



CONSTRUCTION PLANS FOR WEST SECOND AVENUE ROADWAY AND DRAINAGE IMPROVEMENTS

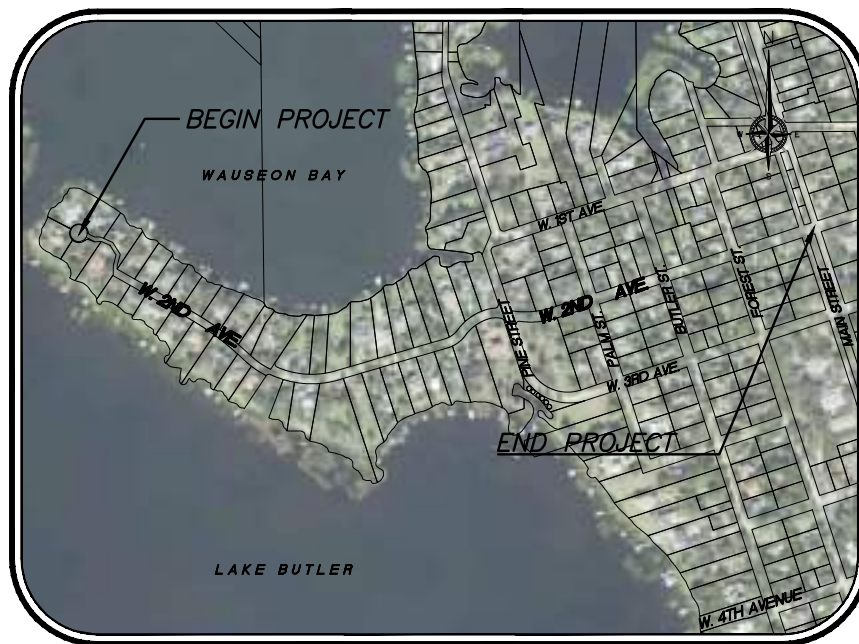
PROJECT NO. : 2023-02

TOWN OF WINDERMERE
WINDERMERE, FLORIDA

SOURCE OF BENCHMARK DATUM

ORANGE COUNTY ENGINEERING DEPARTMENT BENCHMARK
BENCHMARK R-260-007
PUBLISHED ELEVATION: 119.526' (NGVD 1929)

ORANGE COUNTY ENGINEERING DEPARTMENT BENCHMARK
BENCHMARK R-260-005
PUBLISHED ELEVATION: 106.701' (NGVD 1929)



VICINITY MAP
1"=500'

GOVERNING STANDARDS AND SPECIFICATIONS :
FLORIDA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS FOR DESIGN, CONSTRUCTION,
MAINTENANCE AND UTILITY OPERATIONS
ON THE STATE HIGHWAY SYSTEM, DATED
AND
STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION, LATEST EDITION
AS AMENDED BY CONTRACT DOCUMENTS.

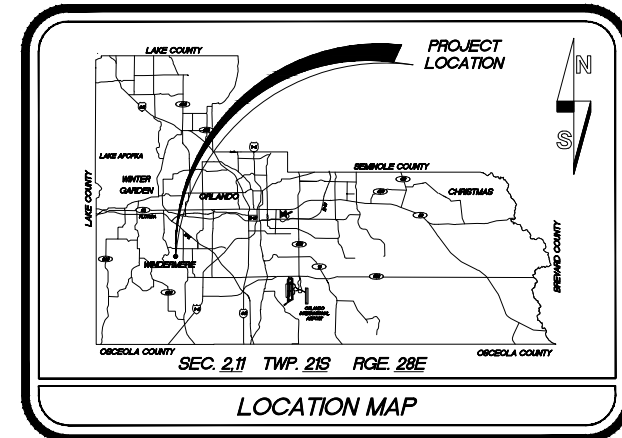
NOTE

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE TOWN'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE TOWN'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

CERTIFICATION TO PLANS

I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE 'MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS' IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

DATE: 11/2023 ENGINEER: MICHAEL B. GALURA P.E. REG. NO.: 41728



LOCATION MAP

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UTILITIES ENCOUNTERED

POWER: DUKE ENERGY 1-800-700-8744
PHONE: CENTURY LINK 407-814-5393
WATER: UTILITIES INC. OF FLORIDA 407-869-1919
SEWER: NONE
GAS: LAKE APOPKA NATURAL GAS DISTRICT 407-656-2734
CATV: BRIGHT HOUSE NETWORK 407-532-8509

PREPARED BY:

MGEC MICHAEL GALURA
ENGINEERING
CONSULTANTS, LLC

3222 Corrine Drive, Suite H 407/493-9983
Orlando, Florida 32803 <http://www.mgaluraengineeringconsult.com>
CERTIFICATE OF AUTHORIZATION NO. 29032

BID SET PLANS

PLAN DATE: NOVEMBER 2023

PROJECT LENGTH:	FEET	MILES
ROADWAY:	4,356	0.825
BRIDGES:	0	0
TOTAL LENGTH:	4,356	0.825

MAYOR JIM O'BRIEN

TOWN MAYOR

TOWN COUNCIL

TONY DAVIT
LOREN "ANDY" WILLIAMS
MOLLY ROSE
MANDY DAVID
TOM STROUP
ROBERT SMITH
TONYA ELLIOTT-MOORE

COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER
TOWN MANAGER
PUBLIC WORKS DIRECTOR

REVISIONS

DATE BY

DESIGNED BY: MBG DATE: 11/2023
DRAWN BY: CADD DATE: 11/2023
CHECKED BY: MBG DATE: 11/2023
APPROVED BY: MBG DATE: 11/2023
PROJECT NO: TOW-052.01.000

SHEET 1
OF 86



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORRINE DRIVE, SUITE H
ORLANDO, FL 32803
CERTIFICATE OF AUTHORIZATION: 29032
MICHAEL B. GALURA, P.E., NO. 41728

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES
4	SUMMARY OF PAY ITEMS AND NOTES
5-6	TYPICAL SECTIONS
7-8	DRAINAGE BASIN MAP
9-15	TOPOGRAPHIC SURVEY (EXCLUDED - FOR REFERENCE ONLY)
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20-28	PLAN AND PROFILE - WEST SECOND AVENUE
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79	STANDARD DETAILS - INDEX NO. 425-010
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83	STANDARD DETAILS - INDEX NO. 425-041
84	STANDARD DETAILS - INDEX NO. 443-001
85	STANDARD DETAILS - INDEX NO. 520-001
86	PAVEMENT MARKING FOR SPEED HUMP

REV.	DATE	DESCRIPTION	APP'D BY	OTHERS	SIGN OFF	DATE	FIELD:
					CLIENT		PEC SURVEYING AND MAPPING, LLC
					PM/CM BC		DRAWN BY: CADD
					PM/CM DM		DESIGNED BY: MBG
					PM		CHECKED BY: MBG
					CM		DATE: NOVEMBER 2023

MGEC MICHAEL GALURA
ENGINEERING
CONSULTANTS, LLC
3222 Corrine Drive, Suite H
Orlando, Florida 32803 407/493-9983
CERTIFICATE OF AUTHORIZATION NO. 29032



TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-052.01.000
FILE NAME: SEE LEFT MARGIN
ARCHIVE DISC:
SCALE: NONE

SIGNATURE SHEET

SUMMARY OF PAY ITEMS

PAY ITEM NOTES

NO.	PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY TOTAL	
				PLAN	FINAL
ROADWAY AND DRAINAGE IMPROVEMENTS PAY ITEMS					
1.	101-1	MOBILIZATION AND DEMOBILIZATION	LS	1	
2.	101-2	SURVEY, CONSTRUCTION LAYOUT AND CERTIFIED AS-BUILT	LS	1	
3.	102-1	MAINTENANCE OF TRAFFIC	LS	1	
4.	104-14	PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1	
5.	110-1-1	CLEARING AND GRUBBING	LS	1	
6.	110-7-1	MAILBOX, F&I, SINGLE	EA	46	
7.	120-9	EXCAVATION, EMBANKMENT AND GRADING	LS	1	
8.	160-4	TYPE B STABILIZATION (12") (MIN LBR 40)	SY	12,646	
9.	205-704	GRADED CRUSHED CONCRETE AGGREGATE BASE COURSE (8")	SY	12,646	
10.	327-70-6	MILLING EXISTING ASPHALT PAVEMENT, 1-1/2" AVG DEPTH	SY	1,440	
11.	334-1-13	TYPE SP 9.5 ASPHALT CONCRETE FRICTION COURSE (1-1/2") (165 LB PER SY) (TRAFFIC LEVEL C)	TN	817	
12.	400-15	CONCRETE, CLASS NS, MISCELLANEOUS	CY	10	
13.	425-1-351	INLETS CURB, TYPE P-5, <10'	EA	14	
14.	425-1-451	INLETS CURB, TYPE J-5, <10'	EA	1	
15.	425-1-521	INLETS, DITCH BOTTOM, TYPE C, <10'	EA	11	
16.	425-1-541	INLETS, DITCH BOTTOM, TYPE D, <10'	EA	1	
17.	425-1-549	INLETS, DITCH BOTTOM, TYPE D, MODIFY	EA	1	
18.	425-1-711	INLETS, GUTTER TYPE V, <10'	EA	12	
19.	425-2-4	MANHOLE, P-7, <10'	EA	2	
20.	430-175-118	PIPE CULVERT, CONCRETE, CLASS III, ROUND, 18"	LF	893	
21.	430-175-124	PIPE CULVERT, CONCRETE, CLASS III, ROUND, 24"	LF	47	
22.	430-94-1	DESILT PIPE (0 TO 24")	LF	1,766	
23.	432-4	STORM SEWER VIDEO	LS	1	
24.	443-70-4	FRENCH DRAIN (24" SLOTTED RCP) (COMPLETE)	LF	873	
25.	520-1-7	CONCRETE CURB AND GUTTER, TYPE E	LF	123	
26.	520-1-10	CONCRETE CURB AND GUTTER, TYPE F	LF	126	
27.	520-1-13	CONCRETE CURB AND GUTTER, TYPE DROP	LF	6,888	
28.	520-2-4	CONCRETE CURB, TYPE D	LF	44	
29.	520-2-6	CONCRETE CURB (12"x12" RIBBON CURB)	LF	916	
30.	520-3	VALLEY GUTTER, CONCRETE	LF	391	
31.	522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	64	
32.	522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	1,044	
33.	522-3	BRICK PAVER DRIVEWAY	SY	232	
34.	522-4	CURB, RAMP, ADA, 6" THICK CONCRETE	SY	16	
35.	522-6	SPEED HUMP (COMPLETE WITH THERMOPLASTIC MARKINGS)	EA	7	
36.	527-2	DETECTABLE WARNINGS	SF	66	
37.	570-1-2	PERFORMANCE TURF (SOD) (MATCH EXISTING)	SY	8,265	
38.	580-9-11	REMOVE EXISTING TREE, INCLUDING STUMP, 8"-24" DIAMETER	EA	4	
39.	700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	22	
40.	700-1-50	SINGLE POST SIGN, RELOCATE	AS	5	
41.	706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	5	
42.	711-11-123	THERMOPLASTIC, STANDARD WHITE, SOLID, 12"	LF	49	
43.	711-11-125	THERMOPLASTIC, STANDARD WHITE, SOLID, 24"	LF	148	
OCU WATER MAIN IMPROVEMENTS PAY ITEMS					
44.	1050-11-221	F&I WATER MAIN, 4" RESTRAINED JOINT, COMPLETE INCLUDING FITTING	LF	440	
45.	1050-16-423	F&I WATER MAIN, 8" DUCTILE IREON, COMPLETE INCLUDING FITTINGS	LF	2,341	
46.	1050-16-221	REMOVE AND DISPOSE OF EXISTING 4" WATER MAIN	LF	368	
47.	1050-16-222	REMOVE AND DISPOSE OF EXISTING 6" WATER MAIN	LF	1,859	
48.	1050-16-223	REMOVE AND DISPOSE OF EXISTING 8" WATER MAIN	LF	466	
49.	1051-4	REPLACE 1" WATER SERVICE LATERAL, SHORT SIDE	EA	22	
50.	1051-5	REPLACE 1" WATER SERVICE LATERAL, LONG SIDE	EA	19	
51.	1080-24-104	F&I GATE VALVE ASSEMBLY, 4" COMPLETE	EA	2	
52.	1080-24-106	F&I GATE VALVE ASSEMBLY, 6" COMPLETE	EA	3	
53.	1080-24-108	F&I GATE VALVE ASSEMBLY, 8" COMPLETE	EA	38	
54.	1080-25-104	F&I 4" BLOWOFF ASSEMBLY, COMPLETE (PERMANENT)	EA	1	
55.	1080-25-108	F&I 8" BLOWOFF ASSEMBLY, COMPLETE (TEMPORARY)	EA	9	
56.	1080-25-600	BLOWOFF ASSEMBLY, REMOVE	EA	1	
57.	1080-26-108	F&I AIR RELEASE VALVE ASSEMBLY, 8" COMPLETE	EA	3	
58.	1080-27-104	UTILITY FIXTURE - LINE STOP ASSEMBLY, FURNISH AND INSTALL, 4"	EA	1	
59.	1080-27-106	UTILITY FIXTURE - LINE STOP ASSEMBLY, FURNISH AND INSTALL, 6"	EA	2	
60.	1080-27-108	UTILITY FIXTURE - LINE STOP ASSEMBLY, FURNISH AND INSTALL, 8"	EA	10	
61.	1080-28-104	CUT-IN CONNECTION TO EXISTING 4" WM	EA	1	
62.	1080-28-108	CUT-IN CONNECTION TO EXISTING 8" WM	EA	10	
63.	1644-116-08	F&I FIRE HYDRANT ASSEMBLY, COMPLETE WITH 6" GATE VALVE AND BOX	AS	3	
64.	1644-900	FIRE HYDRANT, REMOVE EXISTING FIRE HYDRANT	AS	3	

101-1 THIS PAY ITEM INCLUDES THE COST OF ALL LABOR AND ITEMS FOR MOBILIZATION AND DEMOBILIZATION AS WELL AS DEWATERING. THIS INCLUDES BUT IS NOT LIMITED TO OPERATIONS NECESSARY FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES AND INCIDENTALS TO THE PROJECT AND FOR THE ESTABLISHMENT OF SAFETY EQUIPMENT, TO MAINTAIN A DRY WORK ZONE, SANITARY AND OTHER FACILITIES NECESSARY TO COMPLETE THE WORK. THIS INCLUDES THE COST OF SUBMITTAL OF A DEWATERING PLAN AND SHEETING AND SHORING PLAN TO THE ENGINEER AND THE TOWN OF WINDERMERE FOR REVIEW. THESE PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE DEWATERING AND SHEETING AND SHORING PLAN SUBMITTALS MUST INCLUDE THE DETERMINATION OF THE ZONE OF INFLUENCE AND DEMONSTRATE NO ADVERSE IMPACTS TO ADJACENT PROPERTIES. THE DEWATERING PLAN SHALL ALSO COMPLY WITH CHAPTER 40C-2, F.A.C. AND THE SFWMD REGULATIONS FOR CONSUMPTIVE USE PERMITS (CUP) AND COMPLIANCE FORMS (IF APPLICABLE). CONTRACTOR SHALL ALSO PROVIDE A PRE-CONSTRUCTION VIDEO AND PROOF OF WRITTEN NOTIFICATION OF THE RESIDENTS THAT COULD POTENTIALLY BE IMPACTED BY THE TEMPORARY SHEETING AND SHORING AND THE COST SHALL BE INCLUDED IN THIS PAY ITEM.

102-1 INCLUDES ALL ITEMS OF MAINTENANCE OF TRAFFIC INCLUDING BUT NOT LIMITED TO THE DESIGN OF THE REVISIONS TO THE MAINTENANCE OF TRAFFIC PLAN BY THE CONTRACTOR AND APPROVAL OF THE REVISED PLANS BY THE TOWN OF WINDERMERE. ALSO INCLUDES ALL TEMPORARY AND PERMANENT STRIPING, REMOVAL OF EXISTING AND TEMPORARY STRIPING BY HYDRO BLASTING, SIGNING, FLAGGERS, ETC., REQUIRED TO MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND THE FDOT ROADWAY AND DESIGN STANDARDS (LATEST EDITION). IN ADDITION, THIS PAY ITEM SHALL INCLUDE COORDINATION WITH ACCOMMODATING VEHICULAR AND PEDESTRIAN INGRESS AND EGRESS TRAFFIC FOR THE RESIDENTS ALONG WEST SECOND AVENUE. ATTENTION IS DIRECTED TO THE 102-600 SERIES INDEX NUMBERS (GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES). ANY REVISIONS TO THE MAINTENANCE OF TRAFFIC PLAN TO BE PREPARED BY THE CONTRACTOR OR HIS/HER DESIGNEE SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA. PAY ITEM ALSO INCLUDES ALL COORDINATION NEEDED TO ACCOMMODATE ALL CONSTRUCTION ACTIVITY IN THE PROJECT VICINITY. CONTRACTOR SHALL ANTICIPATE SOME MODIFICATIONS TO THE M.O.T. THAT MAY BE NEEDED AS PART OF THE COORDINATION ALONG THE PROJECT VICINITY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

104-14 THIS PAY ITEM INCLUDES THE COST OF ALL LABOR AND ITEMS REQUIRED FOR THE EROSION CONTROL INCLUDING BUT NOT BE LIMITED TO SYNTHETIC BALES, TURBIDITY BARRIERS, SILT FENCES, CURB INLET SEDIMENT BARRIERS AND TEMPORARY GRASSING AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. IT SHOULD BE NOTED THAT THIS PAY ITEM IS NOT IN THE FDOT MASTER PAY ITEM LIST (LATEST EDITION).

110-1-1 INCLUDES BUT IS NOT LIMITED TO THE COST FOR THE REMOVAL AND DISPOSAL OF CONCRETE CURBS; DRIVEWAYS; STRUCTURES; PIPES; LANDSCAPE WALLS; BRICK WALLS; VARIOUS TYPES OF FENCES; ASPHALT AND BRICK PAVEMENT; ROADWAY BASE REMOVAL; INCIDENTAL EXCAVATION AND GRADING; TREES AND SHRUBS; AND THE DISPOSAL OF ALL TREE AND SHRUB DEBRIS AS REQUIRED TO CONSTRUCT THE PROJECT. THIS PAY ITEM ALSO INCLUDES THE COST FOR THE SAW CUTTING OF EXISTING PAVEMENT AND CONCRETE. IN ADDITION, THIS PAY ITEM INCLUDES THE REMOVAL AND DISPOSAL OF EXISTING PAVEMENT, EXISTING CURB AND GUTTER AND EXISTING CONCRETE SIDEWALK WITHIN THE LIMITS OF CONSTRUCTION.

425- THIS PAY ITEM INCLUDES THE FURNISHING OF ALL MATERIALS AND LABOR TO COMPLETE THE WORK SHOWN IN THE PLANS, INCLUDING ALL EXCAVATION, ALL BACKFILLING AROUND THE STRUCTURES, THE REMOVAL AND DISPOSAL OF SURPLUS MATERIALS, AND THE FURNISHING AND PLACING OF ALL GRATINGS, FRAMES, COVERS, SPECIALTY APPURTENANCES, AND ANY OTHER NECESSARY FITTINGS FOR THE DRAINAGE STRUCTURES. ALL INLET GRATES SHALL BE STEEL GRATES (RETICULINE) PER INDEX NO. 425-041 AND 425-052 FDOT STANDARD PLANS (CURRENT FY). THE COST OF SUMP BOTTOM AND WEEP HOLE ARE TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE INLET OR MANHOLE.

430-175- THIS PAY ITEM INCLUDES THE FURNISHING OF ALL MATERIALS AND LABOR TO COMPLETE THE WORK AS SHOWN IN THE PLANS, INCLUDING ALL EXCAVATION (EXCEPT THE VOLUME INCLUDED IN THE MEASUREMENT DESIGNATED TO BE PAID FOR UNDER THE ITEMS FOR GRADING WORK); ALL BACKFILLING MATERIAL AND COMPACTION; DISPOSAL OF SURPLUS MATERIAL; JOINT MATERIAL AND ALL JOINT WRAPPING WITH FILTER FABRIC. IT SHOULD BE NOTED THAT THE SPECIFIC PAY ITEMS FOR "PIPE CULVERT, CONCRETE, CLASS III, ROUND/HORIZONTAL ELLIPTICAL" IS NOT IN THE FDOT MASTER PAY ITEM LIST (LATEST EDITION).

443-70-4 THE CONTRACT UNIT PRICE FOR FRENCH DRAINS, LF, SHALL INCLUDE THE COST OF THE SLOTTED PIE, NON-SLOTTED PIPE, PIPE FITTING, COARSE AGGREGATE AND FILTER FABRIC, IN PLACE, AND THE COST FOR TRENCH EXCAVATION, BACKFILL AND COMPACTION. THE UNIT PRICE SHALL ALSO INCLUDE THE COST FOR THE DISPOSAL OF SURPLUS EXCAVATED MATERIAL AND THE COST OF RESTORATION OF ANY PAVEMENT REMOVED OR DAMAGED BY THE CONSTRUCTION OF THE FRENCH DRAIN, BUT SHALL NOT INCLUDE PAYMENTS FOR ITEM PAID FOR ELSEWHERE IN THIS CONTRACT.

FRENCH DRAINS WITH A SIGNIFICANTLY DIFFERENT CROSS-SECTION SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICES FOR SEPARATE ITEMS AS FOLLOWS:

1. SLOTTED OR PERFORATED PIPE CULVERT, LF. UNIT PRICE SHALL INCLUDE THE COST FOR PIPE PLUGS AND FITTINGS IN PLACE.
2. BALLAST ROCK (FRENCH DRAIN AGGREGATE), CY. UNIT PRICE SHALL INCLUDE THE COST FOR COARSE AGGREGATE, IN PLACE, AND COST FOR TRENCH EXCAVATION, BACKFILL AND COMPACTION. THE UNIT PRICE SHALL ALSO INCLUDE THE COST FOR THE DISPOSAL OF SURPLUS EXCAVATED MATERIALS AND THE COST FOR THE RESTORATION OF ANY PAVEMENT REMOVED OR DAMAGED BY THE CONSTRUCTION OF THE FRENCH DRAIN SYSTEM, BUT SHALL NOT INCLUDE PAYMENT FOR ITEMS PAID FOR ELSEWHERE.
3. PLASTIC FILTER FABRIC (SUBSURFACE), SY. UNIT PRICE SHALL BE FOR THE COST OF INSTALLATION OF THE FILTER FABRIC, IN PLACE. QUANTITY SHALL BE DETERMINED BY PLAN NEAT DIMENSIONS OF THE FILTER FABRIC.

FOR SUPPLEMENTAL DETAILS, SEE FDOT INDEX NO. 443-001 (LATEST STANDARD PLANS FY)

520-2-4 THIS PAY ITEM INCLUDES THE FURNISHING OF ALL MATERIALS AND LABOR TO COMPLETE THE WORK AS SHOWN IN THE PLANS, INCLUDING ALL EXCAVATION; ALL BACKFILLING MATERIAL AND COMPACTION. NOT AN FDOT PAY ITEM.

520-2-6 THIS PAY ITEM INCLUDES THE FURNISHING OF ALL MATERIALS AND LABOR TO COMPLETE THE WORK AS SHOWN IN THE PLANS, INCLUDING ALL EXCAVATION, PLACING AND REMOVAL OF FORMS, AND FINISHING AND TEXTURING OF THE RIBBON CURB. NOT AN FDOT PAY ITEM.

570-1-2 THE UNIT PRICE (SY) FOR PERFORMANCE TURF SHALL INCLUDE ALL WORK AND MATERIALS FOR THE APPLICATION OF SOD, FERTILIZER, MOWING AND WATERING REQUIRED TO MAINTAIN THE SODDED AREAS UNTIL FINAL ACCEPTANCE OF THE PROJECT BY THE TOWN OF WINDERMERE.

522-4 INCLUDES DETECTABLE WARNING SURFACES. NOT AN FDOT PAY ITEM.

REFER TO SHEET 62 FOR ORANGE COUNTY UTILITIES PAY ITEM NOTES (PAY ITEMS 1050- TO 1644-).

REV.	DATE	DESCRIPTION	APP'D BY	OTHERS

SIGN OFF	DATE	FIELD: PEC SURVEYING AND MAPPING, LLC
CLIENT		DRAWN BY: CADD
PM/CM BC		DESIGNED BY: MBG
PM/CM DM		CHECKED BY: MBG
PM		DATE: NOVEMBER 2023
CM		

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
 3222 Corrine Drive, Suite H
 Orlando, Florida 32803 407/493-9983
 CERTIFICATE OF AUTHORIZATION NO. 29032

TOWN OF WINDERMERE
 PUBLIC WORKS DEPARTMENT
 614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-052.01.000	SUMMARY OF QUANTITIES
FILE NAME: SEE LEFT MARGIN	
ARCHIVE DISC:	
SCALE: AS SHOWN	DRWG. PPP-1 SHEET 4 OF 86

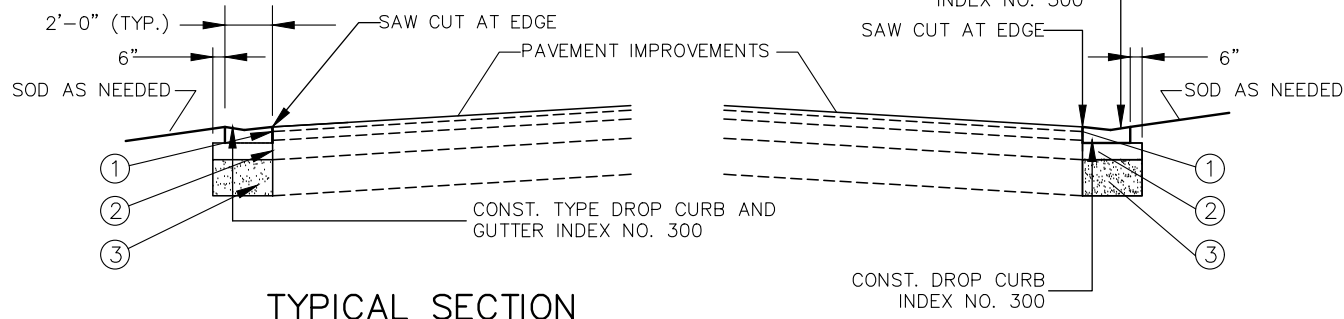
BASE THICKNESS AND OPTION CODES										
BASE GROUP	STRUCTURAL RANGE	BASE GROUP PAY ITEM NUMBER	BASE OPTIONS							
			LIMEROCK LBR 100	CEMENTED COQUINA LBR 100	SHELL ROCK LBR 100	BANK RUN SHELL LBR 100	GRADED AGGREGATE BASE LBR 100	TYPE B-12.5	TYPE B-12.5 & 4" GRANULAR SUBBASE, LBR 100*	RAP BASE
			STRUCTURAL NUMBER (PER. IN.)							
			(.18)	(.18)	(.18)	(.15)	(.30)	(.30&.15)	(NA)	
1	.65-.75	701	4"	4"	4"	4"	4.5"	4"		5"
2	.80-.90	702	5"	5"	5"	5"	5.5"	4"		
3	.95-1.05	703	5.5"	5.5"	5.5"	5.5"	6.5"	4"		
4	1.05-1.15	704	6"	6"	6"	6"	7.5"	4"		
5	1.25-1.35	705	7"	7"	7"	7"	8.5"	4.5"		
6	1.35-1.50	706	8"	8"	8"	8"	9"	5"		
7	1.50-1.65	707	8.5"	8.5"	8.5"	8.5"	10"	5.5"		
8	1.65-1.75	708	9.5"	9.5"	9.5"	9.5"	11"	5.5"		
9	1.75-1.85	709	10"	10"	10"	10"	12"	6"	4"	
10	1.90-2.00	710	11"	11"	11"	11"	13"	6.5"	4.5"	
11	2.05-2.15	711	12"	12"	12"	12"	14"	7"	5"	
12	2.20-2.30	712	12.5"	12.5"	12.5"	12.5"	12.5"	7.5"	5.5"	
13	2.35-2.45	713	13.5"	13.5"	13.5"	13.5"		8"	6"	
14	2.45-2.55	714	14"	14"	14"	14"		8.5"	6.5"	
15	2.60-2.70	715						9"	7"	

- * FOR GRANULAR SUBBASE, THE CONSTRUCTION OF BOTH THE SUBBASE AND TYPE B-12.5 WILL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR OPTIONAL BASE. GRANULAR SUBBASES INCLUDE LIMEROCK, CEMENTED COQUINA, SHELL ROCK, BANK RUN SHELL AND GRADED AGGREGATE BASE AT LBR 100. THE BASE THICKNESS SHOWN IS TYPE B-12.5. ALL SUBBASE THICKNESSES ARE 4".
- # TO BE USED FOR WIDENING ONLY, THREE FEET OR LESS.
- Δ BASED ON MINIMUM PRACTICAL THICKNESSES.
- RESTRICTED TO NON-LIMITED ACCESS SHOULDER BASE CONSTRUCTION.

REF: FDOT SPECIFICATION 285 - OPTIONAL BASE COURSE

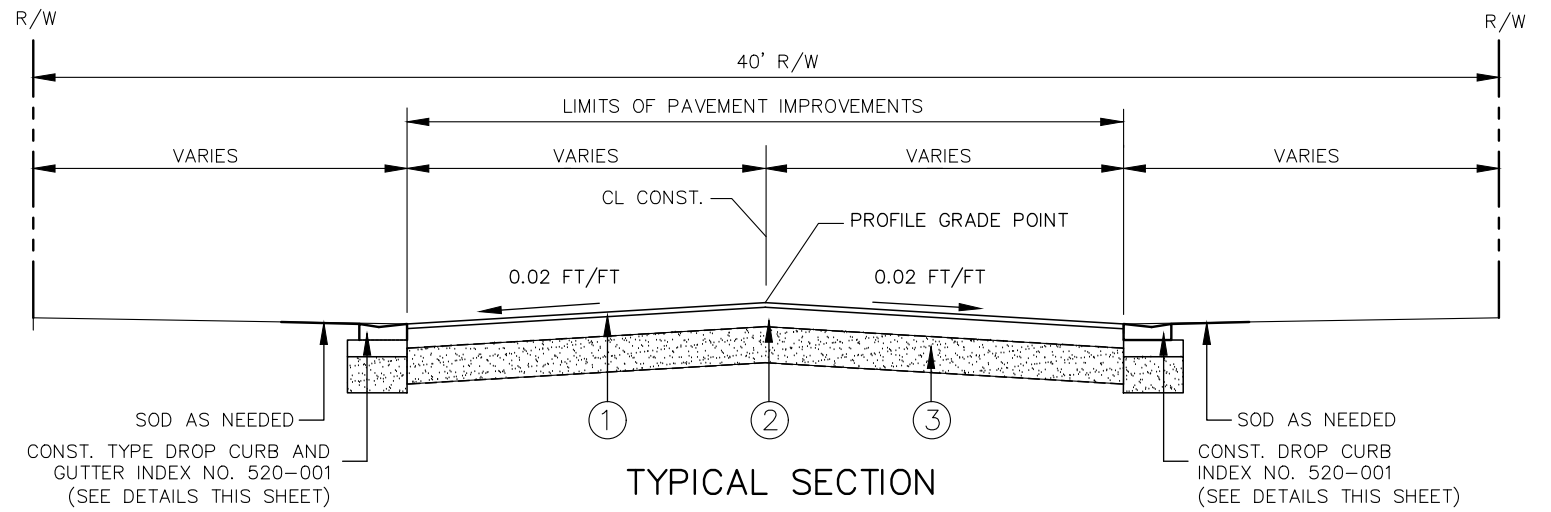
GENERAL NOTES

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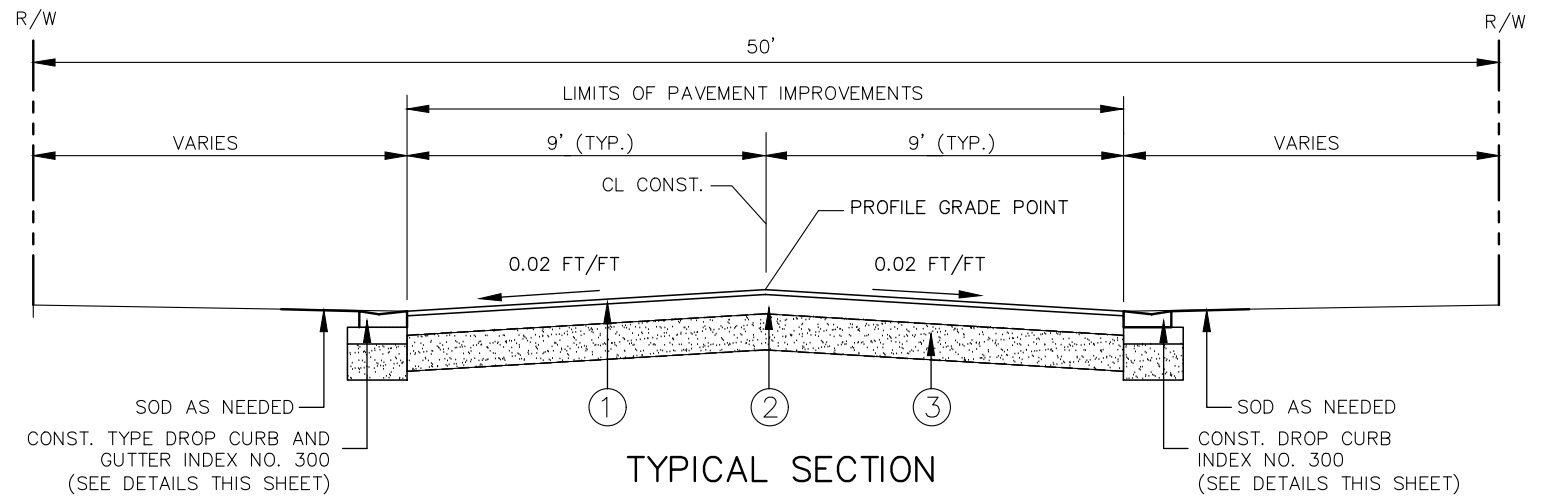
TYPICAL SECTION CURB AND GUTTER CONSTRUCTION
N.T.S.

- ASPHALT PAVEMENT
1-1/2" TYPE 9.5 SP (SUPERPAVE) ASPHALTIC CONCRETE (165 LB/SY)
TRAFFIC CONDITION C
- BASE:
OPTIONAL BASE GROUP 6 (INDEX NO. 514)
OPTIONAL BASE GROUP PERMITTED = TYPE B 12.5
- SUB BASE:
12" SUB BASE COMPACTED TO 98% DENSITY BASED ON AASHTO T-180
MODIFIED PROCTOR TEST WITH MINIMUM LBR 40.



TYPICAL SECTION
STA. 3+68.13 TO STA. 6+41.90
STA. 8+60.74 TO STA. 13+35.98
WEST SECOND AVENUE
N.T.S.

- ASPHALT PAVEMENT
1-1/2" TYPE SP (SUPERPAVE) 9.5 ASPHALTIC CONCRETE (165 LB/SY)
TRAFFIC CONDITION C
- BASE:
OPTIONAL BASE GROUP 6 (INDEX NO. 514)
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TYPICAL SECTION
STA. 13+35.98 TO STA. 24+86.90
WEST SECOND AVENUE
N.T.S.

- ASPHALT PAVEMENT
1-1/2" TYPE 9.5 SP (SUPERPAVE) ASPHALTIC CONCRETE (165 LB/SY)
TRAFFIC CONDITION C
- BASE:
OPTIONAL BASE GROUP 6 (INDEX NO. 514)
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MODIFIED PROCTOR TEST WITH MINIMUM LBR 40.

REV.	DATE	DESCRIPTION	APP'D BY	SIGN OFF	DATE	FIELD:
				CLIENT		PEC SURVEYING AND MAPPING, LLC
				PM/CM BC		DRAWN BY: CADD
				PM/CM DM		DESIGNED BY: MBG
				PM		CHECKED BY: MBG
				CM		DATE: NOVEMBER 2023
				OTHERS		

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 Corrine Drive, Suite H
Orlando, Florida 32803
CERTIFICATE OF AUTHORIZATION NO. 29032
407/493-9983



TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-052.01.000
FILE NAME: SEE LEFT MARGIN
ARCHIVE DISC:
SCALE: N.T.S.

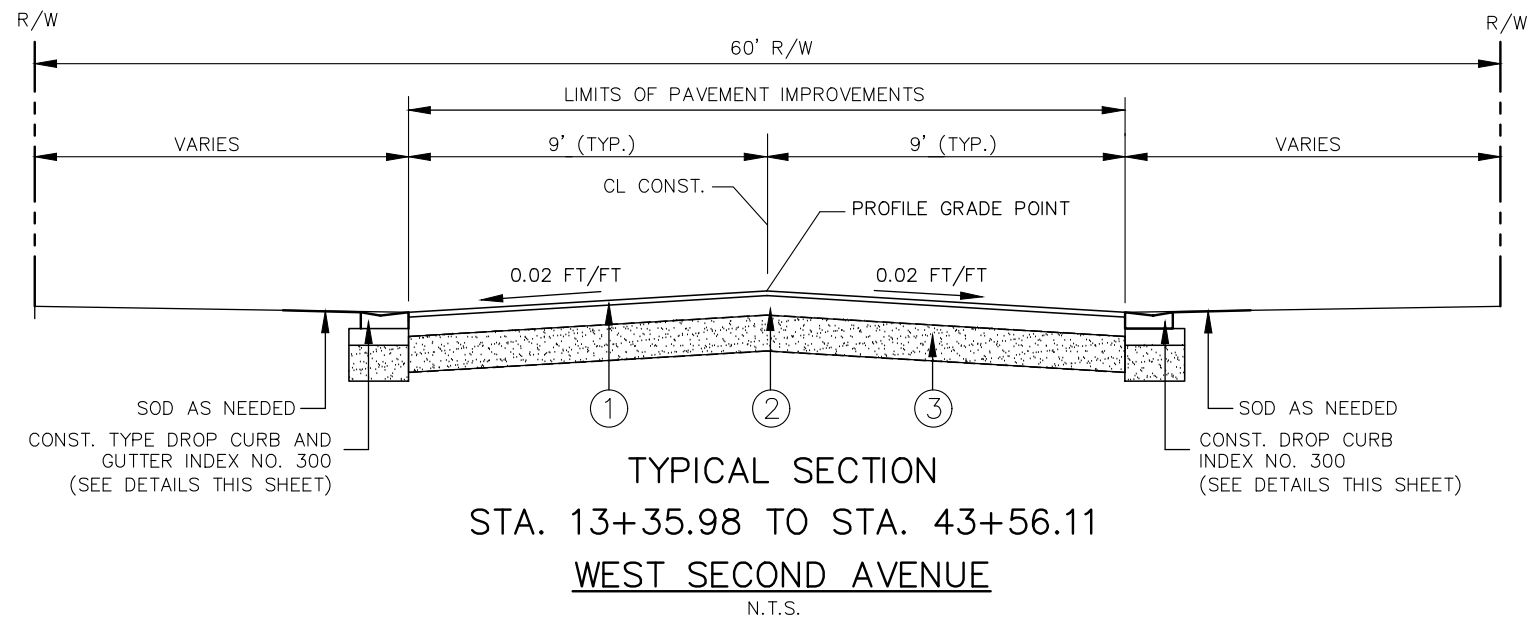
TYPICAL SECTIONS
WEST SECOND AVENUE

BASE THICKNESS AND OPTION CODES										
BASE GROUP	STRUCTURAL RANGE	BASE GROUP PAY ITEM NUMBER	BASE OPTIONS							
			LIMEROCK LBR 100	CEMENTED COQUINA LBR 100	SHELL ROCK LBR 100	BANK RUN SHELL LBR 100	GRADED AGGREGATE BASE LBR 100	TYPE B-12.5	TYPE B-12.5 & 4" GRANULAR SUBBASE LBR 100*	RAP BASE
			STRUCTURAL NUMBER (PER. IN.)							
			(.18)	(.18)	(.18)	(.18)	(.15)	(.30)	(.30&.15)	(NA)
1	.65-.75	701	4"	4"	4"	4"	4 1/2"	4"		5"
2	.80-.90	702	5"	5"	5"	5"	5 1/2"	4"		
3	.95-1.05	703	5 1/2"	5 1/2"	5 1/2"	5 1/2"	6 1/2"	4"		
4	1.05-1.15	704	6"	6"	6"	6"	7 1/2"	4"		
5	1.25-1.35	705	7"	7"	7"	7"	8 1/2"	4 1/2"		
6	1.35-1.50	706	8"	8"	8"	8"	9"	5"		
7	1.50-1.65	707	8 1/2"	8 1/2"	8 1/2"	8 1/2"	10"	5 1/2"		
8	1.65-1.75	708	9 1/2"	9 1/2"	9 1/2"	9 1/2"	11"	5 1/2"		
9	1.75-1.85	709	10"	10"	10"	10"	12"	6"	4"	
10	1.90-2.00	710	11"	11"	11"	11"	13"	6 1/2"	4 1/2"	
11	2.05-2.15	711	12"	12"	12"	12"	14"	7"	5"	
12	2.20-2.30	712	12 1/2"	12 1/2"	12 1/2"	12 1/2"	7 1/2"	5 1/2"		
13	2.35-2.45	713	13 1/2"	13 1/2"	13 1/2"	13 1/2"	8"	6"		
14	2.45-2.55	714	14"	14"	14"	14"	8 1/2"	6 1/2"		
15	2.60-2.70	715					9"	7"		

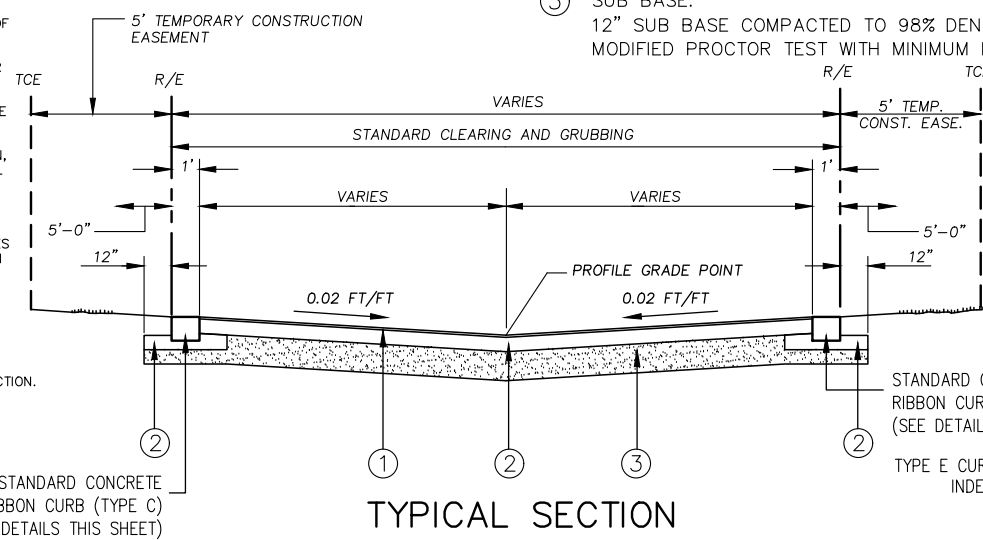
REF: FDOT INDEX NO. 514

GENERAL NOTES

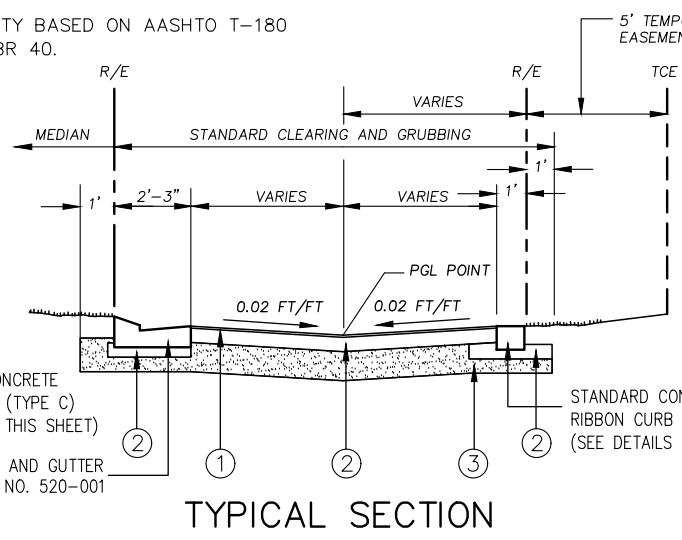
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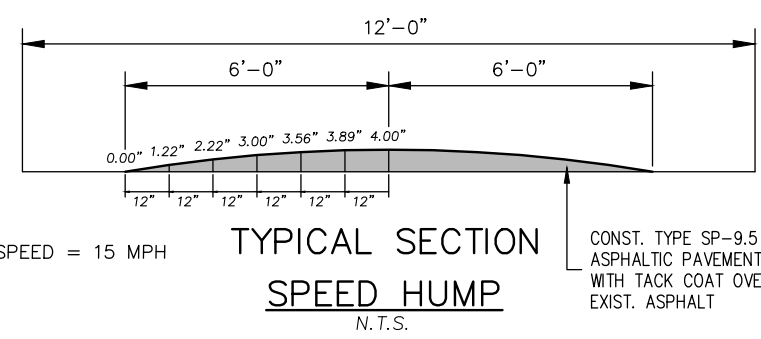
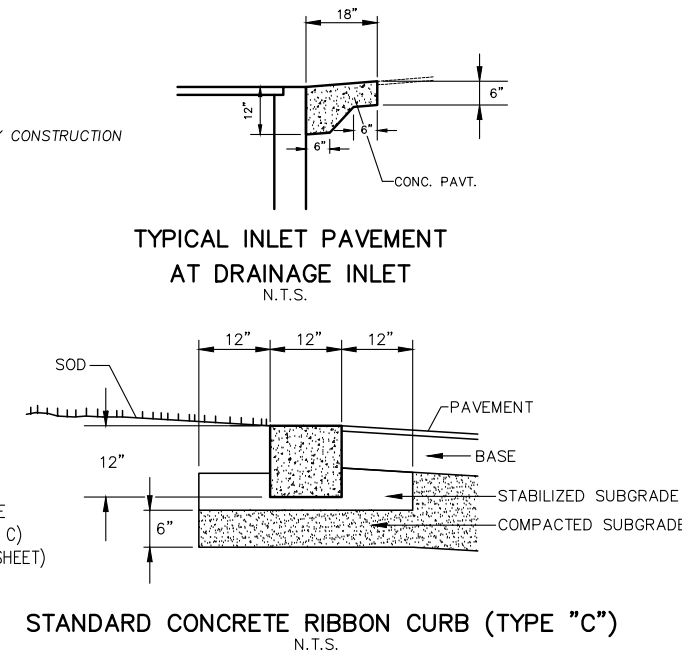
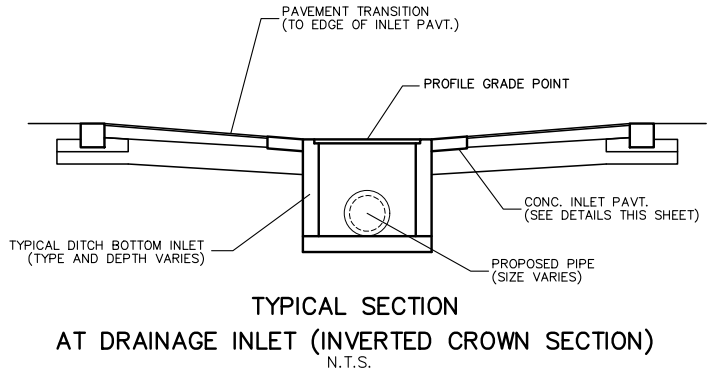
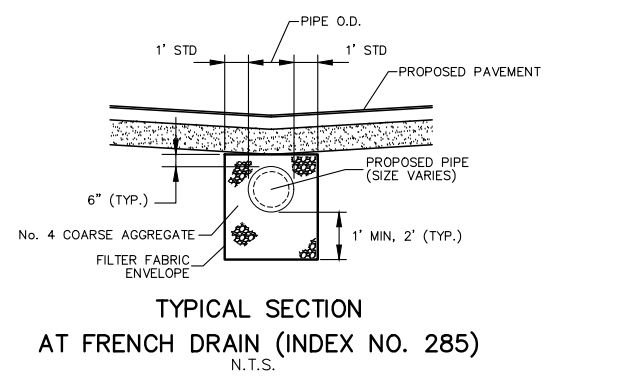
- ASPHALT PAVEMENT
1-1/2" TYPE 9.5 SP (SUPERPAVE) ASPHALTIC CONCRETE (165 LB/SY)
TRAFFIC CONDITION C
- BASE:
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- ASPHALT PAVEMENT:
1-1/2" TYPE 9.5 SP (SUPERPAVE) ASPHALTIC CONCRETE (165 LB/SY)(TRAFFIC LEVEL B)
- BASE:
OPTIONAL BASE GROUP 06 (INDEX NO. 514)
OPTIONAL BASE GROUP PERMITTED = TYPE B 12.5
- SUB BASE:
12" SUB BASE COMPACTED TO 98% DENSITY BASED ON AASHTO T-180
MODIFIED PROCTOR TEST WITH MINIMUM LBR 40.



- ASPHALT PAVEMENT:
1-1/2" TYPE 9.5 SP (SUPERPAVE) ASPHALTIC CONCRETE (165 LB/SY)(TRAFFIC LEVEL B)
- BASE:
OPTIONAL BASE GROUP 06 (INDEX NO. 514)
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- SUB BASE:
12" SUB BASE COMPACTED TO 98% DENSITY BASED ON AASHTO T-180
MODIFIED PROCTOR TEST WITH MINIMUM LBR 40.



CROSSING SPEED = 15 MPH

- CONST. TYPE SP-9.5 ASPHALTIC PAVEMENT WITH TACK COAT OVER EXIST. ASPHALT

WAUSEON BAY
W.E.
99.5



BASIN ID	DRAINAGE AREA, AC.
BS-1	0.14 AC.
BS-2	0.16 AC.
BS-3	0.07 AC.
BS-4	0.01 AC.
BS-5	0.20 AC.
BS-6	0.51 AC.
BS-7	0.10 AC.
BS-8	0.20 AC.
BS-9	0.17 AC.
BS-10	0.17 AC.
BS-11	0.16 AC.
BS-12	0.47 AC.
BS-13	OMITTED
BS-14	0.22 AC.
BS-15	0.18 AC.
BS-16	0.61 AC.
BS-17	0.34 AC.
BS-18	0.01 AC.
BS-19	0.01 AC.
BS-20	0.28 AC.
BS-21	0.04 AC.
BS-22	1.27 AC.
BS-23	0.40 AC.
BEXS-100	0.42 AC.
BEXS-101	0.11 AC.
TOTAL	6.25 AC.

BASIN ID	DRAINAGE AREA, AC.
EBS-100	0.40 AC.
EBS-101	0.06 AC.
EBS-102	0.76 AC.
EBS-103	0.05 AC.
EBS-104	0.03 AC.
EBS-105	0.35 AC.
EBS-200	0.03 AC.
EBS-201	0.09 AC.
EBS-202	0.02 AC.
TOTAL	1.79 AC.



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PM/CM DM		DESIGNED BY: MBG
PM		CHECKED BY: MBG
CM		DATE: NOVEMBER 2023
OTHERS		

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
 3222 Corrine Drive, Suite H
 Orlando, Florida 32803 407/493-9983
 CERTIFICATE OF AUTHORIZATION NO. 29032

TOWN OF WINDERMERE
 PUBLIC WORKS DEPARTMENT
 614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-052.01.000
FILE NAME: SEE LEFT MARGIN
ARCHIVE DISC:
SCALE: 1"=70'

DRAINAGE BASIN MAP

DRWG. SHEET 7 OF 86



BASIN ID	DRAINAGE AREA, AC.
BS-100	0.18 AC.
BS-101	0.49 AC.
BS-102	0.86 AC.
BS-103	0.05 AC.
BS-104	0.15 AC.
BS-105	0.45 AC.
BS-106	0.42 AC.
BS-111	2.05 AC.
BS-114	0.14 AC.
BS-116	0.69 AC.
BS-117	1.49 AC.
BS-300	0.53 AC.
BS-302	0.94 AC.
BS-304	0.64 AC.
BS-400	0.39 AC.
BS-401	0.25 AC.
BS-402	0.97 AC.
BS-500	0.01 AC.
BS-501	0.01 AC.
BS-502	0.19 AC.
BS-503	0.23 AC.
BS-504	0.17 AC.
BS-505	0.38 AC.
BS-507	0.14 AC.
BS-508	0.51 AC.
BS-509	0.06 AC.
BS-510	0.41 AC.
BS-600	0.06 AC.
BS-601	0.25 AC.
BS-602	0.04 AC.
TOTAL	13.04 AC.

BASIN ID	DRAINAGE AREA, AC.
BS-24	0.15 AC.
BS-25	0.25 AC.
BS-26	1.05 AC.
BS-27	0.43 AC.
BS-28	0.00 AC.
BS-29	0.10 AC.
BS-30	0.45 AC.
BS-31	0.14 AC.
BS-32	1.17 AC.
BS-33	3.50 AC.
BS-35	0.88 AC.
BS-36	0.04 AC.
BS-37	0.06 AC.
BS-38	0.35 AC.
BS-39	0.62 AC.
BS-40	0.38 AC.
BS-41	0.92 AC.
TOTAL	10.50 AC.

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DRAINAGE BASIN MAP

DRWG. SHEET 8 OF 86



- LEGEND**
- SIGN
 - MAIL BOX
 - 12" ○ CAMPHOR TREE WITH SIZE
 - 12" ○ OAK TREE WITH SIZE
 - 12" ○ PINE TREE WITH SIZE
 - ELECTRIC BOX
 - POWER POLE
 - ▲ LIGHT POLE
 - 12" ○ PALM TREE WITH SIZE
 - 12" ○ BAY TREE WITH SIZE
 - LIGHT POLE
 - WATER METER
 - 12" ○ MAGNOLIA TREE WITH SIZE
 - TELEPHONE BOX
 - 12" ○ CYPRESS TREE WITH SIZE
 - 12" ○ MAPLE TREE WITH SIZE
 - 12" ○ UNKNOWN TREE TYPE WITH SIZE
 - GUY ANCHOR
 - GAS METER
 - FIRE HYDRANT
 - WATERVALVE COVER
 - 12" ○ TREE
 - IRRIGATION CONTROL BOX
 - 12" ○ MYRTLE TREE WITH SIZE
 - UNDERGROUND TELEPHONE LINE
 - UNDERGROUND WATER LINE
 - UNDERGROUND ELECTRIC LINES
 - OVERHEAD UTILITY LINES
 - UNDERGROUND GAS LINE
 - UNDERGROUND DRAINAGE PIPE
 - HORIZONTAL AND VERTICAL CONTROL POINT
 - HORIZONTAL AND VERTICAL CONTROL POINT
- N 1514307.3724
E 483077.8823



REV.	DATE	DESCRIPTION	APP'D BY	OTHERS

MGEC MICHAEL GALURA
ENGINEERING
CONSULTANTS, LLC

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TOPOGRAPHIC SURVEY
W. SECOND AVENUE

DRWG. SHEET 9 OF 86



- LEGEND**
- SIGN
 - MAIL BOX
 - 12" ○ CAMPHOR TREE WITH SIZE
 - 12" ○ OAK TREE WITH SIZE
 - 12" ○ PINE TREE WITH SIZE
 - ELECTRIC BOX
 - POWER POLE
 - LIGHT POLE
 - 12" ○ PALM TREE WITH SIZE
 - 12" ○ BAY TREE WITH SIZE
 - LIGHT POLE
 - WATER METER
 - 12" ○ MAGNOLIA TREE WITH SIZE
 - TELEPHONE BOX
 - 12" ○ CYPRESS TREE WITH SIZE
 - 12" ○ MAPLE TREE WITH SIZE
 - 12" ○ UNKNOWN TREE TYPE WITH SIZE
 - GUY ANCHOR
 - GAS METER
 - FIRE HYDRANT
 - WATERVALVE COVER
 - 12" ○ TREE
 - IRRIGATION CONTROL BOX
 - 12" ○ MYRTLE TREE WITH SIZE
 - UNDERGROUND TELEPHONE LINE
 - UNDERGROUND WATER LINE
 - UNDERGROUND ELECTRIC LINES
 - OVERHEAD UTILITY LINES
 - UNDERGROUND GAS LINE
 - UNDERGROUND DRAINAGE PIPE
 - HORIZONTAL AND VERTICAL CONTROL POINT
 - HORIZONTAL AND VERTICAL CONTROL POINT
- N 1514307.3724
E 483077.8623



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ARCHIVE DISC:
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TOPOGRAPHIC SURVEY
W. SECOND AVENUE

DRWG. SHEET 10 OF 86

- LEGEND
- SIGN
 - MAIL BOX
 - CAMPHOR TREE WITH SIZE
 - OAK TREE WITH SIZE
 - PINE TREE WITH SIZE
 - ELECTRIC BOX
 - POWER POLE
 - LIGHT POLE
 - PALM TREE WITH SIZE
 - BAY TREE WITH SIZE
 - LIGHT POLE
 - WATER METER
 - MAGNOLIA TREE WITH SIZE
 - TELEPHONE BOX
 - CYPRESS TREE WITH SIZE
 - MAPLE TREE WITH SIZE
 - UNKNOWN TREE TYPE WITH SIZE
 - GUY ANCHOR
 - GAS METER
 - FIRE HYDRANT
 - WATERVALVE COVER
 - TREE
 - IRRIGATION CONTROL BOX
 - MYRTLE TREE WITH SIZE
 - UNDERGROUND TELEPHONE LINE
 - UNDERGROUND WATER LINE
 - UNDERGROUND ELECTRIC LINES
 - OVERHEAD UTILITY LINES
 - UNDERGROUND GAS LINE
 - UNDERGROUND DRAINAGE PIPE
 - HORIZONTAL AND VERTICAL CONTROL POINT
N 1514307.3224
E 483077.8823
 - HORIZONTAL AND VERTICAL CONTROL POINT



REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF	DATE
CLIENT	
PM/CM BC	
PM/CM DM	
PM	
CM	
OTHERS	

FIELD: PEC SURVEYING AND MAPPING, LLC
 DRAWN BY: CADD
 DESIGNED BY: MBG
 CHECKED BY: MBG
 DATE: NOVEMBER 2023

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JOB No. TOW-052.01.000
FILE NAME: SEE LEFT MARGIN
ARCHIVE DISC:
SCALE: HORIZ. = 1"=20'

TOPOGRAPHIC SURVEY
W. SECOND AVENUE

DRWG. SHEET 11 OF 86



REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF	DATE
CLIENT	
PM/CM BC	
PM/CM DM	
PM	
CM	
OTHERS	

MGEC MICHAEL GALURA
 ENGINEERING
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FILE NAME: SEE LEFT MARGIN
ARCHIVE DISC:
SCALE: HORIZ. = 1"=20'

TOPOGRAPHIC SURVEY
W. SECOND AVENUE
 DRWG. SHEET 12 OF 86



REV.	DATE	DESCRIPTION

SIGN OFF	DATE	FIELD
		PEC SURVEYING AND MAPPING, LLC
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JOB No.	TOW-052.01.000
FILE NAME:	SEE LEFT MARGIN
ARCHIVE DISC:	
SCALE:	HORIZ. = 1"=20'

TOPOGRAPHIC SURVEY
W. SECOND AVENUE

DRWG. SHEET 13 OF 86



REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF	DATE	FIELD:
		PEC SURVEYING AND MAPPING, LLC
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SCALE: HORIZ. = 1"=20'

TOPOGRAPHIC SURVEY	SHEET 14 OF 86
W. SECOND AVENUE	
DRWG.	



- LEGEND**
- SIGN
 - MAIL BOX
 - CAMPHOR TREE WITH SIZE
 - OAK TREE WITH SIZE
 - PINE TREE WITH SIZE
 - ELECTRIC BOX
 - POWER POLE
 - ▲ LIGHT POLE
 - PALM TREE WITH SIZE
 - BAY TREE WITH SIZE
 - LIGHT POLE
 - WATER METER
 - MAGNOLIA TREE WITH SIZE
 - TELEPHONE BOX
 - CYPRESS TREE WITH SIZE
 - MAPLE TREE WITH SIZE
 - UNKNOWN TREE TYPE WITH SIZE
 - GUY ANCHOR
 - GAS METER
 - FIRE HYDRANT
 - WATERVALVE COVER
 - TREE
 - IRRIGATION CONTROL BOX
 - MYRTLE TREE WITH SIZE
 - UNDERGROUND TELEPHONE LINE
 - UNDERGROUND WATER LINE
 - UNDERGROUND ELECTRIC LINES
 - OVERHEAD UTILITY LINES
 - UNDERGROUND GAS LINE
 - UNDERGROUND DRAINAGE PIPE
 - HORIZONTAL AND VERTICAL CONTROL POINT
 - N 1514307.3724
E 483077.8823 HORIZONTAL AND VERTICAL CONTROL POINT

REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF	DATE
CLIENT	
PM/CM BC	
PM/CM DM	
PM	
CM	
OTHERS	

MGEC MICHAEL GALURA
ENGINEERING
CONSULTANTS, LLC

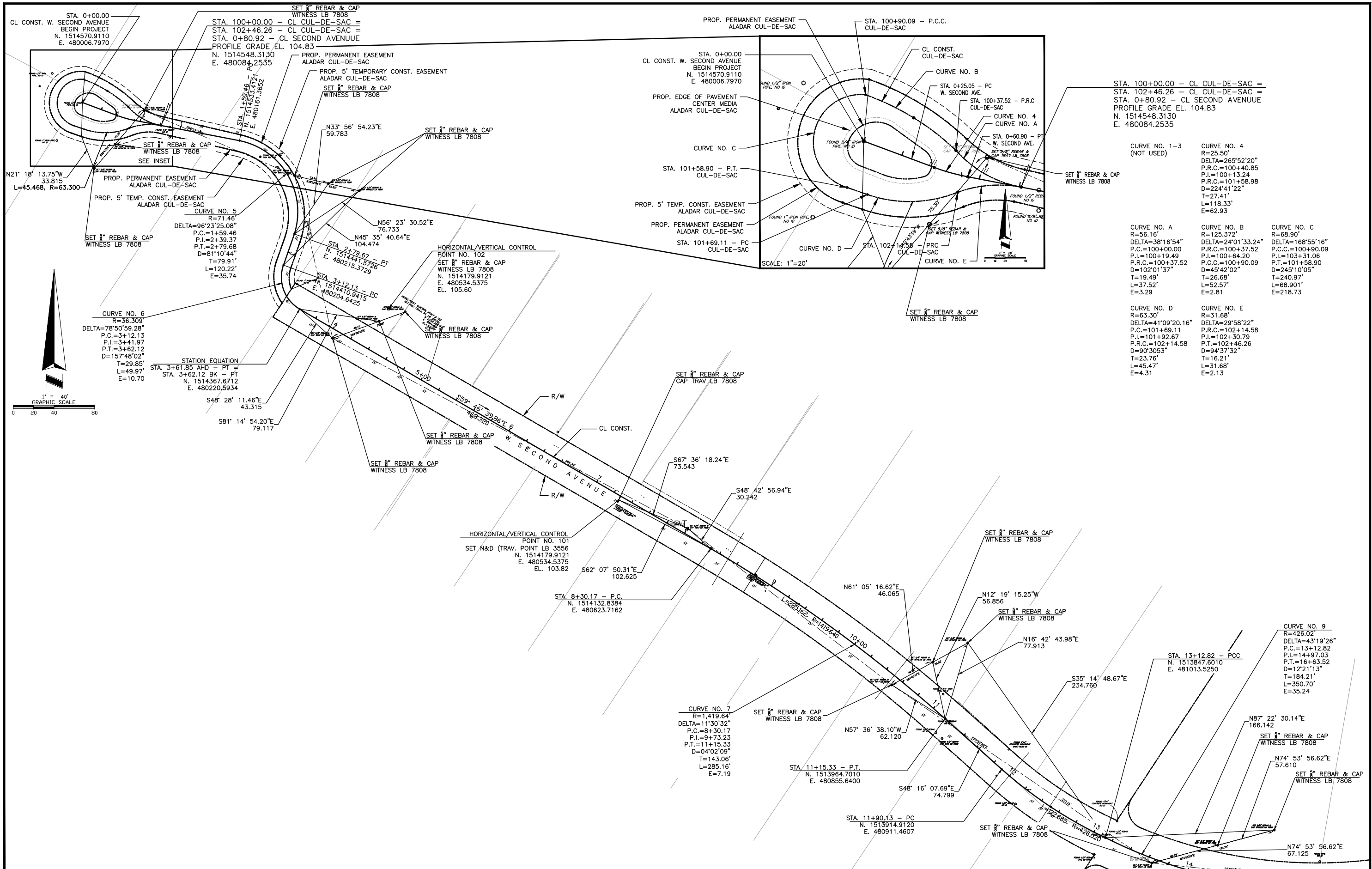
3222 Corrine Drive, Suite H
Orlando, Florida 32803 407/493-9983
CERTIFICATE OF AUTHORIZATION NO. 29032

TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-052.01.000
FILE NAME: SEE LEFT MARGIN
ARCHIVE DISC:
SCALE: HORIZ. = 1"=20'

TOPOGRAPHIC SURVEY
W. SECOND AVENUE

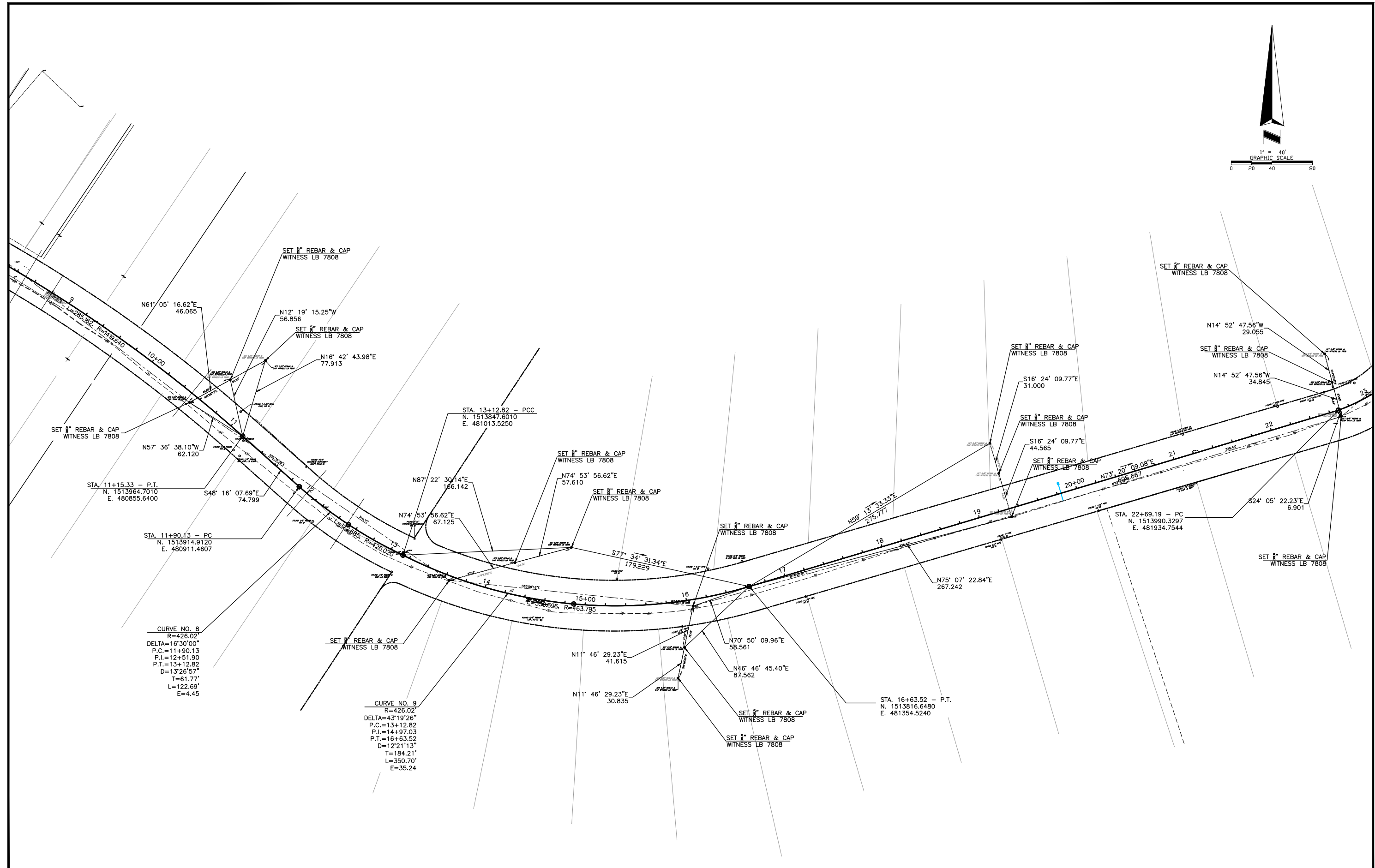
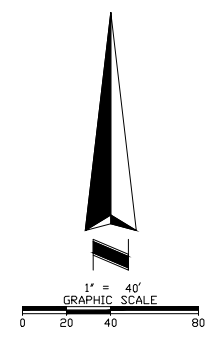
DRWG. SHEET 15 OF 86



STA. 100+00.00 - CL CUL-DE-SAC =
STA. 102+46.26 - CL CUL-DE-SAC =
STA. 0+80.92 - CL SECOND AVENUE
PROFILE GRADE EL. 104.83
N. 1514548.3130
E. 480084.2535

CURVE NO. 1-3 (NOT USED)	CURVE NO. 4	CURVE NO. 5	CURVE NO. 6	CURVE NO. 7	CURVE NO. 8	CURVE NO. 9
R=25.50'	R=25.50'	R=71.46'	R=36.309'	R=1,419.64'	R=63.30'	R=426.02'
DELTA=265°52'20"	DELTA=265°52'20"	DELTA=96°23'25.08"	DELTA=78°50'59.28"	DELTA=11°30'32"	DELTA=41°09'20.16"	DELTA=43°19'26"
P.R.C.=100+40.85	P.R.C.=100+40.85	P.C.=1+59.46	P.C.=3+12.13	P.C.=8+30.17	P.C.=100+37.52	P.C.=13+12.82
P.I.=100+13.24	P.I.=100+13.24	P.I.=2+39.37	P.I.=3+41.97	P.I.=9+73.23	P.I.=101+92.67	P.I.=14+97.03
D=224'41.22"	D=224'41.22"	D=81°10'44"	D=157°48'02"	D=04°02'09"	D=90°3053"	D=12°21'13"
T=27.41'	T=27.41'	T=79.91'	T=29.85'	T=143.06'	T=23.76'	T=184.21'
L=118.33'	L=118.33'	L=120.22'	L=49.97'	L=285.16'	L=45.47'	L=350.70'
E=62.93	E=62.93	E=35.74	E=10.70	E=7.19	E=4.31	E=35.24

REV.	DATE	DESCRIPTION	APP'D BY	OTHERS	SIGN OFF	DATE	FIELD: PEC SURVEYING AND MAPPING, LLC DRAWN BY: CADD DESIGNED BY: MBG CHECKED BY: MBG DATE: NOVEMBER 2023	MGE C MICHAEL GALURA ENGINEERING CONSULTANTS, LLC 3222 Corrine Drive, Suite H Orlando, Florida 32803 407/493-9983 CERTIFICATE OF AUTHORIZATION NO. 29032	TOWN OF WINDERMERE PUBLIC WORKS DEPARTMENT 614 MAIN STREET, WINDERMERE, FLORIDA 34786	JOB No. TOW-052.01.000 FILE NAME: SEE LEFT MARGIN ARCHIVE DISC: SCALE: HORIZ. = 1"=40' SURVEY CONTROL W. SECOND AVENUE DRWG. SHEET 16 OF 86
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CURVE NO. 8
 R=426.02'
 DELTA=16°30'00"
 P.C.=11+90.13
 P.I.=12+51.90
 P.T.=13+12.82
 D=13°26'57"
 T=61.77'
 L=122.69'
 E=4.45'

CURVE NO. 9
 R=426.02'
 DELTA=43°19'26"
 P.C.=13+12.82
 P.I.=14+97.03
 P.T.=16+63.52
 D=12°21'13"
 T=184.21'
 L=350.70'
 E=35.24'

REV.	DATE	DESCRIPTION	APP'D BY

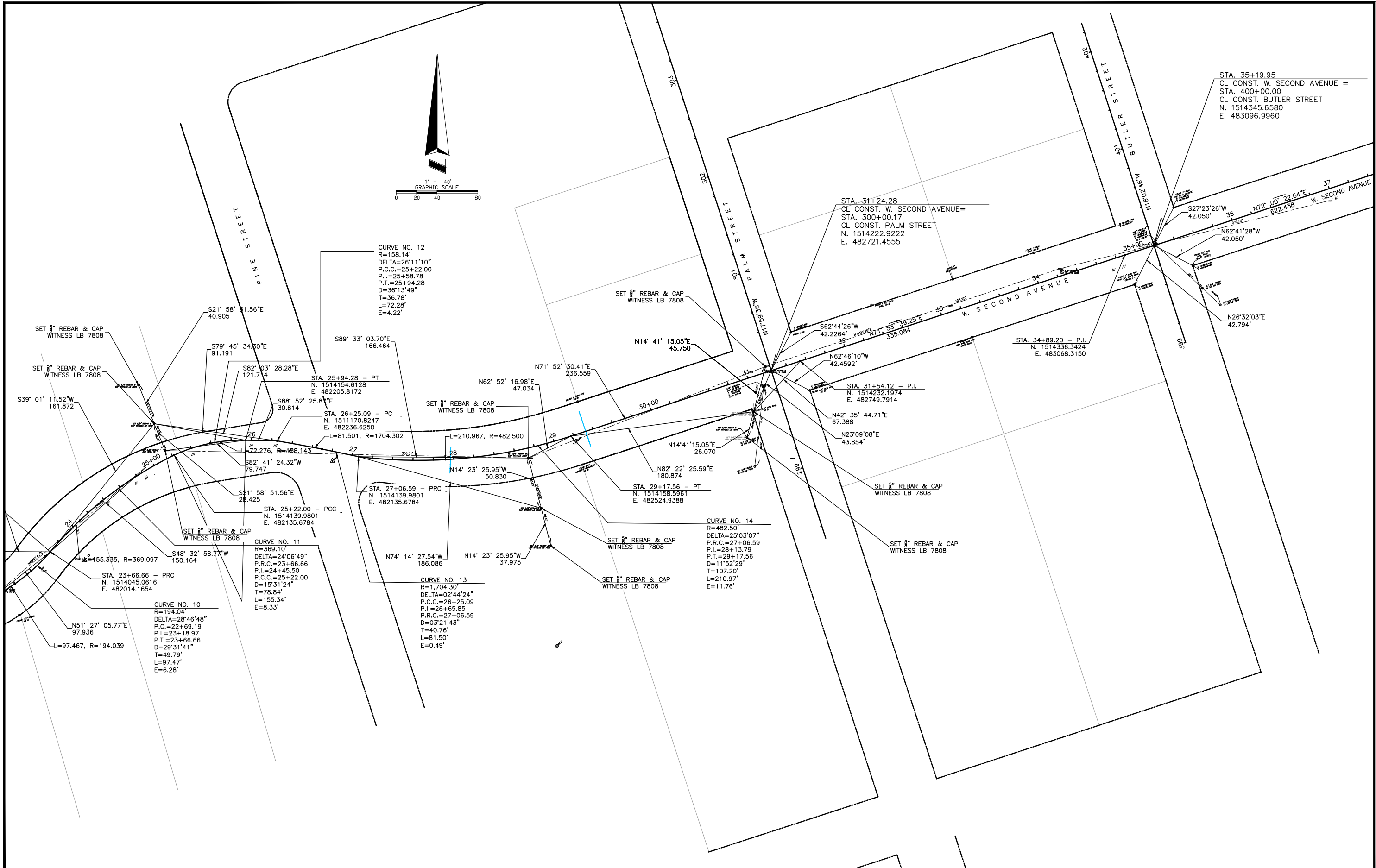
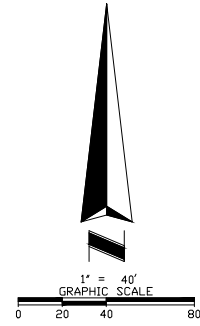
SIGN OFF	DATE
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PM/CM DM	
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MGEC MICHAEL GALURA
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TOWN OF WINDERMERE
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SURVEY CONTROL
W. SECOND AVENUE
 DRWG. SHEET 17 OF 86



REV.	DATE	DESCRIPTION	APP'D BY

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FIELD: PEC SURVEYING AND MAPPING, LLC
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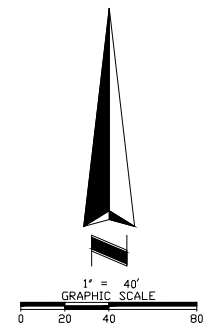
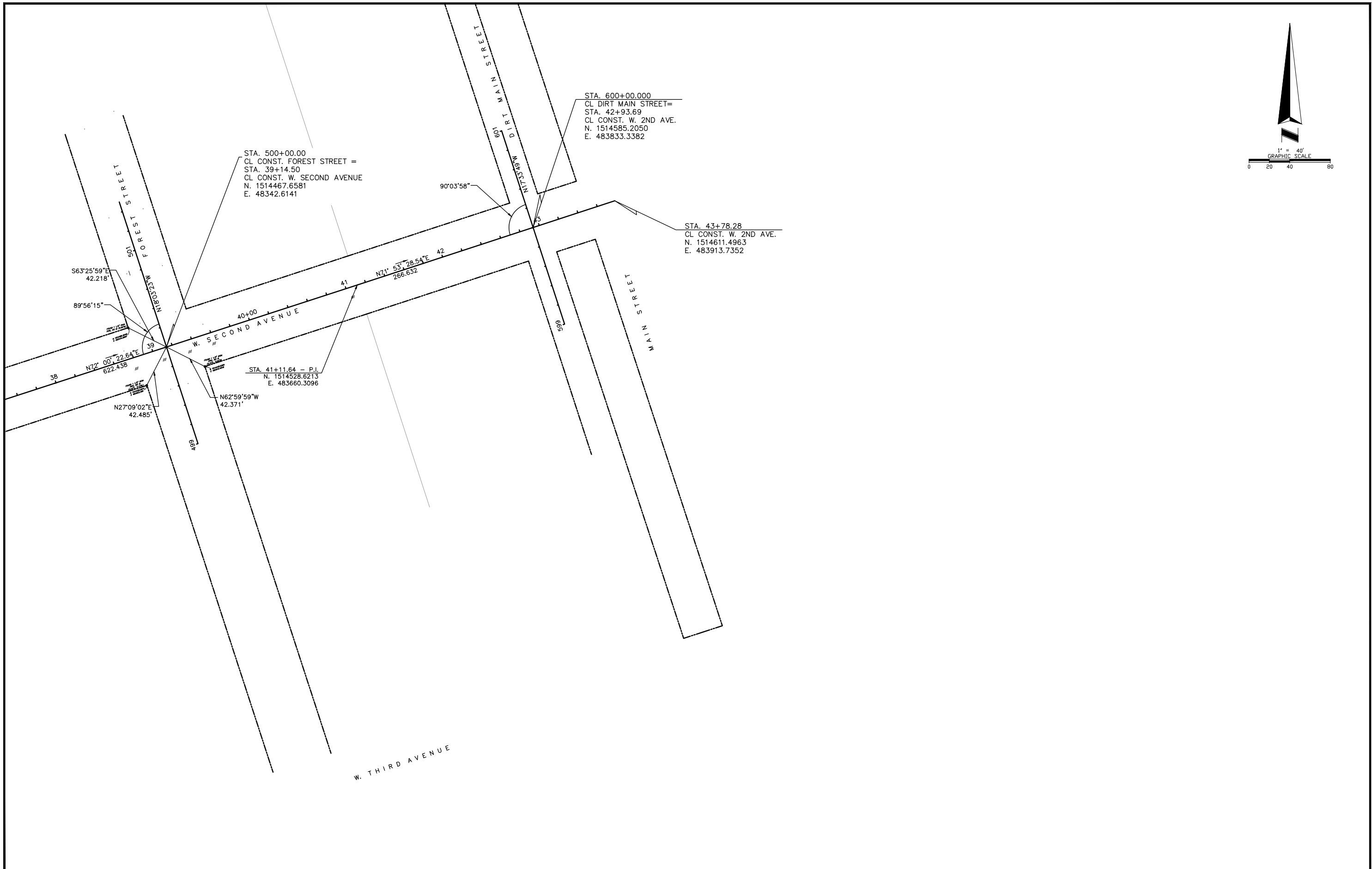
MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
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SURVEY CONTROL
W. SECOND AVENUE

DRWG. SHEET 18 OF 86



REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF	DATE
CLIENT	
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PM/CM DM	
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FIELD: PEC SURVEYING AND MAPPING, LLC
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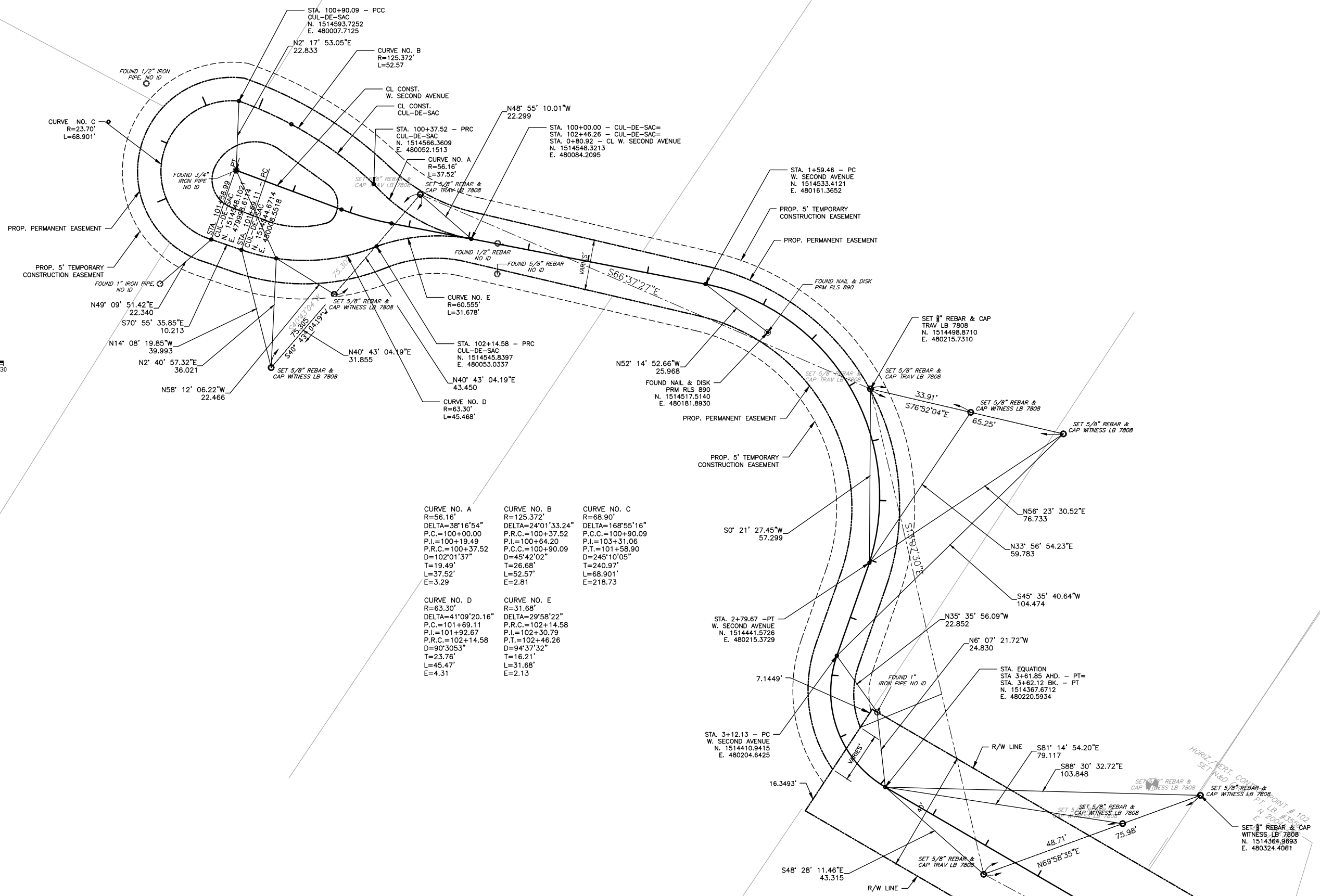
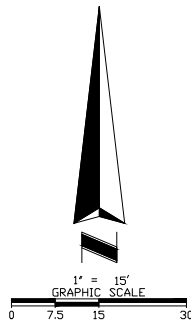
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 SCALE: HORIZ. = 1"=40'

SURVEY CONTROL
W. SECOND AVENUE

DRWG. SHEET 19 OF 86



CURVE NO. A R=56.16' DELTA=38°16'54" P.C.=100+00.00 P.I.=100+19.49 P.R.C.=100+37.52 D=102°01'37" T=19.49' L=37.52' E=3.29'	CURVE NO. B R=125.372' DELTA=24°01'33.24" P.C.=100+37.52 P.I.=100+64.20 P.R.C.=100+90.09 D=45°42'02" T=26.68' L=52.57' E=2.81'	CURVE NO. C R=68.90' DELTA=168°55'16" P.C.=100+90.09 P.I.=103+31.06 P.R.C.=101+58.90 D=245°10'05" T=240.97' L=68.901' E=218.73'
CURVE NO. D R=63.30' DELTA=41°09'20.16" P.C.=101+69.11 P.I.=101+92.67 P.R.C.=102+14.58 D=90°30'53" T=23.76' L=45.47' E=4.31'	CURVE NO. E R=31.68' DELTA=29°58'22" P.C.=102+14.58 P.I.=102+30.79 P.R.C.=102+46.26 D=94°37'32" T=16.21' L=31.68' E=2.13'	

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CM		DATE: NOVEMBER 2023

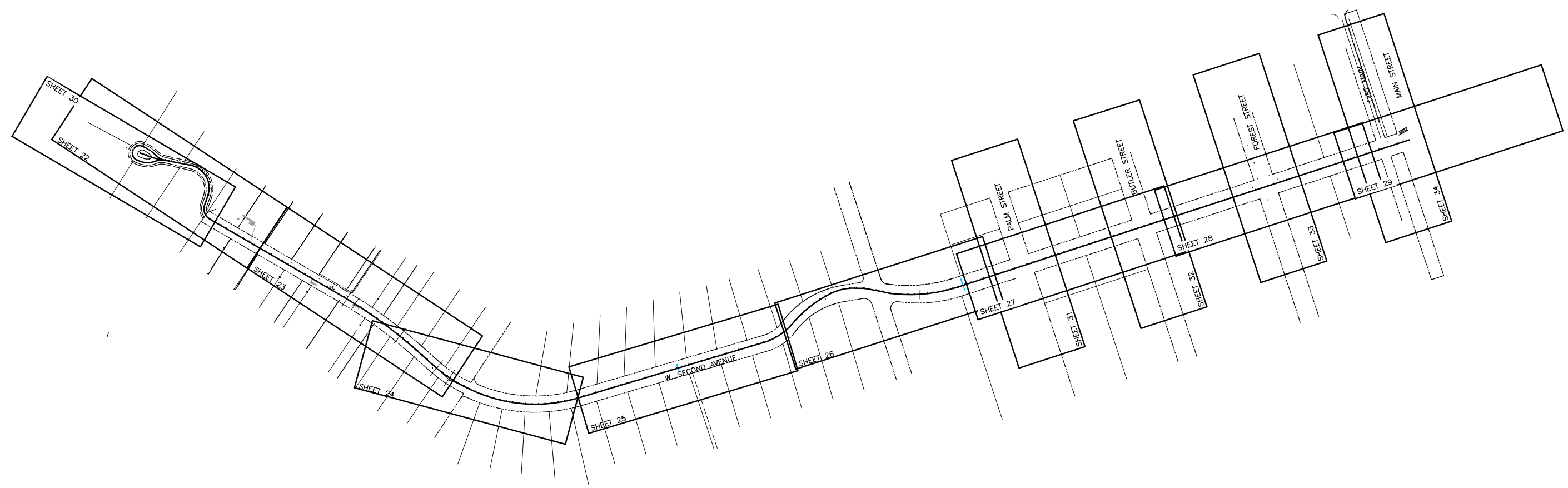
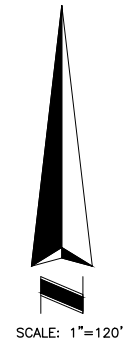
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JOB No. TOW-052.01.000
FILE NAME: SEE LEFT MARGIN
ARCHIVE DISC:
SCALE: AS NOTED

SURVEY CONTROL
CUL-DE-SAC

DRWG. SHEET 20 OF 86



REV.	DATE	DESCRIPTION	APP'D BY

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FIELD: PEC SURVEYING AND MAPPING, LLC
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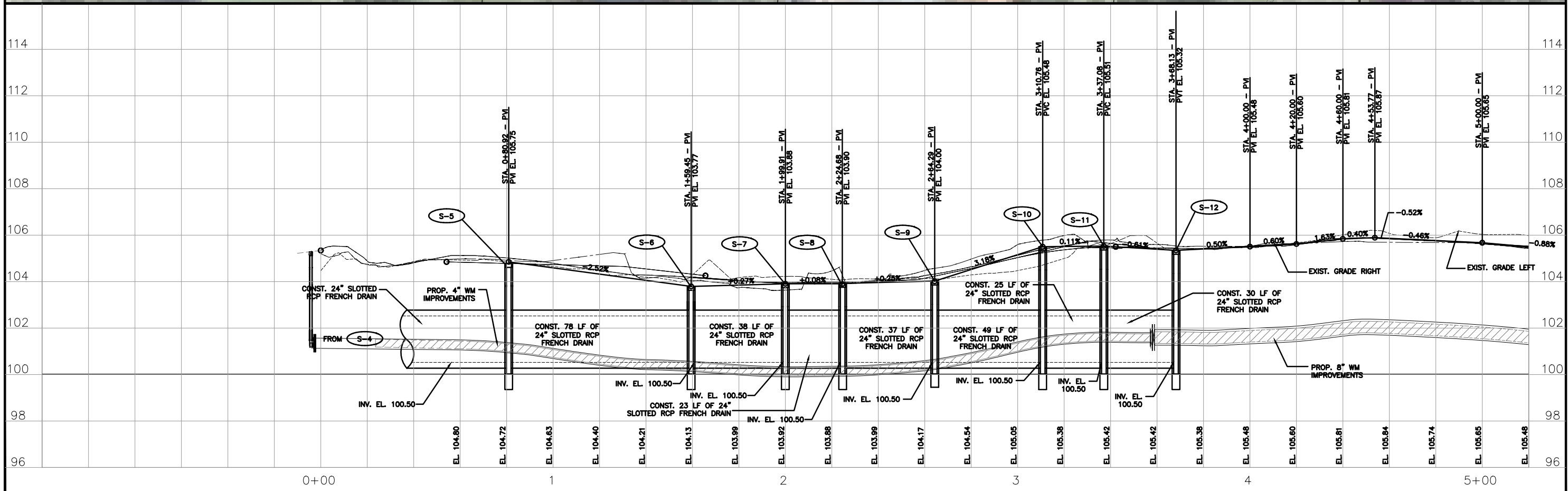
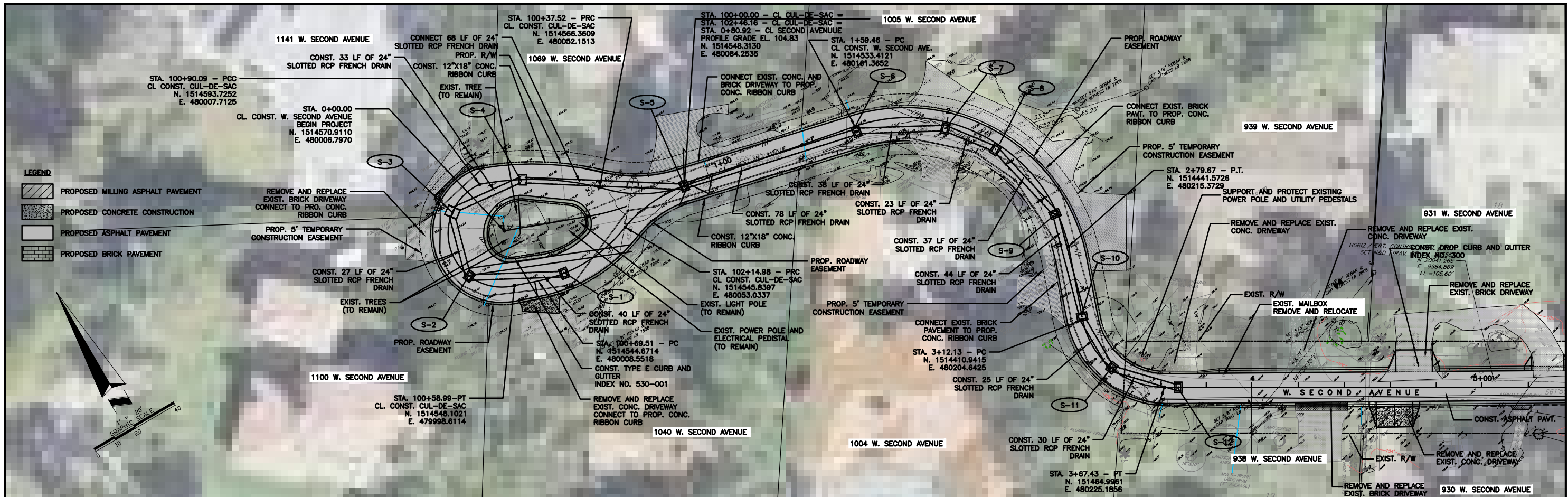
MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
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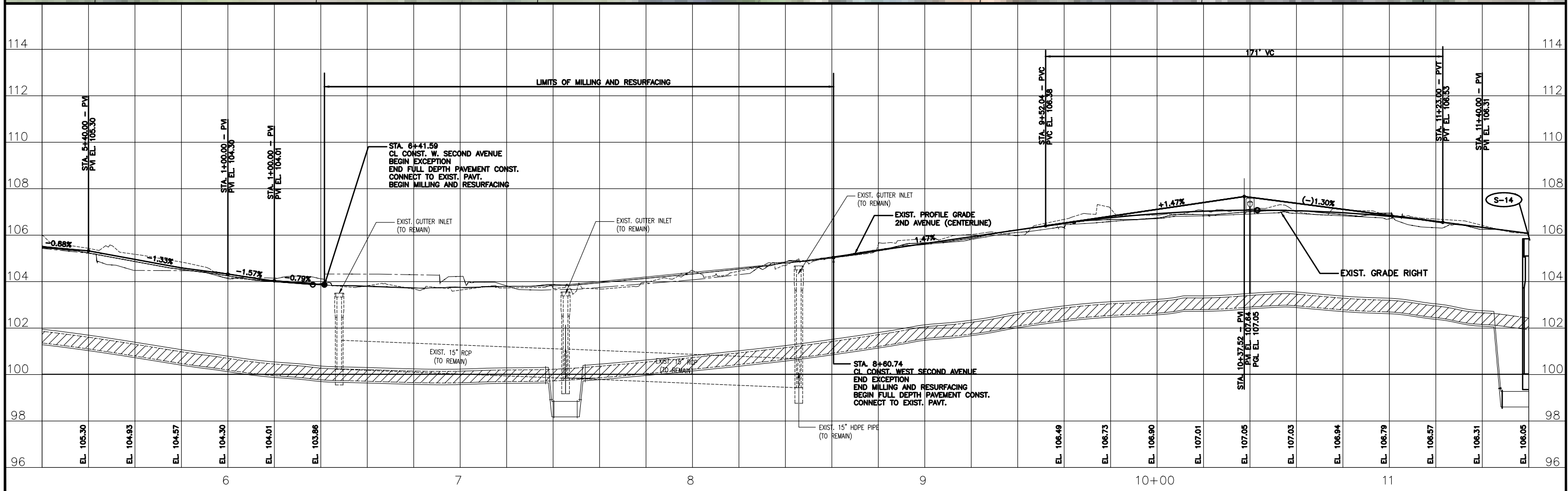
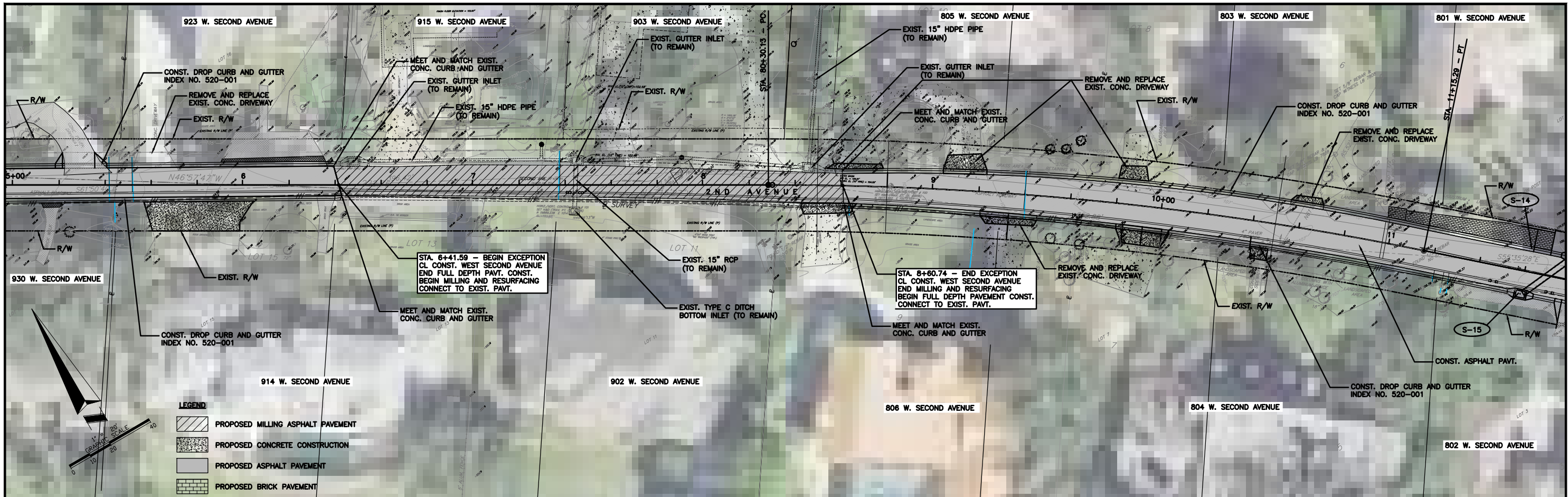
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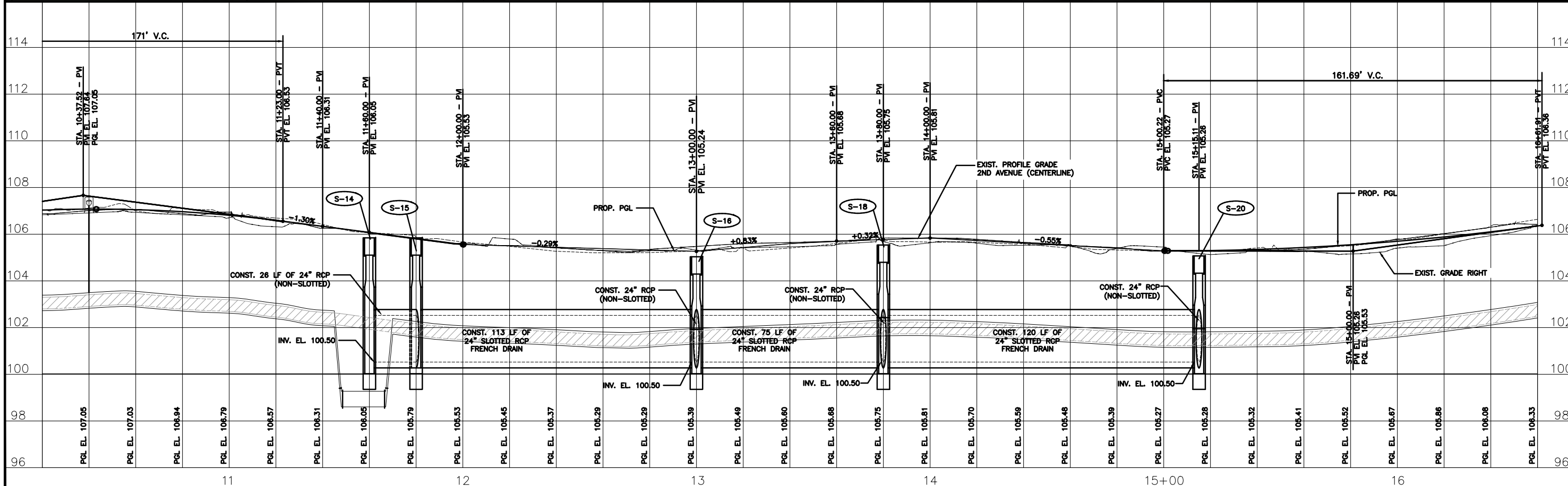
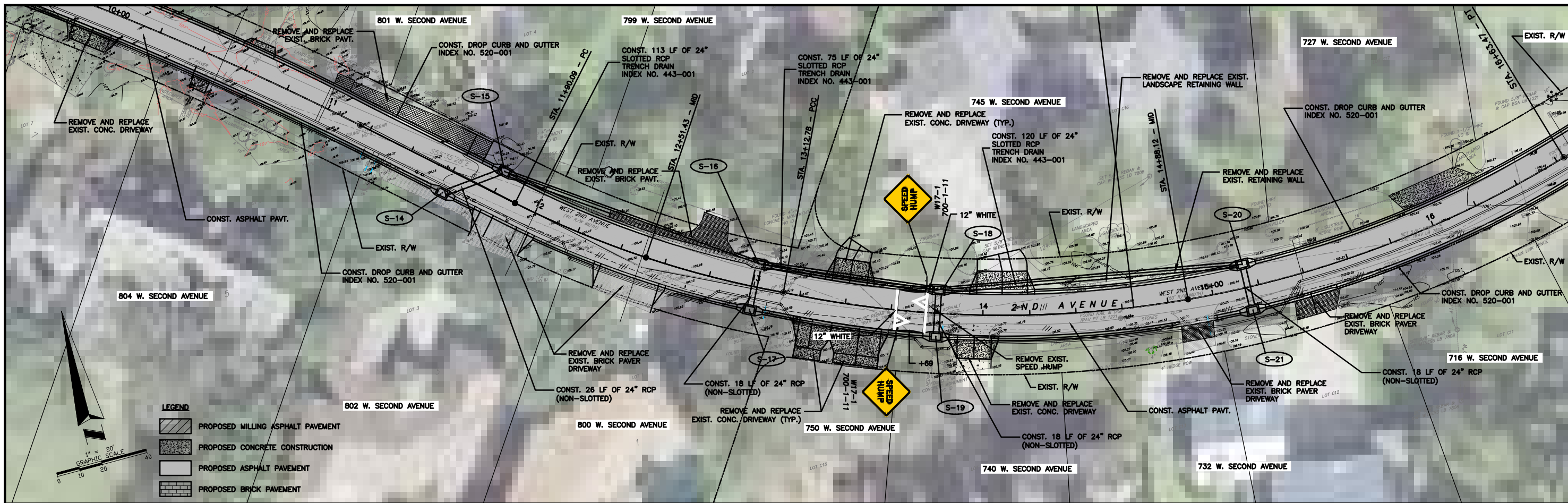
PROJECT LAYOUT
 DRWG. SHEET 21 OF 86



<table border="1"> <tr><td>REV.</td><td>DATE</td><td>DESCRIPTION</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	REV.	DATE	DESCRIPTION										<table border="1"> <tr><td>SIGN OFF</td><td>DATE</td></tr> <tr><td>CLIENT</td><td> </td></tr> <tr><td>PM/CM BC</td><td> </td></tr> <tr><td>PM/CM DM</td><td> </td></tr> <tr><td>PM</td><td> </td></tr> <tr><td>CM</td><td> </td></tr> <tr><td>APP'D BY</td><td>OTHERS</td></tr> </table>	SIGN OFF	DATE	CLIENT		PM/CM BC		PM/CM DM		PM		CM		APP'D BY	OTHERS	<table border="1"> <tr><td>FIELD:</td><td>PEC SURVEYING AND MAPPING, LLC</td></tr> <tr><td>DRAWN BY:</td><td>CADD</td></tr> <tr><td>DESIGNED BY:</td><td>MBG</td></tr> <tr><td>CHECKED BY:</td><td>MBG</td></tr> <tr><td>DATE:</td><td>NOVEMBER 2023</td></tr> </table>	FIELD:	PEC SURVEYING AND MAPPING, LLC	DRAWN BY:	CADD	DESIGNED BY:	MBG	CHECKED BY:	MBG	DATE:	NOVEMBER 2023	<p>MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC</p> <p>3222 Corrine Drive, Suite H Orlando, Florida 32803 CERTIFICATE OF AUTHORIZATION NO. 29032</p> <p>407/493-9983</p>	<p>TOWN OF WINDERMERE PUBLIC WORKS DEPARTMENT 614 MAIN STREET, WINDERMERE, FLORIDA 34786</p>	<table border="1"> <tr><td>JOB No.</td><td>TOW-052.01.000</td></tr> <tr><td>FILE NAME:</td><td>SEE LEFT MARGIN</td></tr> <tr><td>ARCHIVE DISC:</td><td> </td></tr> <tr><td>SCALE:</td><td>HORIZ. = 1"=20' VERT. = 1"=2'</td></tr> </table>	JOB No.	TOW-052.01.000	FILE NAME:	SEE LEFT MARGIN	ARCHIVE DISC:		SCALE:	HORIZ. = 1"=20' VERT. = 1"=2'	<p>PLAN AND PROFILE W. SECOND AVENUE</p> <p>DRWG. SHEET 22 OF 86</p>
REV.	DATE	DESCRIPTION																																																
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SIGN OFF CLIENT PM/CM BC PM/CM DM PM CM APP'D BY OTHERS		DATE FIELD: PEC SURVEYING AND MAPPING, LLC DRAWN BY: CADD DESIGNED BY: MBG CHECKED BY: MBG DATE: NOVEMBER 2023		MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC 3222 Corrine Drive, Suite H Orlando, Florida 32803 CERTIFICATE OF AUTHORIZATION NO. 29032		TOWN OF WINDERMERE PUBLIC WORKS DEPARTMENT 614 MAIN STREET, WINDERMERE, FLORIDA 34786		JOB No. TOW-052.01.000 FILE NAME: SEE LEFT MARGIN ARCHIVE DISC: SCALE: HORIZ. = 1"=20' VERT. = 1"=2'		PLAN AND PROFILE W. SECOND AVENUE DRWG. SHEET 23 OF 86	
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REV.	DATE	DESCRIPTION	APP'D BY	OTHERS

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CLIENT	PEC SURVEYING AND MAPPING, LLC	
PM/CM BC		
PM/CM DM	DRAWN BY: CADD	
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MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC

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TOWN OF WINDERMERE
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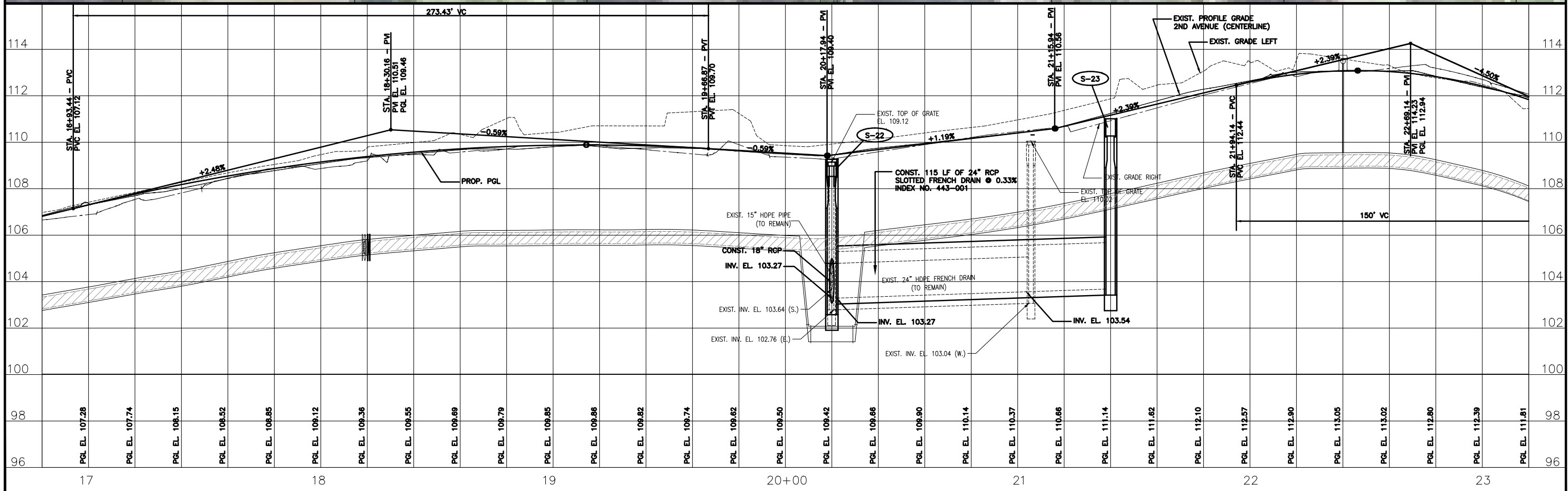
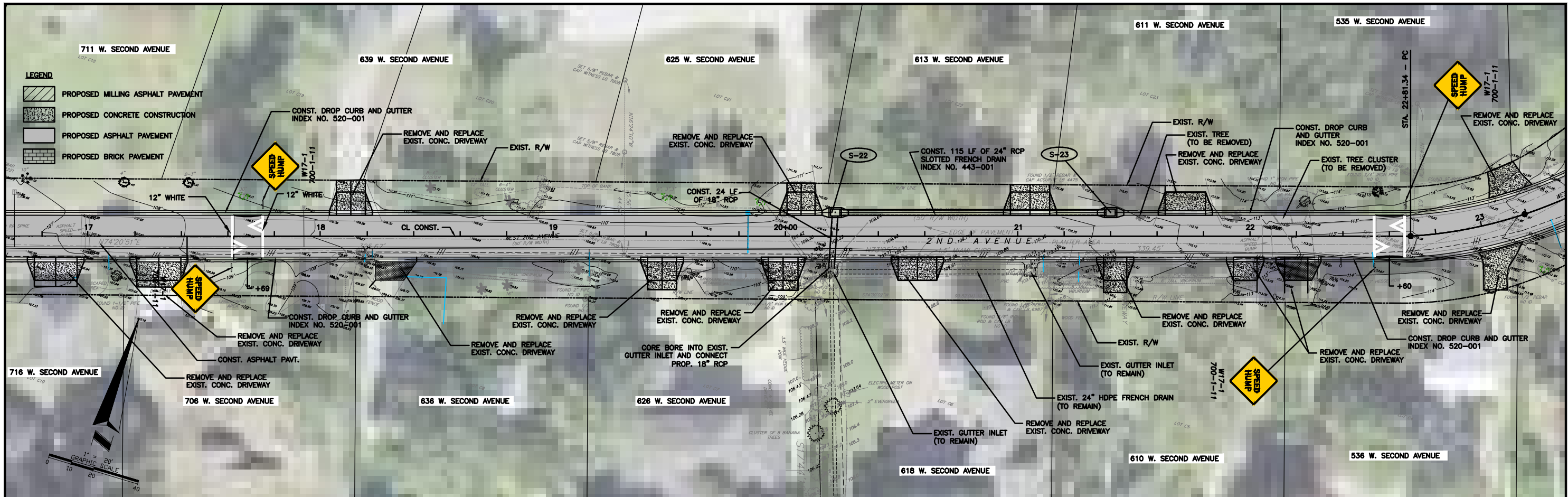
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VERT. = 1"=2'

PLAN AND PROFILE
W. SECOND AVENUE

DRWG. SHEET 24 OF 86



REV.	DATE	DESCRIPTION	APP'D BY	OTHERS

SIGN OFF	DATE	FIELD:
CLIENT		PEC SURVEYING AND MAPPING, LLC
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MICHAEL GALURA
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CONSULTANTS, LLC

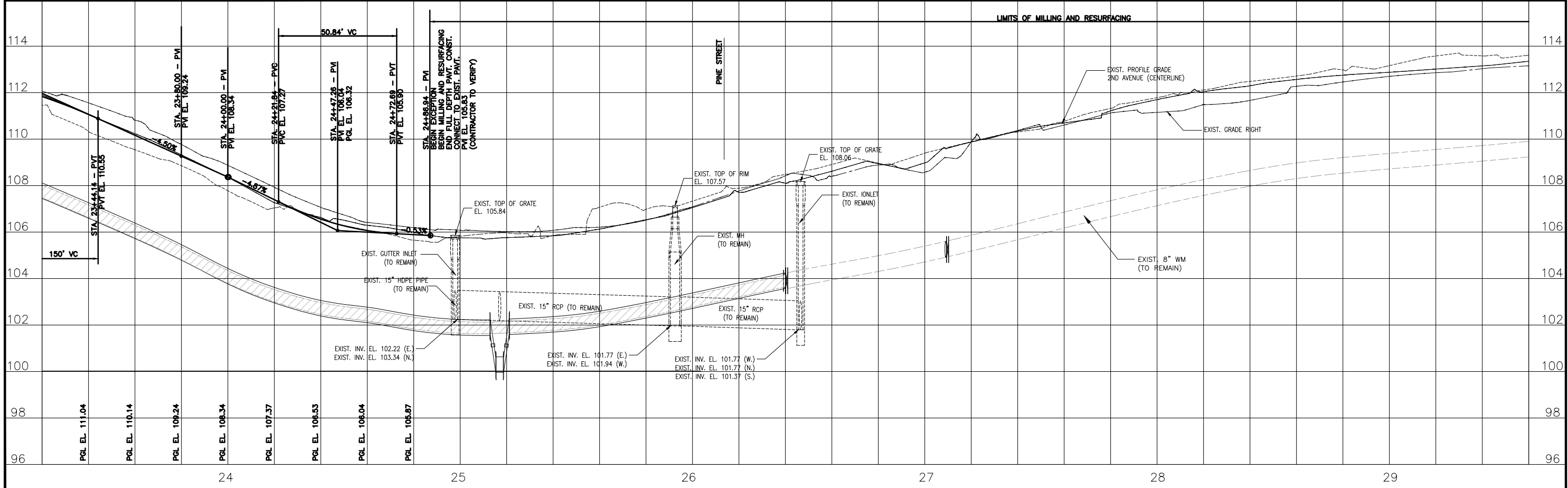
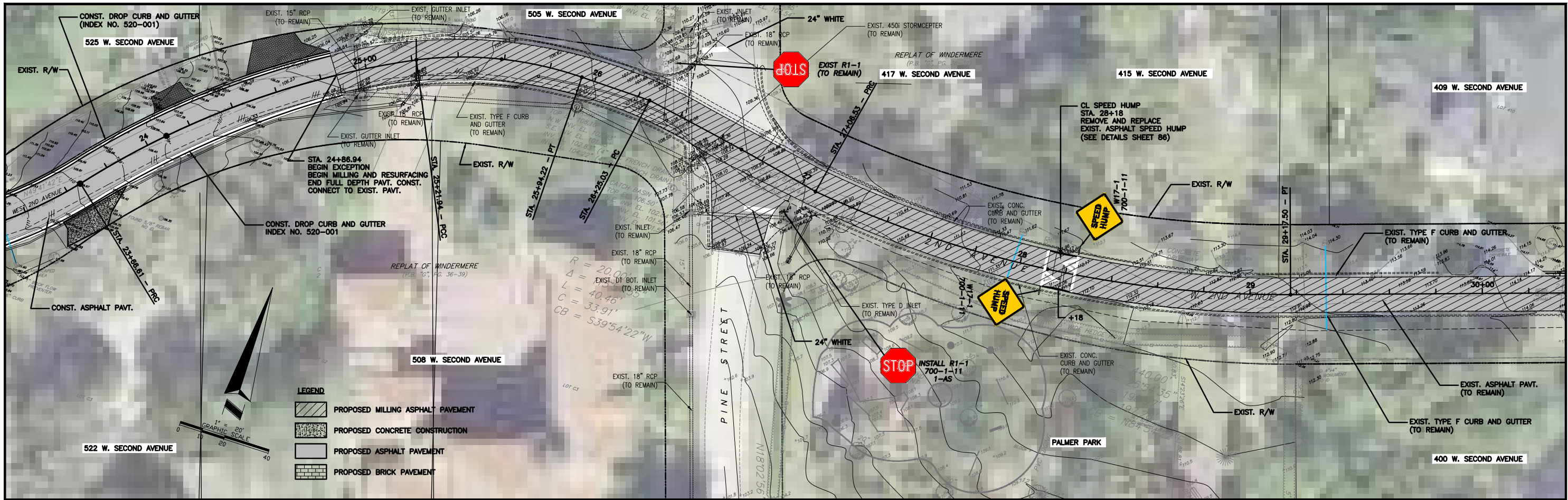
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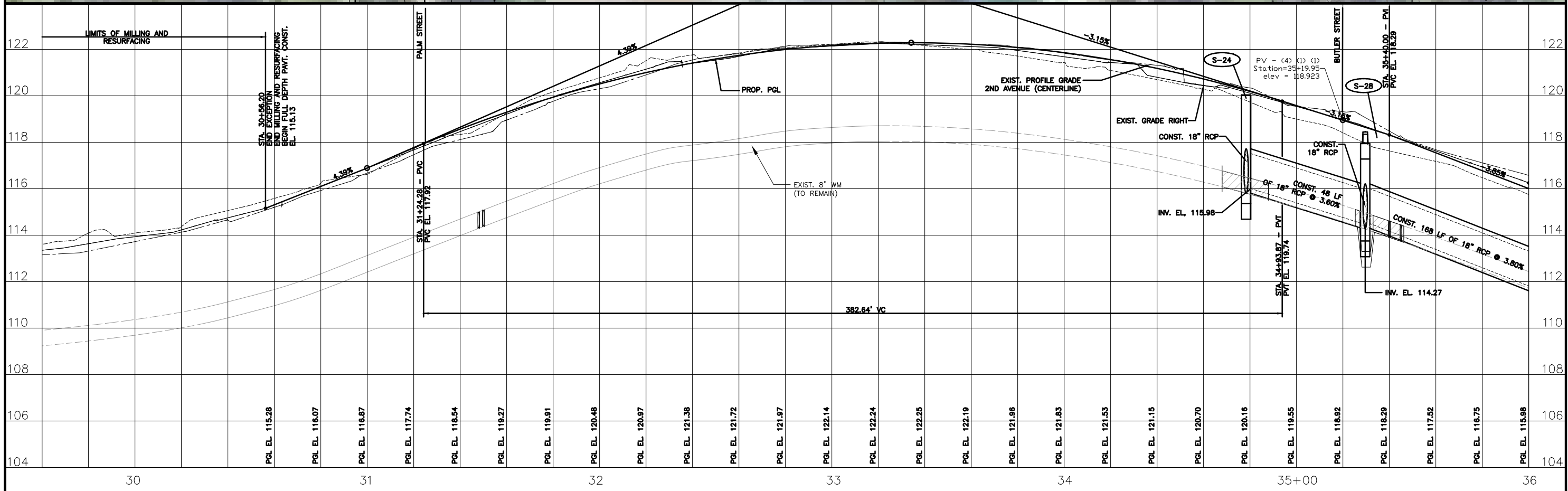
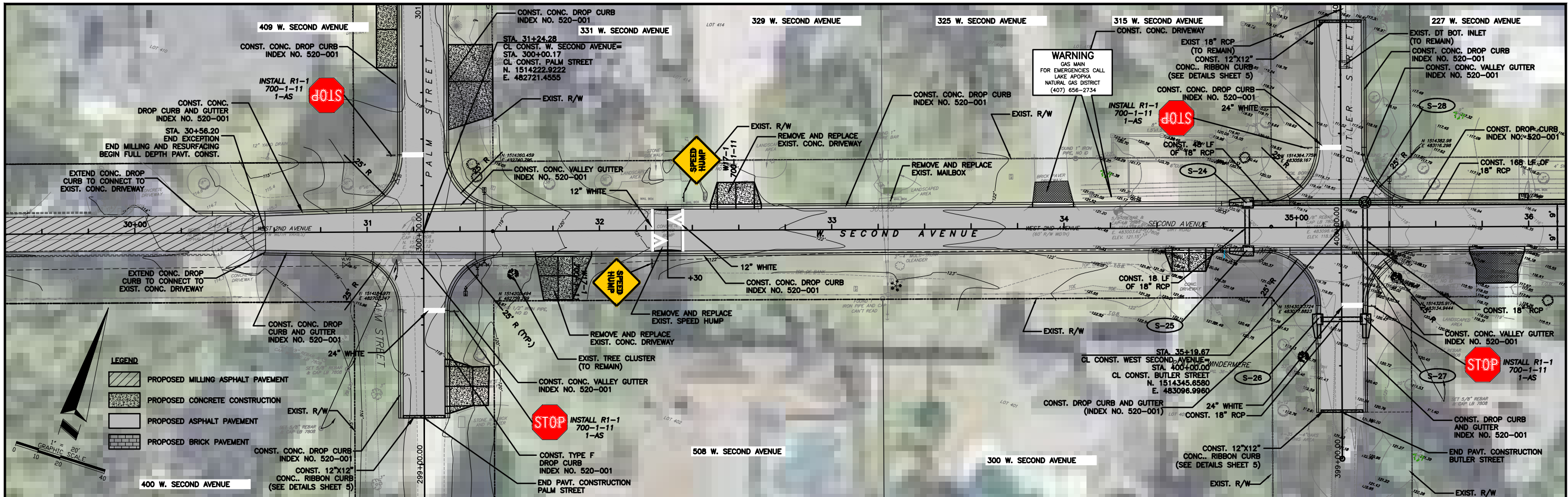
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PLAN AND PROFILE
W. SECOND AVENUE

DRWG. SHEET 25 OF 86



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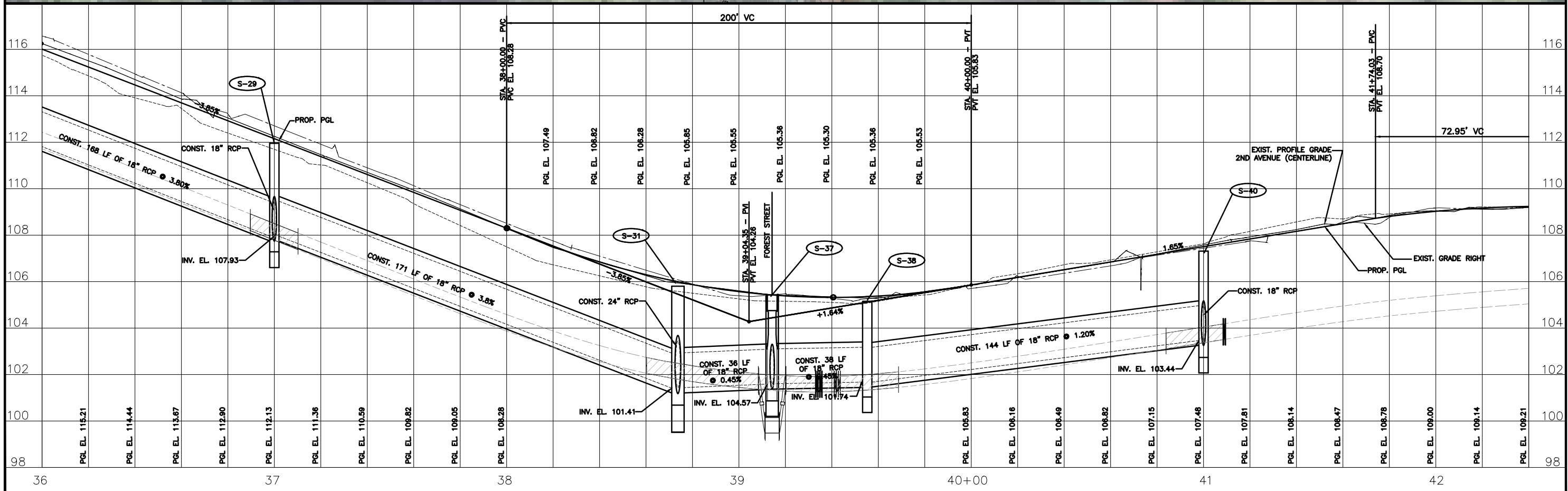
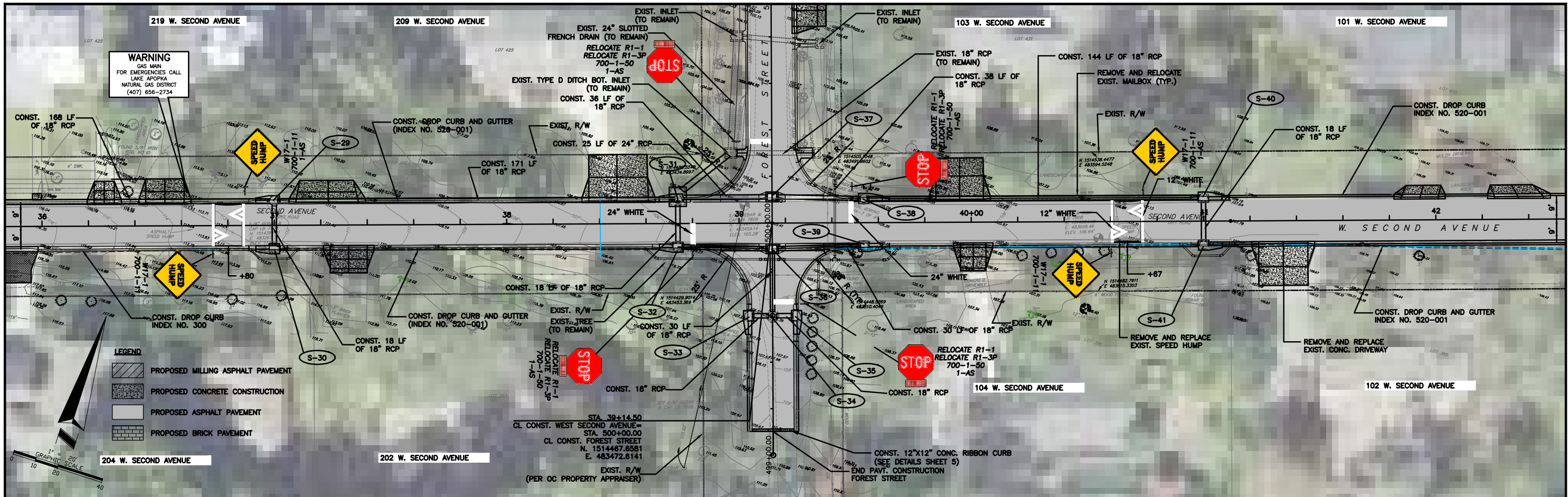


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 614 MAIN STREET, WINDERMERE, FLORIDA 34786

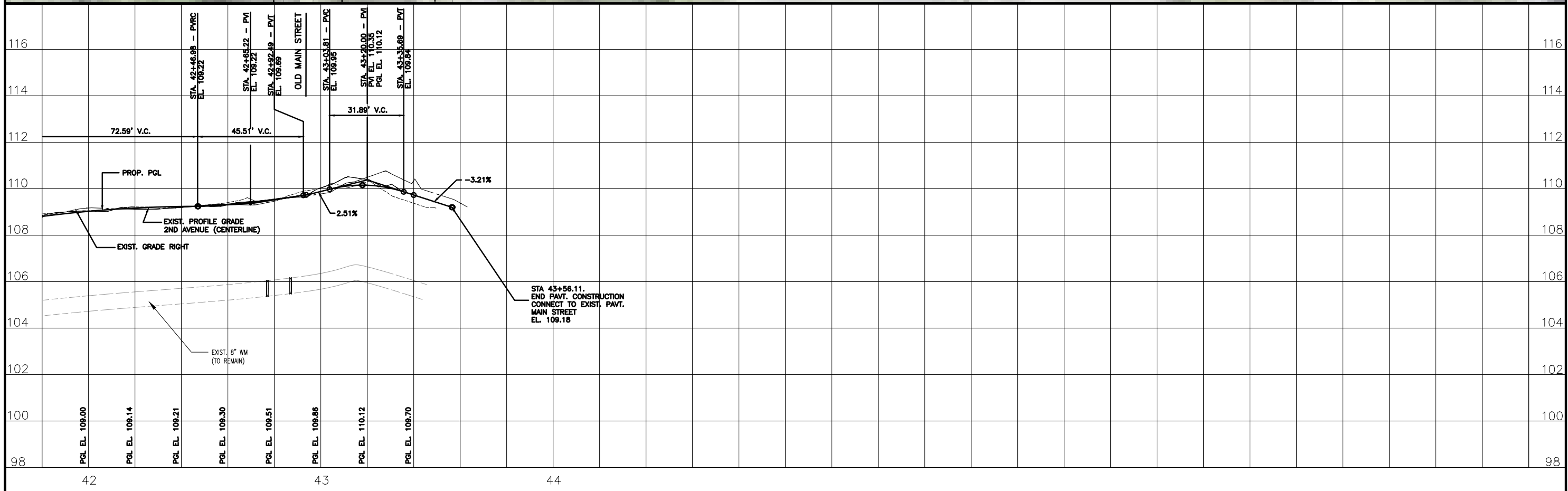
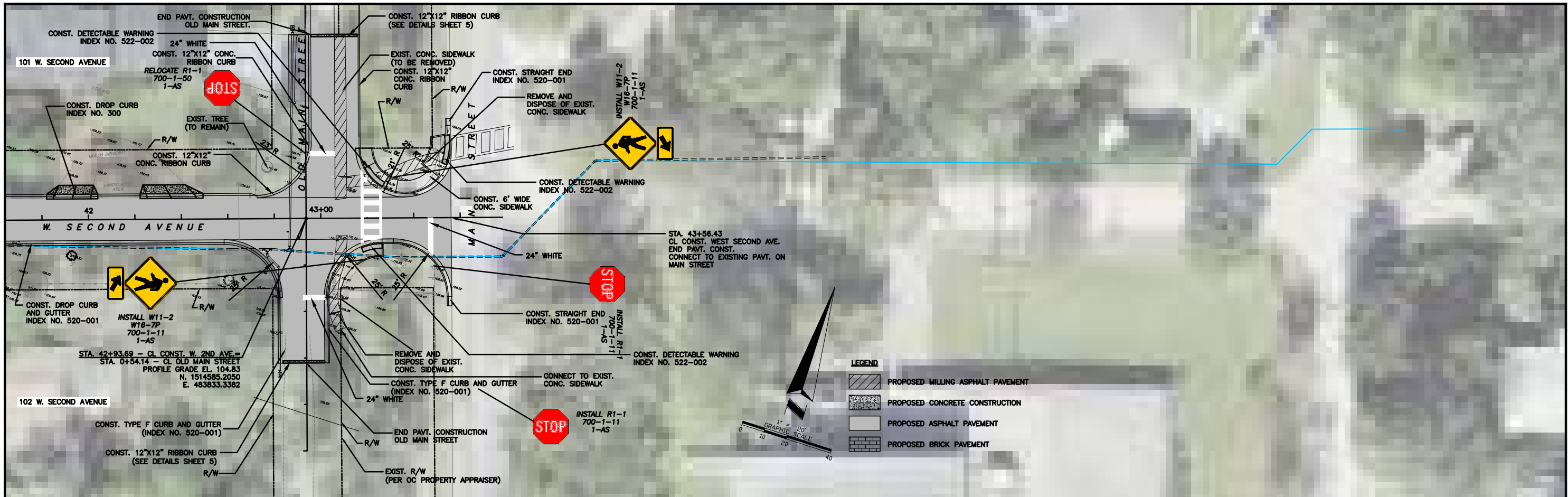
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PLAN AND PROFILE
W. SECOND AVENUE

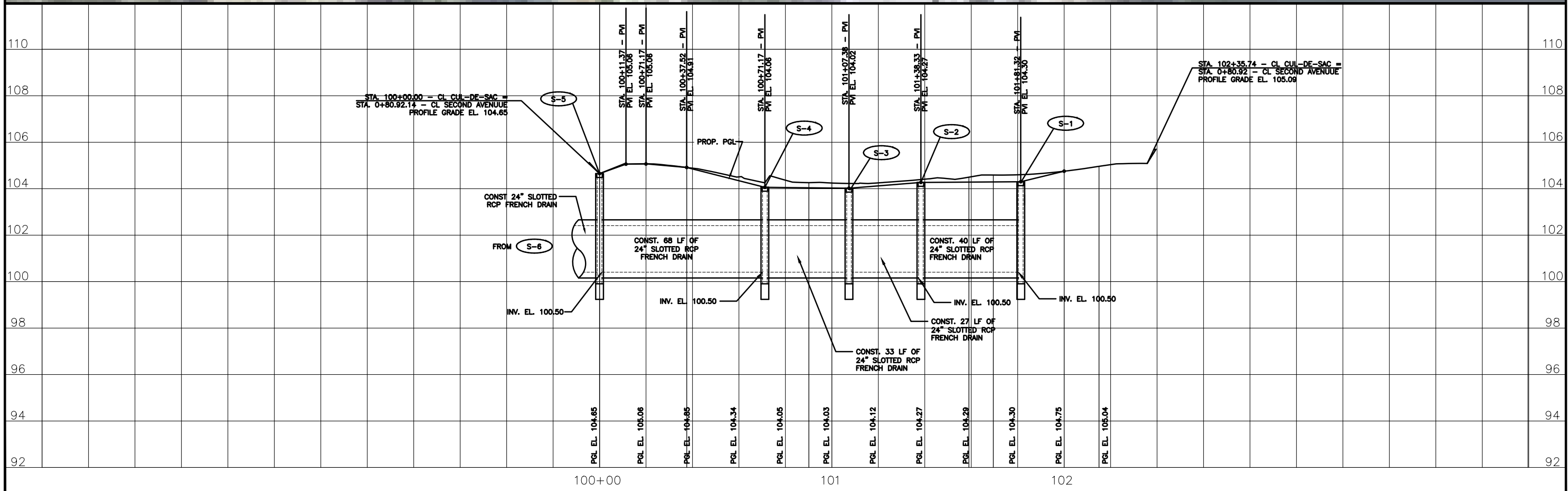
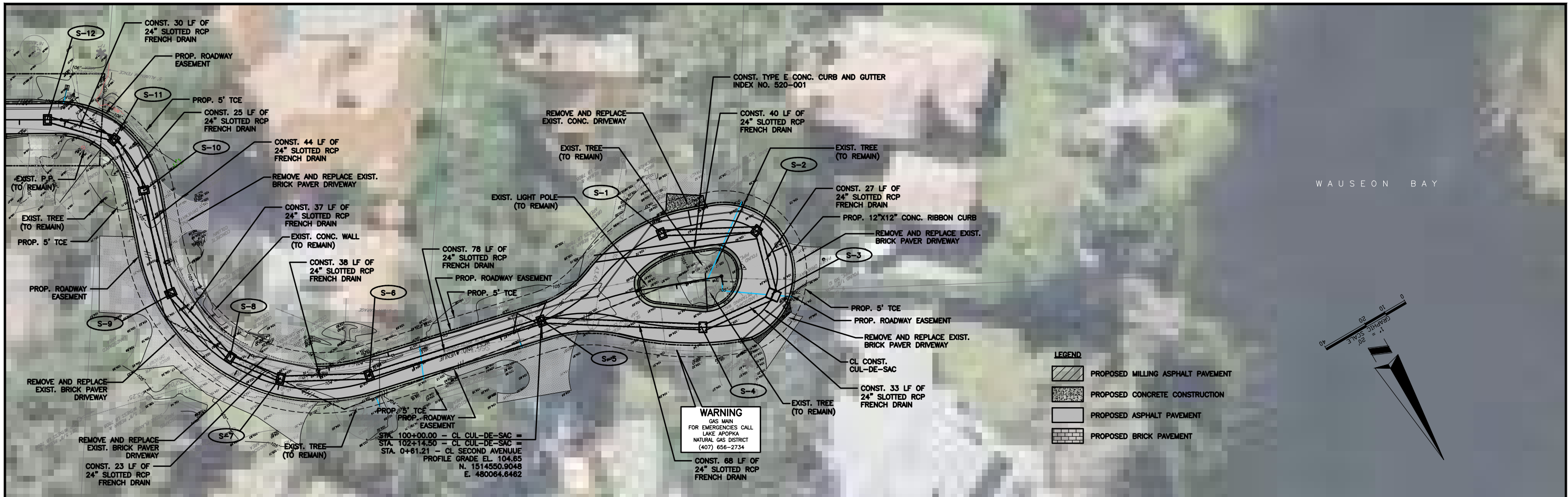
DRWG. SHEET 27 OF 86



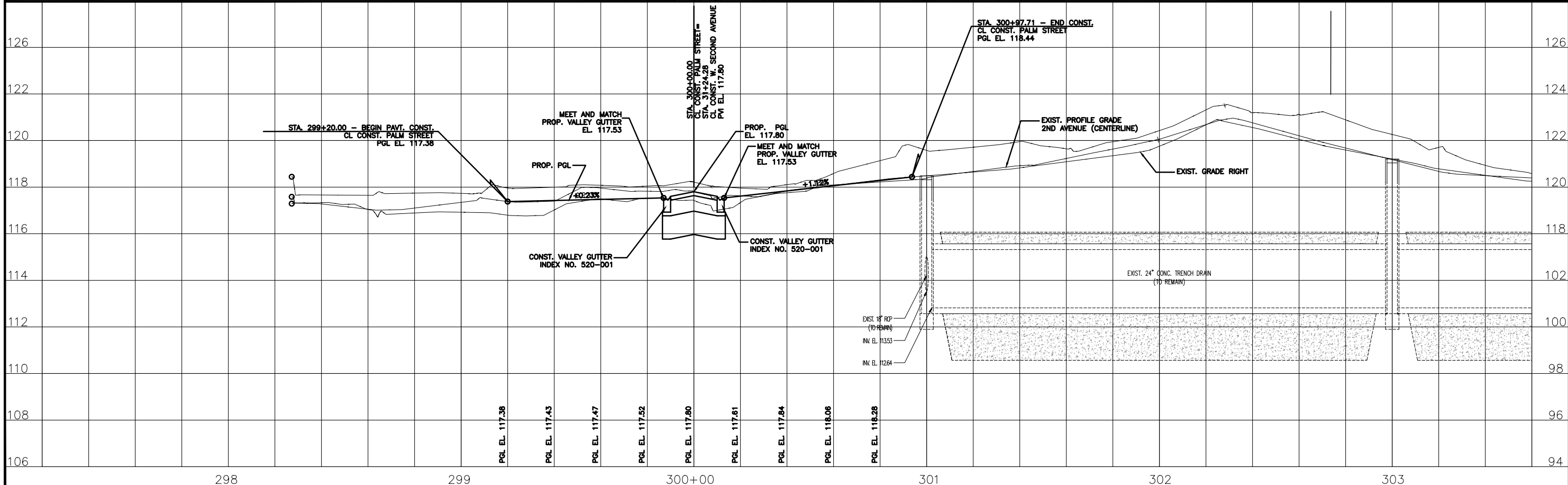
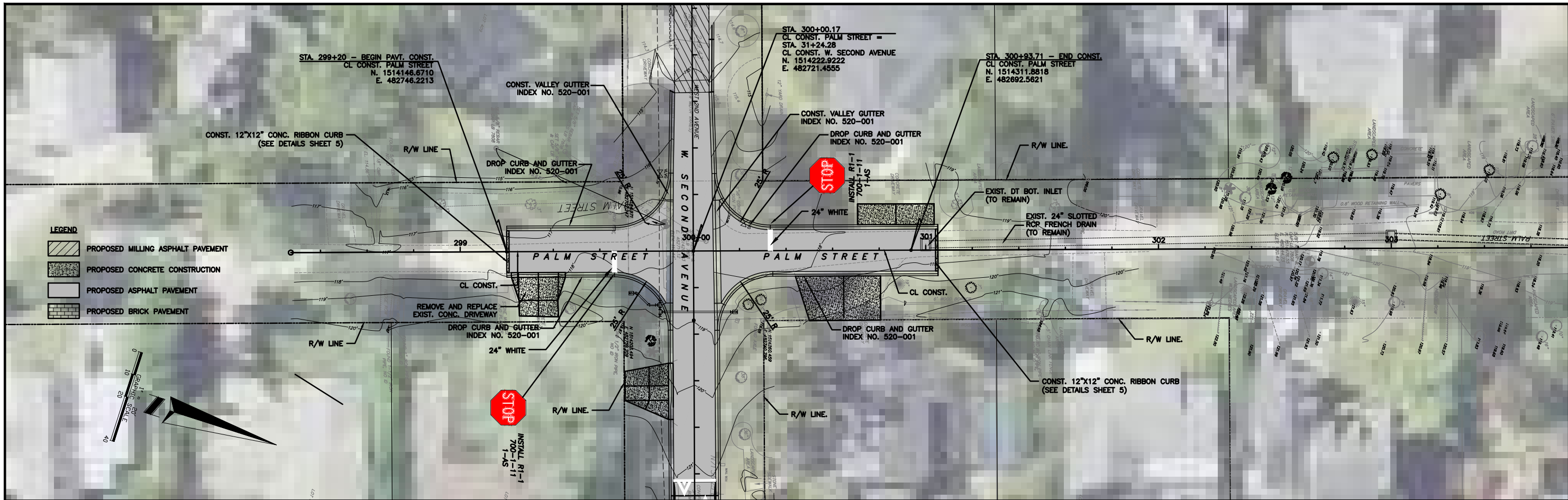
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CLIENT			PEC SURVEYING AND MAPPING, LLC	
PM/CM BC			DRAWN BY: CADD	
PM/CM DM			DESIGNED BY: MBG	
PM			CHECKED BY: MBG	
CM			DATE: NOVEMBER 2023	
			MGECC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC	
			3222 Corrine Drive, Suite H Orlando, Florida 32803 407/493-9983	
			CERTIFICATE OF AUTHORIZATION NO. 29032	
			TOWN OF WINDERMERE PUBLIC WORKS DEPARTMENT 614 MAIN STREET, WINDERMERE, FLORIDA 34786	
			JOB No. TOW-052.01.000	
			FILE NAME: SEE LEFT MARGIN	
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			PLAN AND PROFILE W. SECOND AVENUE	
			DRWG. SHEET 28 OF 86	



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CLIENT			PEC SURVEYING AND MAPPING, LLC			FILE NAME: SEE LEFT MARGIN	
PM/CM BC			DRAWN BY: CADD			ARCHIVE DISC:	
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REV.	DATE	DESCRIPTION	APP'D BY	DATE: NOVEMBER 2023			SHEET 30 OF 86



REV.	DATE	DESCRIPTION	APP'D BY	OTHERS

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CLIENT		PEC SURVEYING AND MAPPING, LLC
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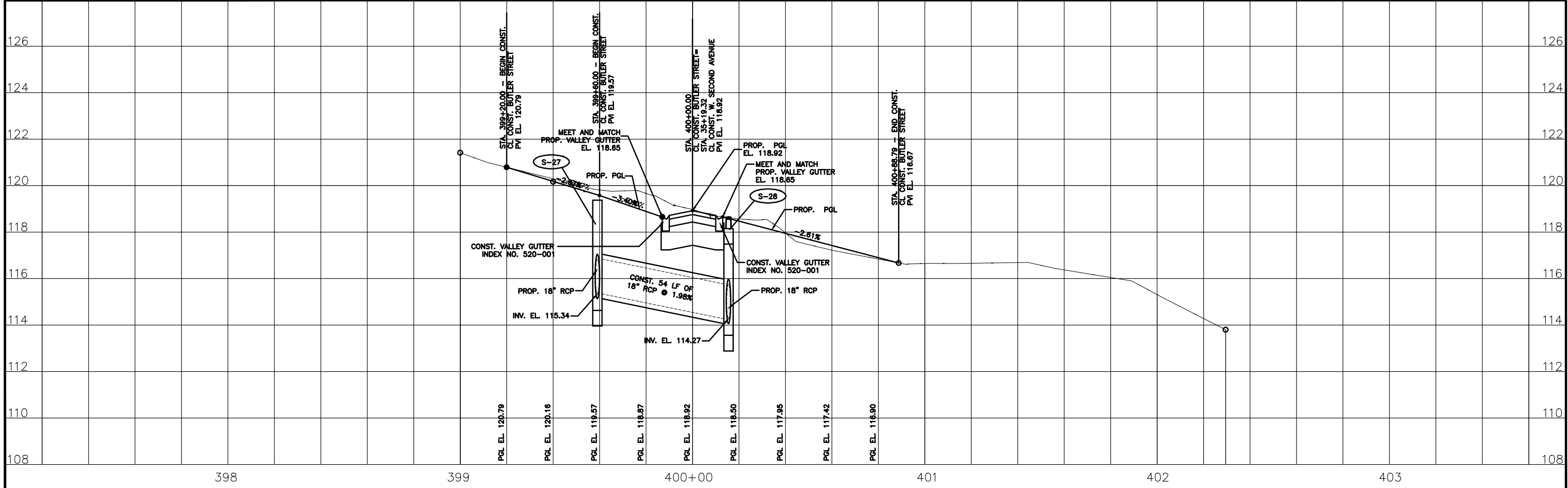
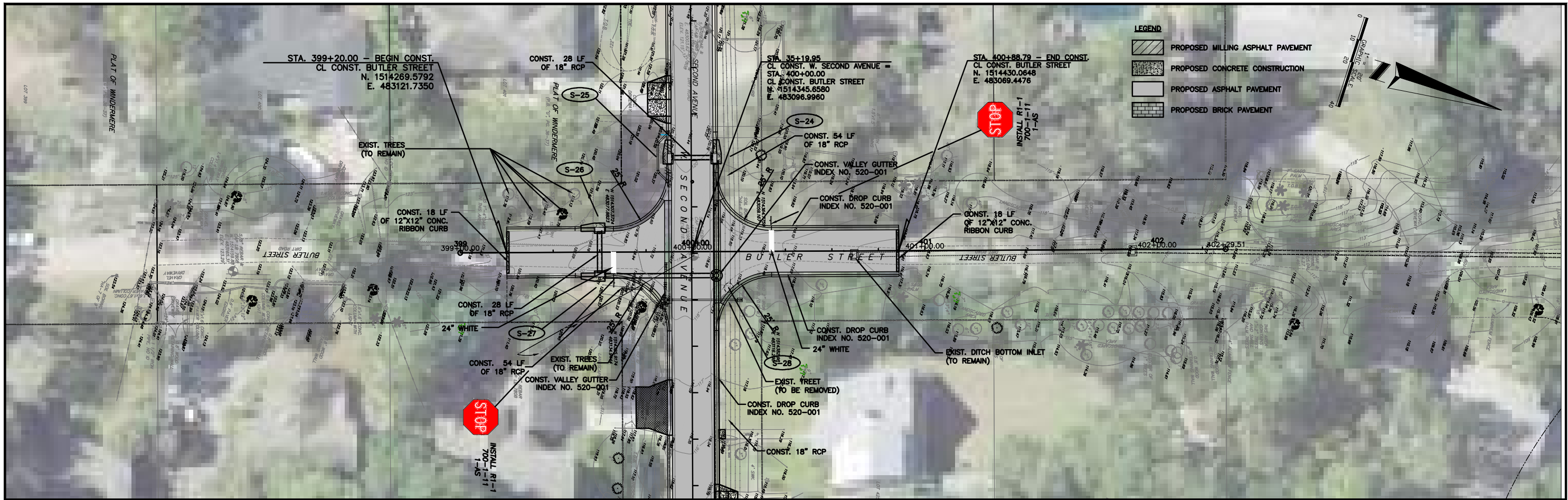
MGEC MICHAEL GALURA
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CONSULTANTS, LLC

3222 Corrine Drive, Suite H
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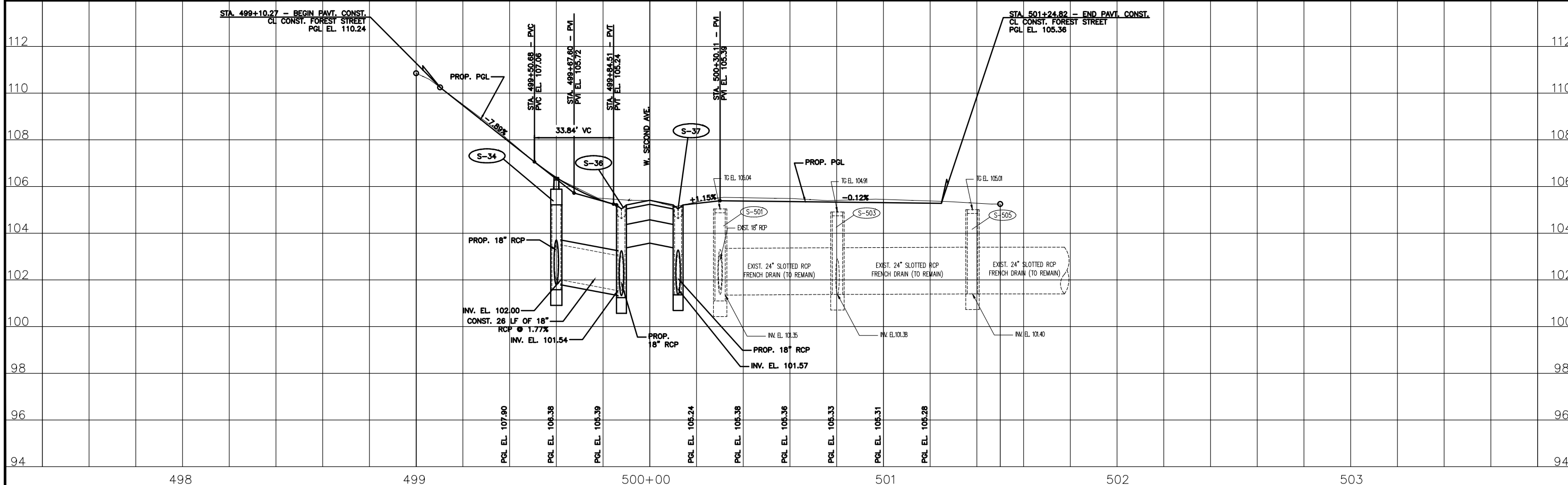
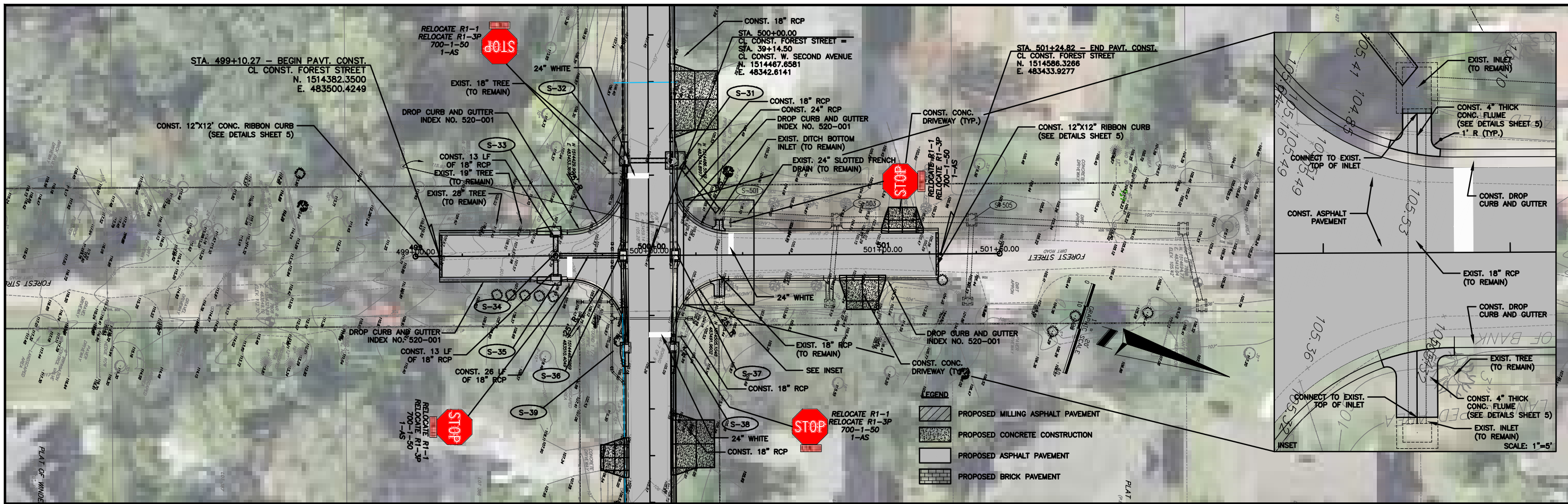
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TOWN OF WINDERMERE
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614 MAIN STREET, WINDERMERE, FLORIDA 34786

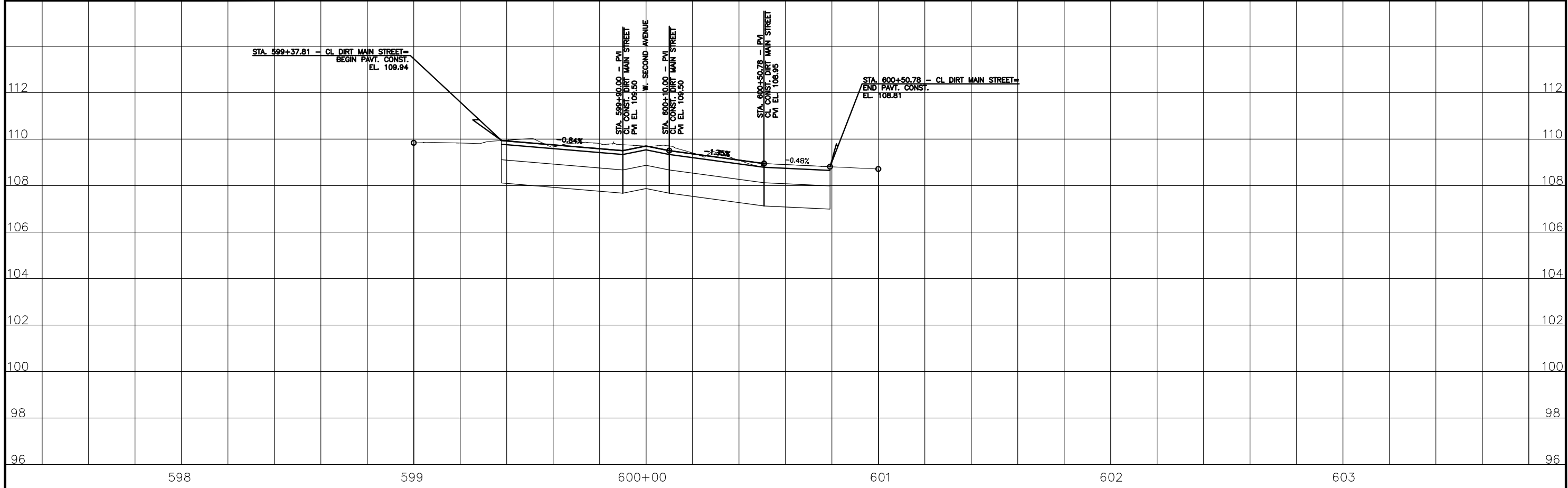
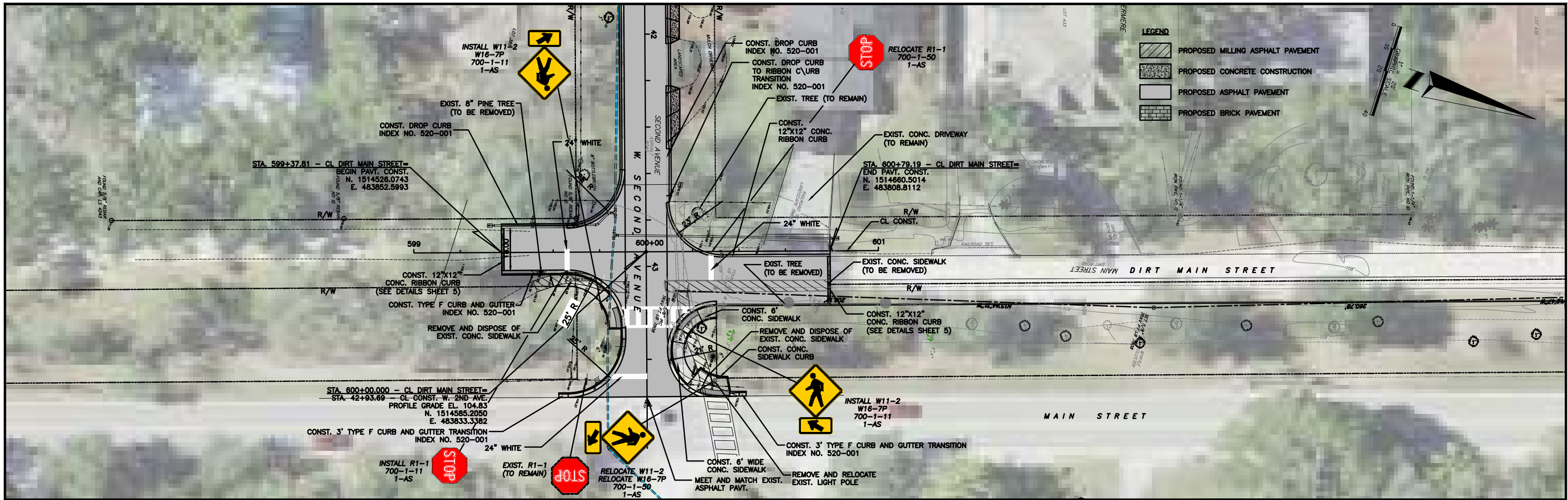
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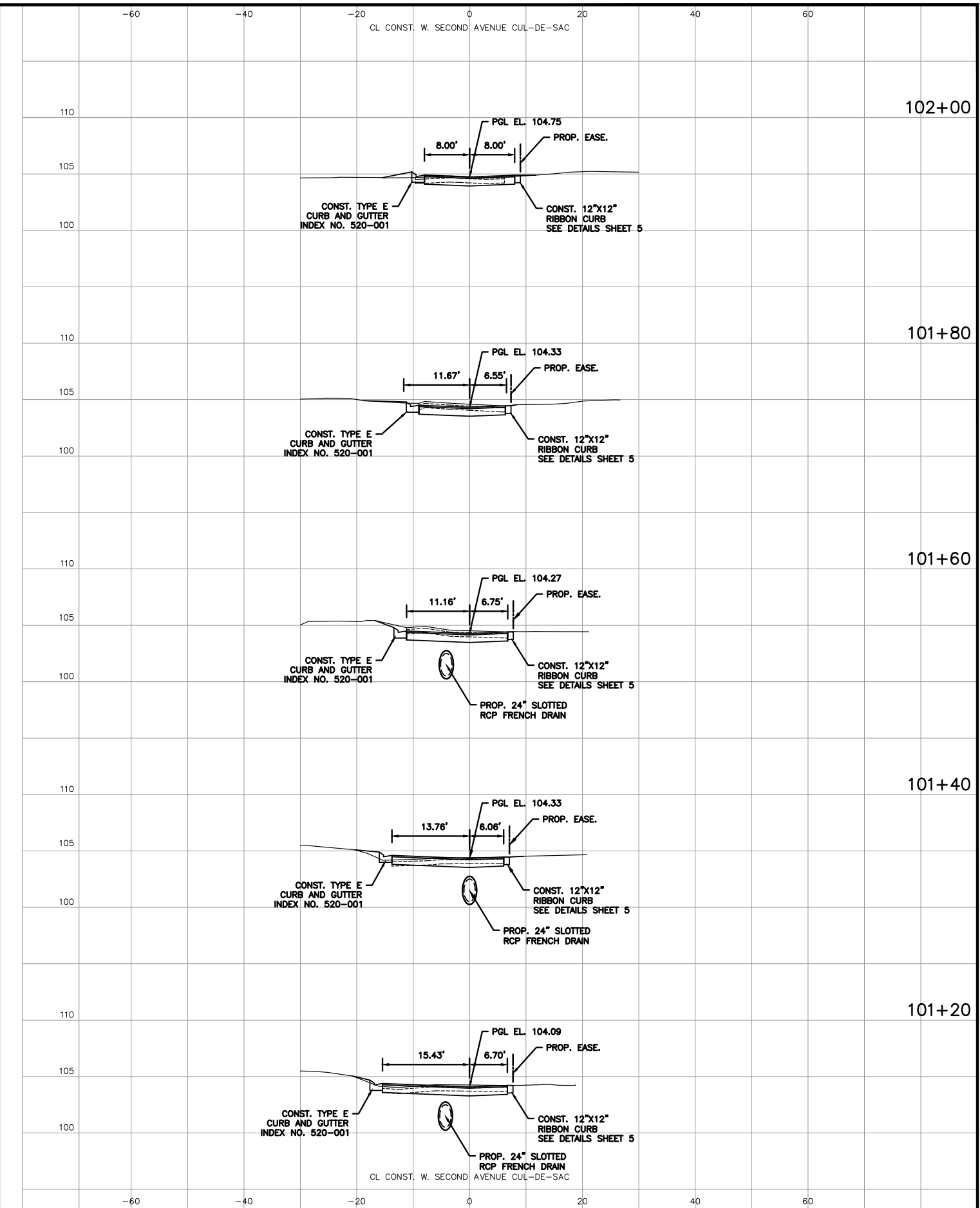
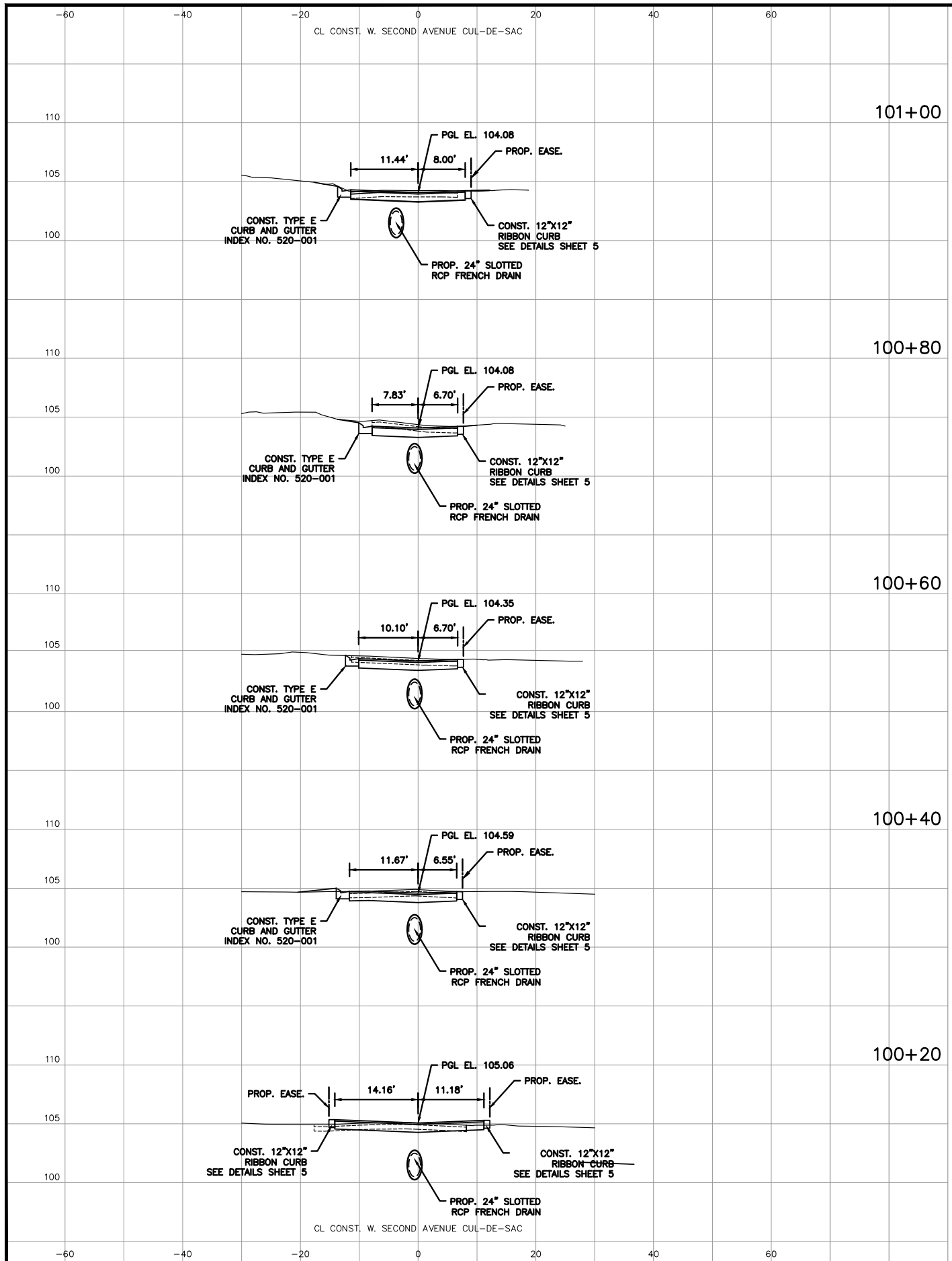
SIGN OFF		DATE	FIELD:	MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC 3222 Corrine Drive, Suite H Orlando, Florida 32803 CERTIFICATE OF AUTHORIZATION NO. 29032	TOWN OF WINDERMERE PUBLIC WORKS DEPARTMENT 614 MAIN STREET, WINDERMERE, FLORIDA 34786	JOB No. TOW-052.01.000	PLAN AND PROFILE BUTLER STREET
CLIENT			PEC SURVEYING AND MAPPING, LLC			FILE NAME: SEE LEFT MARGIN	
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CLIENT			PEC SURVEYING AND MAPPING, LLC			MICHAEL GALURA ENGINEERING CONSULTANTS, LLC			PUBLIC WORKS DEPARTMENT			FILE NAME: SEE LEFT MARGIN				
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PM/CM DM			DESIGNED BY: MBG			Orlando, Florida 32803			407/493-9983			SCALE: HORIZ. = 1"=20'				
PM			CHECKED BY: MBG			CERTIFICATE OF AUTHORIZATION NO. 29032						SCALE: VERT. = 1"=2'				
CM			DATE: NOVEMBER 2023									DRWG.				
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SIGN OFF: _____ DATE: _____ CLIENT: _____ PM/CM BC: _____ PM/CM DM: _____ PM: _____ CM: _____ APP'D BY: _____ OTHERS: _____		FIELD: PEC SURVEYING AND MAPPING, LLC DRAWN BY: CADD DESIGNED BY: MBG CHECKED BY: MBG DATE: NOVEMBER 2023		MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC 3222 Corrine Drive, Suite H Orlando, Florida 32803 CERTIFICATE OF AUTHORIZATION NO. 29032		TOWN OF WINDERMERE PUBLIC WORKS DEPARTMENT 614 MAIN STREET, WINDERMERE, FLORIDA 34786		JOB No. TOW-052.01.000 FILE NAME: SEE LEFT MARGIN ARCHIVE DISC: SCALE: HORIZ. = 1"=20' VERT. = 1"=2'		PLAN AND PROFILE DIRT MAIN DRWG. SHEET 34 OF 86	
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REV.	DATE	DESCRIPTION	APP'D BY

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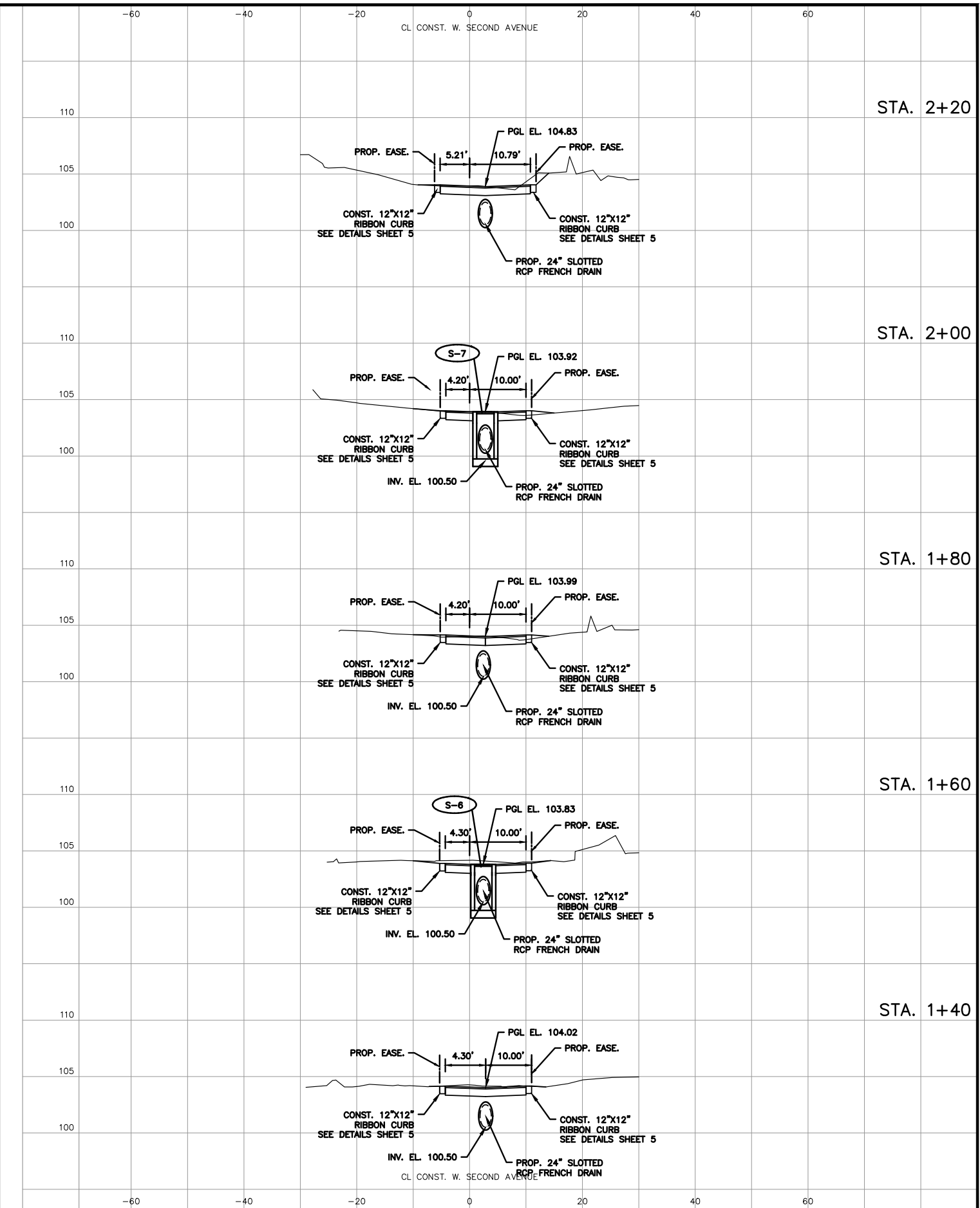
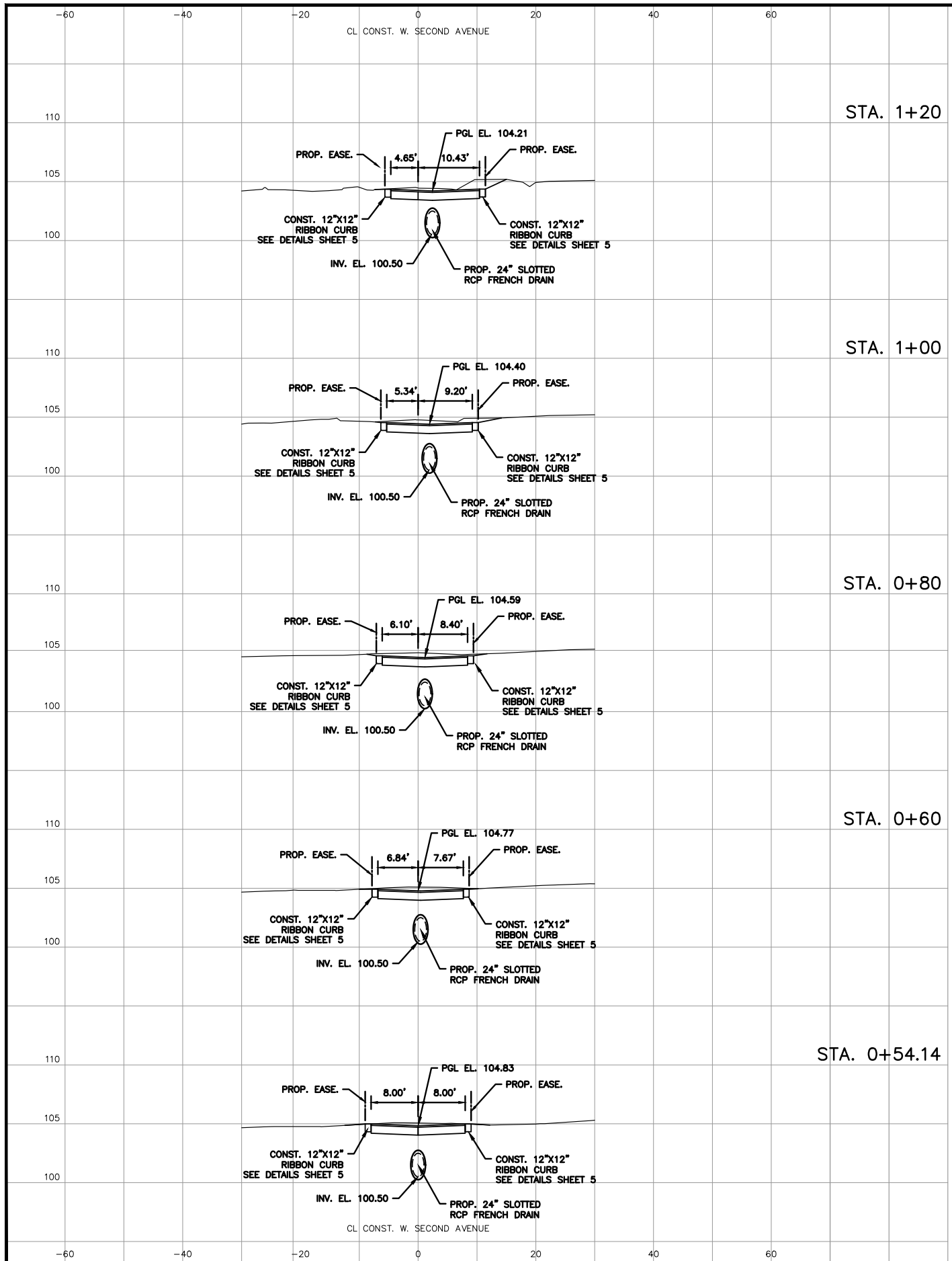
MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
 3222 Corrine Drive, Suite H
 Orlando, Florida 32803 407/493-9983
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TOWN OF WINDERMERE
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JOB No. TOW-052.01.000
 FILE NAME: SEE LEFT MARGIN
 ARCHIVE DISC:
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 VERT. = 1"=5'

CROSS-SECTIONS CUL-DE-SAC

DRWG. SHEET 35 OF 86



REV.	DATE	DESCRIPTION	APP'D BY

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CLIENT		PEC SURVEYING AND MAPPING, LLC
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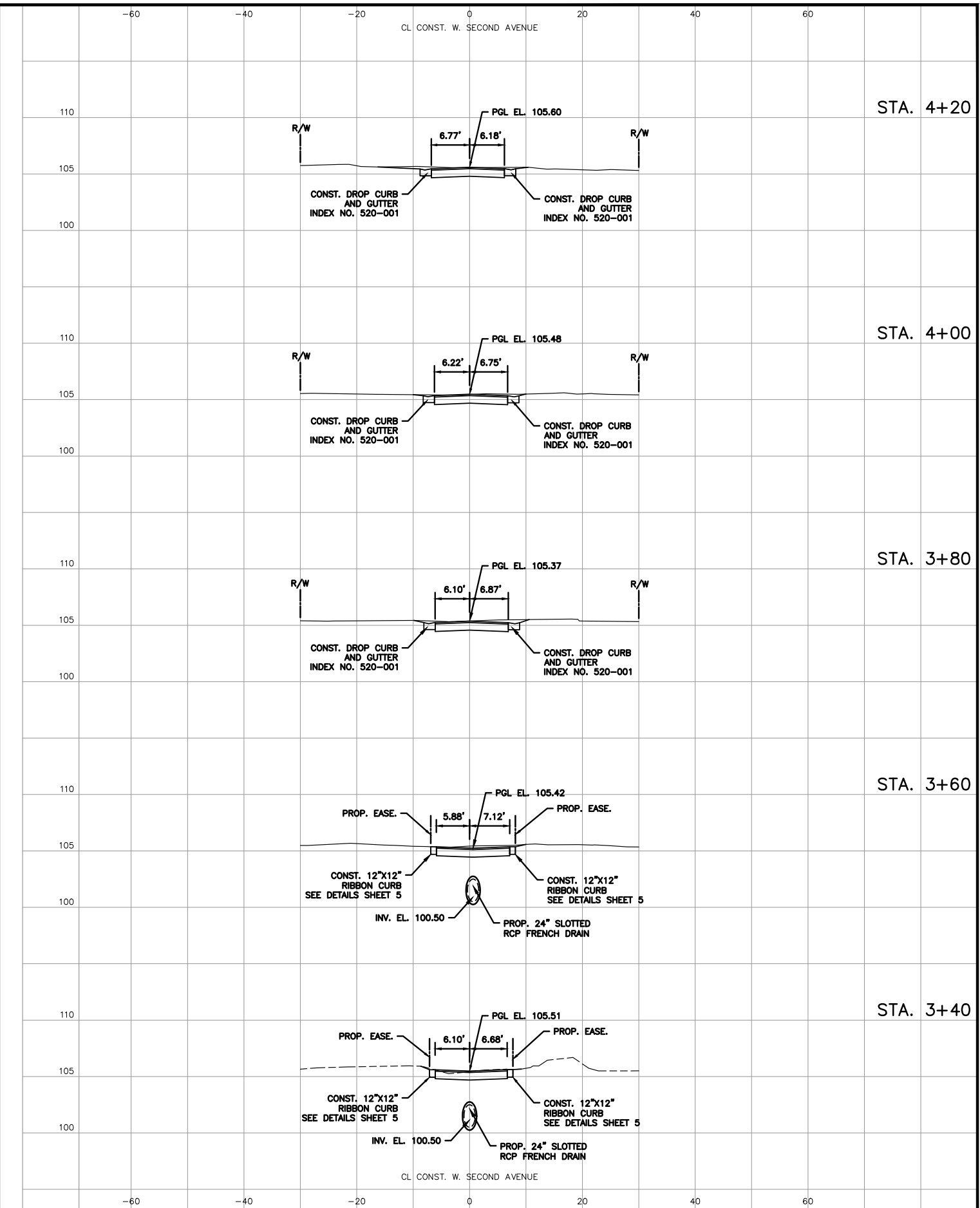
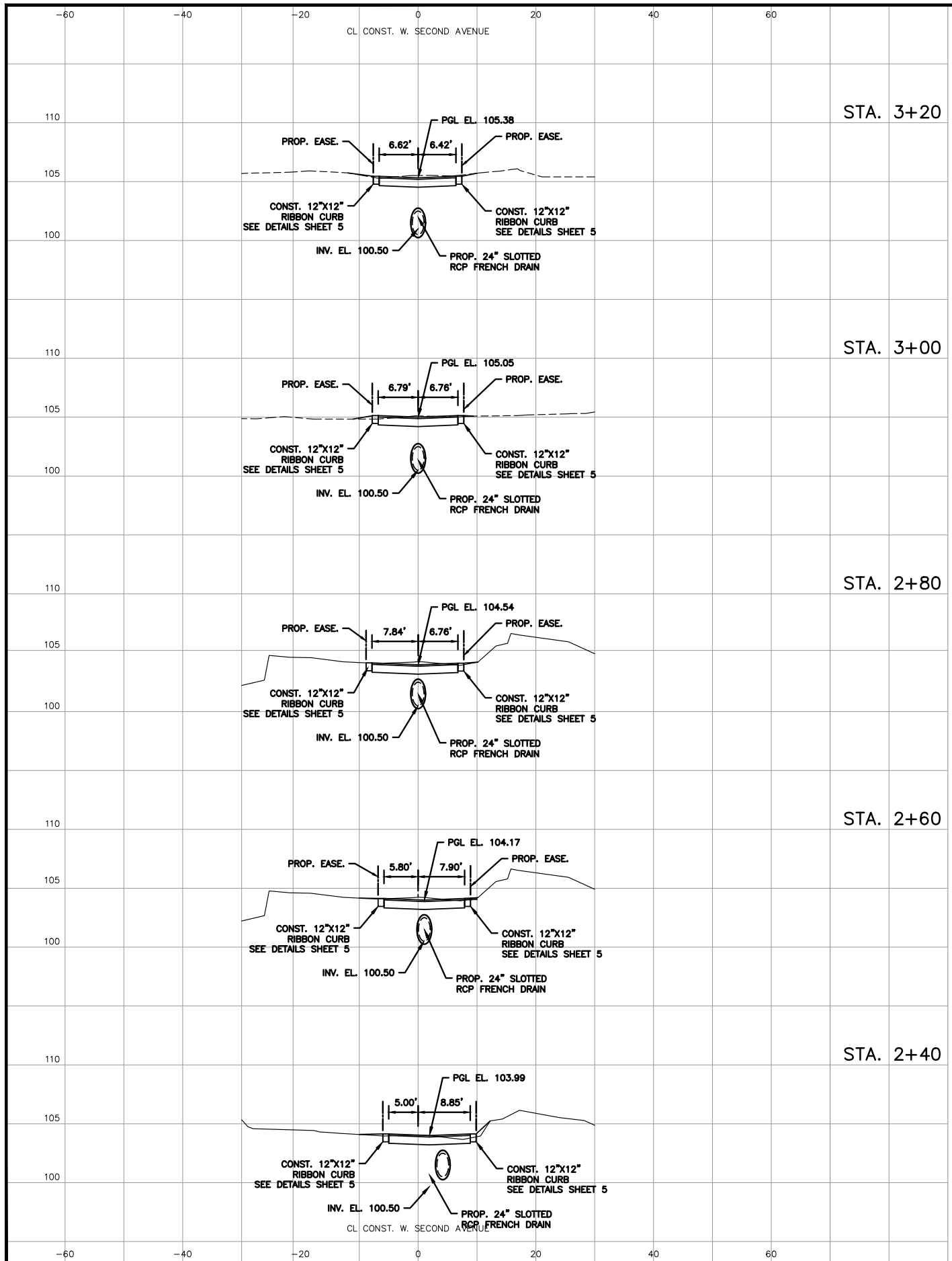
MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
 3222 Corrine Drive, Suite H
 Orlando, Florida 32803 407/493-9983
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TOWN OF WINDERMERE
 PUBLIC WORKS DEPARTMENT
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SCALE: HORIZ. = 1"=10' VERT. = 1"=5'

CROSS-SECTIONS
W. SECOND AVENUE
STA. 0+54.14 TO STA. 2+20

DRWG. SHEET 36 OF 86



REV.	DATE	DESCRIPTION	APP'D BY

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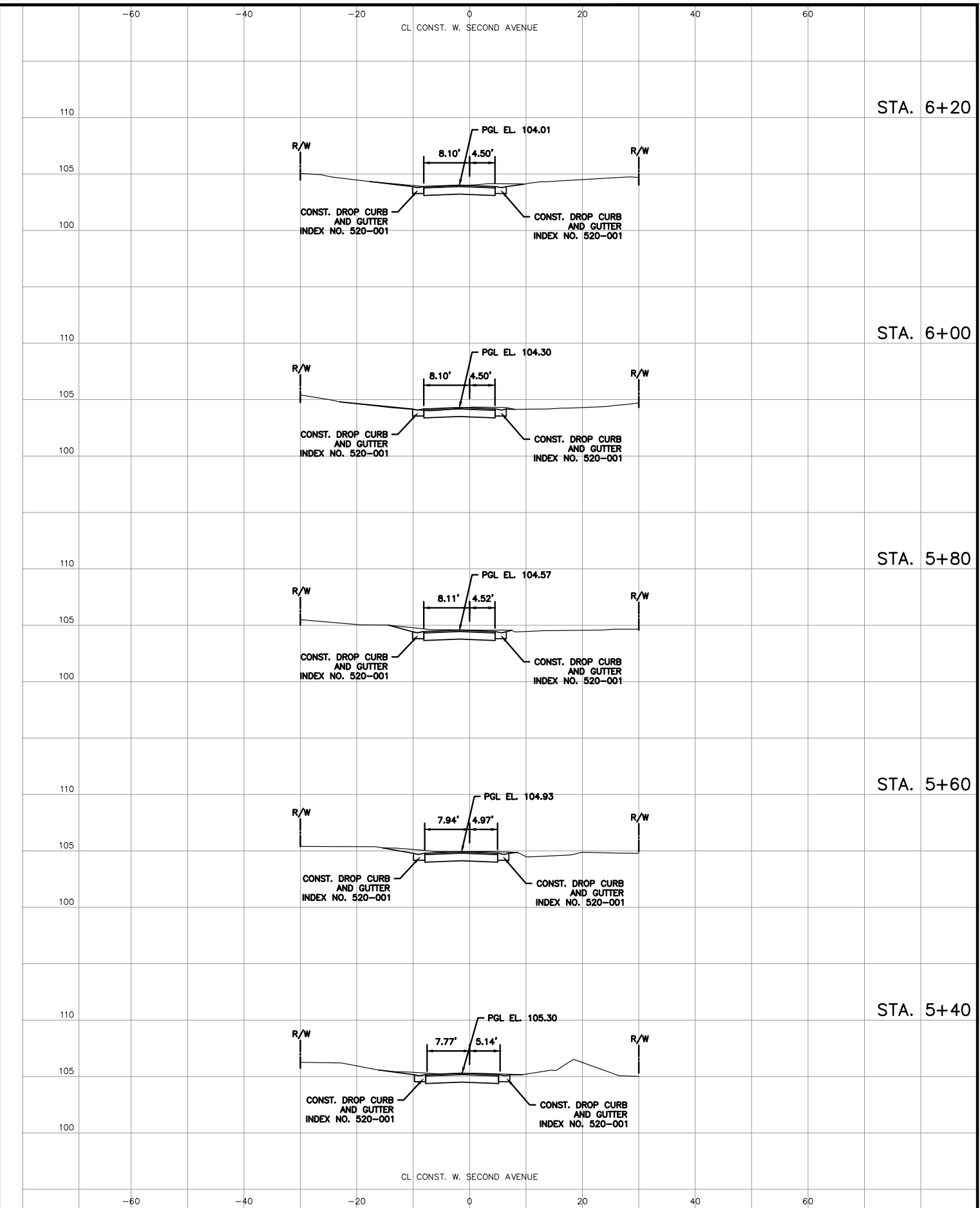
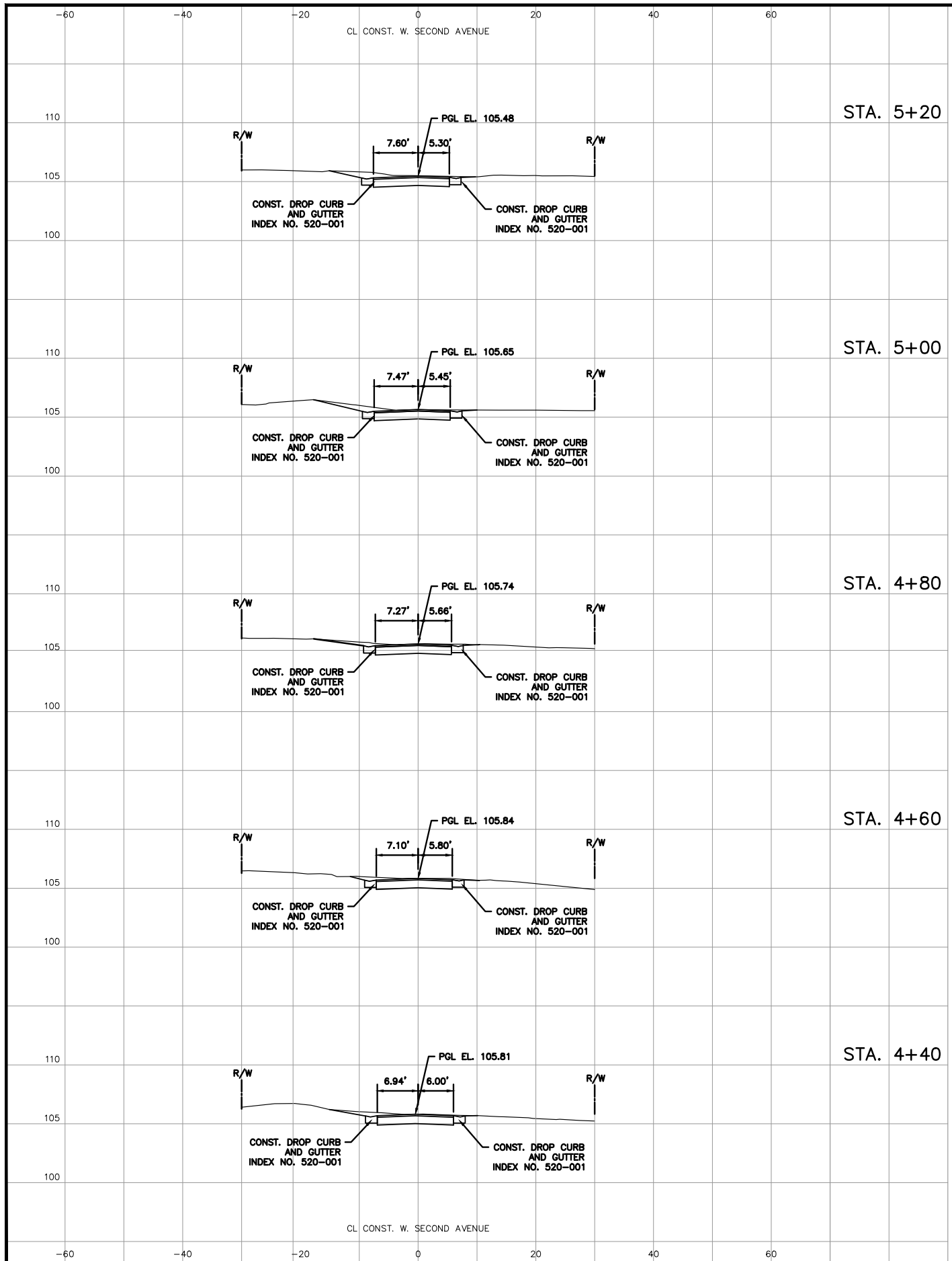
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**CROSS-SECTIONS
 W. SECOND AVENUE**

DRWG. SHEET **37** OF **86**



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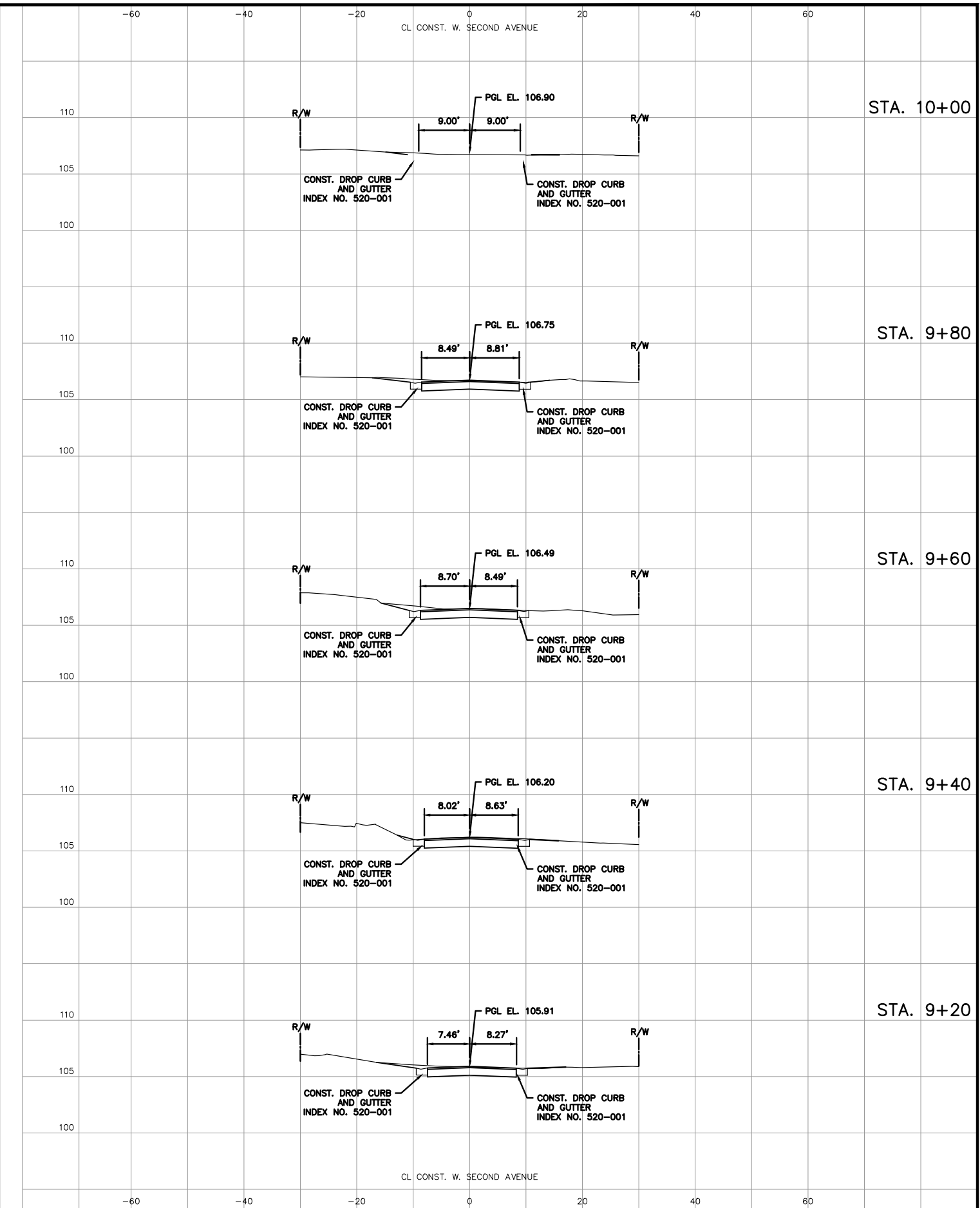
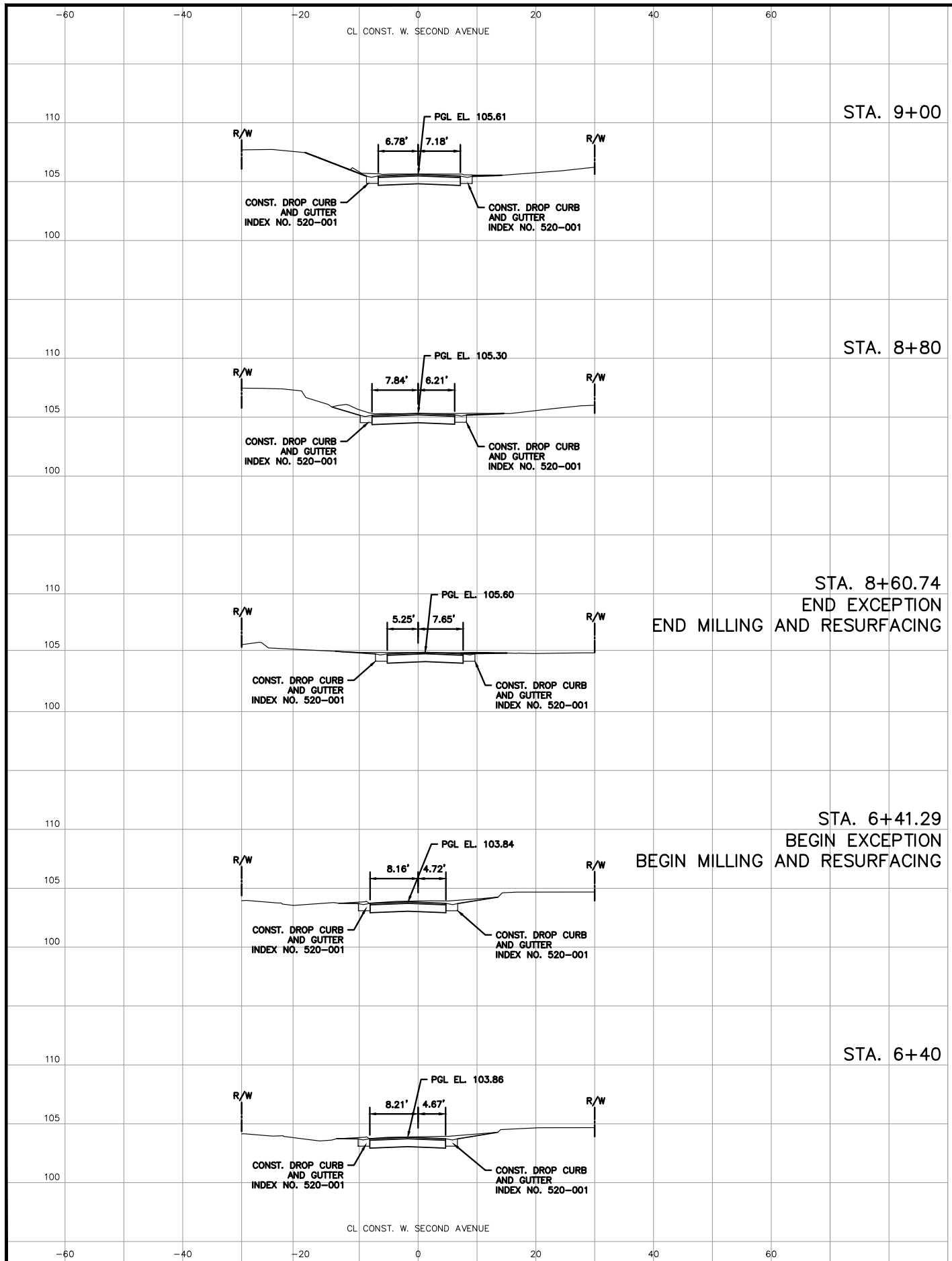
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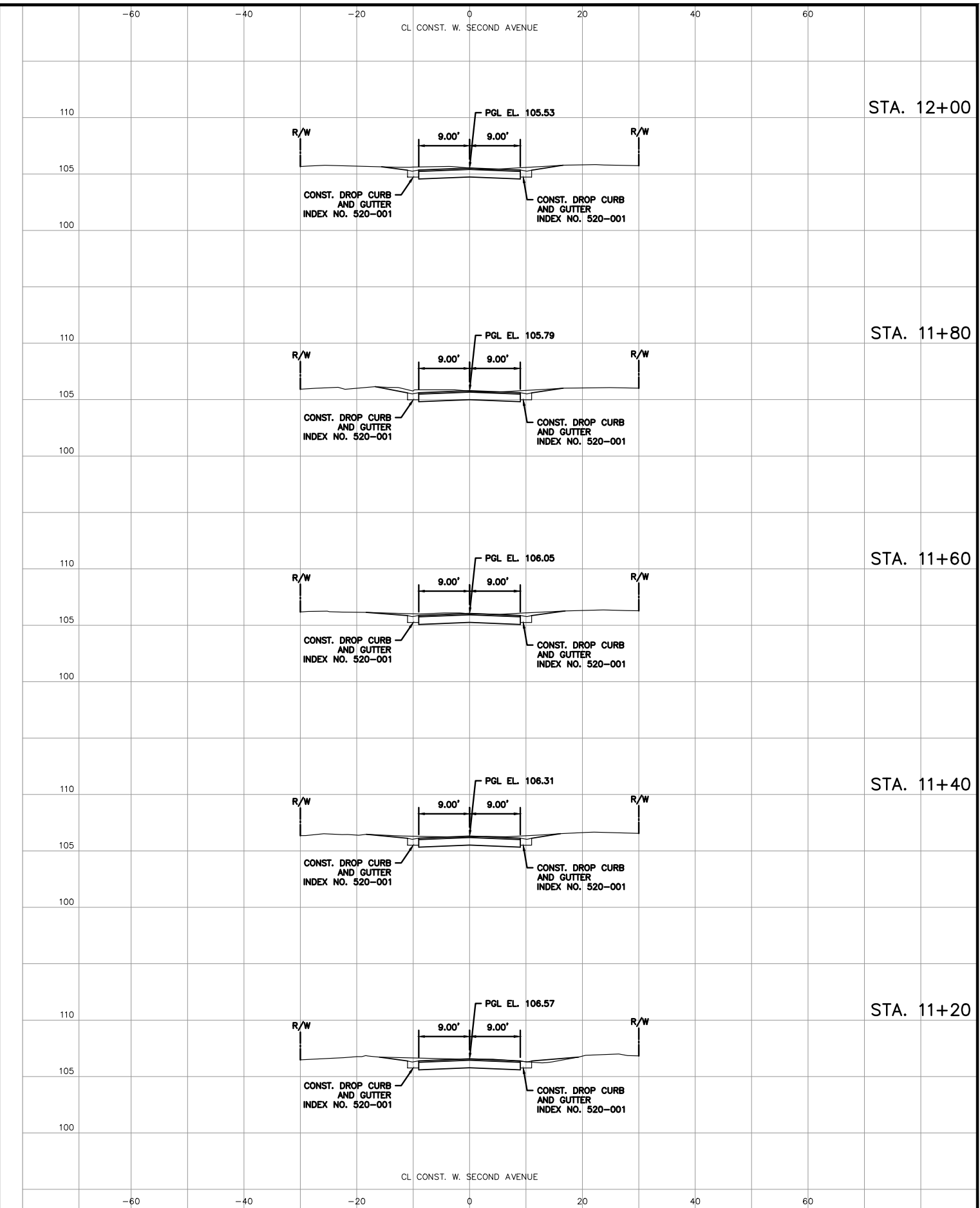
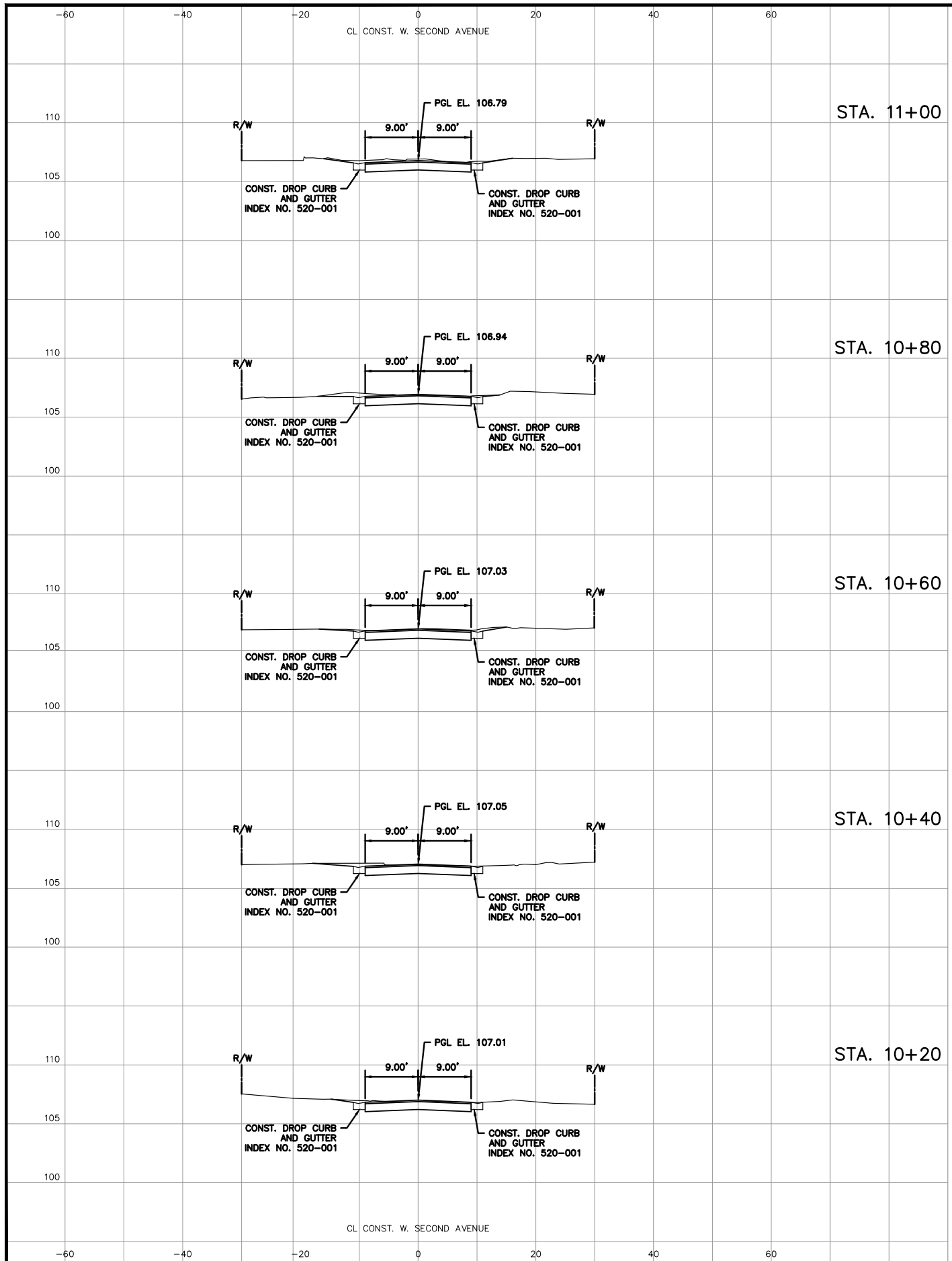


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**CROSS-SECTIONS
 W. SECOND AVENUE**

DRWG. SHEET 39 OF 86



REV.	DATE	DESCRIPTION	APP'D BY

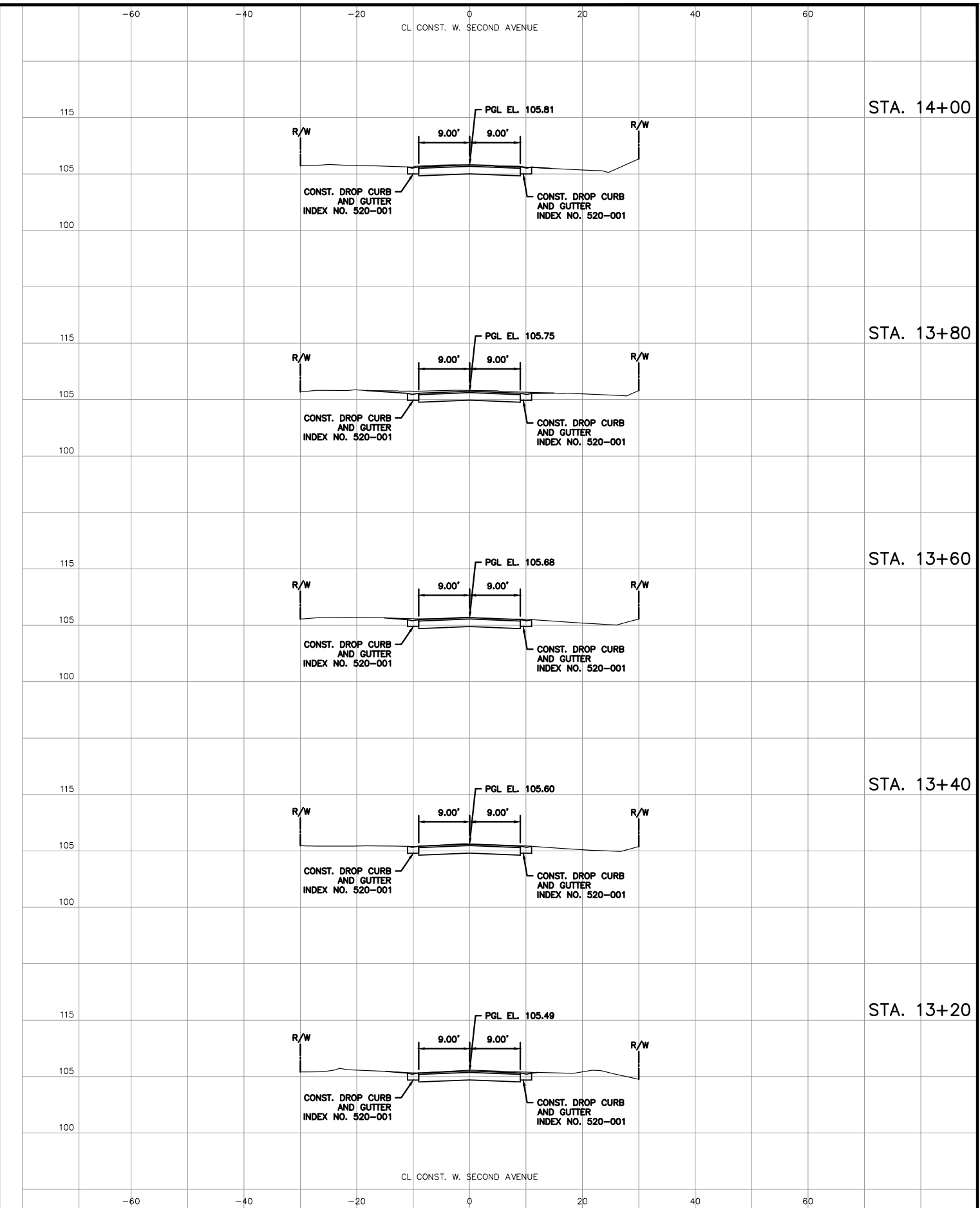
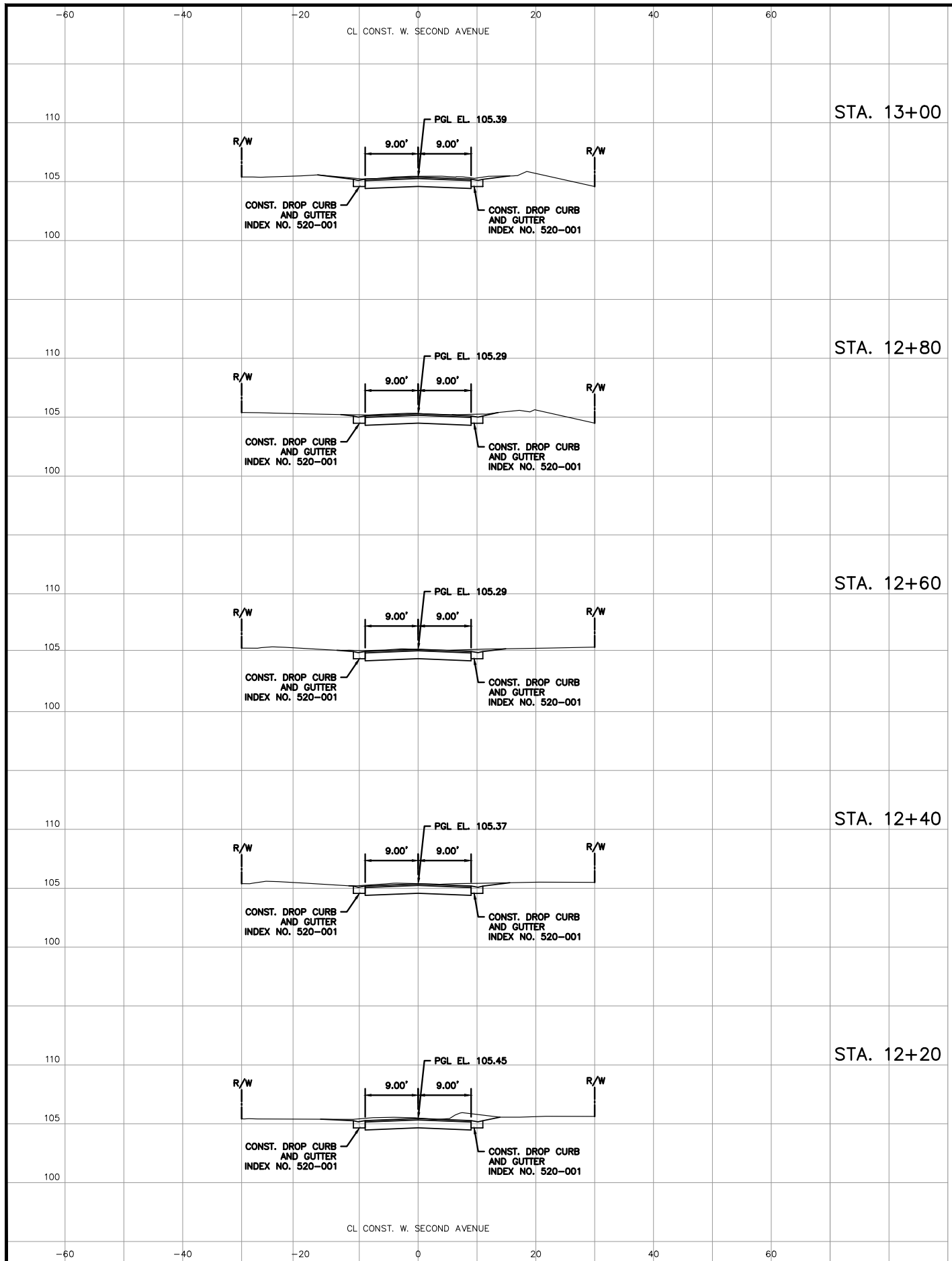
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JOB No. TOW-052.01.000	CROSS-SECTIONS W. SECOND AVENUE
FILE NAME: SEE LEFT MARGIN	
ARCHIVE DISC:	DRWG. SHEET 40 OF 86
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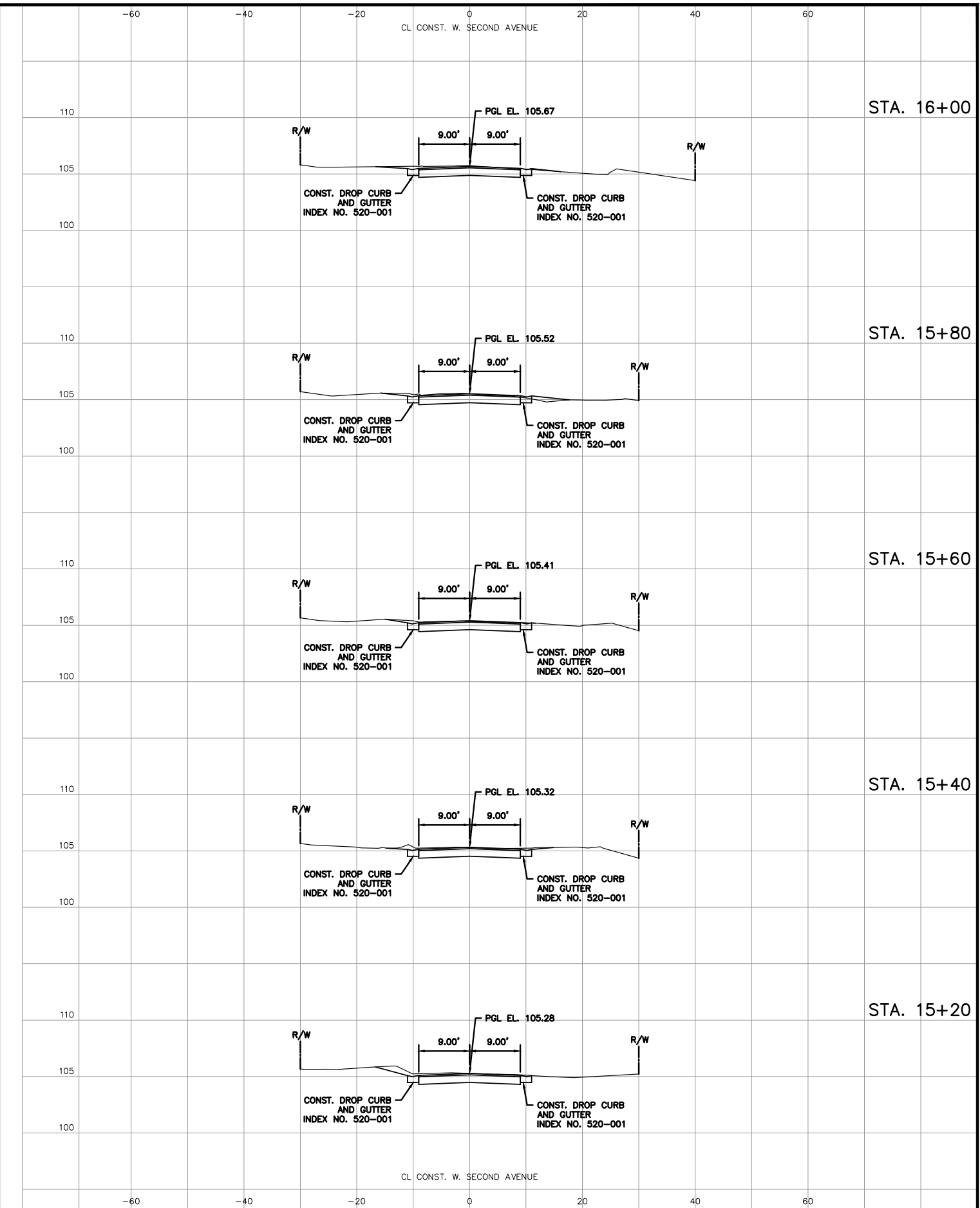
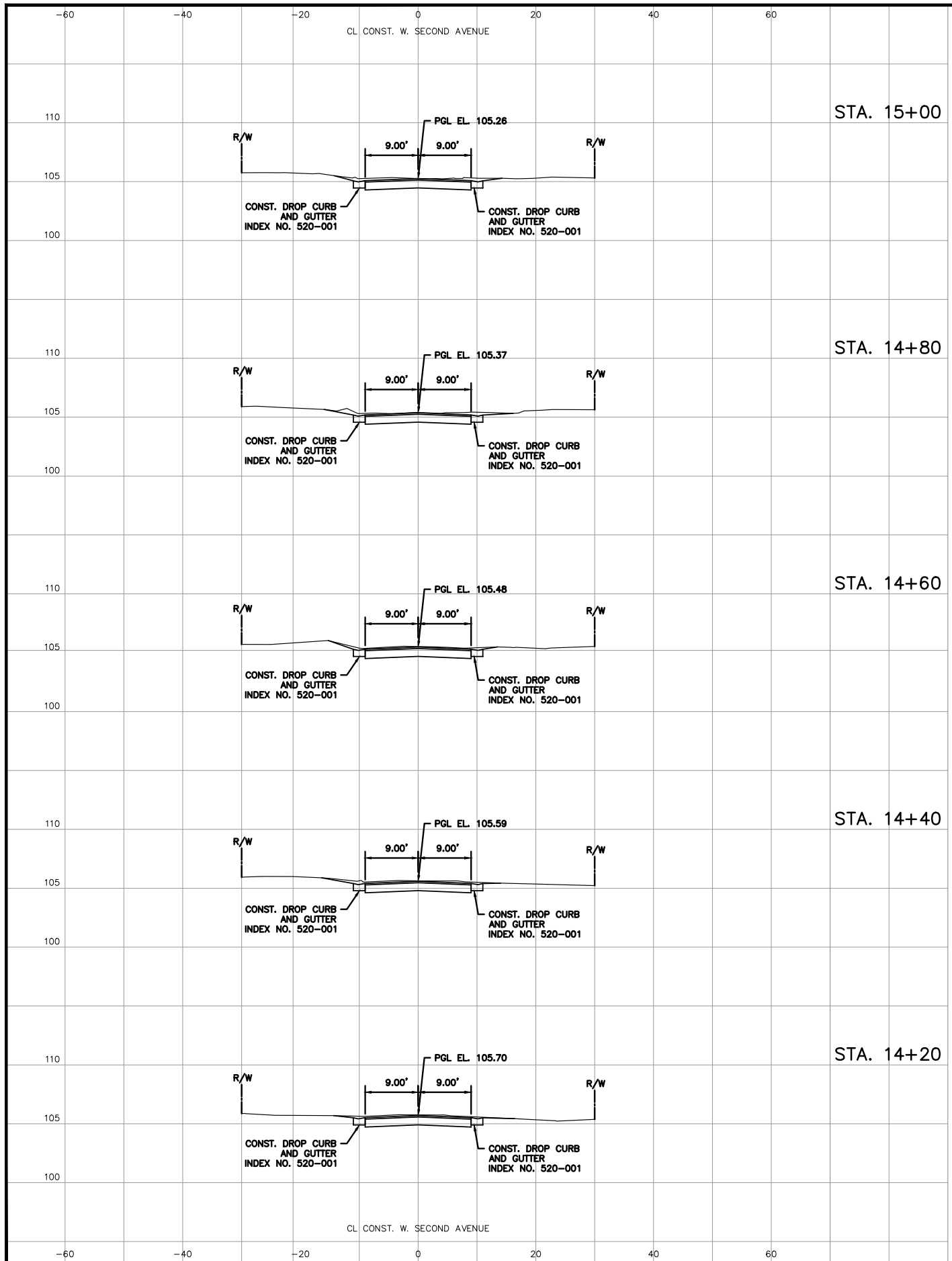


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**CROSS-SECTIONS
 W. SECOND AVENUE**

DRWG. SHEET 41 OF 86



REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF	DATE
CLIENT	
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PM/CM DM	
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407/493-9983

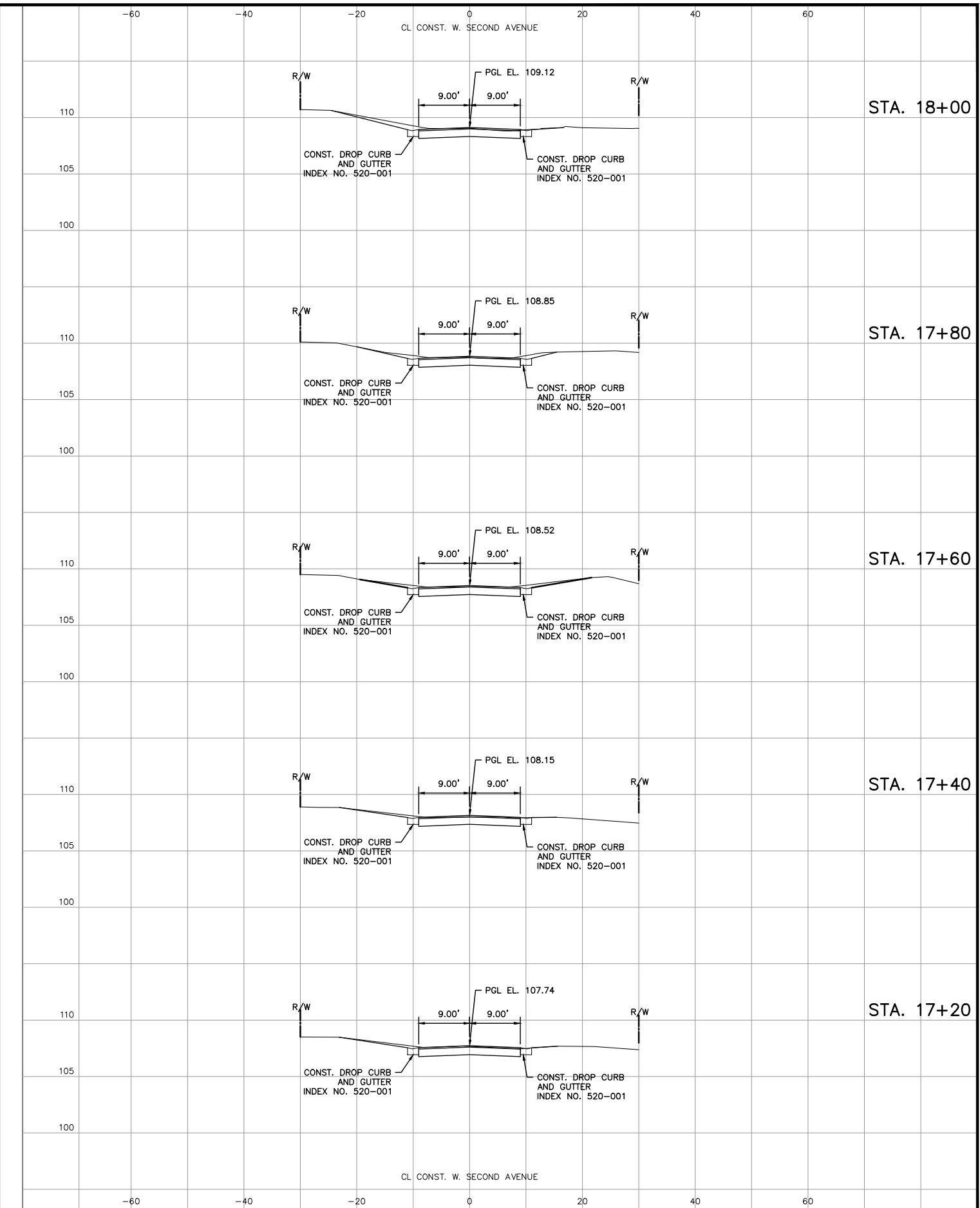
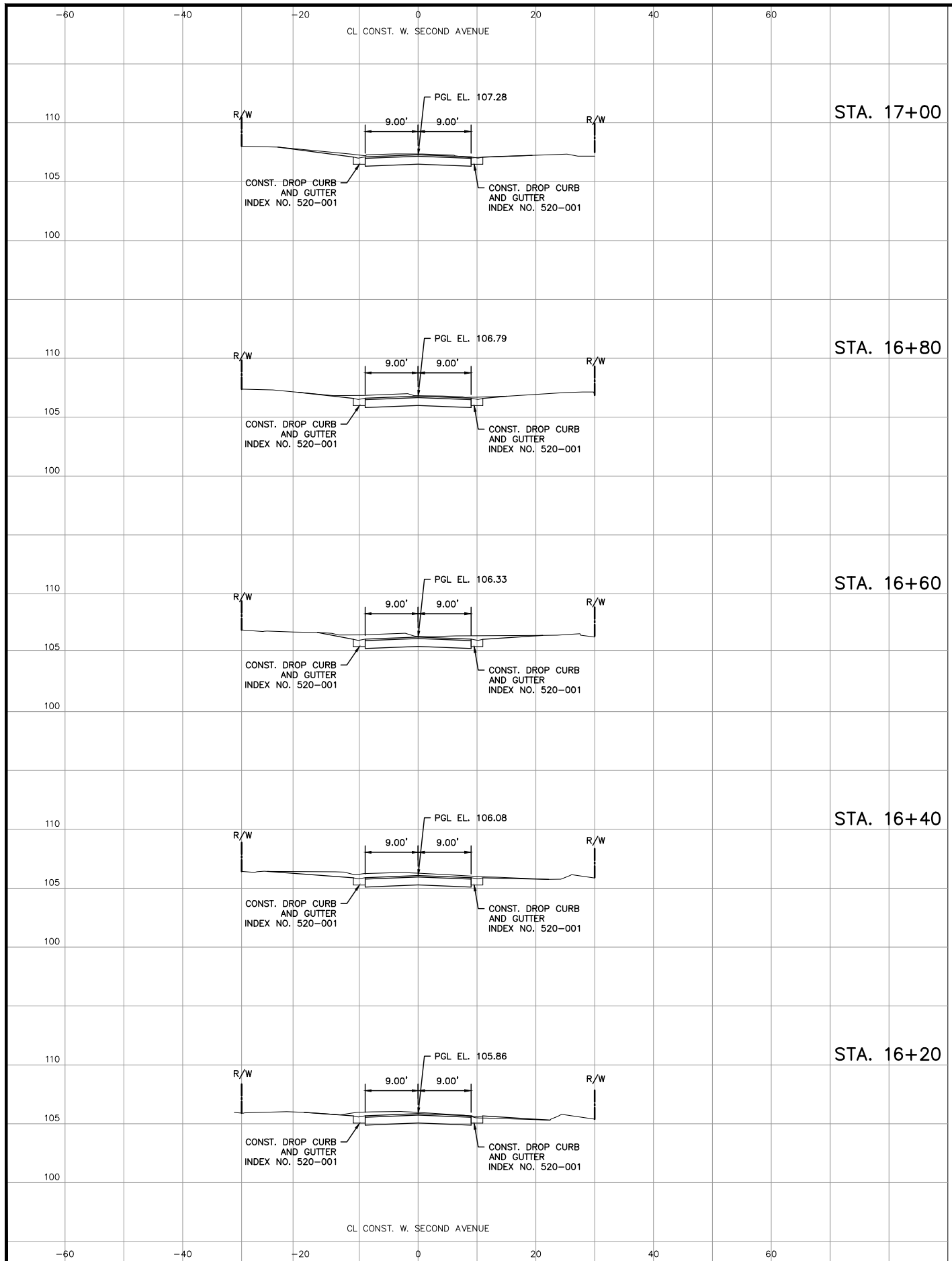


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**CROSS-SECTIONS
W. SECOND AVENUE**

DRWG. SHEET 42 OF 86



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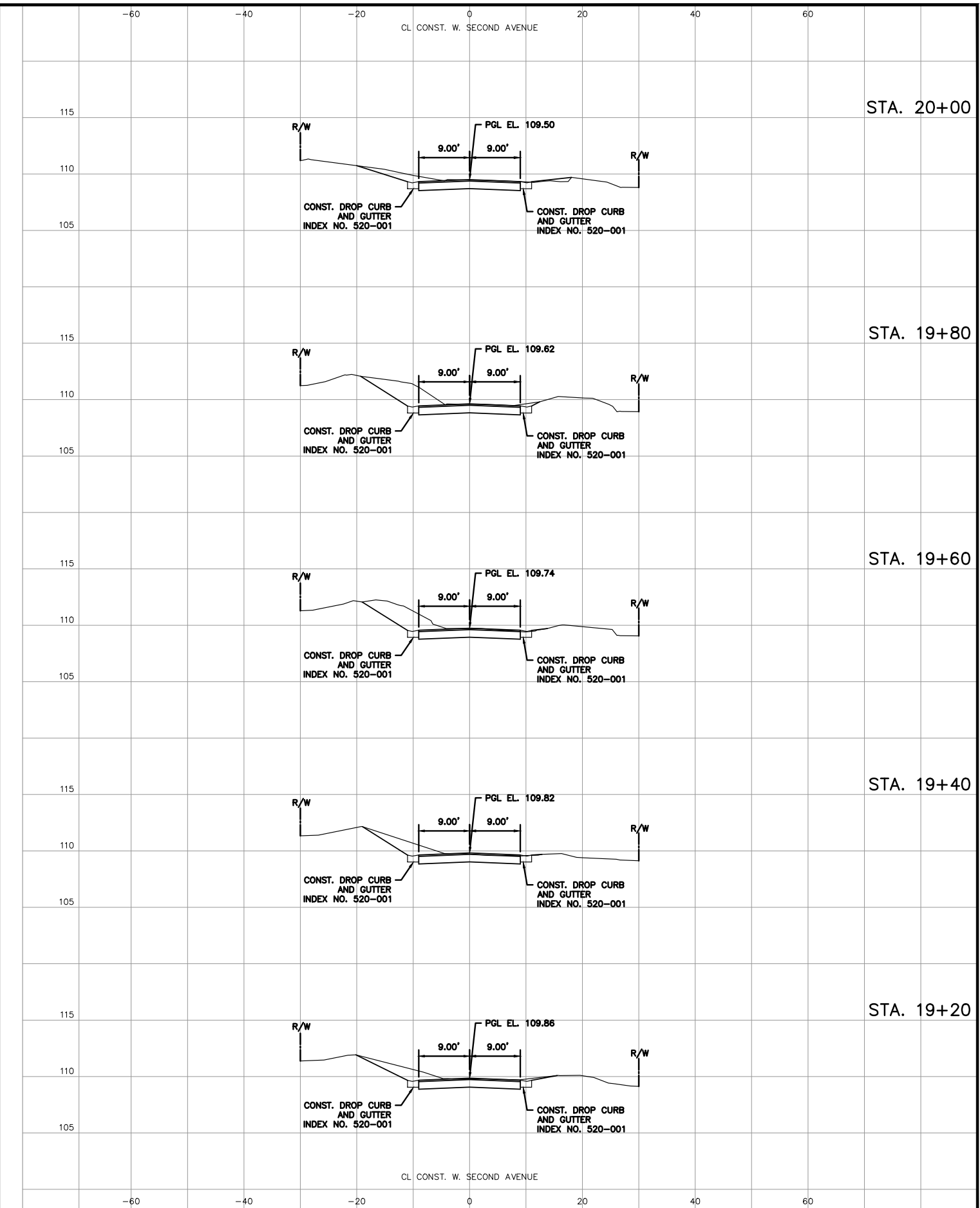
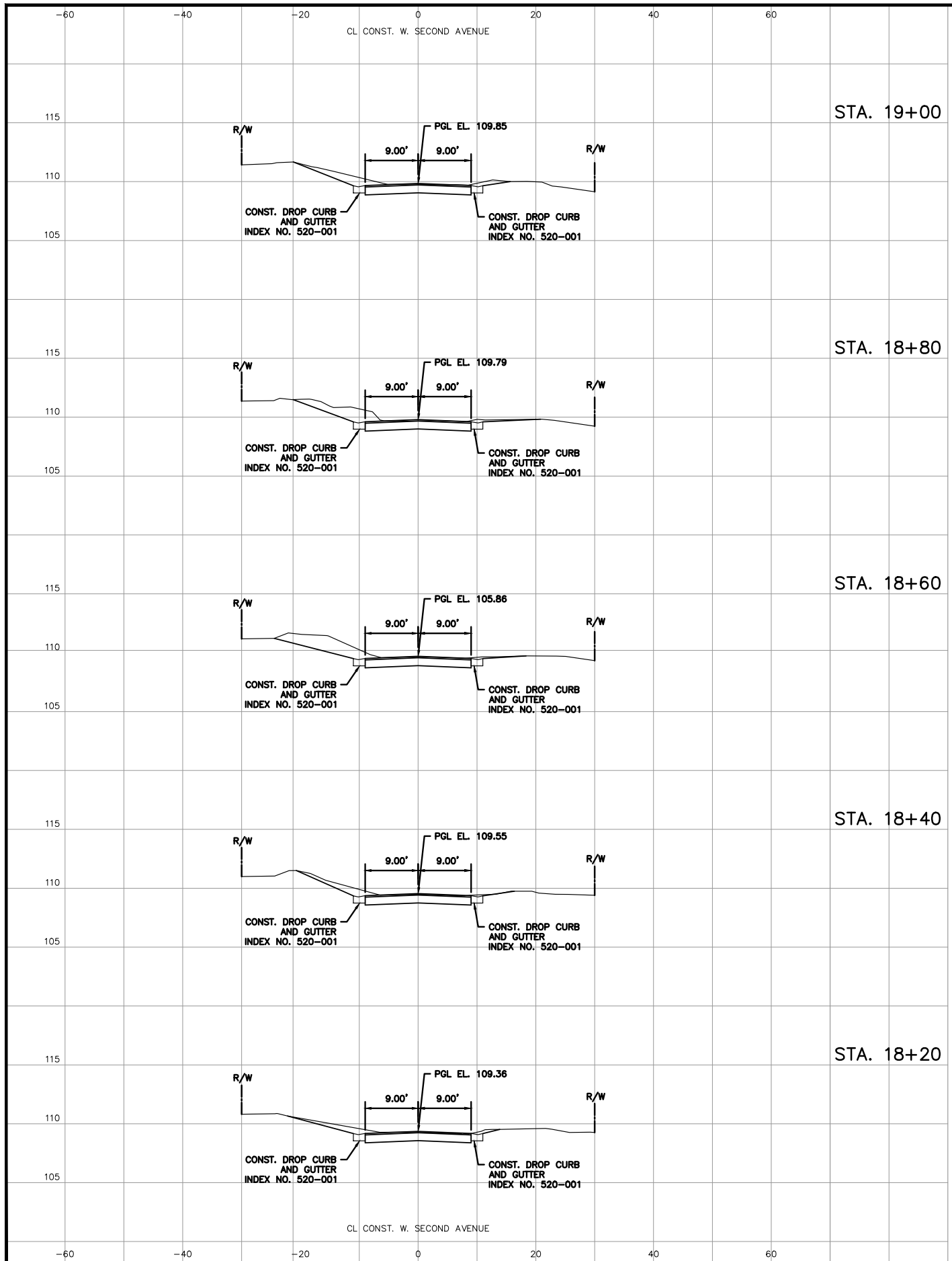


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 PUBLIC WORKS DEPARTMENT
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JOB No. TOW-052.01.000
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 VERT. = 1"=5'

**CROSS-SECTIONS
 W. SECOND AVENUE**

DRWG. SHEET 43 OF 86



REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF	DATE	FIELD:
CLIENT		PEC SURVEYING AND MAPPING, LLC
PM/CM BC		DRAWN BY: CADD
PM/CM DM		DESIGNED BY: MBG
PM		CHECKED BY: MBG
CM		DATE: NOVEMBER 2023
OTHERS		

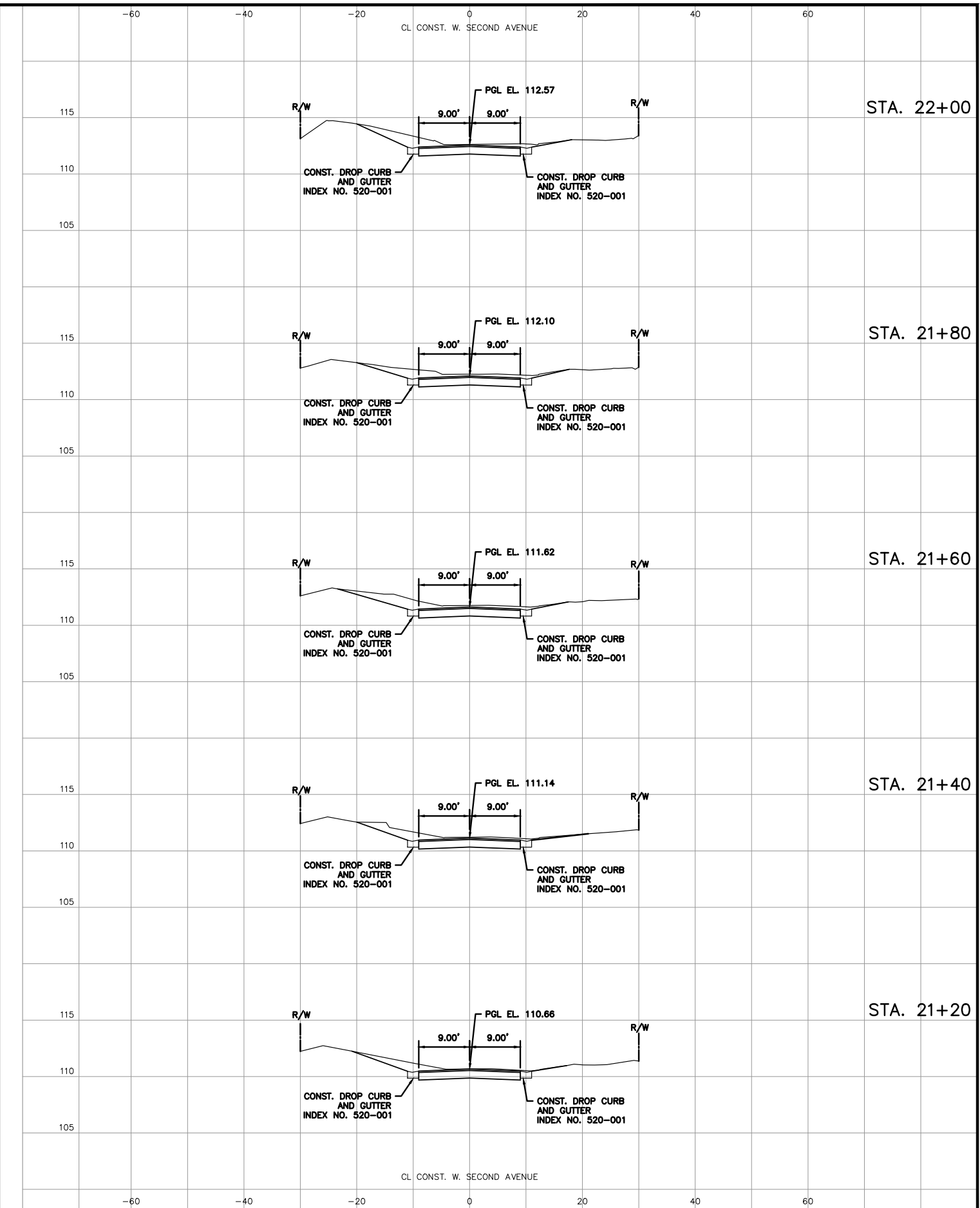
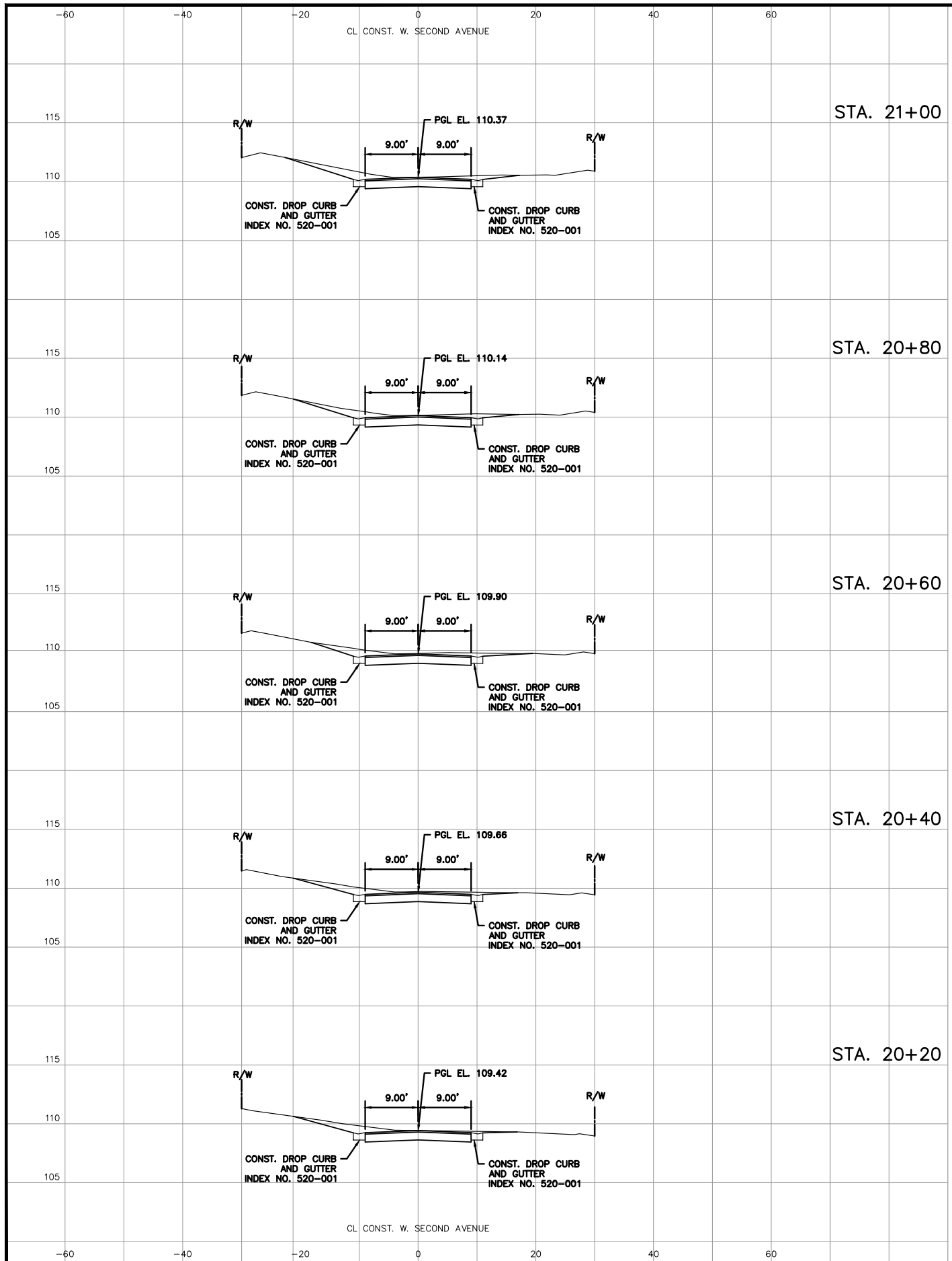
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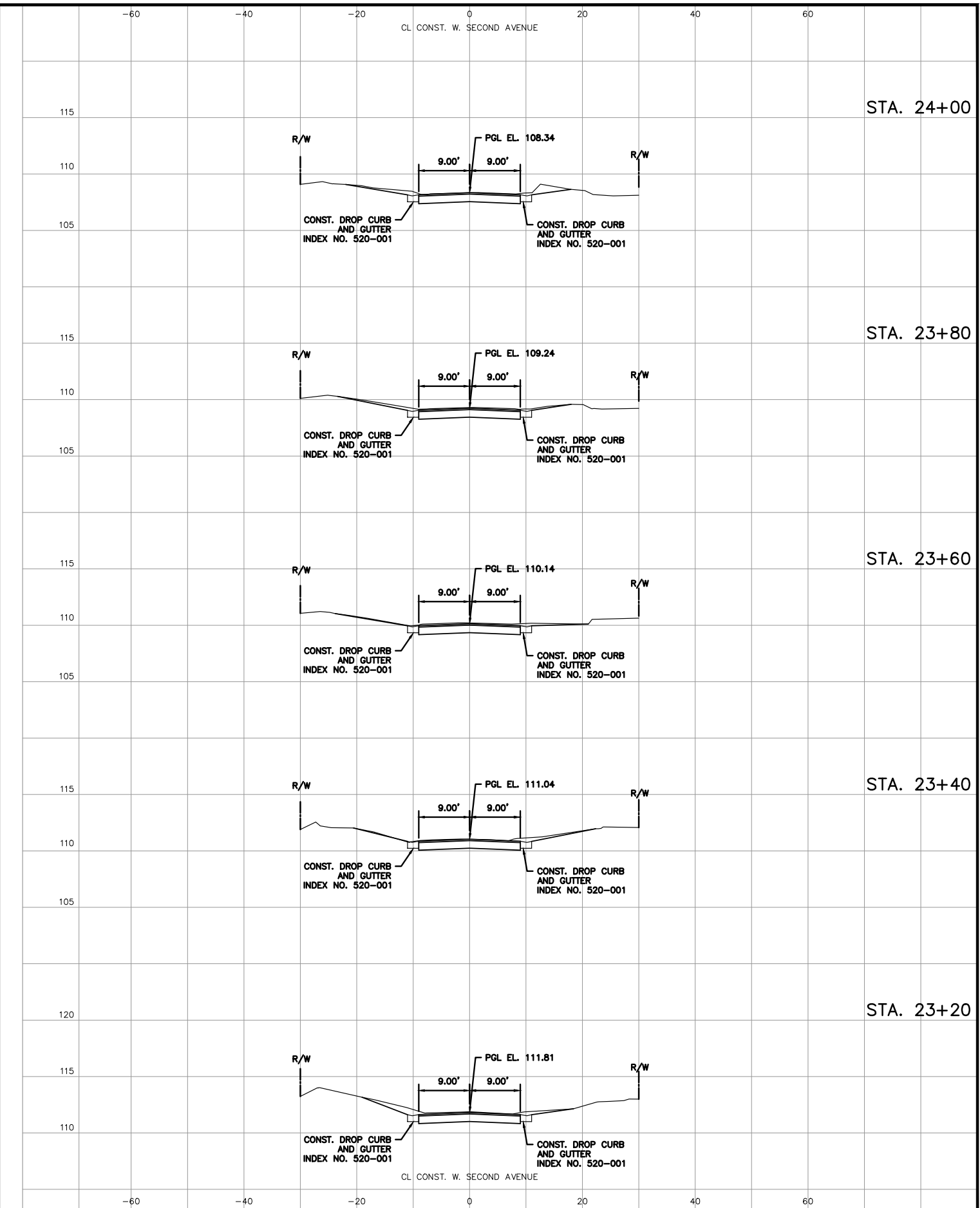
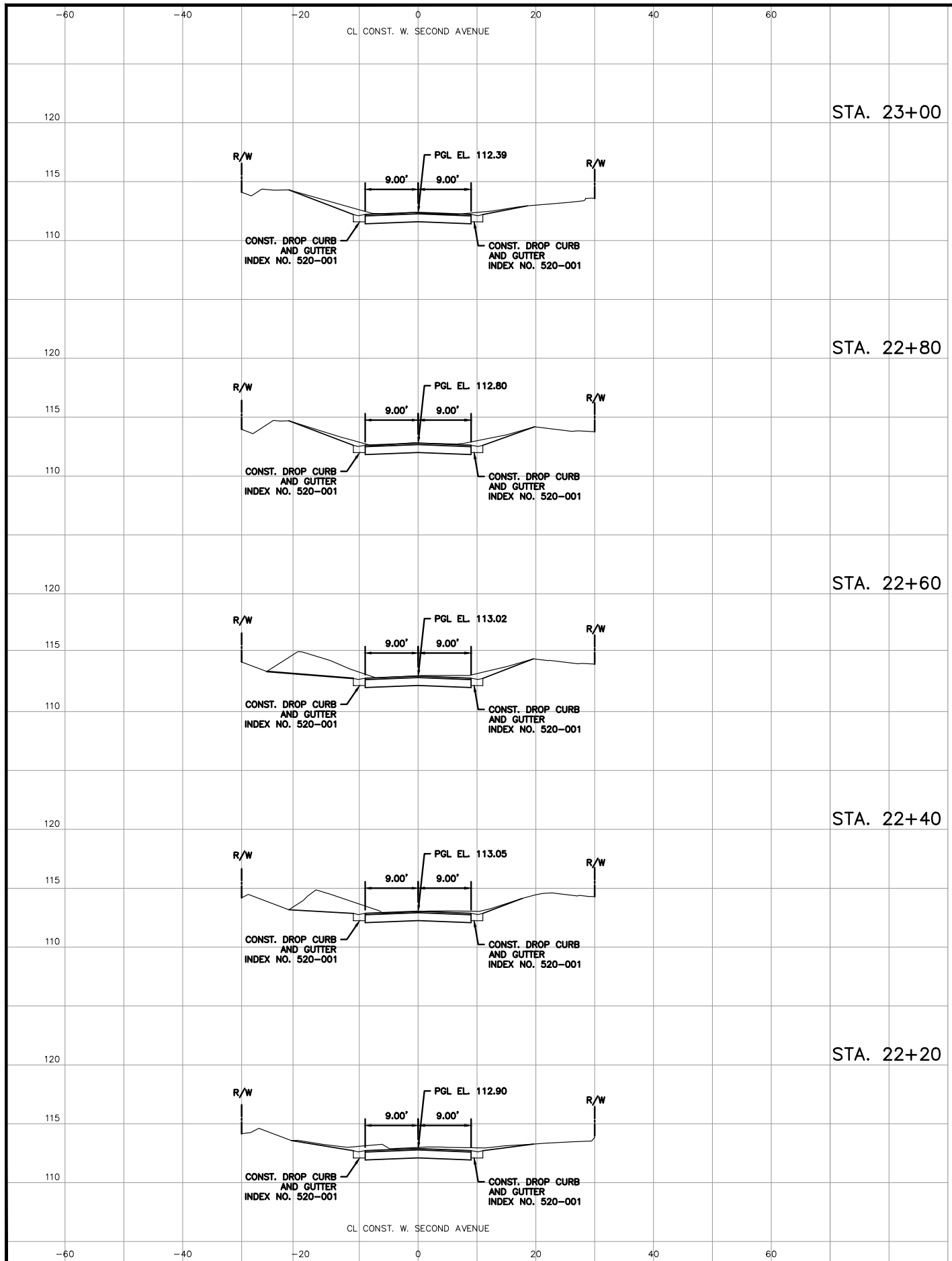
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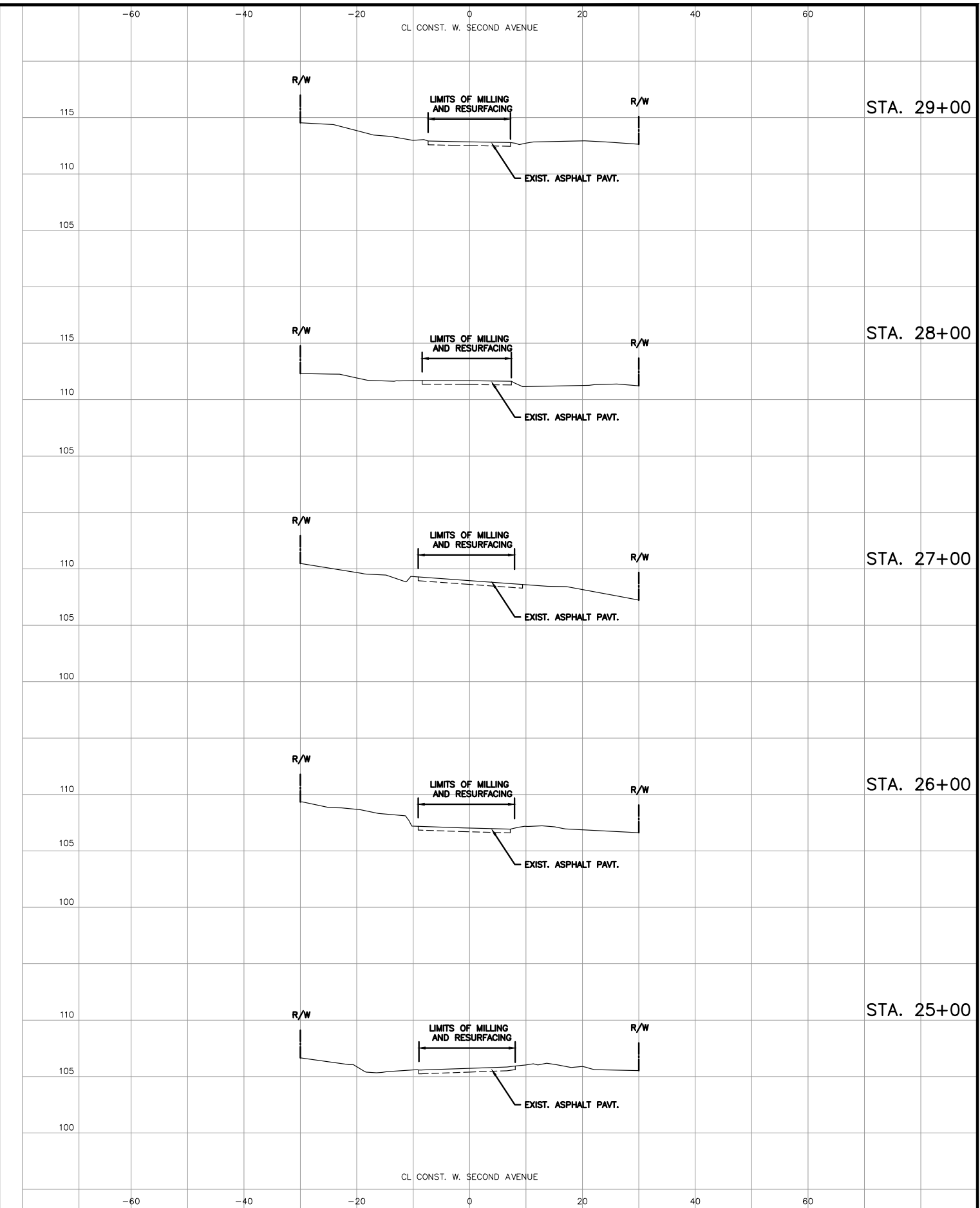
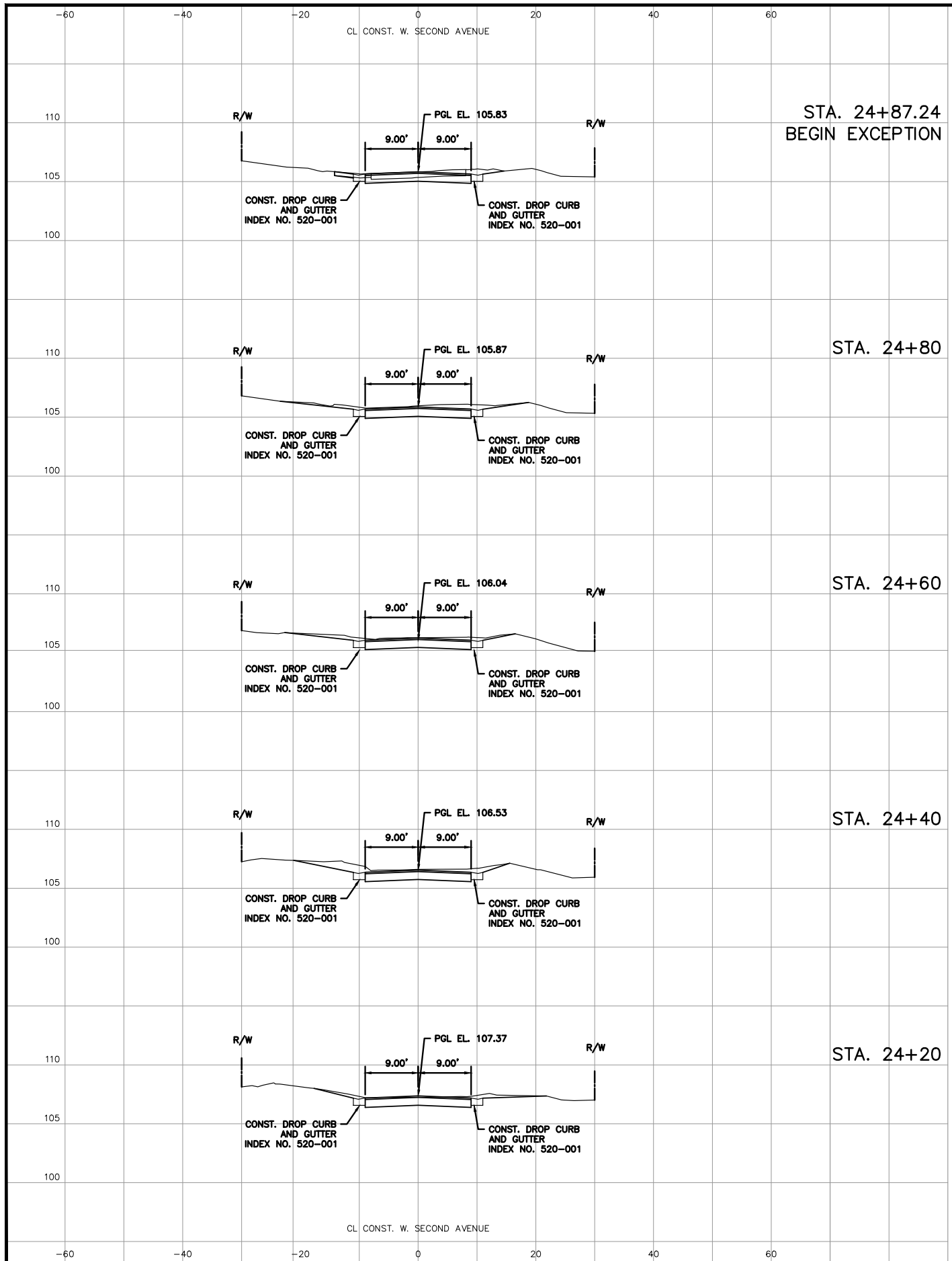


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**CROSS-SECTIONS
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DRWG. SHEET 46 OF 86



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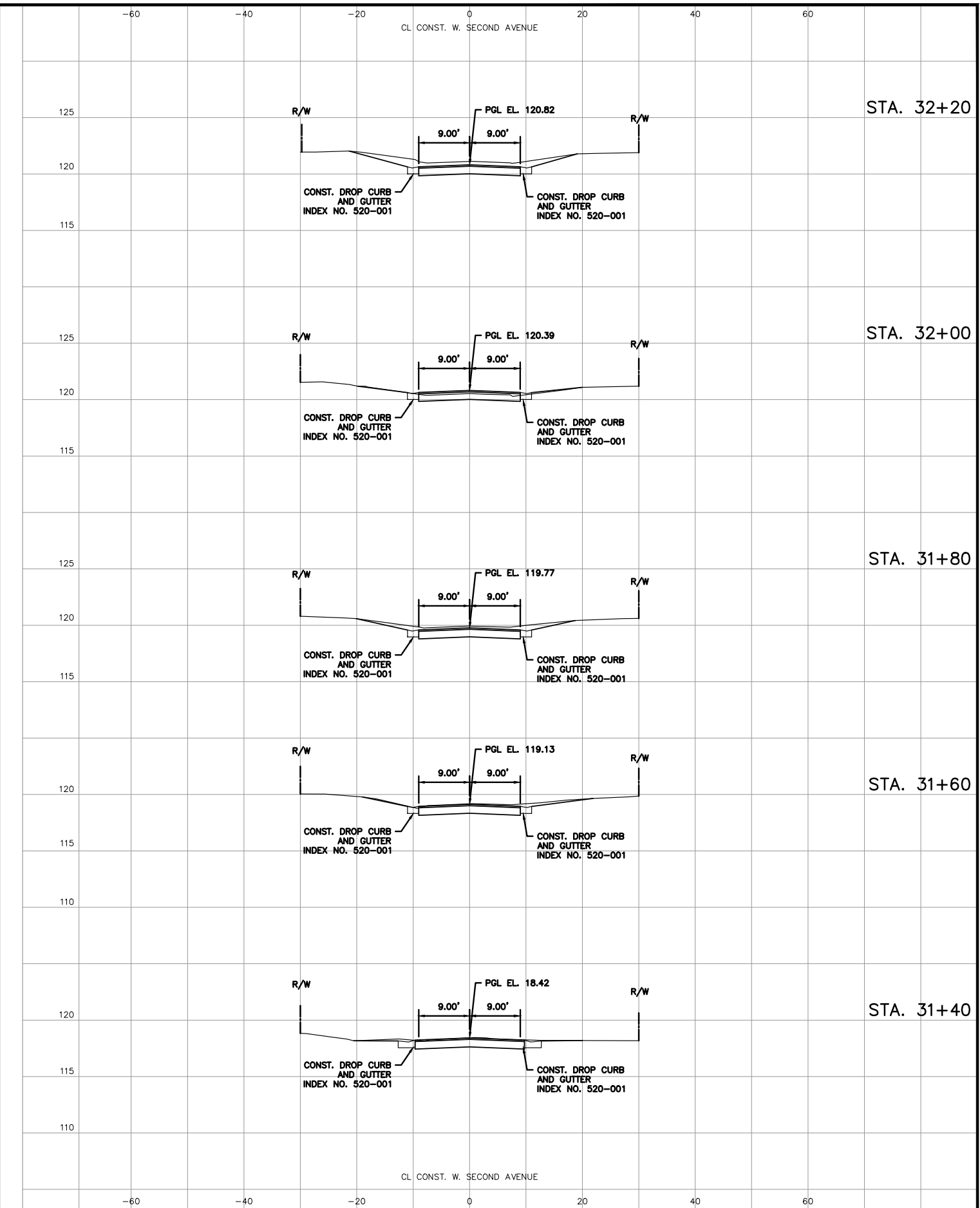
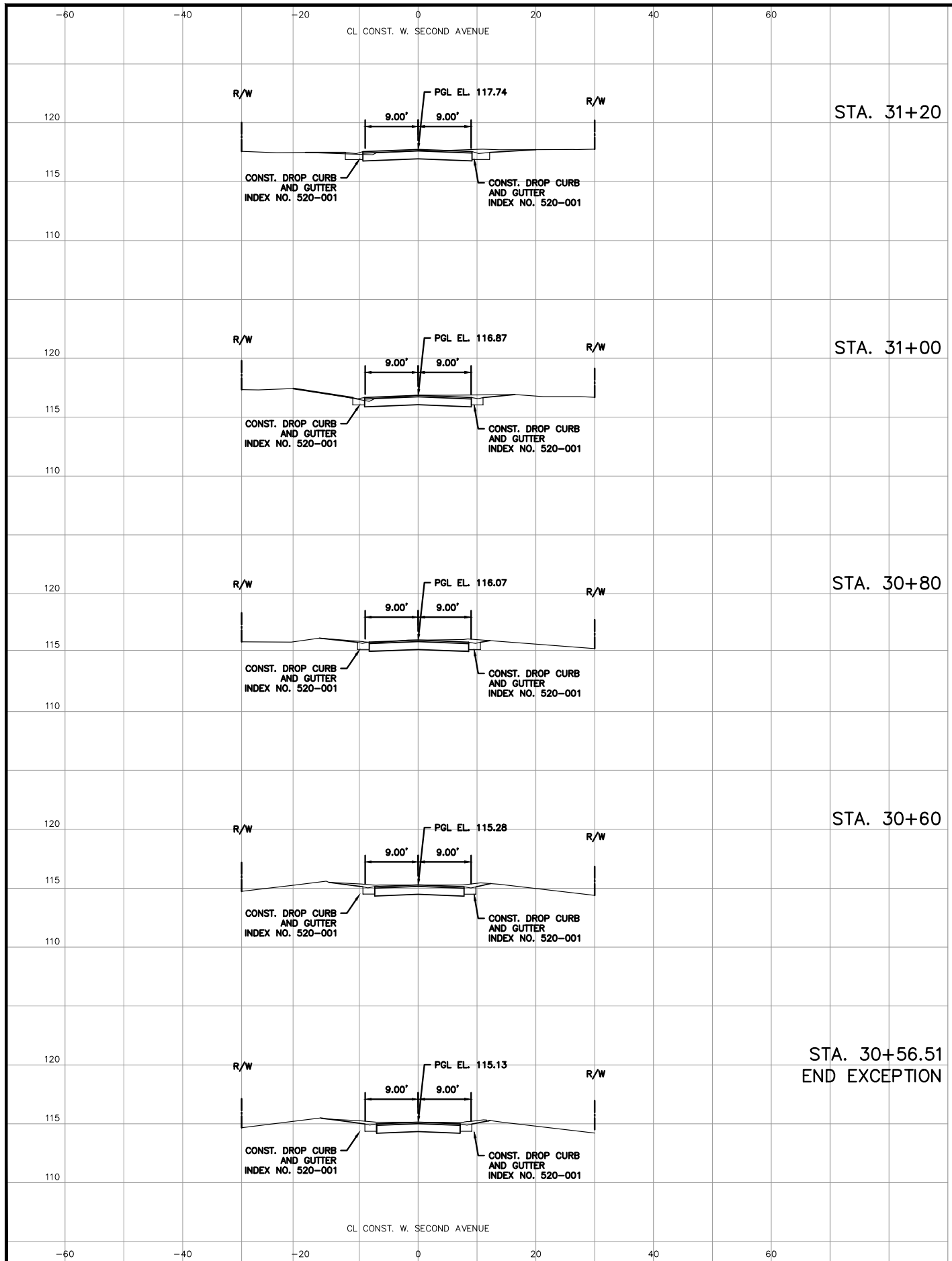
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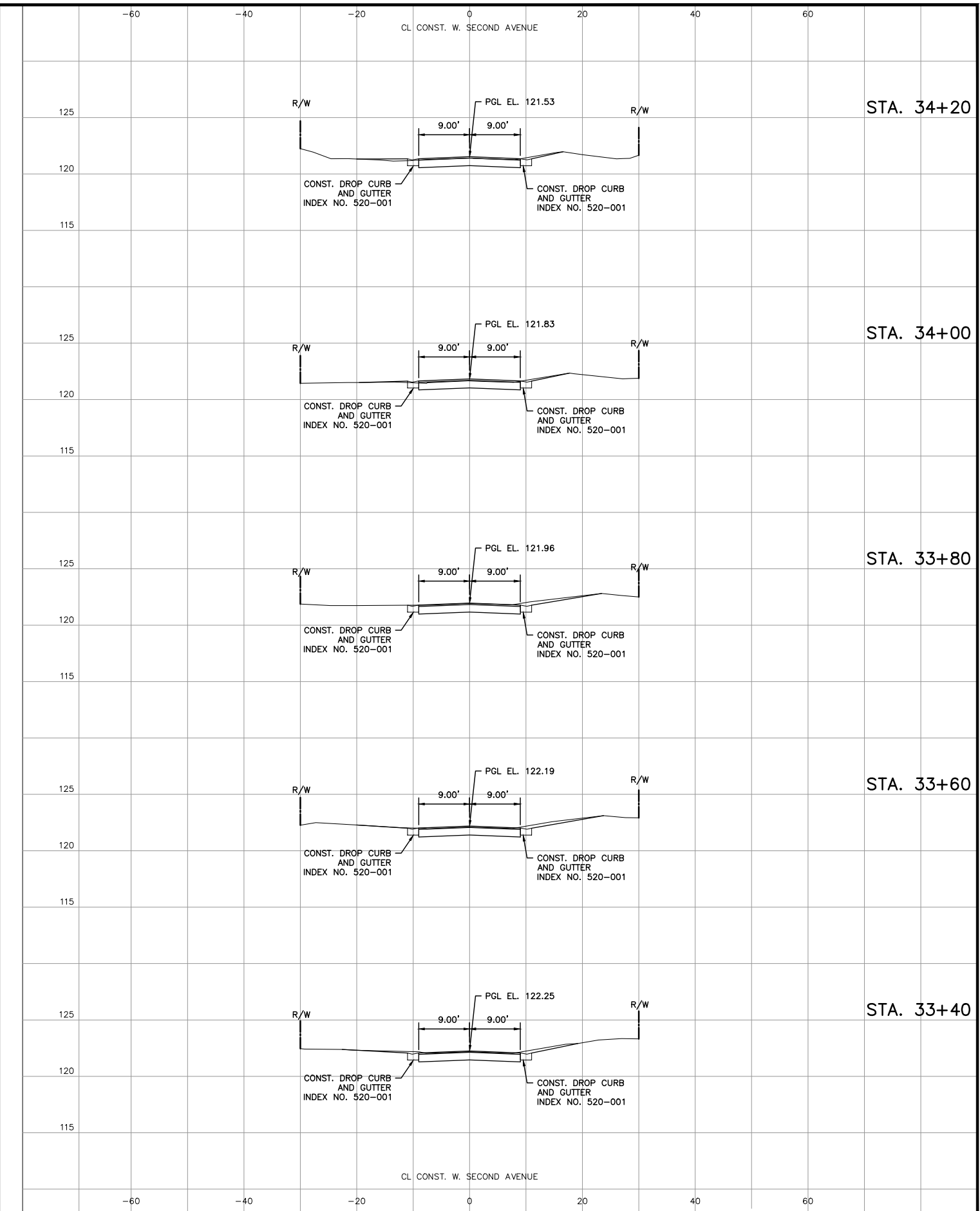
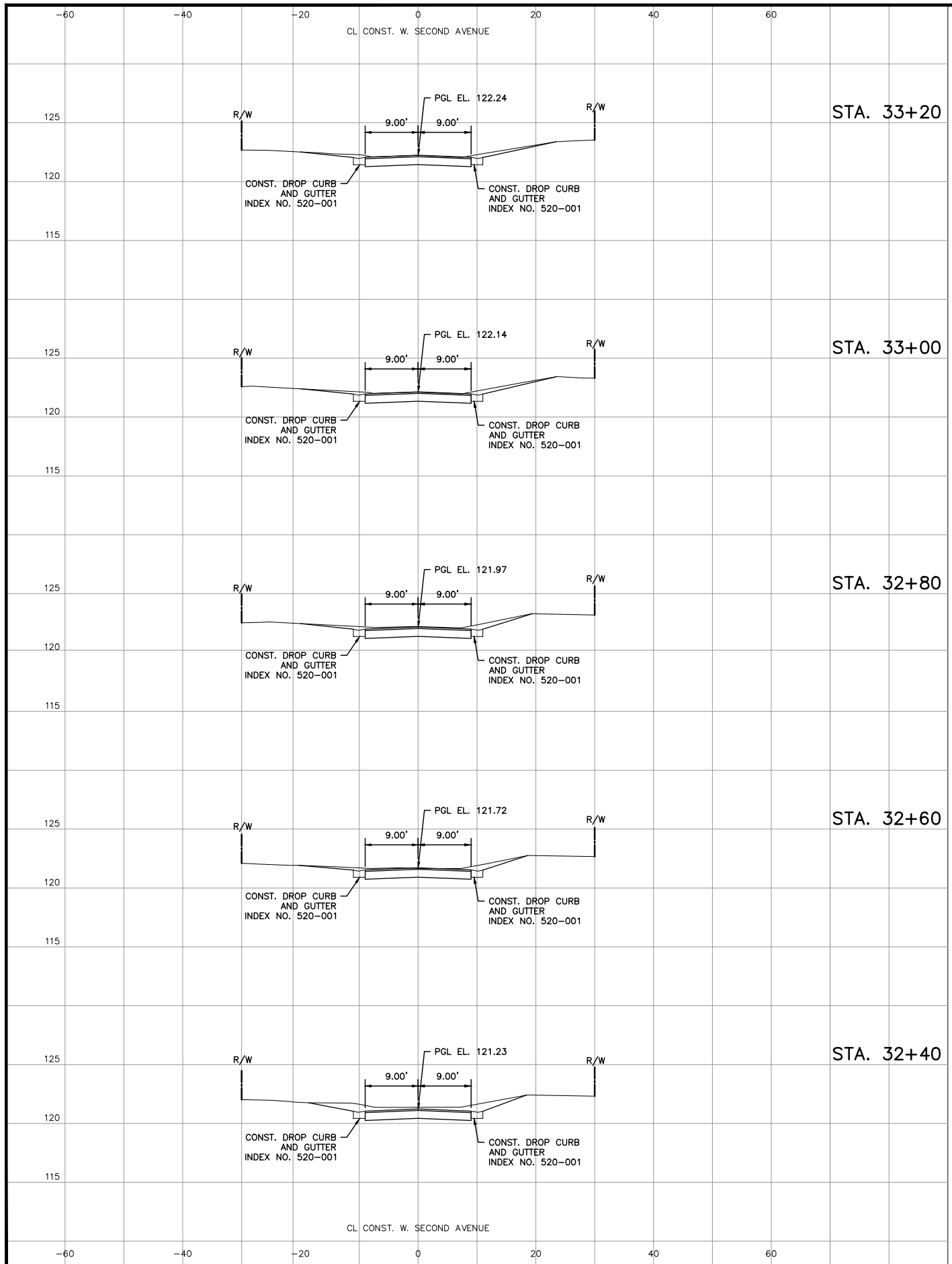
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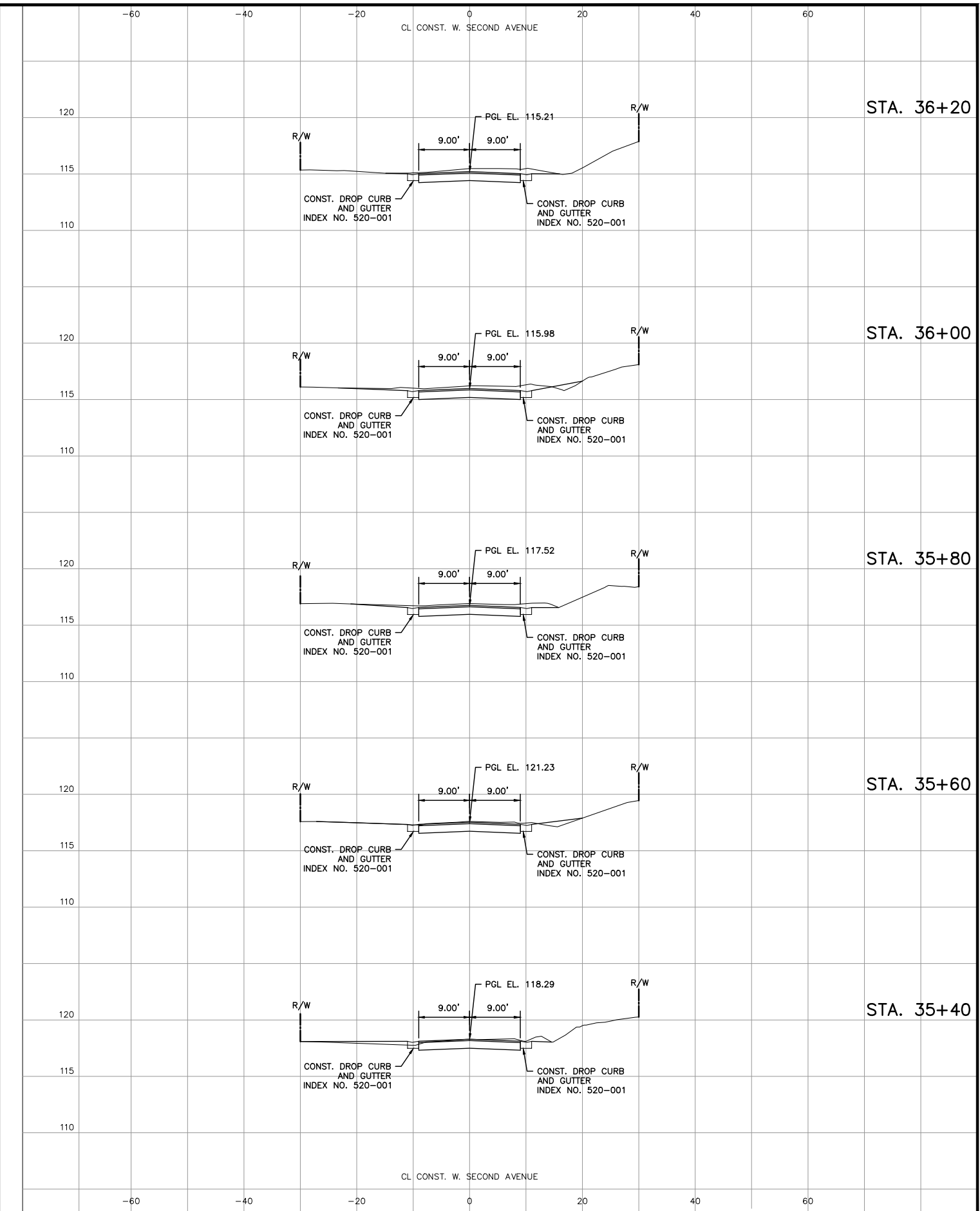
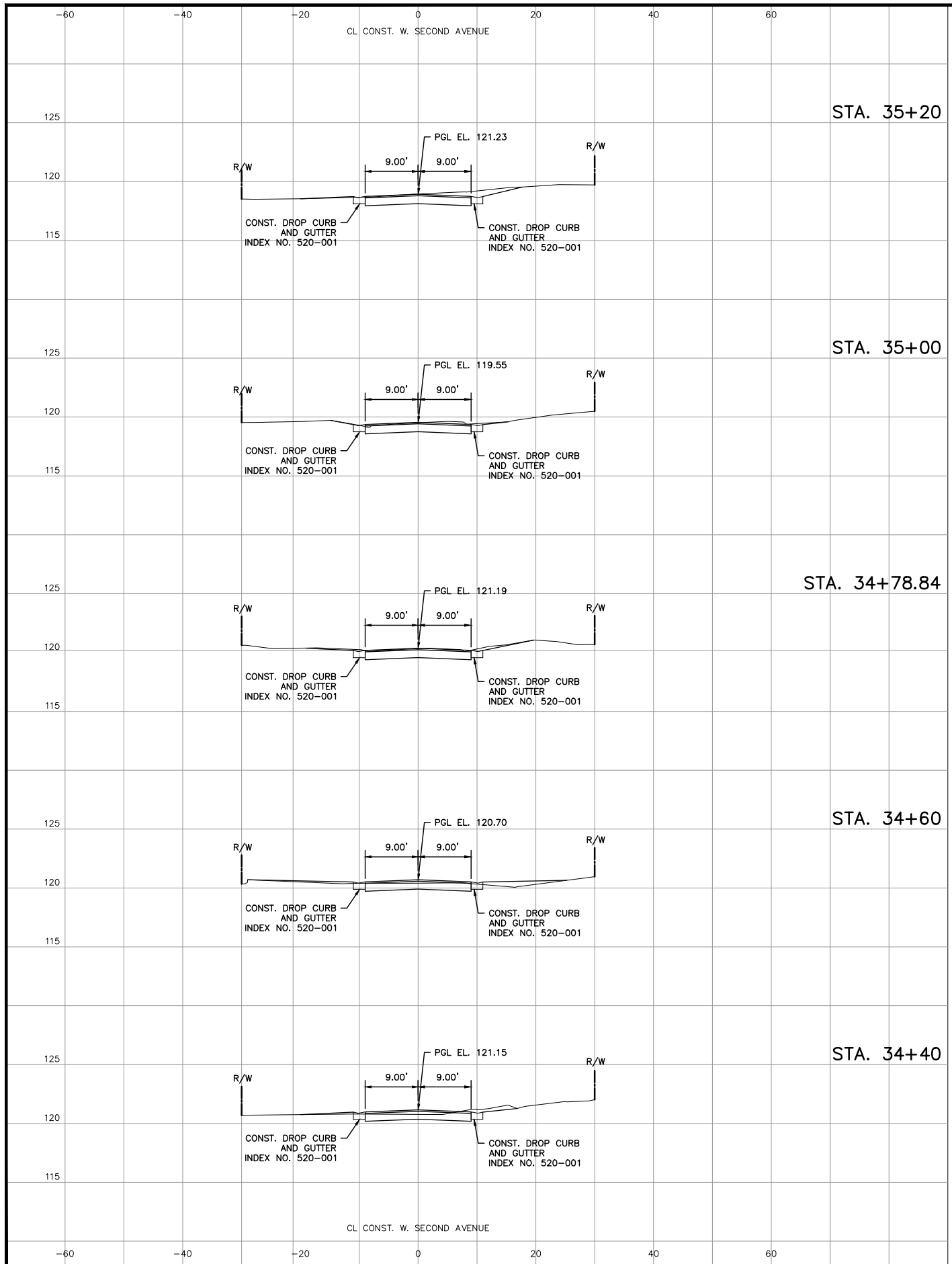


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**CROSS-SECTIONS
 W. SECOND AVENUE**

DRWG. SHEET 49 OF 86



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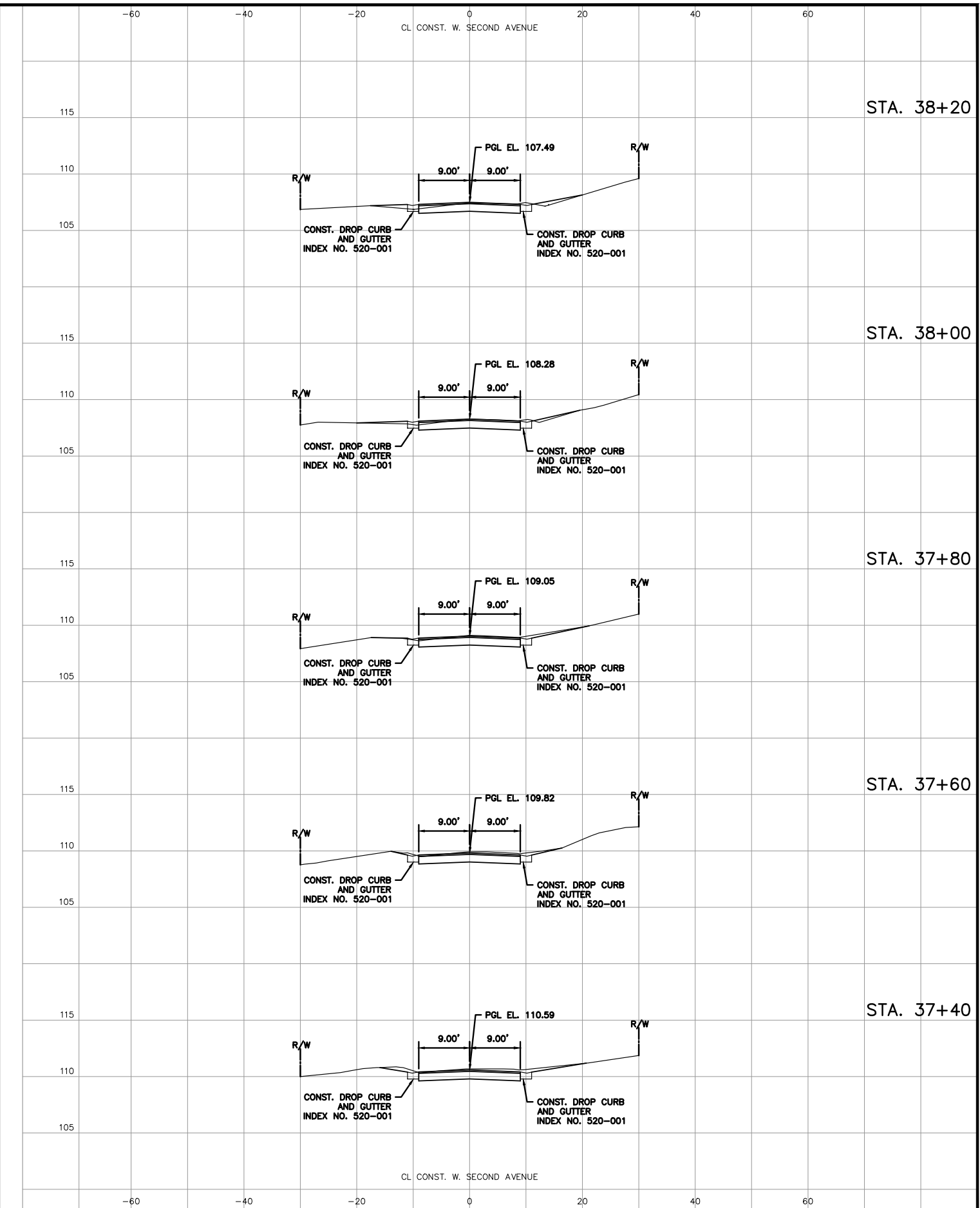
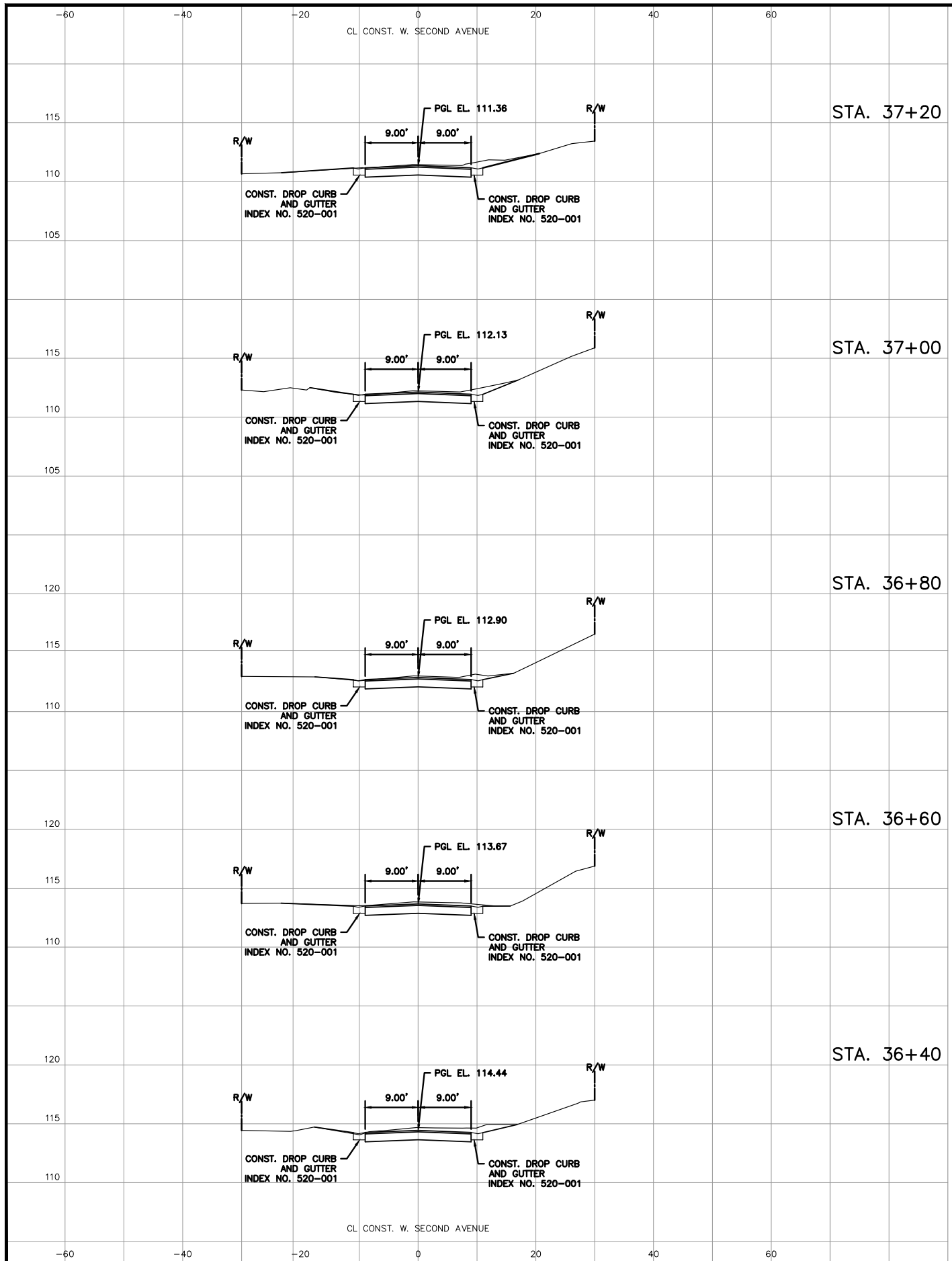
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CROSS-SECTIONS
W. SECOND AVENUE
 DRWG. SHEET 50 OF 86



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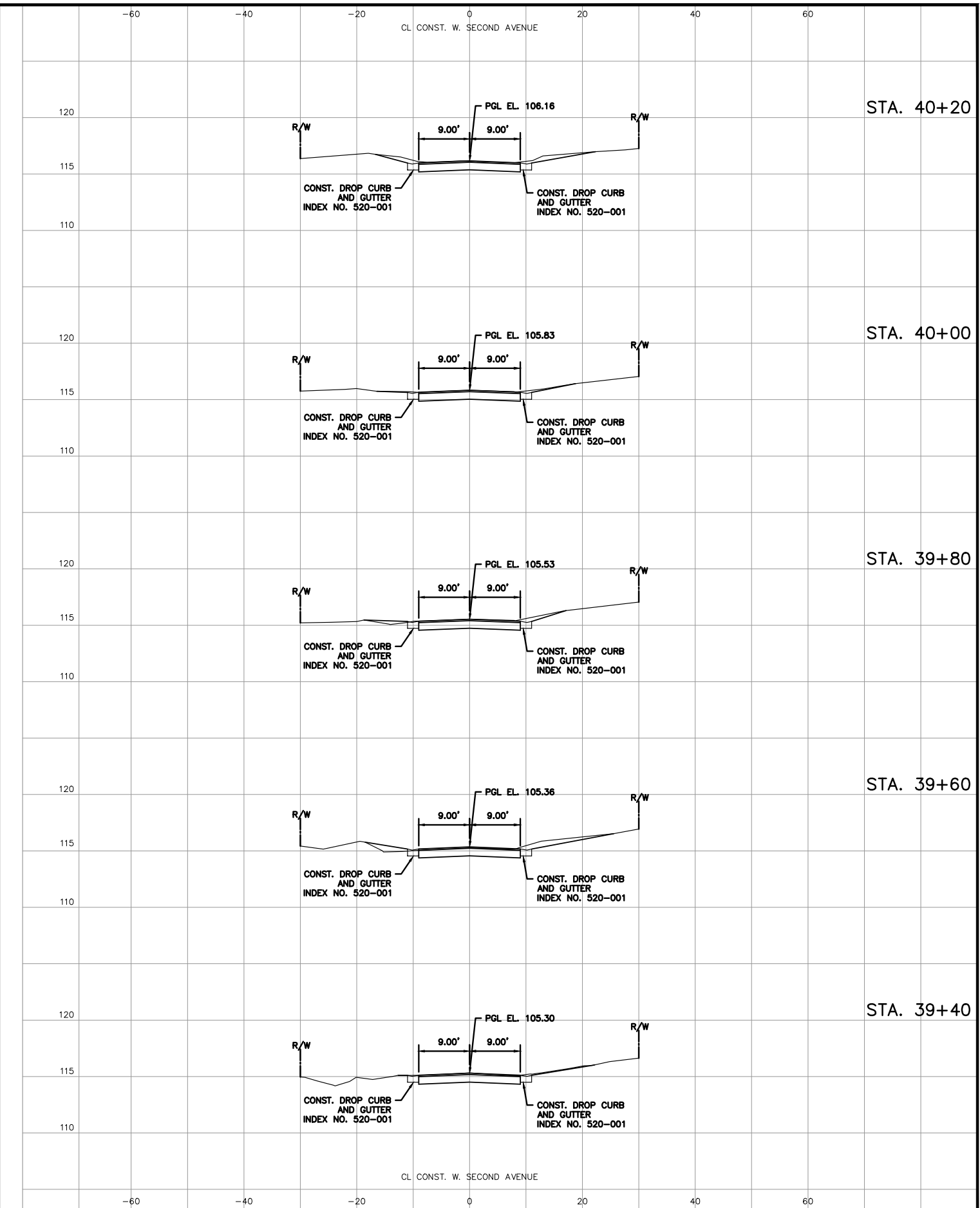
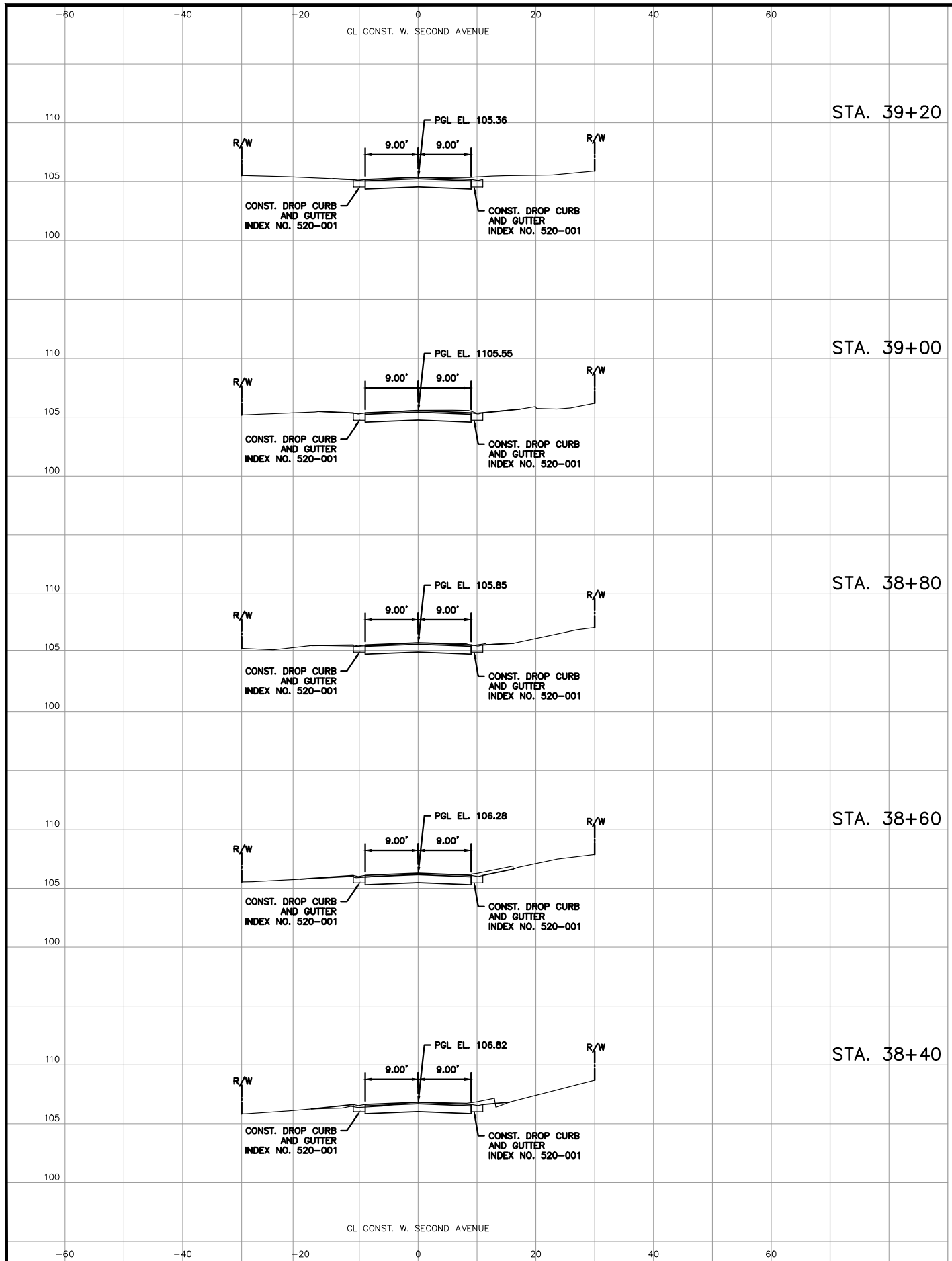


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**CROSS-SECTIONS
 W. SECOND AVENUE**

DRWG. SHEET 51 OF 86



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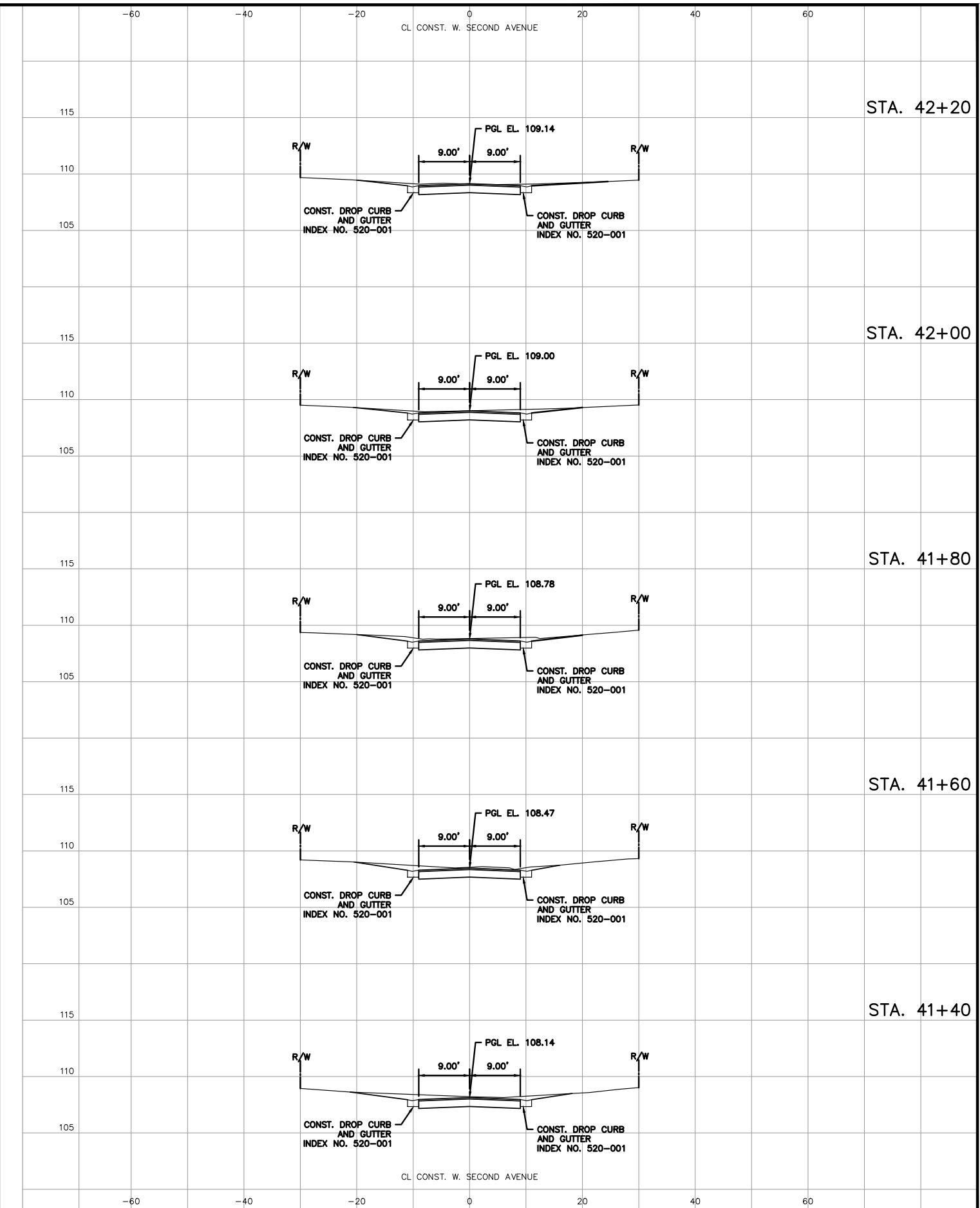
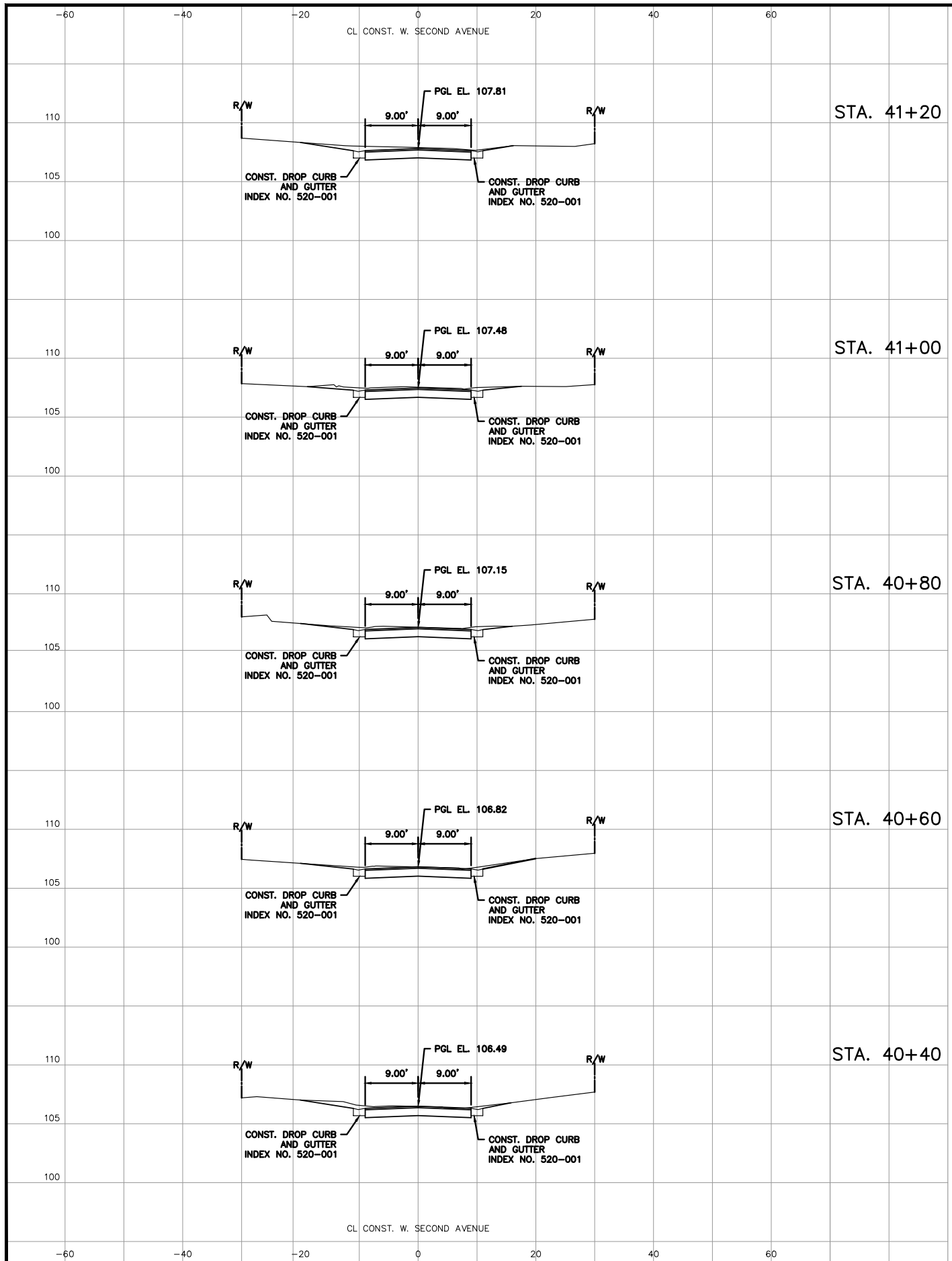
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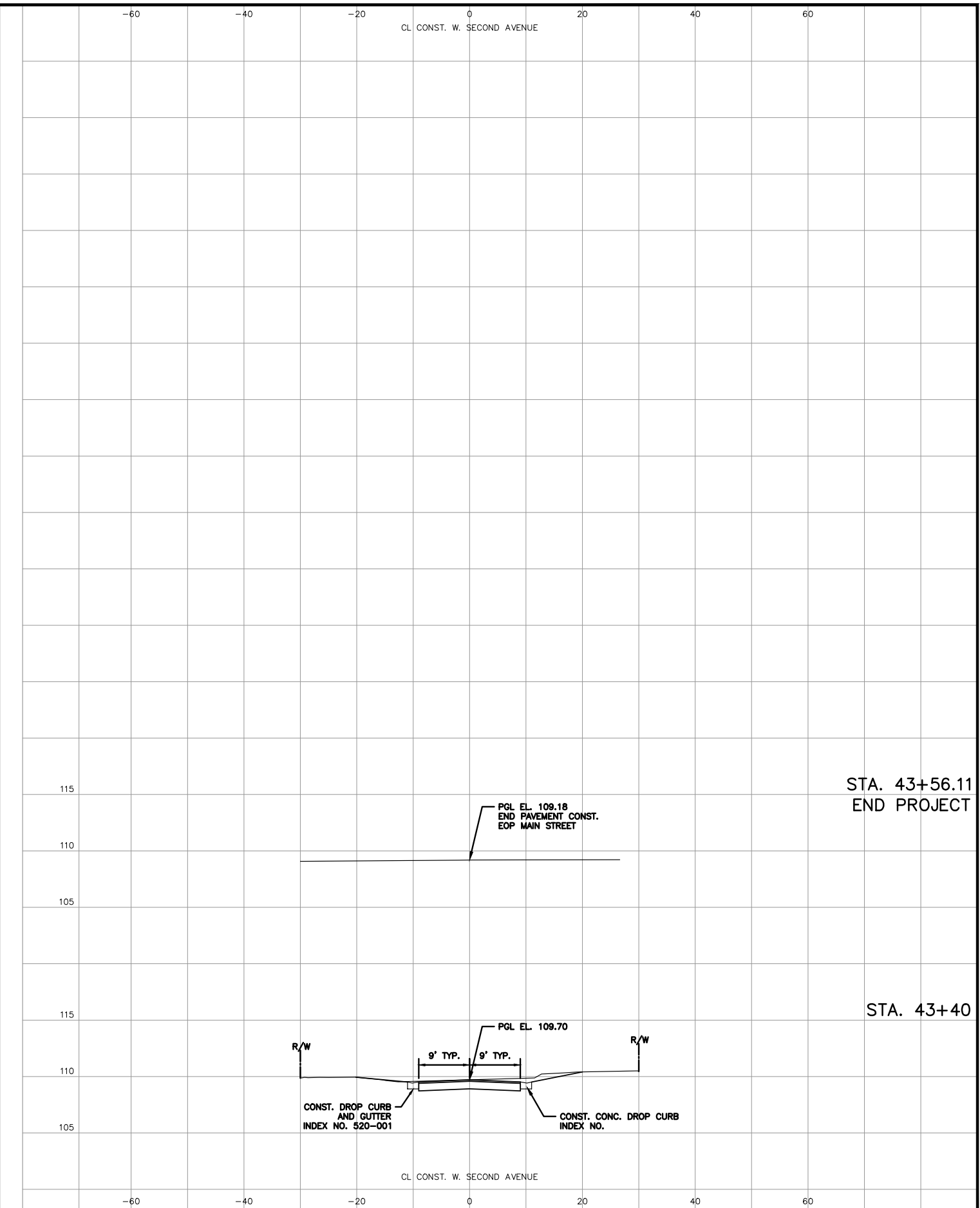
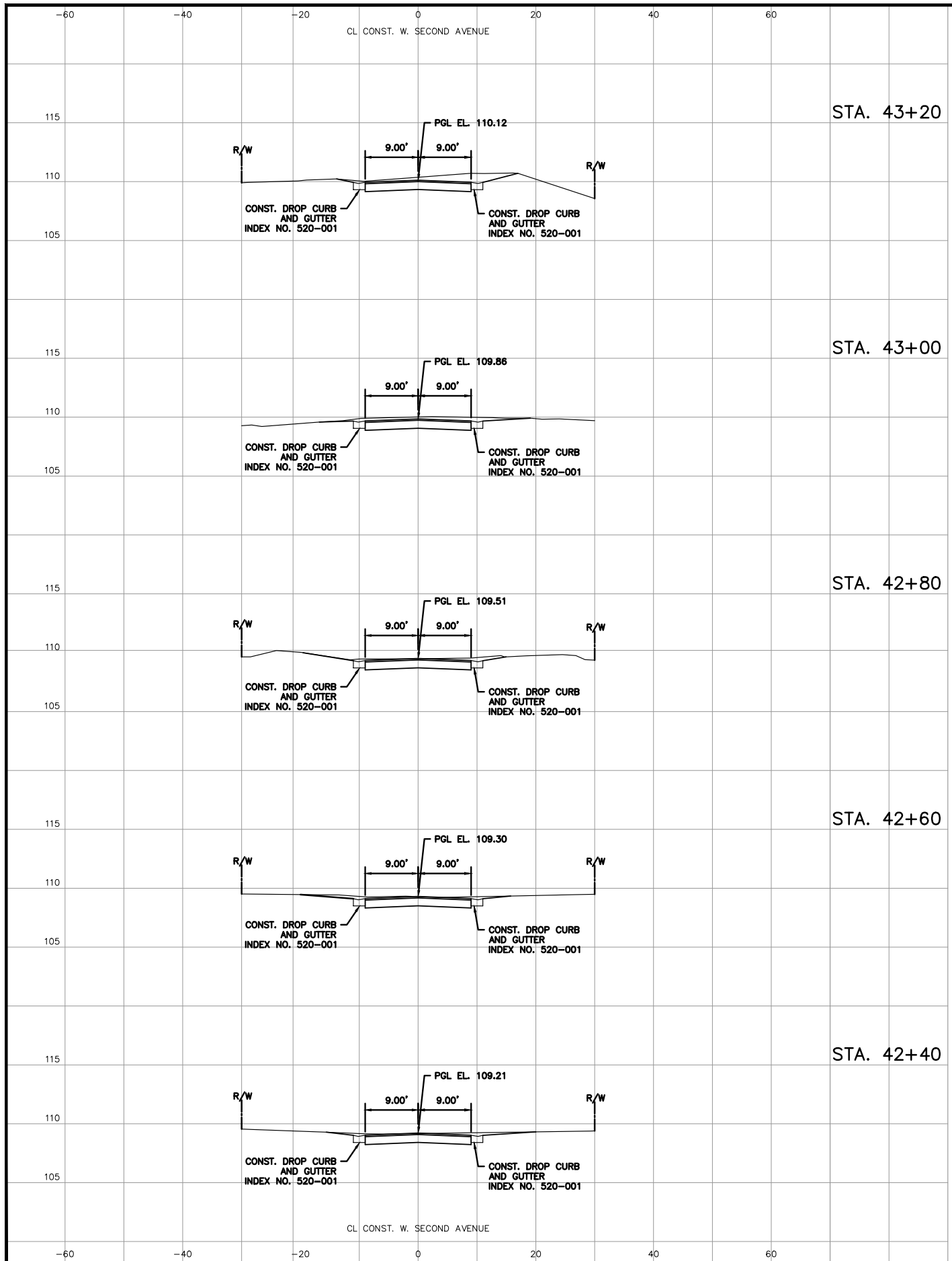
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**CROSS-SECTIONS
 W. SECOND AVENUE**

DRWG. SHEET 53 OF 86



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DRWG. SHEET 54 OF 86																																					



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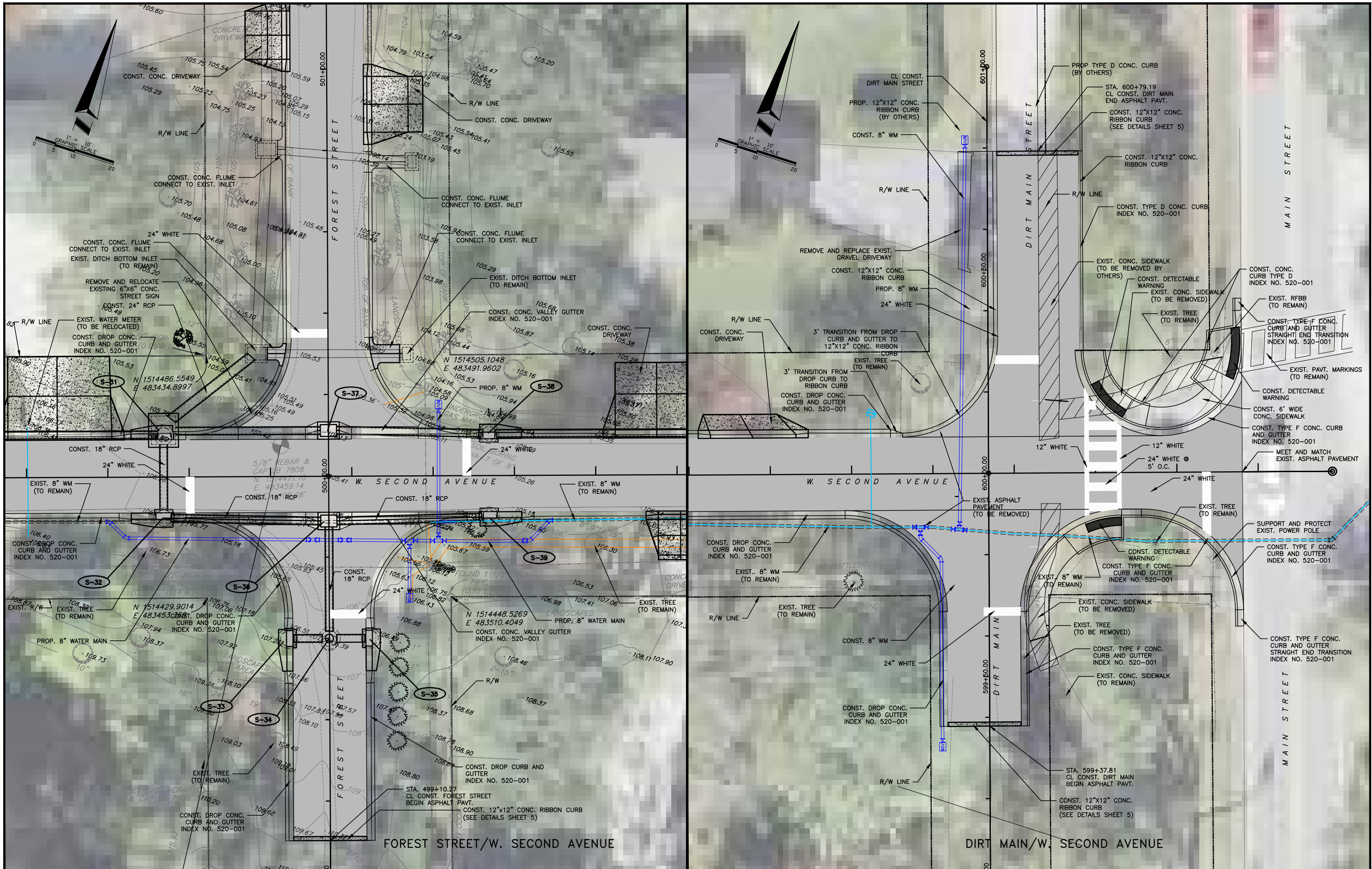
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INTERSECTION DETAILS
W. SECOND AVENUE
 DRWG. SHEET 55 OF 86



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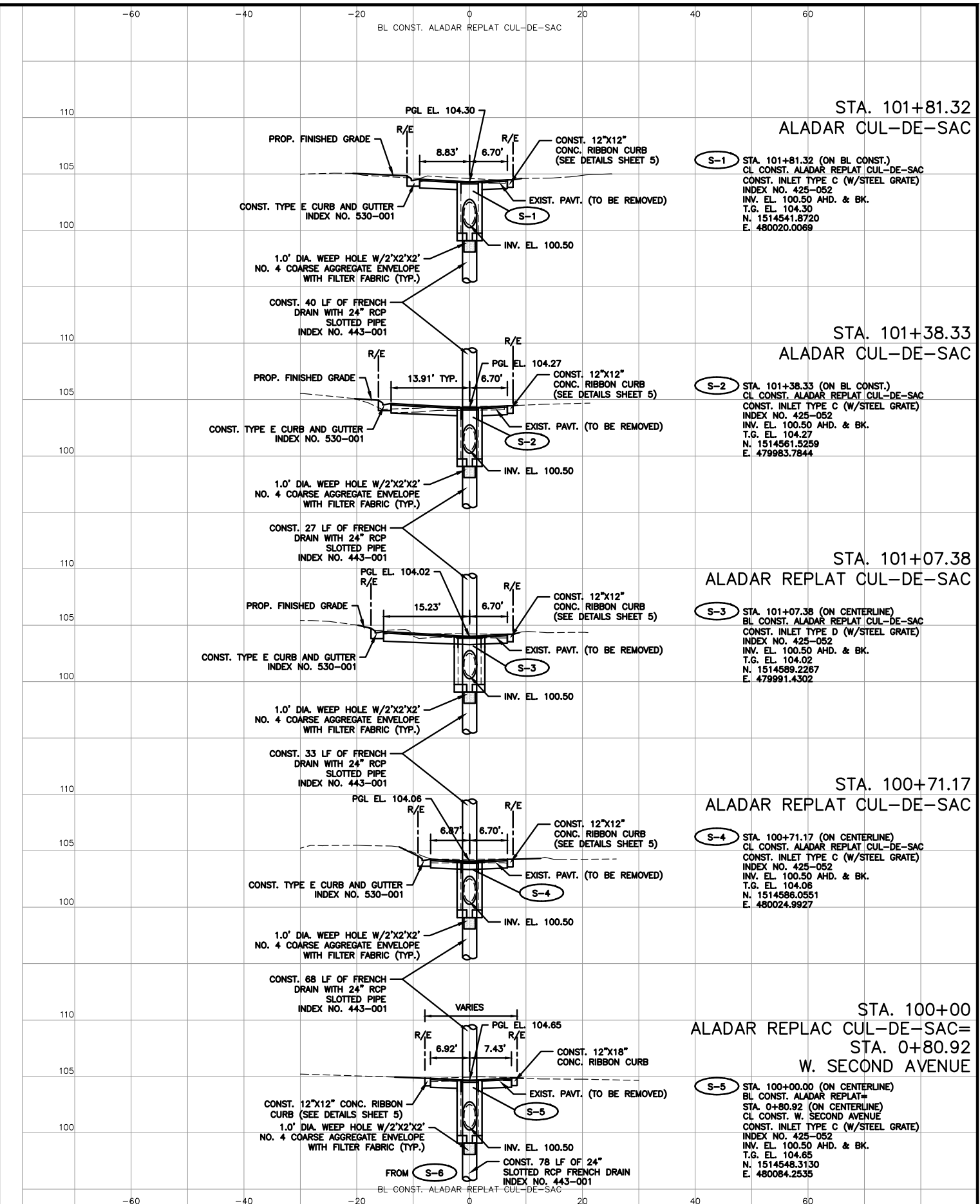
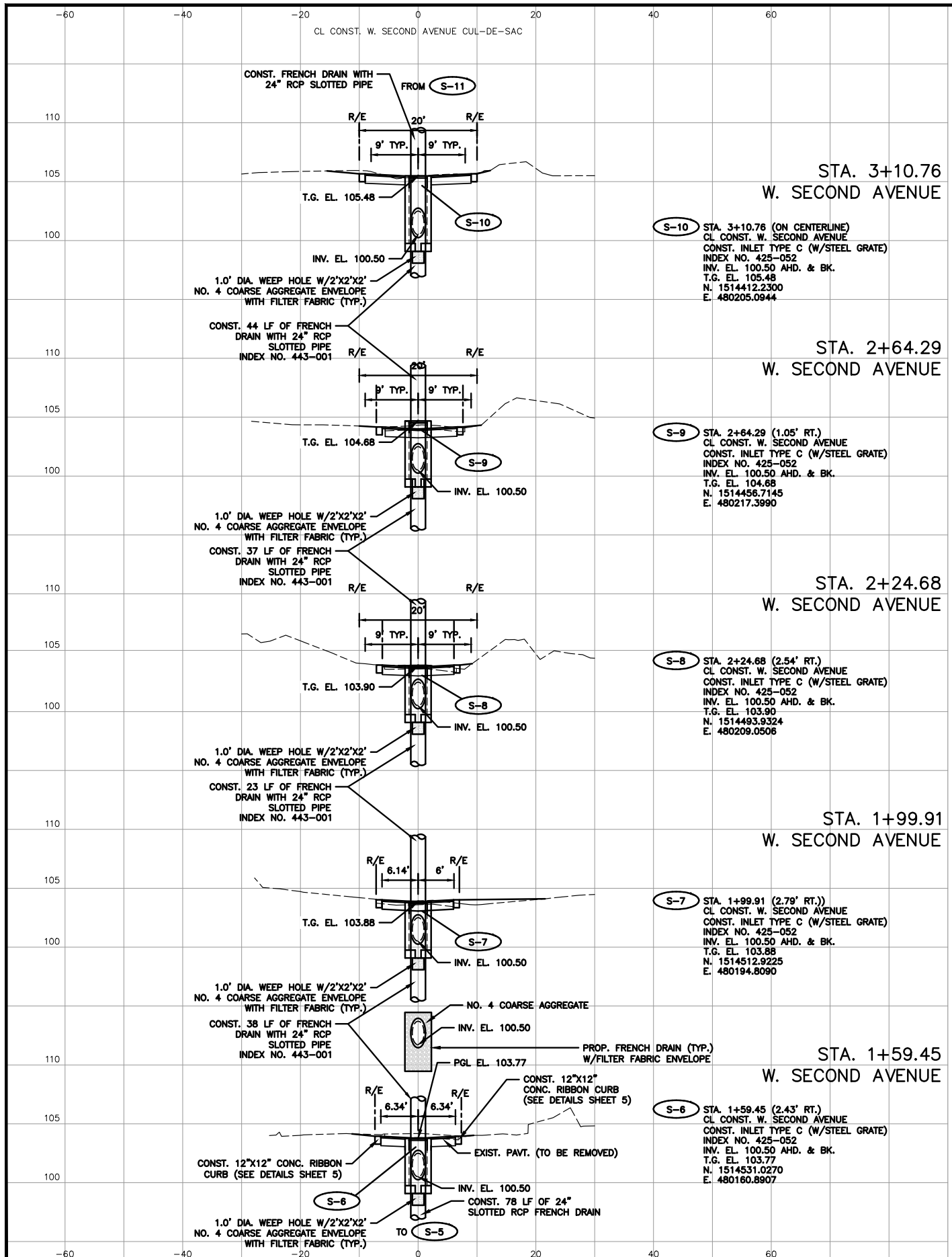
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 DRWG. SHEET 56 OF 86



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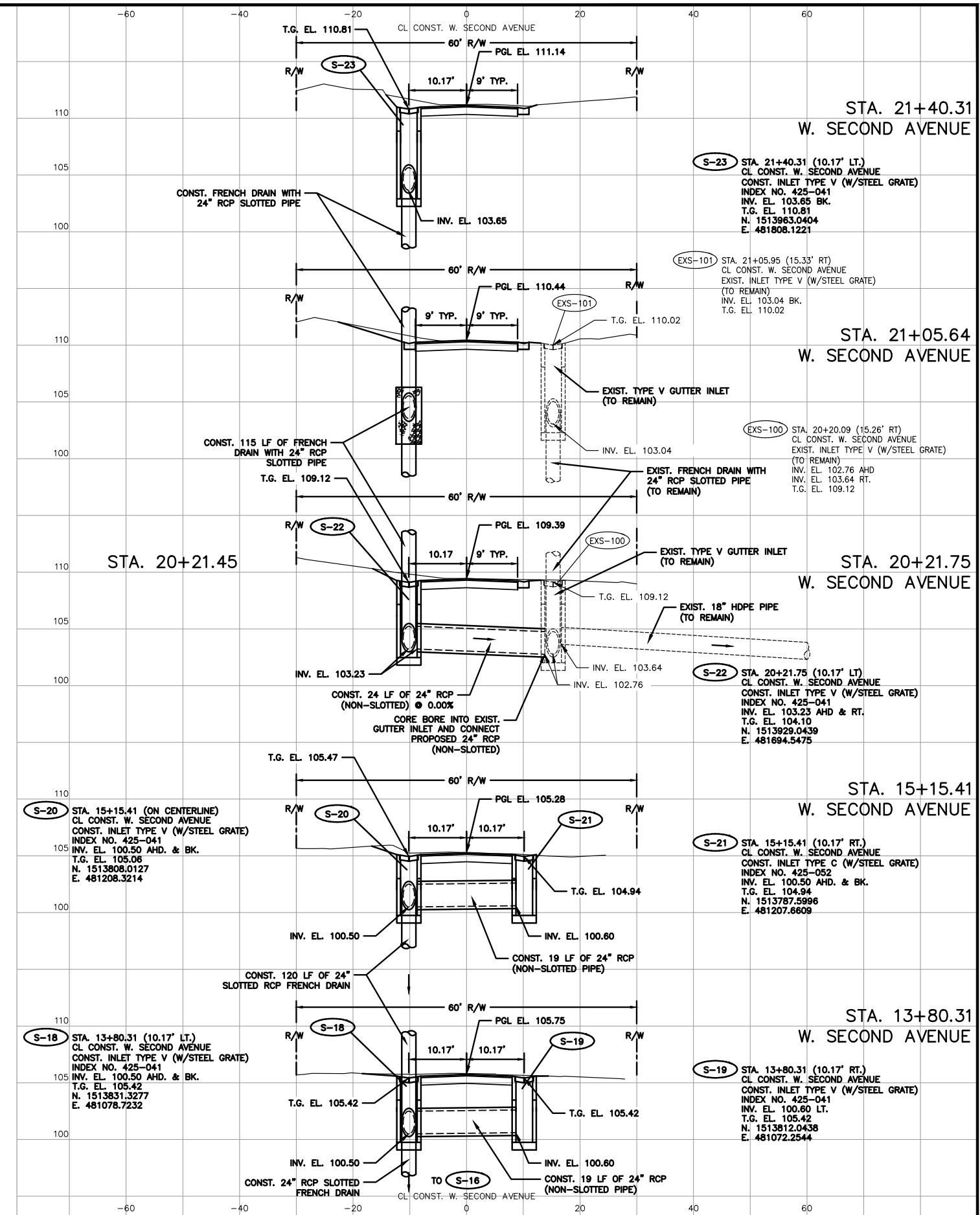
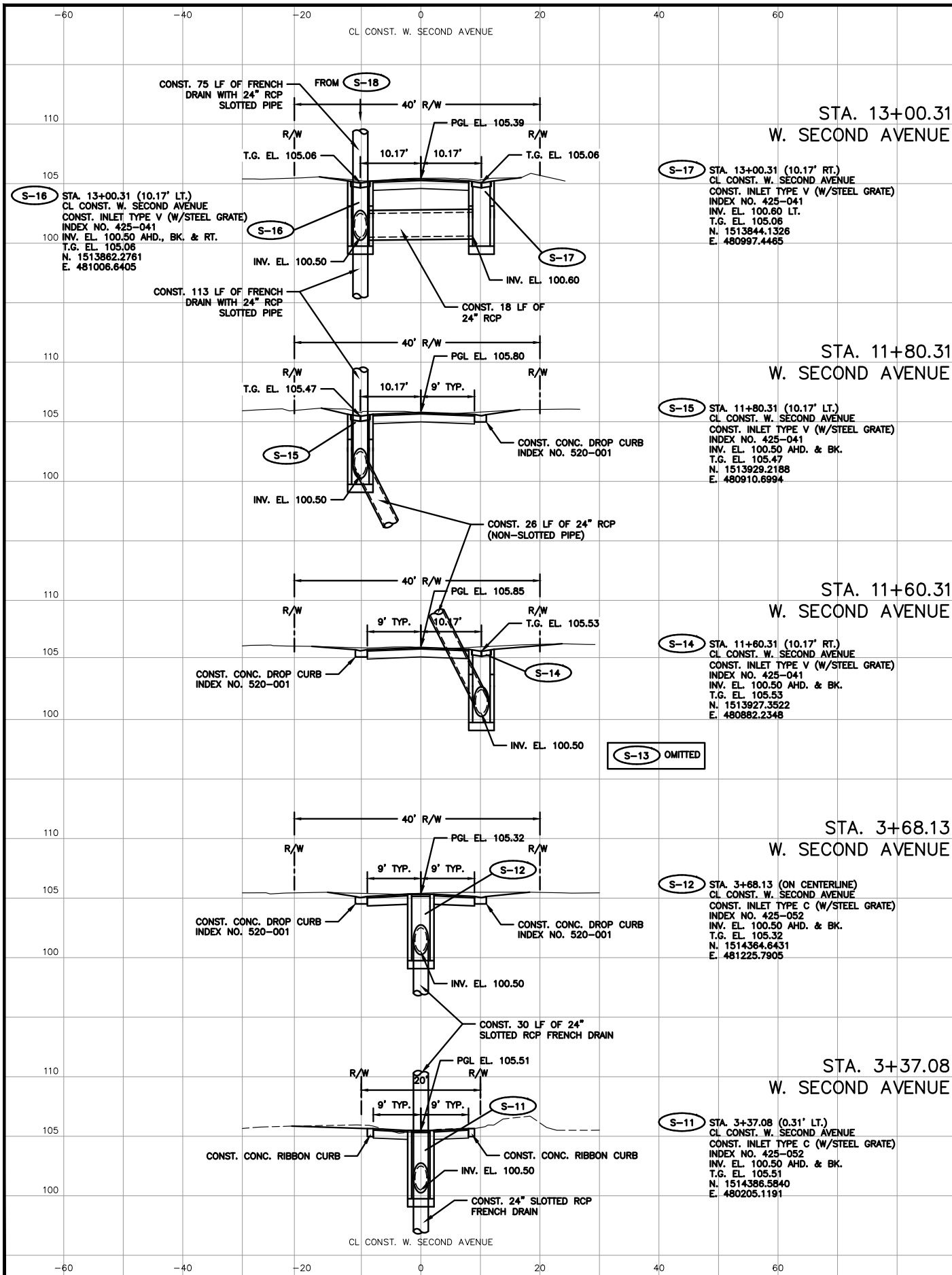
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**DRAINAGE
CROSS-SECTIONS
W. SECOND AVENUE**

DRWG. SHEET 57 OF 86



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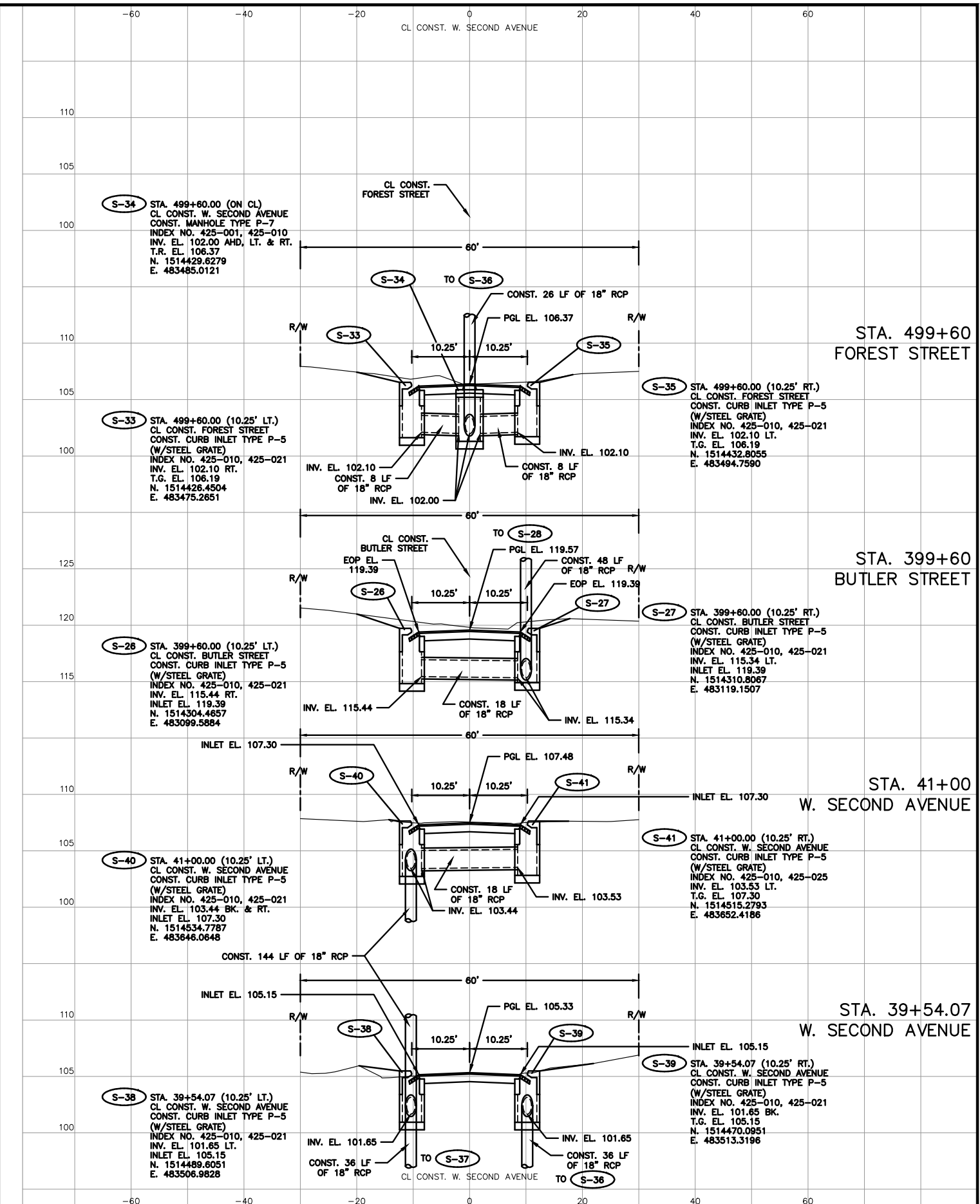
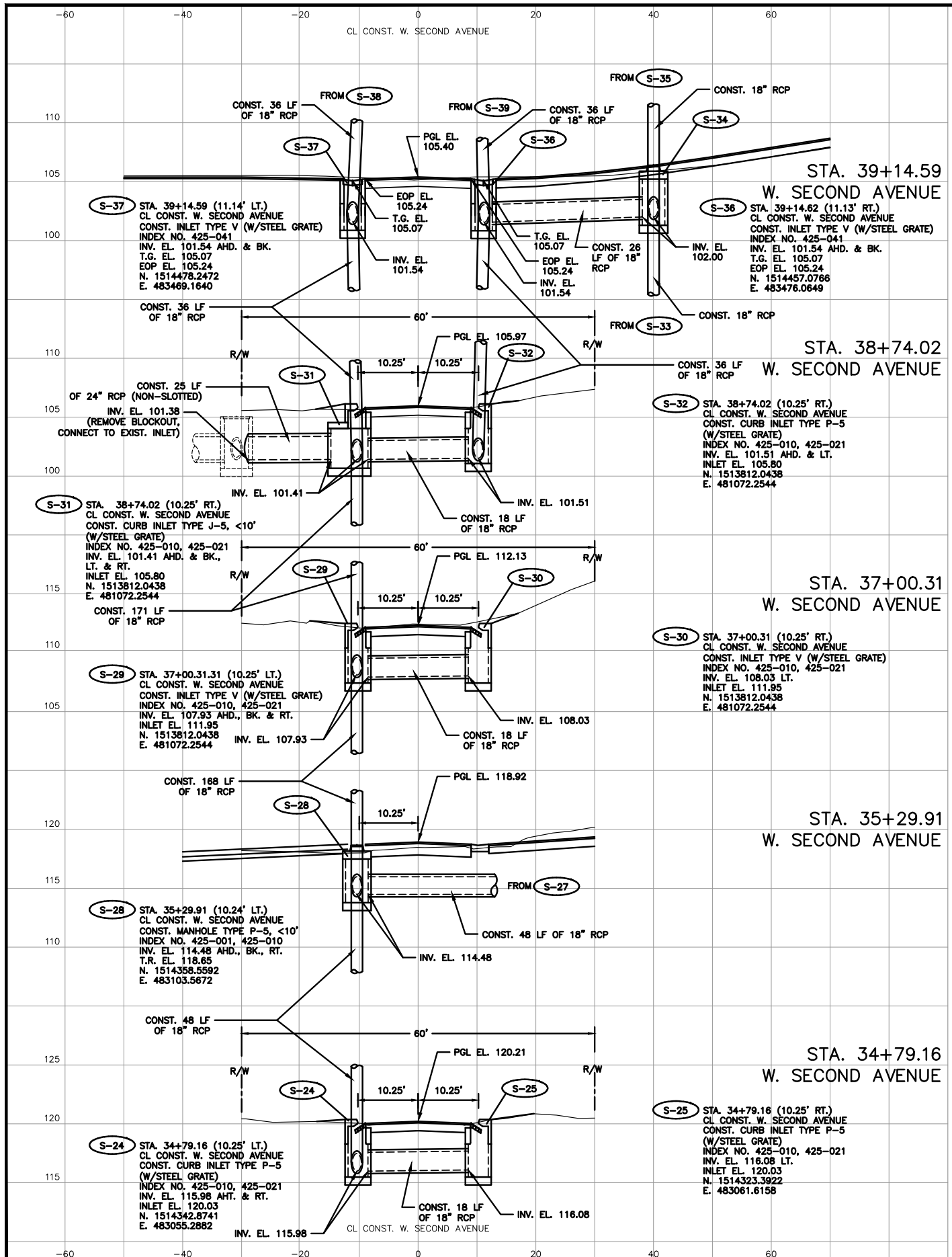
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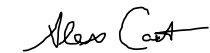
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DRAINAGE CROSS-SECTIONS W. SECOND AVENUE

DRWG. SHEET 59 OF 86

**ORANGE COUNTY UTILITIES DEPARTMENT
ENGINEERING DIVISION
9150 CURRY FORD ROAD
ORLANDO, FLORIDA 32825
(407) 254-9900**

APPROVED 09/07/2023



Alexander Castro, P.E.

FOR THE MANAGER,
ENGINEERING DIVISION
ORANGE COUNTY UTILITIES DEPARTMENT

THIS APPROVAL IS SUBJECT TO EXISTING REQUIREMENTS
OF ORANGE COUNTY UTILITIES DIVISION STANDARDS
AND SPECIFICATIONS.

**WEST SECOND AVENUE
WATER MAIN IMPROVEMENTS
MAIN STREET TO CUL-DE-SAC
WINDERMERE, FLORIDA
PROJECT NO. 22-1-152**

PLANS EXPIRE
09/07/2024

MARCH 2023

**JERRY L. DEMINGS
ORANGE COUNTY MAYOR**

**NICOLE H. WILSON
COMMISSIONER, DISTRICT 1**

**CHRISTINE MOORE
COMMISSIONER DISTRICT 2**

**MAYRA URIBE
COMMISSIONER DISTRICT 3**



**MARIBEL GOMEZ CORDERO
COMMISSIONER, DISTRICT 4**

**EMILY BONILLA
COMMISSIONER, DISTRICT 5**

**VICTORIA P. SIPLIN
COMMISSIONER DISTRICT 6**

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73-76	STANDARD DETAILS

**OWNER: TOWN OF WINDERMERE
CONTACT: ROBERT SMITH, TOWN MANAGER
E-MAIL: rsmith@town.windermere.fl.us
PHONE NO.: (407) 876-2563**

**County Administrator: Byron W. Brooks, A.I.C.P.
Director of Orange County Utilities Department: Ed Torres, M.S., P.E., Leed AP**

PREPARED BY:

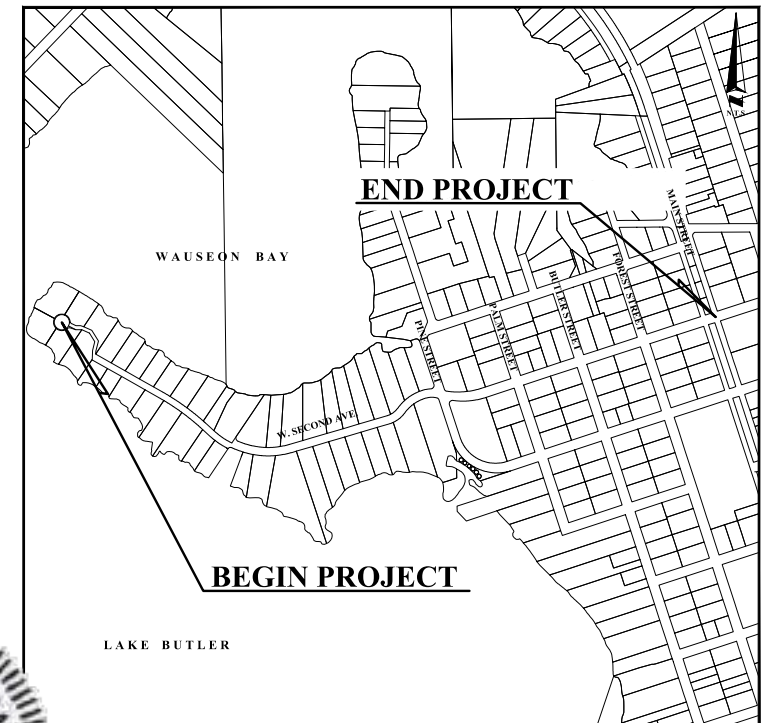
MGEC MICHAEL GALURA
ENGINEERING
CONSULTANTS, LLC

3222 Corrine Drive, Suite H
Orlando, Florida 32803
CERTIFICATE OF AUTHORIZATION NO. 29032

407/493-9983



LOCATION MAP Scale: 1"=150'



Michael B. Galura
Digitally signed by Michael B. Galura
DN: cn=Michael B. Galura, o=Michael Galura
Engineering Consultants, cn=Michael B. Galura
Location: Orlando, FL
Reason: I am the author of this document
Contact Info: (407) 493-9983
Date: 2023.04.21 11:44:08-04'00'

**100% PLANS
MARCH 2023**

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN
REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN
OBTAINING SCALED DATA. DIMENSION INFORMATION SHOULD NOT BE OBTAINED
BY SCALING PLANS.

GENERAL NOTES

ALL WORK AND REQUIREMENTS FROM THE NOTES IN THIS PAGE SHALL BE A REQUIREMENT OF THE CONTRACT AND EXECUTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO ORANGE COUNTY.

- 1. ALL UTILITIES FACILITIES CONSTRUCTION CONNECTING TO THE ORANGE COUNTY PUBLIC UTILITIES SYSTEM SHALL CONFORM TO THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL... 2. THE UTILITIES IMPROVEMENTS AND ADJUSTMENT SHOWN ON THESE DRAWINGS ARE INTENDED TO MAINTAIN THE INTEGRITY OF THE ORANGE COUNTY WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS... 3. COORDINATION AND COMMUNICATIONS WITH ORANGE COUNTY STAFF SHALL BE MADE THROUGH THE ORANGE COUNTY UTILITIES CONSTRUCTION DIVISION INSPECTOR...

OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR THE TEMPORARY DE-WATERING.

- 26. REPLACEMENT WATER SERVICE CONNECTIONS SHALL INCLUDE THE REPLACEMENT OF THE EXISTING WATER METER BOXES WHICH ARE TO BE PROVIDED BY ORANGE COUNTY UTILITIES AND INSTALLED BY THE CONTRACTOR... 27. THE CONTRACTOR SHALL INSTALL LONG WATER SERVICE CONNECTION PIPING UNDER PAVEMENT USING TRENCHLESS CONSTRUCTION METHODS... 28. WHERE SHOWN ON THE PLANS, LINE STOPS WILL BE USED TO ISOLATE PORTIONS OF THE EXISTING MAINS...

SPILL NOTES

- 1. THE CONTRACTOR SHALL PROVIDE TANKERS AND SIGNED DOCUMENTS ACKNOWLEDGING THE UNDERSTANDING OF THE ORANGE COUNTY UTILITY 'EMERGENCY WASTEWATER SPILL AND WATER MAIN BREAK PROCEDURES'... 2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ON-SITE DURING THE LIFE OF THE PROJECT, A WEATHER PROOF ENCLOSURE CONTAINING A READILY ACCESSIBLE LIST OF EMERGENCY CONTACTS AND PHONE NUMBERS...

APPENDIX A STANDARD DRAWINGS OCU GENERAL NOTES 1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY TO INCLUDING BUT NOT LIMITED TO WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS, RECLAIMED WATER MAINS... 2. SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH OPERATOR... 3. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTOR... 4. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTOR IN ACCORDANCE WITH TABLE 4110-1...

APPROVED 09/07/2023

Alex Castro

Alexander Castro, P.E.

FOR THE MANAGER, ENGINEERING DIVISION ORANGE COUNTY UTILITIES DEPARTMENT

THIS APPROVAL IS SUBJECT TO EXISTING REQUIREMENTS OF ORANGE COUNTY UTILITIES DIVISION STANDARDS AND SPECIFICATIONS.

Table with 5 columns: REV., DATE, DESCRIPTION, APP'D BY, OTHERS. Includes a sign-off section with fields for CLIENT, DRAWN BY, DESIGNED BY, CHECKED BY, and DATE.

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC 3222 Corrine Drive, Suite H Orlando, Florida 32803 407/493-9983 CERTIFICATE OF AUTHORIZATION NO. 29032



ORANGE COUNTY UTILITIES DEPARTMENT 9150 CURRY FORD ROAD ORLANDO, FLORIDA 32825 (407) 254-9900

JOB No. TOW-052.01.000 FILE NAME: SEE LEFT MARGIN ARCHIVE DISC: SCALE: NONE ORANGE COUNTY UTILITIES DEPARTMENT STANDARD DRAWINGS SPECIFICATIONS MANUAL FIGURE GN 10/10/2021 DRWG. SHEET 61 OF 86

SUMMARY OF OCU PAY ITEMS

OCU PAY ITEM NOTES

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY TOTAL	
			PLAN	FINAL
1050-11-221	F&I WATER MAIN, 4" RESTRAINED JOINT, COMPLETE INCLUDING FITTINGS	LF	440	
1050-11-423	F&I WATER MAIN, 8" DUCTILE IRON, COMPLETE INCLUDING FITTINGS	LF	2,341	
1050-16-221	REMOVE AND DISPOSE OF EXISTING 4" WATER MAIN	LF	368	
1050-16-222	REMOVE AND DISPOSE OF EXISTING 6" WATER MAIN	LF	1,859	
1050-16-223	REMOVE AND DISPOSE OF EXISTING 8" WATER MAIN	LF	466	
1051-4	REPLACE 1" WATER SERVICE LATERAL, SHORT SIDE	EA	22	
1051-5	REPLACE 1" WATER SERVICE LATERAL, LONG SIDE	EA	19	
1080-24-104	F&I GATE VALVE ASSEMBLY, 4", COMPLETE	EA	2	
1080-24-106	F&I GATE VALVE ASSEMBLY, 6", COMPLETE	EA	3	
1080-24-108	F&I GATE VALVE ASSEMBLY, 8", COMPLETE	EA	38	
1080-25-104	F&I 4" BLOWOFF ASSEMBLY, COMPLETE (PERMANENT)	EA	1	
1080-25-108	F&I 8" BLOWOFF ASSEMBLY, COMPLETE (TEMPORARY)	EA	9	
1080-25-600	BLOWOFF ASSEMBLY, REMOVE	EA	1	
1080-26-108	F&I AIR RELEASE VALVE ASSEMBLY, 8", COMPLETE	EA	3	
1080-27-104	UTILITY FIXTURE, LINE STOP ASSEMBLY, FURNISH AND INSTALL, 4"	EA	1	
1080-27-106	UTILITY FIXTURE, LINE STOP ASSEMBLY, FURNISH AND INSTALL, 6"	EA	2	
1080-27-108	UTILITY FIXTURE, LINE STOP ASSEMBLY, FURNISH AND INSTALL, 8"	EA	10	
1080-28-104	CUT-IN CONNECTION TO EXISTING WM, 4"	EA	1	
1080-28-108	CUT-IN CONNECTION TO EXISTING WM, 8"	EA	10	
1644-116-08	FIRE HYDRANT ASSEMBLY, STANDARD, F&I, 6"	EA	3	
1644-900	FIRE HYDRANT, REMOVE	EA	3	

1050-11-221 4" DUCTILE IRON WATER MAINS SHALL BE ACCORDING TO THE ORANGE COUNTY UTILITIES (OCU) STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (LATEST EDITION). IN ADDITION, THIS PAY ITEM INCLUDES ALL DUCTILE IRON PIPE FITTING REQUIRED PER PLAN INCLUDING BENDS, TEES, CROSSES, REDUCERS, SLEEVES, CAPS PLUGS AND OFFSETS. THE COST FOR DISINFECTION AND SAMPLING SHALL BE INCLUDED IN THE COST FOR THIS PAY ITEM.

1050-11-423 8" PIPE USED IN THE OCU WATER DISTRIBUTION SYSTEM SHALL BE ACCORDING TO THE ORANGE COUNTY UTILITIES (OCU) STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (LATEST EDITION). THIS PAY ITEM INCLUDES ALL DUCTILE IRON PIPE FITTING REQUIRED PER PLAN INCLUDING BENDS, TEES, CROSSES, REDUCERS, SLEEVES, CAPS PLUGS, BLIND FLANGES AND OFFSETS. THE COST FOR DISINFECTION AND SAMPLING SHALL BE INCLUDED IN THE COST FOR THIS PAY ITEM.

1050-16- THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS TO CUT AND REMOVE THE PIPELINE AND APPURTENANCES SUCH AS VALVES, FITTINGS, AND OTHER MATERIALS AND REMOVE VALVE BOXES AS DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CUTTING AND PLUGGING OF ABANDONED PIPE SHALL INCLUDE BUT MAY NOT BE LIMITED TO: 1) EXCAVATION OF THE WORK PIT; 2) REMOVAL OF PIPE OR APPURTENANCES TO ALLOW THE INSTALLATION OF CAPS OR PLUGS ON OPEN ENDS OF THE ABANDONED PIPE; 3) FURNISHING AND INSTALLING GROUT TO PLUG ANY ABANDONED OPEN END OF PIPE; 4) FURNISHING AND INSTALLING A CAP OR PLUG AND ADEQUATE RESTRAINT TO WITHSTAND A WORKING PRESSURE OF 150 PSI ON ALL IN-SERVICE OPEN ENDS OF PIPE; 5) BACKFILLING AND COMPACTING THE WORK PIT; 6) PROVISION OF LINE STOPS (AS NEEDED); AND 7) CLEANING UP AND RESTORING THE DISTURBED AREAS, INCLUDING THE RE-GRADING OF THE TERRAIN. ALL WORK SHALL BE IN ACCORDANCE WITH THE ORANGE COUNTY UTILITIES (OCU) STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (LATEST EDITION).

1051-4/-5 THIS PAY ITEM INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT FOR THE INSTALLATION OF NEW 1" SHORT AND LONG WATER METER SERVICES, BOTH WITH AND WITHOUT IRRIGATION METERS. SHORT WATER METER SERVICE IS DEFINED AS A SERVICE LINE WITH WATER METER AND BOX INSTALLED ON THE SAME SIDE OF THE ROAD AS THE MAIN. LONG WATER METER SERVICE IS DEFINED AS A SERVICE LINE WITH A WATER METER AND BOX INSTALLED ON THE OPPOSITE SIDE OF THE ROAD AS THE MAIN AND SHALL BE FURNISHED BY OCU. WATER METER SERVICE INSTALLATION SHALL INCLUDE BUT NOT BE LIMITED TO: 1) ALL NECESSARY EXCAVATIONS; 2) MAKING THE APPROPRIATE SIZE TAP; 3) BORE AND JACK OR PUSH-PULL PIPE OR TUBING UNDER DRIVEWAYS, SIDEWALKS AN OTHER PAVED AREAS THAT ARE TO REMAIN UNDISTURBED AND WHEN APPLICABLE AND APPROVED BY THE ENGINEER; 4) FURNISHING AND INSTALLING THE APPROPRIATE SIZE AND TYPE OF CORPORATION STOP, COPPER TUBING AND REQUIRED SERVICE FITTINGS, CURB COCK, METER BOX AND METER COUPLING PER THE OCU TECHNICAL SPECIFICATIONS; 5) INSTALLATION OF THE APPROPRIATELY SIZED WATER METER; 6) BACKFILLING AND COMPACTING OF ALL EXCAVATIONS. THE COST FOR THE CONTRACTOR TO INSTALL AND REPLACE THE TEMPORARY 1" POLY SERVICE LINES TO MAINTAIN EXISTING SERVICE SHALL BE INCLUDED IN THE COST FOR THE NEW 1" COPPER SERVICES. ALL WORK SHALL BE IN ACCORDANCE WITH THE ORANGE COUNTY UTILITIES (OCU) STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (LATEST EDITION).

1080-11-205 THIS PAY ITEM INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT FOR THE INSTALLATION OF GATE VALVES, WET TAPS AND BLOW-OFF INSTALLATION AND SHALL INCLUDE BUT NOT BE LIMITED TO: 1) ALL NECESSARY EXCAVATIONS; 2) MAINTAINING THE EXCAVATION, WHICH SHALL INCLUDE DEWATERING, BRACING AND SHEETING (IF REQUIRED); 3) MAKING ALL NECESSARY TAPS, WHICH ARE REQUIRED TO AFFECT THE TIE-IN CONDITION; 4) FURNISHING AND INSTALLING ALL NECESSARY MATERIAL REQUIRED TO CONSTRUCT THE TIE-IN CONNECTIONS; AND 5) BACKFILLING AND COMPACTING OF ALL EXCAVATIONS AND RESTORING THE DISTURBED AREAS. ALL VALVES AND TAPS SHALL MEET THE MOST CURRENT ORANGE COUNTY UTILITIES (OCU) STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (LATEST EDITION).

1080-27- THIS PAY ITEM INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT FOR THE INSTALLATION OF LINE STOPS AND SHALL MEET THE MOST CURRENT ORANGE COUNTY UTILITIES (OCU) STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (LATEST EDITION).

1080-28- THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS TO CUT AND CONNECT THE NEW PIPELINE TO THE EXISTING PIPELINE AS DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CUTTING AND REMOVAL AND DISPOSAL OF THE EXISTING PIPE SHALL BE PAID FOR IN OTHER ITEMS OF THIS DOCUMENT. THE PIPE REMOVAL SHALL INCLUDE BUT NOT BE LIMITED TO: 1) ALL NECESSARY EXCAVATIONS; 2) REMOVAL OF PIPE TO ALLOW INSTALLATION OF CONNECTION; 3) BACKFILLING AND COMPACTING THE WORK PIT; AND 4) CLEANING UP AND RESTORING THE JOB SITE, INCLUDING ANY RE-GRADING OF THE ADJACENT TERRAIN. ALL WORK SHALL BE IN ACCORDANCE WITH THE ORANGE COUNTY UTILITIES (OCU) STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (LATEST EDITION).

1644-116-08 THIS PAY ITEM SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS TO INSTALL A NEW FIRE HYDRANT ASSEMBLY AS DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ALL WORK SHALL BE IN ACCORDANCE WITH ORANGE COUNTY UTILITIES (OCU) STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (LATEST EDITION).

1644-900 THIS PAY ITEM INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS TO CUT AND REMOVE PIPELINE AND APPURTENANCES SUCH AS VALVES, FITTING AND OTHER MATERIALS. THE REMOVAL OF THE ABANDONED PIPE SHALL INCLUDE BUT NOT BE LIMITED TO: 1) EXCAVATION OF THE WORK PIT; 2) REMOVING OF PIPE AND/OR APPURTENANCES TO ALLOW INSTALLATION OF CAPS AND PLUGS ON OPEN ENDS OF ABANDONED PIPE; 3) FURNISHING AND INSTALLING GROUT TO PLUG ANY ABANDONED OPEN END OF PIPE (IF NEEDED); 4) FURNISHING AND INSTALLING A CAP OR PLUG AND ADEQUATE RESTRAINT TO WITHSTAND A WORKING PRESSURE OF 150 PSI, ON ALL IN-SERVICE OPEN ENDS OF PIPE; 5) BACKFILLING AND COMPACTING THE WORK PIT; 6) AND CLEANING UP AND RESTORING THE JOB SITE, WHICH SHALL INCLUDE THE RE-GRADING OF THE DISTURBED AREAS.

REFERENCE: ORANGE COUNTY UTILITIES (OCU) STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (LATEST EDITION).

APPROVED 09/07/2023

Alex Castro

Alexander Castro, P.E.

FOR THE MANAGER,
ENGINEERING DIVISION
ORANGE COUNTY UTILITIES DEPARTMENT

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REV.	DATE	DESCRIPTION	APP'D BY	SIGN OFF	DATE	FIELD:
				CLIENT		PEC SURVEYING AND MAPPING, LLC
				PM/CM BC		DRAWN BY: CADD
				PM/CM DM		DESIGNED BY: MBG
				PM		CHECKED BY: MBG
				CM		DATE: MARCH 2023
				OTHERS		

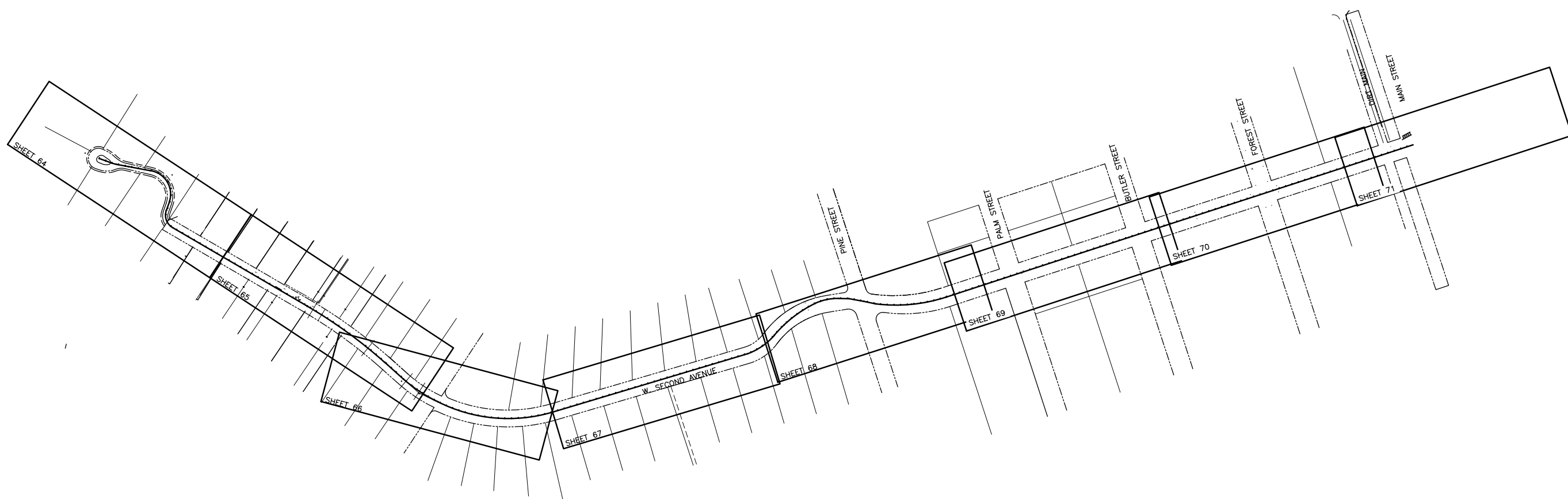
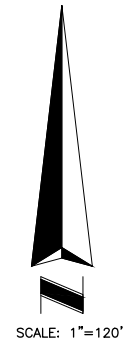
MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 Corrine Drive, Suite H Orlando, Florida 32803 407/493-9983
CERTIFICATE OF AUTHORIZATION NO. 29032



ORANGE COUNTY
UTILITIES DEPARTMENT
9150 CURRY FORD ROAD
ORLANDO, FLORIDA 32825
(407) 254-9900

JOB No. TOW-052.01.000
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ARCHIVE DISC:
SCALE: NONE

SUMMARY OF PAY ITEMS
OCU WATER UTILITIES



APPROVED 09/07/2023

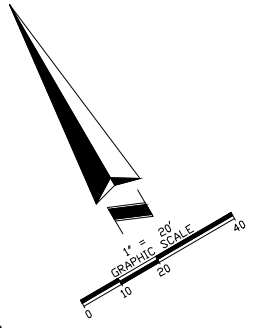
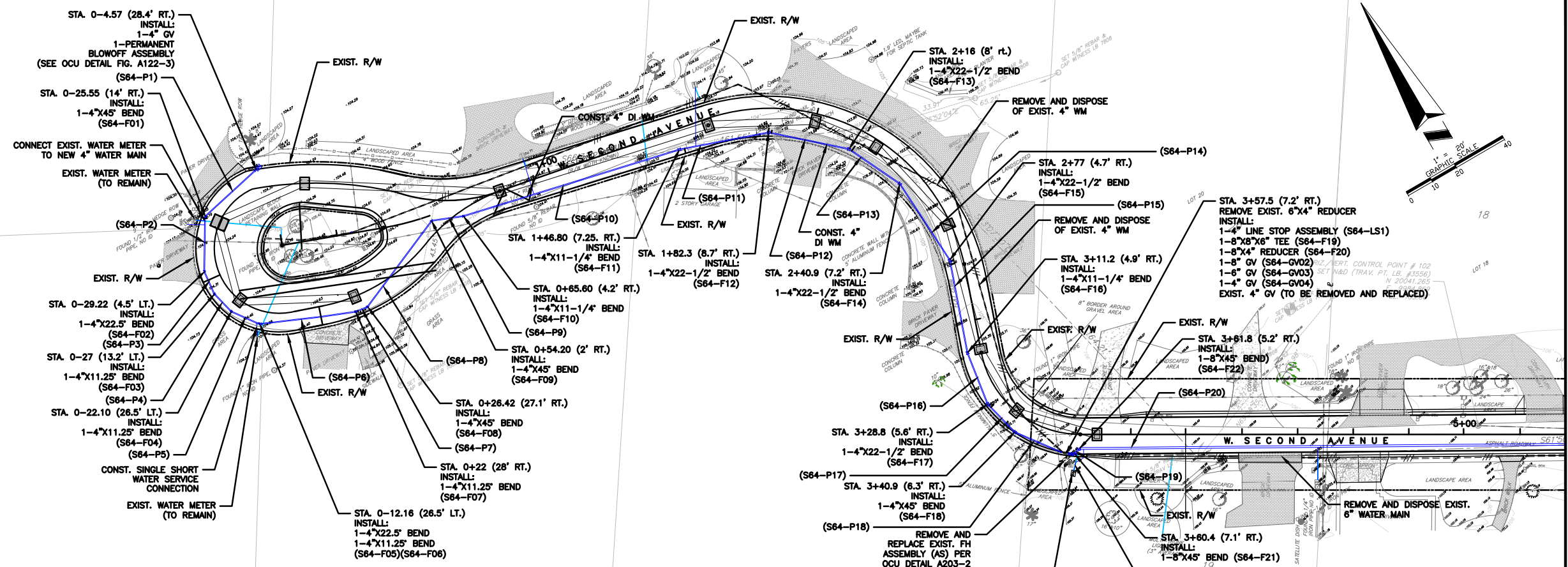
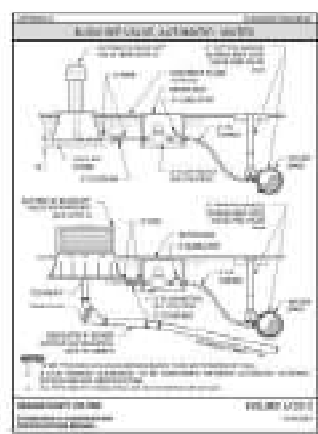
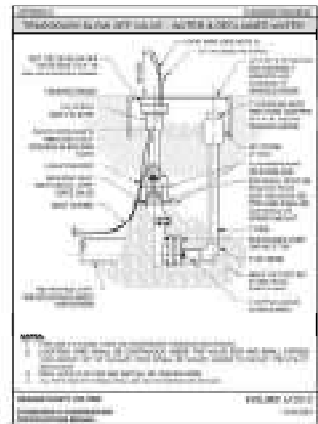
Alex Castro

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REV.		DATE	DESCRIPTION	APP'D BY	SIGN OFF	DATE	FIELD:	MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC 3222 Corrine Drive, Suite H Orlando, Florida 32803 407/493-9983 CERTIFICATE OF AUTHORIZATION NO. 29032	ORANGE COUNTY UTILITIES DEPARTMENT 9150 CURRY FORD ROAD ORLANDO, FLORIDA 32825 (407) 254-9900	TOW-052.01.000 FILE NAME: SEE LEFT MARGIN ARCHIVE DISC: SCALE: HORIZ. = 1"=40'	UTILITY PLAN PROJECT LAYOUT
					CLIENT		PEC SURVEYING AND MAPPING, LLC			DRWG. SHEET 63 OF 86	
					PM/CM BC		DRAWN BY: CADD				
					PM/CM DM		DESIGNED BY: MBG				
					PM		CHECKED BY: MBG				
					CM		DATE: MARCH 2023				
					OTHERS						



NOTE:

ALL UTILITIES (INCLUDING PUMP STATIONS, IF APPLICABLE), LOCATED OUTSIDE PUBLIC RIGHTS-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED. MAINTAIN A MINIMUM OF 3- FEET OF COVER OVER ALL PROPOSED WATER, WASTEWATER AND RECLAIMED WATER LINES. PLEASE REFER TO THE FOLLOWING SECTIONS FROM THE 2021 ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (2021):

SECTION 2210, PART 4, A. WATER MAINS
 SECTION 2310, PART 5, B. GRAVITY MAINS
 SECTION 2311, PART 4, A. FORCE MAINS
 SECTION 2510, PART 6, A. RECLAIMED WATER MAINS

ALL EXISTING UTILITIES HAVE BEEN FIELD VERIFIED (VERTICALLY AND HORIZONTALLY) AT ALL POINTS OF CONNECTION AND AT ALL AREAS OF CONFLICT WITH OCU INFRASTRUCTURE (OCU MANUAL SECTION 2111, 3.03 G.

APPROVED 09/07/2023

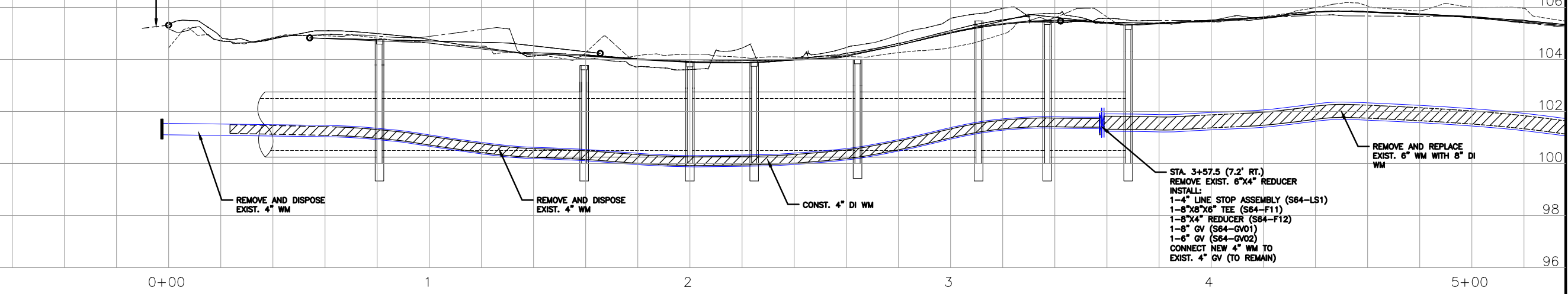
Alex Castro

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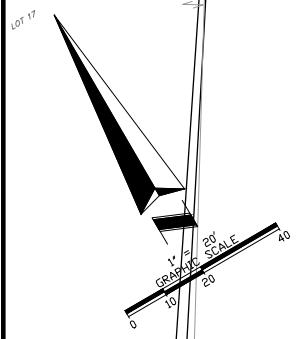
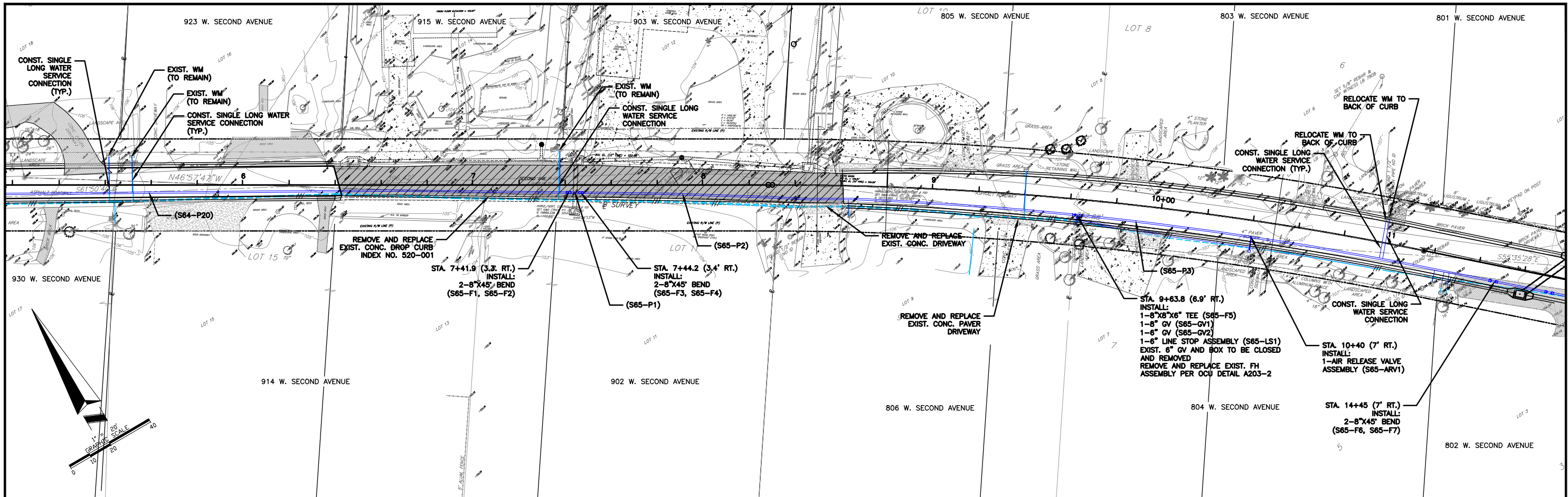
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 ORANGE COUNTY UTILITIES DEPARTMENT

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STA. 0-4.57 (28.4' RT.)
 INSTALL:
 1-4" GV
 1-PERMANENT BLOWOFF ASSEMBLY (SEE OCU DETAIL FIG. A122-3)



REV.	DATE	DESCRIPTION	APP'D BY	OTHERS	SIGN OFF	DATE	FIELD: PEC SURVEYING AND MAPPING, LLC	 MICHAEL GALURA ENGINEERING CONSULTANTS, LLC 3222 Corrine Drive, Suite H Orlando, Florida 32803 CERTIFICATE OF AUTHORIZATION NO. 29032	 ORANGE COUNTY UTILITIES DEPARTMENT 9150 CURRY FORD ROAD ORLANDO, FLORIDA 32825 (407) 254-9900	JOB No. TOW-052.01.000	WATER MAIN PLAN AND PROFILE W. SECOND AVENUE DRWG. SHEET 64 OF 86
					CLIENT		DRAWN BY: CADD			FILE NAME: SEE LEFT MARGIN	
					PM/CM BC		DESIGNED BY: MBG			ARCHIVE DISC:	
					PM/CM DM		CHECKED BY: MBG			SCALE: HORIZ. = 1"=20'	
					PM		DATE: MARCH 2023				



NOTE:
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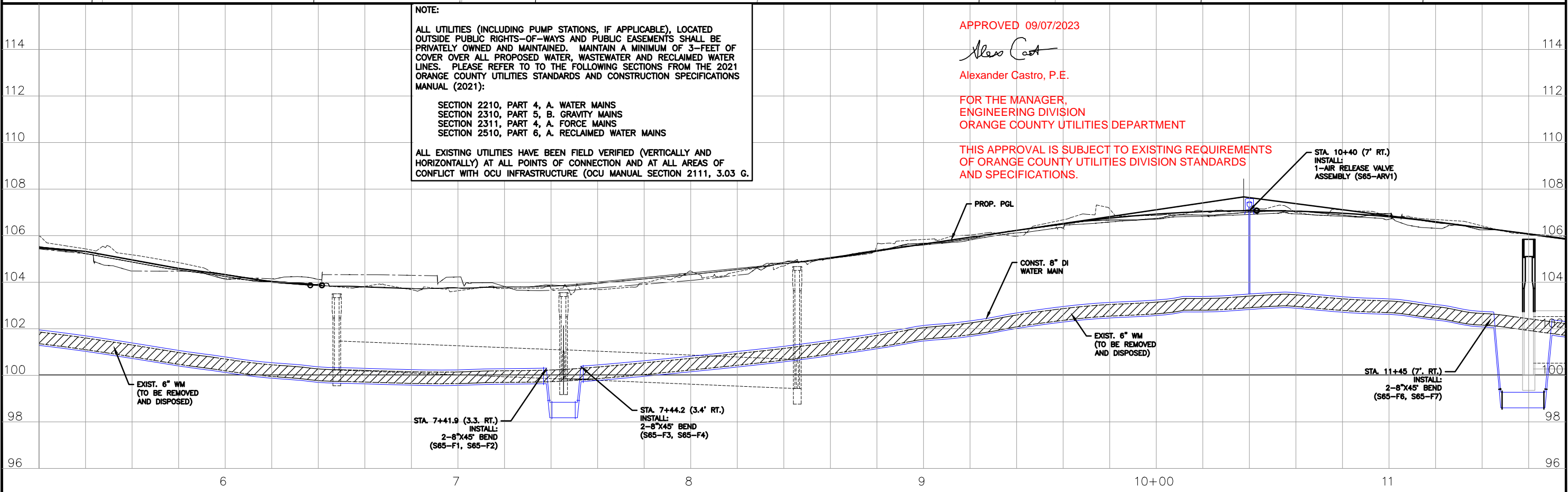
ALL EXISTING UTILITIES HAVE BEEN FIELD VERIFIED (VERTICALLY AND HORIZONTALLY) AT ALL POINTS OF CONNECTION AND AT ALL AREAS OF CONFLICT WITH OCU INFRASTRUCTURE (OCU MANUAL SECTION 2111, 3.03 G.

APPROVED 09/07/2023

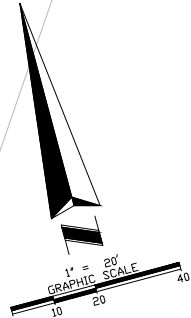
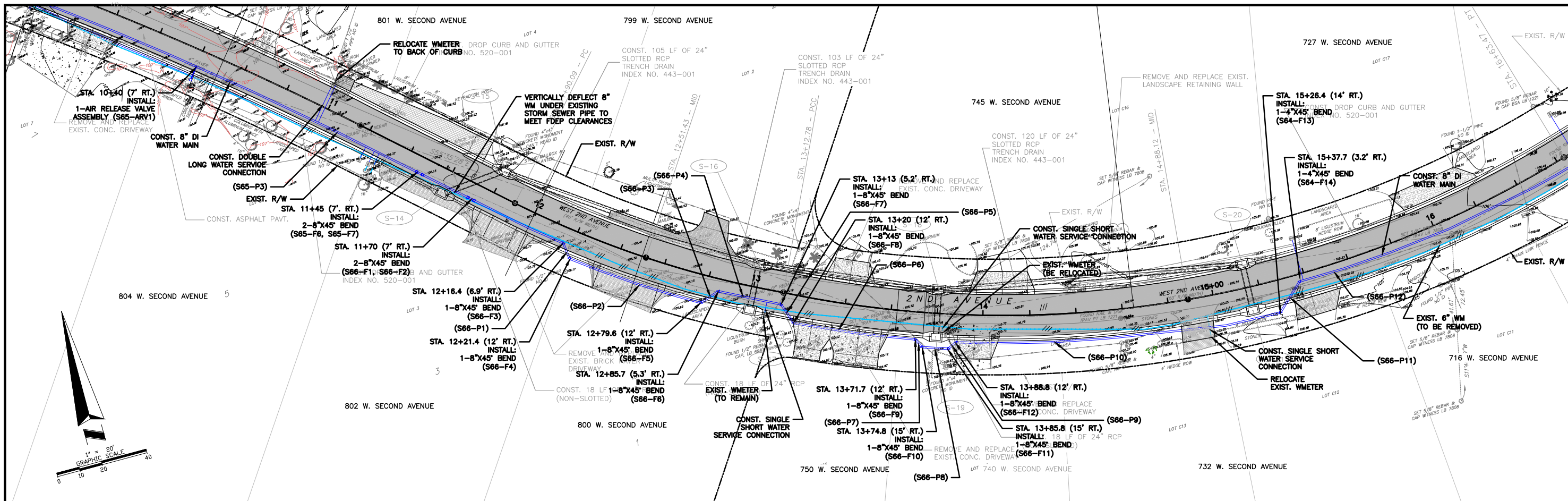
Alex Castro
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FOR THE MANAGER,
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					CLIENT		PEC SURVEYING AND MAPPING, LLC									
					PM/CM BC		DRAWN BY:		3222 Corrine Drive, Suite H	9150 CURRY FORD ROAD						
					PM/CM DM		DESIGNED BY:		Orlando, Florida 32803	ORLANDO, FLORIDA 32825						
					PM		CHECKED BY:		407/493-9983	(407) 254-9900						
					CM		DATE:		MARCH 2023							



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 ALL UTILITIES (INCLUDING PUMP STATIONS, IF APPLICABLE), LOCATED OUTSIDE PUBLIC RIGHTS-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED. MAINTAIN A MINIMUM OF 3'-FEET OF COVER OVER ALL PROPOSED WATER, WASTEWATER AND RECLAIMED WATER LINES. PLEASE REFER TO THE FOLLOWING SECTIONS FROM THE 2021 ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL (2021):
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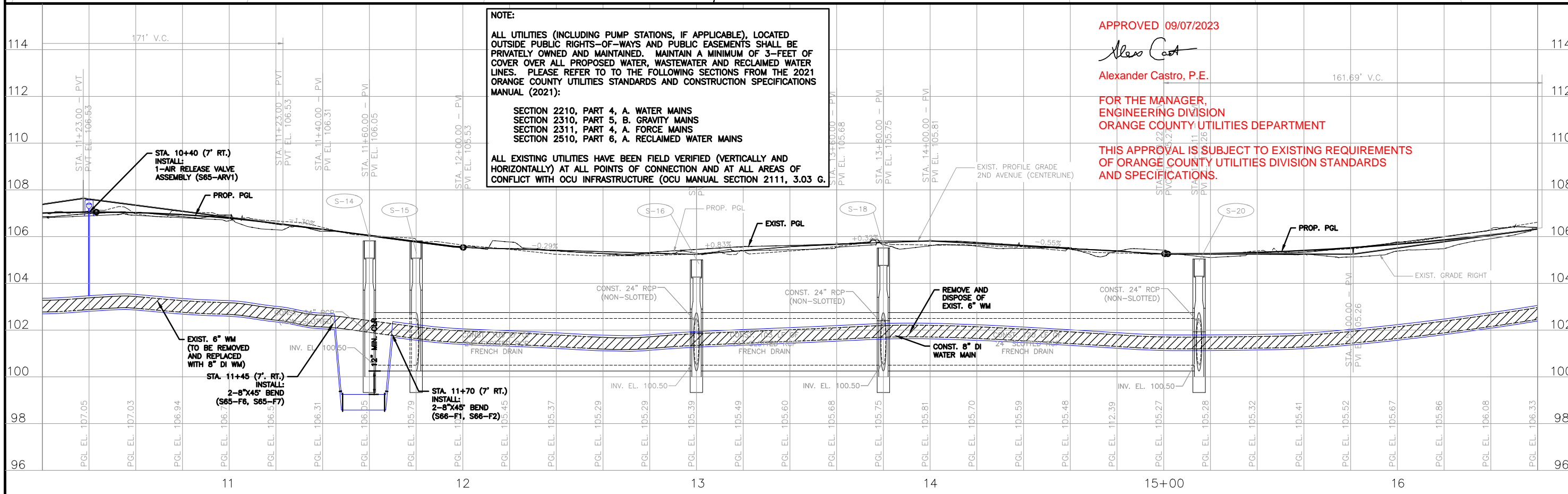
APPROVED 09/07/2023

Alex Castro

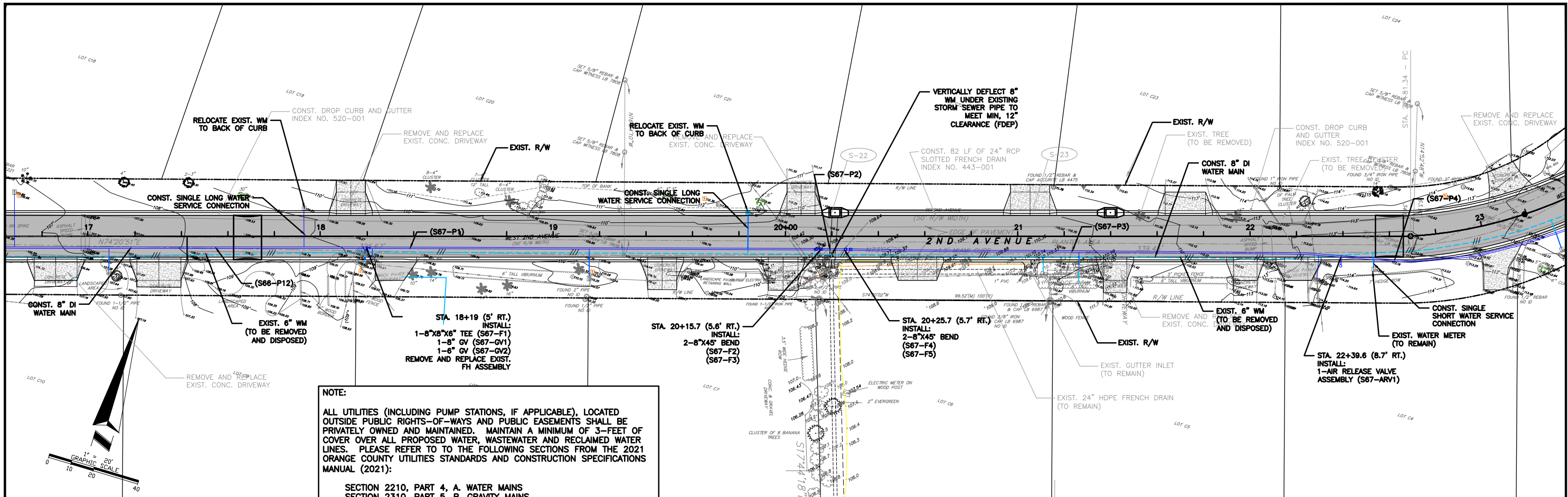
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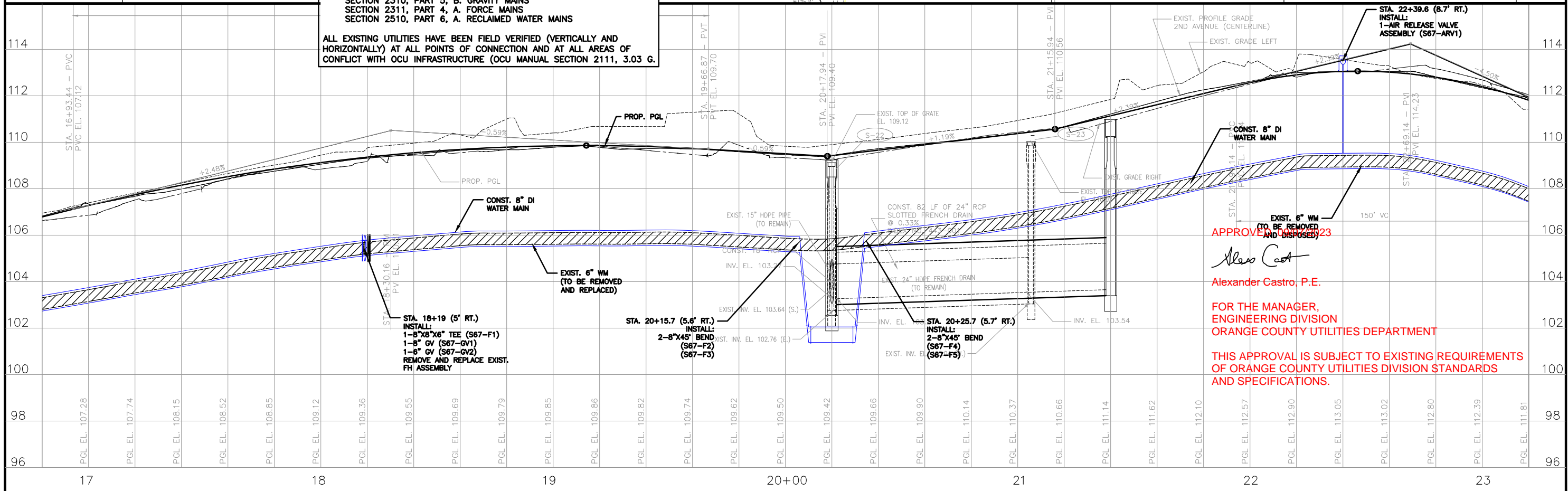
<table border="1"> <tr><td>REV.</td><td>DATE</td><td>DESCRIPTION</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		REV.	DATE	DESCRIPTION										<table border="1"> <tr><td>SIGN OFF</td><td>DATE</td></tr> <tr><td>CLIENT</td><td> </td></tr> <tr><td>PM/CM BC</td><td> </td></tr> <tr><td>PM/CM DM</td><td> </td></tr> <tr><td>PM</td><td> </td></tr> <tr><td>CM</td><td> </td></tr> <tr><td>APP'D BY</td><td>OTHERS</td></tr> </table>		SIGN OFF	DATE	CLIENT		PM/CM BC		PM/CM DM		PM		CM		APP'D BY	OTHERS	<table border="1"> <tr><td>FIELD:</td><td>PEC SURVEYING AND MAPPING, LLC</td></tr> <tr><td>DRAWN BY:</td><td>CADD</td></tr> <tr><td>DESIGNED BY:</td><td>MBG</td></tr> <tr><td>CHECKED BY:</td><td>MBG</td></tr> <tr><td>DATE:</td><td>MARCH 2023</td></tr> </table>		FIELD:	PEC SURVEYING AND MAPPING, LLC	DRAWN BY:	CADD	DESIGNED BY:	MBG	CHECKED BY:	MBG	DATE:	MARCH 2023	<p>MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC 3222 Corrine Drive, Suite H Orlando, Florida 32803 CERTIFICATE OF AUTHORIZATION NO. 29032</p>		<p>ORANGE COUNTY UTILITIES DEPARTMENT 9150 CURRY FORD ROAD ORLANDO, FLORIDA 32825 (407) 254-9900</p>		<table border="1"> <tr><td>JOB No.</td><td>TOW-052.01.000</td></tr> <tr><td>FILE NAME:</td><td>SEE LEFT MARGIN</td></tr> <tr><td>ARCHIVE DISC:</td><td> </td></tr> <tr><td>SCALE:</td><td>HORIZ. = 1"=20' VERT. = 1"=2'</td></tr> </table>		JOB No.	TOW-052.01.000	FILE NAME:	SEE LEFT MARGIN	ARCHIVE DISC:		SCALE:	HORIZ. = 1"=20' VERT. = 1"=2'	<p>WATER MAIN PLAN AND PROFILE W. SECOND AVENUE</p>		<p>DRWG. SHEET 66 OF 86</p>	
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ALL EXISTING UTILITIES HAVE BEEN FIELD VERIFIED (VERTICALLY AND HORIZONTALLY) AT ALL POINTS OF CONNECTION AND AT ALL AREAS OF CONFLICT WITH OCU INFRASTRUCTURE (OCU MANUAL SECTION 2111, 3.03 G.



APPROVED AND DISPOSED

Alex Castro
 Alexander Castro, P.E.

FOR THE MANAGER,
 ENGINEERING DIVISION
 ORANGE COUNTY UTILITIES DEPARTMENT

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CM		DATE: MARCH 2023

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC

3222 Corrine Drive, Suite H
 Orlando, Florida 32803
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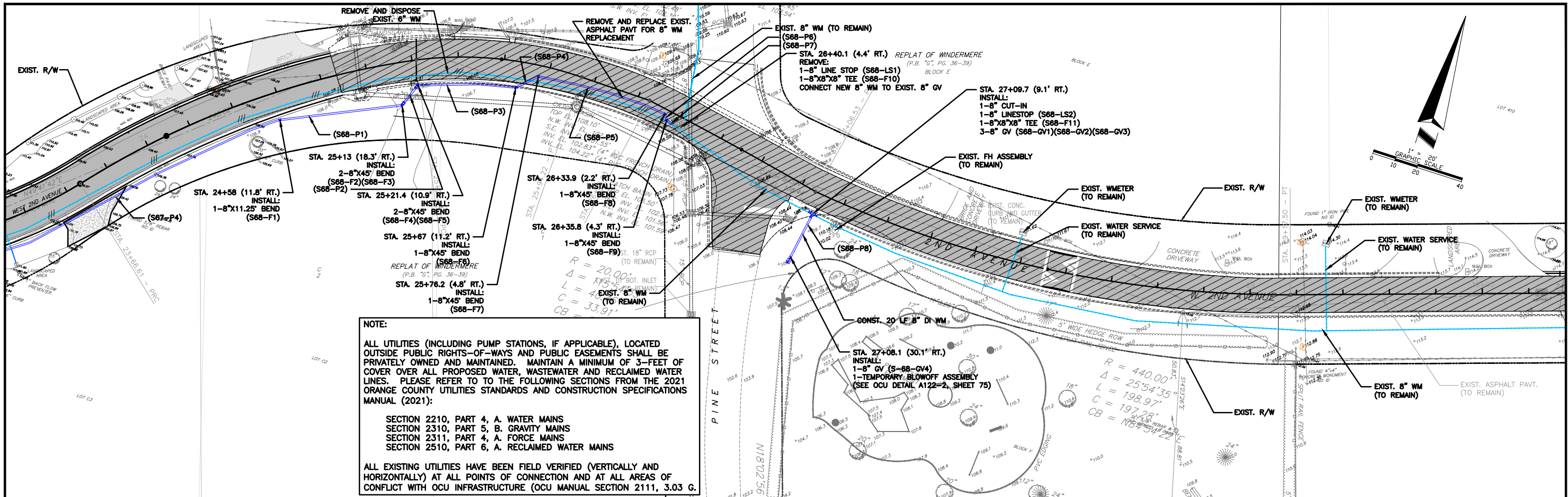
407/493-9983

TOWN OF WINDERMERE
 PUBLIC WORKS DEPARTMENT
 614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-052.01.000
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 SCALE: HORIZ. = 1"=20'
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**PLAN AND PROFILE
 W. SECOND AVENUE**

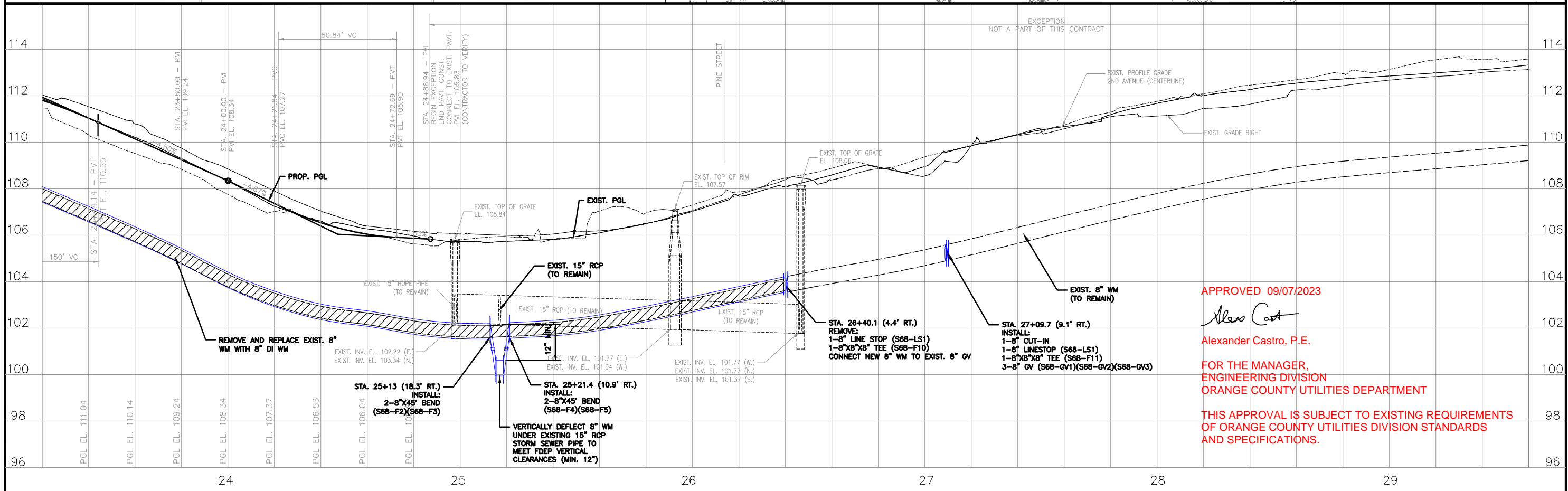
DRWG. SHEET 67 OF 86



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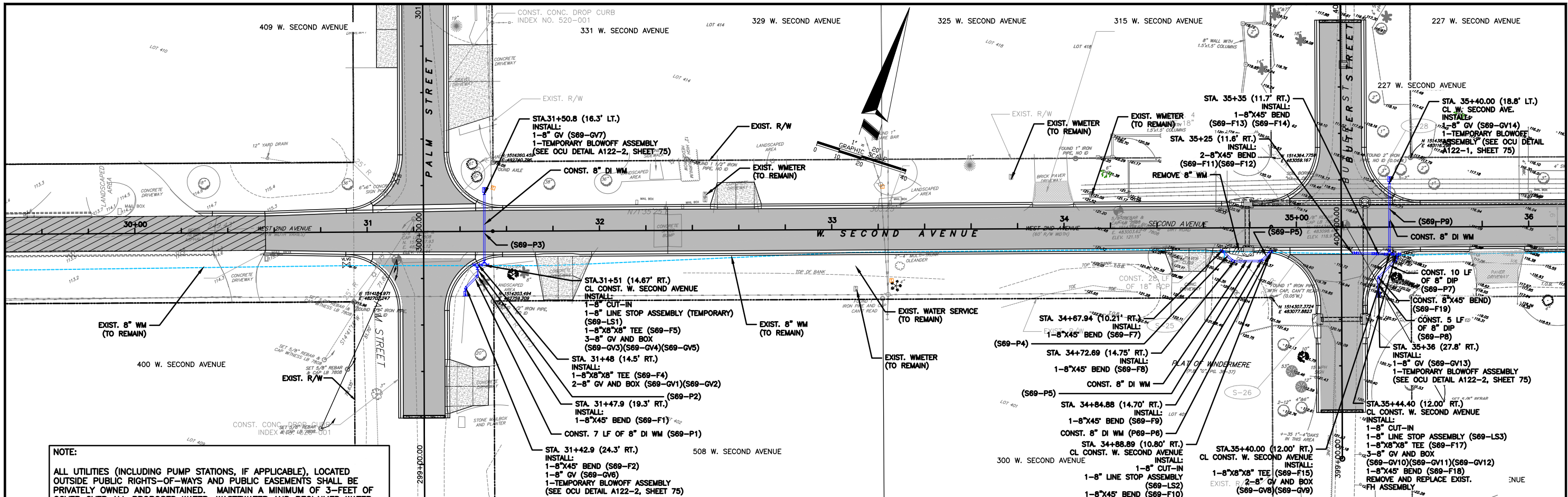
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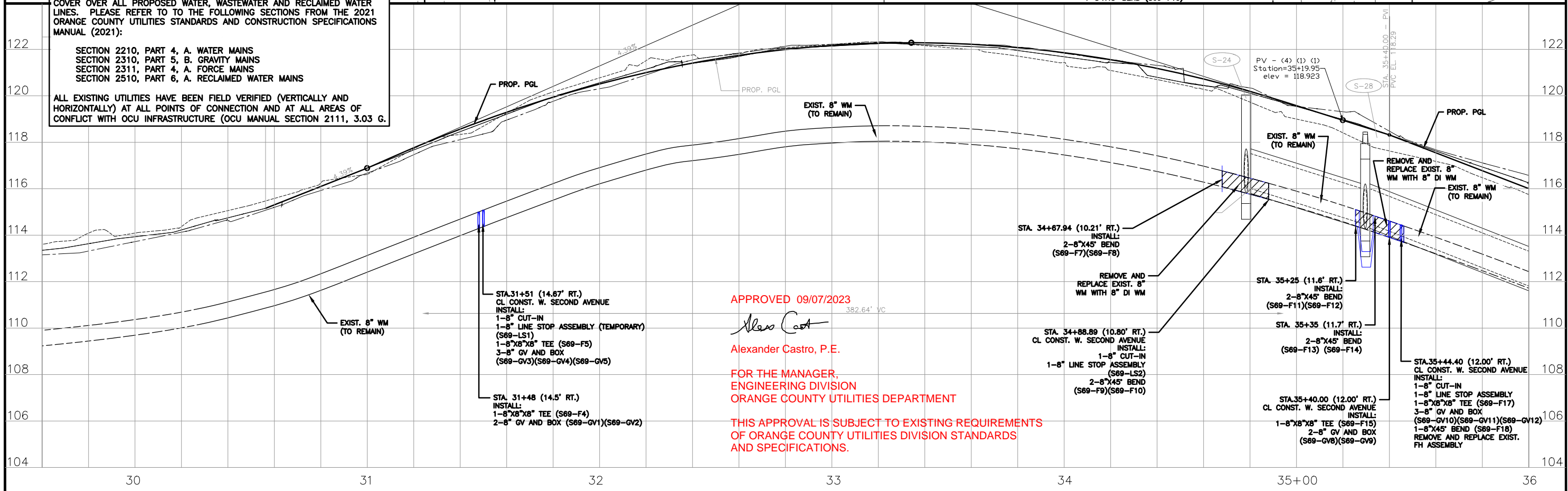


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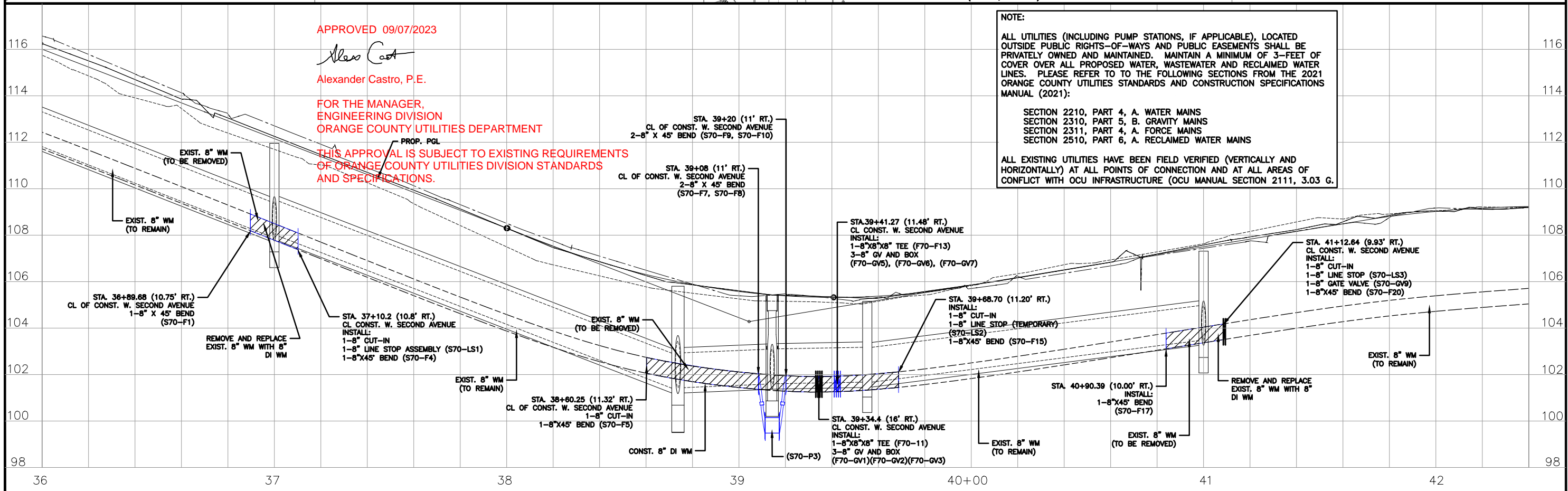
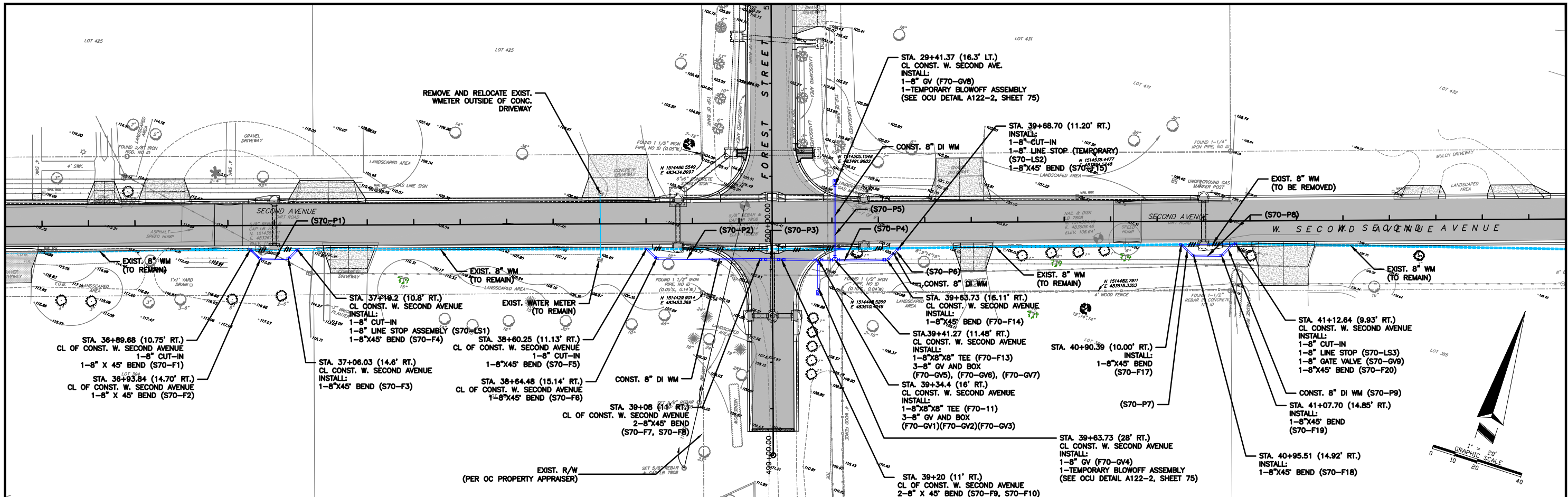
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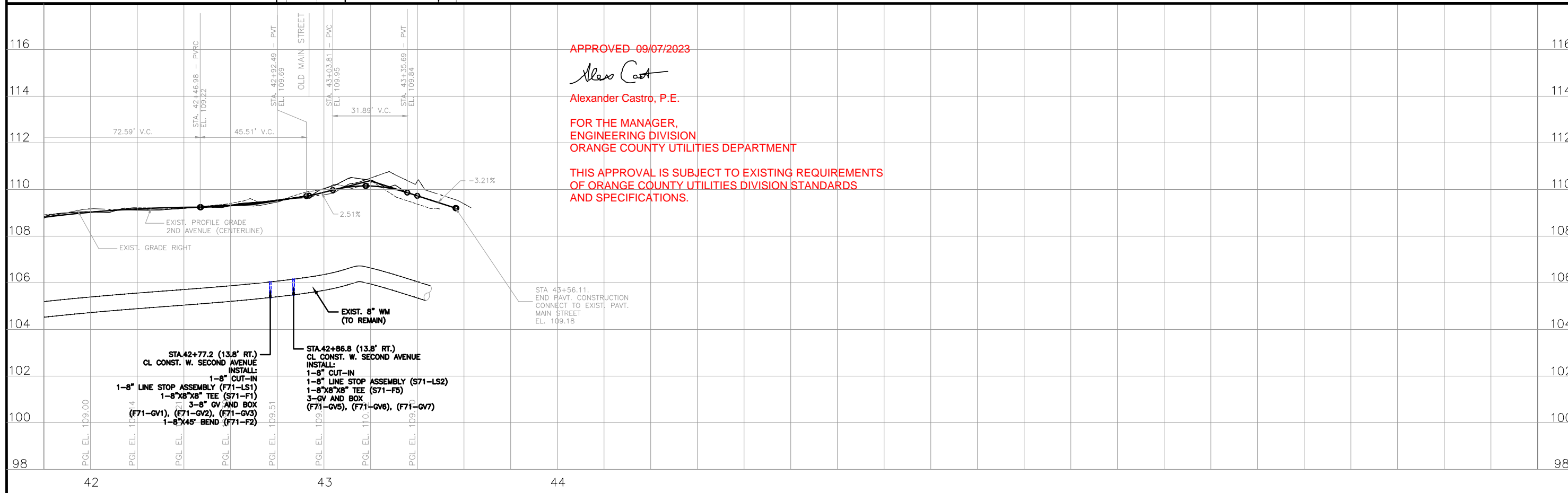
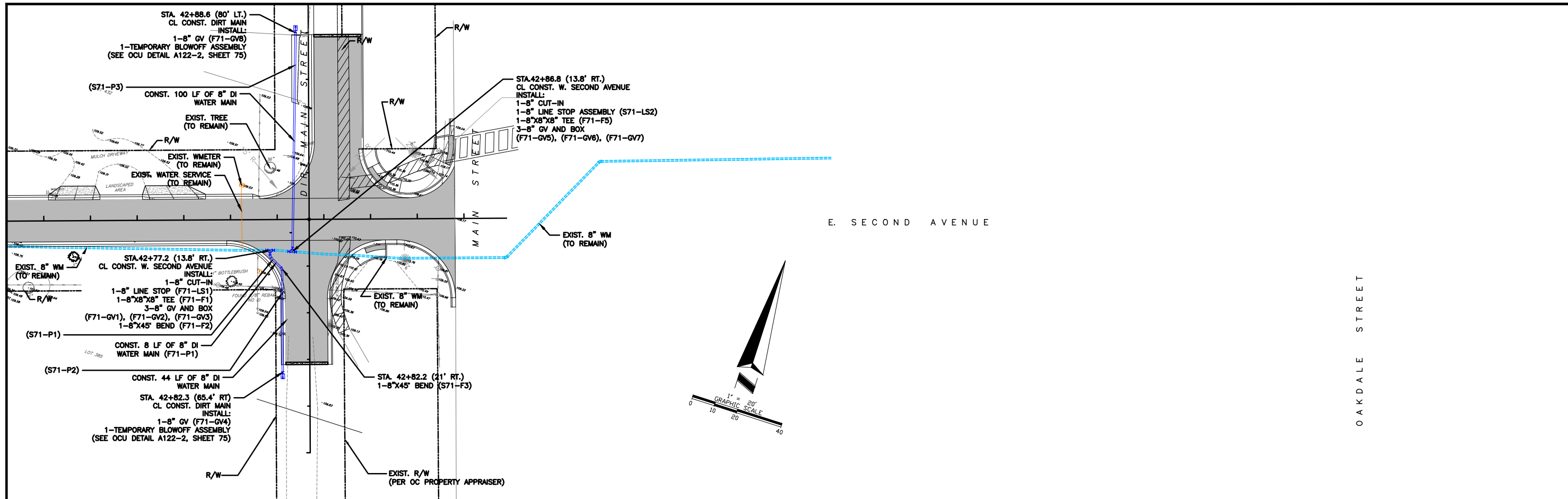


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				OTHERS			MARCH 2023



APPROVED 09/07/2023

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REV.	DATE	DESCRIPTION	APP'D BY
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MGEC MICHAEL GALURA
ENGINEERING
CONSULTANTS, LLC

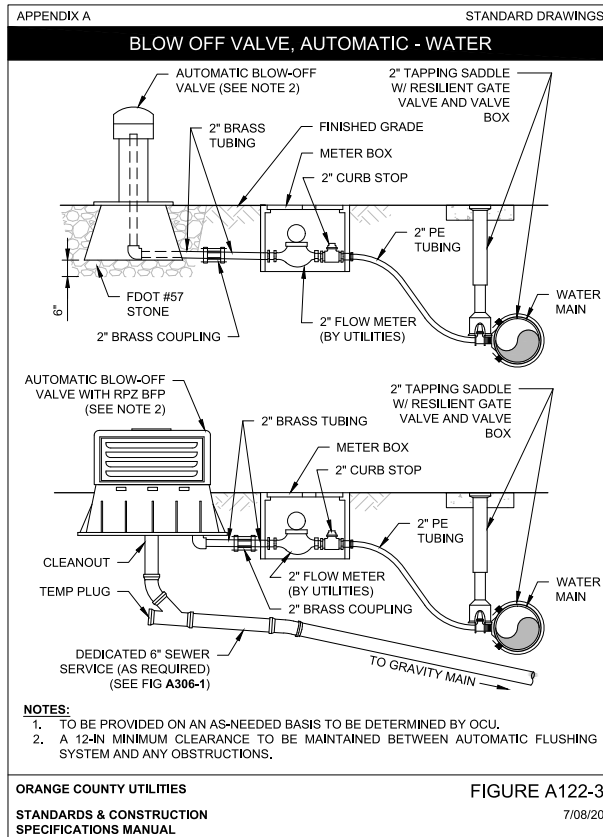
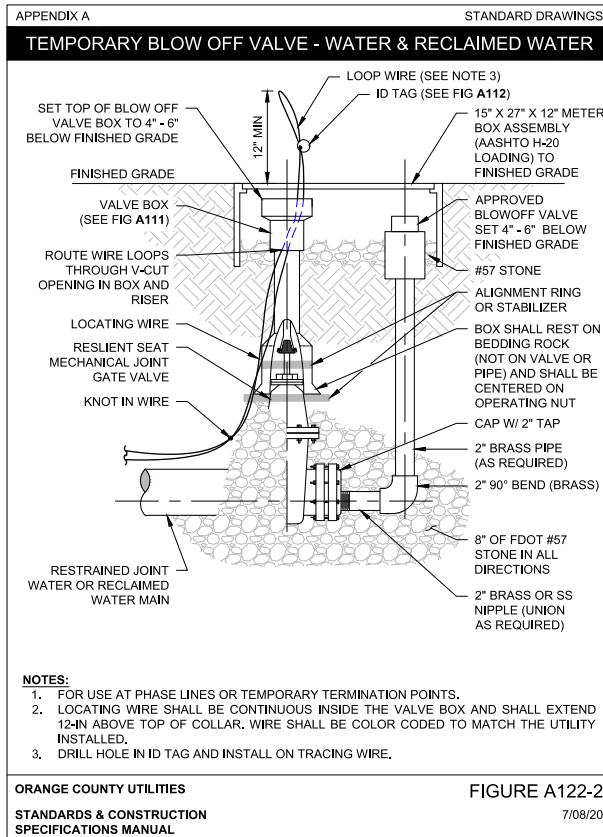
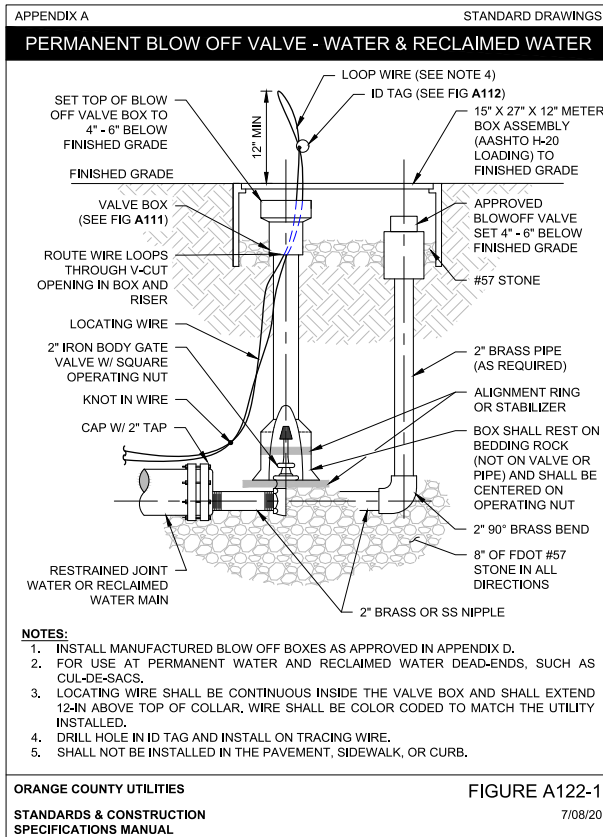
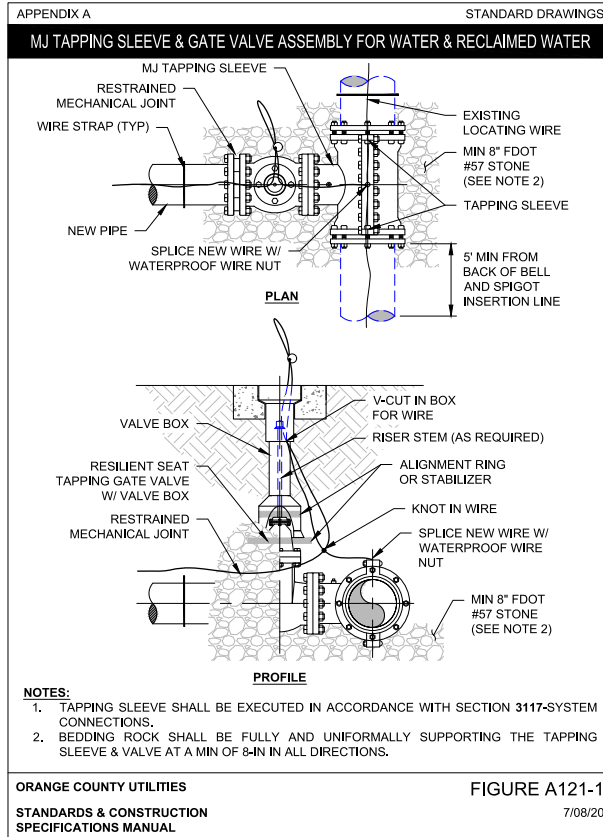
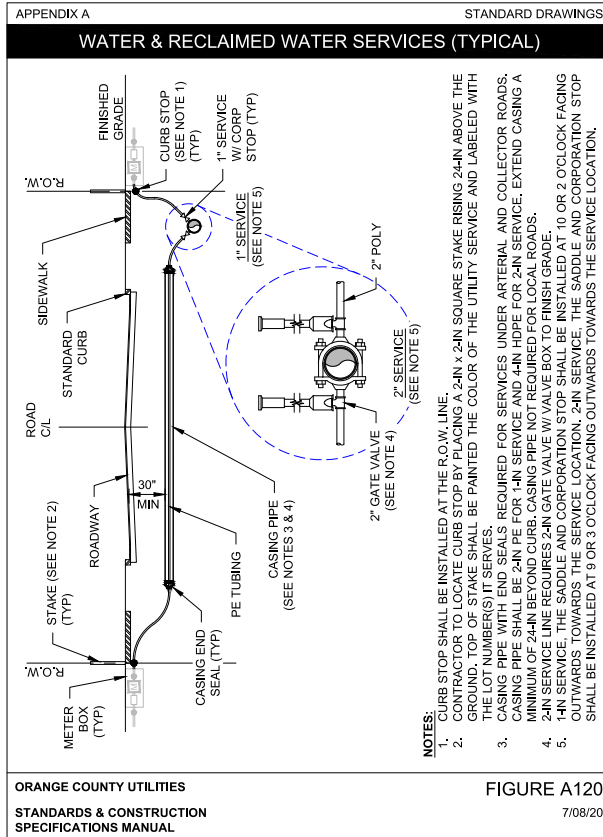
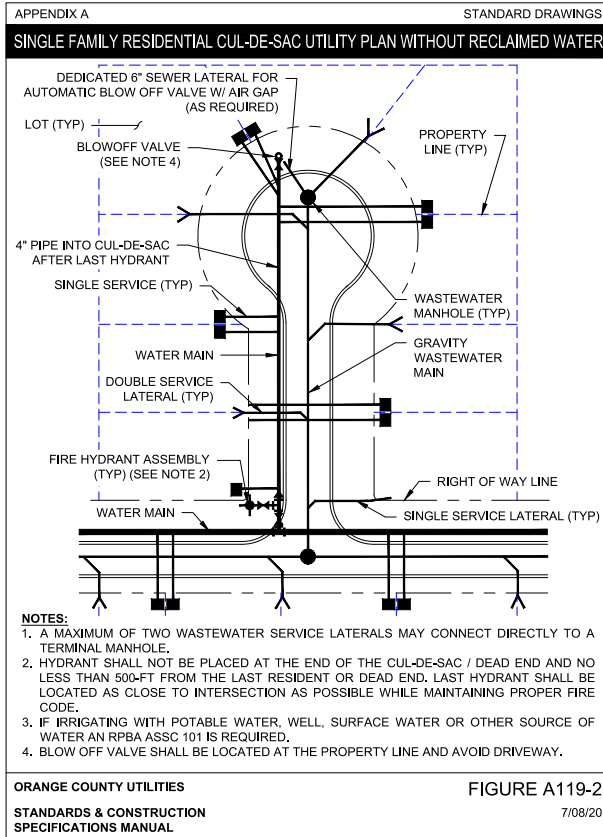
3222 Corrine Drive, Suite H
Orlando, Florida 32803 407/493-9983
CERTIFICATE OF AUTHORIZATION NO. 29032

FIELD:
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DRAWN BY: CADD
DESIGNED BY: MBG
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TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786



JOB No. TOW-052.01.000	WATER MAIN PLAN AND PROFILE W. SECOND AVENUE
FILE NAME: SEE LEFT MARGIN	
ARCHIVE DISC:	
SCALE: HORIZ. = 1"=20' VERT. = 1"=2'	DRWG.
	SHEET 71 OF 86



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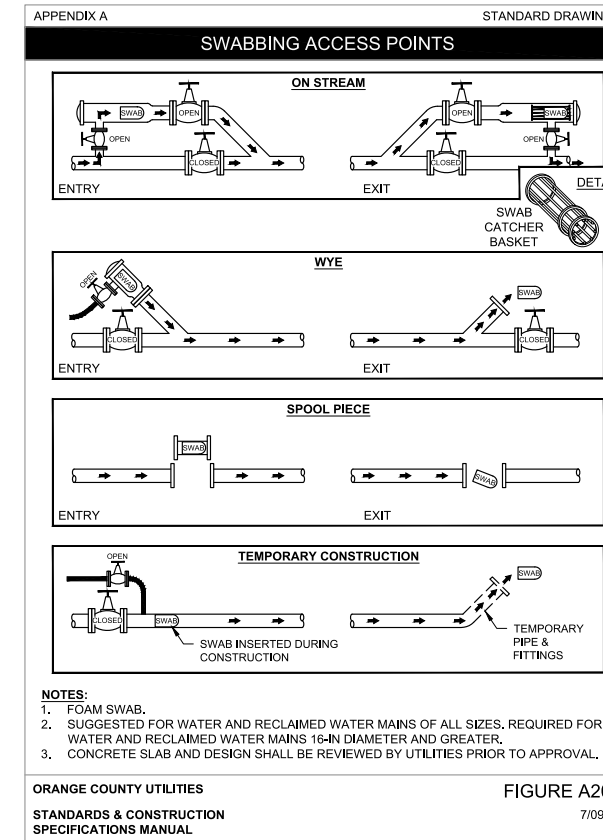
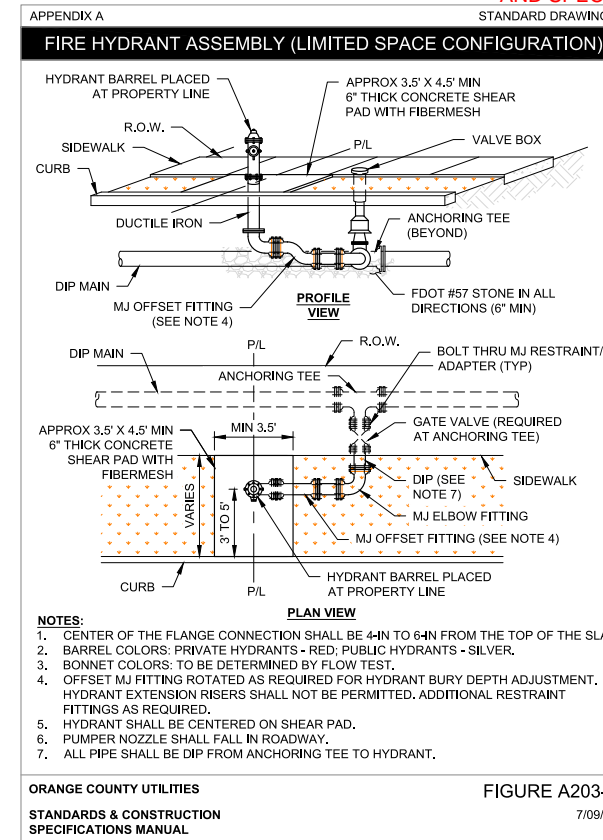
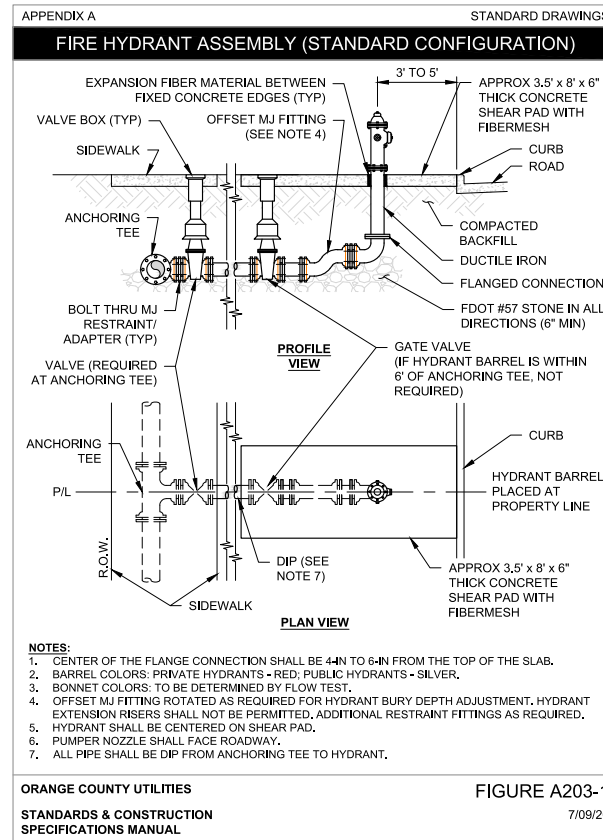
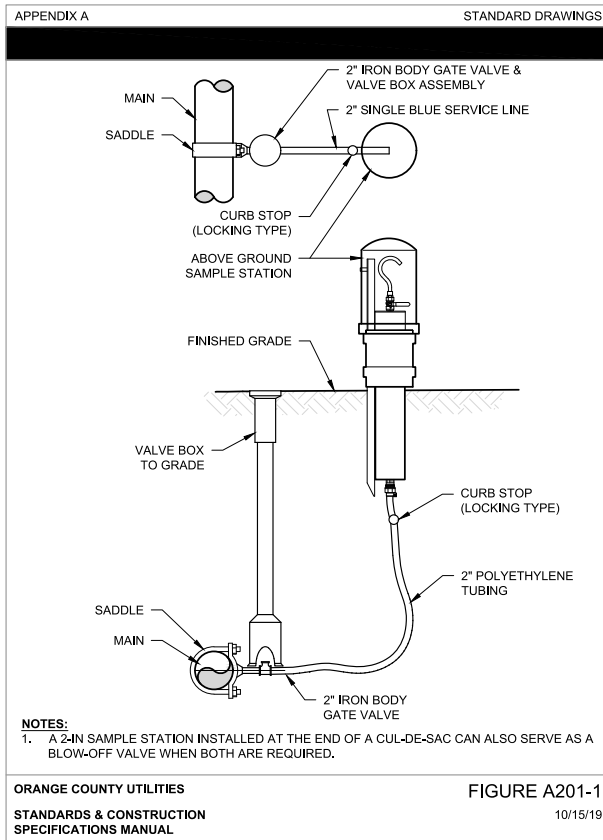
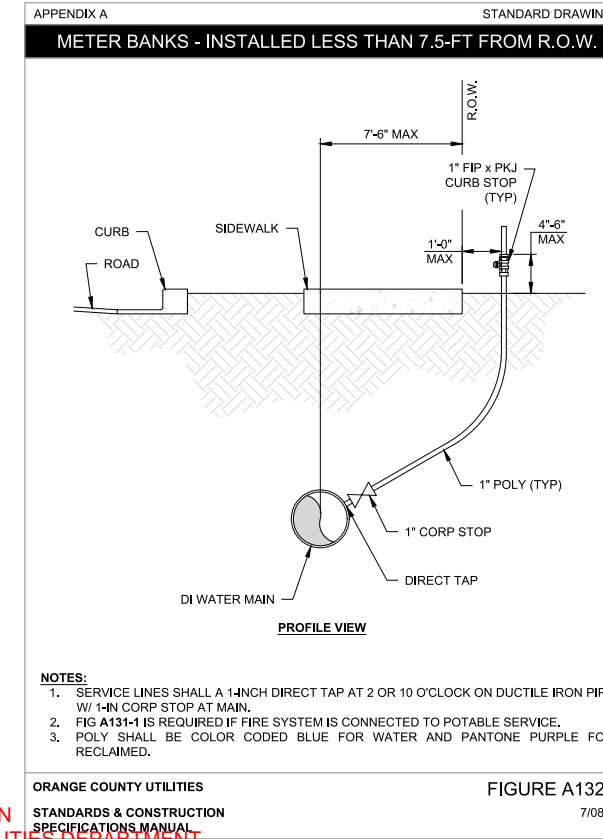
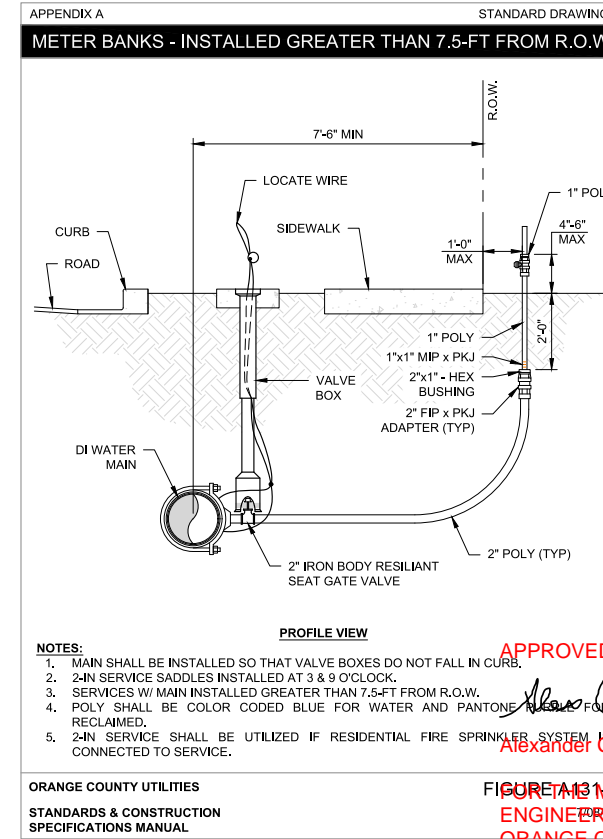
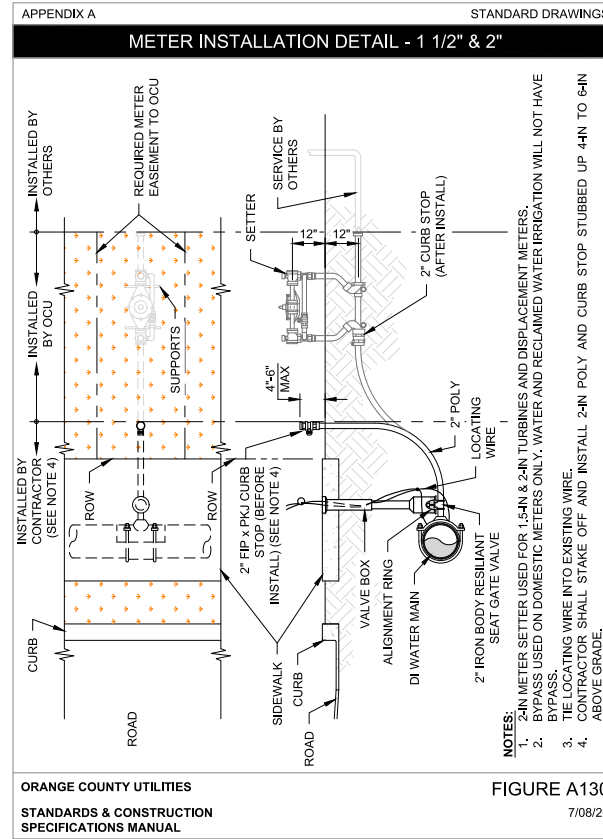
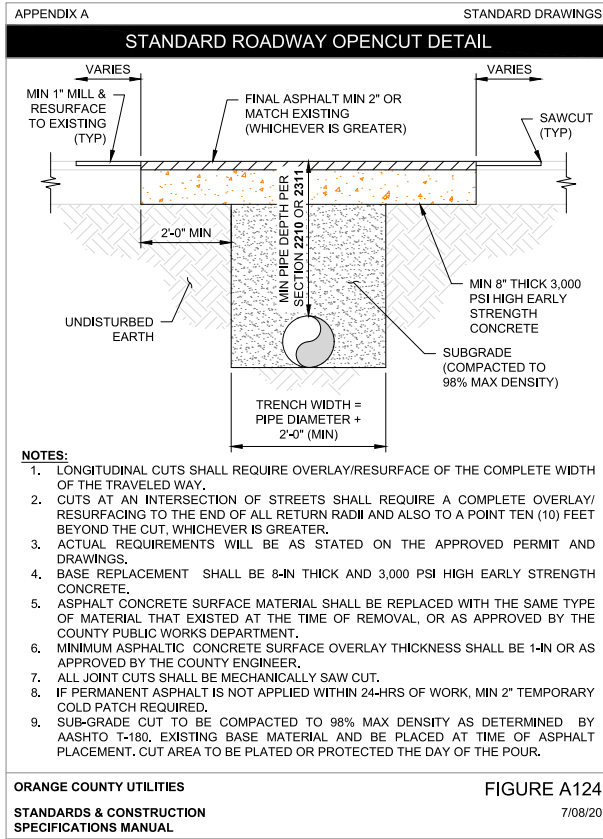
Alex Castro

Alexander Castro, P.E.

FOR THE MANAGER,
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ORANGE COUNTY UTILITIES DEPARTMENT

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				CM		DATE: MARCH 2023			DRWG.	
										SHEET 75 OF 86



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ORANGE COUNTY UTILITIES DEPARTMENT

9150 CURRY FORD ROAD
ORLANDO, FLORIDA 32825
(407) 254-9900

JOB No. TOW-052.01.000

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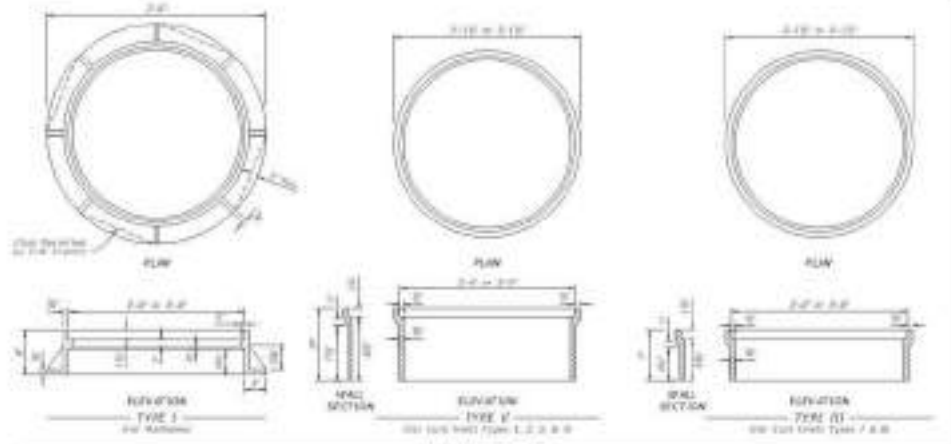
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STANDARD DETAILS

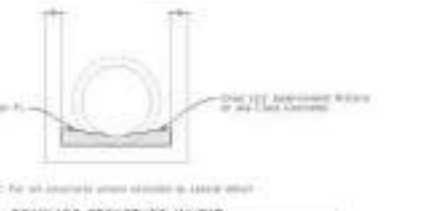
DRWG. SHEET 76 OF 86

Type	3.0' DIAMETER	3.0' DIA. x 2.0' DEPTH
1	100	150
2	100	150
3	100	150
4	100	150
5	100	150
6	100	150
7	100	150
8	100	150
9	100	150
10	100	150

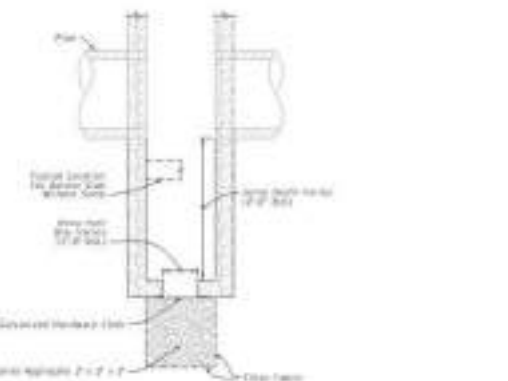
NOTE:
1. Refer to Table 1 for casting weights.



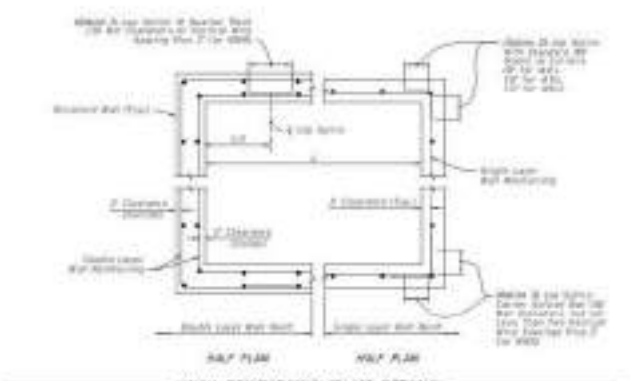
NOTES:
1. Use cast in-place concrete for manhole frames.
2. Refer to Table 1 for casting weights.
3. Manhole top shall be 2" above finished ground surface.
4. Cast concrete shall be finished to a true surface.
5. Refer to Table 1 for casting weights.
6. Refer to Table 1 for casting weights.



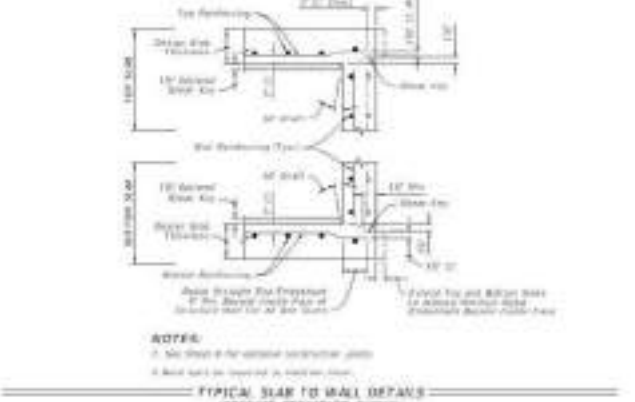
Drainage Structure Invert



Sump Bottom



Wall Reinforcing Splice Details

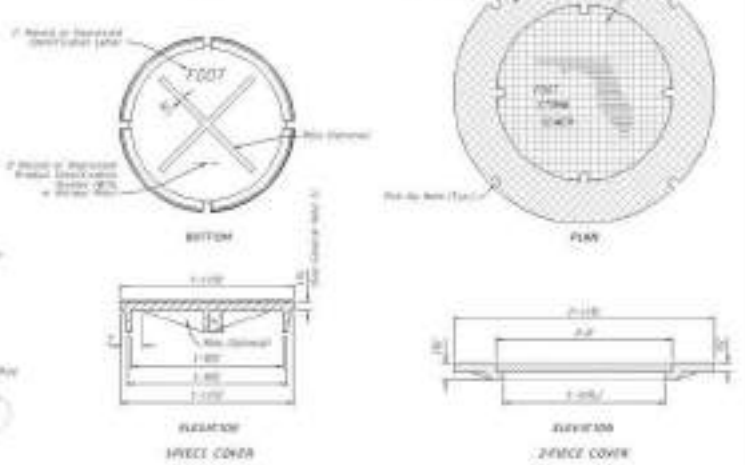
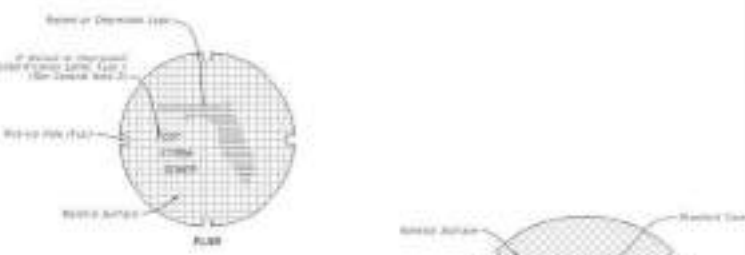


Typical Slab to Wall Details (Precast Structure Details)

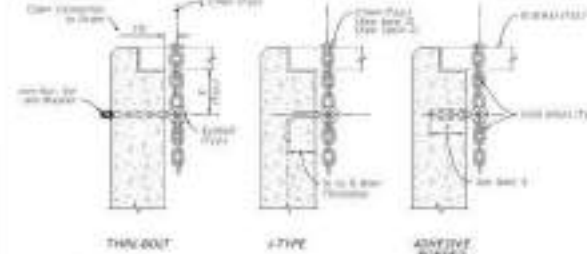
NOTES:
1. Cast concrete shall be finished to a true surface.
2. Refer to Table 1 for casting weights.
3. Cast concrete shall be finished to a true surface.

GENERAL NOTES:
1. Cast in-place concrete shall be finished to a true surface.
2. Refer to Table 1 for casting weights.
3. Cast concrete shall be finished to a true surface.
4. Cast concrete shall be finished to a true surface.

Sheet	Description
1	General Notes, Details, Manhole Frames, and Manhole Tops
2	Manhole Frames and Manhole Tops
3	Manhole Frames and Manhole Tops
4	Manhole Frames and Manhole Tops
5	Manhole Frames and Manhole Tops
6	Manhole Frames and Manhole Tops
7	Manhole Frames and Manhole Tops
8	Manhole Frames and Manhole Tops



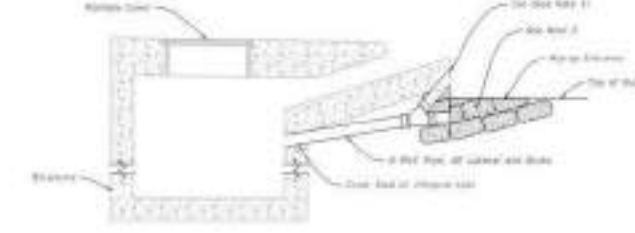
Manhole Covers



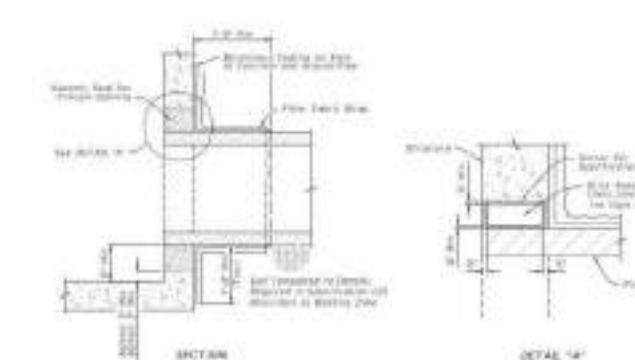
Locking Grates to Inlets

Model	Eye Bolt	Chain	Length of Chain	Working & Reserve
425-001	3/4"	3/4"	3'-6"	1200 lb
425-002	1/2"	1/2"	3'-0"	600 lb
425-003	3/8"	3/8"	2'-6"	300 lb
425-004	1/4"	1/4"	2'-0"	150 lb
425-005	3/16"	3/16"	1'-6"	75 lb
425-006	1/8"	1/8"	1'-0"	37.5 lb
425-007	3/32"	3/32"	0'-6"	18.75 lb
425-008	1/16"	1/16"	0'-0"	9.375 lb

Table 2 Eyebolt and Chain Requirements



Elbow and Base Temporary Drains



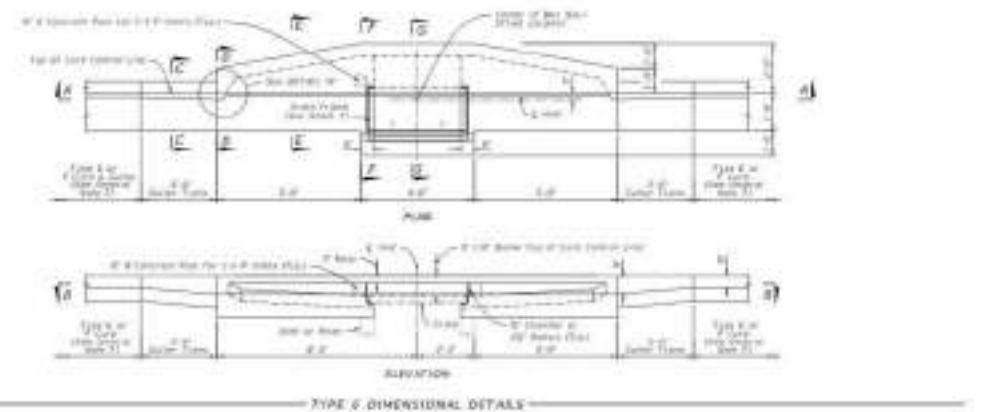
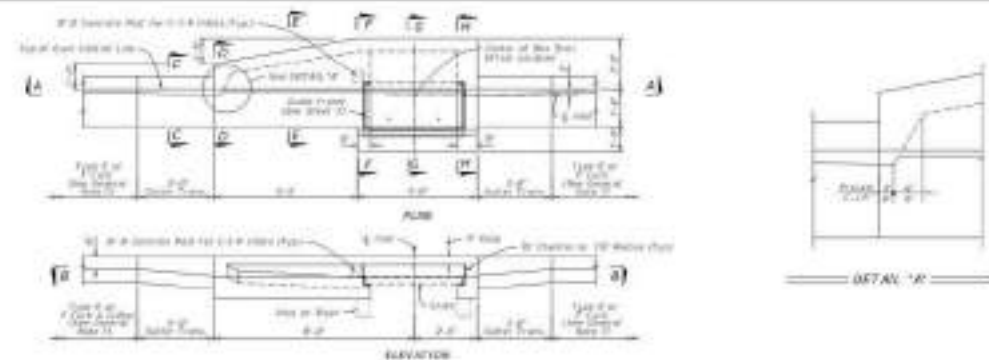
Pipe to Structure Filter Fabric Wrap

SIGN OFF:	DATE:	FIELD:
CLIENT:		PEC SURVEYING AND MAPPING, LLC
PM/CM BC:		DRAWN BY: R.MBG
PM/CM DM:		DESIGNED BY: R.MBG
CM:		CHECKED BY: C.MRD
APP'D BY:	DATE: NOVEMBER 2023	

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 Corrine Drive, Suite H Orlando, Florida 32803 407/493-9983
CERTIFICATE OF AUTHORIZATION NO. 29032

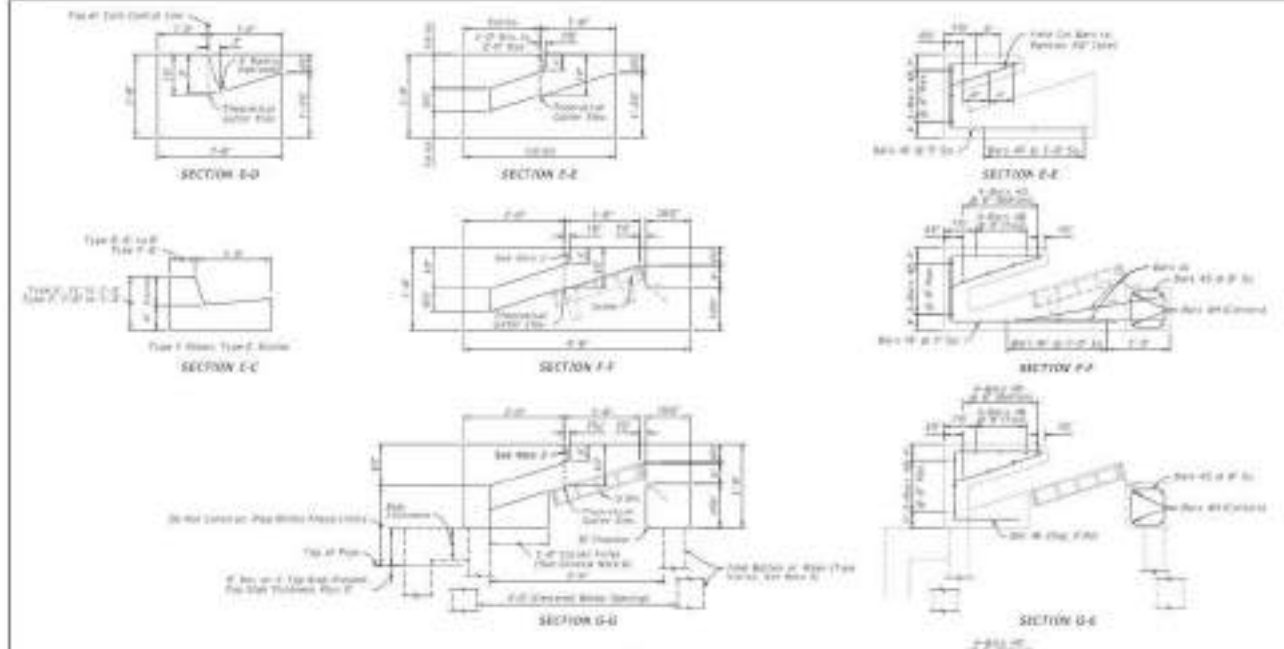
TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-052.01.000	STANDARD DETAILS INDEX NO. 425-001
FILE NAME: SEE LEFT MARGIN	
ARCHIVE DISC:	
SCALE: AS NOTED	
DRWG.	SHEET 79 OF 86



TYPE 5 AND 6 DIMENSIONAL DETAILS

DATE REVISION	DESCRIPTION	FDOT	FY 2021-22 STANDARD PLANS	CURB INLET TOP TYPES 5 AND 6	NO. 425-021	SHEET 2 of 7
2/03/20						



- NOTES
1. For details of dimensions see the side view.
 2. Reinforcing steel shall be placed in accordance with the notes and the notes on the drawings.
 3. See Notes on Reinforcing Steel.

PRECAST DIMENSIONAL AND REINFORCING DETAILS

DATE REVISION	DESCRIPTION	FDOT	FY 2021-22 STANDARD PLANS	CURB INLET TOP TYPES 5 AND 6	NO. 425-021	SHEET 4 of 7
2/03/20						

GENERAL NOTES

1. Verify that inlet size meets minimum and maximum limits.
2. Construct the finished grade and slope of the inlet top and (2) finished curb slope and width of the concrete sidewalk as shown.
3. The inlet shall be constructed on a concrete base on the job or otherwise the subgrade shall be prepared as shown.
4. Reinforcing steel shall be placed in accordance with the notes and the notes on the drawings.
5. Reinforcing steel shall be placed in accordance with the notes and the notes on the drawings.
6. Reinforcing steel shall be placed in accordance with the notes and the notes on the drawings.
7. The Type 5 curb and gutter shall be installed on the curb and gutter subgrade as shown in the notes on the drawings.
8. Reinforcing steel shall be placed in accordance with the notes and the notes on the drawings.
9. Reinforcing steel shall be placed in accordance with the notes and the notes on the drawings.

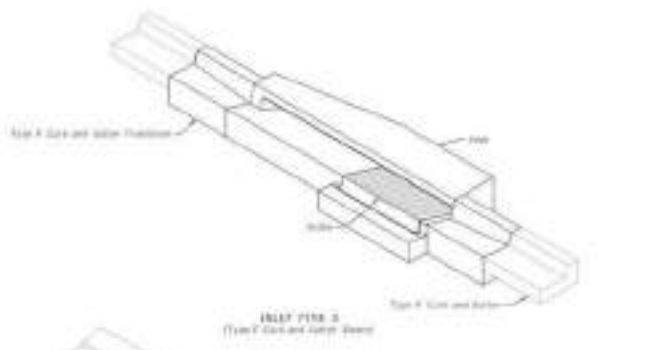
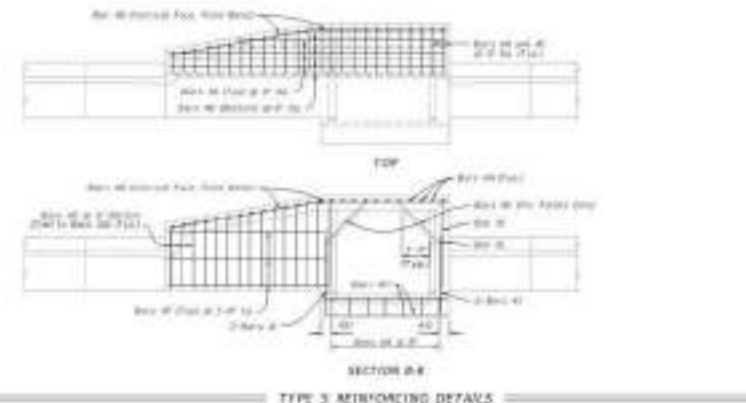


TABLE OF CONTENTS:

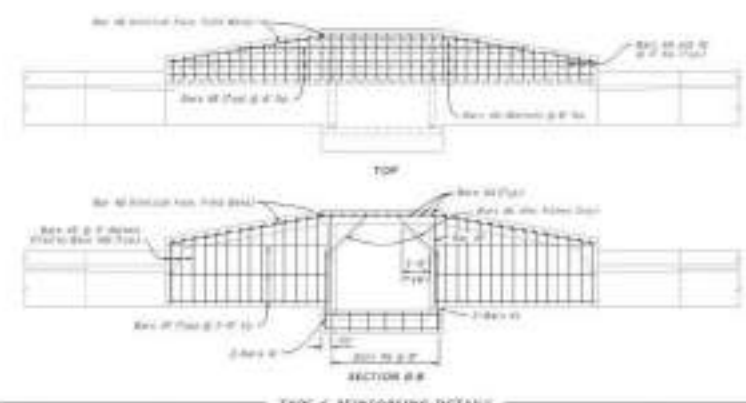
Sheet	Description
1	General Notes and Symbols
2	Type 5 and 6 Dimensional Details
3	Type 5 and 6 Reinforcing and Bar Bending Details
4	Reinforcing and Bar Bending Details
5	Cast to Place Dimensional and Reinforcing Details
6	Standard Street to Reinforcing (SBR) Details
7	Curb, Inlet, and Gutter Details

CURB INLET TOP TYPES 5 AND 6

DATE REVISION	DESCRIPTION	FDOT	FY 2021-22 STANDARD PLANS	CURB INLET TOP TYPES 5 AND 6	NO. 425-021	SHEET 1 of 7
2/03/20						



TYPE 5 REINFORCING DETAILS



TYPE 6 REINFORCING DETAILS

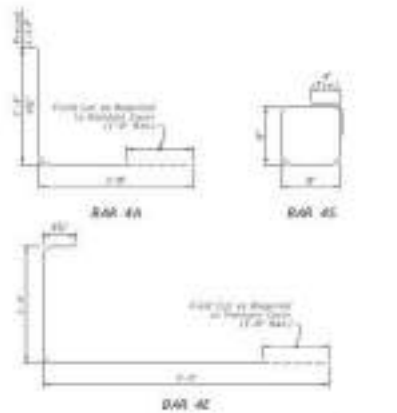


TABLE OF REINFORCING STEEL:

Bar	Size	Grade	Length	Quantity	Weight
1	4	60	12'-0"	10	100.0
2	4	60	12'-0"	10	100.0
3	4	60	12'-0"	10	100.0
4	4	60	12'-0"	10	100.0
5	4	60	12'-0"	10	100.0
6	4	60	12'-0"	10	100.0
7	4	60	12'-0"	10	100.0
8	4	60	12'-0"	10	100.0
9	4	60	12'-0"	10	100.0
10	4	60	12'-0"	10	100.0
11	4	60	12'-0"	10	100.0
12	4	60	12'-0"	10	100.0
13	4	60	12'-0"	10	100.0
14	4	60	12'-0"	10	100.0
15	4	60	12'-0"	10	100.0
16	4	60	12'-0"	10	100.0
17	4	60	12'-0"	10	100.0
18	4	60	12'-0"	10	100.0
19	4	60	12'-0"	10	100.0
20	4	60	12'-0"	10	100.0

- NOTES
1. All bar dimensions in the drawings shall be in feet and inches.
 2. Reinforcing steel shall be placed in accordance with the notes and the notes on the drawings.
 3. Reinforcing steel shall be placed in accordance with the notes and the notes on the drawings.

TYPE 5 AND 6 REINFORCING AND BAR BENDING DETAILS

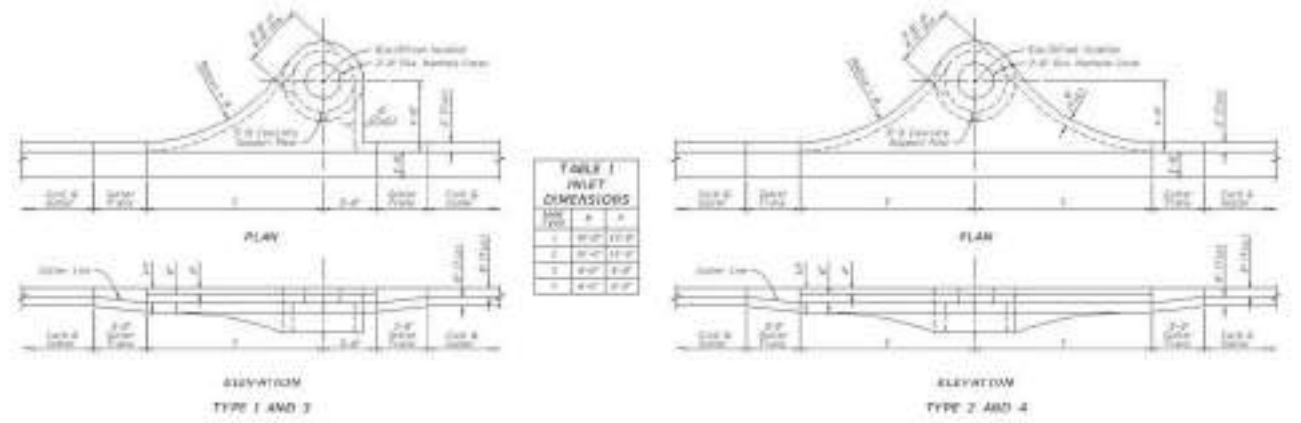
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2/03/20						

REV.	DATE	DESCRIPTION	APP'D BY	OTHERS	SIGN OFF	DATE	FIELD:
					CLIENT		PEC SURVEYING AND MAPPING, LLC
					PM/CM BC		DRAWN BY: R.MBG
					PM/CM DM		DESIGNED BY: R.MBG
					PM		CHECKED BY: G.MRG
					CM		DATE: NOVEMBER 2023

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 Orlando, Florida 32803 407/493-9983
 CERTIFICATE OF AUTHORIZATION NO. 29032

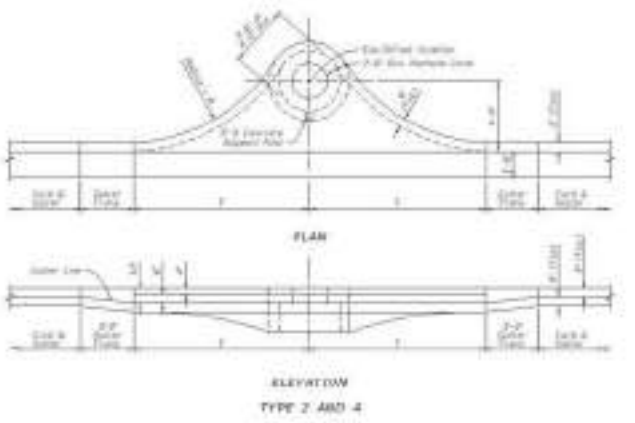
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 614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-052.01.000	STANDARD DETAILS INDEX NO. 425-020
FILE NAME: SEE LEFT MARGIN	DRWG. SHEET 81 OF 86
ARCHIVE DISC:	
SCALE: AS NOTED	

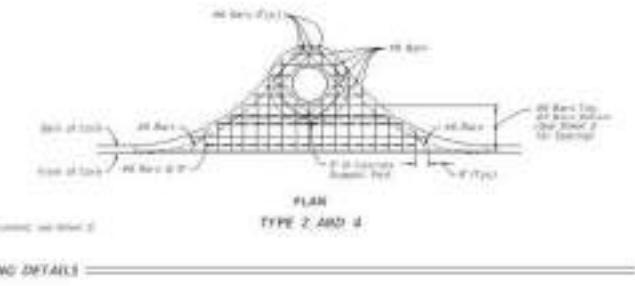


**TABLE 1
INLET
DIMENSIONS**

TYPE	W	L	H
1	30" (7.62m)	12" (3.05m)	4" (101.6mm)
2	30" (7.62m)	12" (3.05m)	4" (101.6mm)
3	30" (7.62m)	12" (3.05m)	4" (101.6mm)
4	30" (7.62m)	12" (3.05m)	4" (101.6mm)



NOTE:
NO REINFORCEMENT FOR TYPE 2

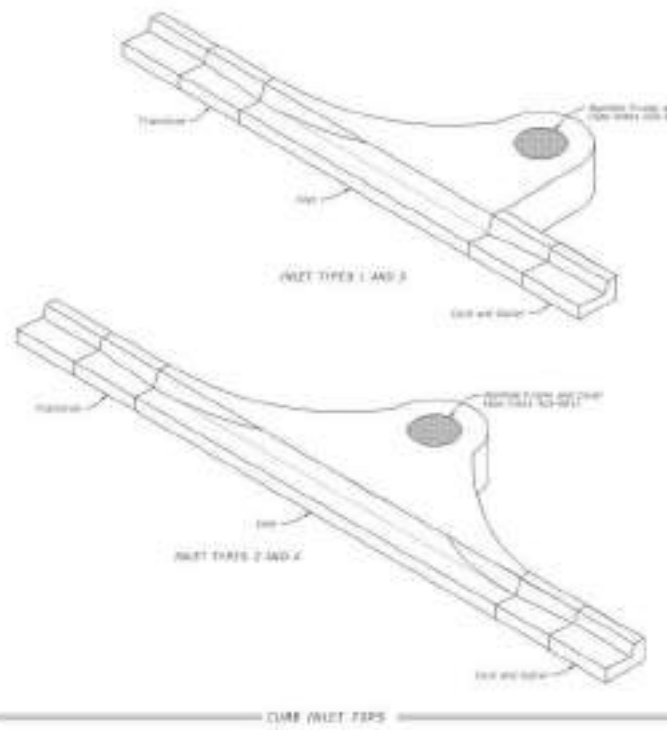


TOP DIMENSIONAL AND TOP REINFORCING DETAILS

DATE: 2/03/20	DESCRIPTION:	FY 2021-22 STANDARD PLANS	CURB INLET TOP TYPES 1, 2, 3, AND 4	NO. 425-020	SHEET 2 of 3
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- GENERAL NOTES**
1. Refer to the notes on the sheets 425-020 and 425-021.
 2. Confirm finished grades and elevations at the curb. Refer to the standard notes for the details and grades of the adjacent roadway.
 3. Provide (2) minimum curb for each inlet. The curb should be 4" high.
 4. The curb and gutter should be 4" high and 12" wide.
 5. The curb and gutter should be 4" high and 12" wide.
 6. These details are designed for use with standard curb and gutter. Refer to the notes on the sheets 425-020 and 425-021.
 7. Standard construction notes apply.



INLET TYPES 1 AND 3

INLET TYPES 2 AND 4

CURB INLET TYPES

TABLE OF CONTENTS

Sheet	Description
1	General Notes and Details
2	Top Dimensional and Reinforcing Details
3	Transverse Dimensional and Reinforcing Details

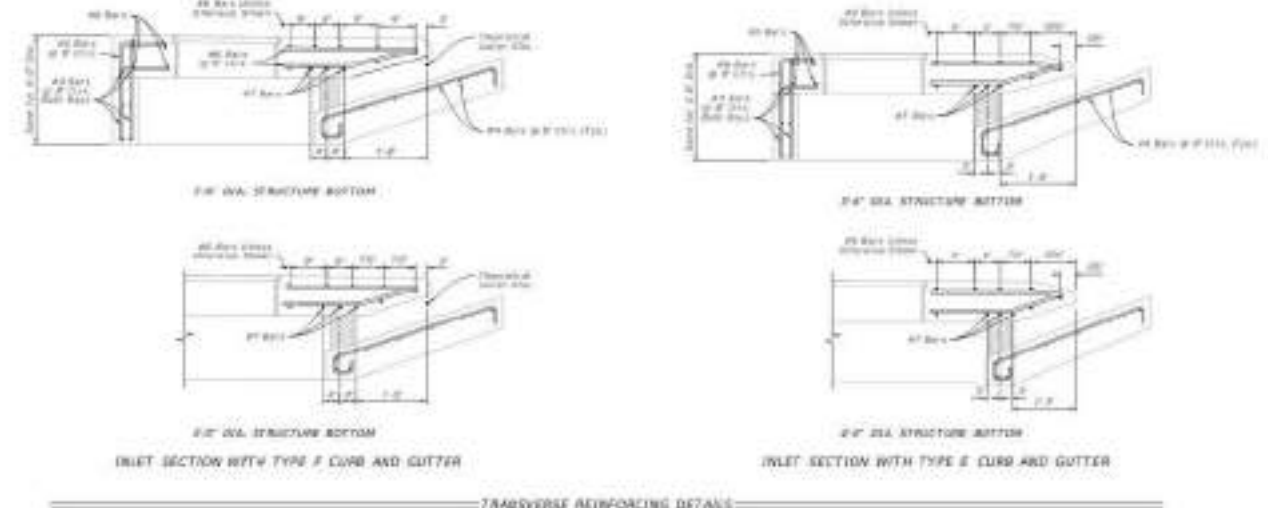
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INLET SECTION WITH TYPE F CURB AND GUTTER

INLET SECTION WITH TYPE E CURB AND GUTTER

TRANSVERSE DIMENSIONAL DETAILS



2" DIA. STRUCTURE BOTTOM

2" DIA. STRUCTURE BOTTOM

INLET SECTION WITH TYPE F CURB AND GUTTER

INLET SECTION WITH TYPE E CURB AND GUTTER

TRANSVERSE REINFORCING DETAILS

DATE: 2/03/20	DESCRIPTION:	FY 2021-22 STANDARD PLANS	CURB INLET TOP TYPES 1, 2, 3, AND 4	NO. 425-020	SHEET 3 of 3
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					PM/CM DM		DESIGNED BY: R.MBG
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					CM		DATE: NOVEMBER 2023

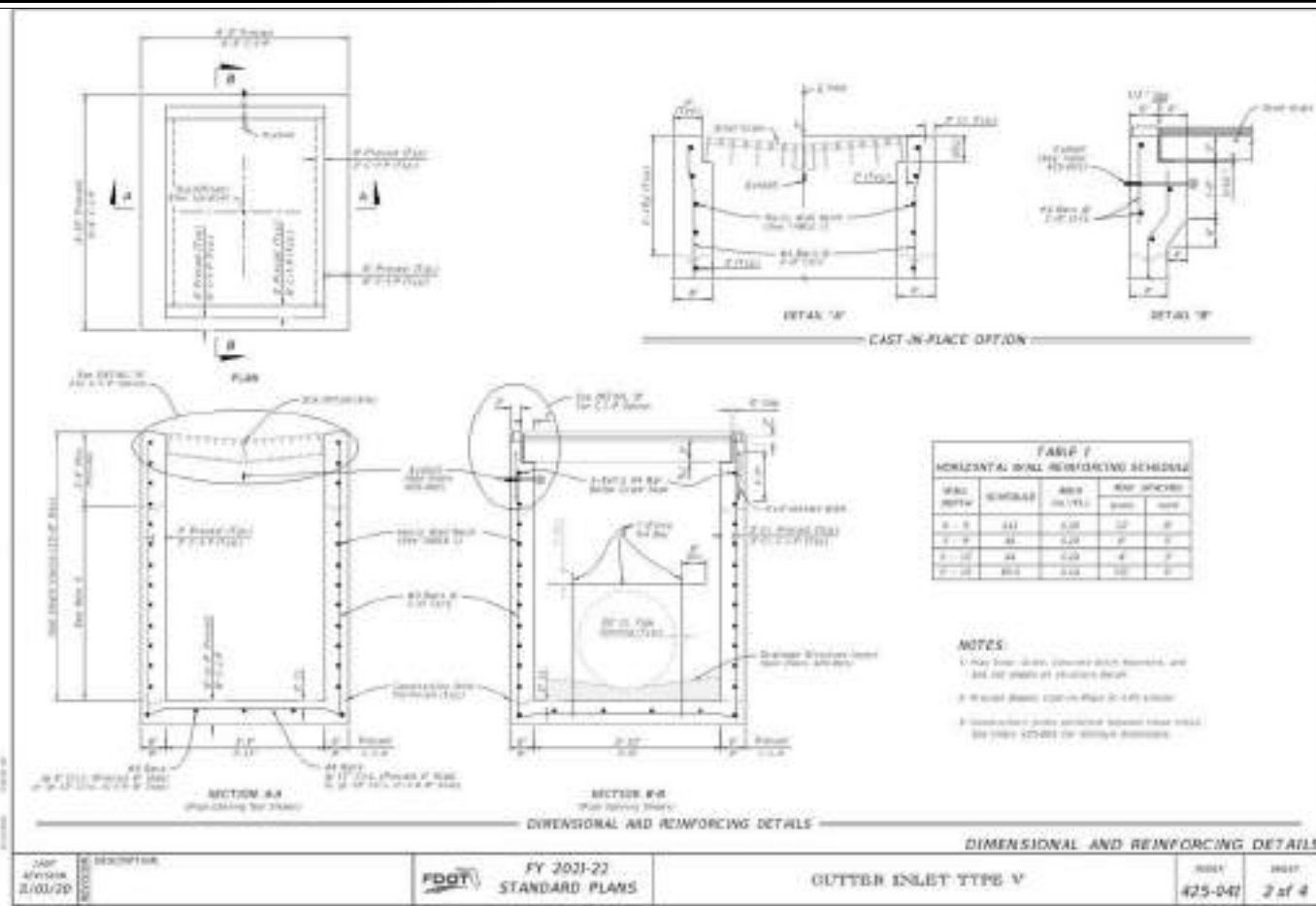
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 3222 Corrine Drive, Suite H
 Orlando, Florida 32803
 CERTIFICATE OF AUTHORIZATION NO. 29032
 407/493-9983

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 PUBLIC WORKS DEPARTMENT
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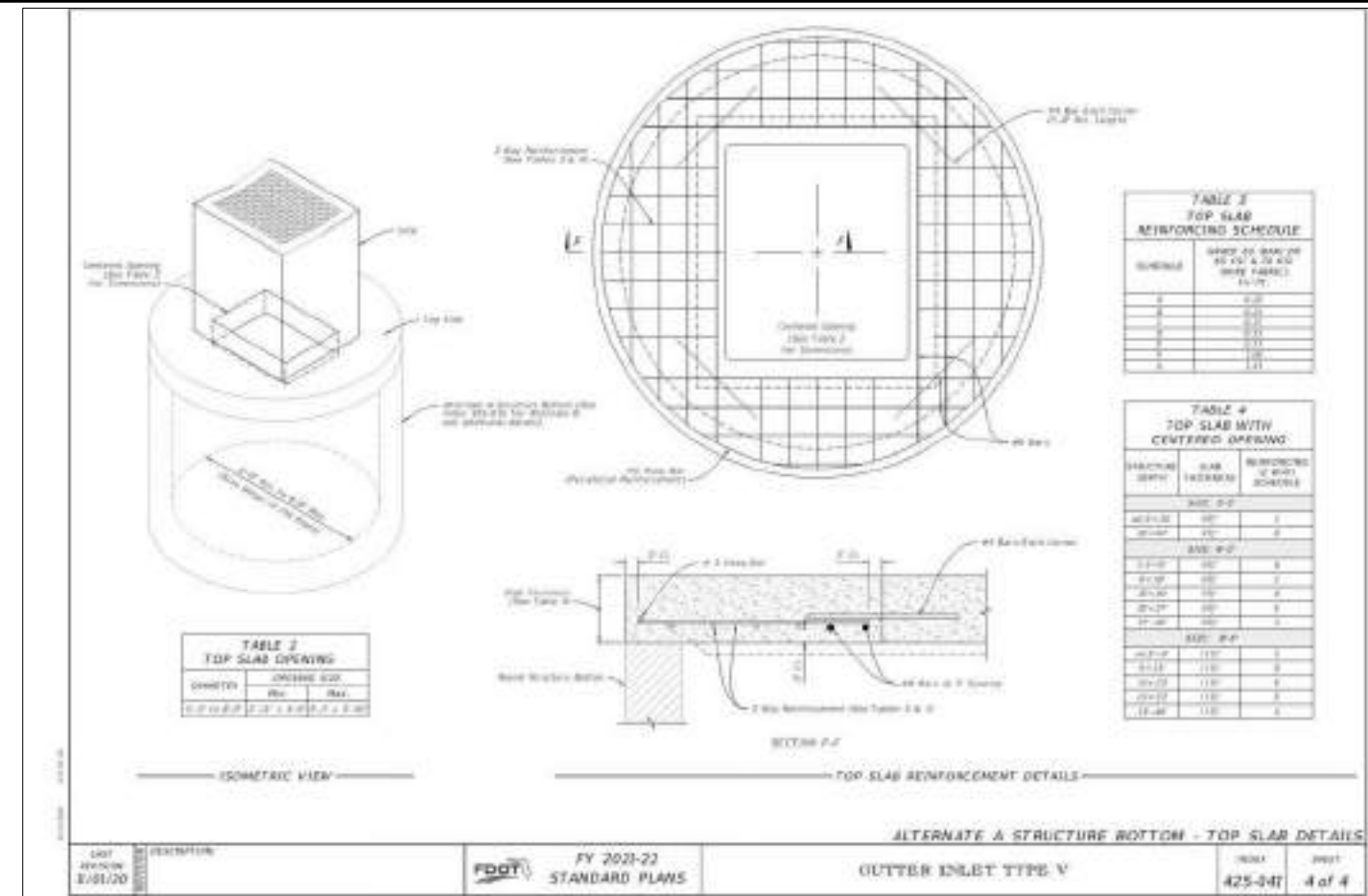
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STANDARD DETAILS
 INDEX NO. 425-020

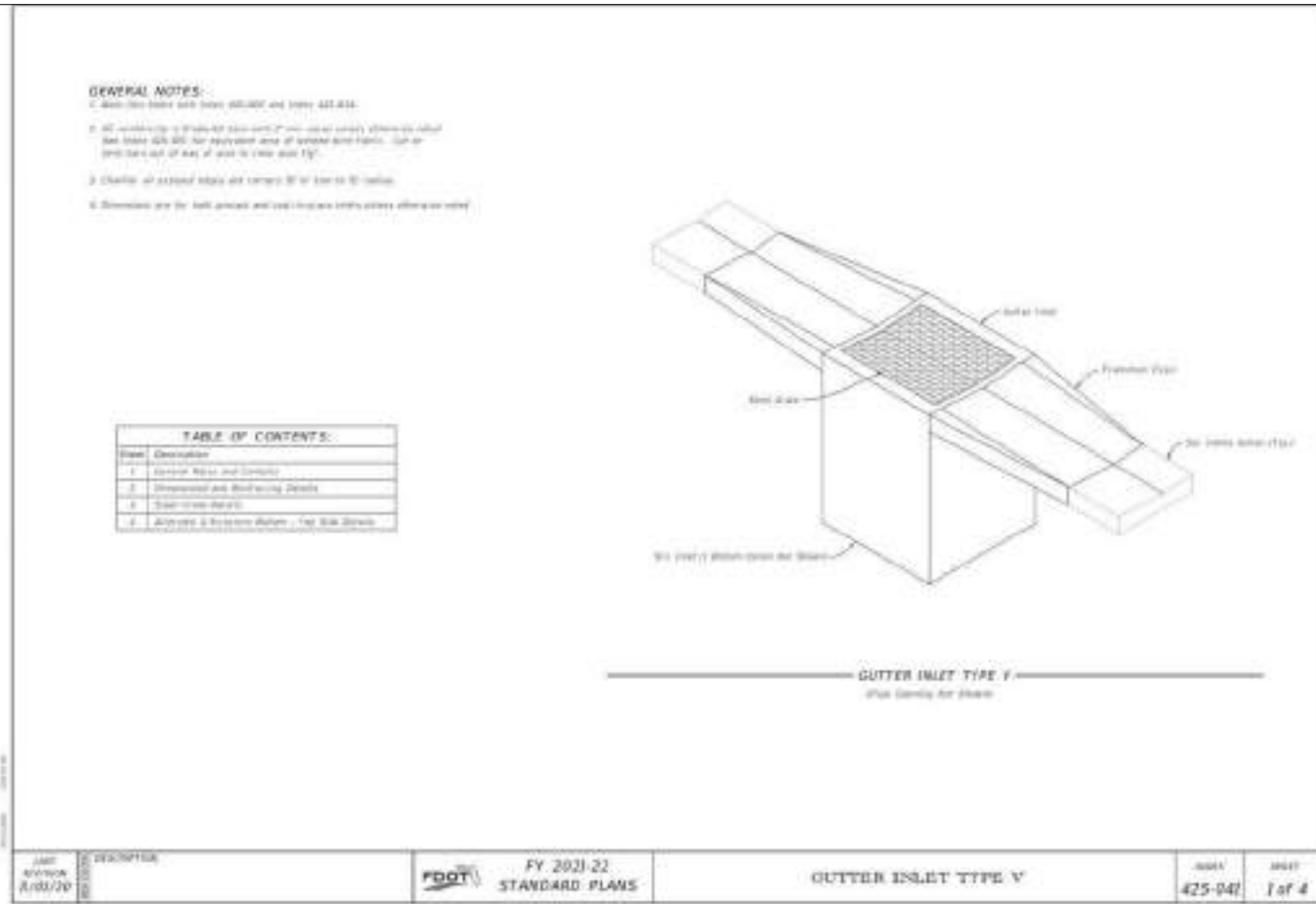
DRWG. SHEET 80 OF 86



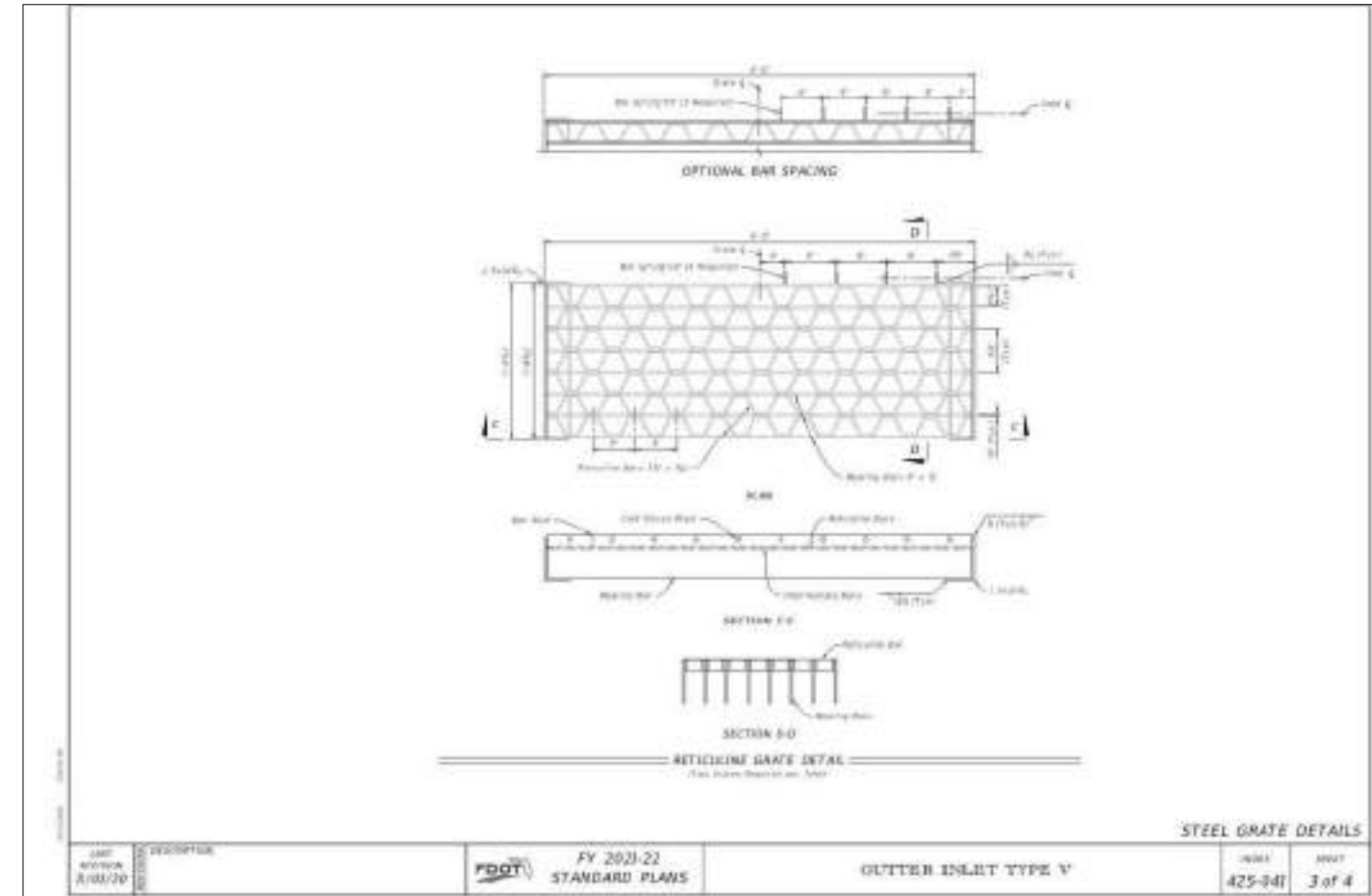
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DATE: 2/03/20	DESCRIPTION: GUTTER INLET TYPE V	FY 2021-22 STANDARD PLANS	NO. 425-041	SHEET 4 of 4
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DATE: 2/03/20	DESCRIPTION: GUTTER INLET TYPE V	FY 2021-22 STANDARD PLANS	NO. 425-041	SHEET 1 of 4
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DATE: 2/03/20	DESCRIPTION: GUTTER INLET TYPE V	FY 2021-22 STANDARD PLANS	NO. 425-041	SHEET 3 of 4
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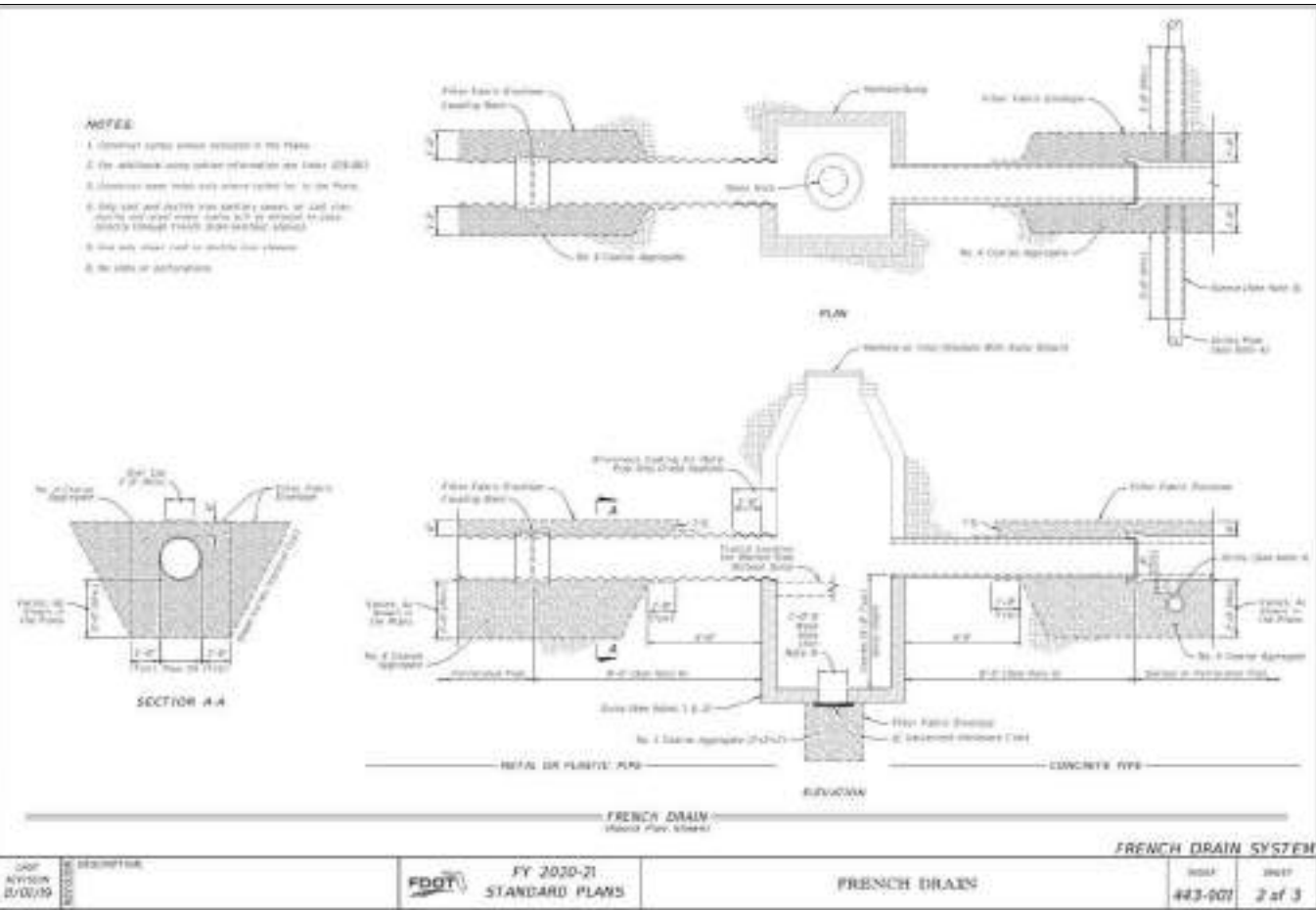
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 Orlando, Florida 32803
 CERTIFICATE OF AUTHORIZATION NO. 29032

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 PUBLIC WORKS DEPARTMENT
 614 MAIN STREET, WINDERMERE, FLORIDA 34786

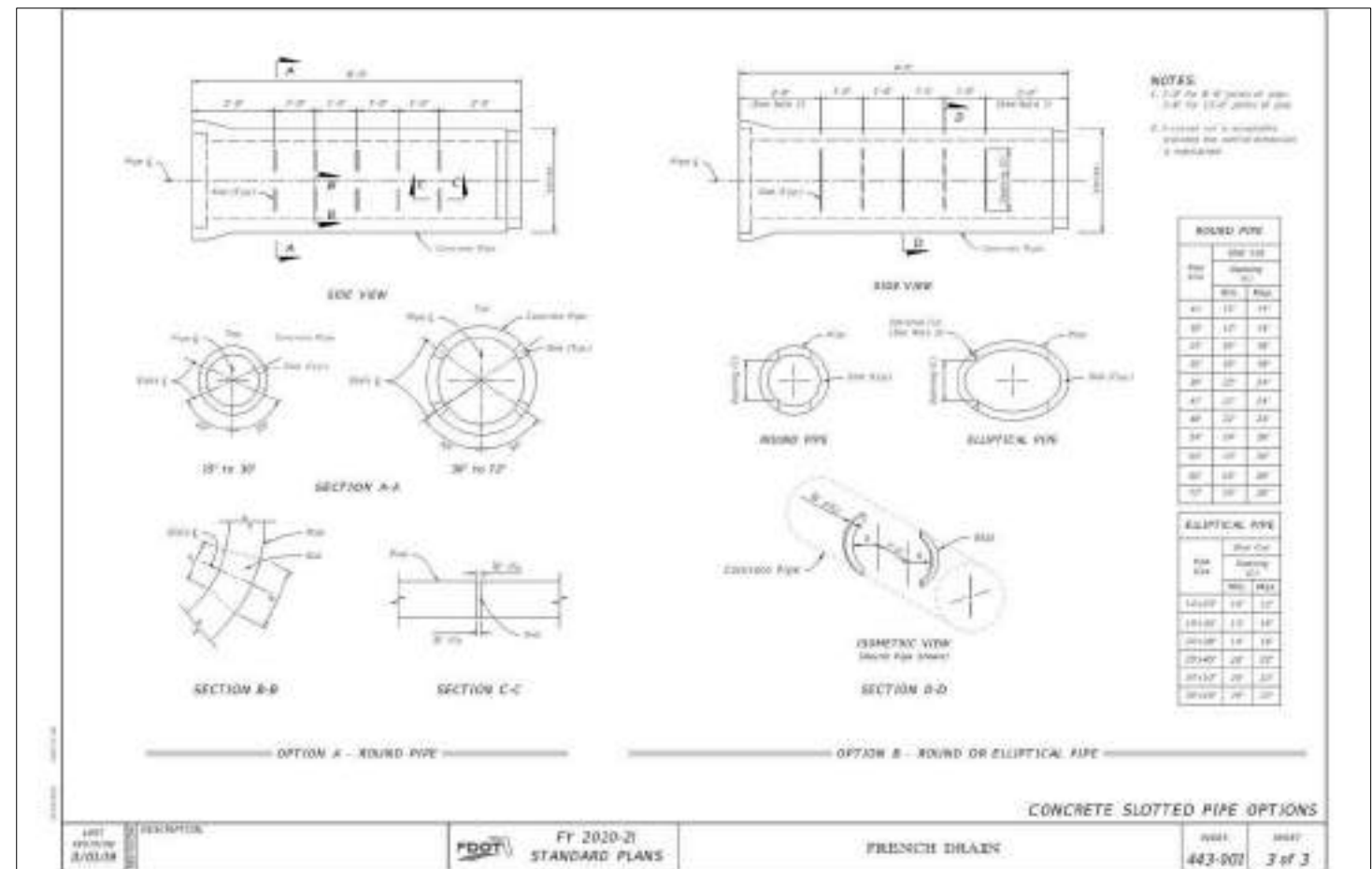
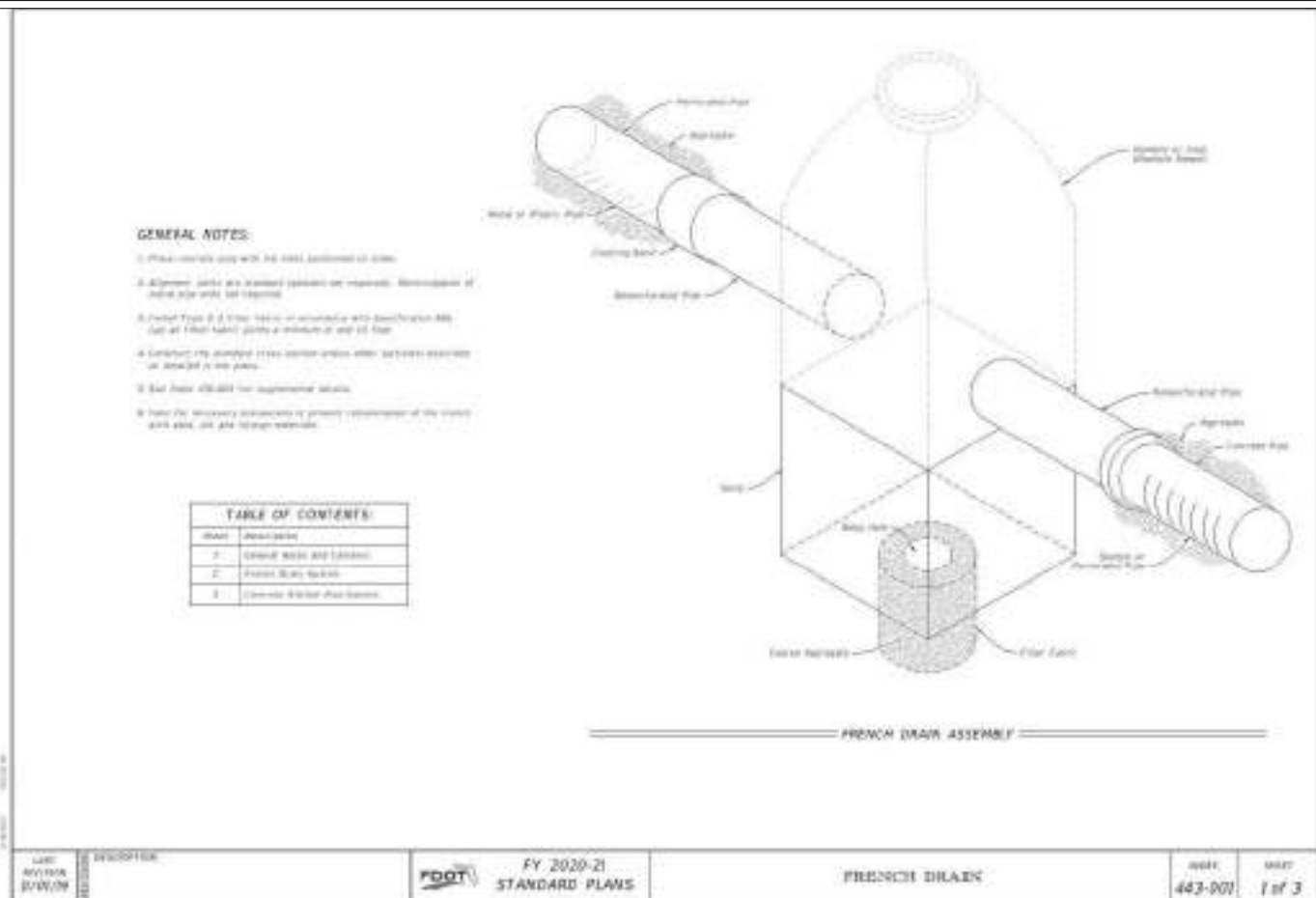
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STANDARD DETAILS
 INDEX NO. 425-041

DRWG. SHEET 83 OF 86

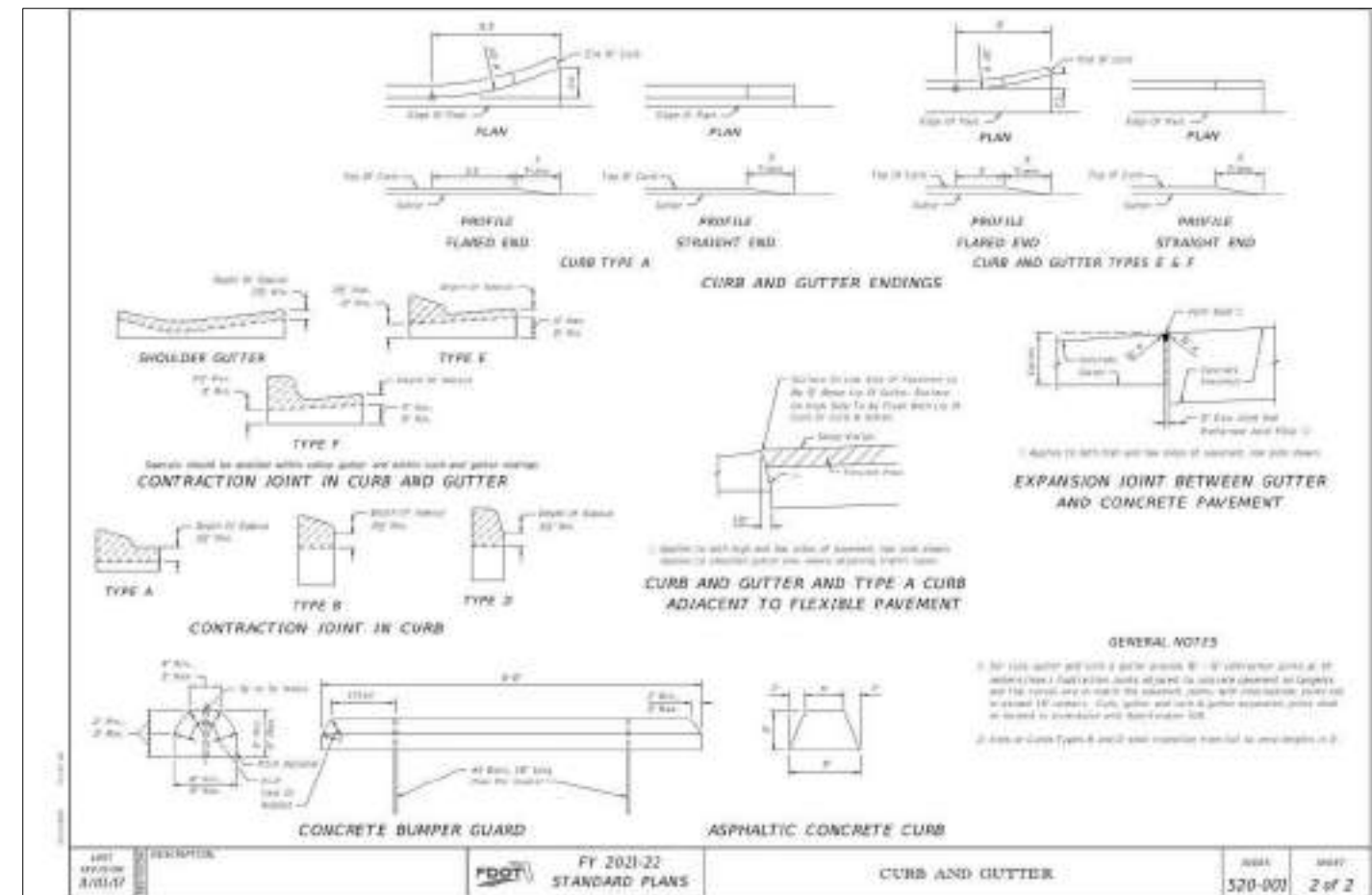
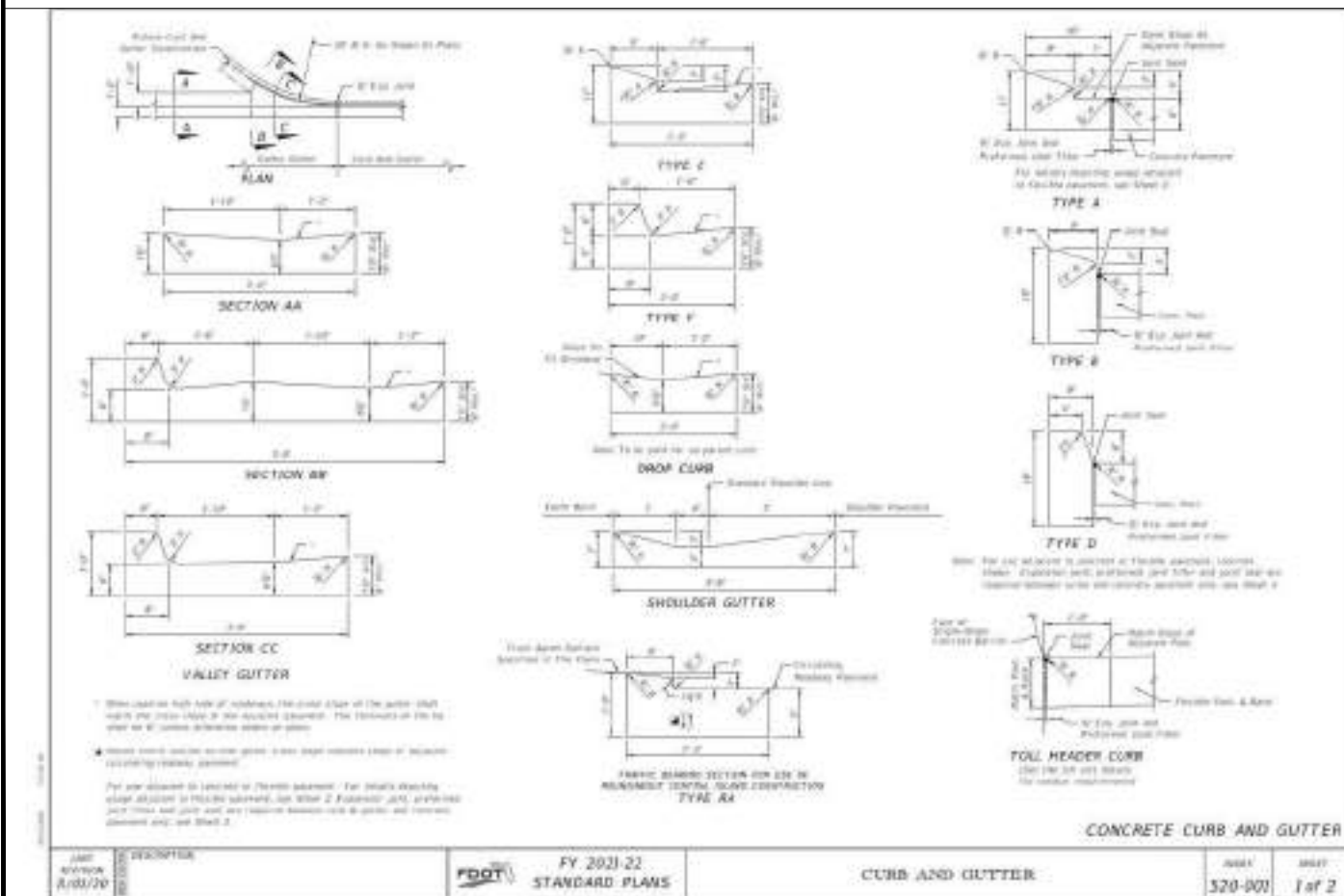


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TOWN OF WINDERMERE
 PUBLIC WORKS DEPARTMENT
 614 MAIN STREET, WINDERMERE, FLORIDA 34786

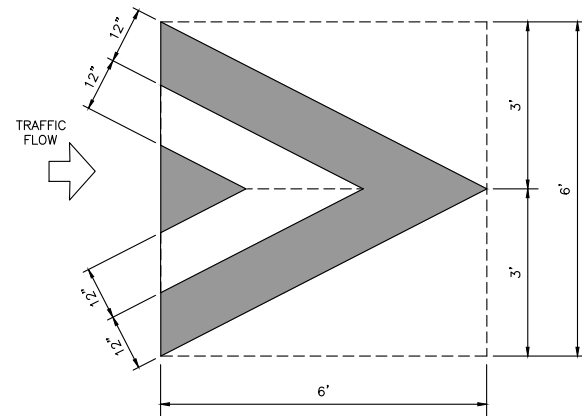
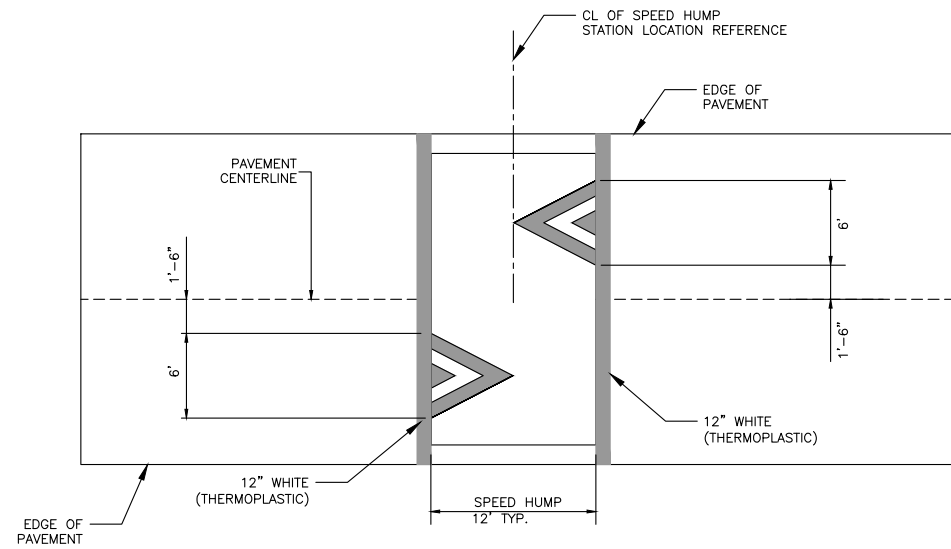
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STANDARD DETAILS
 INDEX NO. 520-001

DRWG. SHEET 85 OF 86

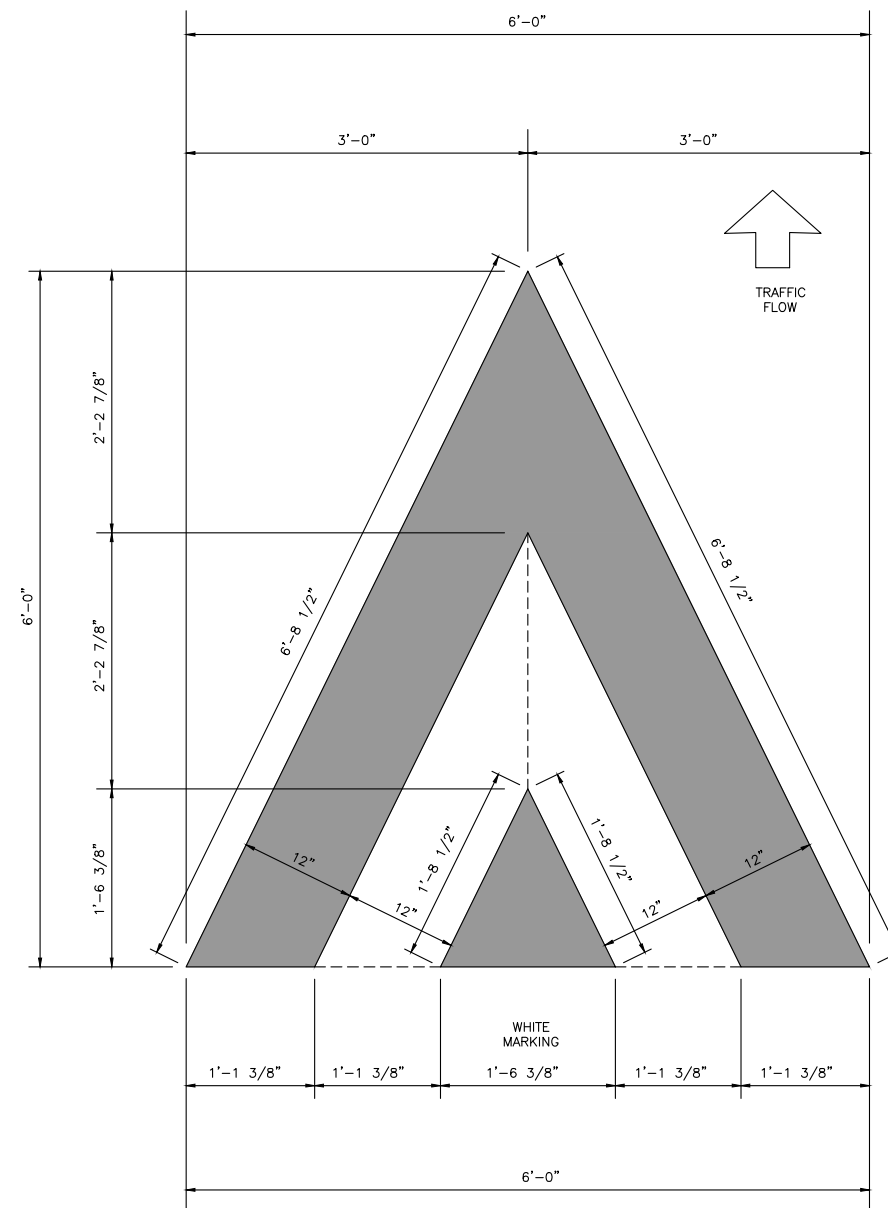
GENERAL NOTES

1. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD LATEST EDITION AND REVISIONS) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN STANDARDS THE THE FLORIDA GREEN BOOK (LATEST EDITIONS AND REVISIONS).
2. CONTRACTOR SHALL PROVIDE A MAINTENANCE OF TRAFFIC PLAN THAT IS DESIGNED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA, FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK. THE PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE MUTCD AND FDOT TRAFFIC DESIGN STANDARDS (LATEST EDITION AND REVISIONS).
3. LOCAL RESIDENTIAL ACCESS SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL PROVIDE A WRITTEN NOTIFICATION TO THE RESIDENTS AFFECTED BY CONSTRUCTION ONE (1) WEEK IN ADVANCE OF THE START OF ANY PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE NOTIFICATION TO THE TOWN FOR REVIEW AND APPROVAL PRIOR TO DISTRIBUTION.
4. THE TOWN OF WINDERMERE RESERVES THE RIGHT TO REQUIRE ADDITIONAL DEVICES AND/OR CHANGES TO THE TRAFFIC CONTROL PLAN BASED ON CHANGING TRAFFIC CONDITIONS.
5. ANY CHANGES MADE TO THE TRAFFIC CONTROL PLAN SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND APPROVED BY THE TOWN PRIOR TO IMPLEMENTATION.



NOTE 1:
PERMANENT PAVEMENT MARKINGS SHALL BE ALKYD THERMOPLASTIC WITH GLASS BEADS OR REFLECTIVE HEAT TRANSFER TAPE. CONTRACTOR SHALL SUBMIT SPECIFICATIONS TO THE TOWN FOR APPROVAL PRIOR TO INSTALLATION.

NOTE 2:
IF PERMANENT PAVEMENT MARKINGS ARE NOT INSTALLED PRIOR TO MOUNDED ASPHALT BEING OPEN TO TRAFFIC, THEN THE CONTRACTOR SHALL PROVIDE TEMPORARY 6" WHITE STRIPING AS SHOWN ABOVE, UPON COMPLETION OF THE PERMANENT MARKINGS, ALL TEMPORARY MARKINGS SHALL BE REMOVED BY THE CONTRACTOR. PERMANENT PAVEMENT MARKINGS SHALL BE INSTALLED WITHIN A MAXIMUM OF SEVEN (7) CALENDAR DAYS AFTER ASPHALT MOUND INSTALLATION.



REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF	DATE	FIELD:
CLIENT		
PM/CM BC		
PM/CM DM		
PM		
CM		
OTHERS		

MGEC MICHAEL GALURA
ENGINEERING
CONSULTANTS, LLC

3222 Corrine Drive, Suite H
Orlando, Florida 32803 407/493-9983
CERTIFICATE OF AUTHORIZATION NO. 29032



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PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

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SCALE: NONE	

**PAVEMENT MARKING FOR
SPEED HUMP**

DRWG. SHEET 86 OF 86