

INDEX OF SHEETS

SHEET NO. DESCRIPTION

04-25-2025 LETTING ITEM 176

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UTILITIES

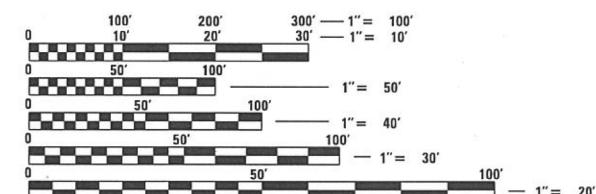
AMEREN ILLINOIS (ELECTRIC AND GAS)
#6 EXECUTIVE DRIVE
COLLINSVILLE, IL 62234
ATTN: STEVEN BALDWIN
217-234-0439
SBALDWIN@AMEREN.COM

NEW WAVE COMMUNICATIONS (CABLE)
1176 E. 1500 N. RD.
TAYLORVILLE, IL 62568
ATTN: ROBERT EVRLY
217-825-6512
ROBERT.EVRLY@CABLEONE.BZ

CONSOLIDATED COMMUNICATIONS (TELE AND FIBER OPTIC)
121 S. 7TH ST.
MATOON, IL 61938
ATTN: JASON RHODES
JASON.RHODES@CONSOLIDATED.COM
217-470-1474

CITY OF SHELBYVILLE (WATER AND SEWER)
110 S. MORGAN ST.
SHELBYVILLE, IL 62565
MIKE DAHLQUIST
MDAHLQUIST@MI2OPS.COM
765-470-1474

SHELBYVILLE ELECTRIC COOP (ELEC)
P.O. BOX 166
SHELBYVILLE, IL 62565
ATTN: JIM MATLOCK
217-774-3986
JMATLOCK@SHELBYELECTRIC.COOP



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.

BIKE PATH:
FUNCTIONAL CLASSIFICATION: MULTI-USE PATH
DESIGN SPEED: 20 MPH
DESIGN TRAFFIC: 50 ADT

IL ROUTE 16:
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL
DESIGN SPEED: 35-45 MPH
DESIGN TRAFFIC: 11500 ADT

CONTRACT NO. 95940 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS

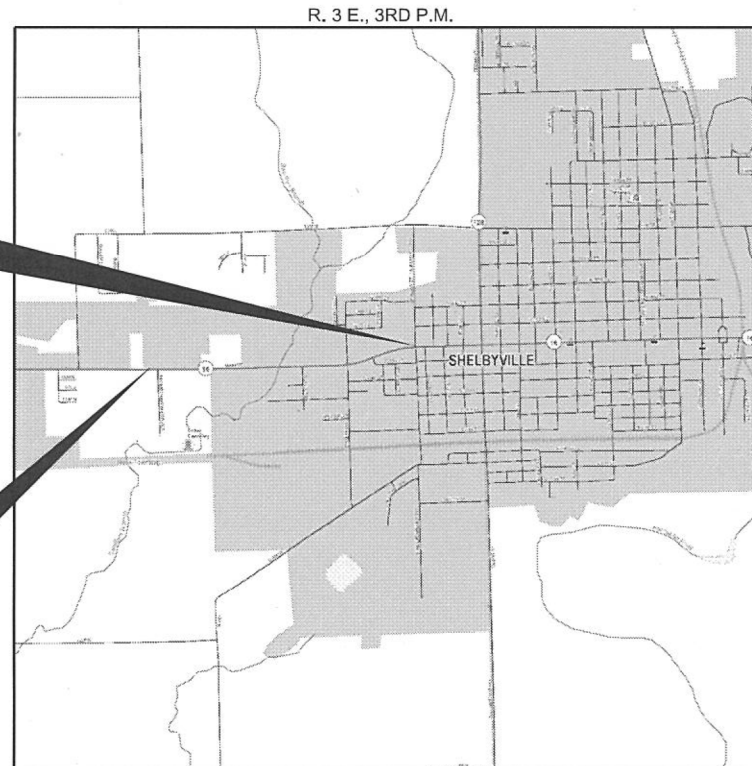
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED ILLINOIS TRANSPORTATION ENHANCEMENT PROGRAM

PHASE 10 BIKE PATH
SECTION 21-00060-01-BT
CITY OF SHELBYVILLE
F.A.P. 325 /IL ROUTE 16
C-97-019-22

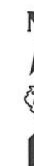
IMPROVEMENT ENDS
STATION 62+08

IMPROVEMENT BEGINS
STATION 10+50

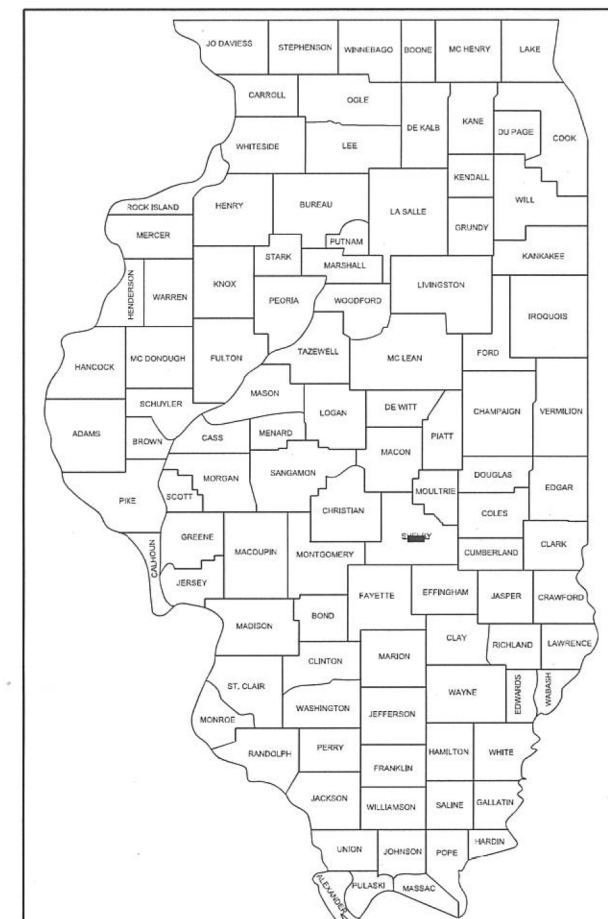


LOCATION MAP

APPROXIMATE SCALE: 0 1/2 MILE
NET LENGTH OF SECTION = 5158 FEET = 0.977 MILES



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 325	21-00060-01-BT	SHELBY	147	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO.	



LOCATION OF SECTION INDICATED THUS: -

[Signature]
CITY OF SHELBYVILLE MAYOR

PASSED

[Signature]
2-26-25

Releasing For
Bid Based on
Limited Review

DISTRICT SEVEN ENGINEER OF
LOCAL ROADS & STREETS

[Signature]
2-26-25
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS • STRUCTURAL ENGINEERS • LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com
184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION
PROJECT NUMBER: 19.0404 DATE: 01/24/2025

HIGHWAY STANDARDS:

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424021-07	DEPRESSED CORNER FOR SIDEWALKS
424026-04	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
424031-03	MEDIAN PEDESTRIAN CROSSING
515001-04	NAMEPLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 MM) THRU 84" (2100 MM) DIAMETER
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
602001-02	CATCH BASIN, TYPE A
602301-04	INLET TYPE A
602401-07	PRECAST MANHOLE, TYPE A, 4' (1.22 M) DIAMETER
602402-03	PRECAST MANHOLE, TYPE A, 5' (1.52 M) DIAMETER
602406-11	PRECAST MANHOLE, TYPE A, 6' (1.83 M DIAMETER
604001-05	FRAME AND LIDS, TYPE 1
604006-05	FRAME AND GRATE, TYPE 3
604036-03	GRATE, TYPE 8
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-04	OUTLET FOR CONCRETE CURB AND GUTTER, TYPE B-6.24 (B-15.60)
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-10	TRAFFIC CONTROL DEVICES
728001-01	TELESCOPING STEEL SIGN SUPPORT
780000-01	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL AND URBAN APPLICATIONS) (DISTRICT 7)
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-04	PEDESTRIAN PUSH BUTTON POST
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2022", (HERE IN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND THE ILLINOIS SUPPLEMENT; THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE DOCUMENTS.
2. ALL CLEARING AND GRUBBING, FENCE REMOVAL, AND REMOVAL OF AGGREGATE PAVEMENT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. 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 INDMDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
4. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION CALL J.U.L.I.E. AT 1-800-892-0123
5. 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.

6. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:		
STONE RIPRAP	1.75	TON / CU YD
AGGREGATE BASE COURSE /SURFACE COURSE	2.05	TON/CU YD

7. THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.

ESTIMATED QUANTITY: SEEDING, CLASS 2 =2.25 ACRES

8. THE FINAL SURFACE OF ALL EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE TOPSOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING TOP SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

9. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

10. COMMITMENTS:
NONE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
LOCATIONS(S)	DRIVEWAY
MIXTURE USE(S):	HMA SURFACE COURSE, IL-9.5, MIX "C", N70 (All LIFTS)
AC/PG:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndes = 70
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL - 9.5
FRICTION AGGREGATE:	MIXTURE C
MIXTURE WEIGHT:	112 LBS \ SY \ INCH THICKNESS
QUALITY MANAGEMENT PROGRAM	SATISFACTION OF THE ENGINEER
SUBLOT SIZE	3000
MATERIAL TRANSFER DEVICE (REQUIRED?)	N/A

SUMMARY OF QUANTITIES			
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY CONSTRUCTION TYPE CODE 0028
20200100	EARTH EXCAVATION	CU YD	670
20300100	CHANNEL EXCAVATION	CU YD	100
20400800	FURNISHED EXCAVATION	CU YD	5470
20700110	POROUS GRANULAR EMBANKMENT	TON	9
20800150	TRENCH BACKFILL	CU YD	223
25000200	SEEDING, CLASS 2	ACRE	2.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	187
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	187
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	187
25000700	AGRICULTURAL GROUND LIMESTONE	TON	4.25
25100115	MULCH, METHOD 2	ACRE	4.25
25100630	EROSION CONTROL BLANKET	SQ YD	1664
25100900	TURF REINFORCEMENT MAT	SQ YD	135
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	414
28000305	TEMPORARY DITCH CHECKS	FOOT	300
28000400	PERIMETER EROSION BARRIER	FOOT	1405
28000500	INLET AND PIPE PROTECTION	EACH	18
28100207	STONE RIPRAP, CLASS A4	TON	63
28100209	STONE RIPRAP, CLASS A5	TON	250
28200200	FILTER FABRIC	SQ YD	288
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	87
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	898
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	42991
42400800	DETECTABLE WARNINGS	SQ FT	282
44000100	PAVEMENT REMOVAL	SQ YD	70
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	954
44000400	GUTTER REMOVAL	FOOT	302
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	578
44000600	SIDEWALK REMOVAL	SQ FT	72
44003100	MEDIAN REMOVAL	SQ FT	306
44201337	CLASS C PATCHES, TYPE I, 9 INCH	SQ YD	9
44201341	CLASS C PATCHES, TYPE II, 9 INCH	SQ YD	21
44201749	CLASS D PATCHES, TYPE I, 9 INCH	SQ YD	11
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	6
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	23
50102400	CONCRETE REMOVAL	CU YD	3.8
50104400	CONCRETE HEADWALL REMOVAL	EACH	2
50105220	PIPE CULVERT REMOVAL	FOOT	317
50300225	CONCRETE STRUCTURES	CU YD	27.4
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	6.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5436
51201400	FURNISHING STEEL PILES HP10X42	FOOT	160
51203400	TEST PILE STEEL HP10X42	EACH	1
51202305	DRIVING PILES	FOOT	160
51204650	PILE SHOES	EACH	6
51500100	NAME PLATES	EACH	1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	220
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1
54002070	EXPANSION BOLTS 3/4 INCH X 15 INCH	EACH	32

* SPECIALTY ITEM

SUMMARY OF QUANTITIES			
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY CONSTRUCTION TYPE CODE 0028
54010303	PRECAST CONCRETE BOX CULVERTS 3' X 3'	FOOT	14
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	1
54262718	METAL FLARED END SECTIONS 18"	EACH	7
54262724	METAL FLARED END SECTIONS 24"	EACH	2
542D0215	PIPE CULVERTS, CLASS D, TYPE 1 10"	FOOT	58
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	138
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	34
542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	8
550A005C	STORMSEWERS, CLASS A, TYPE 1 12"	FOOT	12
550A009C	STORMSEWERS, CLASS A, TYPE 1 18"	FOOT	244
550A012C	STORMSEWERS, CLASS A, TYPE 1 24"	FOOT	172
550A016C	STORMSEWERS, CLASS A, TYPE 1 36"	FOOT	8
550A019C	STORMSEWERS, CLASS A, TYPE 1 48"	FOOT	16
5510050C	STORMSEWER REMOVAL 12"	FOOT	8
5510190C	STORMSEWER REMOVAL 48"	FOOT	10
5640010C	FIRE HYDRANTS TO BE MOVED	EACH	3
5650030C	DOMESTIC METER VALUITS TO BE ADJUSTED	EACH	2
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	90
5870030C	CONCRETE SEALER	SQ FT	475
5910010C	GEOCOMPOSITE WALL DRAIN	SQ YD	45
60100945	PIPE DRAINS 12"	FOOT	52
60108212	PIPE UNDER DRAINS, TYPE 2, 12"	FOOT	16
60146307	PIPE UNDER DRAINS FOR STRUCTURES (SPECIAL) 6"	FOOT	100
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1
6021840C	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
6021900C	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1
6022110C	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
6022120C	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	2
6022380C	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
6023620C	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
6025550C	MANHOLES TO BE ADJUSTED	EACH	1
6026010C	INLETS TO BE ADJUSTED	EACH	1
6026660C	VALVE BOXES TO BE ADJUSTED	EACH	4
6050004C	REMOVING MANHOLES	EACH	1
6050006C	REMOVING INLETS	EACH	2
60600095	CLASS SIC CONCRETE (OUTLET)	CU YD	4
60600605	CONCRETE CURB, TYPE B	FOOT	1069
6060380C	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	640
6060440C	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	67
6060500C	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	170
6060860C	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	37
6061040C	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	55
6061830C	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	306
6710010C	MOBILIZATION	LSUM	1
7200010C	SIGN PANEL - TYPE 1	SQ FT	111
7240010C	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	4

* SPECIALTY ITEM

SUMMARY OF QUANTITIES			
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY CONSTRUCTION TYPE CODE 0028
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	5
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	285
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	78
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	185
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	875
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	205
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	131
78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	32
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	174
78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	349
78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	59
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	534
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	98
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	123
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1162
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1575
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	203
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	148
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.	EACH	4
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	3
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20
87900200	DRILL EXISTING HANDHOLE	EACH	4
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
88600100	DETECTOR LOOP, TYPE I	FOOT	691
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	2
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	5000
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2
89502380	REMOVE EXISTING HANDHOLE	EACH	1
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	727
X0323344	VANE DRAINS	FOOT	30
X0327301	RELOCATE EXISTING MAILBOX	EACH	1
X4060286	HOT-MX ASPHALT DRIVEWAY PAVEMENT, 6"	SQ YD	27
X5091725	BICYCLE RAILING (SPECIAL)	FOOT	321
X5400504	PRECAST CONCRETE BOX CULVERTS 2' X 2' (SPECIAL)	FOOT	10
X5427600	REMOVE AND RELOCATE END SECTIONS	EACH	1
X5427602	REMOVE EXISTING FLARED END SECTION	EACH	13
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	9
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	6
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
X8100105	CONDUIT SPLICE	EACH	5
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
XX007285	MODIFY VIDEO PROCESSING UNIT	EACH	1
Z0013798	CONSTRUCTION LAYOUT	LSUM	1

* SPECIALTY ITEM

FILE NAME = 190404-shi-summary.dgn		USER NAME = tlmk	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	SUMMARY OF QUANTITIES					F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HLR HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LB / PE / SE CORP., 184.000959			DRAWN - D.M.F.	REVISED -							325	21-00060-01-BT	SHELBY	147	3
PLOT SCALE = \$SCALE\$		CHECKED - J.W.F.	REVISED -	CONTRACT NO. 95940											
PLOT DATE = 2/24/2025		DATE - 01/24/2025	REVISED -	SCALE:		SHEET NO. 1 OF 1 SHEETS		C-97-019-22 ILLINOIS FED. AID PROJECT V44(K)(216)							

CURB AND GUTTER SCHEDULE											
LOCATION	GUTTER REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	MEDIAN REMOVAL	CLASS SI CONCRETE (OUTLET)	CONCRETE CURB, TYPE B	COMBINATION CONCRETE CURB AND GUTTER, TYPE					CONCRETE MEDIAN SURFACE, 4 INCH
	44000400	44000500	44003100	60600095	60600605	60603800	60604400	60605000	60608600	60610400	60618300
	FOOT	FOOT	SQ FT	CU YD	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT
STA. 10+87 TO STA. 10+92		10					10				
STA. 11+08 TO STA. 11+24		37							37		
STA. 11+11 TO STA. 11+27		55	306							55	306
STA. 11+72 TO STA. 11+86		17					17				
STA. 18+34 TO STA. 18+44		16					16				
STA. 19+19 TO STA. 19+37		24					24				
STA. 24+54 TO STA. 24+64					20						
STA. 24+61 TO STA. 24+67		15				15					
STA. 24+96 TO STA. 25+00		15				15					
STA. 24+98 TO STA. 25+08					20						
STA. 27+69 TO STA. 27+76	28										
STA. 28+03 TO STA. 28+10	8										
STA. 28+16 TO STA. 28+26					20						
STA. 28+20 TO STA. 28+29		37				37					
STA. 28+60 TO STA. 28+68		38				38					
STA. 28+63 TO STA. 28+73					20						
STA. 32+35 TO STA. 33+32	96										
STA. 33+29 TO STA. 33+39	17										
STA. 33+62 TO STA. 33+76					25						
STA. 33+71 TO STA. 33+79		37				37					
STA. 34+08 TO STA. 34+17		36				36					
STA. 34+12 TO STA. 34+26					24						
STA. 34+15 TO STA. 34+52	45			4							
STA. 34+48 TO STA. 35+45	93										
STA. 43+05 TO STA. 43+22					27						
STA. 43+14 TO STA. 43+25		15						15			
STA. 43+61 TO STA. 43+75		17						17			
STA. 43+65 TO STA. 43+84					29						
STA. 47+28 TO STA. 47+43		23						23			
STA. 47+74 TO STA. 47+80		12						12			
STA. 48+22 TO STA. 48+54		44						44			
STA. 48+31 TO STA. 48+71		27						27			
STA. 49+24 TO STA. 49+40		29			26	29					
STA. 49+72 TO STA. 50+73		42			75	42					
STA. 51+10 TO STA. 51+59					85	49					
STA. 51+95 TO STA. 52+39					76	50					
STA. 52+75 TO STA. 53+20					79	43					
STA. 53+63 TO STA. 54+72					15	53					
STA. 54+69 TO STA. 54+79	15										
STA. 55+10 TO STA. 56+68					21	58					
STA. 57+06 TO STA. 57+39					57	34					
STA. 57+75 TO STA. 58+14					67	28					
STA. 58+50 TO STA. 58+90					69	29					
STA. 59+25 TO STA. 60+22					180	33					
STA. 60+59 TO STA. 61+29					134	14					
STA. 61+36 TO STA. 61+49		15						15			
STA. 61+84 TO STA. 61+97		17						17			
TOTAL	302	578	306	4	1069	640	67	170	37	55	306

BIKEPATH SCHEDULE	
LOCATION	PCC SIDEWALK 5" *
	42400200
	SQ FT
STA. 10+50 TO STA. 24+63.15	12,450
STA. 24+97.15 TO STA. 35+17.05	9,468
STA. 35+17.05 TO STA. 35+92.31	
STA. 35+92.31 TO STA. 47+70.90	11,357
STA. 48+23.90 TO STA. 62+08	9,716
TOTAL	42991
* INCLUDES ADA COMPLIANT CURB RAMPS. SEE CURB RAMP DETAILS AND STANDARDS FOR DIMENSIONS.	

BICYCLE RAILING SCHEDULE	
LOCATION	BICYCLE RAILING, SPECIAL
	X5091725
	FOOT
RT. STA. 15+25.00 TO STA. 16+05.00	80
LT. STA. 15+50.00 TO STA. 15+90.00	40
LT. STA. 34+25.00 TO STA. 35+21.11	97
RT. STA. 35+05.54 TO STA. 35+15.33	10
RT. STA. 35+88.28 TO STA. 35+98.07	10
LT. STA. 35+94.05 TO STA. 36+77.03	84
TOTAL	321

PAVEMENT PATCHING SCHEDULE						
LOCATION	CLASS C PATCHES, TYPE I, 9 INCH	CLASS C PATCHES, TYPE II, 9 INCH	CLASS D PATCHES, TYPE I, 9 INCH	CLASS D PATCHES, TYPE II, 9 INCH	CLASS D PATCHES, TYPE III, 9 INCH	PAVEMENT REMOVAL
	44201337	44201341	44201749	44201753	44201757	44000100
	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
STA. 10+91			3			3
STA. 11+20					23	23
STA. 11+76			4			4
STA. 18+42			4			4
STA. 19+24				6		6
STA. 47+30		5				5
STA. 47+68	4					4
STA. 48+26		10				10
STA. 48+68		6				6
STA. 61+35	2					2
STA. 61+90	3					3
TOTAL	9	21	11	6	23	70

TEMPORARY DITCH CHECKS	
LOCATION	TEMPORARY DITCH CHECKS
	28000305
	FOOT
RT. STA. 12+50.00	10
RT. STA. 13+00.00	10
RT. STA. 13+50.00	10
RT. STA. 14+00.00	10
RT. STA. 14+50.00	10
RT. STA. 15+00.00	10
RT. STA. 15+50.00	10
RT. STA. 23+50.00	10
RT. STA. 31+50.00	10
RT. STA. 31+75.00	10
RT. STA. 32+00.00	10
LT. STA. 32+25.00	10
LT. STA. 32+65.00	10
LT. STA. 33+05.00	10
LT. STA. 33+30.00	10
LT. STA. 33+40.00	10
LT. STA. 33+50.00	10
LT. STA. 34+75.00	10
LT. STA. 35+00.00	10
LT. STA. 35+25.00	10
LT. STA. 35+50.00	10
LT. STA. 35+70.00	10
LT. STA. 36+20.00	10
LT. STA. 36+70.00	10
LT. STA. 37+20.00	10
LT. STA. 37+70.00	10
LT. STA. 38+20.00	10
LT. STA. 55+20.00	10
LT. STA. 55+40.00	10
LT. STA. 55+60.00	10
TOTAL	300
USE	300

PAVEMENT MARKING SCHEDULE											
LOCATION	THERMOPLASTIC PAVEMENT MARKING -						PAINT PAVEMENT MARKING -				PAVEMENT MARKING REMOVAL - WATER BLASTING
	LETTERS AND SYMBOLS	LINE 4"	LINE 6"	LINE 12"		LINE 24"	LETTERS AND SYMBOLS	LINE 4"	LINE 6"	LINE 24"	
	SOLID WHITE ARROWS AND "ONLY"	SOLID DOUBLE YELLOW	SOLID WHITE LINE	SOLID WHITE LINE	SOLID YELLOW LINE	SOLID WHITE STOP BAR	SOLID WHITE ARROWS AND "ONLY"	SOLID YELLOW CENTERLINE	SOLID WHITE LINE	SOLID WHITE STOP BAR	
	78000100	78000200	78000400	78000600		78000650	78001100	78001110	78001130	78001180	78300202
	SQ FT	FOOT	FOOT	FOOT		FOOT	SQ FT	FOOT	FOOT	FOOT	SQ FT
WALMART (WEST ENTRANCE)											
CL STA. 10+89 TO STA. 11+17 (CROSSWALK)			46								
CL STA.11+27 TO STA. 11+83 (CROSSWALK)			96								
CL STA. 10+76 TO STA. 11+27 (ISLAND)			157	63							
LT STA. 10+92 TO STA. 11+11 (RIGHT TURN LANE)	15.6					19					68
WALMART (EAST ENTRANCE)											
CL STA. 18+37 TO STA. 19+31 (CROSSWALK)			171								
RT. STA. 18+16 TO STA. 18+63 (ISLAND)			129	78							
RT. STA. 19+18 TO STA. 19+53 (ISLAND)			92	58							
LT. STA. 18+47 TO STA. 18+75 (TURN LANES)	31.2	131	30		6	28					156
RT. STA. 19+21 TO STA. 19+41 (RIGHT TURN LANE)	15.6					18					36
HOLLY BROOK DRIVE											
LT. STA. 43+24 TO STA. 43+43						19					
HEINLEIN DRIVE											
RT. STA. 47+91 TO STA. 48+30 (SOUTH LEG)							15.6	84	40	34	135
RT. STA. 47+42 TO STA. 48+30 (CROSSWALK)									168		
LT. STA. 47+79 TO STA. 48+05 (NORTH LEG)							15.6	90	43	25	57
CL STA. 47+77 TO STA. 48+30 (CROSSWALK)									98		
RT. STA. 48+42 TO STA. 48+82 (EAST LEG)	15.6	54	22			28					82
RT. STA. 48+42 TO STA. 48+68 (CROSSWALK)			132								
HICKORY STREET											
LT. STA. 61+48 TO STA. 61+67 (NORTH LEG)						19					
SUBTOTAL	78	185	875	199	6	131	31.2	174	349	59	533.4
TOTAL	78	185	875	205		131	32	174	349	59	534

CULVERT AND STORM SEWER SCHEDULE																						
FROM			TO			PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS D, TYPE 1 10"	PIPE CULVERTS, CLASS D, TYPE 1 18"	PIPE CULVERTS, CLASS D, TYPE 1 24"	PIPE CULVERTS, CLASS D, TYPE 1 30"	STORM SEWERS, CLASS A, TYPE 1 12"	STORM SEWERS, CLASS A, TYPE 1 18"	STORM SEWERS, CLASS A, TYPE 1 24"	STORM SEWERS, CLASS A, TYPE 1 36"	STORM SEWERS, CLASS A, TYPE 1 48"	STORM SEWER REMOVAL 12"	STORM SEWER REMOVAL 48"	PIPE DRAINS 12"	PIPE UNDER DRAINS, TYPE 2, 12"	VANE DRAINS	REMOVE AND RELOCATE END SECTIONS	TRENCH BACKFILL
						50105220	542D0215	542D0223	542D0229	542D0235	550A0050	550A0090	550A0120	550A0160	550A0190	55100500	55101900	60100945	60100945	X0323344	X5427600	20800150
STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	CU YD
16+50	17.5	RT	15+80	10	RT							64										
17+50	13.0	RT	16+50	18	RT							96										
20+50	14.0	RT	19+64	8	RT							84										
24+58	12.0	LT	24+50	14	RT		28															
25+06	16.0	RT	24+56	16	RT	54		44														8.0
27+18	18.0	RT	27+58	18	RT	45		34														8.7
27+72	12.0	LT	27+71	17	RT		30															
28+11	20.0	RT	28+77	17	RT	61		60														17.6
30+20	25.0	RT	30+60	26	RT	41			34													29.4
32+75	22.0	RT	33+34	19	LT								62									33.9
33+34	19.0	LT	34+50	32	LT	116							110									69.3
36+14.5	35.0	LT																10				
36+94	42.0	LT																14				
38+70	44.0	LT																12				
43+88	17.0	LT	43+88	23	LT					8												
44+45	31.0	LT																12				
44+75	23.0	LT	44+59	39	LT									16		10						
48+33	29.0	LT	48+50	30	LT								8						16			
48+50	17.5	LT																		1		52.9
48+64	27.0	LT																4				
51+79	7.0	LT																		30		
53+82	4.0	LT	53+86	10	LT						4					4						
53+83.2	21.6	LT	53+86.5	10.3	LT						4											
53+86.5	10.3	LT	53+88.50	4	LT						4					4						2.9
TOTAL						317	58	138	34	8	12	244	172	8	16	8	10	52	16	30	1	223.0

EROSION CONTROL AND SEEDING SCHEDULE														
LOCATION	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT*	PHOSPHOROUS FERTILIZER NUTRIENT*	POTASSIUM FERTILIZER NUTRIENT*	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	EROSION CONTROL BLANKET	TURF REINFORCEMENT MAT	FILTER FABRIC	TEMPORARY EROSION CONTROL SEEDING**	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	STONE RIPRAP, CLASS A4	STONE RIPRAP, CLASS A5
	25000200	25000400	25000500	25000600	25000700	25100115	25100630	25100900	28000200	28000250	28000400	28000500	28100207	28100209
	ACRE	POUND	POUND	POUND	TON	ACRE	SQ YD	SQ YD	SQ YD	POUND	FOOT	EACH	TON	TON
LT. STA. 10+50 TO LT. STA. 18+43	0.04	4	4	4	0.1	0.1				8				
RT. STA. 10+50 TO LT. STA. 18+34	0.22	20	20	20	0.4	0.4			38	43		1	29	
LT. STA. 19+20 TO CL. STA. 28+27	0.06	5	5	5	0.1	0.1				12		2		
RT. STA. 19+35 TO RT. STA. 28+26	0.27	24	24	24	0.5	0.5		11		53		4		
LT. STA. 28+63 TO CL. STA. 35+17	0.20	18	18	18	0.4	0.4				39		1		
RT. STA. 28+63 TO RT. STA. 35+17	0.20	18	18	18	0.4	0.4	442	112		40	125	2		
LT. STA. 35+17 TO LT. STA. 35+92									210					250
LT. STA. 35+92 TO CL. STA. 47+77	0.65	59	59	59	1.3	1.3	605		22	130	910	1	18	
RT. STA. 35+92 TO RT. STA. 47+74	0.16	14	14	14	0.3	0.3				33		1		
LT. STA. 48+24 TO CL. STA. 60+22	0.20	18	18	18	0.4	0.4	617		18	40	370	3	16	
RT. STA. 48+47 TO RT. STA. 62+08	0.08	7	7	7	0.2	0.2		12		16		3		
TOTAL	2.08	187	187	187	4.1	4.2	1664	135	288	414	1405	18	63	250
USE	2.25	187	187	187	4.25	4.25	1664	135	288	414	1405	18	63	250

* 90 LBS/ACRE EACH
** 100 LBS/ACRE FOR 2 APPLICATIONS

DRAINAGE STRUCTURE SCHEDULE																									
LOCATION			BOX CULVERT END SECTIONS, CULVERT NO. 1	PRECAST CONCRETE BOX CULVERTS 3' X 3'	METAL FLARED END SECTIONS 18"	METAL FLARED END SECTIONS 24"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	MANHOLES, TYPE A 4'-DIAMETER, TYPE 1 FRAME CLOSED LID	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	MANHOLES, TYPE A, 5'- DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 5'- DIAMETER, TYPE 3 FRAME AND GRATE	MANHOLES, TYPE A 6'-DIAMETER, TYPE 1 FRAME CLOSED LID	INLETS, TYPE A, TYPE 8 GRATE	MANHOLES TO BE ADJUSTED	INLETS TO BE ADJUSTED	REMOVING MANHOLES	REMOVING INLETS	CONCRETE HEADWALL REMOVAL	REMOVE EXISTING FLARED END SECTION	PRECAST CONCRETE BOX CULVERT 2'X2' (SPECIAL)	SANITARY MANHOLES TO BE ADJUSTED
			54001001	54010303	54262718	54262724	54213657	54213669	54213675	54213693	60200805	60218400	60219000	60221100	60221200	60223800	60236200	60255500	60260100	60500040	60500060	50104400	X5427602	X5400504	X6026050
STATION	OFFSET	RT/LT	EACH	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	EACH
15+70	7.0	LT/RT		14																					
15+80	10.0	RT			1																				
16+50	18.5	RT									1														
17+50	13.0	RT										1											1		
19+64	8.0	RT										1											1		
20+50	14.0	RT															1								
24+56	16.0	RT			1																		1		
25+06	16.0	RT			1																		1		
27+18	18.0	RT			1																		1		
27+58	18.0	RT			1																		1		
28+11	20.0	RT			1																		1		
28+77	17.0	RT			1																		1		
30+20	25.0	RT				1																	1		
30+60	26.0	RT				1																	1		
32+75	22.0	RT								1				1										1	
33+34	19.0	LT																						1	
34+50	32.0	LT								1														1	
43+88	23.0	LT									1											1			
44+59	39.0	LT								1													1		
44+75	23.0	LT														1									
48+50	17.5	LT	1																			1		10	
50+21	1.0	RT																1							
50+50	10.0	LT																							1
50+63	1.0	RT																							1
51+59	6.0	LT																	1						
53+13	1.0	LT																							1
53+82.3	21.6	LT					1																		
53+86.5	10.3	LT												1							1				
54+65	4.0	RT																							1
57+99	0.0	RT																							1
60+70	3.0	LT																							1
61+36	5.0	RT													1										
61+93	2.0	RT													1					1					
		TOTAL	1	14	7	2	1	2	1	1	1	2	1	1	2	1	1	1	1	1	2	2	13	10	6

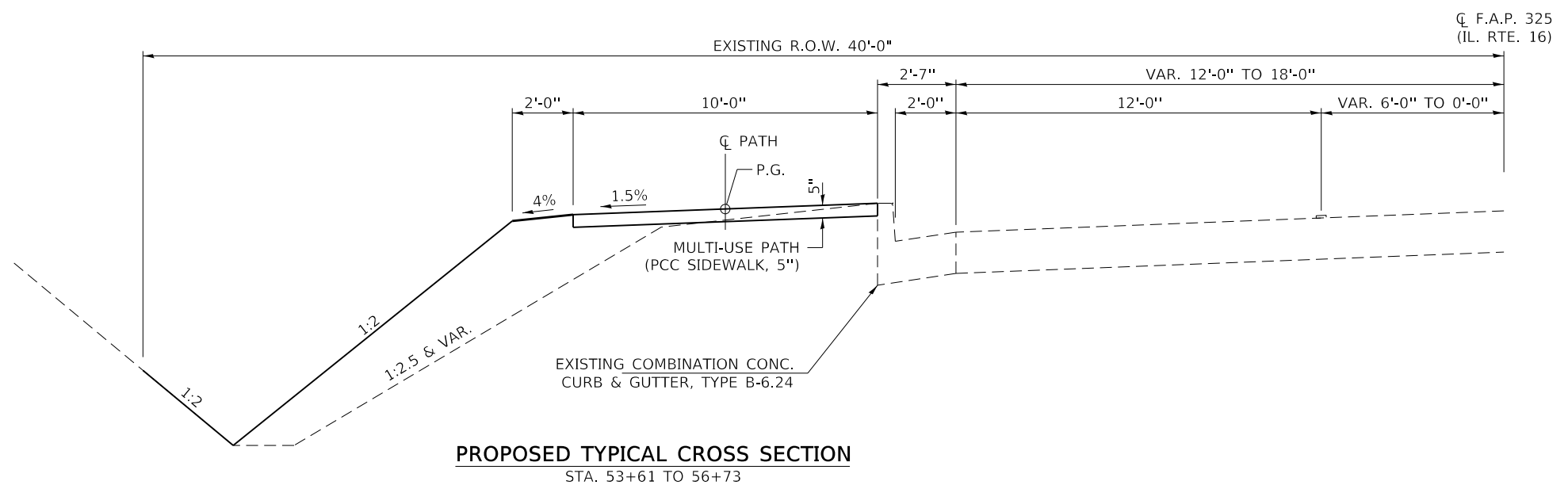
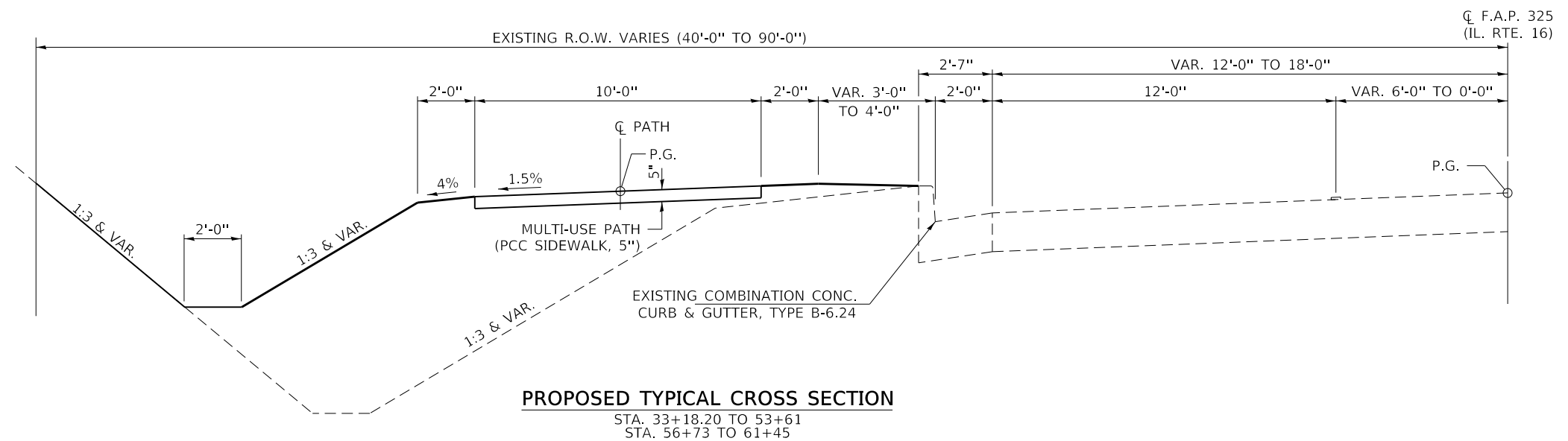
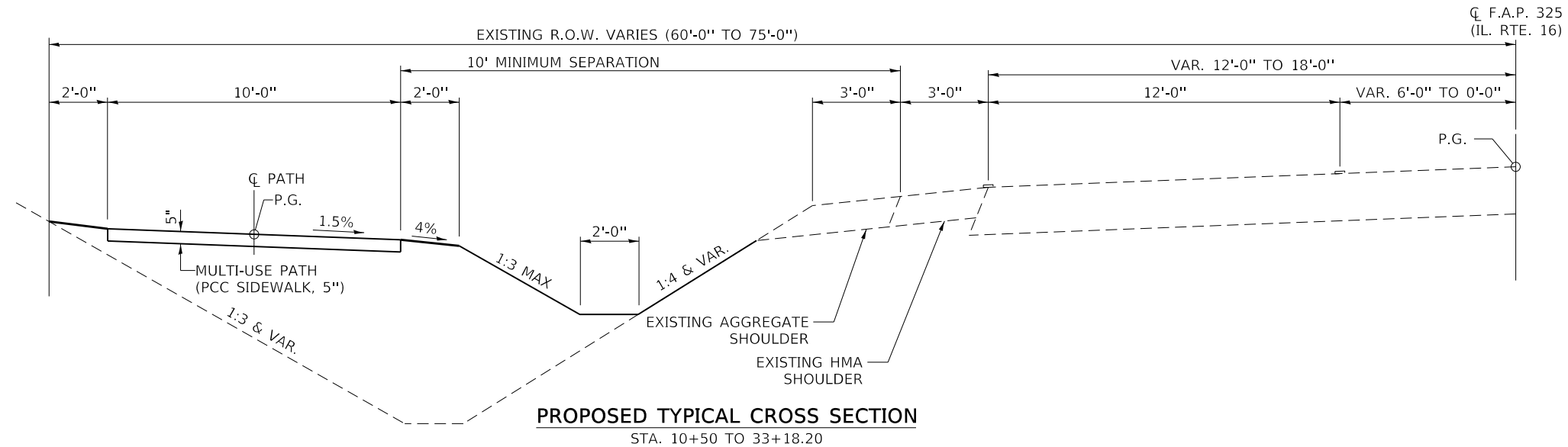
SIGNING SCHEDULE										
LOCATION	SIGN PANEL - TYPE 1						REMOVE SIGN PANEL ASSEMBLY - TYPE A	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	RELOCATE SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT
	BIKE PATH SIGNS					ROADWAY SIGNS				
	R 1-1	R 5-3	D11-1	M6-3	M4-6	R 1-1				
	STOP	NO MOTOR VEHICLES	BIKE ROUTE	ARROW	END	STOP				
	18"X18"	24"X24"	24"X18"	12"X9"	12"X6"	36"X36"				
	72000100						72400100	72400600	72400710	72800100
	SQ FT						EACH	EACH	SQ FT	
WALMART WEST										
STA. 10+50.0, 8.0' RT			3.00		0.50					13.0
STA. 10+78.0, 8.0' RT	2.25	4.00								13.0
STA. 10+85.0, 1.0' LT							1			
STA. 10+87.6, 12.8' LT						9.00				15.0
STA. 11+19.0, 2.0' RT							1			
STA. 11+22.3, 7.4' LT						9.00				15.0
STA. 11+86.0, 8.0' LT	2.25	4.00								13.0
STA. 12+07.0, 8.0' RT			3.00	0.75						13.3
WALMART EAST										
STA. 17+90.0, 8.0' RT			3.00	0.75						13.3
STA. 18+22.0, 8.0' LT	2.25	4.00								13.0
STA. 19+34.0, 8.0' LT	2.25	4.00								13.0
STA. 20+00.0, 8.0' RT			3.00	0.75						13.3
HOLLYBROOK DRIVE										
STA. 42+50.0, 8.0' RT			3.00	0.75						13.3
STA. 42+75.0, 8.2' RT								1		
STA. 43+07.5, 8.0' RT	2.25	4.00								13.0
STA. 43+74.0, 8.0' LT	2.25	4.00								13.0
STA. 44+30.0, 8.0' LT			3.00	0.75						13.3
HEINLEIN DRIVE										
STA. 47+00.0, 8.0' RT			3.00	0.75						13.3
STA. 47+65.9, 8.0' RT	2.25	4.00								13.0
STA. 48+37.0, 8.0' LT	2.25	4.00							2.25	17.0
STA. 48+38.0, 1.0' LT							1			
STA. 49+00.0, 8.0' LT			3.00	0.75						13.3
HICKORY STREET										
STA. 60+90.0, 8.0' RT			6.00		0.50					13.3
STA. 61+40.0, 8.0' LT	2.25	4.00								13.0
STA. 61+41.0, 2.6' LT							1			
STA. 61+86.0, 13' LT									2.25	15.0
SUBTOTAL	20.3	36.0	30.0	5.3	1.0	18.0	4	1	4.5	285.0
TOTAL	111						4	1	5.0	285

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU YD	CU YD			CU YD	CU YD	CU YD
	20200100	20300100					
STA. 10+50 TO STA. 24+64.65	136		25%	100%	102	1061	-959
STA. 24+98.29 TO STA. 35+17.06	129		25%	100%	97	1532	-1435
STA. 35+17.06 TO STA. 35+92.31	0	100	25%	70%	53	0	53
STA. 35+92.31 TO STA. 47+70.90	215		25%	100%	161	2926	-2765
STA. 48+23.90 TO STA. 61+45	189		25%	100%	142	506	-364
TOTAL	669	100			555	6025	-5470
USE	670	100					5470

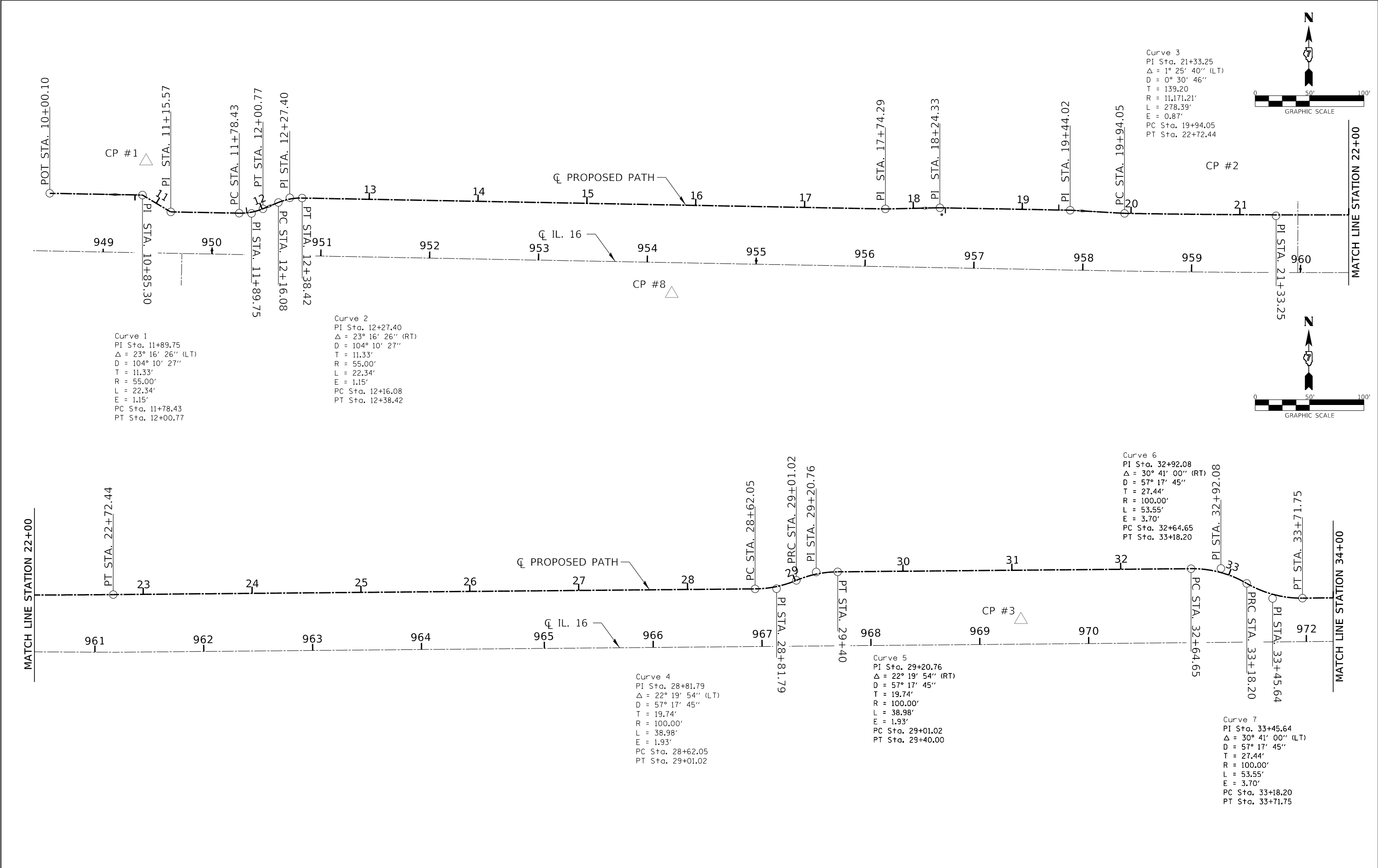
FURNISHED EXCAVATION 5470 CU YD

DRIVEWAY SCHEDULE				
LOCATION	DRIVEWAY PAVEMENT REMOVAL	AGGREGATE SURFACE COURSE, TYPE B	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"
	44000200	40200800	42300200	X4060286
	SQ YD	TON	SQ YD	SQ YD
STA. 24+80	18		18	
STA. 27+38	27	46		27
STA. 28+44	146		146	
STA. 30+40	57		57	
STA. 33+95	60		57	
STA. 49+56	133		133	
STA. 50+91	67	35	67	
STA. 51+76	100		100	
STA. 52+56	93		88	
STA. 53+39	102		98	
STA. 54+93	50		49	
STA. 56+60				
STA. 56+94	80		80	
STA. 57+38	2			
STA. 57+75	2			
STA. 58+12	2			
STA. 58+50	2			
STA. 58+99	2			
STA. 59+27	2			
STA. 60+22	7		5	
STA. 60+59	2			
STA. 61+00		6		
TOTAL	954	87	898	27

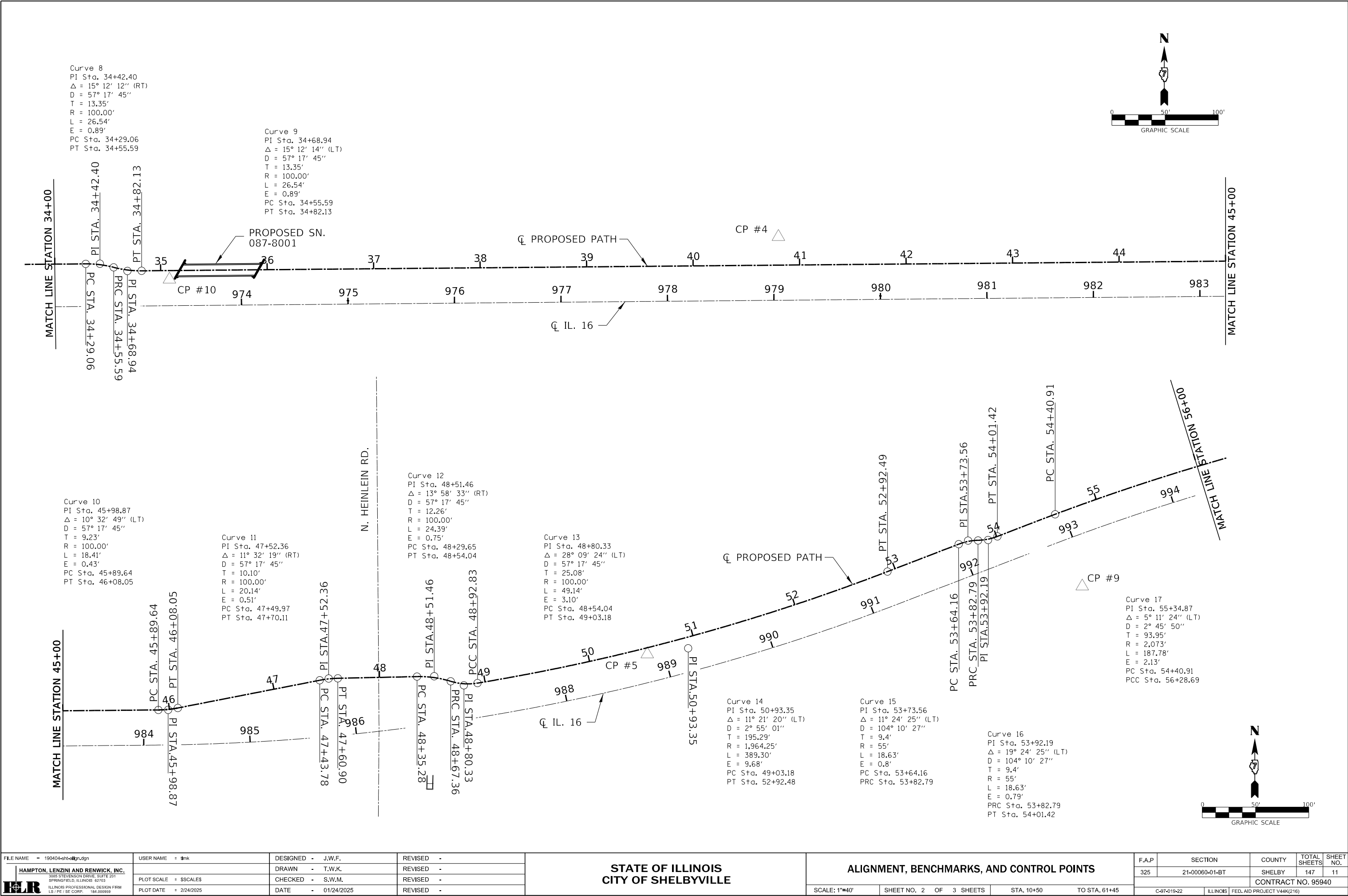
WATER UTILITY SCHEDULE					
LOCATION			FIRE HYDRANTS TO BE MOVED	DOMESTIC METER VAULTS TO BE ADJUSTED	VALVE BOXES TO BE ADJUSTED
			56400100	56500300	60266600
STATION	OFFSET	RT/CL/LT	EACH	EACH	EACH
19+80	12.5	RT	1		
54+50	8.0	LT	1		
61+10	8.0	LT	1		
59+51	-	RT		1	
60+10	-	CL		1	
19+69	-	RT			1
19+72	-	RT			1
19+76	-	RT			1
19+77	-	RT			1
		TOTAL	3	2	4



FILE NAME = 190404-shit-typsections.dgn	USER NAME = tlmk	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	TYPICAL CROSS SECTIONS		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -				325	21-00060-01-BT	SHELBY	147	9
PLOT DATE = 2/24/2025	DATE = 10/15/20	CHECKED - S.W.M.	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 95940		
		DATE = 10/15/20	REVISED -						C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)



FILE NAME = 190404-shelby.dgn		USER NAME = tlmk	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	ALIGNMENT, BENCHMARKS, AND CONTROL POINTS						F.A.P	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 PLR		PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -		325	21-00060-01-BT	SHELBY	147	10						
		PLOT DATE = 2/24/2025	CHECKED - S.W.M.	REVISED -		CONTRACT NO. 95940										
		DATE - 01/24/2025	REVISED -	C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)												
SCALE: 1"=40'		SHEET NO. 1 OF 3 SHEETS		STA. 10+50 TO STA. 61+45												

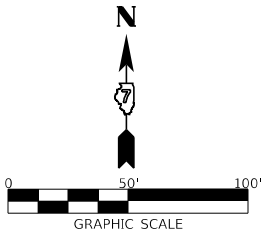


FILE NAME = 190404-shelby.dgn HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = dlmk	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	ALIGNMENT, BENCHMARKS, AND CONTROL POINTS		F.A.P	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - T.W.K.	REVISED -				325	21-00060-01-BT	SHELBY	147	11
		CHECKED - S.W.M.	REVISED -				CONTRACT NO. 95940				
		DATE - 01/24/2025	REVISED -				SCALE: 1"=40'	SHEET NO. 2 OF 3 SHEETS	STA. 10+50	TO STA. 61+45	
		PLOT DATE = 2/24/2025					C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)				

Curve 18
PI Sta. 56+38.14
Δ = 19° 30' 25" (LT)
D = 104° 10' 27"
T = 9.45'
R = 55'
L = 18.73'
E = 0.80'
PRC Sta. 56+28.69
PRC Sta. 56+47.42

Curve 19
PI Sta. 56+56.95
Δ = 19° 39' 43" (LT)
D = 104° 10' 27"
T = 9.53'
R = 55'
L = 18.79'
E = 0.82'
PRC Sta. 56+47.42
PCC Sta. 56+65.50

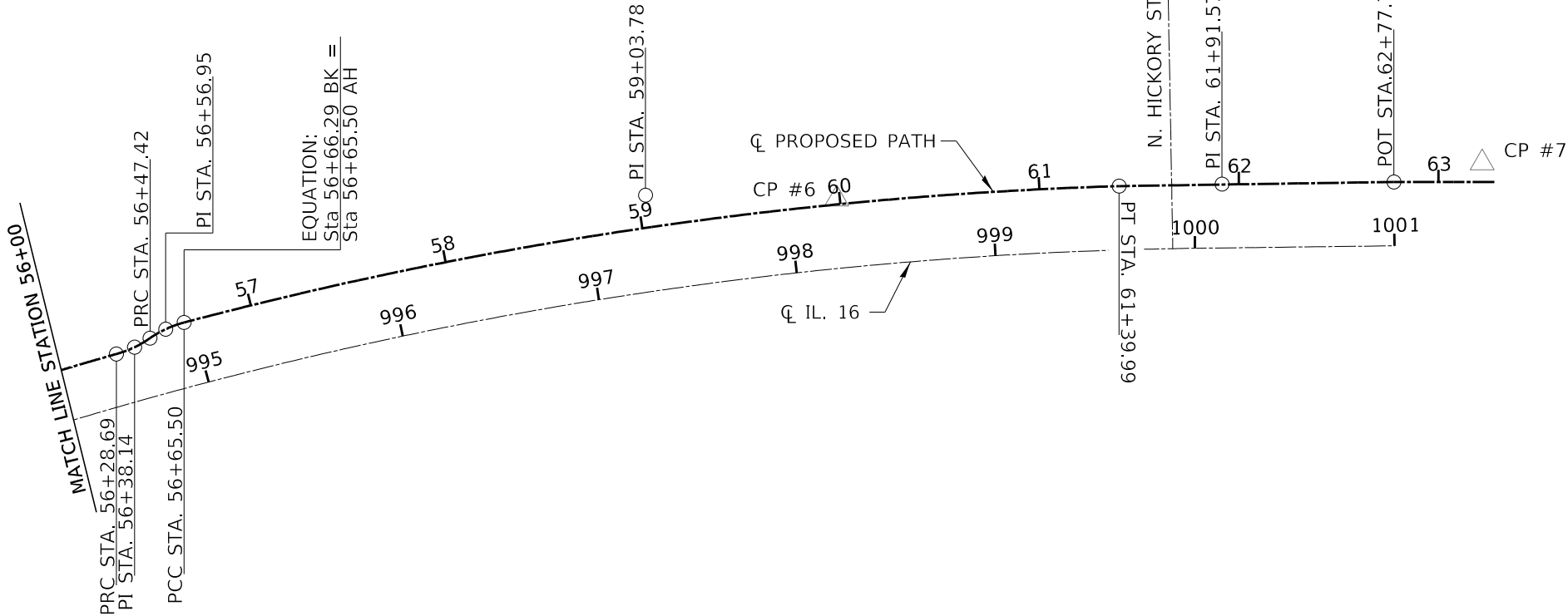
Curve 20
PI Sta. 59+03.78
Δ = 13° 04' 30" (RT)
D = 2° 45' 20"
T = 238.28'
R = 2,079.26'
L = 474.49'
E = 13.61'
PCC Sta. 56+65.50
PT Sta. 61+39.99



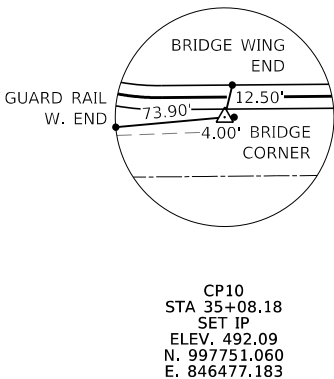
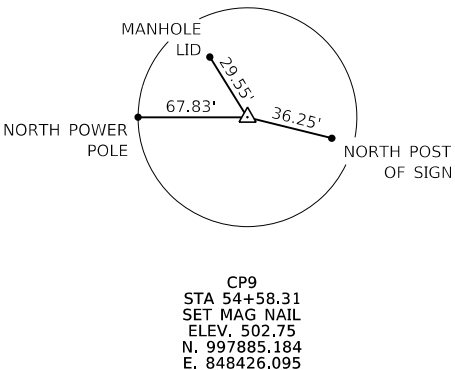
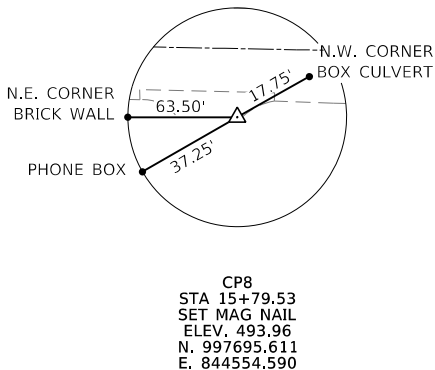
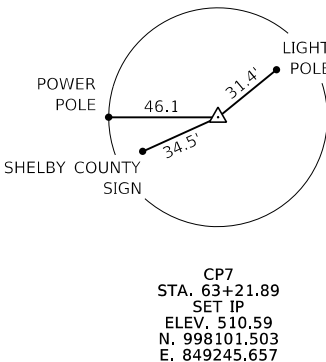
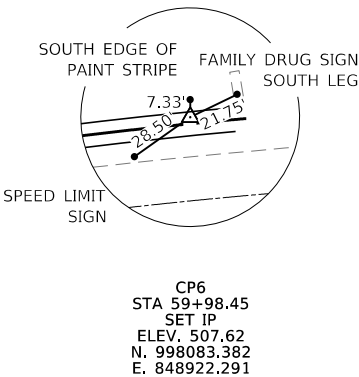
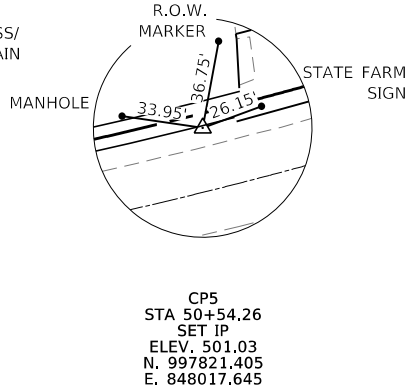
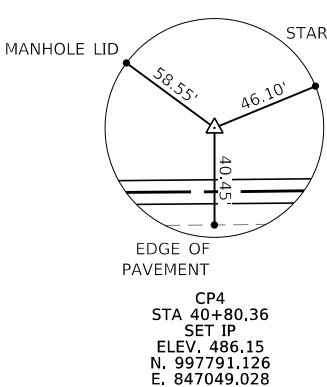
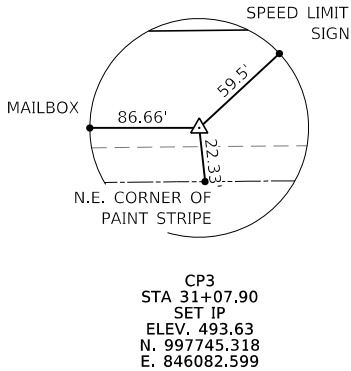
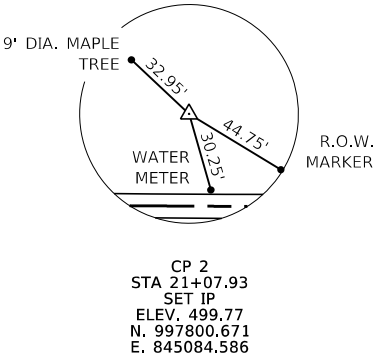
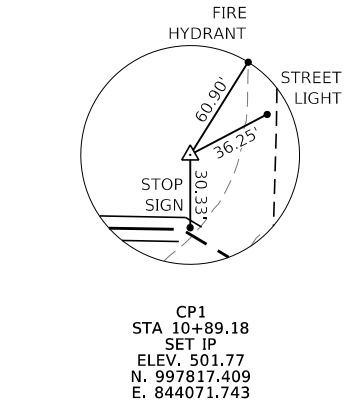
BENCHMARKS

BM#16- SET IN POWER POLE
N. 997796.820
E. 843836.438
ELEV. = 608.02

BM#17- SET IN LAST WOODEN POST OF GUARDRAIL
STA. 33+75.13
62.70' LT
N. 997702.548
E. 846344.616
ELEV. = 600.01



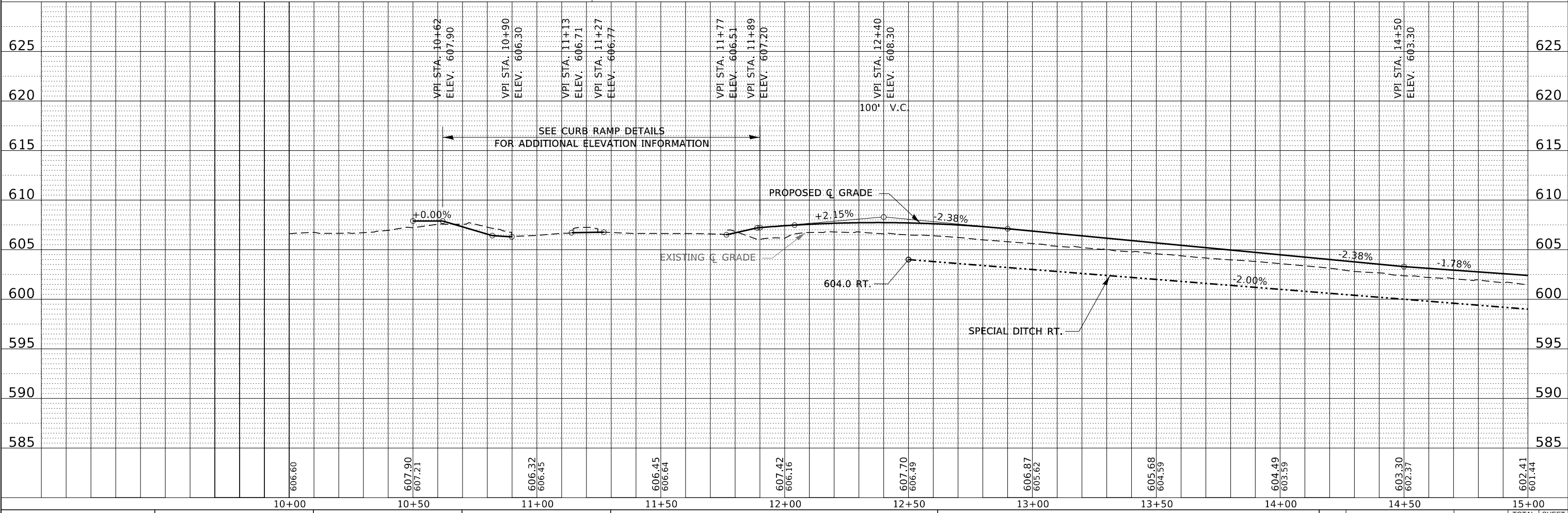
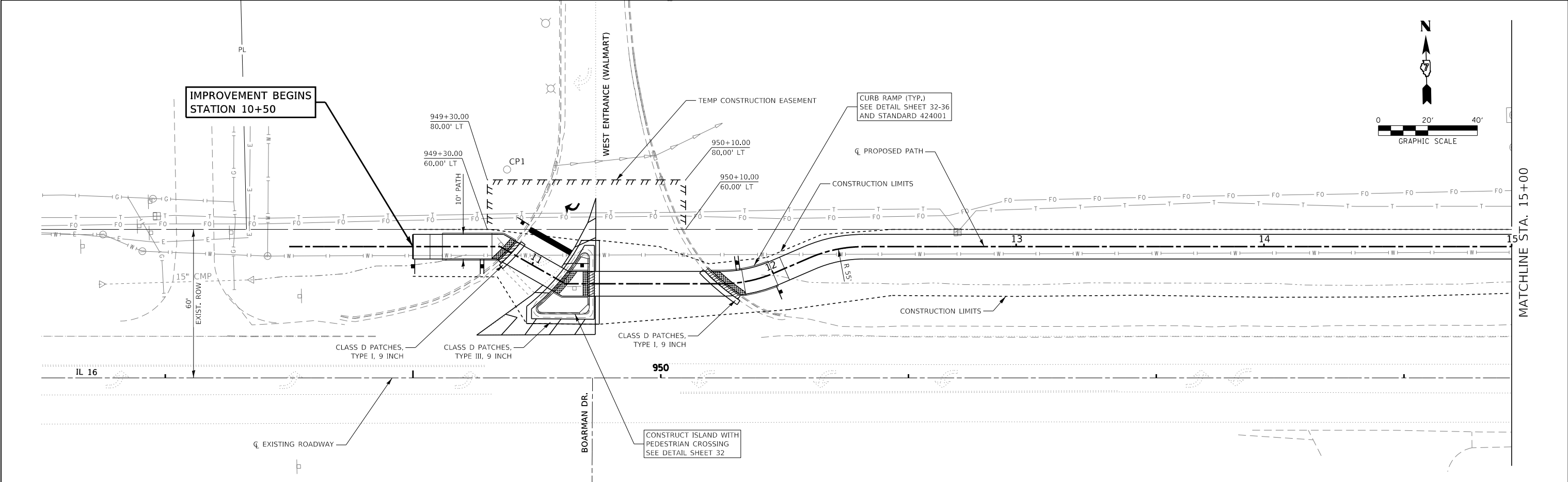
CONTROL POINTS



POINTS TABLE			
POINT	STATION	NORTHING	EASTING
POT	10+00.10	997787.894	843983.223
PI	10+85.30	997786.301	844068.404
PI	11+15.57	997770.812	844094.418
PC	11+78.43	997769.637	844157.262
PI	11+89.75	997769.426	844168.587
PT	12+00.77	997773.706	844179.074
PC	12+16.08	997779.490	844193.246
PI	12+27.40	997783.771	844203.733
PT	12+38.42	997783.559	844215.058
PI	17+74.29	997773.540	844750.835
PI	18+24.33	997774.605	844800.863
PI	19+44.02	997772.367	844920.533
PC	19+94.05	997769.473	844970.484
PI	21+33.25	997767.245	845109.665
PT	22+72.44	997768.485	844970.484
PC	28+62.05	997773.740	845838.447
PI	28+81.79	997773.915	845858.184
PRC	29+01.02	997781.578	845838.447
PI	29+20.76	997789.240	845894.566
PT	29+40.00	997789.416	845876.375
PC	32+64.65	997792.309	846238.939
PI	32+92.08	997792.554	846266.373
PRC	33+18.20	997778.765	846290.092
PI	33+45.64	997764.975	846313.810
PT	33+71.75	997765.220	846290.092
PC	34+29.06	997765.731	846398.547
PI	34+42.40	997765.850	846411.892
PRC	34+55.59	997762.465	846424.802
PI	34+68.94	997759.079	846437.712
PT	34+82.13	997759.198	846424.802
PC	45+89.64	997769.068	847558.526
PI	45+98.87	997769.150	847567.756
PT	46+08.05	997770.920	847576.815
PC	47+43.78	997796.953	847710.027
PI	47+52.36	997798.598	847718.447
PT	47+60.90	997798.786	847727.025
PC	48+35.28	997800.408	847801.384
PI	48+51.46	997800.761	847817.563
PRC	48+67.36	997795.993	847833.028
PI	48+80.33	997792.173	847845.417
PCC	48+92.83	997794.289	847858.208
PI	50+93.35	997827.010	848056.044
PT	52+92.49	997899.033	848243.188
PC	53+64.16	997924.774	848310.071
PI	53+73.56	997928.152	848318.848
PRC	52+82.79	997928.421	848328.249
PI	53+92.19	997928.691	848337.650
PT	54+01.42	997332.069	848346.427
PC	54+40.91	997946.254	848383.286
PI	55+34.87	997980.000	848470.971
PRC	56+28.69	998005.675	848561.348
PI	56+38.14	998008.203	848570.458
PRC	56+47.42	998013.627	848578.201
PI	56+56.95	998019.026	848586.055
PCC	56+65.50	998021.468	848596.270
PI	59+03.78	998082.502	848825.560
PT	61+39.99	998089.846	849063.766
PI	61+91.57	998090.840	849115.344
POT	62+77.71	998091.917	849201.471

PLAN	SURVEYED PLOTTED ALIGNMENT CHECKED NOTES CADD FILE NAME	BY	DATE

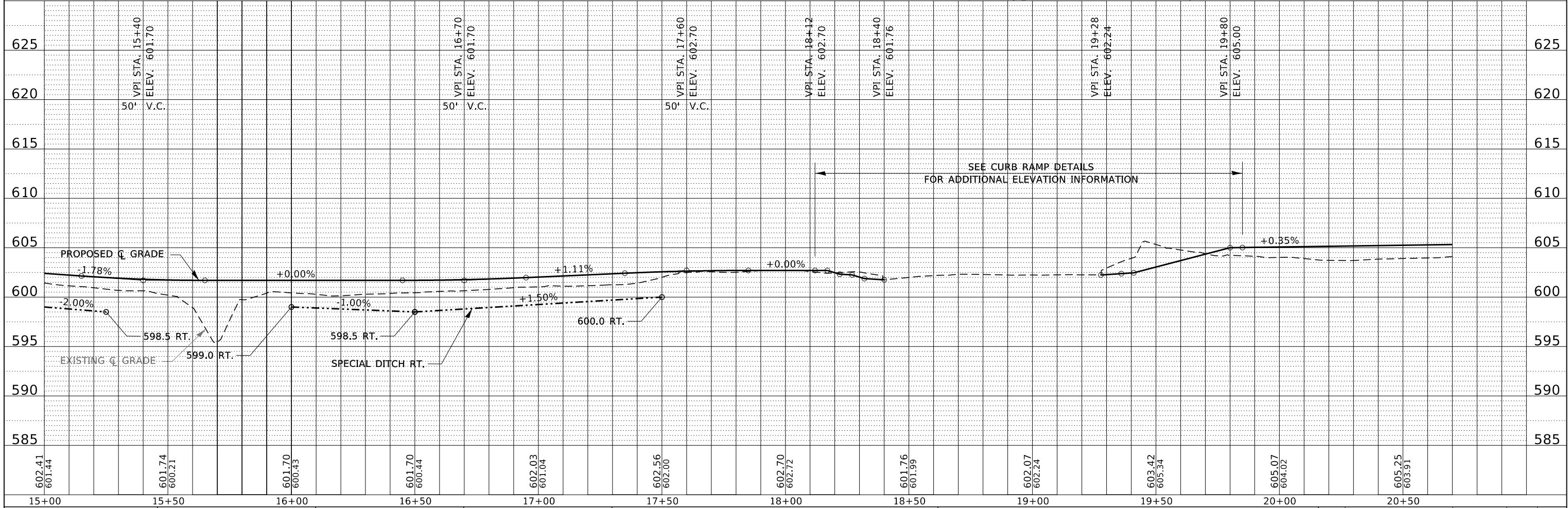
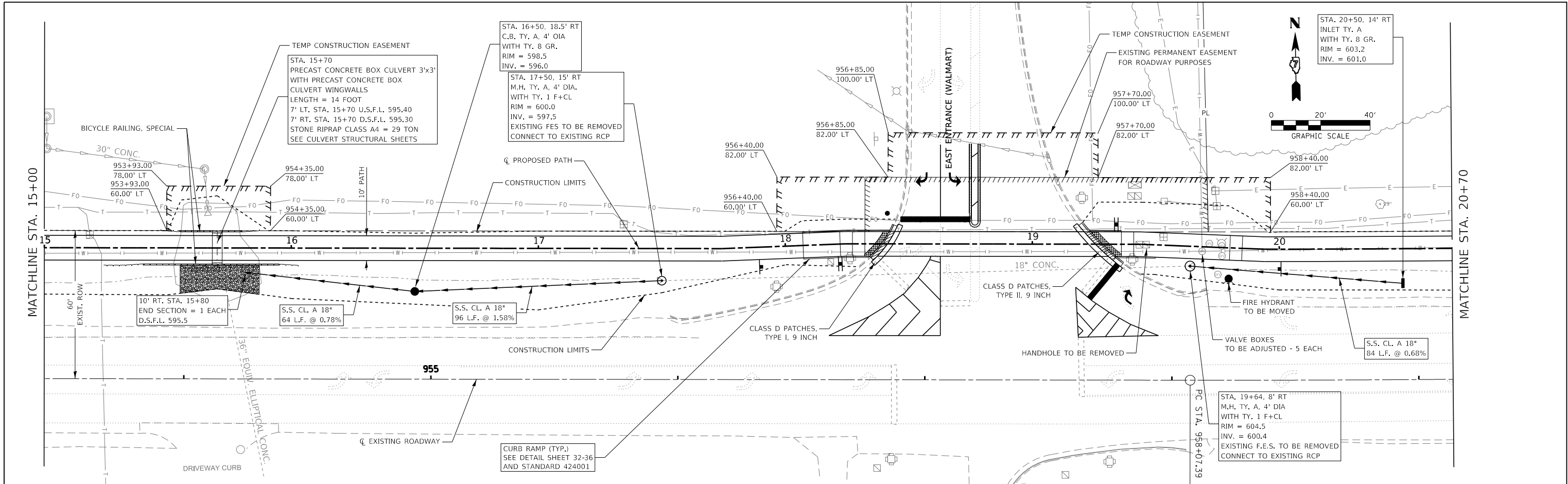
PROFILE	SURVEYED PLOTTED GRADES CHECKED NOTES STRUCTURE NOTATIONS CHKD	BY	DATE



FILE NAME = 190404-shl-P10Prf.dgn	USER NAME = tlmk	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	PLAN & PROFILE PHASE 10 BIKE PATH		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - M.M.P.	REVISED -		SCALE: 20H:5V		325	21-00060-01-BT	SHELBY	147	13
	PLOT DATE = 2/24/2025	CHECKED - S.W.M.	REVISED -		SHEET NO. 1 OF 10 SHEETS		CONTRACT NO. 95940				
		DATE = 01/24/2025	REVISED -		STA. TO STA.		C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)		

PLAN	SURVEYED	BY	DATE
NOTED	PLOTTED		
NO.	NO.		

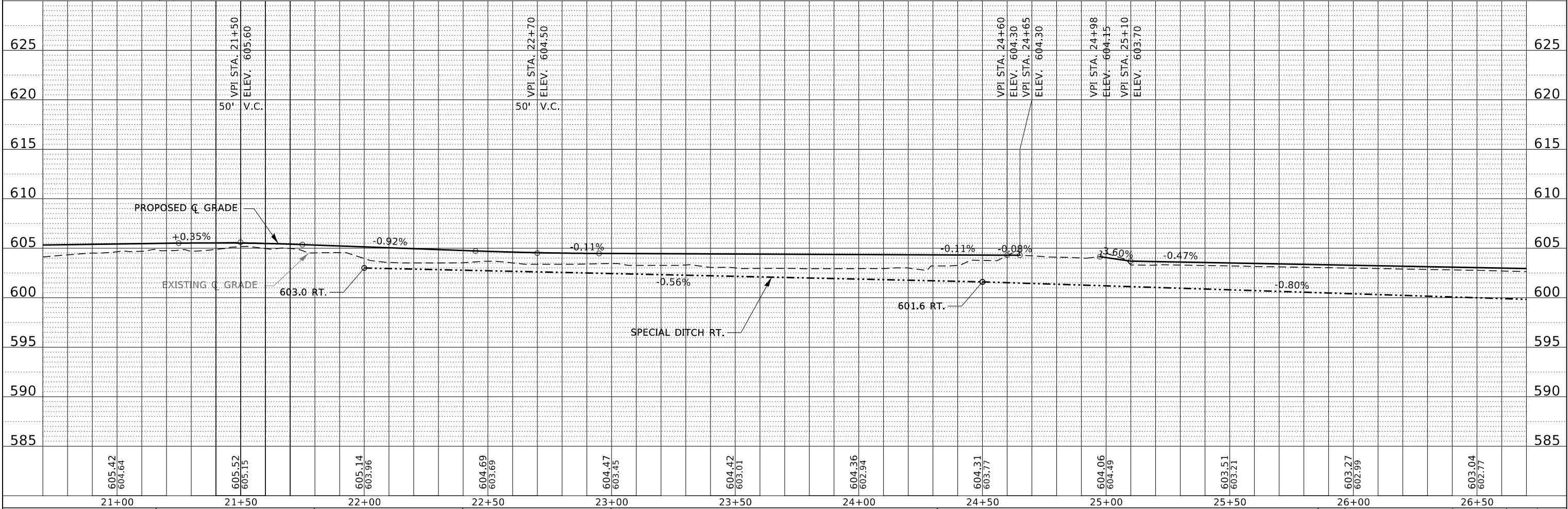
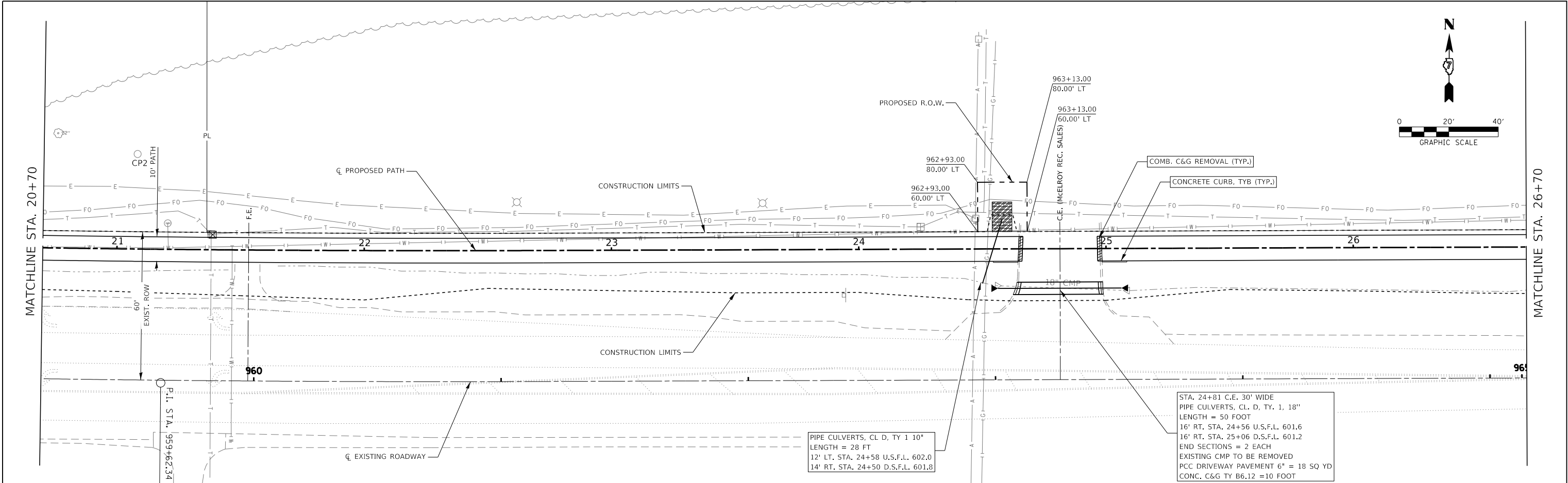
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NO.	NO.		



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	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		DRAWN - M.M.P.	REVISED -		F.A.P.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = \$SCALE\$		CHECKED - S.W.M.	REVISED -		325	21-00060-01-BT		SHELBY	147	14		
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					SCALE: 20H:5V	SHEET NO. 2 OF 10 SHEETS		STA. TO STA.			C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)		

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
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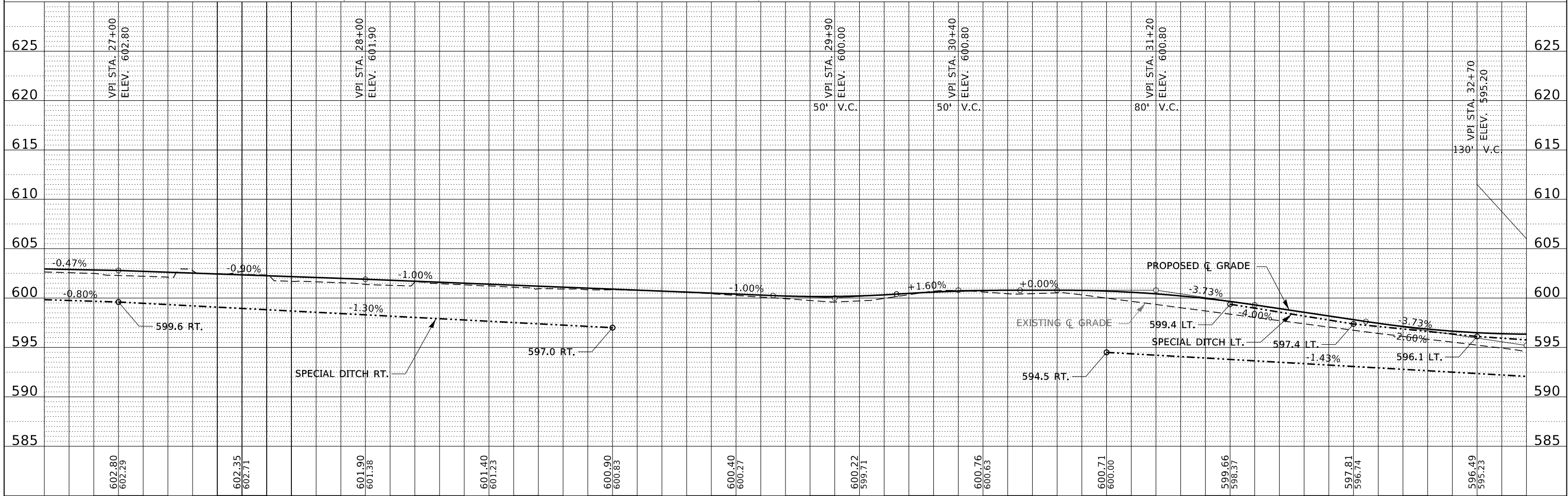
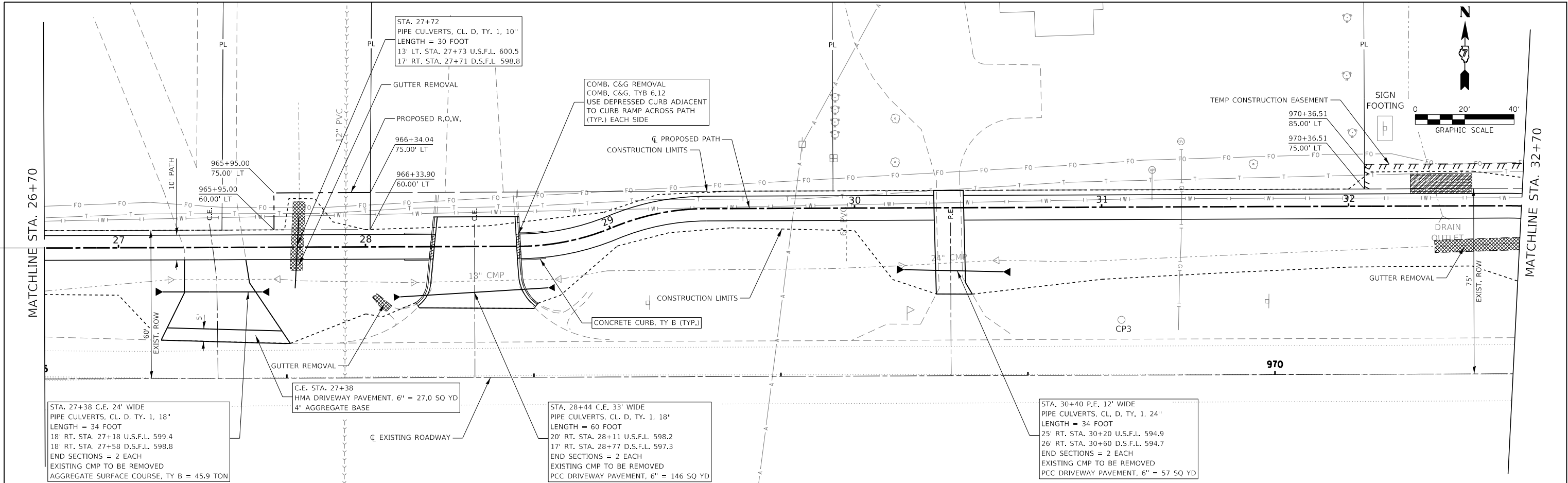
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NOTE BOOK	PLOTTED		
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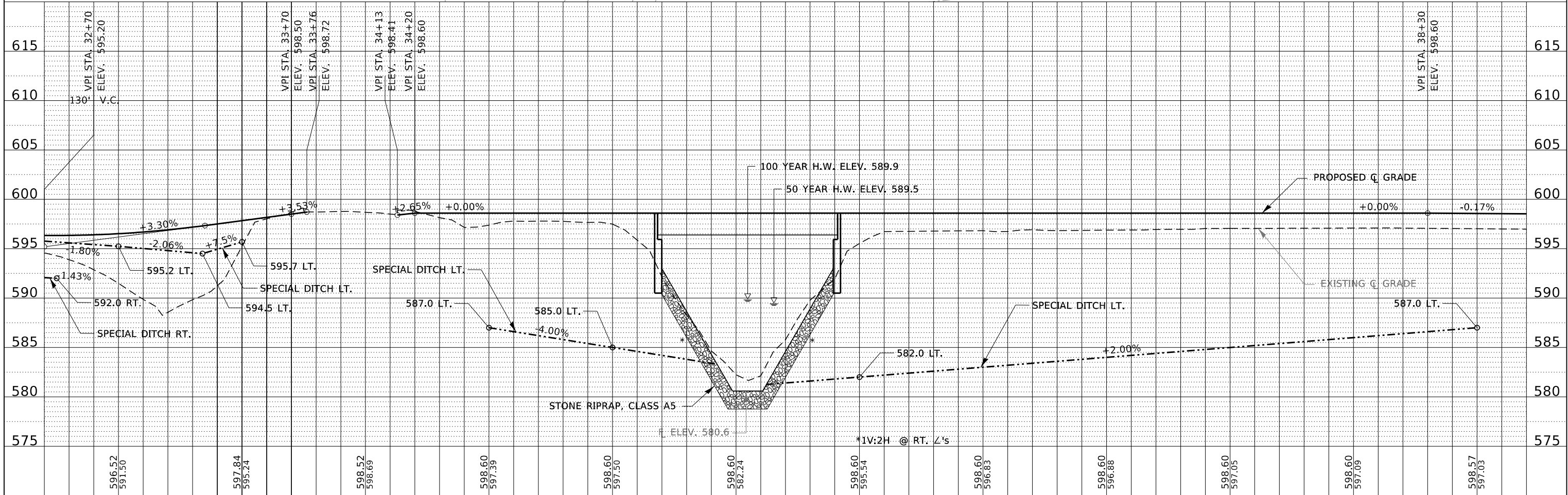
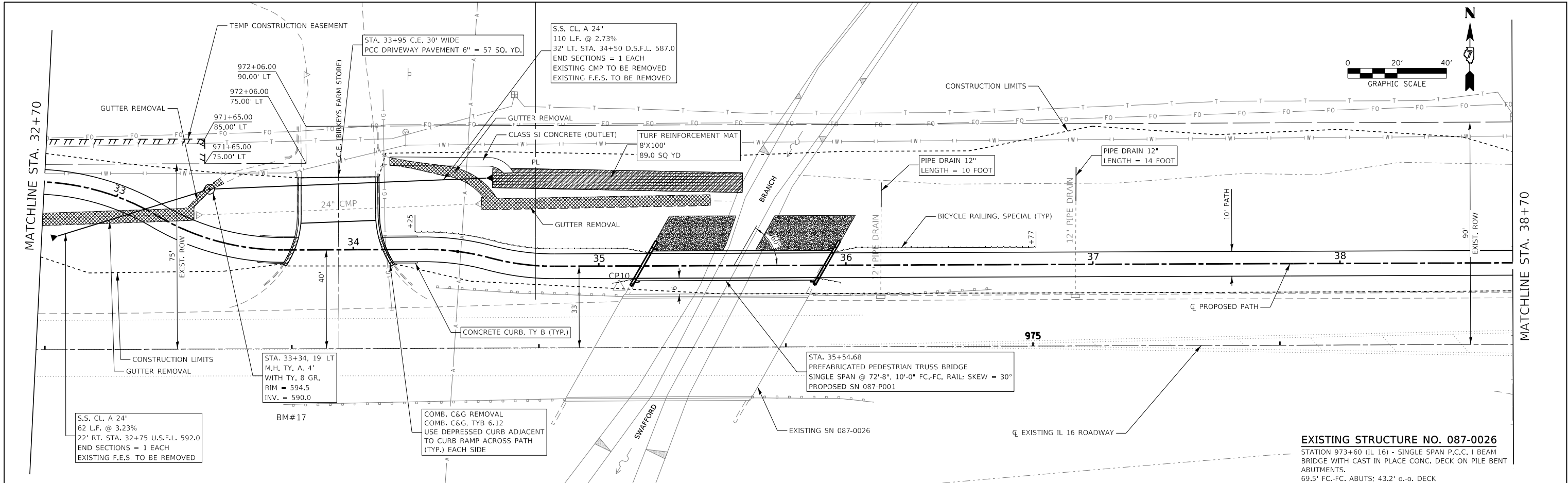
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NOTE BOOK	PLOTTED		
NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		



27+00		27+50		28+00		28+50		29+00		29+50		30+00		30+50		31+00		31+50		32+00		32+50					
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 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		DRAWN - M.M.P.		REVISED -		325	21-00060-01-BT											SHELBY	147	16							
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PLAN	NO.	NOTE BOOK	SURVEYED	BY	DATE

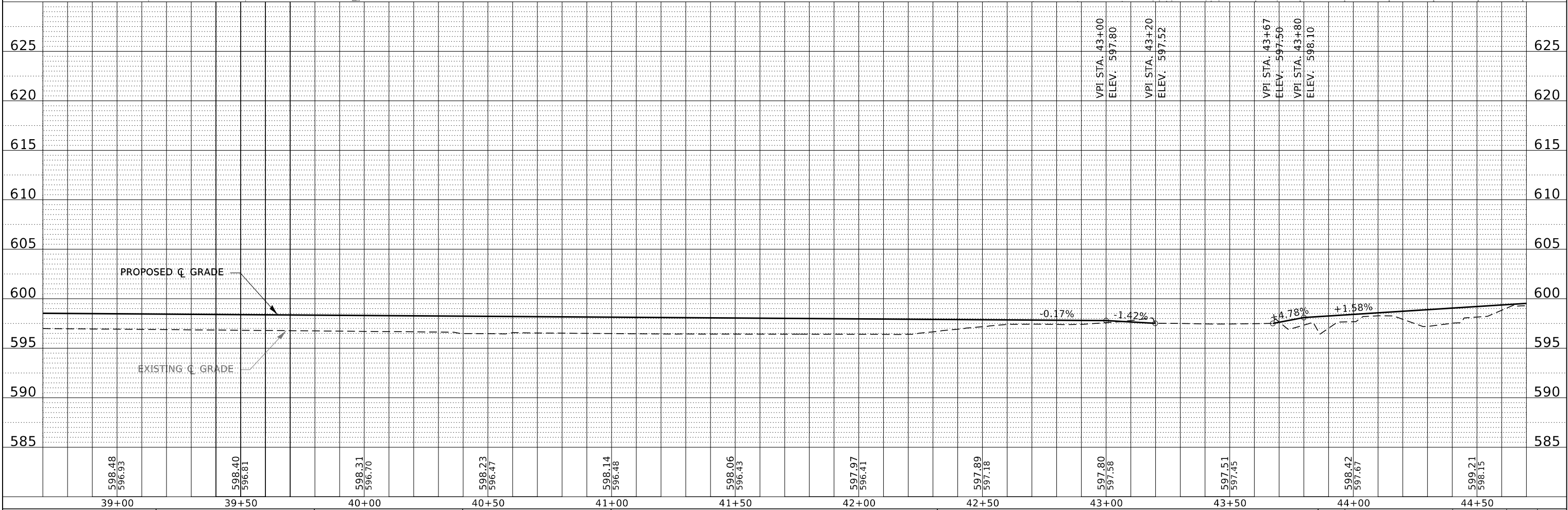
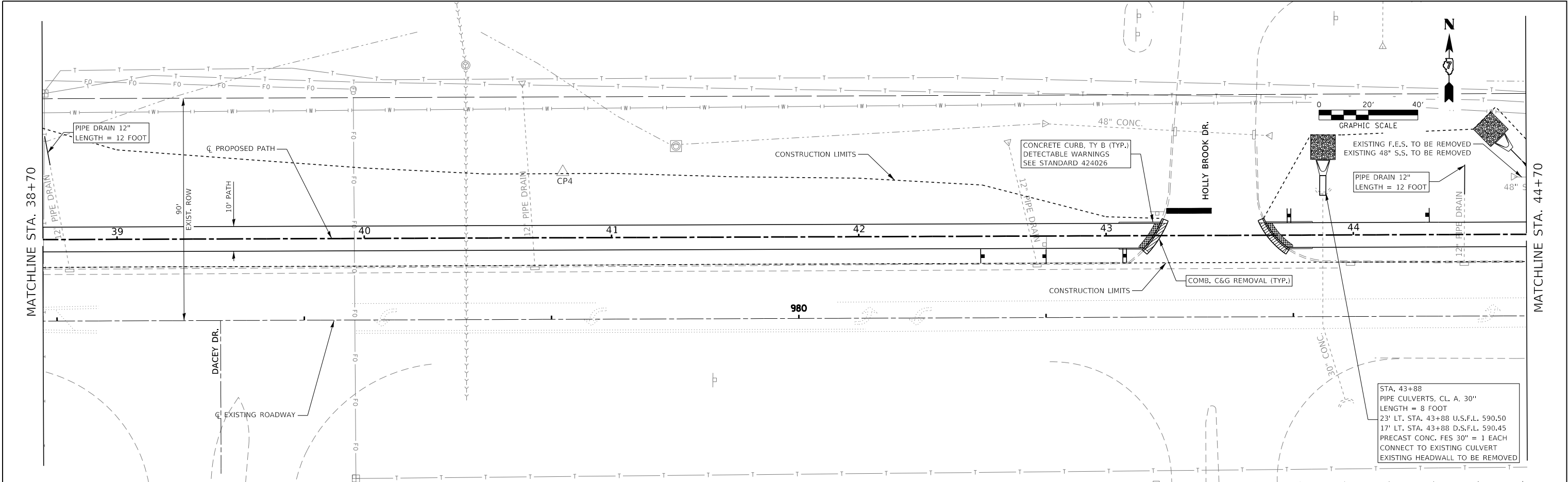
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HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - M.M.P.	REVISED -				325	21-00060-01-BT	SHELBY	147	17
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PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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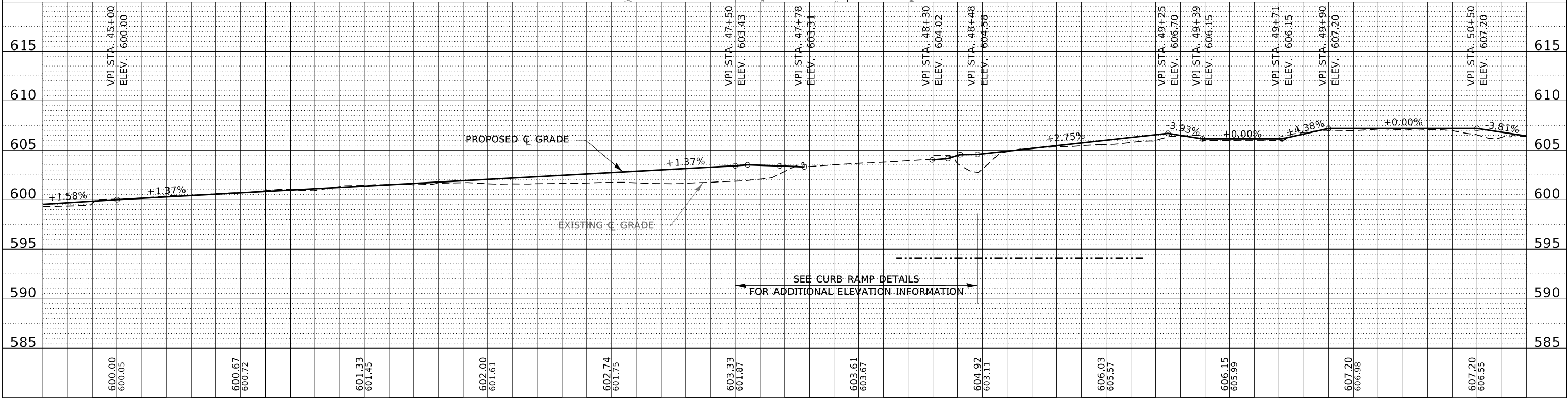
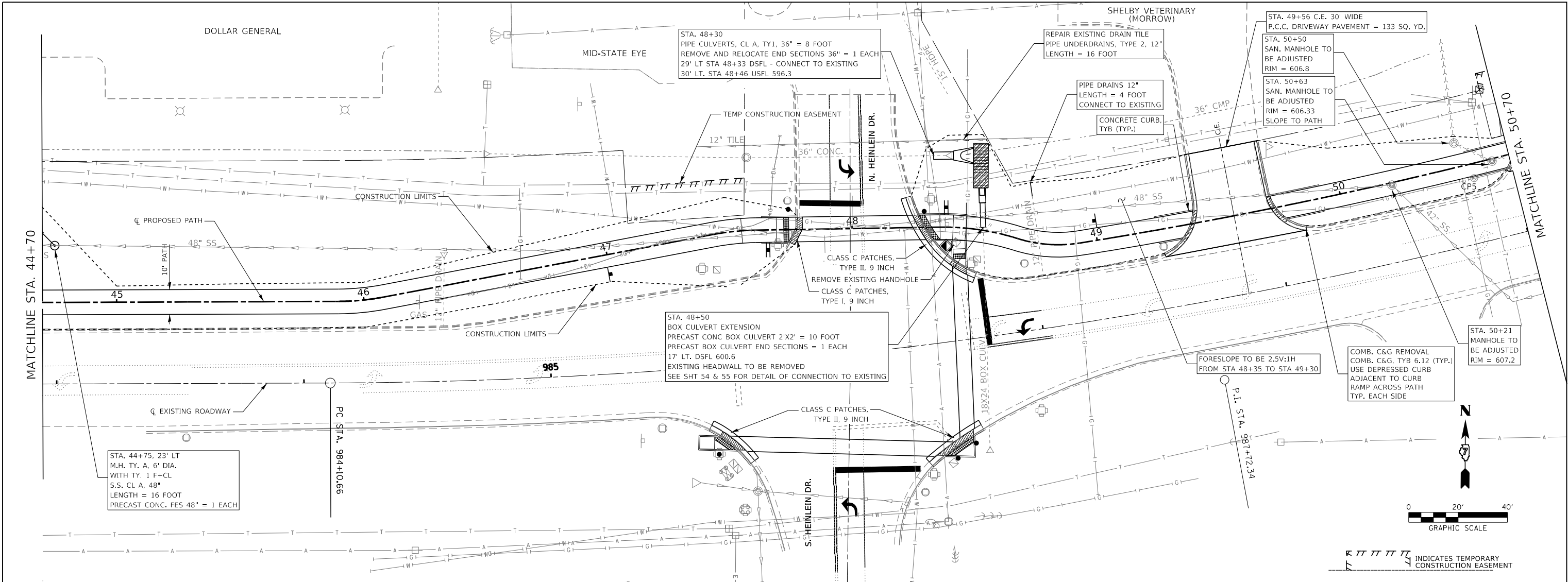
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - M.M.P.	REVISED -			325	21-00060-01-BT	SHELBY	147	18
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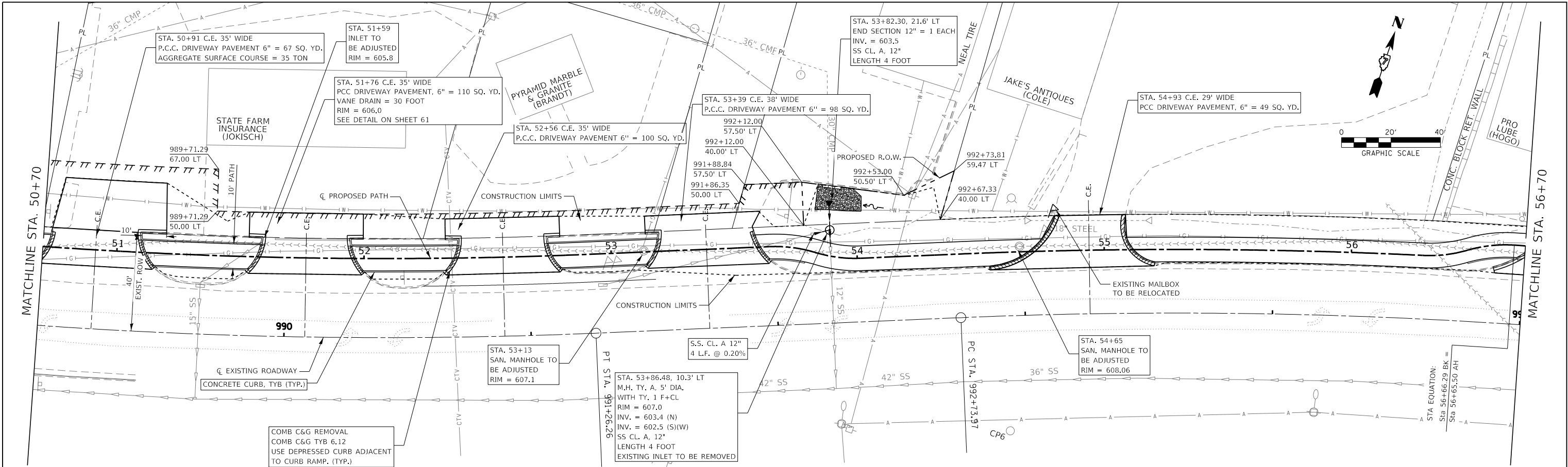
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NOTE BOOK	PLOTTED		
NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		

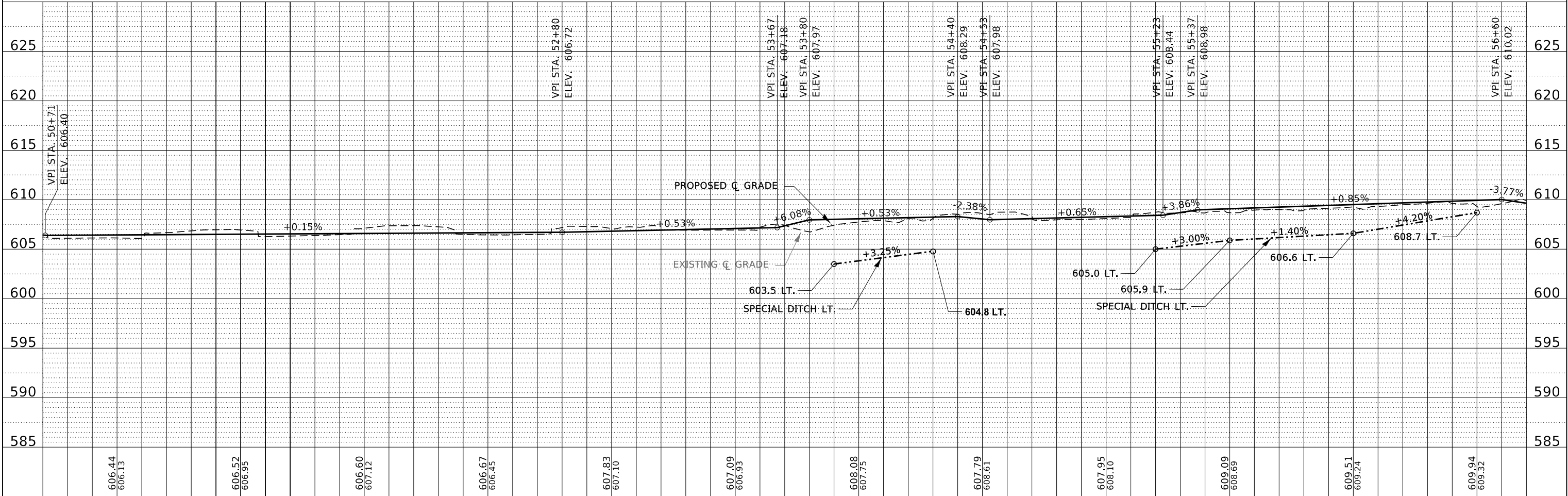


45+00		45+50		46+00		46+50		47+00		47+50		48+00		48+50		49+00		49+50		50+00		50+50					
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 HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959		DRAWN - M.M.P.		REVISED -		325	21-00060-01-BT											SHELBY	147	19							
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PLAN	SURVEYED PLOTTED ALIGNMENT CHECKED DATE PLOTTED CADD FILE NAME	BY	DATE
NOTE BOOK NO.			

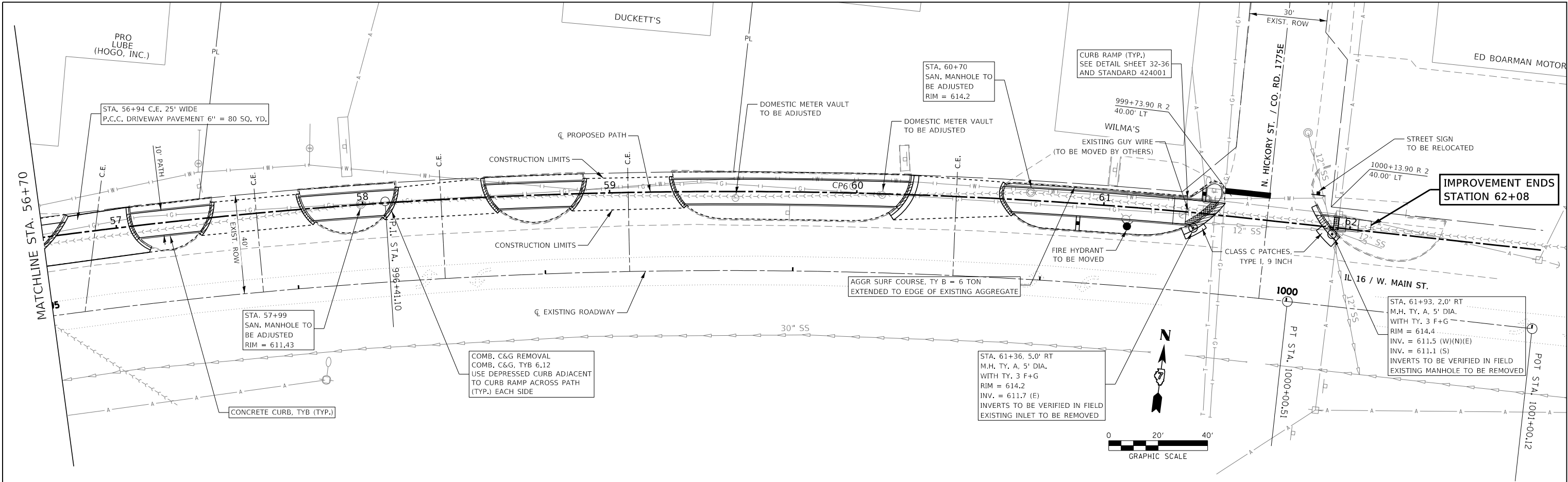


PROFILE	SURVEYED PLOTTED GRADES CHECKED DATE PLOTTED STRUCTURE NOTATIONS CHKD	BY	DATE
NOTE BOOK NO.			

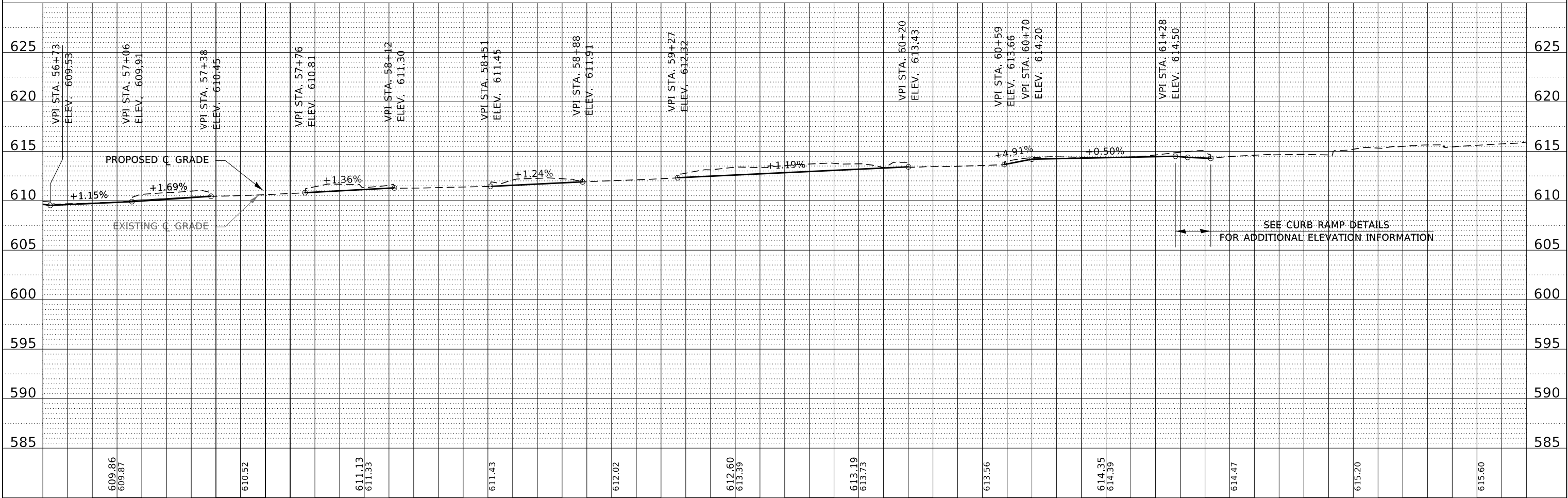


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 HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - M.M.P.		REVISED -		325	21-00060-01-BT															SHELBY	147	20			
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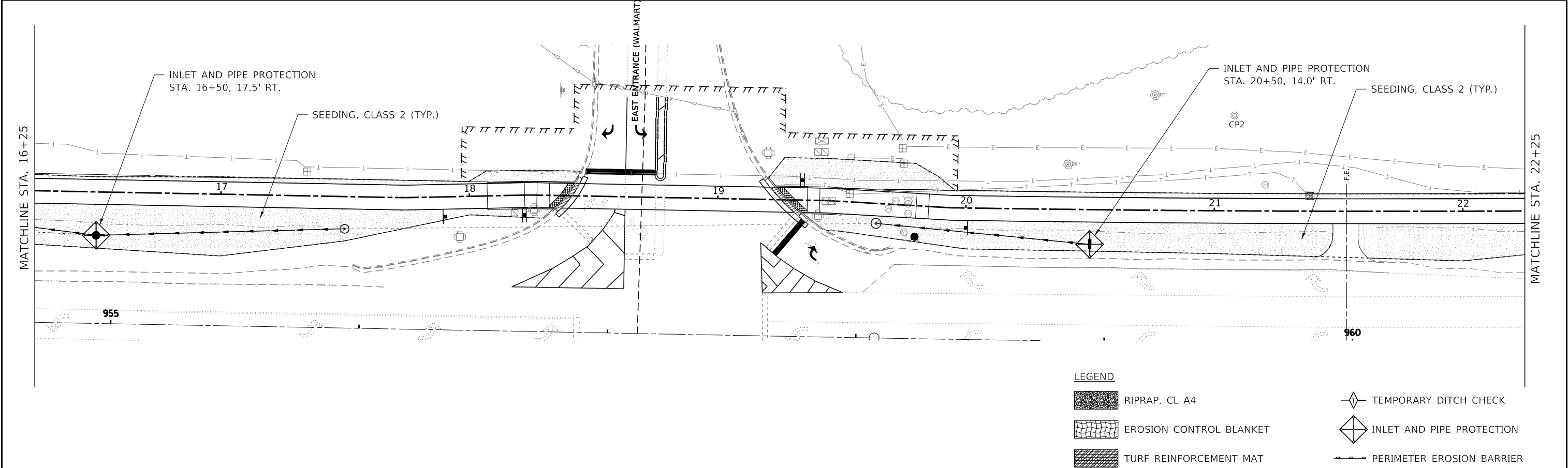
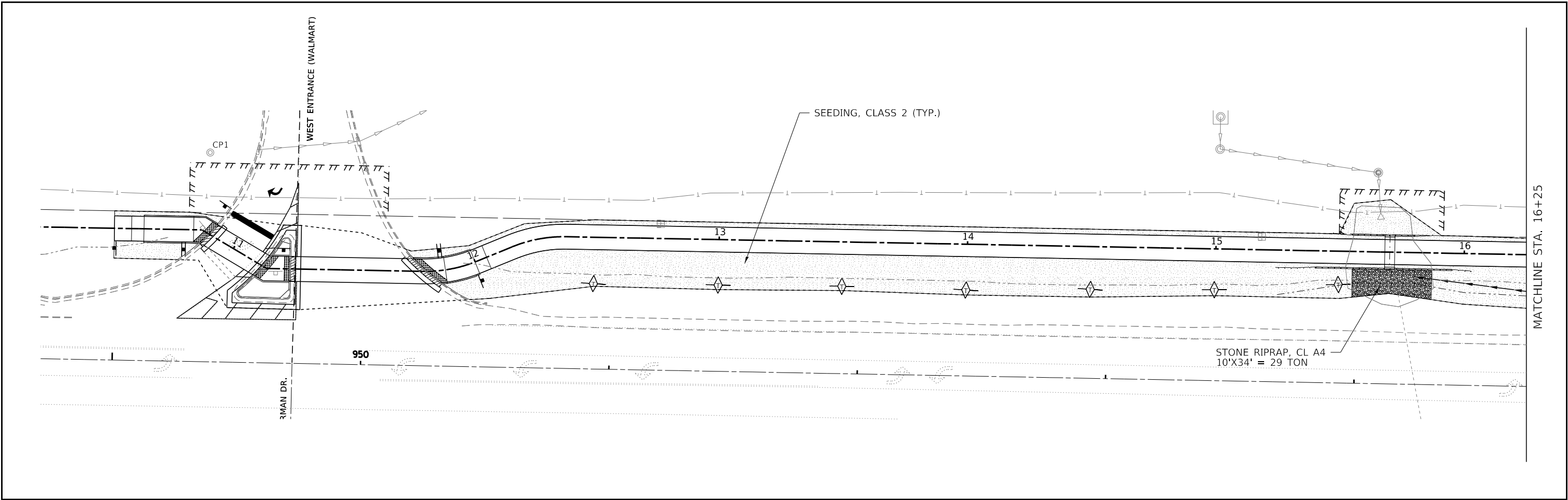
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	PLOTTED		
	ALIGNMENT CHECKED		
	NOTED		
	CADD FILE NAME		
	NO.		



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTED		
	STRUCTURE NOTATIONS CHKD		
	NO.		



57+00		57+50		58+00		58+50		59+00		59+50		60+00		60+50		61+00		61+50		62+00		62+50											
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 HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - M.M.P.		REVISED -		325	21-00060-01-BT															SHELBY	147	21									
		PLOT SCALE = \$SCALES		CHECKED - S.W.M.		REVISED -																CONTRACT NO. 95940											
		PLOT DATE = 2/24/2025		DATE - 01/24/2025		REVISED -																SCALE: 20H:5V		SHEET NO. 9 OF 10 SHEETS		STA. TO STA.		C-97-019-22		ILLINOIS	FED. AID PROJECT V44K(216)		



LEGEND

RIPRAP, CL A4

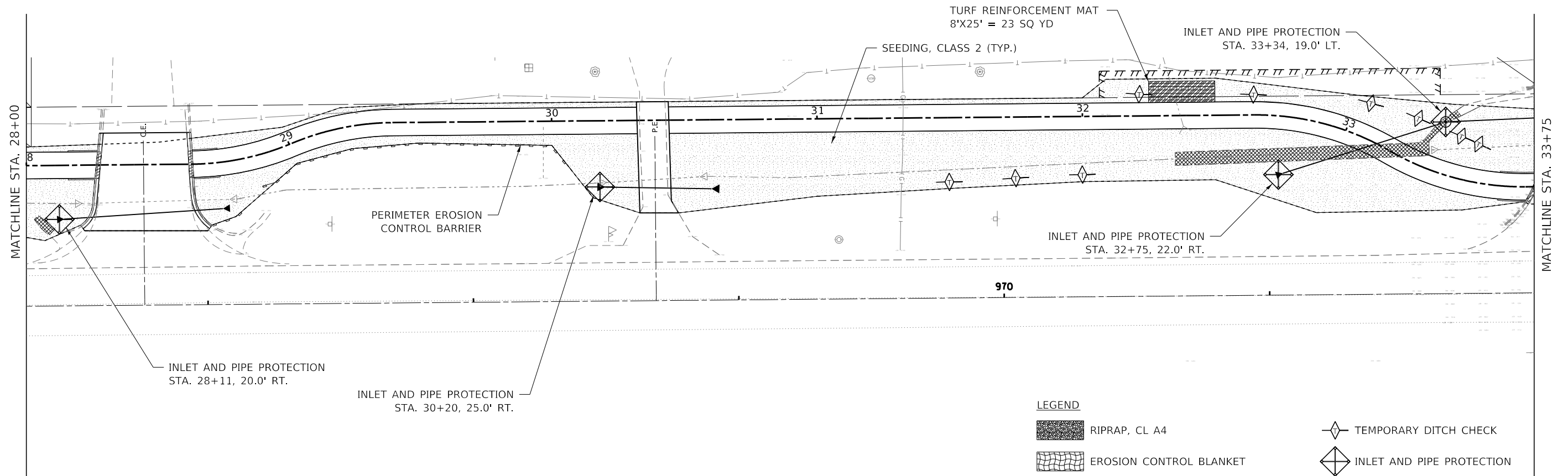
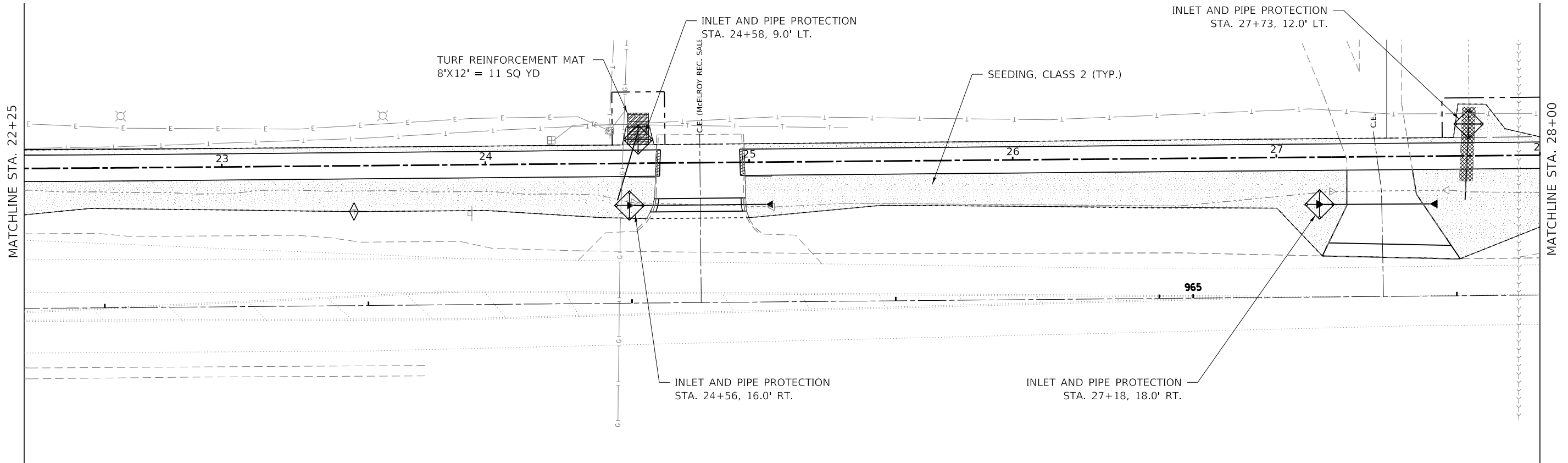
EROSION CONTROL BLANKET

TURF REINFORCEMENT MAT

TEMPORARY DITCH CHECK

INLET AND PIPE PROTECTION

PERIMETER EROSION BARRIER



LEGEND

-  RIPRAP, CL A4
-  EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT

-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER

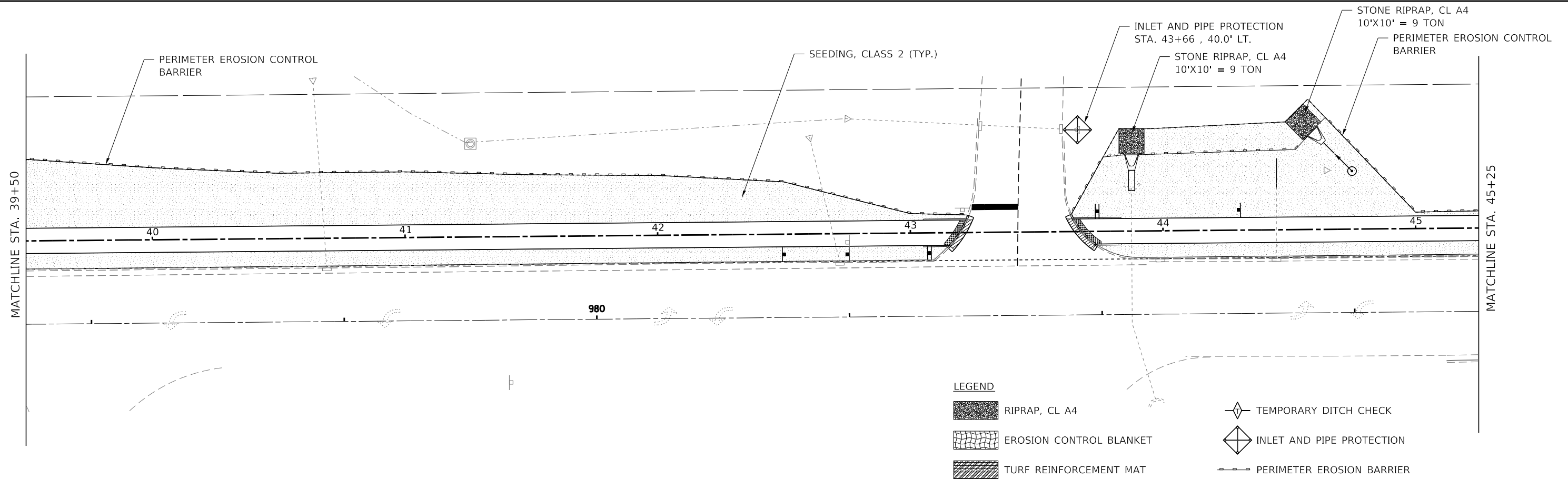
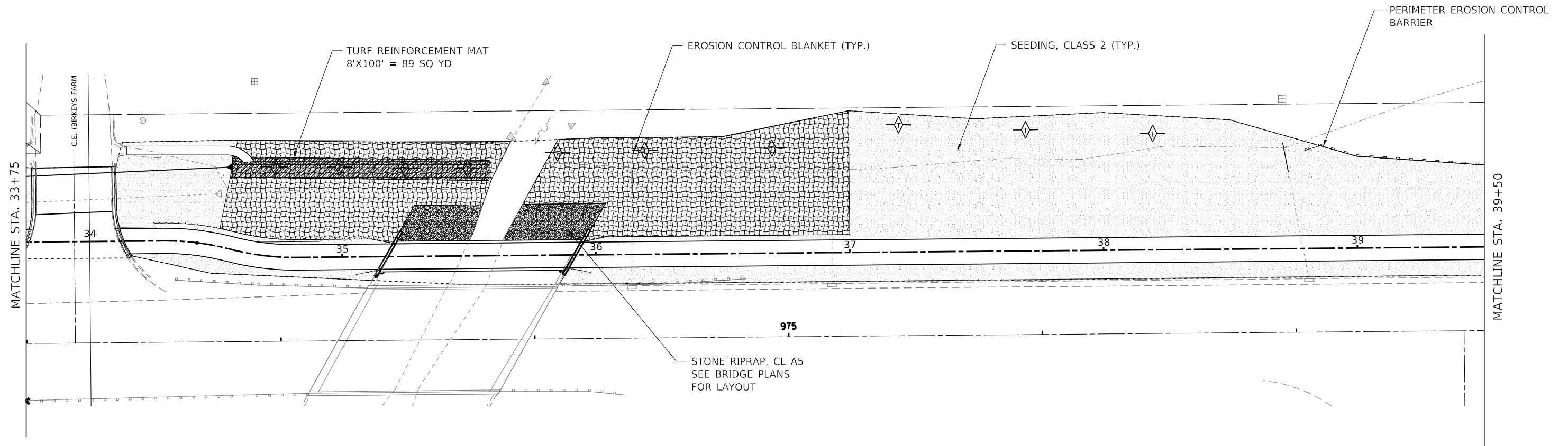
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		CHECKED - X.X.X	REVISED -

**STATE OF ILLINOIS
CITY OF SHELBYVILLE**

**EROSION AND SEDIMENT CONTROL PLAN
PHASE 10 BIKE PATH**

SHEET NO. 2 OF 5 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
725	21-00060-01-BT	SHELBY	147	23
CONTRACT NO. 95940				
C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)		



LEGEND

 RIPRAP, CL A4

 EROSION CONTROL BLANKET

 TURF REINFORCEMENT MAT

 TEMPORARY DITCH CHECK

 INLET AND PIPE PROTECTION

 PERIMETER EROSION BARRIER

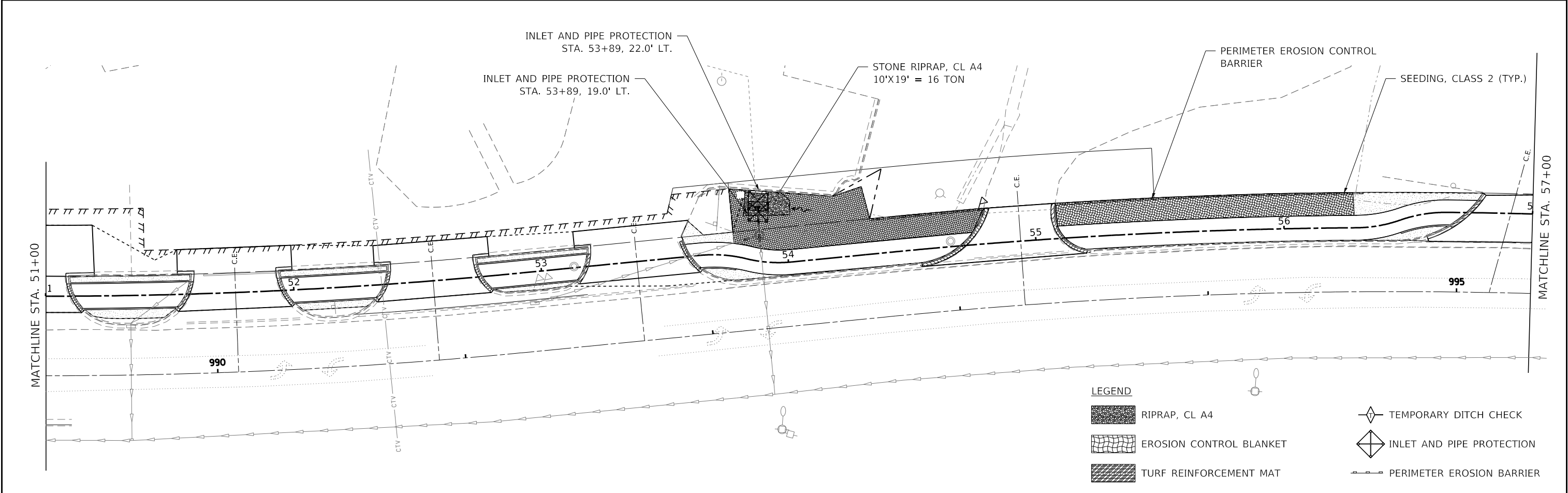
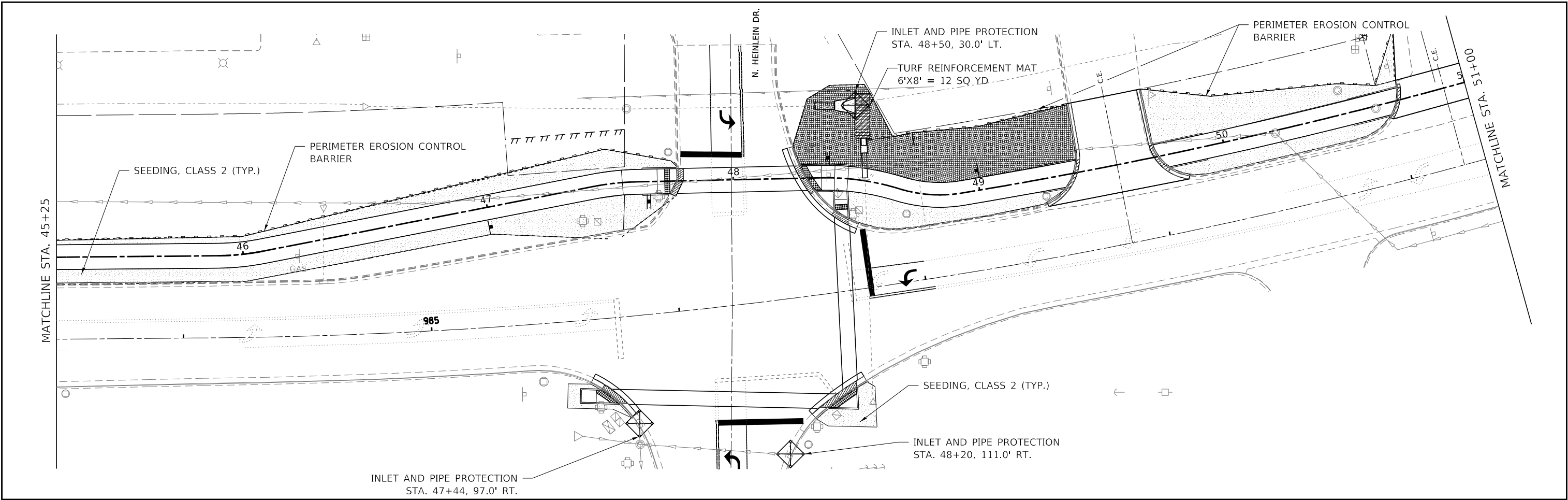
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	PLOT DATE = 2/24/2025	DRAWN - D.M.F.	REVISED -
		CHECKED - X.X.X	REVISED -

STATE OF ILLINOIS
CITY OF SHELBYVILLE

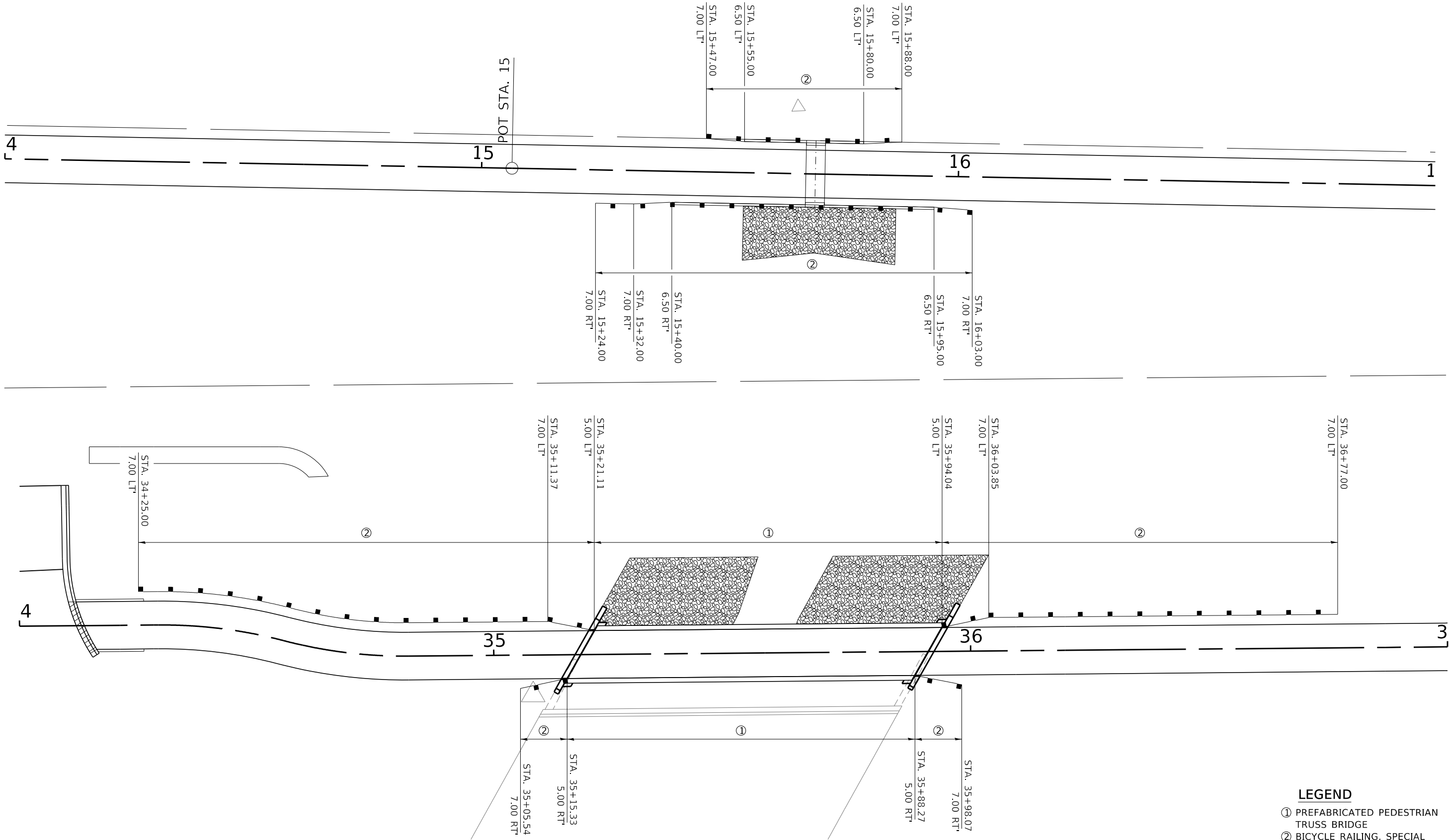
EROSION AND SEDIMENT CONTROL PLAN
PHASE 10 BIKE PATH

SHEET NO. 3 OF 5 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 95940				
C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)		

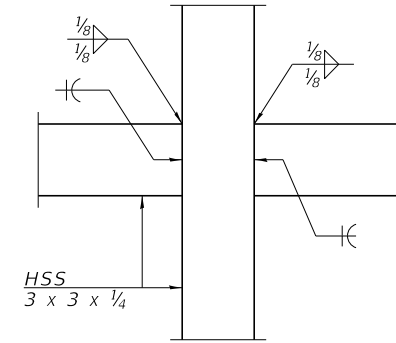
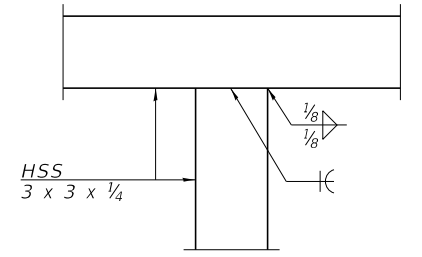
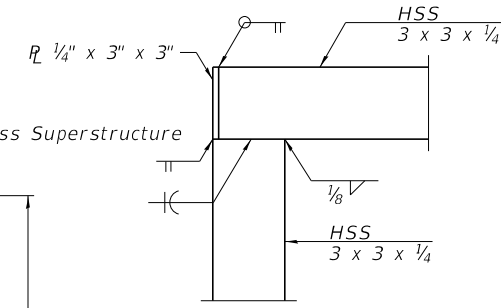
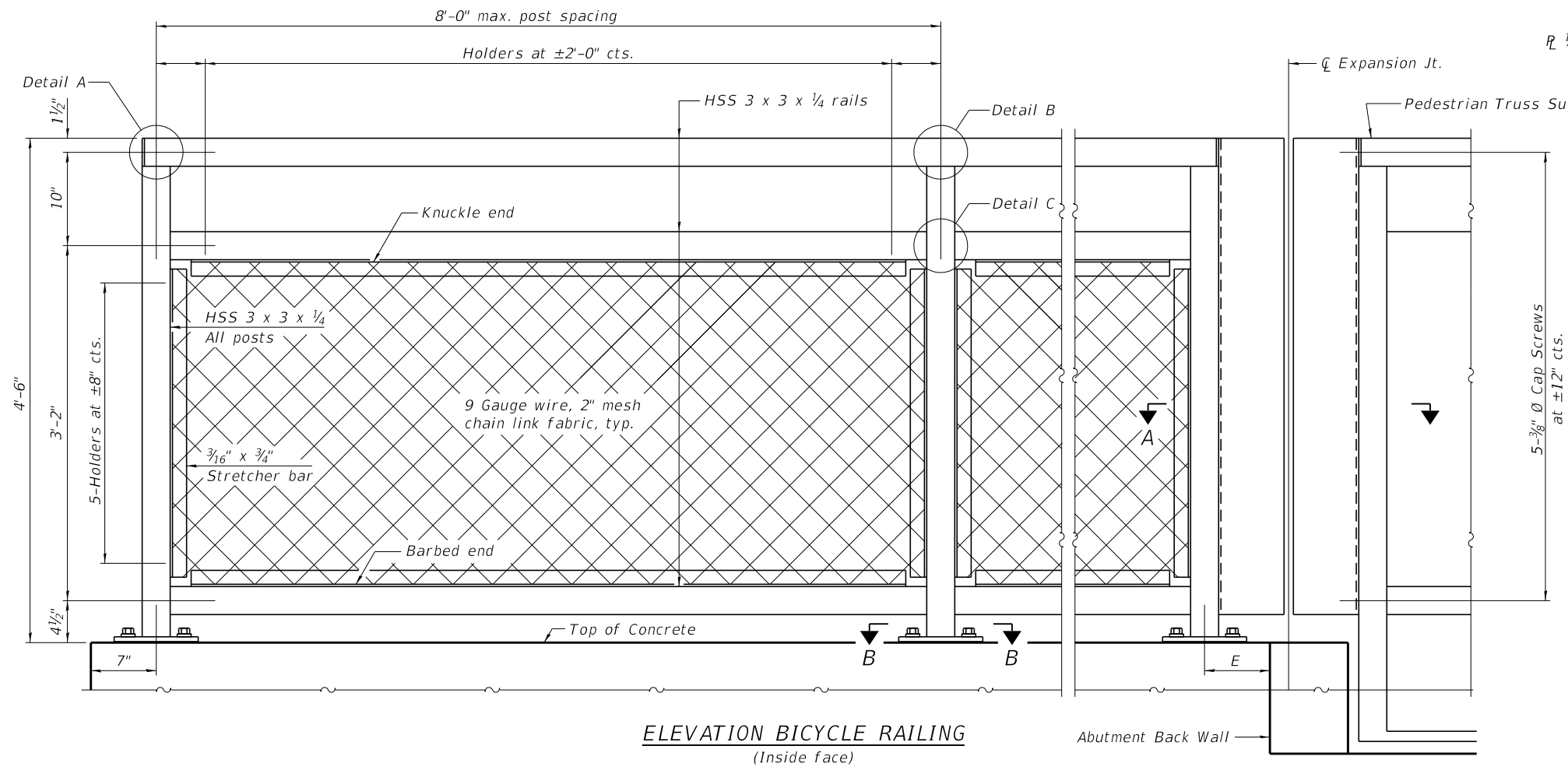


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HAMPTON, LENZINI AND RENWICK, INC.		PLOT SCALE =		CHECKED - J.W.F.	REVISED -				725	21-00060-01-BT	SHELBY	147	25
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959		PLOT DATE = 2/24/2025		DRAWN - D.M.F.	REVISED -				CONTRACT NO. 95940				
				CHECKED - X.X.X	REVISED -				C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)				



- LEGEND**
- ① PREFABRICATED PEDESTRIAN TRUSS BRIDGE
 - ② BICYCLE RAILING, SPECIAL

FILE NAME = 190404-shi-bkera11nglayout.dgn HLR HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = tlmk	DESIGNED - R.P.P.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	BICYCLE RAILING DETAILS	SHEET NO. 1 OF 3 SHEETS	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - X.X.X	REVISED -				325	21-00060-01-BT	SHELBY	147	27
		PLOT SCALE =	DRAWN - D.M.F.				CONTRACT NO. 95940				
		PLOT DATE = 2/24/2025	CHECKED - X.X.X				C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)		



RAILING CRITERIA

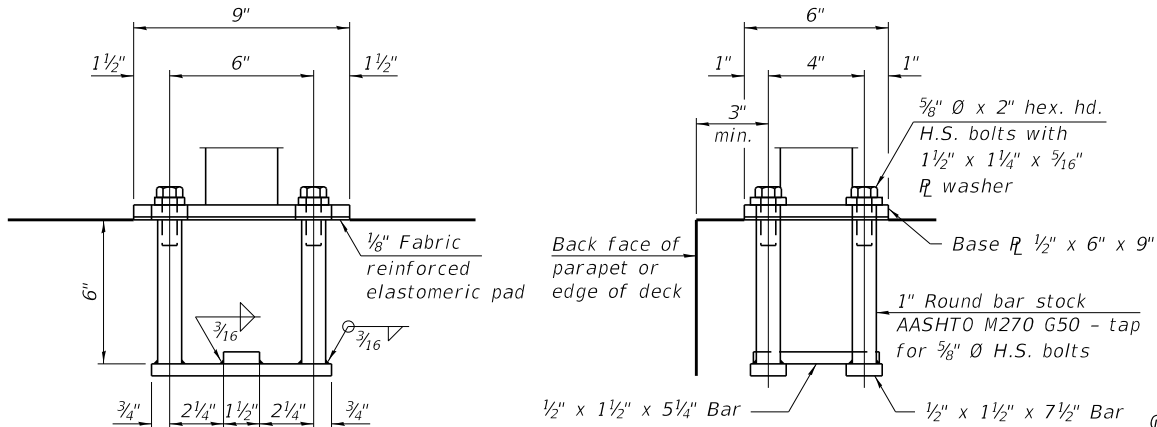
MASH 2016 Test Level	4
Parapet Railing Weight (plf)	25
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

R-29

10-27-2023

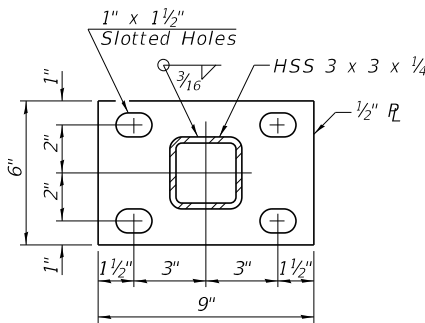
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	HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		PLOT SCALE =		CHECKED - X.X.X		REVISED -			325	21-00060-01-BT		SHELBY		147		28		
			PLOT DATE = 2/24/2025		DRAWN - D.M.F.		REVISED -			CONTRACT NO. 95940									
					CHECKED - X.X.X		REVISED -			SHEET NO. 2 OF 3 SHEETS									
										C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)									

(Sheet 1 of 2)

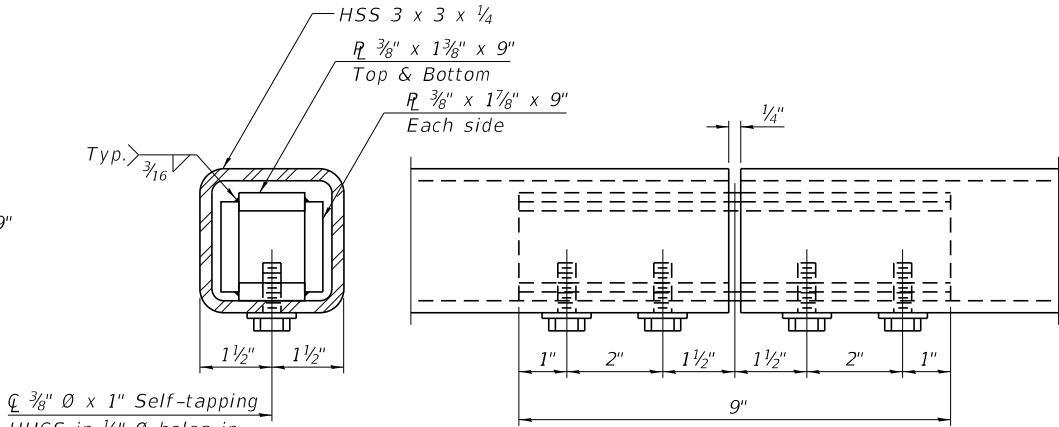


ANCHORAGE ASSEMBLY

The Bicycle Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates. In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" $\varnothing$ fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

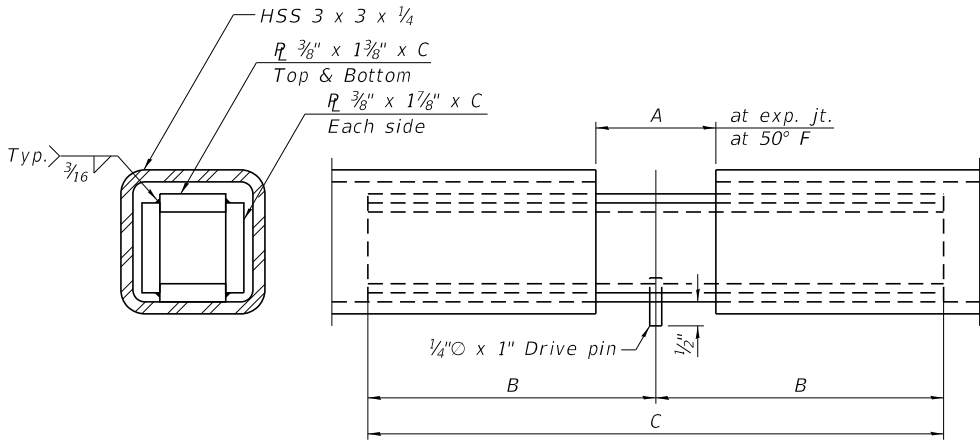


SECTION B-B

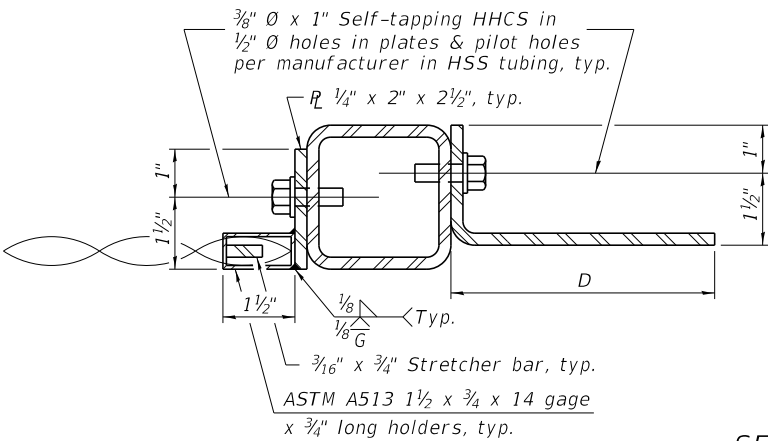


MATERIAL SPLICE

Notes:
Place reinforcement bars to miss anchor rod locations. CVN testing is not required for the HSS tubing used in the Bicycle Railing.
All heavy hex nuts shall be according to ASTM A 563 grade DH.
All fully threaded anchor rods shall be ASTM F1554 grade 105.
The post base plate shall be fastened to the curb snug tight and given an additional 1/8" turn.
Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
All steel rail elements and anchorage assemblies shall be galvanized according to Article 509.05 of the Standard Specifications.
Posts located on concrete shall be anchored according to the details on these sheets. Posts in turf areas shall be set in 12" dia. concrete footings minimum 36" below grade per Section 664 of the Standard Specifications.



EXPANSION SPLICE



SECTION A-A

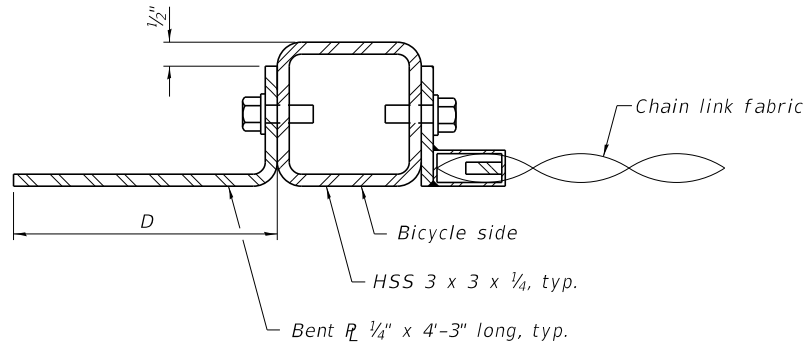


TABLE OF DIMENSIONS

Location	T	A	B	C	D	E
Over Strip Seal Jt.	$\leq 4"$	$2\frac{1}{2}"$	$1'-2"$	$2'-4"$	$7\frac{1}{4}"$	$7"$
Over Finger or Modular Jt.	$\leq 9\frac{1}{2}"$	$5\frac{1}{2}"$	$1'-7\frac{3}{4}"$	$3'-3\frac{1}{2}"$		
Over Finger or Modular Jt.	$\leq 15"$	$8\frac{1}{4}"$	$2'-1\frac{1}{4}"$	$4'-2\frac{1}{2}"$		

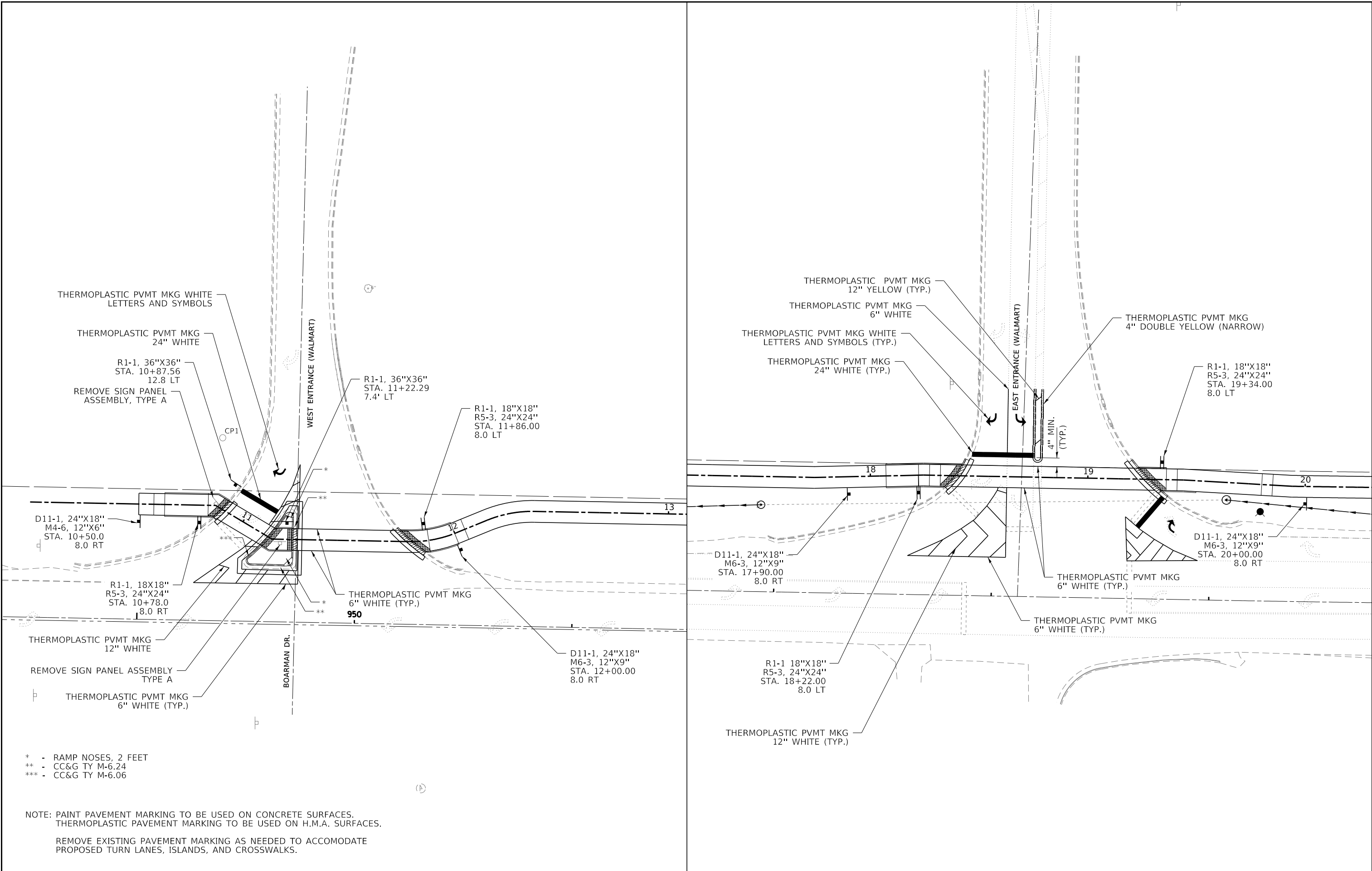
T= ; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

R-29

10-27-2023

(Sheet 2 of 2)

FILE NAME = 190404-shi-bkera11nglayout.dgn		USER NAME = tlmk	DESIGNED - R.P.P.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	BICYCLE RAILING, SPECIAL LAYOUT AND DETAILS					F.A.P.	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			CHECKED - X.X.X	REVISED -		325	21-00060-01-BT	SHELBY	147	29					
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						C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)									

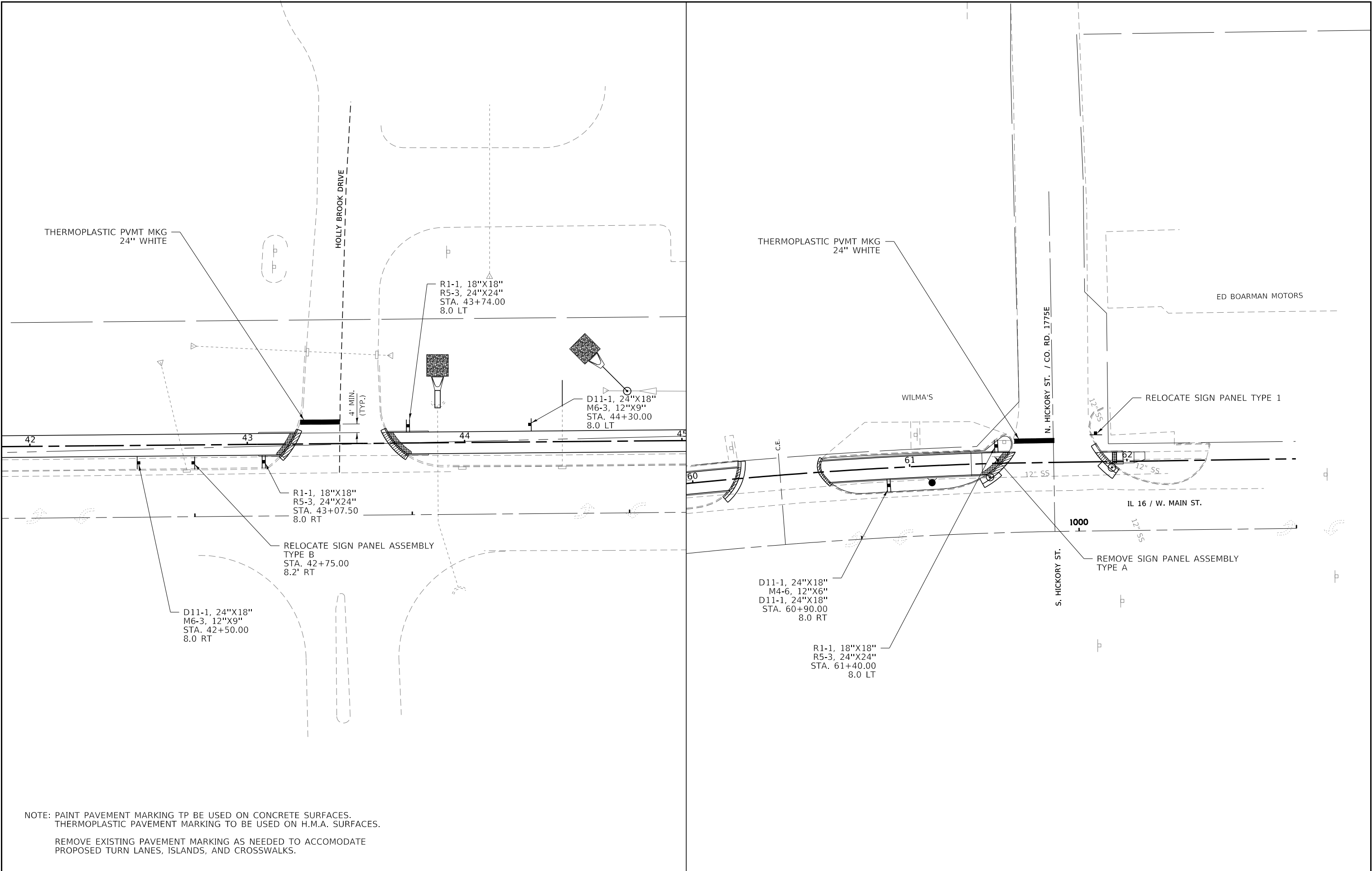


- * - RAMP NOSES, 2 FEET
- ** - CC&G TY M-6.24
- *** - CC&G TY M-6.06

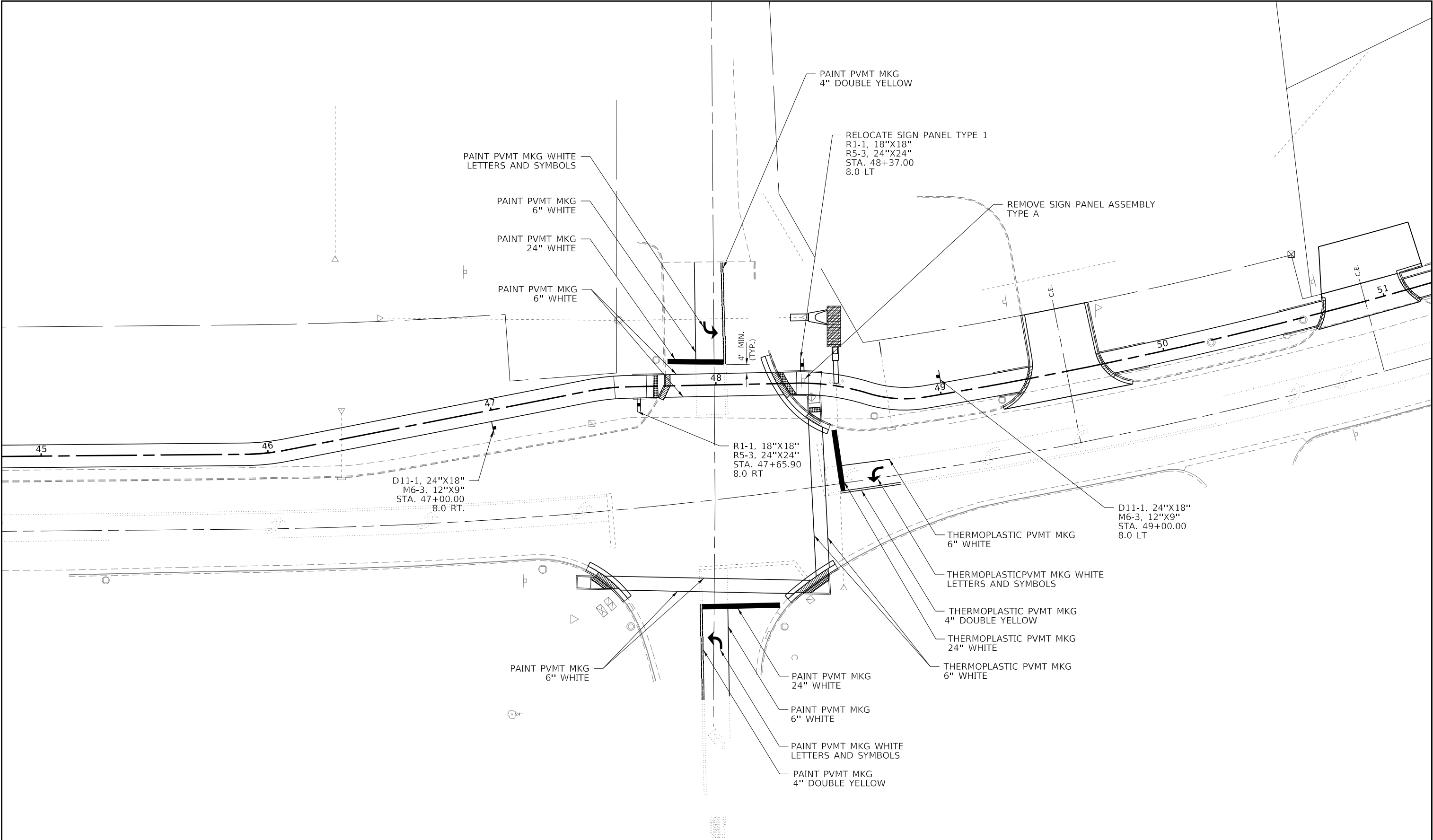
NOTE: PAINT PAVEMENT MARKING TO BE USED ON CONCRETE SURFACES.
THERMOPLASTIC PAVEMENT MARKING TO BE USED ON H.M.A. SURFACES.

REMOVE EXISTING PAVEMENT MARKING AS NEEDED TO ACCOMODATE
PROPOSED TURN LANES, ISLANDS, AND CROSSWALKS.

FILE NAME = 190404-shi-Intersect@ndetail.s.dgn	USER NAME = tlmk	DESIGNED - R.P.P.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	WEST/EAST WALMART ENTRANCES INTERSECTION DETAILS	SHEET NO. 1 OF 3 SHEETS	F.A.P.	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	PLOT SCALE =	CHECKED - X.X.X	REVISED -				325	21-00060-01-BT	SHELBY	147	30
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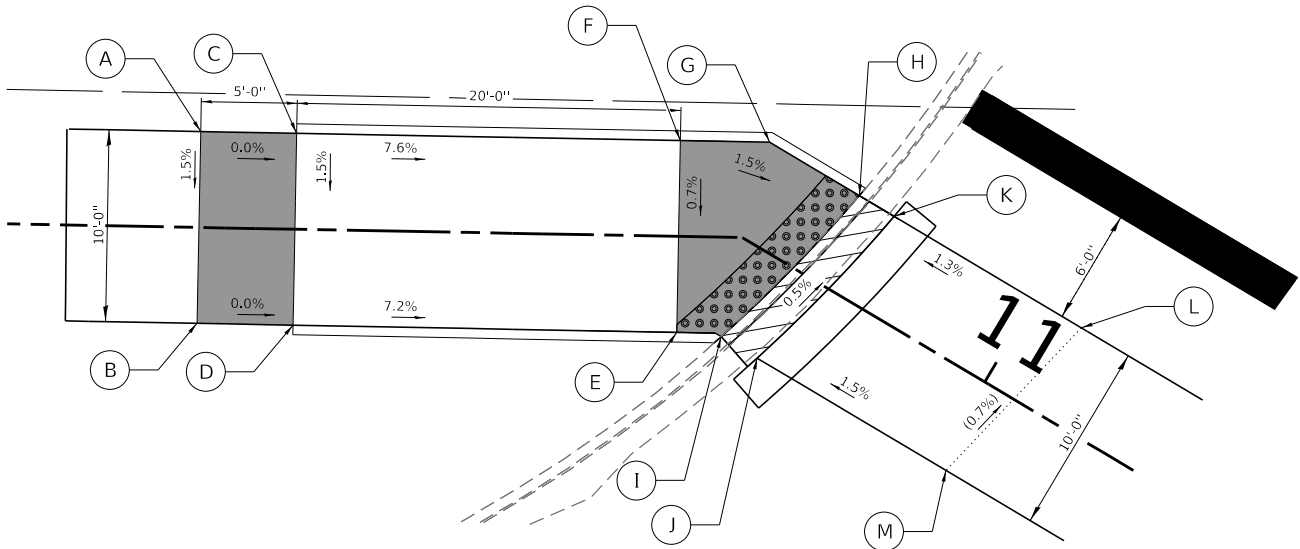
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3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703				DRAWN - D.M.F.		REVISED -						CONTRACT NO. 95940									
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959				CHECKED - X.X.X		REVISED -						SHEET NO. 2 OF 3 SHEETS									
PLOT SCALE =												C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)							
PLOT DATE = 2/24/2025																					



NOTE: PAINT PAVEMENT MARKING TP BE USED ON CONCRETE SURFACES.
THERMOPLASTIC PAVEMENT MARKING TO BE USED ON H.M.A. SURFACES.

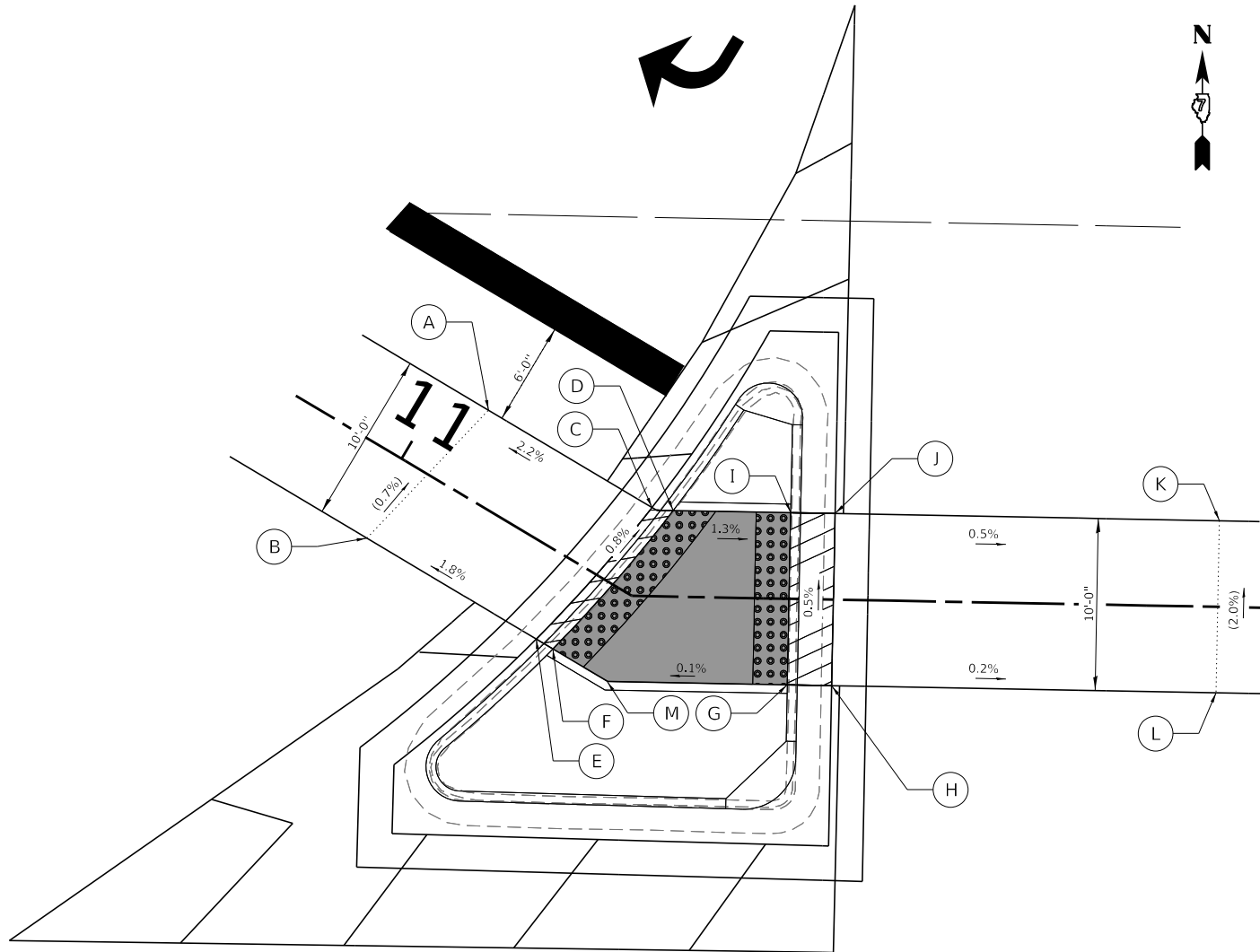
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PROPOSED TURN LANES, ISLANDS, AND CROSSWALKS.

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ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 HAMPSON, LENZINI AND RENWICK, INC.		CHECKED - X.X.X		REVISED -		F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO.							
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		SHEET NO. 3 OF 3 SHEETS								C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)			



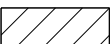
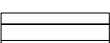
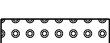
WEST ENTRANCE
(WALMART)

CORNER 1			
POINT	STATION	OFFSET	ELEVATION
A	10+56.97	5.00' LT	607.97
B	10+56.97	5.00' RT	607.82
C	10+61.97	5.00' LT	607.97
D	10+61.97	5.00' RT	607.82
E	10+81.97	5.00' RT	606.39
F	10+81.97	5.00' LT	606.46
G	10+85.30	5.17' LT	606.39
H	10+89.41	5.00' LT	606.31
I	10+87.07	4.74' RT	606.36
J	10+89.17	5.00' RT	606.39
K	10+91.53	5.00' LT	606.34
L	11+02.89	5.00' LT	(606.49)
M	11+00.62	5.00' RT	(606.56)

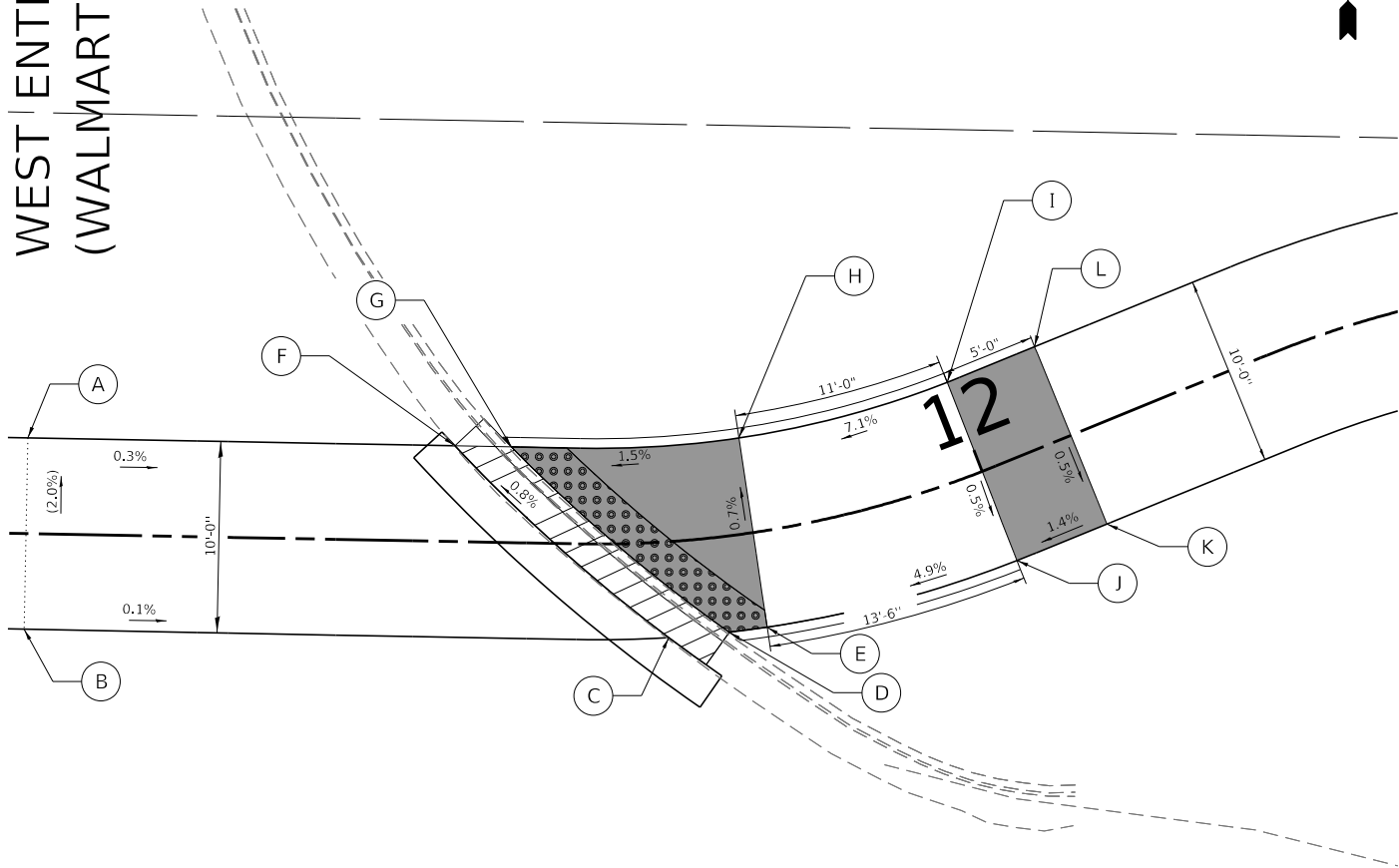


WEST ENTRANCE (WALMART)

CORNER 2			
POINT	STATION	OFFSET	ELEVATION
A	11+02.89	5.00' LT	(606.49)
B	11+00.62	5.00' RT	(606.56)
C	11+13.94	5.00' LT	606.69
D	11+16.90	5.00' LT	606.70
E	11+12.08	5.00' RT	606.77
F	11+13.19	5.00' RT	606.78
G	11+24.68	5.00' RT	606.76
H	11+27.27	5.00' RT	606.82
I	11+24.69	5.00' LT	606.61
J	11+27.28	5.00' LT	606.67
K	11+49.59	5.00' LT	(606.57)
L	11+49.59	5.00' RT	(606.77)
M	11+15.57	5.00' RT	606.78

ADA LEGEND	
(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
(X.X%)	EXISTING SLOPE AND DIRECTION
X.X%	PROPOSED SLOPE AND DIRECTION
	TURNING SPACE
	DEPRESSED CURB
	PROPOSED SIDE CURB
	DETECTABLE WARNING

WEST ENTRANCE
(WALMART)



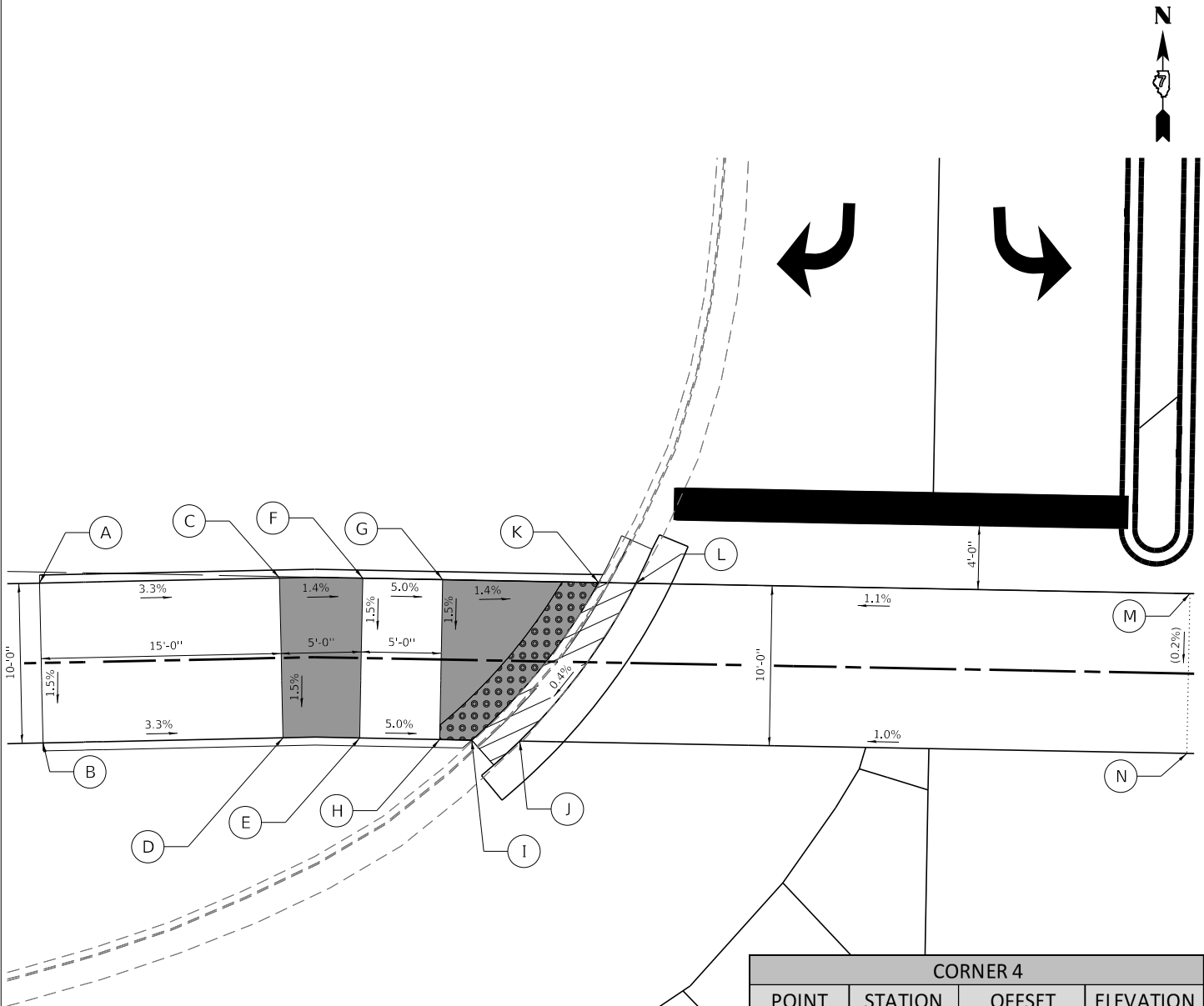
CORNER 3			
POINT	STATION	OFFSET	ELEVATION
A	11+49.59	5.00' LT	(606.57)
B	11+49.59	5.00' RT	(606.77)
C	11+82.87	5.00' RT	606.72
D	11+85.76	5.00' RT	606.69
E	11+87.59	5.00' RT	606.72
F	11+71.87	5.00' LT	606.50
G	11.74.84	5.00' LT	606.47
H	11+87.59	5.00' LT	606.65
I	11+98.61	5.00' LT	607.43
J	11+98.61	5.00' RT	607.38
K	12+03.60	5.00' RT	607.45
L	12+03.60	5.00' LT	607.50

STATE OF ILLINOIS
CITY OF SHELBYVILLE

PHASE 10 BIKE PATH
CURB RAMP DETAILS

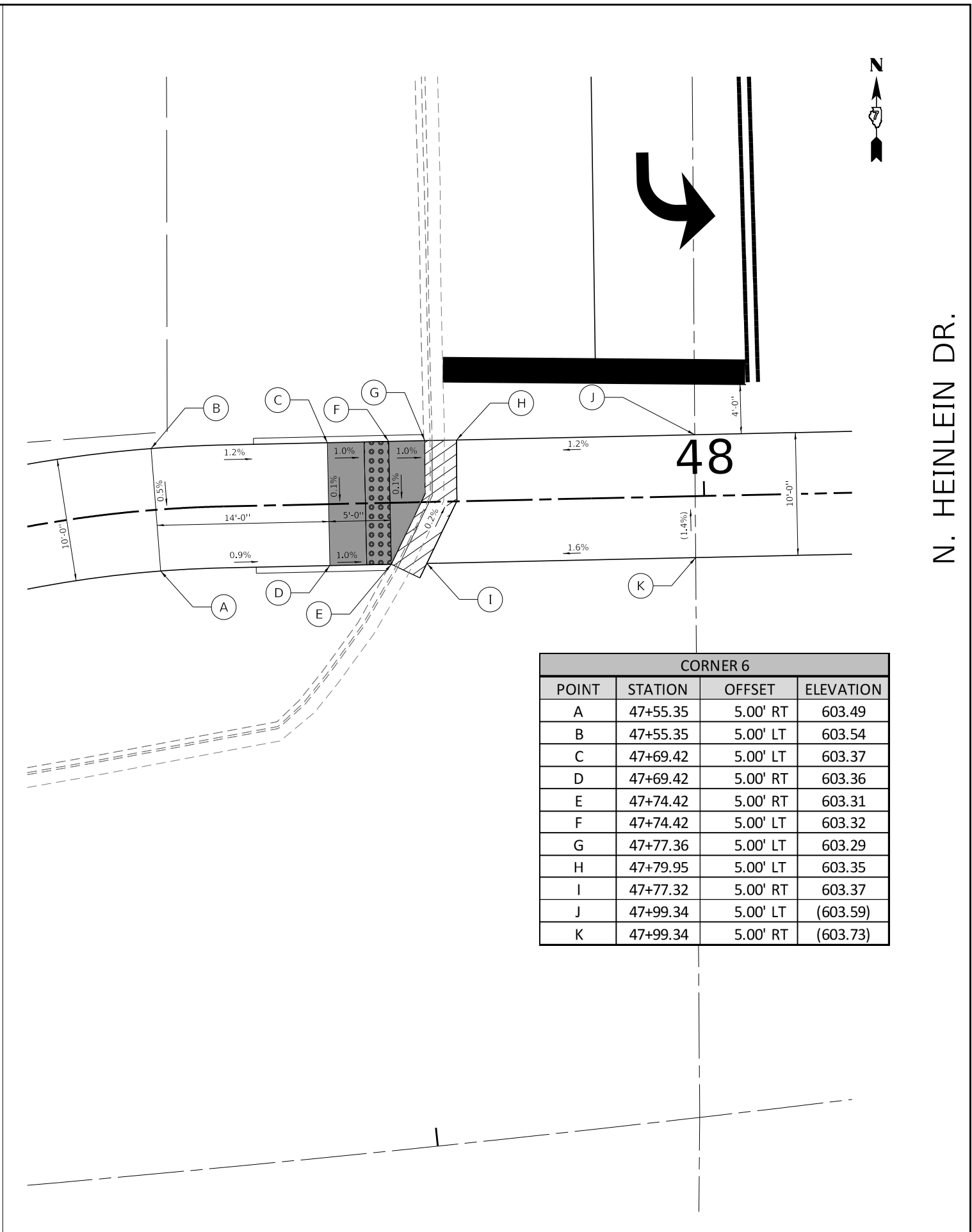
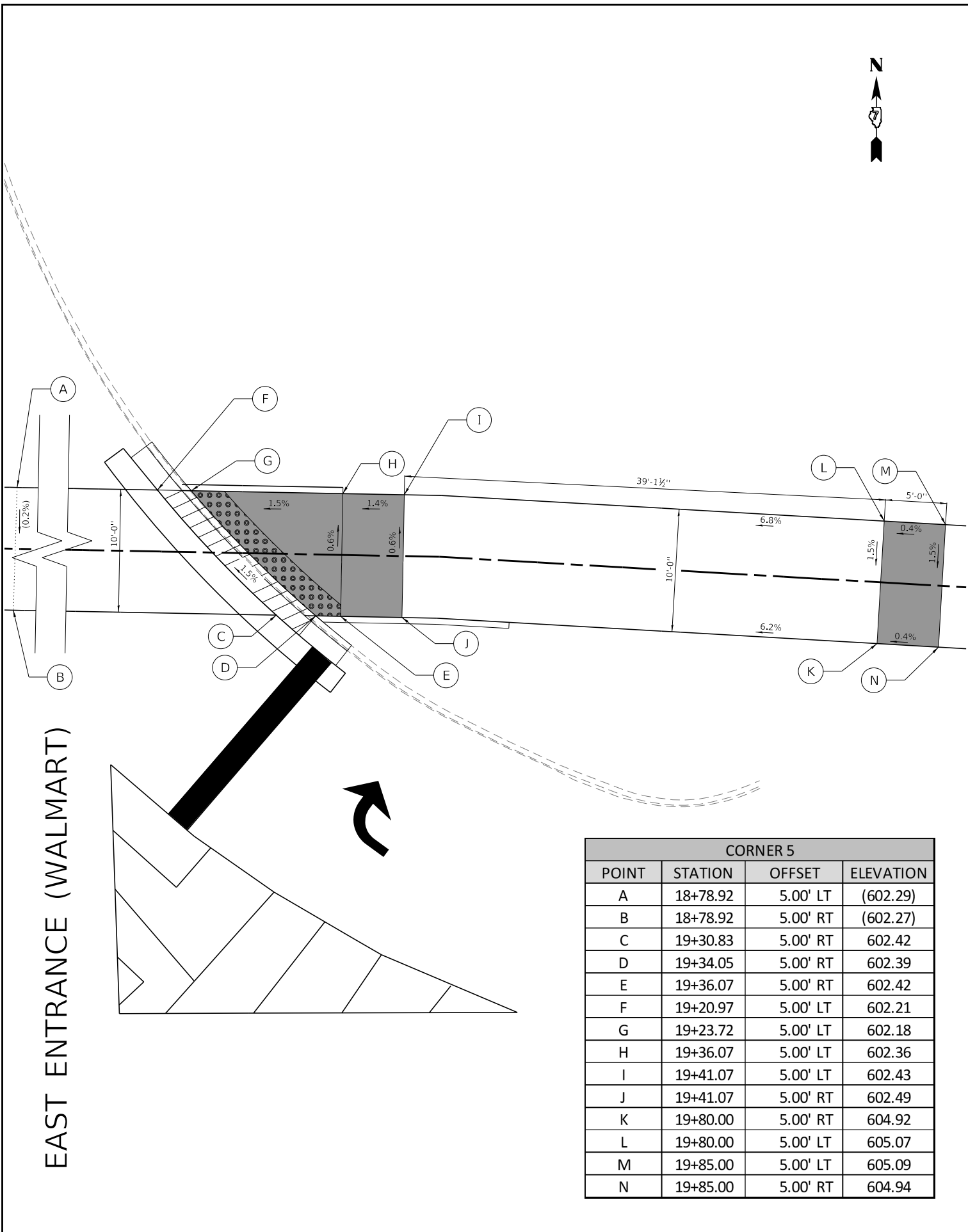
F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	21-00060-01-BT	SHELBY	147	34
CONTRACT NO. 95940				
C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)		

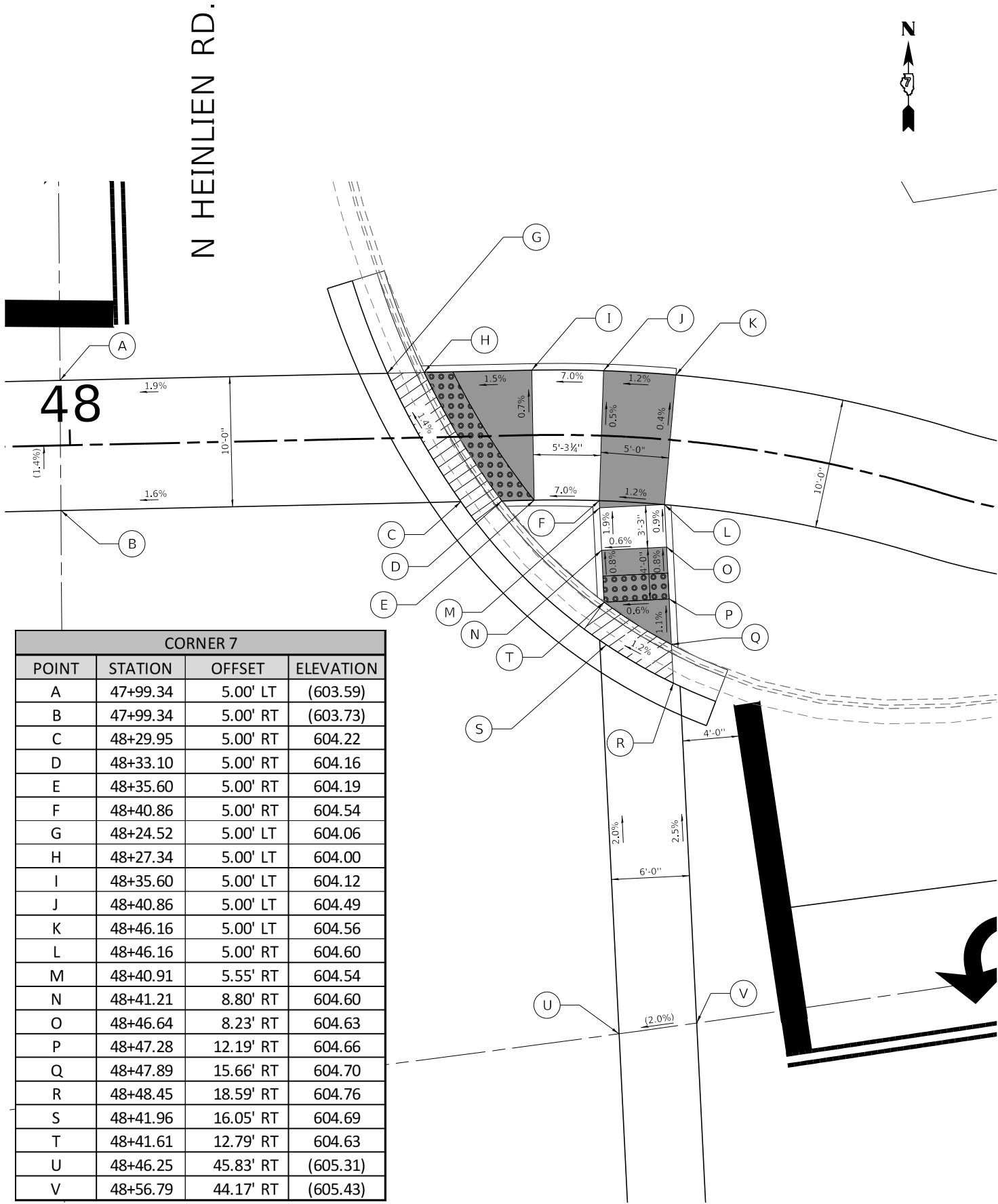
EAST ENTRANCE (WALMART)



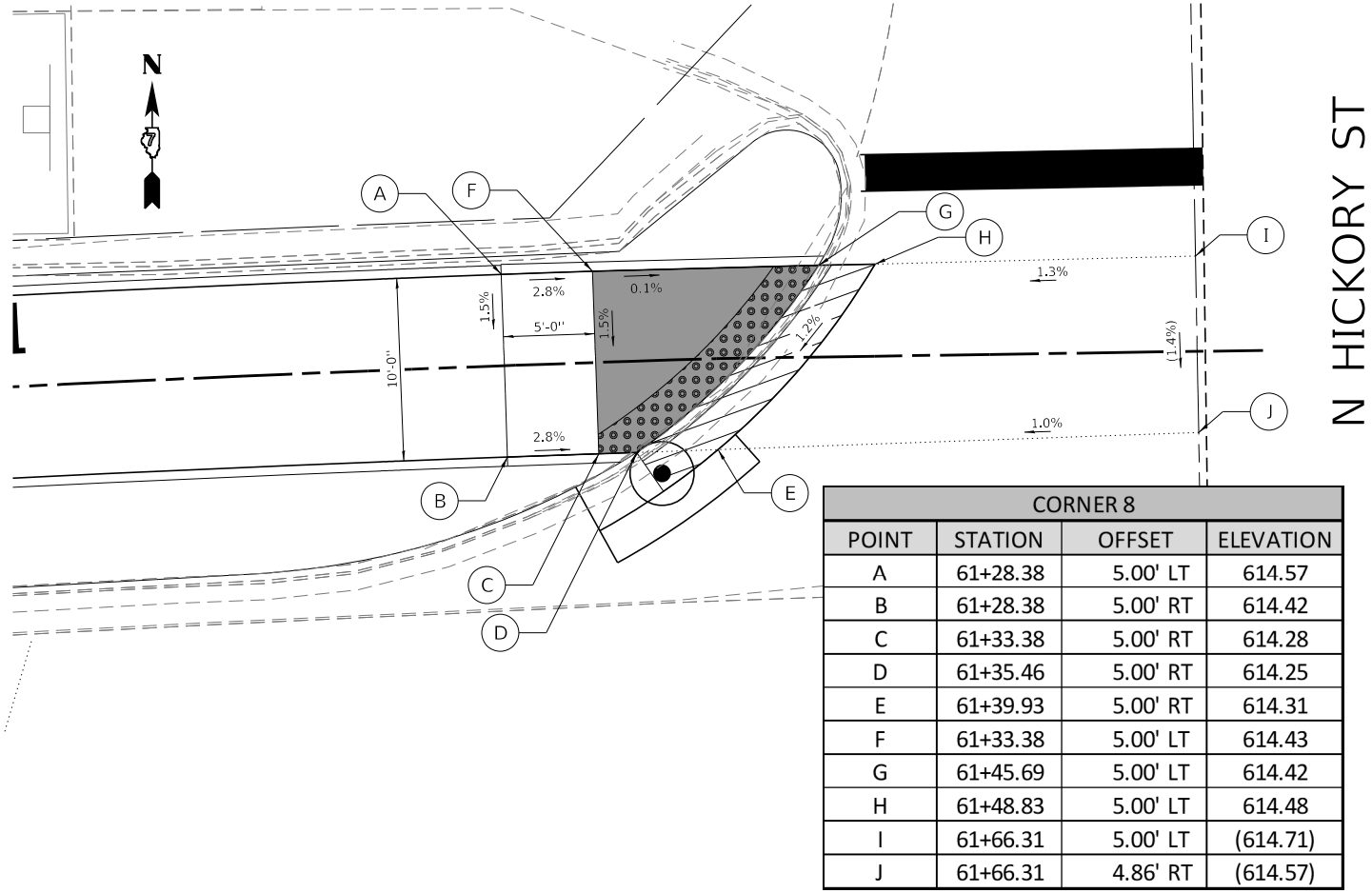
CORNER 4			
POINT	STATION	OFFSET	ELEVATION
A	18+07.21	5.00' LT	602.77
B	18+07.21	5.00' RT	602.62
C	18+22.21	5.00' LT	602.28
D	18+22.21	5.00' RT	602.13
E	18+27.22	5.00' RT	602.06
F	18+27.22	5.00' LT	602.21
G	18+32.22	5.00' LT	601.96
H	18+32.22	5.00' RT	601.81
I	18+34.22	5.00' RT	601.78
J	18+37.22	5.00' RT	601.81
K	18+41.96	5.00' LT	601.83
L	18+44.30	5.00' LT	601.86
M	18+78.92	5.00' LT	(602.29)
N	18+78.92	5.00' LT	(602.27)

FILE NAME = 190404-shit-ada.dgn	USER NAME = tlmk	DESIGNED - X.X.X	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - X.X.X	REVISED -
3035 STEVENSON DRIVE, SUITE 201		DRAWN - X.X.X	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - X.X.X	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP. 184.000959			
PLOT SCALE =			
PLOT DATE = 2/24/2025			



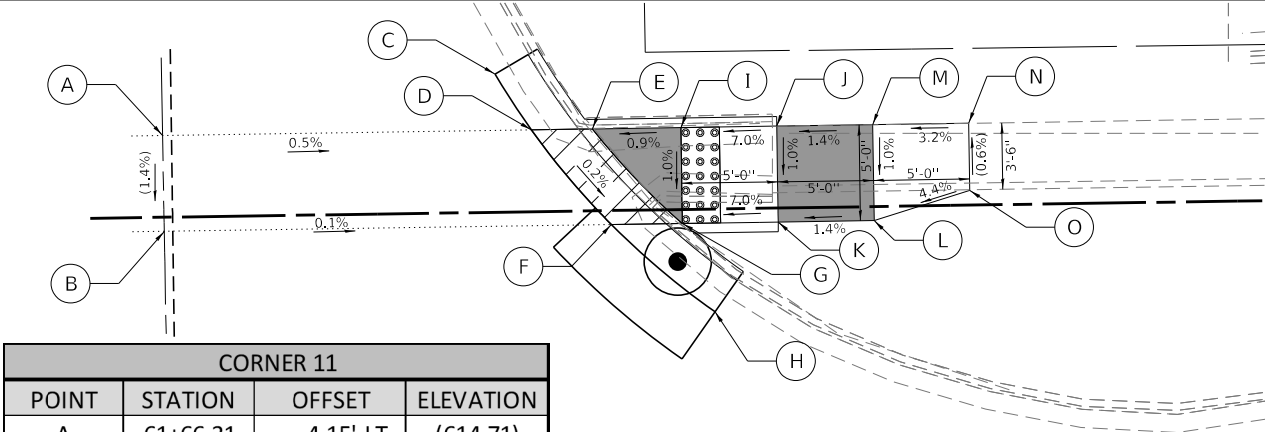


CORNER 7			
POINT	STATION	OFFSET	ELEVATION
A	47+99.34	5.00' LT	(603.59)
B	47+99.34	5.00' RT	(603.73)
C	48+29.95	5.00' RT	604.22
D	48+33.10	5.00' RT	604.16
E	48+35.60	5.00' RT	604.19
F	48+40.86	5.00' RT	604.54
G	48+24.52	5.00' LT	604.06
H	48+27.34	5.00' LT	604.00
I	48+35.60	5.00' LT	604.12
J	48+40.86	5.00' LT	604.49
K	48+46.16	5.00' LT	604.56
L	48+46.16	5.00' RT	604.60
M	48+40.91	5.55' RT	604.54
N	48+41.21	8.80' RT	604.60
O	48+46.64	8.23' RT	604.63
P	48+47.28	12.19' RT	604.66
Q	48+47.89	15.66' RT	604.70
R	48+48.45	18.59' RT	604.76
S	48+41.96	16.05' RT	604.69
T	48+41.61	12.79' RT	604.63
U	48+46.25	45.83' RT	(605.31)
V	48+56.79	44.17' RT	(605.43)



CORNER 8			
POINT	STATION	OFFSET	ELEVATION
A	61+28.38	5.00' LT	614.57
B	61+28.38	5.00' RT	614.42
C	61+33.38	5.00' RT	614.28
D	61+35.46	5.00' RT	614.25
E	61+39.93	5.00' RT	614.31
F	61+33.38	5.00' LT	614.43
G	61+45.69	5.00' LT	614.42
H	61+48.83	5.00' LT	614.48
I	61+66.31	5.00' LT	(614.71)
J	61+66.31	4.86' RT	(614.57)

N HICKORY ST



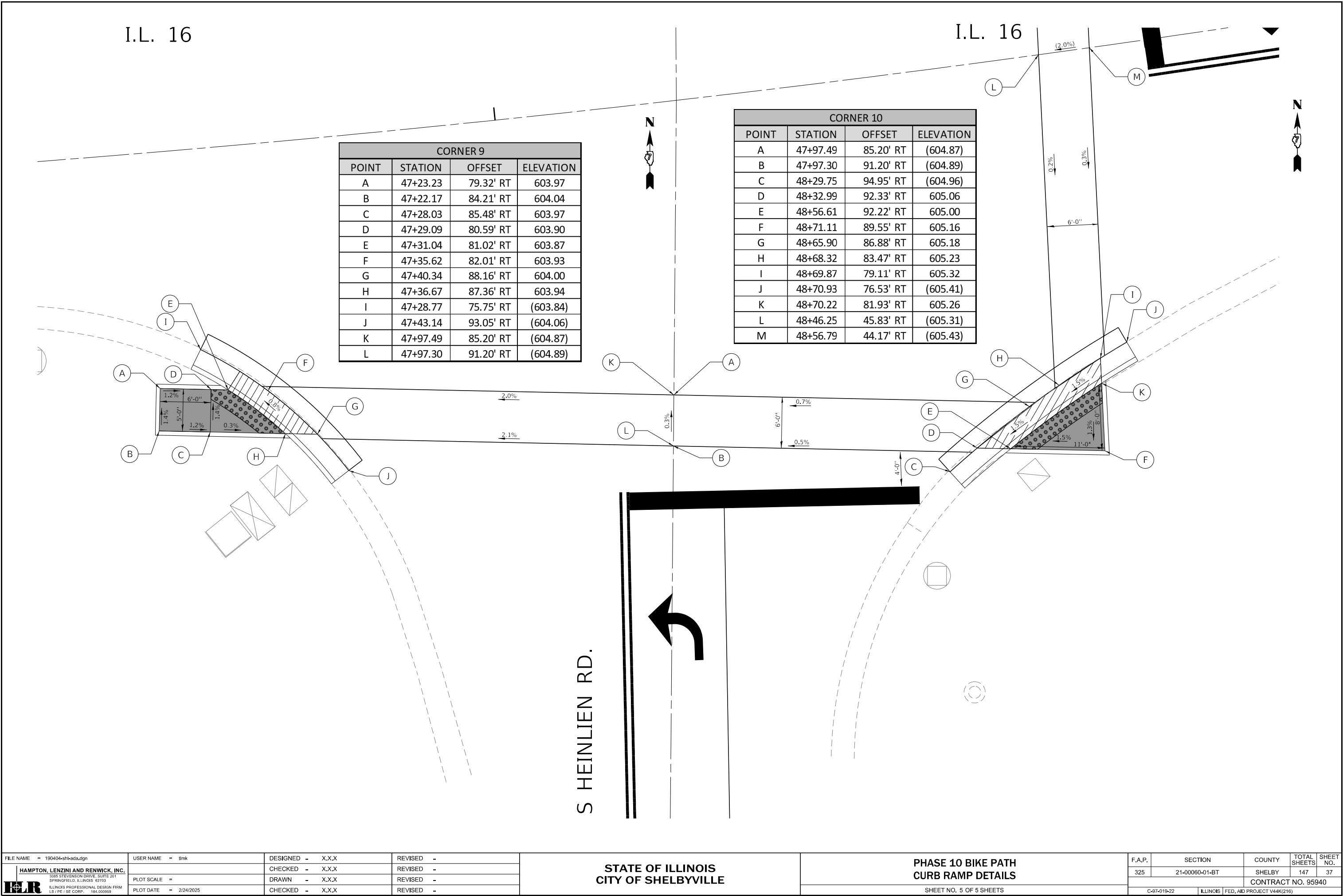
CORNER 11			
POINT	STATION	OFFSET	ELEVATION
A	61+66.31	4.15' LT	(614.71)
B	61+66.31	0.85' RT	(614.64)
C	61+83.71	7.02' LT	(614.63)
D	61+85.54	4.07' LT	(614.62)
E	61+88.72	4.06' LT	614.56
F	61+89.62	0.94' RT	(614.61)
G	61+93.32	0.95' RT	614.55
H	61+94.96	5.57' RT	(614.75)
I	61+93.30	4.05' LT	614.60
J	61+98.30	4.07' LT	614.95
K	61+98.32	0.93' RT	614.90
L	62+03.32	0.92' RT	614.97
M	62+03.30	4.08' LT	615.02
N	62+08.30	4.09' LT	(615.18)
O	62+08.31	0.59' LT	(615.20)

I.L. 16

I.L. 16

CORNER 9			
POINT	STATION	OFFSET	ELEVATION
A	47+23.23	79.32' RT	603.97
B	47+22.17	84.21' RT	604.04
C	47+28.03	85.48' RT	603.97
D	47+29.09	80.59' RT	603.90
E	47+31.04	81.02' RT	603.87
F	47+35.62	82.01' RT	603.93
G	47+40.34	88.16' RT	604.00
H	47+36.67	87.36' RT	603.94
I	47+28.77	75.75' RT	(603.84)
J	47+43.14	93.05' RT	(604.06)
K	47+97.49	85.20' RT	(604.87)
L	47+97.30	91.20' RT	(604.89)

CORNER 10			
POINT	STATION	OFFSET	ELEVATION
A	47+97.49	85.20' RT	(604.87)
B	47+97.30	91.20' RT	(604.89)
C	48+29.75	94.95' RT	(604.96)
D	48+32.99	92.33' RT	605.06
E	48+56.61	92.22' RT	605.00
F	48+71.11	89.55' RT	605.16
G	48+65.90	86.88' RT	605.18
H	48+68.32	83.47' RT	605.23
I	48+69.87	79.11' RT	605.32
J	48+70.93	76.53' RT	(605.41)
K	48+70.22	81.93' RT	605.26
L	48+46.25	45.83' RT	(605.31)
M	48+56.79	44.17' RT	(605.43)



TRAFFIC SIGNAL GENERAL NOTES

THIS TRAFFIC SIGNAL PORTION OF THIS PROJECT CONSISTS OF PEDESTRIAN SIGNAL ADDITIONS TO 2 SEPARATE INTERSECTIONS WITH EXISTING TRAFFIC SIGNALS ALONG MAIN STREET-IL 16 (EAST ENTRANCE AND HEINLEIN DRIVE) ALL IN THE CITY OF SHELBYVILLE, SHELBY COUNTY. THE WORK INCLUDED IN THIS SECTION CONSISTS OF INSTALLING TRAFFIC SIGNAL EQUIPMENT AND ALL OTHER WORK NECESSARY TO COMPLETE THIS PORTION OF THIS PROJECT.

THE EXISTING UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CALL J.U.L.I.E. AT 1-800-892-0123. THE TRAFFIC SIGNAL UTILITY LINES WILL BE LOCATED BY IDOT, CALL 217-342-8396.

THE TRAFFIC SIGNAL ENGINEER AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED AT 217-342-8396 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNIT.

THE SIZE OF THE CABLE SUPPLIED SHALL BE EQUAL TO OR GREATER THAN THE SIZE OF THE CABLE REQUIRED TO CARRY THE LOAD BETWEEN THE CONTROLLER AND THE SERVICE INSTALLATION.

A 2 FOOT MINIMUM, 6 FOOT DESIRABLE, HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF CURB TO THE EDGE OF HANDHOLES, JUNCTION BOXES AND SIGNAL POST FOUNDATIONS. A 5 FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF THE CURB TO ALL MAST ARM FOUNDATIONS. CONTROLLER FOUNDATIONS SHALL BE LOCATED AS FAR FROM THE BACK OF THE CURB AS POSSIBLE TO PROTECT THE CONTROLLER CABINET.

ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FOOT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

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

THE NUMBER OF CONDUCTORS FOR ELECTRIC CABLES AS SHOWN ON THE PLANS SHALL BE THE MINIMUM NUMBER OF CONDUCTORS FURNISHED FOR EACH LOCATION. THE CONTRACTOR MAY SUBSTITUTE AN ELECTRIC CABLE WITH MORE CONDUCTORS THAN SPECIFIED BUT NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE EXTRA CONDUCTORS.

ALL NEW TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES WILL BE ALLOWED ONLY FOR DETECTOR LOOPS IN THE FIRST HANDHOLE OR GULFBOX FROM THE EDGE OF PAVEMENT OR INSIDE THE HANDHOLE LOCATED ON THE MAST ARM POLE FOR ANY SIGNAL HEADS LOCATED ON THE MAST ARM.

ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.

ALL MAST ARM MOUNTED SIGNAL HEADS SHALL BE MOUNTED AS TO ALIGN WITH THE CENTER OF THE LANE.

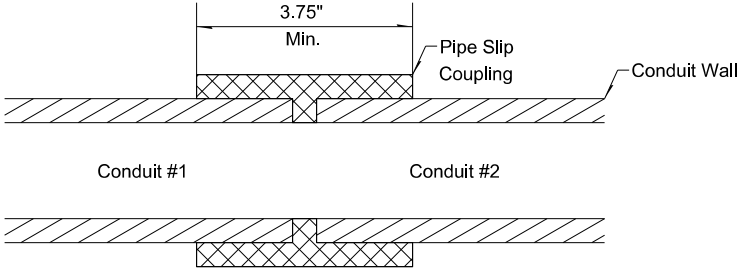
TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL HEAD PAY ITEMS.

ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES (STANDARD, COMBINATION, OR DUAL) MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.

A REPRESENTATIVE OF THE TRAFFIC CONTROLLER MANUFACTURER SHALL BE PRESENT FOR ALL TRAFFIC SIGNAL EQUIPMENT ACTIVATONS.

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

LOOP SIZE IN (FT)						NUMBER OF TURNS
6 X 6		6 X 30		6 X 40		
DISTANCE FROM CONTROLLER (FT)						
		0	491	0	627	2 TURNS
		492	982	628	1255	3 TURNS
0	545	983	1636	1256	2091	4 TURNS
546	818	1637	2455	2092	3136	5 TURNS
819	1145	2456	3436			6 TURNS
1146	1527					7 TURNS
1528	1964					8 TURNS
1965	2455					9 TURNS
2456	3000					10 TURNS

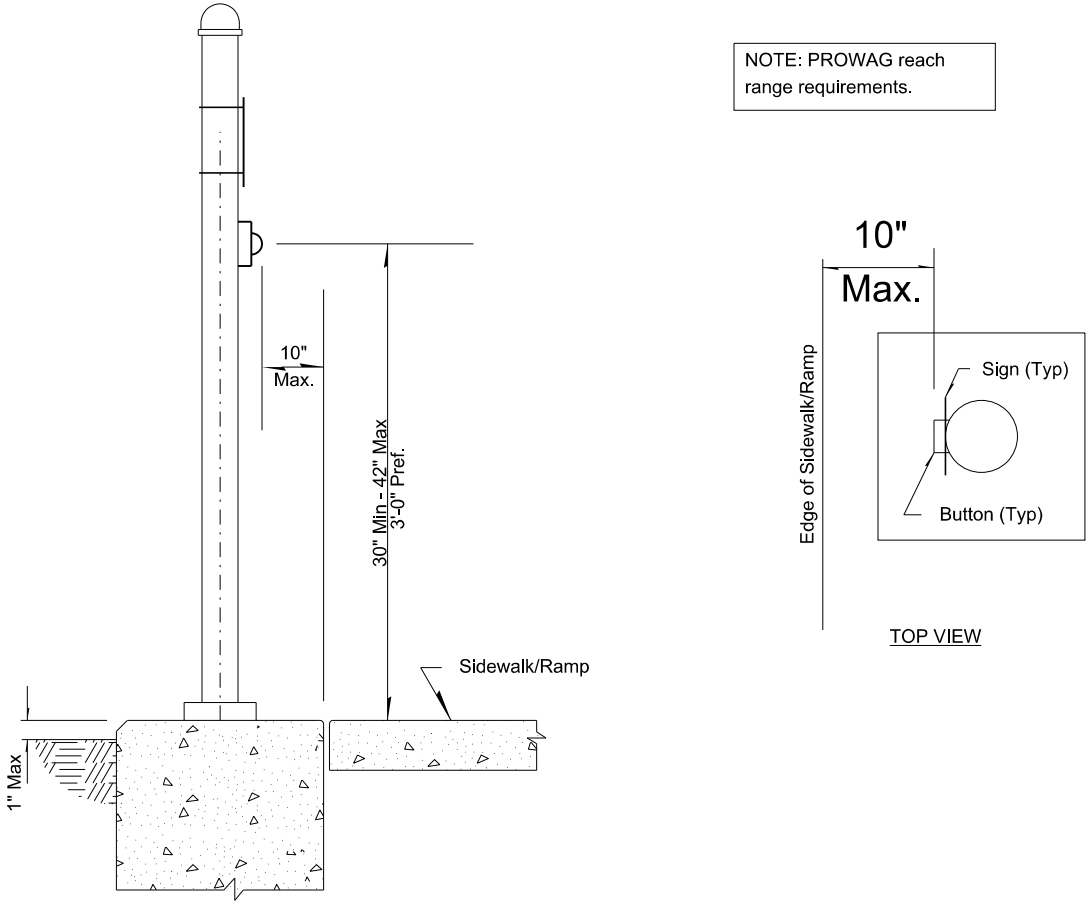


CONDUIT SPLICE CROSS-SECTION DETAIL

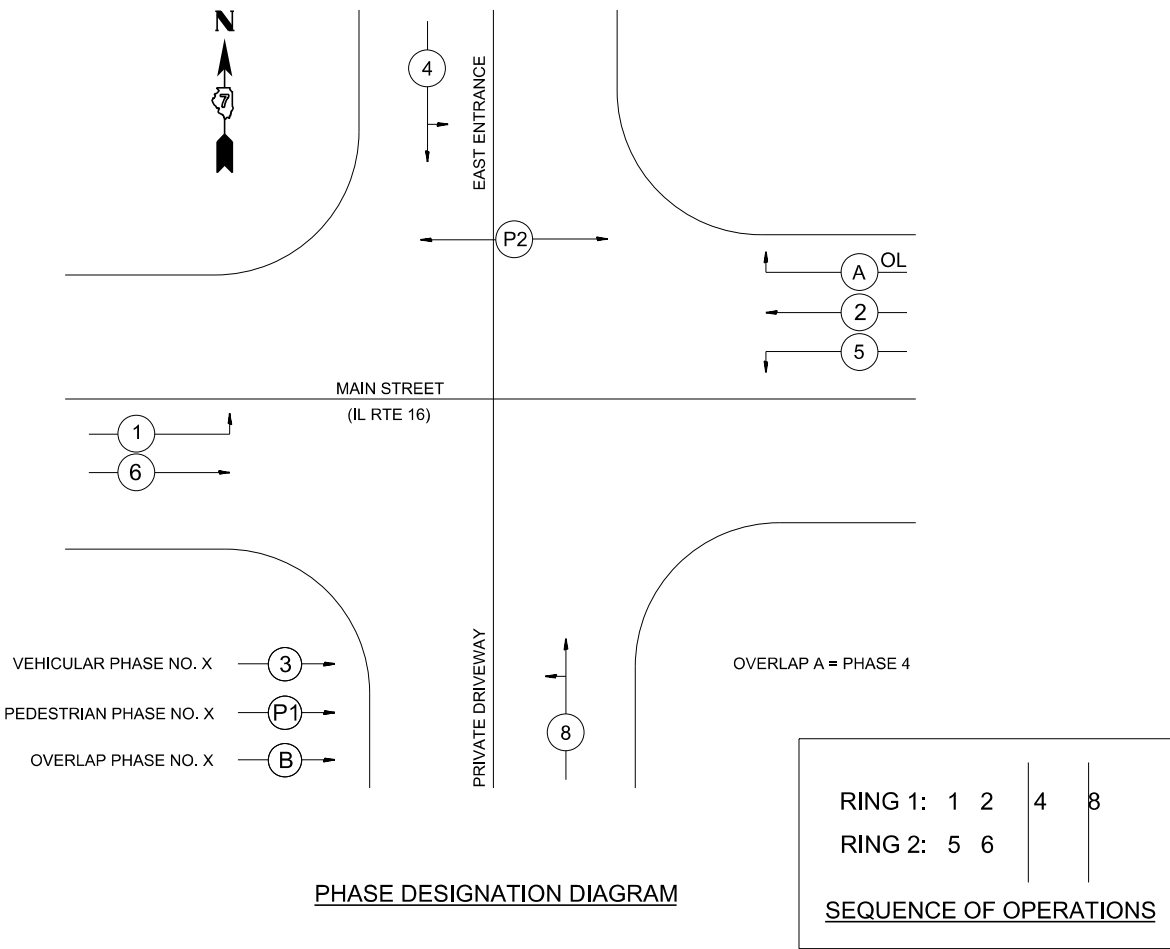
LEGEND

	Existing	Proposed
SIGNAL POST		
MAST ARM		
SIGNAL HEAD W/ BACKPLATE		
SIGNAL HEAD W/O BACKPLATE		
CONTROLLER		
HANDHOLE		
GULFBOX JUNCTION		
DOUBLE HANDHOLE		
DETECTOR LOOP		
TRAFFIC SIGNAL HEAD		
LUMINAIRE		

NOTE: PROWAG reach range requirements.

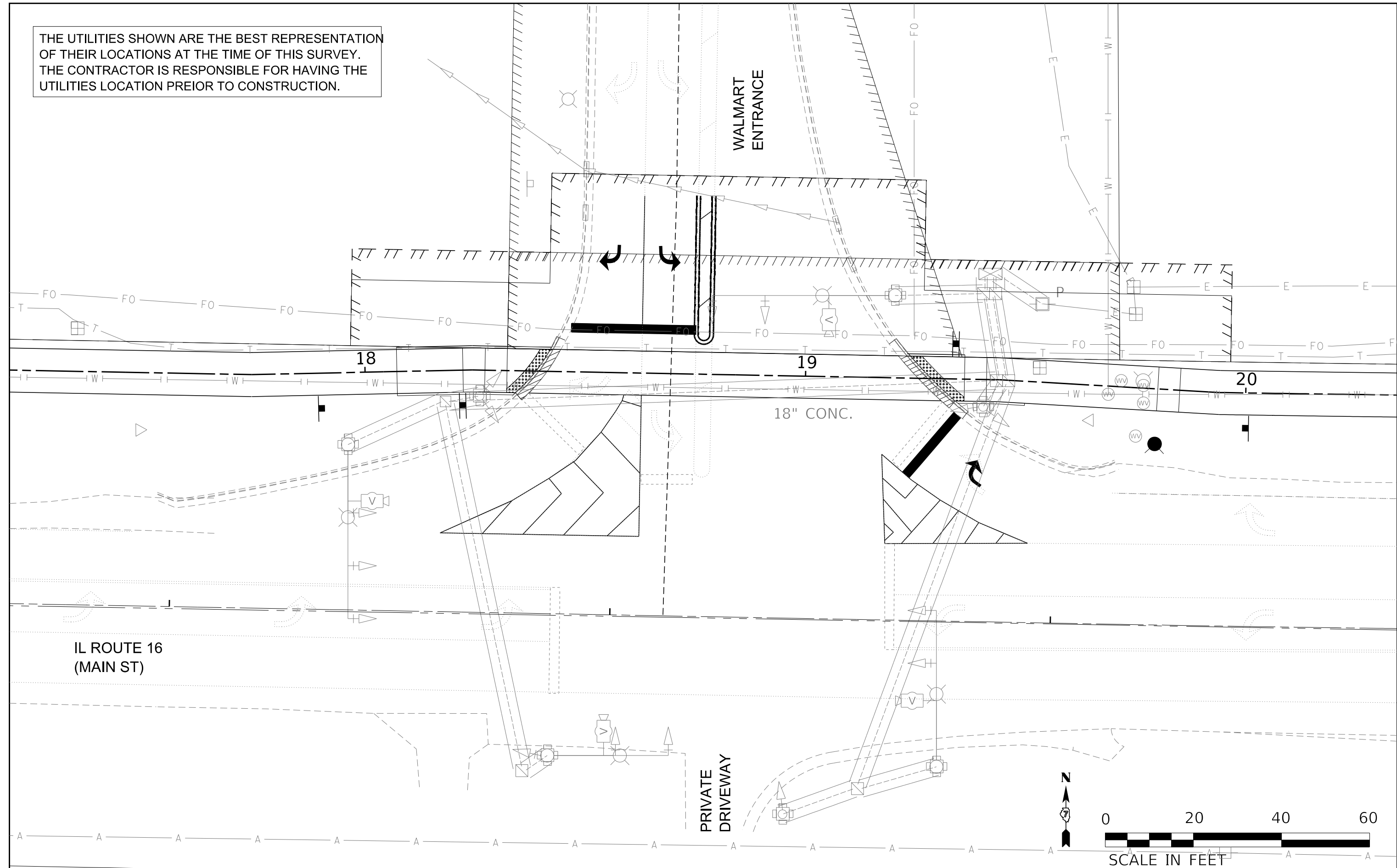


PEDESTRIAN PUSH-BUTTON LOCATION



ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	30
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	123
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	234
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	450
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	203
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	40
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	4000
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
CONDUIT SPLICE	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
MODIFY VIDEO PROCESSING UNIT	EACH	1

THE UTILITIES SHOWN ARE THE BEST REPRESENTATION
OF THEIR LOCATIONS AT THE TIME OF THIS SURVEY.
THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE
UTILITIES LOCATION PREIOR TO CONSTRUCTION.



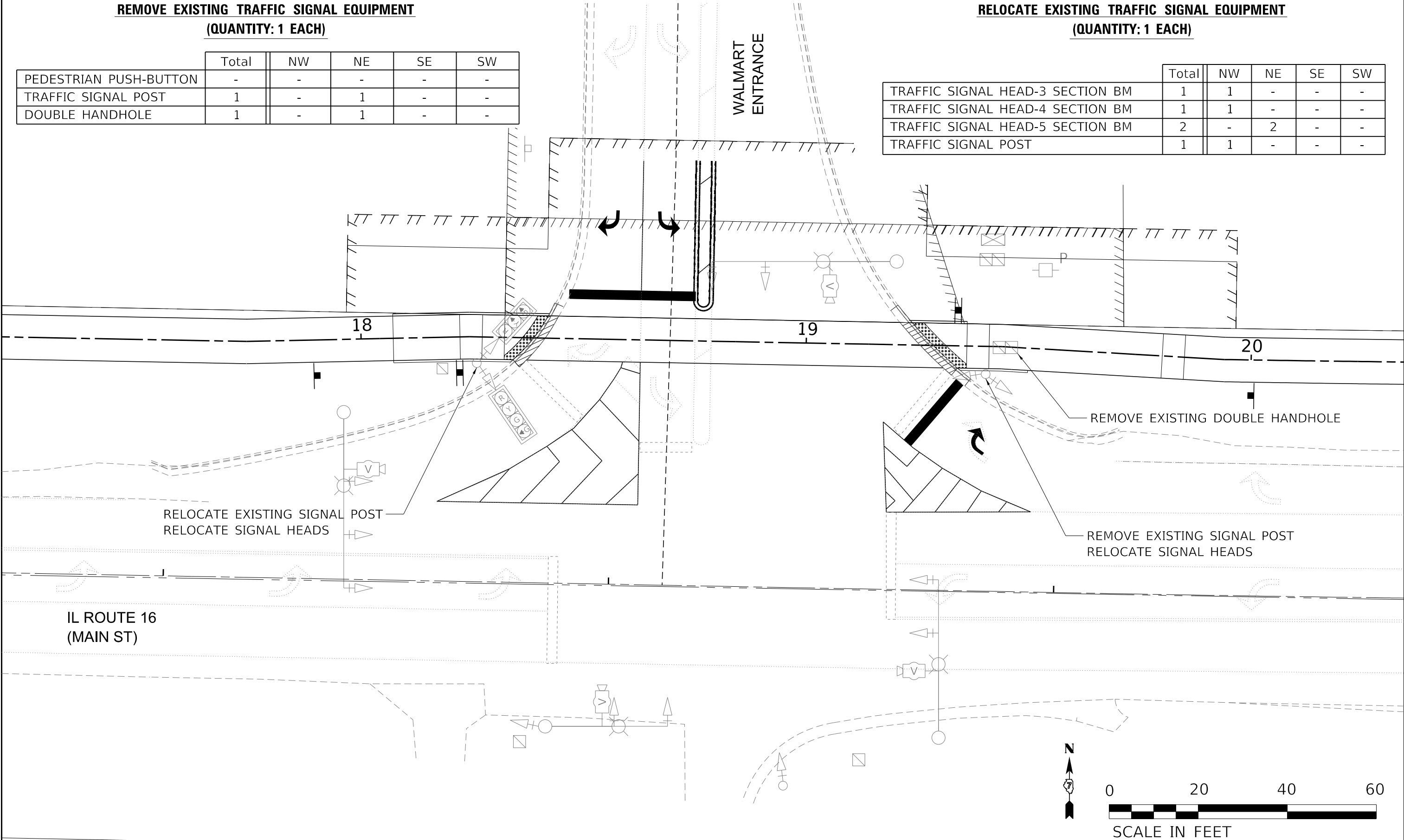
FILE NAME = 190404-shi-utility-walmart.dgn		USER NAME = lmk		DESIGNED - N.A.H.		REVISED -		STATE OF ILLINOIS CITY OF SHELBYVILLE				INTERSECTION OF IL ROUTE 16 AT WALMART ENTRANCE EXISTING UTILITY LAYOUT					F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959 HAMPSON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		PLOT SCALE = \$SCALE\$		CHECKED - J.W.F.		REVISED -						725	21-00060-01-BT	SHELBY	147	40					
		PLOT DATE = 2/24/2025		CHECKED - X.X.X		REVISED -						CONTRACT NO. 95940									
												SHEET NO. 3 OF 13 SHEETS									
														C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)							

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
(QUANTITY: 1 EACH)

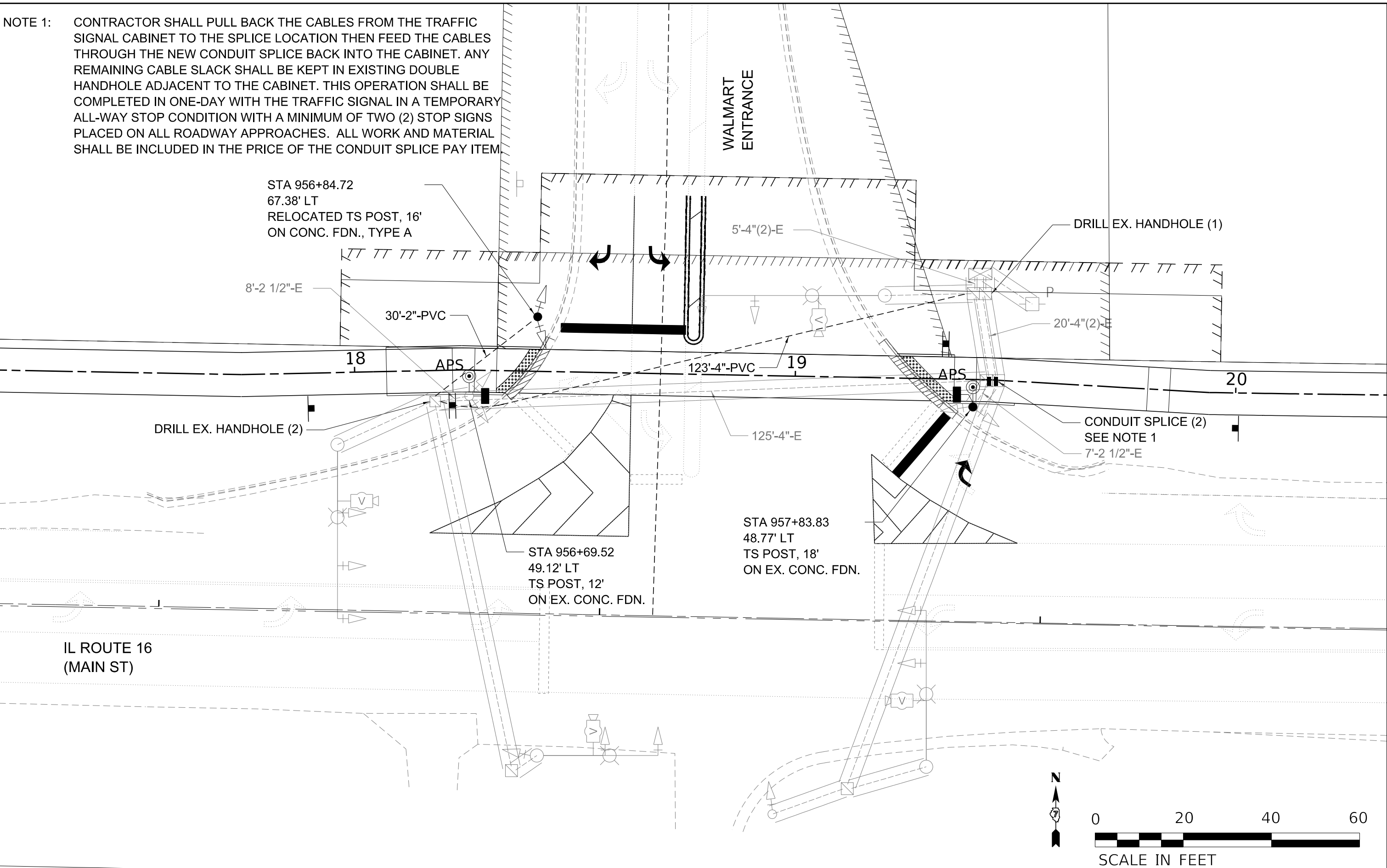
	Total	NW	NE	SE	SW
PEDESTRIAN PUSH-BUTTON	-	-	-	-	-
TRAFFIC SIGNAL POST	1	-	1	-	-
DOUBLE HANDHOLE	1	-	1	-	-

RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
(QUANTITY: 1 EACH)

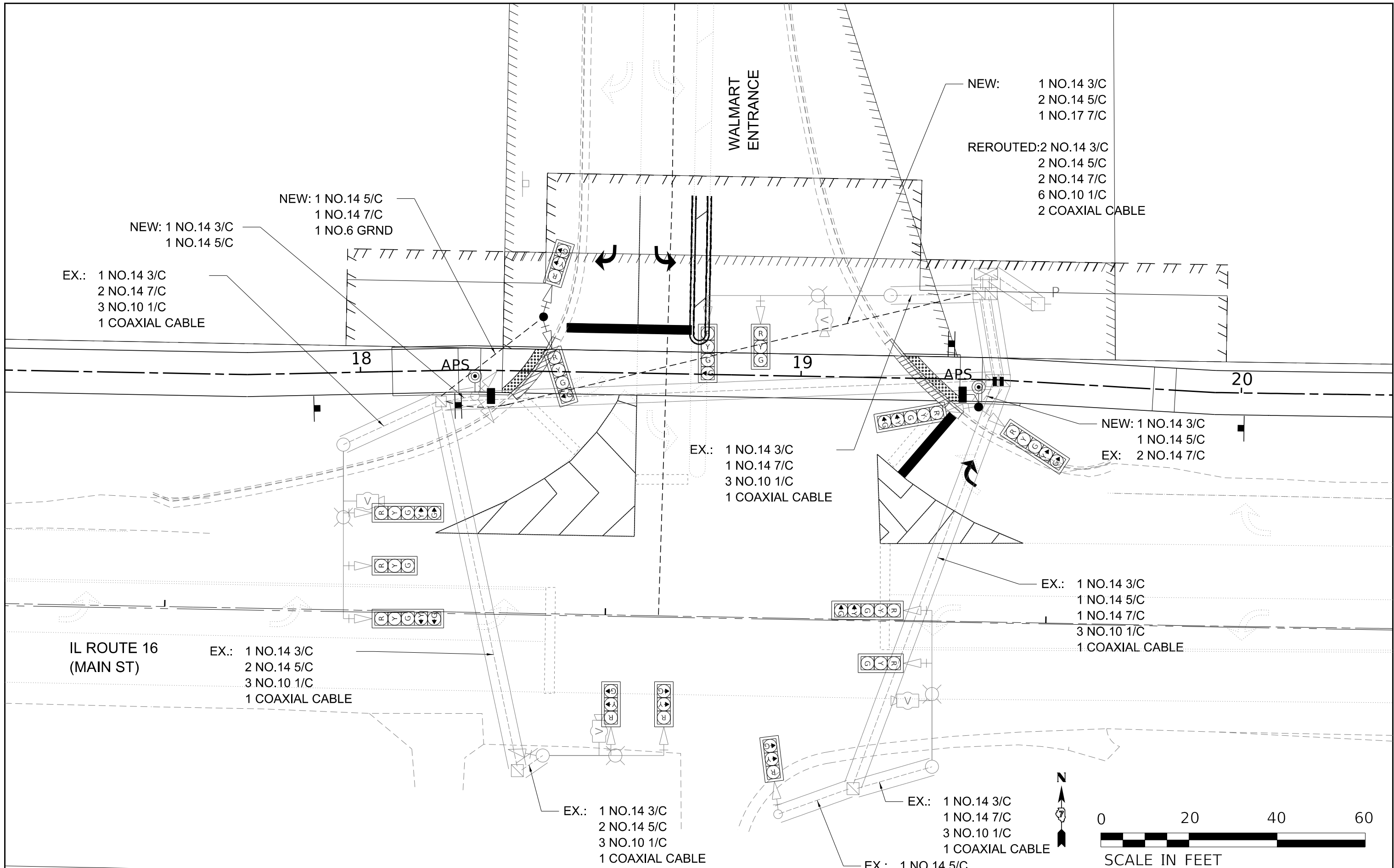
	Total	NW	NE	SE	SW
TRAFFIC SIGNAL HEAD-3 SECTION BM	1	1	-	-	-
TRAFFIC SIGNAL HEAD-4 SECTION BM	1	1	-	-	-
TRAFFIC SIGNAL HEAD-5 SECTION BM	2	-	2	-	-
TRAFFIC SIGNAL POST	1	1	-	-	-



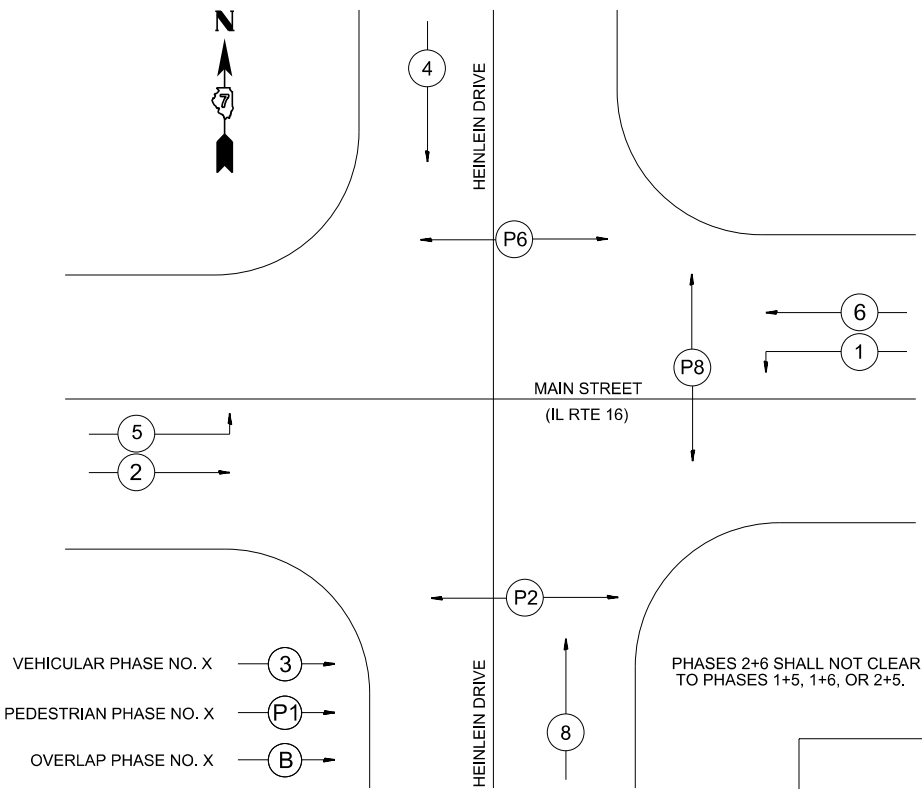
NOTE 1: CONTRACTOR SHALL PULL BACK THE CABLES FROM THE TRAFFIC SIGNAL CABINET TO THE SPLICE LOCATION THEN FEED THE CABLES THROUGH THE NEW CONDUIT SPLICE BACK INTO THE CABINET. ANY REMAINING CABLE SLACK SHALL BE KEPT IN EXISTING DOUBLE HANDHOLE ADJACENT TO THE CABINET. THIS OPERATION SHALL BE COMPLETED IN ONE-DAY WITH THE TRAFFIC SIGNAL IN A TEMPORARY ALL-WAY STOP CONDITION WITH A MINIMUM OF TWO (2) STOP SIGNS PLACED ON ALL ROADWAY APPROACHES. ALL WORK AND MATERIAL SHALL BE INCLUDED IN THE PRICE OF THE CONDUIT SPLICE PAY ITEM



FILE NAME = 190404-shi-signal-walmart.dgn		USER NAME = tlmk		DESIGNED - N.A.H.		REVISED -		STATE OF ILLINOIS CITY OF SHELBYVILLE	INTERSECTION OF IL ROUTE 16 AT WALMART ENTRANCE SIGNAL LAYOUT				F.A.P.		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		PLOT SCALE = \$SCALE\$		CHECKED - J.W.F.		REVISED -			725		21-00060-01-BT		SHELBY		147		42					
PLOT DATE = 2/24/2025				DRAWN - N.A.H.															CONTRACT NO. 95940			
				CHECKED - X.X.X		REVISED -													C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)			



FILE NAME = 190404-shl-cable-walmart.dgn		USER NAME = ltmk		DESIGNED - N.A.H.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE		INTERSECTION OF IL ROUTE 16 AT WALMART ENTRANCE CABLE LAYOUT		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959		CHECKED - J.W.F.	REVISED -					725	21-00060-01-BT	SHELBY	147	43
PLOT SCALE = \$SCALE\$		DRAWN - N.A.H.		REVIS	ED -					CONTRACT NO. 95940				
PLOT DATE = 2/24/2025		CHECKED - X.X.X		REVIS	ED -					C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)				

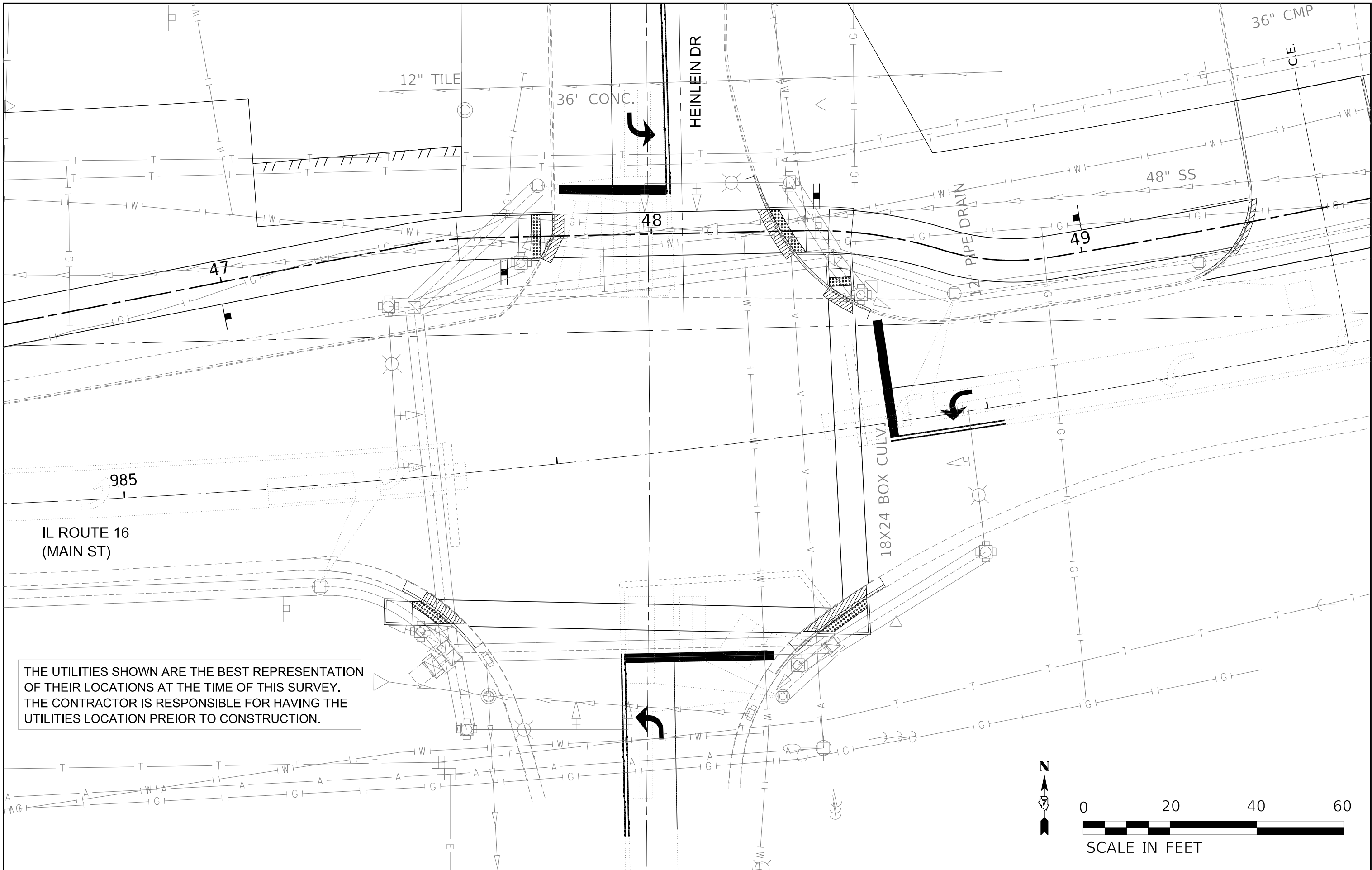


PHASE DESIGNATION DIAGRAM

RING 1:	1	2	4
RING 2:	5	6	8

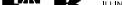
SEQUENCE OF OPERATIONS

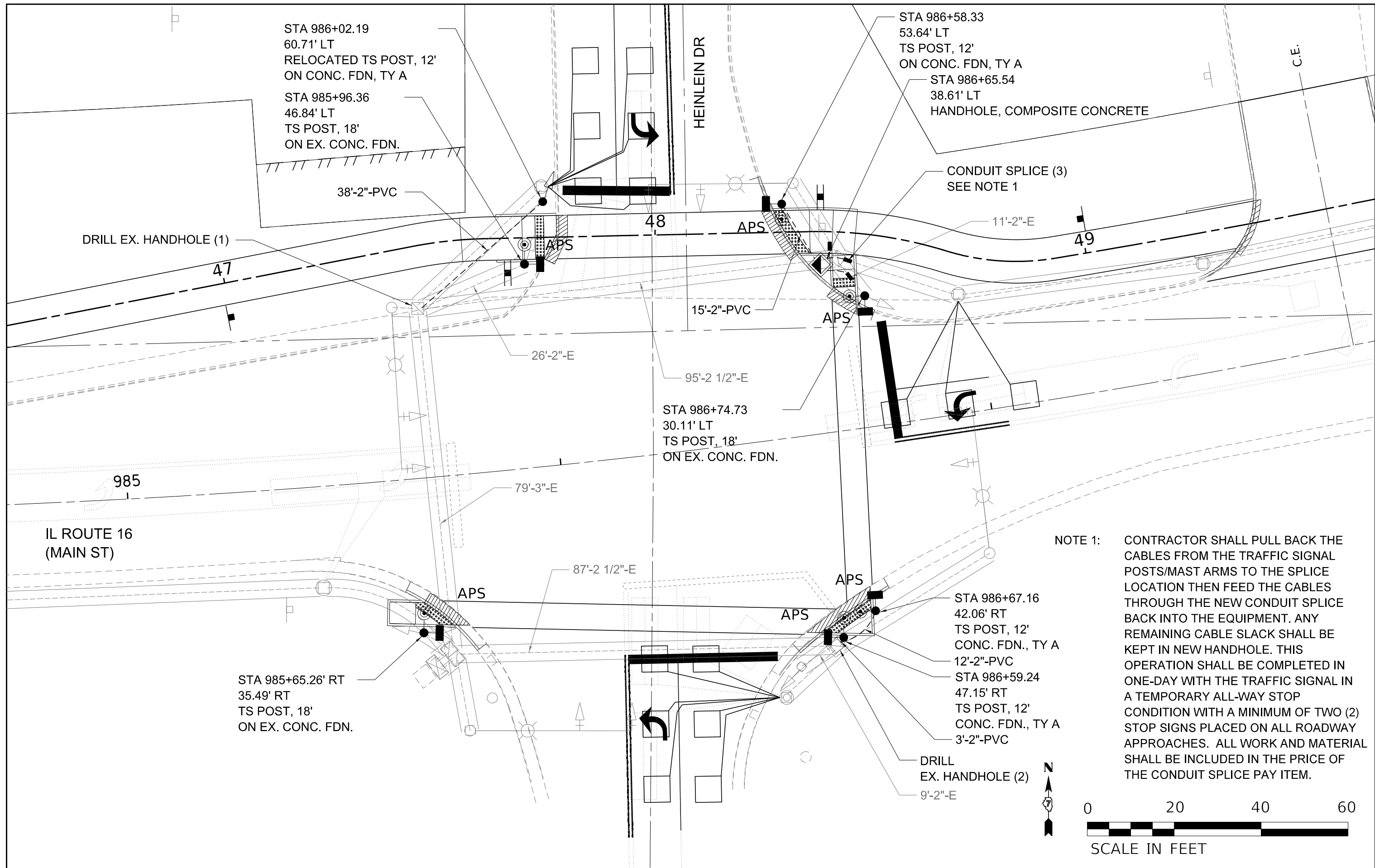
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	68
HANDHOLE, COMPOSITE CONCRETE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	928
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1125
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 61C	FOOT	108
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	16
DRILL EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	6
DETECTOR LOOP, TYPE I	FOOT	691
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1000
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
CONDUIT SPLICE	EACH	3
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6



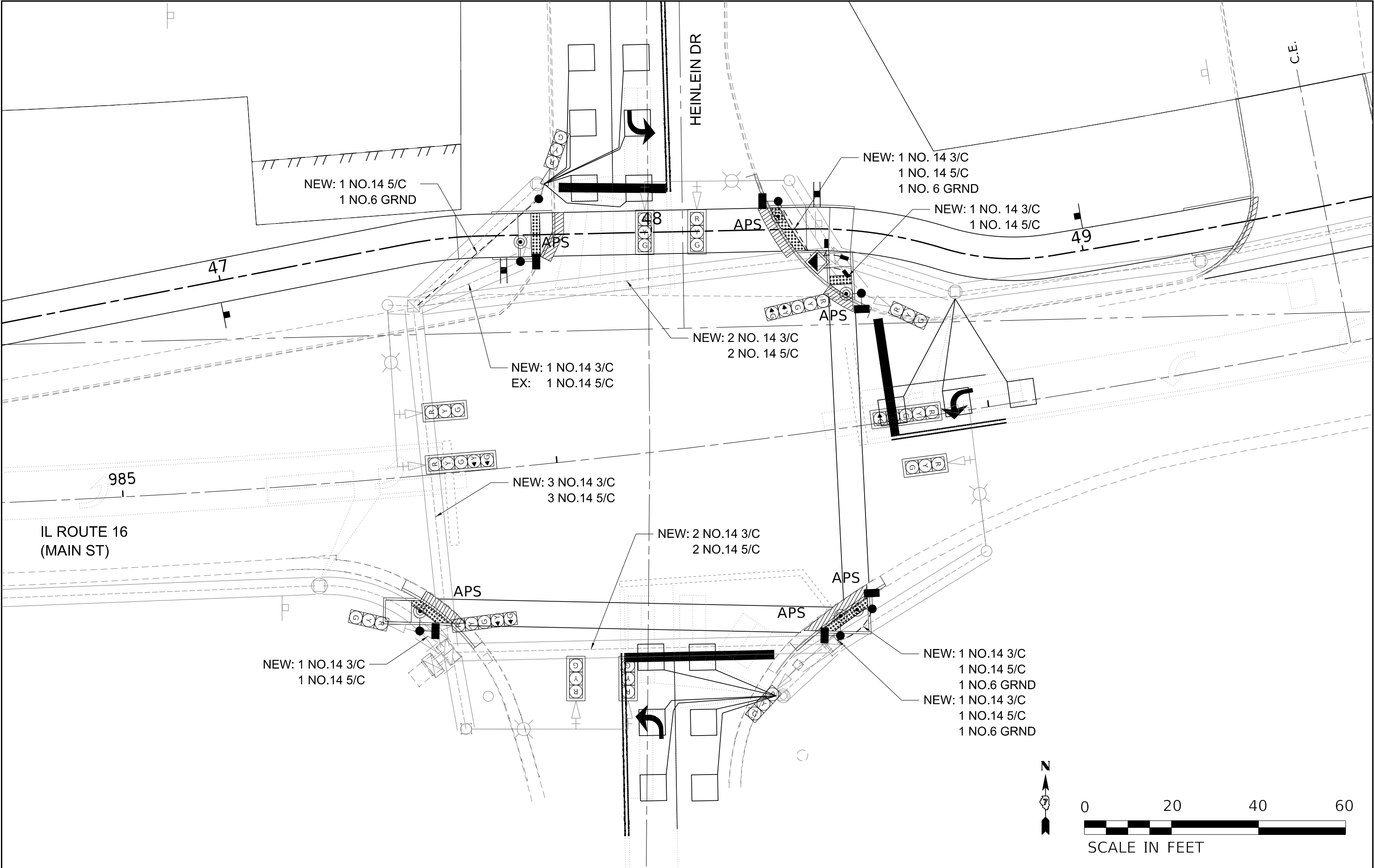
THE UTILITIES SHOWN ARE THE BEST REPRESENTATION
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THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE
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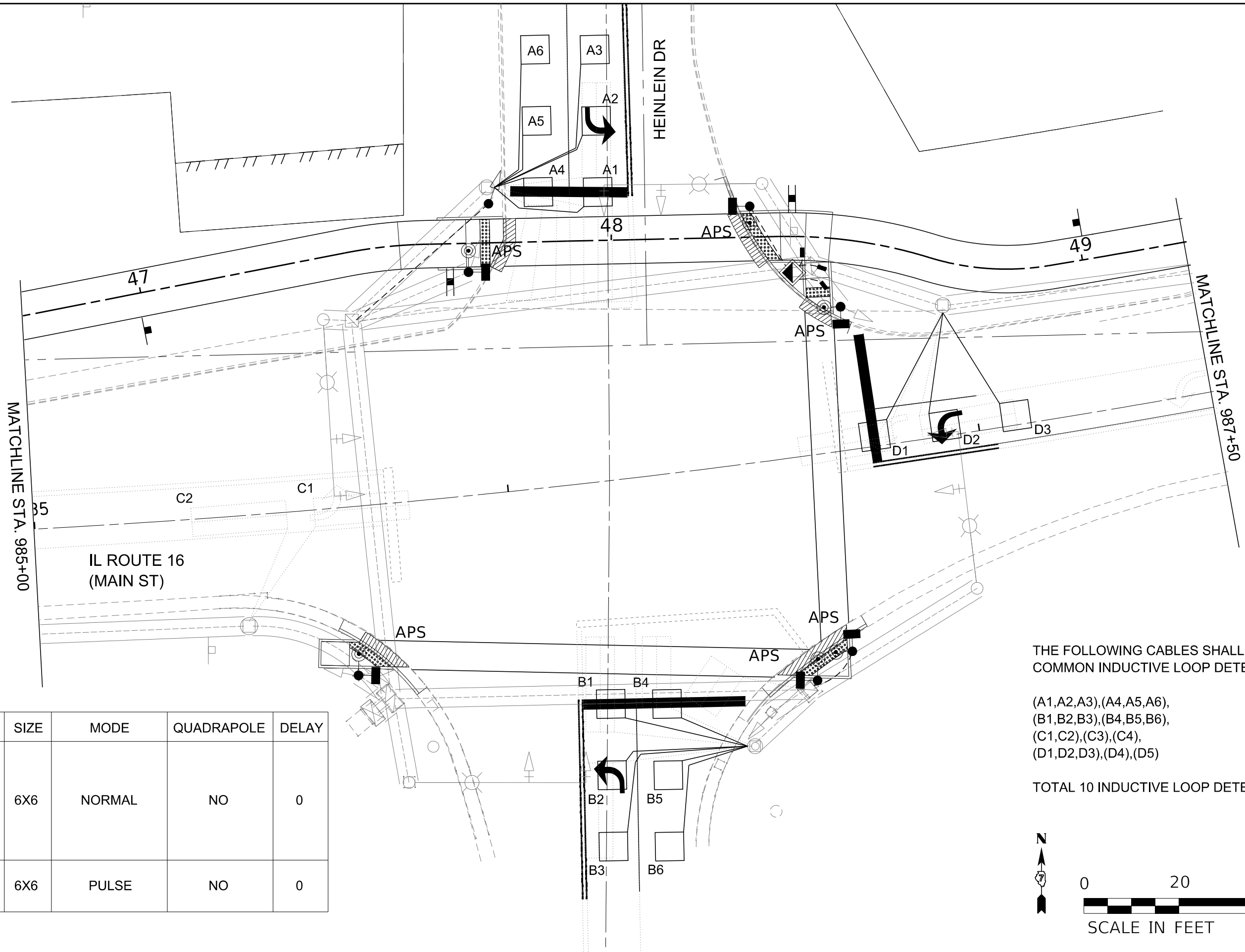
FILE NAME = 190404-shi-utility-heinlein.dgn		USER NAME = tlmk		DESIGNED = N.A.H.		REVISED =		STATE OF ILLINOIS CITY OF SHELBYVILLE		INTERSECTION OF IL ROUTE 16 AT HEINLEIN DRIVE EXISTING UTILITY LAYOUT					F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
 HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		PLOT SCALE = \$SCALE\$		CHECKED = J.W.F.		REVISED =									725	21-00060-01-BT	SHELBY	147	45
		PLOT DATE = 2/24/2025		CHECKED = X.X.X		REVISED =				CONTRACT NO. 95940									
										SHEET NO. 8 OF 13 SHEETS									
										C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)									



FILE NAME = 190404-sht-signals-heinlein.dgn		USER NAME = tlmk		DESIGNED - N.A.H.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE		INTERSECTION OF IL ROUTE 16 AT HEINLEIN DRIVE SIGNAL LAYOUT		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - J.W.F.	REVISED -					725	21-00060-01-BT	SHELBY	147	47
PLOT SCALE = \$SCALE\$		DRAWN - N.A.H.		REVIS	ED -					CONTRACT NO. 95940				
PLOT DATE = 2/24/2025		CHECKED - X.X.X		REVISED -						C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)				



FILE NAME = 190404-shl-cable-heinlein.dgn		USER NAME = ltmk		DESIGNED - N.A.H.		REVISED -		STATE OF ILLINOIS CITY OF SHELBYVILLE				INTERSECTION OF IL ROUTE 16 AT HEINLEIN DRIVE CABLE LAYOUT				F.A.P.		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		CHECKED - J.W.F.		REVISED -		725										21-00060-01-BT		SHELBY		147		48			
		PLOT SCALE = \$SCALE\$		DRAWN - N.A.H.		REVISED -						CONTRACT NO. 95940													
PLOT DATE = 2/24/2025		CHECKED - X.X.X		REVISED -		SHEET NO. 11 OF 13 SHEETS								C-97-019-22		ILLINOIS		FED. AID PROJECT V44K(216)							



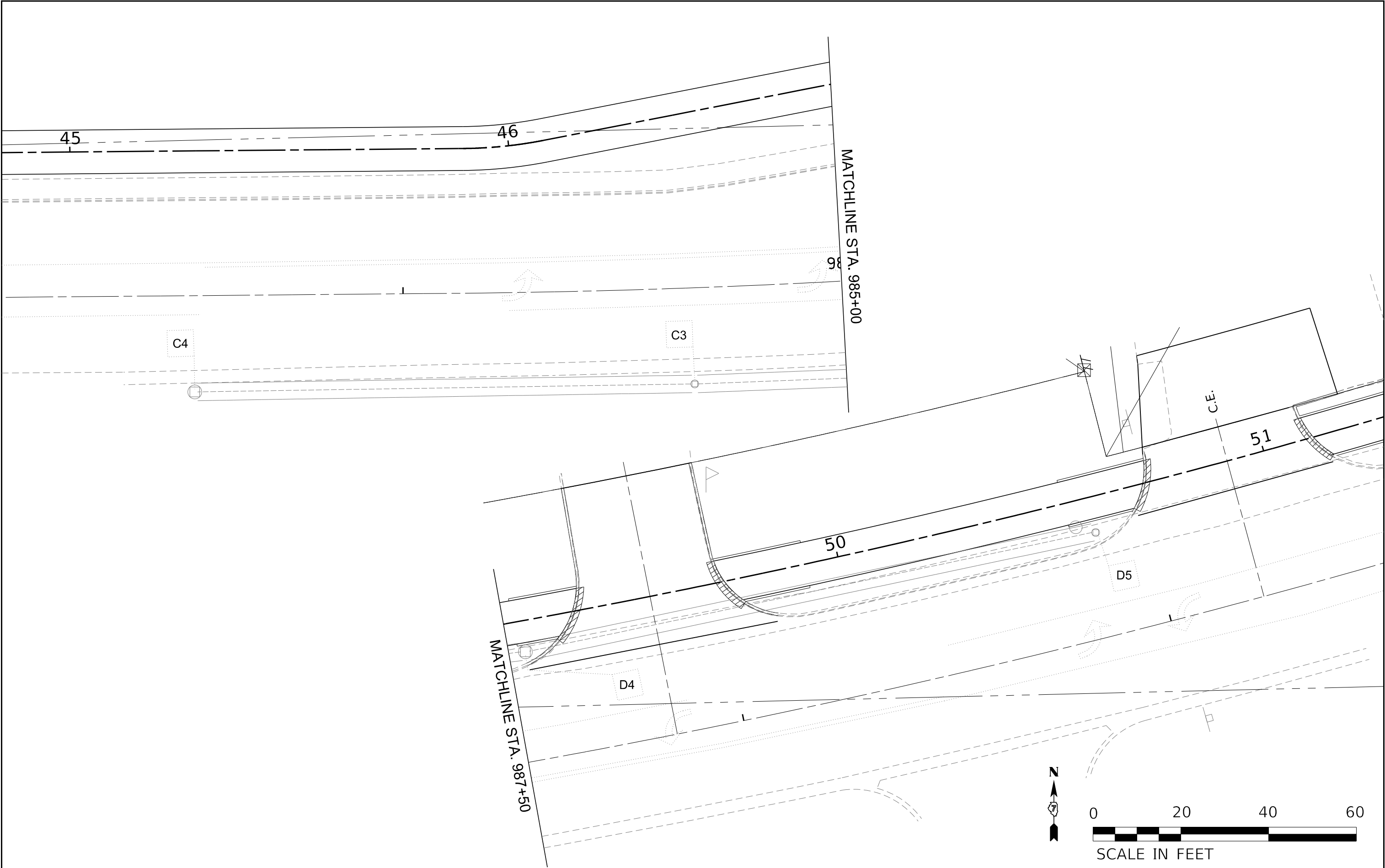
LOOP	SIZE	MODE	QUADRAPOLE	DELAY
A1,A2,A3, A4,A5,A6, B1,B2,B3, B4,B5,B6, C1,C2 D1,D2,D3	6X6	NORMAL	NO	0
C3,C4, D4,D5	6X6	PULSE	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO
COMMON INDUCTIVE LOOP DETECTOR:

(A1,A2,A3),(A4,A5,A6),
(B1,B2,B3),(B4,B5,B6),
(C1,C2),(C3),(C4),
(D1,D2,D3),(D4),(D5)

TOTAL 10 INDUCTIVE LOOP DETECTORS





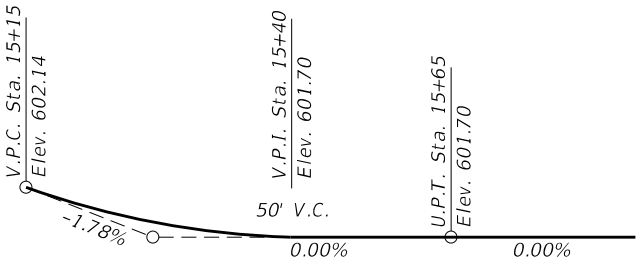
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HLR HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959		CHECKED - J.W.F.	REVISED -	725		21-00060-01-BT	SHELBY	147	50					
		PLOT SCALE = \$SCALE\$	DRAWN - N.A.H.	CONTRACT NO. 95940										
		PLOT DATE = 2/24/2025	CHECKED - X.X.X	C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)										
		SHEET NO. 13 OF 13 SHEETS												

GENERAL NOTES

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Precast Box Sections shall conform to the requirements of AASHTO M259. It shall be the responsibility of the Contractor to divert flow during construction in order to keep construction areas free of water. The method of water diversion shall subject to the approval of the Engineer.
All costs associated with the material and labor for the design, fabrication, delivery, and installation of the precast headwalls and wingwalls shall be included in the cost of Precast Concrete Box Culverts 3' x 3'.

INDEX OF STRUCTURE SHEETS

- 1. General Elevation
- 2. General Plan
- 3. Culvert Details



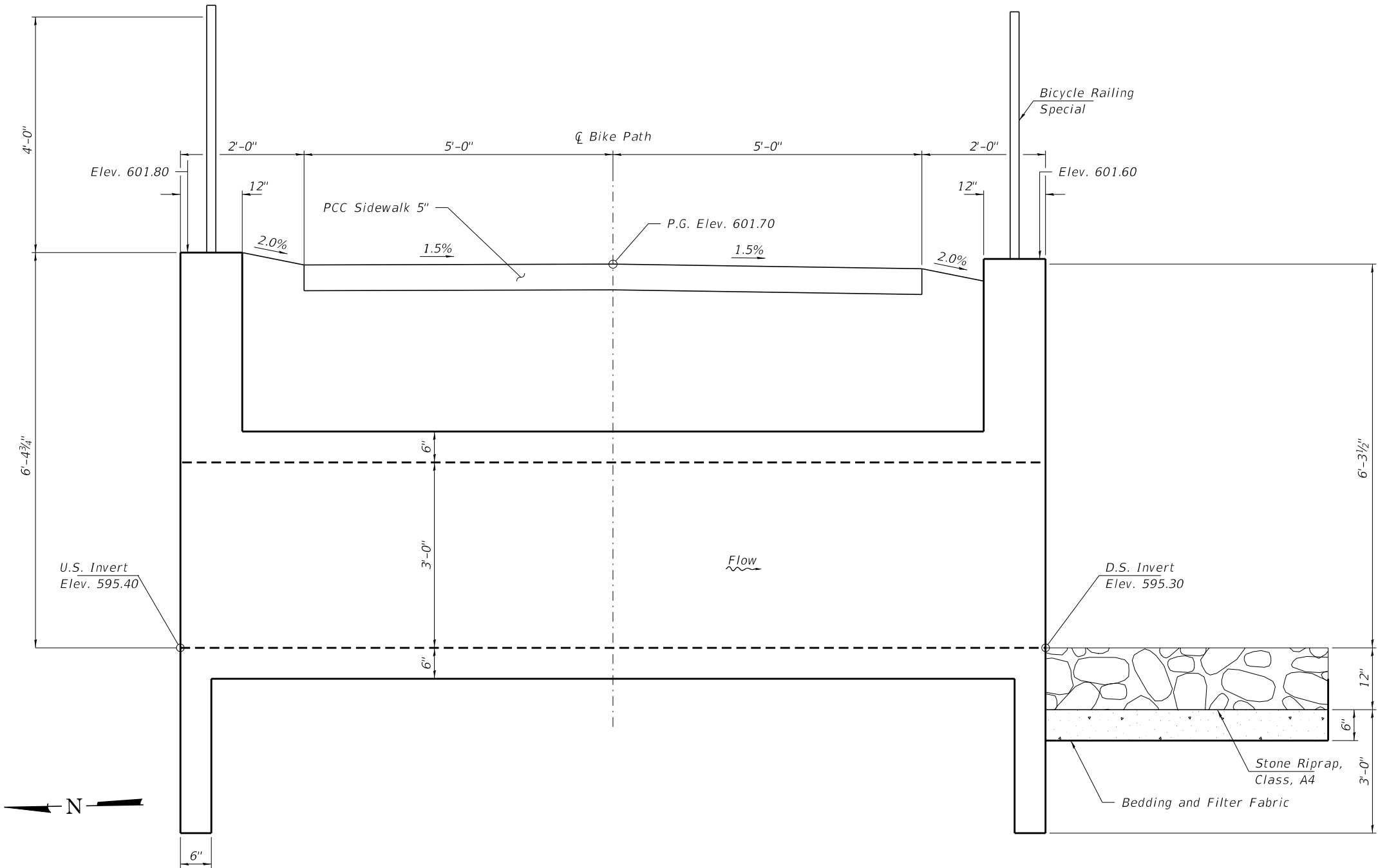
PROFILE GRADE
F.A.P. 325

Precast Box Culvert Schedule (ASTM C 1577)

Station	Size (Span x Height)	Skew	Design Fill (ft.)		PGE backfill required
			Edge of shldr. (minimum)	Maximum	
15+70	3'x3'	0°	2.7'	2.9'	Yes

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Ton	9
Stone Riprap, Class A4	Ton	29
Bicycle Railing, Special	Foot	120
Concrete Structures	Cu. Yd.	0.2
Reinforcement Bars, Epoxy Coated	Pound	28
Expansion Bolts 3/4 Inch X 15 Inch	Each	16
Precast Concrete Box Culverts 3'x3'	Foot	14
Membrane Waterproofing System for Buried Struct.	Sq. Yd.	9
Filter Fabric	Sq. Yd.	38



DESIGN SPECIFICATIONS

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

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

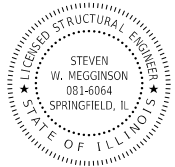
DESIGN STRESSES

FIELD UNITS

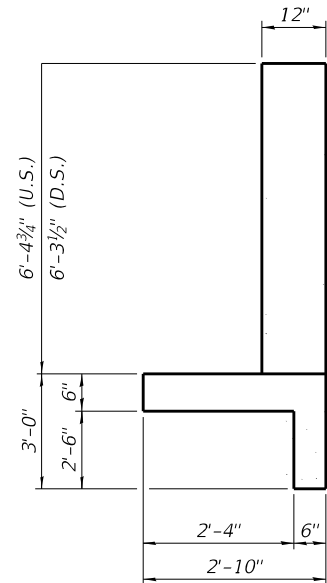
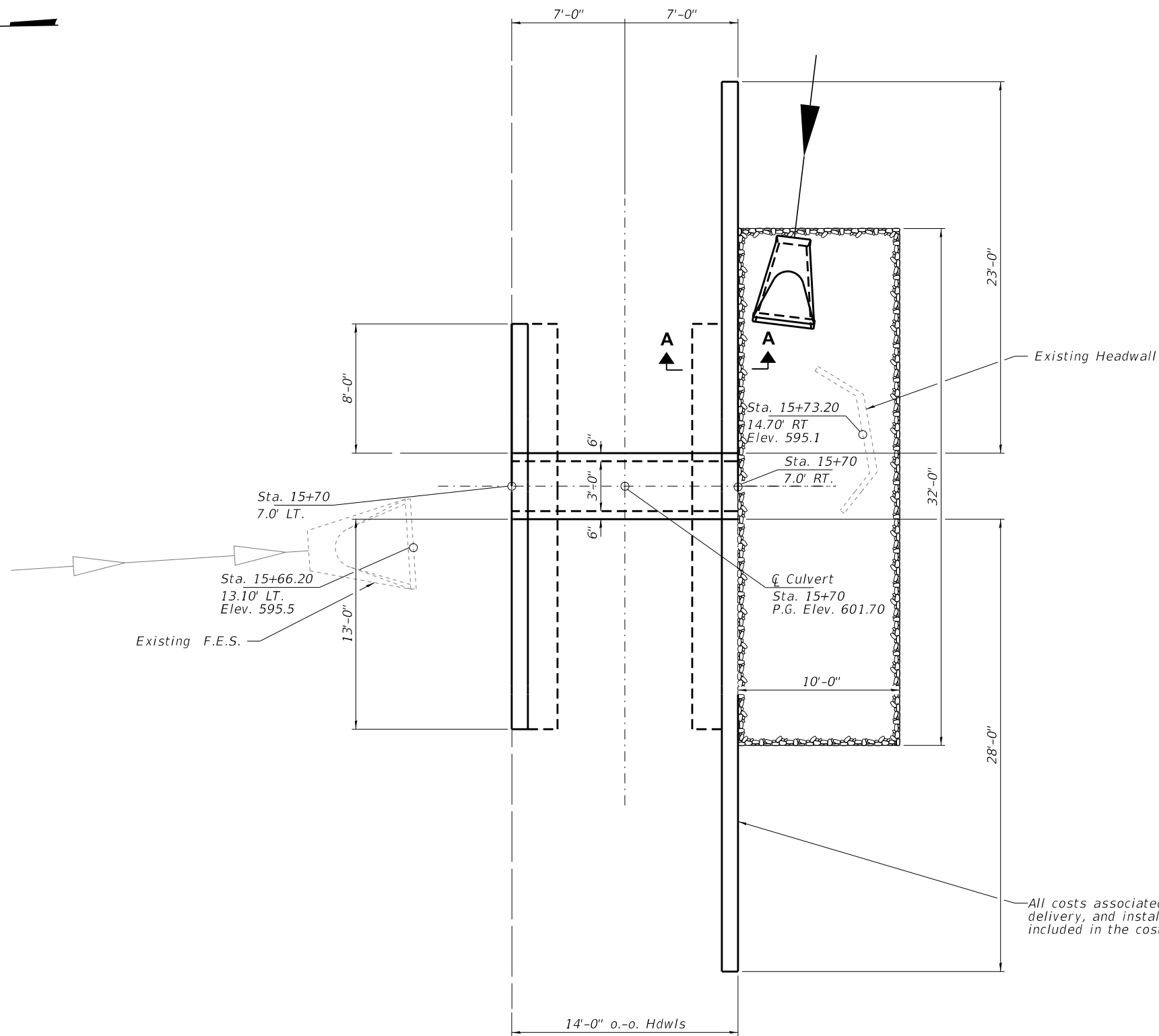
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

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."

Signature: Steven W. Megginson
Date: 01/24/2025
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



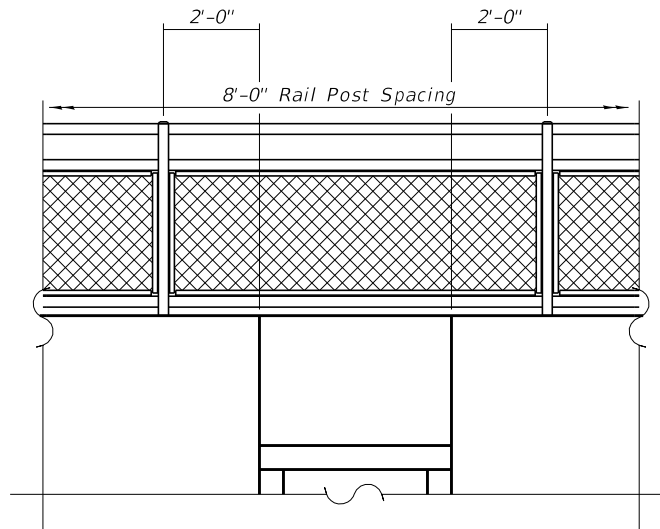
Expires 11-30-2026



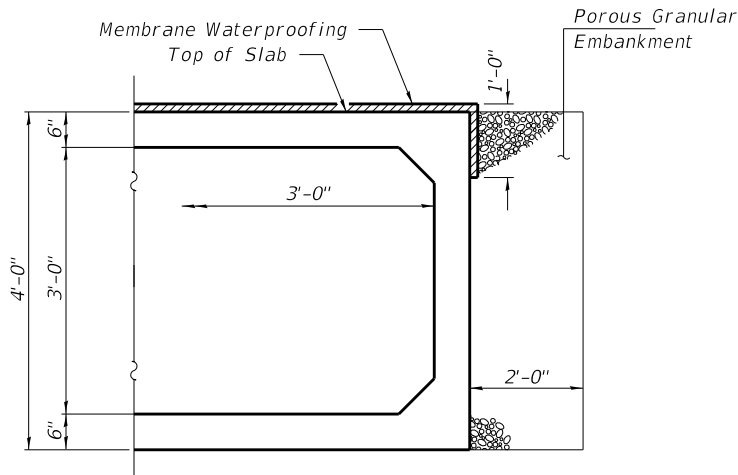
All costs associated with the material and labor for the design, fabrication, delivery, and installation of the precast headwalls and wingwalls shall be included in the cost of Precast Concrete Box Culverts 3' x 3'.

PLAN

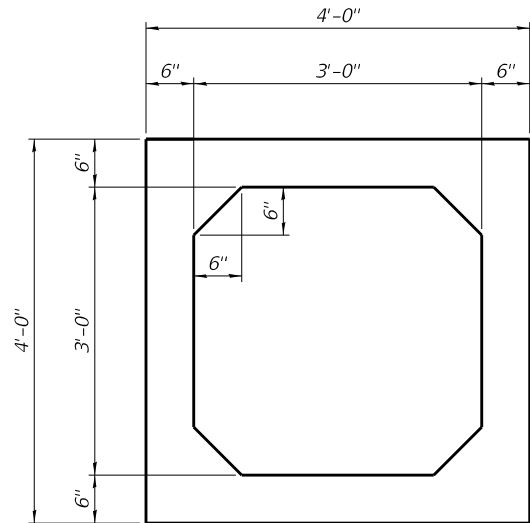
FILE NAME = 190404-shi-culvert.dgn		USER NAME = ltmk		DESIGNED - R.P.P.		REVISED -		STATE OF ILLINOIS CITY OF SHELBYVILLE										GENERAL PLAN & ELEVATION										F.A.P.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
HAMPSON, LENZINI AND RENWICK, INC.				CHECKED - X.X.X.		REVISED -																						325		21-00060-01-BT		SHELBY		147		52	
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		PLOT SCALE =		DRAWN - D.M.F.		REVISED -																															
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959		PLOT DATE = 2/24/2025		CHECKED - X.X.X.		REVISED -																															
		SHEET NO. 2 OF 5 SHEETS										C-97-019-22		ILLINOIS		FED. AID PROJECT V44K(216)																					



ELEVATION
Showing Rail Post Spaces
Bicycle Railing, Special Detail

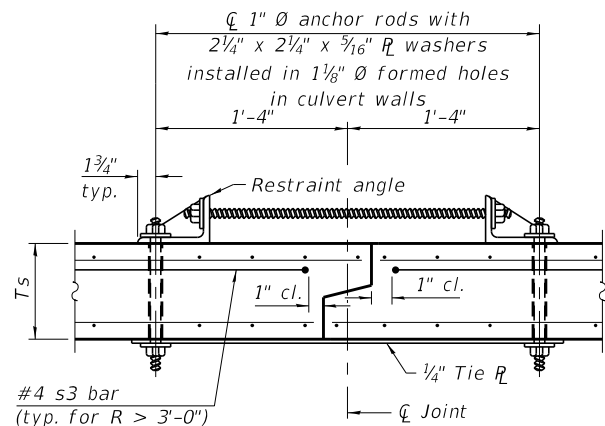


WATERPROOFING DETAIL-BARREL

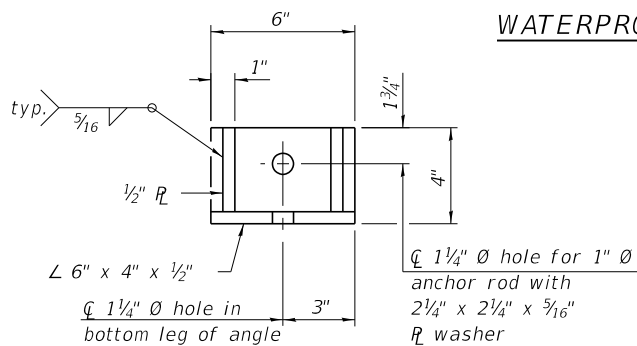


SECTION THRU PRECAST BOX

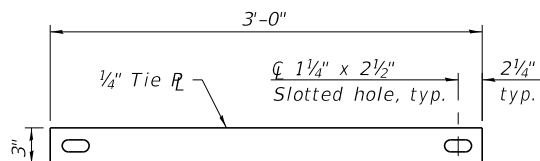
CULVERT TIES



SECTION F-F
(Showing culvert tie details)



RESTRAINT ANGLE DETAIL

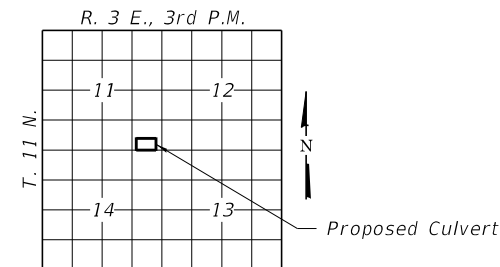


TIE PLATE DETAIL

Notes:

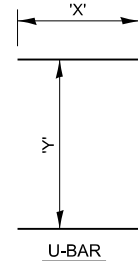
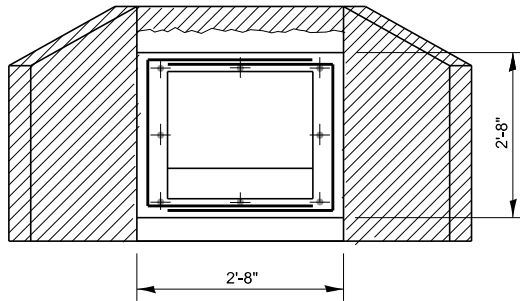
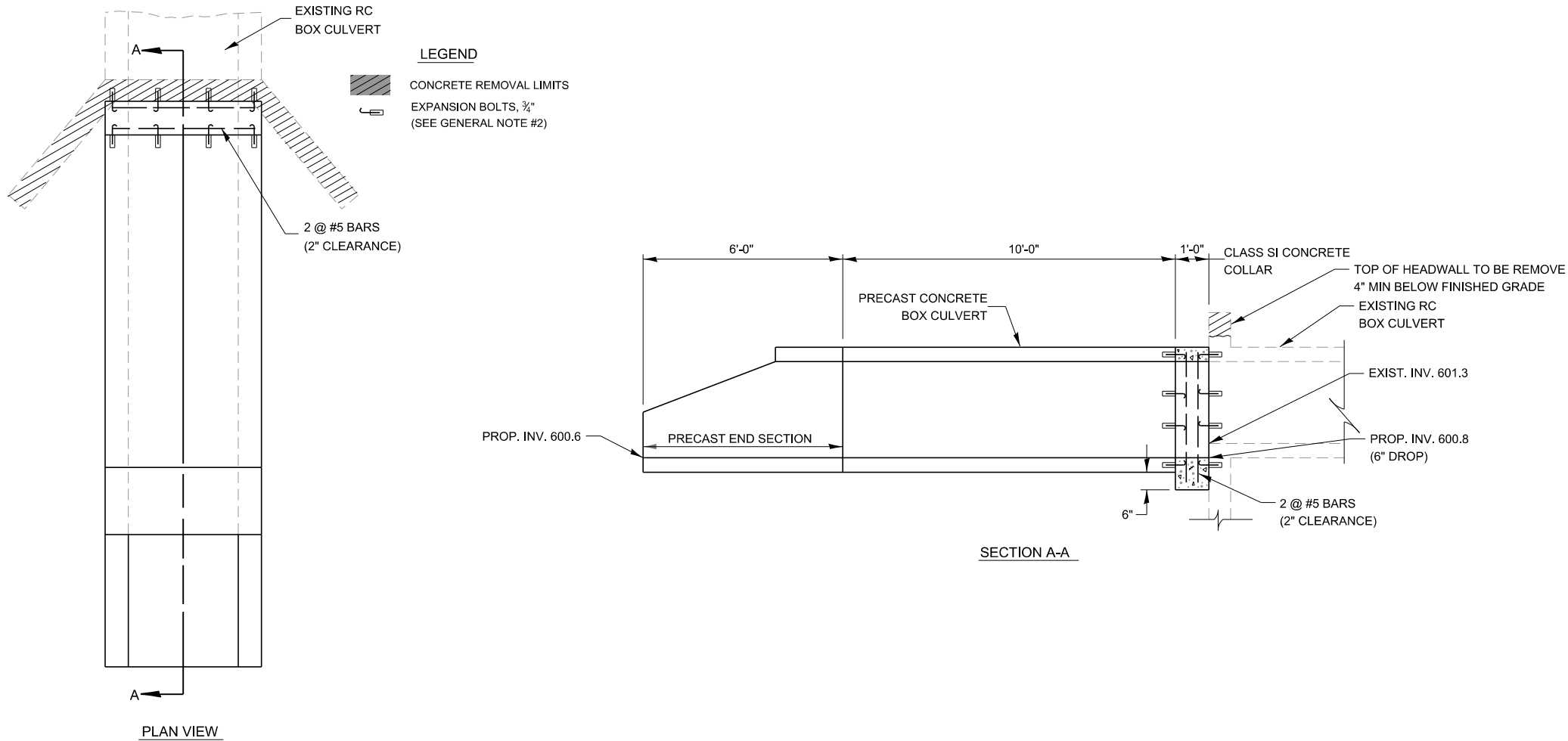
1" $\varnothing$ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4"x2 1/4"x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

Cost included with Precast Concrete Box Culverts.



LOCATION SKETCH

FILE NAME = 190404-shl-culvert.dgn	USER NAME = tlmk	DESIGNED - R.P.P.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	CULVERT DETAILS STATION 15+70	SHEET NO. 3 OF 5 SHEETS	F.A.P.	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	PLOT SCALE =	CHECKED - X.X.X.	REVISED -				325	21-00060-01-BT	SHELBY	147	53
PLOT DATE = 2/24/2025		DRAWN - D.M.F.	REVISED -				CONTRACT NO. 95940				
		CHECKED - X.X.X.	REVISED -				C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)		



LOCATION	EXISTING CULVERT SIZE FT x FT	PRECAST CONCRETE 2' x 2' BOX CULV FT	U-BAR		CONC STRUCTURE CU YD	REINFORCEMENT BARS EPOXY COATED POUND	3/4\"/>
			'X' IN	'Y' IN			
LT. 48+50	2' x 1.5'	10	18	28	0.2	28	16

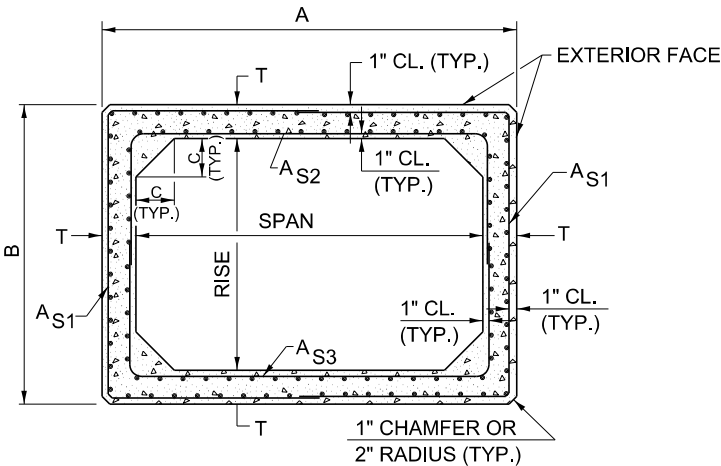
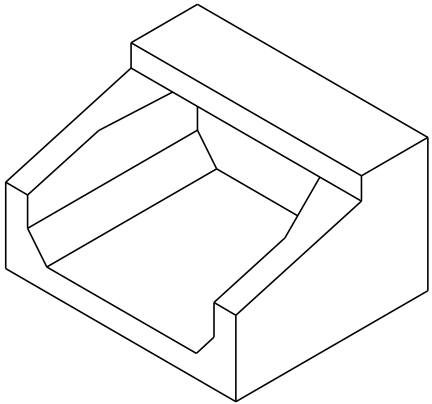
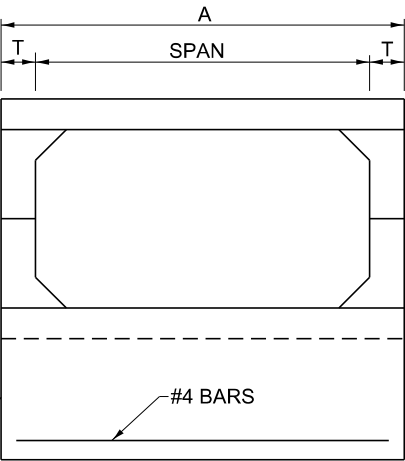
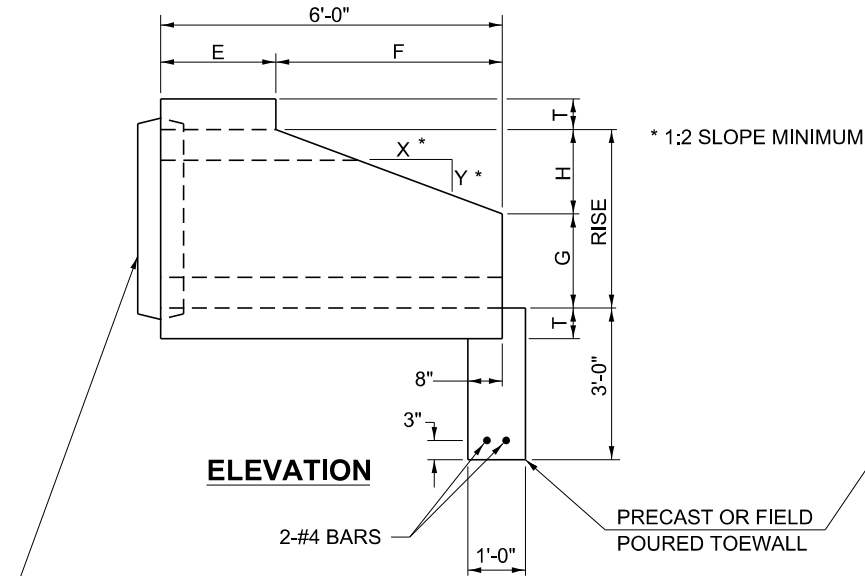
- 1.) CLASS SI CONCRETE SHALL BE USED THROUGHOUT. THE INSIDE DIMENSIONS OF THE CLASS SI CONCRETE COLLAR SHALL BE THE SAME AS THE NEW PRECAST CONCRETE BOX CULVERT.
- 2.) EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4\"/>

COLLAR DETAIL (PRECAST BOX CULVERT EXTENSION OF BOX CULVERT)

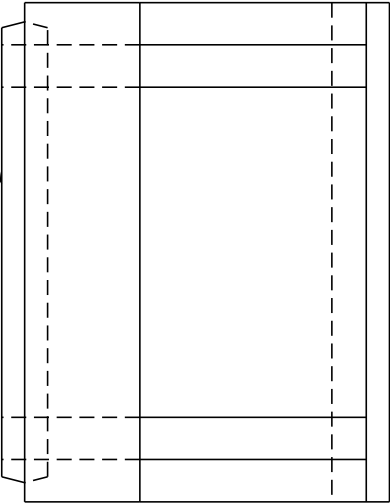
DIMENSIONS **

SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)	E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	SLOPE (Y:X)
2' X 2'	4	2-8	2-8	4	3-0	3-0	1-0	1-0	1:3
3' X 2'	4	3-8	2-8	4	3-0	3-0	1-0	1-0	1:3
3' X 3'	4	3-8	3-8	4	2-0	4-0	1-8	1-4	1:3
4' X 2'	5	4-10	2-10	5	3-0	3-0	1-0	1-0	1:3
4' X 3'	5	4-10	3-10	5	2-0	4-0	1-8	1-4	1:3
4' X 4'	5	4-10	4-10	5	2-0	4-0	2-0	2-0	1:2
5' X 2'	6	6-0	3-0	6	3-0	3-0	1-0	1-0	1:3
5' X 3'	6	6-0	4-0	6	2-0	4-0	1-8	1-4	1:3
5' X 4'	6	6-0	5-0	6	2-0	4-0	2-0	2-0	1:2
5' X 5'	6	6-0	6-0	6					
6' X 2'	7	7-2	3-2	7	3-0	3-0	1-0	1-0	1:3
6' X 3'	7	7-2	4-2	7	2-0	4-0	1-8	1-4	1:3
6' X 4'	7	7-2	5-2	7	2-0	4-0	2-0	2-0	1:2
6' X 5'	7	7-2	6-2	7	2-0	4-0	3-0	2-0	1:2
6' X 6'	7	7-2	7-2	7	2-0	4-0	4-0	2-0	1:2
7' X 4'	8	8-4	5-4	8	2-0	4-0	2-0	2-0	1:2
7' X 5'	8	8-4	6-4	8	2-0	4-0	3-0	2-0	1:2
7' X 6'	8	8-4	7-4	8	2-0	4-0	4-0	2-0	1:2
7' X 7'	8	8-4	8-4	8	2-0	4-0	5-0	2-0	1:2
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8' X 5'	8	9-4	6-4	8	2-0	4-0	3-0	2-0	1:2
8' X 6'	8	9-4	7-4	8	2-0	4-0	4-0	2-0	1:2
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9' X 5'	9	10-6	6-6	9	2-0	4-0	3-0	2-0	1:2
9' X 6'	9	10-6	7-6	9	2-0	4-0	4-0	2-0	1:2
9' X 7'	9	10-6	8-6	9	2-0	4-0	5-0	2-0	1:2
9' X 8'	9	10-6	9-6	9	2-0	4-0	6-0	2-0	1:2
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10' X 5'	10	11-8	6-8	10	2-0	4-0	3-0	2-0	1:2
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10' X 7'	10	11-8	8-8	10	2-0	4-0	5-0	2-0	1:2
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10' X 9'	10	11-8	10-8	10	2-0	4-0	7-0	2-0	1:2
10' X 10'	10	11-8	11-8	10	2-0	4-0	8-0	2-0	1:2
11' X 4'	11	12-10	5-10	11	2-0	4-0	2-0	2-0	1:2
11' X 6'	11	12-10	7-10	11	2-0	4-0	4-0	2-0	1:2
11' X 8'	11	12-10	9-10	11	2-0	4-0	6-0	2-0	1:2
11' X 10'	11	12-10	11-10	11	2-0	4-0	8-0	2-0	1:2
11' X 11'	11	12-10	12-10	11	2-0	4-0	9-0	2-0	1:2
12' X 4'	12	14-0	6-0	12	2-0	4-0	2-0	2-0	1:2
12' X 6'	12	14-0	8-0	12	2-0	4-0	4-0	2-0	1:2
12' X 8'	12	14-0	10-0	12	2-0	4-0	6-0	2-0	1:2
12' X 10'	12	14-0	12-0	12	2-0	4-0	8-0	2-0	1:2
12' X 12'	12	14-0	14-0	12	2-0	4-0	10-0	2-0	1:2

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.



END CONNECTION TO FIT PRECAST BOX CULVERT (BELL OR SPIGOT MAY BE OMITTED WHEN COLLARING TO AN EXISTING BOX OR HEADWALL)



LEGEND

"NON-STANDARD PRECAST CONCRETE BOX CULVERT (ASTM DESIGNS"; STANDARD PCBC (ASTM) DESIGNS ARE PREFERRED.

** NOTE:

THE DIMENSIONS INDICATED ARE FOR END SECTIONS THAT ARE TO BE USED WITH PRECAST BOX CULVERT SECTIONS DESIGNED FOR 2' OR MORE OF FILL (AASHTO M259). THE DIMENSIONS MAY BE MODIFIED FOR THE END SECTION TO BE COMPATIBLE WITH PRECAST CULVERT SECTIONS DESIGNED FOR LESS THAN 2' OF FILL (AASHTO M273).

GENERAL NOTES

SHOP DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 1042.03(b) OF THE STANDARD SPECIFICATIONS.

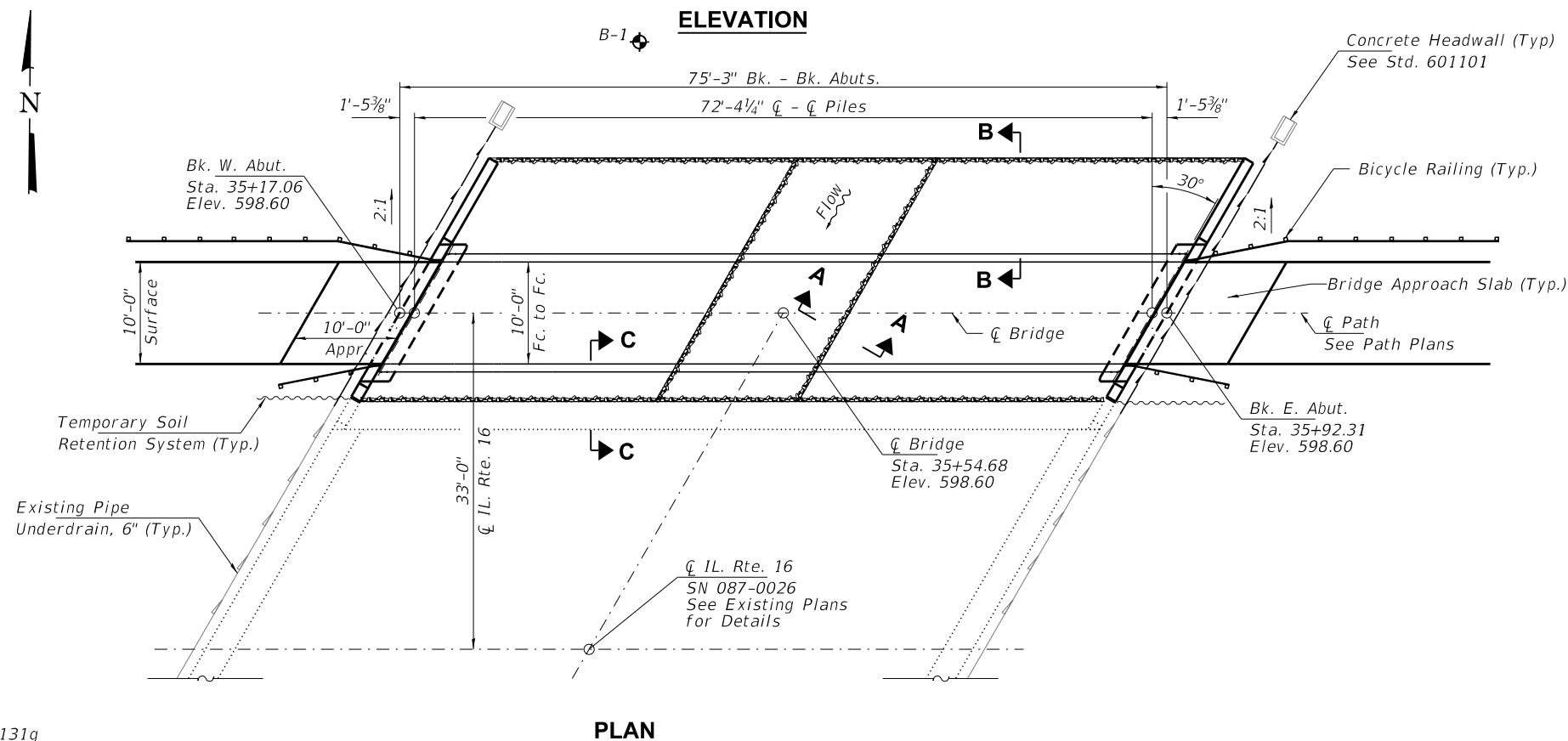
MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH SECTION 1055 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS AS1, AS2, & AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

Note:
See Sheet 2 of 9 for Bill of Materials,
General Notes, and Sections A-A, B-B, & C-C.

NAME PLATE
See Std. 515001



FILE NAME = 190404-shl-bridge.dgn	USER NAME = lrmk	DESIGNED - S.T.M.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	GENERAL PLAN & ELEVATION PEDESTRIAN BRIDGE	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM I.S.I.P.E. OF CORP. RA-000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			325	21-00060-01-BT	SHELBY	147	56	
	PLOT DATE = 2/24/2025	DRAWN - S.T.M.	REVISED -			CONTRACT NO. 95940					
		CHECKED - S.W.M.	REVISED -			SHEET NO. 1 OF 9 SHEETS					
						C-97-019-22 ILLINOIS FED. AID PROJECT V44K(216)					

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Any existing riprap that will require removal due to the construction of the proposed abutments shall be removed, stockpiled within right of way, and replaced where required or at the discretion of the Engineer. The cost of this will be included into Channel Excavation.

Excavation required to construct the abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

The substructure is designed per AASHTO LRFD and based on the assumed truss loadings shown in the Bridge Span Reaction Table.

Design loading shall be according to the Special Provision for Pedestrian Truss Superstructure.

Bearing seat elevations and back wall dimensions are subject to revision based on the approved pedestrian truss superstructure shop drawings. Contractor shall verify all dimensions and elevations with final shop drawings.

The truss manufacturer shall provide the reinforced concrete deck design. The concrete deck shall utilize stay-in-place galvanized forms. Reinforcement shall be epoxy coated. The Contractor shall place the concrete deck after the truss is set. Cost included with Pedestrian Truss Superstructure.

Anchor Bolts shall be included in the cost of Pedestrian Truss Superstructure.

Concrete Sealer shall be applied to the bearing seat of the abutment cap, the front face of the backwall, wingwall, and abutment cap.

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

BRIDGE SPAN REACTION TABLE

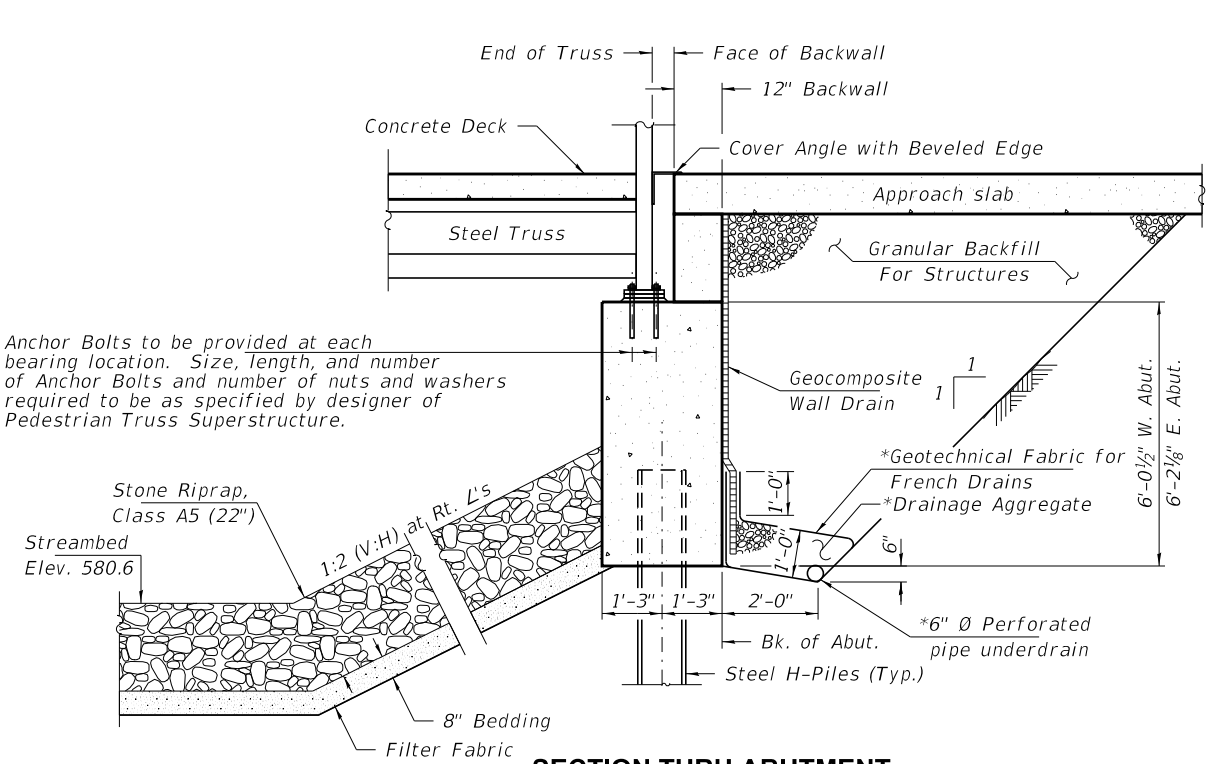
Load	P (Lbs.)	H (Lbs.)	L (Lbs.)
Dead	16,975	-	-
Uniform Live	16,350	-	-
Vehicle	5,000	-	-
Wind	2,990±	8,460	-
Wind Uplift	Windward	-6,600	-
(20 PSF)	Leeward	-2,200	-
Thermal	-	-	2,550

"P" = Vertical load at each base plate (4 total)
"H" = Horizontal load each footing (2 total)
"L" = Longitudinal load each base plate (4 total)
"±" - Downward Load
"-" - Upward Load

Note:
Reactions shown are due to service loads. Designer shall combine reactions per governing design code as required.

TOTAL BILL OF MATERIAL

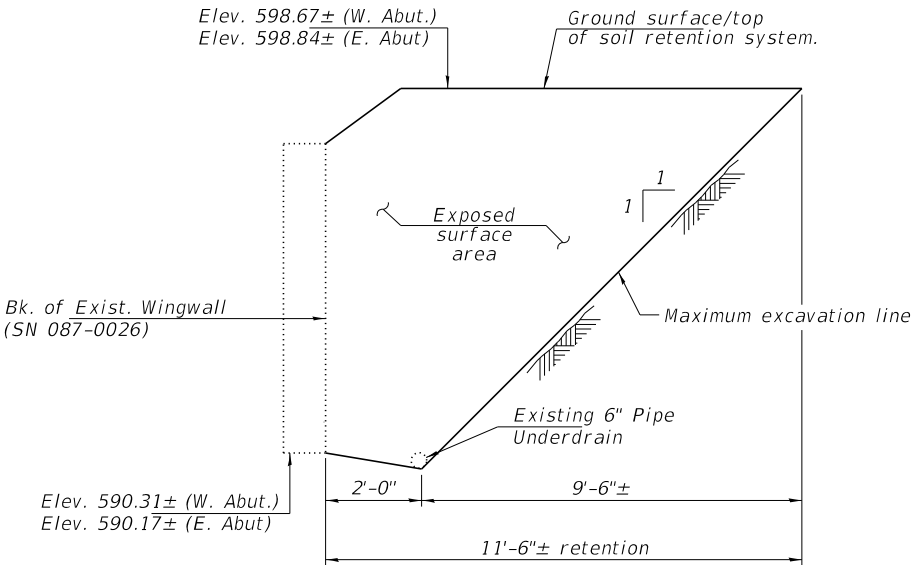
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.	-	-	100
Stone Riprap, Class A5	Ton	-	-	250
Filter Fabric	Sq. Yd.	-	-	210
Concrete Removal	Cu. Yd.	-	3.8	3.8
Concrete Structures	Cu. Yd.	-	27.0	27.0
Concrete Superstructure (Approach Slab)	Cu. Yd.	6.2	-	6.2
Reinforcement Bars, Epoxy Coated	Pound	-	5,380	5,380
Furnishing Steel Piles HP10x42	Foot	-	160	160
Driving Piles	Foot	-	160	160
Test Pile Steel HP10x42	Each	-	1	1
Pile Shoes	Each	-	6	6
Name Plates	Each	-	-	1
Temporary Soil Retention System	Sq. Ft.	-	220	220
Granular Backfill for Structures	Cu. Yd.	-	90	90
Concrete Sealer	Sq. Ft.	-	475	475
Geocomposite Wall Drain	Sq. Yd.	-	45	45
Pipe Underdrains for Structures (Special) 6"	Foot	-	100	100
Pedestrian Truss Superstructure	Sq. Ft.	727	-	727



SECTION THRU ABUTMENT

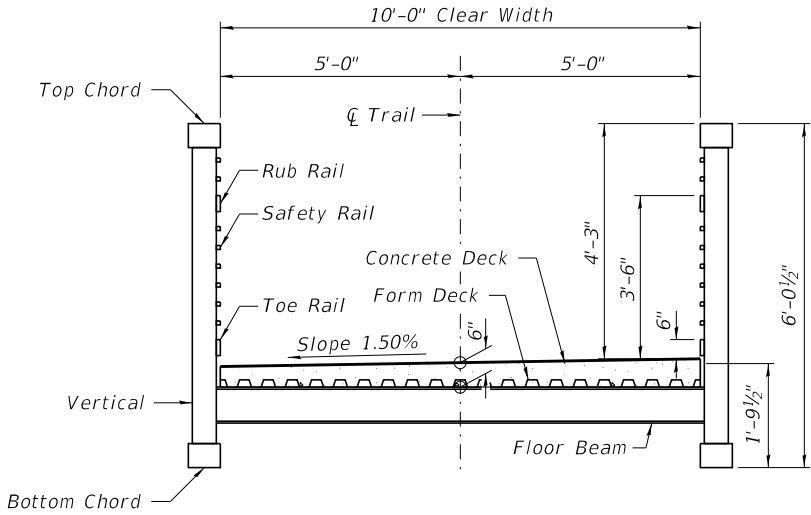
(Horiz. dim. at Rt. L's)

*Included in the cost of of Pipe Underdrains for Structures (Special) 6". The Contractor shall locate and tie into the existing pipe underdrains. (SN 087-0026) - (See Special Provisions)



TEMPORARY SOIL RETENTION SYSTEM DETAIL

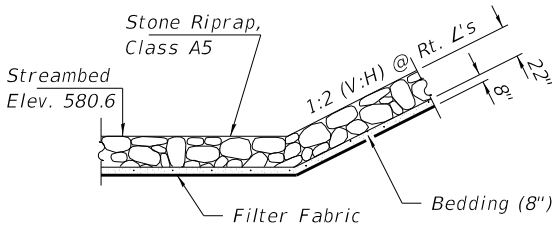
The Contractor shall take caution and verify the location of the existing 6" Pipe Underdrain prior to constructing the soil retention system. The Contractor shall avoid damaging the pipe during construction and connect the proposed 6" Pipe Underdrain prior to backfilling.



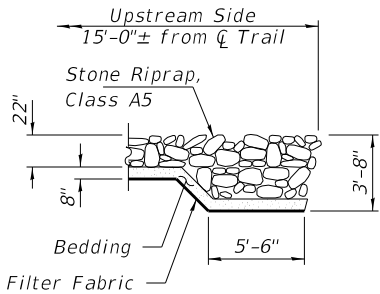
SECTION THRU STRUCTURE

(Looking East)

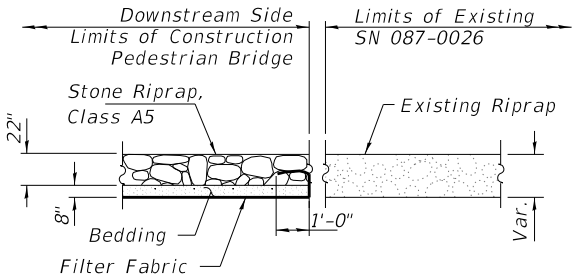
The Contractor shall verify dimensions shown as specified by the fabricator of Pedestrian Truss Superstructure.



SECTION A-A

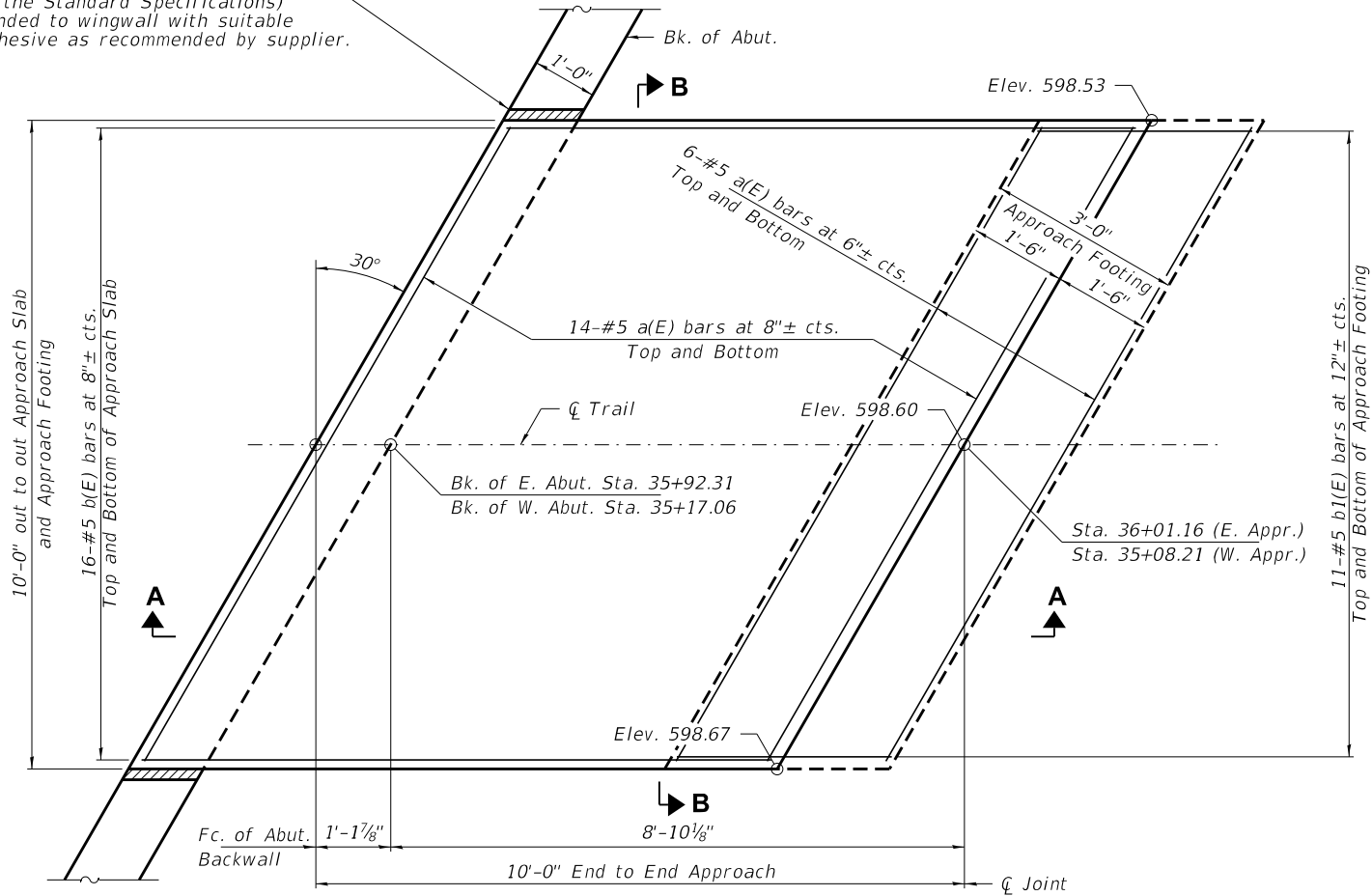


SECTION B-B



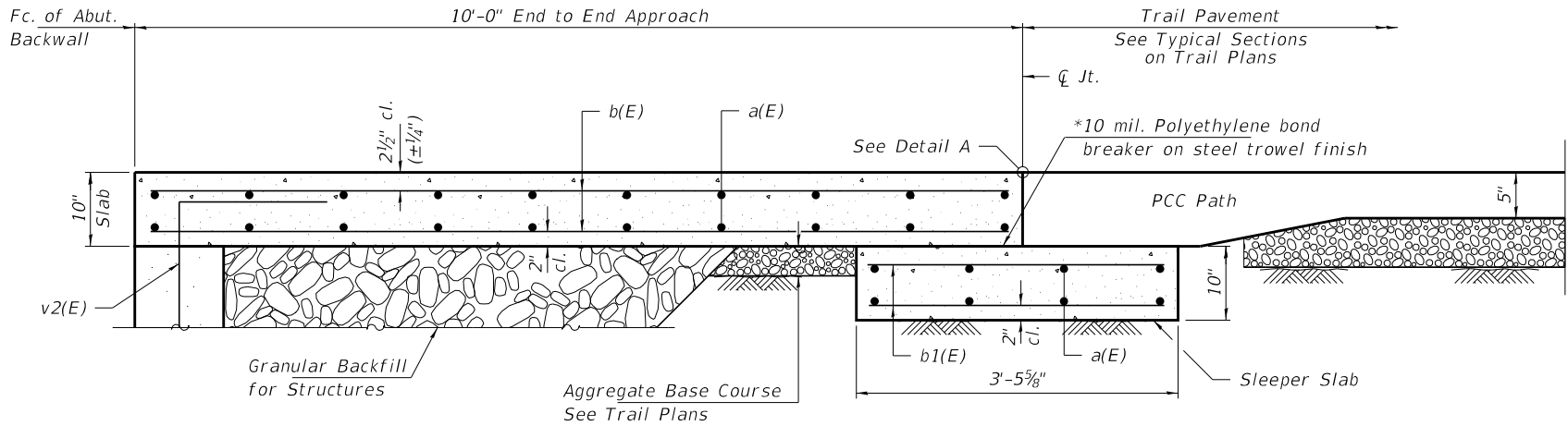
SECTION C-C

2" PJF (per Article 1051.09 of the Standard Specifications) bonded to wingwall with suitable adhesive as recommended by supplier.



PLAN

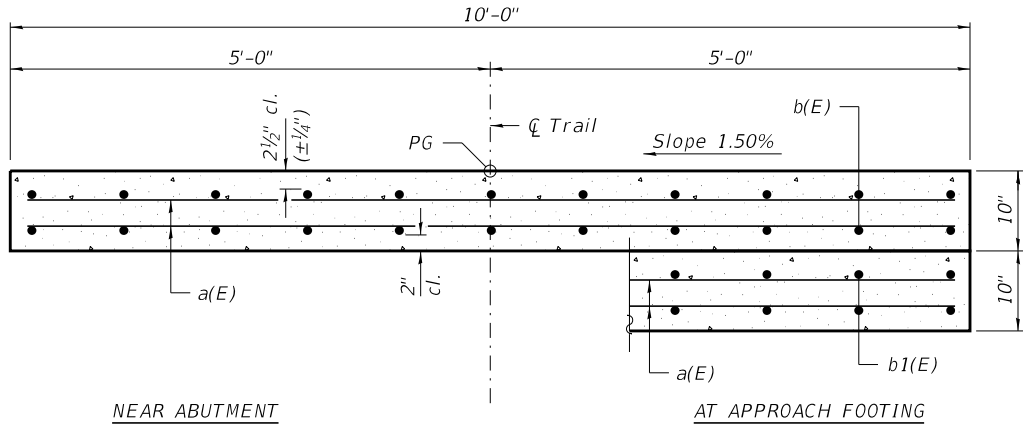
(East approach slab shown, West approach slab similar by rotation)



SECTION A-A

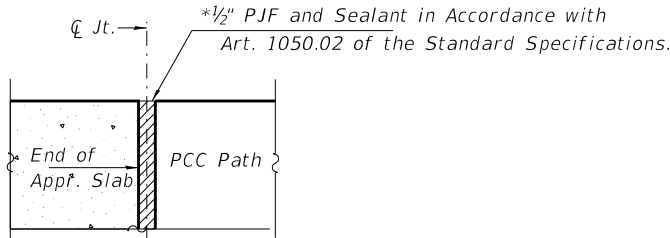
*Cost Included with Concrete Superstructure (Approach Slab)

Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
The Approach footing concrete shall be paid for as Concrete Structures.
The Approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for the Approach footing is included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see Sheet 2 of 9.
v2(E) bars billed with abutments, See Sheets 4 thru 6 of 9 for placement and details.



SECTION B-B

See Plan for dimensions not shown (Looking East)

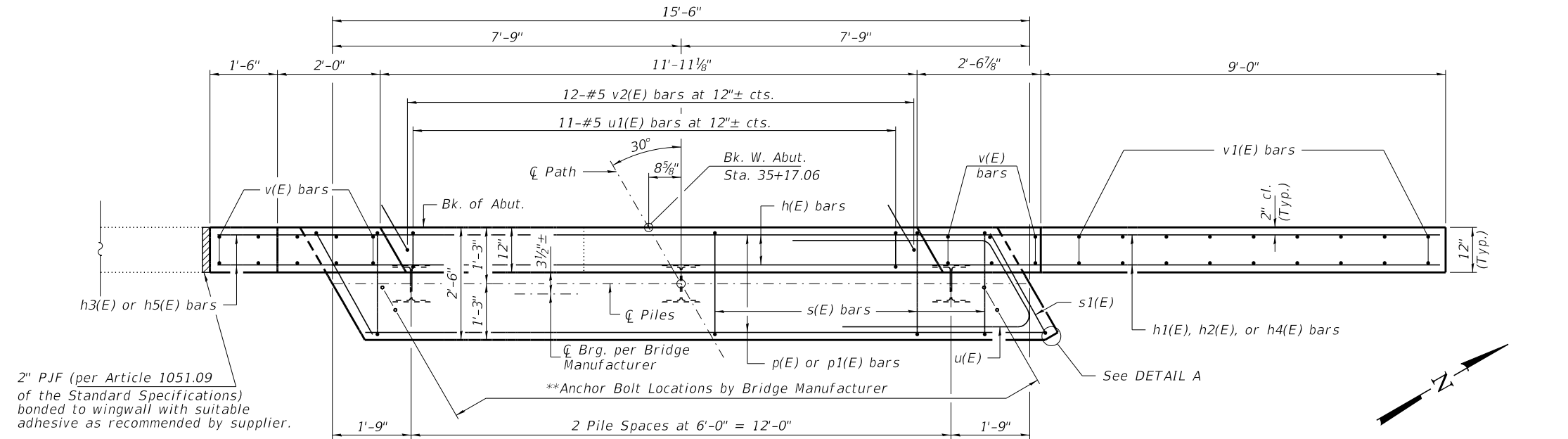


DETAIL A

*Cost Included with Concrete Superstructure (Approach Slab)

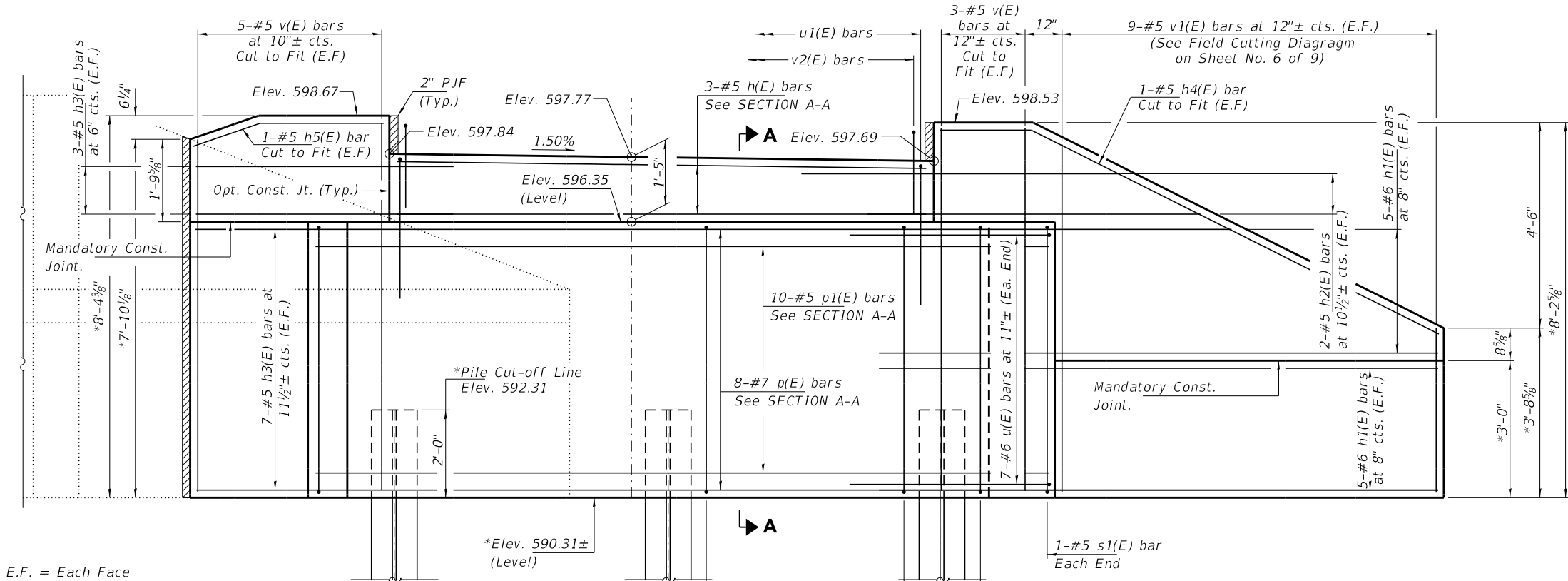
**TWO APPROACHES
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	80	#5	11'-2"	
b(E)	64	#5	9'-8"	
b1(E)	44	#5	3'-2"	
Concrete Superstructure (Approach Slab)			Cu. Yd.	6.2
Concrete Structures			Cu. Yd.	2.1
Reinforcement Bars, Epoxy Coated			Pound	1,720



2" PJF (per Article 1051.09 of the Standard Specifications) bonded to wingwall with suitable adhesive as recommended by supplier.

PLAN



E.F. = Each Face

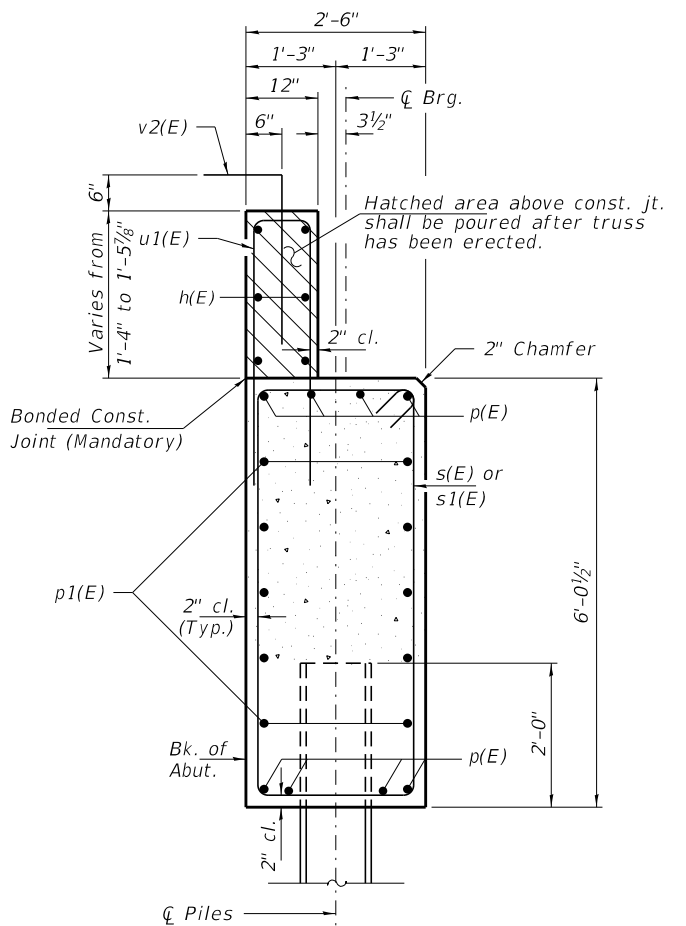
*Match bottom of existing abutment cap elevation (SN 087-0026). Dimensions shall be verified in the field prior to construction and approved by the engineer.

**Spacing of s(E) bars at each end of the pile cap should be modified to avoid anchor bolts. Size, number, and location of anchor bolts are to be based on the approved shop drawings for the Pedestrian Truss Superstructure.

PILE DATA

Type: Steel HP10x42 w/ pile shoes
Nominal Required Bearing: 280 Kips/Pile
Factored Resistance Available: 155 Kips/Pile
Est. Length: 32 Ft/Pile
No. Production Piles: 2
No. Test Piles: 1

Notes: One test pile shall be driven in a permanent location at the West Abutment.



SECTION A-A

Dimensions at Rt. L's to Abut.

BILL OF MATERIAL - W. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	6	#5	11'-7"	
h1(E)	20	#6	12'-3"	
h2(E)	4	#5	7'-0"	
h3(E)	20	#5	5'-2"	
h4(E)	2	#5	12'-0"	
h5(E)	2	#5	3'-6"	
p(E)	8	#7	15'-2"	
p1(E)	10	#5	15'-2"	
s(E)	12	#5	16'-7"	
s1(E)	2	#5	10'-8"	
u(E)	14	#6	11'-1"	
u1(E)	11	#5	6'-8"	
v(E)	16	#5	8'-2"	
v1(E)	9	#5	11'-2"	
v2(E)	12	#5	2'-6"	
Concrete Structures			Cu. Yd.	12.3
Reinf. Bars, Epoxy Coated			Pound	1,830
Furnishing Steel Piles HP10x42			Foot	64
Driving Piles			Foot	64
Test Pile Steel HP10x42			Each	1
Pile Shoes			Each	3

Notes:

Contractor shall verify dimensions with Pre-fabricated bridge supplier prior to construction. Hold P.G.E. and adjust bearing seat elevation if required.

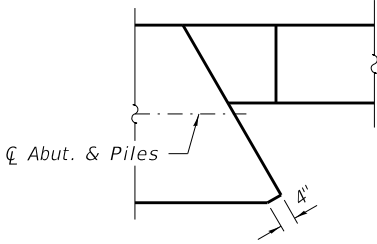
All edges shall have standard 3/4" chamfer unless otherwise noted.

The backwall and the portion of the wingwalls above the bonded construction joint shall be poured after truss has been erected.

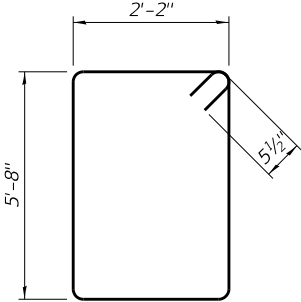
Excavation required to construct the abutment shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.

See Sheet No. 6 of 9 for reinforcement details and Detail A.

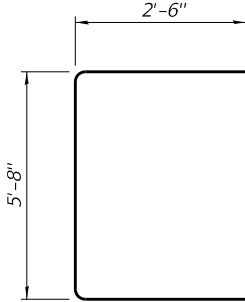
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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -				325	21-00060-01-BT	SHELBY	147	59
	PLOT DATE = 2/24/2025	DRAWN - S.T.M.	REVISED -				CONTRACT NO. 95940				
		CHECKED - S.W.M.	REVISED -				C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)		



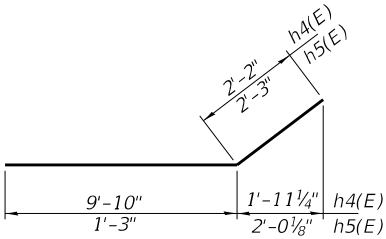
DETAIL A
Block out sharp
corner of abut. cap.



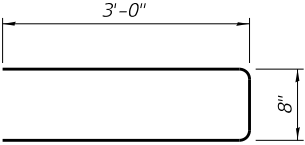
BAR s(E)



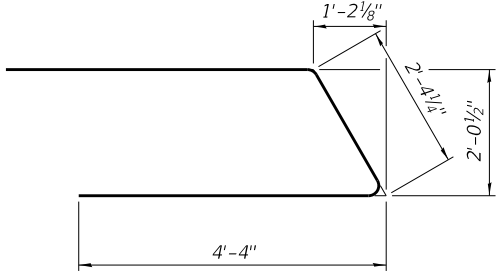
BAR s1(E)



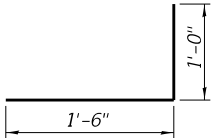
BARS h4(E) & h5(E)



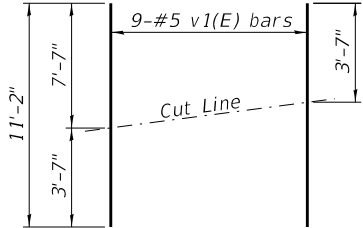
BAR u1(E)



BAR u(E)



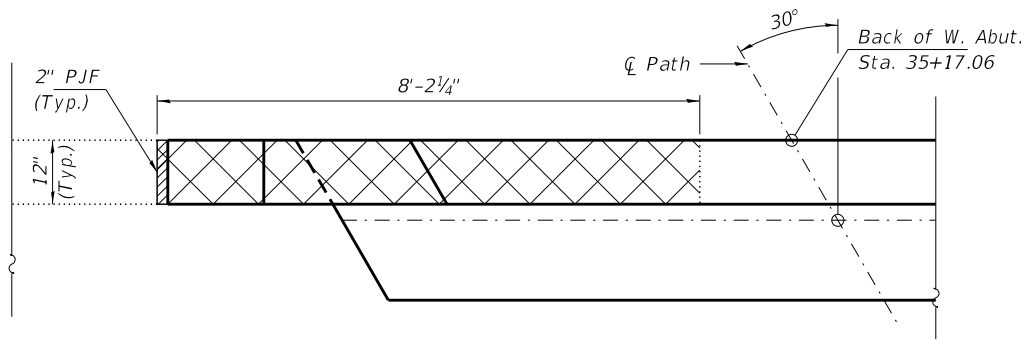
BAR v2(E)



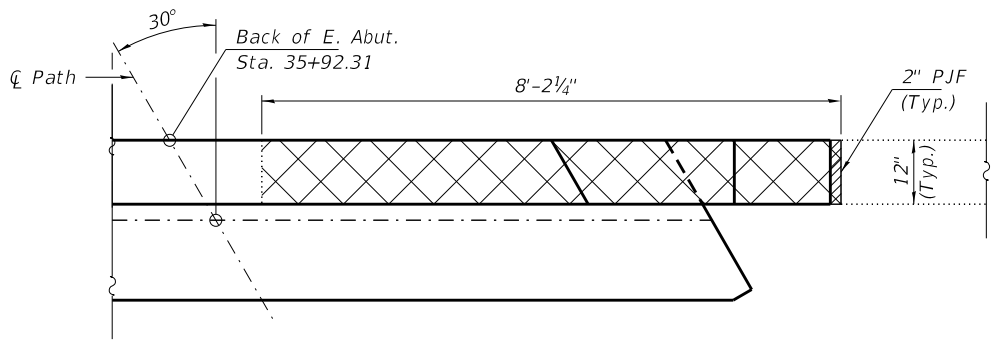
FIELD CUTTING DIAGRAM

Order v1(E) bars full length. Cut as shown
and use remainder of bars in opposite face.

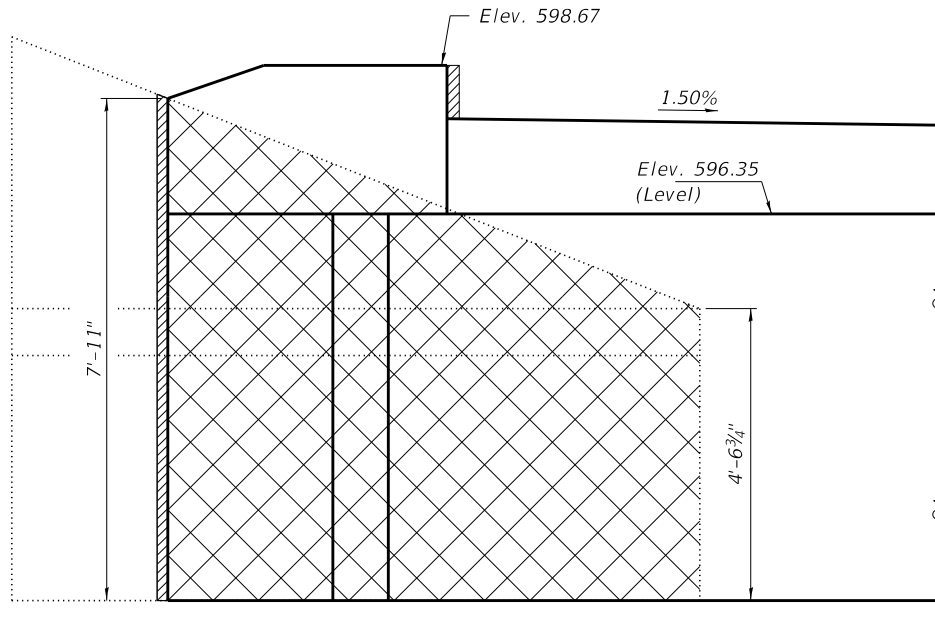
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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959 ILLR		CHECKED - S.W.M.		REVISED -															
		DRAWN - S.T.M.		REVISED -															
		PLOT SCALE =																	
		PLOT DATE = 2/24/2025		CHECKED - S.W.M.		REVISED -													
								SHEET NO. 6 OF 9 SHEETS											
										F.A.P.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
										325		21-00060-01-BT		SHELBY		147		61	
																		CONTRACT NO. 95940	
												C-97-019-22		ILLINOIS		FED. AID PROJECT V44K(216)			



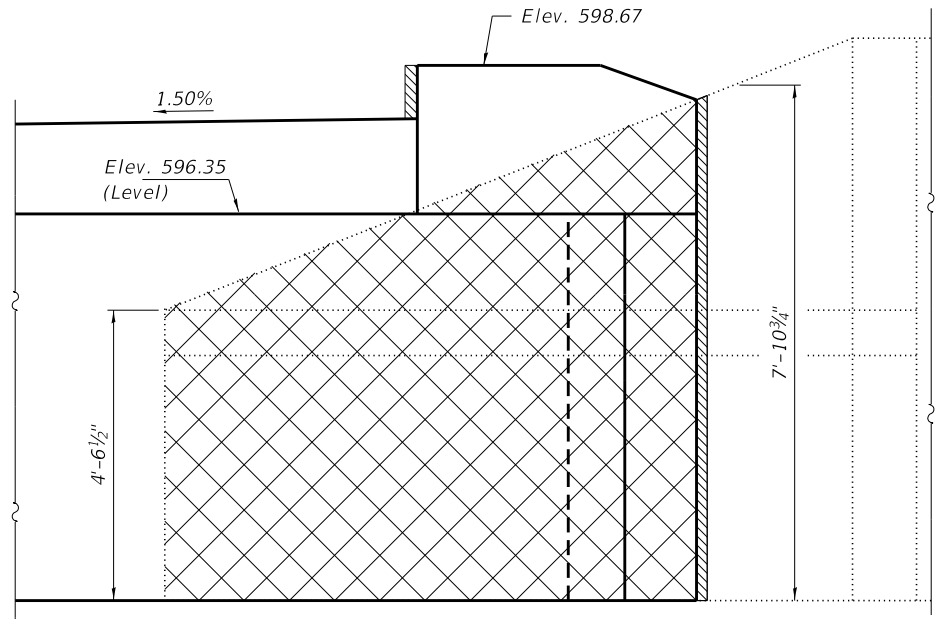
WEST ABUTMENT PLAN



EAST ABUTMENT PLAN



WEST ABUTMENT ELEVATION
(Looking West)



EAST ABUTMENT ELEVATION
(Looking East)



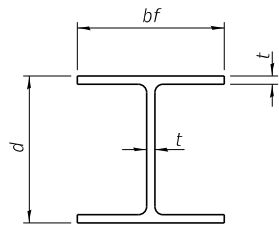
Hatched areas indicate limits of Concrete Removal.

Notes:
See Sheets 4 & 5 of 9 for PJF details.
The contractor shall repair, at their own expense, any damage to the substructure caused by removal operations.
Existing reinforcement shall be ground smooth and sealed with epoxy. Cost included with Concrete Removal.

BILL OF MATERIAL

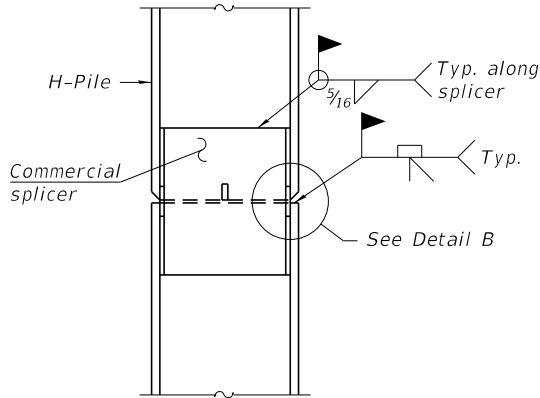
Item	Unit	Quantity
Concrete Removal	Cu. Yd.	3.8

FILE NAME = 190404-shl-bridge.dgn		USER NAME = tlmk	DESIGNED - S.T.M.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	CONCRETE REMOVAL PEDESTRIAN BRIDGE					
 HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959			CHECKED - S.W.M.	REVISED -							
	PLOT SCALE =		DRAWN - S.T.M.	REVISED -							
	PLOT DATE = 2/24/2025		CHECKED - S.W.M.	REVISED -							
					SHEET NO. 7 OF 9 SHEETS						
F.A.P.		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.					
325		21-00060-01-BT		SHELBY	147	62	CONTRACT NO. 95940				
C-97-019-22		ILLINOIS		FED. AID PROJECT V44K(216)							

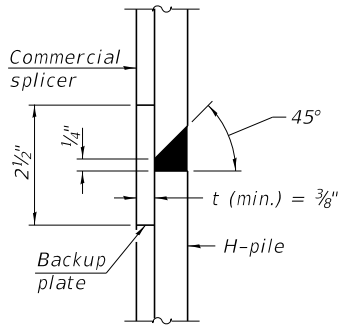


STEEL PILE TABLE

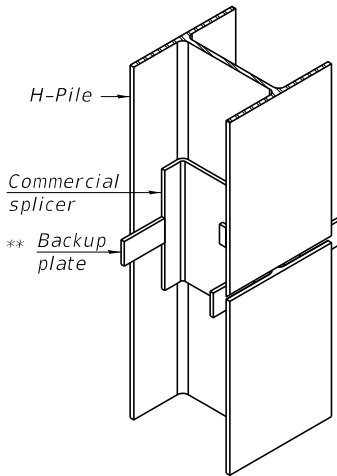
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 18x181	18"	18"	1"	36"
x157	17¾"	17⅞"	⅞"	36"
x135	17½"	17¾"	¾"	36"
HP 16x183	16½"	16½"	1⅛"	36"
x162	16¼"	16⅞"	1"	36"
x141	16"	16"	⅞"	36"
x121	15¾"	15⅞"	¾"	36"
HP 14x117	14¼"	14⅞"	1⅜"	30"
x102	14"	14¾"	1⅞"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅞"	½"	30"
HP 12x84	12¼"	12¼"	1⅞"	24"
x74	12⅞"	12¼"	⅝"	24"
x63	12"	12⅞"	½"	24"
x53	11¾"	12"	⅞"	24"
HP 10x57	10"	10¼"	⅞"	24"
x42	9¾"	10⅞"	⅞"	24"
HP 8x36	8"	8⅞"	⅞"	18"



ELEVATION

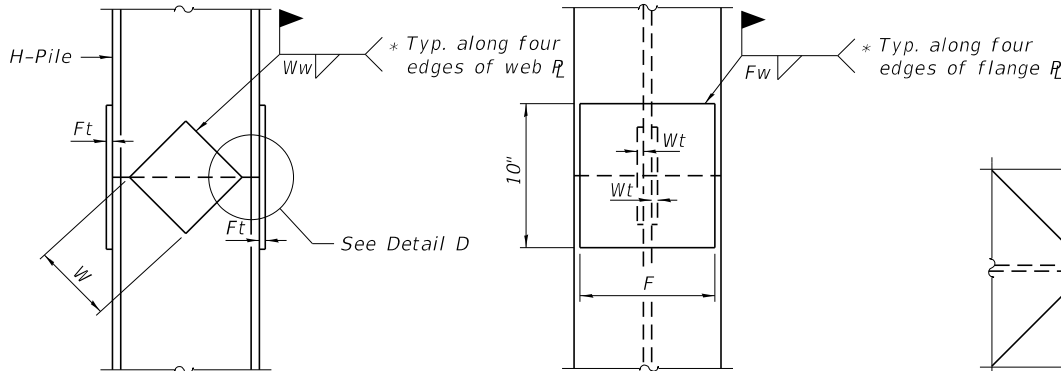


DETAIL "B"



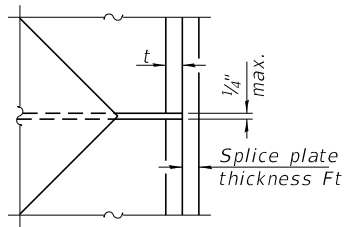
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ELEVATION

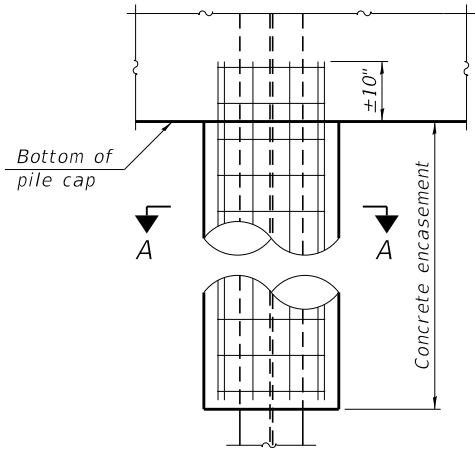
END VIEW



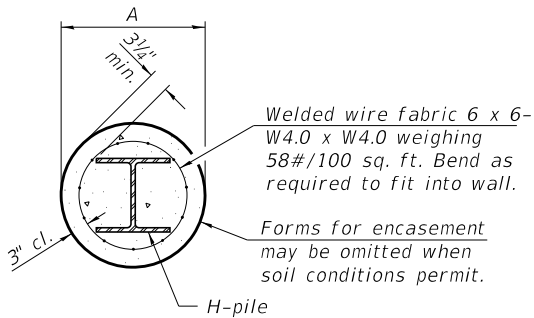
DETAIL C

Designation	F	Ft	Fw	W	Wt	Ww
HP 18x181	15½"	1½"	1"	9½"	⅞"	¾"
x157	15½"	1¼"	1"	9½"	⅞"	¾"
x135	15¼"	1¼"	1"	9½"	⅞"	¾"
HP 16x183	13¾"	1½"	1"	8¼"	⅞"	¾"
x162	13½"	1½"	1"	8¼"	¾"	⅝"
x141	13½"	1¼"	⅞"	8¼"	¾"	⅝"
x121	13½"	1¼"	⅞"	8¼"	¾"	⅝"
HP 14x117	12½"	1"	⅞"	7¾"	⅝"	½"
x102	12½"	⅞"	¾"	7¾"	⅝"	½"
x89	12½"	¾"	1⅞"	7¾"	⅝"	½"
x73	12½"	⅝"	⅞"	7¾"	⅝"	½"
HP 12x84	10"	⅞"	1⅞"	6½"	⅝"	½"
x74	10"	⅞"	1⅞"	6½"	⅝"	½"
x63	10"	⅝"	½"	6½"	½"	⅜"
x53	10"	⅝"	½"	6½"	½"	⅜"
HP 10x57	8"	¾"	⅞"	5¼"	½"	⅜"
x42	8"	⅝"	⅞"	5¼"	½"	⅜"
HP 8x36	7"	⅝"	⅞"	4¼"	½"	⅜"

WELDED PLATE FIELD SPLICE

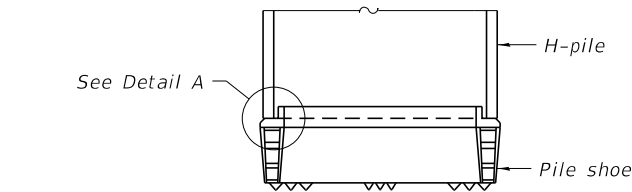


ELEVATION

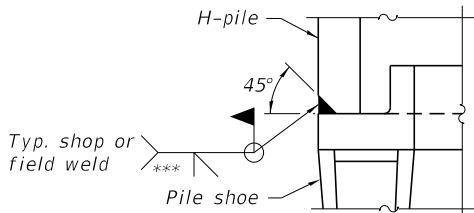


SECTION A-A

INDIVIDUAL PILE
CONCRETE ENCASUREMENT
(when specified)

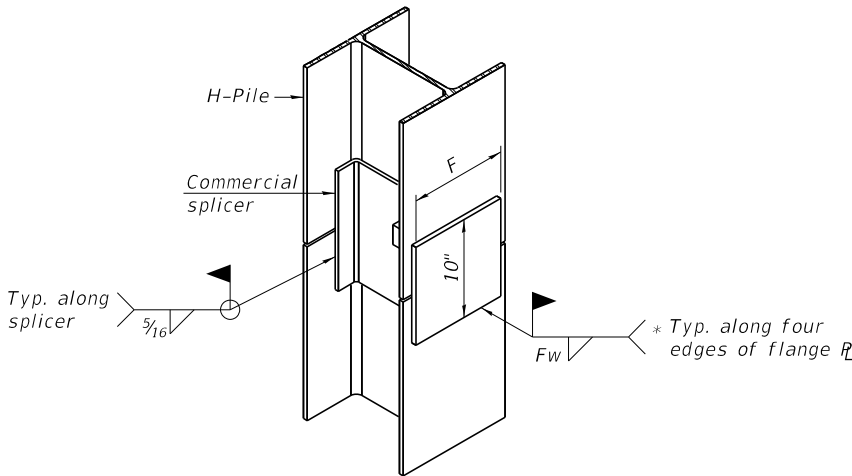


ELEVATION



DETAIL A

SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds ¼" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (⅝" min.).

Note:
The steel H-piles shall be according to
AASHTO M270 Grade 50.

F-HP

10-27-2023

FILE NAME = 190404-shi-bridge.dgn	USER NAME = tlmk	DESIGNED - S.T.M.	REVISED -	STATE OF ILLINOIS CITY OF SHELBYVILLE	HP PILE DETAILS PEDESTRIAN BRIDGE	SHEET NO. 8 OF 9 SHEETS	F.A.P.	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	PLOT SCALE =	CHECKED - S.W.M.	REVISED -				325	21-00060-01-BT	SHELBY	147	63
	PLOT DATE = 2/24/2025	DRAWN - S.T.M.	REVISED -				CONTRACT NO. 95940				
		CHECKED - S.W.M.	REVISED -				C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)		

HOLCOMB FOUNDATION ENGINEERING INC.
393 Wood Road 618-529-5262
Carbondale, Il. 62901 618-457-8991 fax

Page 1 of 2

Bridge Foundation Boring Log

Project: H-20043 Bridge Phase 10 Bike Path Date: 2/21/2020

Section: Station: Bored by: D. Plucker

Structure: Checked By: T. Holcomb

County: Shelby

Boring No: 1

Station:

Offset:

Elevation

N

Qu

tsf

w

%

Surface Water Elev.

Ground Water Elev.

During Drilling 572.4

Upon Completion 578.4

Elevation

N

Qu

tsf

w

%

Ground Surface 586.4 0

4" Topsoil

Brown Sandy CLAY (A-6)

582.9

Brown Mottled Gray Silty CLAY (A-6) with gravel

580.4

Brown Mottled Gray Silty CLAY (A-6) with sand and gravel

577.4

Gray Silty CLAY (A-6) with sand and gravel

100/6"

98

131

77

2

10

73

131

94

100/6"

98

131

77

0.5B

--

4.0B

--

2.9B

--

1.8B

26

12

7

7

6

7

6

8

silty clay with sand and gravel (continued)

83

73

92

65

58

52

2.2B

6.6B

--

2.8B

5.8S

4.9S

7

7

7

7

8

8

N = Standard Penetration Test
Blows per foot to drive 2" O.D.
Split Spoon Sampler 12" with
a 140 lbs. hammer falling 30"

Qu-Unconfined Compressive
Strength in tons/sq.ft.
w-Water Content-percentage
of oven dry weight-%

B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

HOLCOMB FOUNDATION ENGINEERING INC.
393 Wood Road 618-529-5262
Carbondale, Il. 62901 618-457-8991 fax

Page 2 of 2

Bridge Foundation Boring Log

Project: H-20043 Bridge Phase 10 Bike Path Date: 2/21/2020

Section: Station: Bored by: D. Plucker

Structure: Checked By: T. Holcomb

County: Shelby

Boring No: 1

Station:

Offset:

Elevation

N

Qu

tsf

w

%

Surface Water Elev.

Ground Water Elev.

During Drilling 572.4

Upon Completion 578.4

Elevation

N

Qu

tsf

w

%

silty clay with sand and gravel (continued) 45

536.4

End of Boring @ -50.0'

44

8.4S

8

83

73

92

65

58

52

2.2B

6.6B

--

2.8B

5.8S

4.9S

7

7

7

7

8

8

silty clay with sand and gravel (continued)

83

73

92

65

58

52

2.2B

6.6B

--

2.8B

5.8S

4.9S

7

7

7

7

8

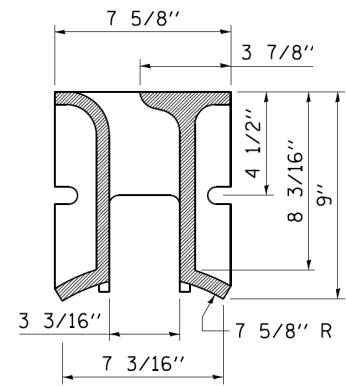
8

N = Standard Penetration Test
Blows per foot to drive 2" O.D.
Split Spoon Sampler 12" with
a 140 lbs. hammer falling 30"

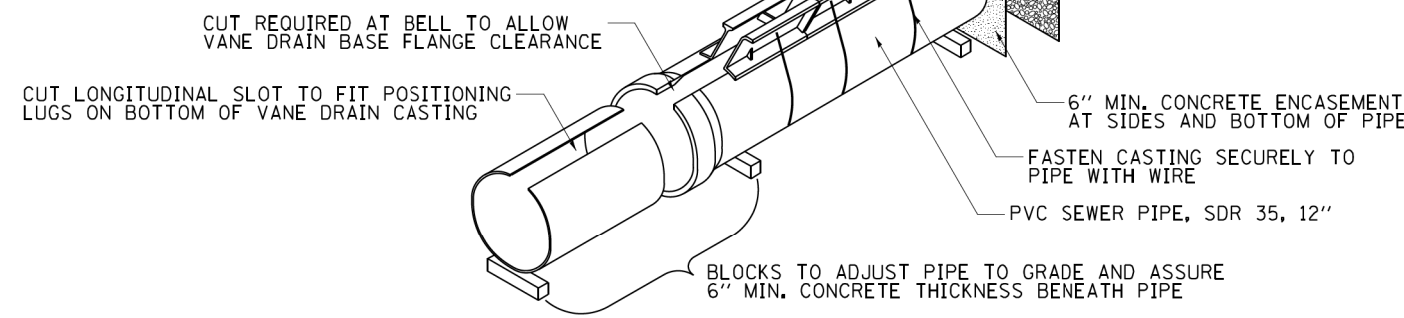
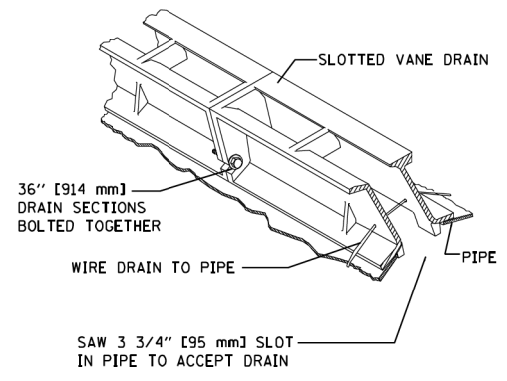
Qu-Unconfined Compressive
Strength in tons/sq.ft.
w-Water Content-percentage
of oven dry weight-%

B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

VANE DRAIN



CASTING SECTION



NOTES

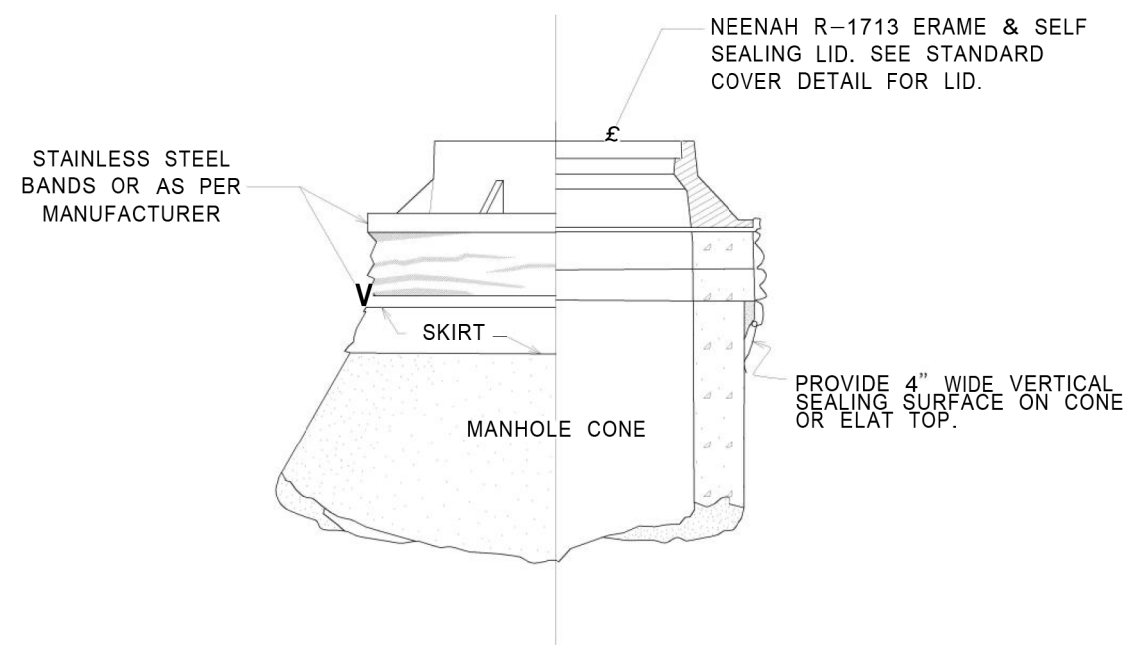
VANE DRAIN PAY ITEM SHALL INCLUDE PVC SEWER CARRIER PIPE, VANED SLOT DRAIN CASTING, CONCRETE ENCASEMENT, AND RELATED WORK.

VANE DRAIN SHALL BE INSTALLED PER MANUFACTURER STANDARDS.

CONCRETE ENCASEMENT SHALL BE CLASS SI CONCRETE.

DRAIN PIPE AND CASTING SHALL BE LAID AT THE SAME SLOPE AS THE PROPOSED ENTRANCE CROSS SLOPE.

IN THE CASE OF DIFFERING CROSS SLOPES AT THE CENTERLINE, THE DRAIN PIPE AND CASTING SHALL BREAK AT OR NEAR THE CENTERLINE AND SHALL BE CONSTRUCTED OUT OF TWO (2) SEPARATE PIPES. EACH PIPE WILL THEN BE FITTED WITH A CAP ON THE UPSTREAM END.



EXTERNAL CHIMNEY SEALS TO SPAN CHIMNEY HEIGHTS OF:	
0 - 3"	NARROW (6") SEAL ONLY
3 TO 6"	STANDARD (9") SEAL ONLY
6" TO 12"	STD. SEAL + EXTENSION
OVER 12"	SEAL + MULTI. EXTENSIONS

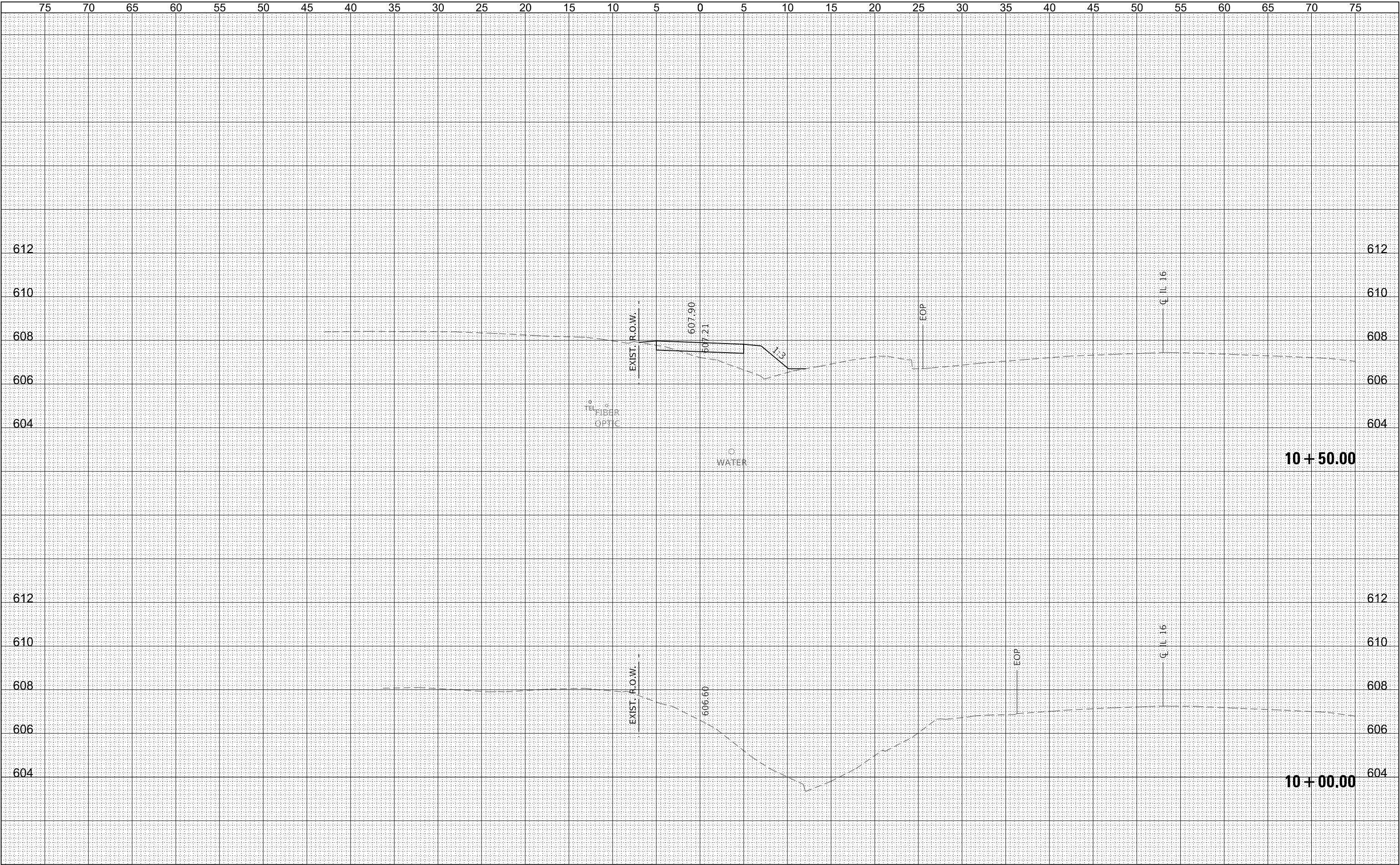
NOTE:

- CHIMNEY SEALS SHALL BE INSTALLED ON ALL SANITARY SEWER SYSTEM MANHOLES THAT DO NOT RECEIVE A CONCRETE COLLAR.
- INEISHIELD, CRETEX, OR APPROVED EQUAL EXTERNAL SEALS ARE REQUIRED. OTHER PRODUCTS OR OTHER DESIGN SOLUTIONS SHALL REQUIRE THE APPROVAL OF THE CITY ENGINEER.
- CHIMNEY SEALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

NOT TO SCALE
CHIMNEY SEAL
DETAIL

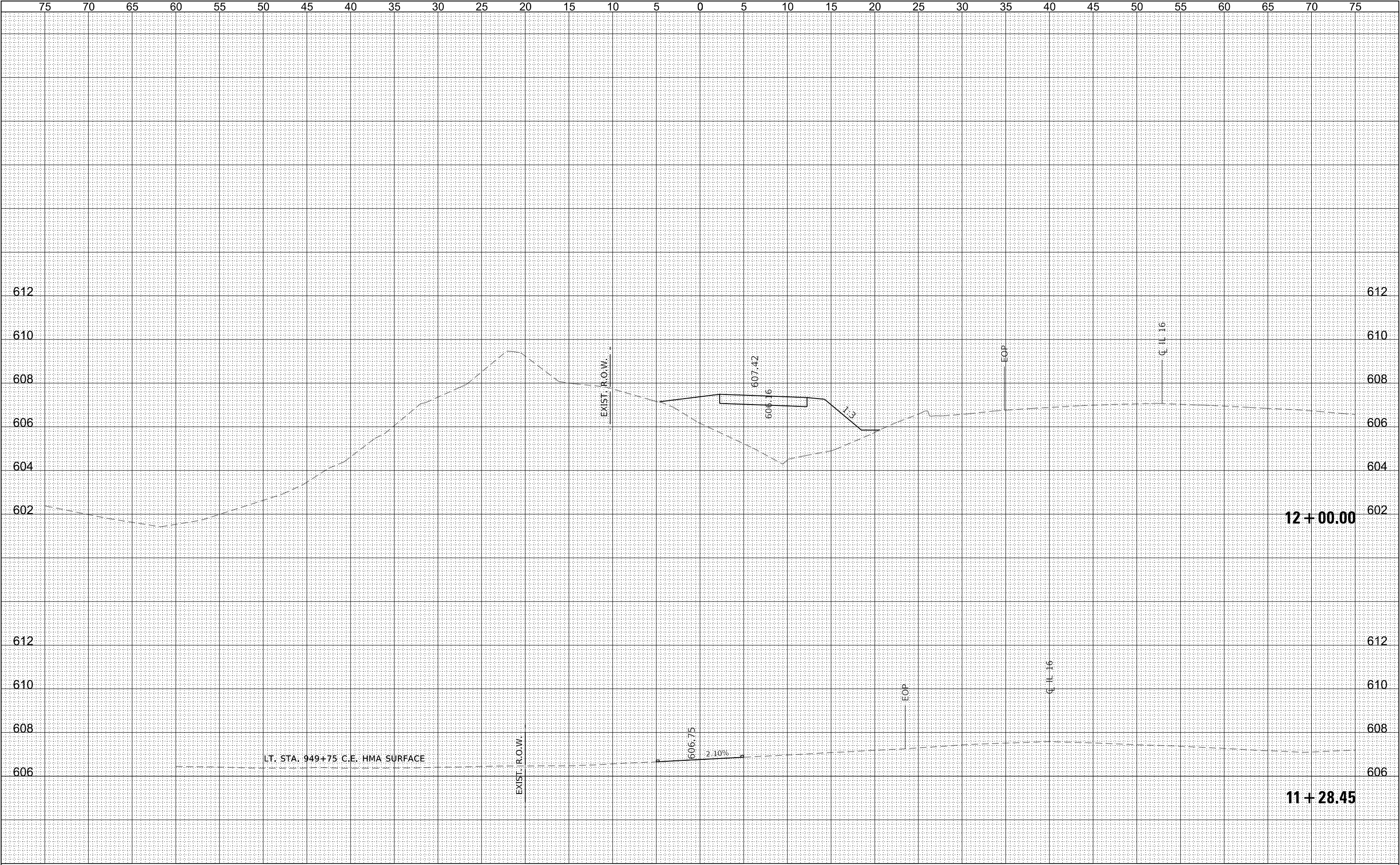
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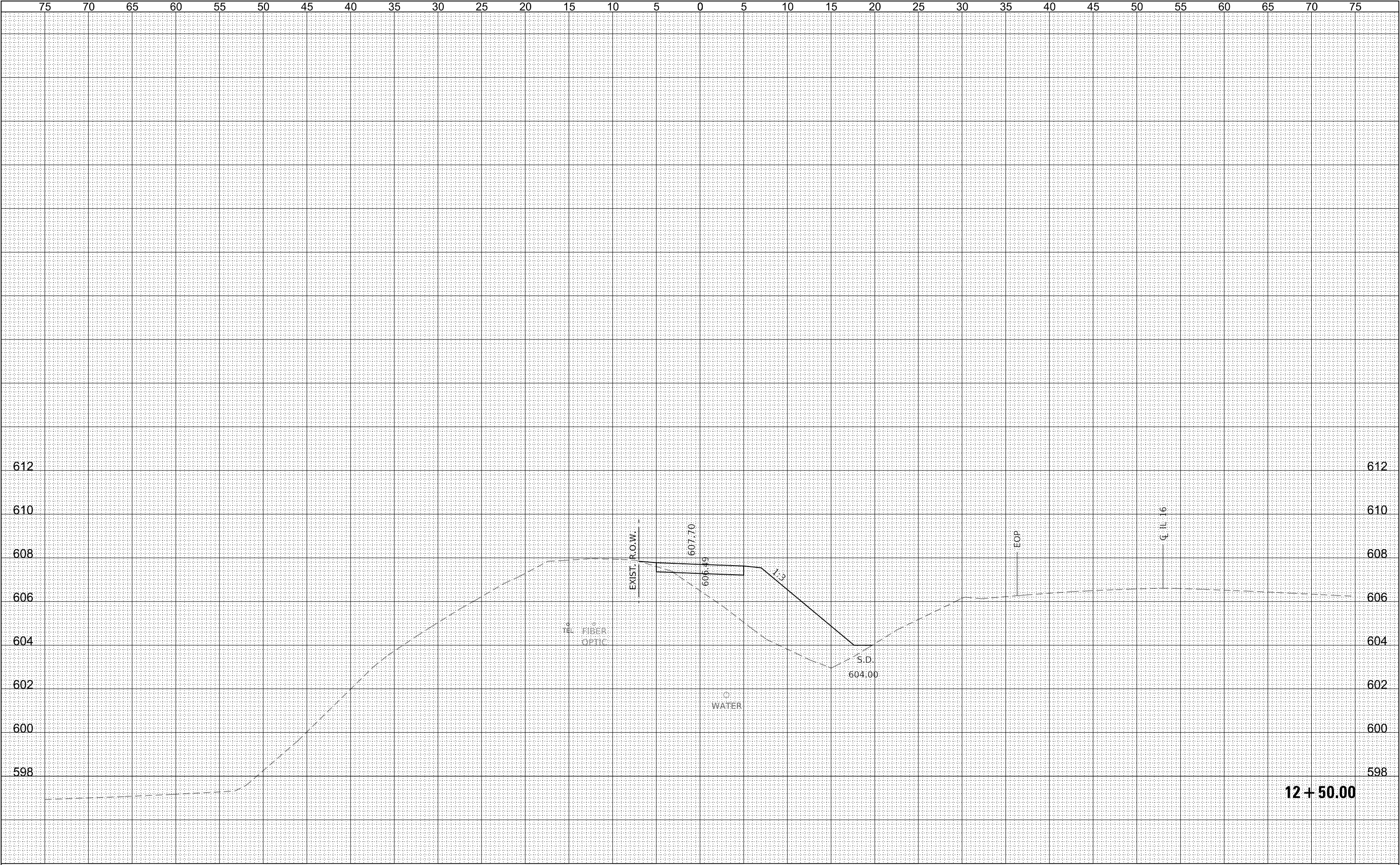
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					SCALE: 5H:2V				325 18-00060-00-BT SHELBY 147 67			
					SHEET NO. OF SHEETS STA. 11+28.45 TO STA. 12+00.00				CONTRACT NO. 95940			
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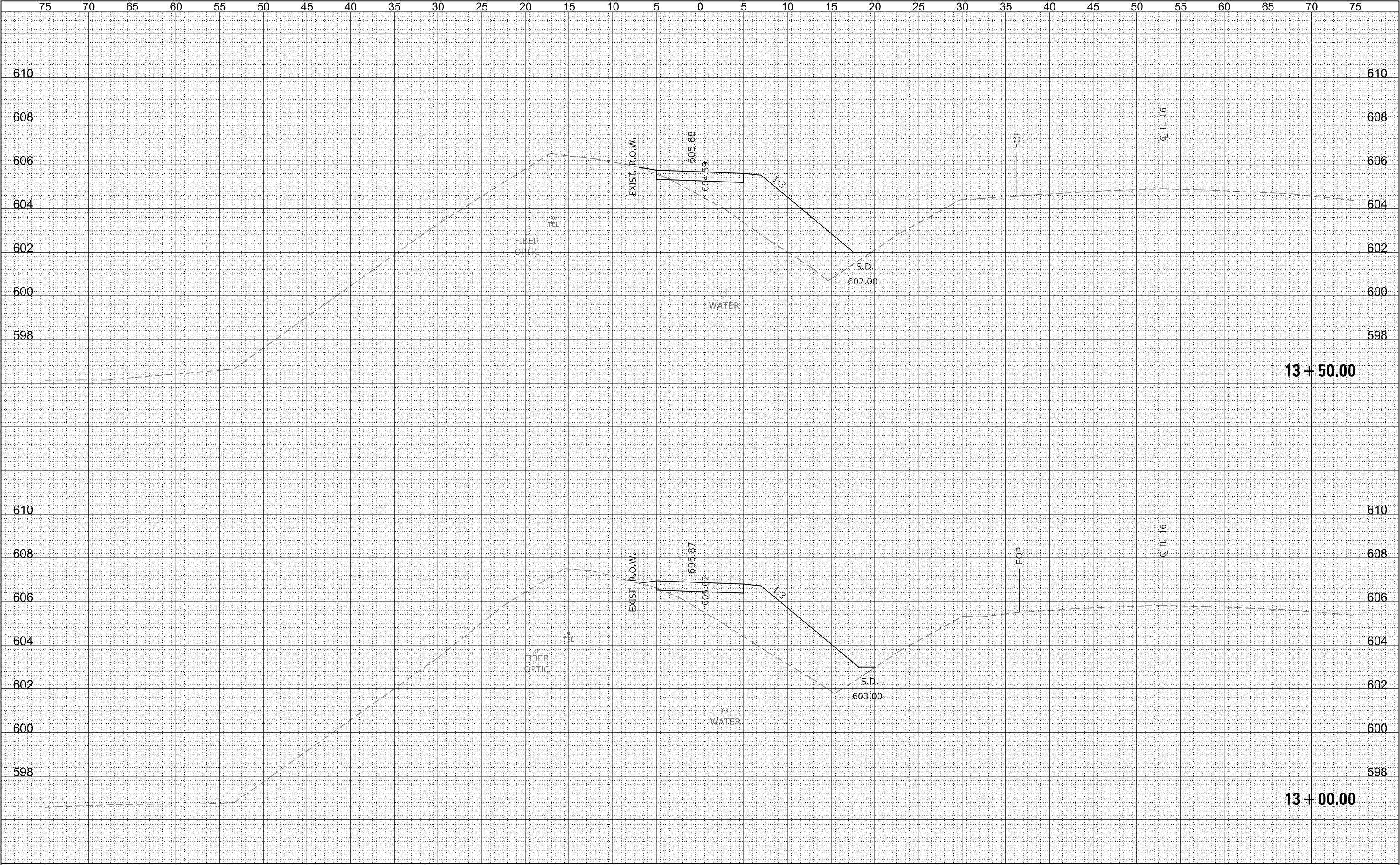
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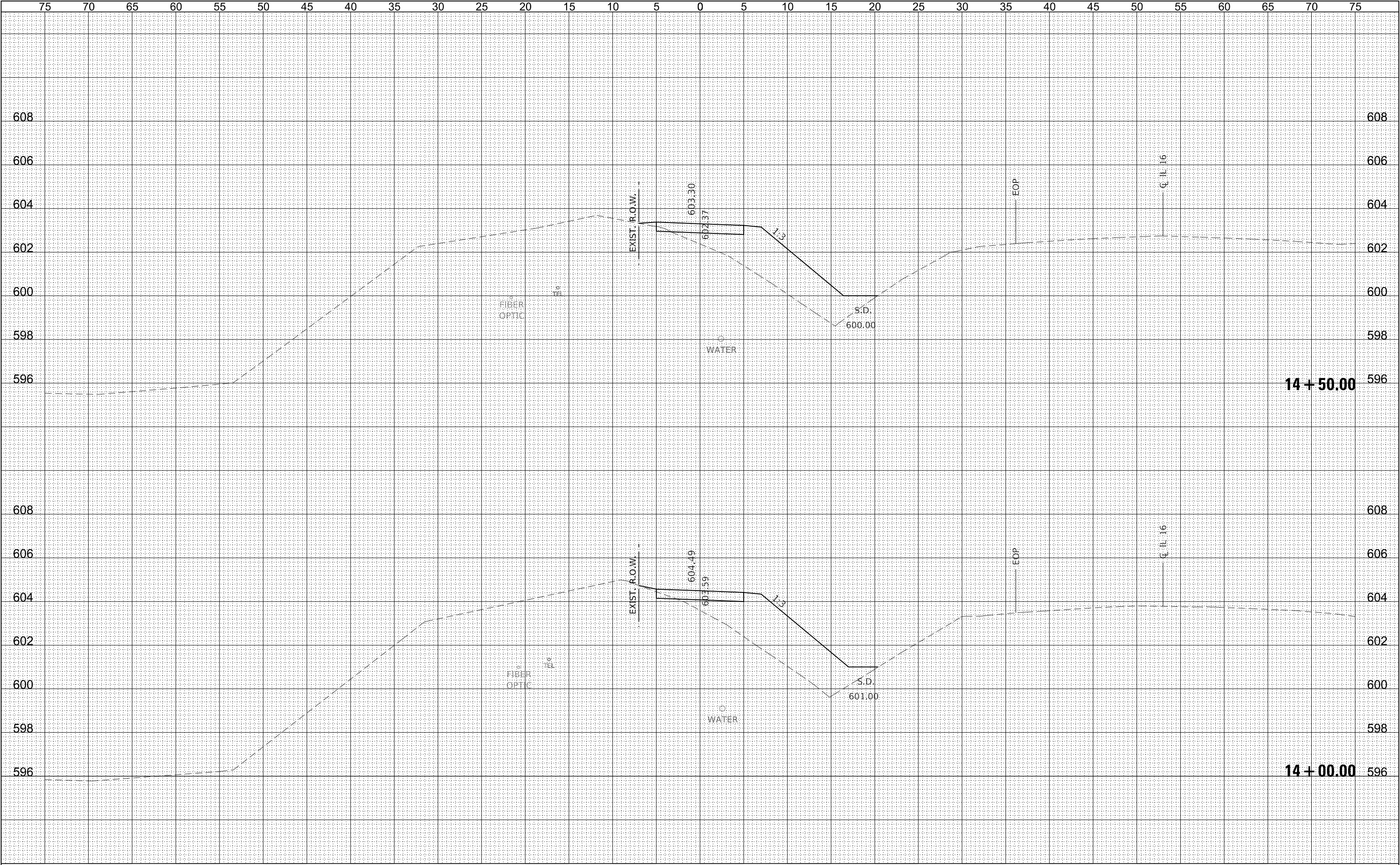
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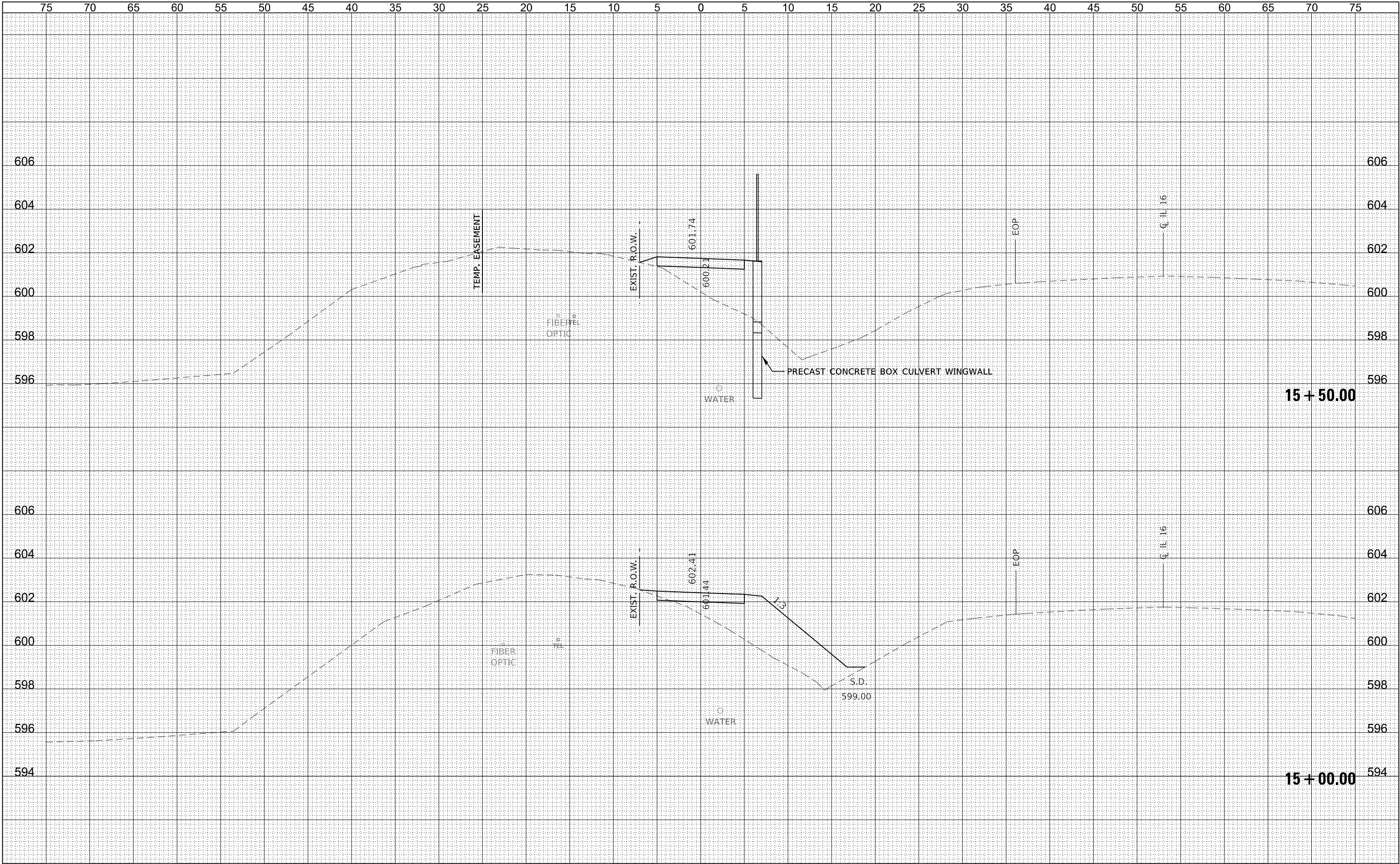
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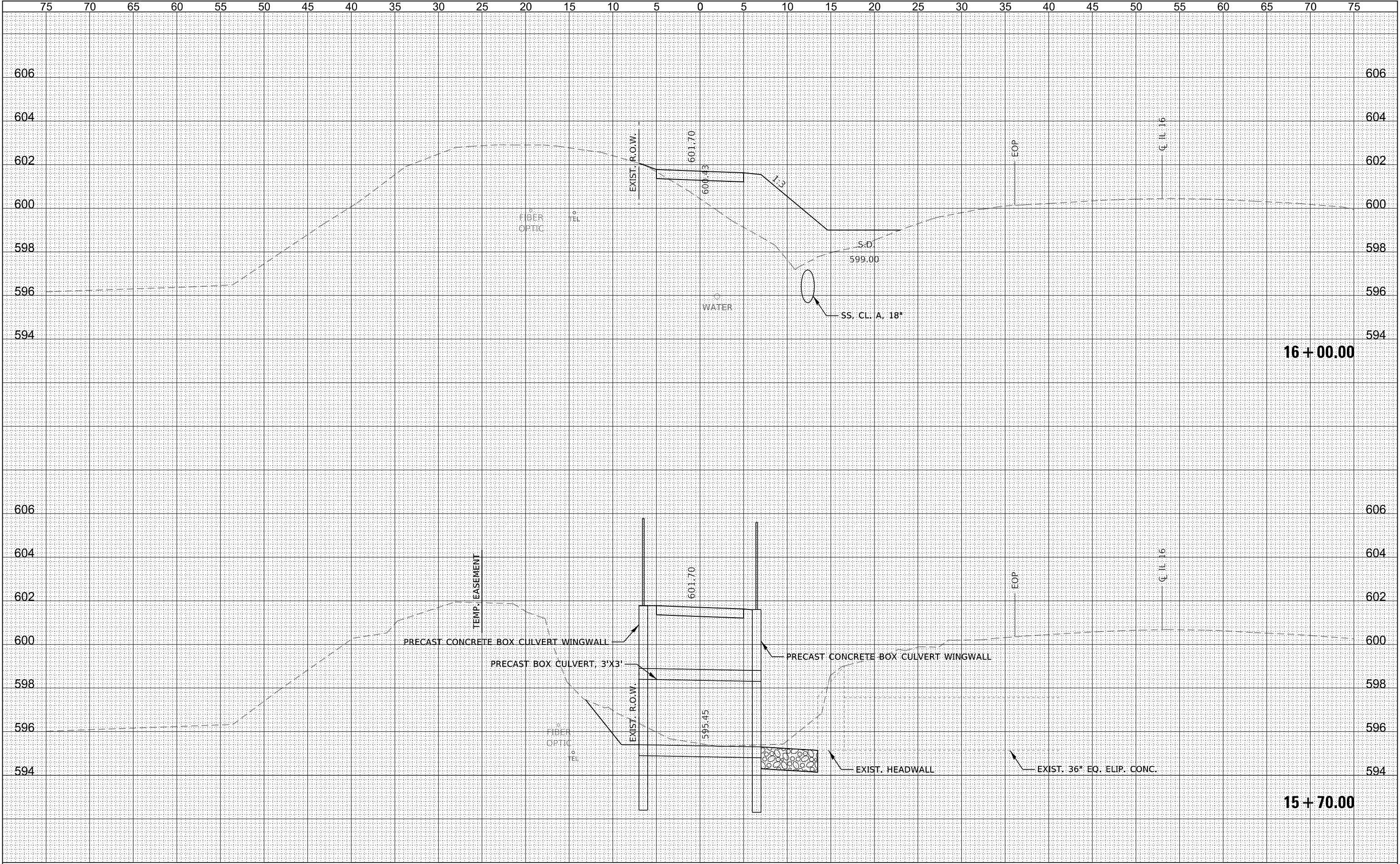
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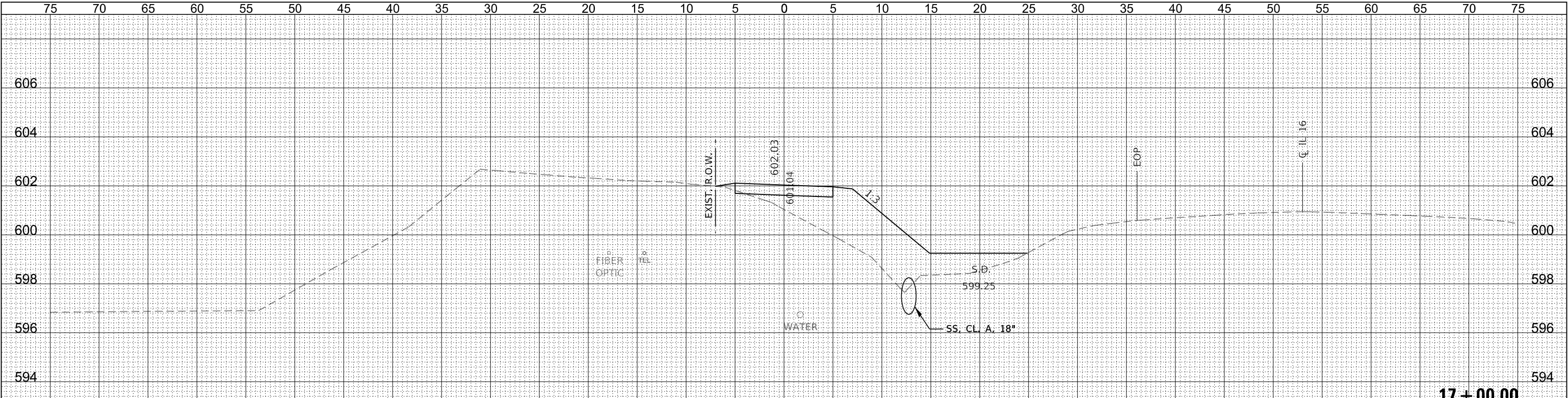


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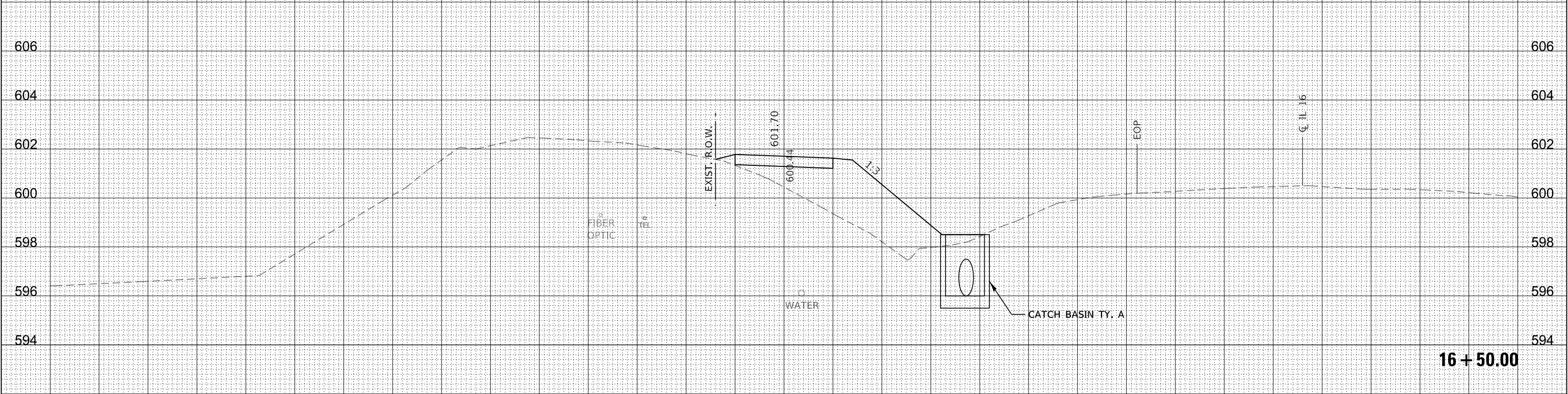
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NOTED	DATE
BOOK	DATE
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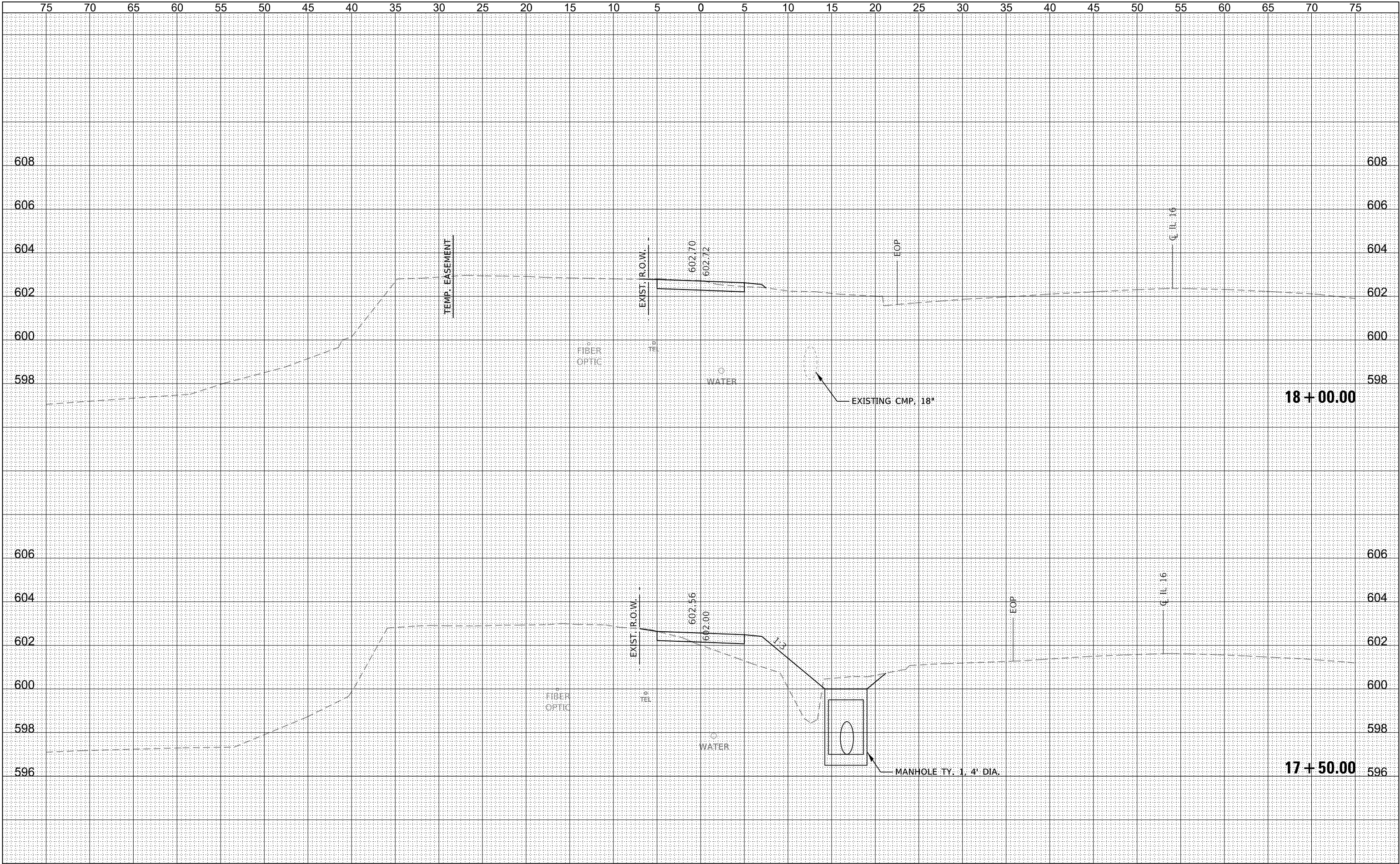


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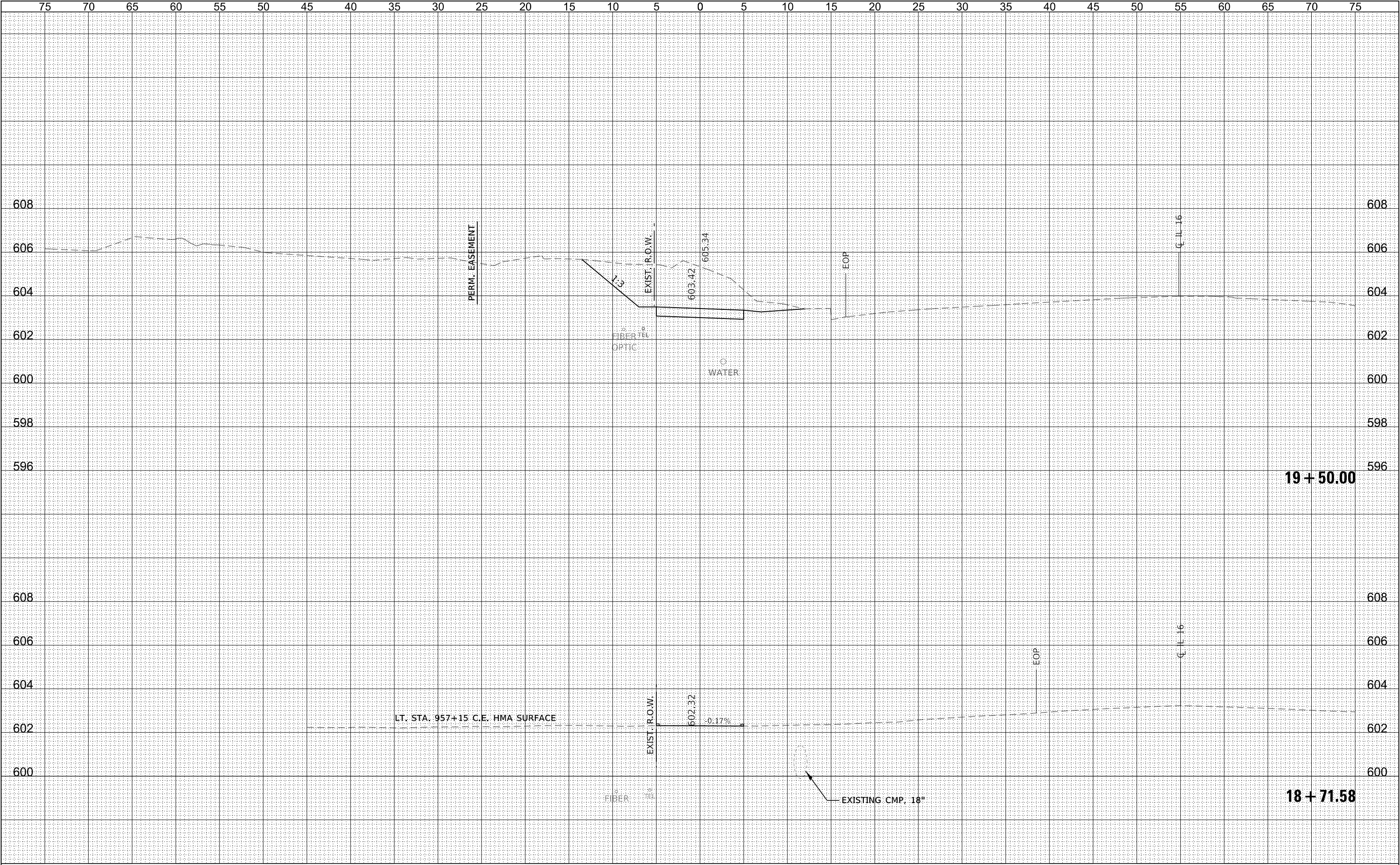
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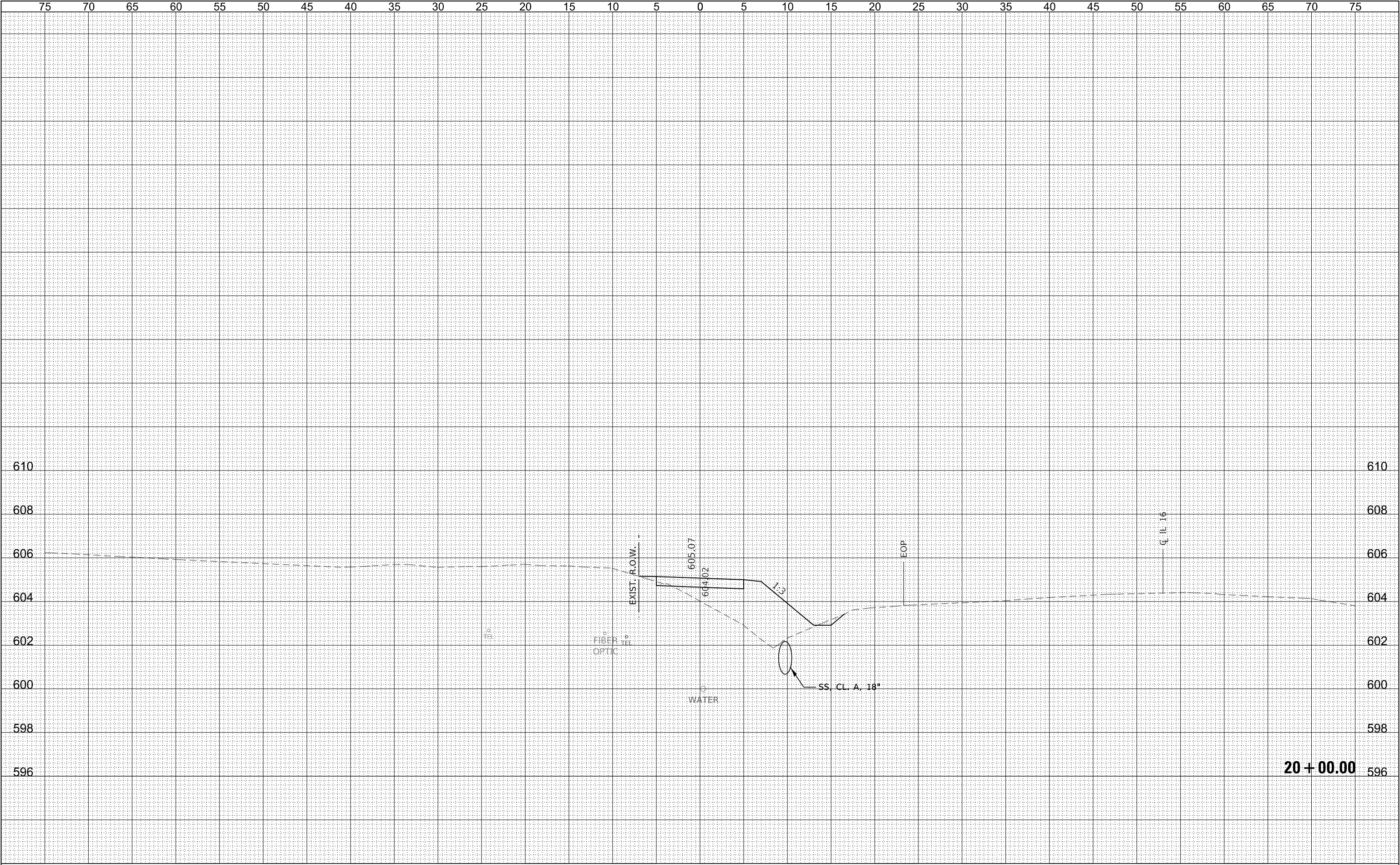
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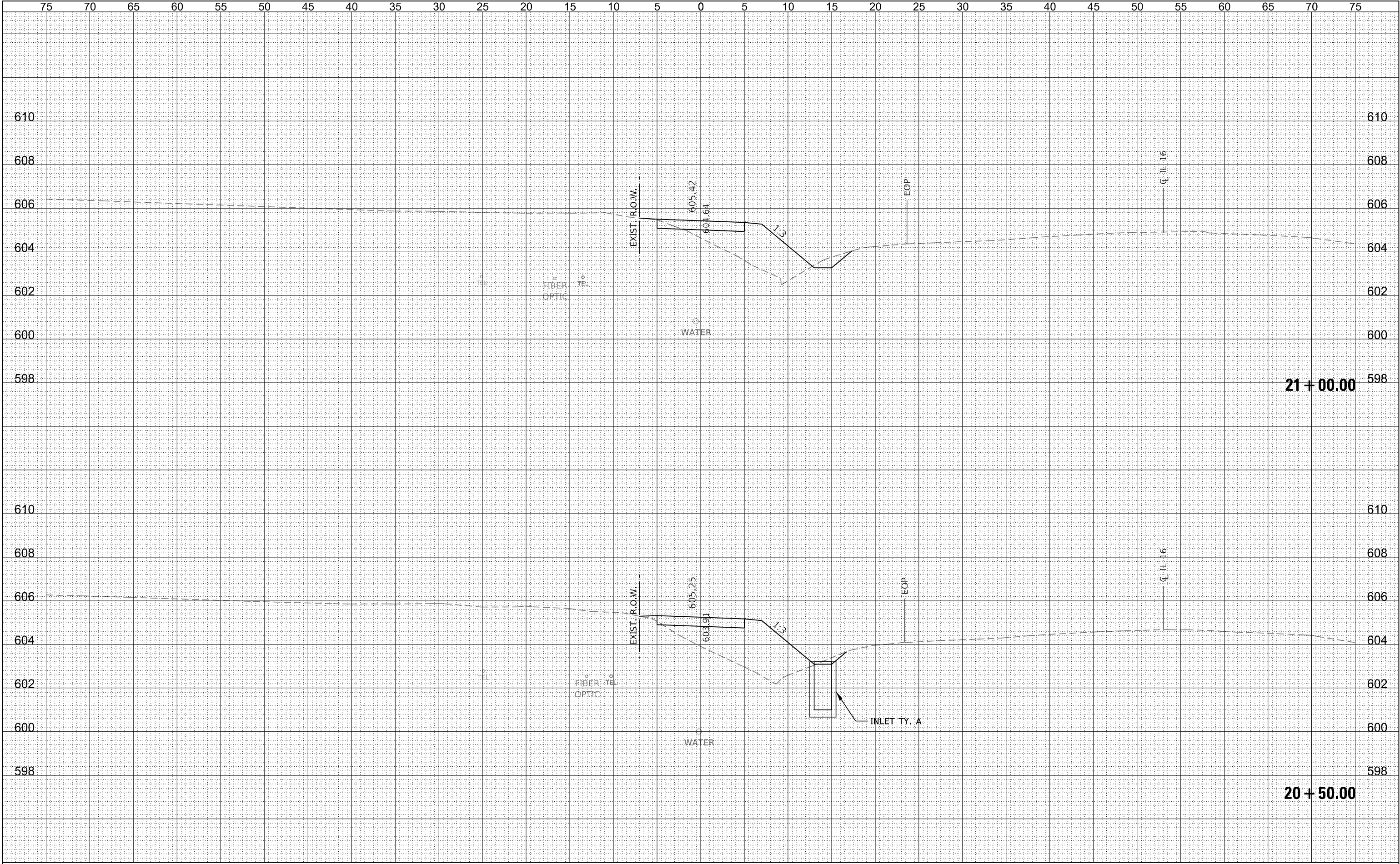
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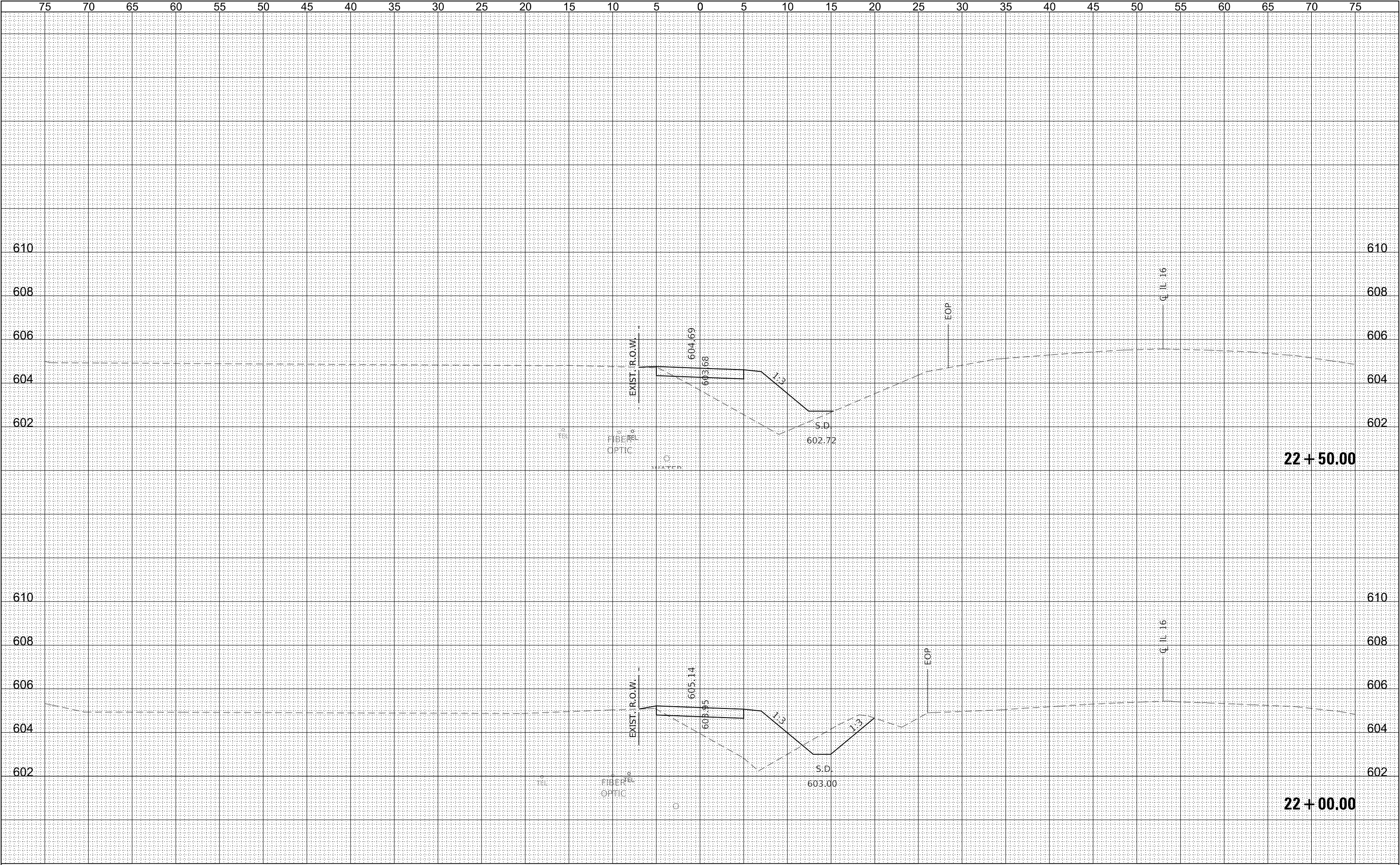
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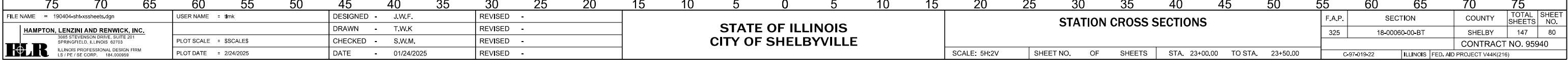


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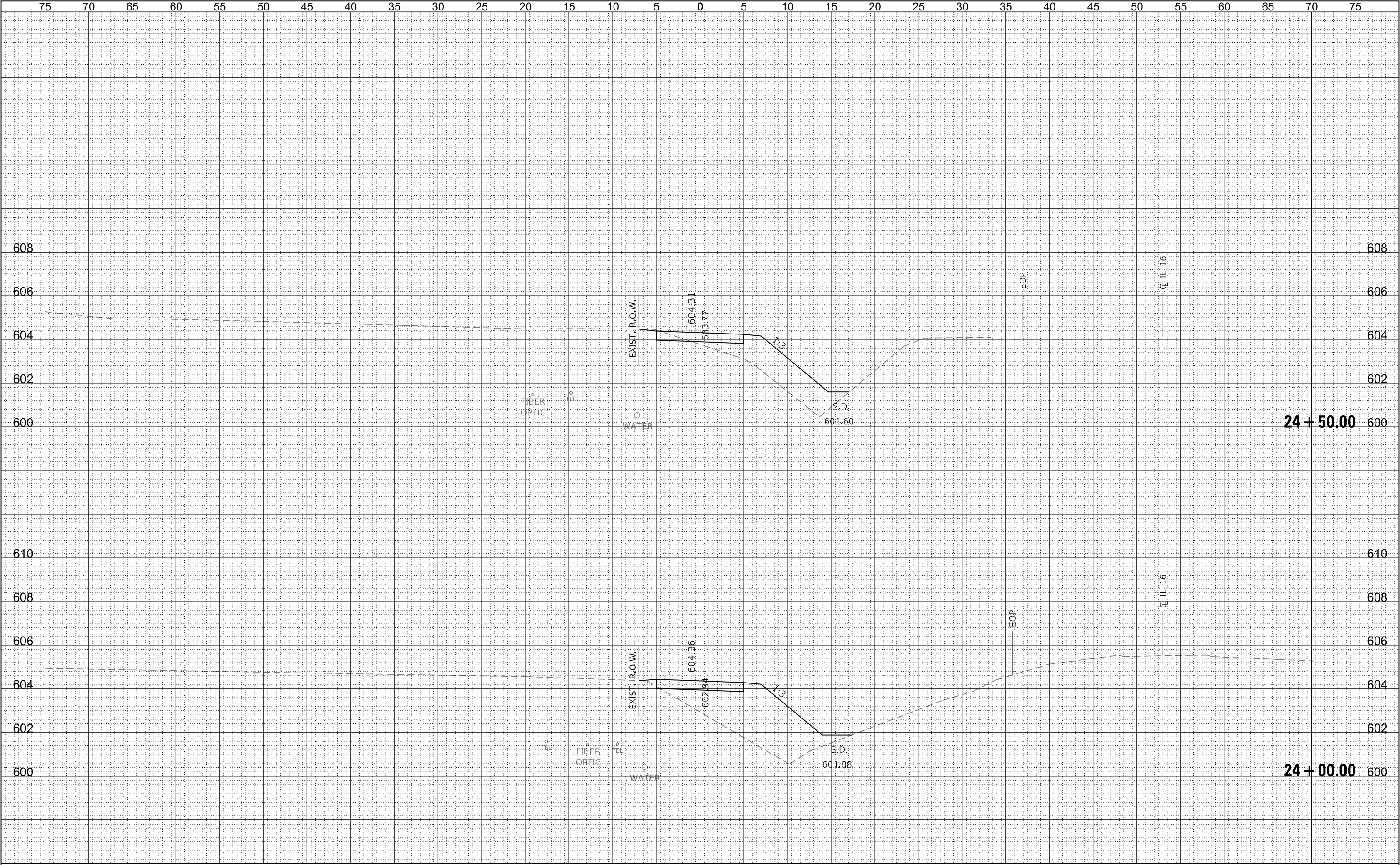


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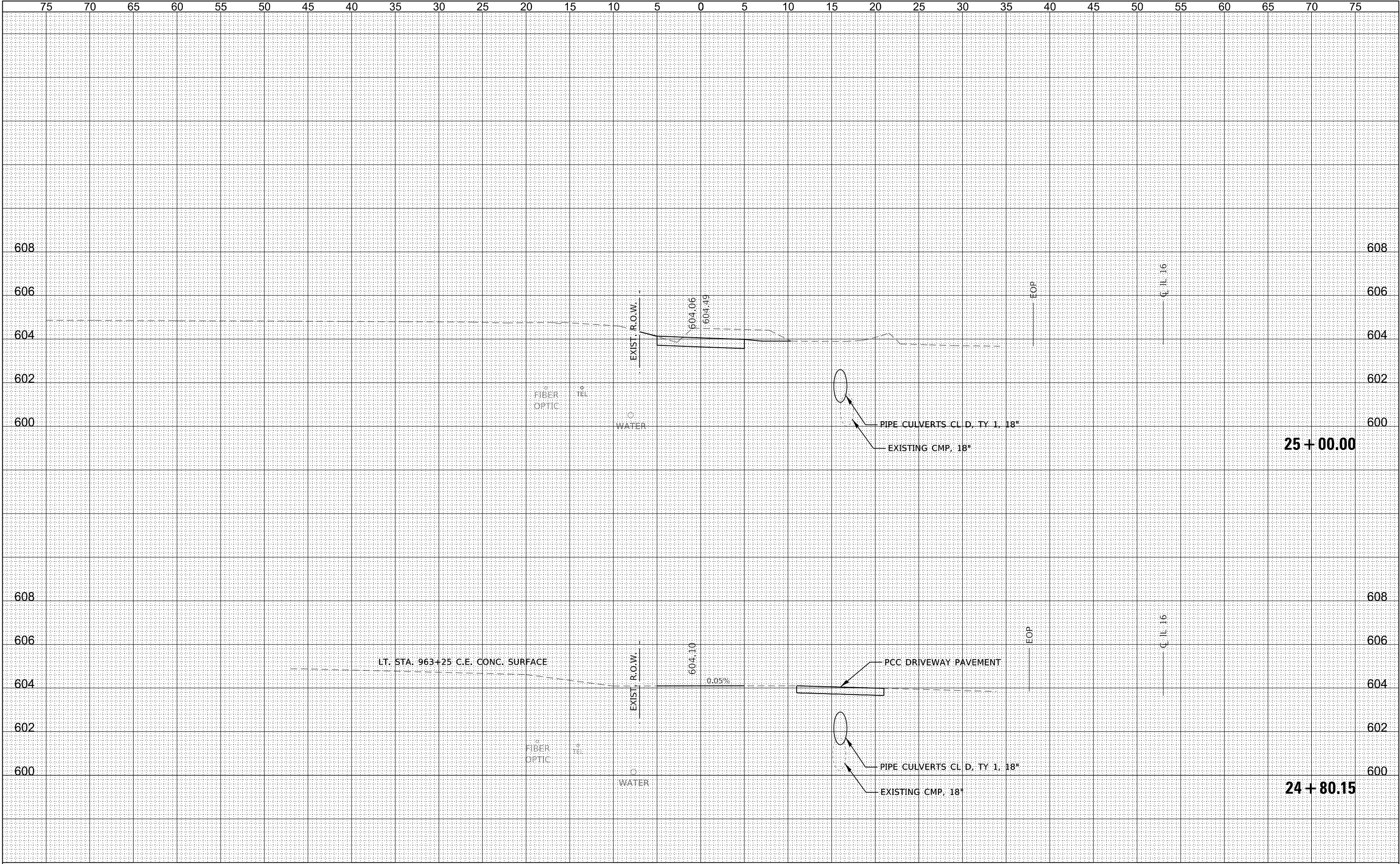
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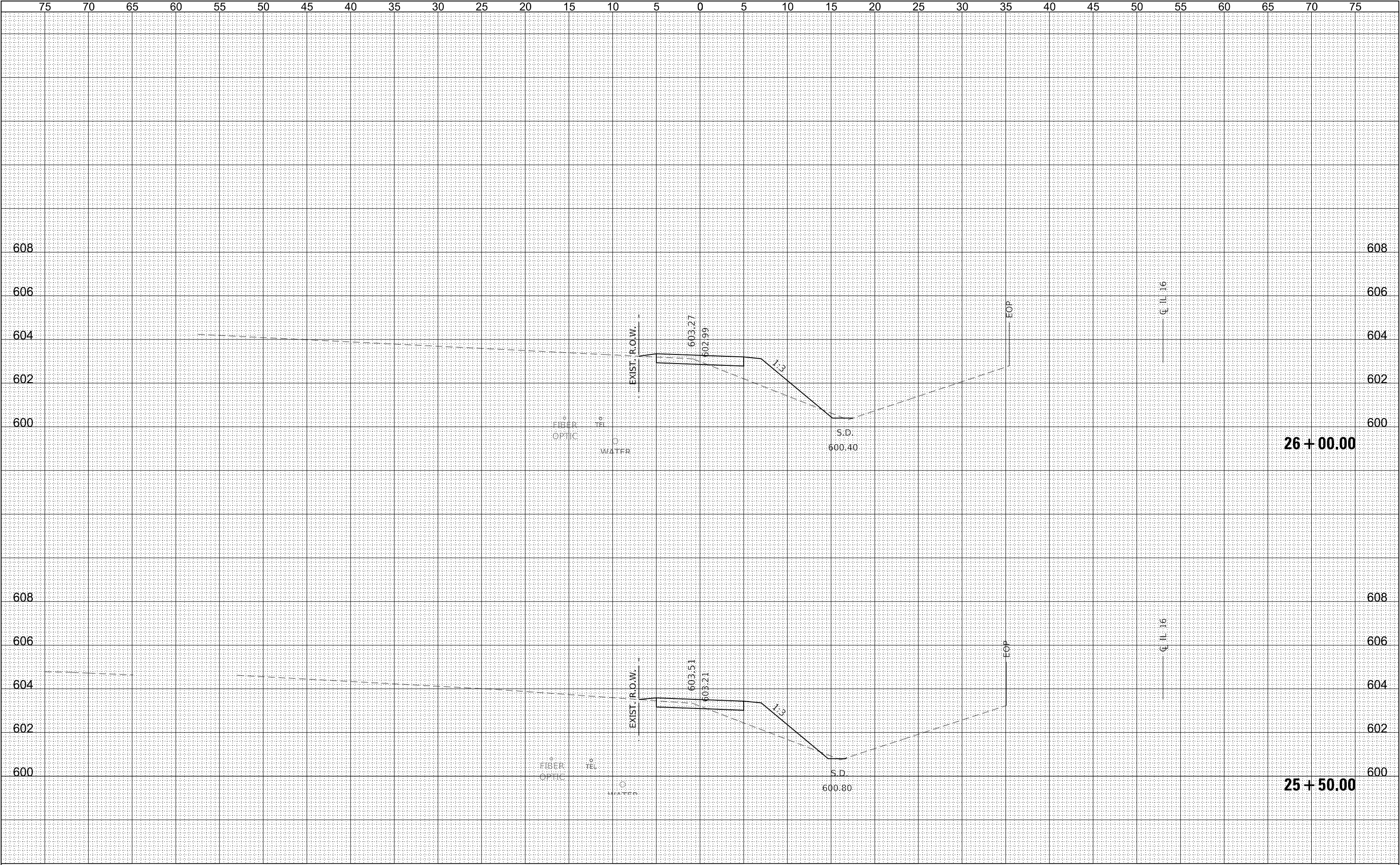
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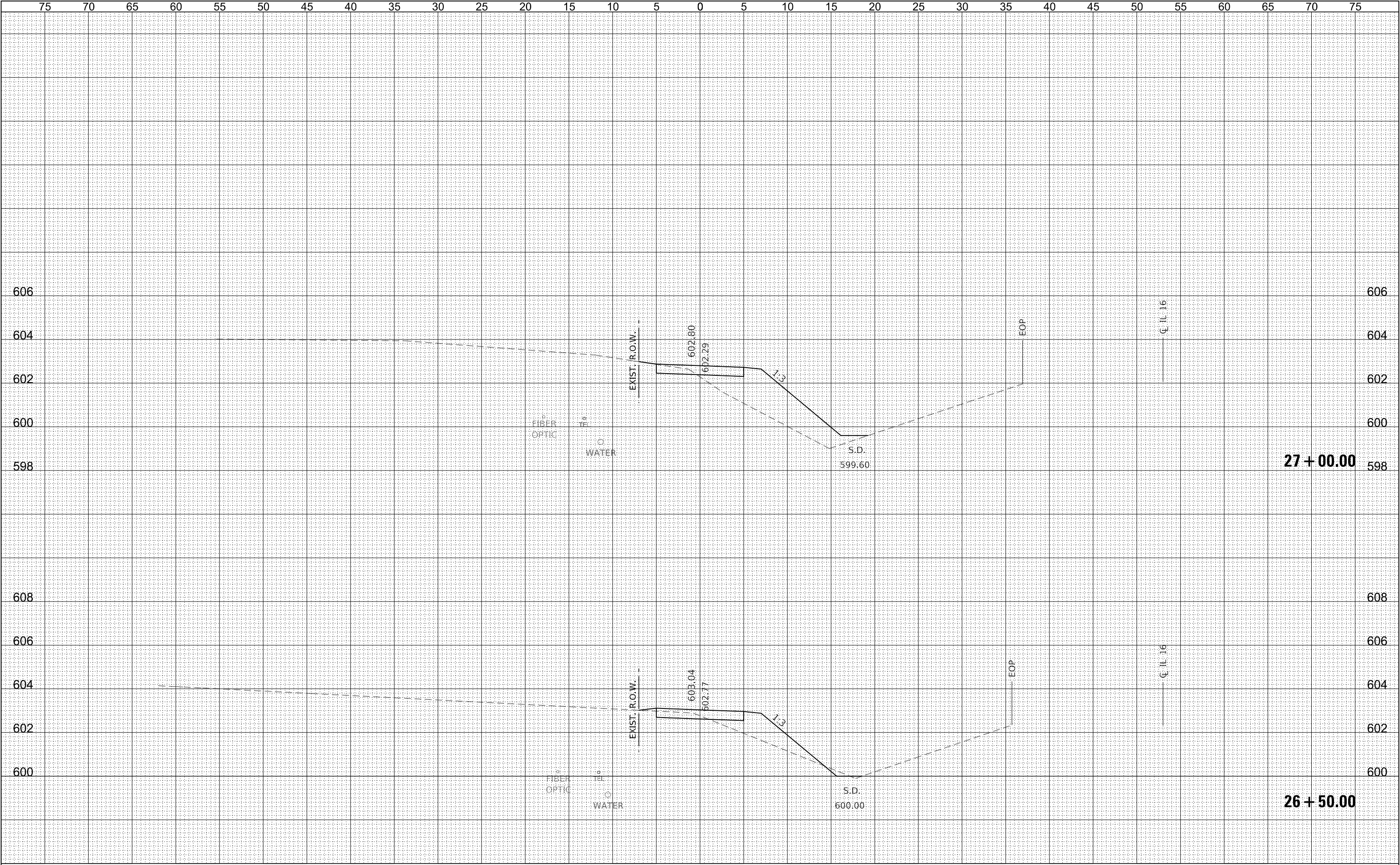
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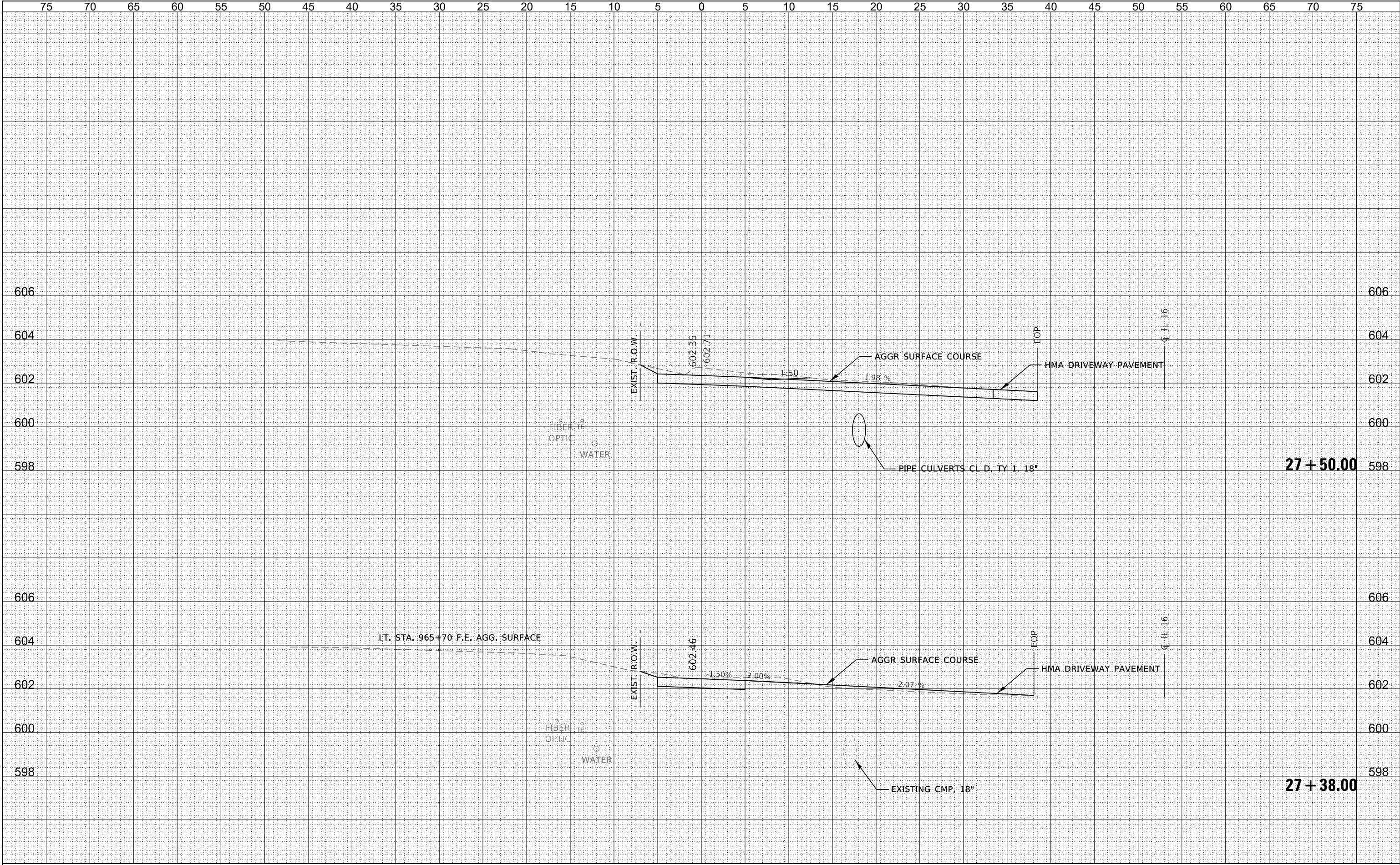
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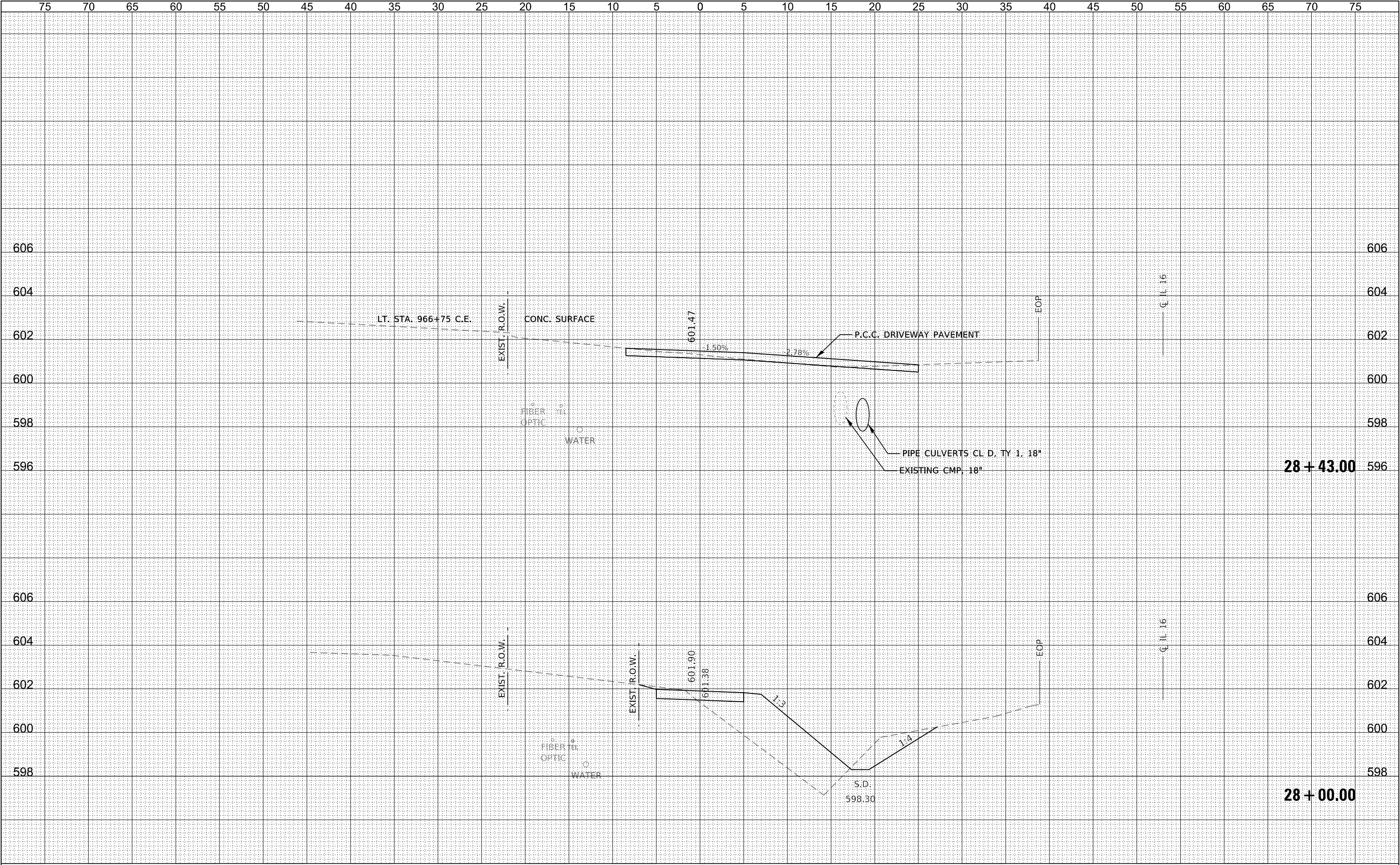
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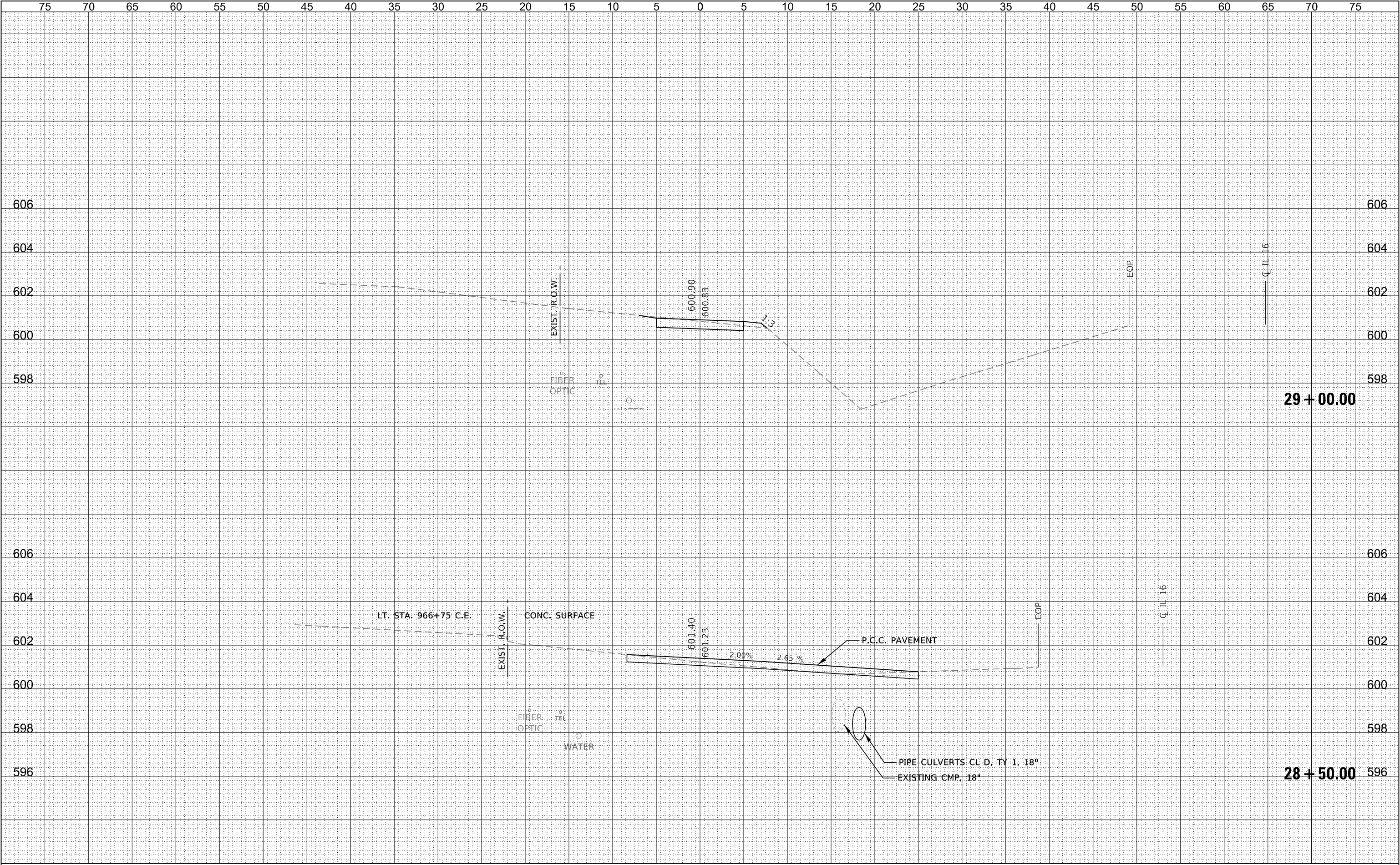
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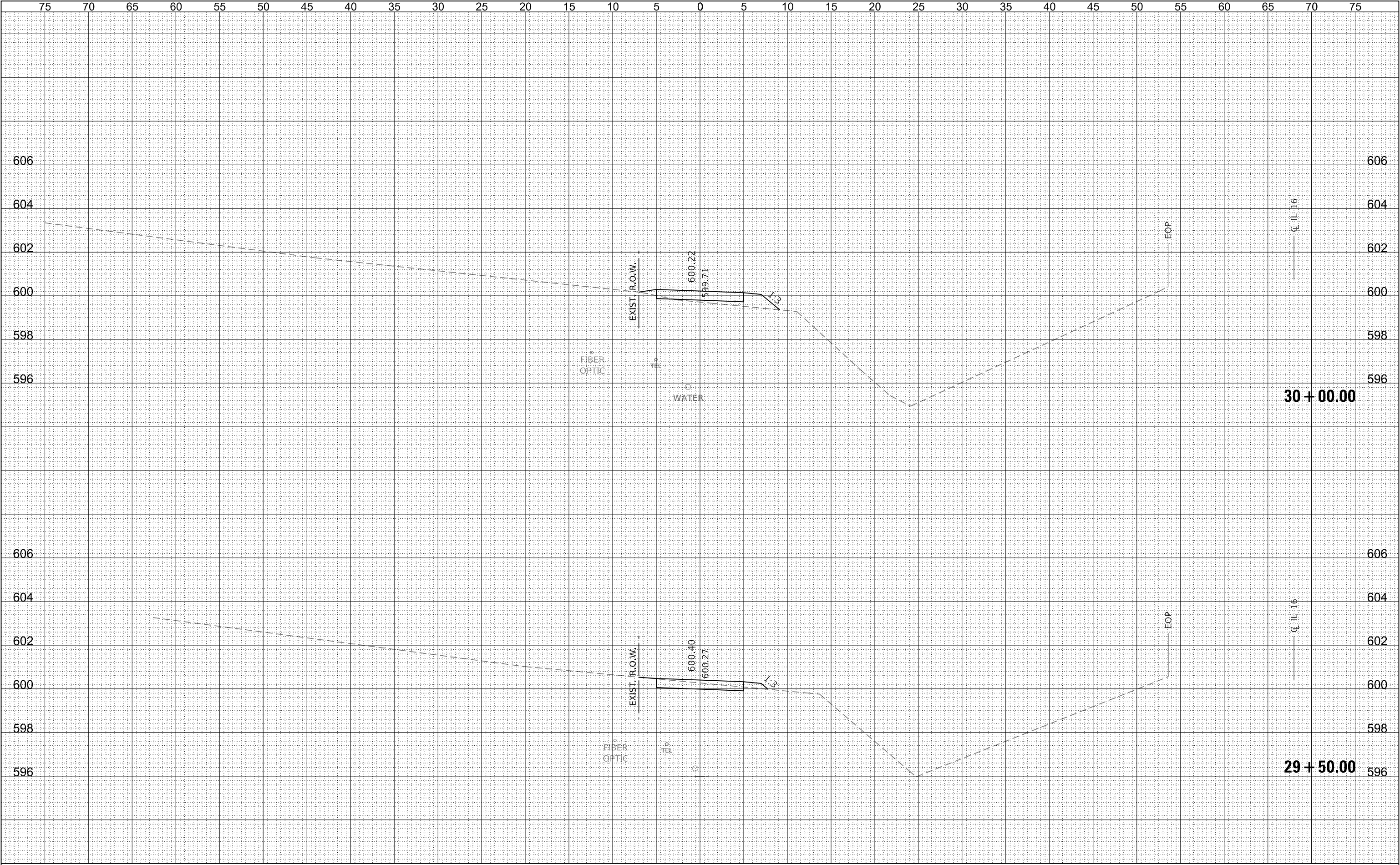
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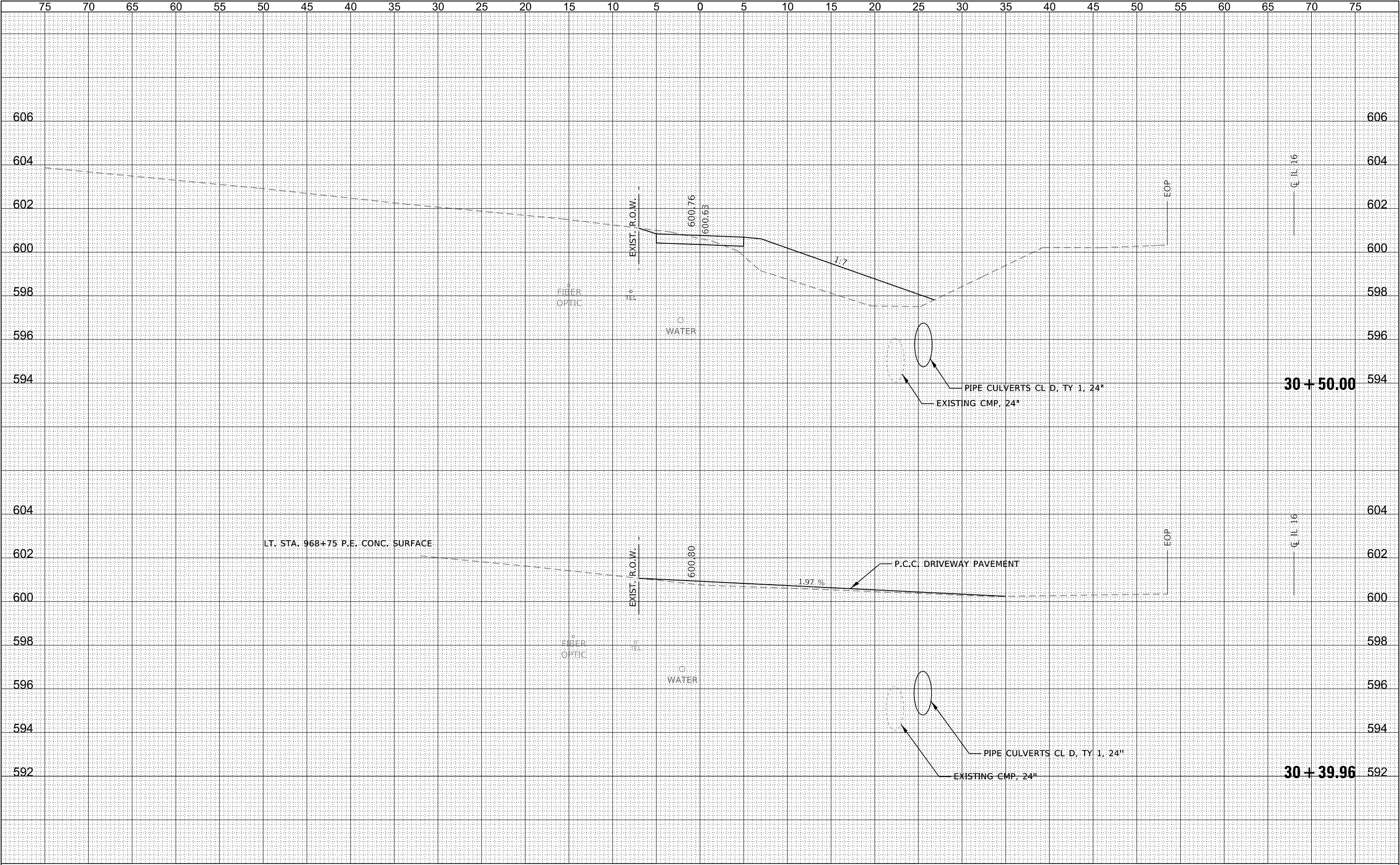
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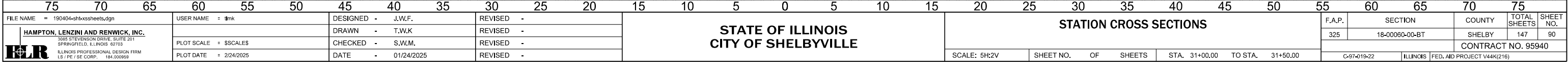
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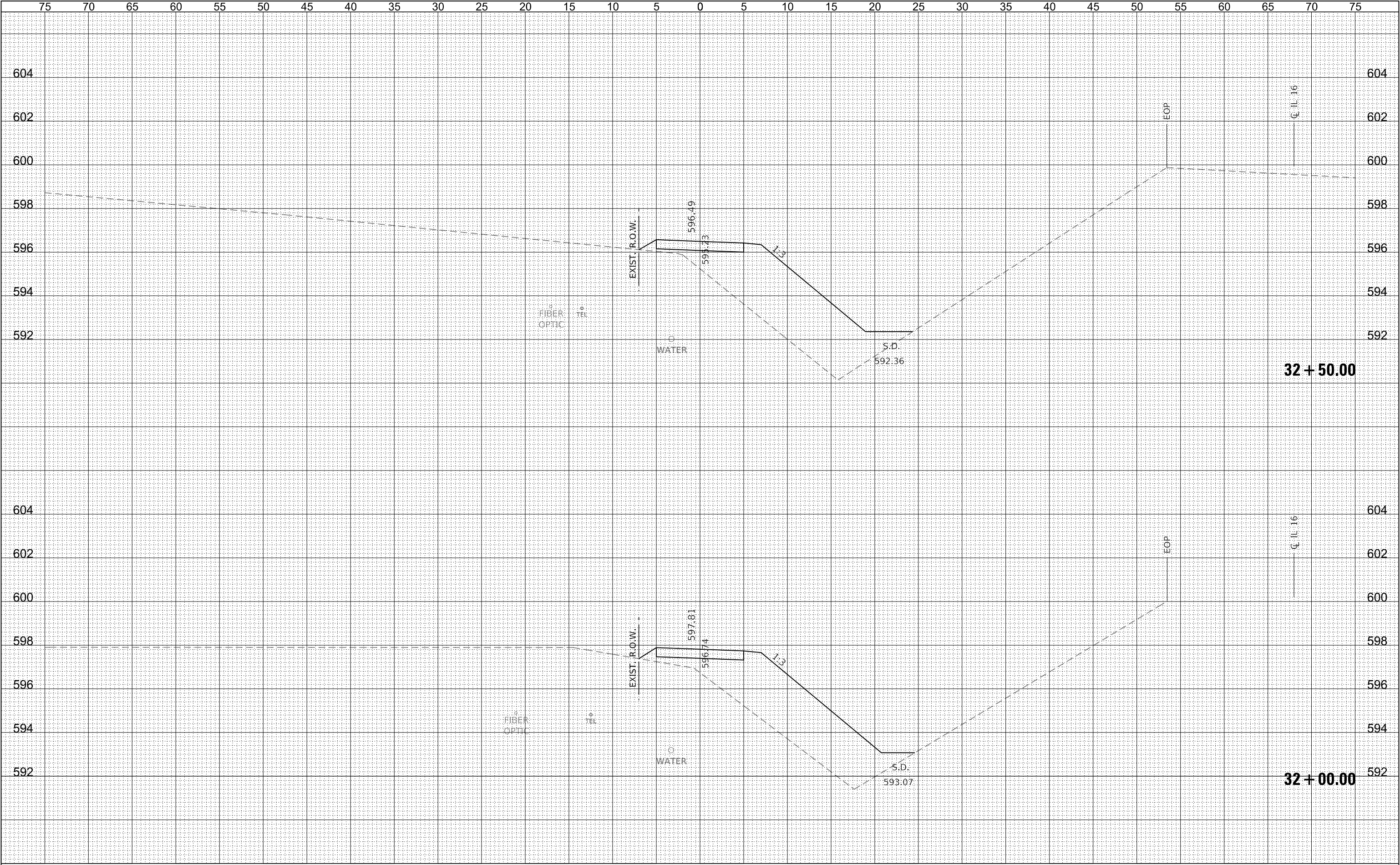
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 HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000958		PLOT SCALE = \$SCALES		DRAWN - T.W.K		REVISED -												325		18-00060-00-BT		SHELBY		147		89											
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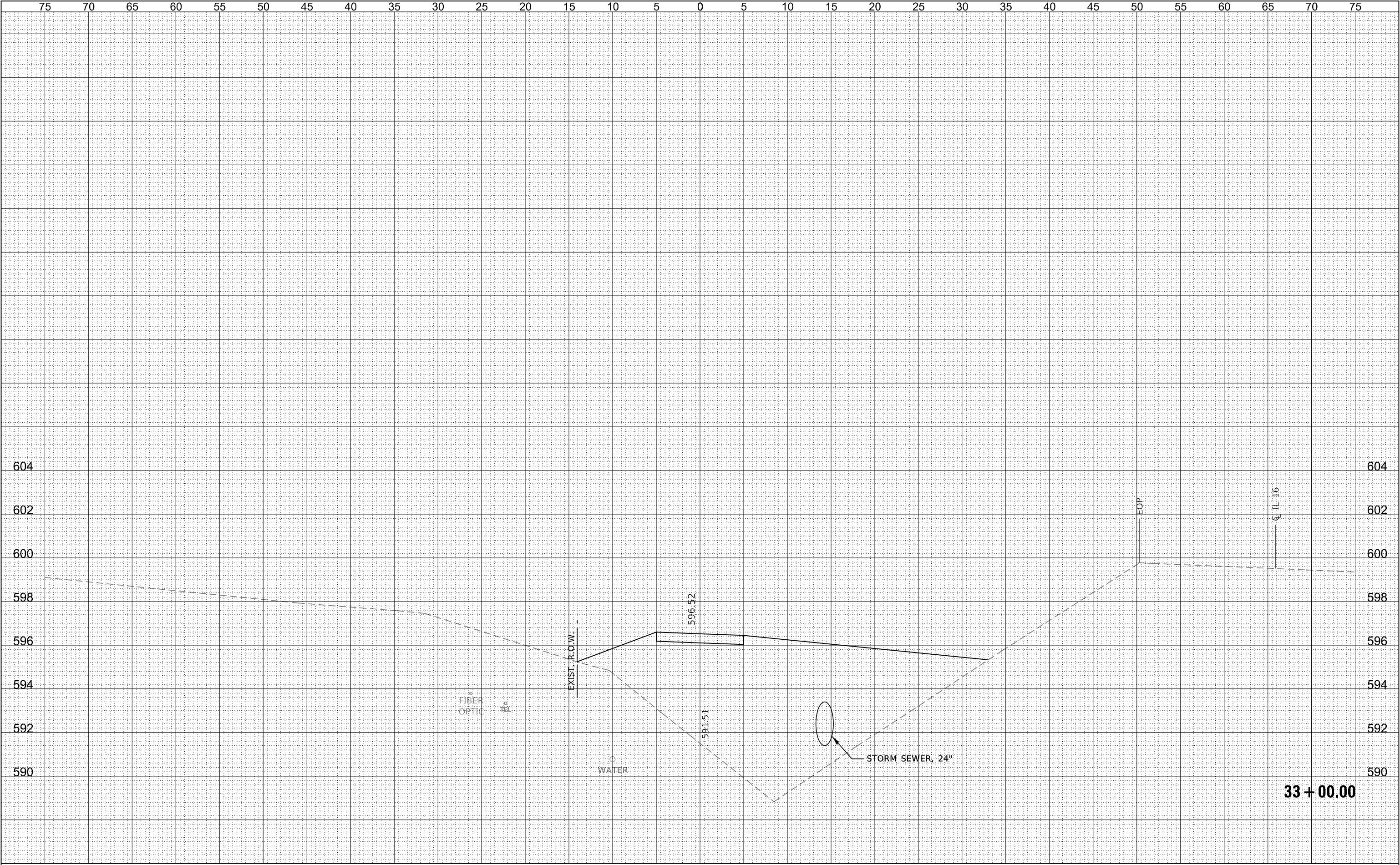
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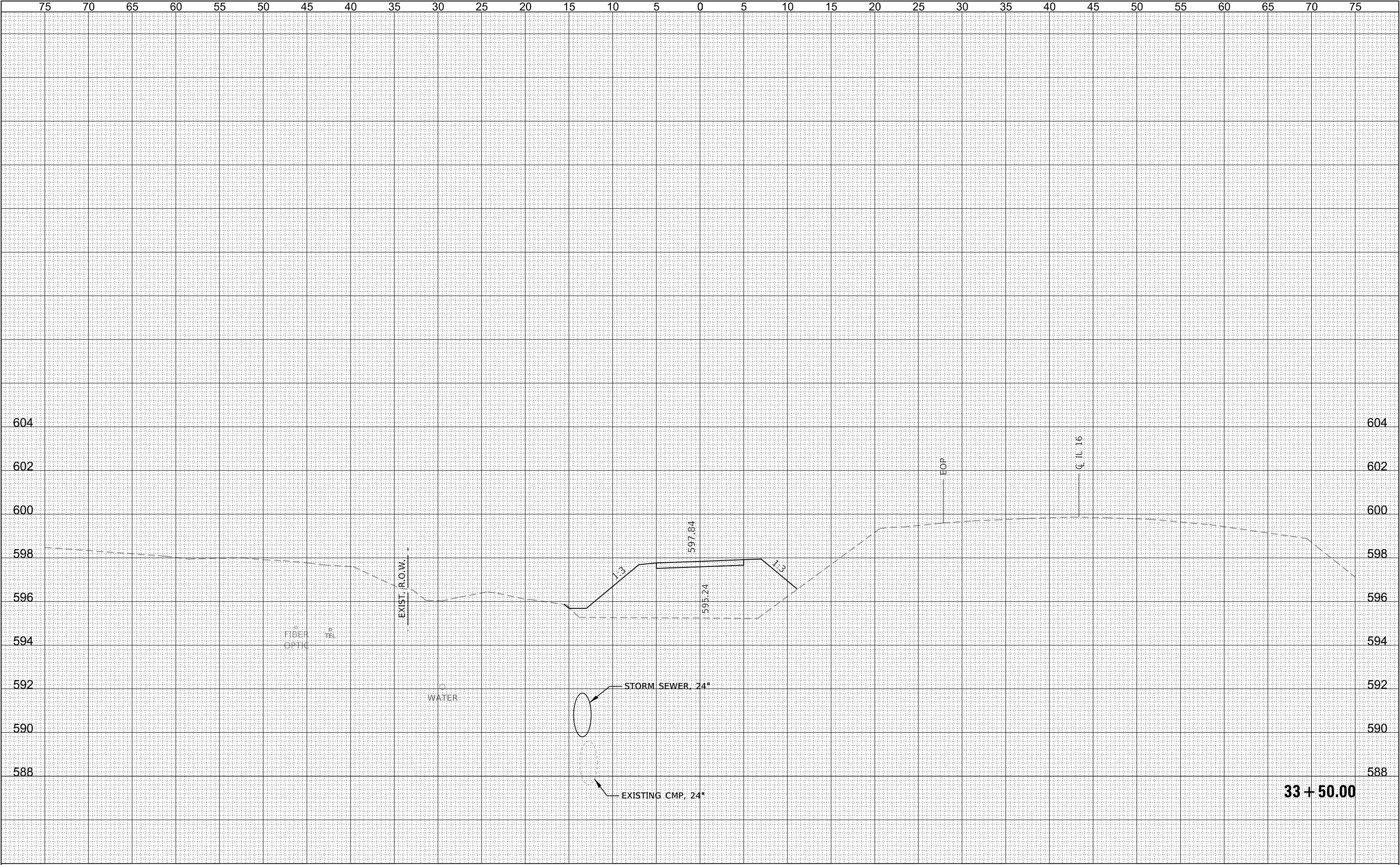
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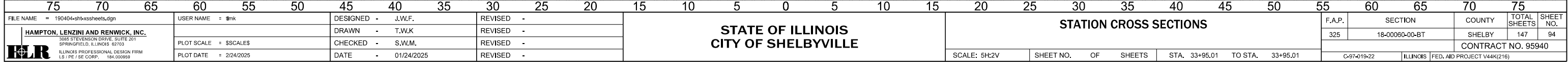


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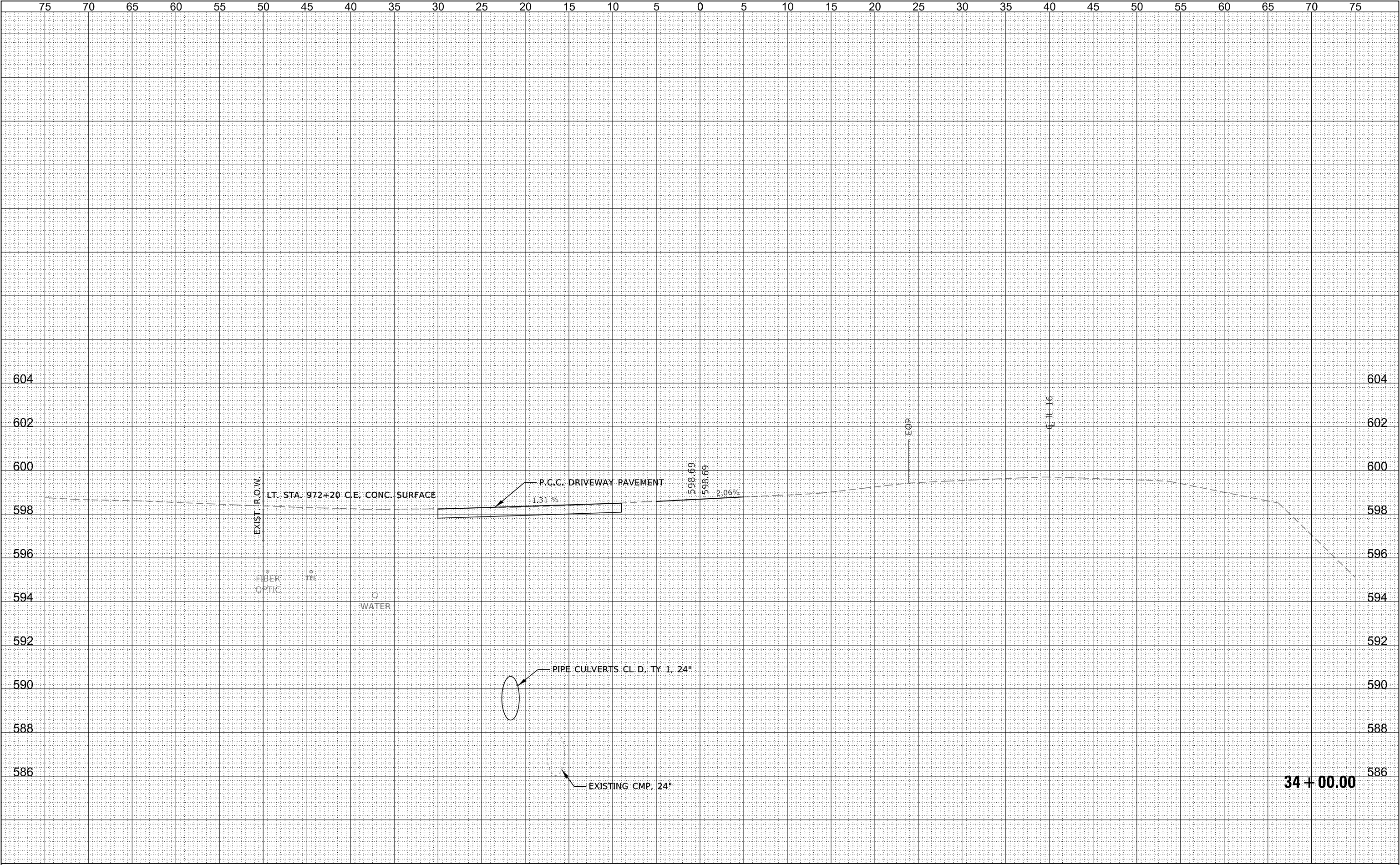


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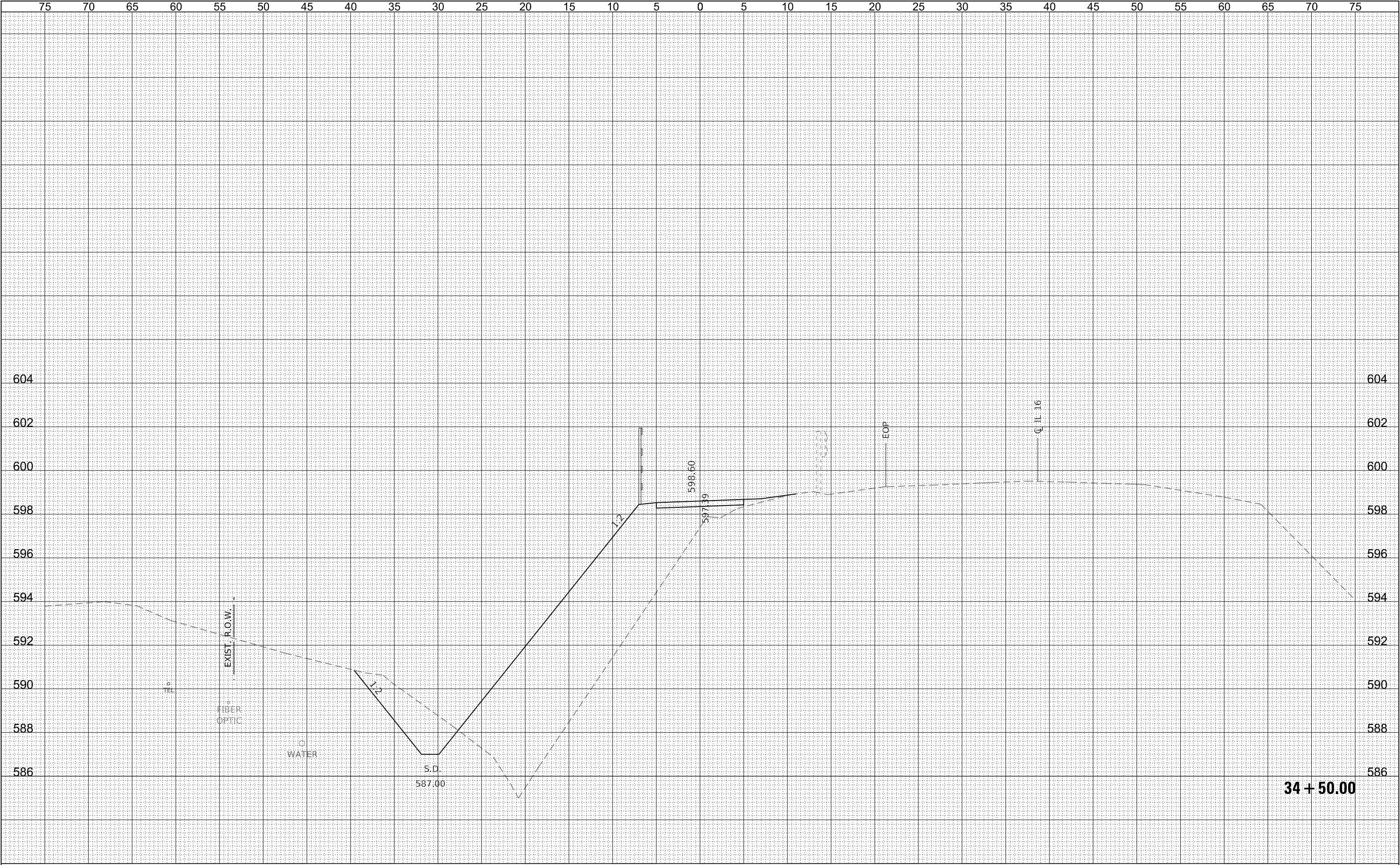
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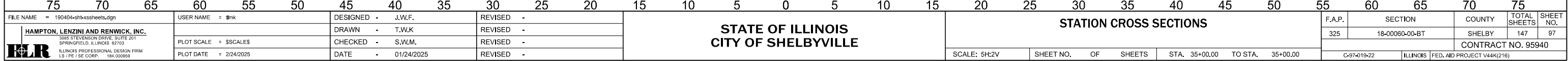
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DATE - 01/24/2025	REVISIED -	REVISED -	REVISED -									C-97-019-22	ILLINOIS	FED. AID PROJECT V44K(216)		
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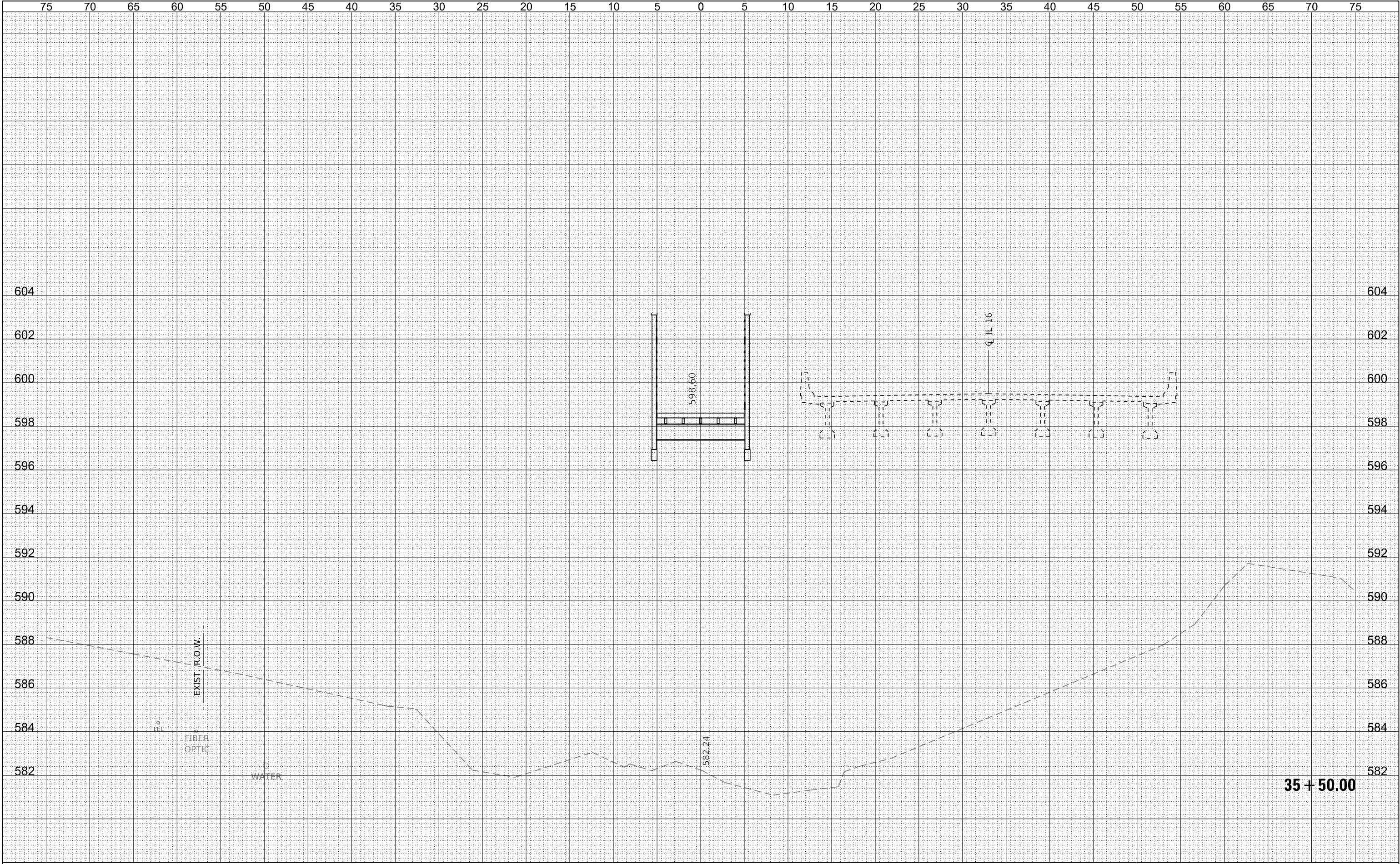
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NOTE BOOK			
No. _____			



F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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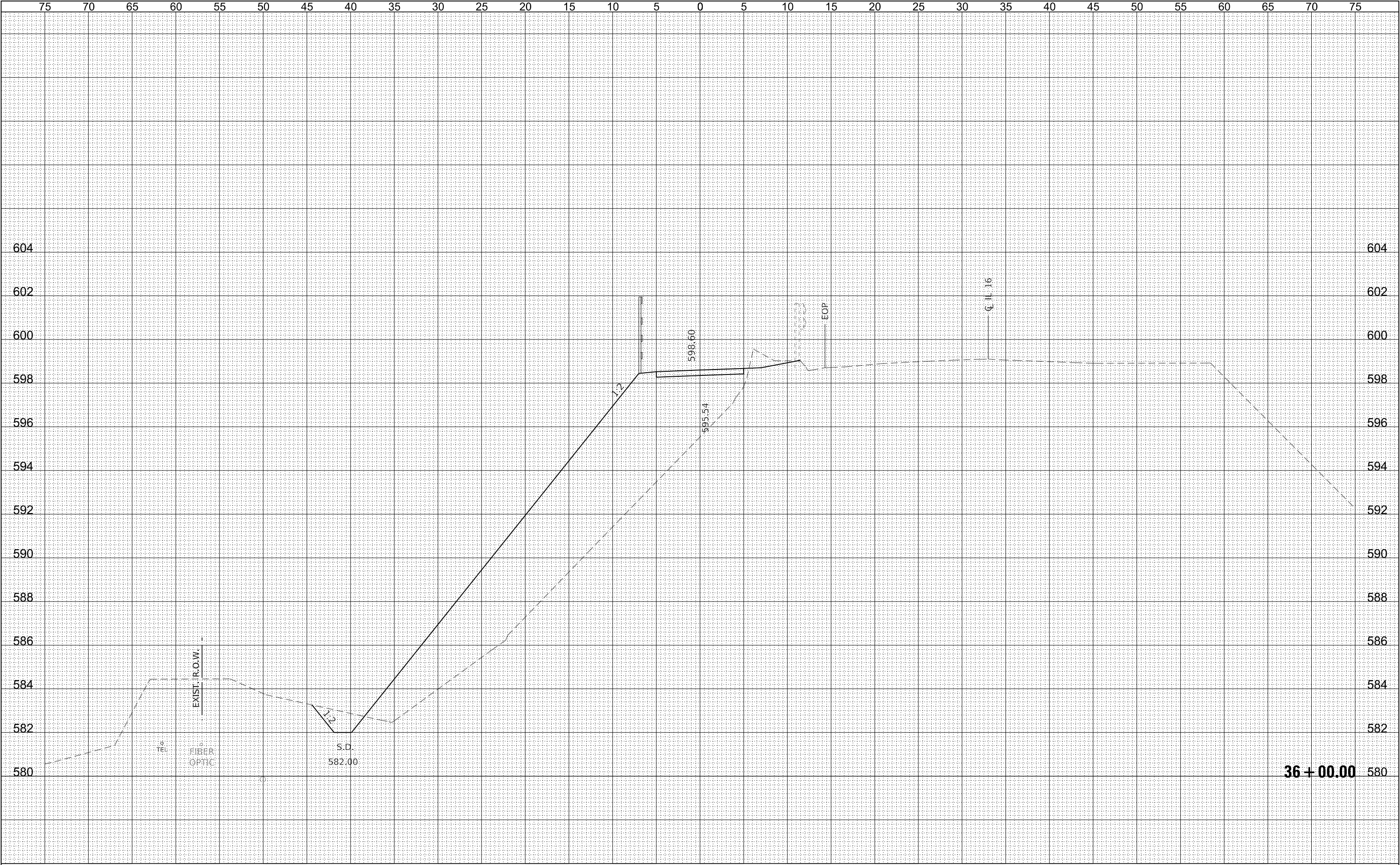
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 HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000958	PLOT SCALE = \$SCALES	DRAWN - T.W.K	REVISED -	325		18-00060-00-BT	SHELBY	147	99					
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