

04-25-14 LETTING ITEM 141

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
HIGHWAY SAFETY IMPROVEMENT**

**HIGH RISK RURAL ROADS PROGRAM
F.A.S. ROUTE 574 - C.H. 2 (ATHENS BLACKTOP)**

PROJECT NO. HRR-0574(208)

SECTION 08-00056-04-PV

MENARD COUNTY

JOB NO. C-96-229-09

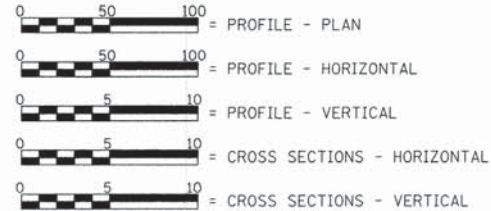
INDEX OF SHEETS

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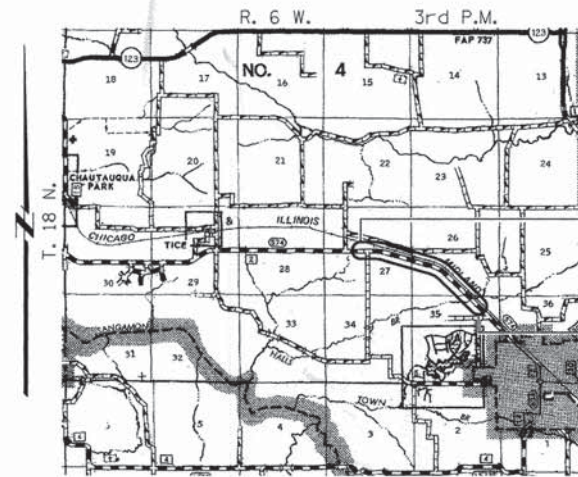
STANDARDS

- STANDARD 280001-07
- STANDARD 542301-03
- STANDARD 542401-01
- STANDARD 666001-01
- STANDARD 701311-03
- STANDARD 701901-03
- STANDARD 780001-04
- STANDARD BLR 21-9
- STANDARD BLR 24-2

SCALE IN FEET



LAND SECTION - 26, 27 & 35
 LAND QUARTER SECTION - VARIES
 FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
 A.D.T. - 1921 (2008)
 A.D.T. - 2537 (2033)
 55 M.P.H. DESIGN SPEED



LOCATION PLAN

LENGTH OF SECTION - 6340.00 FEET = 1.201 MILES



PROJECT DESCRIPTION: PROJECT CONSISTS OF THE WIDENING AND RESURFACING OF THE ENTIRE PROJECT, CULVERT REMOVAL AND REPLACEMENT, PAVEMENT REMOVAL AND REPLACEMENT, INTERSECTION IMPROVEMENT AND OTHER ROADWAY ITEMS OF WORK TO BE BUILT UNDER ROAD CLOSURE.

APPROVED Nov 1, 2013
Thomas R. Carson
 COUNTY ENGINEER

PASSED November 23, 2013
Terrence H. Fountain
 DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

PASSED November 22, 2013
Ron Dehaene
 DISTRICT SIX CONSTRUCTION ENGINEER

Releasing For Bid Based on Limited Review November 22, 2013
Roger L. Driskell
 DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



Christopher F. Koblitz 11/5/13
 EXPIRATION: 11/30/2013

TOLL FREE
 "JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS"
 (U.L.I.E.) TELEPHONE NUMBER
 1-800-892-0123

CONTRACT NO. **93609**

FILE NAME: #	USER NAME: #USER#	DESIGNED	REVISED	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	TITLE SHEET SCALE: 1" = 1 MILE SHEET NO. 1 OF 68 SHEETS STA. 218+60.00 TO STA. 282+00.00	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE#	PLUT SCALE: #SCALE#	DRAWN	REVISED			574	08-00056-04-PV	MENARD	68	1
PLUT DATE: #DATE#	DATE	CHECKED	REVISED			CONTRACT NO. 93609				

ENVIROMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS, (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- SIGNED PROPERTY OWNER AGREEMENT FORM
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

PROPERTY OWNER ACCESS REQUIREMENT

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

GENERAL NOTES

- 1.) THE THICKNESS OF HOT-MIX ASPHALT MIXTURES 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 BITUMINOUS MIXTURE IS PLACED.
- 2.) EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- 3.) WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- 4.) SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDD SHALL BE DETERMINED BY THE ENGINEER AND SEEDD AS SOON AS POSSIBLE.
- 5.) ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1/2" UNLESS UNLESS OTHERWISE SPECIFIED IN A DETAIL SHOWN IN THE PLANS.
- 6.) UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE. THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT. EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 7.) ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8.) ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- 9.) IN ADDITION TO THE FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- 10.) THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT, AND NO COMPENSATION WILL BE ALLOWED.
- 11.) THE LOCATION OF ALL UTILITIES ARE BASED ON INFORMATION PROVIDED BY OTHERS AND IS INTENDED TO BE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.
- 12.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.
- 13.) ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM. ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.
- 14.) THE MENARD COUNTY ENGINEER SHALL BE NOTIFIED AT LEAST 21 DAYS PRIOR TO CLOSING THE ROAD TO TRAFFIC (PH: 217-632-2722).

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

BITUMINOUS MATERIALS (PRIME COAT)	0.00038 TON/SQ. YD. (ON PAVEMENT)
BITUMINOUS MATERIALS (PRIME COAT)	0.10 GAL./SQ. YD. (ON PAVEMENT)
BITUMINOUS MATERIALS (PRIME COAT)	0.375 GAL./SQ.YD. (ON AGG)
HOT MIX ASPHALT SURFACE / BINDER	0.056 TON/SQ. YD. PER 1"
AGGREGATE MATERIAL	2.05 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.
NITROGEN FERTILIZER NUTRIENT	90 LBS./ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS./ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS./ACRE
AGGREGATE PRIME COAT	0.002 TON/SQ. YD.
AGRICULTURAL GROUND LIMESTONE	2.0 TON/ACRE

UTILITIES

MENARD RURAL WATER COOPERATIVE
MR. WAYNE E. JONES, MANAGER
P.O. BOX 86
PETERSBURG, ILLINOIS 62675
217-632-7746

MENARD ELECTRIC COOPERATIVE
MR. JOHN WHITEHURST
P.O. BOX 200
PETERSBURG, ILLINOIS 62675
217-632-7746

CASS CABLE TV, INC.
100 REDBUD ROAD
P.O. BOX 200
VIRGINIA, ILLINOIS 62691
217-452-7800

AMEREN CIPS
MR. CHUCK STEINACHER, GAS ENGINEER
370 SOUTH MAIN
DECATUR, ILLINOIS 62523
217-424-6958
C - 217-741-6547

AT&T
MR. JEFF GOAD
529 SOUTH 7TH STREET
FLOOR 3B
SPRINGFIELD, ILLINOIS 62721
217-789-5543

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	144
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24
20100500	TREE REMOVAL, ACRES	ACRE	0.4
20200100	EARTH EXCAVATION	CU YD	13875
20400800	FURNISHED EXCAVATION	CU YD	5465
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1150
28000305	TEMPORARY DITCH CHECKS	FOOT	272
28000400	PERIMETER EROSION BARRIER	FOOT	12720
28000500	INLET AND PIPE PROTECTION	EACH	10
28300400	AGGREGATE DITCH	TON	808
35100100	AGGREGATE BASE COURSE, TYPE A	TON	450
35600700	HOT-MIX ASPHALT BASE COURSE WIDENING, 6"	SQ YD	3684
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2000
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	6.5
40600300	AGGREGATE (PRIME COAT)	TON	34
40600625	LEVELING BINDER (MACHINE METHOD) N50	TON	3028
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	38
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	196
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1431
44000100	PAVEMENT REMOVAL	SQ YD	1234
48100100	AGGREGATE SHOULDERS, TYPE A	TON	2408
50105220	PIPE CULVERT REMOVAL	FOOT	966
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	166
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	88
542A1093	PIPE CULVERTS, CLASS A, TYPE 2 48"	FOOT	124
542A2779	PIPE CULVERTS, CLASS A, TYPE 4 54"	FOOT	246
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	198
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	194
542D0241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	34
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	46
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	2
54213699	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 54"	EACH	2
54215550	METAL END SECTIONS 15"	EACH	10
54215553	METAL END SECTIONS 18"	EACH	10
59300100	CONTROLLED LOW STRENGTH MATERIAL	CU. YD.	314.4
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	56
67100100	MOBILIZATION	LSUM	1
70106800	CHANGEABLE MESSAGE SIGN	Cal Mo	10
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	22432
Z0076600	TRAINEES	Hour	500
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	11.5
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	16907
X5430100	INSERTION CULVERT LINER (SPECIAL)	FOOT	34
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
XX000856	MAILBOX REMOVAL AND RELOCATION	EACH	5
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	500
Z0001110	GAS VALVE TO BE ADJUSTED	EACH	4
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0022800	FENCE REMOVAL	FOOT	877
Z0023602	GRANULAR CULVERT BACKFILL	CU. YD.	1288

• SEE SPECIAL PROVISIONS

CONSTRUCTION TYPE CODE: 0004

Δ SPECIALTY ITEMS

+ 0042

MIXTURE REQUIREMENTS

MIXTURE USE(S)	HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50	HOT MIX ASPHALT BINDER COURSE (2 1/4")	HOT MIX ASPHALT BASE COURSE WIDENING	HOT MIX ASPHALT LEVELING BINDER COURSE
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50
MIXTURE COMPOSITION	IL 9.5	IL 19.0	IL 19.0	IL 9.5 ONLY
FRICTION AGGREGATE	MIX C	N/A	N/A	N/A

FILE NAME	USER NAME	DESIGNED - RKA	REVISED -
DATE		DRAWN - RKA	REVISED -
		CHECKED - CPK	REVISED -
		DATE - 04/10/08	REVISED -

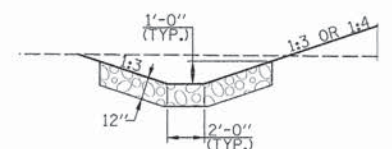
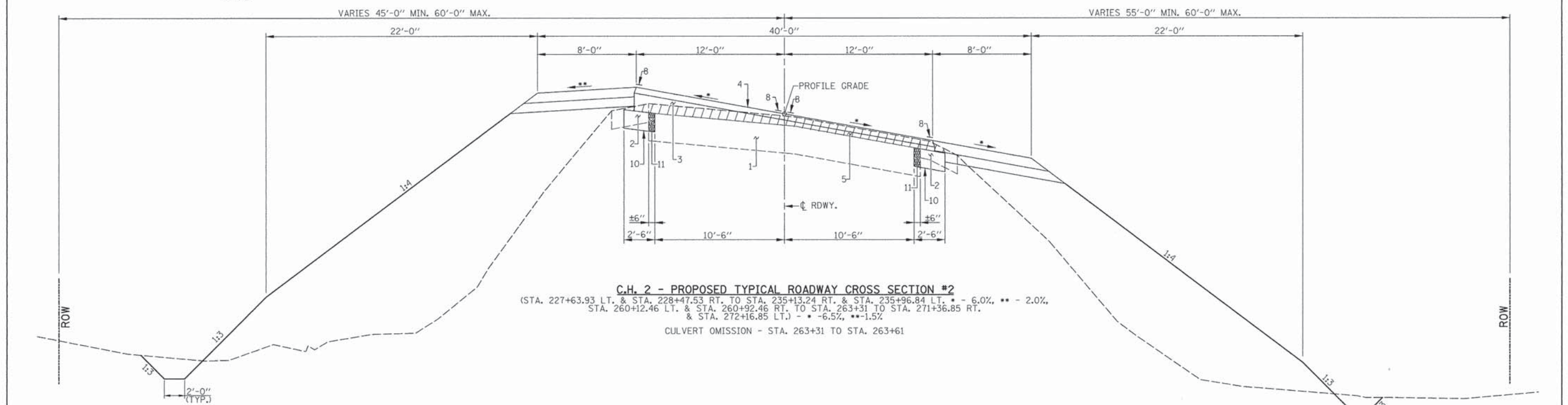
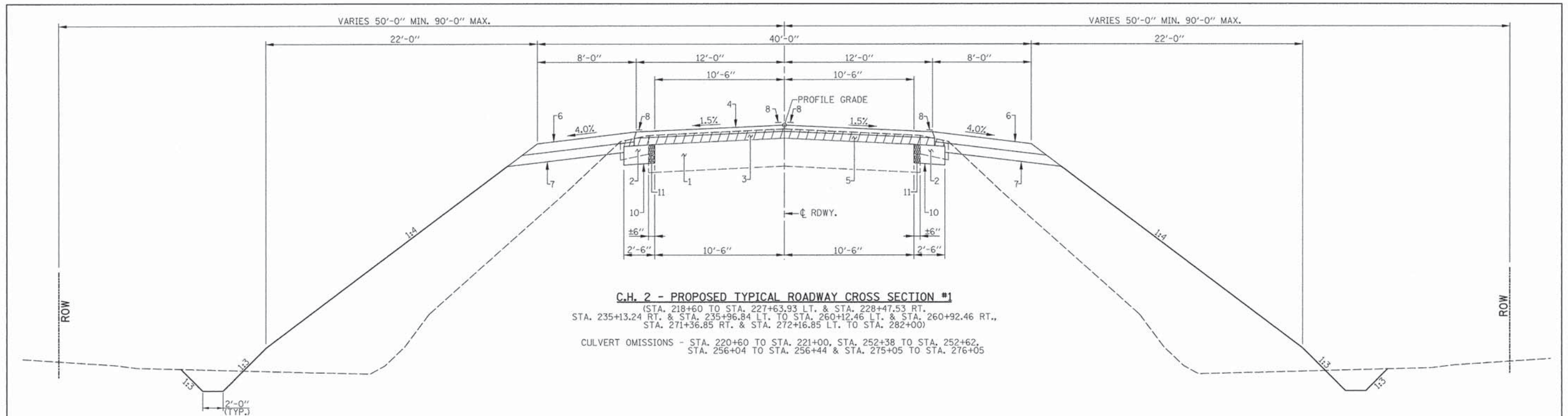


Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

GENERAL NOTES & SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 2 OF 68 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	2
CONTRACT NO. 9 3 6 0 9				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- PAVEMENT LEGEND**
1. EXISTING AGGREGATE BASE COURSE (VARIABLE DEPTH)
 2. EXISTING AGGREGATE SHOULDER
 3. PROPOSED LEVELING BINDER MACHINE METHOD, N50 (3/4" MIN.)
 4. PROPOSED HOT MIX ASPHALT SURFACE COURSE, MIX. C N50 (1 1/2")
 5. PROPOSED HOT MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH (3" MIN.)
 6. PROPOSED AGGREGATE SHOULDERS TYPE A (3")
 7. PROPOSED SHOULDERS (EXISTING ROADWAY MILLINGS) (3")
 8. PROPOSED PAINT PAVEMENT MARKING LINE 4"
 9. PROPOSED AGGREGATE BASE COURSE, TYPE A (12")
 10. PROPOSED HOT MIX ASPHALT BASE COURSE WIDENING (6")
 11. PAVEMENT REMOVAL
 12. PROPOSED HOT MIX ASPHALT BINDER COURSE, N50 (4 1/2")

▨ - INDICATES HMA SURF. REMOVAL
 ▩ - INDICATES HMA PAVEMENT REMOVAL

FILE NAME	USER NAME	DESIGNED	REVISED
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		DATE	REVISED

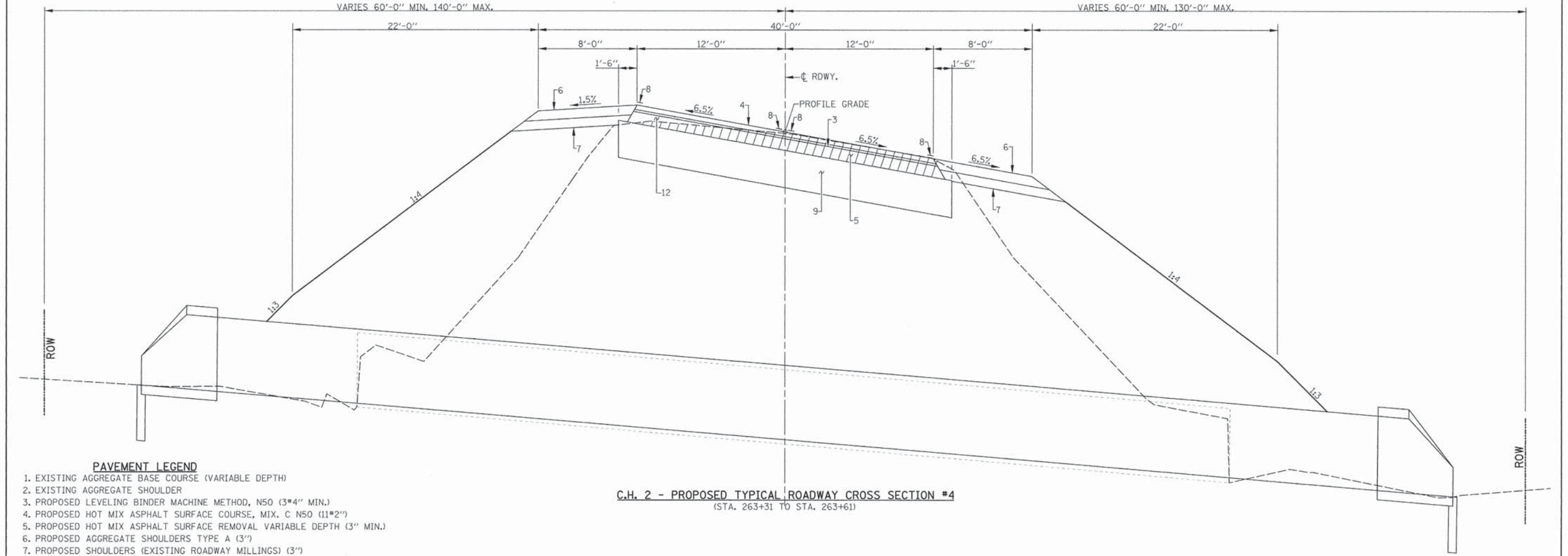
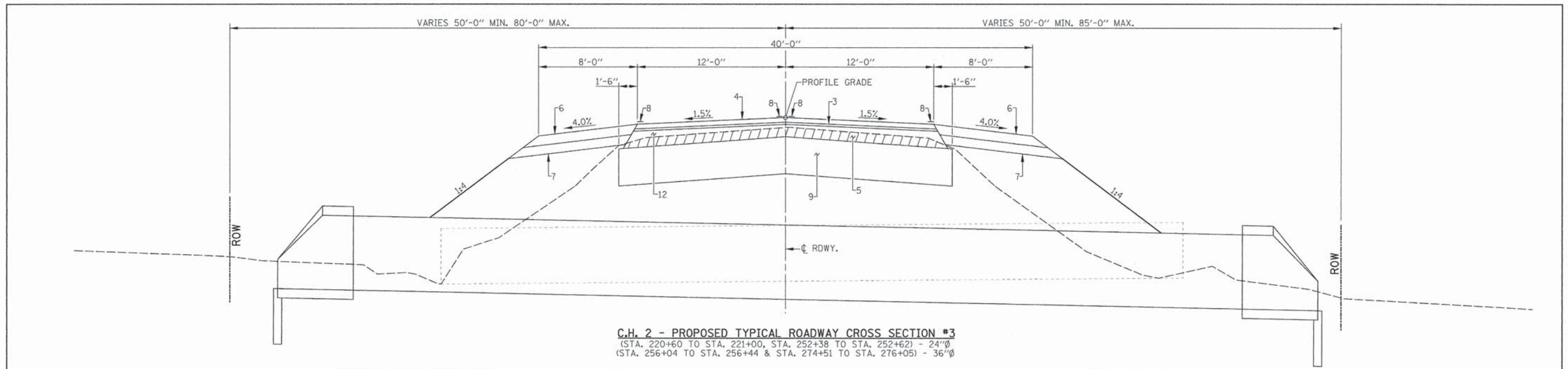
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TYPICAL SECTIONS

SCALE: NONE	SHEET NO. 3 OF 68 SHEETS
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	3
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 93609

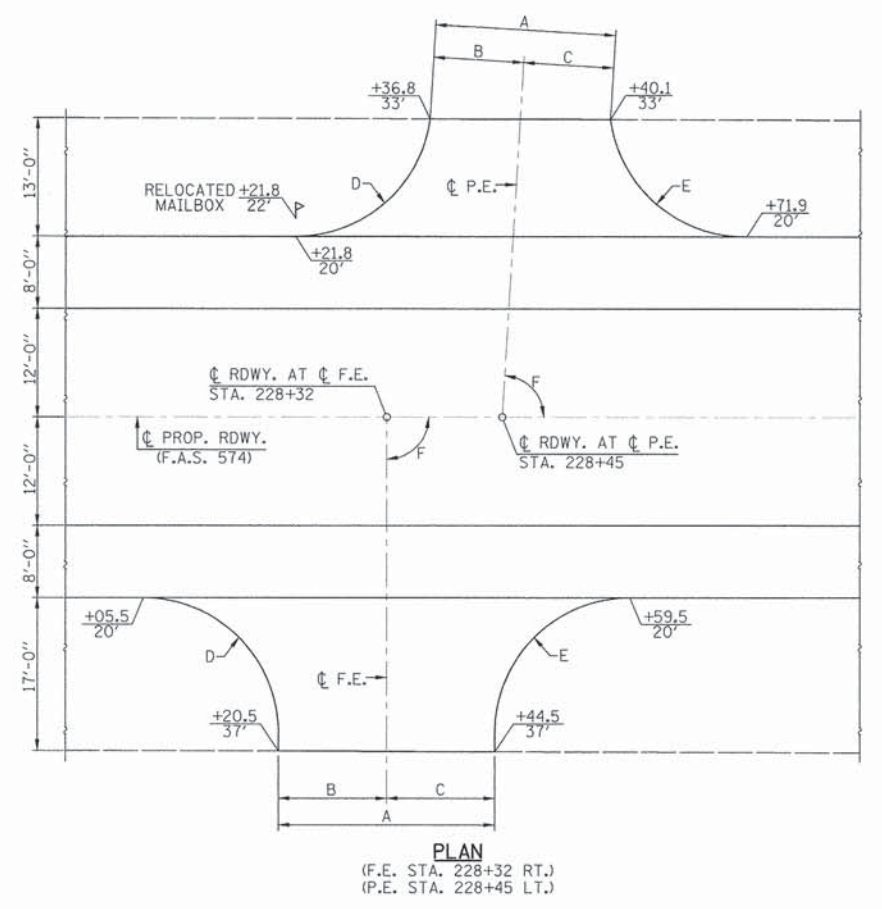
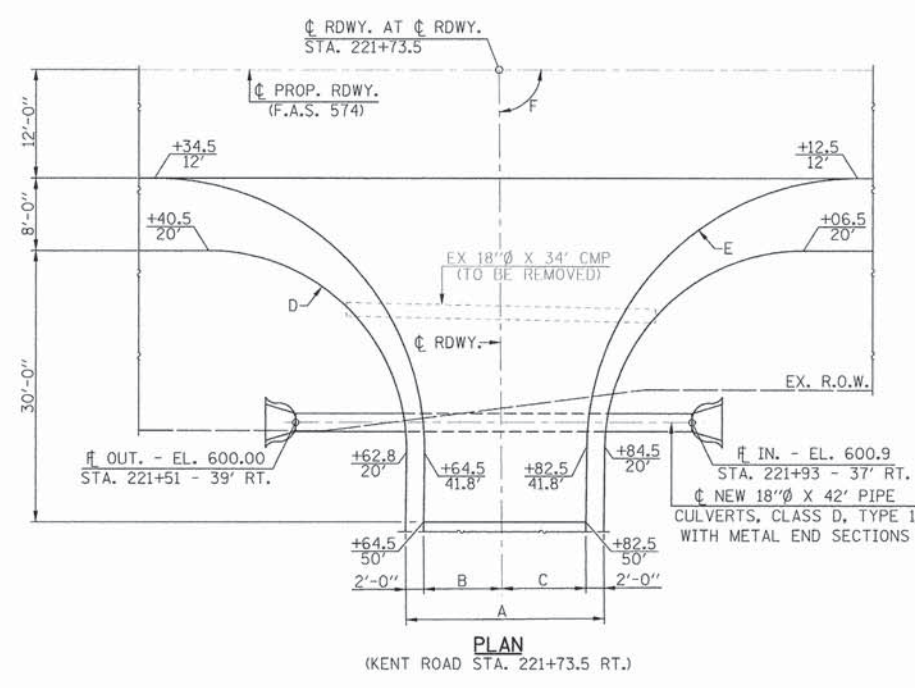
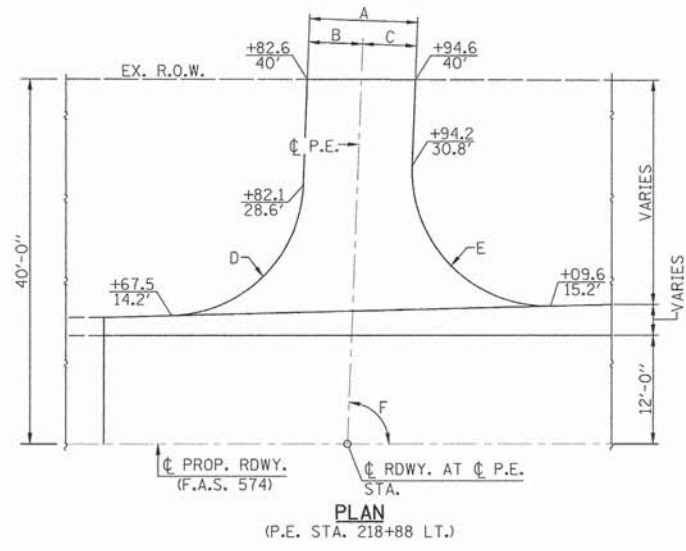


PAVEMENT LEGEND

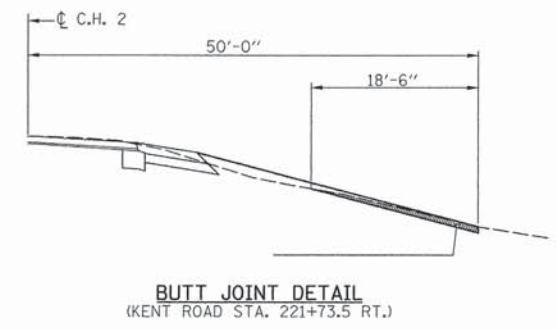
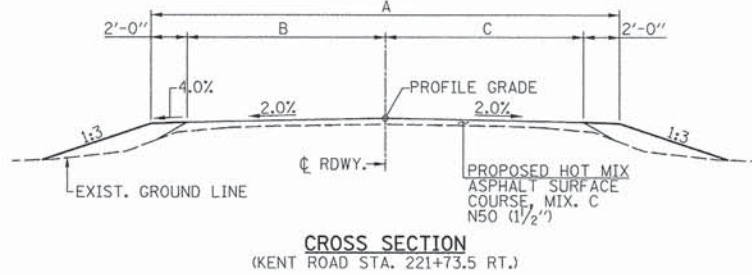
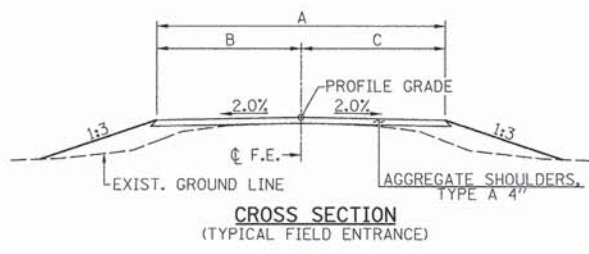
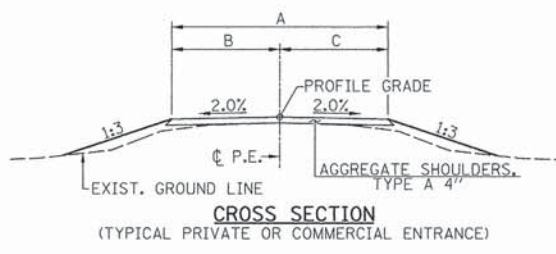
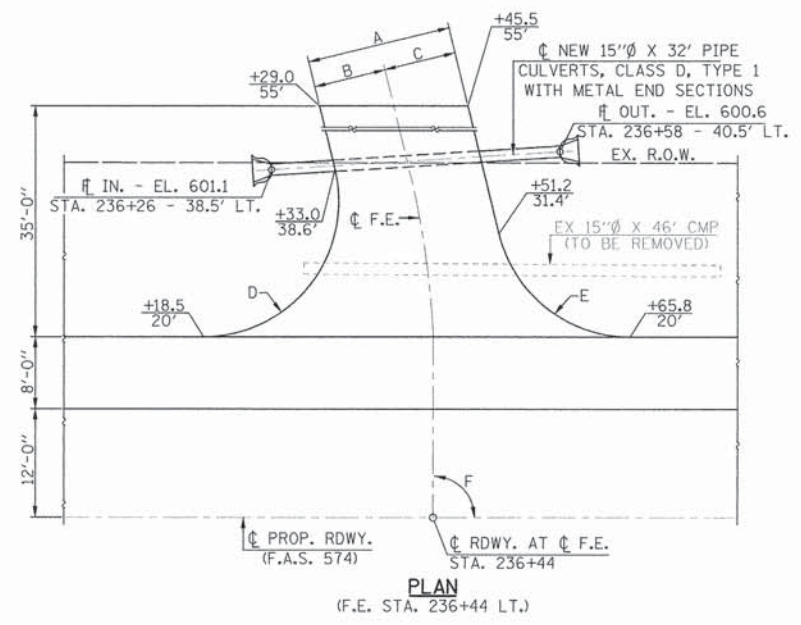
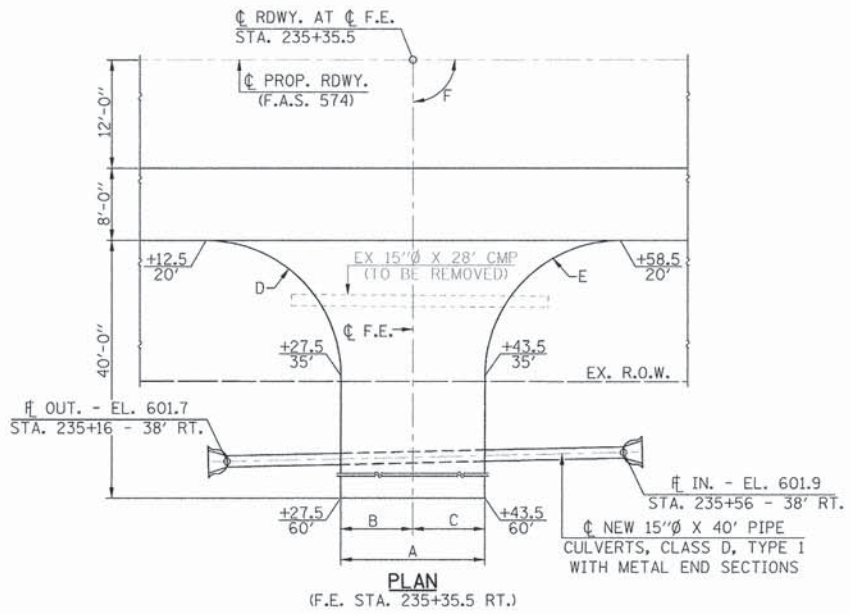
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2. EXISTING AGGREGATE SHOULDER
3. PROPOSED LEVELING BINDER MACHINE METHOD, N50 (3*4" MIN.)
4. PROPOSED HOT MIX ASPHALT SURFACE COURSE, MIX. C N50 (11*2")
5. PROPOSED HOT MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH (3" MIN.)
6. PROPOSED AGGREGATE SHOULDERS TYPE A (3")
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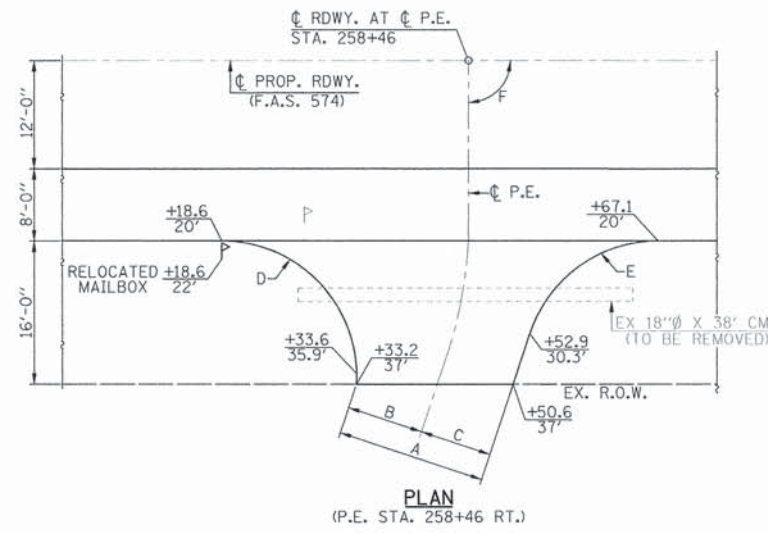
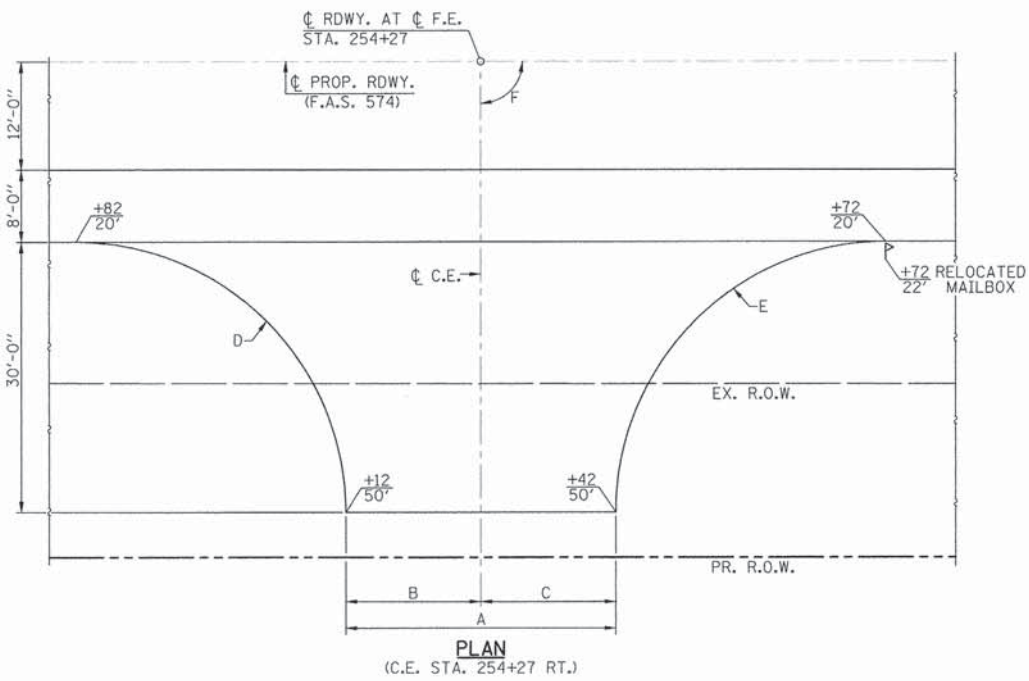
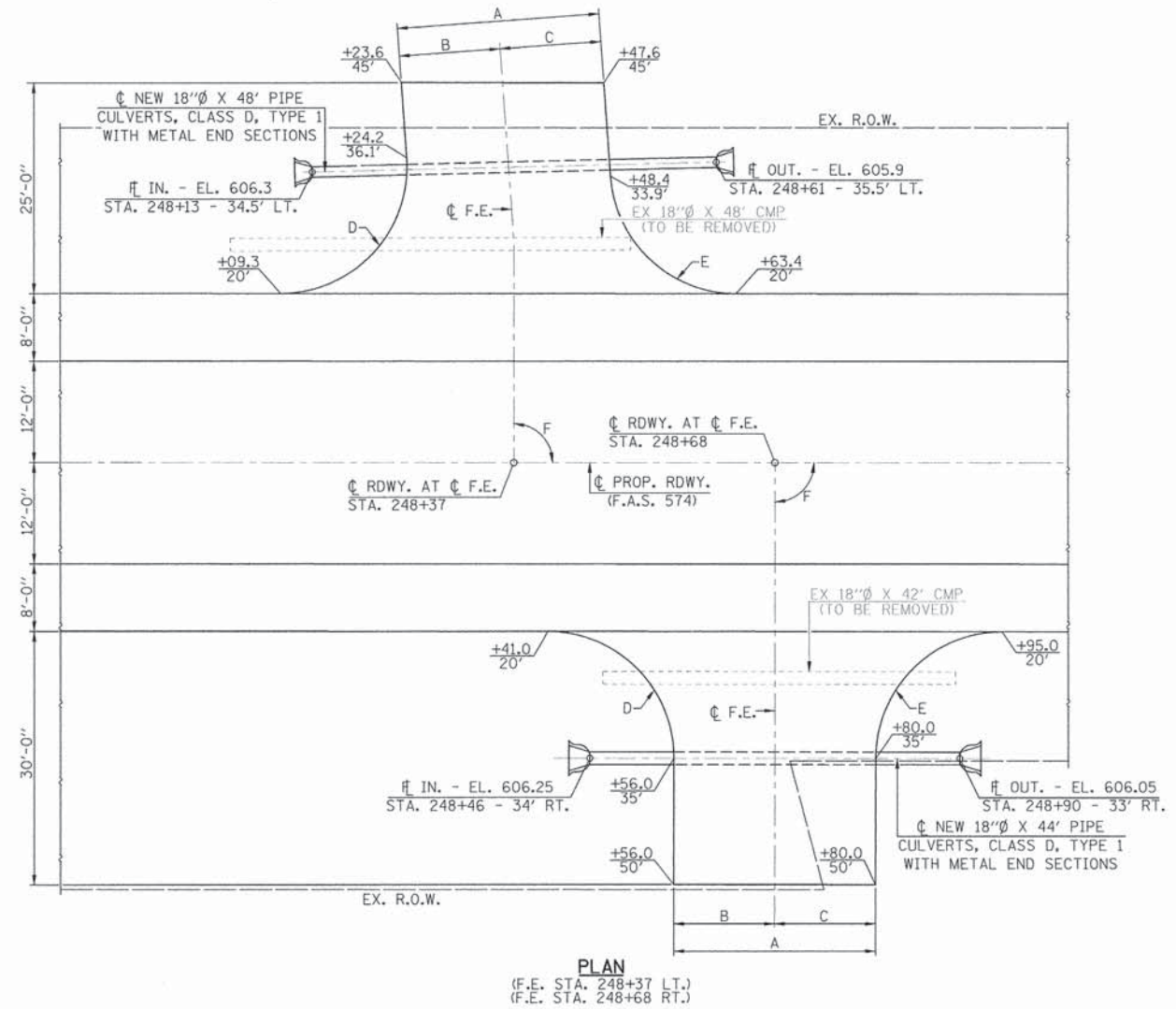
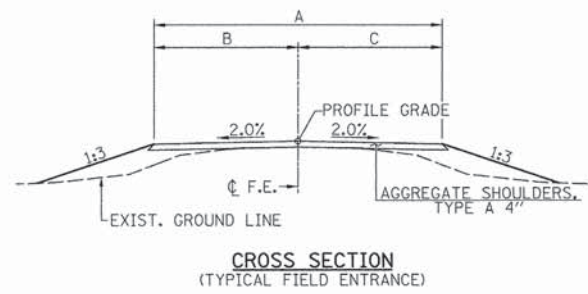
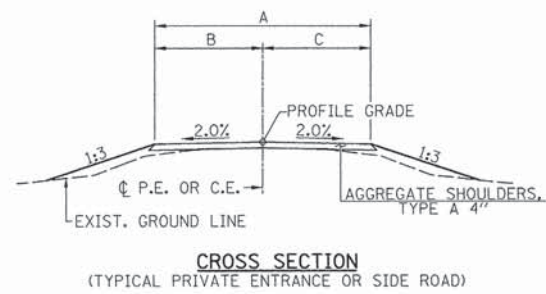
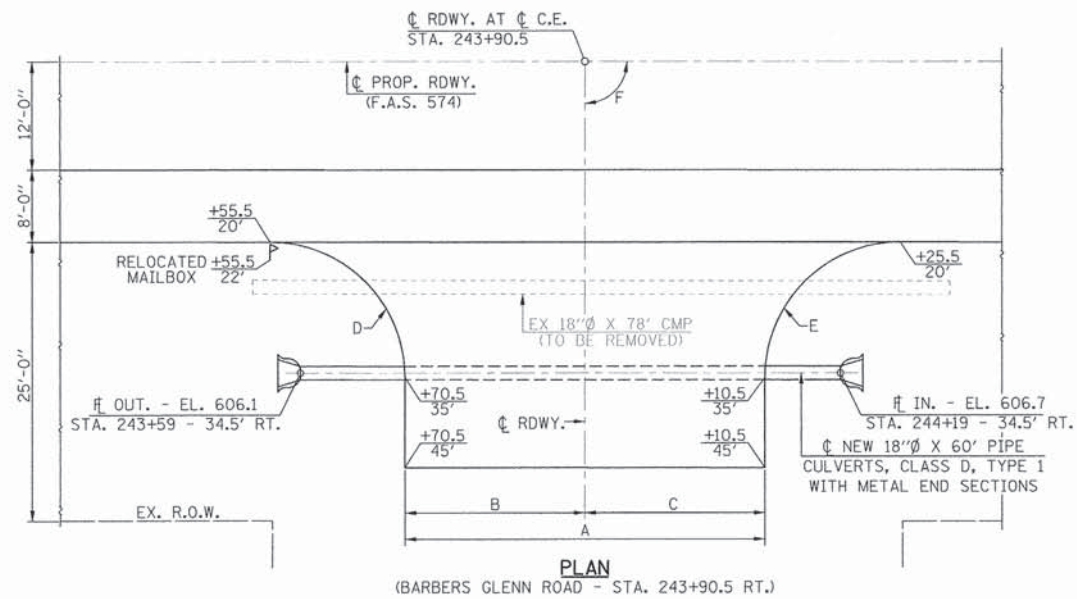
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- INDICATES HMA PAVEMENT REMOVAL

FILE NAME -	USER NAME - #USER#	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	TYPICAL SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 4 OF 68 SHEETS	574	08-00056-04-PV	MENARD	68	4
		CHECKED -	REVISED -		CONTRACT NO. 93609						
		DATE -	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT						

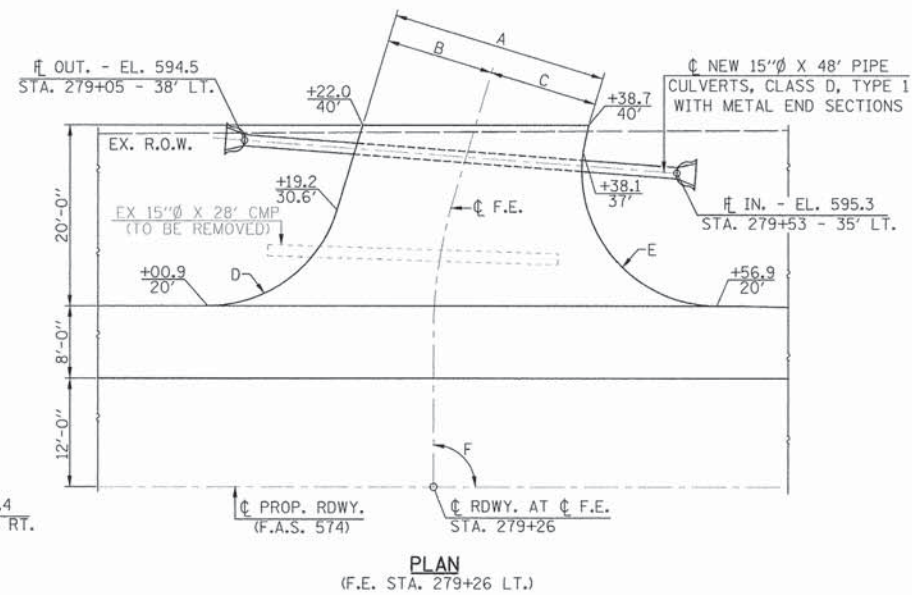
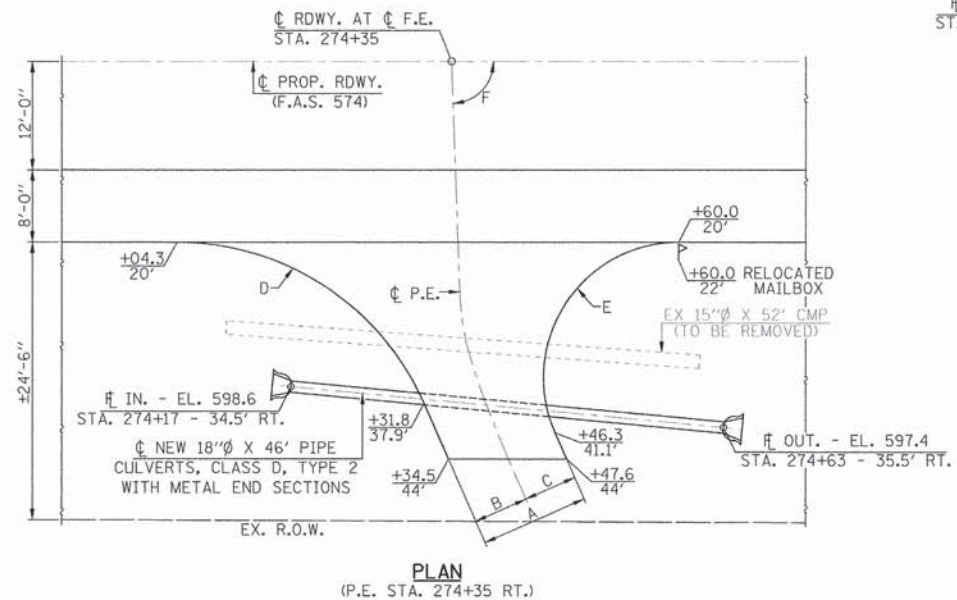
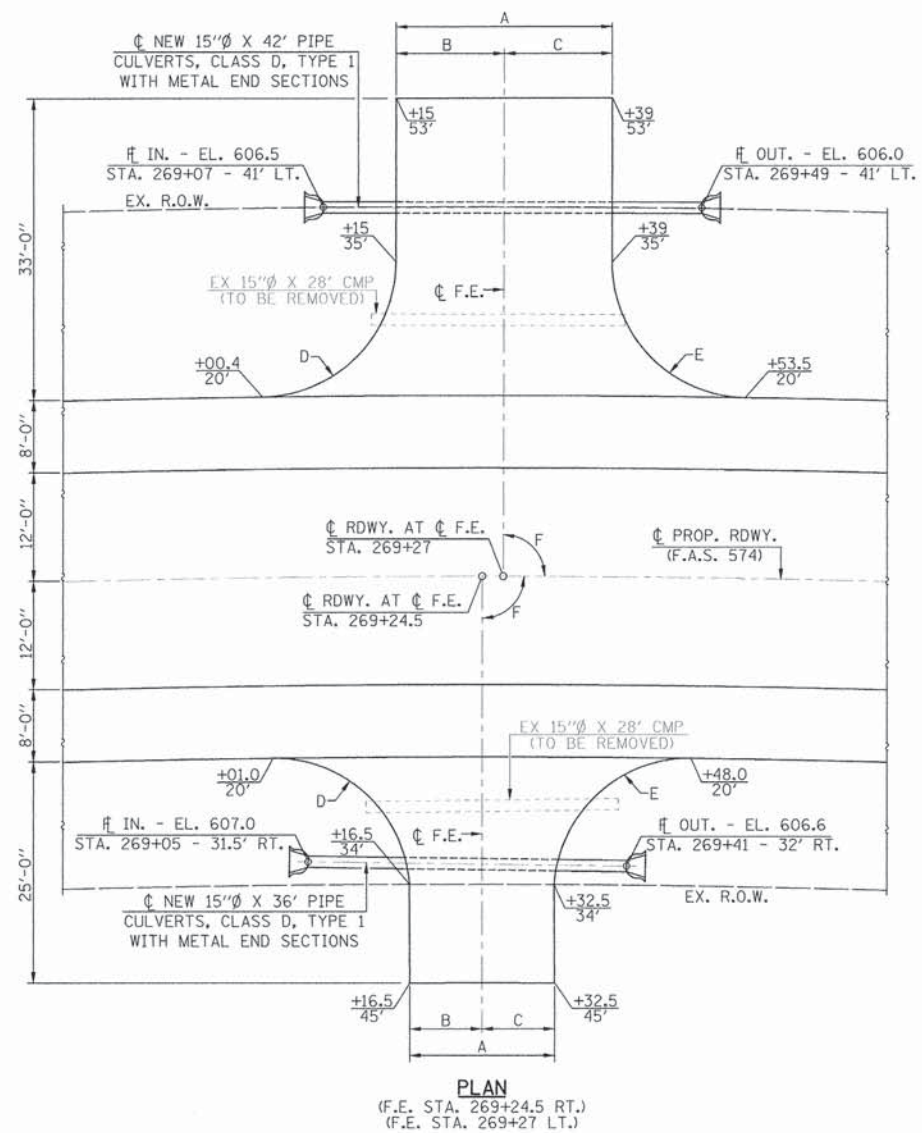


LOCATION	"A"	"B"	"C"	"D"	"E"	"F"
P.E. STA. 218+88 LT.	12'	6'	6'	15' R.	15' R.	88°
KENT ROAD STA. 221+73 RT.	22'	9'	9'	22' R.	30' R.	90°
F.E. STA. 228+32 RT.	24	12'	12'	15' R.	15' R.	90°
P.E. STA. 228+45 LT.	20'	10'	10'	15' R.	15' R.	86°30'
F.E. STA. 235+36 RT.	16'	8'	8'	15' R.	15' R.	90°
F.E. STA. 236+44 LT.	16'	8'	8'	15' R.	15' R.	90°

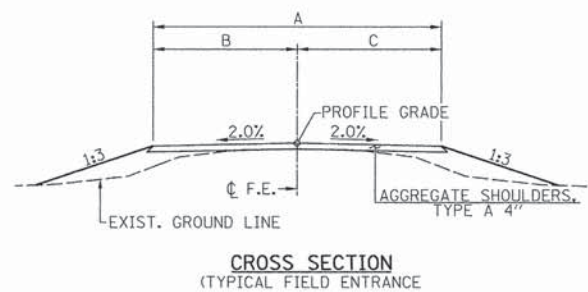
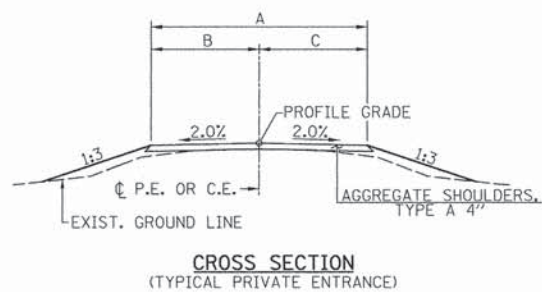


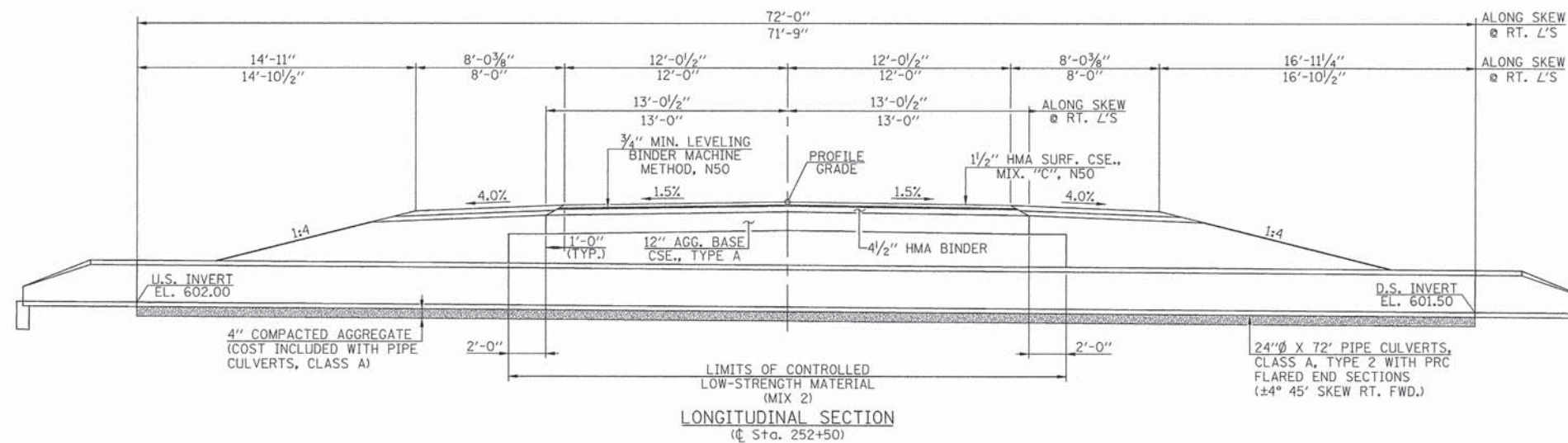
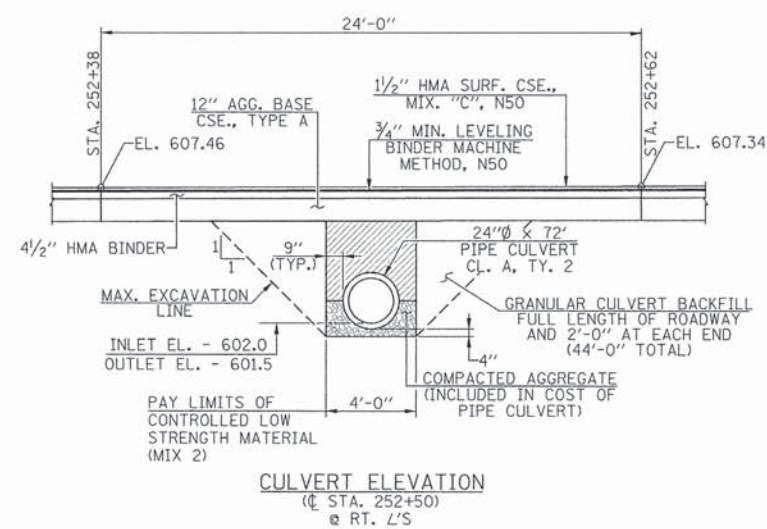
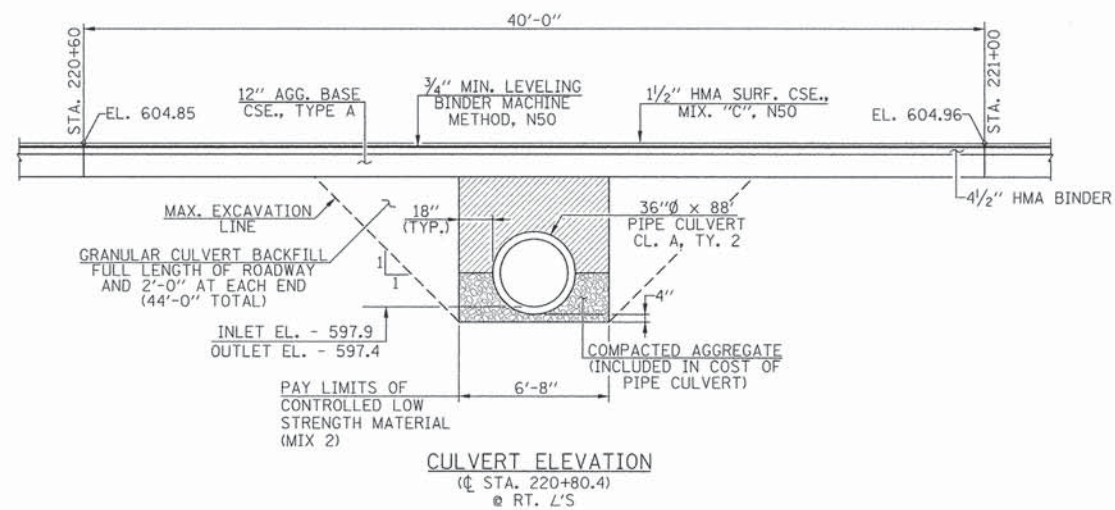
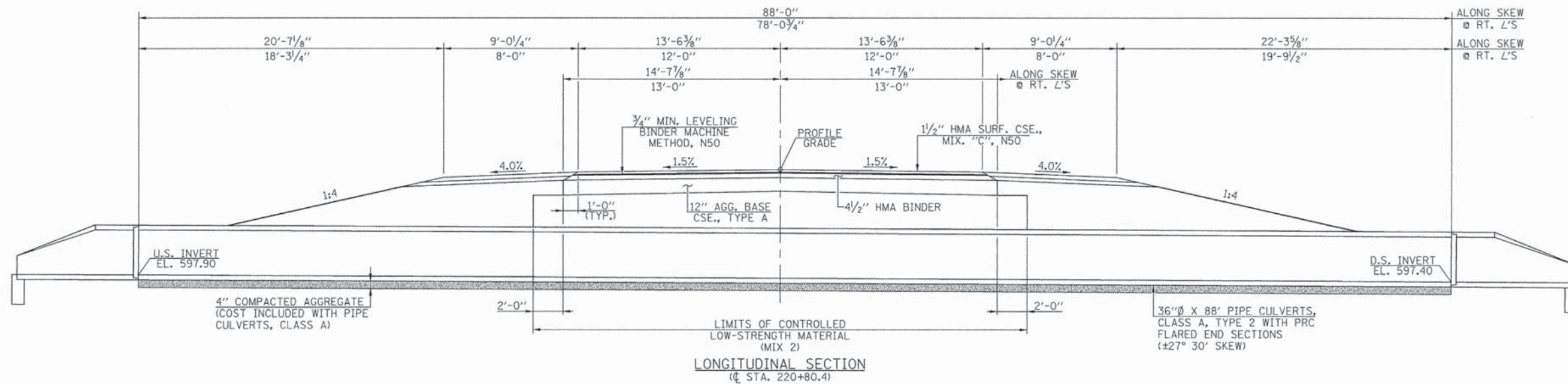


LOCATION	"A"	"B"	"C"	"D"	"E"	"F"
SIDE ROAD STA. 243+90.5 RT.	40'	20'	20'	15' R.	15' R.	90°
F.E. STA. 248+37 LT.	24'	12'	12'	15' R.	15' R.	90°
F.E. STA. 248+68 RT.	24'	12'	12'	15' R.	15' R.	90°
C.E. STA. 254+27 RT.	30'	15'	15'	30' R.	30' R.	90°
F.E. STA. 258+46 RT.	16'	8'	8'	15' R.	15' R.	90°

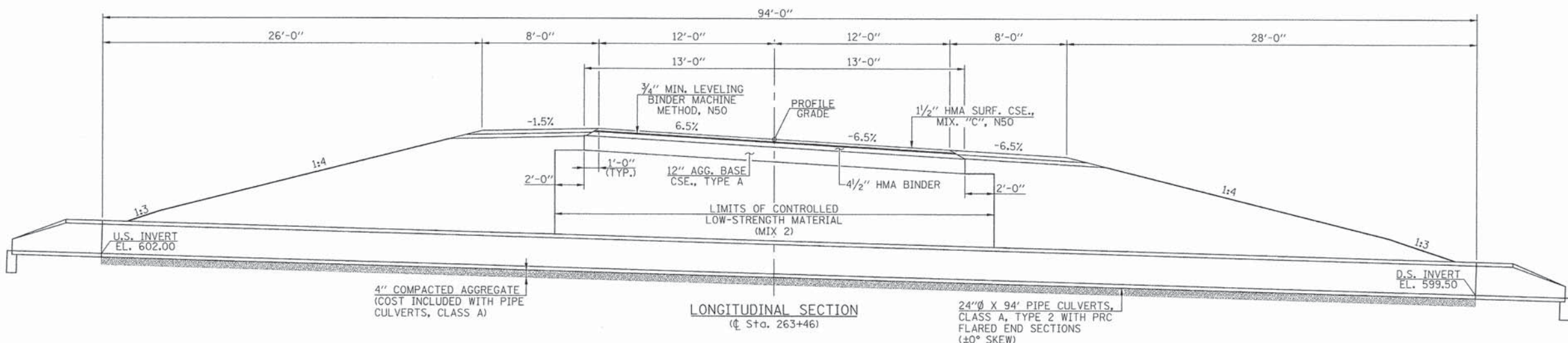
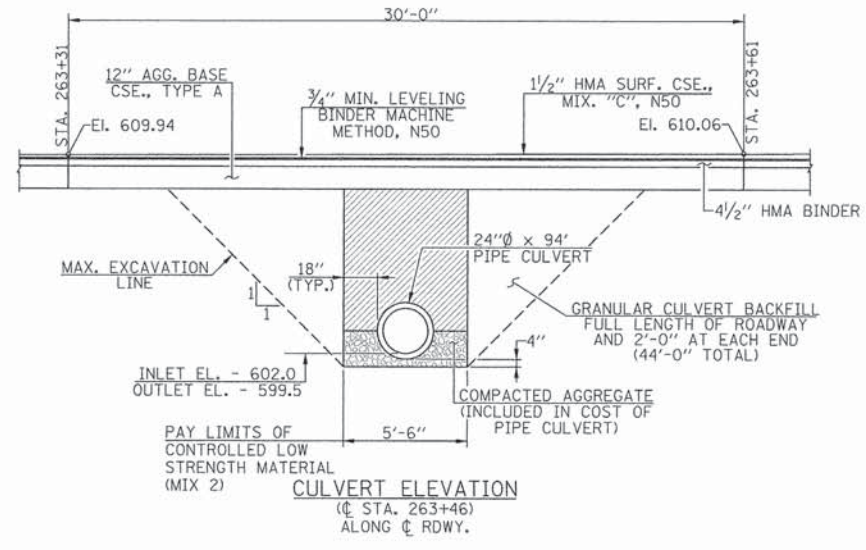
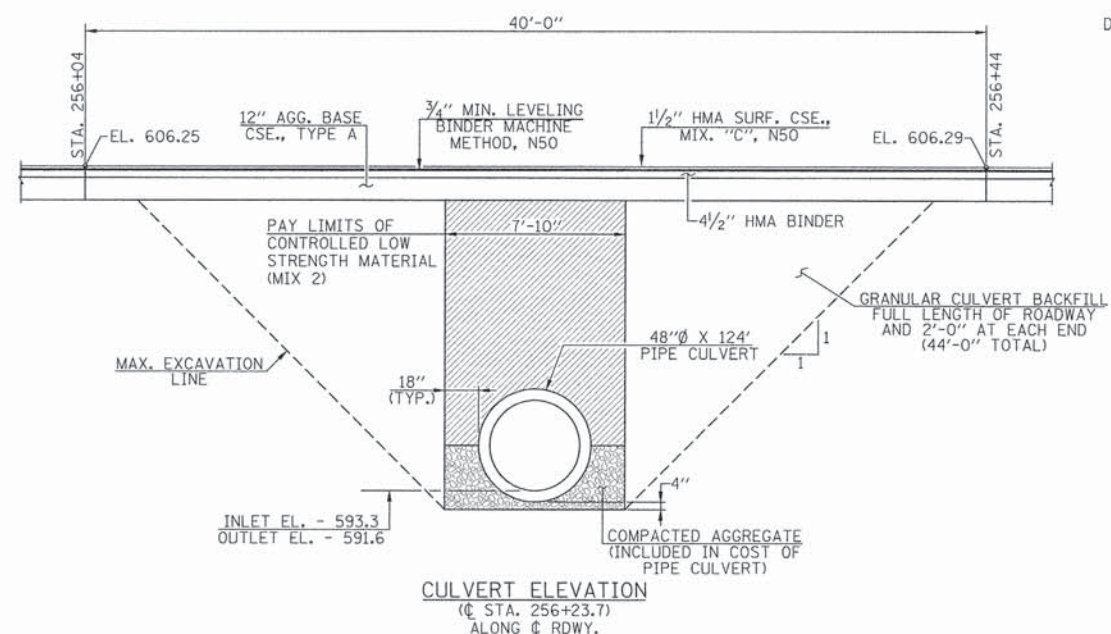
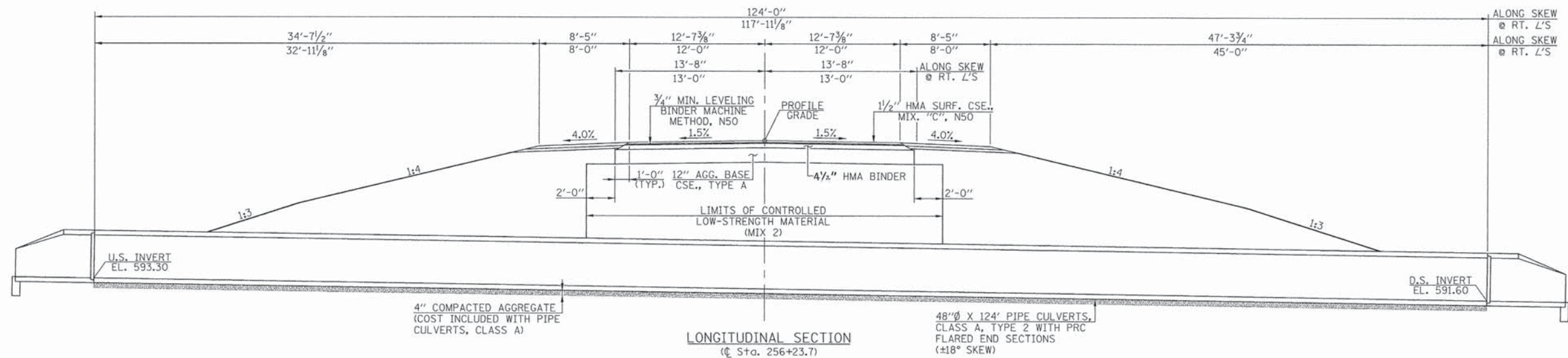


LOCATION	"A"	"B"	"C"	"D"	"E"	"F"
F.E. STA. 269+24 RT.	16'	8'	8'	15' R.	15' R.	90°
F.E. STA. 269+27 LT.	24'	12'	12'	15' R.	15' R.	90°
F.E. STA. 274+35 RT.	16'	8'	8'	15' R.	15' R.	90°
F.E. STA. 279+26 LT.	24'	12'	12'	15' R.	15' R.	90°

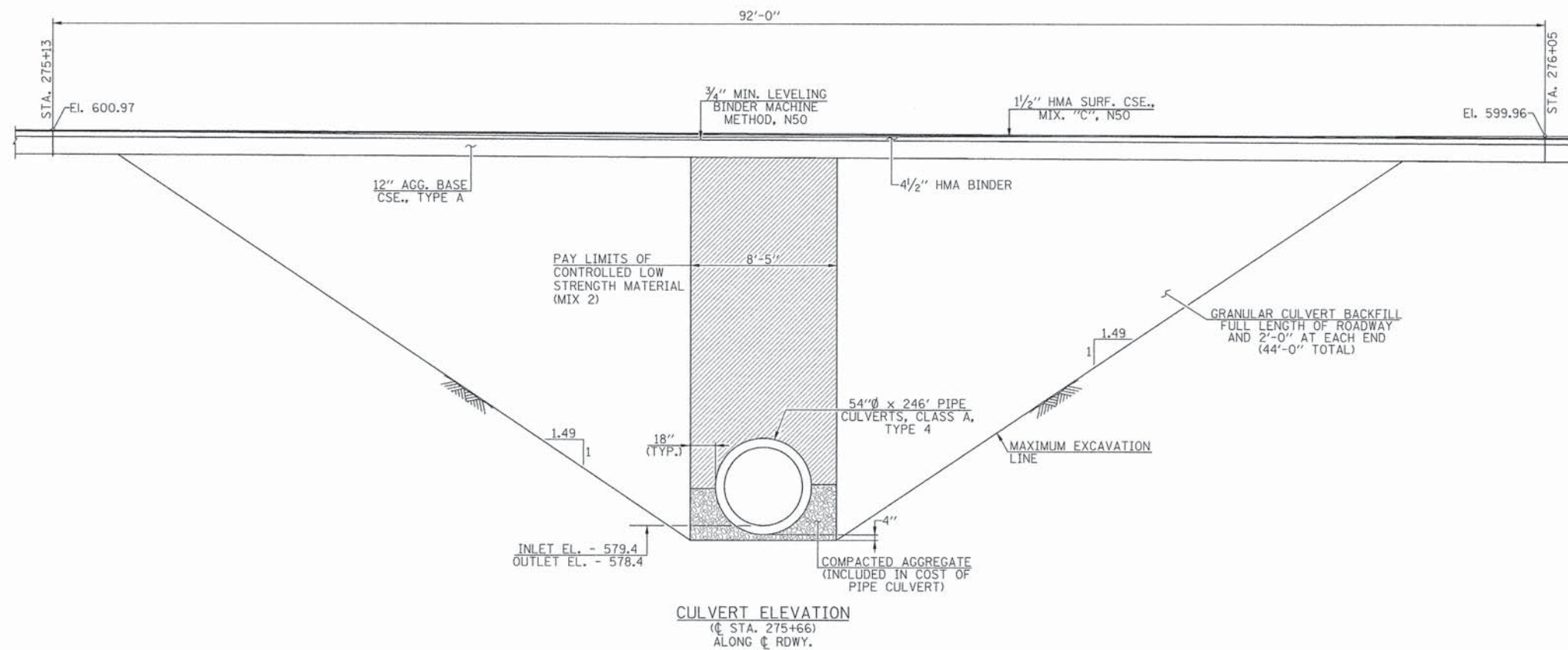
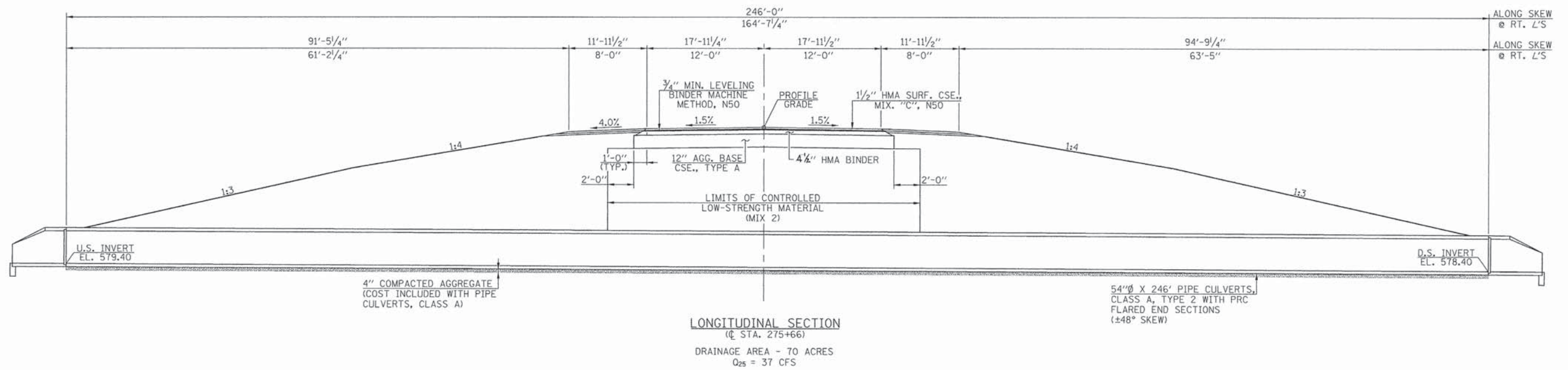




FILE NAME =	USER NAME =	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS ROAD CULVERT DETAILS SHEET NO. 1 OF 3 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	DRAWN -	REVISED -	574			08-00056-04-PV	MENARD	68	8	
PLOT DATE =	CHECKED -	REVISED -	CONTRACT NO. 93609							
ILLINOIS FED. AID PROJECT										



FILE NAME *	USER NAME *	DESIGNED -	REVISD -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS ROAD CULVERT DETAILS SHEET NO. 2 OF 3 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE *	DRAWN -	REVISD -	574			08-00056-04-PV	MENARD	68	9	
PLOT DATE *	CHECKED -	REVISD -	CONTRACT NO. 93609							
						ILLINOIS FED. AID PROJECT				



FILE NAME *	USER NAME *	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS ROAD CULVERT DETAILS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE *	DRAWN -	REVISED -	574				08-00056-04-PV	MENARD	68	10	
PLOT DATE *	CHECKED -	REVISED -	SHEET NO. 3 OF 3 SHEETS		CONTRACT NO. 9.3.6.0.9		ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 218+60 TO STA. 232+00	1888	1416	2448	-1032
STA. 232+00 TO STA. 246+00	3014	2260	2746	-486
STA. 246+00 TO STA. 260+00	1616	1212	3321	-2109
STA. 260+00 TO STA. 273+00	3374	2531	2543	-12
STA. 273+00 TO STA. 282+00	3983	2987	4813	-1826
TOTAL	13875	10406	15871	-5465

AGGREGATE SCHEDULE

LOCATION	AGGREGATE BASE COURSE, TYPE A (TON)	AGGREGATE SHOULDERS, TYPE A (TON)	AGGREGATE DITCH (TON)
STA. 237+00 TO STA. 239+50 LT. & RT.			165
STA. 255+00 TO STA. 257+50 LT. & RT.			163
STA. 262+50 TO STA. 264+50 LT. & RT.			171
STA. 273+50 TO STA. 277+50 LT. & RT.			309
STA. 270+60 TO STA. 221+00	79		
STA. 252+38 TO STA. 252+62	48		
STA. 256+04 TO STA. 256+44	79		
STA. 263+31 TO STA. 263+61	60		
STA. 275+13 TO STA. 276+05	182		
STA. 218+60 TO STA. 221+00 LT. & RT.		50	
STA. 221+00 TO STA. 279+60 LT. & RT.		2003	
STA. 279+60 TO STA. 282+00 LT. & RT.		50	
P.E. STA. 218+88 LT.		10	
F.E. STA. 228+32 RT.		13	
P.E. STA. 228+45 LT.		9	
F.E. STA. 235+36 RT.		19	
F.E. STA. 236+44 LT.		17	
STA. 243+90 RT. BARBERS GLENN ROAD		28	
F.E. STA. 248+37 LT.		13	
F.E. STA. 248+68 RT.		21	
C.E. STA. 254+27 RT.		33	
F.E. STA. 258+46 RT.		9	
F.E. STA. 269+24 RT.		13	
F.E. STA. 269+27 LT.		16	
P.E. STA. 274+35 RT.		12	
F.E. STA. 279+26 LT.		12	
TEMPORARY ACCESS QUANTITY		80	
TOTAL	450	2408	808

HOT MIX ASPHALT SCHEDULE

LOCATION	HMA BINDER COURSE IL-19.0 N50 (TON)	HMA SURF. COURSE MIX C N50 (TON)	HMA LEVELING BINDER (TON)	BIT. MATERIALS (PRIME COAT) (TON)	AGGREGATE PRIME COAT (TON)	HMA BASE CSE WIDENING (SQ. YD.)
STA. 218+60 TO STA. 232+00	28	300	615	1.4	7.2	737
STA. 232+00 TO STA. 246+00		314	717	1.4	7.5	799
STA. 246+00 TO STA. 260+00	44	314	659	1.4	7.5	801
STA. 260+00 TO STA. 273+00	20	291	799	1.3	6.9	902
STA. 273+00 TO STA. 282+00	104	202	238	0.9	4.8	445
KENT ROAD - STA. 221+74 RT.		10		0.1	0.2	
TOTAL	196	1431	3028	6.5	34.1	3684

BITUMINOUS MATERIALS (PRIME COAT)

LOCATION	QUANTITY (GALLON)
STA. 218+60 TO STA. 282+00 (ON PAVEMENT)	1676
KENT ROAD (ON PAVEMENT)	12
STA. 220+60 TO STA. 221+00 (ON AGGREGATE)	43
STA. 252+38 TO STA. 252+62 (ON AGGREGATE)	26
STA. 256+04 TO STA. 256+44 (ON AGGREGATE)	43
STA. 263+31 TO STA. 263+61 (ON AGGREGATE)	33
STA. 274+51 TO STA. 276+05 (ON AGGREGATE)	167
TOTAL	2000

SCHEDULE PAVEMENT REMOVAL

LOCATION	QUANTITY (SQ. YD.)
STA. 218+60 TO STA. 220+60 LT. & RT.	22
STA. 220+60 TO STA. 221+00	98
STA. 221+00 TO STA. 252+38 LT & RT.	349
STA. 252+38 TO STA. 252+62	59
STA. 252+62 TO STA. 256+04 LT. & RT.	38
STA. 256+04 TO STA. 256+44	98
STA. 256+44 TO STA. 263+31 LT. & RT.	77
STA. 263+31 TO STA. 263+61	74
STA. 263+61 TO STA. 275+05 LT. & RT.	128
STA. 275+13 TO STA. 276+05	225
STA. 276+05 TO STA. 282+00 LT. & RT.	66
TOTAL	1234

SCHEDULE HOT MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

LOCATION	QUANTITY (SQ. YD.)
STA. 218+60 TO STA. 282+00	16907
TOTAL	16907

SCHEDULE HOT MIX ASPHALT SURFACE REMOVAL-BUTT JOINT

LOCATION	QUANTITY (SQ. YD.)
KENT ROAD - STA. 221+74	38
TOTAL	38

SCHEDULE PIPE CULVERT REMOVAL

LOCATION	QUANTITY (FOOT)
STA. 220+80.4	68
STA. 221+57 TO STA. 221+91 RT.	34
STA. 235+22 TO STA. 235+50 RT.	28
STA. 236+30 TO STA. 236+76 LT.	46
STA. 243+54 TO STA. 244+32 RT.	78
STA. 248+03 TO STA. 244+32 RT.	48
STA. 248+48 TO STA. 248+90 RT.	42
STA. 252+50	60
STA. 254+21 TO STA. 254+55 RT.	34
STA. 256+24	90
STA. 258+27 TO STA. 258+65 RT.	38
STA. 263+46	72
STA. 269+11 TO STA. 269+39 RT.	28
STA. 269+13 TO STA. 269+41 LT.	28
STA. 274+10 TO STA. 274+62 RT.	52
STA. 274+68	44
STA. 275+66	144
STA. 279+07 TO STA. 279+39 LT.	32
TOTAL	966

SCHEDULE CONTROLLED LOW STRENGTH MATERIAL

LOCATION	QUANTITY (CU. YD.)
STA. 220+80.4	26.0
STA. 252+50	11.5
STA. 256+23.7	80.3
STA. 263+46	38.2
STA. 274+67.6 CULVERT TO BE FILLED	46.1
STA. 275+66	112.3
TOTAL	314.4

SCHEDULE PIPE CULVERTS, CLASS D, 18" & METAL END SECTIONS

LOCATION	PIPE CULVERTS (FOOT)		METAL END SECTIONS (EACH)
	TYPE 1	TYPE 2	
STA. 221+51 TO STA. 221+93 RT.	42		2
STA. 243+59 TO STA. 244+19 RT.	60		2
STA. 248+13 TO STA. 248+61 LT.	48		2
STA. 248+46 TO STA. 248+90 RT.	44		2
STA. 274+17 TO STA. 274+63 RT.		46	2
TOTAL	194	46	10

SCHEDULE PRECAST FLARED END SECTIONS

LOCATION	24" QUANTITY (EACH)	36" QUANTITY (EACH)	48" QUANTITY (EACH)	54" QUANTITY (EACH)
STA. 252+50	2			
STA. 263+46	2			
STA. 220+80.4		2		
STA. 256+24			2	
STA. 275+66				2
TOTAL	4	2	2	2

SCHEDULE PIPE CULVERTS CLASS D, TYPE 1 15" & METAL END SECTIONS

LOCATION	QUANTITY (FOOT)	METAL END SECTIONS (EACH)
STA. 235+16 TO STA. 235+56 RT.	40	2
STA. 236+26 TO STA. 236+58 LT.	32	2
STA. 269+07 TO STA. 269+49 LT.	42	2
STA. 269+05 TO STA. 269+41 RT.	36	2
STA. 279+05 TO STA. 279+53 LT.	48	2
TOTAL	198	10

SCHEDULE PIPE CULVERTS, CLASS D, TYPE 1, 36"

LOCATION	QUANTITY (FOOT)
STA. 238+22 N. (24') & S. (10')	34
TOTAL	34

SCHEDULE INSERTION CULVERT LINER (SPECIAL)

LOCATION	QUANTITY (FOOT)
STA. 278+69.4 12' LT. & 22' RT.	34
TOTAL	34

SCHEDULE PIPE CULVERTS CLASS A

LOCATION	TYPE 2 24" (FOOT)	TYPE 2 36" (FOOT)	TYPE 2 48" (FOOT)	TYPE 4 54" (FOOT)
STA. 252+50	72			
STA. 263+46	94			
STA. 220+80.4		88		
STA. 256+24			124	
STA. 275+66				246
TOTAL	166	88	124	246

QUANTITY SCHEDULES

SCALE: NONE SHEET NO. 12 OF 68 SHEETS

PAINT PAVEMENT MARKING SCHEDULE

LOCATION	WHITE SOLID (FOOT)	YELLOW SOLID (FOOT)	YELLOW 10' STRIPE 30' SKIP DASH (FOOT)
STA. 218+60 TO STA. 222+10 & KENT ROAD	732		90
STA. 222+10 TO STA. 232+00 SOLID YELLOW RT.	1980	990	250
STA. 232+00 TO STA. 242+50 DOUBLE NO PASSING	2100	2100	
STA. 242+50 TO STA. 252+00 SOLID YELLOW LT.	1900	950	240
STA. 252+00 TO STA. 253+00	200	200	
STA. 253+00 TO STA. 265+00 SOLID YELLOW RT.	2400	1200	300
STA. 265+00 TO STA. 282+00 DOUBLE NO PASSING	3400	3400	
SUB-TOTAL	12712	8840	880
TOTAL		22432	

SCHEDULE FURNISHING AND ERECTING RIGHT OF WAY MARKERS

LOCATION	QUANTITY (EACH)
STA. 217+52.96 40' LT. & 50' LT.	2
STA. 218+60 40' RT. & 60' RT.	2
STA. 221+54 60' RT.	1
STA. 221+90 50' RT. & 60' RT.	2
STA. 226+00 60' LT.	1
STA. 227+00 45' LT.	1
STA. 229+20.68 45' LT.	1
STA. 229+20.68 50' RT.	1
STA. 231+50 55' LT.	1
STA. 234+40.09 60' LT. & RT.	2
STA. 237+50 60' LT. & 80' LT., 80' RT. & 50' RT.	4
STA. 238+50 80' LT. & 65' LT.	2
STA. 239+18.36 80' RT.	1
STA. 239+44.53 51.18' RT.	1
STA. 241+00 65' LT.	1
STA. 243+00 50' LT.	1
STA. 255+25 50' LT. & 145' LT.	2
STA. 255+23.37 50' RT.	1
STA. 255+30.01 85' RT.	1
STA. 256+50 145' LT. & 70' LT.	2
STA. 257+00 85' RT.	1
STA. 258+00 50' RT.	1
STA. 260+00 60' LT.	1
STA. 261+62.46 60' LT. & 50' RT.	2
STA. 263+00 50' RT. & 60' LT.	2
STA. 264+00 50' RT. & 60' LT.	2
STA. 269+00 60' LT.	1
STA. 270+66.86 70' LT. & 50' RT.	2
STA. 271+00 60' RT.	1
STA. 273+60 70' LT.	1
STA. 274+00 60' RT.	1
STA. 275+15 146.09' LT.	1
STA. 275+40 146.06' LT.	1
STA. 276+40 70' LT.	1
STA. 276+10 130' RT.	1
STA. 276+50 130' RT.	1
STA. 277+25 70' RT.	1
STA. 278+49.08 70' RT.	1
STA. 281+00 60' LT. & RT.	2
STA. 282+00 41' LT. & 60' RT.	2
TOTAL	56

SCHEDULE FENCE REMOVAL

LOCATION	QUANTITY (FOOT)
STA. 257+10 45' RT. TO STA. 257+17 73' RT.	29
STA. 273+67 72' LT. TO STA. 274+00 39' RT.	55
STA. 274+34 60' LT. TO STA. 274+66 33' RT.	42
STA. 274+63 41' RT. TO STA. 275+83 50' RT.	141
STA. 275+83 50' RT. TO STA. 278+59 42' RT.	276
STA. 279+00 42' RT. TO STA. 282+00 42' RT.	300
STA. 279+79 42' RT. TO STA. 280+24 64' RT.	34
TOTAL	877

SCHEDULE GAS VALVE TO BE ADJUSTED

LOCATION	QUANTITY (EACH)
STA. 221+55 47' RT.	1
STA. 228+71 32' RT.	1
STA. 228+72 32' RT.	1
STA. 257+12 47' RT.	1
TOTAL	4

SCHEDULE MAILBOX REMOVAL AND RELOCATION

RELOCATED LOCATION	QUANTITY (EACH)
P.E. STA. 228+21.8 22' LT.	1
P.E. STA. 243+55.5 22' RT.	1
C.E. STA. 254+72 22' RT.	1
P.E. STA. 258+18.6 22' RT.	1
P.E. STA. 274+60 22' RT.	1
TOTAL	5

SCHEDULE SEEDING CLASS 2 SPECIAL & TEMPORARY EROSION CONTROL SEEDING

LOCATION	QUANTITY (ACRE)	QUANTITY (POUND)
STA. 218+60 TO STA. 232+00 LT.	1.1	110
STA. 232+00 TO STA. 246+00 LT.	1.3	130
STA. 246+00 TO STA. 260+00 LT.	1.3	130
STA. 260+00 TO STA. 273+00 LT.	1.3	130
STA. 273+00 TO STA. 282+00 LT.	1.2	120
STA. 218+60 TO STA. 232+00 RT.	1.0	100
STA. 232+00 TO STA. 246+00 RT.	1.1	110
STA. 246+00 TO STA. 260+00 RT.	1.1	110
STA. 260+00 TO STA. 273+00 RT.	0.9	90
STA. 273+00 TO STA. 282+00 RT.	1.2	120
TOTAL	11.5	1150

SCHEDULE INLET AND PIPE PROTECTION

LOCATION	QUANTITY (EACH)
STA. 221+93 37' RT.	1
STA. 235+16 38' RT.	1
STA. 236+26 38.5' LT.	1
STA. 244+19 34.5' RT.	1
STA. 248+13 34.5' LT.	1
STA. 248+46 34' RT.	1
STA. 269+05 31.5' RT.	1
STA. 269+07 41' LT.	1
STA. 274+17 34.5' RT.	1
STA. 279+53 35' RT.	1
TOTAL	10

SCHEDULE TREE REMOVAL

LOCATION	6 TO 15 UNITS DIAMETER (UNIT)	OVER 15 UNITS DIAMETER (UNIT)	ACRES (ACRE)
STA. 233+91 45' LT.	12		
STA. 256+03 52' LT.	10		
STA. 256+11 55' LT.	10		
STA. 257+14 48' RT.	6		
STA. 278+27 39' RT.	10		
STA. 278+49 44' RT.	6		
STA. 280+00 62' RT.	30 (5X6)		
STA. 280+27 41' RT.	60 (4X15)		
STA. 277+43 40' RT.		24	
STA. 273+32 36' LT. TO 63' LT. TO STA. 276+22 31' LT. TO 63' LT.			0.22
STA. 274+68 34' RT. TO STA. 277+30 RT. TO PROP. R.O.W.			0.16
STA. 280+61 40' RT. TO STA. 281+64 RT. TO PROP. R.O.W.			0.02
TOTAL	144	24	0.40

* INCLUDES 7 SMALL TREES FROM STA. 273+29 TO STA. 273+99 RT.

SCHEDULE PERIMETER EROSION BARRIER

LOCATION	QUANTITY (FOOT)
STA. 218+60 TO STA. 234+40 LT.	1542
STA. 234+40 TO STA. 255+00 LT.	2165
STA. 255+00 TO STA. 270+67 LT.	1642
STA. 270+67 TO STA. 277+00 LT.	680
STA. 277+00 TO STA. 282+00 LT.	487
STA. 218+60 TO STA. 221+54 RT.	294
STA. 221+90 TO STA. 238+00 RT.	1585
STA. 238+00 TO STA. 255+50 RT.	1683
STA. 255+50 TO STA. 270+67 RT.	1511
STA. 270+67 TO STA. 277+00 RT.	652
STA. 277+00 TO STA. 282+00 RT.	479
TOTAL	12720

SCHEDULE TEMPORARY DITCH CHECKS

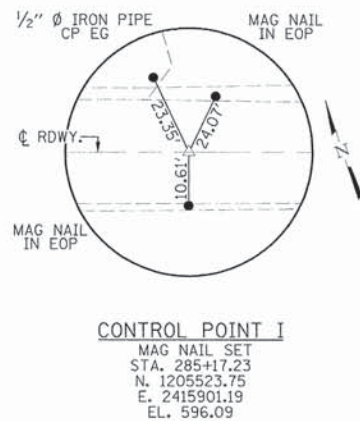
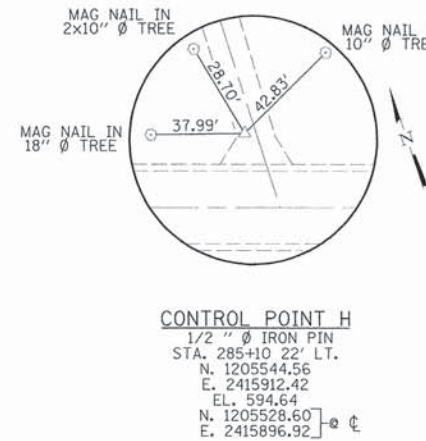
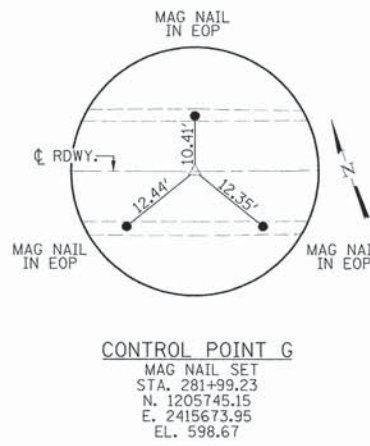
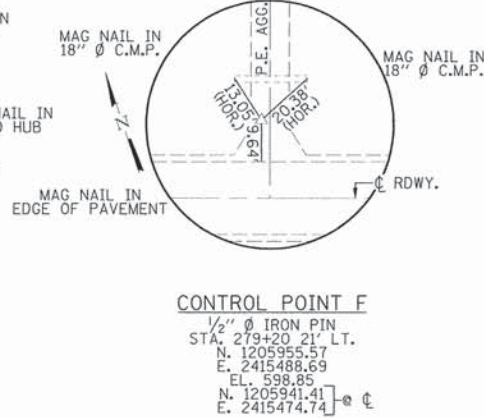
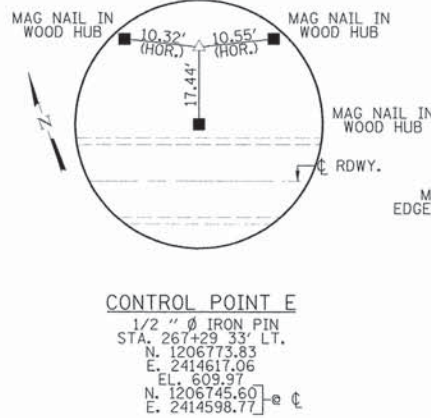
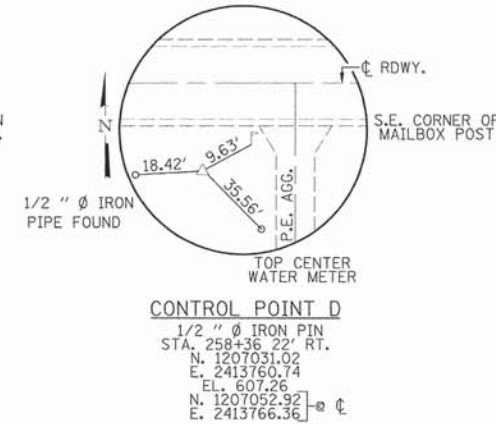
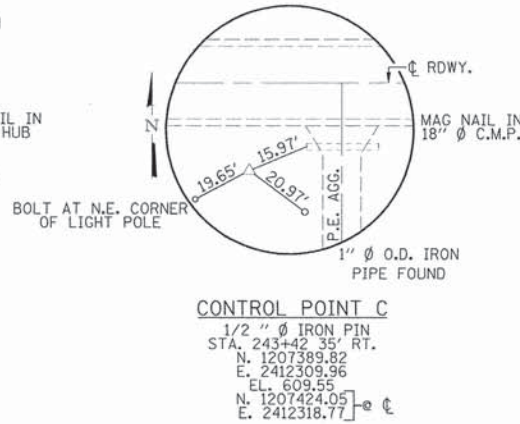
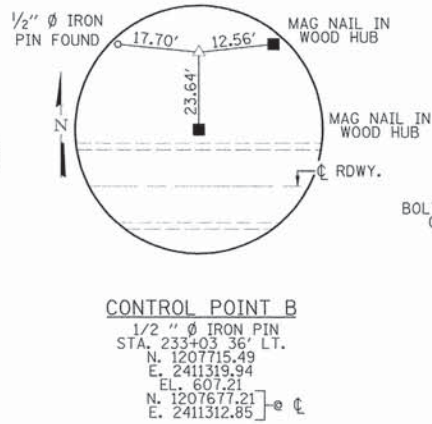
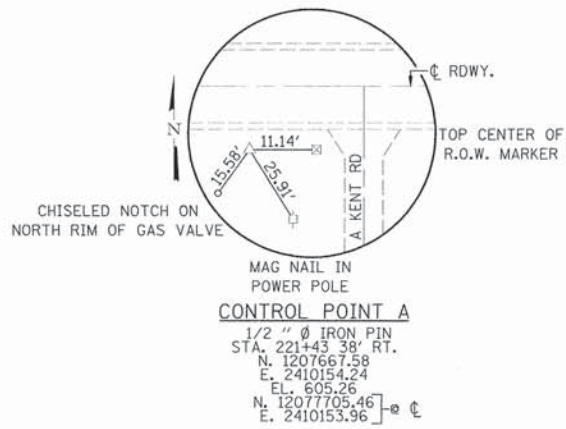
LOCATION	QUANTITY (FOOT)
STA. 221+50 RT.	8
STA. 222+00 LT.	8
STA. 225+00 LT. & RT.	16
STA. 230+00 LT. & RT.	16
STA. 235+00 LT. & RT.	16
STA. 237+50 LT. & RT.	16
STA. 239+50 LT. & RT.	16
STA. 243+50 LT. & RT.	16
STA. 248+00 LT. & RT.	16
STA. 252+00 LT. & RT.	16
STA. 253+50 LT. & RT.	16
STA. 258+00 LT. & RT.	16
STA. 261+00 LT. & RT.	16
STA. 264+50 LT. & RT.	16
STA. 269+00 LT. & RT.	16
STA. 272+00 LT. & RT.	16
STA. 272+50 LT. & RT.	16
STA. 280+00 LT. & RT.	16
TOTAL	272

SCHEDULE GRANULAR CULVERT BACKFILL

LOCATION	QUANTITY (CU.YD.)
⊕ STA. 220+80.4	67
⊕ STA. 252+50	38
⊕ STA. 256+23.7	278
⊕ STA. 263+46	89
⊕ STA. 275+66	816
TOTAL	1288

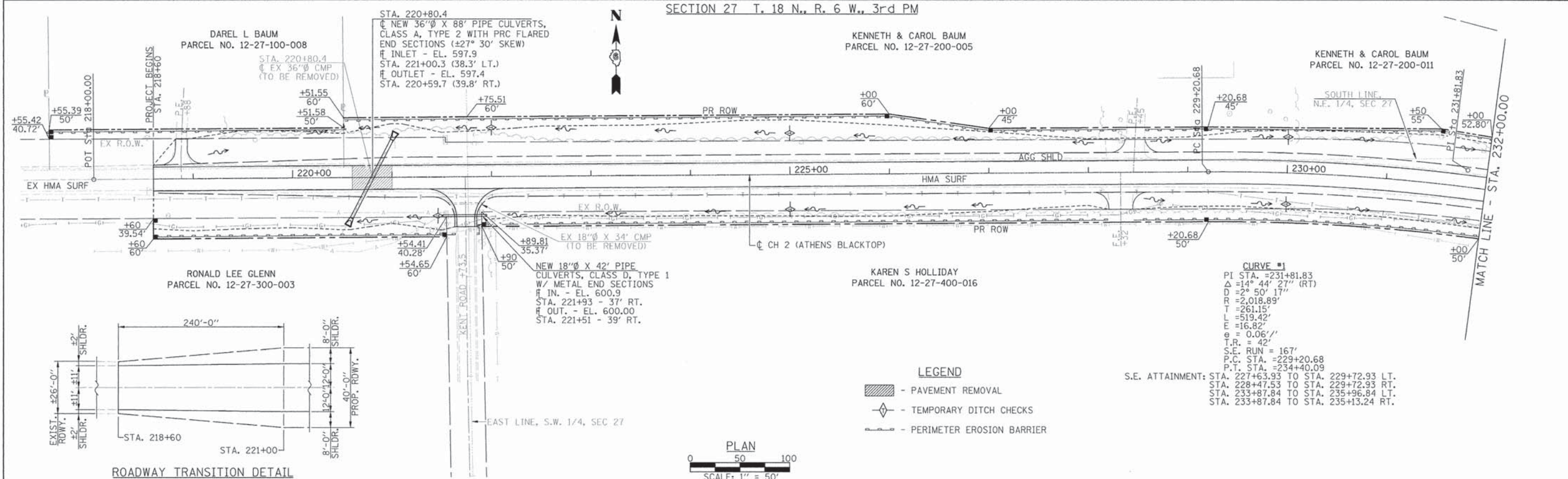
BENCHMARKS

- BM #1 - SPIKE NAIL IN POWER POLE 33' LT. STA. 221+82 EL. 601.41
- BM #2 - SPIKE NAIL IN POWER POLE 33' LT. STA. 225+10 EL. 608.12
- BM #3 - SPIKE NAIL IN POWER POLE 43' LT. STA. 231+50 EL. 609.36
- BM #4 - SPIKE NAIL IN POWER POLE 41' RT. STA. 237+24 EL. 603.05
- BM #5 - MAG NAIL IN 12" Ø C.M.P. 25' RT. STA. 243+54 EL. 608.34
- BM #6 - NORTH RIM 3/4" Ø IRON PIPE (FD) 50' RT. STA. 248+74 EL. 608.48
- BM #7 - 1/2" BOLT ON CONC. PAD 113' RT. STA. 254+40 EL. 608.32
- BM #8 - TOP S.E. CORNER OF STEEL I-BEAM GUARD POST 41' LT. STA. 261+69 EL. 612.28
- BM #9 - MAG NAIL IN WOOD HUB 33' LT. STA. 267+39 EL. 610.02
- BM #10 - TOP CENTER OF R.O.W. MARKER 40' LT. STA. 270+67 EL. 612.02
- BM #11 - MAG NAIL IN 72" Ø C.M.P. 23' RT. STA. 274+68 EL. 599.01
- BM #12 - MAG NAIL IN 18" Ø C.M.P. 27' LT. STA. 279+08 EL. 597.35
- BM #13 - SPIKE NAIL IN 18" Ø TREE 34' LT. STA. 284+74 EL. 590.46

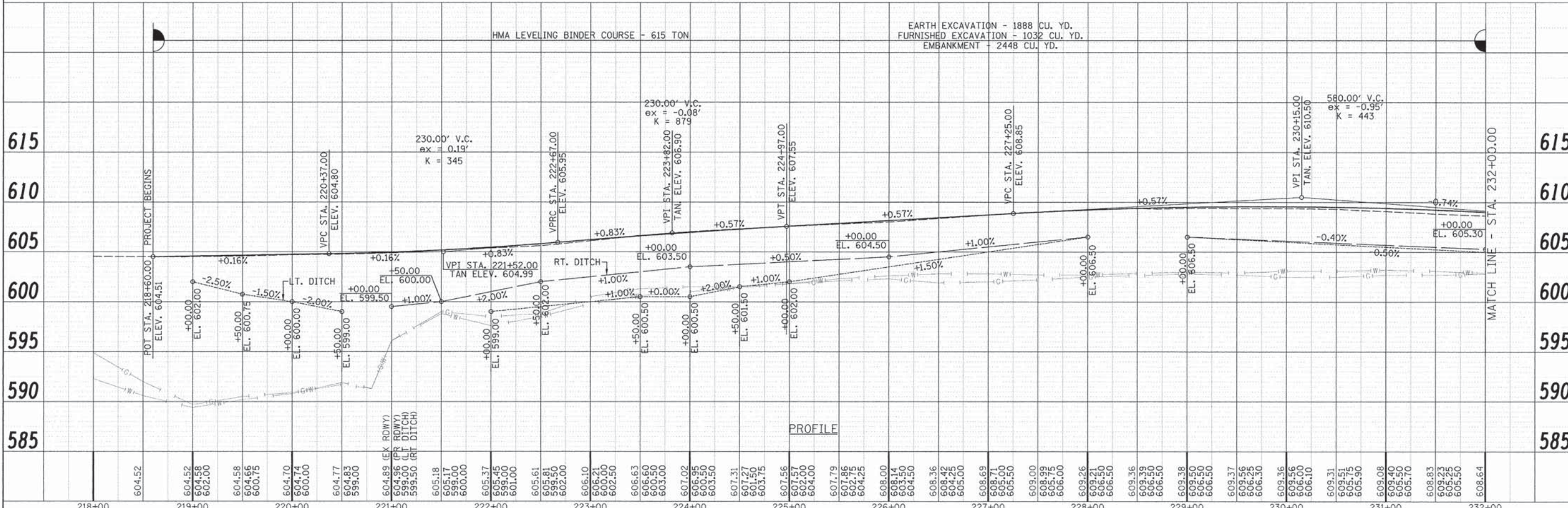


DATE: _____ BY: _____
 PLAN NO.: _____
 REVISIONS:
 1. DATE: _____ BY: _____
 2. DATE: _____ BY: _____

SECTION 27 T. 18 N., R. 6 W., 3rd PM



DATE: _____ BY: _____
 PROFILE NO.: _____
 REVISIONS:
 1. DATE: _____ BY: _____
 2. DATE: _____ BY: _____

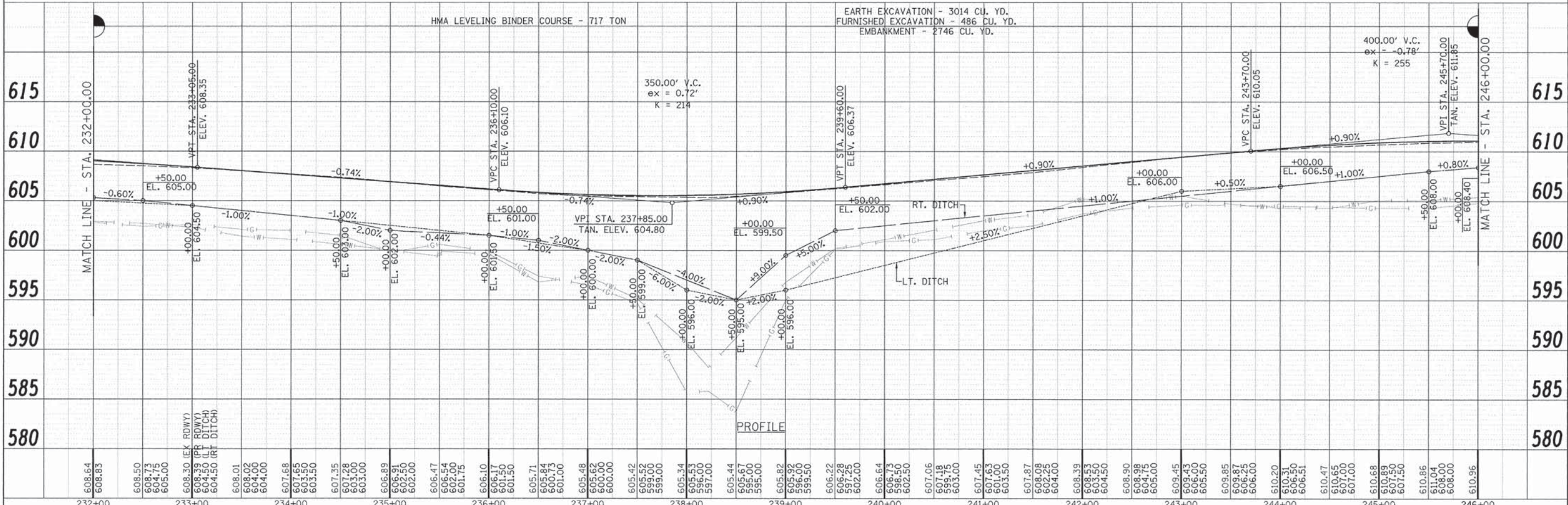
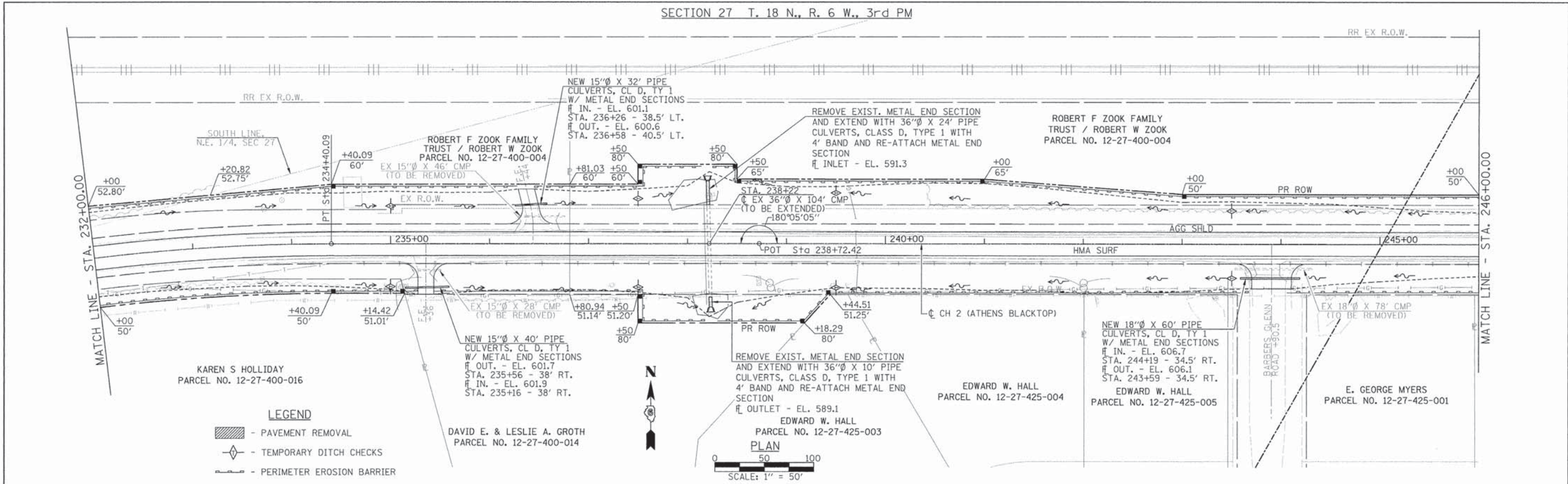


FILE NAME -	USER NAME - BUSERR	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p>PLAN & PROFILE</p> <p>SCALE: 1" = 50' SHEET NO. 1 OF 5 SHEETS STA. 218+60.00 TO STA. 232+00.00</p>	F.A.S. RTE. 574	SECTION 08-00056-04-PV	COUNTY MENARD	TOTAL SHEETS 68	SHEET NO. 14	
#FILE#	PLOT SCALE - #SCALE#	CHECKED -	REVISED -			FED. ROAD DIST. NO. _____	(ILLINOIS) FED. AID PROJECT	CONTRACT NO. 93609			
	PLOT DATE - #DATE#	CHECKED -	REVISED -								

SECTION 27 T. 18 N., R. 6 W., 3rd PM

DATE	
BY	
REVIEWED	
DESIGNED	
CHECKED	
DRAWN	
PLotted	

DATE	
BY	
REVIEWED	
DESIGNED	
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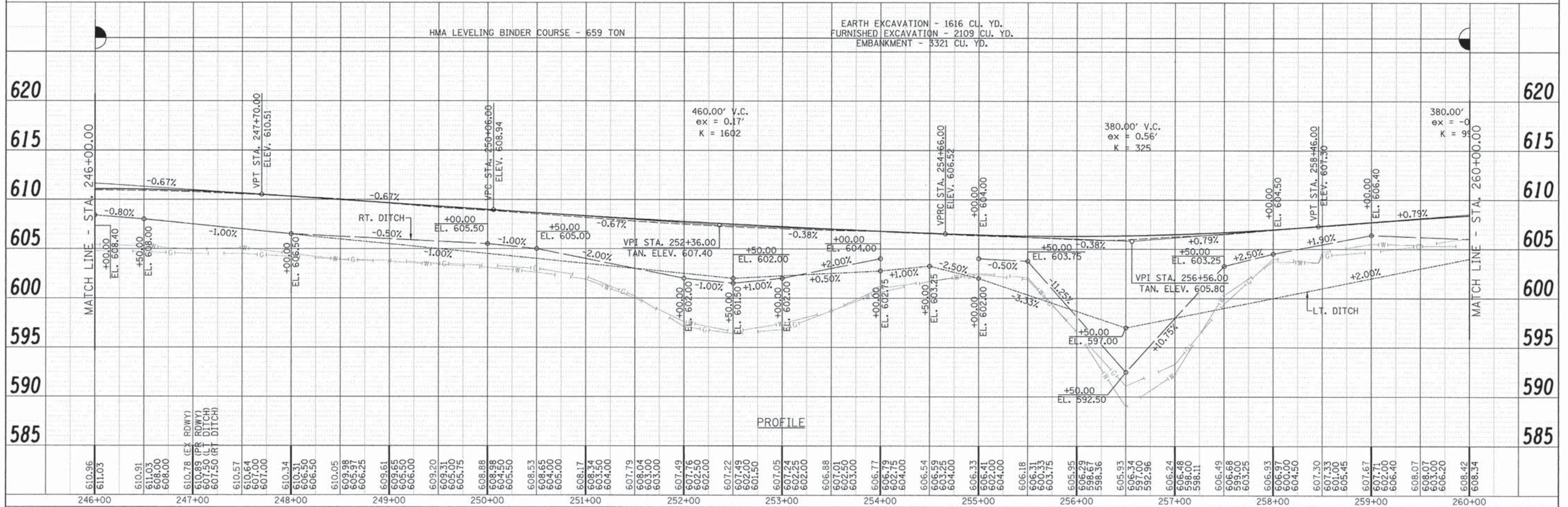
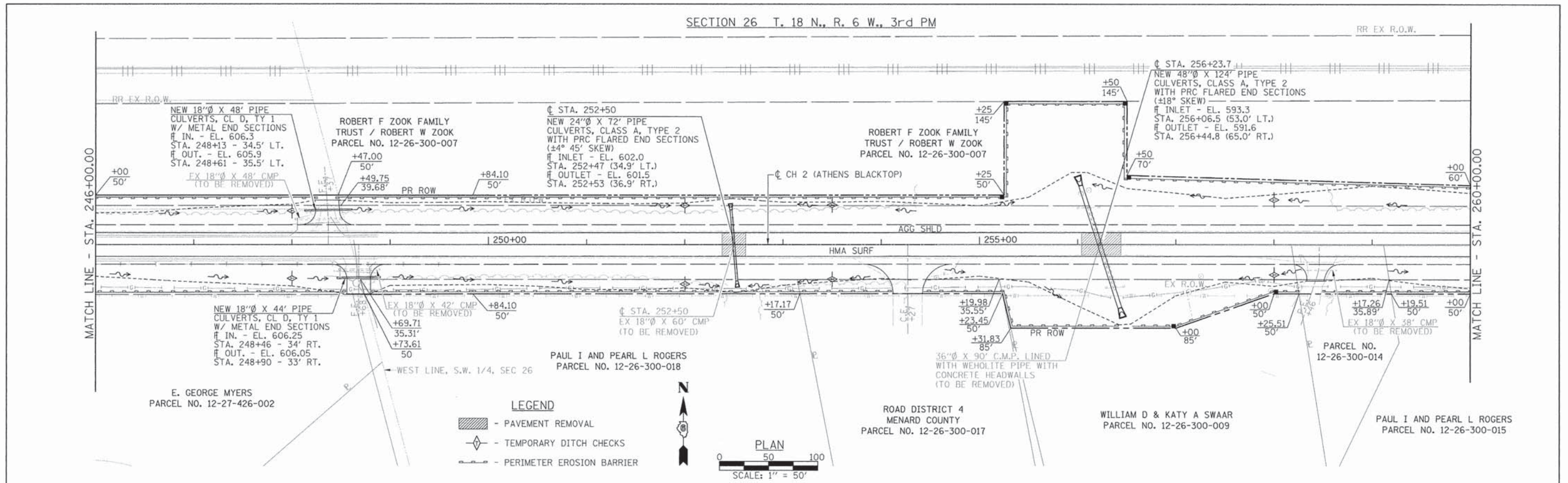


FILE NAME	USER NAME	DESIGNED	REVISED	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p>PLAN & PROFILE</p> <p>SCALE: 1" = 50' SHEET NO. 2 OF 5 SHEETS STA. 232+00.00 TO STA. 246+00.00</p>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		CHECKED	REVISED			574	08-00056-04-PV	MENARD	68	15	
PLOT SCALE	#SCALE#	DRAWN	REVISED			CONTRACT NO. 93609					
PLOT DATE	#DATE#	CHECKED	REVISED			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

SECTION 26 T. 18 N., R. 6 W., 3rd PM

PLAN	
DATE	BY
PROJECT NO.	DRAWING NO.
DATE	BY
PROJECT NO.	DRAWING NO.

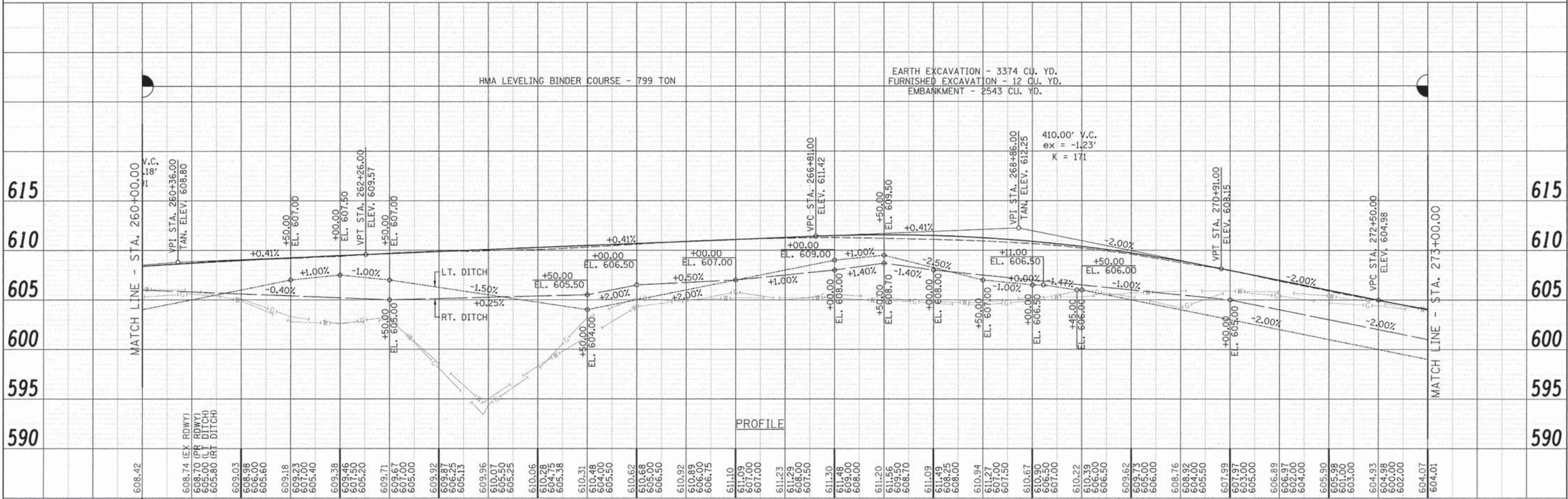
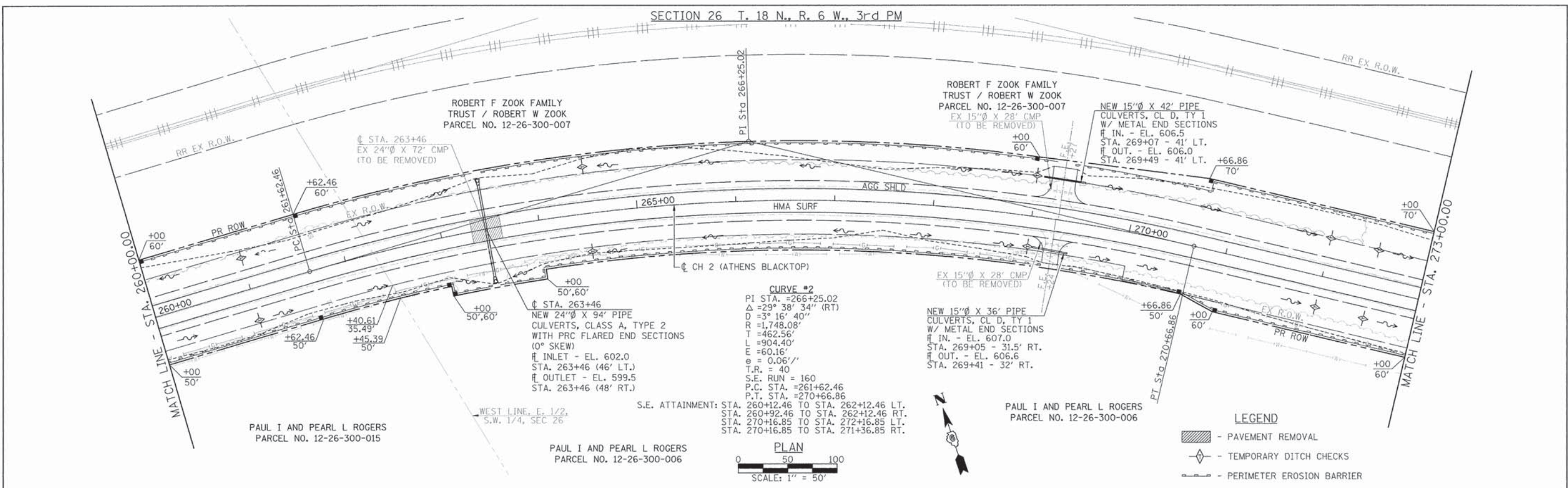
PROFILE	
DATE	BY
PROJECT NO.	DRAWING NO.
DATE	BY
PROJECT NO.	DRAWING NO.



FILE NAME	USER NAME	DESIGNED	REVISED	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DATE	BY	CHECKED	REVISED		574	08-00056-04-PV	MENARD	68	16
PROJECT NO.	DRAWING NO.	DRAWN	REVISED		PLAN & PROFILE SCALE: 1" = 50' SHEET NO. 3 OF 5 SHEETS STA. 246+00.00 TO STA. 260+00.00				

PLAN	DATE
BY	
REVIEWED	
APPROVED	
NOTED	
NO.	

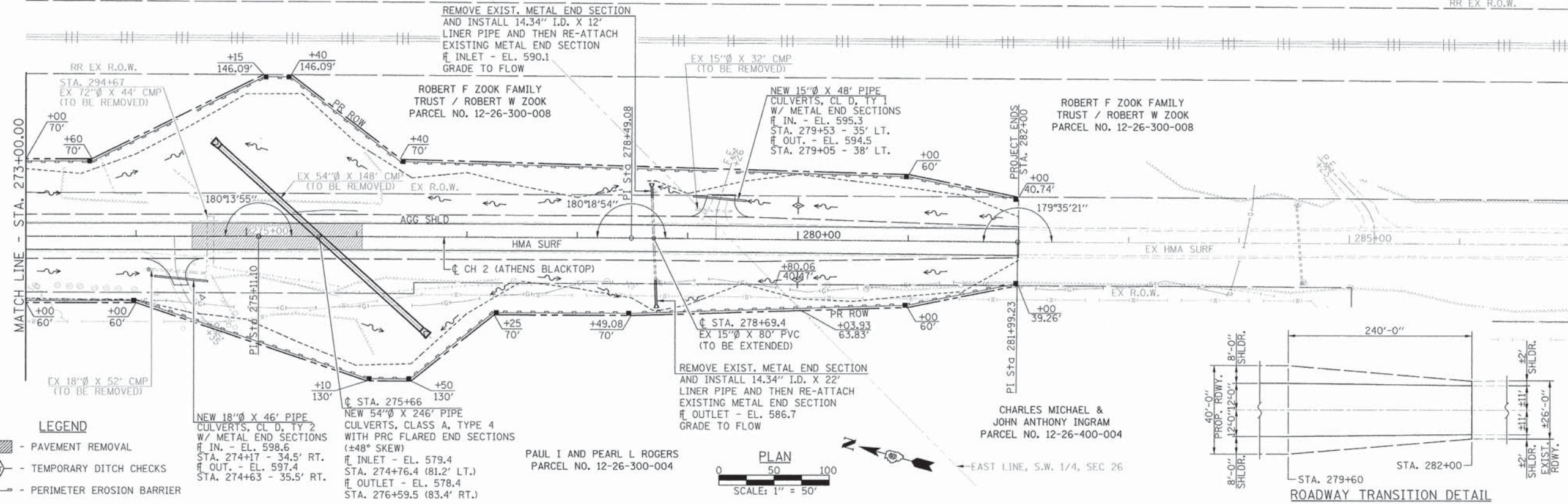
PROFILE	DATE
BY	
REVIEWED	
APPROVED	
NOTED	
NO.	



FILE NAME	USER NAME	DESIGNED	REVISED	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PLAN & PROFILE		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		CHECKED	REVISED		SCALE: 1" = 50'	SHEET NO. 4 OF 5 SHEETS	574	08-00056-04-PV	MENARD	68	17
		DRAWN	REVISED		STA. 260+00.00 TO STA. 273+00.00		CONTRACT NO. 9 3 6 0 9				
		CHECKED	REVISED				FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT				

SECTION 26 T. 18 N., R. 6 W., 3rd PM

RR EX R.O.W.

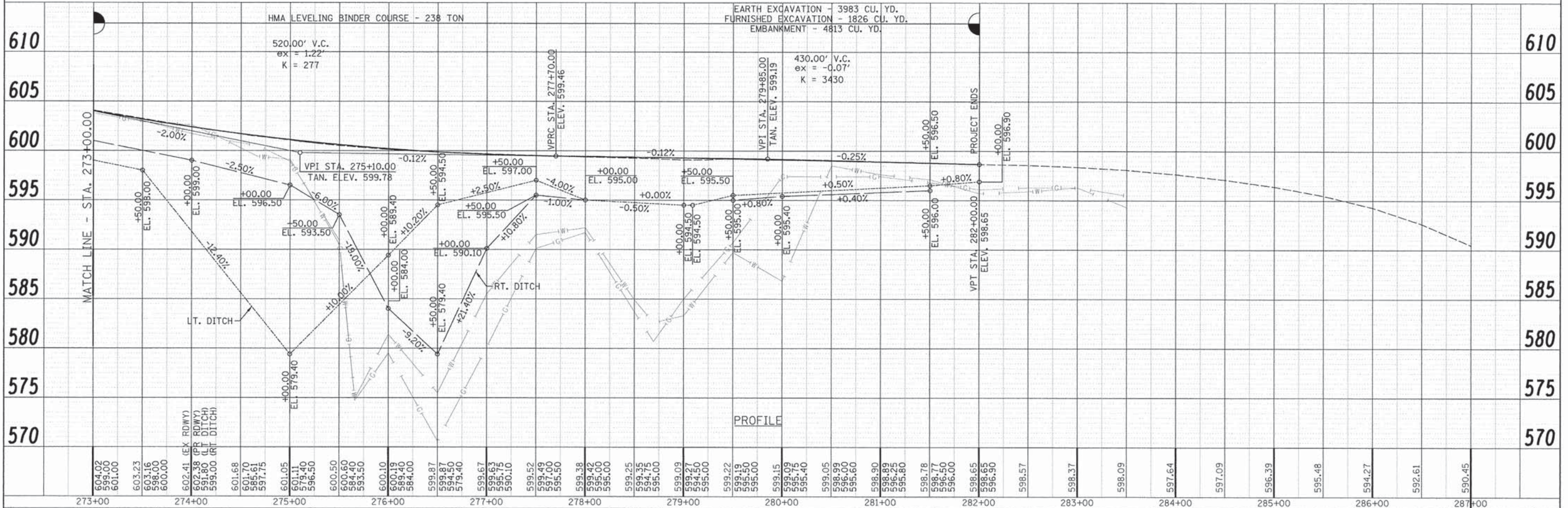
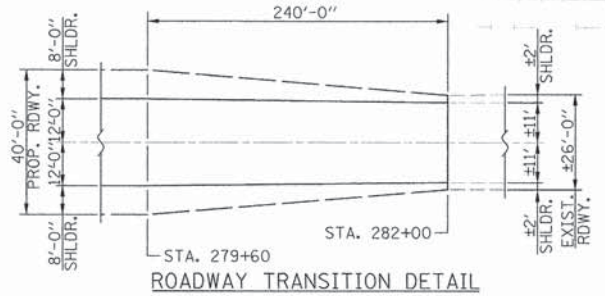


LEGEND

- PAVEMENT REMOVAL
- TEMPORARY DITCH CHECKS
- PERIMETER EROSION BARRIER

NEW 18" Ø X 46' PIPE CULVERTS, CL D, TY 2 W/ METAL END SECTIONS
 # IN. - EL. 598.6
 STA. 274+17 - 34.5' RT.
 # OUT. - EL. 597.4
 STA. 274+63 - 35.5' RT.

NEW 54" Ø X 246' PIPE CULVERTS, CLASS A, TYPE 4 WITH PRC FLARED END SECTIONS (±48° SKEW)
 # INLET - EL. 579.4
 STA. 274+76.4 (81.2' LT.)
 # OUTLET - EL. 578.4
 STA. 276+59.5 (83.4' RT.)



604.02	599.00	601.00	603.23	603.16	600.00	602.41	602.38	601.68	601.70	597.50	601.05	601.11	600.50	600.60	593.50	600.10	600.19	589.40	584.00	599.87	594.50	579.40	599.67	599.49	599.35	594.75	595.00	599.09	599.27	594.50	595.00	599.22	599.19	595.50	599.15	599.09	599.15	595.40	599.05	598.99	596.00	595.60	598.90	598.92	595.60	598.78	598.77	596.00	596.00	598.65	598.65	596.30	598.57	598.37	598.09	597.64	597.09	596.39	595.48	594.27	592.61	590.45
273+00	274+00	275+00	276+00	277+00	278+00	279+00	280+00	281+00	282+00	283+00	284+00	285+00	286+00	287+00																																																

Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

PLAN & PROFILE

SCALE: 1" = 50' SHEET NO. 5 OF 5 SHEETS STA. 273+00.00 TO STA. 282+00.00

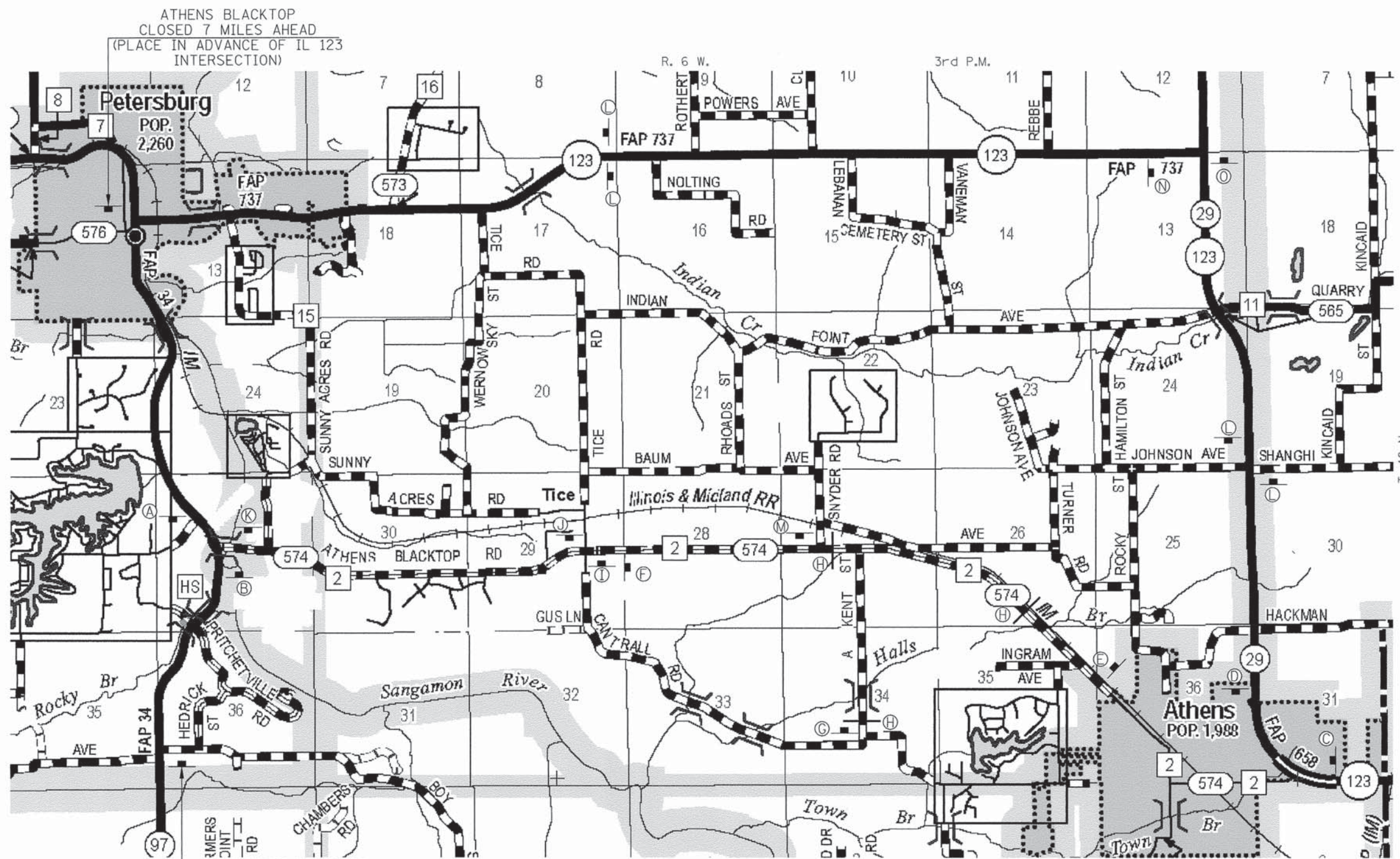
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	18
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLAN

DATE	
BY	
DESIGNED	
CHECKED	
DRAWN	
DATE	

PROFILE

DATE	
BY	
DESIGNED	
CHECKED	
DRAWN	
DATE	



ATHENS BLACKTOP
CLOSED 7 MILES AHEAD
(PLACE IN ADVANCE OF IL 123
INTERSECTION)

ATHENS BLACKTOP
CLOSED 7 MILES AHEAD
(PLACE IN ADVANCE OF IL 123
INTERSECTION)

SIGN & BARRICADE LOCATION PLAN

** CHANGEABLE MESSAGE SIGNS (2 EACH)
POSITIONED ALONG RTE 29
AS DIRECTED BY THE ENGINEER.

- LEGEND**
- Sign A - ROAD CLOSED 5 MILES AHEAD WITH W1-6R
 - Sign B - ROAD CLOSED 5 MILES AHEAD WITH W1-6L
 - Sign C - "ATHENS BLACKTOP CLOSED 2 MILES AHEAD" R11-3A-6030 WITH M4-9L-3024
 - Sign D - "ATHENS BLACKTOP CLOSED 2 MILES AHEAD" R11-3A-6030 WITH M4-9R-3024
 - Sign E - "ATHENS BLACKTOP CLOSED 1 MILE AHEAD"
 - Sign F - "ATHENS BLACKTOP CLOSED 1.5 MILES AHEAD"
 - Sign G - ROAD CLOSED 1.5 MILES AHEAD WITH M4-9R-3024
 - Sign H - BLR STANDARD 21
 - Sign I - ROAD CLOSED 2 MILES AHEAD WITH W1-6R
 - Sign J - ROAD CLOSED 2 MILES AHEAD WITH W1-6L
 - Sign K - ROAD CLOSED 3.5 MILES AHEAD WITH W1-6L
 - Sign L - ATHENS BLACKTOP WITH W1-6
 - Sign M - ROAD CLOSED WITH W1-6L
 - Sign N - ATHENS BLACKTOP WITH DETOUR M4-9R
 - Sign O - ATHENS BLACKTOP WITH DETOUR M4-9L

ROAD CLOSED
XX MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3A
BLACK ON WHITE

ROAD CLOSED
TO
THRU TRAFFIC

R11-3A
BLACK ON WHITE

ROAD
CLOSED

R11-2
BLACK ON WHITE

ATHENS BLACKTOP
BLACK ON FLUORESCENT ORANGE
WITH 6" LETTERS

DETOUR
←

M4-9L
FLUORESCENT ORANGE

DETOUR
→

M4-9R
FLUORESCENT ORANGE

DETOUR
AHEAD

BLACK ON FLUORESCENT ORANGE

← DETOUR

M4-10
FLUORESCENT ORANGE

←

W1-6
FLUORESCENT ORANGE

FILE NAME	USER NAME	DESIGNED	REVISED
DATE	DATE	DATE	DATE

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

SIGN & BARRICADE LOCATION PLAN

SCALE: NONE SHEET NO. 16 OF 68 SHEETS STA. 218+60.00 TO STA. 282+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	19

CONTRACT NO. 93609
FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

SUMMIT - STA. 218 + 60 LT.

PRIVATE ENTRANCE

605 **218 + 88.00** 605

600 EST. AGGREGATE SHOULDERS, TYPE A - 10 TON 600

PROJECT BEGINS - STA. 218 + 60

605 **218 + 50.00** 605

600 600

595 595

EX 8" GAS MAIN
EX 6" PVC WATER MAIN

605 **218 + 00.00** 605

600 600

EX 8" GAS MAIN
EX 6" PVC WATER MAIN

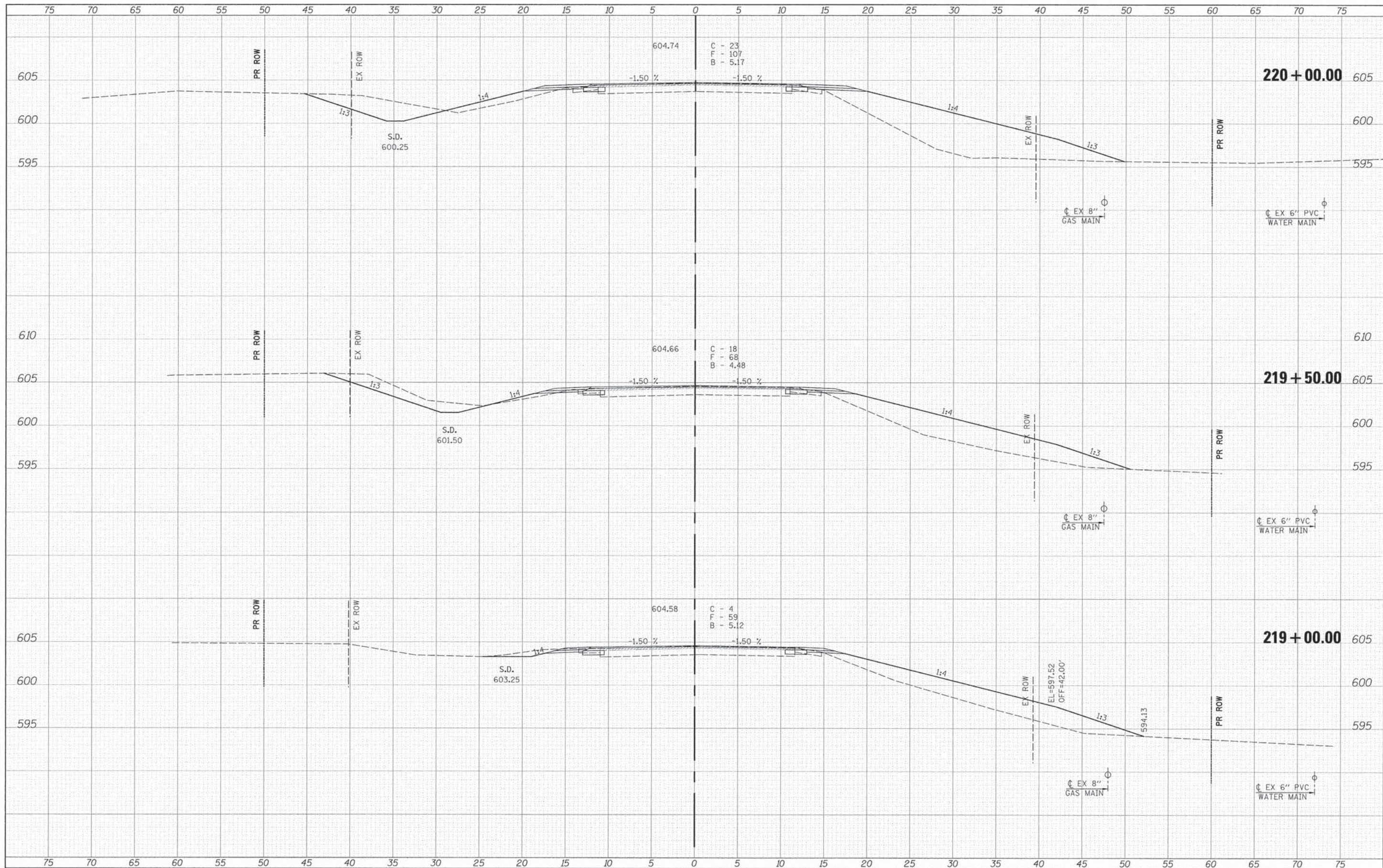
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

DATE _____
 BY _____
 ORIGINAL SURVEY _____
 SURVEY PLOTTED _____
 SURVEY NOTE BOOK _____
 SURVEY AREA _____
 SURVEY AREA CHECKED _____

DATE _____
 BY _____
 ORIGINAL SURVEY _____
 SURVEY PLOTTED _____
 SURVEY NOTE BOOK _____
 SURVEY AREA _____
 SURVEY AREA CHECKED _____



FILE NAME: #FILE#
 USER NAME: #USER#
 PLOT SCALE: #SCALE#
 PLOT DATE: #DATE#

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
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 DATE -



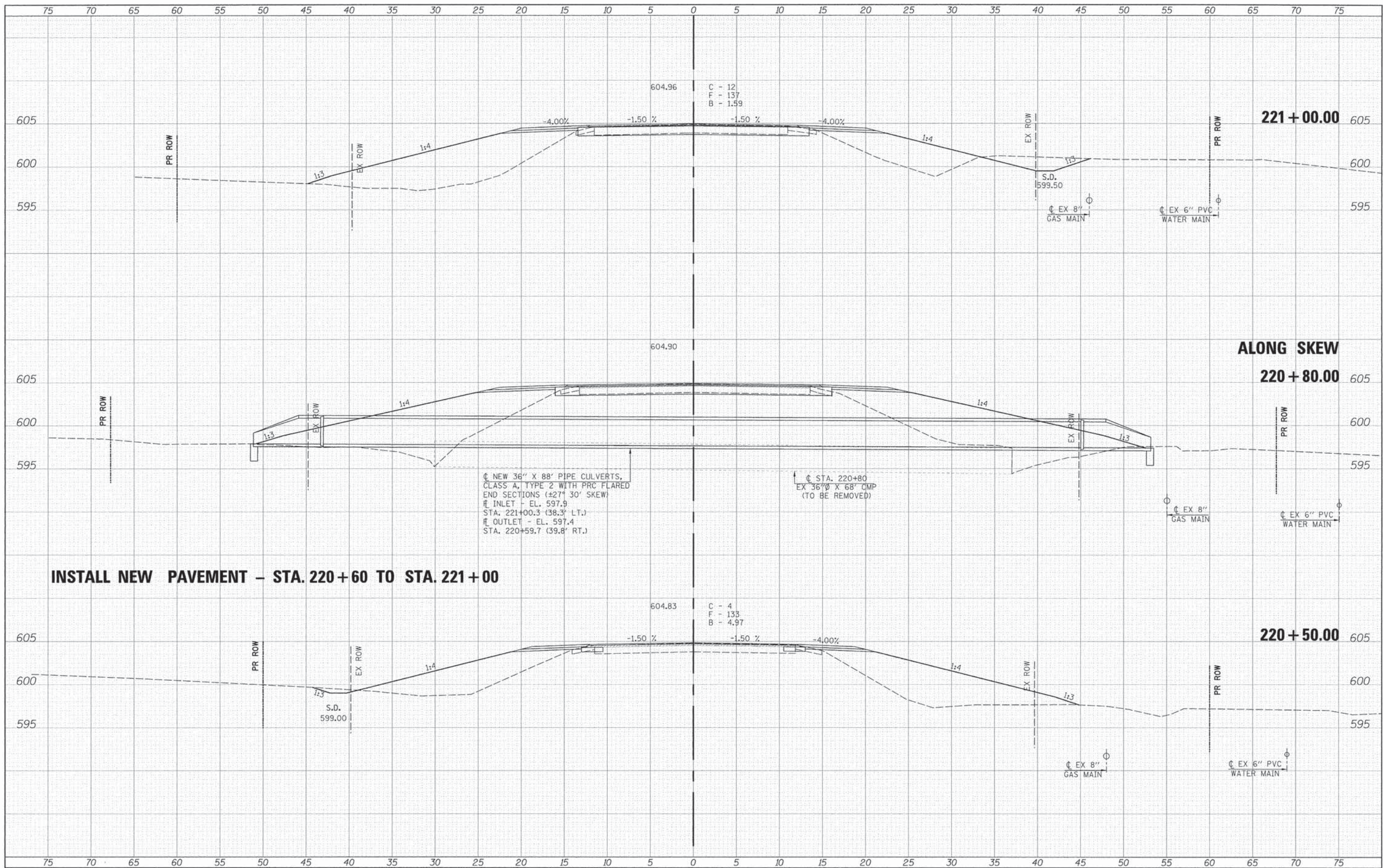
Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 2 OF 49 SHEETS
 STA. 219+00.00 TO STA. 220+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	21
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 93609	

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

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



INSTALL NEW PAVEMENT - STA. 220+60 TO STA. 221+00

NEW 36" X 88" PIPE CULVERTS,
 CLASS A, TYPE 2 WITH PRC FLARED
 END SECTIONS (±27° 30' SKEW)
 INLET - EL. 597.9
 STA. 221+00.3 (38.3' LT.)
 OUTLET - EL. 597.4
 STA. 220+59.7 (39.8' RT.)

STA. 220+80
 EX 36" X 68" CMP
 (TO BE REMOVED)

FILE NAME =
 #FILE#

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = #DATE#

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
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Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL.
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 No. 184-001907

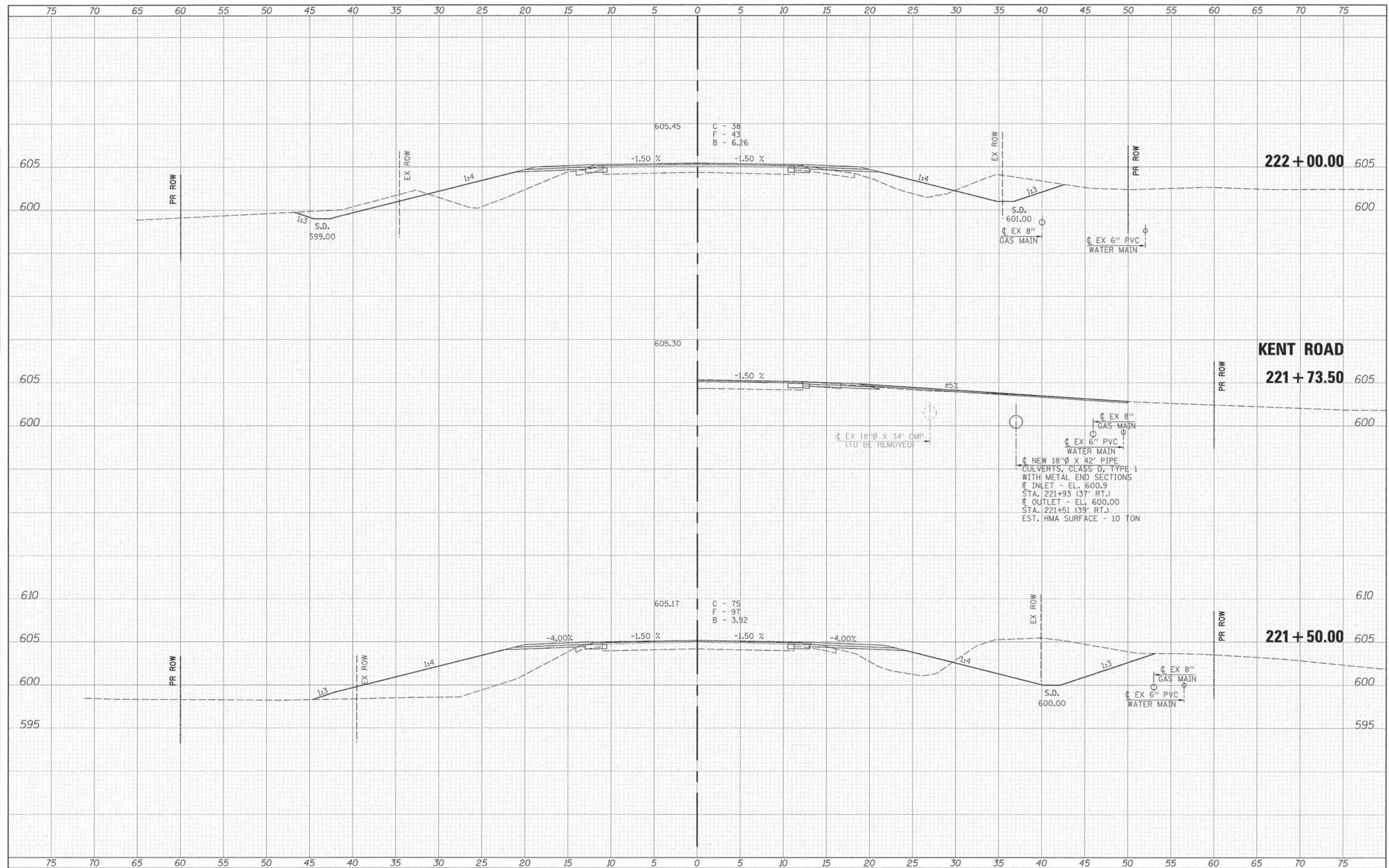
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 3 OF 49 SHEETS STA. 220+50.00 TO STA. 221+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	22
CONTRACT NO. 93609				
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT				

DATE _____ BY _____
 SURVEYED _____
 CHECKED _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS _____
 AREAS CHECKED _____

DATE _____ BY _____
 SURVEYED _____
 CHECKED _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS _____
 AREAS CHECKED _____



FILE NAME : _____
 USER NAME : #USER# _____
 PLOT SCALE : #SCALE# _____
 PLOT DATE : #DATE# _____

DESIGNED - _____
 DRAWN - _____
 CHECKED - _____
 DATE - _____

REVISED - _____
 REVISED - _____
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 REVISED - _____

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 No. 184-001907



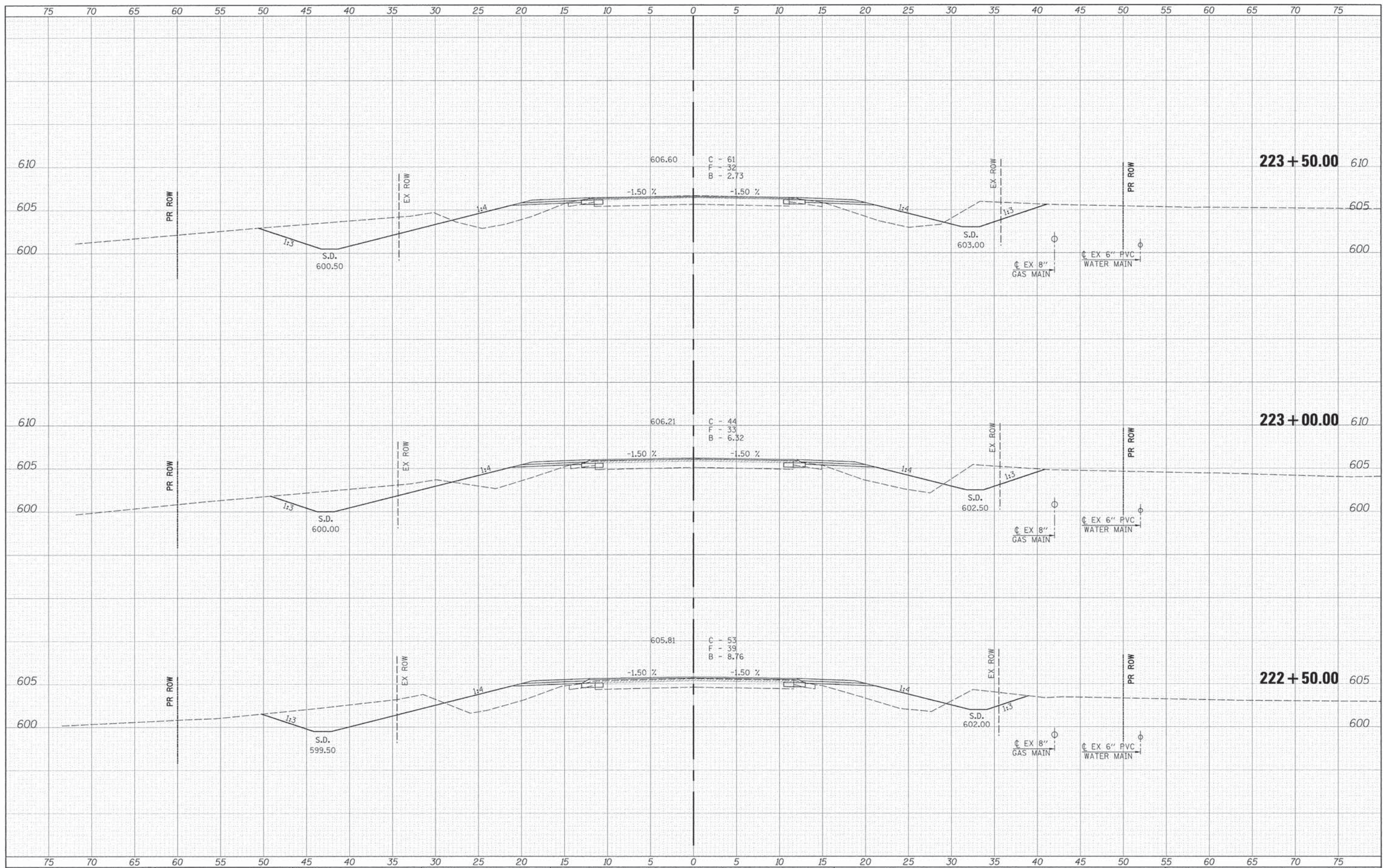
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 4 OF 49 SHEETS STA. 221+50.00 TO STA. 222+00.00

F.A.S. RTE. 574	SECTION 08-00056-04-PV	COUNTY MENARD	TOTAL SHEETS 68	SHEET NO. 23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 93609		

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME: #FILE#

USER NAME: #USER#
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISIED -
 REVISIED -
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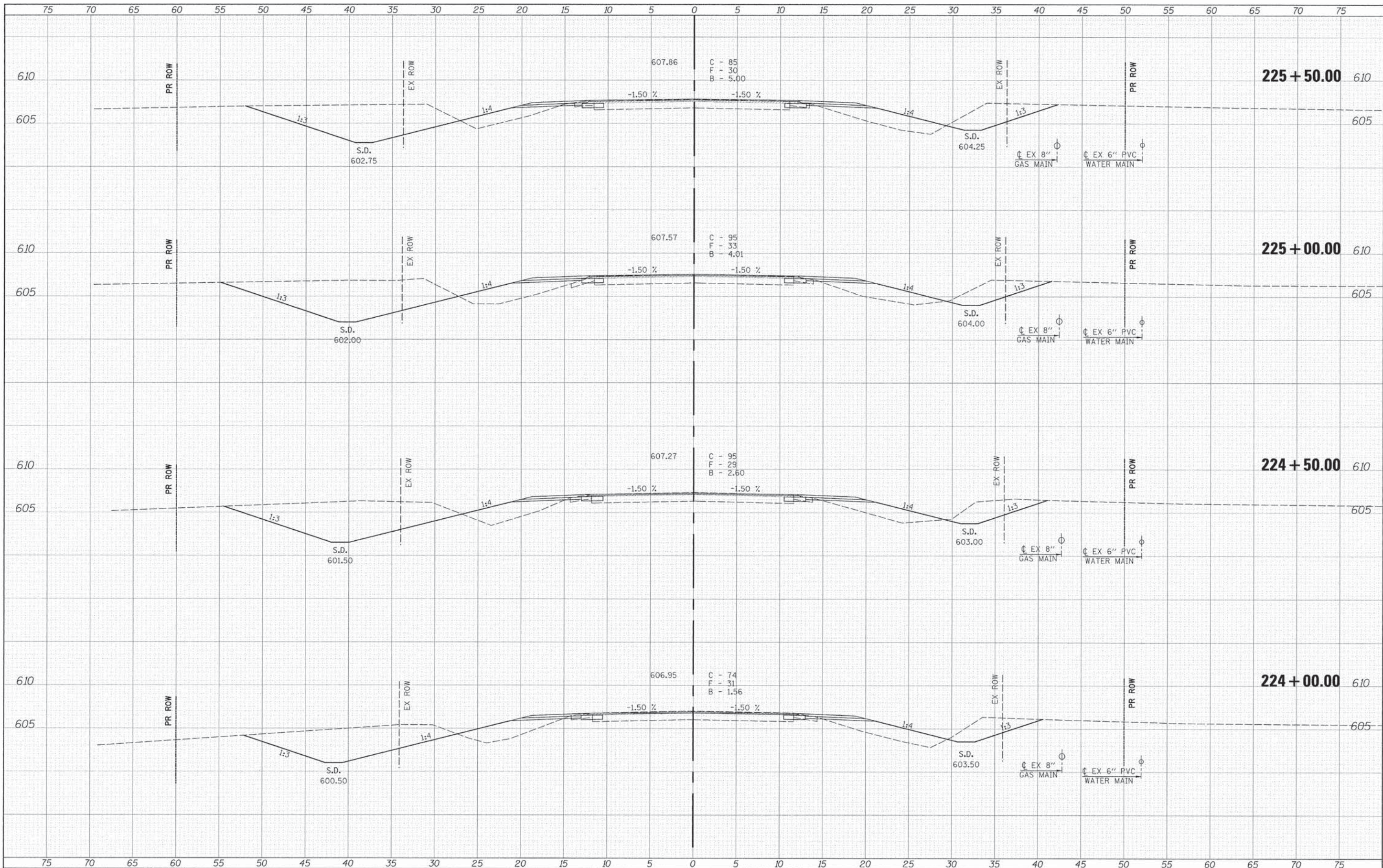
DESIGNED -
 DRAWN -
 CHECKED -
 DATE -



Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL.
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 5 OF 49 SHEETS
 STA. 222+50.00 TO STA. 223+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	24
CONTRACT NO. 93609				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FINAL SURVEY	DATE
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

ORIGINAL SURVEY	DATE
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

FILE NAME = #FILE#

USER NAME = #USER#

PLOT SCALE = #SCALE#

PLOT DATE = #DATE#

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -



Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL.
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

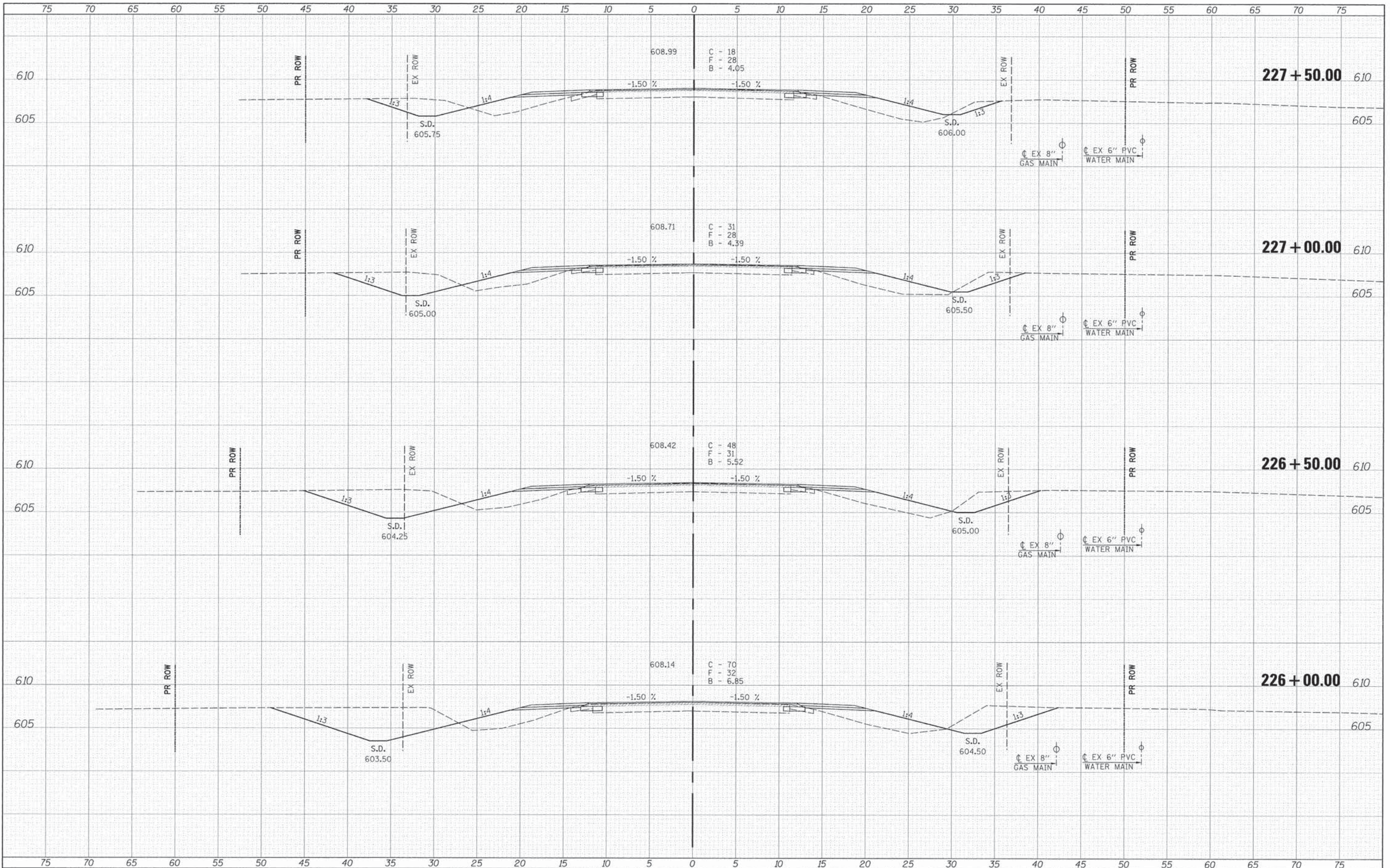
CROSS SECTIONS

SCALE: 1" = 5'

SHEET NO. 6 OF 49 SHEETS

STA. 224+00.00 TO STA. 225+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	25
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 93609	



DATE _____ BY _____
 REVISIONS _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 AREAS CHECKED _____

DATE _____ BY _____
 REVISIONS _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 AREAS CHECKED _____

FILE NAME = _____
 #FILE# _____

USER NAME = #USER# _____
 PLOT SCALE = #SCALE# _____
 PLOT DATE = #DATE# _____

DESIGNED - _____
 DRAWN - _____
 CHECKED - _____
 DATE - _____

REVISED - _____
 REVISED - _____
 REVISED - _____
 REVISED - _____

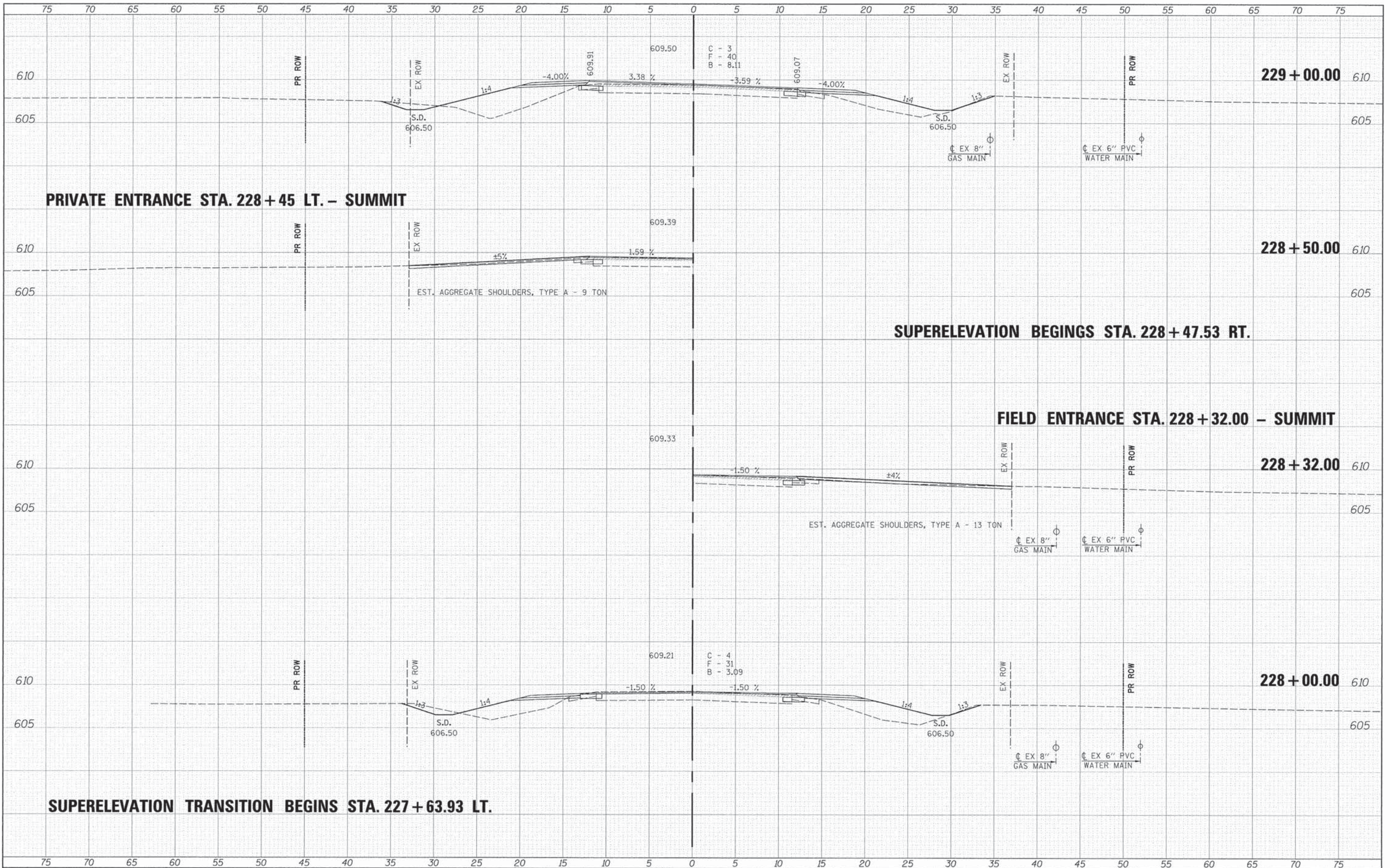


Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL.
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5' SHEET NO. 7 OF 49 SHEETS STA. 226+00.00 TO STA. 227+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	26

CONTRACT NO. 93609
 FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT



FINAL	DATE
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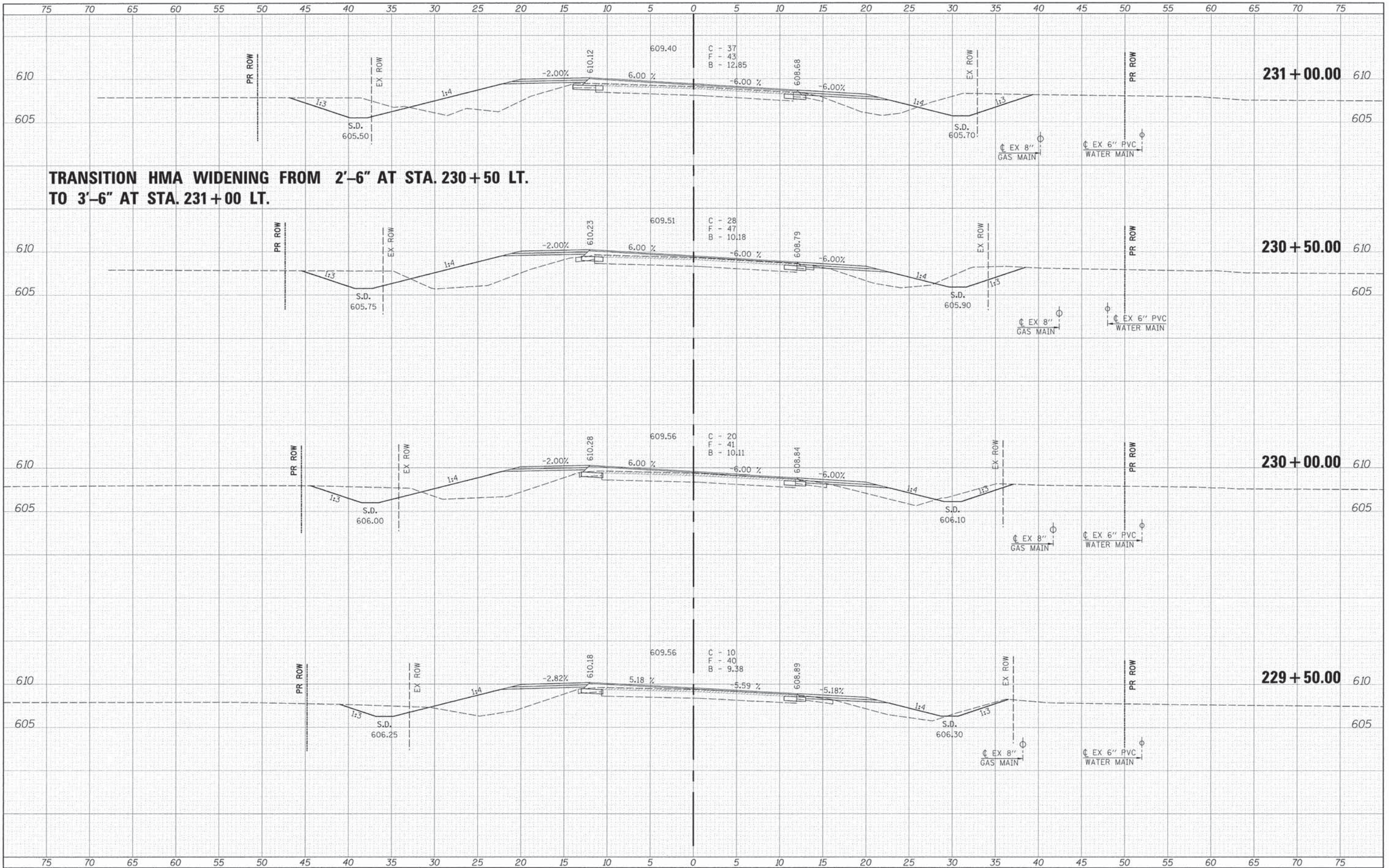
Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL.
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS		
SCALE: 1" = 5'	SHEET NO. 8 OF 49 SHEETS	STA. 228+00.00 TO STA. 229+00.00


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	27
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 93609	

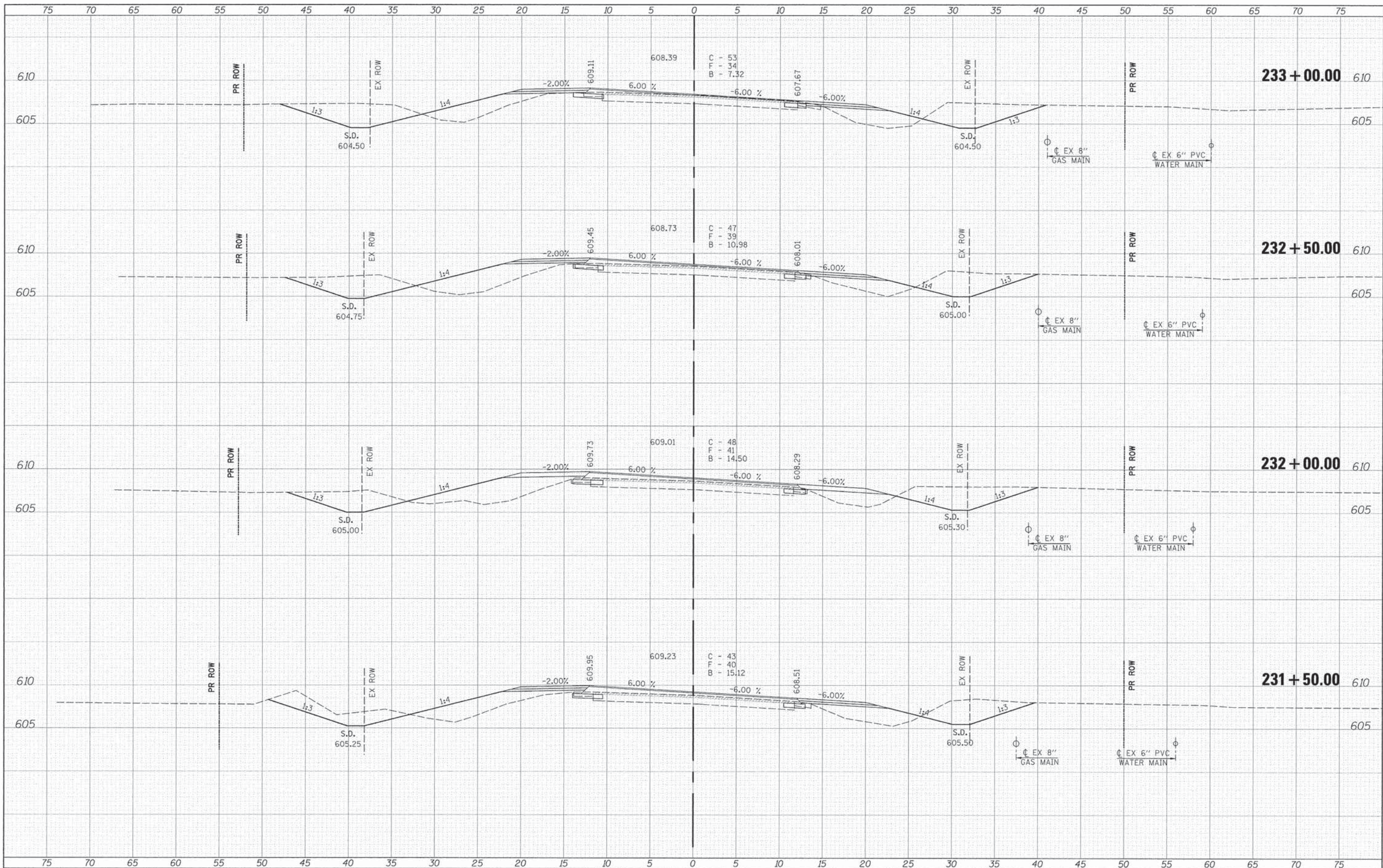
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TRANSITION HMA WIDENING FROM 2'-6" AT STA. 230+50 LT. TO 3'-6" AT STA. 231+00 LT.

FILE NAME: #FILE#	USER NAME: #USER#	DESIGNED: -	REVISED: -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS		F.A.S. RTE. 574	SECTION 08-00056-04-PV	COUNTY MENARD	TOTAL SHEETS 68	SHEET NO. 28	
PLOT SCALE: #SCALE#	CHECKED: -	REVISED: -	REVISED: -		SCALE: 1" = 5'	SHEET NO. 9 OF 49 SHEETS	STA. 229+50.00 TO STA. 231+00.00	CONTRACT NO. 93609				
PLOT DATE: #DATE#	DATE: -	REVISED: -	REVISED: -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



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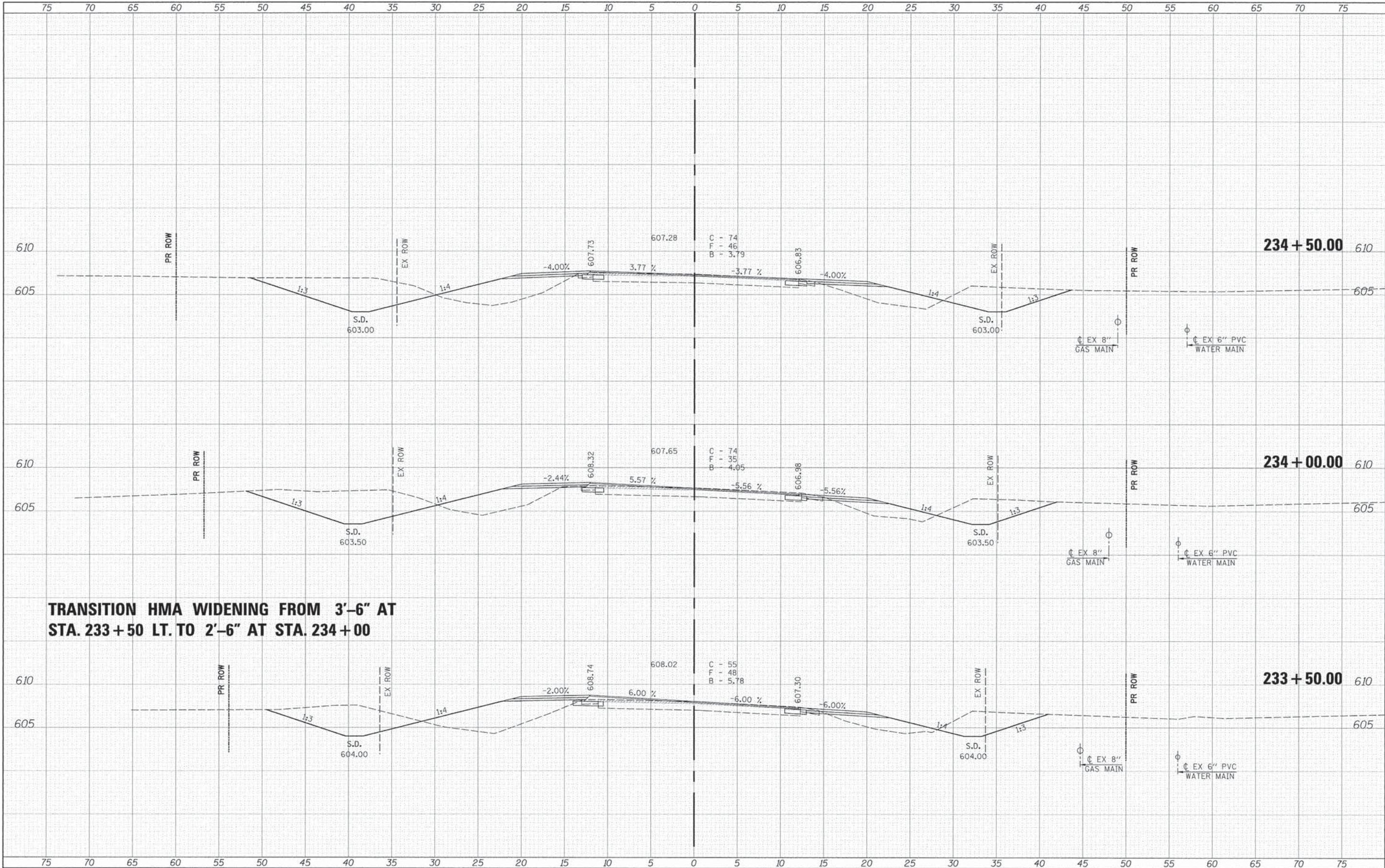
Allen Henderson & Associates, Inc.
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 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 10 OF 49 SHEETS
 STA. 231+50.00 TO STA. 233+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	29
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 93609	

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TRANSITION HMA WIDENING FROM 3'-6" AT STA. 233+50 LT. TO 2'-6" AT STA. 234+00

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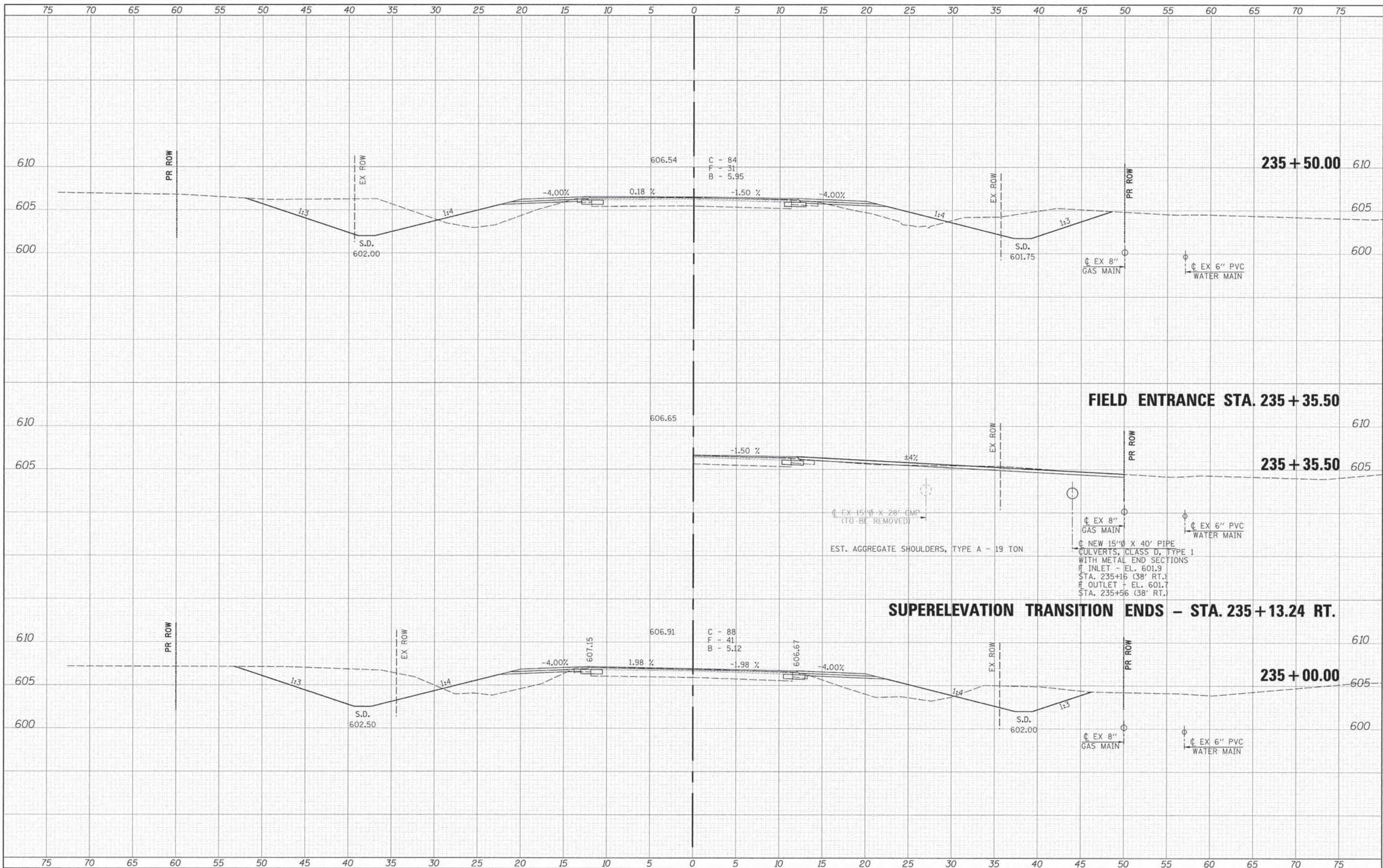
Allen Henderson & Associates, Inc.
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 No. 184-001907

CROSS SECTIONS		
SCALE: 1" = 5'	SHEET NO. 11 OF 49 SHEETS	STA. 233+50.00 TO STA. 234+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	30
CONTRACT NO. 93609				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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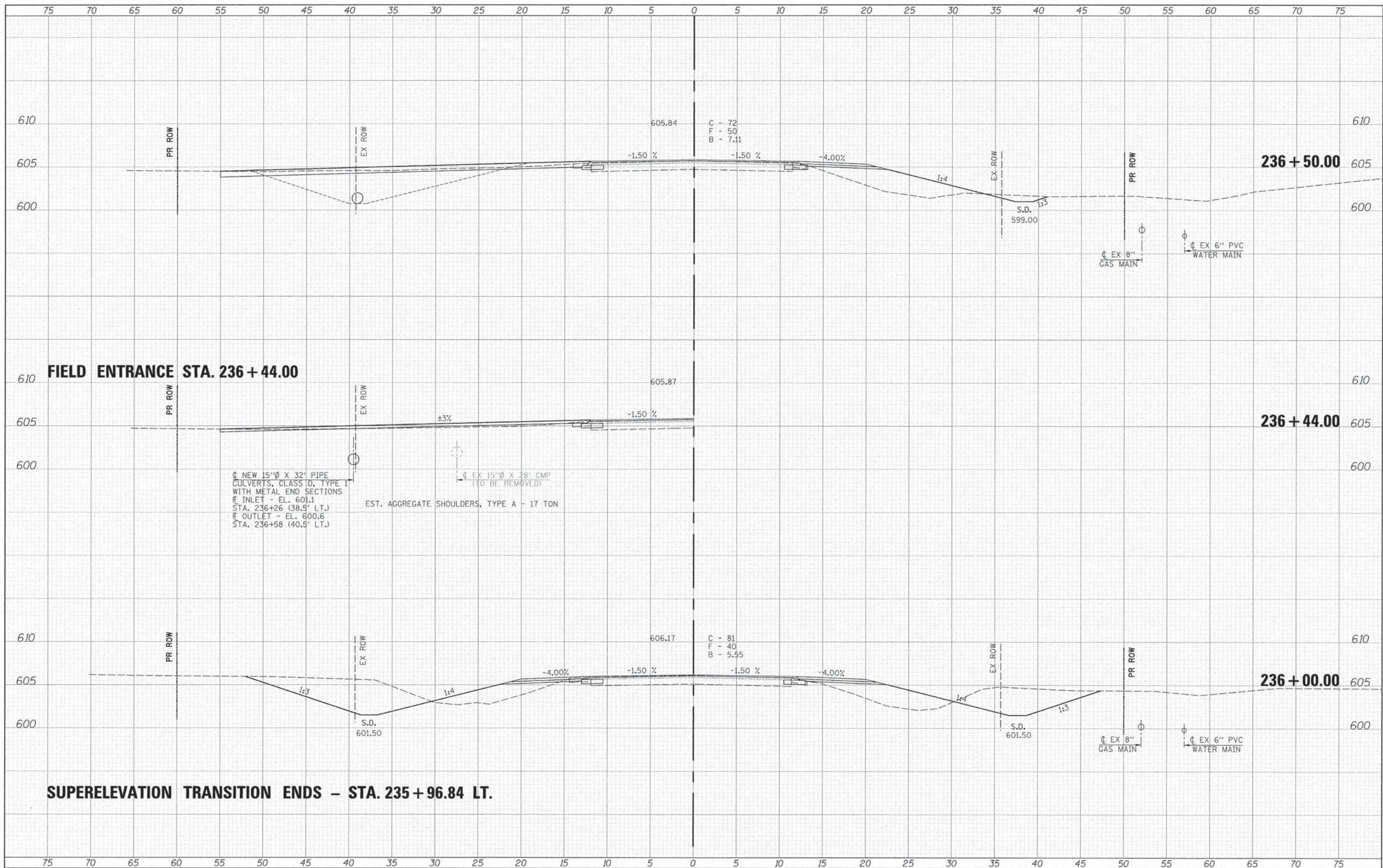
Allen Henderson & Associates, Inc.
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No. 184-001907

CROSS SECTIONS
SCALE: 1" = 5'
SHEET NO. 12 OF 49 SHEETS
STA. 235+00.00 TO STA. 235+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	31
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 93609	

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FIELD ENTRANCE STA. 236 + 44.00

SUPERELEVATION TRANSITION ENDS - STA. 235 + 96.84 LT.

NEW 15"Ø X 32' PIPE
 CULVERTS, CLASS D, TYPE I
 WITH METAL END SECTIONS
 INLET - EL. 601.1
 STA. 236+26 (38.5' LT.)
 OUTLET - EL. 600.6
 STA. 236+58 (40.5' LT.)

EX 15"Ø X 28' CMP
 (TO BE REMOVED)

EST. AGGREGATE SHOULDERS, TYPE A - 17 TON

Allen Henderson & Associates, Inc.
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 No. 184-001907

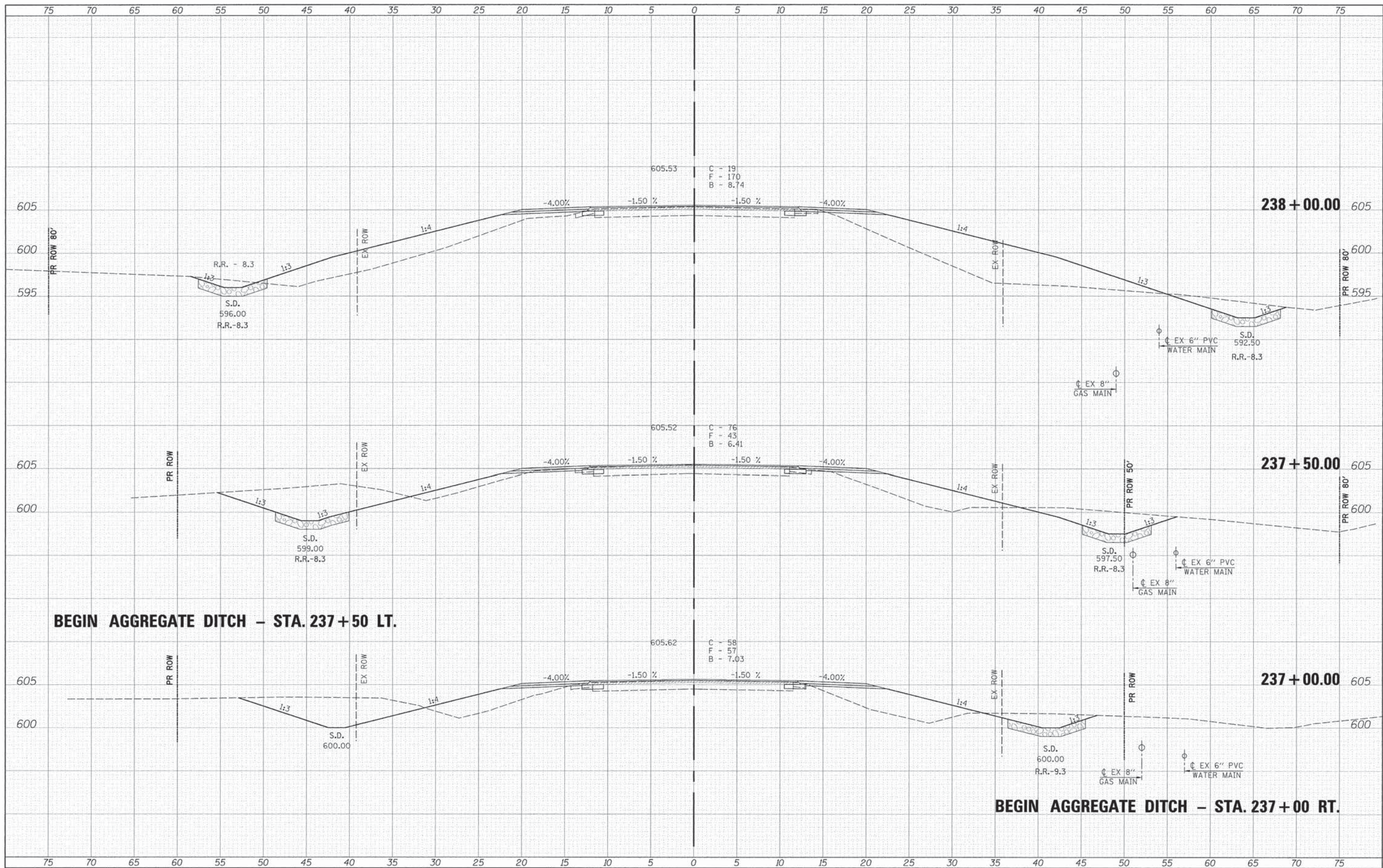
CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 13 OF 49 SHEETS
 STA. 236+00.00 TO STA. 236+50.00

F.A.S. RTE. 574	SECTION 08-00056-04-PV	COUNTY MENARD	TOTAL SHEETS 68	SHEET NO. 32
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 93609	

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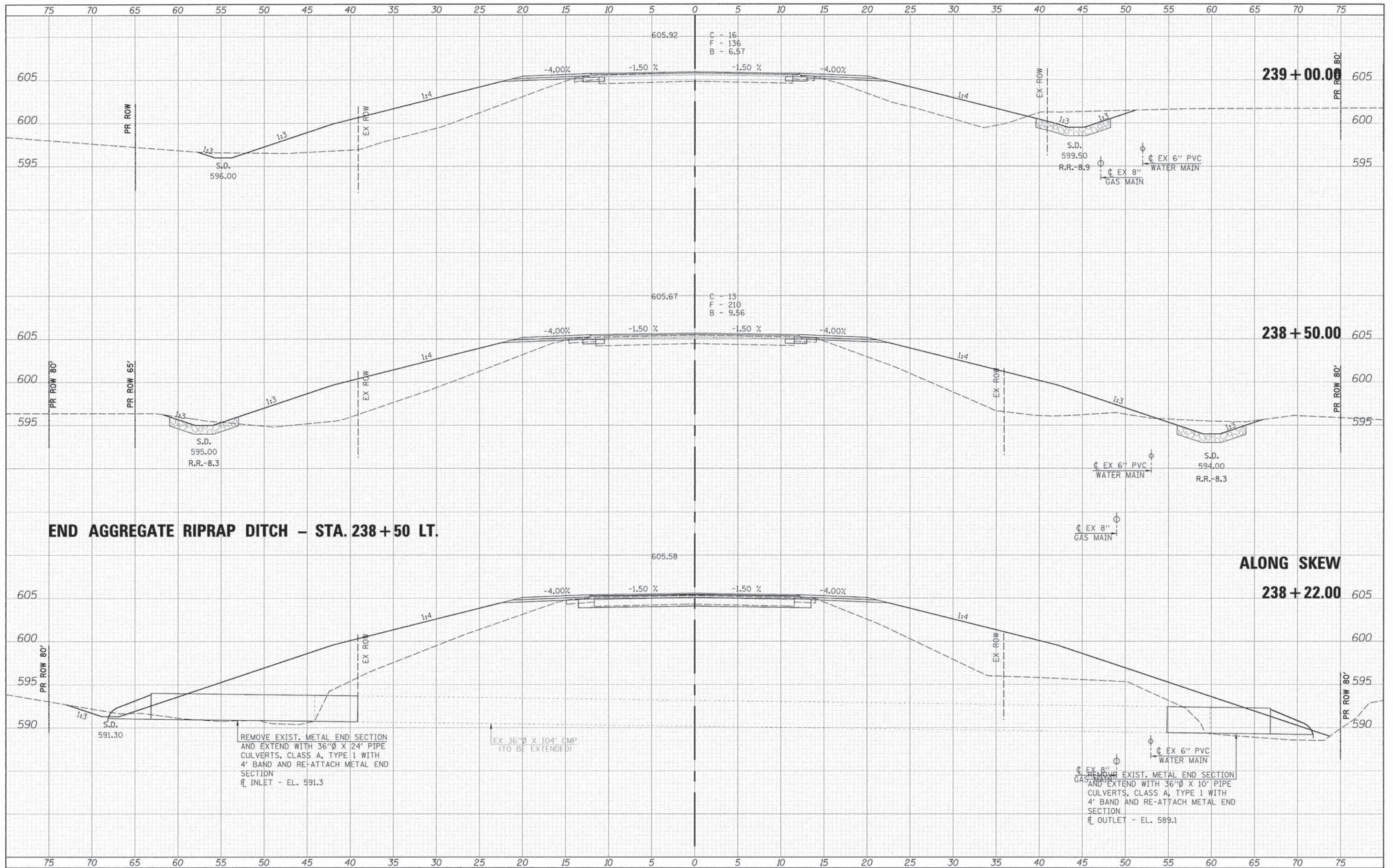
Allen Henderson & Associates, Inc.
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 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 14 OF 49 SHEETS
 STA. 237+00.00 TO STA. 238+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	33
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 3609	

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END AGGREGATE RIPRAP DITCH - STA. 238+50 LT.

ALONG SKEW

REMOVE EXIST. METAL END SECTION AND EXTEND WITH 36"Ø X 24' PIPE CULVERTS, CLASS A, TYPE 1 WITH 4' BAND AND RE-ATTACH METAL END SECTION
 INLET - EL. 591.3

EX 36"Ø X 104' CMP (TO BE EXTENDED)

REMOVE EXIST. METAL END SECTION AND EXTEND WITH 36"Ø X 10' PIPE CULVERTS, CLASS A, TYPE 1 WITH 4' BAND AND RE-ATTACH METAL END SECTION
 OUTLET - EL. 589.1

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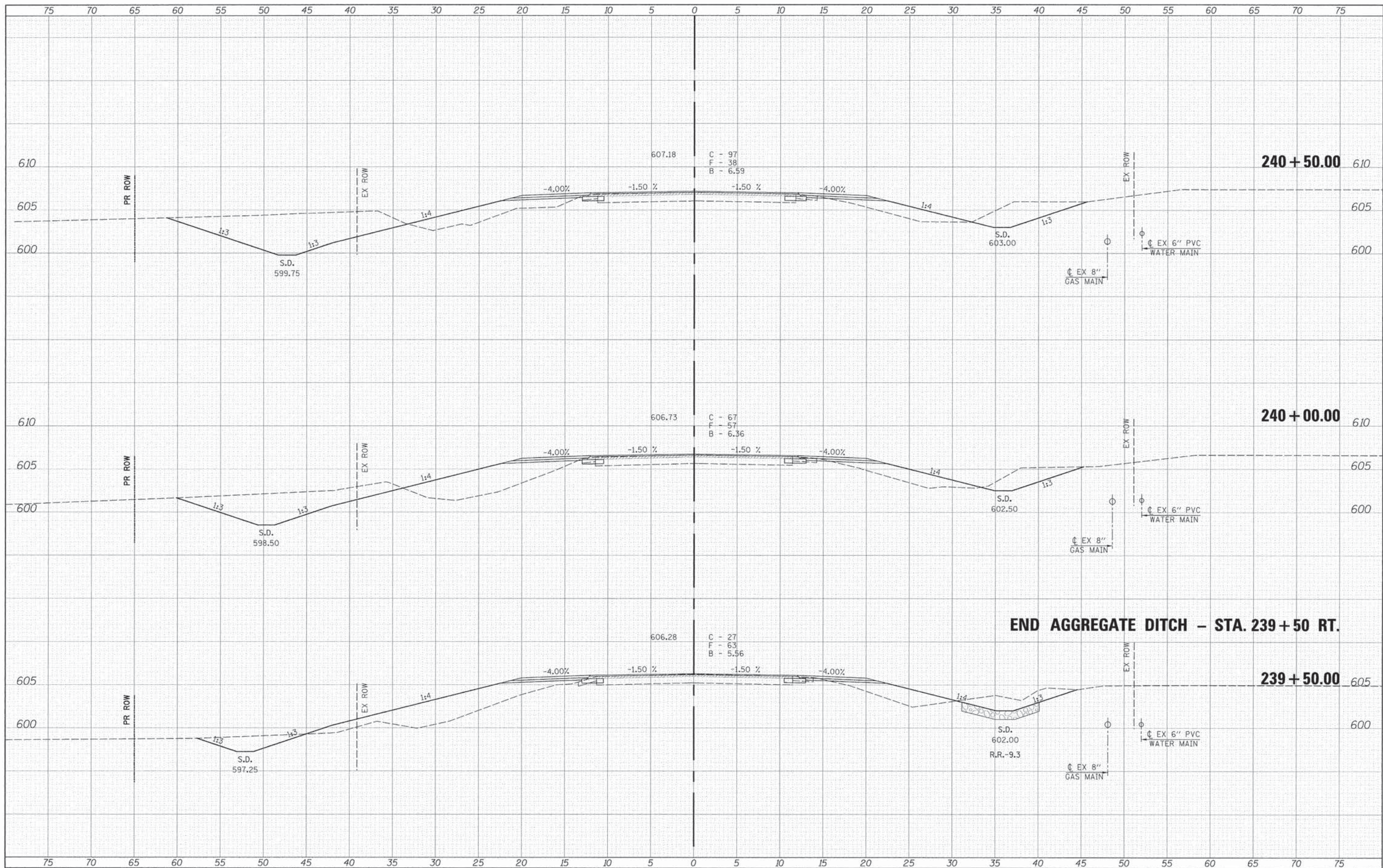
Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL.
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 No. 184-001907

CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 15 OF 49 SHEETS
STA. 238+22.00 TO STA. 239+00.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	34
CONTRACT NO. 93609				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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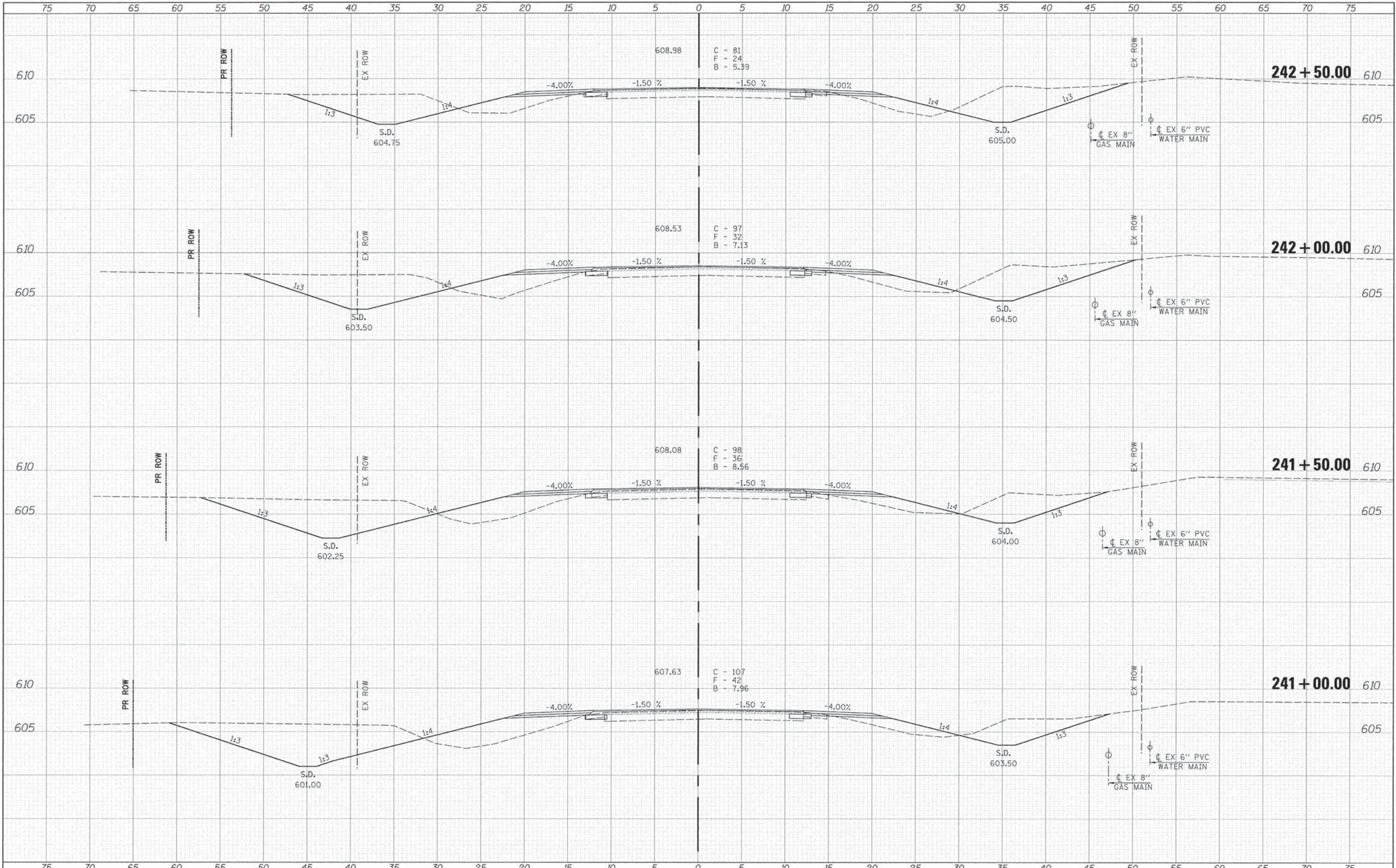
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Allen Henderson & Associates, Inc.
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No. 184-001907

CROSS SECTIONS
SCALE: 1" = 5'
SHEET NO. 16 OF 49 SHEETS
STA. 239+50.00 TO STA. 240+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	35
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 93609	



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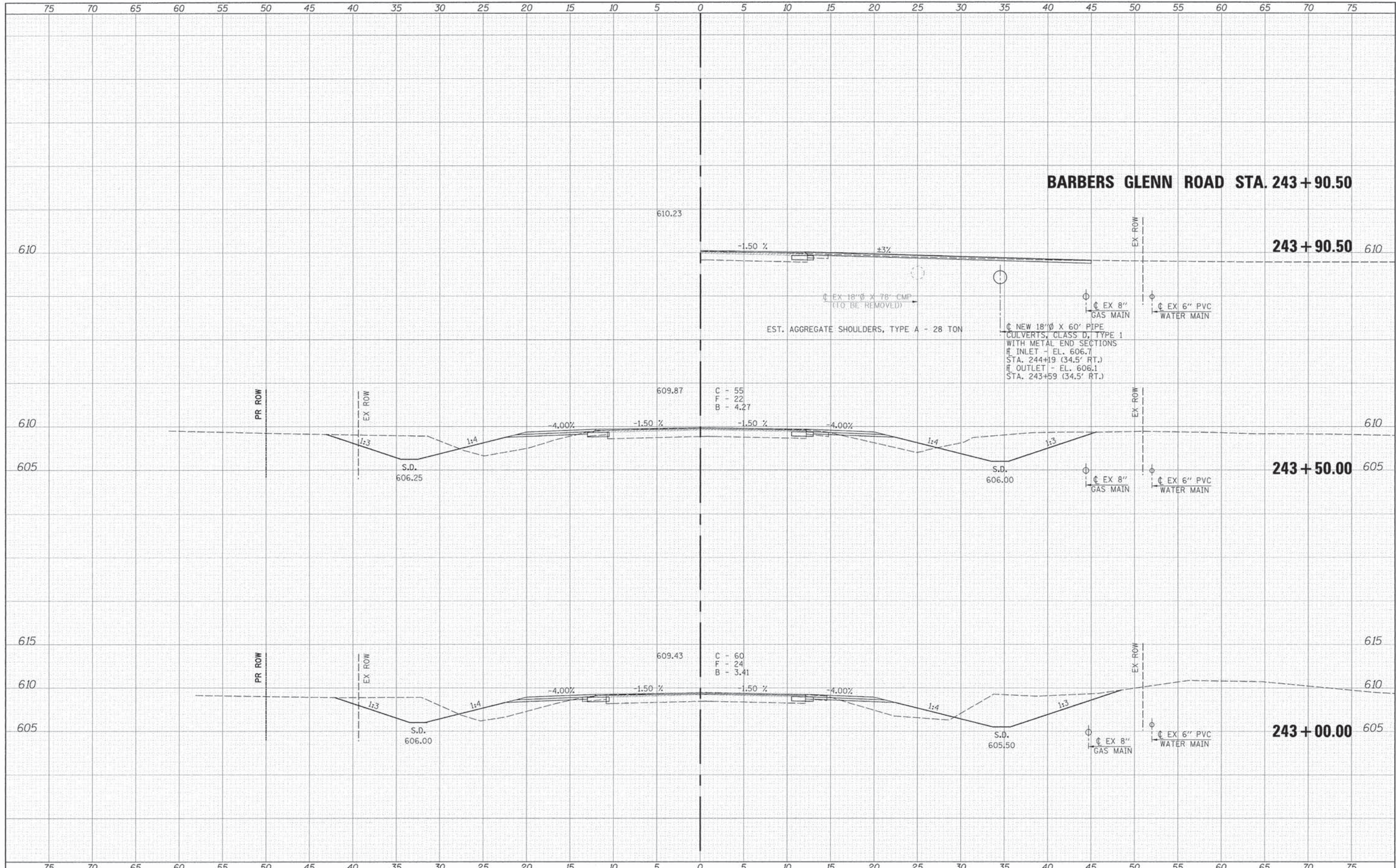
Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL.
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 17 OF 49 SHEETS
STA. 241+00.00 TO STA. 242+50.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	36
CONTRACT NO. 93609				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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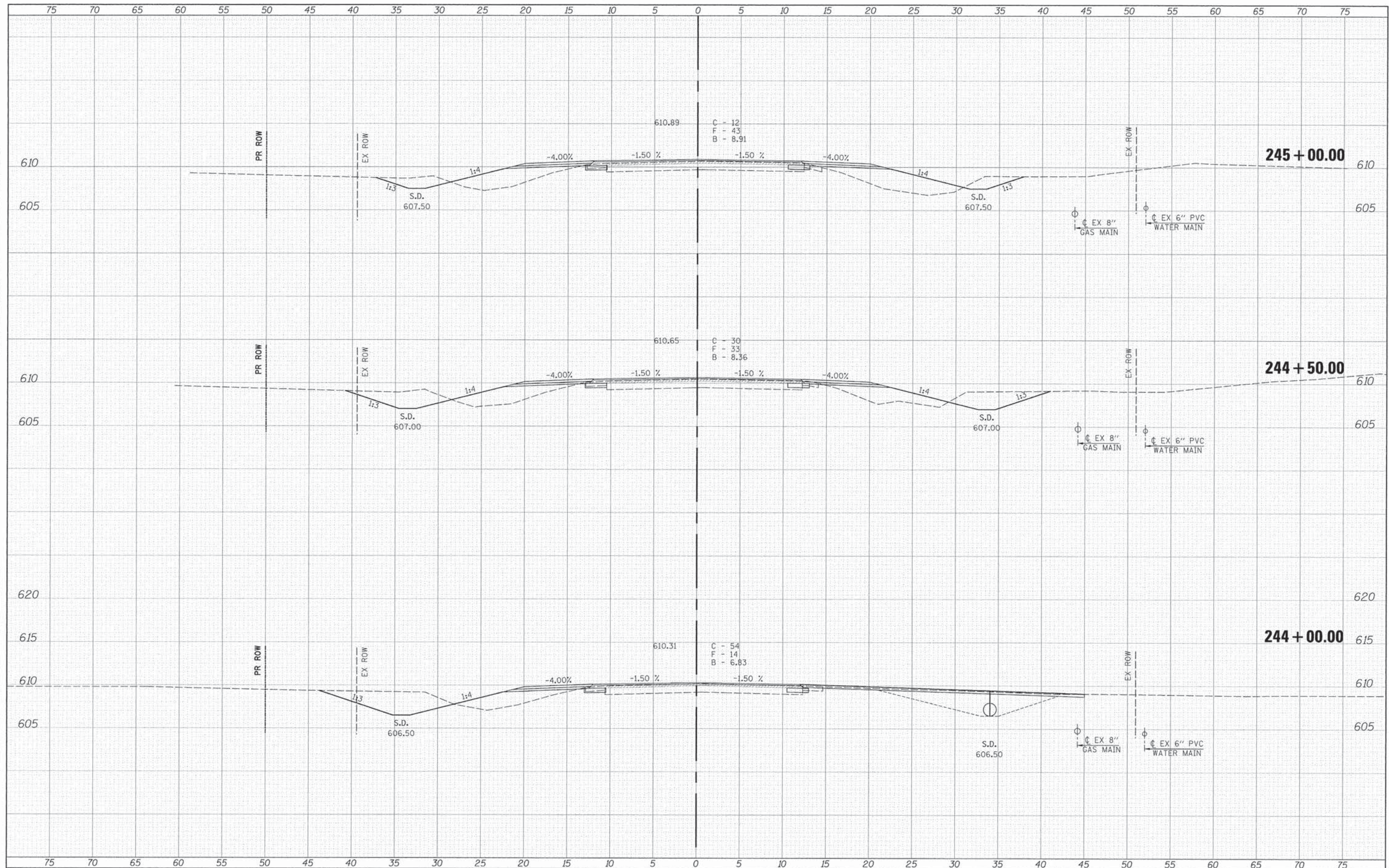
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FILE NAME	USER NAME	DESIGNED	REVISED	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED	REVISED		STA. 243+00.00 TO STA. 243+90.00		CONTRACT NO. 93609				
		DATE	REVISED		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT						

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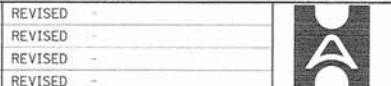
DATE _____ BY _____
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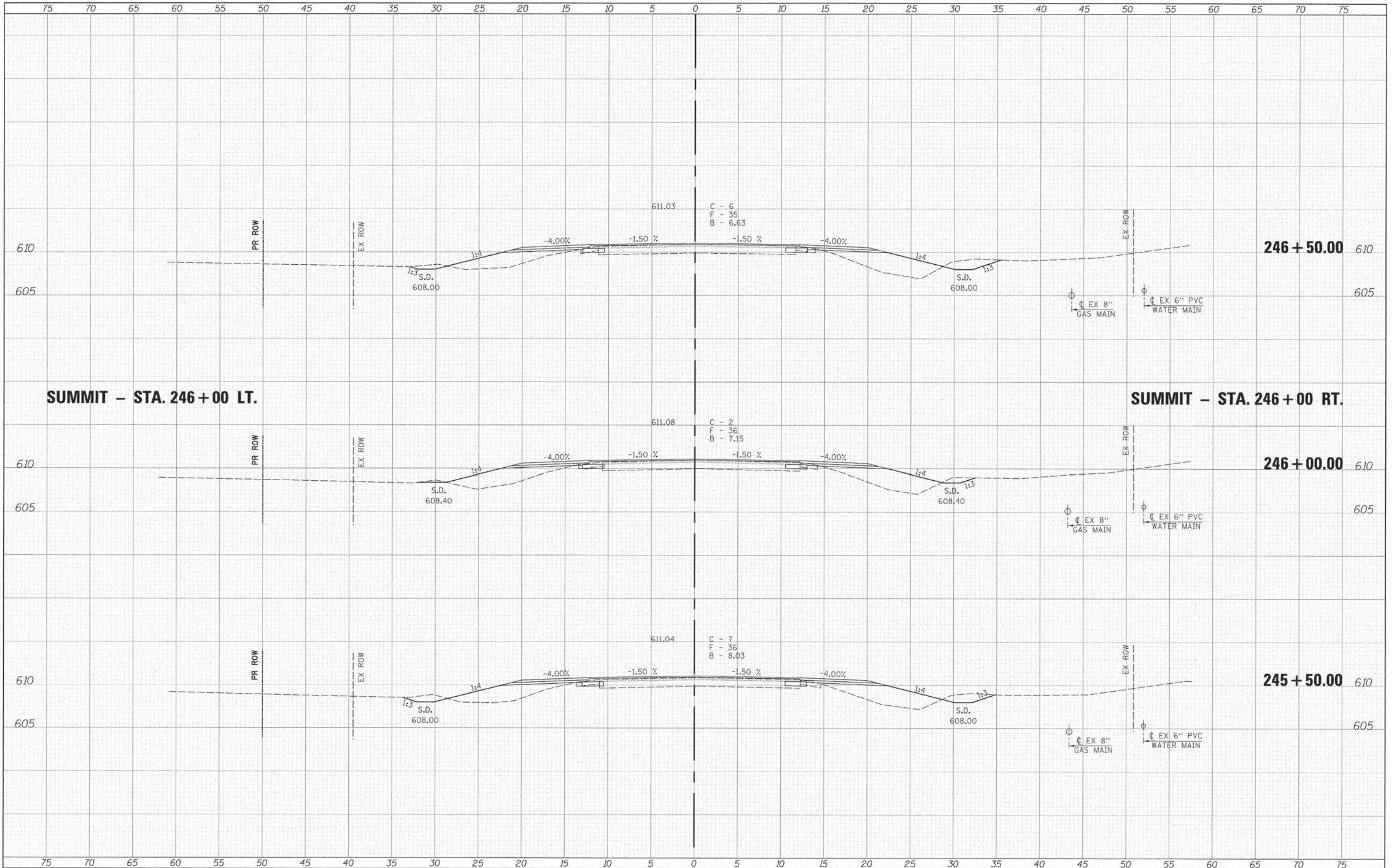
Allen Henderson & Associates, Inc.
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 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 19 OF 49 SHEETS
 STA. 244+00.00 TO STA. 245+00.00

F.A.S. RTE. 574	SECTION 08-00056-04-PV	COUNTY MENARD	TOTAL SHEETS 68	SHEET NO. 38
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93609	

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SUMMIT - STA. 246 + 00 LT.

SUMMIT - STA. 246 + 00 RT.

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PLOT DATE	#DATE#



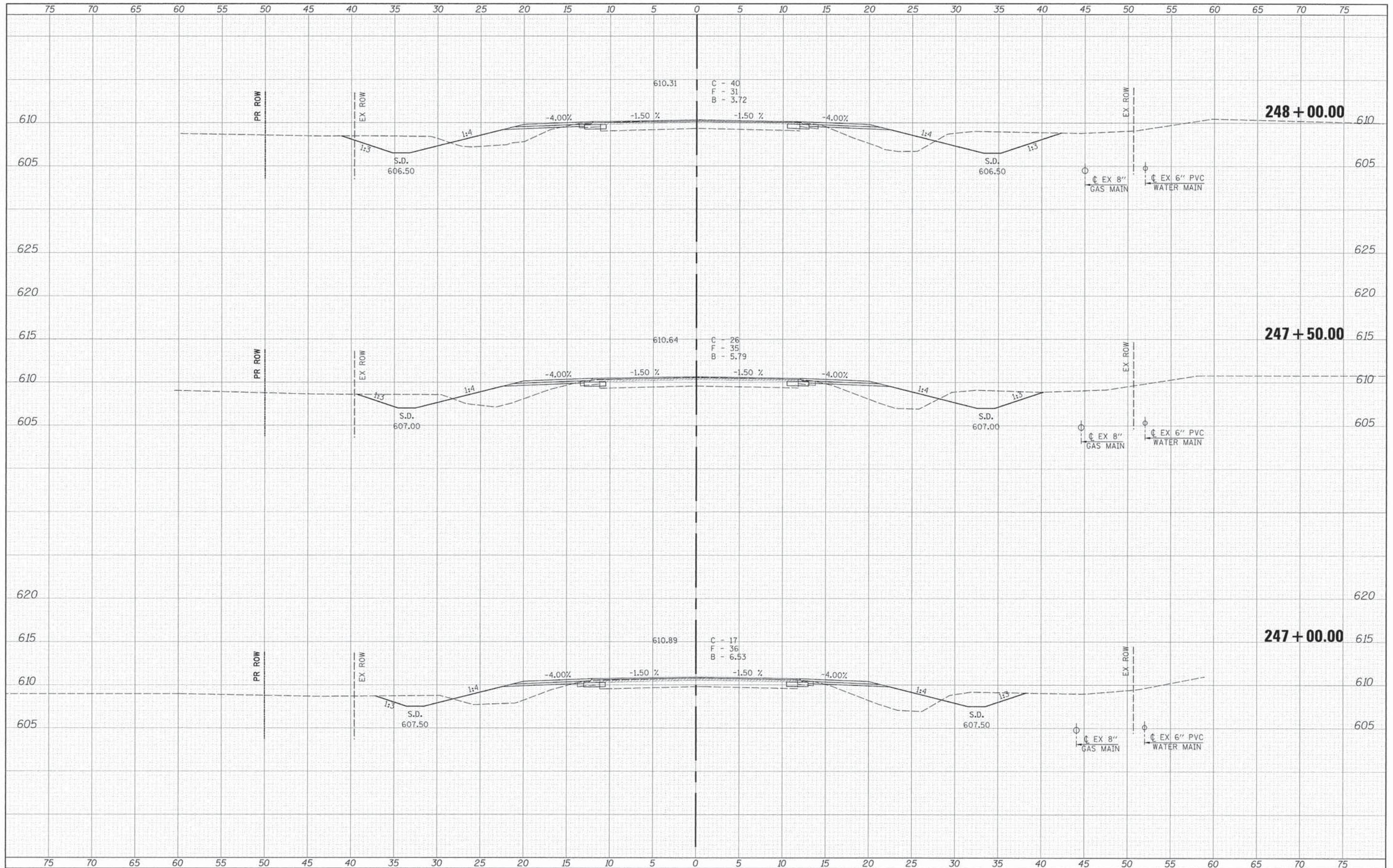
Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907


CROSS SECTIONS		
SCALE: 1" = 5'	SHEET NO. 20 OF 49 SHEETS	STA. 245+50.00 TO STA. 246+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	39
CONTRACT NO. 93609				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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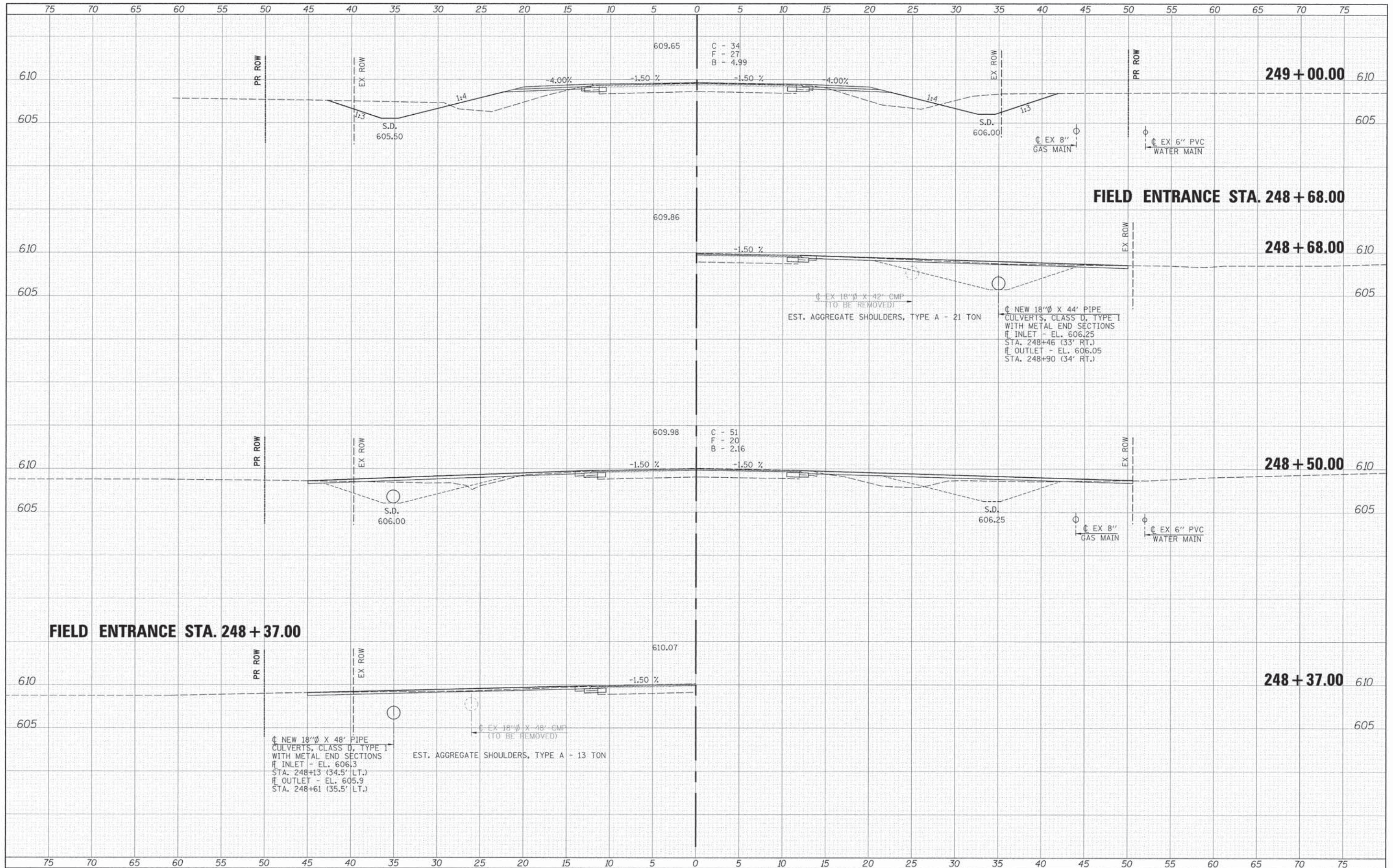
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FILE NAME	USER NAME	DESIGNED	REVISED	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE		DATE	REVISED		FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT			

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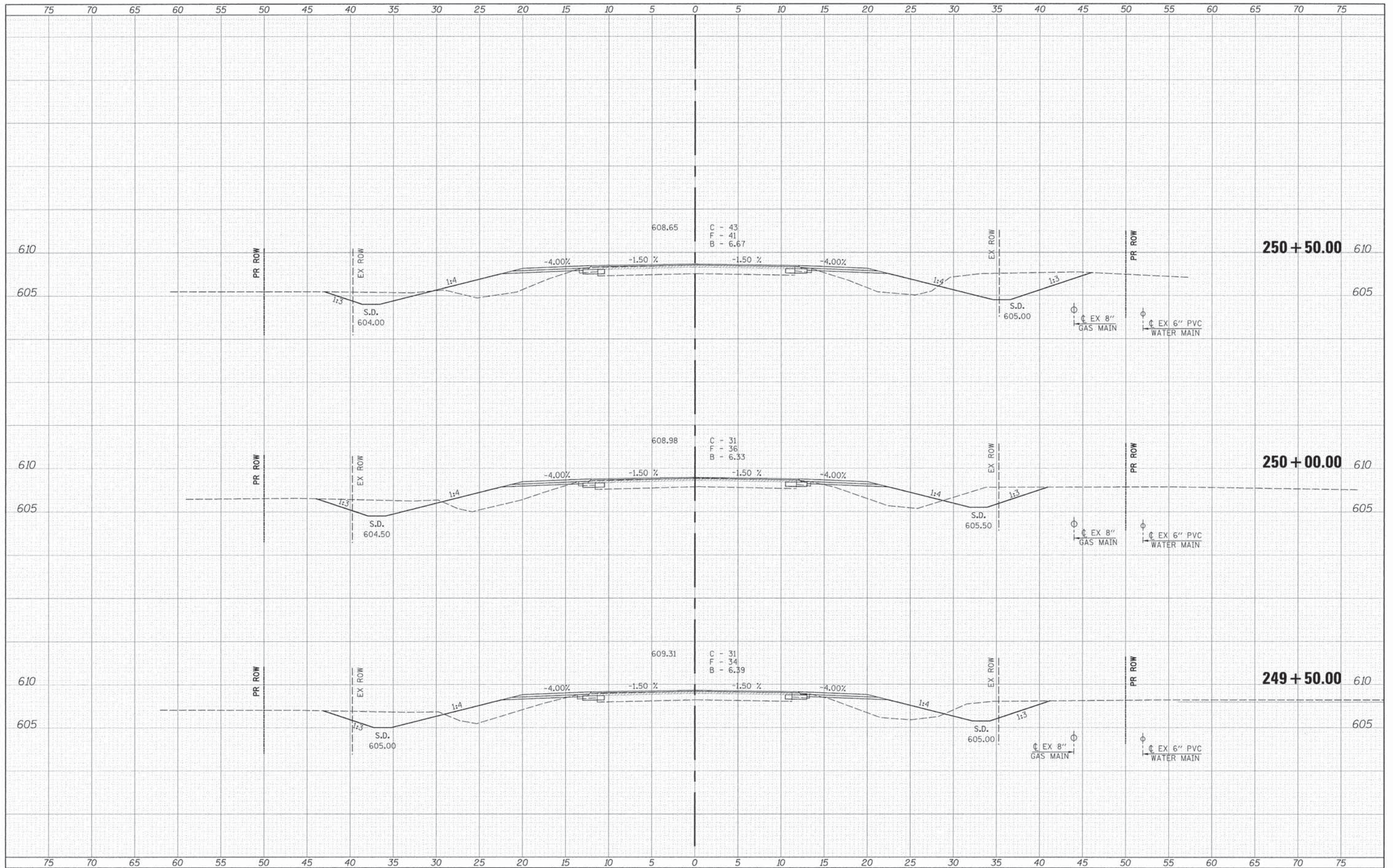
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FILE NAME	USER NAME	DESIGNED	REVISED	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLLOT SCALE	CHECKED	REVISED				574	08-00056-04-PV	MENARD	68	41	
PLLOT DATE	DATE	DATE	DATE		SCALE: 1" = 5'		SHEET NO. 22 OF 49 SHEETS		STA. 248+37.00 TO STA. 249+00.00		CONTRACT NO. 93609	
							FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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 No. 184-001907

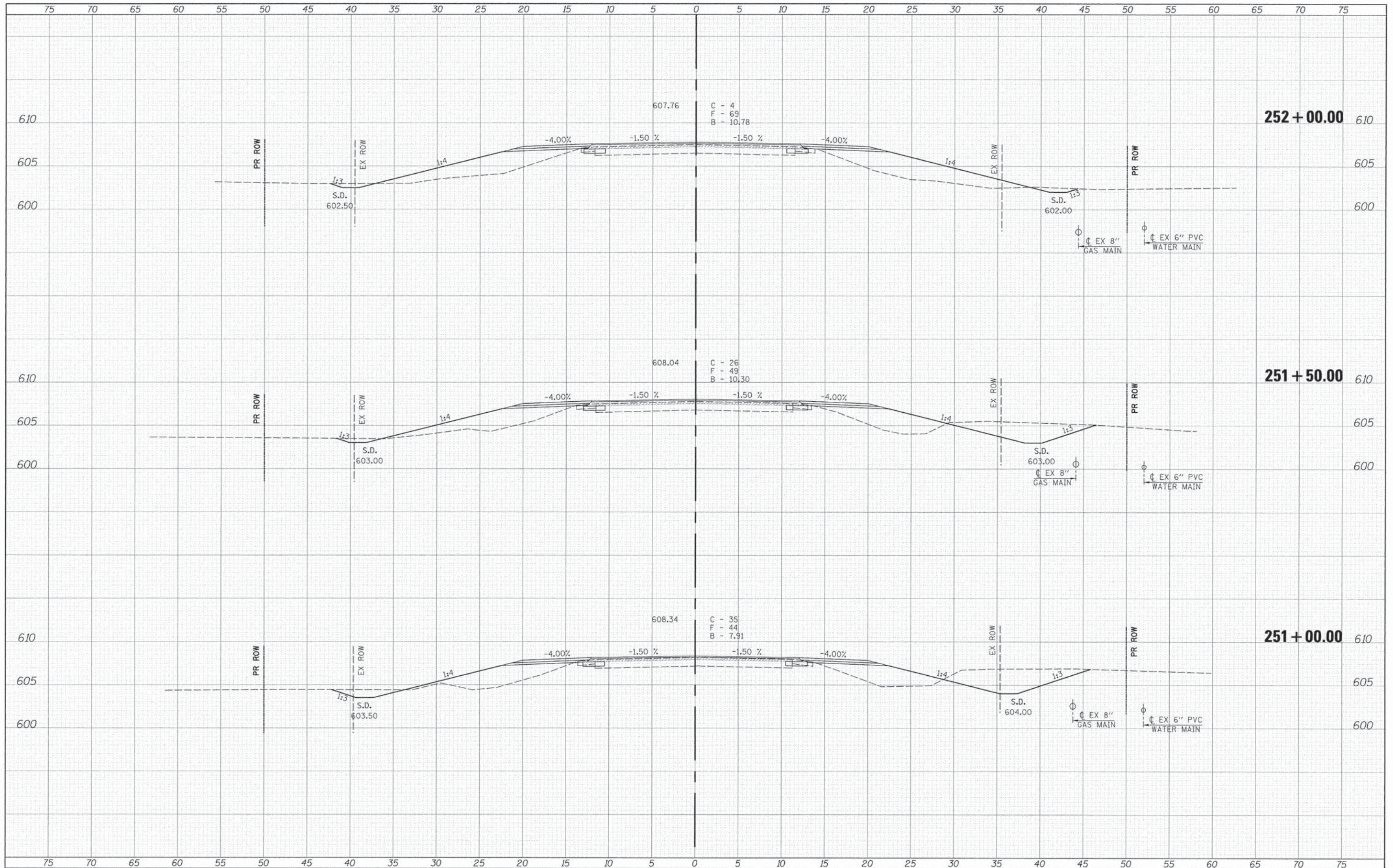
SCALE: 1" = 5'	
SHEET NO. 23 OF 49 SHEETS	STA. 249+50.00 TO STA. 250+50.00

F.A.S. RTE. 574	SECTION 08-00056-04-PV	COUNTY MENARD	TOTAL SHEETS 68	SHEET NO. 42
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 93609				

CROSS SECTIONS

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SCALE	1" = 5'
DATE	

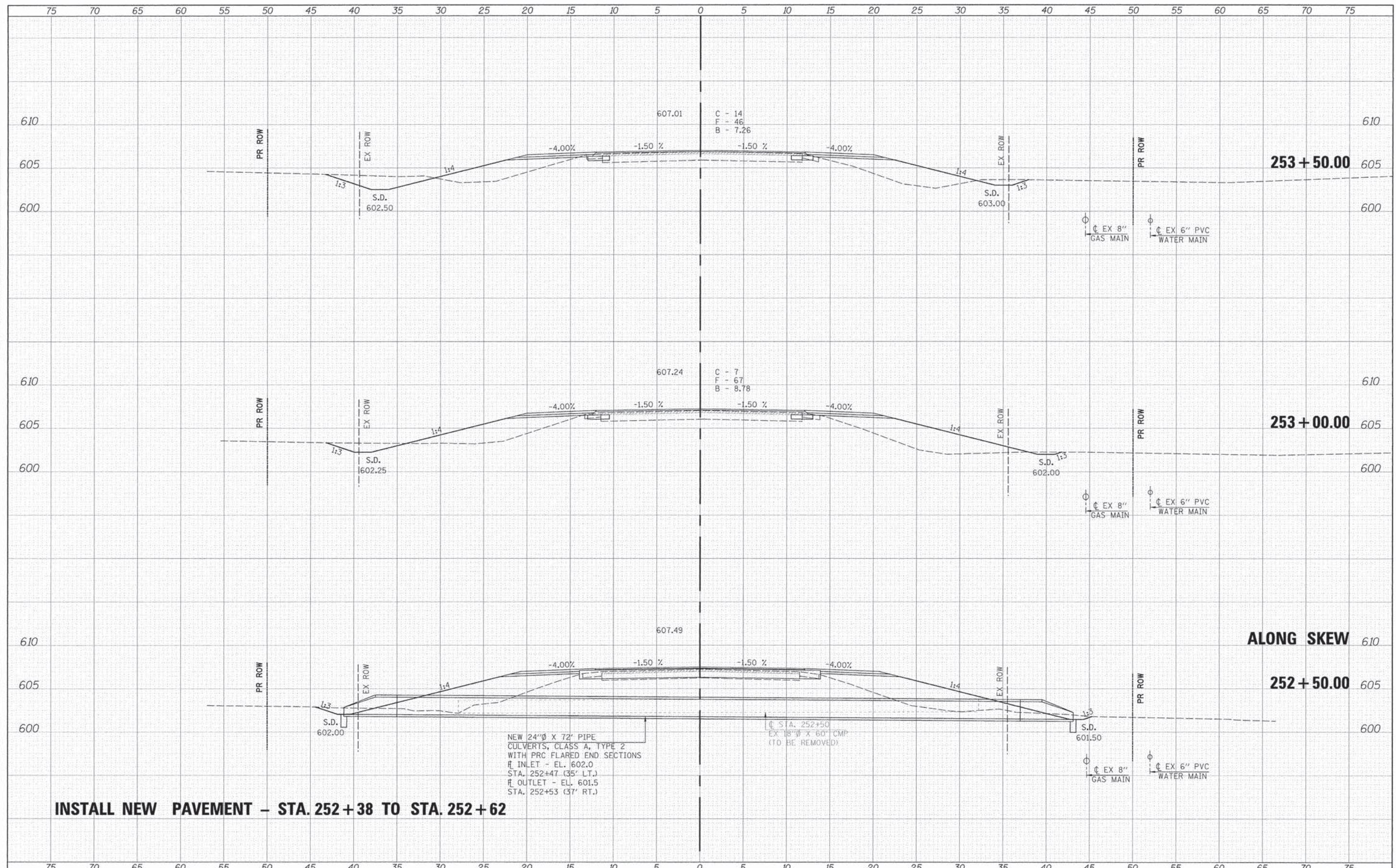
Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL.
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 24 OF 49 SHEETS
STA. 251+00.00 TO STA. 252+00.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	43
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 93609				

DATE BY
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NEW 24"Ø X 72' PIPE
 CULVERTS, CLASS A, TYPE 2
 WITH PRC FLARED END SECTIONS
 # INLET - EL. 602.0
 STA. 252+47 (35' LT.)
 # OUTLET - EL. 601.5
 STA. 252+53 (37' RT.)

EX 18"Ø X 60" CMP
 (TO BE REMOVED)

INSTALL NEW PAVEMENT - STA. 252+38 TO STA. 252+62

FILE NAME =
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USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = #DATE#

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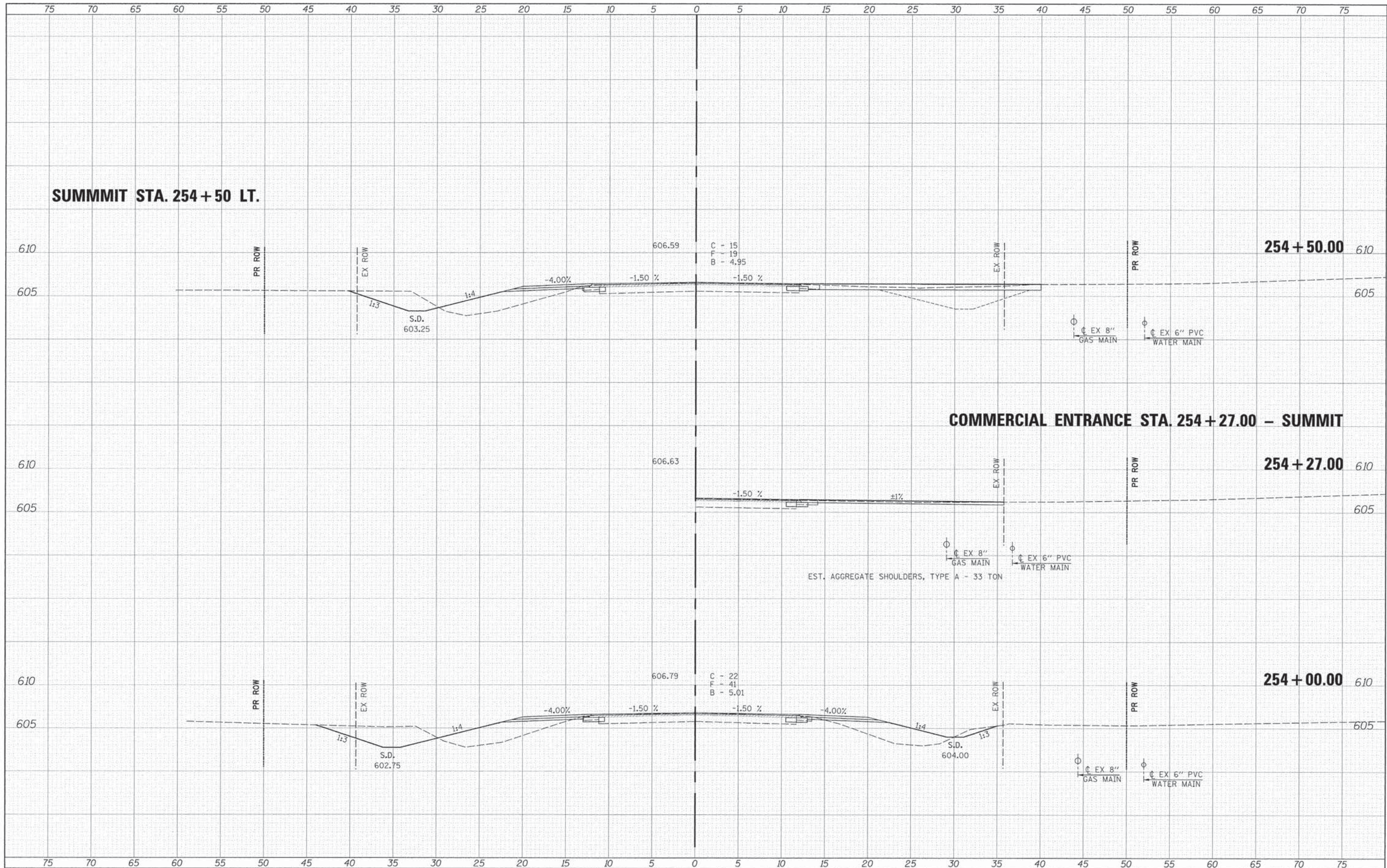
Allen Henderson & Associates, Inc.
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 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 25 OF 49 SHEETS
 STA. 252+50.00 TO STA. 253+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	44
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 93609

DATE	
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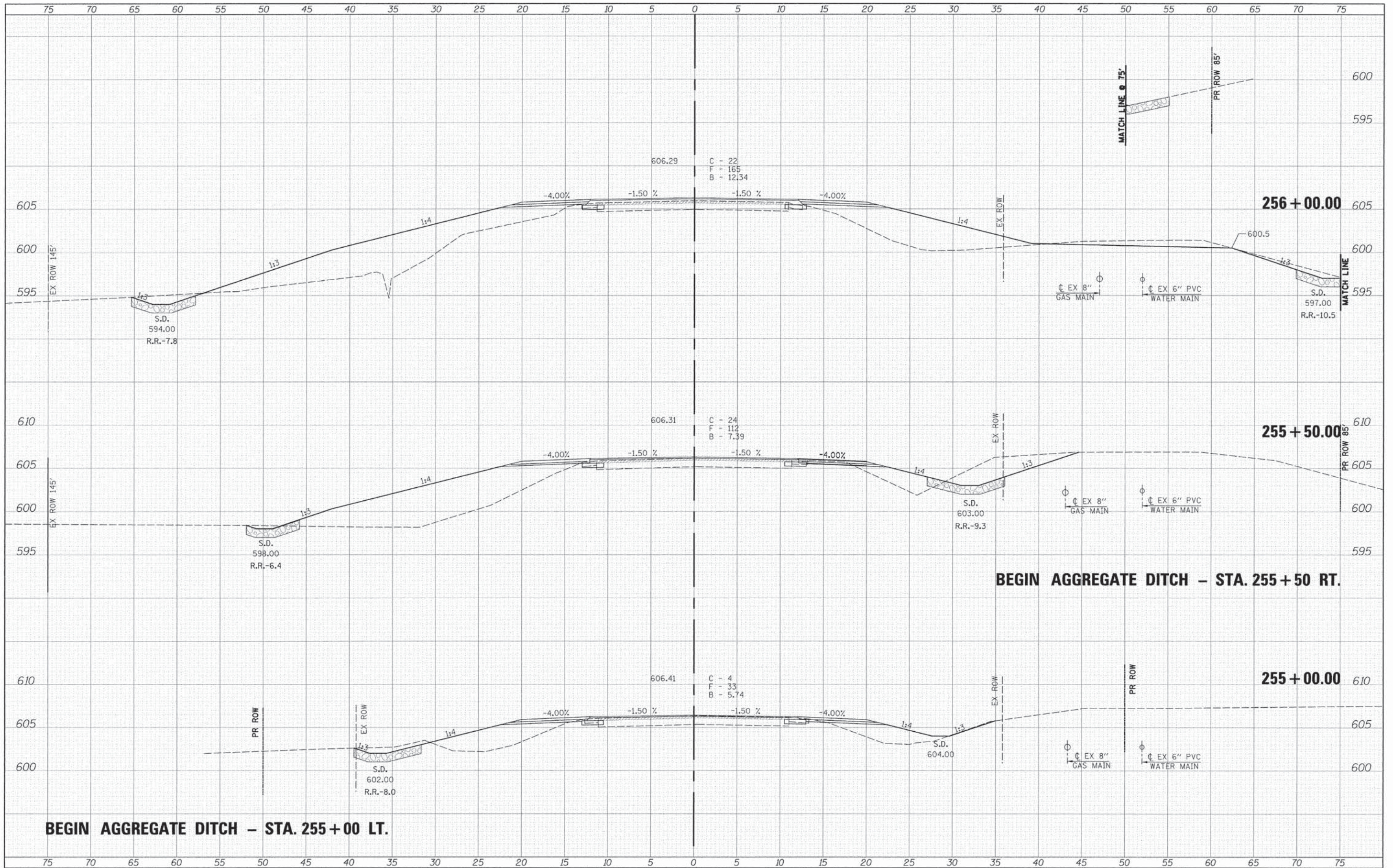
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CROSS SECTIONS		
SCALE: 1" = 5'	SHEET NO. 26 OF 49 SHEETS	STA. 254+00.00 TO STA. 254+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	45
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 93609				



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4	IN CHARGE
5	APPROVED

DATE	BY
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NO.	DESCRIPTION
1	DESIGNED
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3	DRAWN
4	IN CHARGE
5	APPROVED

BEGIN AGGREGATE DITCH - STA. 255+00 LT.

BEGIN AGGREGATE DITCH - STA. 255+50 RT.

FILE NAME	USER NAME
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DESIGNED	REVISIONS
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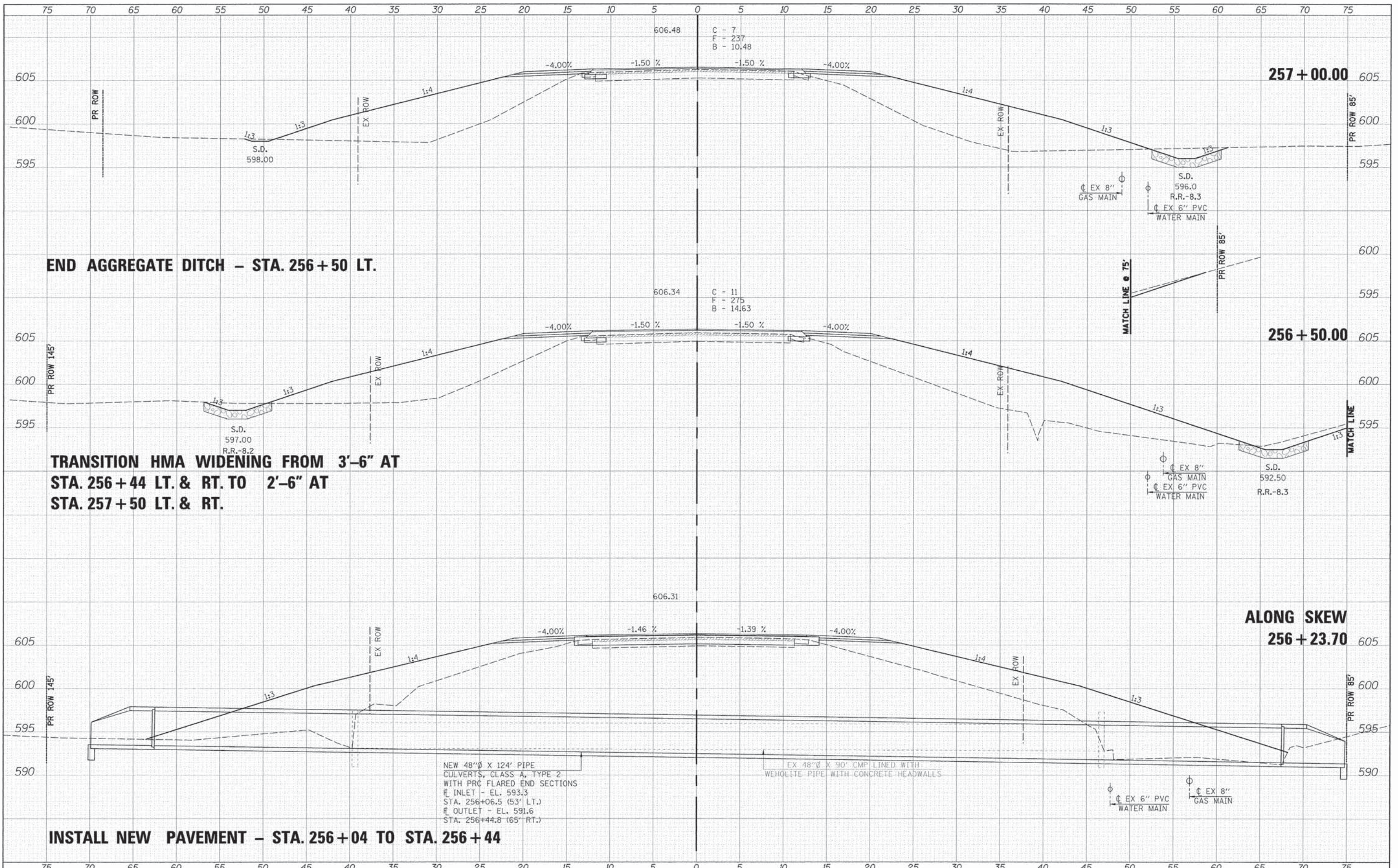


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 No. 184-001907

SCALE: 1" = 5'	
SHEET NO. 27 OF 49 SHEETS	STA. 255+00.00 TO STA. 256+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	46
CONTRACT NO. 93609				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CROSS SECTIONS



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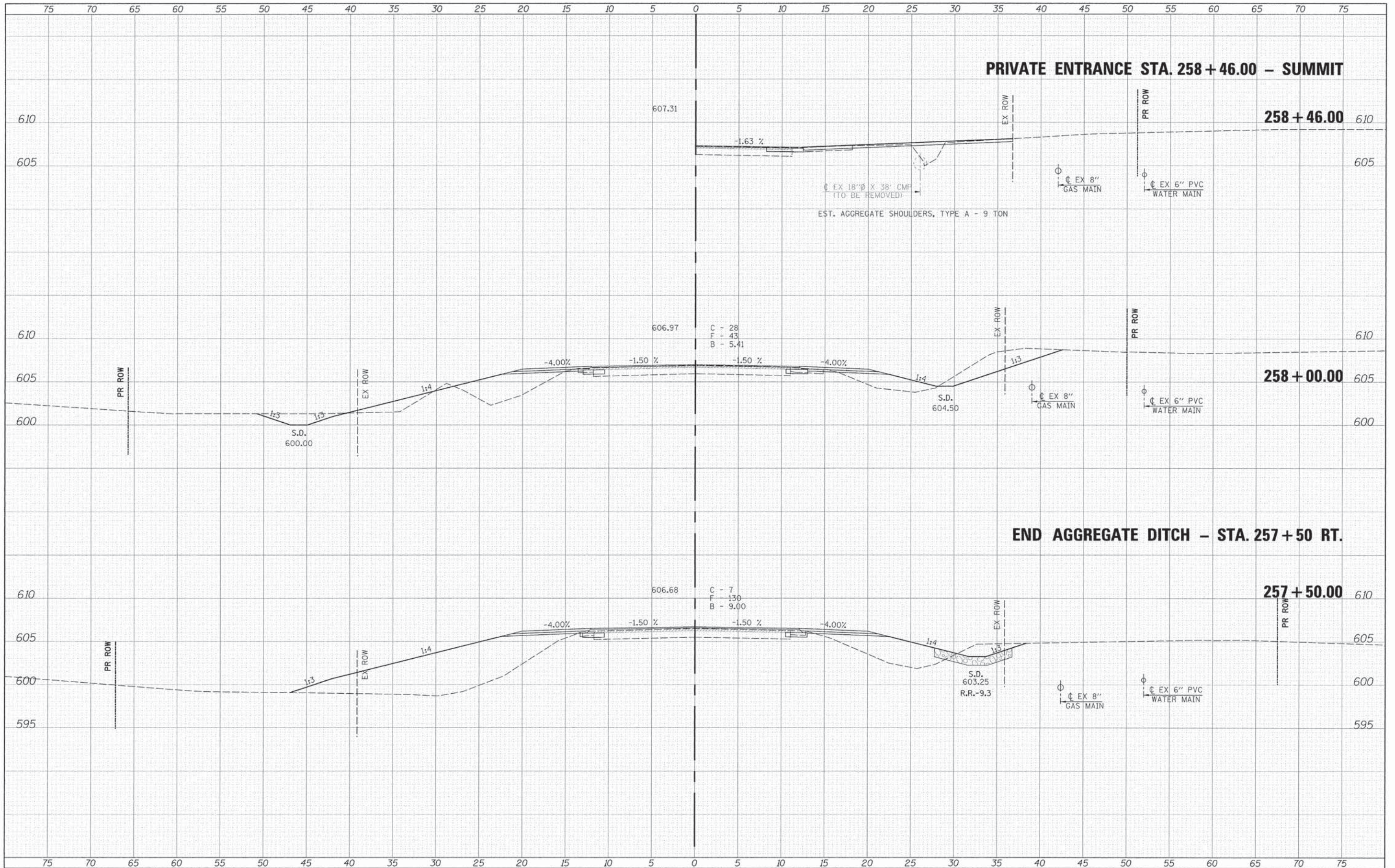
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NEW 48"Ø X 124' PIPE
 CULVERTS, CLASS A, TYPE 2
 WITH PRC FLARED END SECTIONS
 INLET - EL. 593.3
 STA. 256+06.5 (53' LT.)
 OUTLET - EL. 591.6
 STA. 256+44.8 (65' RT.)

EX 48"Ø X 90' CMP LINED WITH
 WHOLITE PIPE WITH CONCRETE HEADWALLS

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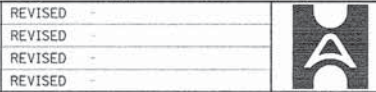
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 No. 184-001907

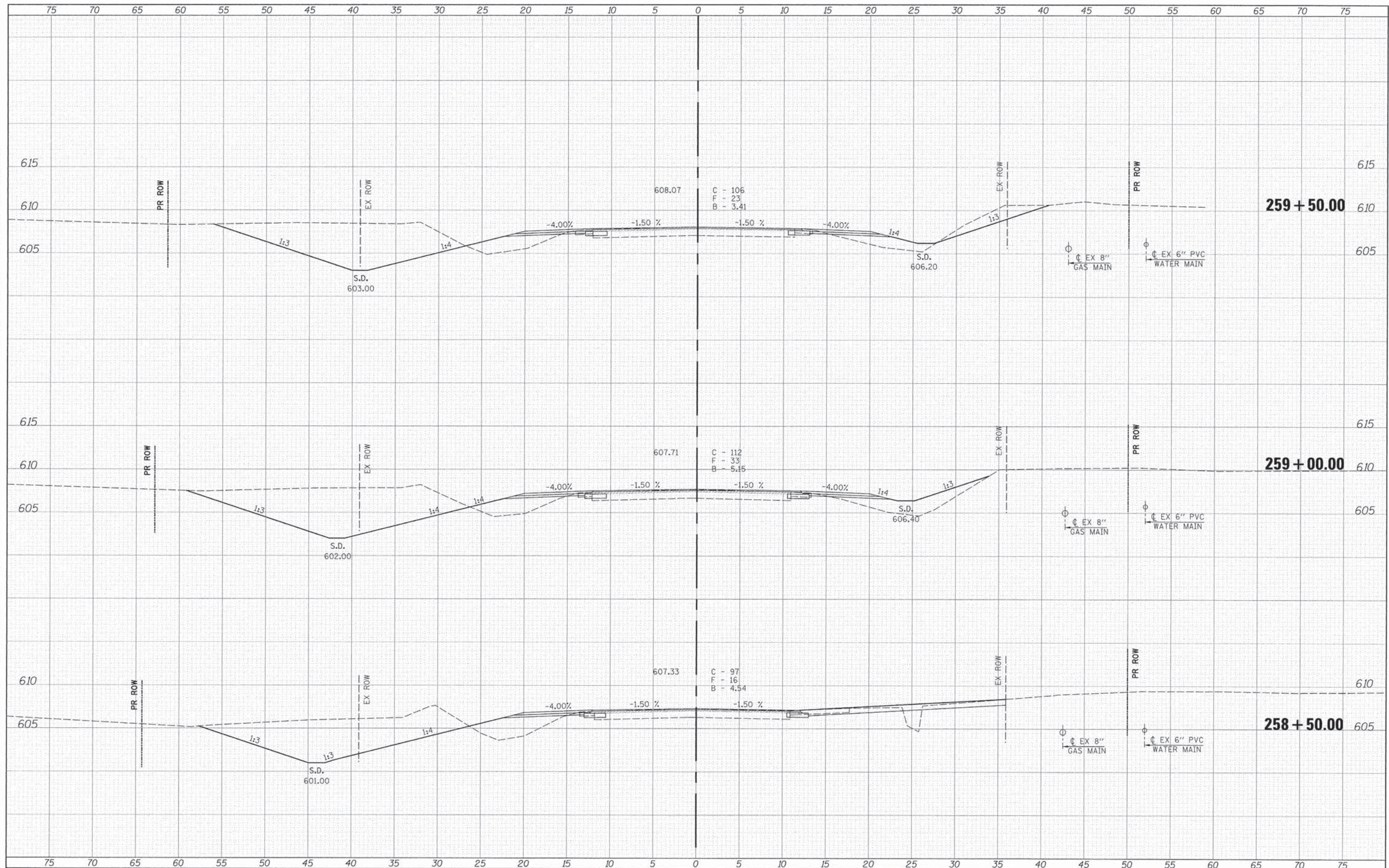
CROSS SECTIONS		
SCALE: 1" = 5'	SHEET NO. 29 OF 49 SHEETS	STA. 257+50.00 TO STA. 258+46.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	48
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 93609

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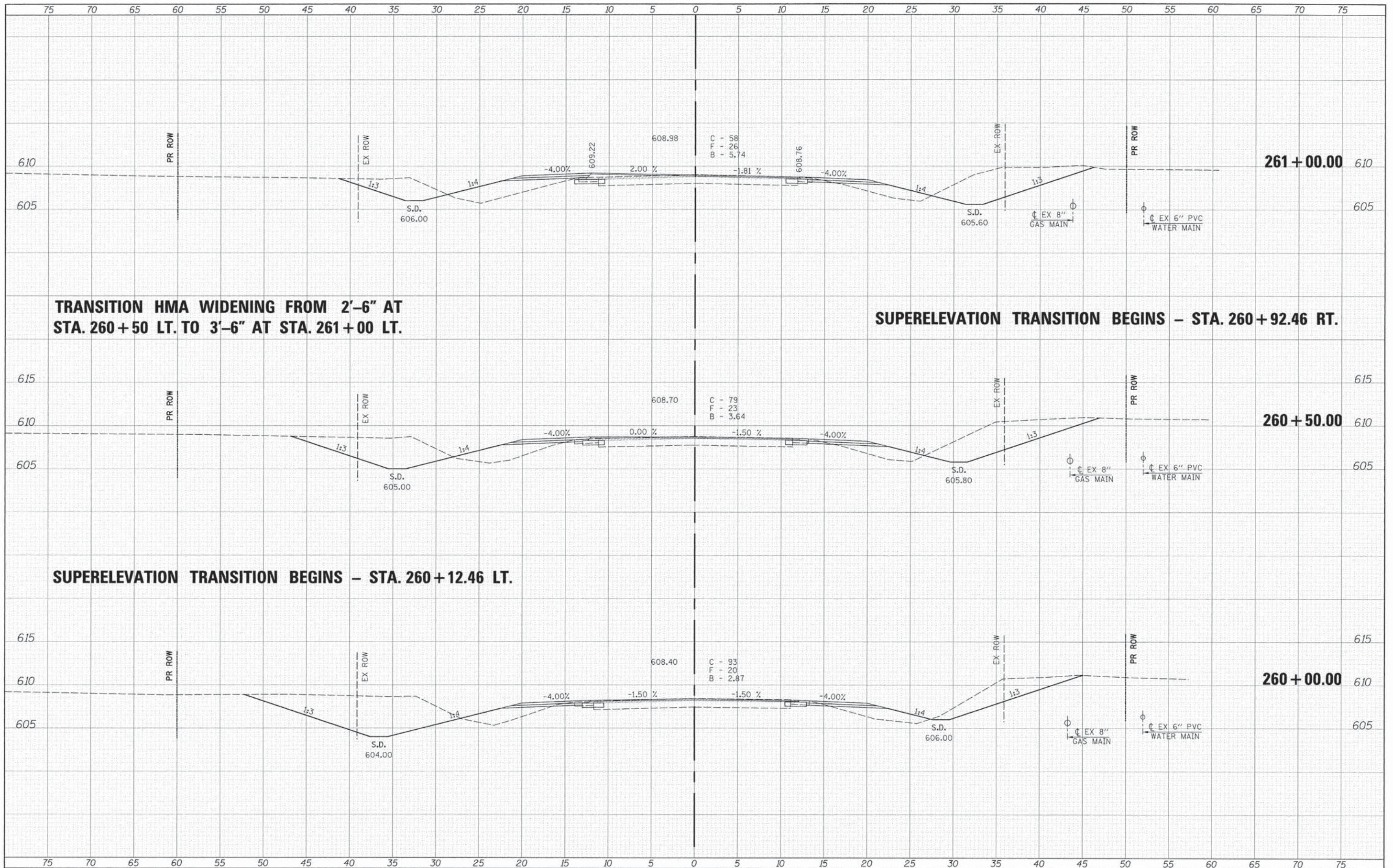
Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 30 OF 49 SHEETS
STA. 258+50.00 TO STA. 259+50.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	49
CONTRACT NO. 3609				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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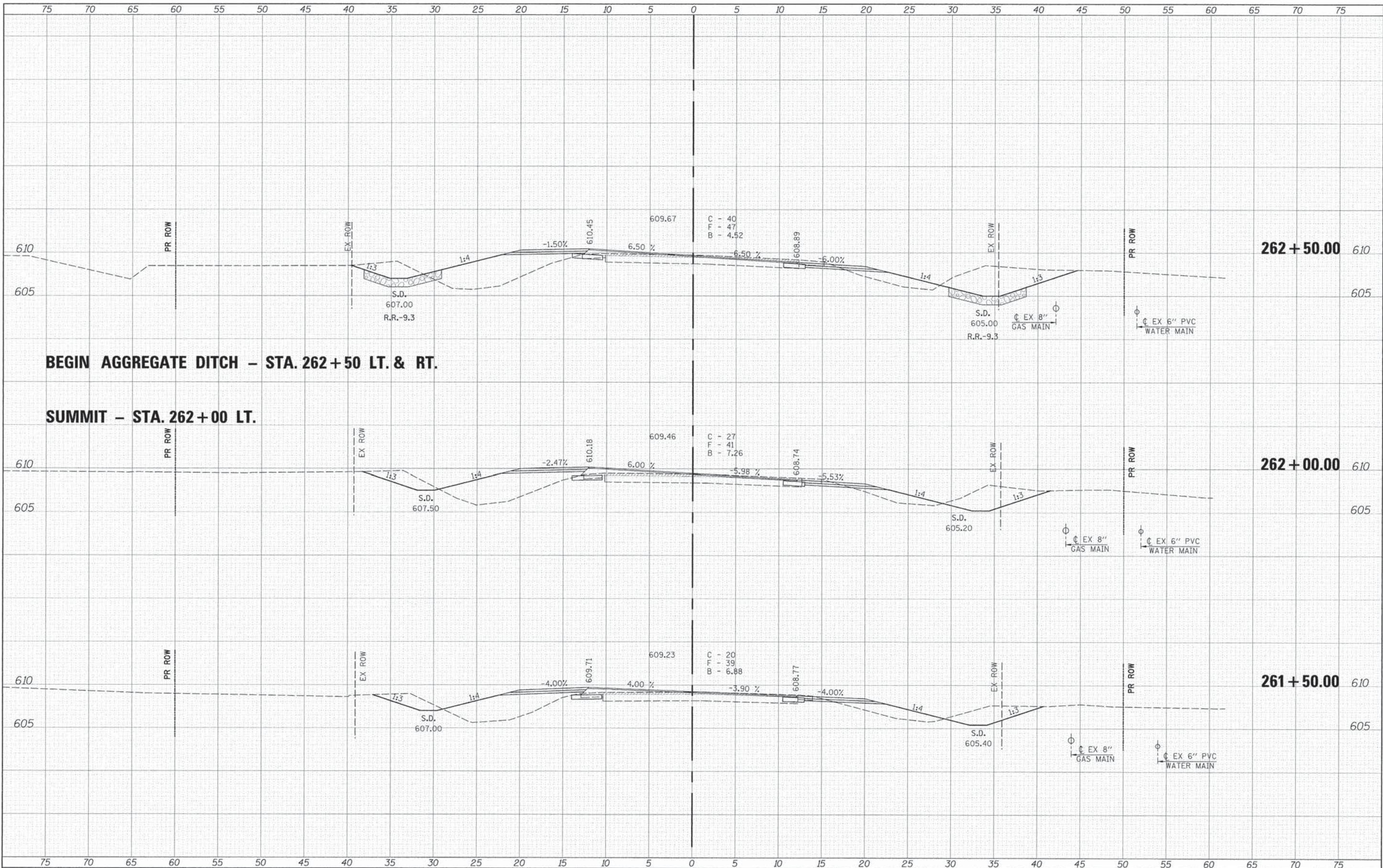
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FILE NAME	USER NAME - #USER#	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE - #DATE#	CHECKED -	REVISED -					CONTRACT NO. 93609				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

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BEGIN AGGREGATE DITCH - STA. 262+50 LT. & RT.

SUMMIT - STA. 262+00 LT.

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 No. 184-001907

CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 32 OF 49 SHEETS
STA. 261+50.00 TO STA. 262+50.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	51
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

262 + 50.00

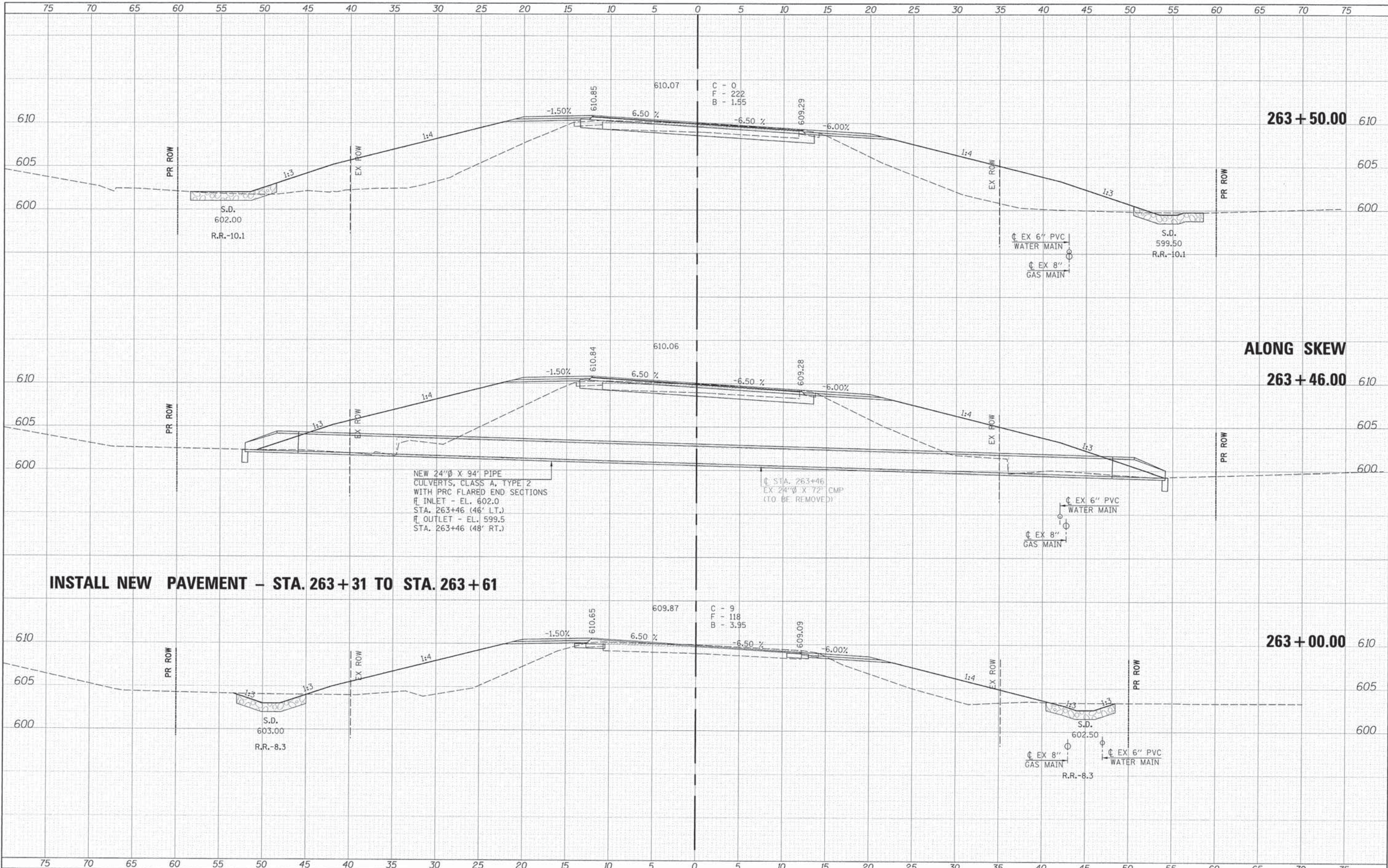
262 + 00.00

261 + 50.00

CONTRACT NO. 93609

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NOTE BOOK	
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PLATE	
NOTE BOOK	
AREAS CHECKED	



INSTALL NEW PAVEMENT - STA. 263+31 TO STA. 263+61

NEW 24"Ø X 94' PIPE
CULVERTS, CLASS A, TYPE 2
WITH PRC FLARED END SECTIONS
INLET - EL. 602.0
STA. 263+46 (46' LT.)
OUTLET - EL. 599.5
STA. 263+46 (48' RT.)

EX 24"Ø X 72' CMP
(TO BE REMOVED)

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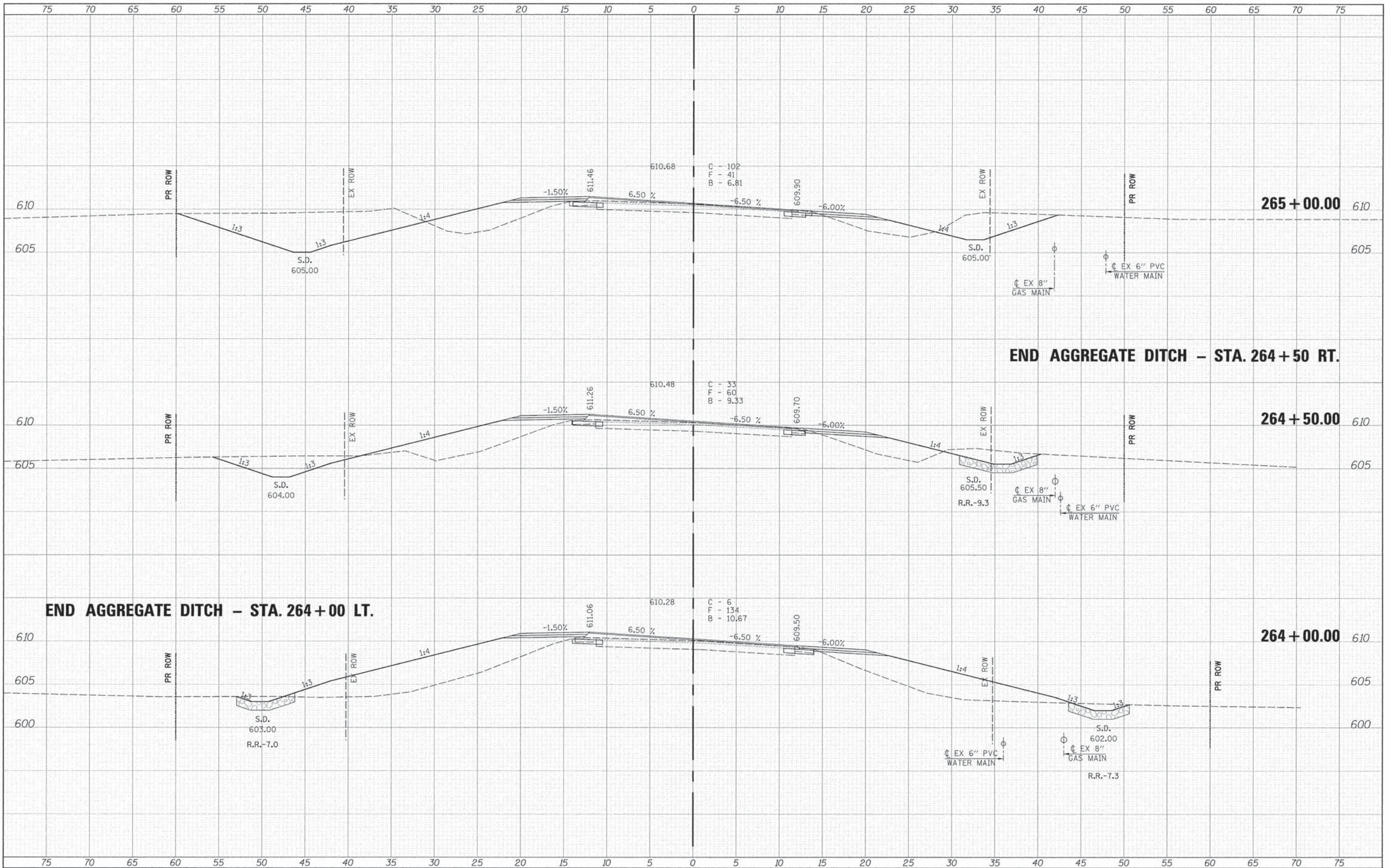
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Civil and Structural Engineers Springfield, IL
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No. 184-001907

SCALE: 1" = 5'	
SHEET NO. 33 OF 49 SHEETS	STA. 263+00.00 TO STA. 263+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	52
CONTRACT NO. 93609				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

CROSS SECTIONS



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SCALE	#SCALE#
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Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL.
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 No. 184-001907

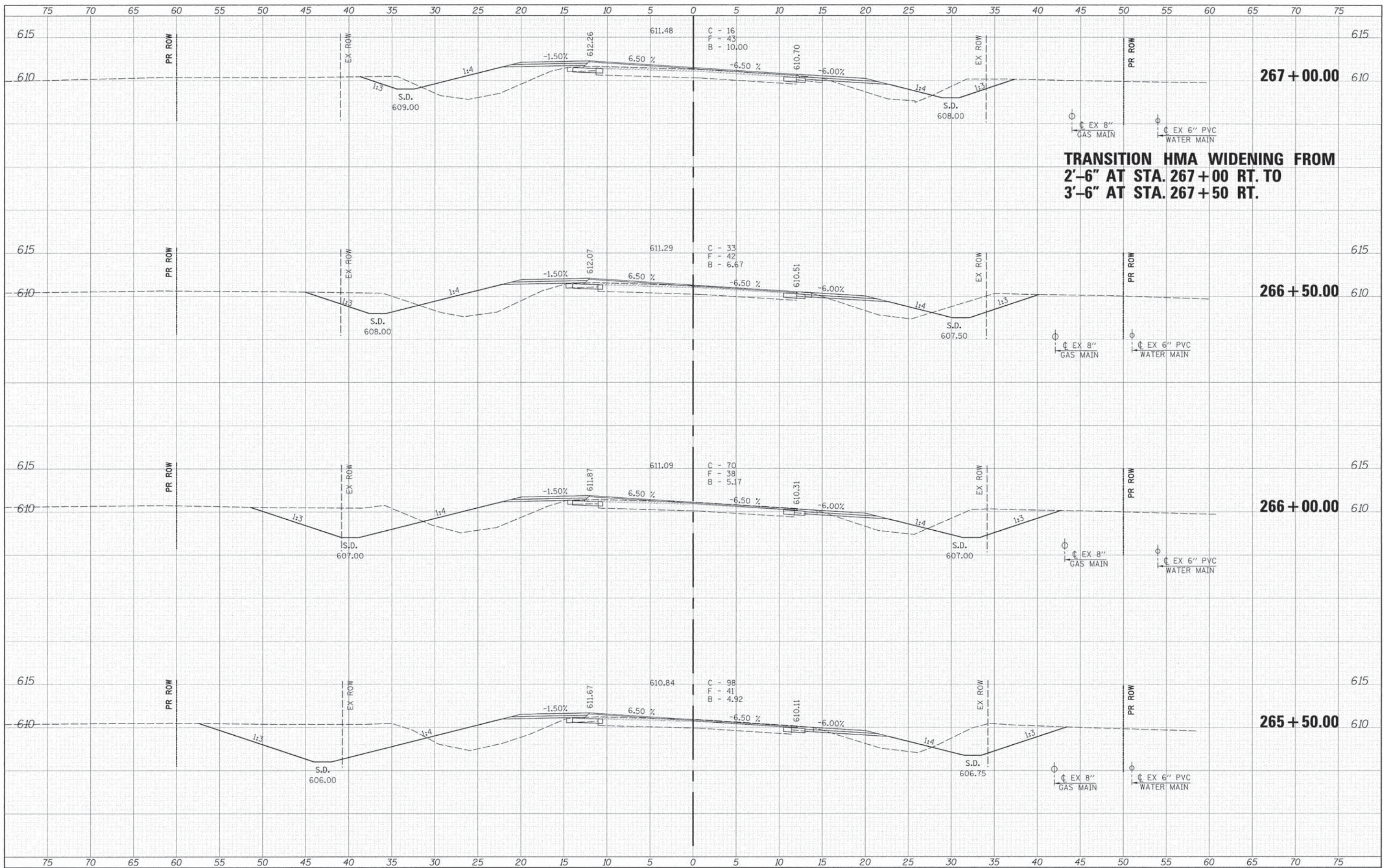
CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 34 OF 49 SHEETS
STA. 264+00.00 TO STA. 265+00.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	53
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 93609

FINAL	DATE
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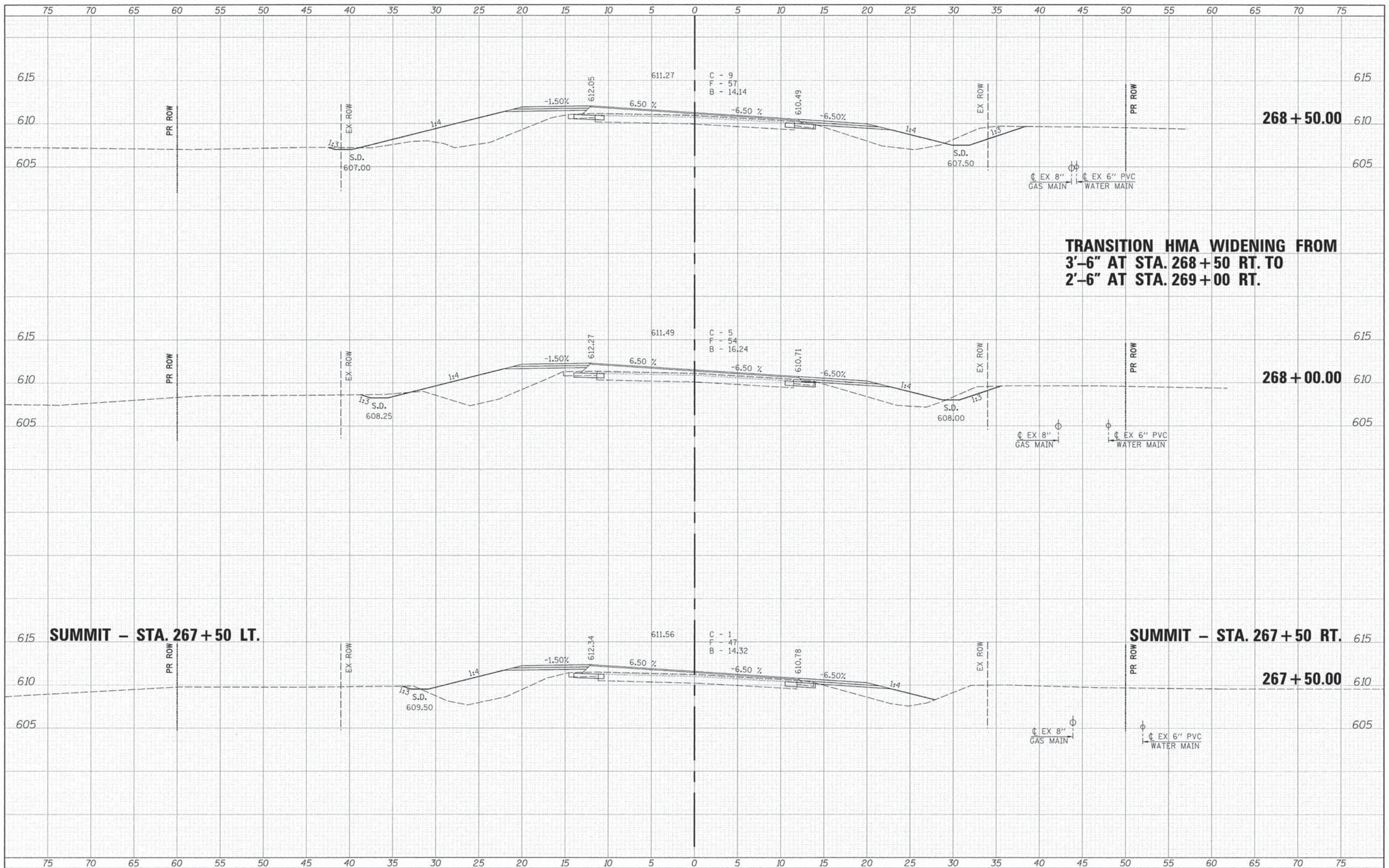


**TRANSITION HMA WIDENING FROM
2'-6" AT STA. 267+00 RT. TO
3'-6" AT STA. 267+50 RT.**

FILE NAME	USER NAME - BUSER#	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p align="center">CROSS SECTIONS</p> <p>SCALE: 1" = 5' SHEET NO. 35 OF 49 SHEETS STA. 265+50.00 TO STA. 267+00.00</p>		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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DATE	DATE
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NOTE BOOK	TEMP. PLATE
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DATE	DATE
NO.	NO.
NOTE BOOK	TEMP. PLATE
AREAS CHECKED	AREAS CHECKED



**TRANSITION HMA WIDENING FROM
3'-6" AT STA. 268+50 RT. TO
2'-6" AT STA. 269+00 RT.**

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Allen Henderson & Associates, Inc.
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No. 184-001907

SCALE: 1" = 5'	SHEET NO. 36 OF 49 SHEETS	STA. 267+50.00 TO STA. 268+50.00
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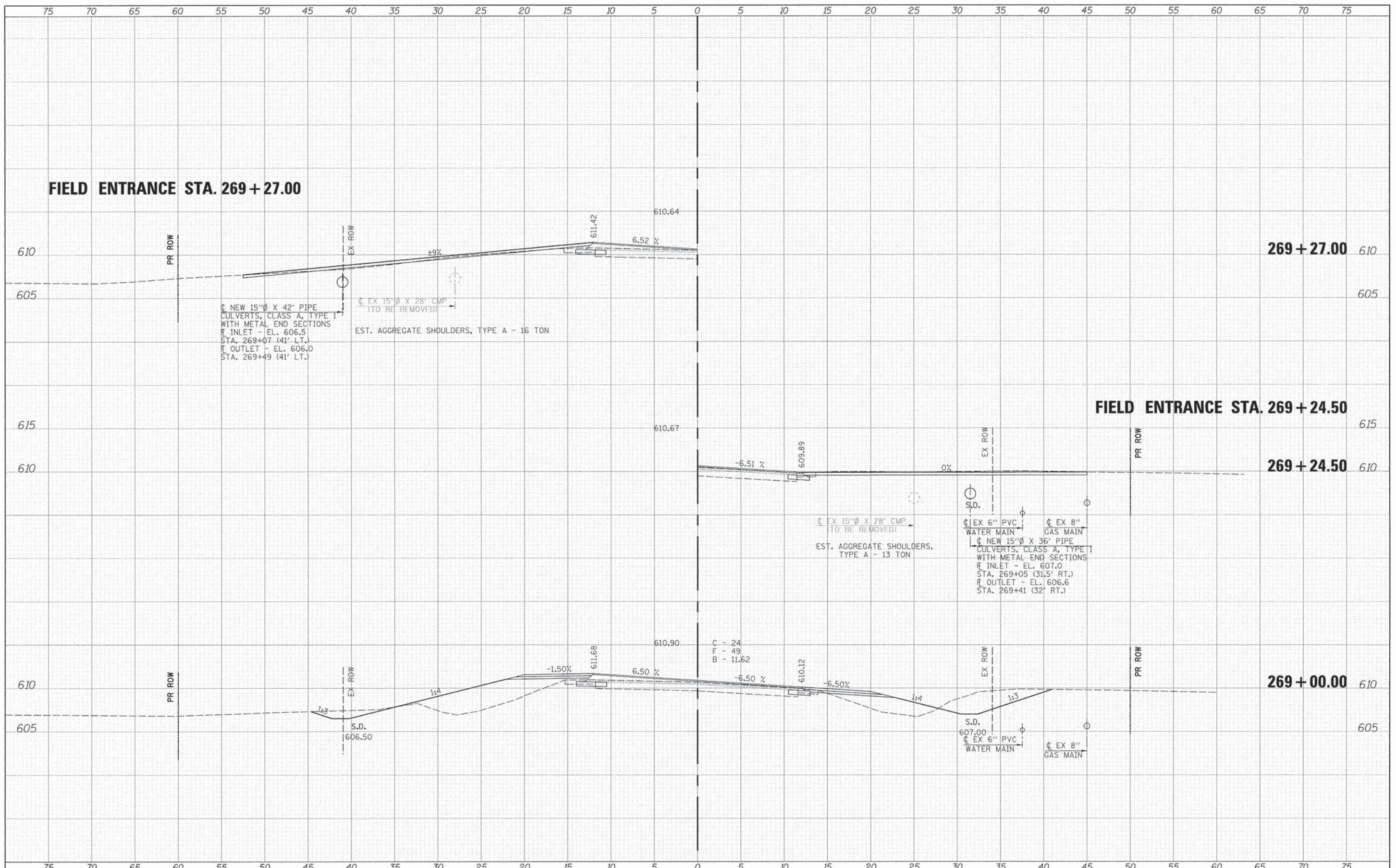
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574	08-00056-04-PV	MENARD	68	55
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CROSS SECTIONS

CONTRACT NO. 93609

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 No. 184-001907

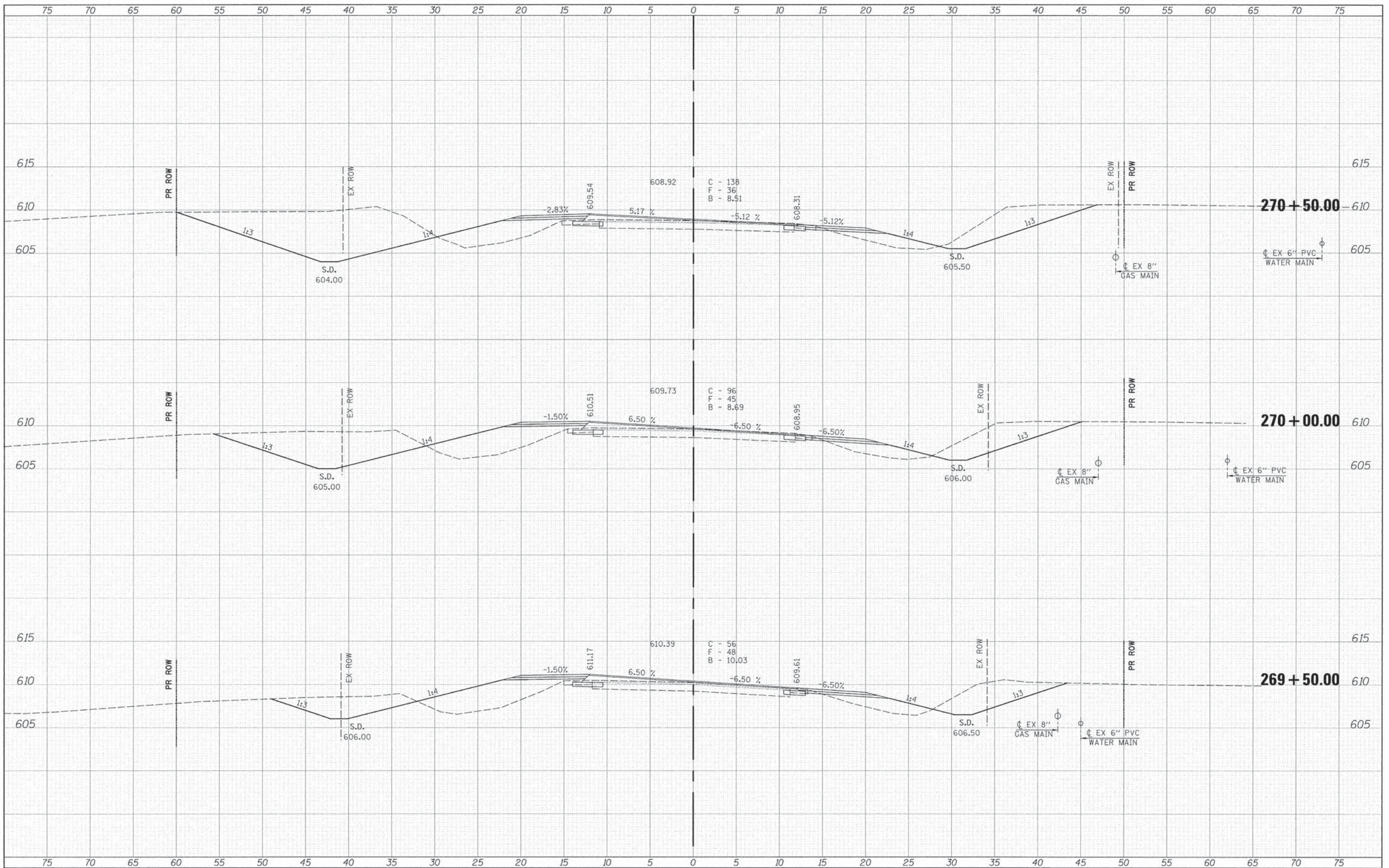
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 37 OF 49 SHEETS STA. 269+00.00 TO STA. 269+27.00

F.A.S. RTE. 574	SECTION 08-00056-04-PV	COUNTY MENARD	TOTAL SHEETS 68	SHEET NO. 56
CONTRACT NO. 93609				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

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PLOT SCALE	SCALE	CHECKED	REVISED

DATE	REVISED		



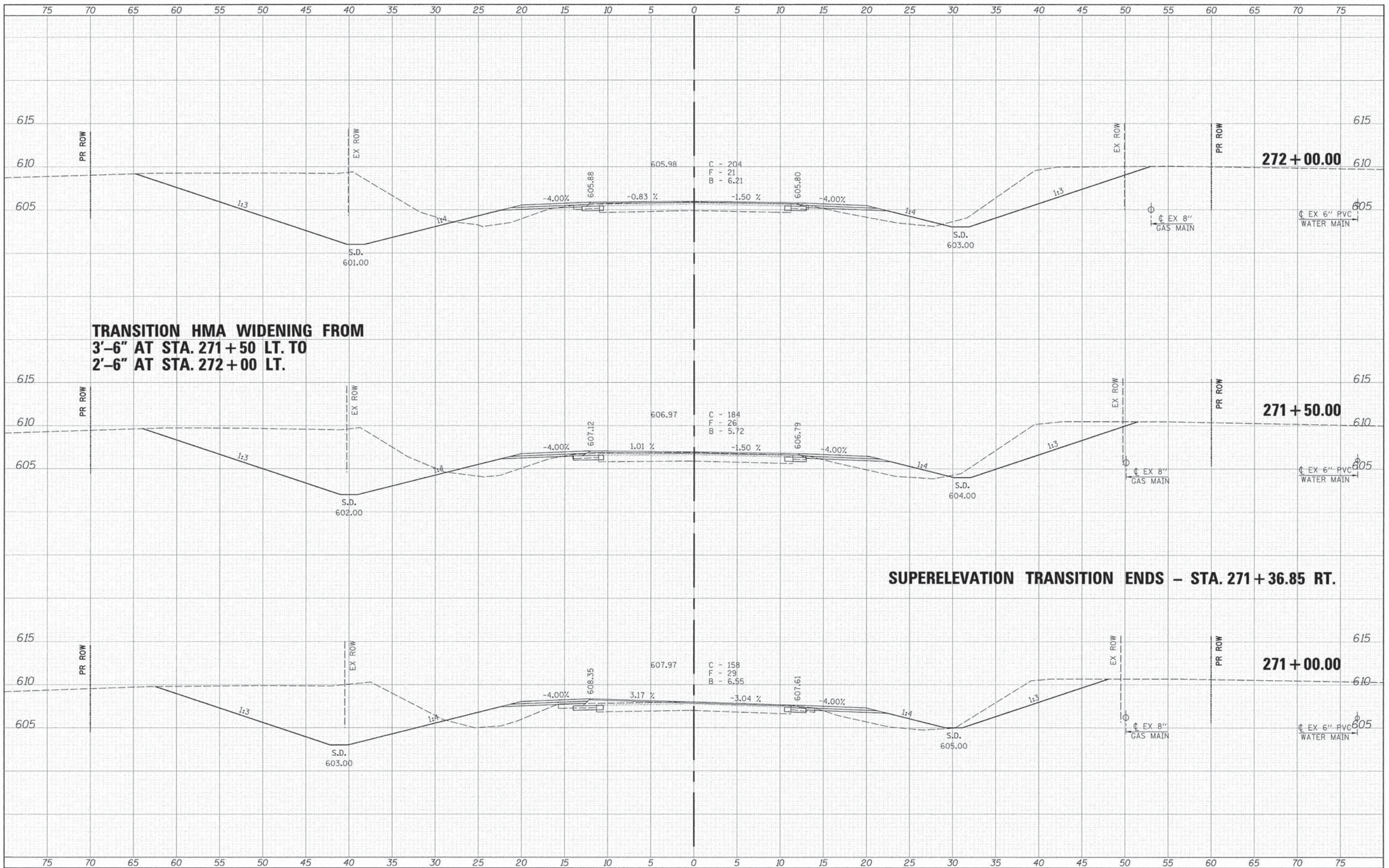
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 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 38 OF 49 SHEETS
 STA. 269+50.00 TO STA. 270+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	57
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 93609		

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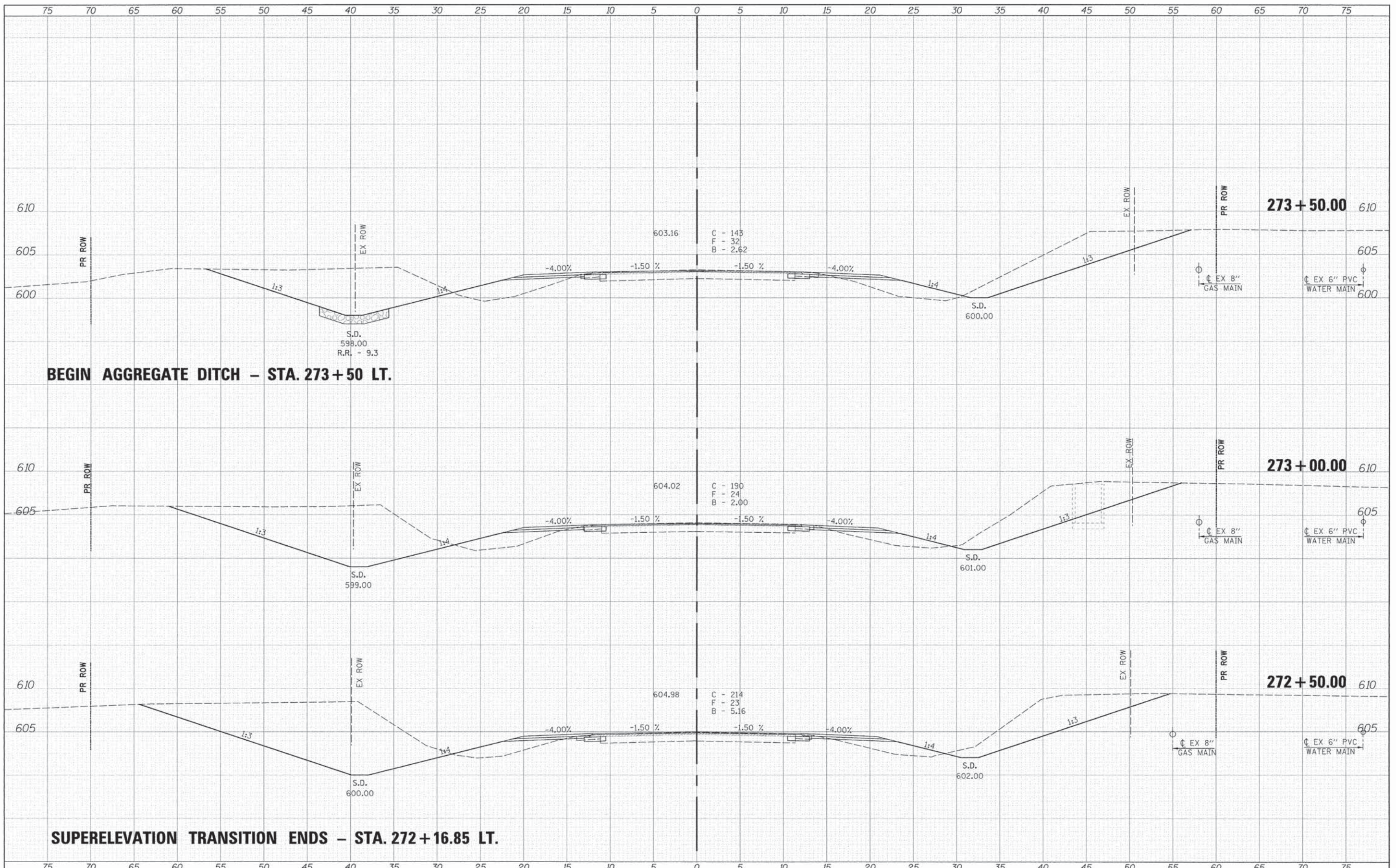
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 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 39 OF 49 SHEETS
 STA. 271+00.00 TO STA. 272+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	58
CONTRACT NO. 93609				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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ORIGINAL SURVEY	
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BEGIN AGGREGATE DITCH - STA. 273+50 LT.

SUPERELEVATION TRANSITION ENDS - STA. 272+16.85 LT.

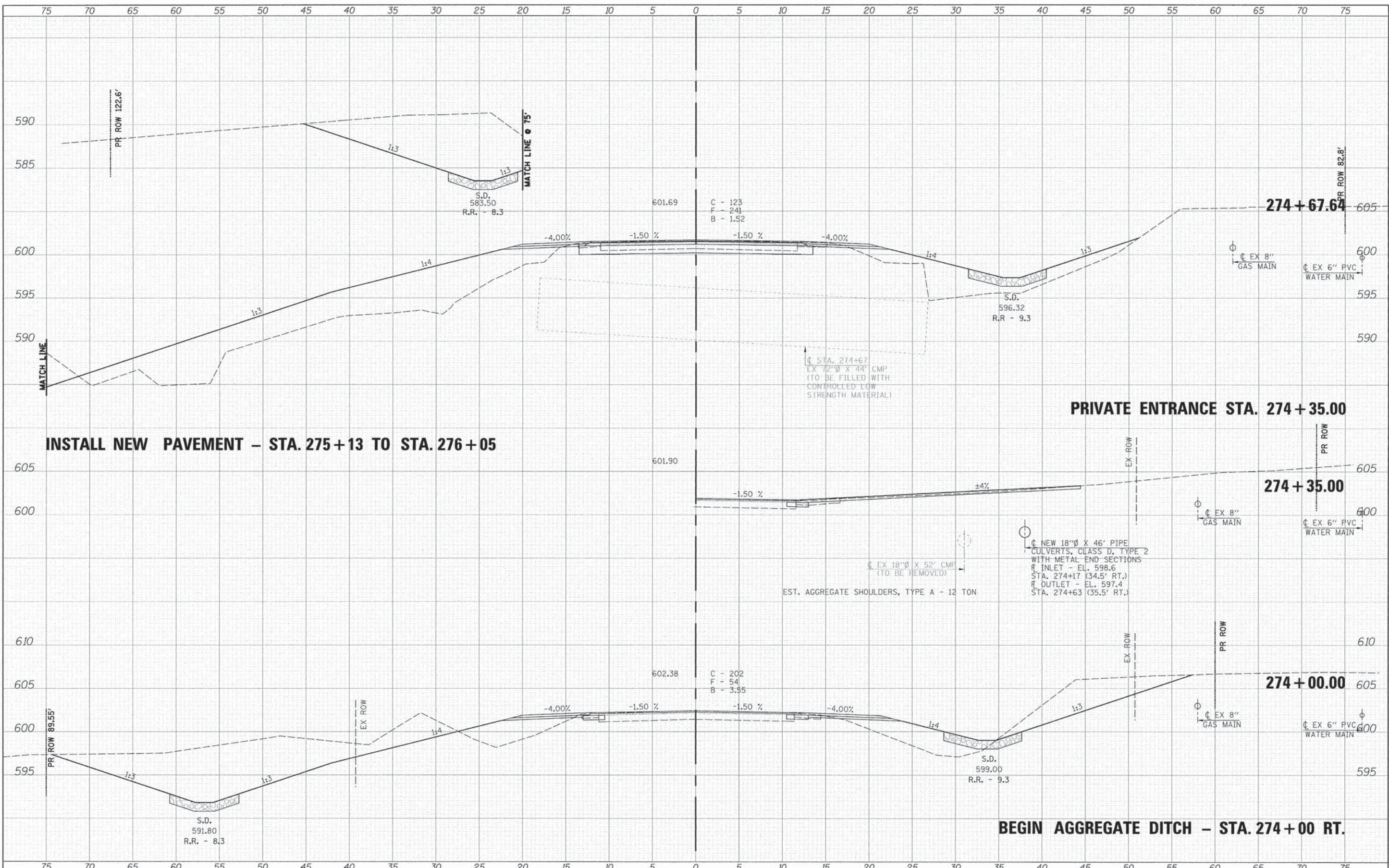
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Allen Henderson & Associates, Inc.
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 No. 184-001907

CROSS SECTIONS		
SCALE: 1" = 5'	SHEET NO. 40 OF 49 SHEETS	STA. 272+50.00 TO STA. 273+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	59
CONTRACT NO. 93609				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



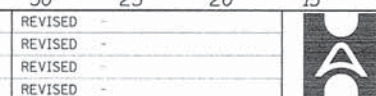
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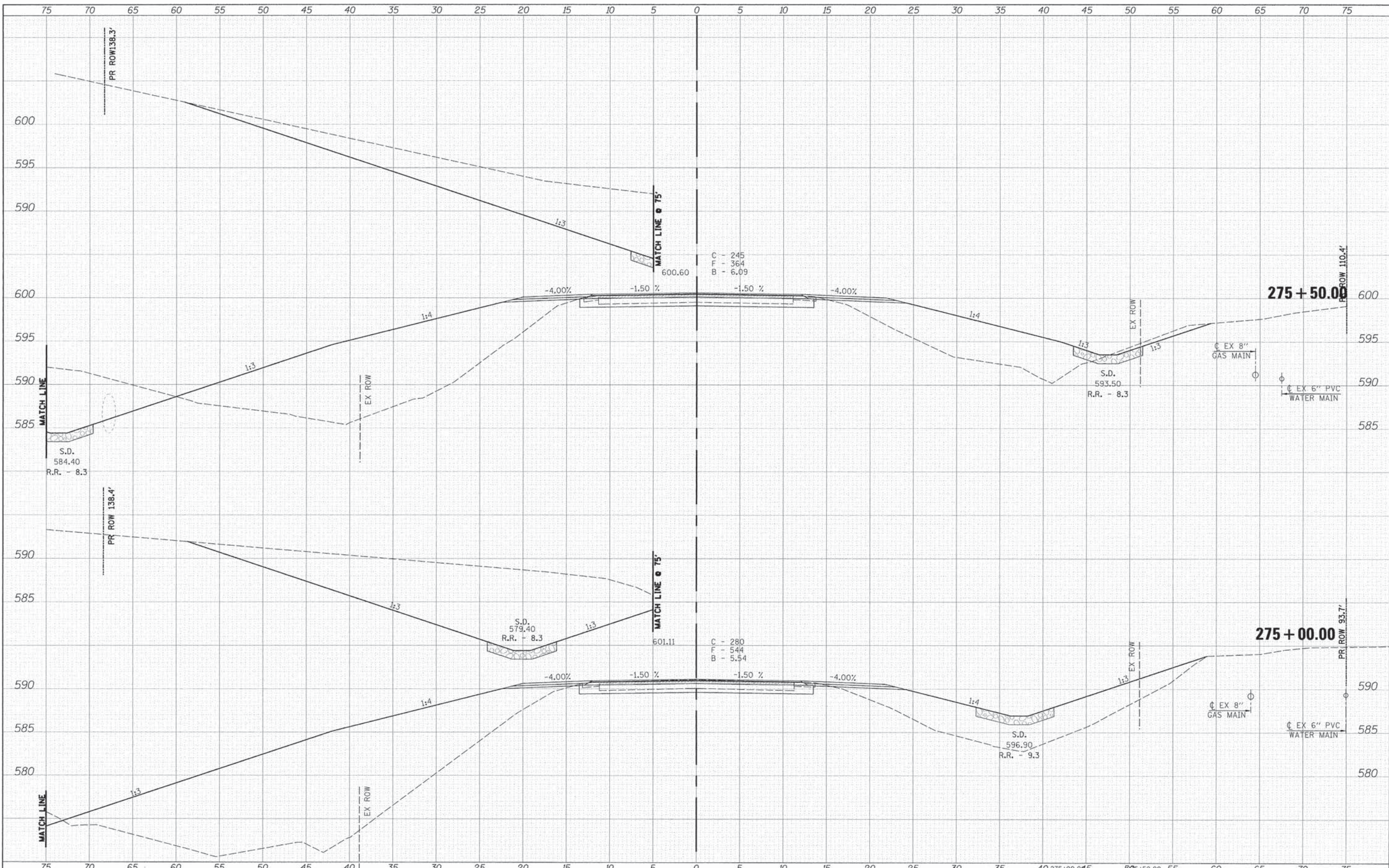
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 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 41 OF 49 SHEETS
 STA. 274+00.00 TO STA. 274+67.64

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	60
CONTRACT NO. 93609				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



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

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 NOTE BOOK: _____
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 PLOT DATE: #DATE#

DESIGNED	REVISOR
DRAWN	REVISION
CHECKED	REVISION
DATE	REVISION

Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

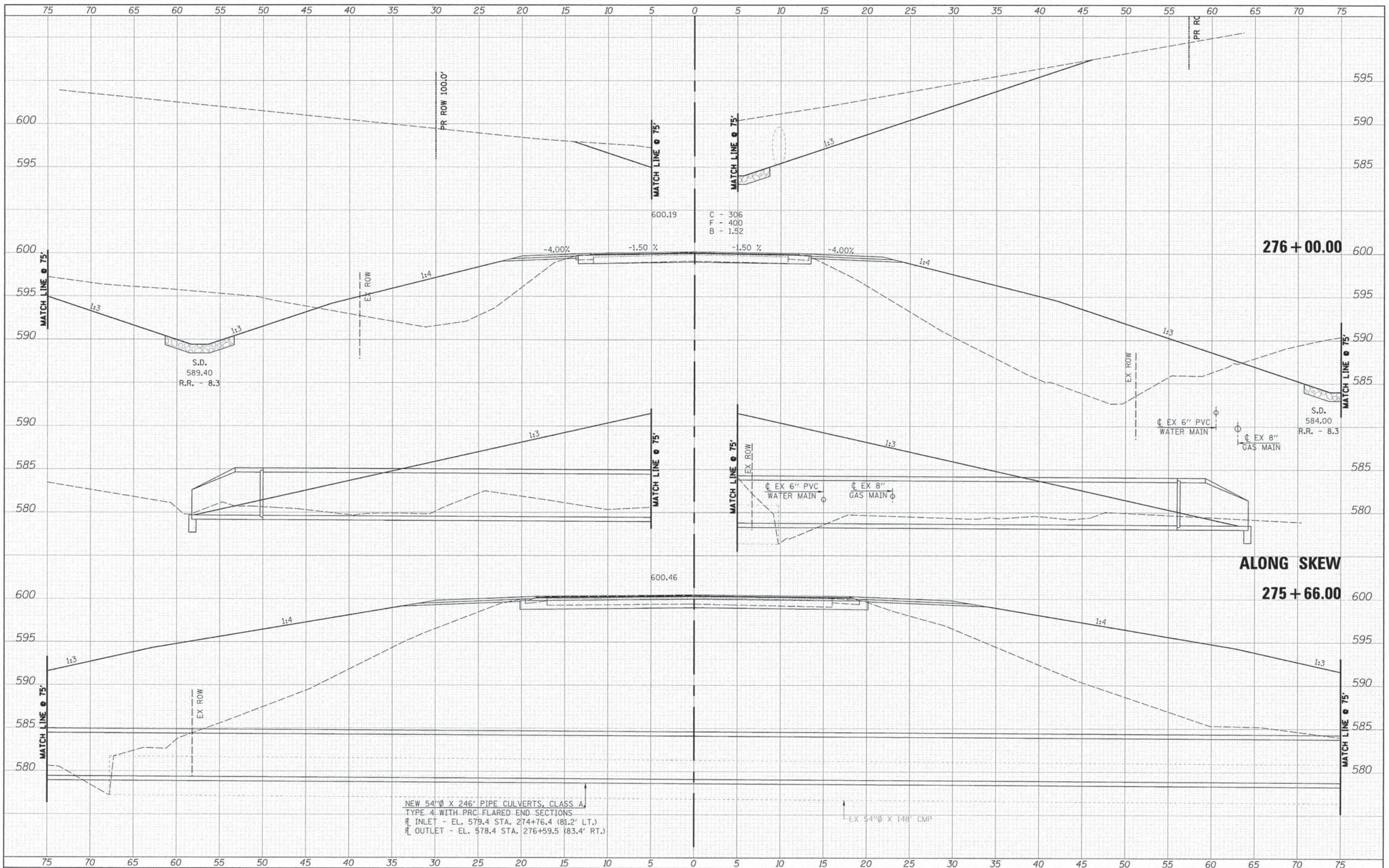
CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 42 OF 49 SHEETS
 STA. _____ TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	61

CONTRACT NO. 93609
 FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT

FILED	DATE
SURVEY	BY
NOTED	
PLATE	
AREAS CHECKED	

FILED	DATE
SURVEY	BY
NOTED	
PLATE	
AREAS CHECKED	



NEW 54"Ø X 246' PIPE CULVERTS, CLASS A
 TYPE 4 WITH PRC FLARED END SECTIONS
 INLET - EL. 579.4 STA. 274+76.4 (81.2' LT.)
 OUTLET - EL. 578.4 STA. 276+59.5 (83.4' RT.)

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 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS

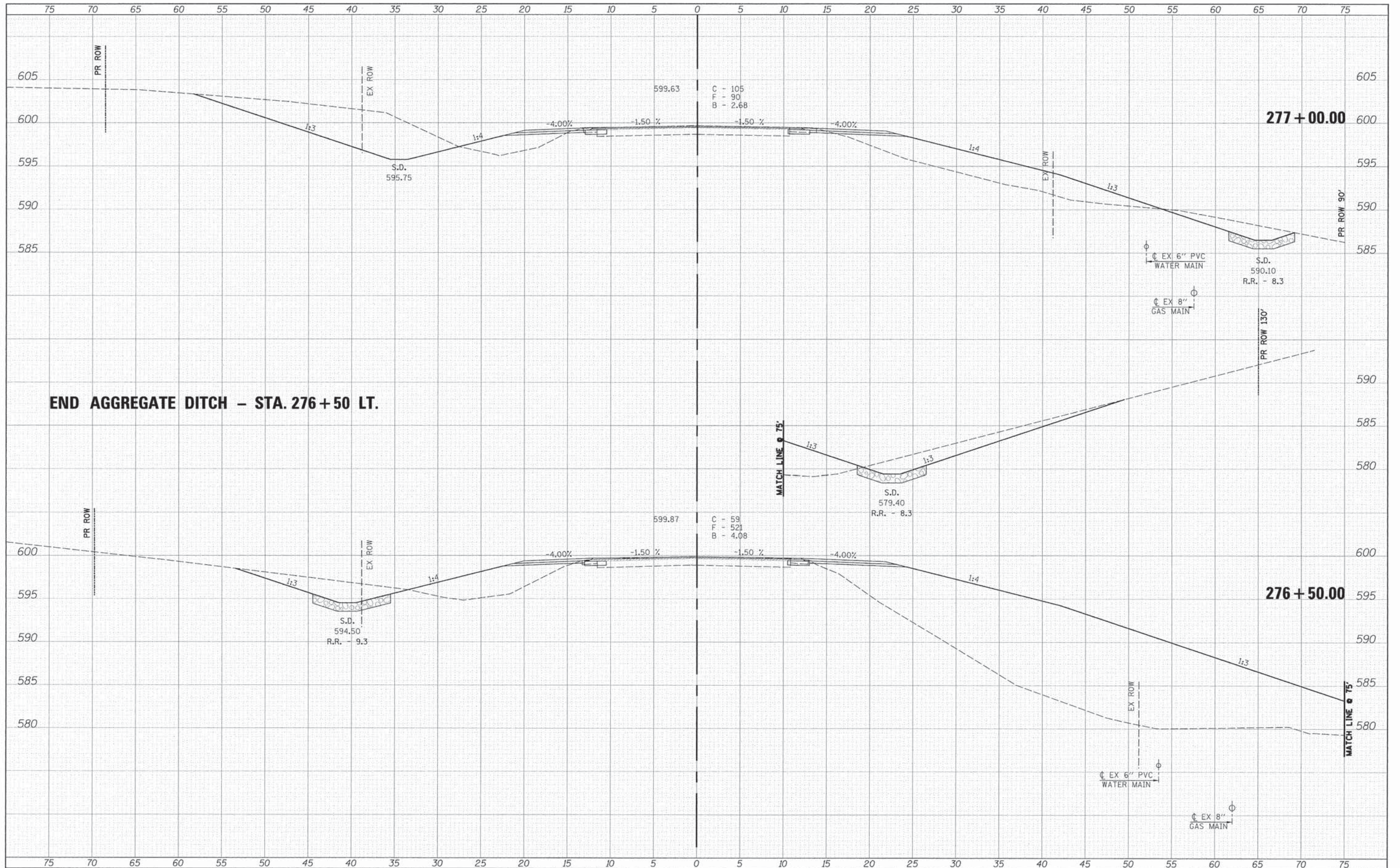
SCALE: 1" = 5' SHEET NO. 43 OF 49 SHEETS STA. 275+66.00 TO STA. 276+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	62
CONTRACT NO. 93609				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

FILE NAME	USER NAME	DESIGNED	REVISED
#FILE#	#USER#	DRAWN	REVISED
		CHECKED	REVISED
		DATE	REVISED

FINAL SURVEY DATE BY
 SURVEY NO. DATE BY
 NOTE BOOK NO. DATE BY
 AREAS CHECKED

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

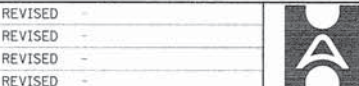


END AGGREGATE DITCH - STA. 276+50 LT.

FILE NAME: #FILE#
 USER NAME: #USER#
 PLOT SCALE: #SCALE#
 PLOT DATE: #DATE#

DESIGNED: _____
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 CHECKED: _____
 DATE: _____

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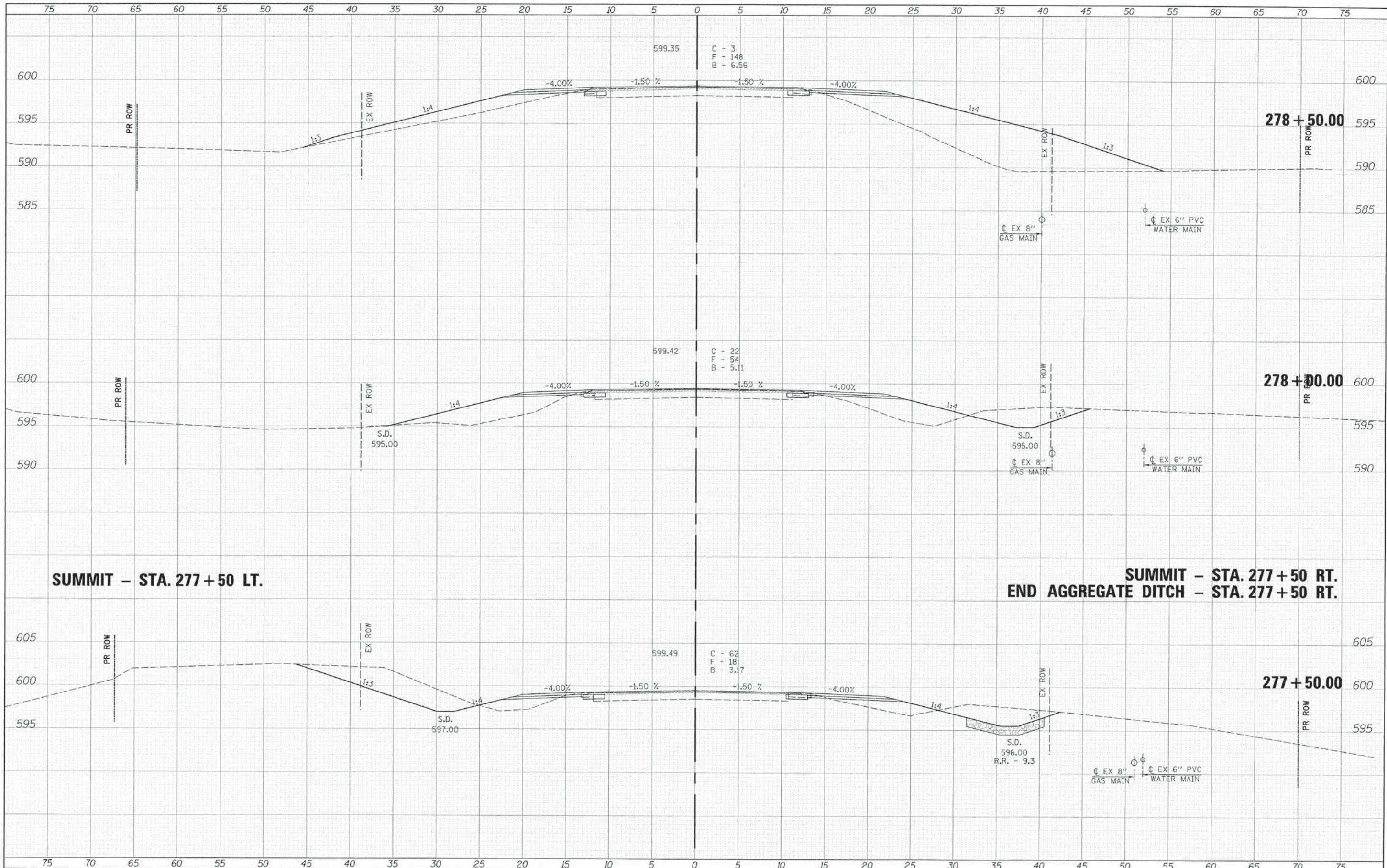
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 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 44 OF 49 SHEETS
 STA. 276+50.00 TO STA. 277+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	63
CONTRACT NO. 93609				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				


DATE _____
 BY _____
 SURVEYED _____
 CHECKED _____
 FINAL SURVEY _____
 NOTE BOOK _____
 AREA CHECKED _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 CHECKED _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 AREA CHECKED _____
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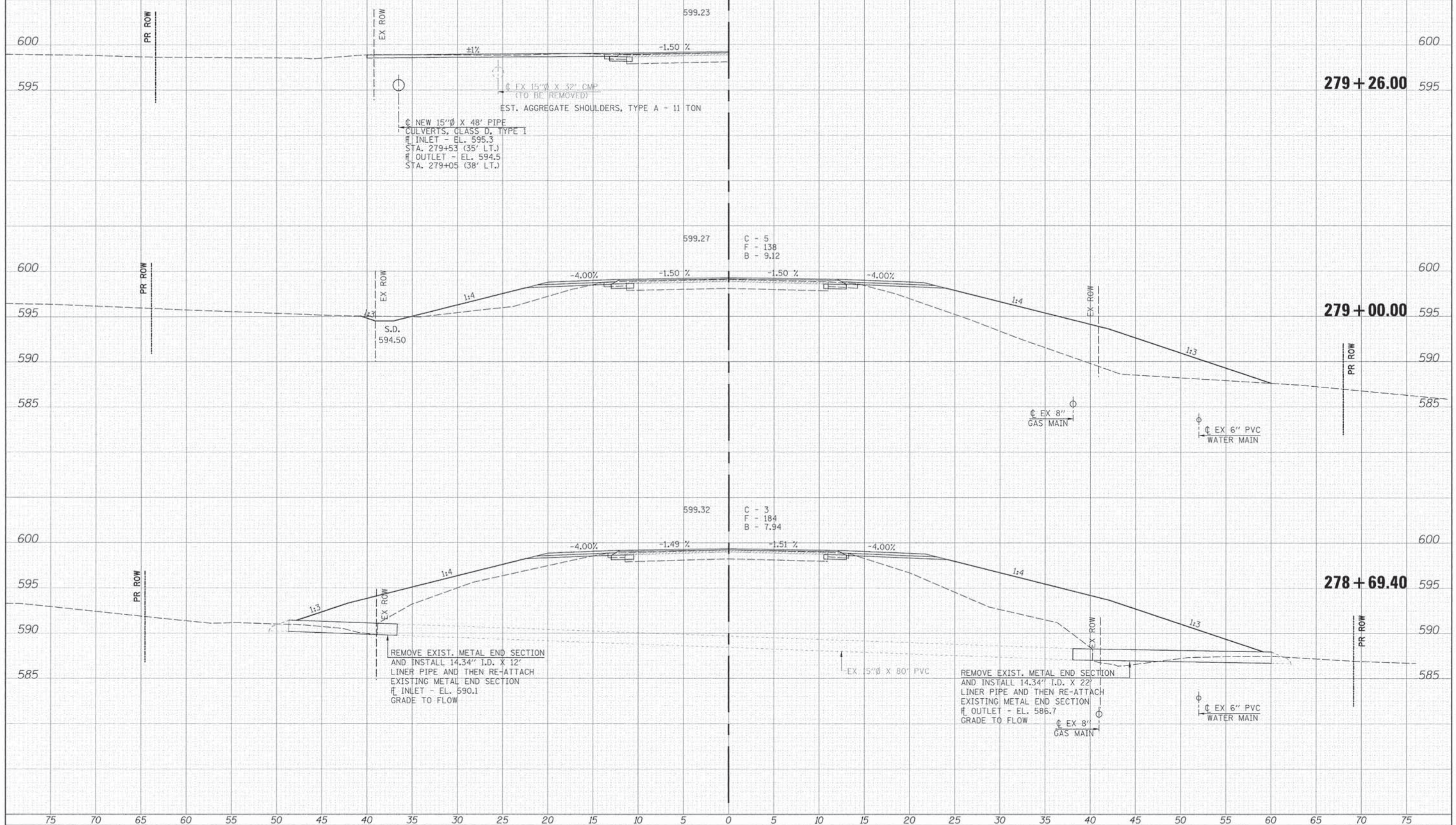
SUMMIT - STA. 277 + 50 LT.

**SUMMIT - STA. 277 + 50 RT.
 END AGGREGATE DITCH - STA. 277 + 50 RT.**

FILE NAME	USER NAME - #USER#	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	PLOT SCALE - #SCALE#	DRAWN -	REVISED -		SCALE: 1" = 5'	SHEET NO. 45 OF 49 SHEETS	STA. 277+50.00 TO STA. 278+50.00	574	08-00056-04-PV	MENARD	68	64
	PLOT DATE - #DATE#	CHECKED -	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 93609	
		DATE -	REVISED -									

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

FIELD ENTRANCE



DATE	
BY	
NO.	
FINAL SUPPLY	
REVISIONS	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SUPPLY	
REVISIONS	
NOTE BOOK	
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AREAS CHECKED	

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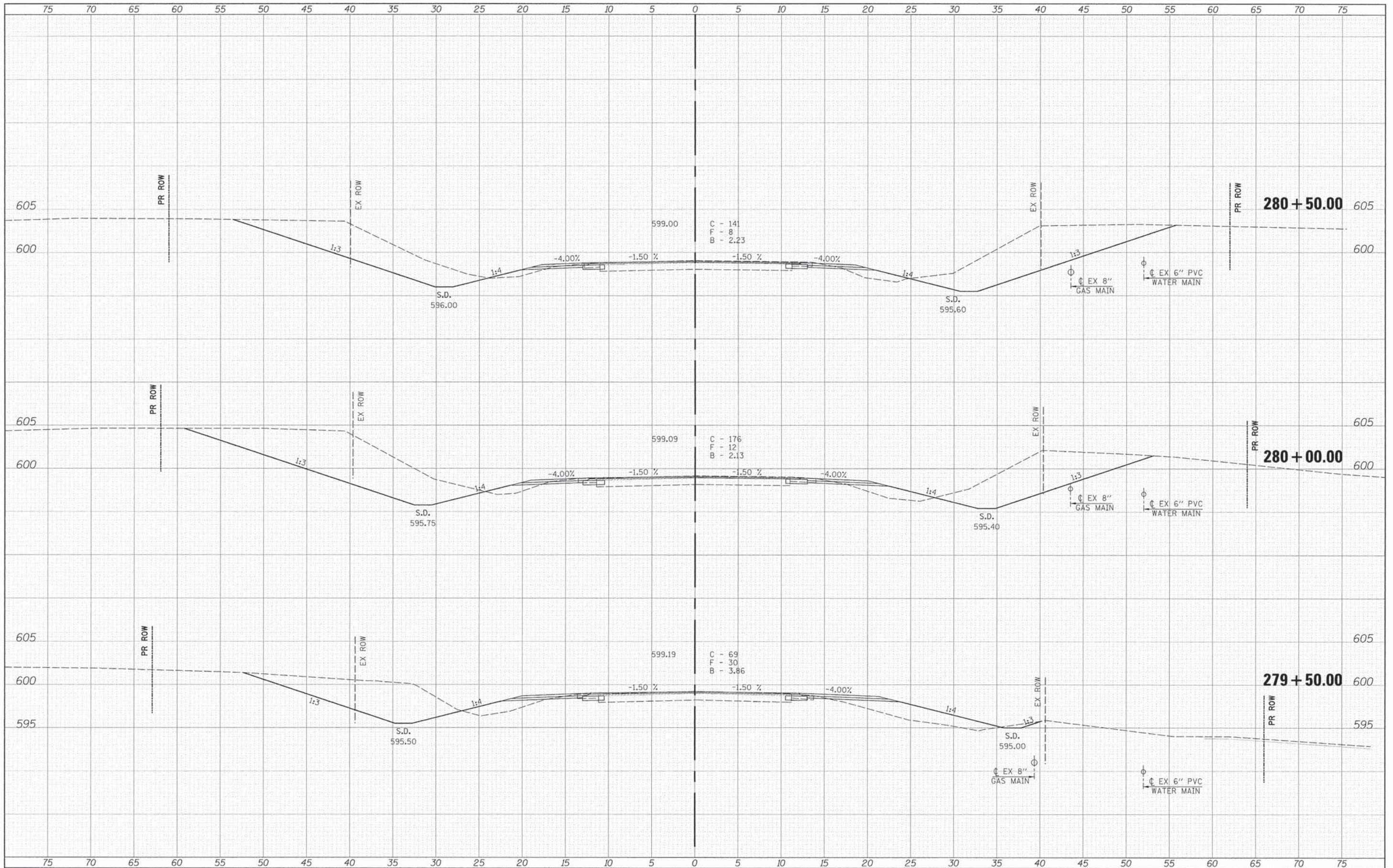
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 No. 184-001907

CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 46 OF 49 SHEETS
 STA. 278+69.40 TO STA. 279+26.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	65
CONTRACT NO. 93609				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
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DESIGNED	
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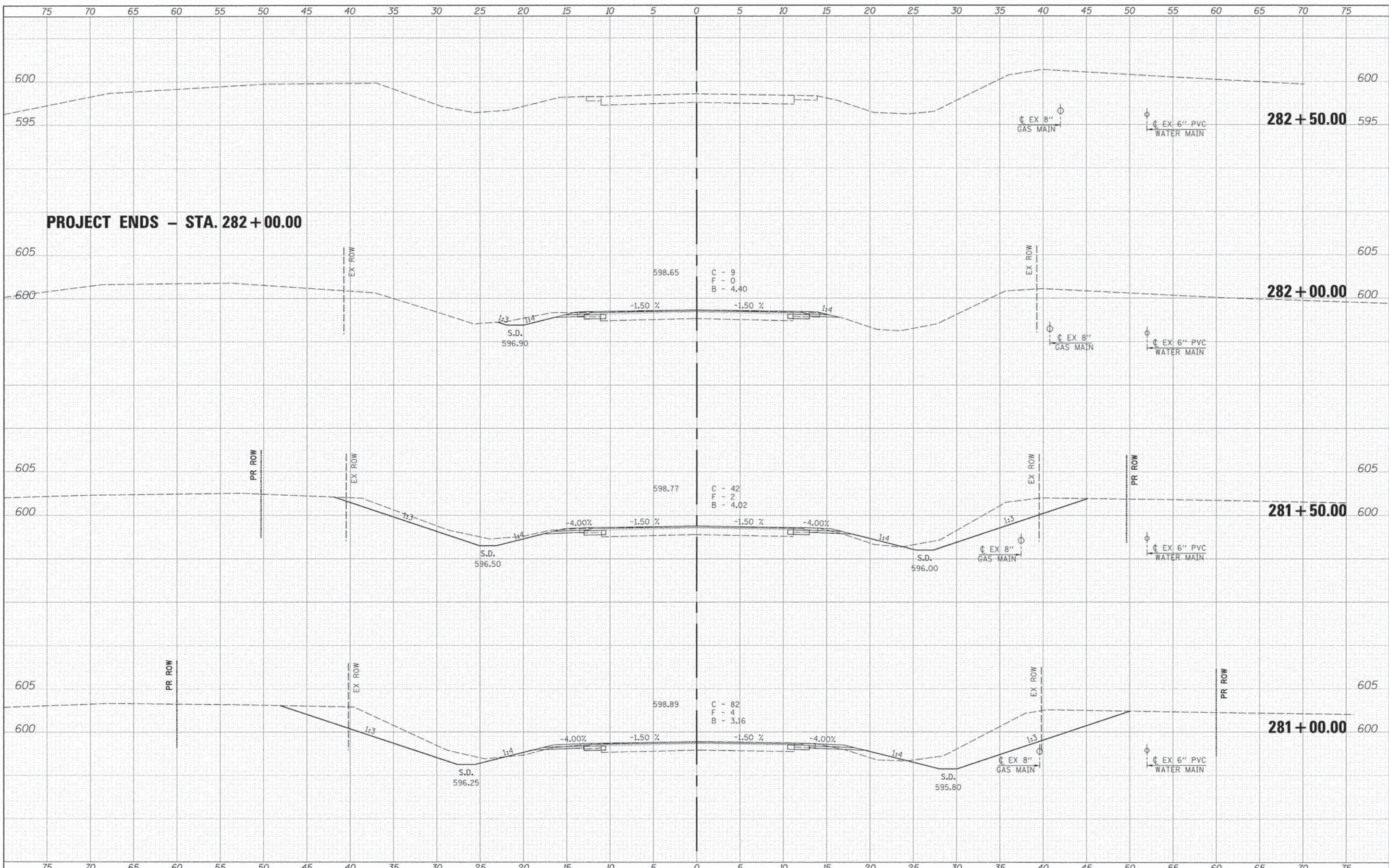
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 No. 184-001907

CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 47 OF 49 SHEETS
STA. 279+50.00 TO STA. 280+50.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	66
CONTRACT NO. 93609				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
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DATE	
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NO. 1000	
AREAS CHECKED	



PROJECT ENDS - STA. 282+00.00

FILE NAME	#FILFLA
USER NAME	#USER#
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DRAWN	-
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DATE	-

REVIS	-
REVIS	-
REVIS	-
REVIS	-

DESIGNED	-
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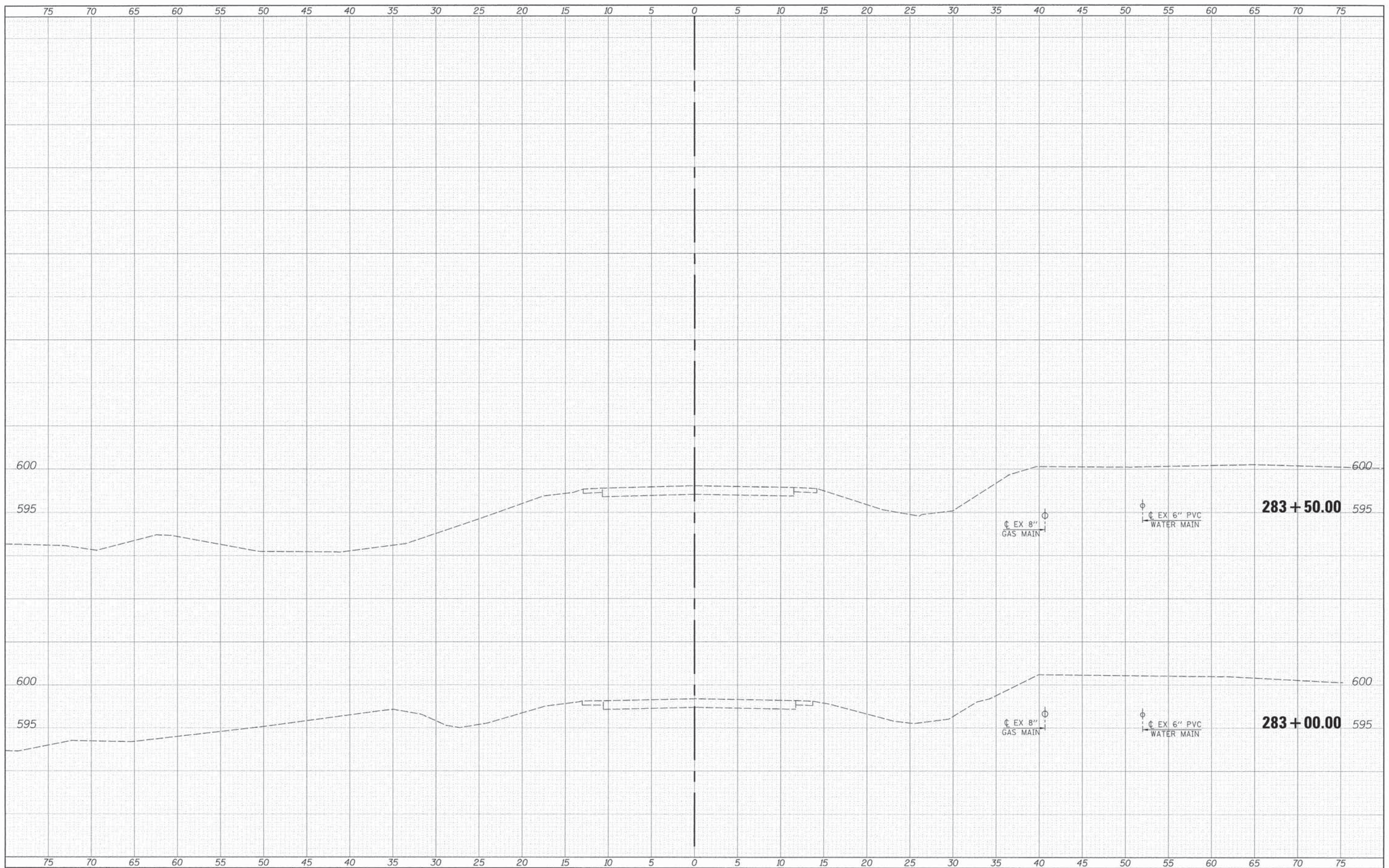
SCALE: 1" = 5'	
SHEET NO. 48 OF 49 SHEETS	STA. 281+00.00 TO STA. 282+50.00

CROSS SECTIONS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	67
CONTRACT NO. 93609				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

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

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



FILE NAME
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USER NAME = #USER#
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CHECKED -
DATE -



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No. 184-001907

CROSS SECTIONS
SCALE: 1" = 5'
SHEET NO. 49 OF 49 SHEETS
STA. 283+00.00 TO STA. 283+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	08-00056-04-PV	MENARD	68	68
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

283 + 50.00 595

283 + 00.00 595

CONTRACT NO. **93609**