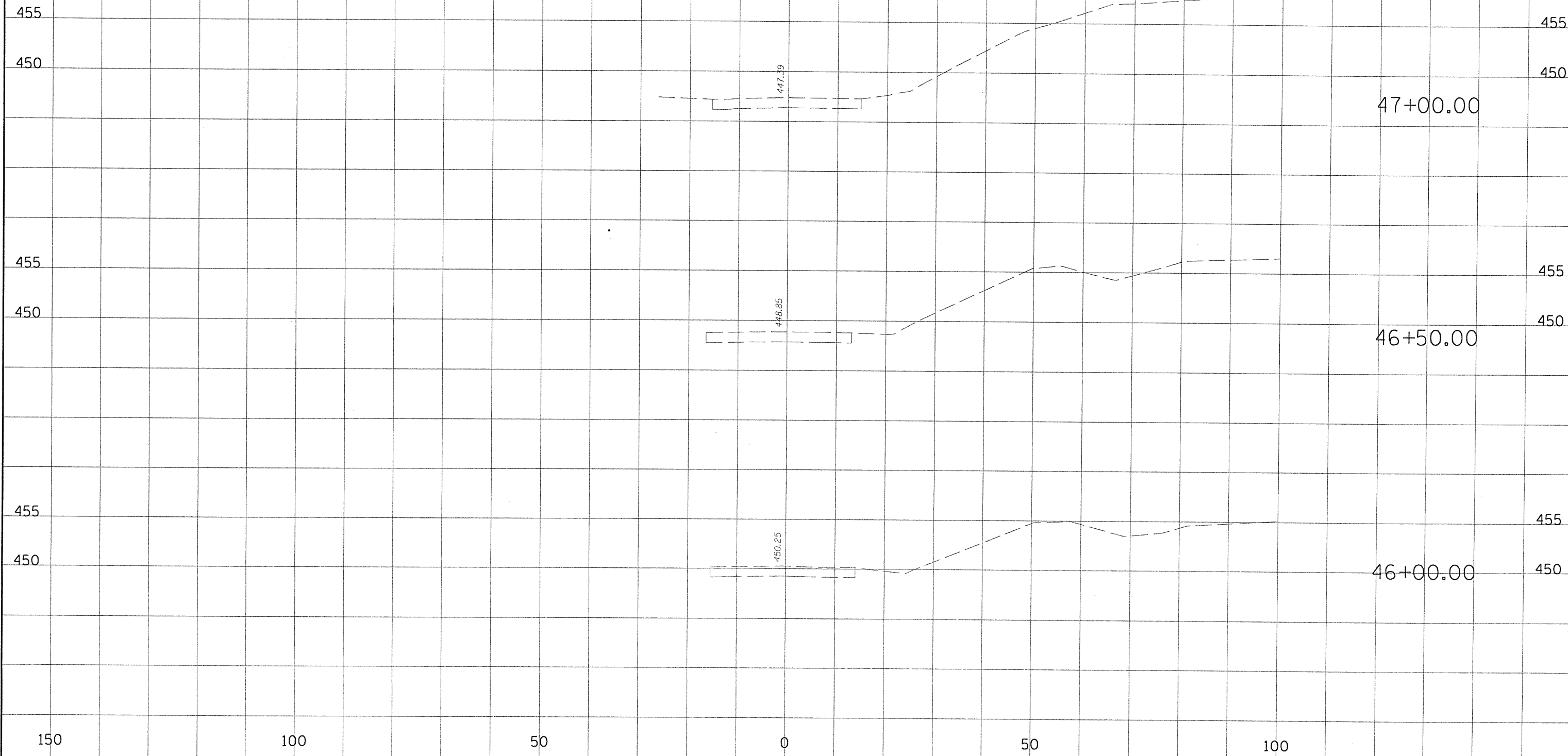
HR
HURST-ROSCHÉ
ENGINEERS, INC.
PROFESSIONAL DESIGN NUMBER: 184-002298

HRE # 365-4048

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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

BEGIN CONSTRUCTION
STA 47+08.77



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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

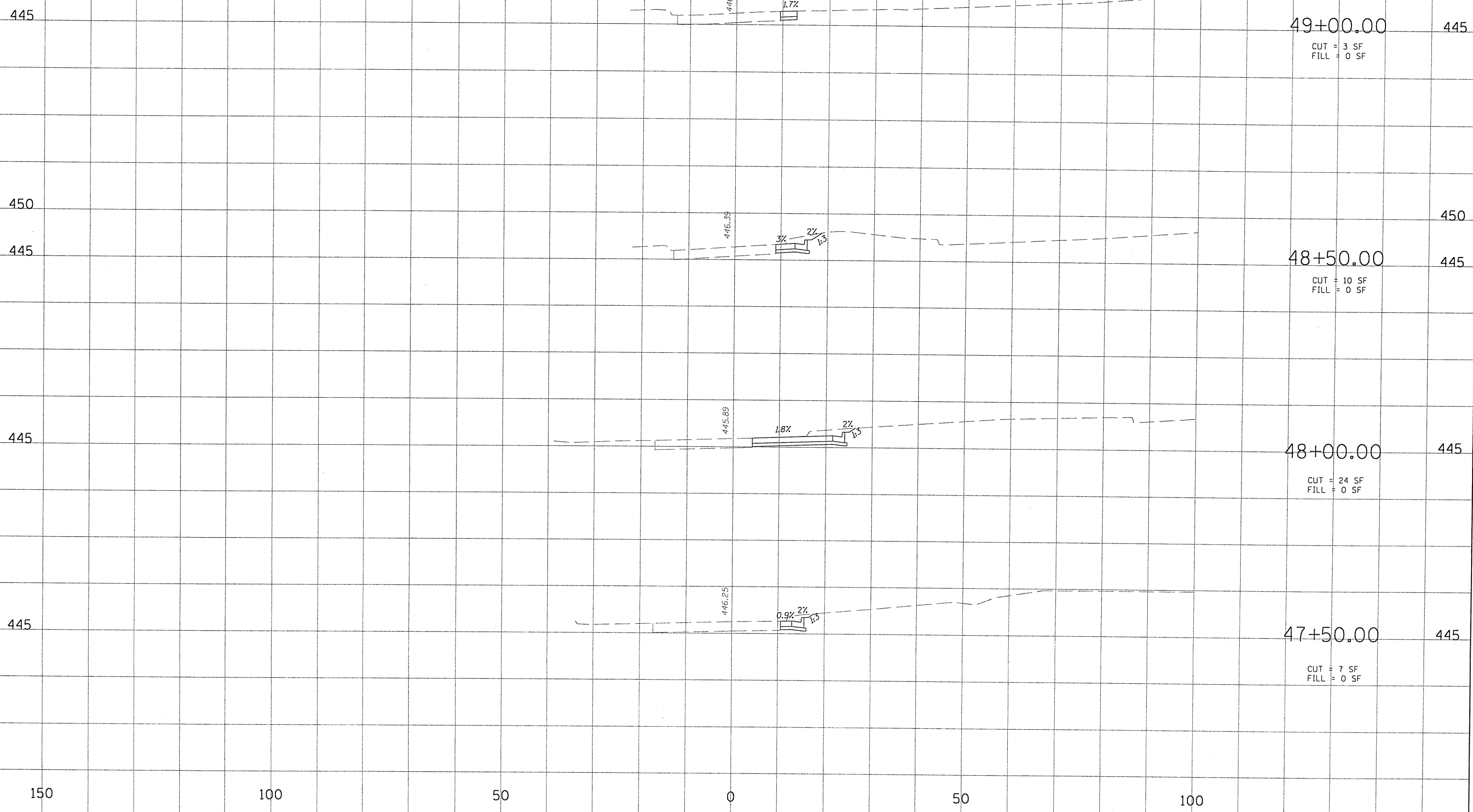
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	JACKSON	35	23
CONTRACT NO. 99425				
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				

FINISH SURVEYED SURVEYED
 SURVEY SURVEY
 NOTE BOOK TEMPLATE
 AREAS AREAS
 CHECKED CHECKED
 NO. NO.

ORIGINAL SURVEYED SURVEYED
 SURVEY SURVEY
 NOTE BOOK TEMPLATE
 AREAS AREAS
 CHECKED CHECKED
 NO. NO.



49+00.00 445
 CUT = 3 SF
 FILL = 0 SF

48+50.00 445
 CUT = 10 SF
 FILL = 0 SF

48+00.00 445
 CUT = 24 SF
 FILL = 0 SF

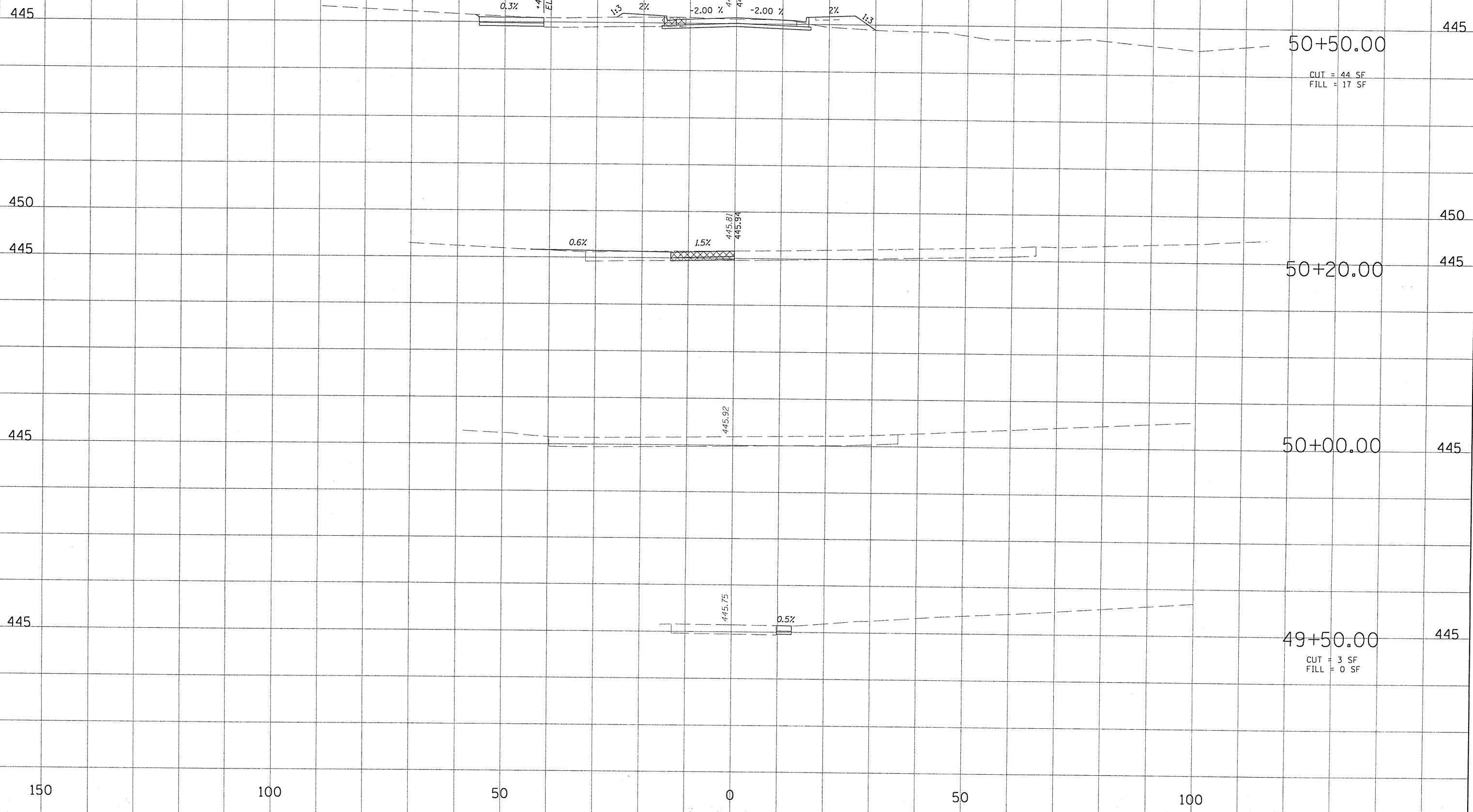
47+50.00 445
 CUT = 7 SF
 FILL = 0 SF

150 100 50 0 50 100

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PLOT DATE = 7/13/2010		DATE -	REVISED -			FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				
SCALE: 1:10/1:5		SHEET NO. 2 OF 13 SHEETS		STA. 47+50.00 TO STA. 49+00.00						

SUBMITTED
 SURVEY BOOK NO. _____
 PLOTTED
 TEMPLATE AREAS CHECKED
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SUBMITTED
 SURVEY BOOK NO. _____
 PLOTTED
 TEMPLATE AREAS CHECKED
 NO. _____



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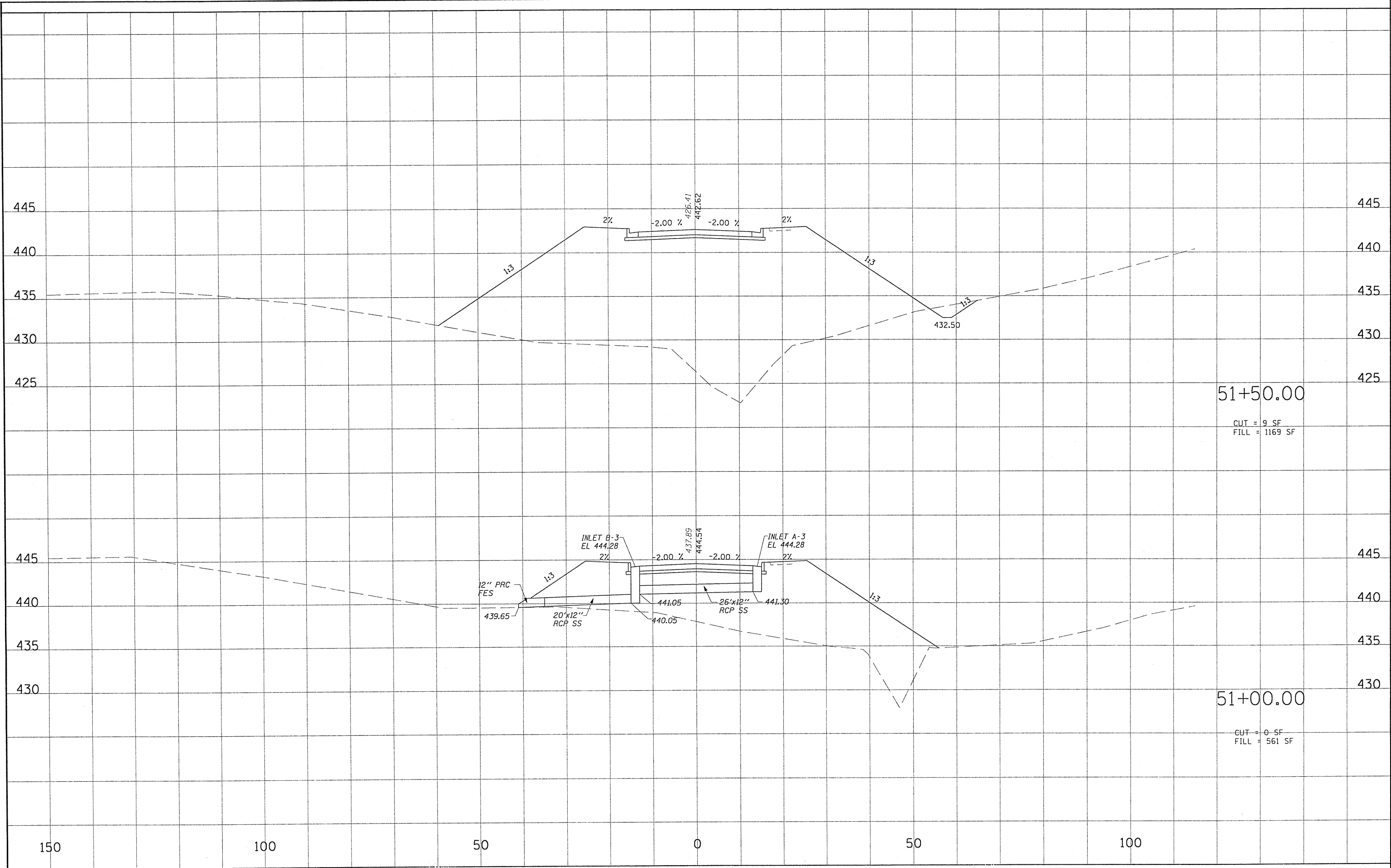
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 99425				
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				

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DESIGNED -
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 DATE -

REVISED -
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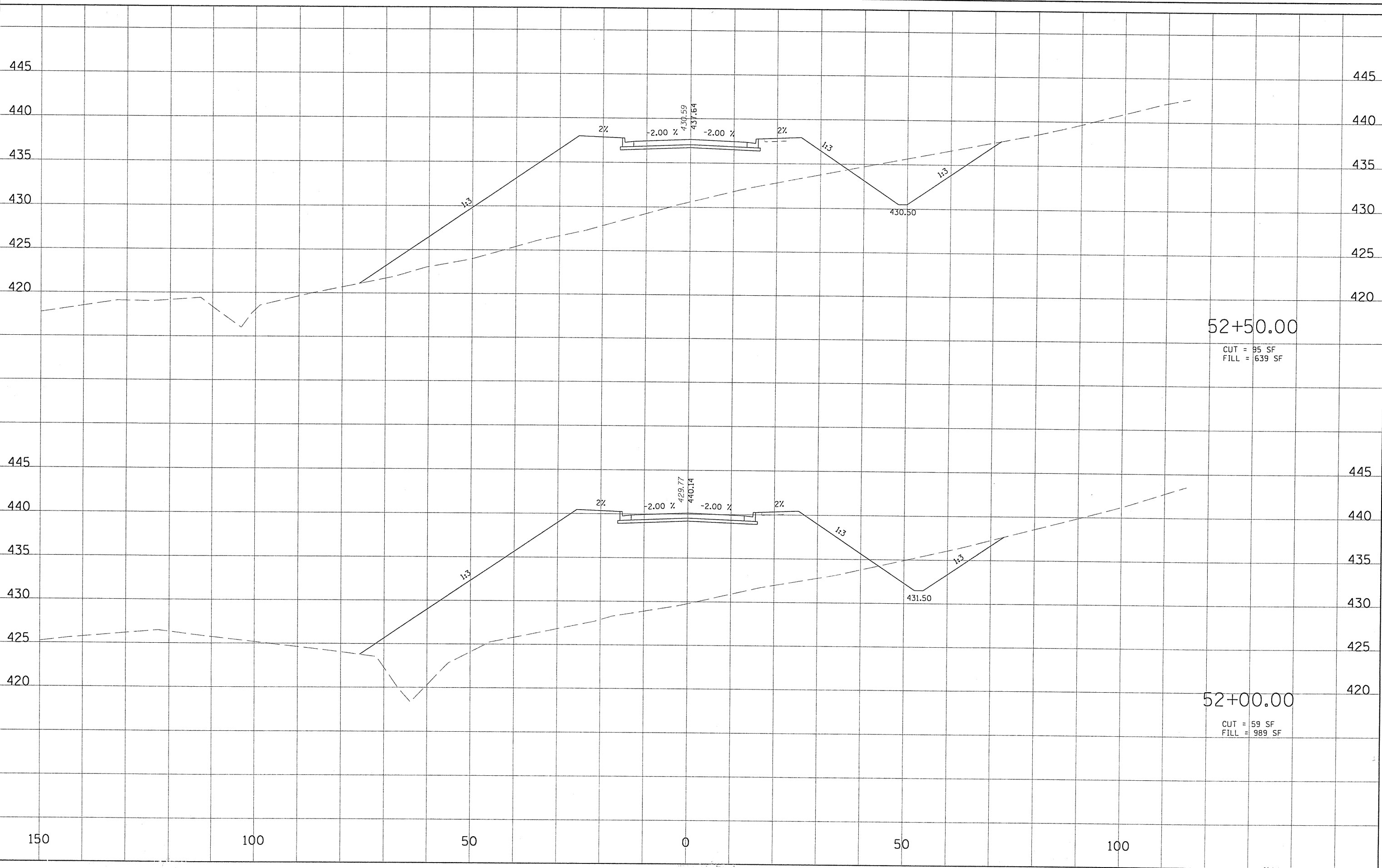
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	JACKSON	35	26
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT			CONTRACT NO. 99425	

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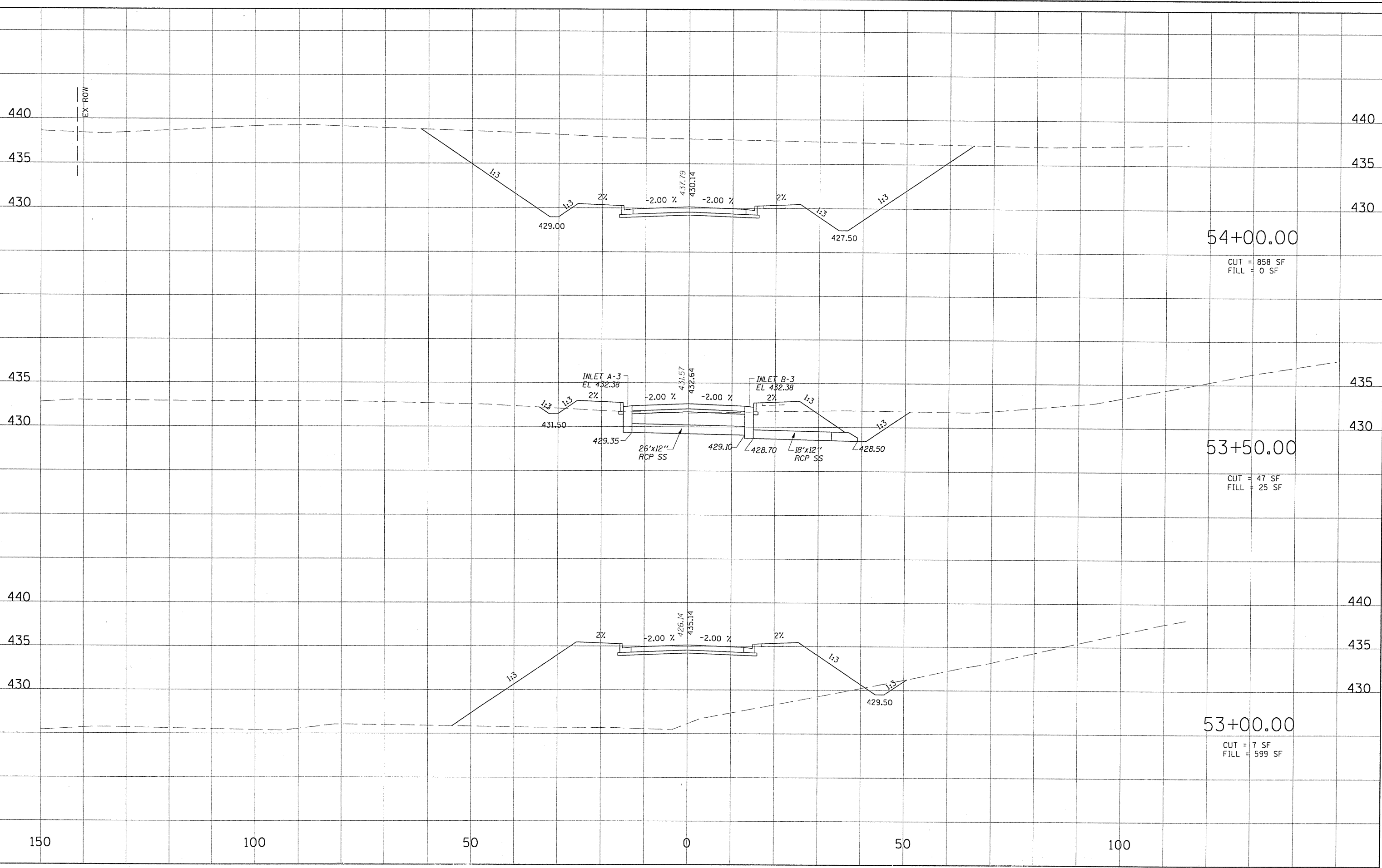
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PLOT DATE = 7/13/2010	DATE -	REVISED -	CONTRACT NO. 99425							
SCALE: 1:10/1:5 SHEET NO. 5 OF 13 SHEETS STA. 52+00.00 TO STA. 52+50.00						FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				

REVISIONS
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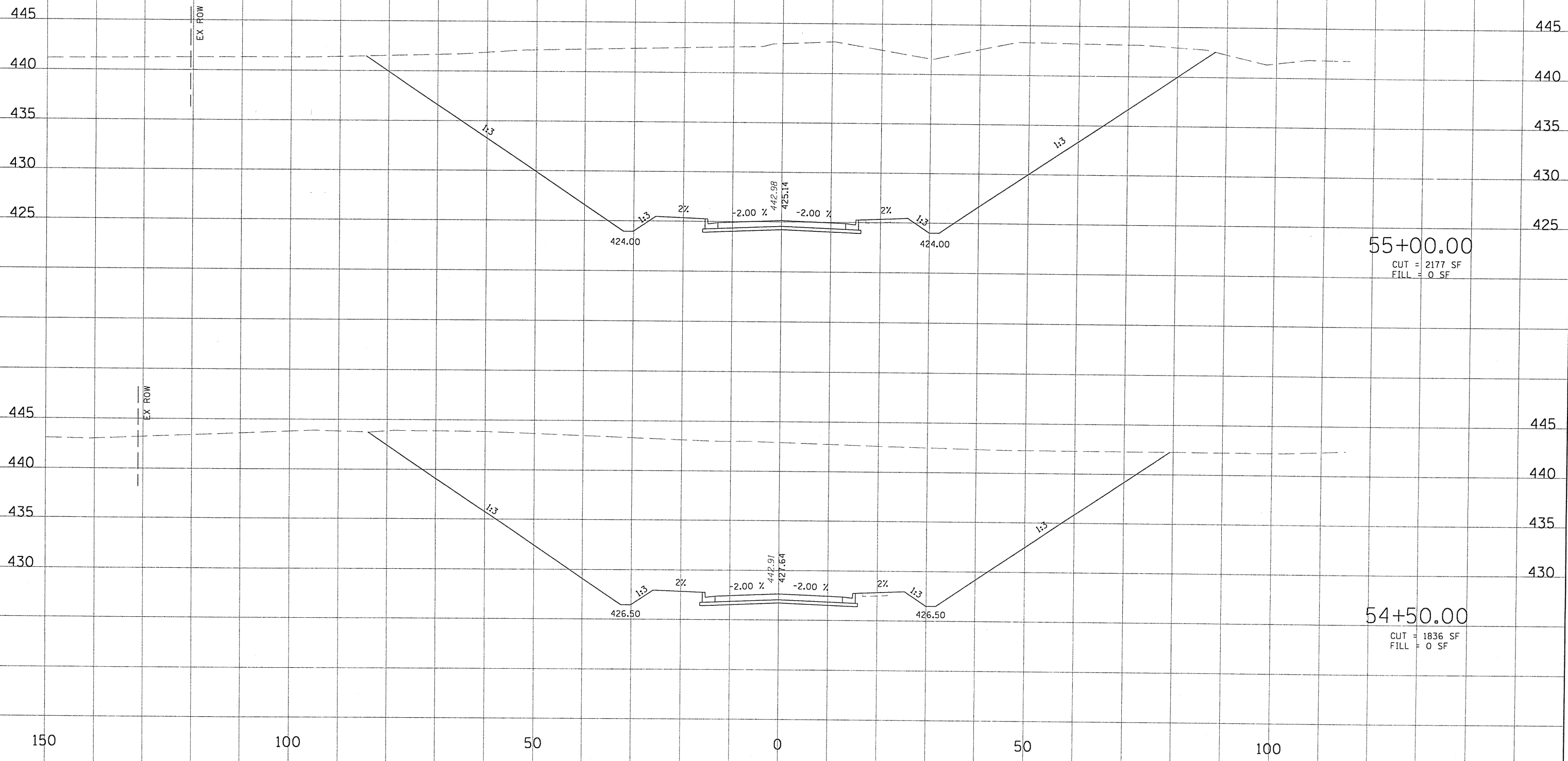
ORIGINAL
 SURVEY
 NOTE BOOK
 NO.



FILE NAME =	USER NAME = HURST-RDSCH	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
tu:\365-4048_SiUC_Research_Park_Phase_11\Dgn\Xsec.dgn	DRAWN -	REVISD -	05-00002-00-RP			JACKSON	35	28		
PLOT SCALE = 20.000' / 1"	CHECKED -	REVISD -	CONTRACT NO. 99425							
PLOT DATE = 7/13/2010	DATE -	REVISD -	FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT							
SCALE: 1:10/1:5		SHEET NO. 6 OF 13 SHEETS		STA. 53+00.00 TO STA. 54+00.00						

FINAL	SURVEYED
SURVEY	PLOTTED
NOTE BOOK	TEMPLATE
AREAS	CHECKED
NO.	

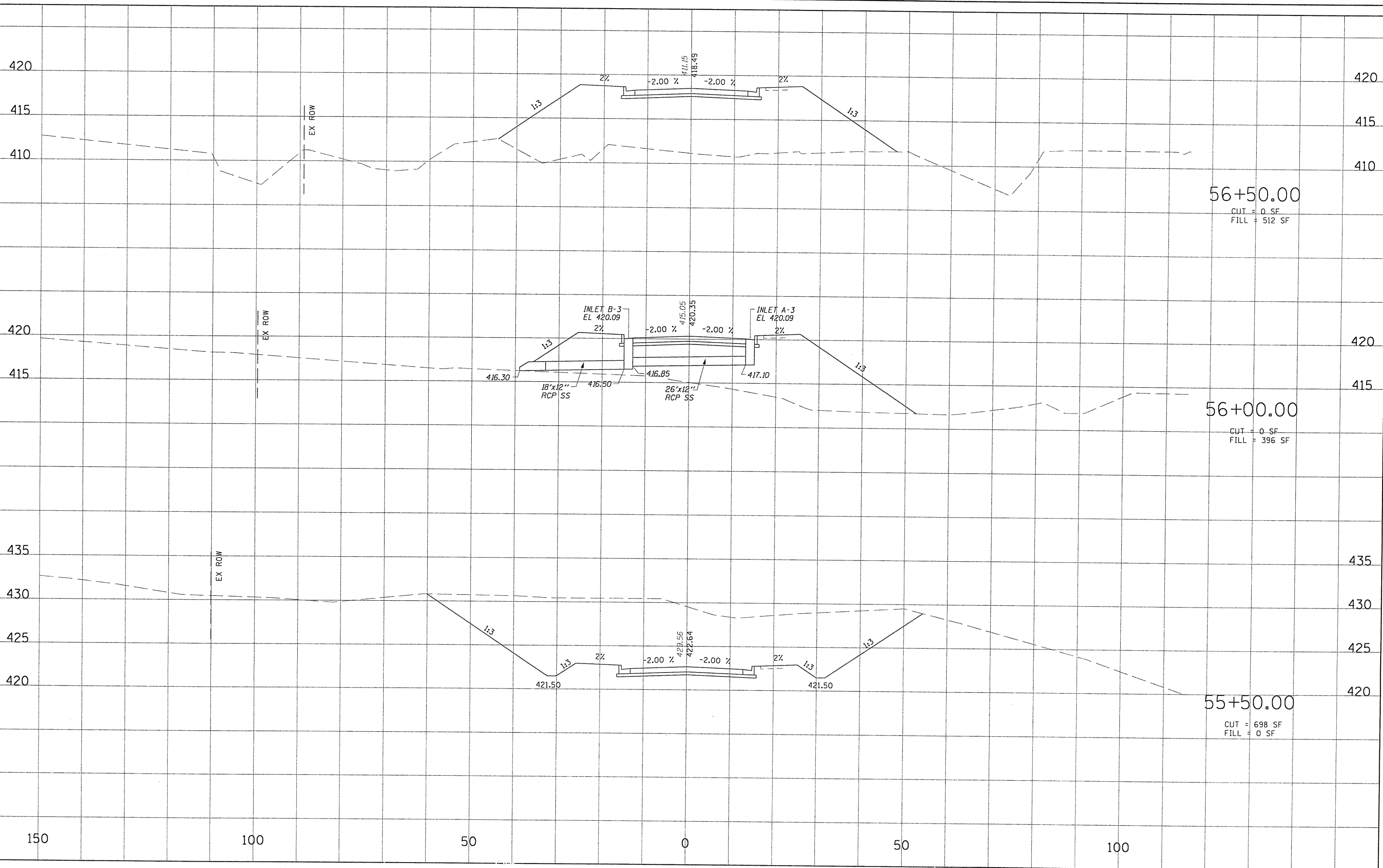
ORIGINAL	SURVEYED
SURVEY	PLOTTED
NOTE BOOK	TEMPLATE
AREAS	CHECKED
NO.	



FILE NAME =	USER NAME = HURST-ROSCHE	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
tu\365-4848_SiUC_Research_Park_Phase_1\1\0gn\ksec.dgn	PLOT SCALE = 28.200' / IN.	DRAWN -	REVISED -			05-00002-00-RP	JACKSON	35	29		
	PLOT DATE = 7/13/2010	CHECKED -	REVISED -			CONTRACT NO. 99425					
						FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT					

FINAL SURVEY NOTE BOOK NO. _____
 SURVEY PLOTTED TEMPLATE AREAS CHECKED

ORIGINAL SURVEY NOTE BOOK NO. _____
 SURVEY PLOTTED TEMPLATE AREAS CHECKED



56+50.00
 CUT = 0 SF
 FILL = 512 SF

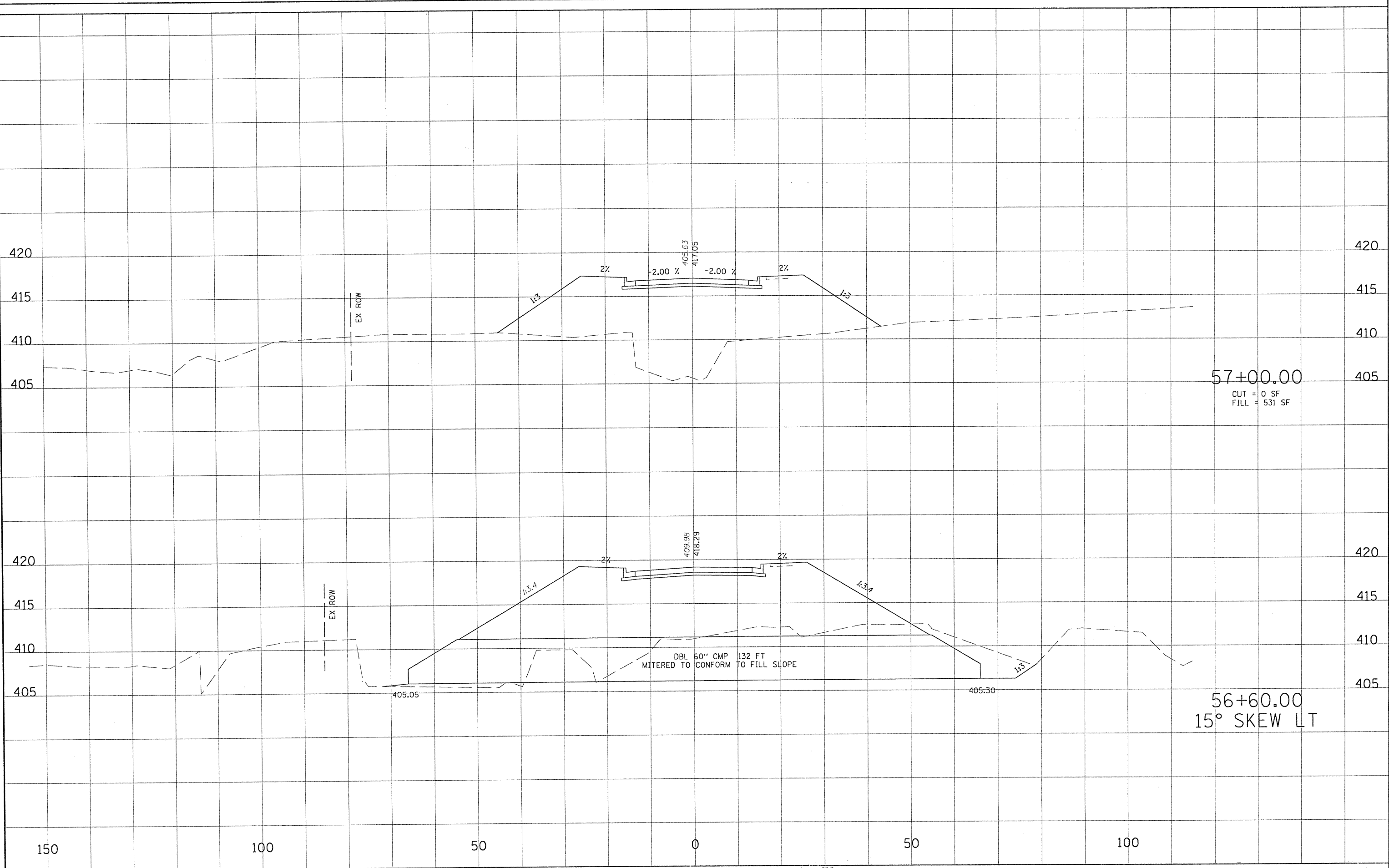
56+00.00
 CUT = 0 SF
 FILL = 396 SF

55+50.00
 CUT = 698 SF
 FILL = 0 SF

FILE NAME =	USER NAME = HURST-ROSCHE	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
tr\365-484B.SIUC.Research.Park.Phase.II\Ogn\Xsec.dgn		DRAWN -	REVISED -			05-00002-00-RP	JACKSON	35	30	
PLOT SCALE = 28.000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 99425				
PLOT DATE = 7/13/2010		DATE -	REVISED -			FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				
SCALE: 1:10/1:5				SHEET NO. 8 OF 13 SHEETS		STA. 55+50.00 TO STA. 56+50.00				

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

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



FILE NAME =
 USER NAME = HURST-ROSCHE
 PLOT SCALE = 20.000' / IN.
 PLOT DATE = 7/13/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

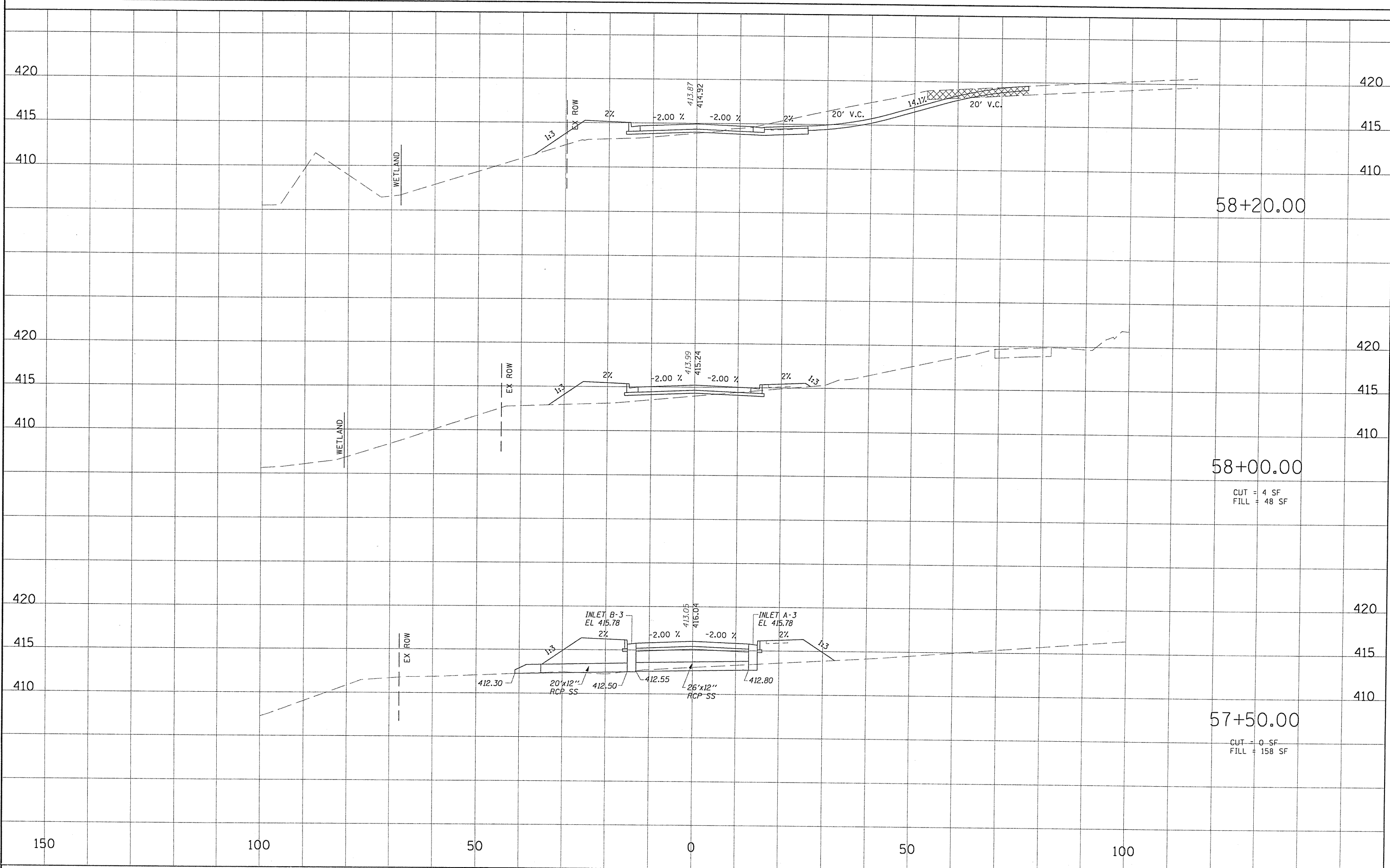
CROSS SECTIONS

SCALE: 1:10/1:5 SHEET NO. 9 OF 13 SHEETS STA. 56+62.00 TO STA. 57+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	JACKSON	35	31
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT			CONTRACT NO. 99425	

FINISHED SURVEY SURVEYED SURVEYED
 NOTE BOOK PLOTTED PLOTTED
 NO. TEMPLATE AREAS CHECKED AREAS CHECKED

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



FILE NAME =	USER NAME = HURST-ROSCHE	DESIGNED -	REVISED -
\\365-4248-SIUC-Research_Park_Phase_II\Dgn\Xsec.dgn		DRAWN -	REVISED -
PLOT SCALE = 28.000' / IN.		CHECKED -	REVISED -
PLOT DATE = 7/13/2010		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

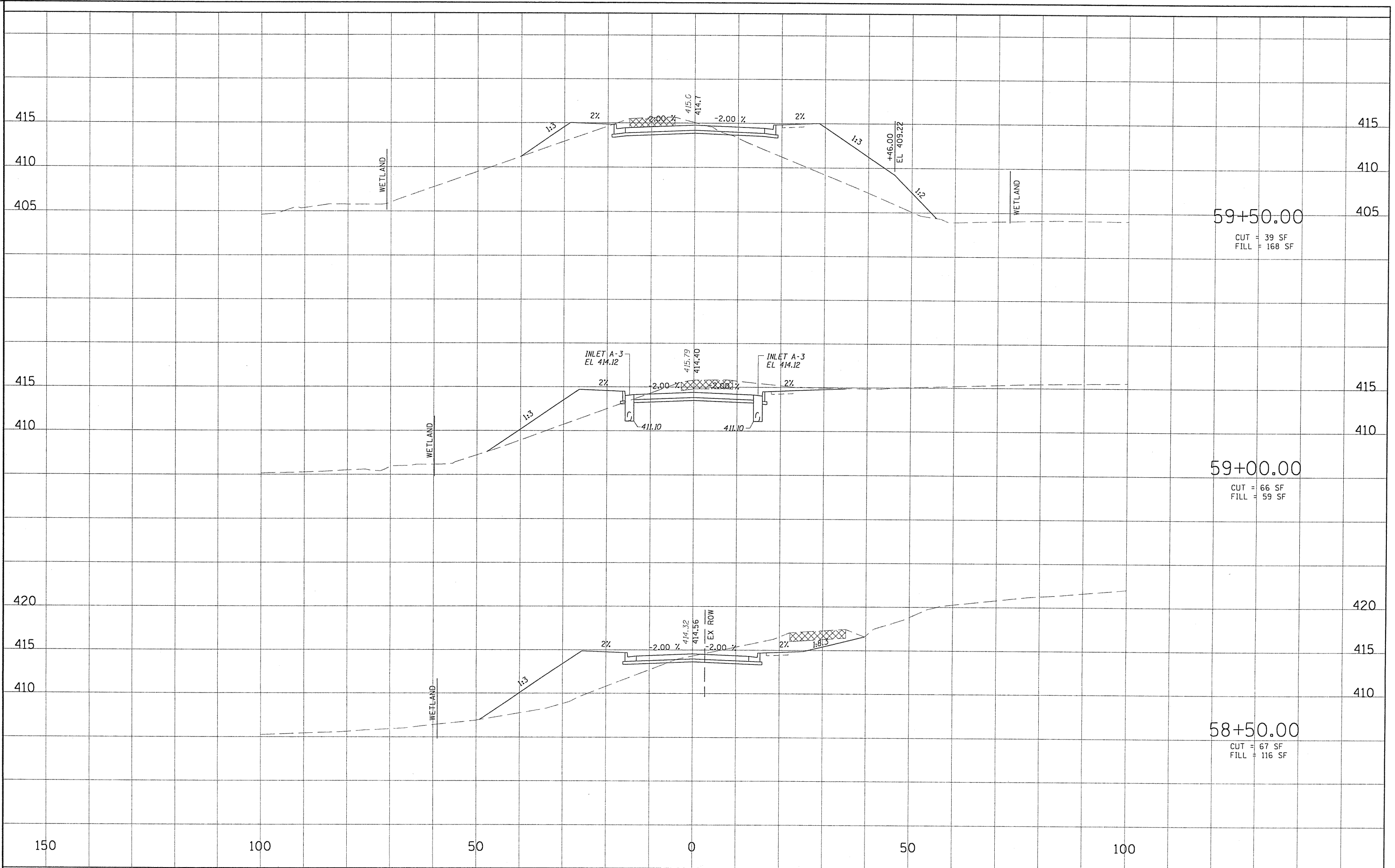
SCALE: 1:10/1:5 SHEET NO. 10 OF 13 SHEETS STA. 57+50.00 TO STA. 58+20.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00002-00-RP	JACKSON	35	32
CONTRACT NO. 99425				

FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT

FINAL SURVEY NO. _____
 SURVEY PLOTTED _____
 NOTE BOOK TEMPLATE AREAS CHECKED _____

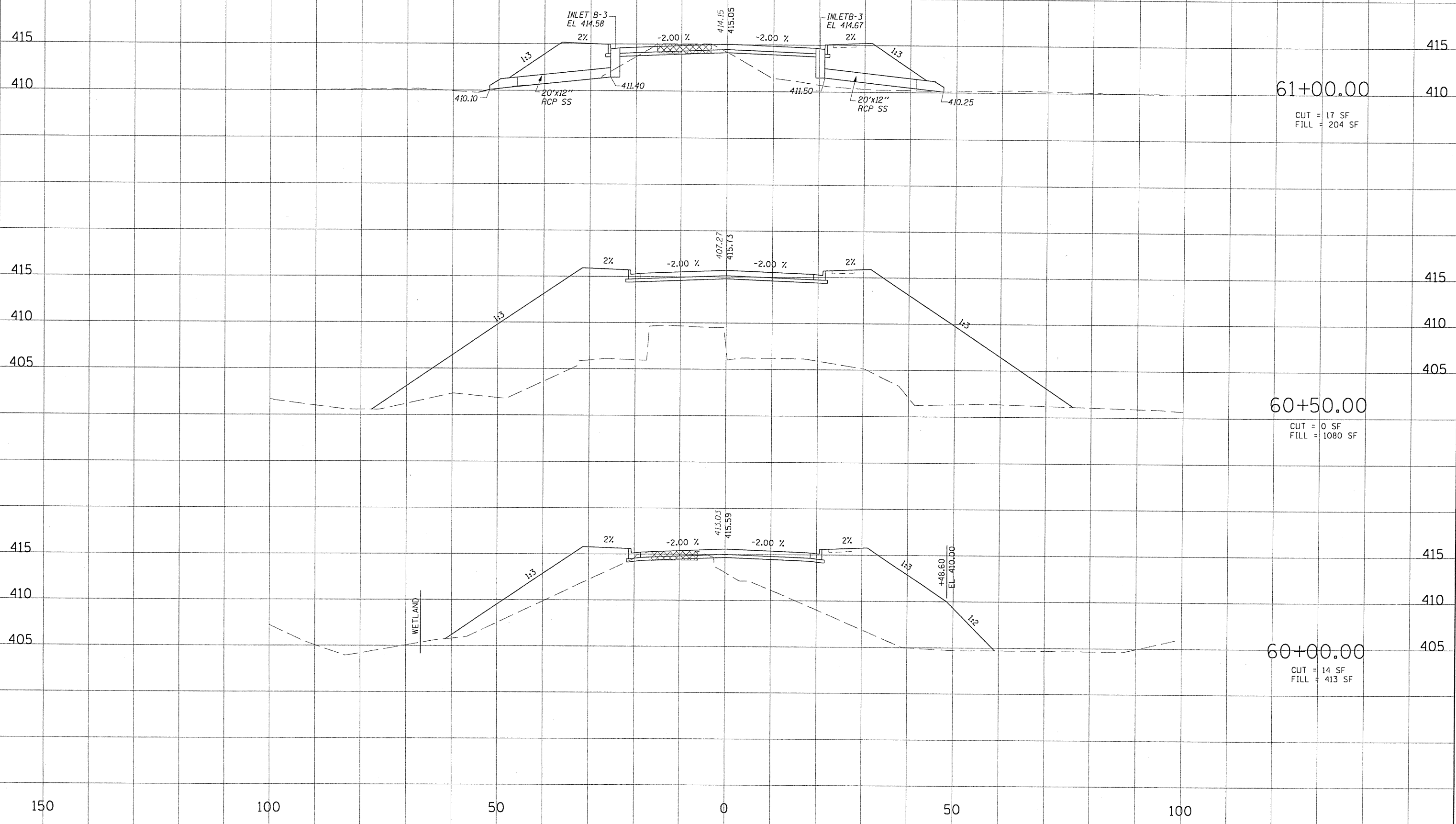
ORIGINAL SURVEY NO. _____
 SURVEY PLOTTED _____
 NOTE BOOK TEMPLATE AREAS CHECKED _____



FILE NAME =	USER NAME = HURST-ROSCHE	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ts\365-4048_SIUC_Research_Park_Phase_11\Dgn\Xsec.dgn	DRAWN -	REVISED -	05-00002-00-RP			JACKSON	35	33		
PLOT SCALE = 28.000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 99425							
PLOT DATE = 7/13/2010	DATE -	REVISED -	FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT							
SCALE: 1:10/1:5		SHEET NO. 11 OF 13 SHEETS		STA. 58+50.00 TO STA. 59+50.00						

FINAL SURVEY SURVEY PLOTTED TEMPLATE AREAS CHECKED NO.

ORIGINAL SURVEY SURVEY PLOTTED TEMPLATE AREAS CHECKED NO.



61+00.00
CUT = 17 SF
FILL = 204 SF

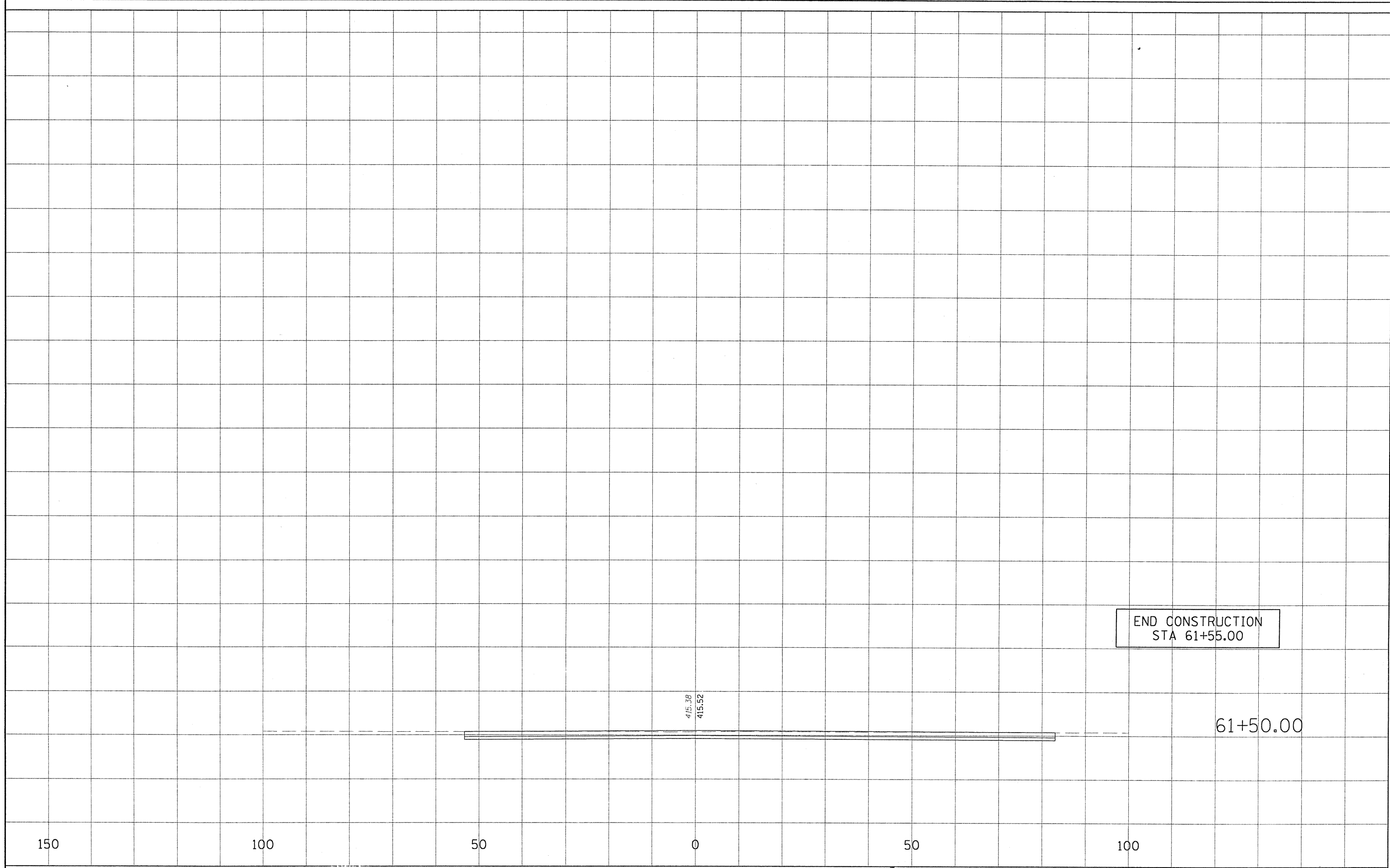
60+50.00
CUT = 0 SF
FILL = 1080 SF

60+00.00
CUT = 14 SF
FILL = 413 SF

FILE NAME =	USER NAME = HURST-ROSCHE	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
u:\365-4848-STUC_Research_Park_Phase_11\Dgn\Xsec.dgn	DRAWN -	REVISIED -	05-00002-00-RP			JACKSON	35	34		
PLOT SCALE = 20.000' / IN.	CHECKED -	REVISIED -	CONTRACT NO. 99425							
PLOT DATE = 7/13/2010	DATE -	REVISIED -	FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT							
SCALE: 1:10/1:5		SHEET NO. 12 OF 13 SHEETS		STA. 60+00.00 TO STA. 61+00.00						

FINAL SURVEY NOTE BOOK NO. _____
 DESIGNED _____
 PLOTTED _____
 TEMPLATE _____
 AREAS CHECKED _____

ORIGINAL SURVEY NOTE BOOK NO. _____
 DESIGNED _____
 PLOTTED _____
 TEMPLATE _____
 AREAS CHECKED _____



END CONSTRUCTION
 STA 61+55.00

61+50.00

150

100

50

0

50

100

FILE NAME * t:\365-4048-SIUC_Research_Park_Phase_11\0gn\vsr.dgn	USER NAME * HURST-RDSCH	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20.000' / IN.	CHECKED -	REVISD -	05-00002-00-RP			JACKSON	35	35		
PLOT DATE = 7/13/2010	DATE -	REVISD -	CONTRACT NO. 99425							
SCALE: 1:10/1:5 SHEET NO. 13 OF 13 SHEETS STA. 61+50.00 TO STA. 61+50.00 FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT										