

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	10-00073-00-SW	LAKE	75	1
		ILLINOIS	CONTRACT NO. 63467	

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

## PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

**FAU 184 (HAWTHORNE DRIVE) PEDESTRIAN WAY  
FAU 192 (CEDAR LAKE RD.) TO POPLAR AVE.  
AND  
ORCHARD LANE PEDESTRIAN WAY  
ROLLINS RD. TO HOOK DRIVE  
AND  
HOOK DRIVE PEDESTRIAN WAY  
ORCHARD LANE TO FAP 866 (IL ROUTE 83)**

**SECTION: 10-00073-00-SW  
PROJECT: CMM-9003(708)  
VILLAGE OF ROUND LAKE BEACH  
LAKE COUNTY  
JOB NO. C-91-030-11**



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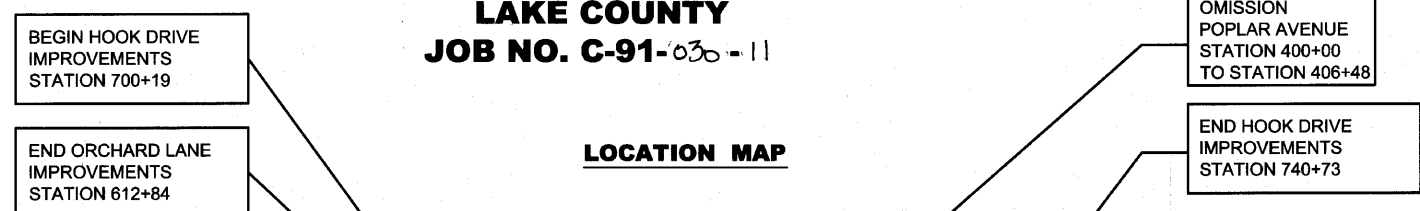
**DESIGN DESIGNATION**

HAWTHORNE DRIVE: 200 (30) COLLECTOR 0.09 (HMA-20)  
ORCHARD LANE: 500 (30) LOCAL ROAD 0.22 (HMA-20)  
HOOK DRIVE: 1000 (30) LOCAL ROAD 0.43 (HMA-20)

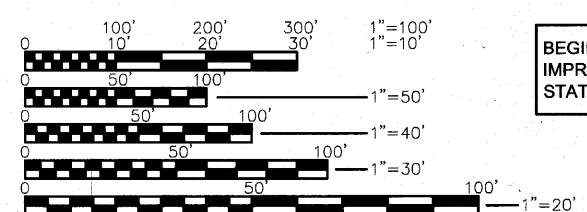
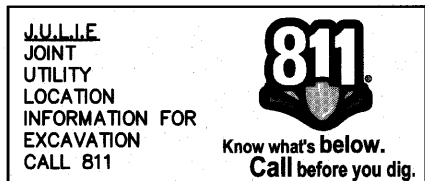
STREET	SPEED LIMIT	
	POSTED	DESIGN
HAWTHORNE DRIVE	20 /25 MPH*	30 MPH
ORCHARD LANE	30 MPH	30 MPH
HOOK DRIVE	35 MPH	35 MPH
	*20 MPH (SCHOOL ZONE)	

STREET	ADT	
	2010	2030
HAWTHORNE DRIVE	1850 VPD	2450 VPD
ORCHARD LANE	3867 VPD	5000 VPD
HOOK DRIVE	7742 VPD	10000 VPD



PROJECT IS LOCATED IN THE VILLAGE OF ROUND LAKE BEACH



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.

**PROJECT LENGTH**  
TOTAL GROSS LENGTH= 9717 FT. (1.840 MI)  
TOTAL OMISSION LENGTH= 648 FT. (0.123 MI)  
TOTAL NET LENGTH= 9069 FT. (1.717 MI)

**DEVERY ENGINEERING, Inc.**  
Consulting Engineers

**PROFESSIONAL ENGINEER'S SIGN & SEAL**

ROBERT J. DEVERY, P.E.  
EXPIRES: 11/30/11

APPROVED *August 30, 2010*  
MAYOR  
ROUND LAKE BEACH

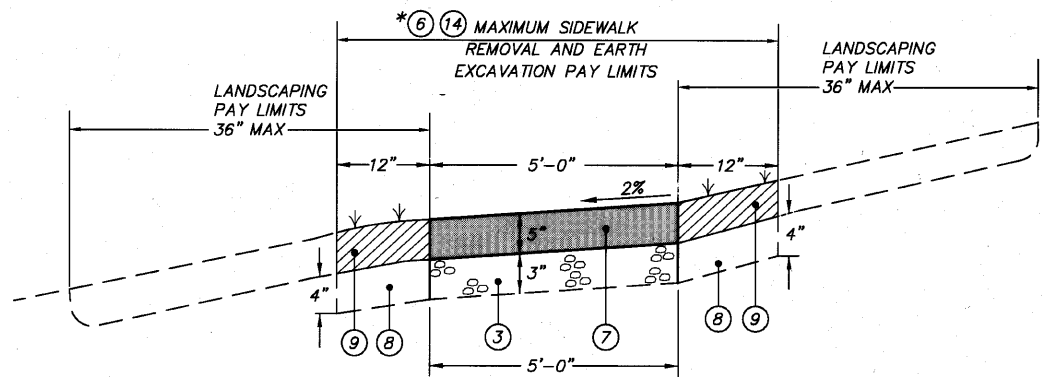
PASSED *SEPTEMBER 2, 2010*  
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED REVIEW *August 31, 2010*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

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OF THE STATE OF ILLINOIS**

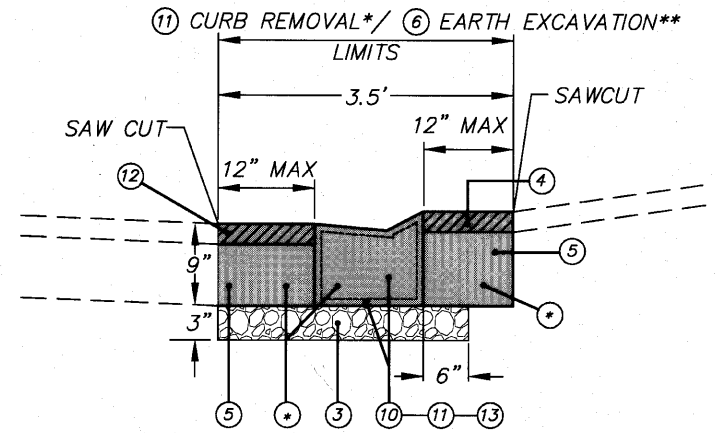
PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE P.E. (847) 705-4406 SCHAUMBURG, IL





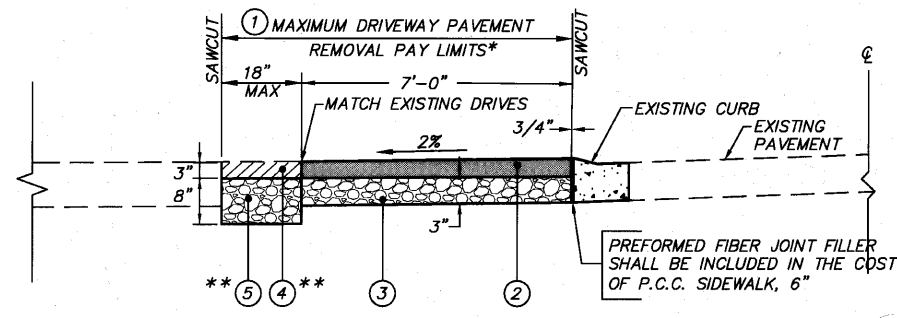
\* PAY ITEM = EARTH EXCAVATION WHERE THERE IS NO EXISTING SIDEWALK  
 = SIDEWALK REMOVAL WHERE THERE IS SIDEWALK.

**TYPICAL PROPOSED SECTION - SIDEWALK THROUGH TURF**  
 NOT TO SCALE



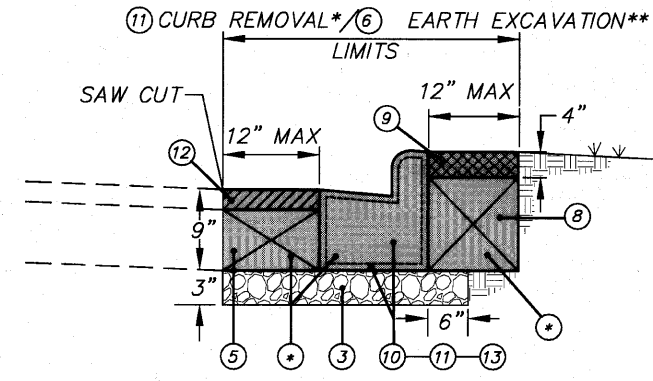
**TYPICAL CURB INSTALLATION ADJACENT TO DRIVEWAY**

- Legend**
- ① CURB REMOVAL/EARTH EXCAVATION LIMITS SHALL INCLUDE 12 INCHES IN FRONT AND BACK OF NEW CURB TO SUBGRADE ELEVATION.
  - ① PROPOSED DRIVEWAY PAVEMENT REMOVAL
  - ② PROPOSED PCC SIDEWALK, 6"
  - ③ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B
  - ④ PROPOSED HMA DRIVEWAY PAVEMENT, 3"
  - ⑤ PROPOSED AGGREGATE BASE COURSE, TY B (CRUSHED)
  - ⑥ PROPOSED EARTH EXCAVATION
  - ⑦ PROPOSED PCC SIDEWALK, 5"
  - ⑧ SUITABLE EXCAVATED MATERIAL BACKFILL
  - ⑨ PROPOSED LANDSCAPING:
    - TOPSOIL FURNISH AND PLACE, 3"
    - SEEDING, CLASS 1
    - MULCH, METHOD 3
  - ⑩ EXISTING CURB (WHERE PRESENT)
  - ⑪ PROPOSED CURB REMOVAL (WHERE PRESENT)
  - ⑫ a) HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"  
 b) HOT MIX ASPHALT SURFACE COURSE, MIX C, N50, 1 1/2"
  - \*\*\*⑬ PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPB-6.12
  - ⑭ SIDEWALK REMOVAL



**SIDEWALK ADJACENT TO CURB DETAIL**  
 NOT TO SCALE

\*\* DETAIL SECTION SHOWN IS THROUGH DRIVEWAY FOR SIDEWALK THROUGH TURF REPLACE ④ & ⑤ WITH ⑨



**TYPICAL CURB INSTALLATION ADJACENT TO LAWN**

\* WHERE EXISTING AND PROPOSED CURB ARE NOT IN SAME ALIGNMENT CURB REMOVAL SHALL BE MEASURED FROM 12 INCHES IN FRONT OF NEW CURB TO 12" IN BACK OF NEW CURB OR TO THE BACK OF THE OLD CURB WHICHEVER IS GREATER.  
 \*\* PAY ITEM = CURB REMOVAL WHERE THERE IS CURB = EARTH EXCAVATION WHERE THERE IS NO CURB  
 \*\*\* GUTTER FLAGS SHALL BE 9" THICK UNLESS NOTED OTHERWISE

**DESIGN DESIGNATION**

HAWTHORNE DRIVE: 200 (30) COLLECTOR 0.09 (HMA-20)  
 ORCHARD LANE: 500 (30) LOCAL ROAD 0.22 (HMA-20)  
 HOOK DRIVE: 1000 (30) LOCAL ROAD 0.43 (HMA-20)

**STREET**

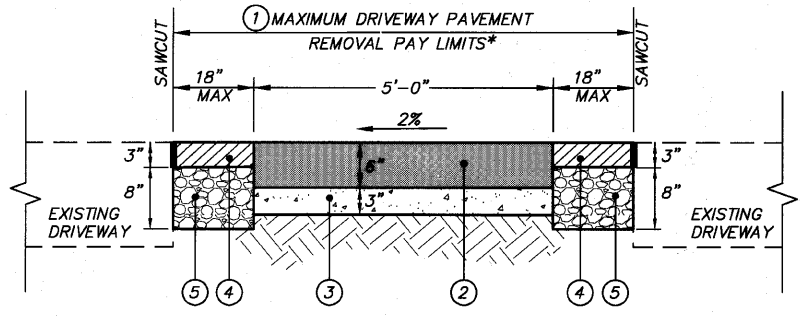
HAWTHORNE DRIVE  
 ORCHARD LANE  
 HOOK DRIVE

	SPEED LIMIT	
	POSTED	DESIGN
HAWTHORNE DRIVE	20 / 25 MPH*	30 MPH
ORCHARD LANE	30 MPH	30 MPH
HOOK DRIVE	35 MPH	35 MPH
	*20 MPH (SCHOOL ZONE)	

**STREET**

HAWTHORNE DRIVE  
 ORCHARD LANE  
 HOOK DRIVE

	ADT	
	2010	2030
HAWTHORNE DRIVE	1850 VPD	2450 VPD
ORCHARD LANE	3867 VPD	5000 VPD
HOOK DRIVE	7742 VPD	10000 VPD



**TYPICAL PROPOSED SECTION - SIDEWALK THROUGH HMA DRIVEWAY**

NOT TO SCALE

\* DRIVEWAY PAVEMENT REMOVAL SHALL INCLUDE ALL HMA AND AGGREGATE AND EARTH MATERIALS TO REMOVE AND DISPOSE OF TO THE TOP OF PROPOSED SUBGRADE

HOT MIX ASPHALT MIXTURE REQUIREMENT	
MIXTURE TYPE	AIR VOIDS @ NDES
<b>PAVEMENT PATCHING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm)	4% @ 50 GYR
HOT-MIX BINDER COURSE, N50, IL-19.0	4% @ 50 GYR
<b>DRIVEWAYS</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50 (IL-9.5mm)	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

PCC SIDEWALK SCHEDULE		
STATION	(SF) 5"	(SF) 6"
<b>A. HAWTHORNE</b>		
100+25 - 100+45 RT	163	
100+78 - 101+57 LT	801	
101+57 - 101+80 LT		167
101+80 - 102+08 LT	204	
102+08 - 102+36 LT		172
102+36 - 103+57 LT	683	
103+57 - 104+88 LT	578	
105+02 - 105+99 LT	524	
105+99 - 106+23 LT		92
106+23 - 107+42 LT	618	
107+42 - 110+07 LT	1198	
110+07 - 111+15 LT	431	
111+15 - 112+00 LT	336	
112+00 - 112+14 LT		77
112+14 - 113+03 LT	451	
113+03 - 113+31 LT	23	
114+86 - 115+08 LT	115	
115+08 - 115+64 LT	87	
116+20 - 116+42 LT	105	
116+42 - 116+63 LT	23	
117+13 - 117+38 LT	123	
118+35 - 118+82 LT	247	
119+00 - 119+06 LT	30	
119+06 - 119+22 LT	43	
119+22 - 119+55 LT	24	
122+59 - 122+64 LT	25	
122+64 - 123+12 LT	77	
123+12 - 125+19 LT	1200	
123+19 - 123+93 LT	18	
125+19 - 125+53 LT		170
125+53 - 126+80 LT	630	
127+07 - 129+03 LT	973	
129+03 - 129+14 LT		74
129+14 - 130+43 LT	662	
130+43 - 131+92 LT	587	
132+10 - 133+66 LT	779	
133+66 - 134+26 LT	190	
134+26 - 135+92 LT	707	
135+92 - 136+11 LT		100
136+11 - 136+94 LT	406	
136+94 - 137+12 LT		95
137+12 - 137+20 LT	26	
137+20 - 137+98 LT	444	
<b>A. TOTAL (HAWTHORNE)</b>	<b>13511</b>	<b>947</b>

PCC SIDEWALK SCHEDULE		
STATION	(SF) 5"	(SF) 6"
<b>B. ORCHARD</b>		
600+31 - 600+40 LT	48	
600+40 - 600+59 LT	60	
600+59 - 600+58 RT	38	
603+21 - 603+31 RT	47	
603+31 - 603+80 RT	48	
608+04 - 608+14 RT	50	
608+14 - 608+58 RT	50	
611+39 - 611+48 RT	33	
612+06 - 612+13 RT	42	
<b>B. TOTAL</b>	<b>416</b>	<b>0</b>

PCC SIDEWALK SCHEDULE		
STATION	(SF) 5"	(SF) 6"
<b>C. HOOK</b>		
700+25 - 700+32 RT	46	
700+32 - 717+61 LT	8710	
717+61 - 722+73 LT	2399	
722+73 - 723+44 LT	219	
723+44 - 723+64 LT		103
723+64 - 726+49 LT	1436	
726+49 - 732+25 LT	2861	
732+25 - 734+93 RT	1428	
732+81 - 735+82 LT	1466	
735+82 - 735+73 RT	227	
735+73 - 736+34 RT	263	
735+90 - 737+79 LT	1008	
738+02 - 738+25 LT	179	
738+25 - 740+19 LT	1042	
739+68 - 739+72 RT	17	
740+68 - 740+73 LT	33	
<b>C. TOTAL</b>	<b>21150</b>	<b>103</b>
<b>MISCELLANEOUS</b>	<b>939</b>	<b>100</b>
<b>A+B+C+MISC. TOTAL</b>	<b>36000</b>	<b>1150</b>

DETECTABLE WARNING SCHEDULE	
STATION	(SF) AREA
<b>A. HAWTHORNE</b>	
100+37 RT	10
100+70 LT	10
103+50 LT	10
104+09 LT	10
107+36 LT	10
107+70 LT	10
110+05 LT	10
110+35 LT	10
112+99 LT	10
113+28 LT	10
119+16 LT	10
119+53 LT	10
122+62 LT	10
112+97 LT	10
123+06 LT	10
123+36 LT	10
126+76 LT	10
127+10 LT	10
130+36 LT	10
130+77 LT	10
134+18 LT	10
134+53 LT	10
137+95 LT	10
<b>(A) TOTAL</b>	<b>230</b>

DETECTABLE WARNING SCHEDULE	
STATION	(SF) AREA
<b>B. ORCHARD</b>	
600+35 LT	10
600+52 LT	10
600+53 RT	10
603+29 RT	10
603+72 RT	10
608+12 RT	10
608+50 RT	10
611+43 RT	10
612+09 RT	10
<b>(B) TOTAL</b>	<b>90</b>

DETECTABLE WARNING SCHEDULE	
STATION	(SF) AREA
<b>C. HOOK</b>	
700+28 RT	10
700+30 LT	10
717+57 LT	10
717+99 LT	10
722+70 LT	10
723+03 LT	10
728+44 LT	10
726+86 LT	10
732+18 LT	10
732+20 RT	10
732+90 LT	10
734+90 RT	10
735+31 RT	10
737+73 LT	10
738+03 LT	10
738+23 LT	10
738+59 LT	10
739+69 RT	10
739+94 LT	10
740+16 LT	10
740+71 LT	10
<b>(C) TOTAL</b>	<b>210</b>
<b>MISCELLANEOUS</b>	<b>80</b>
<b>A+B+C+MISC. TOTAL</b>	<b>610</b>

THERMOPLASTIC PAVEMENT MARKING SCHEDULE				
STATION	4" (FT)	6" (FT)	12" (FT)	24" (FT)
<b>A. HAWTHORNE</b>				
100+41 CL		63		
100+47 CL		51		
100+66 LT				22
100+78 LT	100			
103+69 LT				15
103+77 LT	100			
103+79 LT		58		
103+79 LT		41		
107+49 LT				12
107+55 LT	100			
107+55 LT		28		
107+55 LT		24		
110+12 LT				8
110+16 LT	100			
110+20 LT		27		
110+20 LT		23		
113+06 LT				10
113+15 LT	100			
113+16 LT		27		
113+16 LT		21		
119+32 LT				14
119+36 LT		32		
119+36 LT		28		
119+40 LT	100			
122+70 RT			60	
122+73 RT	200			
122+79 LT		31		
122+79 LT		30		
122+87 LT				16
122+87 RT				20
123+21 LT		28		
123+21 LT		20		
123+27 CL				57
123+50 RT	100			
126+88 LT				12
126+94 LT	100			
126+94 LT		31		
126+94 LT		27		
130+53 LT				12
130+58 LT	100			
130+58 LT		29		
130+58 LT		39		
134+34 LT				11
134+39 LT	100			
134+39 LT		22		
134+39 LT		29		
138+00 LT				12
138+06 LT	100			
<b>TOTAL A (HAWTHORNE)</b>	<b>1300</b>	<b>709</b>		<b>226</b>

THERMOPLASTIC PAVEMENT MARKING SCHEDULE				
STATION	4" (FT)	6" (FT)	12" (FT)	24" (FT)
<b>C. HOOK</b>				
700+26 CL		68		
700+32 CL		56		
700+36 LT				26
700+61 CL	100			
717+71 LT				12
717+77 LT	100			
717+78 LT		36		
717+78 LT		29		
722+81 LT				10
722+86 LT	100			
722+87 LT		22		
722+87 LT		27		
726+58 LT				13
726+66 LT	100			
726+66 LT		29		
726+66 LT		35		
732+17 CL		45		
732+20 CL			99	
732+23 CL		49		
732+42 LT				22
732+54 LT		51		
732+54 LT		65		
732+54 LT	100			
735+08 RT	100			
735+11 RT		35		
735+11 RT		29		
735+13 RT				13
737+88 LT		18		
737+95 LT				18
738+68 LT		20		
738+40 LT		19		
738+40 LT		24		
739+42 CL	100			
739+76 RT				29
739+80 CL		62		
739+83 CL			118	
739+86 CL		68		
740+37 LT				37
740+43 LT		58		
740+43 LT				115
740+43 LT		60		
<b>TOTAL C (HOOK)</b>	<b>700</b>	<b>897</b>	<b>332</b>	<b>177</b>
<b>A+C TOTAL</b>	<b>2000</b>	<b>1606</b>	<b>392</b>	<b>403</b>

HMA DRIVEWAY REMOVAL/REPLACEMENT SCHEDULE		
STATION	(SY) DRIVEWAY REMOVAL	(SY) DRIVEWAY REPLACEMENT
<b>A. HAWTHORNE</b>		
101+57 - 101+80 LT	22.3	3.3
102+08 - 102+36 LT	27.8	3.7
105+98 - 106+23 LT	16.5	6.2
112+00 - 112+14 LT	14.0	5.4
129+03 - 129+14 LT	13.0	4.9
131+89 - 132+13 LT	16.0	
135+92 - 136+11 LT	38.3	27.3
136+94 - 137+12 LT	34.2	23.7
<b>A TOTAL (HAWTHORNE)</b>	<b>182.1</b>	<b>74.5</b>
<b>C. HOOK</b>		
723+44 - 723+64 LT	18.4	7.0
<b>C TOTAL (HOOK)</b>	<b>18.4</b>	<b>7.0</b>
MISCELLANEOUS	179.5	48.5
<b>A+C+MISC. TOTAL</b>	<b>380.0</b>	<b>130.0</b>

ORNAMENTAL FENCE (THREE RAIL) SCHEDULE	
STATION	(FT) LENGTH
<b>C. HOOK DRIVE</b>	
738+54 - 739+99 LT	177
<b>C TOTAL (HOOK)</b>	<b>177</b>

CHAIN LINK FENCE, 4' SCHEDULE	
STATION	(FT) LENGTH
<b>C. HOOK DRIVE</b>	
733+34 - 734+34 LT	100
735+49 - 736+94 LT	107
<b>C TOTAL (HOOK)</b>	<b>207</b>

PCC DRIVEWAY REMOVAL/REPLACEMENT SCHEDULE		
STATION	(SY) REMOVAL	(SY) REPLACEMENT
<b>A. HAWTHORNE</b>		
104+88 - 105+02 LT	35.1	35.1
111+15 - 111+32 LT	19.6	19.6
131+89 - 132+13 LT	16.4	32.6
133+66 - 133+87 LT	53.7	53.7
<b>TOTAL A (HAWTHORNE)</b>	<b>124.8</b>	<b>141.0</b>
MISCELLANEOUS		4
<b>A+MISC. TOTAL</b>	<b>124.8</b>	<b>145.0</b>

CURB REMOVAL/REPLACEMENT SCHEDULE		
STATION	(FT) CURB REMOVAL	(FT) COM CONC C&G TY B-6.12
<b>A. HAWTHORNE</b>		
100+33 - 100+43 RT	10	10
100+66 - 100+70 LT	10	10
<b>TOTAL A (HAWTHORNE)</b>	<b>20</b>	<b>20</b>
<b>C. HOOK</b>		
717+59 - 717+64 LT	10	10
717+92 - 717+98 LT	10	10
722+70 - 722+75 LT	10	10
722+97 - 723+02 LT	10	10
726+45 - 726+50 LT	10	10
726+80 - 726+85 LT	10	10
732+16 - 732+24 LT	12	12
732+16 - 732+26 RT	10	10
732+80 - 732+85 LT	10	10
734+90 - 734+94 RT	10	10
735+25 - 735+30 RT	10	10
737+75 - 737+79 LT	10	10
737+96 - 738+02 LT	10	10
738+24 - 738+30 LT	12	12
738+48 - 738+54 LT	12	12
739+66 - 739+76 RT	10	10
739+88 - 739+98 LT	10	10
740+17 - 740+22 LT	10	10
740+67 - 740+71 LT	10	10
<b>TOTAL C (HOOK)</b>	<b>196</b>	<b>196</b>
MISCELLANEOUS	64	28
<b>A+C+MISC. TOTAL</b>	<b>260</b>	<b>244</b>

CURB SCHEDULE	
STATION	(FT) COM CONC C&G TY B-6.12
<b>A. HAWTHORNE</b>	
101+52 - 102+52 LT	100
103+97 - 105+38 LT	141
123+71 - 124+76 LT	115
<b>TOTAL A (HAWTHORNE)</b>	<b>356</b>

OUTLET (CLASS SI CONCRETE) SCHEDULE	
STATION	(CY) OUTLET
<b>A. HAWTHORNE</b>	
105+36 LT	1
124+84 LT	1
<b>TOTAL A (HAWTHORNE)</b>	<b>2</b>

FENCE REMOVAL SCHEDULE	
STATION	(FT) FENCE REMOVAL
<b>A. HAWTHORNE</b>	
102+39 - 103+30 LT	95
110+40 - 110+66 LT	30
<b>TOTAL A (HAWTHORNE)</b>	<b>125</b>

HEDGE REMOVAL SCHEDULE	
STATION	(UNIT) HEDGE REMOVAL
<b>A. OAKWOOD</b>	
102+37 - 103+37 LT	10.0
110+45 - 111+00 LT	5.5
111+05 - 111+12 LT	0.7
111+35 - 111+55 LT	2.0
123+40 - 123+65 LT	2.5
124+60 - 126+15 LT	5.5
<b>TOTAL A (HAWTHORNE)</b>	<b>26.2</b>
<b>C. HOOK</b>	
704+90 - 706+00 LT	11.0
707+80 - 712+50 LT	47.0
737+50 - 737+75 LT	1.0
738+55 - 738+90 LT	1.0
739+93 - 739+98 LT	1.0
<b>TOTAL C (HOOK)</b>	<b>61.0</b>
<b>TOTAL A + C</b>	<b>87.2</b>

\* 1 UNIT = 10 FEET

SEGMENTAL CONCRETE BLOCK WALL SCHEDULE	
STATION	(SF) AREA
<b>A. HAWTHORNE</b>	
134+80 - 135+92 LT	250
<b>A TOTAL</b>	<b>250</b>
<b>C. HOOK</b>	
736+39 - 736+78 LT	225
738+54 - 739+99 LT	415
<b>C TOTAL</b>	<b>640</b>
MISCELLANEOUS	10
<b>A+C+MISC. TOTAL</b>	<b>900</b>

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	FILE NAME =	DRAWN -- EC	REVISED --
	PLOT SCALE =	CHECKED -- RJD	REVISED --
	PLOT DATE =	DATE -- 10/02/09	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET NO. 5 OF 75 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	5
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	

STORM STRUCTURE SCHEDULE		
STATION	(EA)	(EA)
	INLET TY B 3' TY 8 GRATE	INLET TY A 2' TY 8 GRATE
<b>A. HAWTHORNE</b>		
102+73 , 21' LT	1	
110+36 , 32' LT		1
133+97 , 12' LT	1	
<b>TOTAL A (HAWTHORNE)</b>	<b>2</b>	<b>1</b>

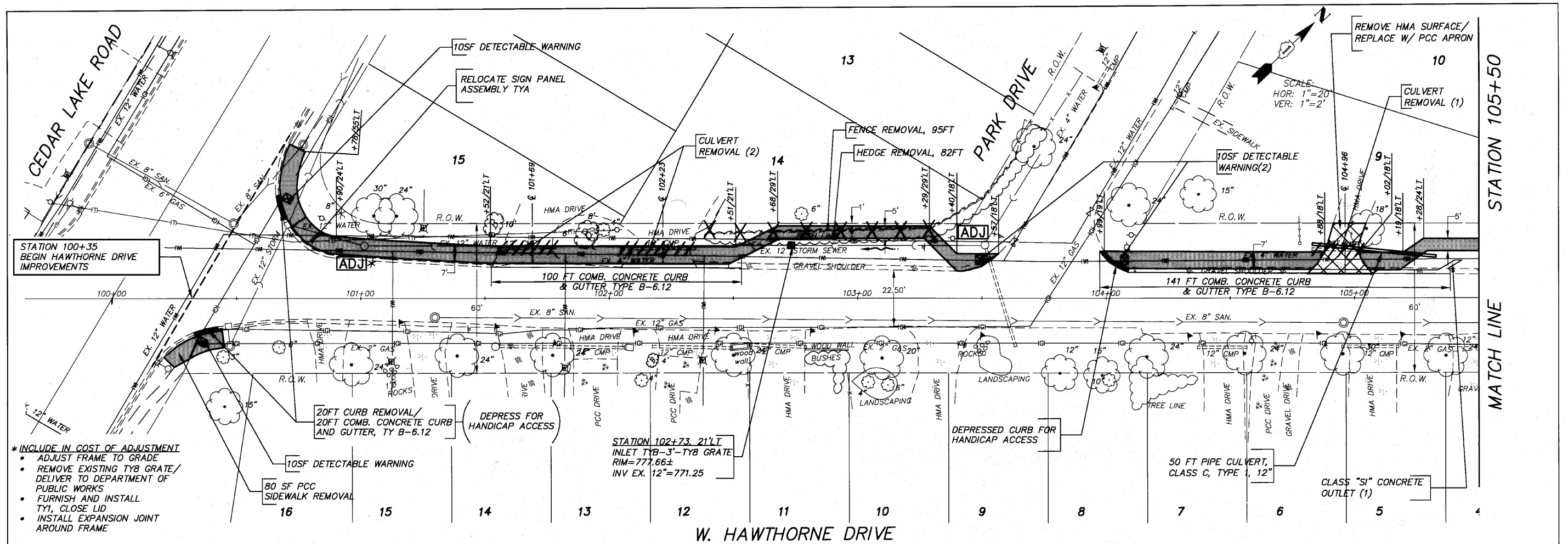
REMOVE EXISTING CULVERTS SCHEDULE	
STATION	(EA) REMOVE EXISTING CULVERTS
<b>A. HAWTHORNE</b>	
101+55 - 101+78 LT	1
102+05 - 102+35 LT	1
104+83 - 105+03 LT	1
105+98 - 106+24 LT	1
106+92 - 106+95 LT	1
111+13 - 111+33 LT	1
111+98 - 112+15 LT	1
131+88 - 132+13 LT	1
133+67 - 133+78 LT	1
136+88 - 137+16 LT	1
<b>TOTAL A (HAWTHORNE)</b>	<b>10</b>
MISCELLANEOUS	10
<b>A+MISC. TOTAL</b>	<b>20</b>

EARTHWORK EXCAVATION SCHEDULE			
LOCATION	STATION	(CY) EARTH EXCAVATION	(CY) EMBANKMENT (FILL)
HAWTHORNE DRIVE	100+35 - 105+50	108	35
HAWTHORNE DRIVE	105+50 - 111+00	73	10
HAWTHORNE DRIVE	111+00 - 116+50	48	2
HAWTHORNE DRIVE	116+50 - 122+00	22	0
HAWTHORNE DRIVE	112+00 - 127+50	82	23
HAWTHORNE DRIVE	127+50 - 133+00	98	16
HAWTHORNE DRIVE	133+00 - 137+98	93	4
ORCHARD LANE	600+00 - 605+50	0	0
ORCHARD LANE	605+50 - 611+00	0	0
ORCHARD LANE	611+00 - 616+50	0	0
HOOK DRIVE	700+00 - 705+50	101	23
HOOK DRIVE	705+50 - 711+00	108	15
HOOK DRIVE	711+00 - 716+50	110	25
HOOK DRIVE	716+50 - 722+00	101	8
HOOK DRIVE	722+00 - 727+50	96	4
HOOK DRIVE	727+50 - 733+00	115	5
HOOK DRIVE	733+00 - 738+50	155	154
HOOK DRIVE	738+50 - 740+20	39	135
<b>SUB-TOTAL</b>		<b>1349</b>	<b>459</b>
<b>SHRINKAGE FACTOR (25%)</b>		<b>337</b>	
<b>TOTAL</b>		<b>1012</b>	<b>459</b>

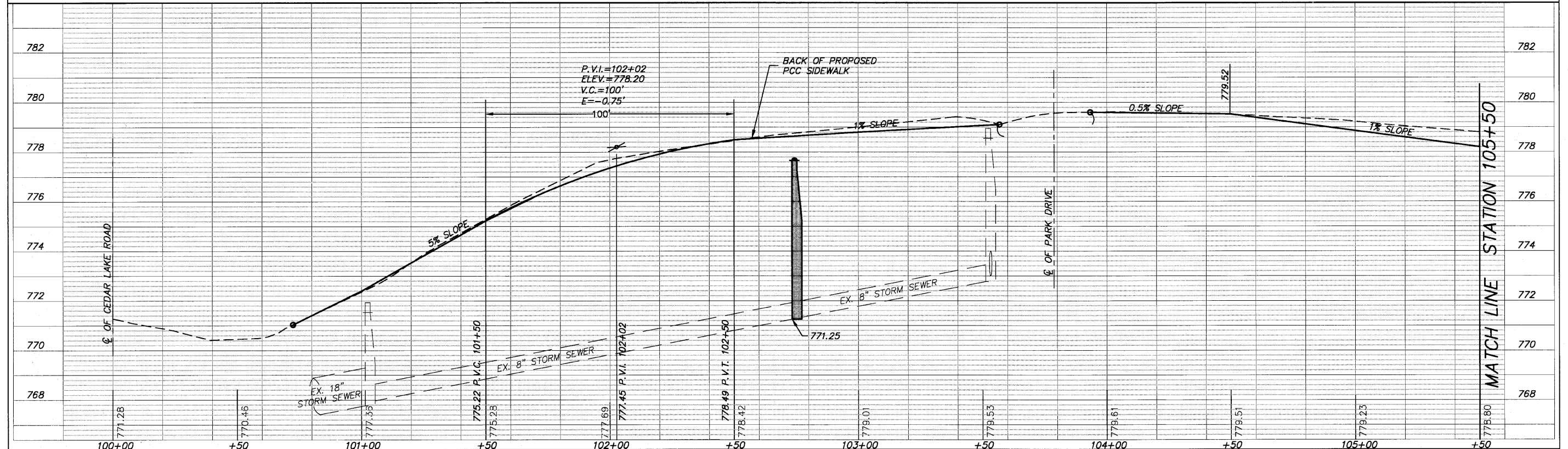
PCC SIDEWALK REMOVAL SCHEDULE	
STATION	(SF) 5"
<b>A. HAWTHORNE</b>	
100+21 - 100+45 RT	80
106+92 - 106+94 LT	13
113+20 - 113+36 LT	48
114+86 - 115+08 Lt	115
115+54 - 115+64 Lt	67
116+20 - 116+42 Lt	105
116+58 - 116+63 Lt	23
117+13 - 118+82 Lt	340
119+00 - 119+06 Lt	30
119+12 - 119+22 Lt	43
119+50 - 119+55 Lt	24
122+59 - 122+64 Lt	25
133+13 - 133+15 Lt	18
<b>A. TOTAL (HAWTHORNE)</b>	<b>931</b>
<b>B. ORCHARD</b>	
600+31 - 600+40 LT	48
600+46 - 600+59 LT	60
600+48 - 600+58 RT	38
603+21 - 603+31 RT	47
603+70 - 603+80 RT	48
608+04 - 608+14 RT	50
608+48 - 608+58 RT	50
611+39 - 611+48 RT	33
612+06 - 612+13 RT	42
<b>B. TOTAL (ORCHARD)</b>	<b>416</b>
<b>C. HOOK</b>	
700+23 - 700+38 LT	91
700+25 - 700+32 RT	46
732+16 - 732+24 LT	26
738+00 - 738+29 LT	179
<b>C. TOTAL (HOOK)</b>	<b>342</b>
MISCELLANEOUS	11
<b>A+B+C+MISC. TOTAL</b>	<b>1700</b>

PIPE CULVERTS, (CLASS C, TYPE 1, 12") SCHEDULE		
STATION	(FT) LENGTH	(EA) S.E.S
<b>A. HAWTHORNE</b>		
105+09 , 19' LT	50	
106+10 , 15' LT	25	
106+95 , 10' LT	10	
107+31 , 27' LT	10	1
107+73 , 27' LT	12	1
110+00 , 26' LT	10	2
111+15 , 20' LT	36	2
111+93 , 20' LT	4	1
112+15 , 18' LT	34	1
123+67 , 18' LT	10	2
124+81 , 17' LT	10	2
126+74 , 28' LT	15	2
127+17 , 26' LT	10	2
130+25 , 18' LT	17	2
130+59 , 25' LT	32	2
130+90 , 18' LT	15	2
131+95 , 15' LT	42	2
133+75 , 17' LT	45	1
134+10 , 17' LT	18	1
134+59 , 19' LT	10	1
136+02 , 13' LT	25	2
137+35 , 12' LT	45	2
137+90 , 25' LT	14	2
<b>TOTAL A (HAWTHORNE)</b>	<b>499</b>	<b>33</b>
MISCELLANEOUS	4	2
<b>A+MISC. TOTAL</b>	<b>503</b>	<b>35</b>

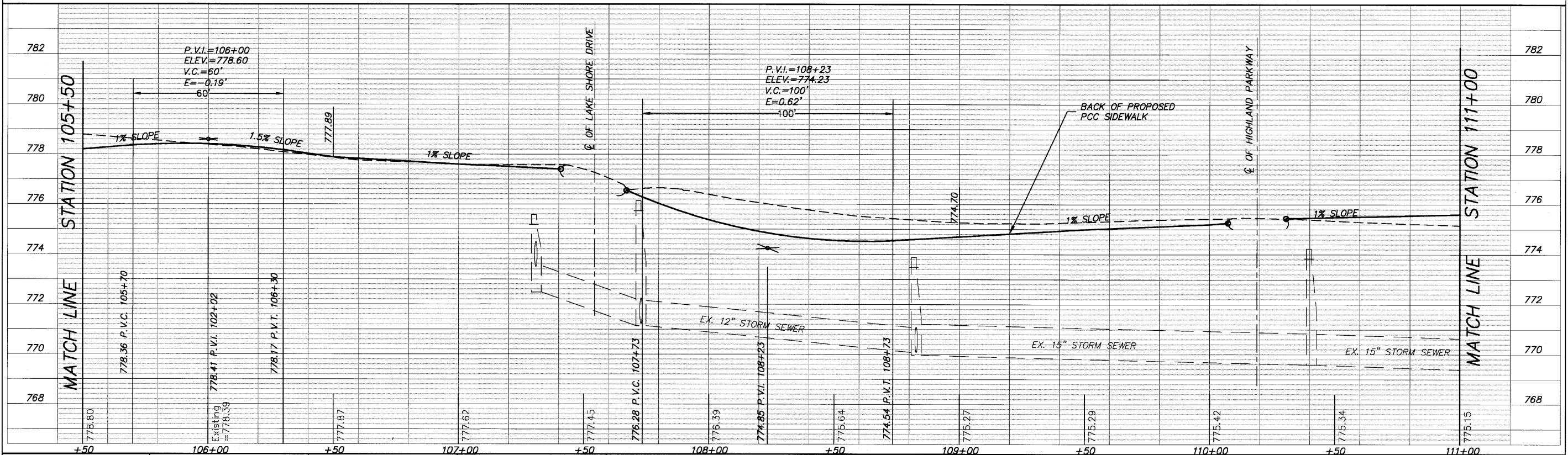
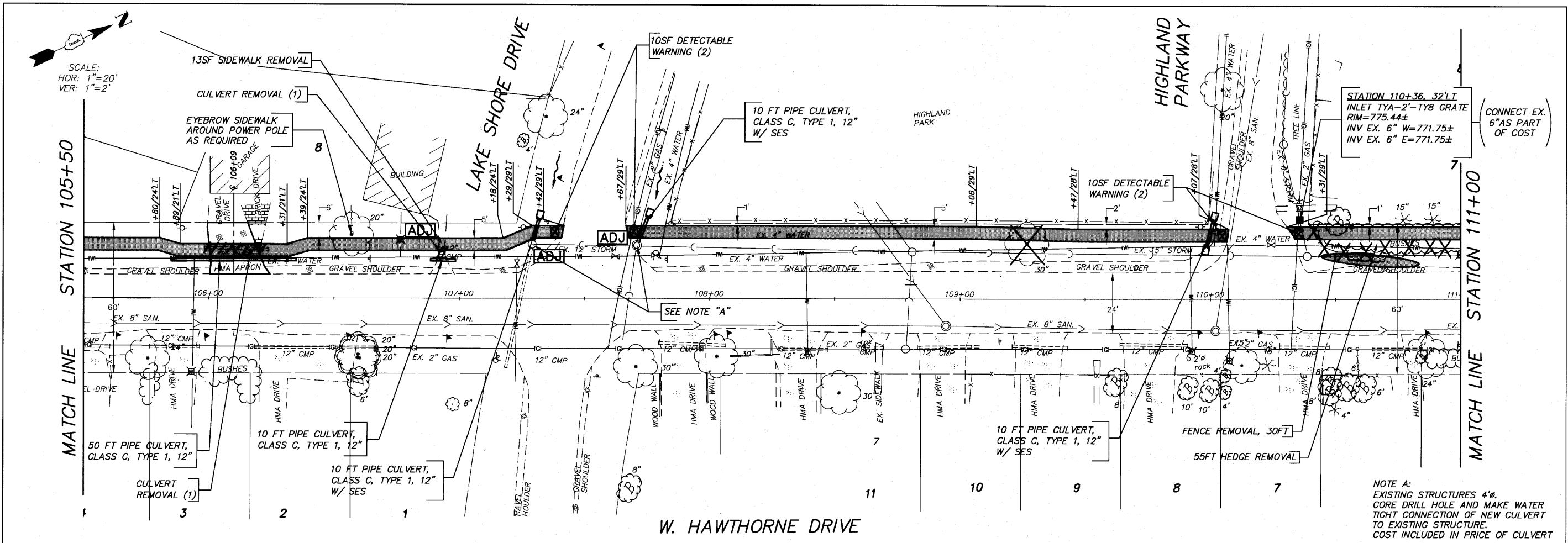
SIGN PANEL ASSEMBLY SCHEDULE		
STATION	(EA) RELOCATE	(SQ FT) SIGN PANEL TYPE 1
<b>A. HAWTHORNE</b>		
100+80 LT	1	
123+41 LT	1	
126+70 LT	1	
134+16 LT	1	
<b>TOTAL A (HAWTHORNE)</b>	<b>4</b>	
<b>C. HOOK</b>		
722+70 LT	1	
726+12 LT	1	
728+97 LT	1	
731+77 LT	1	
735+60 RT		5
735+67 LT		5
735+95 RT		5
736+02 LT		5
738+02 LT	1	
<b>TOTAL C (HOOK)</b>	<b>5</b>	<b>20</b>
MISCELLANEOUS	9	
<b>A+C+MISC. TOTAL</b>	<b>14</b>	<b>20</b>



- \* INCLUDE IN COST OF ADJUSTMENT**
- ADJUST FRAME TO GRADE
  - REMOVE EXISTING TYB GRATE/ DELIVER TO DEPARTMENT OF PUBLIC WORKS
  - FURNISH AND INSTALL TY1, CLOSE LID
  - INSTALL EXPANSION JOINT AROUND FRAME

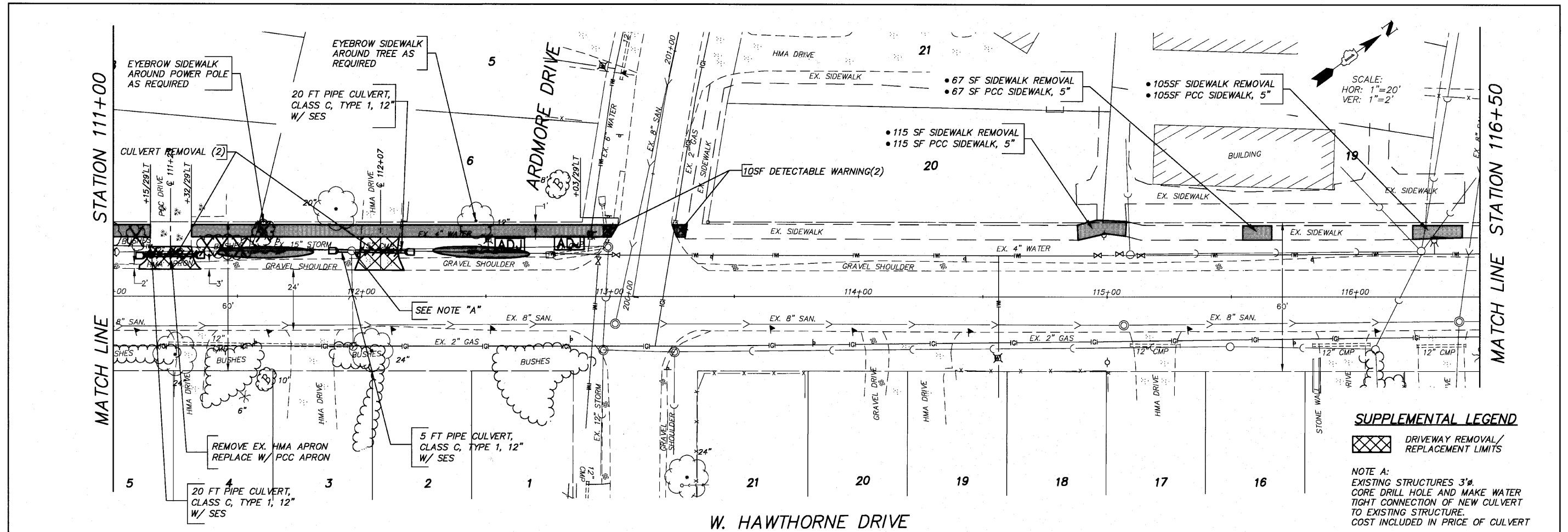


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	PLOT DATE =	DATE = 01/19/10	REVISED =									



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	PLOT DATE =	DATE - 01/19/10	REVISED -			CONTRACT NO. 63467 ILLINOIS FED. AID PROJECT					

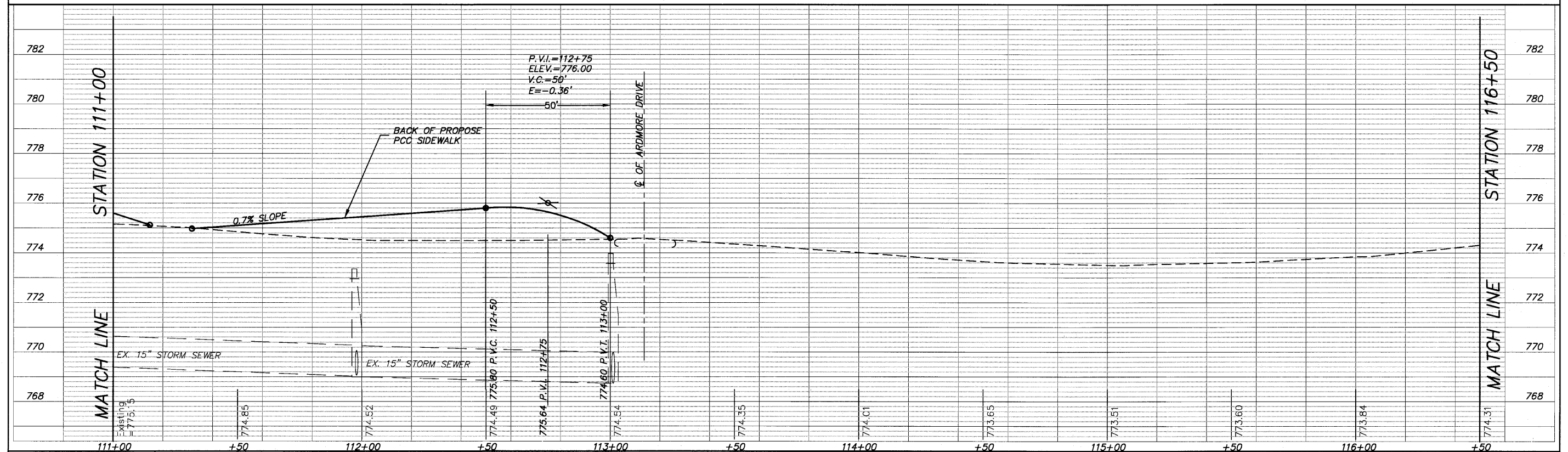




**SUPPLEMENTAL LEGEND**

DRIVEWAY REMOVAL/REPLACEMENT LIMITS

NOTE A:  
EXISTING STRUCTURES 3"  
CORE DRILL HOLE AND MAKE WATER  
TIGHT CONNECTION OF NEW CULVERT  
TO EXISTING STRUCTURE.  
COST INCLUDED IN PRICE OF CULVERT



FILE NAME = 102589HAWTHORNE04.DWG

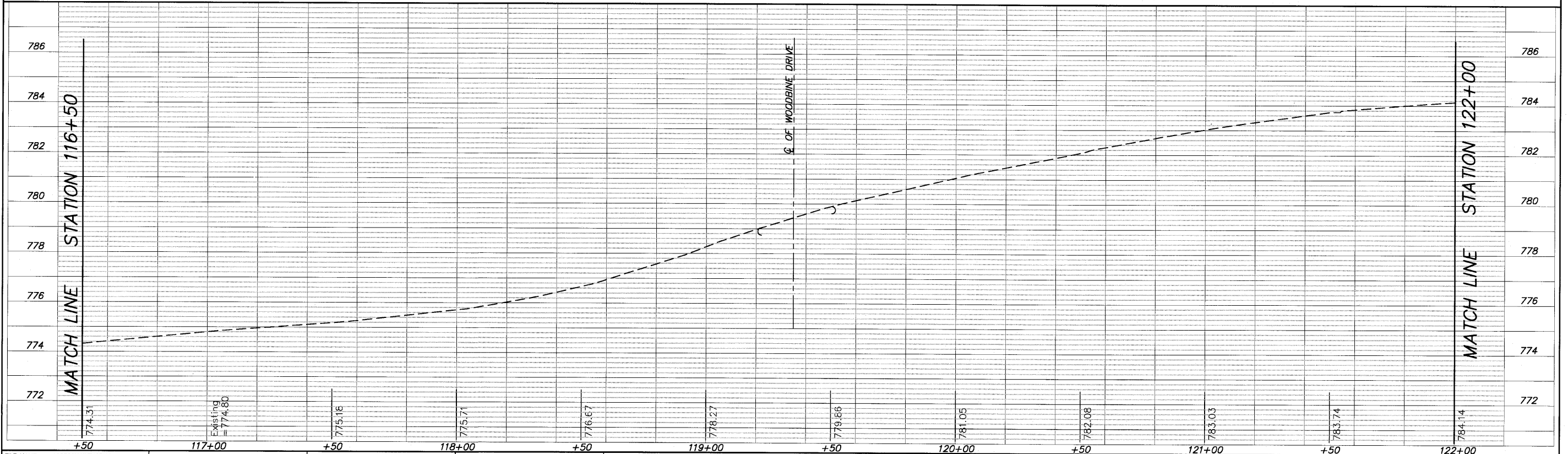
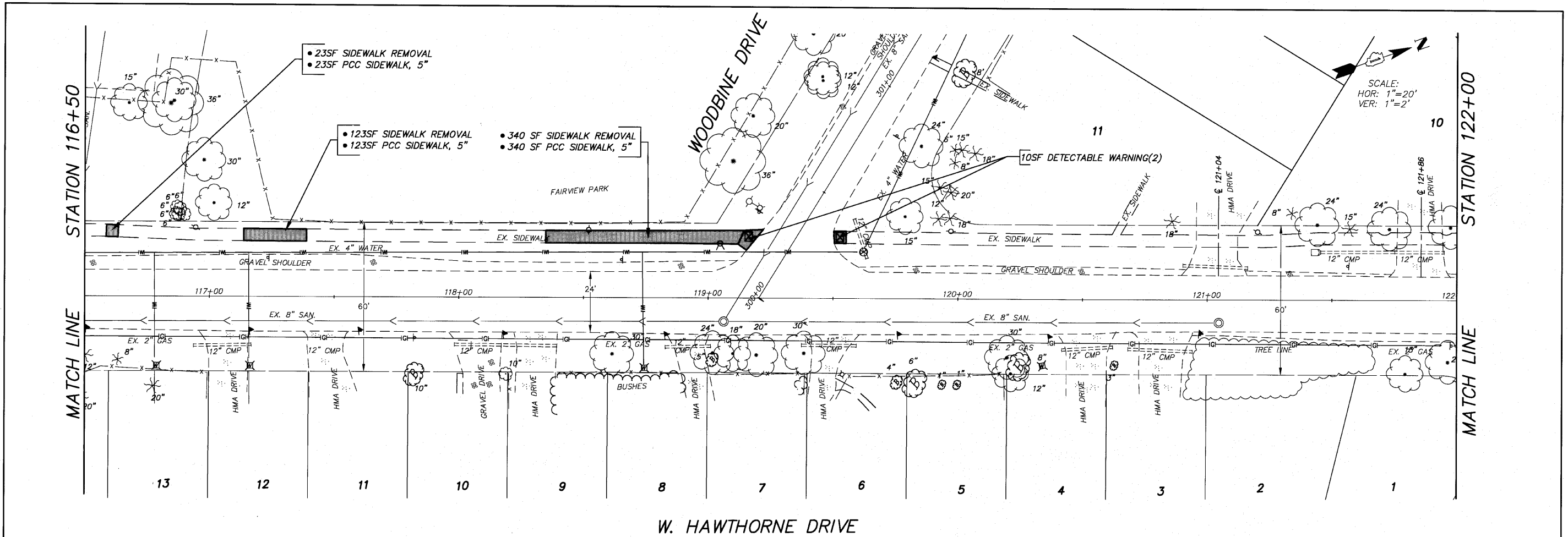
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

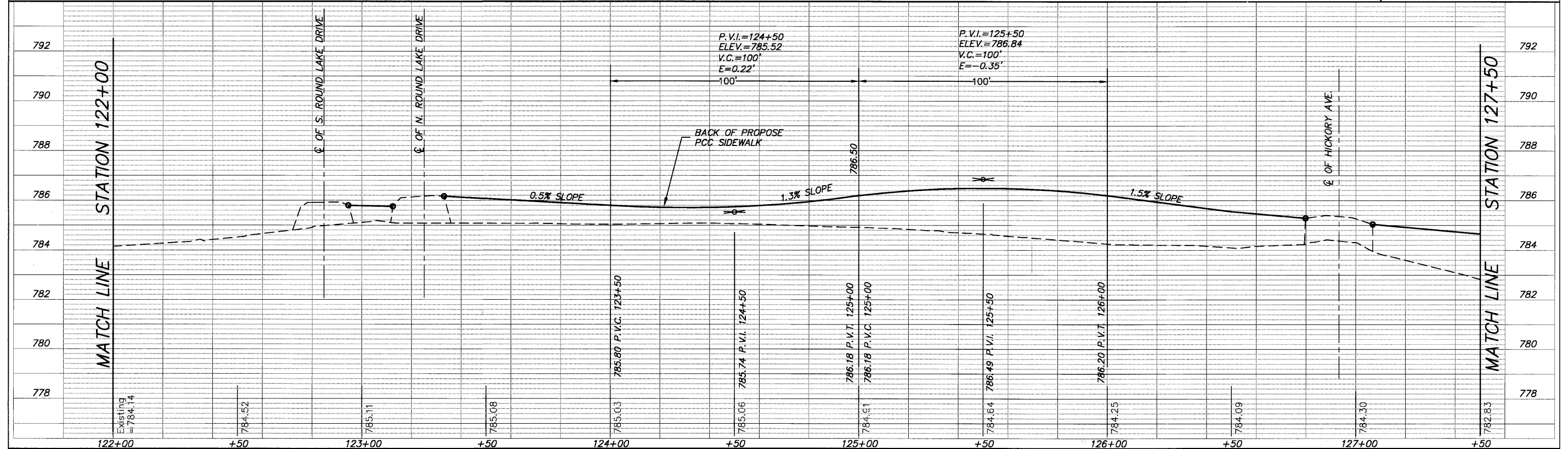
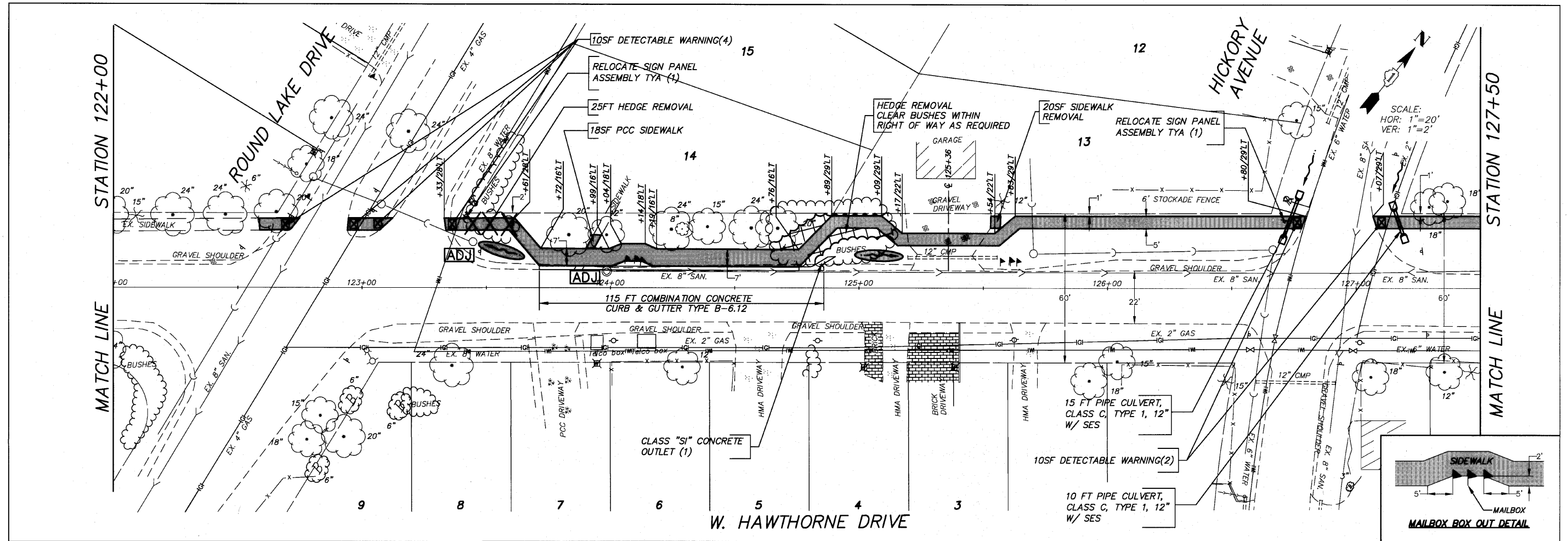
**PLAN AND PROFILE**

SCALE: 1"=20' SHEET NO. 9 OF 75 SHEETS STA. 111+00 TO STA. 116+50

F.A.U. RTE. 184	SECTION 10-00073-00-SW	COUNTY LAKE	TOTAL SHEETS 75	SHEET NO. 9
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



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	PLOT DATE =	DATE - 01/19/10	REVISED -									



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 PLOT DATE =

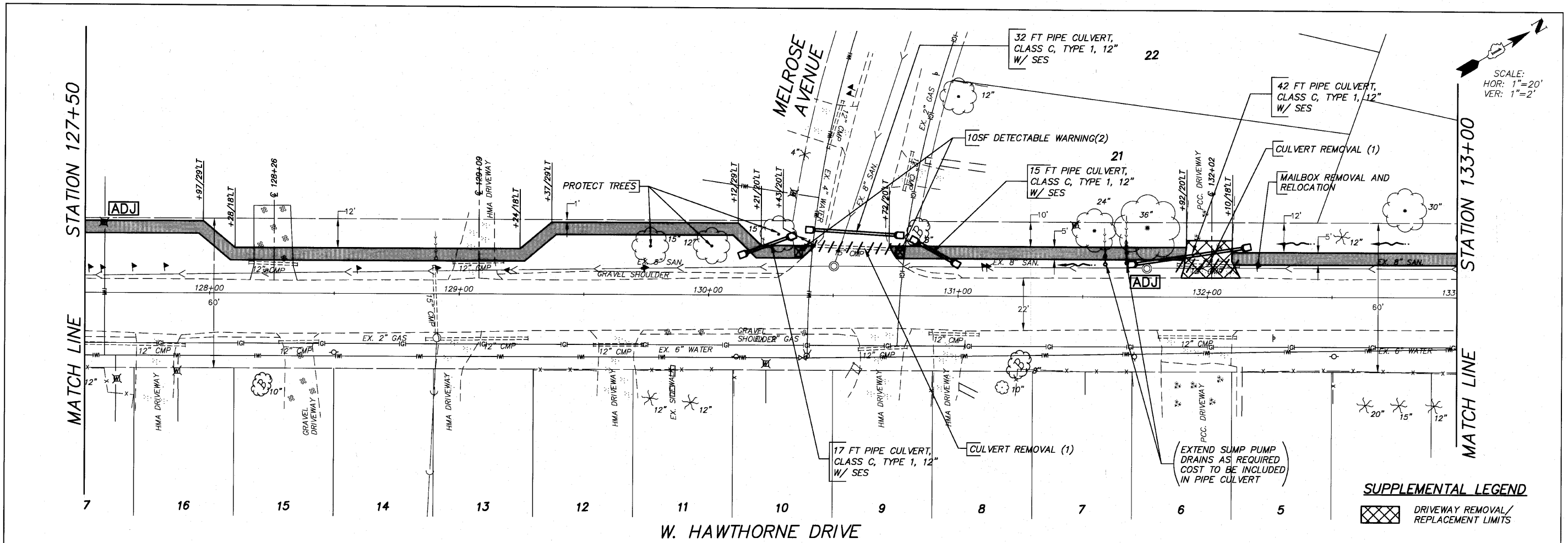
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DRAWN - EC	REVISED -
CHECKED - RJD	REVISED -
DATE - 01/19/10	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

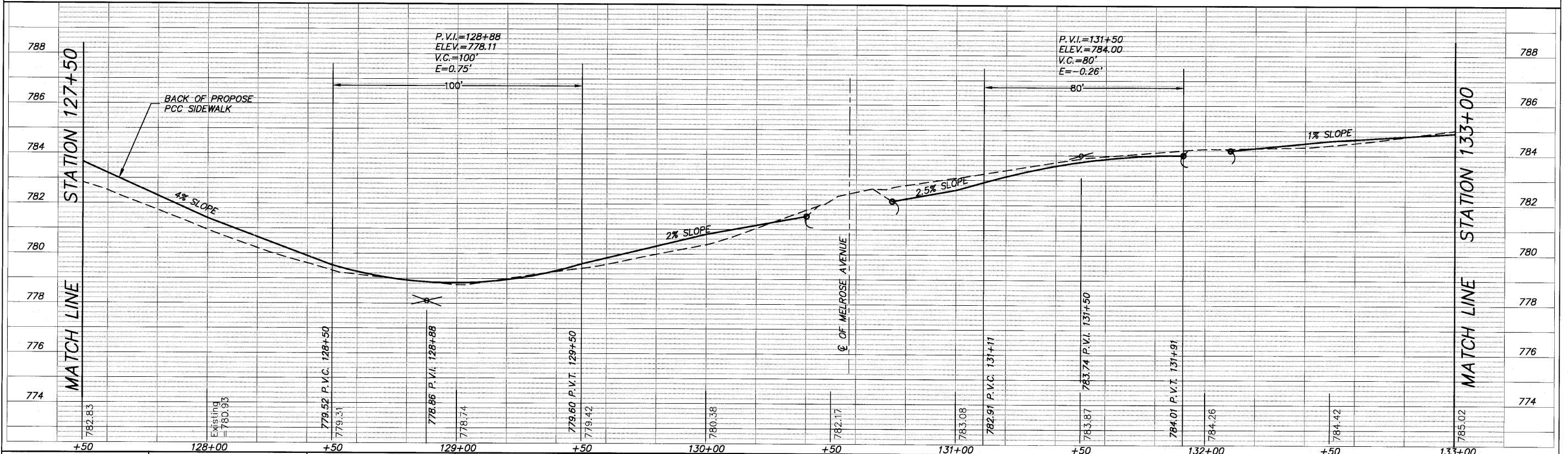
**PLAN AND PROFILE**

SCALE: 1"=20'    SHEET NO. 11 OF 75 SHEETS    STA. 122+00 TO STA. 127+50

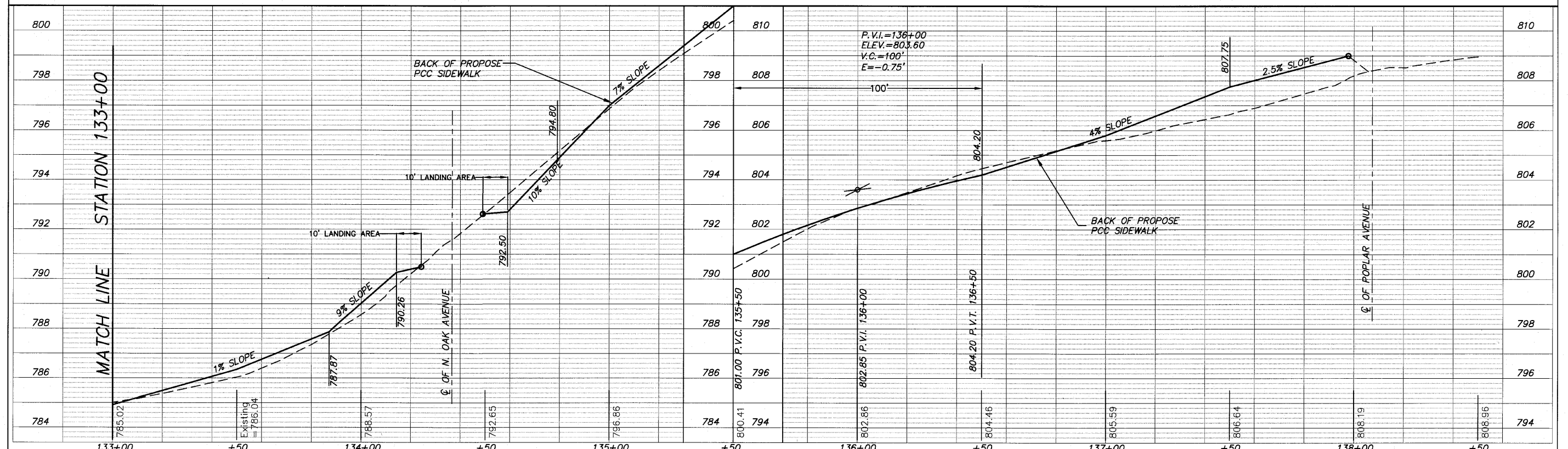
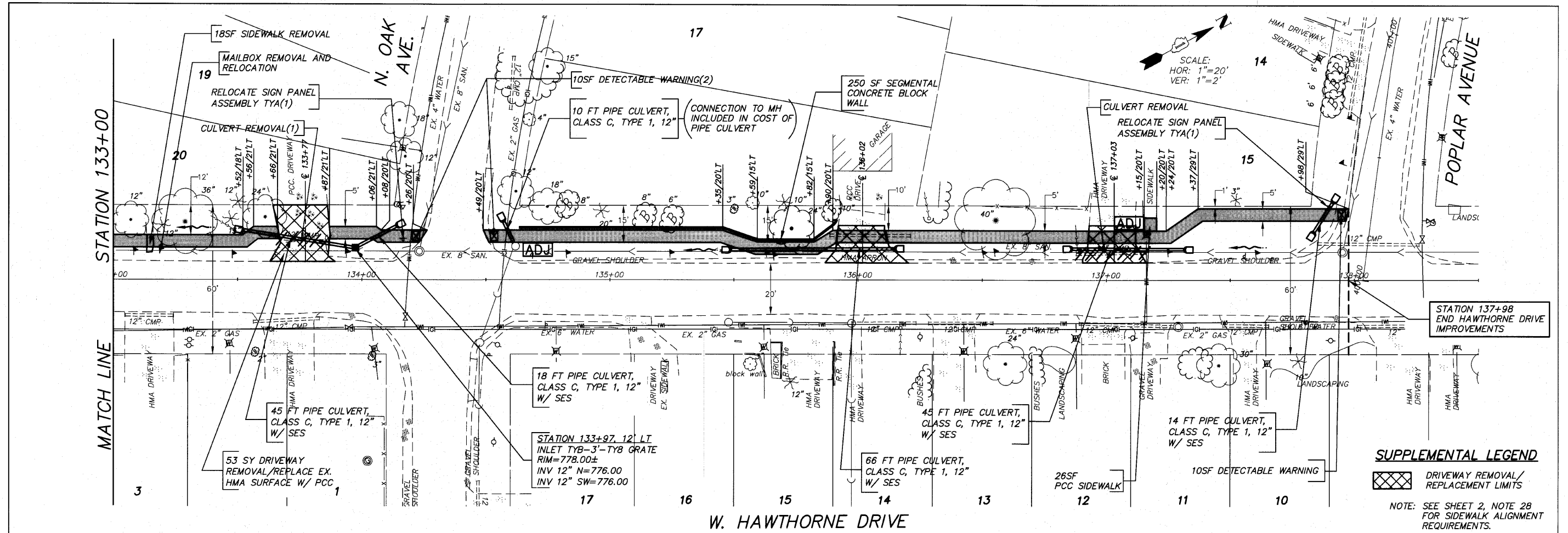
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CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



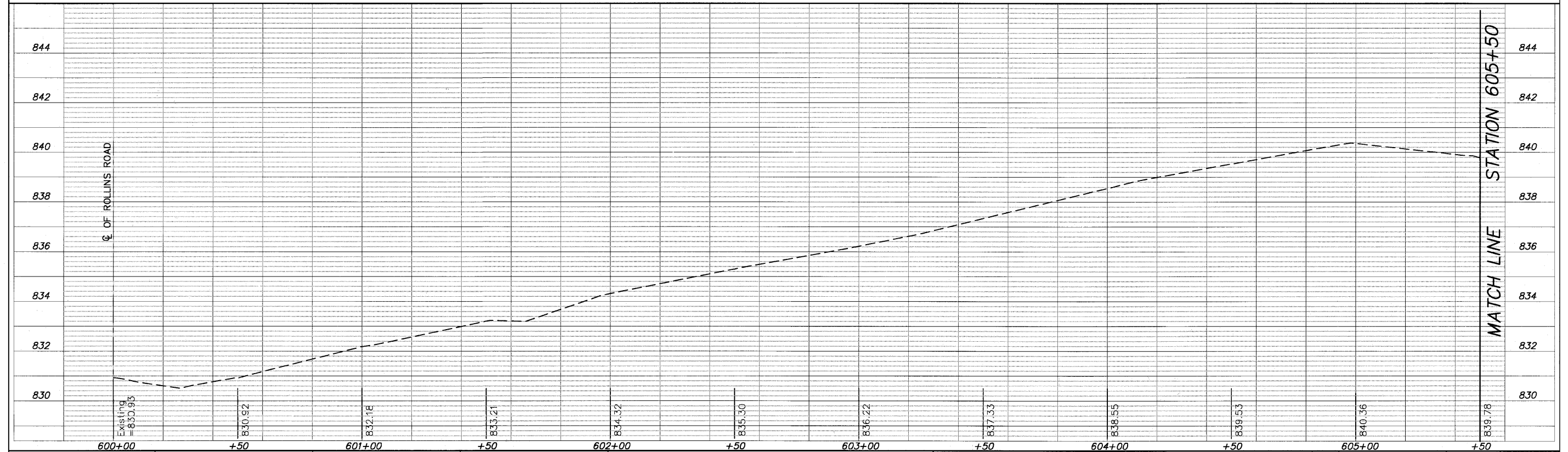
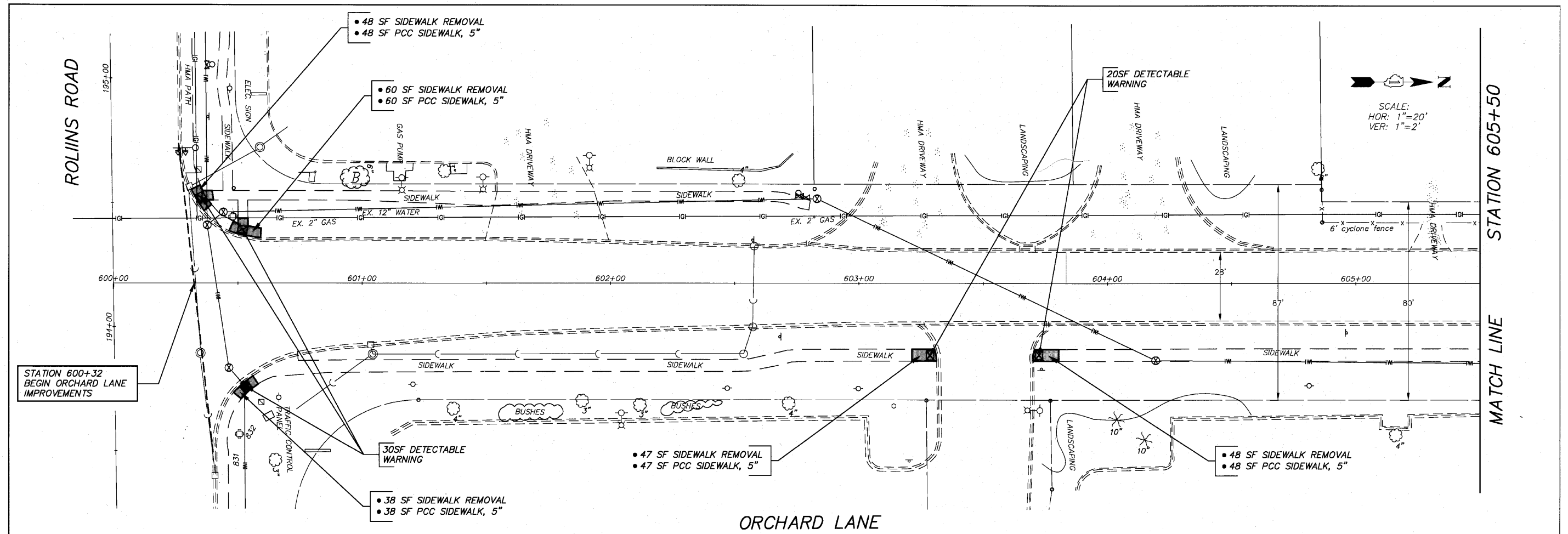
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HOR: 1"=20'  
VER: 1"=2'



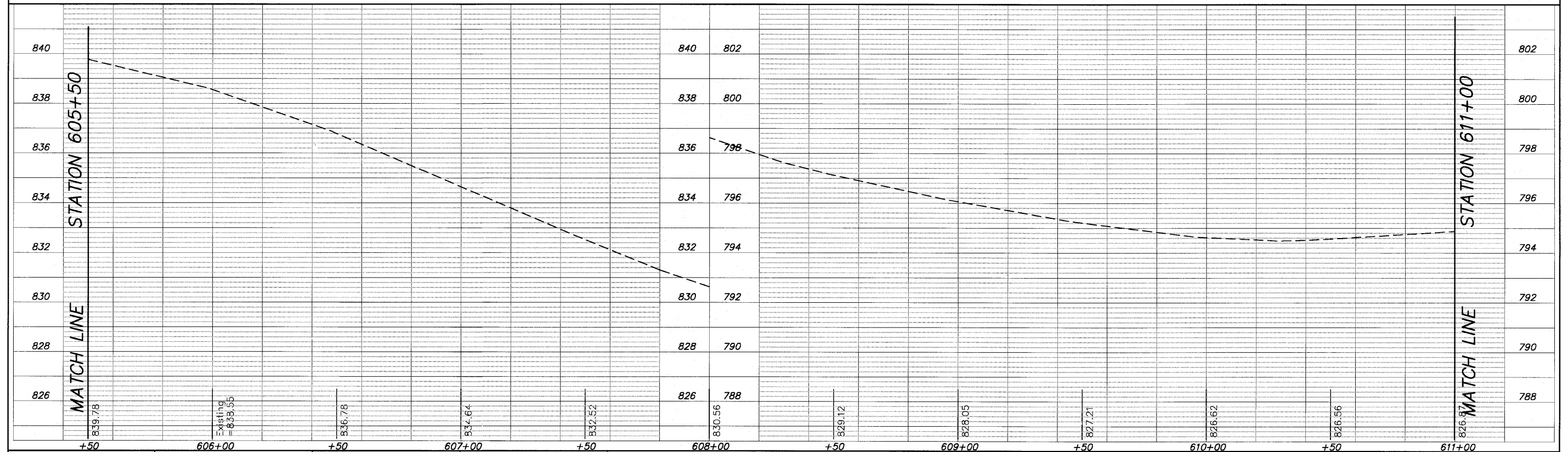
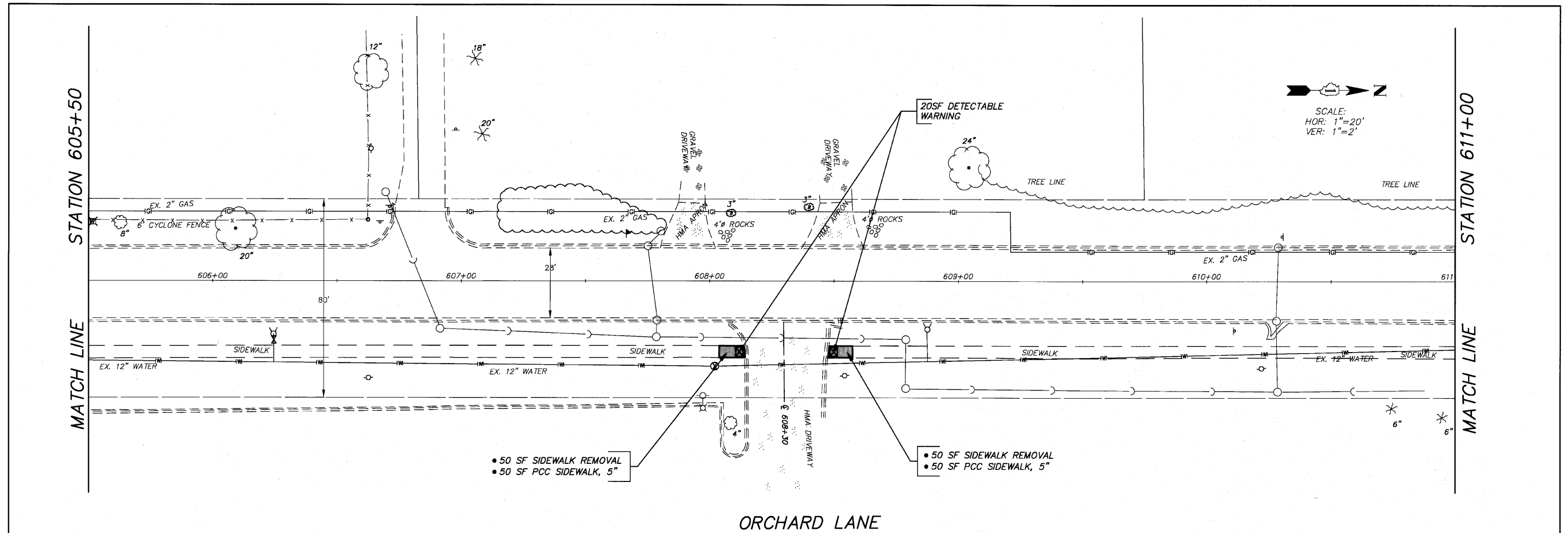
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	PLOT DATE =	DATE - 01/19/10	REVISED -									

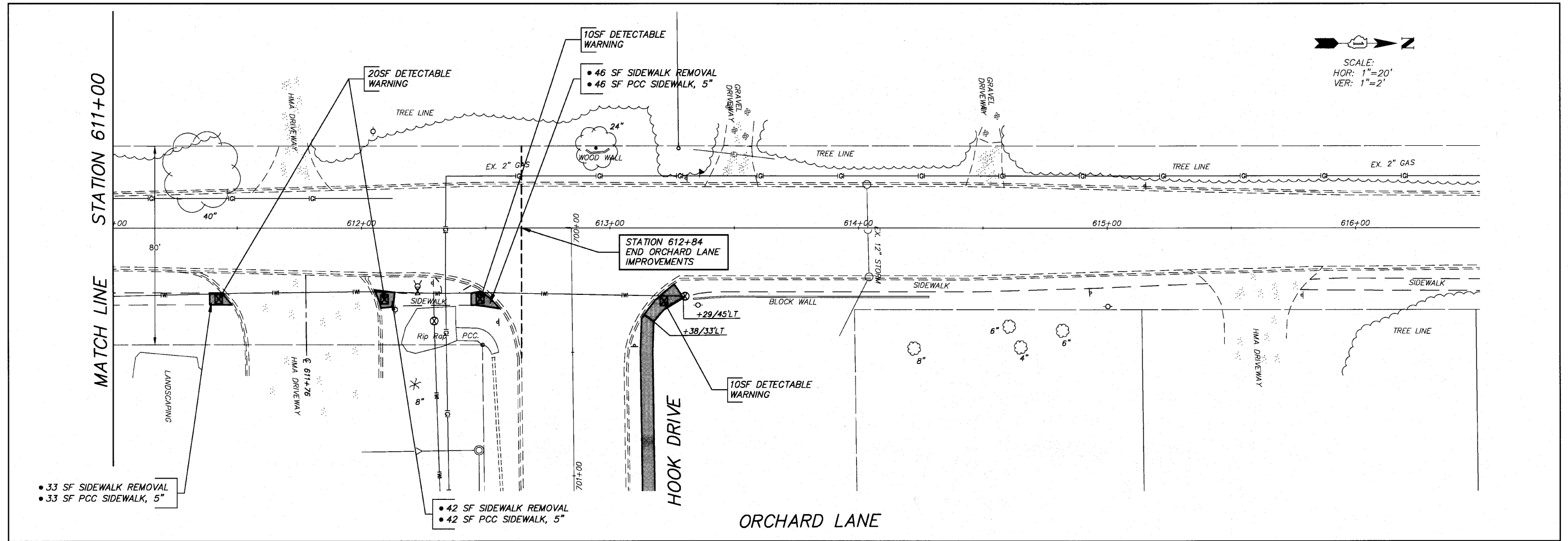


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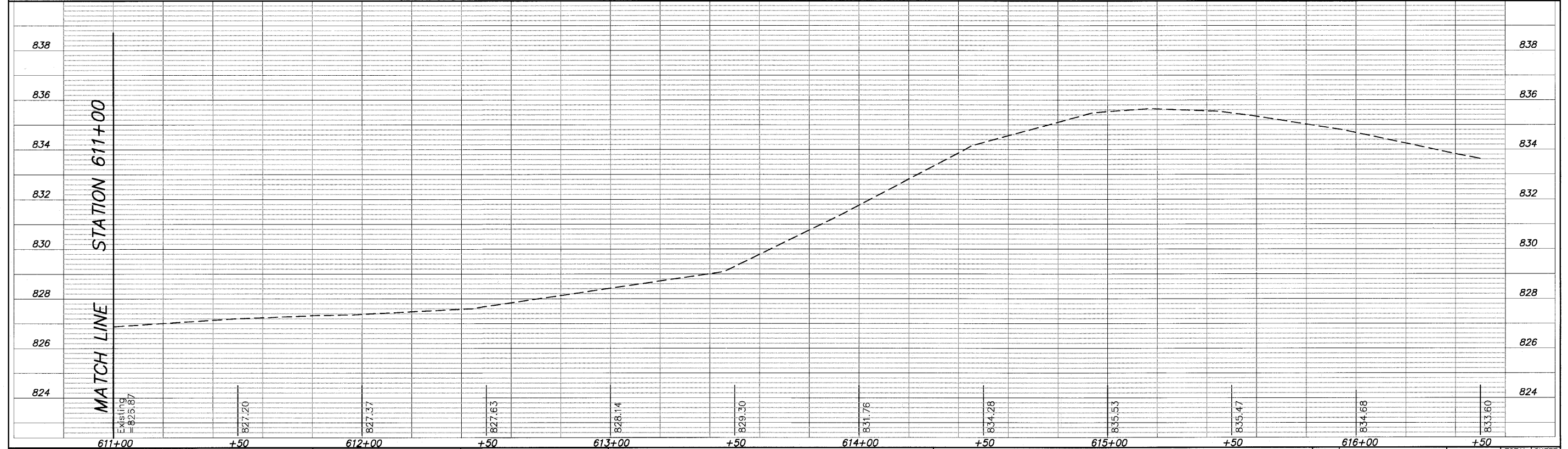


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	PLOT DATE =	DATE - 10/02/09	REVISED -					ILLINOIS FED. AID PROJECT				



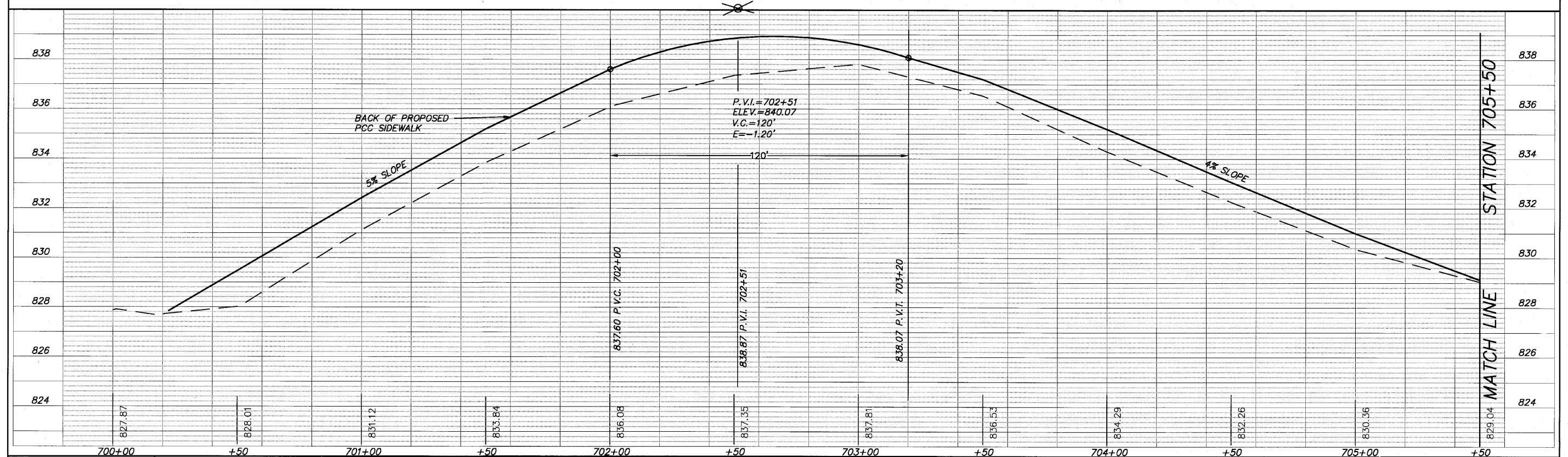
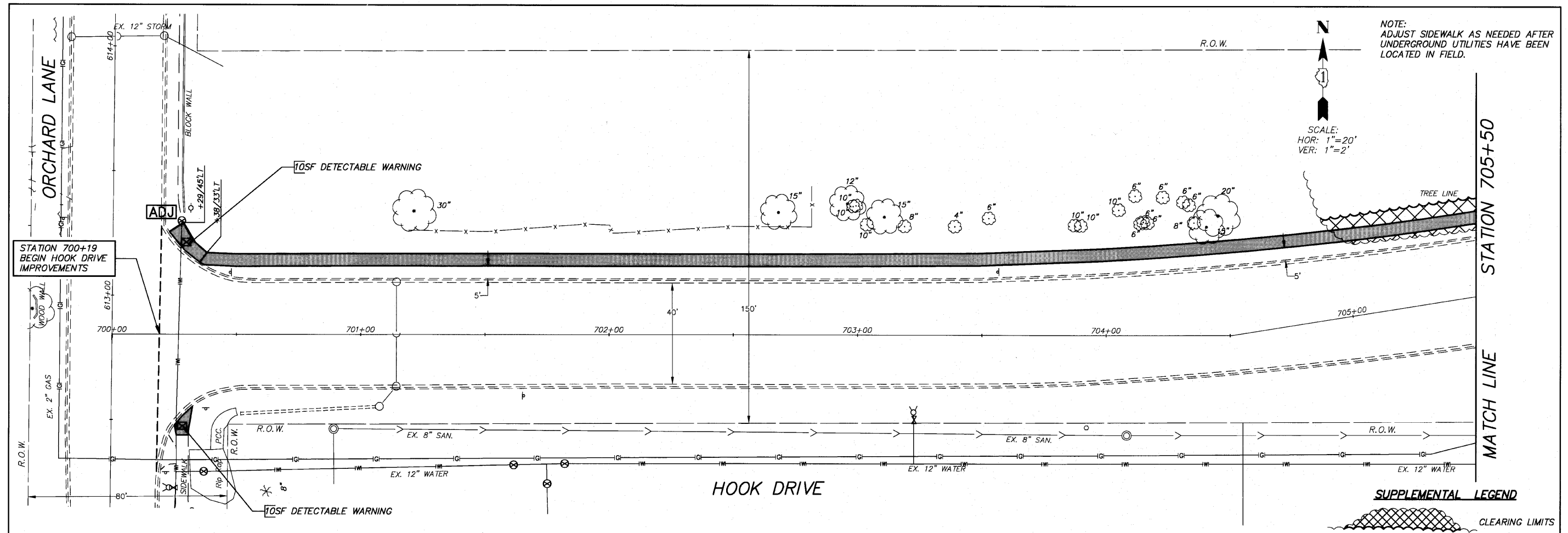


SCALE:  
 HOR: 1"=20'  
 VER: 1"=2'



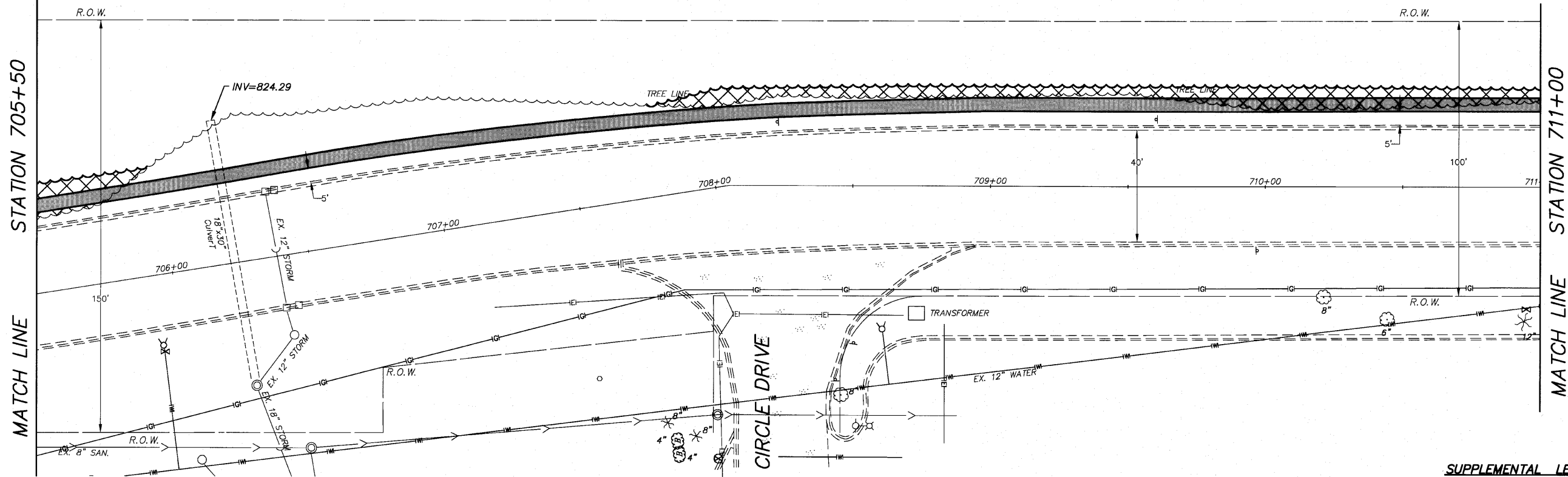
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	PLOT DATE =	DATE - 10/02/09	REVISED -								





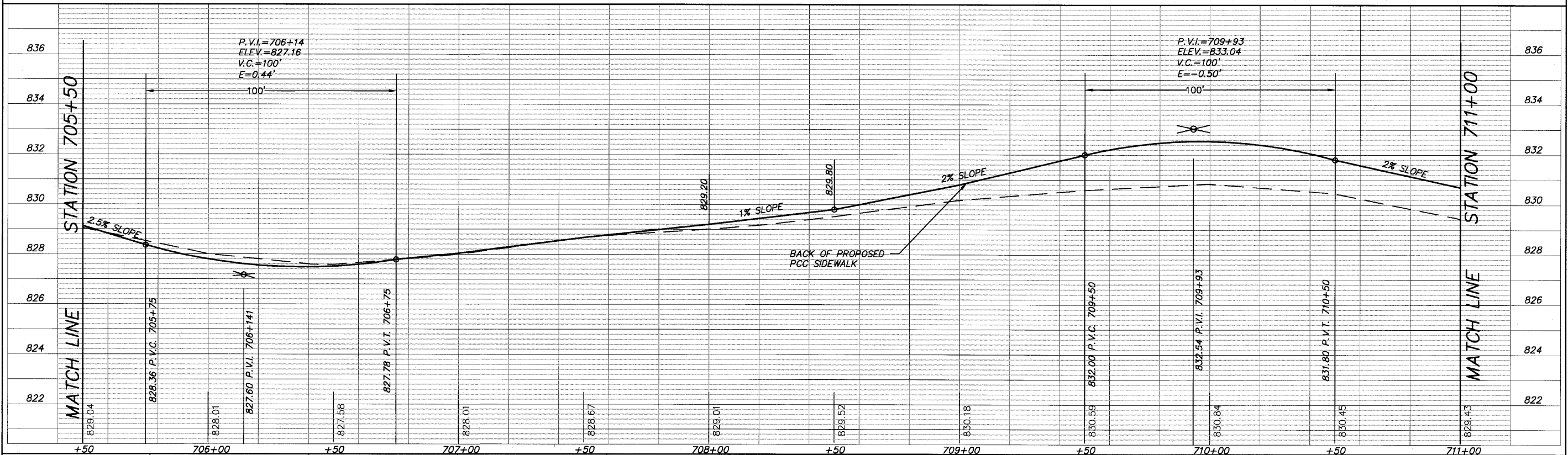
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	PLOT DATE =	DATE = 01/19/10	REVISED =		ILLINOIS FED. AID PROJECT							

NOTE:  
ADJUST SIDEWALK AS NEEDED AFTER  
UNDERGROUND UTILITIES HAVE BEEN  
LOCATED IN FIELD.



HOOK DRIVE

SUPPLEMENTAL LEGEND



FILE NAME = 102589HOOK04.DWG

USER NAME =	DESIGNED - RJD	REVISED -
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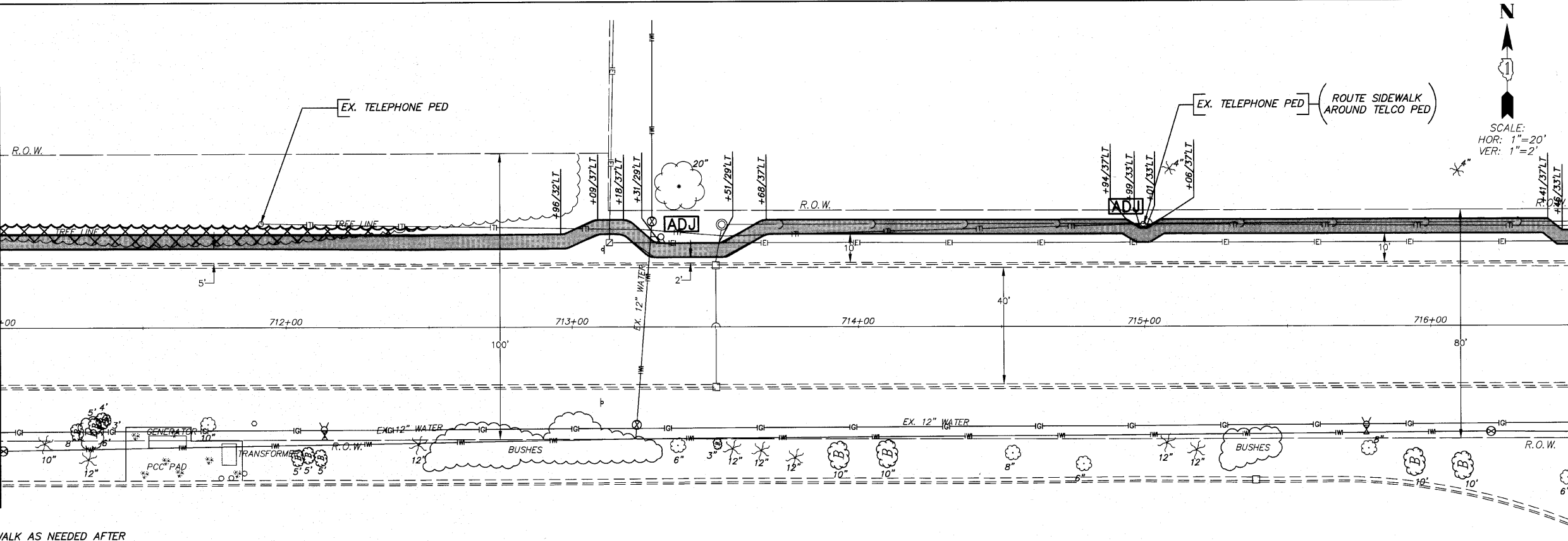
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1"=20' SHEET NO. 18 OF 75 SHEETS STA. 705+50 TO STA. 711+00

F.A. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
---	10-00073-00-SW	LAKE	75	18
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	

STATION 711+00  
MATCH LINE



STATION 716+50  
MATCH LINE

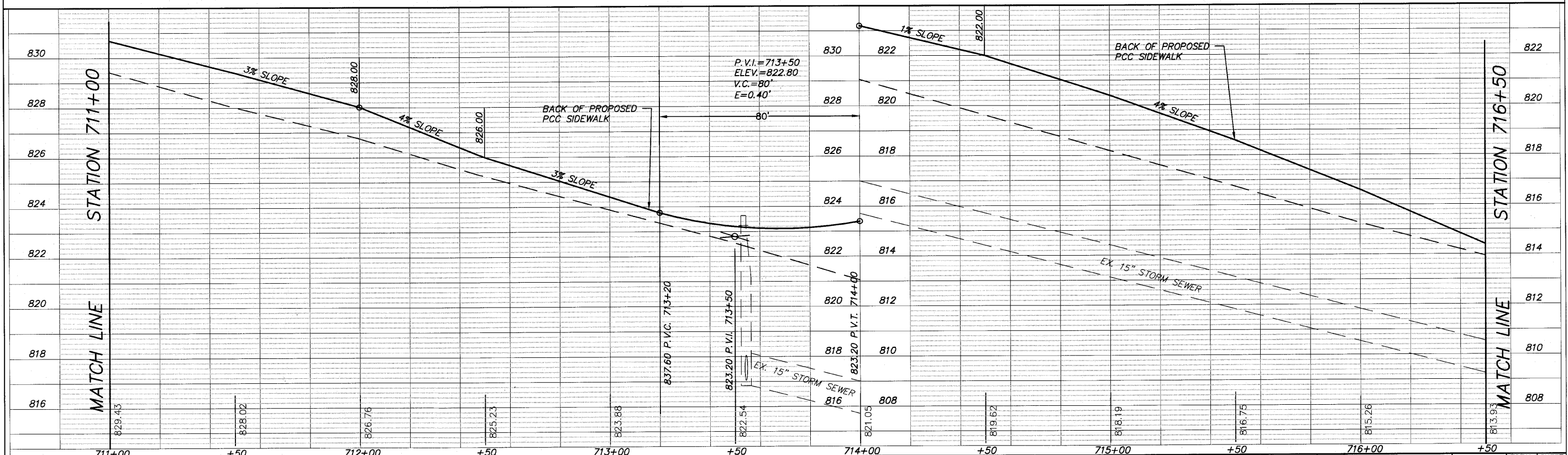
SCALE:  
HOR: 1"=20'  
VER: 1"=2'

- NOTE:
1. ADJUST SIDEWALK AS NEEDED AFTER UNDERGROUND UTILITIES HAVE BEEN LOCATED IN FIELD.
  2. ELECTRIC CONDUIT SHOWN IS BELIEVED TO BE 3" W/ 37 CONDUCTORS
  3. SEE SHEET 2, NOTE 28 FOR SIDEWALK ALIGNMENT REQUIREMENTS

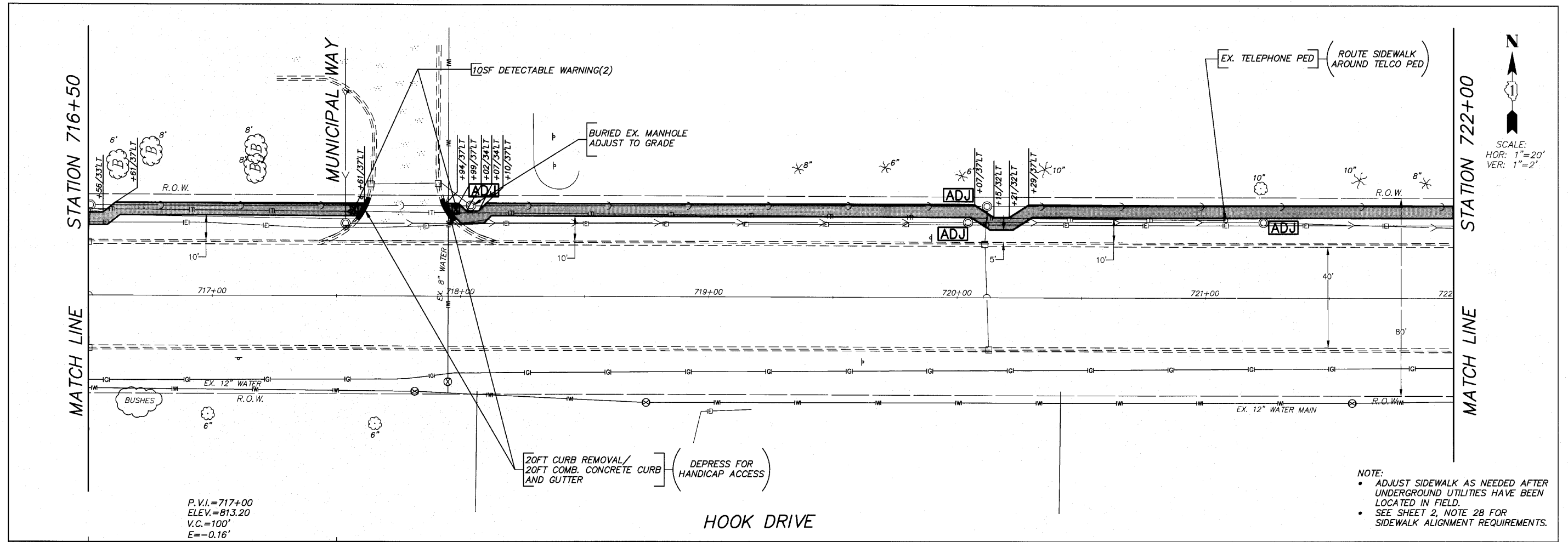
HOOK DRIVE

**SUPPLEMENTAL LEGEND**

CLEARING LIMITS

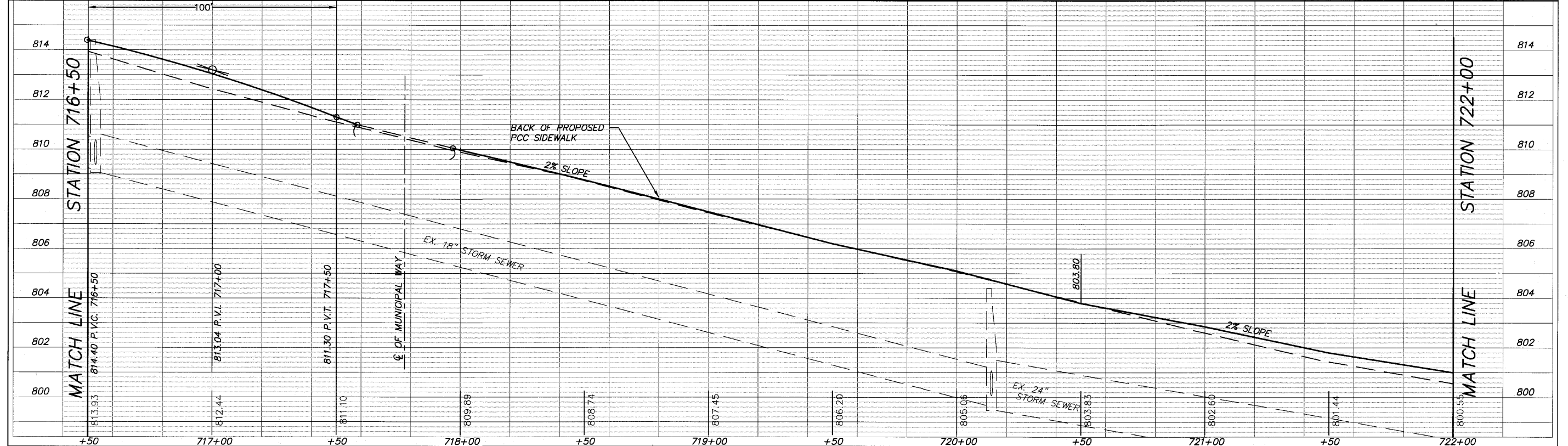


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	FILE NAME =	DRAWN = EC	REVISED =		SCALE: 1"=20'	SHEET NO. 19 OF 75 SHEETS	STA. 711+00 TO STA. 716+50	10-00073-00-SW	LAKE	75	19	
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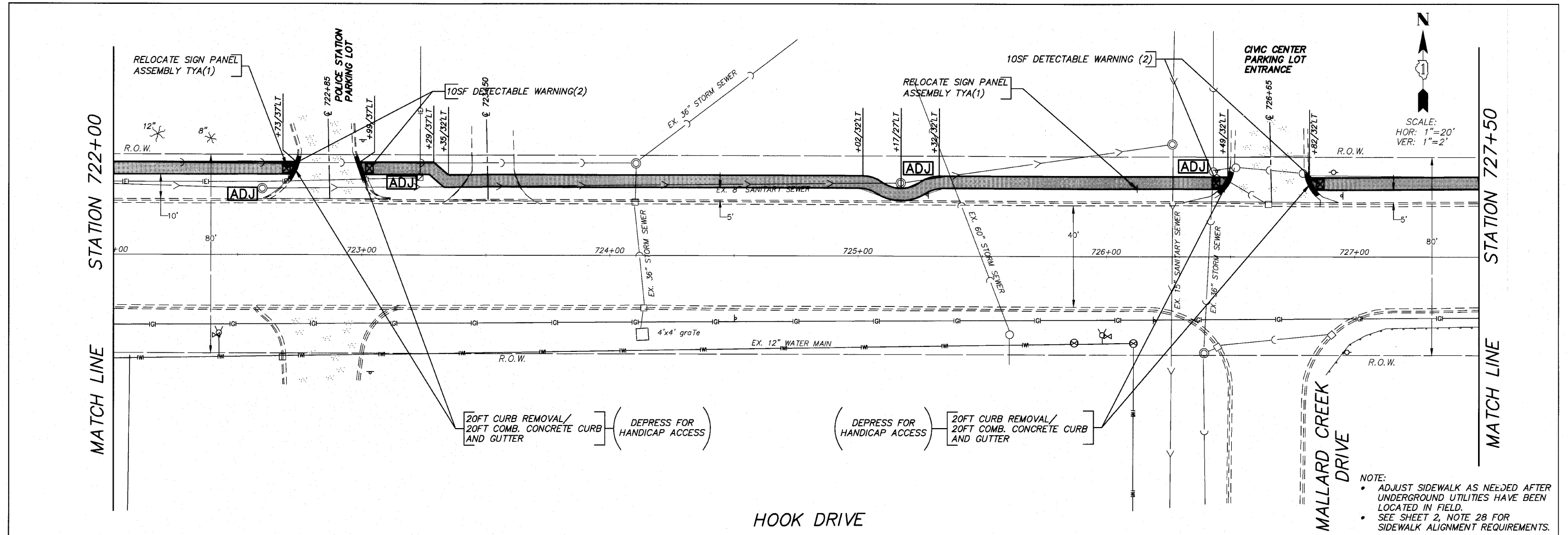


P.V.I. = 717+00  
 ELEV. = 813.20  
 V.C. = 100'  
 E = -0.16'

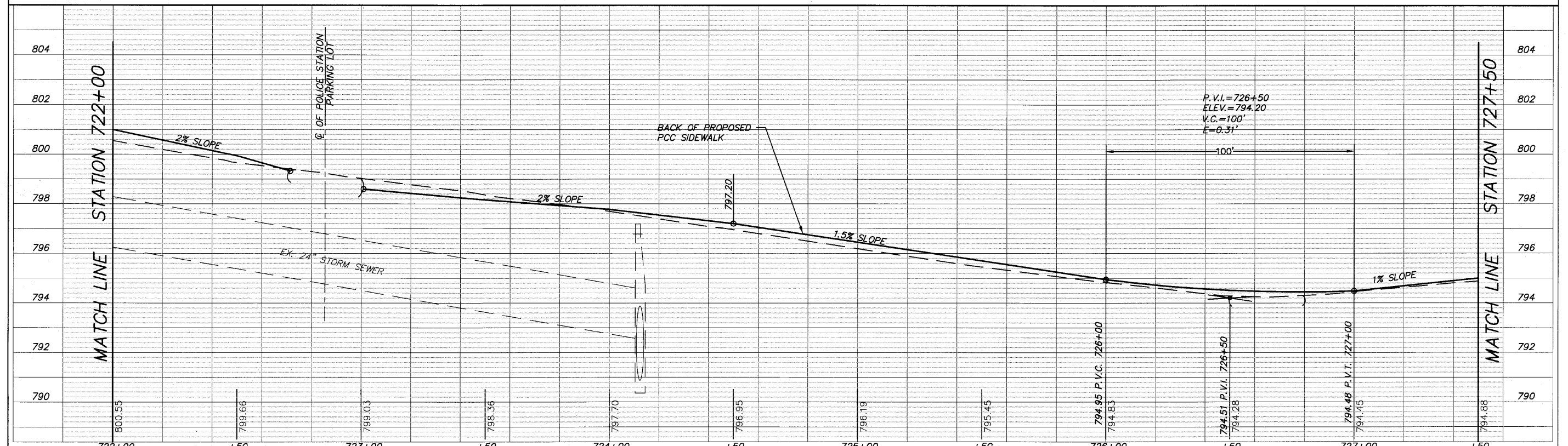
NOTE:  
 • ADJUST SIDEWALK AS NEEDED AFTER UNDERGROUND UTILITIES HAVE BEEN LOCATED IN FIELD.  
 • SEE SHEET 2, NOTE 28 FOR SIDEWALK ALIGNMENT REQUIREMENTS.



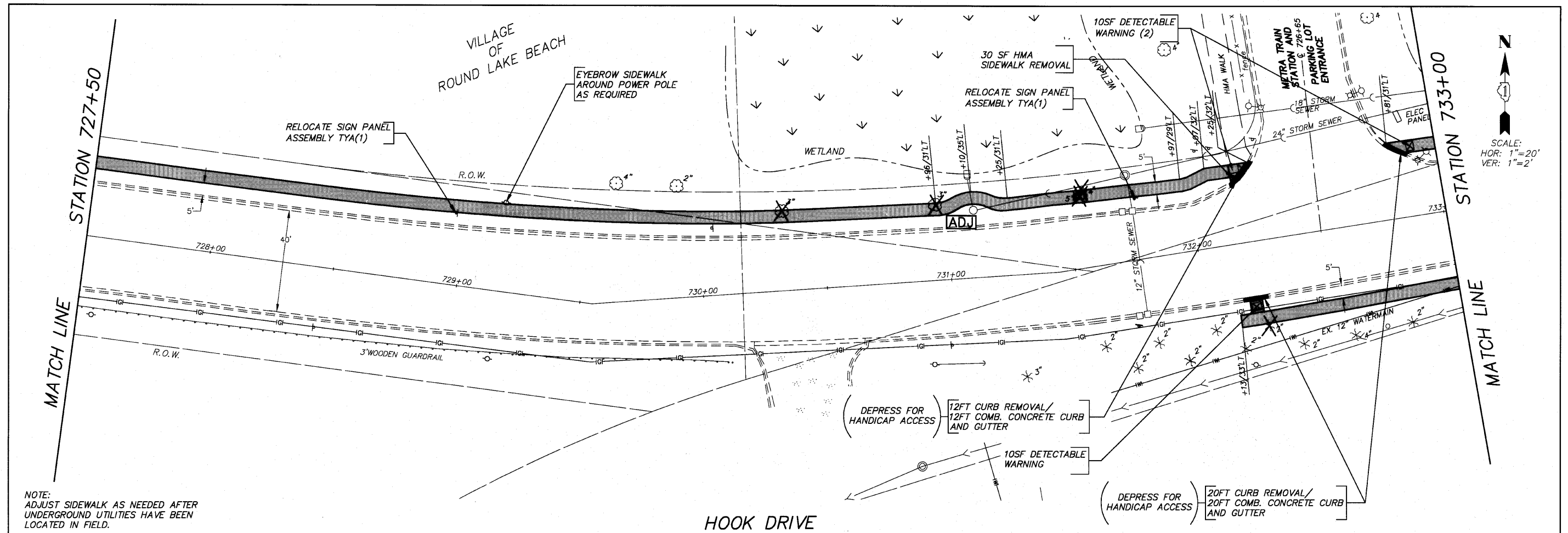
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	FILE NAME =	DRAWN = EC	REVISED =		SCALE: 1"=20' SHEET NO. 20 OF 75 SHEETS STA. 716+50 TO STA. 722+00			CONTRACT NO. 63467		ILLINOIS FED. AID PROJECT	
	PLOT SCALE =	CHECKED = RJD	REVISED =								
	PLOT DATE =	DATE = 01/19/10	REVISED =								



NOTE:  
 • ADJUST SIDEWALK AS NEEDED AFTER UNDERGROUND UTILITIES HAVE BEEN LOCATED IN FIELD.  
 • SEE SHEET 2, NOTE 28 FOR SIDEWALK ALIGNMENT REQUIREMENTS.

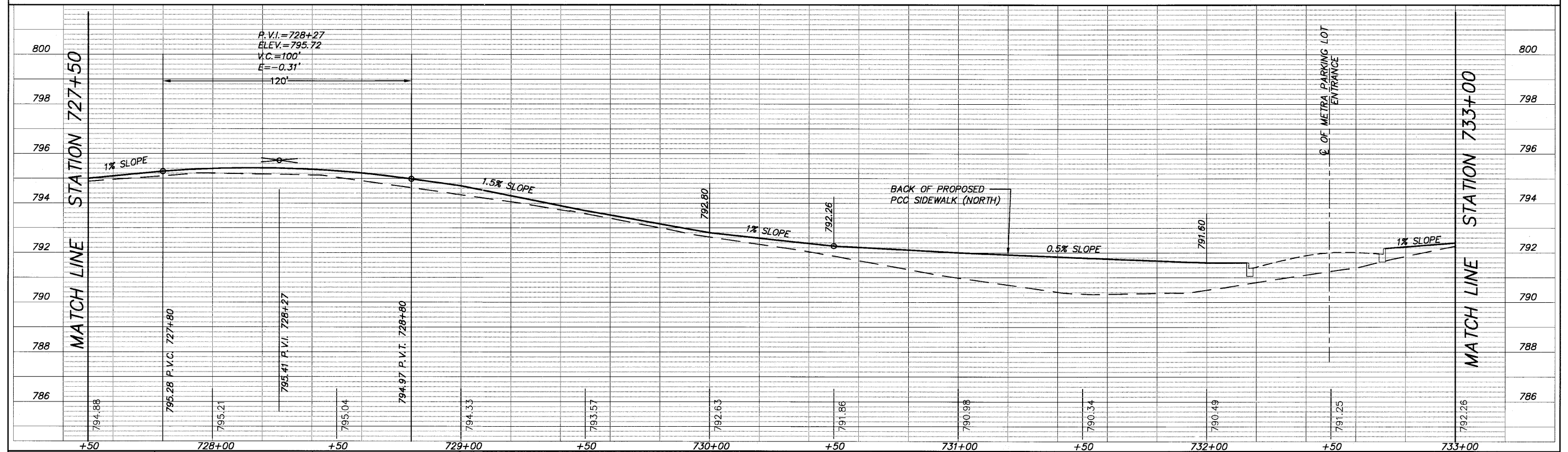


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	FILE NAME =	DRAWN = EC	REVISED =			SCALE: 1"=20'	SHEET NO. 21 OF 75 SHEETS	10-00073-00-SW	LAKE	75	21
	PLOT SCALE =	CHECKED = RJD	REVISED =			STA. 722+00 TO	STA. 727+50				
	PLOT DATE =	DATE = 01/19/10	REVISED =					CONTRACT NO. 63467		ILLINOIS FED. AID PROJECT	

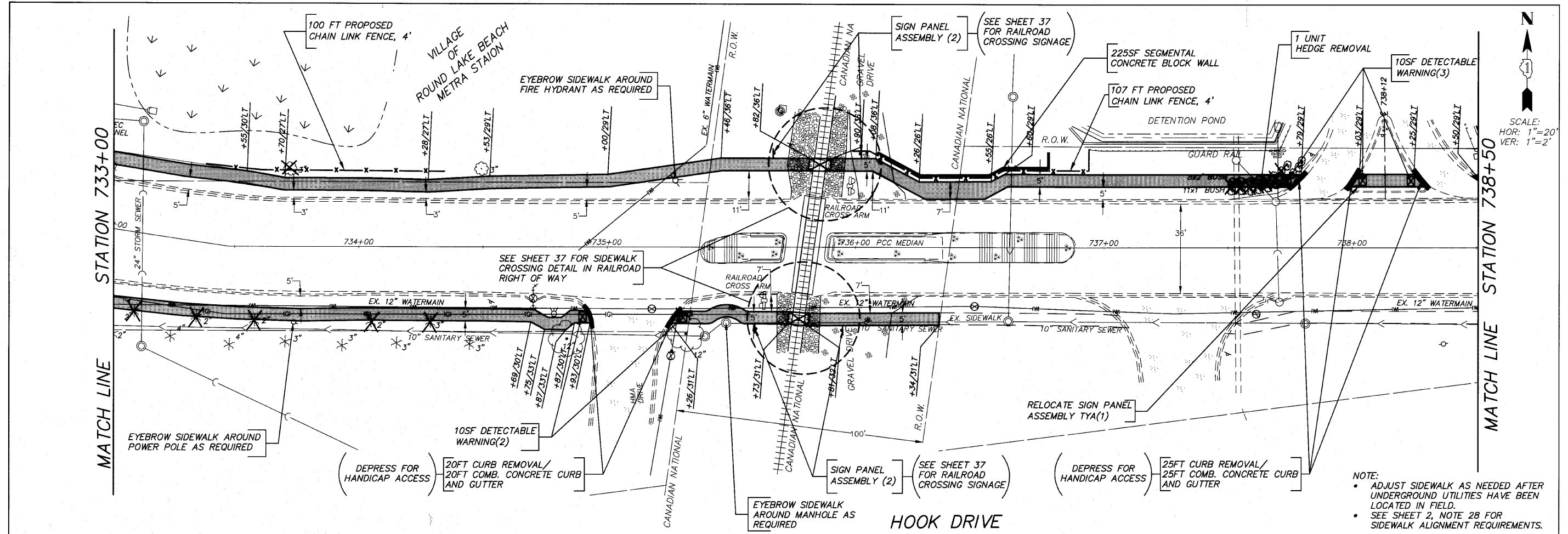


NOTE:  
ADJUST SIDEWALK AS NEEDED AFTER  
UNDERGROUND UTILITIES HAVE BEEN  
LOCATED IN FIELD.

SCALE:  
HOR: 1"=20'  
VER: 1"=2'

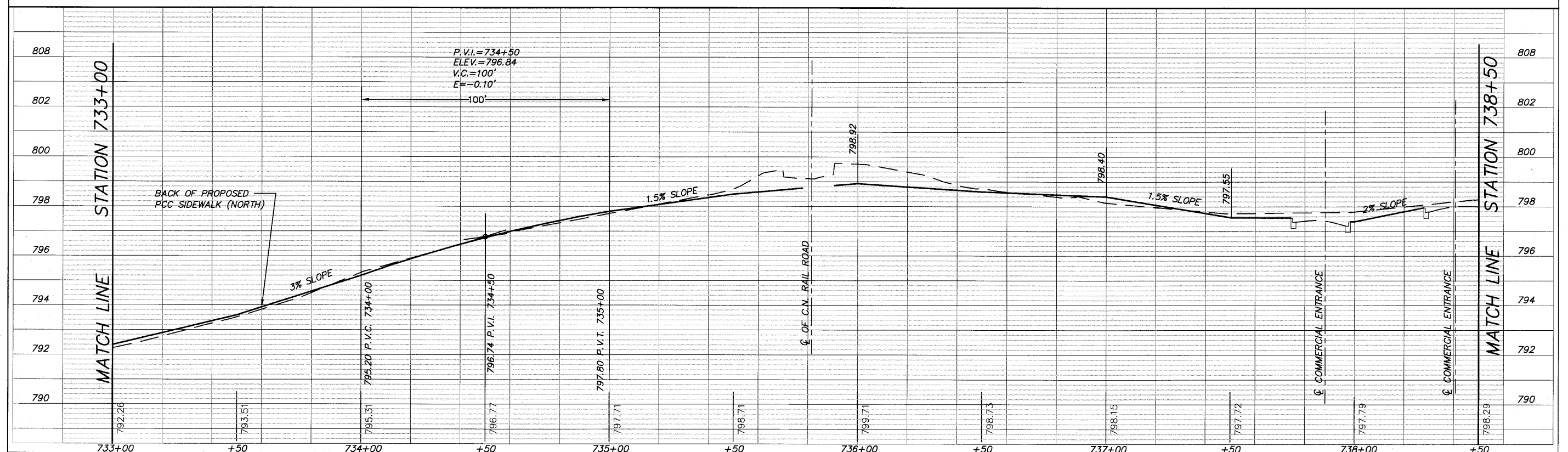


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	FILE NAME =	DRAWN = EC	REVISED =		SCALE: 1"=20'	SHEET NO. 22 OF 75 SHEETS	STA. 727+50 TO STA. 733+00	10-00073-00-SW	LAKE	75	22	
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	PLOT DATE =	DATE = 01/19/10	REVISED =		ILLINOIS FED. AID PROJECT							

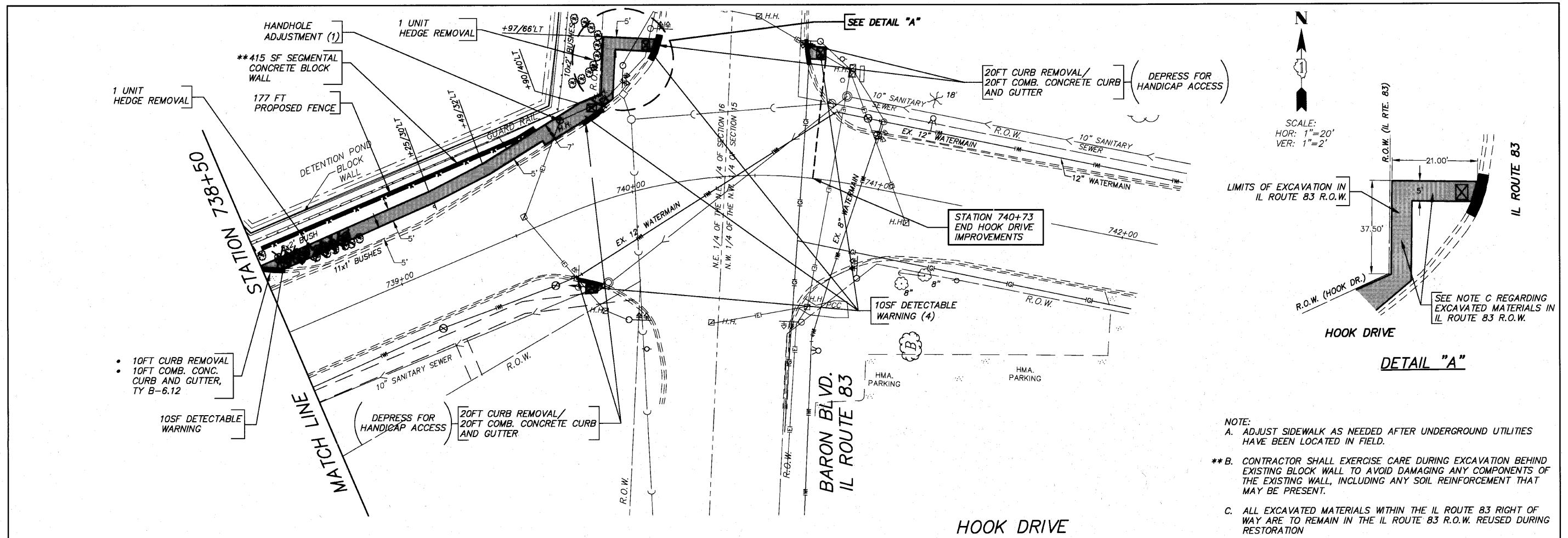


SCALE:  
HOR: 1"=20'  
VER: 1"=2'

- NOTE:
- ADJUST SIDEWALK AS NEEDED AFTER UNDERGROUND UTILITIES HAVE BEEN LOCATED IN FIELD.
  - SEE SHEET 2, NOTE 28 FOR SIDEWALK ALIGNMENT REQUIREMENTS.



FILE NAME = 102589HOOK04.DWG	USER NAME =	DESIGNED = RJD	REVISED =	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b>	F.A. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
	FILE NAME =	DRAWN = EC	REVISED =			10-00073-00-SW	LAKE	75	23	
	PLOT SCALE =	CHECKED = RJD	REVISED =			STA. 733+00 TO STA. 738+50	CONTRACT NO. 63467			
	PLOT DATE =	DATE = 01/19/10	REVISED =			ILLINOIS FED. AID PROJECT				

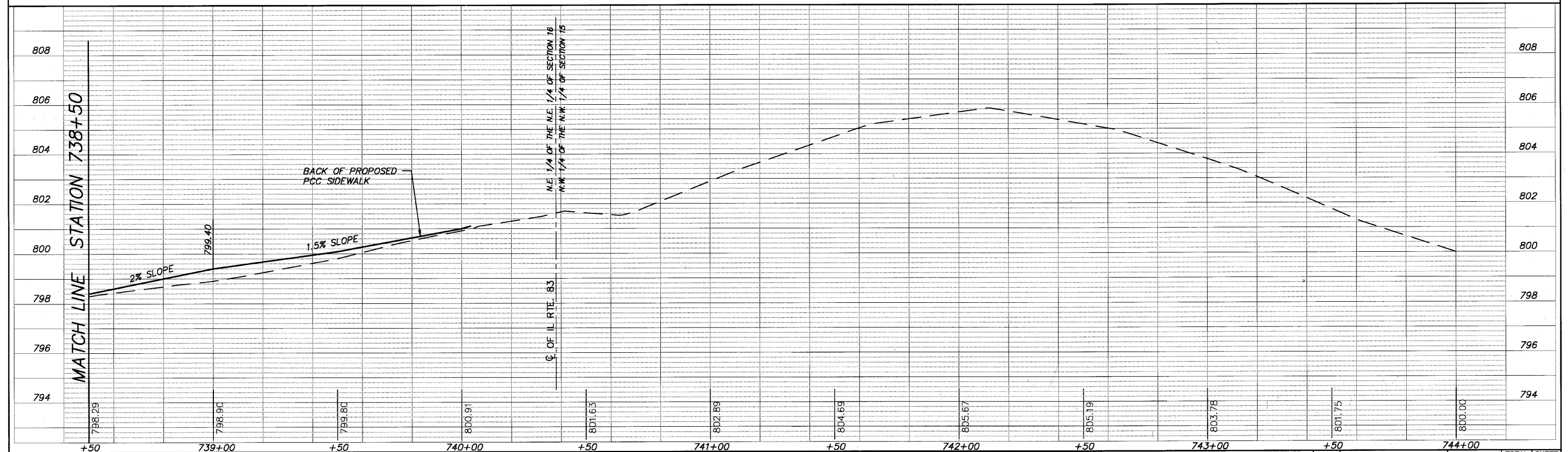


**NOTE:**

A. ADJUST SIDEWALK AS NEEDED AFTER UNDERGROUND UTILITIES HAVE BEEN LOCATED IN FIELD.

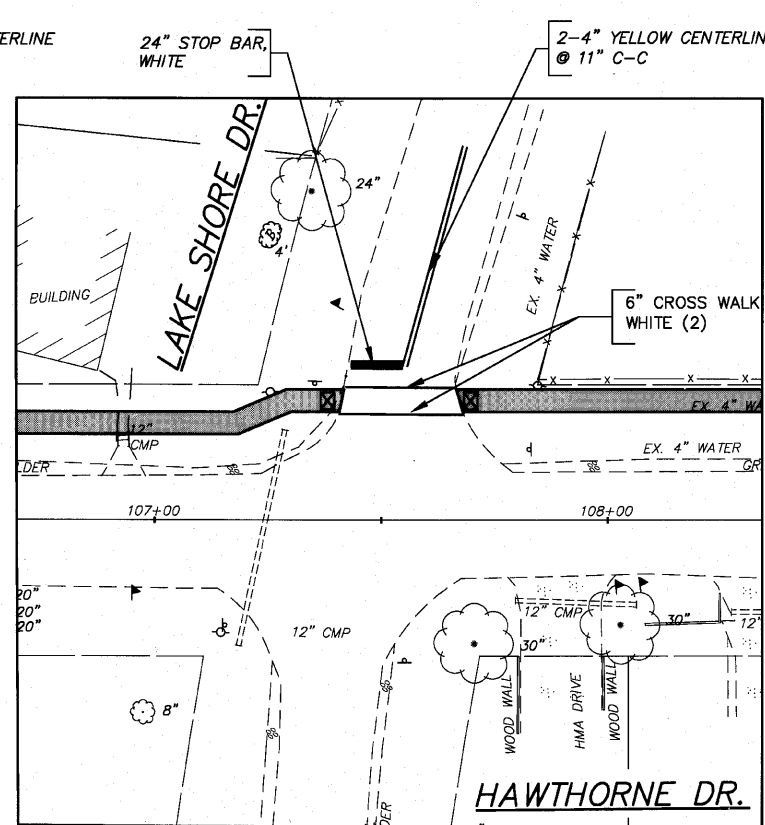
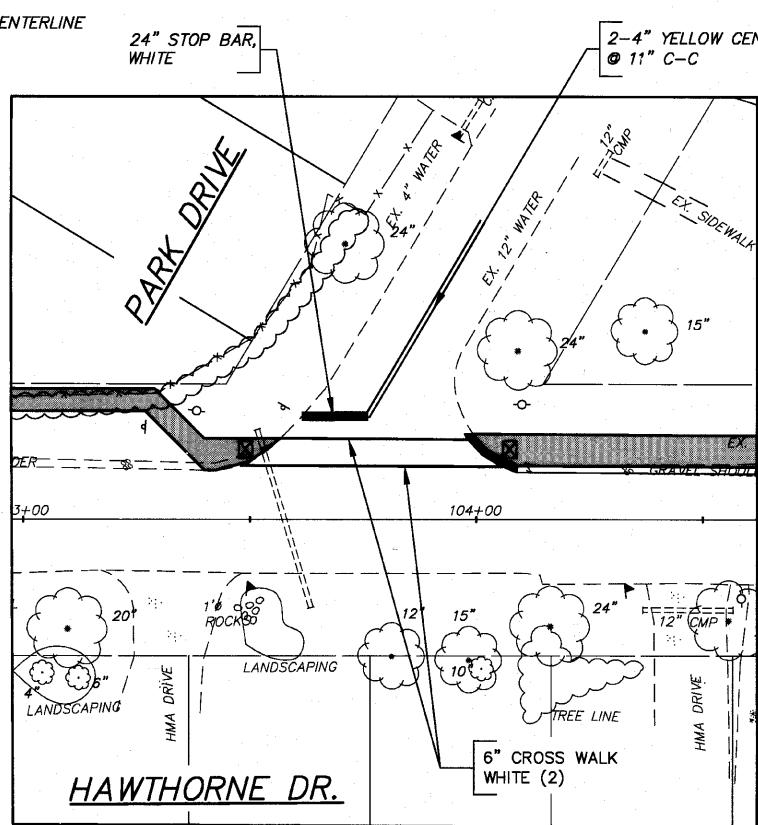
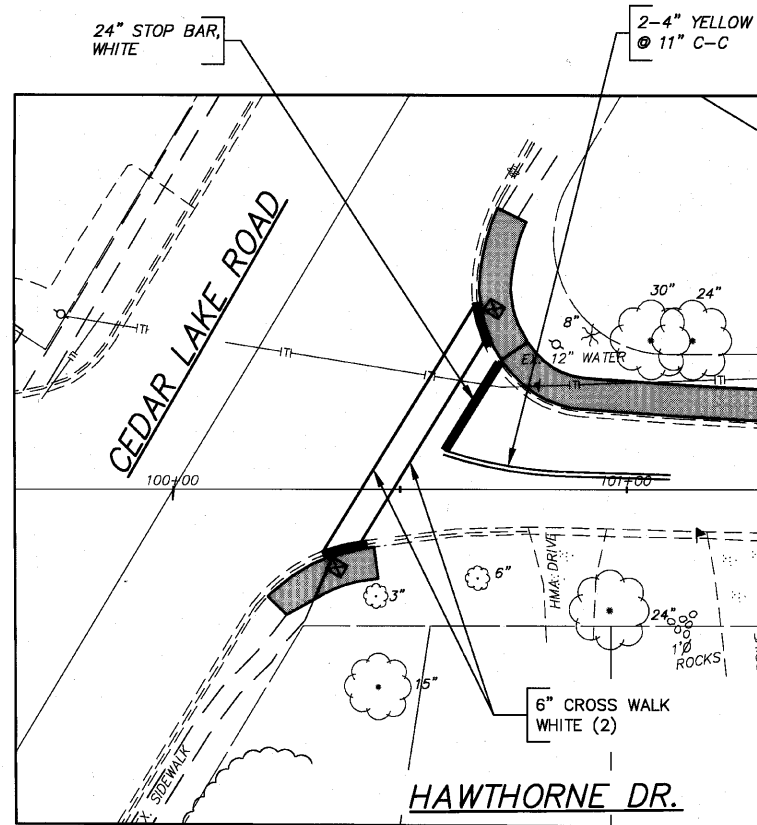
\*\*B. CONTRACTOR SHALL EXERCISE CARE DURING EXCAVATION BEHIND EXISTING BLOCK WALL TO AVOID DAMAGING ANY COMPONENTS OF THE EXISTING WALL, INCLUDING ANY SOIL REINFORCEMENT THAT MAY BE PRESENT.

C. ALL EXCAVATED MATERIALS WITHIN THE IL ROUTE 83 RIGHT OF WAY ARE TO REMAIN IN THE IL ROUTE 83 R.O.W. REUSED DURING RESTORATION

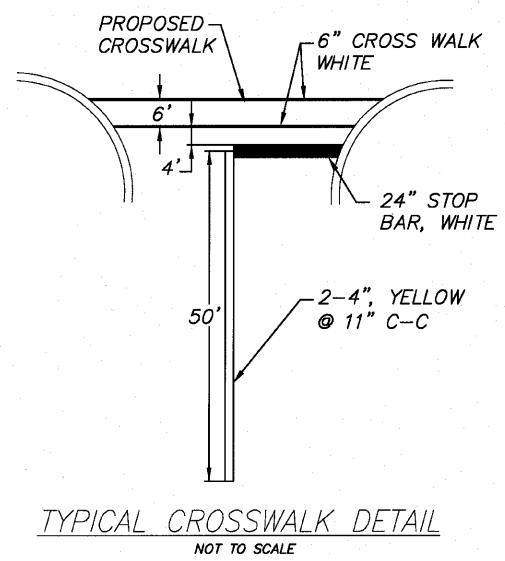
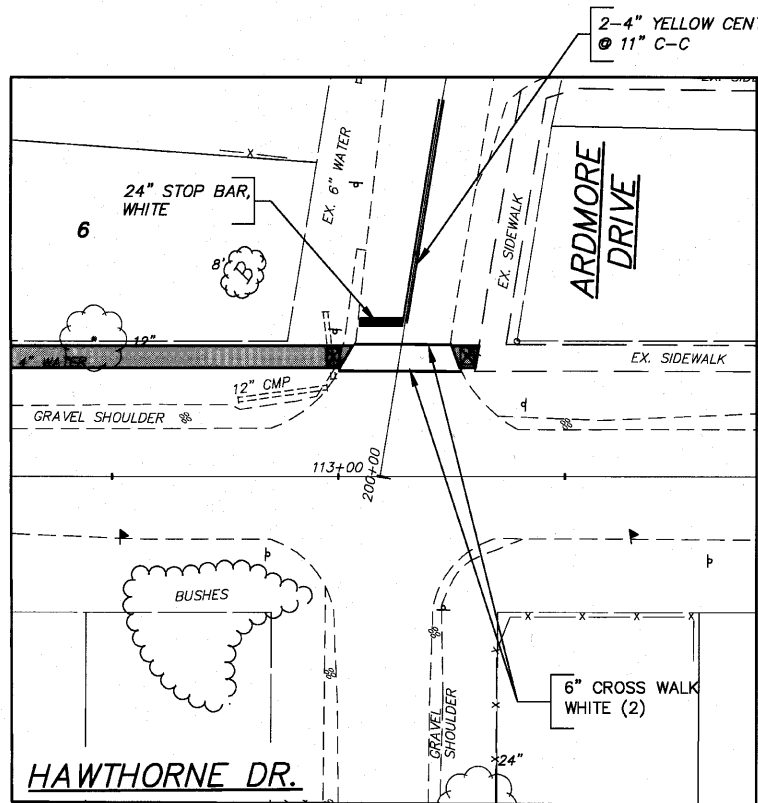
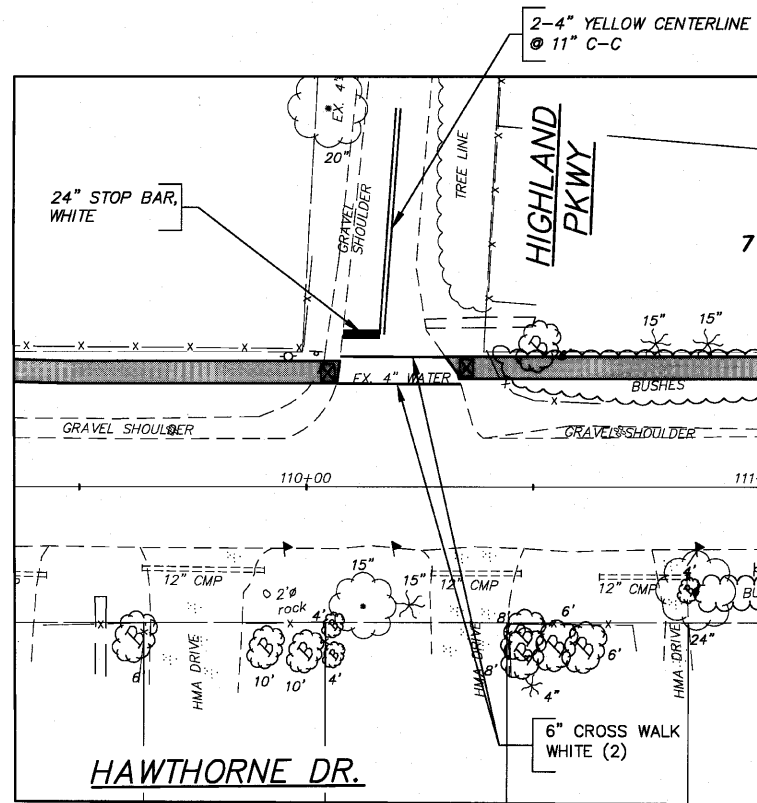


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	FILE NAME =	DRAWN = EC	REVISED =		SCALE: 1"=20'	SHEET NO. 24 OF 75 SHEETS	STA. 738+50 TO	STA. 744+00	10-00073-00-SW	LAKE	75	24
	PLOT SCALE =	CHECKED = RJD	REVISED =		CONTRACT NO. 63467							
	PLOT DATE =	DATE = 01/19/10	REVISED =		ILLINOIS FED. AID PROJECT							





N  
 1  
 SCALE:  
 HOR: 1"=20'



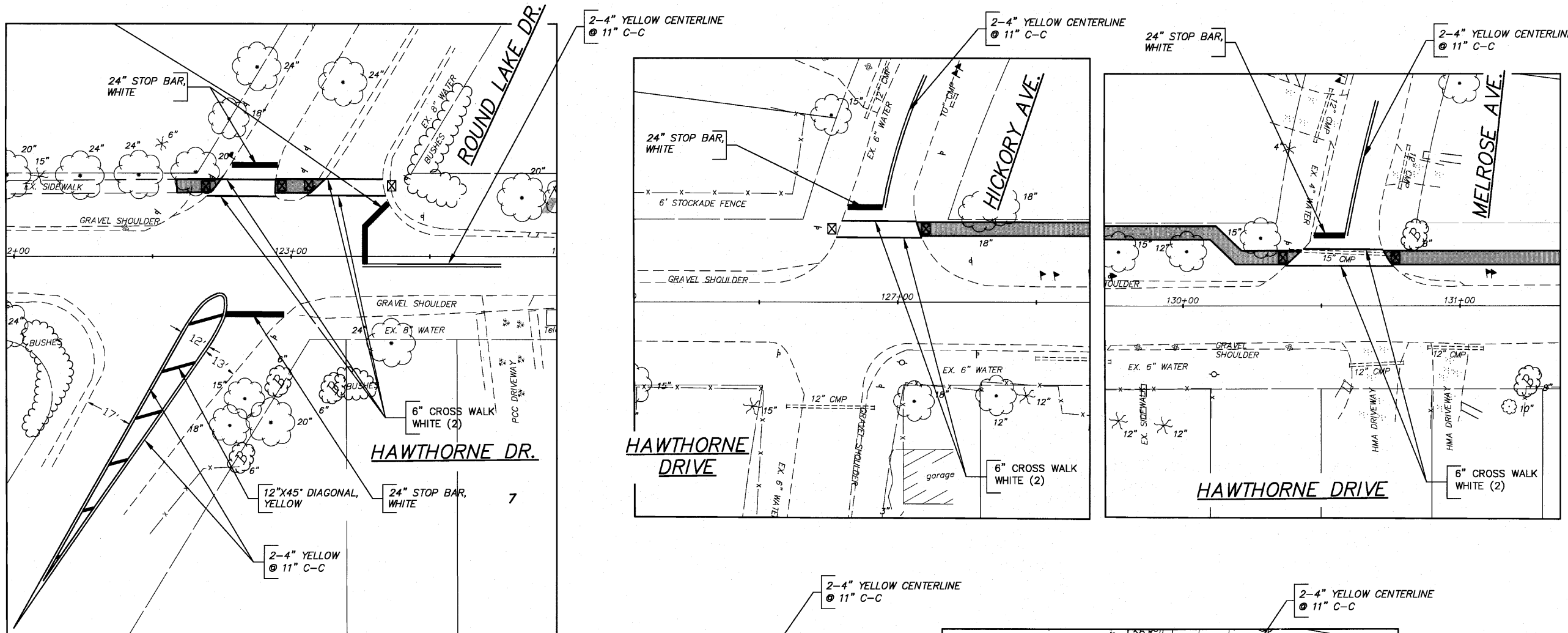
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PLOT DATE =	PLOT DATE =	DATE - 01/19/10	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

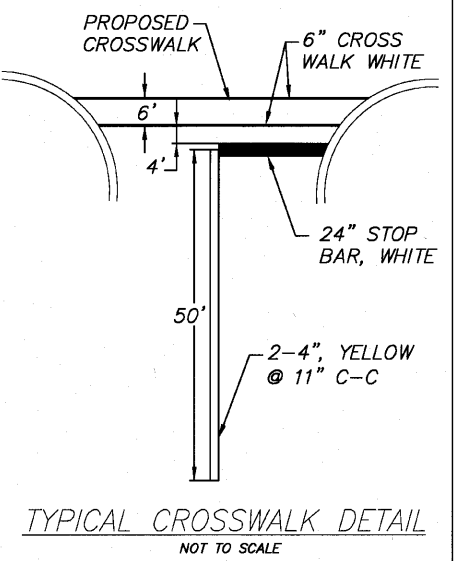
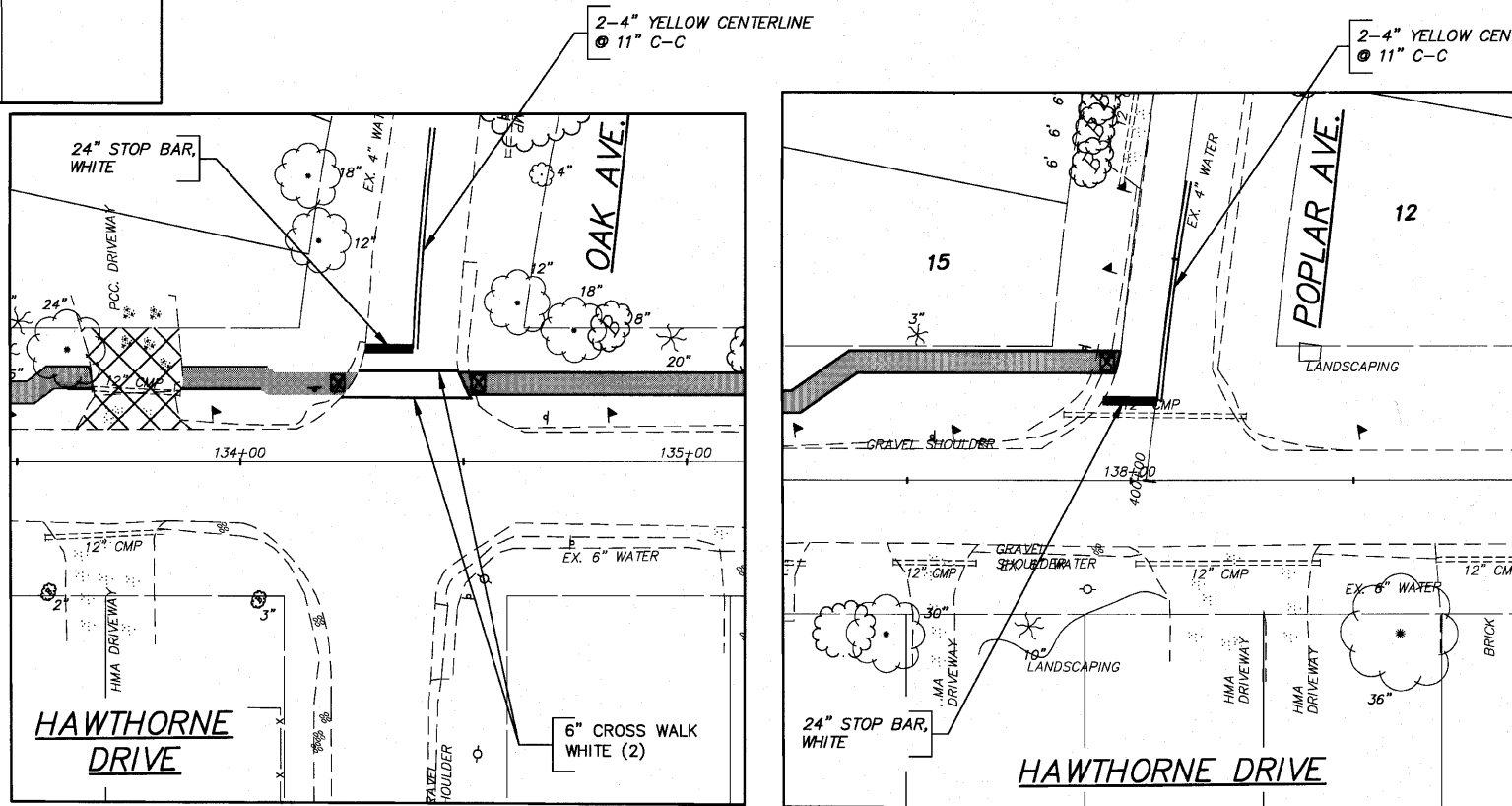
PAVEMENT MARKINGS  
 HAWTHORNE DRIVE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	25
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	

SCALE: 1"=20' SHEET NO. 25 OF 75 SHEETS



SCALE:  
HOR: 1"=20'



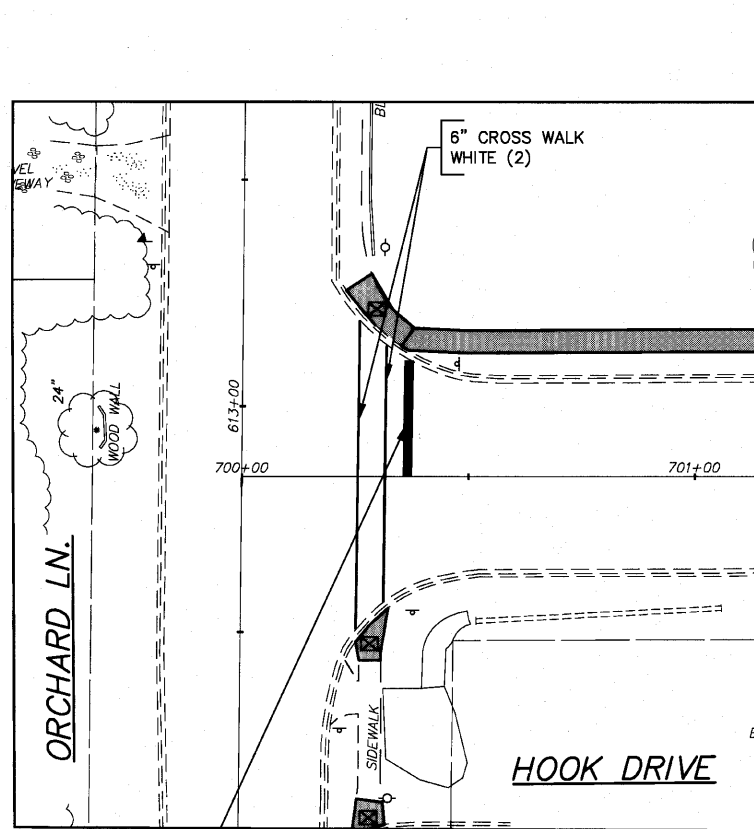
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	PLOT DATE =	DATE = 01/19/10	REVISED =

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

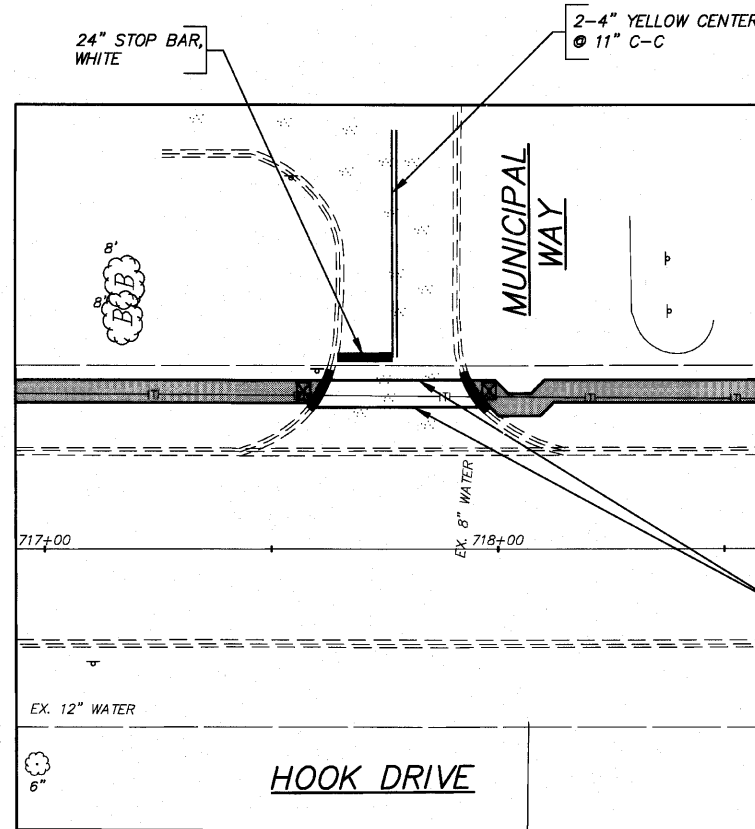
**PAVEMENT MARKINGS  
HAWTHORNE DRIVE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	26
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	

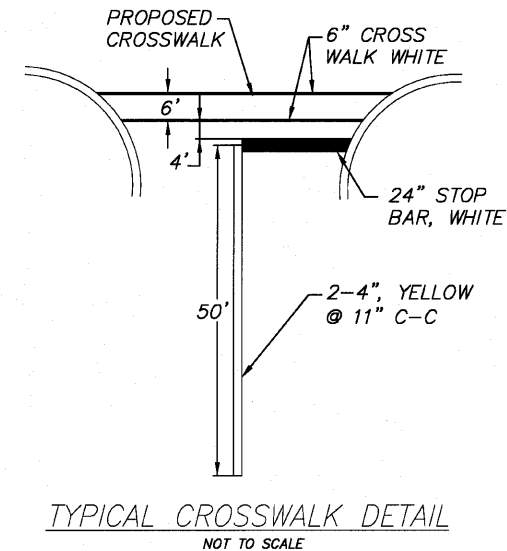
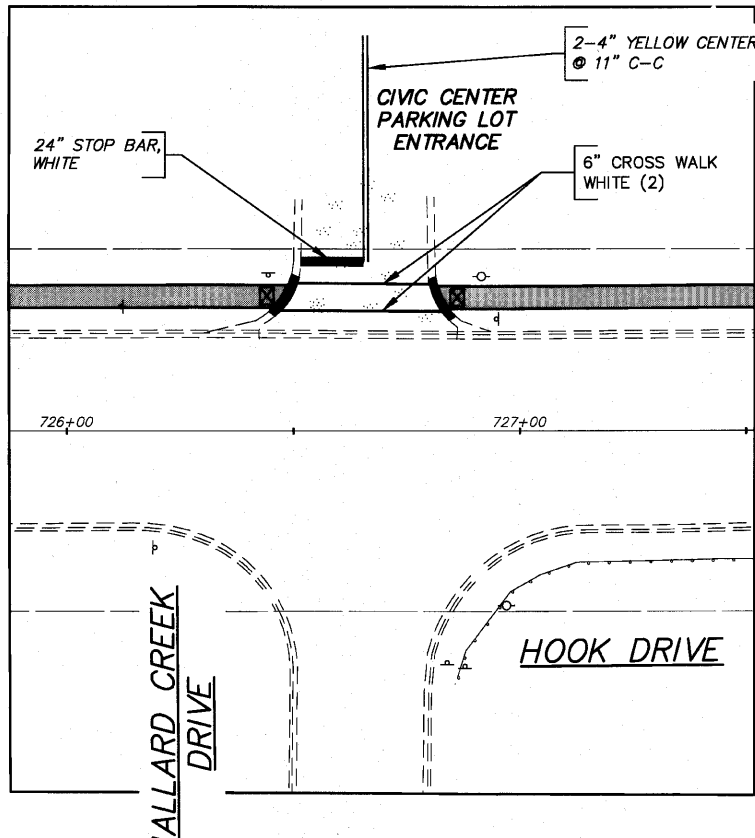
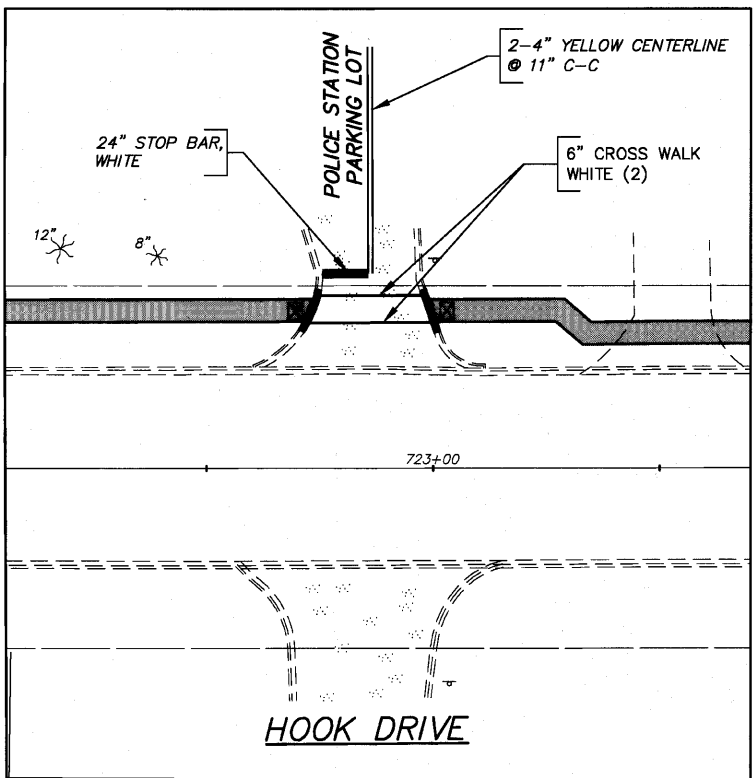
SCALE: 1"=20' SHEET NO. 26 OF 75 SHEETS



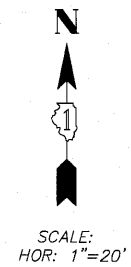
24" STOP BAR, WHITE



6" CROSS WALK WHITE (2)



TYPICAL CROSSWALK DETAIL  
NOT TO SCALE



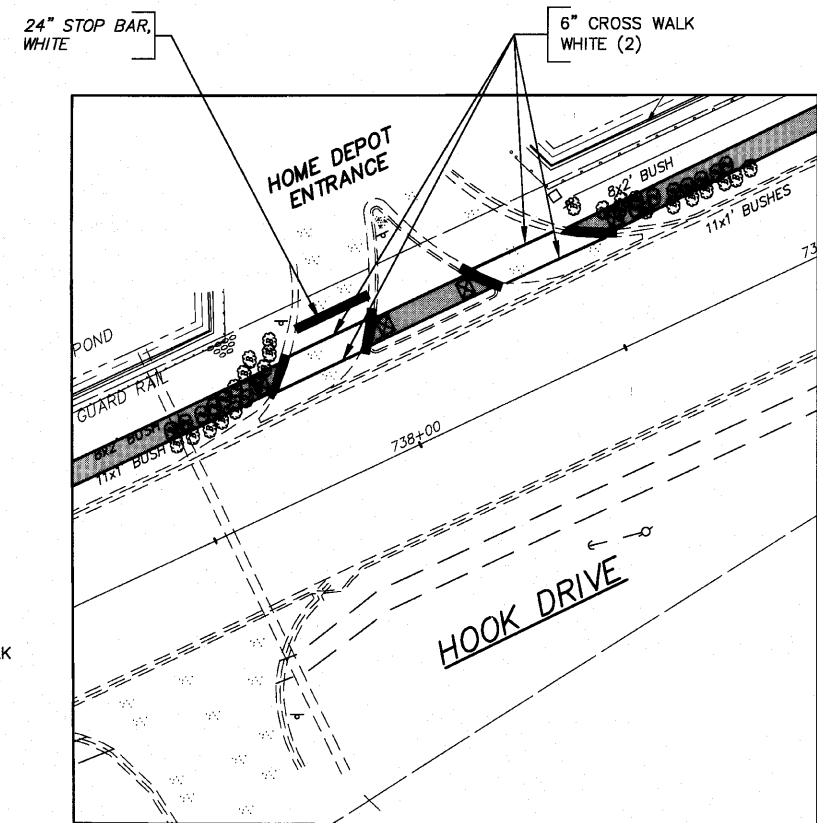
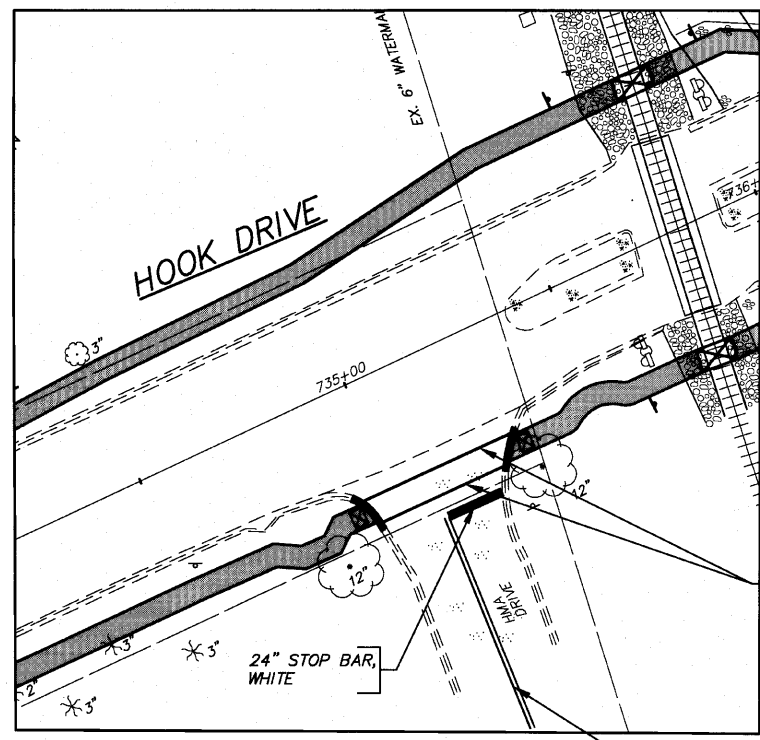
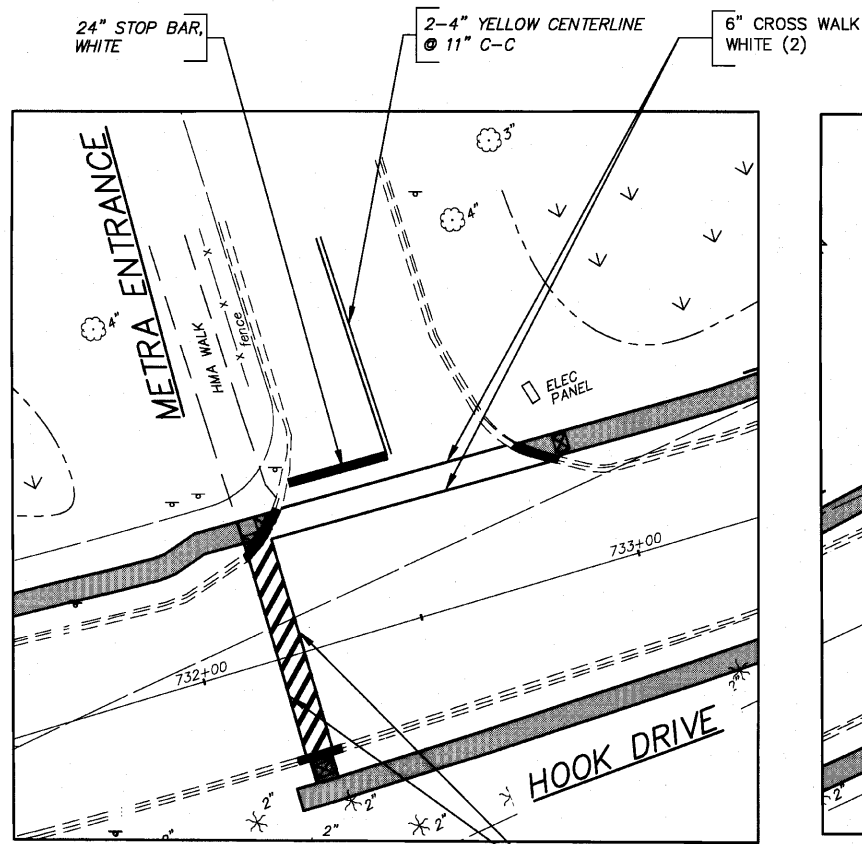
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	PLOT DATE =	DATE - 01/19/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

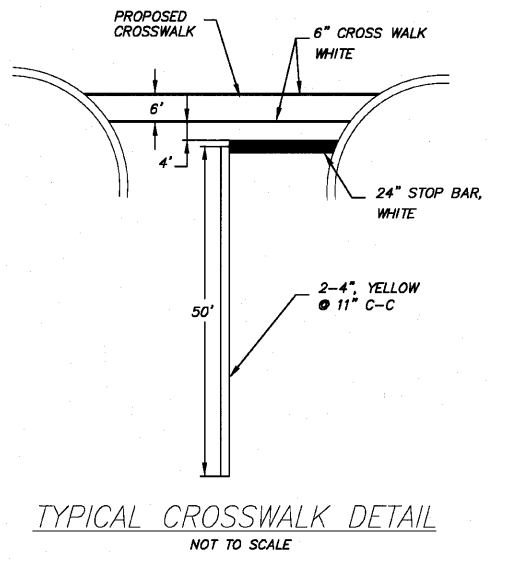
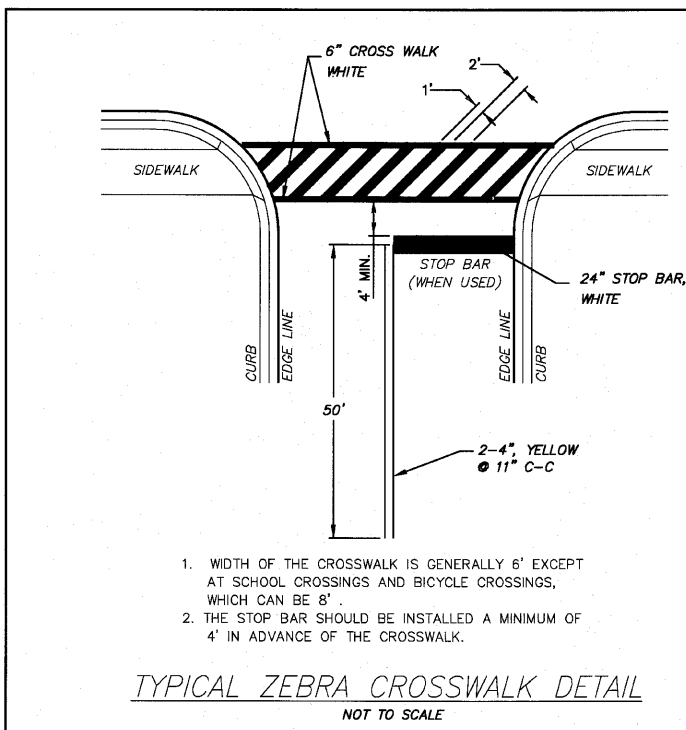
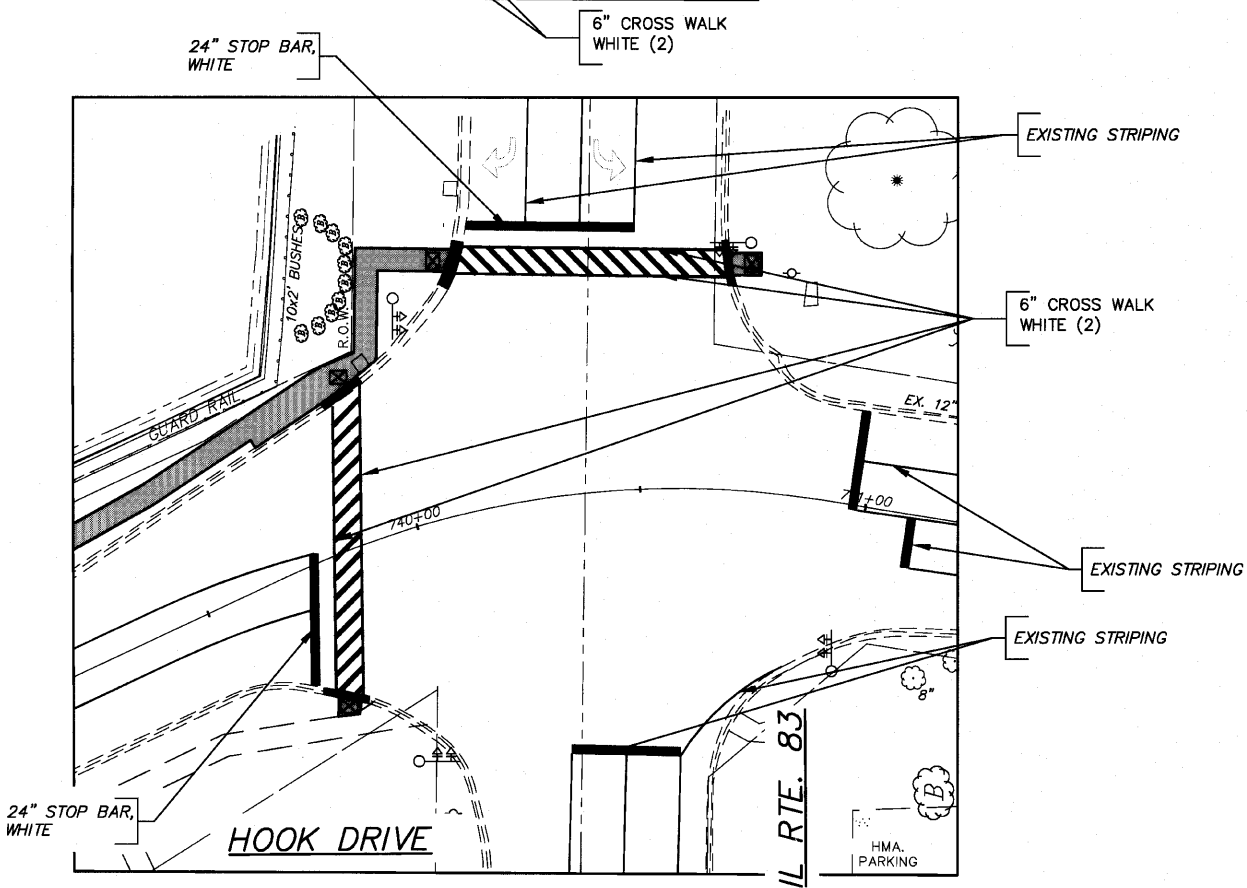
PAVEMENT MARKINGS  
HOOK DRIVE

SCALE: 1"=20' SHEET NO. 27 OF 75 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00073-00-SW	LAKE	75	27
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



N  
1  
SCALE:  
HOR: 1"=20'



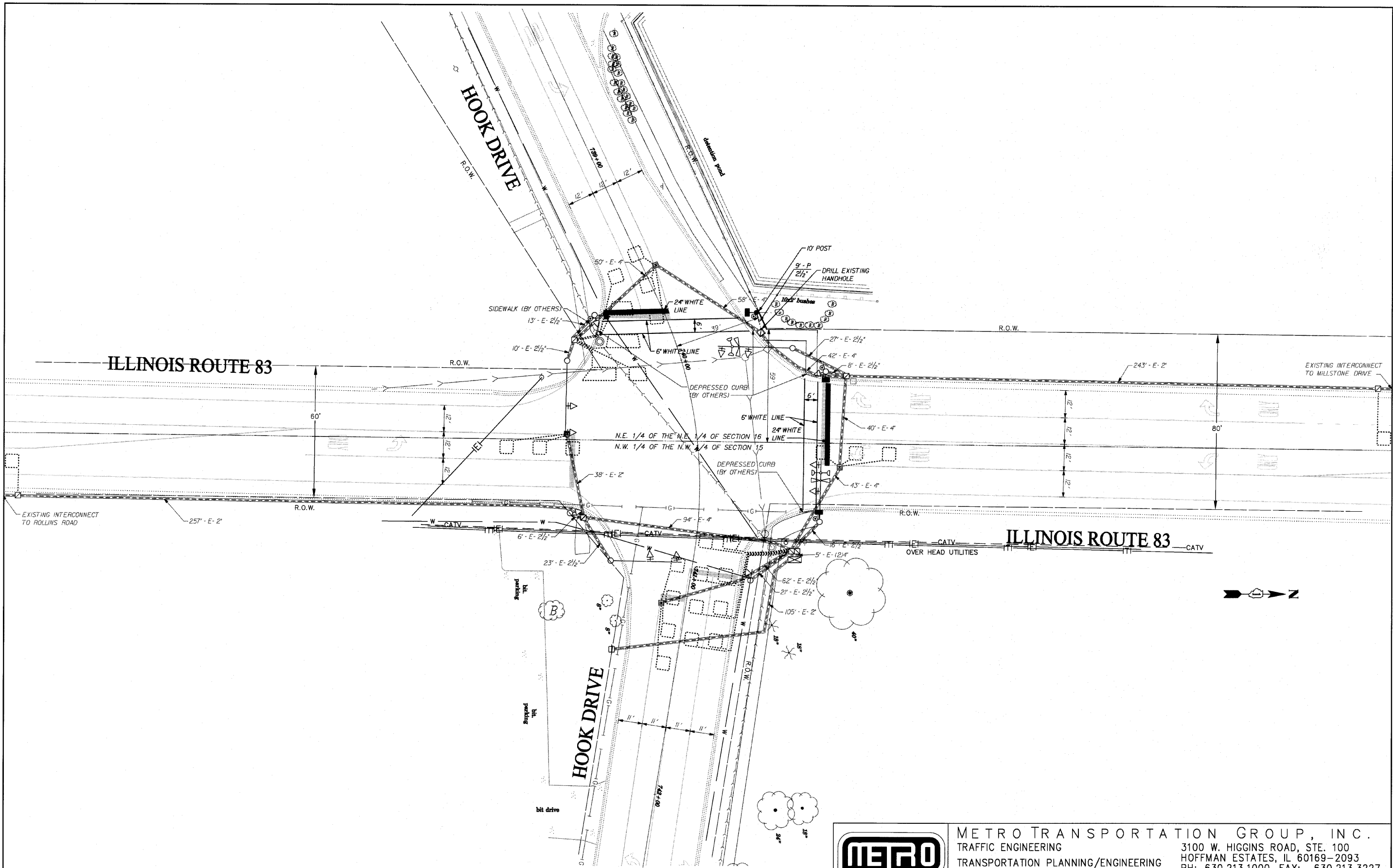
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	PLOT DATE =	DATE = 01/19/10	REVISED =

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS

SCALE: 1"=20' SHEET NO. 28 OF 75 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	28
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



METRO TRANSPORTATION GROUP, INC.  
 TRAFFIC ENGINEERING  
 TRANSPORTATION PLANNING/ENGINEERING  
 SIGNAL SYSTEMS/DESIGN  
 3100 W. HIGGINS ROAD, STE. 100  
 HOFFMAN ESTATES, IL 60169-2093  
 PH: 630.213.1000, FAX: 630.213.3227  
 www.metrotransportation.com

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PLOT SCALE =	DATE — 01/19/10		

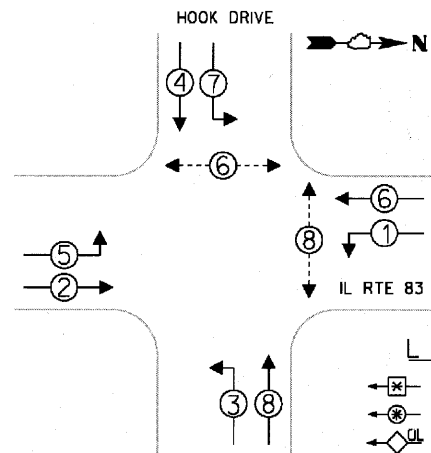
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION  
 PLAN**

SCALE: 1"=20' SHEET NO. 29 OF 75 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	29
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	

**CONTROLLER SEQUENCE**

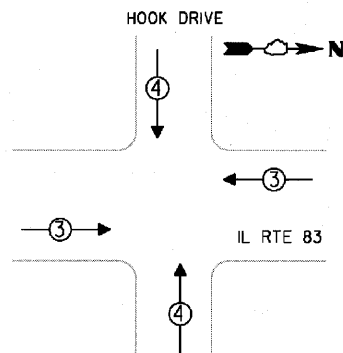


**LEGEND**

- ◀ [Symbol] ▶ SINGLE ENTRY PHASE
- ◀ [Symbol] ▶ DUAL ENTRY PHASE
- ◀ [Symbol] ▶ OVERLAP
- ◀ [Symbol] ▶ PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE.

**PHASE DESIGNATION DIAGRAM**

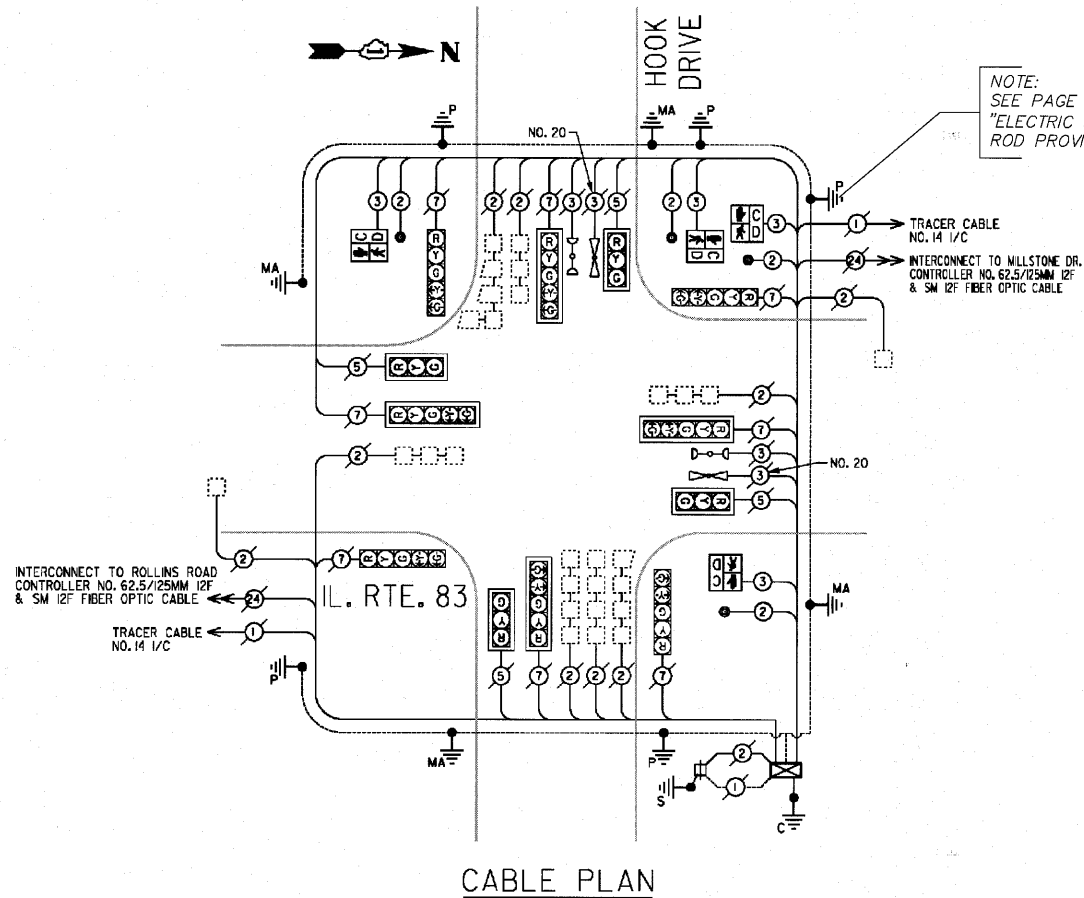
**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**PROPOSED EMERGENCY VEHICLE PREEMPTORS**

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↔	↕

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED % OPERATIONS		
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	16	135	12	0.10	19.20
PED. SIGNAL	4	90	25	1.00	100.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84	25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 441.20
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196					
ENERGY SUPPLY - CONTACT: ROBERT KOLLAR PHONE: (630) 576-8158 COMPANY: COMED					



NOTE:  
SEE PAGE 23 OF THE SPECIAL PROVISIONS  
"ELECTRIC SERVICE INSTALLATION" FOR GROUNDING  
ROD PROVISIONS AND METHOD OF PAYMENT.

**SCHEDULE OF QUANTITIES**

QTY	UNIT	ITEM DESCRIPTION
9	FOOT	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
685	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
713	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
1	EACH	DRILL EXISTING HANDHOLE
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM-LEVEL 1



**METRO TRANSPORTATION GROUP, INC.**  
TRAFFIC ENGINEERING  
TRANSPORTATION PLANNING/ENGINEERING  
SIGNAL SYSTEMS/DESIGN  
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HOFFMAN ESTATES, IL 60169-2093  
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FILE NAME = 102589METRO6.DWG	USER NAME =	DESIGNED -- RJD	REVISED -- 06/29/10
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	PLOT SCALE =	CHECKED -- RJD	REVISED --
	PLOT DATE =	DATE -- 01/19/10	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION  
PLAN**

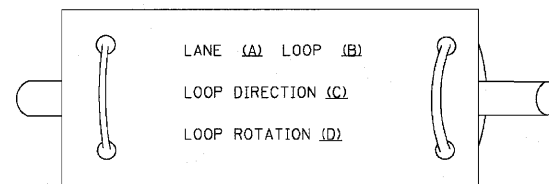
SCALE: N.T.S. SHEET NO. 30 OF 75 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	30
CONTRACT NO. 63467				
ILLINOIS FED. AID PROJECT				

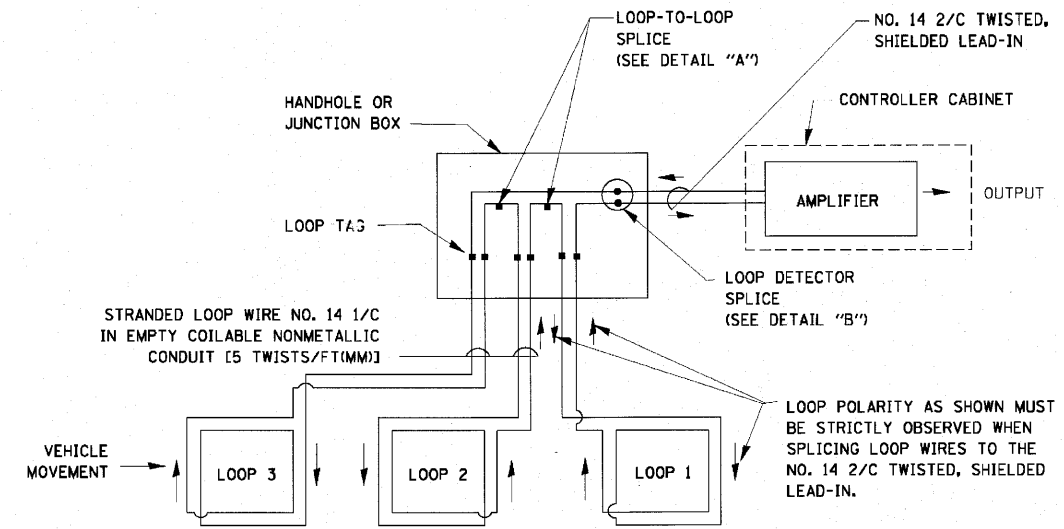
## LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

### LOOP LEAD-IN CABLE TAG

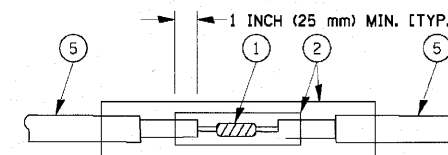


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

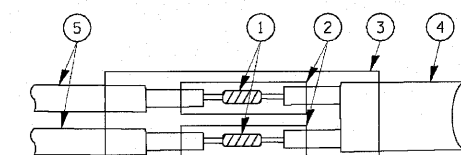


### DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

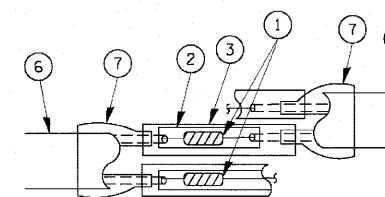


DETAIL "A"  
LOOP-TO-LOOP SPLICE

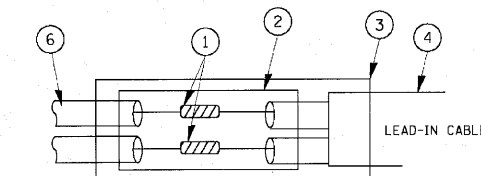


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

### TYPE I LOOP



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

### LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PREFORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = 102589METR01-4.DWG

USER NAME =	DESIGNED -- RJD	REVISED --
FILE NAME =	DRAWN -- EC	REVISED --
PLOT SCALE =	CHECKED -- RJD	REVISED --
PLOT DATE =	DATE -- 01/19/10	REVISED --

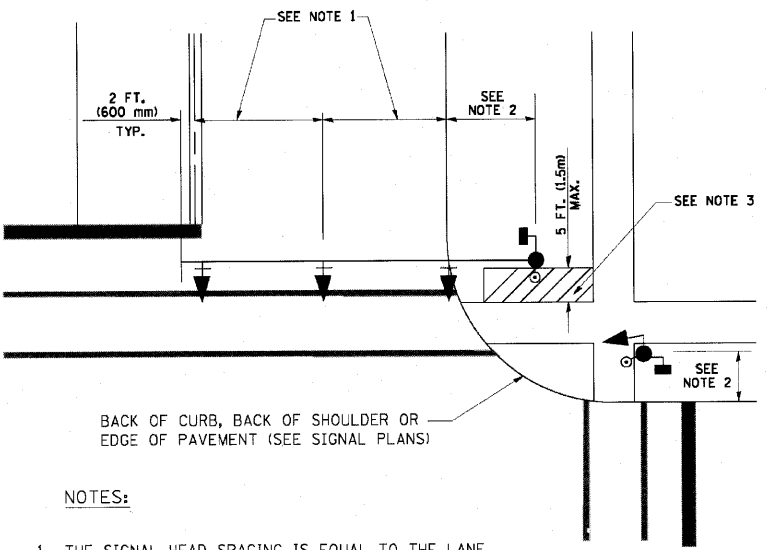
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARDS  
TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.T.S. SHEET NO. 31 OF 75 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	31
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	

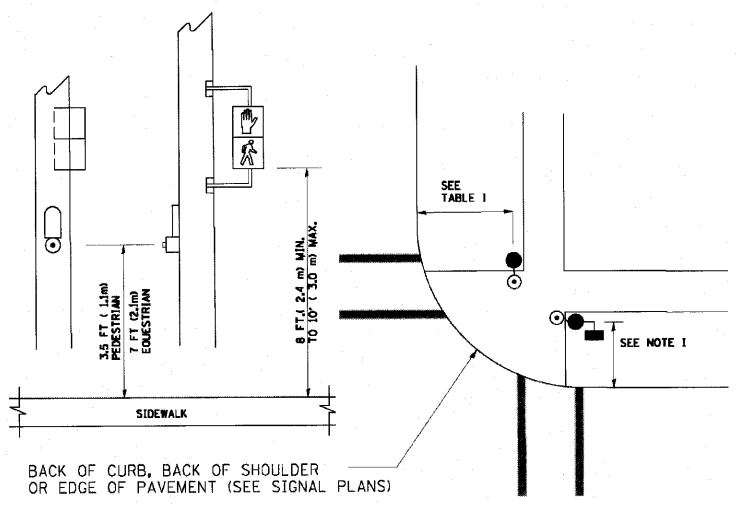
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**  
 MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

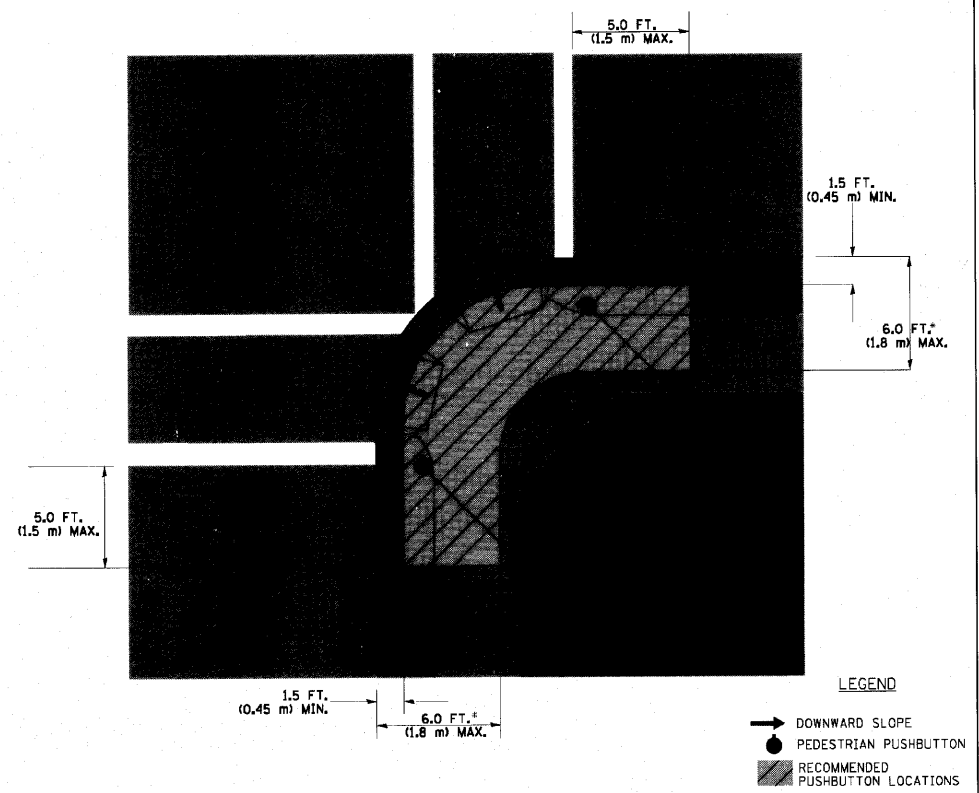
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

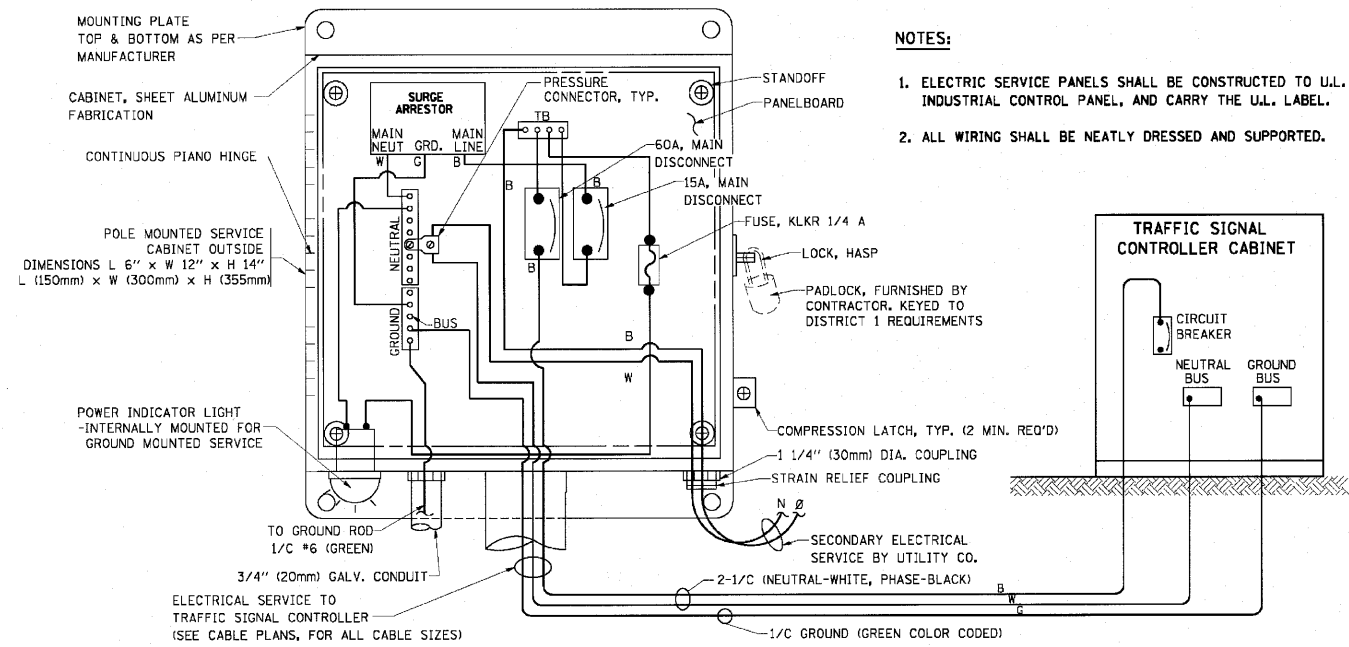
**TRAFFIC SIGNAL EQUIPMENT OFFSET**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

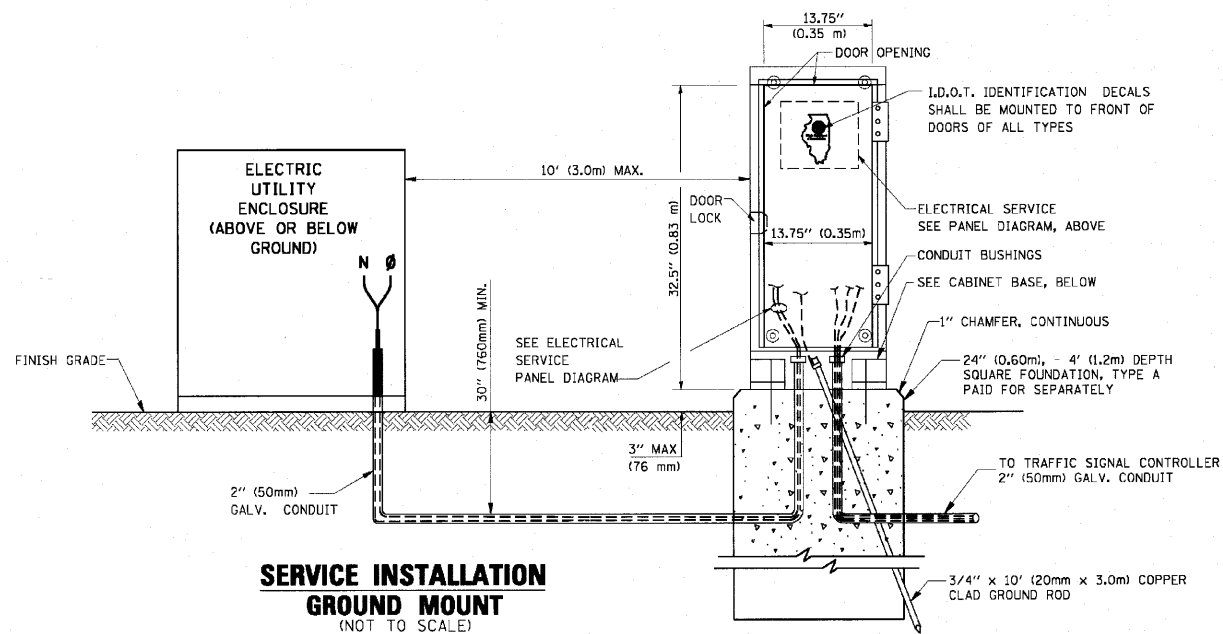
**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

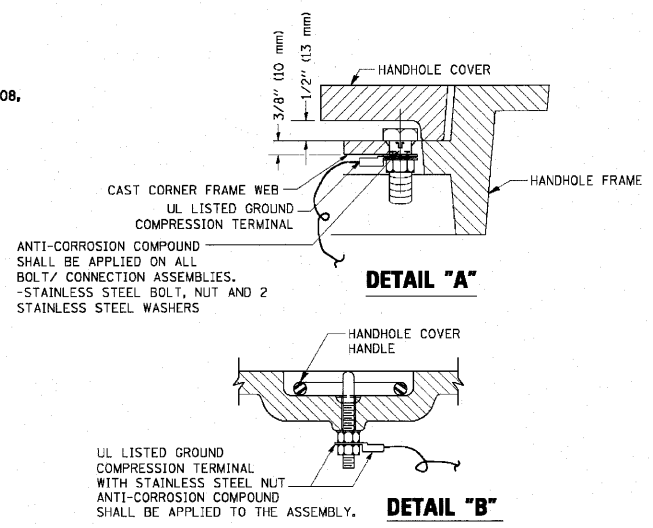
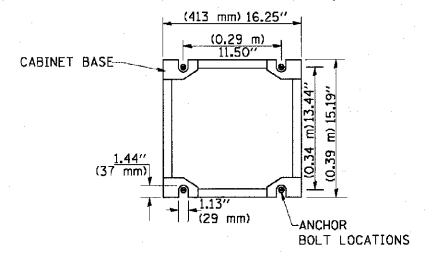




**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



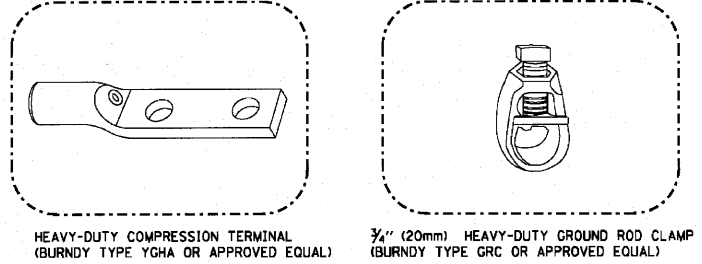
**CABINET - BASE BOLT PATTERN**  
 (NOT TO SCALE)



**NOTES:**

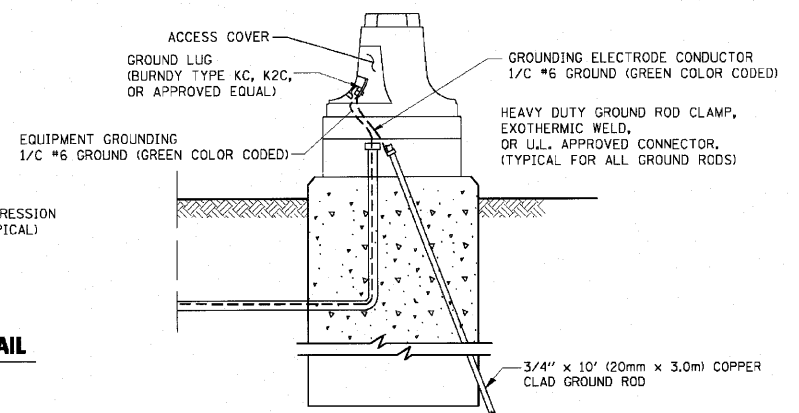
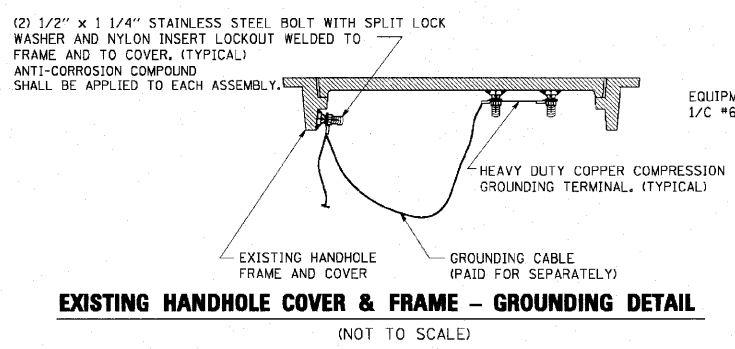
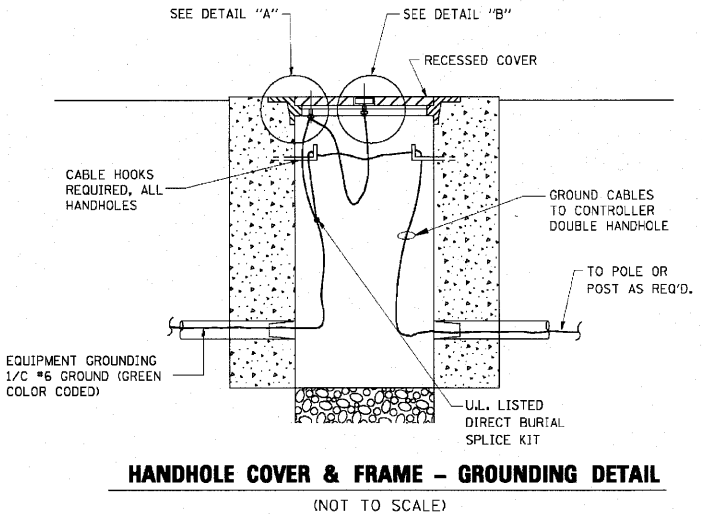
**GROUNDING SYSTEM**

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

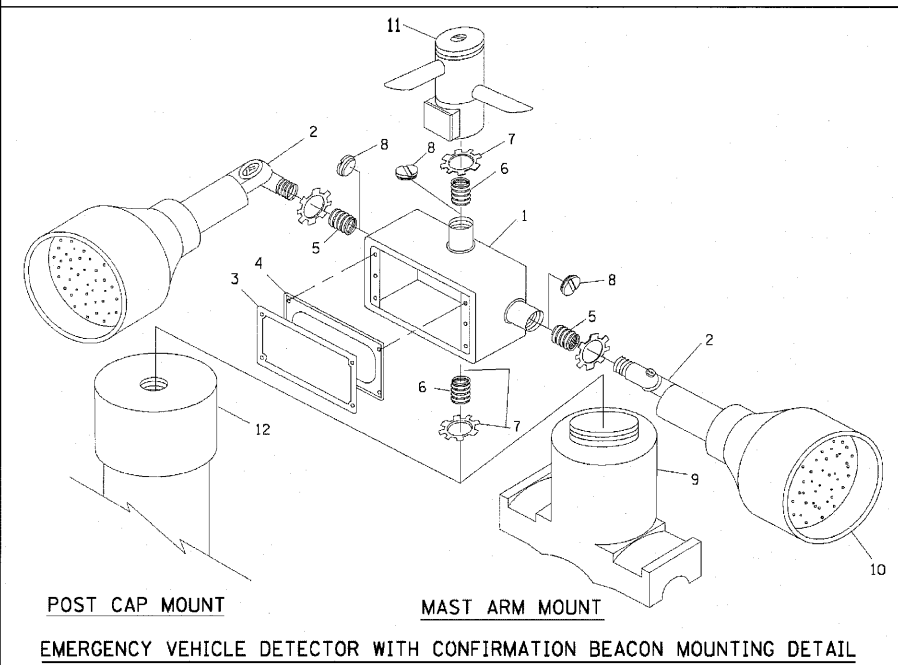
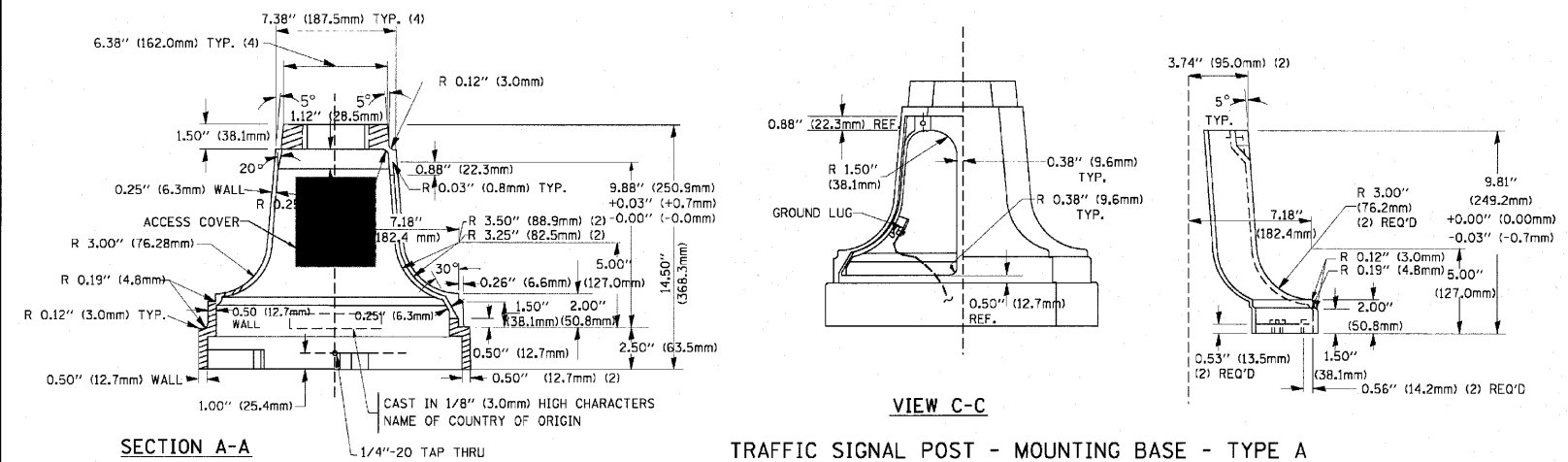
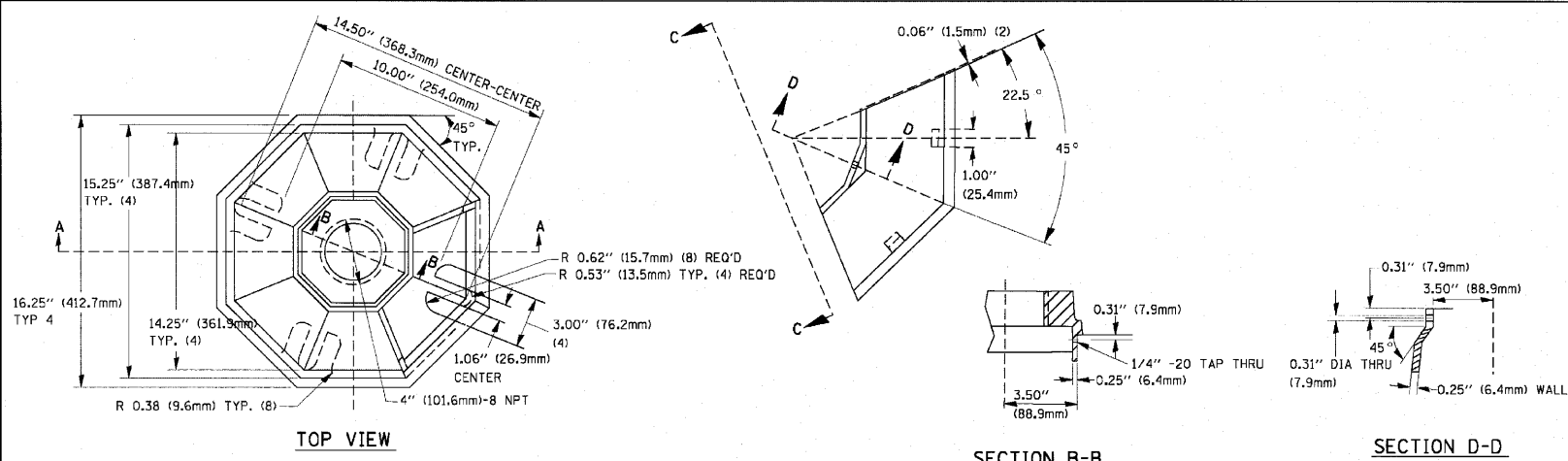


**NOTES:**

- ALL CLAMPS SHALL BE BRONZE OR COPPER, U.L. APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

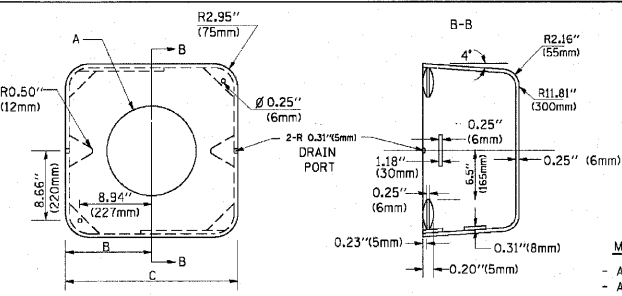


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FILE NAME =	DRAWN -- EC	REVISED --	---			10-00073-00-SW	LAKE	75	33	
PLOT SCALE =	CHECKED -- RJD	REVISED --	---			CONTRACT NO. 63467				
PLOT DATE =	DATE -- 01/19/10	REVISED --	---			ILLINOIS FED. AID PROJECT				
					SCALE: N.T.S.	SHEET NO. 33 OF 75 SHEETS				



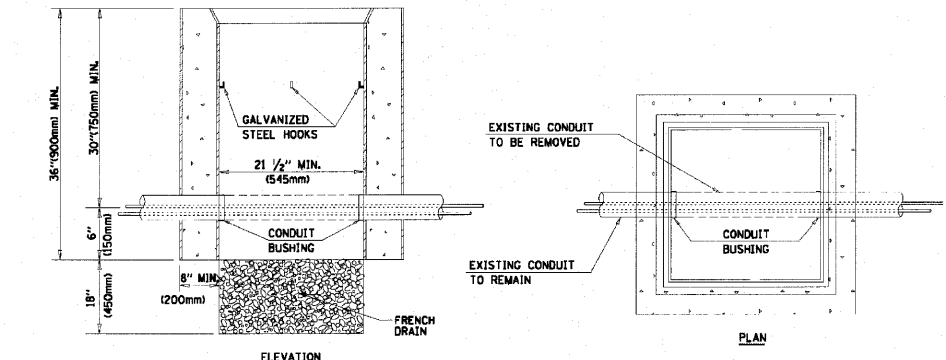
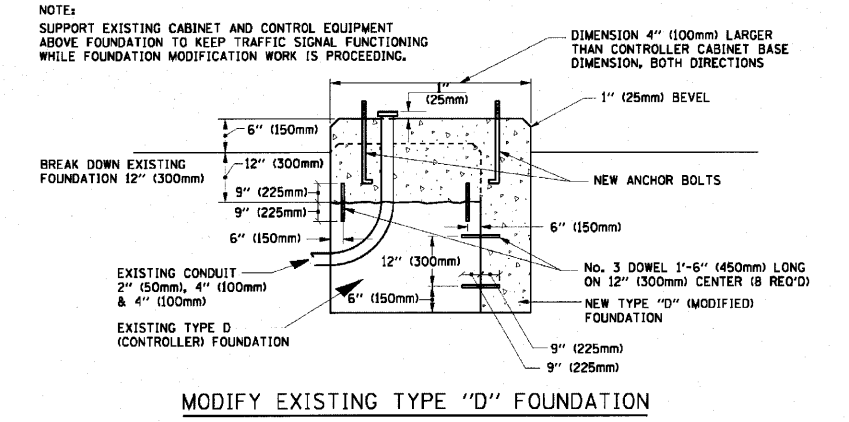
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\"/>
7	3/4\"/>
8	3/4\"/>
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
  - ITEM #1- 02/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
  - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\"/>

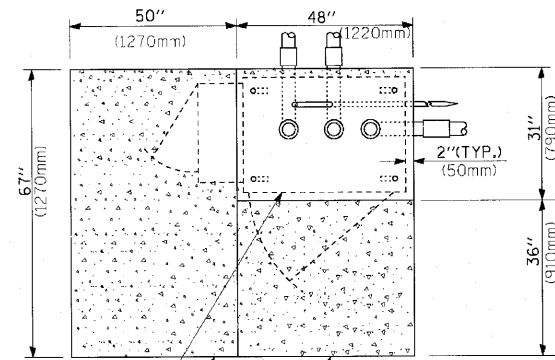


A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\"/>			
VARIABLES	10.75\"/>			
VARIABLES	13.0\"/>			
VARIABLES	18.5\"/>			

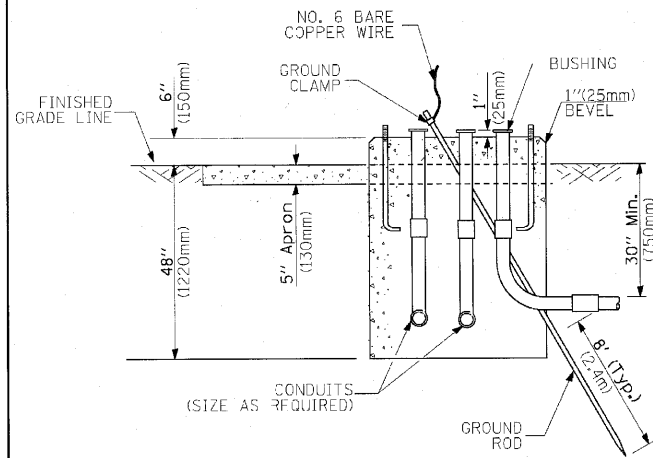
- NOTES:**
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
  - THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
  - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



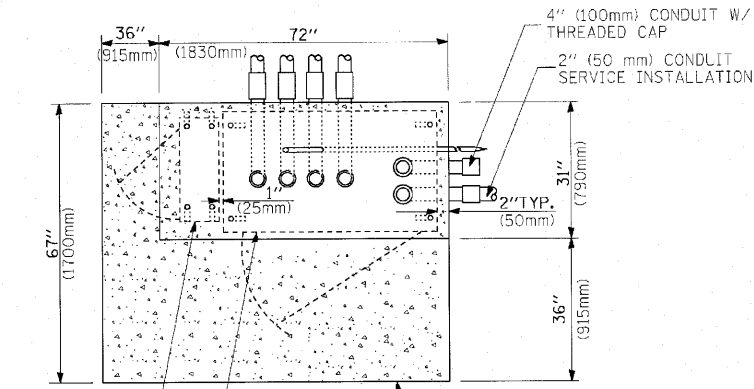
- NOTES:**
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
  - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.



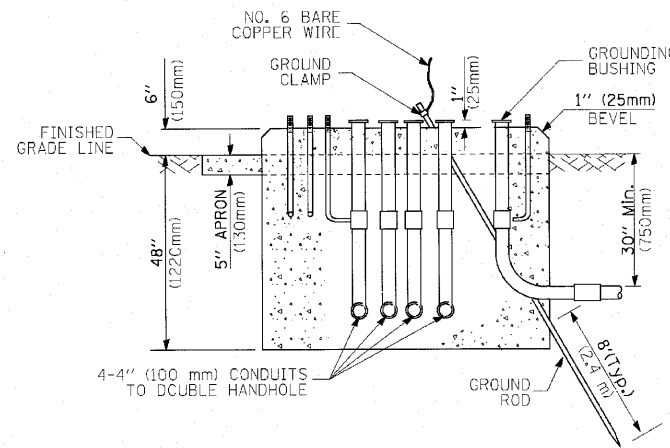
TOP VIEW



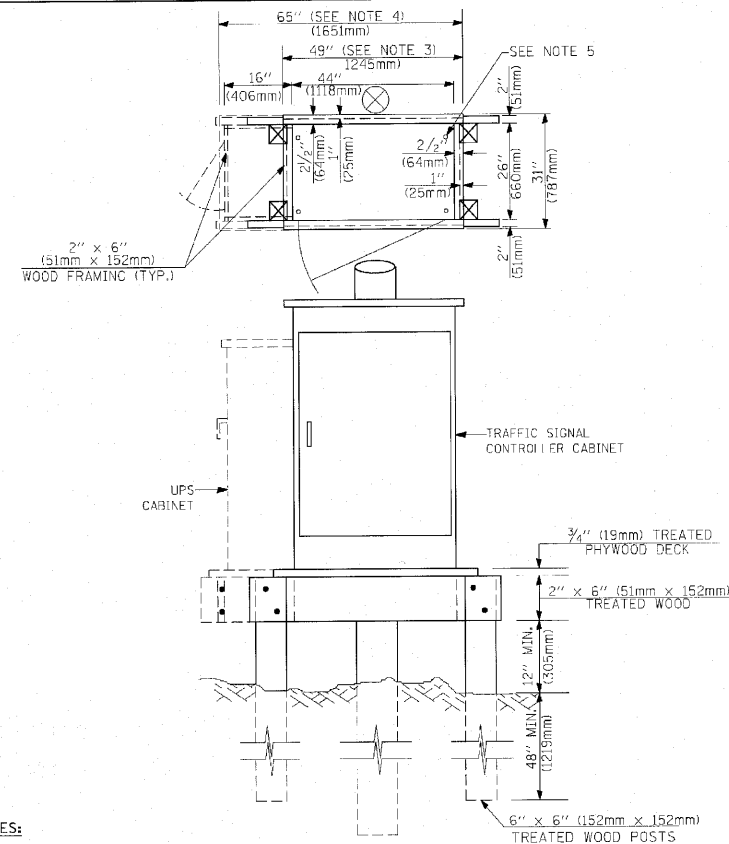
TYPE D FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET



TOP VIEW



TYPE C FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)	20.0+L	6.0+L
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)		
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME = 102589METR01-4.DWG

USER NAME =	DESIGNED -- RJD	REVISED --
FILE NAME =	DRAWN -- EC	REVISED --
PLOT SCALE =	CHECKED -- RJD	REVISED --
PLOT DATE =	DATE -- 01/19/10	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

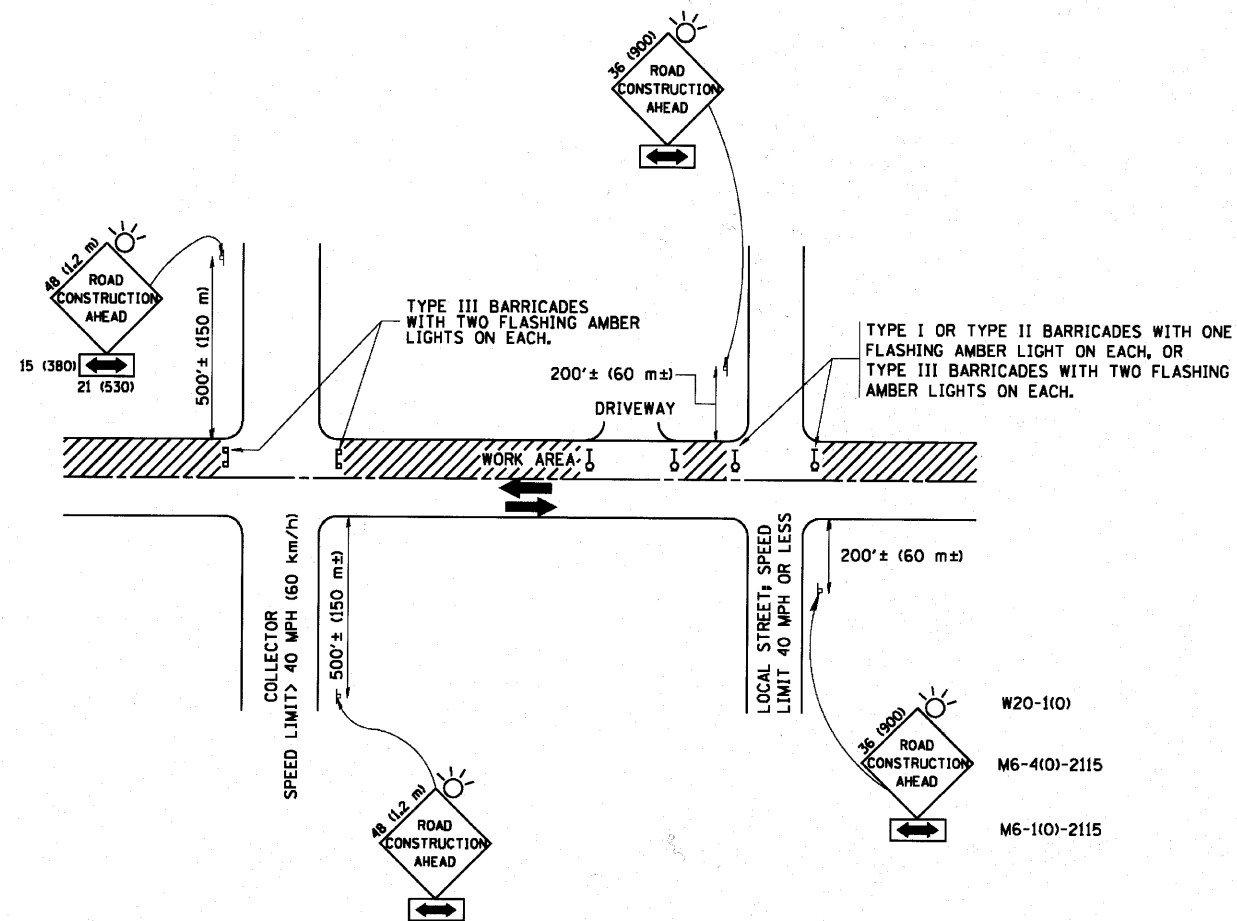
DISTRICT ONE STANDARDS  
TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.T.S. SHEET NO. 35 OF 75 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	35
CONTRACT NO. 63467				
ILLINOIS FED. AID PROJECT				

# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
GUY WIRE				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				SIGNAL FACE				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				EXISTING PERFORMED INTERSECTION LOOP DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PERFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				PERFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				<b>RAILROAD SYMBOLS</b>			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				RADIO INTERCONNECT				EXISTING			PROPOSED
ILLUMINATED SIGN "NO LEFT TURN"				RADIO REPEATER				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO RIGHT TURN"				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				RAILROAD CANTILEVER MAST ARM			
DETECTOR LOOP, TYPE I				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				FLASHING SIGNAL			
PERFORMED DETECTOR LOOP								CROSSING GATE			
MICROWAVE VEHICLE SENSOR								CROSSBUCK			
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											



**TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

**NOTES:**

**A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

**B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

**C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**

**D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

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

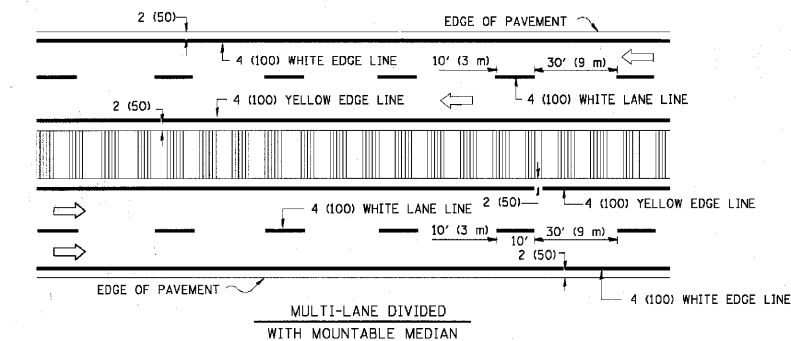
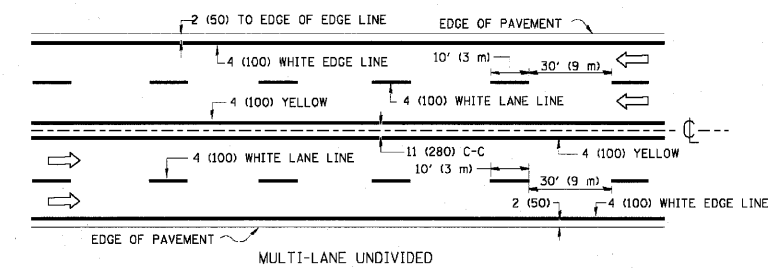
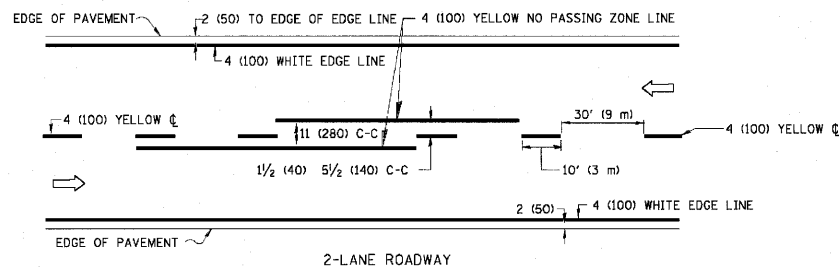
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	PLOT DATE =	DATE -- 6-89	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TRAFFIC CONTROL AND PROTECTION FOR  
SIDEROADS, INTERSECTIONS AND DRIVEWAYS**

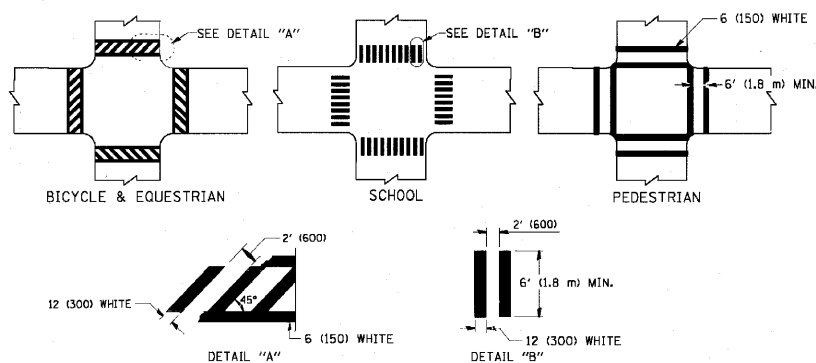
SCALE: N.T.S. SHEET NO. 37 OF 75 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	37
				CONTRACT NO. 63467
ILLINOIS FED. AID PROJECT				

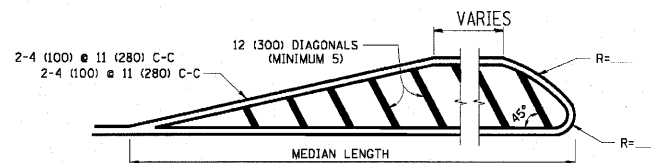
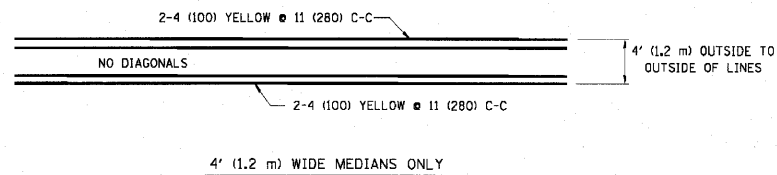


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

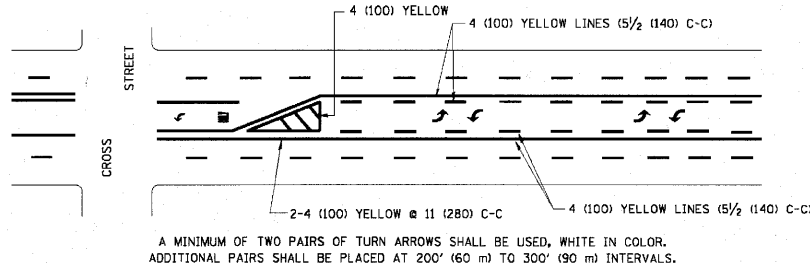


TYPICAL CROSSWALK MARKING

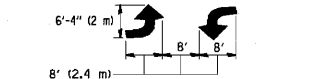


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

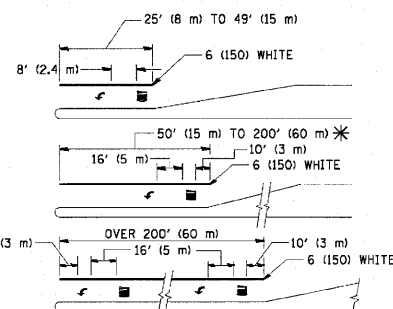


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

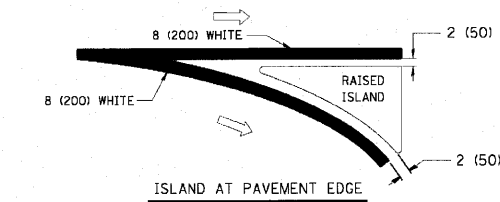
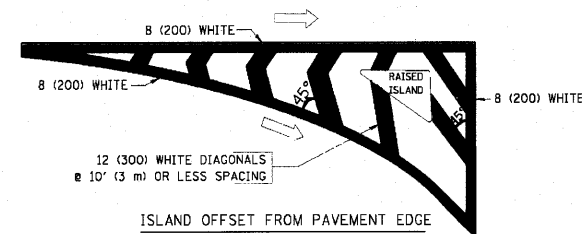
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 6" (1.5 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100)	SKIP-DASH	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
LANE LINES	5 (125) ON FREEWAYS	SKIP-DASH	WHITE	
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
TWO WAY LEFT TURN MARKING	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN)	2 @ 6 (150)	SOLID	WHITE	NOT LESS THAN 6' (1.8 m) APART
CROSSWALK LINES (BIKE & EQUESTRIAN)	12 (300) @ 45°	SOLID	WHITE	2' (600) APART
CROSSWALK LINES (LONGITUDINAL BARS (SCHOOL))	12 (300) @ 90°	SOLID	WHITE	SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
PAINTED MEDIANS	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS			
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

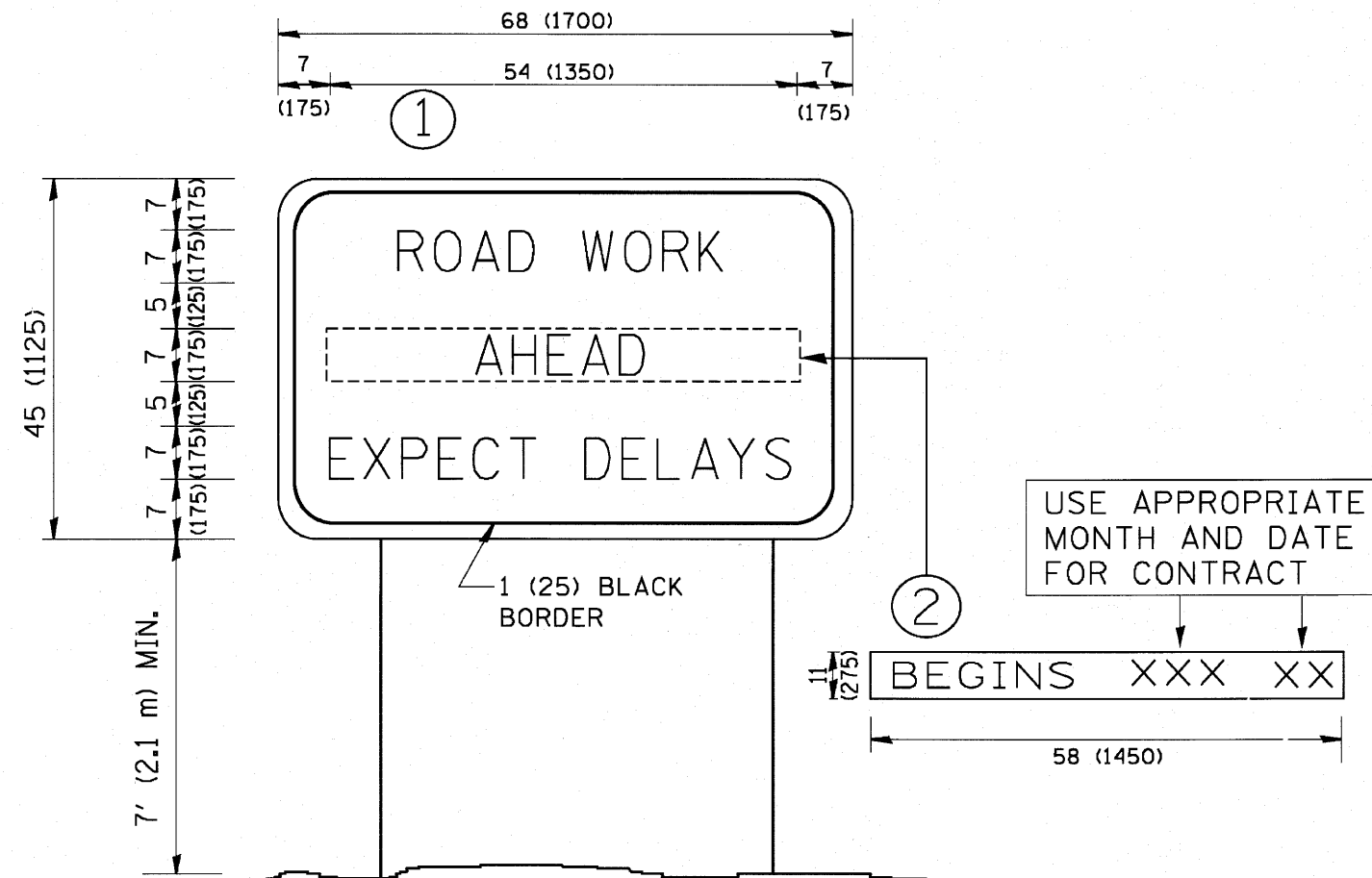
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
TYPICAL PAVEMENT MARKING

SCALE: N.T.S. SHEET NO. 38 OF 75 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	38
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	

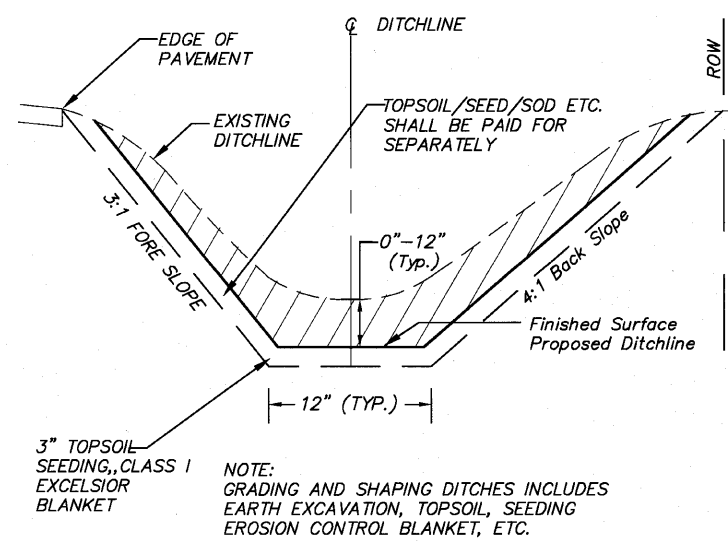


**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

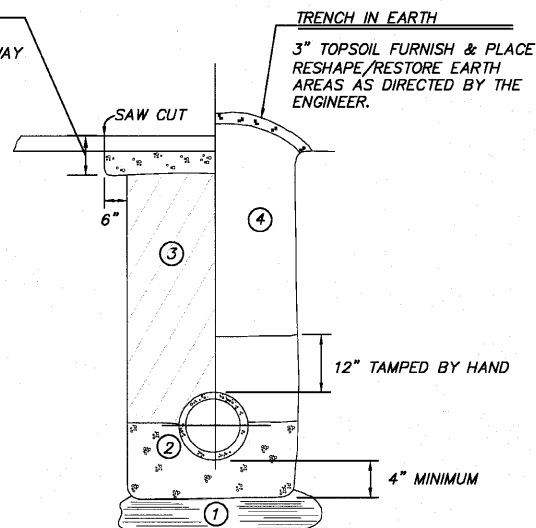
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UNLESS OTHERWISE SHOWN.

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				SCALE: N.T.S. SHEET NO. 39 OF 75 SHEETS						



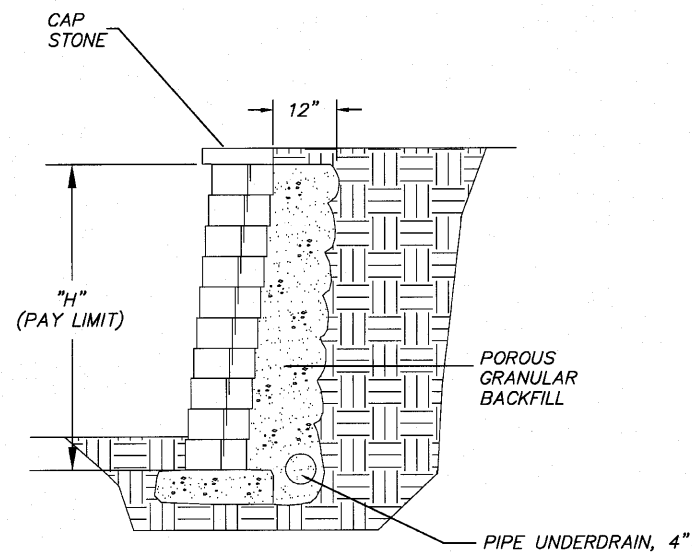
**TYPICAL SECTION -  
GRADING AND SHAPING DITCHES**

**TRENCH IN PAVEMENT**  
SEE SHEET 3 FOR PAVEMENT  
SECTION ADJACENT TO DRIVEWAY



- ① UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED WITH POROUS GRANULAR EMBANKMENT AS DIRECTED BY THE ENGINEER
- ② SELECTED GRANULAR BEDDING (CA 11, CRUSHED)
- ③ TRENCH BACKFILL (FA-2, FA-6)
- ④ APPROVED EXCAVATED MATERIAL

**TYPICAL TRENCH DETAIL**  
NOT TO SCALE



NOTE: SEE SPECIAL PROVISIONS FOR MORE INFORMATION

**SEGMENTAL BLOCK WALL DETAIL**  
NOT TO SCALE

FILE NAME = 10258903.DWG

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FILE NAME =	DRAWN - EC	REVISED -
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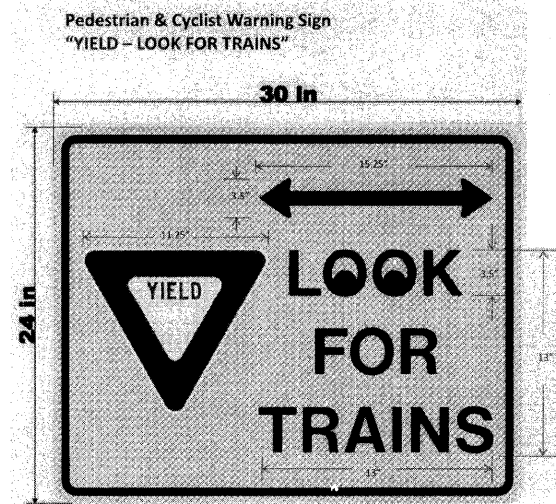
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SPECIAL DETAILS**

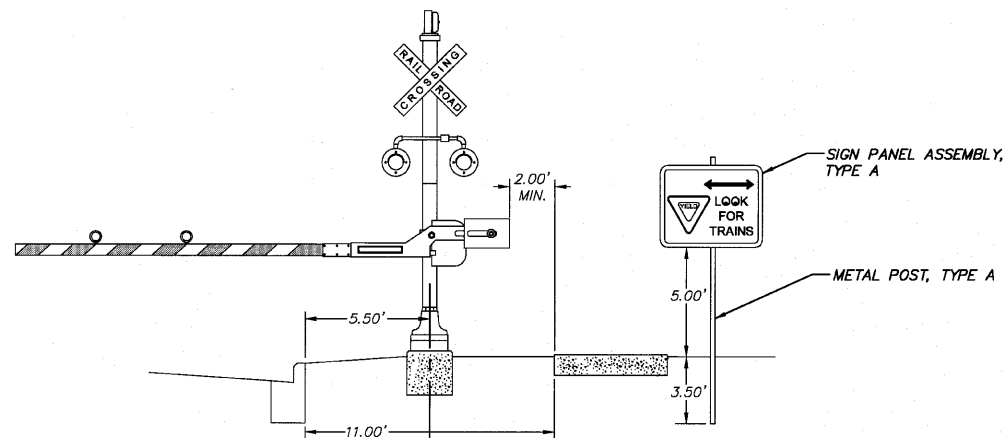
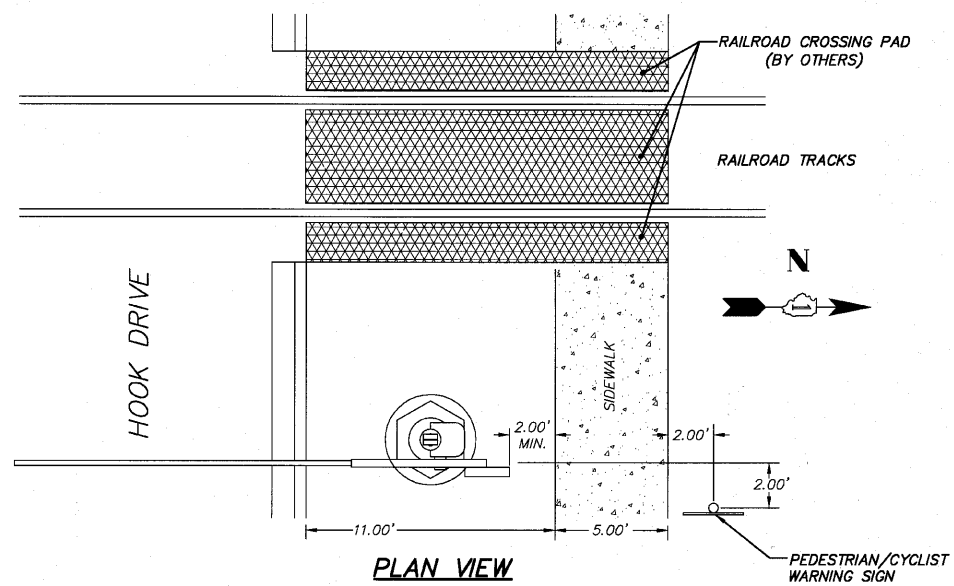
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	40
CONTRACT NO. 63467				
ILLINOIS FED. AID PROJECT				



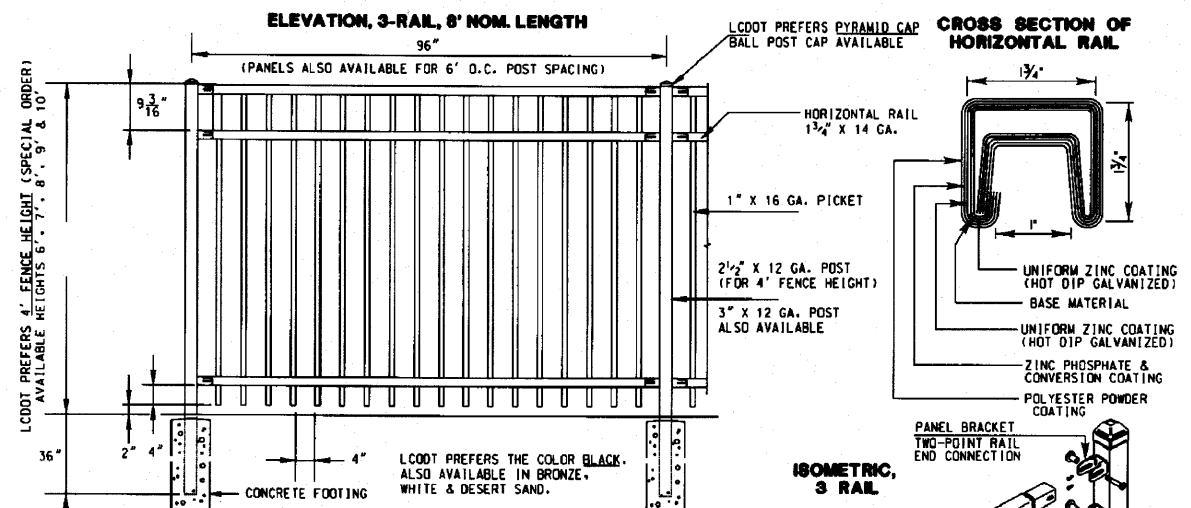


PEDESTRIAN & CYCLIST WARNING SIGN DETAIL



NOTE: TYPICAL EACH SIDE OF RAILROAD CROSSING

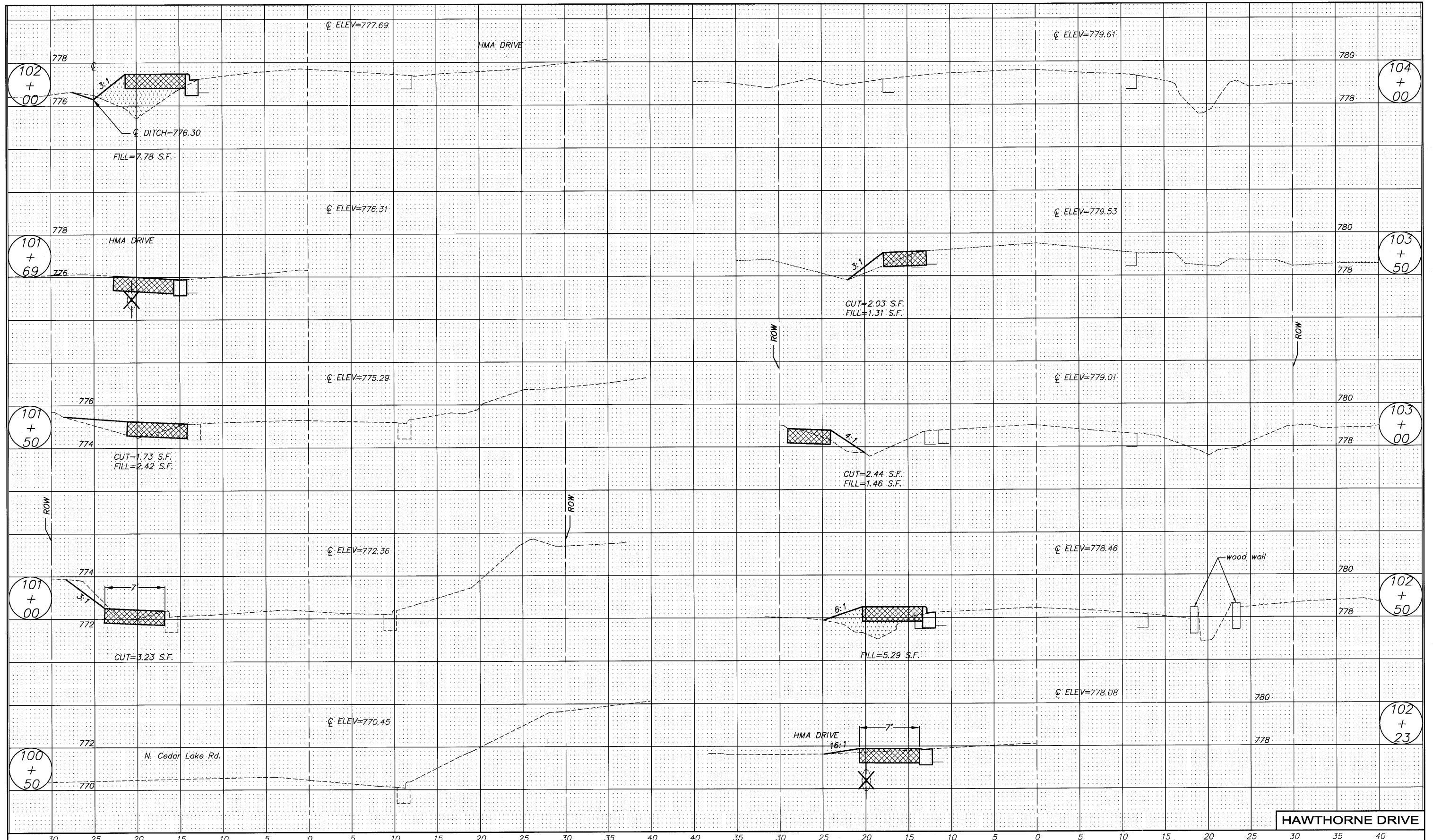
RAILROAD CROSSING DETAIL (LOOKING WEST)



Post Selection for Fence Height 6' - 10'

Wind Loading				
Fence Height (FT)	Rail Length (FT)	Post Size	Wind Load Capacity Factor (PSF)	Typical Wind Load Capacity (mph)
6	6	2 1/2" x 12 GA.	45.5	133.0
	8	3" x 12 GA.	54.6	146.0
	8	2 1/2" x 12 GA.	34.2	118.0
7	6	2 1/2" x 12 GA.	41.0	127.0
	8	3" x 12 GA.	33.4	114.0
	8	2 1/2" x 12 GA.	40.0	125.0
8	6	2 1/2" x 12 GA.	25.0	99.0
	8	3" x 12 GA.	30.0	108.0
	8	2 1/2" x 12 GA.	25.8	100.0
9	6	3" x 12 GA.	30.7	110.0
	8	2 1/2" x 12 GA.	18.2	87.0
	8	3" x 12 GA.	23.0	96.0
10	6	4" x 12 GA.	30.6	110.0
	6	4" x 12 GA.	32.0	113.0
10	6	4" x 12 GA.	28.7	107.0

ORNAMENTAL FENCE DETAIL



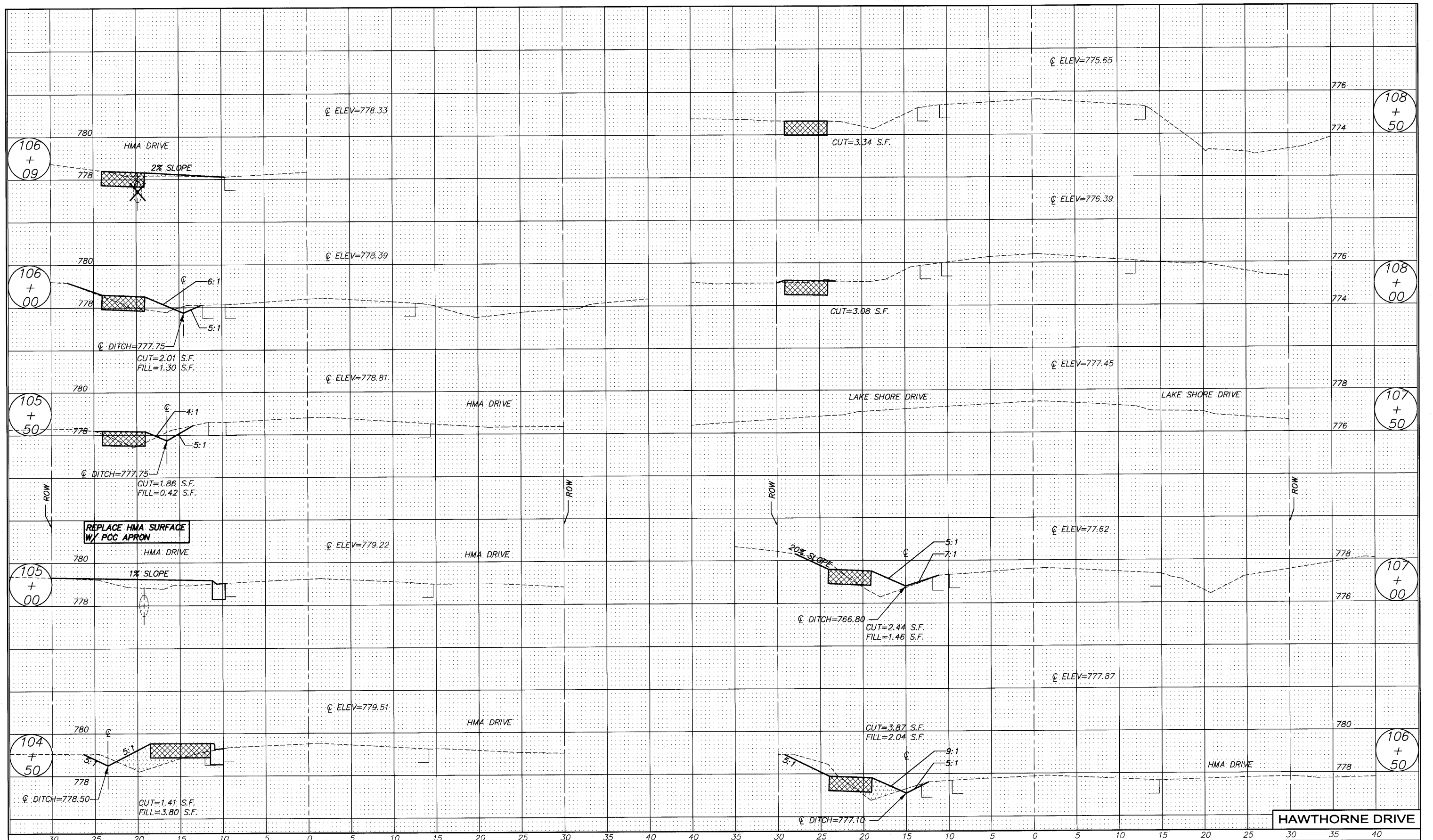
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CROSS SECTION - HAWTHORNE DRIVE**

SCALE: 1"=5'    SHEET NO. 42 OF 75 SHEETS    STA. 100+50    TO STA. 104+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	10-00073-00-SW	LAKE	75	42
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



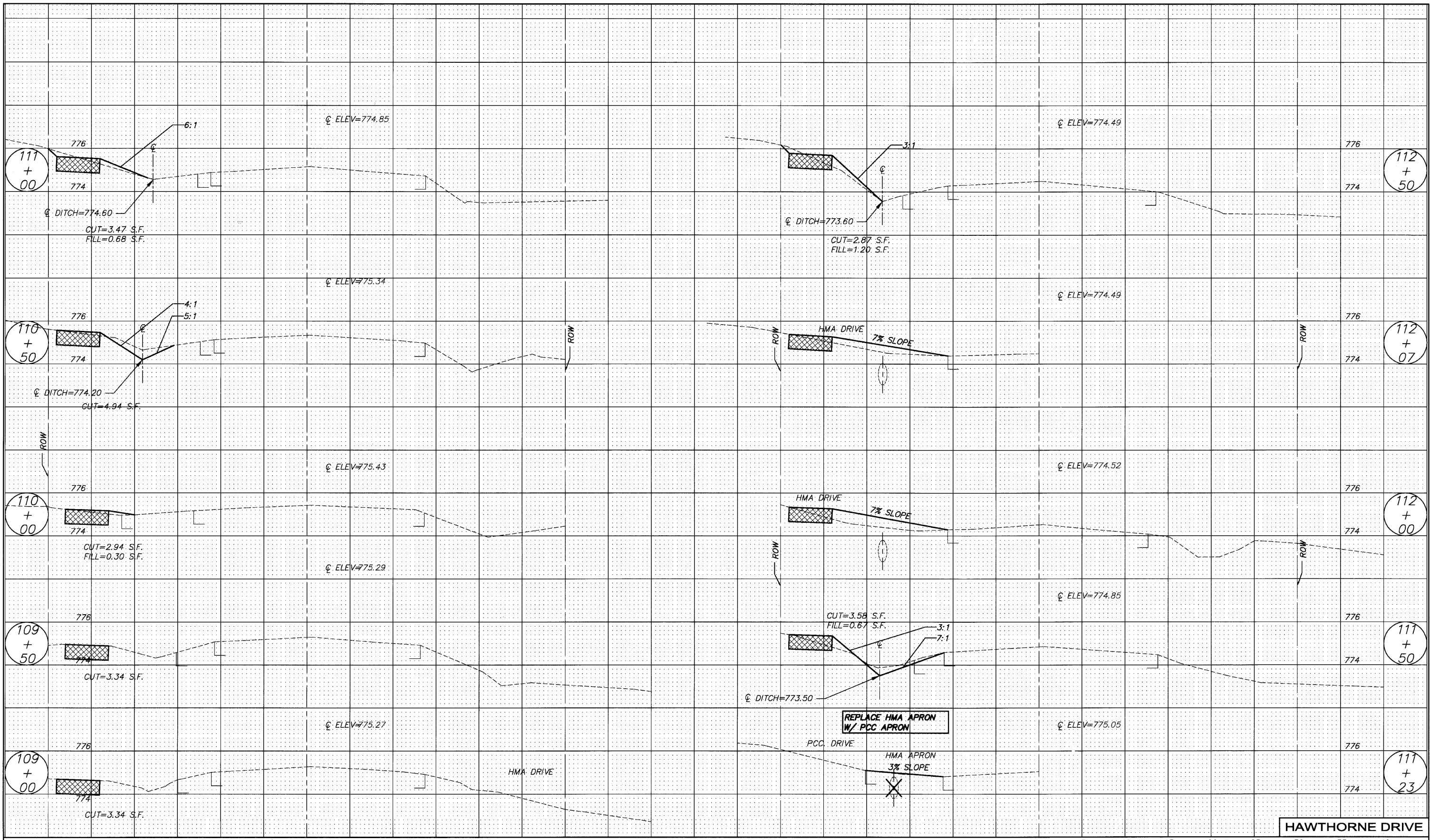
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - HAWTHORNE DRIVE**

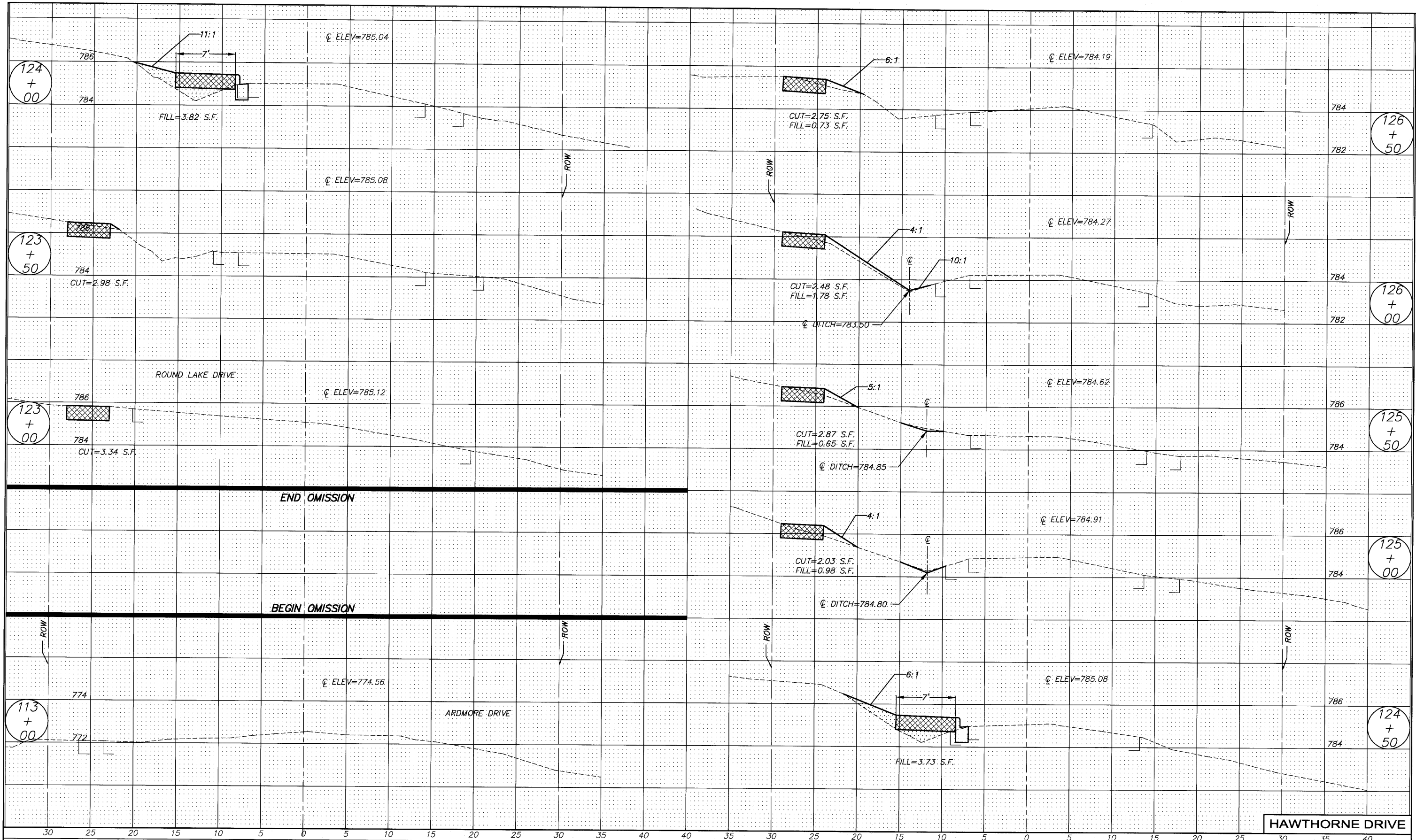
SCALE: 1"=5'    SHEET NO. 43 OF 75 SHEETS    STA. 104+50    TO STA. 108+50

F.A.U. RTE. 184	SECTION 10-00073-00-SW	COUNTY LAKE	TOTAL SHEETS 75	SHEET NO. 43
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63467	

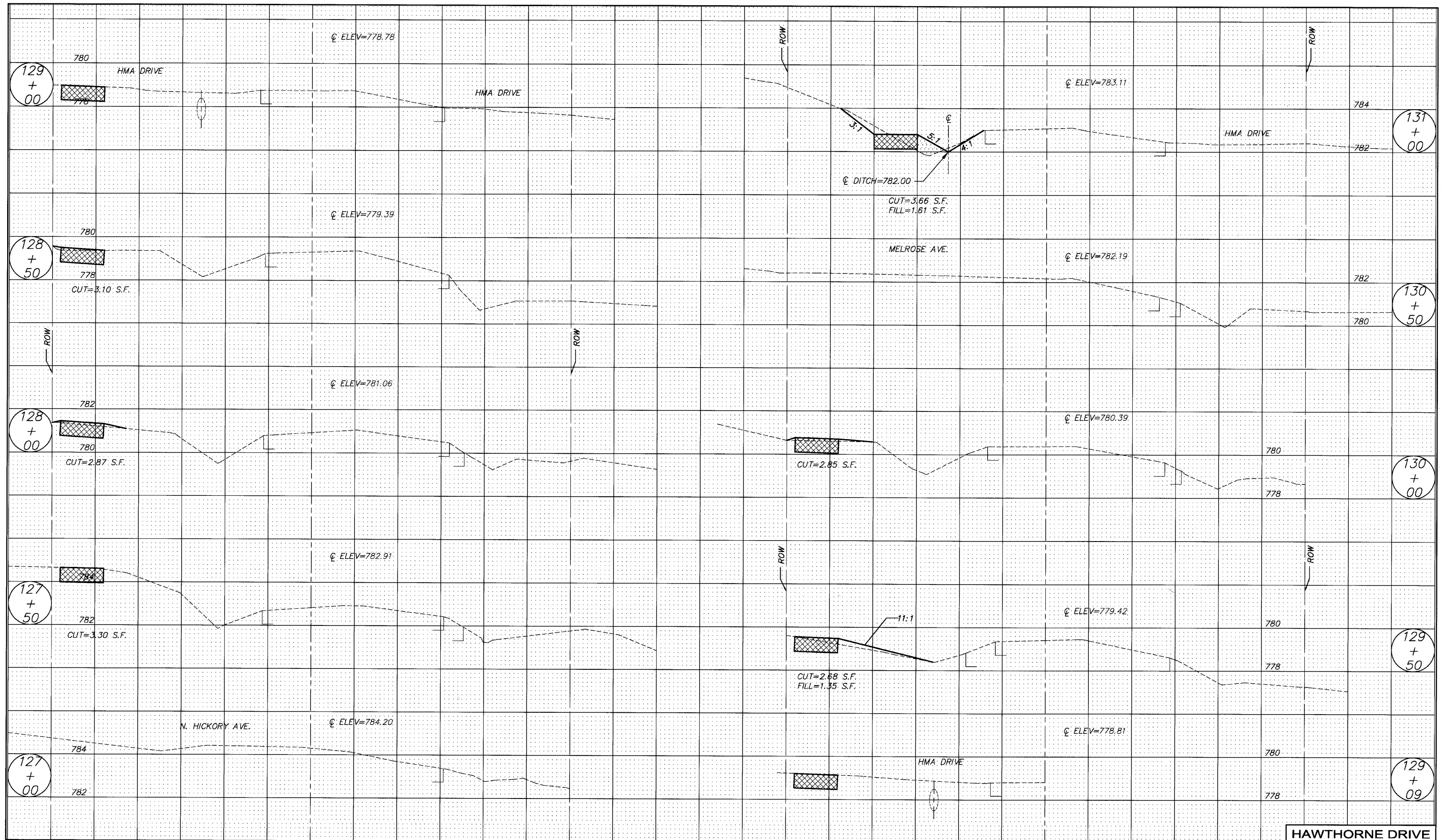


HAWTHORNE DRIVE

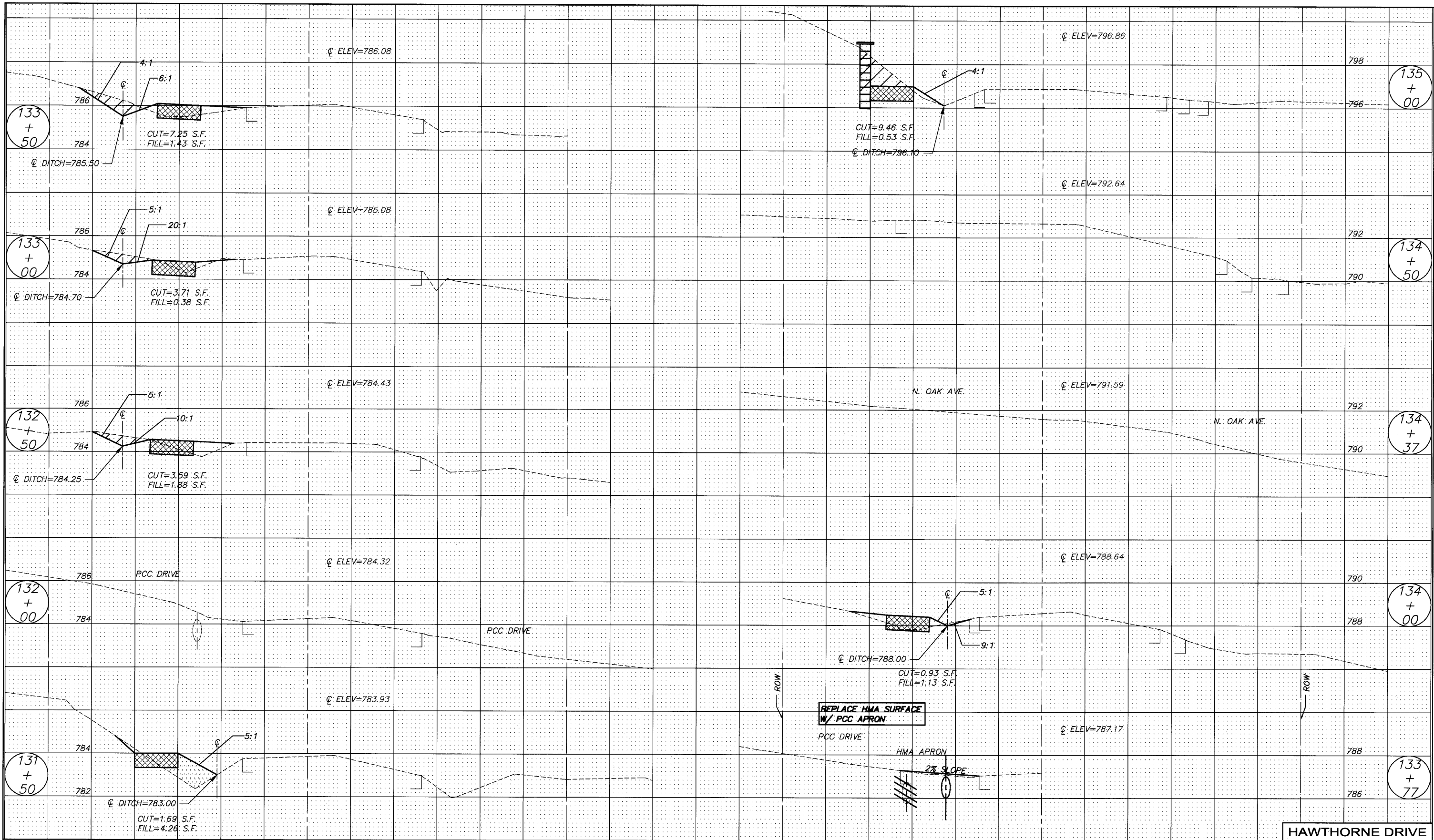
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PLOT DATE =	DATE - 01/19/10	REVISED -											



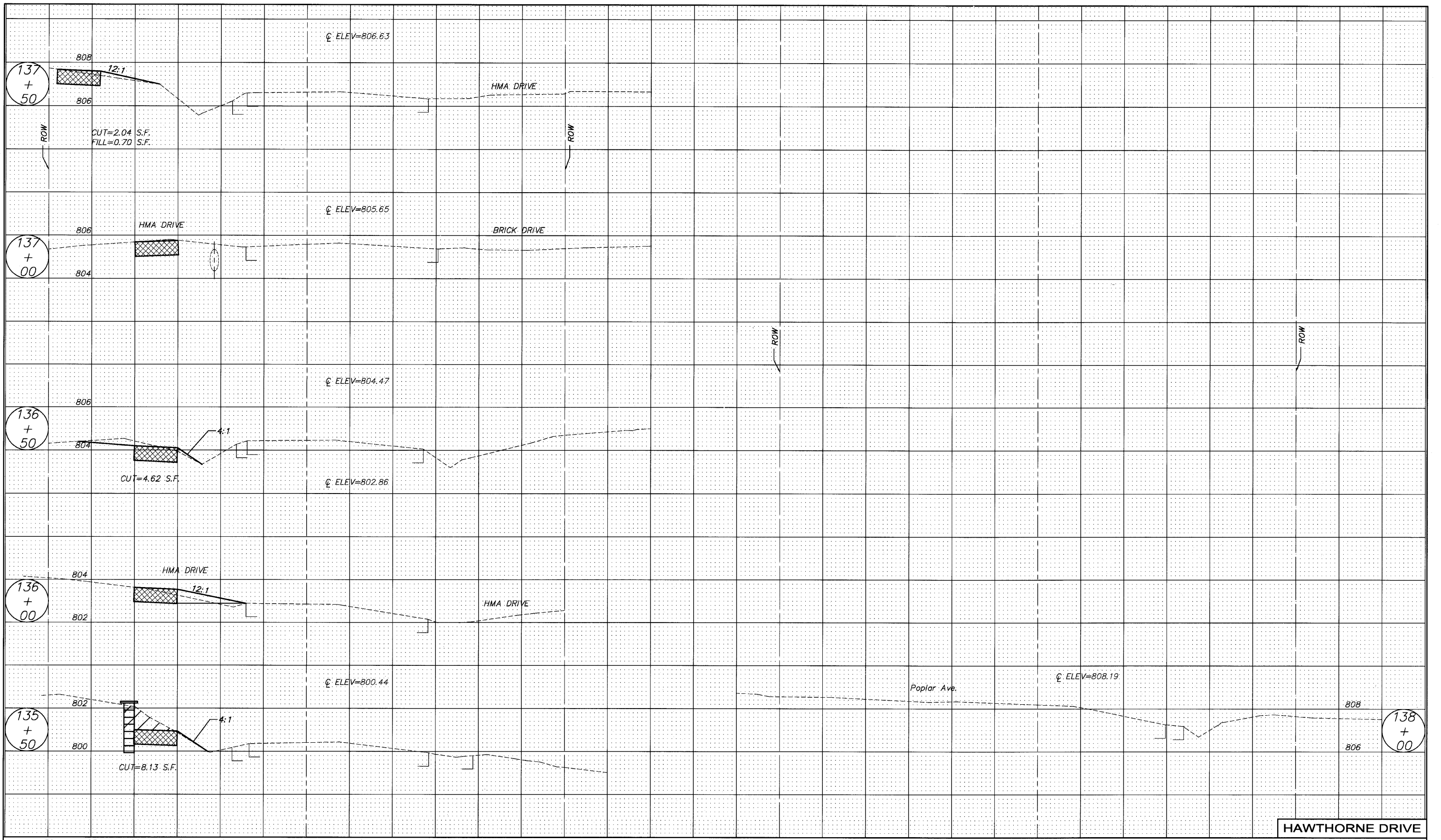
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PLOT SCALE =	FILE NAME =	CHECKED - RJD	REVISED -		SCALE: 1"=5'    SHEET NO. 45 OF 75 SHEETS    STA. 113+00    TO STA. 126+50				CONTRACT NO. 63467				
PLOT DATE =	FILE NAME =	DATE - 01/19/10	REVISED -		ILLINOIS FED. AID PROJECT								



FILE NAME = 102589HAWTHORN.XD5.DWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - HAWTHORNE DRIVE	F.A.U. RTE. 184	SECTION 10-00073-00-SW	COUNTY LAKE	TOTAL SHEETS 75	SHEET NO. 46		
FILE NAME =	DRAWN - EC	REVISED -	SCALE: 1"=5'			SHEET NO. 46 OF 75 SHEETS	STA. 127+00	TO STA. 131+00	CONTRACT NO. 63467			
PLOT SCALE =	CHECKED - RJD	REVISED -	ILLINOIS FED. AID PROJECT									
PLOT DATE =	DATE - 01/19/10	REVISED -										



FILE NAME = 102589HAWTHORNDWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - HAWTHORNE DRIVE		F.A.U. RTE. 184	SECTION 10-00073-00-SW	COUNTY LAKE	TOTAL SHEETS 75	SHEET NO. 47	
FILE NAME =	DRAWN - EC	REVISED -	REVISED -		SCALE: 1"=5'	SHEET NO. 47 OF 75 SHEETS	STA. 131+50	TO STA. 135+00	CONTRACT NO. 63467			
PLOT SCALE =	CHECKED - RJD	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE =	DATE - 01/19/10	REVISED -	REVISED -									



**HAWTHORNE DRIVE**

FILE NAME = 102589HAWTHORNDWG	USER NAME =	DESIGNED - RJD	REVISED -
FILE NAME =	FILE NAME =	DRAWN - EG	REVISED -
PLOT SCALE =	PLOT SCALE =	CHECKED - RJD	REVISED -
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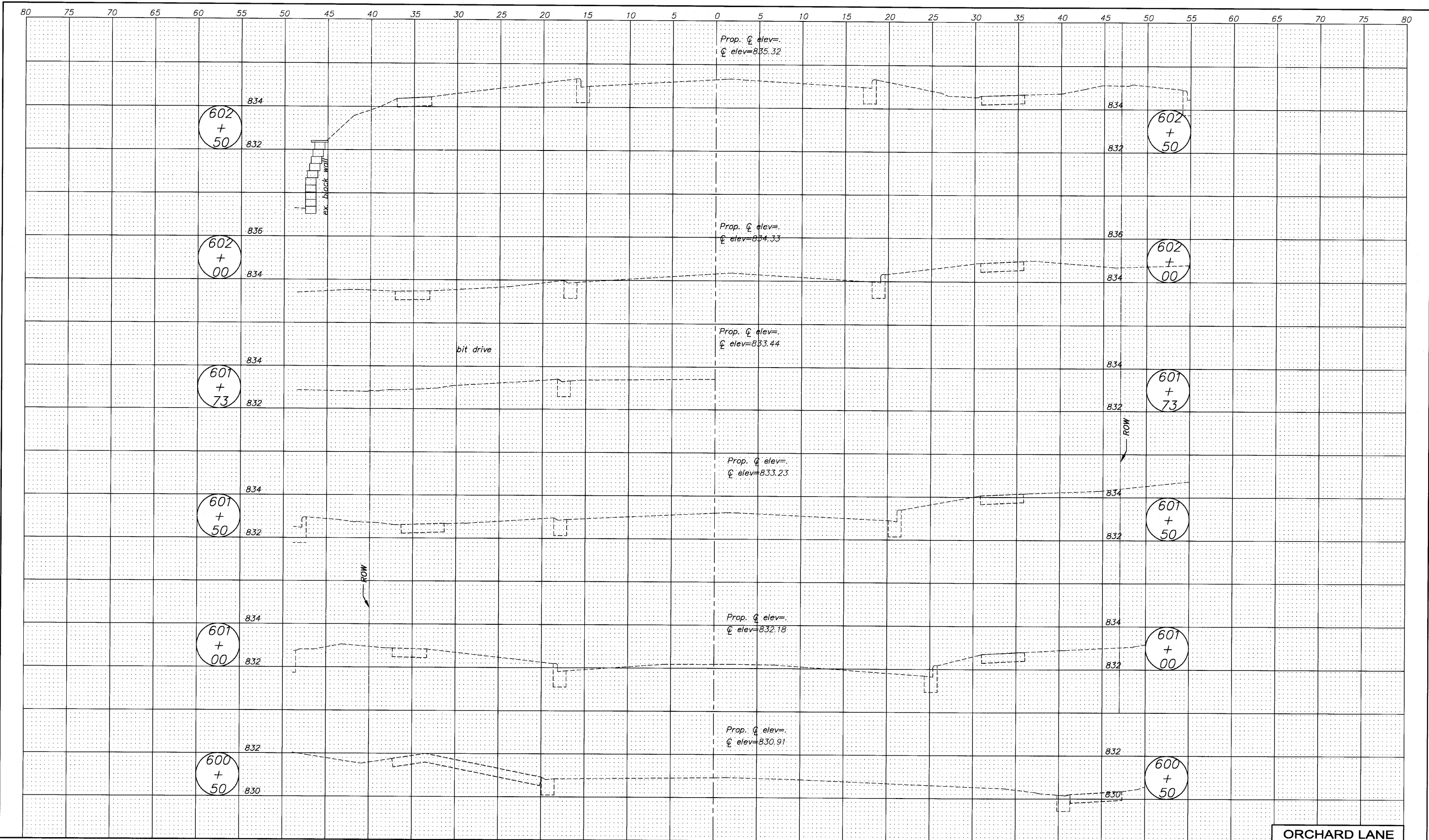
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - HAWTHORNE DRIVE**

SCALE: 1"=5'    SHEET NO. 48 OF 75 SHEETS    STA. 135+50    TO STA. 138+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	10-00073-00-SW	LAKE	75	48
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	

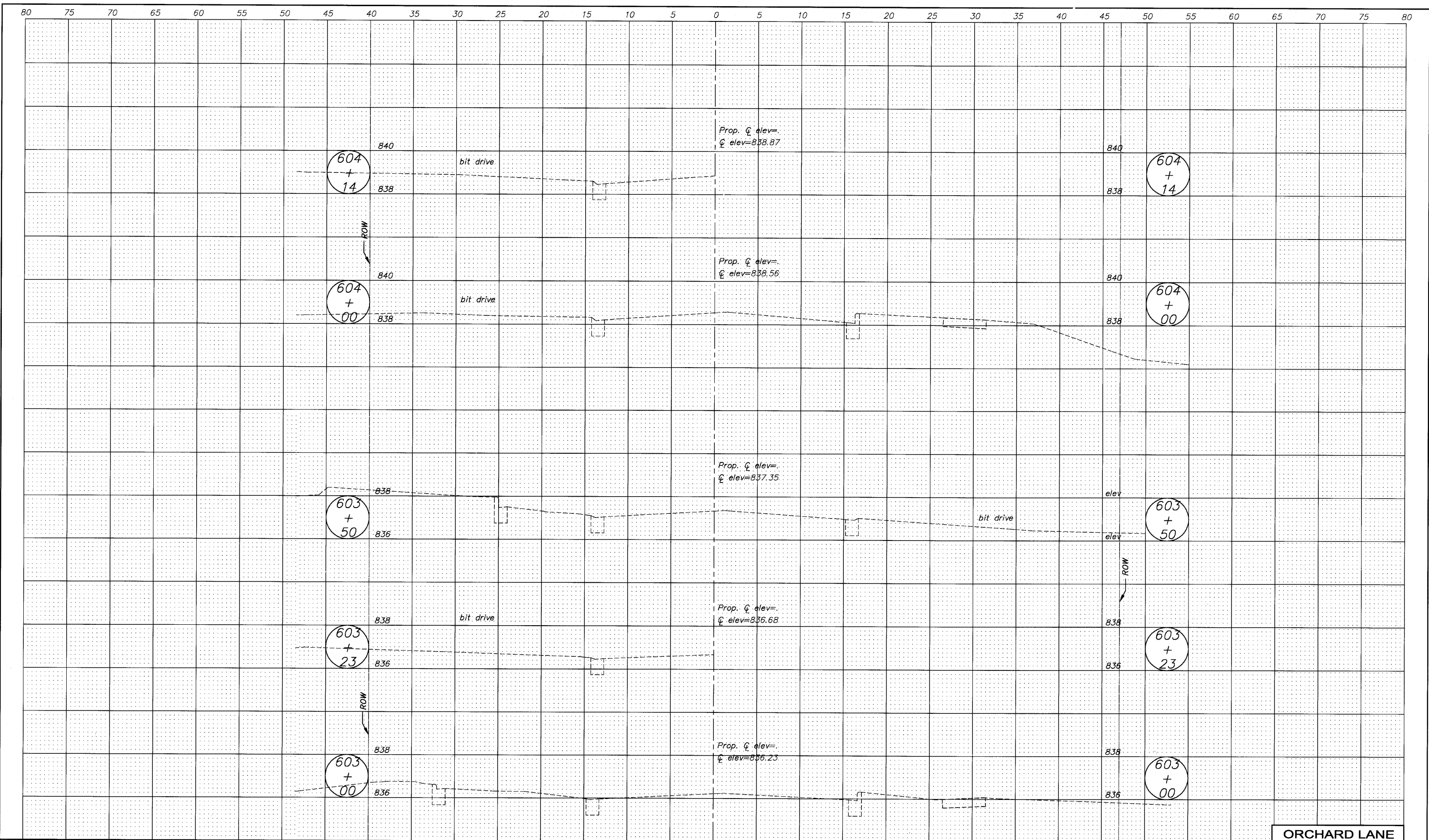




ORCHARD LANE

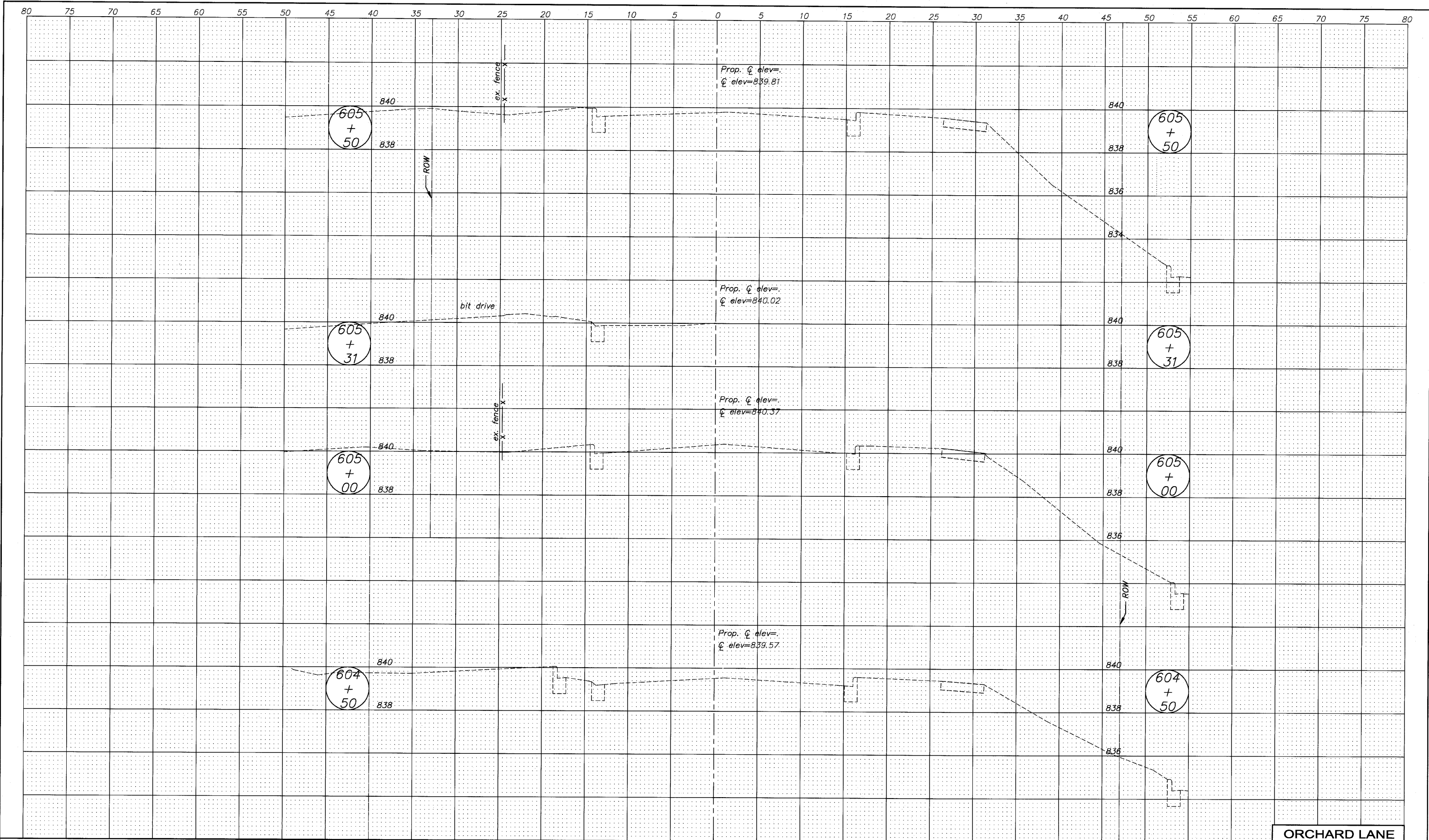
FILE NAME = 102589ORCHX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - ORCHARD LANE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE NAME =	DRAWN - EC	REVISED -	---			10-00073-00-SW	LAKE	75	49	
PLOT SCALE =	CHECKED - RJD	REVISED -	CONTRACT NO. 63467							
PLOT DATE =	DATE - 10/02/09	REVISED -	ILLINOIS FED. AID PROJECT							

SCALE: 1"=5' SHEET NO. 49 OF 75 SHEETS STA. 600+50 TO STA. 602+50



ORCHARD LANE

FILE NAME = 102589ORCHX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - ORCHARD LANE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	FILE NAME =	DRAWN - EC	REVISED -			---	10-00073-00-SW	LAKE	75	50	
	PLOT SCALE =	CHECKED - RJD	REVISED -			SCALE: 1"=5'		SHEET NO. 50 OF 75 SHEETS		STA. 603+00 TO STA. 604+14	
	PLOT DATE =	DATE - 10/02/09	REVISED -			CONTRACT NO. 63467 ILLINOIS FED. AID PROJECT					



ORCHARD LANE

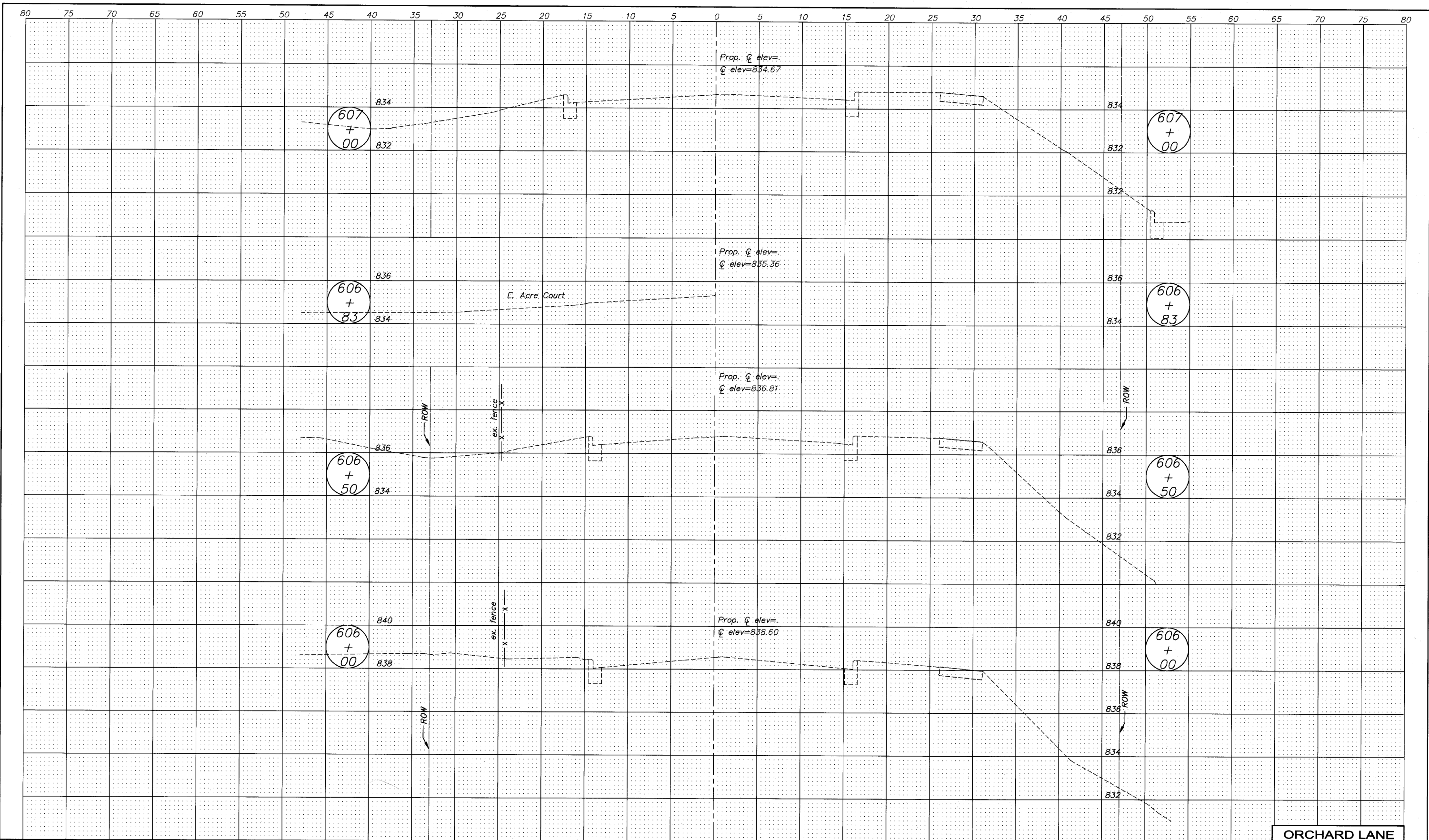
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	FILE NAME =	DRAWN - EC	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - ORCHARD LANE

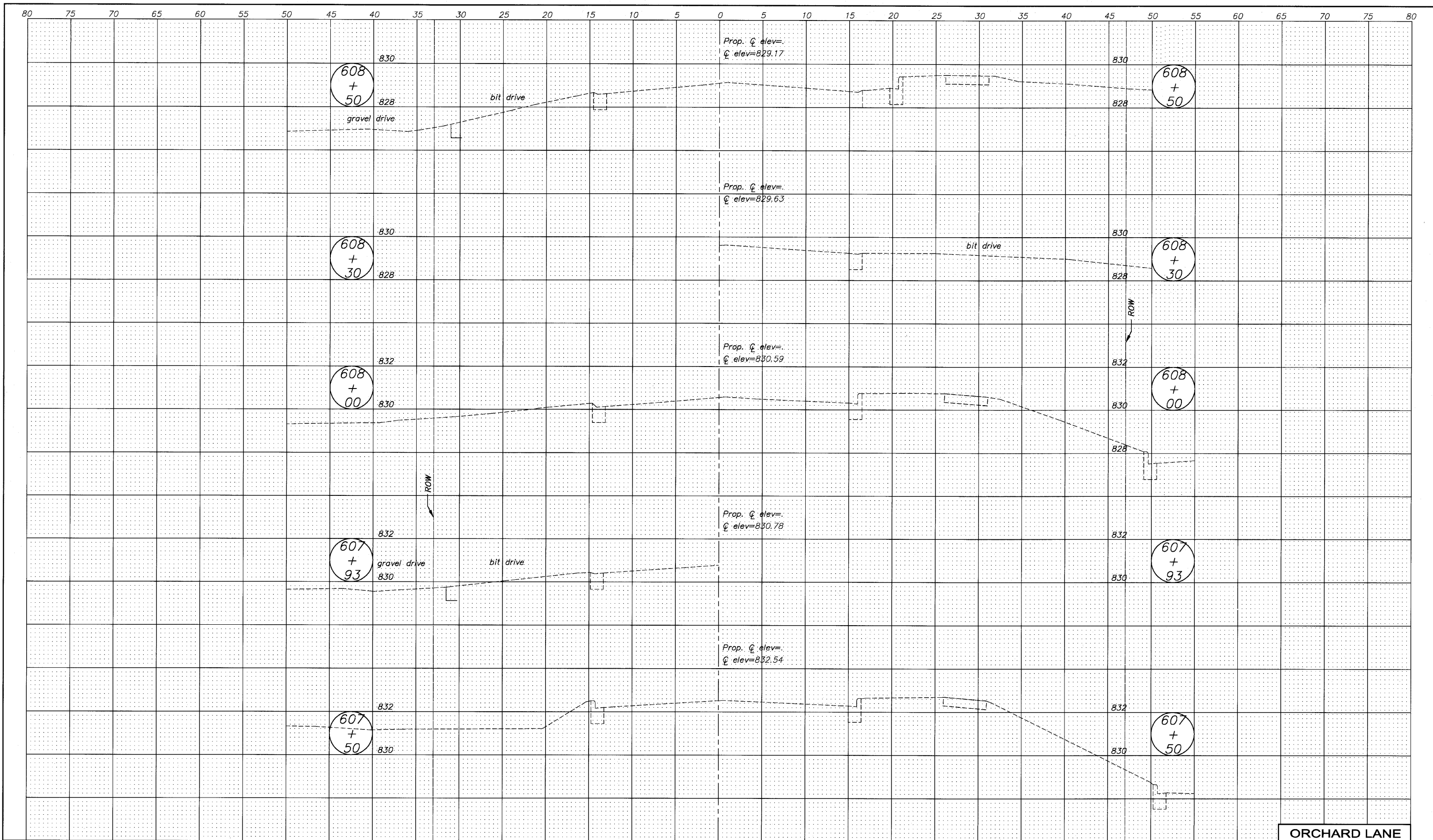
SCALE: 1"=5' SHEET NO. 51 OF 75 SHEETS STA. 604+50 TO STA. 605+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	51
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



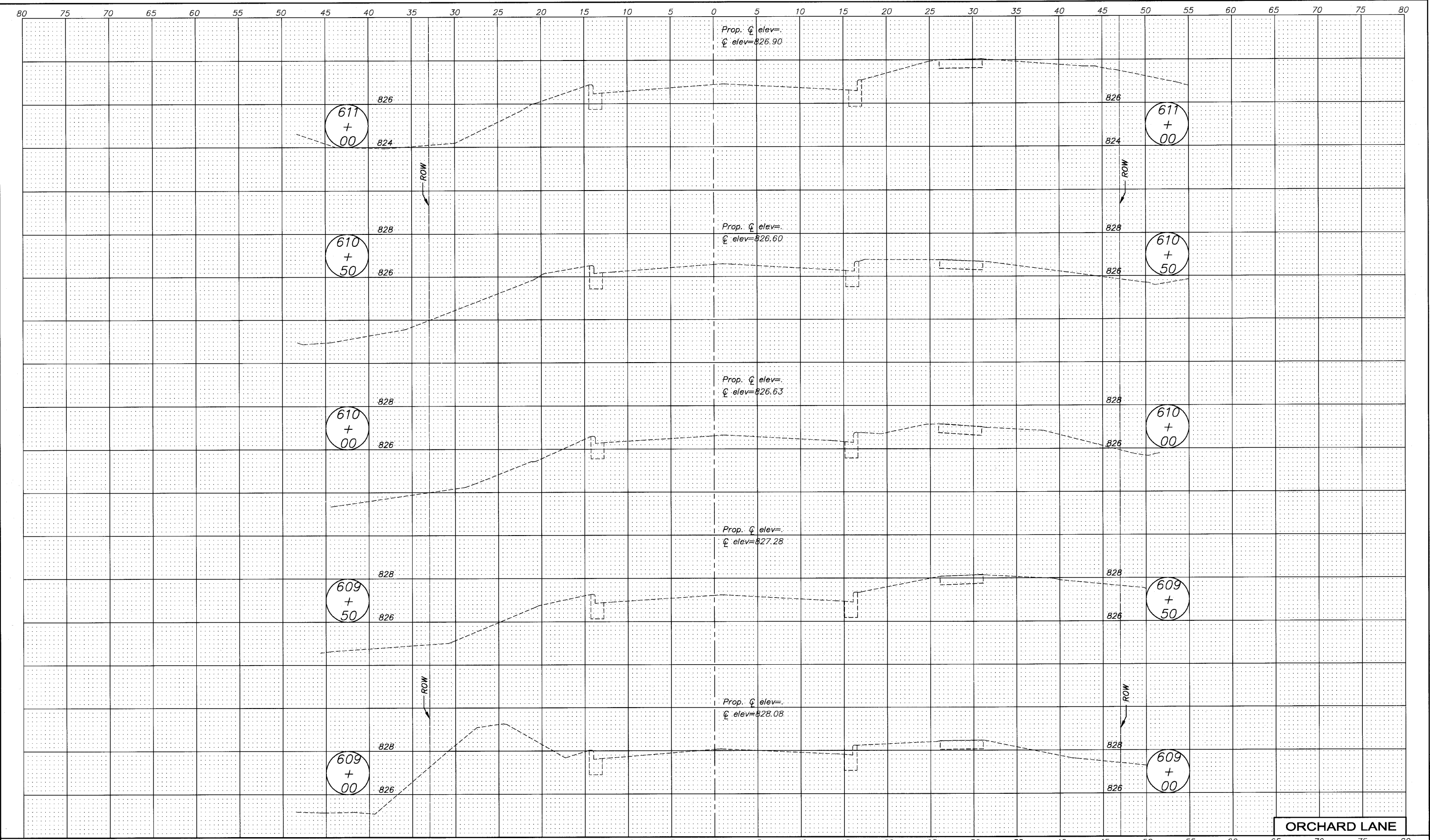
ORCHARD LANE

FILE NAME = 102589ORCHX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - ORCHARD LANE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	FILE NAME =	DRAWN - EC	REVISED -			---	10-00073-00-SW	LAKE	75	52	
	PLOT SCALE =	CHECKED - RJD	REVISED -			SCALE: 1"=5'		SHEET NO. 52 OF 75 SHEETS		STA. 606+00 TO STA. 607+00	
	PLOT DATE =	DATE - 10/02/09	REVISED -			CONTRACT NO. 63467 ILLINOIS FED. AID PROJECT					



ORCHARD LANE

FILE NAME = 102589ORCHX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - ORCHARD LANE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - EC	REVISED -		SCALE: 1"=5'	SHEET NO. 53 OF 75 SHEETS	STA. 607+50	TO STA. 608+50	10-00073-00-SW	LAKE	75	53
		CHECKED - RJD	REVISED -					CONTRACT NO. 63467				
		DATE - 10/02/09	REVISED -		ILLINOIS FED. AID PROJECT							



ORCHARD LANE

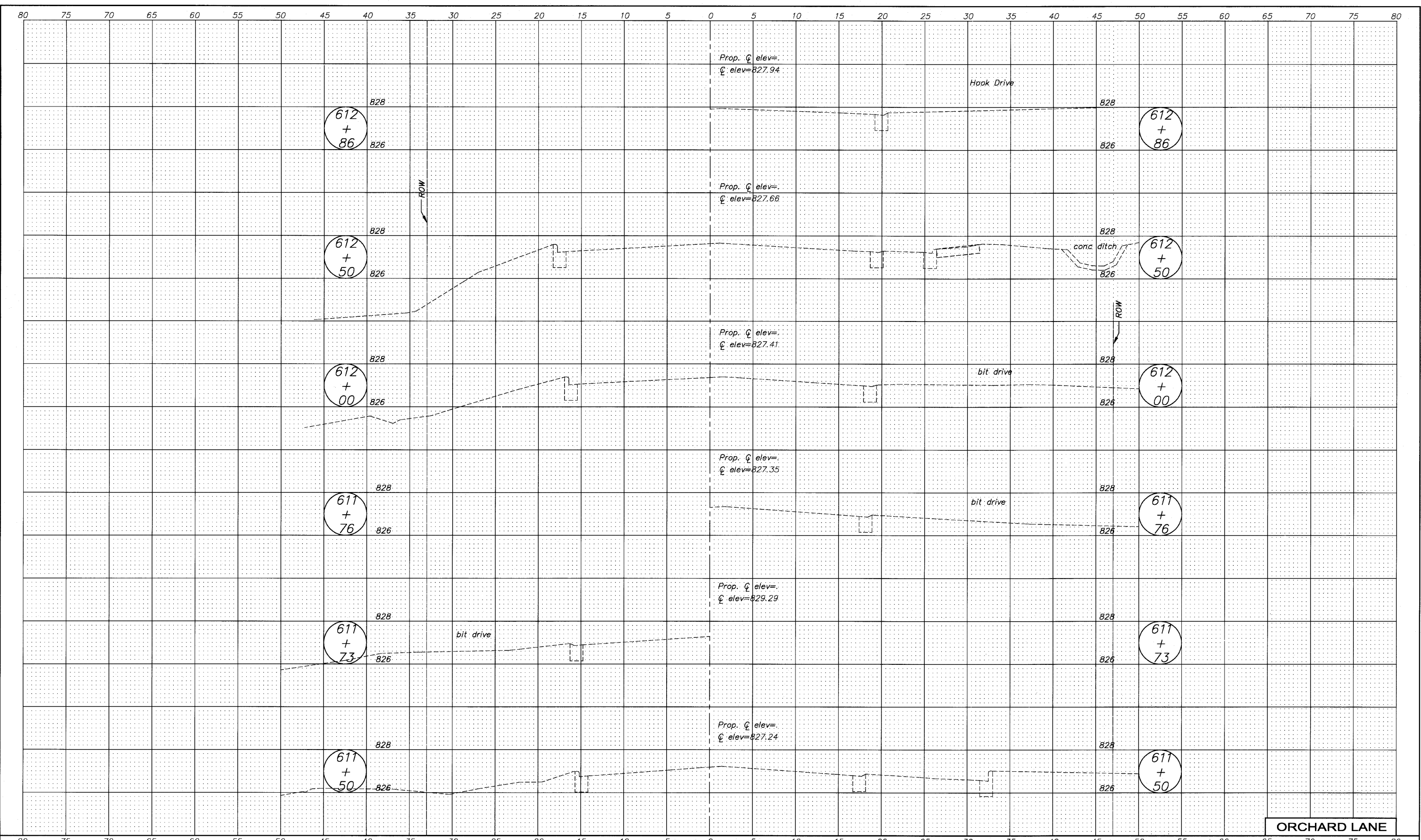
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	PLOT DATE =	DATE = 10/02/09	REVISED =

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - ORCHARD LANE**

SCALE: 1"=5'    SHEET NO. 54 OF 75 SHEETS    STA. 609+00    TO STA. 611+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	54
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



ORCHARD LANE

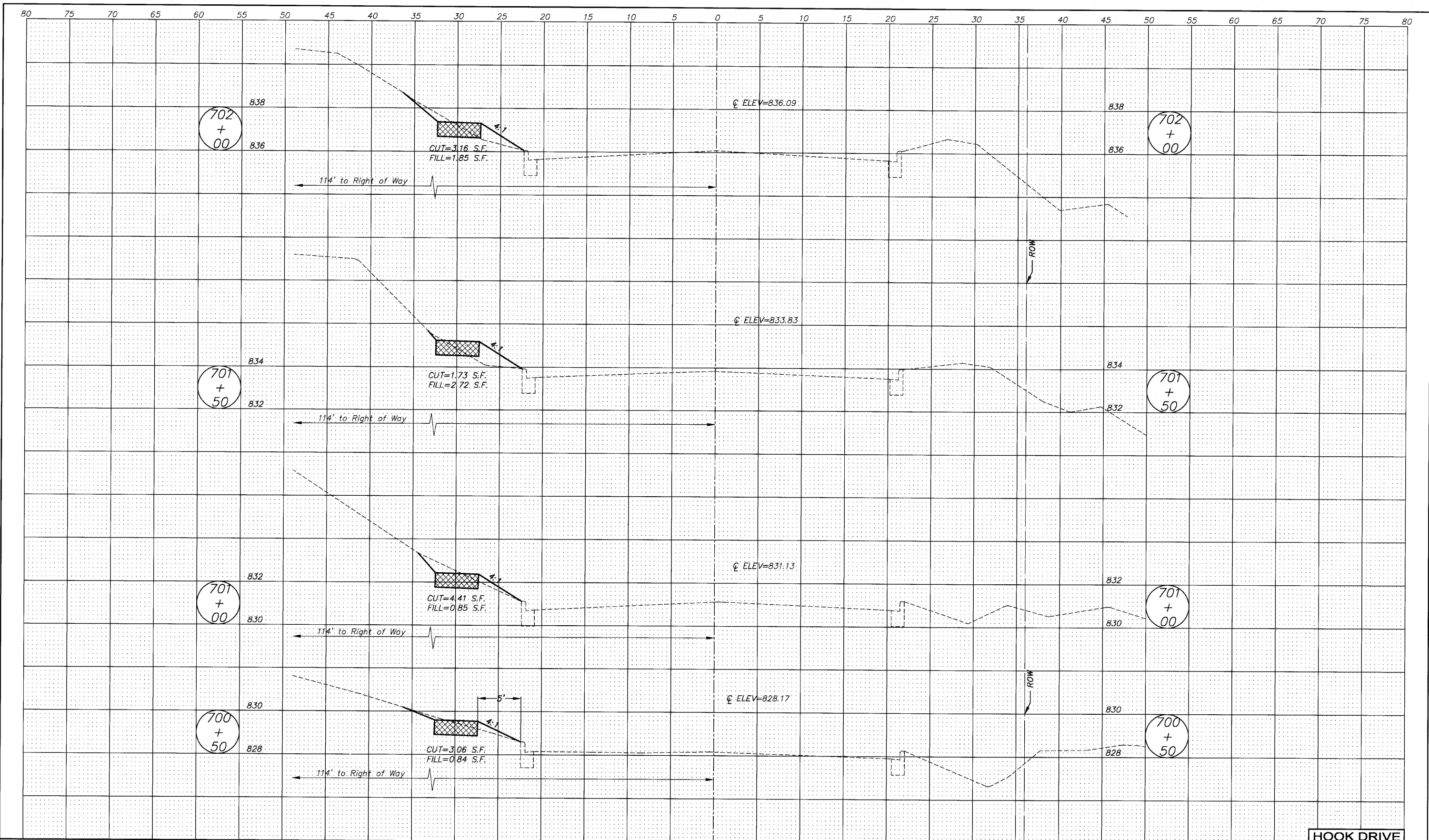
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		CHECKED - RJD	REVISED -
		DATE - 10/02/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - ORCHARD LANE**

SCALE: 1"=5'    SHEET NO. 55 OF 75 SHEETS    STA. 611+50    TO STA. 612+86

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	55
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



HOOK DRIVE

FILE NAME = 102589HOOKX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -
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	PLOT SCALE =	CHECKED - RJD	REVISED -
	PLOT DATE =	DATE - 01/19/10	REVISED -

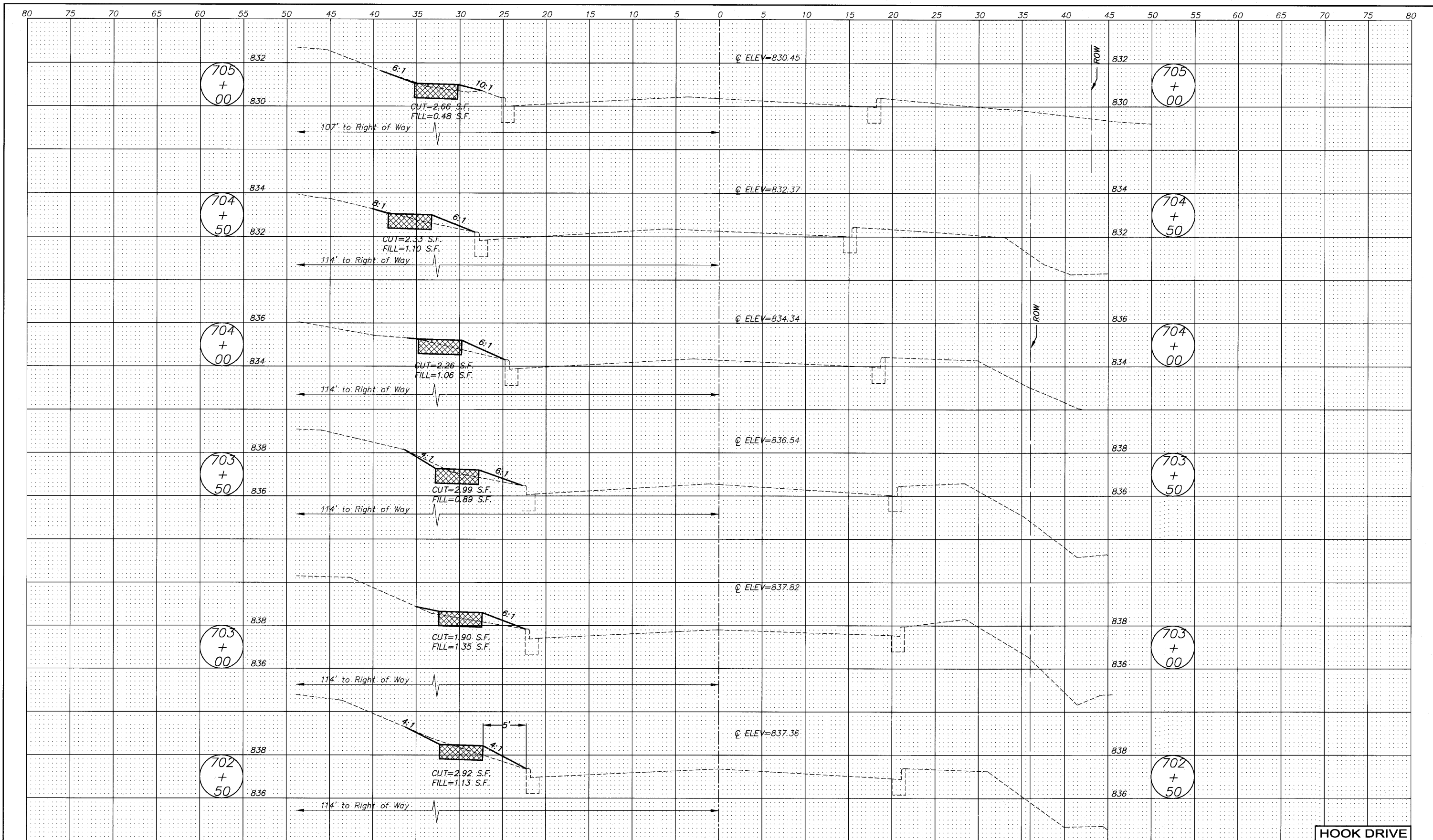
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE

SCALE: 1"=5' SHEET NO. 56 OF 75 SHEETS STA. 700+50 TO STA. 702+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	56
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	





HOOK DRIVE

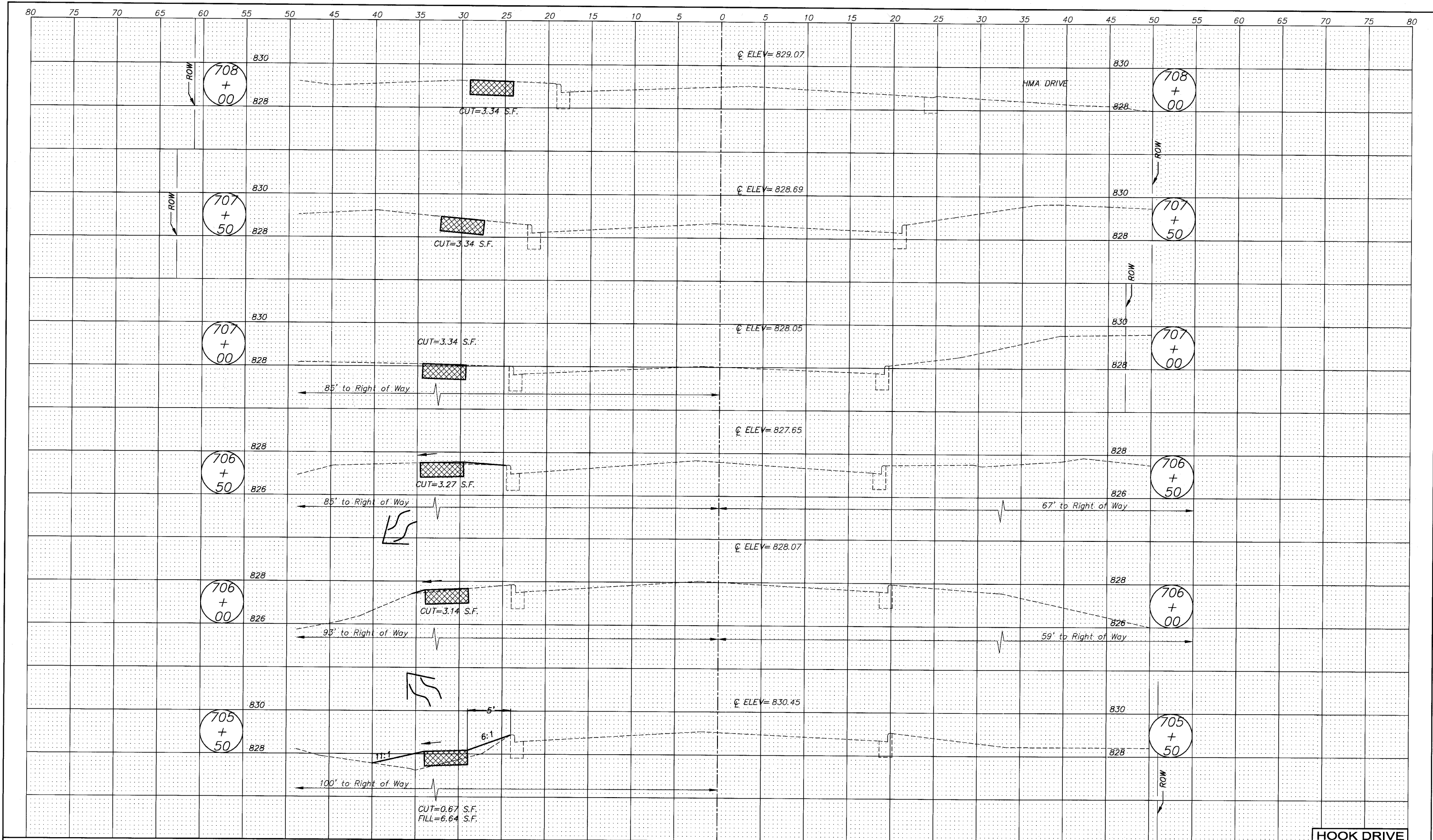
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USER NAME =	DESIGNED - RJD	REVISED -
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PLOT DATE =	DATE - 01/19/10	REVISED -

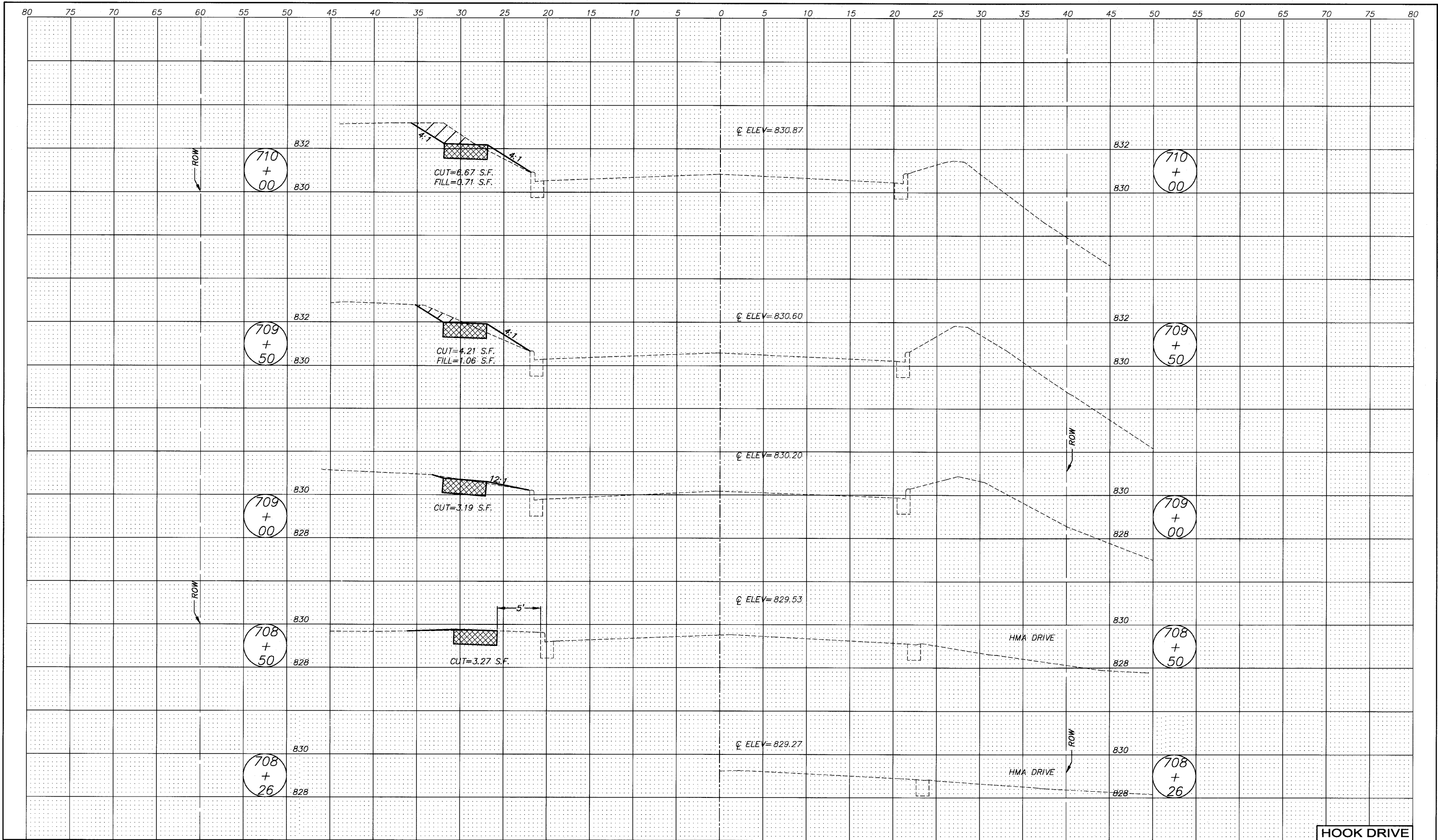
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE  
SCALE: 1"=5' SHEET NO. 57 OF 75 SHEETS STA. 702+50 TO STA. 705+00

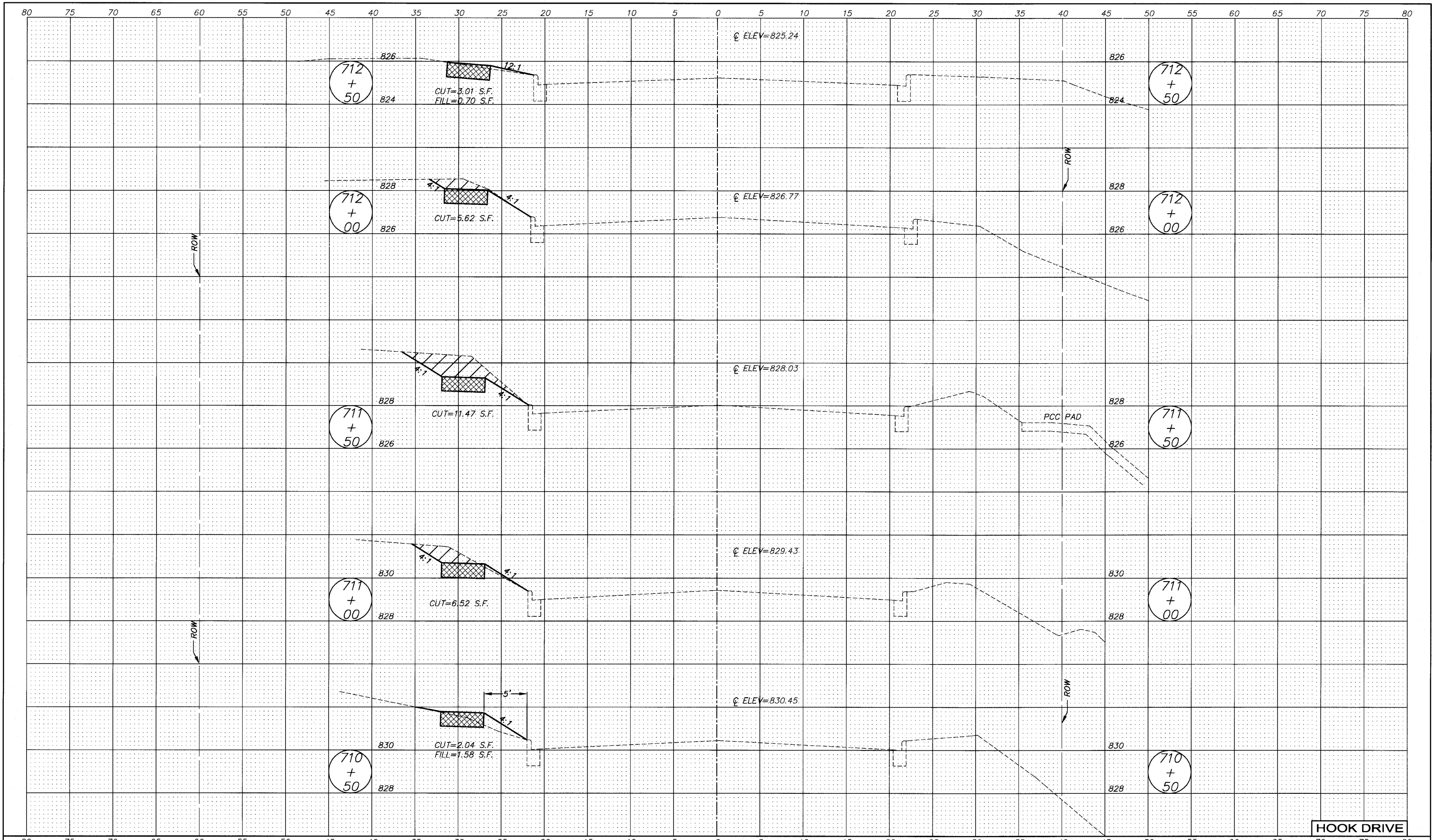
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	57
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



FILE NAME = 102589HOOKX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - HOOK DRIVE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE NAME =	DRAWN - EC	REVISED -	---			10-00073-00-SW	LAKE	75	58	
PLOT SCALE =	CHECKED - RJD	REVISED -	CONTRACT NO. 63467							
PLOT DATE =	DATE - 01/19/10	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: 1"=5'		SHEET NO. 58 OF 75 SHEETS		STA. 705+50 TO STA. 708+00		



FILE NAME = 102589HOOKX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - HOOK DRIVE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	FILE NAME =	DRAWN - EC	REVISED -			---	10-00073-00-SW	LAKE	75	59	
	PLOT SCALE =	CHECKED - RJD	REVISED -			SCALE: 1"=5'    SHEET NO. 59 OF 75 SHEETS    STA. 708+26    TO STA. 710+00		CONTRACT NO. 63467			
	PLOT DATE =	DATE - 10/02/09	REVISED -			ILLINOIS FED. AID PROJECT					



HOOK DRIVE

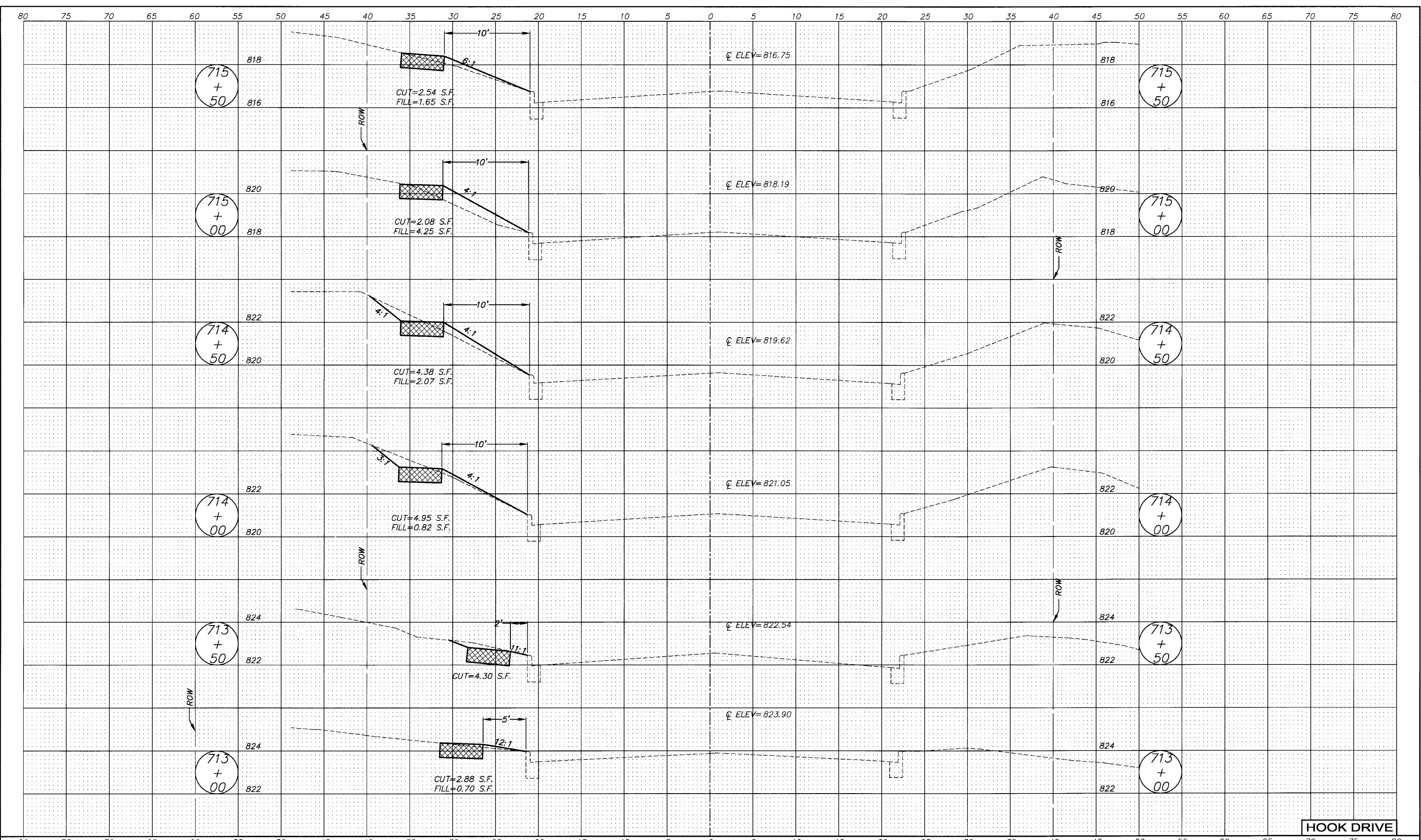
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	FILE NAME =	DRAWN -- EC	REVISED --
	PLOT SCALE =	CHECKED -- RJD	REVISED --
	PLOT DATE =	DATE -- 10/02/09	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - HOOK DRIVE**

SCALE: 1"=5'    SHEET NO. 60 OF 75 SHEETS    STA. 710+50    TO STA. 712+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	60
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



HOOK DRIVE

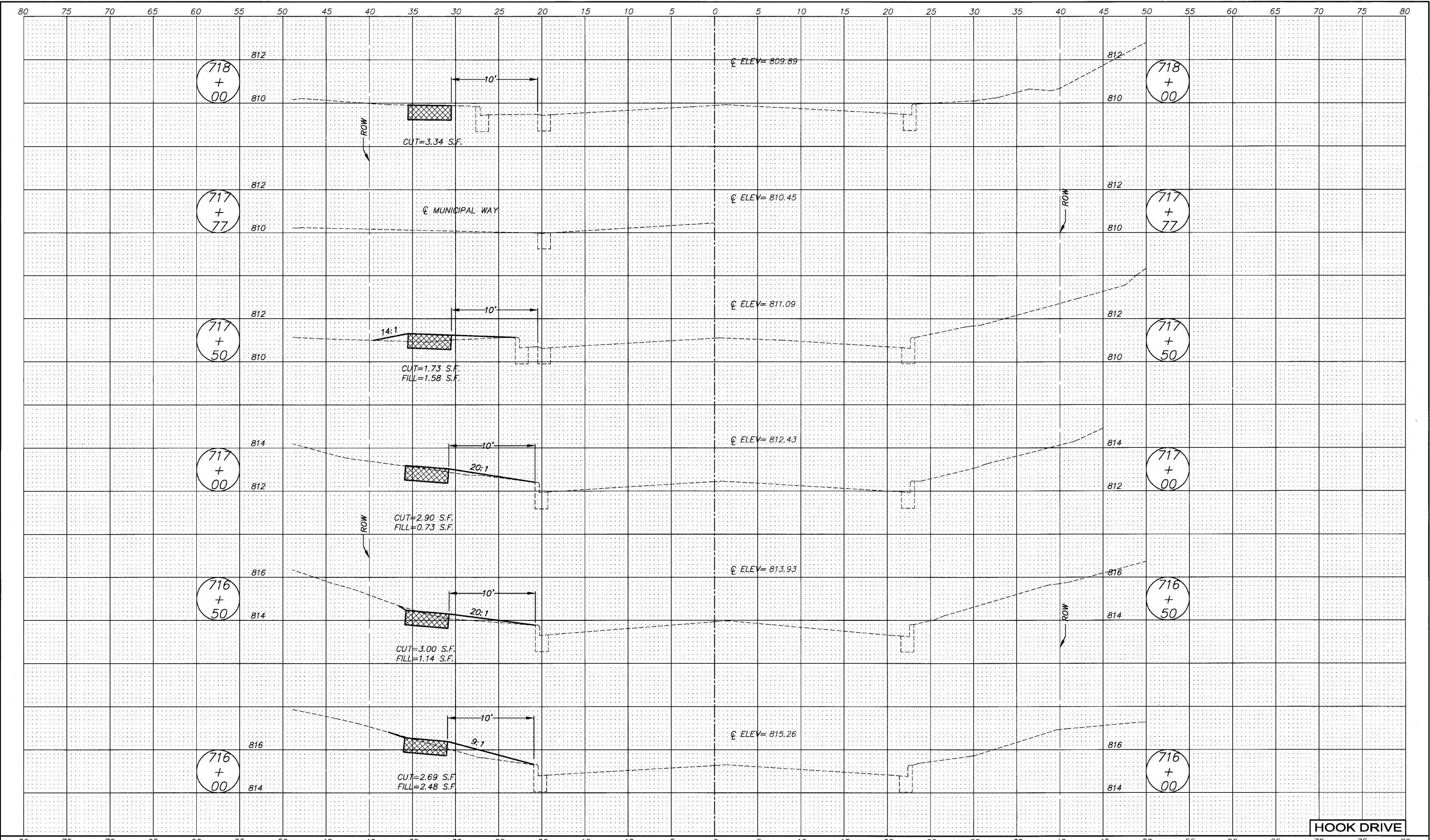
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	FILE NAME =	DRAWN - EC	REVISED -
	PLOT SCALE =	CHECKED - RJD	REVISED -
	PLOT DATE =	DATE - 10/02/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE

SCALE: 1"=5' SHEET NO. 61 OF 75 SHEETS STA. 713+00 TO STA. 715+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	61
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



HOOK DRIVE

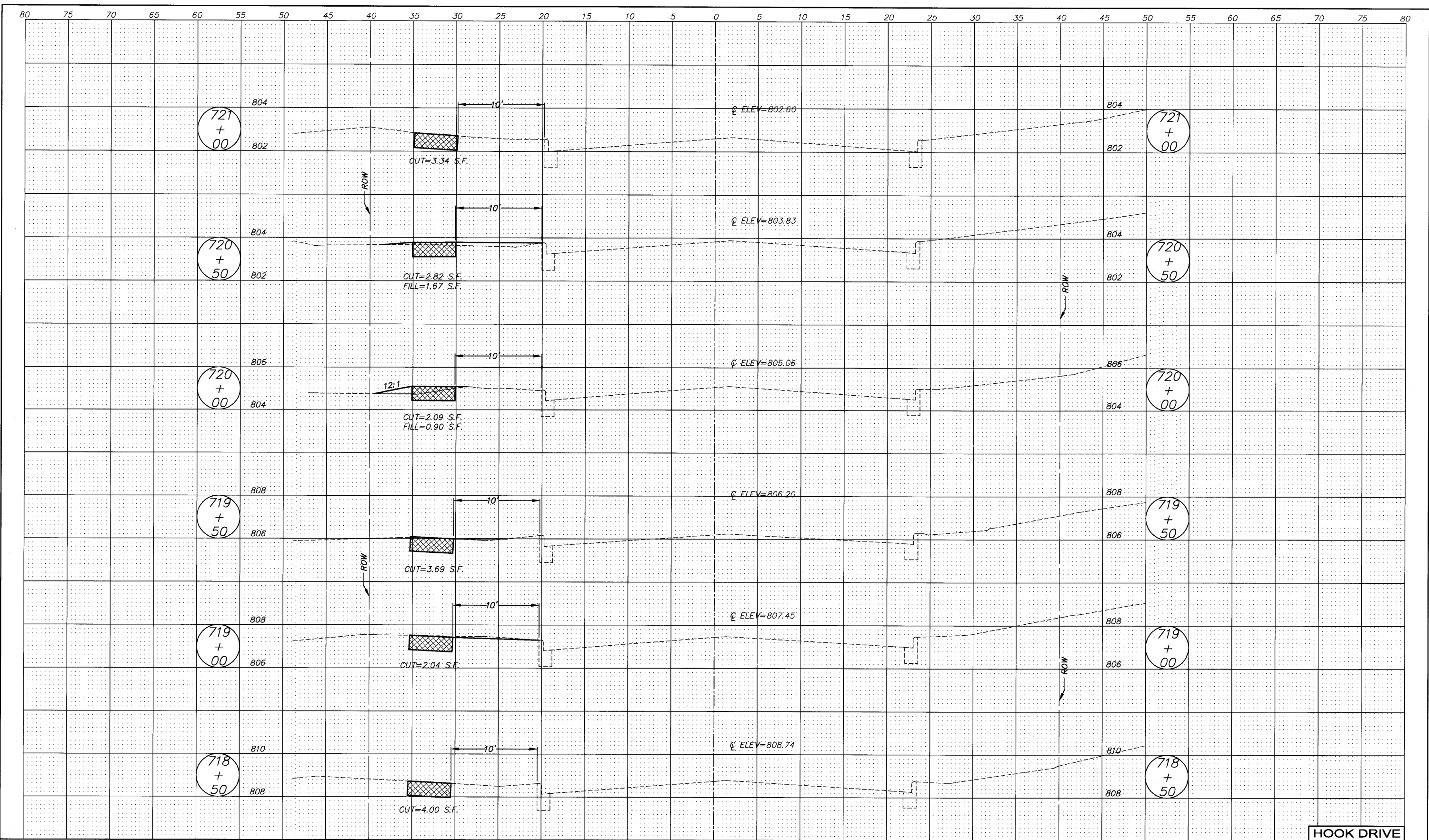
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	FILE NAME =	DRAWN - EC	REVISED -
	PLOT SCALE =	CHECKED - RJD	REVISED -
	PLOT DATE =	DATE - 10/02/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE

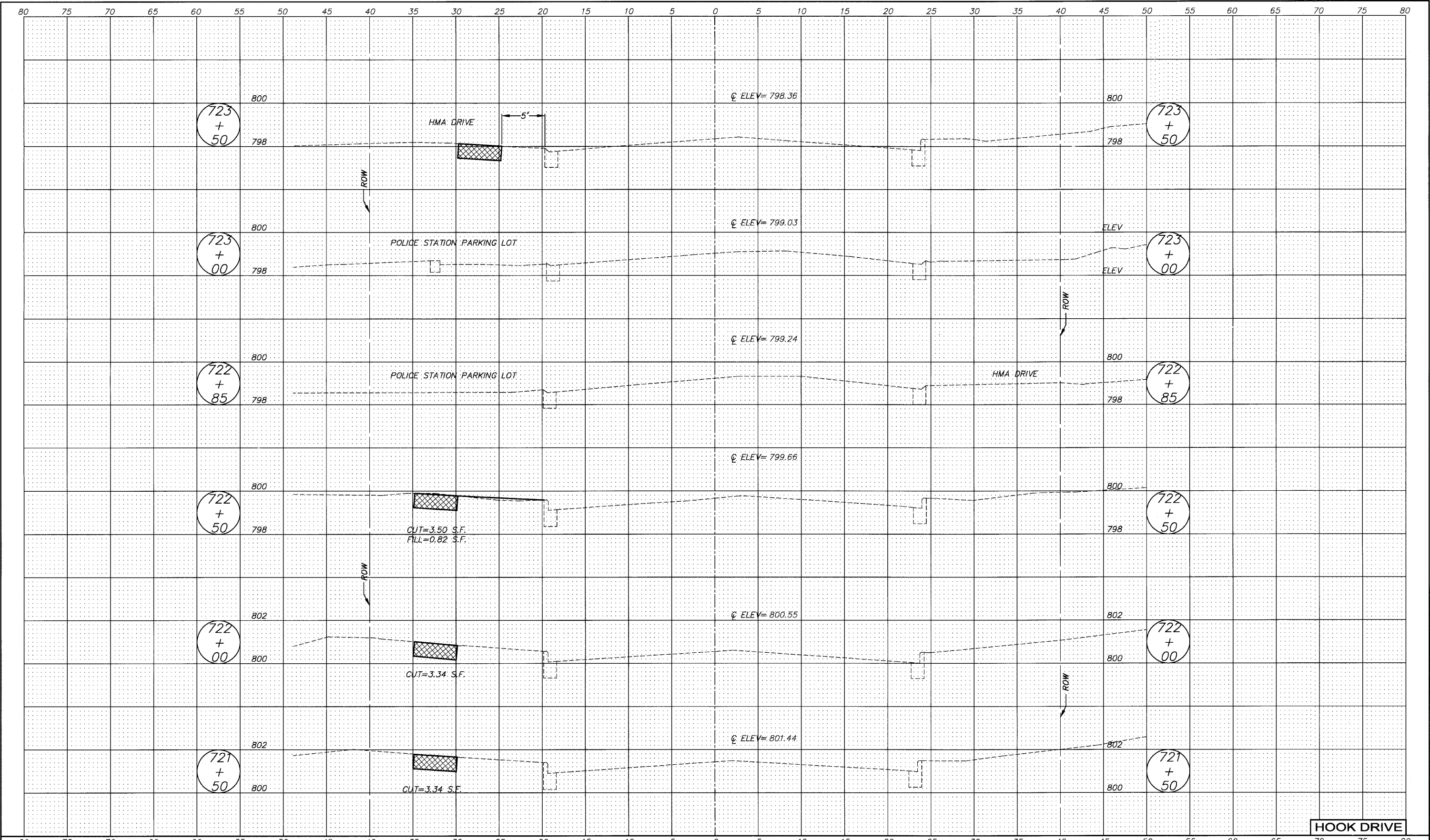
SCALE: 1"=5' SHEET NO. 62 OF 75 SHEETS STA. 716+00 TO STA. 718+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	62
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



HOOK DRIVE

FILE NAME = 102589HOOKX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - HOOK DRIVE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	FILE NAME =	DRAWN - EC	REVISED -			---	10-00073-00-SW	LAKE	75	63	
	PLOT SCALE =	CHECKED - RJD	REVISED -			SCALE: 1"=5'		SHEET NO. 63 OF 75 SHEETS		STA. 718+50 TO STA. 721+00	
	PLOT DATE =	DATE - 10/02/09	REVISED -			CONTRACT NO. 63467 ILLINOIS FED. AID PROJECT					



HOOK DRIVE

FILE NAME = 102589HOOKX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -
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	PLOT SCALE =	CHECKED - RJD	REVISED -
	PLOT DATE =	DATE - 10/02/09	REVISED -

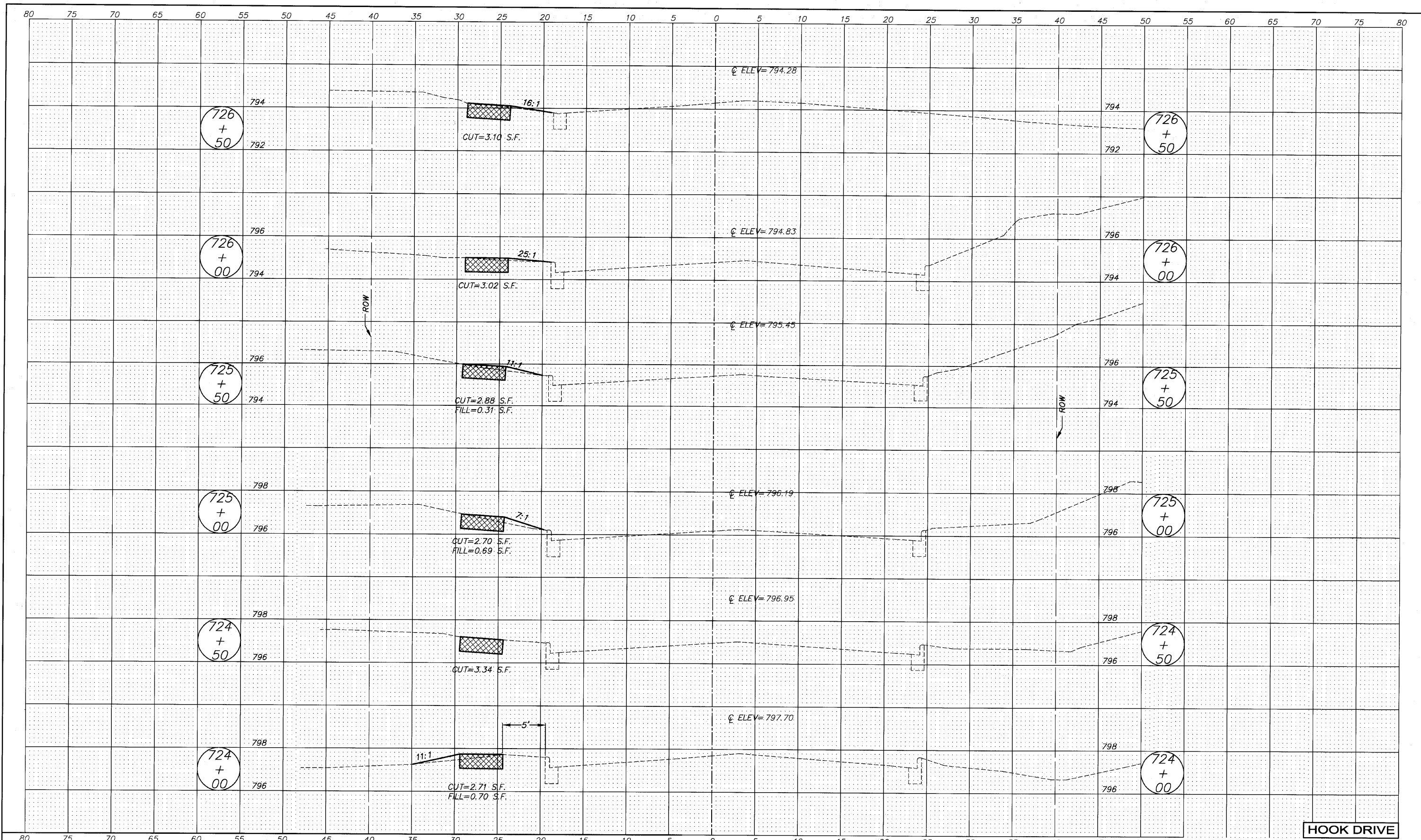
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE

SCALE: 1"=5' SHEET NO. 75 OF 64 SHEETS STA. 721+50 TO STA. 723+50

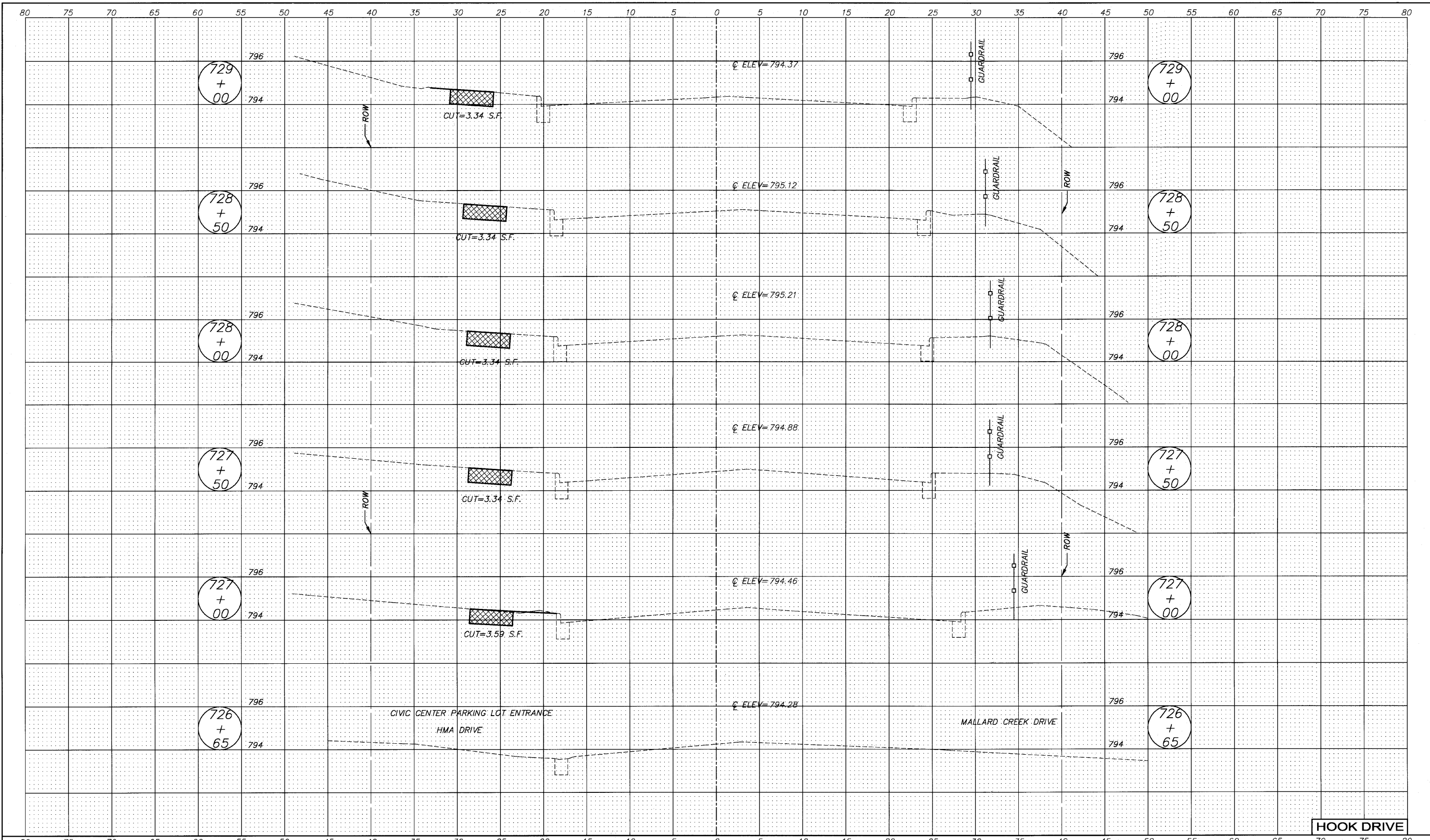
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	64
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



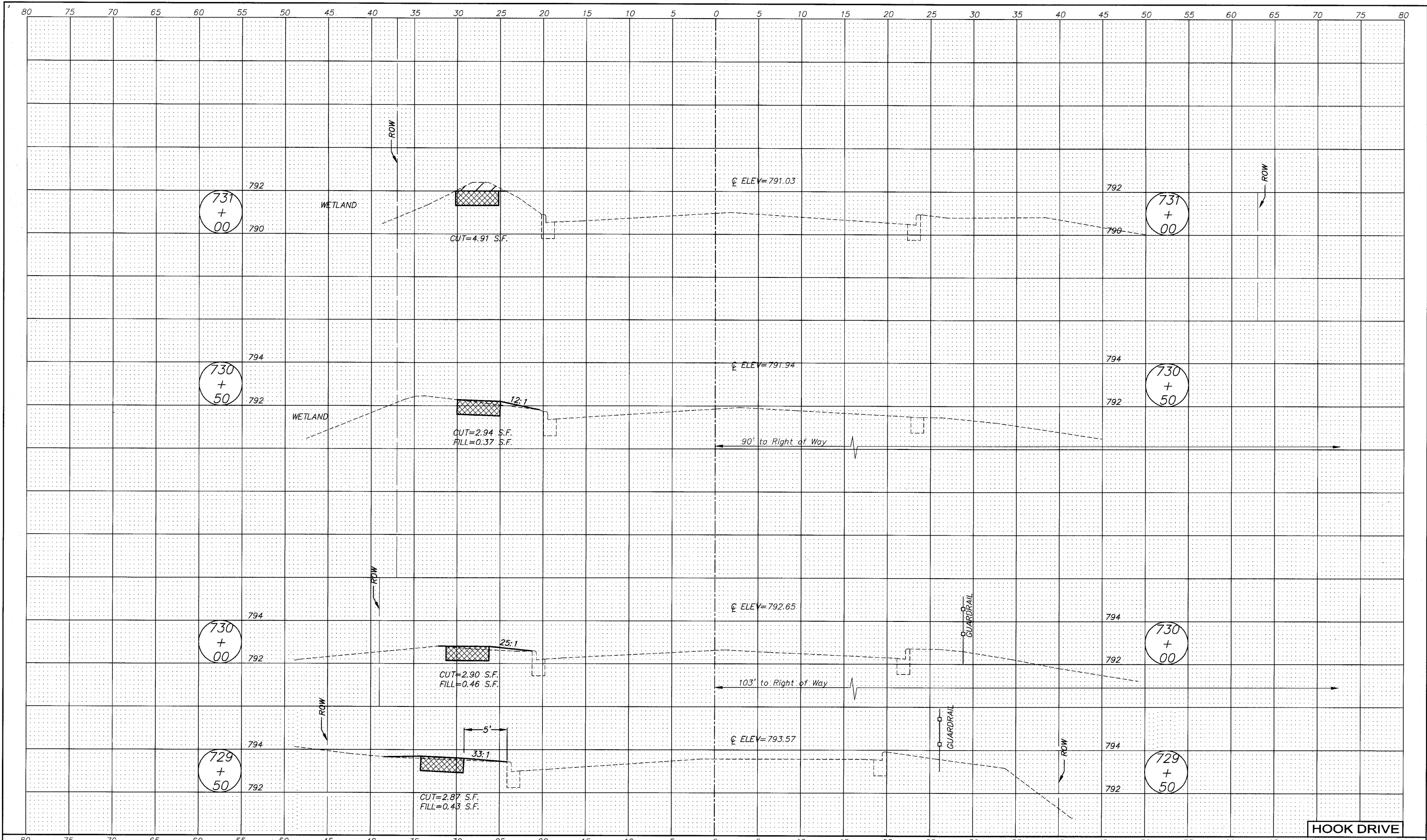


HOOK DRIVE

FILE NAME = 102589HOOKX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - HOOK DRIVE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	FILE NAME =	DRAWN - EC	REVISED -			---	10-00073-00-SW	LAKE	75	65	
	PLOT SCALE =	CHECKED - RJD	REVISED -			SCALE: 1"=5'   SHEET NO. 65 OF 75 SHEETS   STA. 724+00 TO STA. 726+50		CONTRACT NO. 63467			
	PLOT DATE =	DATE - 10/02/09	REVISED -			ILLINOIS FED. AID PROJECT					



FILE NAME = 102589HOOKX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - HOOK DRIVE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME =	DRAWN - EC	REVISED -		---	10-00073-00-SW	LAKE	75	66			
	PLOT SCALE =	CHECKED - RJD	REVISED -		SCALE: 1"=5'			SHEET NO. 66 OF 75 SHEETS STA. 726+65 TO STA. 729+00				
	PLOT DATE =	DATE - 10/02/09	REVISED -		ILLINOIS FED. AID PROJECT			CONTRACT NO. 63467				
					HOOK DRIVE							



HOOK DRIVE

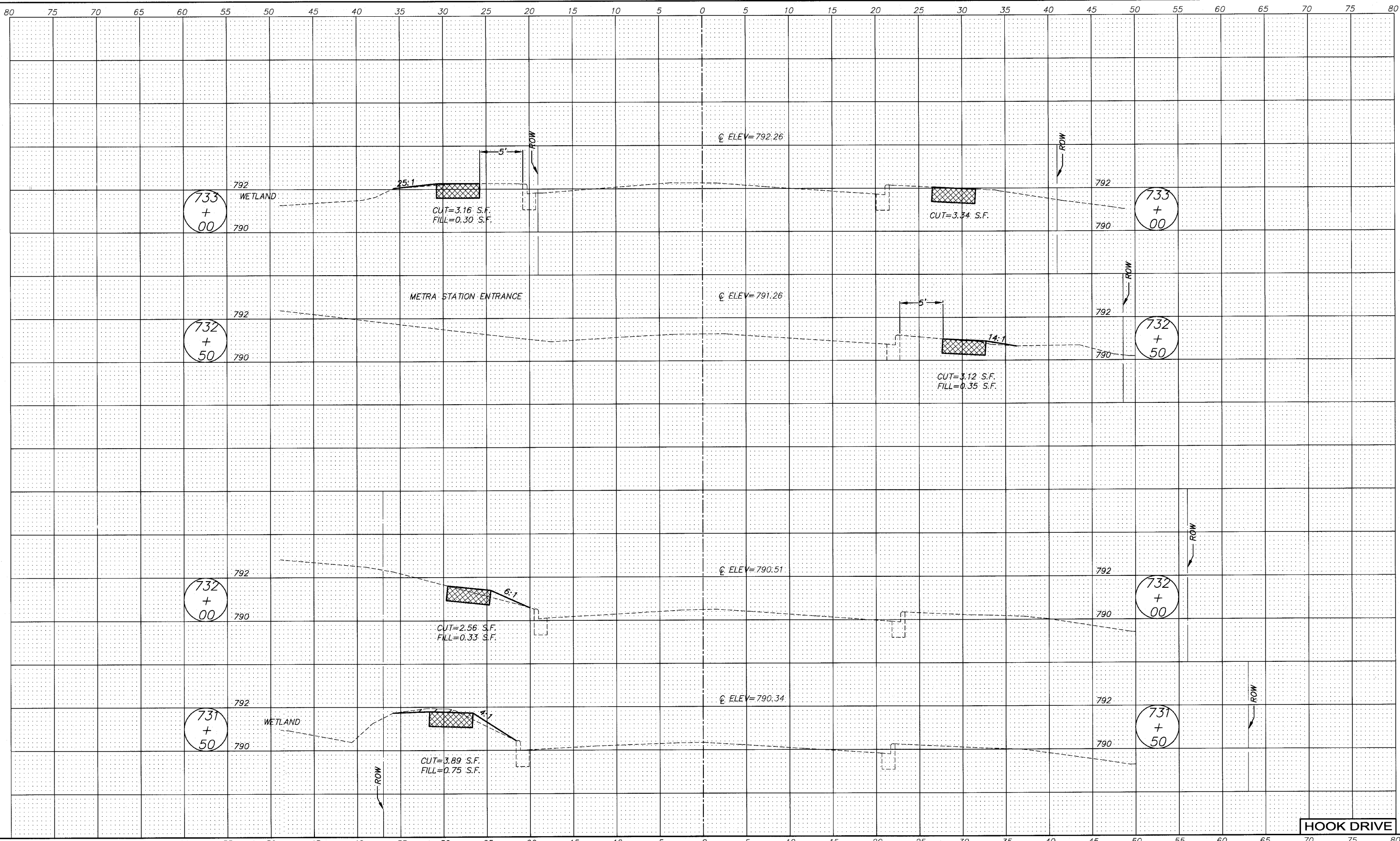
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PLOT DATE =	DATE - 10/02/09	REVISIONS -	REVISIONS -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE

SCALE: 1"=5' SHEET NO. 67 OF 75 SHEETS STA. 729+50 TO STA. 731+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	67
			CONTRACT NO. 63467	
ILLINOIS FED. AID PROJECT				



HOOK DRIVE

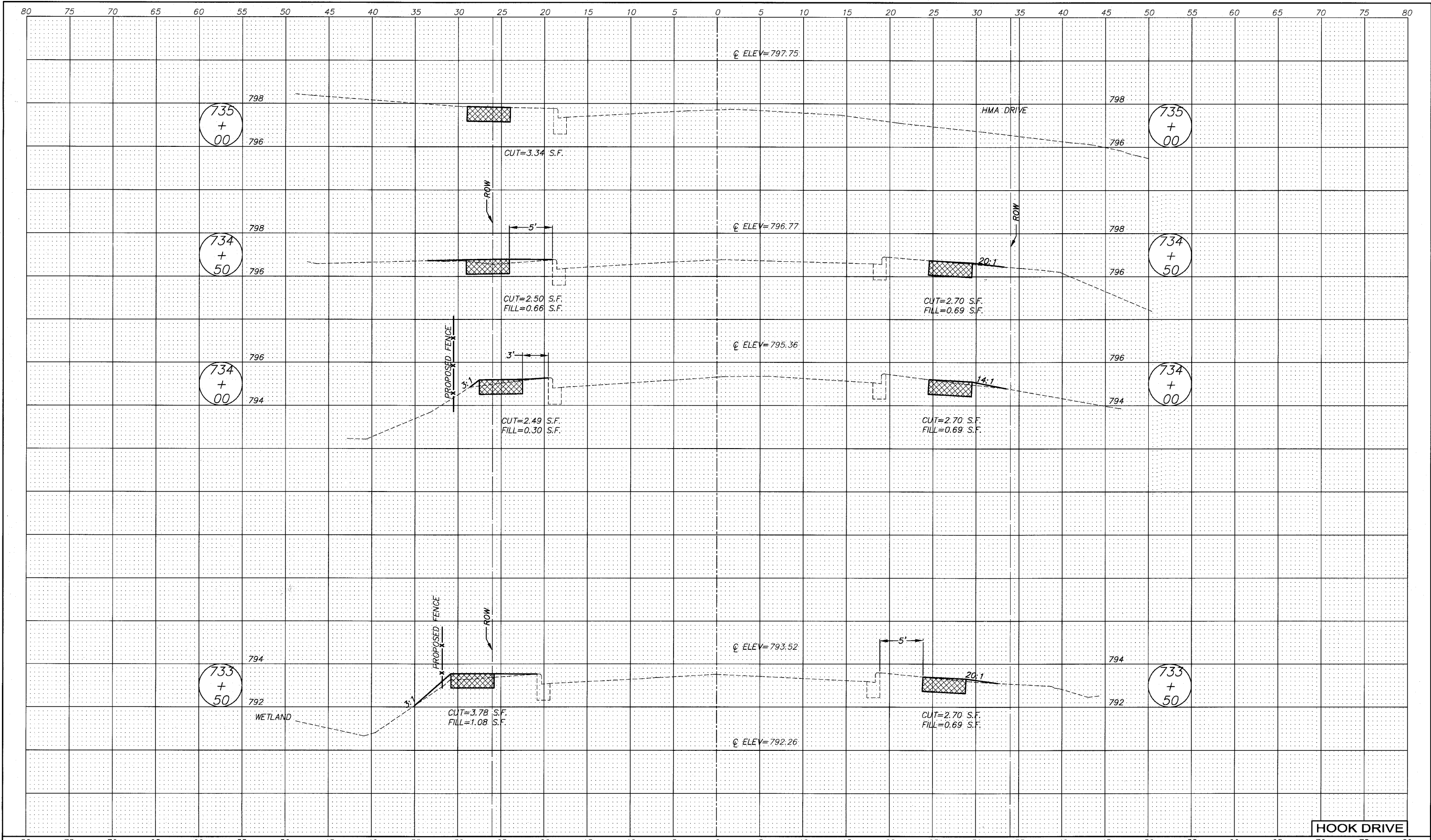
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	PLOT SCALE =	CHECKED - RJD	REVISED -
	PLOT DATE =	DATE - 10/02/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE

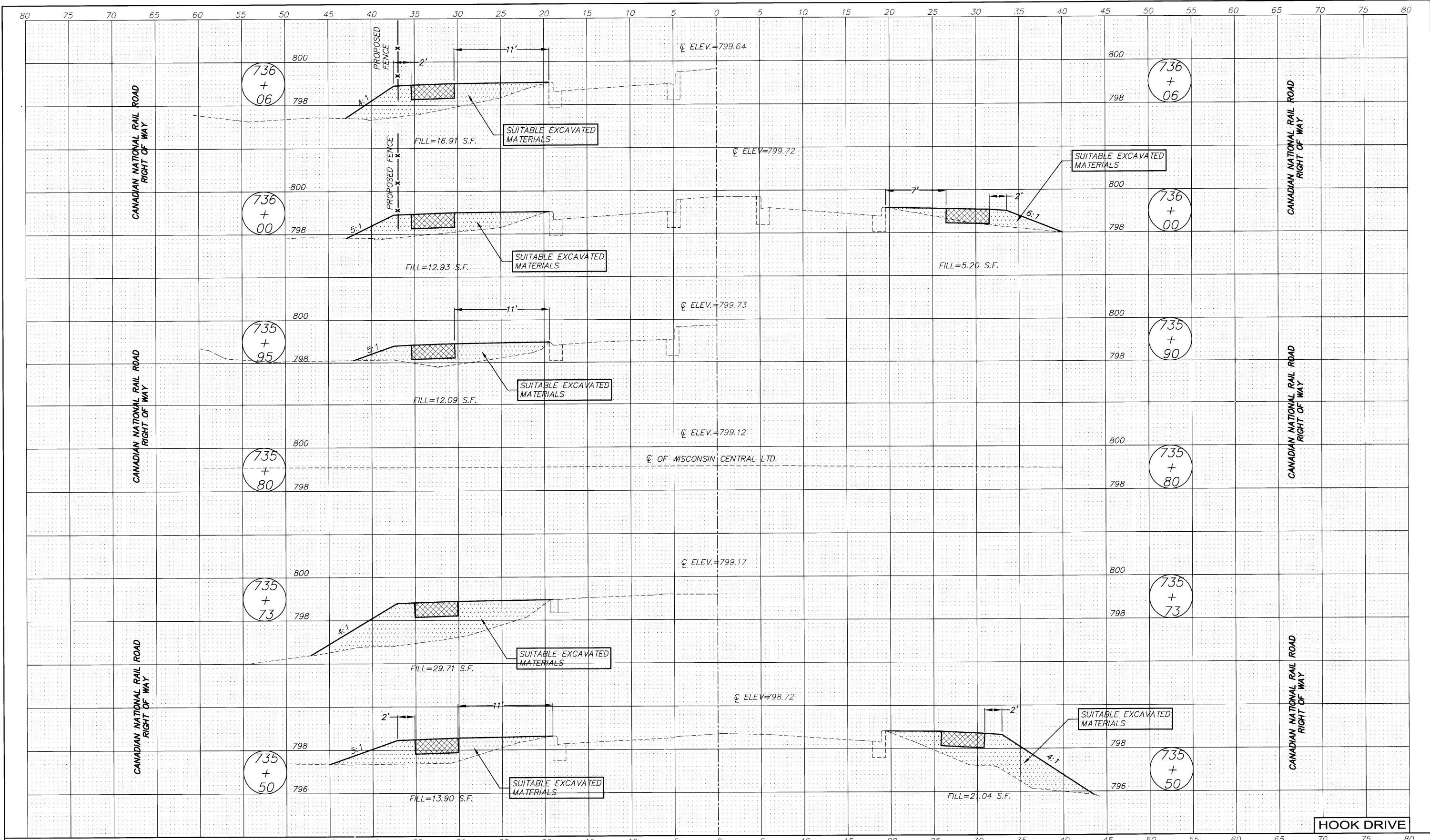
SCALE: 1"=5' SHEET NO. 68 OF 75 SHEETS STA. 731+50 TO STA. 733+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	68
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63467	



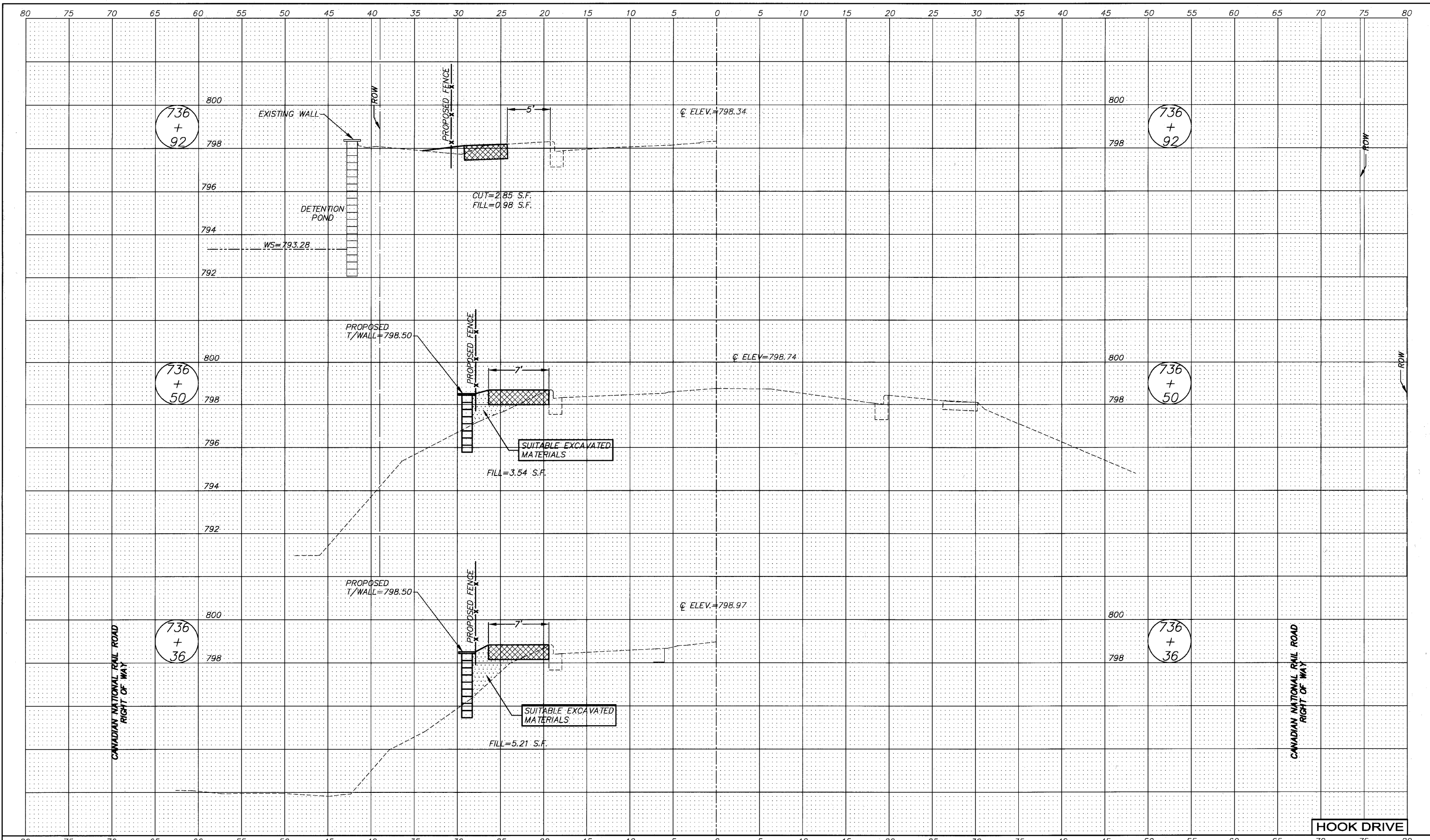
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FILE NAME =	DRAWN - EC	REVISED -	---				10-00073-00-SW	LAKE	75	69	
PLOT SCALE =	CHECKED - RJD	REVISED -	CONTRACT NO. 63467								
PLOT DATE =	DATE - 10/02/09	REVISED -	ILLINOIS FED. AID PROJECT								

SCALE: 1"=5' SHEET NO. 69 OF 75 SHEETS STA. 733+50 TO STA. 735+00



HOOK DRIVE

FILE NAME = 102589HOOKX05.DWG	USER NAME =	DESIGNED - R.J.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION - HOOK DRIVE			F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME =	DRAWN - E.C.	REVISED -		10-00073-00-SW	LAKE	75	70				
	PLOT SCALE =	CHECKED - R.J.D.	REVISED -		SCALE: 1"=5'			SHEET NO. 70 OF 75 SHEETS	STA. 735+50	TO STA. 736+06	CONTRACT NO. 63467	
	PLOT DATE =	DATE - 10/02/09	REVISED -		ILLINOIS FED. AID PROJECT							



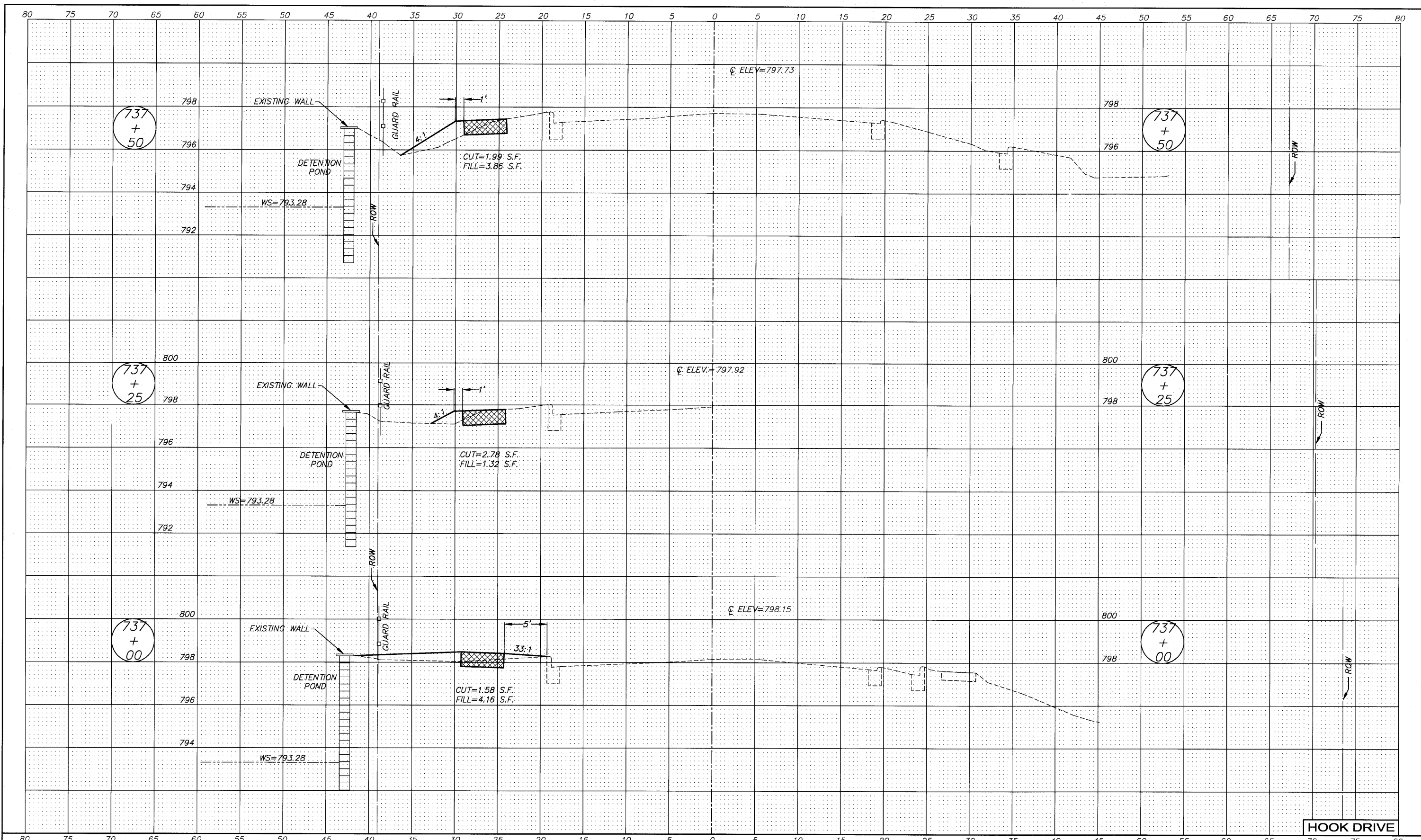
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	PLOT DATE =	DATE - 10/02/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - HOOK DRIVE**

SCALE: 1"=5'    SHEET NO. 71 OF 75 SHEETS    STA. 736+36    TO STA. 736+92

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00073-00-SW	LAKE	75	71
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



HOOK DRIVE

FILE NAME = 102589HOOKX05.DWG	USER NAME =	DESIGNED -- RJD	REVISED --
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	PLOT SCALE =	CHECKED -- RJD	REVISED --
	PLOT DATE =	DATE -- 10/02/09	REVISED --

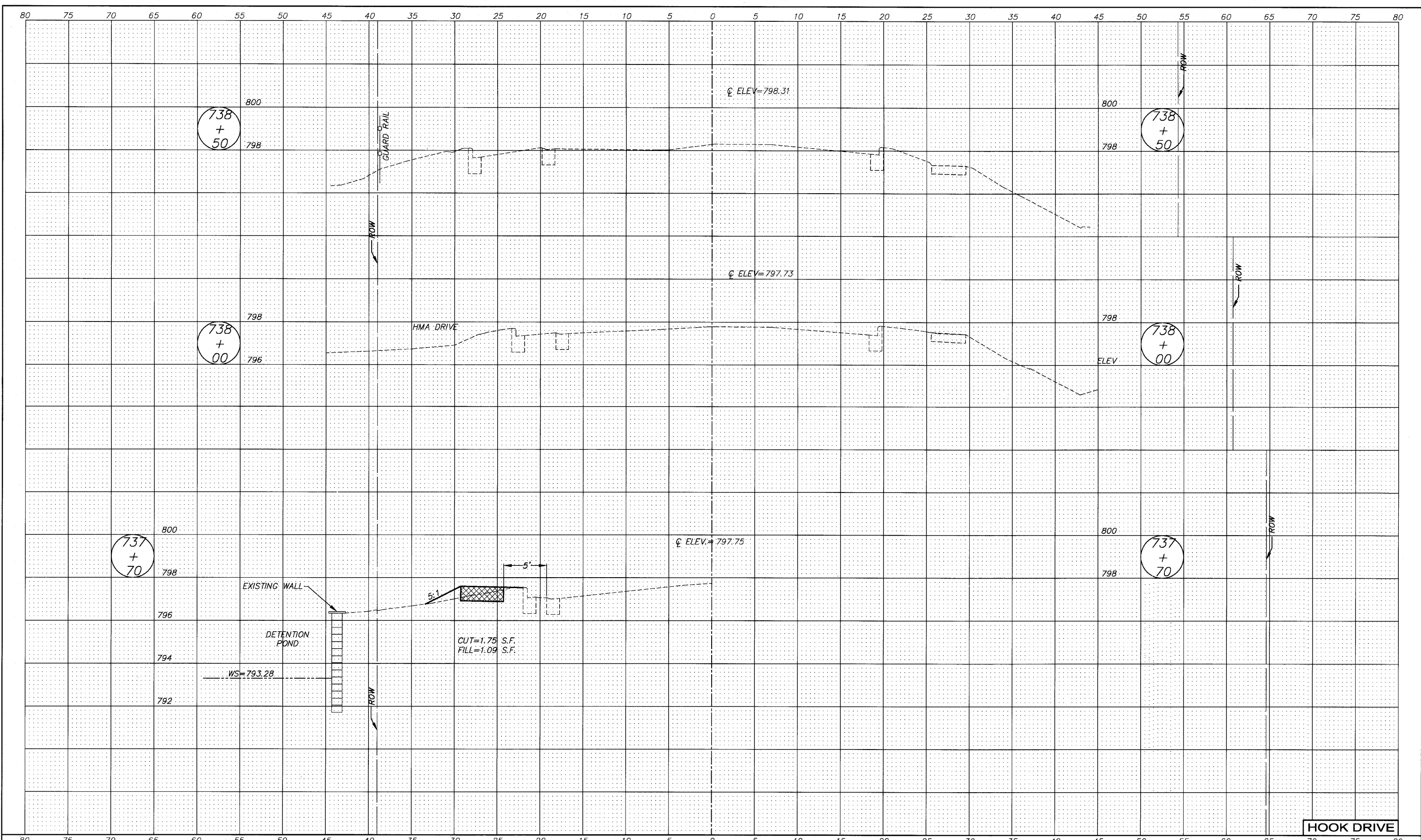
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE

SCALE: 1"=5' SHEET NO. 72 OF 75 SHEETS STA. 737+00 TO STA. 737+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00073-00-SW	LAKE	75	72
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	





HOOK DRIVE

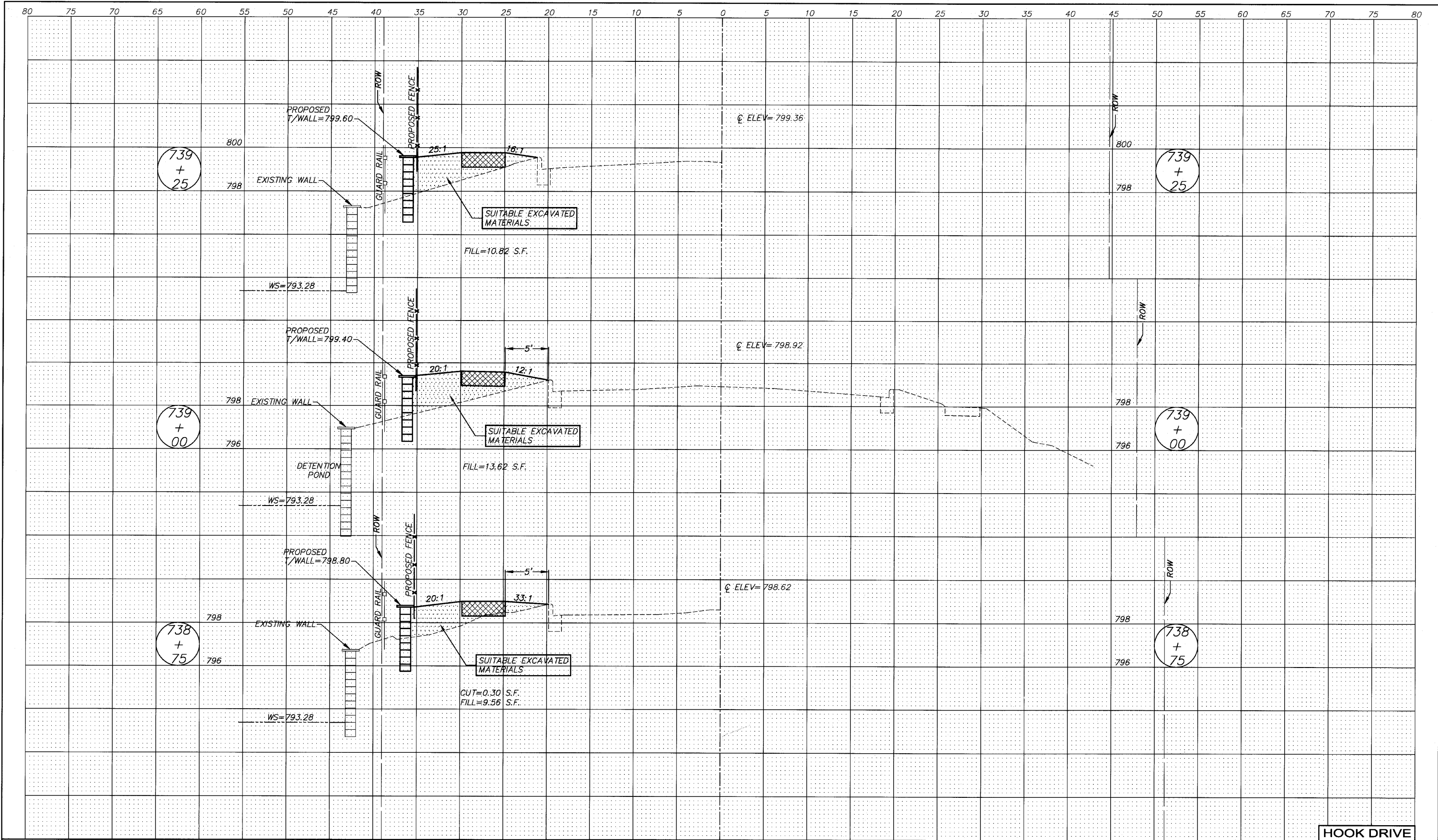
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	PLOT DATE =	DATE - 10/02/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE

SCALE: 1"=5'    SHEET NO. 73 OF 75 SHEETS    STA. 737+70    TO STA. 738+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00073-00-SW	LAKE	75	73
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



HOOK DRIVE

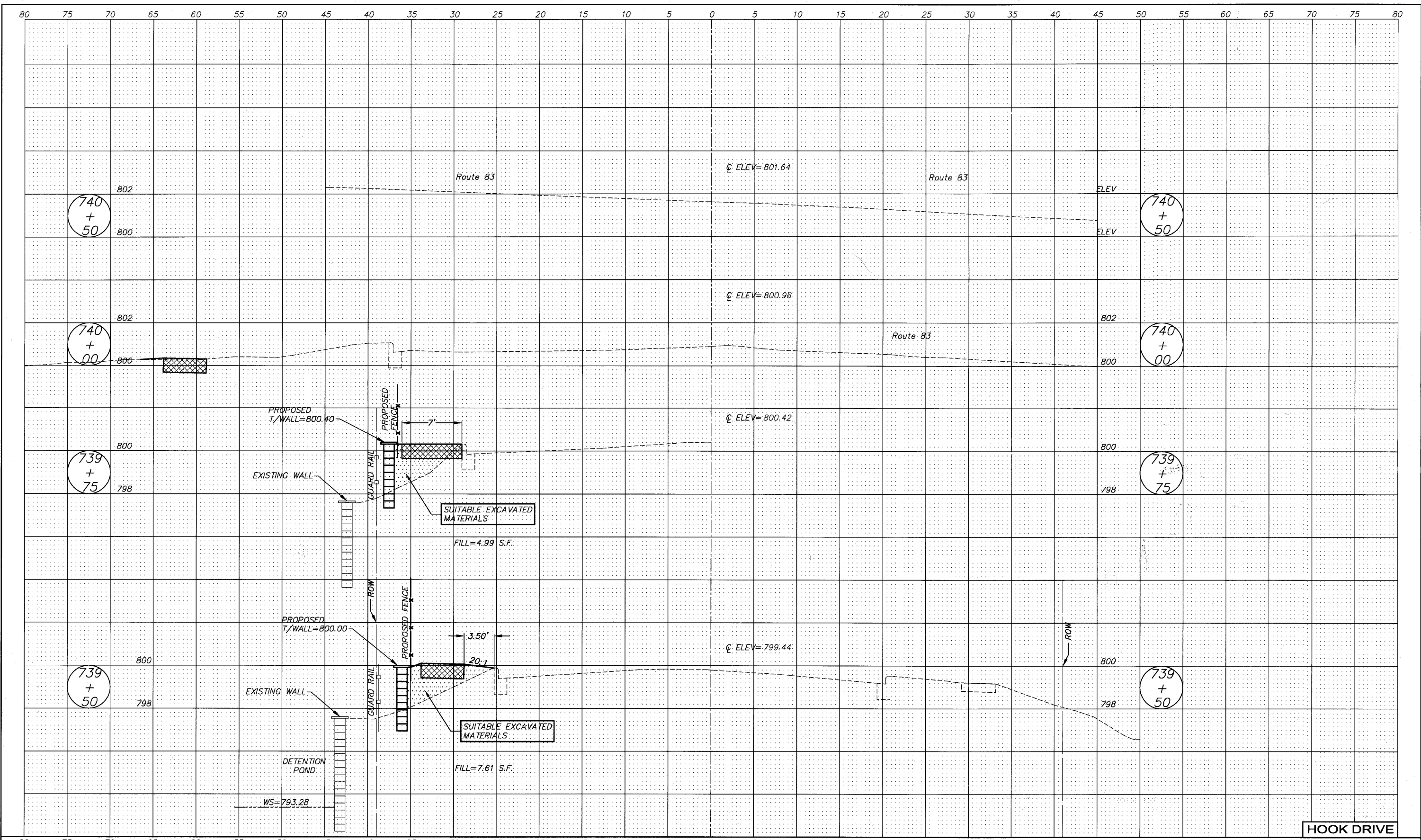
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	PLOT DATE =	DATE - 10/02/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE

SCALE: 1"=5' SHEET NO. 74 OF 75 SHEETS STA. 738+75 TO STA. 739+25

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	74
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	



HOOK DRIVE

FILE NAME = 102589HOOKX05.DWG	USER NAME =	DESIGNED - RJD	REVISED -
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	PLOT SCALE =	CHECKED - RJD	REVISED -
	PLOT DATE =	DATE - 10/02/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION - HOOK DRIVE

SCALE: 1"=5' SHEET NO. 75 OF 75 SHEETS STA. 739+50 TO STA. 740+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	10-00073-00-SW	LAKE	75	75
CONTRACT NO. 63467			ILLINOIS FED. AID PROJECT	