

THIS PROJECT IS LOCATED IN THE NE. 1/4 OF SECTION 27 AND NW. 1/4 OF SECTION 26, TOWNSHIP 6 NORTH, RANGE 10 WEST OF THE 3RD PRINCIPAL MERIDIAN, MADISON COUNTY, ILLINOIS

04-28-2017 LETTING ITEM 198

UTILITY LOCATION CAN BE OBTAINED BY CALLING J.U.L.I.E. (1-800-892-0123)

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE LIMITS OF THIS PROJECT WHICH MAY OR MAY NOT REQUIRE ADJUSTMENT OR RELOCATION:

**TELEPHONE:**  
AT&T  
203 GOETHE  
COLLINSVILLE, ILLINOIS 62234  
(618) 346-6400

**WATER:**  
ILLINOIS AMERICAN WATER CO.  
4436 INDUSTRIAL DRIVE  
ALTON, ILLINOIS 62002  
(618) 466-2131

**GAS & ELECTRIC:**  
AMEREN ILLINOIS  
700 OAKWOOD AVENUE  
ALTON, ILLINOIS 62002  
(618) 463-4043 GAS  
(618) 463-4051 ELEC.

**STORM SEWERS:**  
GODFREY PUBLIC WORKS DEPARTMENT  
6212 GODFREY ROAD  
GODFREY, ILLINOIS 62035  
(618) 466-3133

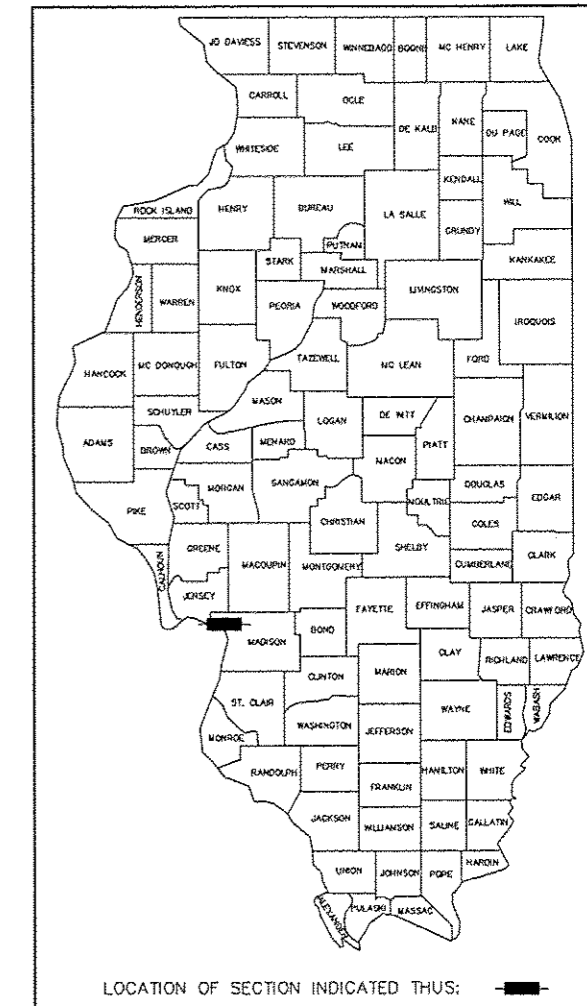
**CABLE TELEVISION:**  
CHARTER COMMUNICATIONS  
4767 SIGNATURE INDUSTRIAL DRIVE  
EDWARDSVILLE, ILLINOIS 62025  
(618) 307-5730

**SANITARY SEWERS:**  
GODFREY SEWER DEPARTMENT  
4725 BRECHT LANE  
GODFREY, ILLINOIS 62035  
(618) 466-3334

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY  
F.A.U. ROUTE 8950 (STAMPER LANE PHASE 2)  
VILLAGE OF GODFREY  
SECTION 14-00024-01-SW  
MADISON COUNTY  
PROJECT No. M-5011 (420)  
JOB No. C-98-338-14**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8950	14-00024-01-SW	MADISON	30	1
MADISON COUNTY		ILLINOIS	FED. AID PROJECT	
CONTRACT 97635				



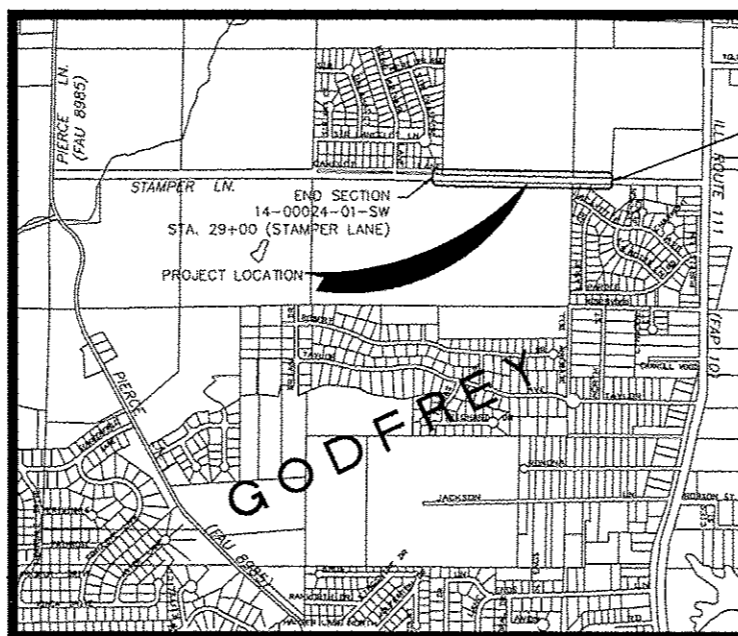
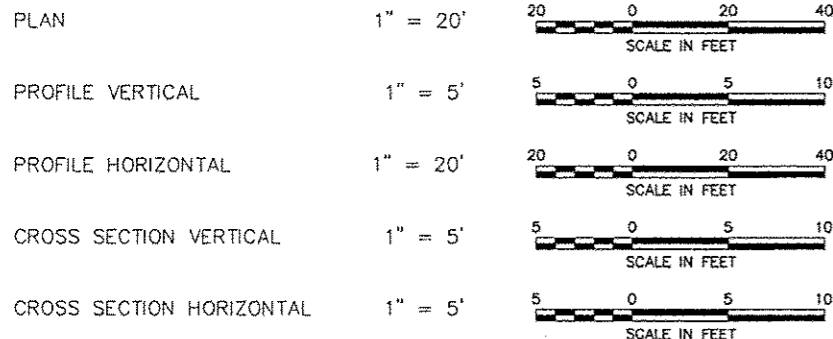
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12. TRAFFIC CONTROL AND PROTECTION PLAN
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14. PAVEMENT MARKING AND SIGNING PLAN
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**HIGHWAY STANDARDS**

280001-07	606001-06
424001-09	701001-02
424016-03	701006-05
542301-03	701011-04
601001-05	701501-06
602301-04	701801-06
602306-03	701901-06
602401-03	720001-01
602601-04	720006-04
602701-02	720011-01
604006-05	729001-01
604011-05	780001-05

**SCALES**



**LOCATION MAP**  
SCALE: 1" = 1000'

TOTAL LENGTH OF PROJECT = 2,000 FT. = 0.379 MILES

**SMS ENGINEERS** Sheppard, Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: ms@smsgengineers.com  
DESIGN FIRM # 184-000992

PROFESSIONAL ENGINEER  
ILLINOIS  
DATE: 2-8-17  
EXP. DATE: 11-30-2017  
DESIGN FIRM REGISTRATION NO. 184-000992

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED 2/9 2017  
*My? Mc...*  
VILLAGE PRESIDENT, GODFREY

PASSED 2/23 2017  
*F. Over...*  
DISTRICT 8 LOCAL ROADS AND STREETS ENGINEER

RELEASING FOR BID ON LIMITED REVIEW 2/23 2017  
*D. Kevin...*  
REGION 5 ENGINEER

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

ROADWAY CLASSIFICATION = URBAN COLLECTOR  
DESIGN SPEED = 30 M.P.H.  
CURRENT TRAFFIC = 2,750 A.D.T. (2016)  
DESIGN TRAFFIC = 3,040 S.D.T. (2036)

SUMMARY OF QUANTITIES

CONTRACT 97635

PAY ITEM	CODED PAY ITEM DESCRIPTION	UNIT	QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.1
20200100	EARTH EXCAVATION	CU YD	2,169
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
20800150	TRENCH BACKFILL	CU YD	238
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2
25100115	MULCH, METHOD 2	ACRE	1
25100630	EROSION CONTROL BLANKET	SQ YD	430
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	150
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300
28000305	TEMPORARY DITCH CHECKS	FOOT	100
28000400	PERIMETER EROSION BARRIER	FOOT	1150
28000500	INLET AND PIPE PROTECTION	EACH	29
28000510	INLET FILTERS	EACH	25
28100107	STONE RIPRAP, CLASS A4	SQ YD	160
28200200	FILTER FABRIC	SQ YD	160
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	6210
30201500	LIME	TON	200
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	189
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	55
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	115
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	25
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	12250
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1508
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	610
42000200	PORTLAND CEMENT CONCRETE PAVEMENT 7"	SQ YD	45
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	374
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	9200
42400800	DETECTABLE WARNINGS	SQ FT	85

PAY ITEM	CODED PAY ITEM DESCRIPTION	UNIT	QUANTITY
44000100	PAVEMENT REMOVAL	SQ YD	328
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	240
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	330
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	124
44000600	SIDEWALK REMOVAL	SQ FT	9200
44004250	PAVED SHOULDER REMOVAL	SQ YD	45
44201713	CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	6
50105220	PIPE CULVERT REMOVAL	FOOT	489
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTION 12"	EACH	2
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTION 30"	EACH	2
550A0050	STORM SEWERS, CLASS A, TYPE 1, 12"	FOOT	881
550A2380	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1, 30"	FOOT	6
550A2580	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2, 30"	FOOT	71
60107600	PIPE UNDERDRAINS 4"	FOOT	300
60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	5
60221200	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1
60222200	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 15 FRAME AND LID	EACH	1
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	10
60237000	INLETS, TYPE A, TYPE 15 FRAME AND LID	EACH	1
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	6
60240320	INLETS, TYPE B, TYPE 15 FRAME AND LID	EACH	1
60500060	REMOVING INLETS	EACH	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	4100
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6
67100100	MOBILIZATION	LSUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	200
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	67
72000100	SIGN PANEL-TYPE 1	SQ FT	38
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	67
72900200	METAL POST-TYPE B	FOOT	53
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3976
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	18

PAY ITEM	CODED PAY ITEM DESCRIPTION	UNIT	QUANTITY
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	72
78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	120
78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	24
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
X0327235	LOCATING UNDERGROUND UTILITIES	FOOT	250
X2500930	SEEDING, CLASS 1B (MODIFIED)	ACRE	1
X6024240	INLETS, SPECIAL	EACH	3
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
X7240311	RELOCATE EXISTING SIGN PANEL (SPECIAL)	EACH	1
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	371

△ SPECIALTY ITEMS

REVISIONS			

Sheppard, Morgan & Schwaab, Inc.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 618 North State St. Suite 400, St. Louis, IL 63102 314.455.9715 E-mail: ms@smgs.com  
**SMS ENGINEERS**

STAMPER LANE PHASE 2- GODFREY, ILLINOIS  
 FAU ROUTE 8950  
 14-00024-01-SW  
 SUMMARY OF QUANTITIES

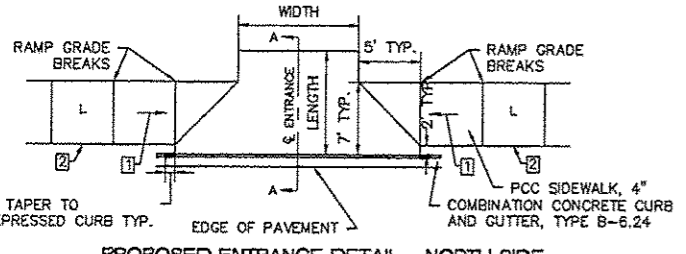
DWG. NO.	
DATE	FEB 2017
SCALE	NOT TO SCALE
SHEET	2 OF 30

**GENERAL NOTES**

- INFORMATION ON THE PLANS REGARDING UTILITIES IS TAKEN FROM THE BEST AVAILABLE RECORDS, BUT IS NOT REPRESENTED AS BEING CORRECT OR COMPLETE. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. IN ADVANCE OF CROSSING OVER OR UNDER UTILITIES.
- THE CONTRACTOR SHALL USE ALL DUE PRECAUTION NOT TO DAMAGE OR DISTURB UTILITIES. THE ENTIRE COST OF MAKING REPAIRS TO, OR REPLACEMENT OF, ANY DAMAGED LINE WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS SHOWN ON THE PLANS PRIOR TO FABRICATION OF DRAINAGE STRUCTURES.
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY THE ENGINEER TO CONTROL EROSION AND SEDIMENT DAMAGE TO ADJACENT PROPERTIES AND WATER RESOURCES. THIS WORK SHALL BE PERFORMED ACCORDING TO SECTION 280 OF THE STANDARD SPECIFICATIONS, HIGHWAY STANDARD 280001, THE EROSION CONTROL PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN.
- ALL EXCAVATIONS SHALL BE PROTECTED, IF NOT BACKFILLED THE SAME DAY, BY BARRICADES & APPROPRIATE LIGHTS. COSTS FOR PROVIDING ABOVE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION.
- PROVIDE EXPANSION JOINTS IN CURB AND GUTTER AT THE BEGINNING AND ENDING OF THE PROJECT, AT EACH SIDE OF INLETS PER HIGHWAY STANDARD 608001 AND IN BETWEEN AT MAXIMUM INTERVALS OF 100 FT SHALL BE PLACED IN THE CURB AND GUTTER. PROVIDE SPEED DOWEL INSERTS OR EXPANSION TUBES AT ALL EXPANSION JOINTS.
- PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS WERE CALCULATED BASED ON USING 112 LBS. / SQ. YD. / IN.
- UNLESS OTHERWISE PROVIDED FOR HEREIN, THE CONTRACTOR SHALL PROTECT AND RESTORE EXISTING TRAFFIC SIGNS IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AT LOCATIONS WHERE NEW SIGNS REPLACE EXISTING SIGNS, THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNS AND DELIVER THEM TO THE VILLAGE OF GODFREY STREET DEPARTMENT. THE COST OF THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

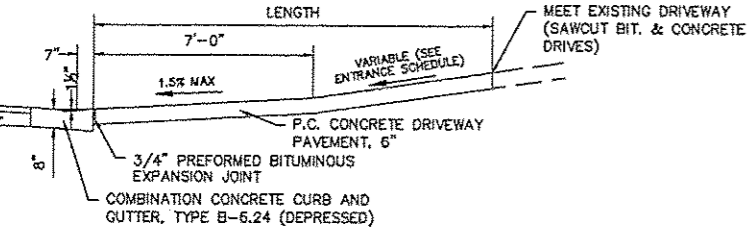
**PIPE UNDERDRAIN SCHEDULE**

LOCATION STA. TO STA.	PIPE UNDERDRAINS 4" (FOOT)
13+14 TO 13+39 LT.	25
13+39 TO 13+64 LT.	25
13+14 TO 13+39 RT.	25
13+39 TO 13+64 RT.	25
22+26 TO 22+51 LT.	25
22+51 TO 22+76 LT.	25
22+26 TO 22+51 RT.	25
22+51 TO 22+76 RT.	25
25+74 TO 25+99 LT.	25
25+99 TO 26+24 LT.	25
25+74 TO 25+99 RT.	25
25+99 TO 26+24 RT.	25
<b>TOTALS</b>	<b>300</b>

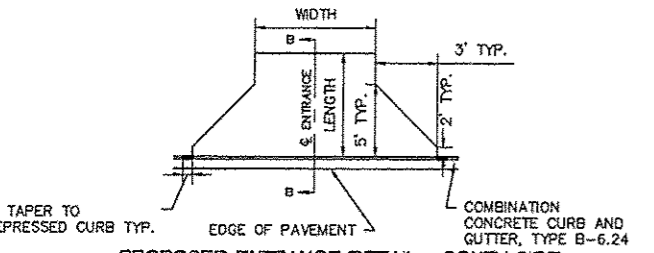


**PROPOSED ENTRANCE DETAIL - NORTH SIDE**  
N.T.S.

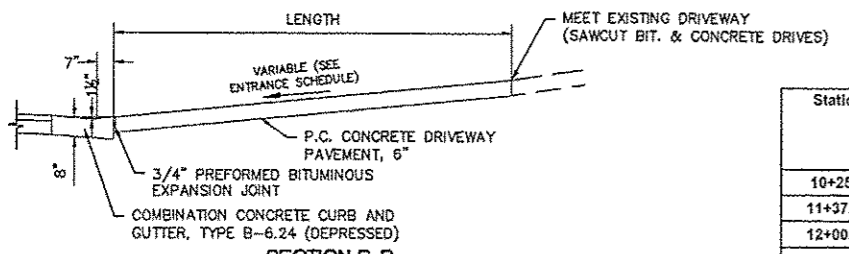
- NOTES:**
- 1 RAMP 1:12 MAX. OR 15' MAX. LENGTH
  - 2 LANDING ONLY REQUIRED IF RAMP EXCEEDS 5.00%



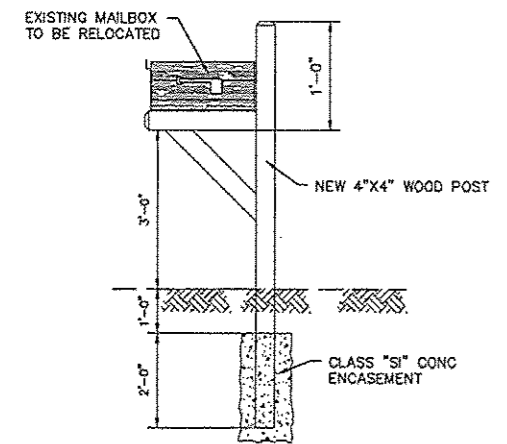
**SECTION A-A**  
N.T.S.



**PROPOSED ENTRANCE DETAIL - SOUTH SIDE**  
N.T.S.



**SECTION B-B**  
N.T.S.



**DETAIL - MAIL BOX SUPPORT**  
N.T.S.

**LEGEND**

- EXISTING UTILITY POLE - ○  
 EXISTING LIGHT POLE - X  
 EXISTING GUY WIRE - ←  
 EXISTING ELECTRIC SPICE BOX - □<sup>E</sup>  
 EXISTING TELEPHONE SPICE BOX - △  
 EXISTING CABLE SPICE BOX - □<sup>TV</sup>  
 EXISTING GAS METER - ⊙  
 EXISTING WATER METER - ⊙  
 EXISTING WATER VALVE - ⊕  
 EXISTING GAS VALVE - ⊙  
 EXISTING FIRE HYDRANT - ⊙<sup>FH</sup>  
 EXISTING SANITARY MANHOLE TOP - ⊙  
 EXISTING STORM MANHOLE TOP - ○  
 BENCHMARK - BM  
 RIGHT-OF-WAY MARKER - ⊙<sup>MON</sup>  
 AXLE FOUND - ○<sup>AXLE</sup>  
 BOLT FOUND - ○<sup>BOLT</sup>  
 CHISELED "X" FOUND - X  
 PIN FOUND - ○<sup>IP</sup>  
 PINCH PIPE FOUND - ○<sup>IP</sup>  
 PK NAIL FOUND - ○<sup>PK</sup>  
 RAILROAD SPIKE FOUND - ○<sup>RR</sup>  
 STONE FOUND - □<sup>STONE</sup>  
 BRASS MONUMENT FOUND - ○<sup>MON</sup>  
 IRON PIPE FOUND - ○<sup>IP</sup>  
 MONUMENT FOUND - □<sup>MON</sup>  
 REBAR FOUND - ○<sup>RBR</sup>  
 EXISTING MAILBOX - F  
 EXISTING FENCE POST - ⊕  
 EXISTING GATE POST - ⊕  
 EXISTING FLAG POLE - ⊕  
 EXISTING GUARD POST - ○<sup>GP</sup>  
 EXISTING ADVERTISING SIGN - ⊕  
 EXISTING TRAFFIC SIGN - ⊕  
 EXISTING TRAFFIC SIGNAL - ⊕  
 EXISTING TRAFFIC SIGNAL CONTROLLER - ⊕  
 EXISTING HANDHOLE - ⊕  
 EXISTING DOUBLE HANDHOLE - ⊕  
 EXISTING MAST ARM BASE - ○  
 EXISTING DECIDUOUS TREE / SIZE - ○<sup>XX</sup>  
 EXISTING EVERGREEN TREE / SIZE - ○<sup>XX</sup>  
 EXISTING STUMP / SIZE - ○<sup>XX</sup>  
 EXISTING BUSH - ⊕  
 EXISTING SHRUB - ⊕  
 EXISTING TREE TO BE REMOVED - X<sup>XX</sup>  
 PROPOSED TRAFFIC SIGN - ⊕  
 PROPOSED DECIDUOUS TREE / SIZE - ○<sup>XX</sup>  
 PROPOSED EVERGREEN TREE / SIZE - ○<sup>XX</sup>  
 PROPOSED BUSH - ⊕  
 PROPOSED PLANT - \*

**EXISTING CONSTRUCTION**

- EXISTING BRUSH / HEDGE / TREE LINE  
 500 EXISTING MAJOR CONTOUR  
 501 EXISTING MINOR CONTOUR  
 EXISTING CULVERT  
 EXISTING DITCH  
 EXISTING OVERHEAD ELECTRIC  
 EXISTING UNDERGROUND ELECTRIC  
 EXISTING EASEMENT  
 EXISTING FENCE  
 EXISTING FORCEMAIN  
 EXISTING GAS  
 EXISTING GUARDRAIL  
 EXISTING RIGHT-OF-WAY  
 EXISTING SANITARY SEWER  
 EXISTING SECTION LINE  
 EXISTING STORM SEWER  
 EXISTING UNDERGROUND TELEPHONE  
 EXISTING WATER

**PROPOSED CONSTRUCTION**

- PROPOSED CENTERLINE  
 PROPOSED CONSTRUCTION LIMITS  
 PROPOSED MAJOR CONTOUR  
 PROPOSED MINOR CONTOUR  
 PROPOSED CULVERT  
 PROPOSED DITCH  
 PROPOSED PERIMETER EROSION BARRIER  
 PROPOSED EASEMENT  
 PROPOSED RIGHT-OF-WAY  
 PROPOSED STORM SEWER  
 PROPOSED PAVEMENT REMOVAL  
 PROPOSED HOT-MIX ASPHALT  
 PROPOSED CONCRETE

**ENTRANCE SCHEDULE**

Station	Side	Length (ft)	Width (ft)	PCC Driveway Pavement, 6" (sq)	Driveway Pavement Removal (sq)	Proposed Grade (%)	Notes
10+25.2	South	12.1	12	20	21	12.94	TY, III Cement
11+37.78	South	9.7	12	20	12	11.68	TY, III Cement
12+00.34	South	8.4	11	15	17	5.79	-
13+02.91	South	6.2	24	19	-	10.42	-
16+59.56	North	21	14	40	-	1.7	-
16+62.37	North	17	20	45	-	10.01	-
16+96.61	North	26	12	35	27	4.91	-
16+96.61	South	6	12	10	19	1.27	-
17+72.83	South	6	29	20	63	8.2	-
19+60	South	-	-	-	16	-	Remove Only
19+97.69	North	16.3	24	60	12	6.19	-
22+10.52	North	18	35	80	76	5.58	-
24+26.54	South	3	55	20	67	0.61	-
<b>Total</b>				<b>374</b>	<b>330</b>		

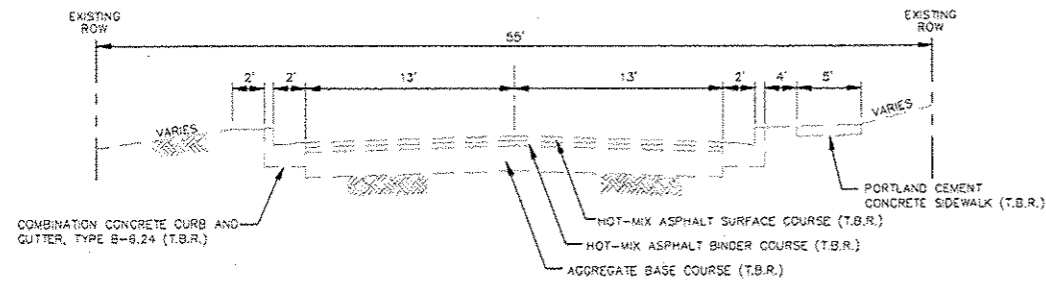
**EARTHWORK SCHEDULE**

LOCATION	EARTH EXCAVATION (CUT) (CU. YD.)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE * (CU. YD.)	EMBANKMENT (FILL) (CU. YD.)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU. YD.)	FURNISHED EXCAVATION (CU. YD.)
STA. 9+00 TO 20+50	698	524	468	56	0
STA. 20+50 TO 29+00 (END)	1471	1103	48	1055	0
<b>Total</b>	<b>2169</b>	<b>1627</b>	<b>516</b>	<b>1111</b>	<b>0</b>

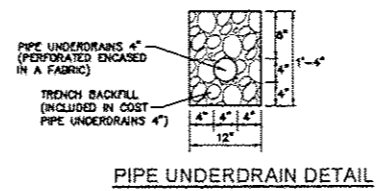
\* ASSUME SHRINKAGE FACTOR = 25%

**SMS** Sheppard, Morgan & Schwaab, Inc.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 215 Walnut Street, P.O. Box E, Avon, IL 60002 618/462-9765 E-mail: sms@smseng.com  
 DESIGN FIRM # 184-000982

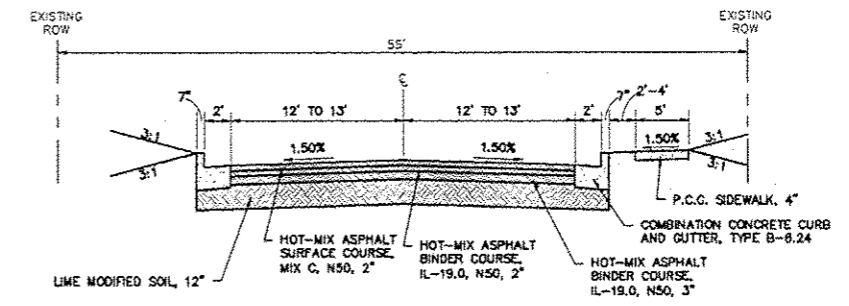
STAMPER LANE PHASE 2 - GODFREY, ILLINOIS  
 FAU ROUTE 8950  
 14-00024-01-SW  
 ENTRANCE SCHEDULE, DETAILS OF CONSTRUCTION,  
 GENERAL NOTES AND SMS LEGEND



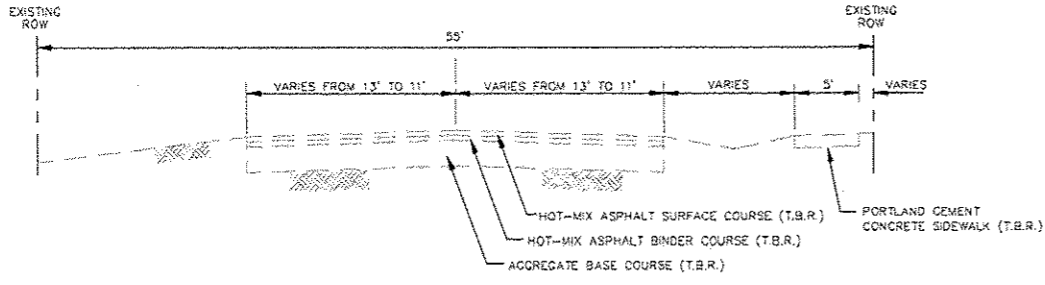
**EXISTING TYPICAL SECTION**  
STA 9+00 TO STA 9+12  
NOT TO SCALE



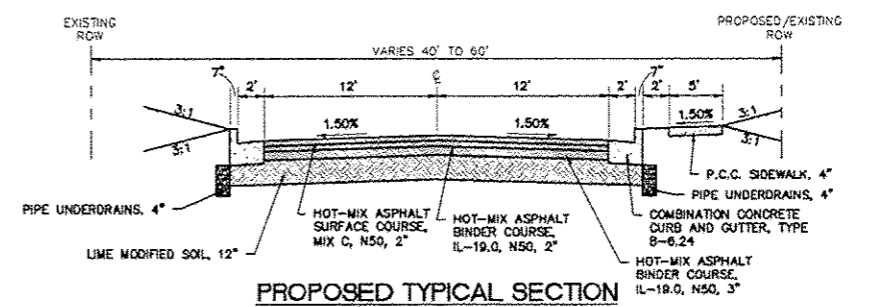
PIPE UNDERDRAIN DETAIL



**PROPOSED TYPICAL SECTION**  
STA. 9+00 TO STA. 9+52  
NOT TO SCALE



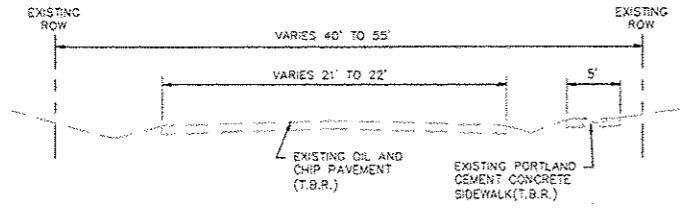
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STA 9+12 TO STA 10+07  
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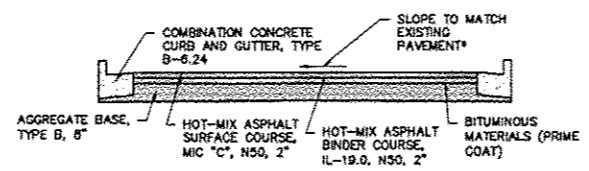
**PROPOSED TYPICAL SECTION**  
STA. 9+52 TO STA. 16+90  
NOT TO SCALE

MIX DESIGNS		
MIXTURE USE	SURFACE	BINDER
AC/PG	PG 70-22	PG 64-22
MAX. RAP %	*	*
DESIGN AIR VOIDS	4% @ NDES = 50	4% @ NDES = 50
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5 OR IL-12.5	IL-19.0
FRICTION AGG.	MIX C	MIX C

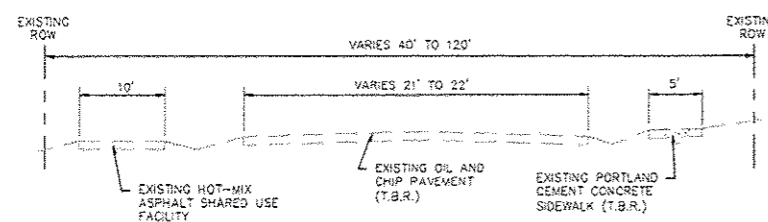
\* SEE SPECIAL PROVISIONS



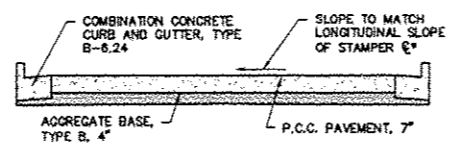
**EXISTING TYPICAL SECTION**  
STA. 10+07 TO STA. 16+90  
NOT TO SCALE



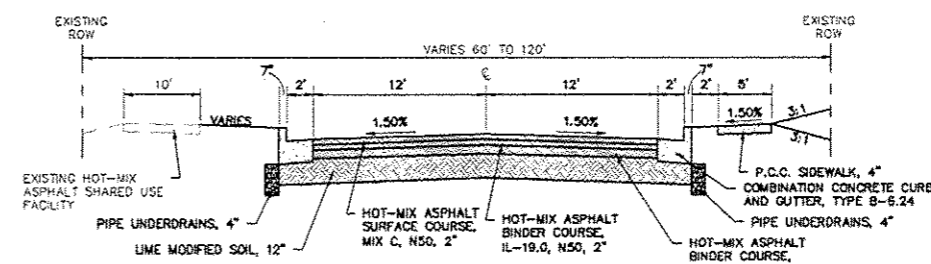
**PROPOSED TYPICAL SECTION**  
CAMELOT LANE (STA 27+79.04)  
NOT TO SCALE



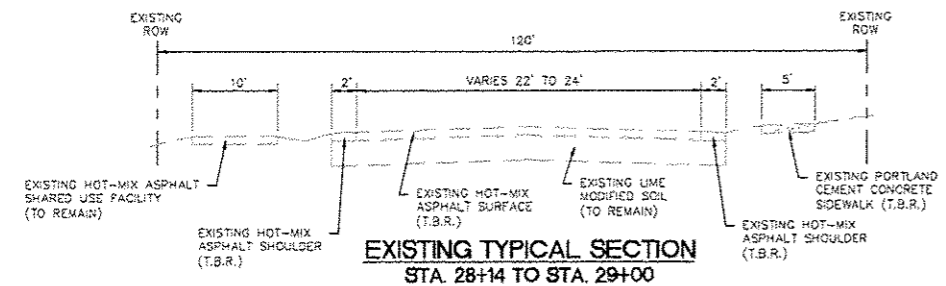
**EXISTING TYPICAL SECTION**  
STA. 16+90 TO STA. 28+14  
NOT TO SCALE



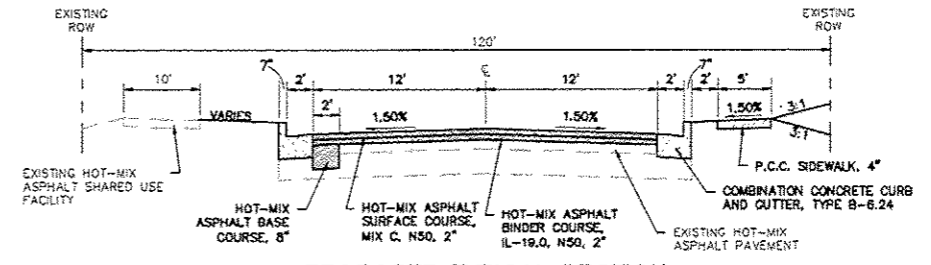
**PROPOSED TYPICAL SECTION**  
CAMELOT LANE (STA 27+79.04)  
NOT TO SCALE



**PROPOSED TYPICAL SECTION**  
STA. 16+90 TO STA. 28+14  
NOT TO SCALE



**EXISTING TYPICAL SECTION**  
STA. 28+14 TO STA. 29+00  
NOT TO SCALE



**PROPOSED TYPICAL SECTION**  
STA. 28+14 TO STA. 29+00  
NOT TO SCALE

**PAVEMENT DESIGN DATA**

DESIGN SPEED = 30 M.P.H.  
CLASS II STREET  
2016 AVERAGE DAILY TRAFFIC (A.D.T.) = 2,750  
2036 AVERAGE DAILY TRAFFIC (A.D.T.) = 3,040  
2028 STRUCTURAL DESIGN TRAFFIC (S.D.T.) = 2,900  
PASSENGER VEHICLES (P.V.) = 2,795 (95%)  
SINGLE UNITS (S.U.) = 115 (4%)  
MULTIPLE UNITS (M.U.) = 30 (1%)

**HMA PAVEMENT DESIGN**

SSR: POOR  
FLEXIBLE TRAFFIC FACTOR: 0.24  
SELECTED DESIGN PG BINDER: PG 70-22  
DESIGN PAVEMENT HMA TEMP: 82°F  
DESIGN HMA MODULUS (E<sub>AC</sub>): 500 ksi  
DESIGN HMA MICROSTRAIN: 220  
PAVEMENT THICKNESS: 7"  
SUBGRADE: LIME MODIFIED

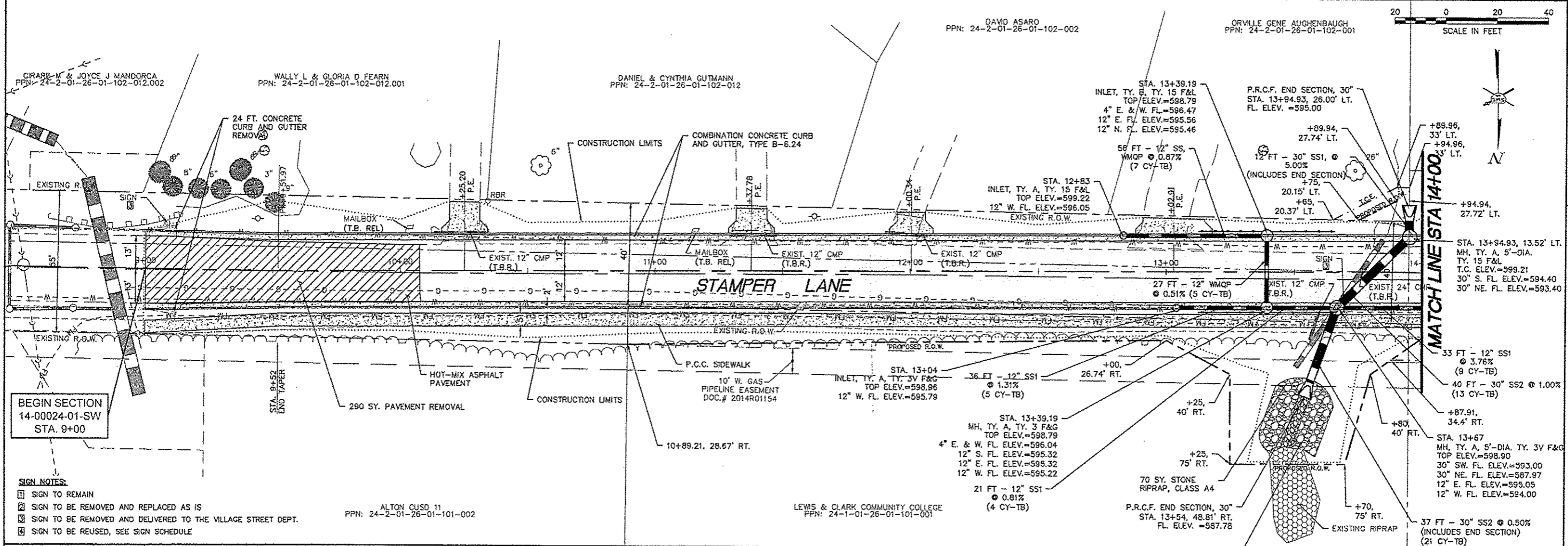
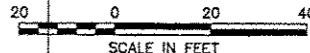
REVISIONS

**SMS ENGINEERS**  
Sheppard, Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
255 Market Street, P.O. Box 410, Alton, IL 62002 618/282-3753 Email: ms@smsengineers.com  
DESIGN FIRM # 184-00892

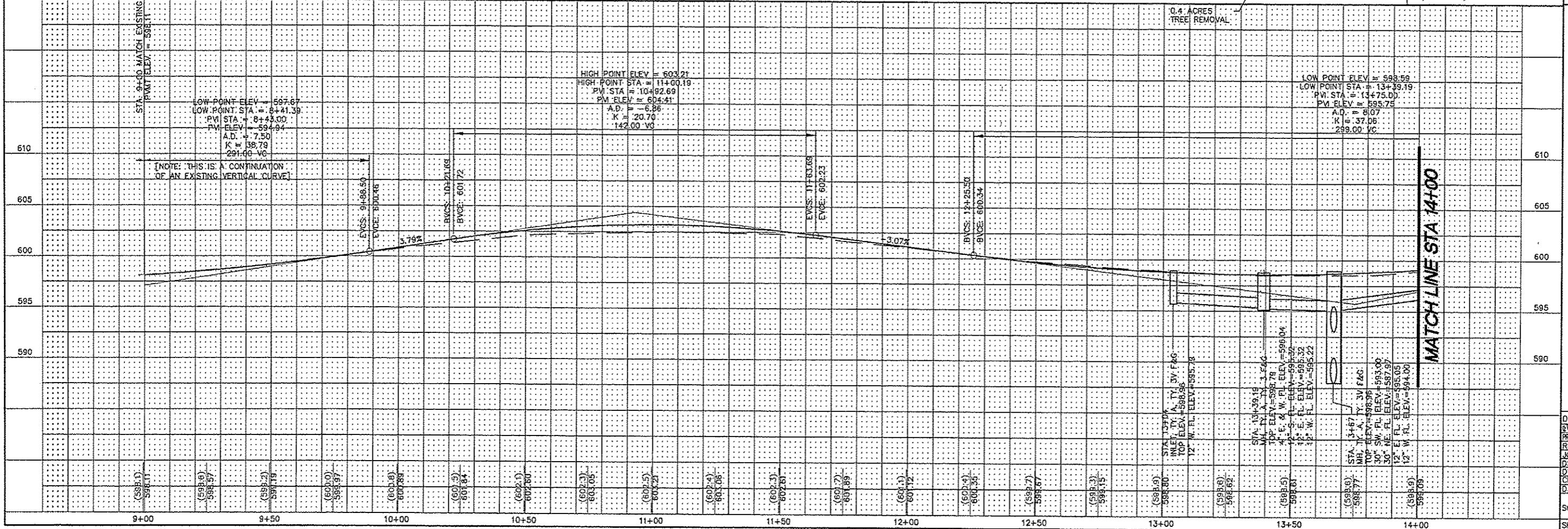
STAMPER LANE PHASE 2- GODFREY, ILLINOIS  
FAU ROUTE 8950  
14-00024-01-SW  
EXISTING AND PROPOSED TYPICAL SECTIONS

DWG. NO.	14-00024-01-SW
PROJ. NAME	STAMPER LANE PHASE 2 IMPROVEMENTS
REF. BK.	PG.
JOB NO.	438779
DSN. BY.	SWJ
OWN. BY.	CAD
CHK. BY.	SWJ
DATE:	FEB, 2017
SCALE:	NOT TO SCALE
SHEET:	4 OF 30





- SIGN NOTES:**
- ☐ SIGN TO REMAIN
  - ☒ SIGN TO BE REMOVED AND REPLACED AS IS
  - ☓ SIGN TO BE REMOVED AND DELIVERED TO THE VILLAGE STREET DEPT.
  - ☑ SIGN TO BE REUSED, SEE SIGN SCHEDULE



NO.	DESCRIPTION

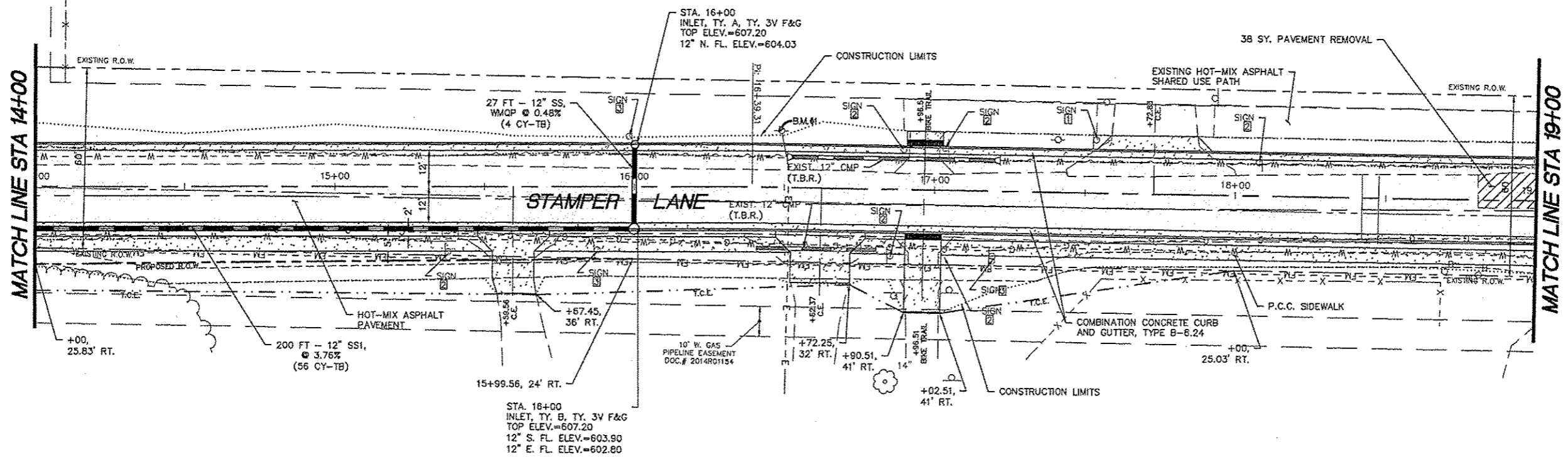
**SMS ENGINEERS**  
 Sheppard, Morgan & Schwaab, Inc.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 213 Market Street, P.O. Box E, Alton, IL 62002 618-462-9155 E-mail: mail@smsengr.com  
 DESIGN FIRM # 184-000992

STAMPER LANE PHASE 2- GODFREY, ILLINOIS  
 FAU ROUTE 8950  
 14-00024-01-SW  
 PLAN AND PROFILE

DWG. NO.	14-00024-01-SW
REVISED FROM	14-00024-01-SW
PROJ. DWS	PHASE 2 RHYTH P-F.DWG.
REF. BK.	P.C.
JOB NO.	438779
DSN. BY:	SWW
OWN. BY:	CSO
CHK. BY:	CSW
DATE:	FEB. 2017
SCALE:	HORT: 1" = 20' VERT: 1" = 5'
SHEET:	5 OF 30

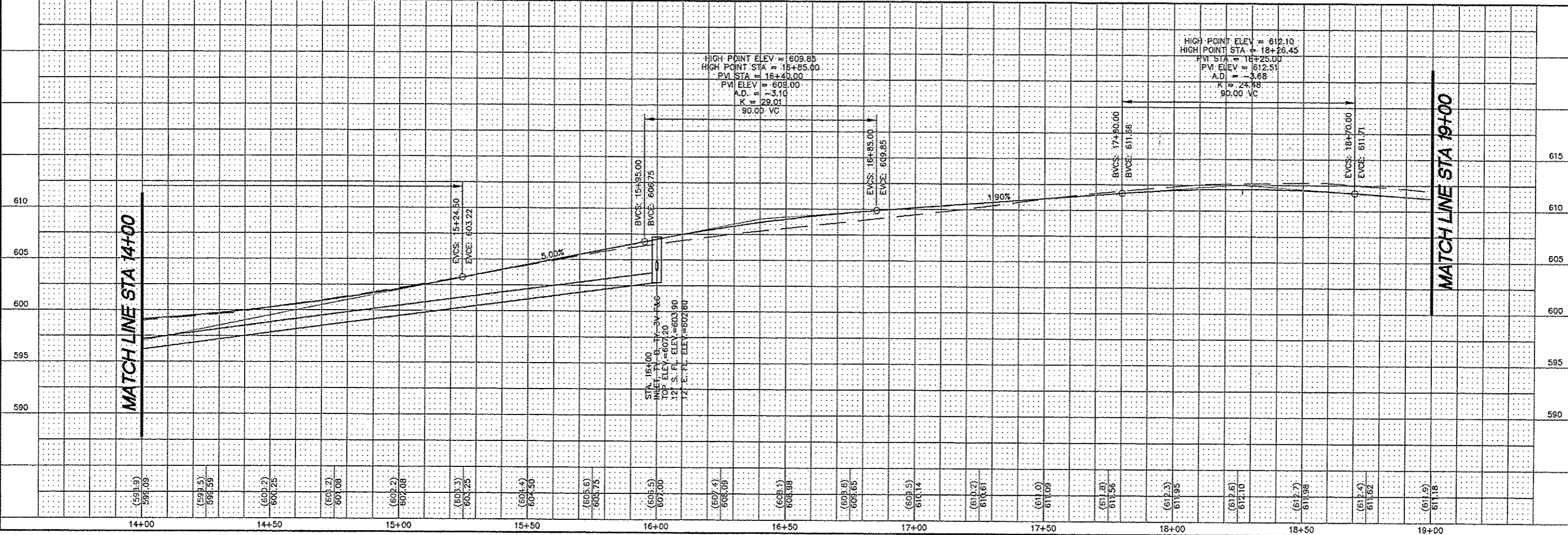


VILLAGE OF GODFREY  
PPN: 24-1-01-27-00-000-004



- SIGN NOTES:**
- 1 SIGN TO REMAIN
  - 2 SIGN TO BE REMOVED AND REPLACED AS IS
  - 3 SIGN TO BE REMOVED AND DELIVERED TO THE VILLAGE STREET DEPT.
  - 4 SIGN TO BE REUSED, SEE SIGN SCHEDULE

LEWIS & CLARK COMMUNITY COLLEGE  
PPN: 24-1-01-27-00-000-003

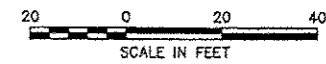


STAMPER LANE PHASE 2- GODFREY, ILLINOIS  
FAU ROUTE 8950  
14-00024-01-SW  
PLAN AND PROFILE

REVISIONS

**SMS ENGINEERS**  
Sheppard, Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
245 Market Street, P.O. Box 8, Alton, IL 62002 618-682-8755 Email: msl@smsengineers.com  
DESIGN FIRM # 184-000992

DWG. NO.	14-00024-01-SW
PROJ. NO.	14-00024-01-SW
REF. BIC	PG
JOB NO.	438779
CSN. BY:	CSJW
CHK. BY:	CSAD
DATE:	FEB, 2017
SCALE:	HORT: 1"=20' VERT: 1"=5'

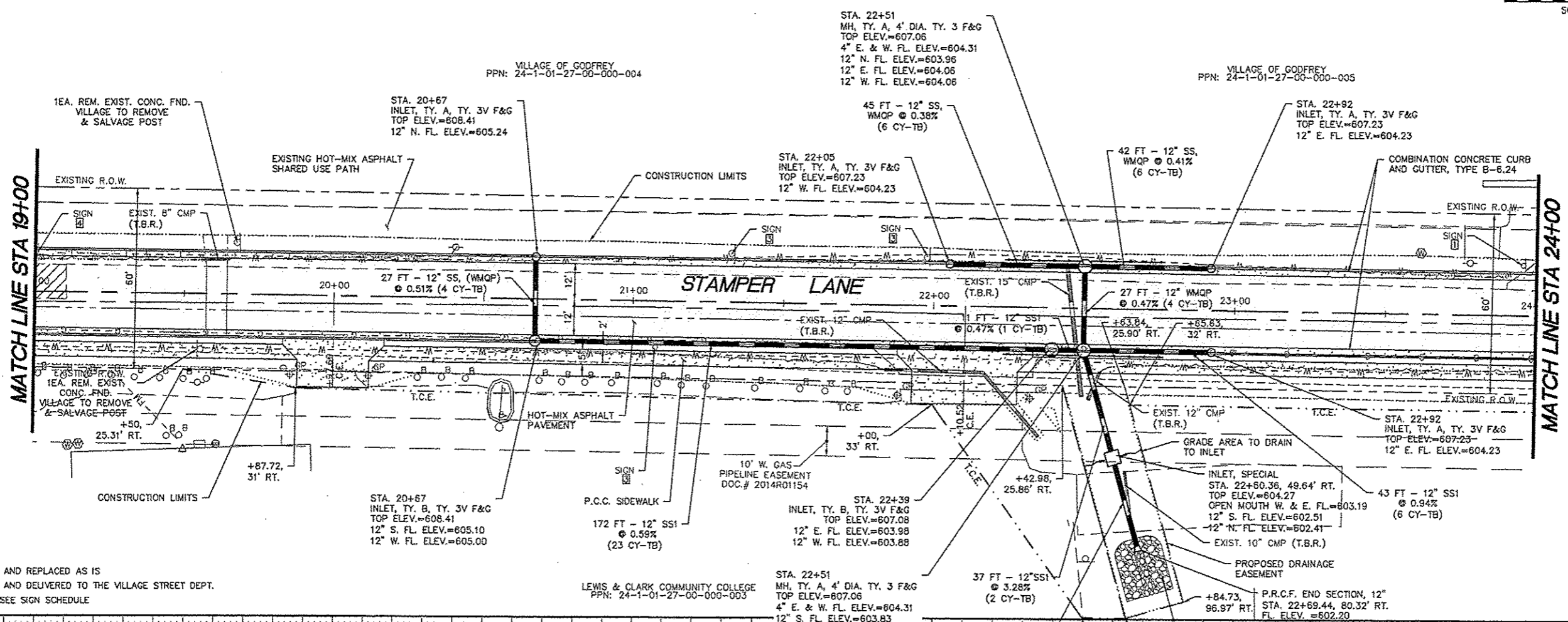


REVISIONS

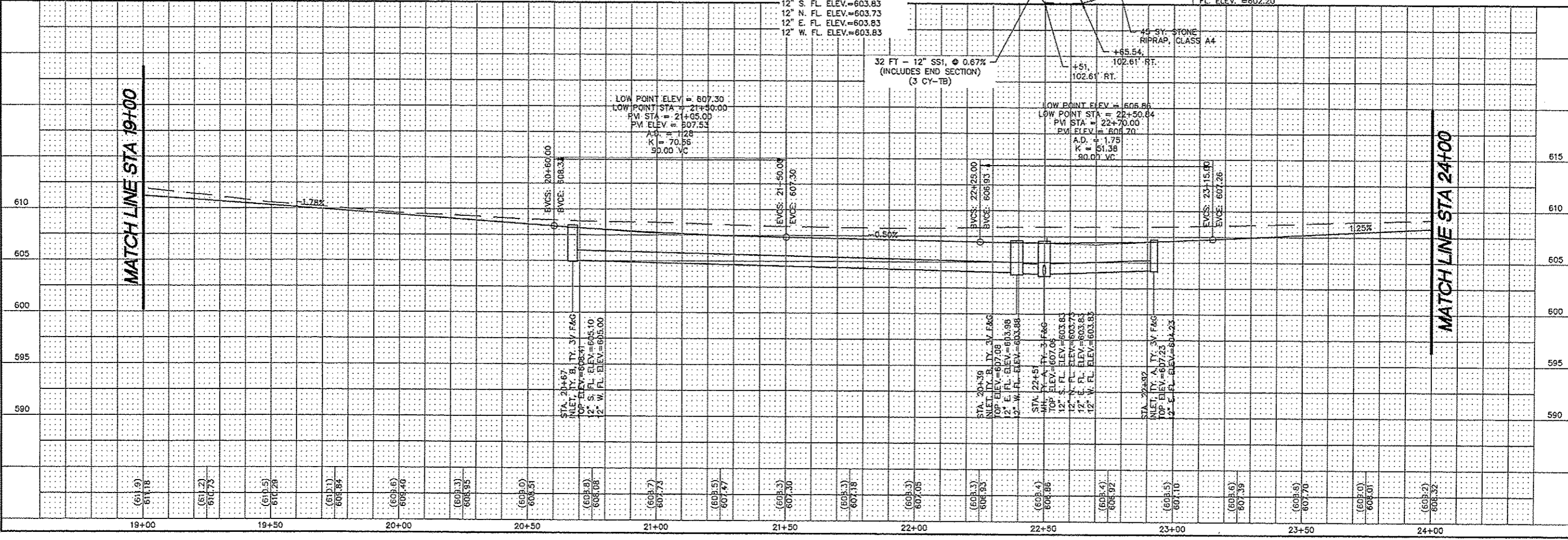
**SMS** Sheppard, Morgan & Schwaab, Inc.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 235 HAWK STREET, P.O. BOX 4, ANNA, IL 60902 618-660-9785 Email: info@smseng.com  
**ENGINEERS** DESIGN FIRM # 194-000992

**STAMPER LANE PHASE 2- GODFREY, ILLINOIS**  
 FAU ROUTE 8950  
 14-00024-01-SW  
**PLAN AND PROFILE**

DWG. NO.	
Q:140 PROJ:GODFREY (140774) STAMPER LANE PHASE 2	
PROD: DWG:PHASE 2 ROWY P-PLAN	
REF. BK	PG
JOB NO. 438779	
DSN. BY: SJW	
DRN. BY: CAD	
CHK. BY: SJW	
DATE: FEB, 2017	
SCALE: HORT: 1"=20'	
VERT: 1"=5'	
7 OF 30	



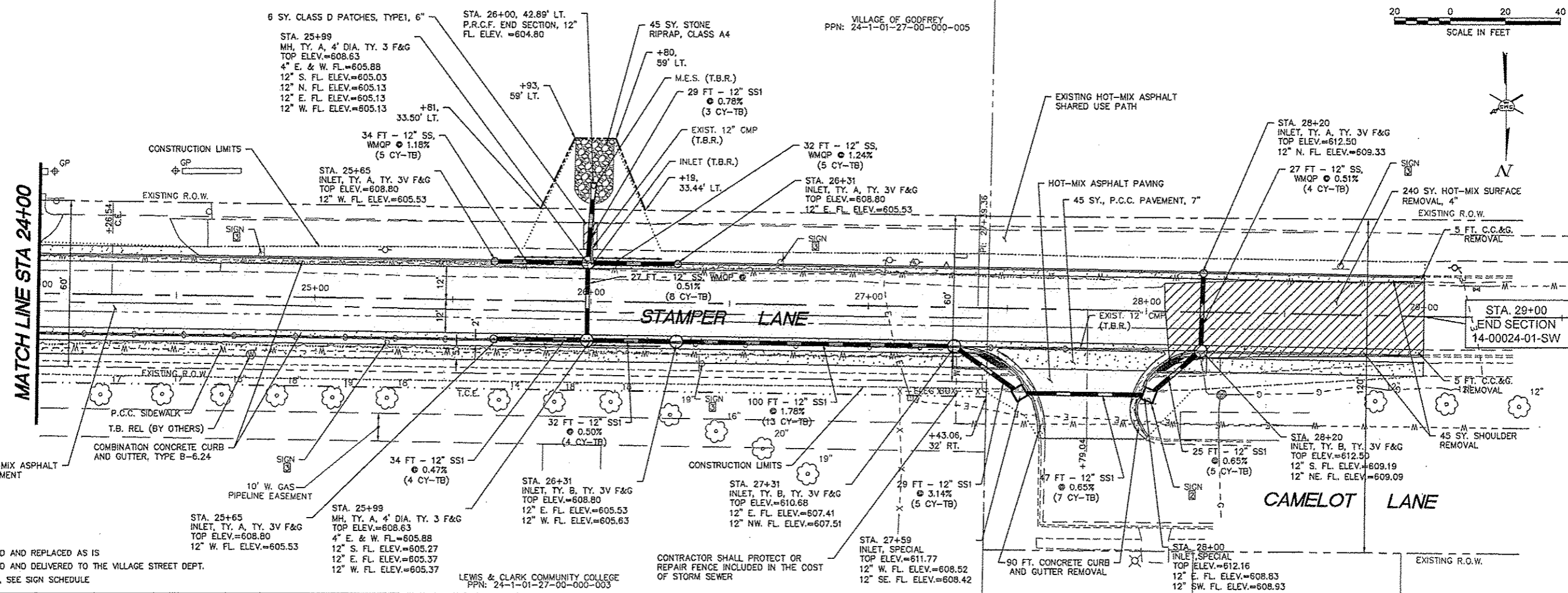
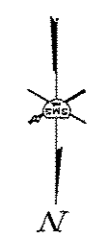
- SIGN NOTES:**
- ☐ SIGN TO REMAIN
  - ☒ SIGN TO BE REMOVED AND REPLACED AS IS
  - ☑ SIGN TO BE REMOVED AND DELIVERED TO THE VILLAGE STREET DEPT.
  - ☒ SIGN TO BE REUSED, SEE SIGN SCHEDULE



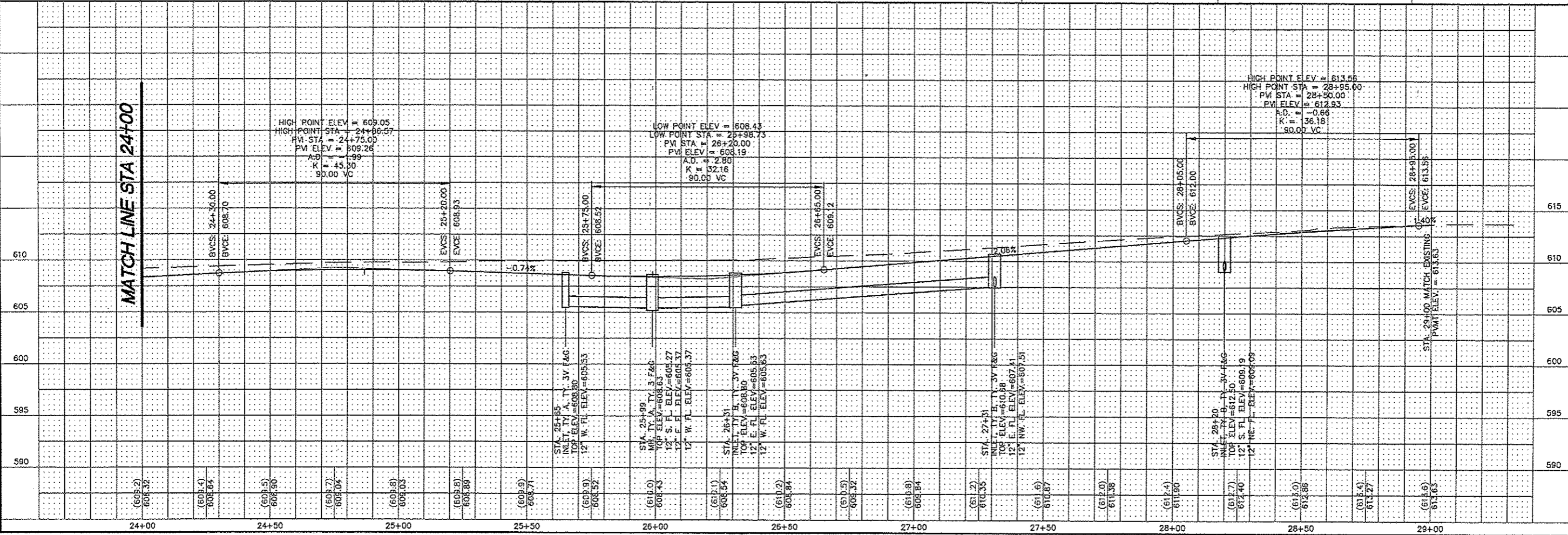
MATCH LINE STA 19+00

MATCH LINE STA 24+00





- SIGN NOTES:**
- ☐ SIGN TO REMAIN
  - ☒ SIGN TO BE REMOVED AND REPLACED AS IS
  - ☑ SIGN TO BE REMOVED AND DELIVERED TO THE VILLAGE STREET DEPT.
  - ☒ SIGN TO BE REUSED, SEE SIGN SCHEDULE



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 215 Maple Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: msi@smsengineers.com  
 DESIGN FIRM # 184-000932

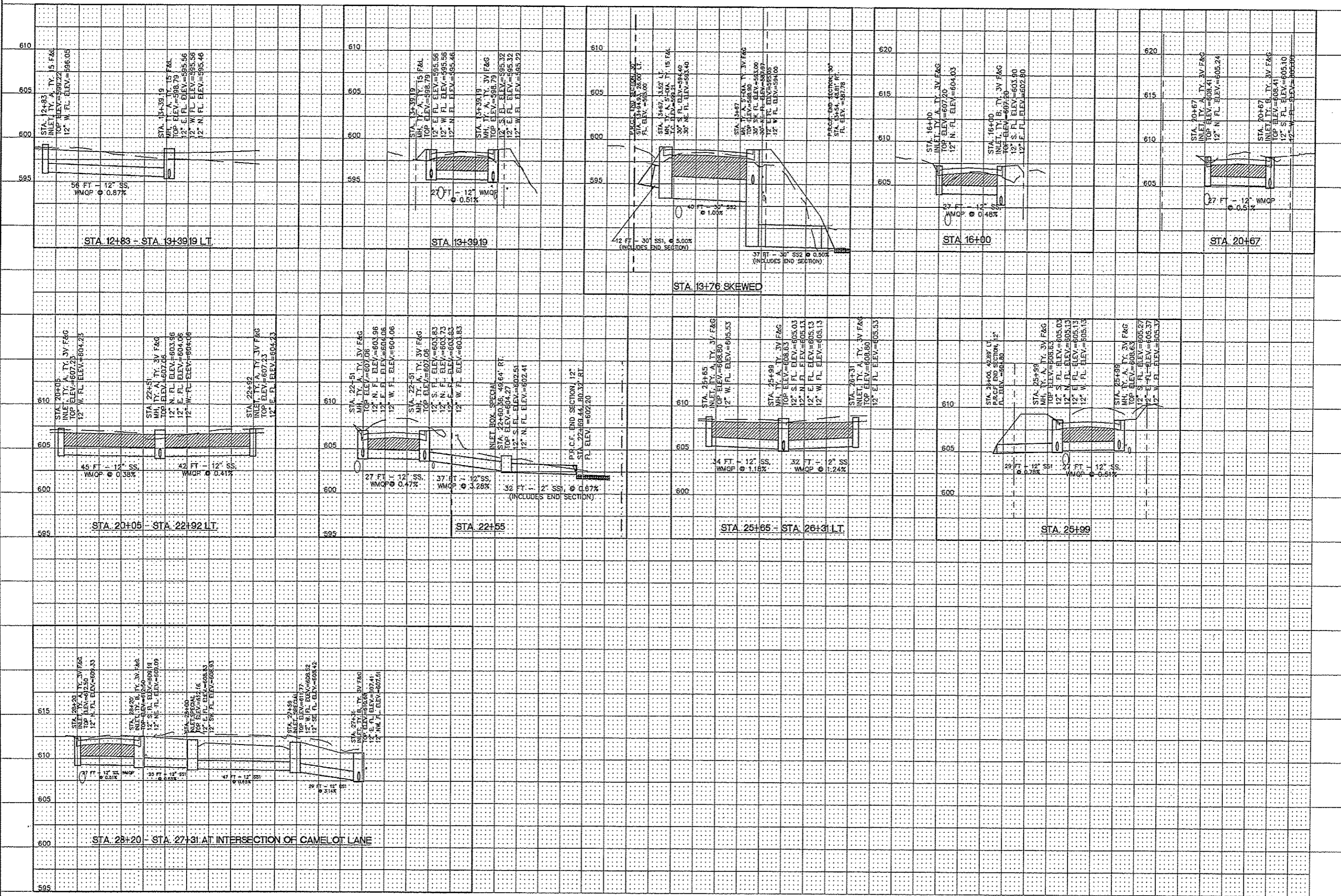
**STAMPER LANE PHASE 2- GODFREY, ILLINOIS**  
 FAU ROUTE 8950  
 14-00024-01-SW  
 PLAN AND PROFILE

DWG. NO. 14-00024-01-SW  
 PROJ. NO. 14-00024-01-SW  
 REF. BK. P.C.  
 JOB NO. 438779  
 DES. BY: SJW  
 OWN. BY: CAD  
 CHK. BY: SJW  
 DATE: FEB. 2017

HORIZ: 1"=20'  
 VERT: 1"=5'

B OF 30



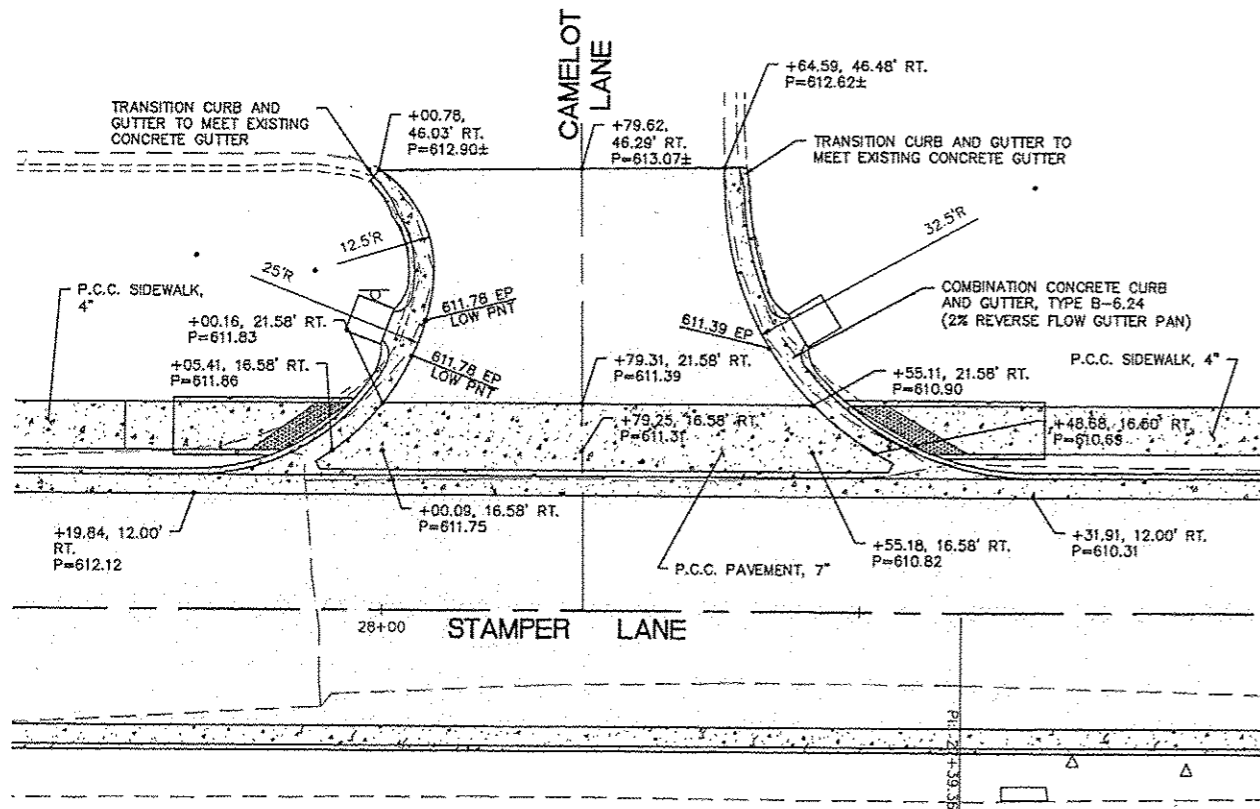


REVISIONS

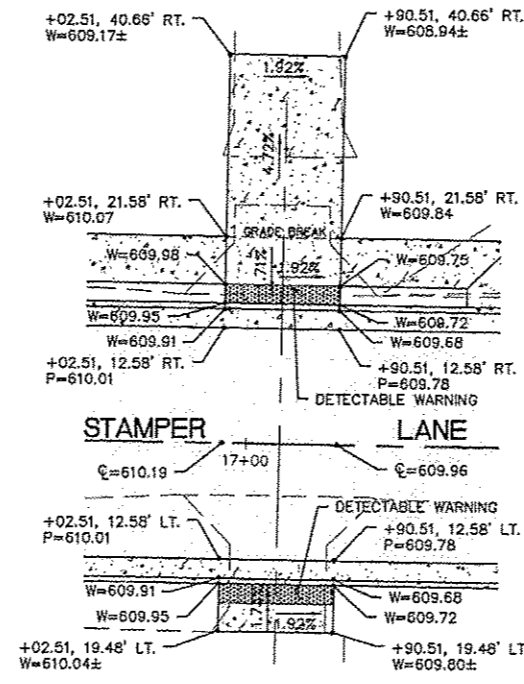
**SMS ENGINEERS**  
 SHEPPARD, MORGAN & SCHWAAB, INC.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 215 Market Street, P.O. Box E, Apt. B, 60002 Chicago, IL 60602  
 616462-9755 Fax: 616462-9756 Email: me@smsengr.com

STAMPER LANE PHASE 2 - GODFREY, ILLINOIS  
 FAU ROUTE 8950  
 14-00024-01-SW  
 STORM SEWER PROFILES

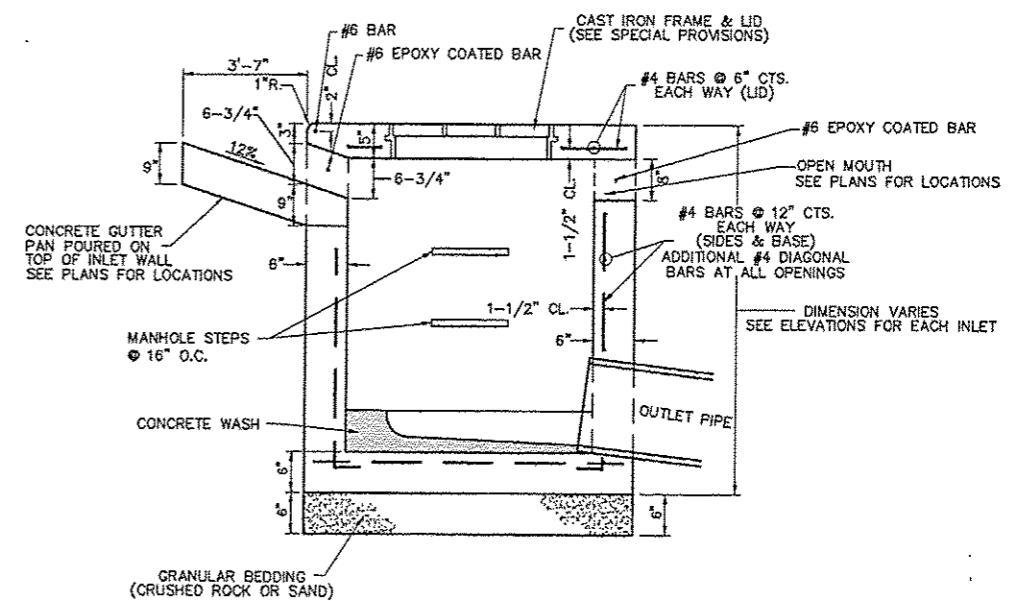
DWG. NO.	
PROJ. DIMS/PHASE 2 STORM PROFILES	
REF. BK.	PG.
JOB NO.	438779
DSN. BY.	SJW
OWN. BY.	CAD
CHK. BY.	SJW
DATE:	FEB. 2017
SCALE:	HORT: 1"=20'
VERT:	1"=5'
SHEET:	9 OF 30



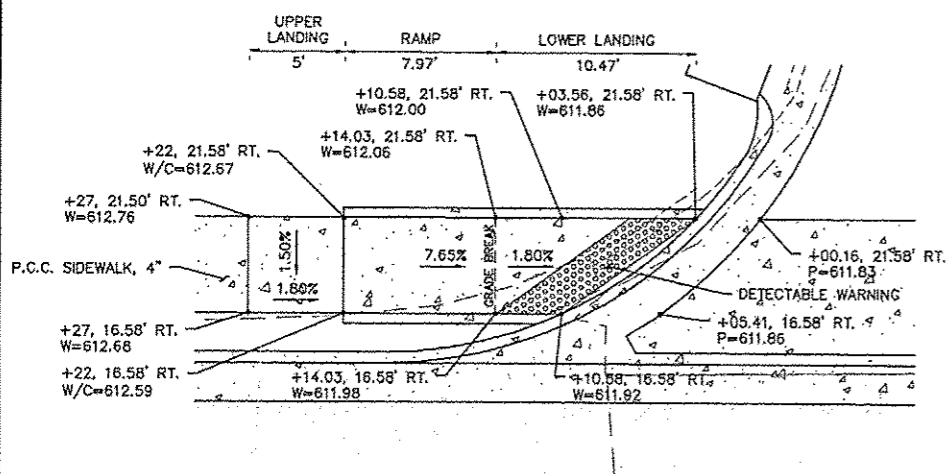
CAMELOT LANE ENTRANCE DETAIL #1  
1"=10'



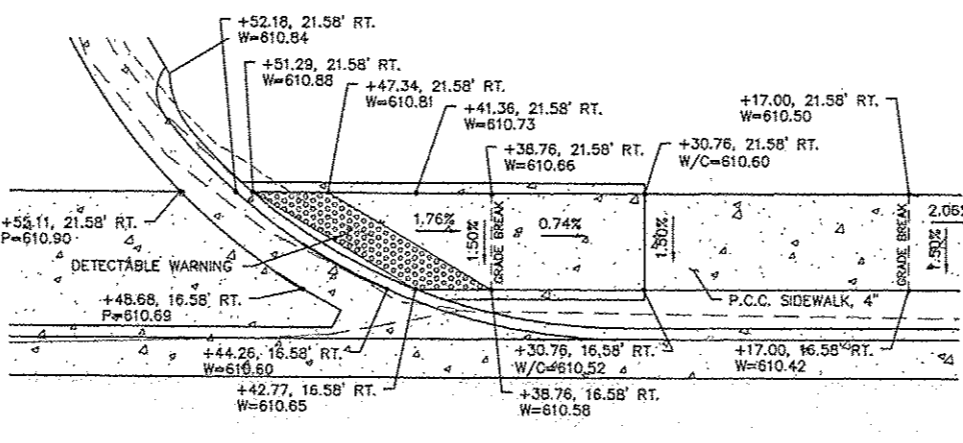
CROSSING DETAIL AT STA. 16+96.51  
1"=10'



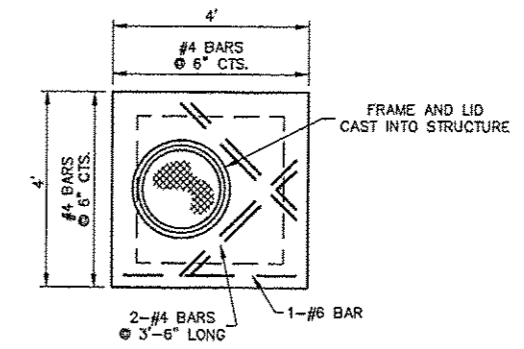
SECTION A-A  
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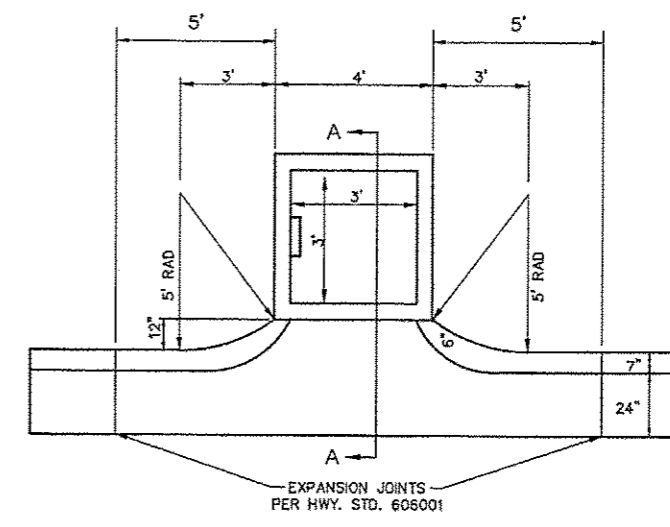
CAMELOT LANE ENTRANCE DETAIL #2  
CURB RAMP NW  
1"=5'



CAMELOT LANE ENTRANCE DETAIL #3  
SIDEWALK NE  
1"=5'



CONCRETE LID  
NO SCALE



INLET, SPECIAL PLAN  
NO SCALE

REVISIONS
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**SMS** Sheppard, Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
255 Orchard Street, P.O. Box 140, Elmhurst, IL 60120  
TEL: 630-834-8900 FAX: 630-834-8901  
E-MAIL: sms@smsschwab.com  
DESIGN FIRM # 18-000092

STAMPER LANE PHASE 2- GODFREY, ILLINOIS  
FAU ROUTE 8950  
14-00024-01-SW  
CONSTRUCTION DETAILS

DWG. NO.	14-00024-01-SW
PROJ. NO.	14-00024-01-SW
REF. PG.	PG.
JOB NO.	438778
DES. BY:	SJW
DWN. BY:	CAD
CHK. BY:	SJW
DATE:	FEB, 2017
SCALE:	AS SHOWN
SHEET:	10 OF 30









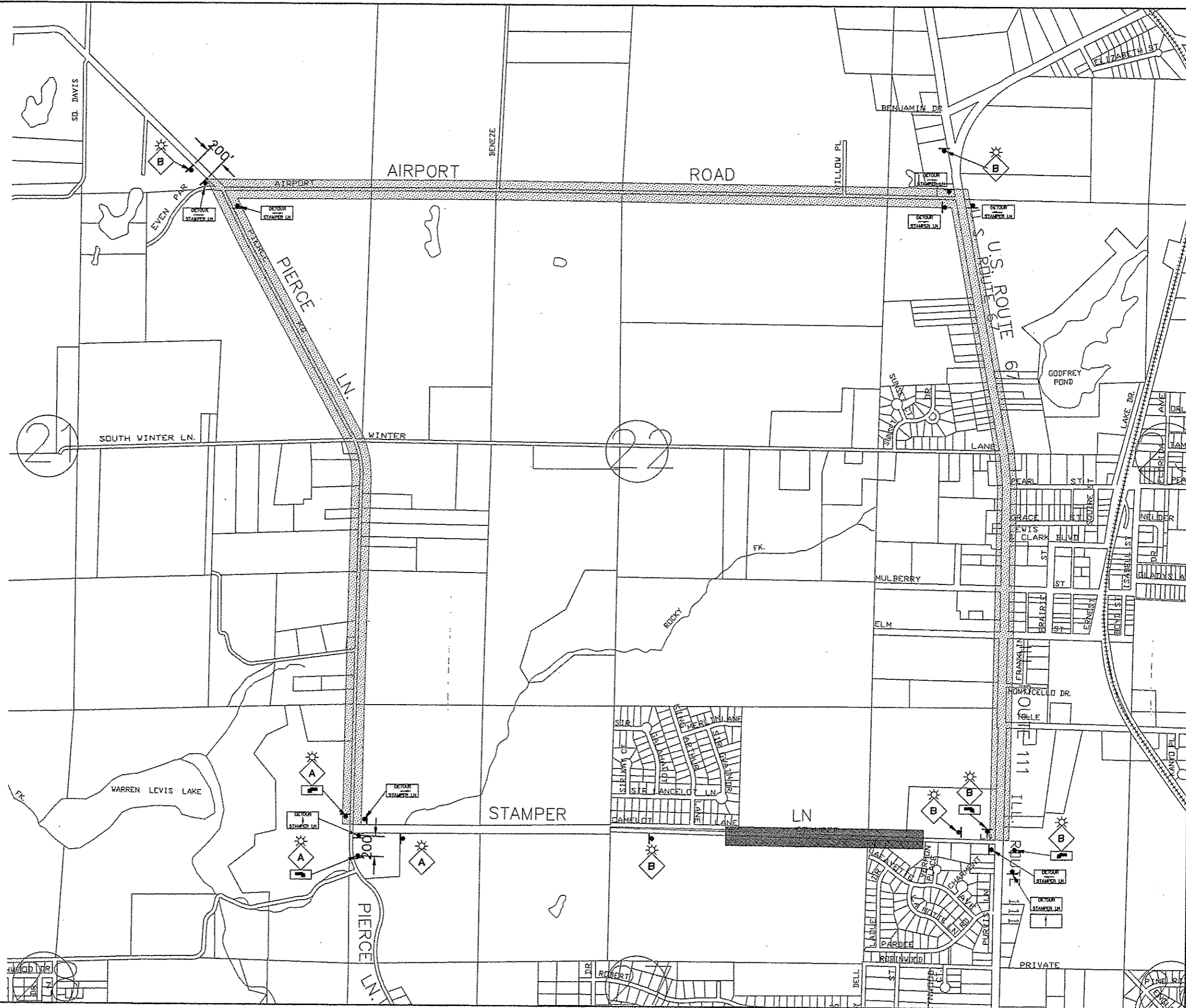
REVISIONS

**GENERAL NOTES**

1. ALL CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"

**LEGEND**

-  DETOUR ROUTE
-  WORK AREA
-  BLACK ARROW ON ORANGE BACKGROUND
-  ROAD CLOSED AHEAD (W20-3(0)-48)
-  ROAD CONSTRUCTION AHEAD (W20-1(0)-48)
-  48" X 48" SIGN (FLUORESCENT) (WITH TYPE A MONODIRECTIONAL FLASHING AMBER LIGHT)



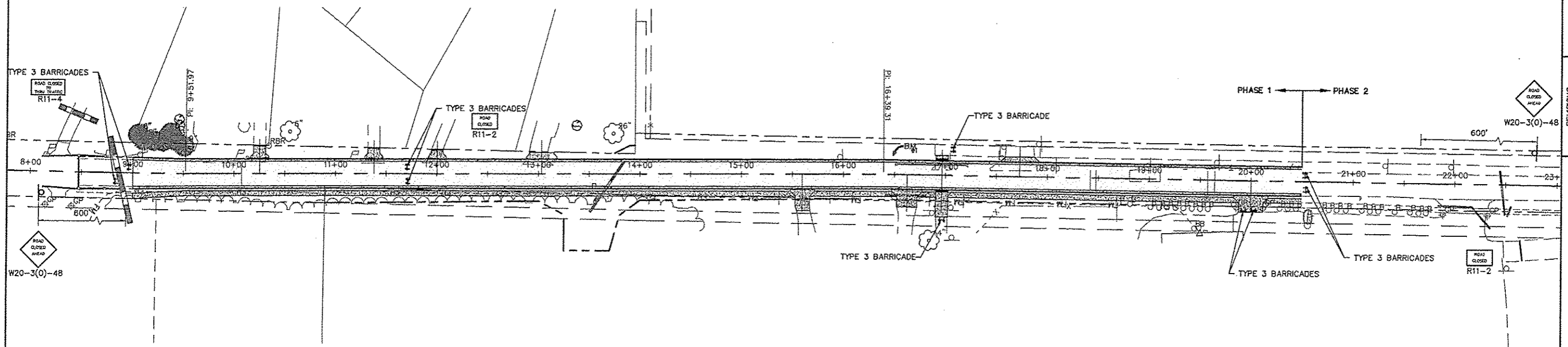
Sheppard, Morgan & Schwaab, Inc.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 215 Market Street, P.O. Box E, Alton, IL 62002 618-662-9725 Email: ms@smgsheppard.com  
 DESIGN FIRM # 184-000982



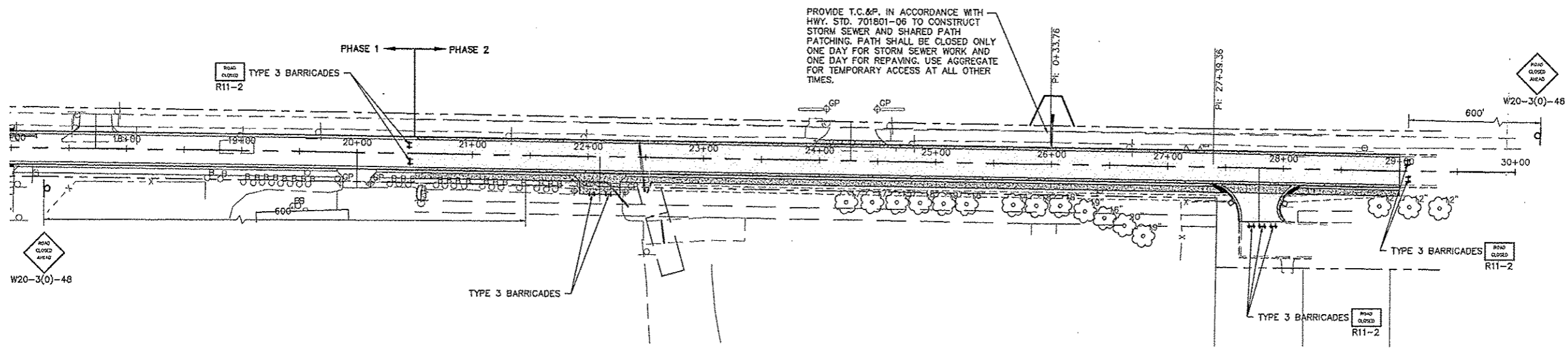
STAMPER LANE PHASE 2- GODFREY, ILLINOIS  
 FAU ROUTE 8950  
 14-00024-01-SW  
 TRAFFIC DETOUR PLAN

DWG. NO.	14-00024-01-SW
PROJ. OWNER	STAMPER LN PHASE 2
REF. BK.	PG.
JOB NO.	438779
DSN. BY:	SJW
OWN. BY:	CAD
CHK. BY:	SJW
DATE:	FEB, 2017
SCALE:	1"=500'
SHEET:	11 OF 30





PHASE 1 TRAFFIC CONTROL AND PROTECTION



PHASE 2 TRAFFIC CONTROL AND PROTECTION

TRAFFIC CONTROL AND PROTECTION NOTES

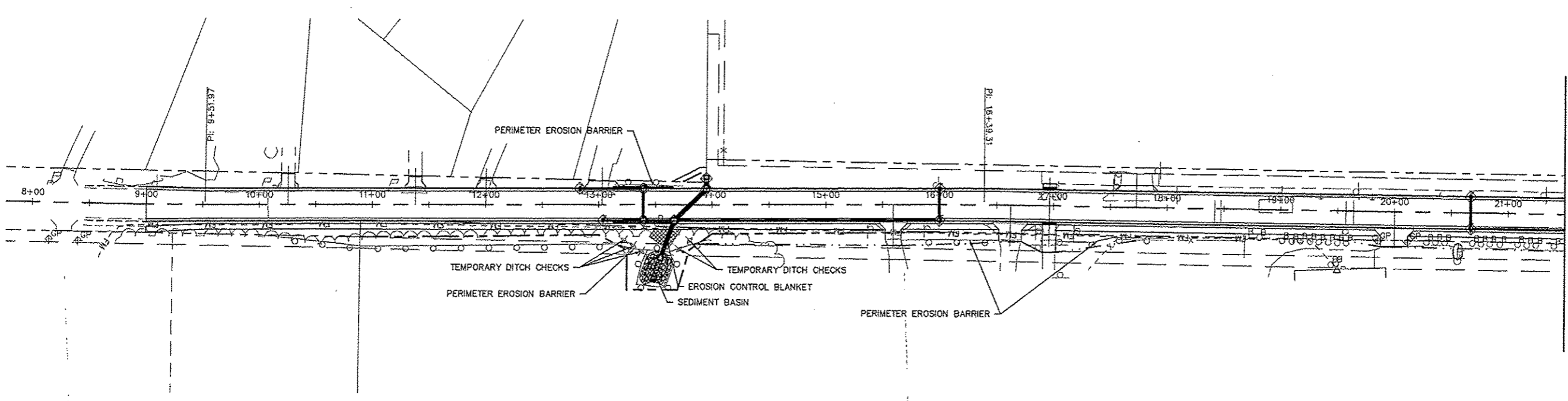
1. ALL HAZARDS WITHIN THE WORK ZONE SHALL BE PROTECTED WITH TYPE 1 BARRICADES WITH TYPE A FLASHING LIGHTS.
2. ALL CONSTRUCTION SIGNS SHALL MEET REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
3. CONSTRUCTION OF THE PROJECT BETWEEN STA. 9+00 THRU STA. 11+50 SHALL BE PERFORMED SO THAT VEHICULAR ACCESS TO RESIDENTIAL DRIVEWAYS IS MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONES, BARRICADES, SIGNS, ETC. TO DELINEATE VEHICLE LANES AS DIRECTED BY THE ENGINEER.

NO.	REVISIONS

**SMS ENGINEERS**  
 Sheppard, Morgan & Schwab, Inc.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 215 Market Street, P.O. Box E, Albany, N.Y. 12202  
 518-462-9755 Fax: 518-462-9755 E-mail: sms@smsengineers.com  
 DESIGN FIRM # 184-000992








STAMPER LANE PHASE 2- GODFREY, ILLINOIS  
 FAU ROUTE 8950  
 14-00024-01-SW  
 TRAFFIC CONTROL AND PROTECTION PLAN

DWG. NO.	14-00024-01-SW
PROJ. NAME	STAMPER LANE PHASE 2 TRAFFIC CONTROL AND PROTECTION PLAN
REF. BK.	PG.
JOB NO.	438779
DSN. BY.	SJW
DWN. BY.	CAD
CHK. BY.	SJW
DATE:	FEB, 2017
SCALE:	1"=50'
SHEET	12 OF 30



MATCH LINE STA 21+50

**LEGEND**

-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET FILTERS
-  SEDIMENT BASIN
-  EROSION CONTROL BLANKET
-  RIPRAP

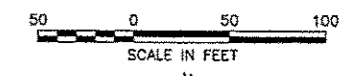
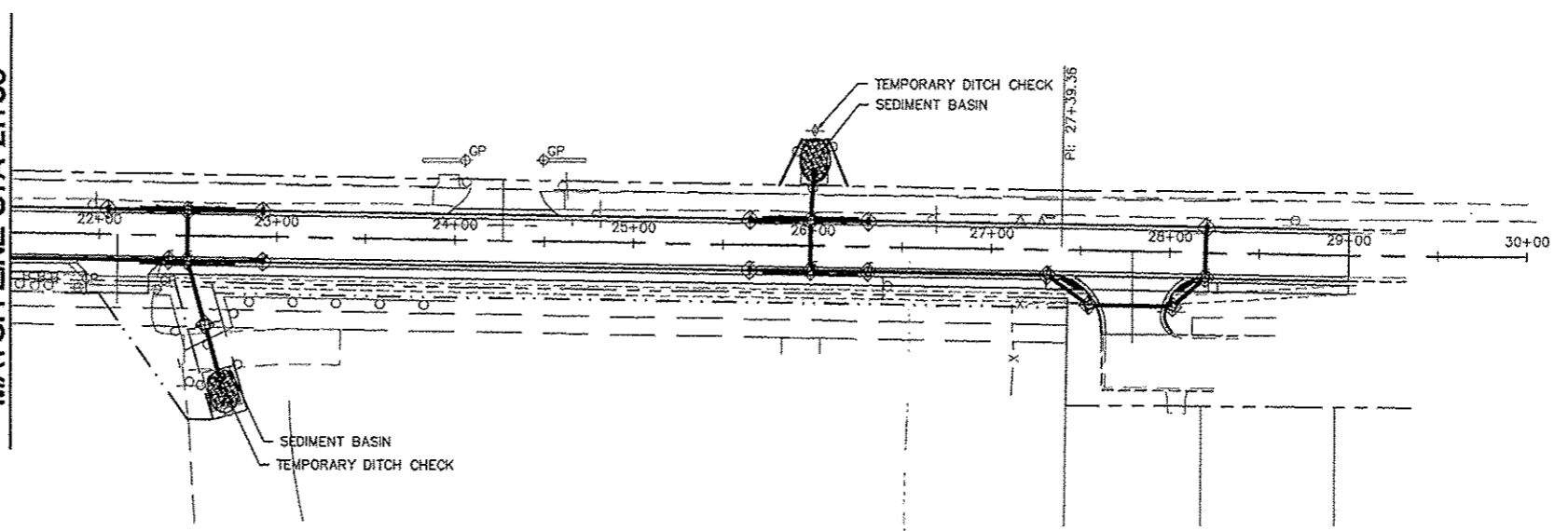
**EROSION CONTROL QUANTITIES**

SEEDING, CLASS 1B (MODIFIED)	ACRE	1
NITROGEN FERTILIZER NUTRIENT	POUND	90
PHOSPHORUS FERTILIZER NUTRIENT	POUND	90
POTASSIUM FERTILIZER NUTRIENT	POUND	90
AGRICULTURAL GROUND LIMESTONE	TON	2
MULCH, METHOD 2	ACRE	1
EARTH EXCAVATION FOR EROSION CONTROL	CU YD	160
TEMPORARY EROSION CONTROL SEEDING	POUND	300
TEMPORARY DITCH CHECKS	FOOT	100
PERIMETER EROSION BARRIER	FOOT	1160
INLET AND PIPE PROTECTION	EACH	25
INLET FILTERS	EACH	25
EROSION CONTROL BLANKET	SQ YD	430
STONE RIPRAP, CLASS A4	SQ YD	160
FILTER FABRIC	SQ YD	160

**EROSION CONTROL BLANKET SCHEDULE**

LOCATION	EROSION CONTROL BLANKET (SQ. YD.)
13+00 TO 14+00 RT.	200
13+95 LT.	40
22+60 RT.	40
OTHER AREAS AS NEEDED & DIRECTED BY THE ENGINEER	150
<b>TOTAL</b>	<b>430</b>

MATCH LINE STA 21+50



**EROSION CONTROL NOTES**

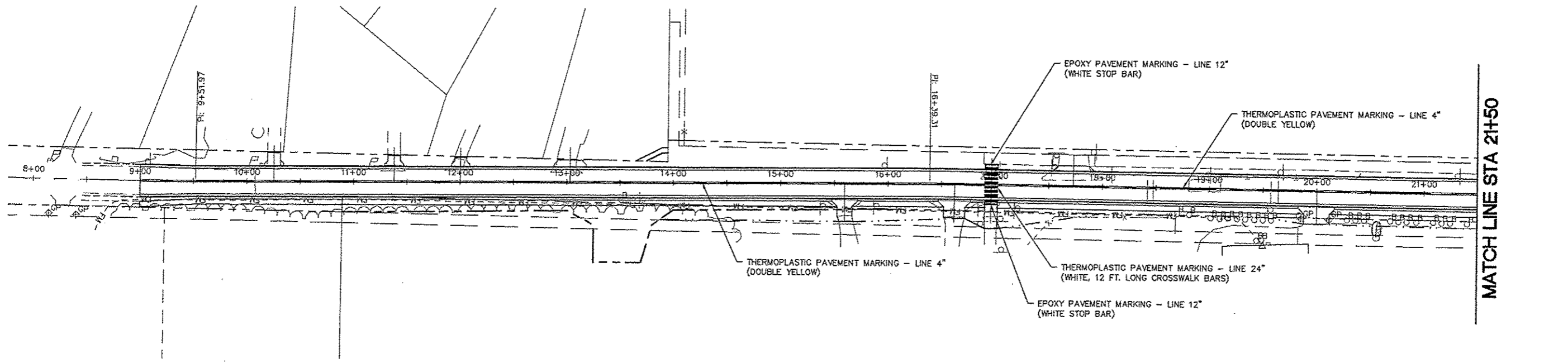
1. EROSION CONTROL ITEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 280 OF THE I.D.O.T. STANDARD SPECIFICATIONS.
2. THIS PLAN SHOWS GENERAL LAYOUT OF EROSION CONTROL ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL AND THEREFORE SHALL MONITOR THE SITE AND REPAIR, MAINTAIN OR MODIFY THE EROSION AND SEDIMENT CONTROL MEASURES AS NEEDED TO COMPLY WITH REGULATIONS.
3. THE CONTRACTOR FOR THIS PROJECT SHALL COMPLY WITH THE ILLINOIS E.P.A. NPDES PERMIT NO. ILR10 FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.
4. THIS EROSION CONTROL PLAN SUPPLEMENTS THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT AND INCLUDED IN THE SPECIAL PROVISIONS.
5. THE CONTRACTOR IS REQUIRED TO RETAIN A COPY OF THE SWPPP ON SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
6. CONSTRUCTION AND DRIVEWAY ENTRANCES SHALL BE STABILIZED WITH CRUSHED STONE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC ROADWAYS. THIS WORK SHALL BE PAID FOR PER TON FOR AGGREGATE FOR TEMPORARY ACCESS.
7. PERIMETER EROSION BARRIER SHALL BE PLACED ALONG THE UPSLOPE EDGE OF RIPRAP IF BARE SOIL EXISTS AT THE TIME RIPRAP IS PLACED.
8. TEMPORARY SEEDING AND MULCH SHALL BE COMPLETED IN ACCORDANCE WITH THE SWPPP.
9. CONTRACTOR SHALL INSTALL TEMPORARY DITCH CHECKS IN THE FLOW PATHS OF CONCENTRATED STORM WATERS WHERE THERE IS A POTENTIAL FOR EROSION DUE TO CONSTRUCTION SITE ACTIVITIES. DITCH CHECKS PROVIDED SHALL BE PER ARTICLE 280.04 OR OTHER DITCH CHECK MATERIALS ACCEPTABLE TO THE ENGINEER. STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER, AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY DITCH CHECKS. SPACING OF DITCH CHECKS SHALL DEPEND ON THE HEIGHT OF THE DITCH CHECK AND THE SLOPE OF THE DITCH, ACCORDING TO THE FOLLOWING FORMULA:  
$$\text{DITCH CHECK SPACING (FT.)} = \frac{\text{HEIGHT (FT.)}}{\text{SLOPE (FT./FT.)}}$$
  
THIS SPACING WILL RESULT IN THE TOP ELEVATION OF THE DITCH CHECK BEING EQUAL TO THE DITCH FLOW LINE ELEVATION AT THE NEXT UPSTREAM DITCH CHECK.
10. AN ESTIMATED 100 FEET OF TEMPORARY DITCH CHECKS HAVE BEEN CALCULATED. THE ACTUAL AMOUNT NEEDED MAY VARY.
11. THE CONTRACTOR SHALL PROVIDE TEMPORARY INLET AND PIPE PROTECTION AT ALL STORM SEWER PIPE AND INLET STRUCTURES AS REQUIRED TO INTERCEPT WATER BORNE SILT AND SEDIMENT AND PREVENT IT FROM ENTERING STORM SEWER SYSTEMS. THIS ITEM MAY CONSIST OF EMBEDDED HAY OR STRAW BALES, SILT FILTER FENCE, SAND BAGS OR OTHER APPROVED METHODS.
12. THE SEDIMENT BASINS SHOWN ON THE PLANS ARE TO BE CONSTRUCTED TO THE DIMENSIONS AND LOCATIONS CORRESPONDING WITH THE RIPRAP INSTALLATION. THE SEDIMENT BASINS SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL FINAL INSTALLATION OF RIPRAP IS AUTHORIZED BY THE ENGINEER. A TEMPORARY SEDIMENT BASIN CONSISTS OF AN EXCAVATED BASIN WITH A PERIMETER EROSION BARRIER (SILT FILTER FENCE OR HIGH FLOW SILT FILTER FENCE) ON THE DOWNSTREAM SIDE.

REVISIONS


**SMS ENGINEERS**  
 Sheppard, Morgan & Schwab, Inc.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 215 Market Street, P.O. Box E, Joliet, IL 60432 815/662-9785 E-mail: sm@smsengineers.com  
 DESIGN FIRM # 184-000895Z

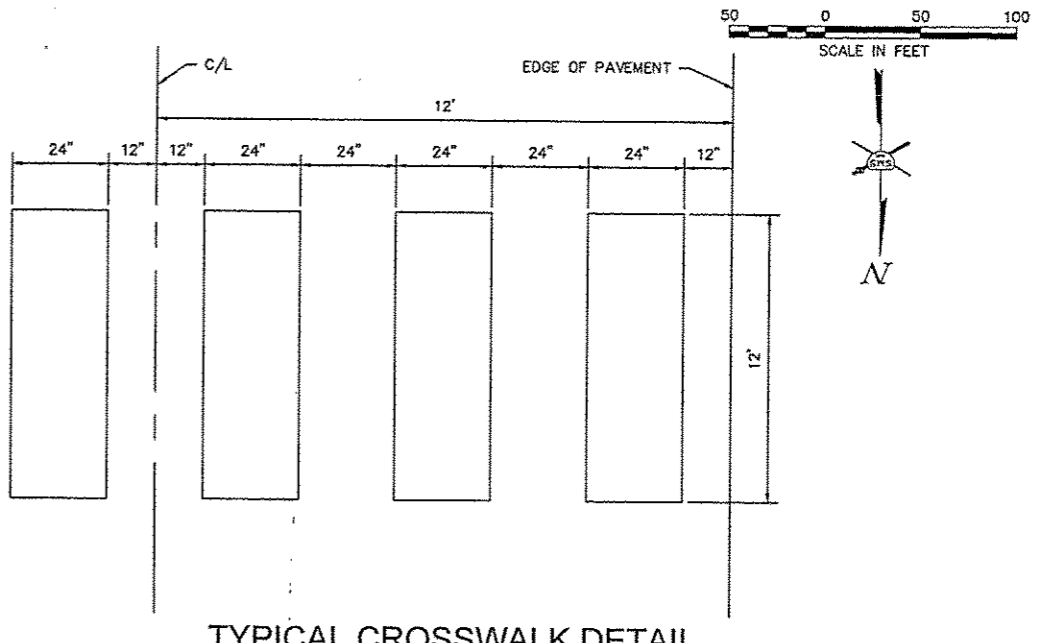
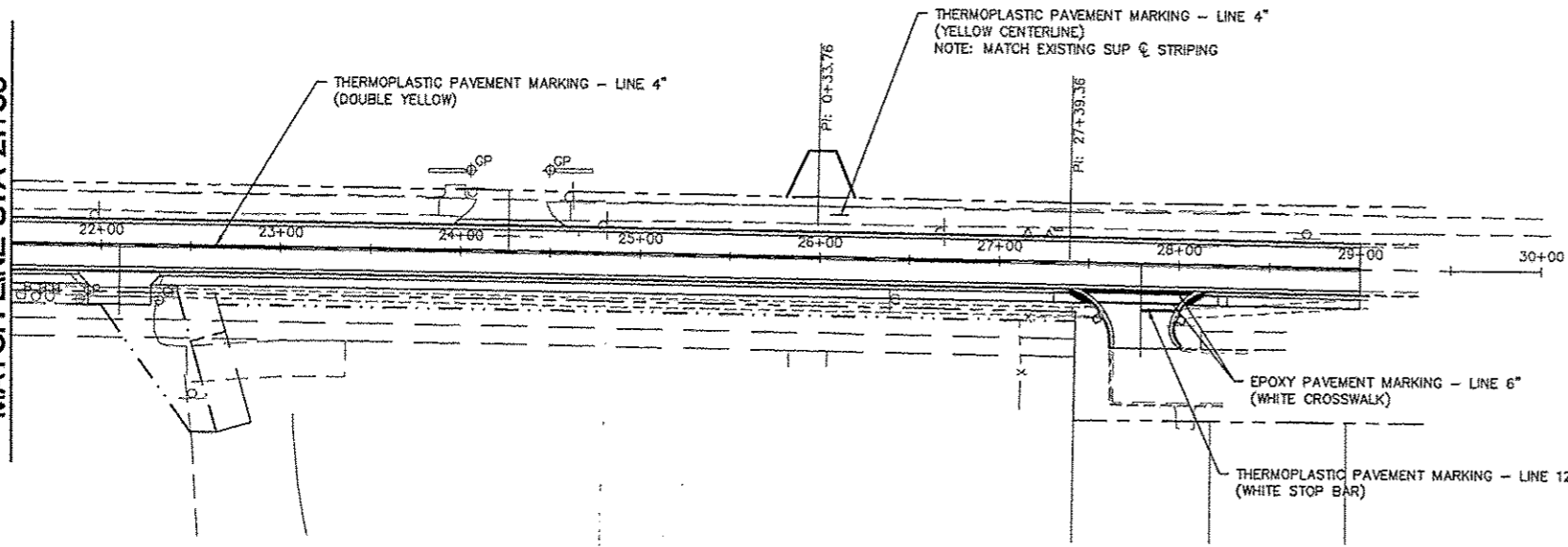
STAMPER LANE PHASE 2- GODFREY, ILLINOIS  
 FAU ROUTE 8950  
 14-00024-01-SW  
 EROSION CONTROL PLAN

DWG. NO. 14-00024-01-SW  
 PREP. BY: J.S.W.  
 CHECKED BY: J.S.W.  
 DATE: FEB. 2017  
 SCALE: 1"=50'  
 SHEET 13 OF 30

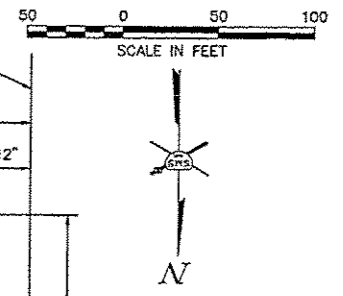


MATCH LINE STA 21+50

MATCH LINE STA 21+50



TYPICAL CROSSWALK DETAIL  
NO SCALE



PAVEMENT MARKING QUANTITIES

SHORT TERM PAVEMENT MARKING	FOOT	200
SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	67
THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3976
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	18
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	72
EPOXY PAVEMENT MARKING - LINE 6"	FOOT	120
EPOXY PAVEMENT MARKING - LINE 12"	FOOT	24

SIGN SCHEDULE

LOCATION STATION	LEGEND OR TYPE	MUTCD SIGN DESIGNATION	SIZE W x H (INCHES)	RELOCATE EXISTING SIGN PANEL (SPECIAL) (EACH)	SIGN PANEL - TYPE 1 (SQ. FT.)	METAL POST - TYPE B (FOOT)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	REMARKS
9+15 LT	SCHOOL	S4-3P	24" X 8"		1.3		17.0	NEW SIGN (FLUORESCENT GREEN)
	SPEED LIMIT 20	R2-1	24" X 30"		5.0			NEW SIGN
	WHEN CHILDREN ARE PRESENT	S4-2P	24" X 10"		1.7			NEW SIGN
15+88 RT	SPEED LIMIT 20	R2-1	24" X 30"		5.0		16.3	NEW SIGN
	WHEN CHILDREN ARE PRESENT	S4-2P	24" X 10"		1.7			NEW SIGN
	DO NOT PASS	N/A	24" X 30"	1	N/A	13.5		EXISTING SIGN
21+00 RT	NO PARKING	R8-3A	18" X 24"		3.0	13.0		NEW SIGN
21+00 LT	NO PARKING	R8-3A	18" X 24"		3.0	13.0		NEW SIGN
24+80 LT	NO PARKING	R8-3A	18" X 24"		3.0	13.0		NEW SIGN
25+25 RT	SPEED LIMIT 30	R2-1	24" X 30"		5.0		17.5	NEW SIGN
	NO PARKING	R8-3A	18" X 24"		3.0			NEW SIGN
	SPEED LIMIT 20	R2-1	24" X 30"		5.0		16.3	NEW SIGN
28+70 LT	WHEN CHILDREN ARE PRESENT	S4-2P	24" X 10"		1.7			NEW SIGN
	TOTAL			1	38.4	52.5	67.1	

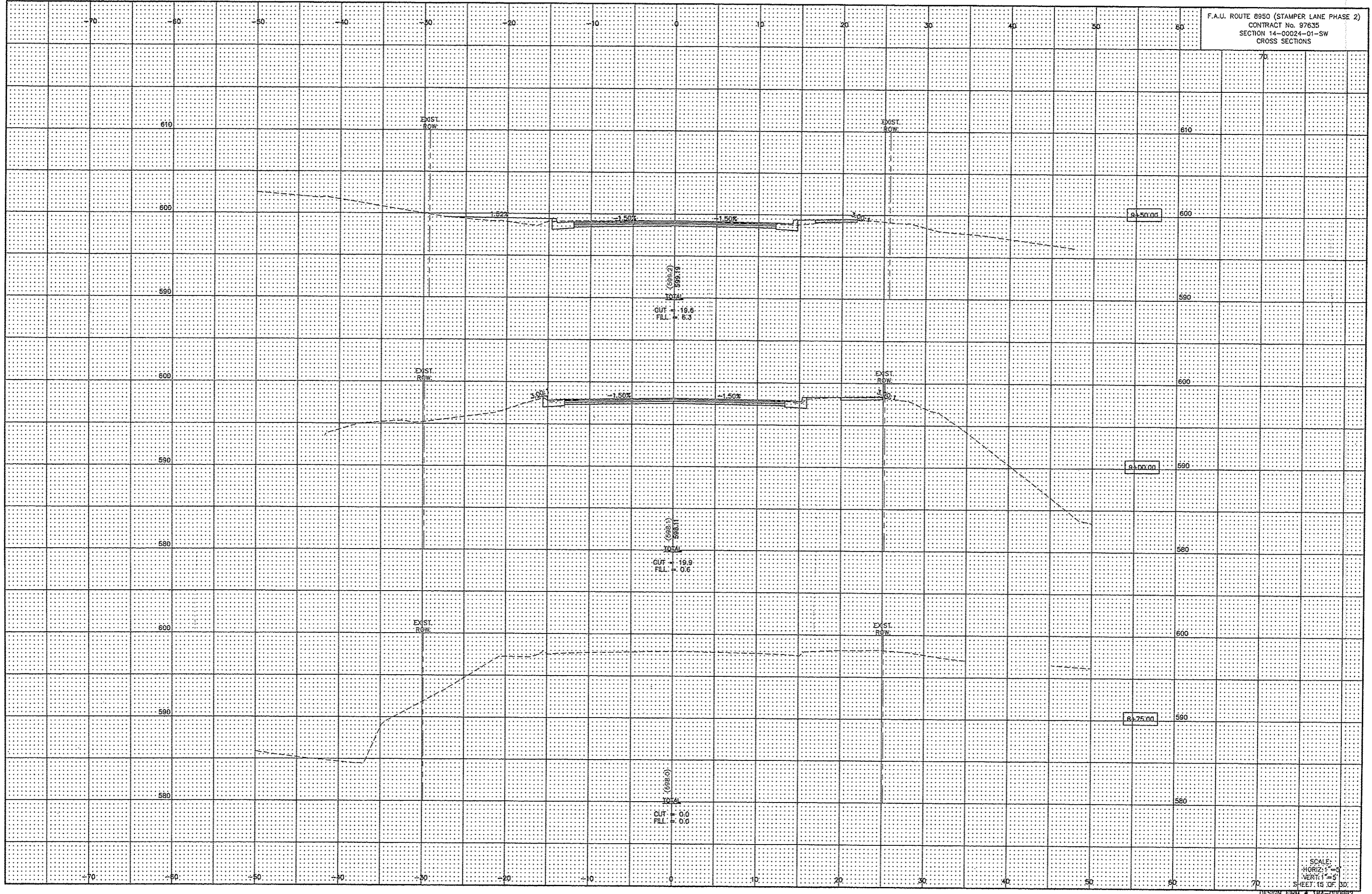
REVISIONS

Sheppard, Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
210 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com  
**SMS ENGINEERS**

STAMPER LANE PHASE 2- GODFREY, ILLINOIS  
FAU ROUTE 8950  
14-00024-01-SW  
PAVEMENT MARKING AND SIGNING PLAN

DWG. NO.  
PROJ. NO. 14-00024-01-SW  
REF. BK. PIG  
JOB NO. 438779  
DES. BY: SJW  
CHK. BY: CAD  
DATE: FEB, 2017  
SCALE: 1"=50'  
SHEET 14 OF 30





(593.73)  
593.73  
TOTAL  
GUT = 19.6  
FILL = 6.3

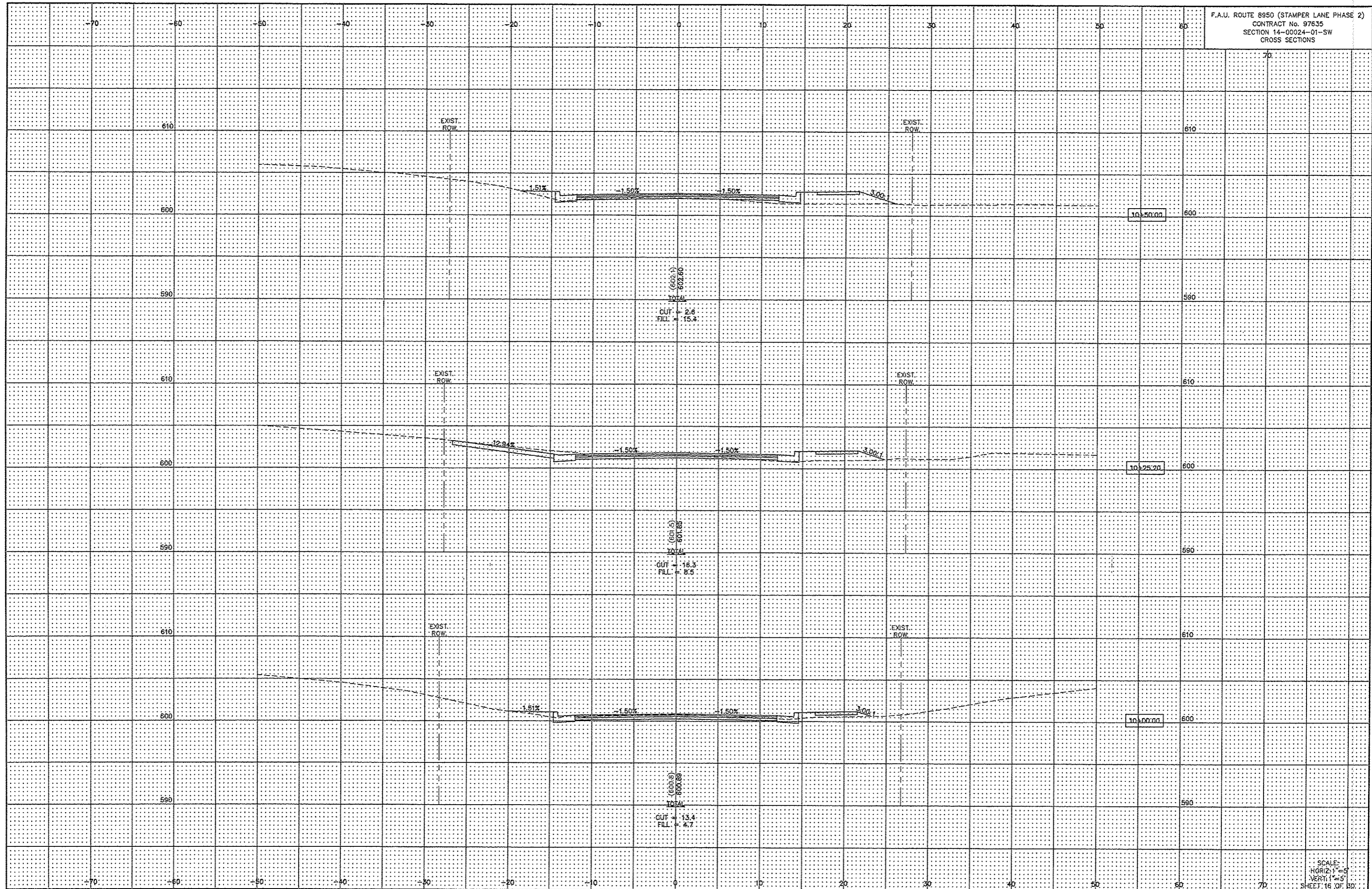
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(593.31)  
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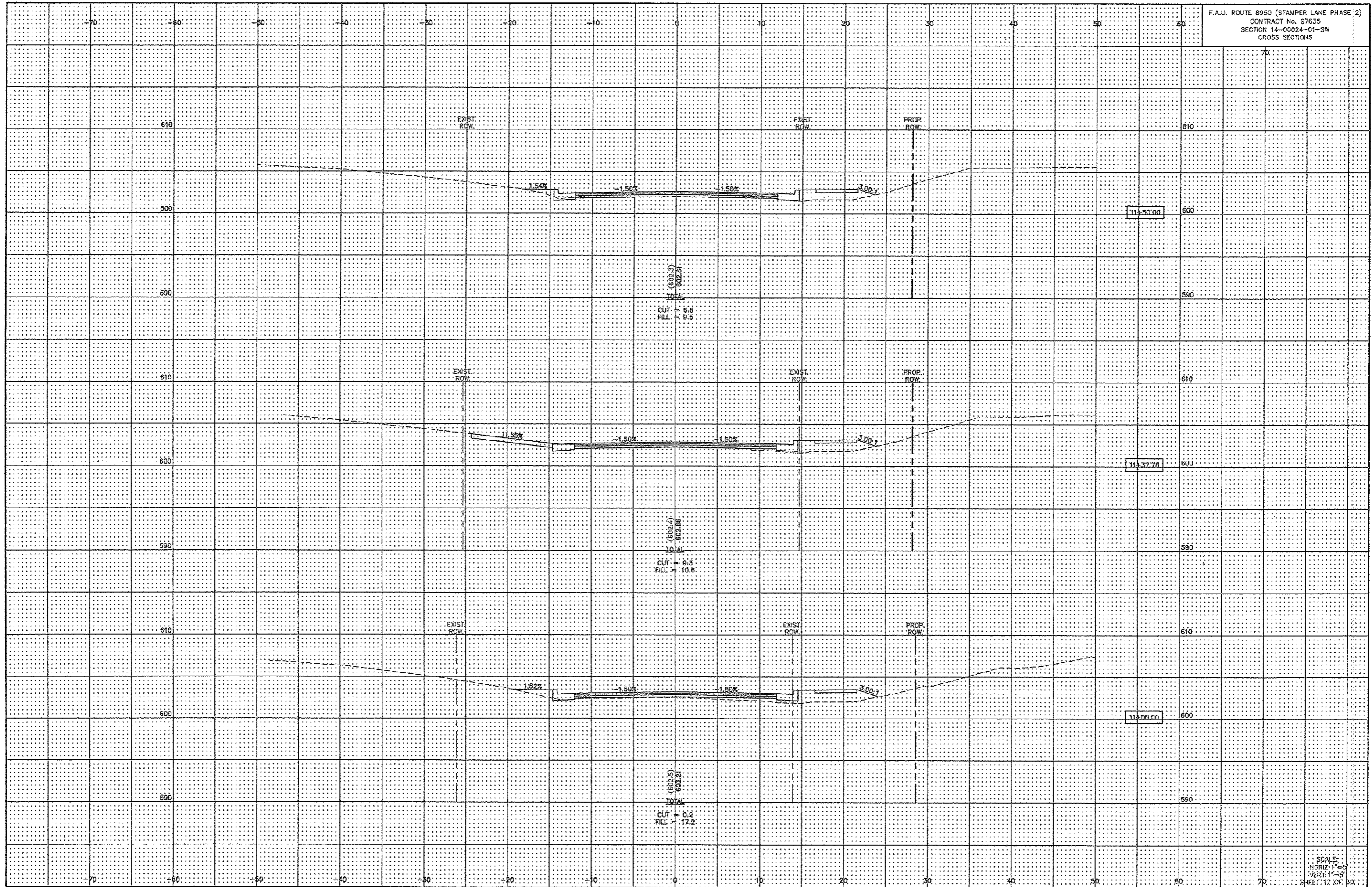
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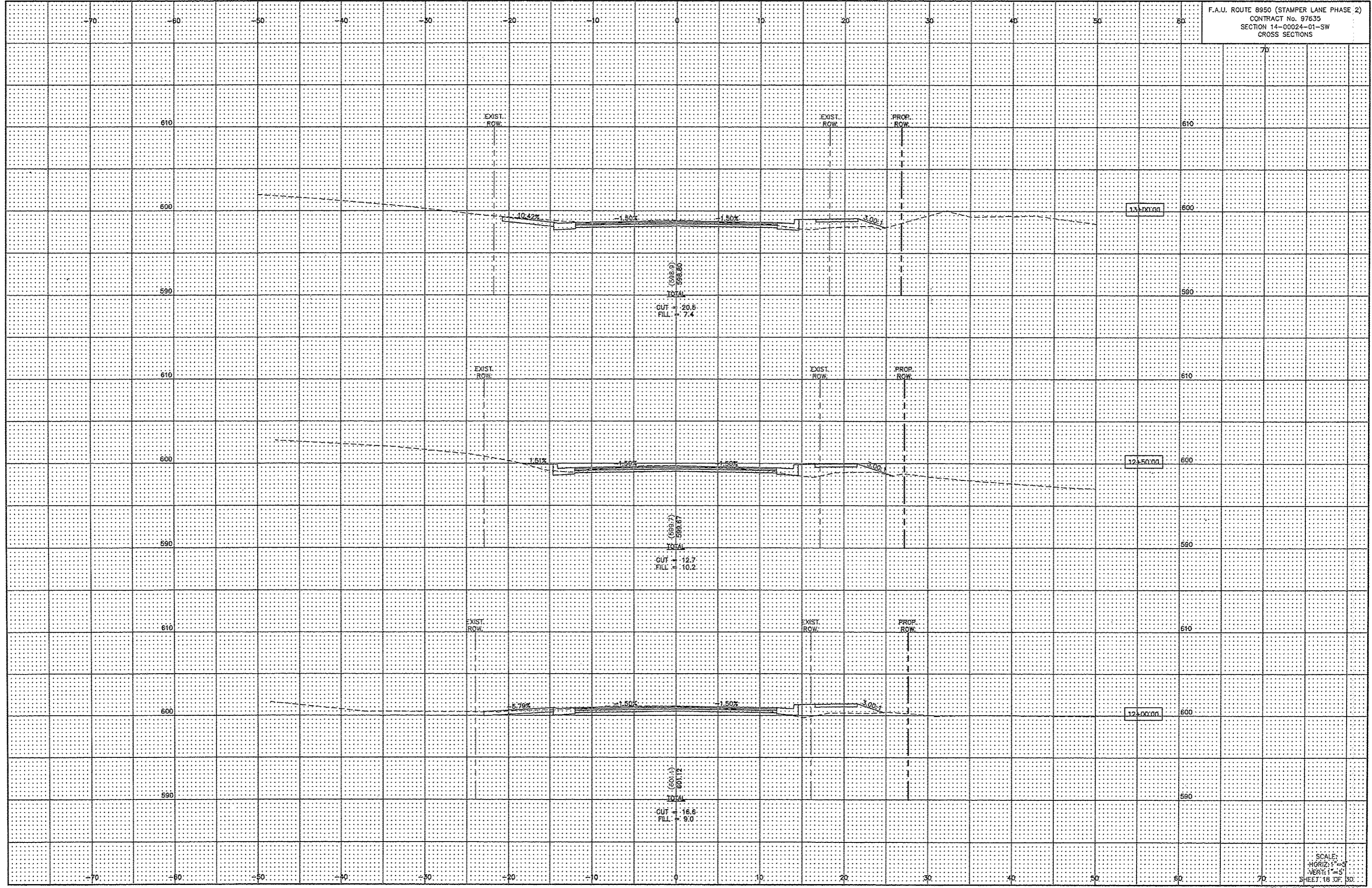
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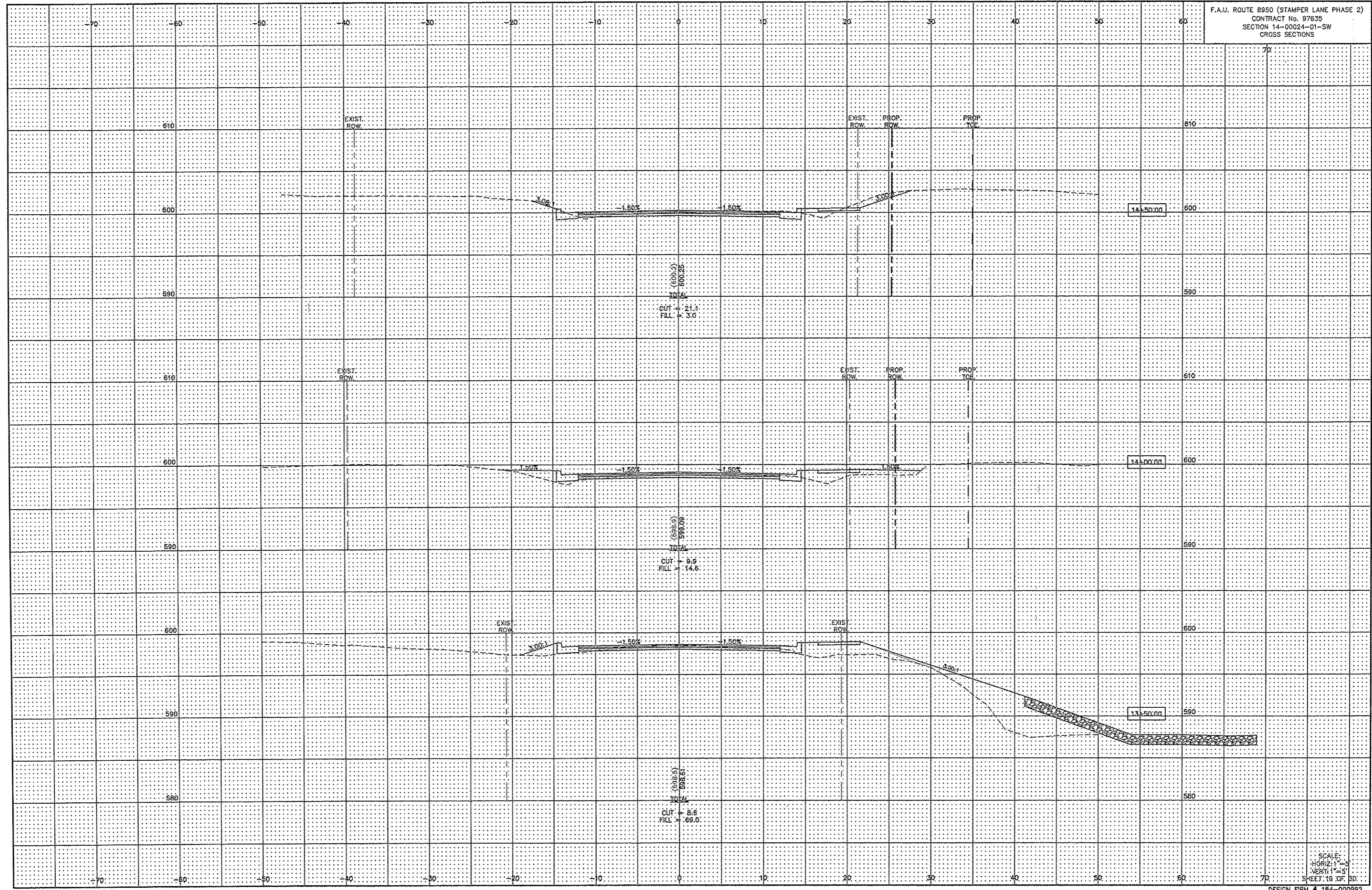




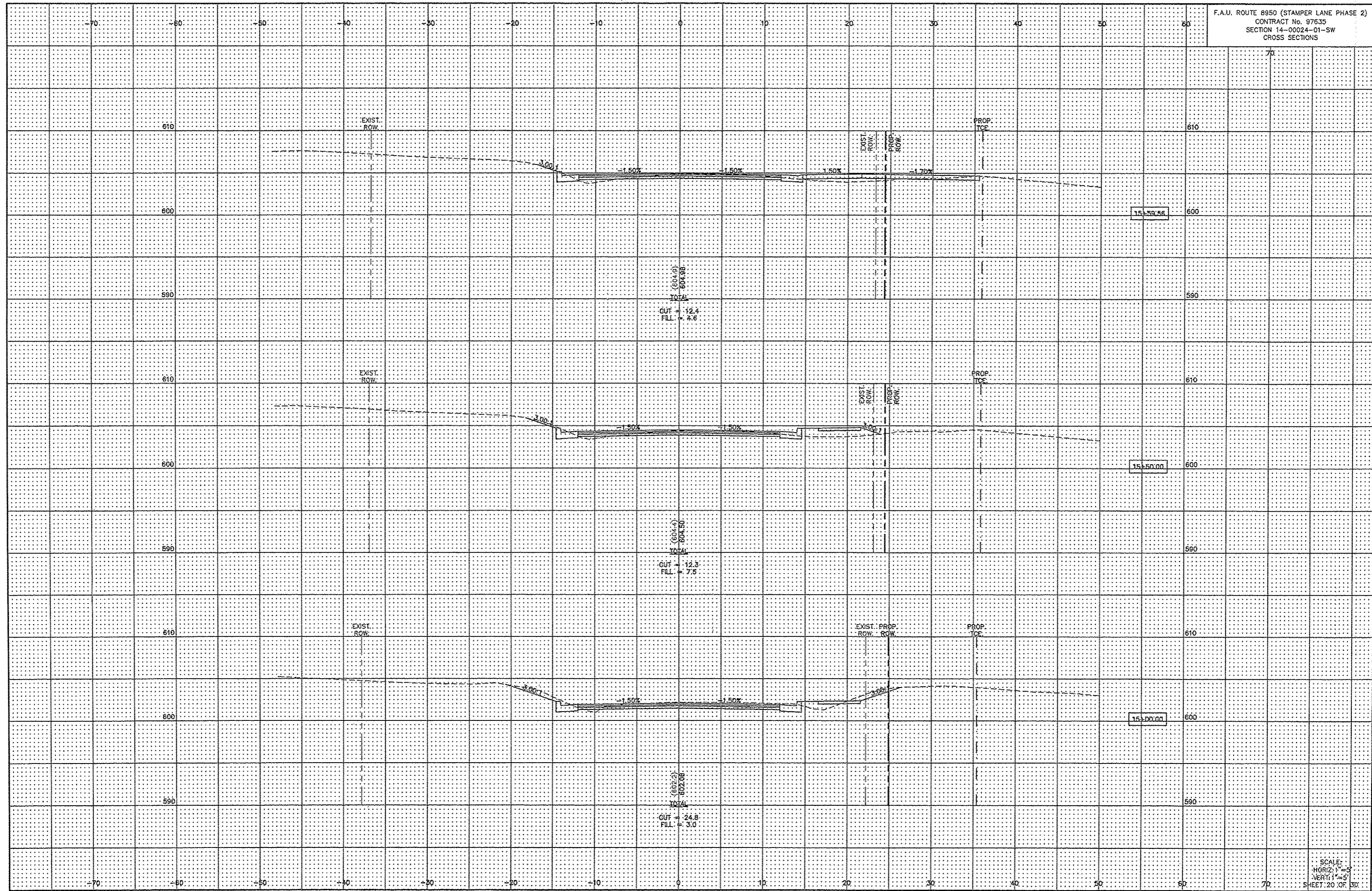


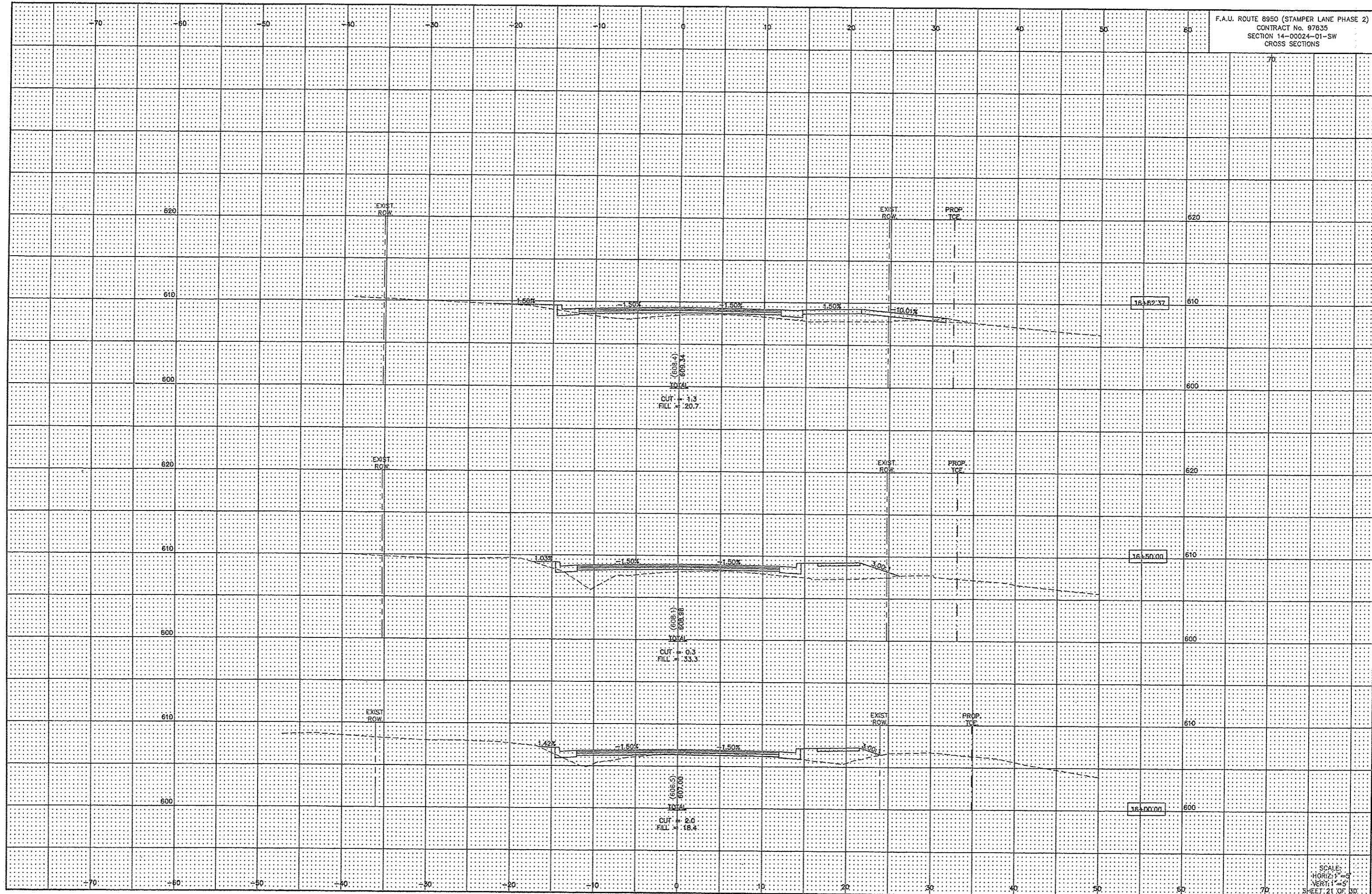




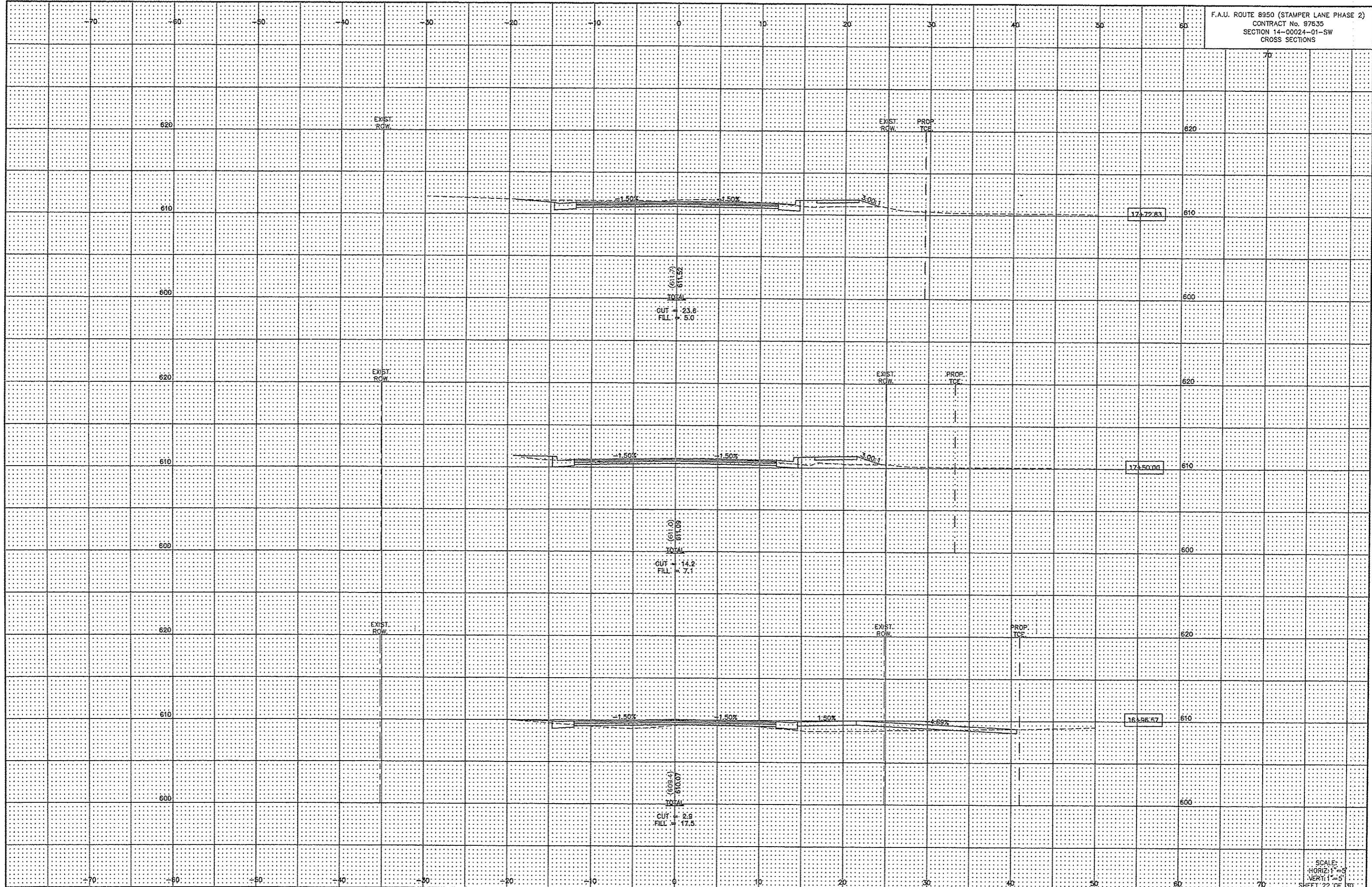




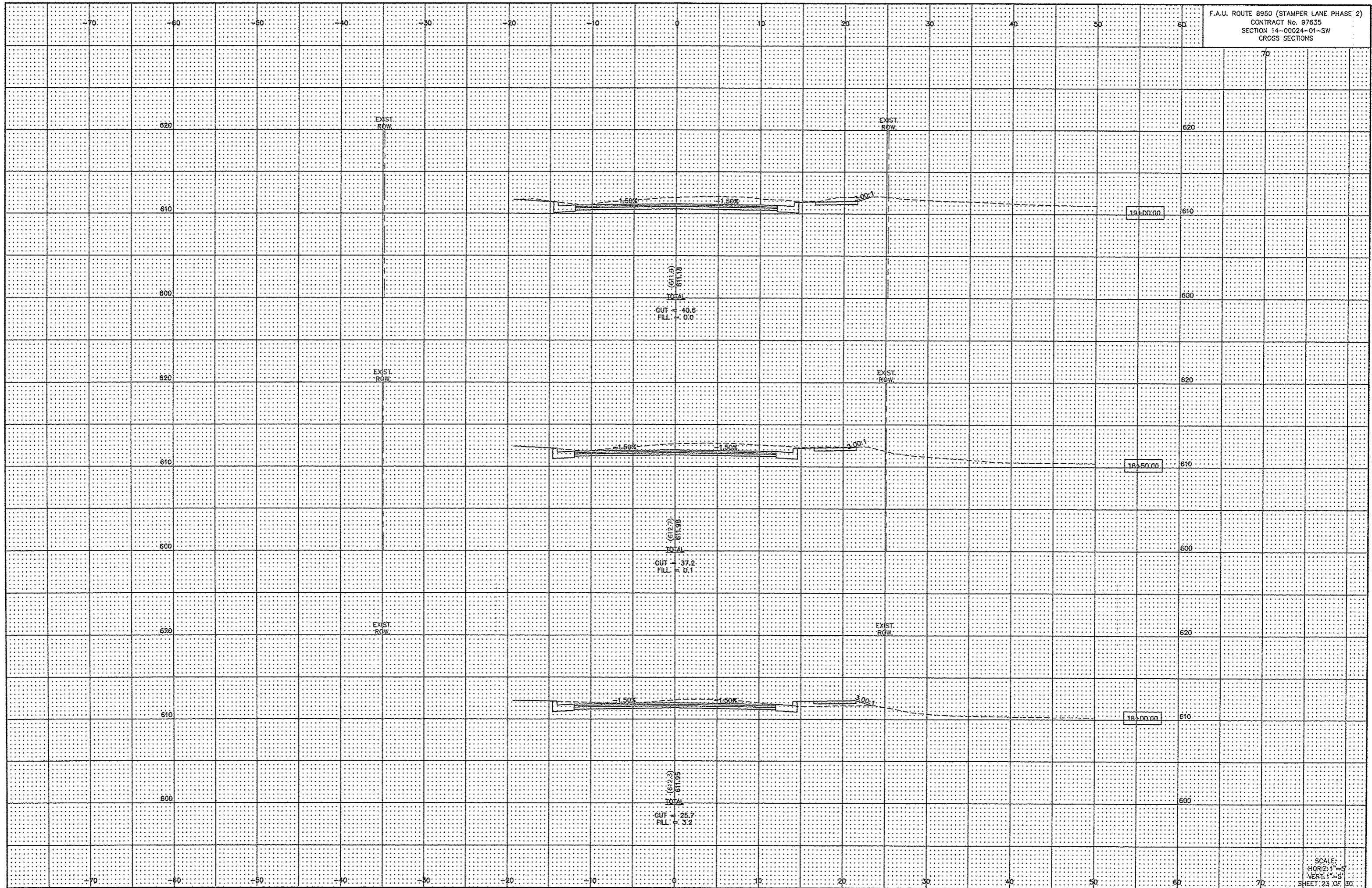




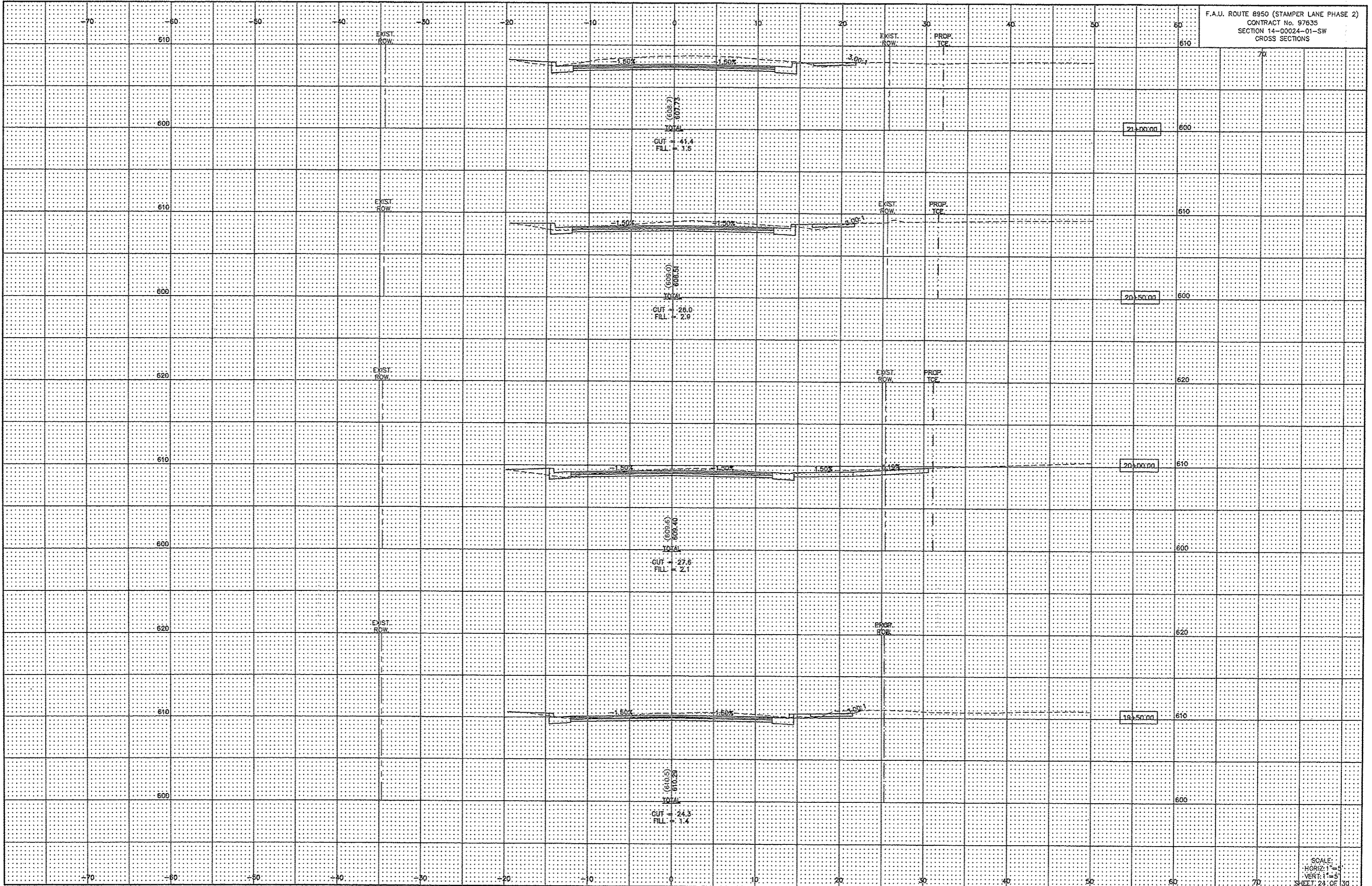




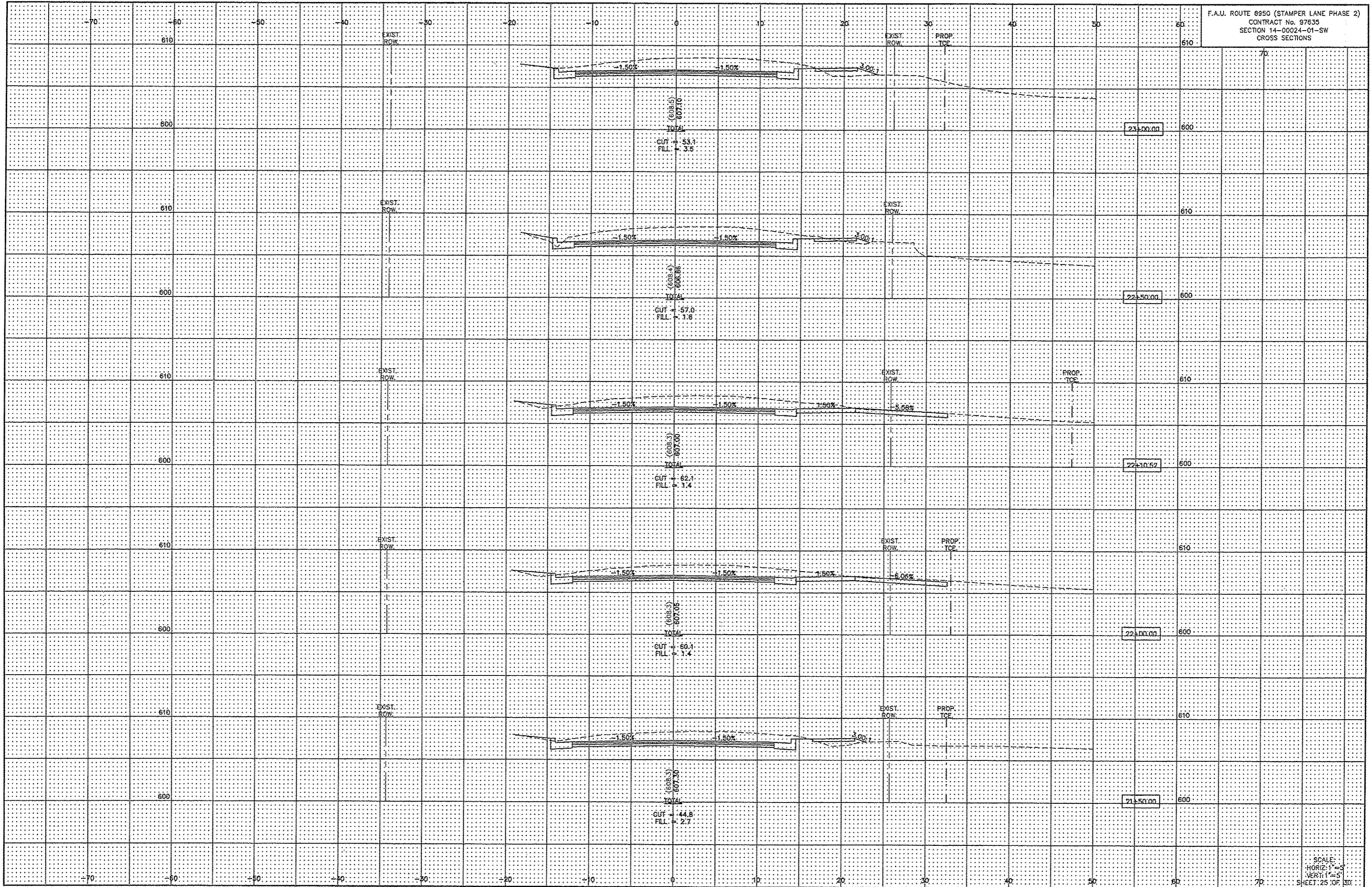
SCALE:  
 HORIZ: 1"=5'  
 VERT: 1"=5'  
 SHEET 22 OF 30

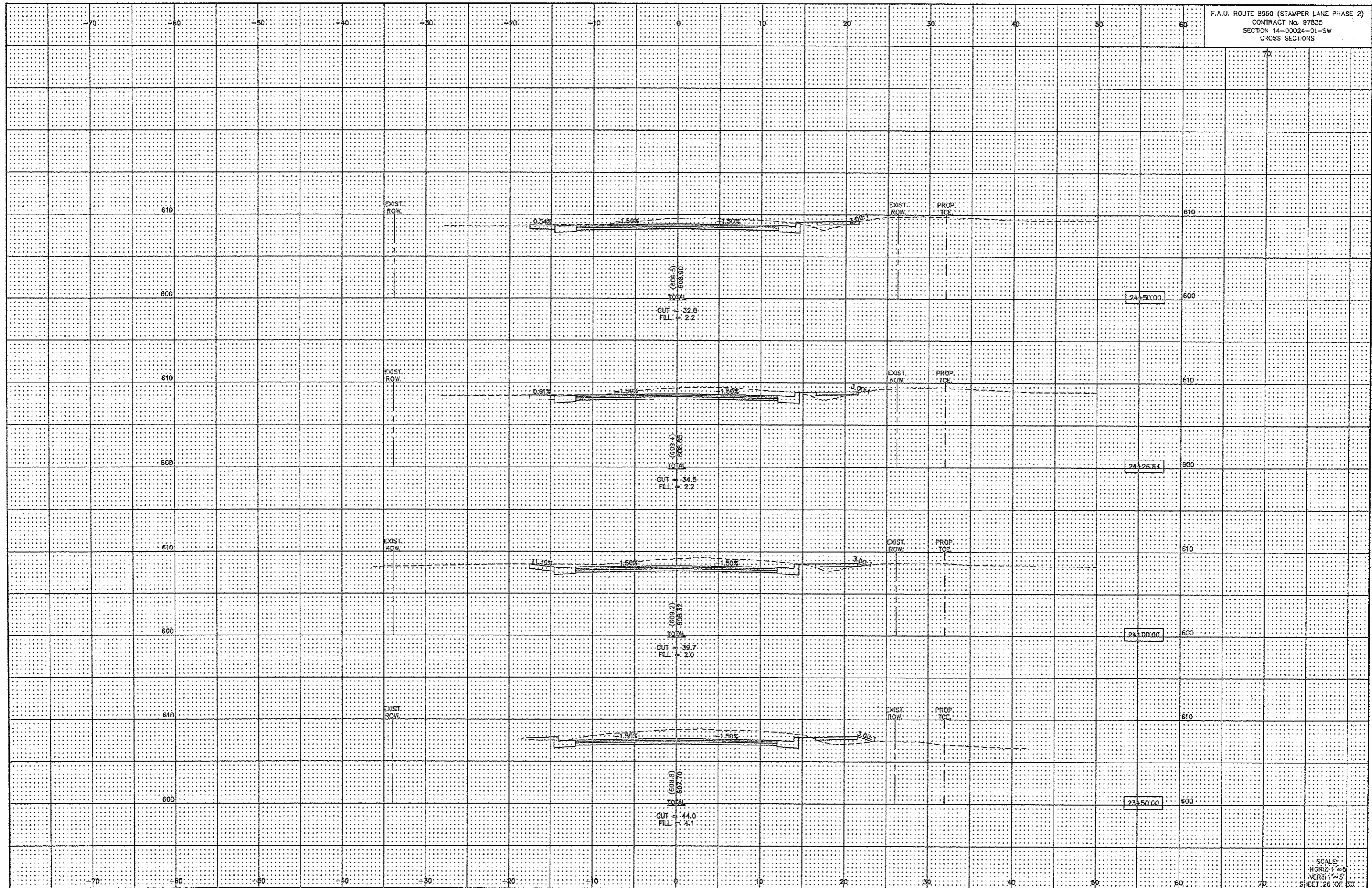




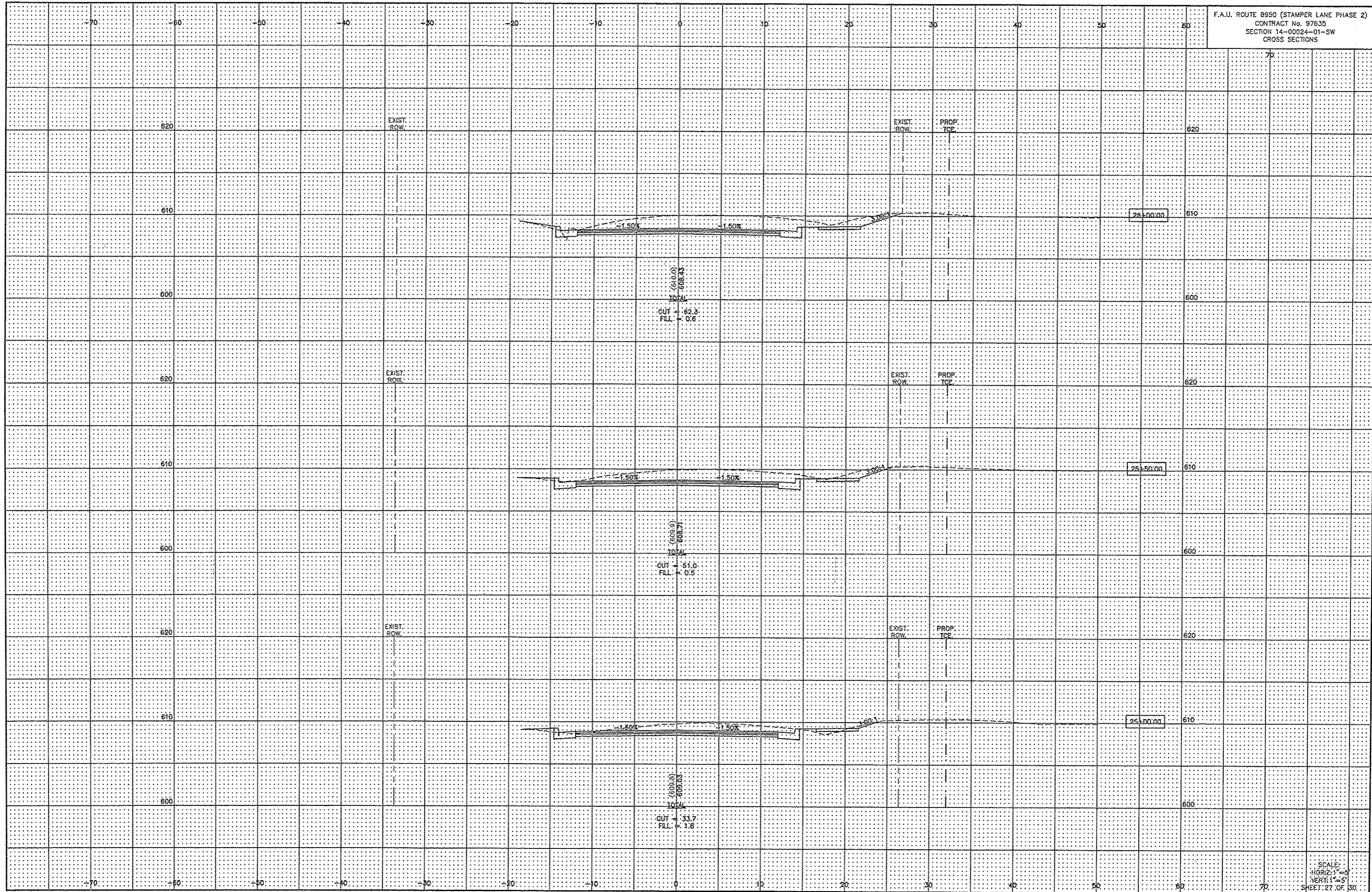




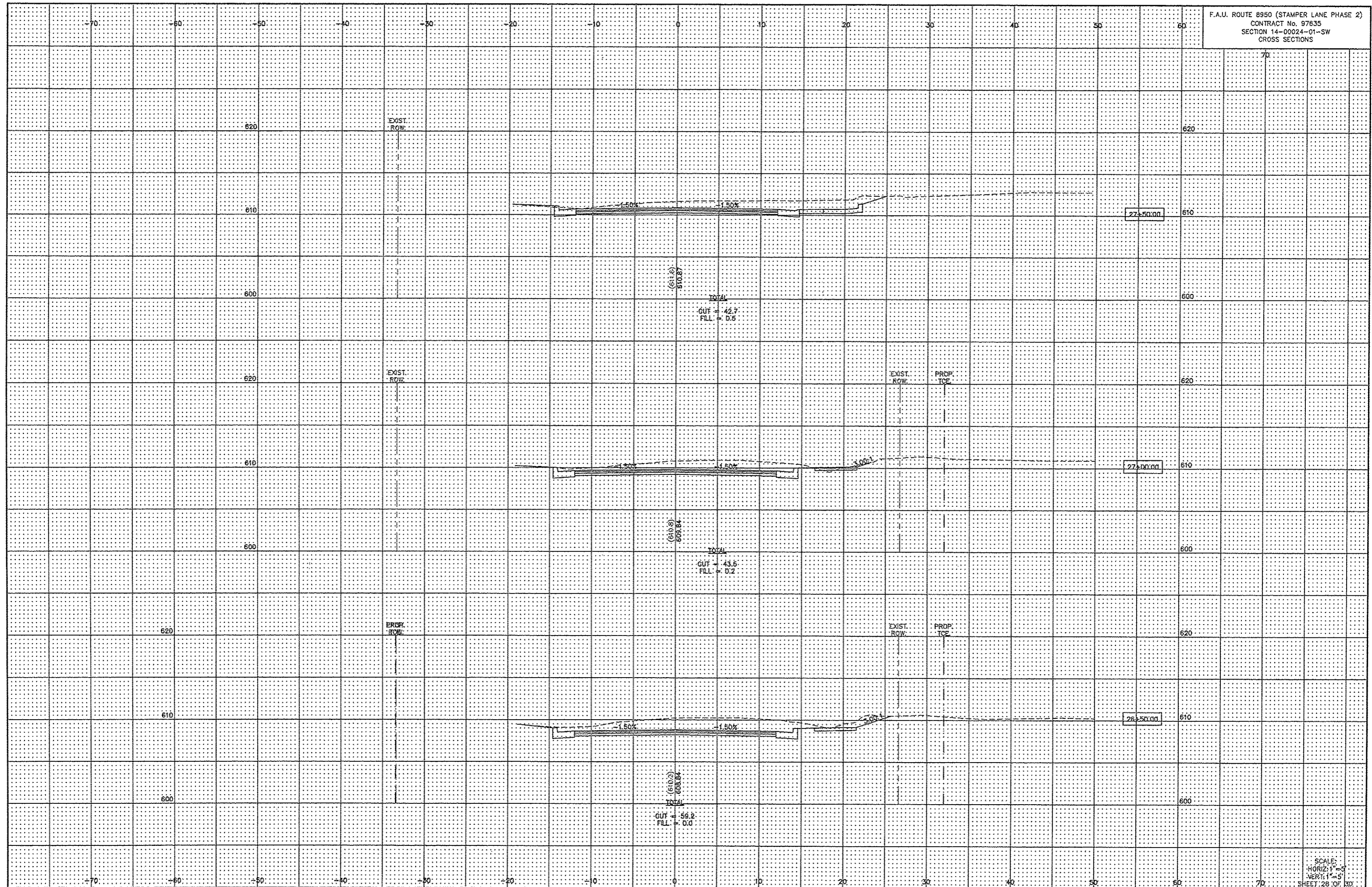












(610.9)  
510.87  
TOTAL  
GUT = -42.7  
FILL = 0.5

(610.9)  
608.84  
TOTAL  
GUT = -43.5  
FILL = 0.2

(610.2)  
608.84  
TOTAL  
GUT = -59.2  
FILL = 0.0

