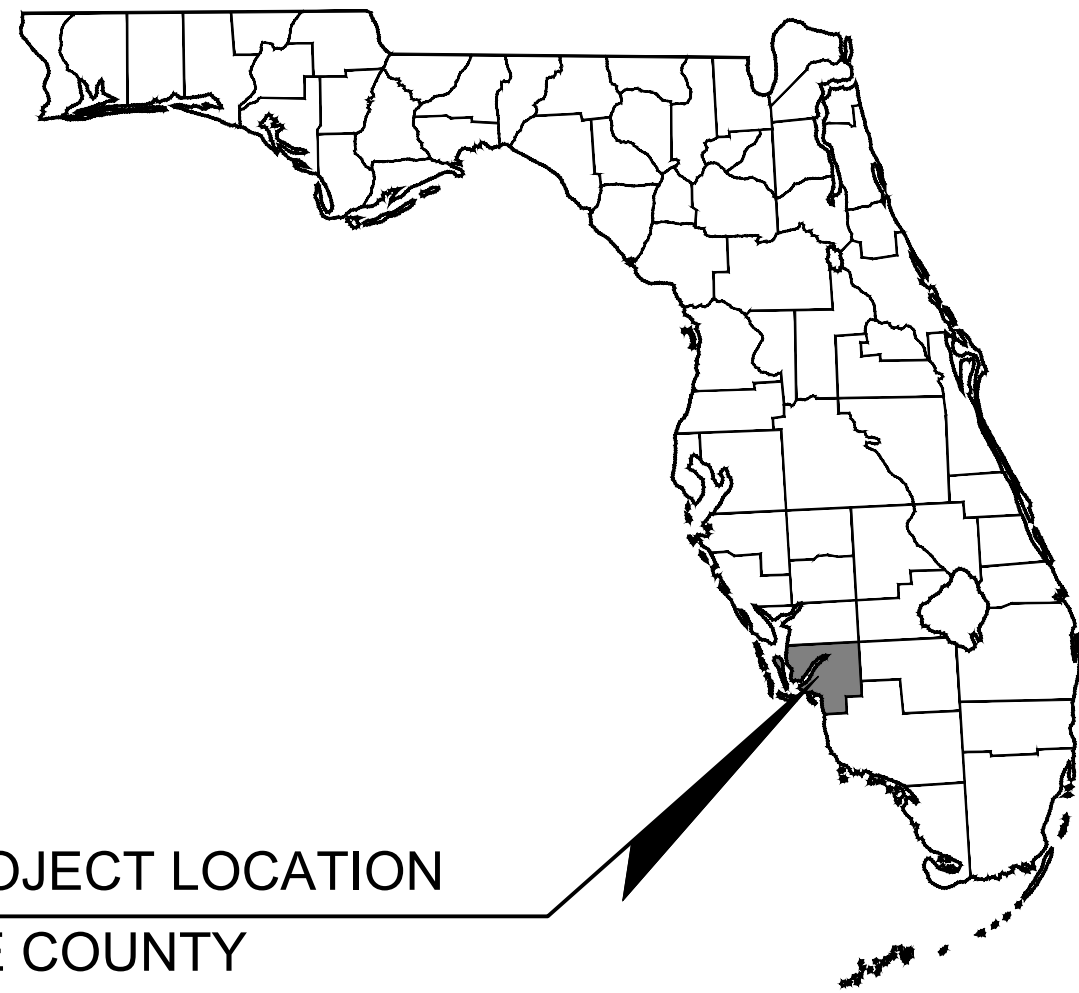


K:\FTM_Civil\48220020 - Iona_Drainage\CAD\PlanSheets\C-100 COVER SHEET.dwg
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PROJECT LOCATION
LEE COUNTY

100% CONSTRUCTION PLANS FOR IONA DRAINAGE DISTRICT CANAL H-7 DRAINAGE

DECEMBER 2021

SECTIONS 14, 15, 22, 23
TOWNSHIPS 45 SOUTH, RANGE 24 EAST
LEE COUNTY, FLORIDA

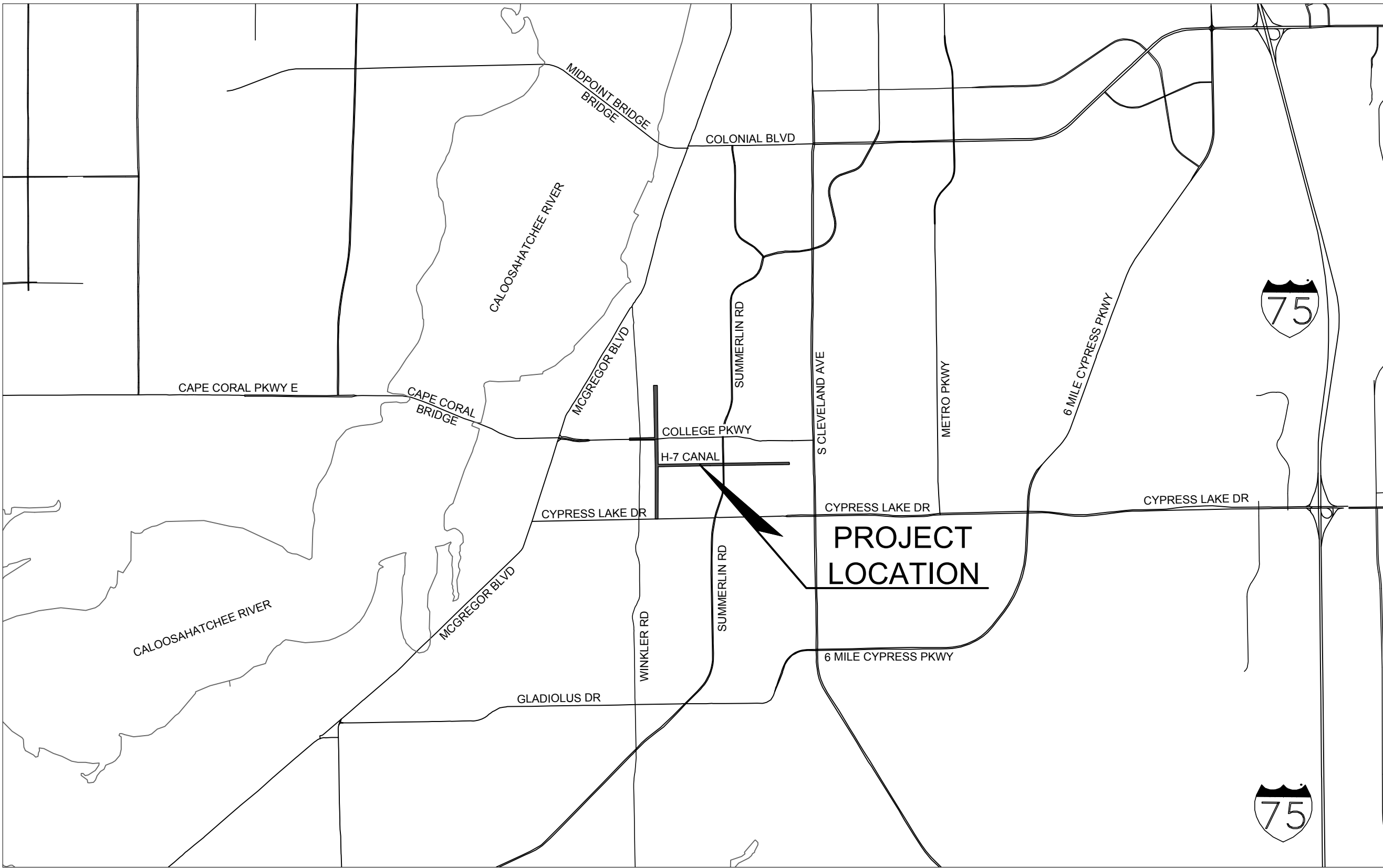


BOARD OF COUNTY COMMISSIONERS:
DISTRICT 1: KEVIN RUANE, CHAIRMAN
DISTRICT 2: CECIL PENDERGRASS, VICE CHAIRMAN
DISTRICT 3: RAY SANDELLI
DISTRICT 4: BRIAN HAMMAN
DISTRICT 5: FRANK MANN

COUNTY MANAGER: ROGER DESJARLAIS

DEPUTY MANAGER: DAVE HARNER

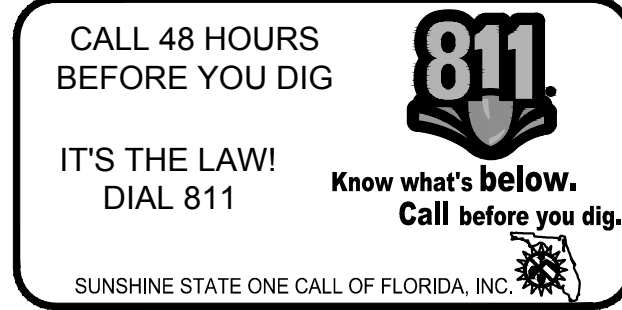
NATURAL RESOURCE DIRECTOR: ROLAND OTTOLINI



VICINITY MAP

PREPARED BY
Kimley»Horn

C 2021 KIMLEY-HORN AND ASSOCIATES, INC.
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PHONE: 239-271-2650 FAX: 941-379-4352
WWW.KIMLEY-HORN.COM REGISTRY NO. 696



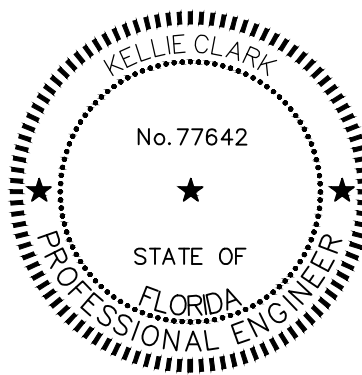
PREPARED FOR LEE COUNTY
DIVISION OF NATURAL RESOURCES
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FORT MYERS, FLORIDA
PHONE: (239) 533-8109

ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
1412 JACKSON STREET, SUITE #2
FORT MYERS, FLORIDA 33901
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SURVEY
E.F. GAINES SURVEYING SERVICES, INC.
5235 RAMSEY WAY
FORT MYERS, FLORIDA 33907
PHONE: (239) 418-0126

GEOTECHNICAL ENGINEER
ECS FLORIDA, LLC
13850 TREELINE AVE S SUITE 4
FORT MYERS, FLORIDA 33913
PHONE: (239) 236-7511

INDEX OF SHEETS	
SHEET NO.	SHEET TITLE
C-100	TITLE SHEET
C-101	GENERAL NOTES
C-102	AERIAL LOCATION MAP
C-103	EXISTING CONDITIONS AND SURVEY NOTES
C-104	EXISTING STRUCTURE DETAIL
C-200	DEMOLITION STRUCTURE DETAIL
C-300	PROPOSED CONDITIONS
C-301	PROPOSED STRUCTURE DETAIL
C-302	CONSTRUCTION PLAN
S-001	STRUCTURAL DETAILS



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1412 JACKSON STREET, SUITE 2
FORT MYERS, FL 33901
239-271-2650
CERTIFICATE OF AUTHORIZATION NO. 696
KELLIE CLARK, P.E. NO. 77642

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN
ACCORDANCE WITH RULE 61G15-23.004, F.A.C.
SHEET NUMBERS:
C-100, C-101, C-200, C-300, C-301, C-302

Plotted By: Ashley Gregory, Sheet Set: k10a Layout: C-101 General Notes December 21, 2021 09:16:34am K:\VTM-Civil\148220020 - Iona Drainage\CAD\PlanSheets\C-101 Gen Notes.dwg

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GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR ALL AREAS INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.

3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. A LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER OF RECORD.

8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND CONSTRUCTION PROCEDURES.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING STORMWATER FLOWS THROUGH THE PROJECT AREA DURING A STORM EVENT AND THROUGHOUT THE DURATION OF CONSTRUCTION.

13. CONCRETE:

A. CONCRETE SHALL CONFORM TO SECTION 346 OF THE FDOT JULY 2021 STANDARD SPECIFICATIONS. CONCRETE SHALL BE CLASS III WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI.

B. PROVIDE 4" CONCRETE COVER OVER REINFORCING BARS EXCEPT AS OTHERWISE NOTED.

C. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES EXCEPT AS OTHERWISE NOTED.

D. FINISH ACCORDANCE WITH ARTICLE 400-15 OF THE SPECIFICATIONS UNLESS OTHERWISE NOTED. FINISH ALL EXPOSED CONCRETE SURFACES WITH A CLASS 2 SURFACE FINISH.

14. REINFORCEMENT:

A. REINFORCING STEEL SHALL BE A.S.T.M. A-615 WITH SUPPLEMENT, GRADE 60.

B. ALL REINFORCEMENT SHALL BE UNCOATED (BLACK).

C. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING BARS ARE TO BE CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.

2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. SEE CONSTRUCTION PHASE SHEETS FOR ITEMS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.

3. PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE. CONTRACTOR SHALL PROTECT THE WORK, ADJACENT PROPERTY, AND THE PUBLIC. CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

2. ALL UNPAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.

3. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.

4. THE CONTRACTOR SHALL INSTALL TURBIDITY BARRIER DOWNSTREAM OF THE PROJECT AREA FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. THE TURBIDITY BARRIER SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO ENSURE PROPER FUNCTION.

5. CONTRACTOR TO PROVIDE DEWATERING PLAN AND SHALL OBTAIN A WATER USE PERMIT FOR THE WITHDRAWAL OF WATER FOR CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE ENGINEER OF RECORD PRIOR TO ANY EXCAVATION.

6. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED PER PLANS. THE AREAS SHALL THEN BE SODDED AS SPECIFIED IN THE PLANS, AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

8. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE.

9. SOD TYPE AS REQUIRED BY FLORIDA SOUTHWESTERN STATE COLLEGE SHALL BE USED WHERE SOD IS CALLED FOR. SOD MUST BE INSTALLED IN ACCORDANCE WITH SECTION 570 OF THE FDOT JULY 2021 STANDARD SPECIFICATIONS. SOD SHALL BE MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.

10. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.

EROSION CONTROL NOTES

1. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION "SWPPP" SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

2. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

3. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

4. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.

5. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

6. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

8. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

10. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.

11. ON-SITE & OFF SITE SOIL STOCKPILE AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

12. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.

13. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

14. RUBBLE RIPRAP SHALL MEET THE REQUIREMENTS OF SECTION 530 OF THE FDOT 2018 STANDARD SPECIFICATIONS.

MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

2. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

3. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC CLEANING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

4. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

IONA DRAINAGE DISTRICT
CANAL H-7 DRAINAGE
PREPARED FOR
DIVISION OF NATURAL
RESOURCES

LEE COUNTY
FLORIDA

SHEET NUMBER
C-101

Kimley»Horn

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LICENSED PROFESSIONAL
KELLY CLARK, P.E.
FLORIDA LICENSE NUMBER
77642

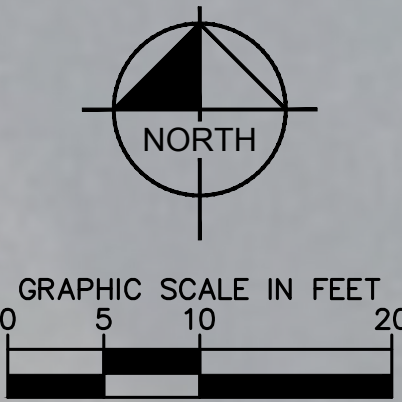
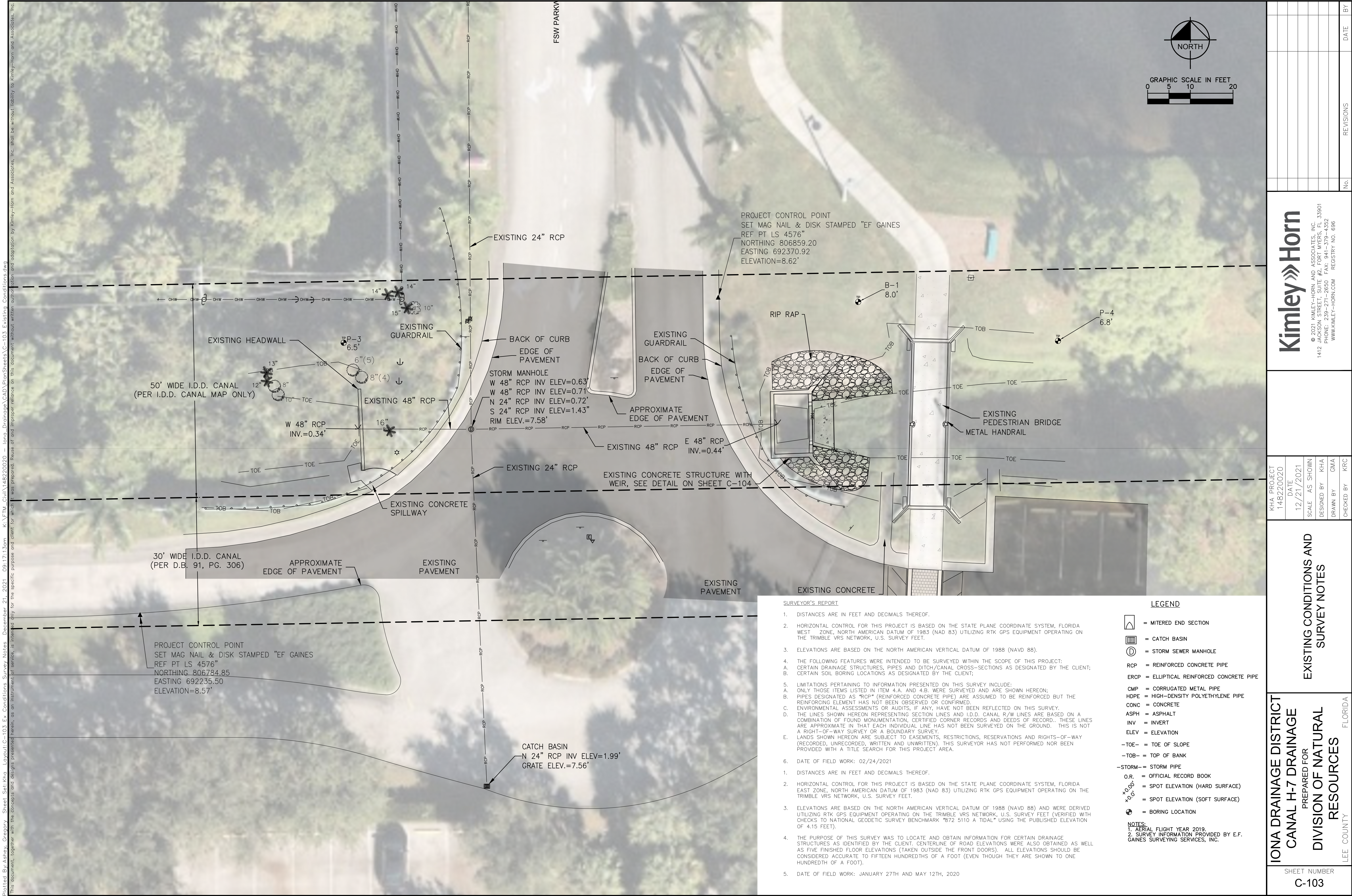
KHA PROJECT
148220020
DATE
12/21/2021
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY GWA
CHECKED BY KRC

GENERAL NOTES

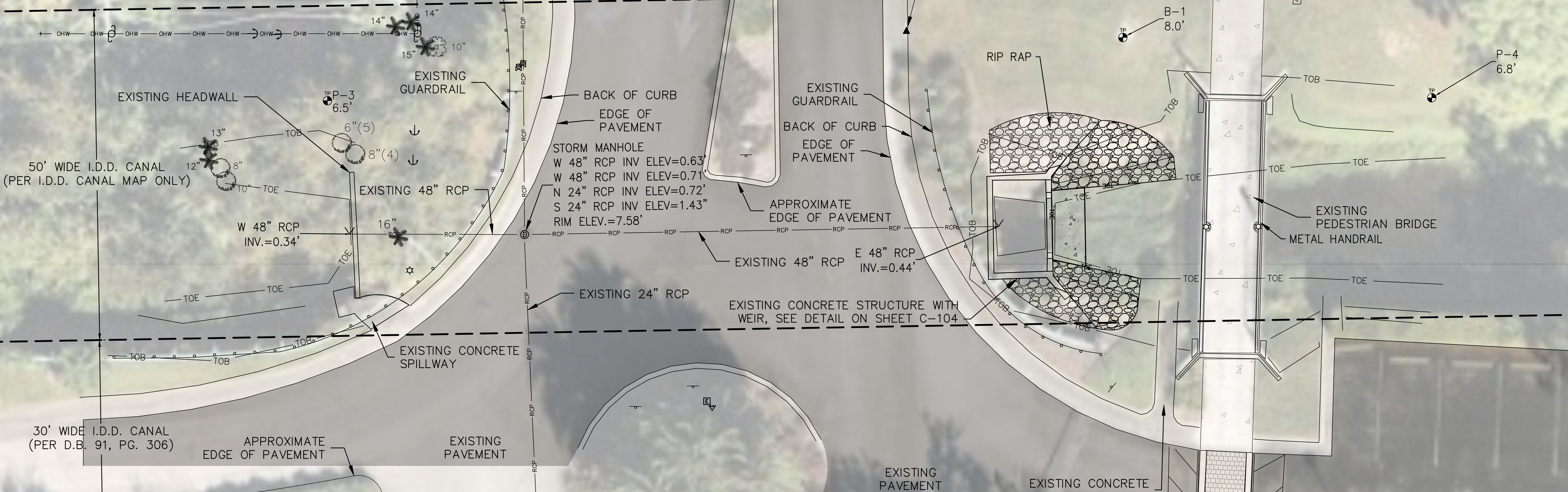
DATE

REVISIONS

No.



PROJECT CONTROL POINT
SET MAG NAIL & DISK STAMPED "EF GAINES
REF PT LS 4576"
NORTHING 806859.20
EASTING 692370.92
ELEVATION=8.62'



SURVEYOR'S REPORT

- DISTANCES ARE IN FEET AND DECIMALS THEREOF.
- HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83) UTILIZING RTK GPS EQUIPMENT OPERATING ON THE TRIMBLE VRS NETWORK, U.S. SURVEY FEET.
- ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- THE FOLLOWING FEATURES WERE INTENDED TO BE SURVEYED WITHIN THE SCOPE OF THIS PROJECT:
A. CERTAIN DRAINAGE STRUCTURES, PIPES AND DITCH/CANAL CROSS-SECTIONS AS DESIGNATED BY THE CLIENT;
B. CERTAIN SOIL BORING LOCATIONS AS DESIGNATED BY THE CLIENT;
- LIMITATIONS PERTAINING TO INFORMATION PRESENTED ON THIS SURVEY INCLUDE:
A. ONLY THOSE ITEMS LISTED IN ITEM 4.A. AND 4.B. WERE SURVEYED AND ARE SHOWN HEREON;
B. PIPES DESIGNATED AS "RCP" (REINFORCED CONCRETE PIPE) ARE ASSUMED TO BE REINFORCED BUT THE REINFORCING ELEMENT HAS NOT BEEN OBSERVED OR CONFIRMED;
C. ENVIRONMENTAL ASSESSMENTS OR AUDITS, IF ANY, HAVE NOT BEEN REFLECTED ON THIS SURVEY;
D. THE LINES SHOWN HEREON REPRESENTING SECTION LINES AND I.D.D. CANAL R/W LINES ARE BASED ON A COMBINATION OF FOUND MONUMENTATION, CERTIFIED CORNER RECORDS AND DEEDS OF RECORD. THESE LINES ARE APPROXIMATE IN THAT EACH INDIVIDUAL LINE HAS NOT BEEN SURVEYED ON THE GROUND. THIS IS NOT A RIGHT-OF-WAY SURVEY OR A BOUNDARY SURVEY.
E. LANDS SHOWN HEREON ARE SUBJECT TO EASEMENTS, RESTRICTIONS, RESERVATIONS AND RIGHTS-OF-WAY (RECORDED, UNRECORDED, WRITTEN AND UNWRITTEN). THIS SURVEYOR HAS NOT PERFORMED NOR BEEN PROVIDED WITH A TITLE SEARCH FOR THIS PROJECT AREA.
- DATE OF FIELD WORK: 02/24/2021
- DISTANCES ARE IN FEET AND DECIMALS THEREOF.
- HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83) UTILIZING RTK GPS EQUIPMENT OPERATING ON THE TRIMBLE VRS NETWORK, U.S. SURVEY FEET.
- ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND WERE DERIVED UTILIZING RTK GPS EQUIPMENT OPERATING ON THE TRIMBLE VRS NETWORK, U.S. SURVEY FEET (VERIFIED WITH CHECKS TO NATIONAL GEODETIC SURVEY BENCHMARK "872 5110 A TIDAL" USING THE PUBLISHED ELEVATION OF 4.15 FEET).
- THE PURPOSE OF THIS SURVEY WAS TO LOCATE AND OBTAIN INFORMATION FOR CERTAIN DRAINAGE STRUCTURES AS IDENTIFIED BY THE CLIENT. CENTERLINE OF ROAD ELEVATIONS WERE ALSO OBTAINED AS WELL AS FIVE FINISHED FLOOR ELEVATIONS (TAKEN OUTSIDE THE FRONT DOORS). ALL ELEVATIONS SHOULD BE CONSIDERED ACCURATE TO FIFTEEN HUNDREDTHS OF A FOOT (EVEN THOUGH THEY ARE SHOWN TO ONE HUNDREDTH OF A FOOT).
- DATE OF FIELD WORK: JANUARY 27TH AND MAY 12TH, 2020

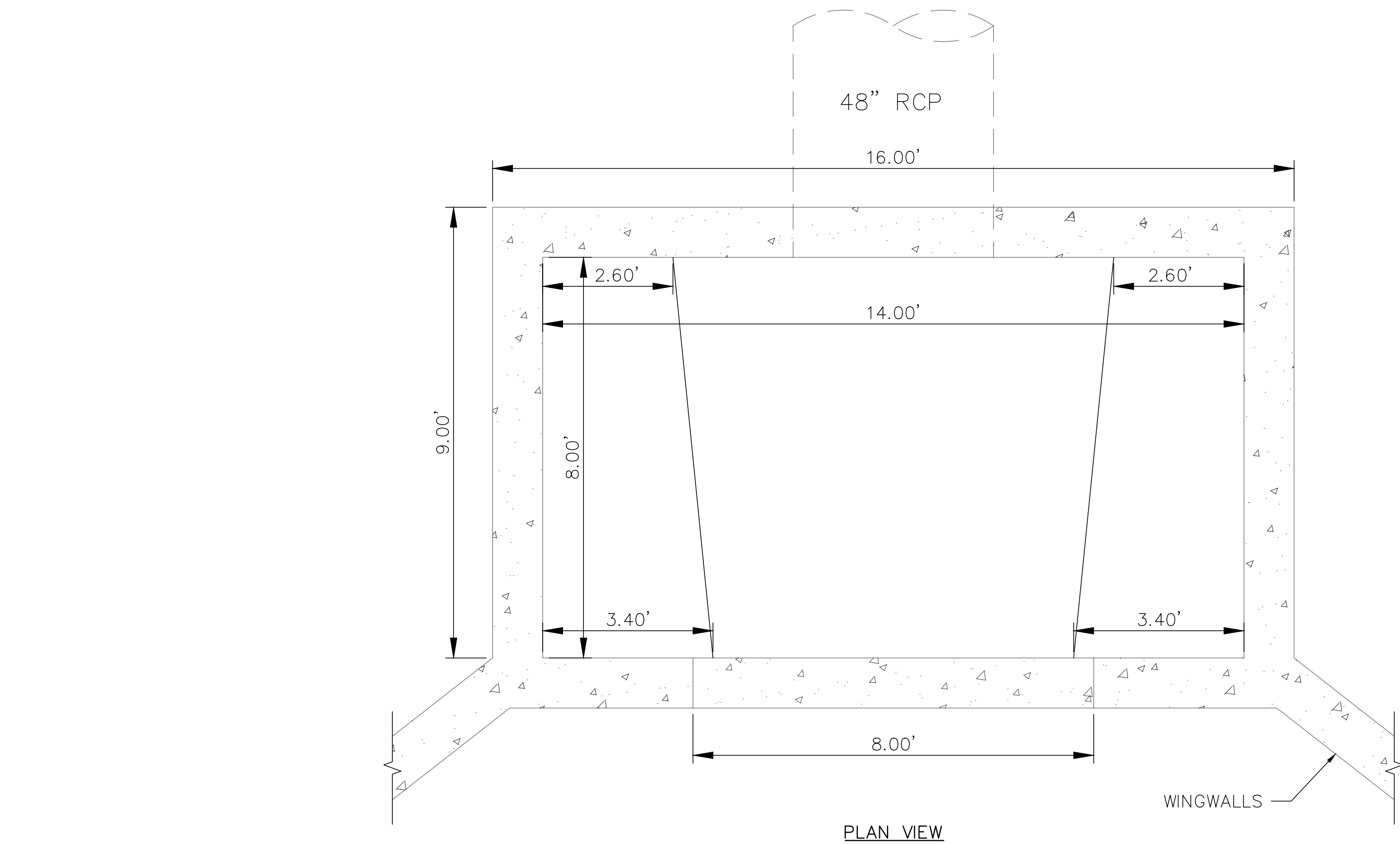
LEGEND

- = MITERED END SECTION
- = CATCH BASIN
- = STORM SEWER MANHOLE
- RCP = REINFORCED CONCRETE PIPE
- ERCP = ELLIPTICAL REINFORCED CONCRETE PIPE
- CMP = CORRUGATED METAL PIPE
- HDPE = HIGH-DENSITY POLYETHYLENE PIPE
- CONC = CONCRETE
- ASPH = ASPHALT
- INV = INVERT
- ELEV = ELEVATION
- TOE- = TOE OF SLOPE
- TOB- = TOP OF BANK
- STORM- = STORM PIPE
- O.R. = OFFICIAL RECORD BOOK
- +0.00' = SPOT ELEVATION (HARD SURFACE)
- +0.0' = SPOT ELEVATION (SOFT SURFACE)
- = BORING LOCATION

NOTES:
1. AERIAL FLIGHT YEAR 2019.
2. SURVEY INFORMATION PROVIDED BY E.F. GAINES SURVEYING SERVICES, INC.

IONA DRAINAGE DISTRICT CANAL H-7 DRAINAGE PREPARED FOR DIVISION OF NATURAL RESOURCES		EXISTING CONDITIONS AND SURVEY NOTES		KHA PROJECT 148220020 DATE 12/21/2021 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY GWA CHECKED BY KFC		Kimley»Horn © 2021 KIMLEY-HORN AND ASSOCIATES, INC. 1412 JACKSON STREET, SUITE #2, FORT MYERS, FL 33901 PHONE: 239-271-2650 FAX: 841-379-4352 WWW.KIMLEY-HORN.COM REGISTRY NO. 696		No.		REVISIONS		DATE		BY	
SHEET NUMBER C-103															

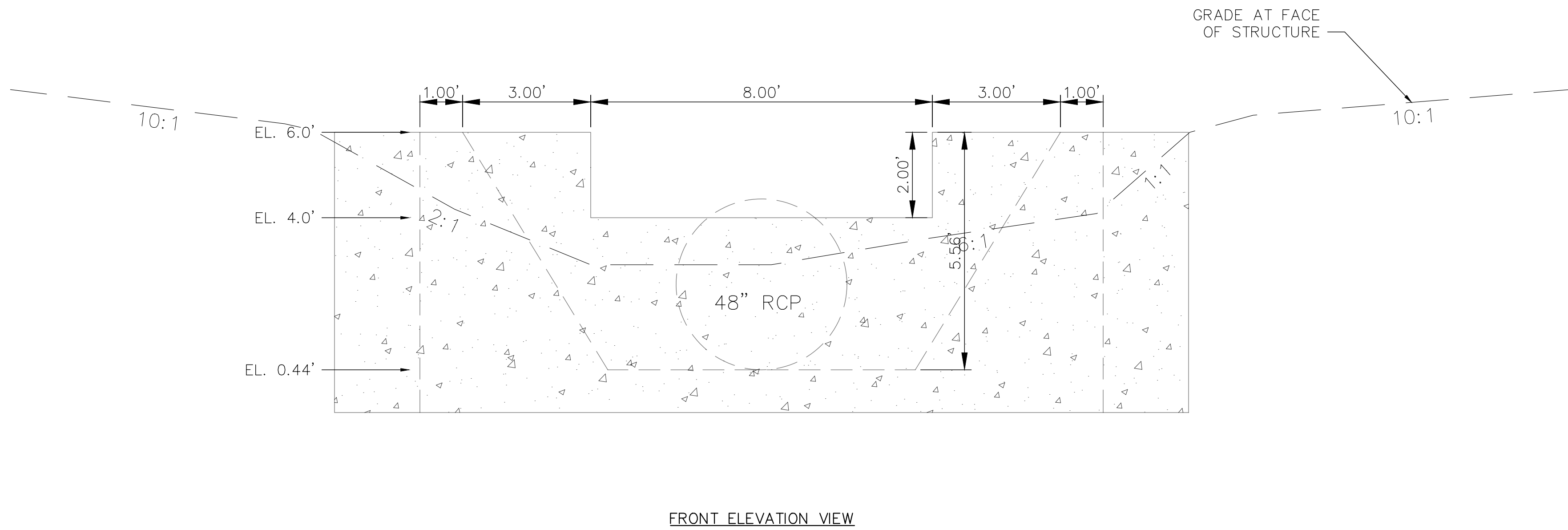
Plotted By: Ashley, Gregory, Sheet: S-104, Layout: C-104, Ex: Structure Detail, December 21, 2021, 09:17:15pm, K:\VTM_Civil\148220020 - Iona Drainage\CAD\PlanSheets\C-103 Existing Conditions.dwg
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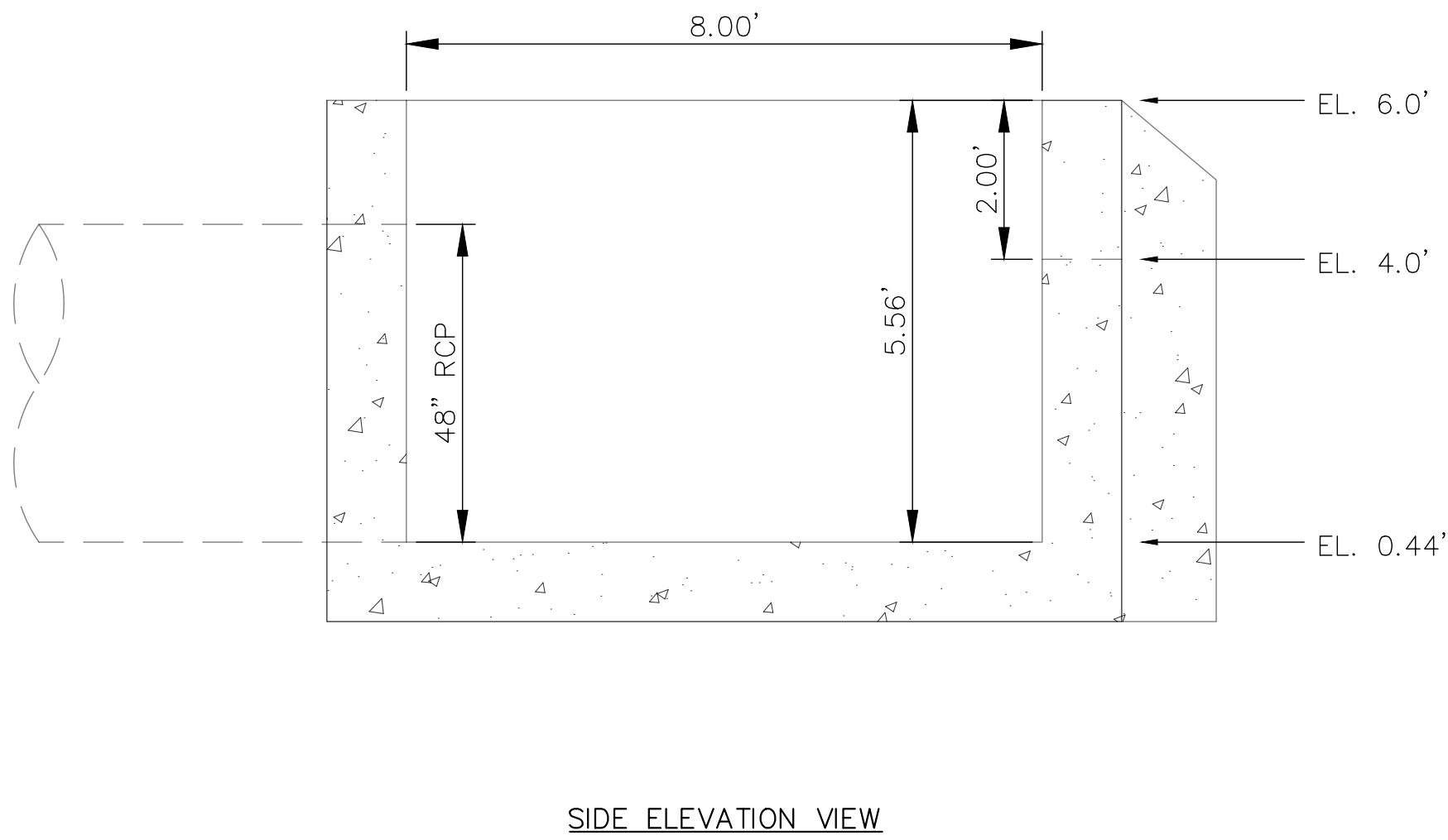
EXISTING STRUCTURE
PHOTO 1 OF 2



EXISTING STRUCTURE
PHOTO 2 OF 2



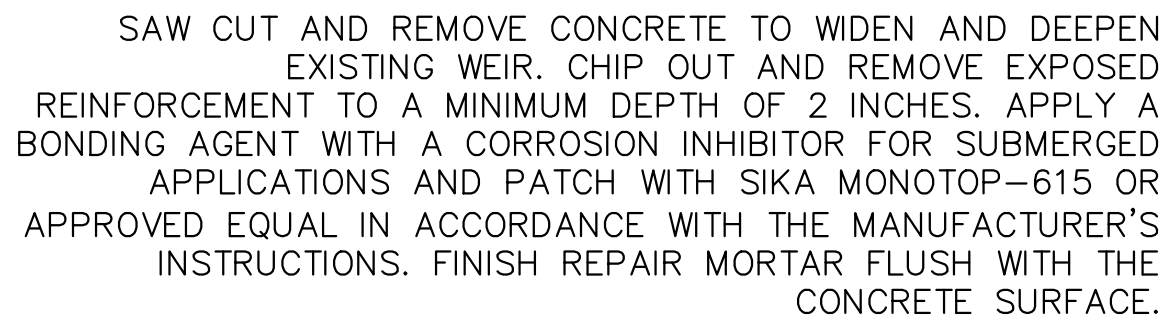
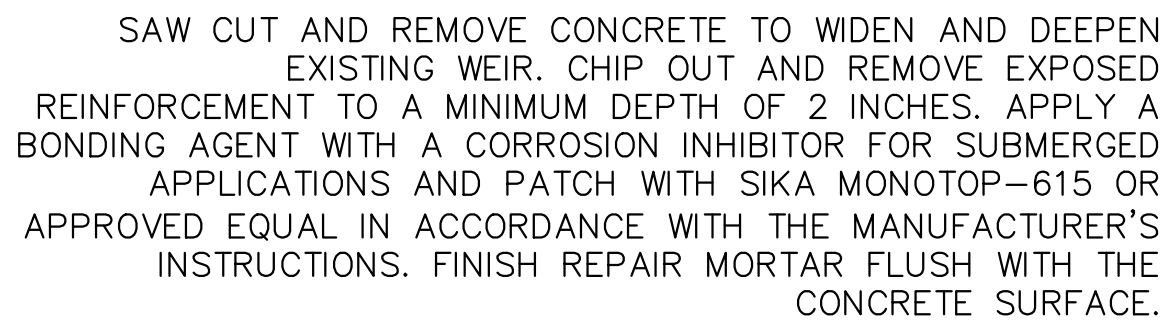
EXISTING STRUCTURE DETAIL
1" = 2'




- NOTES:
1. STRUCTURE ELEVATIONS ARE TAKEN FROM EXISTING CONDITIONS SURVEY.

IONA DRAINAGE DISTRICT CANAL H-7 DRAINAGE PREPARED FOR DIVISION OF NATURAL RESOURCES LEE COUNTY FLORIDA		EXISTING STRUCTURE DETAIL		KHA PROJECT 148220020		Kimley»Horn © 2021 KIMLEY-HORN AND ASSOCIATES, INC. 1412 JACKSON STREET, SUITE #2, FORT MYERS, FL 33901 PHONE: 239-271-2650 FAX: 841-379-4352 WWW.KIMLEY-HORN.COM REGISTRY NO. 696			
				DATE 12/21/2021					
				SCALE AS SHOWN					
				DESIGNED BY KHA					
				DRAWN BY GWA					
				CHECKED BY KFC					

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LEGEND

 DEMOLITION

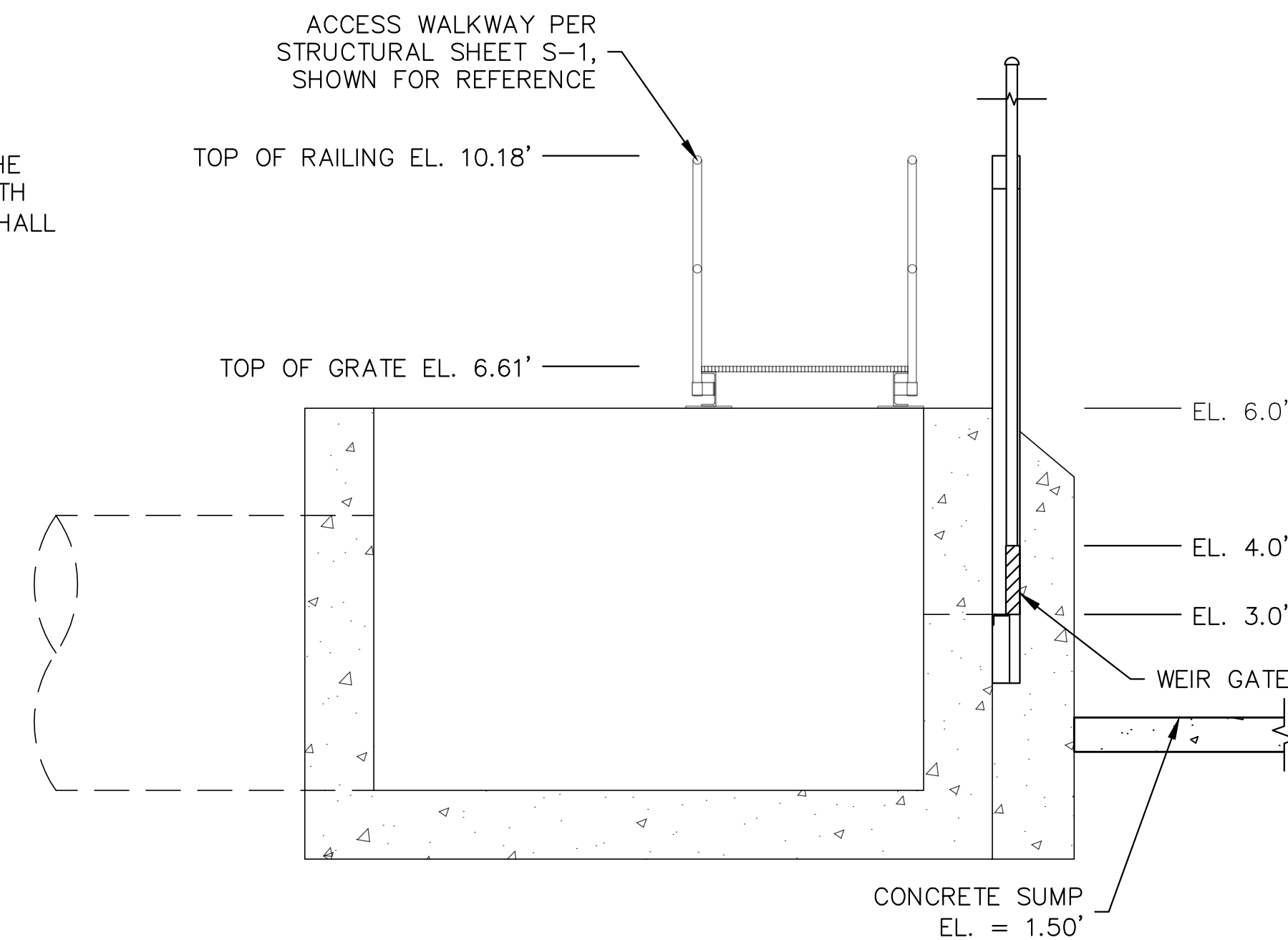
[illegible]

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1. REFER TO PLAN SHEETS FOR ADDITIONAL INFORMATION RELATIVE TO RUBBLE RIPRAP INSTALLATION LIMITS.
2. TAPER PLACEMENT OF ROCK GOING UP BANKS.
3. ENSURE NO TEARING OF FABRIC WHEN PLACING ROCK.
4. ROCKS MUST INTERLOCK WITH SMALL AND BIG ROCKS. SEE FOOT SPECIFICATION SECTION 530.
5. GEOTEXTILE FABRIC SHALL BE MARAFI FW404 OR APPROVED EQUAL.
6. BEDDING STONE SHALL MEET THE GRADATION SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE PER FOOT STANDARD SPEC. SECTION 901.
7. RIPRAP SHALL BE CLEAN FILL, FREE OF DEBRIS AND TOXIC OR DELETERIOUS SUBSTANCES.

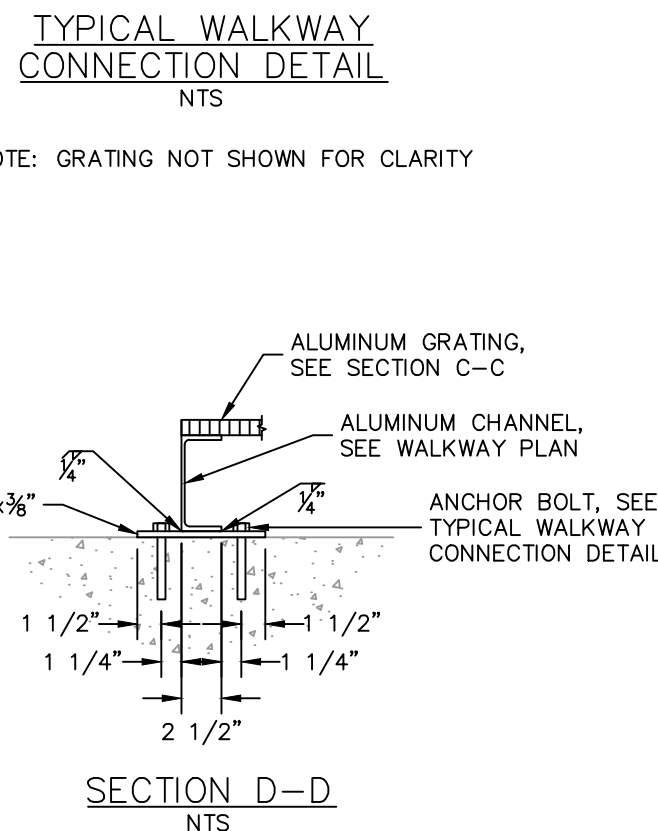
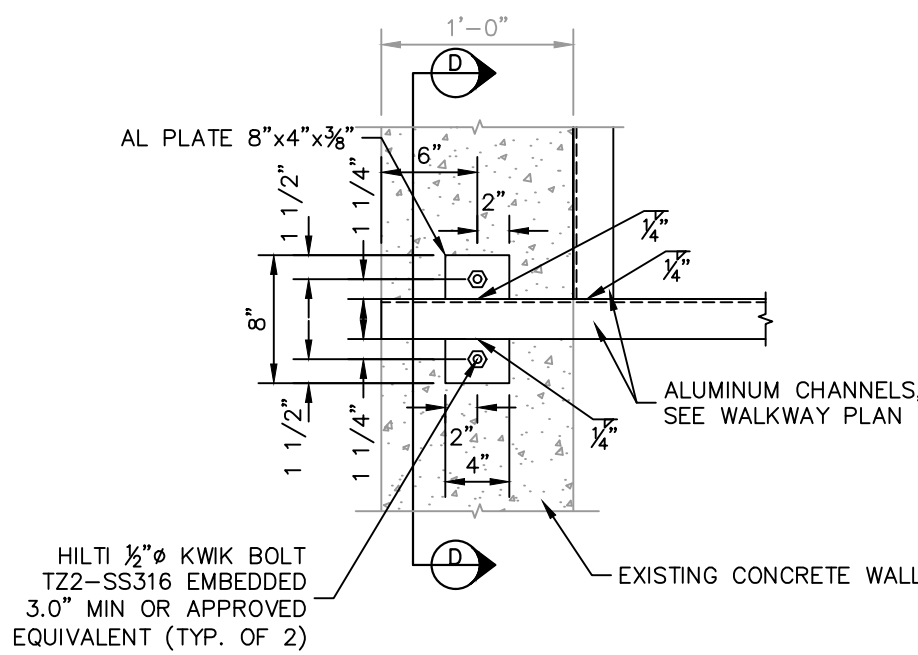
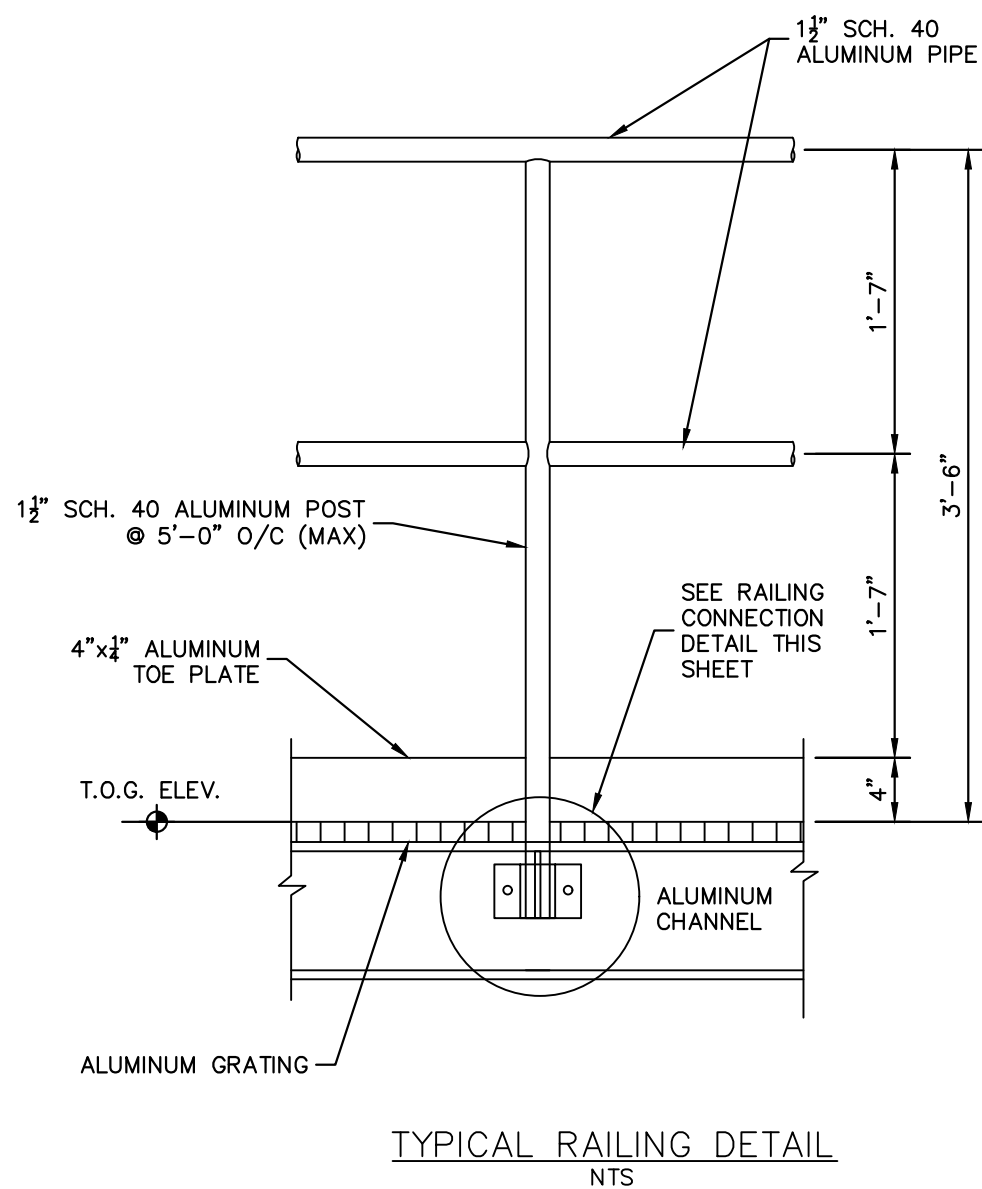
SIDE ELEVATION



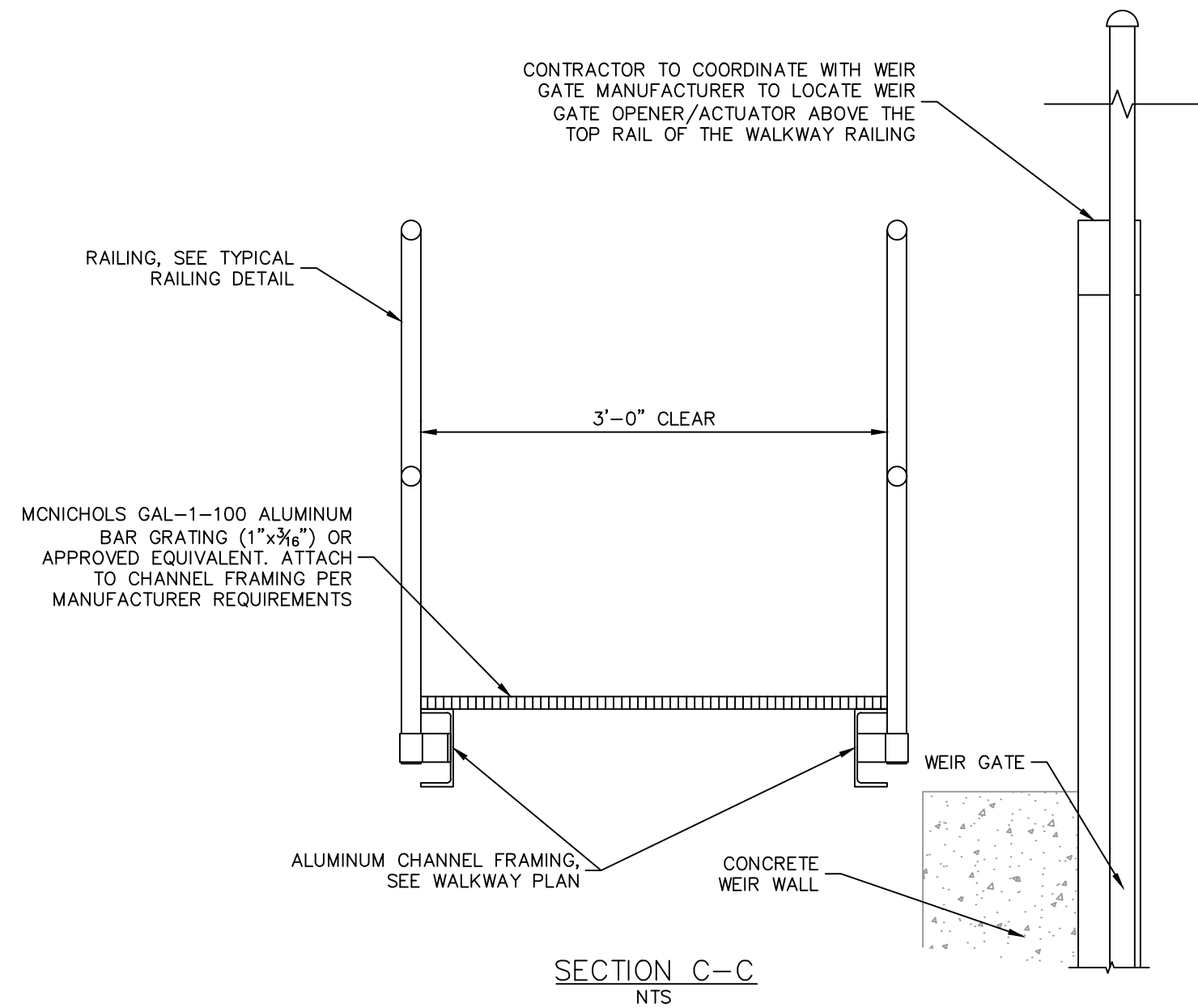
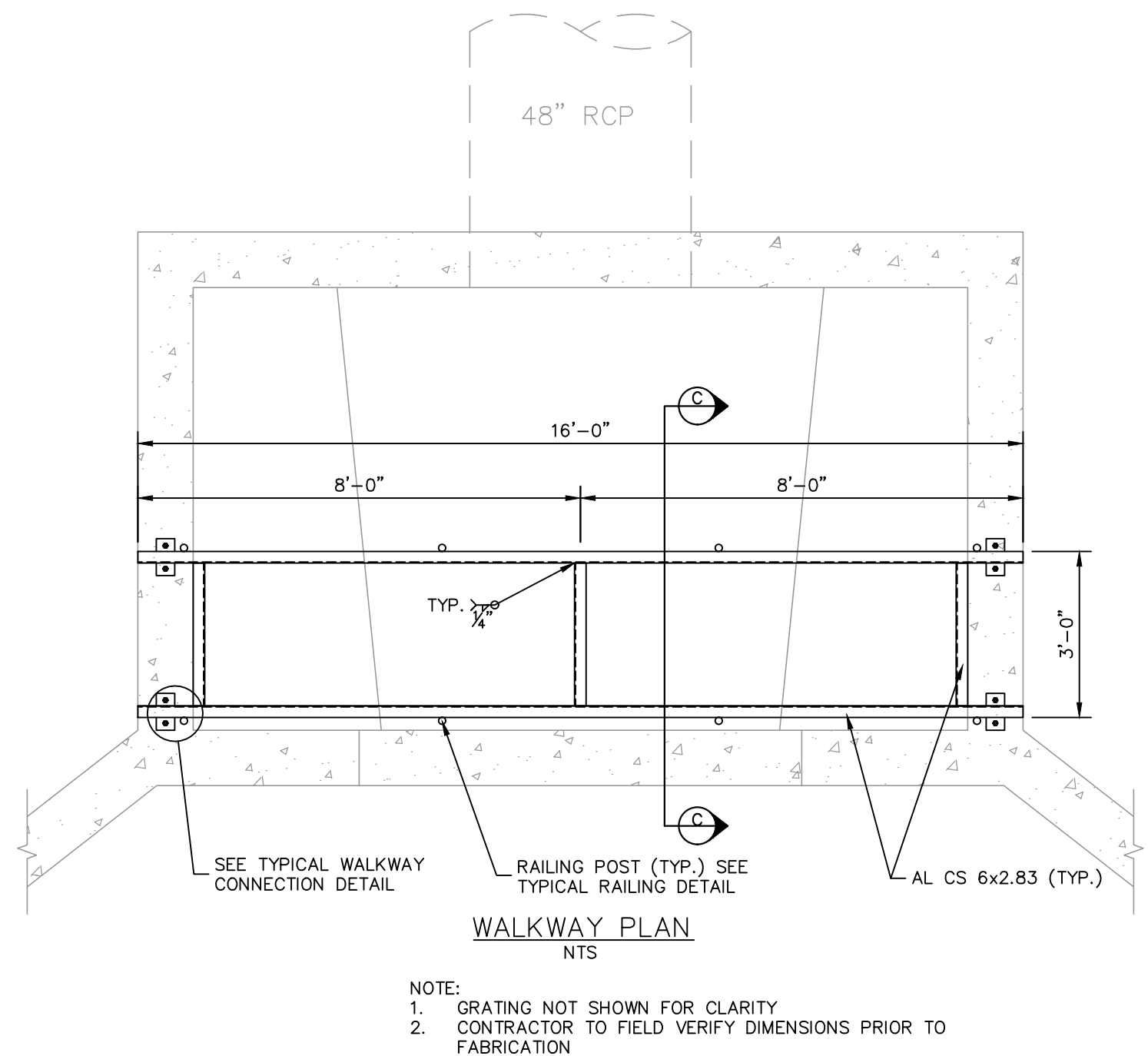
1. GOLDEN HARVEST SELF-CONTAINED GH-60 WEIR GATE WITH CRANK (OR APPROVED EQUAL) MAY BE USED AS MOVEABLE WEIR STRUCTURE.
2. EXTERNAL MOUNTED PLASTIFAB STOPLOGS (OR APPROVED EQUAL) MAY BE USED AS MOVEABLE WEIR STRUCTURE.

IONA DRAINAGE DISTRICT CANAL H-7 DRAINAGE PREPARED FOR DIVISION OF NATURAL RESOURCES LEE COUNTY FLORIDA	SHEET NUMBER C-301	PROPOSED STRUCTURE DETAIL	KHA PROJECT 148220020 DATE 12/21/2021 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY GMA CHECKED BY KRC	LICENSED PROFESSIONAL		 <p>© 2021 KIMLEY-HORN AND ASSOCIATES, INC. 1412 JACKSON STREET, SUITE #2, FORT MYERS, FL 33901 PHONE: 239-271-2650 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM REGISTRY NO. 6986</p>	No.	REVISIONS	DATE	BY
				KELLIE CLARK, P.E.						
				FLORIDA LICENSE NUMBER 77842						
				DATE:						

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- (A) STRUCTURAL ALUMINUM SHALL BE DOMESTIC ALLOY 6061-T6.
- (B) ALUMINUM WORK SHALL BE IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S SPECIFICATIONS FOR ALUMINUM STRUCTURES, LATEST EDITION.
- (C) FASTENERS: UNLESS NOTED OTHERWISE, ALL FASTENERS SHALL BE 316 STAINLESS STEEL MEETING THE REQUIREMENTS OF ASTM F593 OR ASTM A193 FOR BOLTS AND ASTM F594 OR ASTM F594 FOR ALL OTHERS, ALL CONNECTIONS WITH DISSIMILAR MATERIALS (E.G. 316 STAINLESS STEEL TO ALUMINUM) SHALL RECEIVE NEOPRENE OR VINYL WASHER. WASHER SHALL BE LARGER THAN BOLT HEAD.
- (D) ALL WELDING SHALL CONFORM WITH AWS D1.2, LATEST STRUCTURAL WELDING CODE - ALUMINUM.
- (E) ALL FILL WELDS SHALL HAVE A MINIMUM SIZE OF 1/4" WITH 5356 FILL ALLOY UNLESS OTHERWISE NOTED.
- (F) PROVIDE SHOP DRAWINGS FOR ALUMINUM FRAMING PRIOR TO FABRICATION AND INSTALLATION.
- (G) WHERE THE CONTACT OF DISSIMILAR MATERIALS MAY CAUSE ELECTROLYSIS OR WHERE ALUMINUM WILL COME IN CONTACT WITH CONCRETE, MORTAR, OR PLASTER, THE CONTACT SURFACES SHALL BE PROTECTED BY A COATING WITH ONE HEAVY COAT OF BITUMINOUS PAINT.



SHEET NUMBER		KIMLEY-HORN		© 2021 KIMLEY-HORN AND ASSOCIATES, INC. 1412 JACKSON STREET, SUITE #2, FORT MYERS, FL 33901 TEL: 813-635-1100 FAX: 813-635-1105 WWW.KIMLEY-HORN.COM REGISTRY NO. 696	
IONA DRAINAGE DISTRICT		KHA PROJECT		LICENSED PROFESSIONAL	
CANAL H-7 DRAINAGE		148220020			
PREPARED FOR		DATE		SETH E. SCHMID, P.E.	
DIVISION OF NATURAL		12/21/2021			
RESOURCES		SCALE AS SHOWN		FLORIDA LICENSE NUMBER	
LEE COUNTY		DRAWN BY KHA		54640	
FLORIDA		CHECKED BY GWA		DATE:	