

# CONSTRUCTION PLANS FOR MULLOCH CREEK WEIR MODIFICATIONS

JUNE 2018  
LOCATED IN SECTIONS 46, TOWNSHIP 25S, RANGE 17E  
LEE COUNTY, FLORIDA

**UTILITY COMPANIES:**

**POTABLE WATER AND SANITARY SEWER**  
LEE COUNTY UTILITIES  
1500 MONROE STREET  
FORT MYERS, FLORIDA 33901

**ELECTRIC**  
FLORIDA POWER AND LIGHT (FPL)  
10650 PALM BEACH BLVD.  
FORT MYERS, FLORIDA 33905

**GAS**  
TECO PEOPLES GAS  
702 NORTH FRANKLIN STREET  
P.O. BOX 2562  
TAMPA, FL 33601

**TELEPHONE**  
EMBARC  
2820 CARGO STREET  
FORT MYERS, FL 33916

**CABLE TELEVISION**  
COMCAST  
26102 BONITA GRANDE  
BONITA SPRINGS, FL 34135

**SOLID WASTE**  
WASTE MANAGEMENT  
25550 HARBOR VIEW RD, SUITE 2  
PORT CHARLOTTE, FLORIDA 33980

**LEE COUNTY STAFF**

ROGER DESJARLAIS  
COUNTY MANAGER

ROLAND OTTOLINI  
NATURAL RESOURCES DIRECTOR

**LEE COUNTY COMMISSIONERS**

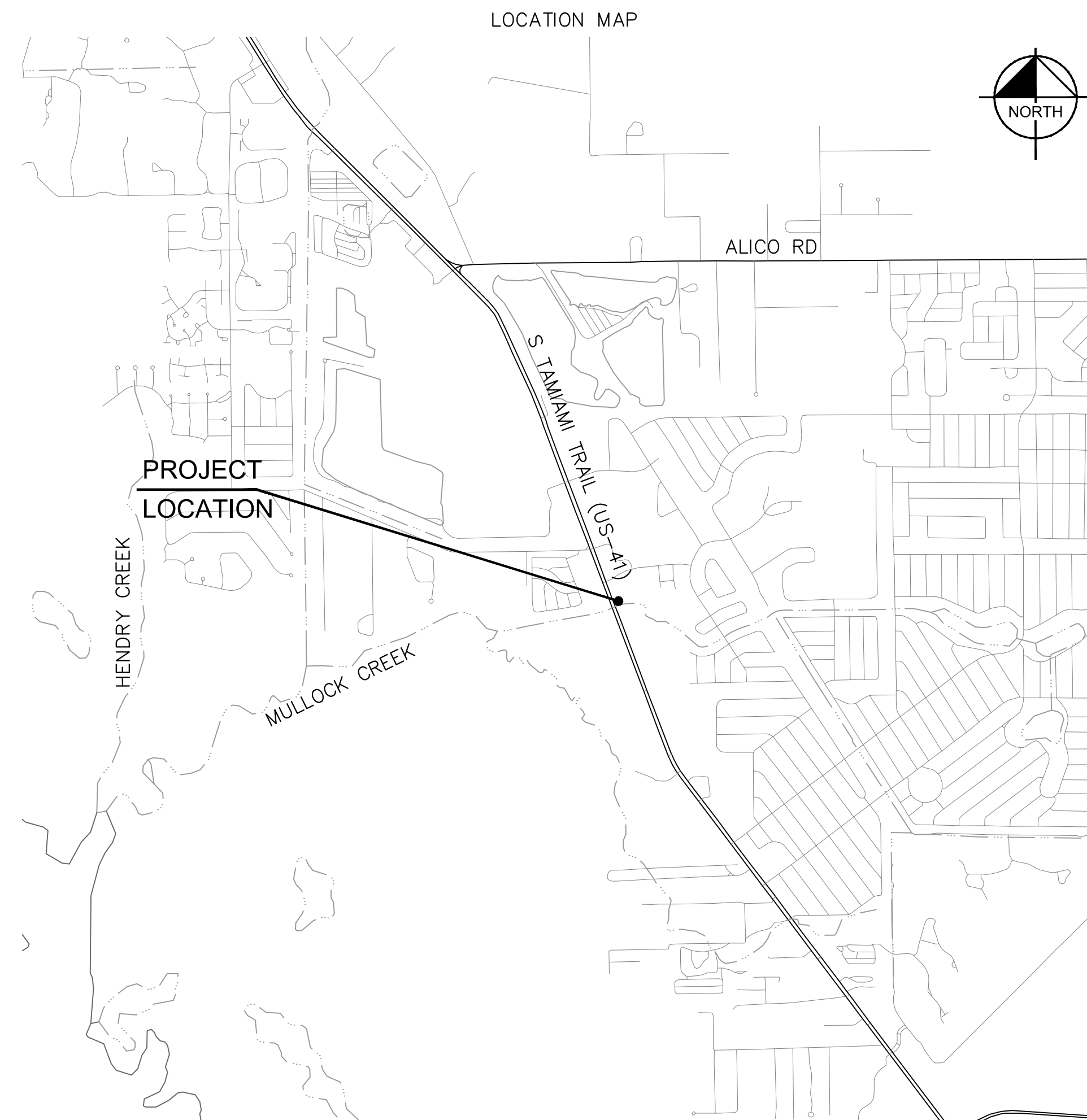
DISTRICT 1 JOHN MANNING

DISTRICT 2 CECIL PENDERGRASS

DISTRICT 3 LARRY KIKER

DISTRICT 4 BRIAN HAMMAN

DISTRICT 5 FRANK MANN




**SHEET LIST TABLE**

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Plotted By: Masters, Amber. Sheet Set: Mulloch Creek Weir Mod. Layout: Layout1. July 17, 2018 06:58:14pm. K:\FTM\_Civil\148220007 - Mulloch Creek Weir Modification\CAD\PlanSheets\C-1 TITLE SHEET.dwg  
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CALL 2 WORKING DAYS  
BEFORE YOU DIG



IT'S THE LAW!  
DIAL 811

Know what's below.  
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PREPARED BY  
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AMY N. WICKS  
FLORIDA P.E. LICENSE NUMBER # 68339  
CA # 00000696

DATE



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SHEET NUMBER  
**C-3**

**MULLOCH CREEK WEIR  
 MODIFICATIONS  
 PREPARED FOR  
 LEE COUNTY**  
 LEE COUNTY FLORIDA

**AERIAL LOCATION  
 MAP**

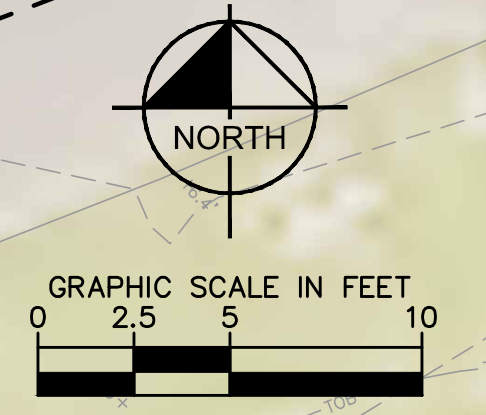
KHA PROJECT  
 148220007  
 DATE  
 JUNE 2018  
 SCALE AS SHOWN  
 DESIGNED BY KHA  
 DRAWN BY MRK  
 CHECKED BY ANW  
 DATE

LICENSED PROFESSIONAL  
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 FLORIDA LICENSE NUMBER  
 68339

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**NOTES**

- ELEVATIONS SHOWN HERE ARE RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- SURVEY INFORMATION FROM BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY E.F. GAINES SURVEYING SERVICES, INC. DATED 02/28/18.
- AERIAL FLIGHT YEAR 2017.

**LEGEND**

- |                            |                                   |
|----------------------------|-----------------------------------|
| △ = CONTROL POINT          | R/W = RIGHT-OF-WAY                |
| (D) = DEED                 | (P) = PLAT                        |
| ○ = FOUND IRON ROD         | (M) = MEASURED                    |
| △ = FOUND NAIL & DISK      | CONC = CONCRETE                   |
| □ = ELECTRIC MISCELLANEOUS | ASPH = ASPHALT                    |
| ▣ = IN-GROUND ELECTRIC BOX | ELEV = ELEVATION                  |
| ⊞ = TELEPHONE RISER        | -OHW- = OVERHEAD WIRES            |
| ⊞ = WOOD UTILITY POLE      | -TOE- = TOE OF SLOPE              |
| → = GUY ANCHOR             | -TOB- = TOP OF BANK               |
| ☆ = LIGHT POLE             | ▣ = CONCRETE WALK/PAD             |
| ⊞ = TELEPHONE MANHOLE      | ▣ = ASPHALT WALK/PAD              |
| ⊞ = WATER VALVE            | ○ = SPOT ELEVATION (HARD SURFACE) |
| ⊞ = BACK FLOW ASSEMBLY     | ○ = SPOT ELEVATION (SOFT SURFACE) |
| ⊞ = IRRIGATION VALVE       | * = PALM TREE                     |
| ⊞ = MAILBOX                |                                   |

NOTE: TREE SIZES INDICATED ARE TRUNK DIAMETERS MEASURED AT CHEST HEIGHT. SYMBOL SIZE DOES NOT REFLECT ACTUAL CANOPY.

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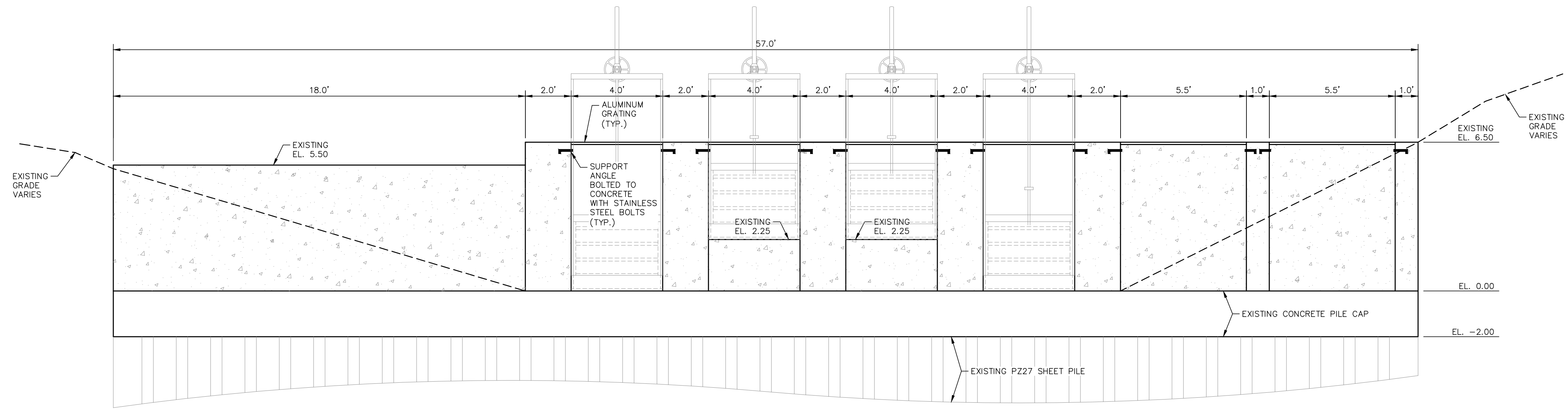
LICENSED PROFESSIONAL	AMY N. WICKS
KHA PROJECT	148220007
DATE	JUNE 2018
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	MRK
CHECKED BY	ANW
DATE	

**EXISTING CONDITIONS**

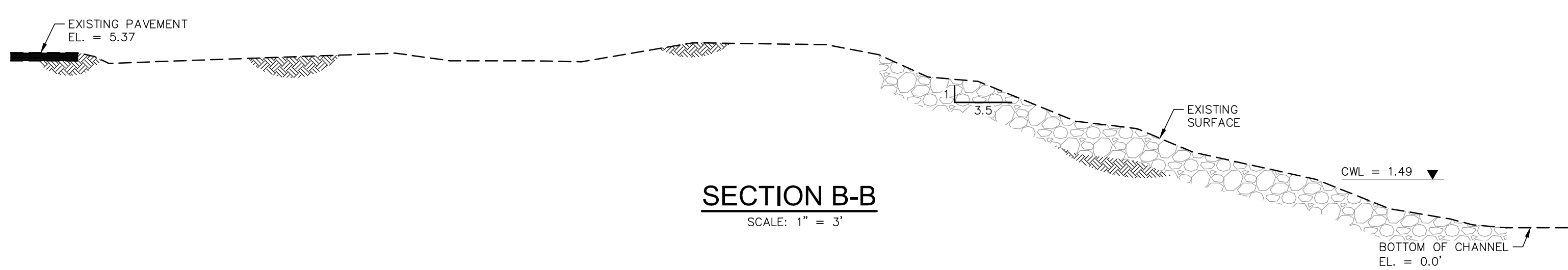
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SHEET NUMBER  
**C-4**

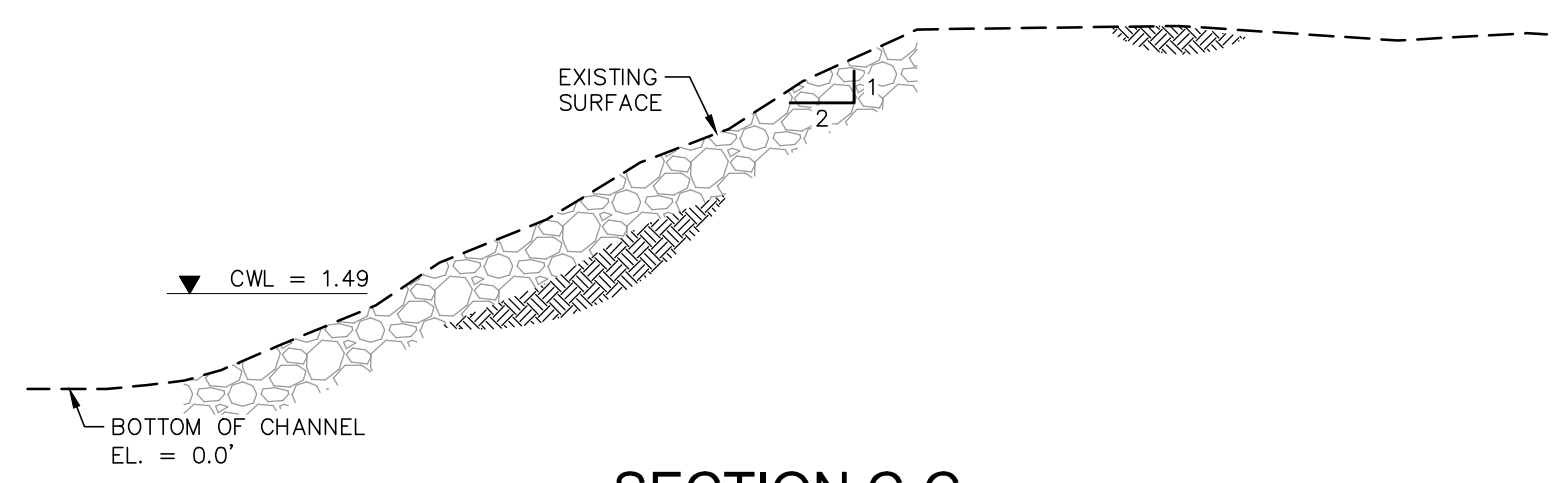
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**SECTION A-A**  
SCALE: 1" = 3'



**SECTION B-B**  
SCALE: 1" = 3'



**SECTION C-C**  
SCALE: 1" = 3'

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 148220007  
 DATE  
 JUNE 2018  
 SCALE AS SHOWN  
 DESIGNED BY KHA  
 DRAWN BY MRK  
 CHECKED BY ANW DATE:

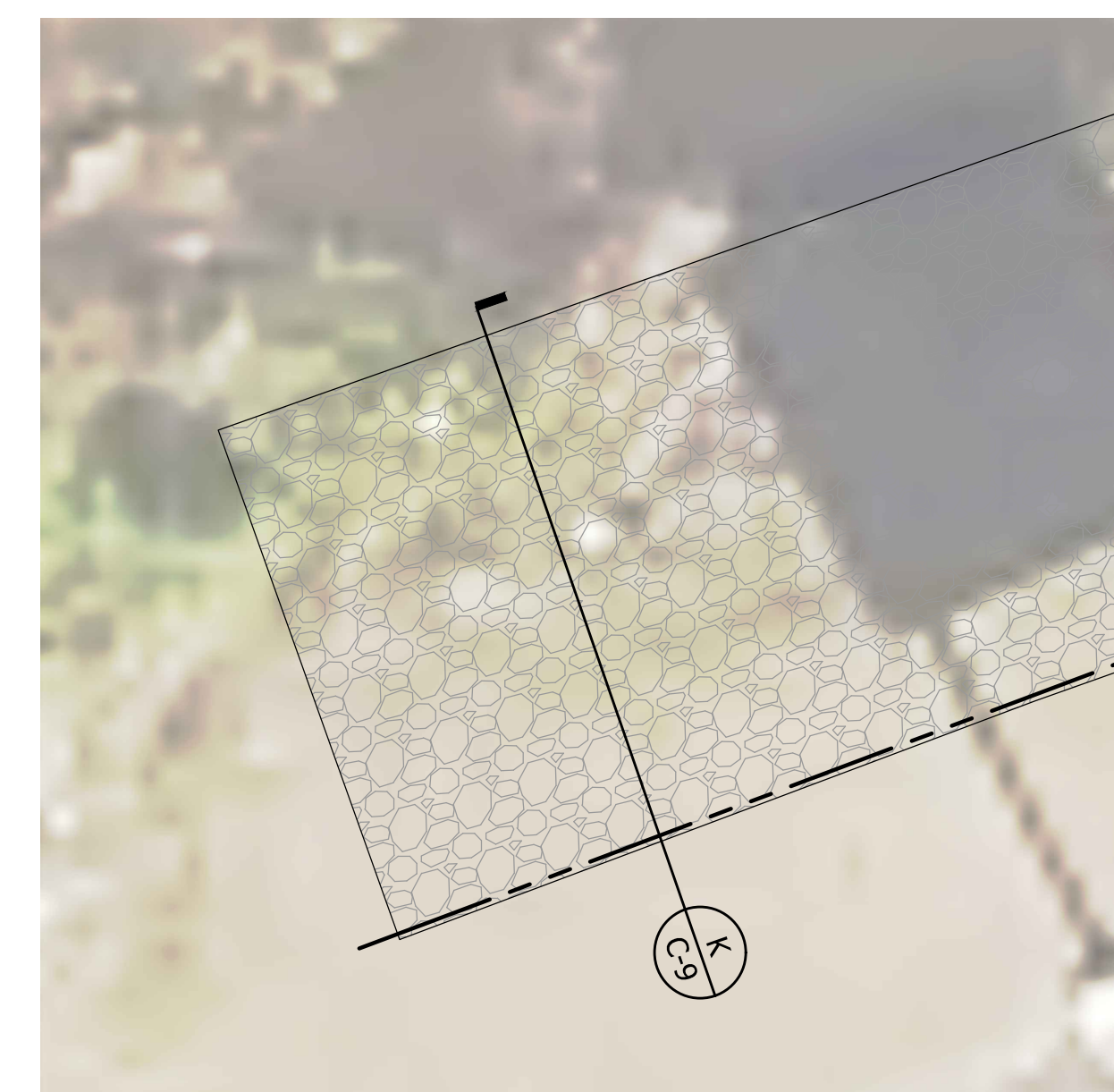
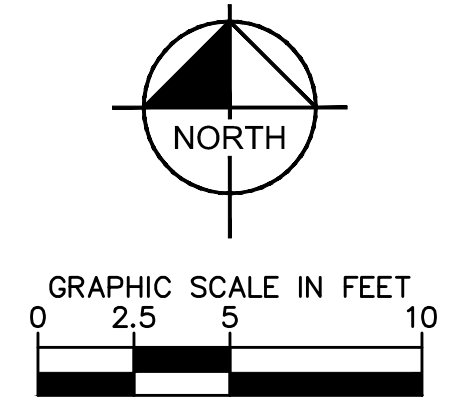
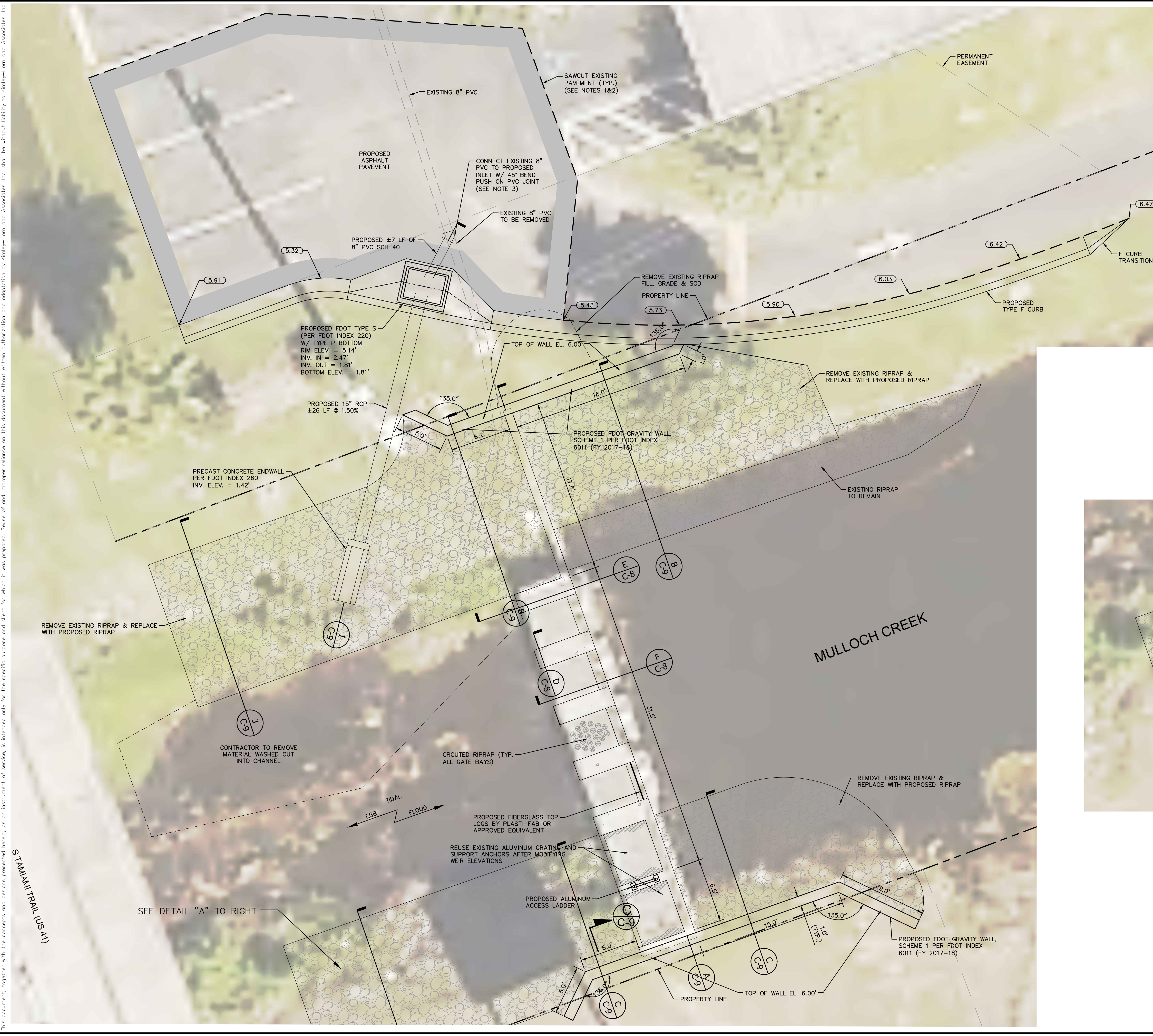
**EXISTING CROSS SECTIONS**

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 LEE COUNTY FLORIDA

SHEET NUMBER  
**C-5**



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- NOTES:**
1. SAWCUT EDGE OF PAVEMENT 2 INCHES WHERE F CURB IS PROPOSED.
  2. EDGE OF PROPOSED ASPHALT PAVEMENT MUST BE RE-CUT IF DAMAGED.
  3. GLUE PVC FITTING PER MANUFACTURER SPECIFICATIONS TO ACHIEVE A WATER TIGHT JOINT.

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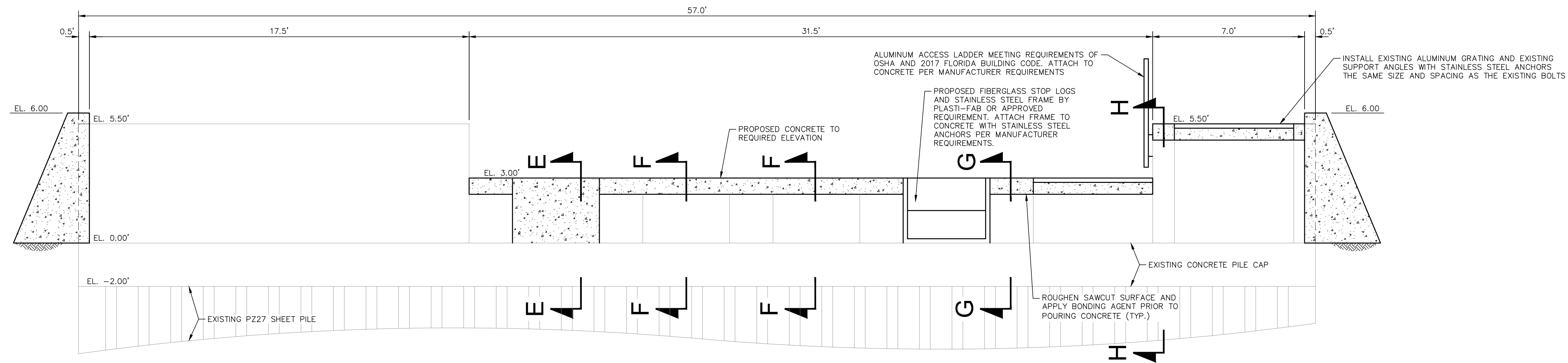
KHA PROJECT  
 148220007  
 DATE  
 JUNE 2018  
 SCALE AS SHOWN  
 DESIGNED BY KHA  
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**SITE PLAN**

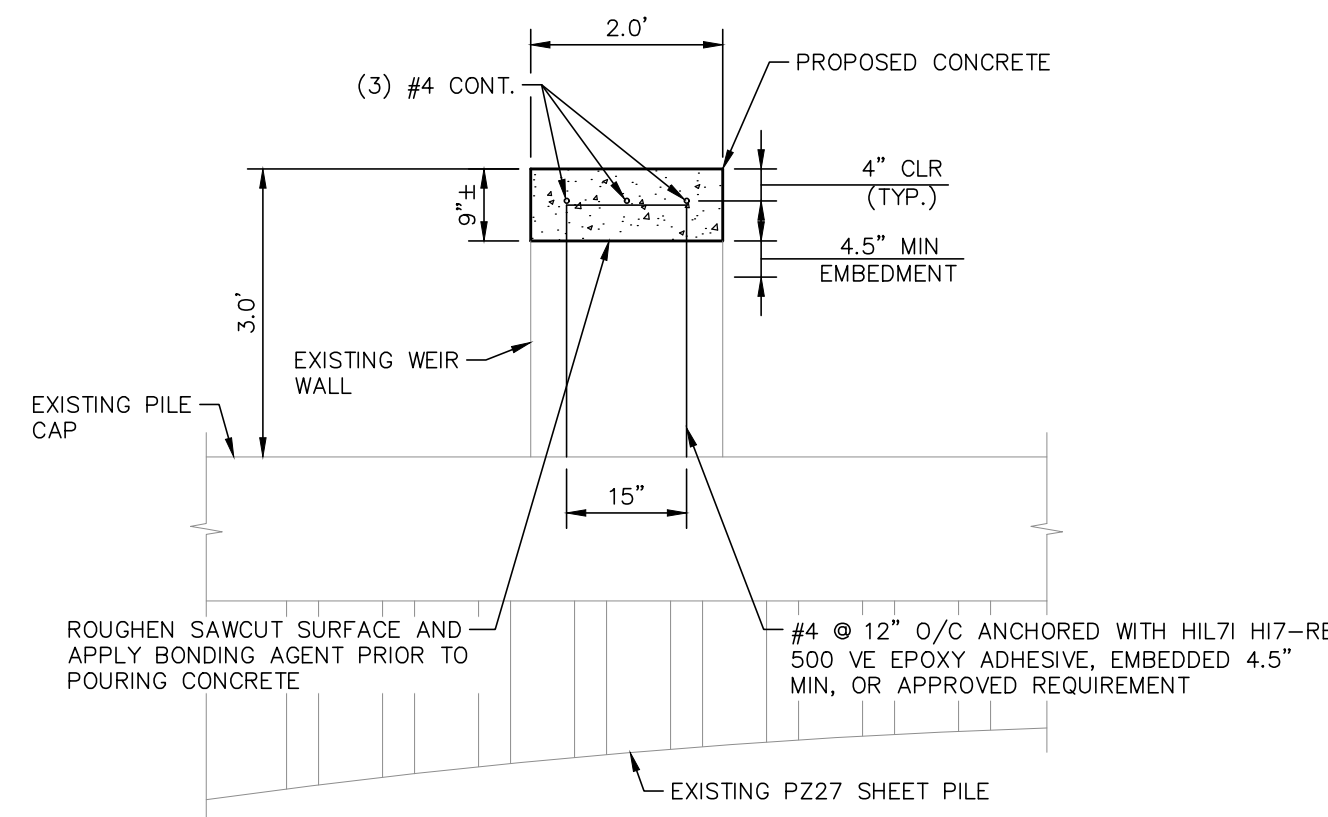
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 MODIFICATIONS  
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 LEE COUNTY**

FLORIDA  
 SHEET NUMBER  
**C-7**

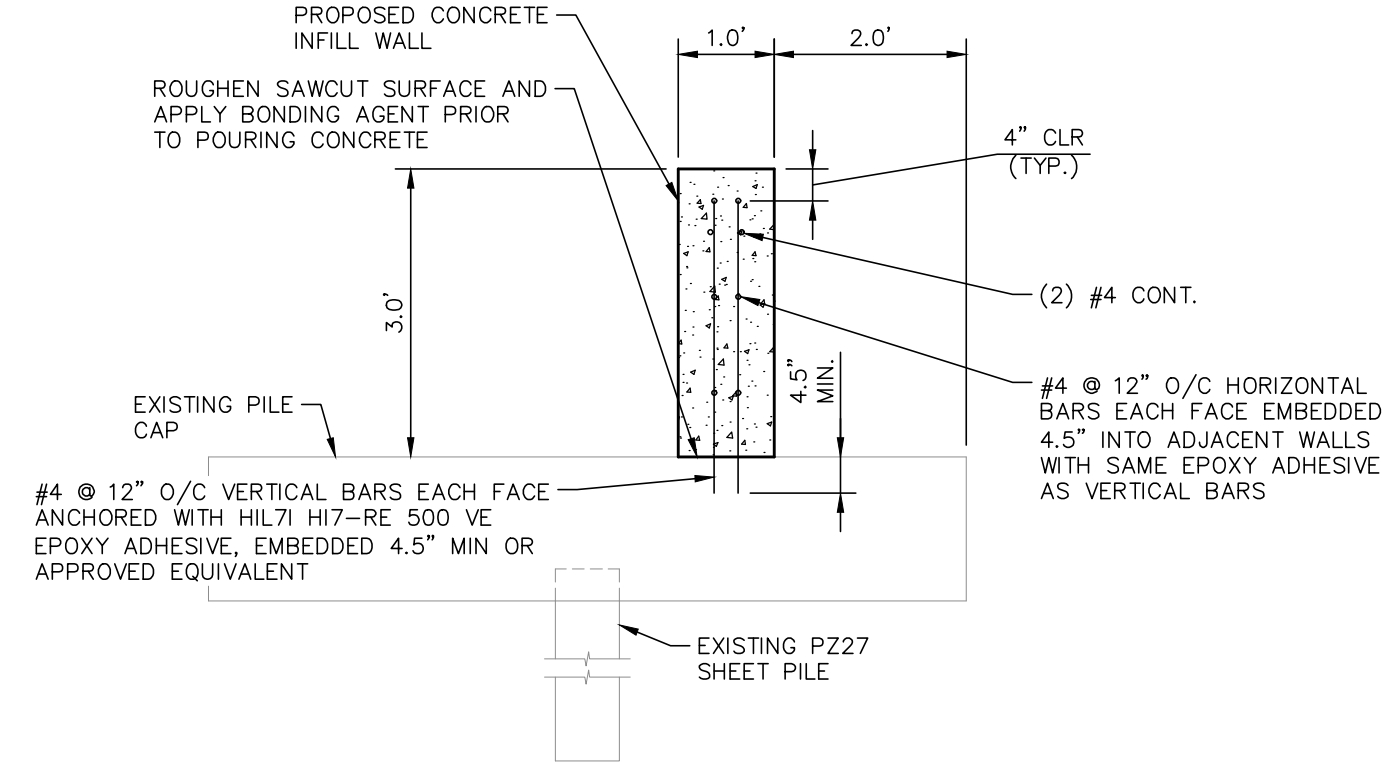
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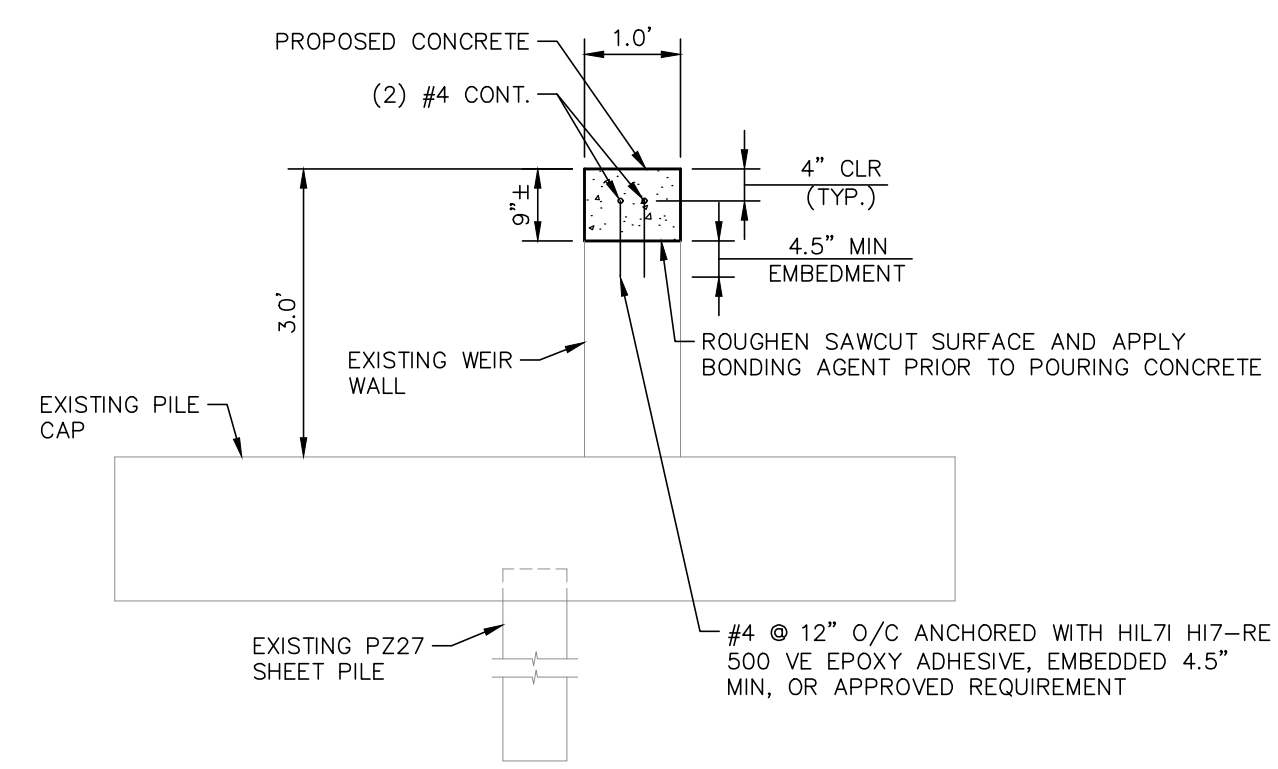
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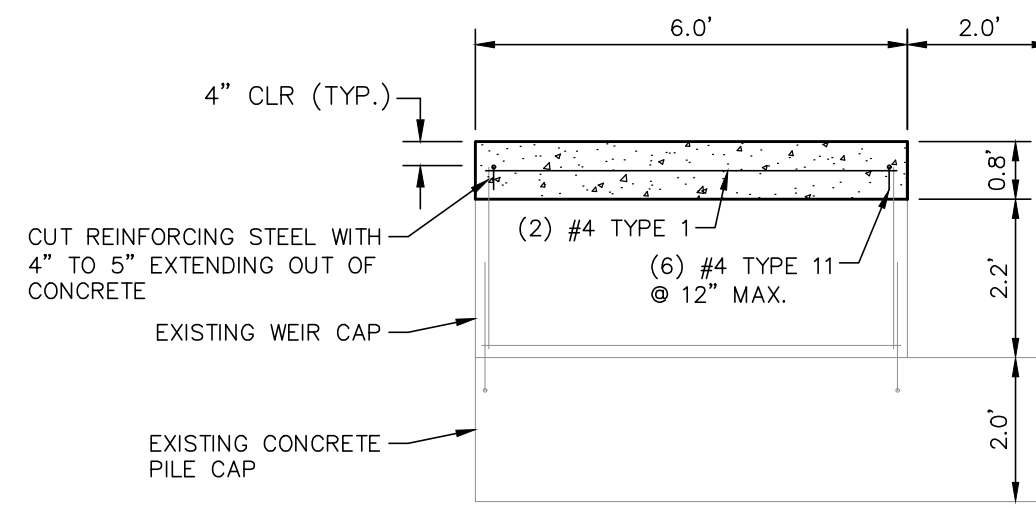
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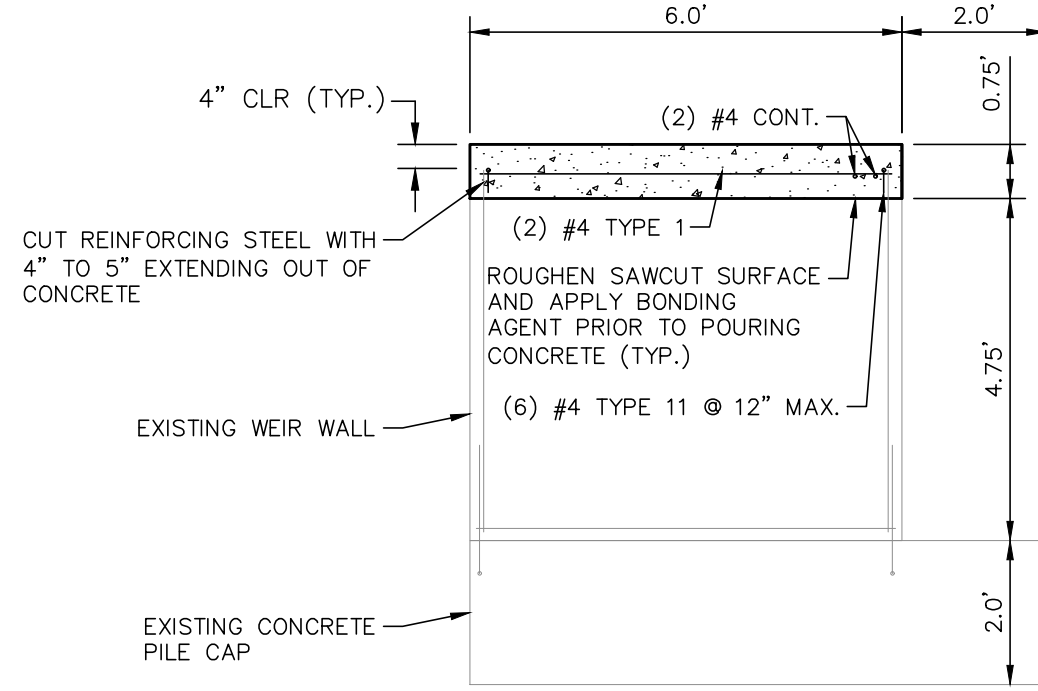
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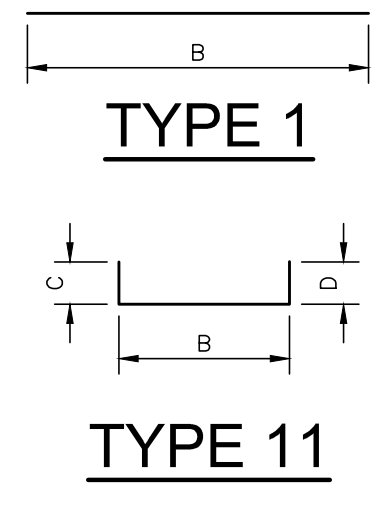
**SECTION F-F**  
N.T.S.



**SECTION G-G**  
N.T.S.



**SECTION H-H**  
N.T.S.



NOTE:  
 FDOT STANDARD INDEX NO. 21300  
 FOR BAR BENDING DIAGRAMS

TYPE	B	C	D
1	5 - 4		
11	1 - 4	0 - 4	0 - 4

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 DATE  
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 SCALE  
 AS SHOWN  
 DESIGNED BY  
 KHA  
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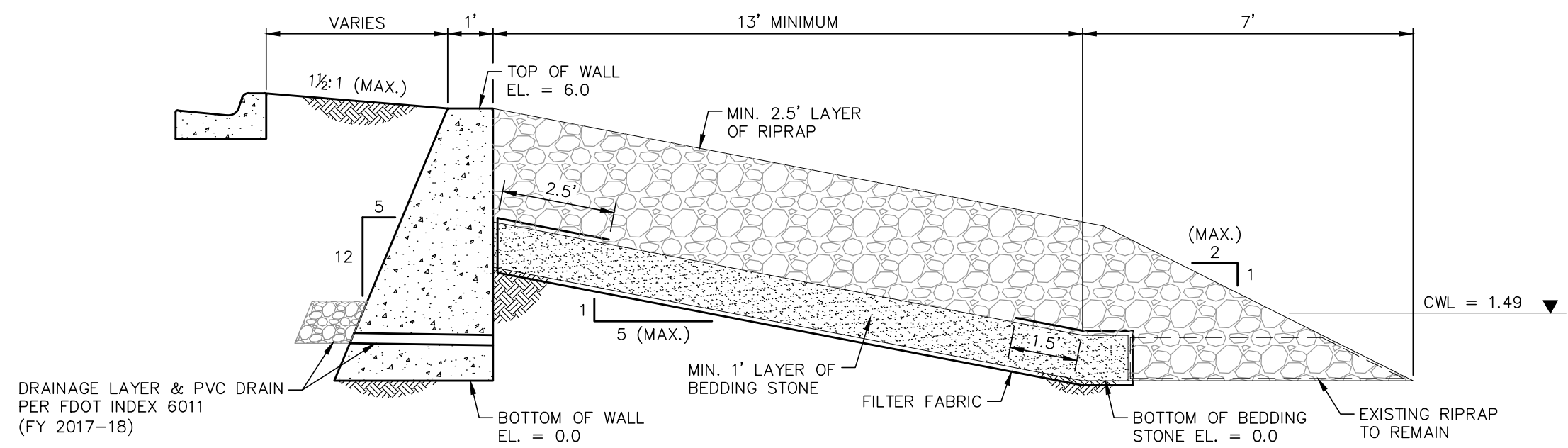
**MULLOCH CREEK WEIR  
 MODIFICATIONS  
 PREPARED FOR  
 LEE COUNTY**

**PROPOSED  
 CROSS SECTIONS**

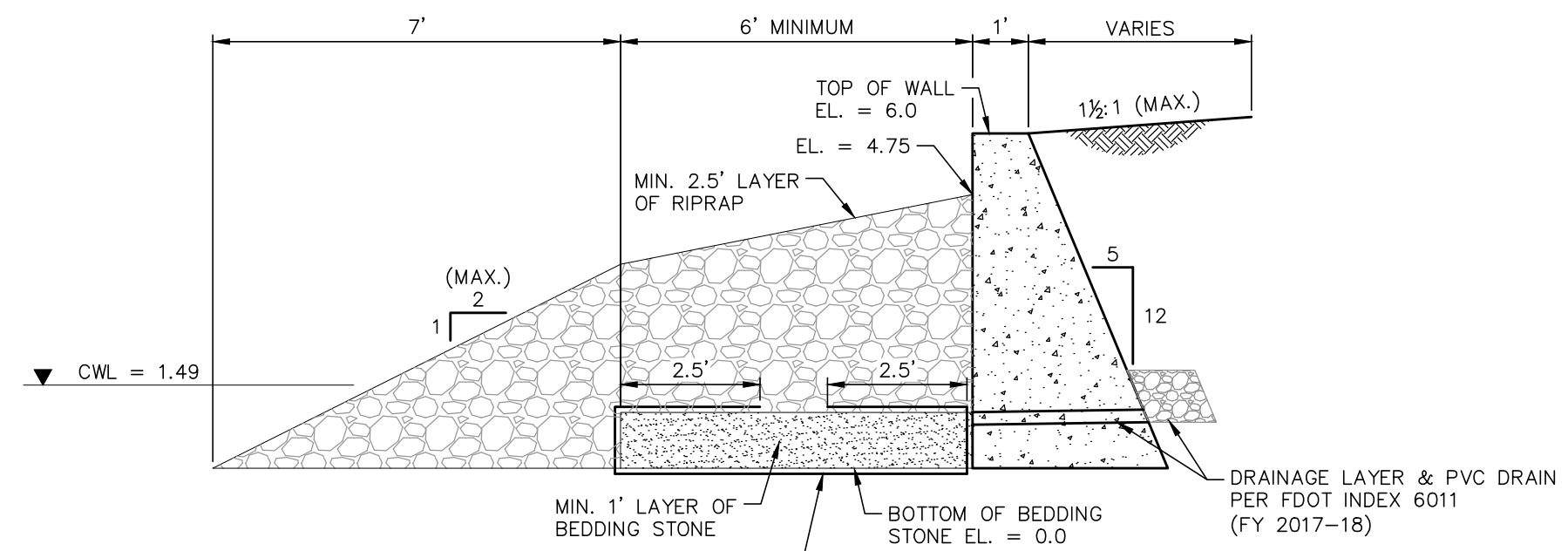
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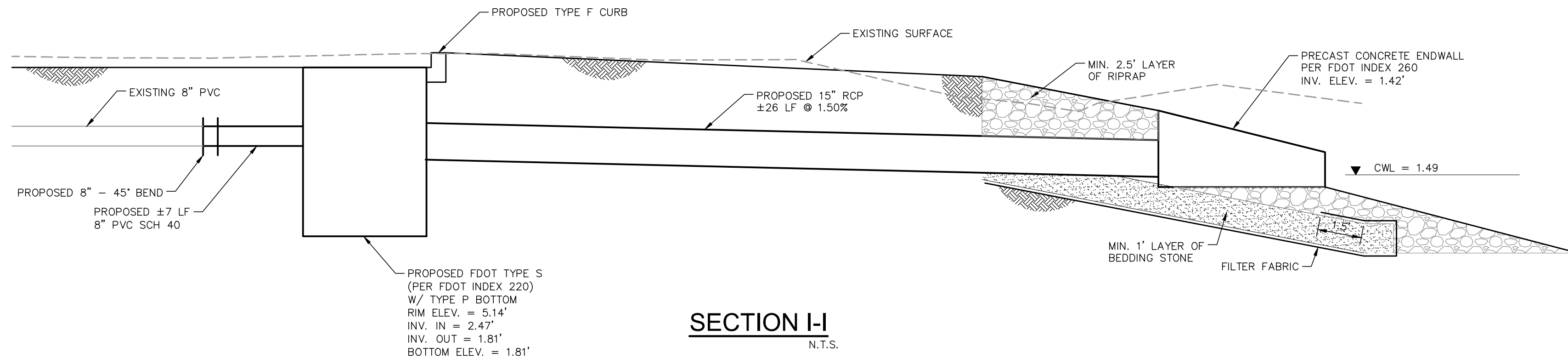
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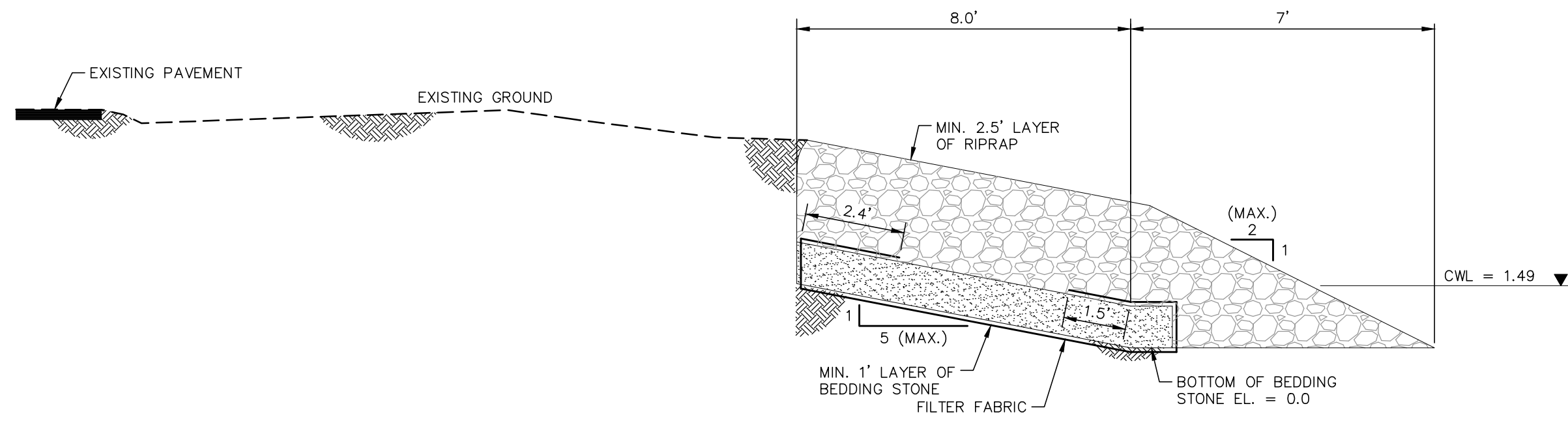
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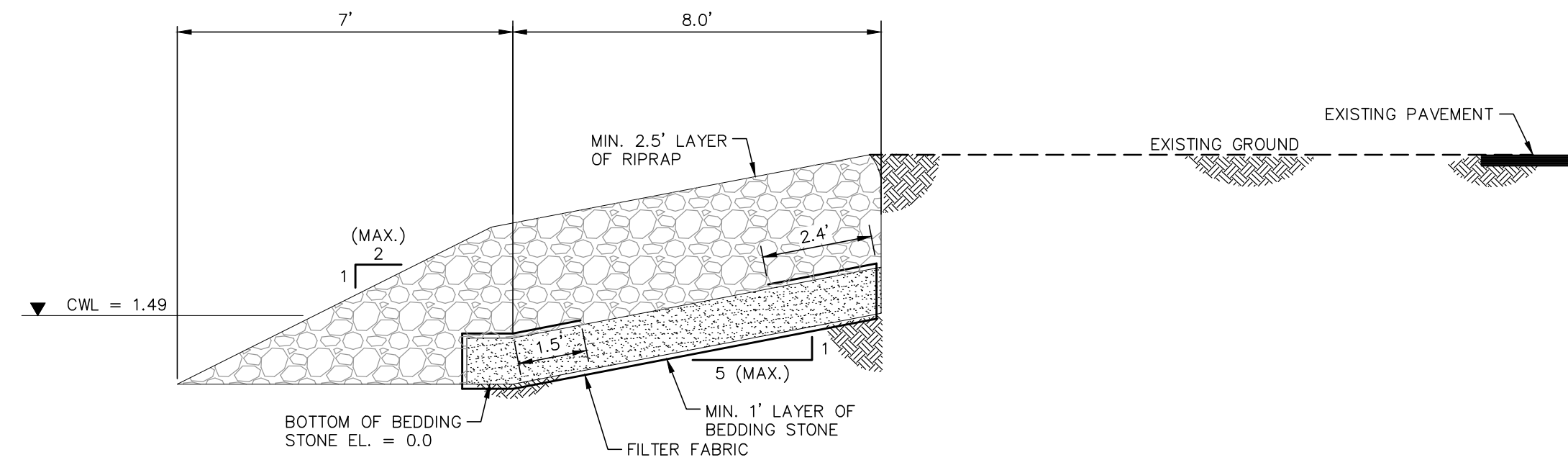
**SECTION C-C**  
N.T.S.



**SECTION I-I**  
N.T.S.



**SECTION J-J**  
N.T.S.



**SECTION K-K**  
N.T.S.

NOTES:  
 1. RUBBLE RIP RAP SHALL MEET THE REQUIREMENTS OF SECTION 530 OF THE FDOT 2018 STANDARD SPECIFICATIONS  
 2. BEDDING STONE PER FDOT STANDARDS (FY 2018) SECTION 530-2.1.4

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LICENSED PROFESSIONAL		AMY N. WICKS FLORIDA LICENSE NUMBER 66339							
KHA PROJECT	148220007	DATE	JUNE 2018	SCALE	AS SHOWN	DESIGNED BY	KHA	DRAWN BY	MRK
CHECKED BY	ANW	DATE							
<b>PROPOSED CROSS SECTIONS</b>									
<b>MULLOCH CREEK WEIR MODIFICATIONS PREPARED FOR LEE COUNTY</b>									
FLORIDA LEE COUNTY									
SHEET NUMBER									
<b>C-9</b>									

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**NOTES**

- CONTRACTOR TO PROVIDE DEWATERING PLAN.

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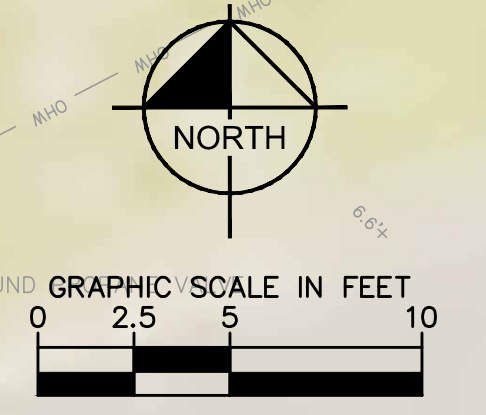
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**CONSTRUCTION  
 PHASE I**

**MULLOCH CREEK WEIR  
 MODIFICATIONS  
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 FLORIDA

SHEET NUMBER  
**C-10**

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 CHECKED BY  
 ANW  
 DATE

**MULLOCH CREEK WEIR  
 MODIFICATIONS  
 PHASE II**

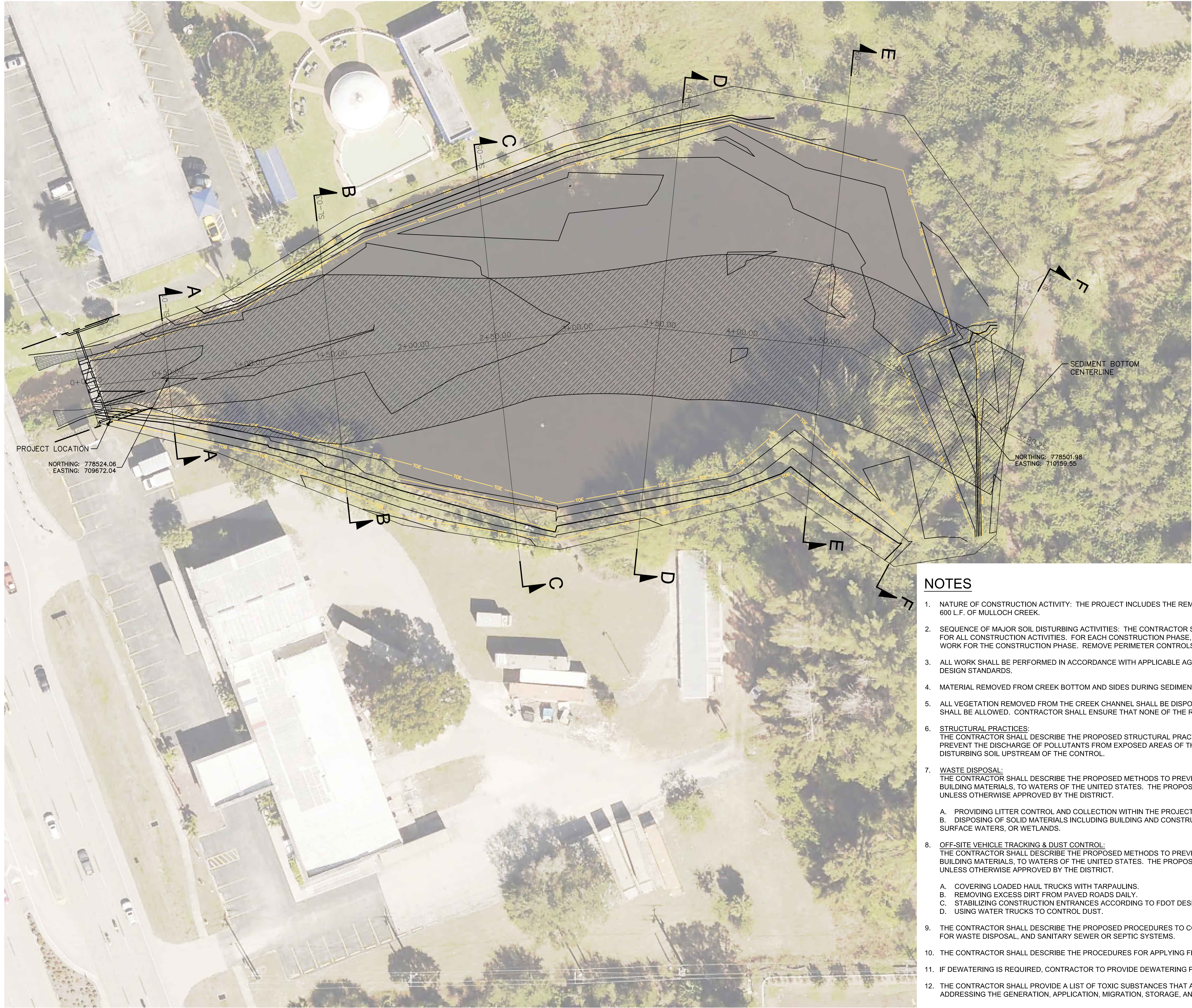
MULLOCH CREEK WEIR  
 MODIFICATIONS  
 PREPARED FOR  
 LEE COUNTY  
 FLORIDA

SHEET NUMBER  
**C-11**

**NOTES**

- CONTRACTOR TO PROVIDE DEWATERING PLAN.

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**LEGEND**

 APPROXIMATE LIMIT OF MAINTENANCE DREDGING

**NOTES**

1. NATURE OF CONSTRUCTION ACTIVITY: THE PROJECT INCLUDES THE REMOVAL OF ACCUMULATED SEDIMENT FROM APPROXIMATELY 600 L.F. OF MULLOCH CREEK.
2. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE AGENCY REGULATIONS, PERMIT REQUIREMENTS AND FDOT DESIGN STANDARDS.
4. MATERIAL REMOVED FROM CREEK BOTTOM AND SIDES DURING SEDIMENT REMOVAL SHALL BE DISPOSED OF PROPERLY.
5. ALL VEGETATION REMOVED FROM THE CREEK CHANNEL SHALL BE DISPOSED OF PROPERLY. NO BURNING OF REMOVED VEGETATION SHALL BE ALLOWED. CONTRACTOR SHALL ENSURE THAT NONE OF THE REMOVED VEGETATION REMAINS IN THE CREEK CHANNEL.
6. **STRUCTURAL PRACTICES:**  
 THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL.
7. **WASTE DISPOSAL:**  
 THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE DISTRICT.
  - A. PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
  - B. DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE. BUT NOT IN SURFACE WATERS, OR WETLANDS.
8. **OFF-SITE VEHICLE TRACKING & DUST CONTROL:**  
 THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE DISTRICT.
  - A. COVERING LOADED HAUL TRUCKS WITH TARPULLINS.
  - B. REMOVING EXCESS DIRT FROM PAVED ROADS DAILY.
  - C. STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO FDOT DESIGN STANDARD 106.
  - D. USING WATER TRUCKS TO CONTROL DUST.
9. THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.
10. THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES.
11. IF DEWATERING IS REQUIRED, CONTRACTOR TO PROVIDE DEWATERING PLAN.
12. THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

No.	REVISIONS	DATE	BY

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 WWW.KIMLEY-HORN.COM CA 00000696

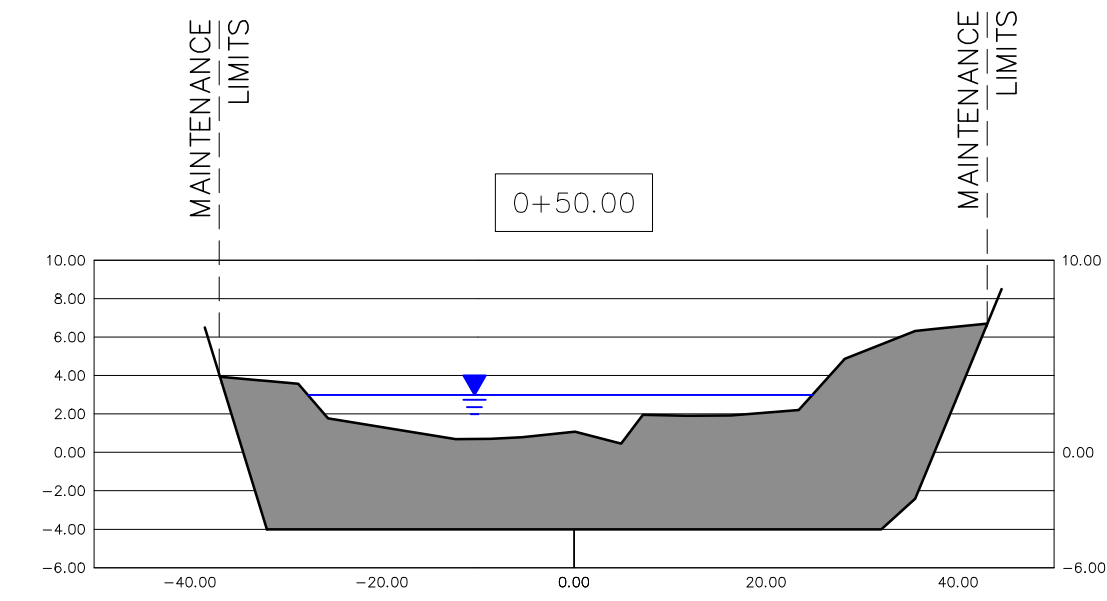
LICENSED PROFESSIONAL  
 AMY N. WICKS  
 FLORIDA LICENSE NUMBER  
 66339

KHA PROJECT  
 148220007  
 DATE  
 JUNE 2018  
 SCALE AS SHOWN  
 DESIGNED BY KHA  
 DRAWN BY MRK  
 CHECKED BY ANW DATE:

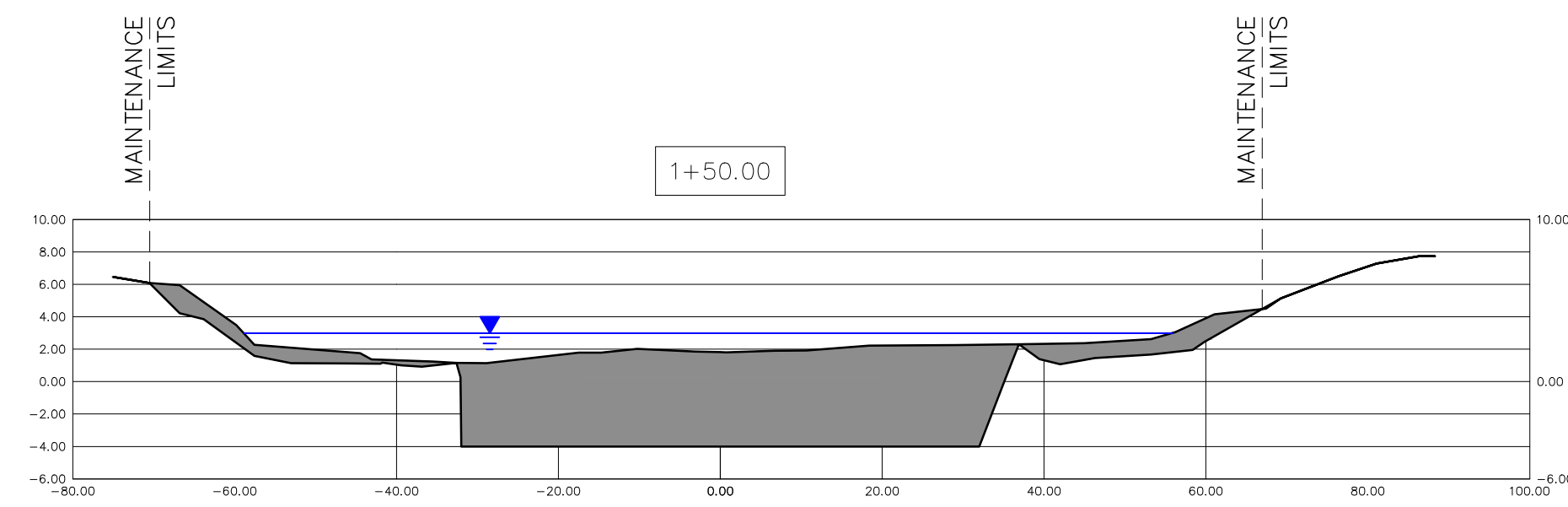
**CHANNEL SILT  
 REMOVAL**

**MULLOCH CREEK WEIR  
 MODIFICATIONS  
 PREPARED FOR  
 LEE COUNTY**  
 FLORIDA  
 LEE COUNTY

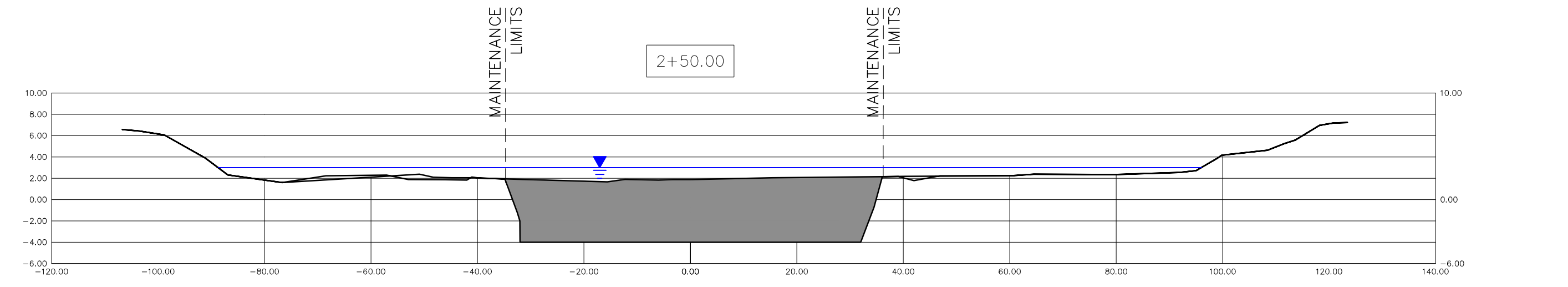
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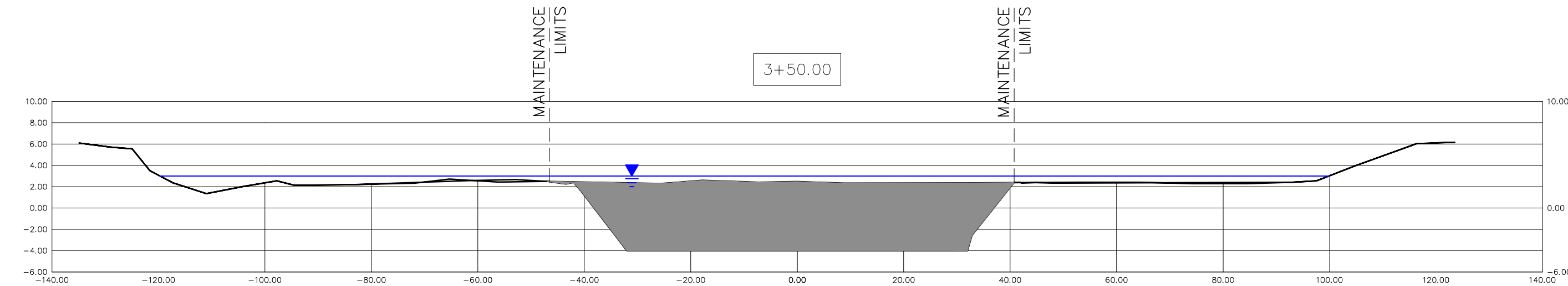
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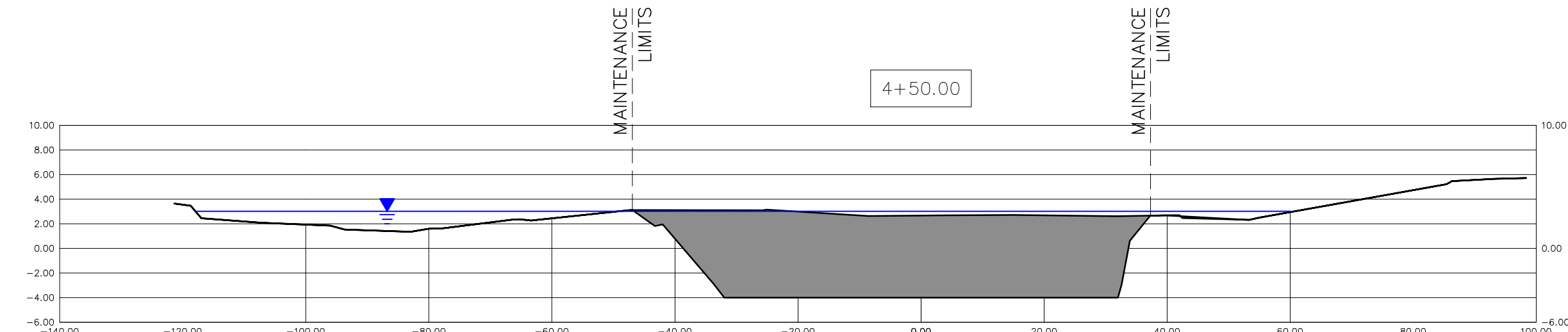
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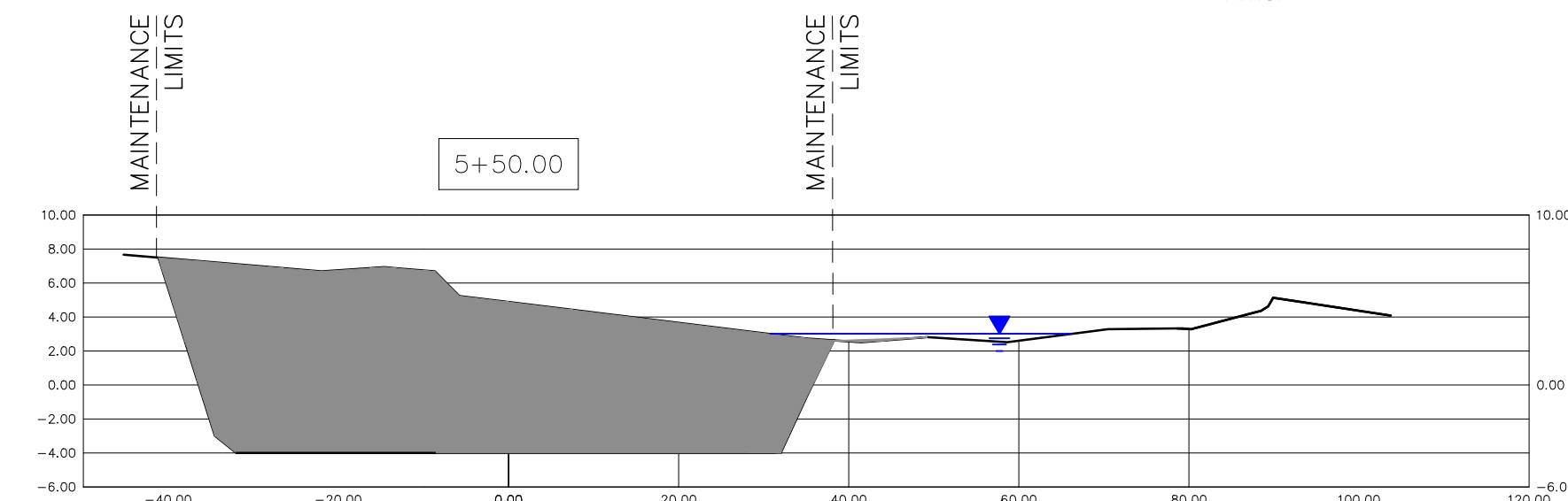
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SECTION C-C**  
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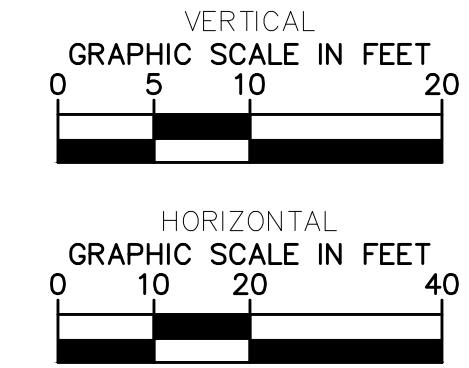
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SECTION D-D**  
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**CHANNEL CROSS SECTION  
SECTION E-E**  
N.T.S.



**CHANNEL CROSS SECTION  
SECTION F-F**  
N.T.S.



**LEGEND**

- CONTROL ELEVATION
- CHANNEL SILT

CHANNEL SEDIMENT EARTHWORK VOLUME				
STATION	SINGLE END AREA (SF)	DOUBLE END AREA (SF)	DISTANCE (FT)	VOLUME (CY)
0+50	925			
1+50	900	1825	100	3400
2+50	800	1700	100	3150
3+50	930	1730	100	3200
4+50	980	1910	100	3550
5+50	1330	2310	100	4300
		1300		
			TOTAL	20000

**NOTES**

1. NATURE OF CONSTRUCTION ACTIVITY: THE PROJECT INCLUDES THE REMOVAL OF ACCUMULATED SEDIMENT FROM APPROXIMATELY 600 L.F. OF MULLOCH CREEK.
2. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE AGENCY REGULATIONS, PERMIT REQUIREMENTS AND FDOT DESIGN STANDARDS.
4. MATERIAL REMOVED FROM CREEK BOTTOM AND SIDES DURING SEDIMENT REMOVAL SHALL BE DISPOSED OFF-SITE IN AN ENVIRONMENTALLY SAFE MANNER.
5. ALL VEGETATION REMOVED FROM THE CREEK CHANNEL SHALL BE DISPOSED OFF-SITE IN AN ENVIRONMENTALLY SAFE MANNER. NO BURNING OF REMOVED VEGETATION SHALL BE ALLOWED. CONTRACTOR SHALL ENSURE THAT NONE OF THE REMOVED VEGETATION REMAINS IN THE CREEK CHANNEL.
6. STRUCTURAL PRACTICES:  
THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL.
7. WASTE DISPOSAL:  
THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE DISTRICT.
  - A. PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
  - B. DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE. BUT NOT IN SURFACE WATERS, OR WETLANDS.
8. OFF-SITE VEHICLE TRACKING & DUST CONTROL:  
THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE DISTRICT.
  - A. COVERING LOADED HAUL TRUCKS WITH TARPULINS.
  - B. REMOVING EXCESS DIRT FROM PAVED ROADS DAILY.
  - C. STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO FDOT DESIGN STANDARD 106.
  - D. USING WATER TRUCKS TO CONTROL DUST.
9. THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.
10. THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES.
11. THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

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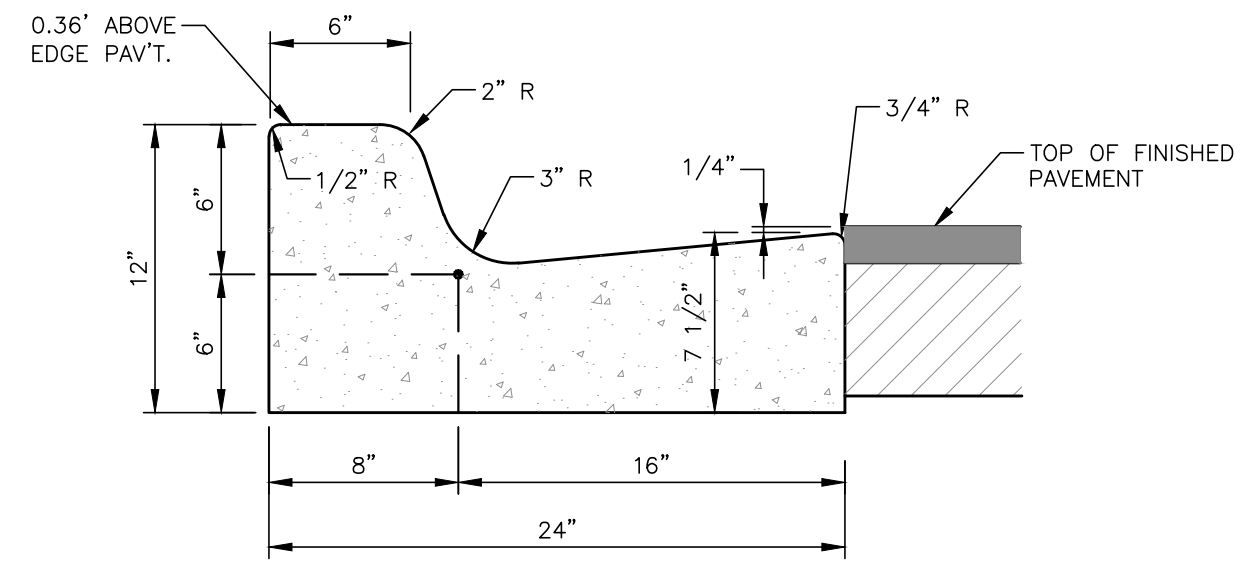
**Kimley»Horn**  
 © 2018 KIMLEY-HORN AND ASSOCIATES, INC. 3901  
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LICENSED PROFESSIONAL  
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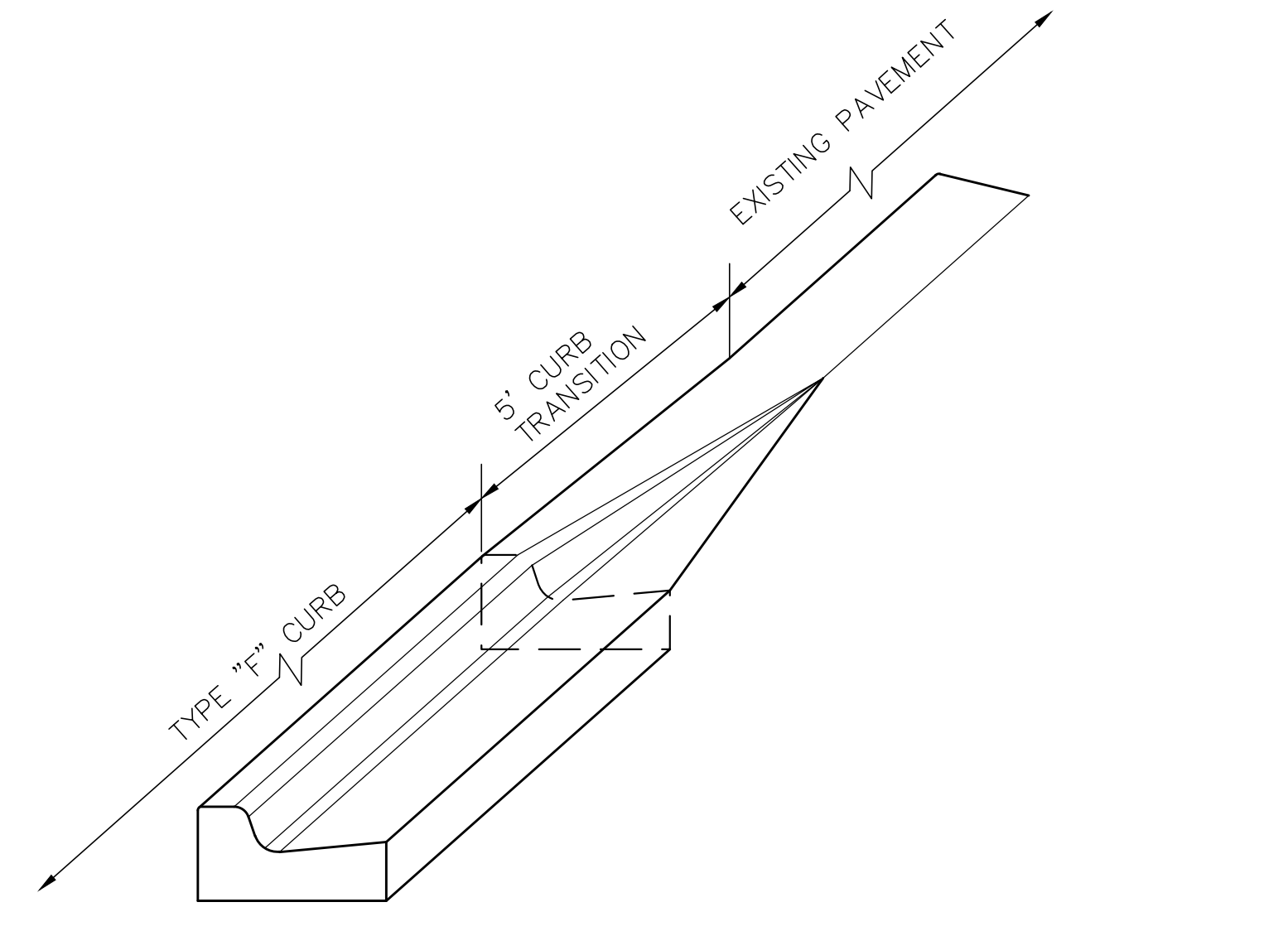
**CROSS SECTIONS**

**MULLOCH CREEK WEIR  
MODIFICATIONS  
PREPARED FOR  
LEE COUNTY  
LEE COUNTY FLORIDA**

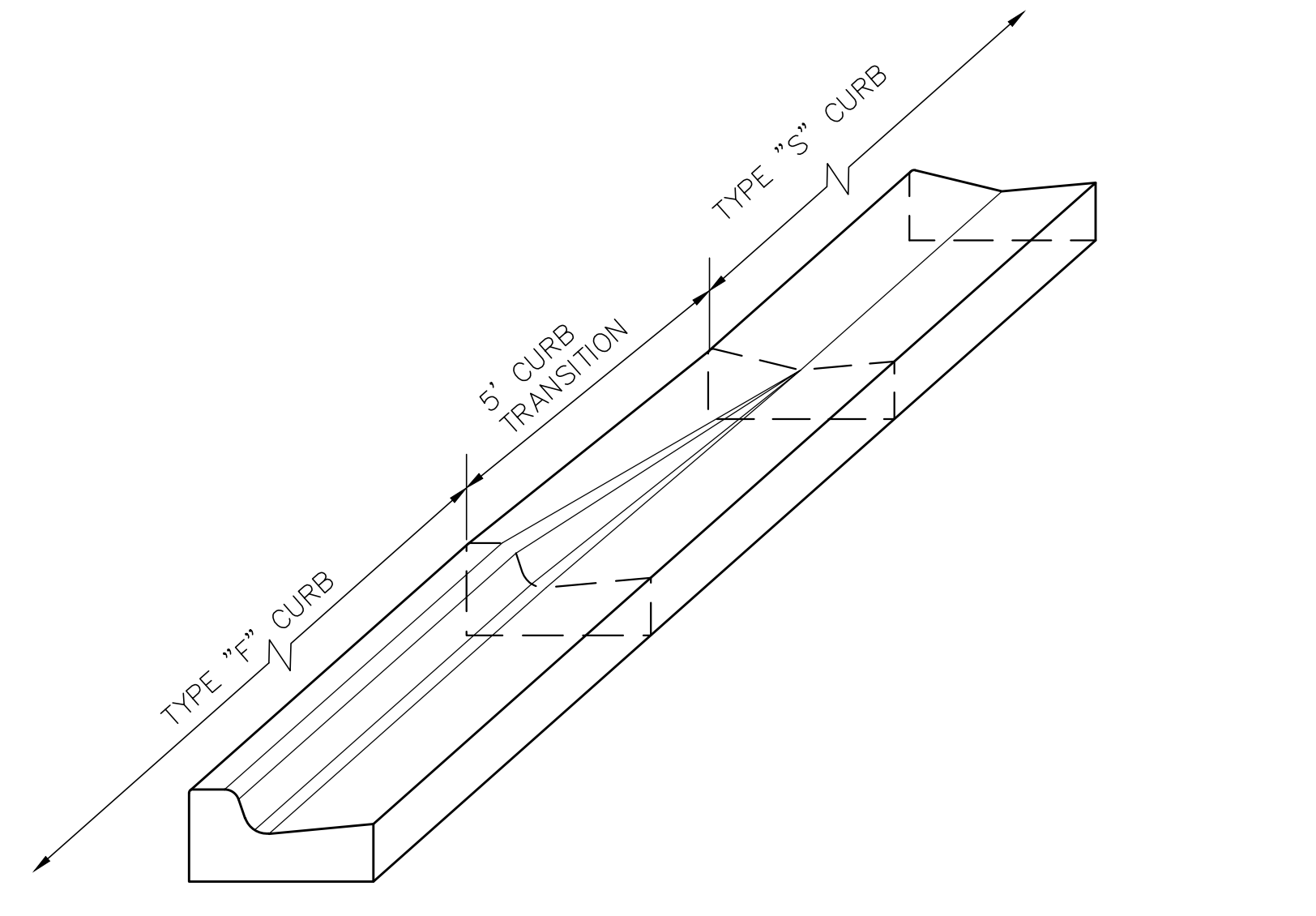
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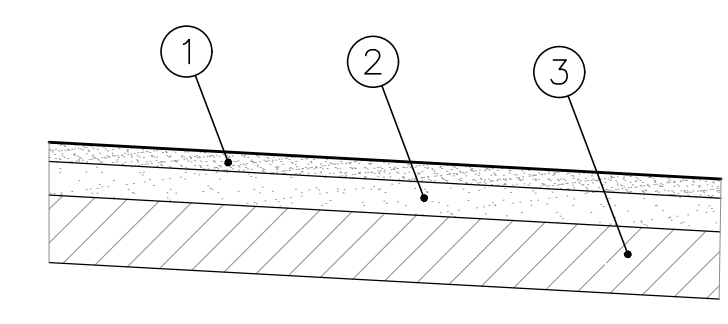
**TYPE "F" CURB**  
N.T.S.



**TYPE 'F' TO PAVEMENT TRANSITION DETAIL**  
N.T.S.

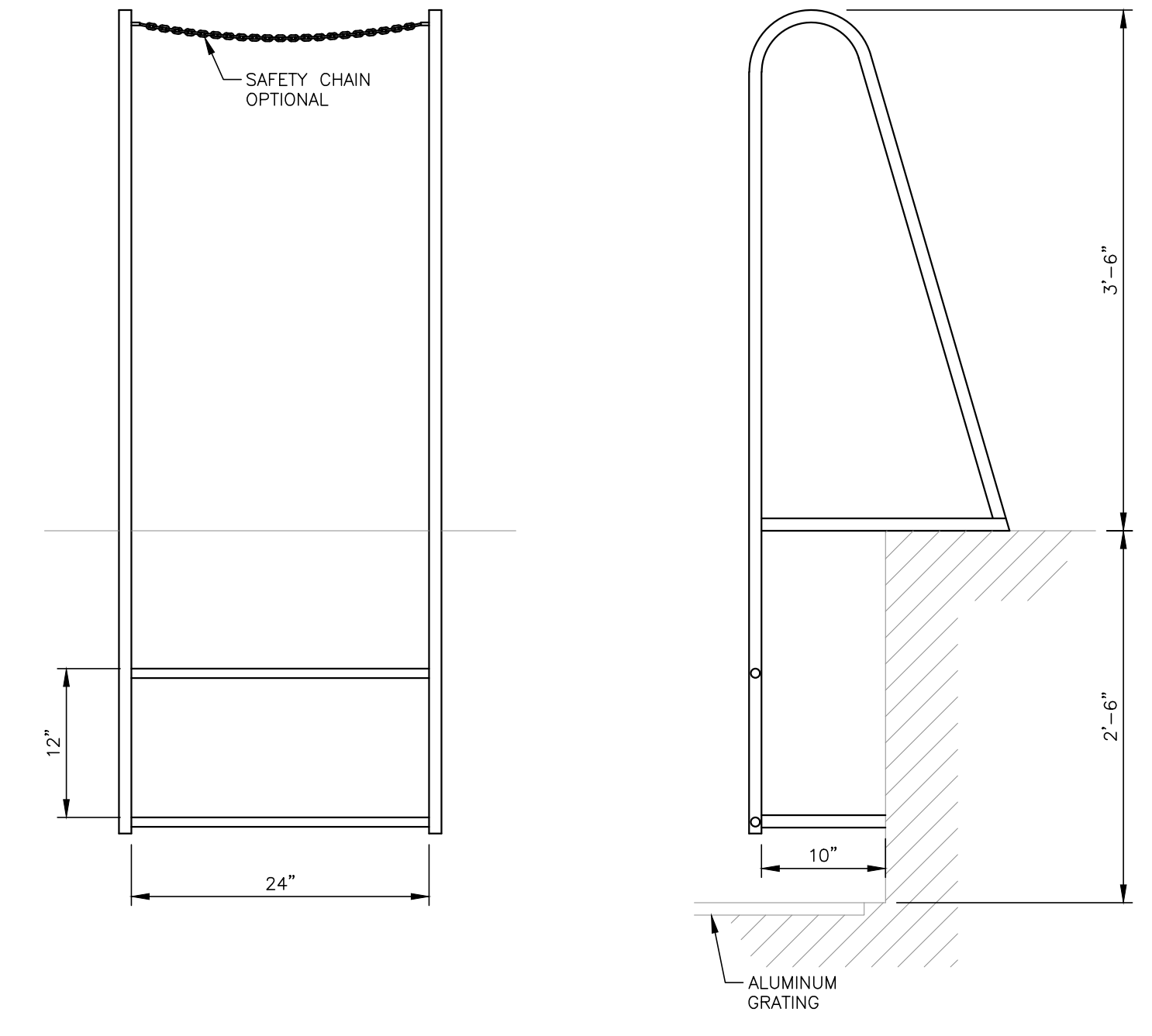


**TYPE 'F' & TYPE 'S' CURB TRANSITION DETAIL**  
N.T.S.



- ① 1-1/2" TYPE SP 9.5 ASPHALT (FDOT SECTION 334)
- ② 6" LIMEROCK (FDOT SECTION 200) BASE, LBR = 100 MINIMUM
- ③ 8" TYPE B STABILIZED SUBGRADE, LBR = 40 MINIMUM (FDOT SECTION 160)

**TYPICAL ASPHALT PAVEMENT SECTION**  
N.T.S.



**WALL-MOUNT WALK-THROUGH ALUMINUM LADDER DETAIL**  
N.T.S.

NOTE:  
CONTRACTOR TO PROVIDE SHOP DRAWINGS

No.	REVISIONS	DATE	BY

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FLORIDA LICENSE NUMBER	66339
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DRAWN BY	MRK
CHECKED BY	ANW
DATE	

KHA PROJECT	148220007
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SCALE	AS SHOWN
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CHECKED BY	ANW
DATE	

**MULLOCH CREEK WEIR MODIFICATIONS**  
 PREPARED FOR  
**LEE COUNTY**  
 LEE COUNTY FLORIDA

SHEET NUMBER  
**C-14**