

INDEX OF SHEETS

03-10-2023 LETTING ITEM 150

SHEET NO.	DESCRIPTION
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4.	TYPICAL CROSS SECTIONS
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10.	PAVEMENT MARKING DETAIL
11-16.	CULVERT PLANS
17-30.	STATION CROSS SECTIONS - SCHLAPP ROAD
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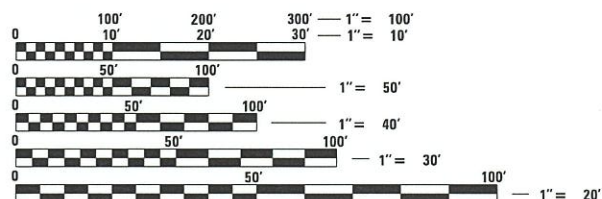
HIGHWAY STANDARDS:

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

COMED
ONE LINCOLN CENTRE
SUITE 600
OAKBROOK TERRACE, IL 60181
ATTN: KYLE ISEK
KYLE.ISEK@COMED.COM
630-437-4855

AT&T
1000 COMMERCE DRIVE
OAK BROOK, IL 60523
ATTN: STEVEN PESOLA
SP9652@ATT.COM
815-412-5255



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.

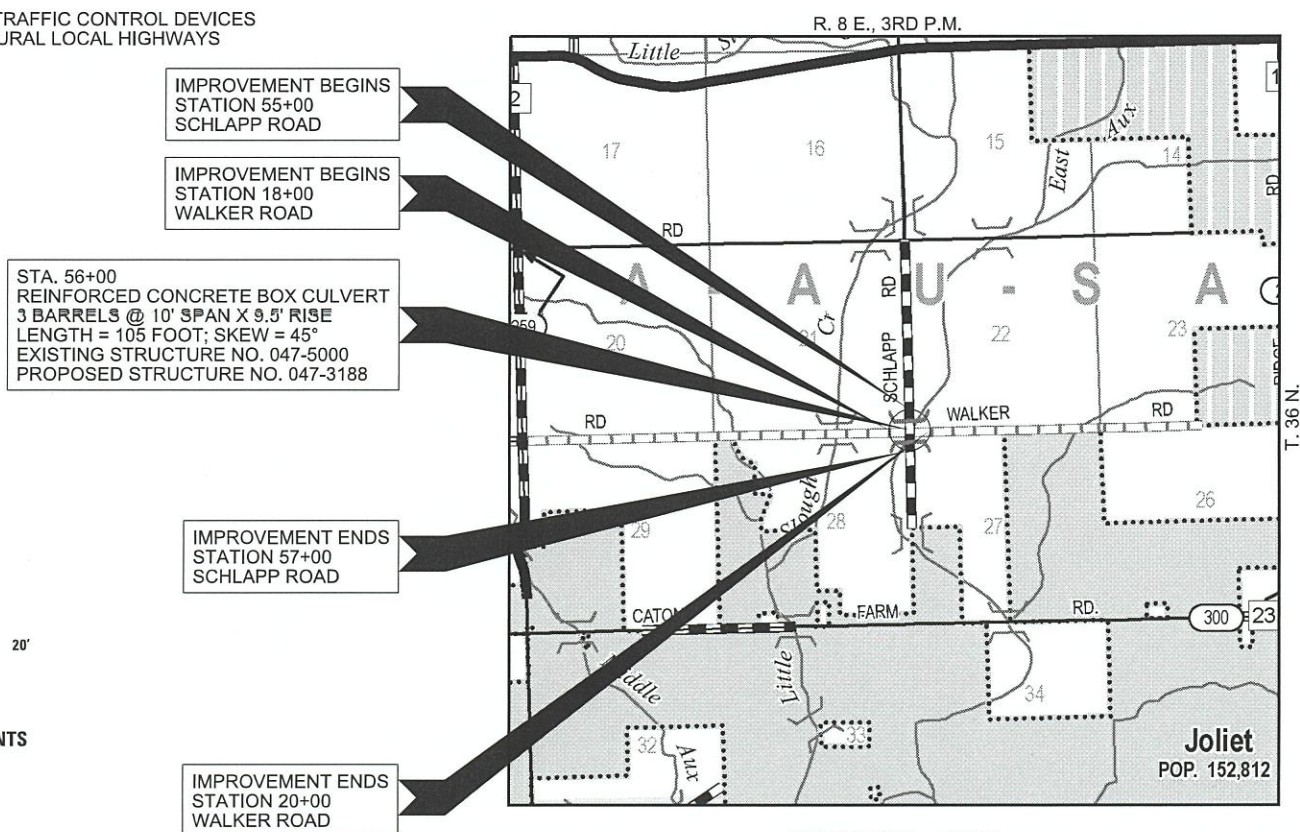
FUNCTIONAL CLASSIFICATION: LOCAL ROAD
DESIGN SPEED: 50 MPH
DESIGN TRAFFIC: 1000 ADT

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM – BRIDGE**

**PROJECT 19N1(078)
SECTION 21-07127-00-BR
NA-AU-SAY TOWNSHIP
KENDALL COUNTY
SCHLAPP ROAD /T.R. 108
EXISTING STRUCTURE NO. 047-5000
PROPOSED STRUCTURE NO. 047-3188
C-93-001-23**



LOCATION MAP

APPROXIMATE SCALE: 0 1/2 MILE

NET LENGTH SCHLAPP RD. = 200 FEET = 0.038 MILES
NET LENGTH WALKER RD. = 200 FEET = 0.038 MILES
GROSS LENGTH = 400 FEET = 0.076 MILES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 108	21-07127-00-BR	KENDALL	39	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 87795	



LOCATION OF SECTION INDICATED THIS: - [Symbol]

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED *DECEMBER 19, 2022*

[Signature]
COUNTY ENGINEER

APPROVED *December 19, 2022*

[Signature]
TOWNSHIP COMMISSIONER

PASSED *JANUARY 5, 2023*

Releasing For Bid Based on Limited Review
DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS
[Signature]
JANUARY 5, 2023
REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WARNING

CALL 811 BEFORE YOU DIG
DIG NO: A220381025

DATE: 12/15/2022

EXPIRES: 11/30/2023

HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlenr.com

184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL
20200100	EARTH EXCAVATION	CU YD	445
20700110	POROUS GRANULAR EMBANKMENT	TON	1,690
20800150	TRENCH BACKFILL	CU YD	44
25100115	MULCH, METHOD 2	ACRE	1.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100
28000500	INLET AND PIPE PROTECTION	EACH	5
28100207	STONE RIPRAP, CLASS A4	TON	310
28200200	FILTER FABRIC	SQ YD	410
35100100	AGGREGATE BASE COURSE, TYPE A	TONS	956
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	132
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,145
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	299
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	187
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	112
44000100	PAVEMENT REMOVAL	SQ YD	1,266
48101200	AGGREGATE SHOULDERS, TYPE B	TON	73
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	252
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	119,840
50900205	STEEL RAILING, TYPE S1	FOOT	60
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	473.1
54213483	END SECTIONS 48"	EACH	1
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	74
542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	72
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	80
542D0253	PIPE CULVERTS, CLASS D, TYPE 1 48"	FOOT	78
60100945	PIPE DRAINS 12"	FOOT	20
67100100	MOBILIZATION	L SUM	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	431
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	404
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
X7011006	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1

^ SEE SPECIAL PROVISIONS
SPECIALTY ITEMS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2022", THE LATEST REVISION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE ILLINOIS SUPPLEMENT, THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- 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 MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

STONE RIPRAP	1.75 TON/CU YD
AGGREGATE SURFACE COURSE	2.05 TON/CU YD
HOT-MIX ASPHALT	112 LB/SQ YD/IN
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LB/SQ FT
BITUMINOUS MATERIALS (TACK COAT)	0.025 LB/SQ FT
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE
POROUS GRANULAR EMBANKMENT	1.75 TON/CU YD

FILE NAME = 210137-911-summary.dgn	USER NAME = dfoley	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS KENDALL COUNTY HIGHWAY DEPARTMENT	SUMMARY OF QUANTITIES AND GENERAL NOTES	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALES	DRAWN - R.D.H.	REVISED -			108	21-07127-00-BR	KENDALL	39	2
PLOT DATE = 12/22/2022	DATE - 12/15/2022	CHECKED - S.W.M.	REVISED -			NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		ILLINOIS
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			

EARTHWORK SCHEDULE								
LOCATION	EARTH EXCAVATION	MISC. EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE	
	20200100	**						
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.	
SCHLAPP ROAD								
STA. 54+50 TO 55+50	73		25.00%	100.00%	55	54	1	
STA. 56+50 TO 57+50	106		25.00%	100.00%	80	59	21	
WALKER ROAD								
STA. 17+00 TO 18+50	141		25.00%	100.00%	106	59	47	
STA. 19+50 TO 21+00	121		25.00%	100.00%	91	89	2	
EXCAVATION FOR CULVERT P.G.E.		525	25.00%	70.00%	276	0	276	
TOTAL	441	525			608	261	347	
USE	445						350	
** COST INCLUDED WITH CONCRETE BOX CULVERT						WASTE 350 CU YDS		

PAVEMENT MARKING SCHEDULE			
LOCATION	PAINT PAVEMENT MARKING - LINE 4"		
	SOLID EDGE LINE WHITE	SOLID NO PASSING YELLOW	SKIP DASH CENTERLINE YELLOW
	FOOT	FOOT	FOOT
SCHLAPP ROAD			
LT. STA. 55+00 TO STA. 55+60	60		
CL. STA. 55+10 TO STA. 55+60			20
RT. STA. 55+00 TO STA. 55+60	60		
LT. STA. 56+40 TO STA. 57+00	60		
CL. STA. 56+40 TO STA. 56+90			20
RT. STA. 56+40 TO STA. 57+00	60		
WALKER ROAD			
LT. STA. 17+73 TO STA. 18+60	87		
CL. STA. 17+70 TO STA. 18+60		87	30
RT. STA. 17+73 TO STA. 18+60	87		
LT. STA. 19+40 TO STA. 20+00	60		
CL. STA. 19+40 TO STA. 19+90			20
RT. STA. 19+40 TO STA. 20+00	60		
78001110			
SUBTOTAL	294	87	50
TOTAL	431		

SEEDING AND EROSION CONTROL SCHEDULE				
LOCATION	MULCH, METHOD 2 *	TEMPORARY EROSION CONTROL SEEDING *	INLET AND PIPE PROTECTION	SEEDING CLASS 2, SPECIAL
	25100115	28000250	28000500	X2501000
	ACRE	POUND	EACH	ACRE
LT. STA. 54+50 TO STA. 56+00	0.24	24	1	0.12
RT. STA. 54+50 TO STA. 56+00	0.28	28	2	0.14
LT. STA. 56+00 TO STA. 57+50	0.30	30	1	0.15
RT. STA. 56+00 TO STA. 57+50	0.18	18	1	0.09
TOTAL	1.0	100	5	0.50

* QUANTITY FOR 2 APPLICATIONS

ROADWAY SCHEDULE								
LOCATION	AGGREGATE BASE COURSE TYPE A,	AGGREGATE SURFACE COURSE TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE IL 19.0, N50	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50	PAVEMENT REMOVAL	AGGREGATE SHOULDERS, TYPE B
	35100100	40200800	40600275	40600290	40603080	40604050	44000100	48101200
	TONS	TON	POUND	POUND	TON	TON	SQ YD	TON
SCHLAPP ROAD								
STA. 55+00 TO 57+00	413		1361	136	85	51	605	
WALKER ROAD								
STA. 18+00 TO 18+85.50	270		891	82	51	30	335	38
STA. 19+14.50 TO 20+00	273		893	81	51	31	326	35
ENTRANCES		132						
TOTAL	956	132	3145	299	187	112	1266	73

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
LOCATIONS(S)	SCHLAPP RD. AND WALKER RD.	SCHLAPP RD. AND WALKER RD.
MIXTURE USE(S):	HMA SURFACE COURSE	HMA BINDER COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ N50	4% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0
FRICION AGGREGATE:	MIXTURE C	NONE
DENSITY TEST METHOD	CORES	CORES
MIXTURE WEIGHT:	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA

PIPE CULVERT SCHEDULE									
LOCATION	TRENCH BACKFILL	PIPE REMOVAL	PIPE CULVERTS, CLASS A		PIPE CULVERTS, CLASS D		END SECTIONS	PRECAST RC FLARED END SECTIONS	
			TYPE 1	TYPE 2	TYPE 1	TYPE 2		18"	30"
			30"	18"	18"	48"		48"	18"
SCHLAPP ROAD									
CL. STA. 56+75	22	54		72				1	
RT. STA. 57+00		38			40				
WALKER ROAD									
LT. STA. 18+00		30			40				
CL. STA. 18+28	22	60	74						1
LT. STA. 20+20		70				78	1		
TOTAL	44	252	74	72	80	78	1	1	1

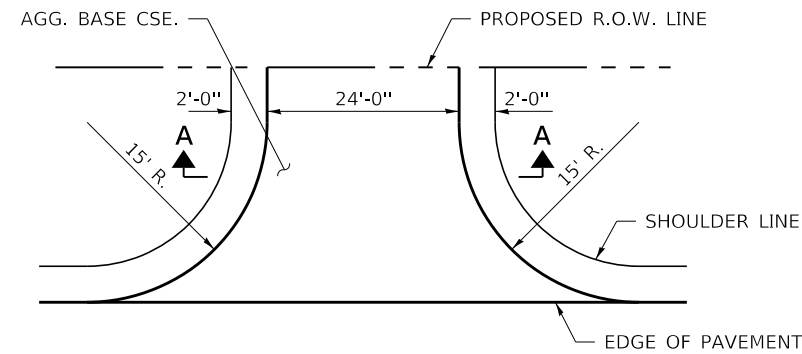
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HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62710 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -
	PLOT DATE = 12/22/2022	CHECKED - S.W.M.	REVISED -
		DATE - 12/15/2022	REVISED -

STATE OF ILLINOIS
KENDALL COUNTY HIGHWAY DEPARTMENT

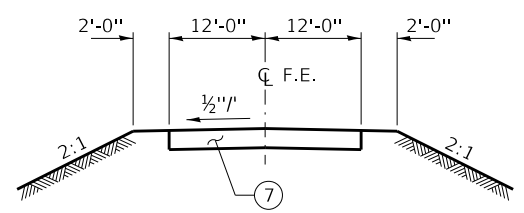
SCHEDULE OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	3
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
		ILLINOIS FED. AID PROJECT 19N1(078)		

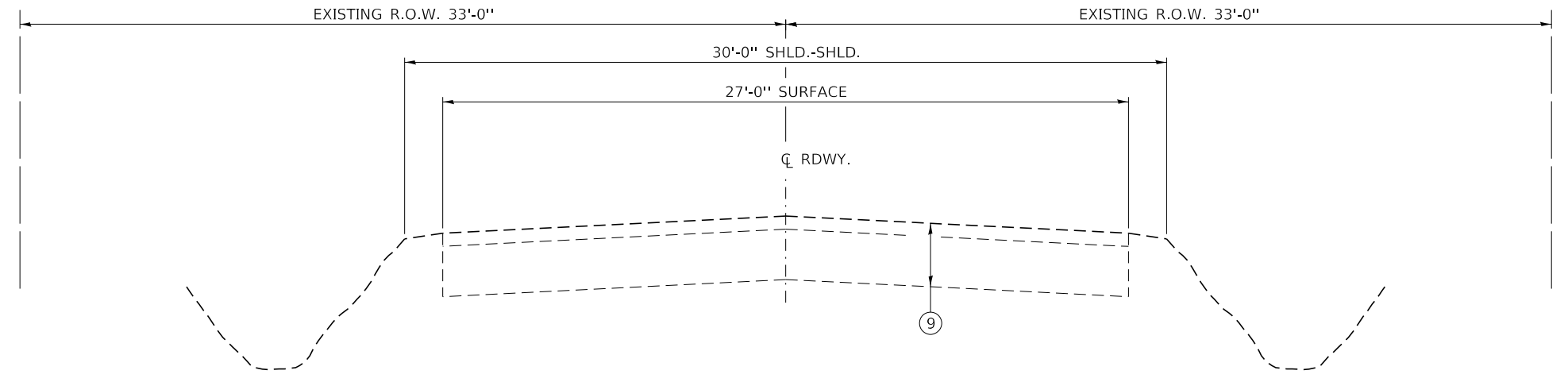


FIELD ENTRANCE DETAIL



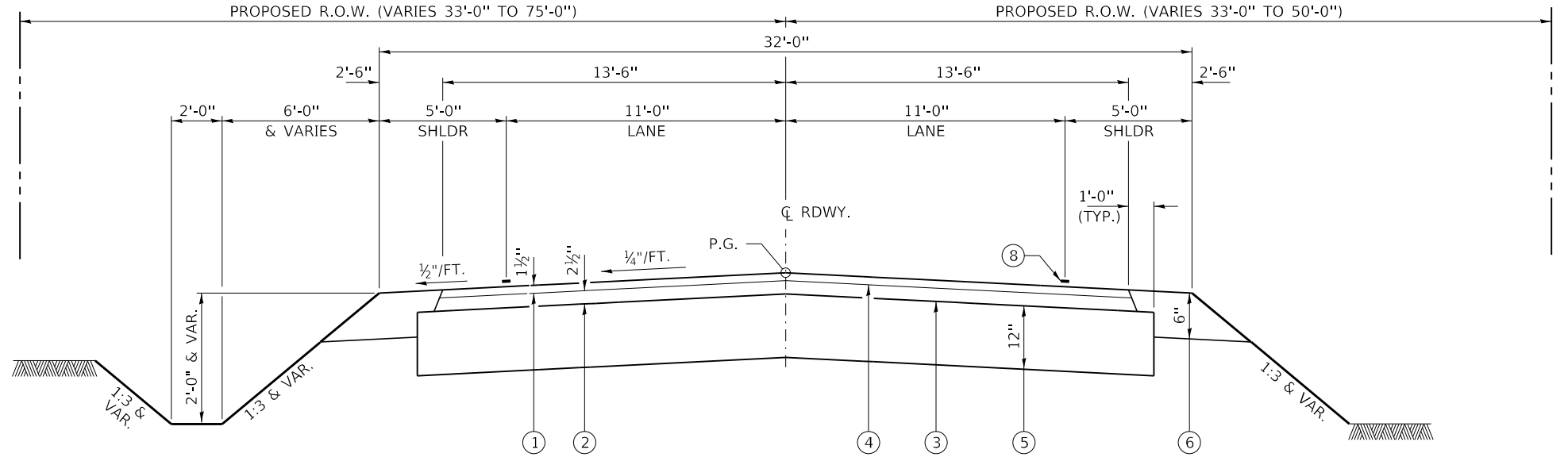
SECTION A-A

LT. STA. 18+00
 RT. STA. 18+13
 LT. STA. 20+20
 RT. STA. 57+00



EXISTING TYPICAL CROSS SECTION

SCHLAPP RD. STA. 55+00 TO STA. 57+00
 WALKER RD. STA. 18+00 TO STA. 20+00



PROPOSED TYPICAL CROSS SECTION

SCHLAPP RD. STA. 55+00 TO STA. 57+00
 WALKER RD. STA. 18+00 TO STA. 20+00

LEGEND

- ① HMA SURFACE COURSE, IL-9.5, MIX C, N50 (1½" THICKNESS)
- ② HMA BINDER COURSE, IL-19.0, N50 (2½" THICKNESS)
- ③ BITUMINOUS MATERIALS (PRIME COAT)
- ④ BITUMINOUS MATERIALS (TACK COAT)
- ⑤ AGGREGATE BASE COURSE, TYPE A (12")
- ⑥ AGGREGATE SHOULDERS, TYPE B (6")
- ⑦ AGGREGATE SURFACE COURSE, TYPE B (6")
- ⑧ PAVEMENT MARKING LINE, 4"
- ⑨ EXISTING H.M.A. (4") ON AGGREGATE BASE (8")

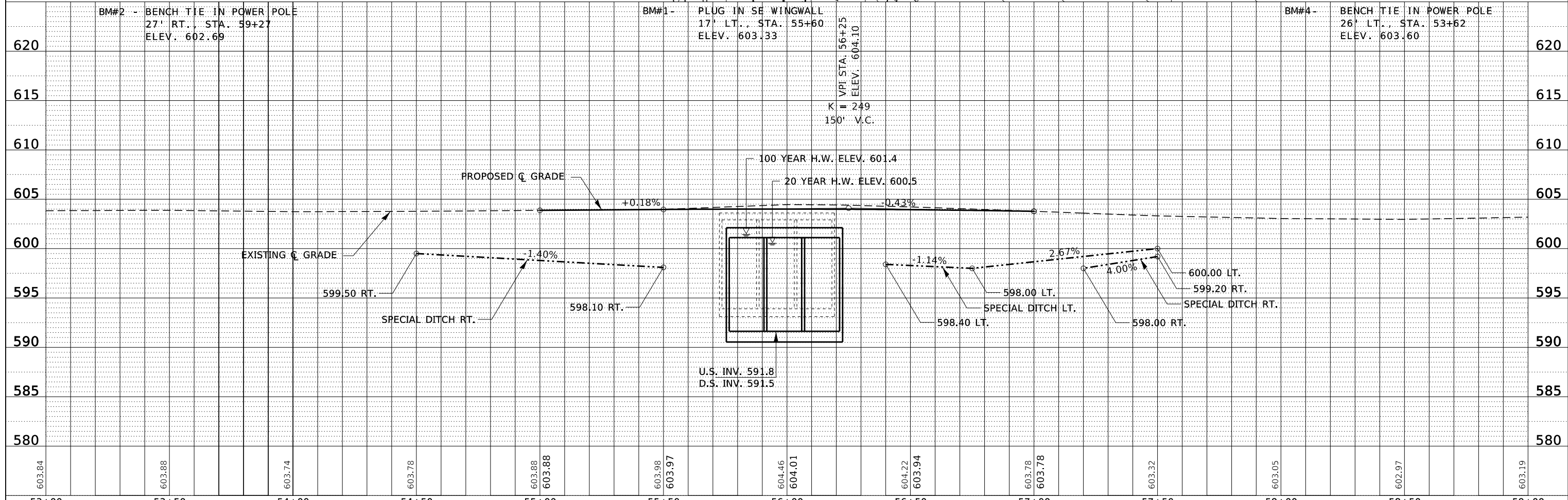
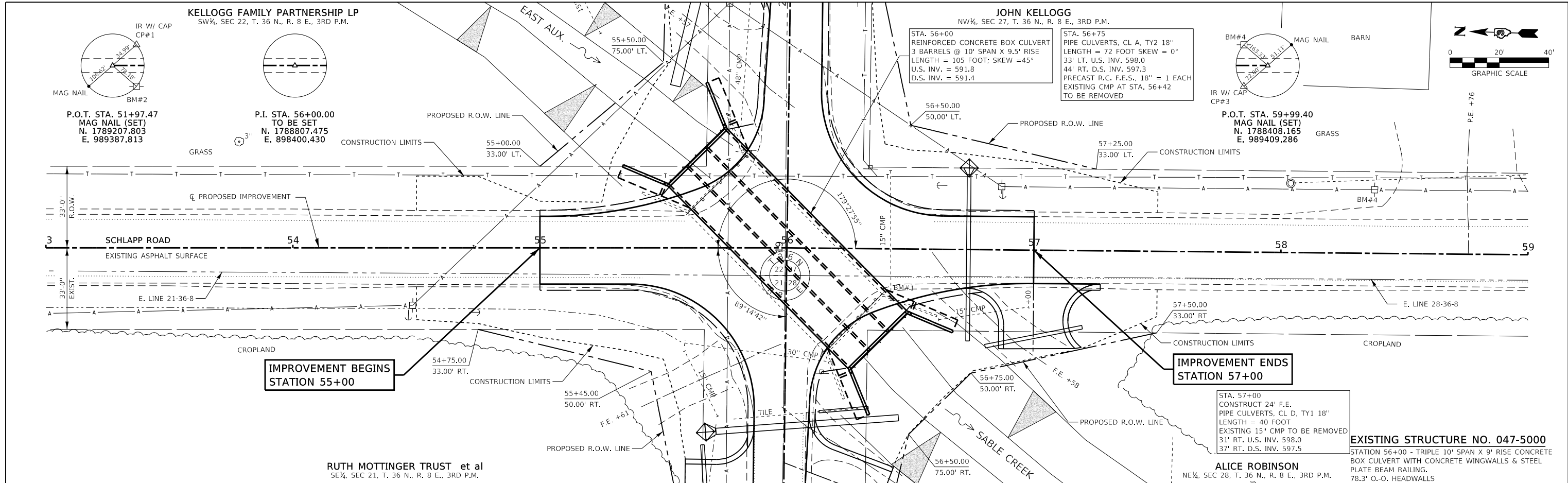
SUGGESTED CUT SECTION
 CONSTRUCT AS SHOWN IN
 STATION CROSS SECTIONS

SUGGESTED FILL SECTION
 CONSTRUCT AS SHOWN IN
 STATION CROSS SECTIONS

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HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE = \$SCALES	DRAWN - R.D.H.	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	108	21-07127-00-BR	KENDALL	39	4
	PLOT DATE = 12/22/2022	CHECKED - S.W.M.	REVISED -					NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
		DATE - 12/15/2022	REVISED -					ILLINOIS FED. AID PROJECT 19N1(078)				

DATE	
BY	
PLAN	
REVIEWED	
PLOTTED	
ALIGNED	
CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
FILE NAME	

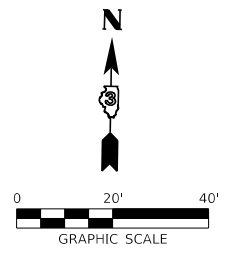
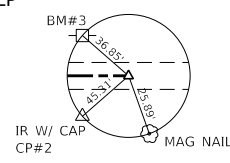
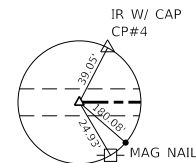
DATE	
BY	
PROFILE	
REVIEWED	
PLOTTED	
GRADES CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE NOTATING CHRD	



53+00	53+50	54+00	54+50	55+00	55+50	56+00	56+50	57+00	57+50	58+00	58+50	59+00					
603.84	603.88	603.74	603.78	603.88	603.88	603.98	603.97	604.46	604.01	604.22	603.94	603.78	603.78	603.32	603.05	602.97	603.19

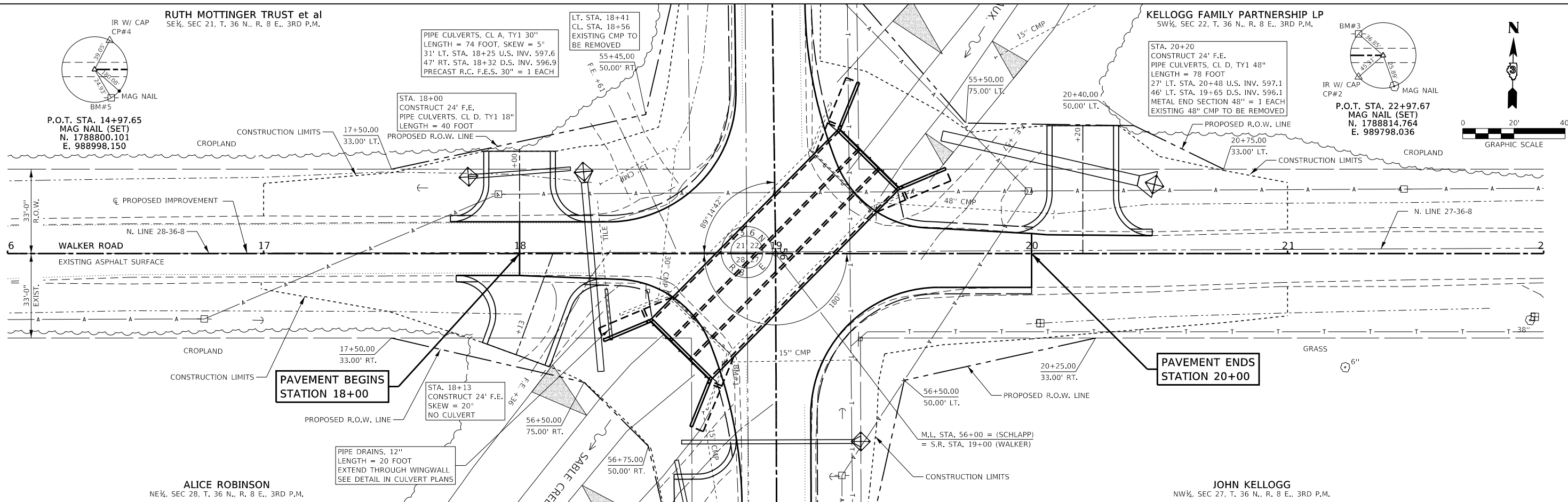
RUTH MOTTINGER TRUST et al
SE¼, SEC 21, T. 36 N., R. 8 E., 3RD P.M.

KELLOGG FAMILY PARTNERSHIP LP
SW¼, SEC 22, T. 36 N., R. 8 E., 3RD P.M.



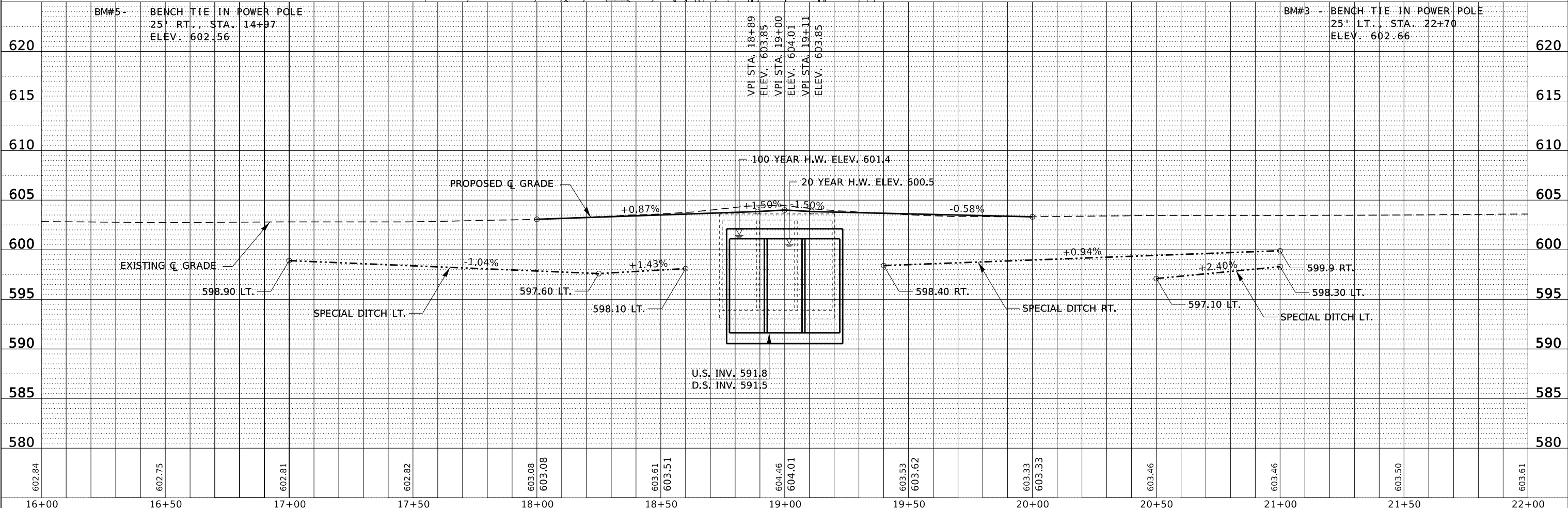
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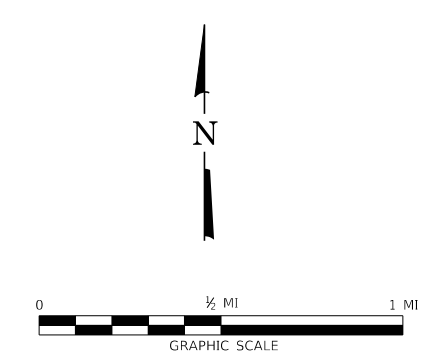
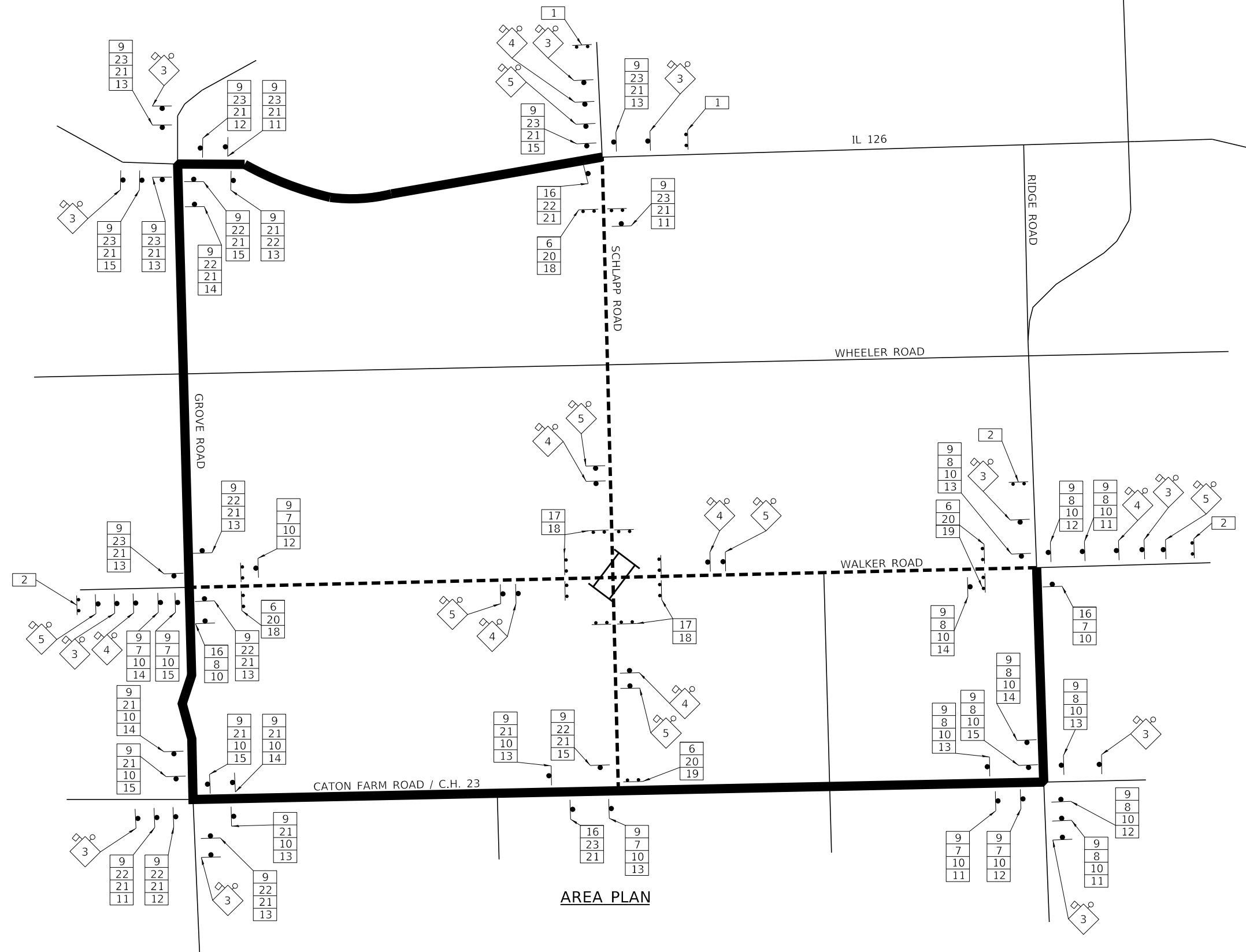


ALICE ROBINSON
NE¼, SEC 28, T. 36 N., R. 8 E., 3RD P.M.

JOHN KELLOGG
NW¼, SEC 27, T. 36 N., R. 8 E., 3RD P.M.



FILE NAME = 210137-shl-planprLogn	USER NAME = dfoley	DESIGNED - J.W.F.	REVISED -	<p align="center">STATE OF ILLINOIS KENDALL COUNTY HIGHWAY DEPARTMENT</p> <p align="center">PLAN & PROFILE WALKER ROAD</p>	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -		58	21-07127-00-BR	KENDALL	39	6
PLOT DATE = 12/22/2022	DATE = 12/15/2022	CHECKED - I.P.N.	REVISED -		NA-AU-SAY ROAD TOWNSHIP		CONTRACT NO. 87795		
		DATE = 12/15/2022	REVISED -		SCALE: 20H:5V		SHEET NO. 2 OF 2 SHEETS		STA. 53+00.00 TO STA. 59+00.00



- LEGEND**
- OPEN ROAD
 - DETOUR ROUTE
 - ROAD OPEN TO LOCAL TRAFFIC ONLY
 - 48" x 48" CONSTRUCTION SIGN, WITH AMBER FLASHING LIGHT AND ORANGE WARNING FLAG (OPTIONAL) NUMBER DENOTES SIGN TYPE
 - SERIES OF DETOUR SIGNS WITH DIRECTION AND ROAD NAME PLATES NUMBER DENOTES TYPE
 - SINGLE DETOUR SIGNS, NUMBER DENOTES TYPE

AREA PLAN

FILE NAME = 210137-sht-detour.dgn	USER NAME = dfoley	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALES	DRAWN - R.D.H.	REVISED -
PLOT DATE = 12/22/2022	DATE = 12/15/2022	CHECKED - S.W.M.	REVISED -

**STATE OF ILLINOIS
KENDALL COUNTY HIGHWAY DEPARTMENT**

DETOUR PLAN	
SCALE: NONE	STA. TO STA.
SHEET NO. 1 OF 2 SHEETS	

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	7
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
ILLINOIS FED. AID PROJECT 19N1(078)				

NOTES

- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JAN. 1, 2022", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES", THE DETAILS IN THESE PLANS, AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE ILLINOIS SUPPLEMENT.
- THE CONTRACTOR SHALL SCHEDULE ALL WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE DETOUR NEEDS TO BE IN EFFECT.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE (3) WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES FOR APPROVAL OF SUCH DATE.
- IF DEEMED NECESSARY BY THE ENGINEER A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO (2) WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
- IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE (3) WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT THE ENGINEER WILL FIELD VERIFY CONTRACTORS PROPOSED LOCATIONS OF ANY SIGNS.
- LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.
- THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY TO ENSURE THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL DEEMED NECESSARY BY THE ENGINEER.
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.
- ALL DETOUR SIGNING SHALL BE POST MOUNTED.
- THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE ILLINOIS SUPPLEMENT.
- ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 8'-0" IN WIDTH EACH, FOR A SINGLE APPROACH LANE.
- THE "ROAD CLOSED" (R11-2) AND THE "ROAD CLOSED TO THRU TRAFFIC" (R11-4) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS.
- THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" BY VARIABLE OR A 12" BY VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 5" LOWER CASE.
- DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE RESTRAINT CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
- CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.11 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
- THE ENGINEER SHALL BE NOTIFIED AT LEAST FORTY EIGHT (48) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
- CHANGEABLE MESSAGE SIGNS SHALL BE ERECTED 14 DAYS PRIOR TO THE PLANNED DATE OF ROAD CLOSURE AND SHALL REMAIN IN PLACE UNTIL THE ROAD IS CLOSED.
- THE CONTRACTOR SHALL PROVIDE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE SITE AND FOR THE DETOUR SIGNING PRIOR TO START OF WORK. ALL REPRESENTATIVES SHALL BE AVAILABLE AT ALL TIMES.
- THE CONTRACTOR SHALL NOTIFY IDOT DISTRICT 3 AT LEAST THREE (3) WEEKS IN ADVANCE OF INSTALLING DETOUR SIGNS ON IL ROUTE 126. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ANY REQUIRED IDOT FORMS OR APPROVALS.

SIGN LEGEND

①		R11-3 WITH 2 AMBER FLASHING LIGHTS. (2 REQ'D)	⑬		R11-2 48"x30" (8 REQ'D)
②		R11-3 WITH 2 AMBER FLASHING LIGHTS. (3 REQ'D)	⑭		STD 701901 (15 REQ'D)
③		W20-2, 48" x 48" WITH AMBER FLASHING LIGHT AND FLAG. (11 REQ'D)	⑮		M4-10L 48"x18" (3 REQ'D)
④		W20-3, 48" x 48" WITH AMBER FLASHING LIGHT AND FLAG. (7 REQ'D)	⑯		M4-10R 48"x18" (4 REQ'D)
⑤		W20-3, 48" x 48" WITH AMBER FLASHING LIGHT AND FLAG. (7 REQ'D)	⑰		M1-I100 24"x12" (26 REQ'D)
⑥		R11-4 60"x 30" (7 REQ'D)	⑱		M3-1 24"x12" (9 REQ'D)
⑦		M3-2 24"x12" (7 REQ'D)	⑳		M3-3 24"x12" (10 REQ'D)
⑧		M3-4 24"x12" (11 REQ'D)	<p>TYPICAL INTERSECTION AT POINT OF DETOUR</p>		
⑨		M4-8 24"x12" (40 REQ'D)			
⑩		M1-I100 24"x12" (24 REQ'D)			
⑪		M5-1 L 21" x 15" (6 REQ'D)			
⑫		M6-1 21"x15" (7 REQ'D)			
⑬		M6-3 21"x15" (14 REQ'D)			
⑭		M5-1 R 21" x 15" (5 REQ'D)			
⑮		M6-1 21"x15" (7 REQ'D)			
⑯		M4-8A 24"x48" (4 REQ'D)			
⑰					

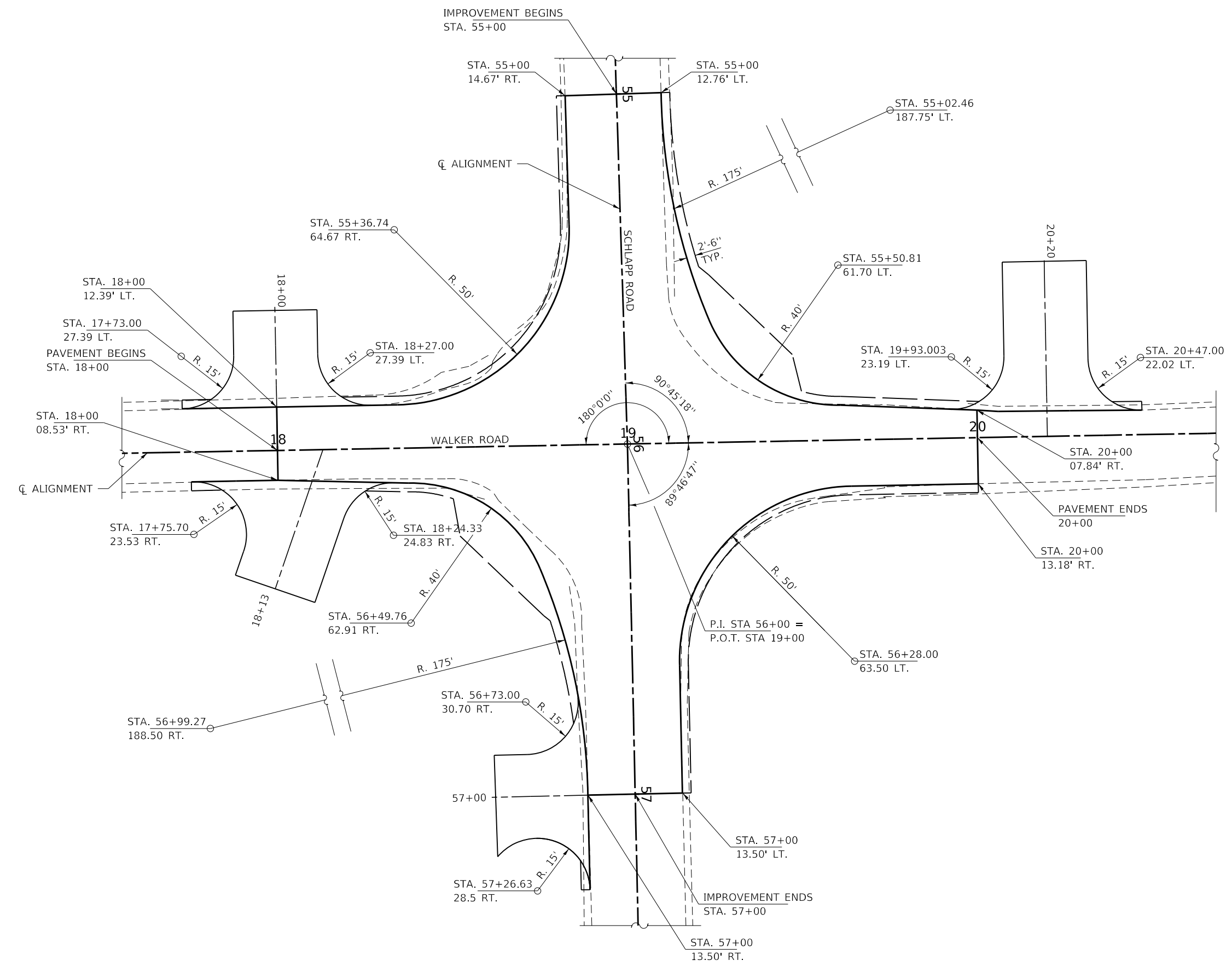
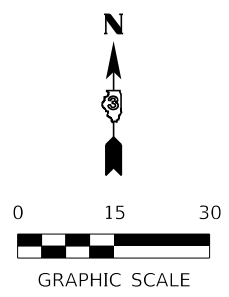
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ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 12/22/2022	CHECKED - S.W.M.	REVISED -
		DATE - 12/15/2022	REVISED -

**STATE OF ILLINOIS
KENDALL COUNTY HIGHWAY DEPARTMENT**

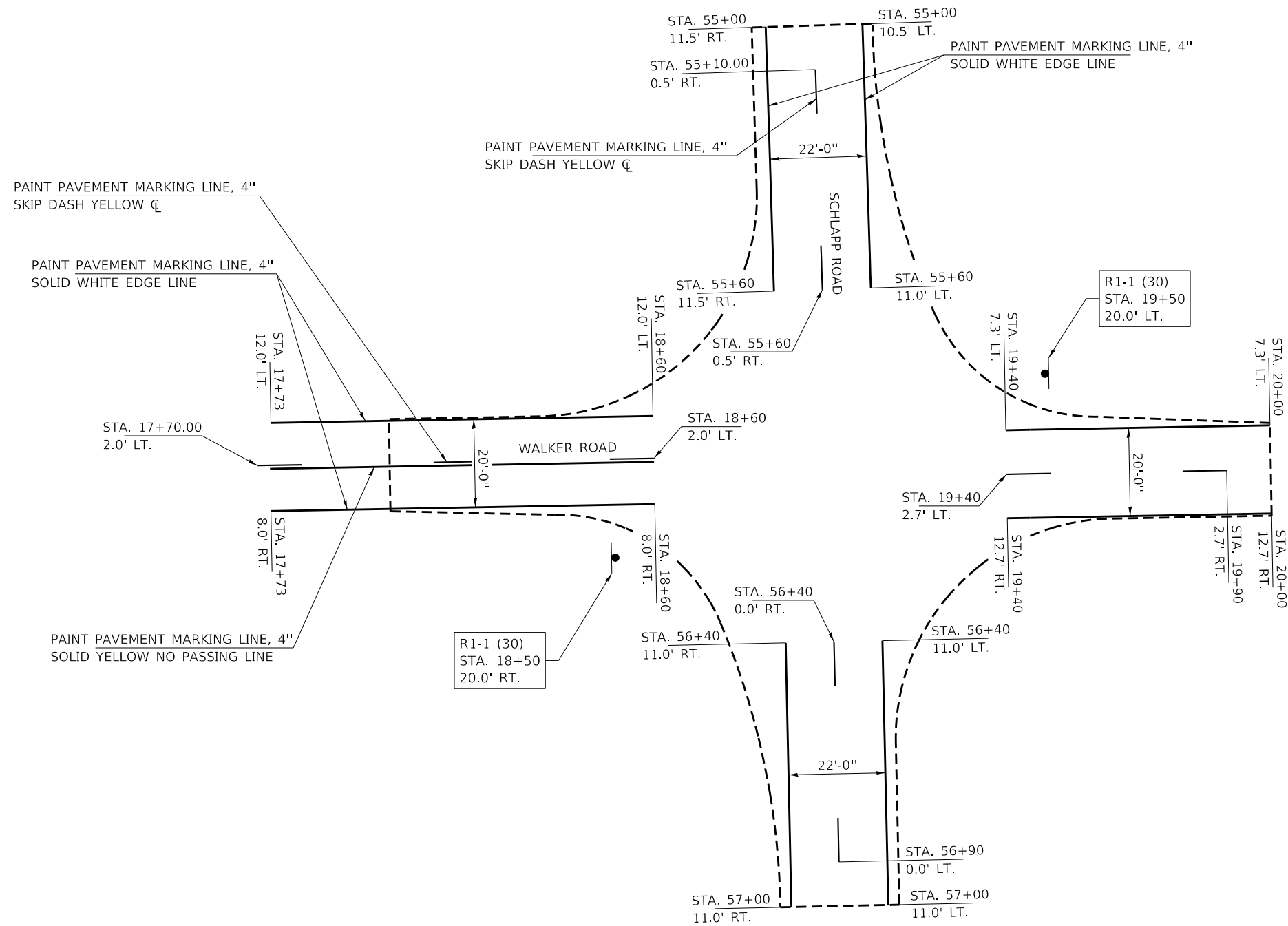
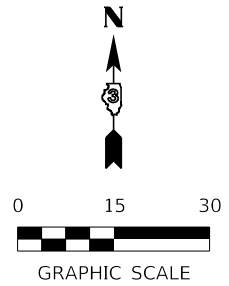
DETOUR PLAN

SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	8
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
		ILLINOIS FED. AID PROJECT 19N1(07B)		



FILE NAME = 210137-shi-IntersectionDetail.dgn	USER NAME = dfoley	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS KENDALL COUNTY HIGHWAY DEPARTMENT	INTERSECTION DETAIL			T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.D.S.	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	108	21-07127-00-BR	KENDALL	39	9
	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -						NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
	PLOT DATE = 12/22/2022	DATE - 12/15/2022	REVISED -						ILLINOIS FED. AID PROJECT 19N1(078)				



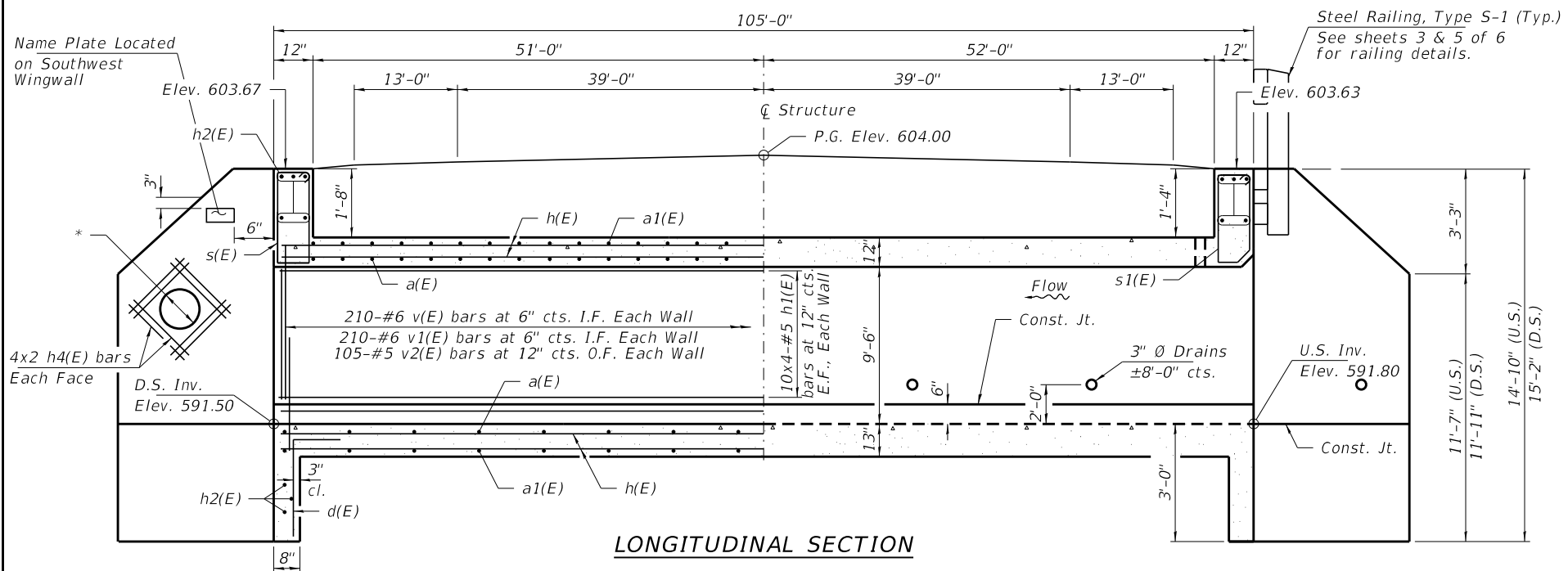
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	PLOT DATE = 12/22/2022	DATE - 12/15/2022	REVISED -

**STATE OF ILLINOIS
KENDALL COUNTY HIGHWAY DEPARTMENT**

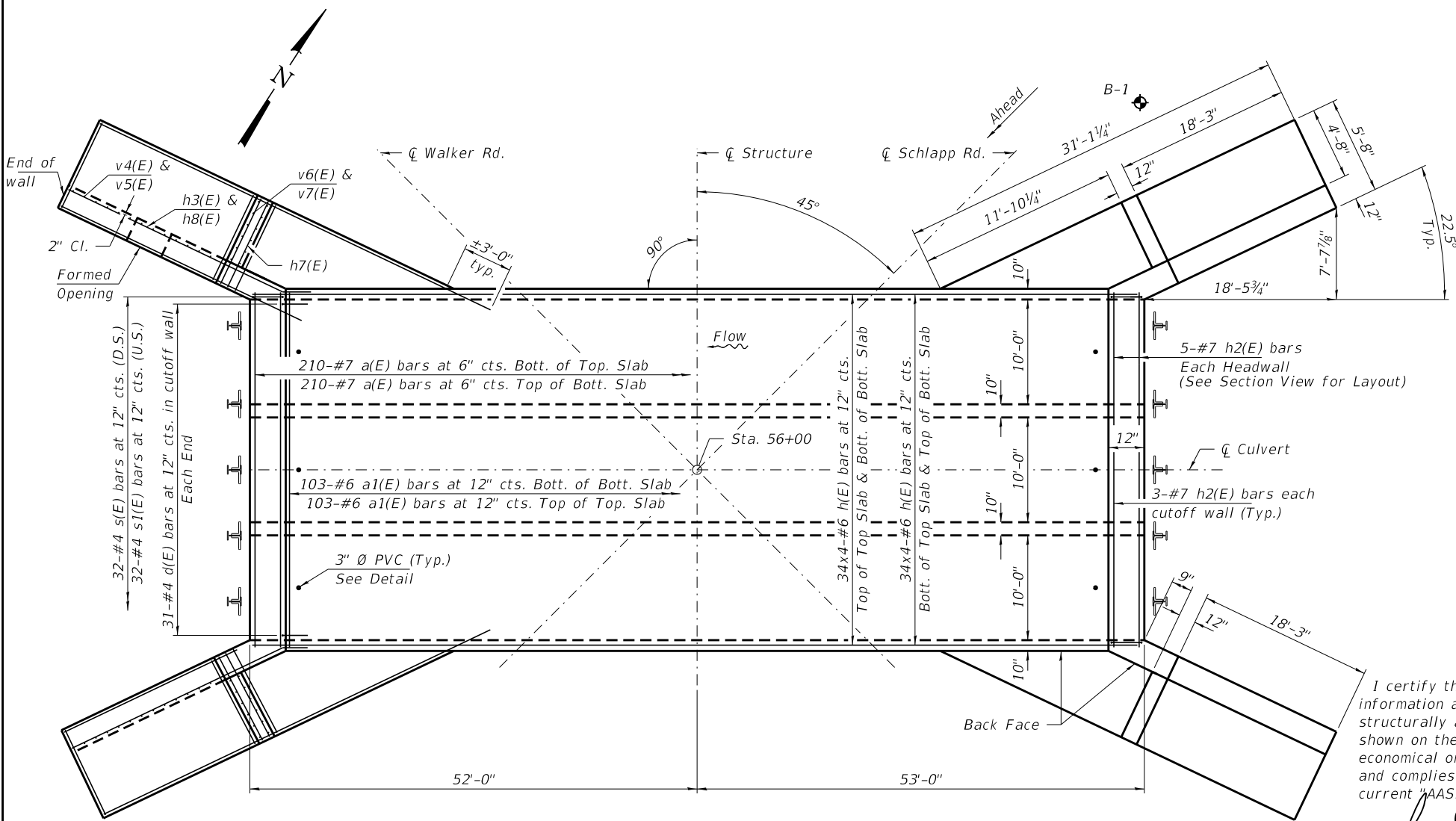
TRAFFIC CONTROL DETAIL

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T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	10
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
ILLINOIS FED. AID PROJECT 19N1(078)				



LONGITUDINAL SECTION



SHOWING TOEWALL

SHOWING HEADWALL

BENCHMARK: Plug in SE Wingwall, 17' LT., STA. 55+60, Elev. 603.33
 EXISTING STRUCTURE: S.N. 047-500 - STA. 56+00 - Triple 10' Span X 9' Rise Concrete Box Culvert with Concrete Wingwalls & Steel Plate Beam Railing. 78.3' o.-o. headwalls
 Structure closed to traffic during construction.
 No Salvage

NOTES
 Exposed edges shall be beveled 3/4".
 For backfilling and embankment, see Standard Specifications, except that Porous Granular Embankment shall be placed as shown in backfill detail for the full length of the culvert.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
 It shall be the responsibility of the Contractor to divert flow and dewater the site during construction in order to keep construction areas free of water. The method of water diversion shall subject to the approval of the Engineer and shall be included in the cost of Concrete Box Culverts.
 All construction joints shall be bonded.
 Precast concrete box culverts will not be allowed.
 All bars shall be epoxy coated.
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

* Formed Opening in S.W. wingwall 18"± (Typ.) for 12" tile
 Location and Elevation of tile opening to be approved by engineer.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	420	#7	34'-8"	U
a1(E)	206	#6	33'-0"	—
d(E)	62	#4	4'-5"	L
h(E)	544	#6	29'-1"	—
h1(E)	320	#5	28'-11"	—
h2(E)	16	#7	33'-0"	—
h3(E)	76	#6	23'-10"	—
h4(E)	16	#4	3'-2"	—
h7(E)	88	#4	5'-4"	—
h8(E)	76	#6	25'-3"	—
h10(E)	8	#6	5'-1"	—
h11(E)	8	#6	20'-7"	—
h13(E)	12	#6	22'-7"	—
h18(E)	12	#6	24'-0"	—
h23(E)	12	#6	15'-7"	—
h28(E)	12	#6	16'-11"	—
h33(E)	20	#6	20'-3"	—
h38(E)	20	#6	24'-2"	—
s(E)	32	#4	7'-3"	U
s1(E)	32	#4	6'-6"	U
t(E)	48	#4	5'-4"	—
v(E)	840	#6	9'-8"	—
v1(E)	840	#6	4'-5"	—
v2(E)	420	#5	8'-8"	—
v3(E)	12	#6	10'-11"	—
v4(E)	88	#6	18'-6"	—
v5(E)	188	#6	6'-6"	—
v6(E)	96	#6	10'-9"	—
v7(E)	96	#6	5'-10"	—
v8(E)	188	#4	5'-10"	—
v9(E)	12	#4	10'-11"	—
v10(E)	88	#4	18'-6"	—

INDEX OF STRUCTURE SHEETS

- 1-4. Culvert Details
- 5. Steel Railing, Type S-1
- 6. Borings

MIN. BAR LAP

#5 = 3'-7"
 #6 = 3'-10"

DESIGN STRESSES

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

LOADING HL-93

Design Specifications: 2020 AASHTO LRFD Bridge Design Specifications, 9th Edition with all interims.

I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Specifications."

Scott M. Shoup
 ILLINOIS STRUCTURAL NO. 081-6529 12/15/2022



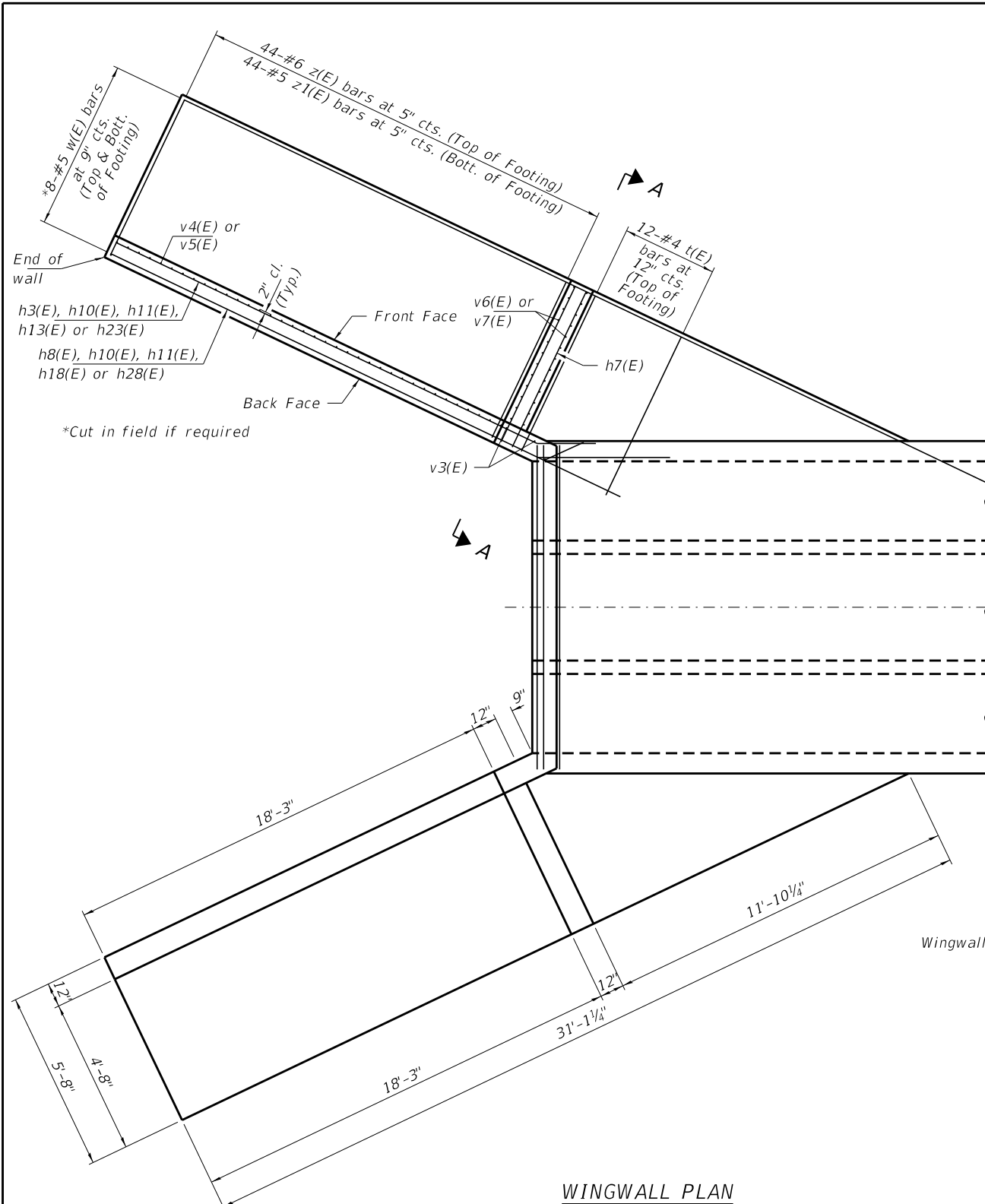
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STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

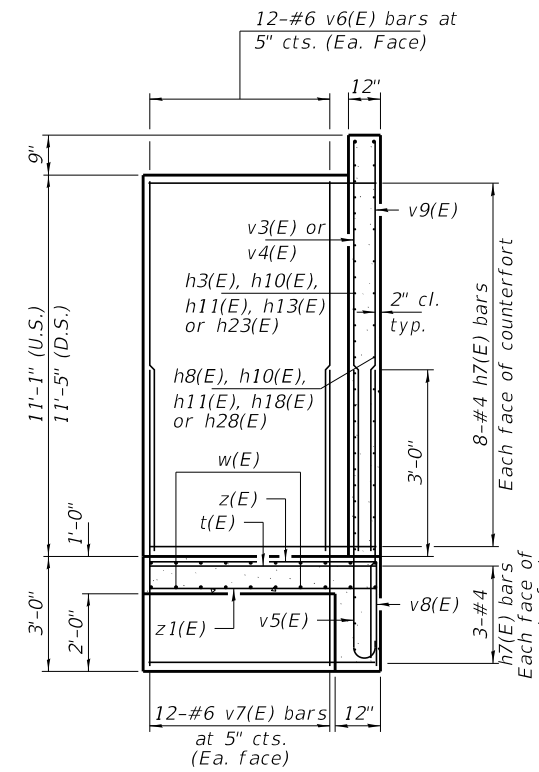
CULVERT DETAILS
 STRUCTURE NO. 047-3188
 SHEET NO. 1 OF 6 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	11
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
ILLINOIS		FED. AID PROJECT 19N1(078)		

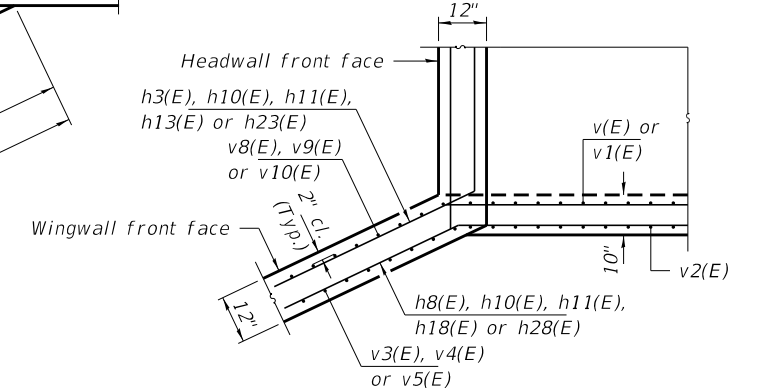
Porous Granular Embankment	Ton	1,690
Stone Riprap, Class A4	Ton	310
Filter Fabric	Sq. Yd.	410
Removal of Exist. Struct.	Each	1
Reinf. Bars, Epoxy Coated	Pound	119,840
Steel Railing, Type S-1	Foot	60
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	473.1
Membrane Waterproofing System for Buried Struct.	Sq. Yd.	404



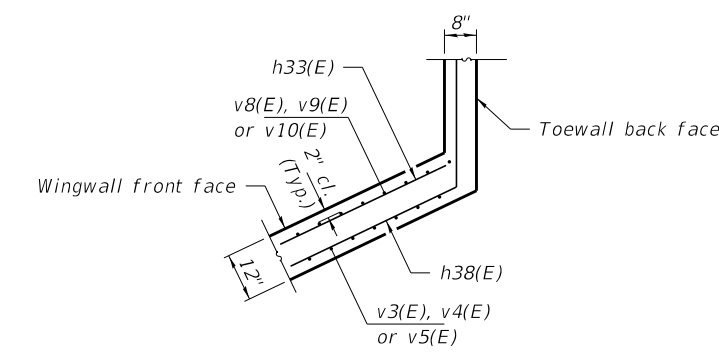
WINGWALL PLAN



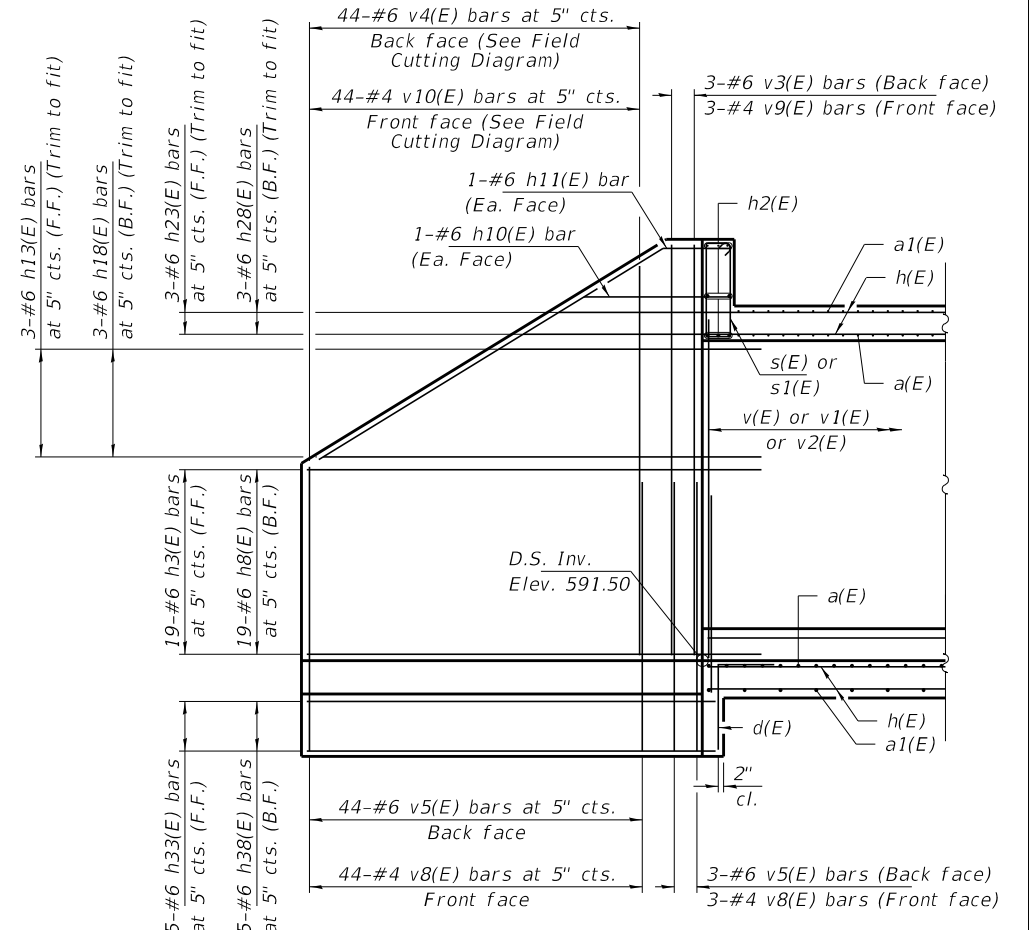
SECTION A-A



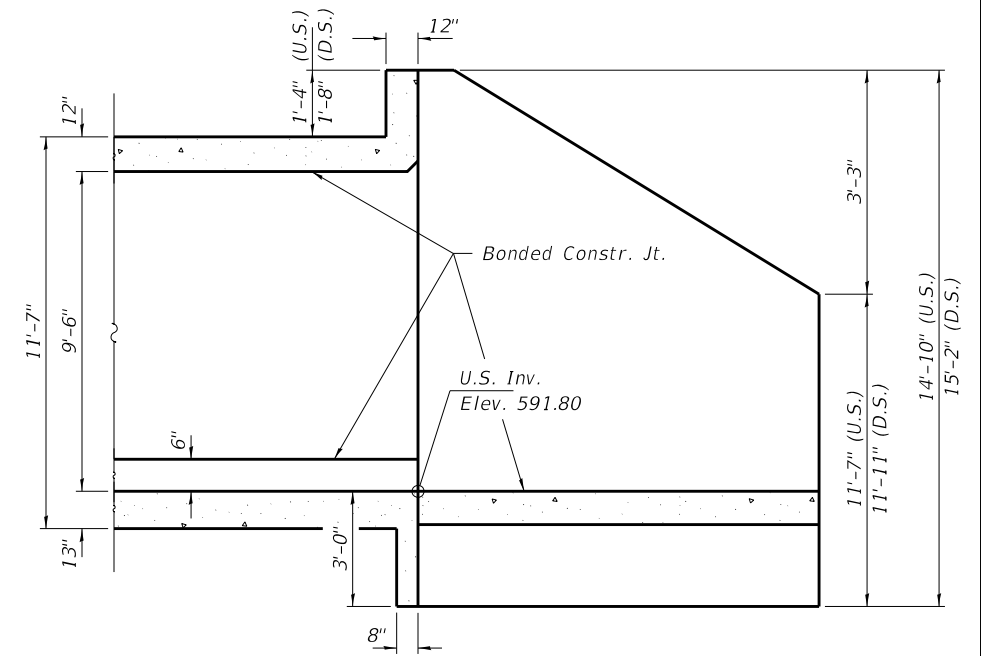
WINGWALL UPPER PLAN DETAIL



WINGWALL LOWER PLAN DETAIL



END SECTION ELEVATION
Showing Reinforcement



END SECTION ELEVATION
Showing Dimensions

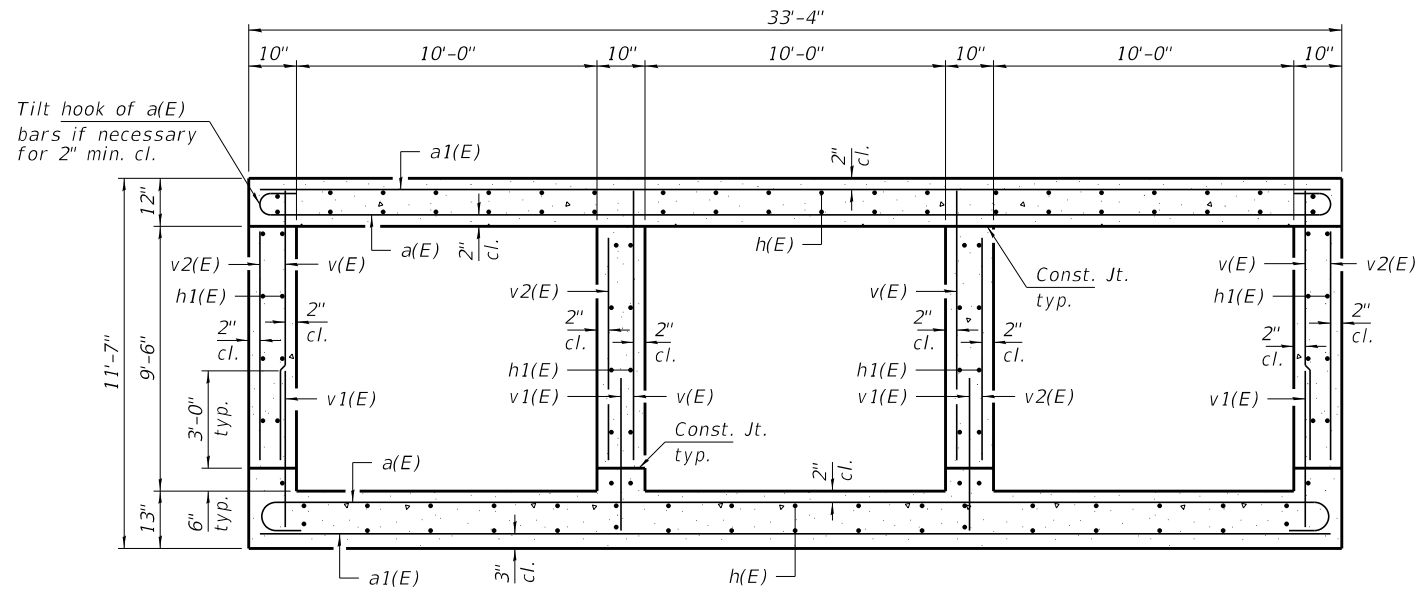
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	PLOT DATE = 12/22/2022	DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
KENDALL COUNTY HIGHWAY DEPARTMENT

CULVERT DETAILS
STRUCTURE NO. 047-3188
SHEET NO. 2 OF 6 SHEETS

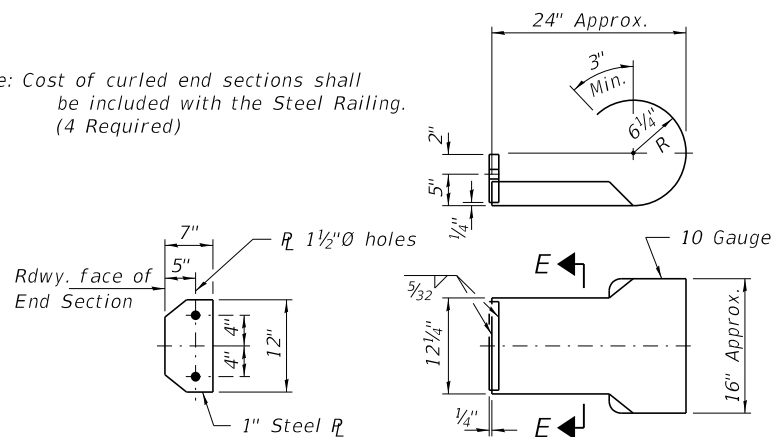
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108	21-07127-00-BR	KENDALL	39	12
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		

ILLINOIS FED. AID PROJECT 19N1(078)

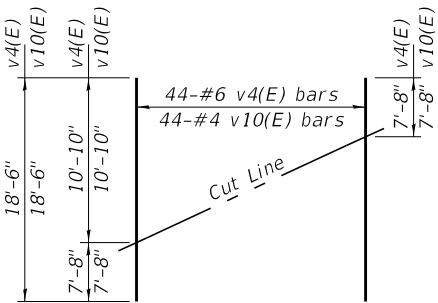


SECTION THRU BARREL

Note: Cost of curled end sections shall be included with the Steel Railing. (4 Required)

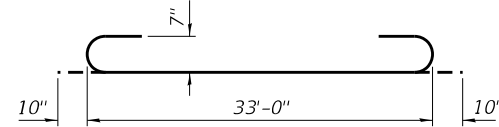


SECTION E-E CURLED END SECTION DETAILS

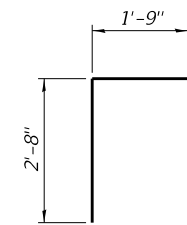


FIELD CUTTING DIAGRAM

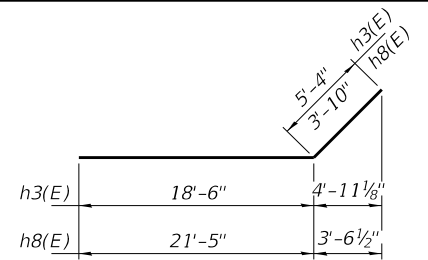
Order v4(E) and v10(E) full length. Cut as shown and use remainder of bars in opposite wing.



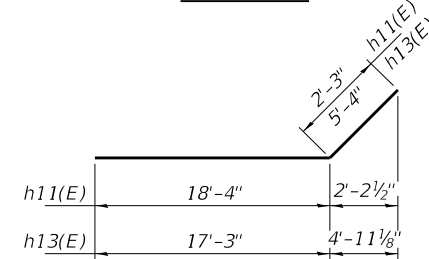
BAR a(E)



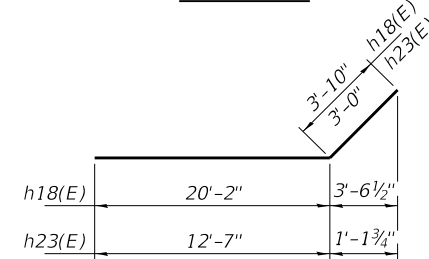
BAR d(E)



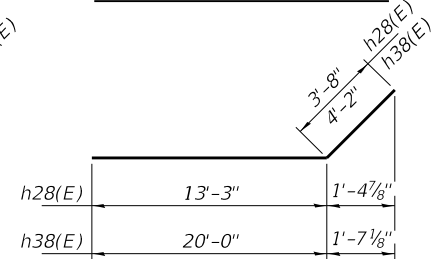
BARS h3(E) & h8(E)



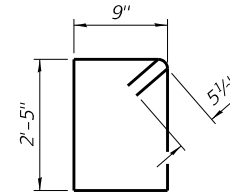
BARS h11(E) & h13(E)



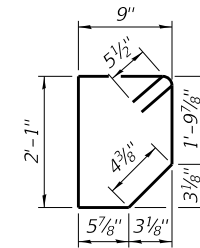
BARS h18(E) & h23(E)



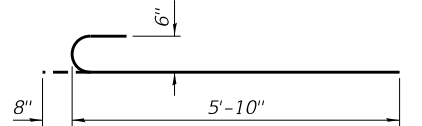
BARS h28(E) & h38(E)



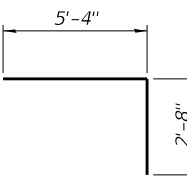
BAR s(E)



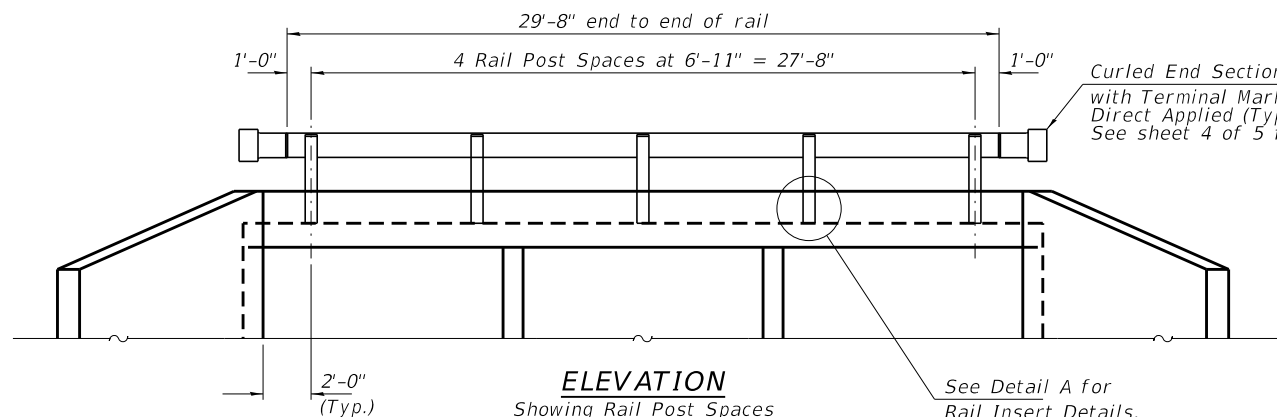
BAR s1(E)



BAR v5(E)

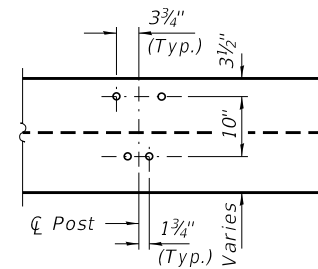


BAR z(E)

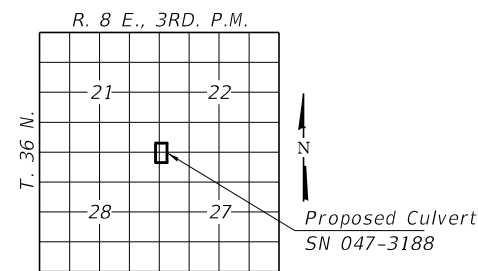


ELEVATION

Showing Rail Post Spaces
See sheet 4 of 5 for Railing Details.



DETAIL A



LOCATION SKETCH

BUILT 202_ BY
KENDALL COUNTY
SEC. 21-07127-00-BR
NA-AU-SAY TOWNSHIP
STRUCTURE NO. 047-3188
LOADING HL-93

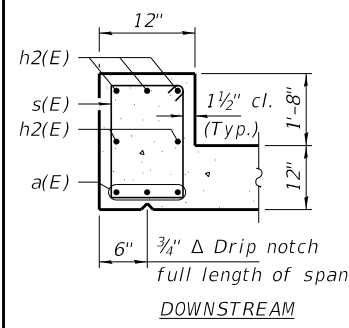
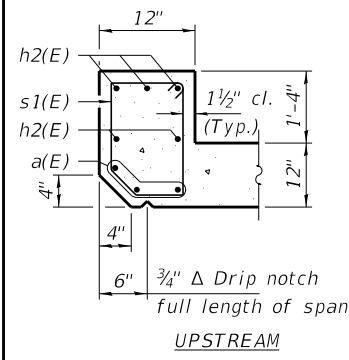
NAME PLATE
See Std. 515001

WATERWAY INFORMATION

Drainage Area = 13.0 Sq. Mi. Existing Low Grade Elev. 603.1 @ Sta. 58+00
Proposed Low Grade Elev. 603.1 @ Sta. 58+00

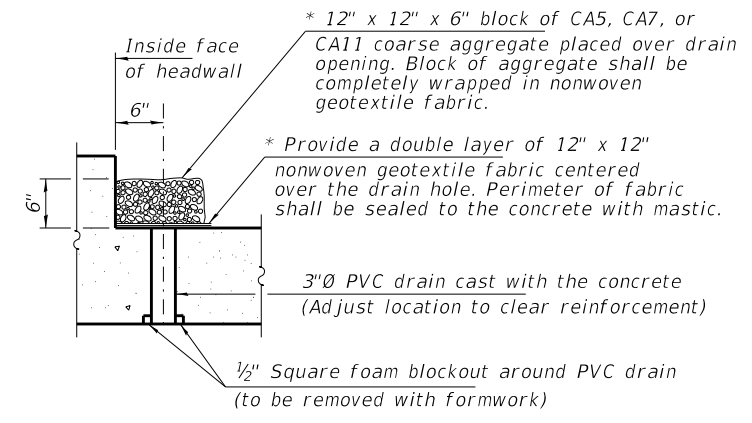
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
	10	1,128	210	240	600.1	0.0	0.0	600.1	600.1
Design	20	1,480	220	250	600.6	0.2	0.1	600.8	600.7
Base	100	2,500	240	270	601.4	1.6	1.2	603.0	602.6
Max. Calc.	500	3,148	260	270	601.8	1.8	1.8	603.6	603.5

10 Year Velocity through Existing Bridge = 5.4 fps 10 Year Velocity through Proposed Bridge = 4.7 fps



SECTION THRU HEADWALL

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

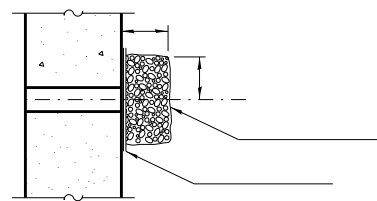


DRAIN DETAIL

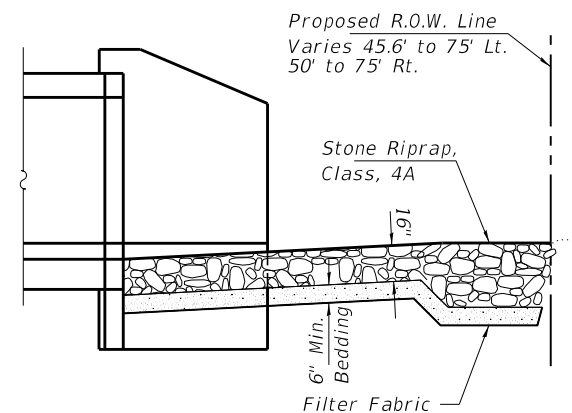
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for Concrete Box Culverts.)

Drains shall be installed in each span near head walls. See Plan view

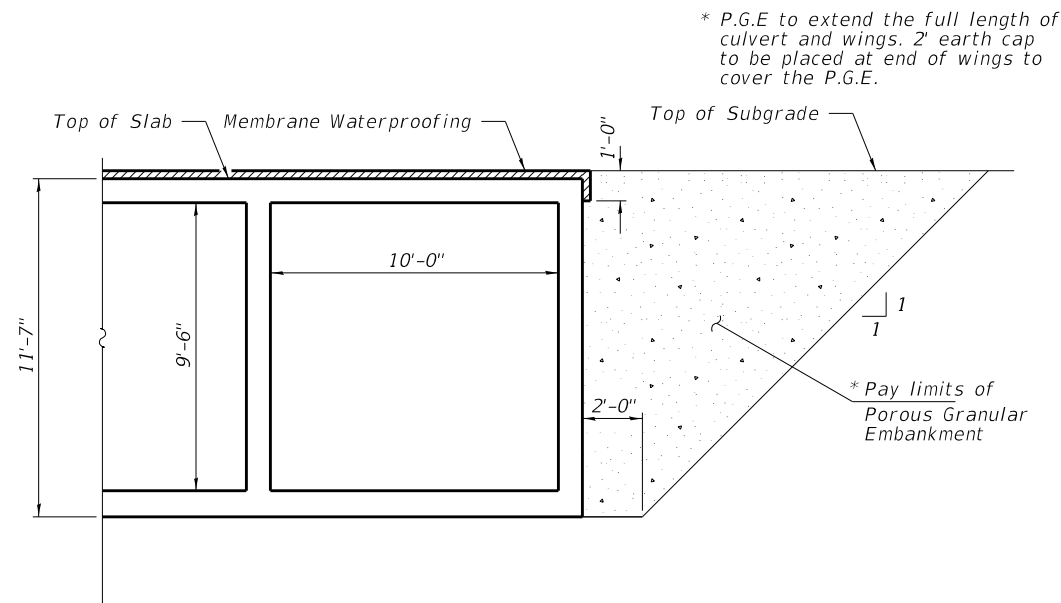
Membrane waterproofing shall be omitted for the fabric, drain and aggregate block.



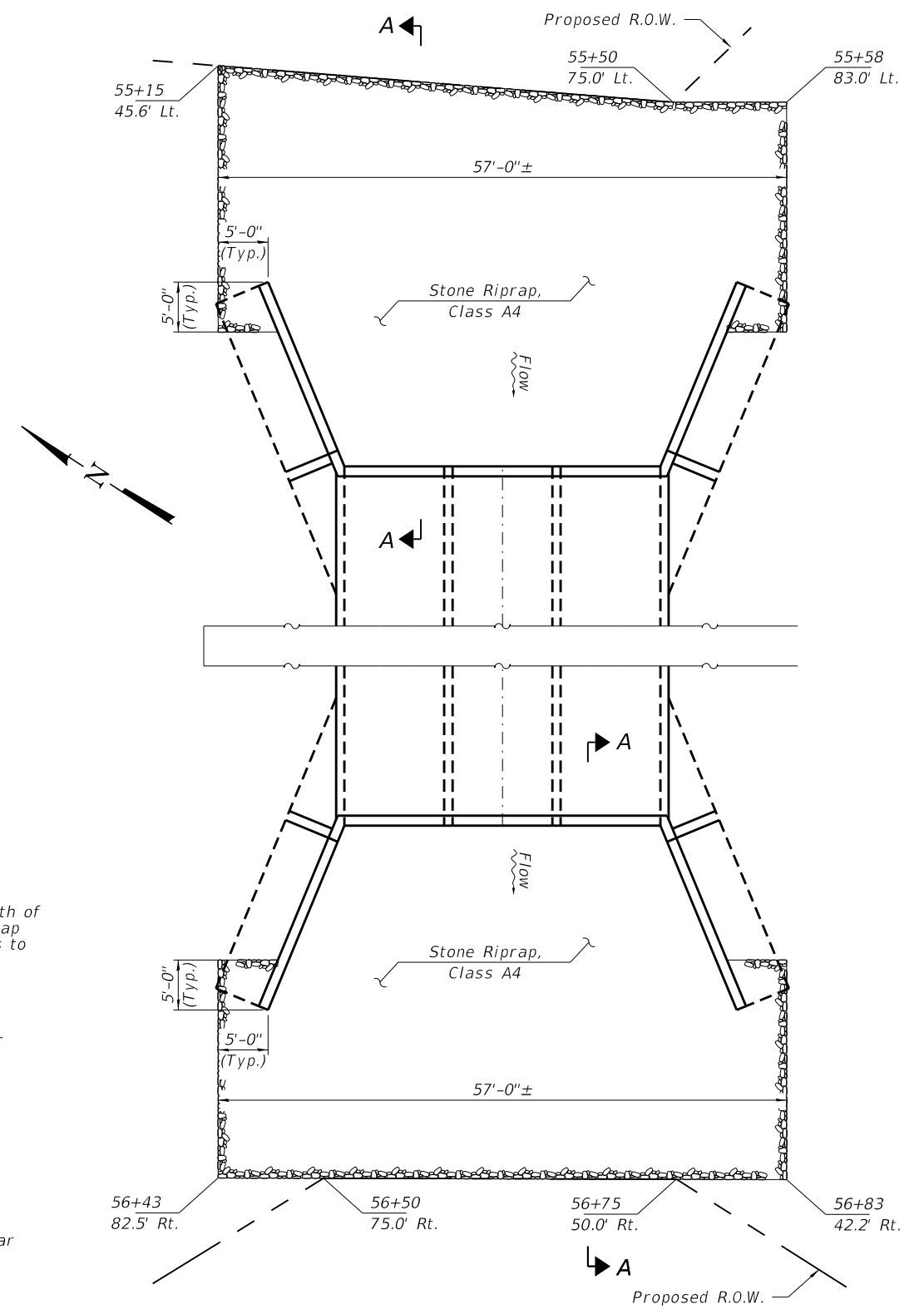
WEEP HOLE DRAIN DETAIL



SECTION A-A



BACKFILL DETAIL



RIPRAP LAYOUT

FILE NAME = 210137-shi-culvert.dgn	USER NAME = dfoley	DESIGNED - J.R.B.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. <small>3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959</small>	PLOT SCALE = \$SCALE\$	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 12/22/2022	DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

**STATE OF ILLINOIS
KENDALL COUNTY HIGHWAY DEPARTMENT**

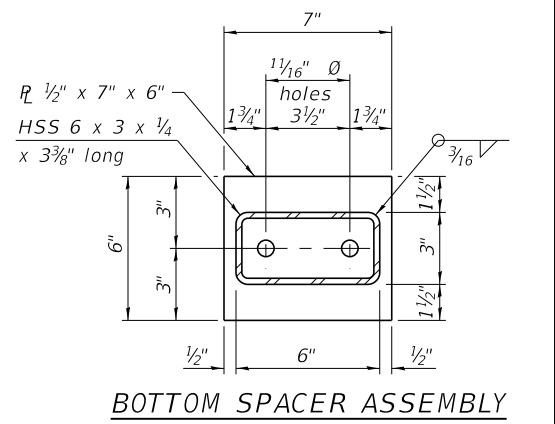
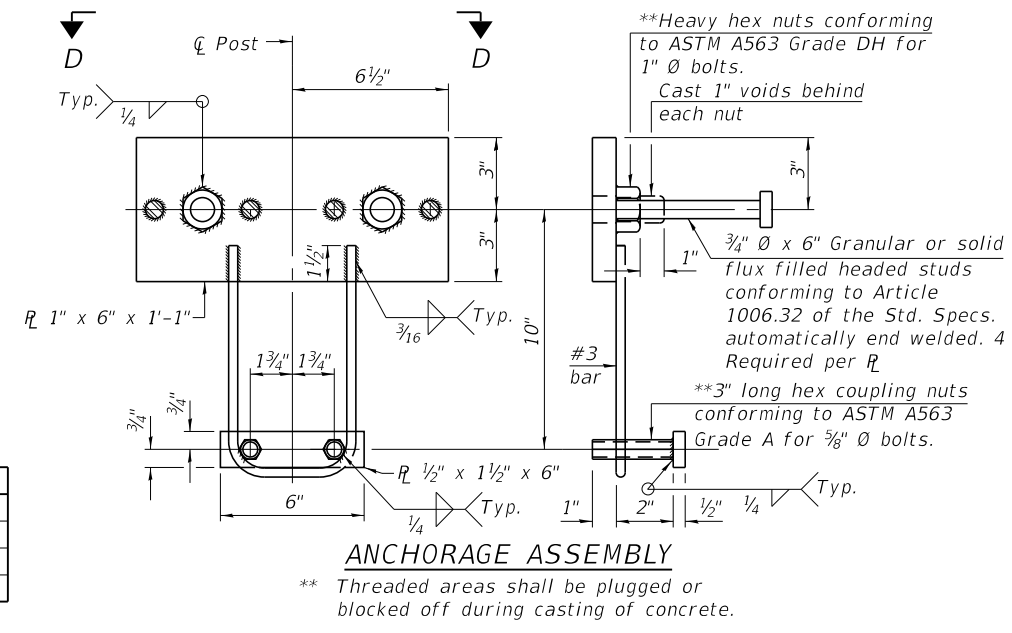
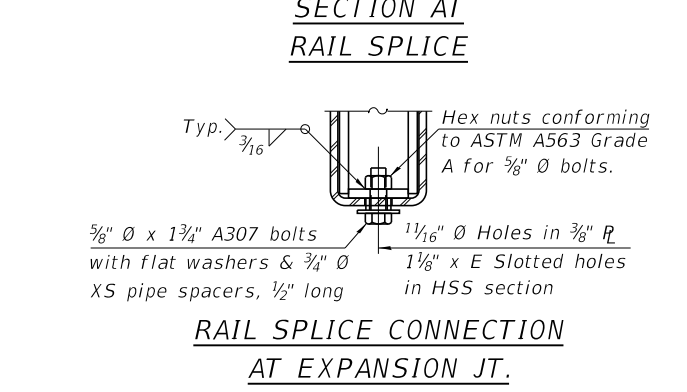
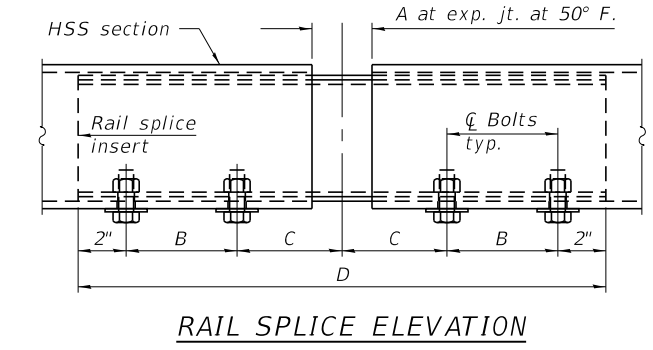
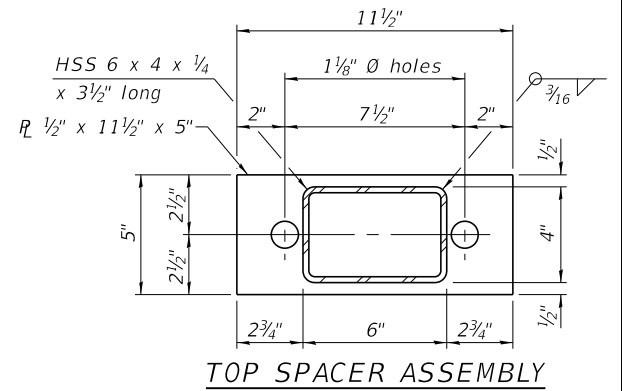
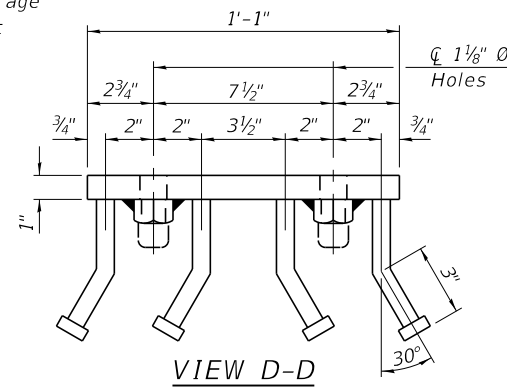
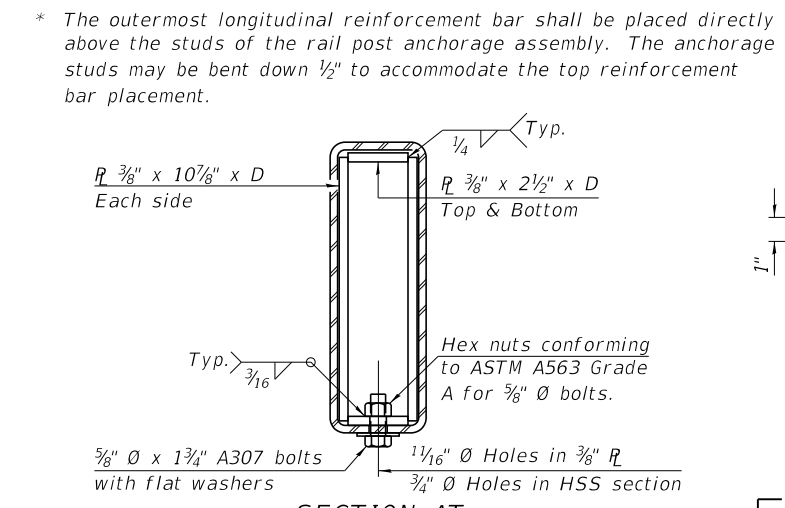
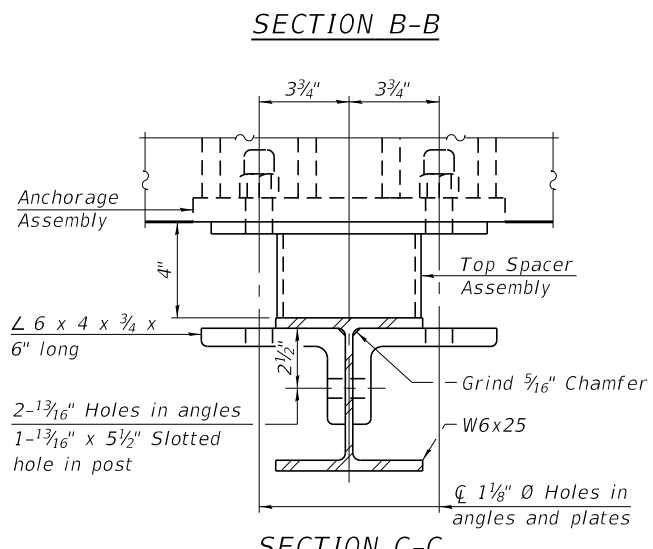
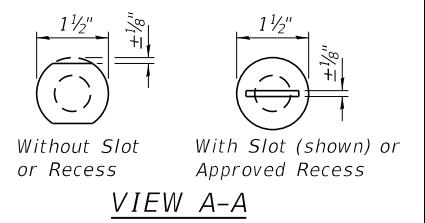
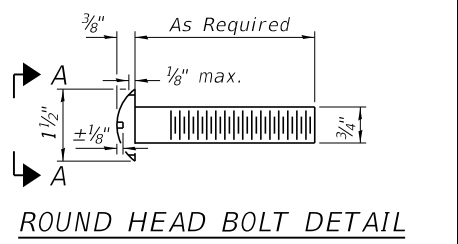
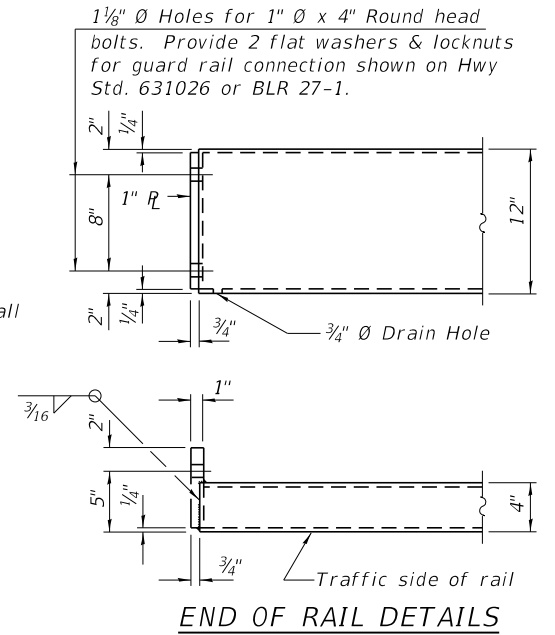
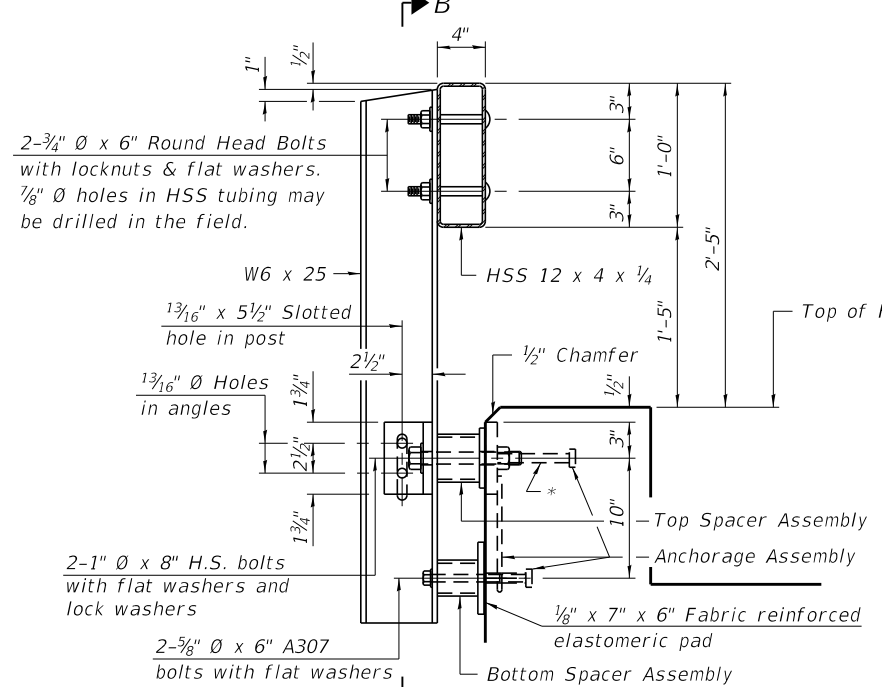
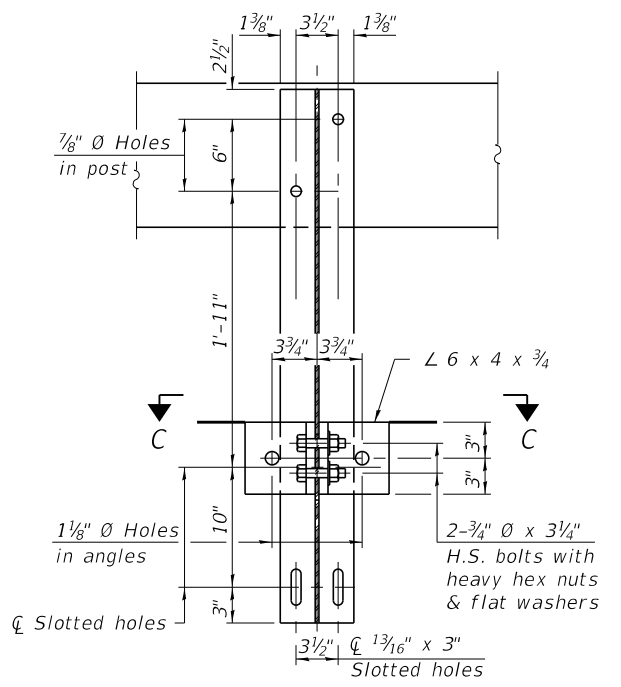
**CULVERT DETAILS
STRUCTURE NO. 047-3188**

SHEET NO. 4 OF 6 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	14
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		

ILLINOIS FED. AID PROJECT 19N1(078)

Notes:
 A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11 1/2", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than 1/4" (top) or 1/2" (bottom), longer bolts are required. Cost included with Steel Railing, Type S-1.
 All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.
 All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 Rail splice inserts may be built out of 2 - 3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
 All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.



RAILING CRITERIA

NCHRP 350 Test Level	2
Railing Weight (plf)	50
Max Post Spacing	10'-9"
HMA thickness range (in)	1 1/4" - 3 1/8"

R-23A 10-12-2021

SPLICE DIMENSIONS

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/4"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤ 4"	2 1/2"	4 3/8"	4 3/8"	1'-10"	3 1/16"
Over Finger or Modular Jt.	≤ 9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 1 3/16"
Over Finger or Modular Jt.	≤ 15"	8 1/4"	10 1/8"	10"	3'-8 1/4"	8 9/16"

T = ; total movement along centerline of roadway at expansion joint.

FILE NAME = 210137-shi-culvert.dgn
 USER NAME = dfoley
 DESIGNED - J.R.B.
 CHECKED - S.M.S.
 DRAWN - R.D.H.
 CHECKED - S.W.M.

HAMPTON, LENZINI AND RENWICK, INC.
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000959

DESIGNED - J.R.B.
 CHECKED - S.M.S.
 DRAWN - R.D.H.
 CHECKED - S.W.M.

REVISED -
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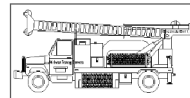
STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

STEEL RAILING, TYPE S-1
 STRUCTURE NO. 047-3188
 SHEET NO. 5 OF 6 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	15
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
ILLINOIS FED. AID PROJECT 19N(1078)				

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	60



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

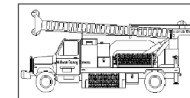
Client: Hampton, Lenzini and Renwick, Inc.
Project Name: Schlapp Road & Walker Road Box Culvert
Project Site: Section 21-07127-00-BR
Na-Au-Sa Twp., Kendall County, IL.

Boring No. B-1
Surface Elev. 603.70
Auger Depth 36.50 Rotary Depth NA
Start Date 05/22/21 Finish Date 05/22/21

Location: 50' East of Centerline of Schlapp Road
15' North of Centerline of Walker Road

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
603.70	3" Bituminous over Aggregate		1							Randy Safranski Diedrich D-120	
602.70			2								
601.70			3	1	SS	1.4	9	B	20		
600.70			4								
599.70			5								
598.70	Stiff Black And Brown Silty Clay (Fill)		6	2	SS	1.2	8	B	22		
597.70			7								
596.70			8								
595.70			9								
594.70			10								
593.70			11	4	SS	1.5	11	B	20		
592.70	Very Stiff Gray Clay		12								
591.70			13	5	SS	3.1	28	S	12		
590.70	Medium Dense Gray Gravel & Limestone Fragments		14								
589.70			15								
588.70	Very Dense Gray Silty Clay Till with Sand & Gravel Layers and Cobble		16	6	SS	---	55	---	12		
587.70			17								
586.70			18	7	SS	4.0	36	B/S	12		
585.70	Hard Gray Clay Till		19								
584.70			20	8	SS	4.5	43	B/S	12		

Groundwater Data: Static water level after boring completion - Elevation 592.7
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 2

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hampton, Lenzini and Renwick, Inc.
Project Name: Schlapp Road & Walker Road Box Culvert
Project Site: Section 21-07127-00-BR
Kendall County, IL.

Boring No. B-1
Surface Elev. 603.70
Auger Depth 36.50 Rotary Depth NA
Start Date 05/22/21 Finish Date 05/22/21

Location: 50' East of Centerline of Schlapp Road
15' North of Centerline of Walker Road

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
582.70			22							Randy Safranski Diedrich D-120	
581.70			23	9	SS	5.0	45	S	12		
580.70	Hard Gray Clay Till		24								
579.70			25								
578.70			26	10	SS	5.5	45	S	11		
577.70			27								
576.70			28								
575.70			29	11	SS	4.0	36	S	12		
574.70			30								
573.70			31	12	SS	4.1	34	S	12		
572.70	Hard Gray Clay Till with Silt & Sand Seams		32								
571.70			33								
570.70			34								
569.70			35								
568.70			36	13	SS	---	53	---	---		
567.70	Very Dense Limestone Cobbles & Clay Very Dense Weathered Limestone?		37								
566.70	Auger Refusal Limestone?		38								
565.70			39								
564.70			40								
563.70			41								
562.70											

Groundwater Data: Static water level after boring completion - Elevation 592.7
Comments:

BORING-1

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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.M.S.	REVISED -
PLOT DATE = 12/22/2022		DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
KENDALL COUNTY HIGHWAY DEPARTMENT

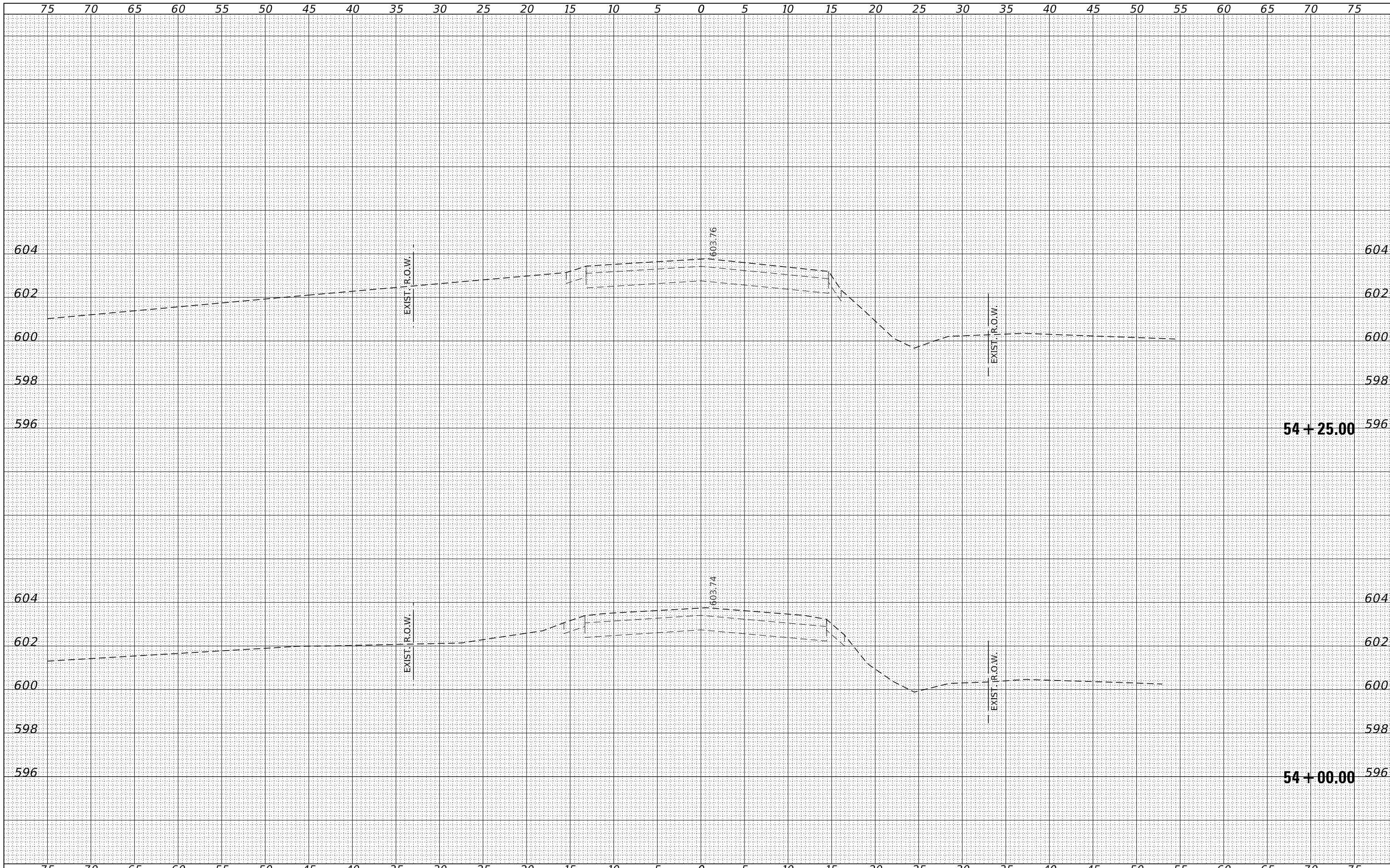
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STRUCTURE NO. 047-3188

SHEET NO. 6 OF 6 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	16
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
ILLINOIS FED. AID PROJECT 19N1(078)				

BY	DATE

BY	DATE



FILE NAME = 210137-shl-vssheets.dgn
 USER NAME = ofoley
 DESIGNED - J.W.F
 DRAWN - R.D.H.
 CHECKED - S.W.M.
 DATE - 12/15/2022

PLOT SCALE = \$Scales
 PLOT DATE = 12/22/2022

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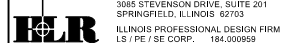
STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCHLAPP ROAD

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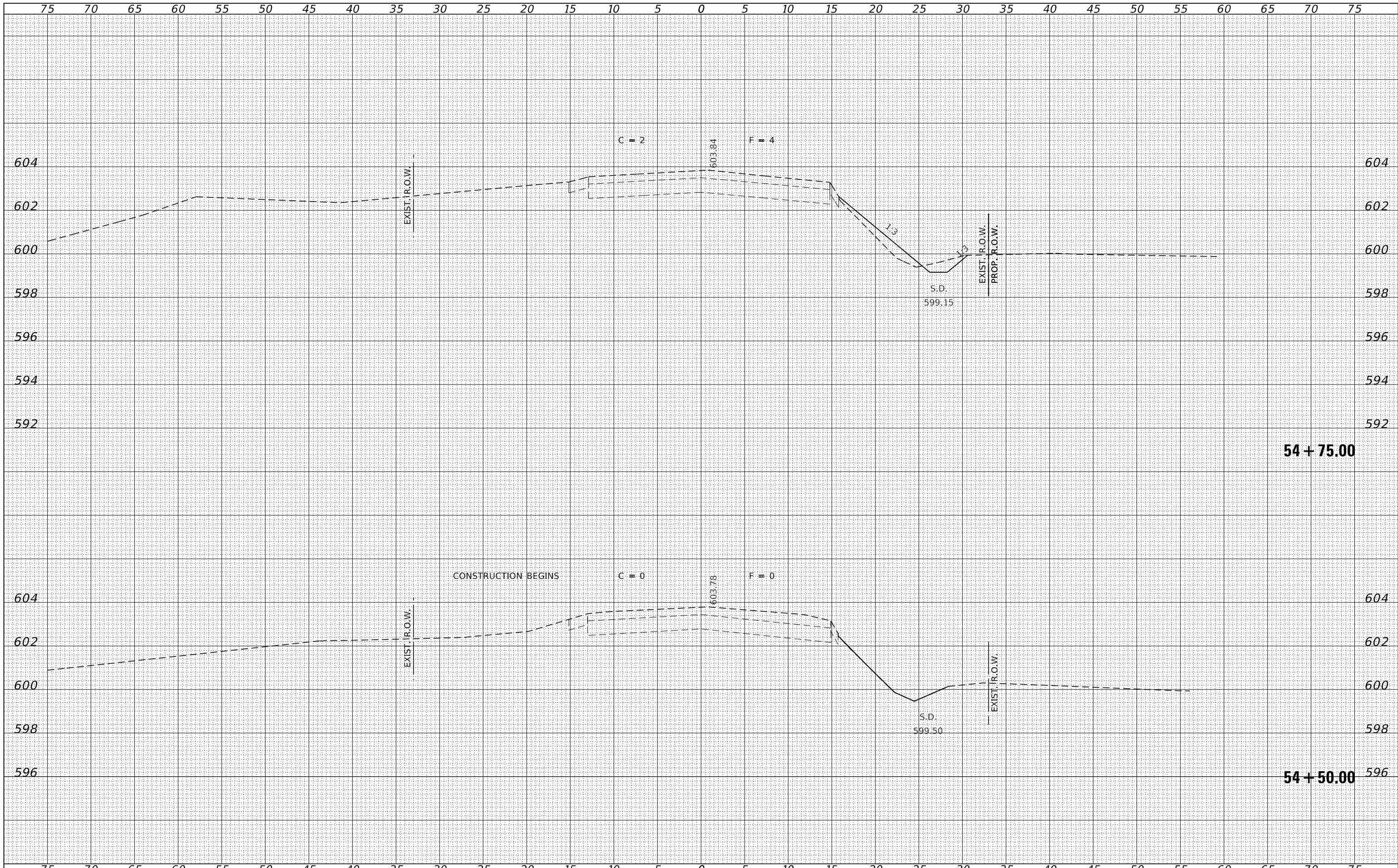
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108	21-07127-00-BR	KENDALL	39	17
NA-AU-SAY TOWNSHIP			CONTRACT NO. 87795	

ILLINOIS FED. AID PROJECT 19N1(078)



DATE	
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FINAL SURVEY	
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STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

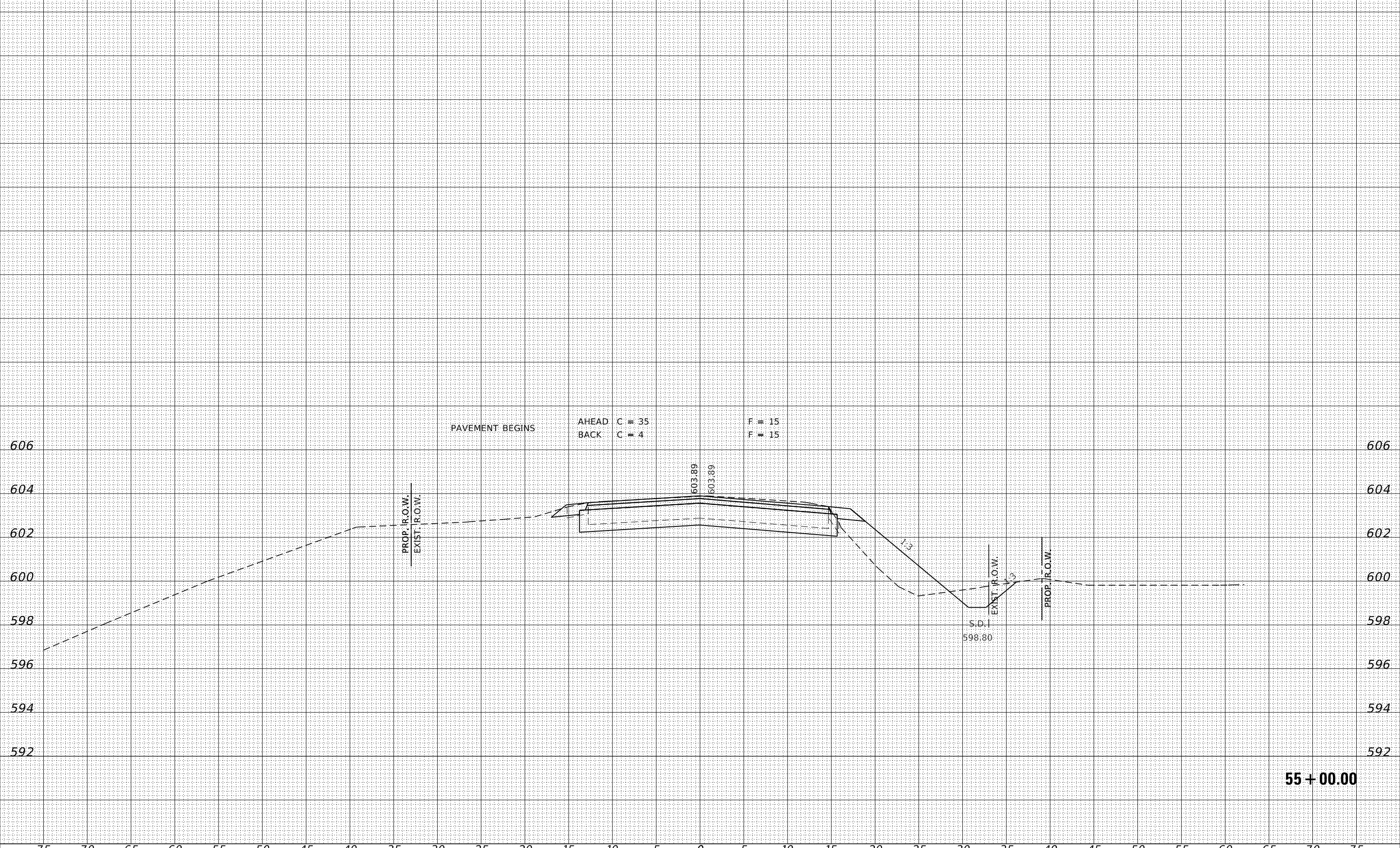
STATION CROSS SECTIONS
 SCHLAPP ROAD

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108	21-07127-00-BR	KENDALL	39	18
NA-AU-SAY TOWNSHIP			CONTRACT NO. 87795	
ILLINOIS FED. AID PROJECT 19N1(078)				

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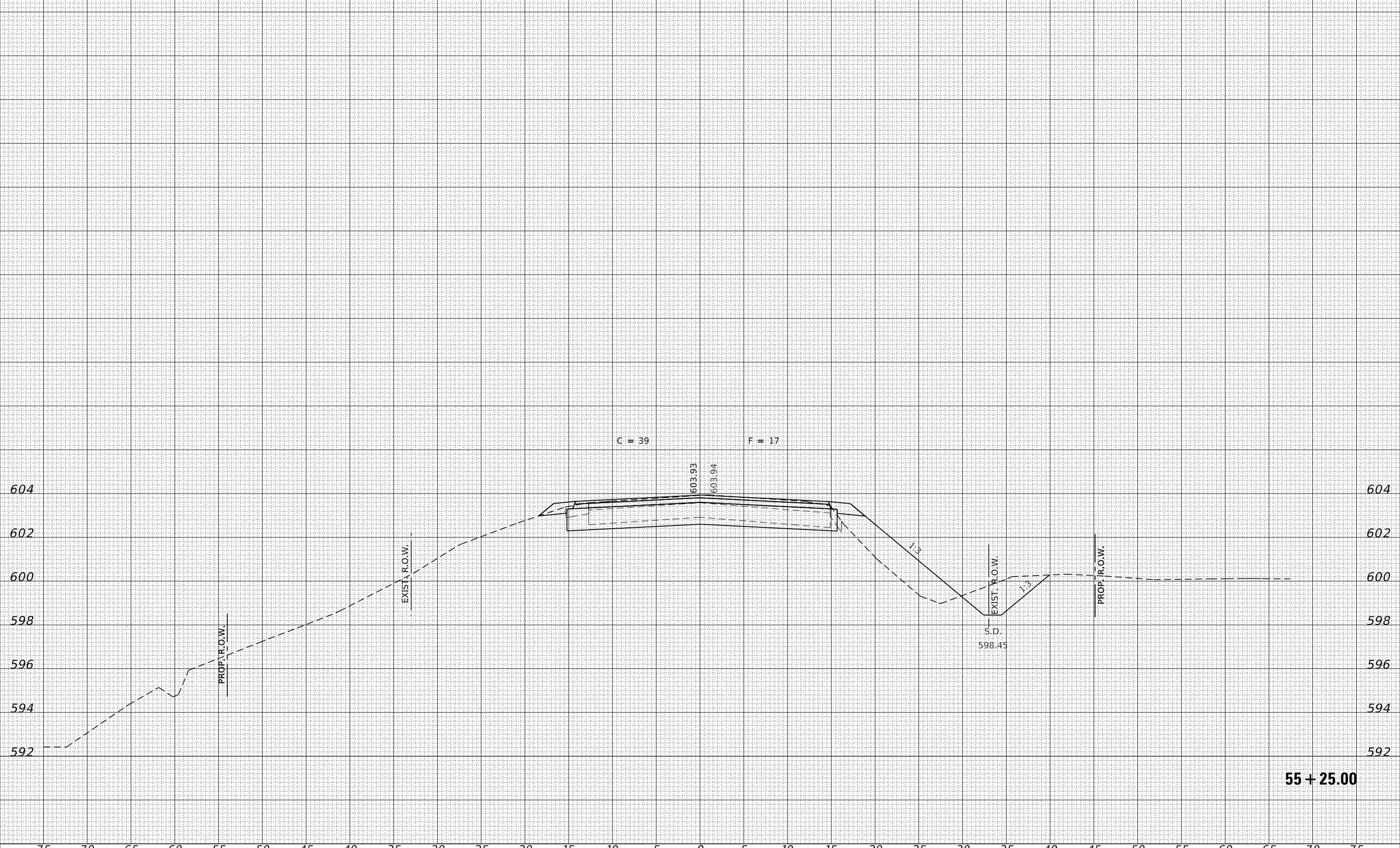
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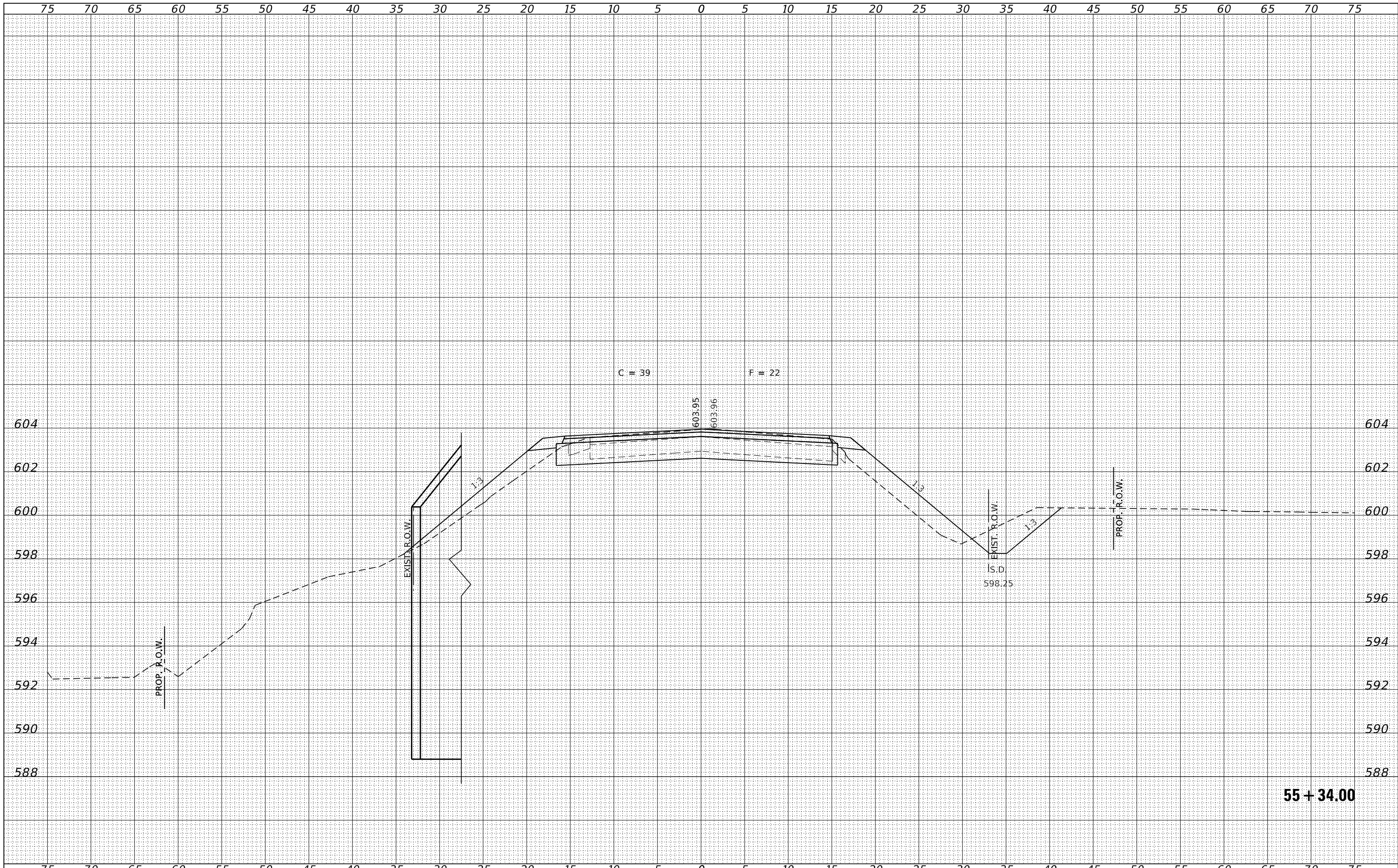


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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009958	PLOT SCALE = \$SCALES	DRAWN - R.D.H.	REvised -			108	21-07127-00-BR	KENDALL	39	20
PLOT DATE = 12/22/2022	DATE - 12/15/2022	CHECKED - S.W.M.	REvised -			NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		ILLINOIS FED. AID PROJECT 19N1(078)
SCALE: 5H:2V	SHEET NO. 4 OF 14 SHEETS	STA. 55+25.00 TO STA. 55+25.00								

DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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 DESIGNED - J.V.F
 DRAWN - R.D.H.
 CHECKED - S.W.M.
 DATE - 12/15/2022
 PLOT SCALE = \$Scales
 PLOT DATE = 12/22/2022

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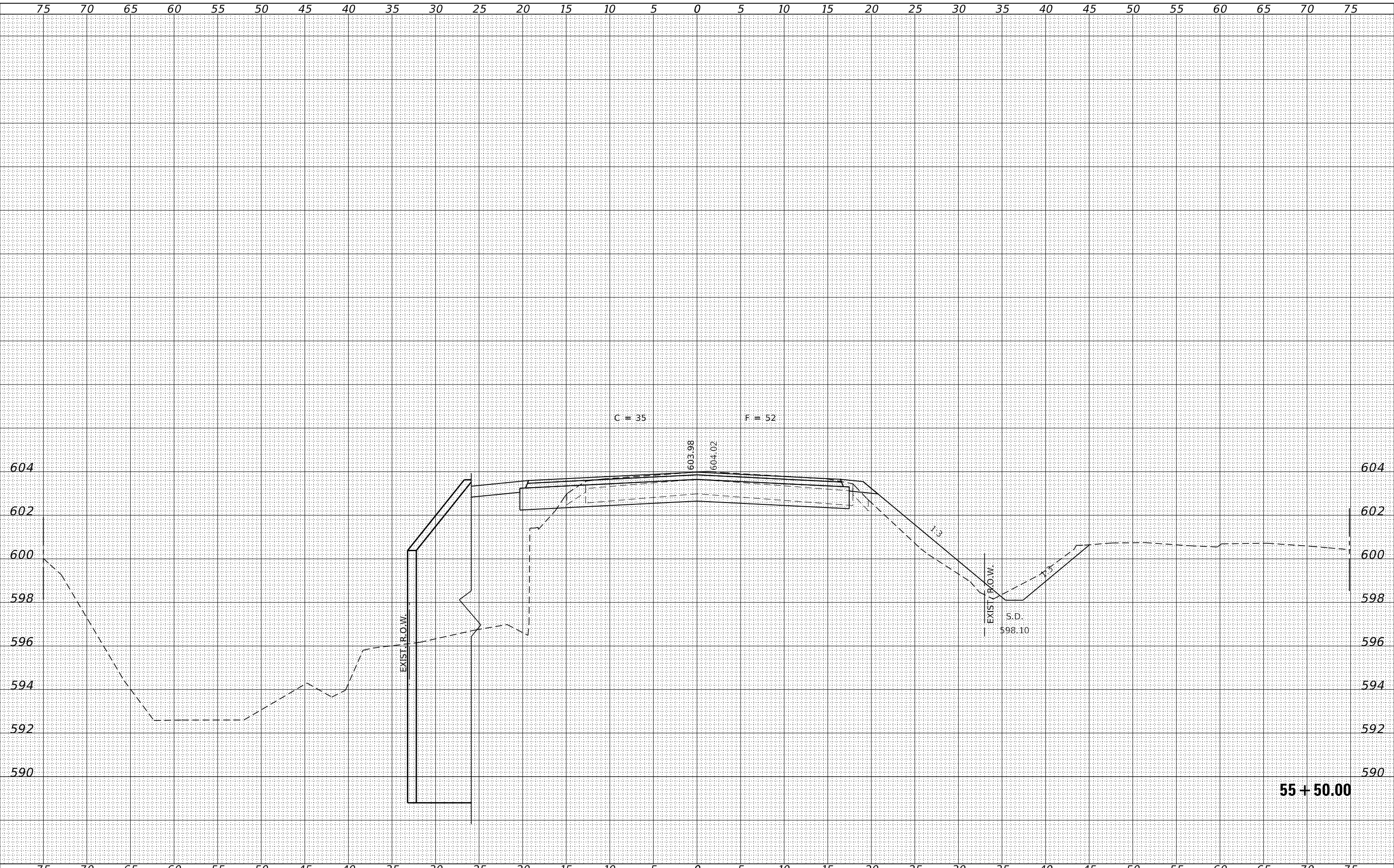
STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCHLAPP ROAD

SCALE: 5H:2V
 SHEET NO. 5 OF 14 SHEETS
 STA. 55+34.00 TO STA. 55+34.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	21
NA-AU-SAY TOWNSHIP			CONTRACT NO. 87795	

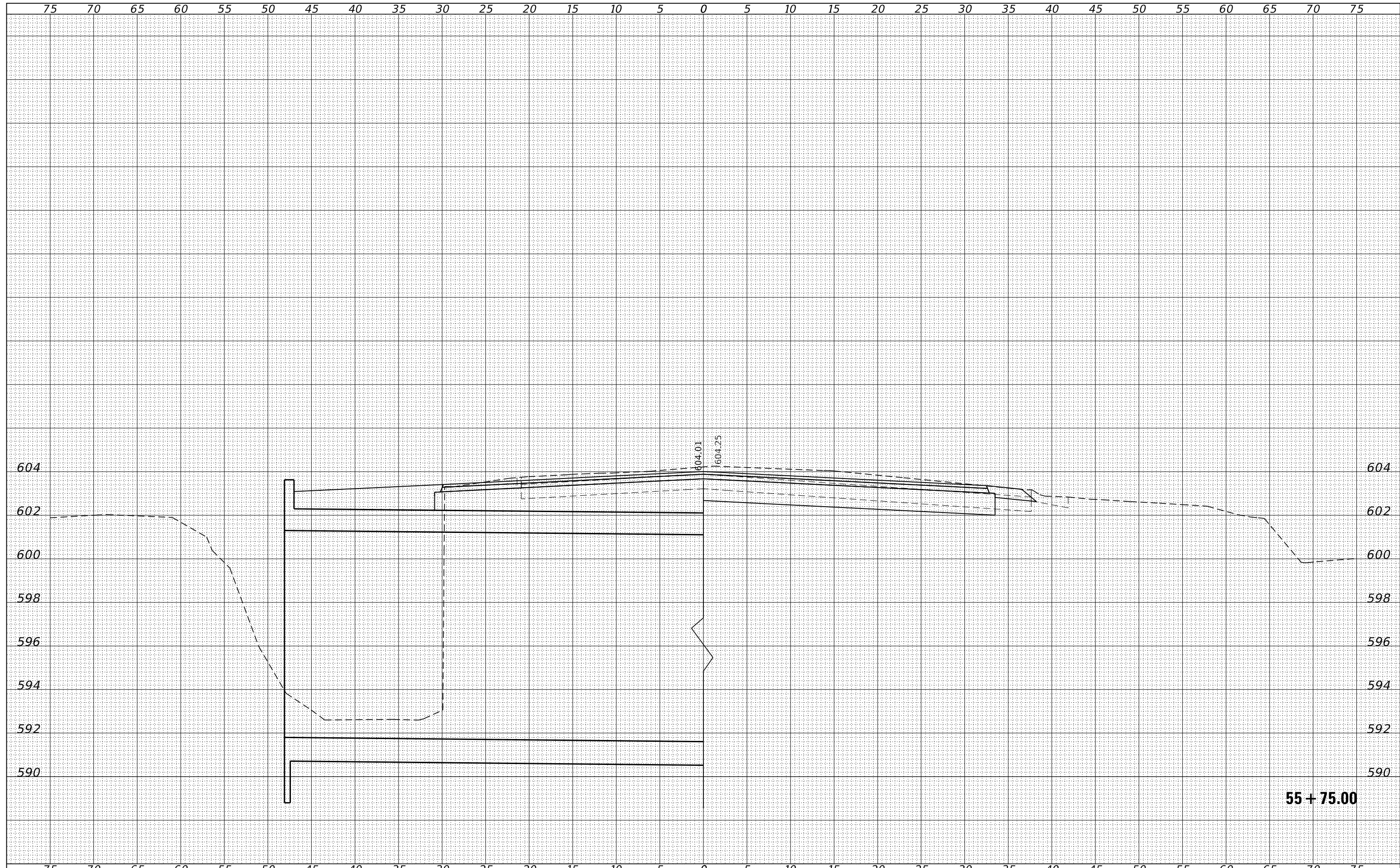
ILLINOIS FED. AID PROJECT 19N1(078)



DATE	BY	DATE	BY
SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184-009958	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -			108	21-07127-00-BR	KENDALL	39	22
PLOT DATE = 12/22/2022	DATE - 12/15/2022	CHECKED - S.W.M.	REVISED -			NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
		REVISOR -	REVISED -			SCALE: 5H:2V	SHEET NO. 6 OF 14 SHEETS	STA. 55+50.00 TO STA. 55+50.00	ILLINOIS FED. AID PROJECT 19N1(078)	

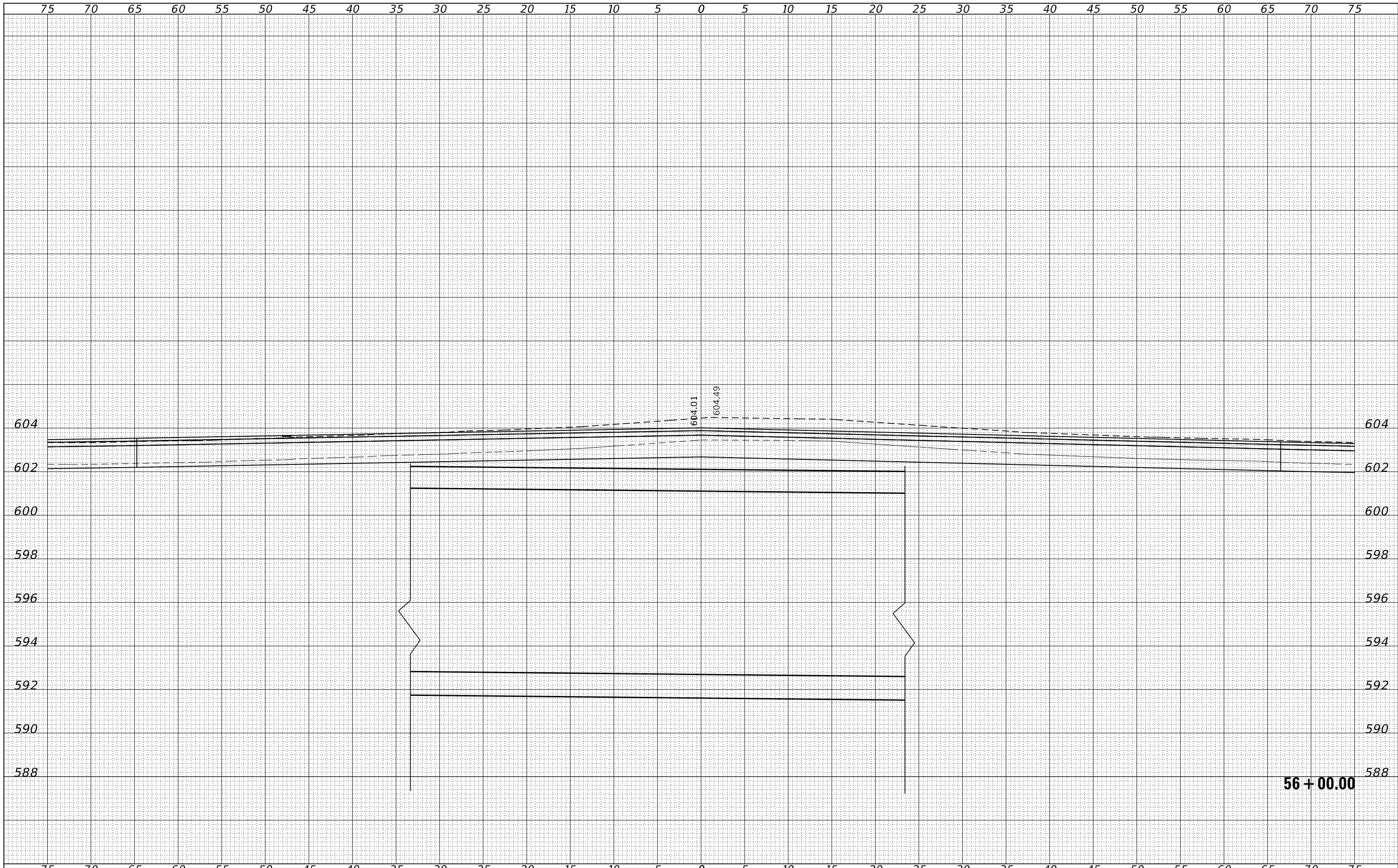


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	AREAS
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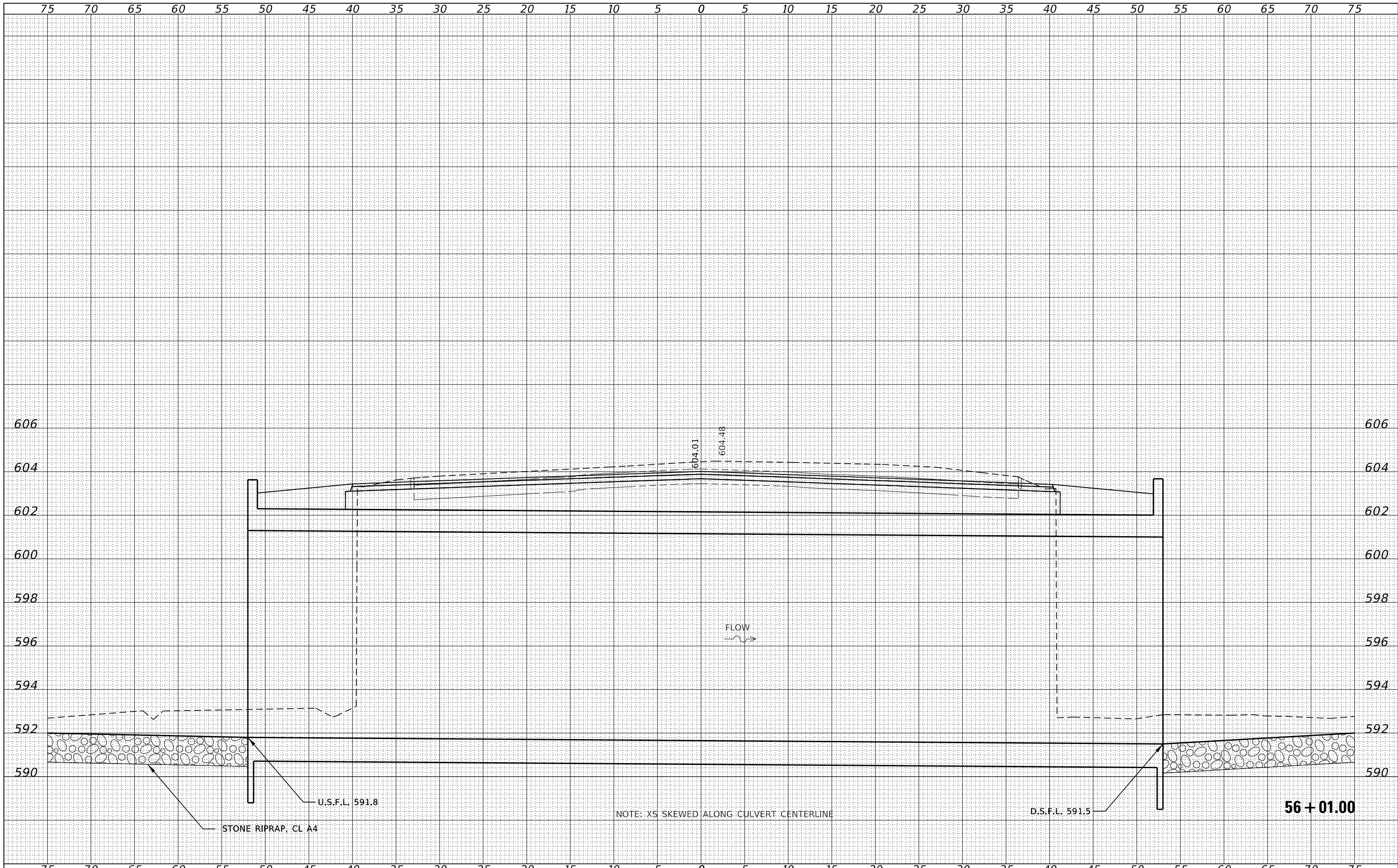
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56 + 00.00

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



FILE NAME = 210137-shl-xssheets.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000958

USER NAME = ofoley
 PLOT SCALE = \$\$SCALE\$
 PLOT DATE = 12/22/2022

DESIGNED - J.W.F.
 DRAWN - R.D.H.
 CHECKED - S.W.M.
 DATE - 12/15/2022

REVISED -
 REVISED -
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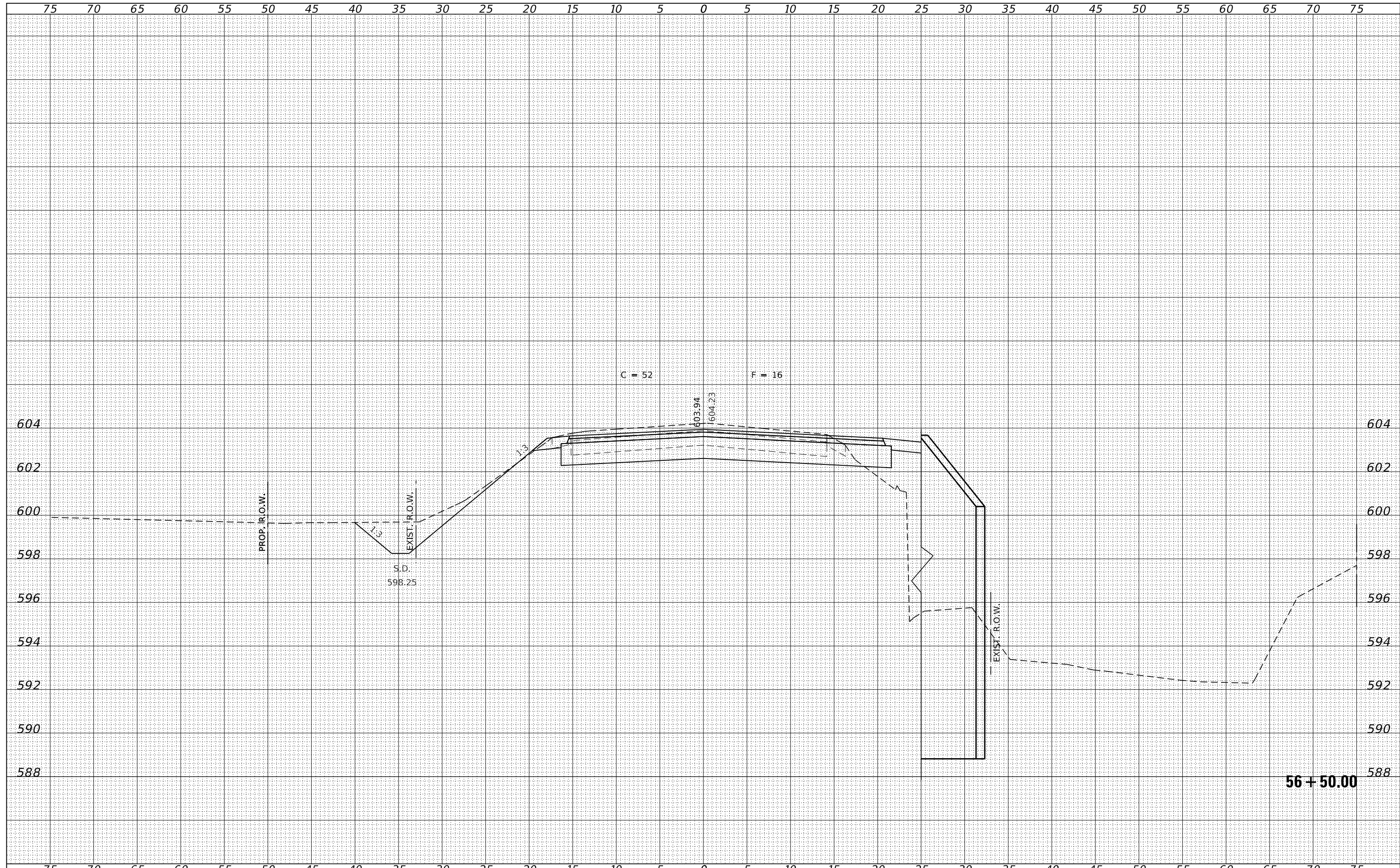
STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCHLAPP ROAD
 SCALE: 5H:2V
 SHEET NO. 9 OF 14 SHEETS
 STA. 56+01.00 TO STA. 56+01.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	25
NA-AU-SAY TOWNSHIP			CONTRACT NO. 87795	
ILLINOIS FED. AID PROJECT 19N1(078)				

DATE	
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TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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NOTE BOOK	
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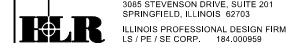
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 DESIGNED - J.W.F
 DRAWN - R.D.H.
 CHECKED - S.W.M.
 DATE - 12/15/2022
 PLOT SCALE = \$SCALES
 PLOT DATE = 12/22/2022

REVISIED -
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STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

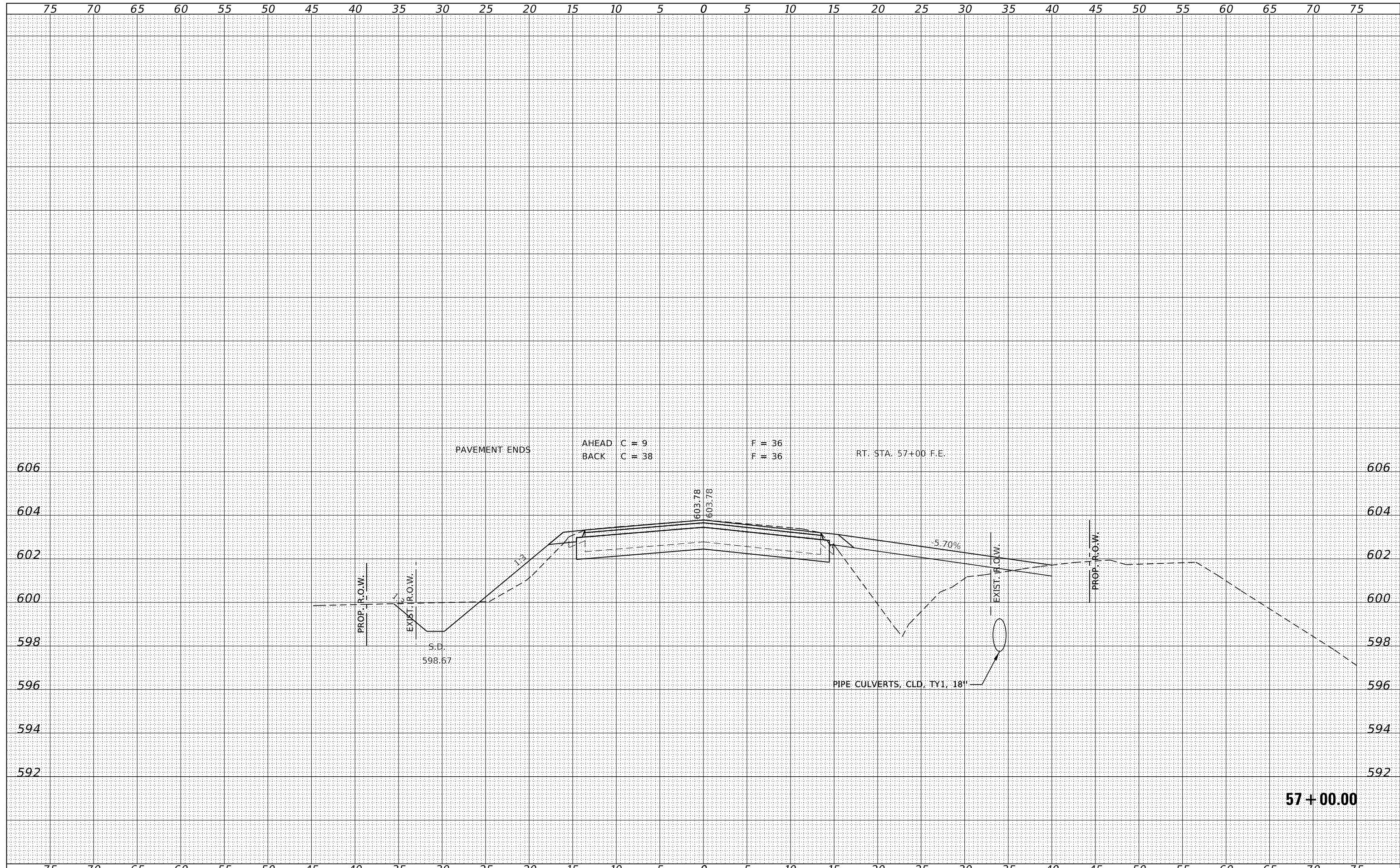
STATION CROSS SECTIONS
 SCHLAPP ROAD
 SCALE: 5H:2V
 SHEET NO. 10 OF 14 SHEETS
 STA. 56+50.00 TO STA. 56+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	26
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
ILLINOIS FED. AID PROJECT 19N1(078)				



DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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NO.	TEMPLATE
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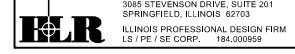
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 DATE - 12/15/2022
 PLOT SCALE = \$SCALES
 PLOT DATE = 12/22/2022

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STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

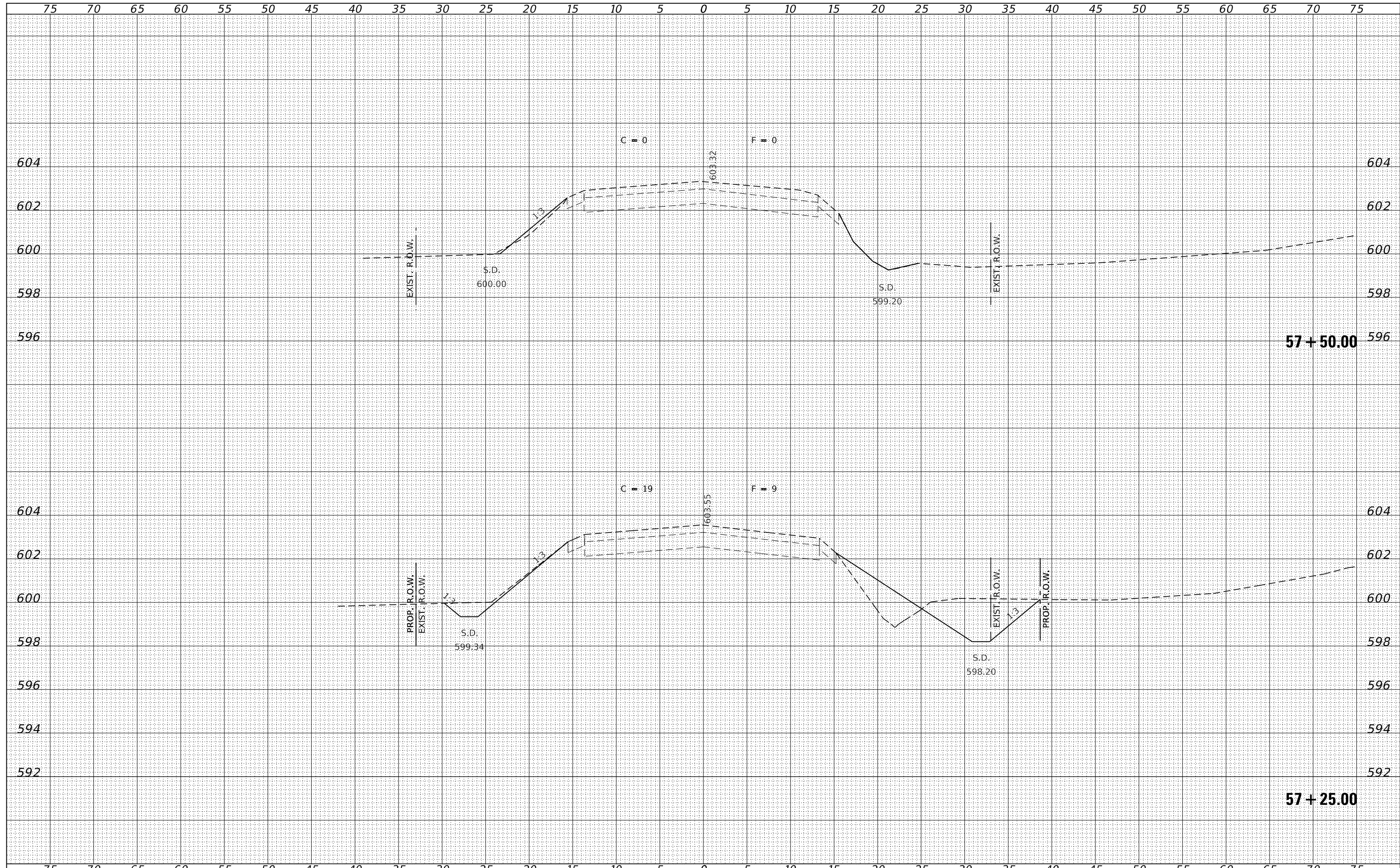
STATION CROSS SECTIONS
 SCHLAPP ROAD
 SCALE: 5H:2V
 SHEET NO. 12 OF 14 SHEETS
 STA. 57+00.00 TO STA. 57+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	28
NA-AU-SAY TOWNSHIP			CONTRACT NO. 87795	
ILLINOIS FED. AID PROJECT 19N1(078)				



DATE	
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NOTE BOOK	
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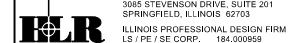
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 DATE - 12/15/2022
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 PLOT DATE = 12/22/2022

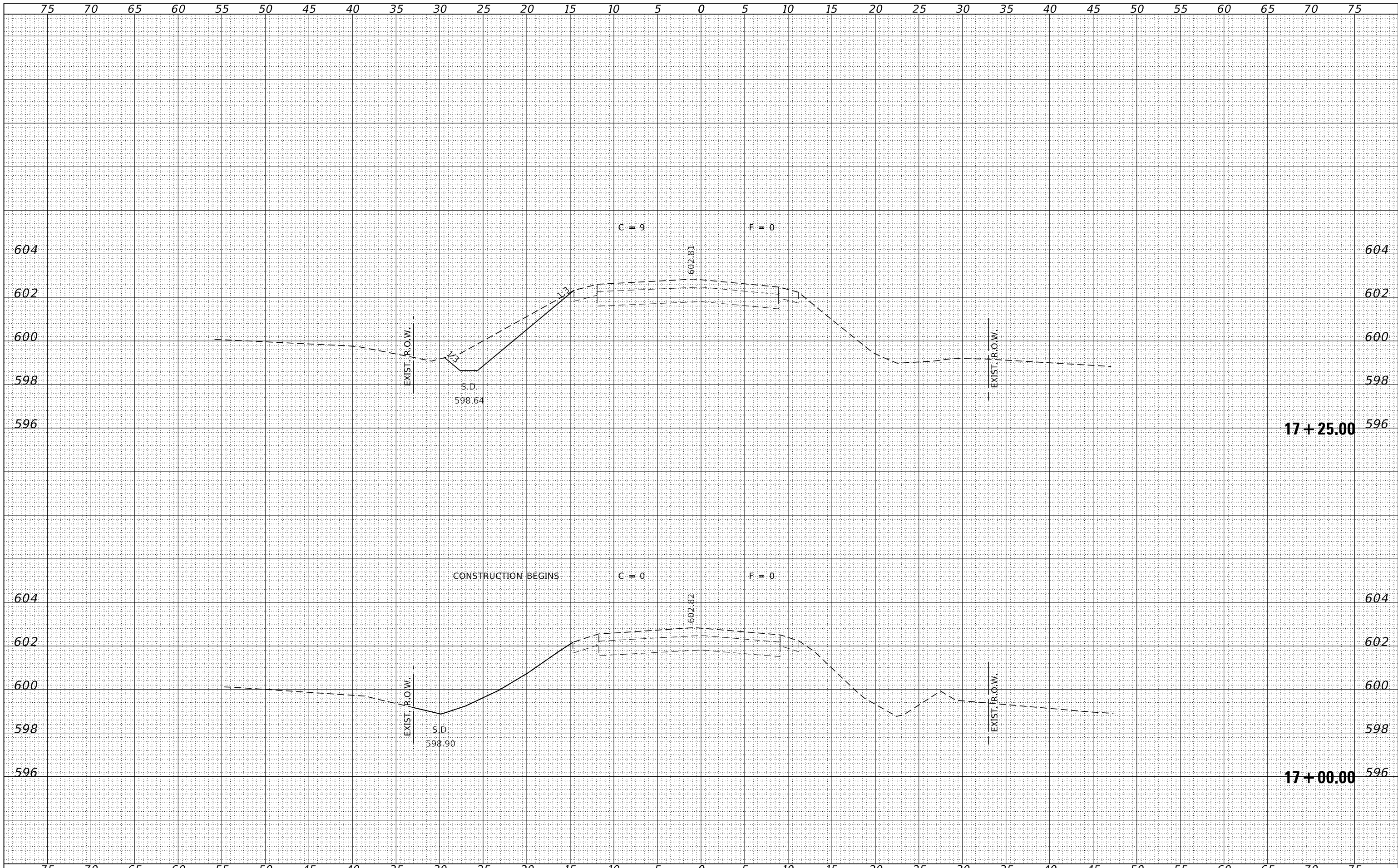
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STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCHLAPP ROAD
 SCALE: 5H:2V
 SHEET NO. 13 OF 14 SHEETS
 STA. 57+25.00 TO STA. 57+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
108	21-07127-00-BR	KENDALL	39	29
NA-AU-SAY TOWNSHIP			CONTRACT NO. 87795	
ILLINOIS FED. AID PROJECT 19N1(078)				



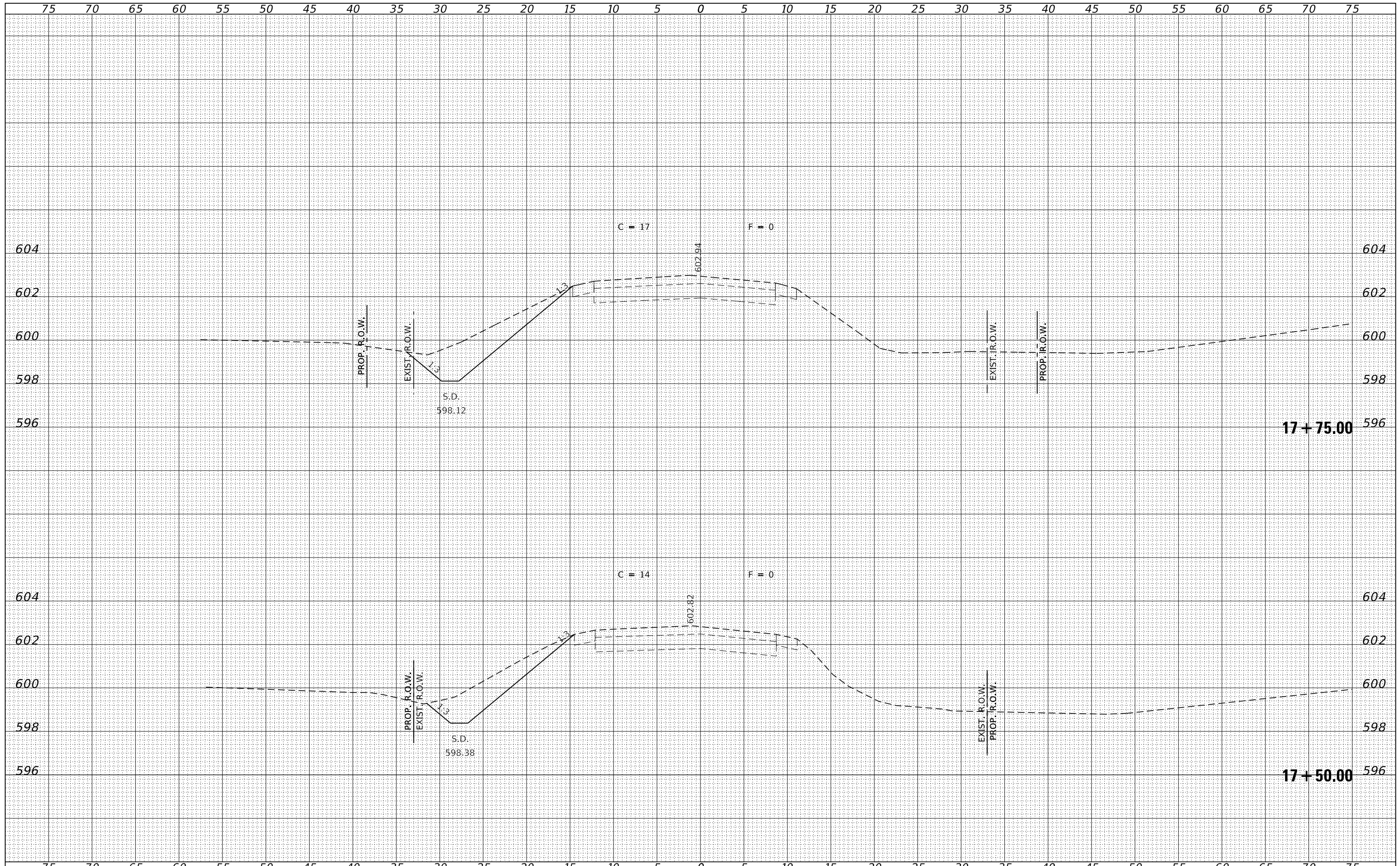


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FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AREAS CHECKED	



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 USER NAME = ofoley
 DESIGNED - J.W.F
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 CHECKED - S.W.M.
 DATE - 12/15/2022
 PLOT SCALE = \$SCALES
 PLOT DATE = 12/22/2022

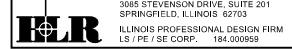
REVISIED -
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**STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
 WALKER ROAD**

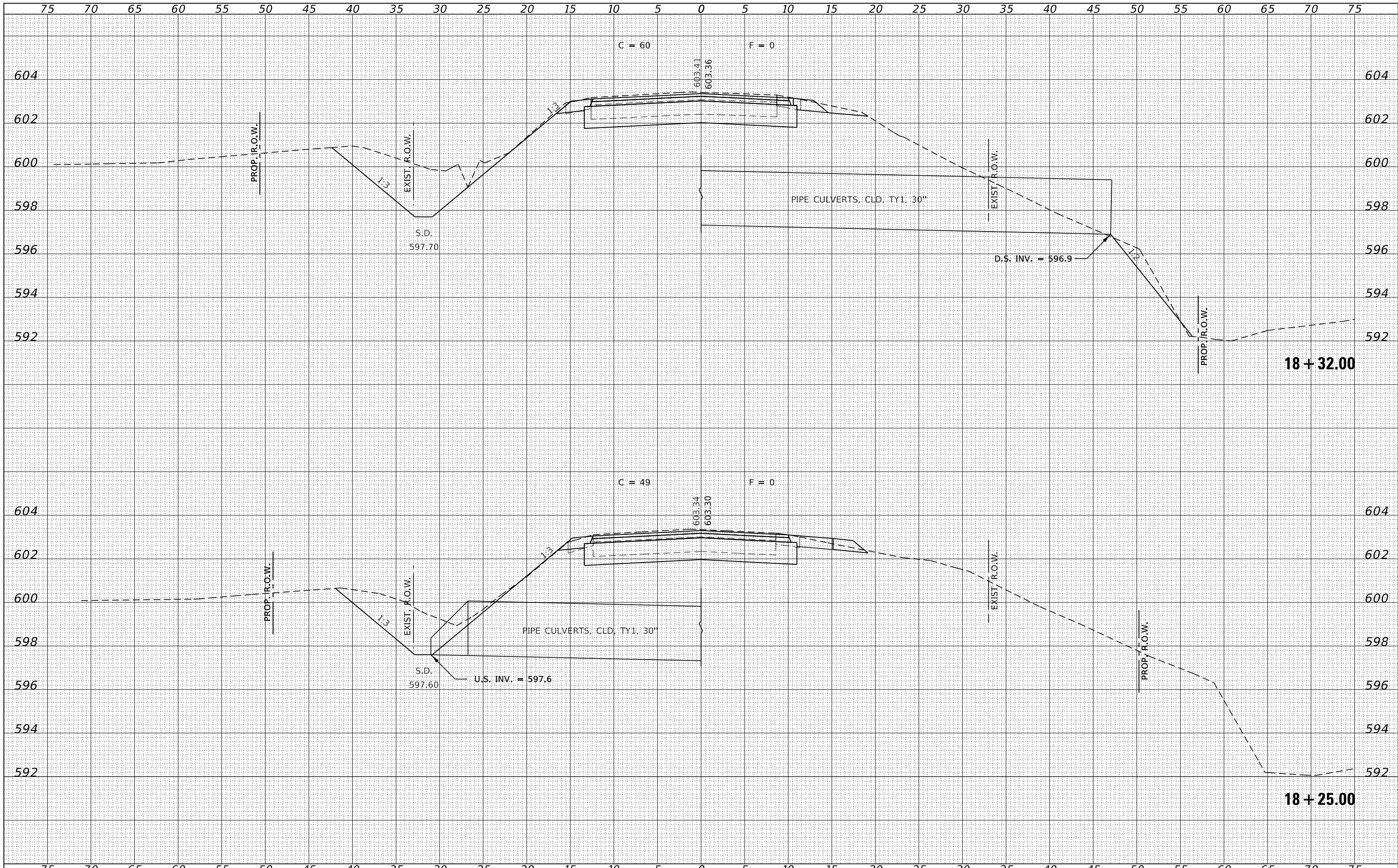
SCALE: 5H:2V SHEET NO. 3 OF 9 SHEETS STA. 17+50.00 TO STA. 17+75.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
58	21-07127-00-BR	KENDALL	39	33
NA-AU-SAY TOWNSHIP			CONTRACT NO. 87795	
ILLINOIS FED. AID PROJECT 19N(1078)				



DATE	
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TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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DATE	
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TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = 210137-shl-vssheets.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.009958

USER NAME = dfoley
 PLOT SCALE = \$SCALES
 PLOT DATE = 12/22/2022

DESIGNED - J.V.F.
 DRAWN - R.D.H.
 CHECKED - S.W.M.
 DATE - 12/15/2022

REVISED -
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 REVISED -

STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

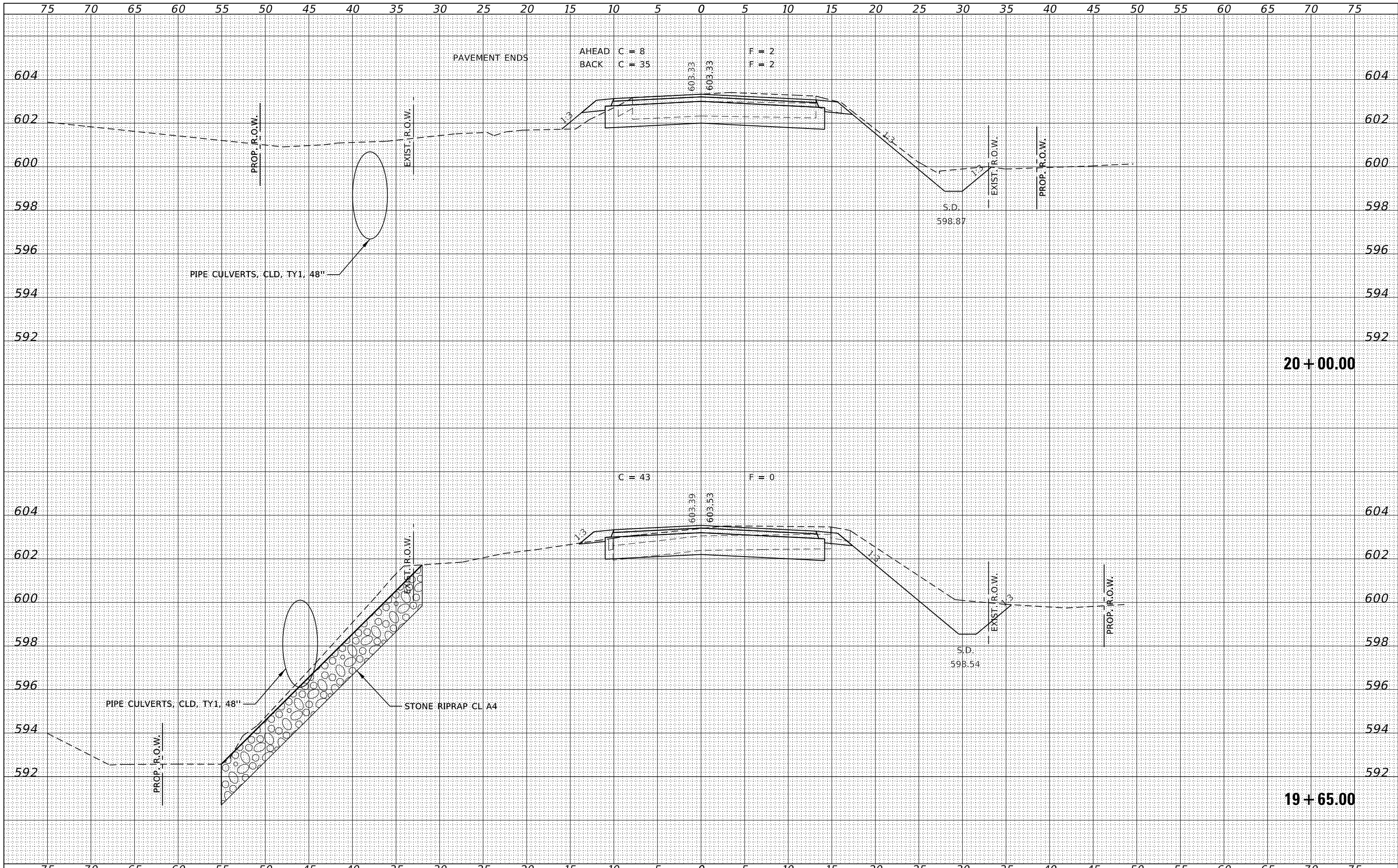
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 SHEET NO. 5 OF 9 SHEETS
 STA. 18+25.00 TO STA. 18+32.00

STATION CROSS SECTIONS
 WALKER ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
58	21-07127-00-BR	KENDALL	39	35
NA-AU-SAY TOWNSHIP			CONTRACT NO. 87795	
ILLINOIS FED. AID PROJECT 19N1(078)				

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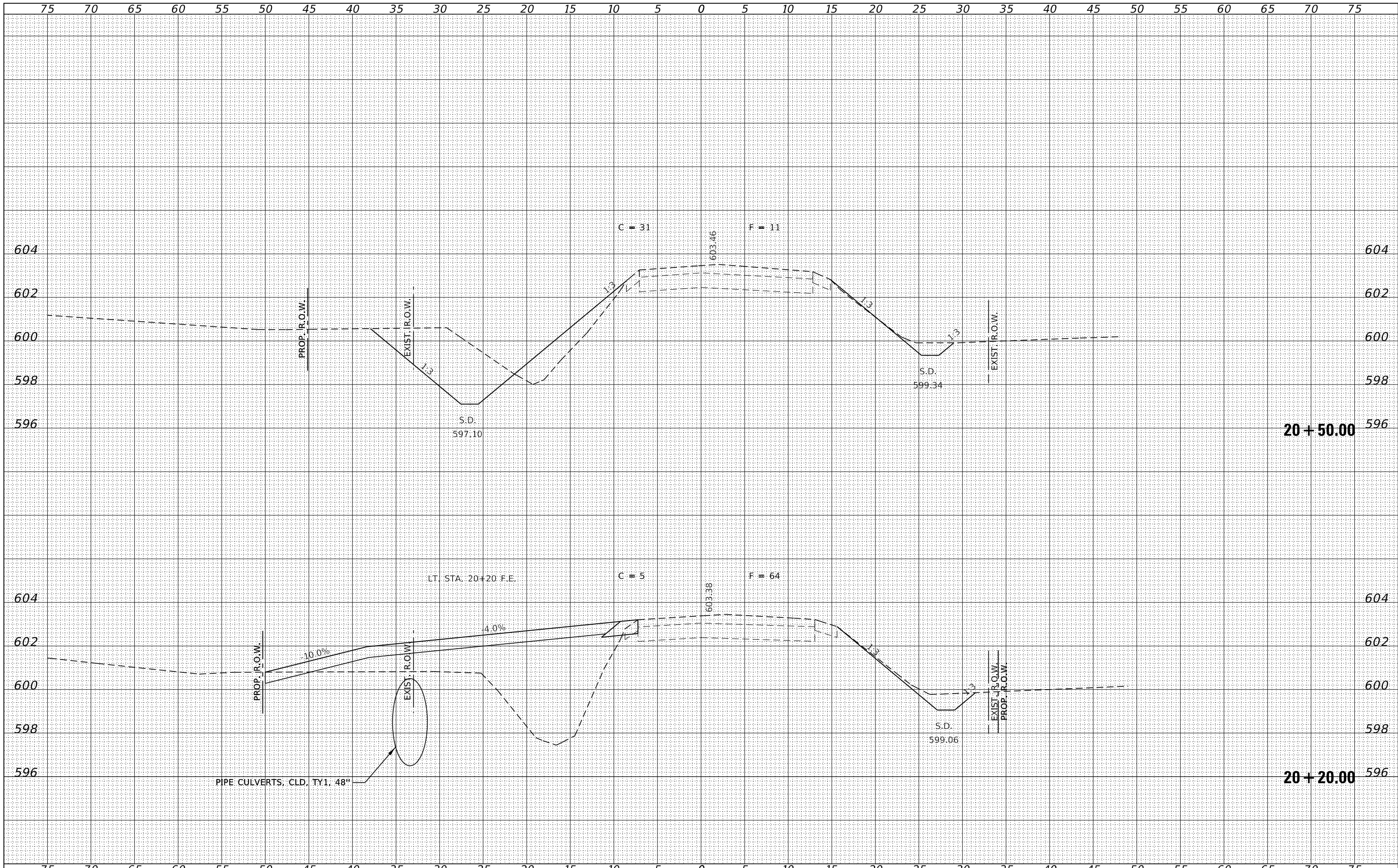
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NOTE BOOK	
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FILE NAME = 210137-shl-vssheets.dgn	USER NAME = ofoley	DESIGNED - J.W.F	REVISD -	STATE OF ILLINOIS KENDALL COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS WALKER ROAD		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000958	PLOT SCALE = \$SCALES	DRAWN - R.D.H.	REVISD -		58	21-07127-00-BR	KENDALL	39	36		
PLOT DATE = 12/22/2022	DATE - 12/15/2022	CHECKED - S.W.M.	REVISD -		NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795				
		DATE - 12/15/2022	REVISD -		SCALE: 5H:2V	SHEET NO. 6 OF 9 SHEETS	STA. 19+65.00 TO STA. 20+00.00	ILLINOIS FED. AID PROJECT 19N1(078)			

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

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

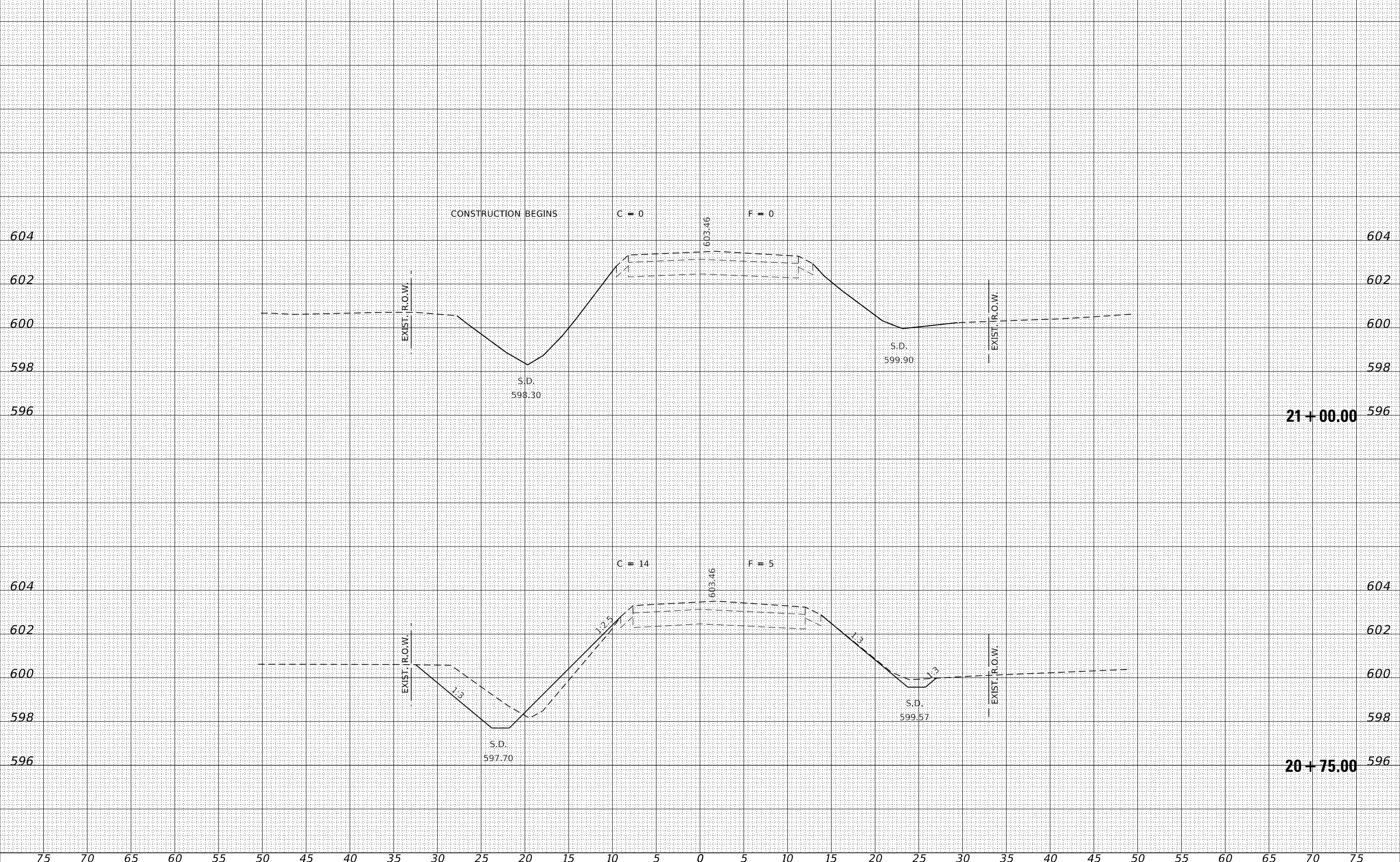


FILE NAME = 210137-shl-vssheets.dgn	USER NAME = ofoley	DESIGNED - J.V.F	REVISED -	STATE OF ILLINOIS KENDALL COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS WALKER ROAD	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.000958	DRAWN - R.D.H.	REVISED -	58			21-07127-00-BR	KENDALL	39	37	
PLOT SCALE = \$\$SCALE\$	CHECKED - S.W.M.	REVISED -	NA-AU-SAY TOWNSHIP			CONTRACT NO. 87795				
PLOT DATE = 12/22/2022	DATE - 12/15/2022	REVISED -	ILLINOIS			FED. AID PROJECT 19N1(078)				
SCALE: 5H:2V				SHEET NO. 7 OF 9 SHEETS		STA. 20+20.00 TO STA. 20+50.00				

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

BY	DATE

BY	DATE



21 + 00.00

20 + 75.00

FILE NAME = 210137-shl-vssheets.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.00959

USER NAME = ofoley
 DESIGNED - J.W.F.
 DRAWN - R.D.H.
 CHECKED - S.W.M.
 DATE - 12/15/2022
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 12/22/2022

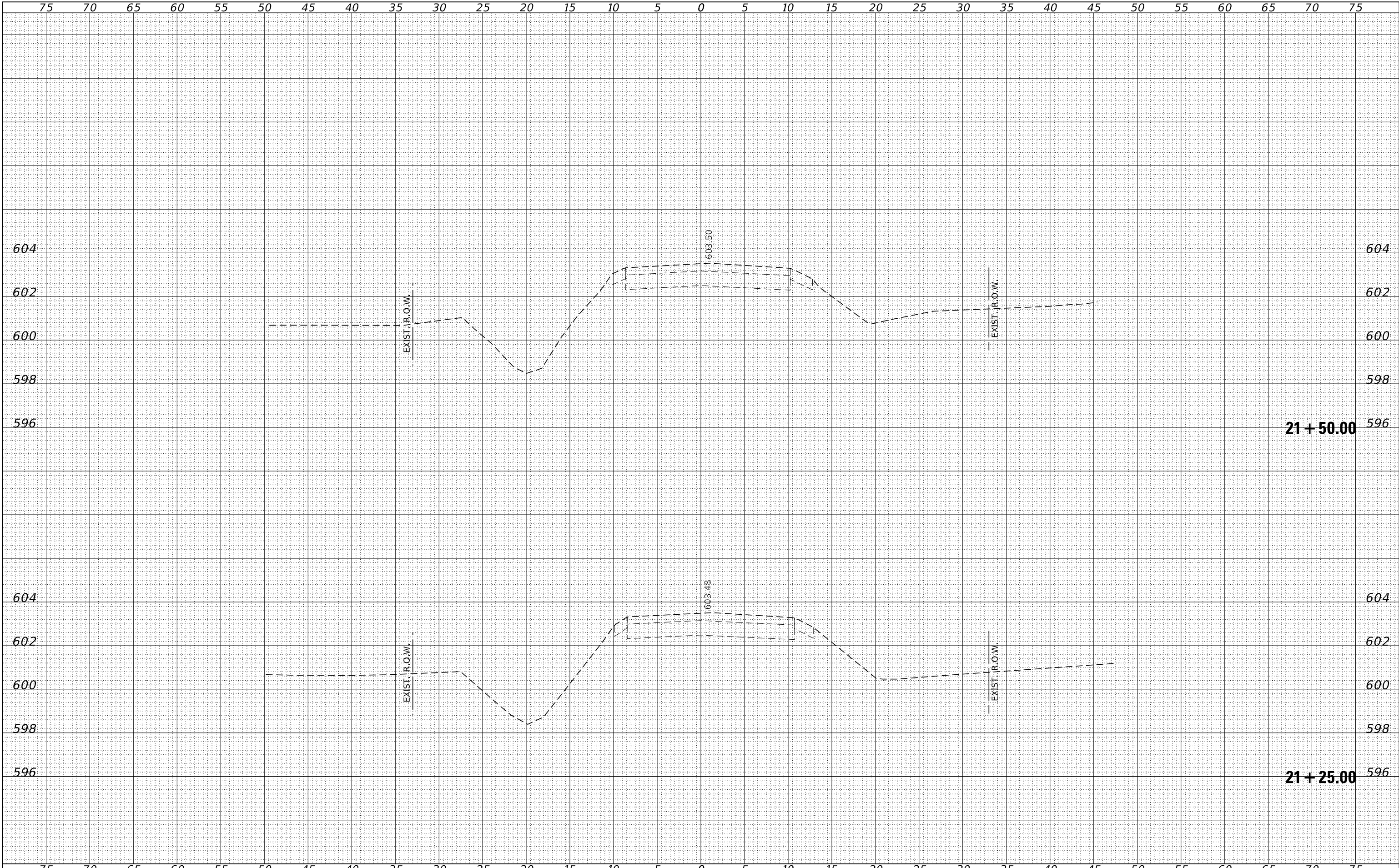
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STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 WALKER ROAD

SCALE: 5H:2V
 SHEET NO. 8 OF 9 SHEETS
 STA. 20+75.00 TO STA. 21+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
58	21-07127-00-BR	KENDALL	39	38
NA-AU-SAY TOWNSHIP			CONTRACT NO. 87795	
ILLINOIS FED. AID PROJECT 19N(1078)				



DATE
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ORIGINAL SURVEY
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FILE NAME = 210137-sh1-xssheets.dgn

HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-009958

USER NAME = dfoley

DESIGNED - J.W.F.
 DRAWN - R.D.H.
 CHECKED - S.W.M.
 DATE - 12/15/2022

PLOT SCALE = \$SCALE\$

PLOT DATE = 12/22/2022

REVISOR -
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STATE OF ILLINOIS
 KENDALL COUNTY HIGHWAY DEPARTMENT

**STATION CROSS SECTIONS
 WALKER ROAD**

SCALE: 5H:2V

SHEET NO. 9 OF 9 SHEETS

STA. 21+25.00 TO STA. 21+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
58	21-07127-00-BR	KENDALL	39	39
NA-AU-SAY TOWNSHIP		CONTRACT NO. 87795		
ILLINOIS FED. AID PROJECT 19N1(078)				