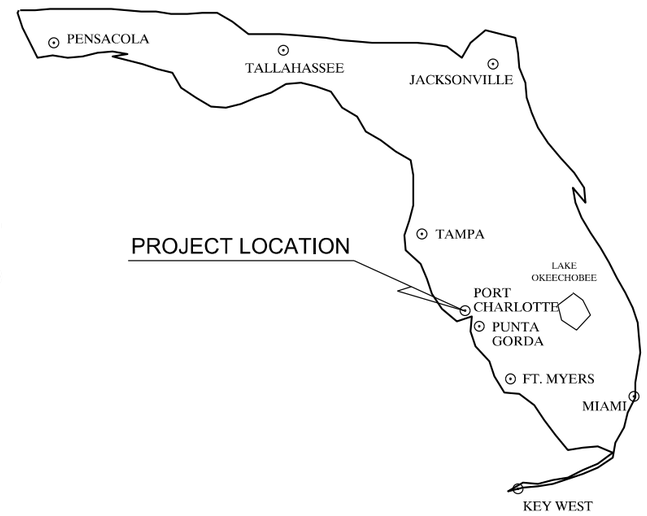
CHARLOTTE COUNTY PUBLIC WORKS
ENGINEERING DIVISION

PLANS OF PROPOSED

Kings Highway Widening
Lighting Plans

Sandhill Blvd. to Courtly Manor Dr.



SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
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L-2	SIGNATURE SHEET
L-3	TABULATION OF QUANTITIES
L-4	GENERAL NOTES
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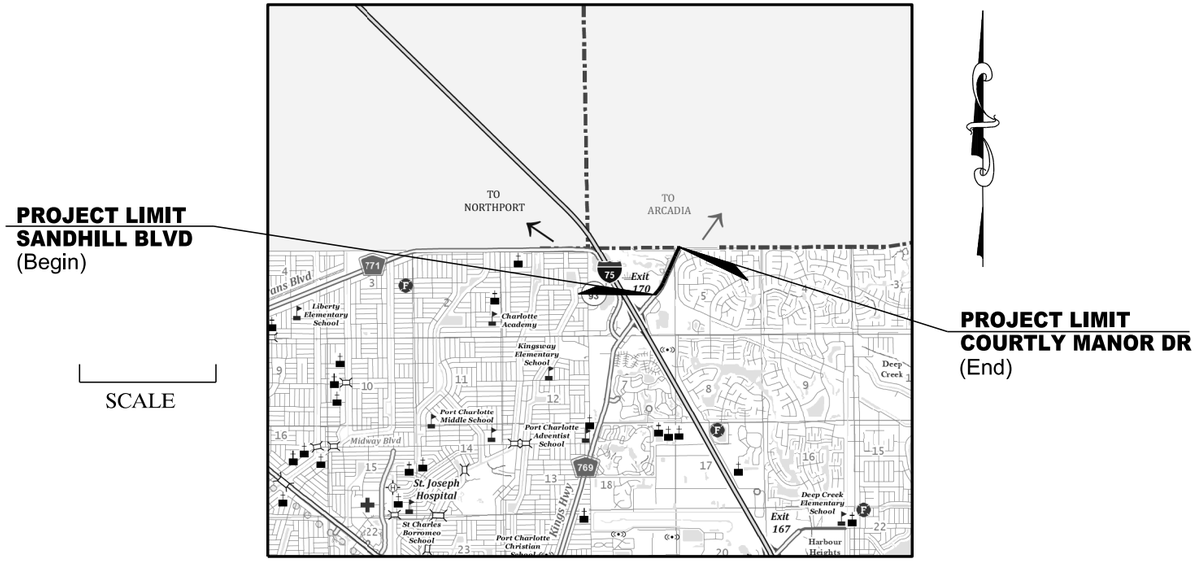
L-7	SERVICE POINT DETAILS
L-8 - L-13	LIGHTING PLAN SHEETS

STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 2025-26, AND SUPPLEMENTS THERETO AS NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.



CHARLOTTE CO. SEC 5 & 6 - TWN. 40 - RNG 23

LOCATION MAP

CHARLOTTE COUNTY
BOARD OF COUNTY COMMISSIONERS

DISTRICT 1 - KEN DOHERTY
DISTRICT 2 - CHRISTOPHER CONSTANCE
DISTRICT 3 - BILL TRUEX
DISTRICT 4 - STEPHEN R. DEUTSCH
DISTRICT 5 - JOE TISEO

DIRECTOR OF PUBLIC WORKS - JOHN ELIAS
COUNTY ENGINEER - JOANNE VERNON, P.E.

CHARLOTTE COUNTY
PUBLIC WORKS
ENGINEERING
410 TAYLOR STREET, UNIT 104
PUNTA GORDA, FLORIDA 33950
(941) 575-3600

48 HOURS BEFORE DIGGING
" CALL SUNSHINE "
1-800-432-4770

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. NOTE THAT THESE PLANS ARE SCALED FOR FULL SIZE (11"x17") SHEETS: 1"=50', UNLESS OTHERWISE SPECIFIED.

100% PLANS
SEPTEMBER 2025

ENGINEERING CERTIFICATION

I HEREBY CERTIFY THAT THE DESIGN OF THIS PROJECT UNDER MY DIRECTION COMPLIES WITH THE CURRENT MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS AS ADOPTED BY THE F.D.O.T. PURSUANT TO SUBSECTION 336.045 OF THE FLORIDA STATUTES.

DATE

LEAH M HOLMES, P.E. NO. 85359

JOHNSON ENGINEERING

Johnson Engineering, LLC
17833 Murdock Circle
Port Charlotte, Florida 33948
Certificate of Authorizaton No. 642

PROJ. NO. 20236025-000
SHEET L-1 OF L-13
DATE 1/28/2025

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

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

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FLORIDA 33948
CERTIFICATE OF AUTHORIZATION: 00642
LEAH M. HOLMES, P.E. NO. 85359

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

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	TABULATION OF QUANTITIES
L-4	GENERAL NOTES
L-5	PAY ITEM NOTES
L-6	POLE DATA AND LEGEND SHEET
L-8 - L-13	LIGHTING PLAN SHEETS

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JOHNSON ENGINEERING
2122 JOHNSON STREET
FORT MYERS, FLORIDA 33901
CERTIFICATE OF AUTHORIZATION: 00642
WAYNE W. WRIGHT, P.E. NO. 58220

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

SHEET NO.	SHEET DESCRIPTION
L-2	SIGNATURE SHEET
L-7	SERVICE POINT DETAILS

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS L-8 PLAN	L-8 FINAL	L-9 PLAN	L-9 FINAL	L-10 PLAN	L-10 FINAL	L-11 PLAN	L-11 FINAL	L-12 PLAN	L-12 FINAL	L-13 PLAN	L-13 FINAL	PLAN	FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	646		1417		1312		1426		1234		47				6082		6082	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	197				113		88		121						520		520	
635-2-11	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA	7		6		7		9		8		1				38		38	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS							1								1		1	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF							50								50		50	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA							1								1		1	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6 (NO. 6)	LF	2688		4396		4435		4742		4240		165				20667		20667	
715-4-14	LIGHT POLE COMPLETE, F&I STANDARD POLE STANDARD FOUNDATION, 45' MOUNTING HEIGHT	EA	4		4		3		5								16		16	
715-4-14S	LIGHT POLE COMPLETE, F&I STANDARD POLE SPECIAL FOUNDATION, 45' MOUNTING HEIGHT	EA	2		2		3		2		6		1				16		16	
715-7-12	LOAD CENTER, F&I, PRIMARY VOLTAGE	EA							1								1		1	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	6		6		6		7		6		1				32		32	

NOTES:
QUANTITIES SHOWN HEREIN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT NECESSARILY COINCIDE WITH THE BID ITEMS.
CONTRACTOR TO VERIFY QUANTITIES AND BID THOSE ITEMS AND QUANTITIES SHOWN ON THE BID SHEET.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
LEAH M. HOLMES, P.E. NO. 85359

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

TABULATION OF QUANTITIES

SHEET NO. L-3

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LIGHTING GENERAL NOTES:

1. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THESE MUST SPECIFICALLY INCLUDE:
   - A. LUMINAIRE PHOTOMETRICS.
   - B. POLE STRENGTH CALCULATIONS AND POLE SHOP DRAWINGS FOR PAY ITEM NO. 715-4-14
   - C. POLE FRANGIBILITY TEST
   - D. ANCHOR BOLT DESIGN CALCULATIONS AND SHOP DRAWINGS
   - E. DISTRIBUTION POINT ELECTRICAL EQUIPMENT
2. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
3. STATE OF FLORIDA STATUTE 556 (2008) REQUIRES THAT BEFORE EXCAVATING, NOTICE BE GIVEN TO THE SUNSHINE STATE ONE CALL OF FLORIDA, INC. (SSOCOF) A MINIMUM OF TWO (2) FULL BUSINESS DAYS AT 1-800-432-4770. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF.
4. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
5. ALUMINUM POLES, LUMINAIRES AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND SHALL HAVE BEEN TESTED BY FHWA APPROVED METHODS (LATEST EDITION). CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
6. SHOP DRAWING SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT CANDLE LEVELS TO BE OBTAINED USING SUBMITTED LUMINAIRES ON THIS PROJECT. AT FINAL INSPECTION THE CONTRACTOR SHALL VERIFY THE HORIZONTAL FOOT CANDLE LEVELS ON THE ROADWAY WITH AN APPROVED CURRENTLY CALIBRATED LIGHT METER AND SUBMIT REPORT FOR APPROVAL.
7. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.
8. INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES ON OUTSIDE OF ENCLOSURE.
9. IN ACCORDANCE WITH N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.
10. THE CONTRACTOR SHALL NOTIFY FPL AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 20 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.
11. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO CONDUCTOR AND NOT TO THE JACKET AND MEET THE MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY THE NEC OR NECS FOR THE CABLE USED.
12. CONTRACTOR SHALL FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING STANDARD. TAGS SHALL BE 2 INCHES X 8 INCHES IN SIZE WITH WHITE LETTERS ON BLUE BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE PER THE POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE. BOTTOM OF TAG SHALL BE INSTALLED 5 FEET ABOVE FINISHED GRADE. COORDINATE THE POLE NUMBER WITH CHARLOTTE COUNTY MAINTENANCE.
13. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING.
14. ALL CONDUITS UNDER ROADWAY (AND/OR SIDEWALK) SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ROADWAY BASE AND SURFACE (OR CONCRETE), EXCEPT WHERE OTHERWISE INDICATED IN THE PLANS.
15. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO FEET OF THE LIGHT POLE FOUNDATIONS OR CONDUIT RUNS, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.
16. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME WORK PERIOD.
17. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER AND PAID FOR UNDER PAY ITEM 715-4-14.
18. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.
19. THE LIGHTING SYSTEM WILL BE MAINTAINED BY CHARLOTTE COUNTY UPON FINAL ACCEPTANCE. THE CONTRACTOR SHALL SUBMIT "AS-BUILT" PLANS TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
20. CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD SHOP DRAWINGS DETAILING THE LAYOUT OF THE ELECTRICAL EQUIPMENT INSIDE THE DISTRIBUTION POINT LIGHTING ELECTRICAL ENCLOSURE.
21. ALL CONDUCTORS SHALL HAVE THWN-2 600 VOLT INSULATION. ALL CONDUCTORS TO BE THHN/THWN-2. ALL CONDUCTORS SHALL BE CONTINUOUS IN COLOR FROM THE LOAD CENTER TO EACH STREET LIGHT POLE. PHASE TAPE SHALL NOT BE USED TO IDENTIFY A CONDUCTOR.
22. CONDUIT LOCATIONS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC. CONDUITS MUST BE PLACED WITHIN THE ROADWAY LIMITS, BUT CAN BE ADJUSTED TO FIT AROUND EXISTING AND PROPOSED UTILITIES. WHERE PLANNED LOCATION OF LIGHTING CONDUIT RUNS 36" UNDER PAVEMENT IS FOUND TO CONFLICT WITH UNDERGROUND UTILITIES, THE LIGHTING CONDUIT POSITION SHALL BE ALTERED VERTICALLY OR HORIZONTALLY TO AVOID THE CONFLICT AS RECOMMENDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. A 24" ABSOLUTE MINIMUM DEPTH SHALL BE MAINTAINED WHERE LIGHTING CONDUITS ARE RELOCATED CLOSER THAN 36" BELOW THE GROUND SURFACE AND SHALL BE PLACED IN AN ADDITIONAL 3" PVC SLEEVE OR BACKFILLED WITH A MINIMUM OF 4" x 4" OF CONCRETE. COST OF SUCH TREATMENT WILL BE INCIDENTAL TO PAY ITEMS PROVIDED.
23. CONTRACTOR SHALL PREPARE ACCURATELY DIMENSIONED "AS-BUILT" PLANS OF FINAL POLE, CONTROLLER, AND CONDUIT LOCATIONS. "AS-BUILT" PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO FINAL ACCEPTANCE. AFTER THE "AS-BUILT" PLANS ARE APPROVED, THE CONTRACTOR SHALL SUBMIT TWO COPIES TO THE RESIDENT ENGINEER AND ONE COPY TO THE CHARLOTTE COUNTY MAINTENANCE. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO THE PAY ITEMS PROVIDED.
24. ALL CONDUITS SHALL BE MANDREL TESTED AND CLEANED. CONDUIT PLACED FOR FUTURE USE SHALL HAVE ¼" POLYESTER CORD PULLED IN PLACE AND CAPPED, WITH NOTATION INSIDE CONDUIT AS TO LOCATION OF OPPOSITE END. PLACE PULL BOXES TO MARK ENDS OF EMPTY CONDUITS.
25. THE CONTRACTOR SHALL CONTACT THE POWER COMPANY TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. THE FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR THE LOAD CENTER.
26. CONTRACTOR SHALL USE THE CONCRETE FOUNDATION PER FDOT STANDARD PLAN INDEX 715-002 (SCREW TYPE FOUNDATION IS NOT ALLOWED).
27. ALL POLE FOUNDATIONS SHOULD BE 2" ABOVE GRADE AT ALL LOCATIONS. IF ADJUSTMENTS ARE NECESSARY PLEASE NOTIFY ENGINEER.
28. STREETLIGHTS, ELECTRIC SERVICES, AND LOAD CENTERS SHALL NOT BE PLACED IN DITCHES, DRAINAGE SLOPES, SWALES, OR WHERE SHEET OR STANDING WATER CAN INTRUDE.
29. ALL ROADWAY STREET LIGHTING SHALL BE FP&L 480VAC SINGLE PHASE 2-WIRE.

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PAY ITEM FOOTNOTES:

PAY ITEM NO. 630-2-11:
GENERAL STREET LIGHTING CONDUIT SHALL BE PVC CONDUIT AND BE SCHEDULE 40 OR SCHEDULE 80 APPROVED FOR ELECTRICAL USE (GRAY). NO THIN WALL CONDUIT IS ALLOWED. TWENTY (20) FOOT LENGTHS ON RUNS OVER TWENTY (20) FOOT SHALL BE USED.

PAY ITEM NO. 630-2-12:
DIRECTIONAL BORE CONDUIT FOR GENERAL STREET LIGHTING SHALL BE TWO (2) INCH CONTINUOUS HDPE SDR 11 AND SHALL BE GRAY IN COLOR. NO OTHER CONDUIT COLOR CAN BE USED UNLESS APPROVED BY CHARLOTTE COUNTY PUBLIC WORKS IN WRITING.

PAY ITEM NO. 630-2-11 AND 630-2-12:
THE CONTRACT UNIT PRICE PER FOOT OF CONDUIT, FURNISHED AND INSTALLED WILL INCLUDE FURNISHING ALL HARDWARE AND MATERIALS AS SPECIFIED ON THE TABULATION SHEET (L-3). ALL LABOR, TRENCHING, BACK FILLING, AND RESTORATION MATERIALS NECESSARY FOR A COMPLETE AND ACCEPTED INSTALLATION. CONSIDER THE LOCATIONS OF CONDUIT AS SHOWN ON THE PLANS AS APPROXIMATE. CONSTRUCT CONDUIT RUNS AS STRAIGHT AS POSSIBLE AND OBTAIN THE ENGINEER'S APPROVAL OF ALL MAJOR DEVIATIONS IN CONDUIT LOCATIONS FROM THOSE SHOWN ON THE PLANS. UNDERGROUND CONDUITS ARE TO BE ADJUSTED TO AVOID UNDERGROUND UTILITIES AND SIDEWALKS. INCLUDES CONDUIT FOR MULTIPLE RUNS IN ONE TRENCH. LINEAR FOOTAGE SHOWN ON PLANS ARE FOR LENGTH OF TRENCH ONLY.

PAY ITEM NO. 715-1-12:
SHALL INCLUDE CONDUCTORS AS INDICATED IN THE PLANS AND THE STANDARD PLANS. PAYMENT SHALL BE MADE ON LINEAR FOOT OF SINGLE CONDUCTOR. CONDUCTOR INSULATION SHALL BE THWN-2.

PAY ITEM NO. 715-4-14S:
LIGHT POLES INCLUDED WITHIN THIS PAY ITEM ARE ANTICIPATED TO REQUIRE A SPREAD FOOTER. THESE MAY BE SWAPPED TO A STANDARD FOUNDATION WITH COUNTY APPROVAL AT THE CONTRACT RATES. CONTRACTOR TO VERIFY PRIOR TO ORDERING. CONTRACTOR SHALL UTILIZE INDEX 715-003 SHEET 4 OF 4 FOR SPREAD FOOTER DESIGN.

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POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
98	A-1	345+03.00	0	255	45'	83.00'	715-4-14
99	A-1	346+10.00	0	255	45'	89.31'	715-4-14
100	A-2	346+40.00	0	255	45'	59.28'	715-4-14
101	A-1	347+50.00	0	255	45'	69.07'	715-4-14S
102	A-2	348+60.00	0	255	45'	50.12'	715-4-14
103	A-1	349+70.00	0	255	45'	68.91'	715-4-14S
104	A-2	350+20.00	0	255	45'	46.47'	715-4-14
105	A-1	352+25.00	0	255	45'	66.07'	715-4-14
106	A-2	352+90.00	0	255	45'	43.58'	715-4-14
107	A-1	354+00.00	0	255	45'	62.72'	715-4-14S
108	A-2	355+10.00	0	255	45'	43.66'	715-4-14
109	A-1	356+20.00	0	255	45'	64.68'	715-4-14S
110	A-2	357+30.00	0	255	45'	43.75'	715-4-14
111	A-1	358+40.00	0	255	45'	64.68'	715-4-14S
112	A-2	359+50.00	0	255	45'	43.75'	715-4-14
113	A-1	360+50.00	0	255	45'	62.79'	715-4-14S
114	A-2	361+70.00	0	255	45'	43.75'	715-4-14
115	A-1	362+80.00	0	255	45'	59.75'	715-4-14S
116	A-2	363+85.00	0	255	45'	43.75'	715-4-14
117	A-1	365+00.00	0	255	45'	52.75'	715-4-14
118	A-4	366+10.00	0	255	45'	42.75'	715-4-14
119	A-3	367+20.00	0	255	45'	52.75'	715-4-14S
120	A-4	368+30.00	0	255	45'	42.75'	715-4-14
121	A-3	369+40.00	0	255	45'	52.75'	715-4-14S
122	A-4	370+50.00	0	255	45'	42.75'	715-4-14
123	A-3	371+65.00	0	255	45'	47.75'	715-4-14S
124	A-4	372+70.00	0	255	45'	43.75'	715-4-14S
125	A-3	373+80.00	0	255	45'	47.75'	715-4-14S
126	A-4	374+90.00	0	255	45'	43.75'	715-4-14S
127	A-3	375+87.00	0	255	45'	47.75'	715-4-14S
128	A-4	377+10.00	0	255	45'	43.75'	715-4-14S
129	A-3	378+20.00	0	255	45'	63.60'	715-4-14S

POLE DATA NOTES:

715-4-14S DENOTES ANTICIPATED SPREAD FOOTER.

POLE SETBACK REFERS TO DISTANCE TO CENTER OF POLE UP RIGHT.

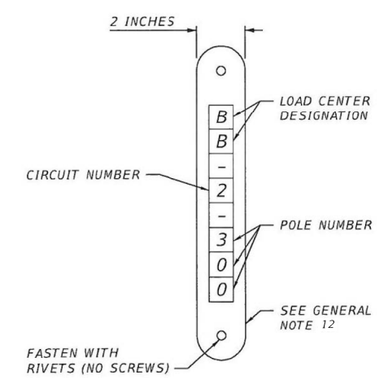
QUANTITIES SHOWN HEREIN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT NECESSARILY COINCIDE WITH THE BID ITEMS. CONTRACTOR TO VERIFY QUANTITIES AND BID THOSE ITEMS AND QUANTITIES SHOWN ON THE BID SHEET.

CONVENTIONAL LIGHTING DESIGN CRITERIA

Average Initial Intensity	Foot Candles
Uniformity Ratio Avg./Min.	3:1 Or Less
Max./Min.	10:1 Or Less

LEGEND

SYMBOLS	DESCRIPTION
	Holophane Mongoose LED Medium P5, 3000K CCT, Wide Roadway, with field adjustable output (MGLEDM-P5-30K-480-WR-VH-GRSD-A0-US-HSS). Designed for Type II distribution with zero tilt. Pole mounting height 45 ft with housing side shields and uplight skirt.
	Existing pole and luminaire.
	2" Schedule 40 PVC conduit with THW or THWN conductors inside (conduit and conductor size as shown on plan sheets). Run one (1) 6 AWG copper bond conductor (TW green insulation) inside conduit with other conductors.
	2" Schedule 40 PVC conduit directional bored with THW or THWN conductors inside (conduit and conductor size as shown on plan sheets). Run one (1) 6 AWG copper bond conductor (TW green insulation) inside conduit with other conductors.
	Pull box. For specifications see Section 635-001 of Standard Specifications For Road And Bridge Construction.
	Distribution point.



POLE IDENTIFICATION TAG DETAIL
N.T.S.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
LEAH M. HOLMES, P.E. NO. 85359

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

POLE DATA AND LEGEND

SHEET NO. L-6

CIRCUIT DATA

LOAD CENTER	CIRCUIT	OUTPUT VOLTAGE (VOLTS)	PHASE	BRANCH BREAKER SIZE	MAIN BREAKER SIZE	DEMAND LOAD (KVA)	DESIGN LOAD (KVA)
A	A-1	480	1PH	40A/2P	100A,2P	3.5	2.8
	A-2	480	1PH	40A/2P		1.9	1.5
	A-3	480	1PH	40A/2P		3.5	2.8
	A-4	480	1PH	40A/2P		2.2	1.8
					TOTAL	11.2	8.9

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

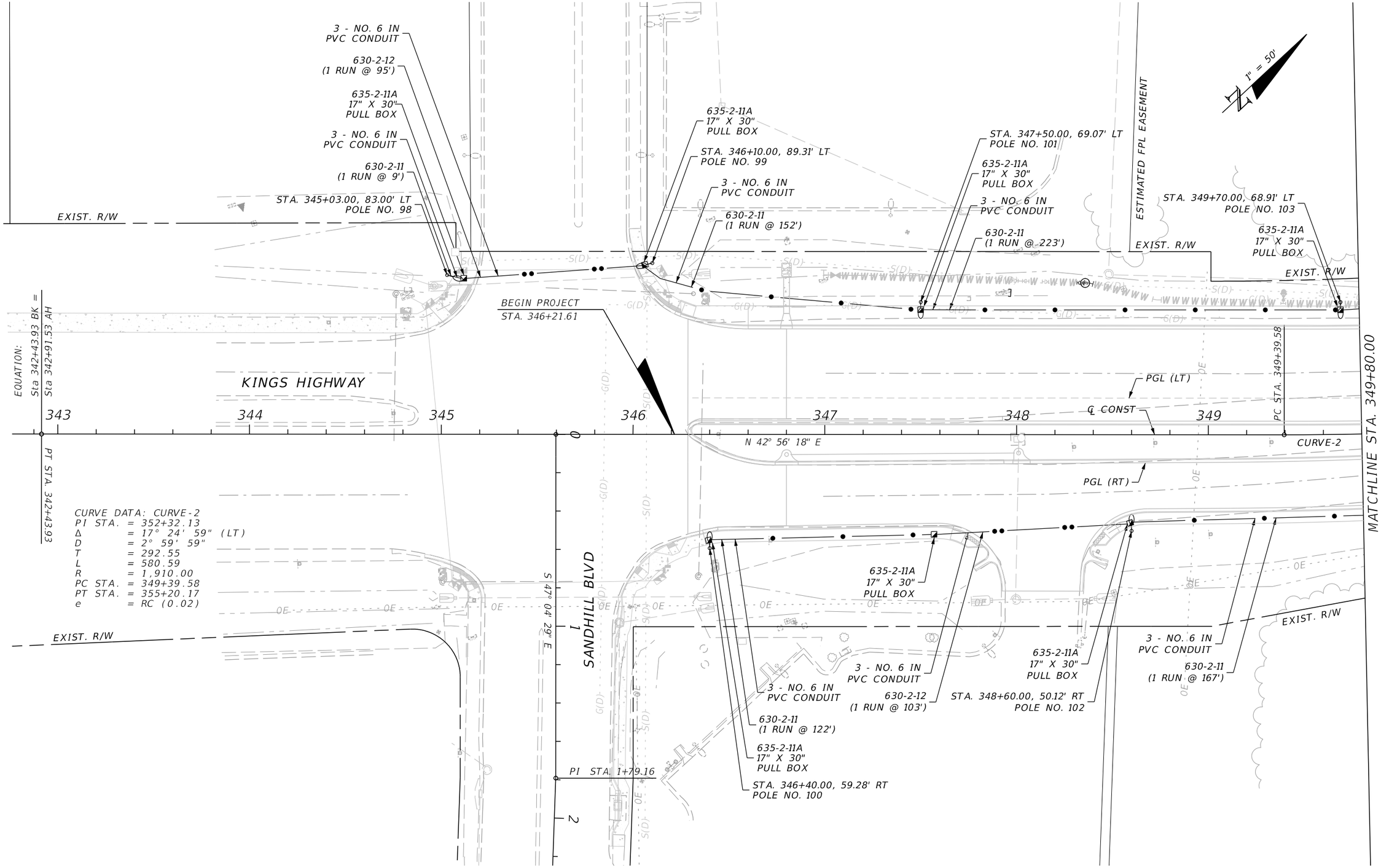
JOHNSON ENGINEERING
2122 JOHNSON STREET
FORT MYERS, FL 33901
EB 642 & LB 642
WAYNE W. WRIGHT, P.E. NO. 58220

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SERVICE POINT DETAIL

SHEET NO.
L-7



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

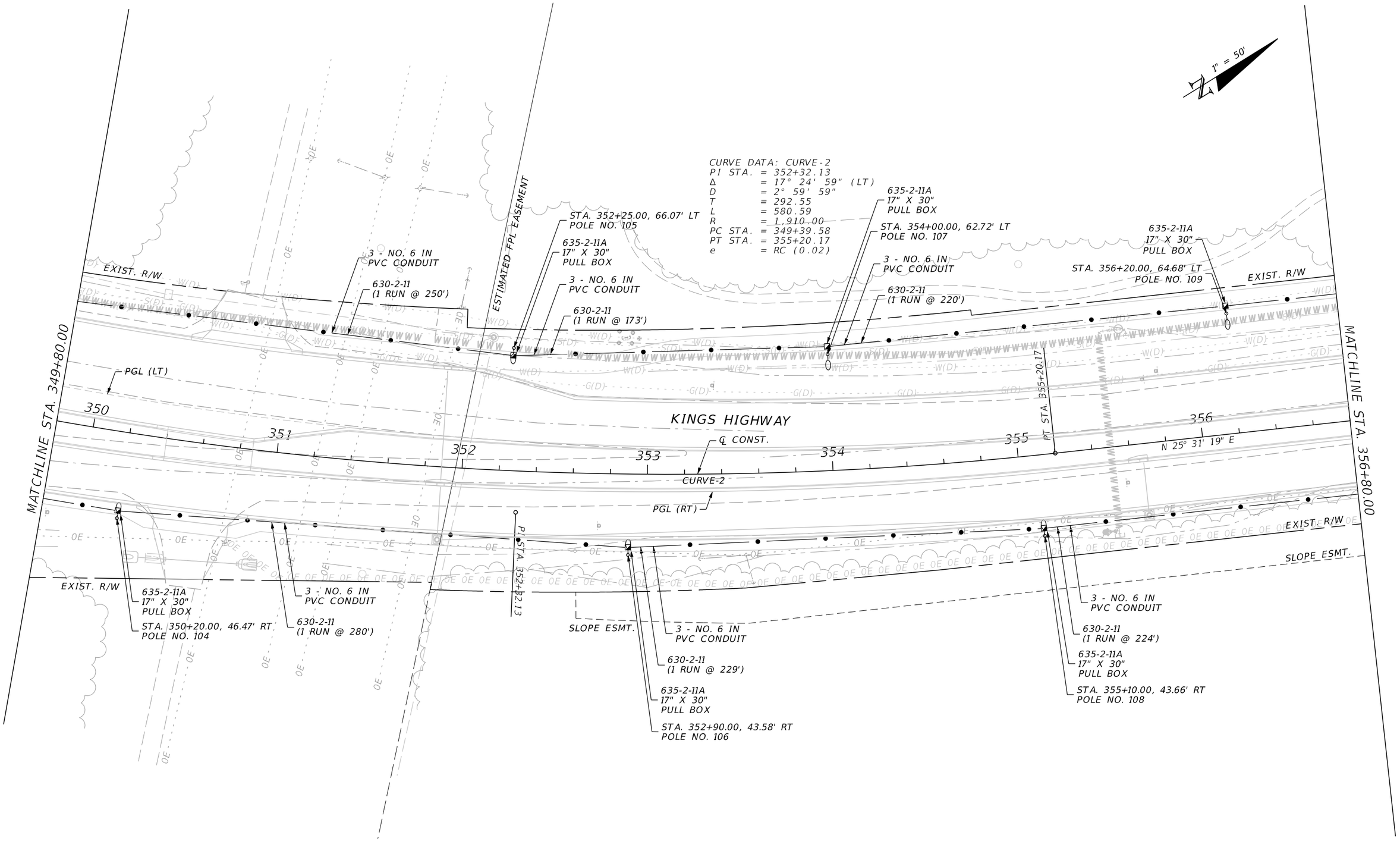
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
LEAH M. HOLMES, P.E. NO. 85359

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

LIGHTING PLAN
STA. 342+30 TO STA. 349+80

SHEET NO.
L-8



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17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
LEAH M. HOLMES, P.E. NO. 85359

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

LIGHTING PLAN
STA. 349+80 TO STA. 356+80

SHEET NO.
L-9

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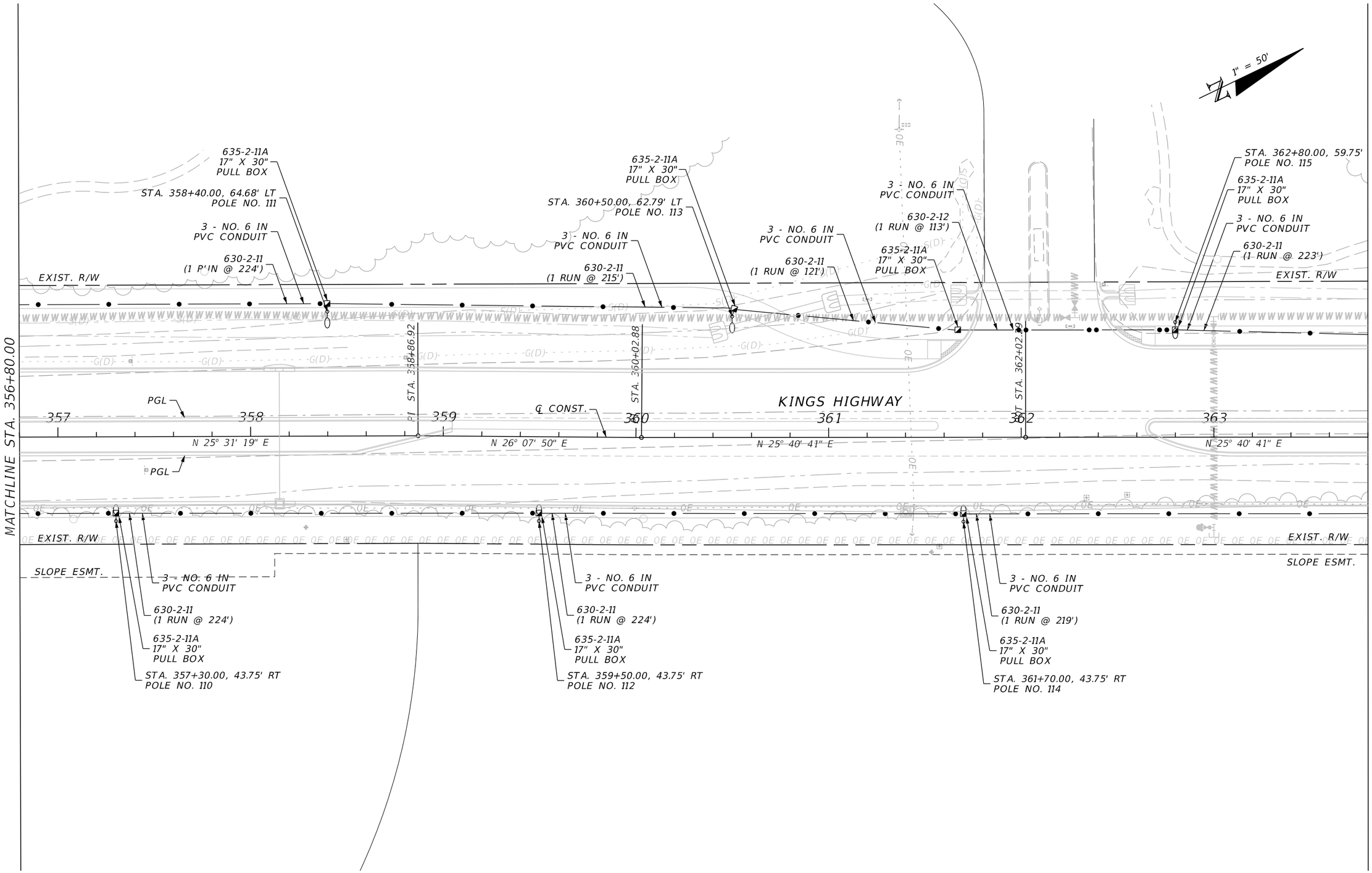

REVISIONS			
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JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
LEAH M. HOLMES, P.E. NO. 85359

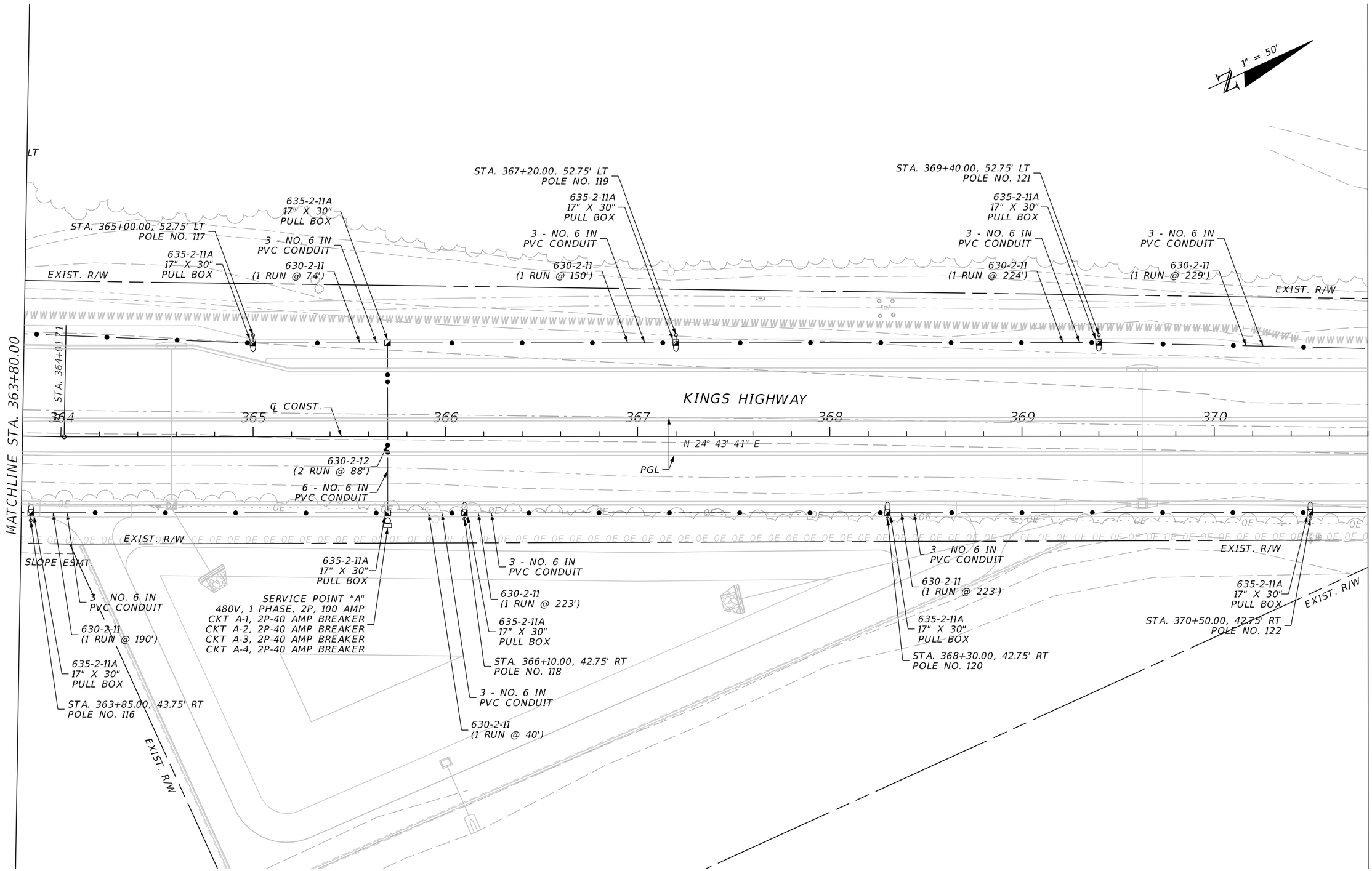
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

LIGHTING PLAN
STA. 356+80 TO STA. 363+80

SHEET NO.
L-10

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
LEAH M. HOLMES, P.E. NO. 85359

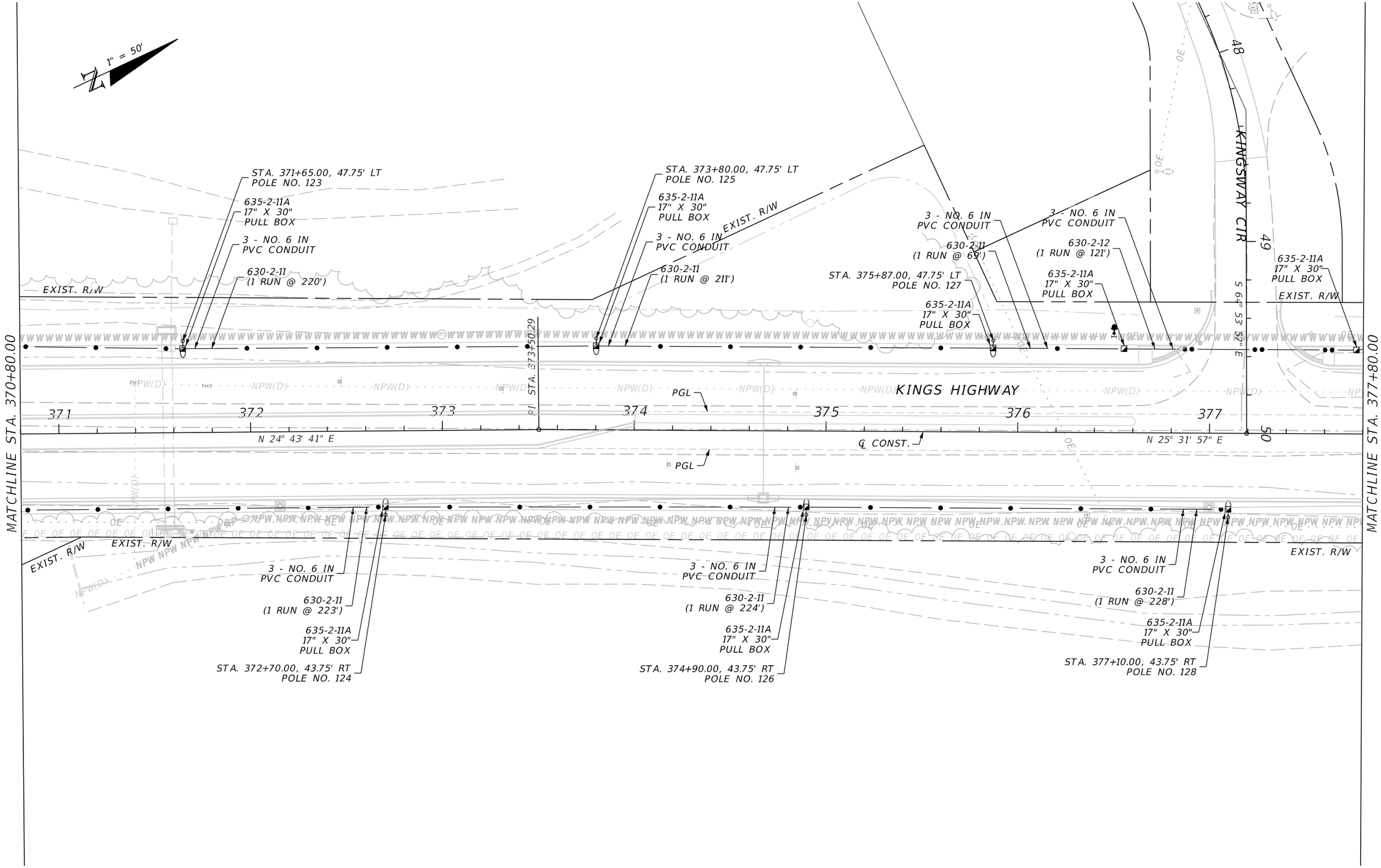
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

LIGHTING PLAN
STA. 363+80 TO STA. 370+80

SHEET NO.
L-11

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
LEAH M. HOLMES, P.E. NO. 85359

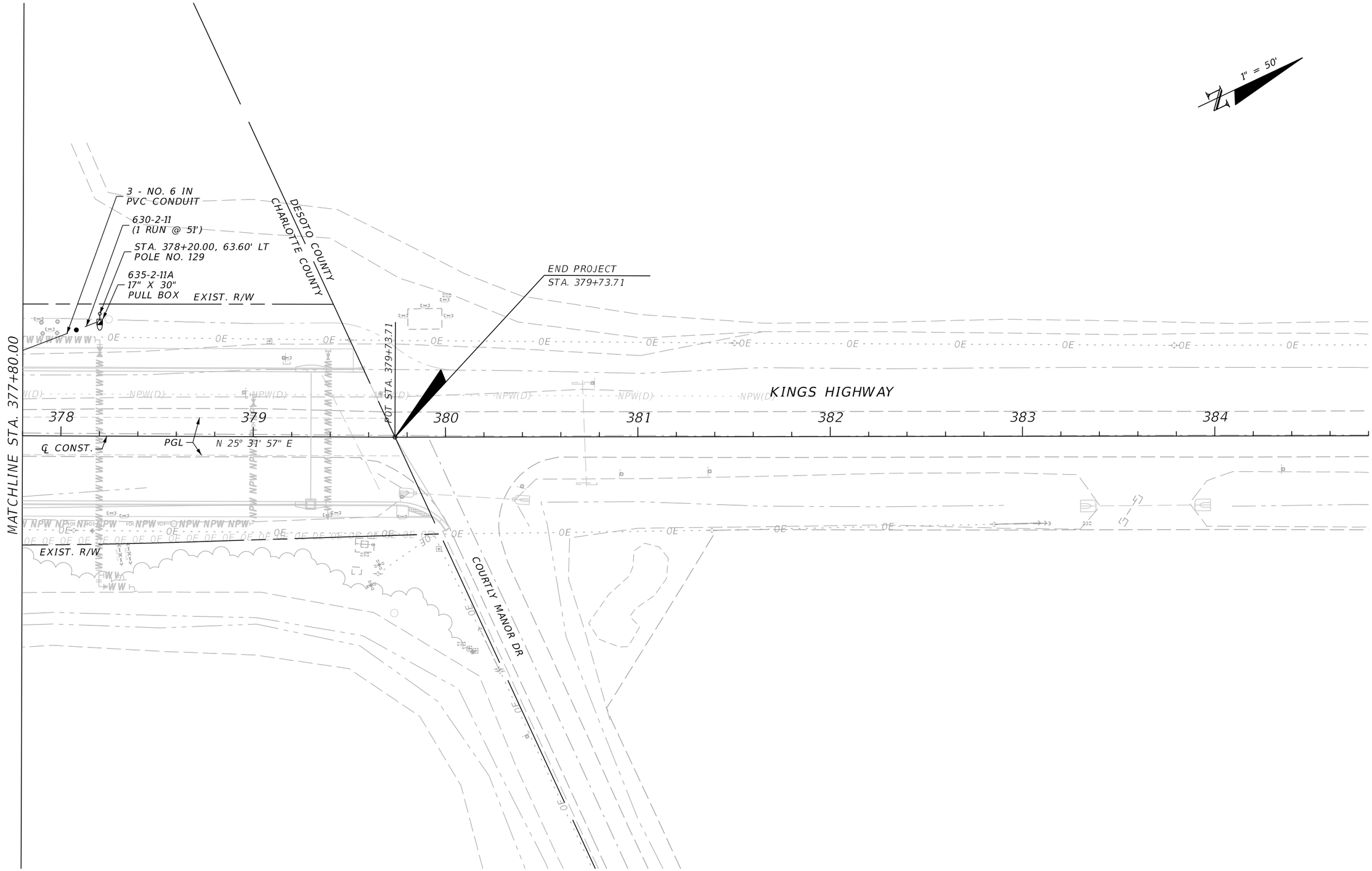
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

LIGHTING PLAN
STA. 370+80 TO STA. 377+80

SHEET NO.
L-12

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
LEAH M. HOLMES, P.E. NO. 85359

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

LIGHTING PLAN
STA. 377+80 TO STA. 384+80

SHEET NO.
L-13

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LIGHTING PLANS
UTILITY PLANS

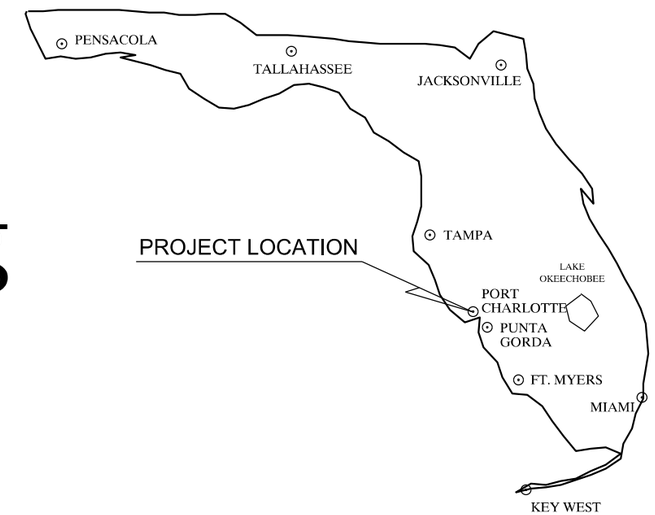
CHARLOTTE COUNTY PUBLIC WORKS
ENGINEERING DIVISION

PLANS OF PROPOSED

Kings Highway Widening

ROADWAY PLANS

Sandhill Blvd. to Courtly Manor Dr.



STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 2025-26, AND SUPPLEMENTS THERETO AS NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.

CHARLOTTE COUNTY
BOARD OF COUNTY COMMISSIONERS

DISTRICT 1 - KEN DOHERTY
DISTRICT 2 - CHRISTOPHER CONSTANCE
DISTRICT 3 - BILL TRUEX
DISTRICT 4 - STEPHEN R. DEUTSCH
DISTRICT 5 - JOE TISEO

DIRECTOR OF PUBLIC WORKS - JOHN ELIAS
COUNTY ENGINEER - JOANNE VERNON, P.E.

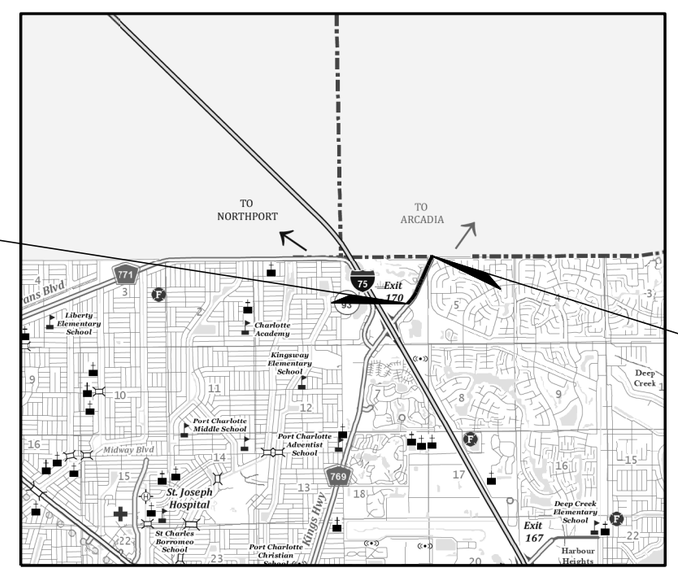
CHARLOTTE COUNTY
PUBLIC WORKS
ENGINEERING
410 TAYLOR STREET, UNIT 104
PUNTA GORDA, FLORIDA 33950
(941) 575-3600

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY
4 - 5	DRAINAGE MAP
6 - 7	TYPICAL SECTIONS
8	GENERAL NOTES
SQ-1 - SQ-5	SUMMARY OF QUANTITIES
9	SUMMARY OF DRAINAGE
10	PROJECT LAYOUT
11 - 17	ROADWAY PLAN AND PROFILE
18 - 25	DRAINAGE STRUCTURES
26 - 28	POND DETAILS
29	CONTROL STRUCTURE DETAIL
30	DRAINAGE STRUCTURE DETAIL
31 - 41	ROADWAY CROSS SECTIONS
42	DRIVEWAY CROSS SECTIONS
43 - 44	POND CROSS SECTIONS
45 - 46	STORMWATER POLLUTION PREVENTION PLAN
47 - 50	EROSION CONTROL PLANS
51	TEMPORARY TRAFFIC CONTROL PLAN
52 - 57	UTILITY ADJUSTMENTS
58	SUMMARY OF VERIFIED UTILITIES
G-1	ROADWAY SOIL SURVEY
IM-1	IMPACT MAP

SCALE

PROJECT LIMIT
SANDHILL BLVD
(Begin)



PROJECT LIMIT
COURTLY MANOR DR
(End)

CHARLOTTE CO. SEC 5 & 6 - TWN. 40 - RNG 23

LOCATION MAP

48 HOURS BEFORE DIGGING
" CALL SUNSHINE "
1-800-432-4770

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.

FINAL SUBMITTAL
AUGUST 2025

ENGINEERING CERTIFICATION

I HEREBY CERTIFY THAT THE DESIGN OF THIS PROJECT UNDER MY DIRECTION COMPLIES WITH THE CURRENT MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS AS ADOPTED BY THE F.D.O.T. PURSUANT TO SUBSECTION 336.045 OF THE FLORIDA STATUTES.

DATE

RYAN K. BELL, P.E. NO. 60010

JOHNSON ENGINEERING
— An Apex Company —
Johnson Engineering, LLC
17833 Murdock Circle
Port Charlotte, Florida 33948
Certificate of Authorizaton No. 642

PROJ. NO. 20236025-000
SHEET 1 OF 58
DATE 8/6/2025

RYAN K. BELL
LICENSE
No 60010
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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.
THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

JOHNSON ENGINEERING, INC.
2122 JOHNSON STREET
FORT MYERS, FLORIDA 33901
RYAN K. BELL, P.E. NO. 60010

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

1	KEY SHEET
2	SIGNATURE SHEET
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58	SUMMARY OF VERIFIED UTILITIES

EDWARD P. LOMSKI, JR.
LICENSE
No 62507
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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LOMSKI ENGINEERING & TESTING
17210 TOLEDO BLADE BOULEVARD
PORT CHARLOTTE, FLORIDA 33954
EDWARD P. LOMSKI, JR., P.E. NO. 62507

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
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G-1	ROADWAY SOIL SURVEY

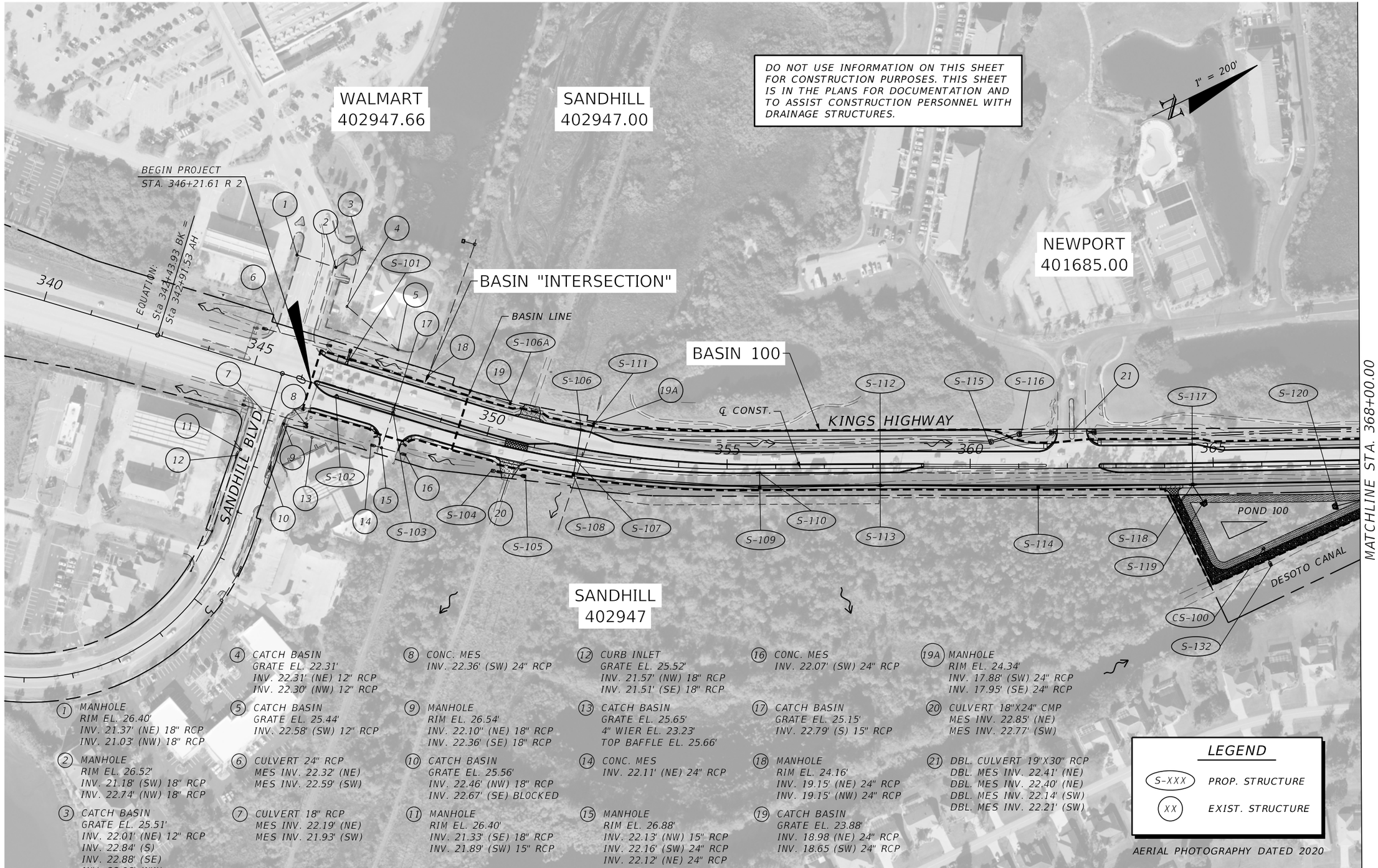
SUMMARY

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY
45	AS-BUILT DRAWINGS	LS	1
101 1	MOBILIZATION	LS	1
102 1	MAINTENANCE OF TRAFFIC	LS	1
104 10 3	SEDIMENT BARRIERS - SILT FENCE	LF	7,035
104 11	FLOATING TURBIDITY BARRIER	LF	214
110 1 1	CLEARING & GRUBBING	LS	1
120 1	EXCAVATION & EMBANKMENT	LS	1
160 4 8	TYPE B STABILIZATION (LBR 70), 8" (SIDEWALK)	SY	7,507
160 4 12	TYPE B STABILIZATION (LBR 70), 12" (ROADWAY)	SY	25,617
285 709	OPTIONAL BASE, BASE GROUP 09	SY	22,461
327 70 6	MILLING EXIST ASPH PAVT, 1.5" AVG DEPTH	SY	714
331 2A	TYPE S-I ASPHALT CONCRETE, 3"	TN	3,706.1
331 2B	TYPE S-III ASPHALT CONCRETE, 1.5"	TN	1,913.8
400 2 2	CLASS II CONCRETE ENDWALLS	CY	11.6
425 1 331	INLETS, CURB, TYPE P-3, <10'	EA	1
425 1 341	INLETS, CURB, TYPE P-4, <10'	EA	1
425 1 351	INLETS, CURB, TYPE P-5, <10'	EA	1
425 1 361	INLETS, CURB, TYPE P-6, <10'	EA	8
425 1 461	INLETS, CURB, TYPE J-6, <10'	EA	4
425 1 529	INLETS, DT BOT, TYPE C, MODIFY	EA	1
425 1 549	INLETS, DT BOT, TYPE D, MODIFY	EA	2
425 1 581	INLETS, DT BOT, TYPE H, <10'	EA	1
425 1 910	INLETS, CLOSED FLUME	EA	1
425 2 61	MANHOLES, P-8, <10'	EA	2
425 2 91	MANHOLES, J-8, <10'	EA	2
425 2 92	MANHOLES, J-8, >10'	EA	1
430 94 1	DESILTING PIPE	LF	555
430 175 118	PIPE CULVERT, CLASS III, ROUND, 18"S/CD	LF	545
430 175 124	PIPE CULVERT, CLASS III, ROUND, 24"S/CD	LF	889
430 175 130	PIPE CULVERT, CLASS III, ROUND, 30"S/CD	LF	741
430 175 136	PIPE CULVERT, CLASS III, ROUND, 36"S/CD	LF	889
430 175 224	ELLIPTICAL CONCRETE PIPE CULVERT (HE III) (19"X30" S/CD)	LF	210
430 984 129	MITERED END SECTION, (24")	EA	1
430 984 629	MITERED END SECTION, (19"x30")	EA	6
455 14 2	CONCRETE SHEET PILING, 8"X30"	LF	670
515 1 2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	20
520 1 7	CONCRETE CURB & GUTTER, TYPE E	LF	193
520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	10,950
520 5 41	TRAFFIC SEPARATOR CONCRETE- TYPE IV, 4' WIDE	LF	516
522 1	CONCRETE SIDEWALK, 4" THICK	SY	5,583
522 2	CONCRETE DRIVEWAYS, AND MEDIAN NOSES, 6" THICK	SY	336
530 3 3	RIPRAP, RUBBLE, F&I, DITCH LINING, 12" THICK	SY	31
570 1 2	PERFORMANCE TURF, SOD	SY	20,375
751 60 1	POND MAINTENANCE ACCESS (6" GEOGRID W. NO.57 STONE)	SY	1,049

PAY ITEM NOTES

102 1	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A DETAILED MOT PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA IF NOT UTILIZING A FDOT STANDARD PLAN FROM INDEX 102-600 SERIES. ALL COST ASSOCIATED WITH PRODUCING, IMPLEMENTING AND MAINTAINING THE MOT PLAN SHALL BE INHERENT TO THIS PAY ITEM. THE MOT PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
110 1 1	CLEARING AND GRUBBING SHALL INCLUDE, BUT NOT BE LIMITED TO, THE REMOVAL OF ASPHALT, CONCRETE, SIDEWALK, CONCRETE CURB AND GUTTER, DRIVEWAYS, DRAINAGE STRUCTURES, DRAINAGE PIPES, CONDUIT, ROADWAY BASE, AND VEGETATION / TREES. ALL CLEARING AND GRUBBING DEBRIS SHALL BE REMOVED FROM JOB SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COUNTY. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVAL OF EXISTING CONCRETE.
425 1 549	COST SHALL INCLUDE FULL COMPENSATION FOR THE FURNISHING AND INSTALLATION OF ALL MATERIALS, HARDWARE, AND OTHER ITEMS NECESSARY TO COMPLETELY INSTALL THE SKIMMER.
425 X XX	WHERE PROPOSED STRUCTURES CONNECT TO EXISTING PIPES, THE COST OF THE CONNECTION SHALL BE INHERENT TO THE COST OF THE STRUCTURE. THIS INCLUDES BUT IS NOT LIMITED TO SAW CUTTING EXISTING PIPE, PIPE REMOVAL, AND BRICK AND MORTAR CONNECTION.
425 1 910	COST OF CLOSED FLUME INLET SHALL INCLUDE COST OF CONCRETE SPILLWAY.
430 175 XXX	WHERE PROPOSED PIPE IS TO CONNECT TO AN EXISTING STRUCTURE OR PIPE THE COST OF THE CONNECTION SHALL BE INHERENT TO THE COST OF PIPE. THIS INCLUDES CONCRETE COLLARS, MODIFICATION OF EXISTING STRUCTURES AND BRICK AND MORTAR.
455 14 2	COST IS PER LINEAR FOOT OF FINISHED WALL (NOT SF OF WALL AREA) AND INCLUDES CONCRETE CAP.
520 1 7 520 1 10	DROP CURB ADJACENT TO CURB RAMPS AND CONCRETE FLUMES SHALL BE PAID AS PARENT CURB TYPE. ALL CURB TO BE PAID BASED ON FIELD MEASURED INSTALLED QUANTITY.
522 2	D CURB ON BACK OF SIDEWALK AT CURB RAMP LOCATIONS SHALL BE INHERENT TO THE COST OF SIDEWALK. TOTAL SY OF SIDEWALK INCLUDES SY OF D CURB. DROP CURB AT CURB RAMP LOCATIONS TO BE PAID AS PARENT CURB.
530 3 4	COST OF FILTER FABRIC INCLUDED IN THE COST OF RIPRAP. FABRIC SHALL BE TOED IN A MINIMUM OF 1' AT THE TOP AND BOTTOM OF THE SLOPE.
570 1 2	SHALL BE PAID BASED ON FIELD MEASURED INSTALLED QUANTITY FOR AREAS INTENDED TO BE DISTURBED BY THE PROPOSED IMPROVEMENTS. NO PAYMENT WILL BE MADE FOR SODDING AREAS OUTSIDE THE PROJECT AREA DISTURBED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY AREA DISTURBED OUTSIDE THE PROJECT AREA.
751 60 1	COST INCLUDES SUBGRADE PREPARATION GRADING, 6" GEOGRID AND NO. 57 STONE.

QUANTITIES SHOWN HEREIN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT NECESSARILY COINCIDE WITH THE BID ITEMS. CONTRACTOR TO VERIFY QUANTITIES AND BID THOSE ITEMS AND QUANTITIES SHOWN ON THE BID SHEET.



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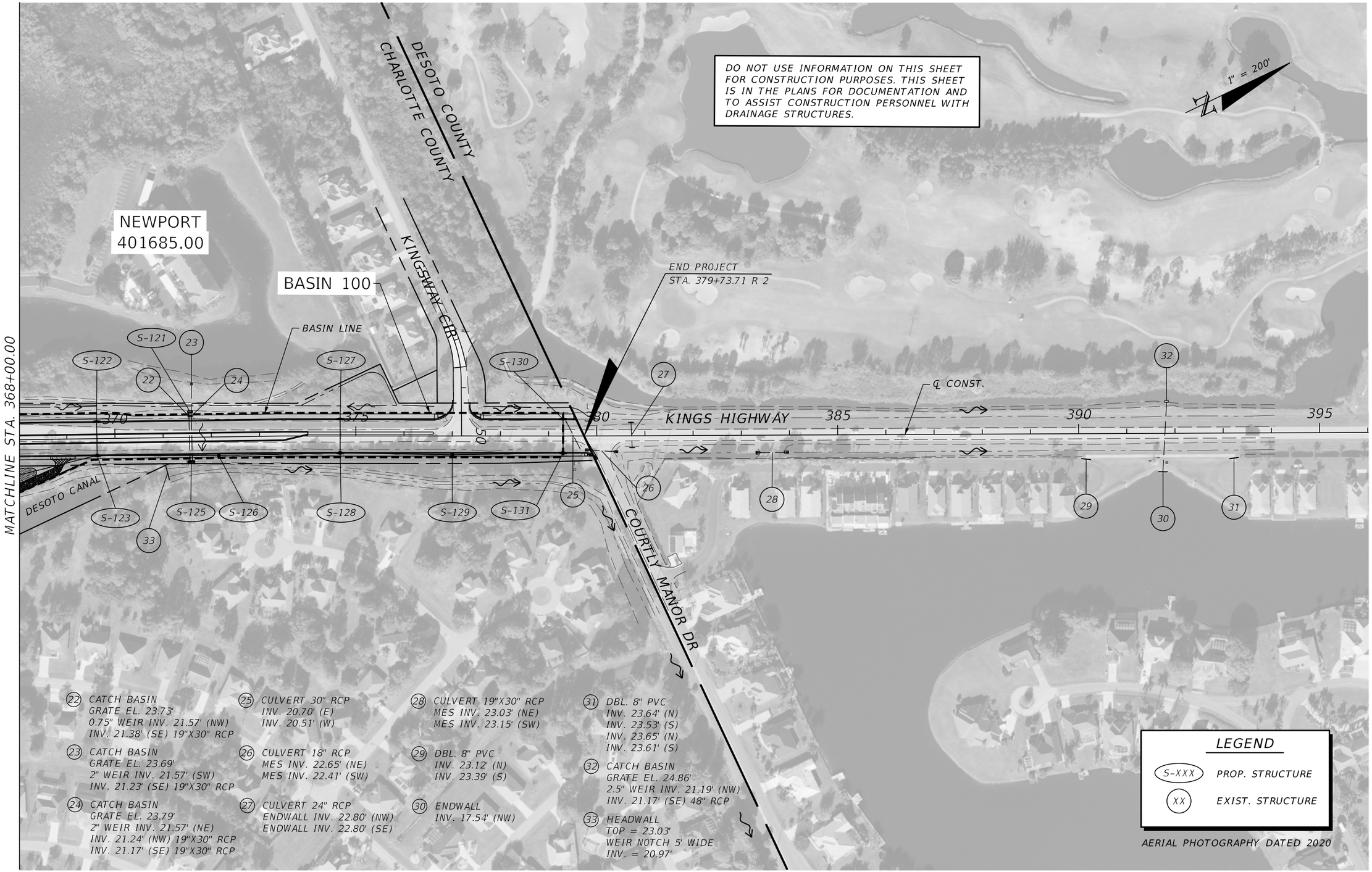
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

DRAINAGE MAP

SHEET NO. 4



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PORT CHARLOTTE, FL 33948
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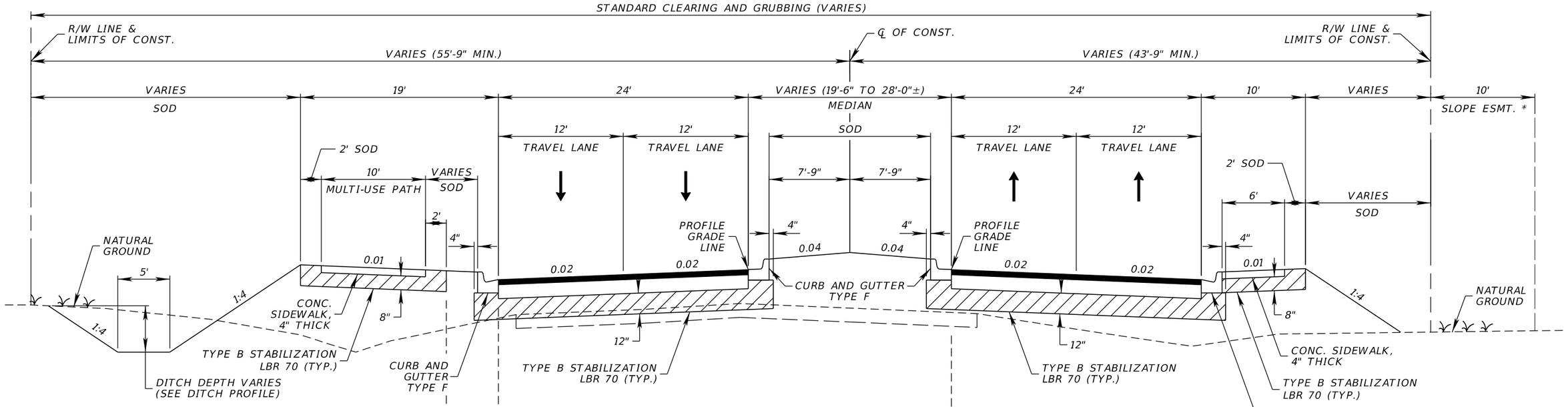
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

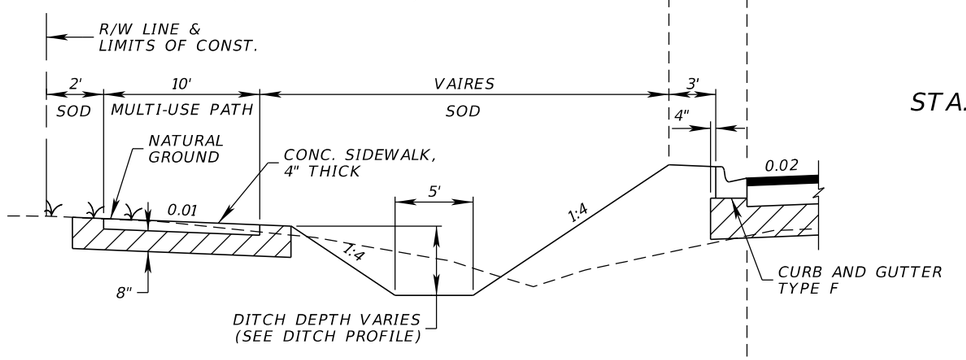
DRAINAGE MAP

SHEET NO. 5

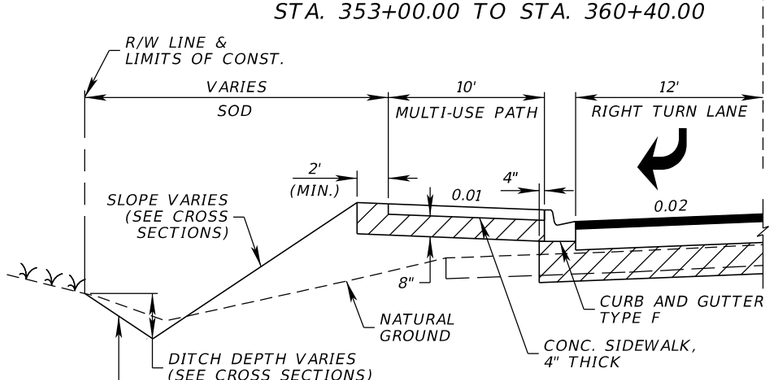


TYPICAL SECTION
KINGS HIGHWAY
STA. 346+28.59 TO STA. 370+23.38

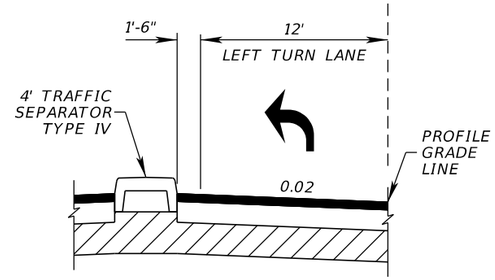
* APPROXIMATE STA. 357+90 TO STA. 364+00



RIGHT TURN LANE DETAIL
STA. 353+00.00 TO STA. 360+40.00



RIGHT TURN LANE DETAIL
STA. 346+33.59 TO STA. 352+60.00
STA. 362+66.62 TO STA. 365+16.62



LEFT TURN LANE DETAIL
STA. 358+52.93 TO STA. 361+52.93

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE S-1 STRUCTURAL COURSE (TRAFFIC C) (3")
AND FRICTION COURSE S-III (TRAFFIC C) (1 ½")

MILLING

MILL EXISTING ASPHALT
PAVEMENT FOR DEPTH (1 ½")

RESURFACING

FRICTION COURSE S-III (1 ½")

TRAFFIC DATA

DESIGN SPEED = 45 MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

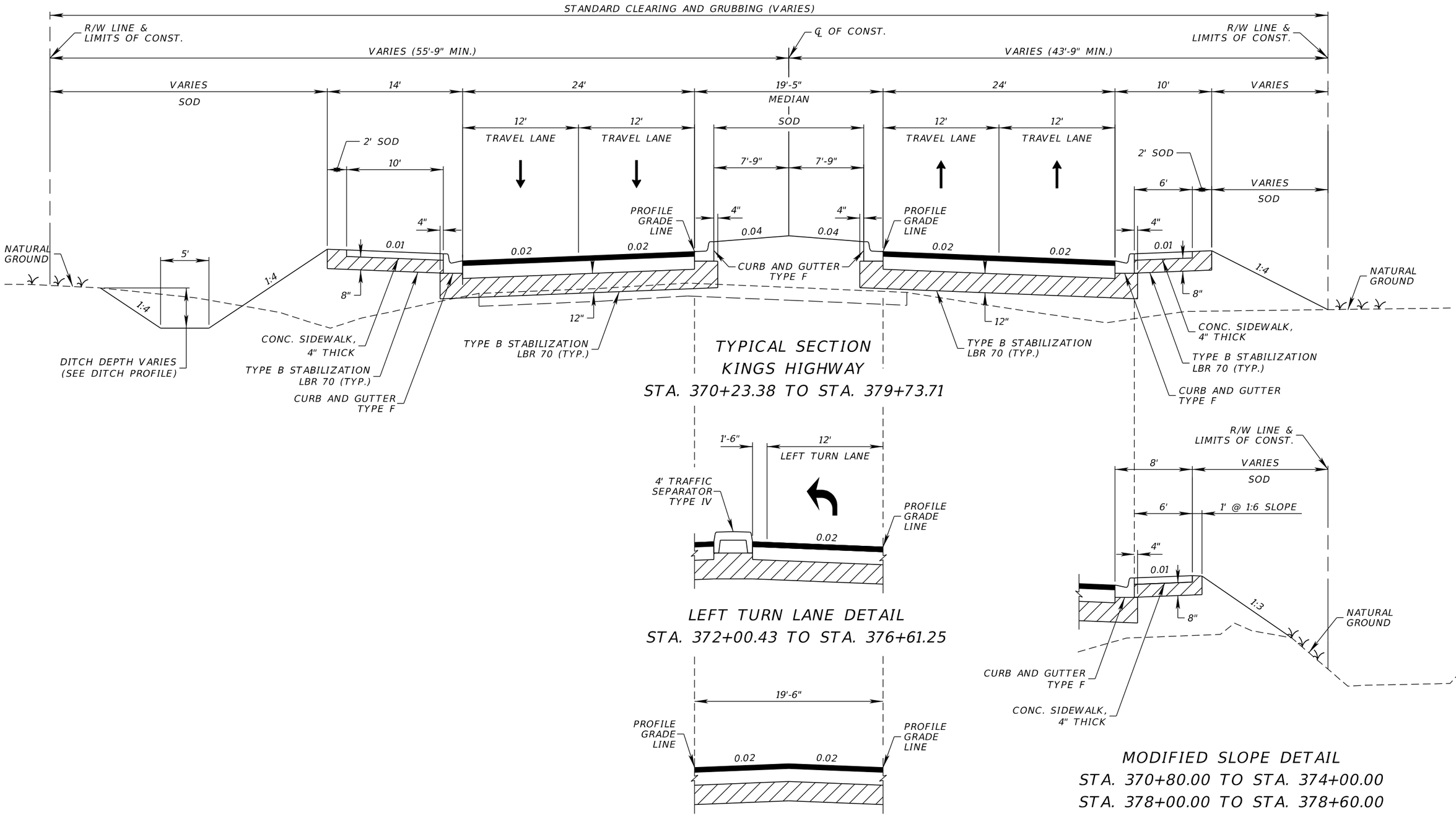
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

TYPICAL SECTION

SHEET NO. 6



TRAFFIC DATA

DESIGN SPEED = 45 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE S-1 STRUCTURAL COURSE (TRAFFIC C) (3")
AND FRICTION COURSE S-III (TRAFFIC C) (1 ½")

REVISIONS			
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JOHNSON ENGINEERING
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EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
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TYPICAL SECTION

SHEET NO. 7

GENERAL NOTES

1. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPERAND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

   C. DREW BRANCH, P.S.M.
   P.S.M. NO: #LS5542
   BANKS ENGINEERING
   4161 TAMIAMI TRAIL
   PORT CHARLOTTE, FLORIDA 33952

2. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM (NAVD 1988).

3. HORIZONTAL DATUM = NAV 83 FLORIDA STATE PLANE, WEST ZONE. (verify with survey)

4. EXISTING FACILITIES SHALL BE RESTORED TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.

5. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.

6. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

7. ALL EXCAVATION IN CLOSE PROXIMITY TO A POWER POLE SHALL UTILIZE TRENCH BOXES OR OTHER MEANS OF SHORING TO ENSURE THE POLES ARE NOT UNDERMINED.

8. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA PRIOR TO CONSTRUCTION AND CONTACT SUNSHINE STATE ONE CALL.

9. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. INFORMATION SHOWN IN UTILITY ADJUSTMENT SHEETS US BASED ON BEST AVAILABLE DATA PROVIDED BY UAO'S AND SHOULD BE CONSIDERED CONCEPTUAL IN NATURE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL UAO'S ON ANY NECESSARY RELOCATIONS OR ADJUSTMENTS.

10. UTILITY/AGENCY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBERS
CENTURYLINK	BILL MCCLOUD	(805) 599-1444
CHARLOTTE COUNTY LIGHTING - ELECTRIC	JODY MANSELL	(941) 675-3648
CHARLOTTE COUNTY UTILITIES	BRUCE BULLERT	(941) 764-4509
COMCAST	CHAD EVENER	(941) 356-1564
DESOTO COUNTY UTILITIES	JEANNINE TATUM	(863) 491-7500
FLORIDA POWER & LIGHT COMPANY (DISTRIBUTION)	CHRIS MCJUNKIN	(941) 267-7476
FLORIDA POWER & LIGHT COMPANY (TRANSMISSION)	CRAIG LEDBETER	(561) 803-7942
PEACE RIVER MANASOTA REGIONALSCOTT	CUNNINGHAM	(863) 993-4565
WATER SUPPLY AUTHORITY		
TECO PEOPLES GAS	JOAN DOMNING	(813) 275-3783

11. ANY PUBLIC LAND CORNER, BENCHMARK OR CONCRETE MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SURVEYOR SHALL NOTIFY THE COUNTY SURVEYOR PRIOR TO ANY WORK.

12. CONTRACTOR SHALL PROMPTLY REPORT ALL FIELD CHANGES TO ENGINEER.

13. CONTRACTOR SHALL ACCURATELY PLOT THE LOCATIONS, DEPTHS AND DIMENSIONS OF ALL IMPROVEMENTS ON A FINAL SET OF AS-BULTS PREPARED BY A FLORIDA REGISTERED LAND SURVEYOR. AS-BUILTS SHALL BE SIGNED AND SEALED ON 11"X17" PAPER AND DELIVERED TO THE ENGINEER PRIOR TO PROJECT COMPLETION. COST OF AS-BUILT SURVEY SHALL BE INHERENT TO OTHER PAY ITEMS IN THE CONTRACT.

14. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL.

15. CONTRACTOR TO MAINTAIN EXISTING TRAFFIC / ACCESS, EXISTING DRAINAGE AND EXISTING UTILITIES DURING CONSTRUCTION, UNLESS OTHERWISE APPROVED BY CHARLOTTE COUNTY.

16. CONSTRUCTION STAKING IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE SERVICES DURING CONSTRUCTION.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CONSTRUCTION-RELATED PERMITTING. PAYMENT FOR ACQUISITION OF CONSTRUCTION-RELATED PERMITS SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION-RELATED ACTIVITIES. NO ADDITIONAL PAYMENT SHALL BE MADE.

18. CONTRACTOR SHALL OBTAIN A NPDES PERMIT, IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN AND ABIDE BY ALL NPDES REQUIREMENTS. ALL APPLICABLE COST SHALL BE INHERENT TO EROSION CONTROL PAY ITEM.

19. CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT MANAGER. THE CONTRACTOR SHALL PROVIDE THE PROJECT MANAGER WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED AN MSDS SUBMITTAL.

    ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT MANAGER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE PROJECT MANAGER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT MANAGER.

20. PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS, INCLUDING TROPICAL SODA APPLE, SHALL BE FURNISHED TO THE PROJECT MANAGER BY THE CONTRACTOR. ALL SOD MATERIALS SHALL BE SUBJECT TO INSPECTION BY THE COUNTY OR APPOINTED REPRESENTATIVE PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES, INCLUDING TROPICAL SODA APPLE, SHALL BE REJECTED FOR USE ON THE PROJECT.

21. AT THE COMPLETION OF THIS PROJECT, ALL DISTURBED SURFACES SHALL BE COVERED BY TURF.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING CONVEYANCES AND DRAINAGE CONNECTIONS WITHIN THE PROJECT LIMITS AT ALL TIMES. ANY EXISTING DRAINAGE FEATURES TO BE REMOVED OR REPLACED SHALL HAVE EQUAL OR BETTER CAPACITY IN PLACE PRIOR TO THAT FEATURE BEING IMPACTED. ALL COST FOR TEMPORARY DRAINAGE SHALL BE INHERENT TO OTHER PAY ITEMS.

23. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES MAY EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION AT THESE LOCATIONS. PRE-MIXED MATERIAL OR BASE IN LIEU OF IS SUGGESTED IN THESE AREAS.

24. STATION/OFFSETS SHOWN FOR MITERED END SECTIONS ARE TO THE END OF THE STRUCTURE AT THE CENTERLINE OF THE PIPE

25. FOR CURB INLETS WITHIN OR ADJACENT TO SIDEWALK THE TOPS SHALL BE SET/ADJUSTED SUCH THAT TOP OF INLET IS FLUSH WITH SURROUNDING SHARED USE PATH AND MEET ALL ADA REQUIREMENTS. EDGES ADJACENT TO CONCRETE SHARED USE PATH SHALL HAVE 1/2" EXPANSION JOINT MATERIAL. ALL EXPANSION JOINTS SHALL HAVE ZIP STRIP AND SIKAFLEX CAULKING. COST IN CONSIDERED INHERENT TO THE DRAINAGE STRUCTURE.

26. CONTRACTOR SHALL REPLACE ANY EXISTING SIDE STREET MARKINGS OBLITERATED DURING CONSTRUCTION.

27. ALL PROPOSED PIPE WITHIN THE RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (RCP/ERCP).

28. SOD QUANTITY INCLUDES ONLY THOSE AREAS INTENDED TO BE DISTURBED BY PROPOSED IMPROVEMENTS. OTHER DISTURBED AREAS NOT INTENDED TO BE DISTURBED, INCLUDING BUT NOT LIMITED TO STAGING AREAS, STOCKPILE AREAS, ETC., SHALL BE SODDED AT NO ADDITIONAL COST.

29. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN THE PLANS.

30. CONTRACTOR TO NOTIFY THE PROJECT MANAGER IMMEDIATELY IF UNSUITABLE SUBSOIL CONDITIONS ARE ENCOUNTERED. IF UNSUITABLE MATERIAL IS TO BE REMOVED, PER CHARLOTTE COUNTY PROJECT MANAGER, PAYMENT SHALL BE MADE UTILIZING EXISTING EXCAVATION AND EMBANKMENT BID ITEMS.

31. CONTRACTOR SHALL BE AWARE OF EXISTING UTILITIES TO REMAIN ALONG THE CORRIDOR, CARE SHALL BE TAKEN NOT TO DAMAGE THESE FACILITIES DURING CONSTRUCTION.

32. THE CONTRACTOR SHALL BE AWARE OF THE POSSIBLE PRESENCE OF ROCK WITHIN THE PROJECT LIMITS THAT MAY BE ENCOUNTERED WHILE PERFORMING EXCAVATIONS AND UNDERGROUND INSTALLATIONS. GEOTECHNICAL REPORTS WITH BORINGS ARE INCLUDED IN THE CONTRACT DOCUMENTS FOR INFORMATIONAL PURPOSES ONLY, AS THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR FINAL SUBSURFACE DETERMINATION. THE CONTRACTOR SHALL CONSIDER THE INCREASE IN COST FOR ALL UNDERGROUND WORK ACTIVITIES AND INCLUDE SUCH COSTS IN HIS BID. ALL COSTS ASSOCIATED WITH ENCOUNTERED ROCK OR ROCK-LIKE MATERIAL SHALL BE INCLUDED IN THE APPROPRIATE ITEMS OF WORK CONTAINED WITHIN THE CONTRACT. NO ADDITIONAL COMPENSATION WILL BE MADE.

33. DEWATERING IS NOT INCLUDED IN CURRENT PERMITS. IF THE CONTRACTOR CHOOSES TO DEWATER A PERMIT MUST BE OBTAINED AT THE CONTRACTORS EXPENSE. ALL ASSOCIATED PERMITTING AND DEWATERING COSTS SHALL BE INHERENT TO OTHER PAY ITEMS. NO ADDITIONAL PAYMENT WILL BE MADE.

34. CLEARING AND GRUBBING IS INTENDED ONLY FOR THOSE AREAS WITHIN THE FOOTPRINT OF ACTUAL IMPROVEMENTS. CONTACTOR SHALL SET SILT FENCE AT APPROXIMATE EDGE OF IMPROVEMENTS PER CROSS SECTIONS AND CONFIRM WITH THE COUNTY PRIOR TO CLEARING. EXISTING VEGETATION WITHIN EASEMENTS BUT OUTSIDE IMPACT FOOTPRINT SHALL REMAIN AS IS.

35. REFER TO FDOT STANDARD PLANS FOR ROAD CONSTRUCTION STANDARD FY 2024-25 ABBREVIATION SHEET FOR ABBREVIATIONS SHOWN IN PLANS.

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
160 4 8	TYPE B STABILIZATION (LBR 70), 8"	346+36.73 to 347+85.06		RT	7212	SY	128.5		7507		SIDEWALK	
		346+60.00 to 349+50.39		LT	17274		386.7				SIDEWALK	
		348+38.52 to 349+49.79		RT	7222		100.1				SIDEWALK	
		349+49.75 to 356+49.99		RT	7249		668.5				SIDEWALK	
		349+50.32 to 356+50.01		LT	17279		1038.4				SIDEWALK	
		356+49.99 to 363+50.00		RT	7267		622.1				SIDEWALK	
		356+50.01 to 361+71.24		LT	17303		807.3				SIDEWALK	
		362+46.58 to 363+50.00		LT	7275		128.8				SIDEWALK	
		363+50.00 to 370+50.00		RT	7308		622.8				SIDEWALK	
		363+50.00 to 370+50.00		LT	17314		1051.2				SIDEWALK	
		370+50.00 to 376+90.60		LT	7324		843.5				SIDEWALK	
		370+50.00 to 377+50.00		RT	7317		621.7				SIDEWALK	
		377+41.69 to 377+50.00		LT	7331		4.1				SIDEWALK	
		377+50.00 to 379+56.96		LT	7335		270.0				SIDEWALK	
		377+50.00 to 379+96.10		RT	7342		212.9				SIDEWALK	
160 4 12	TYPE B STABILIZATION (LBR 70), 12"	346+80.00 to 349+49.94		RT	6906	SY	1195.4		25617.0		ROADWAY	
		346+80.00 to 349+50.32		LT	6901		1579.8				ROADWAY	
		349+49.79 to 356+50.00		RT	6918		2251.0				ROADWAY	
		349+50.03 to 356+50.01		LT	6925		2787.1				ROADWAY	
		350+40.00 to 350+86.77		LT/RT	13722		68.8				ROADWAY	
		356+49.99 to 363+50.00		LT/RT	6938		5620.7				ROADWAY	
		363+50.00 to 370+50.00		RT	6976		2230.3				ROADWAY	
		363+50.00 to 370+50.00		LT	6965		2419.4				ROADWAY	
		363+89.73 to 364+36.83		RT	13738		36.6				ROADWAY	
		368+65.96 to 369+17.20		RT	13727		36.6				ROADWAY	
		370+50.00 to 377+50.00		LT/RT	15909		5068.3				ROADWAY	
		376+62.89 to 377+50.00		LT	15923		508.1				ROADWAY	
		377+50.00 to 380+02.05		LT/RT	7002		1814.9				ROADWAY	
285 7 09	OPTIONAL BASE, BASE GROUP 09	346+80.00 to 349+49.93		RT	6170	SY	1054.3		22461			
		346+80.00 to 349+50.31		LT	6165		1440.0					
		349+49.80 to 356+50.00		RT	6215		1885.0					
		349+50.04 to 356+50.01		LT	6202		2428.4					
		356+49.99 to 363+50.00		LT/RT	6222		5084.1					
		363+50.00 to 370+50.00		RT	6260		1867.6					
		363+50.00 to 370+50.00		LT	6249		2056.8					
		370+50.00 to 377+50.00		LT/RT	15939		4524.1					
		376+62.89 to 377+50.00		LT	15953		426.2					
		377+50.00 to 380+02.05		LT/RT	6286		1694.9					
327 70 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	346+21.61 to 346+80.00		LT	4521	SY	303.1		714			
		346+28.90 to 346+80.00		RT	4529		188.4					
		376+83.02 to 377+29.22		LT	15687		222.2				KINGSWAY CIRCLE	
331 2A	TYPE S-I ASPHALT CONCRETE, 3"	346+80.00 to 349+49.93		RT	15884	TN	173.96		3706.1			
		346+80.00 to 349+50.31		LT	15879		237.60					
		349+49.80 to 356+50.00		RT	5591		311.03					
		349+50.04 to 356+50.01		LT	5578		400.69					
		356+49.99 to 363+50.00		LT/RT	5551		838.87					
		363+50.00 to 370+50.00		LT	5531		339.37					
		363+50.00 to 370+50.00		RT	5542		308.16					
		370+50.00 to 377+50.00		LT/RT	15791		746.47					
		376+62.89 to 377+50.00		LT	15897		70.32					

QUANTITIES SHOWN HEREIN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT NECESSARILY COINCIDE WITH THE BID ITEMS. CONTRACTOR TO VERIFY QUANTITIES AND BID THOSE ITEMS AND QUANTITIES SHOWN ON THE BID SHEET.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SUMMARY OF QUANTITIES

SHEET NO.
SQ-1

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
331 2A	TYPE S-I ASPHALT CONCRETE, 3" (CONT'D)	377+50.00 to 380+02.05		LT/RT	5506	TN	279.66					
331 2B	TYPE S-III ASPHALT CONCRETE, 1.5"	346+21.61 to 349+50.31		LT	5345	TN	143.80		1913.8			
		346+28.59 to 349+49.93		LT/RT	5353		104.39					
		349+49.80 to 356+50.00		RT	5338		155.51					
		349+50.04 to 356+50.01		LT	5325		200.34					
		356+49.99 to 363+50.00		LT/RT	5298		419.44					
		363+50.00 to 370+50.00		LT	5278		169.69					
		363+50.00 to 370+50.00		RT	5289		154.08					
		370+50.00 to 377+50.00		LT/RT	15837		373.24					
		376+62.87 to 377+50.00		LT	15851		53.49					
		377+50.00 to 380+02.05		LT/RT	5253		139.83					
530 3 4	RIPRAP, RUBBLE, F&I, DITCH LINING, 12"	346+80.00		LT	18316	SY	3.89		31			
		364+80.74		RT	9750		10.22					
		367+48.37		RT	9755		10.22					
		371+57.63		RT	18311		6.80					

SUMMARY OF SIDEWALK

LOCATION	SIDE	AREA ID	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DESIGN NOTES	CONSTRUCTION REMARKS
			522 1		522 2			
STA. TO STA.			SY		SY			
			P	F	P	F		
346+22.47 to 349+50.00	LT	3555	354.7					
346+36.73 to 347+83.38	RT	3535	95.8					
348+39.54 to 349+50.00	RT	3545	74.7					
349+50.00 to 350+39.38	RT	3679	63.8					
349+50.32 to 350+56.20	LT	3668	116.7					
350+78.54 to 356+49.99	RT	3704	389.9					
350+97.52 to 356+50.01	LT	16022	602.7					
356+49.99 to 363+50.00	RT	3715	466.6					
356+50.01 to 361+69.82	LT	16042	577.1					
362+48.11 to 363+50.00	LT	3722	105.9					
363+50.00 to 363+89.73	RT	9818	26.4					
363+50.00 to 370+50.00	LT	3727	780.8					
364+36.83 to 368+65.96	RT	9824	285.9					
369+17.20 to 370+50.00	RT	9833	88.5					
370+50.00 to 376+88.58	LT	3768	701.2					
370+50.00 to 377+50.00	RT	3761	466.3					
377+43.22 to 377+50.00	LT	3757	2.4					
377+50.00 to 379+56.96	LT	3746	225.2					
377+50.00 to 379+93.54	RT	3752	158.4					
346+31.85 to 346+39.81	LT/RT	9597			5.9		BULL NOSE	
350+29.40 to 350+88.30	RT	4306			139.8		DRIVEWAY NO.1	
350+45.85 to 351+07.77	LT	4295			121.0		DRIVEWAY NO.2	
362+68.25 to 362+74.56	LT/RT	9602			5.7		BULL NOSE	
363+89.73 to 364+36.83	RT	9799			30.5		POND ENT.1	
368+65.96 to 369+17.20	RT	9794			32.7		POND ENT.2	
		SUB-TOTAL:	5583.0		335.6			
		TOTAL:	5583		336			

QUANTITIES SHOWN HEREIN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT NECESSARILY COINCIDE WITH THE BID ITEMS. CONTRACTOR TO VERIFY QUANTITIES AND BID THOSE ITEMS AND QUANTITIES SHOWN ON THE BID SHEET.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SUMMARY OF QUANTITIES

SHEET NO.
SQ-2

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	PERFORMANCE TURF (SOD) 570 1 2 SY P	F	DESIGN NOTES	CONSTRUCTION REMARKS
346+25.00 to 349+50.39	LT	7861	72.2			
346+36.99 to 349+50.03	LT/RT	8019	618.0		0.04 SLOPE	
346+38.16 to 347+84.84	RT	7848	32.6			
348+38.72 to 349+49.76	RT	7868	25.5			
349+49.53 to 350+49.65	RT	8161	396.9		1:4 SLOPE	
349+49.75 to 350+40.18	RT	7881	20.7			
349+49.94 to 350+56.29	LT/RT	8026	182.2		0.04 SLOPE	
349+50.38 to 350+57.08	LT	7890	23.0			
349+50.39 to 350+61.43	LT	8303	151.9		1:3 SLOPE	
350+69.06 to 356+49.99	RT	8138	1137.0		1:4 SLOPE	
350+77.81 to 356+49.99	RT	7916	129.5		0.01 SLOPE	
350+86.77 to 356+50.00	LT/RT	8034	1174.9		0.04 SLOPE	
350+92.80 to 356+50.01	LT	16093	488.2		1:4 SLOPE	
351+85.72 to 356+49.99	RT	8150	542.8		1:4 SLOPE	
352+17.65 to 356+50.01	LT	16111	1058.1		1:4 SLOPE	
353+00.00 to 356+50.01	LT	16065	129.7		DITCH BOTTOM	
356+49.99 to 363+50.00	RT	8128	801.5		1:4 SLOPE	
356+49.99 to 363+50.00	RT	8120	961.9		1:4 SLOPE	
356+49.99 to 363+50.00	RT	7935	155.5		0.01 SLOPE	
356+50.00 to 359+04.61	LT/RT	8044	405.6		0.04 SLOPE	
356+50.01 to 360+39.74	LT	16075	303.3		DITCH BOTTOM	
356+50.01 to 361+58.41	LT	16134	1264.8		1:4 SLOPE	
359+13.59 to 359+13.59	LT	16172	390.2		1:4 SLOPE	
361+04.57 to 361+63.58	LT	16088	30.6		DITCH BOTTOM	
362+41.58 to 363+50.00	LT	8369	209.4		1:4 SLOPE	
362+46.58 to 363+50.00	LT	7948	22.8		0.01 SLOPE	
362+66.43 to 363+50.00	LT	8494	46.4		DITCH BOTTOM	
362+74.56 to 363+50.00	LT/RT	8052	120.7		0.04 SLOPE	
363+50.00 to 363+99.53	RT	7943	10.3		0.01 SLOPE	
363+50.00 to 364+09.20	RT	8114	66.3		1:4 SLOPE	
363+50.00 to 364+11.06	RT	8107	78.8		1:4 SLOPE	
363+50.00 to 370+50.00	LT	7954	155.6		0.01 SLOPE	
363+50.00 to 370+50.00	LT	8401	367.4		1:4 SLOPE	
363+50.00 to 370+50.00	LT	8475	388.2		DITCH BOTTOM	
363+50.00 to 370+50.00	LT	8383	1068.7		1:4 SLOPE	
363+50.00 to 370+50.00	LT/RT	8058	1206.5		0.04 SLOPE	
364+04.62 to 364+94.89	RT	8574	121.6			
364+27.66 to 368+75.55	RT	8101	585.1		1:4 SLOPE	
364+30.83 to 368+71.96	RT	7971	97.2		0.01 SLOPE	
368+92.62 to 370+50.00	RT	8096	184.2		1:4 SLOPE	
369+06.43 to 370+50.00	RT	7978	31.1		0.01 SLOPE	
370+50.00 to 370+80.00	RT	7983	6.7		0.01 SLOPE	
370+50.00 to 371+00.02	RT	8089	56.9		1:4 SLOPE	
370+50.00 to 374+00.43	LT/RT	8067	570.3		0.04 SLOPE	
370+50.00 to 376+62.82	LT	8456	1176.2		DITCH BOTTOM	
370+50.00 to 376+90.60	LT	7988	142.3		0.01 SLOPE	
370+50.00 to 377+00.09	LT	8413	1337.9		1:4 SLOPE	
		SUB-TOTAL:	18547.2			
		TOTAL:	20375			

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	PERFORMANCE TURF (SOD) 570 1 2 SY P	F	DESIGN NOTES	CONSTRUCTION REMARKS
373+80.00 to 377+50.00	RT	8081	554.0		1:4 SLOPE	
374+00.00 to 377+50.00	RT	8002	77.8		0.01 SLOPE	
376+73.95 to 377+02.87	LT	16217	175.8		1:4 SLOPE	
377+01.92 to 377+18.65	LT	16204	15.6		1:4 SLOPE	
377+29.09 to 377+45.02	LT	16208	107.1		1:4 SLOPE	
377+36.70 to 377+50.00	LT	8443	28.4		1:4 SLOPE	
377+41.69 to 377+50.00	LT	7996	1.7		0.01 SLOPE	
377+50.00 to 379+51.34	LT	8451	470.7		1:4 SLOPE	
377+50.00 to 379+52.28	LT	8014	44.8		0.01 SLOPE	
377+50.00 to 379+96.10	RT	8007	54.5		0.01 SLOPE	
377+50.00 to 379+97.02	RT	8074	297.2		1:4 SLOPE	
		SUB-TOTAL:	1827.6			

SUMMARY OF RAILING

LOCATION STA. TO STA.	SIDE	PIPE HANDRAIL - GUIDERAIL (ALUMINUM) 0515 1 2 LF P	F	DESIGN NOTES	CONSTRUCTION REMARKS
346+70.00 R2 to 346+90.00 R2	LT	20.0			
	SUB-TOTAL:	20.0			
	TOTAL:	20			

QUANTITIES SHOWN HEREIN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT NECESSARILY COINCIDE WITH THE BID ITEMS. CONTRACTOR TO VERIFY QUANTITIES AND BID THOSE ITEMS AND QUANTITIES SHOWN ON THE BID SHEET.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SUMMARY OF QUANTITIES

SHEET NO. SQ-3

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY GROSS LENGTH	DEDUCTIONS TYPE	DEDUCTIONS LENGTH	NET LENGTH P	NET LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
520 1 7	CONCRETE CURB & GUTTER, TYPE E	350+40.00 to 350+86.75	LT		LF	46.6			46.6		193			
		350+40.00 to 350+86.77	RT			47.0			47.0					
		363+89.73 to 364+01.71	RT			12.3			12.3					
		364+01.71 to 364+36.83	RT			35.4			35.4					
		368+65.96 to 369+17.39	RT			51.4			51.4					
520 1 10	CONCRETE CURB & GUTTER, TYPE F	346+31.56 to 350+40.00	LT/RT		LF	826.9		21.0	805.9		10950			
		346+36.61 to 347+73.82	RT			137.9			137.9					
		346+59.85 to 350+52.02	LT			388.9		6.0	382.9					
		347+77.61 to 347+84.61	RT			14.6			14.6					
		347+78.48 to 347+92.67	RT			27.0			27.0					
		348+34.49 to 348+47.21	RT			26.7			26.7					
		348+38.63 to 348+47.71	RT			14.1			14.1					
		348+44.69 to 350+35.27	RT			195.2			195.2					
		350+82.38 to 363+89.73	RT			1315.4			1315.4					
		350+86.75 to 359+04.61	LT			816.5			816.5					
		350+86.77 to 359+04.61	LT/RT			821.2		16.0	805.2					
		351+01.57 to 361+58.66	LT			1050.2		32.0	1018.2					
		361+70.68 to 361+77.69	LT			27.8			27.8					
		361+71.67 to 361+78.44	LT			10.8			10.8					
		362+40.75 to 362+50.86	LT			14.1			14.1					
		362+42.13 to 362+50.86	LT			23.6			23.6					
		362+62.43 to 376+69.98	LT			1408.8		48.0	1360.8					
		362+68.03 to 374+00.43	LT/RT			2275.6			2275.6					
		364+36.83 to 368+65.96	RT			429.1		16.0	413.1					
		369+17.20 to 379+80.69	RT			1063.2		48.0	1015.2					
		376+89.37 to 377+01.00	LT			31.7			31.7					
		377+36.45 to 377+42.65	LT			25.0			25.0					
		377+58.84 to 379+57.90	LT			199.2		16.0	183.2					
		379+94.24 to 380+00.25	RT			9.4			9.4					
520 5 41	TRAFFIC SEPARATOR, CONCRETE, TYPE IV, 4' WIDE	359+04.61 to 361+54.67	LT		LF	125.0			125.0		516			
		359+04.61 to 361+54.67	LT			125.0			125.0					
		361+54.67 to 361+54.67	LT			3.5			3.5					
		374+00.43 to 376+59.00	LT			129.3			129.3					
		374+00.43 to 376+59.00	LT			129.3			129.3					
		376+59.00 to 376+59.00	LT			3.5			3.5					

SUMMARY OF PIPE DESILTING

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
430 94 1	15" RCP	348+01.07	RT	LF	76.6		555		CONNECTINGTO S-103	
	24" RCP	347+76.56 TO 348+51.59	RT	LF	75.1				7-ELEVEN ENTRANCE	
	19"x30" RCP	361+63.58 TO 362+58.94	LT	LF	95.4				NEWPORT CONDOMINIUMS ENTRANCE	
	19"x30" RCP	361+63.58 TO 362+58.94	LT	LF	95.4				NEWPORT CONDOMINIUMS ENTRANCE	
	19"x30" RCP	371+54.53	LT/RT	LF	78.5				PIPE CROSSING NORTHEAST OF POND 100	
	19"x30" RCP	371+59.62	LT/RT	LF	78.5				PIPE CROSSING NORTHEAST OF POND 100	
	24" RCP	380+72.32	LT/RT	LF	55.3				COURTLY MANOR DRIVE	

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SUMMARY OF QUANTITIES

SHEET NO.
SQ-4

SUMMARY OF CONCRETE SHEET PILING

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
455 14 2	CONCRETE SHEET PILING, 8"x30"	364+10.48 TO 364+94.38	RT	LF	202.7		670		POND 100	
		364+94.38 TO 369+22.94	RT	LF	467.1				POND 100	

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER 104 10 3 LF P	SEDIMENT BARRIER 104 10 3 LF F	FLOATING TURBIDITY BARRIER 104 11 LF P	FLOATING TURBIDITY BARRIER 104 11 LF F	INLET PROTECTION SYSTEM 104 18 EA P	INLET PROTECTION SYSTEM 104 18 EA F	DESIGN NOTES	CONSTRUCTION REMARKS
346+00.13 to 347+91.64	RT		191.5							
346+07.21 to 349+01.31	LT		309.5							
348+33.97 to 350+49.65	RT		222.5							
349+01.31 to 350+61.43	LT		154.9							
350+69.06 to 352+63.31	RT		215.1							
350+92.80 to 351+98.08	LT		100.6							
351+98.08 to 351+98.30	LT		10.0							
351+98.30 to 354+81.64	LT		271.8							
352+63.31 to 353+52.38	RT		92.5							
354+81.64 to 354+81.70	LT		2.9							
354+81.70 to 361+81.05	LT		698.0							
362+38.10 to 377+02.52	LT		1533.9							
364+06.90 to 371+38.11	RT		891.6							
371+74.57 to 379+97.02	RT		882.1							
377+34.50 to 379+41.41	LT		206.9							
353+52.80 to 364+06.90	RT		1061.2							
379+41.41 to 381+00.00	LT		160.5							
381+00.00 to 381+00.00	LT		29.3							
365+78.90 to 366+49.24	RT				85.9					
365+80.85 to 366+44.53	RT				77.8					
371+38.31 to 371+74.03	RT				50.4					
346+27.49 to 346+46.34	LT						1			
346+39.85 to 346+56.88	RT						1			
347+61.67 to 347+78.70	RT						1			
348+49.70 to 348+66.73	RT						1			
350+24.74 to 350+34.44	LT						1			
361+51.58 to 361+67.46	LT						1			
362+51.87 to 362+67.76	LT						1			
SUB-TOTAL:			7034.8		214.1		7			
TOTAL:			7035		214		7			

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REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SUMMARY OF QUANTITIES

SHEET NO. SQ-5

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN ROUND 18"	STORM DRAIN ROUND 24"	STORM DRAIN ROUND 30"	STORM DRAIN ROUND 36"	STORM DRAIN ELLIPSE 19" x 30"	CURB INLETS P-3 <10'	CURB INLETS P-4 <10'	CURB INLETS P-5 <10'	CURB INLETS P-6 <10'	CURB INLETS J-6 <10'	CURB INLETS CLOSE FLUME - TYPE 1 SINGLE BARREL	CURB INLETS C MOD	DITCH BOTTOM INLETS D MOD	DITCH BOTTOM INLETS H <10'	MANHOLES P-8 <10'	MANHOLES J-8 <10'	MANHOLES J-8 >10'	MITERED END SECTION ROUND 24"	MITERED END SECTION ELLIPSE 19"x30"	CLASS II CONC. CY	REMARKS
P	S-101	346+80.00	LT.	Inlet	1											1										
F																										
P	S-102	346+80.11	RT.	Inlet, Pipe	1	117						1														
F																										
P	S-103	348+01.10	RT.	Inlet	1						1															
F																										
P	S-104	350+26.29	RT.	MES, Pipe	1					56														1		
F																										
P	S-105	350+95.79	RT.	MES	1																			1		
F																										
P	S-106A	350+29.91	LT.	Inlet	1												1									
F																										
P	S-106	351+89.00	LT.	Inlet, Pipe	1	59								1												
F																										
P	S-107	351+89.00	RT.	Inlet, Pipe	1		27							1												
F																										
P	S-108	351+89.00	RT.	Manhole, Pipe	1		380													1						
F																										
P	S-109	355+67.00	RT.	Manhole, Pipe	1			244													1					
F																										
P	S-110	355+67.00	RT.	Inlet, Pipe	1	27							1													
F																										
P	S-111	352+13.43	LT.	Inlet	1													1								
F																										
P	S-112	358+15.00	LT.	Inlet, Pipe	1	66								1												
F																										
P	S-113	358+15.00	RT.	Inlet, Pipe	1				321						1											
F																										
P	S-114	361+40.00	RT.	Manhole, Pipe	1				314												1					
F																										
P	S-115	360+39.21	LT.	MES, Pipe						104														2		
F																										
P	S-116	361+05.15	LT.	MES																				2		
F																										
P	S-117	364+57.50	LT.	Inlet, Pipe	1	78								1												
F																										
P	S-118	364+57.50	RT.	Inlet, Pipe	1				40						1											
F																										
P	S-119	364+78.71	RT.	Endwall	1																				4.53	
F																										
P	S-120	367+52.19	RT.	Endwall, Pipe	1				214																4.53	
F																										
P	S-121	371+56.51	LT.	Inlet						18									1							Tie into Exist. Dbl. 19"x30" Pipe
F																										
P	S-122	369+62.50	LT.	Inlet, Pipe	1	66								1												
F																										
P	S-123	369+62.50	RT.	Inlet, Pipe	1			249							1											
F																										
P	S-125	371+56.51	RT.	Endwall, Pipe						32															2.55	Connect to Exist. Dbl. 19"x30" W/ Concrete Collar
F																										
P	S-126	372+15.00	RT.	Manhole, Pipe	1			248														1				
F																										
P	S-127	374+67.50	LT.	Inlet, Pipe	1	66								1												
F																										
P	S-128	374+67.50	RT.	Inlet, Pipe	1		229								1											
F																										
P	S-129	377+00.00	RT.	Manhole, Pipe	1		226													1						
F																										
P	S-130	379+30.00	LT.	Inlet, Pipe	1	66								1												
F																										
P	S-131	379+30.00	RT.	Inlet, Pipe	1									1												
F																										
P	S-132	366+15.82	RT.	MES, Pipe	1		27																1			Outfall
F																										
P	CS-100	366+00.00	RT.	Inlet	1													1								Control Structure Pond 100 (Includes Skimmer)
F																										
P																										
F																										
Sheet Summary				P Total		545	889	741	889	210	1	1	1	8	4	1	1	2	1	2	2	1	1	6	11.6	
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Final Summary				P Total		545	889	741	889	210	1	1	1	8	4	1	1	2	1	2	2	1	1	6	11.6	
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

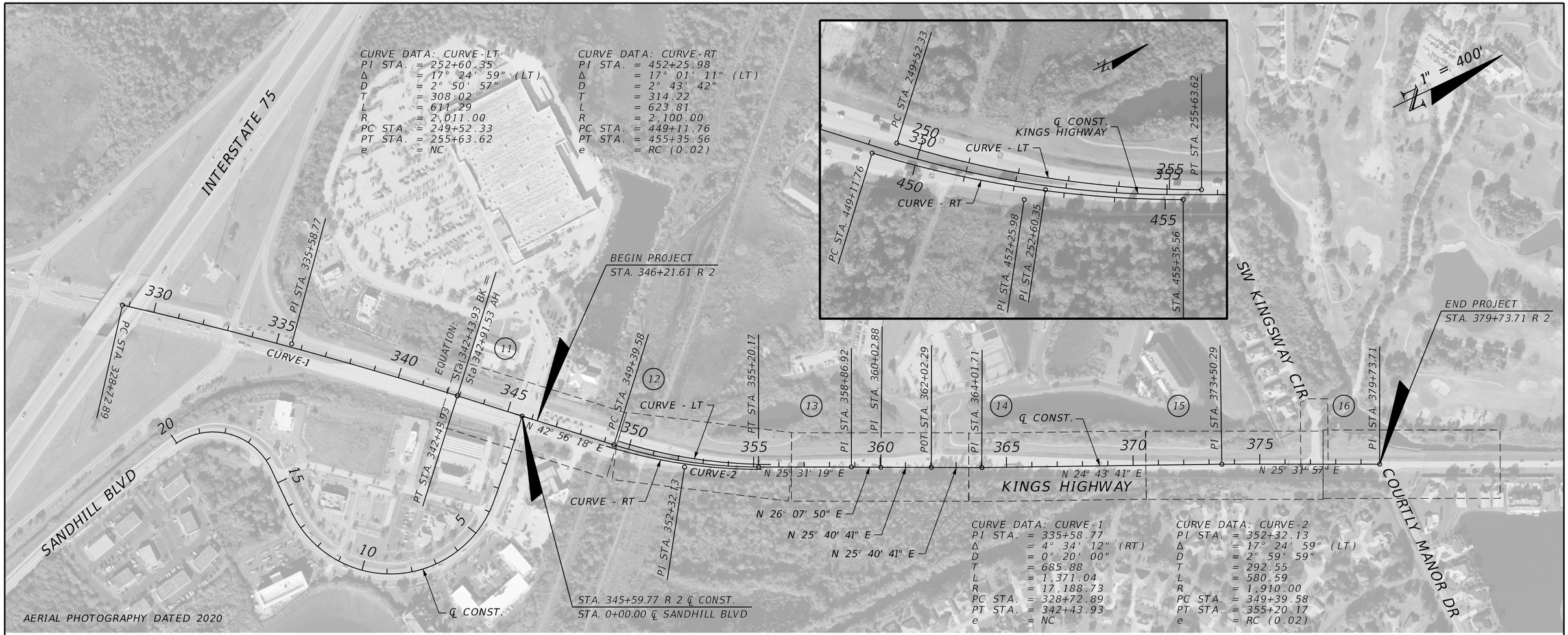
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 9



HORIZONTAL AND VERTICAL CONTROL

CONTROL POINT	℄ STATION	OFFSET	ELEVATION (Z)	DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	SCALE FACTOR
CP1	332+18.65	407.94' RT.	23.35'	4"X4" CONCRETE MONUMENT PLS4909	976594.94	640910.63			1.0000
CP2	334+86.23	215.16' RT.	23.71'	4"X4" CONCRETE MONUMENT LB6639	976920.12	640931.64			1.0000
CP3	334+66.59	381.46' LT.	23.42'	4"X4" CONCRETE MONUMENT LB7143	977291.59	640464.35			1.0000
CP4	336+77.51	149.92' LT.	24.09'	CONTROL POINT 5/8" IRON ROD (FL-DOT)	977303.01	640779.55			1.0000
CP5	340+76.61	110.10' LT.	24.37'	4"X4" CONCRETE MONUMENT LB7143	977576.68	641076.84			1.0000
CP6	341+86.13	112.44' RT.	23.00'	4"X4" CONCRETE MONUMENT (ILLEGIBLE)	977506.82	641314.82			1.0000
CP7	345+07.29	95.00' LT.	26.36'	4"X4" CONCRETE MONUMENT LB7143	977848.19	641348.97			1.0000
CP8	351+51.28	60.57' RT.	23.23	4"X4" CONCRETE MONUMENT LB6690	978226.50	641896.98			1.0000
CP9	351+46.15	114.85' LT.	23.64'	5/8" IRON ROD LB6690	978327.19	641753.25			1.0000
CP10	355+10.85	103.25' LT.	26.33'	5/8" IRON ROD LB6690	978614.67	641941.35			1.0000
CP11	357+76.33	85.62' LT.	25.23'	5/8" IRON ROD LB6690	978846.18	642071.44			1.0000
CP12	357+07.94	42.63' RT.	23.96'	5/8" IRON ROD LB6690	978729.21	642157.71			1.0000
CP13	360+03.95	42.14' RT.	24.13'	5/8" IRON ROD LB6690	978995.90	642285.87			1.0000
CP14	363+01.81	92.43' LT.	27.18'	5/8" IRON ROD LB6690	979322.66	642293.66			1.0000
CP15	367+17.33	85.81' LT.	25.55'	5/8" IRON ROD LB6690	979695.22	642474.33			1.0000
CP16	365+94.76	42.86' RT.	23.83'	5/8" IRON ROD LB6690	979530.06	642539.93			1.0000
CP17	371+19.24	76.79' LT.	23.83'	5/8" IRON ROD LB6690	980056.50	642650.65			1.0000
CP18	374+91.47	56.24' LT.	25.00'	5/8" IRON ROD LB6690	980385.87	642827.15			1.0000
CP19	376+28.51	54.02' RT.	24.38'	5/8" IRON ROD LB6690	980462.01	642985.71			1.0000
CP20	378+24.63	60.74' LT.	24.52'	5/8" IRON ROD LB6690	980688.44	642966.69			1.0000
CP21	379+73.67	91.5' RT.	23.91'	5/8" IRON ROD Z639	980757.30	643168.30			1.0000

REVISIONS

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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PROJECT LAYOUT

SHEET NO. 10

EXIST. R/W L.A.
EXIST. 24" PIPE (TO REMAIN)
MATCH EXIST. CONC. SIDEWALK
CATCH BASIN GRATE EL. 25.44' INV. 22.58' (SW)
CONST. 5'x7' RUBBLE RIP-RAP SUMP
CONST. CONCRETE SPILLWAY
CONST. 20 LF OF ALUMINUM PIPE HANDRAIL
CONST. 10' CONC. SIDEWALK, 4" THICK
EXIST. R/W
1" = 50'
24" RCP
INV. 22.32'
INV. 22.59'
BEGIN PROJECT STA. 346+28.59
EQUATION: Sta 342+43.93 BK = Sta 342+91.53 AH
KINGS HIGHWAY
C.R. = 75'
+59.85 55.07' (LT)
S-101
CONST. CURB & GUTTER, TYPE F
REMOVE EXIST. CURBING
CONST. 117 LF OF 18" PIPE
CATCH BASIN GRATE EL. 25.15' INV. 22.79' (S)
PGL (LT)
℄ CONST
+33.59 7.07' (LT)
2 343 344 345 346 347 348 349
PC STA. 349+39.58
MATCHLINE STA. 349+50.00
R=5'
N 42° 56' 18" E
REMOVE EXIST. INLET AND CONNECT. TO EXIST. PIPE
CONST. 6" MEDIAN CONC. NOSE
90°0'47"
+74.81 15.97' (RT)
S-102
CONST. CURB & GUTTER, TYPE F
S-103
PGL (RT)
+11.75 14.33' (RT)
R=75'
R=35' (TYP.)
+68.25 38.63' (RT)
R=2,100'
PT STA. 342+43.93
CURVE DATA: CURVE-2
PI STA. = 352+32.13
Δ = 17° 24' 59" (LT)
D = 2° 59' 59"
T = 292.55
L = 580.59
R = 1,910.00
PC STA. = 349+39.58
PT STA. = 355+20.17
e = RC (0.02)
MATCH EXIST. CURB & GUTTER/ CONC. SIDEWALK
+58.56 46.22' (RT)
CR-D
CR-D
15" RCP
7-ELEVEN ENTRANCE
+46.71 38.63' (RT)
+74.44 38.63' (RT)
CONST. 6' CONC. SIDEWALK, 4" THICK
INSTALL DETECTABLE WARNING PER INDEX 522-002 (TYP.)
CONST. CONC. FLUME (TYP.) PER FDOT INDEX 520-010
INV. 22.19'
18" RCP
INV. 21.93'
INV. 22.36'
24" RCP
INV. 22.47'
+84.47 81.54' (RT)
24" RCP
INV. 22.07'
+33.55 71.68' (RT)
+33.00 81.54' (RT)
EXIST. R/W
EXIST. R/W L.A.
S 47° 04' 29" E
SANDHILL BLVD
MH RIM EL. 26.54' INV. 22.10' (NE) INV. 22.36' (SE)
CATCH BASIN GRATE EL. 25.65' 4" WIER EL. 23.23 TOP BAFFLE EL. 25.66'
EXIST. 15" PIPE (TO REMAIN)
SAWCUT & MATCH EXIST. PAV'T
DESILT EXIST. PIPE
EXIST. 24" PIPE (TO REMAIN)
MILL & RESURFACE EXIST. PAV'T (1.5" AVG. DEPTH)

BEGIN PROJECT STA. 346+28.59
FULL SUPER ELEVATION e = RC (0.02)
STA. 347+00.00
PI +80.00 EL. 26.76
PI +39.00 EL. 27.65
27.61
PROPOSED PGL
(+) 0.343%
S-103
S-102
18" Pipe
EXIST. GROUND @ ℄ CONST.
FL 22.90
FL 22.80
CONNECT TO EXIST. 15" PIPE
30 25 20 15
343+00
26.16
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 342+00 TO STA. 349+50

SHEET NO. 11

CURVE DATA: CURVE-2
PI STA. = 352+32.13
Δ = 17° 24' 59" (LT)
D = 2° 59' 59"
T = 292.55
L = 580.59
R = 1,910.00
PC STA. = 349+39.58
PT STA. = 355+20.17
e = RC (0.02)

1" = 50'

CATCH BASIN
GRATE EL. 23.88'
INV. 18.98 (NE)
INV. 18.65 (SW)
SE (BROKEN COLLAR
NO PIPE)

REMOVE AND REPLACE
EXIST. INLET

CONST. 6" THICK CONC.
FLARED DRIVEWAY
PER INDEX 522-003

DRIVEWAY NO. 2

CONST. TYPE D INLET
TOP ON EXIST. STRUCTURE
GRATE EL. 24.0

MH
RIM EL. 23.34
INV. 17.88 (SW)
INV. 17.95 (SE)

CONST. 10' CONC.
SIDEWALK. 4" THICK

GRADE SWALE
(SEE CROSS SECTIONS)

EXIST. R/W

S-106A
S-106
S-111
S-104
S-107
S-108
S-109
S-110

R=100'
R=1,845'
R=2,023'
R=2,011'
R=2,100'

PGL (LT)
PGL (RT)
TYPE B
STABILIZATION
(LBR 70)

CONST. 59 LF
OF 18" PIPE

CONST. 27 LF
OF 24" PIPE

CONST. 27 LF
OF 18" PIPE

CONST. CURB &
GUTTER, TYPE E

CONST. CURB &
GUTTER, TYPE F

KINGS HIGHWAY

℄ CONST.

CURVE-2

N 25° 31' 19" E

MATCHLINE STA. 349+50.00

MATCHLINE STA. 356+50.00

STA. 355+20.17

STA. 352+32.13

EXIST. 18"x24" PIPE
(TO BE REMOVED)

18"x24" CMP

INV. 22.05

CONST. 56 LF
OF 19"x30" PIPE

DRIVEWAY NO. 1

CONST. 6" THICK CONC.
FLARED DRIVEWAY
PER INDEX 522-003

EXIST. ESMT.

CONST. 30" PIPE

CONST. 380 LF
OF 24" PIPE

CONST. 6' CONC.
SIDEWALK, 4" THICK

6" CONCRETE DRIVEWAY

TYPE B STABILIZATION
LBR 70

FULL SUPER ELEVATION e = RC (0.02)

TRANSITION

BEGIN PROFILE (LT)
BEGIN PROFILE (RT)
STA. 351+89.00 ℄ CONST.

PROPOSED PGL

(-) 0.356%

(-) 0.356%

(+) 0.320%

(+) 0.266%

PI +89.00
EL. 26.76

BEGIN DITCH PGL LT
STA. 352+00.00
(MATCH EXIST.)

FL 22.20
FL 22.10

PI +00.00
EL. 23.90

24" Pipe

EXIST. GROUND
@ ℄ CONST.

PI +70.00
EL. 23.70

+99.50 EL. 27.32

27.36

27.38

27.38

27.35

27.30

27.23

+34.50 EL. 27.16

PI +67.00
EL. 27.65

BEGIN TRANSITION
STA. 354+75.00

PROPOSED
PGL (LT)

PROPOSED
PGL (RT)

(+) 0.320%

(-) 0.322%

PI +67.00
EL. 27.50

DITCH PGL (LT)

K = 176
135' V.C.

FLAT SPOT
STA. 355+75.00

(-) 0.500%

(+) 0.000%

PI +87.00
EL. 26.90

FL 23.40

FL 21.90

FL 21.80

30" Pipe

27.61

27.06 (LT)

26.16

26.90 (RT)

25.06

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

30 25 20 15

350+00 351+00 352+00 353+00 354+00 355+00 356+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

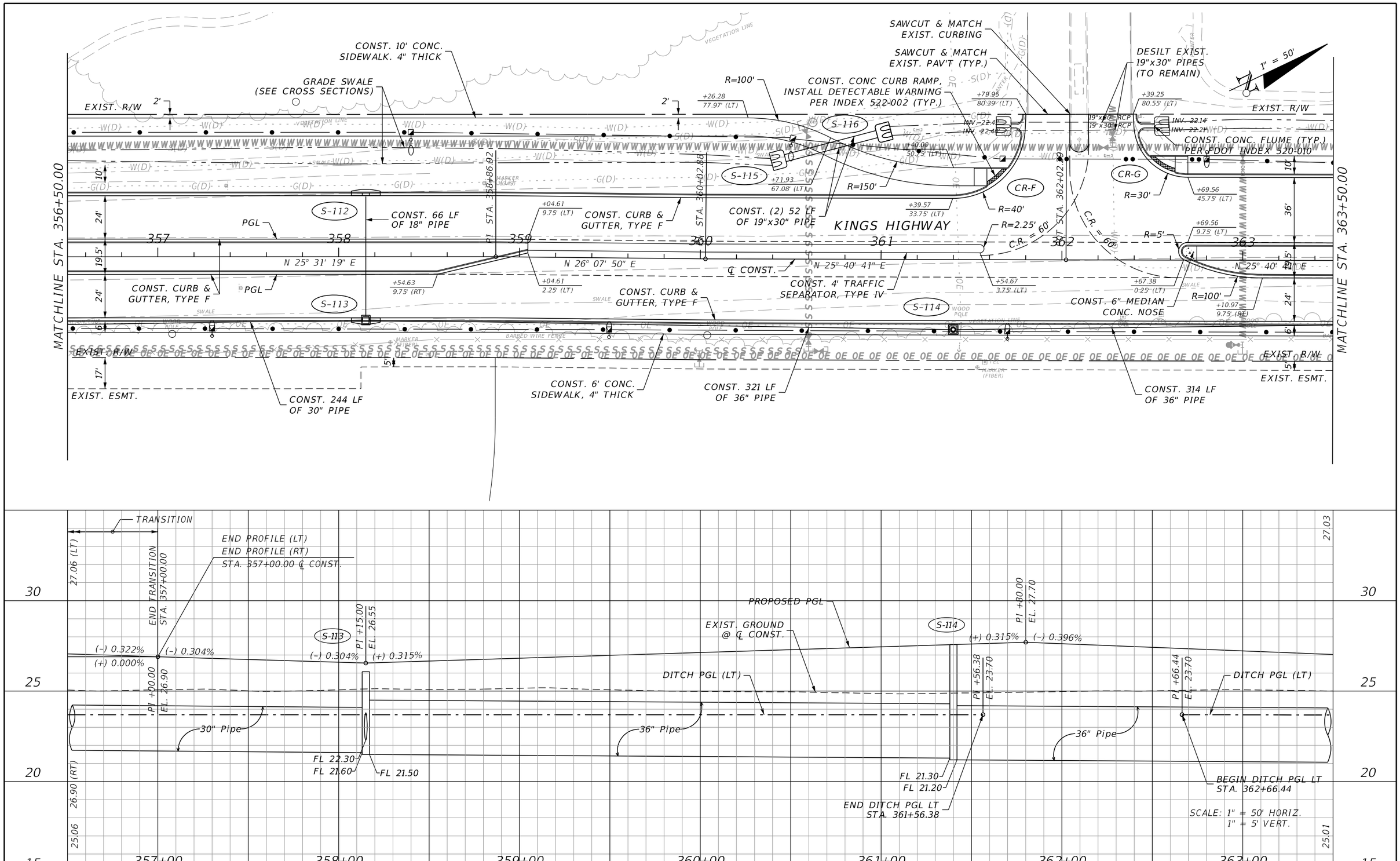
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 349+50 TO STA. 356+50

SHEET NO. 12



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
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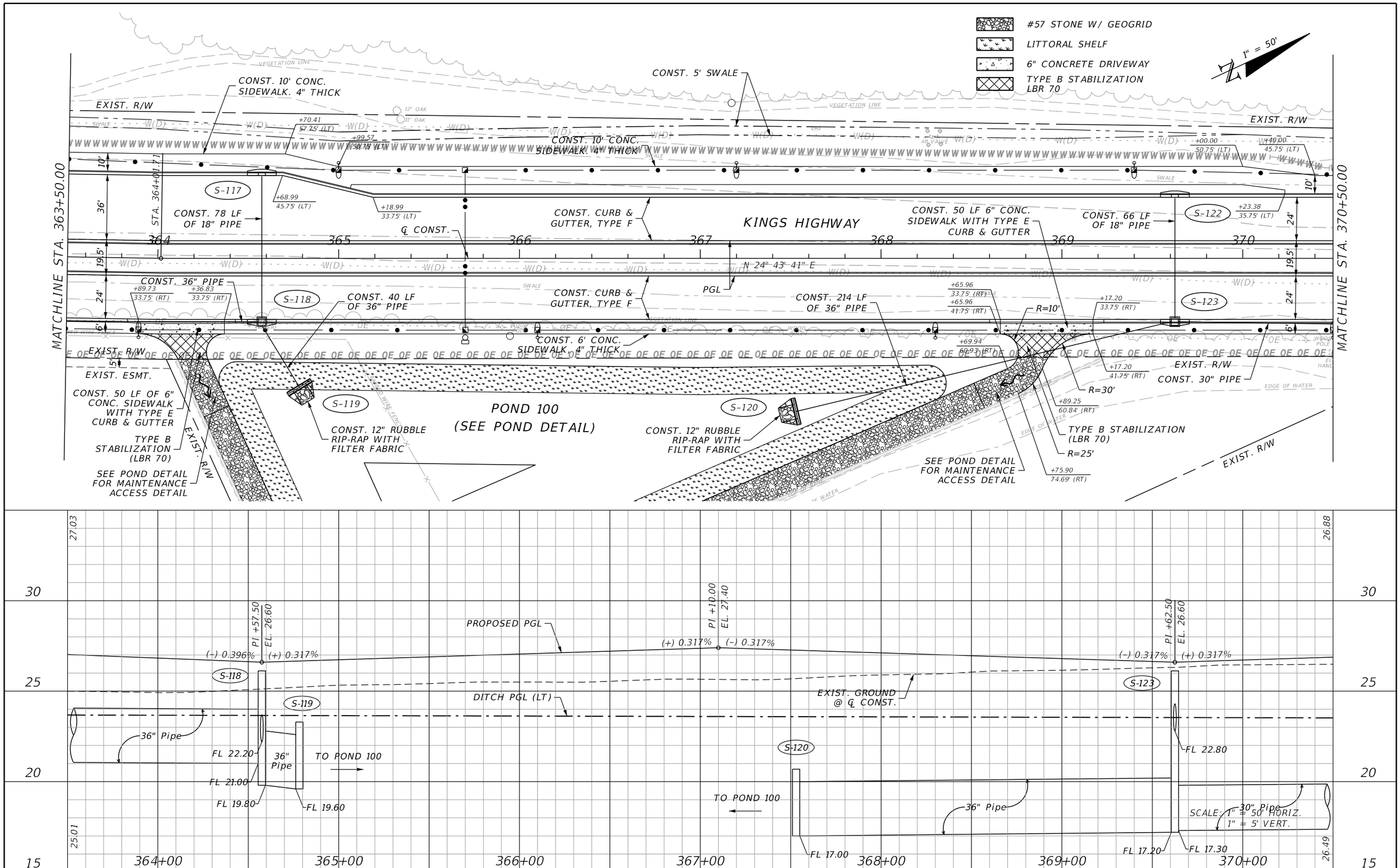
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 356+50 TO STA. 363+50

SHEET NO. 13



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

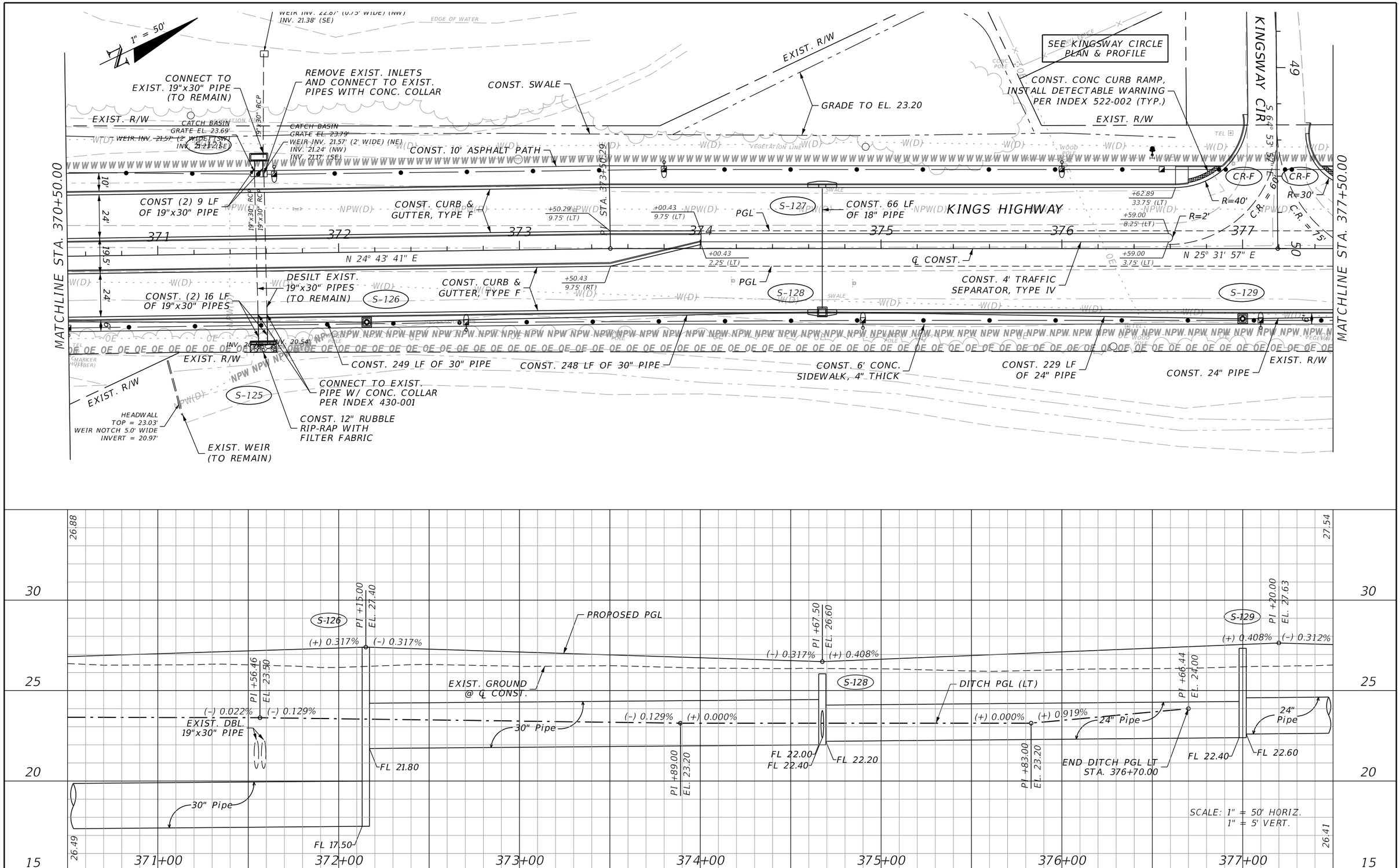
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 363+50 TO STA. 370+50

SHEET NO. 14



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

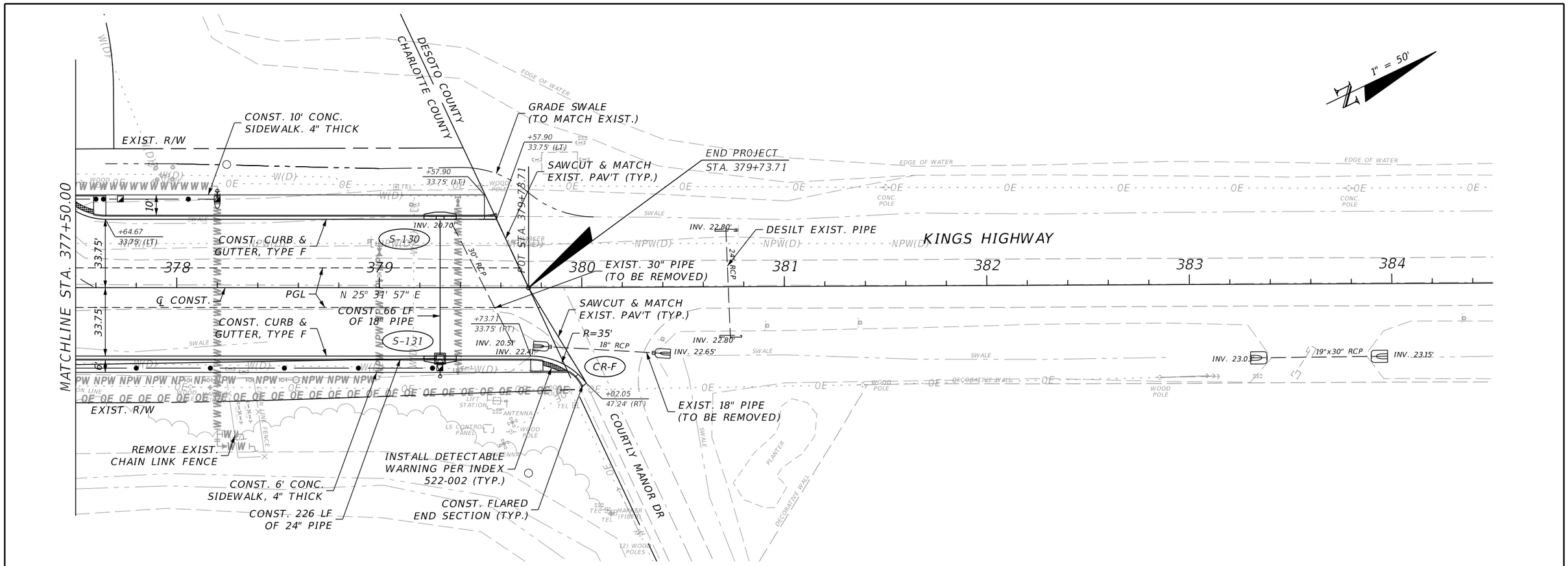
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 370+50 TO STA. 377+50

SHEET NO. 15



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

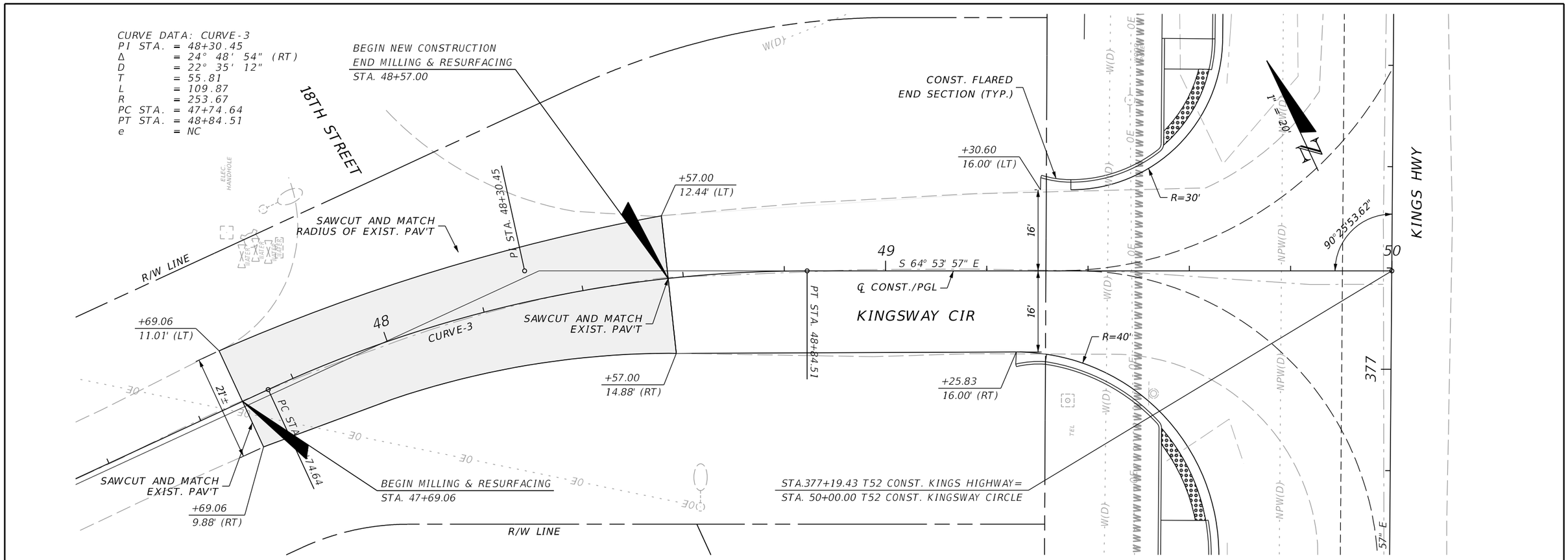
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

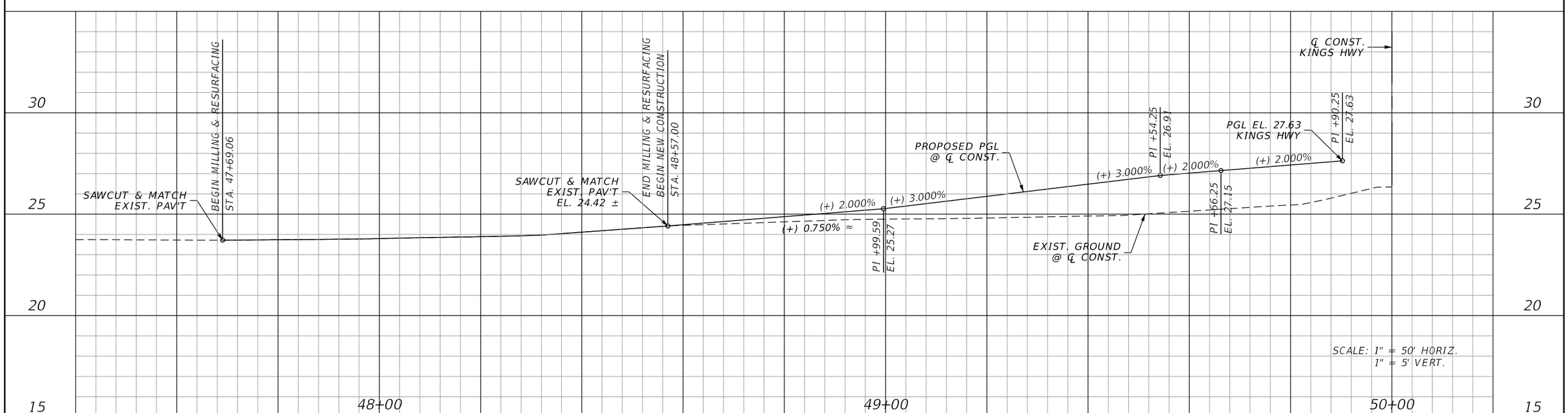
ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 377+50 TO STA. 384+50

SHEET NO. 16

CURVE DATA: CURVE-3
PI STA. = 48+30.45
Δ = 24° 48' 54" (RT)
D = 22° 35' 12"
T = 55.81
L = 109.87
R = 253.67
PC STA. = 47+74.64
PT STA. = 48+84.51
e = NC





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

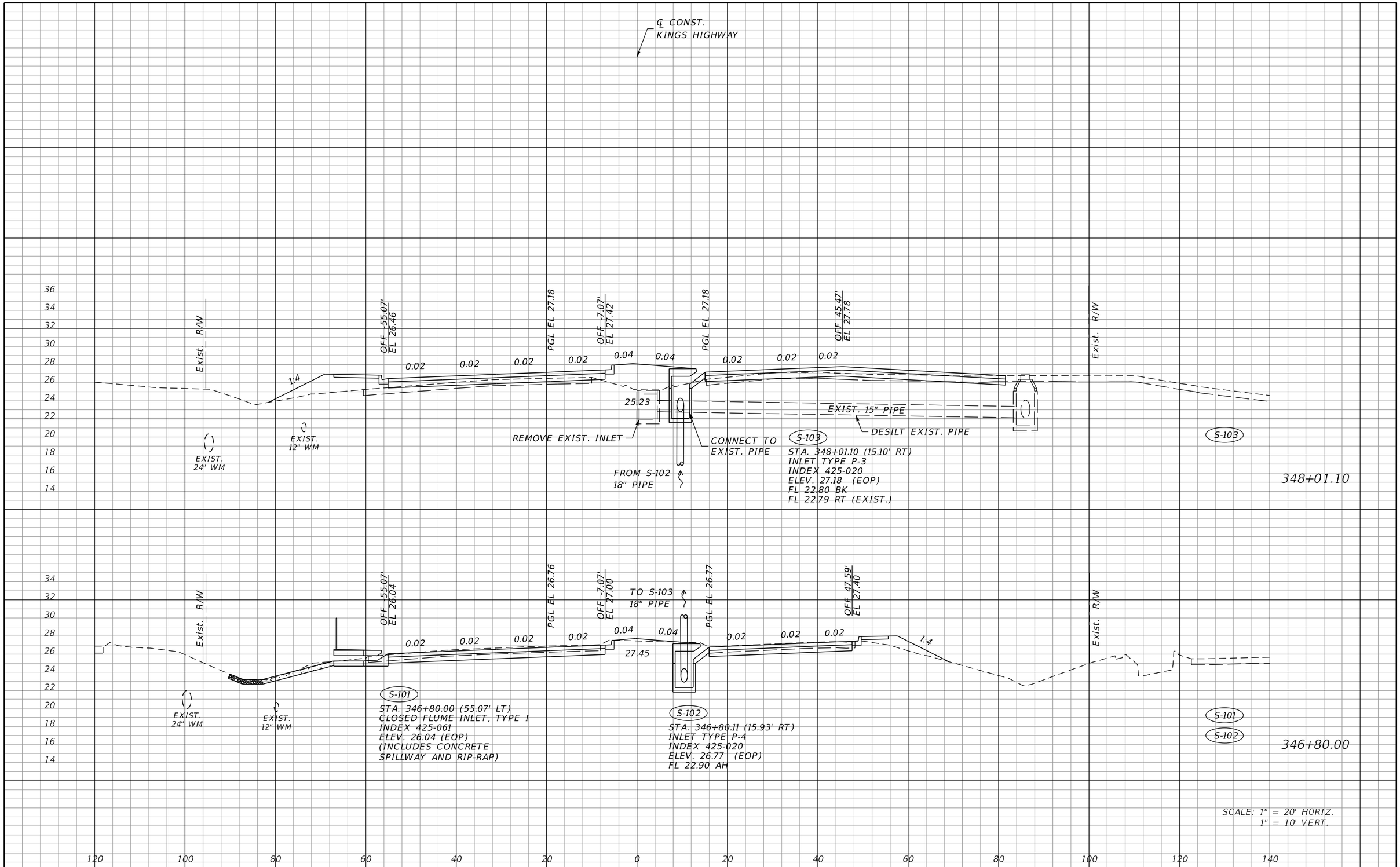
JOHNSON ENGINEERING
2122 JOHNSON STREET
FORT MYERS, FL 33901
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20225022-00R

PLAN & PROFILE
KINGSWAY CIRCLE

SHEET NO. 17



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
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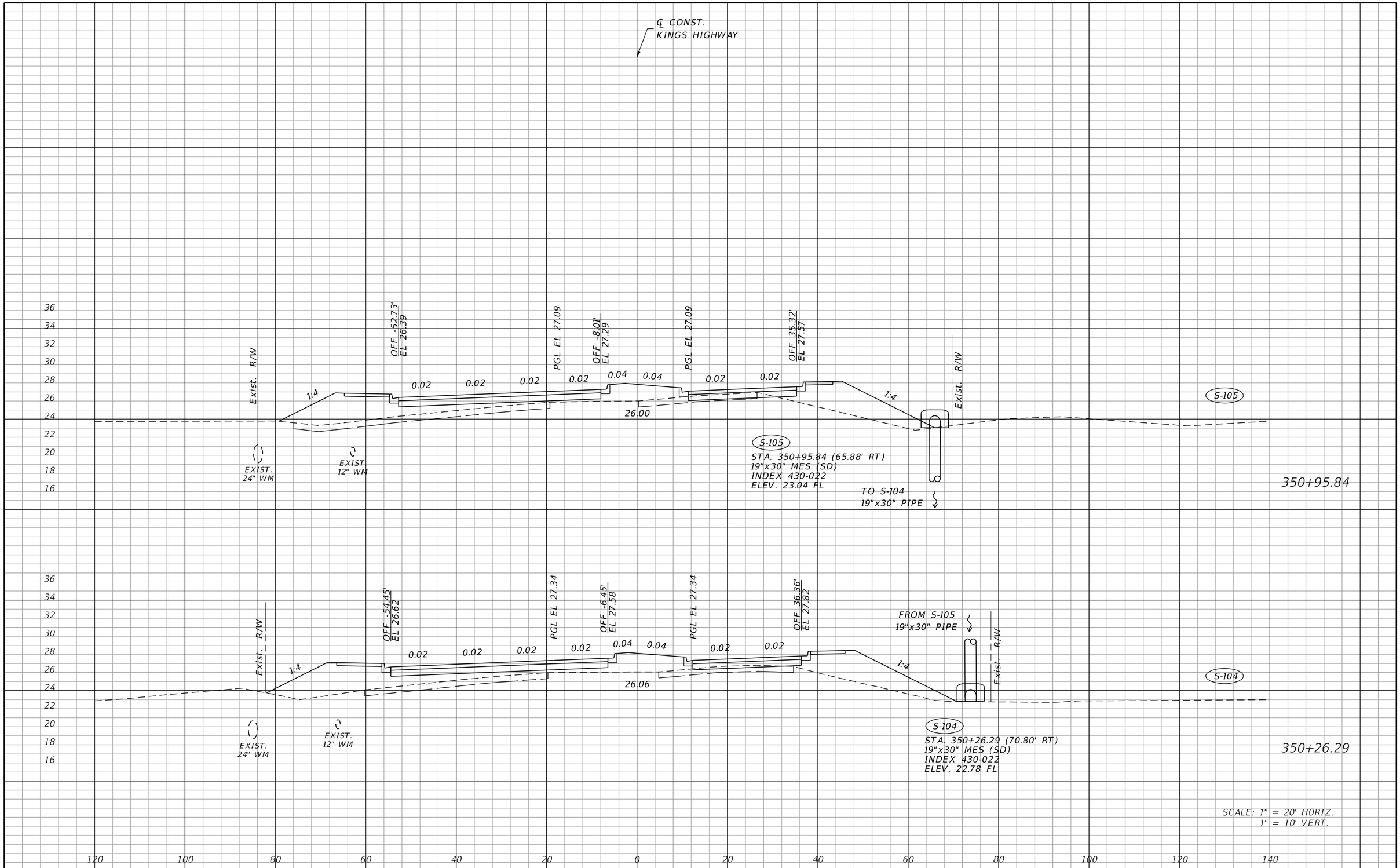
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 18



REVISIONS			
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JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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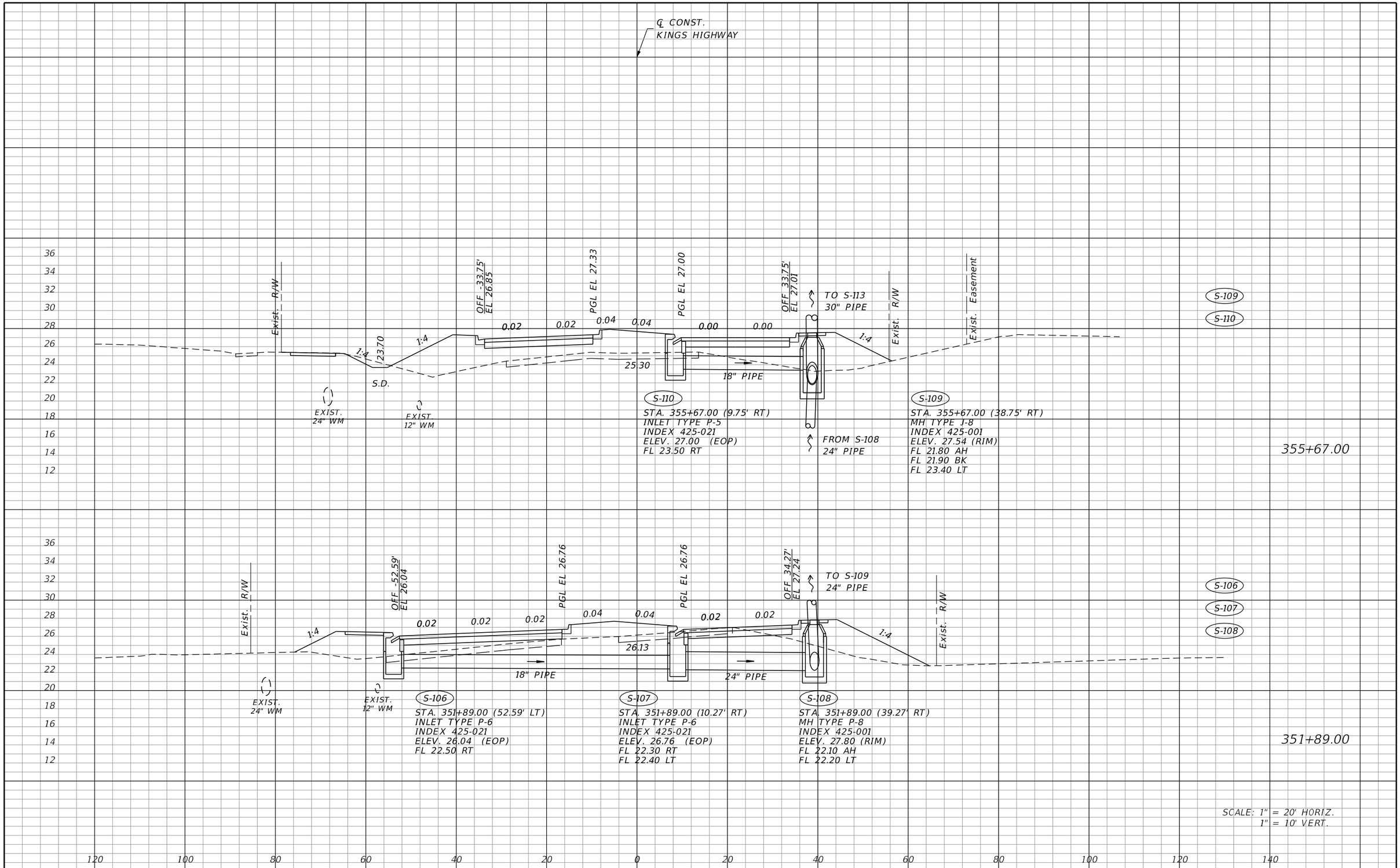
	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO.
19



REVISIONS			
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17833 MURDOCK CIRCLE
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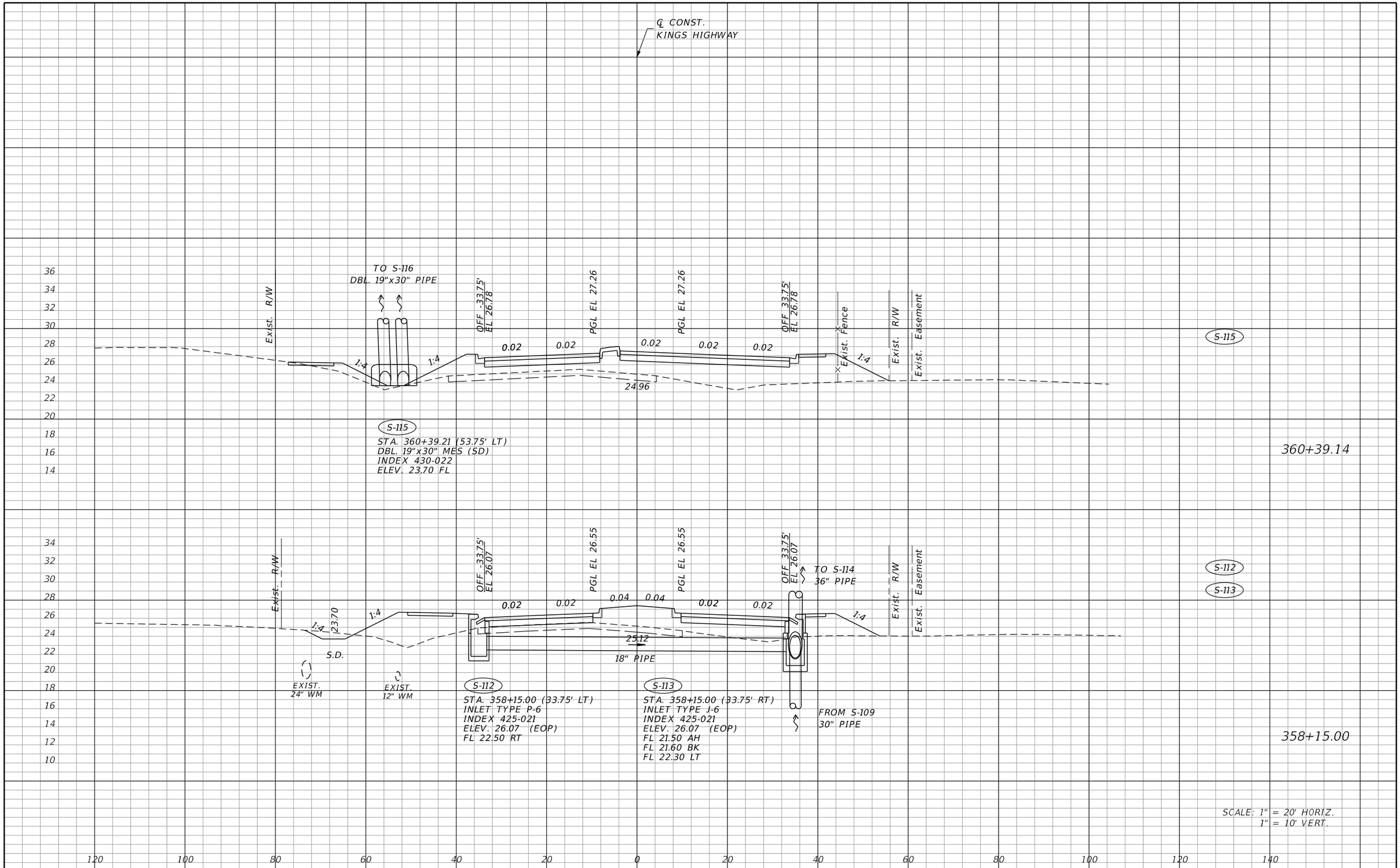
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 20



REVISIONS			
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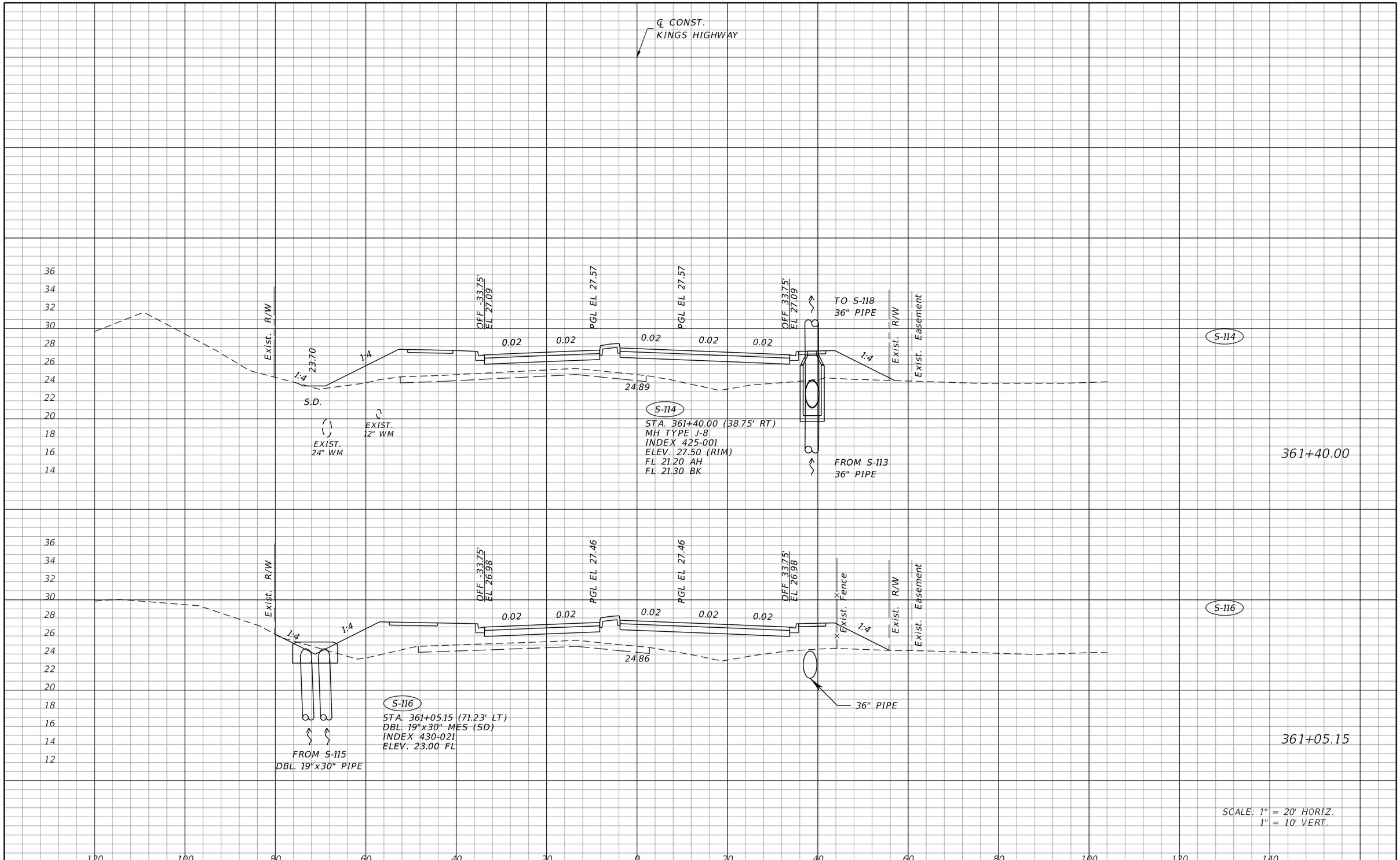
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 21



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
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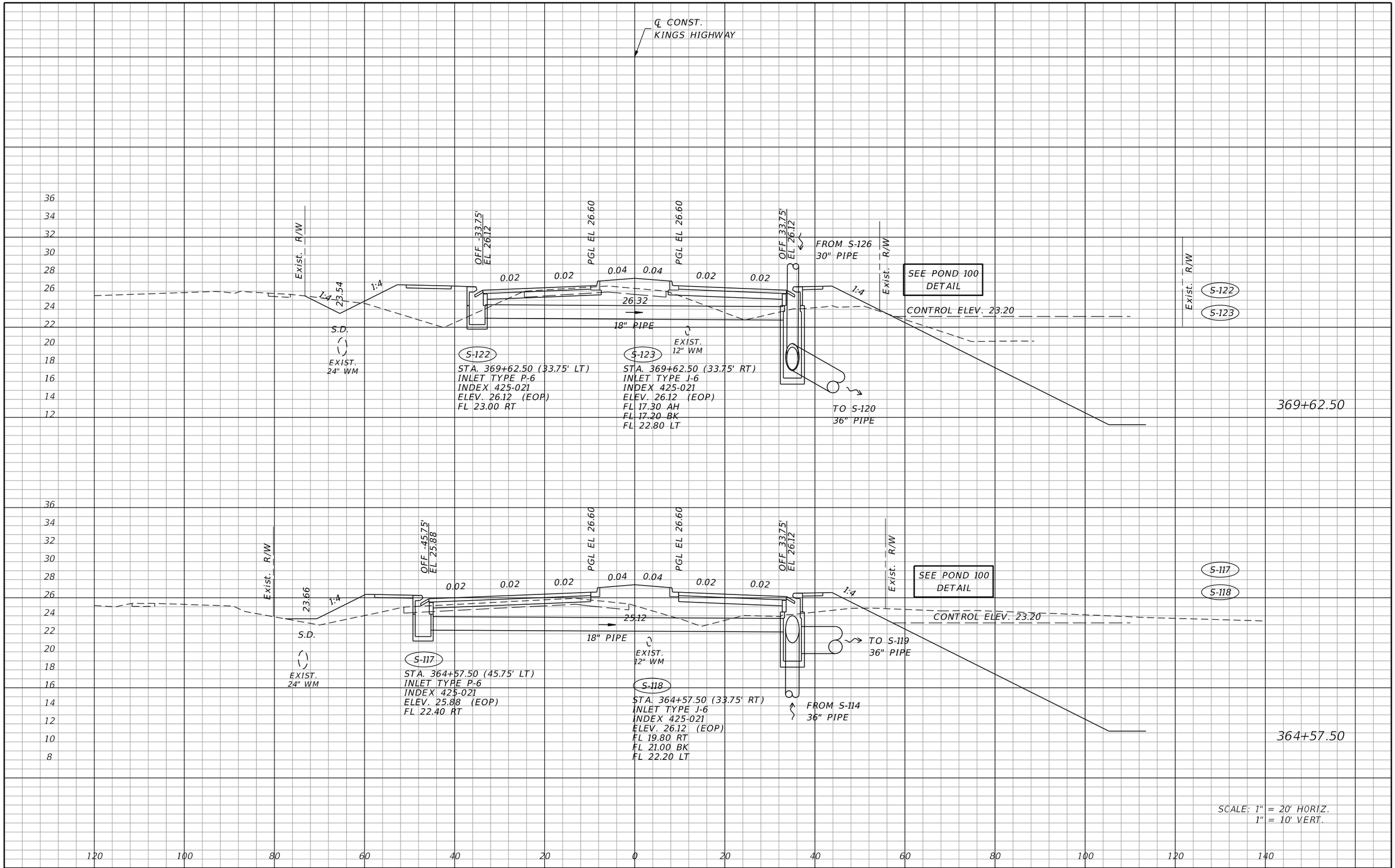
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO.
22



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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PUBLIC WORKS DEPARTMENT

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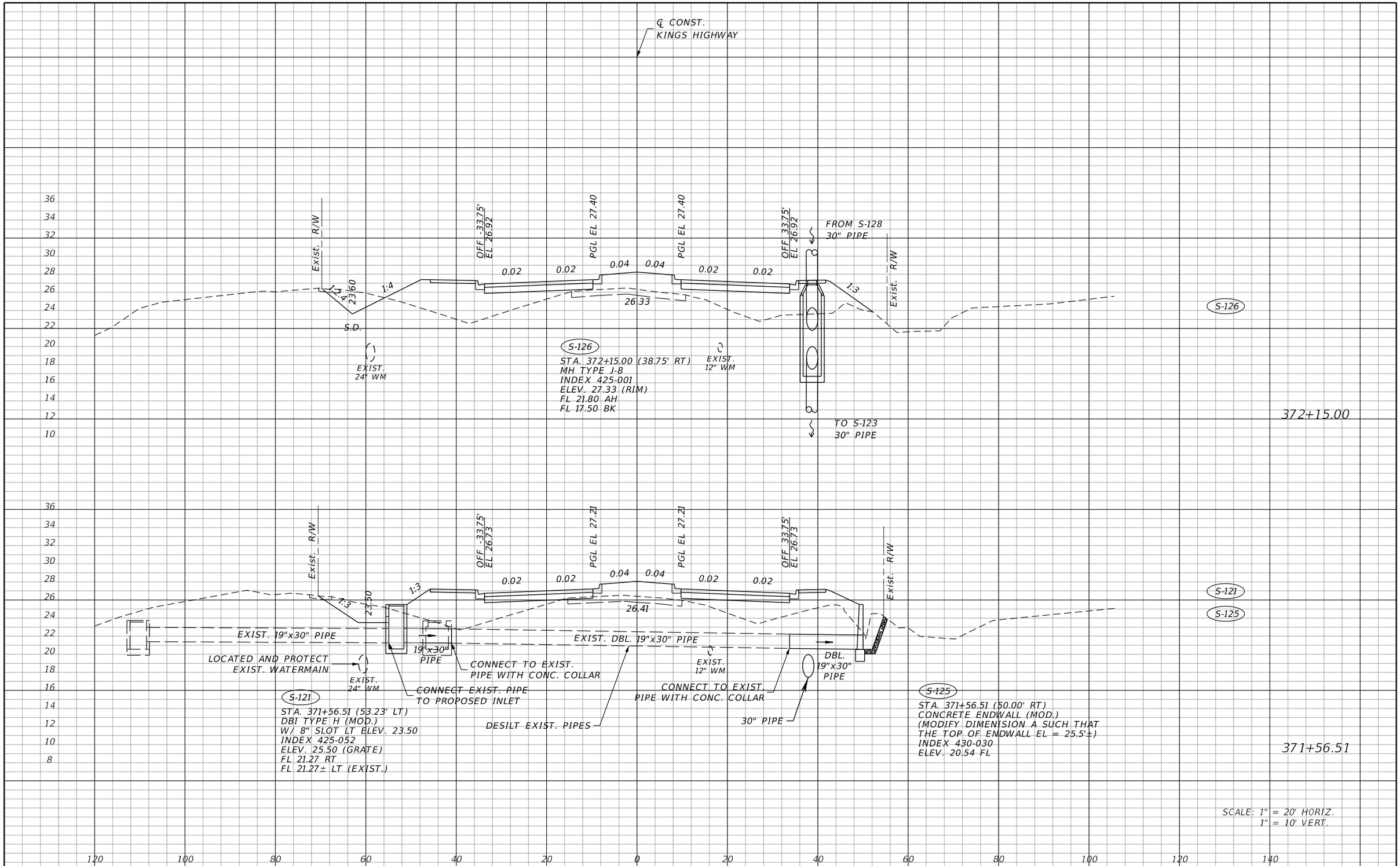
	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 23



REVISIONS			
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PUBLIC WORKS DEPARTMENT

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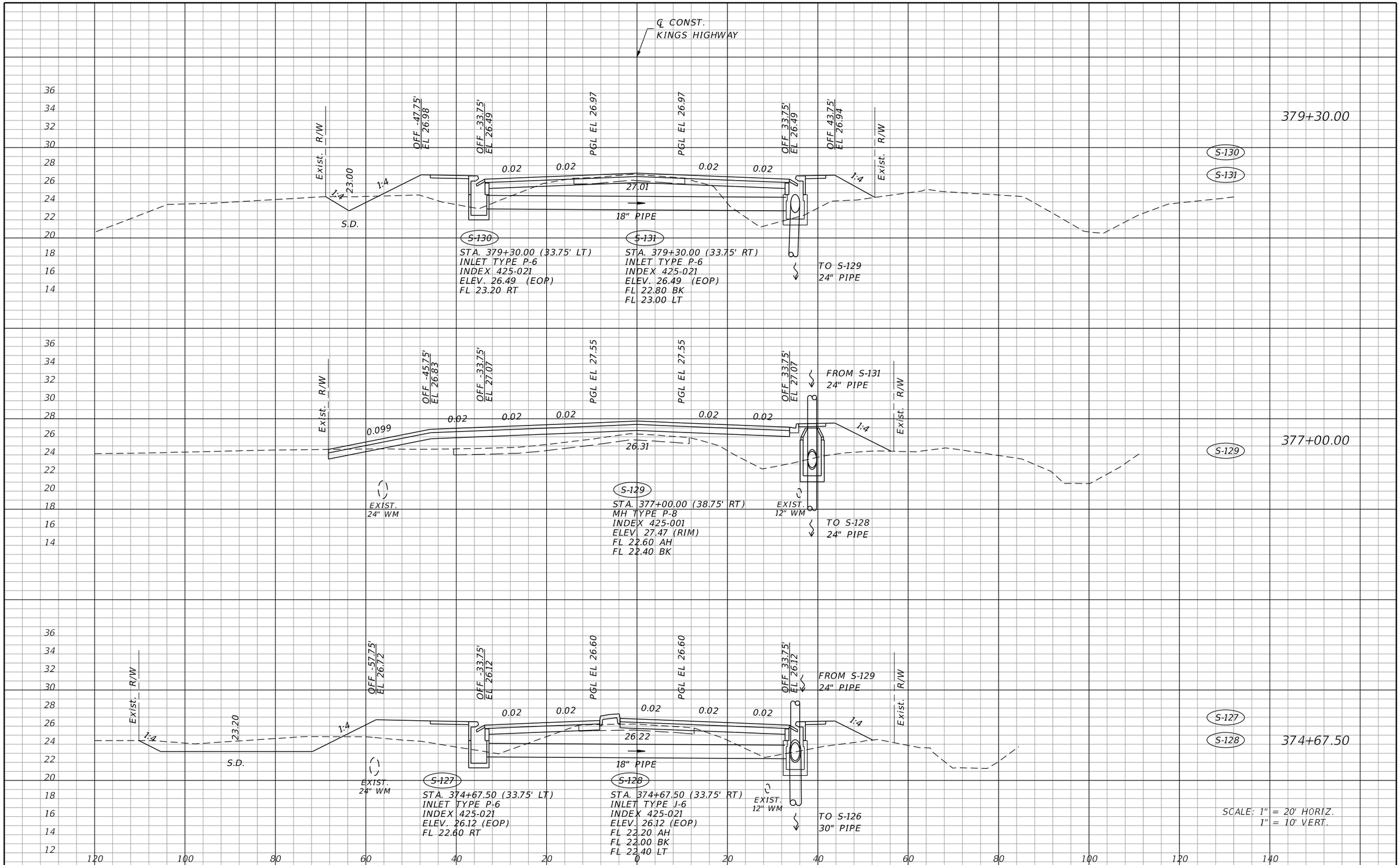
	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 24



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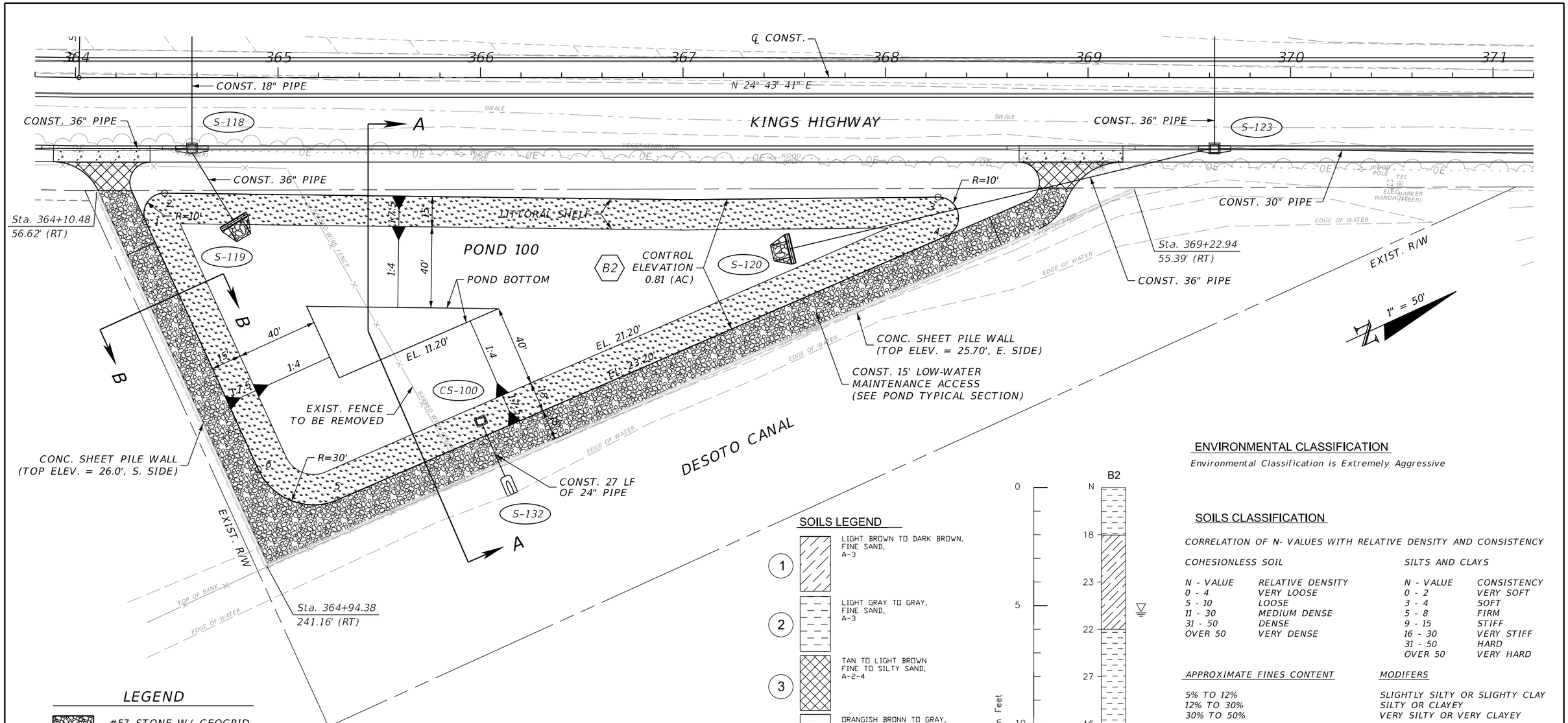
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 25



LEGEND

- #57 STONE W/ GEOGRID
- LITTORAL SHELF
- 6" CONCRETE DRIVEWAY
- TYPE B STABILIZATION LBR 70

POND 100

TREATMENT PROVIDED BY WET DETENTION
CONTROL ELEVATION (FT-NAVD) = 23.20
POND AREA AT CONTROL ELEVATION (AC) = 0.81
WEIR ELEVATION (FT-NAVD) = 23.62
25 YEAR/24HOUR PEAK STAGE (FT-NAVD) = 25.50
MINIMUM BERM ELEVATION (FT-NAVD) = 25.50
LITTORAL SHELF AREA = 0.304 AC

POND CONTROL POINTS

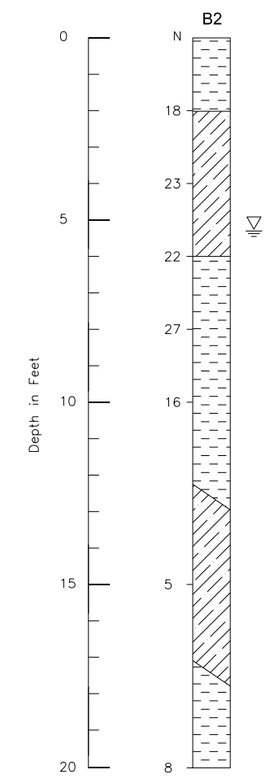
POINT	COORDINATES	
	NORTH	EAST
1	979372.81	642498.73
2	979387.10	642489.75
3	979733.29	642651.35
4	979728.97	642670.47
5	9794.01.47	642663.08
6	979372.15	642632.94

SOILS LEGEND

1. LIGHT BROWN TO DARK BROWN, FINE SAND, A-3
2. LIGHT GRAY TO GRAY, FINE SAND, A-3
3. TAN TO LIGHT BROWN FINE TO SILTY SAND, A-2-4
4. ORANGISH BRONN TO GRAY, FINE SAND, A-3

SOILS PROFILE LEGEND

B-X	BORING NUMBER
▽	GROUND WATER LEVEL
MC	NATURAL MOISTURE CONTENT (%)
-200	FINES PASSING NO. 200 SIEVE (%)
LL	LIQUID LIMIT (%)
OC	ORGANIC CONTENT (%)
PI	PLASTICITY INDEX (%)
FA	FRICTION ANGLE (Degrees)
UW	SUBMERGED UNIT WEIGHT (Pcf)
C	COHESION (ksf)
HA	HAND AUGER



ENVIRONMENTAL CLASSIFICATION

Environmental Classification is Extremely Aggressive

SOILS CLASSIFICATION

CORRELATION OF N- VALUES WITH RELATIVE DENSITY AND CONSISTENCY

COHESIONLESS SOIL		SILTS AND CLAYS	
N - VALUE	RELATIVE DENSITY	N - VALUE	CONSISTENCY
0 - 4	VERY LOOSE	0 - 2	VERY SOFT
5 - 10	LOOSE	3 - 4	SOFT
11 - 30	MEDIUM DENSE	5 - 8	FIRM
31 - 50	DENSE	9 - 15	STIFF
OVER 50	VERY DENSE	16 - 30	VERY STIFF
		31 - 50	HARD
		OVER 50	VERY HARD

APPROXIMATE FINES CONTENT	MODIFERS
5% TO 12%	SLIGHTLY SILTY OR SLIGHTY CLAY
12% TO 30%	SILTY OR CLAYEY
30% TO 50%	VERY SILTY OR VERY CLAYEY

CORRELATION OF N- VALUES WITH HARDNESS DESCRIPTION

LIMEROCK

N - VALUE	RELATIVE DENSITY
0 - 19	VERY SOFT
20 - 49	SOFT
50 - 100	MEDIUM HARD
50 FOR 2 - 5"	MODERATELY HARD
50 FOR 0 - 2"	VERY HARD

APPROXIMATE ROCK/SHELL/ ROOT CONTENT	MODIFERS
5% TO 10%	TRACE
10% TO 20%	TRACE TO SOME
20% TO 40%	SOME
40% TO 60%	AND

REVISIONS			
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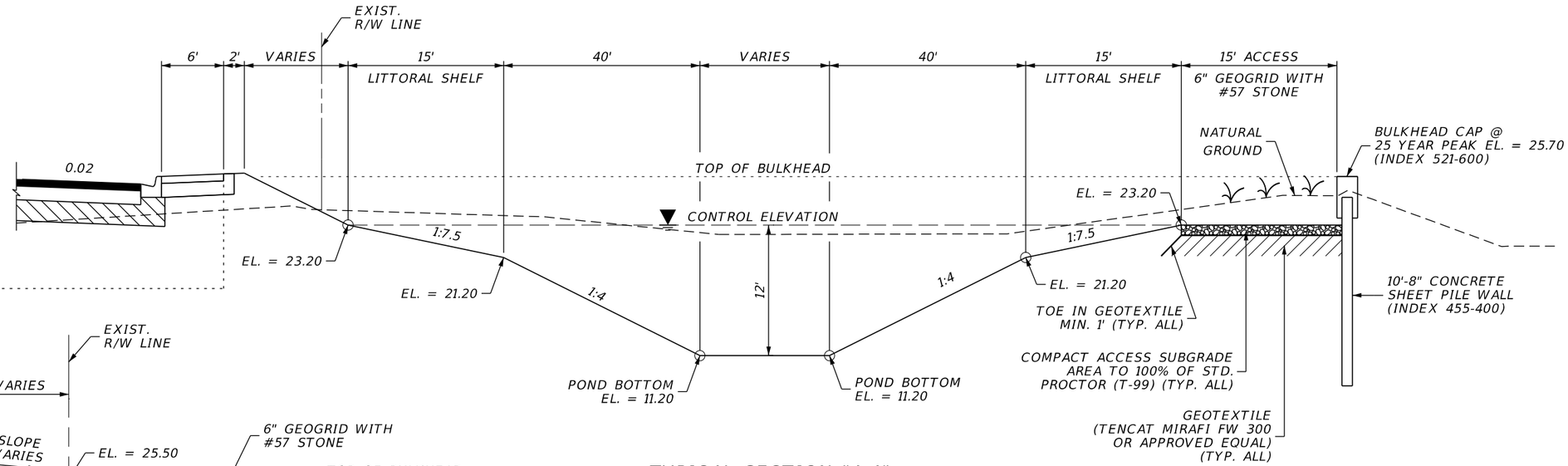
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

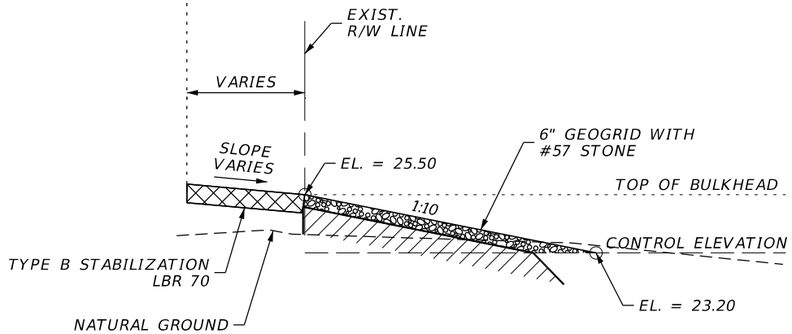
POND DETAIL NO. 100

SHEET NO. 26



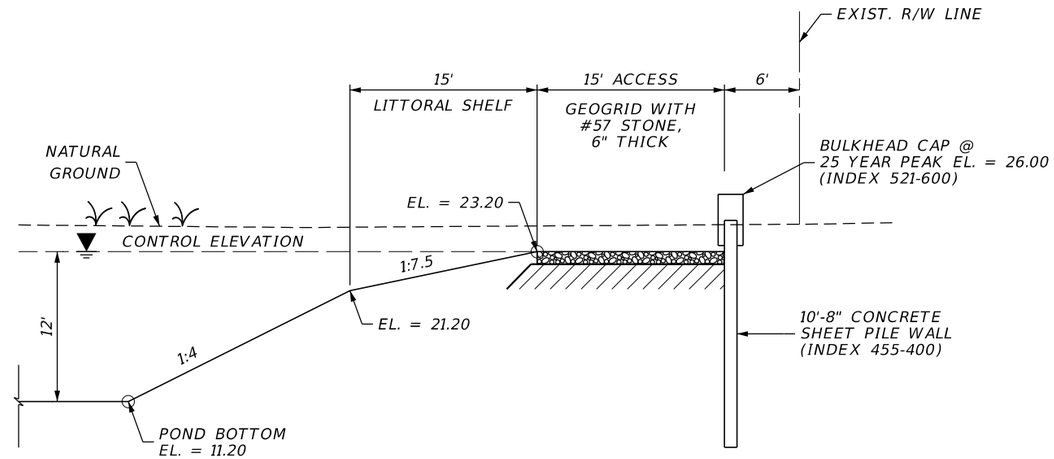
TYPICAL SECTION "A-A"

N.T.S.



POND MAINTENANCE ACCESS DETAIL

N.T.S.



TYPICAL SECTION "B-B"

N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
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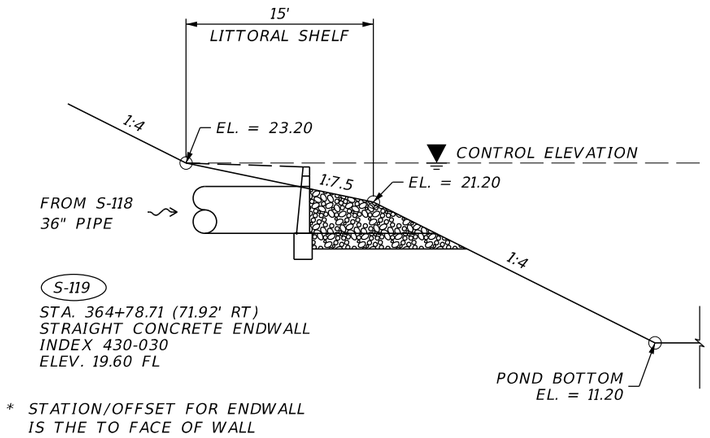
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

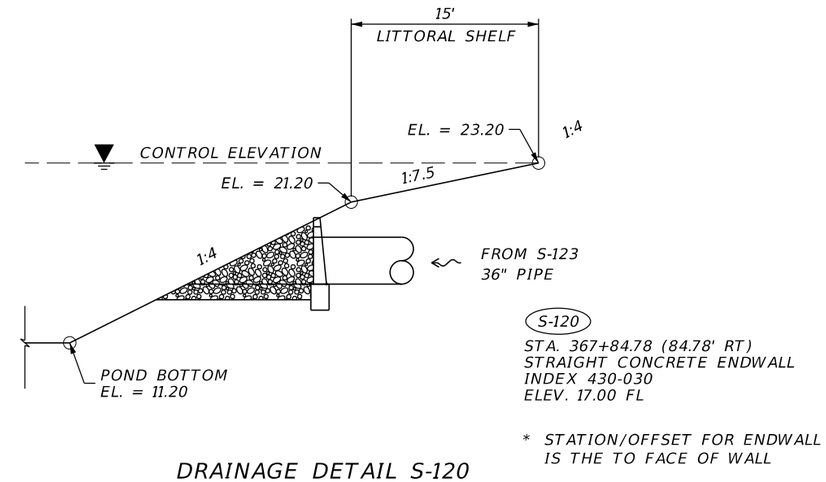
POND DETAIL NO. 100

SHEET NO. 27



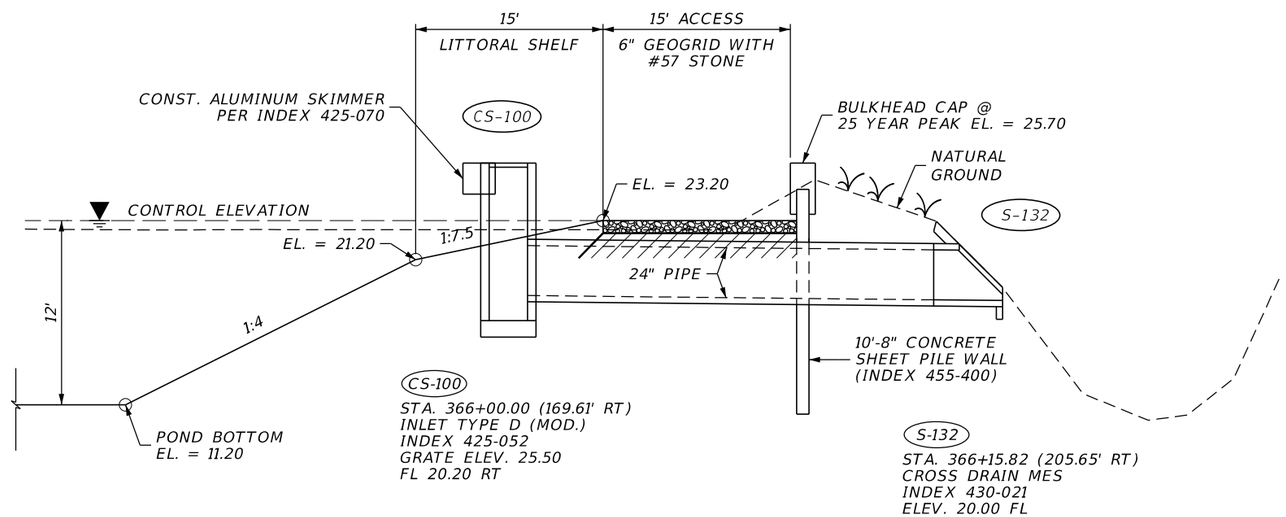
DRAINAGE DETAIL S-119

N.T.S.



DRAINAGE DETAIL S-120

N.T.S.



CONTROL STRUCTURE DETAIL

N.T.S.

* STATION/OFFSET FOR M.E.S.
IS THE TO END OF PIPE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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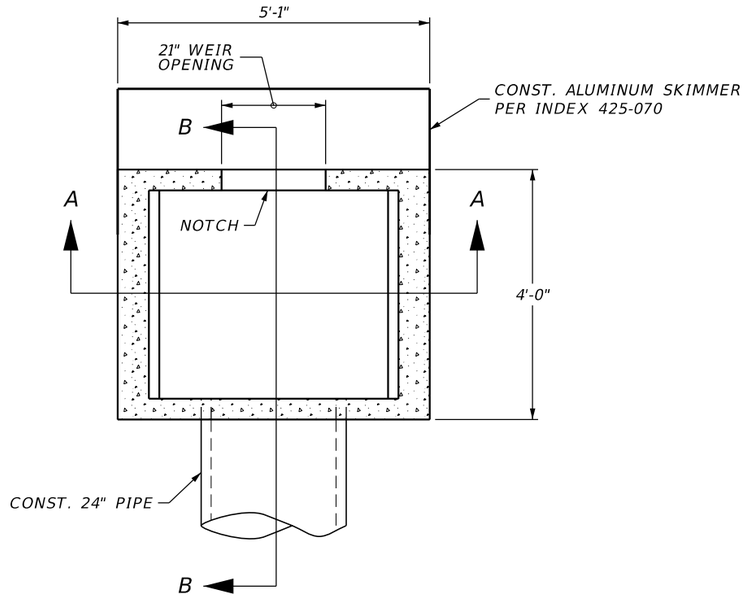
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

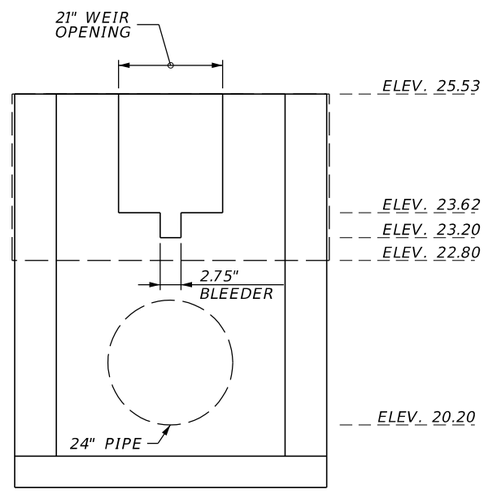
ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

POND DETAIL
NO. 100

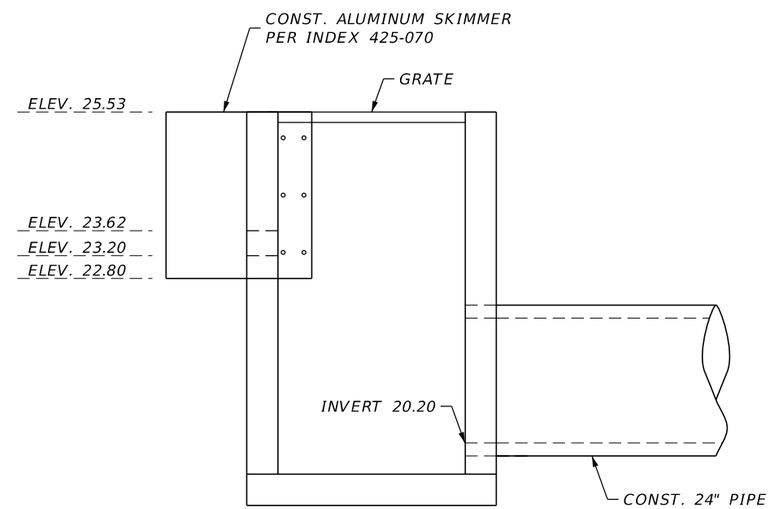
SHEET NO. 28



PLAN VIEW



SECTION "A-A"



SECTION "B-B"

CONTROL STRUCTURE DETAIL CS-100
TYPE D (MODFIED)

N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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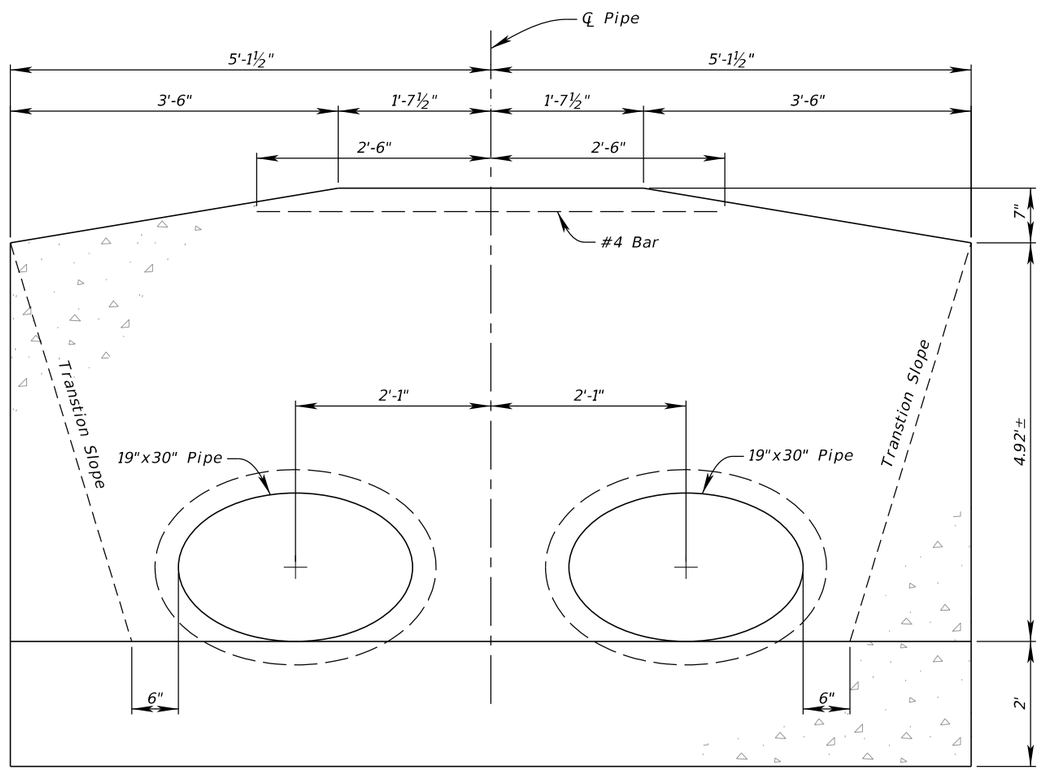
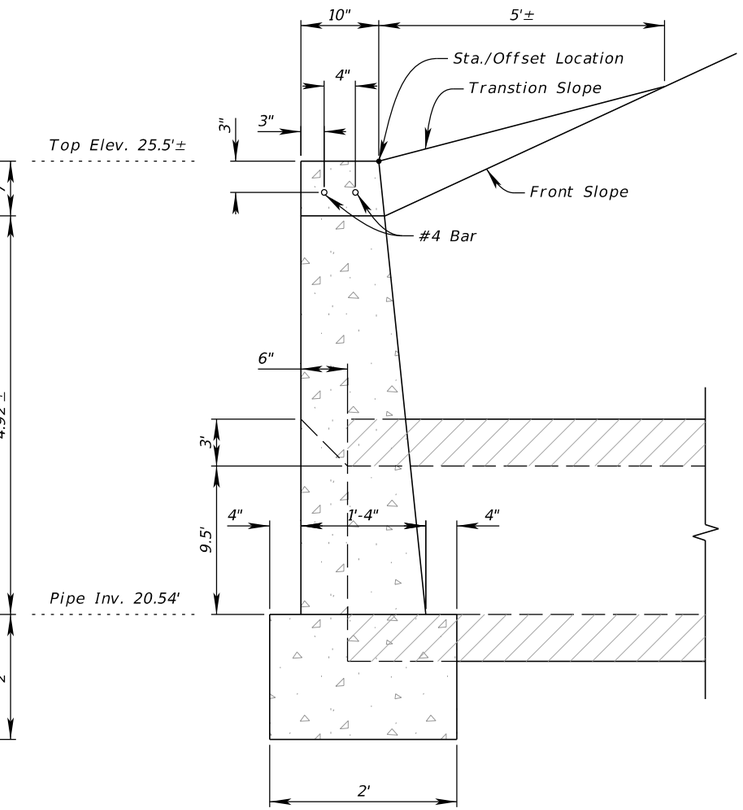
	CHARLOTTE	20236025-000

CONTROL STRUCTURE DETAIL CS-100

SHEET NO. 29



FRONT ELEVATION



SIDE ELEVATION

STRUCTURE DETAIL S-125
STRAIGHT CONCRETE ENDWALL (MODFIED)

N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
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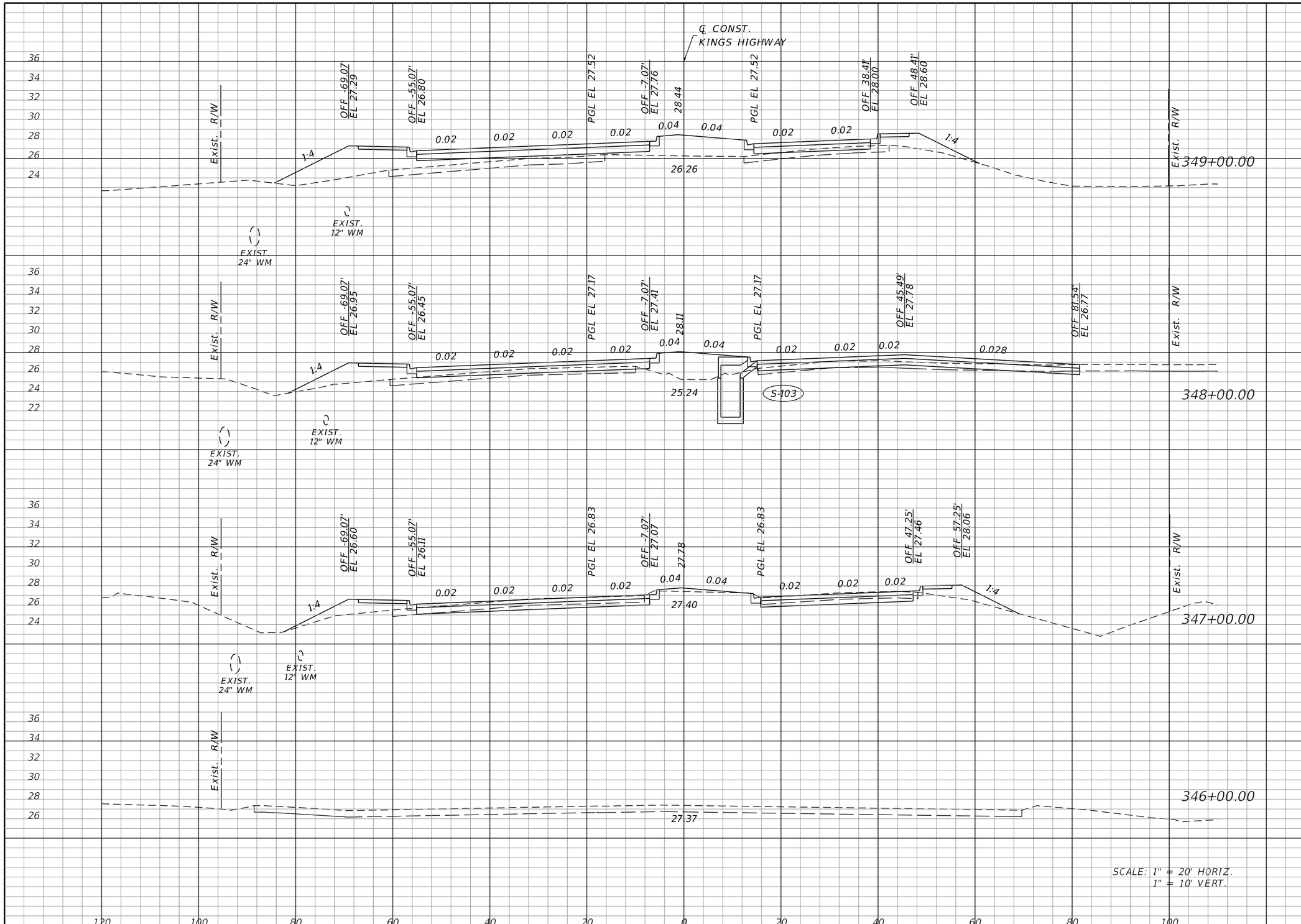
DRAINAGE STRUCTURE
DETAIL S-125

SHEET NO.
30



Regular Exc.		Embankment	
A	V	A	V
0	5	129	373
3	68	73	205
34	0	38	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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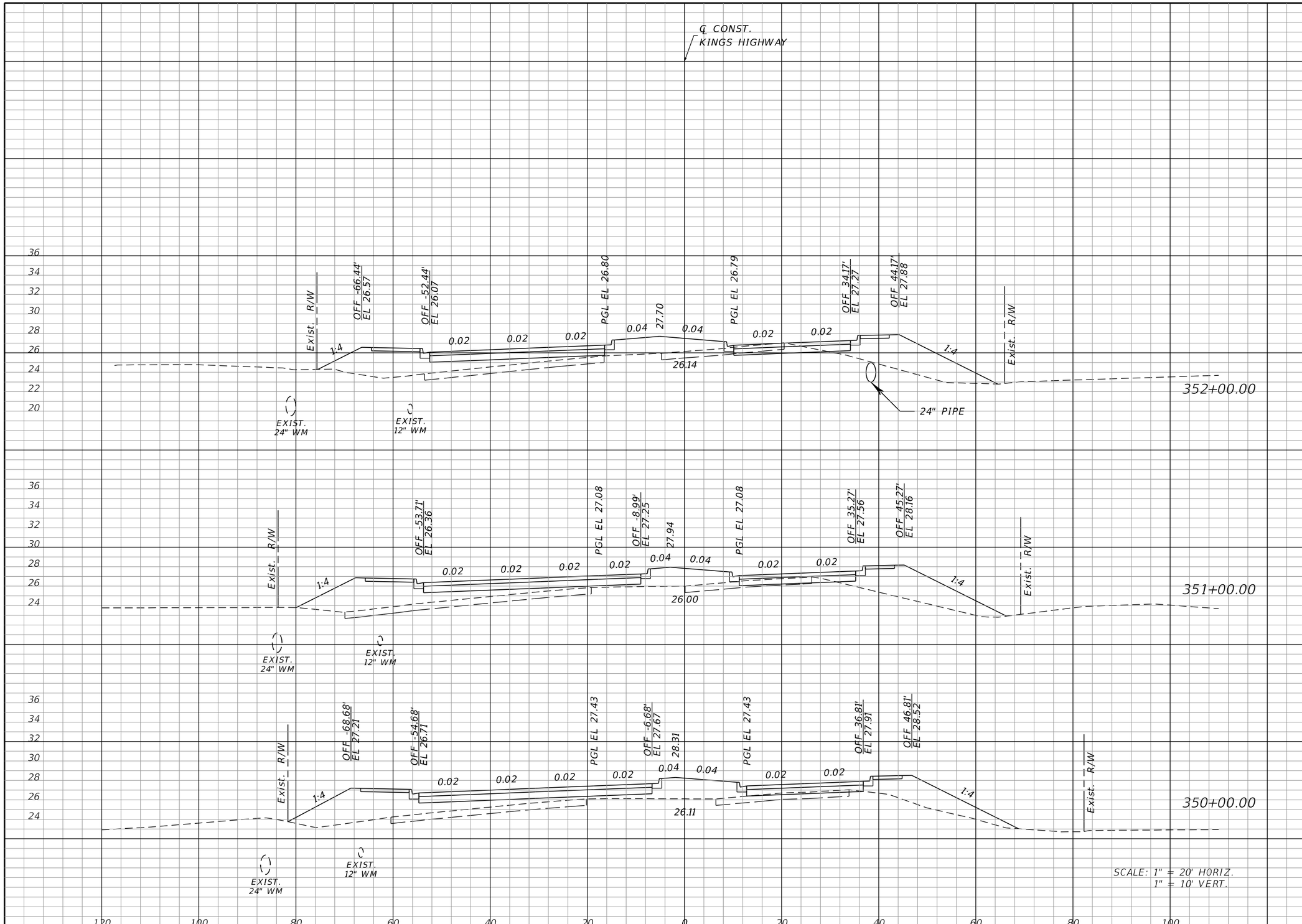
CROSS SECTIONS

SHEET NO.
31



Regular Exc.		Embankment	
A	V	A	V
9	19	164	611
2	4	166	614
0	1	165	544

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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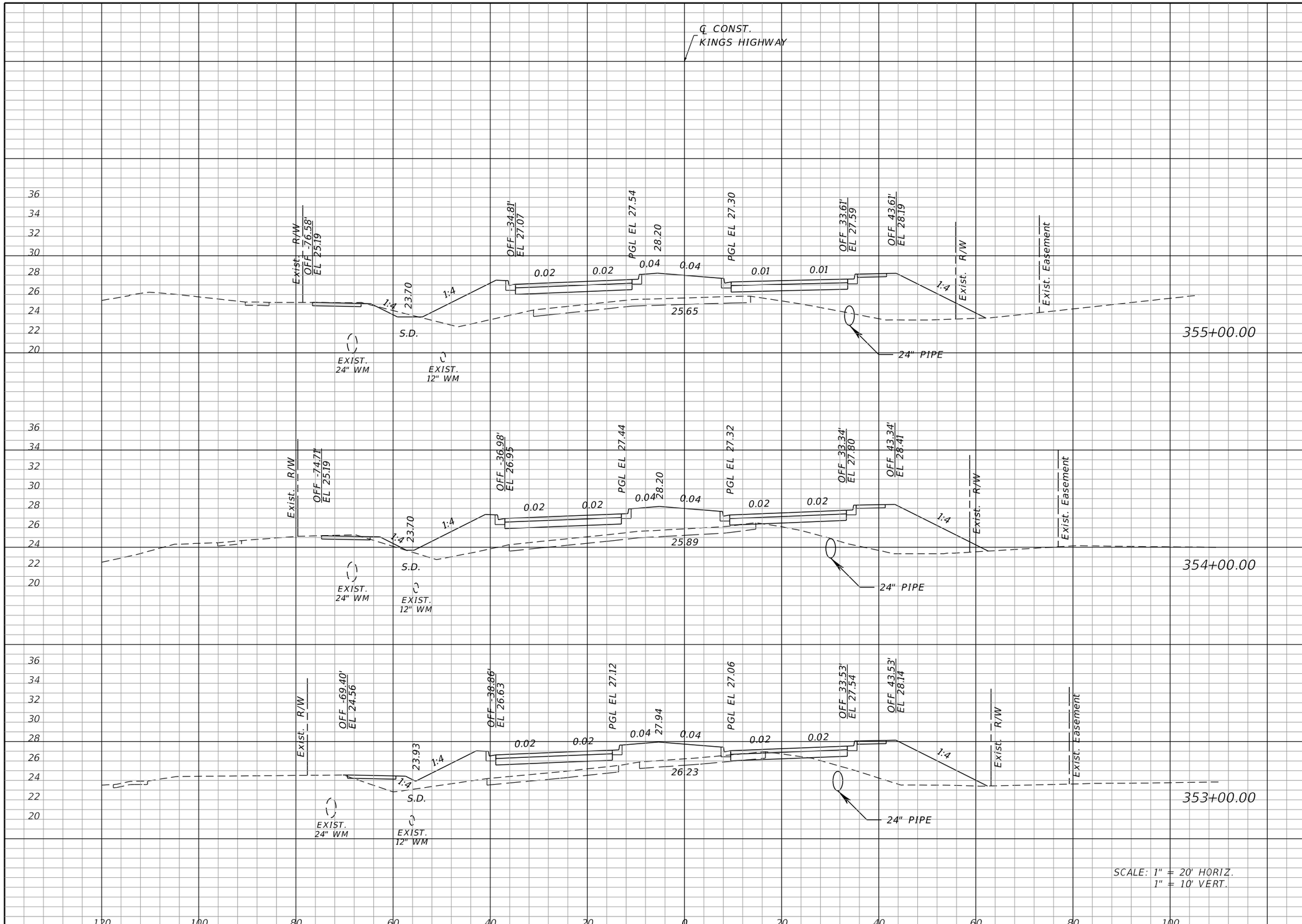
CROSS SECTIONS

SHEET NO.
32



Regular Exc.		Embankment	
A	V	A	V
13	47	287	1038
13	39	273	918
9	32	223	715

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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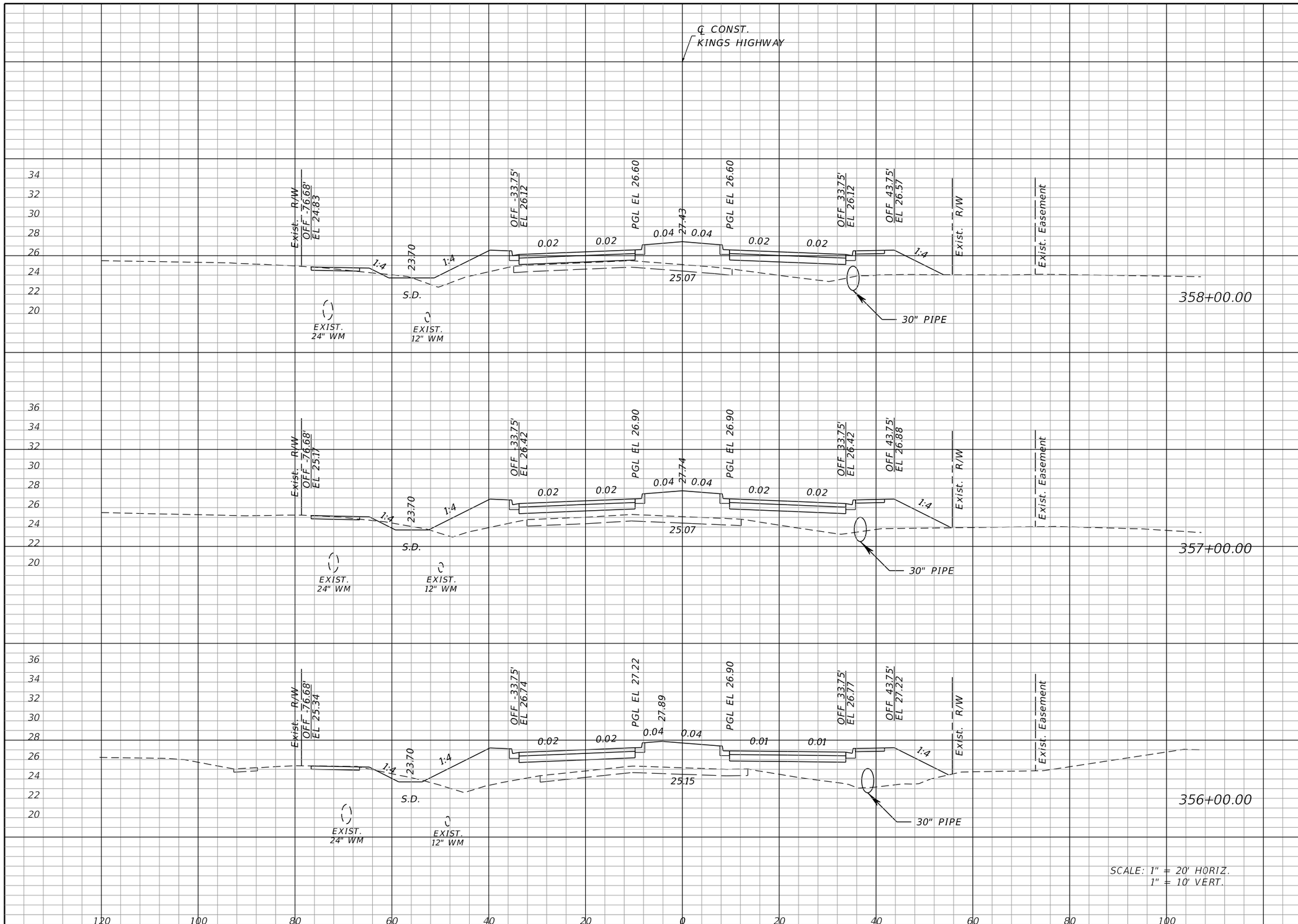
CROSS SECTIONS

SHEET NO.
33



Regular Exc.		Embankment	
A	V	A	V
6	32	167	697
12	53	209	851
17	54	251	996

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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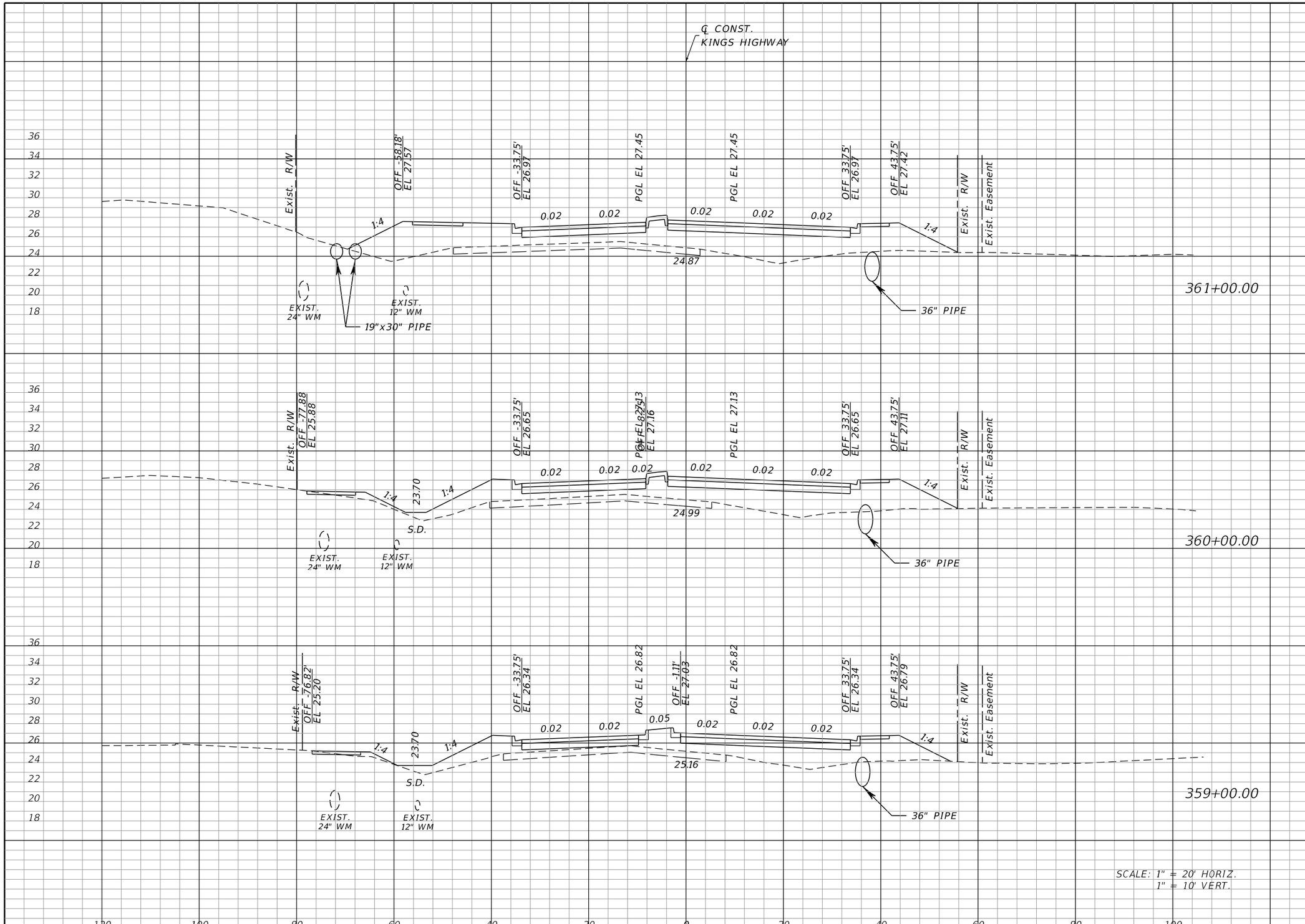
CROSS SECTIONS

SHEET NO. 34



Regular Exc.		Embankment	
A	V	A	V
6	41	225	817
16	48	216	711
10	28	168	621

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CHARLOTTE COUNTY
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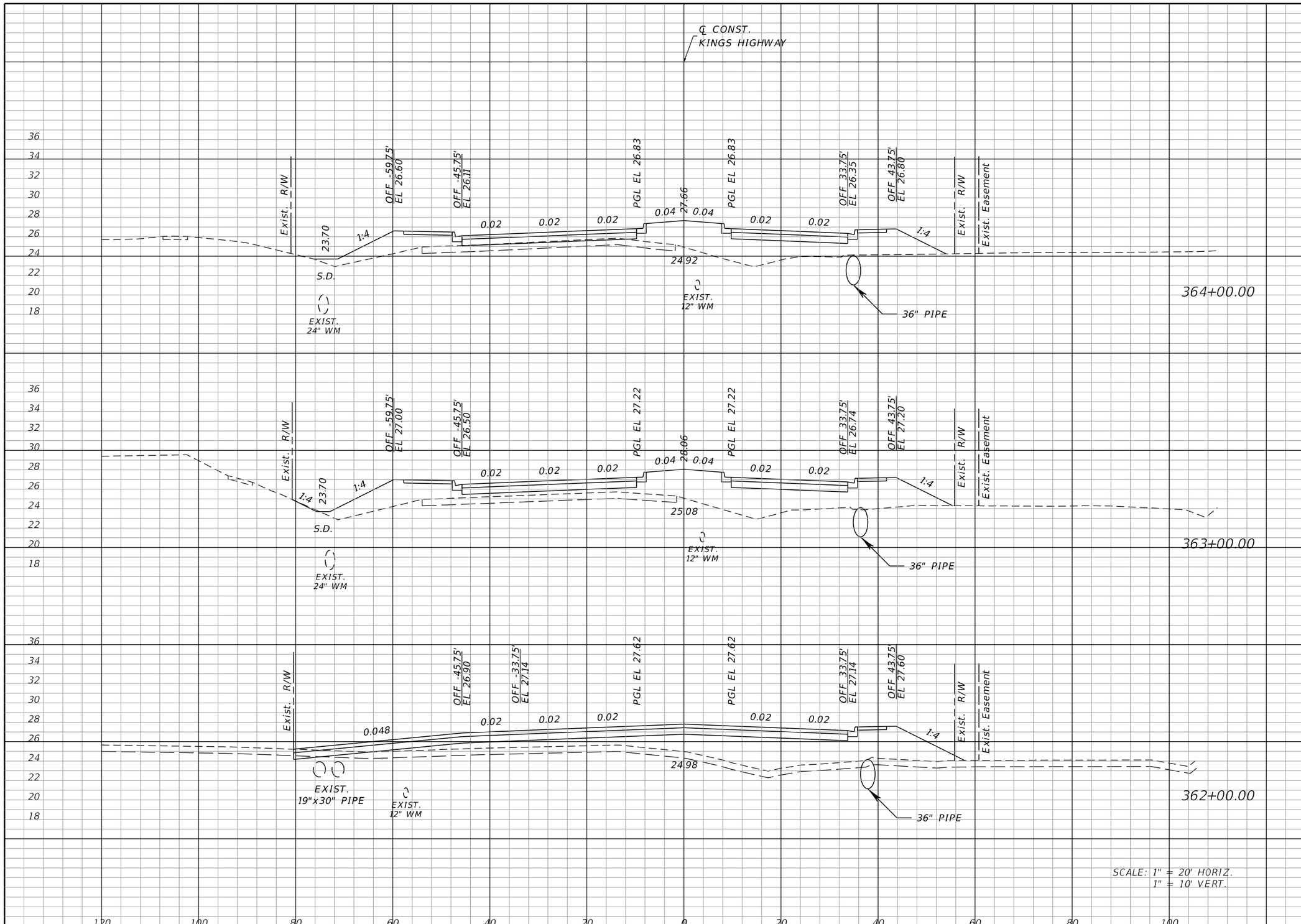
CROSS SECTIONS

SHEET NO. 35



Regular Exc.		Embankment	
A	V	A	V
0	1	164	697
0	3	212	745
1	13	190	770

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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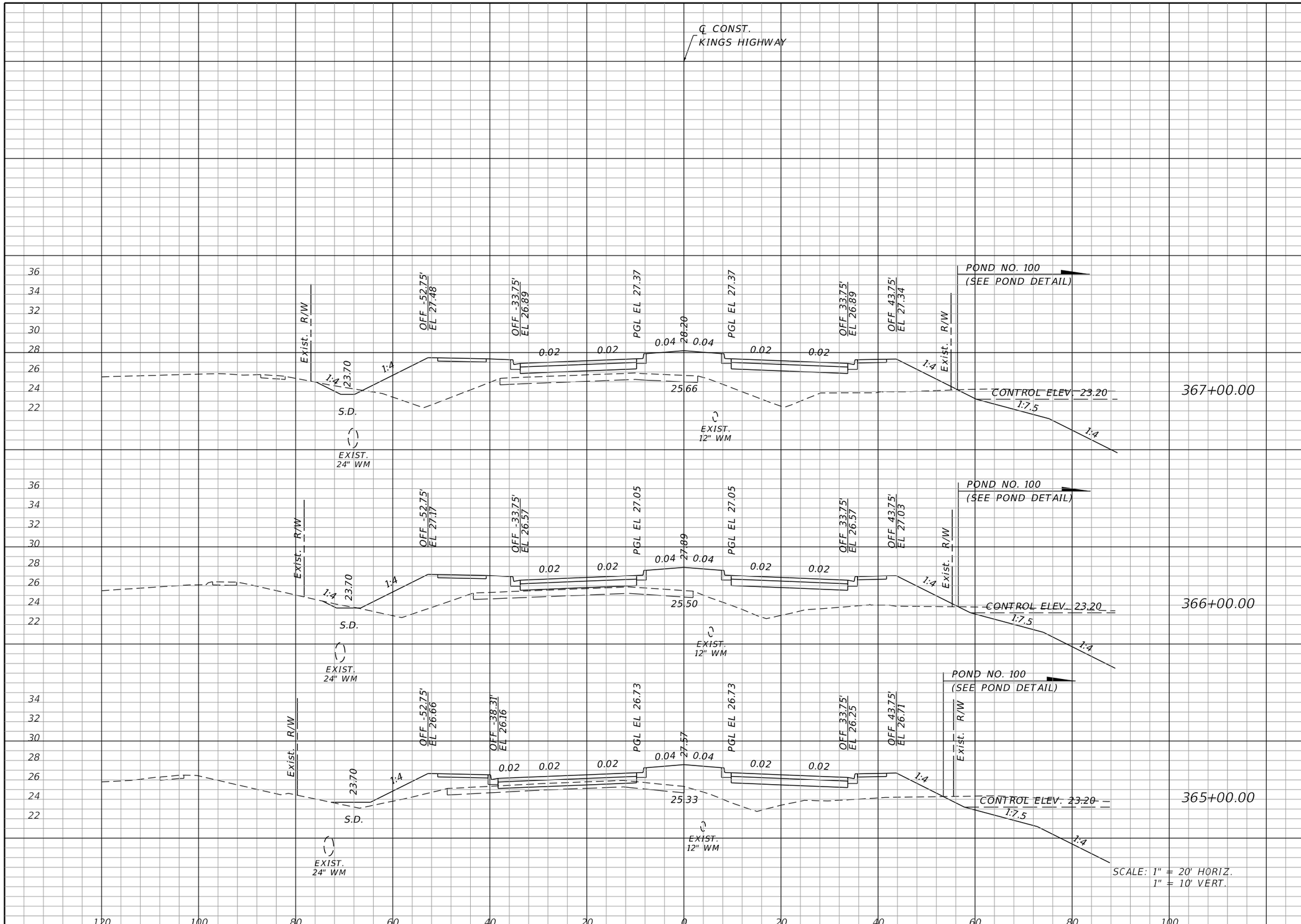
CROSS SECTIONS

SHEET NO. 36



Regular Exc.		Embankment	
A	V	A	V
6	14	255	867
2	4	213	674
0	0	151	584

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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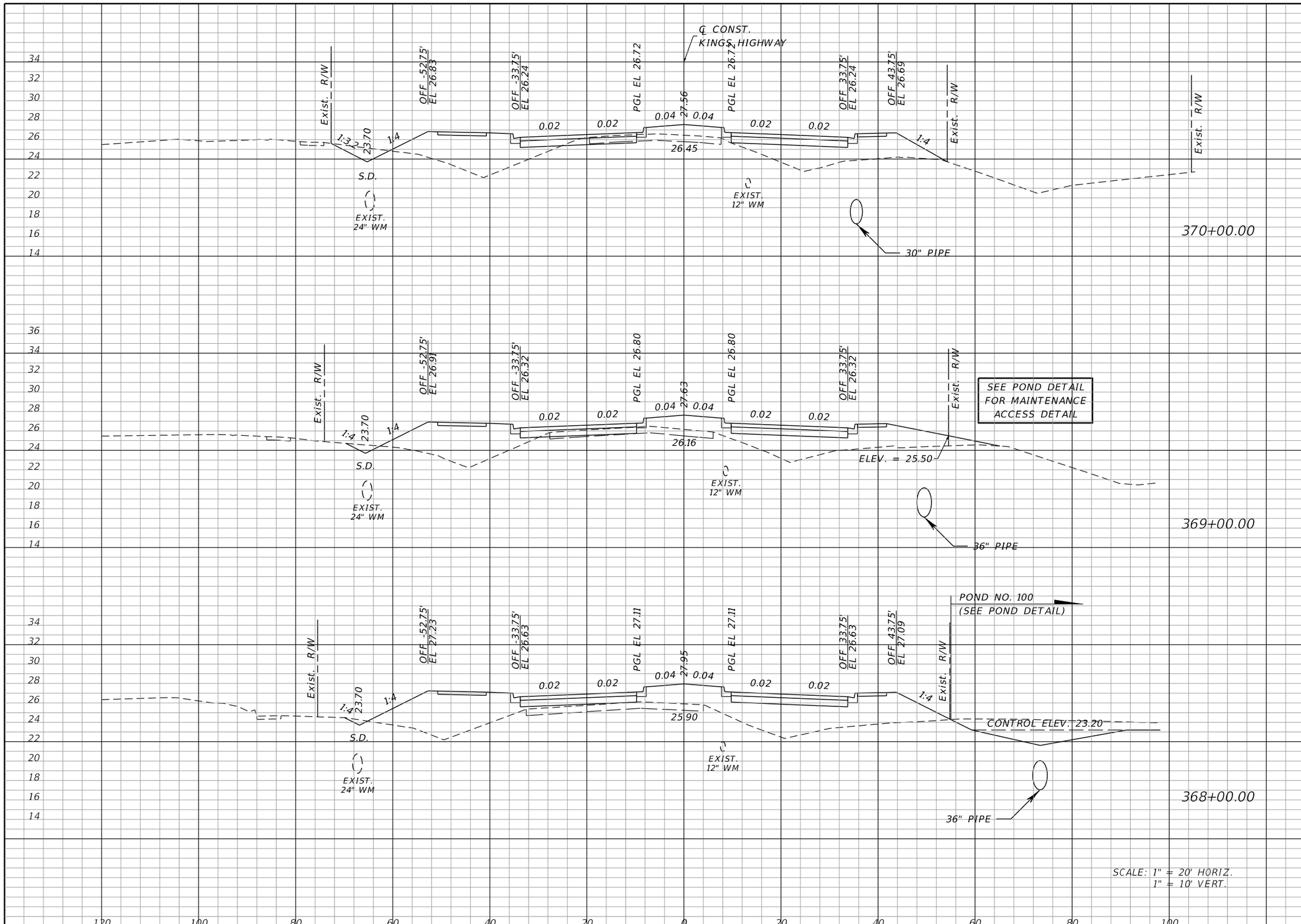
CROSS SECTIONS

SHEET NO. 37



Regular Exc.		Embankment	
A	V	A	V
15	42	169	634
8	26	173	757
6	22	235	907

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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17833 MURDOCK CIRCLE
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EB 642 & LB 642
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CHARLOTTE COUNTY
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CROSS SECTIONS

SHEET NO. 38

Regular Exc.		Embankment	
A	V	A	V
14	60	198	741
18	60	202	694
14	53	173	633

REVISIONS			
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EB 642 & LB 642
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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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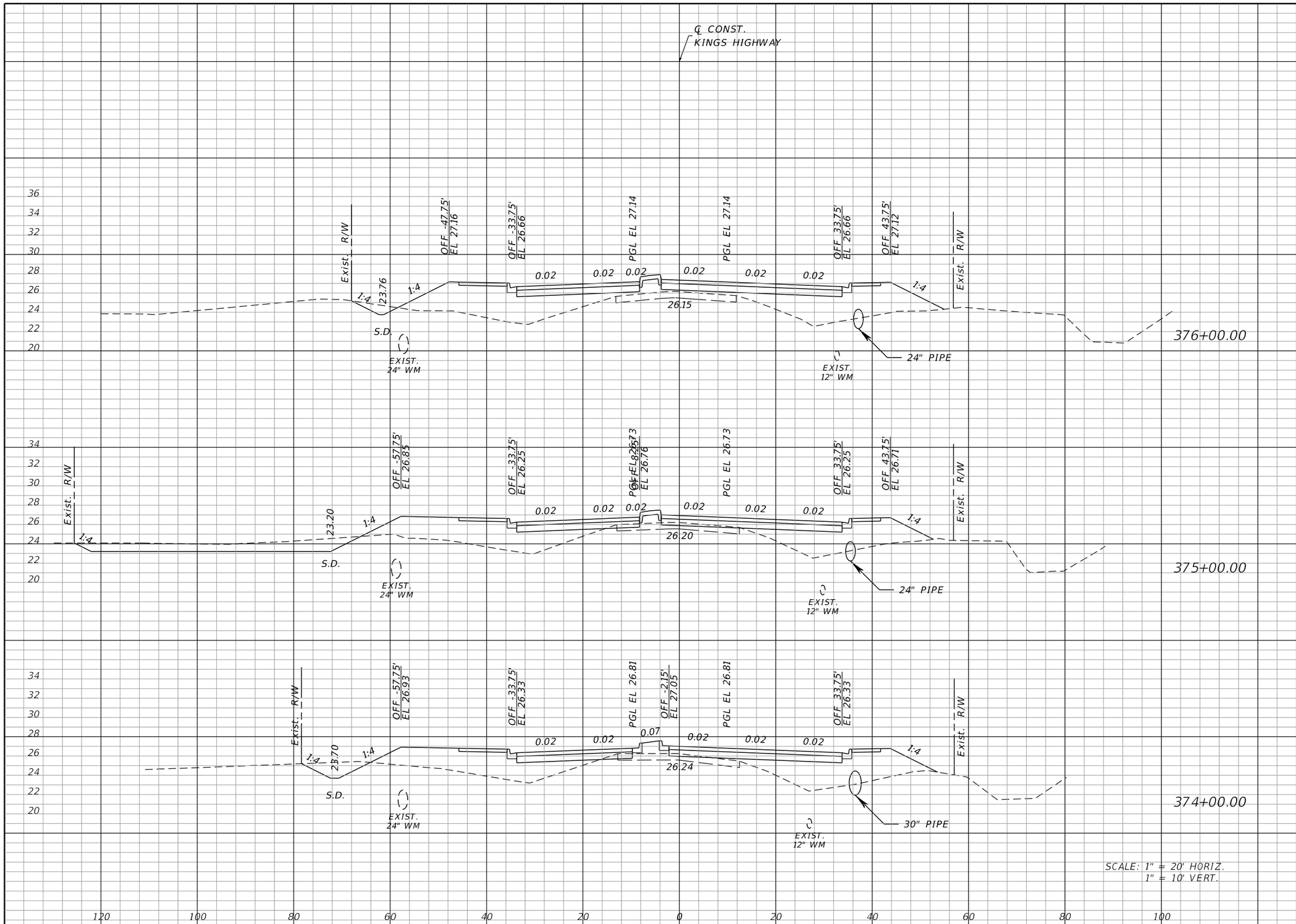
CROSS SECTIONS

SHEET NO. 39



SCALE: 1" = 20' HORIZ.
1" = 10' VERT.

Regular Exc.		Embankment	
A	V	A	V
5	79	198	635
38	103	145	550
18	60	152	649

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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PUBLIC WORKS DEPARTMENT

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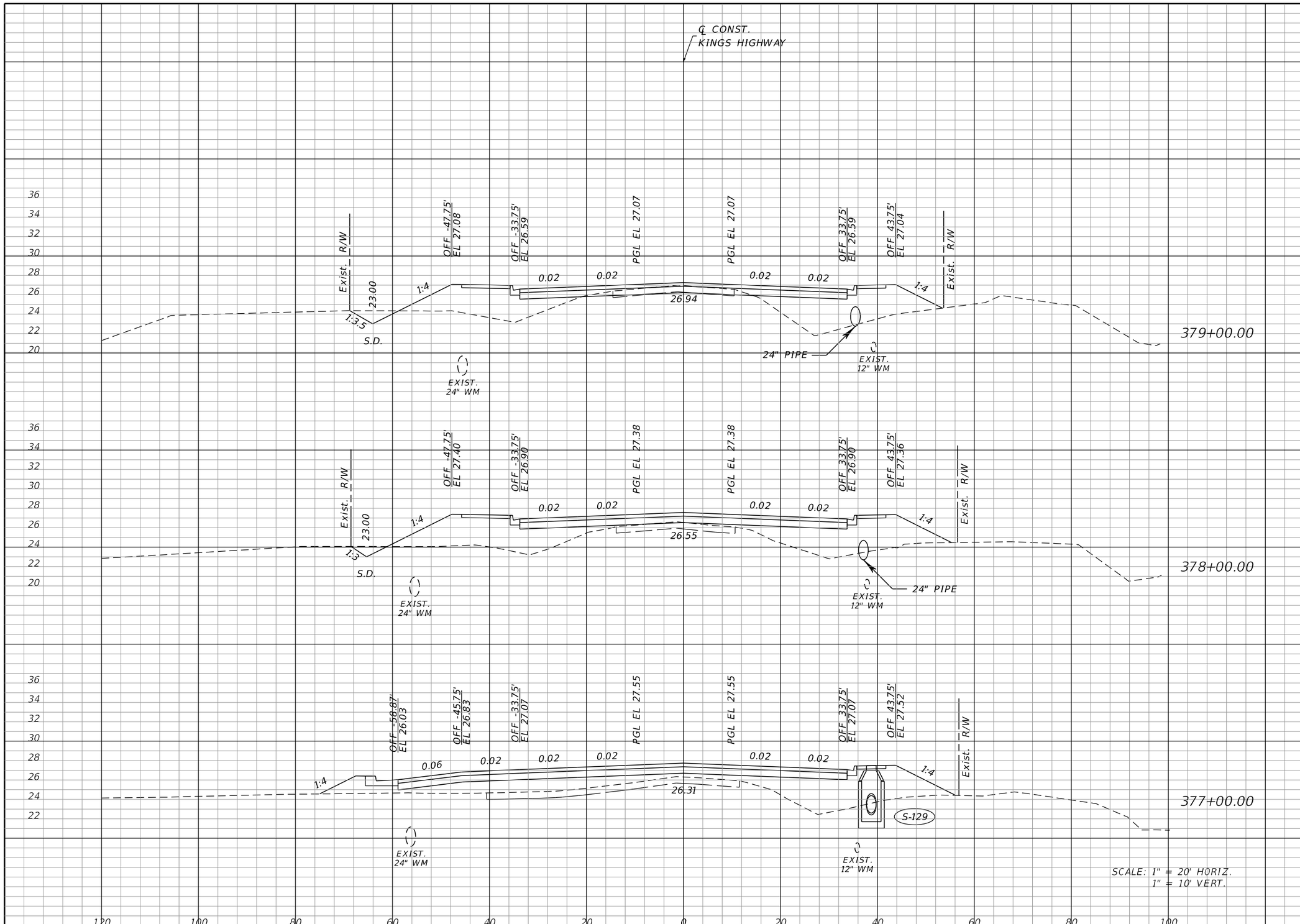
CROSS SECTIONS

SHEET NO.
40



Regular Exc.		Embankment	
A	V	A	V
10	26	161	645
4	19	187	649
6	21	163	670

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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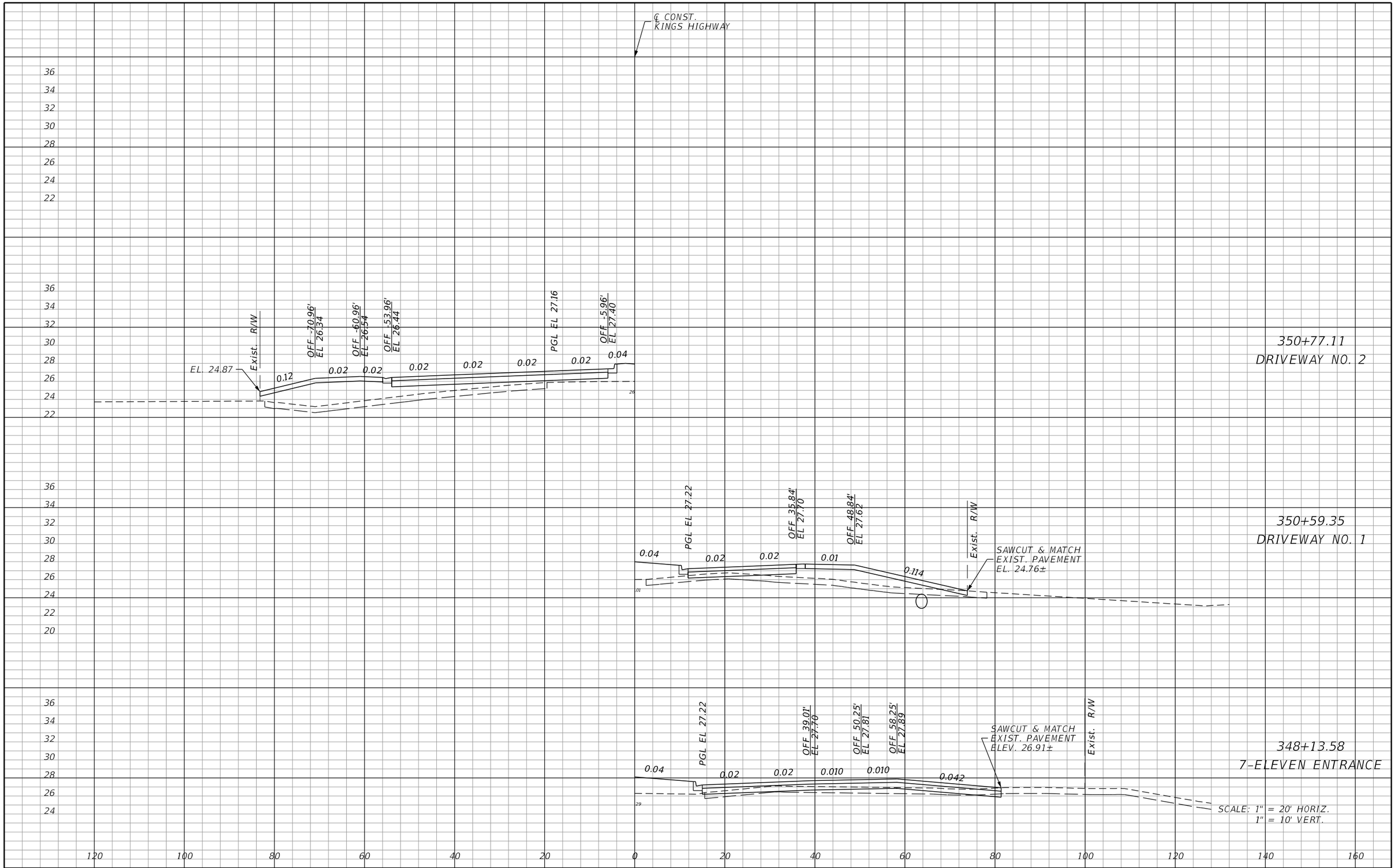
CROSS SECTIONS

SHEET NO. 41



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
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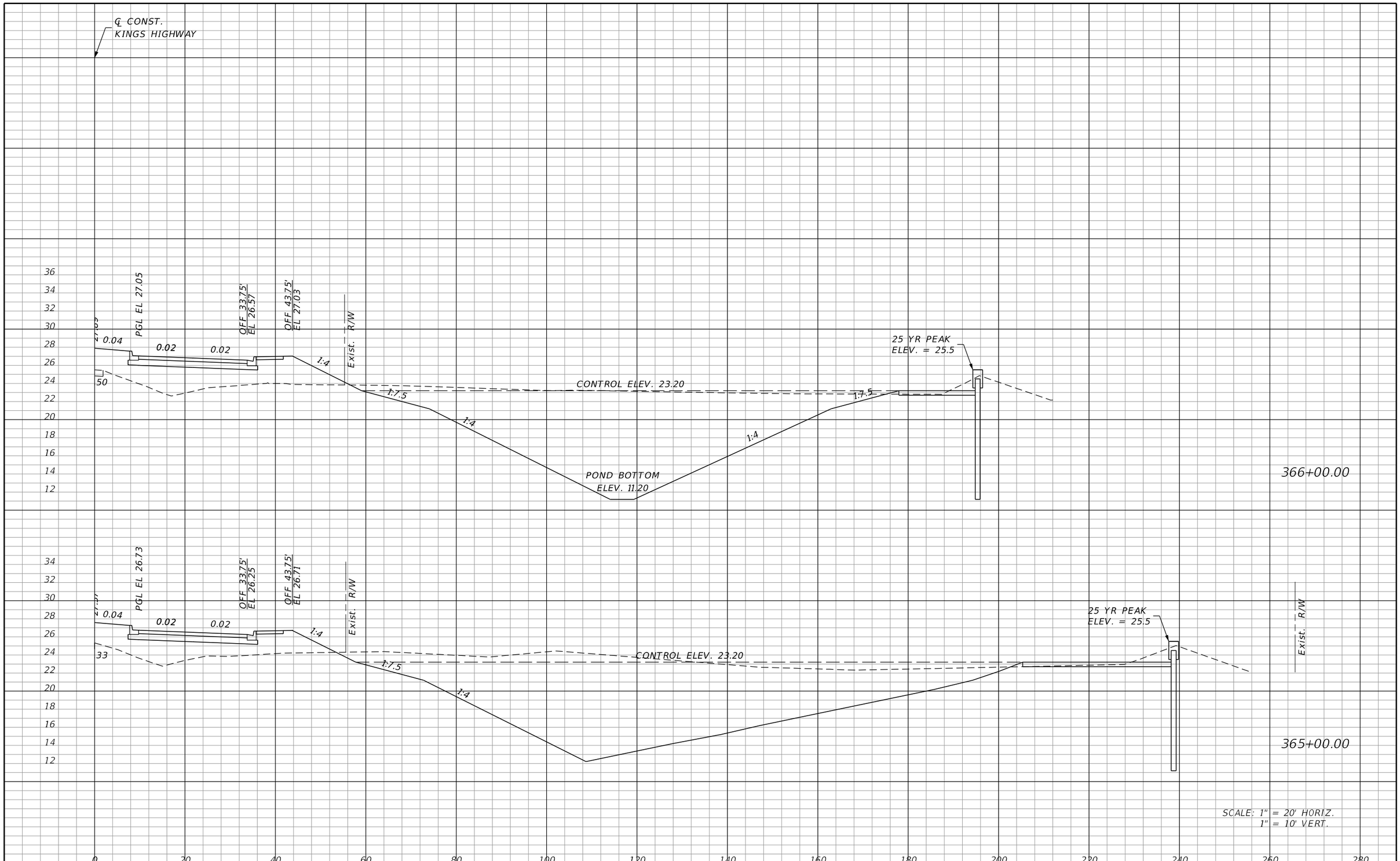
CROSS SECTIONS
DRIVEWAY & SIDE STREET

SHEET NO.
42



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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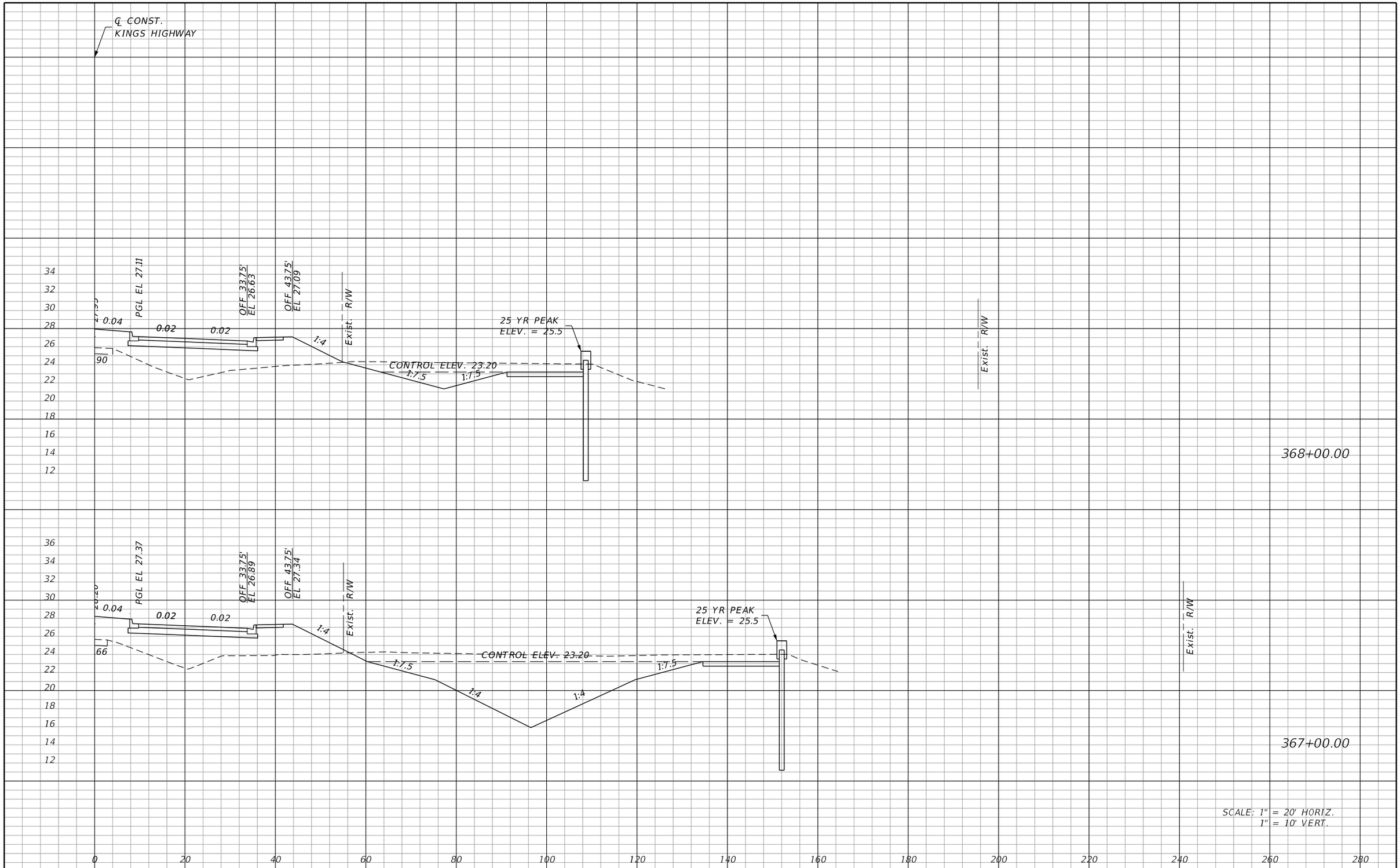
CROSS SECTIONS POND 100

SHEET NO. 43



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
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CROSS SECTIONS
POND 100

SHEET NO.
44

I. SITE DESCRIPTION:

(1) NATURE OF CONSTRUCTION ACTIVITY:

NEW CONSTRUCTION AND ROADWAY IMPROVEMENTS FOR KINGS HIGHWAY FROM SANDHILL BOULEVARD TO COURTLY MANOR DRIVE.

(2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

THE CONTRACTOR SHALL BE REQUIRED TO FOLLOW THE EROSION CONTROL PLANS INCLUDED IN THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL ALSO PREPARE A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER. APPLICABLE EROSION CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL. THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION CONTROL DEVICES FROM THE CONTRACTOR.

(3) GENERAL NOTES:

(a) ALL EROSION CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
(b) INSTALL STAKED SILT FENCE WHERE LISTED IN THE EROSION CONTROL PLANS FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.
(c) PROVIDE SYNTHETIC BALES WHERE LISTED IN THE EROSION CONTROL PLANS FOR DITCH BLOCKS DURING CONSTRUCTION.
(d) PROVIDE ROCK BAGS AT INLET OPENINGS.
(e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
(f) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
(g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
(h) DO NOT REMOVE PERIMETER CONTROLS UNTIL AFTER ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT GRASSING IS ESTABLISHED.

(4) PROJECT AREAS:

THE ESTIMATED TOTAL PROJECT AREA IS 13 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 13 ACRES.

(5) RUNOFF COEFFICIENTS BEFORE Cw(B), DURING Cw(D), AND AFTER Cw(A) CONSTRUCTION:

RUNOFF COEFFICIENT FOR:
GRASSED SHOULDERS ADJACENT TO ROADWAY: C= 0.3
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C= 0.95
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C= 0.3

WEIGHTED RUNOFF COEFFICIENT:
BEFORE: Cw(B) = 0.4 DURING: Cw(D) = 0.4 AFTER: Cw(A) = 0.6
THE RUNOFF COEFFICIENT DURING CONSTRUCTION, Cw(D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION.

(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:

THE SOILS THAT MAY EXIST WITHIN THE PROJECT LIMITS ARE GENERALLY SANDY SOILS AS SHOWN IN THE USDA SOIL SURVEY MAPS.

(7) ESTIMATED DRAINAGE AREA AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:

(a) SITE MAP: SEE CONSTRUCTION PLANS
(b) DRAINAGE MAP: SEE CONSTRUCTION PLANS

(8) RECEIVING WATERS:

DESOTO CANAL

(9) THE OUTFALLS ARE NOT 303(d) LISTED WATERS FOR TOTAL SUSPENDED SOLIDS (TSS), TURBIDITY, AND SETTLEABLE SOLIDS.

(10) OUTFALL LOCATIONS:

STRUCTURE CS-100 (SEE POND DETAIL)

(11) WETLAND IMPACTS ARE DETAILED IN THE ENVIRONMENTAL RESOURCE PERMIT AND ASSOCIATED DOCUMENTATION.

(12) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

(a) PRESENTLY EXISTING DRAINAGE FLOWS GENERALLY SOUTH AND WEST TO EXISTING CANALS VIA EXSITING ROADSIDE SWALES.
(b) OFF-SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO EROSION CONTROL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.
(c) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. THIS WILL BE ACCOMPLISHED BY WATERING DISTURBED AREAS.
(d) THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE WATERWAYS.

II. CONTROLS:

EROSION AND SEDIMENT CONTROLS

(1) WATER QUALITY MONITORING SHALL BE CONDUCTED BY THE CONTRACTOR UPON THE OBSERVATION THAT THE WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS SHALL BE DESIGNATED BY THE PROJECT ENGINEER. THE CONSTRUCTION MANAGER WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS RELATED TO TURBIDITY (29NTU'S ABOVE BACKGROUND). MONITORING WILL BE ACCOMPLISHED BY RECORDING TURBIDITY READINGS FROM THE CENTER OF THE STREAM, ONE (1) UPSTREAM OF THE ACTIVITY AND ONE (1)DOWNSTREAM OF THE EROSION CONTROL DEVICES, BUT WITHIN THE PROJECT RIGHT OF WAY. IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHOULD BE STOPPED IMMEDIATELY AND EROSION CONTROL DEVICES RE-EVALUATED BY THE CHARLOTTE COUNTY REPRESENTATIVE PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (29NTU'S ABOVE BACKGROUND). WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE COUNTY.

(2) STABILIZATION PRACTICES:

STABILIZATION MEASURES, SUCH AS PERFORMANCE TURF (SODDING) OF SIDE SLOPES PER FDOT SPECIFICATION SECTION 570 SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE SHALL THE TIME BE GREATER THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES.

(3) STRUCTURAL PRACTICES INCLUDE:

(a) SEDIMENT BARRIER - STAKED SILT FENCES
(b) FLOATING TURBIDITY BARRIER
(c) INLET PROTECTION SYSTEM

(4) SILT FENCE LOCATIONS:

(a) STAKED SILT FENCE SHALL BE LOCATED AT MINIMUM AS SHOWN IN THE EROSION CONTROL PLANS.
(b) STOCKPILE AREAS SHALL INCLUDE STAKED SILT FENCE AROUND THE PERIMETER.

(5) SYNTHETIC BALE LOCATIONS:

GENERALLY, SYNTHETIC BALES SHALL BE INSTALLED AT PROPOSED INLET LOCATIONS AND AS DITCH BLOCKS TO AVOID DOWNSTREAM SILTATION. DITCH BLOCKS SHOULD BE LOCATED APPROXIMATELY EVERY 300 FEET OR 90 M.

(6) CONSTRUCTION ENTRANCES/EXITS:

SOIL TRACKING PREVENTION DEVICES SHALL BE PROVIDED FOR BOTH ON-SITE AND OFF-SITE LOCATIONS OF STOCKPILED OR EXCAVATED MATERIAL, INCLUDING PROPOSED POND SITES. IF IMMEDIATELY ADJACENT TO A PUBLIC ROADWAY, THE ENGINEER SHALL BE RESPONSIBLE FOR MODIFYING THE SYSTEM OR PROCEDURES AS NEEDED.

(7) TURBIDITY BARRIER LOCATION:

(a) STAKED TURBIDITY BARRIER IS TO BE USED IN AREAS WHERE WATER BODIES ARE LESS THAN 0.91 M (3 FEET) DEEP.
(b) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS.
(c) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF SOILS HAVE BEEN ACHIEVED.

III. OTHER CONTROLS:

(1) WASTE DISPOSAL:

(a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.
(b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
(c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS SHALL BE DISCHARGED TO WETLANDS OR BURIED ON-SITE.
(d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

(2) OFF-SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:

(a) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES.
(b) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.

(3) STATE AND LOCAL REGULATIONS: PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES:

FDEP (NPDES) (CONTRACTOR TO OBTAIN)

(4) NON-STORMWATER (INCLUDING SPILL REPORTING)

THE CONTRACTOR WILL PROVIDE THE COUNTY WITH AN EROSION CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES.

IV. MAINTENANCE:

(1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED.

(2) THE FOLLOWING PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:

GENERAL - ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.

(3) STRUCTURAL PRACTICES:

SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. STAKED SILT FENCES SHALL BE REPLACED EVERY TWELVE (12) MONTHS OR WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

V. INSPECTION:

(1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT. ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR.

(2) ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

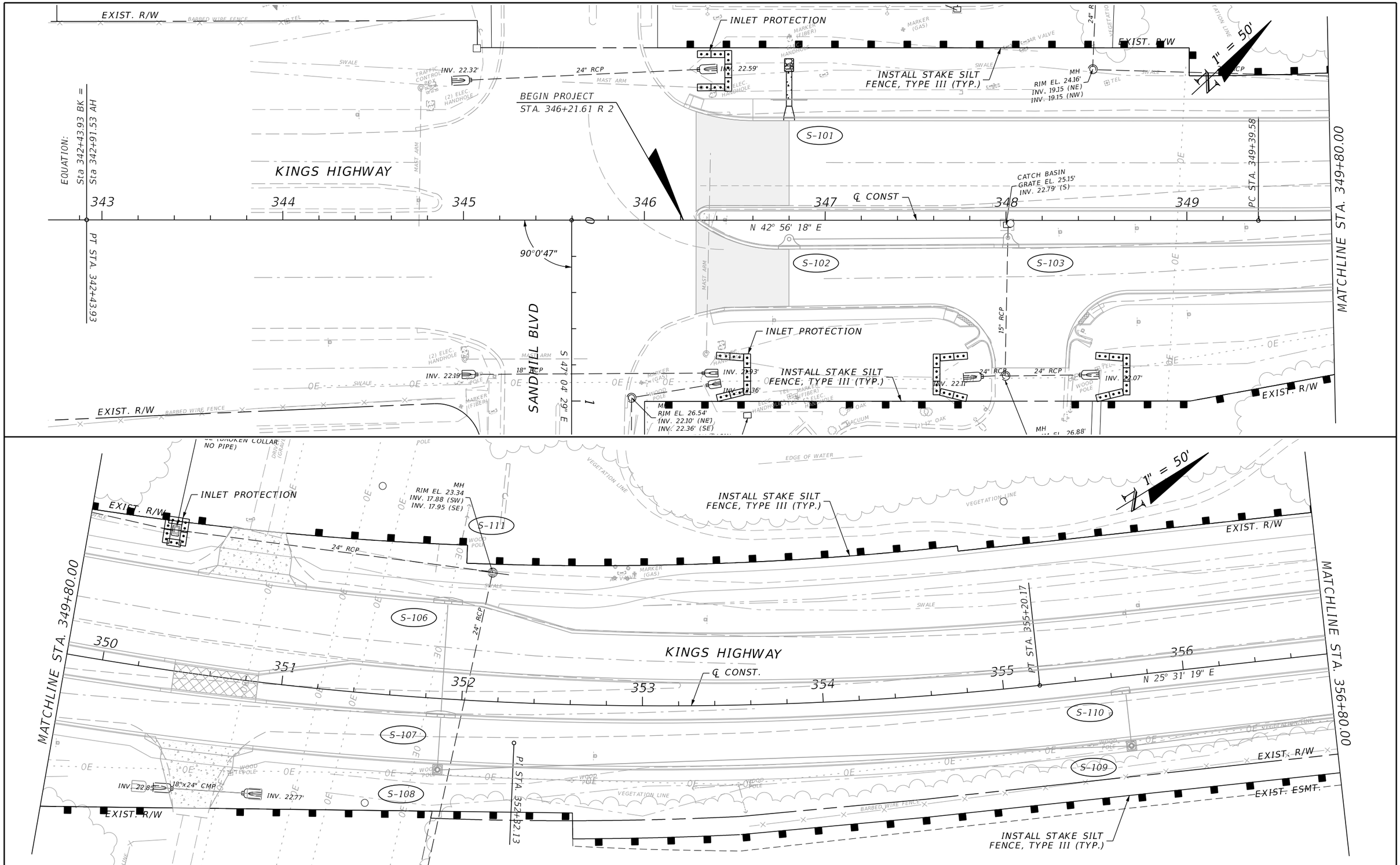
(3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

VI. TRACKING AND REPORTING:

(1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE COUNTY DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.

(2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVICES.

(3) THE CONTRACTOR SHALL USE THE CONSTRUCTION INSPECTION REPORT (# 650-040-03) DATED 11/09 FOR DAILY INSPECTIONS.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

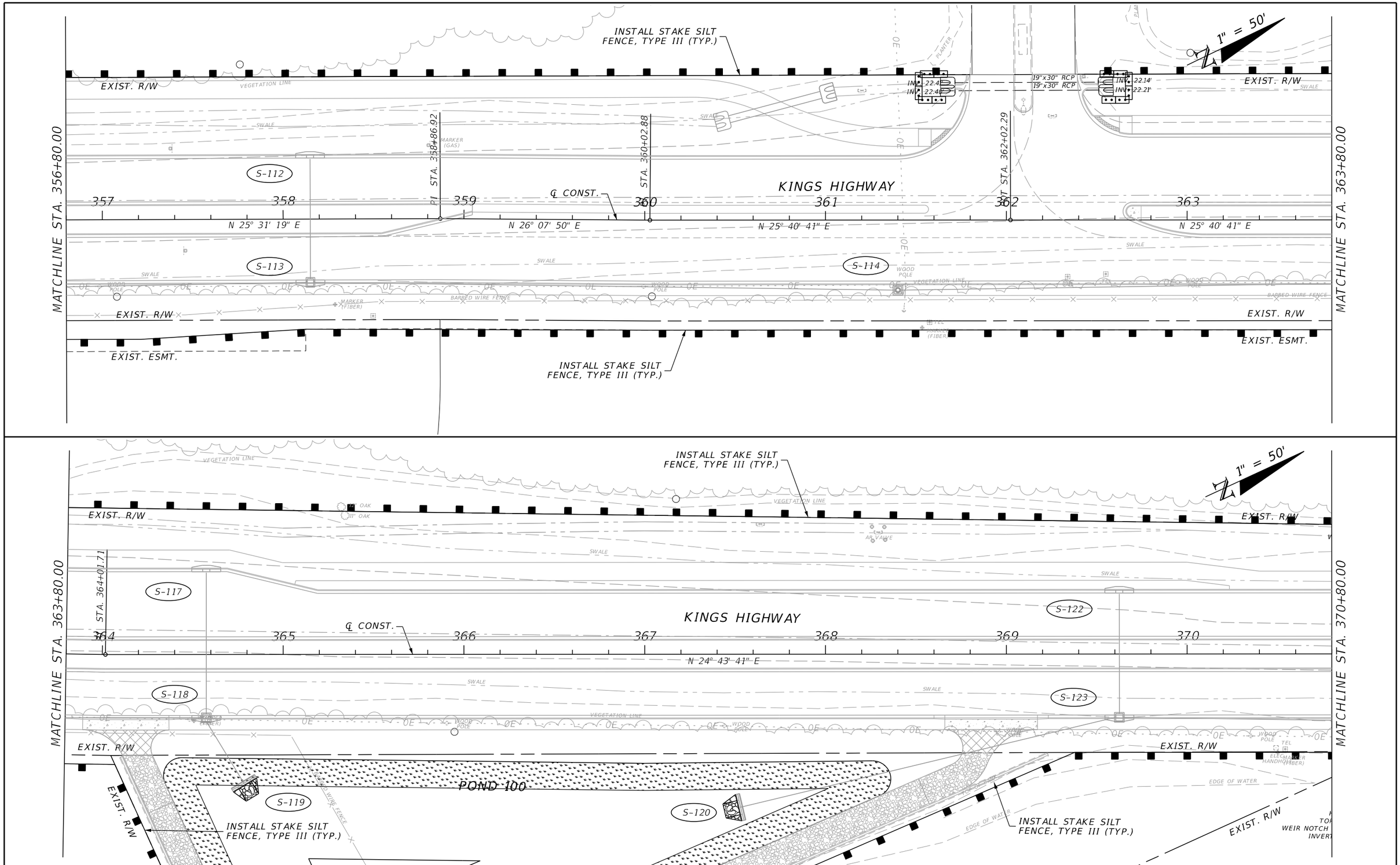
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

EROSION CONTROL PLANS

SHEET NO. 47



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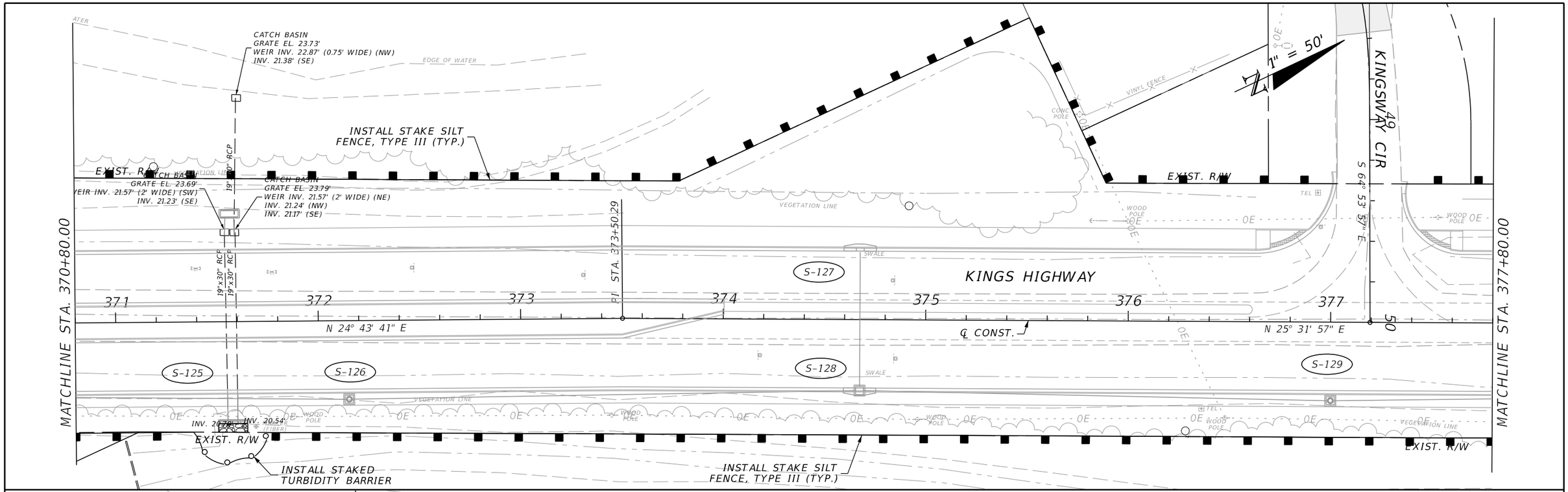
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

EROSION CONTROL PLANS

SHEET NO. 48



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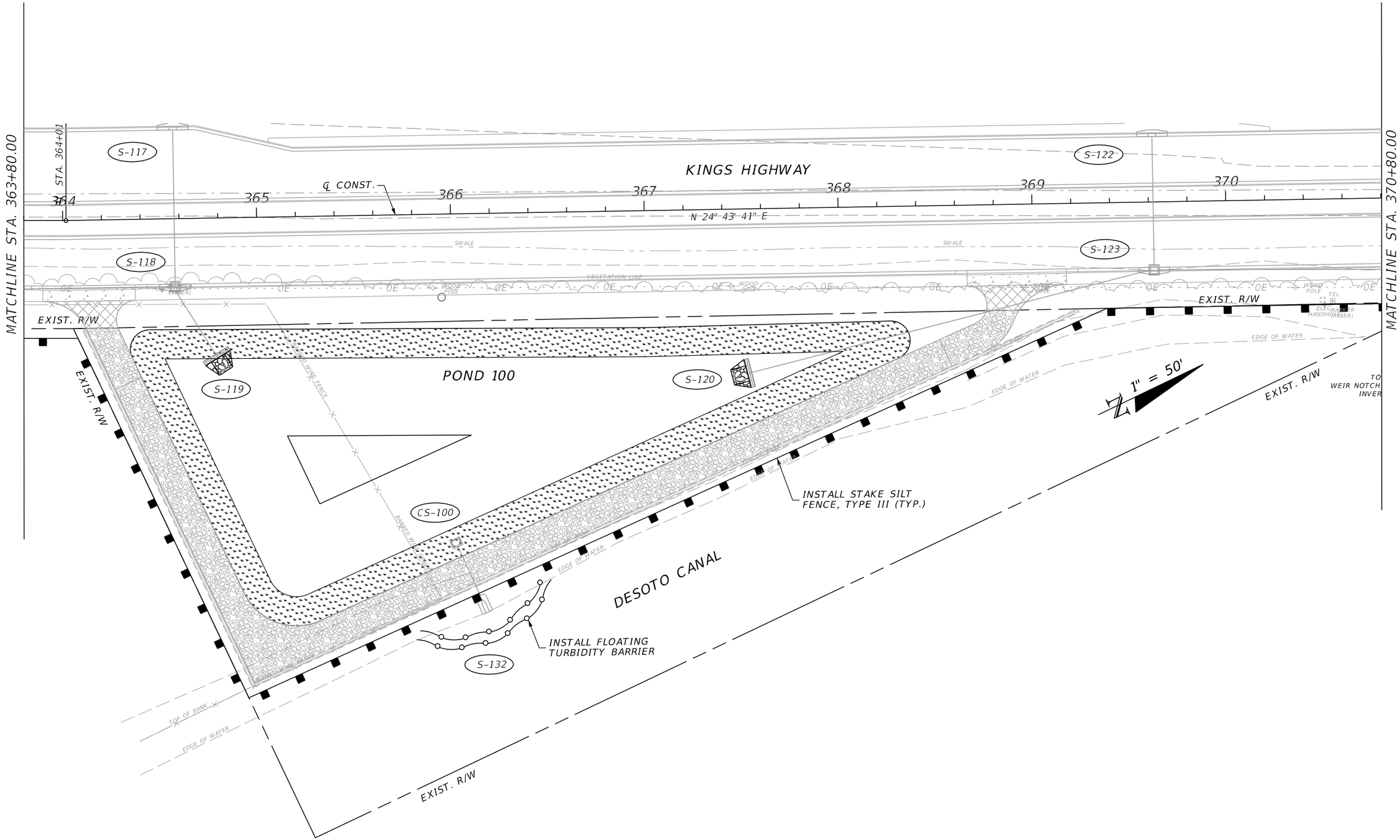
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

EROSION CONTROL PLANS

SHEET NO. 49



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DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

EROSION CONTROL PLANS

SHEET NO.
50

TRAFFIC CONTROL GENERAL NOTES

1. THE INTENT OF THE TEMPORARY TRAFFIC CONTROL PHASING PLANS IS TO CONVEY THE GENERAL INTENT OF THE CONSTRUCTION SEQUENCING. CONTRACTOR SHALL PROVIDE FULL TRAFFIC CONTROL PLANS (TCP) SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER TO COUNTY FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION. ALL COSTS FOR TCP PRODUCTION AND SUBSEQUENT PLAN IMPLEMENTATION AND MAINTENANCE SHALL BE INCLUDED IN THE MAINTENANCE OF TRAFFIC (LUMP SUM) PAY ITEM.
2. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE LATEST VERSIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SERIES 600 OF THE FDOT STANDARD PLANS AT ALL TIMES.
3. POSTED SPEED LIMIT ON MAINLINE MAY BE REDUCED BY 10 MPH DURING CONSTRUCTION. EXISTING POSTED SPEED ALONG ALL OTHER SIDE STREETS SHALL REMAIN DURING CONSTRUCTION. TRAFFIC SHALL MAINTAINED ON PAVED SURFACES AT ALL TIMES.
4. ALL EXISTING SIGNS AND PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN DURING A CONSTRUCTION PHASE, SHALL BE REMOVED, COVERED, OR TEMPORARILY RELOCATED AS NECESSARY PRIOR TO THE DIVERSION OF TRAFFIC AND THE COMMENCEMENT OF CONSTRUCTION.
5. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
6. REMOVAL OF ANY CONFLICTING STRIPING IS TO BE INCLUDED IN THE MAINTENANCE OF TRAFFIC (LUMP SUM) PAY ITEM.
7. ALL PAVEMENT MARKINGS USED FOR TEMPORARY TRAFFIC CONTROL WILL BE PAINT. NO TEMPORARY MARKING SHALL BE ALLOWED ON FINAL ASPHALT FRICTION COURSE.
8. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES. ANY TEMPORARY DRAINAGE FEATURES SHALL BE REMOVED, PRIOR TO COMPLETION.
9. CONTRACTOR SHALL COMPLY WITH THE UTILITY NOTIFICATION PROCEDURE OF FLORIDA STATUTES CHAPTER 556 (UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT).
10. TEMPORARY EROSION CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION BEGINS AND MAINTAINED THROUGHOUT.
11. TEMPORARY LANE CLOSURES WITH ONE WAY TRAFFIC MAY ONLY BE ALLOWED WITH COUNTY APPROVAL. CONTRACTOR TO COORDINATE WITH COUNTY ON TIMING AND DURATION. NO LANE CLOSURES ARE PERMITTED WITHIN PEAK TRAVEL TIME INCLUDING 6AM – 7PM. ALL OPERATIONS REQUIRING LANE CLOSURES SHALL BE PHASED AND PLANNED TO ALLOW TRAVEL LANES TO BE RESTORED AND OPENED AT THE BEGINNING OF THE PEAK TRAVEL TIMES NOTED ABOVE.
12. CONTRACTOR TO DETERMINE PAVEMENT SECTION FOR TEMPORARY AND MAINTAIN PAVEMENT IN REASONABLE CONDITION FREE OF SETTLEMENT AND POTHOLES. CONTRACTOR SHALL REPAIR/REPLACE ANY DAMAGED TEMPORARY PAVEMENT IMMEDIATELY UPON NOTIFICATION BY COUNTY AT NO ADDITIONAL EXPENSE.

PHASING NOTES

PHASE 1

1. INSTALL ADVANCE WARNING SIGNS IN ACCORDANCE WITH THE APPROVED TRAFFIC CONTROL PLANS (TCP) AND THE 600 SERIES OF THE STANDARD INDEX.
2. PLACE WORK ZONE SIGNAGE AND TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH APPROVED TCP'S MAINTAINING TRAFFIC ON EXISTING ROADWAY.
3. PERFORM PRELIMINARY WORK OUTSIDE OF EXISTING ROADWAY INCLUDING ESTABLISHING EROSION CONTROL MEASURES, CLEARING AND GRUBBING, UTILITY ADJUSTMENTS AND POND 100 CONSTRUTION.
4. CONSTRUCT TEMP DITCH AND TEMP PAVEMENT ON WEST SIDE AS NECESSARY TO MAINTAIN TRAFFIC AS SHOWN IN PHASE 2.

PHASE 2

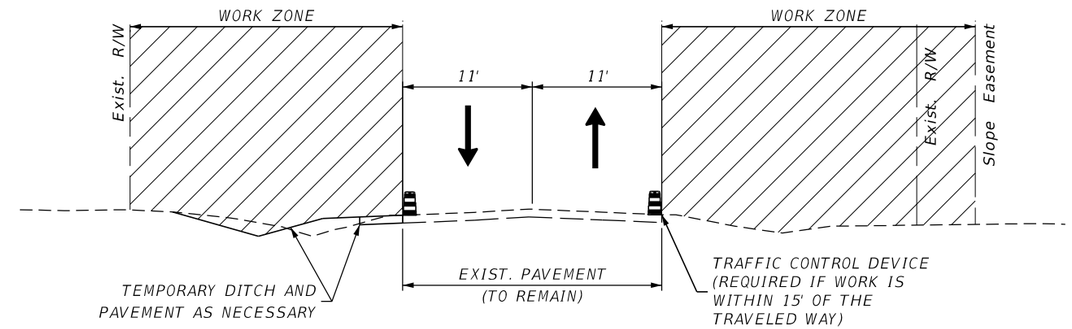
1. PLACE WORK ZONE SIGNAGE AND TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH APPROVED TCP'S AND SHIFT TRAFFIC TO THE WEST AS NECESSARY TO CLEAR EAST SIDE WORK ZONE.
2. CONSTRUCT ALL EAST SIDE DRAINAGE AND RIGHT ROADWAY (EXCLUDING FRICTION COURSE).
3. SOD/STABILIZE EAST SIDE.

PHASE 3

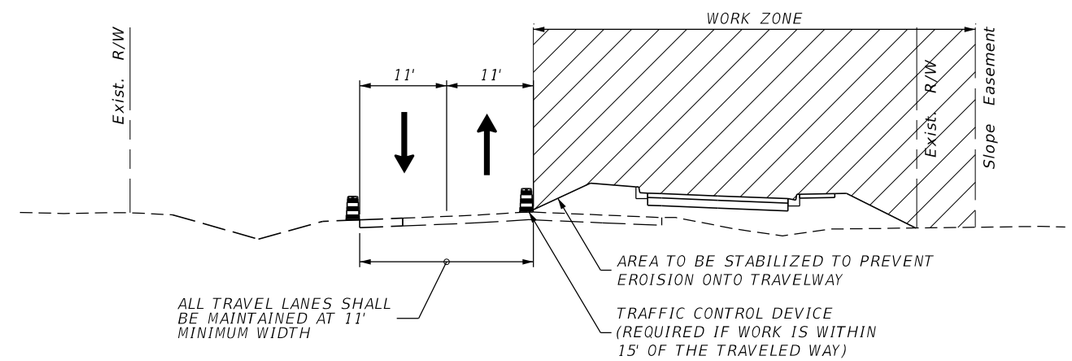
1. PLACE WORK ZONE SIGNAGE AND TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH APPROVED TCP'S AND SHIFT TRAFFIC TO THE EAST ON NEWLY CONSTRUCTED RIGHT ROADWAY.
2. CONSTRUCT ALL WEST SIDE DRAINAGE AND LEFT ROADWAY (EXCLUDING FRICTION COURSE).
3. SOD/STABILIZE WEST SIDE AND MEDIAN.
4. CONSTRUCT WEST SIDE FRICTION COURSE AND ULTIMATE SIGNING AND MARKING.

PHASE 4 (NOT SHOWN)

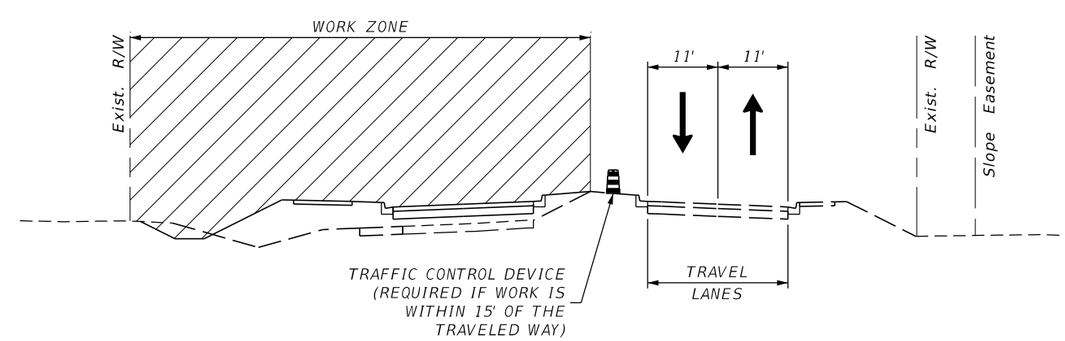
1. PLACE WORK ZONE SIGNAGE AND TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH APPROVED TCP'S AND SHIFT SOUTHBOUND TRAFFIC TO NEWLY CONSTRUCTED LEFT ROADWAY.
2. MAINTAIN SINGLE LANE NORTHBOUND TRAFFIC ON RIGHT ROADWAY.
3. CONSTRUCT EAST SIDE FRICTION COURSE (ALTERNATING SINGLE LANE NORTHBOUND TRAFFIC) AND ULTIMATE SIGNING AND MARKING.
4. PERFORM FINAL CLEANUP REMOVING EROSION CONTROL AND MOT DEVICES AND OPEN TO ULTIMATE FOUR LANE TRAFFIC.



PHASE I
NOT TO SCALE



PHASE II
NOT TO SCALE



PHASE III
NOT TO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

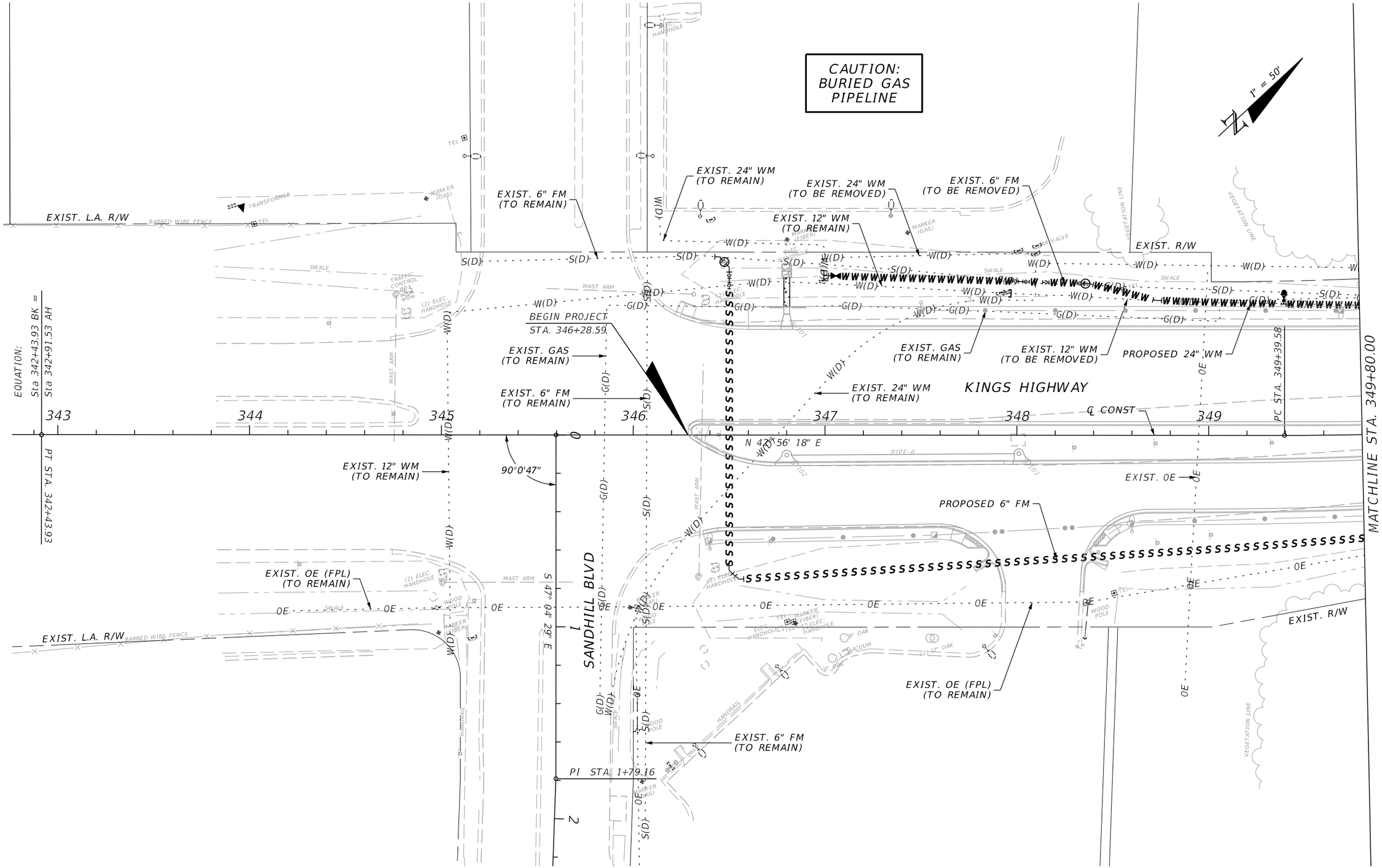
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

TEMPORARY TRAFFIC CONTROL PHASING PLAN

SHEET NO. 51



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17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
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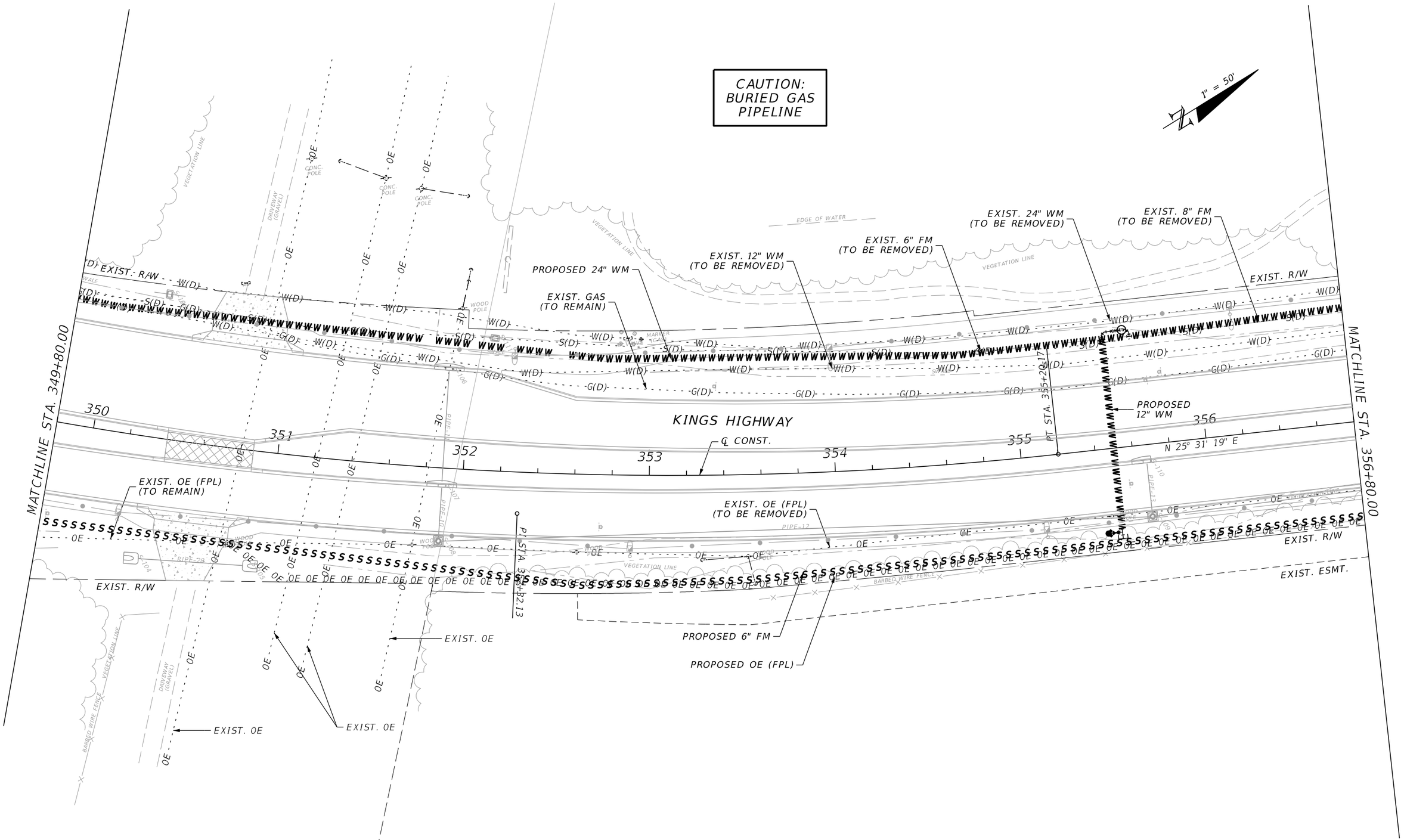
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 52



REVISIONS			
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JOHNSON
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17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
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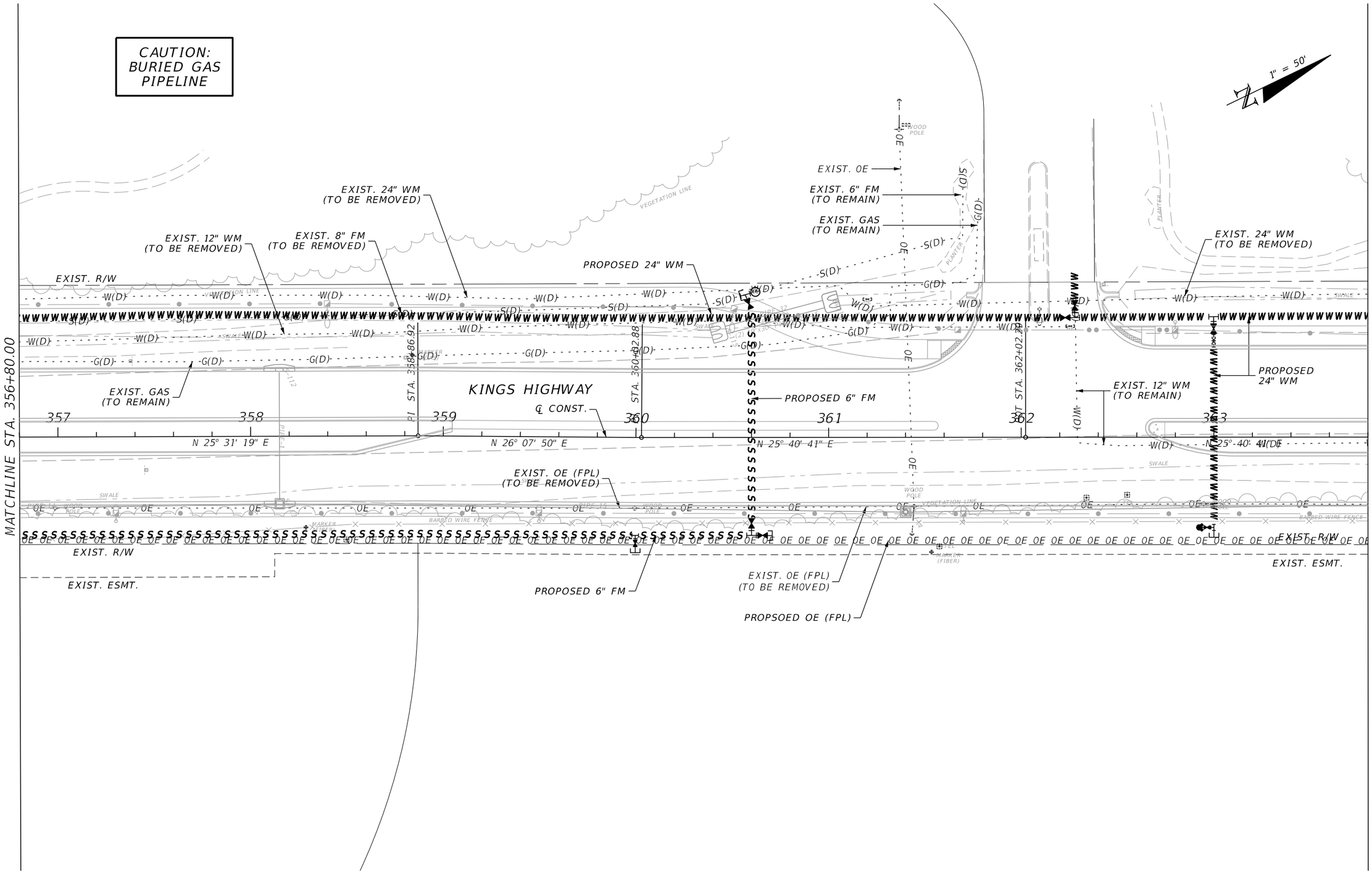
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO.
53



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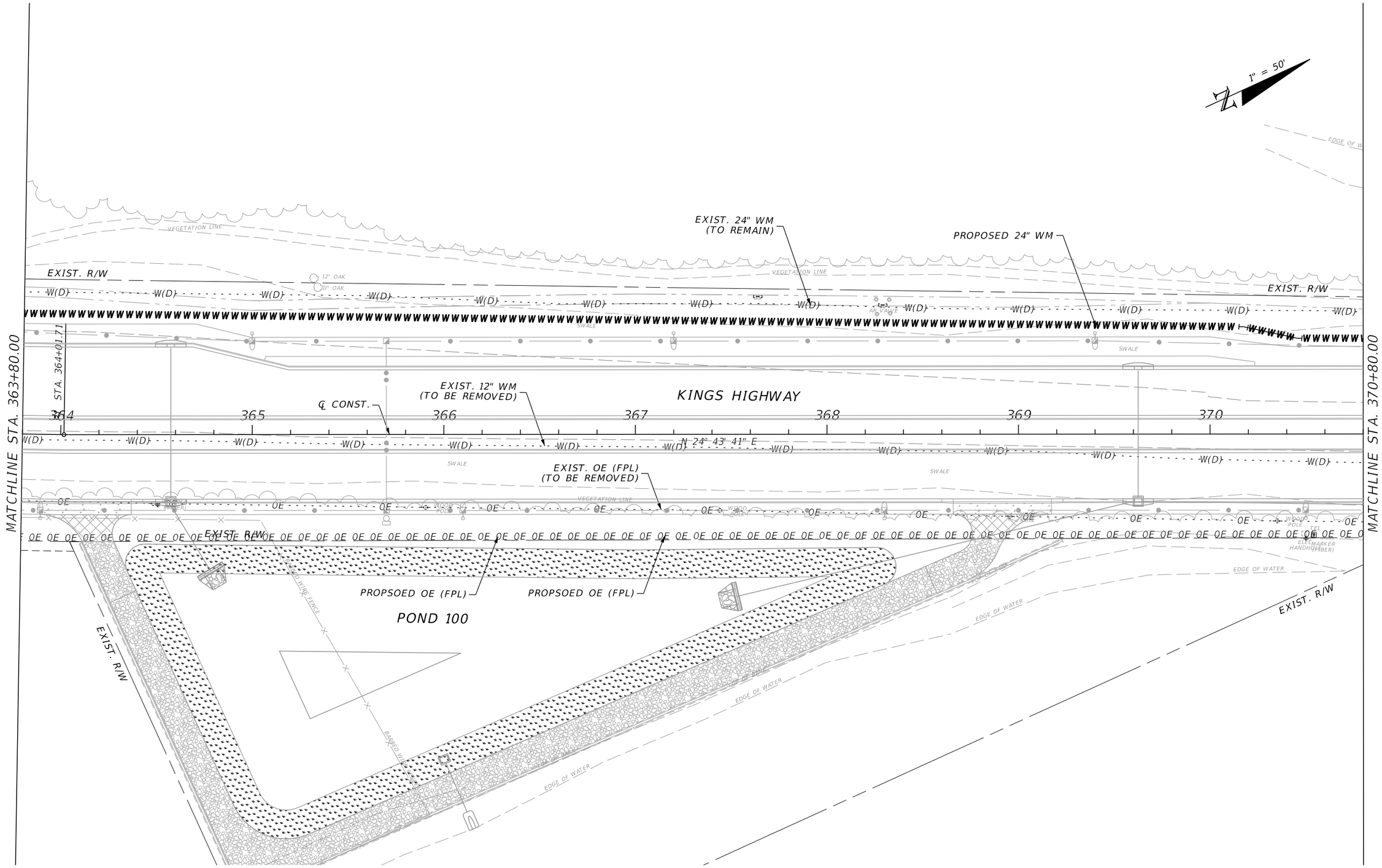
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO.
54



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

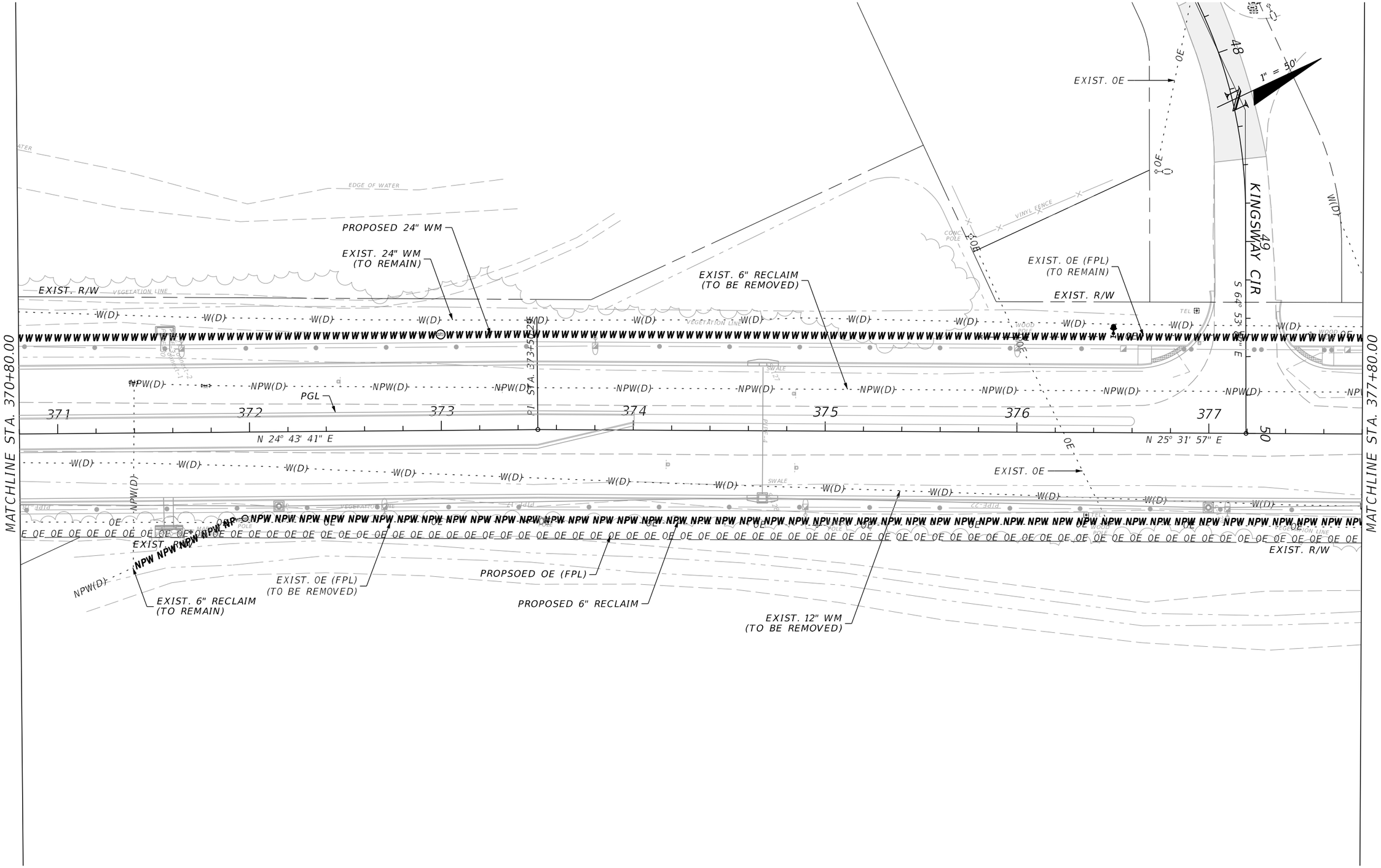
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO.
55



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

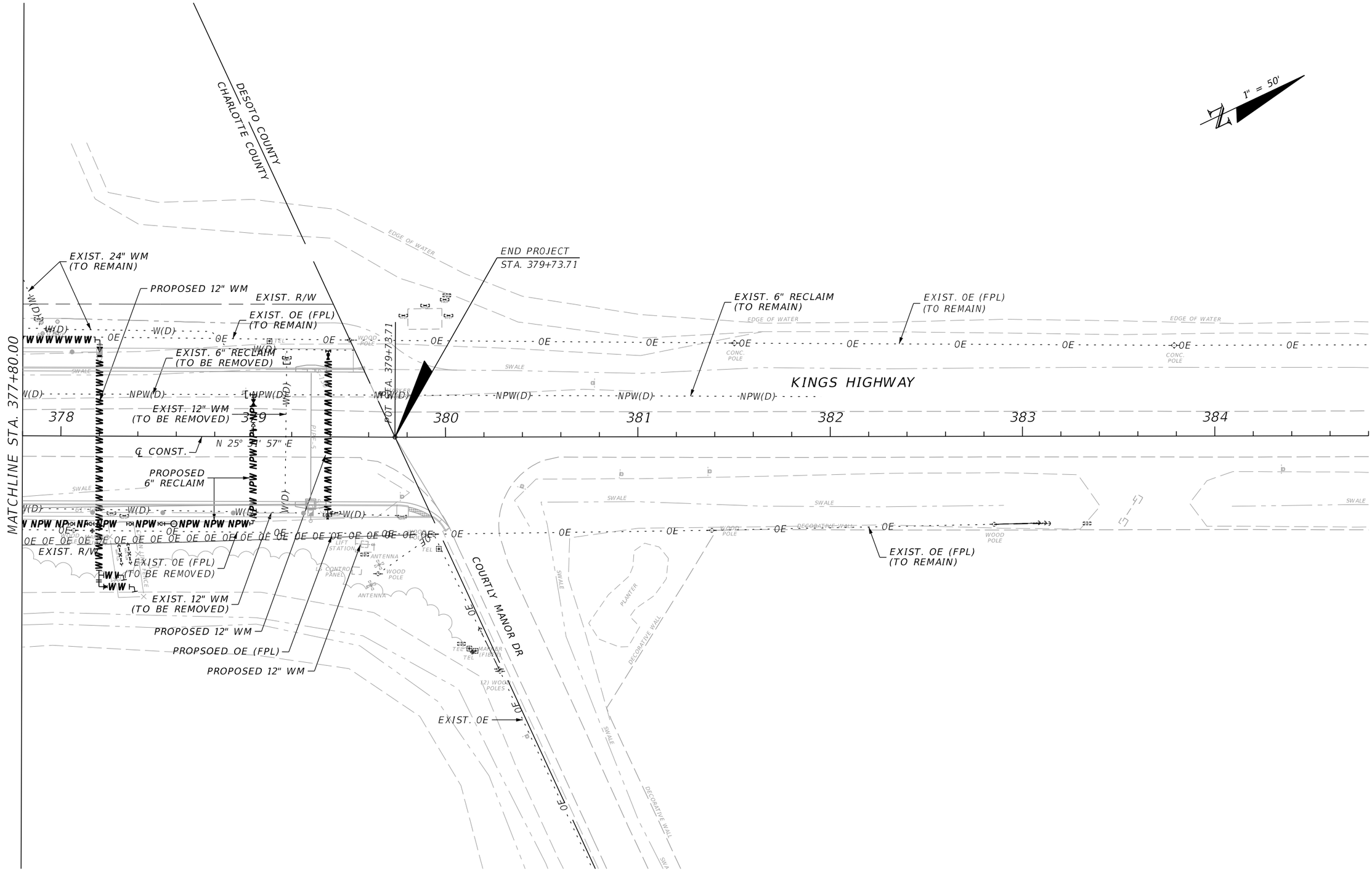
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO.
56



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 57

SUMMARY OF VERIFIED UTILITIES

Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	℄ and/or ℄			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
1	FOUND TOP CTR 6" WHITE PVC	6"	PVC	345+96.78	105.59	RT.	25.3'	20.68'	PICTURE 7430
2	FOUND TOP CTR 6" WHITE PVC	6"	PVC	345+96.14	98.71	RT.	25.3'	21.07'	
3	FOUND TOP CTR 8" BLUE PVC	8"	PVC	345+96.15	105.79	RT.	25.7'	21.58'	PICTURE 7430
4	FOUND TOP CTR 8" BLUE PVC	8"	PVC	346+05.18	105.65	RT.	25.7'	21.54'	
5	FOUND TOP CTR 24" BLUE PVC	24"	PVC	348+08.22	79.29	LT.	24.2'	20.53'	PICTURE 7434
6	FOUND TOP CTR 24" BLUE PVC	24"	PVC	348+08.74	87.80	LT.	24.2'	20.46'	
7	FOUND TOP CTR 12" 90 BEND	12"		362+29.27	4.48	RT.	24.7'	22.09'	PICTURE 7437
8	FOUND TOP CTR 12" WHITE PVC	12"	PVC	362+35.50	4.62	RT.	24.7'	21.78'	
9	FOUND TOP CTR 12" WHITE PVC	12"	PVC	362+29.22	0.82	RT.	24.7'	22.38'	
10	FOUND TOP CTR 12" WHITE PVC	12"	PVC	371+54.28	16.16	RT.	25.3'	19.96'	PICTURE 7442
11	FOUND TOP CTR 12" WHITE PVC	12"	PVC	371+64.80	16.78	RT.	25.3'	19.79'	
12	FOUND TOP CTR 12X10" TEE DIP	12"x10"	DIP	371+56.74	16.24	RT.	23.5'	20.49'	PICTURE 7446
13	FOUND TOP CTR 10" DIP	10"	DIP	371+55.19	35.19	RT.	23.8'	20.67'	
14	FOUND TOP CTR 12" WHITE PVC	12"	PVC	378+25.68	38.29	RT.	23.5'	20.48'	
15	FOUND TOP CTR 12" WHITE PVC	12"	PVC	378+26.35	42.19	RT.	23.5'	20.48'	
16	FOUND TOP CTR 12" WHITE PVC	12"	PVC	378+20.23	39.60	RT.	23.7'	20.54'	PICTURE 7449
17	FOUND TOP CTR 12" WHITE PVC	12"	PVC	378+31.51	38.37	RT.	23.5'	20.49'	
18	FOUND TOP CTR 24X12" TEE DIP	24"x12"	DIP	378+98.09	39.10	RT.	23.8'	20.67'	PICTURE 7453
19	FOUND TOP CTR 12" WHITE PVC	12"	PVC	379+06.92	39.13	RT.	23.8'	20.90'	
20	FOUND TOP CTR 24" BLK HDPE	24"	HDPE	379+04.35	17.94	LT.	24.2'	19.53'	
21	FOUND TOP CTR 24" BLK HDPE	24"	HDPE	378+93.26	18.05	LT.	24.2'	19.47'	
22	FOUND TOP CTR 4" BLK HDPE	4"	HDPE	379+17.15	44.86	LT.	24.2'	19.56'	PICTURE 7455
23	FOUND TOP CTR 4" BLK HDPE	4"	HDPE	379+17.67	39.32	LT.	24.2'	18.95'	
24	FOUND TOP CTR 24" CONC CASING	24"	CONCRETE	379+12.78	44.58	LT.	24.2'	19.53'	
25	FOUND TOP CTR 24" CONC CASING	24"	CONCRETE	379+21.97	44.72	LT.	24.2'	19.47'	PICTURE 7442
26	FOUND TOP CTR 6" WHITE PVC	6"	PVC	379+24.97	35.43	LT.	22.8'	19.52'	
27	FOUND TOP CTR 6" WHITE PVC	6"	PVC	379+15.22	35.57	LT.	22.8'	19.82'	PICTURE 7451

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SUMMARY OF VERIFIED UTILITIES

SHEET NO. 58

LOMSKI ENGINEERING & TESTING, INC.

CROSS SECTION OF SOIL SURVEY

REPORT OF TESTS

KINGS HIGHWAY

FROM I-75 TO DESOTO COUNTY LINE

PORT CHARLOTTE, CHARLOTTE COUNTY, FLORIDA

STRATUM NO.	MAX LBR VALUE	% PASS 10 MESH	% PASS 40 MESH	% PASS 60 MESH	% PASS 100 MESH	% PASS 200 MESH	% ORGANIC CONTENT	LIQUID LIMIT	PLASTICITY INDEX	NO. LBR TESTS	NO. GRAD. TESTS	NO. % FINES TESTS	NO. ORGANIC CONTENT TESTS	NO. LL-PI TESTS	AASHTO CLASSIFICATION	MATERIAL DESCRIPTION
1	25-41	93.1-100	65.8-87.4	50.2-62.1	20.6-33.9	4.3-12.8	0.8-2.2	NP	NP	4	6	6	6	6	A-3 / A-2-4	Light Brown to Dark Brown, fine sand, trace silts
2	-	90.5-98.8	65.5-80.3	35.5-57.3	22.1-33.2	5.9-7.0	0.7-1.8	NP	NP	-	4	4	4	4	A-3	Light Gray to Gray, fine sand
3	-	85.1-95.1	68.9-82.1	48.0-55.9	18.9-22.7	8.7-12.1	1.1-1.9	NP	NP	-	4	4	4	4	A-3 / A-2-4	Tan to Light Brown, fine sand, trace silts
4	-	96.2	77.2	50.6	31.7	6.1	0.9	NP	NP	-	1	1	1	1	A-3	Oramgish Brown to Gray, fine sand

NOTES:

1. SOIL BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY STRATUM CONNECTING LINES ARE SHOWN FOR ESTIMATING EARTHWORK ONLY. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE FDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION. FOR FURTHER DETAILS SEE SECTION 120-3 OF THE FDOT STANDARD SPECIFICATIONS.
2. WATER TABLE IS SHOWN AS ▽ WHERE ENCOUNTERED AT THE TIME OF THE SURVEY.
3. IF ENCOUNTERED, REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURING WITHIN THE ROAD SHALL BE ACCOMPLISHED IN ACCORDANCE WITH INDEX NO. 500. THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDEX NO. 505 OF FDOT ROADWAY DESIGN STANDARDS
4. SOIL ANALYSIS INCLUDES DATA FROM ROADWAY BORINGS ONLY
5. SOIL PARAMETER NOT TESTED DENOTED AS "-" ABOVE.
6. "NP" DENOTES NON-PLASTIC MATERIAL.
7. STRATUM NOS. 1, 2, 3, 4, AND 6, SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH INDEX 505.
8. STRATUM NO. 5 SHALL BE TREATED AS PLASTIC (P) IN ACCORDANCE WITH FDOT INDEX 505.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LET LOMSKI Engineering & Testing
17210 Toledo Blade Boulevard
Port Charlotte, FL, 33954
Tel. (941) 979-5744
Fax. (941) 979-5748
www.let-fl.com
EDWARD P. LOMSKI, Jr. P.E.
P.E. NO. 62507

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

ROADWAY SOIL SURVEY

SHEET NO.
G-1

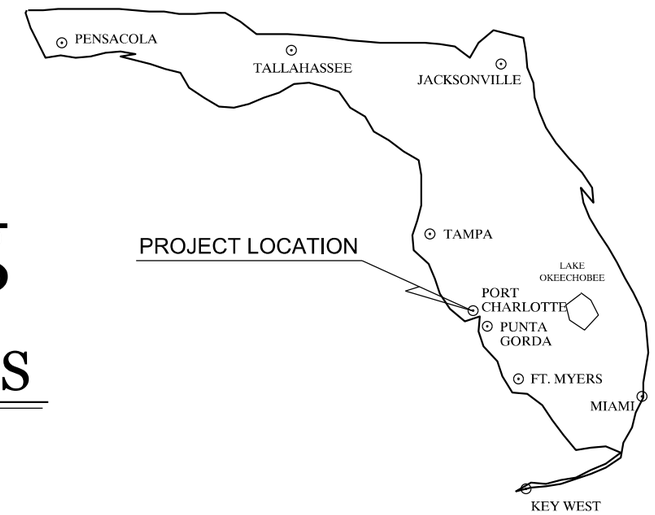
CHARLOTTE COUNTY PUBLIC WORKS
ENGINEERING DIVISION

PLANS OF PROPOSED

Kings Highway Widening

SIGNING AND PAVEMENT MARKING PLANS

Sandhill Blvd. to Courtly Manor Dr.



SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3	GENERAL NOTES
S-4 - S-9	PLAN SHEETS
S-10	GUIDE SIGN WORKSHEET

STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 2025-26, AND SUPPLEMENTS THERETO AS NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.

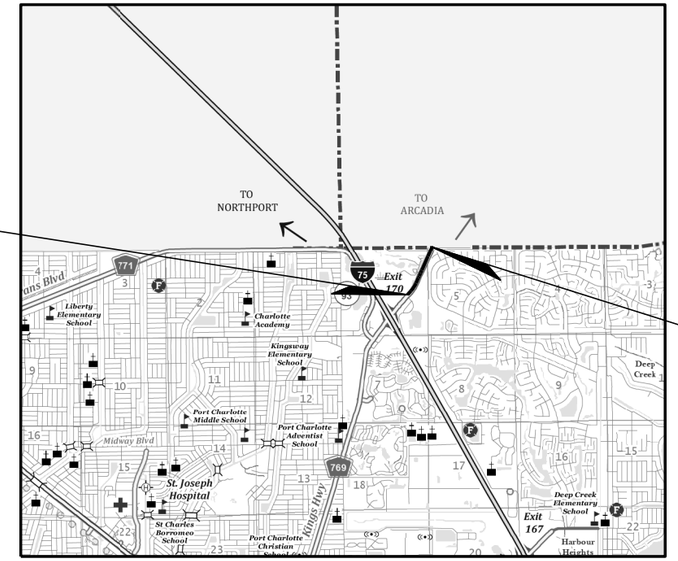
CHARLOTTE COUNTY
BOARD OF COUNTY COMMISSIONERS

DISTRICT 1 - KEN DOHERTY
DISTRICT 2 - CHRISTOPHER CONSTANCE
DISTRICT 3 - BILL TRUEX
DISTRICT 4 - STEPHEN R. DEUTSCH
DISTRICT 5 - JOE TISEO

DIRECTOR OF PUBLIC WORKS - JOHN ELIAS
COUNTY ENGINEER - JOANNE VERNON, P.E.

CHARLOTTE COUNTY
PUBLIC WORKS
ENGINEERING
410 TAYLOR STREET, UNIT 104
PUNTA GORDA, FLORIDA 33950
(941) 575-3600

PROJECT LIMIT
SANDHILL BLVD
(Begin)



PROJECT LIMIT
COURTLY MANOR DR
(End)

SCALE

CHARLOTTE CO. SEC 5 & 6 - TWN. 40 - RNG 23

LOCATION MAP

48 HOURS BEFORE DIGGING
" CALL SUNSHINE "
1-800-432-4770

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.

JOHNSON ENGINEERING — An Apex Company —
Johnson Engineering, LLC
17833 Murdock Circle
Port Charlotte, Florida 33948
Certificate of Authorizaton No. 642

FINAL SUBMITTAL
AUGUST 2025

ENGINEERING CERTIFICATION

I HEREBY CERTIFY THAT THE DESIGN OF THIS PROJECT UNDER MY DIRECTION COMPLIES WITH THE CURRENT MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS AS ADOPTED BY THE F.D.O.T. PURSUANT TO SUBSECTION 336.045 OF THE FLORIDA STATUTES.

DATE

RYAN K. BELL, P.E. NO. 60010

PROJ. NO. 20236025-000
SHEET S-1 OF S-10
DATE 8/6/2025

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS S-4 PLAN	S-4 FINAL	S-5 PLAN	S-5 FINAL	S-6 PLAN	S-6 FINAL	S-7 PLAN	S-7 FINAL	S-8 PLAN	S-8 FINAL	S-9 PLAN	S-9 FINAL	PLAN	FINAL	PLAN	FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
700-1-111	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF	EA					6				1		1								8	
700-1-500	SINGLE COLUMN GROUND SIGN ASSEMBLY, RELOCATE	EA	2		3						2		1								8	
700-1-600	SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	2		3		3				4		1								13	
700-2-112	MULTI-COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, 12.0-20.0 SF	EA									1										1	
700-3-101	SIGN PANEL, FURNISH & INSTALL GROUND MOUNT, UP TO 12 SF	EA									1										1	
705-10-1	OBJECT MARKER, TYPE 1	EA					2				1										3	
706-1-3	RAISED PAVEMENT MARKERS																					
	RAISED PAVEMENT MARKERS, Y/Y	EA	16								2		36								54	
	RAISED PAVEMENT MARKERS, W/R	EA	62		46		50		27		46		33								264	
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.302		0.314		0.302		0.275		0.291		0.110								1.595	
710-11-102	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 8"	GM											0.061								0.061	
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	353				170				128										651	
710-11-124	PAINTED PAVEMENT MARKING, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	31						31		265		146								473	
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	313				27				22										363	
710-11-130	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 6" (10/30)	GM	0.070		0.270		0.240		0.140		0.110										0.830	
710-11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE	EA							3												3	
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS (LEFT)	EA	4		1		3				3										11	
	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS (RIGHT)	EA	4		2		2		1				6								15	
	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS (MERGE)	EA							3												3	
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.135		0.265		0.226		0.265		0.240		0.139								1.270	
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF									18		99								117	
710-11-290	PAVEMENT MARKING, STANDARD, YELLOW, ISLAND NOSE	SF	4				12				8										25	

QUANTITIES SHOWN HEREIN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT NECESSARILY COINCIDE WITH THE BID ITEMS. CONTRACTOR TO VERIFY QUANTITIES AND BID THOSE ITEMS AND QUANTITIES SHOWN ON THE BID SHEET.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

TABULATION OF QUANTITIES

SHEET NO. S-2

SIGNING AND PAVEMENT MARKING GENERAL NOTES

1. THE PERMANENT REMOVAL OF SIGNS WITHIN THE LIMITS OF THIS PROJECT IS NOT REQUIRED IF THEY ARE NOT SHOWN IN THESE PLANS.

2. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OR HER EXPENSE.

3. THE CONTRACTOR SHALL REMOVE ALL EXISTING STRIPING AND CONFLICTING PAVEMENT MESSAGES IN ACCORDANCE WITH A CHARLOTTE COUNTY ACCEPTABLE METHOD.

4. PERMANENT REFLECTIVE PAVEMENT MARKERS AS REQUIRED FOR MAINLINE EDGE, CENTER, AND LANE LINES SHALL BE PLACED WITHIN 72 HOURS OF COMPLETION OF THE MAINLINE SURFACE COURSE AT NO ADDITIONAL COST. OTHER LOCATIONS FOR RPM'S PLACEMENT MAY BE DESIGNATED BY THE ENGINEER.

5. ALL SIGN POSTS WITHIN CHARLOTTE COUNTY RIGHT-OF-WAY WHICH ARE EMBEDDED IN ASPHALT OR CONCRETE (MEDIANS/ ISLANDS) SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY SPECIFICATIONS.

6. THE CONTRACTOR SHALL USE W-SHAPE STEEL POSTS FOR MULTI-POST SIGNS.

7. U-CHANNEL OR FLANGED CHANNEL POSTS ARE NOT AN OPTION AND SHALL NOT BE USED AS A SUPPORT STRUCTURE FOR THE INSTALLATION OF MULTI-POST GROUND SIGNS.

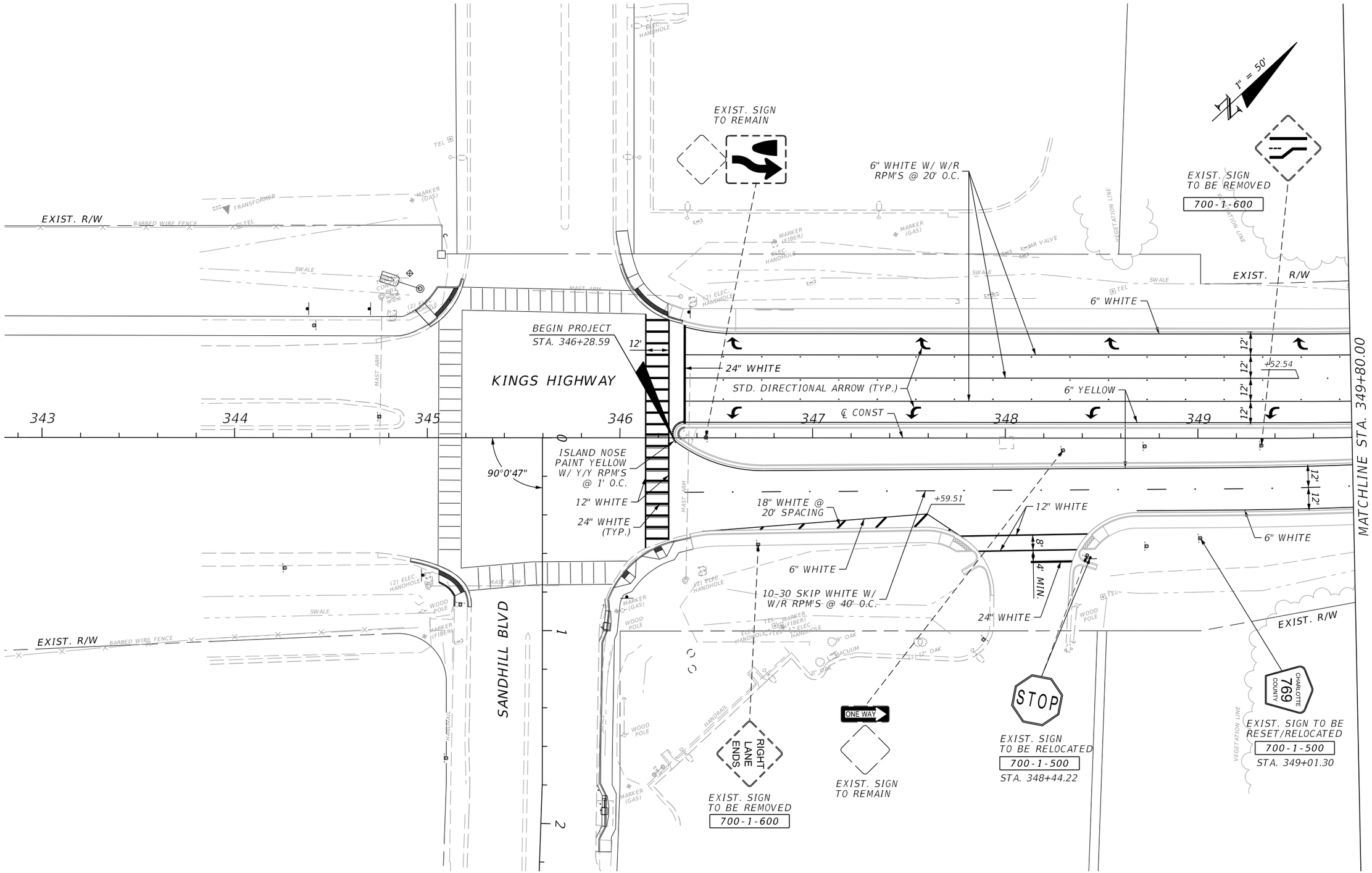
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL SIGNS THAT ARE TO BE PERMANENTLY REMOVED IN THIS PROJECT.

9. ALL SIGN POST IN THE COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CHARLOTTE COUNTY SIGNING AND MARKING SPECIFICATIONS.

10. PAYMENT FOR TEMPORARY STRIPING TO BE INHERENT TO PERMANENT PAINT PAY ITEM.

11. ALL TEMPORARY PAVEMENT STRIPES AND MARKINGS ARE TO BE COMPLETELY REMOVED UPON THE COMPLETION OF THAT PORTION OF WORK REQUIRING THE TEMPORARY MARKINGS. ANY TEMPORARY MARKINGS OUTSIDE THE LIMITS OF CONSTRUCTION MUST BE REMOVED WITHOUT DAMAGE TO THE EXISTING SURFACE. SHOULD THE REMOVAL PROCESS DAMAGE THE EXISTING ASPHALT SURFACE OR IF THE MARKINGS CANNOT BE REMOVED WITHOUT DAMAGE, THE CONTRACTOR SHALL MILL AND RESURFACE THAT PORTION OF THE ROADWAY AT NO ADDITIONAL COST TO THE COUNTY.

12. THE CONTRACTOR SHALL COMPLETE CORRECTIVE WORK, BY HYDRO-BLASTING TO OBLITERATE EXISTING STRIPING WITHOUT DAMAGING THE FINAL SURFACE. SHOULD DAMAGE RESULT OF THESE ACTIONS, THE AREA IS TO BE MILLED TO A DEPTH OF AT LEAST 1-½""AND RESURFACED AT NO ADDITIONAL COST TO THE COUNTY. SHOULD ANY STRIPES OR PAVEMENT MESSAGE BECOME WORN, COVERED IN TACK, OR OTHERWISE BECOME IN NEED OR REFRESHING, IN THE OPINION OF THE COUNTY, THE CONTRACTOR SHALL REPAINT THE IDENTIFIED STRIPE AND OR MESSAGE AT NO ADDITIONAL EXPENSE TO THE COUNTY.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

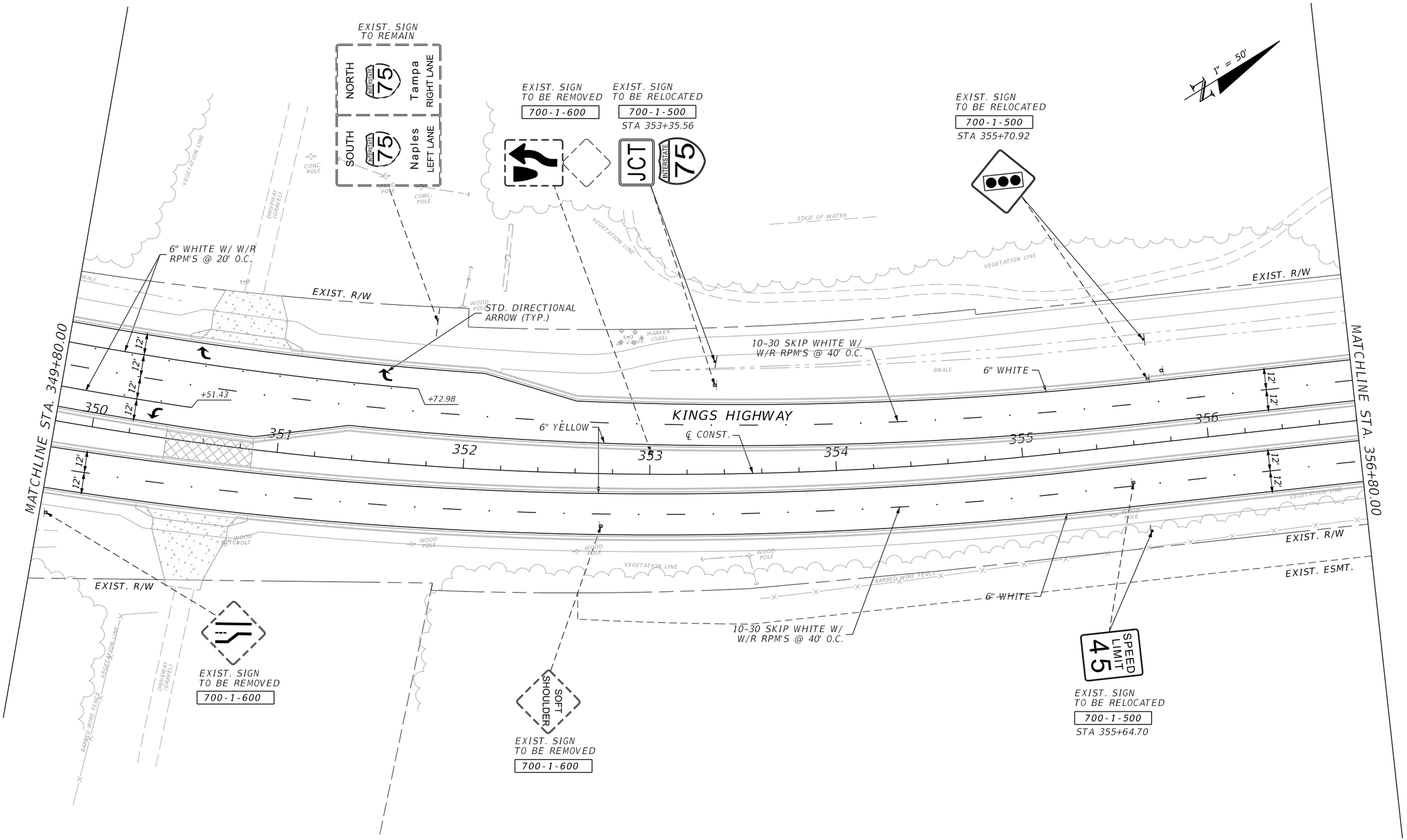
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SIGNING & PAVEMENT MARKINGS PLANS

SHEET NO.
S-4



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

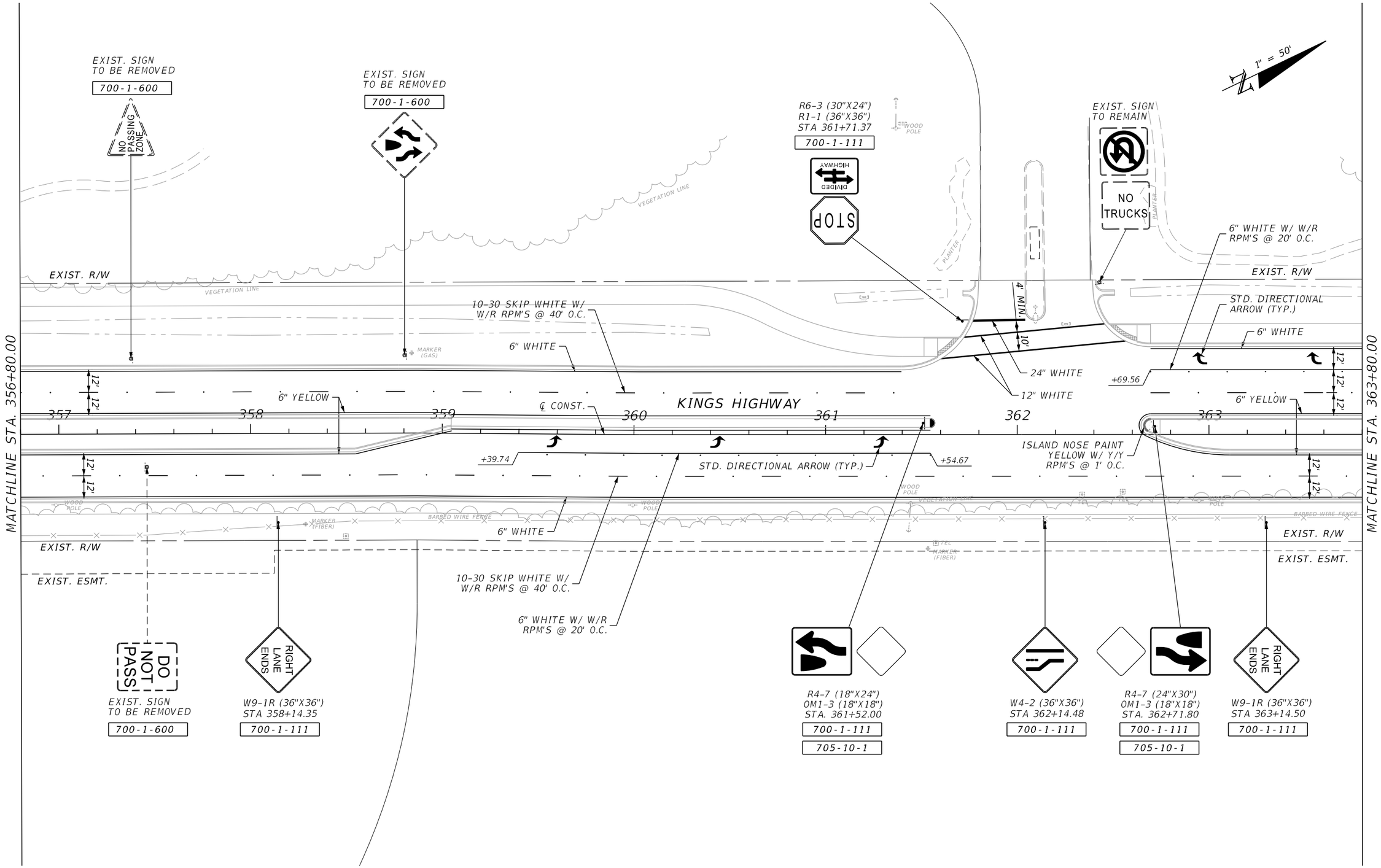
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SIGNING & PAVEMENT MARKINGS PLANS

SHEET NO.
S-5



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

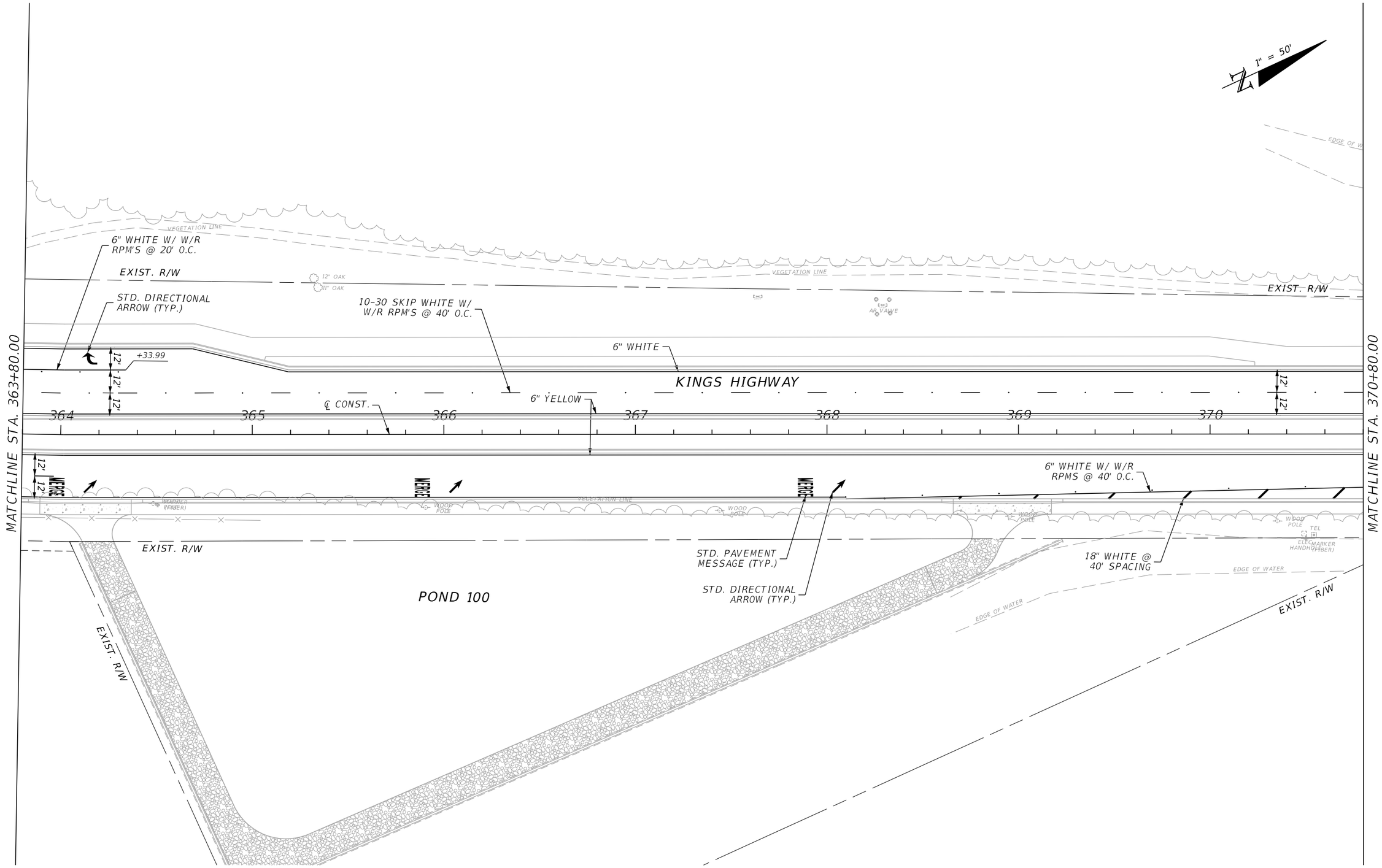
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SIGNING & PAVEMENT MARKINGS PLANS

SHEET NO.
S-6



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

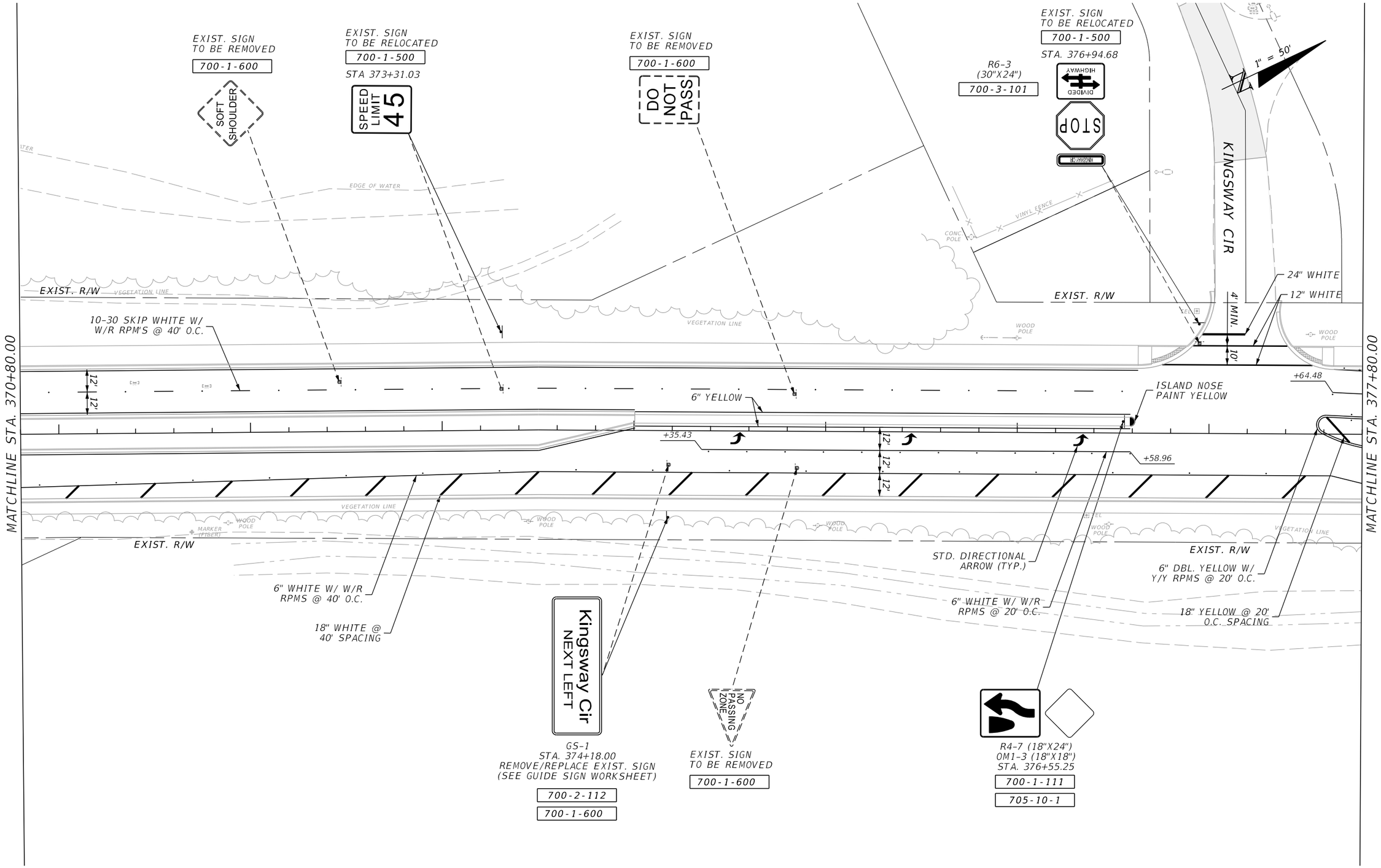
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SIGNING & PAVEMENT MARKINGS PLANS

SHEET NO.
S-7



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

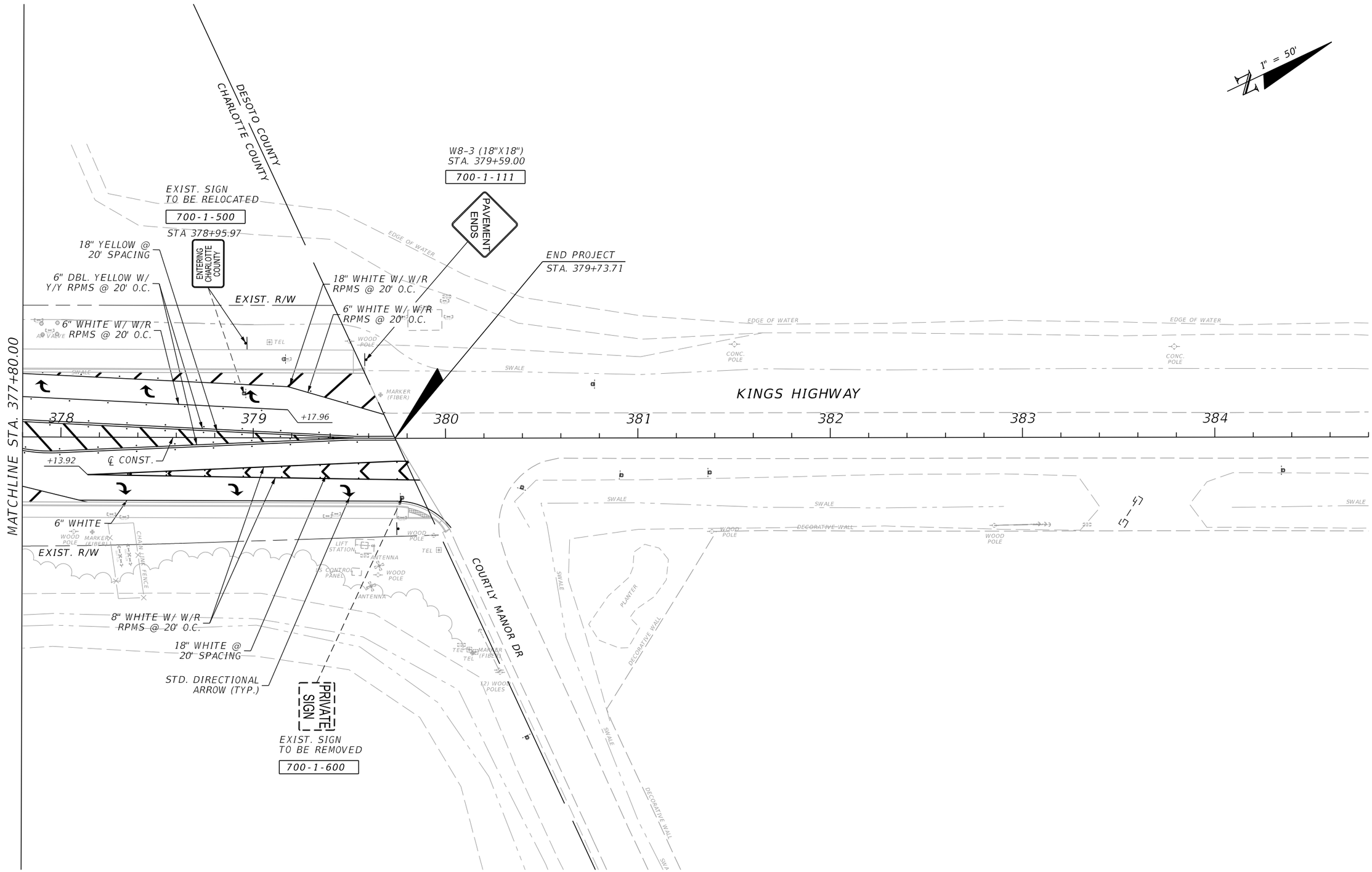
JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SIGNING & PAVEMENT MARKINGS PLANS

SHEET NO.
S-8



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

SIGNING & PAVEMENT MARKINGS PLANS

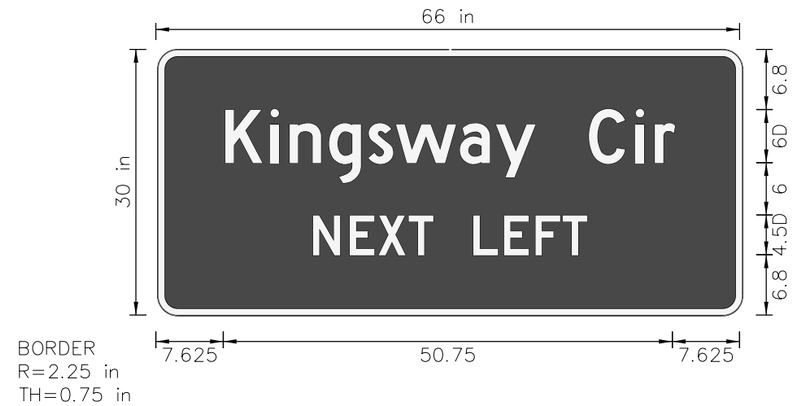
SHEET NO.
S-9

SIGN NAME	GS-1	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			374+18.00
WIDTH	5.5'	WIDTH	0.06'		
HEIGHT	2.5'	RADII	0.19'		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES		FIXTURE SPACING		WATT	
PHOTOMETRIC CURVE				VOLTAGE	



| | | | | |

CCU PROJECT NUMBER
CCU#23-0002

CHARLOTTE COUNTY UTILITIES
KINGS HIGHWAY INFRASTRUCTURE UPGRADES

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

LOCATION MAP
SECTIONS 6, TOWNSHIP 40S, RANGE 23E

CHARLOTTE COUNTY
FLORIDA

INDEX OF DRAWINGS

No.	DESCRIPTION
K-1	KEY SHEEET
K-2	KEY MAP
K-3	UTILITY SEQUENCE OF CONSTRUCTION NOTES
GN-1 - GN-5	CCU GENERAL NOTES
GD-1 - GD-5	CCU GENERAL DETAILS
D-1 - D-4	CCU STANDARD DETAILS
U-1 - U-6	WATER MAIN PLAN AND PROFILES
U-7 - U-9	FORCE MAIN PLAN AND PROFILES
U-10 - U-11	RECLAIM MAIN PLAN AND PROFILES
U-12 - U-15	ROAD CROSSING UTILITY PLAN & PROFILES
U-16 - U-31	CROSS SECTIONS

THE ABOVE OR BELOW REGISTERED ENGINEER SHALL BE RESPONSIBLE FOR THE INDEX OF SHEETS SHOWN ON THIS COVER SHEET IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

KREG E. MAHEU, STATE OF FLORIDA PROFESSIONAL ENGINEER, LICENSE NO. 45766. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY KREG E. MAHEU, P.E. ON THE DATE INDICATED. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE DIGITAL SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

"CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CHARLOTTE COUNTY UTILITIES STANDARDS AND SPECIFICATIONS. PLANS ARE IN ACCORDANCE WITH CCU MINIMUM DRAWING REQUIREMENTS DATED NOVEMBER 01, 2011. STATE PLANE COORDINATES WILL BE SUPPLIED FOR THE RECORD DRAWINGS."

COUNTY COMMISSIONERS:

KEN DOHERTY	DISTRICT 1
CHRISTOPHER CONSTANCE	DISTRICT 2
BILL TRUEX	DISTRICT 3
STEPHEN R. DEUTSCH	DISTRICT 4
JOE TISEO	DISTRICT 5

BID SET
JULY 2025

PREPARED FOR:

CHARLOTTE COUNTY UTILITIES
3100 LOVELAND BOULEVARD
PORT CHARLOTTE, FLORIDA 33950
(941) 764-4300

ENGINEER:

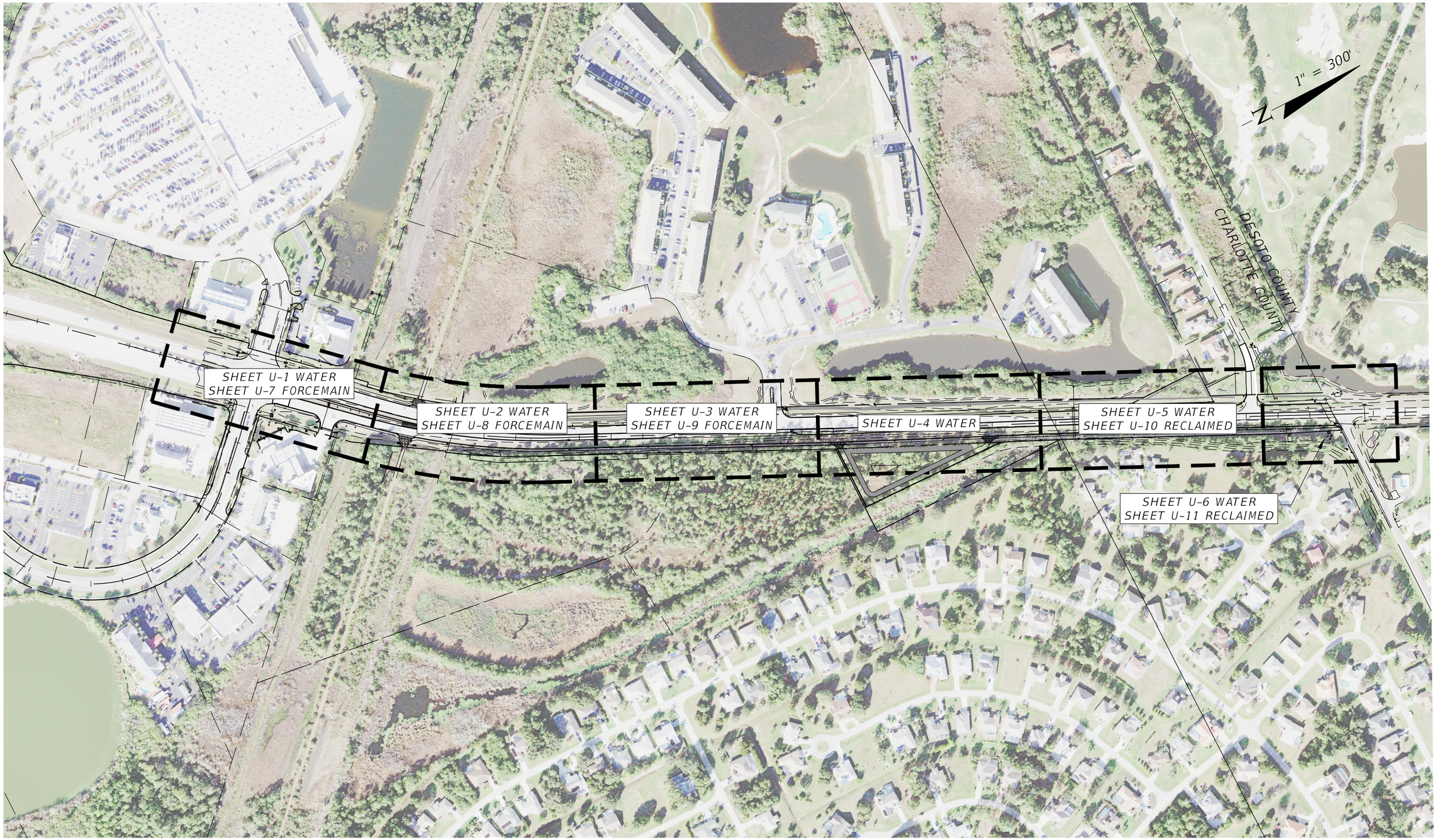
DMK ASSOCIATES
405 COMMERCIAL COURT, SUITE E
VENICE, FLORIDA 34292
(941) 412-1293

July, 2025
DMK PROJECT No. 22-0310

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. NOTE THAT THESE PLANS ARE SCALED FOR FULL SIZE (11"x17") SHEETS: 1"=50', UNLESS OTHERWISE SPECIFIED

DMK ASSOCIATES
ENGINEERING, PLANNING & DESIGN

ENGINEER OF RECORD
KREG E. MAHEU, P.E.
STATE OF FLORIDA No. 45766



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

KEY MAP

SHEET NO.
K-2

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED UNDER RULE 61G15-23.004, F.A.C.

7/10/2025 8:03:10 AM
F:\Projects\2022\22-0310 KingsHwy\Dwg\20-0310_CCU-KEY.dwg

7/10/2025 8:03:13 AM

KINGS HIGHWAY ROADWAY IMPROVEMENT – UTILITY RELOCATION SEQUENCE:

CHARLOTTE COUNTY UTILITIES (CCU) WISH TO UPGRADE AND REPLACE THEIR EXISTING FACILITIES AS PART OF THE ROADWAY CONSTRUCTION PROJECT. THIS WILL REQUIRE MAINTAINING OPERATION OF THE EXISTING FACILITIES UNTIL THE REPLACEMENTS ARE CONSTRUCTED AND READY FOR SERVICE. BECAUSE THE EXISTING KINGS HIGHWAY RIGHT OF WAY IS FILLED WITH UTILITIES ON THE NORTHWEST SIDE OF THE ROADWAY, UTILITIES WILL NEED TO BE MOVED TO THE SOUTHEAST EDGE OF THE ROW TO MAKE ROOM FOR THE REPLACEMENTS.

THE FOLLOWING IS THE ENGINEER'S PROPOSED SEQUENCE OF CONSTRUCTION:

1. CONSTRUCT 6-INCH FORCE MAIN RELOCATION.
   a. CONSTRUCT PROPOSED FORCE MAIN FROM SANDHILL BLVD (Sta. 346+07.37) TO NEWPORT CONDO CONNECTION (Sta. 360+60.00) ALONG SOUTHEAST EDGE OF ROW.
   b. AFTER COMPLETION, TESTING AND CLEARANCE CONNECT TO EXISTING FORCE MAIN AT KINGS HIGHWAY/SANDHILL AND PLACE FORCE MAIN INTO SERVICE.
   c. MAKE THE CONNECTION AT NEWPORT CONDOS AT Sta. 360+60.00.
   d. CAP AND REMOVE EXISTING FORCE MAIN BETWEEN Sta. 346+07.37 AND Sta. 362+56.00 ON NORTHWEST ROW
2. CONSTRUCT 12-INCH WATER MAIN RELOCATION.
   a. CLOSE AND PLUG THE VALVE IN THE 12-INCH WATER MAIN TOWARD SOUTH AT Sta. 362+30.00.
   b. DISCONNECT AND CAP THE EXISTING CCU 12-INCH WATER MAIN AT Sta. 347+97.00
   c. DEMOLISH AND REMOVE THE EXISTING 12-INCH WATER MAIN BETWEEN Sta. 347+97.00 AND 362+30.00. WATER WILL BE SUPPLIED FROM THE EXISTING 12-INCH WATER MAIN AND PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY (PRMRWSA) METER AT THE NORTH COUNTY LINE.
   d. CONSTRUCT PROPOSED WATER MAIN BETWEEN Sta. 347+00.00 AND THE 12x10 TEE AND 90 BEND AT Sta. 378+20.00, OFFSET 78.32 (Rt). ALSO INSTALL A CAP AT THE NEWPORT CONNECTION Sta. 362+30.00 AND, A CAPPED STUB OUT Sta. 363+00.00, OFFSET 52.00 (Rt)
   e. TEST, BAC-T AND CLEAR THE PROPOSED 12-INCH WATER MAIN BETWEEN Sta. 347+00.00 AND THE 12x10 TEE AT Sta. 378+20.00.
   f. DISCONNECT NEWPORT CONDOS FROM EXISTING 12-INCH WATER MAIN TO THE NORTH AND INSTALL THE PROPOSED CONNECTION TO THE NEW 12-INCH WATER MAIN AT Sta. 362+30.00.
   g. DISCONNECT EASTPORT CONNECTIONS FROM EXISTING 12-INCH WATER MAIN AND CONNECT TO THE PROPOSED 12-INCH WATER MAIN AT 378+20.00, OFFSET 78.32 (Rt) AFTER CLEARANCE.
   h. CONSTRUCT 12-INCH WATER MAIN CONNECTOR AT Sta. 379+40.00, TEST, BAC-T AND CLEAR FOR CONNECTION TO PRMRWSA METER.
   i. DEMOLISH AND REMOVE EXISTING 12-INCH WATER MAIN BETWEEN Sta. 362+00.00 AND Sta. 379+40.00, INCLUDING THE OLD DEEP CREEK METER PIPING AND ABOVE GROUND APPURTENANCES.
3. CONSTRUCT 6-INCH RECLAIM WATER MAIN (RCLM) RELOCATION.
   a. CONSTRUCT 6-INCH RCLM FROM TIE IN POINT AT Sta. 371+40.00, OFFSET 70.65 (Rt) TO TIE IN POINT AT Sta. 379+00.00, OFFSET 21.92 (Lt)
   b. PRESSURE TEST THE LINE.
   c. CONSTRUCT TIE IN CONNECTIONS AT Sta. 371+40.00 AND Sta. 379+00.00
   d. REMOVE OLD RECLAIM WATER PIPING BETWEEN Sta. 371+40.00 AND Sta. 379+00.00.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED UNDER RULE 61G15-23.004, F.A.C.

F:\Projects\2022\22-0310 KingsHwy\Dwg\20-0310_CCU-KEY.dwg

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

UTILITY SEQUENCE OF CONSTRUCTION NOTES

SHEET NO.
K-3

4/18/2013 9:24:15 AM

GENERAL NOTES:

1. ELEVATION SHOWN HEREIN REFERENCE NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 88).
2. CONTRACTOR SHALL NOTIFY PROJECT MANAGER IMMEDIATELY OF ANY AND ALL FIELD CONDITION(S) THAT WILL PREVENT THE CONSTRUCTION OF ANY ELEMENT OF THE PROPOSED PROJECT IN ACCORDANCE WITH THE DESIGN STANDARDS AND APPROVED CONSTRUCTION DOCUMENTS FOR THIS PROJECT. IN ALL INSTANCES, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER PRIOR TO ANY INSTALLATION OF WORK. IF CONTRACTOR ELECTS TO INSTALL ANY WORK WHICH DEVIATES FROM THE APPROVED CONSTRUCTION DOCUMENTS WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER, THEN THE COST OF REMOVAL, REPAIR, REDESIGN AND/OR REPLACEMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS SAID WORK IS ACCEPTED AS AN AS-BUILT DEVIATION BY THE COUNTY OR THE PROJECT MANAGER. IN NO CASE SHALL THE COUNTY OR ENGINEER BE RESPONSIBLE FOR THE COST OF REMOVAL, REPAIR, REDESIGN AND/OR REPLACEMENT OF ANY WORK THAT DEVIATES FROM THE DESIGN STANDARDS AND APPROVED CONSTRUCTION DOCUMENTS FOR THIS PROJECT.
3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES, SHOWN IN PLANS, HAVE BEEN APPROXIMATED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. CALL SUNSHINE STATE ONE CALL FLORIDA, INC. @ (PHONE No. 811), 48 HOURS BEFORE YOU DIG.
4. ALL EARTHWORK AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR DULY APPOINTED REPRESENTATIVE, PRIOR TO FILLING OR CONSTRUCTION.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY, PRIOR TO BIDDING, TO INSPECT THE JOB SITE AND TO BE TOTALLY FAMILIAR WITH THE PLANS AND THEIR INTENT.
6. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD INFORMATION THAT MEET THE CHARLOTTE COUNTY REQUIREMENTS TO THE ENGINEER.
7. CONTRACTOR SHALL MAINTAIN SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED. UNTIL ACCEPTANCE, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINES OF THE TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
9. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING CONSTRUCTION TO CONTROL EROSION AND PREVENT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, STORM DRAINS AND/OR ADJACENT PROPERTIES. SILT SCREENS, AND/OR FILTER FABRIC, OR OTHER STANDARD EROSION CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH F.D.O.T. STANDARDS. EROSION CONTROL DEVICES (E.G. SILT SCREENS, TURBIDITY CURTAINS) SHALL BE INSTALLED AND MAINTAINED IN LOCATIONS INDICATED ON THE CONSTRUCTION PLANS OR ADDITIONALLY AT LOCATIONS WHERE CONSTRUCTION ACTIVITIES OR UNSTABILZED SOILS HAVE THE POTENTIAL TO BE TRANSPORTED INTO AND/OR RESULT IN SEDIMENTATION OR TURBIDITY ENTERING WATERWAYS, WATER BODIES, WETLANDS, OR PRIVATE PROPERTIES.
10. CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH FDOT INDEX SERIES 102 (2023/2024) OR CURRENT EDITION.
11. IT IS THE CONTRACTORS RESPONSIBILITY TO BARRICADE AREAS UNDER CONSTRUCTION PURSUANT TO MAINTENANCE OF TRAFFIC PLANS OR AS OTHERWISE APPROVED FOR USE.
12. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO EXPOSED CONSTRUCTION AREAS TO CONTROL SIGNIFICANT EROSION AND FUGITIVE DUST.
13. ALL CLEARING, GRUBBING AND CONSTRUCTION DEBRIS TO BE REMOVED FROM SITE AND PROPERLY DISPOSED.
14. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ALL AFFECTED UTILITIES WITH THE APPROPRIATE UTILITY COMPANIES.
15. IF UTILITY POLES, GUY WIRES, CATV BOXES, COMMUNICATION SPLICE BOXES, OR OTHER UTILITY OBSTRUCTIONS LOCATED IN THE AREA WHERE UTILITIES ARE TO BE INSTALLED, THEN THE ENGINEER SHALL BE NOTIFIED, IF THEY PRESENT UNUSUAL PROBLEMS. ALL WATER AND SEWER VALVE BOXES, METER BOXES, BACKFLOW PREVENTERS AND AIR RELEASE VALVES ARE TO BE ADJUSTED TO FINISHED GRADE BY THE CONTRACTOR.
16. SOD SHALL BE LAID AT ALL AREAS DISTURBED BY THE WORK.
17. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE SODDED WITHIN 7 CALENDAR DAYS TO PREVENT EROSION
18. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH GRADING SHALL BE 0.2 FEET LESS THAN ELEVATIONS SHOWN TO ALLOW FOR THICKNESS OF SOD.
19. ALL TYPE B (CONCRETE, BROKEN ASPHALT, ROCKS), TYPE C (VEGETATIVE LAND CLEARING DEBRIS), OR TYPE D (REFUSE, PLASTIC, WOOD, METAL, ETC.) FILLS GENERATED BY THE PROJECT SHALL BE DISPOSED OF AT A PERMITTED LANDFILL OR RECYCLE FACILITY. ALL EXCESS TYPE A (CLEAN EARTHEN MATERIAL) SHALL BE HAULED TO A PERMITTED LANDFILL, COUNTY OWNED PROPERTY, OR SITE AUTHORIZED UNDER A BUILDING PERMIT, EARTH MOVING PERMIT, OR CONSTRUCTION PLAN APPROVAL TO RECEIVE FILL.
20. DURING THE PROJECT, ALL CLEARING AND STOCKPILING OF FILLS SHALL BE CONTAINED WITHIN THE CHARLOTTE COUNTY RIGHTS-OF-WAY, OR WITHIN DESIGNATED CONSTRUCTION EASEMENTS. TEMPORARY STOCKPILING OF ANY TYPE A, B, C, OR D FILLS UPON PRIVATE PROPERTIES REQUIRES AUTHORIZATION FROM THE COUNTY IN THE FORM OF AN EARTH MOVING PERMIT OR TEMPORARY CONSTRUCTION EASEMENT.
21. PLEASE NOTE THAT ON PLANS, POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL ADJACENT PROPERTIES AND MAINTAIN ALL HISTORIC OFFSITE FLOW PATTERNS.
22. A TREE PERMIT WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION, NATIVE VEGETATIVE REMOVAL WITHIN THE DRIPLINE OF A TREE, AND/OR TREE REMOVAL.
23. ANY WELLS DISCOVERED DURING EXCAVATION, EARTHMOVING OR CONSTRUCTION MUST BE REPORTED TO THE CHARLOTTE COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH WITHIN 24 HOURS OF DISCOVERY.
24. ALL WELLS ON SITE SHALL BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AREAS FOR STAGING AND STOCKPILING CONSTRUCTION MATERIALS AND WASTE OVERBURDEN INCLUDING APPROPRIATE EROSION AND SEDIMENTATION CONTROL DEVICES AND BEST MANAGEMENT PRACTICES.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER HANDLING AND DISPOSAL OF CONTAMINATED SOILS IN ACCORDANCE WITH ALL STATE AND FEDERAL LAWS.
27. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DEWATERING PERMIT BY SWFWMD (IF REQUIRED) AND SHALL ALLOW 45 DAYS FOR APPROVAL PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL PERMIT REQUIREMENTS RELATED TO DEWATERING. ALL WORK PERFORMED, INCLUDING PERMITTING, WILL BE INCIDENTAL TO THE PAYMENT ITEMS OF STANDARD SPECIFICATIONS, SECTION 120, EXCAVATION, EMBANKMENT AND GRADING.
28. IF A GOPHER TORTOISE (OR ITS EVIDENCE, SUCH AS BURROWS,....) IS OBSERVED DURING CONSTRUCTION, ALL CLEARING AND EARTHMOVING ON-SITE SHALL CEASE. THE CONTRACTOR SHALL CONSULT WITH THE FWC AND/OR US FISH AND WILDLIFE SERVICE REGARDING NECESSARY PROTECTION MEASURES AND PROVIDE EVIDENCE OF SUCH CONSULTATION TO THE COUNTY PRIOR TO RESUMING WORK.

HISTORY CENTER NOTES:

THE FOLLOWING REQUIREMENTS APPLY TO ALL BUILDING CONSTRUCTION OR ALTERATION, OR LAND ALTERATION ACTIVITIES.

1. IF EVIDENCE OF THE EXISTENCE OF CULTURAL RESOURCES IS DISCOVERED OR OBSERVED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITIES AFTER FINAL APPROVAL, ALL WORK SHALL CEASE IN THE AREA OF EFFECT AS DETERMINED BY THE DIRECTOR. THE DEVELOPER, OWNER, CONTRACTOR, OR AGENT THEREOF SHALL NOTIFY THE DIRECTOR OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. EXAMPLES OF SUCH EVIDENCE MAY INCLUDE WHOLE OR FRAGMENTARY STONE TOOLS, SHELL TOOLS, ABORIGINAL OR HISTORIC POTTERY, HISTORIC GLASS, HISTORIC BOTTLES, BONE TOOLS, HISTORIC BUILDING FOUNDATIONS, SHELL MOUNDS, SHELL MIDDENS, OR SAND MOUNDS. THE DIRECTOR SHALL ASSESS THE SIGNIFICANCE OF THE FINDS WITHIN THREE WORKING DAYS OF NOTIFICATION AND TO MITIGATE ANY ADVERSE EFFECTS SO AS TO MINIMIZE DELAYS TO DEVELOPMENT ACTIVITIES.
2. IF ANY HUMAN SKELETAL REMAINS OR ASSOCIATED BURIAL ARTIFACTS ARE DISCOVERED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITY, ALL WORK IN THAT PARTICULAR AREA MUST CEASE, AND THE PERMITTEE MUST IMMEDIATELY NOTIFY THE NEAREST LAW ENFORCEMENT OFFICE AND NOTIFY THE DIRECTOR OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. ACCORDING TO CHAPTER 872, FLORIDA STATUTES, IT IS UNLAWFUL TO DISTURB, VANDALIZE, OR DAMAGE A HUMAN BURIAL.

WATER RESOURCE NOTES:

1. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN (ECP) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFF SITE STORMWATER CONVEYANCES OR RECEIVING WATERS, OR ON SITE WETLANDS AND SURFACE WATERS. BMPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. [THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.]
2. THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(C)1, F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.
3. FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO PUBLIC WORKS (941) 637-9265. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.
4. IF CONTAMINATED SOIL AND/OR GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND PUBLIC WORKS SHALL BE CONTACTED (941) 637-9265.

UTILITY/AGENT OWNER:

COMPANY	CONTACT	TELEPHONE NUMBERS
CENTURYLINK	BILL McCLOUD	(805) 599-1444
CHARLOTTE COUNTY LIGHTING - ELECTRIC	JODY MANSELL	(941) 675-3648
CHARLOTTE COUNTY UTILITIES	BRUCE BULLERT	(941) 764-4509
COMCAST	CHAD EVENER	(941) 356-1564
DESOTO COUNTY UTILITIES	JEANNINE TATUM	(863) 491-7500
FLORIDA POWER & LIGHT COMPANY	JOEL BRAY	(386) 586-6403
PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY	SCOTT CUNNINGHAM	(863) 993-4565
TECO PEOPLES GAS	JOAN DOMMING	(813) 275-3783

ABBREVIATIONS:

NOTE: THE PERIOD MAY OR MAY NOT BE SHOWN IE. ASOP OR A.S.O.P.

@	=	AT
ASOP	=	AS SHOWN ON PLANS
ASTM	=	AMERICAN STD TESTING AND MATERIAL
BFP	=	BACK FLOW PREVENTION DEVICE
BOSI	=	BACK OF SIDEWALK INLET
CA	=	CERTIFICATION
℄	=	CENTERLINE
CO	=	CLEANOUT
CONC	=	CONCRETE
CoNP	=	COUNTY OF NORTH PORT
CR	=	COUNTY ROAD
CY	=	CUBIC YARD
(C)	=	CALCULATED
DBI	=	DITCH BOTTOM INLET
DEPT	=	DEPARTMENT
DHWL	=	DESIGN HIGH WATER LINE
DIA	=	DIAMETER
DR	=	DESIGN RATIO
E	=	EAST
EA	=	EACH
ESM'T	=	EASEMENT
EL	=	ELEVATION
FF	=	FINISHED FLOOR
FDC	=	FIRE DEPARTMENT CONNECTION
FDOT	=	FLORIDA DEPARTMENT OF TRANS
FLA	=	FLORIDA
FS	=	FIRE SERVICE
FT	=	FOOT/FEET
FW	=	FIRE MAIN
GA	=	GAUGE
GB	=	GRADE BREAK
HORIZ	=	HORIZONTAL
HP	=	HIGH POINT
IN	=	INCHES
INSTAL	=	INSTALLATION
INV	=	INVERT
LB	=	LAND SURVEYING BUSINESS
LIC	=	LICENSE
LF	=	LINEAR FOOT
M	=	METER
MAX	=	MAXIMUM
MES	=	MITERED END SECTION
M-EX	=	MATCH EXISTING
MH	=	MANHOLE
MIN	=	MINIMUM
N	=	NORTH
No	=	NUMBER
NWL	=	NORMAL WATER LINE
NTS	=	NOT TO SCALE
O/C	=	ON CENTER
PGL	=	PROFILE GRADE LINE
PREF	=	PREFERRED
PROJ	=	PROJECT
PSI	=	POUNDS PER SQUARE INCH
PVM'T	=	PAVEMENT
R	=	RADIUS
RCP	=	REINFORCED CONCRETE PIPE
REQ'D	=	REQUIRED
R/W	=	RIGHT OF WAY
S	=	SOUTH
SCB	=	SIGNAL CONTROL BOX
SDR	=	SIZE DESIGN RATIO
SF	=	SILT FENCE
SHLDR	=	SHOULDER
SHWT	=	SEASONAL HIGH WATER TABLE
SR	=	STATE ROUTE
STD	=	STANDARD
SQ YD	=	SQUARE YARD
S/W	=	SIDEWALK
TEMP	=	TEMPORARY
TCB	=	TRAFFIC CONTROL BOX
TK	=	THICK
TRANS	=	TRANSPORTATION
TRNS	=	TRANSITION
TRVL	=	TRAVEL
TYP	=	TYPICAL
UNK	=	UNKNOWN
W	=	WEST
W/	=	WITH
WM	=	WATER MAIN
WWF	=	WELDED WIRE FABRIC
VAR	=	VARIES
VERT	=	VERTICAL

SURVEY ABBREVIATIONS AND LEGEND:

ABBREVIATIONS:

A.	=	Arc	(P)	=	Plat Data
Alum .	=	Aluminum	P.C.	=	Point of Curvature
Bldg.	=	Building	P.C.C	=	Point of Compound Curvature
B.M.	=	Bench Mark	P.C.P.	=	Permanent Control Point
(C)	=	Calculated data	P.I.	=	Point of Intersection
C.	=	Chord dimension	P.K.	=	PARKER-KALON
C.B.S.	=	Concrete Block and Stucco	P.O.B.	=	Point of Beginning
C.M	=	Concrete Monument	P.O.C.	=	Point of Commencement
Conc.	=	Concrete	P.O.L.	=	Point on Line
(A)	=	Deed data	P.O.T.	=	Point of Terminus
D.N.R.	=	Department of Natural Resources	P.R.C.	=	Point of Reverse Curvature
D.O.T.	=	Department of Transportation	P.R.M.	=	Permanent Reference Monument
Drain.	=	Drainage	P.T.	=	Point of Tangency
Dsc.	=	Description data	R.	=	Radius
El.	=	Elevation	R/W	=	Right-of-Way
Es'mt	=	Easement	S.F.	=	Square Feet
Fin. Fl.	=	Finished Floor	Sta.	=	Station
Fnd.	=	Found	T.B.M.	=	Temporary Bench Mark
INV.	=	Invert	Typ.	=	Typical
I.P.	=	Iron Pipe	(U)	=	Unrecorded data
I.R.	=	Iron Rod	U.S.G.S.	=	United States Geodetic Survey
L.B.	=	Land Surveying Business	Util.	=	Utility
(M)	=	Measured Data	WTWY	=	Waterway
N.A.V.D.	=	North American Vertical Datum	△	=	Delta
N.G.V.D.	=	National Geodetic Vertical Datum	℄	=	Centerline
O.R.	=	Official Records	⅊	=	Property Line

LEGEND:

Legend symbols are not to scale and are for graphic I.D. only.

- = Found 4"x4"Concrete Monument (number noted if any)
- = Found No. 5 Rebar (I.D. noted if any)
- = Found P.K. Nail and Disc (I.D. noted if any)
- = Spot Elevation
- = Set 4"x4"Concrete Monument with Cap L.B. #3943
- = Set No. 5 Rebar with Cap L.B. #3943
- = Set Mag. Nail and Disc L.B. #3943
- = Utility Box
- = Utility Pole
- = Guy Wire Anchor
- = Water Meter
- = Water Valve
- = Sewer Valve
- = Sewer Service
- = Fire Hydrant
- = Sewer Cleanout
- = Water Service
- = Well/Monitor/Irrigation
- = Sanitary Sewer Manhole
- = Storm Manhole
- = Miscellaneous Manhole
- = Electric Service
- = Electric Hand Hole/Manhole
- = Telephone Riser/Hand Hole
- = Cable TV
- = Mail Box
- = Road Sign
- = Light Pole
- = Street Light Box
- = Ground Light
- = Backflow Preventer
- = Overhead Utility Line
- = Barb Wire or Wire Fence
- = Chain Link Fence
- = Wooden Fence
- —WTR— = Buried Water Line
- —TEL— = Buried Telephone Line
- —SEW— = Buried Sanitary Sewer
- —ELEC— = Buried Electric Line
- —RW— = Buried Reuse Water Line
- —GAS— = Buried Gas Line
- —SF— = Silt Fence

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED UNDER RULE 61G15-23.004, F.A.C.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

GENERAL NOTES, ABBREVIATIONS & LEGENDS

SHEET NO.

GN-1

7/10/2025 8:03:31 AM

GENERAL NOTES:

1. CHARLOTTE COUNTY UTILITIES (CCU) STANDARD SPECIFICATIONS AND STANDARD DETAILS SHALL GOVERN ALL UTILITY WORK. UNDER CERTAIN CIRCUMSTANCES THE STANDARD SPECIFICATIONS AND/OR STANDARD DETAILS MAY BE MODIFIED BY THE SPECIAL PROVISION SECTION OF THE CONTRACT DOCUMENTS IN WHICH CASE THE SPECIAL PROVISIONS SHALL PREVAIL. WHEN A CONFLICT EXISTS AMONG THE REQUIREMENTS OF A REFERENCED MATERIAL OR INSTALLATION STANDARD, THE REQUIREMENTS OF CCU SHALL PREVAIL. WHERE THE REQUIREMENTS OF A STATE OR LOCAL AGENCY HAVING JURISDICTION ARE MORE STRINGENT, THOSE REQUIREMENTS SHALL PREVAIL.

2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED COUNTY AND STATE PERMITS PRIOR TO COMMENCING WORK AND SHALL KEEP ONE COPY OF ALL ISSUED PERMITS AT THE SITE AT ALL TIMES DURING CONSTRUCTION.

3. THE CONTRACTOR SHALL ASSURE COMPLIANCE WITH ANY OSHA, EPA, AND/OR OTHER FEDERAL OR STATE OF FLORIDA RULES, REGULATIONS OR OTHER REQUIREMENTS, AS EACH MAY APPLY.

4. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE ONE CURRENT COPY OF CCU SPECIFICATIONS AND DESIGN DETAILS AND ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING ENGINEERING DRAWINGS, SPECIFICATIONS, SPECIAL PROVISIONS, ETC. NO FIELD CHANGES OR DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE MADE BY THE CONTRACTOR WITHOUT PRIOR CCU WRITTEN APPROVAL .

5. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE. THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE CALL" PRIOR TO START OF CONSTRUCTION. THE EXISTING UTILITIES SHOWN ON THE ENGINEERING DRAWINGS ARE FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL MARK LOCATIONS OF UTILITIES BY PAINTING AND/OR FLAGGING THE UTILITY ALIGNMENT. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION(S) TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS AND ORDINANCES COVERING THE PROTECTION OF SUCH WORK AND THE SAFETY MEASURES TO BE EMPLOYED THEREIN.

6. THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BRING ENGINEERING DRAWING DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCING WORK.

7. THE CONTRACTOR SHALL CONTACT THE APPLICABLE COUNTY DEPARTMENTS AND ALL OTHER UTILITY COMPANIES A MINIMUM OF 48-HOURS PRIOR TO START OF CONSTRUCTION. THE CONSTRUCTION MANAGEMENT OFFICE OF CHARLOTTE COUNTY COMMUNITY DEVELOPMENT (CCCD) CAN BE REACHED AT 941-575-3600 AND CCU AT 941- 764-4515.

8. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY CUSTOMERS 48 HOURS IN ADVANCE IF WATER AND/OR SEWER SERVICE WILL BE INTERRUPTED DURING CONSTRUCTION.

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GN-01
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

9. IF EXISTING VALVES OR FITTINGS ARE NOT RESTRAINED PROPERLY, THE CONTRACTOR SHALL RESTRAIN EXISTING UTILITIES IN ACCORDANCE WITH CCU REQUIREMENTS AS APPROVED BY CCU.

10. THE CONTRACTOR SHALL INSTALL INCIDENTAL FITTINGS REQUIRED TO RESOLVE CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES AS DETERMINED IN THE FIELD UNLESS OTHERWISE SHOWN ON THE PLANS. ALL MATERIALS, EQUIPMENT, AND LABOR TO RESOLVE INCIDENTAL CONFLICTS SHALL BE PAID FOR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS.

11. ALL VALVES SHALL BE INSTALLED OUTSIDE OF PAVEMENTS UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE PLANS OR APPROVED BY CCU.

12. THE CONTRACTOR SHALL INSTALL ALL OPEN TRENCH BURY PIPE IN AN UPRIGHT VERTICAL POSITION SO ALL LETTERING AND/OR STRIPING CAN BE READ FROM ABOVE. DIRECTIONAL BORE HDPE PIPE SHALL MEET THIS REQUIREMENT TO THE EXTENT POSSIBLE.

13. THE CONTRACTOR SHALL PUSH HOME ALL SPIGOT ENDS OF PVC AND/OR DI PIPE INTO BELL ENDS WITHIN 1/2" OF THE MANUFACTURER'S INSERTION MARK. IF PIPE IS CUT, THE CONTRACTOR SHALL REPLACE AN INSERTION MARK FROM NEW END OF PIPE AS SHOWN ON THE ORIGINAL PIPE.

14. ALL STAINLESS STEEL SHALL BE 316 AUSTENITIC, NON-MAGNETIC UNLESS OTHERWISE APPROVED BY CCU.

15. MARKER BALLS AND METALLIC LOCATION TAPE MUST BE INSTALLED IN ACCORDANCE WITH THE CCU STANDARD DETAILS AND CCU STANDARD SPECIFICATIONS.

DUCTILE IRON EXTERNAL PROTECTIVE COATING

ALL EXPOSED DUCTILE IRON UTILITIES SHALL BE PAINTED AS FOLLOWS IN ACCORDANCE WITH CCU FIELD PAINTING SPECIFICATIONS:

TYPE	COLOR DESIGNATION*
POTABLE WATER LINES	BLUE (PANTONE 287)
POTABLE WATER VALVE CAPS	BLUE (PANTONE 287)
FIRE LINES	ANSI SAFETY RED (PANTONE 485)
FIRE LINE VALVE CAPS	ANSI SAFETY RED (PANTONE 485)
WASTE WATER LINES	ANSI SAFETY GREEN (PANTONE 3415)
WASTE WATER VALVE CAPS	ANSI SAFETY GREEN (PANTONE 3415)
RECLAIMED WATER LINES	PURPLE (PANTONE 522C)
RECLAIMED WATER VALVE CAPS	PURPLE (PANTONE 522C)
FIRE HYDRANTS	ANSI SAFETY YELLOW (PANTONE 109)
FIRE HYDRANT VALVE CAPS	ANSI SAFETY YELLOW (PANTONE 109)

**Equivalent colors matching these colors are acceptable. Provide with Shop Drawing submittal direct color comparisons of color numbers available from manufacturer submitted.*

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DATE: 11/01/2011	GENERAL NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GN-02
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GN_2012.dwg

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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU GENERAL NOTES (1)

SHEET NO. GN-2

CONSTRUCTION IN STREETS AND ROAD RIGHT-OF-WAYS

1. OPEN ROAD CUTS REQUIRE PRIOR APPROVAL/PERMIT OF THE COUNTY, STATE, OR OTHER AGENCY HAVING JURISDICTION. CONSTRUCTION WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION (DOT) RIGHT-OF-WAY SHALL CONFORM TO FLORIDA DOT CONSTRUCTION STANDARDS. CHARLOTTE COUNTY COMMUNITY DEVELOPMENT (CCCD) SHALL BE NOTIFIED 48-HOURS IN ADVANCE OF ALL APPROVED OPEN ROAD CUTS WITHIN COUNTY ROADWAYS/RIGHT-OF-WAYS.

2. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC AT THE JOB SITE DURING CONSTRUCTION IN ACCORDANCE WITH THE PERMIT AND SAFETY REQUIREMENTS FOR THE PROJECT. PROPER DETOUR SHALL BE PROVIDED AS NECESSARY.

3. EXCAVATION SHALL BE CONDUCTED IN A MANNER TO CAUSE THE LEAST POSSIBLE INTERRUPTION TO TRAFFIC. WHERE TRAFFIC MUST CROSS EXCAVATIONS, THE CONTRACTOR SHALL PROVIDE SUITABLE BRIDGES AT STREET INTERSECTIONS AND DRIVEWAYS.

4. NOT MORE THAN ONE BLOCK OF EXCAVATION SHALL BE OPEN PER CREW AT ANY ONE TIME, AND THIS DISTANCE SHALL BE REDUCED IF CONSTRUCTION CAUSES EXCESSIVE INTERFERENCE WITH TRAFFIC. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC AND PEDESTRIAN SAFETY AT ALL TIMES. ALL EXCAVATED AND/OR STORED MATERIAL SHALL BE REMOVED FROM THE PAVEMENTS AT THE END OF THE WORK DAY UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT DOCUMENTS.

5. THE CONTRACTOR SHALL CARRY OUT THE WORK SO AS NOT TO DENY UNREASONABLE ACCESS TO PRIVATE PROPERTY. ALL ACCESS SHALL BE RESTORED AT THE END OF THE WORK DAY.

6. ALL UTILITY ACCESS MANHOLES, VALVES, AND FIRE HYDRANTS AND MAIL BOXES SHALL BE ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION.

7. ROAD SURFACE RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH CHARLOTTE COUNTY COMMUNITY DEVELOPMENT (CCCD), FLORIDA DEPARTMENT OF TRANSPORTATION, OR OTHER GOVERNING AGENCY REQUIREMENTS.

8. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS DAMAGED DURING THE PROJECT.

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TRAFFIC REGULATIONS AND MAINTENANCE OF TRAFFIC

1. TRAFFIC CONTROL ON ALL COUNTY AND STATE HIGHWAY RIGHT-OF-WAYS SHALL COMPLY WITH THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND REQUIREMENTS OF THE STATE AND/OR ANY OTHER LOCAL AGENCY HAVING JURISDICTION.

2. WORK AFFECTING TRAFFIC ON ANY COUNTY STREET, ROADWAY, RIGHT-OF-WAY, BIKE PATH, OR SIDEWALK REQUIRES THE PREPARATION AND SUBMITTAL OF MAINTENANCE OF TRAFFIC (MOT) PLAN BY THE CONTRACTOR TO THE COUNTY ENGINEER. THE MOT PLAN SHALL BE APPROVED BY THE COUNTY ENGINEER OR HIS/HER DESIGNEE PRIOR TO THE START OF CONSTRUCTION.

3. WORK AFFECTING TRAFFIC ON ANY STATE ROAD OR HIGHWAY REQUIRES THE PREPARATION AND SUBMITTAL OF A MOT PLAN BY THE CONTRACTOR TO THE FDOT. THE MOT PLAN SHALL BE APPROVED BY THE FDOT PRIOR TO THE START OF CONSTRUCTION.

4. THE CONTRACTOR SHALL BE IN FULL COMPLIANCE WITH THE APPROVED MOT PLAN AT ALL TIMES.

5. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL TRAFFIC CONTROL SIGNS AND DEVICES, BARRICADES, FLASHERS, ETC. IN WORKING CONDITION AT ALL TIMES.

6. ROAD CLOSURE WHETHER TEMPORARY ON A DAILY BASIS OR PERMANENTLY DURING CONSTRUCTION REQUIRES THE APPROVAL OF A DETOUR PLAN BY THE AGENCY OR AGENCIES HAVING JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SIGNAGE WHEN THE ROADWAY IS TO BE CLOSED OR TRAFFIC DETOURED. WHEN ROAD CLOSURES ARE TEMPORARY ALL STREETS SHALL BE RE-OPENED TO TRAFFIC BY THE END OF THE WORK DAY AND ALL DETOUR SIGNS COVERED OR REMOVED. WHEN ROADS ARE PERMANENTLY CLOSED DURING CONSTRUCTION ACCESS MUST BE PROVIDED TO PROPERTIES LOCATED ON THE CLOSED ROAD AT THE END OF EACH WORK DAY AND ON WEEKENDS.

7. DURING NON-DAY LIGHT HOURS OR RESTRICTED VISIBILITY, THE CONTRACTOR SHALL PROPERLY ILLUMINATE THE WORK BY THE INSTALLATION AND MAINTENANCE OF SUITABLE LIGHTS OR FLARES ESPECIALLY ALONG OR ACROSS THOROUGHFARES.

ENVIRONMENTAL REQUIREMENTS

1. THE CONTRACTOR SHALL REFER TO CCU SPECIFICATIONS FOR “EROSION AND SEDIMENT CONTROL”.

2. PRIOR TO THE START AND DURING CONSTRUCTION ACTIVITIES, FOR AREAS WITHIN AND ADJOINING THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE PROTECTION BARRICADES/SILT FENCES/ADEQUATE MEASURES IN ACCORDANCE WITH COUNTY AND STATE REQUIREMENTS FOR ALL DESIGNATED TREES/PLANTS TO BE PROTECTED, WETLANDS, THREATENED AND/OR ENDANGERED SPECIES ETC.

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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU GENERAL NOTES (2)

SHEET NO. GN-3

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BEDDING, BACKFILL, AND COMPACTION

1. ALL PIPES BEDDING MATERIAL SHALL BE NEW MATERIAL UNLESS OTHERWISE APPROVED BY CCU.

2. FOUNDATION MATERIAL OR BEDDING STONE SHALL BE USED FOR BEDDING OF PIPE AND/OR MANHOLES AS INDICATED ON THE ENGINEERING DRAWINGS. CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, AND SUB-ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES AND OTHER DELETERIOUS MATERIALS. THE STONE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33, SIZE NO. 57 (3/4 INCH STONE) AND BE GRADED WITHIN THE FOLLOWING LIMITS:

U.S. SIEVE SIZE	PERCENT FINER BY WEIGHT
1 1/2 INCH	100
1 INCH	95-100
1/2 INCH	25-100
NO. 4	0-10
NO. 8	0-5

3. SAND FOR BEDDING OF THE POLYVINYL CHLORIDE (PVC) GRAVITY SEWER PIPE SHALL BE A DRY SCREENED AND GRADED MATERIAL WITH 95 PERCENT PASSING 1 INCH SIEVE AND NOT MORE THAN FIVE PERCENT PASSING A NO. 200 SIEVE. ALL PVC GRAVITY SEWER PIPE SHALL BE INSTALLED AND BEDDED IN ACCORDANCE WITH ASTM SPECIFICATION D-2321, "RECOMMENDED PRACTICE FOR UNDERGROUND INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE".

4. FOUNDATION STABILIZATION MATERIAL SHALL MEET CCU SPECIFICATIONS OR DESIGN DETAILS. IF DETERMINED BY CCU THE MATERIAL IN THE BOTTOM OF THE TRENCH IS UNSUITABLE FOR SUPPORTING THE PIPE, THE CONTRACTOR SHALL EXCAVATE BELOW THE FLOW LINE OF THE PIPE. THE TRENCH SHALL BE BACKFILLED TO SPECIFIED GRADE WITH FOUNDATION STABILIZATION MATERIAL. IF THE TRENCH IS PROPERLY DEWATERED, CCU APPROVED BACKFILL MATERIAL MAY BE USED FOR STABILIZATION. CRUSHED ROCK (NO. 57 STONE) SHALL BE USED WHEN A DRY TRENCH CANNOT BE OBTAINED. THE FOUNDATION STABILIZATION MATERIAL SHALL BE PLACED OVER THE FULL WIDTH OF THE TRENCH AND COMPACTED IN LAYERS NOT EXCEEDING SIX INCHES DEEP TO THE REQUIRED GRADE.

5. BACKFILLING OF TRENCHES SHALL NOT BE ALLOWED UNTIL THE WORK HAS BEEN APPROVED BY CCU. WORK BACKFILLED OR CONCEALED WITHOUT THE KNOWLEDGE OF CCU SHALL BE UNCOVERED OR EXPOSED FOR INSPECTION AT NO COST TO THE OWNER.

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6. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES OR IN THE UPPER SIX INCHES OF ALL BACKFILL AND FILLS SHALL NOT CONTAIN ANY STONES OR ROCKS LARGER THAN ONE INCH IN DIAMETER. EXISTING BACKFILL MATERIAL SHALL MEET THE ABOVE REQUIREMENTS AS APPROVED BY CCU. BROKEN CONCRETE SHALL NOT BE USED. OUTSIDE THE PIPE ZONE, FILL MATERIAL CONTAINING LIME ROCK SHALL HAVE SUFFICIENT SAND TO FILL THE VOIDS IN THE LIME ROCK. NO STONES OR ROCKS LARGER THAN THREE INCHES IN DIAMETER SHALL BE USED IN ANY BACKFILL.

7. MATERIAL SUITABLE FOR BACKFILL IN A PROPERLY DEWATERED TRENCH SHALL NOT BE EXPANSIVE NOR HAVE HIGH ORGANIC CONTENT; SHALL BE FREE OF DEBRIS, LUMPS AND CLODS; AND SHALL MEET THE FOLLOWING REQUIREMENTS:

   a. MAXIMUM LIQUID LIMIT SHALL NOT EXCEED 12 AS DETERMINED BY ASTM D423.

   b. MAXIMUM PLASTICITY INDEX SHALL NOT EXCEED 35 AS DETERMINED BY ASTM D424.

   c. NOT MORE THAN 10% OF WEIGHT SHALL BE FINER THAN 74 MICRON (NO. 200) U.S. STANDARD SIEVE.

8. READY-MIX FLOWABLE FILL OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED AS AN ALTERNATIVE TO COMPACTED SOIL WITH THE APPROVAL OF CCU OR WHERE SHOWN ON THE ENGINEERING DRAWINGS. APPLICATIONS FOR THE MATERIAL INCLUDE BEDDINGS, ENCASEMENTS, CLOSURES FOR TANKS AND PIPES, AND GENERAL BACKFILL APPLICATIONS FOR TRENCHES AND ABUTMENTS. FLOWABLE FILL SHALL BE DESIGNED TO BE EXCAVATED AND PUMPED FOR APPLICATIONS WHERE STRENGTH IS MORE IMPORTANT THAN EXCAVATABLITY. IF FLOWABLE FILL IS SPECIFIED, ULTIMATE COMPRESSIVE STRENGTH SHALL BE LESS THAN 200 PSI AT 28 DAYS. FLOWABLE FILL IS NOT ACCEPTABLE FOR USE AS BACKFILL UNDER PAVEMENT, SIDEWALKS OR OTHER HARD SURFACES UNLESS OTHERWISE APPROVED IN WRITING BY AUTHORITY WITH JURISDICTION.

9. THE CONTRACTOR SHALL COMPACT ALL PORTIONS OF A TRENCH WITHIN 7.5' OF EXISTING EDGE OF PAVEMENT TO 98% DENSITY, AASHTO T-180, AND 95% FOR OTHER AREAS WITHIN THE RIGHT OF WAY. IF MORE STRINGENT COMPACTION REQUIREMENTS ARE SHOWN ON THE PLANS OR IN THE CONTRACT DOCUMENTS THEY SHALL PREVAIL.

10. COMPACTION OF BACKFILL MATERIAL UNDER PAVEMENT, SIDEWALKS, OR OTHER HARD SURFACES SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

11. DENSITY TESTS SHALL BE PERFORMED FOR EACH 6" LIFT AT A MINIMUM OF ONE TEST PER 200 FEET OF TRENCH.

12. ALL WELL POINT HOLES UNDER PARKING, DRIVING, OR ROADWAY SURFACES SHALL BE BACKFILLED WITH CONCRETE IMMEDIATELY AFTER PULLING THE WELL POINTS. ALL OTHER WELL POINT HOLES SHALL BE BACKFILLED WITH FDOT NO. 89 STONE IMMEDIATELY AFTER REMOVING THE WELL POINTS UNLESS SPECIFIED OR DIRECTED TO DO OTHERWISE BY CCU.

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CHARLOTTE COUNTY UTILITIES		
ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU GENERAL NOTES (3)

SHEET NO.
GN-4

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FORCE MAIN SECTION 002325:

TESTING MAINS AND TAPPING SLEEVES

ALL PRESSURE AND BACTERIOLOGICAL TESTS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS C-600, LATEST REVISION. A PRESSURE TEST SHALL BE REQUIRED FOR ALL INSTALLATIONS OF FORCE MAINS AND ALL APPURTENANCES. PRESSURE TESTING SHALL NOT EXCEED 1500 LINEAR FEET UNLESS OTHERWISE APPROVED BY CCU.

3.2.1 PRESSURE TEST

a. PIPE:

THE CONTRACTOR SHALL HYDROSTATICALLY PRESSURE TEST ALL PVC, HDPE, AND DI FORCE MAINS IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C-600 SERIES AS APPLICABLE. OIL FILLED GAUGES SHALL ONLY BE USED FOR ALL PRESSURE TESTS. THE TESTS SHALL BE AT 150 PSI FOR A PERIOD OF TWO (2) HOURS. THE ALLOWABLE LOSS FOR ONE (1) HOUR SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

$$\text{ALLOWABLE LEAKAGE} = \frac{(D)(L)(PY)}{133{,}200}$$

WHERE: D = NOMINAL DIAMETER OF THE PIPE IN INCHES
L = LENGTH OF PIPE IN FEET
PY = SQUARE ROOT OF TEST PRESSURE DURING THE LEAKAGE TEST IN POUNDS PER SQUARE INCH

CALIBRATED TEST EQUIPMENT SHALL BE ON SITE TO VERIFY THE LOSS OF WATER DURING THE TESTING PERIOD.

b. TAPPING SLEEVES:

ALL FORCE MAIN TAPPING SLEEVES SHALL BE HYDROSTATICALLY PRESSURE TESTED IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C-600. THE TEST SHALL BE CONDUCTED AT 150 PSI FOR A PERIOD OF TWO (2) HOURS. NO LOSS OF PRESSURE IS ALLOWED.

c. PROCEDURES:

EACH SECTION OF PIPE BETWEEN VALVES, BETWEEN THE TAPPING SLEEVE AND THE PIPE, AND/OR THE VALVE AND THE TAPPING SLEEVE SHALL BE SLOWLY FILLED WITH WATER FROM A SAFE SOURCE, AND THE SPECIFIED TEST PRESSURE SHALL BE APPLIED BY MEANS OF A WATER PUMP IN A MANNER SATISFACTORY TO CCU. IN THE CASE OF TESTING A PIPE WHERE VALVES DO NOT EXIST, THE CONTRACTOR SHALL PLUG THE END OF THE LINE AS APPROVED BY CCU. THE PUMP, PIPE, AND/OR TAPPING SLEEVE CONNECTIONS, GAUGE, AND ALL NECESSARY APPARATUS SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL BE APPROVED BY CCU PRIOR TO THE CONDUCT OF ANY TEST. ALL NECESSARY PIPE TAPS FOR TESTING SHALL BE MADE BY THE CONTRACTOR AS APPROVED BY CCU. CCU MAY REQUEST TESTING OF ISOLATED PORTIONS BETWEEN VALVES WITHIN THE TEST SECTION IF A PORTION OF THAT MAIN HAS CRITICAL COMPONENTS SUCH AS MULTIPLE FITTINGS AT AN EXTREME DEFLECTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY PIPE TAPS INSTALLED FOR THIS PURPOSE UPON COMPLETION OF THE TEST AS APPROVED BY CCU.

PRESSURE SHALL BE MEASURED FROM SAMPLE POINTS, BLOW-OFF ASSEMBLIES, FOR FORCE MAIN PRESSURE TESTS. CCU SHALL WITNESS ALL TAPPING SLEEVE AND FORCE WATER MAIN PRESSURE TESTS.

POTABLE WATER SECTION 002335:

TESTING MAINS AND TAPPING SLEEVES

ALL PRESSURE AND BACTERIOLOGICAL TESTS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS C-600, C651, AND C-652, LATEST REVISION.
A PRESSURE TEST SHALL BE REQUIRED FOR ALL INSTALLATIONS OF POTABLE WATER AND RECLAIMED WATER MAINS AND ALL APPURTENANCES. BACTERIOLOGICAL TESTING SHALL BE DONE FOR ALL INSTALLATIONS OF POTABLE WATER MAINS EXCEPT AS NOTED HEREAFTER. NO BACTERIOLOGICAL TESTING IS REQUIRED FOR CERTAIN LIMITED PIPE INSTALLATIONS AS APPROVED BY CCU SUCH AS A NEW POTABLE WATER SERVICE CONNECTION INSTALLATION, THE ADDITION OF A FIRE HYDRANT ASSEMBLY TO AN EXISTING POTABLE WATER MAIN, OR THE INSTALLATION OF LIMITED ADDITIONAL PIPING AND FITTINGS SUCH AS A DIVE UNDER NEW STORM SEWER TO AN EXISTING POTABLE WATER MAIN. UPON COMPLETION OF THE INSTALLATION OF THE POTABLE WATER SERVICE CONNECTION, THE SERVICE CONNECTION SHALL BE FLUSHED PRIOR TO CONNECTION TO THE ON-SITE POTABLE WATER SERVICE CONNECTION. THE INSIDE OF THE FIRE HYDRANT ASSEMBLY OR THE INSIDE OF THE NEW LIMITED POTABLE WATER MAIN PIPING AND FITTINGS SHALL BE WIPED CLEAN AND SHALL BE WIPED WITH A CHLORINE SOAKED RAG IN COMPLIANCE WITH FDEP REGULATIONS PRIOR TO INSTALLATION. ALL SUCH POTABLE WATER MAINS AND SERVICE CONNECTIONS AND POTABLE WATER MAINS TAKEN OUT OF SERVICE FOR INSPECTION, ALTERATION, OR ANY OTHER ACTIVITY EXPOSING THE INTERIOR PIPELINE TO THE POSSIBILITY OF CONTAMINATION SHALL BE DISINFECTED IN COMPLIANCE WITH FDEP REGULATIONS BEFORE THEY ARE PLACED IN AND/OR RETURNED TO SERVICE.

3.2.1 PRESSURE TEST

a. PIPE:
THE CONTRACTOR SHALL HYDROSTATICALLY PRESSURE TEST ALL PVC, HDPE, AND DI POTABLE AND RECLAIM WATER MAINS IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C-600 SERIES AS APPLICABLE. OIL FILLED GAUGES SHALL ONLY BE USED FOR ALL PRESSURE TESTS. THE TESTS SHALL BE AT 150 PSI FOR A PERIOD OF TWO (2) HOURS. THE ALLOWABLE LOSS FOR ONE (1) HOUR SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

$$\text{ALLOWABLE LEAKAGE} = \frac{(D)(L)(PY)}{133{,}200}$$

WHERE: D = NOMINAL DIAMETER OF THE PIPE IN INCHES
L = LENGTH OF PIPE IN FEET
PY = SQUARE ROOT OF TEST PRESSURE DURING THE LEAKAGE TEST IN POUNDS PER SQUARE INCH

CALIBRATED TEST EQUIPMENT SHALL BE ON SITE TO VERIFY THE LOSS OF WATER DURING THE TESTING PERIOD.

PRESSURE TESTING SHALL NOT EXCEED 1500 LINEAR FEET UNLESS OTHERWISE APPROVED BY CCU.

b. TAPPING SLEEVES:

ALL POTABLE AND RECLAIM WATER TAPPING SLEEVES SHALL BE HYDROSTATICALLY PRESSURE TESTED IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C-600. THE TEST SHALL BE CONDUCTED AT 150 PSI FOR A PERIOD OF TWO (2) HOURS. NO LOSS OF PRESSURE IS ALLOWED.

c. PROCEDURES:

EACH SECTION OF PIPE BETWEEN VALVES, BETWEEN THE TAPPING SLEEVE AND THE PIPE, AND/OR THE VALVE AND THE TAPPING SLEEVE SHALL BE SLOWLY FILLED WITH WATER FROM A SAFE SOURCE, AND THE SPECIFIED TEST PRESSURE SHALL BE APPLIED BY MEANS OF A WATER PUMP IN A MANNER SATISFACTORY TO CCU. IN THE CASE OF TESTING A PIPE WHERE VALVES DO NOT EXIST, THE CONTRACTOR SHALL PLUG THE END OF THE LINE AS APPROVED BY CCU. THE PUMP, PIPE, AND/OR TAPPING SLEEVE CONNECTIONS, GAUGE, AND ALL NECESSARY APPARATUS SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL BE APPROVED BY CCU PRIOR TO THE CONDUCT OF ANY TEST. ALL NECESSARY PIPE TAPS FOR TESTING SHALL BE MADE BY THE CONTRACTOR AS APPROVED BY CCU. CCU MAY REQUEST TESTING OF ISOLATED PORTIONS BETWEEN VALVES WITHIN THE TEST SECTION IF A PORTION OF THAT MAIN HAS CRITICAL COMPONENTS SUCH AS MULTIPLE FITTINGS AT AN EXTREME DEFLECTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY PIPE TAPS INSTALLED FOR THIS PURPOSE UPON COMPLETION OF THE TEST AS APPROVED BY CCU.

PRESSURE SHALL BE MEASURED FROM SAMPLE POINTS, BLOW-OFF ASSEMBLIES, WATER SERVICES, OR FIRE AND FLUSH HYDRANTS FOR POTABLE WATER AND RECLAIMED WATER MAIN PRESSURE TESTS. CCU SHALL WITNESS ALL TAPPING SLEEVE AND POTABLE WATER AND RECLAIMED WATER MAIN PRESSURE TESTS.

3.2.2 BACTERIOLOGICAL TEST

a. ALL DISINFECTION SHALL BE IN ACCORDANCE WITH AWWA C-651, THE TEN STATES RECOMMENDED STANDARDS FOR WATER WORKS AS INCORPORATED BY FDEP, OTHER PERTINENT FDEP REGULATIONS, AND THE FLORIDA ADMINISTRATIVE CODE UNLESS OTHER SPECIFIC WRITTEN APPROVAL BY CCU IS ISSUED. MATERIALS AND EQUIPMENT FOR KEEPING THE PIPE CLEAN (DURING CONSTRUCTION), CHLORINATING THE MAIN, FLUSHING/DISPOSING OF THE HEAVILY CHLORINATED WATER, BACTERIOLOGICAL SAMPLING AND ANY REDISINFECTION, IF REQUIRED, SHALL BE PROVIDED BY THE CONTRACTOR. CHLORINATION SHALL BE DONE BY THE CONTINUOUS FEED METHOD USING EITHER A LIQUID CHLORINE GAS-WATER MIXTURE OR A CALCIUM OR SODIUM HYPOCHLORITE SOLUTION. DIRECT FEED CHLORINATION OR PLACING CONCENTRATED QUANTITIES OF COMMERCIAL DISINFECTANTS SUCH AS CALCIUM HYPOCHLORITE GRANULES IN THE LINE PRIOR TO FILLING WITH WATER SHALL NOT BE USED.

b. CHLORINE RESIDUALS SHALL BE TESTED USING A CHLORIDIMETER. NOTE: A COLOR WHEEL SHALL NOT BE USED.

C. SAMPLE POINTS SHALL BE LOCATED ON THE FAR SIDE OF ALL LOOPS, AT ALL DEAD ENDS, AND NOT FURTHER THAN 1200 LINEAR FEET APART UNLESS OTHERWISE APPROVED BY CCU. SAMPLES SHALL BE COLLECTED FROM SAMPLE POINTS, BLOW-OFF ASSEMBLIES, OR WATER SERVICES. FIRE HYDRANTS OR FLUSHING DEVISES SHALL NOT BE USED AS BACTERIOLOGICAL SAMPLE POINTS. TEST SAMPLES SHALL BE COLLECTED AND TRANSPORTED BY CERTIFIED LABORATORY PERSONNEL. CCU SHALL WITNESS THE COLLECTION OF ALL SAMPLES.

MATERIALS AND METHODS OF CONSTRUCTION

ALL MATERIALS AND CONSTRUCTION METHODS USED IN THE CONSTRUCTION OF CCU'S UTILITIES INCLUDING BUT NOT LIMITED TO PIPING, VALVES, FITTINGS, RESTRAINTS, FIRE HYDRANTS, BLOW-OFFS, GRAVITY SEWER MAINS, MANHOLES, LIFT STATIONS, WATER AND SEWER SERVICES AND ALL ASSOCIATED APPURTENANCES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CCU'S STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.

RESTORATION

1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED OR DAMAGED AREAS TO THE SAME OR BETTER CONDITION THAN THAT PRIOR TO THE START OF CONSTRUCTION.
2. ALL AREAS IN EXISTING RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER THAN THE ORIGINAL CONDITION AND GROUND COVER TO THE SATISFACTION OF THE LOCAL OR STATE AGENCY HAVING JURISDICTION.
3. ALL DISTURBED SWALE OR CANAL GRADES SHALL BE RESTORED TO THE GRADES AND ELEVATIONS THAT EXISTED PRIOR TO DISTURBANCE UNLESS OTHERWISE SPECFIED ON THE ENGINEERING DRAWINGS OR IN THE CONTRACT DOCUMENTS.

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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU TESTING REQUIREMENTS AND GENERAL NOTES (4)

SHEET NO. GN-5

TABLE 1				
HORIZONTAL BENDS AND ELBOWS				
LENGTH OF RESTRAINED JOINT PIPE (FEET)				
NOMINAL PIPE DIAMETER	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4	14	6	3	2
6	20	9	4	2
8	26	11	6	3
10	30	13	7	4
12	36	15	8	4
16	47	20	10	5
20	57	24	12	6
24	66	28	13	7
30	79	33	16	8
36	91	38	19	9

TABLE 2	
TEES AND WYES	
NOMINAL PIPE DIAMETER OF BRANCH PIPE (IN INCHES)	RESTRAINED LENGTH ALONG BRANCH PIPE (IN FEET)
4	11
6	21
8	32
10	48
12	65
16	97
20	128
24	156
30	196
36	233

TABLE 3		
REDUCERS		
NOMINAL PIPE DIAMETER		RESTRAINED LENGTH ALONG PIPE (IN FEET)
LARGE END	SMALL END	
6	4	33
8	6	35
10	4	81
10	6	61
10	8	34
12	4	103
12	6	86
12	8	63
12	10	35
16	12	65
20	16	66
24	20	66
30	24	94
36	30	95

TABLE 4	
DEAD ENDS	
NOMINAL PIPE DIAMETER	RESTRAINED LENGTH ALONG PIPE (IN FEET)
4	45
6	63
8	83
10	100
12	118
16	153
20	187
24	220
30	267
36	313

NOTES : (ALL TABLES)

1. FITTINGS SHALL BE RESTRAINED JOINT UNLESS OTHERWISE NOTED.
2. ALL PIPE SHALL BE RESTRAINED IN ACCORDANCE WITH THESE TABLES OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.
3. WHERE TWO (2) OR MORE FITTINGS ARE TOGETHER, RESTRAIN JOINTS IN ACCORDANCE WITH FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. RESTRAINT TABLES APPLY TO TEST PRESSURES OF 150 PSI OR LESS.
5. FOR PIPE ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUES BY A FACTOR OF 1.5.
6. LENGTH OF RESTRAINED PIPE INDICATED IN TABLES 1 & 4 SHALL BE THE LENGTH OF PIPE ON EACH SIDE OF FITTING OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.
7. LENGTH OF RESTRAINED PIPE INDICATED IN TABLE 2 SHALL BE THE LENGTH OF PIPE ALONG BRANCH OF PIPE ONLY OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER. PIPE ON BOTH SIDES OF BRANCH SHALL HAVE A MINIMUM LAYING LENGTH OF 10 FEET.
8. LENGTH OF RESTRAINED PIPE INDICATED IN TABLE 3 SHALL BE THE LENGTH OF PIPE ON LARGE END ONLY OR AS PER DESIGN CRITERIA, WHICHEVER IS GREATER.

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DATE: 11/01/2011	RESTRAINT TABLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
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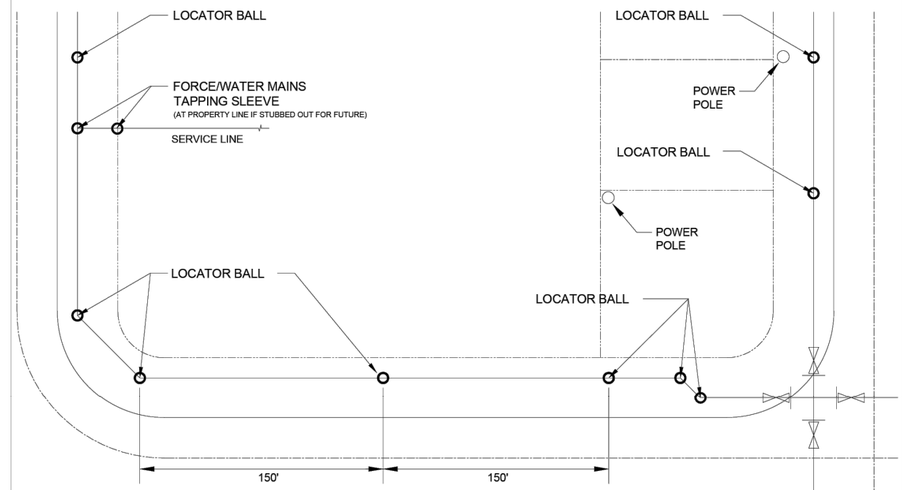
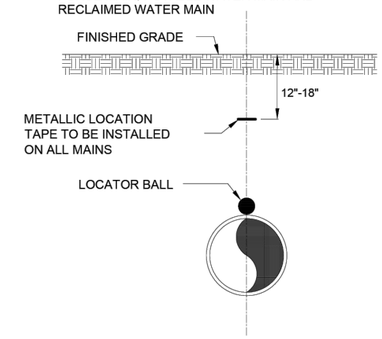
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-01-RT.DWG



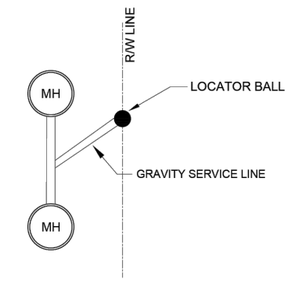
PLAN VIEW

FORCE MAIN, POTABLE WATER MAIN AND RECLAIMED WATER MAIN

GRAVITY MAIN



PROFILE VIEW



PLAN VIEW

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DATE: 11/01/2011	MARKER BALL AND METALLIC LOCATION TAPE INSTALLATION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-02
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-02-MBL.dwg

REVISIONS			
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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU GENERAL DETAILS (1)

SHEET NO. GD-1

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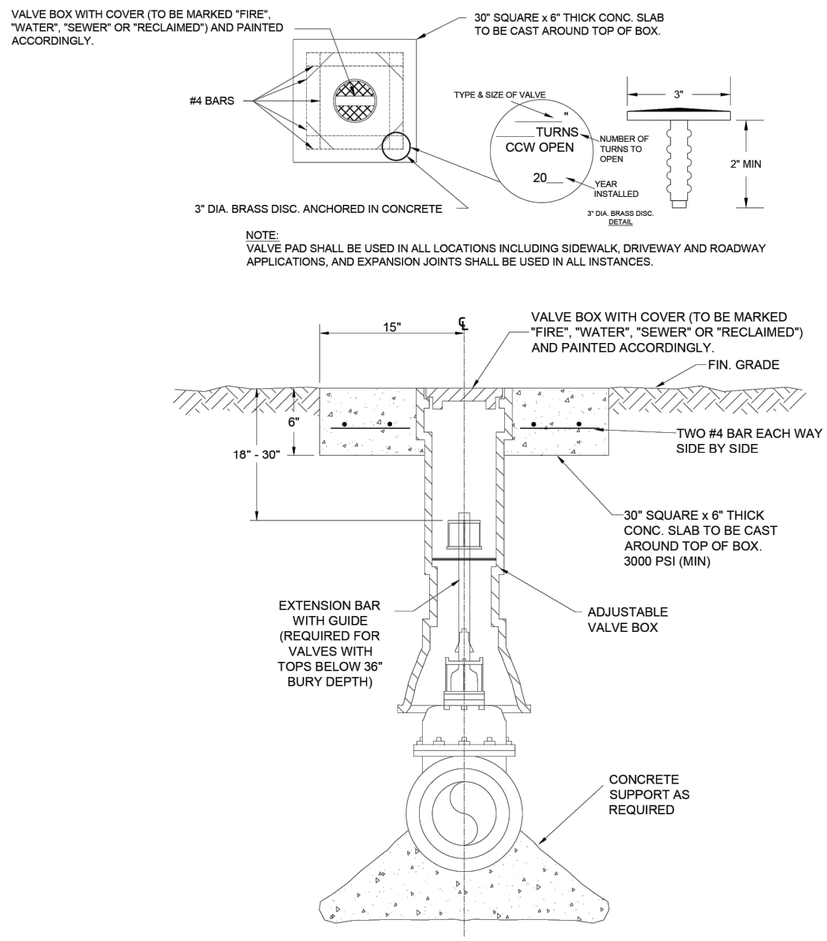

NOTE:
VALVE PAD SHALL BE USED IN ALL LOCATIONS INCLUDING SIDEWALK, DRIVEWAY AND ROADWAY APPLICATIONS, AND EXPANSION JOINTS SHALL BE USED IN ALL INSTANCES.

NOTE:

ALL VALVES 14" AND LARGER SHALL BE SIDE ACTUATED.

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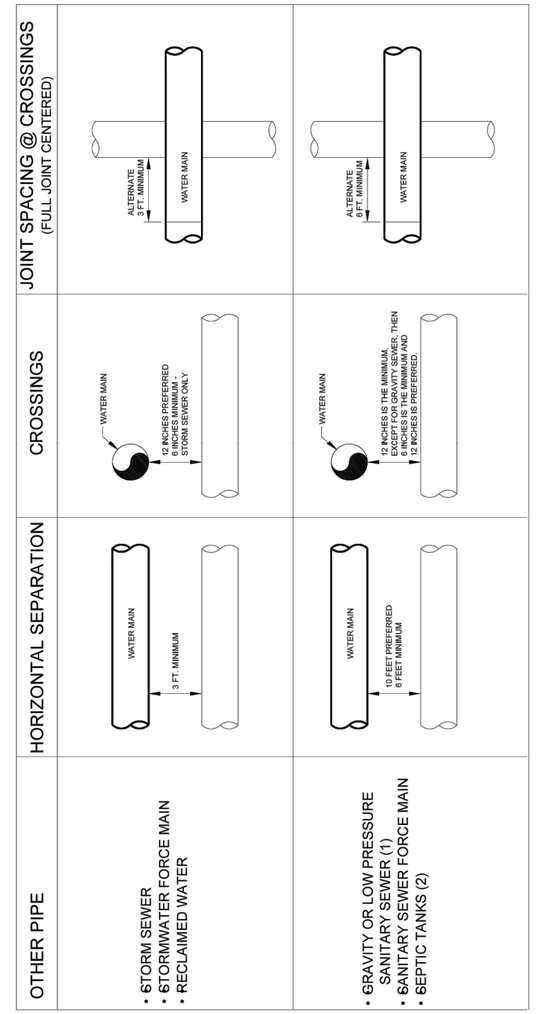
DATE: 11/01/2011	TYPICAL VALVE INSTALLATION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-03
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-03-TV.dwg



NOTES:
1. 3 FEET FOR GRAVITY TYPE SANITARY SEWERS WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY TYPE SANITARY SEWER.
2. THE SEPARATION BETWEEN POTABLE WATER, RECLAIMED WATER AND OSTDS (SEPTIC TANKS) SHALL BE 10 FEET.
3. WATER MAIN SHALL CROSS ABOVE OTHER PIPE. WHEN WATER MAIN SHALL BE BELOW OTHER PIPE THE MINIMUM SEPARATION SHALL BE 18 INCHES.

WATER AND SEWER LINE AND SEPTIC TANK SEPARATIONS

n.t.s.

IN ACCORDANCE WITH F.A.C. RULE 62-555.314

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DATE: 11/01/2011	MAIN SEPARATION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-05
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-05-MS.dwg

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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU GENERAL DETAILS (2)

SHEET NO. GD-2

7/10/2025 8:03:58 AM

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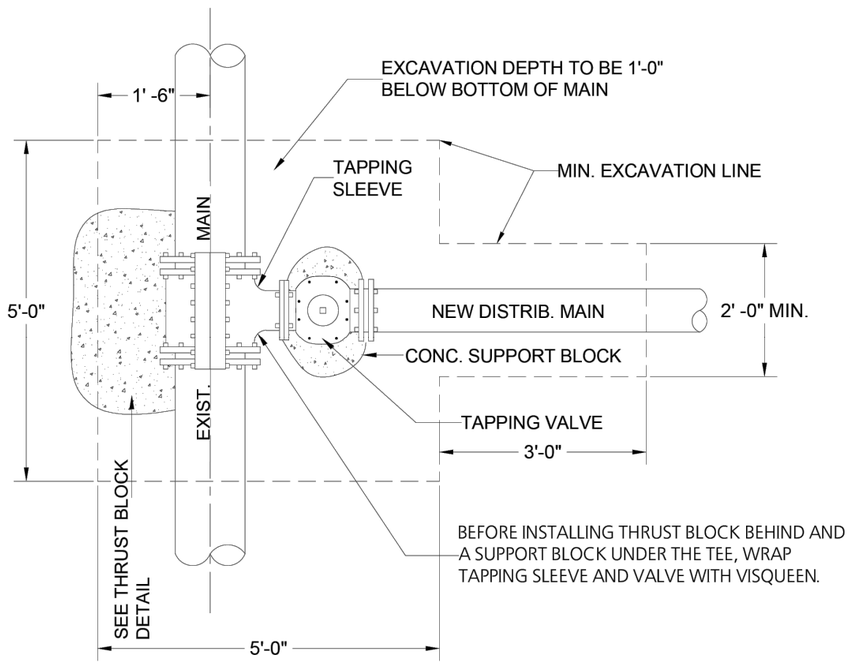

NOTE:

1. CUT IN TEES SHALL BE CONNECTED USING RIGID COUPLER
2. INSTALL A SUPPORT BLOCK UNDER THE TAPPING VALVE IF DIRECTED BY CCU.

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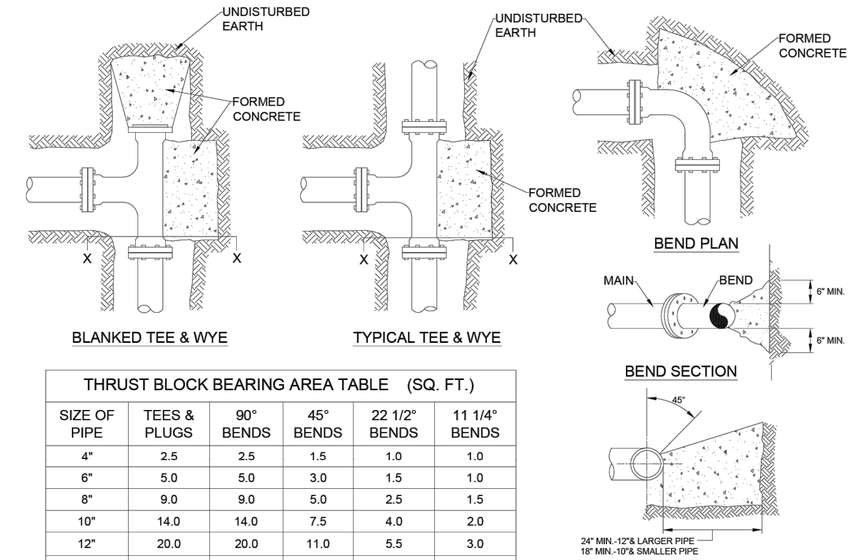
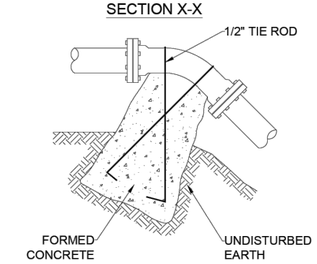
DATE: 11/01/2011	TAPPING SLEEVE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-07
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-07-TS.dwg



THRUST BLOCK BEARING AREA TABLE (SQ. FT.)					
SIZE OF PIPE	TEES & PLUGS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2.5	2.5	1.5	1.0	1.0
6"	5.0	5.0	3.0	1.5	1.0
8"	9.0	9.0	5.0	2.5	1.5
10"	14.0	14.0	7.5	4.0	2.0
12"	20.0	20.0	11.0	5.5	3.0
14"	27.0	27.0	15.0	7.5	4.0
16"	35.0	35.0	19.0	10.0	5.0

NOTE:

1. THRUST BLOCKS SHALL BE USED IN CONJUNCTION WITH THE RESTRAINED JOINT TABLE WHEN DIRECTED BY THE ENGINEER AND/OR CHARLOTTE COUNTY UTILITIES.
2. WRAP ALL FITTINGS WITH VISQUEEN BEFORE POURING THRUST BLOCKS. ALL THRUST BLOCKS SHALL BE LEFT OPEN FOR INSPECTION BY CCU.
3. ALL BEARING SURFACE SHALL BE CARRIED TO UNDISTURBED SOIL.
4. THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR SOIL WITH A 2,000 P.S.F. SOIL BEARING (A-1 THRU A-3 CLEAN SAND AND GRAVELS).
5. POOR SOIL (A-1 THRU A-8, SILTY SOILS, CLAYS, MUCK & PEAT) SHALL REQUIRE LARGER THRUST BLOCKS.
6. THRUST BLOCK SIZES SHALL BE BASED ON 150 P.S.I. HYDROSTATIC TEST PRESSURE.
7. ALL THRUST BLOCKING SHALL BE 2500 PSI-28 DAY CONCRETE.
8. VERTICAL BENDS ONLY - 1/2" TIE RODS SHALL BE ANCHORED TO REACTION BLOCK AND COATED WITH 2 COATS OF BITUMINOUS EPOXY (16 MILS DRY THICKNESS).
9. VERTICAL BENDS ONLY - THRUST BLOCKS SHALL BE SIZED BY ENGINEER, AND APPROVED BY CCU PRIOR TO CONSTRUCTION.



ANCHOR THRUST BLOCK
(VERTICAL BENDS ONLY)

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DATE: 11/01/2011	TYPICAL THRUST BLOCK DETAILS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-08
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-08-THB.dwg

REVISIONS			
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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU GENERAL DETAILS (3)

SHEET NO. GD-3

7/10/2025 8:04:03 AM
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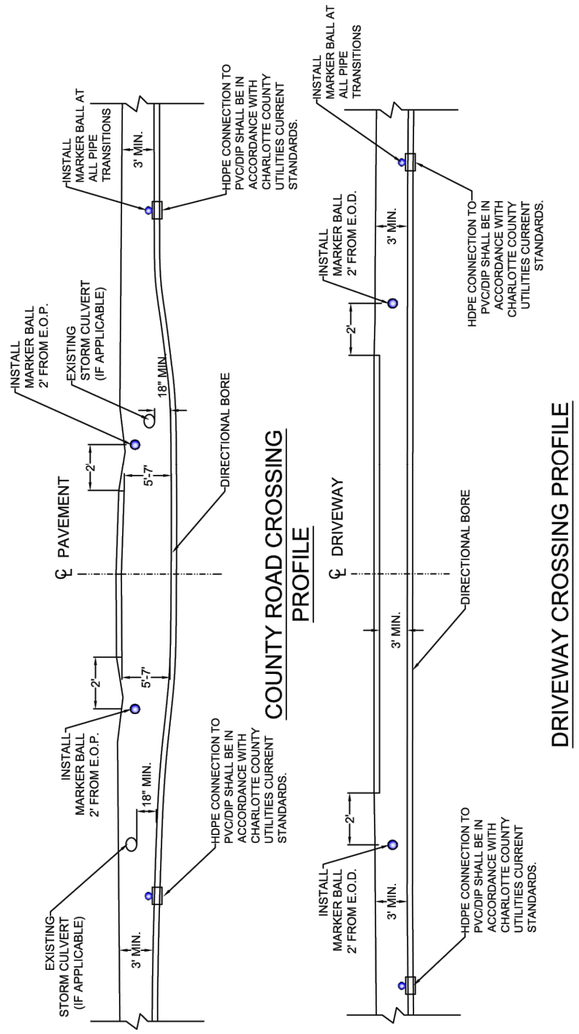

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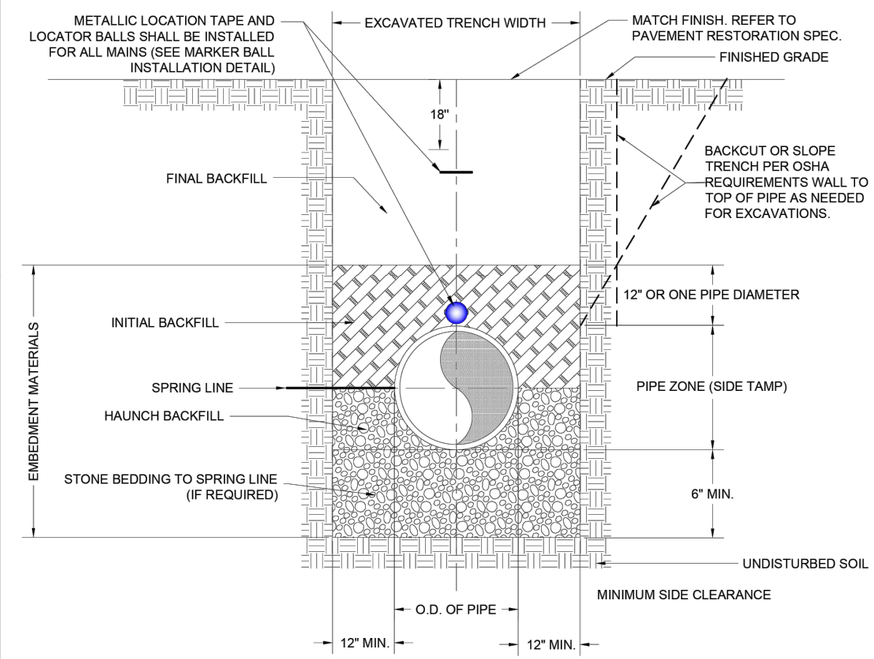
DATE: 11/01/2011	TYPICAL DIRECTIONAL BORE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-10
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-10-DB.dwg



DATE: 1/1/2009	STANDARD PRESSURE PIPE TRENCH	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		PAGE No. GD-13
APPROVED BY: TGD	CHARLOTTE COUNTY UTILITIES	NUMBER: G-12-TEBFPP

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU GENERAL DETAILS 4)

SHEET NO. GD-4

7/10/2025 8:04:08 AM

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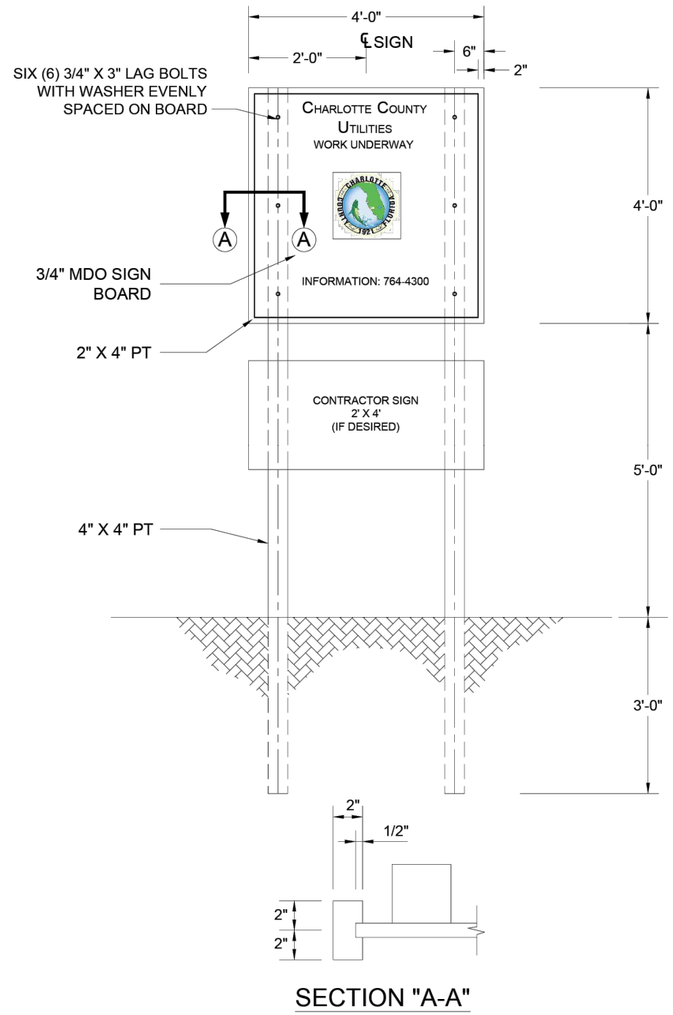

SECTION "A-A"

DATE: 11/01/2011	CCU PROJECT SIGN	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-20
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-20-PS.dwg

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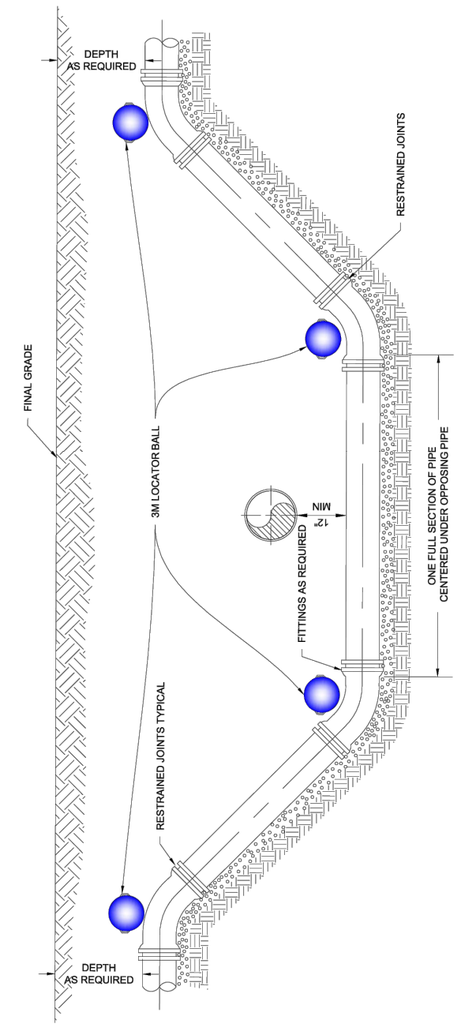

RESTRAINED JOINT FITTING
TYPE UTILITY CROSSING

DATE: 11/01/2011	TYPICAL UTILITY CROSSING	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		GD-23
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: GD-23-TUXING.dwg

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REVISIONS			
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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU GENERAL DETAILS (5)

SHEET NO. GD-5

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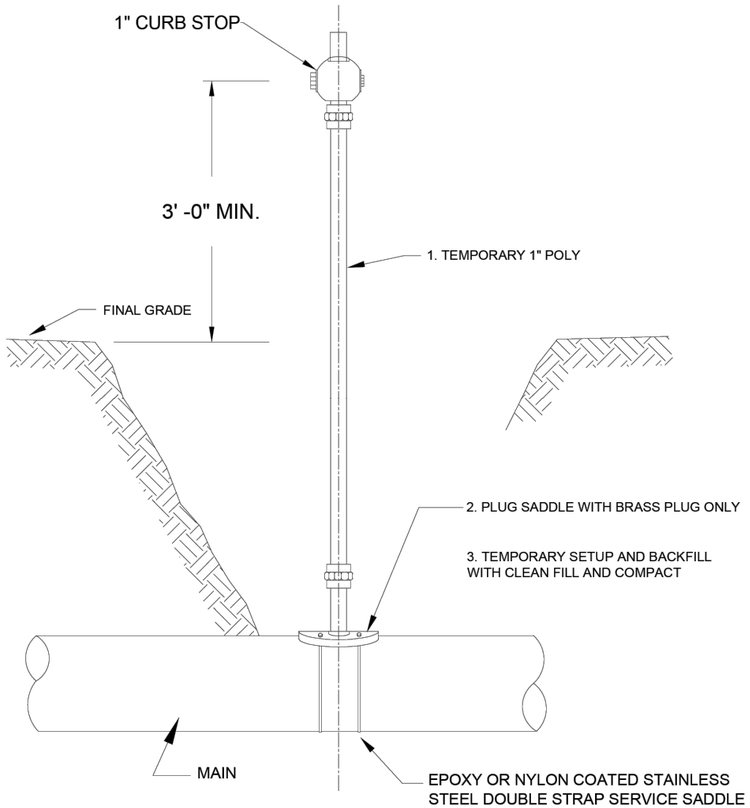

NOTE:
1: REMOVE RISER PIPE AND INSTALL BRASS PLUG AFTER FDEP CERTIFICATIONS.
2: USE TEFLON TAPE IN LIEU OF PIPE DOPE ON THREADED FITTINGS.

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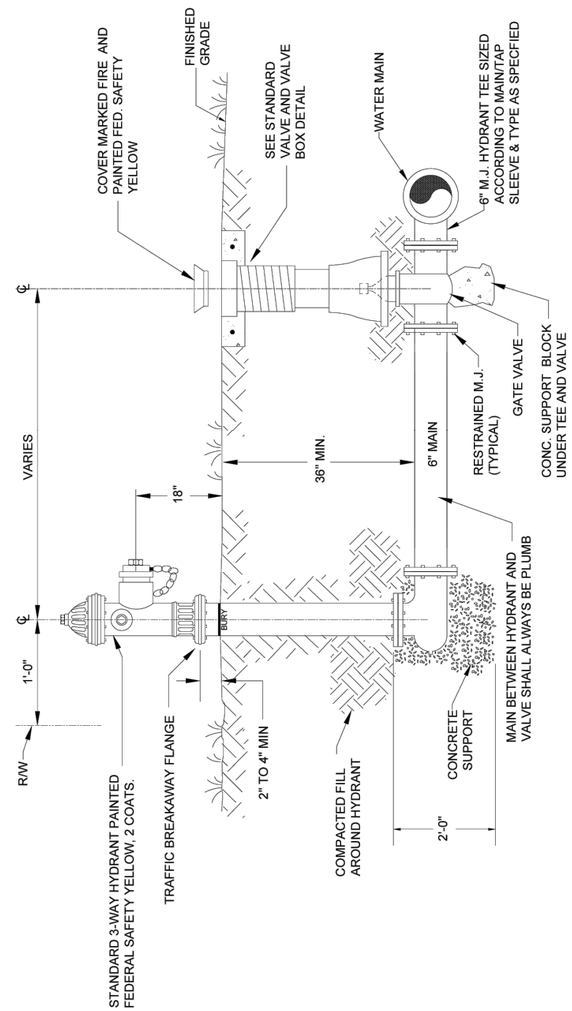
DATE: 11/01/2011	SAMPLE POINT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		PW-01
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: PW-01-BACT.dwg



NOTE:
1. BOLLARDS SHALL BE INSTALLED WHEN INSTALLATION CAN BE DAMAGED;
SEE FIRE HYDRANT PROTECTION IN PAVED SERVICE AREA DETAIL

Z:\Auto Cad R14\DETAILS\2012 Details\06.POTABLE WATER\PW-02-FH.dwg

DATE: 11/01/2011	FIRE HYDRANT WITH TYPICAL GATE VALVE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		PW-02
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: PW-02-FH.dwg

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU POTABLE WATER DETAIL (1)

SHEET NO. D-1

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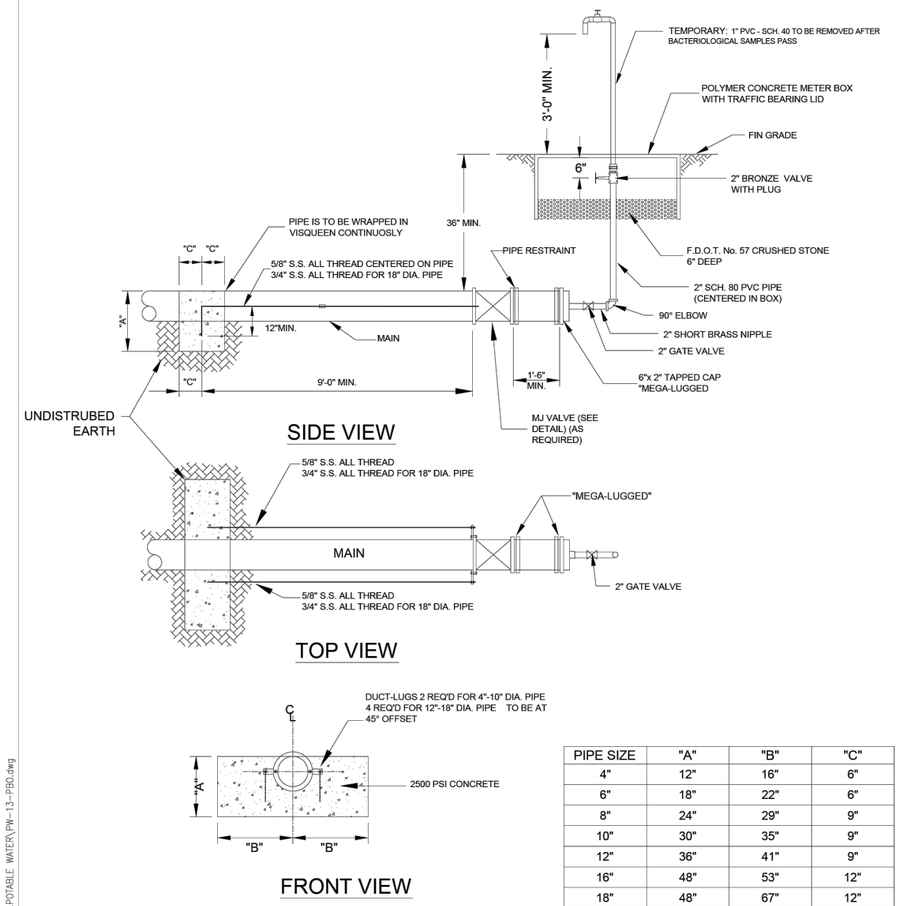

PIPE SIZE	"A"	"B"	"C"
4"	12"	16"	6"
6"	18"	22"	6"
8"	24"	29"	9"
10"	30"	35"	9"
12"	36"	41"	9"
16"	48"	53"	12"
18"	48"	67"	12"

DATE: 11/01/2011	PERMANENT END OF MAIN BLOW-OFF ASSEMBLY (WATER)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		PW-13
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: PW-13-PBO.dwg

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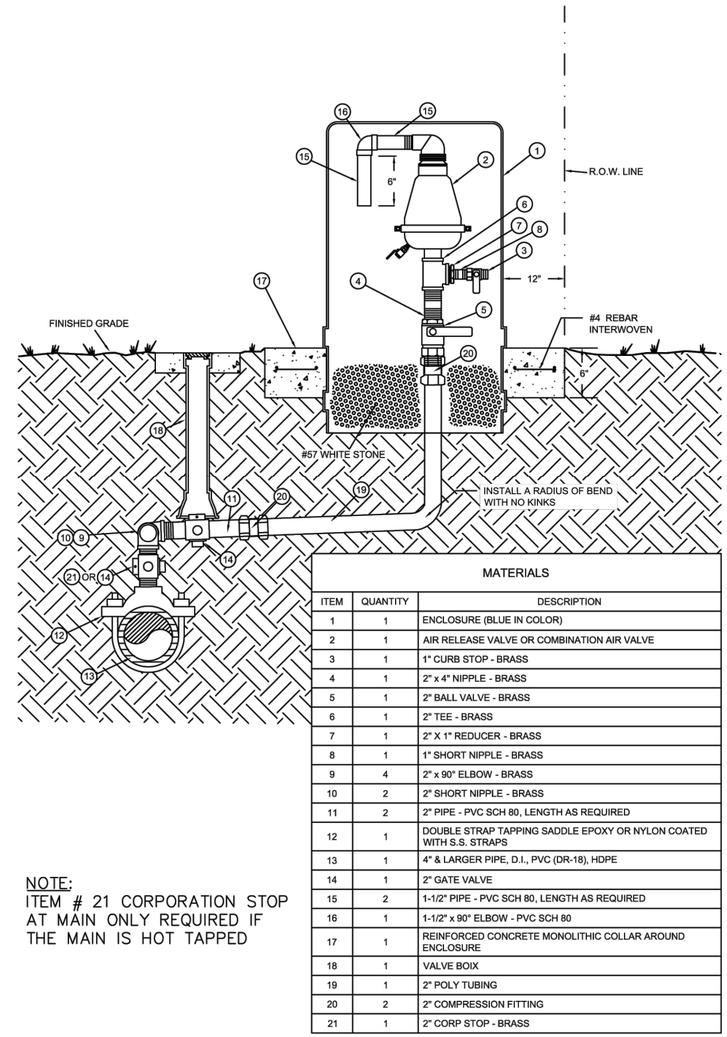

NOTE:
ITEM # 21 CORPORATION STOP AT MAIN ONLY REQUIRED IF THE MAIN IS HOT TAPPED

MATERIALS

ITEM	QUANTITY	DESCRIPTION
1	1	ENCLOSURE (BLUE IN COLOR)
2	1	AIR RELEASE VALVE OR COMBINATION AIR VALVE
3	1	1" CURB STOP - BRASS
4	1	2" x 4" NIPPLE - BRASS
5	1	2" BALL VALVE - BRASS
6	1	2" TEE - BRASS
7	1	2" X 1" REDUCER - BRASS
8	1	1" SHORT NIPPLE - BRASS
9	4	2" x 90" ELBOW - BRASS
10	2	2" SHORT NIPPLE - BRASS
11	2	2" PIPE - PVC SCH 80, LENGTH AS REQUIRED
12	1	DOUBLE STRAP TAPPING SADDLE EPOXY OR NYLON COATED WITH S.S. STRAPS
13	1	4" & LARGER PIPE, D.I., PVC (DR-18), HDPE
14	1	2" GATE VALVE
15	2	1-1/2" PIPE - PVC SCH 80, LENGTH AS REQUIRED
16	1	1-1/2" x 90° ELBOW - PVC SCH 80
17	1	REINFORCED CONCRETE MONOLITHIC COLLAR AROUND ENCLOSURE
18	1	VALVE BOIX
19	1	2" POLY TUBING
20	2	2" COMPRESSION FITTING
21	1	2" CORP STOP - BRASS

DATE: 11/01/2011	POTABLE WATER AUTOMATIC AIR RELEASE VALVE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.
DRAWN BY: DEC		PW-14
APPROVED BY: BRB	CHARLOTTE COUNTY UTILITIES	ID: PW-14-ARV-.dwg

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU POTABLE WATER DETAIL (2)

SHEET NO. D-2

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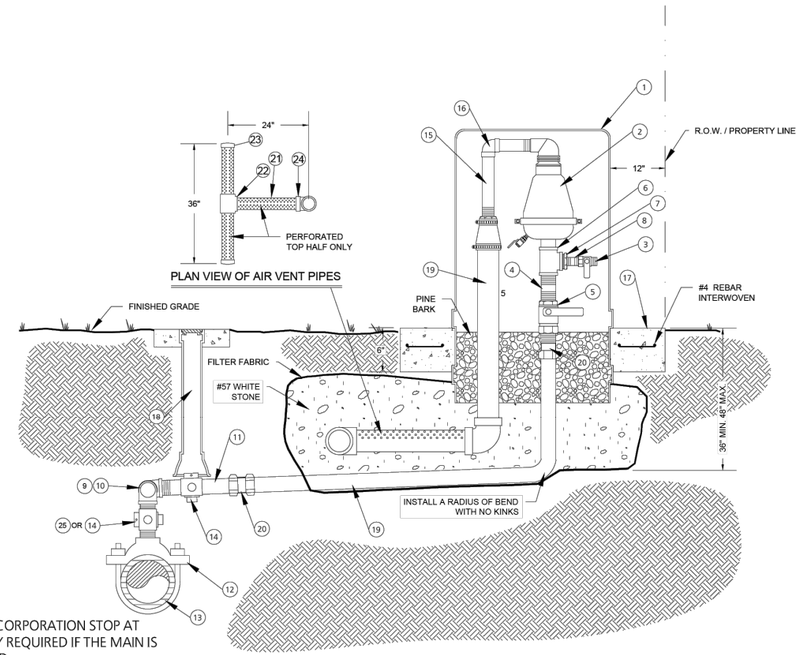

ITEM # 25 CORPORATION STOP AT MAIN ONLY REQUIRED IF THE MAIN IS HOT TAPPED

MATERIALS

ITEM	QUANTITY	DESCRIPTION
1	1	ENCLOSURE (GREEN IN COLOR)
2	1	AIR RELEASE VALVE
3	1	1" CURB STOP - BRASS
4	1	2" x 4" NIPPLE - BRASS
5	1	2" BALL VALVE - BRASS
6	1	2" TEE - BRASS
7	1	2" X 1" REDUCER - BRASS
8	1	1" SHORT NIPPLE - BRASS
9	4	2" x 90° ELBOW - BRASS
10	2	2" SHORT NIPPLE - BRASS
11	2	2" PIPE - PVC SCH 80, LENGTH AS REQUIRED
12	1	DOUBLE STRAP TAPPING SADDLE EPOXY OR NYLON COATED WITH S.S. STRAPS
13	1	4" & LARGER PIPE, D.I., PVC (DR-18), HDPE
14	1	2" GATE VALVE
15	2	1-1/2" PIPE - PVC SCH 80, LENGTH AS REQUIRED
16	1	1-1/2" x 90° ELBOW - PVC SCH 80
17	1	REINFORCED CONCRETE MONOLITHIC COLLAR AROUND ENCLOSURE
18	1	VALVE BOIX
19	1	2" POLY TUBING
20	2	2" COMPRESSION FITTING
21	1	3" PIPE, PVC, LENGTH AS SHOWN, PERFORATED TOP HALF ONLY
22	1	3" TEE, PVC
23	1	3" CAP PVC
24	1	3" X 90° ELBOW, PVC
25	1	2" CORP STOP-BRASS

DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: BRB

LOW PRESSURE & FORCE MAIN SEWER
AUTO-AIR RELEASE VALVE ASSEMBLY W/
ODOR CONTROL SYSTEM

CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

LP-08

ID: LPS-08-ARV.dwg

Z:\Auto Cad R14\DETAILS\2012 Details\05.LOW PRESSURE\General\LPS-08-ARV.dwg

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU FORCE MAIN DETAIL

SHEET NO.

D-3

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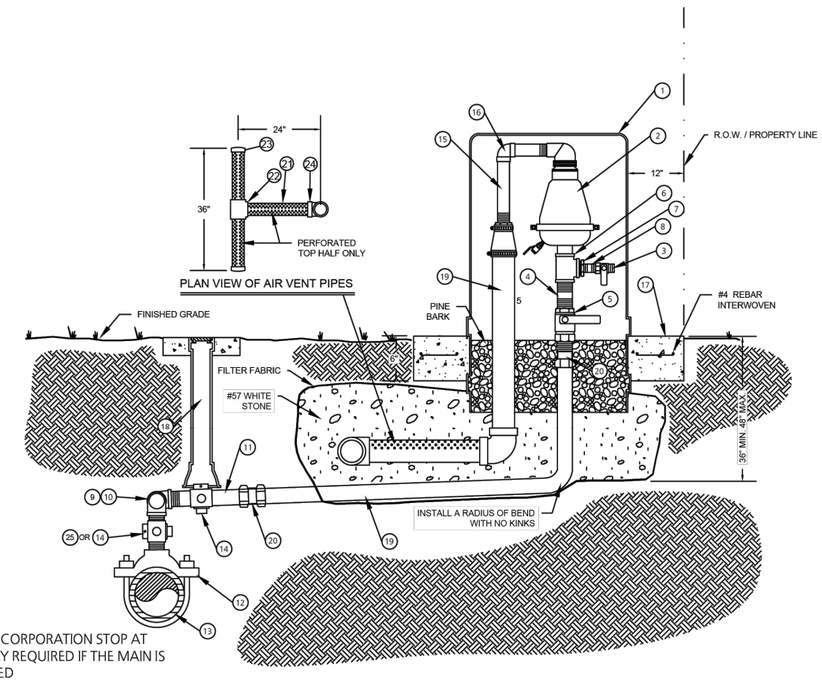

ITEM # 25 CORPORATION STOP AT MAIN ONLY REQUIRED IF THE MAIN IS HOT TAPPED

MATERIALS		
ITEM	QUANTITY	DESCRIPTION
1	1	ENCLOSURE (PURPLE IN COLOR)
2	1	AUTOMATIC COMBINATION AIR RELEASE/VACUUM RELEASE VALVE
3	1	1" CURB STOP - BRASS
4	1	2" x 4" NIPPLE - BRASS
5	1	2" BALL VALVE - BRASS
6	1	2" TEE - BRASS
7	1	2" X 1" REDUCER - BRASS
8	1	1" SHORT NIPPLE - BRASS
9	4	2" x 90° ELBOW - BRASS
10	2	2" SHORT NIPPLE - BRASS
11	2	2" PIPE - PVC SCH 80, LENGTH AS REQUIRED
12	1	DOUBLE STRAP TAPPING SADDLE EPOXY OR NYLON COATED WITH S.S. STRAPS
13	1	4" & LARGER PIPE, D.I., PVC (DR-18), HDPE
14	1	2" GATE VALVE
15	2	1-1/2" PIPE - PVC SCH 80, LENGTH AS REQUIRED
16	1	1-1/2" x 90° ELBOW - PVC SCH 80
17	1	REINFORCED CONCRETE MONOLITHIC COLLAR AROUND ENCLOSURE
18	1	VALVE BOIX
19	1	2" POLY TUBING
20	2	2" COMPRESSION FITTING
21	1	3" PIPE, PVC, LENGTH AS SHOWN, PERFORATED TOP HALF ONLY
22	1	3" TEE, PVC
23	1	3" CAP PVC
24	1	3" X 90° ELBOW, PVC
25	1	2" CORP STOP - BRASS

DATE: 11/01/2011

DRAWN BY: DEC

APPROVED BY: TGD

RECLAIMED WATER AUTOMATIC COMBINATION AIR RELEASE/VACUUM RELEASE VALVE

CHARLOTTE COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN CCU APPROVAL.

RW-06

ID: RW-06-ARV-OS.dwg

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REVISIONS			
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DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
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KREG E. MAHEU, P.E.
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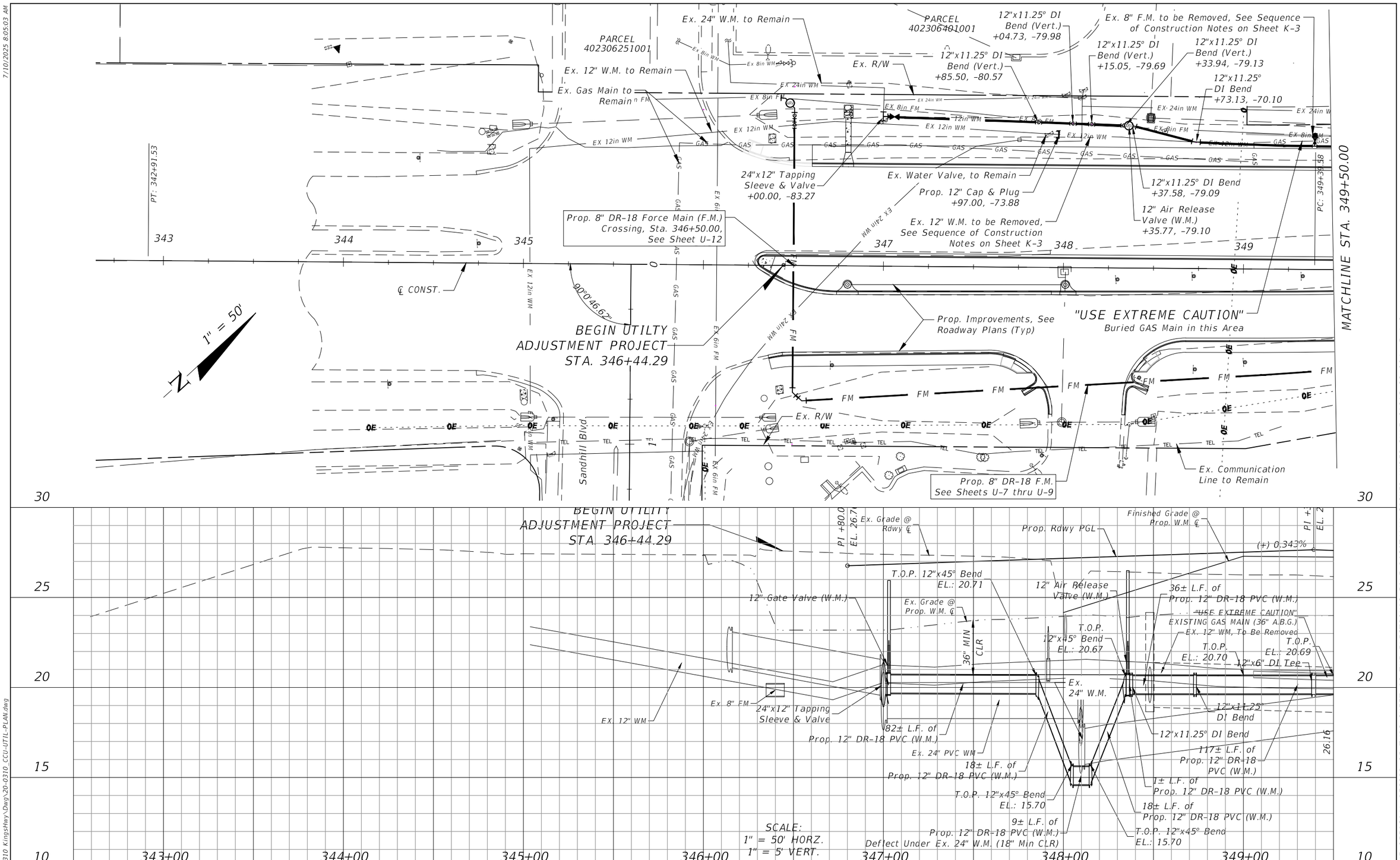
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CCU RECLAIMED WATER DETAIL

SHEET NO. D-4



REVISIONS			
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VENICE, FL. 34292
PHONE: 941-412-1293
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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

WATER MAIN PLAN AND PROFILE (1)
BOP TO STA 349+50.00

SHEET NO. U-1

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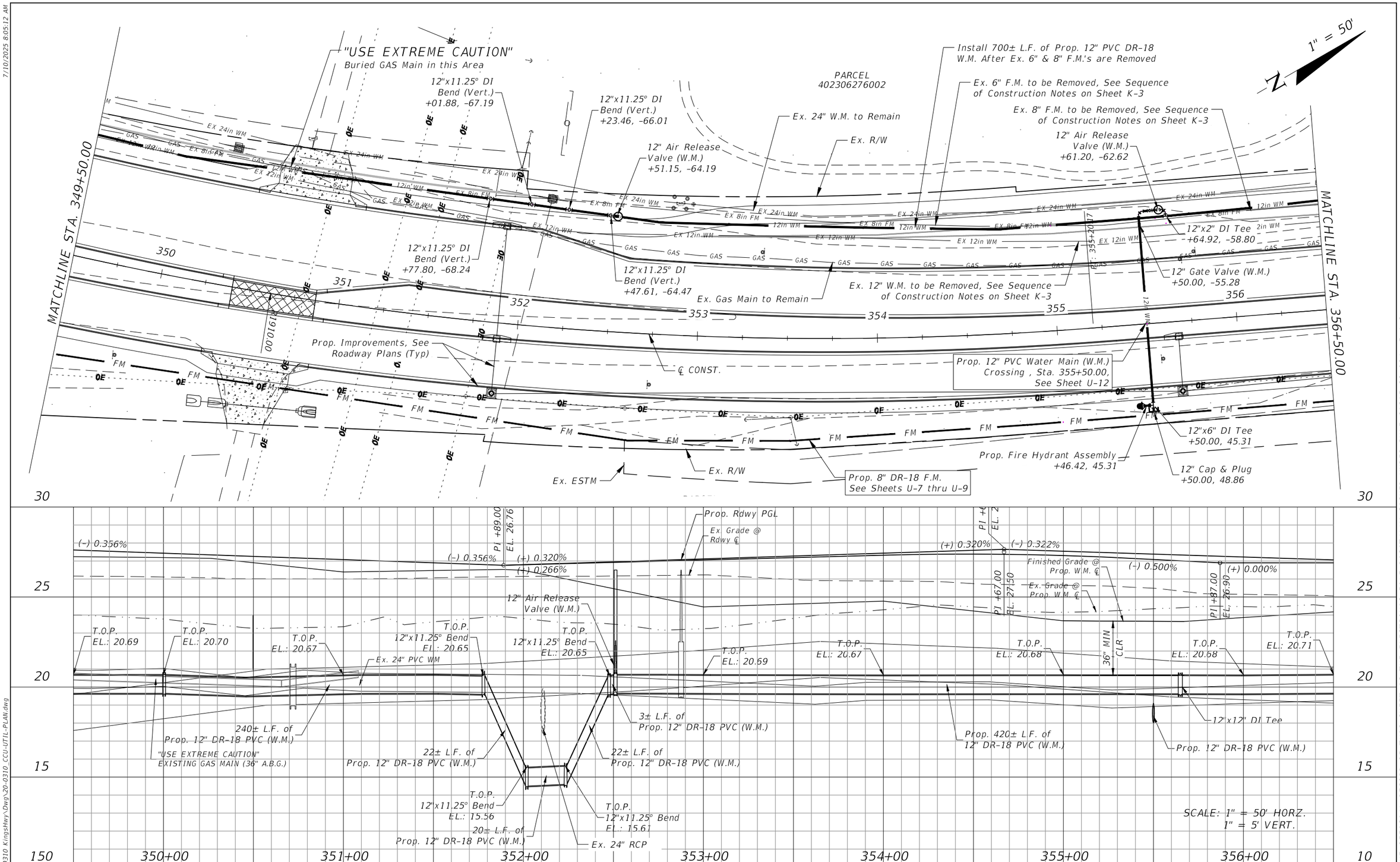

REVISIONS			
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DMK ASSOCIATES, INC.
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VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

WATER MAIN PLAN AND PROFILE (2)
STA 349+50.00 TO STA 356+50.00

SHEET NO. U-2

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED UNDER RULE 61G15-23.004, F.A.C.

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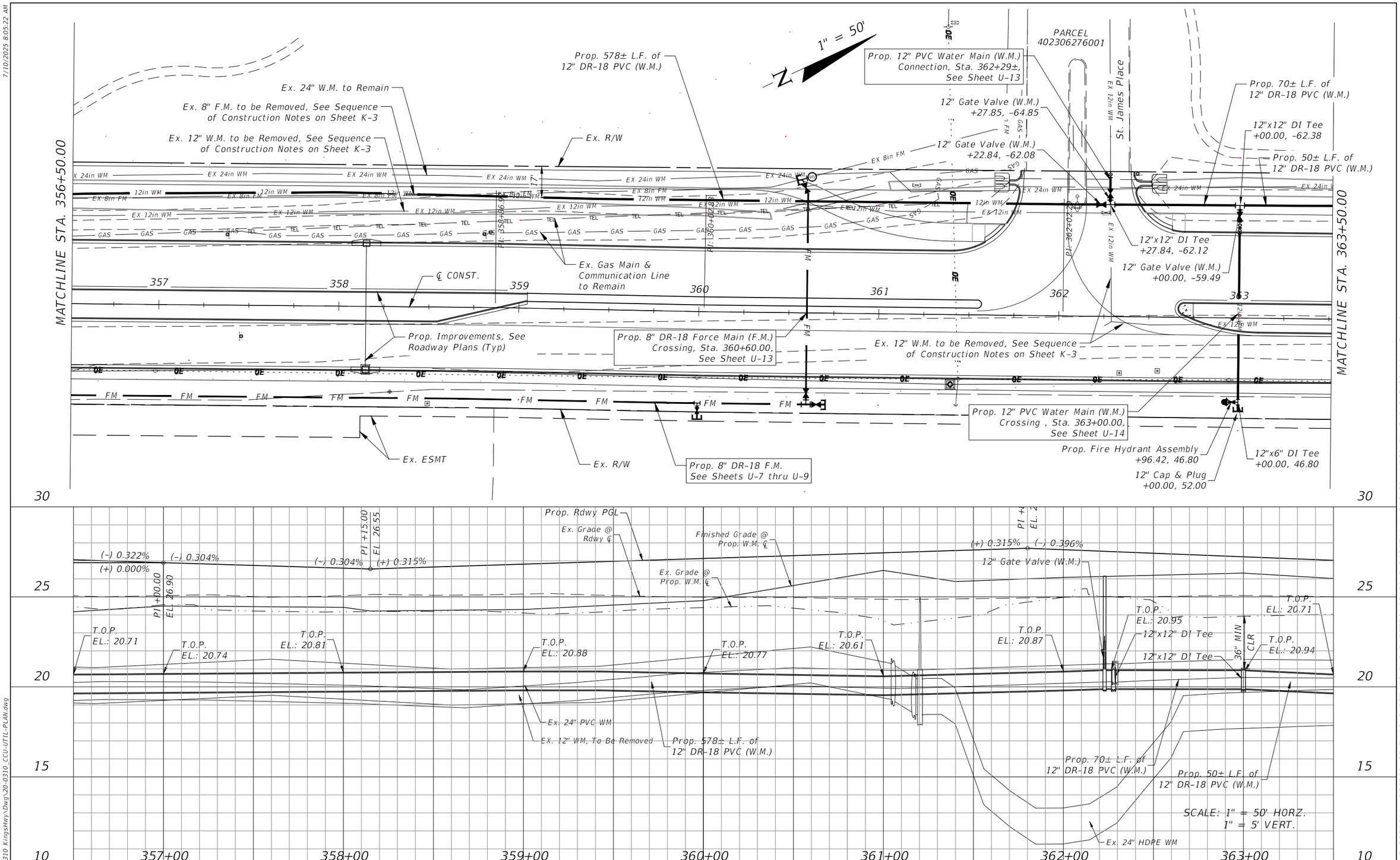

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

WATER MAIN PLAN AND PROFILE (3)
STA 356+50.00 TO STA 363+50.00

SHEET NO. U-3

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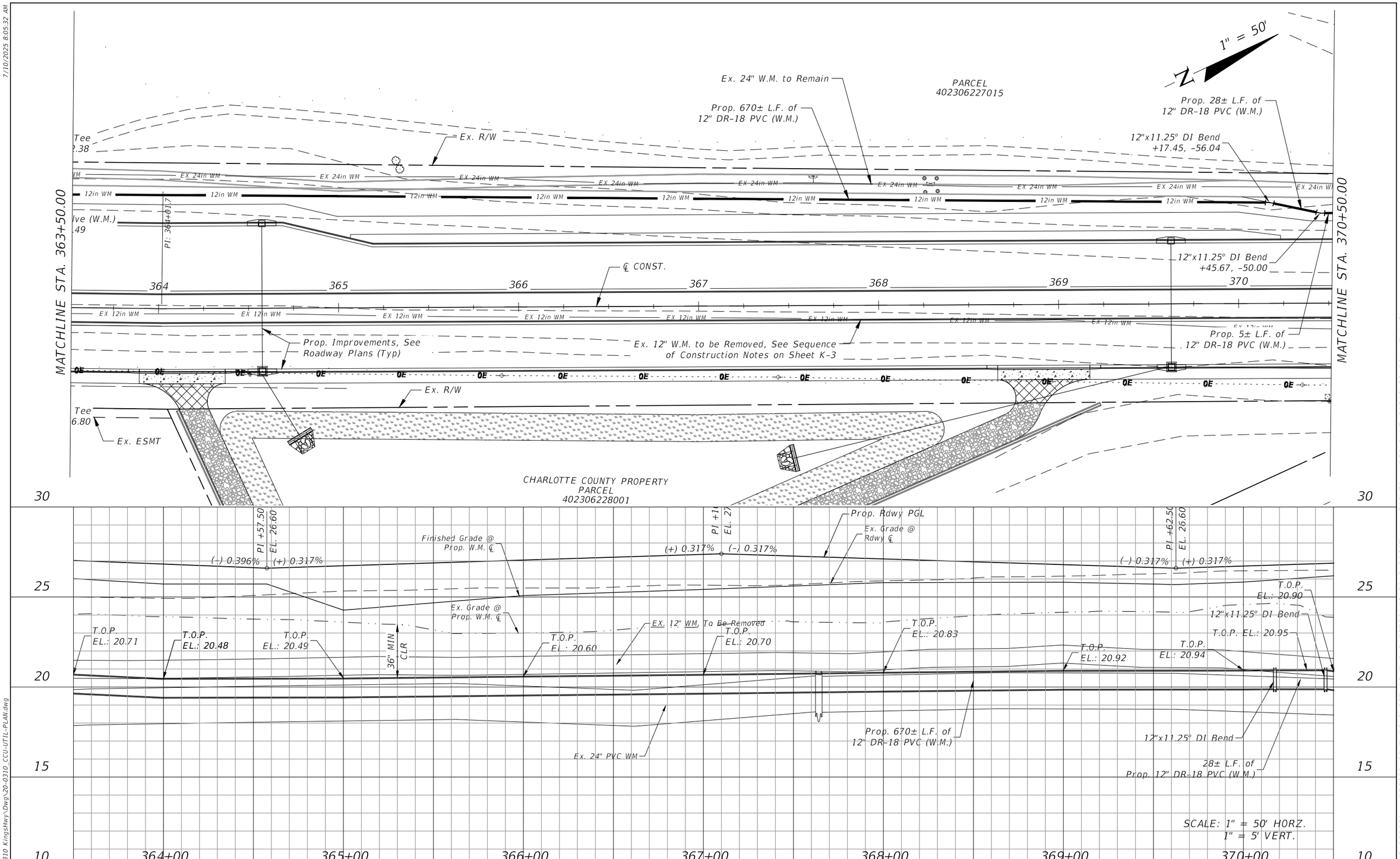

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DMK ASSOCIATES, INC.
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PHONE: 941-412-1293
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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

WATER MAIN PLAN AND PROFILE (4)
STA 363+50.00 TO STA 370+50.00

SHEET NO.
U-4

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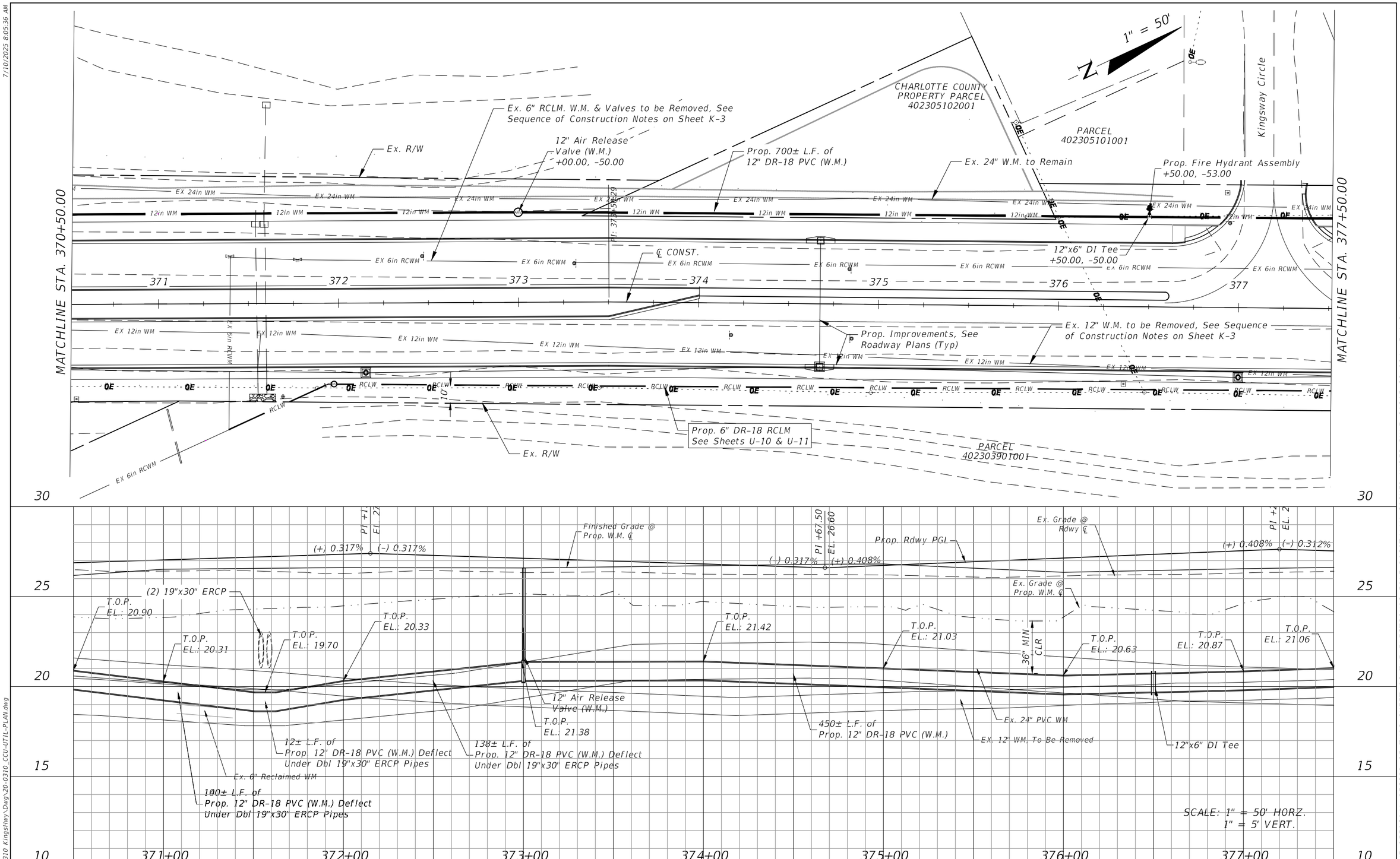

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DMK ASSOCIATES, INC.
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VENICE, FL. 34292
PHONE: 941-412-1293
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KREG E. MAHEU, P.E.
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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

WATER MAIN PLAN AND PROFILE (5)
STA 370+50.00 TO STA 377+50.00

SHEET NO. U-5

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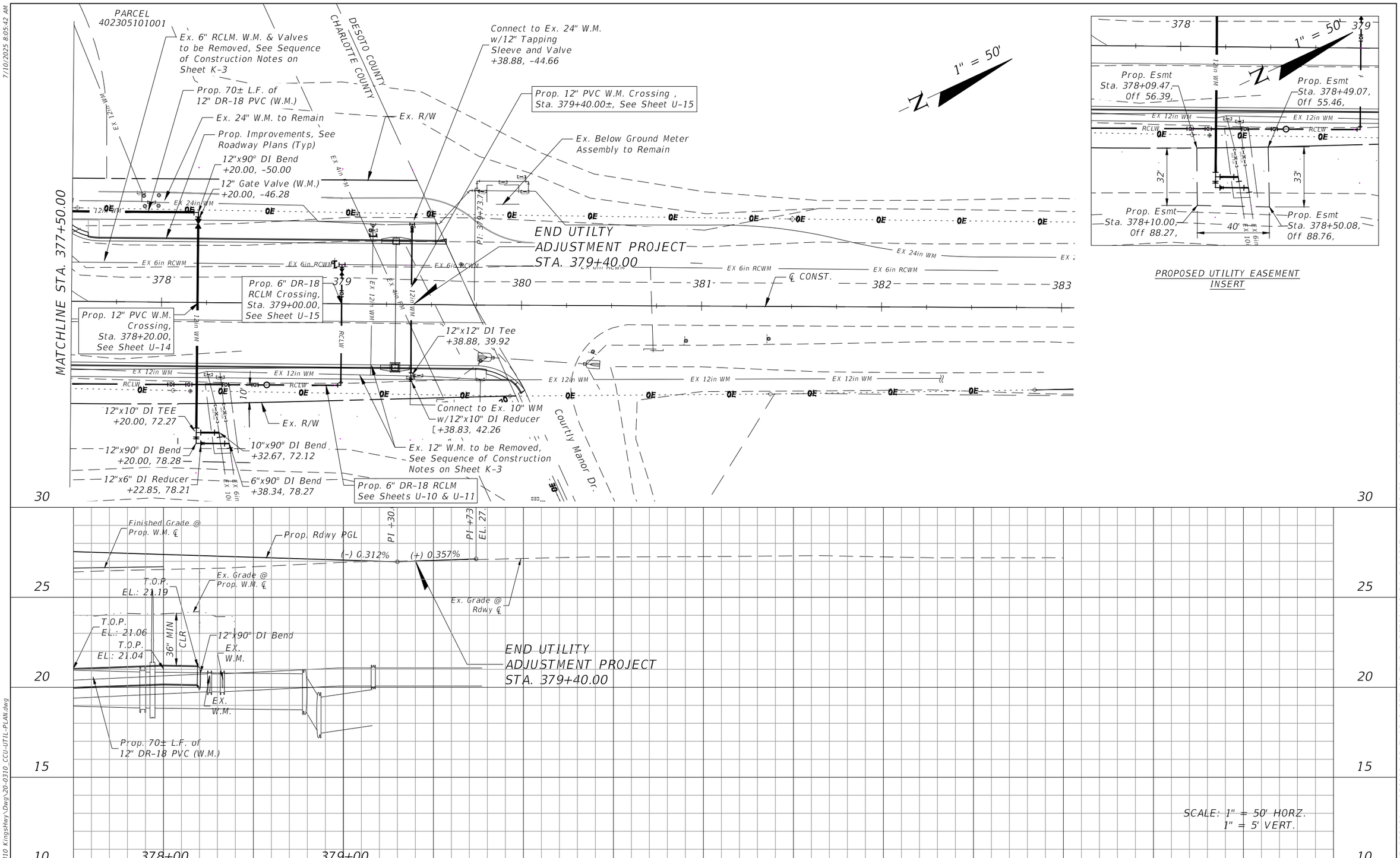

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DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
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PHONE: 941-412-1293
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P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES		
ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

WATER MAIN PLAN AND PROFILE (6)
STA 377+50.00 TO EOP

SHEET NO. U-6

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED UNDER RULE 61G15-23.004, F.A.C.

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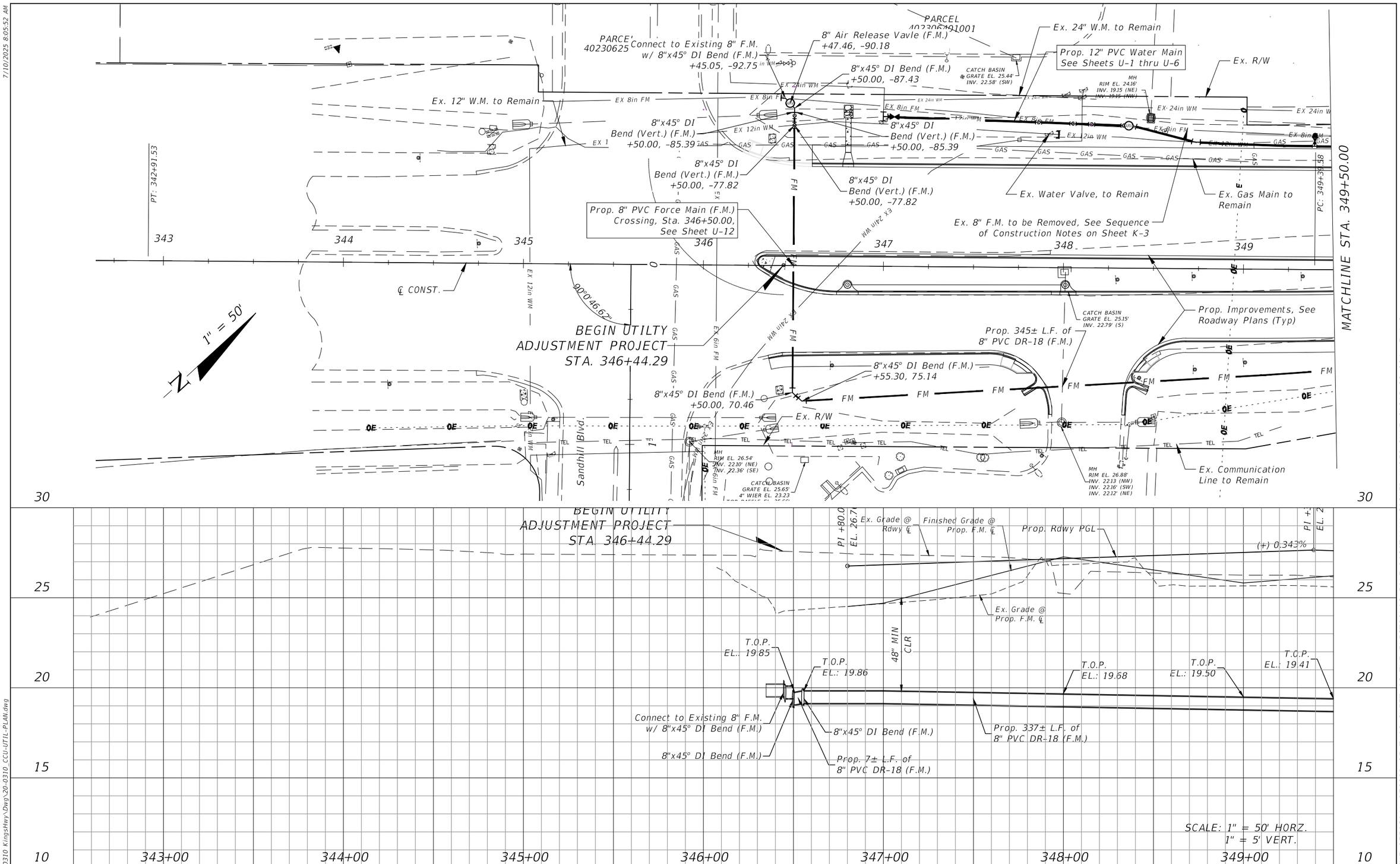

REVISIONS			
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DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

FORCE MAIN PLAN AND PROFILE (1) BOP TO STA 349+50.00

SHEET NO. U-7

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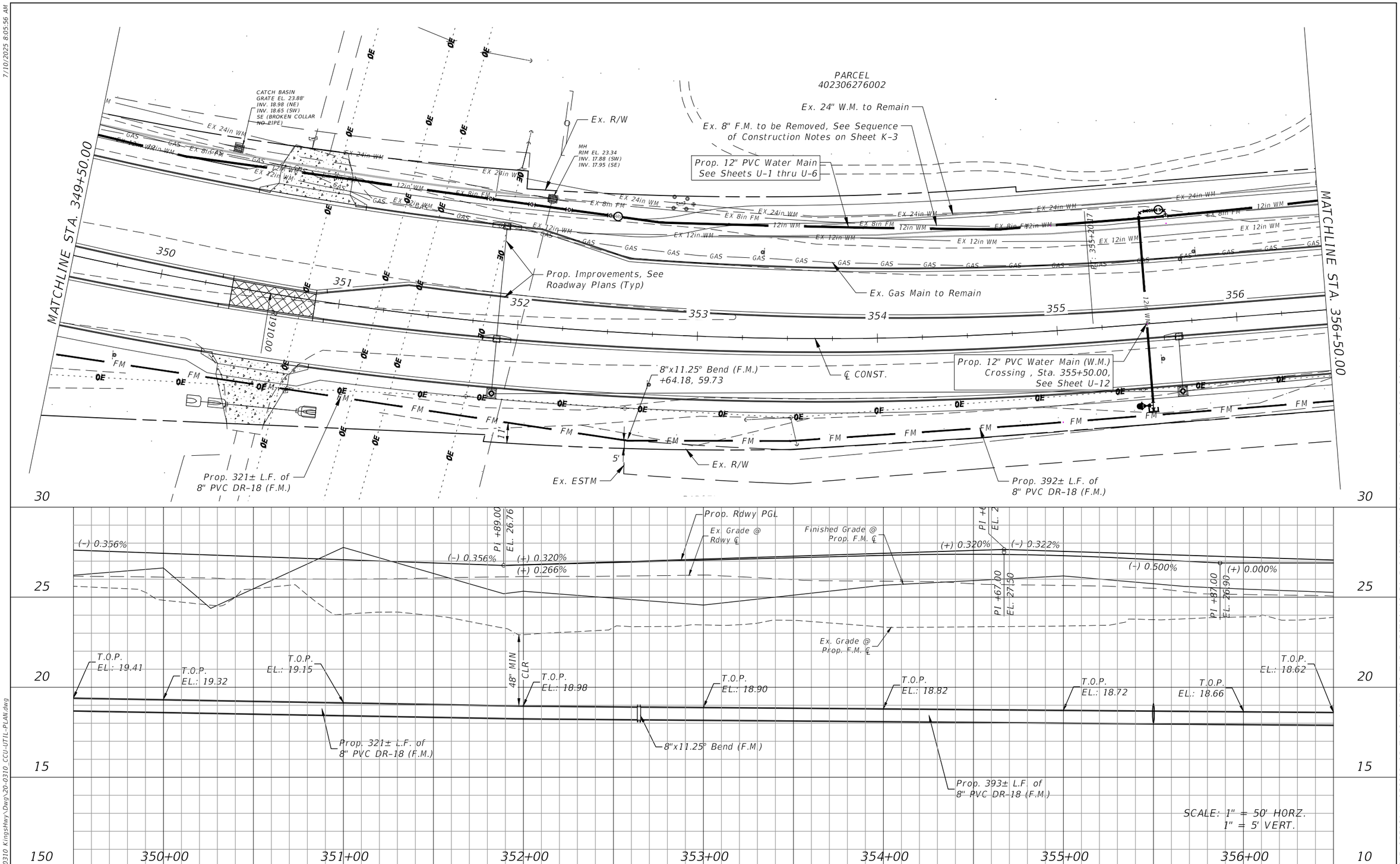

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

FORCE MAIN PLAN AND PROFILE (2)
STA 349+50.00 TO STA 356+50.00

SHEET NO. U-8

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED UNDER RULE 61G15-23.004, F.A.C.

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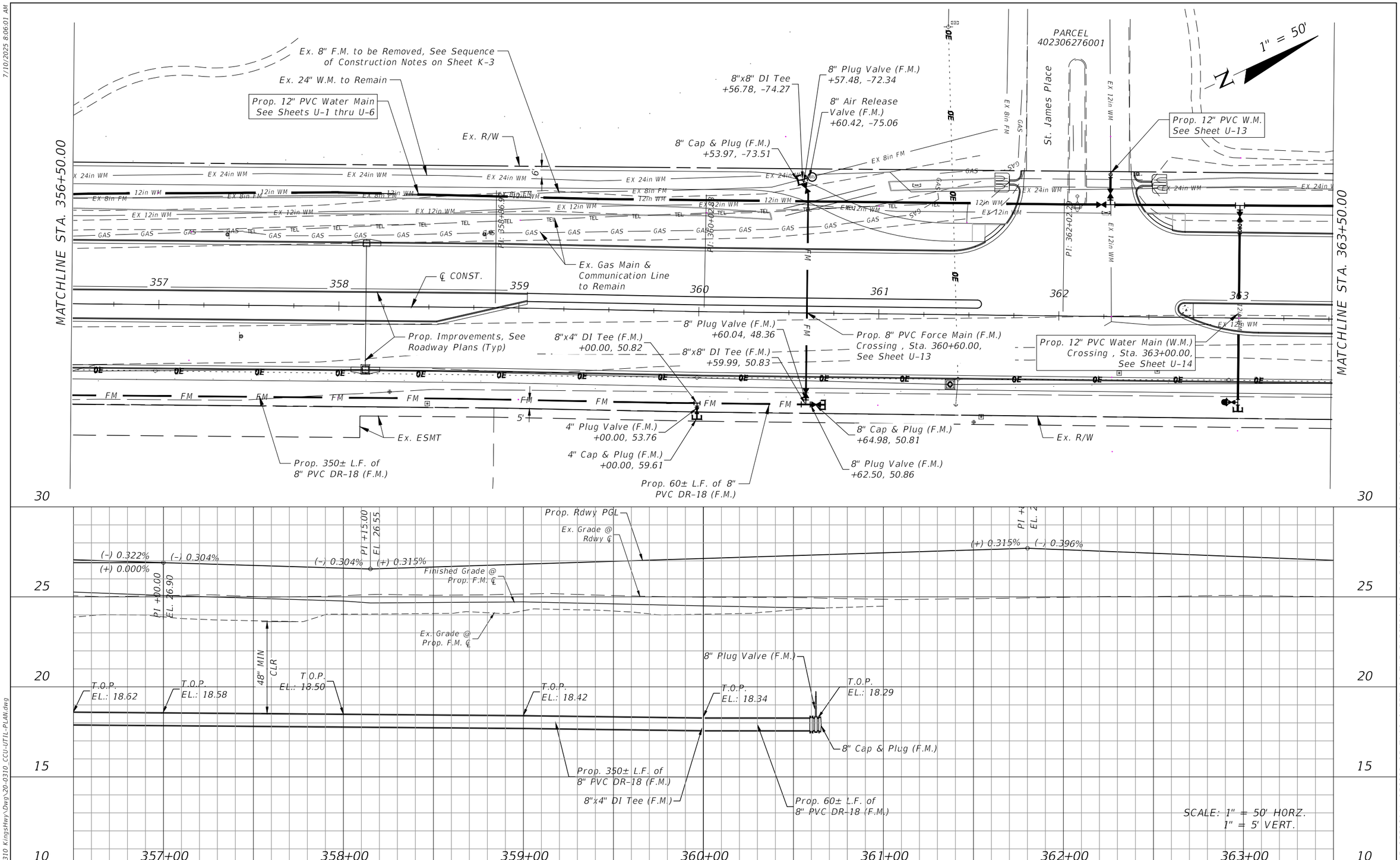

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES		
ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

FORCE MAIN PLAN AND PROFILE (3)
STA 356+50.00 TO STA 363+50.00

SHEET NO. U-9

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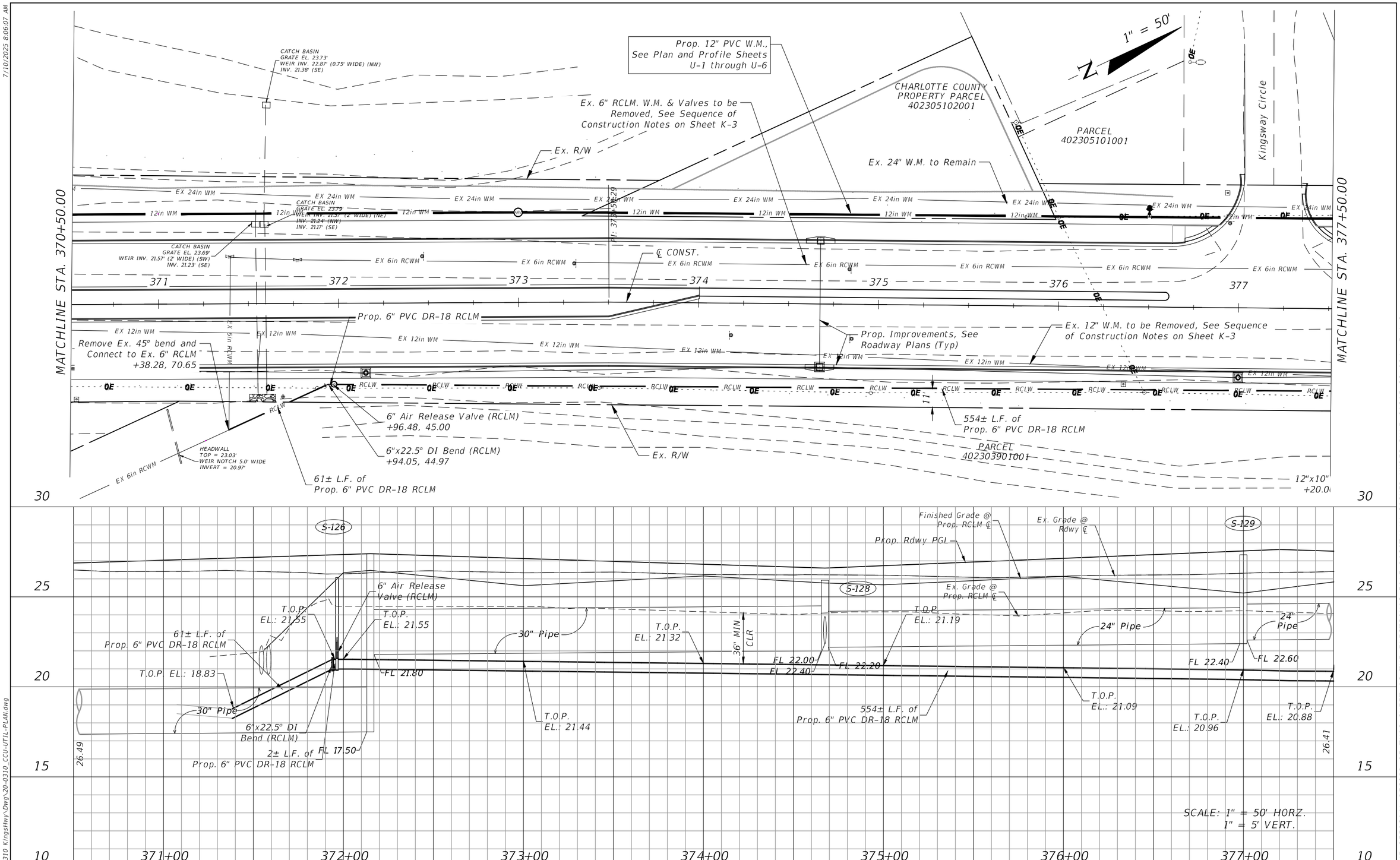

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

RECLAIM MAIN PLAN AND PROFILE (1)
STA 370+50.00 TO STA 377+50.00

SHEET NO. U-10

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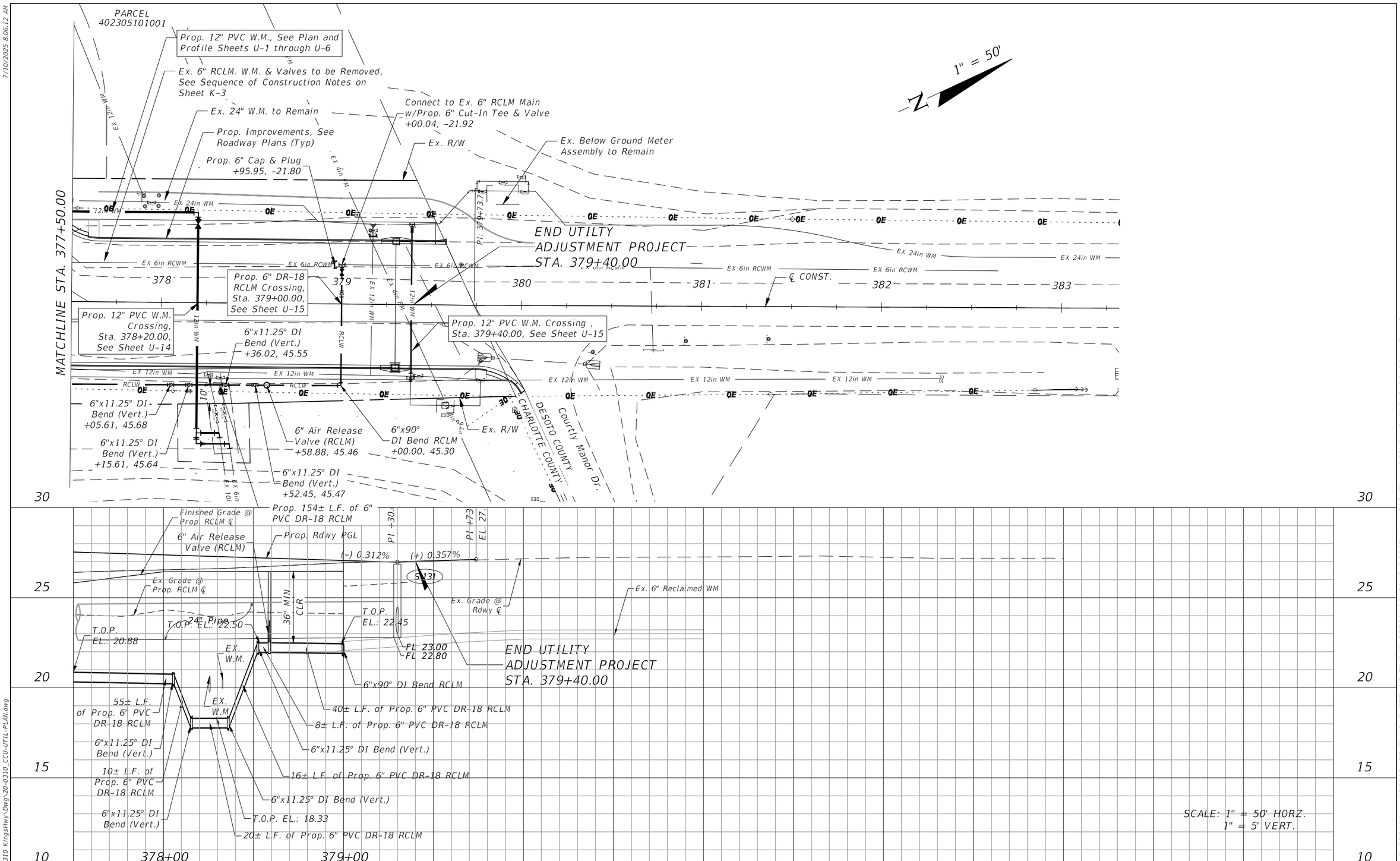

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
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PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

RECLAIM MAIN PLAN AND PROFILE (2)
STA 377+50.00 TO EOP

SHEET NO. U-11

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED UNDER RULE 61G15-23.004, F.A.C.

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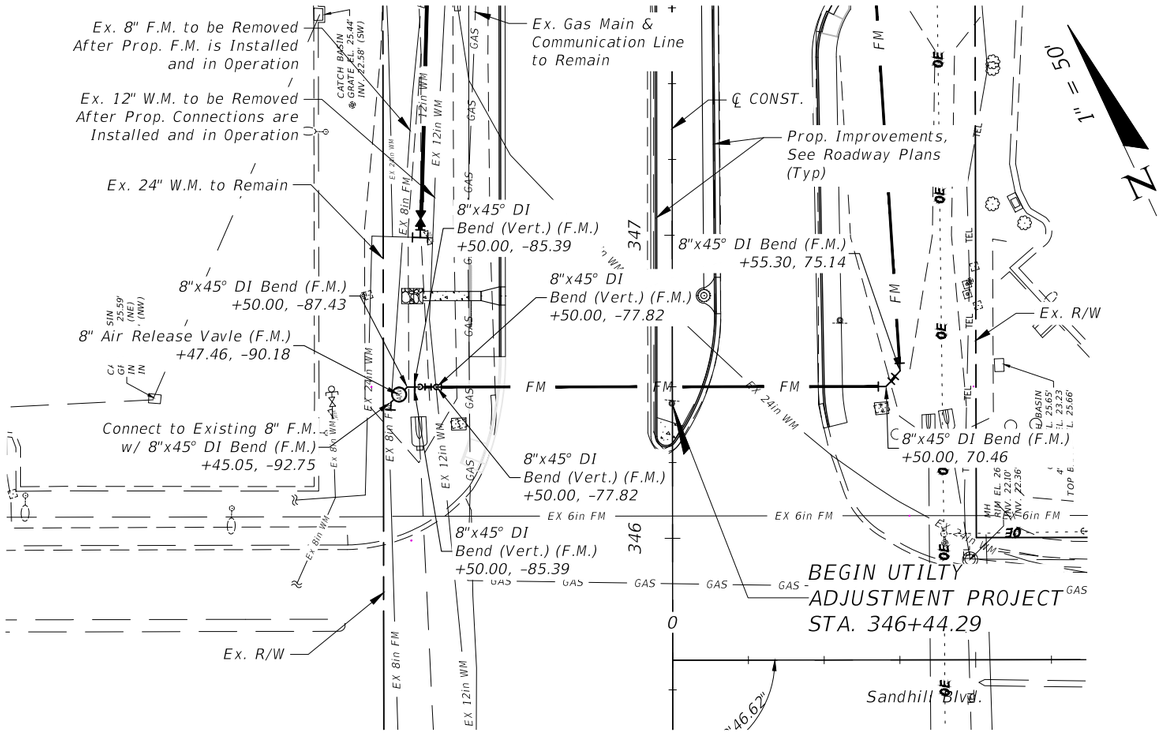
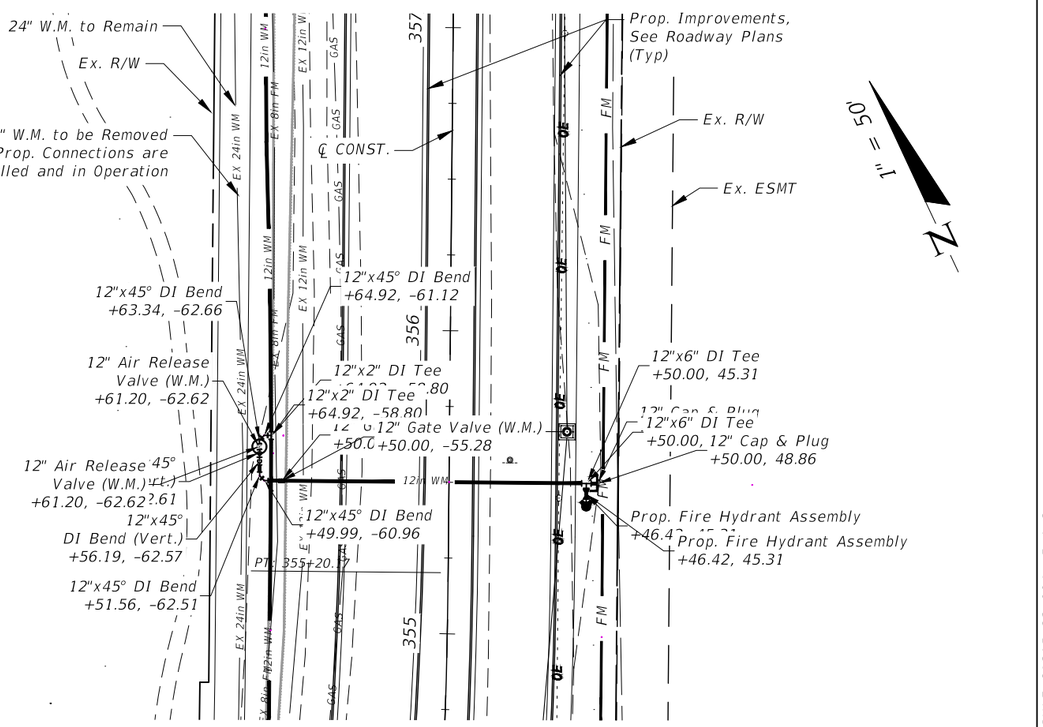
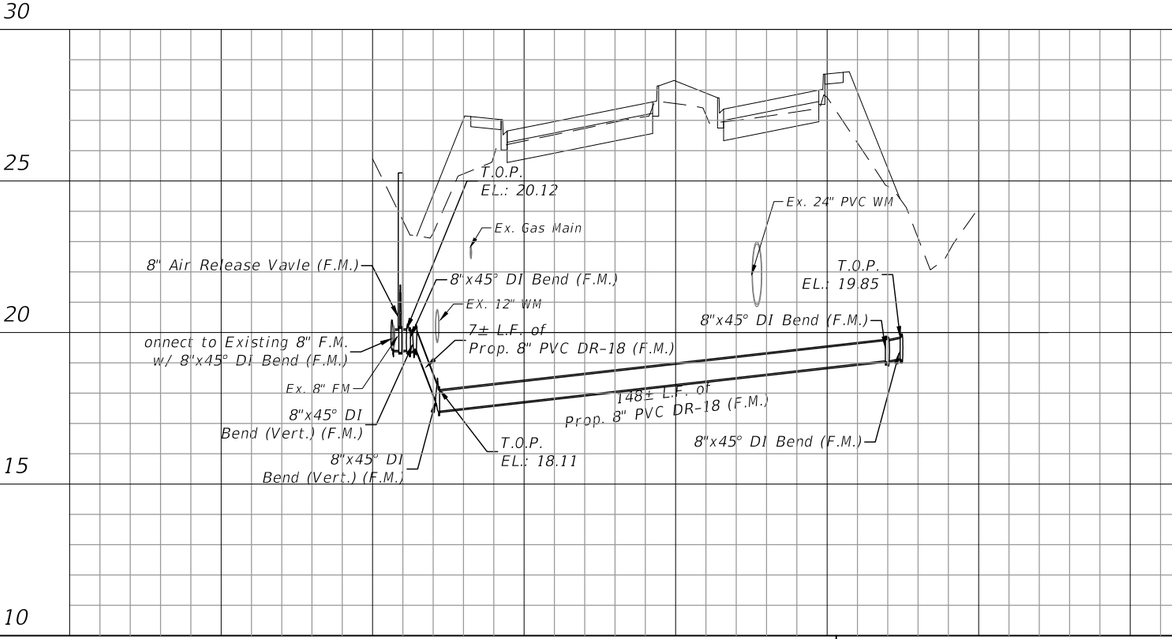
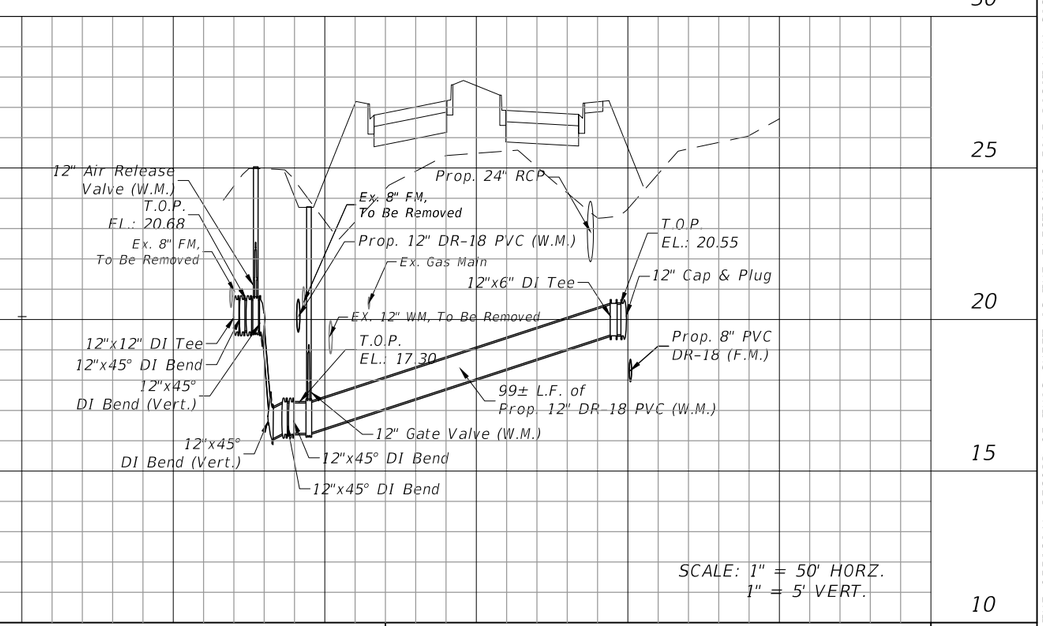


8" FORCE MAIN CROSSING
STA. 346+50.00



12" WATERMAIN CROSSING
STA. 355+50.00





REVISIONS			
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DMK ASSOCIATES, INC.
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PHONE: 941-412-1293
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KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

ROAD CROSSING UTILITY PLAN & PROFILE (1)

SHEET NO. U-12

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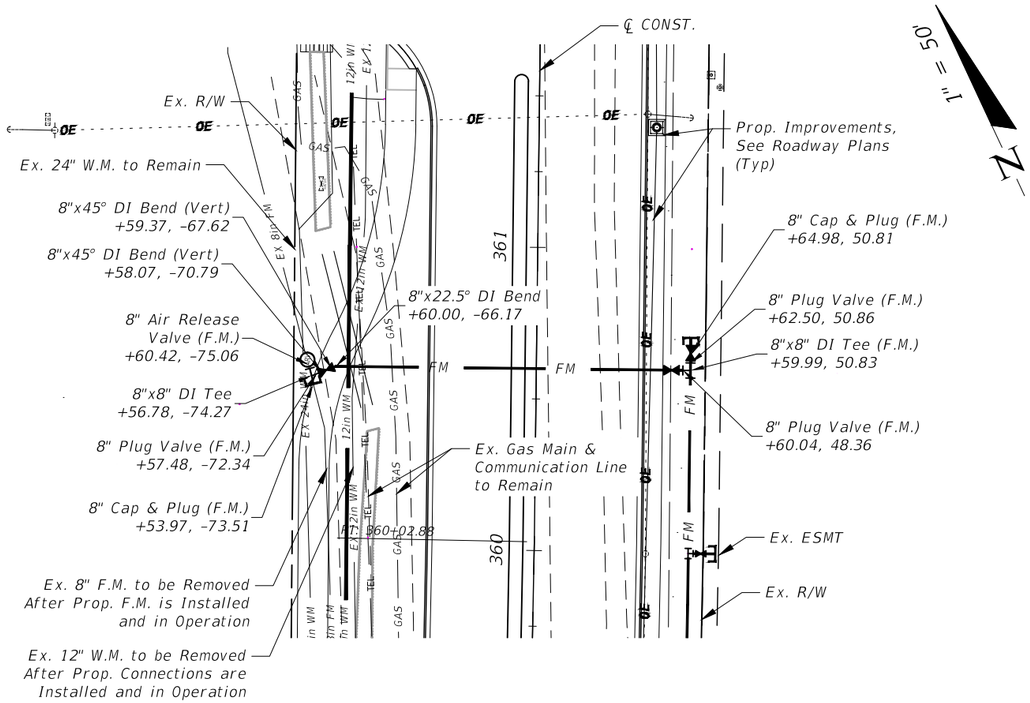
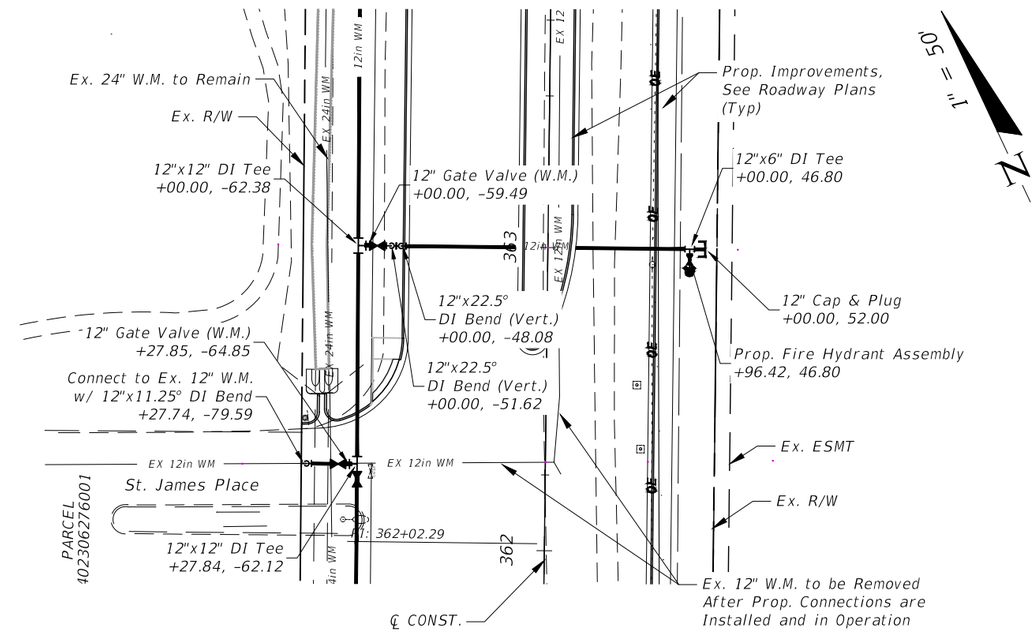
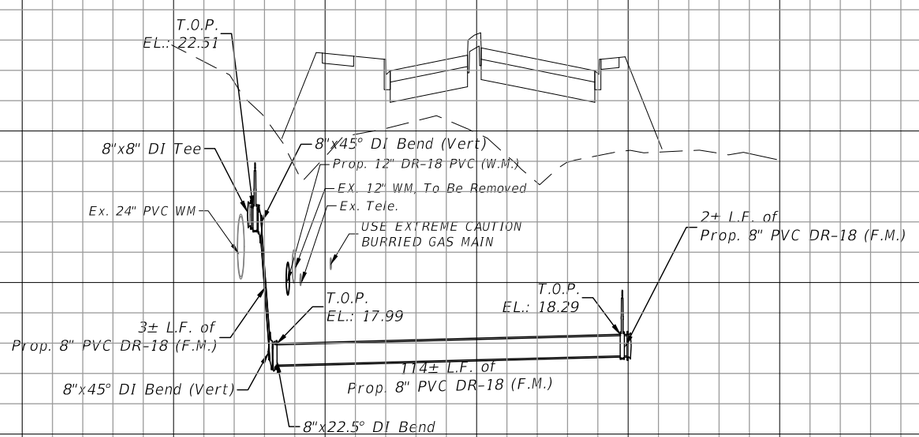
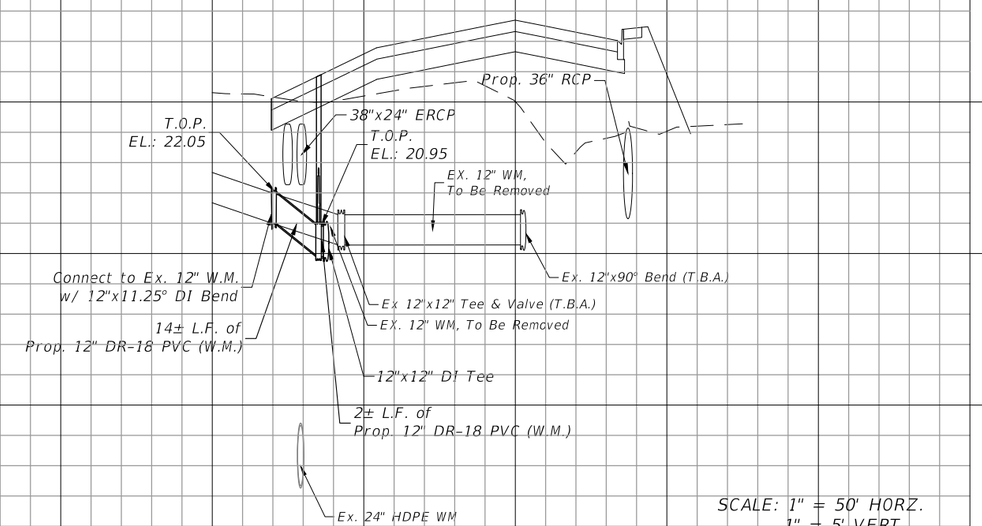


8" FORCE MAIN CROSSING
STA. 360+60.00



12" WATERMAIN CROSSING
STA. 362+29±





SCALE: 1" = 50' HORZ.
1" = 5' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

ROAD CROSSING UTILITY PLAN & PROFILE (2)

SHEET NO. U-13

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED UNDER RULE 61G15-23.004, F.A.C.

F:\Projects\2022\22-0310 KingsHwy\Dwg\20-0310_CCU-UTIL-PLAN.dwg

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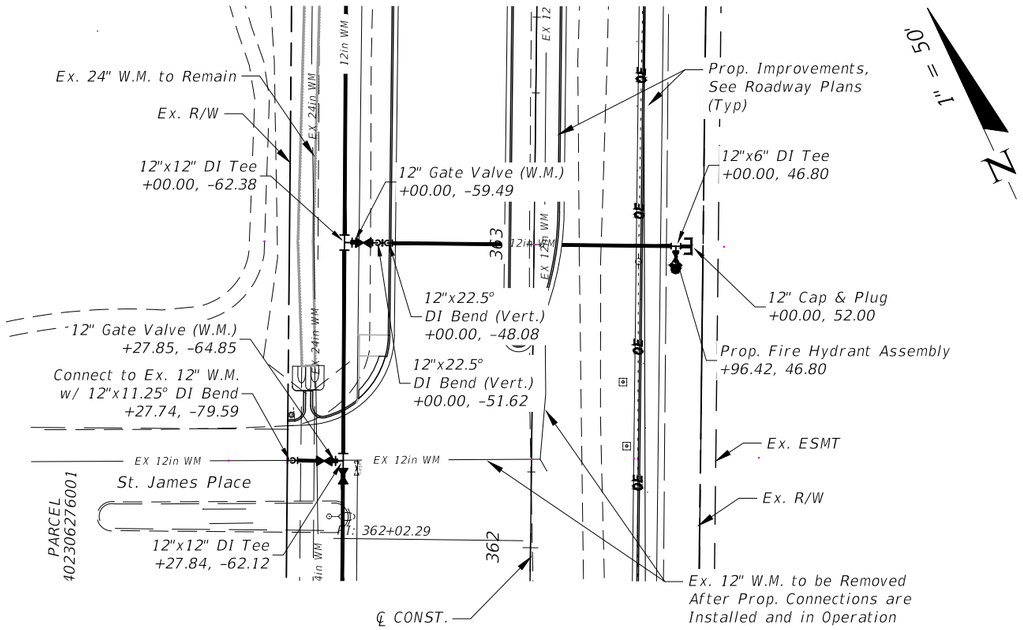
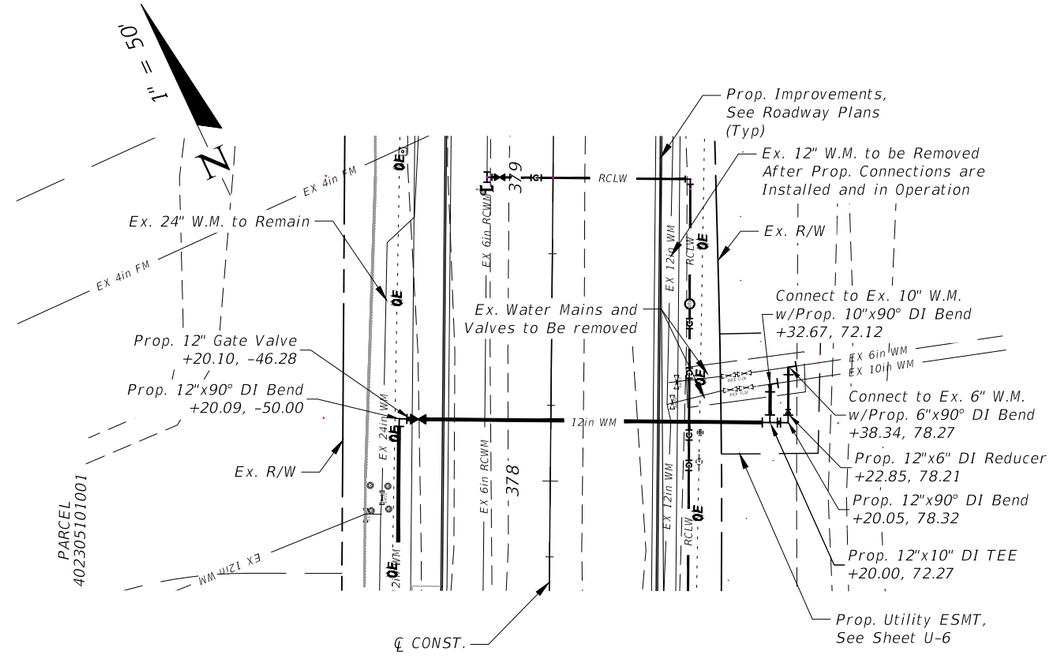
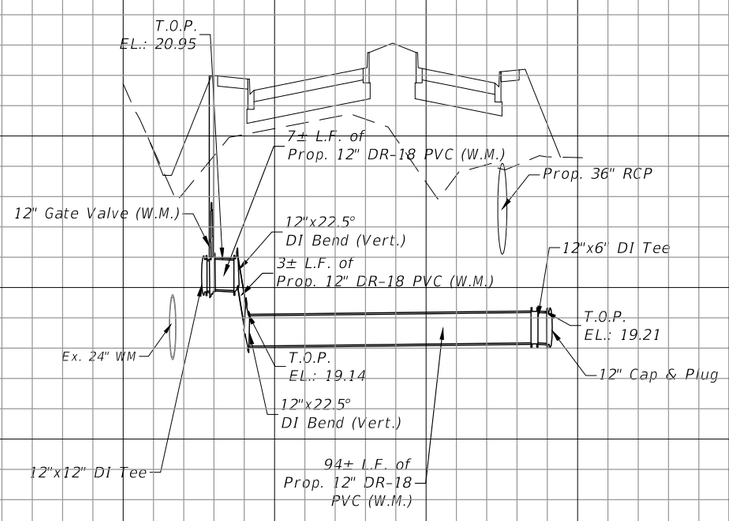
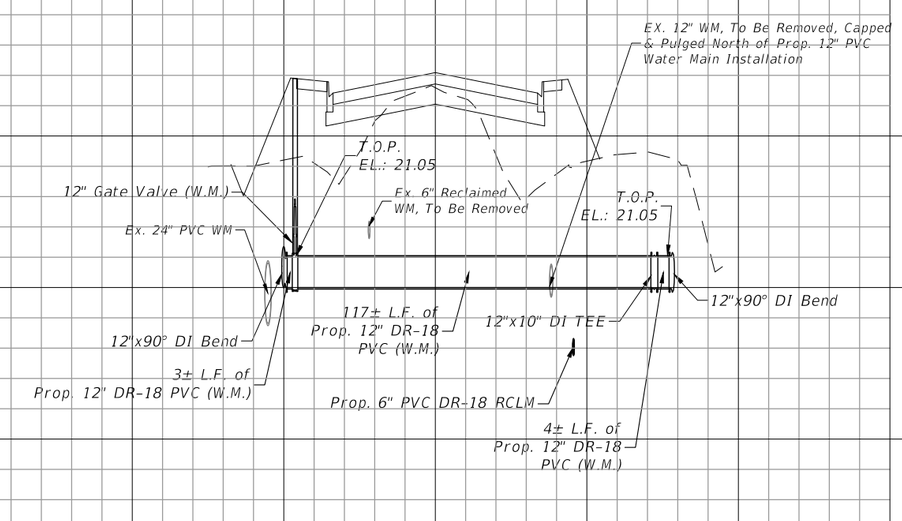


12" WATERMAIN CROSSING
STA. 363+00.00



12" WATER MAIN CROSSING
STA. 378+20.00





SCALE: 1" = 50' HORZ.
1" = 5' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
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P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

ROAD CROSSING UTILITY PLAN & PROFILE (3)

SHEET NO.
U-14

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED UNDER RULE 61G15-23.004, F.A.C.

F:\Projects\2022\22-0310 KingsHwy\Dwg\20-0310_CCU-UTIL-PLAN.dwg

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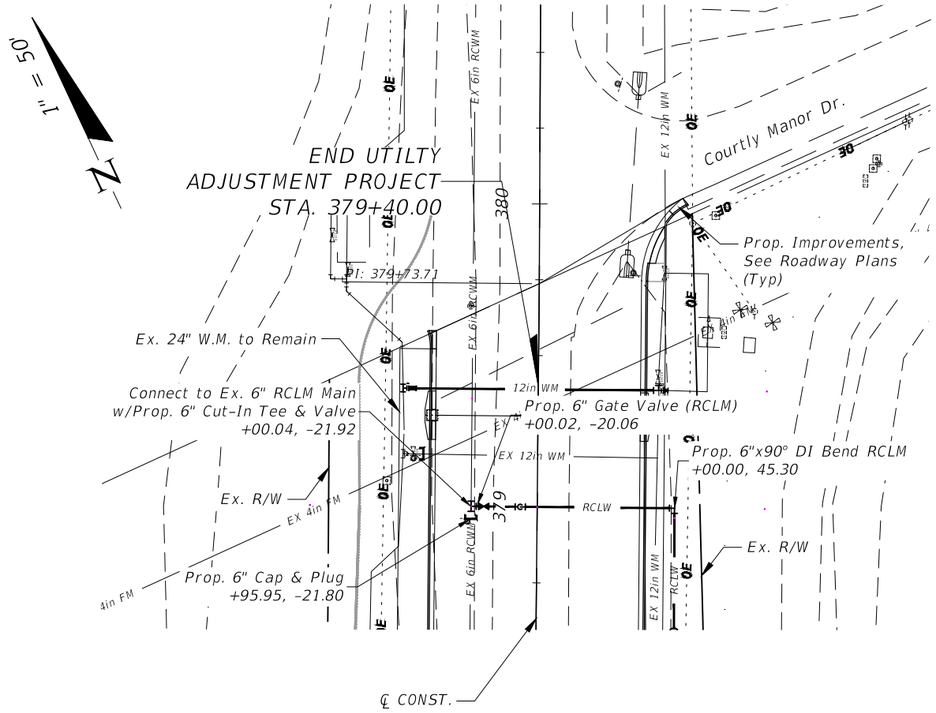
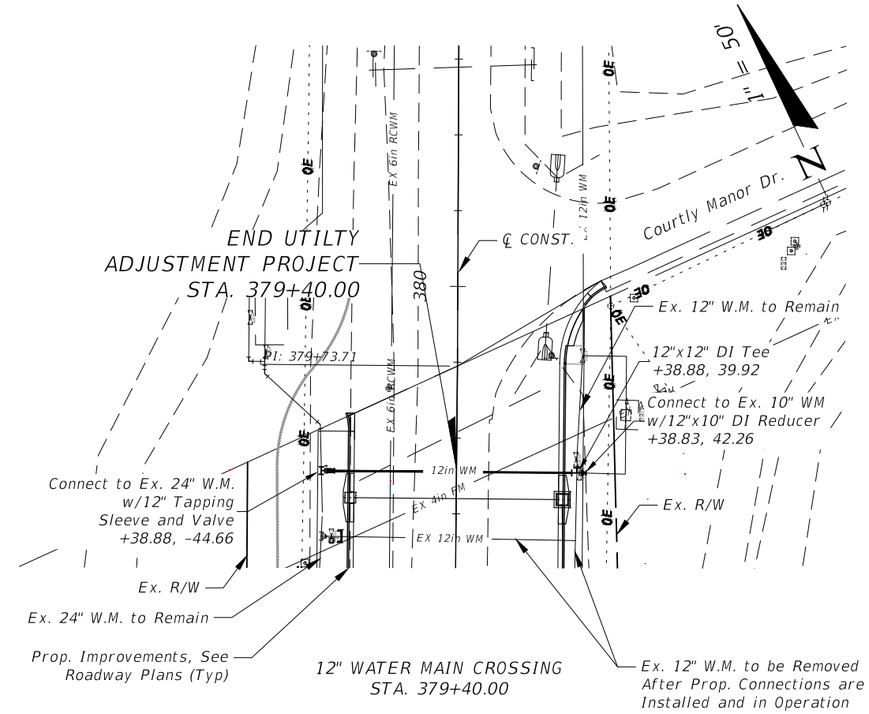
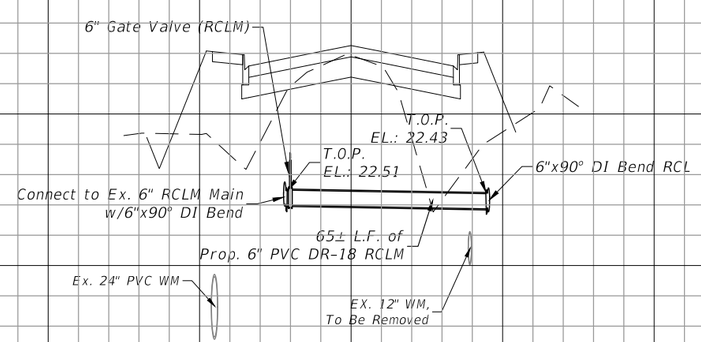
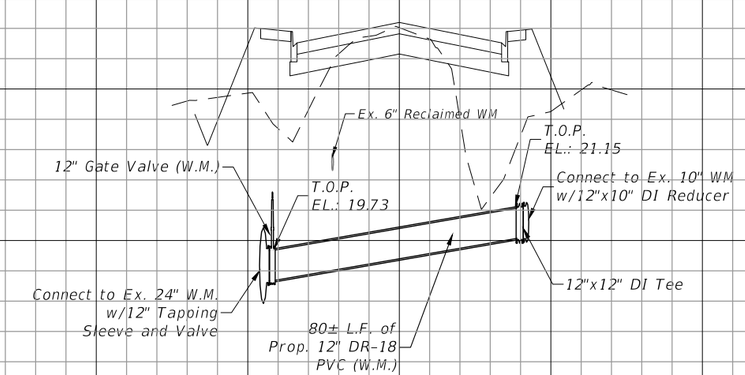


6" RECLAIMED MAIN CROSSING
STA. 379+00.00



12" WATER MAIN CROSSING
STA. 379+40.00





SCALE: 1" = 50' HORZ.
1" = 5' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CA No: 3943

CHARLOTTE COUNTY UTILITIES

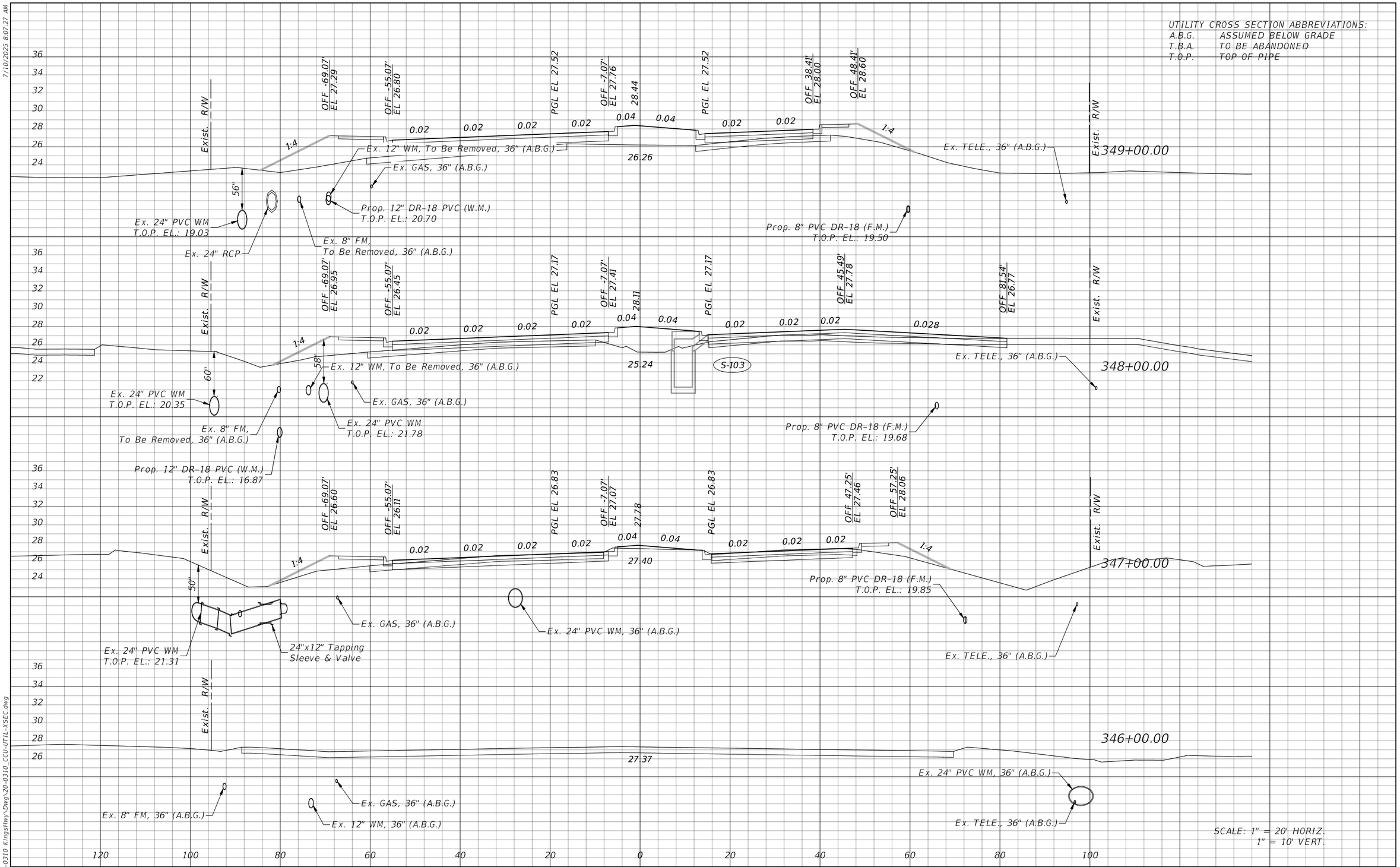
ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

ROAD CROSSING UTILITY PLAN & PROFILE (4)

SHEET NO.
U-15

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED UNDER RULE 61G15-23.004, F.A.C.

F:\Projects\2022\22-0310 KingsHwy\Dwg\20-0310_CCU-UTIL-PLAN.dwg



REVISIONS			
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PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (1)

SHEET NO. U-16

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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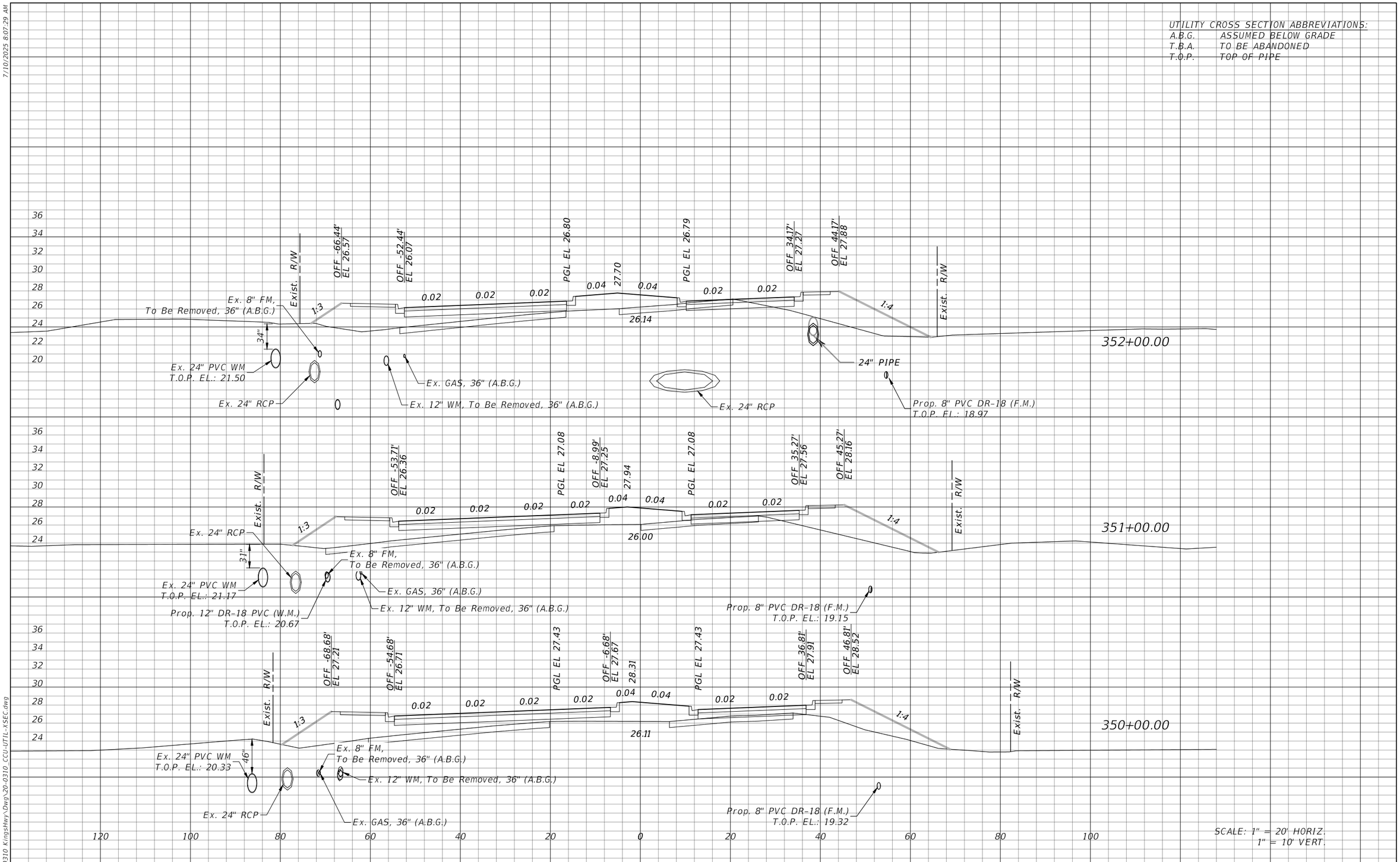

REVISIONS			
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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (2)

SHEET NO. U-17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

7/10/2025 8:07:29 AM
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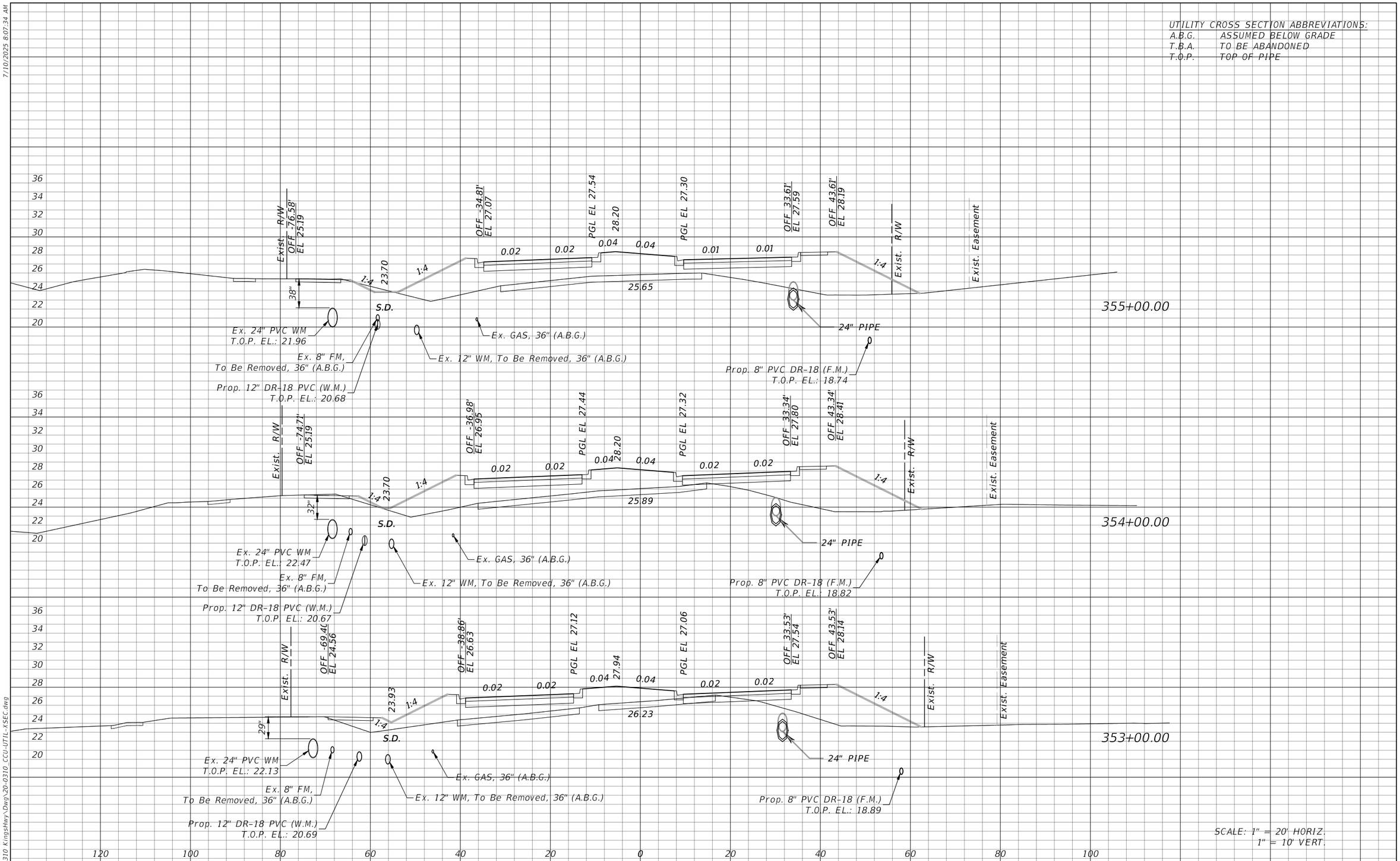

REVISIONS			
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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (3)

SHEET NO. U-18

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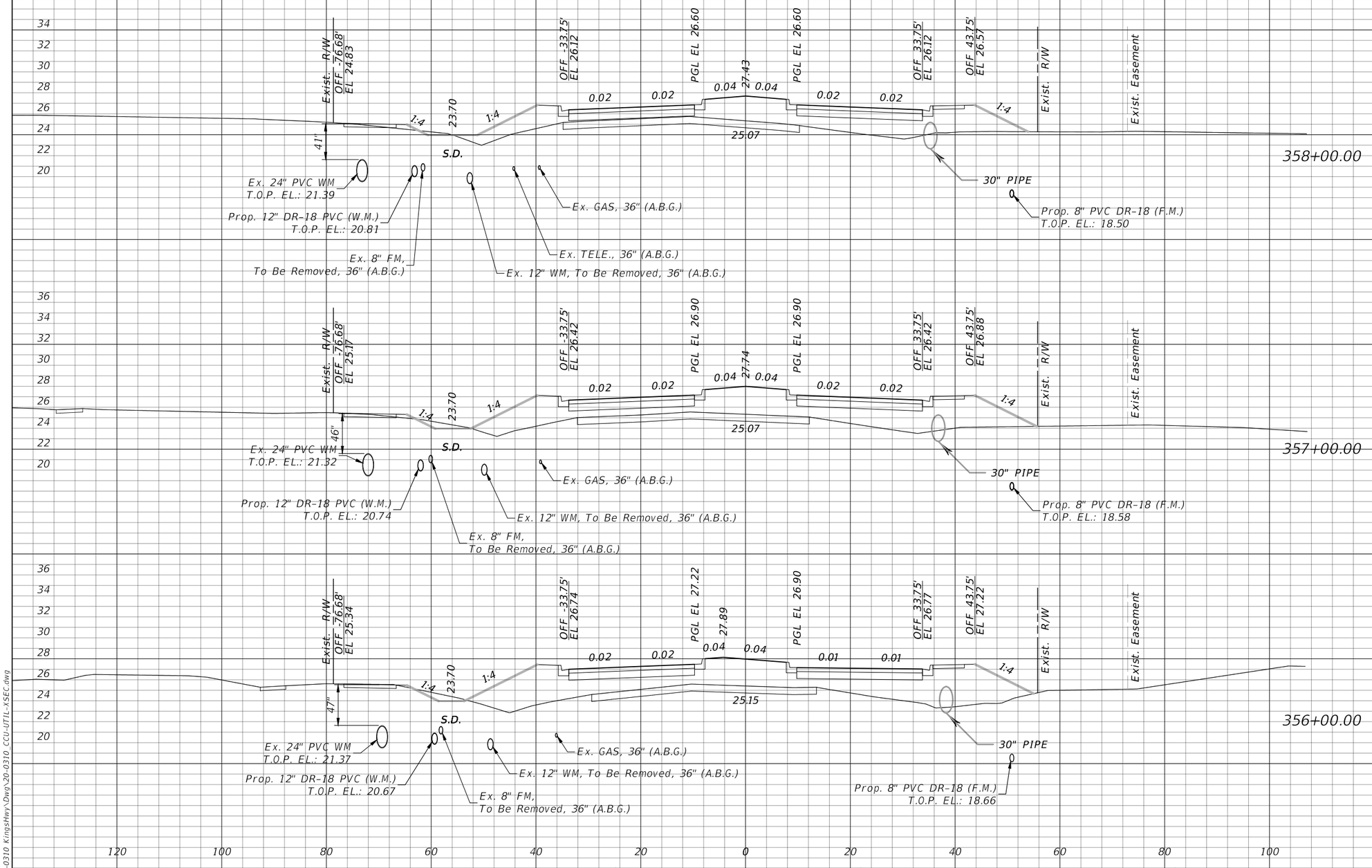
7/10/2025 8:07:39 AM

UTILITY CROSS SECTION ABBREVIATIONS:

A.B.G.	ASSUMED BELOW GRADE
T.B.A.	TO BE ABANDONED
T.O.P.	TOP OF PIPE



SCALE: 1" = 20' HORIZ.
1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (4)

SHEET NO.
U-19

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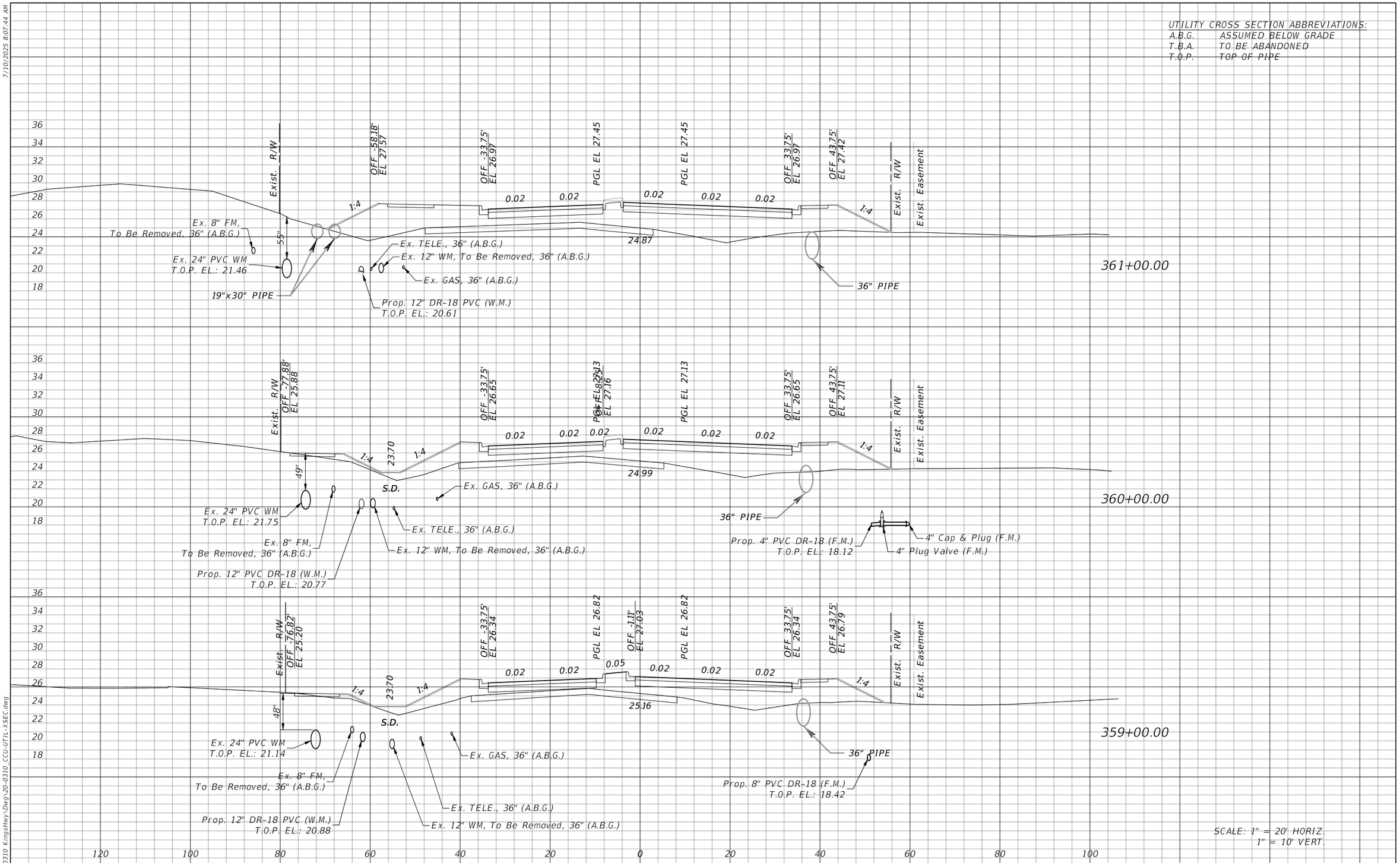

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405 COMMERCIAL CT, SUITE E
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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (5)

SHEET NO.

U-20

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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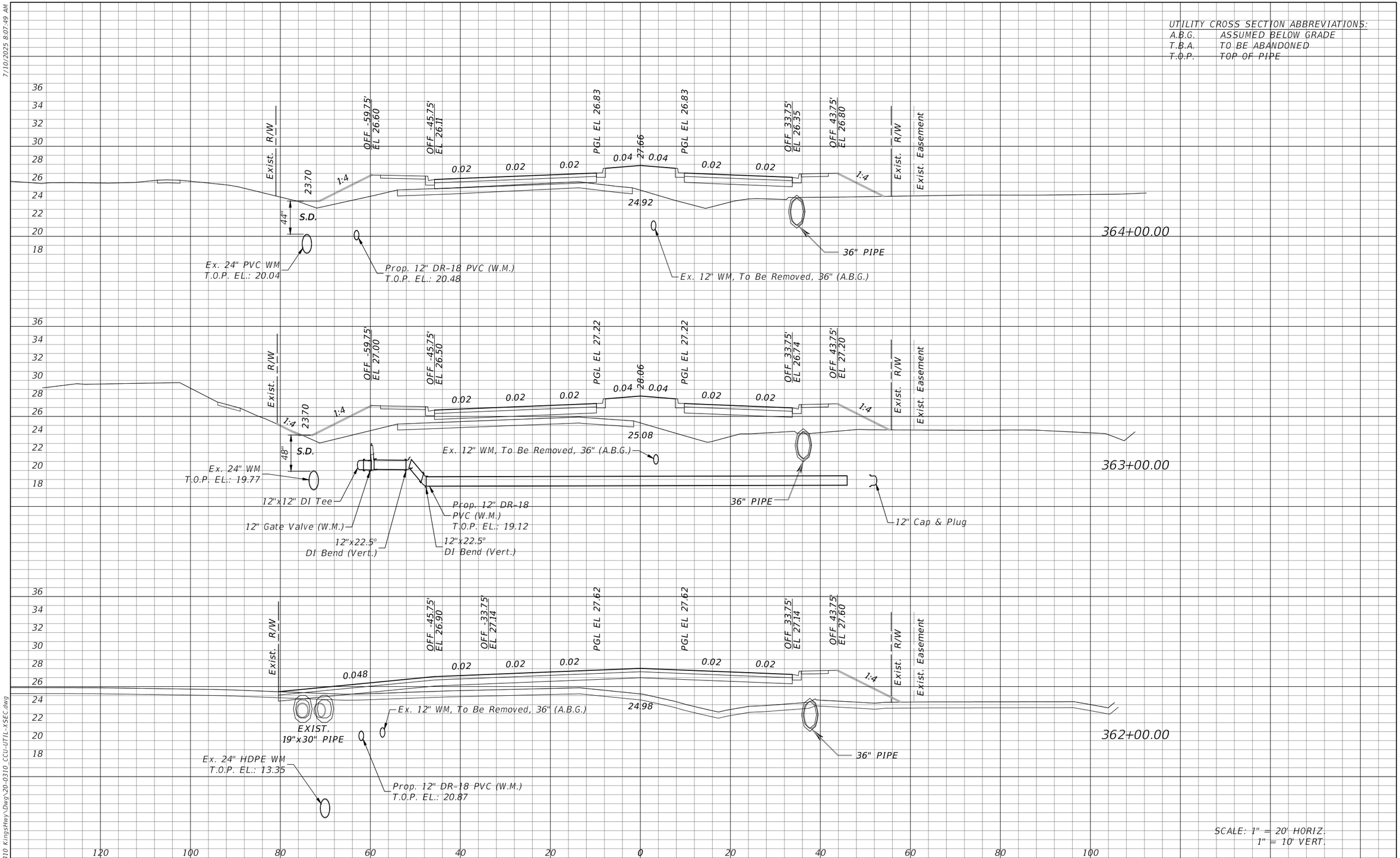

REVISIONS			
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DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

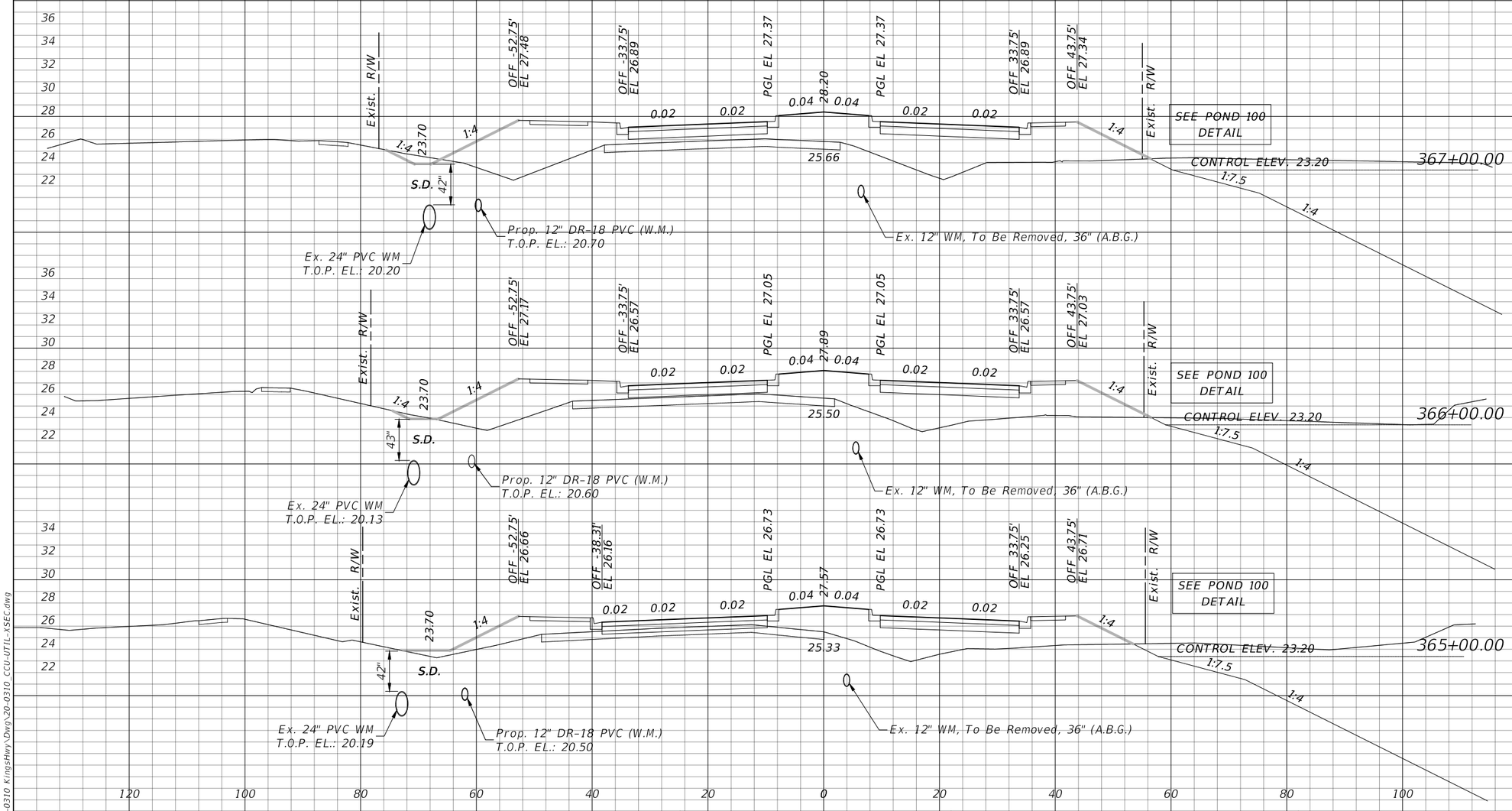
CROSS SECTION (6)

SHEET NO. U-21

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

7/10/2025 8:07:49 AM
F:\Projects\2022\22-0310 KingsHwy\Dwg\20-0310_CCU-UTIL-XSEC.dwg

UTILITY CROSS SECTION ABBREVIATIONS:
A.B.G. ASSUMED BELOW GRADE
T.B.A. TO BE ABANDONED
T.O.P. TOP OF PIPE



SCALE: 1" = 20' HORIZ.
1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
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KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (7)

SHEET NO.
U-22

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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7/10/2025 8:07:59 AM

UTILITY CROSS SECTION ABBREVIATIONS:
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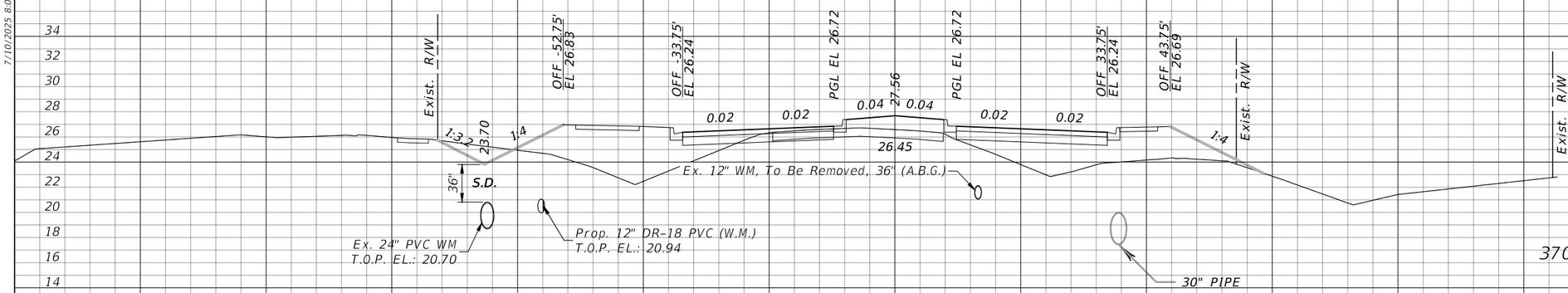
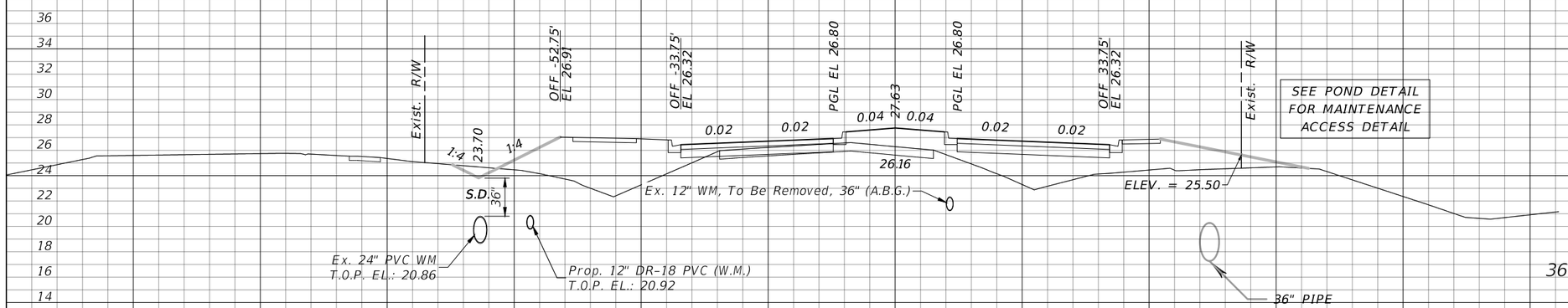
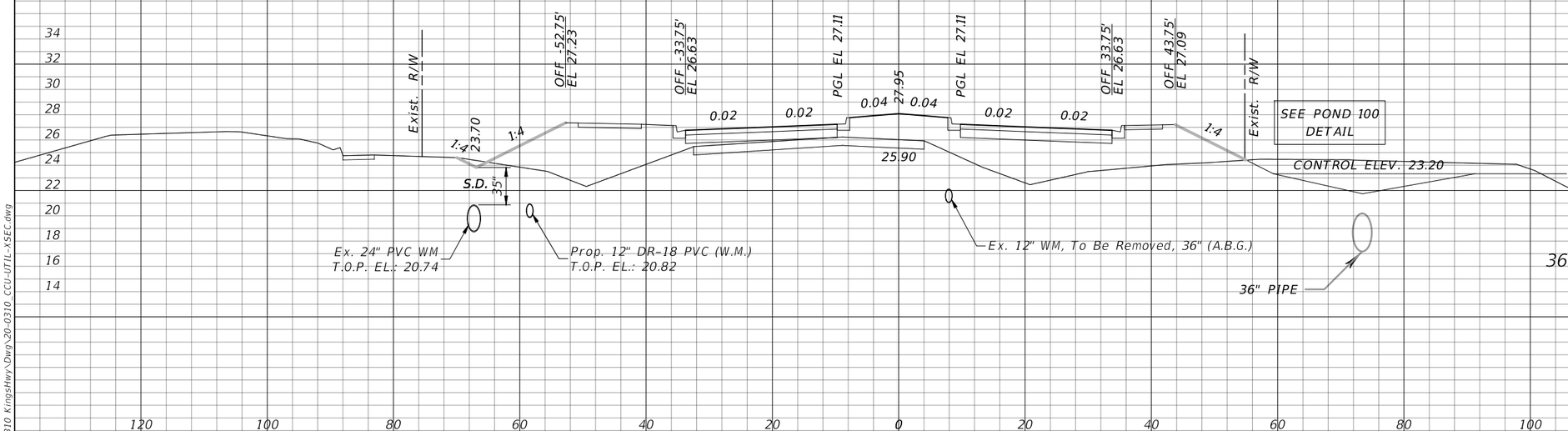
T.B.A. TO BE ABANDONED
T.O.P. TOP OF PIPE







SCALE: 1" = 20' HORIZ.
1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (8)

SHEET NO. U-23

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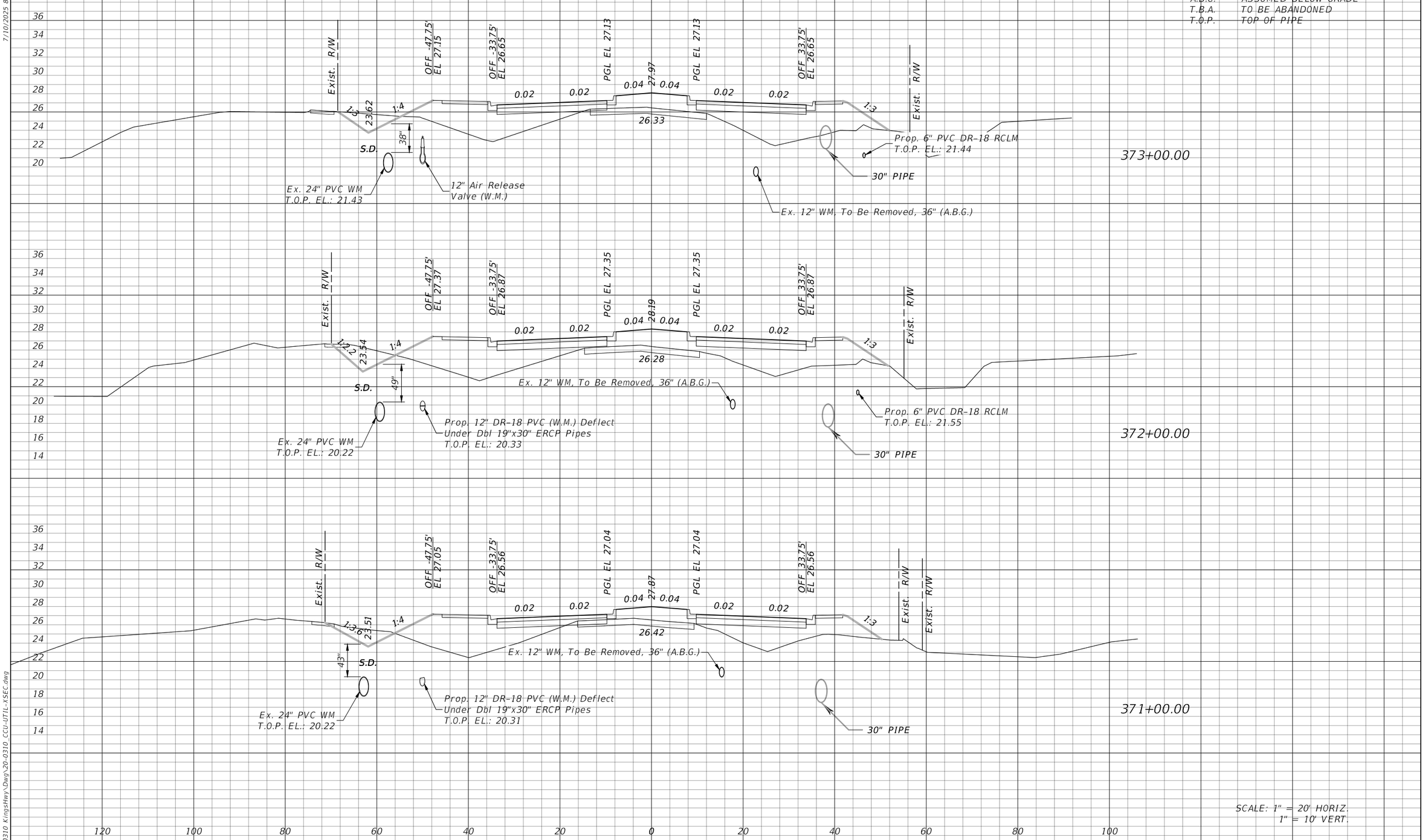
7/10/2025 8:08:04 AM

UTILITY CROSS SECTION ABBREVIATIONS:

A.B.G.	ASSUMED BELOW GRADE
T.B.A.	TO BE ABANDONED
T.O.P.	TOP OF PIPE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
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PHONE: 941-412-1293
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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (9)

SHEET NO. U-24

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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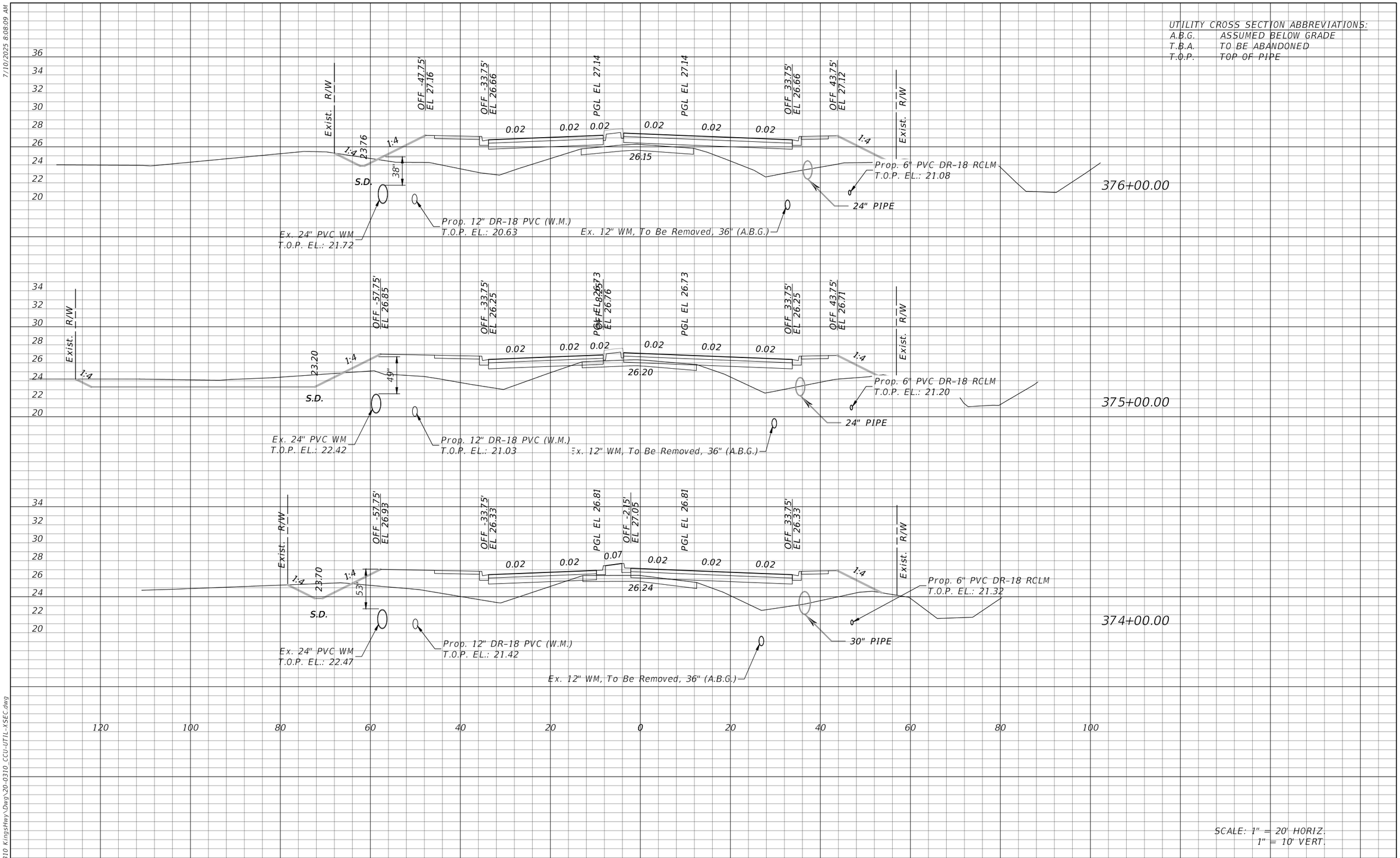

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CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (10)

SHEET NO. U-25

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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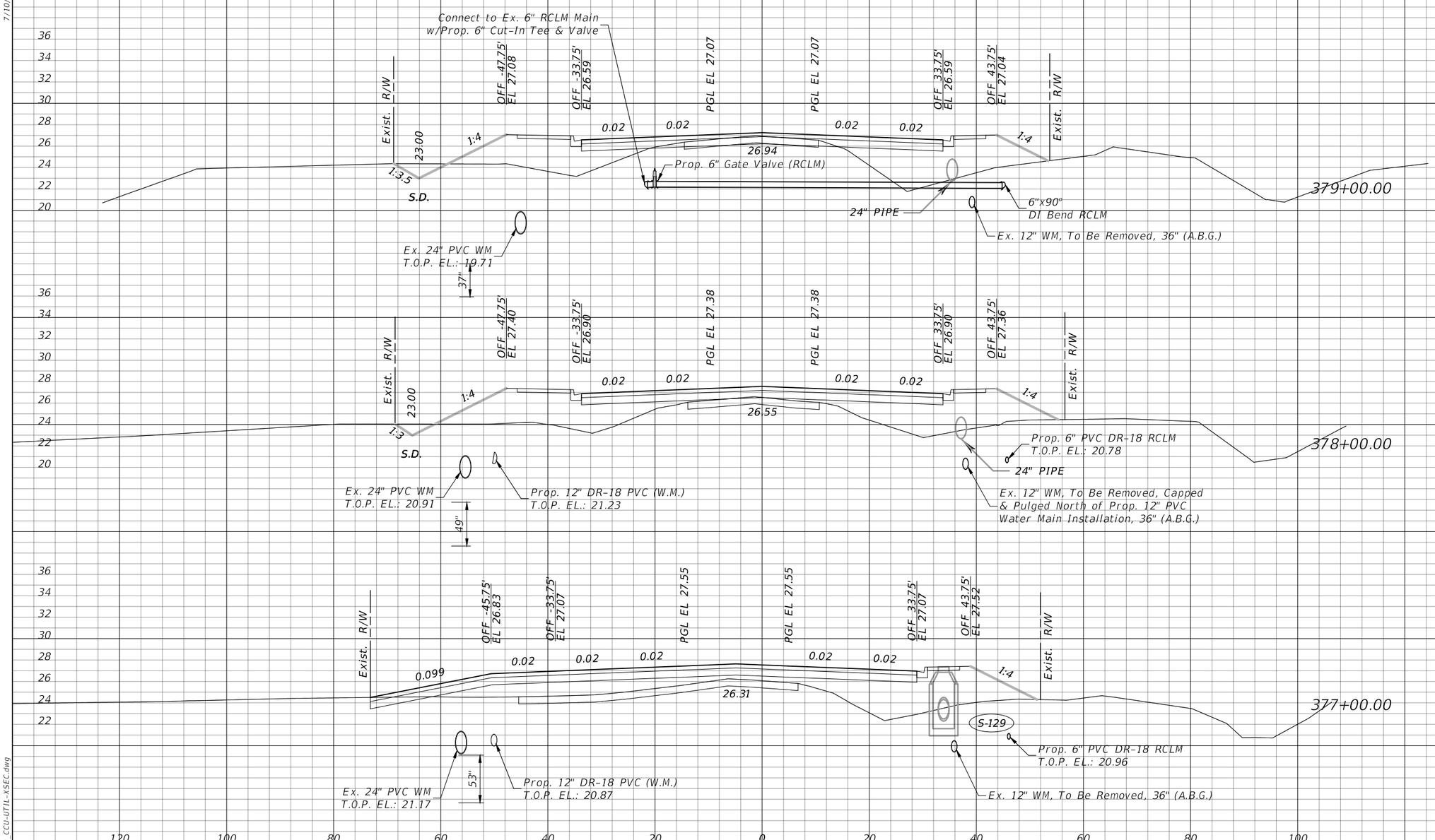
7/10/2025 8:08:14 AM

UTILITY CROSS SECTION ABBREVIATIONS:
A.B.G. ASSUMED BELOW GRADE
T.B.A. TO BE ABANDONED
T.O.P. TOP OF PIPE



SCALE: 1" = 20' HORIZ.
1" = 10' VERT.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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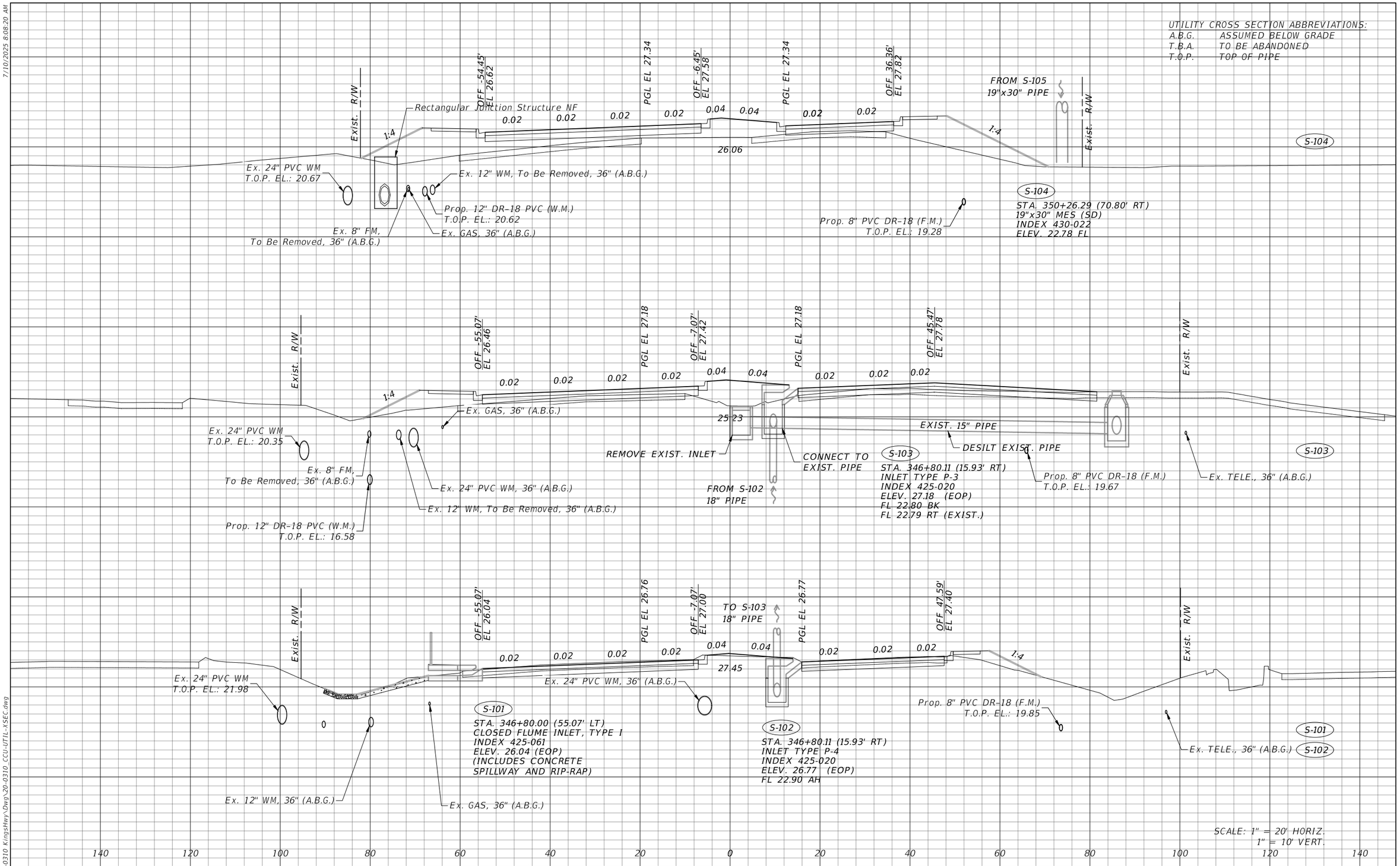
CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (11)

SHEET NO. U-26



REVISIONS			
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CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (12)

SHEET NO. U-27

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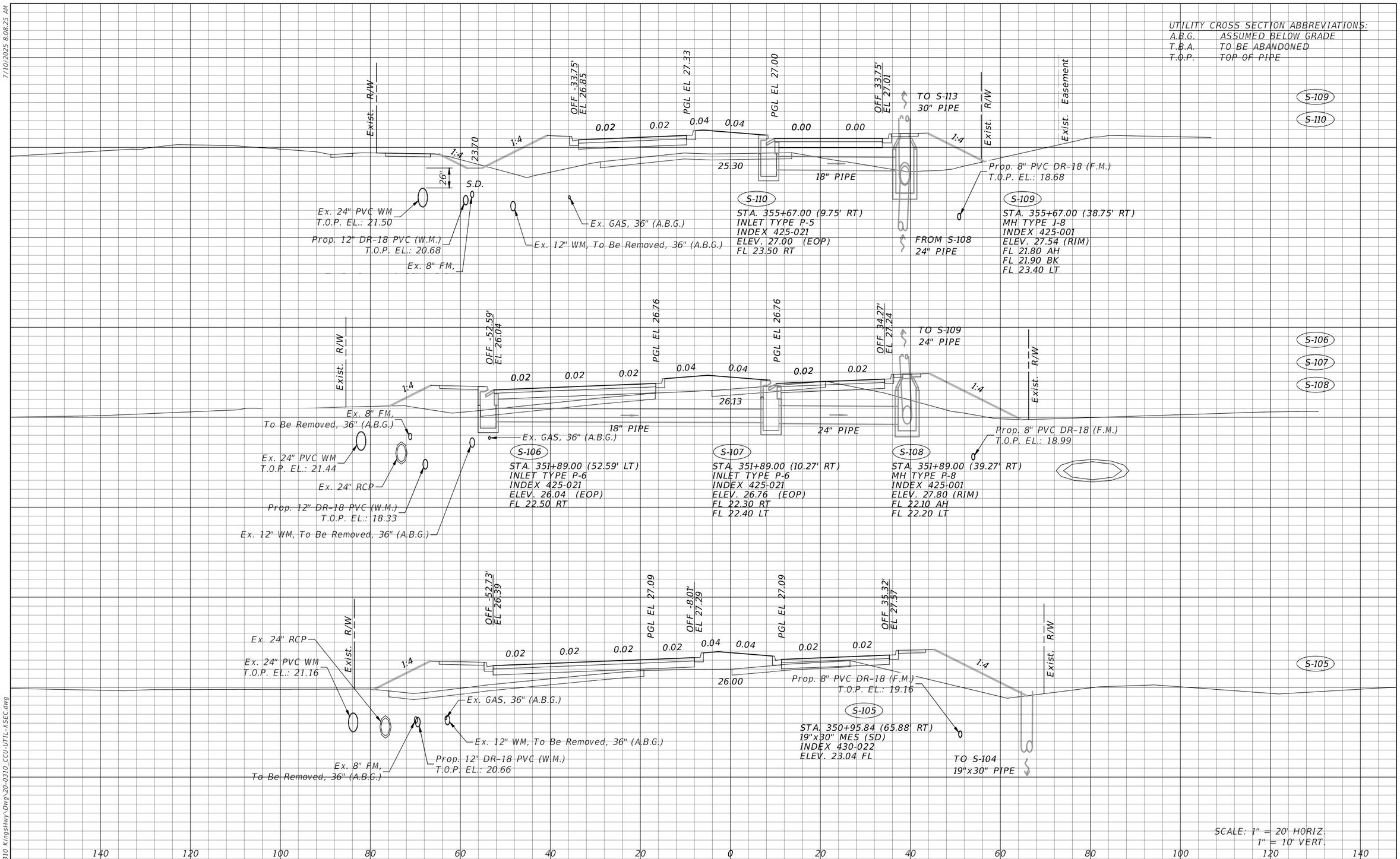

REVISIONS			
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P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (13)

SHEET NO.

U-28

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7/10/2025 8:08:25 AM

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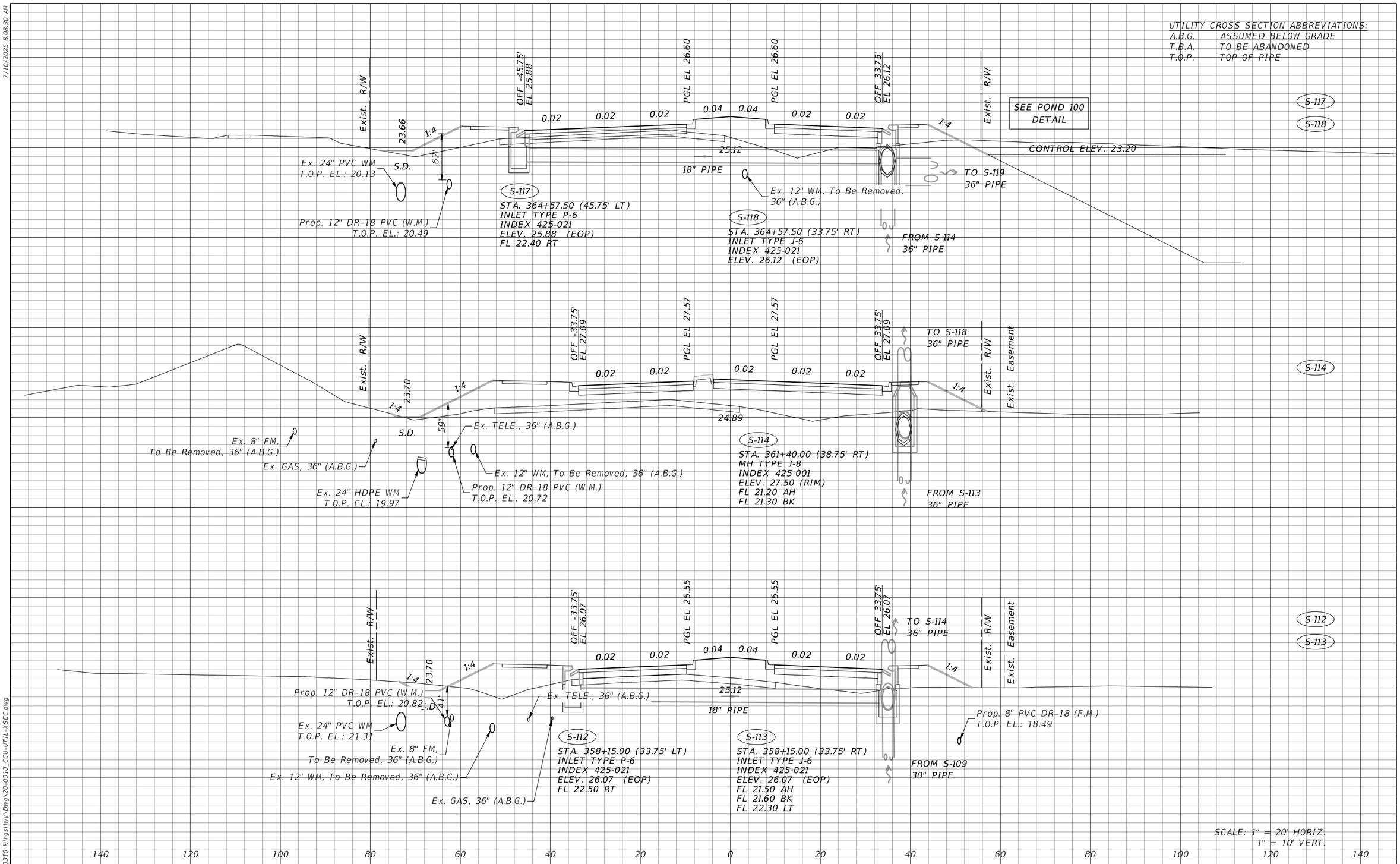

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DMK ASSOCIATES, INC.
405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (14)

SHEET NO. U-29

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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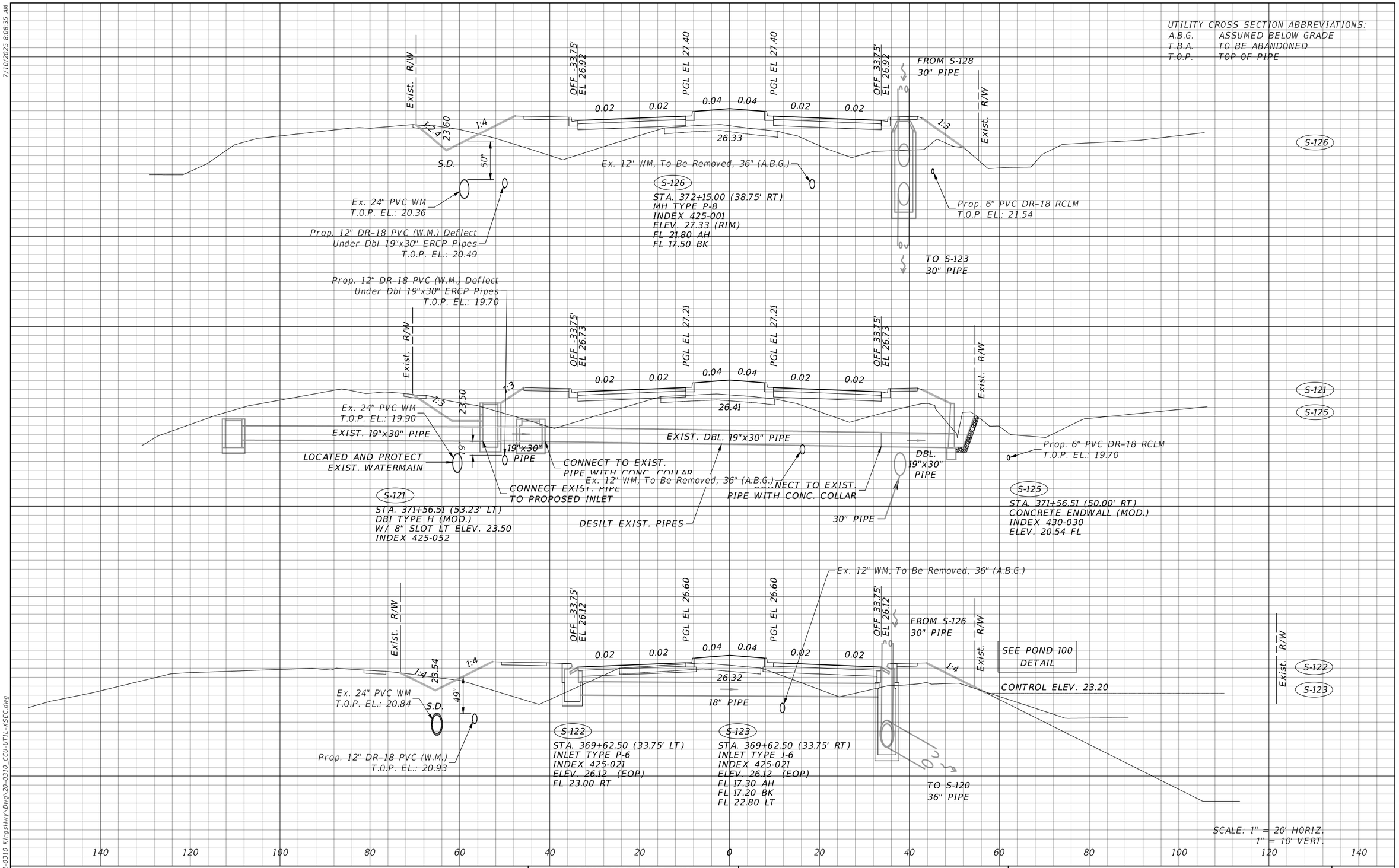

REVISIONS			
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VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (15)

SHEET NO.
U-30

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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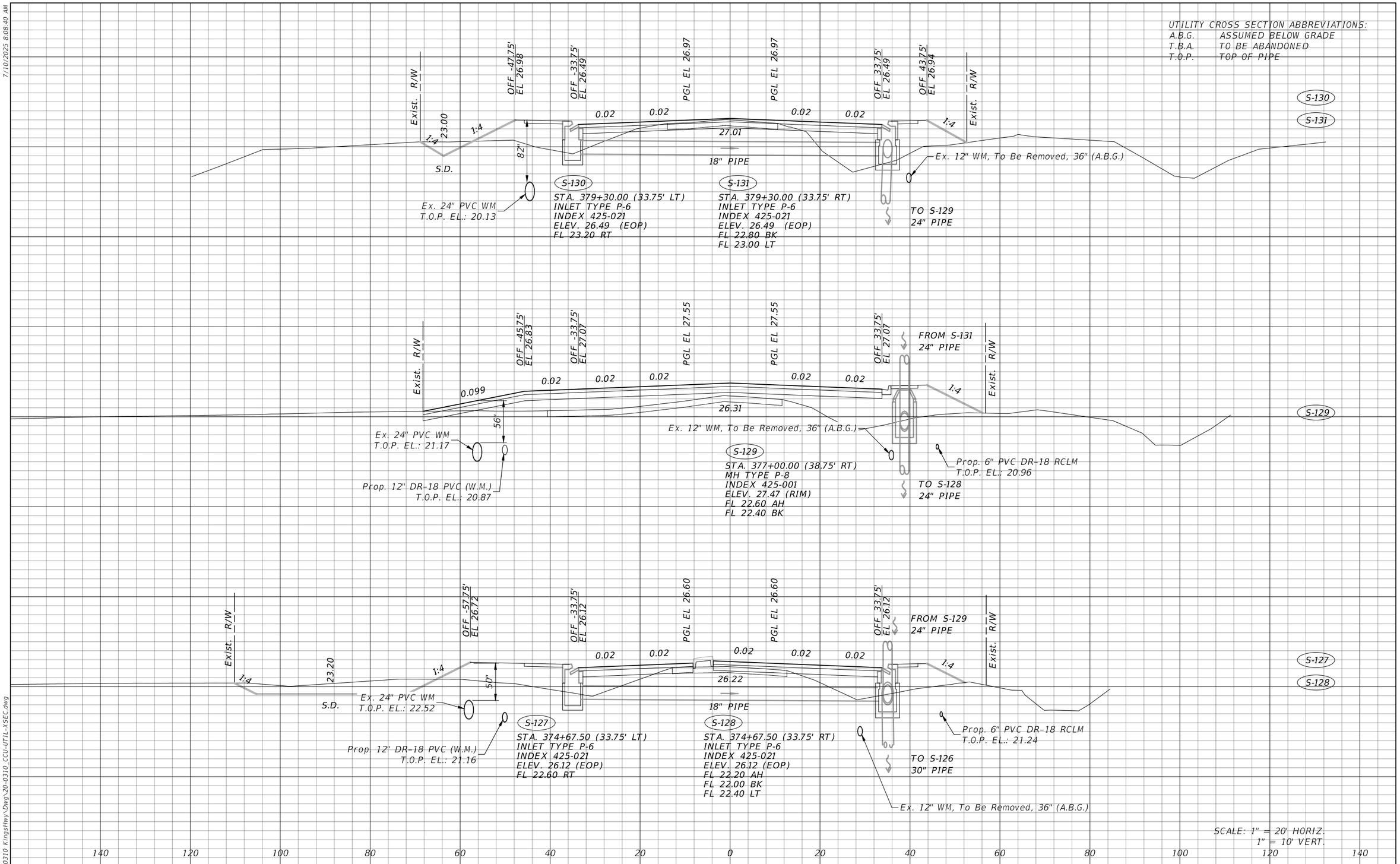
7/10/2025 8:08:40 AM

UTILITY CROSS SECTION ABBREVIATIONS:
A.B.G. ASSUMED BELOW GRADE
T.B.A. TO BE ABANDONED
T.O.P. TOP OF PIPE



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

F:\Projects\2022\22-0310 KingsHwy\Dwg\20-0310_CCU-UTIL-XSEC.dwg

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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405 COMMERCIAL CT, SUITE E
VENICE, FL. 34292
PHONE: 941-412-1293
EMAIL: info@dmkassoc.com
KREG E. MAHEU, P.E.
P.E. No. 45766
CA No: 3943

CHARLOTTE COUNTY UTILITIES

ROAD NO.	COUNTY	CCU PROJECT No.
	CHARLOTTE	CCU#23-0002

CROSS SECTION (16)

SHEET NO.
U-31

CTL WC: PTCTFLXA - 68-0159.34 RGB MARK-UPS (KINGS HIGHWAY WIDENING, SANDHILL BLVD. TO COURTLY MANOR DR.) - CHARLOTTE COUNTY 11/20/2024

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LIGHTING PLANS
UTILITY PLANS

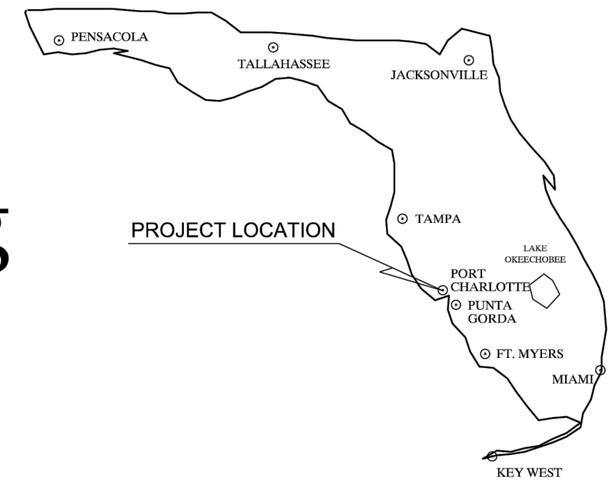
CHARLOTTE COUNTY PUBLIC WORKS ENGINEERING DIVISION

PLANS OF PROPOSED

Kings Highway Widening

ROADWAY PLANS

Sandhill Blvd. to Courtly Manor Dr.



INDEX OF UTILITY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
10	PROJECT LAYOUT
17 - 24	DRAINAGE STRUCTURES
28 - 38	ROADWAY CROSS SECTIONS
39 - 40	POND CROSS SECTIONS
48 - 53	UTILITY ADJUSTMENTS

CENTURYLINK COMMUNICATIONS, LLC
MARK-UPS PROVIDED BY:

AYRES CenturyLink™

LEGEND

RED = (a) TO BE REMOVED OR RELOCATED HORIZONTALLY OR
(b) TO BE PLACED OUT-OF-SERVICE (DEACTIVATED) BUT LEFT IN PLACE OR REMOVE WHERE ACCESSIBLE

GREEN = TO REMAIN IN PLACE WITH NO ADJUSTMENT

BROWN = (a) EXISTING TO BE ADJUSTED VERTICALLY, BUT REMAIN IN SAME HORIZONTAL ALIGNMENT, OR
(b) PROPOSED TO BE INSTALLED

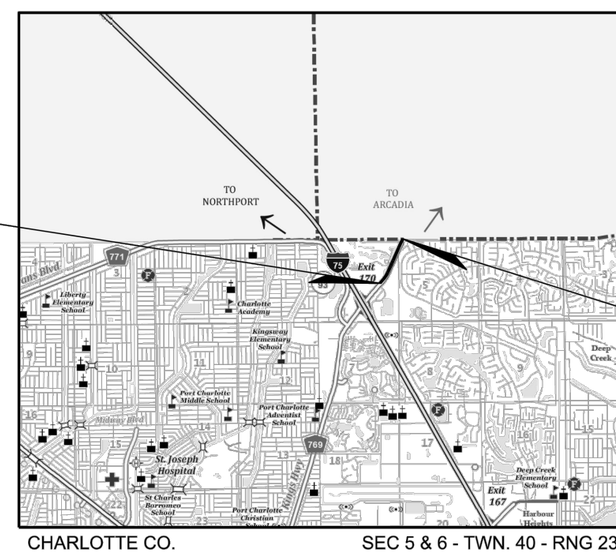
36" DOC — DEPTH OF COVER
PEDESTAL
REPEATER
HAND HOLE
MANHOLE
CROSS BOX
SPLICE BOX
CABINET
UNDERGROUND CABLE MARKER
UNDERGROUND SPLICE
TELEPHONE POLE
OT — OVERHEAD TELEPHONE
BT(B) — BURIED TELEPHONE QUALITY LEVEL B
BT(D) — BURIED TELEPHONE QUALITY LEVEL D
OFOT — OVERHEAD FIBER-OPTIC TELEPHONE
BFOT(B) — BURIED FIBER-OPTIC TELEPHONE QUALITY LEVEL B
BFOT(D) — BURIED FIBER-OPTIC TELEPHONE QUALITY LEVEL D
PROPOSED DRAINAGE (BY OTHERS)
PROPOSED SIGNALIZATION (BY OTHERS)
W W W W W W W W — PROPOSED WATER (BY OTHERS)
S S S S S S S S — PROPOSED FORCE MAIN (BY OTHERS)
NPW NPW NPW — PROPOSED RECLAIM MAIN (BY OTHERS)
OOS = OUT-OF-SERVICE

TYPE OF UTILITY — UTILITY DISPOSITION
100 BT / TO REMAIN
CTL /
UTILITY OWNER — PLACEMENT RESPONSIBILITY

NOTE:
LEVEL D MARK-UPS SHOWN ARE FROM CENTURYLINK CABLE RECORDS. LOCATIONS ARE APPROXIMATE

PROJECT LIMIT
SANDHILL BLVD
(Begin)

SCALE



PROJECT LIMIT
COURTLY MANOR DR
(End)

CHARLOTTE CO. SEC 5 & 6 - TWN. 40 - RNG 23

LOCATION MAP

JOHNSON ENGINEERING

Johnson Engineering, Inc.
17833 Murdock Circle
Port Charlotte, Florida 33948
Certificate of Authorizaton No. 642

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEAL BY RYAN K. BELL, P.E. ON 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.

STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 2023, AND SUPPLEMENTS THERETO AS NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.

CHARLOTTE COUNTY
BOARD OF COUNTY COMMISSIONERS

DISTRICT 1 - KEN DOHERTY
DISTRICT 2 - CHRISTOPHER CONSTANCE
DISTRICT 3 - BILL TRUEX
DISTRICT 4 - STEPHEN R. DEUTSCH
DISTRICT 5 - JOE TISEO

DIRECTOR OF PUBLIC WORKS - JOHN ELIAS
COUNTY ENGINEER - JOANNE VERNON, P.E.

CHARLOTTE COUNTY
PUBLIC WORKS
ENGINEERING
410 TAYLOR STREET, UNIT 104
PUNTA GORDA, FLORIDA 33950
(941) 575-3600

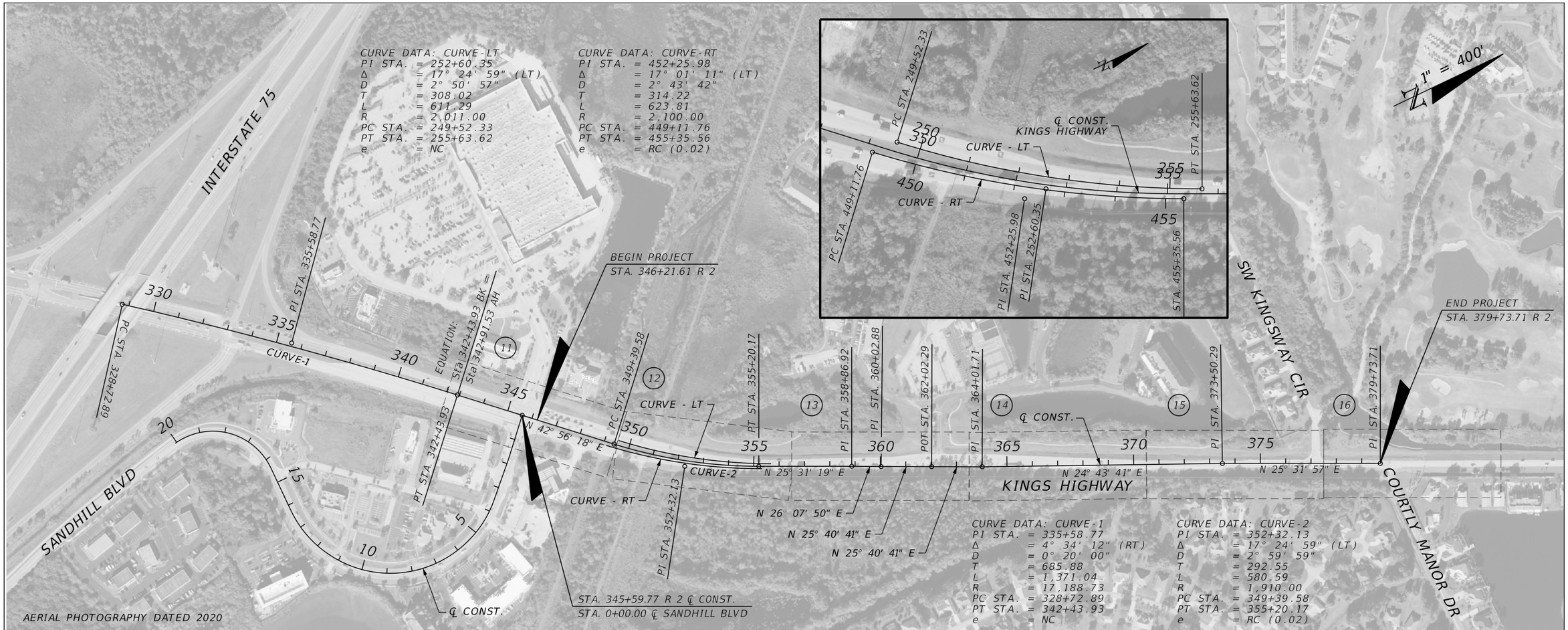
90% SUMBMITTAL
SEPTEMBER 2024

ENGINEERING CERTIFICATION

I HEREBY CERTIFY THAT THE DESIGN OF THIS PROJECT UNDER MY DIRECTION COMPLIES WITH THE CURRENT MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS AS ADOPTED BY THE F.D.O.T. PURSUANT TO SUBSECTION 336.045 OF THE FLORIDA STATUTES.

DATE _____ RYAN K. BELL, P.E. NO. 60010

PROJ. NO. 20236025-000
SHEET 1 OF 67
DATE 10/2/2024



HORIZONTAL AND VERTICAL CONTROL

CONTROL POINT	℄ STATION	OFFSET	ELEVATION (Z)	DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	SCALE FACTOR
CP1	332+18.65	407.94' RT.	23.35'	4"X4" CONCRETE MONUMENT PLS4909	976594.94	640910.63			1.0000
CP2	334+86.23	215.16' RT.	23.71'	4"X4" CONCRETE MONUMENT LB6639	976920.12	640931.64			1.0000
CP3	334+66.59	381.46' LT.	23.42'	4"X4" CONCRETE MONUMENT LB7143	977291.59	640464.35			1.0000
CP4	336+77.51	149.92' LT.	24.09'	CONTROL POINT 5/8" IRON ROD (FL-DOT)	977303.01	640779.55			1.0000
CP5	340+76.61	110.10' LT.	24.37'	4"X4" CONCRETE MONUMENT LB7143	977576.68	641076.84			1.0000
CP6	341+86.13	112.44' RT.	23.00'	4"X4" CONCRETE MONUMENT (ILLEGIBLE)	977506.82	641314.82			1.0000
CP7	345+07.29	95.00' LT.	26.36'	4"X4" CONCRETE MONUMENT LB7143	977848.19	641348.97			1.0000
CP8	351+51.28	60.57' RT.	23.23	4"X4" CONCRETE MONUMENT LB6690	978226.50	641896.98			1.0000
CP9	351+46.15	114.85' LT.	23.64'	5/8" IRON ROD LB6690	978327.19	641753.25			1.0000
CP10	355+10.85	103.25' LT.	26.33'	5/8" IRON ROD LB6690	978614.67	641941.35			1.0000
CP11	357+76.33	85.62' LT.	25.23'	5/8" IRON ROD LB6690	978846.18	642071.44			1.0000
CP12	357+07.94	42.63' RT.	23.96'	5/8" IRON ROD LB6690	978729.21	642157.71			1.0000
CP13	360+03.95	42.14' RT.	24.13'	5/8" IRON ROD LB6690	978995.90	642285.87			1.0000
CP14	363+01.81	92.43' LT.	27.18'	5/8" IRON ROD LB6690	979322.66	642293.66			1.0000
CP15	367+17.33	85.81' LT.	25.55'	5/8" IRON ROD LB6690	979695.22	642474.33			1.0000
CP16	365+94.76	42.86' RT.	23.83'	5/8" IRON ROD LB6690	979530.06	642539.93			1.0000
CP17	371+19.24	76.79' LT.	23.83'	5/8" IRON ROD LB6690	980056.50	642650.65			1.0000
CP18	374+91.47	56.24' LT.	25.00'	5/8" IRON ROD LB6690	980385.87	642827.15			1.0000
CP19	376+28.51	54.02' RT.	24.38'	5/8" IRON ROD LB6690	980462.01	642985.71			1.0000
CP20	378+24.63	60.74' LT.	24.52'	5/8" IRON ROD LB6690	980688.44	642966.69			1.0000
CP21	379+73.67	91.5' RT.	23.91'	5/8" IRON ROD Z639	980757.30	643168.30			1.0000

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

CenturyLink™

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

PROJECT LAYOUT

SHEET NO. 10

CAUTION: BURIED GAS PIPELINE

1" = 50'

48 BFOT / TO REMAIN CTL /

300 BT / TO REMAIN CTL /

PEDESTAL #144594 (TO REMAIN)

EXIST. R/W L.A.

EXIST. 6" FM (TO REMAIN)

EXIST. 24" PIPE (TO REMAIN)

UG MARKER (TO REMAIN)

HANDHOLE (TO REMAIN)

EXIST. 12" WM (TO REMAIN)

EXIST. 24" WM (TO REMAIN)

25 BT / TO REMAIN CTL /

12 BFOT / TO REMAIN CTL /

PED #130600 (TO REMAIN)

CCU CONTRACTOR TO MONITOR & PROTECT AS NEEDED

EXIST. 12" WM (TO BE REMOVED)

CONST. 5'x7' RUBBLE RIP-RAP SUMP

CONST. CONCRETE SPILLWAY

ROOF ALUMINUM HANDRAIL

BEGIN PROJECT STA. 346+28.59

KINGS HIGHWAY

EXIST. GAS (TO REMAIN)

EXIST. 6" FM (TO REMAIN)

S-101

S-102

S-103

REMOVE EXIST. CURBING

CONST. 117 LF OF 18" PIPE

EXIST. 6" FM (TO BE REMOVED)

PGL (LT)

PROP. 12" PVC WM

300 BT / TO REMAIN CTL /

342 343 344 345 346 347 348 349

N 42° 56' 18" E

48 BFOT / MONITOR, PROTECT OR ADJUST CTL /

90°0'47"

EXIST. 12" WM (TO REMAIN)

CCU CONTRACTOR TO MONITOR & PROTECT AS NEEDED

EXIST. 24" WM (TO REMAIN)

REMOVE EXIST. INLET AND CONNECT TO EXIST. PIPE

PGL (RT)

CURVE-2

MATCHLINE STA. 349+80.00

SANDHILL BLVD

S 47° 04' 29" E

CONST. CONC. FLUME (TYP.) PER FDOT INDEX 520-010

EXIST. R/W

PROP. 6" HDPE FM

EXIST. R/W L.A.

MILL & RESURFACE EXIST. PAV'T

144 BFOT / TO REMAIN CTL /

600 BT / TO REMAIN CTL /

48 BFOT / TO REMAIN CTL /

36 BFOT(OOS) / LEFT IN PLACE CTL /

UG MARKER (TO REMAIN)

PED #51995 (TO REMAIN)

REPEATER #28729 (TO REMAIN)

HANDHOLE #150172 (TO REMAIN)

300 BT / TO REMAIN CTL /

600 BT / TO REMAIN CTL /

EXIST. 6" FM (TO REMAIN)

EXIST. 12" PIPE (TO REMAIN)

SAWCUT & MATCH EXIST. PAV'T

600 BT(OOS) / LEFT IN PLACE CTL /

36 BFOT(OOS) / LEFT IN PLACE CTL /

300 BT / TO REMAIN CTL /

600 BT / TO REMAIN CTL /

144 BFOT / TO REMAIN CTL /

EXIST. 12" PIPE (TO REMAIN)

PED #130599 (TO REMAIN)

36 BFOT(OOS) / LEFT IN PLACE CTL /

48 BFOT / TO REMAIN CTL /

600 BT / TO REMAIN CTL /

144 BFOT / TO REMAIN CTL /

600 BT(OOS) / LEFT IN PLACE CTL /

NOTE:
LEVEL D MARK-UPS SHOWN ARE FROM CENTURYLINK CABLE RECORDS. LOCATIONS ARE APPROXIMATE

NOTE:
TO BE UPDATED UPON RECEIPT OF FINAL RGB'S AND CCU UTILITY PLANS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CenturyLink™

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 48

Gallegos, Camerino 11/20/2024 2:01:59 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL.dwg

CAUTION:
BURIED GAS
PIPELINE

1" = 50'

MATCHLINE STA. 349+80.00

MATCHLINE STA. 356+80.00

KINGS HIGHWAY

N 25° 31' 19" E

℄ CONST.

CURVE-2

PGL (RT)

PGL (LT)

350 351 352 353 354 355 356

PROP. 12" PVC WM

EXIST. 24" WM
(TO REMAIN)

EXIST. 6" FM
(TO BE REMOVED)

EXIST. 12" WM
(TO BE REMOVED)

EXIST. 8" FM
(TO BE REMOVED)

GRADE SWALE
(SEE CROSS SECTIONS)

EXIST. R/W

ADJUST MANHOLE TOP
TO FINISH GRADE
APPROX. EL. 24.5

EXIST. GAS
(TO REMAIN)

TYPE B
STABILIZATION
(LBR 70)

CONST. 59 LF
OF 18" PIPE

CONST. 27 LF
OF 24" PIPE

CONST. 27 LF
OF 18" PIPE

CONST. 56 LF
OF 19"x30" PIPE

CONST. 380 LF
OF 24" PIPE

CONST. 247 LF
OF 30" PIPE

S-104 S-105 S-106 S-107 S-108 S-110 S-111

70" DOC 68" DOC 97" DOC 56" DOC 65" DOC 87" DOC 82" DOC

EXIST. 18"X24" RCP
(TO BE REMOVED)

EXIST. ESMT.

PROP. 6" HDPE FM

36 BFOT(OOS) / LEFT IN PLACE
CTL /

600 BT(OOS) / LEFT IN PLACE
CTL /

48 BFOT / TO REMAIN
CTL /

600 BT / TO REMAIN
CTL /

144 BFOT / TO REMAIN
CTL /

CCU CONTRACTOR TO MONITOR
& PROTECT AS NEEDED

TO BE REMOVED

MONITOR, PROTECT OR ADJUST

TYP B STABILIZATION
(LBR 70)

NOTE:
TO BE UPDATED UPON RECEIPT OF
FINAL RGB'S AND CCU UTILITY PLANS.

NOTE:
LEVEL D MARK-UPS SHOWN ARE FROM
CENTURYLINK CABLE RECORDS.
LOCATIONS ARE APPROXIMATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CenturyLink™

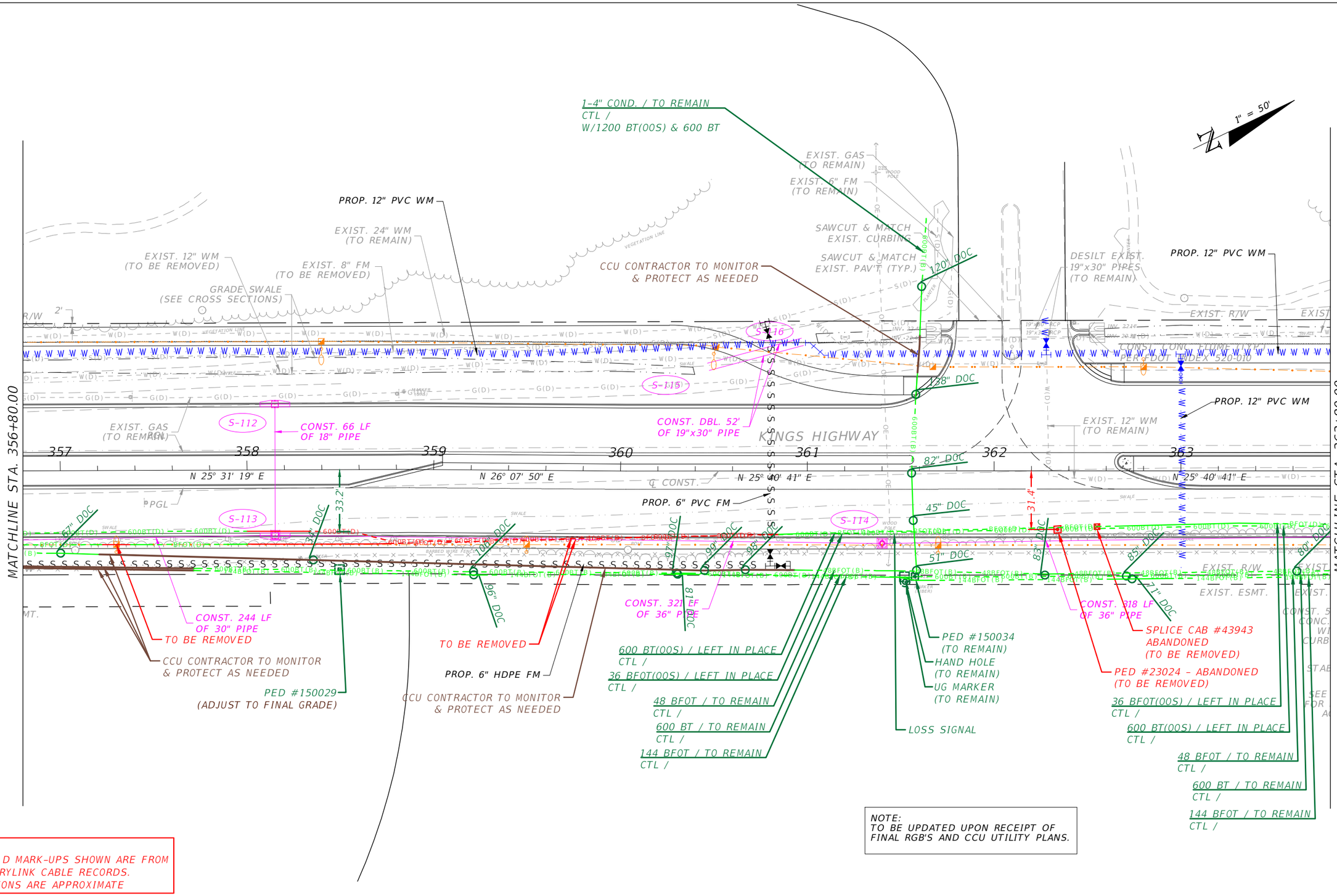
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 49

Gallegos, Camerino 11/20/2024 2:02:01 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL.dwg



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NOTE:
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CENTURYLINK CABLE RECORDS.
LOCATIONS ARE APPROXIMATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CenturyLink™

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 50

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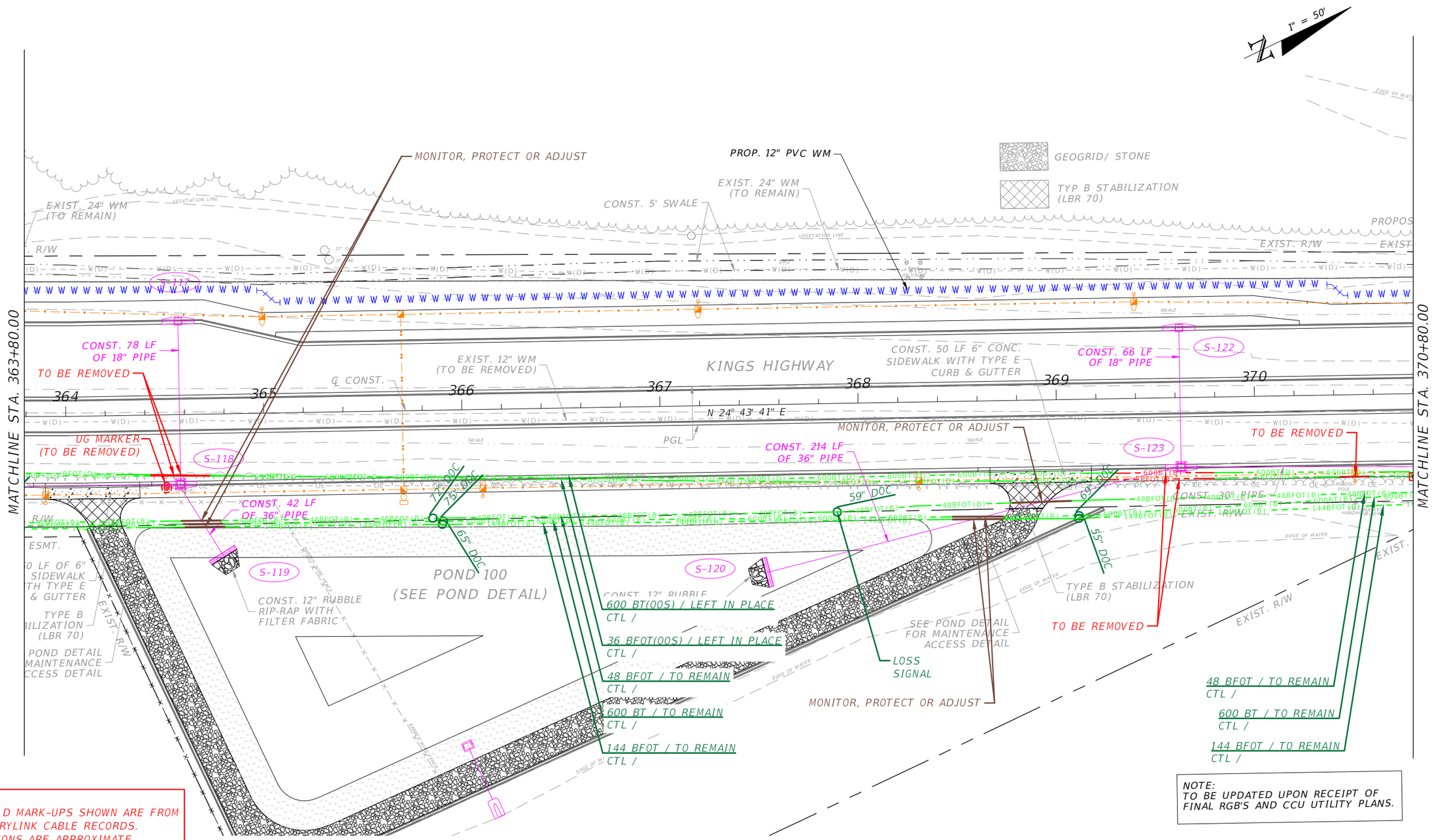


NOTE:
LEVEL D MARK-UPS SHOWN ARE FROM CENTURYLINK CABLE RECORDS.
LOCATIONS ARE APPROXIMATE

NOTE:
TO BE UPDATED UPON RECEIPT OF FINAL RGB'S AND CCU UTILITY PLANS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

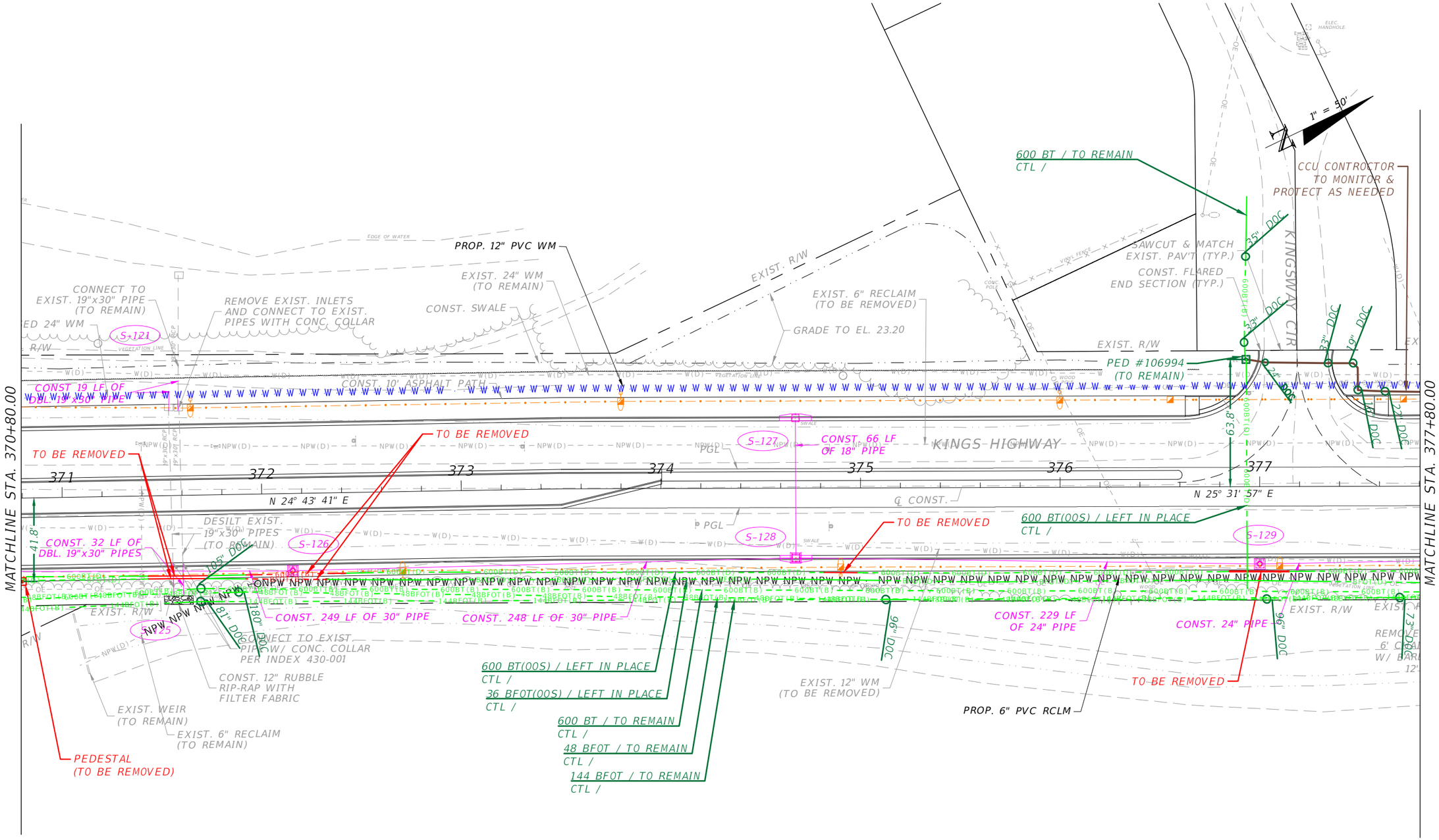
CenturyLink™

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 51



NOTE:
LEVEL D MARK-UPS SHOWN ARE FROM CENTURYLINK CABLE RECORDS. LOCATIONS ARE APPROXIMATE

NOTE:
TO BE UPDATED UPON RECEIPT OF FINAL RGB'S AND CCU UTILITY PLANS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CenturyLink™

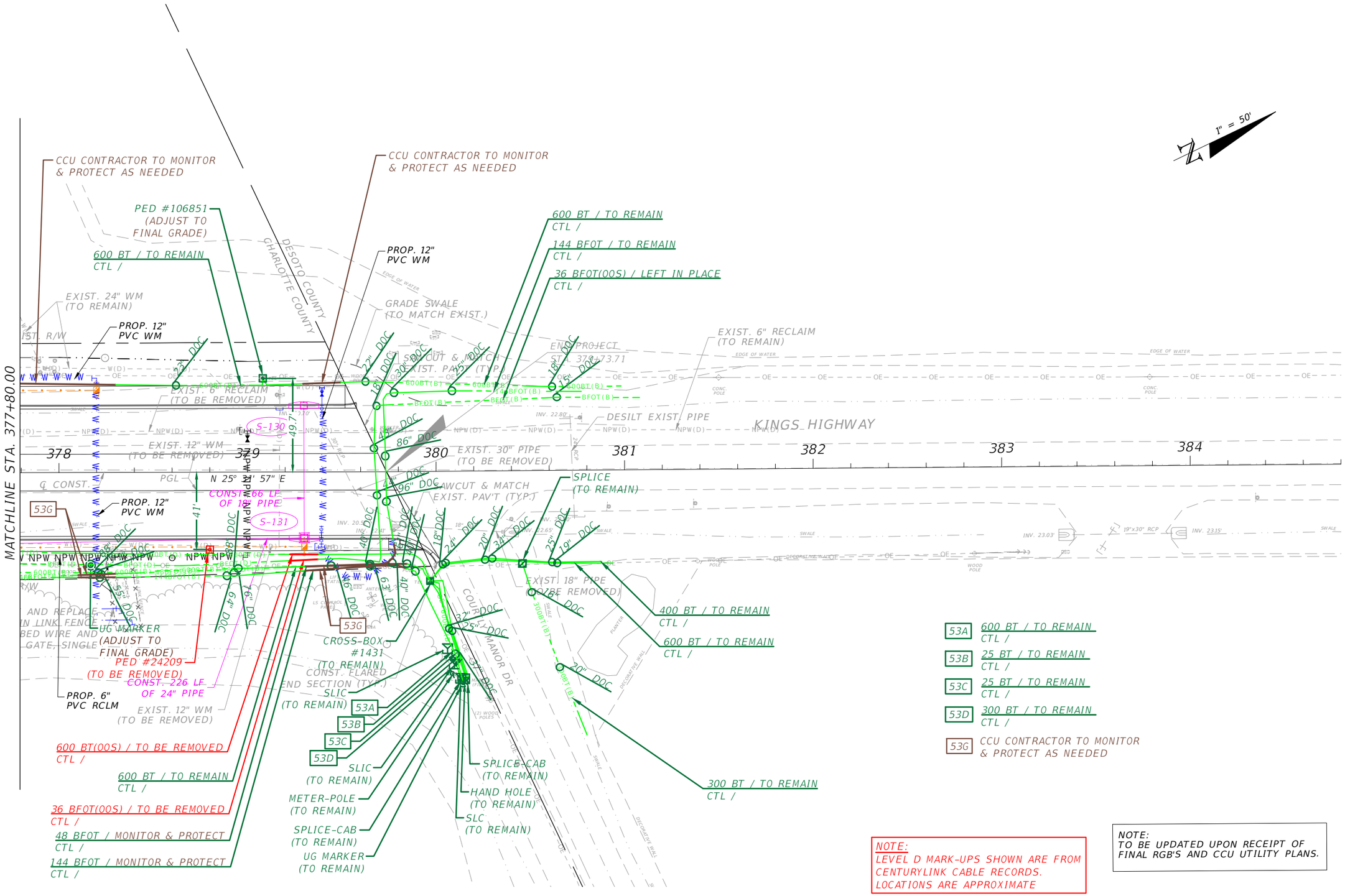
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 52

Gallegos, Camerino 11/20/2024 2:02:07 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL.dwg



NOTE:
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NOTE:
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

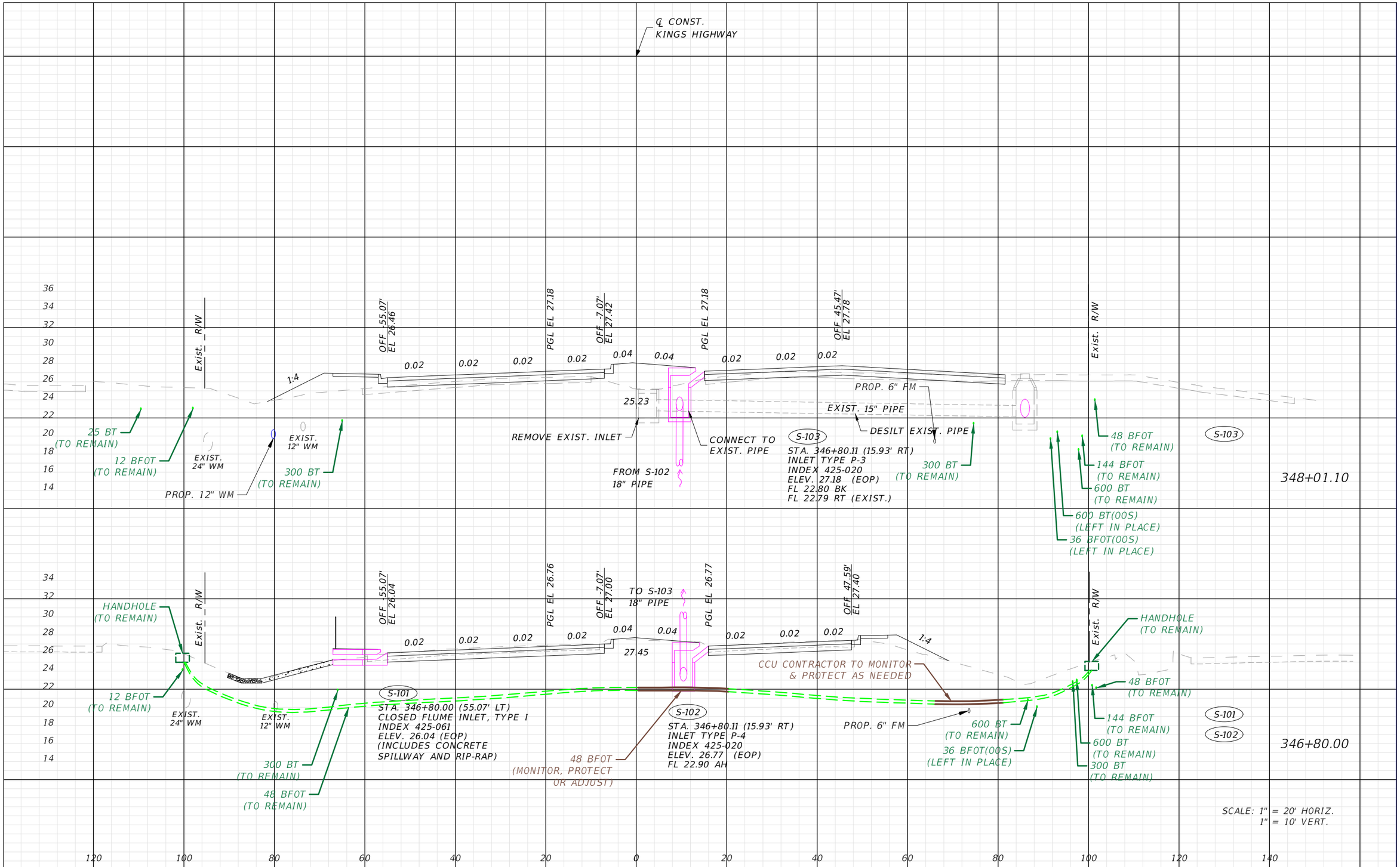
CenturyLink™

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 53



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

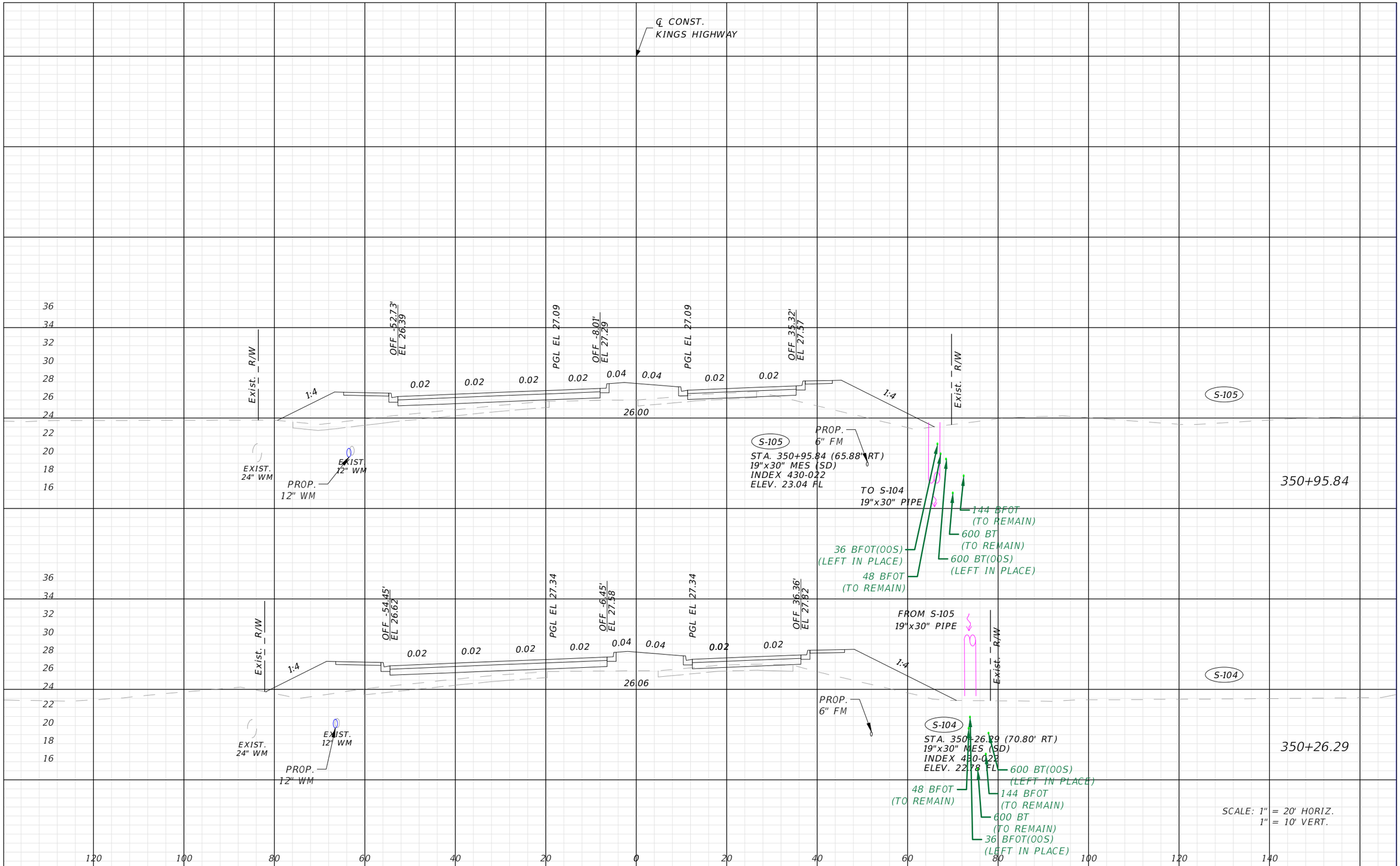
CenturyLink™

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO.
17



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

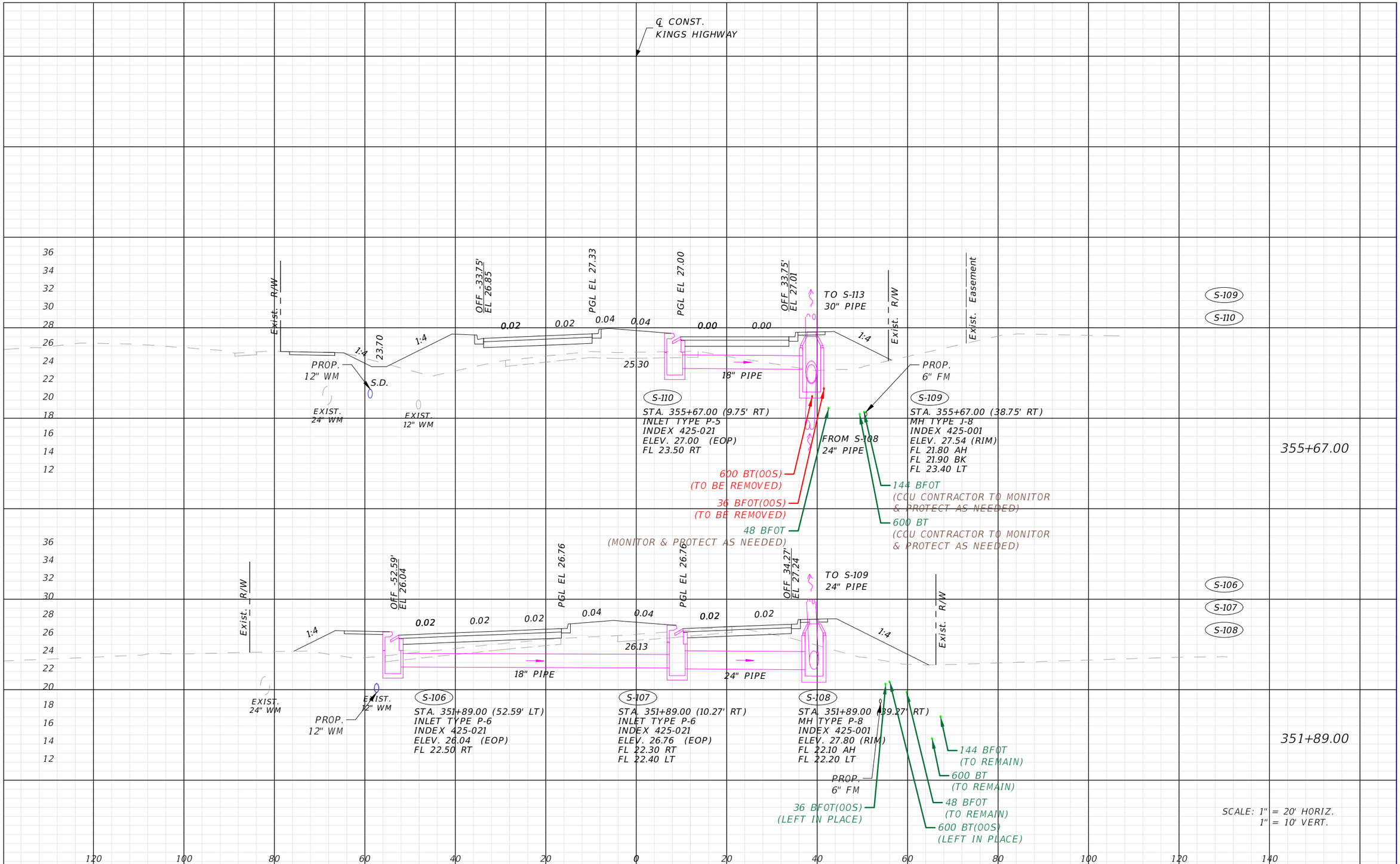
CenturyLink™

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 18



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

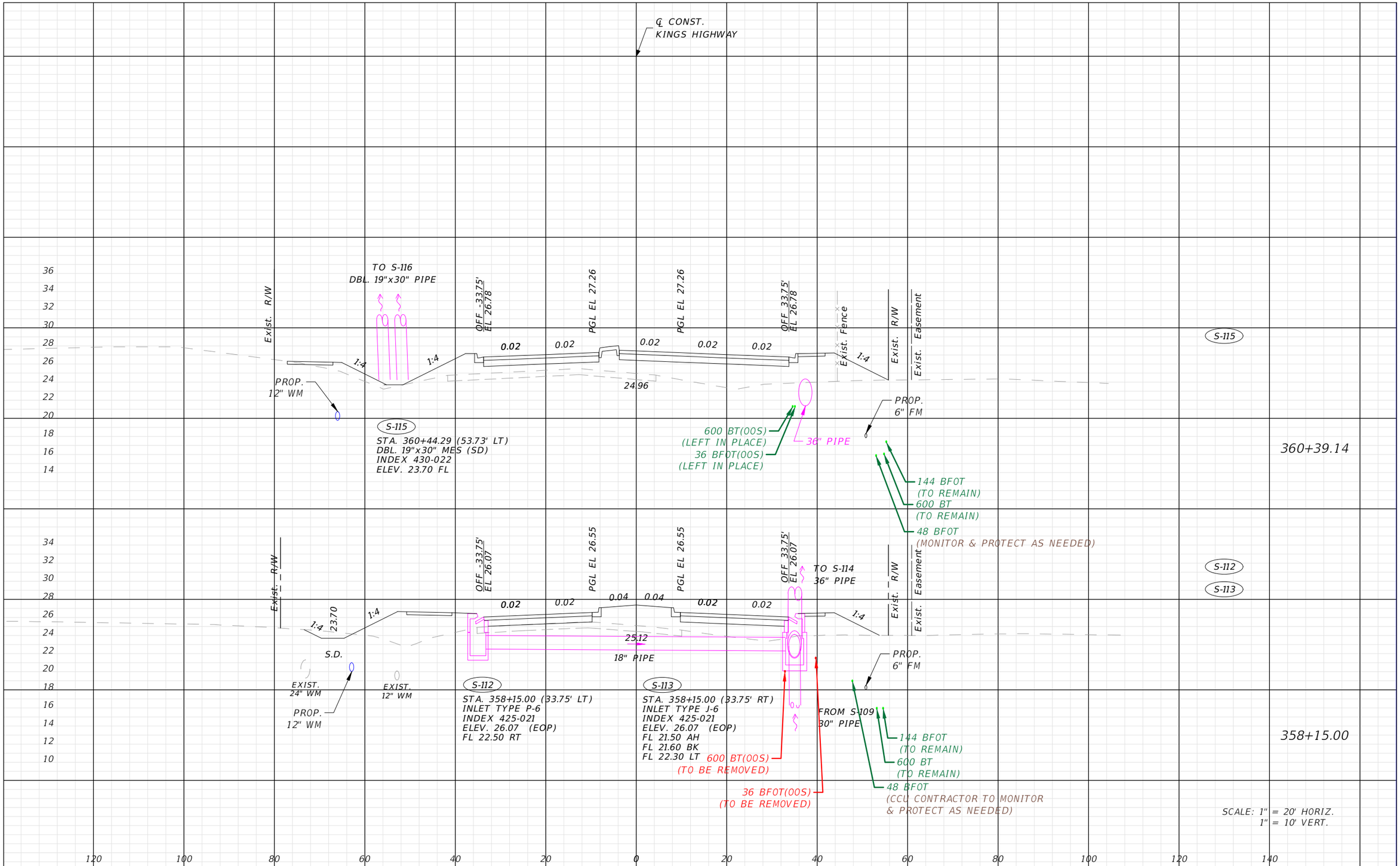
CenturyLink™

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 19



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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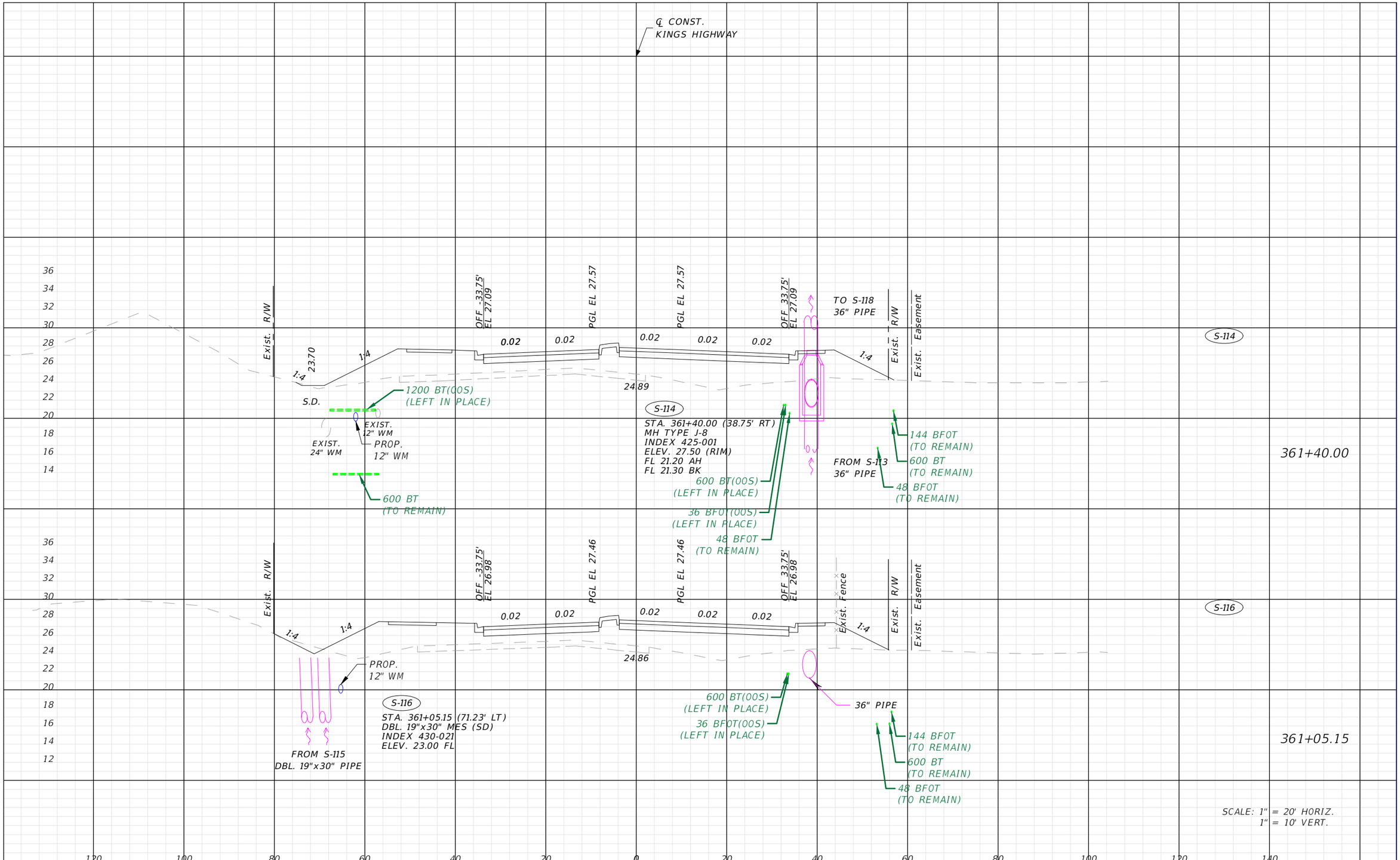
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 20



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

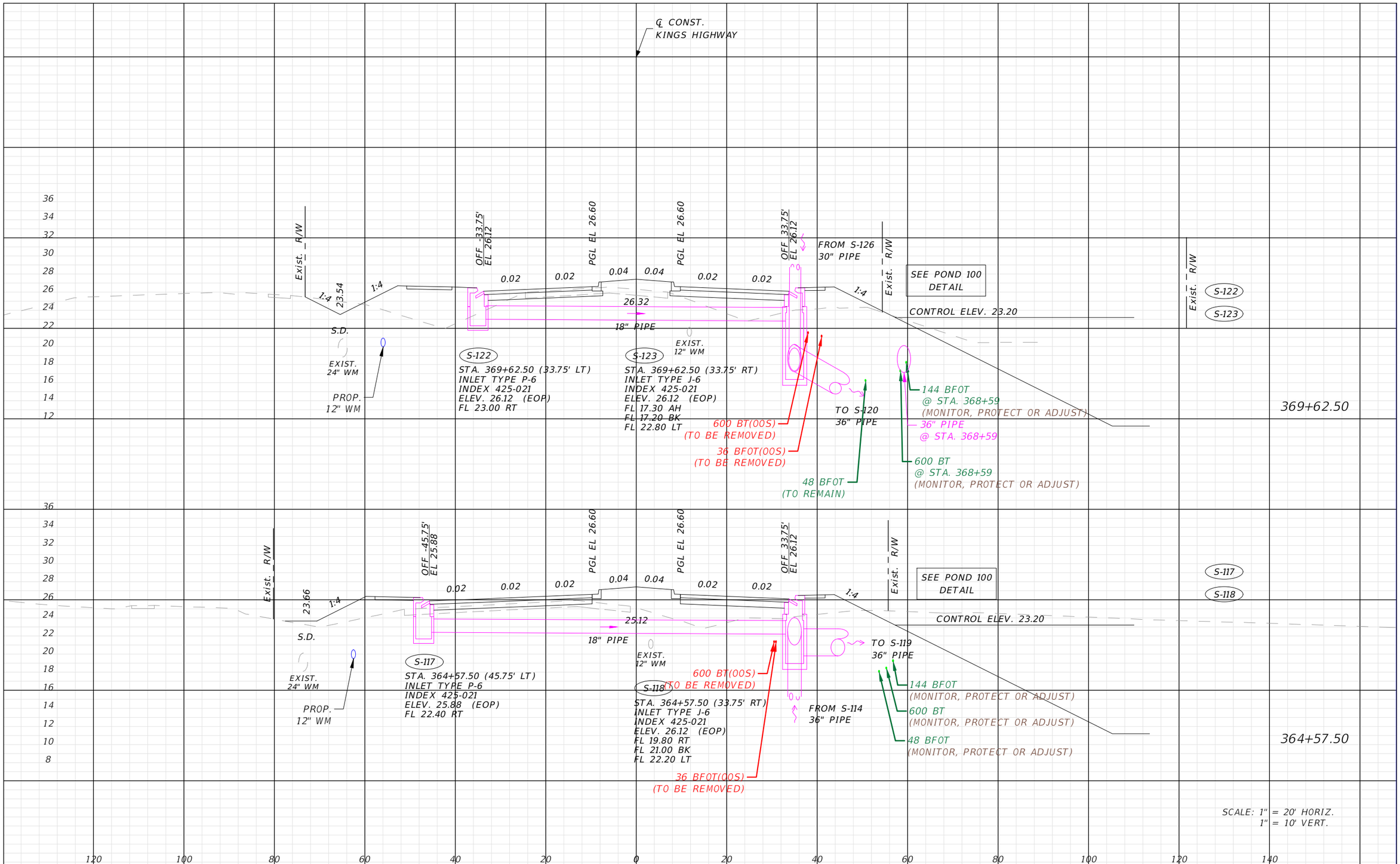
CenturyLink™

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 21



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CenturyLink™

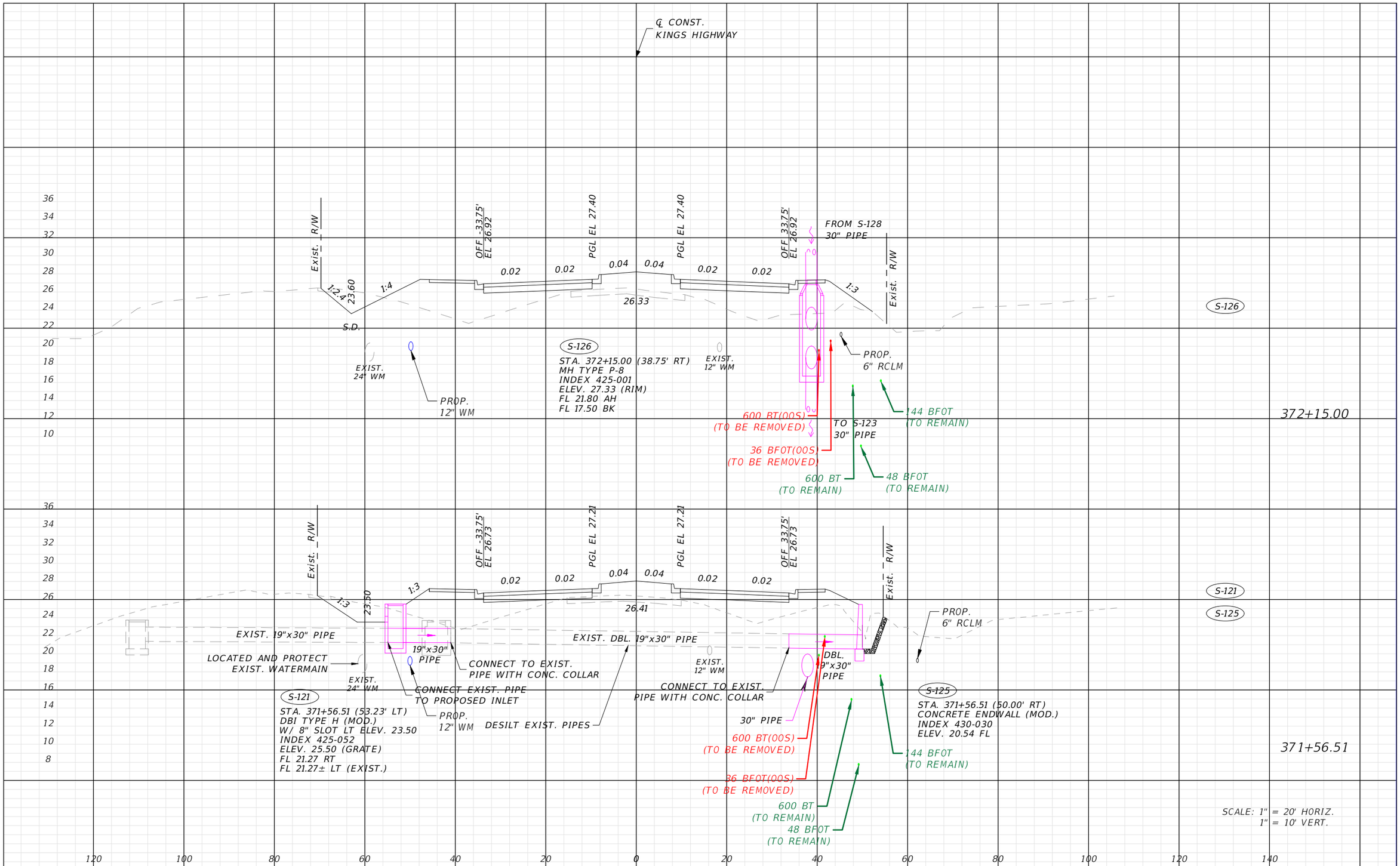
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 22

Gallegos, Camerino 11/20/2024 1:59:04 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_DRA. STRUCTURES.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CenturyLink™

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PUBLIC WORKS DEPARTMENT

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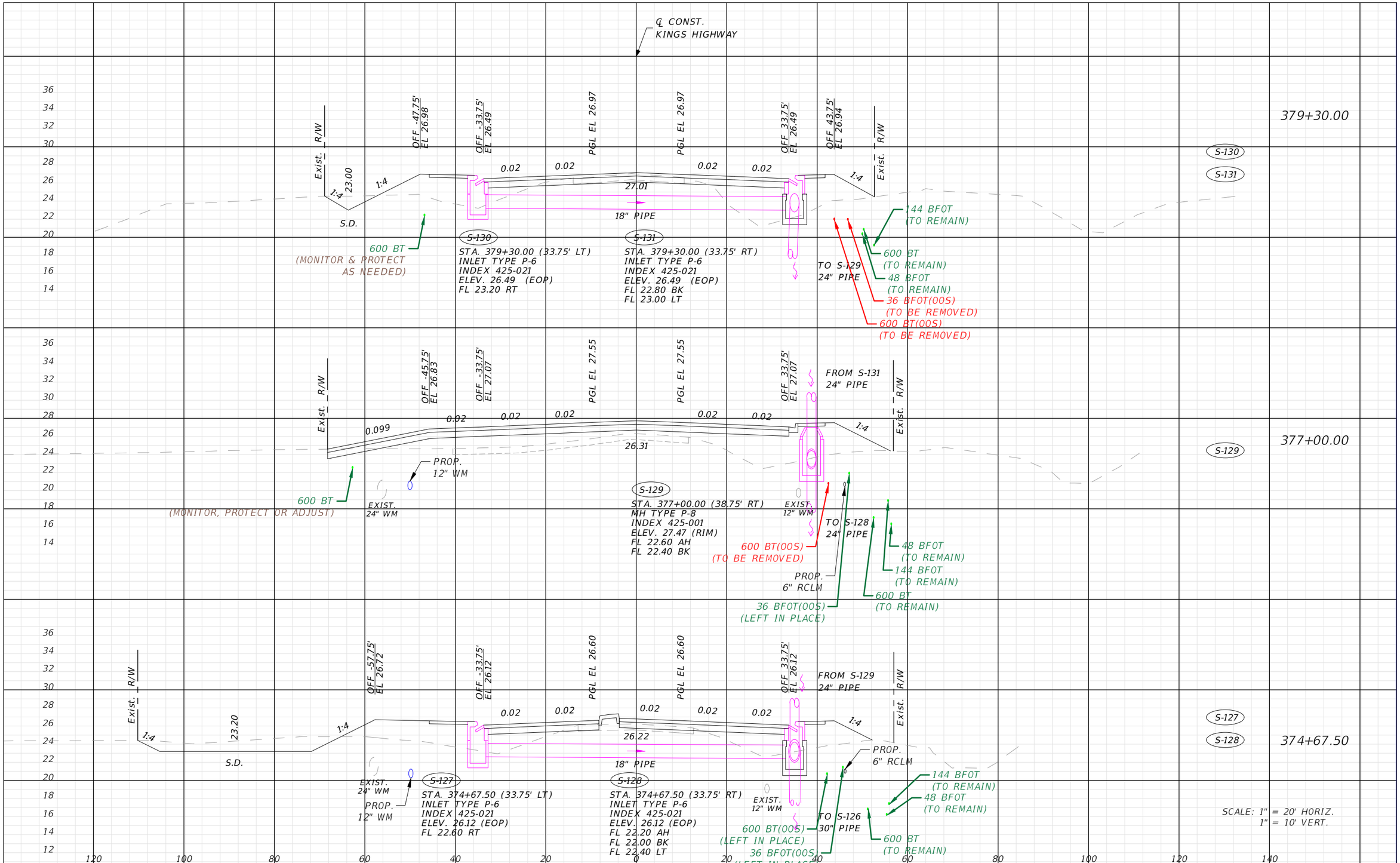
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 23

Gallegos, Camerino 11/20/2024 1:59:05 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_DRA. STRUCTURES.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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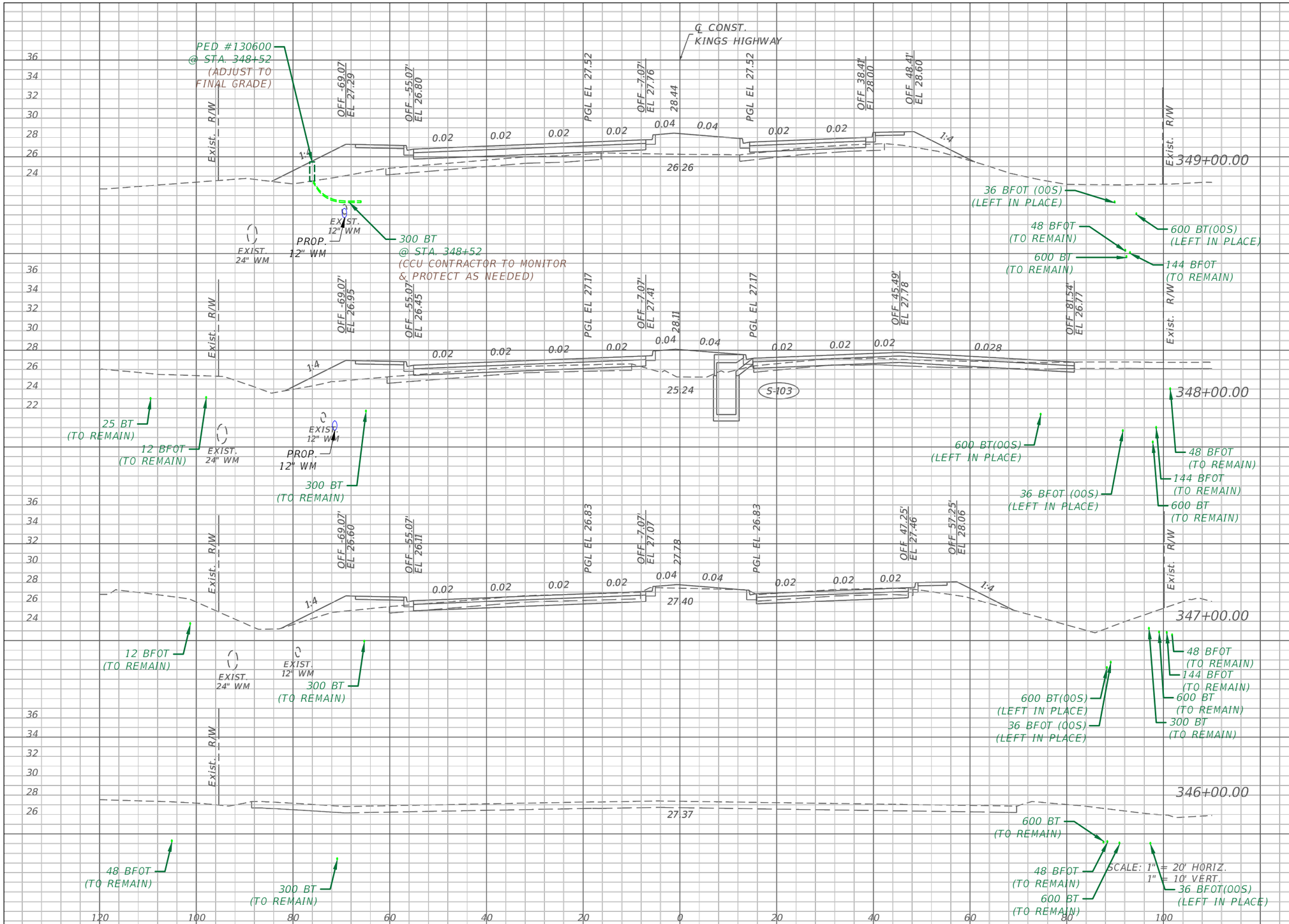
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 24



Regular Exc.		Embankment	
A	V	A	V
0	5	129	373
3	68	73	205
34	0	38	0

REVISIONS			
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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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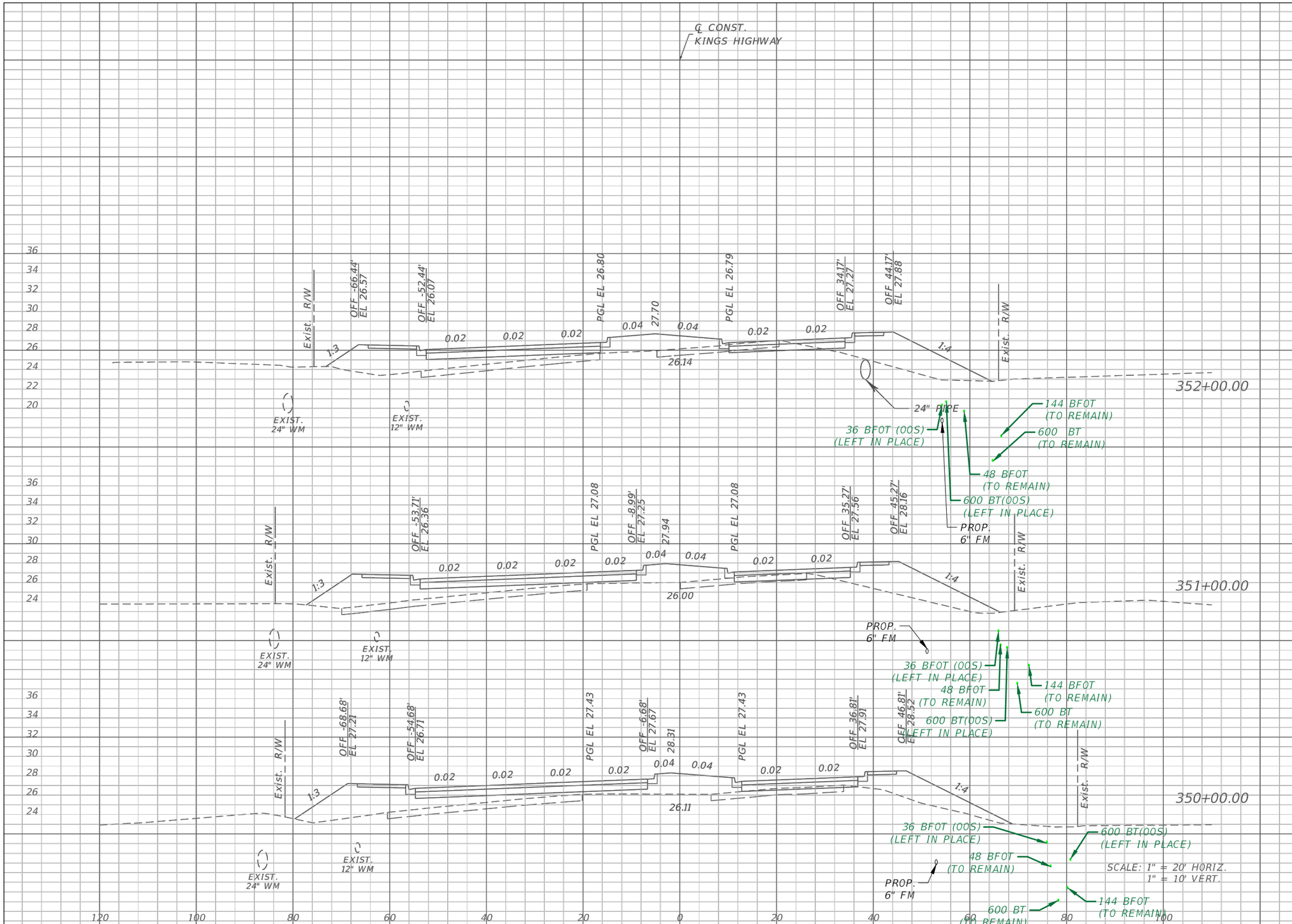
CROSS SECTIONS

SHEET NO. 28



Regular Exc.		Embankment	
A	V	A	V
9	19	164	611
2	4	166	614
0	1	165	544

REVISIONS			
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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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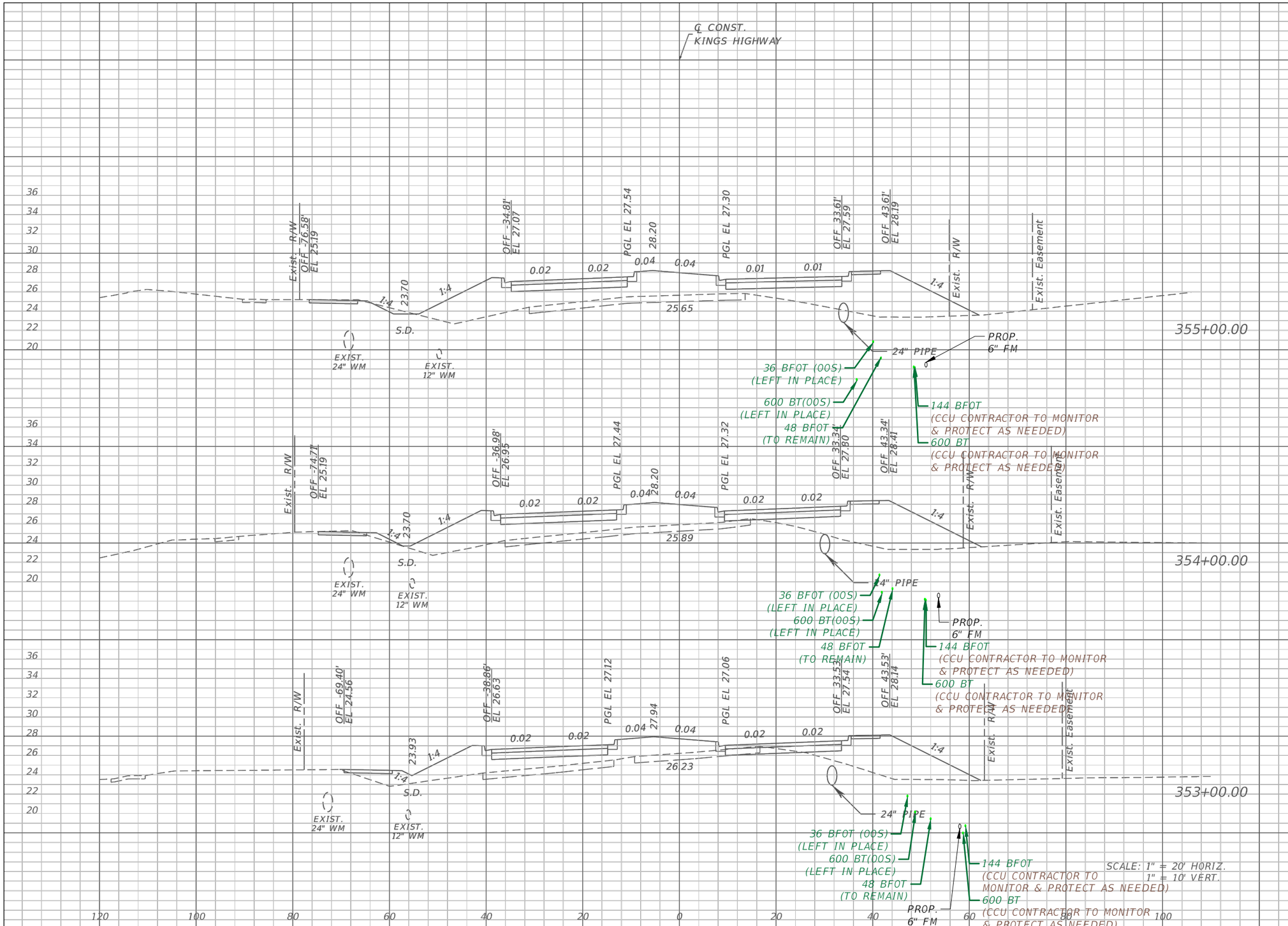
CROSS SECTIONS

SHEET NO. 29



	Regular Exc.		Embankment	
	A	V	A	V
355+00.00	13	47	287	1038
354+00.00	13	39	273	918
353+00.00	9	32	223	715

REVISIONS			
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CenturyLink™

CHARLOTTE COUNTY
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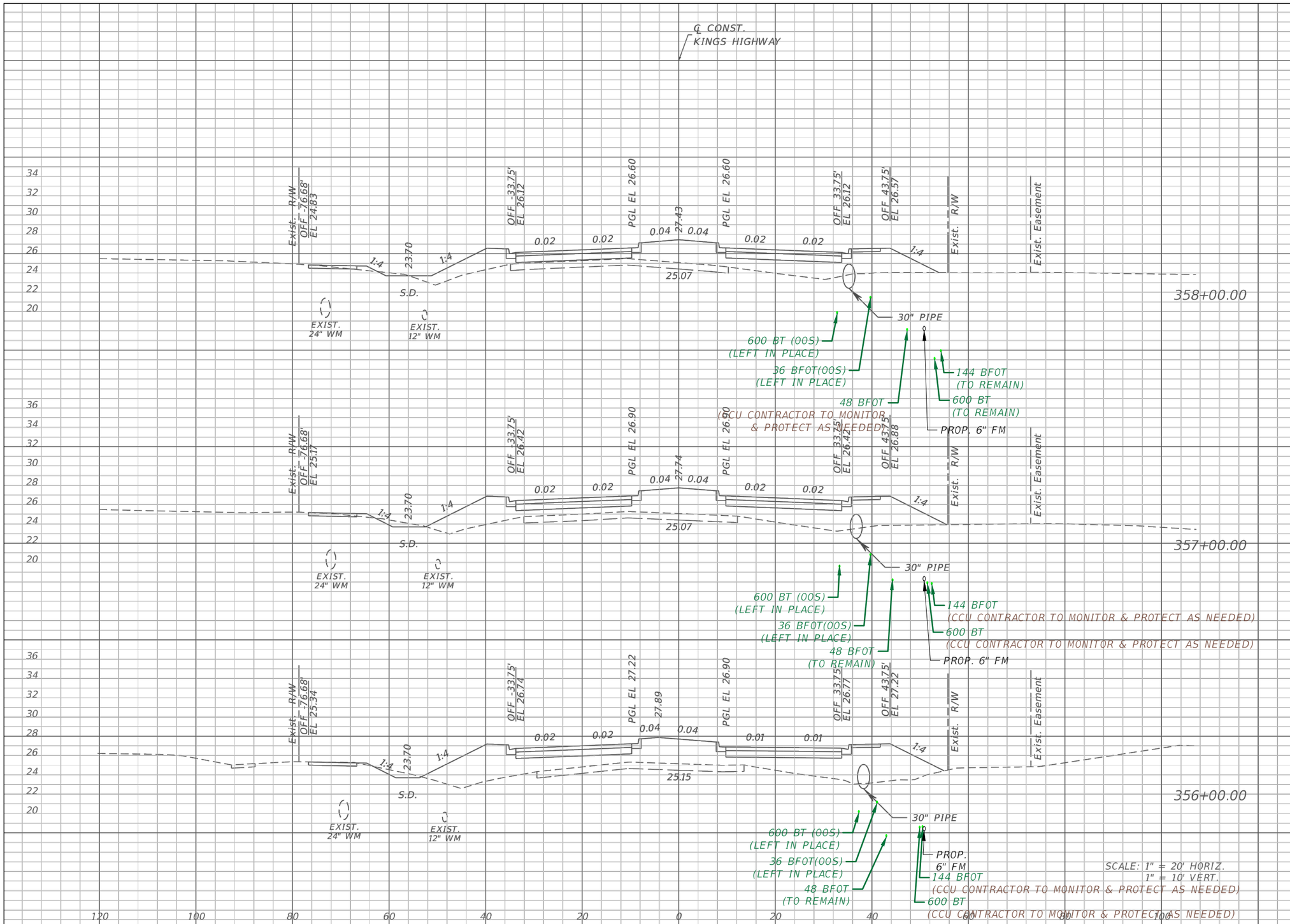
CROSS SECTIONS

SHEET NO. 30

Gallegos, Camerino 11/20/2024 1:59:51 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
6	32	167	697
12	53	209	851
17	54	251	996

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CHARLOTTE COUNTY
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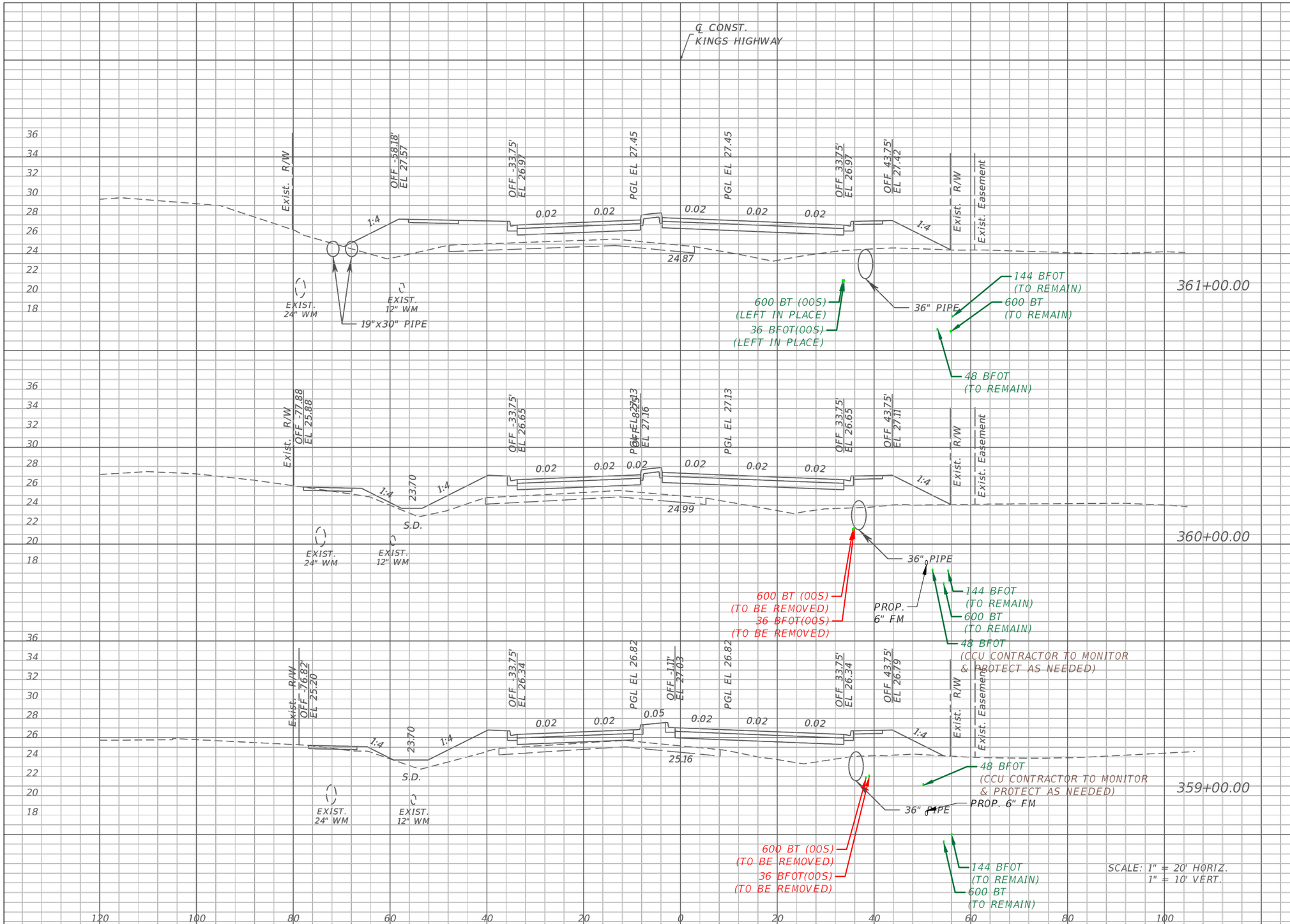
CROSS SECTIONS

SHEET NO. 31

Gallegos, Camerino 11/20/2024 1:59:52 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
6	41	225	817
16	48	216	711
10	28	168	621

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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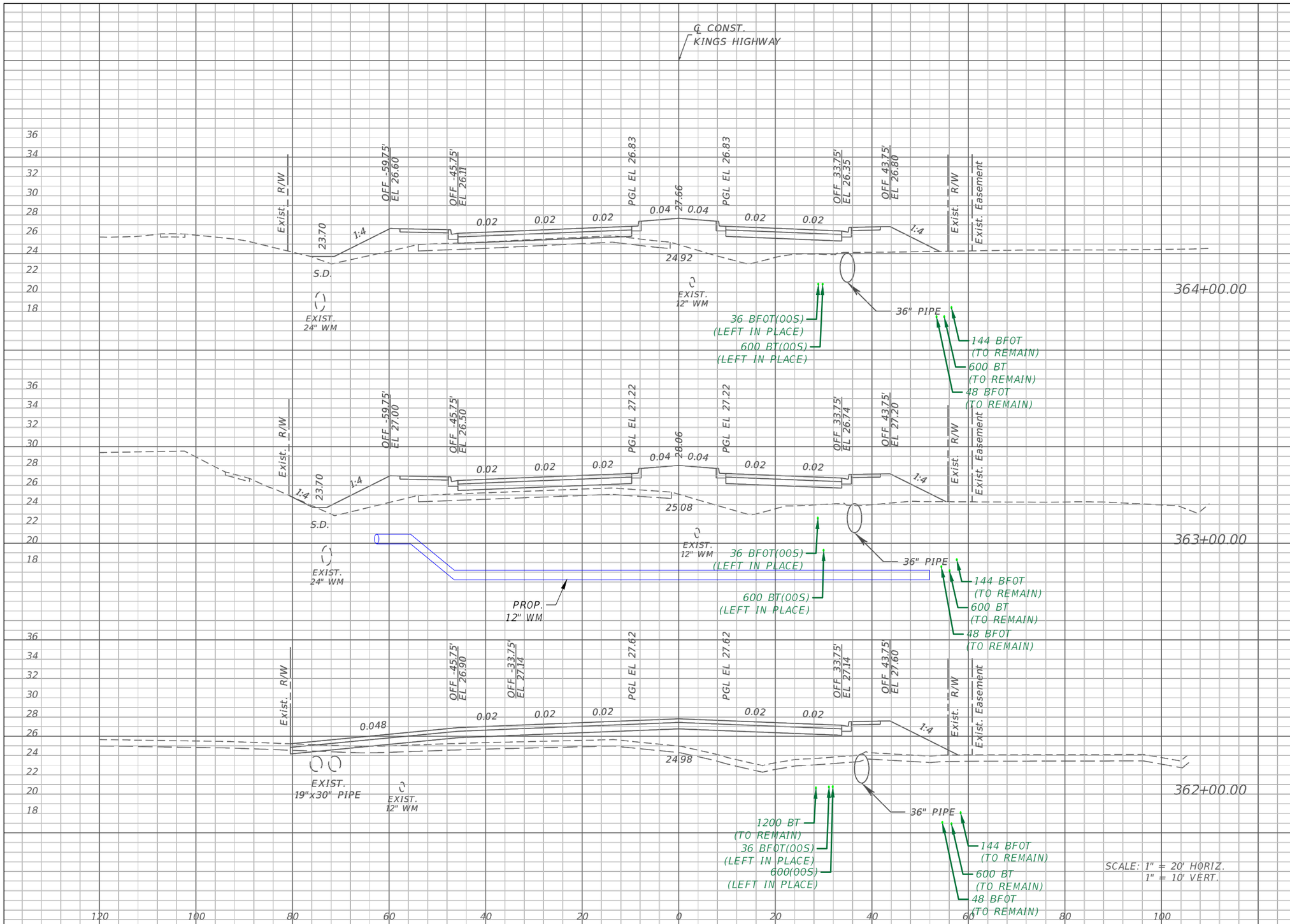
CROSS SECTIONS

SHEET NO. 32

Gallegos, Camerino 11/20/2024 1:59:53 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg



	Regular Exc.		Embankment	
	A	V	A	V
364+00.00	0	1	164	697
363+00.00	0	3	212	745
362+00.00	1	13	190	770

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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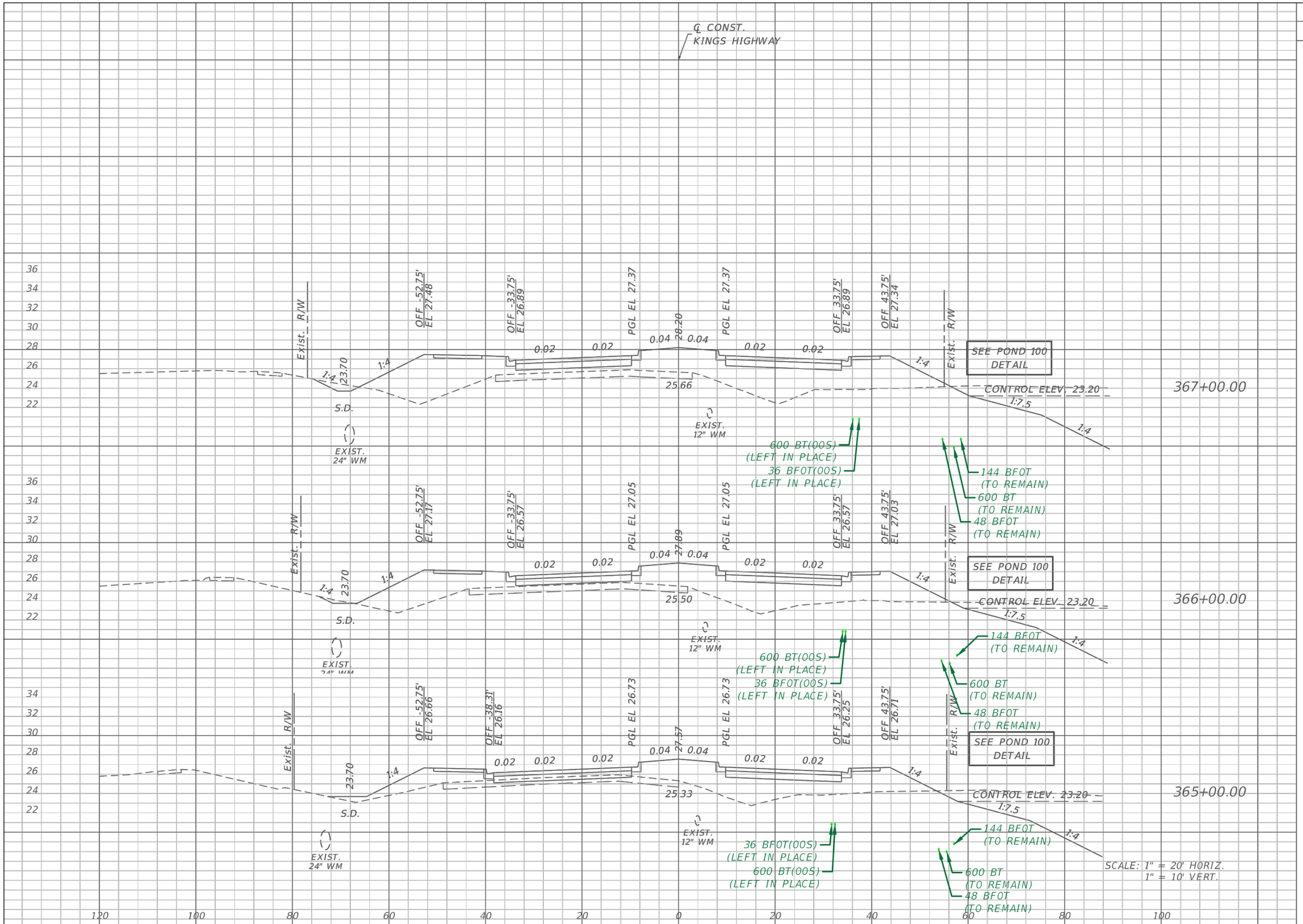
CROSS SECTIONS

SHEET NO. 33

Gallegos, Camerino 11/20/2024 1:59:54 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
6	14	255	867
2	4	213	674
0	0	151	584

REVISIONS			
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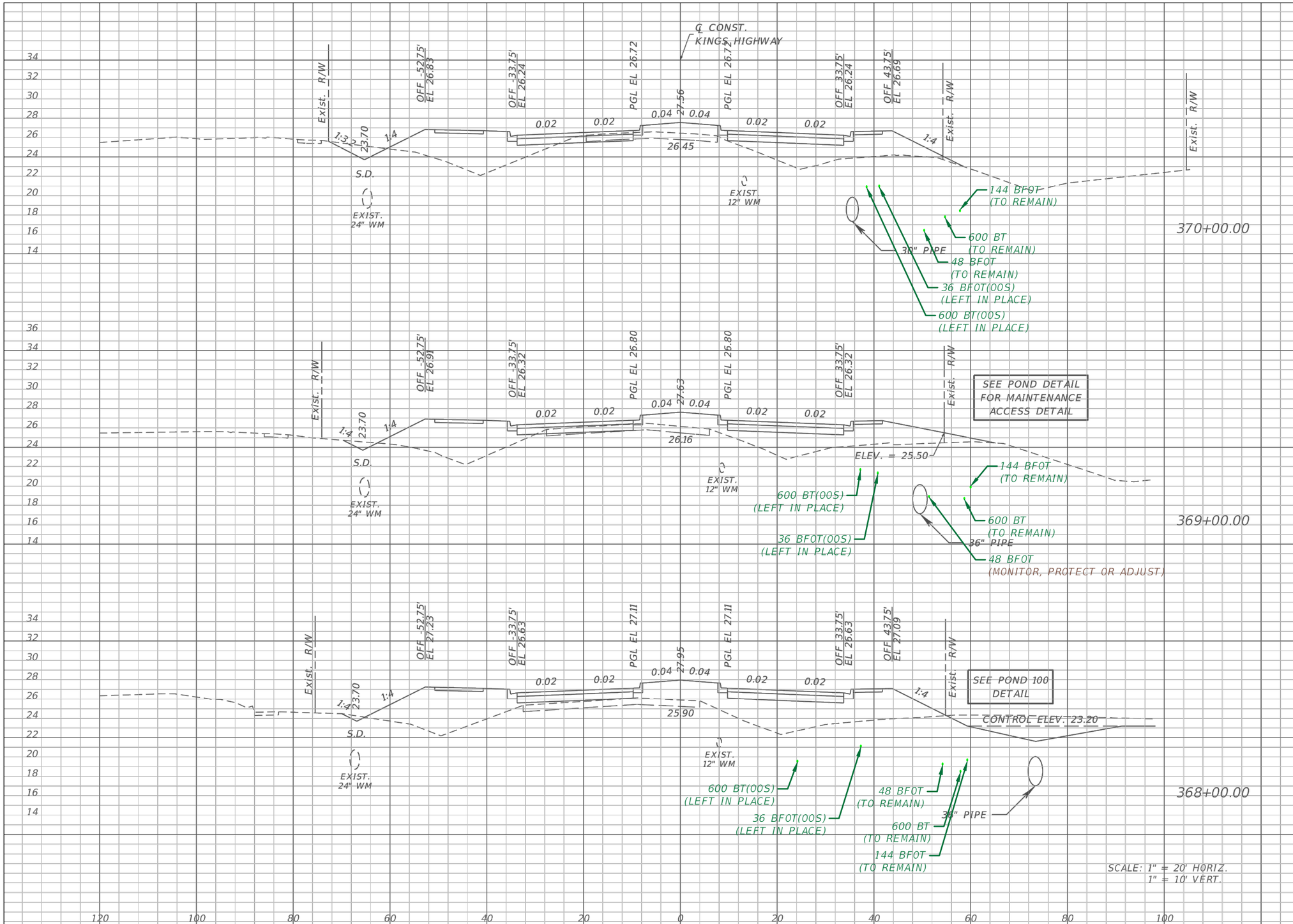
CROSS SECTIONS

SHEET NO. 34

Gallegos, Camerino 11/20/2024 1:59:55 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
15	42	169	634
8	26	173	757
6	22	235	907

REVISIONS			
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CenturyLink™

CHARLOTTE COUNTY
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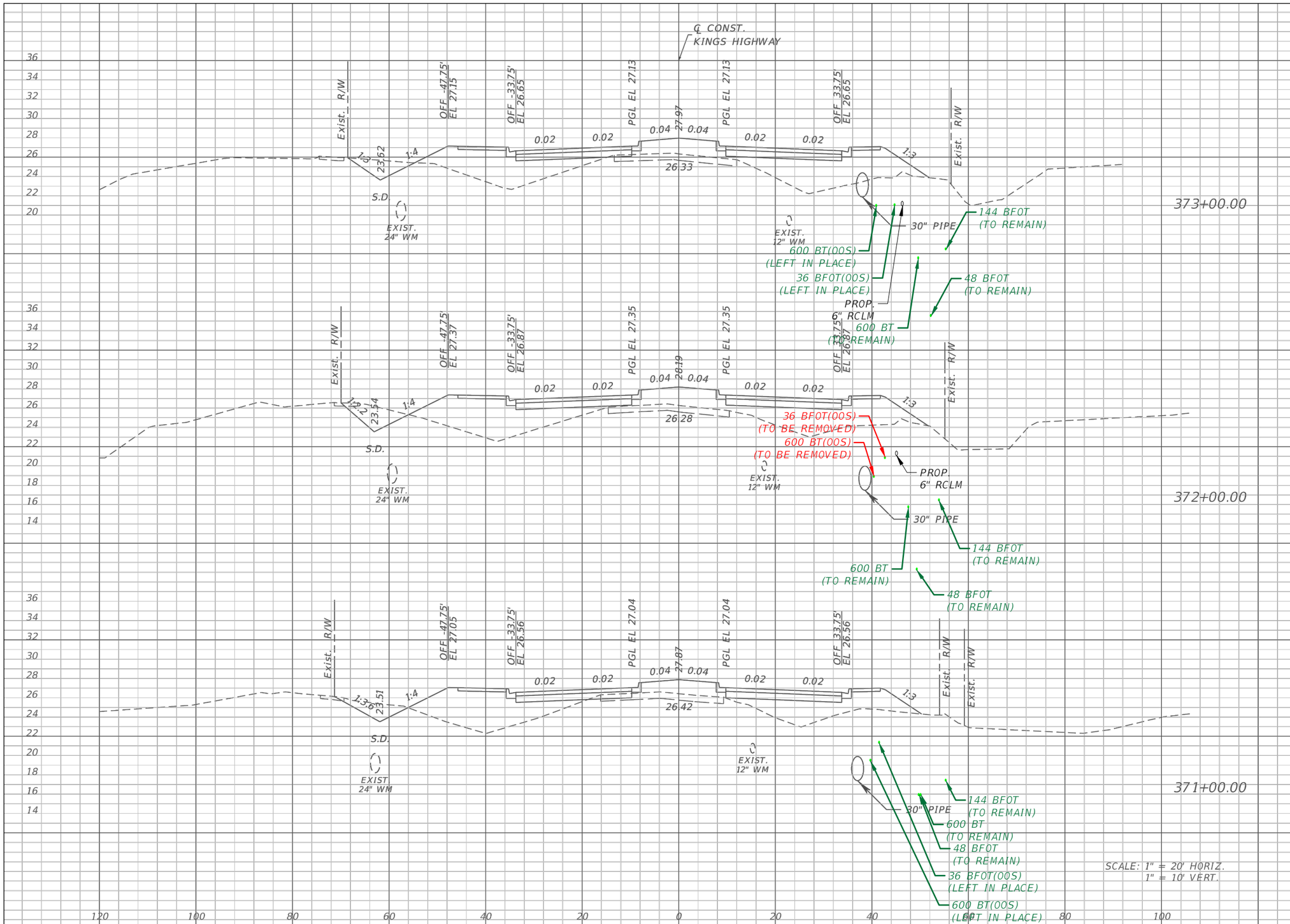
CROSS SECTIONS

SHEET NO. 35

Gallegos, Camerino 11/20/2024 1:59:56 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
14	60	198	741
18	60	202	694
14	53	173	633

REVISIONS			
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CHARLOTTE COUNTY
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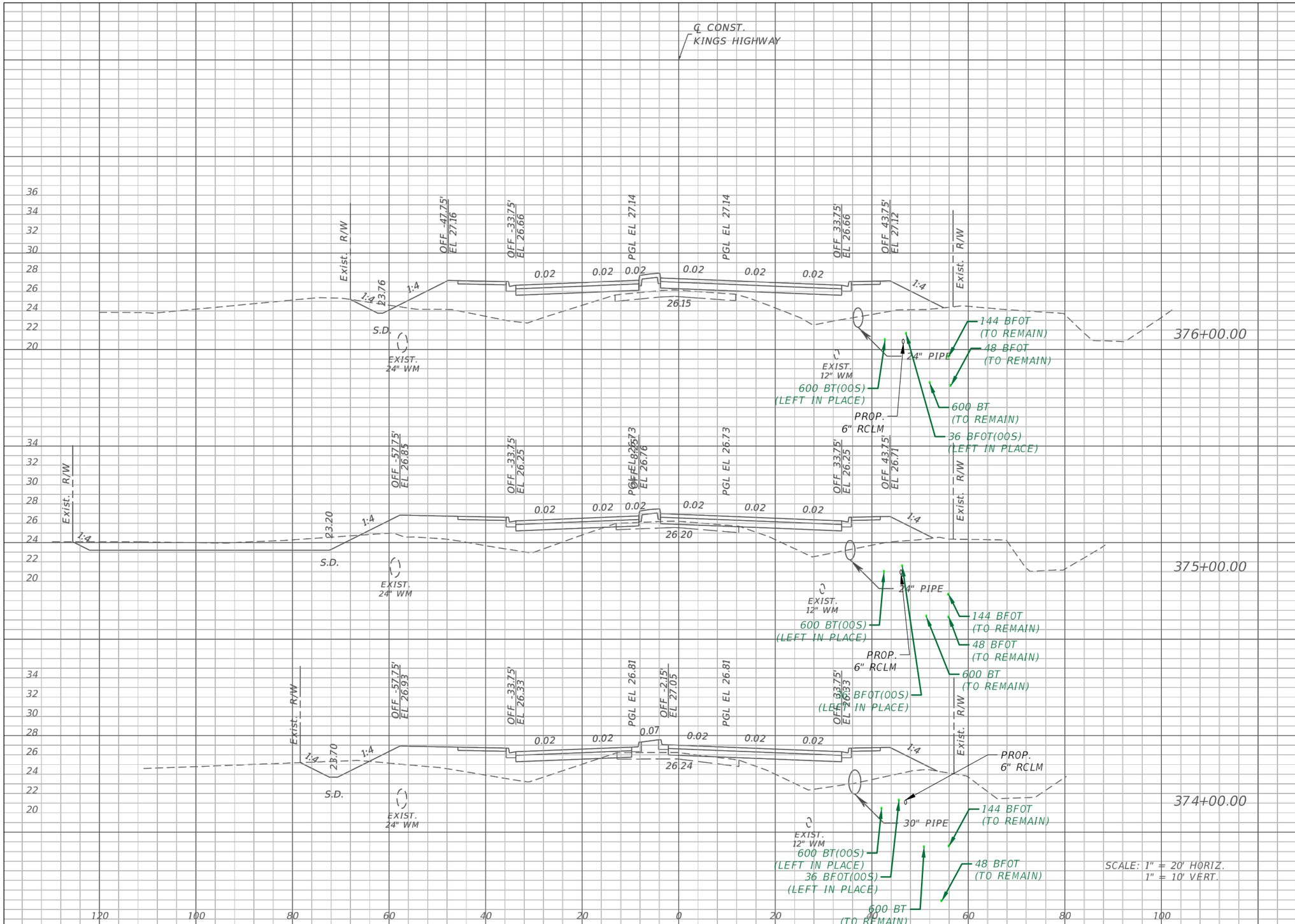
CROSS SECTIONS

SHEET NO. 36

Gallegos, Camerino 11/20/2024 1:59:56 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
5	79	198	635
38	103	145	550
18	60	152	649

REVISIONS			
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CHARLOTTE COUNTY
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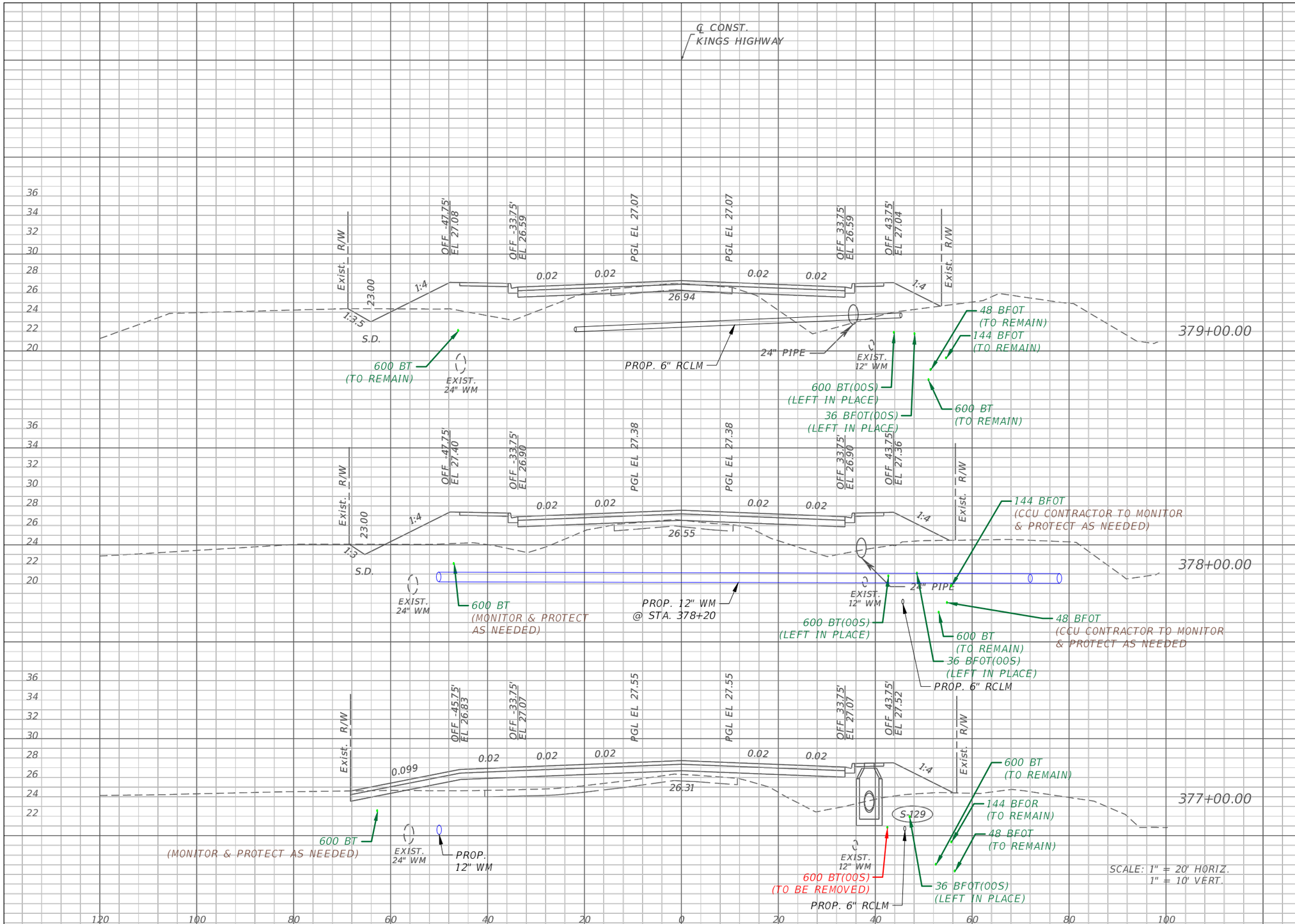
CROSS SECTIONS

SHEET NO. 37

Gallegos, Camerino 11/20/2024 1:59:57 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
10	26	161	645
4	19	187	649
6	21	163	670

REVISIONS			
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CHARLOTTE COUNTY
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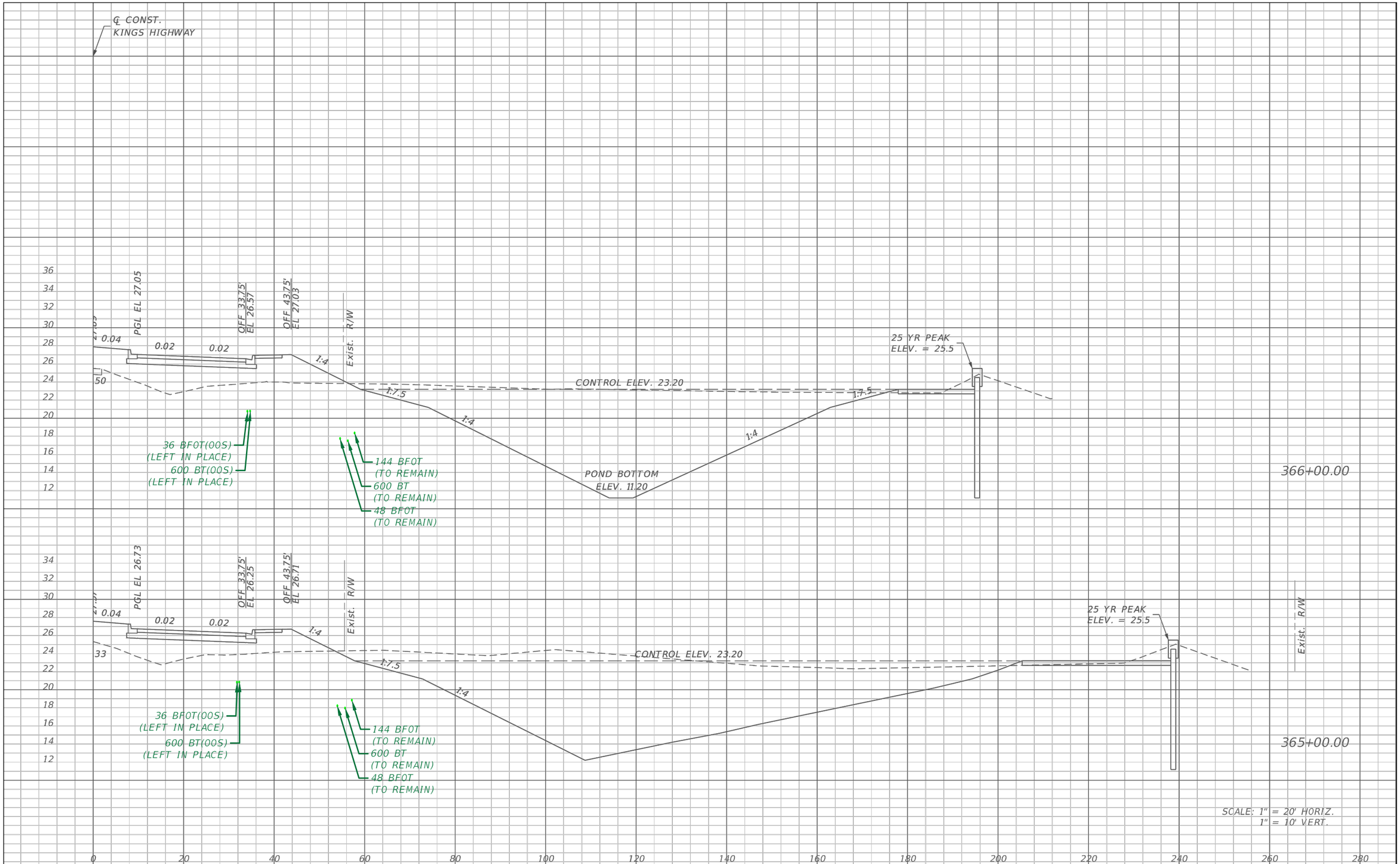
CROSS SECTIONS

SHEET NO. 38

Gallegos, Camerino 11/20/2024 1:59:58 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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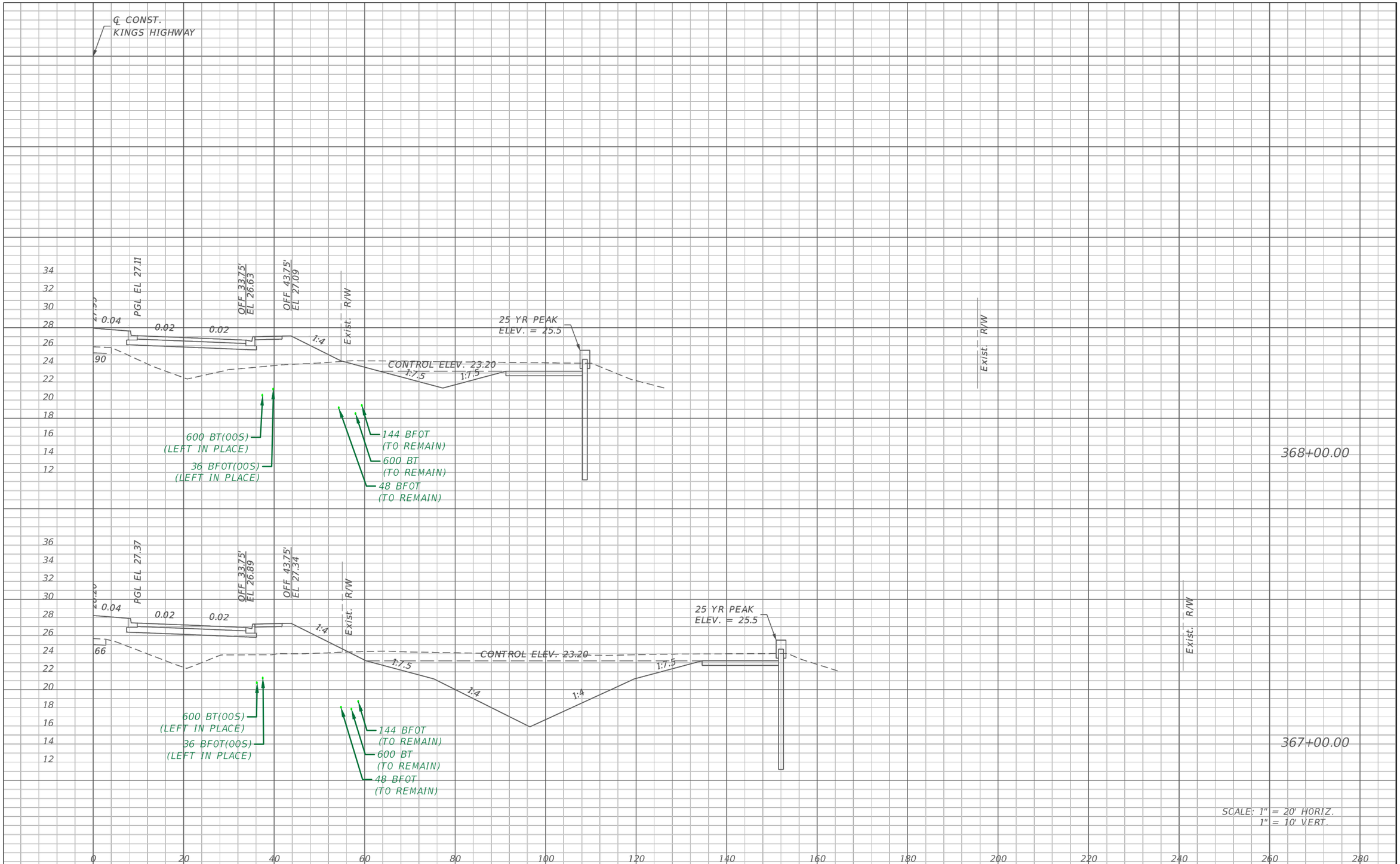
CROSS SECTIONS
POND 100

SHEET NO. 39

Gallegos, Camerino 11/20/2024 1:59:59 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CenturyLink™

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

CROSS SECTIONS
POND 100

SHEET NO. 40

Gallegos, Camerino 11/20/2024 2:00:00 PM C:\68\68-0159.00 LUMEN FL PTCT\68-0159.34 ST P602323 Kings Hwy Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0159.34 RGB-CTL_X SECTIONS.dwg

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Charlotte County has **Kings Highway Widening - from Sandhill Blvd to DeSoto County Line**. This project may include impacts to public utilities within the corridor.

General Description of the Project:

This project will be constructing: 2 to 4 lane widening of existing Kings Highway with associated drainage, street lighting and utility (CCU) improvements.

Project Schedule:

- Design Started: February 2023
  - 30% Plans Delivered to Utility: NA
  - Comments Received from Utility: NA
  - 60% Plans Delivered to Utility: NA
  - Comments Received from Utility: NA
  - 90% Plans Delivered to Utility: September 2024
  - Comments Received from Utility: TBD
- 100% Plans Dated: TBD
- Acquisition Started: NA

Anticipated Schedule

- Acquisition Complete: NA
- Bidding Starts: Est Q4 2024
- Construction Starts: Est Q1/Q2 2025
- Construction Complete: Est Q2/Q3 2026

County Project Manger

Jeff Keyser
410 Taylor Street, Unit #104
Punta Gorda, Florida 33950
Phone: (941) 575-3644
Email: jeff.keyser@charlottecountyfl.gov

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

To help ensure all parties have an understanding of what your company needs to accomplish to allow the construction to be completed, Charlotte County is requesting you detail the conflicts the proposed design has with your facilities.

Based on the 90% construction plans dated September 2024, I have determined there are:

_____ No identified conflicts with our facilities

Please sign this form and return it to the County's Project Manager

OR

___X___ Conflicts have been identified with our facilities.

Please detail each task you will need accomplished to resolve the identified conflicts on the following sheet(s), then sign this form and return it along will all associated conflict sheet(s), to the County's Project Manager

---

Submitted by __Rae Register_____ representing __CenturyLink Communications, LLC_

(Print Name) (Company Name)

on _____. Total number of pages included _____28_____.

(Date)

_____

(Signature)

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 1

1. **What is the conflict?**
   48-BFO.

2. **Location or Limits (using construction plans stationing and offsets):**
   346+79, 0'-23'RT.

3. **Proposed resolution:**
   Monitor Protect or Adjust.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of S-102.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of S-102.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to perform locates of BFO and Monitor, Protect od Adjust as needed.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 2

1. **What is the conflict?**
   36-BFO (OOS) & 600-BT (OOS)

2. **Location or Limits (using construction plans stationing and offsets):**
   355+42, 38'-41' RT to 355+87, 38'-41' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of S-109.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of S-109.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to dig/expose and remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 3

1. **What is the conflict?**
   48-BFO.

2. **Location or Limits (using construction plans stationing and offsets):**
   355+52, 42' RT to 355+82, 43' RT.

3. **Proposed resolution:**
   Monitor Protect or Adjust.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of S-109.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of S-109.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to perform locates of BFO and Monitor, Protect od Adjust as needed.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 4

1. **What is the conflict?**
   36-BFO (OOS).

2. **Location or Limits (using construction plans stationing and offsets):**
   357+23, 40' RT to 357+38, 40' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking of Light Pole.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of light pole.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to dig/expose and remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 5

1. **What is the conflict?**
   48-BFO.

2. **Location or Limits (using construction plans stationing and offsets):**
   357+23, 45' RT to 357+38, 45' RT.

3. **Proposed resolution:**
   Monitor, Protect or Adjust.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking of Light Pole.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of light pole.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to perform locates of BFO and Monitor, Protect od Adjust as needed.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 6

1. **What is the conflict?**
   <u>36-BFO (OOS) & 600-BT (OOS)</u>

2. **Location or Limits (using construction plans stationing and offsets):**
   <u>358+00, 33'-40' RT to 360+85, 34' RT.</u>

3. **Proposed resolution:**
   <u>To Be Removed.</u>

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   <u>Staking and Construction of S-113 and 36" Pipe.</u>

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   <u>3 to 5 days notification prior to construction of S-113 & Pipe.</u>

6. **Time required to resolve this conflict once Item #4 is complete?**
   <u>2 days to dig/expose and remove.</u>

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   <u>Not aware of any.</u>

8. **Other Information:**
   <u>Provide as much lead time as possible for CenturyLink to mobilize.</u>

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 7

1. **What is the conflict?**
   <u>1-4" Conduit with 600-BT.</u>

2. **Location or Limits (using construction plans stationing and offsets):**
   <u>361+57, 29'-49' RT.</u>

3. **Proposed resolution:**
   <u>Monitor Protect or Adjust.</u>

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   <u>Staking and Construction of 36" Pipe.</u>

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   <u>3 to 5 days notification prior to construction of 36" Pipe.</u>

6. **Time required to resolve this conflict once Item #4 is complete?**
   <u>1 day to perform locates of BT and Monitor, Protect or Adjust.</u>

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   <u>Not aware of any.</u>

8. **Other Information:**
   <u>Provide as much lead time as possible for CenturyLink to mobilize.</u>

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 8

1. **What is the conflict?**
   Abandoned Pedestal #23024.

2. **Location or Limits (using construction plans stationing and offsets):**
   362+34, 31' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Nothing.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to work in the area.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to remove pedestal.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 9

1. **What is the conflict?**
   Abandoned Splice Cabinet #43943.

2. **Location or Limits (using construction plans stationing and offsets):**
   362+55, 30' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Nothing.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to work in the area.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to remove splice cabinet.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 10

1. **What is the conflict?**
   36-BFO (OOS) & 600-BT (OOS) & UG Marker

2. **Location or Limits (using construction plans stationing and offsets):**
   364+43, 31' RT to 364+73, 31' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking of S-118.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of S-118.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to dig/expose and remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 11

1. **What is the conflict?**
   48-BFO, 600-BT, & 144-BFO.

2. **Location or Limits (using construction plans stationing and offsets):**
   364+58, 54'-57' RT to 364+80, 54'-57' RT.

3. **Proposed resolution:**
   Monitor Protect or Adjust.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of 36" Pipe.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of 36" Pipe.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to perform locates of BT & BFO and Monitor, Protect or Adjust.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 12

1. **What is the conflict?**
   600-BT & 144-BFO.

2. **Location or Limits (using construction plans stationing and offsets):**
   368+46, 58'-60' RT to 368+73, 59'-60' RT.

3. **Proposed resolution:**
   Monitor Protect or Adjust.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of 36" Pipe.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of 36" Pipe.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to perform locates of BT & BFO and Monitor, Protect or Adjust.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 13

1. **What is the conflict?**
   48-BFO.

2. **Location or Limits (using construction plans stationing and offsets):**
   368+77, 52' RT to 369+07, 51' RT.

3. **Proposed resolution:**
   Monitor Protect or Adjust.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of 36" Pipe.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of 36" Pipe.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to perform locates of BT and Monitor, Protect or Adjust.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 14

1. **What is the conflict?**
   36-BFO (OOS) & 600-BT (OOS).

2. **Location or Limits (using construction plans stationing and offsets):**
   369+22, 38'-41' RT to 369+79, 38'-41' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of S-123 and 36" Pipe.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of S-123 & 36" Pipe.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to dig/expose and remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 15

1. **What is the conflict?**
   36-BFO (OOS).

2. **Location or Limits (using construction plans stationing and offsets):**
   370+43, 41' RT to 370+58, 41' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking of light pole.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of light pole.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to dig/expose and remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 16

1. **What is the conflict?**
   Pedestal.

2. **Location or Limits (using construction plans stationing and offsets):**
   370+79, 42' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of sidewalk.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of sidewalk.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 17

1. **What is the conflict?**
   36-BFO (OOS) & 600-BT (OOS).

2. **Location or Limits (using construction plans stationing and offsets):**
   371+43, 40'-42' RT to 371+73, 41'-42' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of S-125 and double 19"x30" Pipe.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of S-125 & 19"x30" Pipes.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to dig/expose and remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 18

1. **What is the conflict?**
   <u>36-BFO (OOS) & 600-BT (OOS).</u>

2. **Location or Limits (using construction plans stationing and offsets):**
   <u>371+91, 40'-43' RT to 372+42, 40'-44' RT.</u>

3. **Proposed resolution:**
   <u>To Be Removed.</u>

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   <u>Staking and Construction of S-126.</u>

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   <u>3 to 5 days notification prior to construction of S-126.</u>

6. **Time required to resolve this conflict once Item #4 is complete?**
   <u>1 day to dig/expose and remove.</u>

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   <u>Not aware of any.</u>

8. **Other Information:**
   <u>Provide as much lead time as possible for CenturyLink to mobilize.</u>

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 19

1. **What is the conflict?**
   36-BFO (OOS) & 600-BT (OOS).

2. **Location or Limits (using construction plans stationing and offsets):**
   374+82, 42'-46' RT to 374+99, 42'-46' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of light pole.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of light pole.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to dig/expose and remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 20

1. **What is the conflict?**
   600-BT (OOS).

2. **Location or Limits (using construction plans stationing and offsets):**
   376+85, 43' RT to 377+15, 43' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of S-129 & light pole.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of S-129 & light pole.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to dig/expose and remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 21

1. **What is the conflict?**
   600-BT (OOS).

2. **Location or Limits (using construction plans stationing and offsets):**
   376+94, 29'-49' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of S-129 & 24" Pipe.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of S-129 & 24" Pipe.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to dig/expose and remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 22

1. **What is the conflict?**
   UG Marker.

2. **Location or Limits (using construction plans stationing and offsets):**
   378+17, 49' RT.

3. **Proposed resolution:**
   Adjust to Final Grade.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Construction of final grading.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to final grading.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to adjust to final grade.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 23

1. **What is the conflict?**
   600-BT.

2. **Location or Limits (using construction plans stationing and offsets):**
   378+10, 47' LT to 378+30, 47' LT.

3. **Proposed resolution:**
   Monitor, Protect or Adjust.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking & Construction of Light Pole.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of light pole.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to perform locates of BT and Monitor, Protect or Adjust as needed.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 24

1. **What is the conflict?**
   Pedestal #24209.

2. **Location or Limits (using construction plans stationing and offsets):**
   378+80, 41' RT.

3. **Proposed resolution:**
   To Be Removed.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   None.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction in area.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 25

1. **What is the conflict?**
   Pedestal #106851.

2. **Location or Limits (using construction plans stationing and offsets):**
   379+08, 50' LT.

3. **Proposed resolution:**
   Adjust to Final Grade.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Construction of final grading.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to final grading.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to adjust to final grade.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.

Charlotte County / CenturyLink

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 26

1. **What is the conflict?**
   36-BFO (OOS) & 600-BT (OOS).

2. **Location or Limits (using construction plans stationing and offsets):**
   379+22, 44'-47' RT to 379+37, 44'-47' RT.

3. **Proposed resolution:**
   To Be Removed.

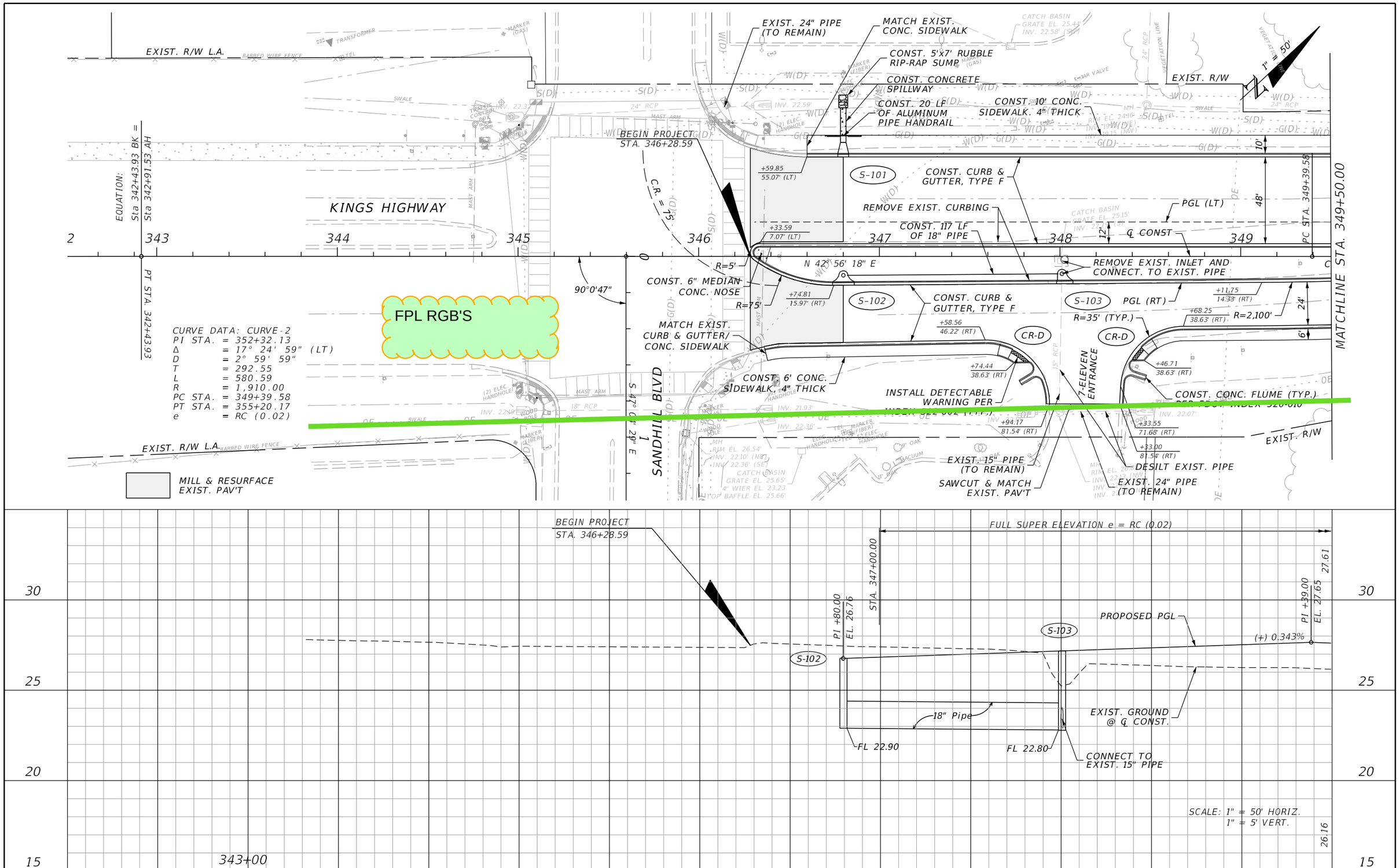
4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking and Construction of light pole.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to construction of light pole.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to dig/expose and remove.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for CenturyLink to mobilize.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 342+00 TO STA. 349+50

SHEET NO. 11

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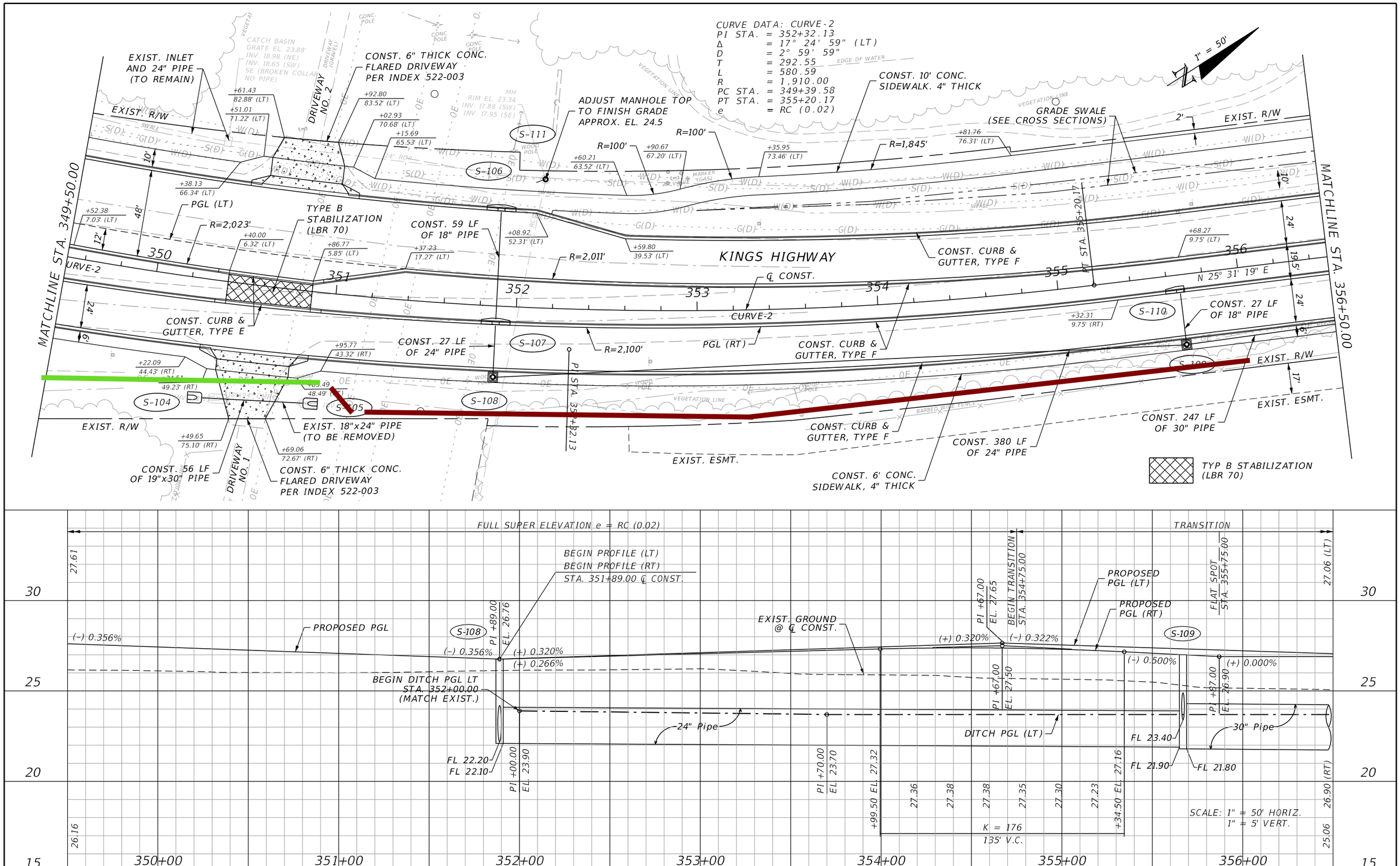

REVISIONS			
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JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 349+50 TO STA. 356+50

SHEET NO. 12

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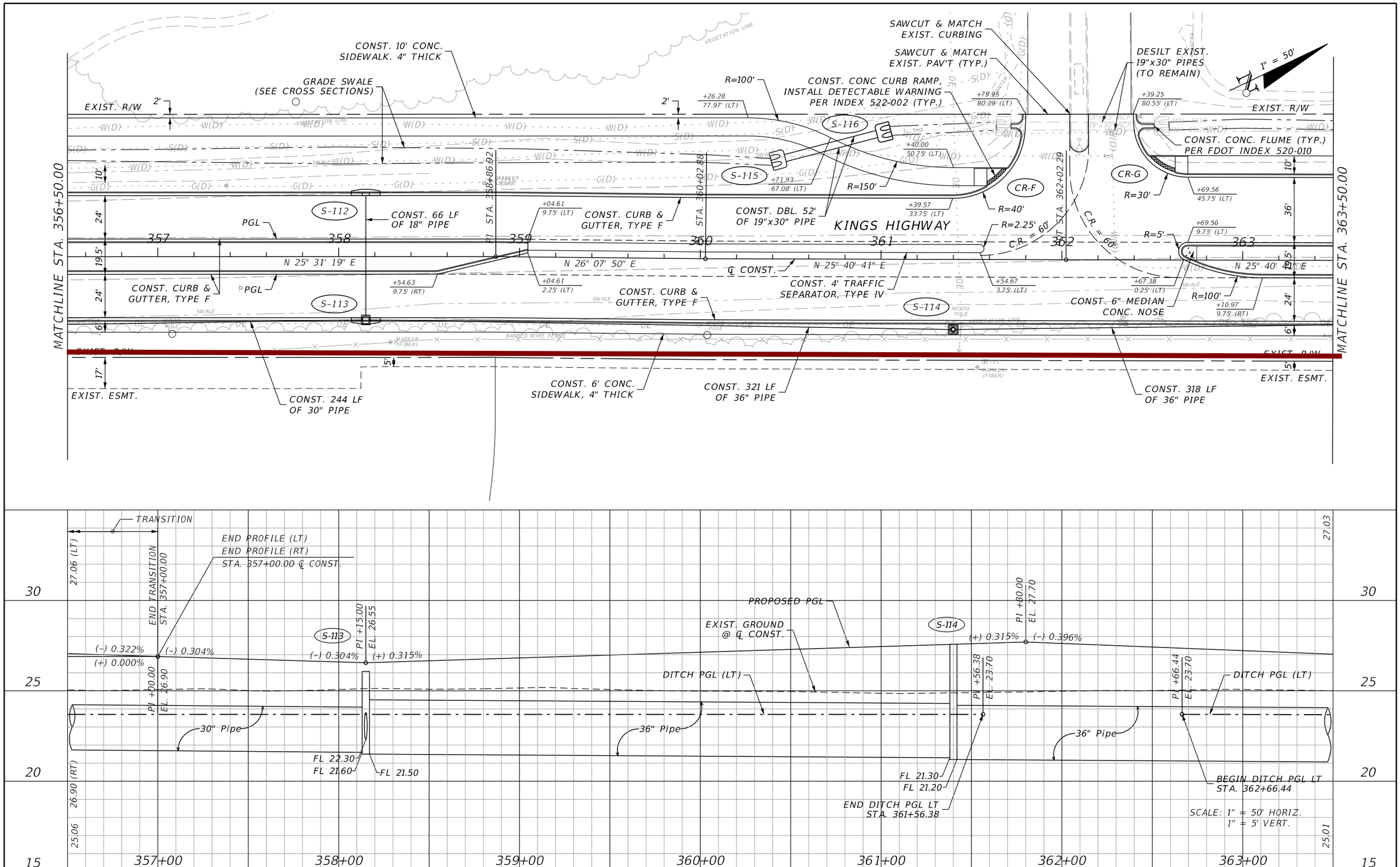

REVISIONS			
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17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
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RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 356+50 TO STA. 363+50

SHEET NO. 13

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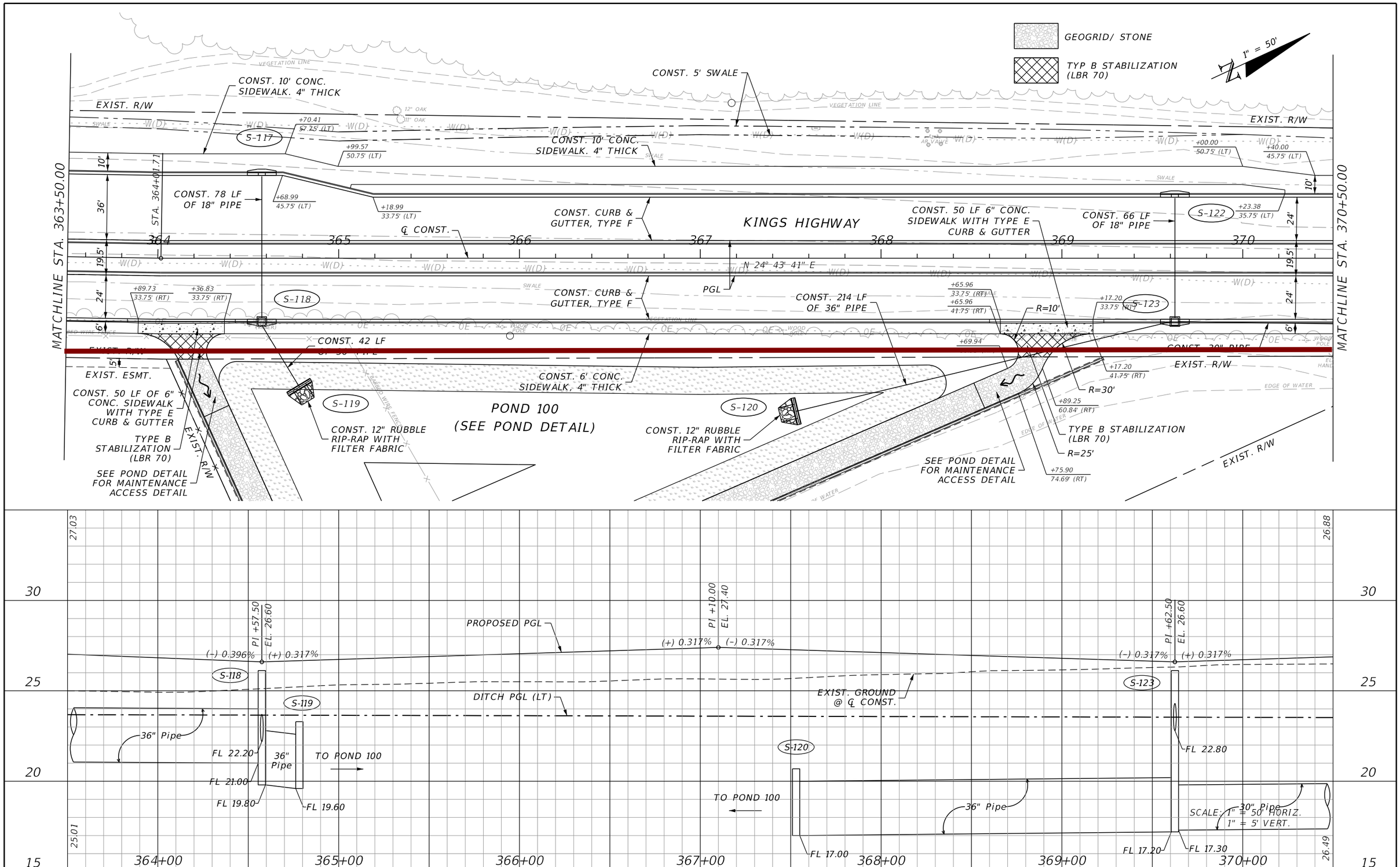

REVISIONS			
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JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 363+50 TO STA. 370+50

SHEET NO. 14

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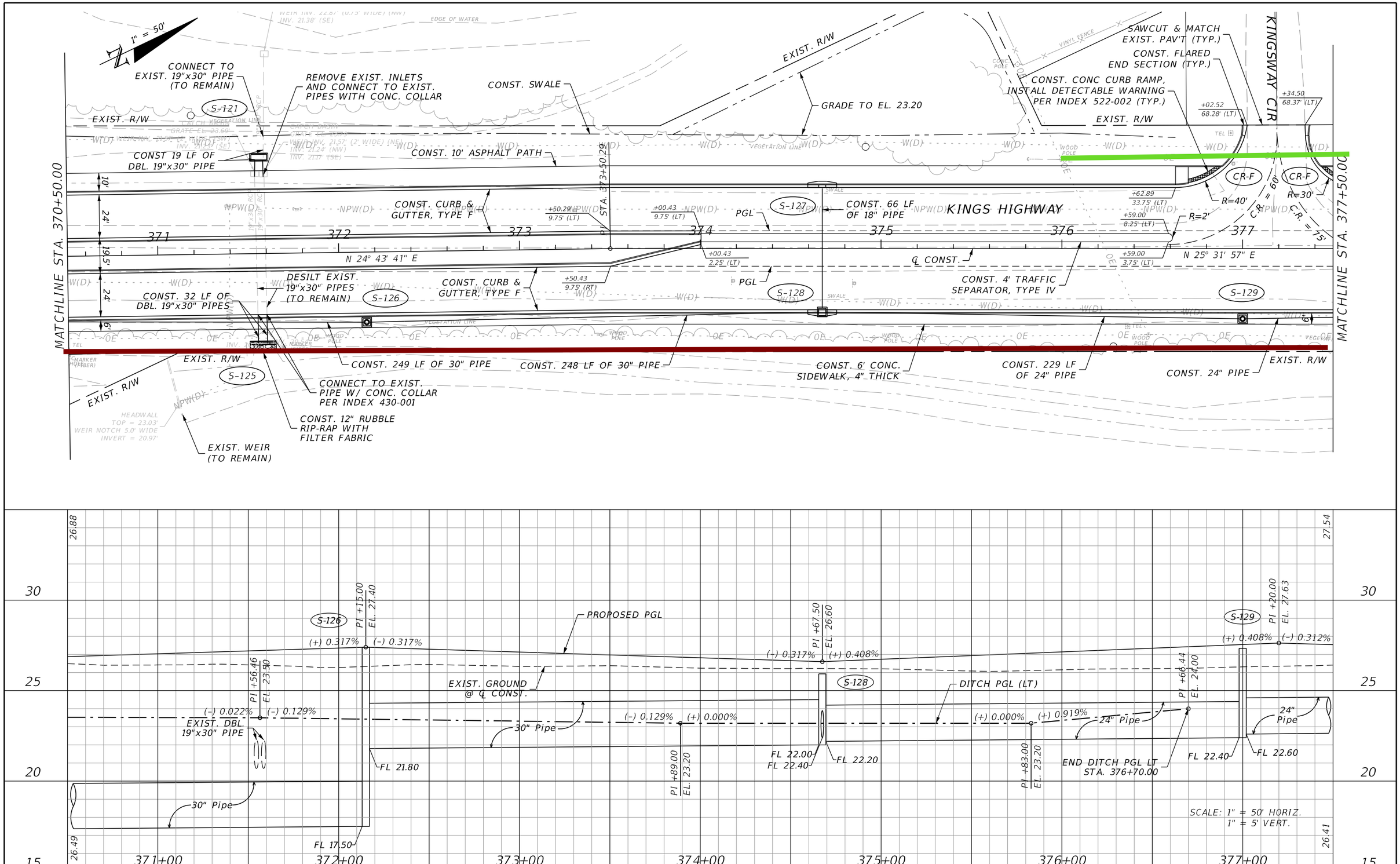

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 370+50 TO STA. 377+50

SHEET NO. 15

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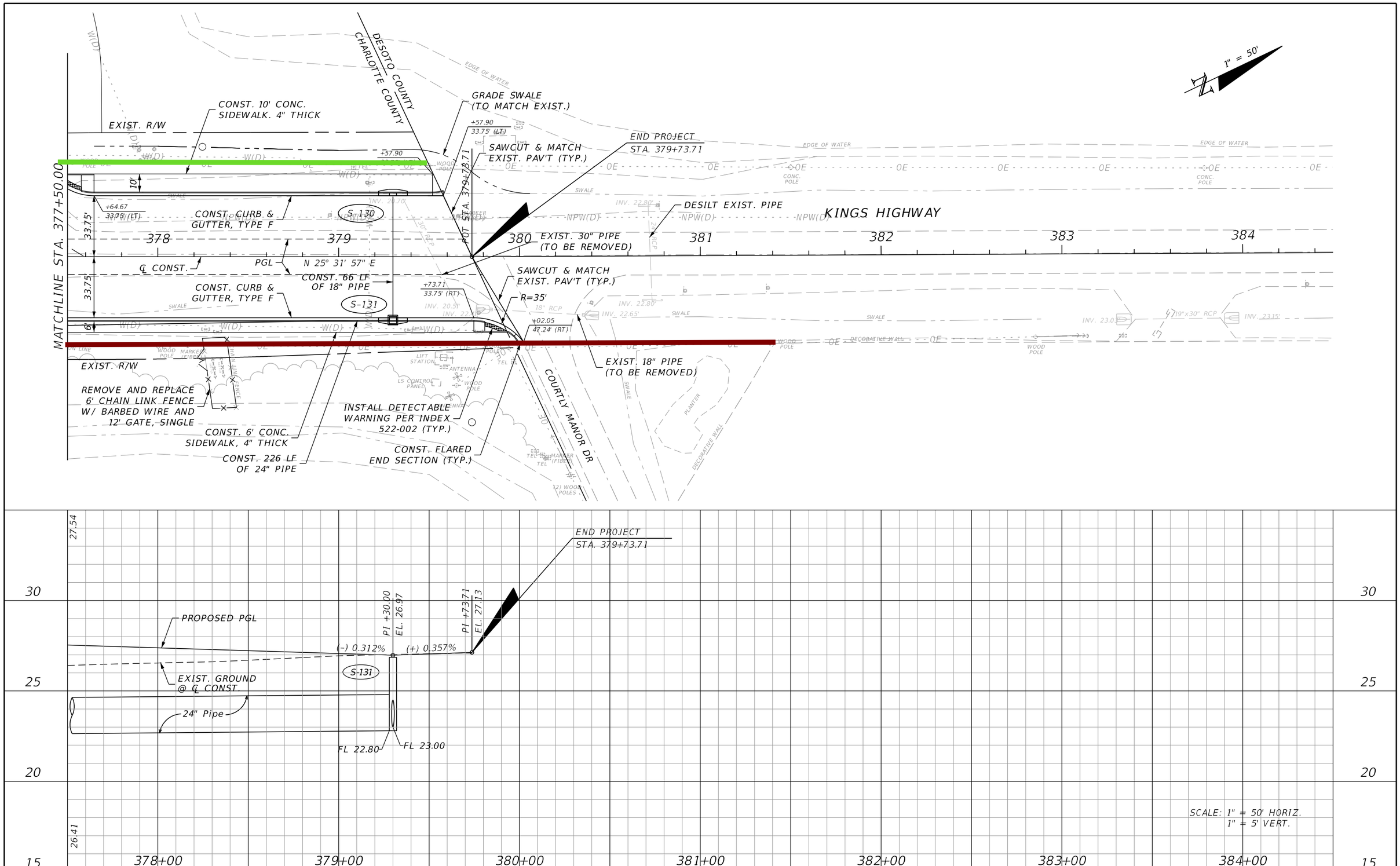

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
	CHARLOTTE	20236025-000

PLAN & PROFILE
STA. 377+50 TO STA. 384+50

SHEET NO. 16

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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

Pursuant to Section 337.403 F.S., the UAO and FDOT agree to the UAO's need for relocation or adjustment to its utilities and FDOT's need for a schedule for the UAO to effect the relocation or adjustment. This utility work schedule is based on FDOT plans dated in the project information box below. Any deviation by FDOT or its contractor from these plans, may void this utility work schedule. Upon notification by FDOT of a change to these plans, the UAO may negotiate a new utility work schedule. The UAO agrees to notify FDOT and the contractor in writing prior to starting, stopping, resuming, and completing work in accordance with this utility work schedule. The UAO shall obtain a utility permit and comply with requirements of the 2017 Utility Accommodation Manual (UAM) for all work done under this utility work schedule. The UAO is not responsible for events beyond the control of the UAO that could not be reasonably anticipated by the UAO and which could not be avoided by the UAO with exercise of due diligence at the time of the occurrence.

FDOT PROJECT INFORMATION

Financial Project ID: 20236025-000	Federal Project ID:
State Road Number: Kings HWY	County:
FDOT Plans Dated:	District Document No.:

UTILITY AGENCY/OWNER (UAO)

Utility Company: Florida Power & Light		
UAO Project Rep: Chris McJunkin	Phone: 941-267-7476	E-mail: chris.mcjunkin@fpl.com
UAO Field Rep:	Phone:	E-mail:

UTILITY SIGNATURE

I have reviewed the FDOT plans referenced above and submit this utility work schedule in compliance with UAM Section 5 and agree to be bound by the terms of this utility work schedule.

UAO Rep. _____ Date _ / __ / ____

Name Chris McJunkin

Title Relocation Coordinator

ENGINEER OF RECORD SIGNATURE

I attest this utility work schedule is compatible with the FDOT plans referenced above.

EOR. _____ Date __ / __ / ____

Name _____

Title _____

APPROVAL BY DISTRICT UTILITIES

This utility work schedule is complete and acceptable to FDOT.

FDOT Rep. _____ Date __ / __ / ____

Name _____

Title _____

SECTION A: SUMMARY OF UTILITY WORK

The below days are the total numbers of days shown for all activities in Section C of this utility work schedule. The breakdown of how these days are to be incorporated into the FDOT project and the dependence of these days upon the completion of other activities by the UAO or others is shown in Section C.

Days prior to FDOT project construction: _____ Days during FDOT project construction: _____

FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

Financial Project ID: 20236025-000
Utility Company: Florida Power & Light
FDOT Plans Dated:

SECTION B: UAO SPECIAL CONDITIONS/CONSTRAINTS

. All work to be completed during normal FPL working hours (8:00 AM to 4:00 PM, Monday – Friday) Excluding Holidays. Work outside normal FPL hours requires at least 15 days notice.
· All Distribution Poles lines and attachments lines (26KV and below) within the boundaries of this project are to remain in place and energized, unless otherwise mentioned in Section C.
· All existing FPL facilities must remain in place and energized until the new facilities are installed and operational.
· FPL Facilities are to remain accessible throught the length of this project.
· All existing FPL Owned Street Lighting, along traveled roads, will remain in place until the new temporary or permanent facilities are installed and operational.
· All new services are to be coordinated through the local FPL office.
Design time frames are subject to a minimum 60 days.
· Time frames itemized in Section C under "Consecutive Calendar Days" include only actual anticipated construction days.
- FPL will locate by hand digging to expose their facilities and protect their facilities, protect may include but is not limited to the use of sheeting, shoring, and bracing of facilities and should be decided upon by field representatives of in coordination with the Department's and or Department's Contractor.

FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

Financial Project ID: 441552-1-52-01
Utility Company: Florida Power & Light
FDOT Plans Dated:

SECTION C: UAO's WORK ACTIVITIES

Act. No.	Utility Facility (type, size, material, status)	From Station/ Offset	To Station/ Offset	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	Consecutive Calendar Days During Const.
1	REMOVE POLES	351+00, 47R	379+80,30RT	REMOVE POLES AND OE	PLACING NEW POLES AND WIRE			40
2	INSTALL POLES	351+00, 59RT	379+80,47RT	INSTALL POLES AND OE	ROW STAKED/PERMITS ISSUED AND ROW CLEARED			40

FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

Southwest Florida
Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only)
On the Internet at: WaterMatters.org

An Equal Opportunity Employer

Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
1-800-492-7862 (FL only)

Sarasota Service Office
78 Sarasota Center Boulevard
Sarasota, Florida 34240-9770
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

November 06, 2025

Charlotte County
Attn: Joanne M. Vernon, P.E.
410 Taylor Rd., Unit 104
Punta Gorda, FL 33950

Subject: **Notice of Intended Agency Action - Approval**
ERP Individual Construction

Project Name:	Kings Highway Widening
App ID/Permit No:	894010 / 43047813.000
County:	Charlotte
Sec/Twp/Rge:	S06/T40S/R23E, S05/T40S/R23E, S32/T39S/R23E

Dear Permittee(s):

The Southwest Florida Water Management District (District) has completed its review of the application for Environmental Resource Permit. Based upon a review of the information you have submitted, the District hereby gives notice of its intended approval of the application.

The File of Record associated with this application can be viewed at http://www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx and is also available for inspection Monday through Friday, except for District holidays, from 8:00 a.m. through 5:00 p.m. at the District's Tampa Service Office, 7601 U.S. Highway 301 North, Tampa, Florida 33637.

If you have any questions or concerns regarding the application or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

David Kramer, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

cc: Ryan Bell, P.E., Johnson Engineering
Patricia Bell, P.E.

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Water Management District

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County:	Charlotte
Sec/Twp/Rge:	S06/T40S/R23E, S05/T40S/R23E, S32/T39S/R23E

Dear Permittee(s):

The Southwest Florida Water Management District (District) is in receipt of your application for the Environmental Resource Permit. Based upon a review of the information you submitted, the application is approved.

Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action on the permit application described in this letter.

If approved construction plans are part of the permit, construction must be in accordance with these plans. These drawings are available for viewing or downloading through the District's Application and Permit Search Tools located at www.WaterMatters.org/permits.

The District's action in this matter only becomes closed to future legal challenges from members of the public if such persons have been properly notified of the District's action and no person objects to the District's action within the prescribed period of time following the notification. The District does not publish notices of agency action. If you wish to limit the time within which a person who does not receive actual written notice from the District may request an administrative hearing regarding this action, you are strongly encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Publishing notice of agency action will close the window for filing a petition for hearing. Legal requirements and instructions for publishing notices of agency action, as well as a noticing form that can be used, are available from the District's website at www.WaterMatters.org/permits/noticing. If you publish notice of agency action, a copy of the affidavit of publication provided by the newspaper should be sent to the District's Tampa Service Office for retention in this permit's File of Record.

If you have any questions or concerns regarding your permit or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

David Kramer, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

Enclosures: Approved Permit w/Conditions Attached
As-Built Certification and Request for Conversion to Operation Phase
Notice of Authorization to Commence Construction
Notice of Rights

cc: Ryan Bell, P.E., Johnson Engineering
Patricia Bell, P.E.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE

INDIVIDUAL CONSTRUCTION
PERMIT NO. 43047813.000

EXPIRATION DATE: **November 06, 2030** **PERMIT ISSUE DATE:** **November 06, 2025**

This permit is issued under the provisions of Chapter 373, Florida Statutes, (F.S.), and the Rules contained in Chapter 62-330, Florida Administrative Code, (F.A.C.). The permit authorizes the Permittee to proceed with the construction of a surface water management system in accordance with the information outlined herein and shown by the application, approved drawings, plans, specifications, and other documents, attached hereto and kept on file at the Southwest Florida Water Management District (District). All construction, operation and maintenance of the surface water management system authorized by this permit shall occur in compliance with Florida Statutes and Administrative Code and the conditions of this permit.

PROJECT NAME: Kings Highway Widening

GRANTED TO: Charlotte County
Attn: Joanne M. Vernon, P.E.
410 Taylor Rd., Unit 104
Punta Gorda, FL 33950

OTHER PERMITTEES: N/A

ABSTRACT: This permit authorization is for the construction of a stormwater management system serving a 12.1-acre government project as named above and as shown on the approved construction drawings. The proposed activities include the widening of Kings Highway to accommodate four 12-foot travel lanes with associated turn lanes, curb and gutter, 10-foot pathway, and a 6-foot sidewalk. One new wet detention pond will provide treatment and attenuation for runoff from the site. The project is located at the intersection of Sandhill Boulevard and Kings Highway and will extend to the intersection of Courtly Mannor Drive and Kings Highway, in Charlotte County. Additional information regarding the stormwater management system, floodplain, wetlands and/or surface waters is stated below and on the permitted construction drawings for this project.

OP. & MAIN. ENTITY: Charlotte County

OTHER OP. & MAIN. ENTITY: N/A

COUNTY: Charlotte

SEC/TWP/RGE: S06/T40S/R23E, S05/T40S/R23E, S32/T39S/R23E

TOTAL ACRES OWNED OR UNDER CONTROL: 12.10

PROJECT SIZE: 12.10 Acres

LAND USE: Road Projects

DATE APPLICATION FILED: May 15, 2024

AMENDED DATE: N/A

I. Water Quantity/Quality

POND No.	Area Acres @ Top of Bank	Treatment Type
Pond 1	1.14	MAN-MADE WET DETENTION
	Total: **1.14**	

Water Quantity/Quality Comment: The proposed pond provides treatment for runoff from the site via wet detention. Presumptive criteria were utilized in determining the required treatment volume. The system provides attenuation of the post-development 25-year, 24-hour peak discharge rate to the pre-development 25-year, 24-hour peak discharge rate. The plans and calculations reflect the North American Vertical Datum of 1988 (NAVD 88).
A mixing zone is not required.
A variance is not required.

II. 100-Year Floodplain

Encroachment (Acre-Feet of fill)	Compensation (Acre-Feet of excavation)	Compensation Type	Encroachment Result* (feet)
3.85	0.00	Storage Modeling	N/A

Floodplain Comment: Onsite floodplain elevations have been established by the Deep Creek Gully Watershed Management Plan model. Encroachment into the 100-year floodplain has been demonstrated to have no adverse impacts on offsite locations by dynamic stormwater modeling.

*Depth of change in flood stage (level) over existing receiving water stage resulting from floodplain encroachment caused by a project that claims Minimal Impact type of compensation.

III. Environmental Considerations

Wetland/Other Surface Water Information

Wetland/Other Surface Water Name	Total Acres	Not Impacted Acres	Permanent Impacts		Temporary Impacts	
			Acres	Functional Loss*	Acres	Functional Loss*
W-1	0.49	0.00	0.49	0.28	0.00	0.00
W-2	0.35	0.00	0.35	0.10	0.00	0.00
SW-1	0.03	0.03	0.00	0.00	0.00	0.00
SW-2	0.08	0.07	0.01	0.00	0.00	0.00
SW-3	1.12	0.00	1.12	0.00	0.00	0.00
SW-4	0.80	0.80	0.00	0.00	0.00	0.00
SW-5	0.13	0.00	0.13	0.00	0.00	0.00
SW-6	0.72	0.00	0.72	0.00	0.00	0.00
SW-7	0.64	0.00	0.64	0.00	0.00	0.00
Total:	**4.36**	**0.90**	**3.46**	**0.38**	**0.00**	**0.00**

*** For impacts that do not require mitigation, their functional loss is not included.**

Wetland/Other Surface Water Comments:
There are 0.84 acre of wetlands (FLUCCS 641) located within the project area for this permit. Permanent filling and dredging impacts to 0.67 acre of wetlands (FLUCCS 641) will occur for construction of the roadway. Permanent filling and dredging impacts to 0.67 acre of qualifying wetlands were evaluated using the Uniform Mitigation Assessment Method (UMAM) as required pursuant to Chapter 62-345, F.A.C. The results of the UMAM analysis indicate a functional loss of 0.36 units due to the permanent impacts proposed. Secondary wetland impacts to 0.17 acre of qualifying wetlands were evaluated using the UMAM as required pursuant to Chapter 62-345, F.A.C. The results of the Secondary UMAM analysis indicate a functional loss of 0.02 units due to the secondary impacts associated with the project. The results of the UMAM analysis identify a total functional loss of 0.38 units due to the project's proposed permanent and secondary wetland impacts.

There are 3.52 acres of other surface waters features (FLUCCS 510) located within the project area. Permanent dredging and filling impacts to 2.62 acres of the project surface waters will occur for construction of the roadway.

Mitigation Information

Name	Creation		Enhancement		Preservation		Restoration		Enhancement +Preservation		Other	
	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain
Tippen Bay Wetland Mitigation Bank	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
Total:	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.38**

Mitigation Comments:
Wetland mitigation for permanent filling and dredging impacts will be provided by the purchase of 0.38 herbaceous credits from the Tippen Bay Wetland Mitigation Bank, Permit No. 43041757.003. The results of the UMAM analysis indicate a relative functional gain of 0.38 units. The UMAM analysis determined that the mitigation provided by the permit adequately offsets the project's proposed impacts to functional wetland habitat.

Wetland mitigation is not required for permanent filling and dredging impacts to the upland cut ditches pursuant to Subsection 10.2.2.2 of the ERP Applicant's Handbook Vol. I. Under this Subsection, wetland mitigation is not required for impacts to drainage ditches that were constructed in uplands and do not provide significant habitat for threatened or endangered species and were not constructed to divert natural stream flow.

Specific Conditions

1. If the ownership of the project area covered by the subject permit is divided, with someone other than the Permittee becoming the owner of part of the project area, this permit may be terminated, unless the terms of the permit are modified by the District or the permit is transferred pursuant to Rule 40D-1.6105, F.A.C. In such situations, each land owner shall obtain a permit (which may be a modification of this permit) for the land owned by that person. This condition shall not apply to the division and sale of lots or units in residential subdivisions or condominiums.

2. The Permittee shall retain the design professional registered or licensed in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project. The Permittee shall inform the District in writing of the name, address and phone number of the design professional so employed. This information shall be submitted prior to construction.

3. The following boundaries, as shown on the approved construction drawings, shall be clearly delineated on the site prior to initial clearing or grading activities:

   a. wetland and surface water areas

   b. limits of approved wetland and surface water impacts

   The delineation shall endure throughout the construction period and be readily discernible to construction and District personnel.

4. This permit also constitutes a grant of water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. Section 1341. Pursuant to Rule 62-330.062, F.A.C. issuance of the individual or conceptual approval permit under this chapter shall constitute certification of compliance with water quality standards.

5. If limestone bedrock is encountered during construction of the stormwater management system, the District must be notified and construction in the affected area shall cease.

6. The Permittee shall notify the District of any sinkhole development in the stormwater management system within 48 hours of discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the District within 30 days of discovery.

7. The Permitted Plan Set for this project includes the set received by the District on August 29, 2025.

8. The operation and maintenance entity shall provide for the inspection of the permitted project after conversion of the permit to the operation and maintenance phase. For systems utilizing wet detention, the inspections shall be performed five (5) years after operation is authorized and every five (5) years thereafter.

   The operation and maintenance entity must maintain a record of each inspection, including the date of inspection, the name and contact information of the inspector, whether the system was functioning as designed and permitted, and make such record available upon request of the District.

   Within 30 days of any failure of a stormwater management system or deviation from the permit, an inspection report shall be submitted using Form 62-330.311(1), “Operation and Maintenance Inspection Certification” describing the remedial actions taken to resolve the failure or deviation.

9. District staff must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the District as a permit prior to the dewatering event as a permit modification. A water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.

10. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.

11. The permittee shall complete construction of all aspects of the stormwater management system, including wetland compensation (grading, mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.

12. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:

    a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.

    b. Any existing septic tanks on site shall be abandoned at the beginning of construction.

    c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction.

13. All stormwater management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.

14. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the occupation of the site or operation of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

15. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the District, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.

16. The Permittee shall not begin construction within the project area until the Tippen Bay Wetland Mitigation Bank has received a permit modification authorizing the withdrawal of 0.38 herbaceous credits from mitigation bank permit number 43041757.003, and a copy of this modification is provided to the District, or this permit has been modified to provide an equivalent level of mitigation to be completed by the Permittee. Initiation of construction prior to issuance of the required permit modification shall be a violation of this permit.

17. Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.

18. This permit does not authorize the Permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to FWCConservationPlanningServices@MyFWC.com.

GENERAL CONDITIONS

1. The general conditions attached hereto as Exhibit "A" are hereby incorporated into this permit by reference and the Permittee shall comply with them.

David Kramer, P.E.

Authorized Signature

EXHIBIT A

GENERAL CONDITIONS:

1 The following general conditions are binding on all individual permits issued under this chapter, except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate, project-specific conditions.

a. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C., or the permit may be revoked and the permittee may be subject to enforcement action.

b. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

c. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, July 2013)*, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Division of Environmental Assessment and Restoration, Tallahassee, Florida, October 2018)*, which are both incorporated by reference in subparagraph 62-330.350(1)(c), F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

d. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice,"[effective date], incorporated by reference herein (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02505>), indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5),F.A.C. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.

e. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

f. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

1. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex - "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or

2. For all other activities - As-Built drawings with "As-Built Certification and Request for Conversion to Operation Phase" [Form 62-330.310(1)].

3. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

g. If the final operation and maintenance entity is a third party:

1. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

2. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity" [Form 62-330.310 (2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

h. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

i. This permit does not:

1. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;

2. Convey to the permittee or create in the permittee any interest in real property;

3. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or

4. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

j. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

k. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

l. The permittee shall notify the Agency in writing:

1. Immediately if any previously submitted information is discovered to be inaccurate; and

2. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

m. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

n. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early

colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S. (2012).

o. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

p. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

q. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

r. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

2. In addition to those general conditions in subsection (1) above, the Agency shall impose any additional project-specific special conditions necessary to assure the permitted activities will not be harmful to the water resources, as set forth in Rules 62-330.301 and 62-330.302, F.A.C., Volumes I and II, as applicable, and the rules incorporated by reference in this chapter.

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

NOTICE OF

AUTHORIZATION

TO COMMENCE CONSTRUCTION

Kings Highway Widening
PROJECT NAME

Road Projects
PROJECT TYPE

Charlotte
COUNTY

S06/T40S/R23E, S05/T40S/R23E, S32/T39S/R23E
SEC(S)/TWP(S)/RGE(S)

Charlotte County
PERMITTEE

APPLICATION ID/PERMIT NO: 894010 / 43047813.000
DATE ISSUED: November 06, 2025

David Kramer, P.E.
Issuing Authority

THIS NOTICE SHOULD BE CONSPICUOUSLY DISPLAYED AT THE SITE OF THE WORK

Notice of Rights

ADMINISTRATIVE HEARING

1. You or any person whose substantial interests are or may be affected by the District's intended or proposed action may request an administrative hearing on that action by filing a written petition in accordance with Sections 120.569 and 120.57, Florida Statutes (F.S.), Uniform Rules of Procedure Chapter 28-106, Florida Administrative Code (F.A.C.) and District Rule 40D-1.1010, F.A.C. Unless otherwise provided by law, a petition for administrative hearing must be filed with (received by) the District within 21 days of receipt of written notice of agency action. "Written notice" means either actual written notice, or newspaper publication of notice, that the District has taken or intends to take agency action. "Receipt of written notice" is deemed to be the fifth day after the date on which actual notice is deposited in the United States mail, if notice is mailed to you, or the date that actual notice is issued, if sent to you by electronic mail or delivered to you, or the date that notice is published in a newspaper, for those persons to whom the District does not provide actual notice.

2. Pursuant to Subsection 373.427(2)(c), F.S., for notices of intended or proposed agency action on a consolidated application for an environmental resource permit and use of state-owned submerged lands concurrently reviewed by the District, a petition for administrative hearing must be filed with (received by) the District within 14 days of receipt of written notice.

3. Pursuant to Rule 62-532.430, F.A.C., for notices of intent to deny a well construction permit, a petition for administrative hearing must be filed with (received by) the District within 30 days of receipt of written notice of intent to deny.

4. Any person who receives written notice of an agency decision and who fails to file a written request for a hearing within 21 days of receipt or other period as required by law waives the right to request a hearing on such matters.

5. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding District intended or proposed action is not available prior to the filing of a petition for hearing.

6. A request or petition for administrative hearing must comply with the requirements set forth in Chapter 28-106, F.A.C. A request or petition for a hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's intended action or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no material facts in dispute, and (3) otherwise comply with Rules 28-106.201 and 28-106.301, F.A.C. Chapter 28-106, F.A.C. can be viewed at www.flrules.org or at the District's website at www.WaterMatters.org/permits/rules.

7. A petition for administrative hearing is deemed filed upon receipt of the complete petition by the District Agency Clerk at the District's Tampa Service Office during normal business hours, which are 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding District holidays. Filings with the District Agency Clerk may be made by mail, hand-delivery or facsimile transfer (fax). The District does not accept petitions for administrative hearing by electronic mail. Mailed filings must be addressed to, and hand-delivered filings must be delivered to, the Agency Clerk, Southwest Florida Water Management District, 7601 Highway 301 North,Tampa,FL 33637-6759. Faxed filings must be transmitted to the District Agency Clerk at (813) 367-9788. Any petition not received during normal business hours shall be filed as of 8:00 a.m. on the next business day. The District's acceptance of faxed petitions for filing is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation, available for viewing at www.WaterMatters.org/about.

JUDICIAL REVIEW

1. Pursuant to Sections 120.60(3) and 120.68, F.S., a party who is adversely affected by District action may seek judicial review of the District's action. Judicial review shall be sought in the Fifth District Court of Appeal or in the appellate district where a party resides or as otherwise provided by law.

2. All proceedings shall be instituted by filing an original notice of appeal with the District Agency Clerk within 30 days after the rendition of the order being appealed, and a copy of the notice of appeal, accompanied by any filing fees prescribed by law, with the clerk of the court, in accordance with Rules 9. 110 and 9.190 of the Florida Rules of Appellate Procedure (Fla. R. App. P.). Pursuant to Fla. R. App. P. 9.020(h), an order is rendered when a signed written order is filed with the clerk of the lower tribunal.

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CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LIGHTING PLANS
UTILITY PLANS

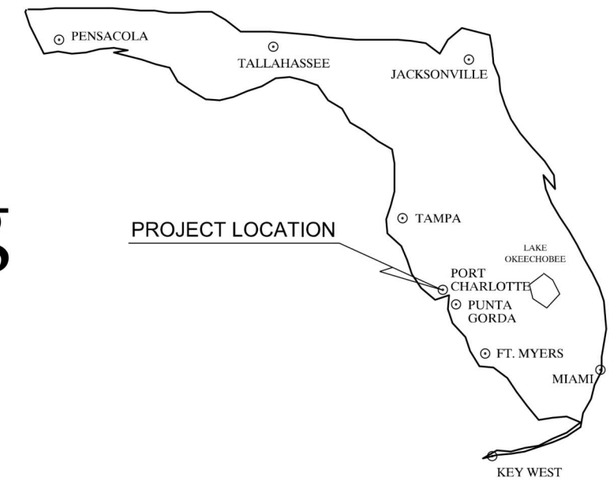
CHARLOTTE COUNTY PUBLIC WORKS
ENGINEERING DIVISION

PLANS OF PROPOSED

Kings Highway Widening

ROADWAY PLANS

Sandhill Blvd. to Courtly Manor Dr.



STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 2023, AND SUPPLEMENTS THERETO AS NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.

CHARLOTTE COUNTY
BOARD OF COUNTY COMMISSIONERS

DISTRICT 1 - KEN DOHERTY
DISTRICT 2 - CHRISTOPHER CONSTANCE
DISTRICT 3 - BILL TRUEX
DISTRICT 4 - STEPHEN R. DEUTSCH
DISTRICT 5 - JOE TISEO

DIRECTOR OF PUBLIC WORKS - JOHN ELIAS
COUNTY ENGINEER - JOANNE VERNON, P.E.

CHARLOTTE COUNTY
PUBLIC WORKS
ENGINEERING
410 TAYLOR STREET, UNIT 104
PUNTA GORDA, FLORIDA 33950
(941) 575-3600

90% SUMBMITTAL
SEPTEMBER 2024

INDEX OF UTILITY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
10	PROJECT LAYOUT
17 - 24	DRAINAGE STRUCTURES
28 - 38	CROSS SECTIONS
48 - 53	UTILITY ADJUSTMENTS

TECO-PGS MARK-UPS PROVIDED BY:

AYRES
TECO PEOPLES GAS AN EMERA COMPANY

LEGEND

RED = (a) TO BE REMOVED OR RELOCATED HORIZONTALLY OR
(b) TO BE PLACED OUT-OF-SERVICE (DEACTIVATED) BUT LEFT IN PLACE OR REMOVE WHERE ACCESSIBLE

GREEN = TO REMAIN IN PLACE WITH NO ADJUSTMENT

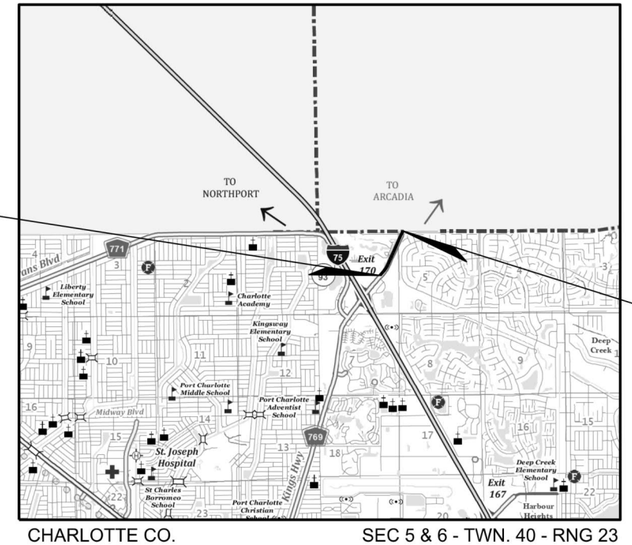
BROWN = (a) EXISTING TO BE ADJUSTED VERTICALLY, BUT REMAIN IN SAME HORIZONTAL ALIGNMENT, OR
(b) PROPOSED TO BE INSTALLED

36" DOC — DEPTH OF COVER
REGULATOR
VALVE BOX
VALVE COVER
VALVE
MANHOLE
METER
VENT
G(B) — GAS MAIN QUALITY LEVEL B
G(D) — GAS MAIN QUALITY LEVEL D
PROPOSED DRAINAGE (BY OTHERS)
PROPOSED SIGNALIZATION (BY OTHERS)
W W W W W W W W — PROPOSED WATER MAIN (BY OTHERS)
S S S S S S S S — PROPOSED FORCE MAIN (BY OTHERS)
NPW NPW NPW — PROPOSED RECLAIM MAIN (BY OTHERS)

TECO-PGS = TECO PEOPLES GAS
STL = STEEL
PE = POLYETHYLENE
OOS = OUT-OF-SERVICE

TYPE OF UTILITY — UTILITY DISPOSITION
6" GM / TO REMAIN
TECO-PGS /
UTILITY OWNER — PLACEMENT RESPONSIBILITY

PROJECT LIMIT
SANDHILL BLVD
(Begin)



PROJECT LIMIT
COURTLY MANOR DR
(End)

SCALE

CHARLOTTE CO. SEC 5 & 6 - TWN. 40 - RNG 23

LOCATION MAP

JOHNSON ENGINEERING

Johnson Engineering, Inc.
17833 Murdock Circle
Port Charlotte, Florida 33948
Certificate of Authorizaton No. 642

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEAL BY RYAN K. BELL, P.E. ON 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.

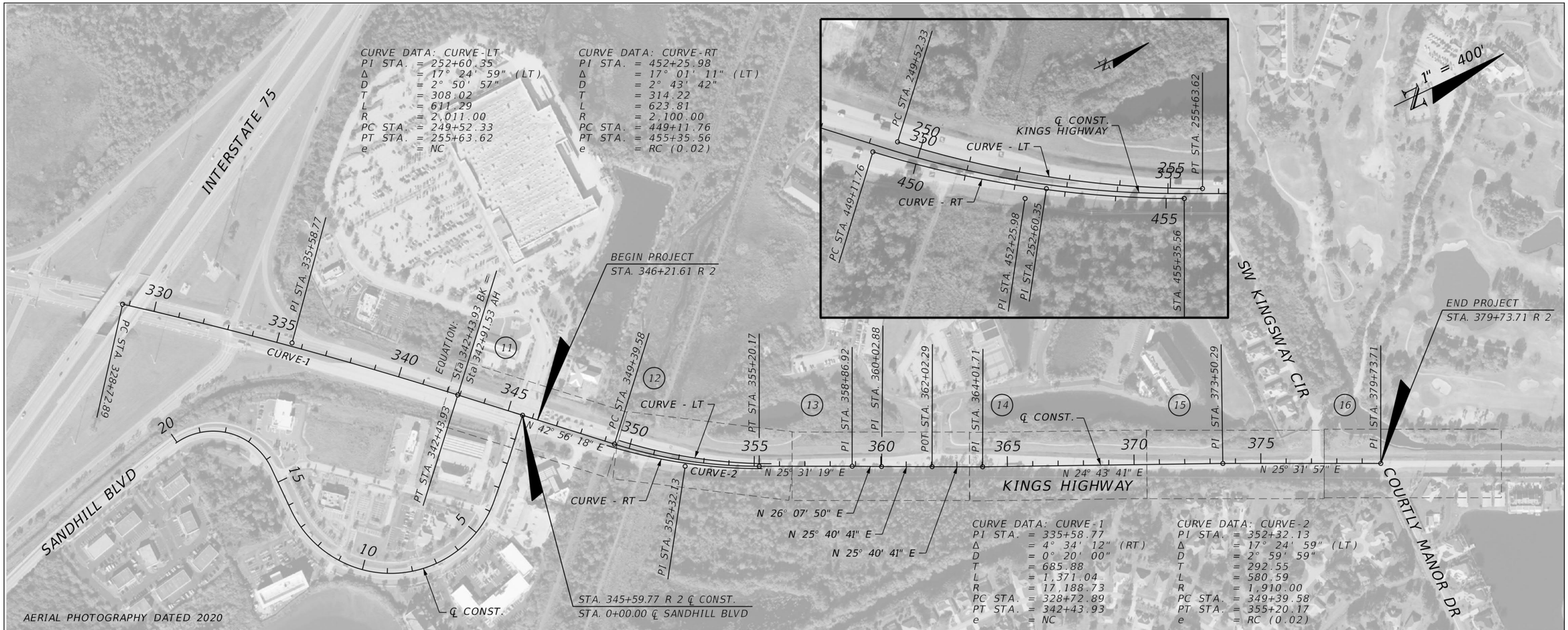
ENGINEERING CERTIFICATION

I HEREBY CERTIFY THAT THE DESIGN OF THIS PROJECT UNDER MY DIRECTION COMPLIES WITH THE CURRENT MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS AS ADOPTED BY THE F.D.O.T. PURSUANT TO SUBSECTION 336.045 OF THE FLORIDA STATUTES.

DATE — RYAN K. BELL, P.E. NO. 60010

PROJ. NO. 20236025-000
SHEET 1 OF 67
DATE 10/2/2024

68-0166.65 RGB MARK-UPS (KINGS HIGHWAY WIDENING, SANDHILL BLVD. TO COURTLY MANOR DR.) - CHARLOTTE COUNTY 11/26/2024



HORIZONTAL AND VERTICAL CONTROL

CONTROL POINT	℄ STATION	OFFSET	ELEVATION (Z)	DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	SCALE FACTOR
CP1	332+18.65	407.94' RT.	23.35'	4"X4" CONCRETE MONUMENT PLS4909	976594.94	640910.63			1.0000
CP2	334+86.23	215.16' RT.	23.71'	4"X4" CONCRETE MONUMENT LB6639	976920.12	640931.64			1.0000
CP3	334+66.59	381.46' LT.	23.42'	4"X4" CONCRETE MONUMENT LB7143	977291.59	640464.35			1.0000
CP4	336+77.51	149.92' LT.	24.09'	CONTROL POINT 5/8" IRON ROD (FL-DOT)	977303.01	640779.55			1.0000
CP5	340+76.61	110.10' LT.	24.37'	4"X4" CONCRETE MONUMENT LB7143	977576.68	641076.84			1.0000
CP6	341+86.13	112.44' RT.	23.00'	4"X4" CONCRETE MONUMENT (ILLEGIBLE)	977506.82	641314.82			1.0000
CP7	345+07.29	95.00' LT.	26.36'	4"X4" CONCRETE MONUMENT LB7143	977848.19	641348.97			1.0000
CP8	351+51.28	60.57' RT.	23.23	4"X4" CONCRETE MONUMENT LB6690	978226.50	641896.98			1.0000
CP9	351+46.15	114.85' LT.	23.64'	5/8" IRON ROD LB6690	978327.19	641753.25			1.0000
CP10	355+10.85	103.25' LT.	26.33'	5/8" IRON ROD LB6690	978614.67	641941.35			1.0000
CP11	357+76.33	85.62' LT.	25.23'	5/8" IRON ROD LB6690	978846.18	642071.44			1.0000
CP12	357+07.94	42.63' RT.	23.96'	5/8" IRON ROD LB6690	978729.21	642157.71			1.0000
CP13	360+03.95	42.14' RT.	24.13'	5/8" IRON ROD LB6690	978995.90	642285.87			1.0000
CP14	363+01.81	92.43' LT.	27.18'	5/8" IRON ROD LB6690	979322.66	642293.66			1.0000
CP15	367+17.33	85.81' LT.	25.55'	5/8" IRON ROD LB6690	979695.22	642474.33			1.0000
CP16	365+94.76	42.86' RT.	23.83'	5/8" IRON ROD LB6690	979530.06	642539.93			1.0000
CP17	371+19.24	76.79' LT.	23.83'	5/8" IRON ROD LB6690	980056.50	642650.65			1.0000
CP18	374+91.47	56.24' LT.	25.00'	5/8" IRON ROD LB6690	980385.87	642827.15			1.0000
CP19	376+28.51	54.02' RT.	24.38'	5/8" IRON ROD LB6690	980462.01	642985.71			1.0000
CP20	378+24.63	60.74' LT.	24.52'	5/8" IRON ROD LB6690	980688.44	642966.69			1.0000
CP21	379+73.67	91.5' RT.	23.91'	5/8" IRON ROD Z639	980757.30	643168.30			1.0000

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

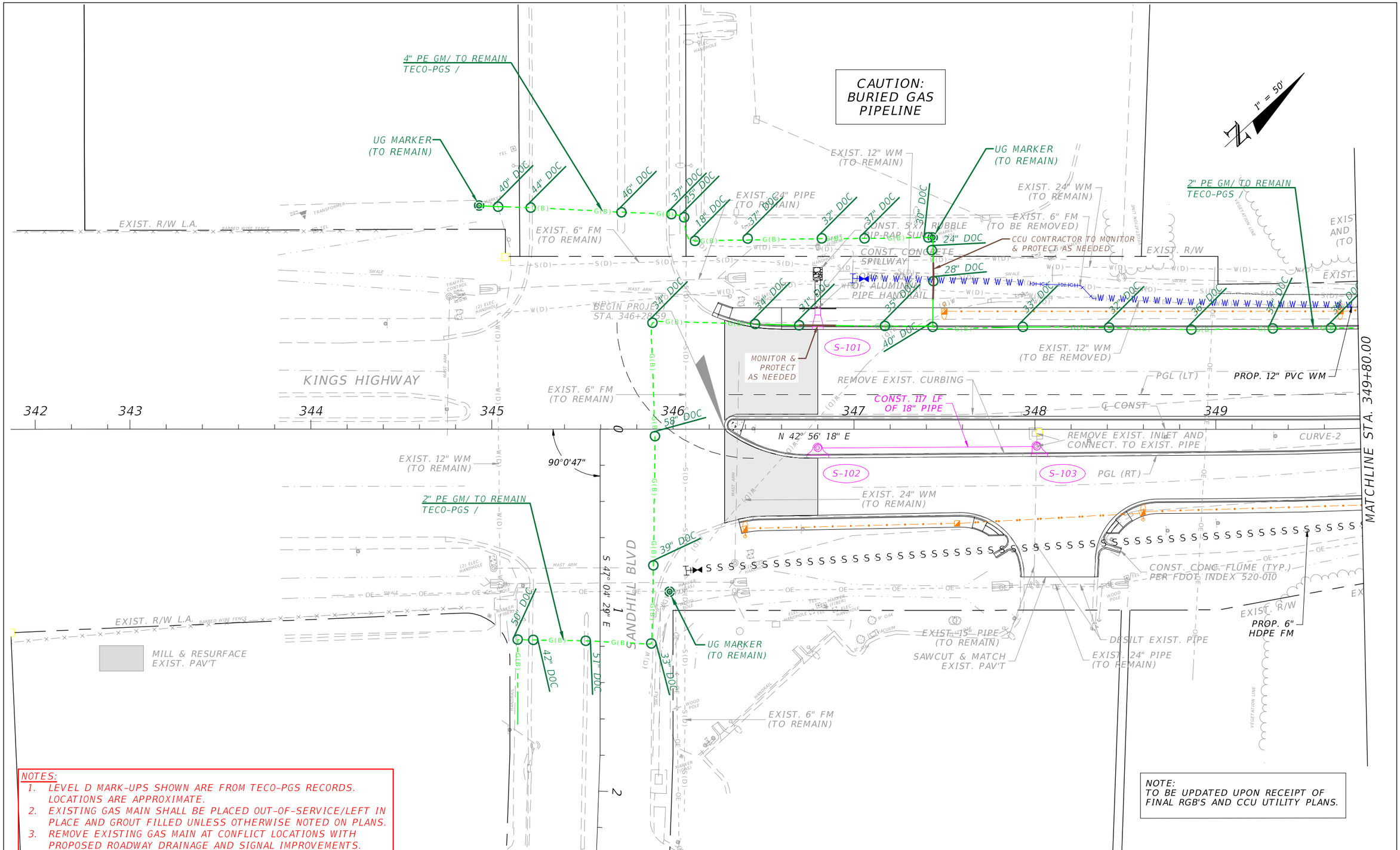
TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

PROJECT LAYOUT

SHEET NO. 10



NOTES:
1. LEVEL D MARK-UPS SHOWN ARE FROM TECO-PGS RECORDS. LOCATIONS ARE APPROXIMATE.
2. EXISTING GAS MAIN SHALL BE PLACED OUT-OF-SERVICE/LEFT IN PLACE AND GROUT FILLED UNLESS OTHERWISE NOTED ON PLANS.
3. REMOVE EXISTING GAS MAIN AT CONFLICT LOCATIONS WITH PROPOSED ROADWAY DRAINAGE AND SIGNAL IMPROVEMENTS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 48

Gallegos, Camerino 11/26/2024 2:16:45 PM C:\68\68-0166.00 TECO PEOPLES GAS\68-0166.65 Kings Highway Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0166.65 RGB-TECO-PGS.dwg

CAUTION:
BURIED GAS
PIPELINE

1" = 50'

2" PE GM/ MONITOR & PROTECT
TECO-PGS /

PROP. 12" PVC WM

EXIST. 24" WM
(TO REMAIN)

EXIST. 6" FM
(TO BE REMOVED)

EXIST. 12" WM
(TO BE REMOVED)

ADJUST MANHOLE TOP
TO FINISH GRADE
APPROX. EL. 24.5

EXIST. 8" FM
(TO BE REMOVED)

GRADE SWALE
(SEE CROSS SECTIONS)

EXIST. R/W

POWER POLE

S-111

S-106

S-107

S-110

S-104

S-105

S-108

S-109

MATCHLINE STA. 349+80.00

MATCHLINE STA. 356+80.00

PGL (LT)

TYPE B
STABILIZATION
(LBR 70)

CONST. 59 LF
OF 18" PIPE

CONST. 27 LF
OF 24" PIPE

CONST. 27 LF
OF 18" PIPE

CONST. 56 LF
OF 19"x30" PIPE

EXIST. 18"x24" PIPE
(TO BE REMOVED)

CONST. 247 LF
OF 30" PIPE

CONST. 380 LF
OF 24" PIPE

PROP. 6" HDPE FM

EXIST. ESMT.

KINGS HIGHWAY

℄ CONST.

CURVE-2

PGL (RT)

N 25° 31' 19" E

350 351 352 353 354 355 356

40" DOC
36" DOC
33" DOC
34" DOC
32" DOC
33" DOC
38" DOC
43" DOC
39" DOC
37" DOC
37" DOC
39" DOC

TYP B STABILIZATION
(LBR 70)

NOTES:
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NOTE:
TO BE UPDATED UPON RECEIPT OF
FINAL RGB'S AND CCU UTILITY PLANS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 49

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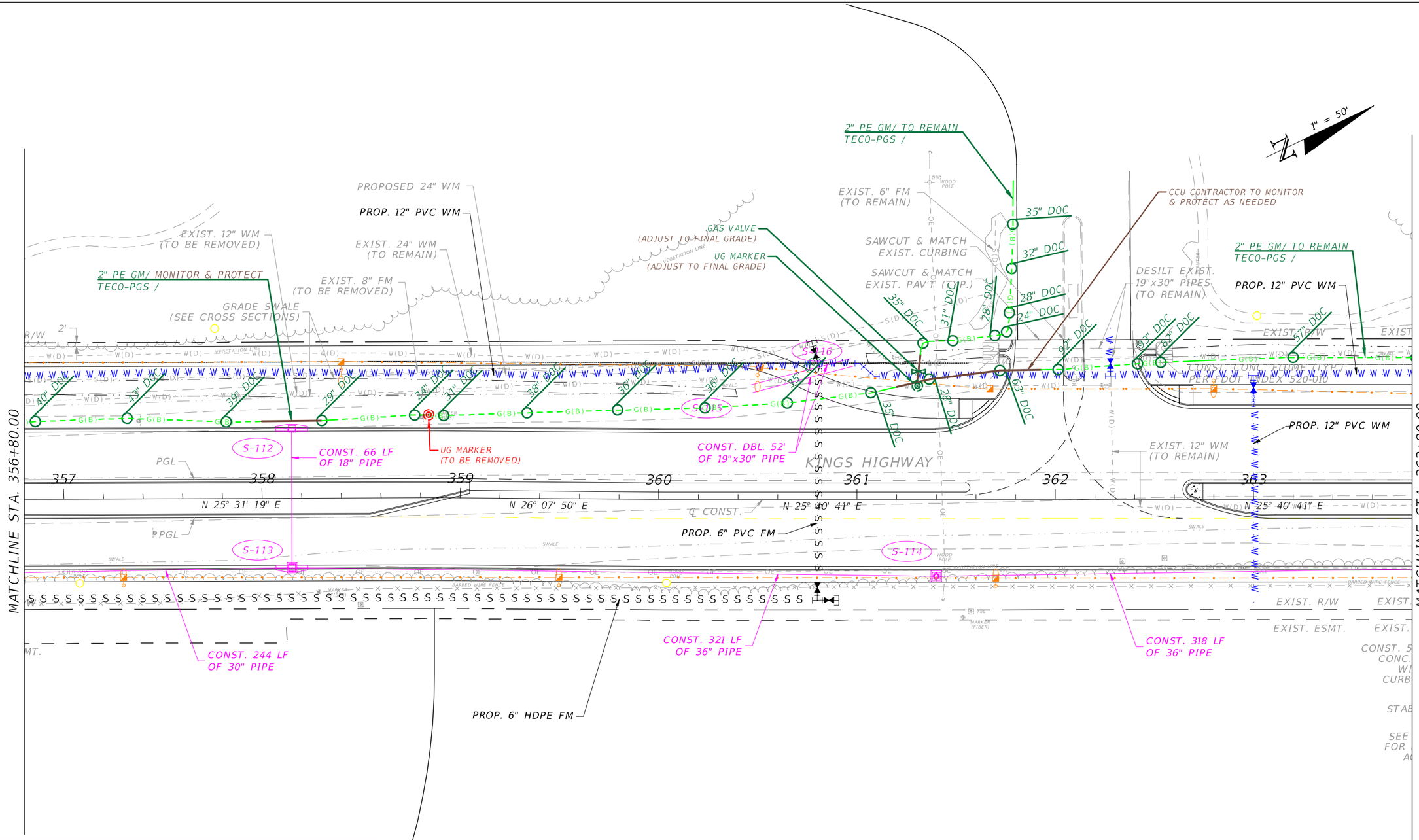

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TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 50

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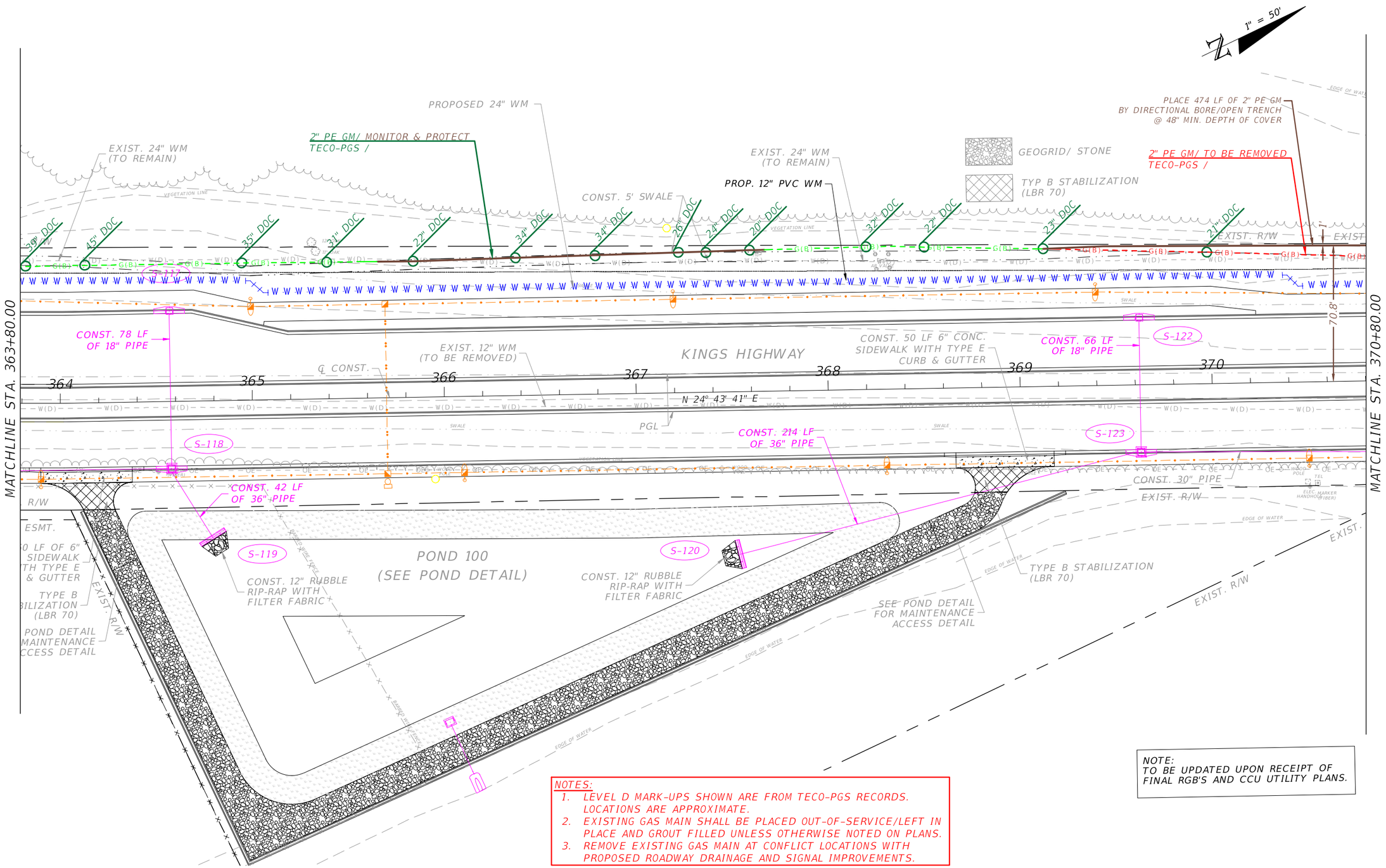

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 51

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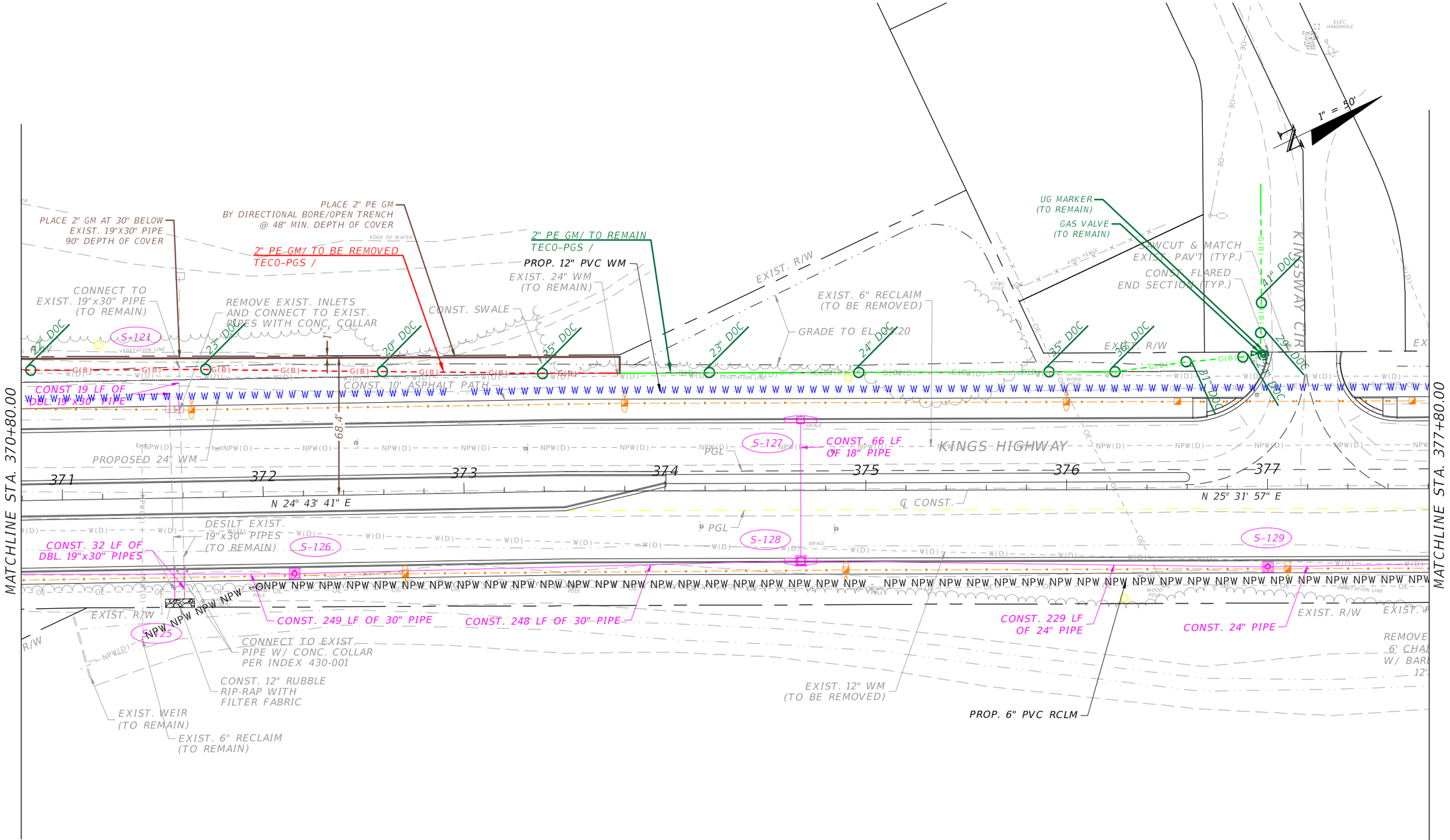

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

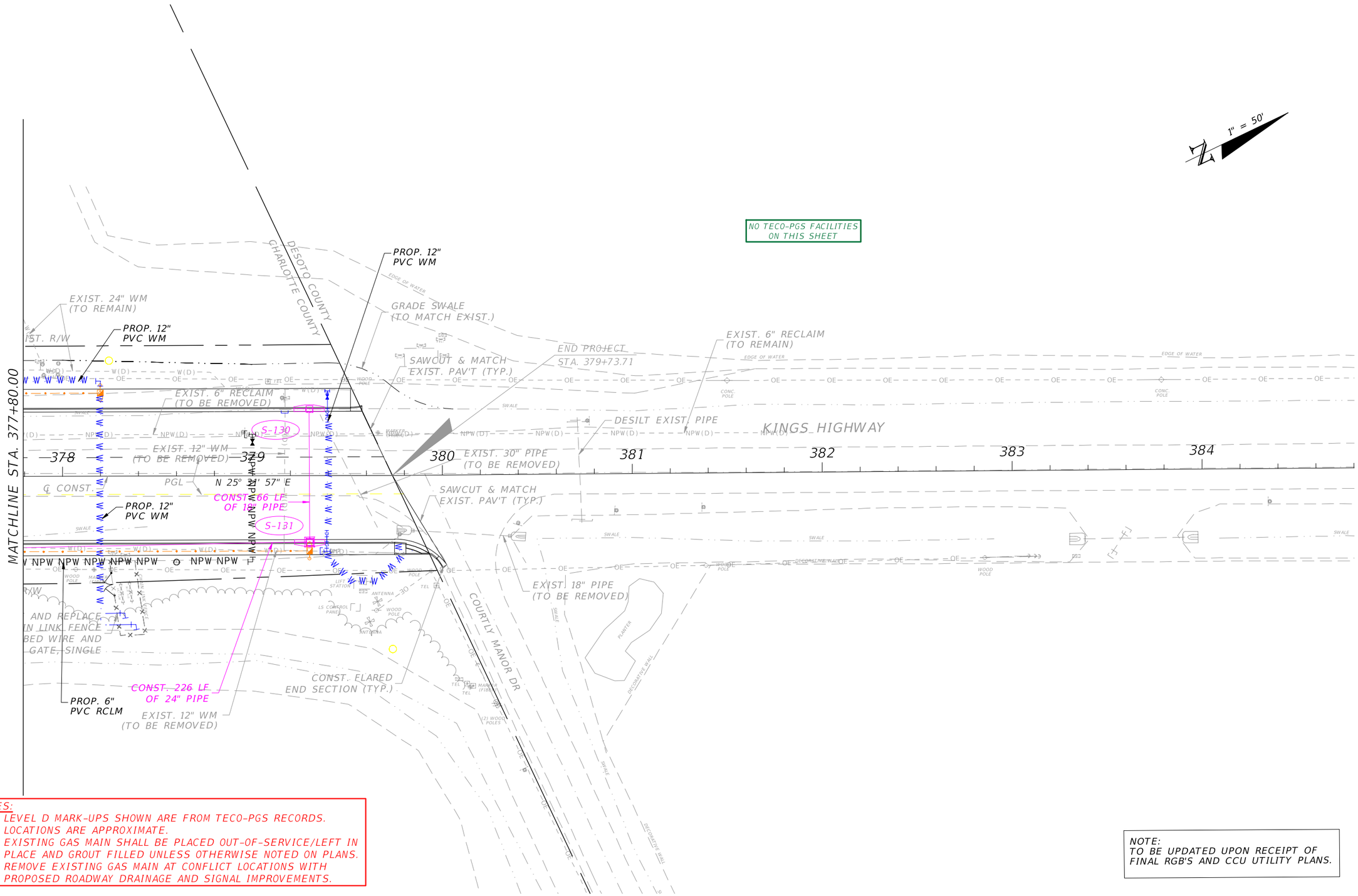
TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 52



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

UTILITY ADJUSTMENTS

SHEET NO. 53

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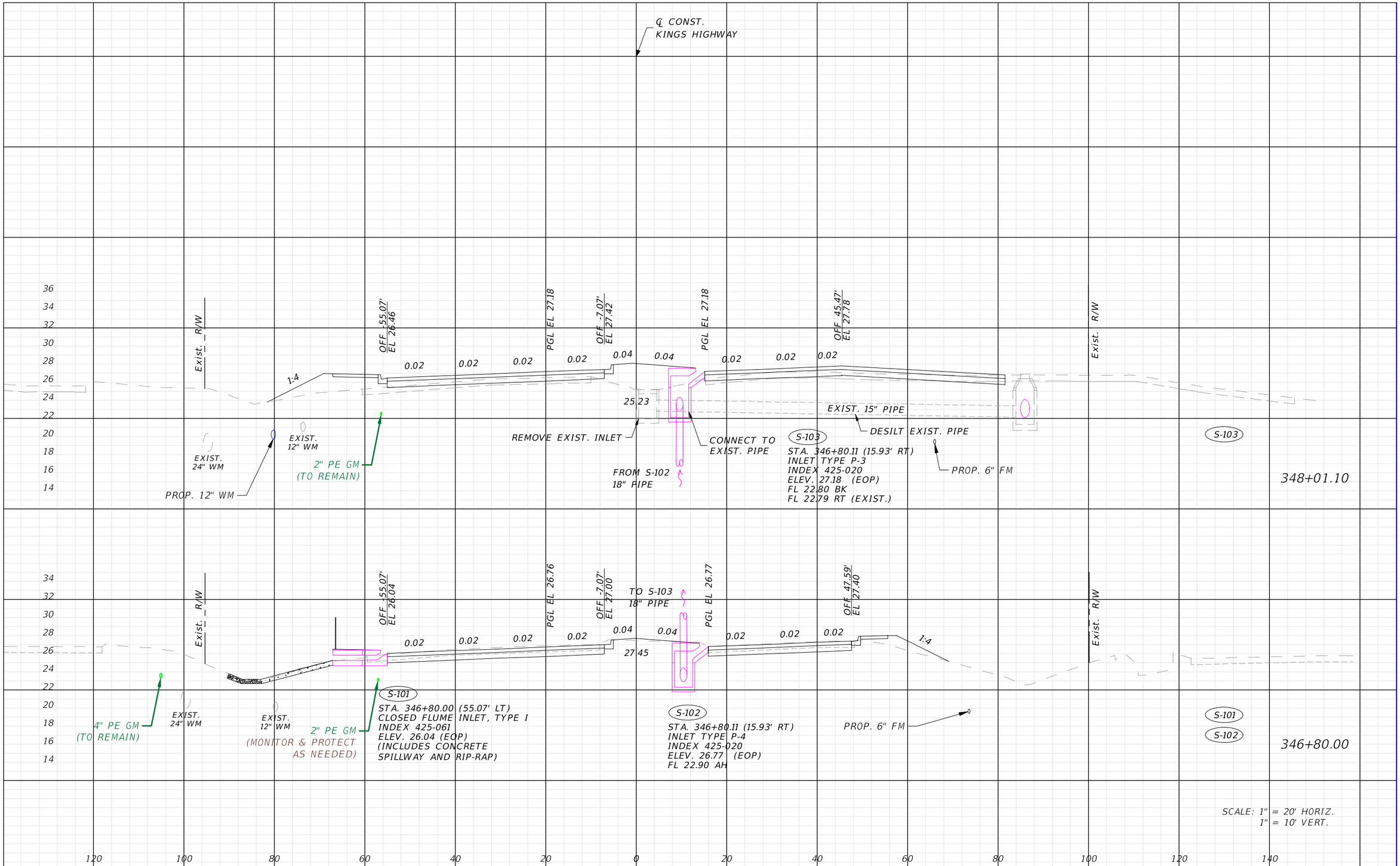


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

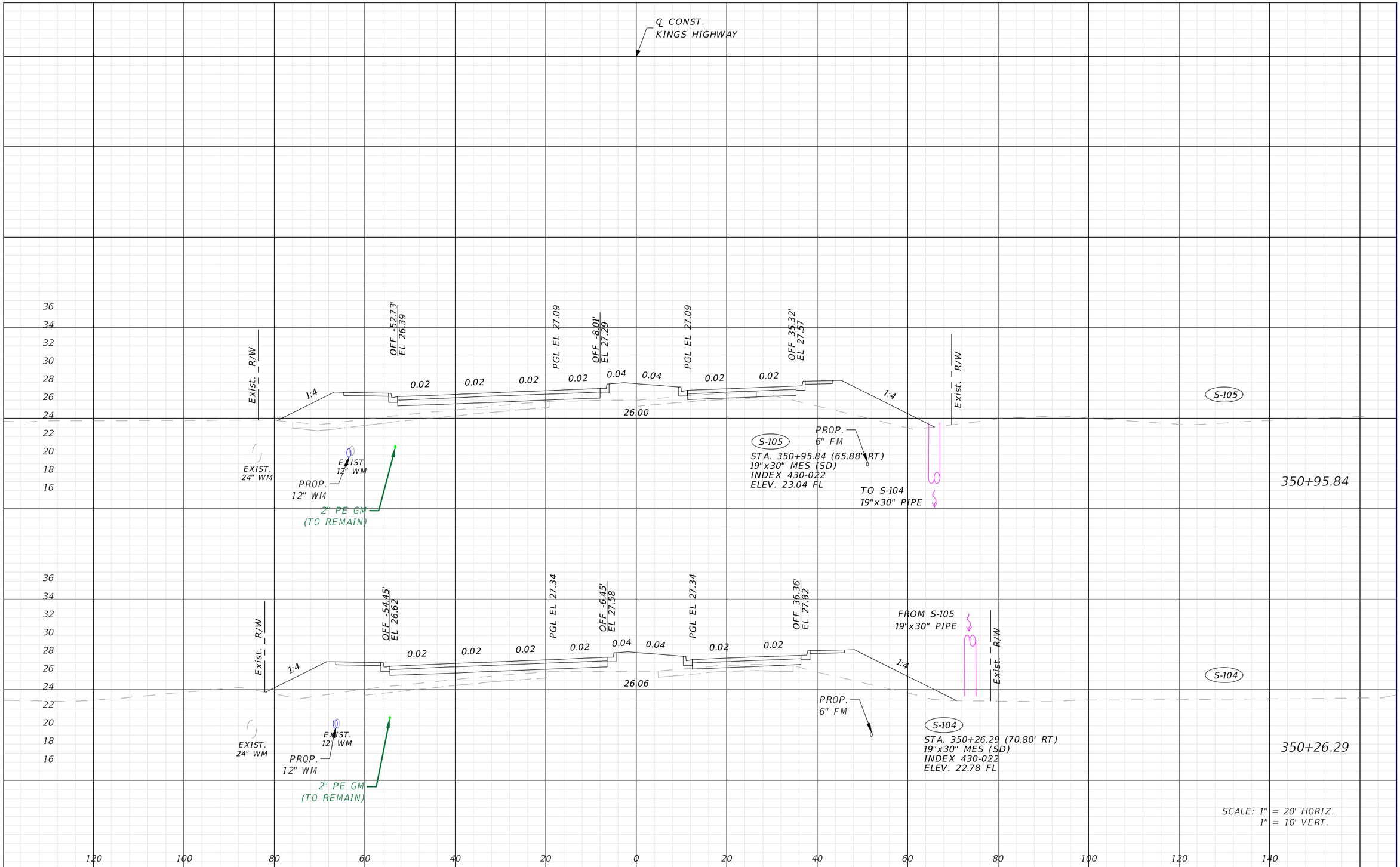
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 17

Gallegos, Camerino 11/26/2024 2:38:41 PM C:\68\68-0166.00 TECO PEOPLES GAS\68-0166.65 Kings Highway Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0166.65 RGB-TECO-PGS_DRA. STRUCTURES.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

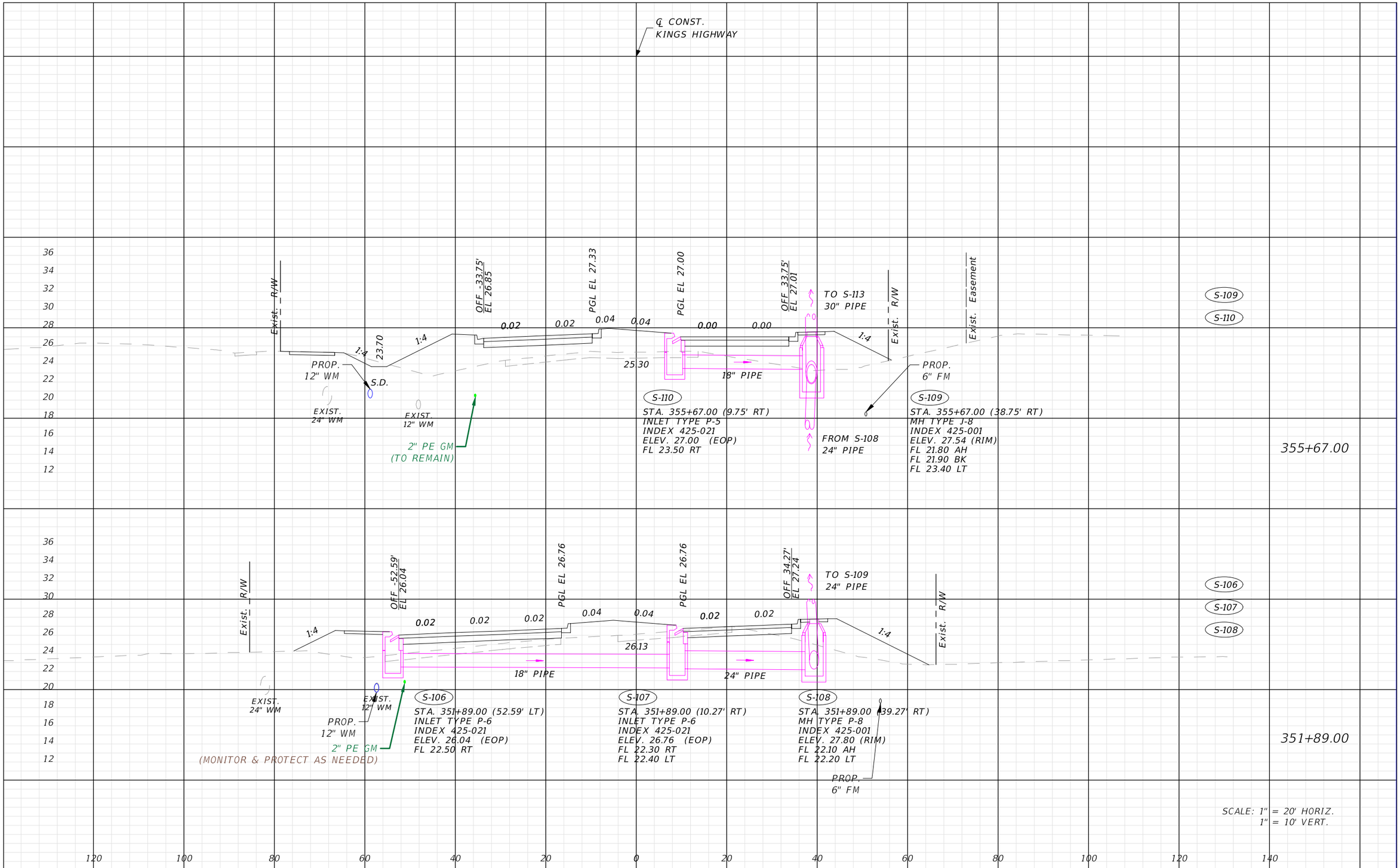
TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 18



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

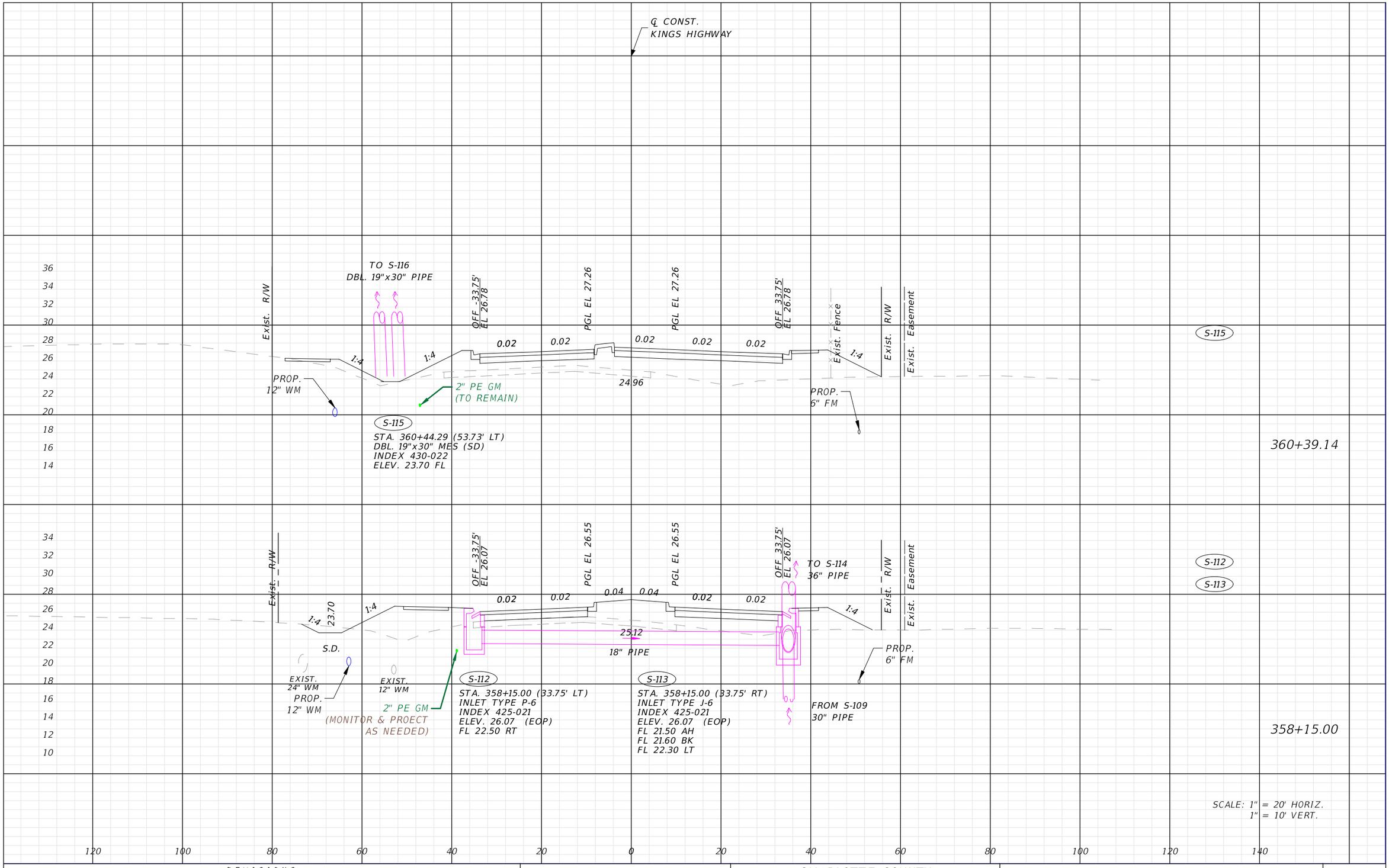
CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO. 19

Gallegos, Camerino 11/26/2024 2:38:44 PM C:\68\68-0166.00 TECO PEOPLES GAS\68-0166.65 Kings Highway Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0166.65 RGB-TECO-PGS_DRA. STRUCTURES.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
----	CHARLOTTE	20236025-000

DRAINAGE STRUCTURES

SHEET NO.
20

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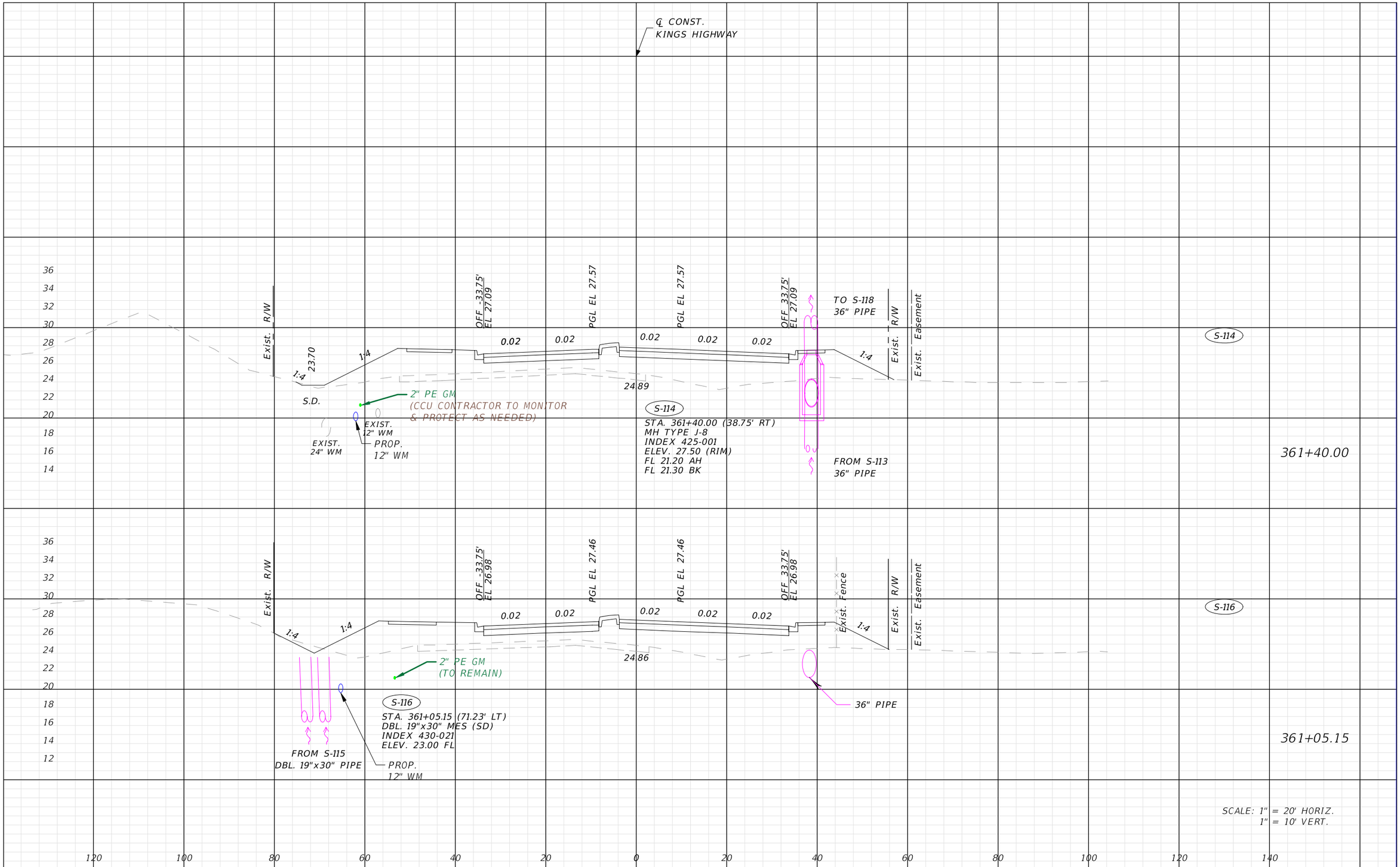

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
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DRAINAGE STRUCTURES

SHEET NO. 21

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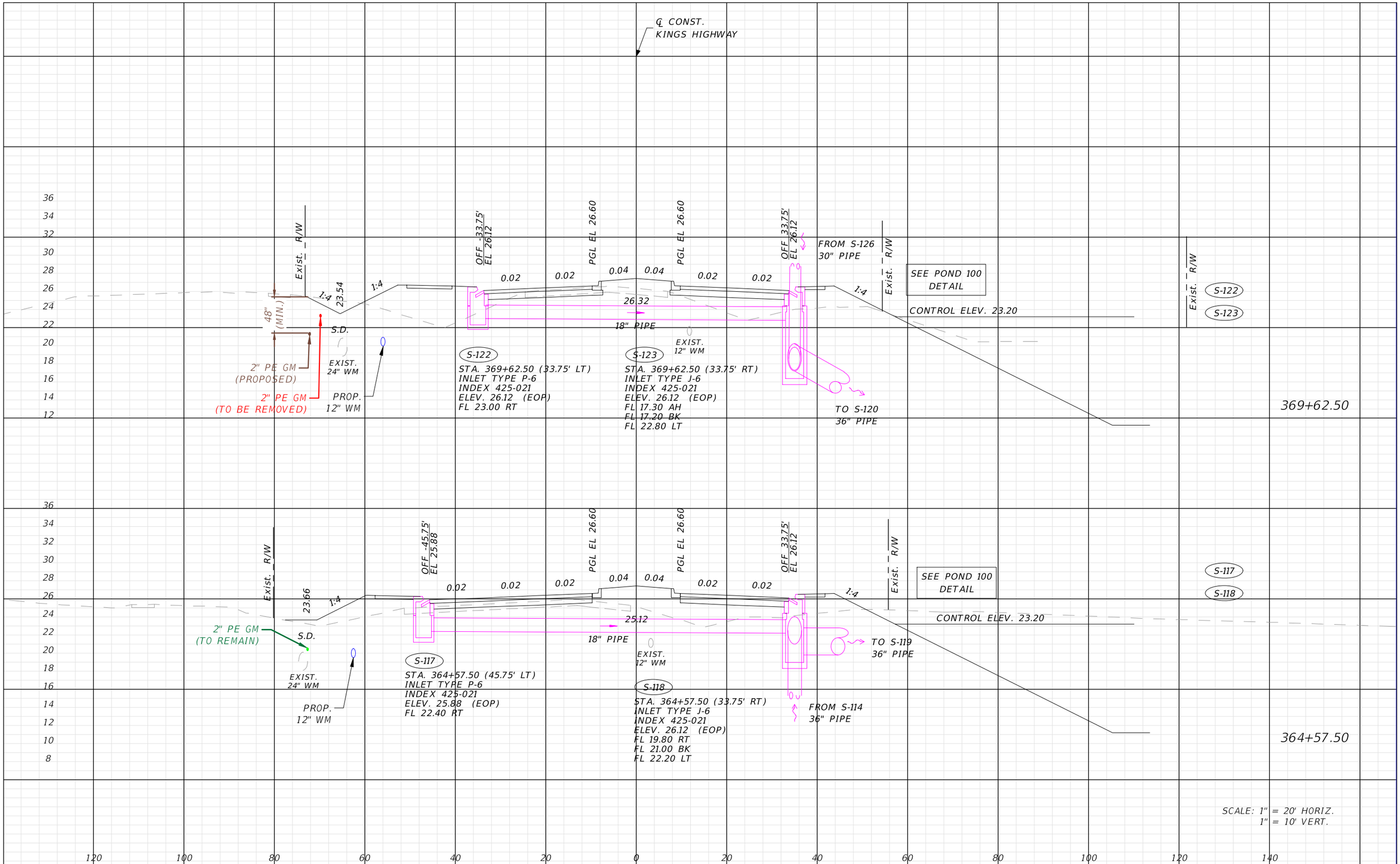

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
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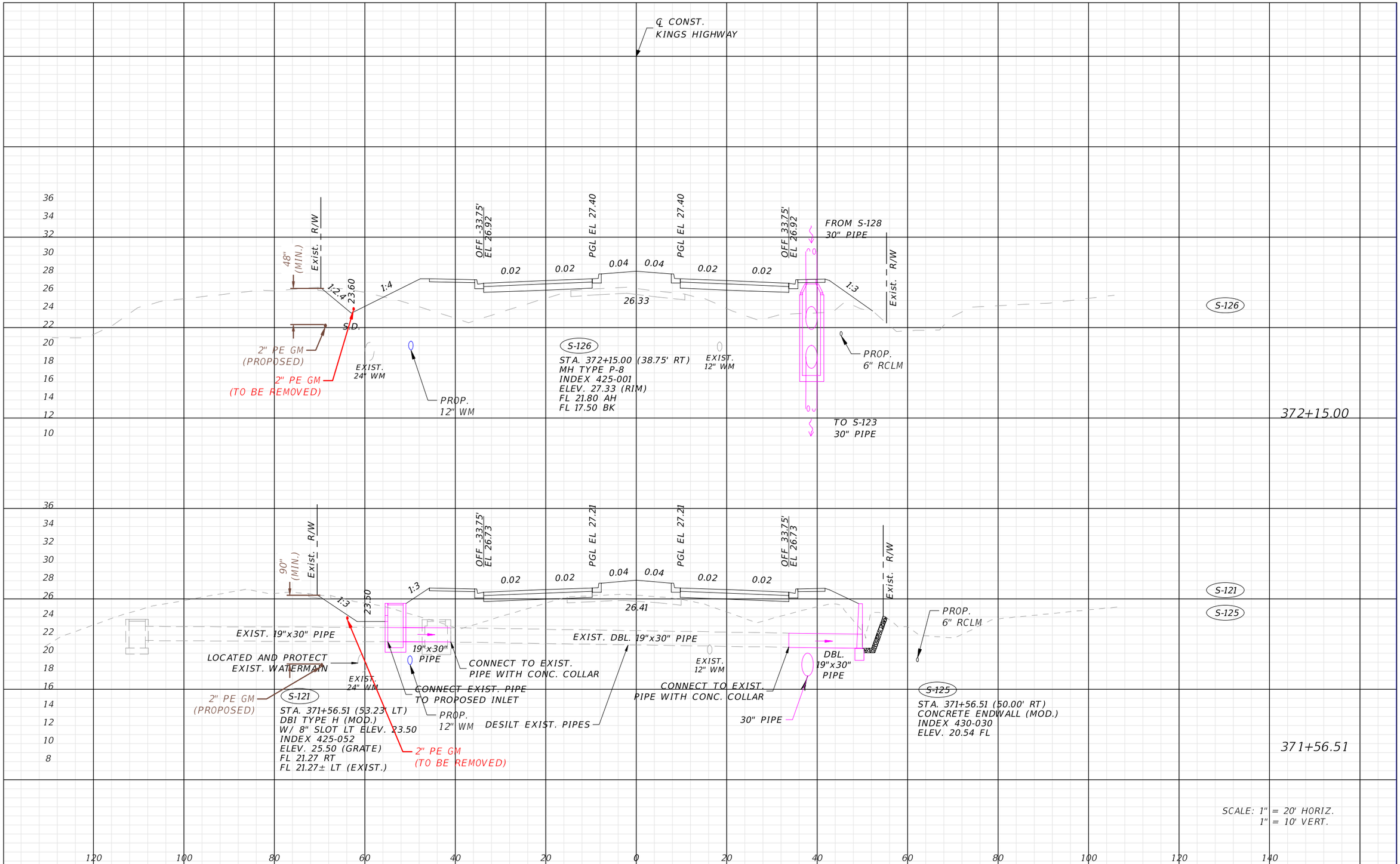
DRAINAGE STRUCTURES

SHEET NO. 22



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
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DRAINAGE STRUCTURES

SHEET NO. 23

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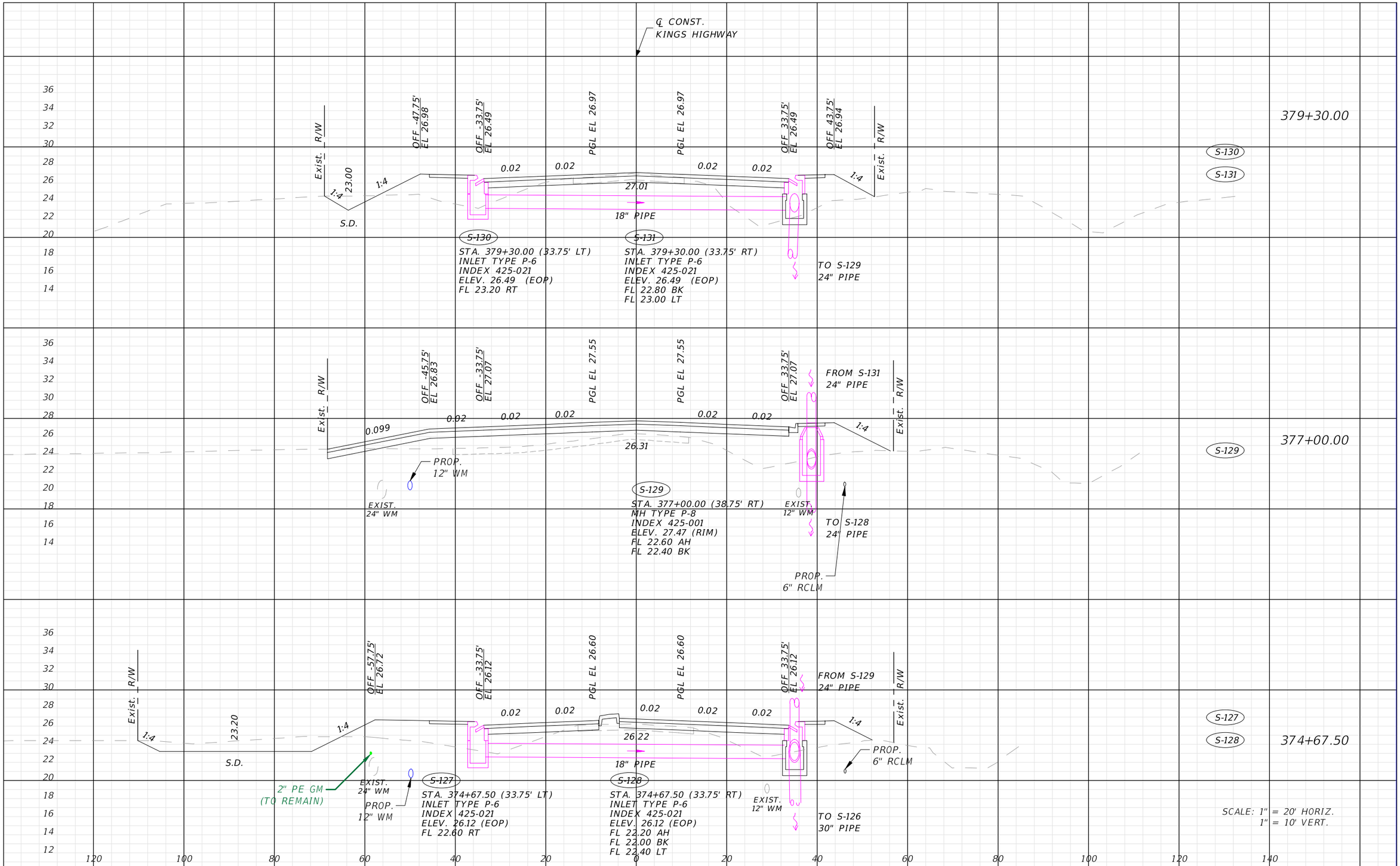

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
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DRAINAGE STRUCTURES

SHEET NO. 24

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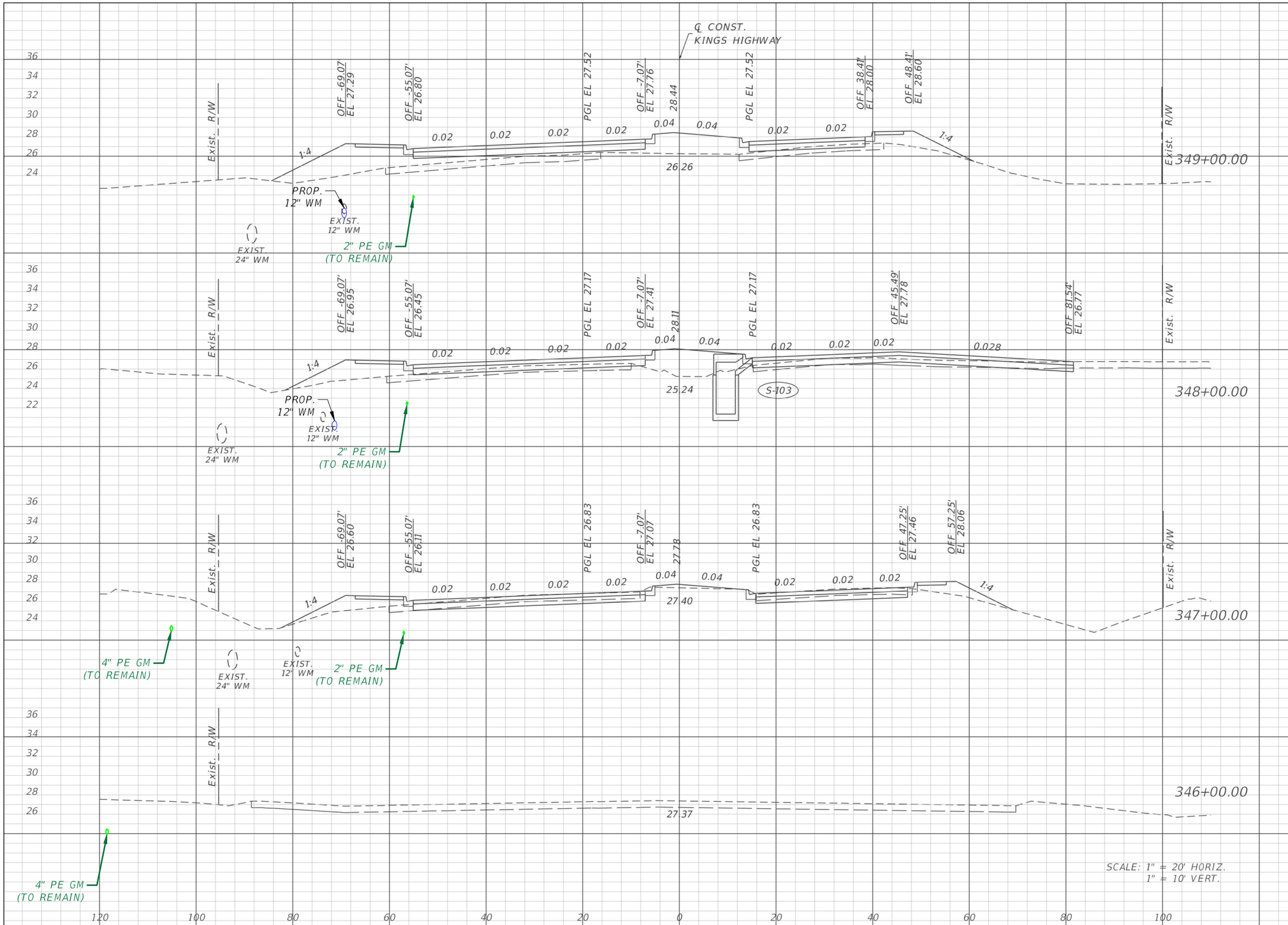

Regular Exc.		Embankment	
A	V	A	V
0	5	129	373
3	68	73	205
34	0	38	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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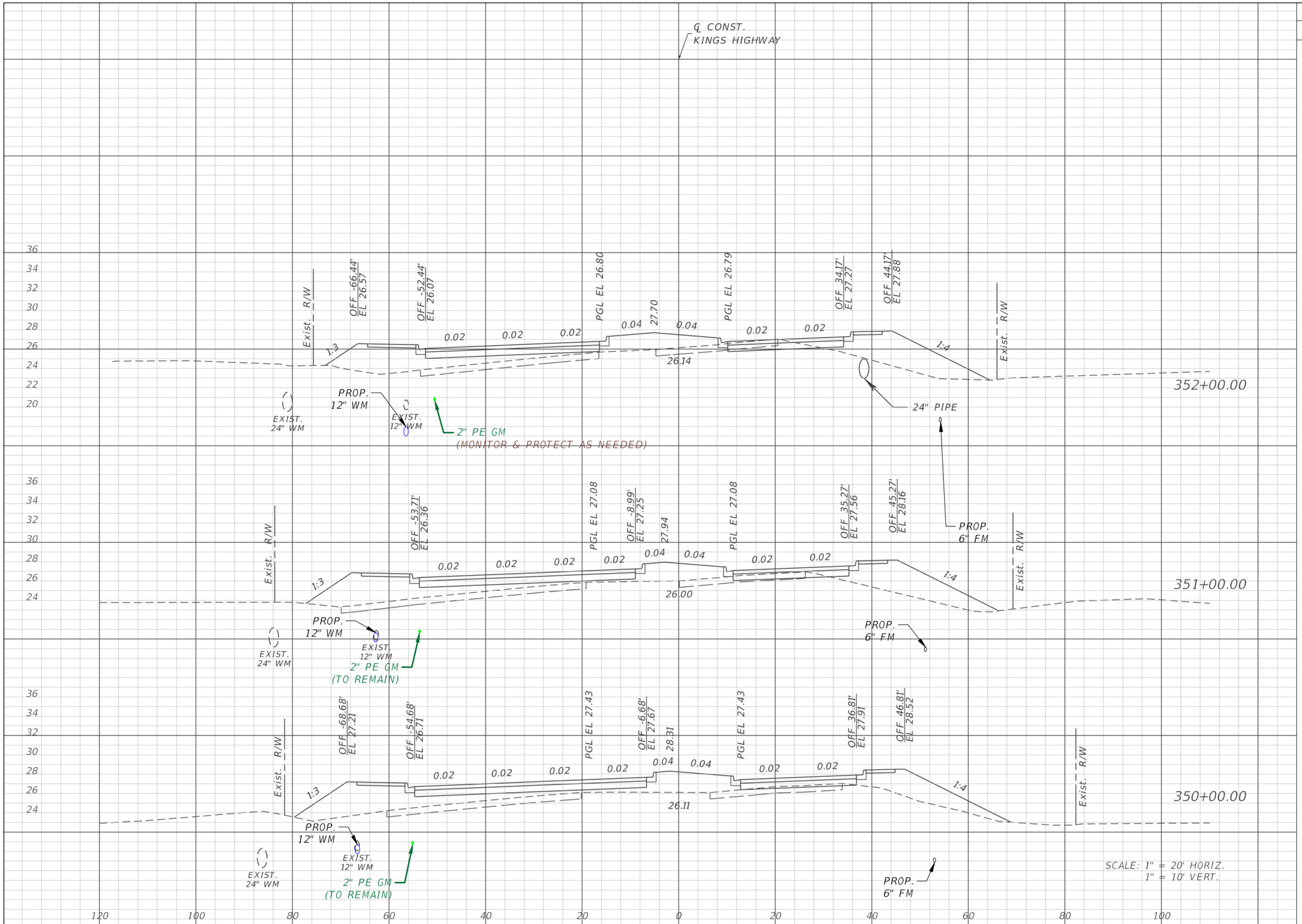
CROSS SECTIONS

SHEET NO. 28



Regular Exc.		Embankment	
A	V	A	V
9	19	164	611
2	4	166	614
0	1	165	544

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
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CROSS SECTIONS

SHEET NO. 29

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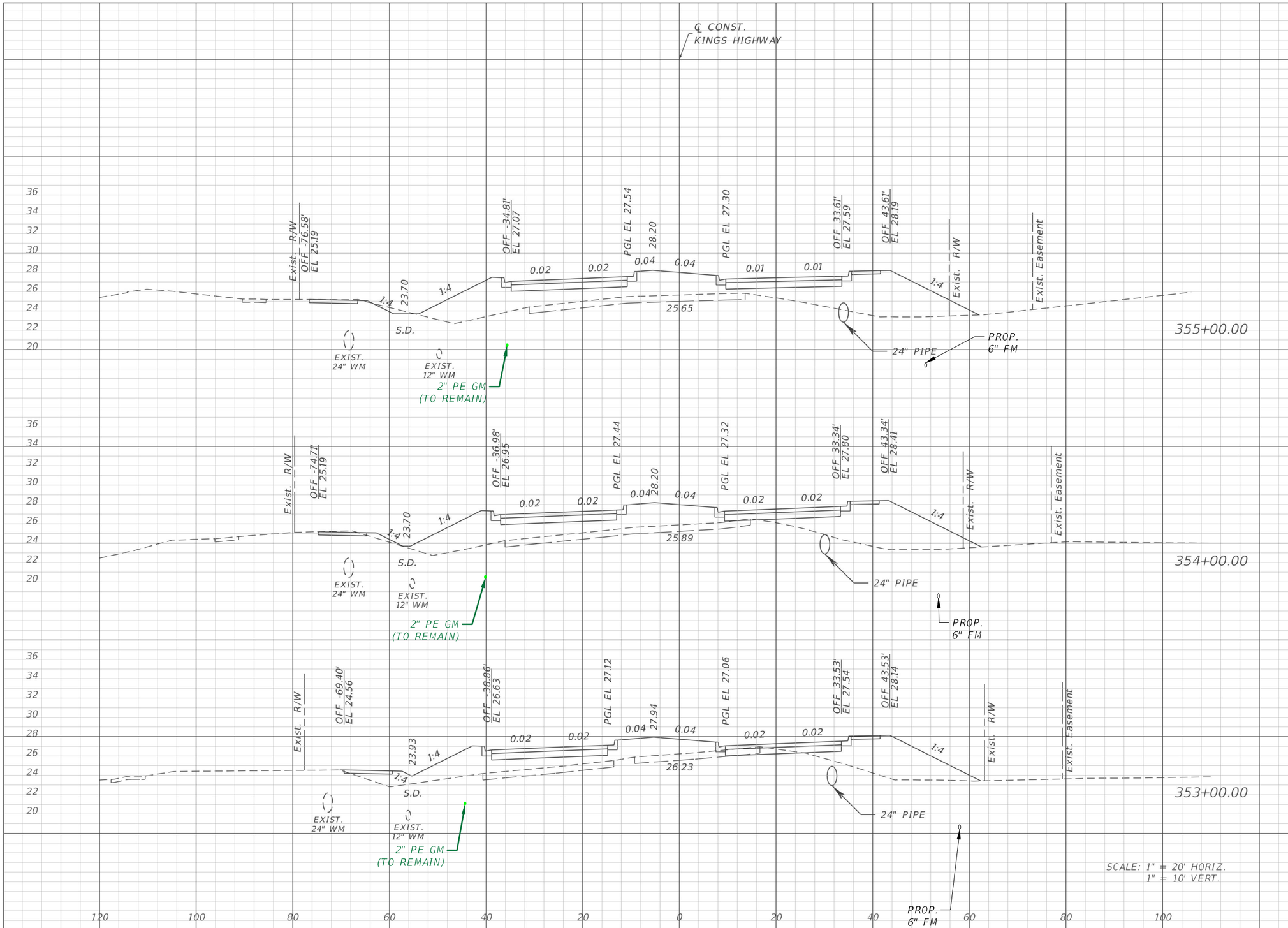

Regular Exc.		Embankment	
A	V	A	V
13	47	287	1038
13	39	273	918
9	32	223	715

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
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CROSS SECTIONS

SHEET NO. 30

Gallegos, Camerino 11/26/2024 2:36:47 PM C:\68\68-0166.00 TECO PEOPLES GAS\68-0166.65 Kings Highway Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0166.65 RGB-TECO-PGS_X SECTIONS.dwg

Regular Exc.		Embankment	
A	V	A	V
6	32	167	697
12	53	209	851
17	54	251	996

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
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ROAD NO.	COUNTY	PROJECT ID
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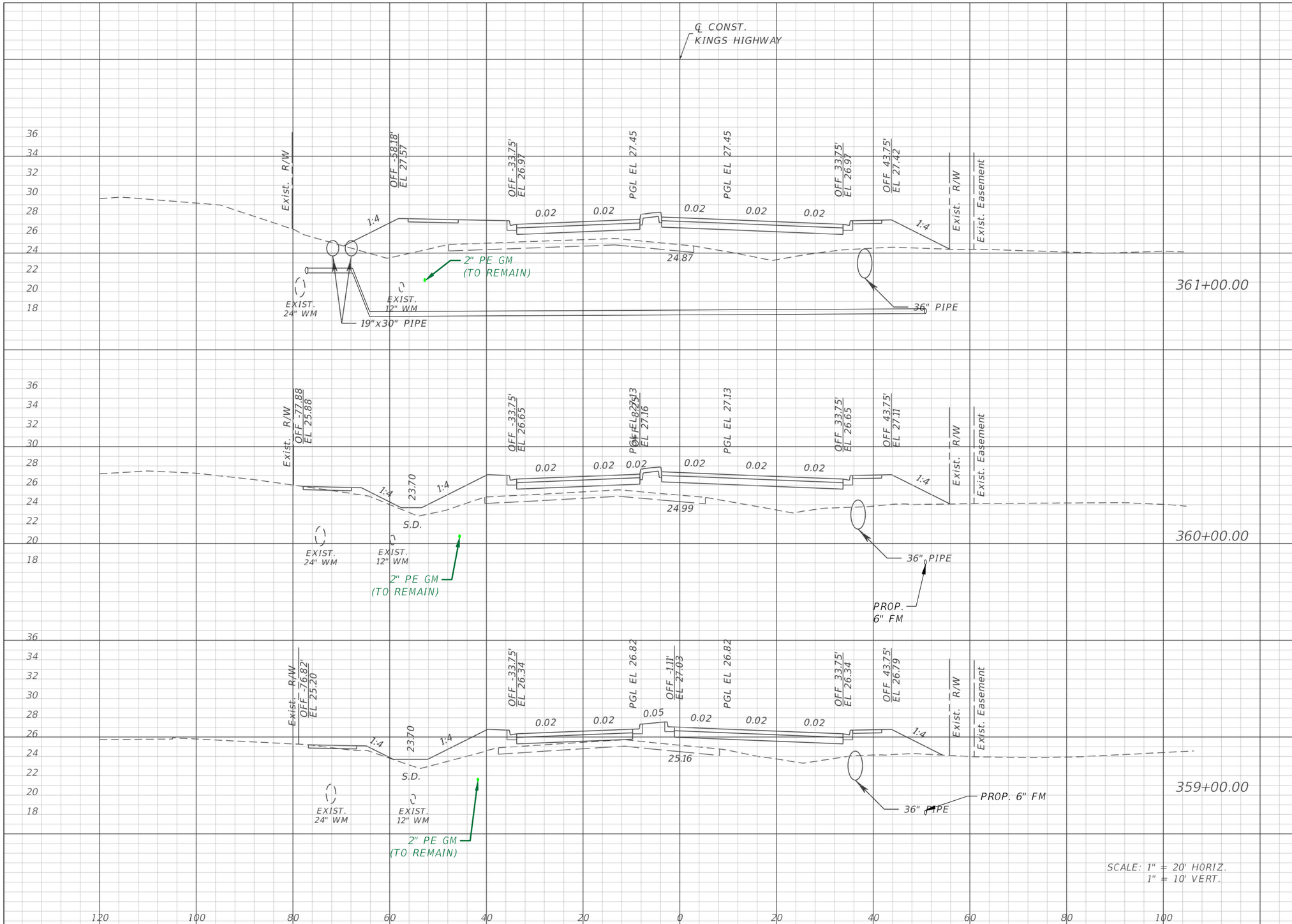
CROSS SECTIONS

SHEET NO. 31

Gallegos, Camerino 11/26/2024 2:36:48 PM C:\68\68-0166.00 TECO PEOPLES GAS\68-0166.65 Kings Highway Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0166.65 RGB-TECO-PGS_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
6	41	225	817
16	48	216	711
10	28	168	621

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
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CHARLOTTE COUNTY
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CROSS SECTIONS

SHEET NO. 32

Gallegos, Camerino 11/26/2024 2:36:49 PM C:\68\68-0166.00 TECO PEOPLES GAS\68-0166.65 Kings Highway Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0166.65 RGB-TECO-PGS_X SECTIONS.dwg

Regular Exc.		Embankment	
A	V	A	V
0	1	164	697
0	3	212	745
1	13	190	770

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
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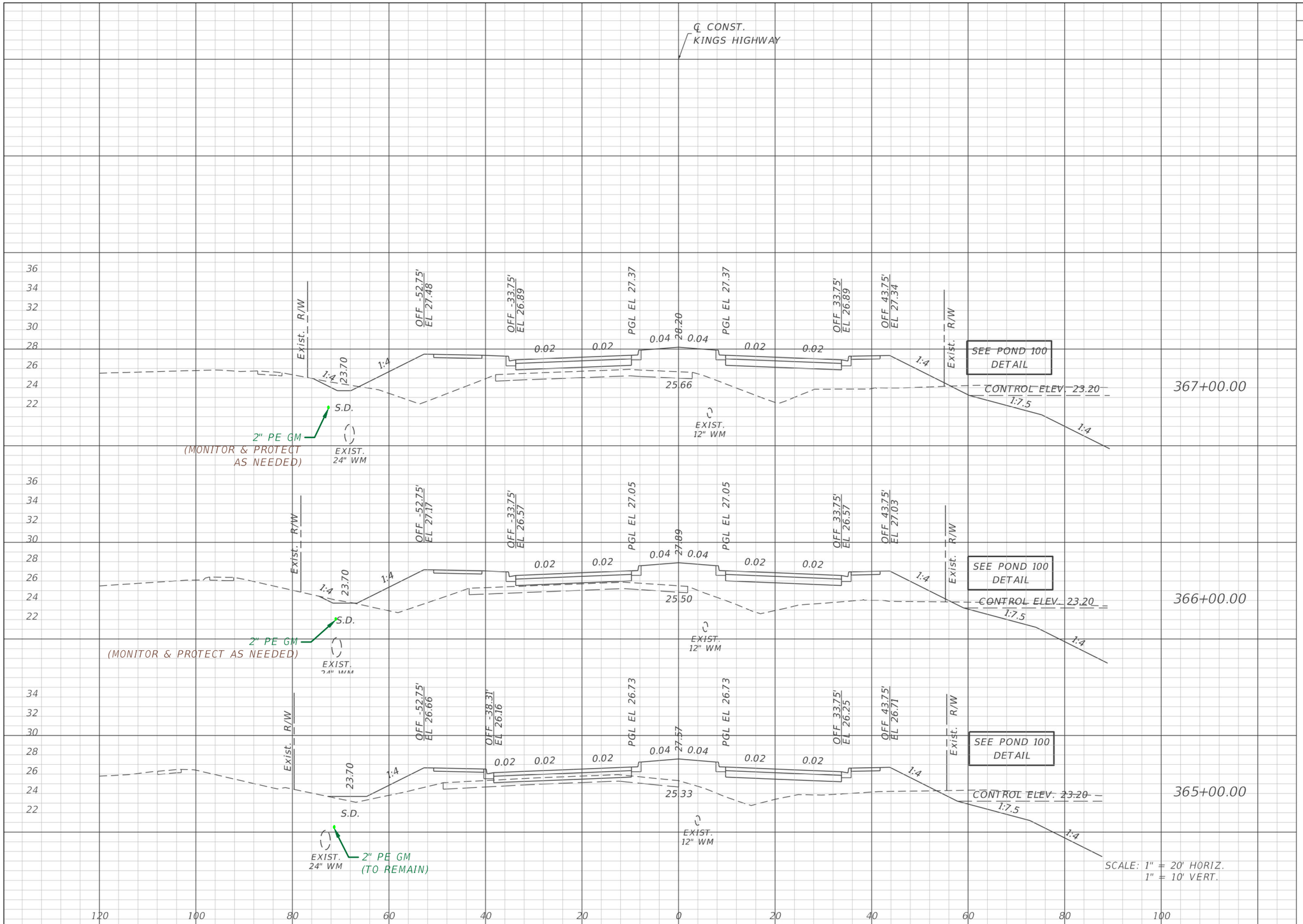
CROSS SECTIONS

SHEET NO. 33

Gallegos, Camerino 11/26/2024 2:36:50 PM C:\68\68-0166.00 TECO PEOPLES GAS\68-0166.65 Kings Highway Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0166.65 RGB-TECO-PGS_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
6	14	255	867
2	4	213	674
0	0	151	584

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
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CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

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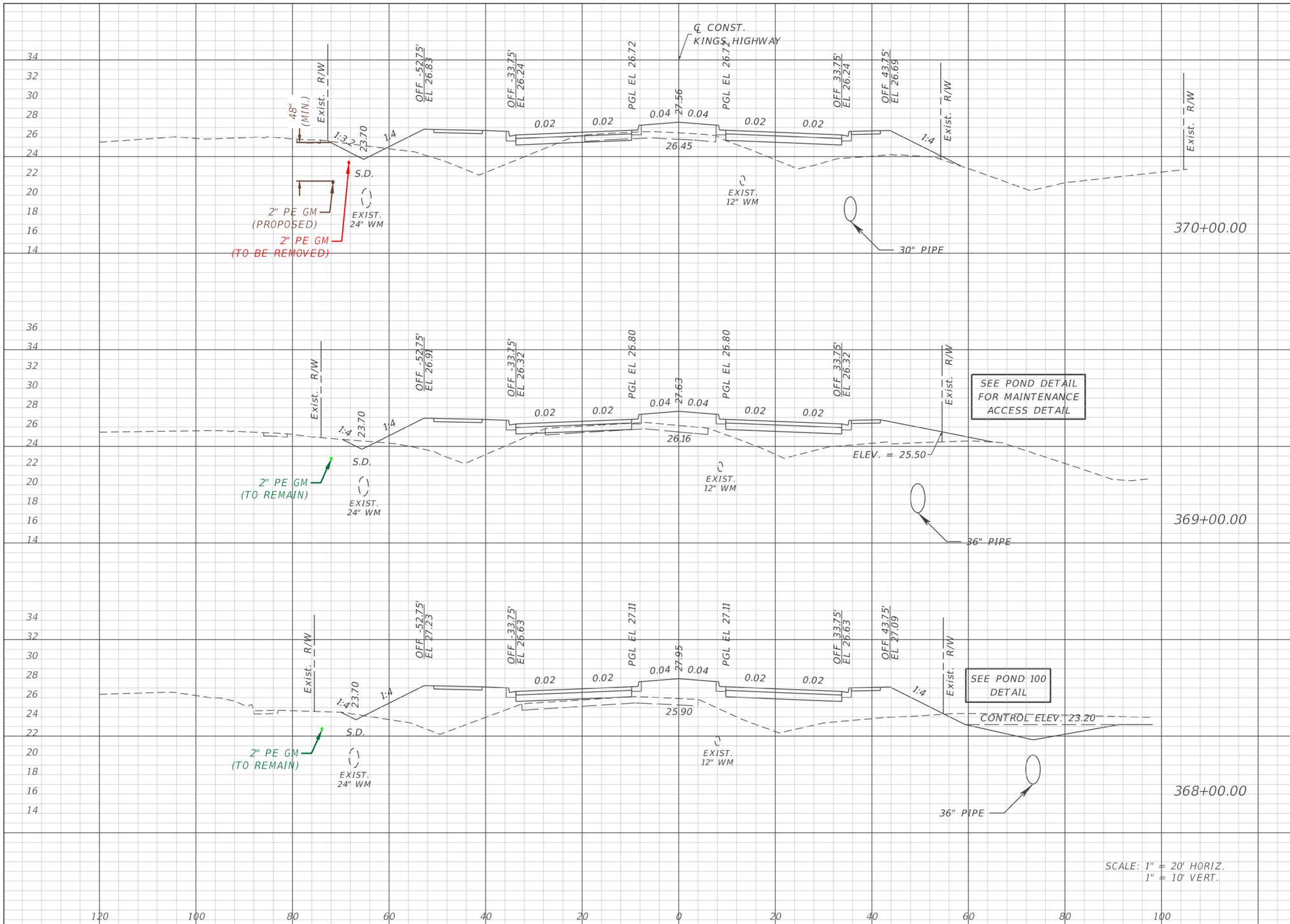
CROSS SECTIONS

SHEET NO. 34



	Regular Exc.		Embankment	
	A	V	A	V
370+00.00	15	42	169	634
369+00.00	8	26	173	757
368+00.00	6	22	235	907

REVISIONS			
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TECO PEOPLES GAS
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CHARLOTTE COUNTY
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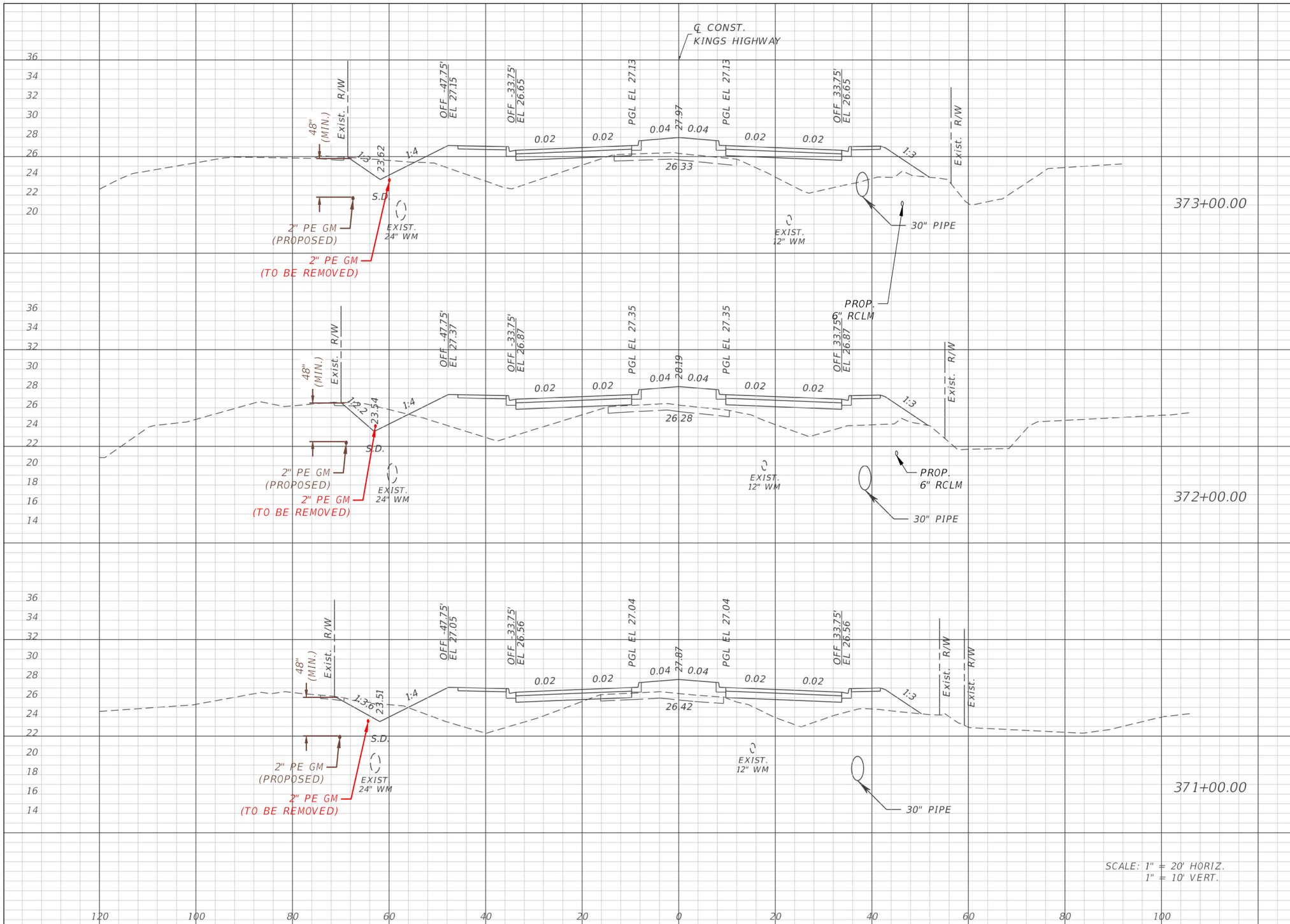
CROSS SECTIONS

SHEET NO. 35

Gallegos, Camerino 11/26/2024 2:36:52 PM C:\68\68-0166.00 TECO PEOPLES GAS\68-0166.65 Kings Highway Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0166.65 RGB-TECO-PGS_X SECTIONS.dwg



	Regular Exc.		Embankment	
	A	V	A	V
373+00.00	14	60	198	741
372+00.00	18	60	202	694
371+00.00	14	53	173	633

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
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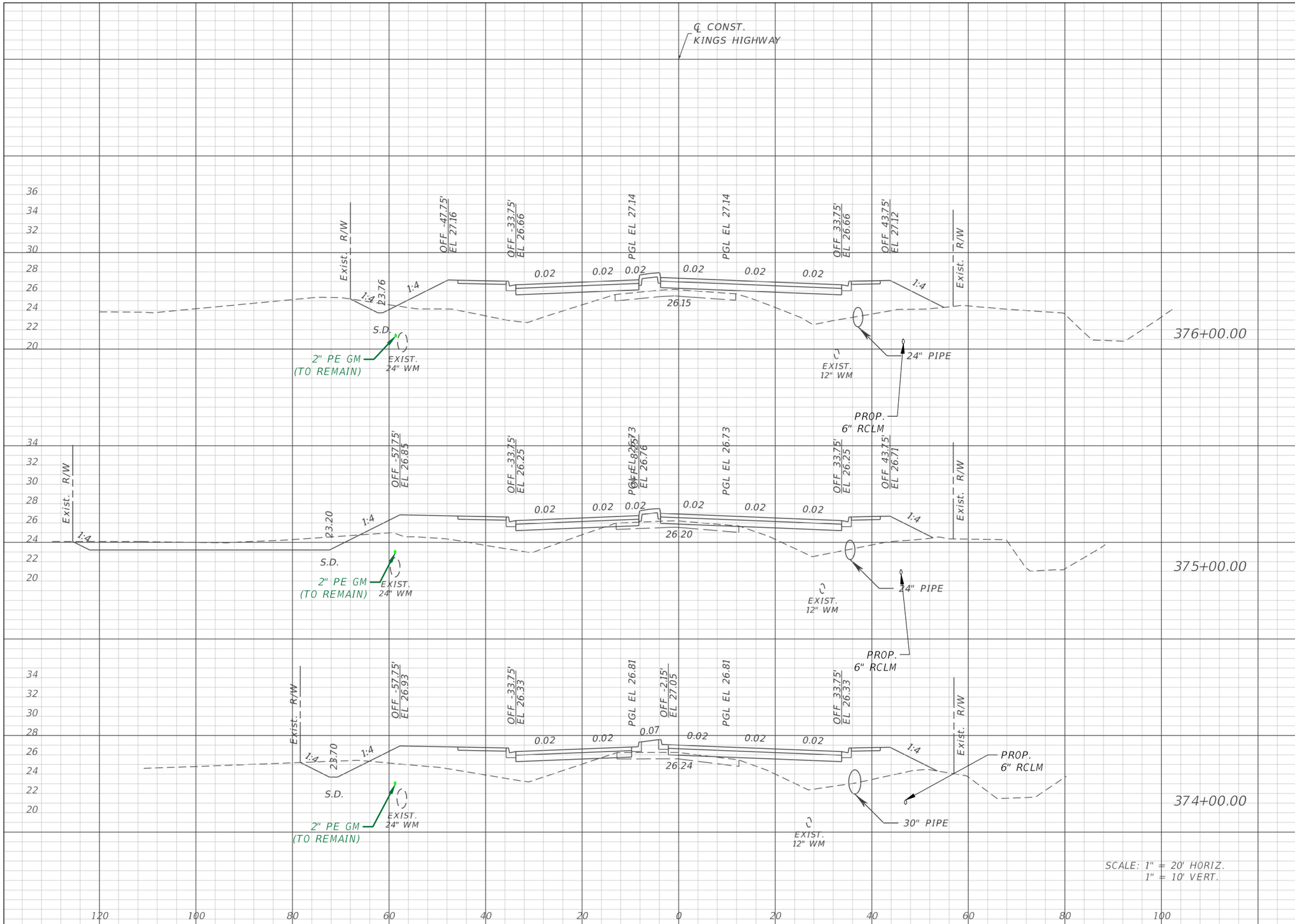
CROSS SECTIONS

SHEET NO. 36

Gallegos, Camerino 11/26/2024 2:36:53 PM C:\68\68-0166.00 TECO PEOPLES GAS\68-0166.65 Kings Highway Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0166.65 RGB-TECO-PGS_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
5	79	198	635
38	103	145	550
18	60	152	649

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
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CHARLOTTE COUNTY
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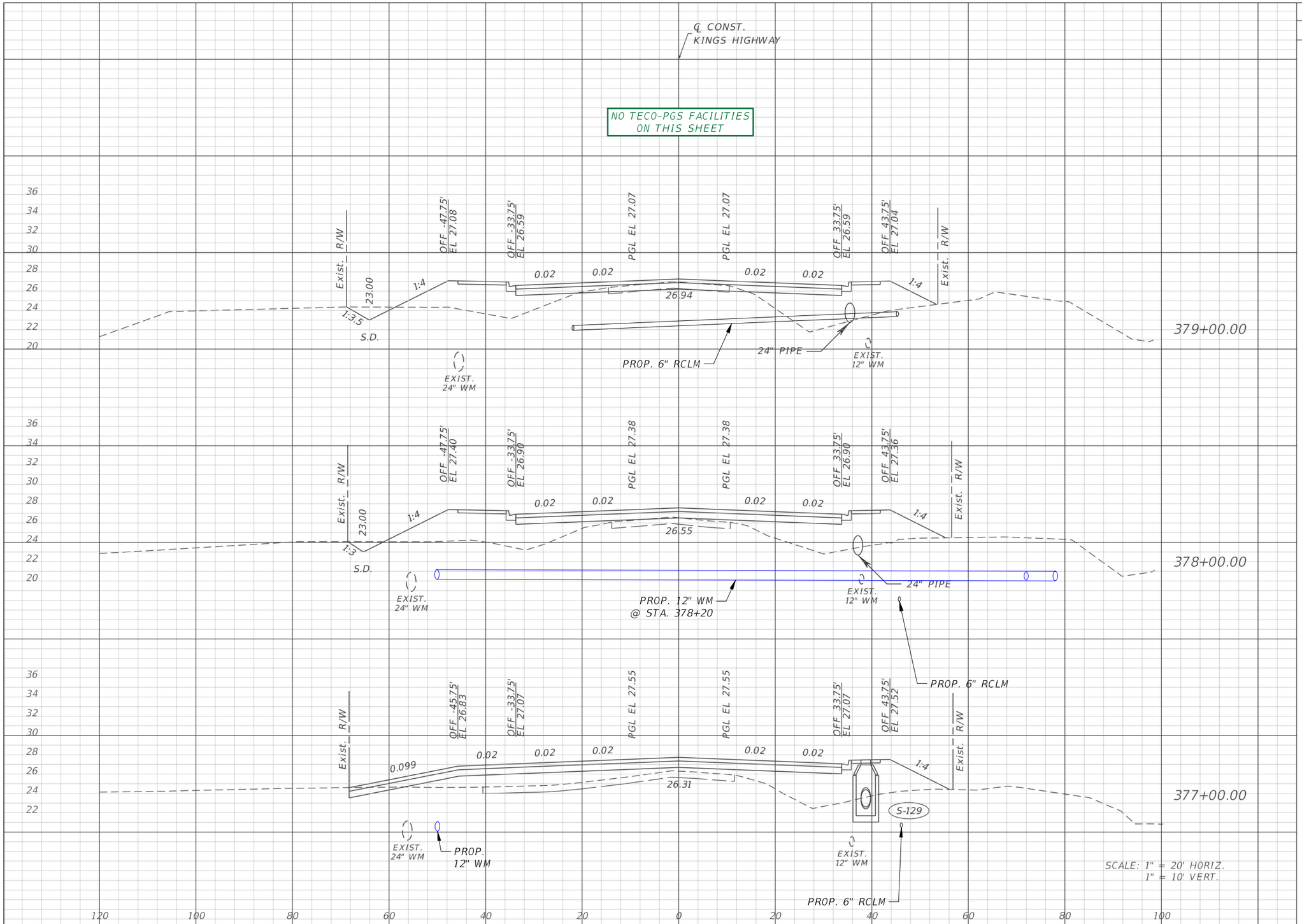
CROSS SECTIONS

SHEET NO. 37

Gallegos, Camerino 11/26/2024 2:36:54 PM C:\68\68-0166.00 TECO PEOPLES GAS\68-0166.65 Kings Highway Widening Sandhill Blvd to Courtly Manor Dr\Drawings\RGB\68-0166.65 RGB-TECO-PGS_X SECTIONS.dwg



Regular Exc.		Embankment	
A	V	A	V
10	26	161	645
4	19	187	649
6	21	163	670

REVISIONS			
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TECO PEOPLES GAS
AN EMERA COMPANY

CHARLOTTE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
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CROSS SECTIONS

SHEET NO. 38

Charlotte County / TECO Peoples Gas

Utility Relocation Agreement for

Kings Highway Widening

Charlotte County has **Kings Highway Widening - from Sandhill Blvd to DeSoto County Line**. This project may include impacts to public utilities within the corridor.

General Description of the Project:

This project will be constructing: 2 to 4 lane widening of existing Kings Highway with associated drainage, street lighting and utility (CCU) improvements.

Project Schedule:

- Design Started: February 2023
  - 30% Plans Delivered to Utility: NA
  - Comments Received from Utility: NA
  - 60% Plans Delivered to Utility: NA
  - Comments Received from Utility: NA
  - 90% Plans Delivered to Utility: September 2024
  - Comments Received from Utility: TBD
- 100% Plans Dated: TBD
- Acquisition Started: NA

Anticipated Schedule

- Acquisition Complete: NA
- Bidding Starts: Est Q4 2024
- Construction Starts: Est Q1/Q2 2025
- Construction Complete: Est Q2/Q3 2026

County Project Manger

Jeff Keyser
410 Taylor Street, Unit #104
Punta Gorda, Florida 33950
Phone: (941) 575-3644
Email: jeff.keyser@charlottecountyfl.gov

Charlotte County / TECO Peoples Gas

Utility Relocation Agreement for

Kings Highway Widening

To help ensure all parties have an understanding of what your company needs to accomplish to allow the construction to be completed, Charlotte County is requesting you detail the conflicts the proposed design has with your facilities.

Based on the 90% construction plans dated September 2024, I have determined there are:

_____ No identified conflicts with our facilities

Please sign this form and return it to the County's Project Manager

OR

___X___ Conflicts have been identified with our facilities.

Please detail each task you will need accomplished to resolve the identified conflicts on the following sheet(s), then sign this form and return it along will all associated conflict sheet(s), to the County's Project Manager

---

Submitted by __Alex McFarlane_____ representing _____TECO Peoples Gas_____

(Print Name) (Company Name)

on _____. Total number of pages included _____8_____.

(Date)

_____

(Signature)

Charlotte County / TECO Peoples Gas

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 1

1. **What is the conflict?**
   <u>2" PE GM.</u>

2. **Location or Limits (using construction plans stationing and offsets):**
   <u>346+70, 57' LT to 346+90, 57' LT.</u>

3. **Proposed resolution:**
   <u>Monitor, Protect or Adjust.</u>

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   <u>Staking and Construction of S-101.</u>

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   <u>3 to 5 days notification prior to construction of S-102.</u>

6. **Time required to resolve this conflict once Item #4 is complete?**
   <u>1 day to perform locates of GM and Monitor, Protect or Adjust.</u>

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   <u>Not aware of any.</u>

8. **Other Information:**
   <u>Provide as much lead time as possible for TECO Peoples Gas to mobilize.</u>

Charlotte County / TECO Peoples Gas

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 2

1. **What is the conflict?**
   <u>2" PE GM.</u>

2. **Location or Limits (using construction plans stationing and offsets):**
   <u>351+74, 52' LT to 352+04, 50' LT.</u>

3. **Proposed resolution:**
   <u>Monitor, Protect or Adjust.</u>

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   <u>Staking and Construction of S-111.</u>

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   <u>3 to 5 days notification prior to construction of S-112.</u>

6. **Time required to resolve this conflict once Item #4 is complete?**
   <u>1 day to perform locates of GM and Monitor, Protect or Adjust.</u>

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   <u>Not aware of any.</u>

8. **Other Information:**
   <u>Provide as much lead time as possible for TECO Peoples Gas to mobilize.</u>

Charlotte County / TECO Peoples Gas

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 3

1. **What is the conflict?**
   <u>2" PE GM.</u>

2. **Location or Limits (using construction plans stationing and offsets):**
   <u>358+00, 39' LT to 358+30, 39' LT.</u>

3. **Proposed resolution:**
   <u>Monitor, Protect or Adjust.</u>

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   <u>Staking and Construction of S-112.</u>

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   <u>3 to 5 days notification prior to construction of S-102.</u>

6. **Time required to resolve this conflict once Item #4 is complete?**
   <u>1 day to perform locates of GM and Monitor, Protect or Adjust.</u>

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   <u>Not aware of any.</u>

8. **Other Information:**
   <u>Provide as much lead time as possible for TECO Peoples Gas to mobilize.</u>

Charlotte County / TECO Peoples Gas

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 4

1. **What is the conflict?**
   UG Marker & Gas Valve.

2. **Location or Limits (using construction plans stationing and offsets):**
   361+31, 57' LT & 65' LT.

3. **Proposed resolution:**
   Adjust to Final Grade.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Construction of fill and grading.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   3 to 5 days notification prior to fill and grading.

6. **Time required to resolve this conflict once Item #4 is complete?**
   1 day to adjust elevation of UG Marker and Gas Valve.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for TECO Peoples Gas to mobilize.

Charlotte County / TECO Peoples Gas

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 5

1. **What is the conflict?**
   <u>2" PE GM.</u>

2. **Location or Limits (using construction plans stationing and offsets):**
   <u>365+67, 71' LT to 367+68, 74' LT.</u>

3. **Proposed resolution:**
   <u>Monitor, Protect or Adjust.</u>

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   <u>Staking and Construction of swale cut.</u>

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   <u>3 to 5 days notification prior to construction of swale.</u>

6. **Time required to resolve this conflict once Item #4 is complete?**
   <u>1 day to perform locates of GM and Monitor, Protect or Adjust.</u>

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   <u>Not aware of any.</u>

8. **Other Information:**
   <u>Provide as much lead time as possible for TECO Peoples Gas to mobilize.</u>

Charlotte County / TECO Peoples Gas

Utility Relocation Agreement for

Kings Highway Widening

Conflict # 6

1. **What is the conflict?**
   2" PE GM.

2. **Location or Limits (using construction plans stationing and offsets):**
   369+13, 72' LT to 373+78, 59' LT.

3. **Proposed resolution:**
   To Be Removed and Replaced.

4. **What will the County's Contractor have to accomplish in order for you to start the conflict resolution?**
   Staking of ROW and swale cut.

5. **Lead time you will need to be able to have the necessary supplies, manpower and equipment in place to resolve this conflict:**
   40 days notification prior to construction of swale cut for permitting.

6. **Time required to resolve this conflict once Item #4 is complete?**
   10 days to remove and install new 2" PE GM.

7. **Other Utilities directly impacted by your proposed resolution to the conflict:**
   Not aware of any.

8. **Other Information:**
   Provide as much lead time as possible for TECO Peoples Gas to mobilize.