

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

PROJECT NO: HSIP-0132 (131)

FAP ROUTE 132 (IL 145) AND
FAS 0962 (COUNTRY CLUB ROAD) /
TR0115 (POWERS CHURCH ROAD)

SECTION 102 (N,L)
INTERSECTION IMPROVEMENT
MASSAC COUNTY

C-99-037-09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	1
		ILLINOIS	CONTRACT NO. 78116	

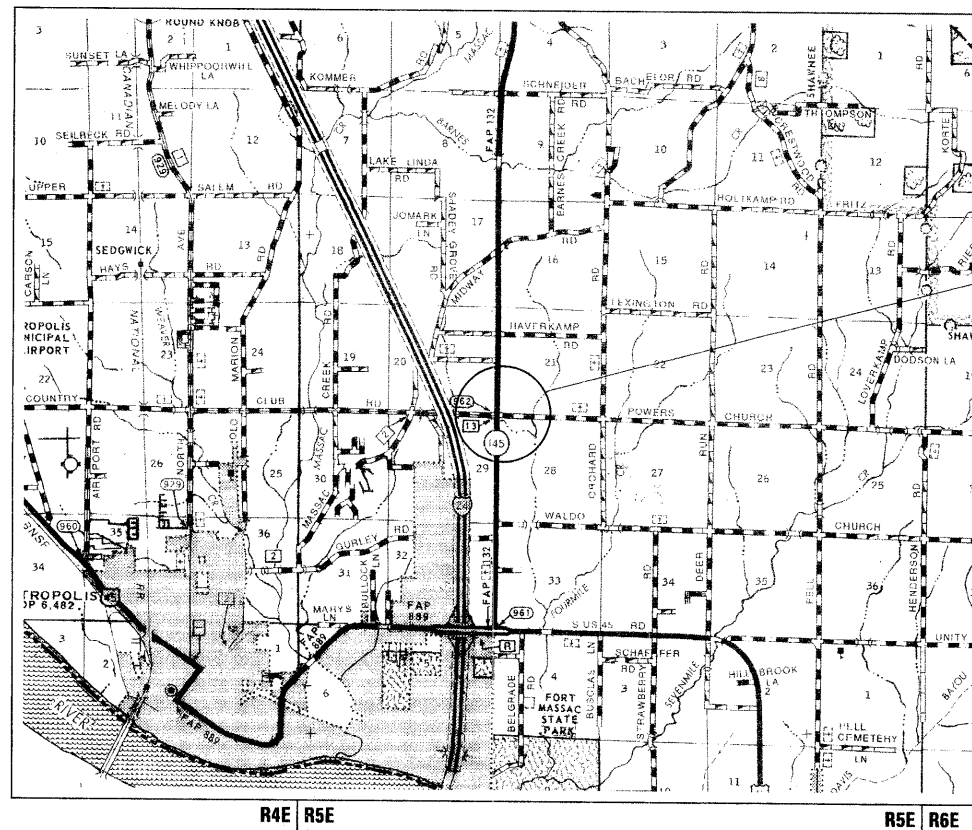
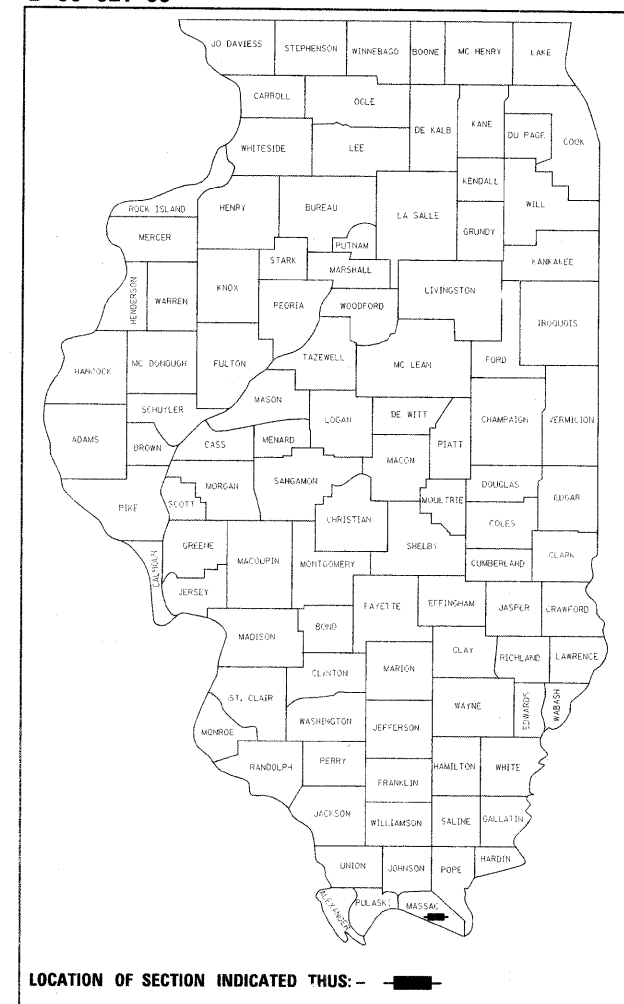
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-6

TRAFFIC DATA

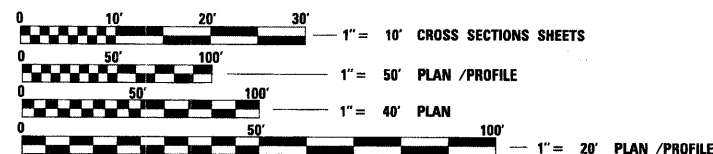
IL 145 (NORTH LEG)	2009 ADT = 2750 WITH 5.5% TRUCKS
IL 145 (SOUTH LEG)	2009 ADT = 3850 WITH 4.9% TRUCKS
COUNTRY CLUB RD. (WEST LEG)	2009 ADT = 2350 WITH 6.4% TRUCKS
POWERS CHURCH RD. (EAST LEG)	2009 ADT = 650 WITH 6.2% TRUCKS

TOWNSHIP: T.15S. - R.5E.

D-99-021-09



INTERSECTION IMPROVEMENTS STA. 303+30.96 TO 317+61.60



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: PATRICK NAAS
PROJECT MANAGER: SUSAN POE

GROSS LENGTH = 1430.64 FT. = 0.271 MILE
NET LENGTH = 1430.64 FT. = 0.271 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *2/2/11* 20 *11*
Mark J. ...
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 4 20 11
Scott E. Stitt, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

February 4 20 11
Christine M. Reed, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 78116

GENERAL NOTES

THE THICKNESS OF HOT MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT MIX ASPHALT MIXTURE IS PLACED.

IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	2.392 METRIC TONS/CU. METER (2.016 TONS/CU. YD.)
ALL AGGREGATE	2.43 METRIC TONS/CU. METER (2.05 TONS/CU. YD.)
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.41 LITERS/SQ. METER (0.09 GAL./SQ. YD.)
INTERMEDIATE. LIFTS(FOG COAT)	0.20 LITERS/SQ. METER (0.04 GAL./SQ. YD.)
ON AGGREGATE SURFACE	1.45 LITERS/SQ. METER (0.32 GAL./SQ. YD.)
AGGREGATE (PRIME COAT)	0.0016 METRIC TONS/SQ. METER (0.0015 TONS/SQ. YD.)
RIPRAP	1.78 METRIC TONS/CU. METER (1.50 TONS/CU. YD.)

EARTHWORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR HOT-MIX ASPHALT SURFACE REMOVAL, AND SURFACE COURSE.

FORMS FOR CONCRETE GUTTER TYPE A SHALL BE OF METAL ONLY, EXCEPT THAT WOOD FORMS MAY BE USED ON SHORT RADIUS CURVES.

PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURB, AND MEDIAN SURFACE AS NEEDED ACCORDING TO THE SEASONAL REQUIREMENTS OF ARTICLE 420.18.

ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE HOT MIX ASPHALT SURFACE REMOVAL.

WHEN WIDENING FLEXIBLE BASE PAVEMENT, THE CONTRACTOR SHALL TRIM EXISTING SURFACE AND BASE TO A FIRM, NEAR VERTICAL PLANE BEFORE CONSTRUCTING THE WIDENING. THE COST OF THIS REQUIREMENT IS INCLUDED IN THE UNIT PRICE BID FOR THE BASE COURSE WIDENING.

AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

THE MINIMUM VERTICAL CLEARANCE FOR PERMANENT SIGNS PLACED ON BACKSLOPES SHALL BE 0.914 m (3 FT.) MEASURED FROM A POINT DIRECTLY BENEATH THE FAR EDGE OF THE SIGN.

THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED HOT MIX ASPHALT SURFACE AT 100 m (300 FT.) INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 140 mm (5 IN.) TALL, OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

THE REMOVAL OF EXISTING ENTRANCE PIPE CULVERTS ENCASED IN CONCRETE WILL BE CONSIDERED INCLUDED IN THE OTHER ITEMS OF CONSTRUCTION IF ONLY THE ENDS OF THE CULVERT (0.6 m (2 FT.) OR LESS) ARE ENCASED. IF MORE THAN 0.6 m (2 FT.) AT THE ENDS OF THE CULVERT ARE ENCASED IN CONCRETE, THE REMOVAL WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

ALL CULVERT EXTENSIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH METHOD II AS SPECIFIED IN ARTICLE 542.05 OF THE STANDARD SPECIFICATIONS. PRIOR TO EXTENDING ANY CULVERT, THE ENTIRE LENGTH OF THE EXISTING CULVERT SHALL BE CLEANED OF ALL EARTH AND DEBRIS BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. THE COST OF THIS WORK SHALL BE PAID ACCORDING TO ARTICLE 109.04.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

CONNECTING OF NEW OR EXISTING STORM SEWER TO NEW OR EXISTING INLETS OR MANHOLES SHALL BE MADE IN A MANNER WHICH RESULTS IN A NEAT AND WATERTIGHT JOINT. WHEN PLACED THROUGH THE WALL OF AN INLET OR MANHOLE, STORM SEWER PIPE SHALL BE PLACED OR CUT FLUSH WITH THE FACE OF THE WALL AND DRESSED WITH MORTAR TO PROVIDE A SMOOTH ROUNDED OR BEVELED EDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.

EXISTING SURFACE DISTURBED DURING EXCAVATION FOR FOUNDATIONS AND PUSH PITS SHALL BE RESTORED TO THE LIMITS AND CONDITION SPECIFIED BY THE ENGINEER OR AS SHOWN ON THE PLANS. UNLESS NOTED OTHERWISE ON THE PLANS THE REMOVAL AND RESTORATION SHALL BE INCLUDED IN THE CONTRACT.

CABLE QUANTITIES ARE MEASURED IN PLAN VIEW.

RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B.

ALL PROPOSED LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS DIRECTED BY THE ENGINEER.

CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.

THE PROPOSED LIGHT POLES SHALL BE LOCATED AS NOTED ON THE PLANS, 20 FEET FROM EDGE OF PAVEMENT, OR AS DIRECTED BY THE ENGINEER. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED PLUMB AND FLUSH WITH THE PROPOSED GRADE AND SHALL MEET THE HEIGHT REQUIREMENTS OF ARTICLE 836.03 OF THE STANDARD SPECIFICATIONS. AFTER UNIT DUCT IS INSTALLED, FOUNDATIONS SHALL BE FILLED WITH FINE AGGREGATE ACCORDING TO ARTICLE 836.03. A STAINLESS STEEL SCREEN SHALL BE INSTALLED TO SEAL THE OPENING BELOW THE POLE BASE FROM RODENT ENTRY. WASHERS USED TO INSTALL THE POLE SHALL BE LARGE ENOUGH TO FULLY COVER THE SLOTTED HOLES IN THE POLE BASE PLATE.

CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE "TRENCH AND BACKFILL FOR ELECTRICAL WORK" PAY ITEM.

THE CONTRACTOR SHALL PROVIDE AND INSTALL A CONCRETE WORK PAD IN FRONT OF THE LIGHTING CONTROLLER PER SECTION 825 OF THE STANDARD SPECIFICATIONS.

COMMITMENTS:
THE FOLLOWING COMMITMENTS WERE MADE TO POWERS METHODIST CHURCH:
-THE EXISTING ENTRANCES WILL BE RECONSTRUCTED AND WILL BE TIED INTO THE EXISTING DRIVEWAYS.
-THE PROJECT WILL NOT DIVERT ANY ADDITIONAL WATER ONTO CHURCH PROPERTY.
-THE DEPARTMENT HAS DETERMINED BY SURVEY THAT THE SIGN LOCATED NEAR THE SOUTHWEST CORNER OF THE PROPERTY IS NOT INCLUDED IN THE ACQUISITION OF PARCEL NO. 9015209 AND WILL NOT BE DISTURBED DURING CONSTRUCTION.

THE RESIDENT ENGINEER SHALL CONTACT THE FOLLOWING PERSONS A MINIMUM OF 14 CALENDAR DAYS PRIOR TO LANE CLOSURES TO INFORM OF PROPOSED CLOSURE DATE:

RODNEY BRUGGER, METROPOIS FIRE CHIEF - (618) 524-2121
KEITH DAVIS, METROPOLIS EMERGENCY MANAGEMENT DIRECTOR AND MASSAC COUNTY 911 DIRECTOR - (618) 638-2345
TERESA BUNTING, DISPATCHER - (270) 748-6921
TED HOLDER, MASSAC COUNTY SHERIFF - (618)524-2912
LARRY DOUGLAS, MASSAC COUNTY EMERGENCY SERVICES DISASTER AGENCY = (618) 309-3993
POPE COUNTY SHERIFF - (618)683-4321
LARRY GLASCO, MASSAC COUNTY ENGINEER (618)524-5921

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Prepared By: Joe Zolnowicz
DISTRICT STUDIES & PLANS ENGINEER

Examined By: James Lewis Emery
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Carrie Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Kurt Wiley
DISTRICT OPERATIONS ENGINEER

Examined By: [Signature]
DISTRICT CONSTRUCTION ENGINEER

Examined By: Bruce W. Peck
DISTRICT MATERIALS ENGINEER

Examined By: [Signature]
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Danny Clayton
ASSISTANT REGIONAL ENGINEER

Approved By: [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DATE: Dec 16 2000

MIXTURE REQUIREMENTS

Location(s):	Hot-Mix Asphalt Surface Course
Mixture Use(s):	Polymerized Hot-Mix Asphalt Surface Course, MIX D, N90
AC/PG:	SBS PG76-22
RAP % (Max):	0
Design Air Voids:	4.0 %, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5 mm or IL12.5 mm
Friction Aggregate:	D Surface
Location(s):	Hot-Mix Asphalt Binder Course (Top Lift, 2 1/4")
Mixture Use(s):	Polymerized Hot-Mix Asphalt Binder Course, N90, IL-19.0
AC/PG:	SBS PG76-22
RAP % (Max):	0
Design Air Voids:	4.0 %, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-19.0 mm
Friction Aggregate:	None
Location(s):	Hot-Mix Asphalt Binder Course (Lower lifts)
Mixture Use(s):	Hot-Mix Asphalt Binder Course, N90, IL-19.0
AC/PG:	PG64-22
RAP % (Max):	10
Design Air Voids:	4.0 %, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-19.0
Friction Aggregate:	None
Location(s):	Hot-Mix Asphalt Shoulders, 8"
Mixture Use(s):	Hot-Mix Asphalt Shoulders
AC/PG:	PG58-22
RAP % (Max):	50
Design Air Voids:	2.0 %, 30 Gyration Design
Mixture Composition: (Gradation Mixture)	HMA Shoulder
Friction Aggregate:	None

STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECT
542301-03	PRECAST REINFORCED CONCRETE END SECTION
606101-04	TYPE A GUTTER - INLET, OUTLET, AND ENTRANCE
701001-02	OFF-ROAD OPERATIONS 2-L, 2-W, MORE THAN 15' AWAY
701006-03	OFF-ROAD OPERATIONS 2-L, 2-W, 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >45 MPH
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE 2-L, 2-W MOVING OPERATIONS - DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701336-06	LANE CLOSURE, 2L, 2W, WORK IN A SERIES, FOR SPEEDS > 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
825001-01	LIGHTING CONTROLLER POLE MOUNTED, 240V
836001	LIGHTPOLE FOUNDATION
B. L. R. 22-6	TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC), (ROAD CLOSED TO THRU TRAFFIC)

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONST. TYPE CODE 0021	
		UNIT	TOTAL QUANTITIES 90% FED 10% STATE
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	2
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
X8130125	REMOVE EXISTING JUNCTION BOX	EACH	1
Z0013300	CONCRETE REMOVAL SPECIAL	SQ YD	136
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	104
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	92
* 20101400	NITROGEN FERTILIZER NUTRIENT	POUND	204
* 20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	153
* 20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	153
20200100	EARTH EXCAVATION	CU YD	2577
20300100	CHANNEL EXCAVATION	CU YD	188
20700110	POROUS GRANULAR EMBANKMENT	TON	3703
20800150	TRENCH BACKFILL	CU YD	29
* 25000115	SEEDING, CLASS 1B	ACRE	1.28
* 25000350	SEEDING, CLASS 7	ACRE	1.28
* 25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.55
* 25100115	MULCH, METHOD 2	ACRE	2.55
* 25100630	EROSION CONTROL BLANKET	SQ YD	6175
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200
28000305	TEMPORARY DITCH CHECKS	FOOT	108
28000500	INLET AND PIPE PROTECTION	EACH	4
28100209	STONE RIP RAP, CLASS A5	TON	127
28200200	FILTER FABRIC	SQ YD	65
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	456
40600300	AGGREGATE (PRIME COAT)	TON	8
40600990	TEMPORARY RAMP	SQ YD	51
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	1050
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	547
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	3
44000100	PAVEMENT REMOVAL	SQ YD	303
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	4769
44000400	GUTTER REMOVAL	FOOT	359
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	2561
48101200	AGGREGATE SHOULDERS, TYPE B	TON	12
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	2193
48301000	PROTECTIVE COAT	SQ YD	409

*SPECIALTY ITEM

FILE NAME =	USER NAME = naasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct\pv_wor-k\p1dot\naasdp\d0125145\d97811	5_sht_miso.dgn	DRAWN -	REVISED -			132	102 (N,L)	MASSAC	79	4	
PLOT SCALE = 40,0000' / IN.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 78116		ILLINOIS FED. AID PROJECT			
PLOT DATE = 12/20/2010	DATE -	REVISED -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA.	TO STA.			

SUMMARY OF QUANTITIES (CONTINUED)

CODE NO.	ITEM	CONST. TYPE CODE 0021	
		UNIT	TOTAL QUANTITIES 90% FED 10% STATE
50105220	PIPE CULVERT REMOVAL	FOOT	150
50200100	STRUCTURE EXCAVATION	CU YD	1368
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	20705
54003000	CONCRETE BOX CULVERTS	CU YD	93
54010808	PRECAST CONCRETE BOX CULVERTS 8' X 8'	FOOT	180
542A0217	PIPE CULVERT, CLASS A, TYPE 1 12"	FOOT	33
542A0223	PIPE CULVERT, CLASS A, TYPE 1 18"	FOOT	11
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	3
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2
54248510	CONCRETE COLLAR	CU YD	0.64
550A0050	STORM SEWER CLASS A, TYPE 1 12"	FOOT	67
550A0410	STORM SEWER CLASS A, TYPE 2 24"	FOOT	164
55100500	STORM SEWER REMOVAL 12"	FOOT	43
55100900	STORM SEWER REMOVAL 18"	FOOT	94
60602500	CONCRETE GUTTER, TYPE A	FOOT	990
63200310	GUARDRAIL REMOVAL	FOOT	342
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	27
67000400	ENGINEER'S FIELD OFFICE TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70101835	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2
70300100	SHORT TERM PAVEMENT MARKING	FOOT	322
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	41
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8250
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	555
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	63
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3579
* 72000100	SIGN PANEL - TYPE 1	SQ FT	98
* 72000200	SIGN PANEL - TYPE 2	SQ FT	105
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	41
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8250
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	555
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	63

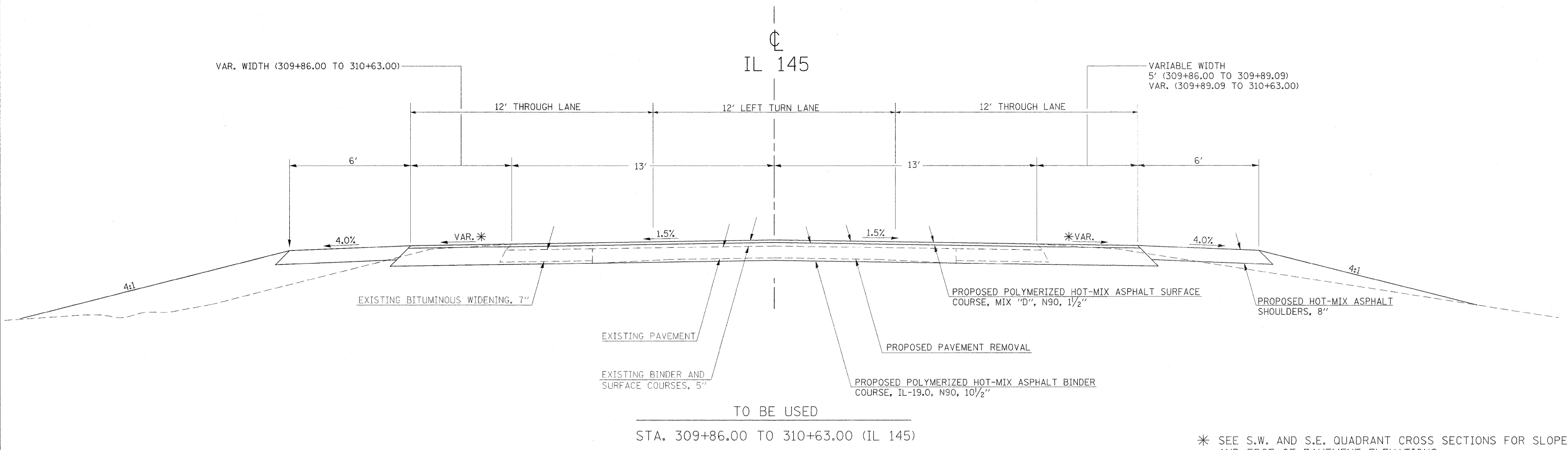
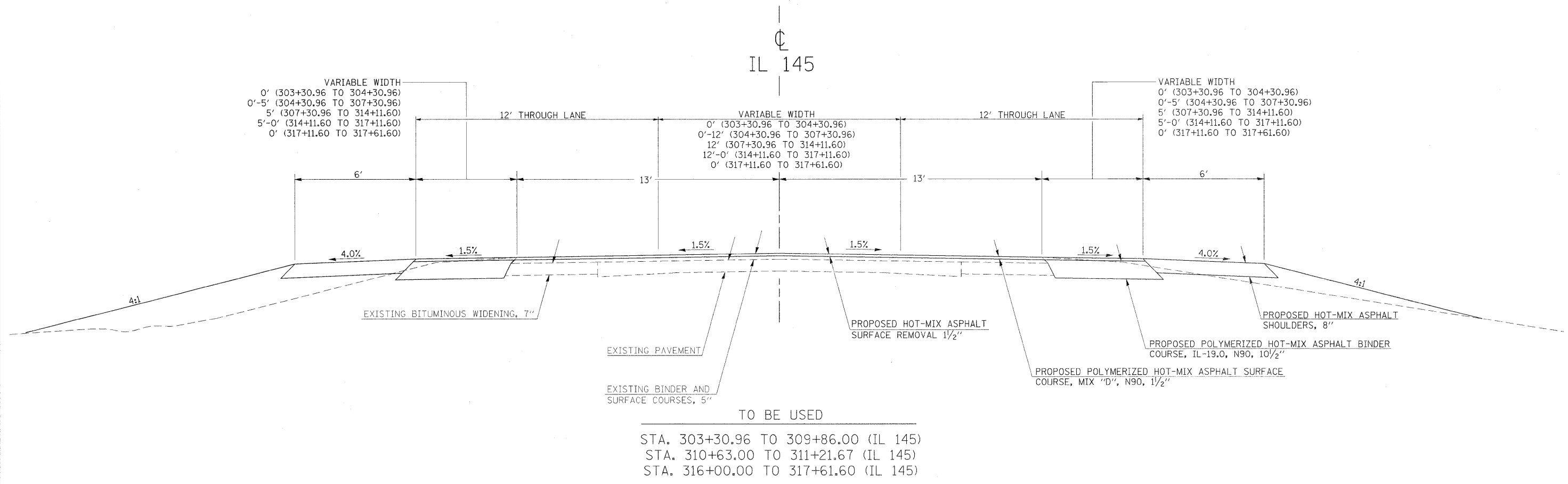
* SPECIALTY ITEM

FILE NAME =	USER NAME = nnaasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES (CONTINUED)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pvc\work\pvc\dot\nnaasdp\d0125145\d978115.sht.msc.dgn	DRAWN -	REVISED -	132			102 (N,L)	MASSAC	79	5	
PLOT SCALE = 40,0000' / 1" IN.	CHECKED -	REVISED -	CONTRACT NO. 78116							
PLOT DATE = 12/20/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO. OF SHEETS STA.					

SUMMARY OF QUANTITIES (CONTINUED)

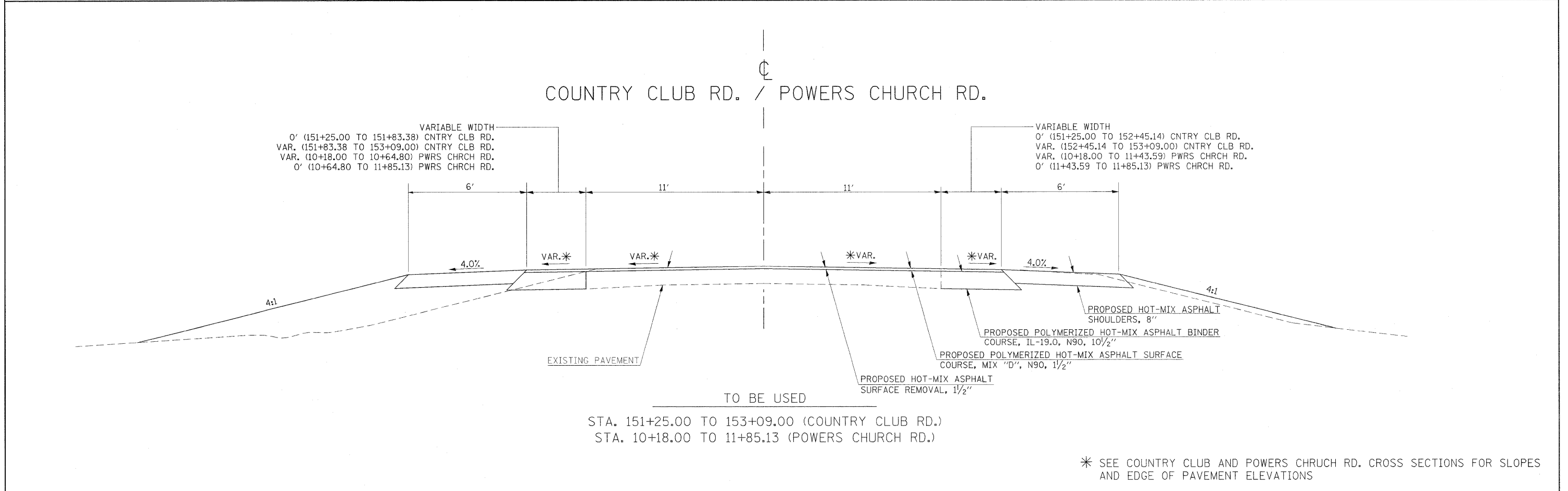
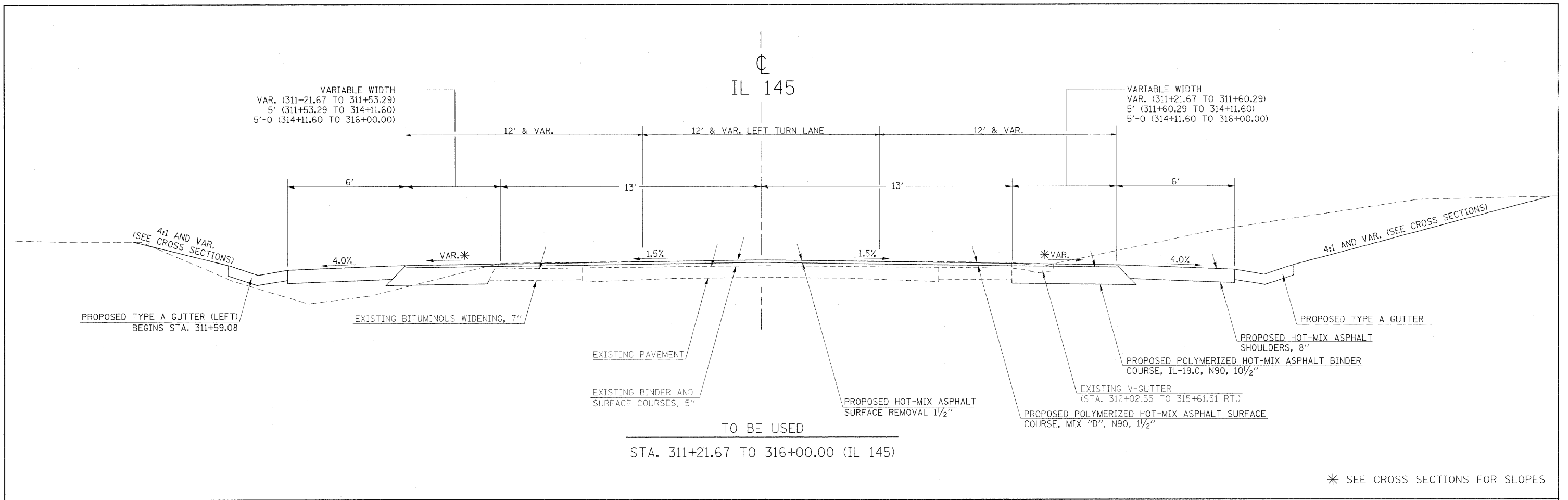
CODE NO.	ITEM	CONST. TYPE CODE 0021	
		UNIT	TOTAL QUANTITIES 90% FED 10% STATE
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
* 81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	127
* 81603000	UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	320
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	140
* 82103900	LUMINAIRE, SODIUM VAPOR, MULT-MOUNT, 250 WATT	EACH	4
* 82500300	LIGHTING CONTROLLER, POLE MOUNTED, 240VOLT, 30 AMP	EACH	1
* 83062730	LIGHT POLE, WEATHERING STEEL, 45 FT. M. H., TENON MOUNT	EACH	2
* 83062735	LIGHT POLE, WEATHERING STEEL, 45 FT. M. H., TENON MOUNT - TWIN	EACH	1
* 83600357	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8" X 8'	EACH	3
* 83800650	BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN	EACH	12

* SPECIALTY ITEM



* SEE S.W. AND S.E. QUADRANT CROSS SECTIONS FOR SLOPES AND EDGE OF PAVEMENT ELEVATIONS

FILE NAME =	USER NAME = nneasp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION - IL 145	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pw_wcrk\pwidot\nneasp\d0125145\d978115.sht_misc.dgn	5.sht_misc.dgn	DRAWN -	REVISED -			132	102 (N.L)	MASSAC	79	7	
PLOT SCALE = 2.5000' / IN.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 78116					
PLOT DATE = 12/14/2010	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					



FILE NAME =	USER NAME = naasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION - IL 145 ; COUNTRY CLUB RD./POWERS CHURCH RD.	F.A.P. RTE. 132	SECTION 102 (N,L)	COUNTY MASSAC	TOTAL SHEETS 79	SHEET NO. 8	
c:\pw_work\pwidot\naasdp\d0125145\d978115_sht_misc.dgn	PLOT SCALE = 2,5000' / IN.	DRAWN -	REVISED -			CONTRACT NO. 78116					
	PLOT DATE = 12/14/2010	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -								

REMOVAL SCHEDULE

LOCATION STATION TO STATION	HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"	PAVEMENT REMOVAL	GUTTER REMOVAL	PIPE CULVERT REMOVAL	STORM SEWER REMOVAL 12"	STORM SEWER REMOVAL 18"	REMOVE EXISTING FLARED END SECTION	REMOVE EXISTING JUNCTION BOX	GUARDRAIL REMOVAL	CONCRETE REMOVAL SPECIAL	REMARKS
	(SQ YD)	(SQ YD)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(FOOT)	(SQ YD)	
IL 145											
303+30.96 TO 309+86.00	1892										
309+35.63, 21.58' RT. (IL 145) TO 10+99.63, 20.65' RT. (PWRS CHRCH RD.)									176		
309+48.02, 22.67' LT. (IL 145) TO 152+45.23, 14.57' RT. (CNTRY CLB RD.)									166		
309+86.00 TO 310+63.00		303									
310+32.90, 39.60' RT. TO 310+42.42, 32.44' LT.										136	REMOVAL OF EXISTING BOX CULVET TOP
310+63.00 TO 317+61.60	2018										
311+79.00, RT.				49							
312+02.55, 23.00' RT. TO 315+61.51, 13.90' RT.			359								
312+16.00, LT.				52							
316+76.72, LT.							1				
316+76.72, RT.							1				
COUNTRY CLUB RD.											
151+25.00 TO 153+14.07	482										
151+62.00, LT.				49							
152+91.05, 25.53' RT. TO 152+90.89, 25.39' LT.						51					
POWERS CHURCH RD.											
10+13.14 TO 11+85.13	376										
10+33.83, 27.77' TO 10+37.54, 19.91' LT.					9						
10+37.51, 23.13' RT. TO 10+37.54, 19.91' LT.						43					
10+37.78, 19.42' LT.								1			
10+38.97, LT. TO 11+16.65, LT.					35						
TOTALS	4769	303	359	150	43	94	2	1	342	136	

EARTHWORK SCHEDULE

LOCATION STATION TO STATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
IL 145						
303+30.96 TO 309+89.09, RT.			53	40	796	-756
311+51.42 TO 317+61.60, RT.			1959	1469	12	1457
303+30.96 TO 309+47.83, LT.			60	45	641	-596
311+53.29 TO 317+61.60, LT.			214	161	101	60
309+86 TO 310+58		1368		1026		1026
COUNTRY CLUB RD.						
151+25.00 TO 151+90.97 (LEFT)			2	2	4	-3
151+25.00 TO 152+45.14 (RIGHT)			5	4	154	-150
152+11 TO 152+90 (RIGHT)	82					
POWERS CHURCH RD.						
11+36.11 TO 11+85.13 (RIGHT)			11	8	8	0
10+64.80 TO 11+85.13 (LEFT)			12	9	0	9
NORTHWEST QUADRANT						
0+00.00 TO 1+50.00			19	14	174	-160
NORTHEAST QUADRANT						
0+00.00 TO 1+00.00			15	11	43	-32
SOUTHWEST QUADRANT						
0+00.00 TO 1+50.00			207	155	257	-102
SOUTHEAST QUADRANT						
0+00.00 TO 1+50.00			20	15	306	-291
0+60 TO 1+30	106					
TOTALS	188	1368	2577	2959	2496	463

25% SHRINKAGE FACTOR FOR EARTH AND STRUCTURE EXCAVATION
ALL CHANNEL EXCAVATION TO BE WASTED

FILE NAME =	USER NAME = noasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES (REMOVAL, EARTHWORK)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cd:\pwork\pwidot\noasdp\d0125145\d978115.sht_mtscdgn		DRAWN -	REVISED -			132	102 (N.L)	MASSAC	79	9	
PLOT SCALE = 40,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 78116					
PLOT DATE = 12/14/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

RESURFACING SCHEDULE

LOCATION STATION TO STATION	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX "D", N90, 1 1/2" (TON)	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE IL-19.0, N90, 10 1/2" (TON)	AGGREGATE PRIME COAT (TON)	POLYMERIZED BITUMINOUS MATERIALS PRIME COAT (GALLON)	TEMPORARY RAMP (SQ YD)	HOT-MIX ASPHALT SHOULDER 8" (SQ YD)	INCIDENTAL HOT-MIX ASPHALT SURFACING (TON)	AGG. SHOULDER TYPE B (TON)	STRIP REFLECTIVE CRACK CONTROL TREATMENT (FOOT)	REMARKS
IL 145										
303+30.96					13					5' RAMP LENGTH
303+30.96 TO 317+61.60		744	6	372						
303+30.96 TO 307+30.93	106									
303+30.96 TO 309+42.16 LT.						407				
303+30.96 TO 309+89.09 RT.						439				
304+30.96 TO 317+11.60									2561	APPLIED EACH SIDE
307+30.96 TO 314+11.60	229									
309+89.09 RT. (IL 145) TO 11+43.59 RT. (PWRS. CHRCH RD.)						105				SOUTHEAST RADIUS
309+42.16 LT. (IL 145) TO 152+45.14 RT. (CNTRY. CLB. RD.)						104				SOUTHWEST RADIUS
311+53.29 TO 317+61.60 LT.						406				
311+77.82 RT.								2		PRIVATE ENTRANCE RT.
311+60.29 TO 317+61.60 RT.						401				
312+16.92 LT.								4		PRIVATE ENTRANCE LT.
314+11.60 TO 317+61.60	95									
316+26.26 RT.							2			PRIVATE ENTRANCE RT.
316+35.00 LT.							1			PRIVATE ENTRANCE LT.
317+61.60					13					5' RAMP LENGTH
COUNTRY CLUB RD.										
151+25.00					12					5' RAMP LENGTH
151+25.00 TO 153+09.00	63	177	1	44						INCLUDES TURN LANES
151+25.00 TO 152+45.14 RT.						80				
151+25.00 TO 151+83.38 LT.						39				
151+63.00 LT.								2		PRIVATE ENTRANCE LT.
151+83.38 LT. (CNTRY. CLB. RD.) TO 311+53.29 LT. (IL 145)						105				NORTHWEST RADIUS
POWERS CHURCH RD.										
10+18.00 TO 11+85.13	53	129	1	40						INCLUDES TURN LANES
10+64.80 LT. TO 11+85.13 LT.						80				
10+64.80 LT. (PWRS. CHRCH. RD.) TO 311+60.29 RT. (IL 145)										
11+00.00 LT.								2		NORTHEAST RADIUS
11+43.59 TO 11+85.13 RT.						28				PRIVATE ENTRANCE LT.
11+65.00 LT.								3		PRIVATE ENTRANCE LT.
11+85.13					12					
TOTALS	547	1050	8	456	51	2193	3	12	2561	

DETOUR SIGNING

SIGN ID NO.	DESCRIPTION	SIGN SIZE	AREA PER SIGN (SQ FT)	NUMBER REQUIRED EACH WAY		TOTAL SIGNS REQUIRED	SIGN PANEL TYPE 1 (0-9) (SQ FT)	SIGN PANEL TYPE 2 (9-24) (SQ FT)	
				NORTH/SOUTH					
M6-1	→	21" X 15"	2.188	NORTH	3	6	13.13		
				SOUTH	3				
M6-2R	↗	21" X 15"	2.188	NORTH	2	4	8.75		
				SOUTH	2				
M6-3	↑	21" X 15"	2.188	NORTH	1	1	2.19		
				SOUTH					
M1-4	IL ROUTE 145	24" X 24"	4.000	NORTH	6	11	44.00		
				SOUTH	5				
R3-2L	↖	24" X 24"	4.000	NORTH	1	1	4.00		
				SOUTH					
R3-1R	↘	24" X 24"	4.000	NORTH	1	1	4.00		
				SOUTH					
W20-2	DETOUR AHEAD	48" X 48"	16.000	NORTH	2	3		48.00	
				SOUTH	1				
M4-8	DETOUR	12" X 24"	2.000	NORTH	6	11	22.00		
				SOUTH	5				
W20-3	ROAD CLOSED AHEAD	48" X 48"	16.000	NORTH	2	2		32.00	
				SOUTH					
R11-3A	ROAD CLOSED 13 MILES AHEAD LOCAL TRAFFIC ONLY	60" X 30"	12.500	NORTH		1		12.50	
				SOUTH	1				
R11-3A	ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY	60" X 30"	12.500	NORTH	1	1		12.50	
				SOUTH					
TOTALS							98	105	

FILE NAME =	USER NAME = nnaasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES (RESURFACING, DETOUR SIGNING)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\pwidot\naasdp\d0125145\d97811	e_sht_misc.dgn	DRAWN -	REVISED -			132	102 (N,L)	MASSAC	79	10	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 78116					
PLOT DATE = 12/14/2010	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					

SEEDING AND EROSION CONTROL

LOCATION STATION TO STATION	SEEDING CLASS 1B	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH METHOD 2.00	AGRICULTURAL GROUND LIMESTONE	EROSION CONTROL BLANKET	SEEDING CLASS 7	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION (EACH)
	(ACRE)	(POUND)	(POUND)	(POUND)	(ACRE)	(TON)	(SQ YD)	(ACRE)	(FOOT)	
303+30.96, RT. (IL 145) TO 11+85.13, RT. (PWRS CHRCH RD.)	0.37	59	44	44	0.74	0.7	1780	0.37		
303+30.96, LT. (IL 145) TO 151+25.00, RT. (CNTRY CLB RD.)	0.37	60	45	45	0.74	0.7	1802	0.37		
151+25.00, LT. (CNTRY CLB RD.) TO 317+61.60, LT. (IL 145)	0.22	35	26	26	0.44	0.4	1057	0.22		
11+85.13, LT. (PWRS CHRCH RD.) TO 317+61.60, RT. (IL 145)	0.32	51	38	38	0.63	0.6	1536	0.32		
IL 145										
304+00 LT.									12	
305+00 RT.									12	
305+50 LT.									12	
306+50 LT.									12	
307+50 LT.									12	
308+50 LT.									12	
309+86 LT.									12	
316+76, 35' RT.										1
316+86 LT.									12	
COUNTRY CLUB RD.										
151+87, 25' LT.										1
POWERS CHURCH RD.										
10+47, 35' LT.										1
11+22, 20' LT.										1
11+45 RT.									12	
TOTALS	1.28	204	153	153	2.55	2.55	6175	1.28	108	4

DRAINAGE

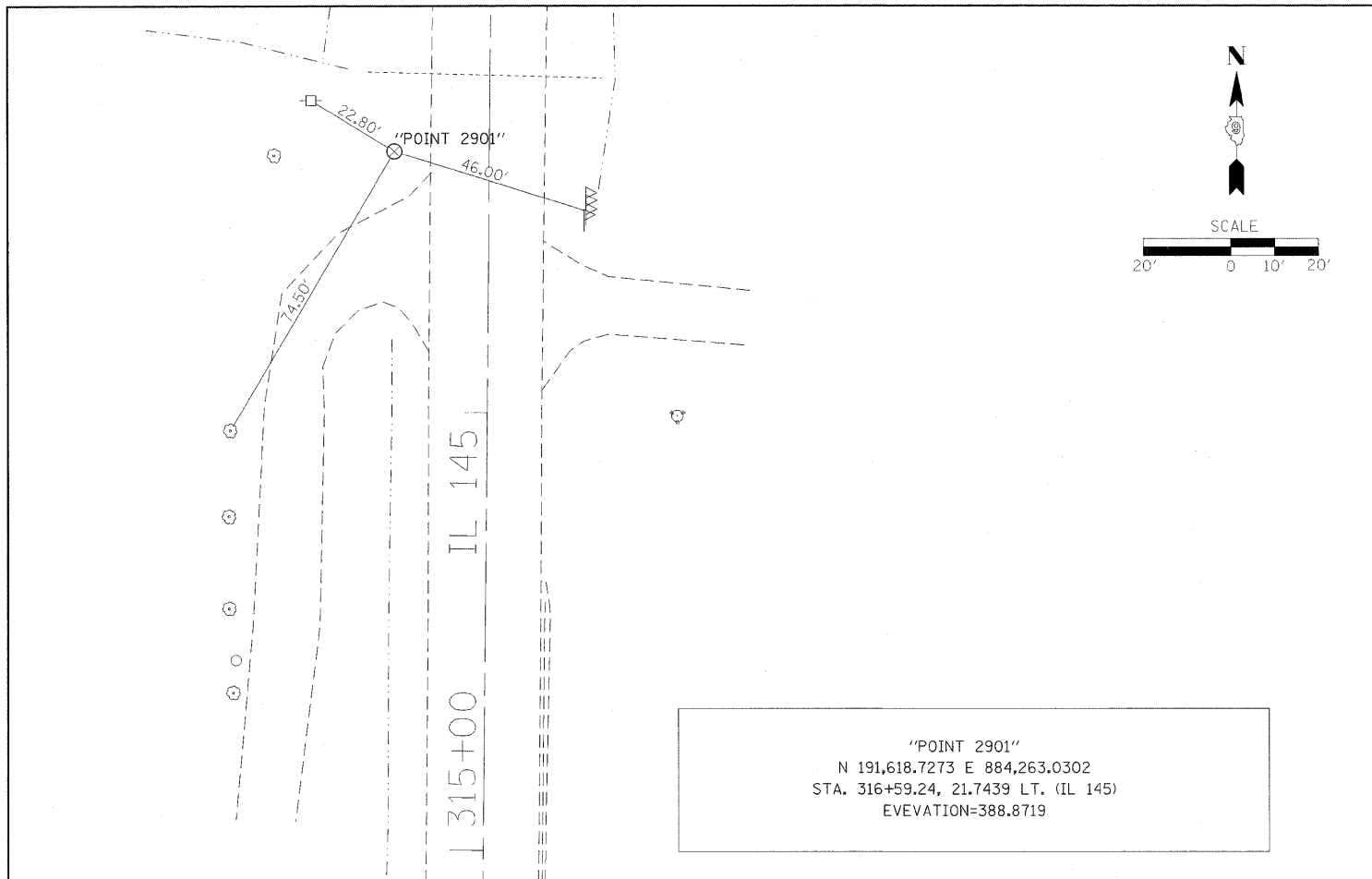
LOCATION STATION TO STATION	PIPE CULVERT CLASS A TYPE 1 12" (FOOT)	PIPE CULVERT CLASS A TYPE 1 18" (FOOT)	PRECAST REINFORCED CONCRETE FLARED END SEC 12" (EACH)	PRECAST REINFORCED CONCRETE FLARED END SEC 18" (EACH)	STORM SEWER CLASS A TYPE 1 12" (FOOT)	STORM SEWER CLASS A TYPE 2 24" (FOOT)	CONCRETE COLLAR (CU YD)	TRENCH BACKFILL (CU YD)	INLET SPECIAL TYPE 3 6' (EACH)	CONCRETE GUTTER TYPE A (FOOT)	PROTECTIVE COAT (SQ YD)	STONE RIP RAP CLASS A5 (TON)	REMARKS
IL 145													
310+98.21 TO 316+00.00 RT.										505	204		
311+21.08 TO 316+00.00 LT.										485	205		
316+76.72, 32.06' LT. TO 316+76.72, 25.91' LT.				1									
316+76.72, 25.91' LT. TO 316+76.72, 21.77' LT.		4											
316+76.72, 21.77' LT.							0.32						
316+76.72, 19.33' RT.							0.32						
316+76.72, 19.33' RT. TO 316+76.72, 25.98' RT.		7											
316+76.72, 25.98' RT. TO 316+76.72, 32.08' RT.				1									
310+18, LT.												93	UPSTREAM END
309+91, 56' RT.												15	DOWNSTREAM END (SOUTH WINGWALL)
310+19, 91' RT.												19	DOWNSTREAM END (NORTH WINGWALL)
COUNTRY CLUB RD.													
151+39.00, 21.88' LT. TO 151+45.07, 22.25' LT.			1										
151+45.07, 22.25' LT. TO 151+77.93, 24.25' LT.	33												
152+72.32, 39.78' LT.													
152+73.27, 38.02' LT. TO 152+77.57, 47.65' RT.						88		15	1				
151+77.93, 24.25' LT. TO 151+84.00, 24.62' LT.			1										
POWERS CHURCH RD.													
10+43.16, 28.49' LT. TO 10+59.07, 45.69' RT.								14					
10+44.07, 30.07' LT.													
10+46.76, 28.21' LT. TO 11+13.71, 20.68' LT.					67				1				
11+13.71, 20.68' LT. TO 11+19.75, 20.00' LT.			1										
TOTALS	33	11	3	2	67	164	0.64	29	2	990	409	127	

PAVEMENT MARKING

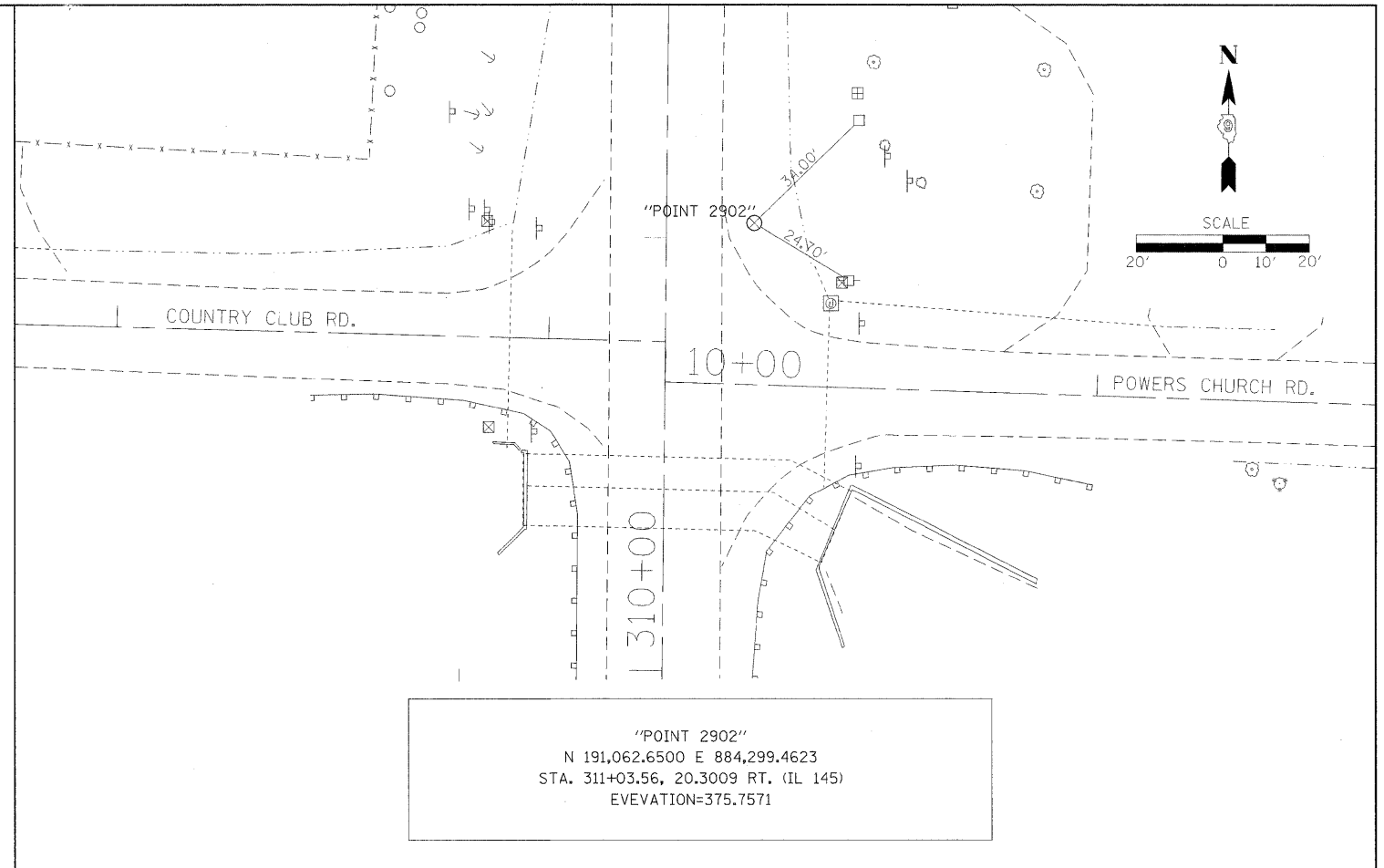
LOCATION STATION TO STATION	THERMOPLASTIC PAVEMENT MARKING						REMARKS
	LINE 4" (FOOT)			LINE 12"	LINE 24"	LETTERS & SYMBOLS	
	LT. EOP	C. L. & LANE LINES	RT. EOP	PAINTED ISLAND	(FOOT)	(FOOT)	
(IL 145)							
303+30.96 LT. TO 309+42.16 LT.	611						
303+30.96 RT. TO 309+89.09 RT.			658				
304+30.96 TO 309+10.96		1920					DOUBLE SOLID (LT AND RT)
304+57.50 TO 308+79.00					187		
309+10.96 LT. TO 310+36.80 LT.		252					DOUBLE SOLID
309+10.96 RT. TO 310+25.96 RT.		115					
309+42.16 LT. TO 152+45.14 RT. (CNTRY CLB RD.)	156					11.80	ONLY
309+89.09 RT. TO 11+43.59 RT. (PWRS CHRCH RD.)			157			8.80	SOUTHWEST RADIUS LEFT TURN ARROW
310+27.36 RT. TO 310+55.31 RT.				118	74		SOUTHWEST RADIUS (SOUTHWEST QUADRANT)
310+27.69 LT. TO 310+65.31 LT.				110	57		SOUTHWEST RADIUS (SOUTHWEST QUADRANT)
310+87.32 LT. TO 311+15.03 LT.				72	51		SOUTHWEST RADIUS (NORTHWEST QUADRANT)
311+16.60 LT. TO 312+31.60 LT.		115					
311+16.60 RT. TO 312+31.60 RT.		230					DOUBLE SOLID
311+53.29 LT. TO 317+61.60 LT.	608						
311+60.29 RT. TO 317+61.60 RT.			601			8.80	LEFT TURN ARROW
312+31.60 TO 317+11.60		1920				11.80	ONLY
312+62.00 TO 316+82.50					187		DOUBLE SOLID (LT AND RT)
(COUNTRY CLUB RD.)							
151+25.00 TO 152+81.50		39					
151+25.00 LT. TO 151+83.38 LT.	58						
151+83.38 LT. TO 311+53.29 LT. (IL 145)	158						
152+25.00 RT. TO 152+45.14 RT.			45				NORTHWEST RADIUS
152+81.50						11	STOP BAR
(POWERS CHRUCH RD.)							
10+45.00 TO 11+85.13		35					
10+45.00						16	STOP BAR
10+64.80 LT. TO 311+60.29 RT. (IL 145)	109						NORTHEAST RADIUS
10+64.80 LT. TO 11+85.13 LT.	120						
11+43.59 RT. TO 11+85.13 RT.			42				
0+52.00 (SOUTHWEST RADIUS)						12	STOP BAR
0+52.5 (NORTHWEST RADIUS)						12	STOP BAR
0+51.00 (SOUTHWEST RADIUS)						12	STOP BAR
SUBTOTALS	1820	4626	1504	300			
TOTALS		8250			555	63	41

RIGHT OF WAY MARKERS

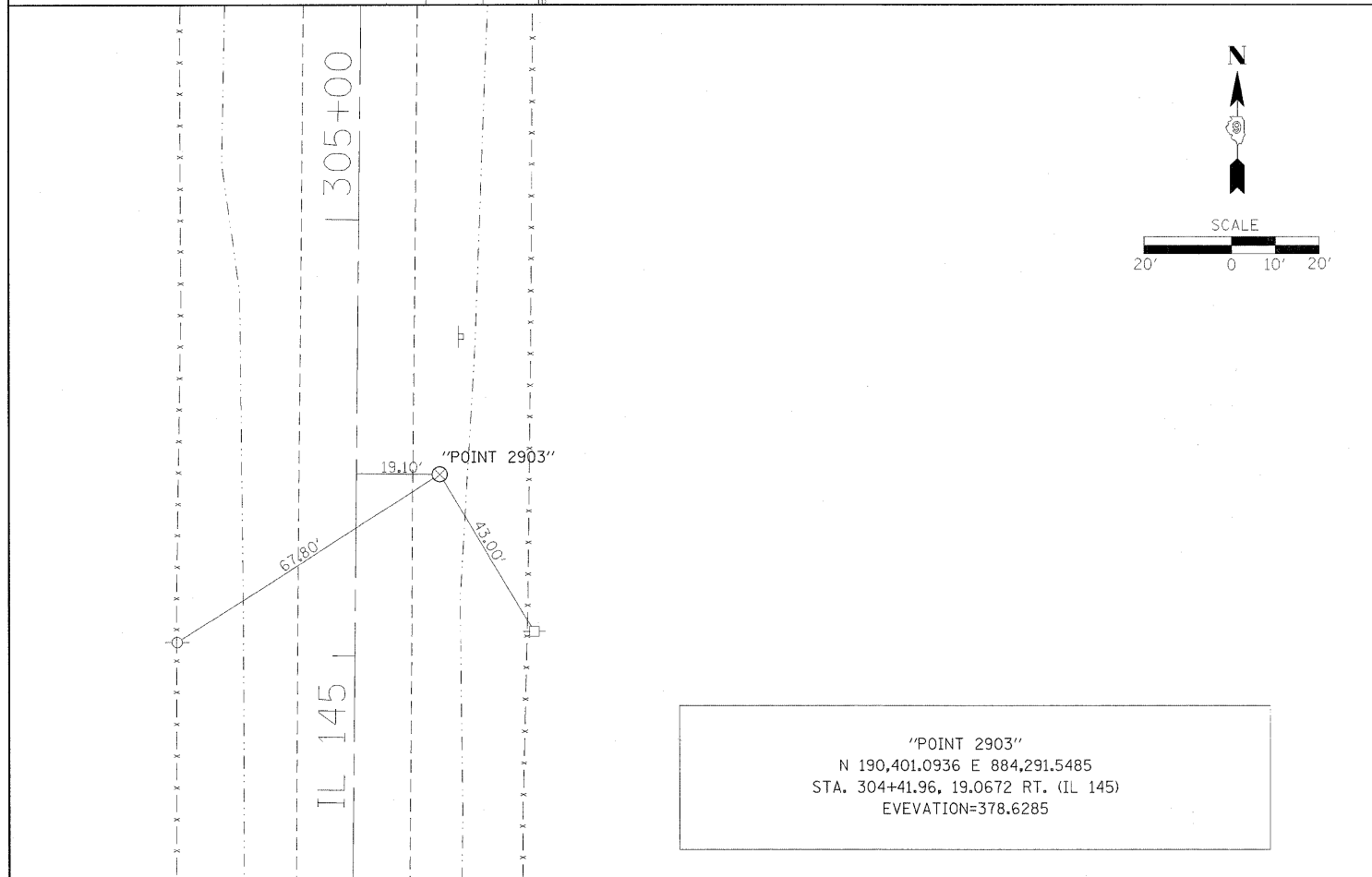
LOCATION STATION TO STATION	OFFSET (FEET)	LT. / RT.	FURNISHING AND ERECTING RIGHT OF WAY MARKERS (EACH)
IL 145			
317+75	40.0	L+	1
317+75	50.0	L+	1
316+40	40.0	L+	1
316+40	50.0	L+	1
311+50	40.0	L+	1
311+17.39	79.29	L+	1
309+50	85.0	L+	1
308+00	65.0	L+	1
308+00	85.0	L+	1
305+00	40.0	L+	1
305+00	65.0	L+	1
306+00	40.0	R+	1
306+00	55.0	R+	1
309+30	55.0	R+	1
309+30	150.0	R+	1
310+95.40	60.63	R+	1
311+25	40.0	R+	1
312+50	40.0	R+	1
312+50	60.0	R+	1
314+75	60.0	R+	1
316+00	40.0	R+	1
COUNTRY CLUB RD.			
151+26.54	25.0	L+	1
151+00	70.0	R+	1
151+90	70.0	R+	1
POWERS CHURCH RD.			
12+30.38	20.0	R+	1
11+97.48	20.0	L+	1
11+97.34	30.0	L+	1
TOTALS			27



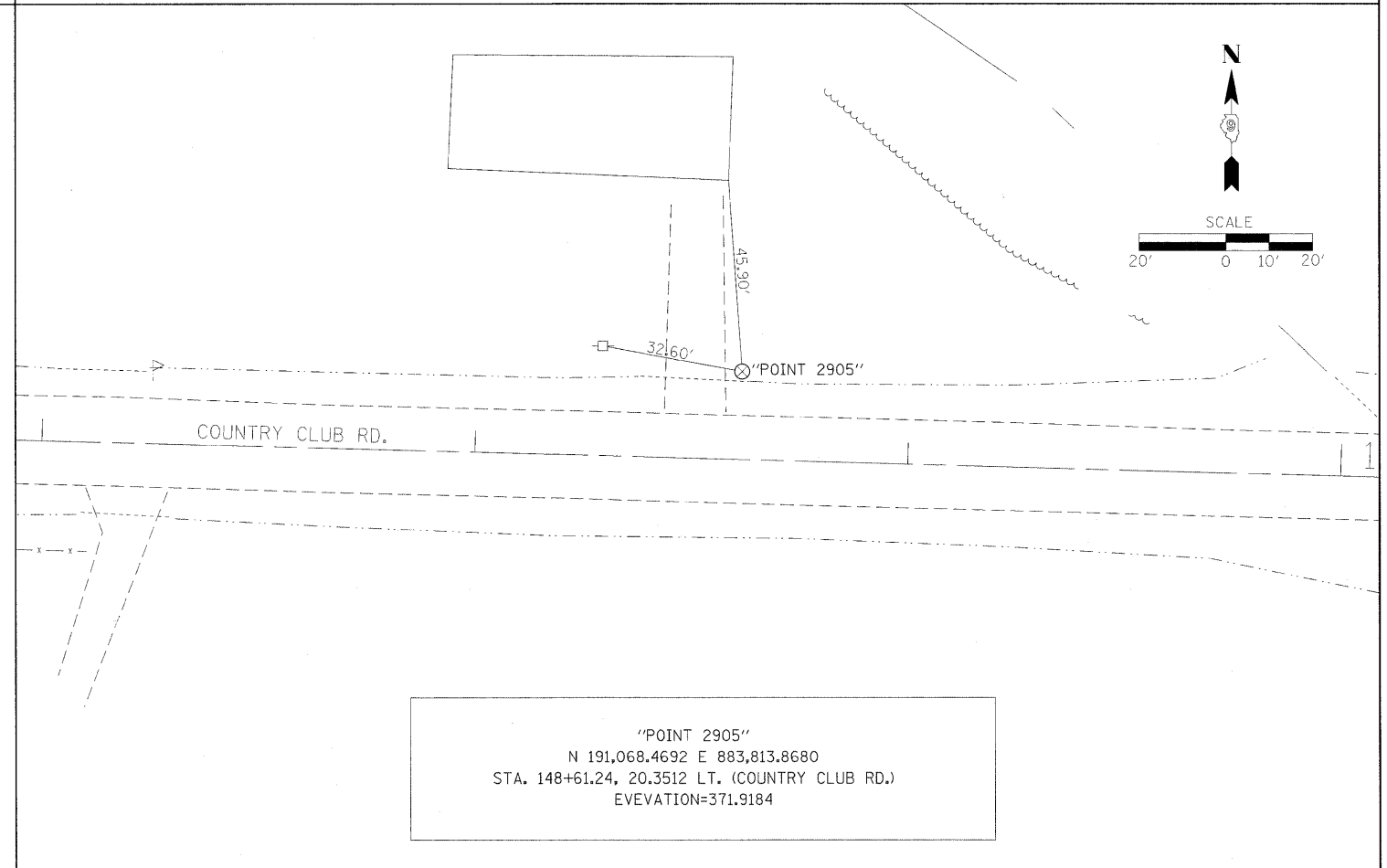
"POINT 2901"
 N 191,618.7273 E 884,263.0302
 STA. 316+59.24, 21.7439 LT. (IL 145)
 ELEVATION=388.8719



"POINT 2902"
 N 191,062.6500 E 884,299.4623
 STA. 311+03.56, 20.3009 RT. (IL 145)
 ELEVATION=375.7571



"POINT 2903"
 N 190,401.0936 E 884,291.5485
 STA. 304+41.96, 19.0672 RT. (IL 145)
 ELEVATION=378.6285

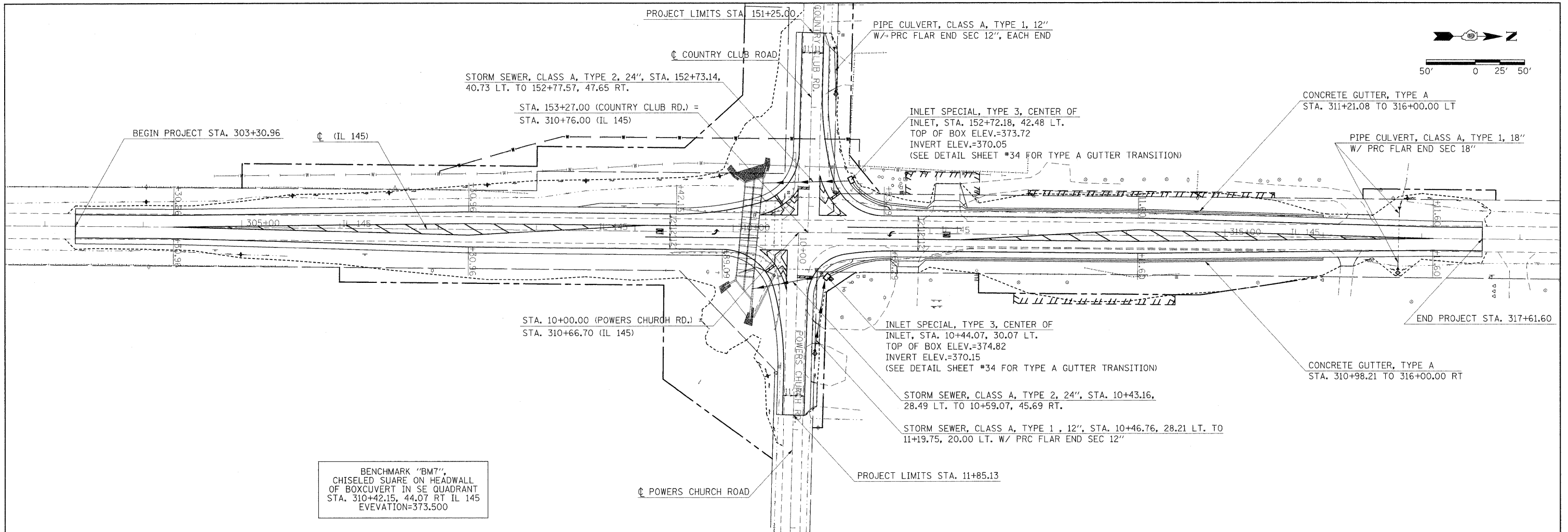


"POINT 2905"
 N 191,068.4692 E 883,813.8680
 STA. 148+61.24, 20.3512 LT. (COUNTRY CLUB RD.)
 ELEVATION=371.9184

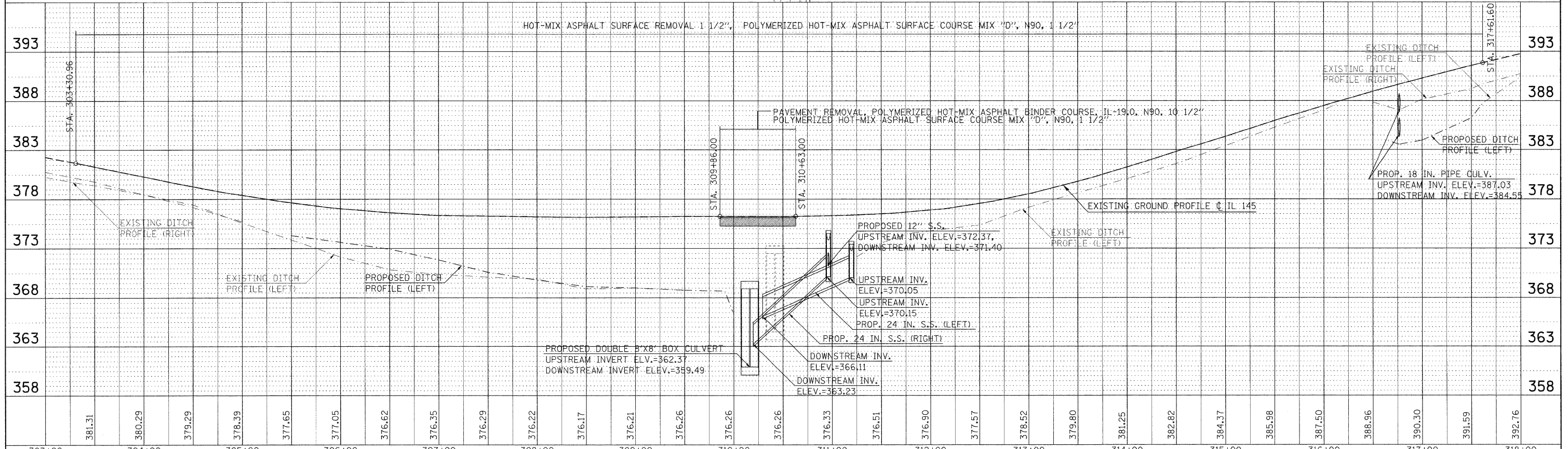
FILE NAME =	USER NAME = naesdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TIE POINTS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\naesdp\d3125145\d978115.sht.pln.dgn	PLLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -					132	102(IN,L)	MASSAC	79	13
PLLOT DATE = 12/14/2010	DATE -	CHECKED -	REVISED -					CONTRACT NO. 78116				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.			

PLAN	SURVEYED	DATE
	DESIGNED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	DESIGNED	
	CHECKED	
	BY	
	NO.	



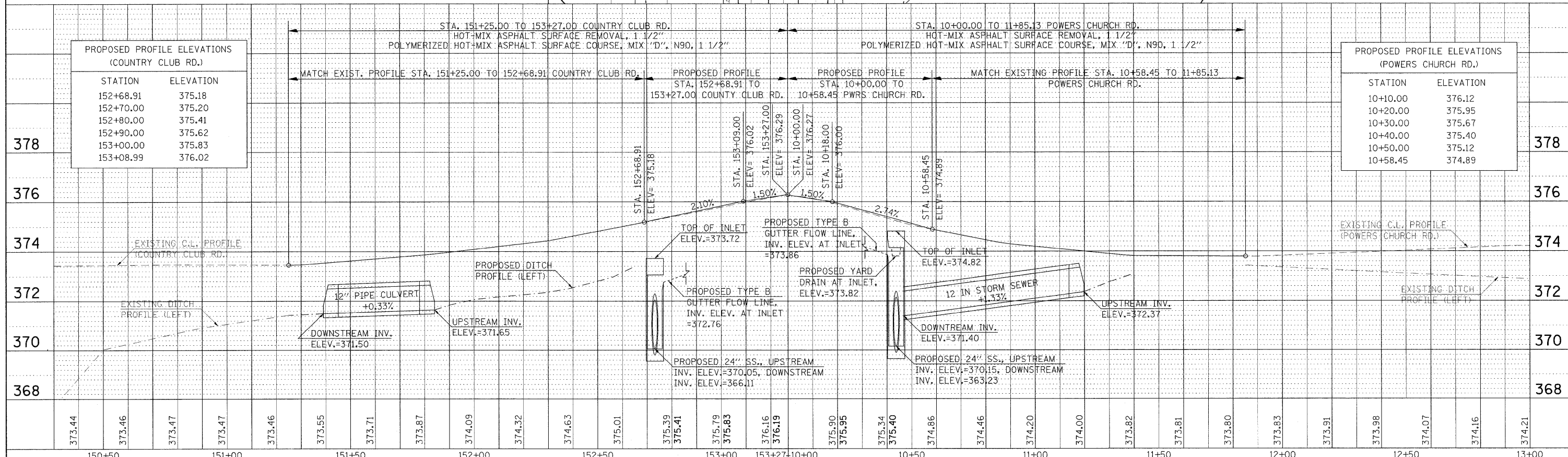
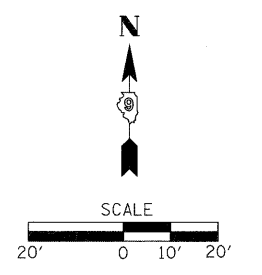
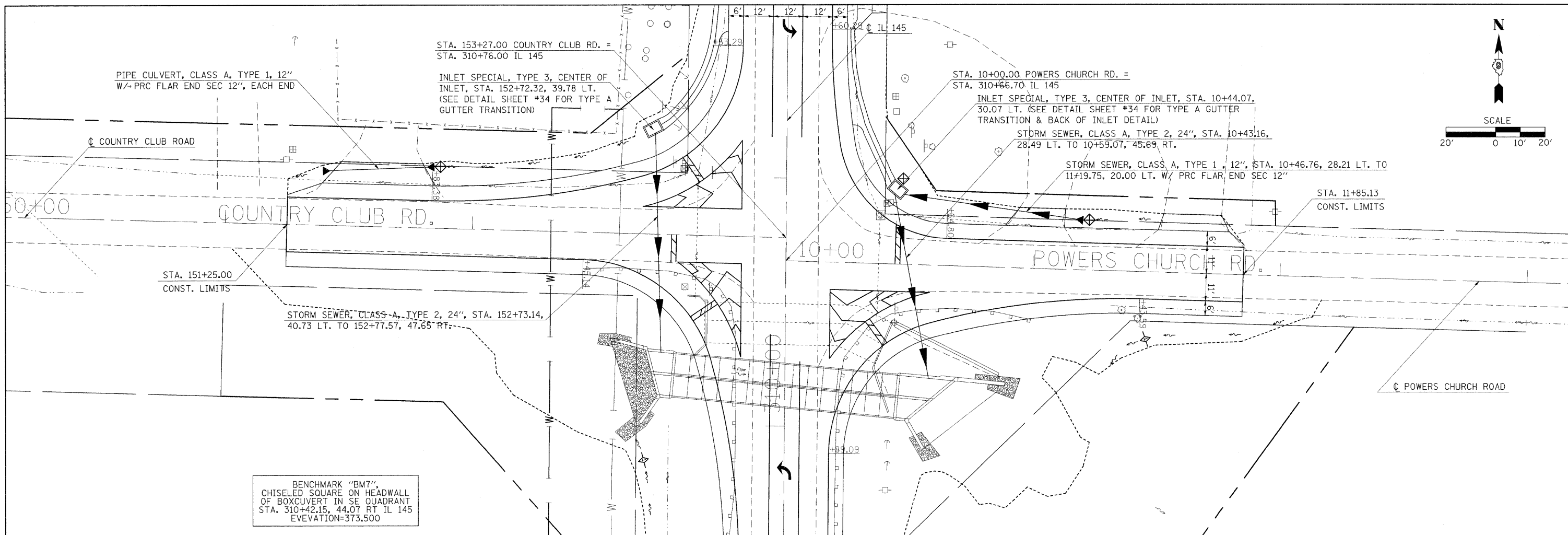
BENCHMARK "BM7",
CHISELED SQUARE ON HEADWALL
OF BOX-CULVERT IN SE QUADRANT
STA. 310+42.15, 44.07 RT IL 145
ELEVATION=373.500



FILE NAME =	USER NAME = naasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN / PROFILE SHEET IL 145	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw_work\pwwid\naasdp\0125145\d978116_sht_pln.dgn	PLT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			132	102(IN,L)	MASSAC	79	14
PLT DATE = 12/21/2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 78116				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 RT. OF WAY CHECKED: _____
 NO. _____
 CADD FILE NAME: _____

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 RT. OF WAY CHECKED: _____
 NO. _____
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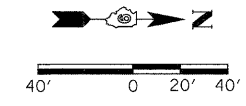


PROPOSED PROFILE ELEVATIONS (COUNTRY CLUB RD.)

STATION	ELEVATION
152+68.91	375.18
152+70.00	375.20
152+80.00	375.41
152+90.00	375.62
153+00.00	375.83
153+08.99	376.02

PROPOSED PROFILE ELEVATIONS (POWERS CHURCH RD.)

STATION	ELEVATION
10+10.00	376.12
10+20.00	375.95
10+30.00	375.67
10+40.00	375.40
10+50.00	375.12
10+58.45	374.89



HOT-MIX ASPHALT REMOVAL LIMITS
STA. 151+25.00

HOT-MIX ASPHALT REMOVAL LIMITS
STA. 303+30.96

GUARDRAIL REMOVAL, STA. 309+48.02, 22.67' LT. (IL 145)
TO STA. 152+45.23, 14.57' RT. (C.C. RD.)

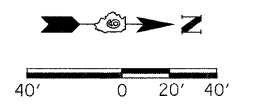
PAVEMENT REMOVAL, STA. 309+86 TO 310+63

GUARDRAIL REMOVAL, STA. 309+35.63, 21.58' RT. (IL 145)
TO STA. 10+99.63, 20.65' RT. (P.C. RD.)

HOT-MIX ASPHALT REMOVAL LIMITS
STA. 11+85.13

LEGEND

	HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"
	PAVEMENT REMOVAL
	CONCRETE REMOVAL SPECIAL



PIPE CULVERT REMOVAL STA. 151+62 LT.

STORM SEWER REMOVAL 18", STA. 152+91.05, 25.53' RT. TO 152+90.89, 25.39' LT.

PIPE CULVERT REMOVAL STA. 312+16 LT.

REMOVE EXISTING FLARED END SECTION
STA. 316+76.72, LT. & RT.

HOT-MIX ASPHALT REMOVAL LIMITS
STA. 317+61.60

PIPE CULVERT REMOVAL STA. 311+79 RT.

GUTTER REMOVAL, STA. 312+02.55 TO STA. 315+61.51 RT.

STORM SEWER REMOVAL 12", STA. 10+33.83, 27.77' TO 10+37.54, 19.91' RT.

JUNCTION BOX REMOVED, STA. 10+37.78, 19.42' LT.

STORM SEWER REMOVAL 18", STA. 10+37.54, 19.91' LT. TO 10+37.51, 23.13' RT.

STORM SEWER REMOVAL 12", STA. 10+38.97 TO 11+16.65' LT.

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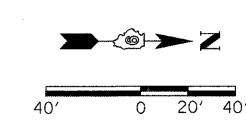
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102(INL)	MASSAC	79	16
				CONTRACT NO. 78116
ILLINOIS FED. AID PROJECT				



PROPOSED HOT-MIX ASPHALT SURFACING LIMITS
STA. 151+25.00



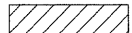
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STA. 303+30.96

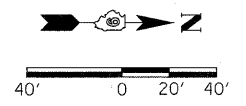
300+00

305+00

PROPOSED HOT-MIX ASPHALT SURFACING LIMITS
STA. 11+85.13

LEGEND

-  POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX D, N90, 1 1/2"
-  POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX D, N90, 1 1/2"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE IL-19.0, N90, 1 1/2"
-  HOT-MIX ASPHALT SHOULDER, 8"



PROPOSED HOT-MIX ASPHALT SURFACING LIMITS
STA. 317+61.60

320+00

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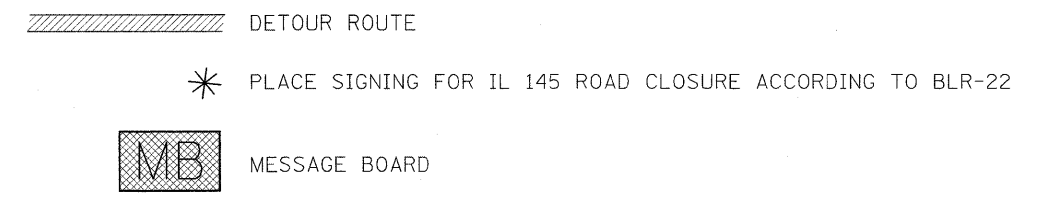
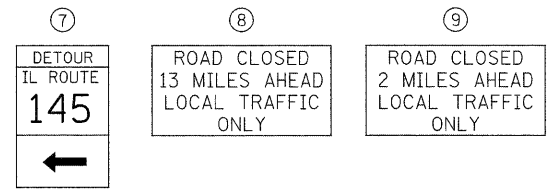
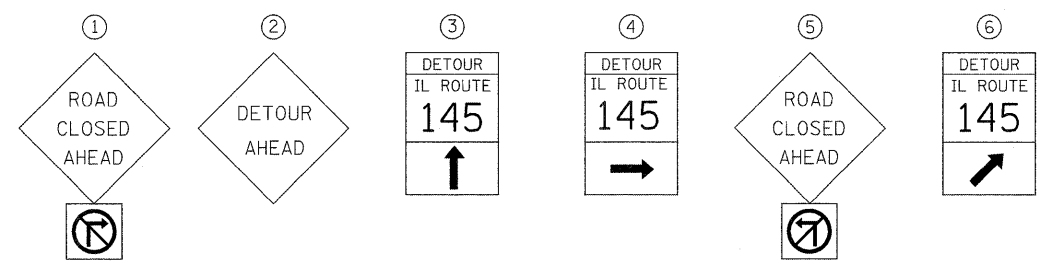
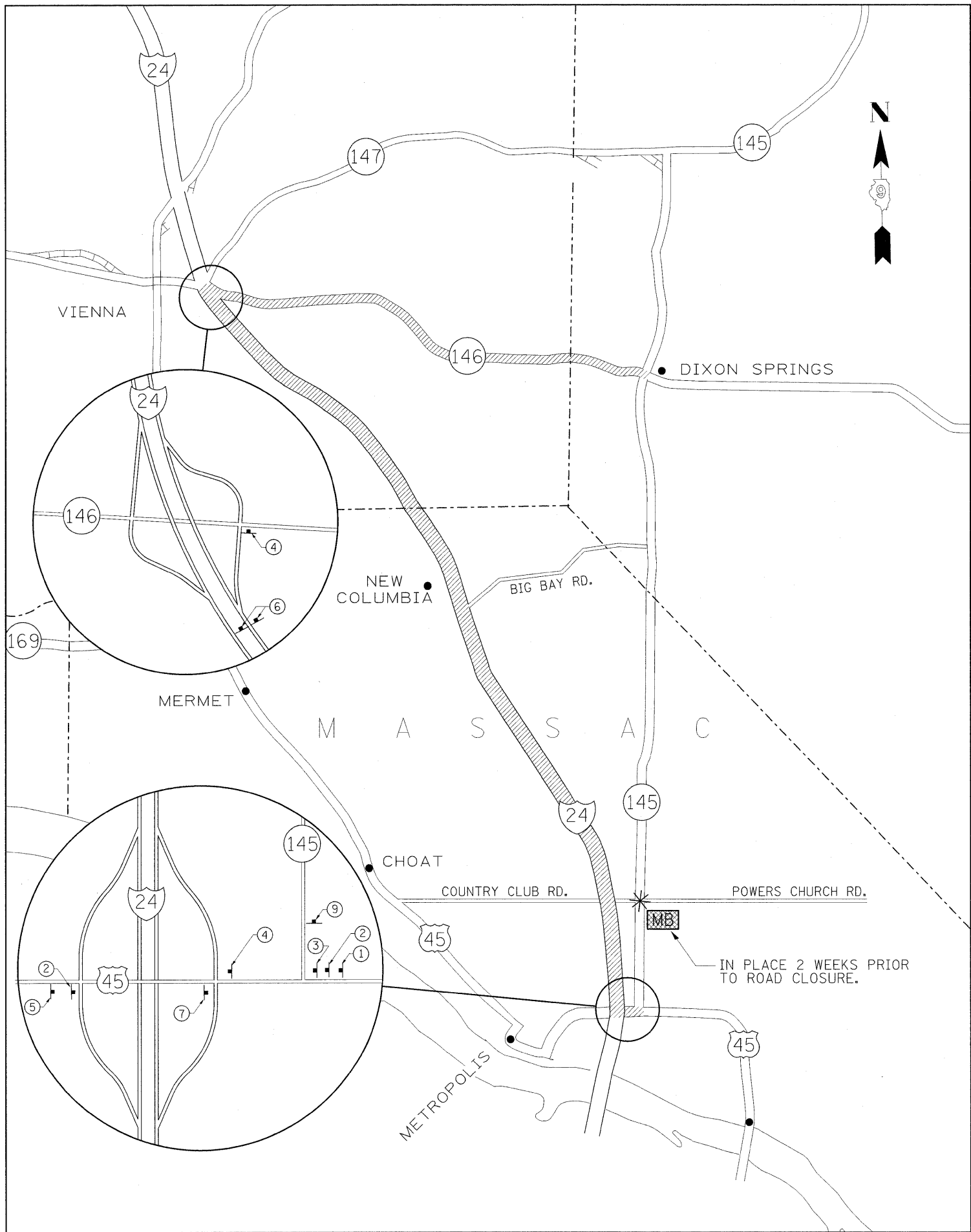
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION SHEET

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102(INL)	MASSAC	79	17
				CONTRACT NO. 78116
ILLINOIS FED. AID PROJECT				



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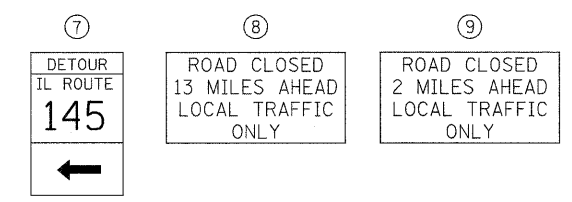
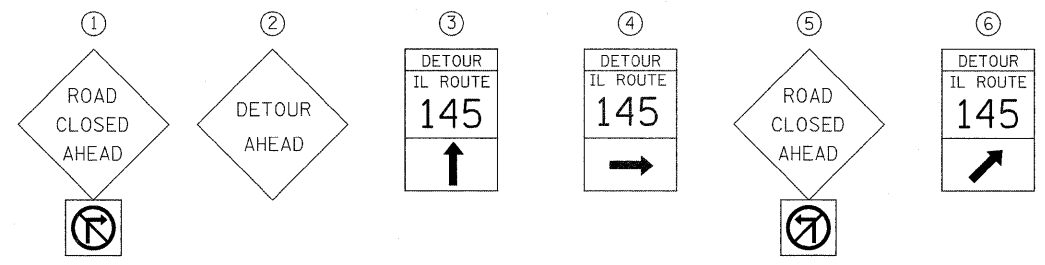
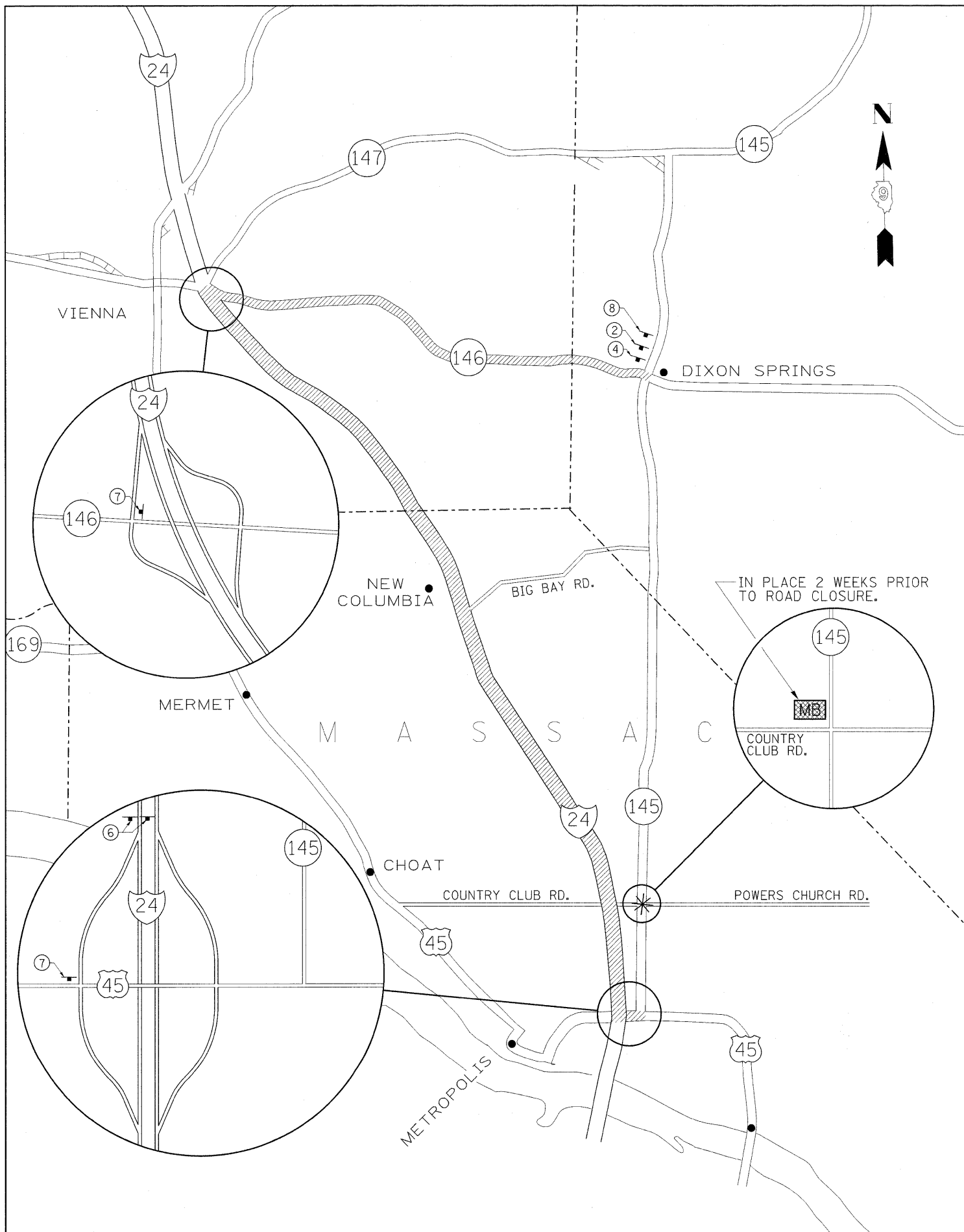
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETOUR SHEET (NORTHBOUND)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102(N,L)	MASSAC	79	18
CONTRACT NO. 78116				
ILLINOIS FED. AID PROJECT				

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



- DETOUR ROUTE
- PLACE SIGNING FOR IL 145 ROAD CLOSURE ACCORDING TO BLR-22
- MESSAGE BOARD

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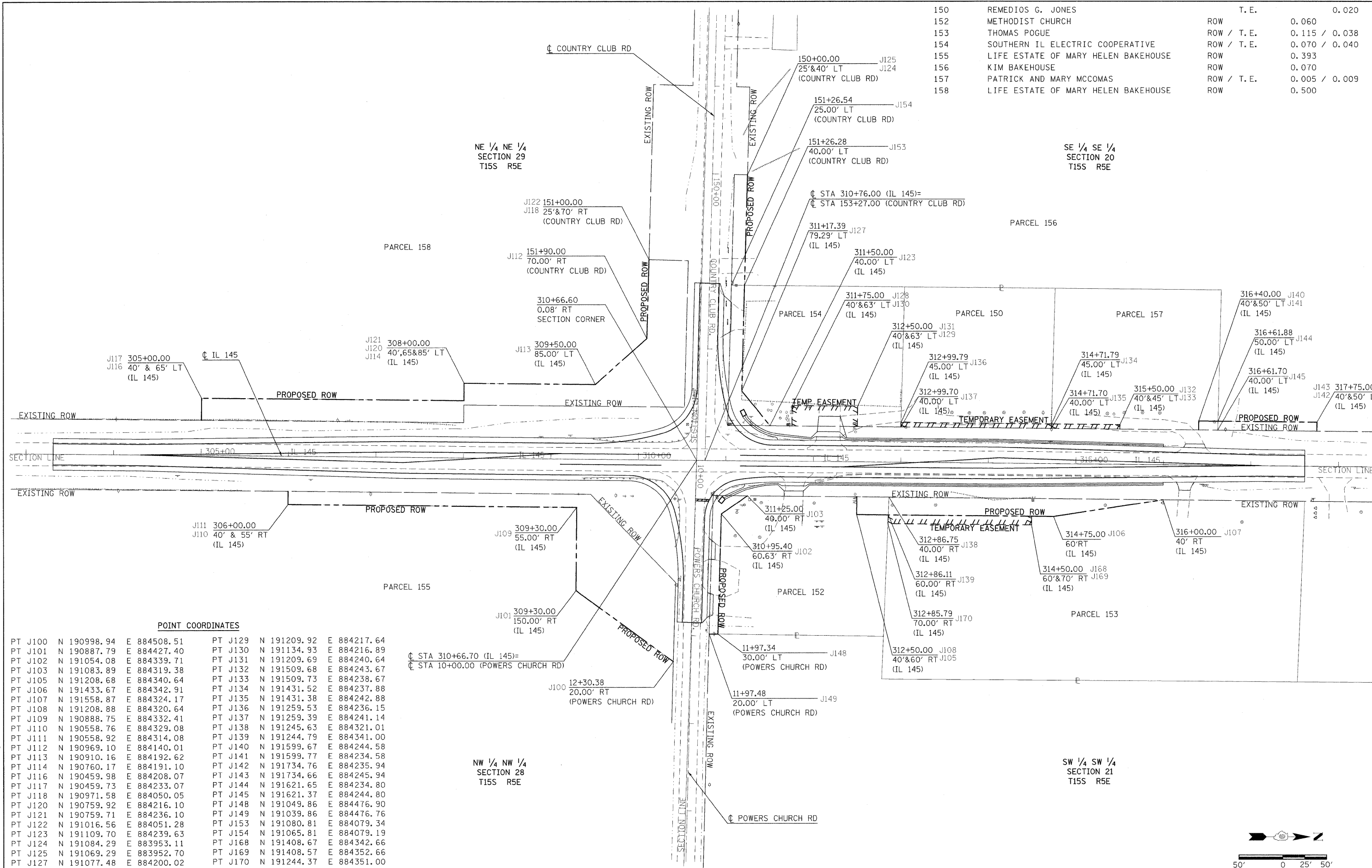
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SHEET (SOUTHBOUND)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102(N,L)	MASSAC	79	19
				CONTRACT NO. 78116
ILLINOIS FED. AID PROJECT				

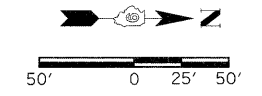
PARCEL NO.	PROPERTY OWNER	PURPOSE	ACREAGE
150	REMEDIOS G. JONES	T. E.	0.020
152	METHODIST CHURCH	ROW	0.060
153	THOMAS POGUE	ROW / T. E.	0.115 / 0.038
154	SOUTHERN IL ELECTRIC COOPERATIVE	ROW / T. E.	0.070 / 0.040
155	LIFE ESTATE OF MARY HELEN BAKEHOUSE	ROW	0.393
156	KIM BAKEHOUSE	ROW	0.070
157	PATRICK AND MARY MCCOMAS	ROW / T. E.	0.005 / 0.009
158	LIFE ESTATE OF MARY HELEN BAKEHOUSE	ROW	0.500



POINT COORDINATES

PT J100	N	190998.94	E	884508.51	PT J129	N	191209.92	E	884217.64
PT J101	N	190887.79	E	884427.40	PT J130	N	191134.93	E	884216.89
PT J102	N	191054.08	E	884339.71	PT J131	N	191209.69	E	884240.64
PT J103	N	191083.89	E	884319.38	PT J132	N	191509.68	E	884243.67
PT J105	N	191208.68	E	884340.64	PT J133	N	191509.73	E	884238.67
PT J106	N	191433.67	E	884342.91	PT J134	N	191431.52	E	884237.88
PT J107	N	191558.87	E	884324.17	PT J135	N	191431.38	E	884242.88
PT J108	N	191208.88	E	884320.64	PT J136	N	191259.53	E	884236.15
PT J109	N	190888.75	E	884332.41	PT J137	N	191259.39	E	884241.14
PT J110	N	190558.76	E	884329.08	PT J138	N	191245.63	E	884321.01
PT J111	N	190558.92	E	884314.08	PT J139	N	191244.79	E	884341.00
PT J112	N	190969.10	E	884140.01	PT J140	N	191599.67	E	884244.58
PT J113	N	190910.16	E	884192.62	PT J141	N	191599.77	E	884234.58
PT J114	N	190760.17	E	884191.10	PT J142	N	191734.76	E	884235.94
PT J116	N	190459.98	E	884208.07	PT J143	N	191734.66	E	884245.94
PT J117	N	190459.73	E	884233.07	PT J144	N	191621.65	E	884234.80
PT J118	N	190971.58	E	884050.05	PT J145	N	191621.37	E	884244.80
PT J120	N	190759.92	E	884216.10	PT J148	N	191049.86	E	884476.90
PT J121	N	190759.71	E	884236.10	PT J149	N	191039.86	E	884476.76
PT J122	N	191016.56	E	884051.28	PT J153	N	191080.81	E	884079.34
PT J123	N	191109.70	E	884239.63	PT J154	N	191065.81	E	884079.19
PT J124	N	191084.29	E	883953.11	PT J168	N	191408.67	E	884342.66
PT J125	N	191069.29	E	883952.70	PT J169	N	191408.57	E	884352.66
PT J127	N	191077.48	E	884200.02	PT J170	N	191244.37	E	884351.00
PT J128	N	191134.69	E	884239.89					

STA 310+66.70 (IL 145)=
 STA 10+00.00 (POWERS CHURCH RD)



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PLOT DATE = 12/21/2010	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 145 AND COUNTRY CLUB RD / POWERS CHURCH RD INTERSECTION RIGHT OF WAY			
PROJECT	JOB NO.	SHEET NO.	OF SHEETS
STA. 303+00.00 TO STA. 318+00.00	R-99-020-09		
SCALE: 1"=50'			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102(INL)	MASSAC	79	20
CONTRACT NO. 78116				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

NORTHWEST RADIUS

STATIONING ALONG NW RADIUS	NW RADIUS ELEV.	STATIONING ALONG IL 145	OFFSET TO IL 145 C.L.	STATIONING ALONG C.C. RD.	OFFSET TO C.C. RD. C.L.
0+00	376.26	311+53.29	18.00		
0+10	376.19	311+43.34	18.91		
0+20	376.10	311+33.72	21.60		
0+30	375.97	311+24.75	25.98		
0+40	375.82	311+16.72	31.92	152+94.38	40.16
0+50	375.66	311+09.89	39.20	152+87.21	33.20
0+60	375.30	311+04.50	47.61	152+78.90	27.66
0+70	375.00			152+69.73	23.72
0+80	374.70			152+60.11	20.98
0+90	374.60			152+50.40	18.58
1+00	374.36			152+40.62	16.51
1+10	374.21			152+30.77	14.77
1+20	374.12			152+20.87	13.35
1+30	374.03			152+10.93	12.27
1+40	373.93			152+00.96	11.52
1+50	373.80			151+90.97	11.10



NORTHEAST RADIUS

STATIONING ALONG NE RADIUS	NE RADIUS ELEV.	STATIONING ALONG P.C. RD.	OFFSET TO P.C. RD. C.L.	STATIONING ALONG IL 145	OFFSET TO IL 145 C.L.
0+00	374.59	10+64.80	11.00		
0+10	374.80	10+54.89	12.11		
0+20	375.05	10+45.46	15.37		
0+30	375.40	10+36.98	20.64	310+86.53	37.42
0+40	375.70	10+29.87	27.64	310+93.69	30.46
0+50	375.90	10+24.48	36.04	311+02.20	25.25
0+60	375.00			311+11.65	22.04
0+70	376.05			311+21.53	20.51
0+80	376.13			311+31.46	19.39
0+90	376.19			311+41.43	18.59
1+00	376.25			311+51.42	18.13

COUNTRY CLUB ROAD

1+57.59 (NW RADIUS) = 151+83.38, 11.0 LT. (C.C. RD.)

STA. 153+27.00 COUNTRY CLUB RD. = STA. 310+76.00 IL 145

0+00.00 (NW RADIUS) = 311+53.29, 18.0 LT. (IL 145)

2 CENTERED CURVE 55'-300'-10' OFFSET

1+08.87 (NE RADIUS) = 311+60.29, 18.0 RT. (IL 145)

2 CENTERED CURVE 45'-300'-3' OFFSET

STA. 10+00.00 POWERS CHURCH RD. = STA. 310+66.70 IL 145

0+00.00 (NE RADIUS) = 10+64.80, 11.0 LT. (PWRS CHURCH RD.)

COUNTRY CLUB RD.

0+00.00 (SW RADIUS) = 152+45.14, 11.0 RT. (C.C. RD.)

SOUTHWEST RADIUS

2 CENTERED CURVE 55'-300'-10' OFFSET

POWERS CHURCH RD.

1+57.49 (SE RADIUS) = 11+43.59, 11.0 RT. (PWRS CHURCH RD.)

POWERS CHURCH ROAD

SOUTHWEST RADIUS

STATIONING ALONG SW RADIUS	SW RADIUS ELEV.	STATIONING ALONG C.C. RD.	OFFSET TO C.C. RD. C.L.	STATIONING ALONG IL 145	OFFSET TO IL 145 C.L.
0+00	374.56	152+45.14	11.00		
0+10	374.73	152+55.08	11.91		
0+20	374.86	152+64.70	14.60		
0+30	375.05	152+73.67	18.98		
0+40	375.20	152+81.70	24.92	310+51.88	45.72
0+50	375.35	152+88.53	32.20	310+44.47	39.02
0+60	375.50	152+93.92	40.61	310+35.98	33.78
0+70	375.65			310+26.67	30.15
0+80	375.75			310+17.03	27.49
0+90	375.85			310+07.31	25.16
1+00	375.89			309+97.51	23.15
1+10	375.92			309+87.65	21.47
1+20	375.95			309+77.75	20.12
1+30	375.97			309+67.80	19.10
1+40	375.98			309+57.82	18.41
1+50	375.99			309+47.83	18.05

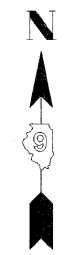
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0+00.00 (SE RADIUS) = 309+89.09, 18.0 RT. (IL 145)

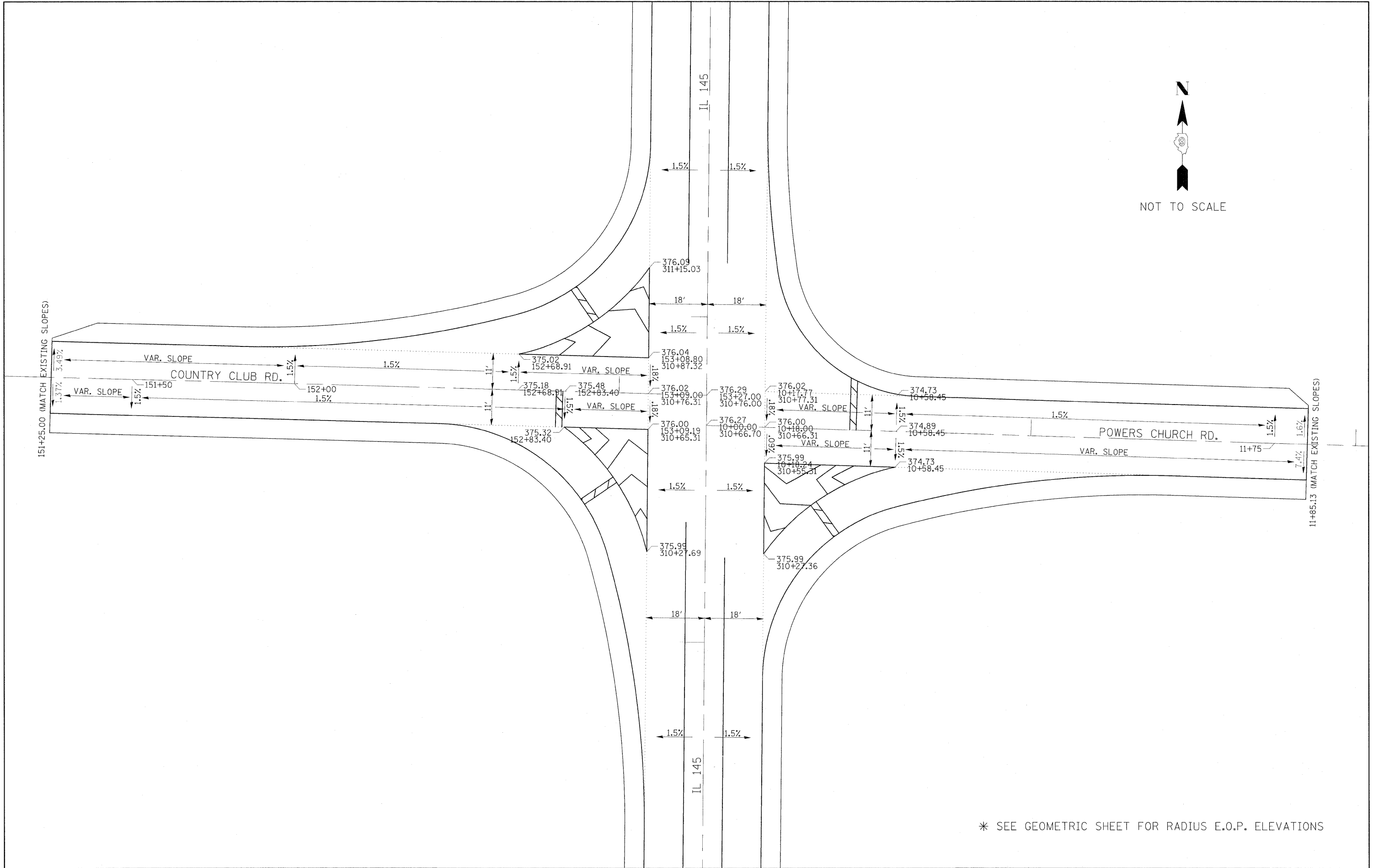
2 CENTERED CURVE 55'-300'-10' OFFSET

SOUTHEAST RADIUS

STATIONING ALONG SE RADIUS	SE RADIUS ELEV.	STATIONING ALONG IL 145	OFFSET TO IL 145 C.L.	STATIONING ALONG P.C. RD.	OFFSET TO P.C. RD. C.L.
0+00	375.99	309+89.09	18.00		
0+10	375.97	309+99.04	18.91		
0+20	375.92	310+08.66	21.60		
0+30	375.83	310+17.63	25.98		
0+40	375.61	310+25.66	31.92	10+32.80	40.34
0+50	375.31	310+32.49	39.20	10+39.94	33.36
0+60	375.00	310+37.88	47.61	10+48.22	27.78
0+70	374.60			10+57.38	23.80
0+80	374.31			10+66.99	21.04
0+90	374.12			10+76.69	18.64
1+00	373.93			10+86.47	16.55
1+10	373.80			10+96.32	14.80
1+20	373.68			11+06.21	13.37
1+30	373.56			11+16.15	12.28
1+40	373.42			11+26.12	11.52
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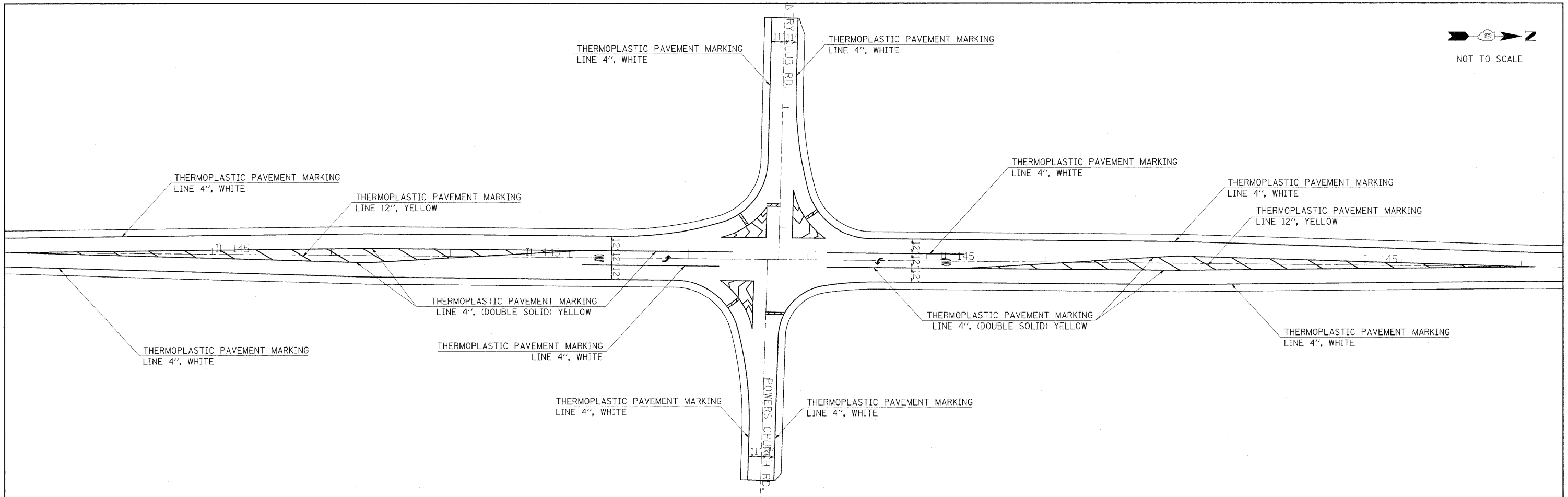


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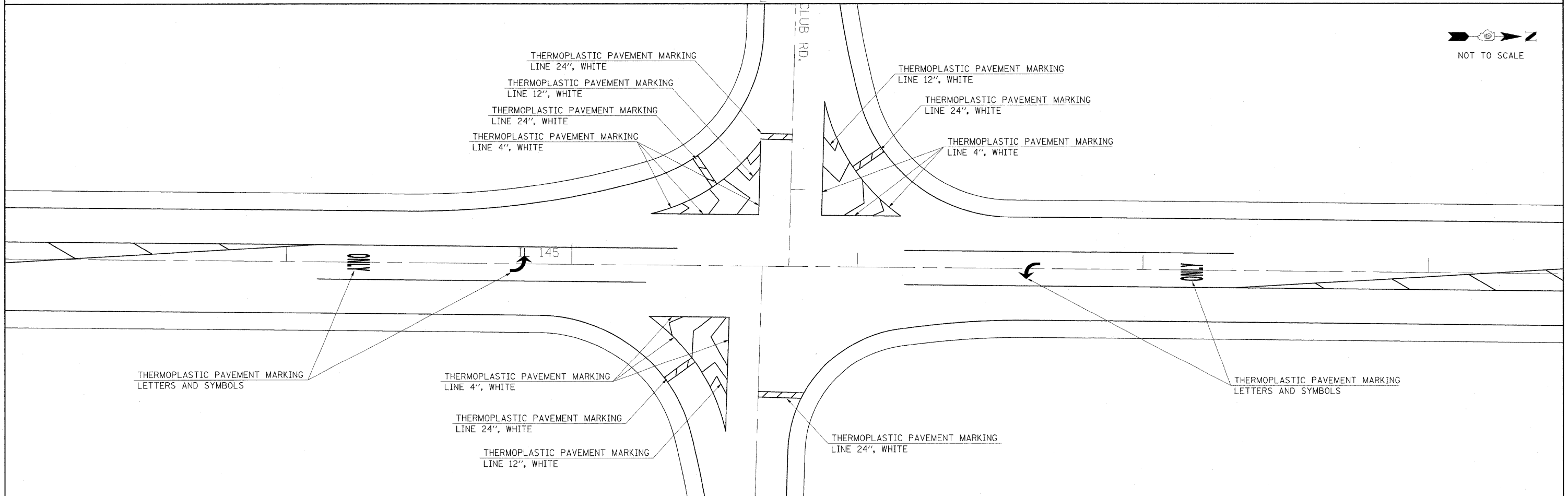


* SEE GEOMETRIC SHEET FOR RADIUS E.O.P. ELEVATIONS

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PLOT DATE = 12/14/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
SCALE: SHEET NO. OF SHEETS STA. TO STA.											



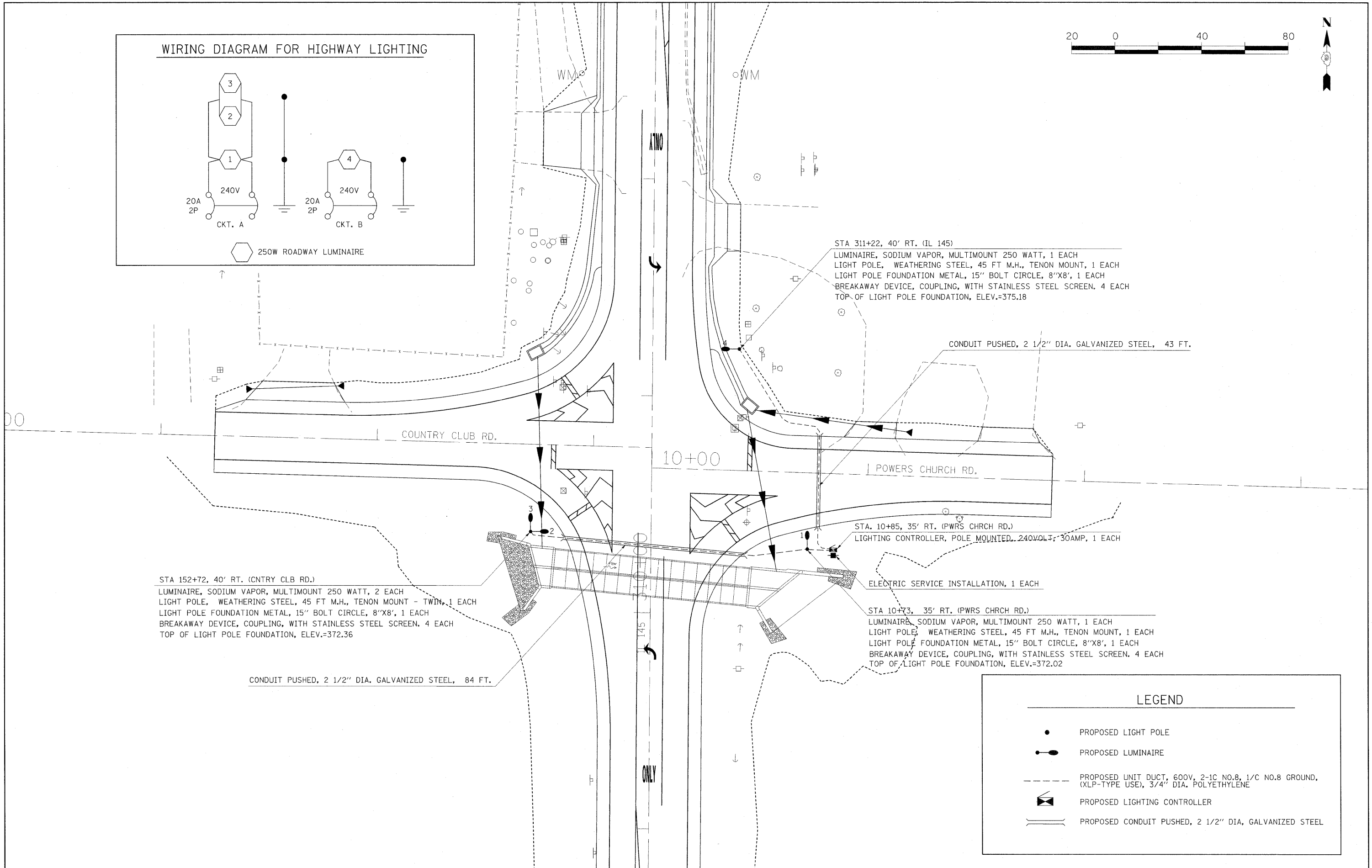
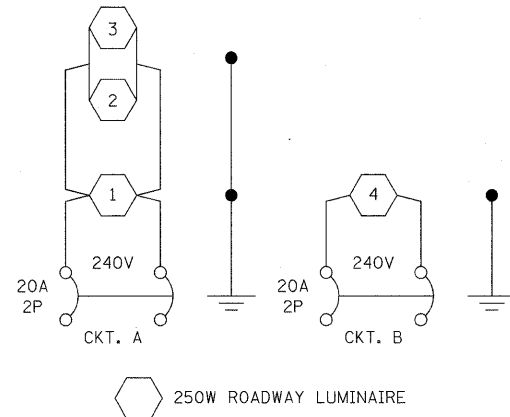
NOT TO SCALE



NOT TO SCALE

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et:\pw_work\pwwdot\neasdp\d8125145\d978115_sht_pln.dgn		DRAWN -	REVISED -			132	102(N,L)	MASSAC	79	23	
PLOT SCALE = 41.5754' / IN.		CHECKED -	REVISED -			CONTRACT NO. 78116					
PLOT DATE = 12/14/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.	

WIRING DIAGRAM FOR HIGHWAY LIGHTING



STA 152+72, 40' RT. (CNTRY CLB RD.)
 LUMINAIRE, SODIUM VAPOR, MULTIMOUNT 250 WATT, 2 EACH
 LIGHT POLE, WEATHERING STEEL, 45 FT M.H., TENON MOUNT - TWIN, 1 EACH
 LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8"X8", 1 EACH
 BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN. 4 EACH
 TOP OF LIGHT POLE FOUNDATION, ELEV.=372.36

CONDUIT PUSHED, 2 1/2" DIA. GALVANIZED STEEL, 84 FT.

STA 311+22, 40' RT. (IL 145)
 LUMINAIRE, SODIUM VAPOR, MULTIMOUNT 250 WATT, 1 EACH
 LIGHT POLE, WEATHERING STEEL, 45 FT M.H., TENON MOUNT, 1 EACH
 LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8"X8", 1 EACH
 BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN. 4 EACH
 TOP OF LIGHT POLE FOUNDATION, ELEV.=375.18

CONDUIT PUSHED, 2 1/2" DIA. GALVANIZED STEEL, 43 FT.

STA. 10+85, 35' RT. (PWRS CHRCH RD.)
 LIGHTING CONTROLLER, POLE MOUNTED, 240VOLT, 30AMP, 1 EACH

ELECTRIC SERVICE INSTALLATION, 1 EACH

STA 10+73, 35' RT. (PWRS CHRCH RD.)
 LUMINAIRE, SODIUM VAPOR, MULTIMOUNT 250 WATT, 1 EACH
 LIGHT POLE, WEATHERING STEEL, 45 FT M.H., TENON MOUNT, 1 EACH
 LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8"X8", 1 EACH
 BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN. 4 EACH
 TOP OF LIGHT POLE FOUNDATION, ELEV.=372.02

LEGEND

- PROPOSED LIGHT POLE
- ◐ PROPOSED LUMINAIRE
- PROPOSED UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- ◻ PROPOSED LIGHTING CONTROLLER
- ══ PROPOSED CONDUIT PUSHED, 2 1/2" DIA, GALVANIZED STEEL

FILE NAME =	USER NAME = noasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHWAY LIGHTING PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct\pw\work\pw\dot\noasdp\d0125145\d97511	5.sht.pln\dgn	DRAWN -	REVISED -			132	102(NL)	MASSAC	79	24	
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 78116					
	PLOT DATE = 12/14/2010	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

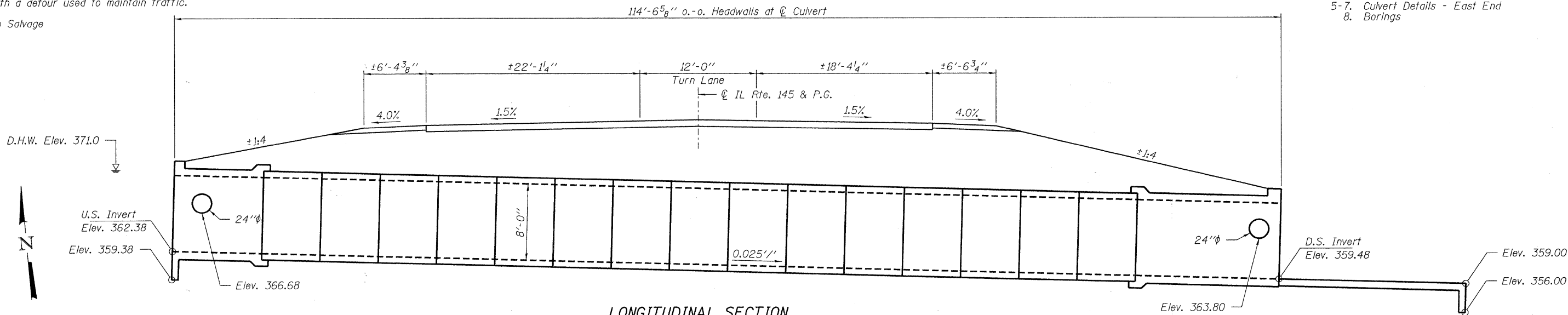
BENCHMARK: BM#7 Chiseled square on culvert headwall in S.E. corner. Sta. 310+42.15, Rt. 44.07', Elev. 373.50

EXISTING STRUCTURE NO. 064-7020: Originally constructed in 1933 as an RC double barrel 8'x8' box culvert. It was widened in 1975 and in 2003. The total length is 75'±. The culvert will be replaced using road closure with a detour used to maintain traffic.

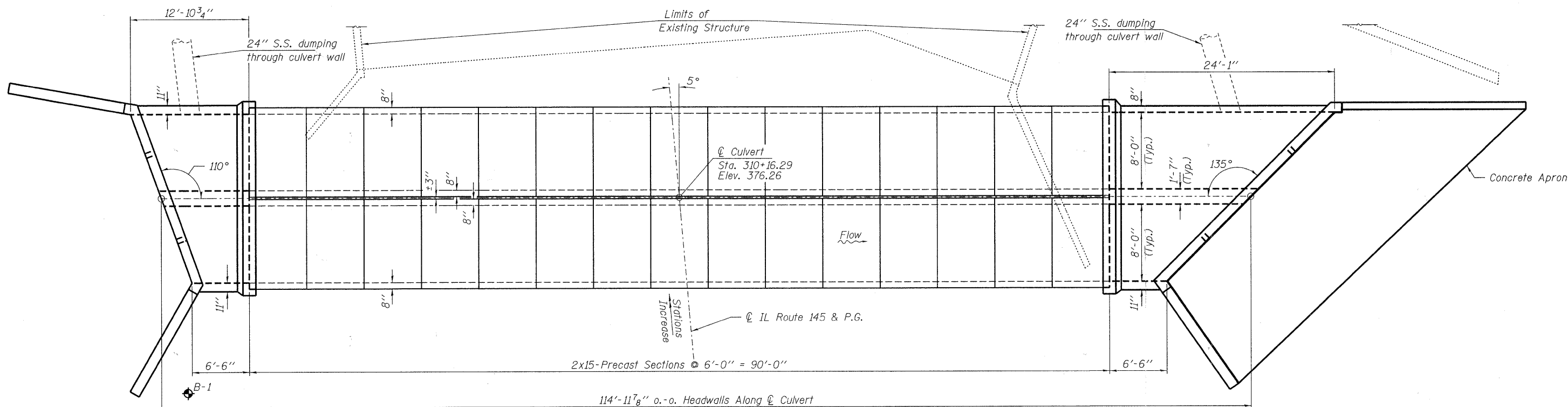
No Salvage

INDEX OF STRUCTURE SHEETS

1. General Plan
2. General Details
- 3-4. Culvert Details - West End
- 5-7. Culvert Details - East End
8. Borings



LONGITUDINAL SECTION
(Dimensions are @ Rt. L's to the C of Rdwy.)



PLAN

LOADING HS20-44

Allow 50#/Sq. Ft. for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

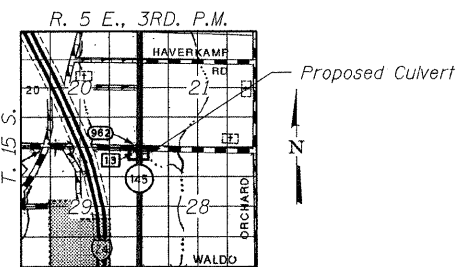
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)

DRAINAGE SCHEDULE

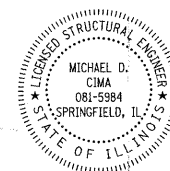
Drainage Area	1.03 Sq. Mi.
Design Waterway Opening	128 Sq. Ft.
Design Discharge (50 yr)	989 C.F.S.
Design Headwater Elevation	371.0 Ft.
100 Yr. Discharge	1140 C.F.S.
100 Yr. Headwater Elevation	371.8 Ft.
500 Yr. Discharge	1530 C.F.S.
500 Yr. Headwater Elevation	374.1 Ft.
Low Grade Elevation	376.11 @ Sta. 308+50

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	359.37	356.01



LOCATION SKETCH



Michael D. Cima
ILLINOIS STRUCTURAL NO. 081-5984
11-18-2010

Expires 11-30-2012

GENERAL PLAN
IL ROUTE 145
OVER UNNAMED STREAM
FAP ROUTE 132 - SECTION 102(N.L.)
MASSAC COUNTY
STATION 310+16.29
STRUCTURE NO. 064-7043

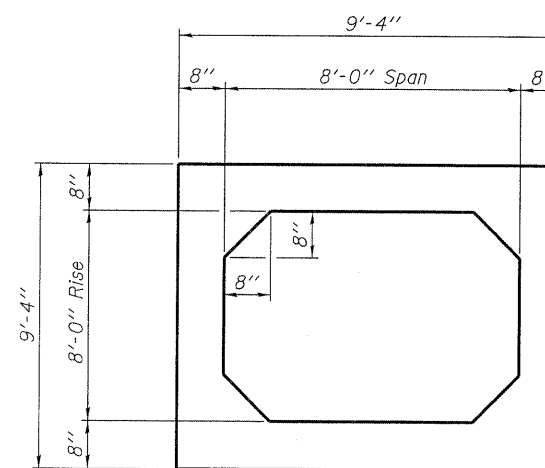
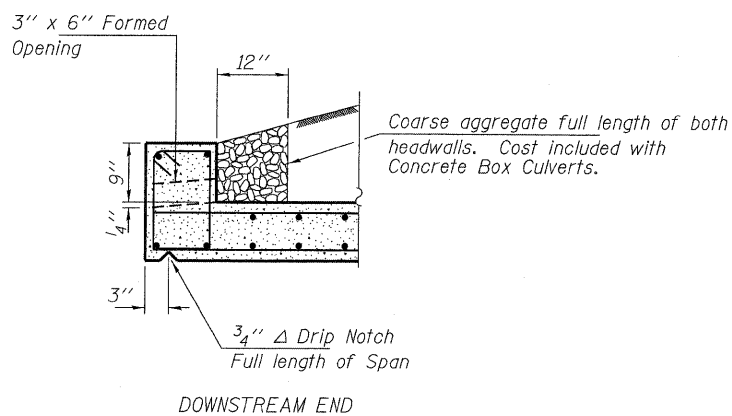
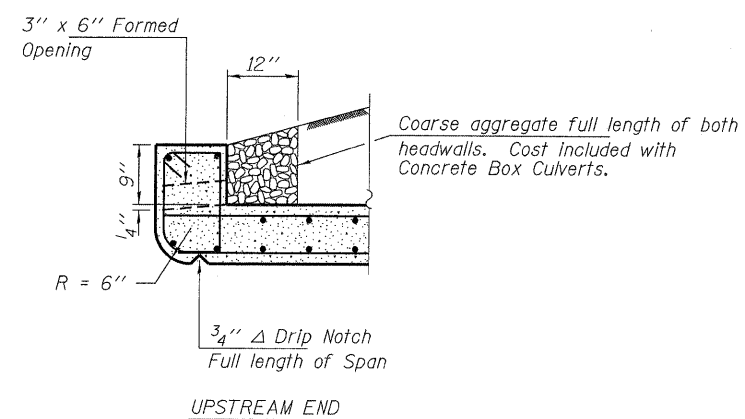
FILE NAME = 100260-shr-culvert.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN STRUCTURE NO. 064-7043 SHEET NO. 1 OF 8 SHEETS	IL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - D.W.T.	REVISED -			145	102 (N.L.)	MASSAC	79	25	
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000569	PLOT DATE = 11/18/2010	DRAWN - D.A.B.	REVISED -			CONTRACT NO. 78116					
		CHECKED - M.D.C.	REVISED -			ILLINOIS FED. AID PROJECT					

GENERAL NOTES

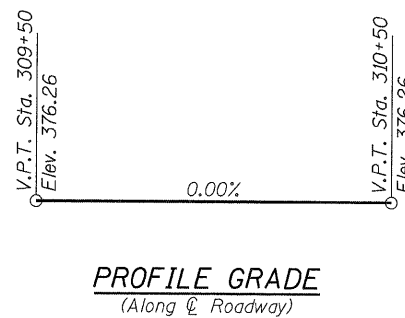
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.
 Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Riprap details are located on the Roadway Plans.

TOTAL BILL OF MATERIAL

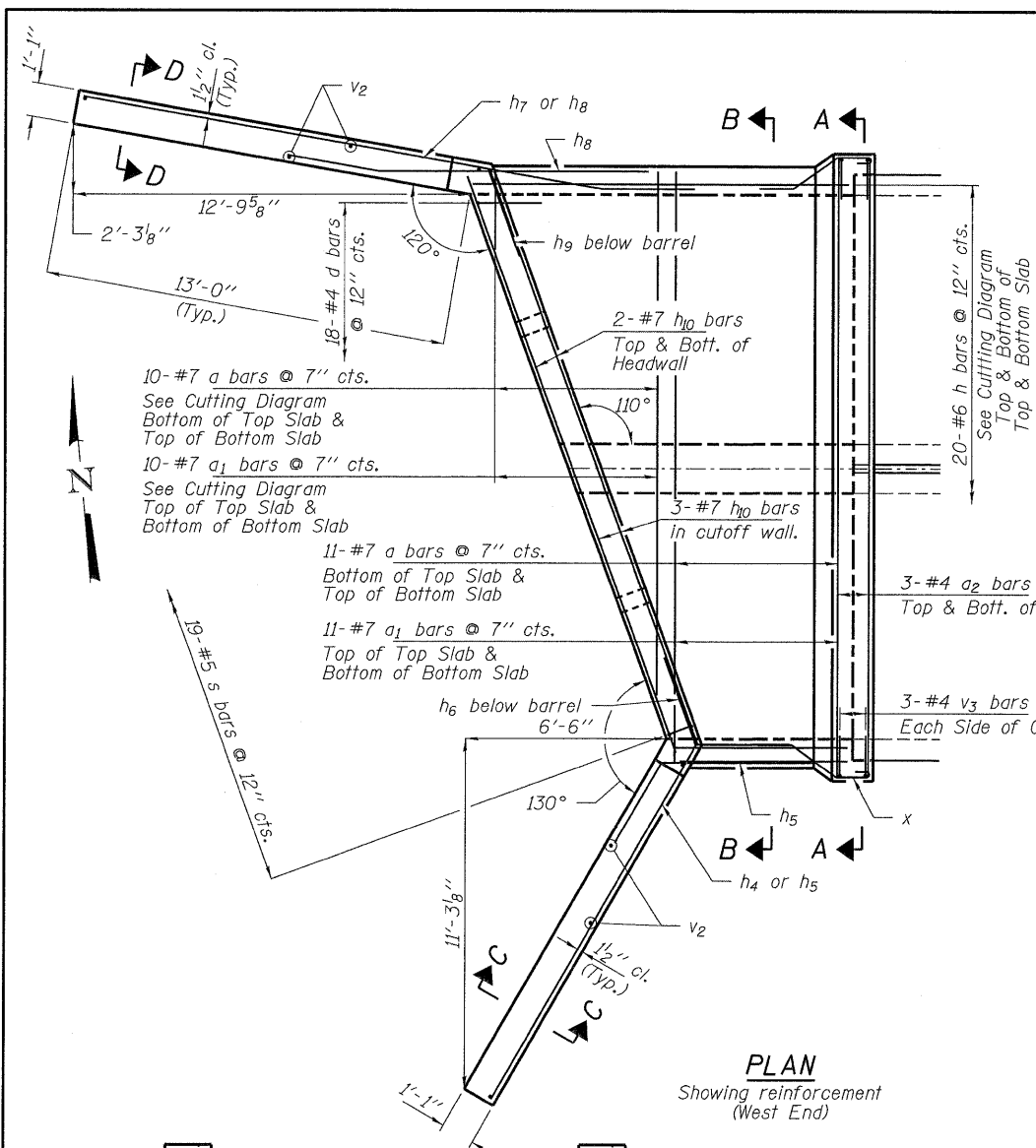
Bar	No.	Size	Length	Shape
a	32	#7	20'-9"	U
a1	32	#7	19'-1"	—
a2	12	#4	19'-11"	—
a3	50	#7	20'-6"	U
a4	50	#7	18'-10"	—
d	66	#4	4'-6"	L
h	40	#6	18'-4"	—
h1	16	#6	12'-7"	—
h2	16	#6	9'-7"	—
h3	32	#6	6'-2"	—
h4	5	#9	16'-2"	—
h5	12	#9	8'-0"	—
h6	4	#9	15'-9"	—
h7	5	#9	20'-0"	—
h8	12	#9	12'-7"	—
h9	4	#9	15'-10"	—
h10	7	#7	19'-10"	—
h11	38	#6	28'-10"	—
h12	16	#6	23'-9"	—
h13	16	#6	15'-7"	—
h14	5	#9	16'-3"	—
h15	12	#9	8'-0"	—
h16	4	#9	16'-2"	—
h17	4	#7	25'-10"	—
h18	17	#5	40'-10"	—
h19	14	#5	32'-3"	—
h20	56	#5	13'-2"	—
h21	12	#5	13'-6"	—
h22	9	#4	18'-11"	—
s	19	#5	4'-7"	D
s1	25	#5	4'-9"	D
v	298	#4	8'-0"	—
v1	298	#4	2'-4"	—
v2	12	#4	12'-2"	—
v3	12	#4	13'-0"	—
v4	32	#5	4'-0"	—
v5	14	#5	13'-11"	—
v6	3	#4	9'-11"	—
x	120	#4	4'-10"	—
z(E)	29	#7	9'-0"	L
Reinforcement Bars, Epoxy Coated	Pounds	20,705		
Concrete Box Culverts	Cu. Yd.	93.20		
Precast Concrete Box Culverts 8'x8'	Foot	180		



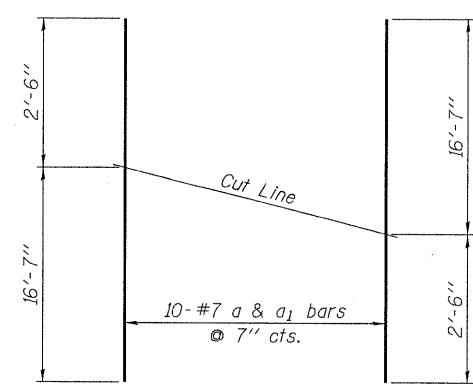
SECTION THRU PRECAST BOX



PROFILE GRADE
(Along Center Roadway)

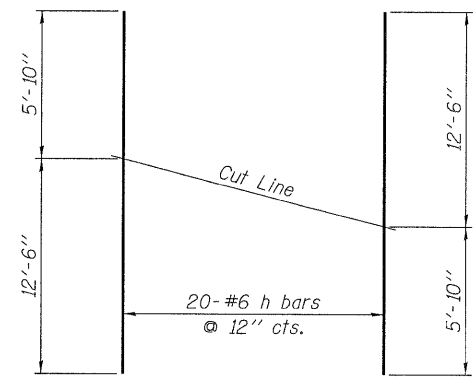


PLAN
Showing reinforcement
(West End)



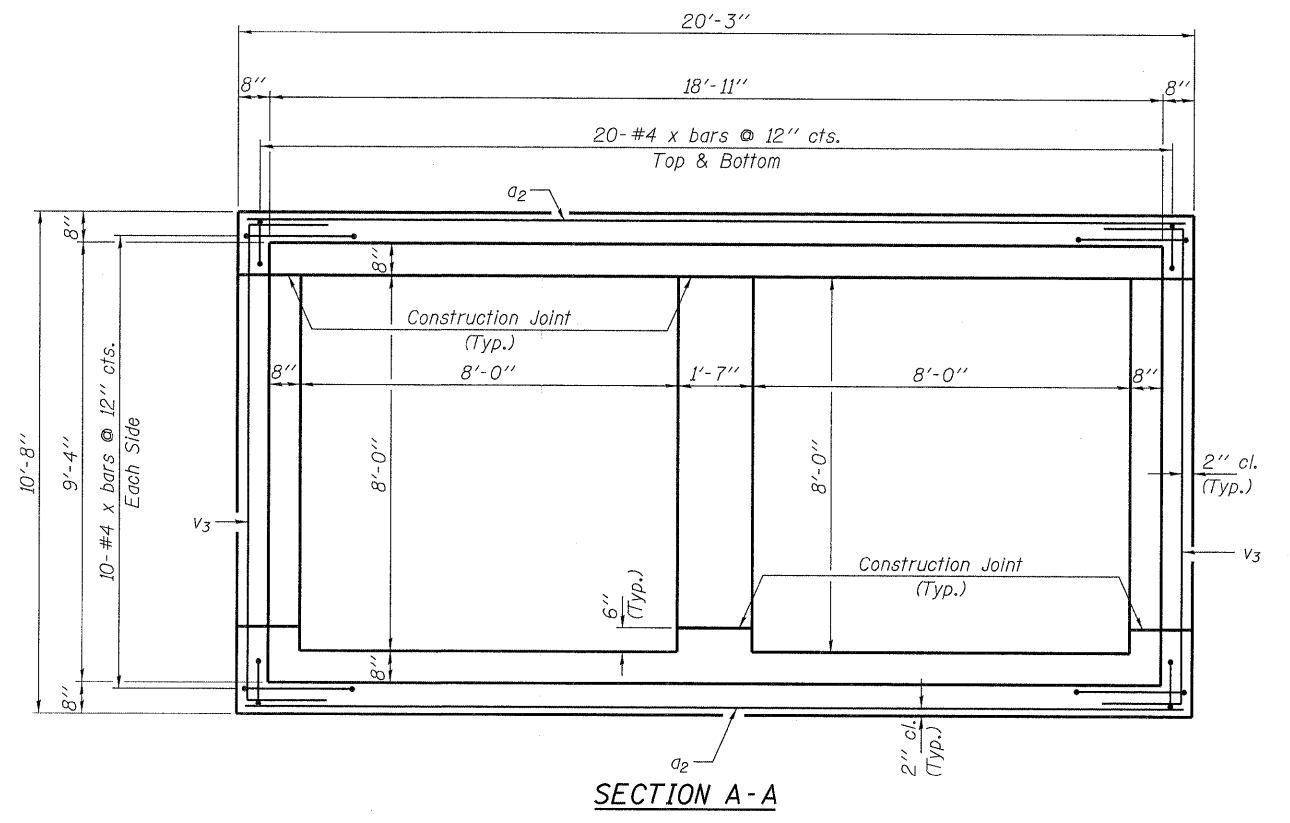
CUTTING DIAGRAM

Order a & a₁ bars full length. Cut as shown and use the remainder in opposite face of slab.

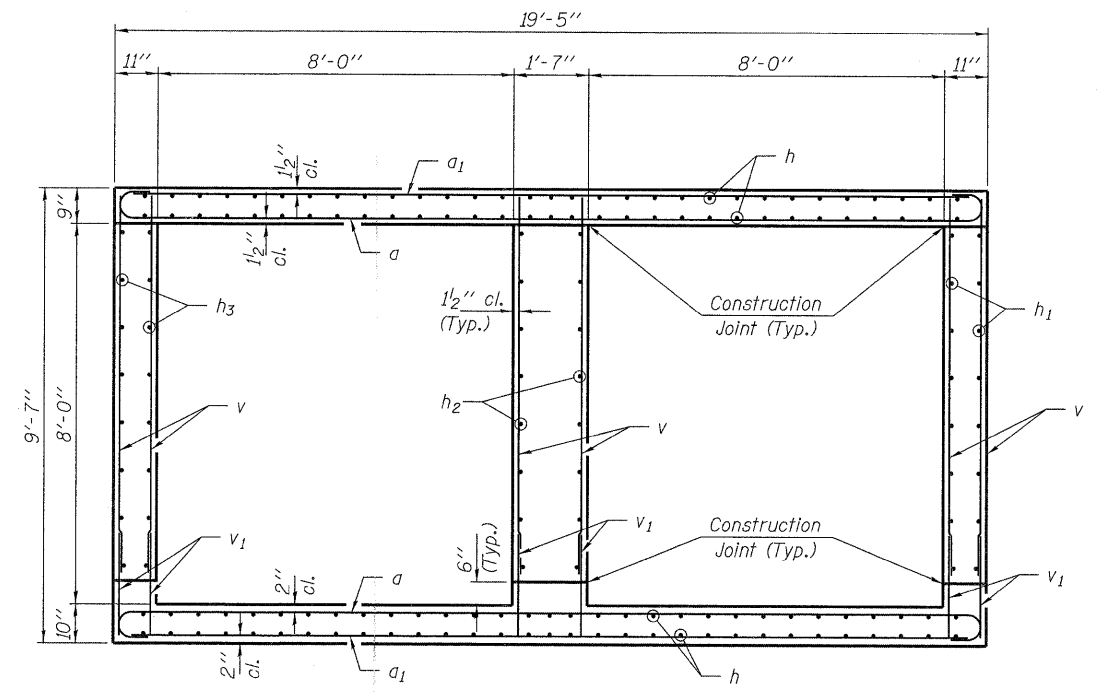


CUTTING DIAGRAM

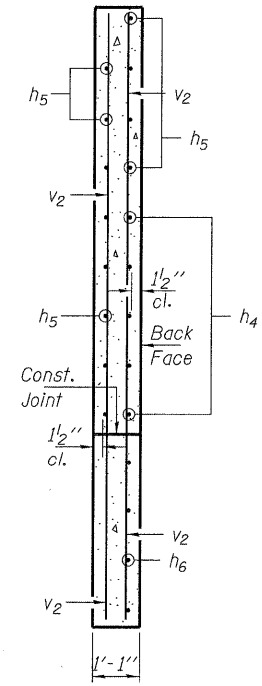
Order h bars full length. Cut as shown and use the remainder in opposite face of slab.



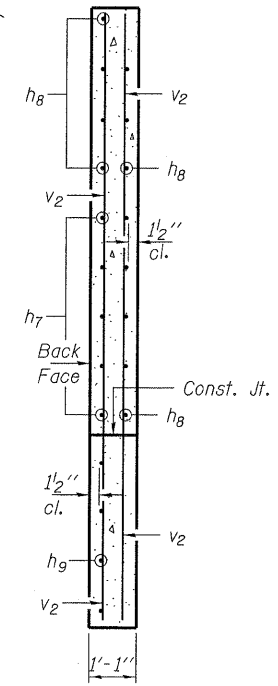
SECTION A-A



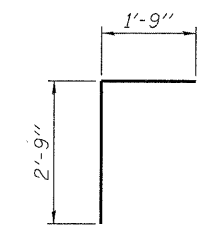
SECTION B-B



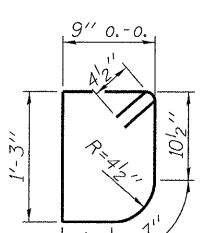
SECTION C-C



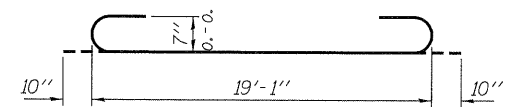
SECTION D-D



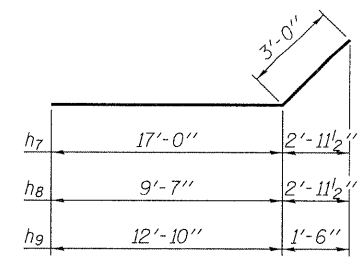
BAR d



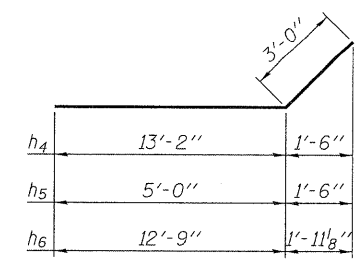
BAR s



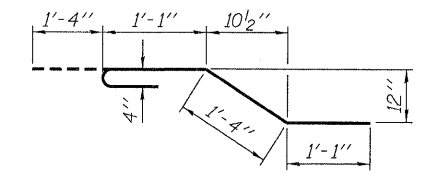
BARS a



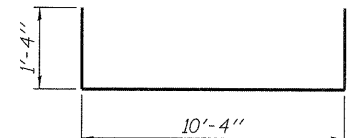
BARS h₇, h₈ & h₉



BARS h₄, h₅ & h₆



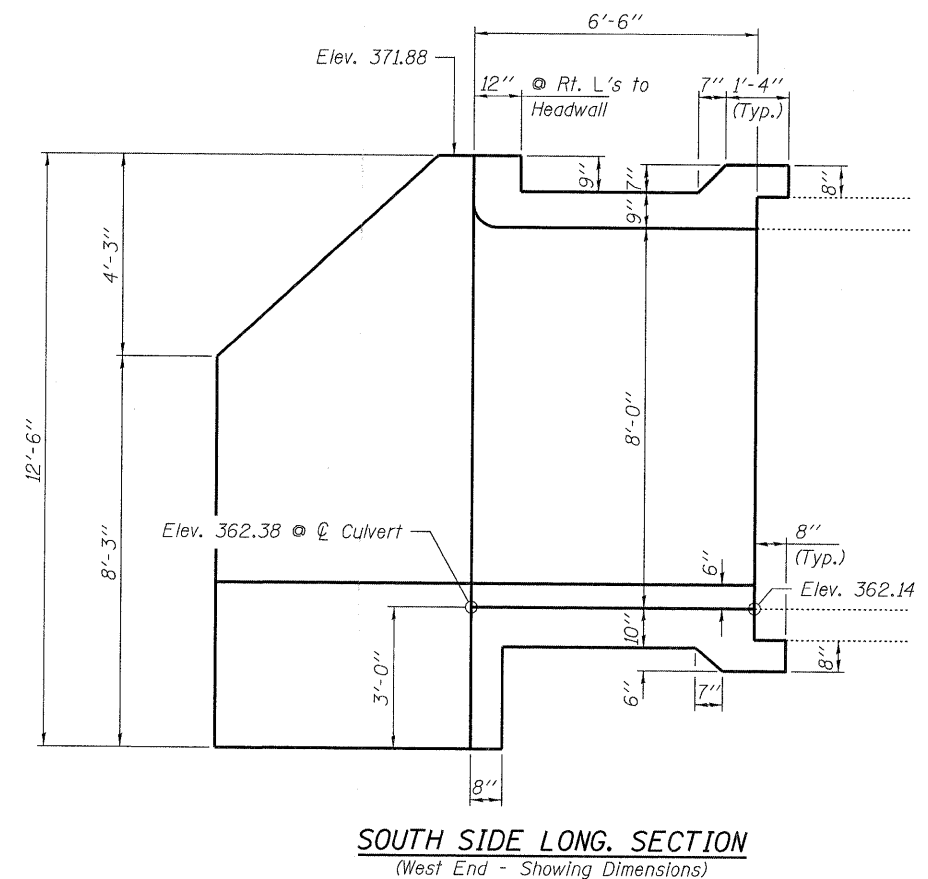
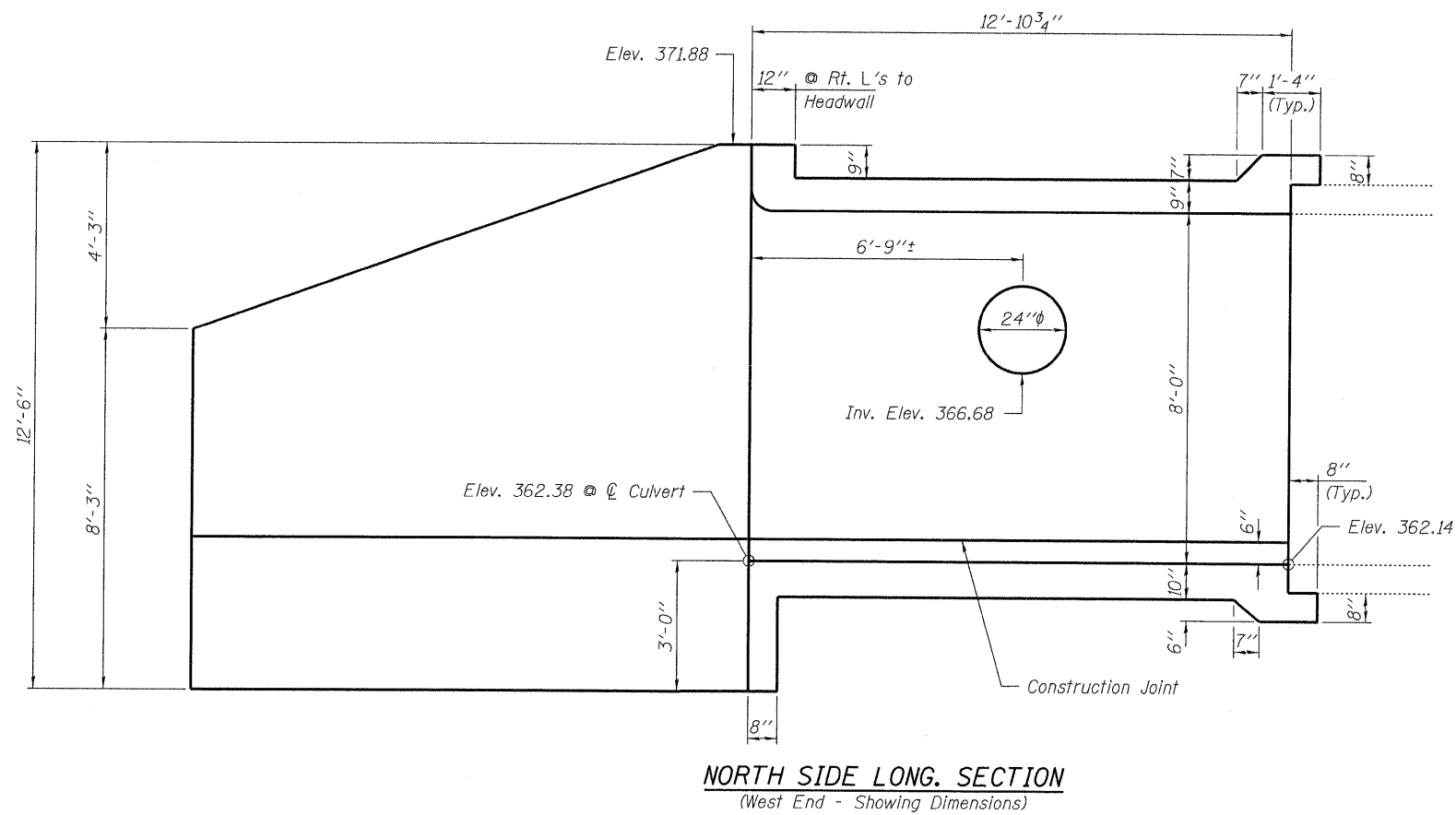
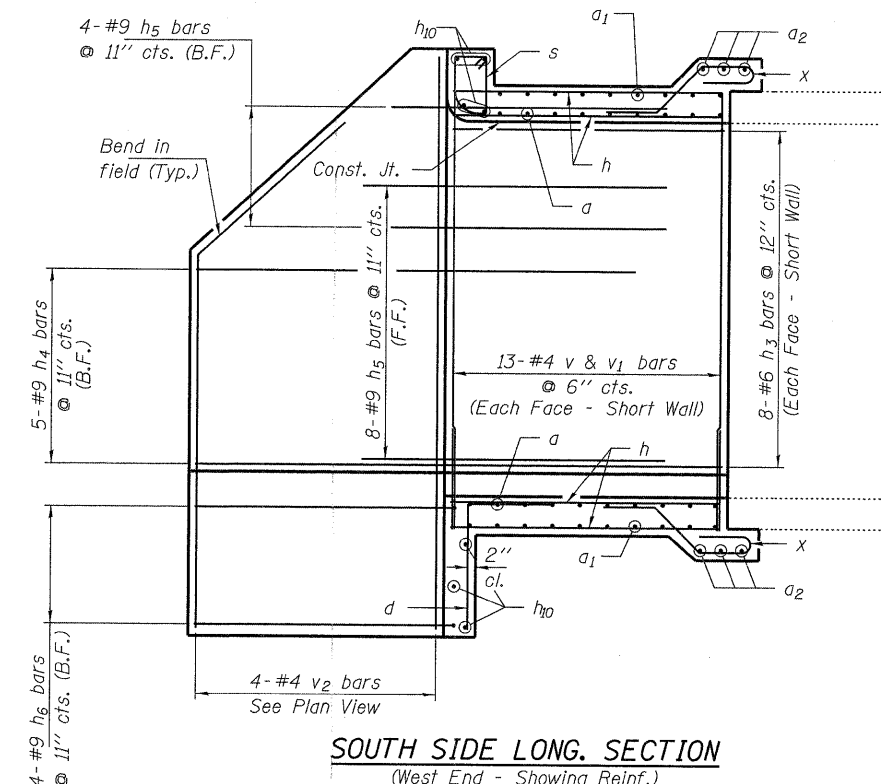
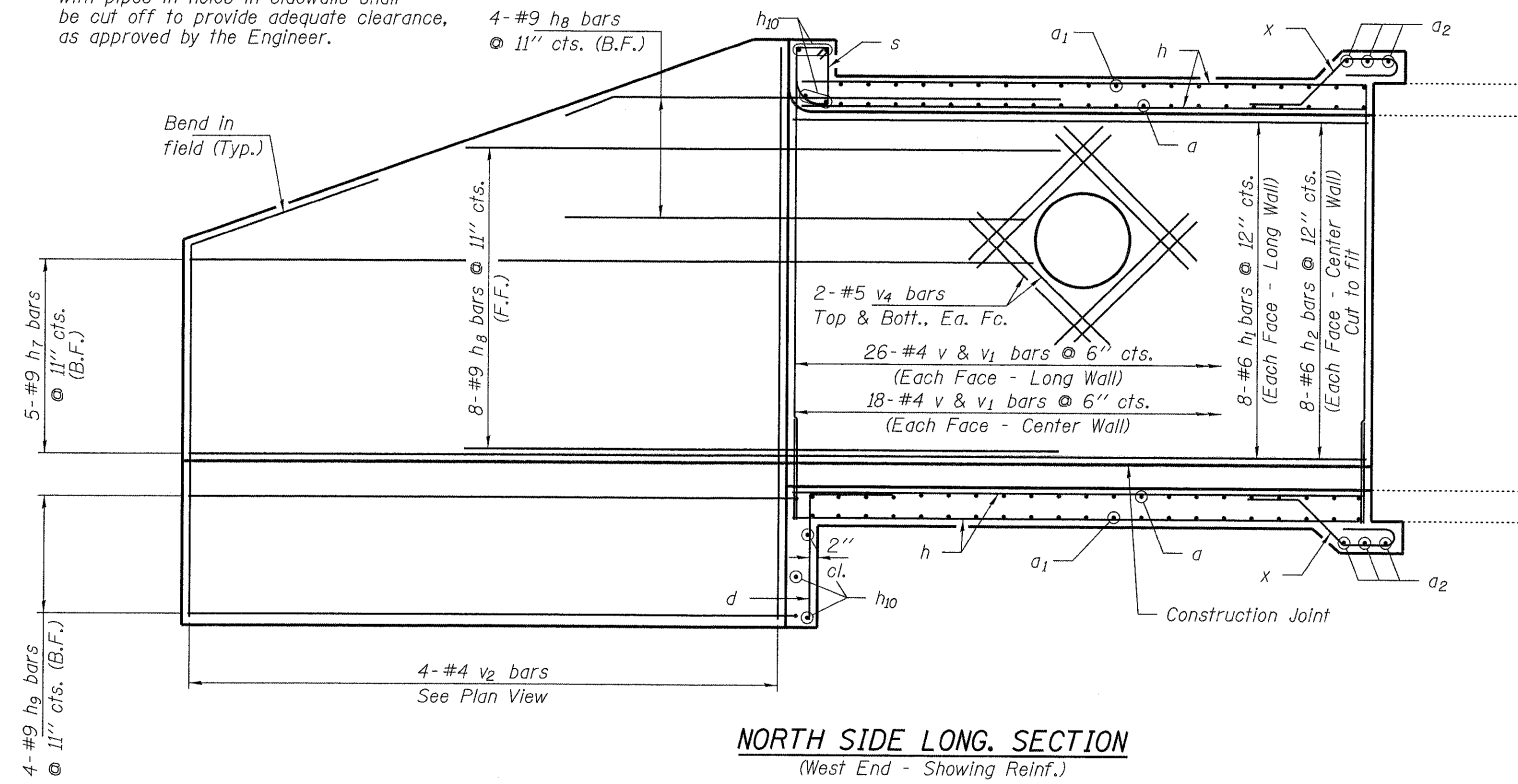
BAR x

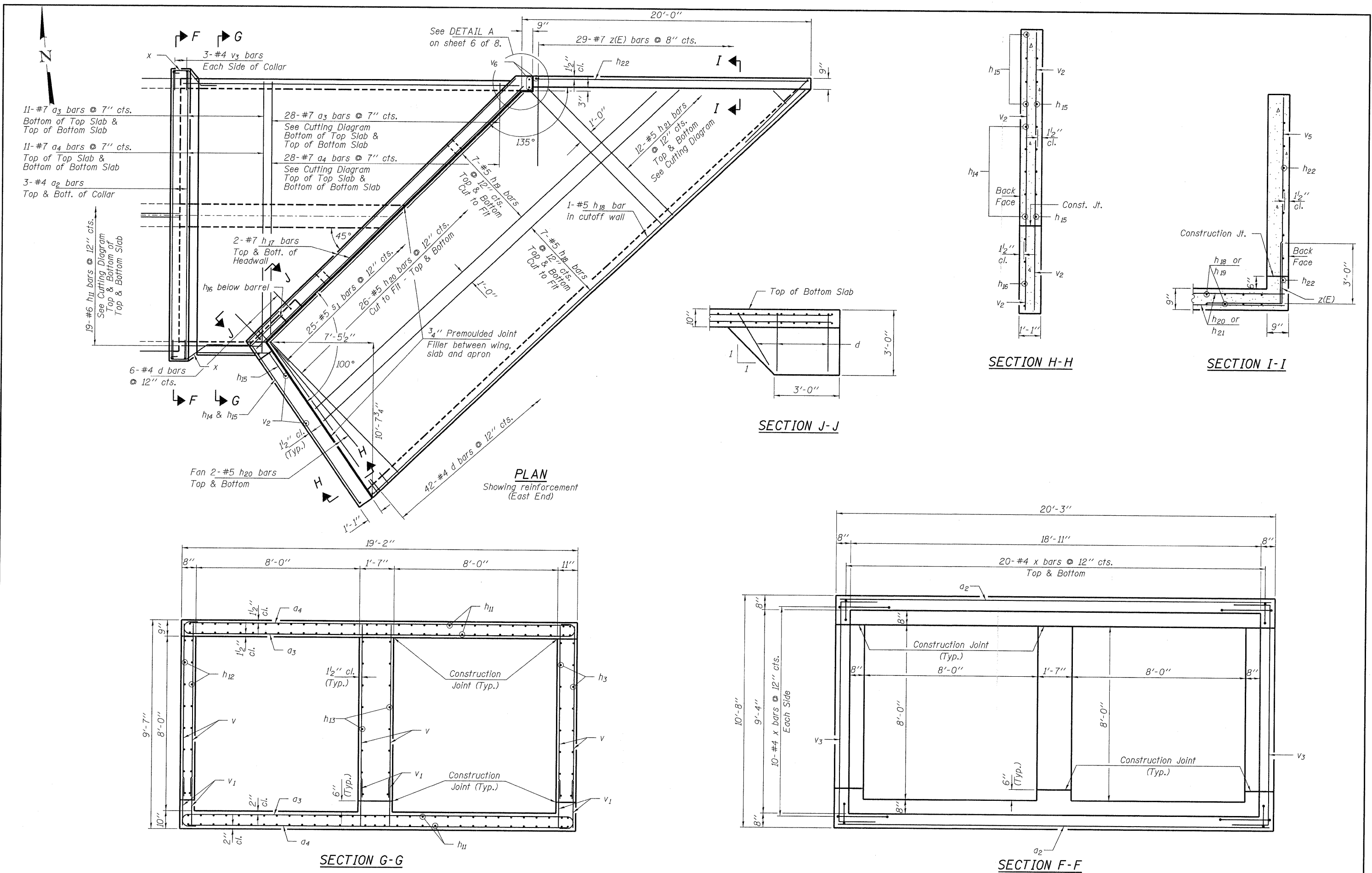


BAR v₃

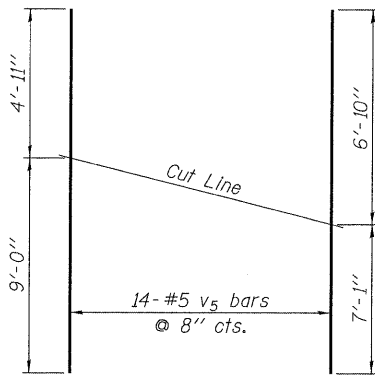
FILE NAME = 180260-sh-t-culvert.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS - WEST END STRUCTURE NO. 064-7043	IL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3835 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - D.W.T.	REVISED -			145	102 (N.L.)	MASSAC	79	27	
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000959	PLOT DATE = 11/18/2010	DRAWN - D.A.B.	REVISED -			CONTRACT NO. 78116					
		CHECKED - M.D.C.	REVISED -			SHEET NO. 3 OF 8 SHEETS					

Note:
Reinforcement bars that interfere with pipes in holes in sidewalls shall be cut off to provide adequate clearance, as approved by the Engineer.



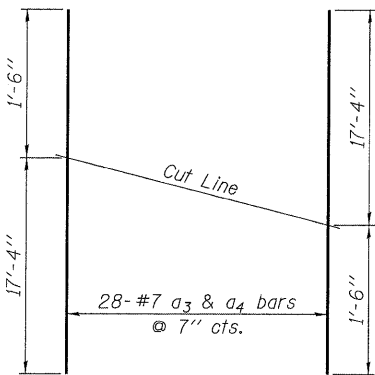
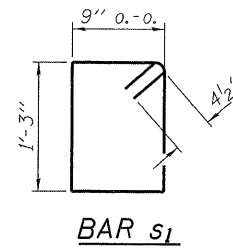
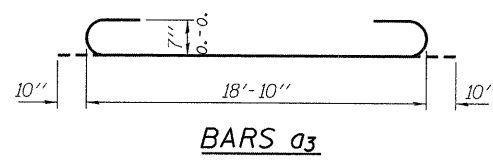


FILE NAME = 100260-sh-culvert.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS - EAST END STRUCTURE NO. 064-7043	IL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 300 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - D.W.T.	REVISED -			145	102 (N.L.)	MASSAC	79	29	
HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS1/PE/SE CORP. 184-000959	PLOT DATE = 11/18/2010	DRAWN - D.A.B.	REVISED -			CONTRACT NO. 78116					
		CHECKED - M.D.C.	REVISED -			ILLINOIS FED. AID PROJECT					



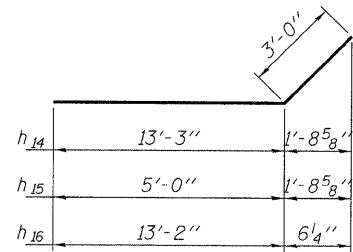
CUTTING DIAGRAM

Order v_5 bars full length. Cut as shown and use the remainder in same face of wall.

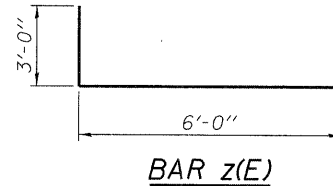


CUTTING DIAGRAM

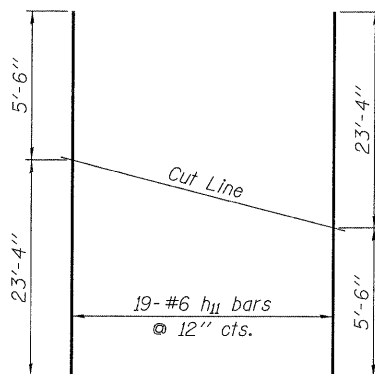
Order a_3 & a_4 bars full length. Cut as shown and use the remainder in opposite face of slab.



BARS h_{14} , h_{15} & h_{16}

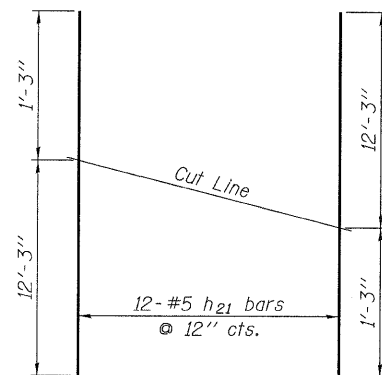


BAR $z(E)$



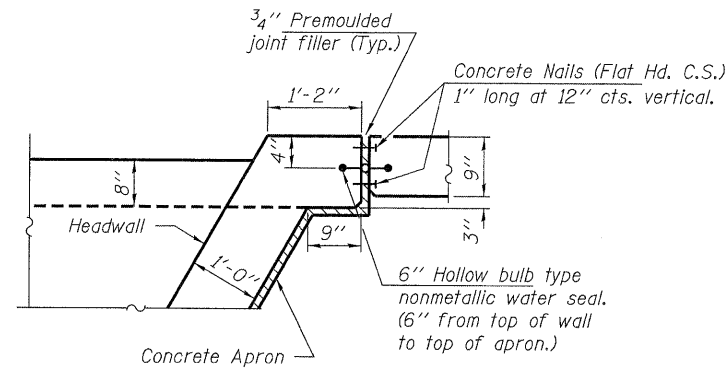
CUTTING DIAGRAM

Order h_{11} bars full length. Cut as shown and use the remainder in opposite face of slab.

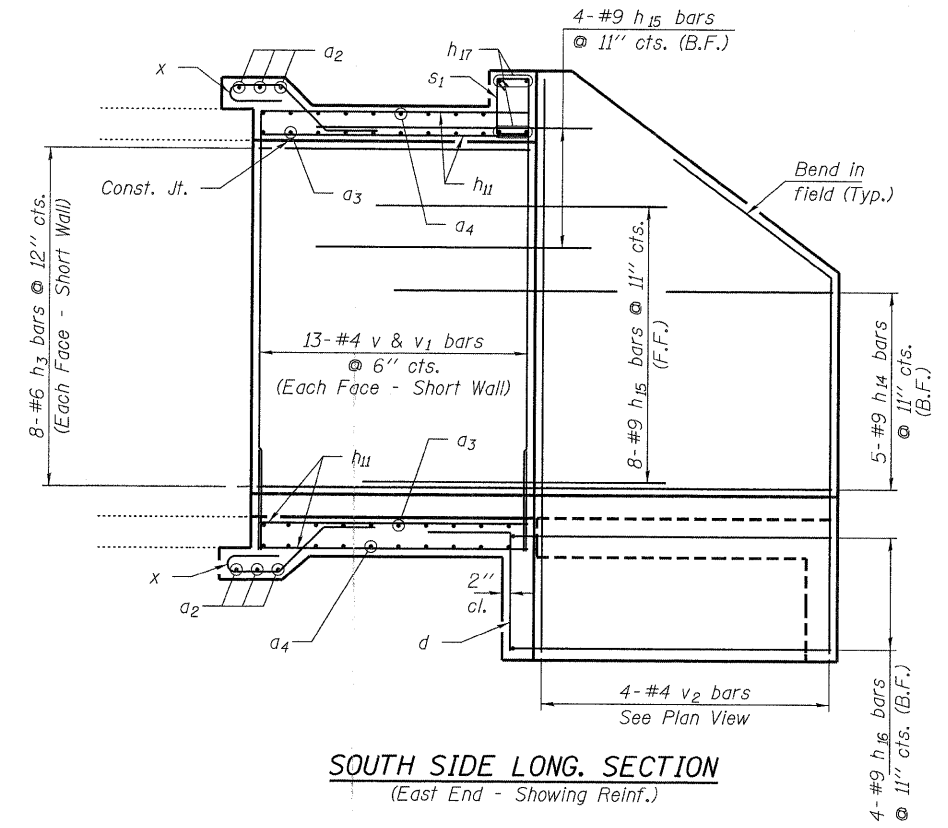


CUTTING DIAGRAM

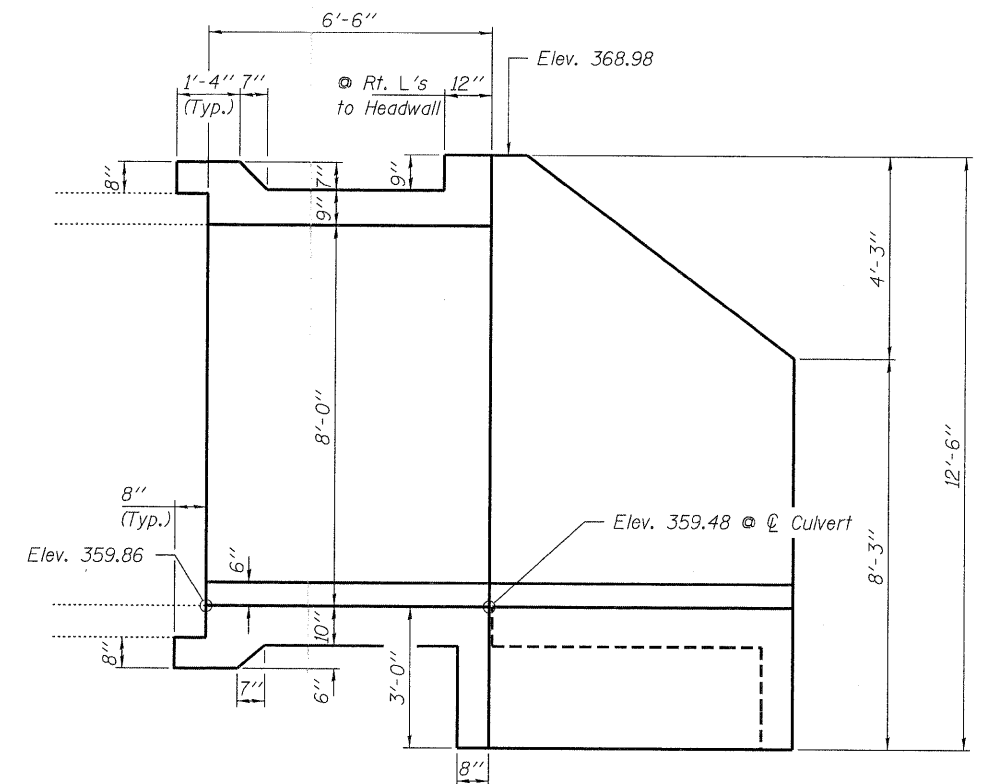
Order h_{21} bars full length. Cut as shown and use the remainder in opposite face of slab.



DETAIL A



SOUTH SIDE LONG. SECTION
(East End - Showing Reinf.)

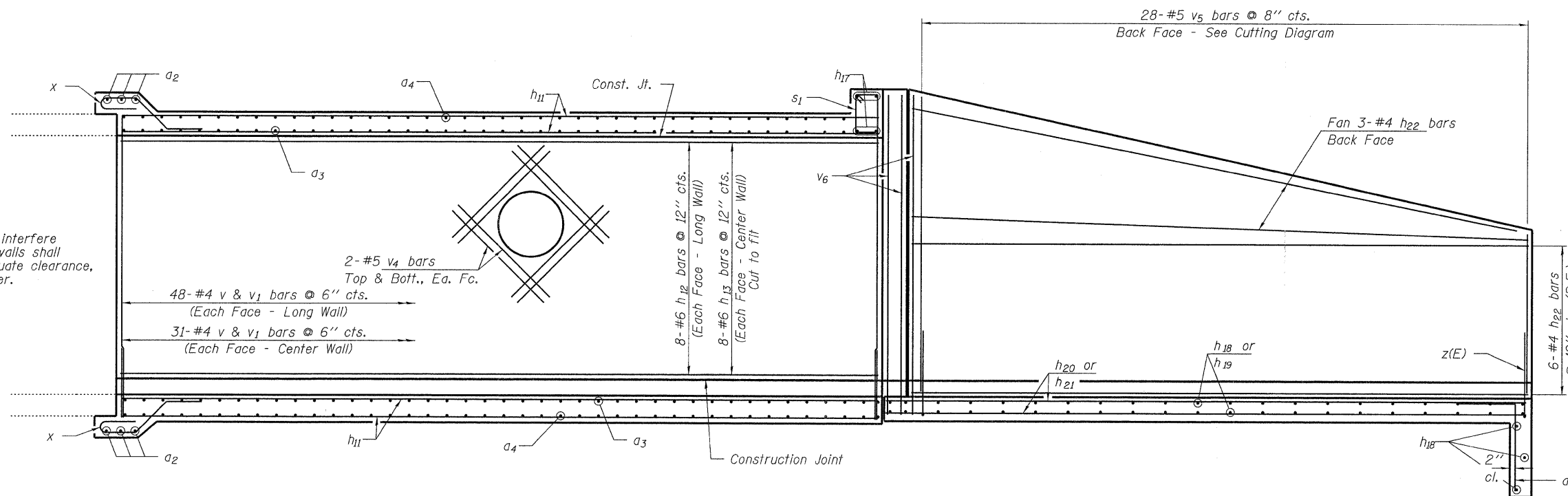


SOUTH SIDE LONG. SECTION
(East End - Showing Dimensions)

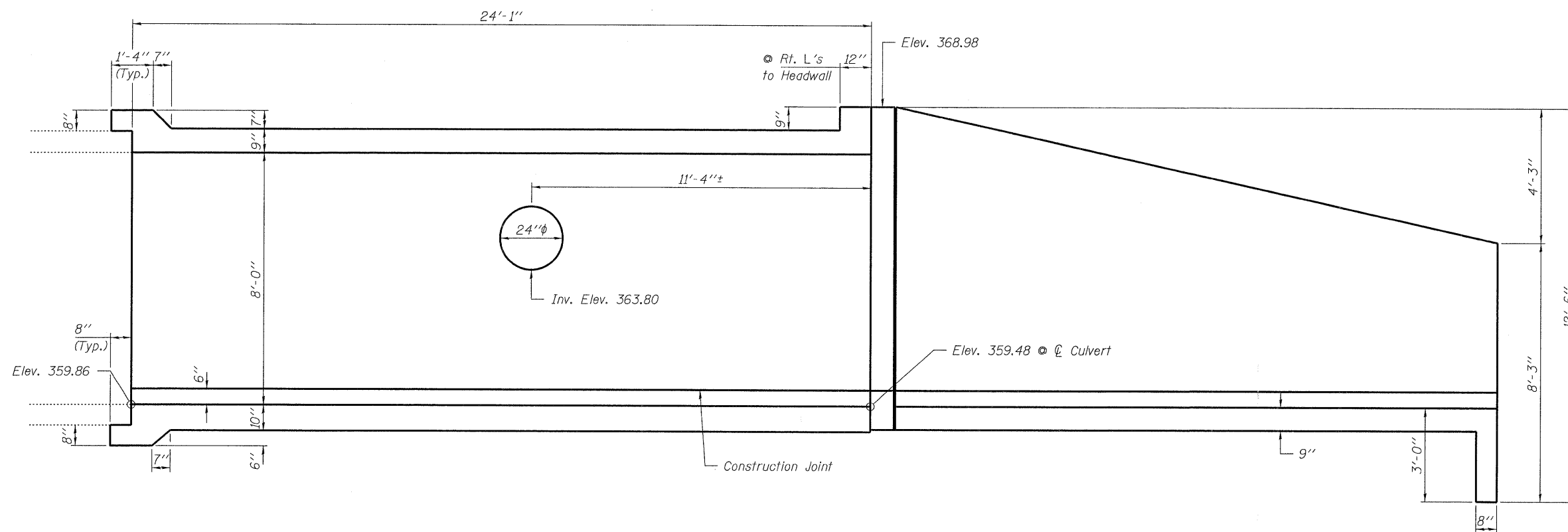
FILE NAME = 100260-sh-culvert.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS - EAST END STRUCTURE NO. 064-7043	IL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3005 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - D.W.T.	REVISED -			145	102 (N.L.)	MASSAC	79	30	
ILR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184 000989	PLOT DATE = 11/18/2010	DRAWN - D.A.B.	REVISED -			CONTRACT NO. 78116					
		CHECKED - M.D.C.	REVISED -			SHEET NO. 6 OF 8 SHEETS					

ILLINOIS FED. AID PROJECT

Note:
Reinforcement bars that interfere with pipes in holes in sidewalls shall be cut off to provide adequate clearance, as approved by the Engineer.



NORTH SIDE LONG. SECTION
(East End - Showing Reinf.)



NORTH SIDE LONG. SECTION
(East End - Showing Dimensions)

FILE NAME = 100260-sht-culvert.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS - EAST END STRUCTURE NO. 064-7043	IL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3303 STEVENSON DRIVE, SUITE 207 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - D.W.T.	REVISED -			145	102 (N.L.)	MASSAC	79	31	
HLR ILLINOIS PROFESSIONAL DESIGN FIRM 18 / E / SE CORP. 184.000999	PLOT DATE = 11/18/2010	DRAWN - D.A.B.	REVISED -			CONTRACT NO. 78116					
		CHECKED - M.D.C.	REVISED -			ILLINOIS FED. AID PROJECT					

HOLCOMB FOUNDATION ENGINEERING INC.
P.O. Box 88 618-529-5262
Carbondale, Il. 62903 618-457-8991 fax Page 1 of 1

Bridge Foundation Boring Log

Project: H-10201 Bridge Rt 145 Date: 9/24/2010
Section: 102(NI) Station _____ Bored by: D. Russell
Structure: _____
County: Massac Checked By: J. Holcomb

Boring No. <u>1</u>	Station _____	Offset _____	Elevation	N	Qu	tsf	w	Surface Water Elev. _____	Ground Water Elev. _____	During Drilling <u>none</u>	Upon Completion <u>none</u>	Elevation	N	Qu	tsf	w
Ground Surface 368.9 0																
Rip Rap																
365.9																
Brown Mottled Gray Sandy CLAY (A-6)																
342.4																
Brown Mottled Gray Fine SAND (A-2-4)																
362.4																
Brown Sandy CLAY (A-6) with gravel																
359.9																
Brown Clayey SAND (A-2-4)																
342.4																
Brown Mottled Gray Fine SAND (A-2-4)																
339.9																
Gray Fine to Med. SAND (A-2-4)																
338.9-30																
End of Boring @ -30.0'																

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu- Unconfined Compressive Strength in tons/sq.ft.
w- Water Content- percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

BORING 1

HOLCOMB FOUNDATION ENGINEERING INC.
P.O. Box 88 618-529-5262
Carbondale, Il. 62903 618-457-8991 fax Page 1 of 1

Bridge Foundation Boring Log

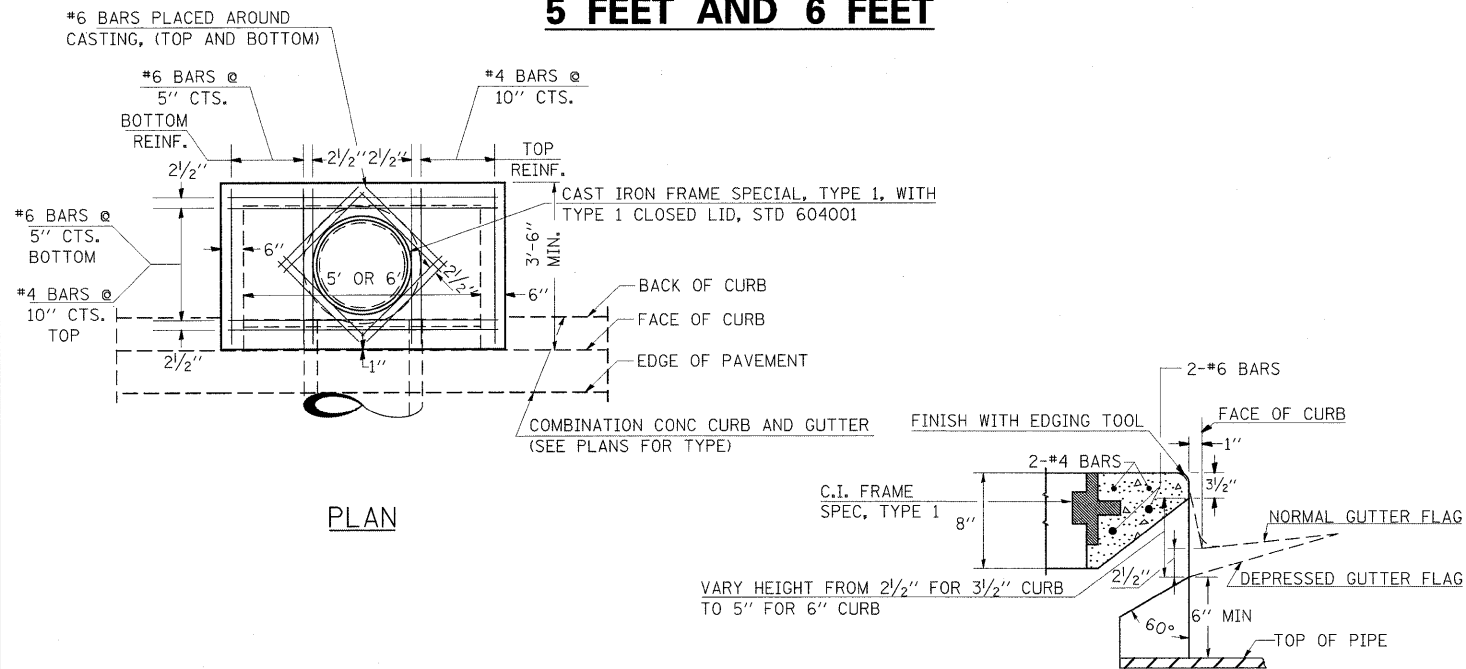
Project: H-10201 Bridge Rt 145 Date: 9/24/2010
Section: 102(NI) Station _____ Bored by: D. Russell
Structure: _____
County: Massac Checked By: J. Holcomb

Boring No. <u>2</u>	Station _____	Offset _____	Elevation	N	Qu	tsf	w	Surface Water Elev. _____	Ground Water Elev. _____	During Drilling <u>none</u>	Upon Completion <u>none</u>	Elevation	N	Qu	tsf	w
Ground Surface 373.7 0																
4" Topsoil																
Brown Sandy CLAY (A-6) with gravel																
369.7																
Brown Mottled Gray Clayey SILT to SILT (A-4)																
343.7-30																
End of Boring @ -30.0'																
364.7																
Gray Mottled Brown Sandy CLAY (A-6)																
359.7																
Brown Sandy CLAY (A-6)																
357.2																
Brown Clayey SAND (A-2-4) with gravel																

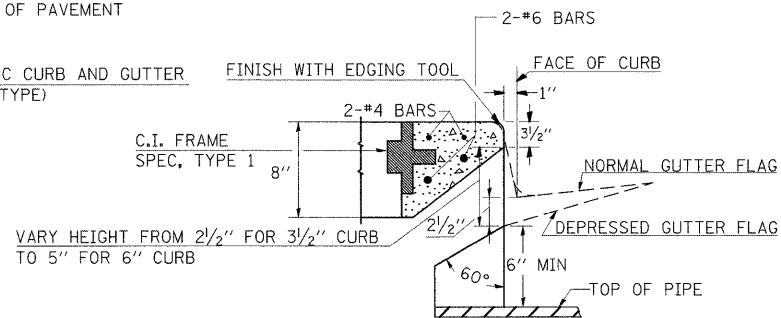
N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu- Unconfined Compressive Strength in tons/sq.ft.
w- Water Content- percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

BORING 2

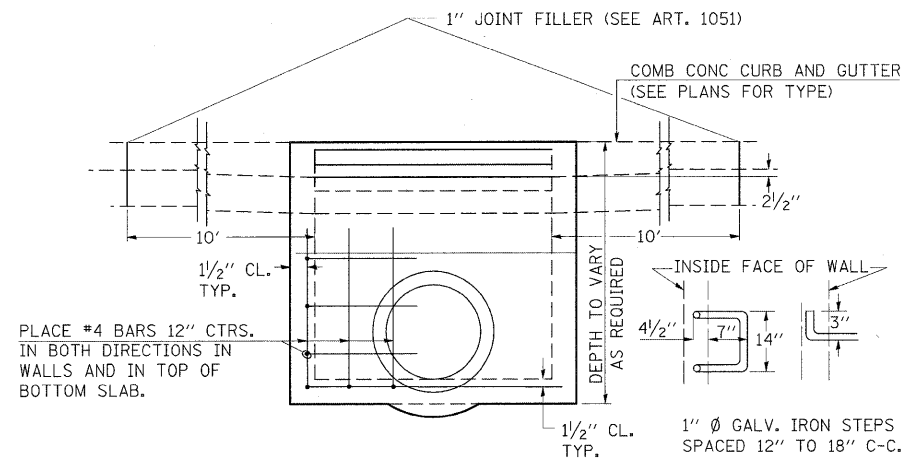
DETAILS OF INLET SPECIAL, TYPE 3, 5 FEET AND 6 FEET



PLAN

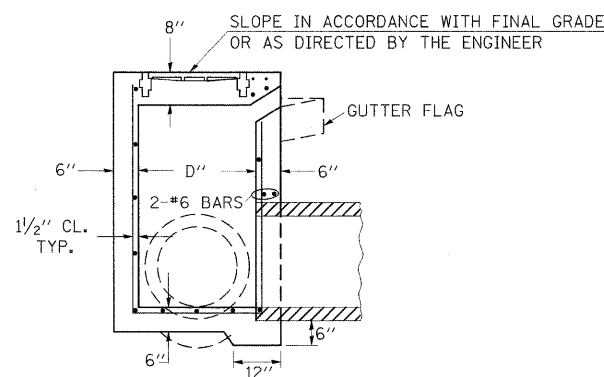


SECTION AT WEIR



ELEVATION

DESIGN	PIPE DIA	"D"
A	18" & LESS	2'-6"
B	21" & 24"	3'-0"
C	27" & 30"	3'-7"
D	33" & 36"	4'-2"
E	42"	4'-9"
F	48"	5'-0"
G	54"	6'-1"



SECTION

NOTES:

PROVIDE 1/2" CLEARANCE TYP. ALL REINFORCEMENT UNLESS OTHERWISE SPECIFIED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. SET FACE OF INLET 1" BEHIND FACE OF CURB. DEPRESS GUTTER FLOWLINE AT INLET 2 1/2" BELOW NORMAL GUTTER FLOWLINE. CONSTRUCT TRANSITION IN FLOWLINE IN 10 FEET EACH SIDE OF INLET. PIPES TO BE CONNECTED TO INLET AS SHOWN ON STORM SEWER LAYOUT.

INLETS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR INLET, SPECIAL, TYPE 3, 5 FEET OR INLET, SPECIAL, TYPE 3, 6 FEET WHICH PRICE SHALL INCLUDE THE CAST IRON FRAME, SPECIAL, TYPE 1 WITH TYPE 1 CLOSED LID, THE REINFORCEMENT BARS, METAL STEPS AND JOINT FILLER.

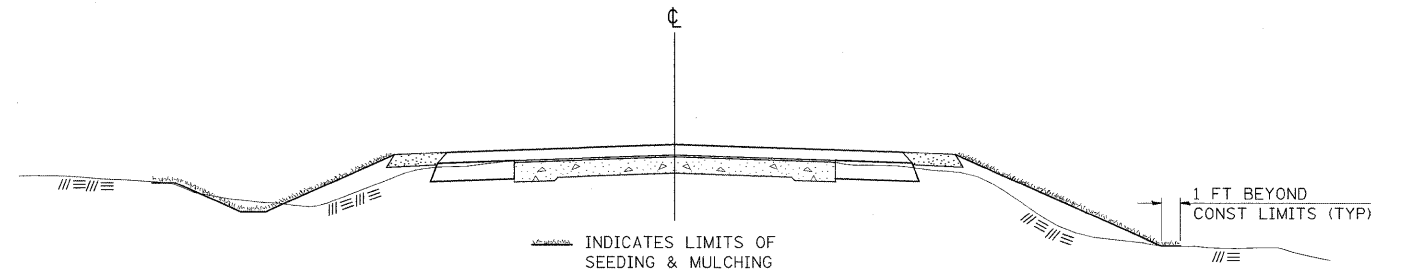
**THE GALVANIZED IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT WILL CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN. MAY BE USED WHEN APPROVED BY THE ENGINEER.

IF THE INLET IS NOT CAST IN PLACE THEN THE INLET SHALL BE PRODUCED ACCORDING TO THE DEPARTMENT'S CURRENT POLICY MEMORANDUM, "QUALITY CONTROL/QUALITY ASSURANCE PROGRAM FOR PRECAST CONCRETE PRODUCTS".

REVISIONS			
REDRAWN	2-15-89	REVISED	3-26-08
REVISED	8-15-94	REVISED	
REVISED	1-19-99	REVISED	
REVISED	5-6-04	REVISED	

STD. 9-1

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

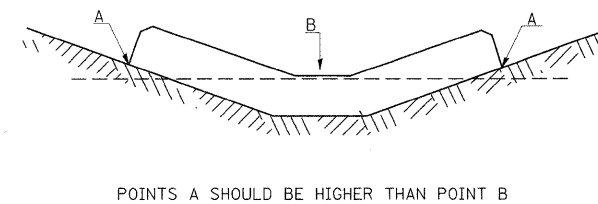
SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

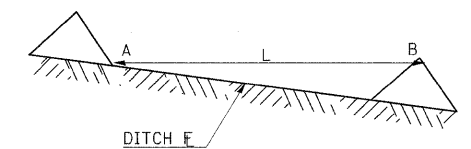
STD. 9-12

TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT IN CENTER OF CHECK

REVISIONS	
DRAWN	9-01-99
REVISED	10-3-01
REVISED	5-8-08
REVISED	05-04-10

STD. 9-108

FILE NAME =	USER NAME = naasdp	DESIGNED =	REVISED =
ct:\pw\work\p\rdot\naasdp\d0125145\d97811	E-shit_misc.dgn	DRAWN =	REVISED =
	PLOT SCALE = 5.0000" / IN.	CHECKED =	REVISED =
	PLOT DATE = 12/14/2010	DATE =	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

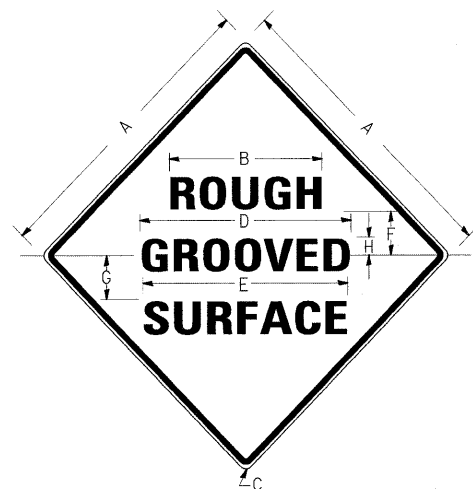
DETAILS SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N/L)	MASSAC	79	33
CONTRACT NO. 78116				
ILLINOIS FED. AID PROJECT				

ILLINOIS STANDARD

W8-I106



COLORS:

LEGEND AND BORDER- BLACK NON-REFLECTORIZED
BACKGROUND- ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MARGIN	BORDER	BLANK STD.
	1	2	3			
48X48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES

NOTES:

PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

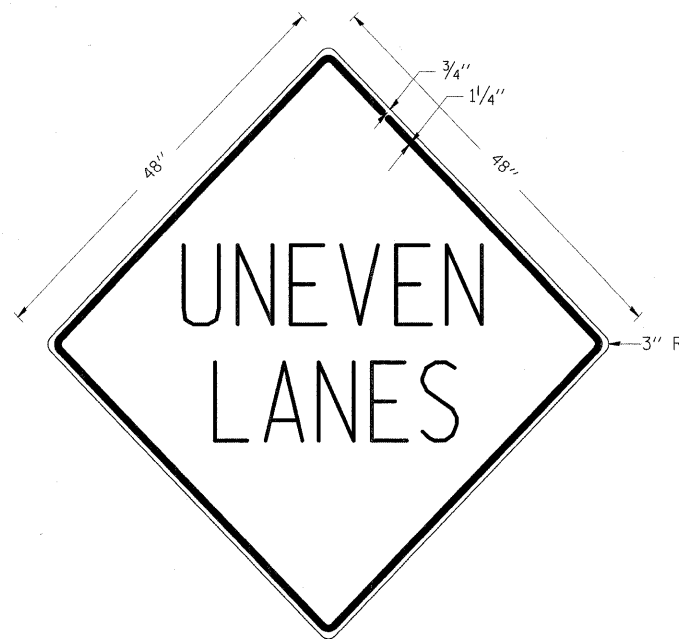
REVISIONS

REDRAWN	2-15-89
REVISED	4-6-93
REVISED	3-27-08
REVISED	

STD. 9-39

UNEVEN LANES SIGN

W8-11 (48" x 48")



COLORS:

LEGEND AND BORDER - BLACK NON-REFLECTORIZED
BACKGROUND - ORANGE REFLECTORIZED

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

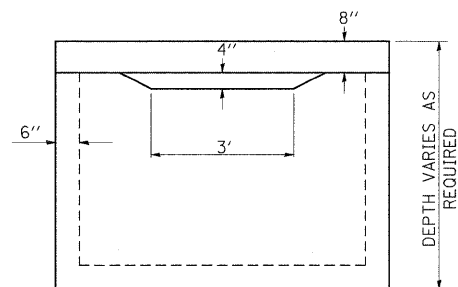
THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS

DRAWN	2-15-89
REVISED	4-06-93
REDESIGNED	7-23-04
RESIZED	5-08-08

STD. 9-41

BACK OF INLET SPECIAL TYPE 3

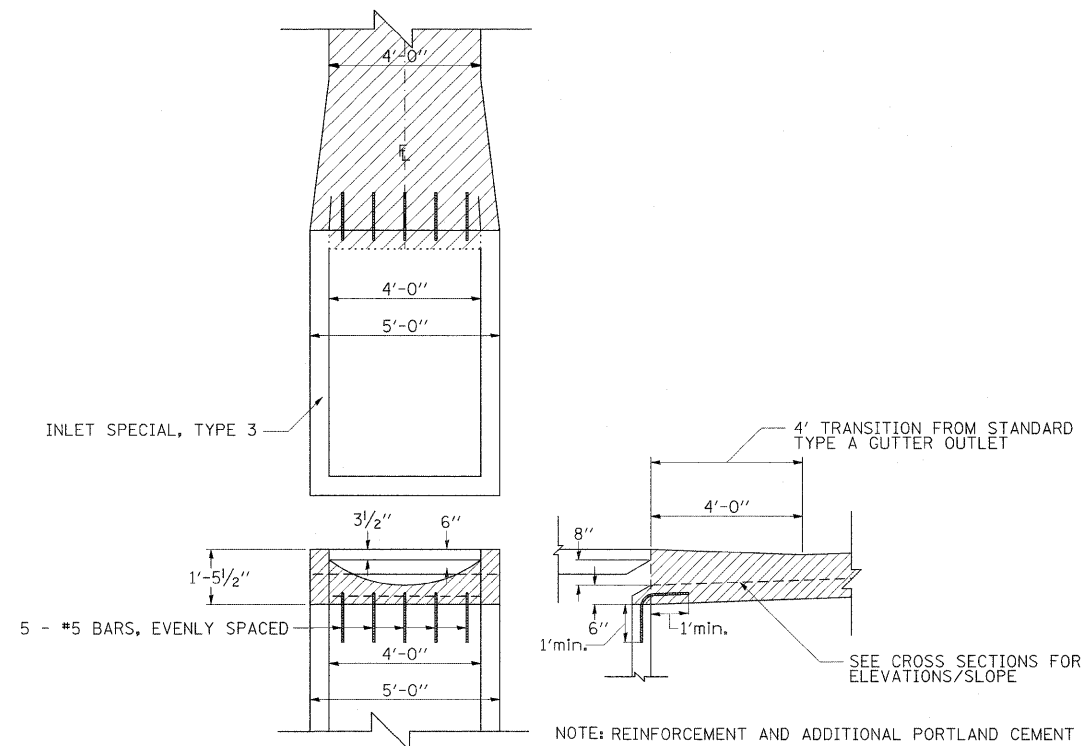


ELEVATION

TO BE USED:

STA 10+44.07, 30.07 LT. (POWERS CHURCH RD.)

DETAILS OF OUTLET SPECIAL FOR TYPE A GUTTER



NOTE: REINFORCEMENT AND ADDITIONAL PORTLAND CEMENT CONCRETE REQUIRED TO CONSTRUCT GUTTER TRANSITION WILL NOT BE PAID FOR SEPERATLY BUT BE INCLUDED IN THE COST OF CONCRETE GUTTER, TYPE A

FILE NAME =	USER NAME = nsoadp	DESIGNED -	REVISED -
ct:\pw_work\pwrtdot\neadp\d0125145\d978115.sht_misc.dgn		DRAWN -	REVISED -
	PLOT SCALE = 5.0000 "/td> <td>CHECKED -</td> <td>REVISED -</td>	CHECKED -	REVISED -
	PLOT DATE = 12/14/2010	DATE -	REVISED -

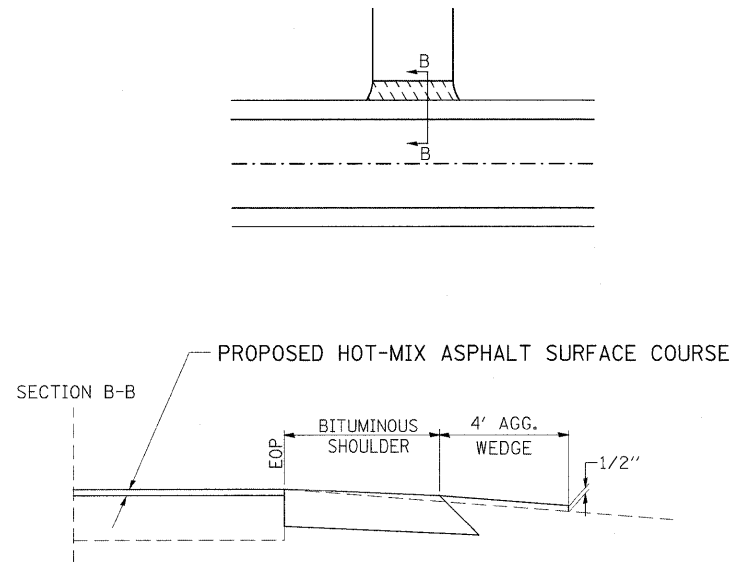
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS SHEET

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

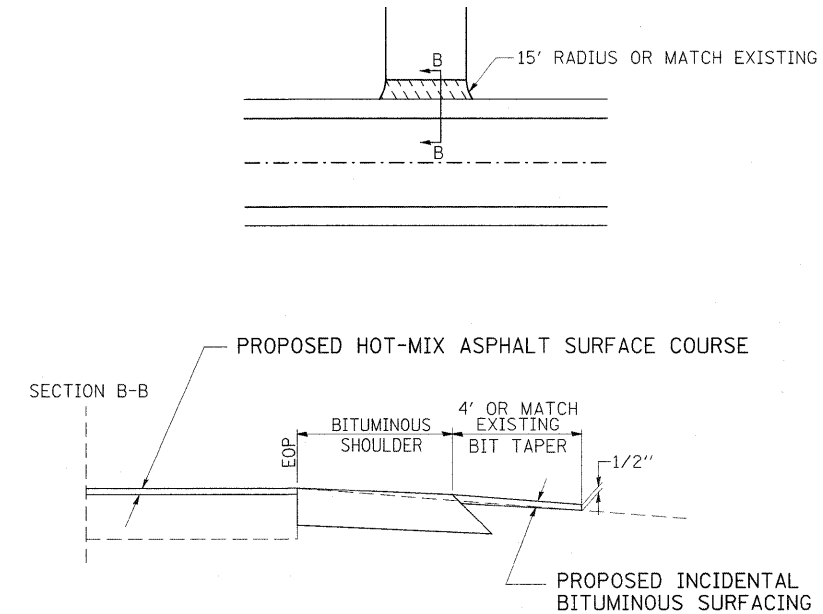
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N/L)	MASSAC	79	34
CONTRACT NO. 78116				
ILLINOIS FED. AID PROJECT				

**DETAIL OF AGGREGATE
PRIVATE ENTRANCE**



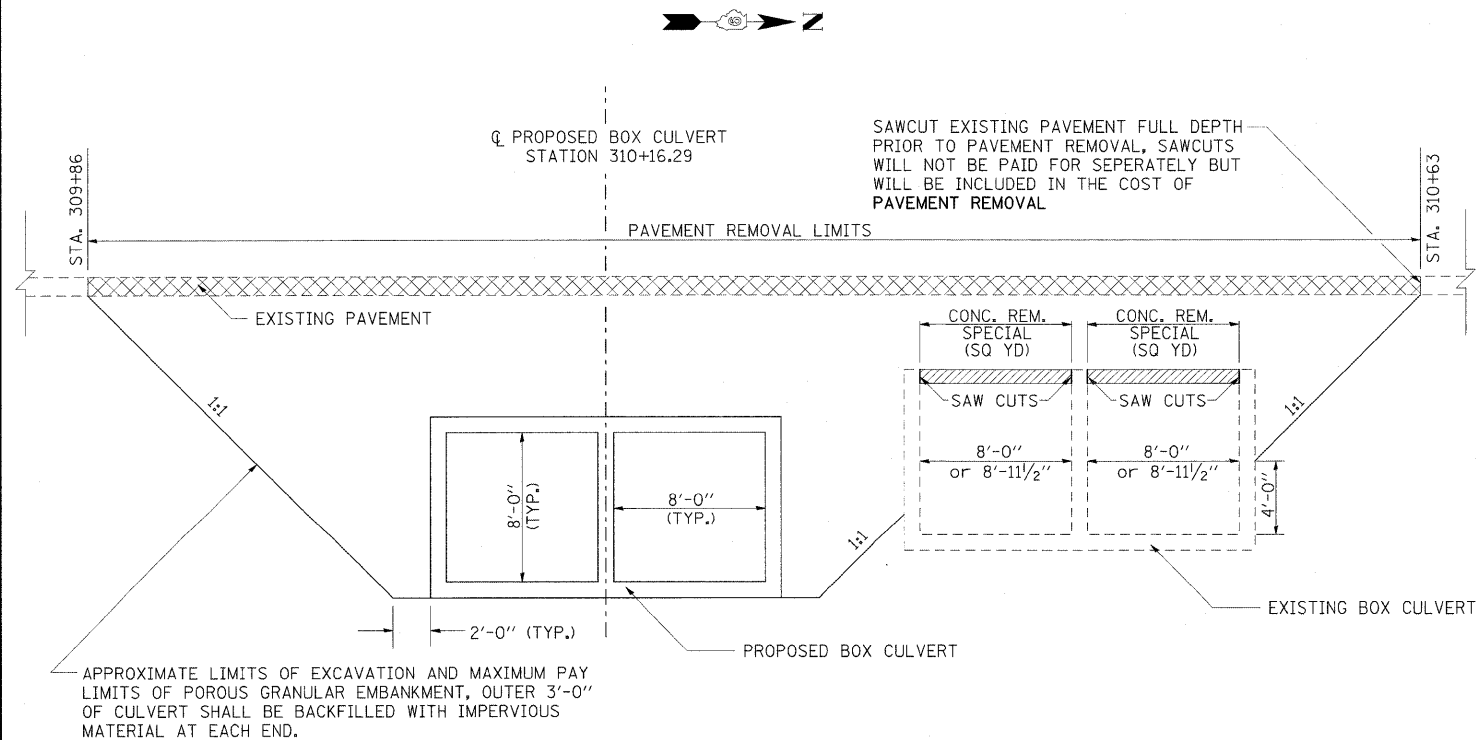
PREPARATION OF EXISTING SURFACE AND ANY EXCAVATION FOR ENTRANCES SHALL BE IN ACCORDANCE WITH ARTICLE 406.09 OF THE STANDARD SPECIFICATIONS.

**DETAIL OF BITUMINOUS
PRIVATE OR COMMERCIAL ENTRANCE**



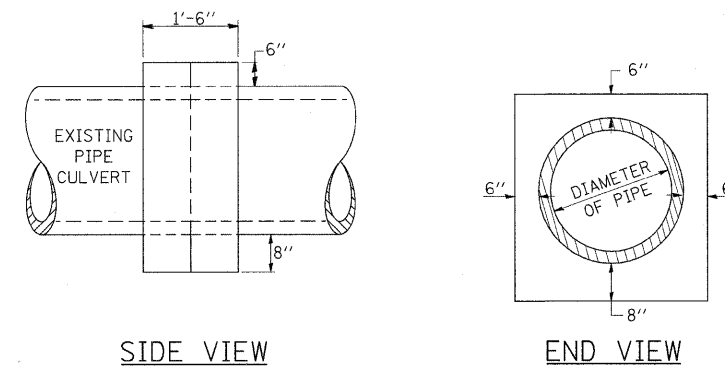
PREPARATION OF EXISTING SURFACE AND ANY EXCAVATION FOR ENTRANCES SHALL BE IN ACCORDANCE WITH ARTICLE 406.09 OF THE STANDARD SPECIFICATIONS.

**TYPICAL LIMITS OF POROUS GRANULAR EMBANKMENT &
CONCRETE REMOVAL SPECIAL**



NOTE: POROUS GRANULAR EMBANKMENT WILL BE CA7 OR CA11 WITH THE TOP 1' CONSISTING OF CA6 OR CA10

**DETAILS OF CONCRETE COLLAR
PIPE TO PIPE**



TABULATION

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.24
15"	0.29
18"	0.32
24"	0.44
30"	0.56
36"	0.66
42"	0.80
48"	0.93
54"	1.07
60"	1.22
72"	1.55

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

FILE NAME =	USER NAME = niasdp	DESIGNED -	REVISED -
ct\pw\work\p1dot\niasdp\d0125145\d97811	5_sht_misc.dgn	DRAWN -	REVISED -
PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 12/14/2010	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

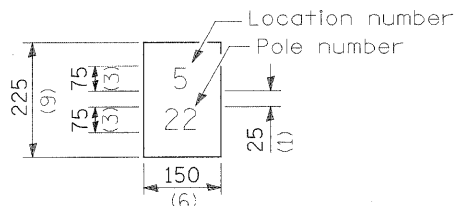
DETAILS SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N.L.)	MASSAC	79	35
CONTRACT NO. 78116			ILLINOIS FED. AID PROJECT	

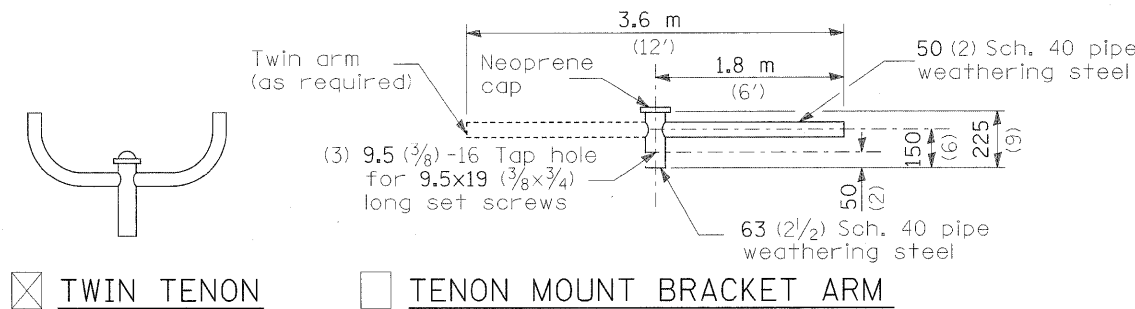
REVISIONS	
DRAWN	7-13-90
REVISED	8-22-94
REVISED	3-26-08
REVISED	

STD. 9-79



The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 75 (3) series "D", black, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements of section T602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

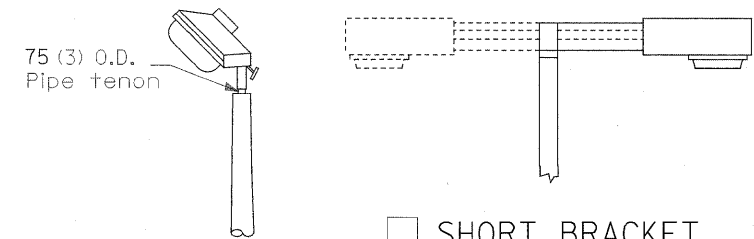
The light pole identification shall be applied to sign base material as specified in section 1069.06 of the Standard Specifications, approximately 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 720001.



TWIN TENON

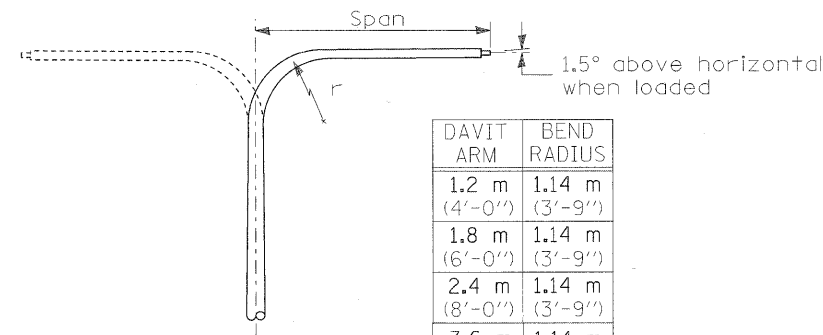
TENON MOUNT BRACKET ARM

NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.



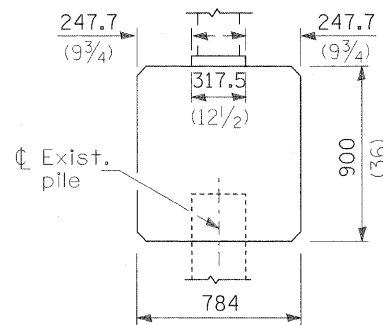
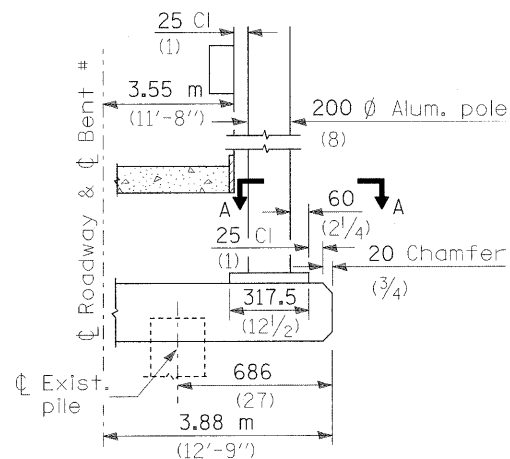
TENON

SHORT BRACKET
 SHORT BRACKET - TWIN

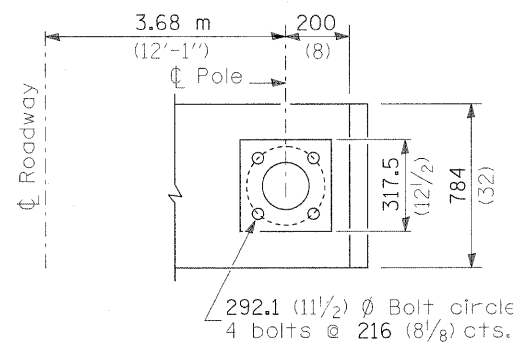


DAVIT ARM

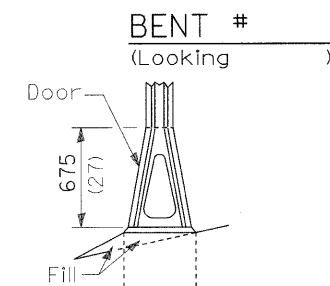
DAVIT ARM-TWIN



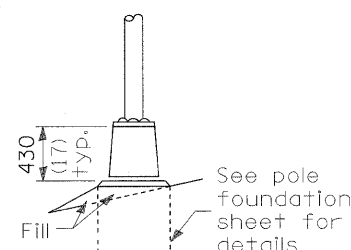
BRIDGE PIER MOUNT



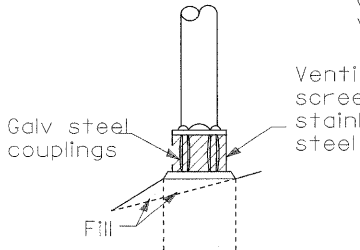
SECTION A-A



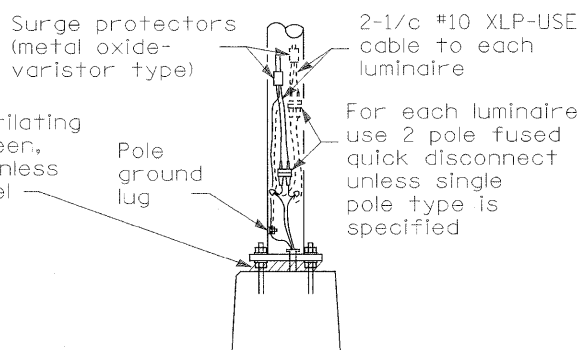
STAINLESS STEEL FLAIR BASE



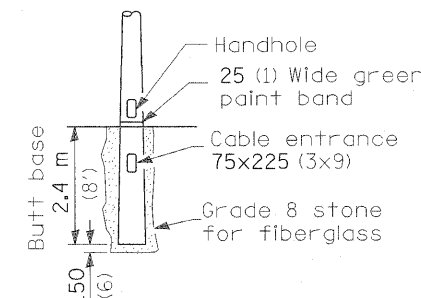
TRANSFORMER BASE



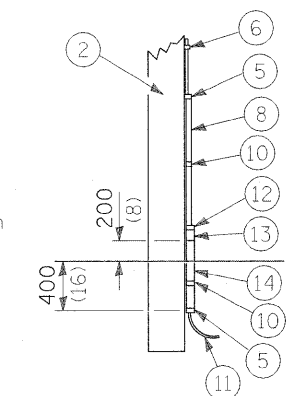
BREAKAWAY COUPLING



ANCHOR



BUTT BASE



POLE, WOOD

POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

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

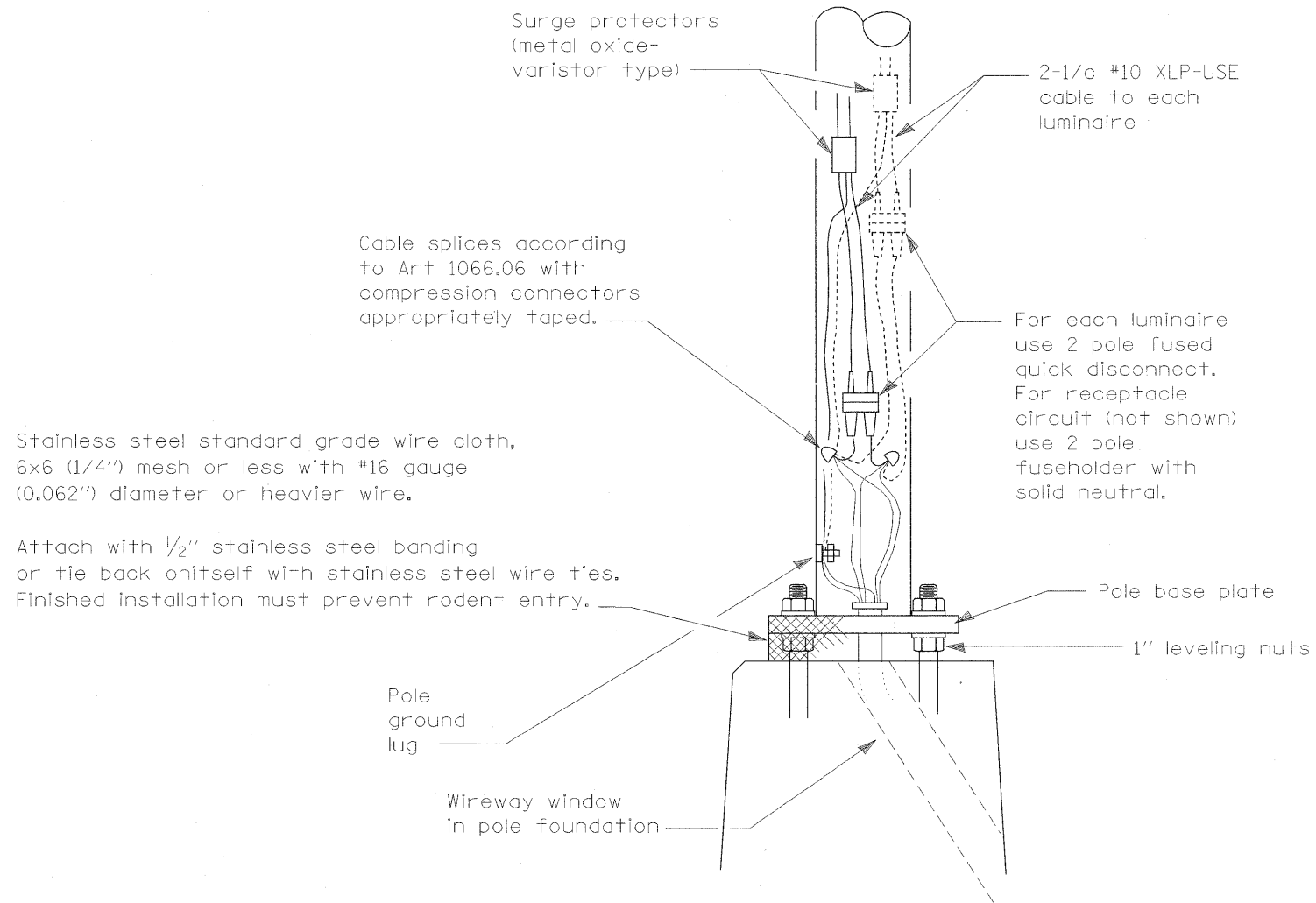
FRANGIBLE

METAL OR CONCRETE

Details for underground distribution if required

DATE	REVISIONS
	Corrected 6/24/09

POLE STANDARDS



WIRING DETAIL

NO SCALE

GENERAL NOTES

All taped splices shall use 2 layers of electrical tape over 3 layers of rubber tape as required by the Standard Specifications. Coat the finished taped splice with bonding compound.

All cable splices shall be taped unless another method has been specifically approved by the Engineer.

For example purposes the pole is shown on an anchor base. If the pole is required to be set on a breakaway base, consult the Standard Specifications.

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

DATE	REVISIONS	POLE HANDHOLE WIRING
7/31/08	Updated	

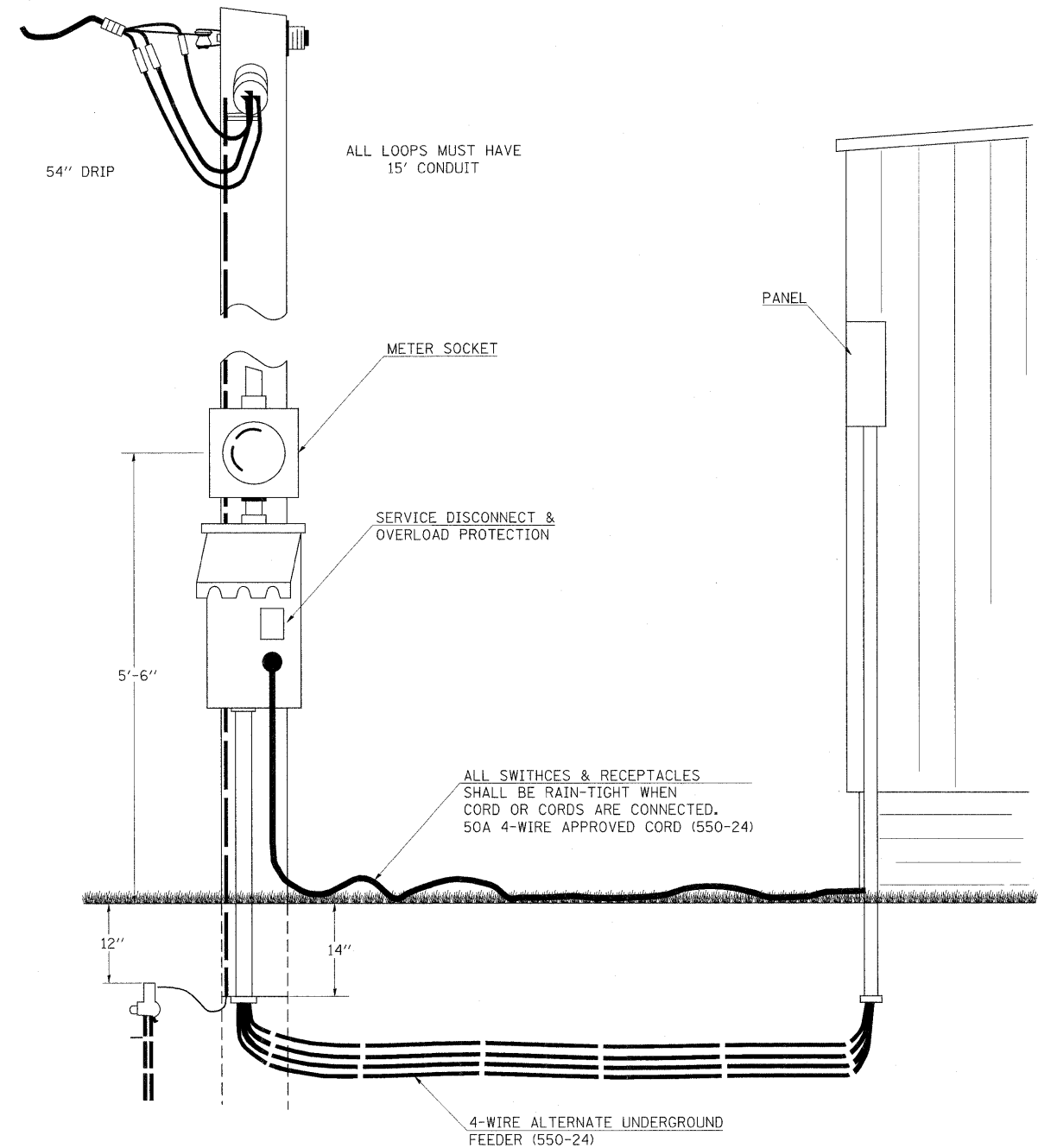
FILE NAME =	USER NAME = noosdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS SHEET				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ct\pw_work\pwidot\noosdp\d0125145\d978115_sht.msc.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	132	102 (N/L)	MASSAC	79	37
		PLOT SCALE = 5.0000 / / IN.	CHECKED -		REVISED -	CONTRACT NO. 78116									
		PLOT DATE = 12/14/2010	DATE -		REVISED -	ILLINOIS FED. AID PROJECT									

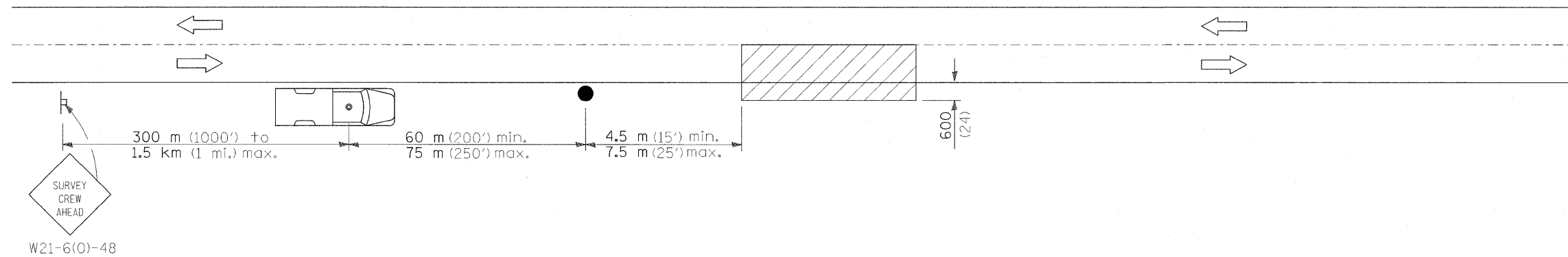
UNDERGROUND LOOPS - 3 WIRES

COPPER WIRE	60 AMP	100 AMP	200 AMP
CONDUIT SIZE	1 1/4"	1 1/2"	2"
WIRE SIZE (BASED ON THHN)	#6	#2	#3/0 & 1/0 NEUTRAL

USE ONLY COPPER WIRE AND ALUMINUM OR GALVANIZED CONDUIT.
ALUMINUM WIRE OR PVC CONDUIT WILL NOT BE ACCEPTED.


LOOPS MUST BE ASSEMBLED AND LAYING AT SITE. THE COOPERATIVE WILL INSTALL THE LOOP ON THE POLE.






SYMBOLS

 Work area

 Sign on portable or permanent support

 Truck with flashing amber light and dual emergency flashers

 Flagger with traffic control sign

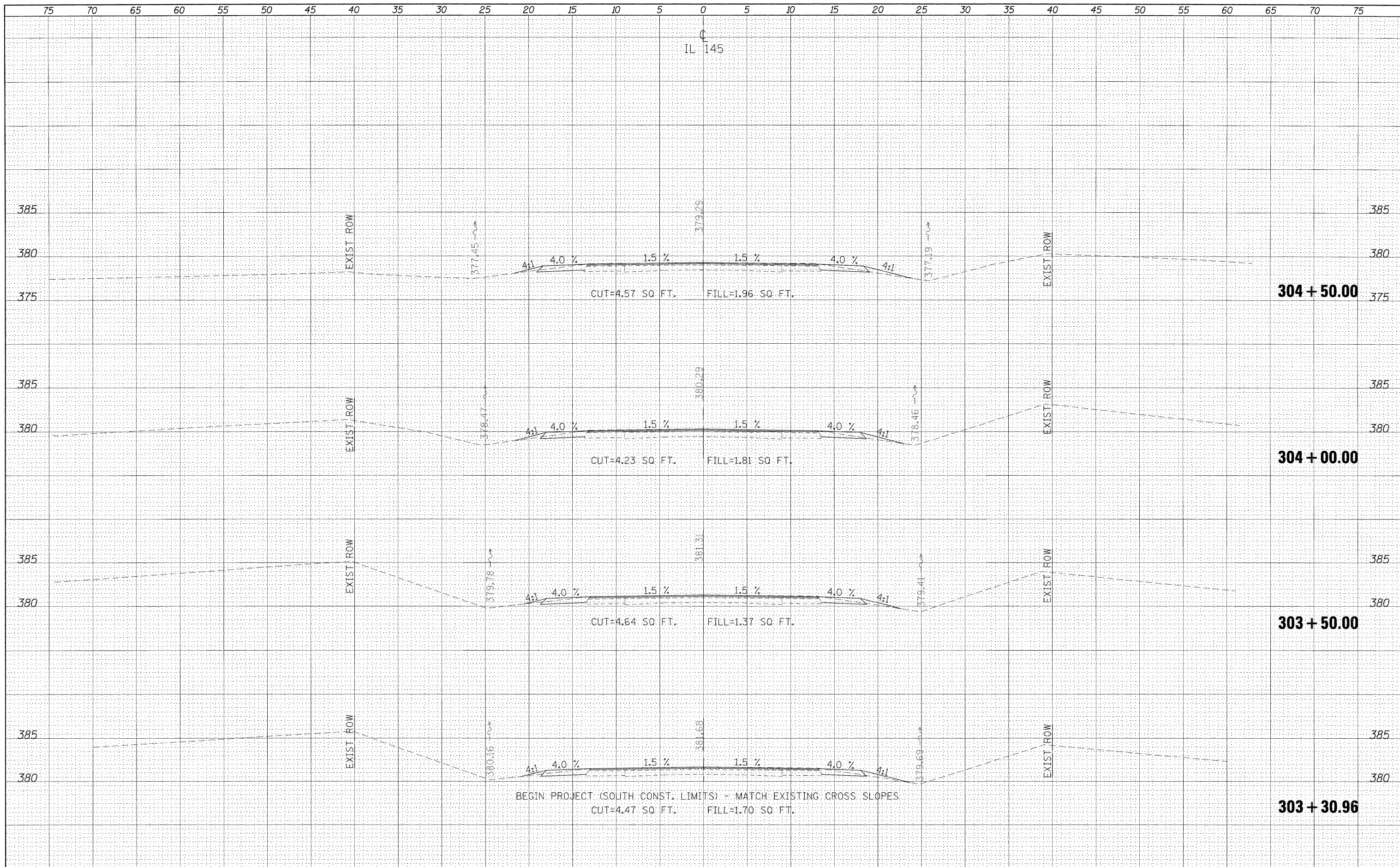
TYPICAL APPLICATIONS
Utility operations

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

DATE	REVISIONS

DETAIL FOR
NIGHTTIME LIGHTING
INSPECTION

FILE NAME =	USER NAME = neasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS SHEET			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwidot\neasdp\d0125145\d97811	6_sht_misc.dgn	DRAWN -	REVISED -					132	102 (NLI)	MASSAC	79	39
	PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 78116				
	PLOT DATE = 12/14/2010	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



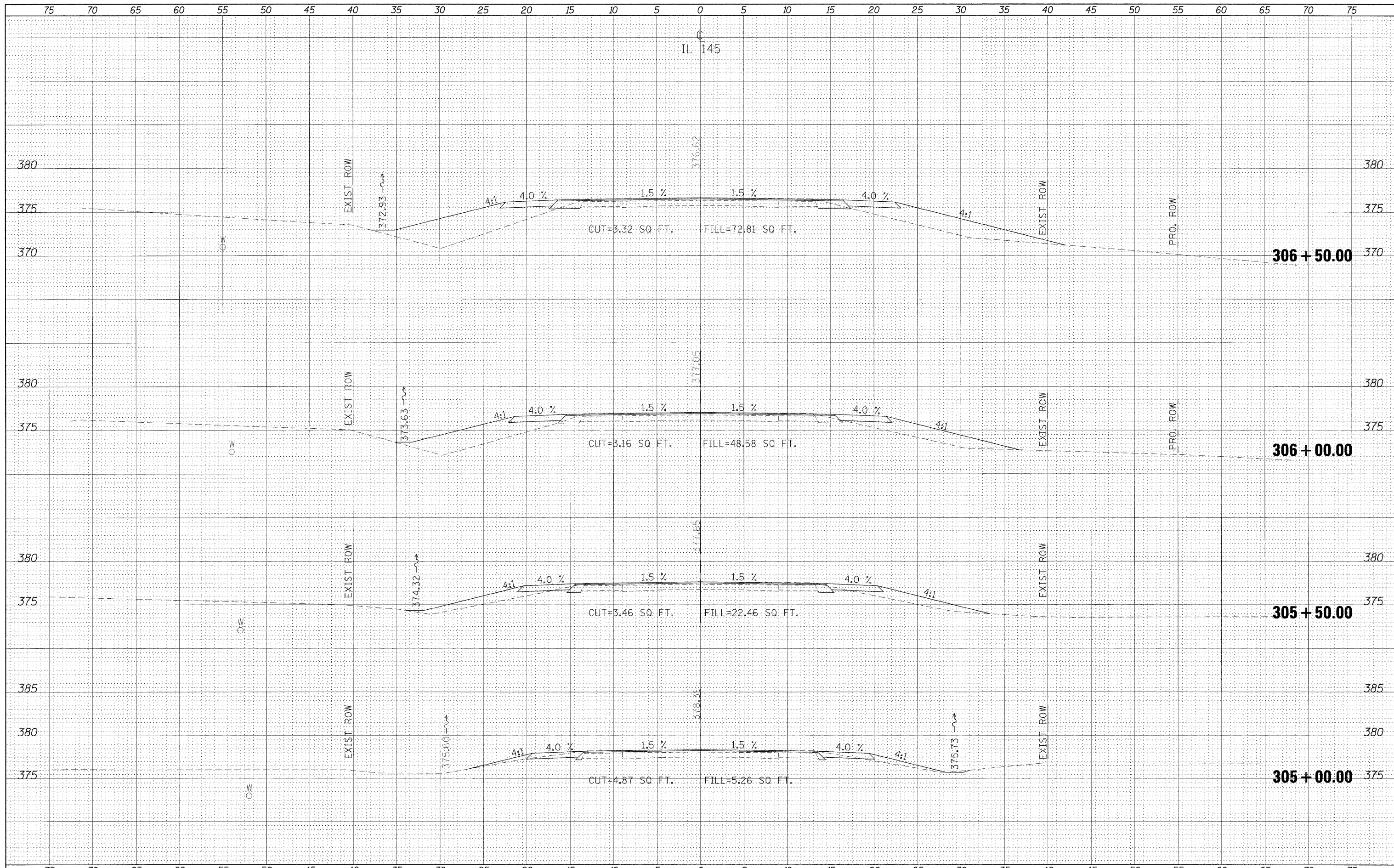
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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

FILE NAME =	USER NAME = nsaasp	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 145				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ea:\pw\work\p\dot\nsaasp\48125145\4978116.sht	145.dgn	DRAWN -	REVISD -						132	102 (N/L)	MASSAC	79	40
	PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISD -		SCALE:	SHEET NO.	OF	SHEETS	STA. 303+30.96	TO STA. 304+50.00	CONTRACT NO.	78116	
	PLOT DATE = 12/16/2010	DATE -	REVISD -		ILLINOIS FED. AID PROJECT								

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

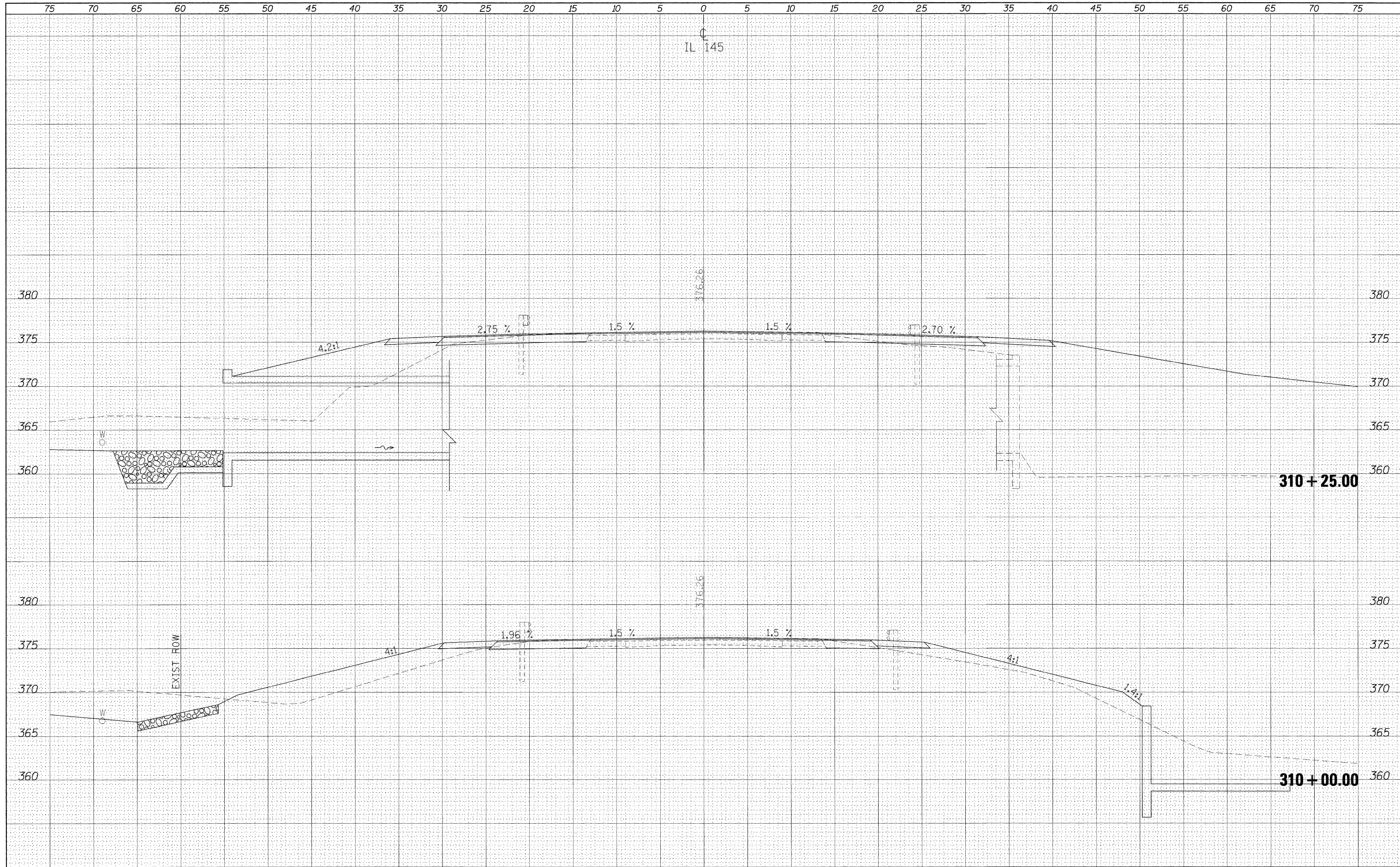
DATE: _____
 BY: _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



FILE NAME =	USER NAME = naasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 145				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
es:\pwwork\pwwork\naasdp\d0125145\d978116.aht...	145.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 305+00.00	TO STA. 306+50.00	132	102 (N/L)	MASSAC	79	41
	PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -												
	PLOT DATE = 12/16/2010	DATE -	REVISED -												
											CONTRACT NO. 78116			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



FILE NAME = c:\pw_work\p\dot\neesdp\d0125145\d978116.sht
 USER NAME = neesdp
 PLOT SCALE = 5.0000' / IN.
 PLOT DATE = 12/16/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

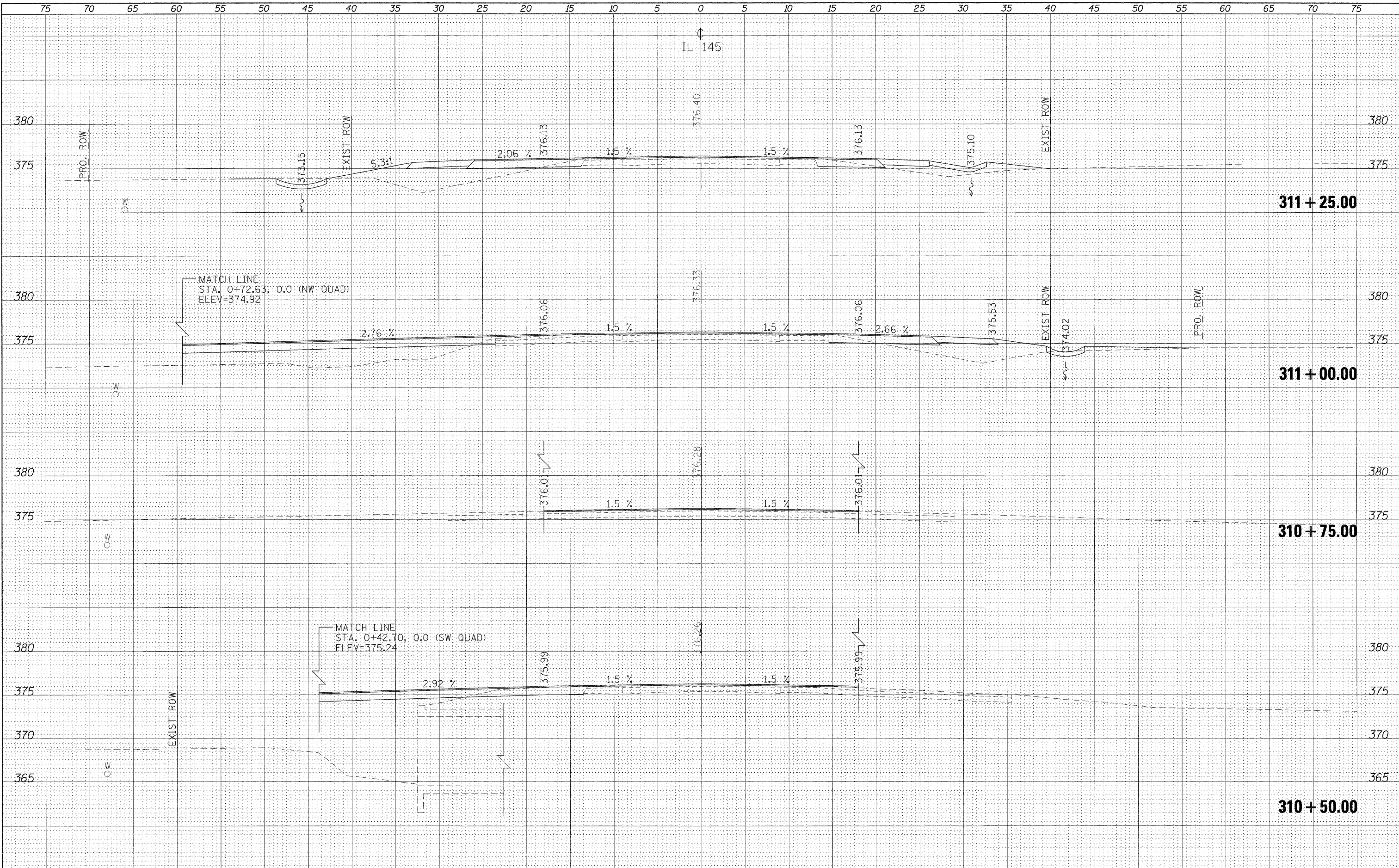
REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IL 145

SCALE: SHEET NO. OF SHEETS STA. 310+00.00 TO STA. 310+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	44
CONTRACT NO. 78116			ILLINOIS FED. AID PROJECT	



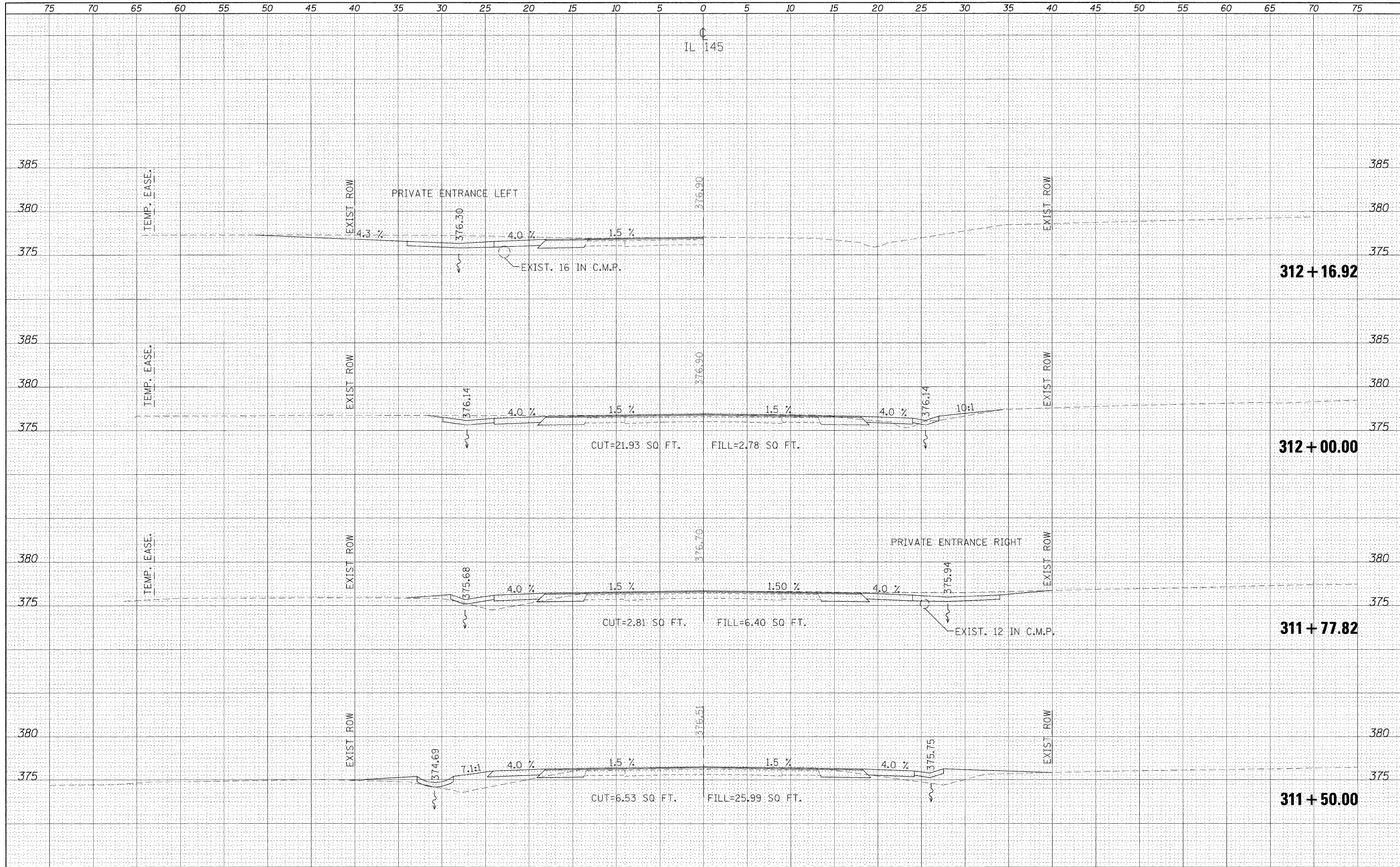
DATE	BY
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AREAS CHECKED	
TEMPLATE	
NOTE BOOK	
SURVEY	
FINAL	

DATE	BY
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AREAS CHECKED	
TEMPLATE	
NOTE BOOK	
SURVEY	
ORIGINAL	

FILE NAME =	USER NAME = nsaasp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 145				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pds\d\saasp\d8125145\d978116.sh.t_x145.dgn		DRAWN -	REVISED -		132	102 (N,L)	MASSAC	79	45				
PLOT SCALE = 5.0000 "/td> <td></td> <td>CHECKED -</td> <td>REVISED -</td> <td colspan="4" style="text-align: center;">SCALE: SHEET NO. OF SHEETS STA. 310+50.00 TO STA. 311+25.00</td> <td colspan="2" style="text-align: center;">CONTRACT NO. 78116</td>		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 310+50.00 TO STA. 311+25.00				CONTRACT NO. 78116				
PLOT DATE = 12/16/2010		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

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

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



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PROJECT NO. = 145.dgn
 PLOT SCALE = 5.0000' / IN.
 PLOT DATE = 12/16/2010

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

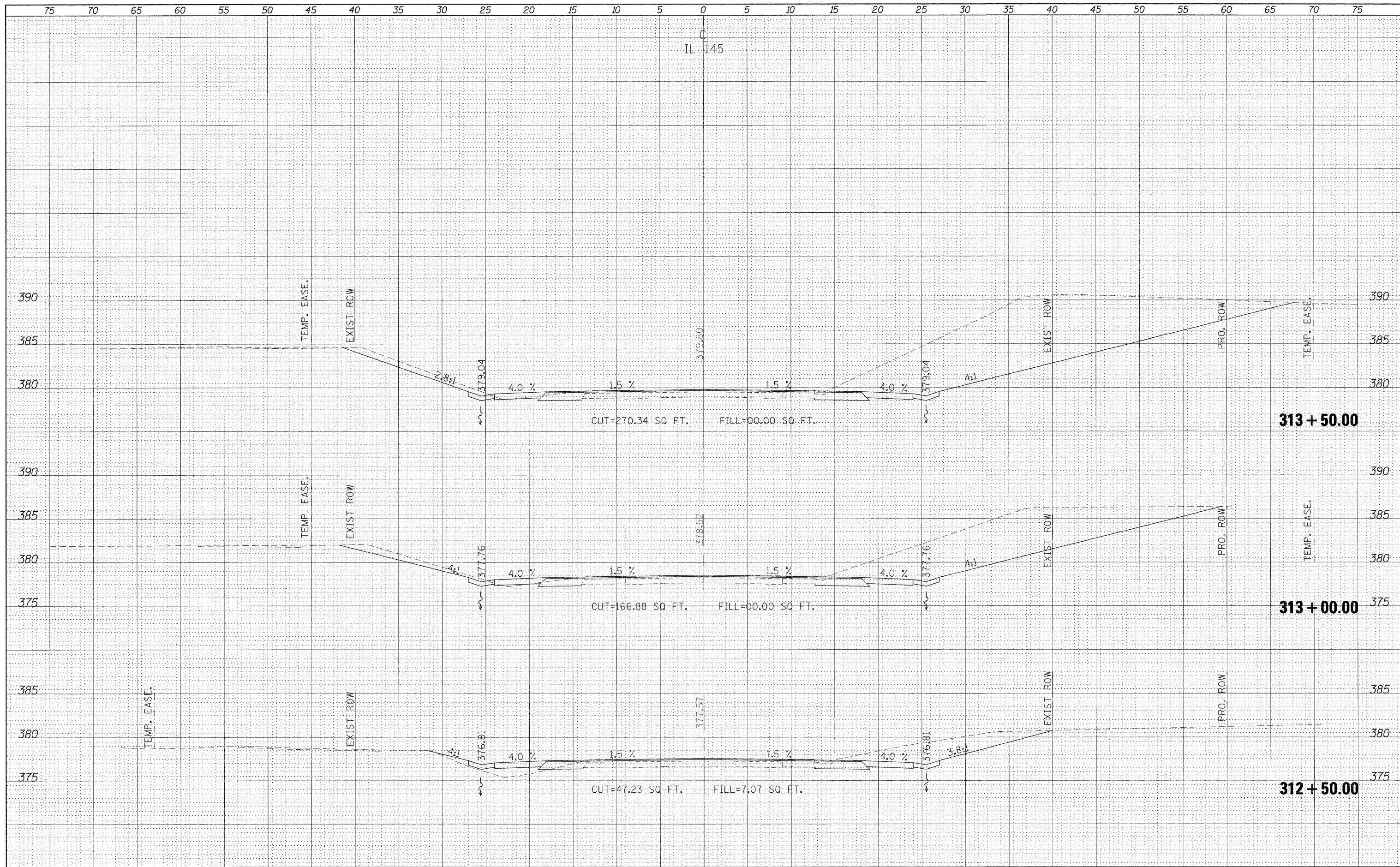
CROSS SECTIONS - IL 145

SCALE: SHEET NO. OF SHEETS STA. 311+50.00 TO STA. 312+16.92

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	46
CONTRACT NO.			78116	
ILLINOIS FED. AID PROJECT				

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



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 PLOT SCALE = 5.0000' / IN.
 PLOT DATE = 12/16/2010

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

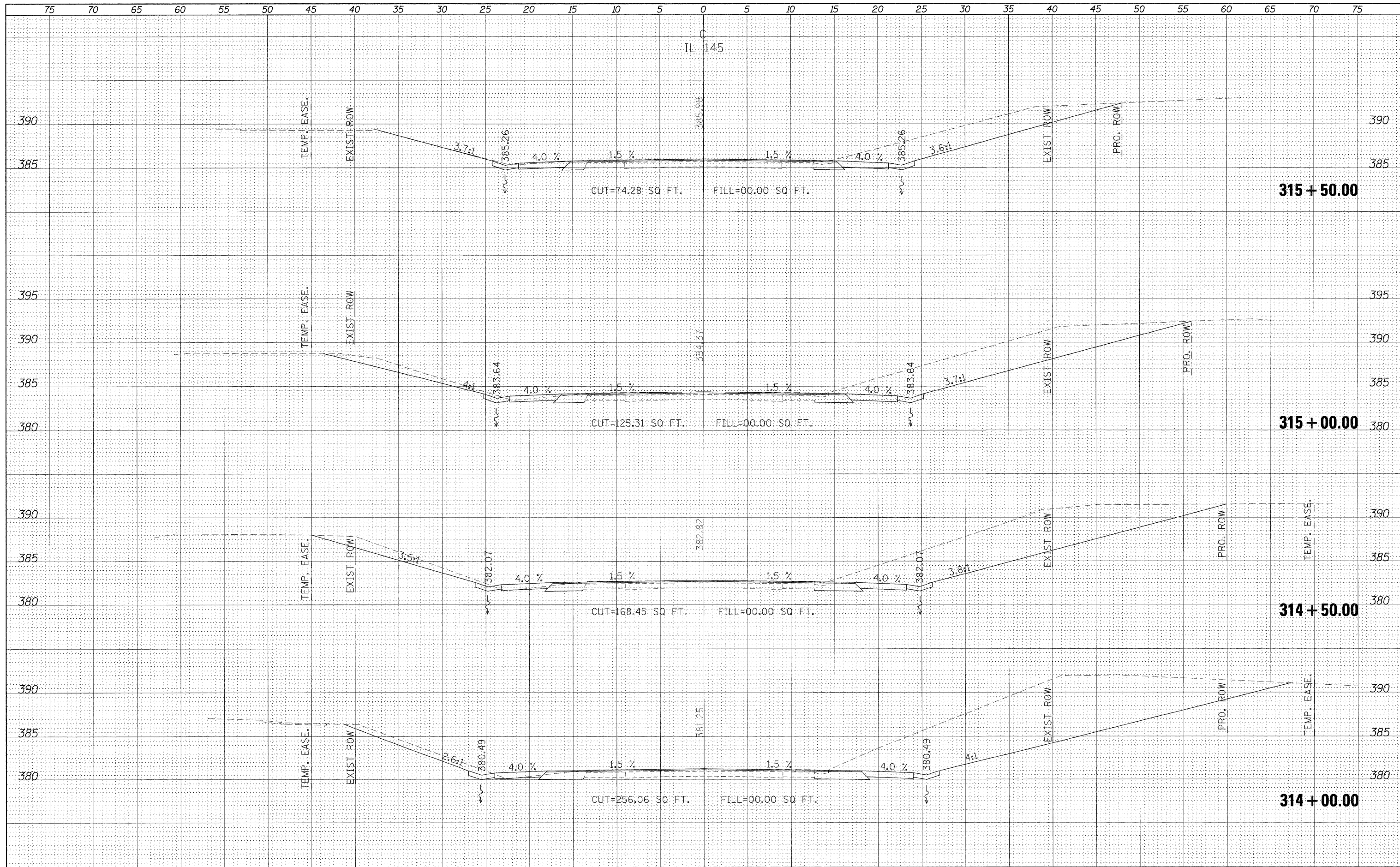
CROSS SECTIONS - IL 145

SCALE: SHEET NO. OF SHEETS STA. 312+50.00 TO STA. 313+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	47
CONTRACT NO. 78116			ILLINOIS FED. AID PROJECT	

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NOTE BOOK	PLOTTED
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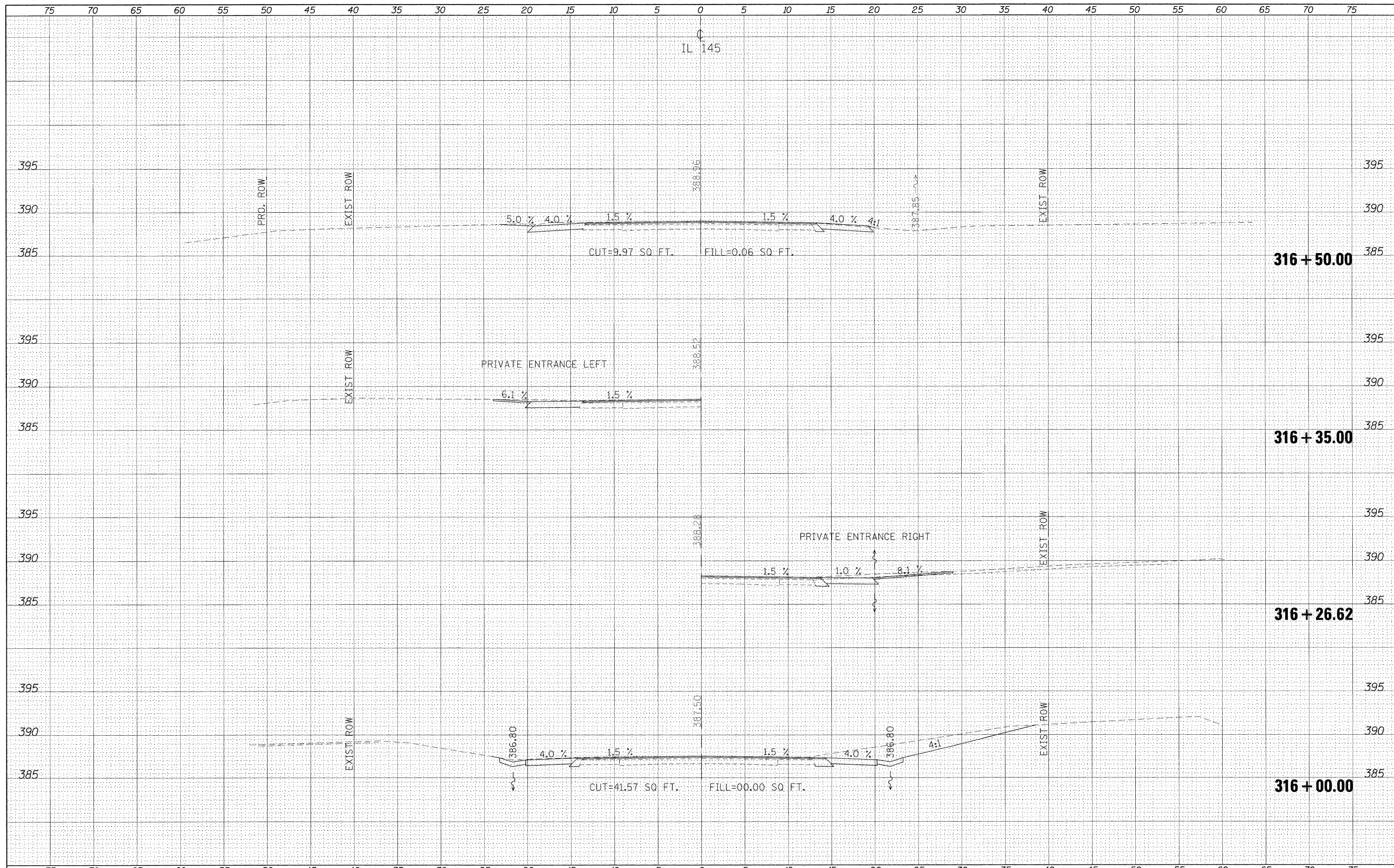
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
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FILE NAME =	USER NAME = nsaasp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 145			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
ct:\pw_work\pudot\neaasp\d8125145\d978116.sht	145.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 314+00.00	TO STA. 315+50.00	132	102 (N,L)	MASSAC	79	48
	PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -										CONTRACT NO.	78116	
	PLOT DATE = 12/16/2010	DATE -	REVISED -										ILLINOIS FED. AID PROJECT		

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

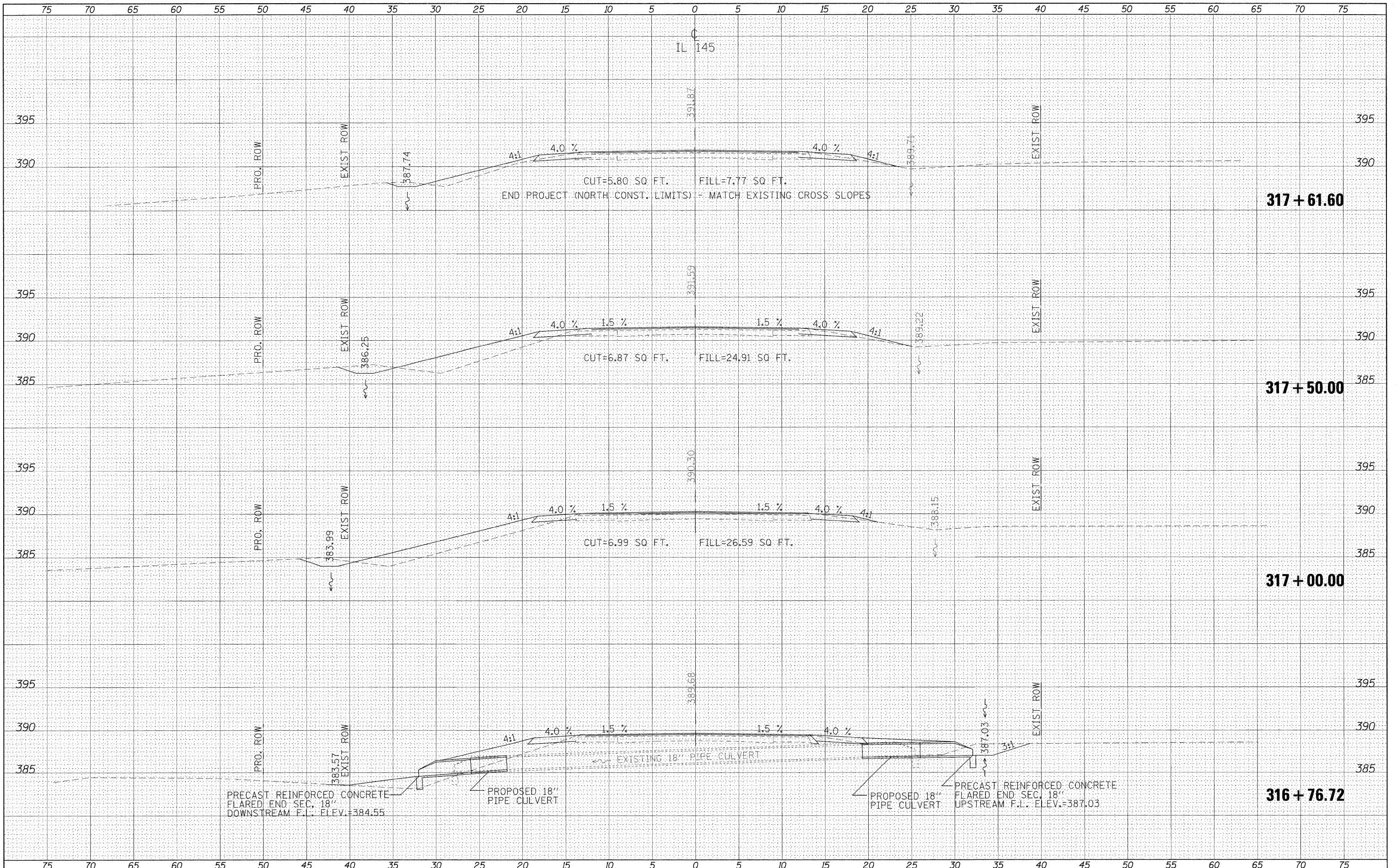
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NOTE BOOK	PLOTTED
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	AREAS CHECKED



FILE NAME =	USER NAME = naasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IL 145				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ci:\pw\work\p12dot\naasdp\d0125145\d978116_sht...145.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 316+00.00	TO STA. 316+50.00	132	102 (N/L)	MASSAC	79	49
		CHECKED -	REVISED -												
		DATE = 12/16/2010	REVISED -												
											CONTRACT NO. 78116			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	PLOTTED	DATE
NOTE BOOK	TEMP	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE
NOTE BOOK	TEMP	AREAS CHECKED	



FILE NAME =
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 PLOT DATE = 12/16/2010

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

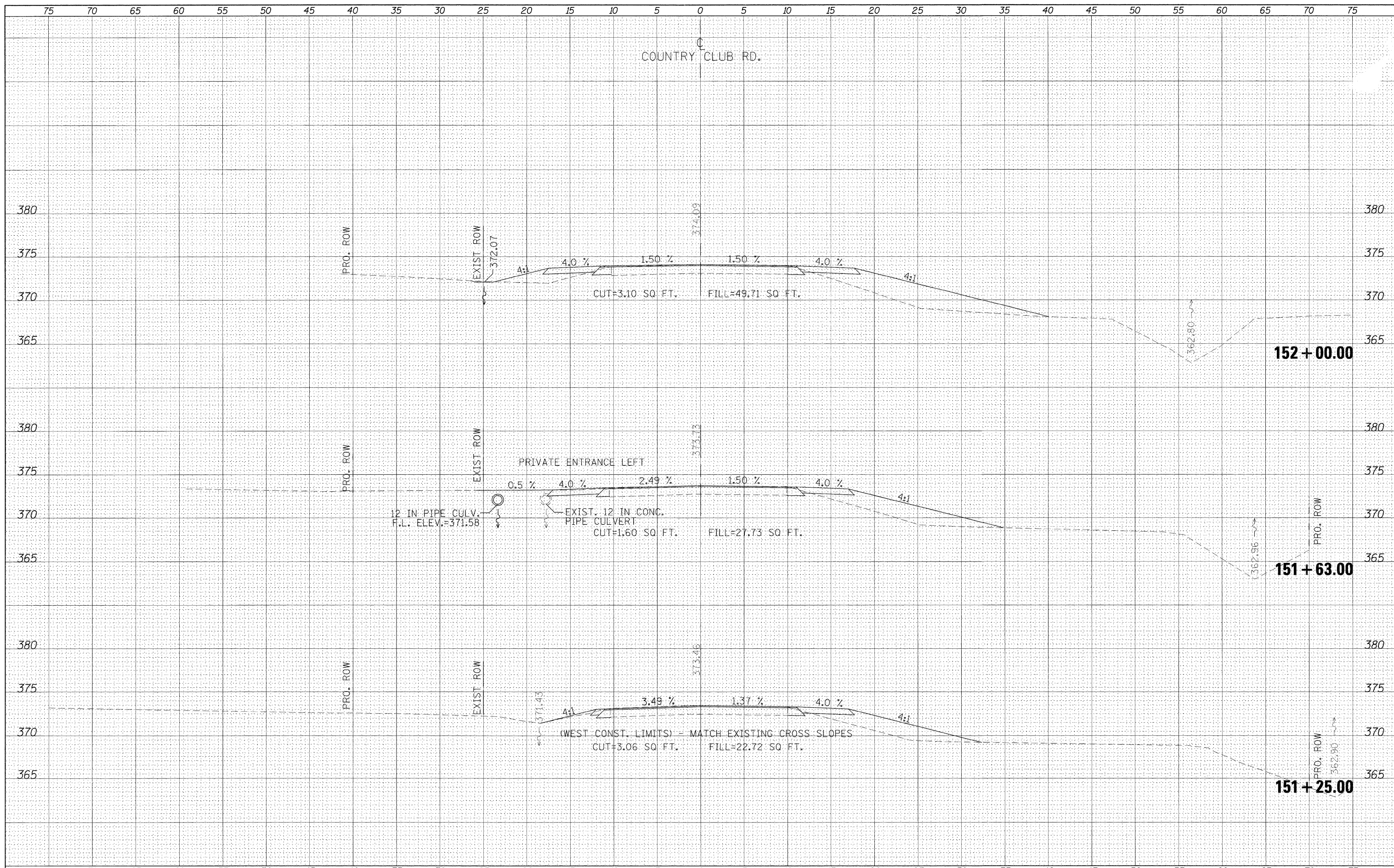
CROSS SECTIONS - IL 145

SCALE: SHEET NO. OF SHEETS STA. 316+76.72 TO STA. 317+61.60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	50
			CONTRACT NO. 78116	
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED

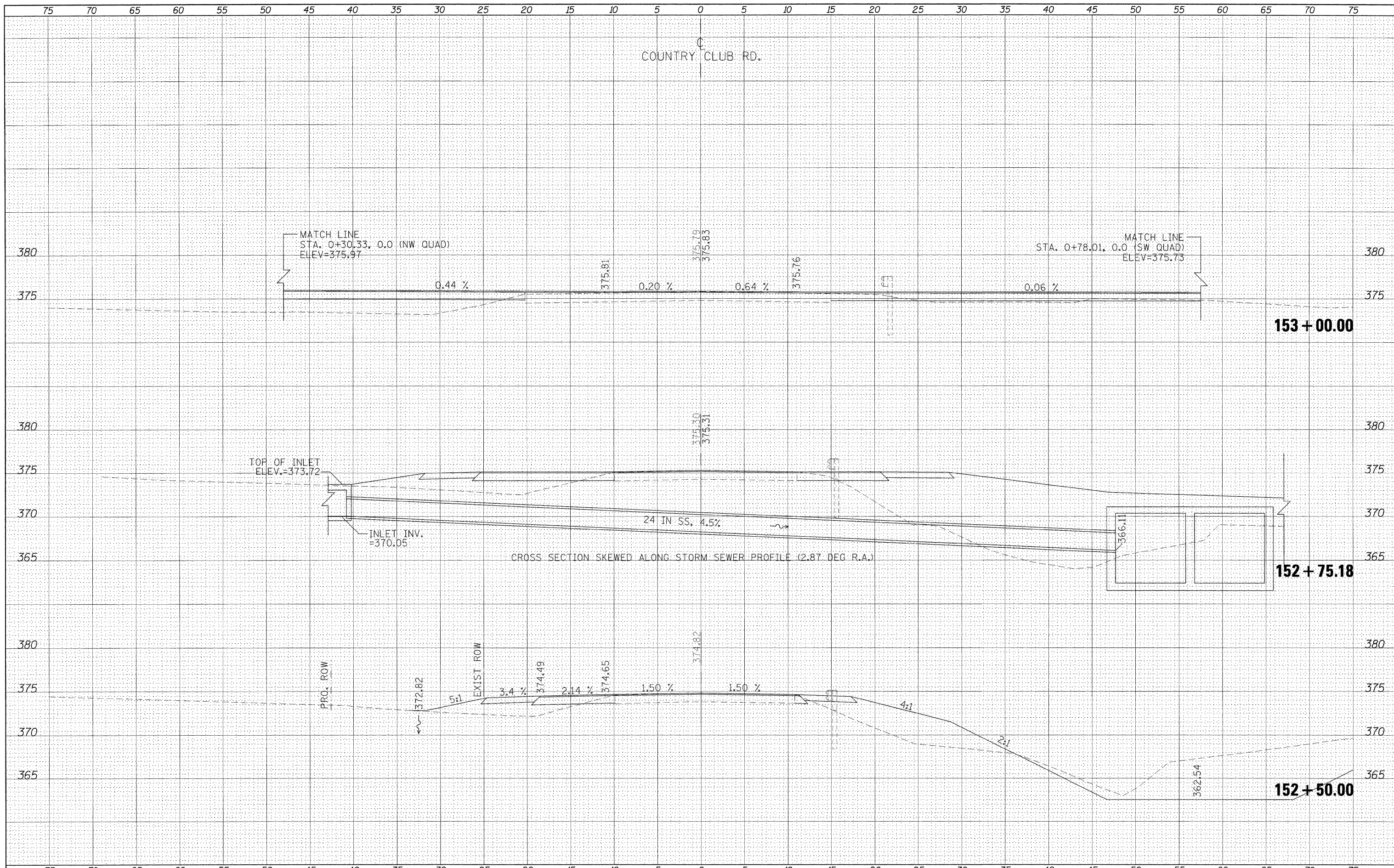
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
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FILE NAME =	USER NAME = neasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - COUNTRY CLUB RD.				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
et:\pw_work\puidot\neasdp\20125145\d978116.sht.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 151+25.00	TO STA. 152+00.00	132	102 (N.L.)	MASSAC	79	51
		CHECKED -	REVISED -						CONTRACT NO. 78116						
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT						

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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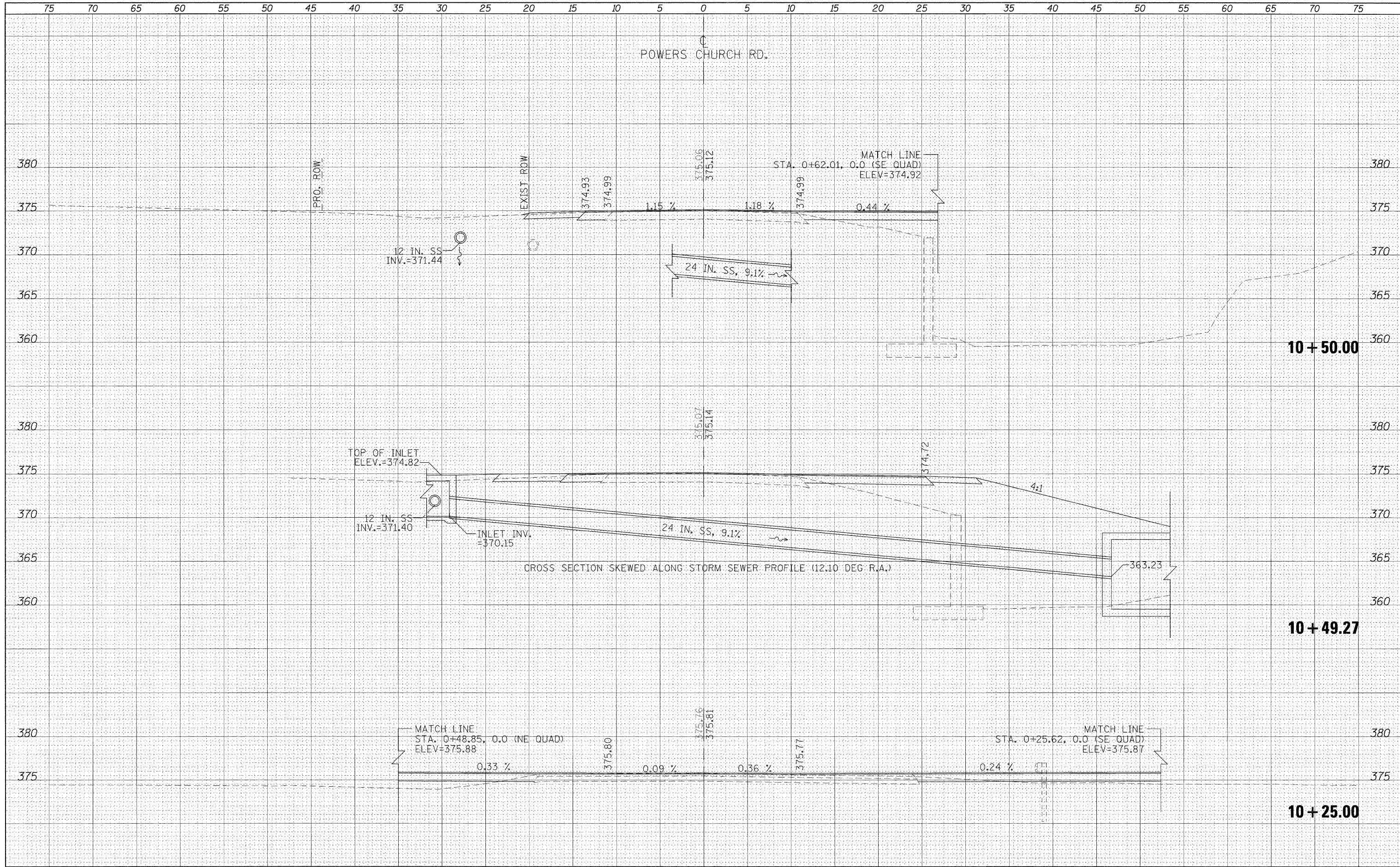
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME =	USER NAME = nnaasp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - COUNTRY CLUB RD.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ex:\pw\work\p\dot\naasp\d8125145\d978116_sht.dgn	ocrd.dgn	DRAWN -	REVISED -			132	102 (N/L)	MASSAC	79	52	
PLOT SCALE = 5/8" = 1' IN.	CHECKED -	REVISED -	SCALE: 1"=5'			SHEET NO.	OF SHEETS	STA. 152+50.00 TO STA. 153+00.00	CONTRACT NO. 78116		
PLOT DATE = 12/16/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

BY	DATE
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NOTE BOOK	
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NOTE BOOK	
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USER NAME = naasdp
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 PLOT DATE = 12/16/2010

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

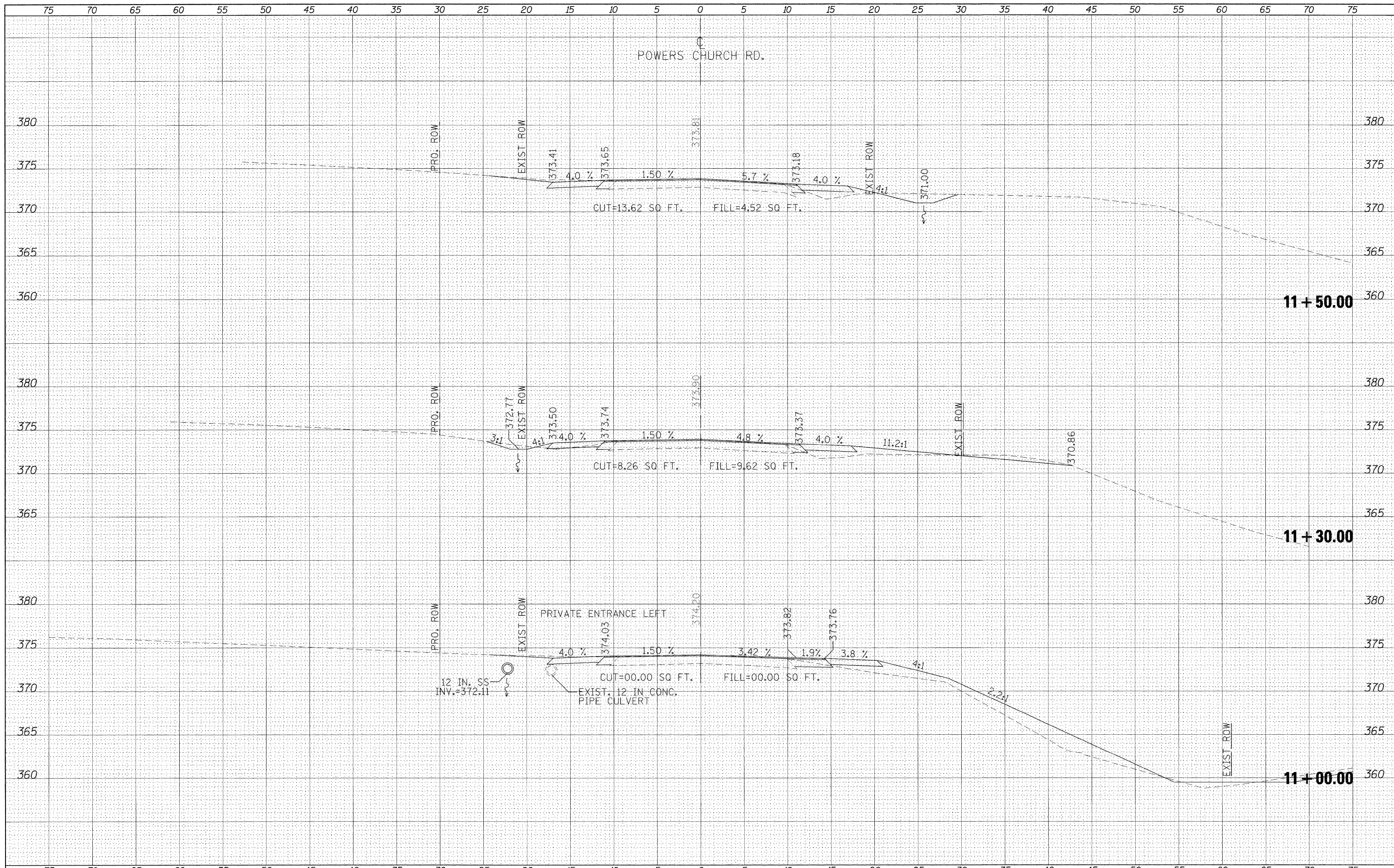
CROSS SECTIONS - POWERS CHURCH RD.

SCALE: SHEET NO. OF SHEETS STA. 10+25.00 TO STA. 10+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	53
CONTRACT NO. 78116				
ILLINOIS FED. AID PROJECT				

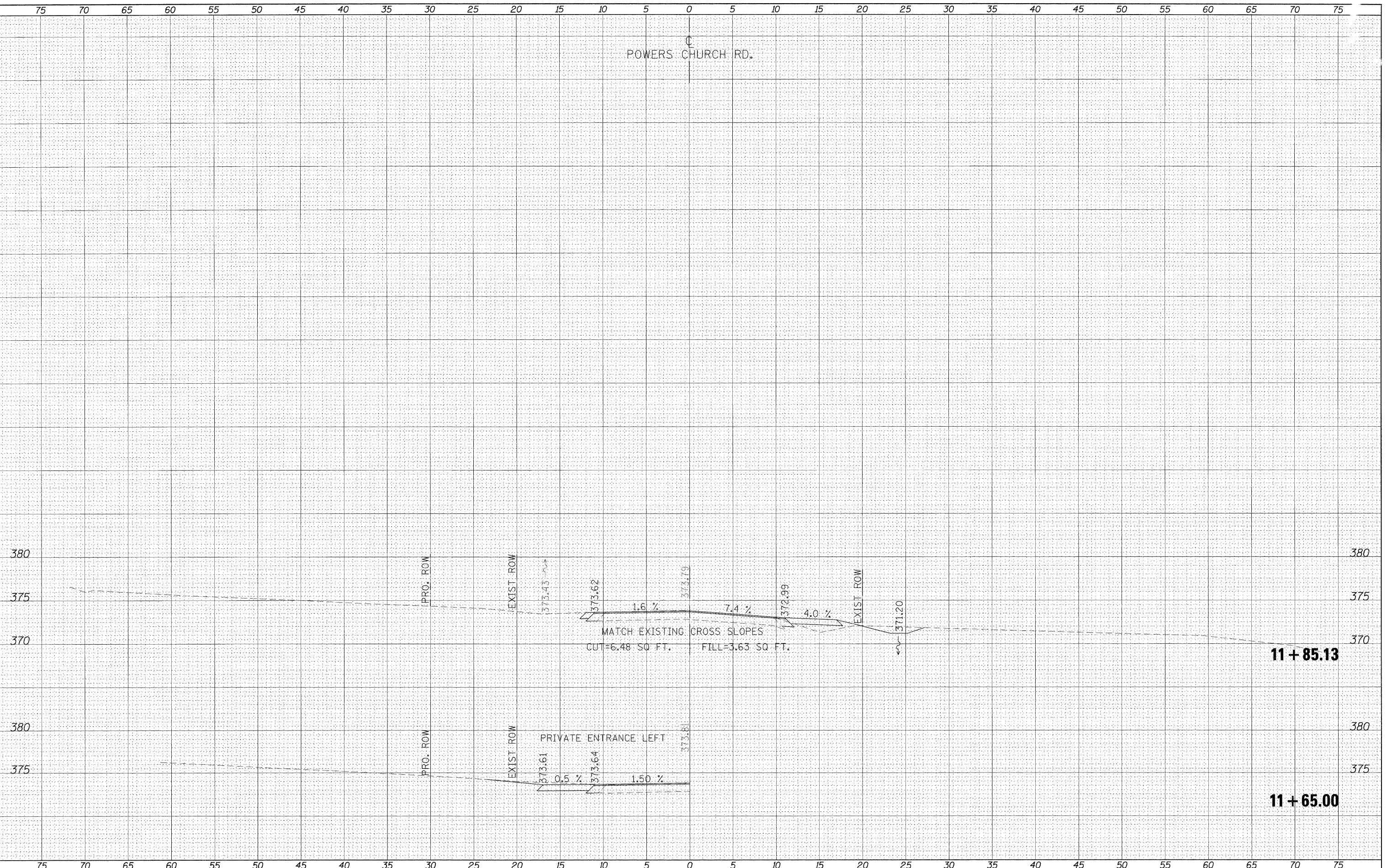
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FILE NAME =	USER NAME = naasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - POWERS CHURCH RD.				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pw\work\p\dot\naasdp\d8125145\d978116.sht.x	-powers.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 11+00.00	TO STA. 11+50.00	132	102 (N/L)	MASSAC	79 54
		PLOT SCALE = 5.0000' / IN.	CHECKED -											CONTRACT NO. 78116
		PLOT DATE = 12/16/2010	DATE -											ILLINOIS FED. AID PROJECT

POWERS CHURCH RD.



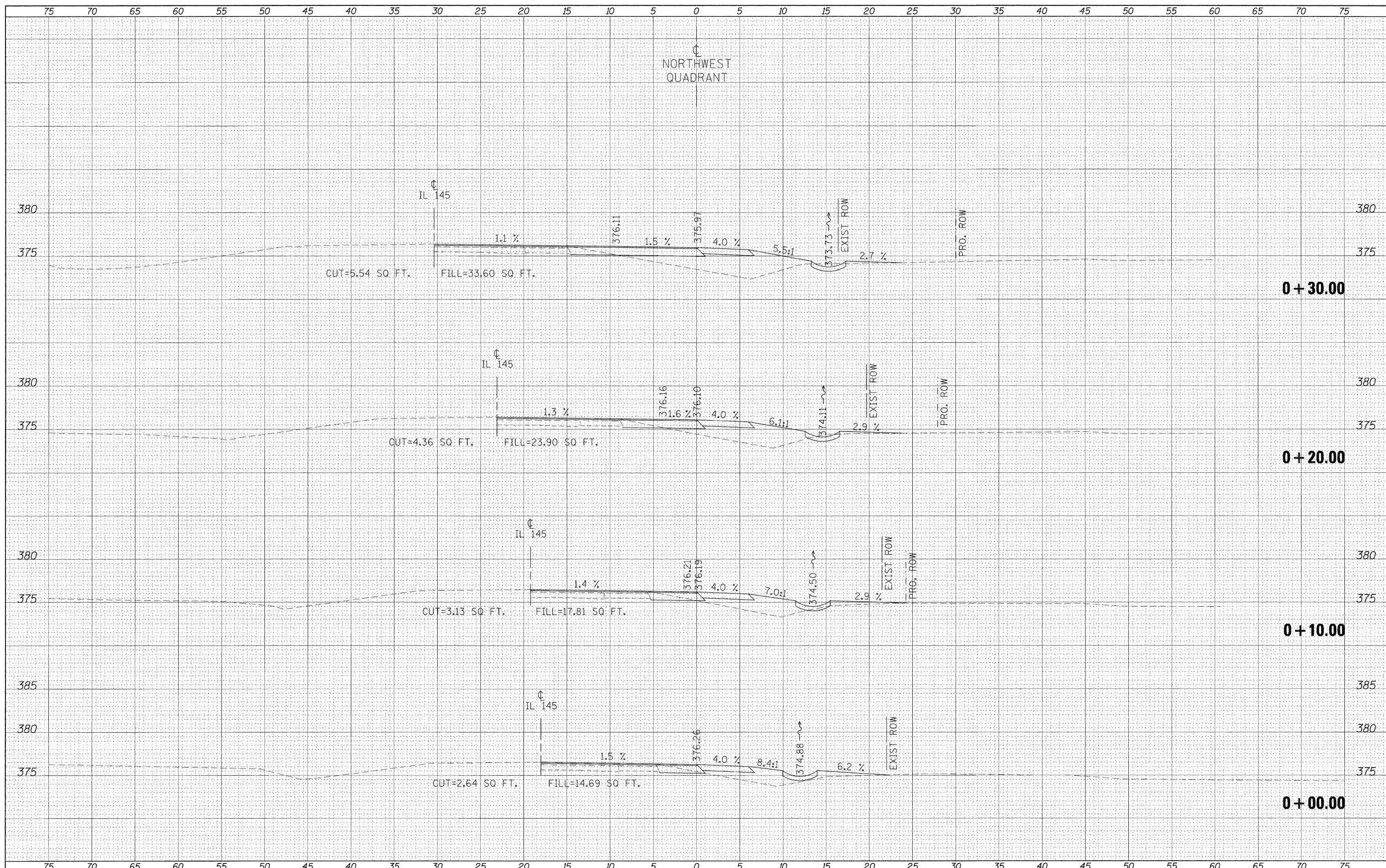
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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

FILE NAME =	USER NAME = noasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - POWERS CHURCH RD.			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw_work\puidot\noasdp\ad0125145\d978116.sht...	-powers.dgn	DRAWN -	REVISED -					132	102 (N/L)	MASSAC	79	55	
	PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -					CONTRACT NO. 78116					
	PLOT DATE = 12/16/2010	DATE -	REVISED -					ILLINOIS FED. AID PROJECT					
				SCALE:			SHEET NO.	OF	SHEETS	STA. 11+65.00	TO STA. 11+85.13		

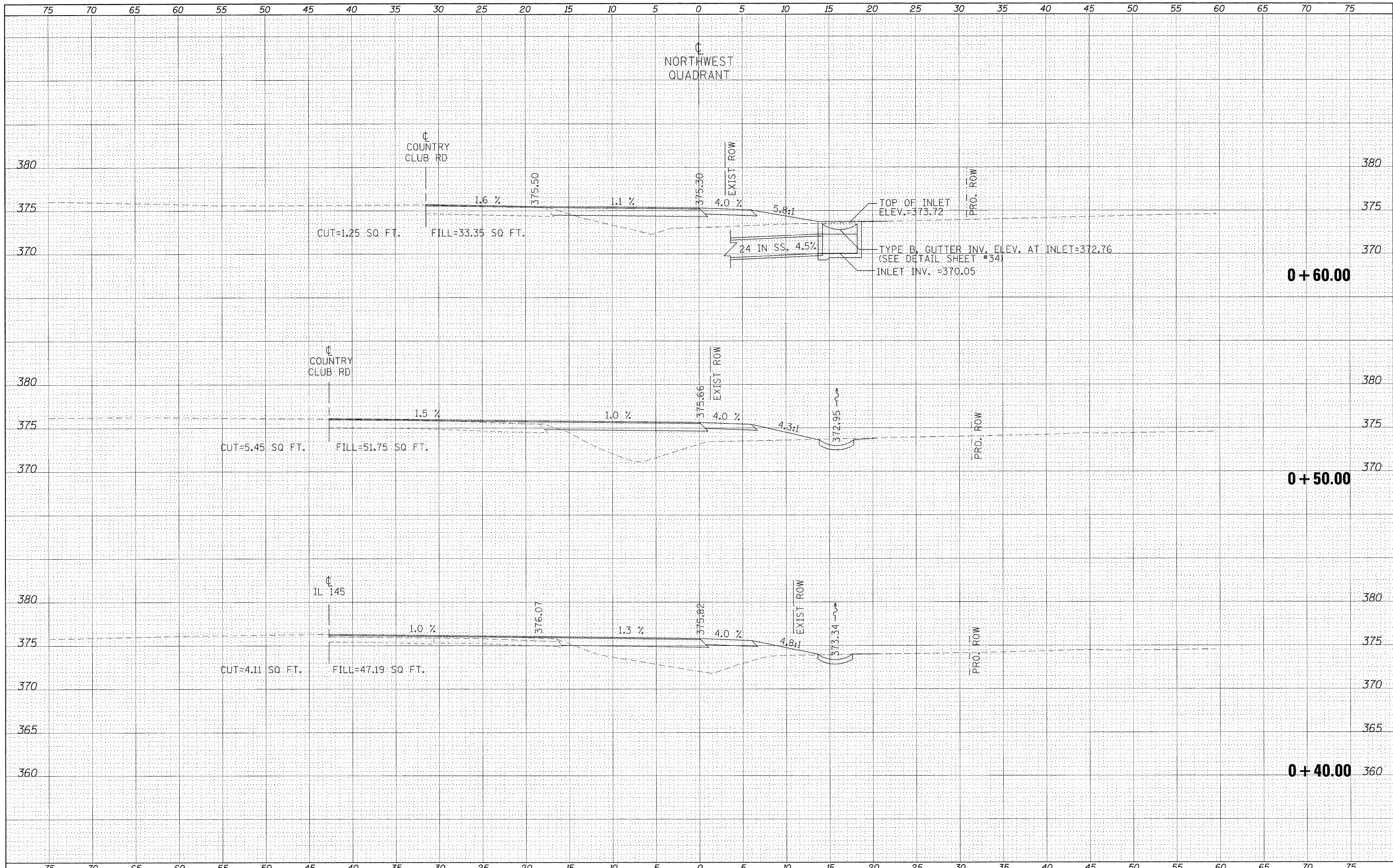
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NOTE BOOK	PLOTTED
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PLOT SCALE = 5.0000' / IN.
PLOT DATE = 12/21/2010

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

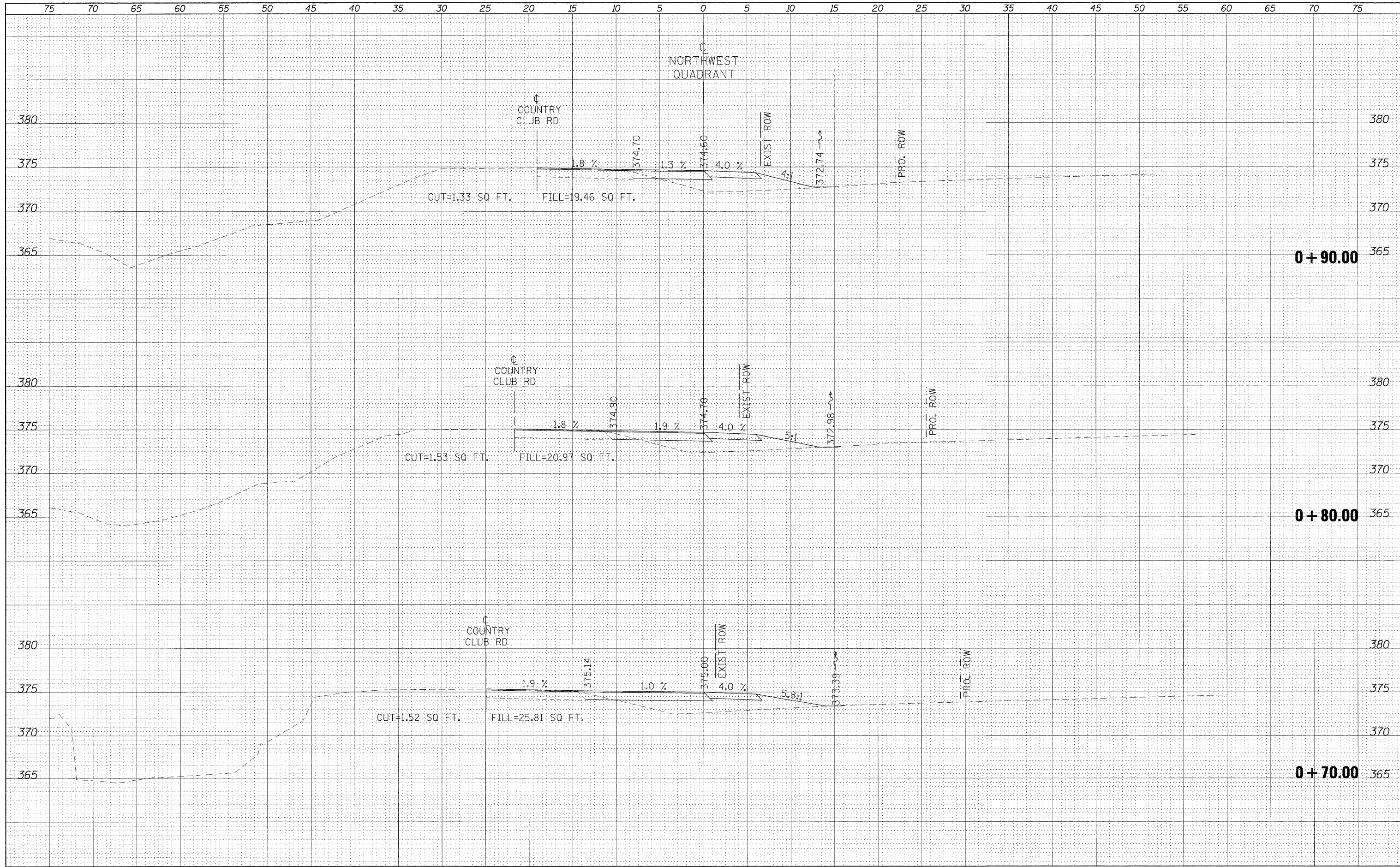
CROSS SECTIONS - NORTHWEST QUADRANT

SCALE: SHEET NO. OF SHEETS STA. +40.00 TO STA. +60.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	57
CONTRACT NO. 78116			ILLINOIS FED. AID PROJECT	

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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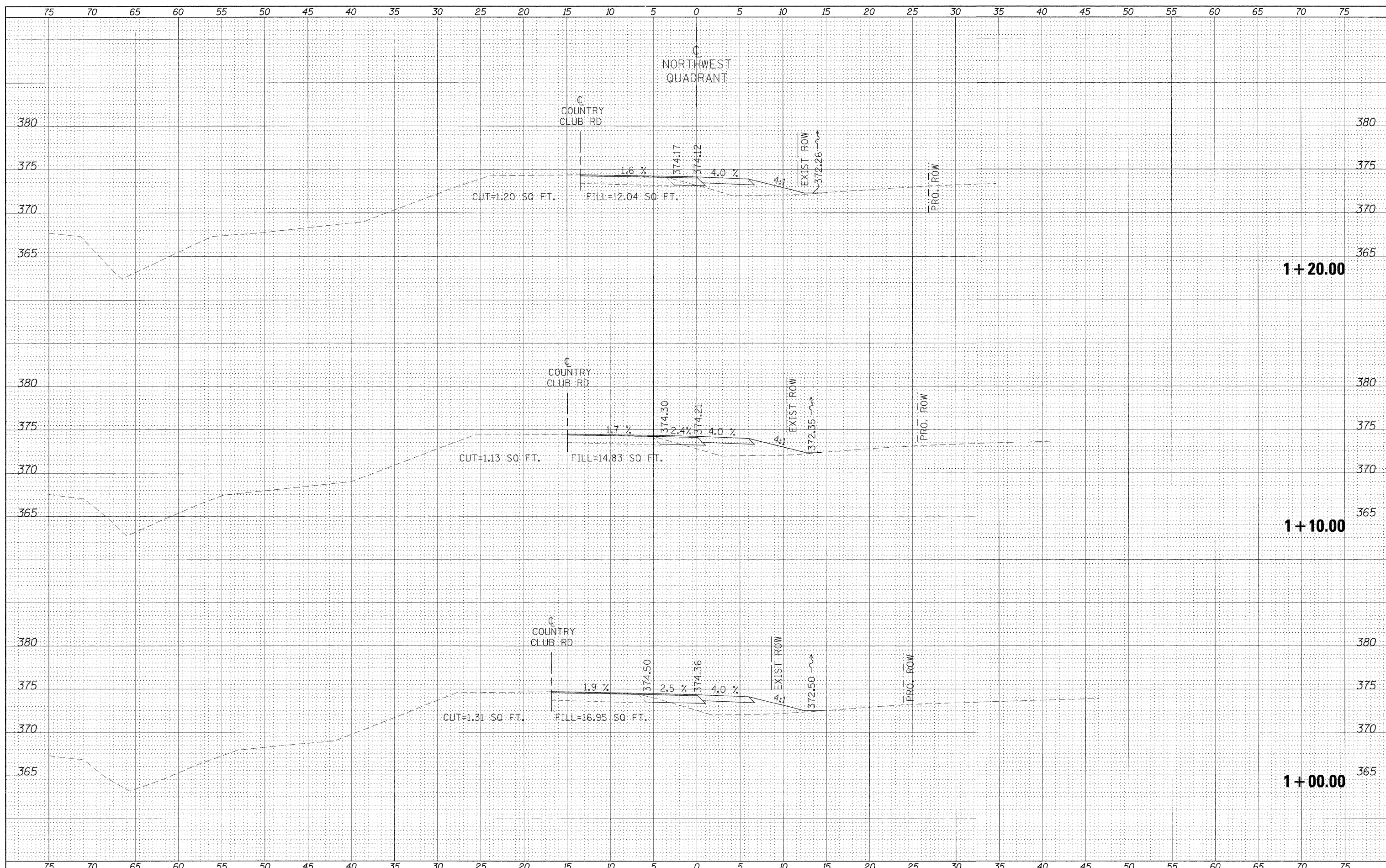
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
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FILE NAME =	USER NAME = nassdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - NORTHWEST QUADRANT				F.A.P. RTE. 132	SECTION 102 (N,L)	COUNTY MASSAC	TOTAL SHEETS 79	SHEET NO. 58
es:\pw\work\p1dot\massdp\d0125145\d978116.sht.x	quads.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. +70.00	TO STA. +90.00	CONTRACT NO. 78116		
		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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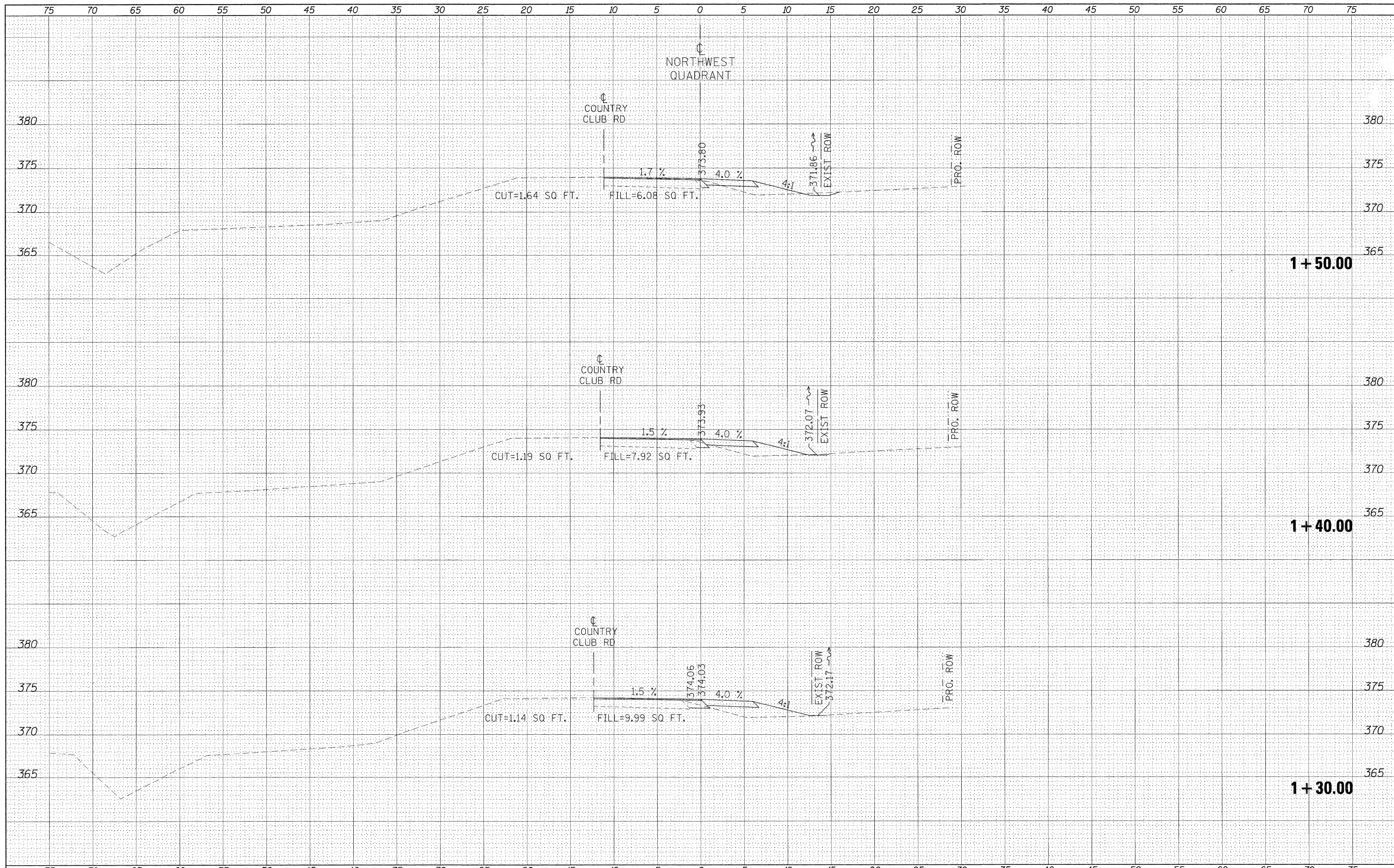
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FILE NAME =	USER NAME = naasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - NORTHWEST QUADRANT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\p\work\p\p\dot\naasdp\d8125145\d4\8116.sht	quads.dgn	DRAWN -	REVISED -			132	102 (N,L)	MASSAC	79	59
PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO.	OF	SHEETS	STA. 1+00.00	TO STA. 1+20.00
PLOT DATE = 12/16/2010	DATE -	REVISED -	CONTRACT NO. 78116							
ILLINOIS FED. AID PROJECT										

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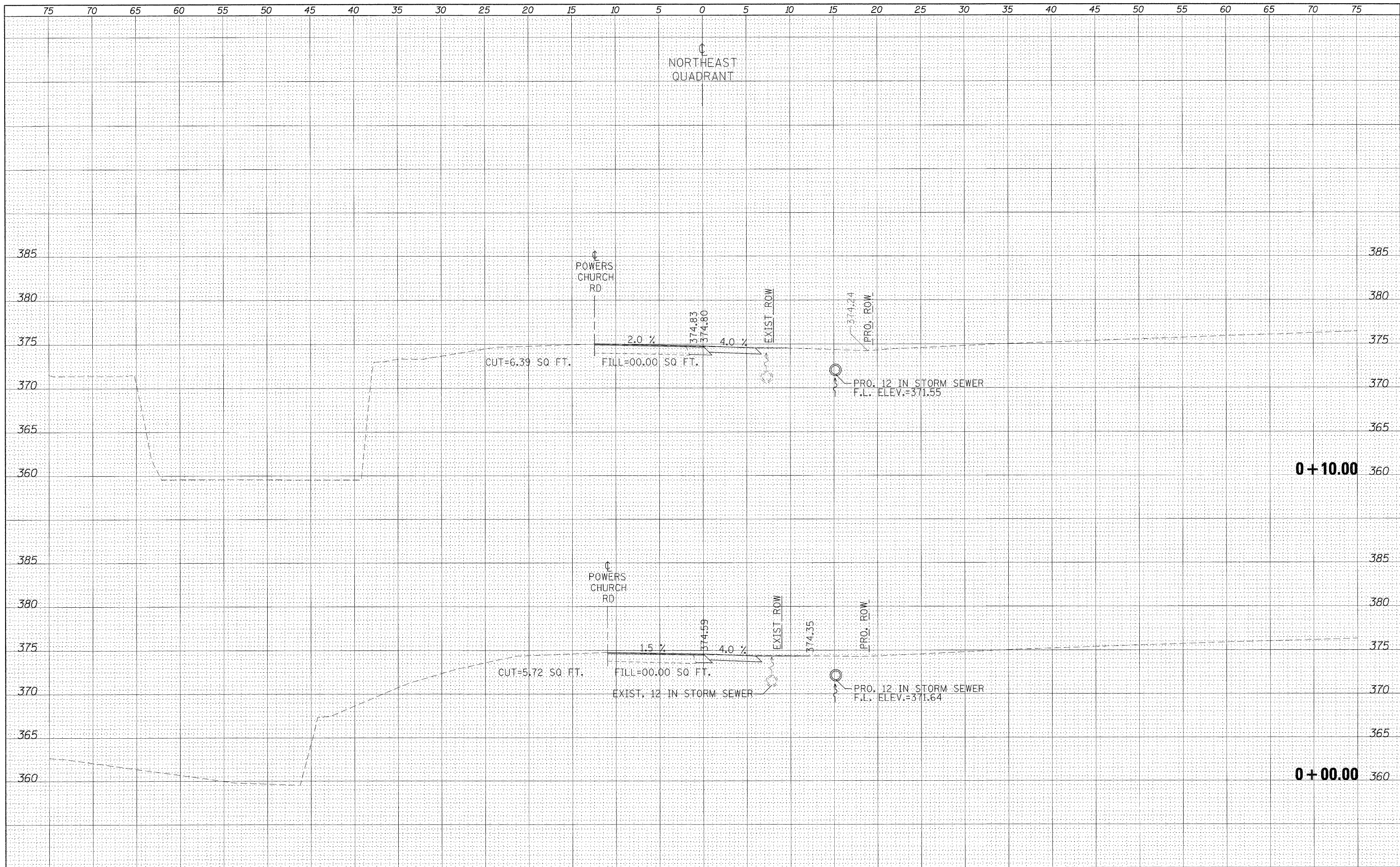
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FILE NAME =	USER NAME = naasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - NORTHWEST QUADRANT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pw_wrk\p\idot\naasdp\d8125145\d978116.sht.x	quads.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 1+30.00	TO STA. 1+50.00	132	102 (N.L.)	MASSAC	79 60
	PLOT SCALE = 5.0000" / IN.	CHECKED -	REVISED -						CONTRACT NO. 78116					
	PLOT DATE = 12/16/2010	DATE -	REVISED -						ILLINOIS FED. AID PROJECT					

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



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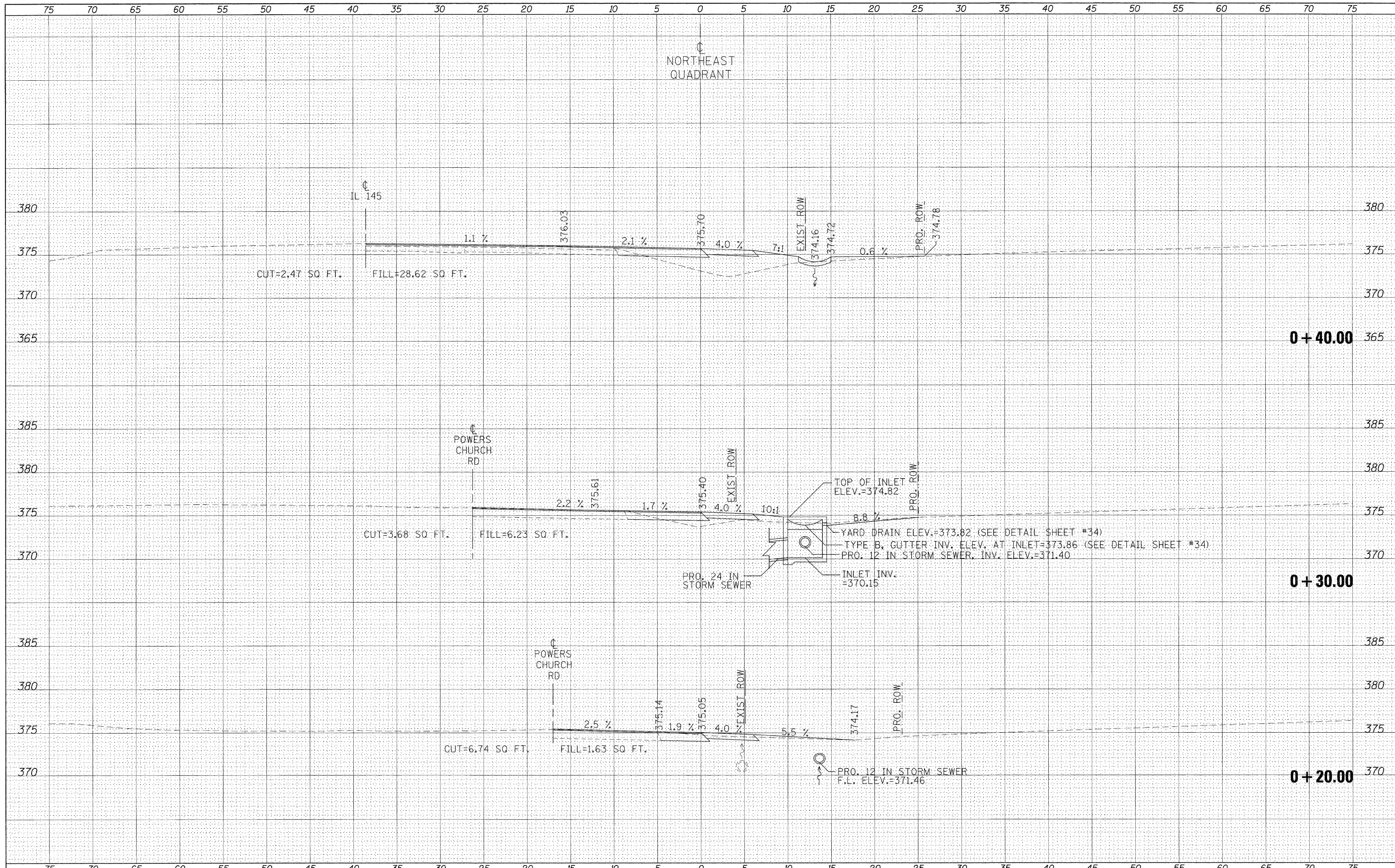
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - NORTHEAST QUADRANT

SCALE: SHEET NO. OF SHEETS STA. +00.00 TO STA. +10.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	61
CONTRACT NO. 78116			ILLINOIS FED. AID PROJECT	



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 PLT DATE = 12/21/2010

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

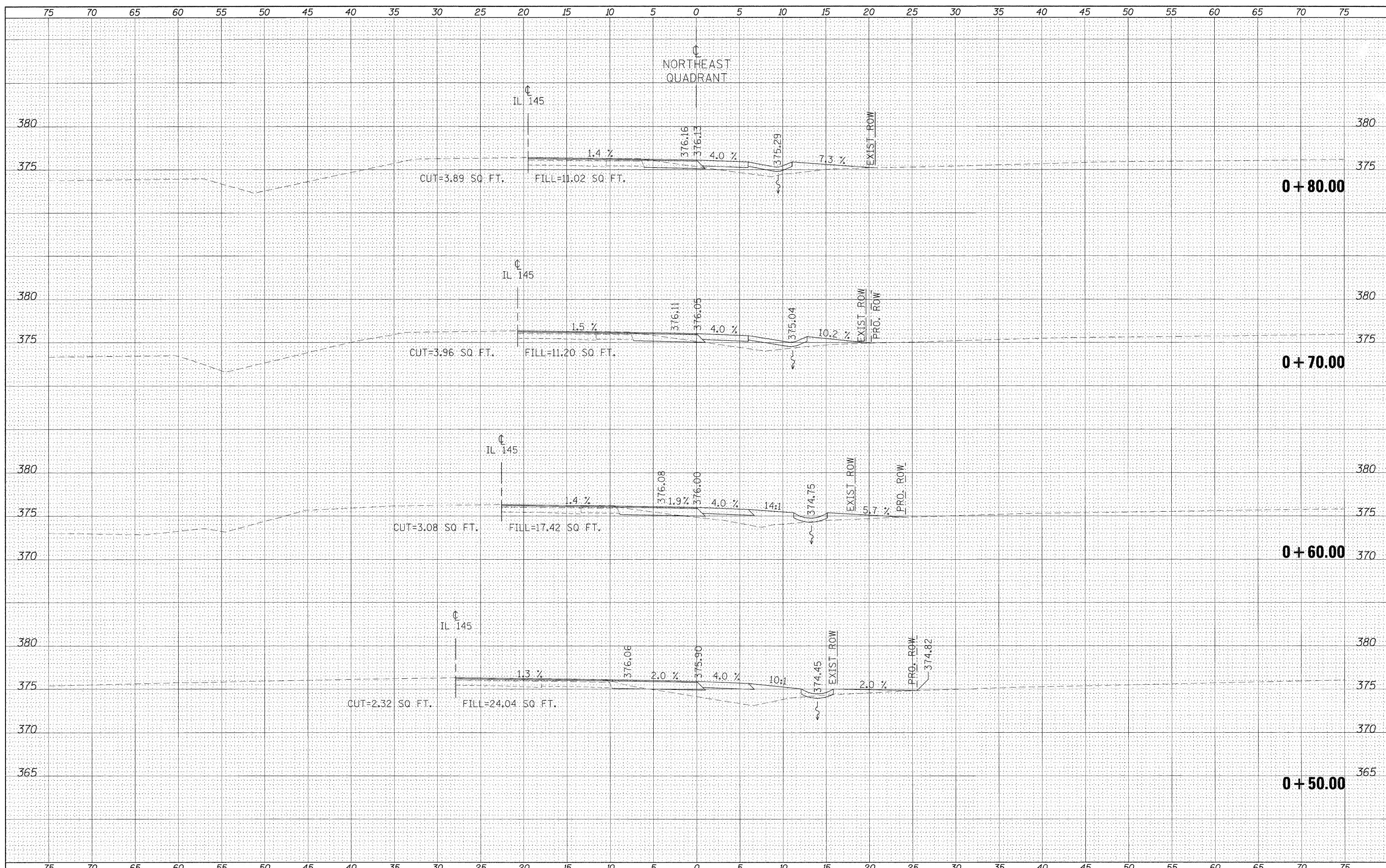
CROSS SECTIONS - NORTHEAST QUADRANT

SCALE: SHEET NO. OF SHEETS STA. +20.00 TO STA. +40.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N.L.)	MASSAC	79	62
CONTRACT NO. 78116				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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NOTE BOOK	PLOTTED
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 PLOT DATE = 12/16/2010

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DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

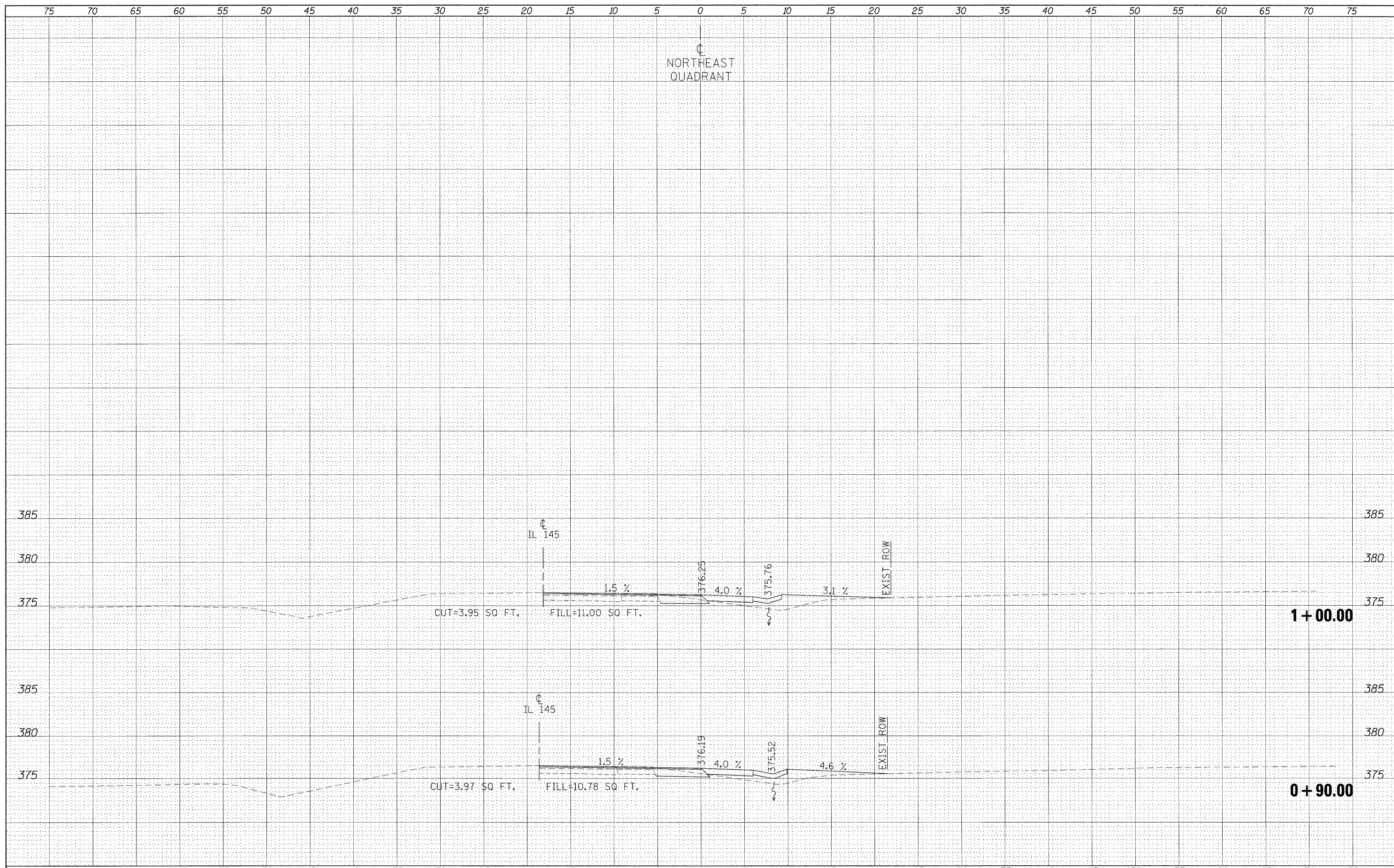
CROSS SECTIONS - NORTHEAST QUADRANT

SCALE: SHEET NO. OF SHEETS STA. +50.00 TO STA. +80.00

F.A.P. RTE. 132	SECTION 102 (N,L)	COUNTY MASSAC	TOTAL SHEETS 79	SHEET NO. 63
			CONTRACT NO. 78116	
ILLINOIS FED. AID PROJECT				

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

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

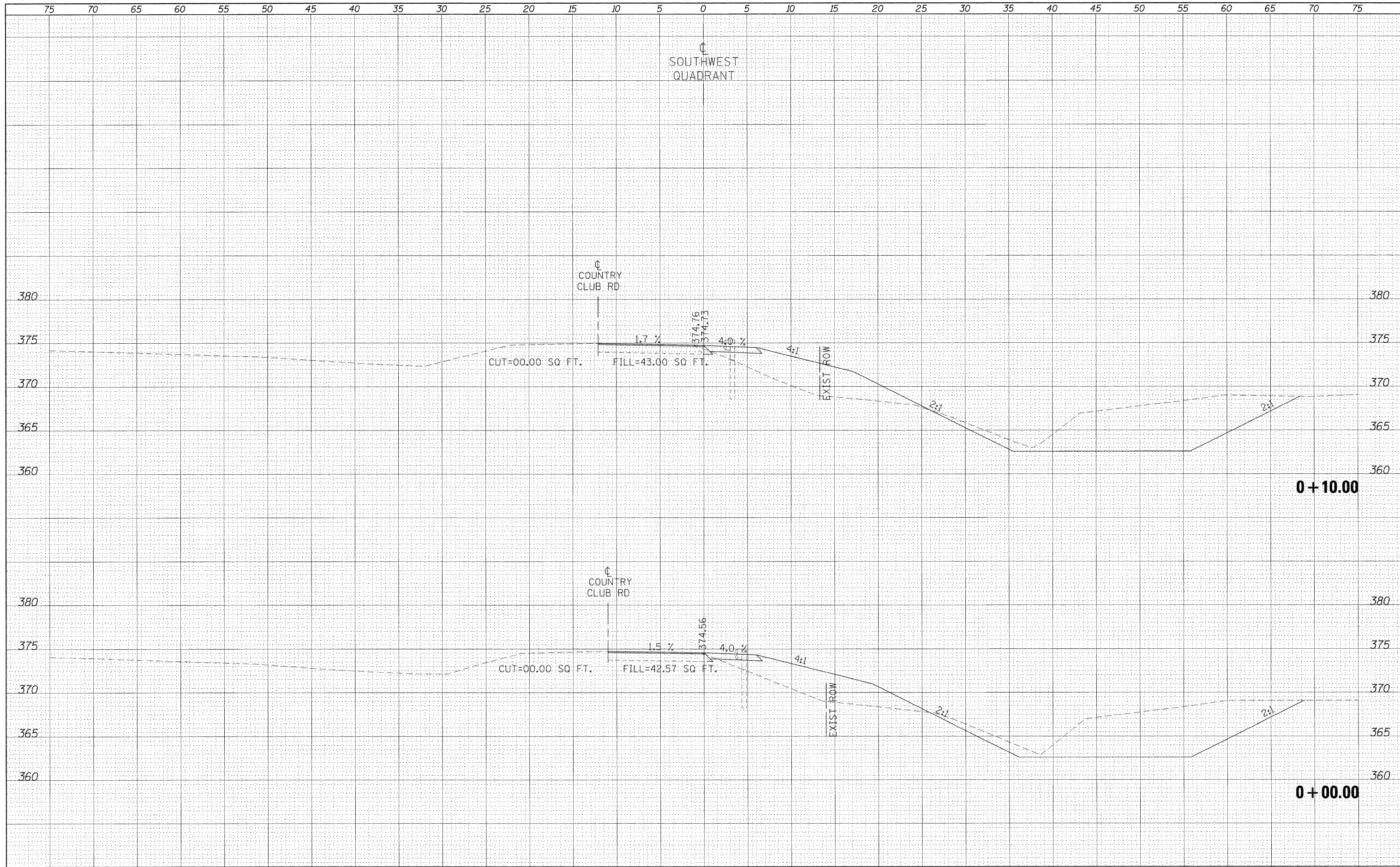


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es:\p\work\p\isdo\ts\nsaasdp\d8129145\d978116.sht.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. +90.00	TO STA. 1+00.00	132	102 (N,L)	MASSAC	79 64
		CHECKED -	REVISED -											
		DATE -	REVISED -											

ILLINOIS FED. AID PROJECT

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

DATE	
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ORIGINAL SURVEY	SUBMITTED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =
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 PLOT SCALE = 5.0000' / IN.
 PLOT DATE = 12/16/2010

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

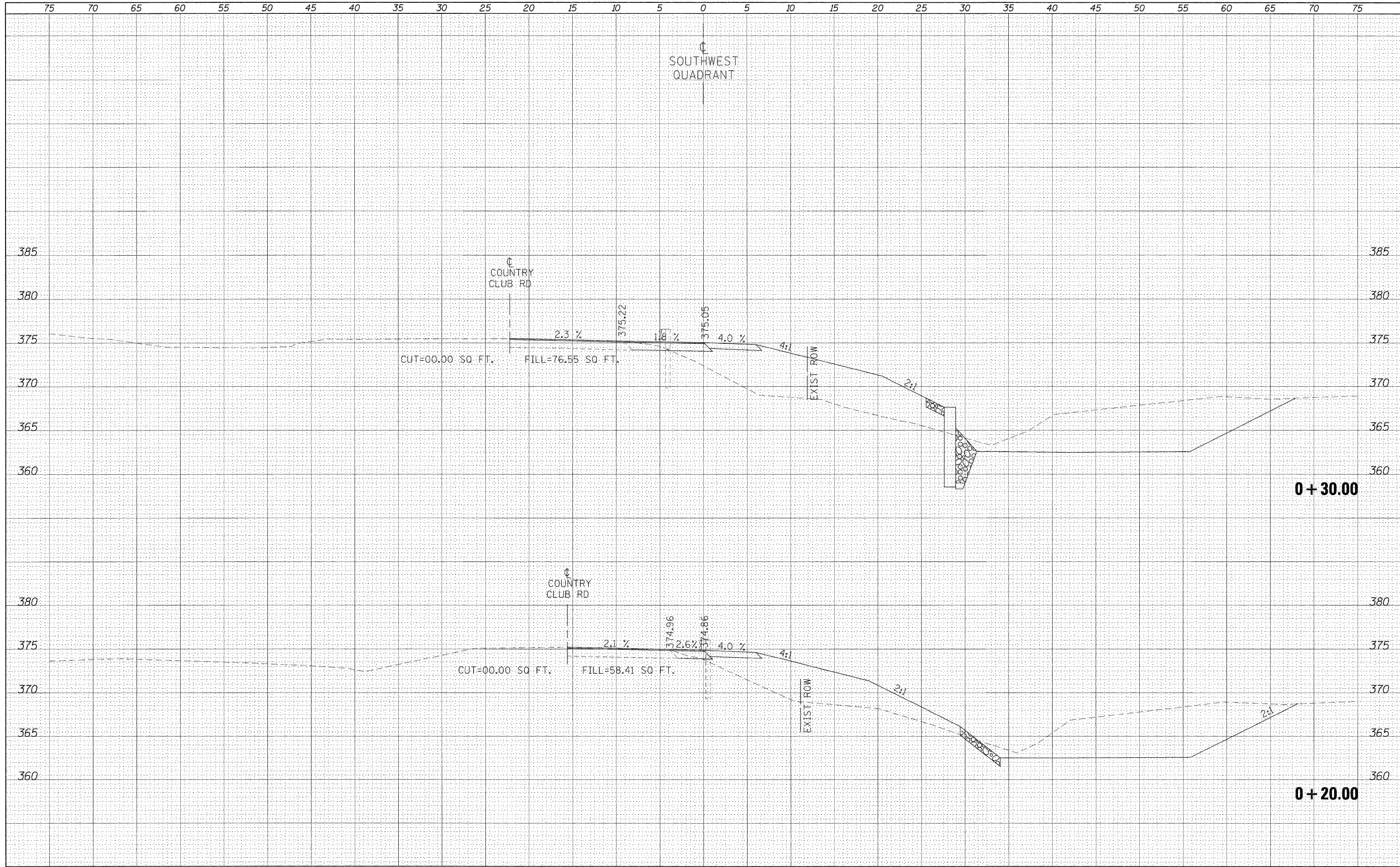
CROSS SECTIONS - SOUTHWEST QUADRANT

SCALE: SHEET NO. OF SHEETS STA. +00.00 TO STA. +10.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	65
CONTRACT NO. 78116 ILLINOIS FED. AID PROJECT				

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

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



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

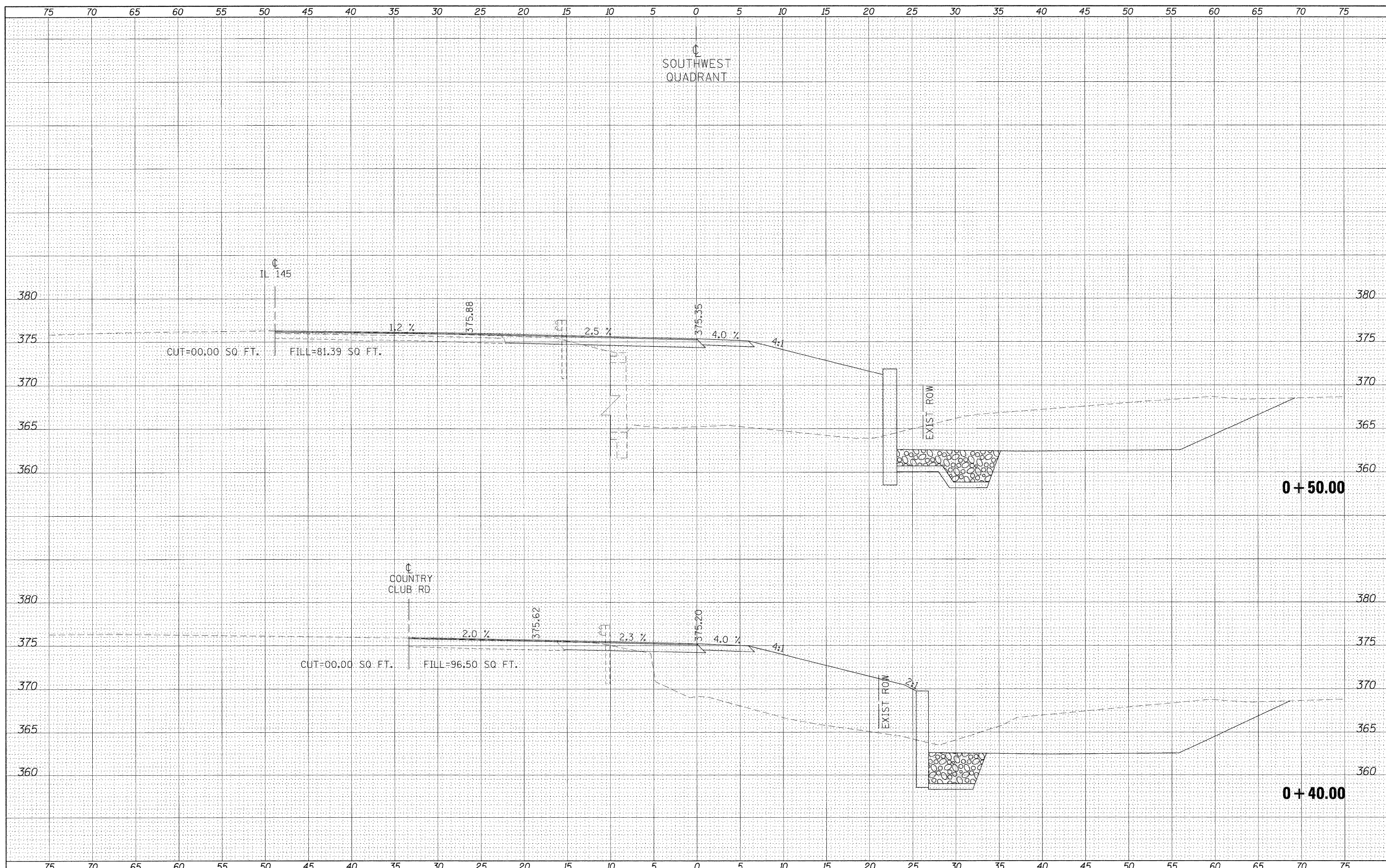
CROSS SECTIONS - SOUTHWEST QUADRANT

SCALE: SHEET NO. OF SHEETS STA. +20.00 TO STA. +30.00

F.A.P. RTE. 132	SECTION 102 (N,L)	COUNTY MASSAC	TOTAL SHEETS 79	SHEET NO. 66
CONTRACT NO. 78116			ILLINOIS FED. AID PROJECT	

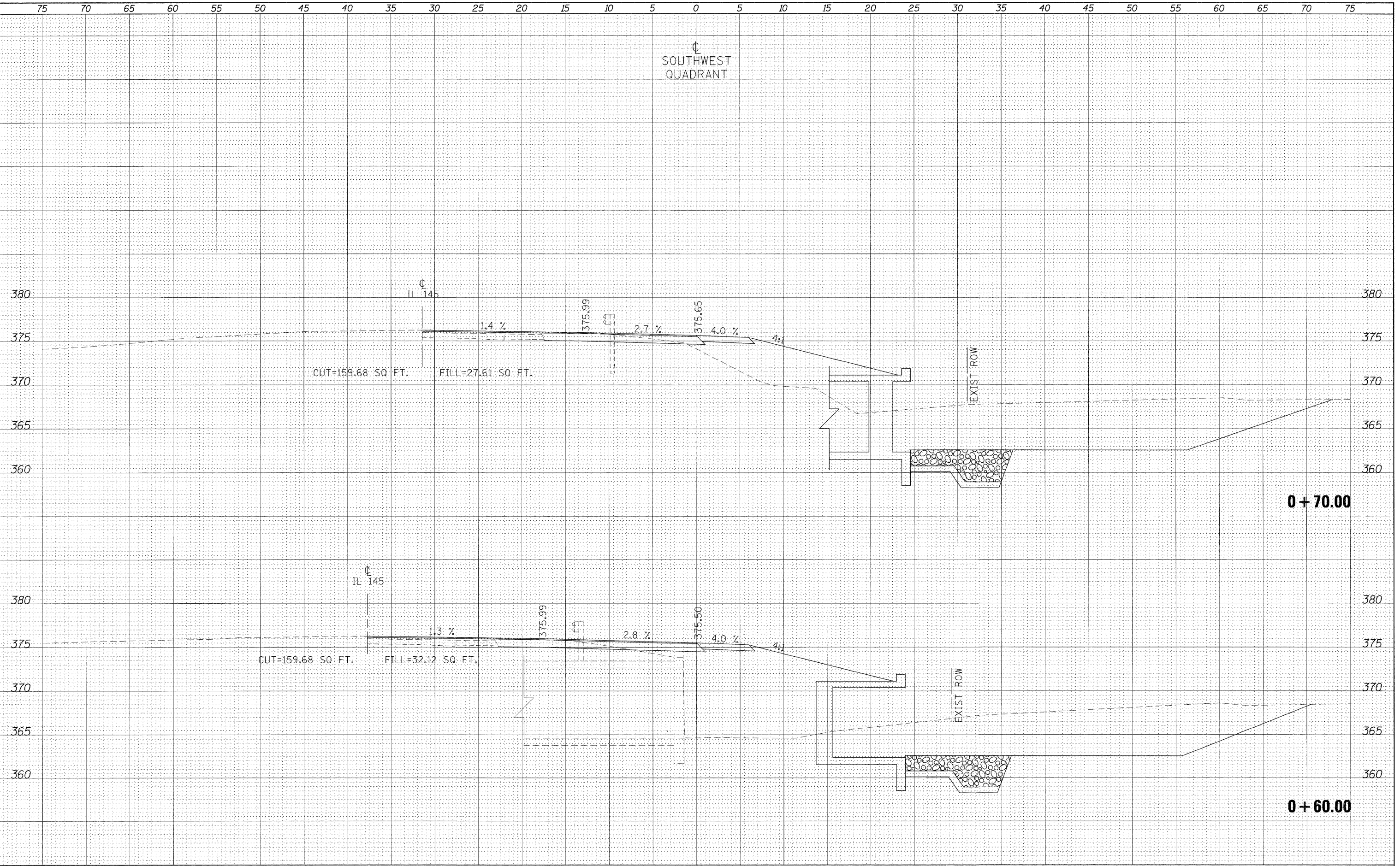
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



FILE NAME =	USER NAME = naasip	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - SOUTHWEST QUADRANT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw\work\p\dot\baosdp\8125145\d978116.sht.dgn		DRAWN -	REVISED -			132	102 (N/L)	MASSAC	79	67	
PLOT SCALE = 5.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 78116		ILLINOIS FED. AID PROJECT			
PLOT DATE = 12/16/2010		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA. +40.00	TO STA. +50.00

SOUTHWEST
QUADRANT



DATE	BY	SURVEYED	PLOTTED
		TEMPLATE	AREAS CHECKED
		NOTE BOOK	NO.

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

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

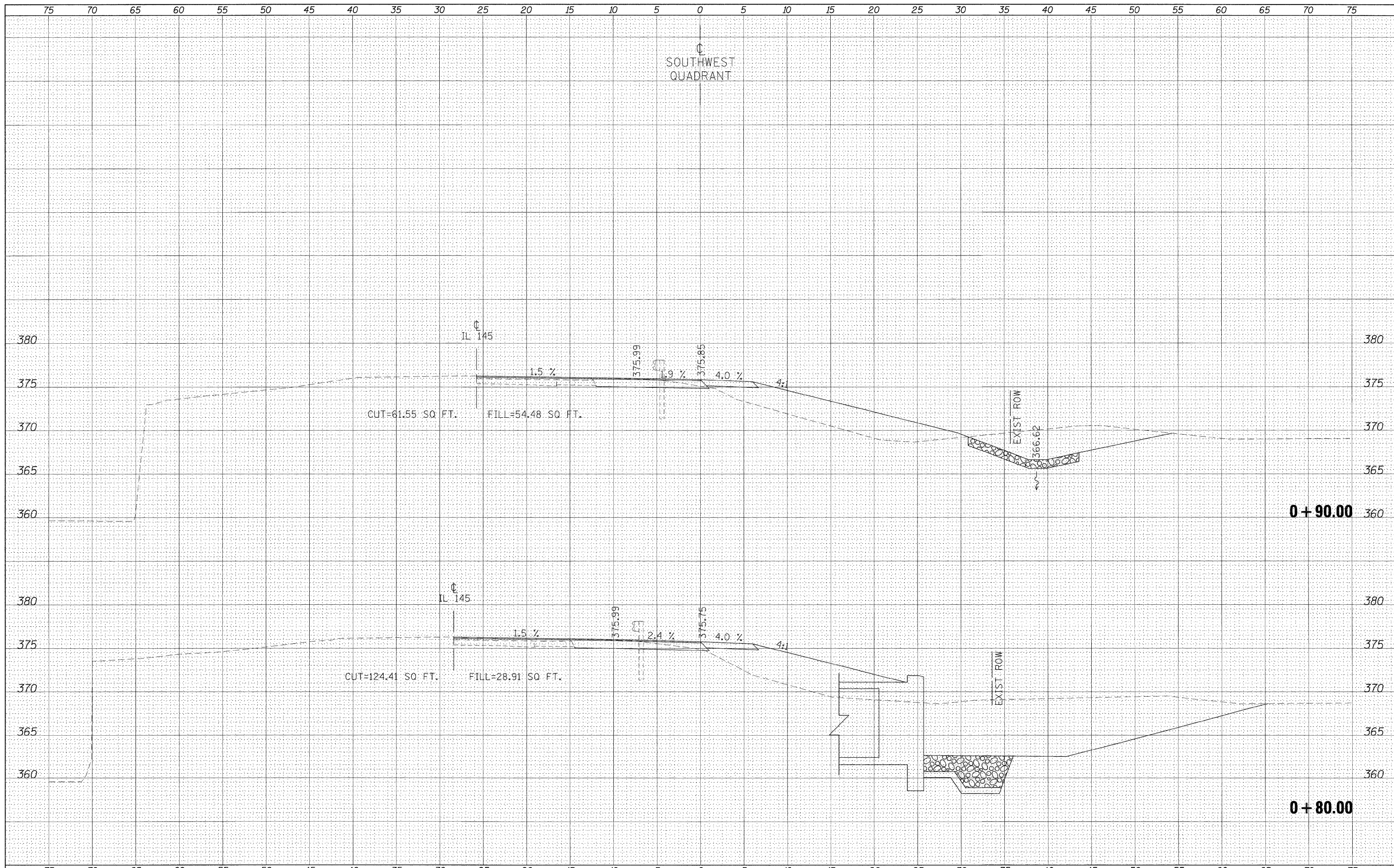
CROSS SECTIONS - SOUTHWEST QUADRANT

SCALE: SHEET NO. OF SHEETS STA. +60.00 TO STA. +70.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	68
CONTRACT NO. 78116				
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

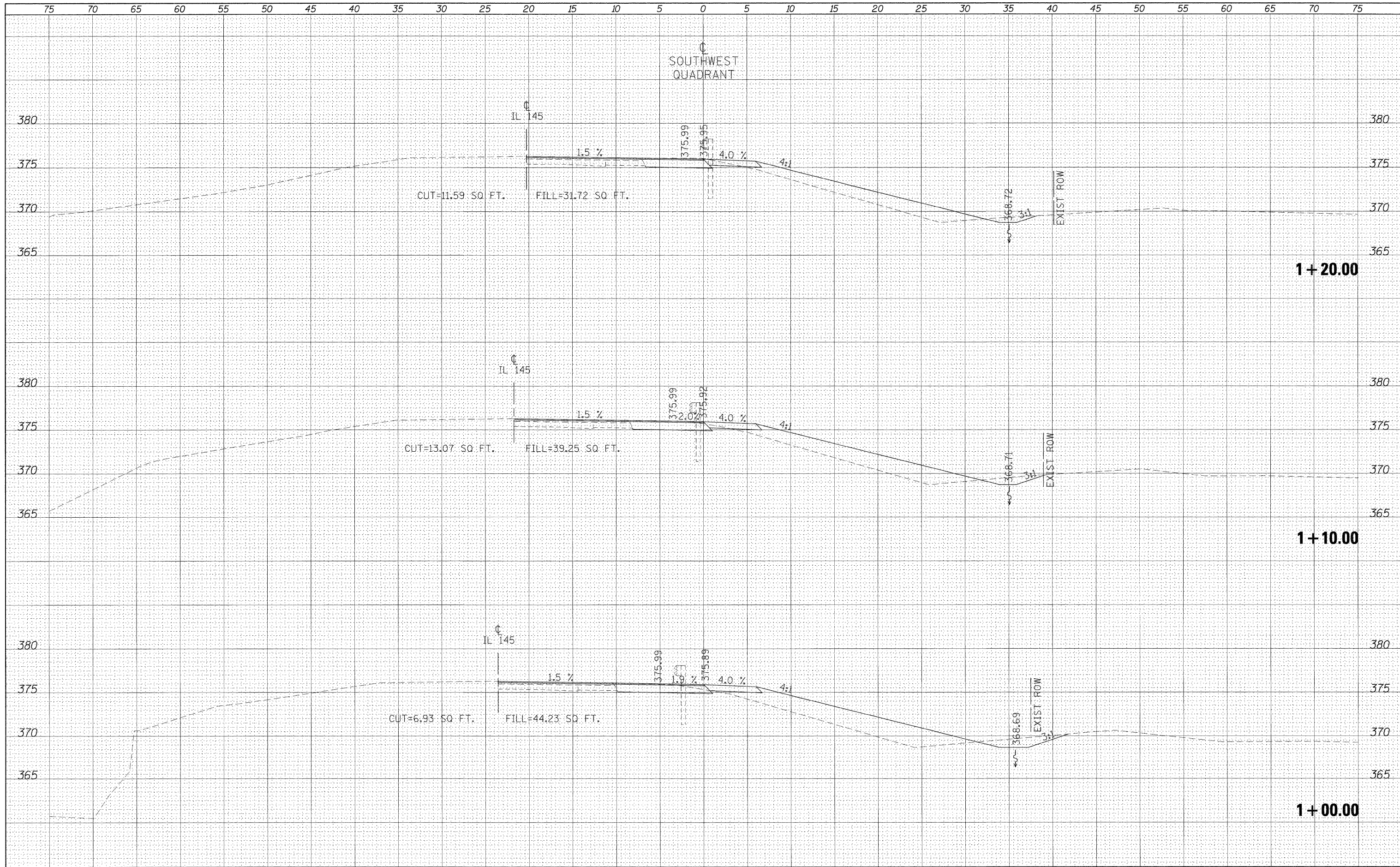
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



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cr:\pw\work\p\ridot\naasdp\d0125145\d978116_sht...	quads.dgn	DRAWN -	REVISED -					132	102 (N/L)	MASSAC	79	69
	PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. +80.00 TO STA. +90.00			CONTRACT NO. 78116				
	PLOT DATE = 12/16/2010	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	CHECKED
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BY	DATE
SURVEYED	
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TEMPLATE	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - SOUTHWEST QUADRANT

FILE NAME =
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PLOT SCALE = 5.0000' / IN.
PLOT DATE = 12/16/2010

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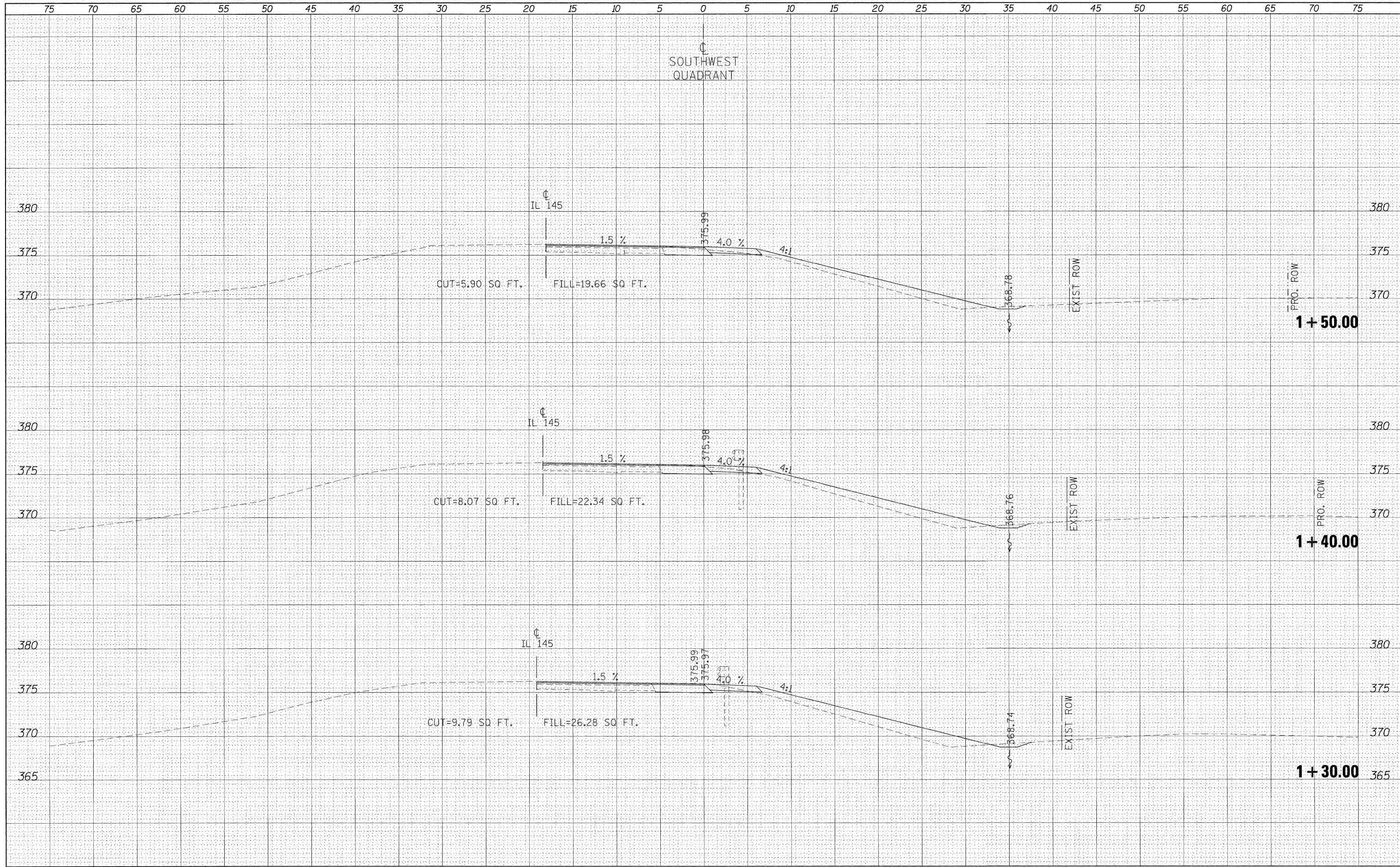
REVISED -
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REVISED -

SCALE: SHEET NO. OF SHEETS STA. 1+00.00 TO STA. 1+20.00

F.A.P. RTE. 132	SECTION 102 (N,L)	COUNTY MASSAC	TOTAL SHEETS 79	SHEET NO. 70
				CONTRACT NO. 78116
ILLINOIS FED. AID PROJECT				

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

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

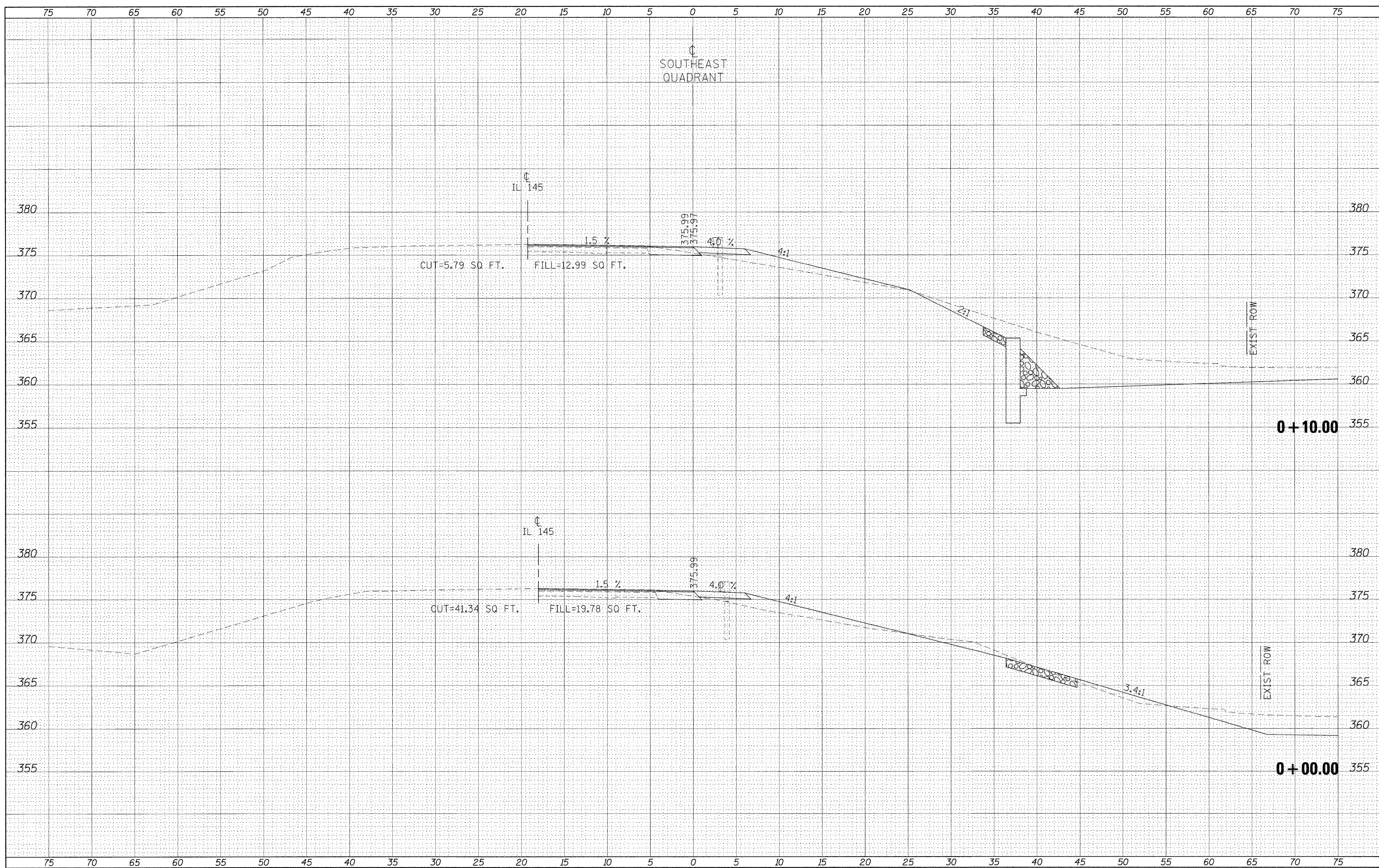


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at:\pw\work\p\idot\naasdp\00125145\d978116.sht.x	naasdp.dgn	DRAWN -	REVISED -			132	102 (N,L)	MASSAC	79	71	
		CHECKED -	REVISED -			CONTRACT NO. 78116					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
PLOT SCALE = 5.0000' / IN.					SCALE:		SHEET NO. OF SHEETS		STA. 1+30.00 TO STA. 1+50.00		

SOUTHEAST QUADRANT

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
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SURVEYED	
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NOTE BOOK	
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USER NAME = nasdp
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 PLOT DATE = 12/16/2010

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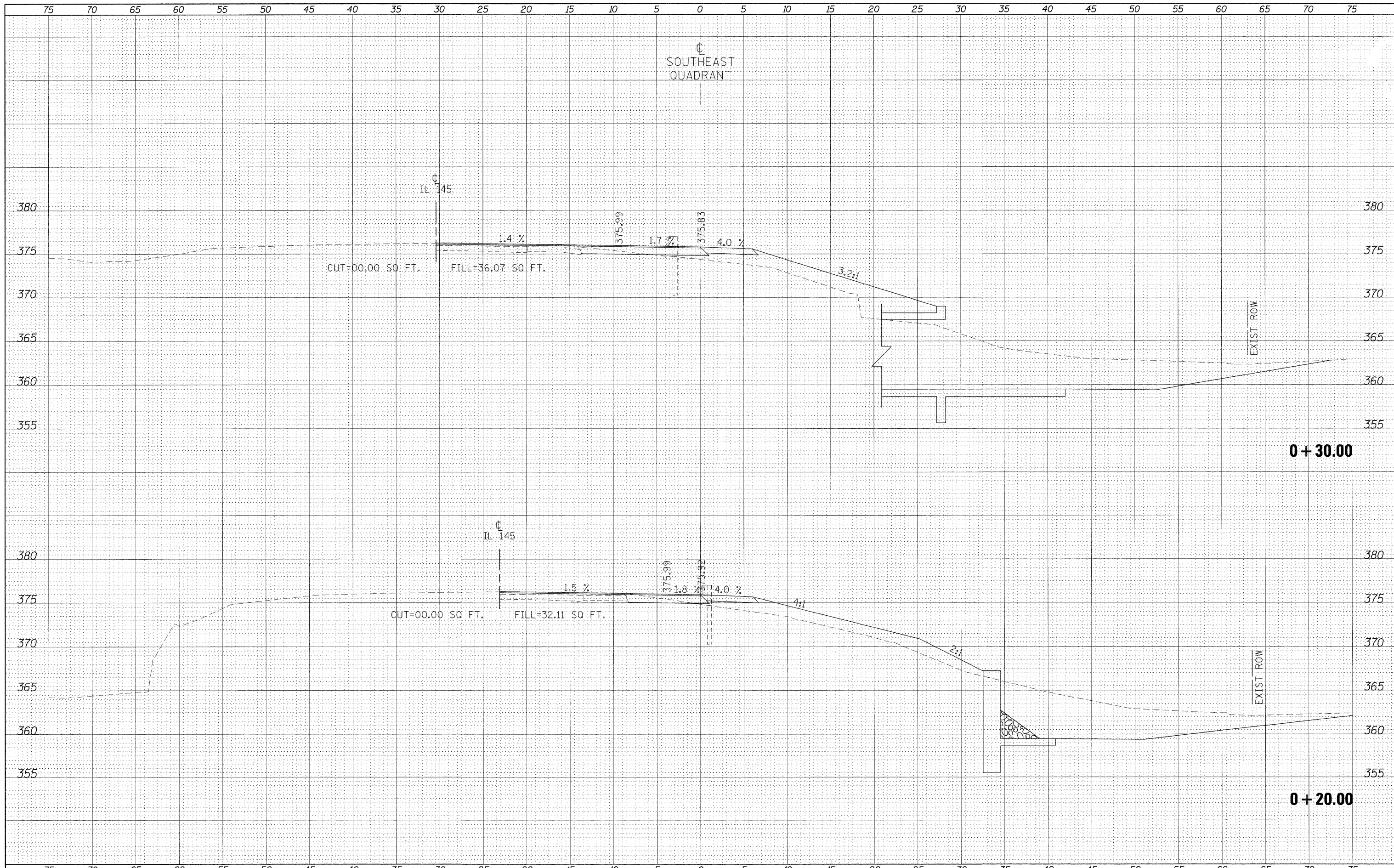
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - SOUTHEAST QUADRANT
 SCALE: SHEET NO. OF SHEETS STA. +00.00 TO STA. +10.00

F.A.P. RTE. 132	SECTION 102 (N,L)	COUNTY MASSAC	TOTAL SHEETS 79	SHEET NO. 72
CONTRACT NO. 78116				
ILLINOIS FED. AID PROJECT				

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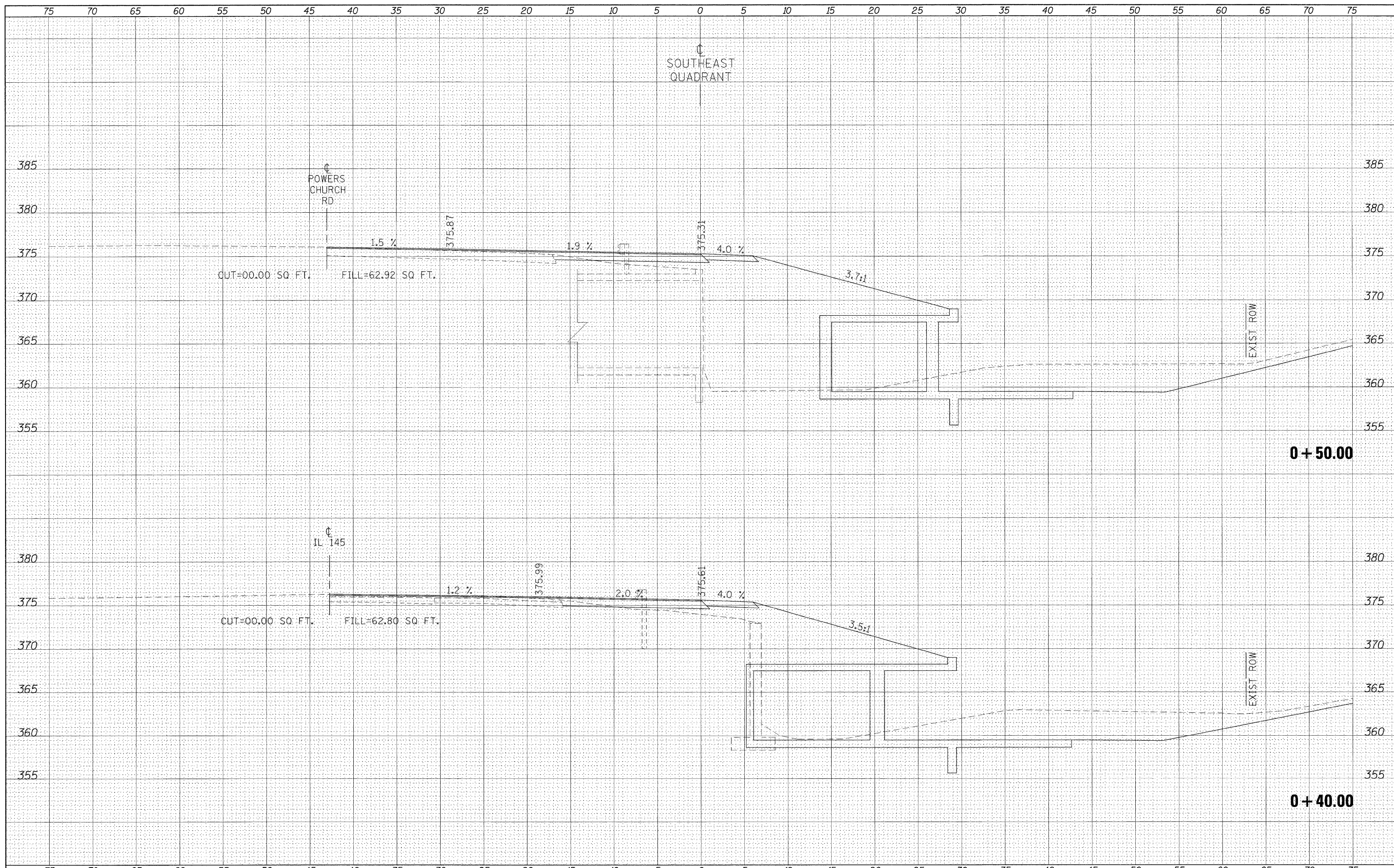
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 TEMPLATE _____
 NOTE BOOK _____
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ca:\pw_work\p\dot\noasdp\ad0125145\d978116.sht...	quads.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. +20.00	TO STA. +30.00	CONTRACT NO. 78116		
	PLOT SCALE = 5.0000" / 1"	CHECKED -	REVISED -								ILLINOIS FED. AID PROJECT		
	PLOT DATE = 12/16/2010	DATE -	REVISED -										

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

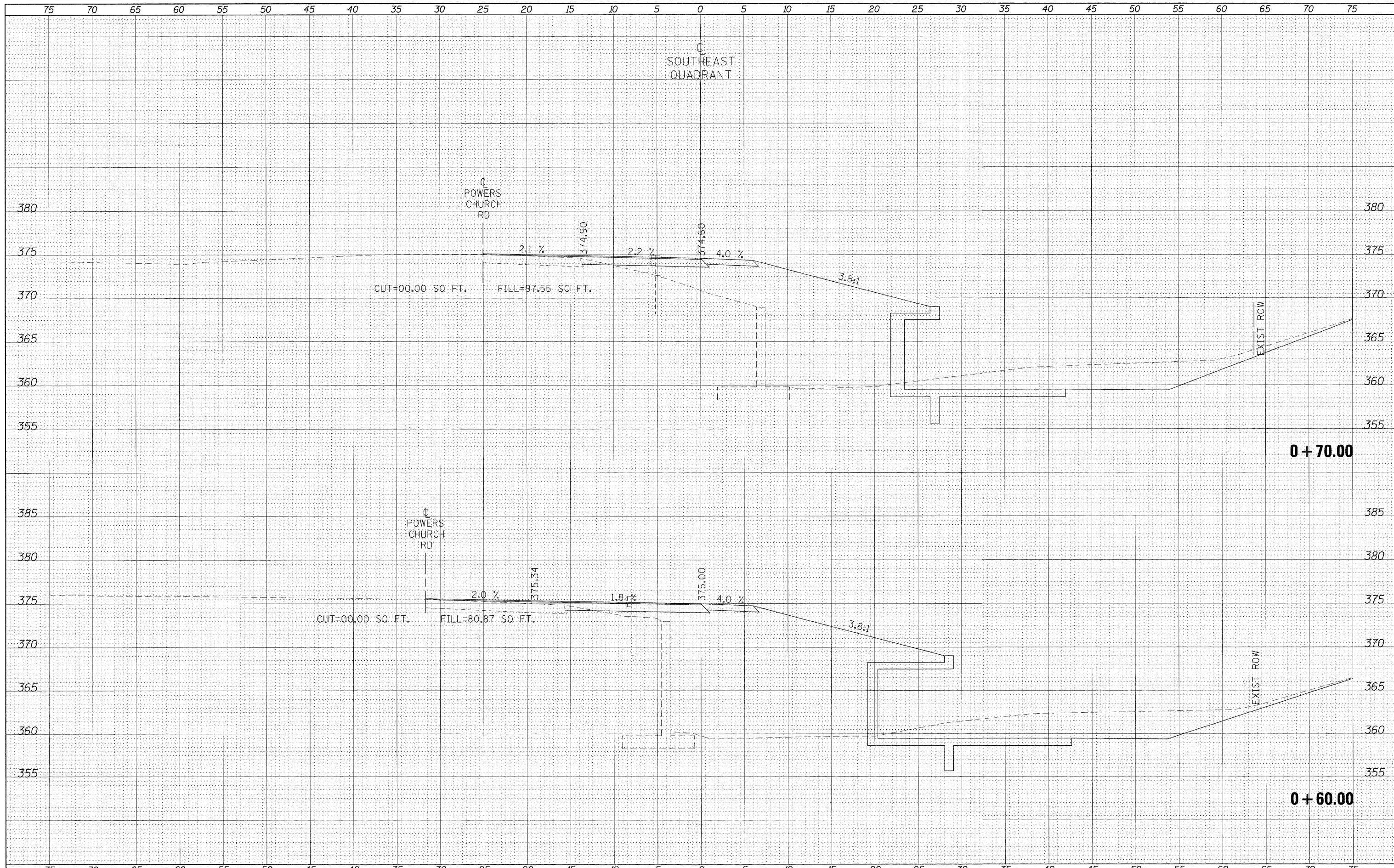
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NOTE BOOK	PLOTTED
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FILE NAME =	USER NAME = naasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - SOUTHEAST QUADRANT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\pudot\naasdp\08125145\d978116.sht...	quads.dgn	DRAWN -	REVISED -						132	102 (N,L)	MASSAC	79	74
	PLOT SCALE = 5.0000" / IN.	CHECKED -	REVISED -		CONTRACT NO. 78116								
	PLOT DATE = 12/16/2010	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
					SCALE:	SHEET NO.	OF	SHEETS	STA. +40.00	TO STA. +50.00			

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

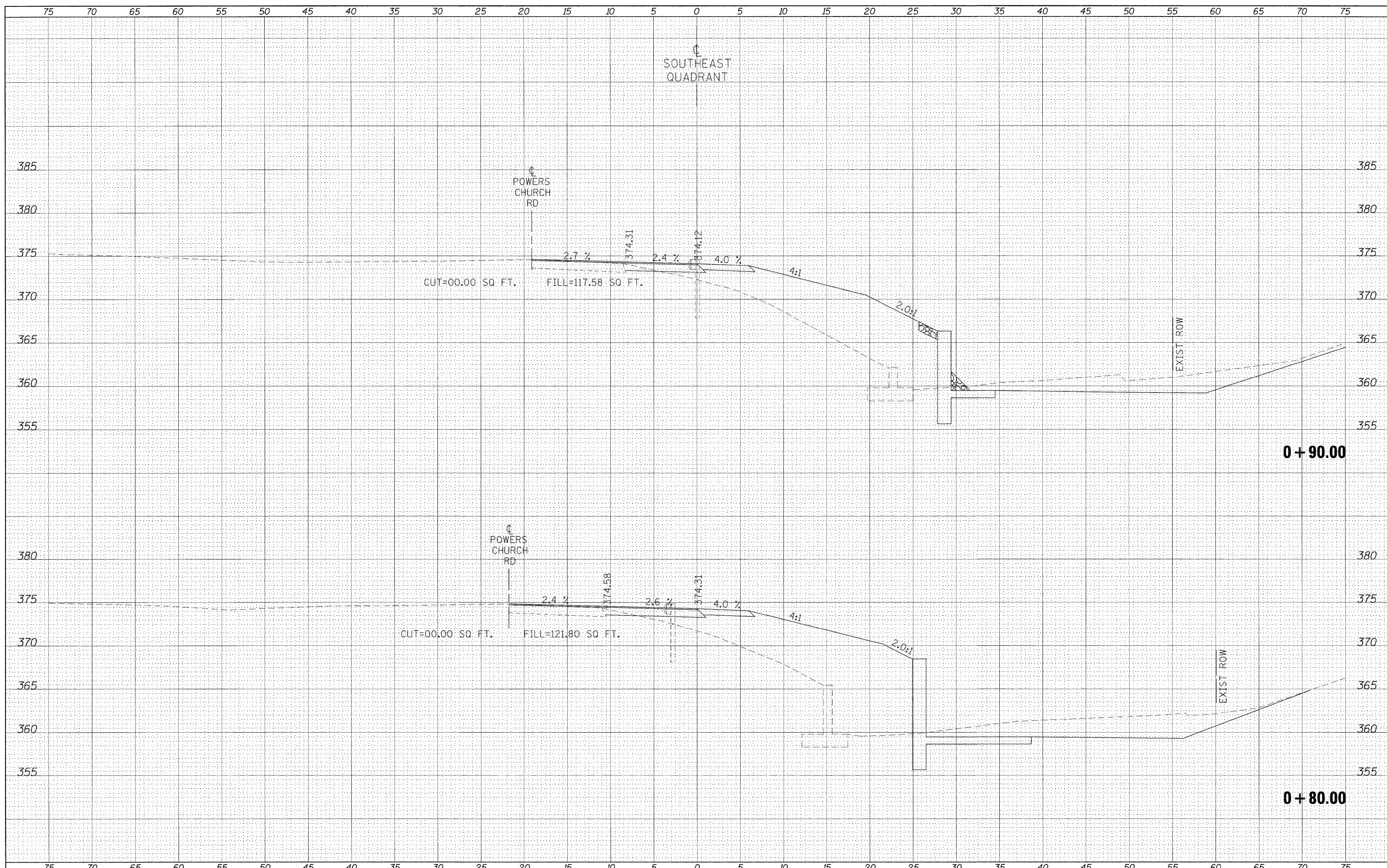
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NOTE BOOK	PLOTTED
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	AREAS CHECKED



FILE NAME =	USER NAME = naasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - SOUTHEAST QUADRANT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwr\work\p1dot\naasdp\d8125145\d978116.sht.dgn	quads.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. +60.00	TO STA. +70.00	132	102 (N/L)	MASSAC	79 75
		PLOT SCALE = 5.0000' / IN.	CHECKED -		REVISED -								CONTRACT NO. 78116	
		PLOT DATE = 12/16/2010	DATE -		REVISED -								ILLINOIS FED. AID PROJECT	

DATE	
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PLOT SCALE = 5.0000' / IN.

PLOT DATE = 12/16/2010

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

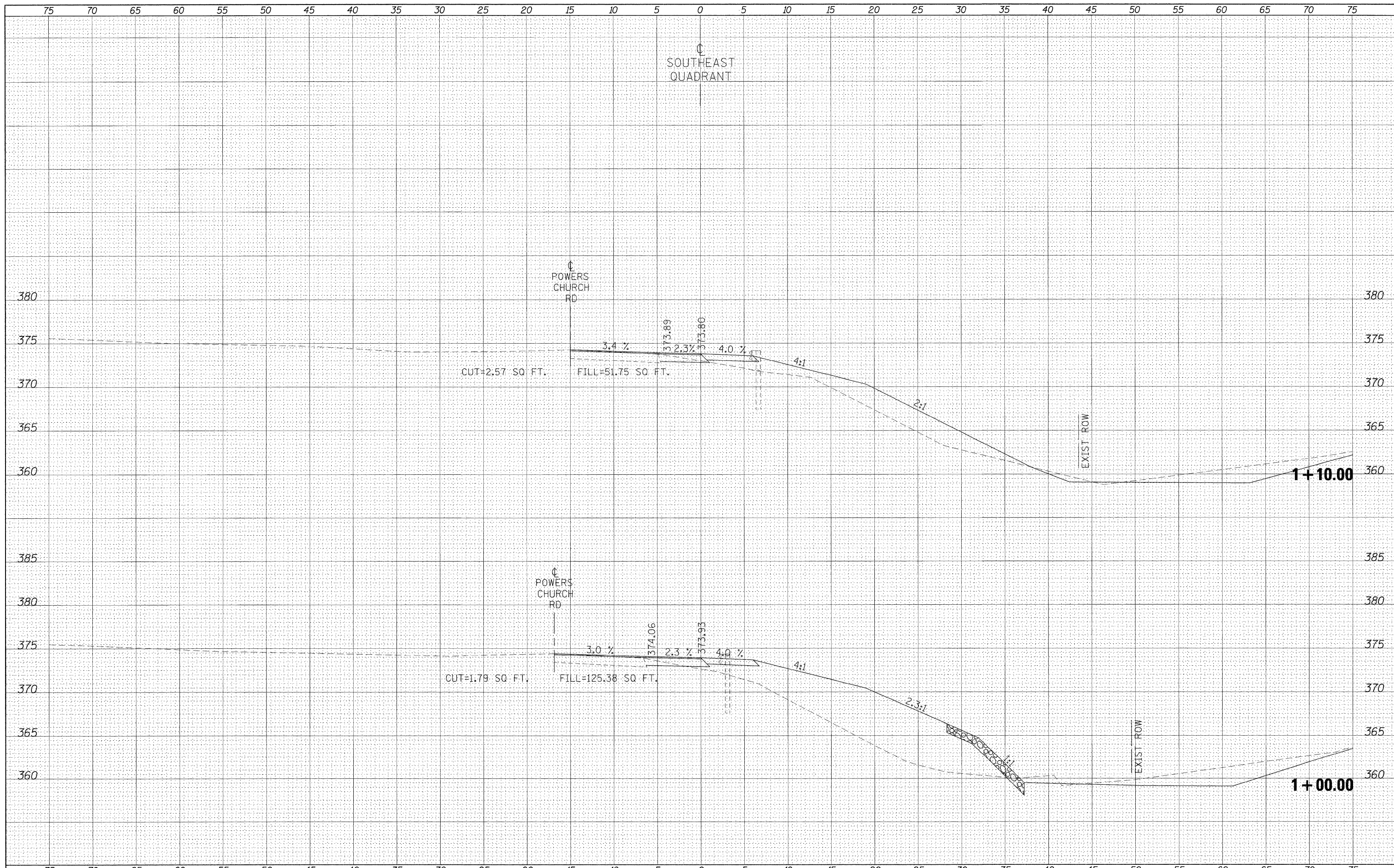
CROSS SECTIONS - SOUTHEAST QUADRANT

SCALE: SHEET NO. OF SHEETS STA. +80.00 TO STA. +90.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N.L.)	MASSAC	79	76
CONTRACT NO. 78116			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
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 PLOT DATE = 12/16/2010

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

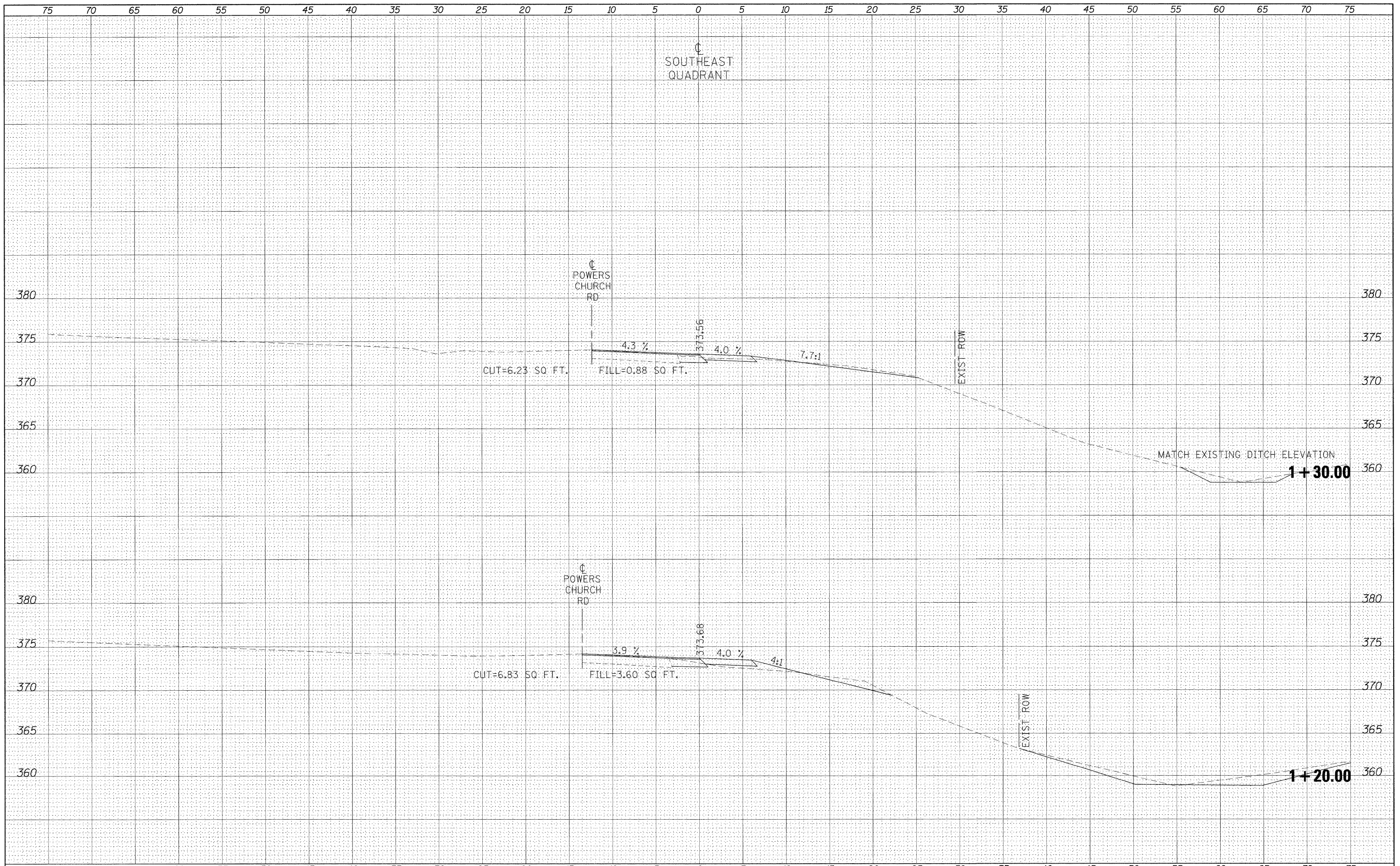
CROSS SECTIONS - SOUTHEAST QUADRANT

SCALE: SHEET NO. OF SHEETS STA. 1+00.00 TO STA. 1+10.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	102 (N,L)	MASSAC	79	77
CONTRACT NO. 78116				
ILLINOIS FED. AID PROJECT				

FINAL	DATE
SURVEY	BY
NOTE BOOK	NO.
TEMPLATE	AREAS CHECKED
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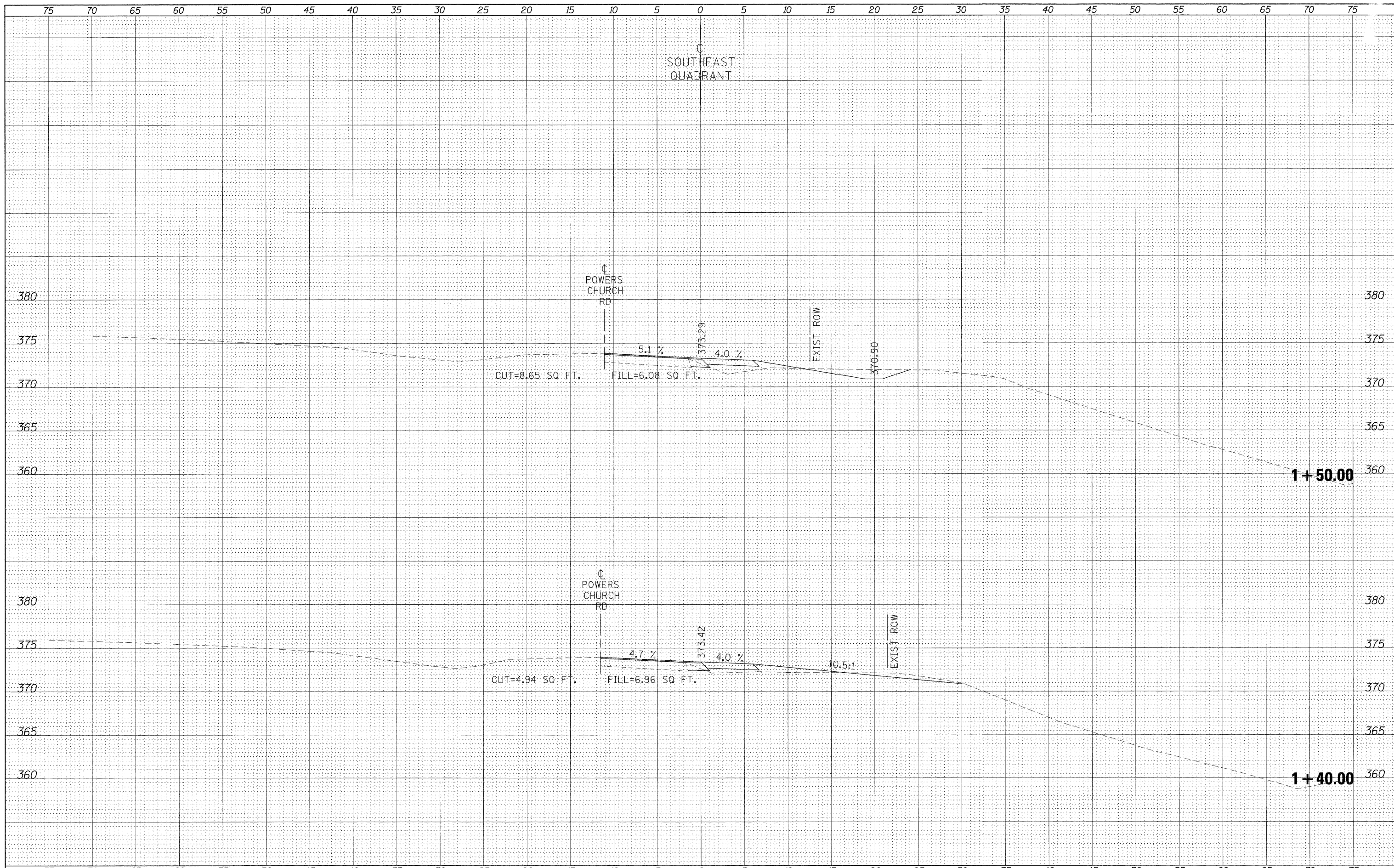
ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	NO.
TEMPLATE	AREAS CHECKED
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c:\pwork\pwork\dot\noasdp\d0125145\d978116.sht.xp	quads.dgn	DRAWN -	REVISED -			132	102 (N,L)	MASSAC	79	78	
PLOT SCALE = 5.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 78116					
PLOT DATE = 12/16/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

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

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



FILE NAME =	USER NAME = nsasdp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - SOUTHEAST QUADRANT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw_work\puidot\nsasdp\0125145\d978116.sht...	quads.dgn	DRAWN -	REVISED -						132	102 (N,L)	MASSAC	79	79
	PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 1+40.00 TO STA. 1+50.00				CONTRACT NO. 78116				
	PLOT DATE = 12/16/2010	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								