

# CONSTRUCTION PLANS FOR CHERRY STREET DRAINAGE IMPROVEMENTS

## TASK 1 - OUTFALL DITCH JAN DRIVE TO ROGERS POND

PREPARED FOR



CITY OF CALLAWAY

CITY OFFICIALS

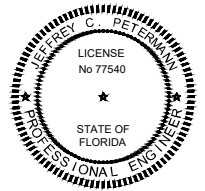
PAMN HENDERSON	MAYOR
SCOTT DAVIS	WARD I COMMISSIONER
DAVID GRIGGS	WARD II COMMISSIONER
BOB PELLETIER	WARD III COMMISSIONER
FRANK MANCINELLI	WARD IV COMMISSIONER

**BDI PROJECT No. 27655.01**  
**MARCH 2022**

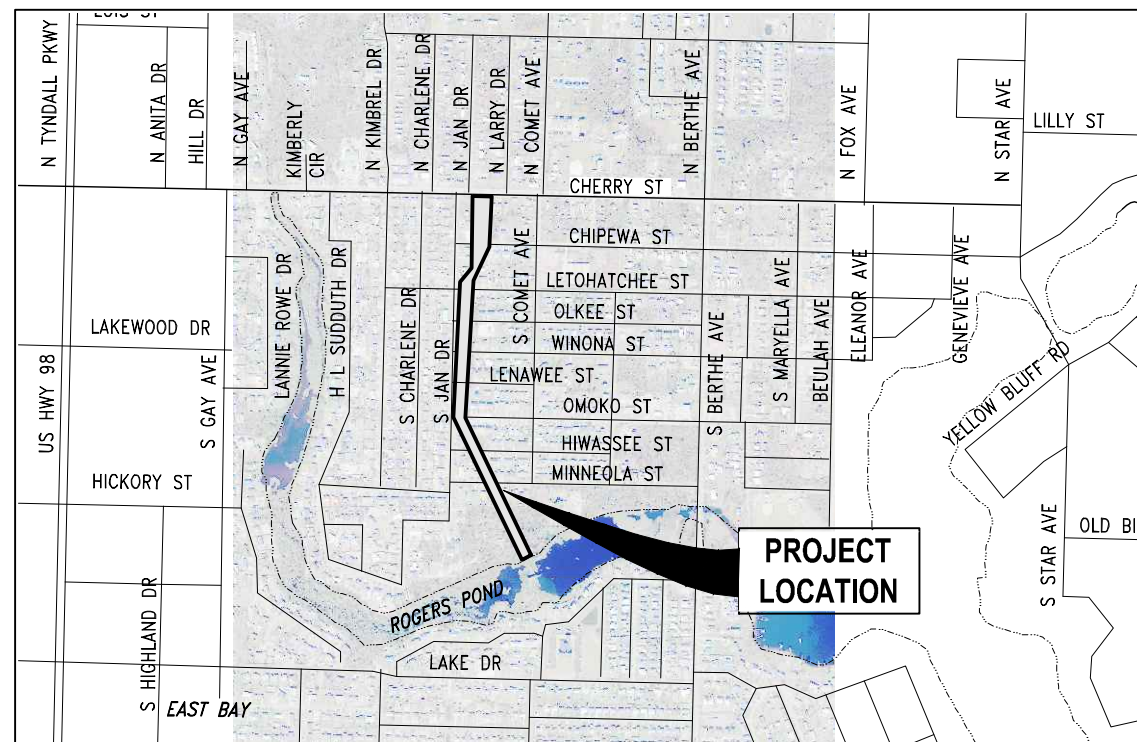
PREPARED BY

**BASKERVILLE-DONOVAN, INC.**  
**ENGINEERING THE SOUTH SINCE 1927**

449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661  
ENGINEERING BUSINESS: EB-000340  
Pensacola - Panama City Beach - Tallahassee - Mobile



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VICINITY MAP  
NOT TO SCALE



### SHEET INDEX

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100% PLAN SET  
RELEASED FOR CONSTRUCTION

GENERAL NOTES:

1. THE CONTRACTORS SHALL NOTIFY THE PROJECT ADMINISTRATOR 48 HOURS PRIOR TO CONSTRUCTION.
2. ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE CITY OF CALLAWAY SHALL BE COMPLIED WITHIN EVERY DETAIL.
3. ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE PROJECT ADMINISTRATOR OR DESIGNEE.
4. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2000 EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE PROJECT ADMINISTRATOR OR DESIGNEE.
5. ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.
7. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY BAY COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.
8. EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE PROJECT ADMINISTRATOR DESIGNEE. PROVIDE A STRAIGHT-END TAPER WHERE DROP CURB MEETS EXISTING RURAL SECTIONS.
10. ACCESS TO EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
11. ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, THE AMERICANS WITH DISABILITIES ACT (ADA), THE ADA COMPLIANCE HANDBOOK, LATEST EDITION, AND THE FLORIDA ACCESSIBILITY CODE.
12. EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE PROJECT ADMINISTRATOR OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
13. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE 10' OPEN LANE AT ALL TIMES. NO OPEN EXCAVATION SHALL REMAIN OVER NIGHT. CONTRACTOR SHALL RESTORE ROAD TO TWO LANES OF TRAFFIC AT THE END OF EACH WORK DAY.
14. CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND ARMY CORP. OF ENGINEERS REQUIREMENTS.
15. ONLY ACCESS TO THE ROAD R/W AND TEMPORARY WORK AGREEMENTS (TWA) AS SHOWN IS GUARANTEED BY THE CITY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE CITY.
16. IN THE EVENT THAT SURVEY MONUMENTATION OR REFERENCE POINTS ARE MISSING OR HAVE BEEN DESTROYED, PLEASE CONTACT:  
  
ROBERT SCOTT MILLS, P.L.S. FLORIDA  
BASKERVILLE-DONOVAN, INC.  
850-438-9661
17. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.
18. ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED IN PLANS.
19. ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.
20. MAINTENANCE OF TRAFFIC AS PER FDOT STANDARD PLANS INDEX 102 AND THE TRAFFIC CONTROL PLANS.
21. ALL EXISTING MAILBOXES INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS. ALL EXISTING BRICK MAILBOXES WITHIN LIMITS OF CONSTRUCTION OR CITY RIGHT OF WAY SHALL BE REMOVED AND PLACED ON THE PROPERTY LINE OF THE OWNER. CONTRACTOR SHALL REPLACE EXISTING BRICK MAILBOX WITH APPROVED PLASTIC BREAK AWAY MAILBOX.
22. THE CONTRACTOR SHALL, AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS. THE CONTRACTOR SHALL CONTACT THE PROJECT ADMINISTRATOR PRIOR TO INSTALLATION OF ANY SIGNING AND PAVEMENT MARKINGS.
23. WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ADMINISTRATOR PRIOR TO ANY EXCAVATION.
24. PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPES LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE MITERED END SECTION.
25. HORIZONTAL DATA SHOWN HEREON ARE GRID PROJECTED IN THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH, ZONE 0903, RELATIVE TO THE NORTH AMERICAN DATUM 83/2007 (NAD 83/2007). VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).

26. ALL CONCRETE DRIVEWAY TURNOUTS ARE TO BE CONSTRUCTED AS TYPE G1 PER FDOT STANDARD PLANS INDEX 522-003 UNLESS OTHERWISE NOTED ON THE PLANS.
27. ALL RAMPS AND DRIVEWAYS MUST MEET ADA COMPLIANCE AND MUST BE BUILT TO CURRENT FLORIDA DESIGN STANDARDS.
28. TO FACILITATE EARTHWORK CALCULATIONS, PROPOSED DRAINAGE STRUCTURES AND PIPES ARE NOT SHOWN ON THE ROADWAY CROSS SECTIONS. REFER TO THE DRAINAGE STRUCTURE SHEETS FOR INFORMATION ABOUT THE PROPOSED STRUCTURES.
29. ALL ADA DETECTABLE WARNING MATS SHALL EXTEND THE FULL WIDTH OF THE CURB RAP AND EXTEND 2 FT. FROM THE TOE OF THE CURB RAMP. ALL DETECTABLE WARNINGS SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 522 AND FDOT SPECIFICATION 527. ALL ADA DETECTABLE WARNING SYSTEMS MUST BE ON THE FDOT APPROVED PRODUCTS LIST.
30. ALL FILL MATERIAL SHALL BE SELECT FILL.
31. CONTRACTOR SHALL NOTIFY ALL ADJACENT PROPERTY OWNERS IF THEIR LANDSCAPING IS TO BE REMOVED TO COORDINATE THE REMOVAL AND POSSIBLE RELOCATION.
32. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY METERS, VALVES, SERVICE LATERALS, FIRE HYDRANTS, MAINS, WATER, WASTEWATER, OR GAS FACILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY.
33. SWEEPING SHALL OCCUR IMMEDIATELY AFTER SUCH EVENTS THAT CAUSE TRACKING ONTO STREET.
34. ALL PROPOSED STRIPING AND MESSAGES SHALL BE THERMOPLASTIC. THERMOPLASTIC IS TO BE USED FOR FINAL STRIPING ONLY. INTERMEDIATE STRIPING SHALL BE PAINTED.
35. CONTRACTOR TO INSTALL DOUBLE SILT FENCING BETWEEN PROJECT ALIGNMENT END & ROGERS POND PER DETAILS ON SHEET C-900 & C-907.

UTILITY NOTES:

1. THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.
2. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES. KNOWN UTILITIES OWNERS INCLUDE:

WATER - CITY OF CALLAWAY ZACH MILLER 850-871-1033  KNOLOGY RANDALL HAIRSTON 850-215-5719  GULF POWER SANDRA PERRY 850-872-3315  TECO MIKE MCQUIRE 850-914-6104	SEWER - CITY OF CALLAWAY JOHN FRANKLIN 850-215-7232  COMCAST JEFFREY SMITH 850-770-8056  AT&T DISTRIBUTION AL RUDOLPH 850-436-1488
--	--
3. ALL LOOP DETECTOR INSTALLATION SHALL BE DONE AS PER FDOT STANDARD PLANS INDEX 660-001.
4. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
5. UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.



**BASKERVILLE-DONOVAN, INC.**  
**ENGINEERING THE SOUTH SINCE 1927**  
 448 W. MAIN ST., PENSACOLA, FL 32502 (850) 438-9661  
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JEFFREY C. PERDUE, P.E.  
 P.E. Reg. Engineer #71540

**CHERRY STREET  
 DRAINAGE IMPROVEMENTS  
 (JAN DR TO ROGERS  
 POND)**

PROJECT NO:	DESIGNED BY:	DRAWN BY:	CHK'D BY:	PROJ. MGR.:	DATE:	REVISION/ACTION TAKEN	APPR.	DATE	NOT RELEASED FOR CONSTRUCTION BY	DATE
27651.01	JCP	RG	GM	JCP	MAR 2022					

**GENERAL NOTES**

**G-001**

LINE #	DISTANCE	BEARING
L1	102.37'	S1° 16' 19.62"W
L2	90.82'	S0° 03' 36.74"W
L3	41.03'	S2° 20' 37.73"E
L4	89.19'	S4° 36' 29.90"W
L5	71.24'	S9° 00' 14.53"W
L6	60.37'	S38° 16' 09.44"W
L7	93.23'	S34° 17' 33.90"W
L8	144.17'	S28° 12' 43.27"W
L9	85.74'	S34° 24' 56.94"W
L10	30.98'	S19° 36' 06.10"W
L11	26.95'	S8° 32' 34.97"W
L12	80.18'	S10° 21' 01.44"E
L13	33.28'	S16° 44' 38.71"E
L14	50.53'	S10° 46' 03.80"E
L15	52.86'	S19° 09' 38.13"E
L16	38.92'	S17° 00' 34.46"E
L17	24.04'	S8° 54' 31.99"E
L18	44.39'	S18° 58' 13.10"E
L19	105.24'	S5° 14' 36.97"W
L20	29.49'	S33° 45' 23.94"W
L21	43.92'	S15° 12' 25.50"W
L22	45.22'	S24° 37' 30.33"W
L23	93.05'	S15° 44' 42.85"W
L24	39.78'	S6° 48' 54.53"W
L25	123.88'	S4° 27' 12.67"E
L26	66.96'	S0° 38' 43.68"W
L27	32.53'	S8° 43' 17.16"W
L28	31.20'	S41° 29' 20.92"W
L29	43.17'	S11° 08' 39.85"W
L30	27.78'	S13° 05' 54.42"E
L31	27.43'	S4° 46' 46.84"W
L32	38.03'	S17° 08' 04.21"W
L33	49.12'	S9° 54' 47.08"W
L34	43.65'	S21° 57' 04.32"E
L35	58.56'	S14° 26' 46.84"E
L36	56.77'	S9° 17' 52.97"E
L37	37.26'	S28° 13' 26.69"E
L38	33.03'	S13° 10' 44.94"E
L39	151.35'	S29° 14' 36.31"E
L40	82.80'	S26° 39' 32.21"E
L41	110.41'	S22° 00' 52.10"E
L42	91.15'	S3° 37' 56.17"E
L43	41.51'	S43° 44' 44.60"E
L44	64.02'	S37° 55' 17.28"E
L45	27.80'	S2° 46' 17.96"E
L46	44.16'	S40° 29' 23.67"E
L47	48.68'	S78° 35' 32.67"E
L48	93.89'	S32° 25' 15.28"E

LINE #	DISTANCE	BEARING
L49	61.18'	S76° 38' 22.78"E
L50	92.59'	S30° 33' 52.53"E
L51	54.66'	S30° 54' 24.77"W
L52	74.66'	S26° 26' 23.19"W
L53	87.95'	S28° 54' 35.79"W

**BENCH MARK DATA**

**BENCH MARK #1**  
 STA 14+37.83 OFFSET 10.56' LT  
 SET MAGNETIC SURVEY  
 NAIL AND DISK NO. 0340  
 ELEVATION= 24.76'

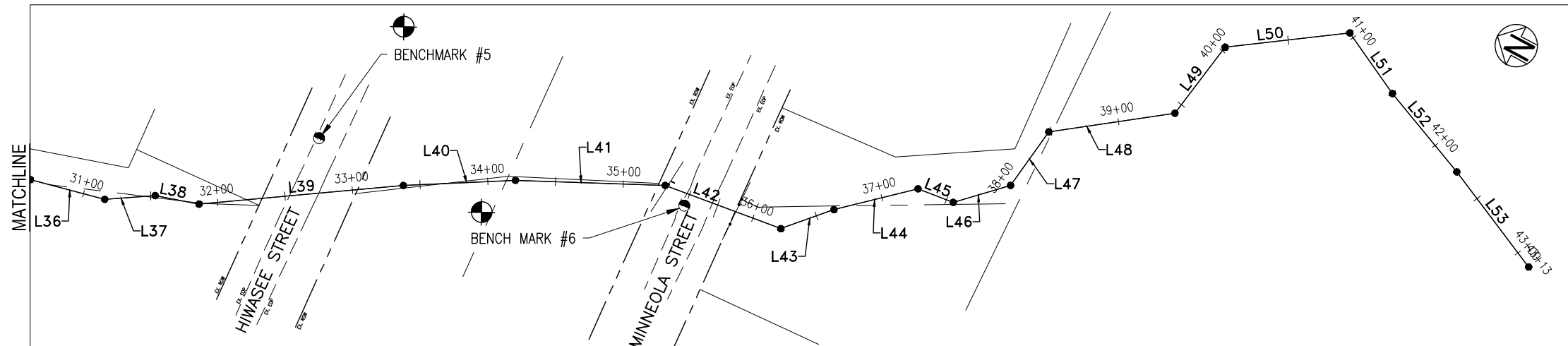
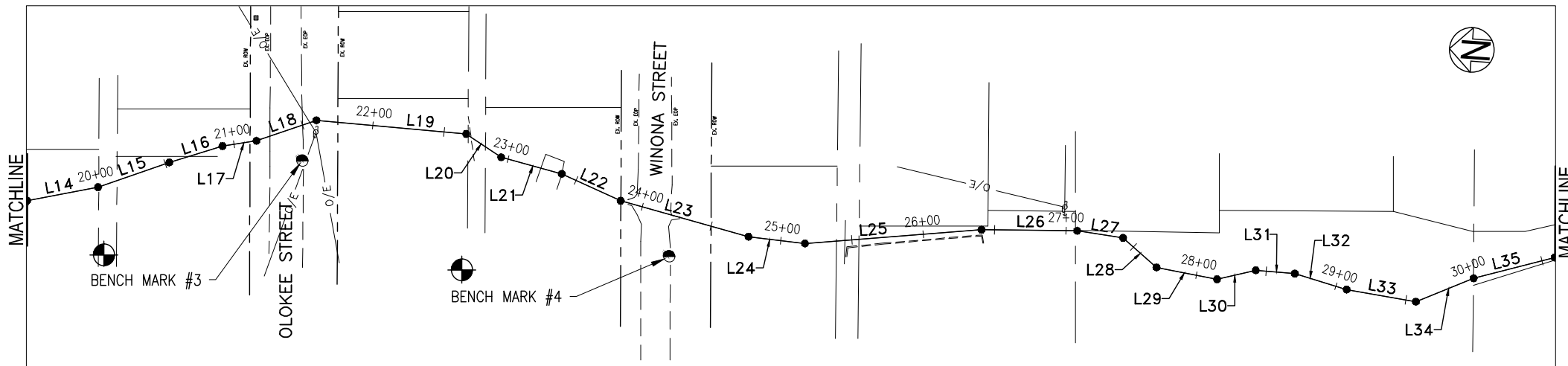
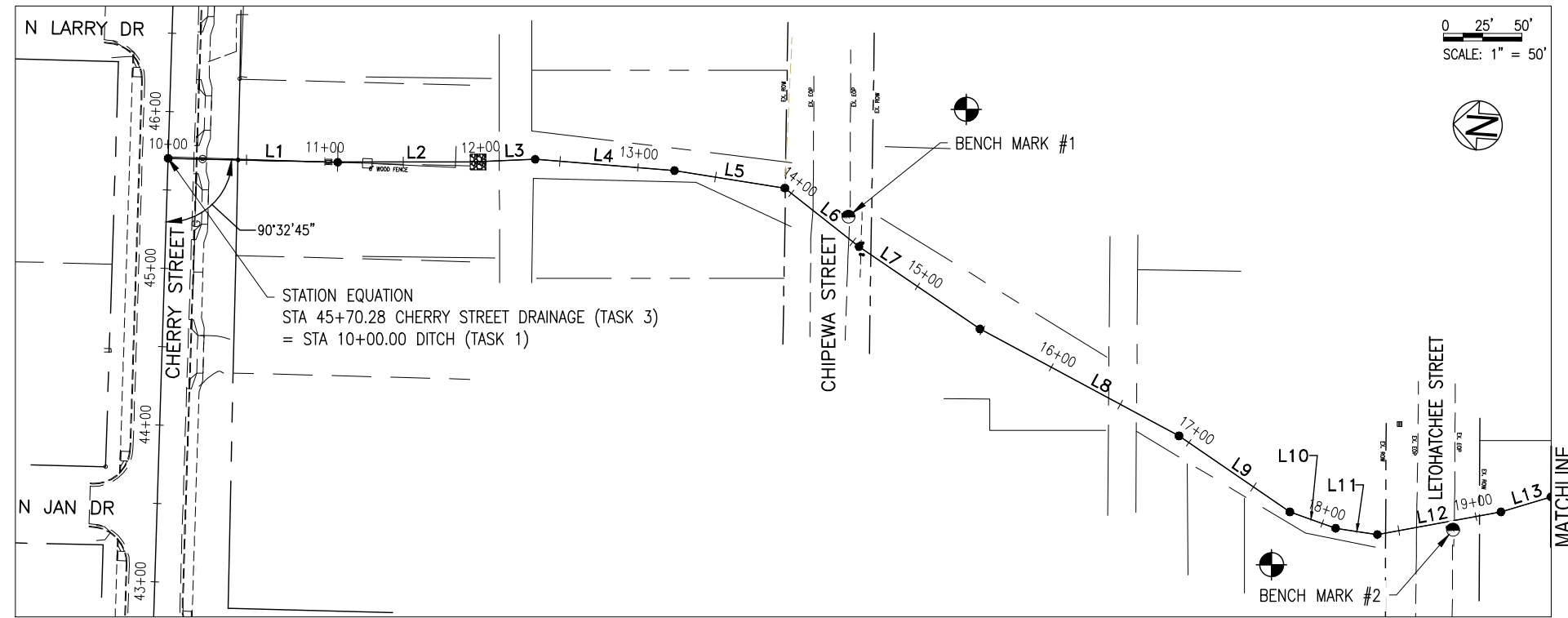
**BENCH MARK #2**  
 STA 18+83.90, OFFSET 5.72' RT  
 SET MAGNETIC SURVEY  
 NAIL AND DISK NO. 0304  
 ELEVATION= 23.48'

**BENCH MARK #3**  
 STA 21+41.68, OFFSET 23.59' RT  
 SET MAGNETIC SURVEY  
 NAIL AND DISK NO. 0304  
 ELEVATION= 21.39'

**BENCH MARK #4**  
 STA 24+27.32, OFFSET 38.33' RT  
 SET MAGNETIC SURVEY  
 NAIL AND DISK NO. 0304  
 ELEVATION= 21.39'

**BENCH MARK #5**  
 STA 32+78.79, OFFSET 40.27' LT  
 SET MAGNETIC SURVEY  
 NAIL AND DISK NO. 0304  
 ELEVATION= 15.96'

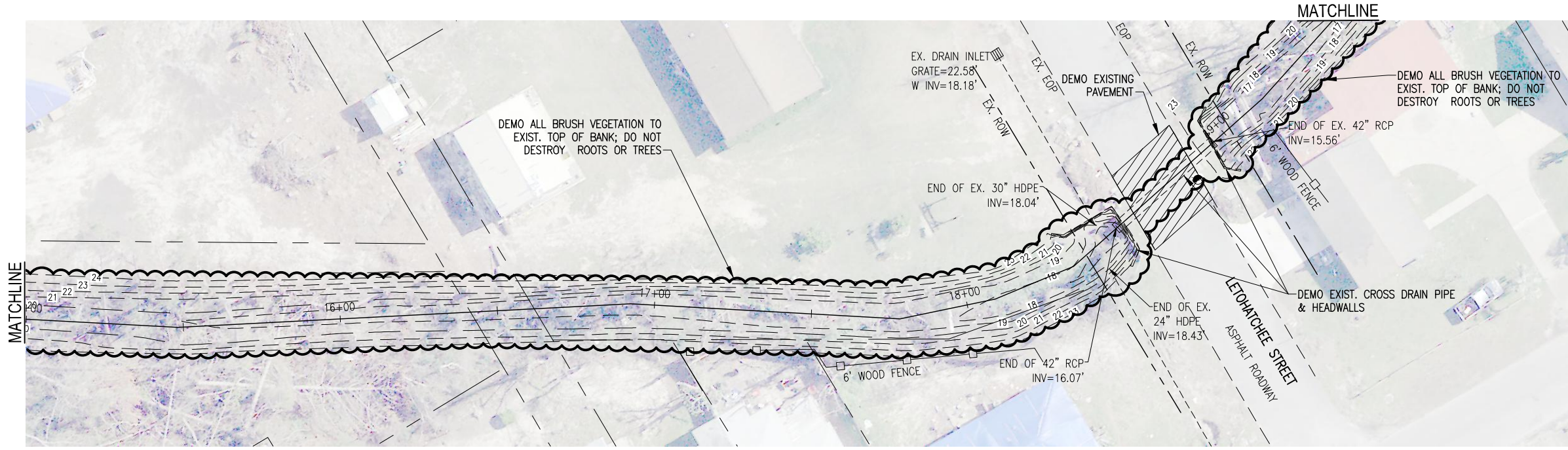
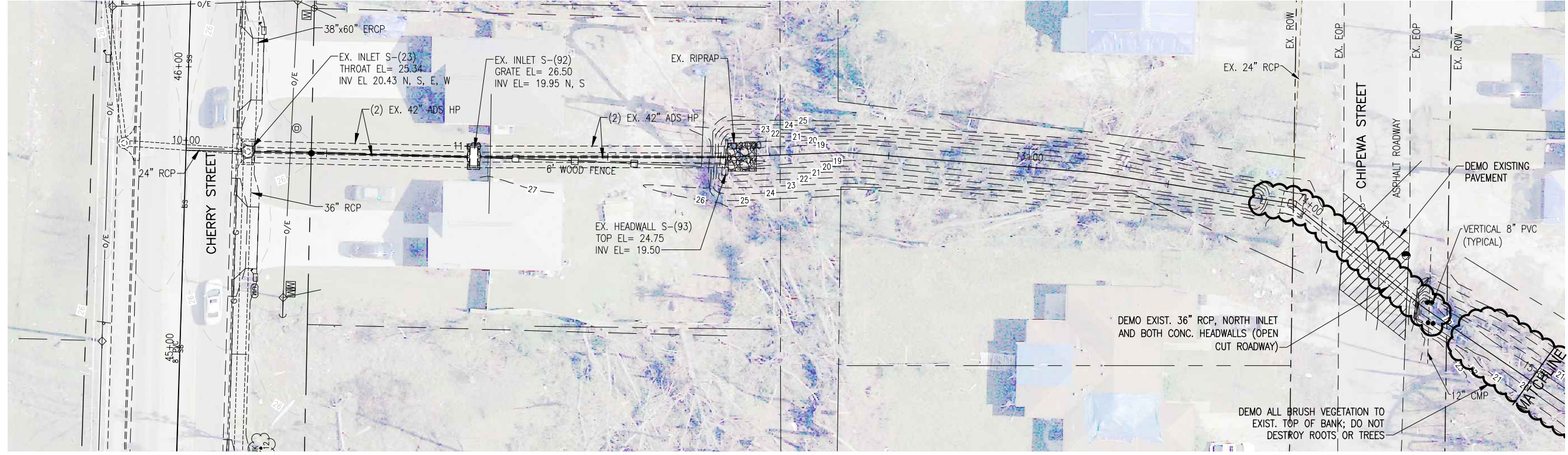
**BENCH MARK #6**  
 STA 35+49.24, OFFSET 9.14' RT  
 SET MAGNETIC SURVEY  
 NAIL AND DISK NO. 0304  
 ELEVATION= 13.21'



**CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)**

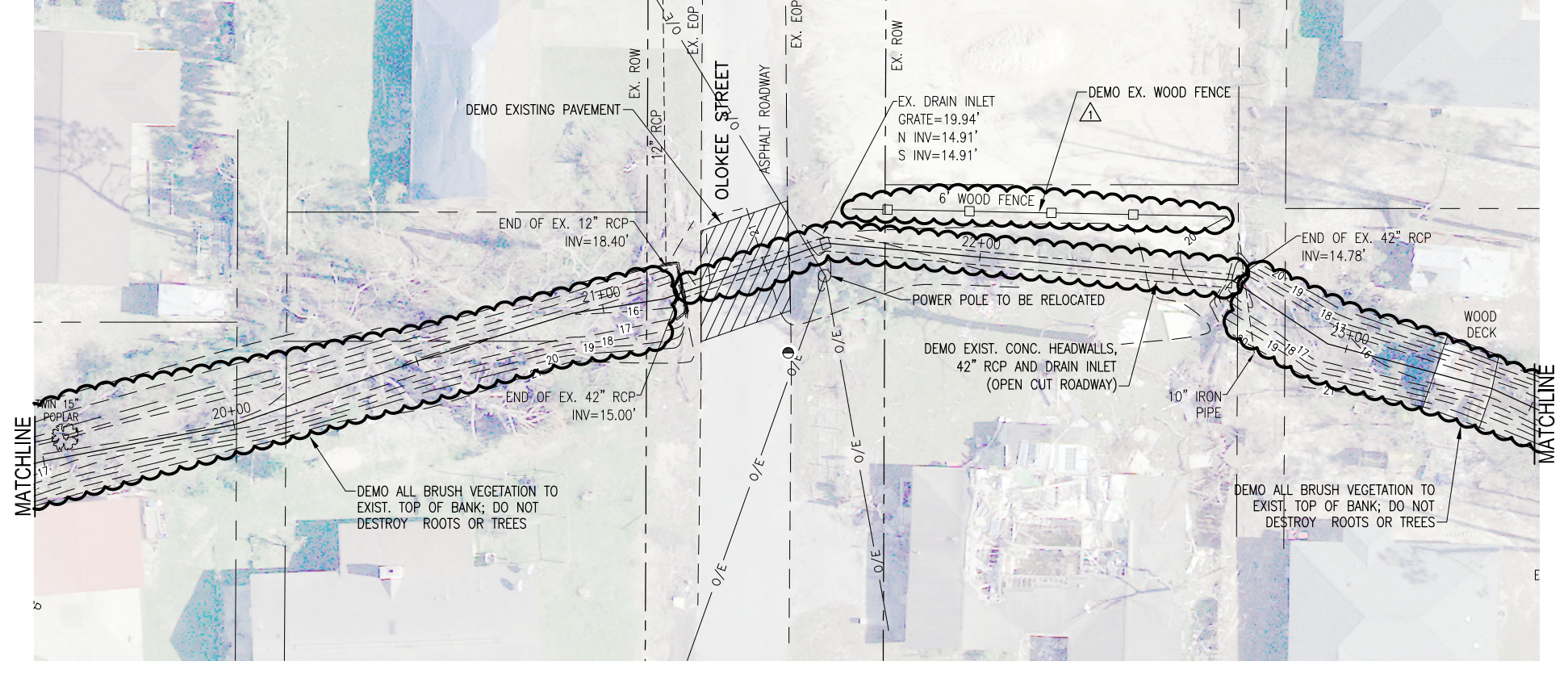
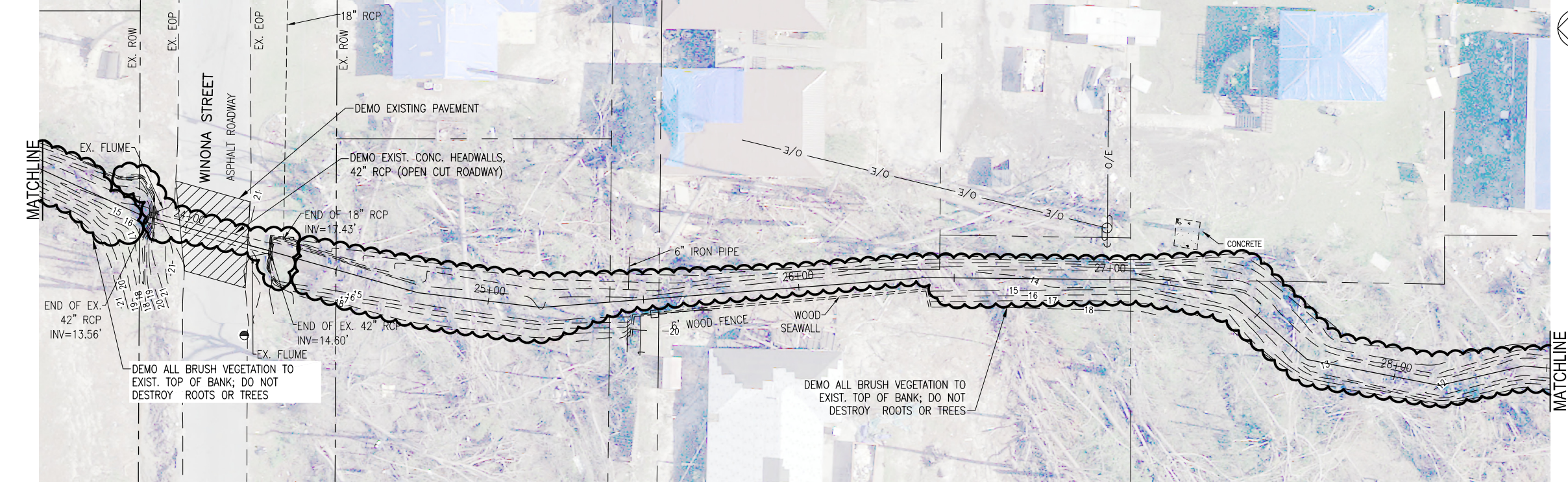
NO.	DATE	APPR.	REVISION/ACTION TAKEN
PROJECT NO: 27651.01	DESIGNED BY: GM	DRAWN BY: RGC	CHK'D BY: JCP
PROJ. MGR: JCP	DATE: MAR 2022	NOT RELEASED FOR CONSTRUCTION BY DATE	

**CONTROL PLAN**



NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO:	27651.01
DESIGNED BY:	GM
DRAWN BY:	RCG
CHK'D BY:	JCP
PROJ. MGR:	JCP
DATE:	MAR 2022



0 10' 20'  
SCALE: 1" = 20'

**EXISTING CONDITIONS  
& DEMOLITION PLAN**

PROJECT NO: 276551.01  
DESIGNED BY: GM  
DRAWN BY: RGG  
CHK'D BY: JCP  
PROJ. MGR: JCP  
DATE: MAY 2022

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	5/24/2022	JCP	Demo ex. pipe south of Olokee; prop. open ditch w/ endwall (as shown)

**CHERRY STREET  
DRAINAGE IMPROVEMENTS  
(JAN DR TO ROGERS  
POND)**

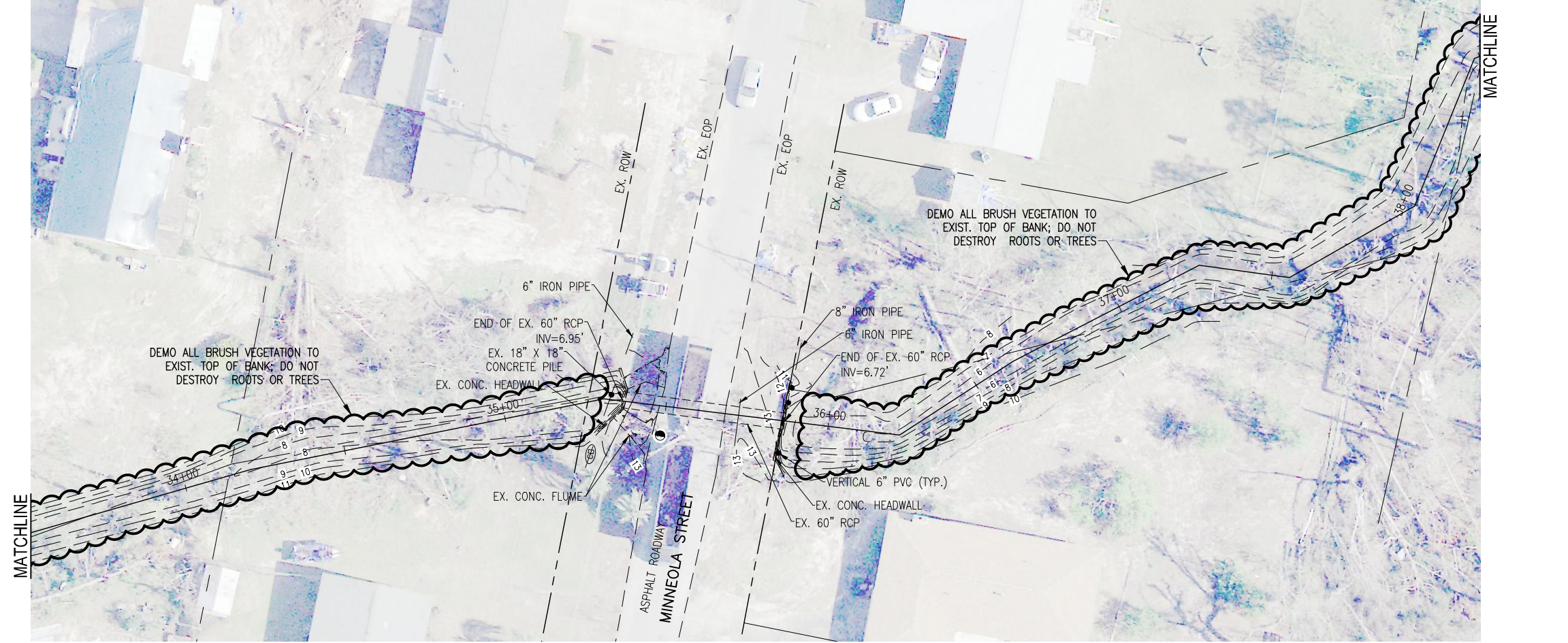
JERRY C. PETERMAN, P.E.  
Fl. Reg. Engineer #77540



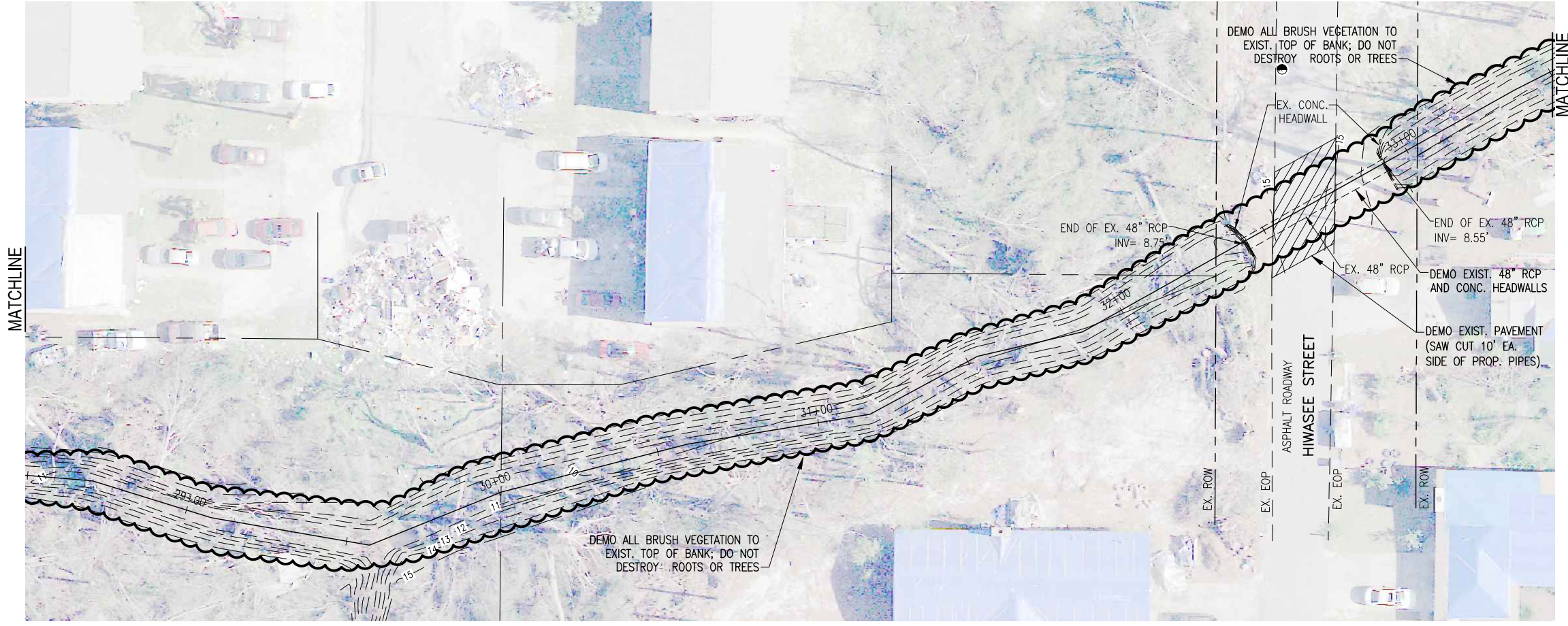
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0 10' 20'  
SCALE: 1" = 20'



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SCALE: 1" = 20'

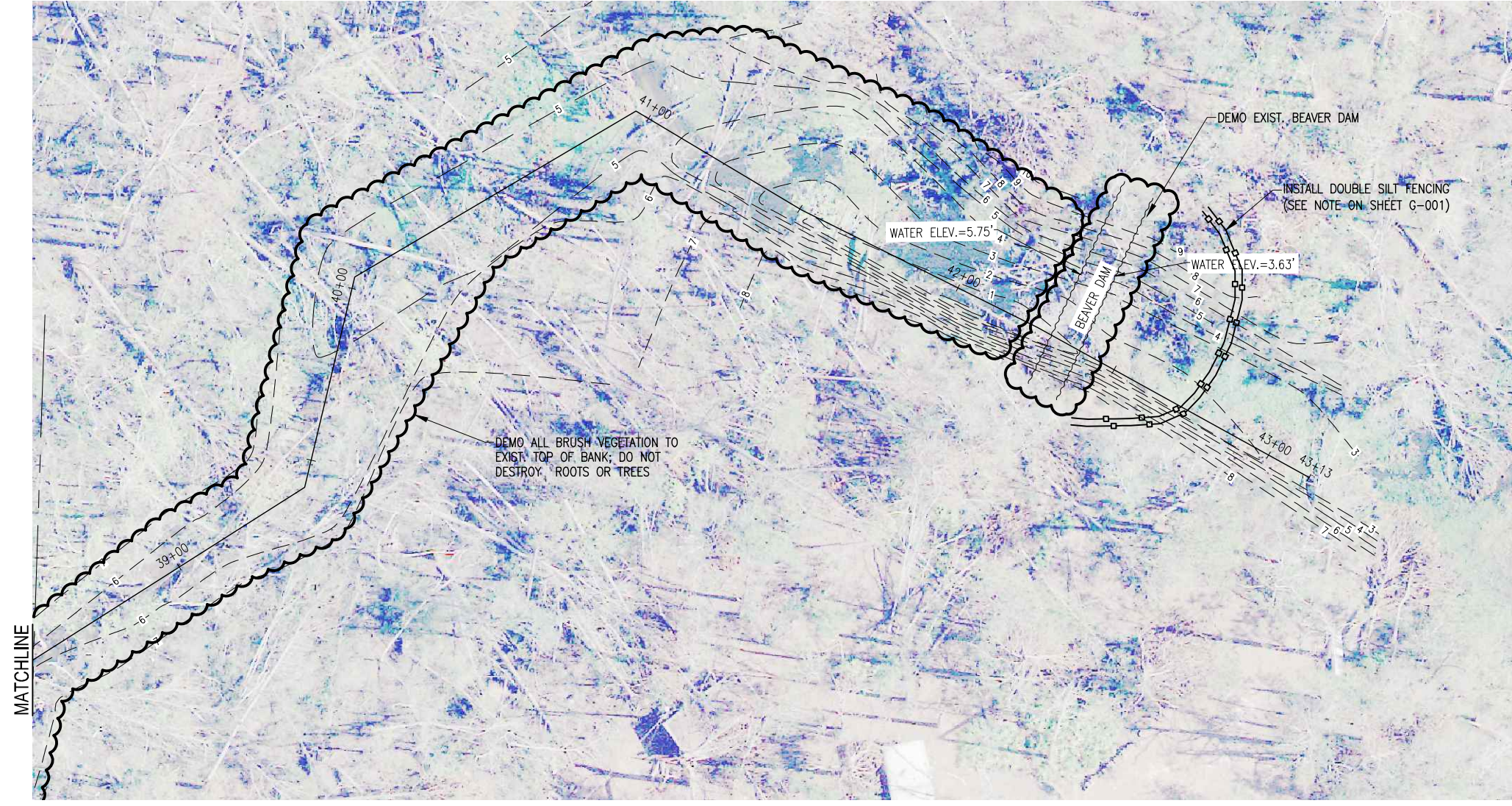
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DATE: MAR 2022				

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(JAN DR TO ROGERS  
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LETTY C. PETERMANN, DE  
FL. Reg. Engineer #77540

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**EXISTING CONDITIONS  
& DEMOLITION PLAN**

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27651.01				
DESIGNED BY: GM				
DRAWN BY: RGC				
CHK'D BY: JCP				
PROJ. MGR: JCP				
DATE: MAR 2022				

**C-104**

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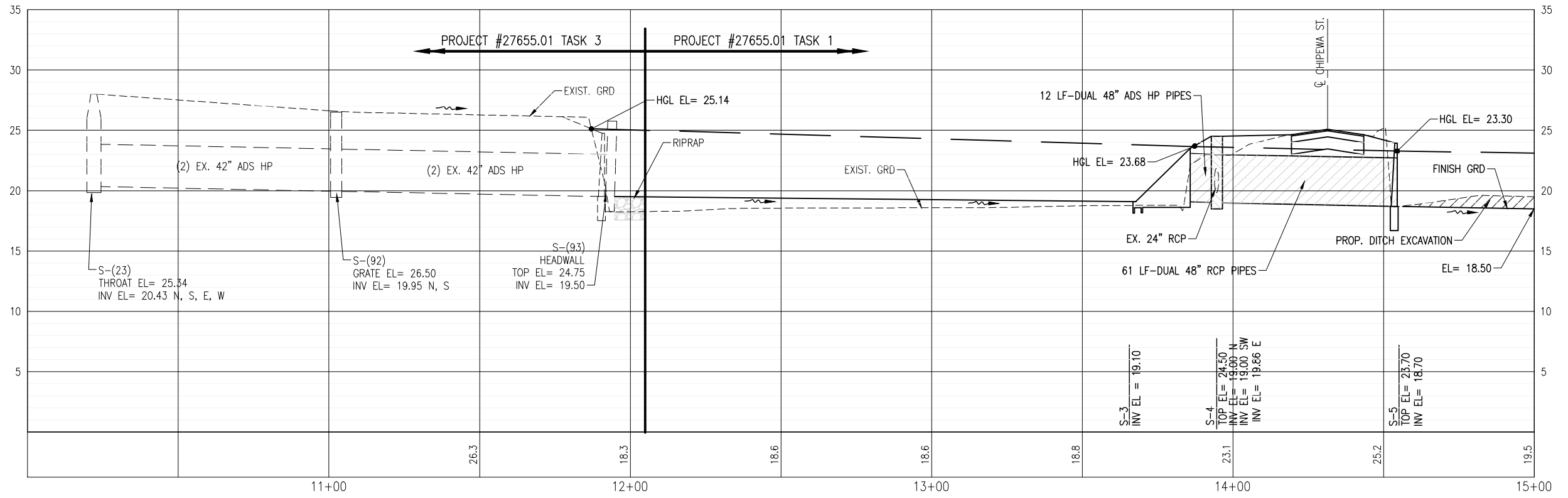
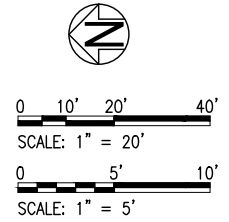
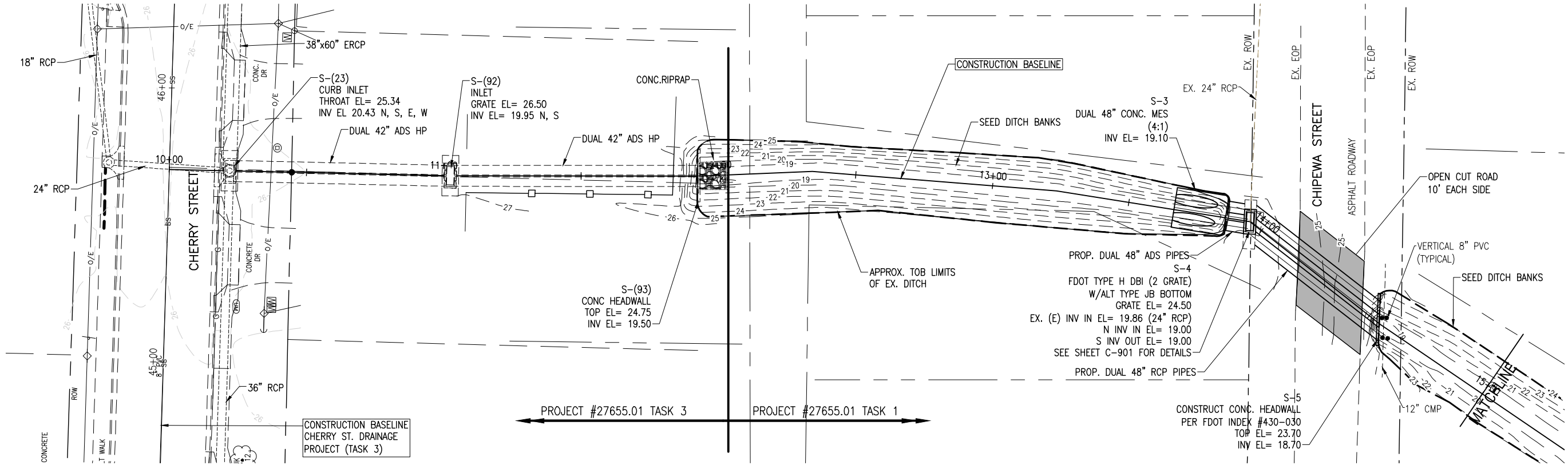
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JERRY C. PETERMAN, P.E.  
Fl. Reg. Engineer #77540

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E:\DWG\276\27655.01\Task 1 Cherry Ditch\C-105-111 PlanProf.dwg, Mar 24, 2022 - 7:28:44AM, rgeiger



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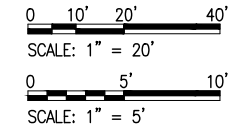
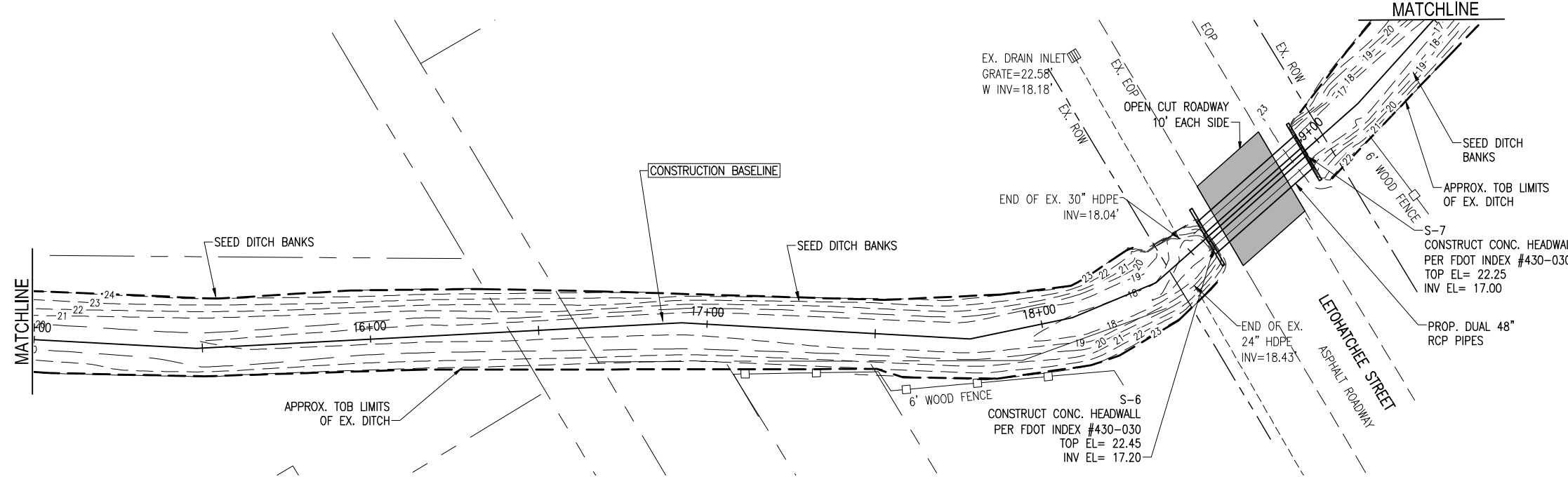
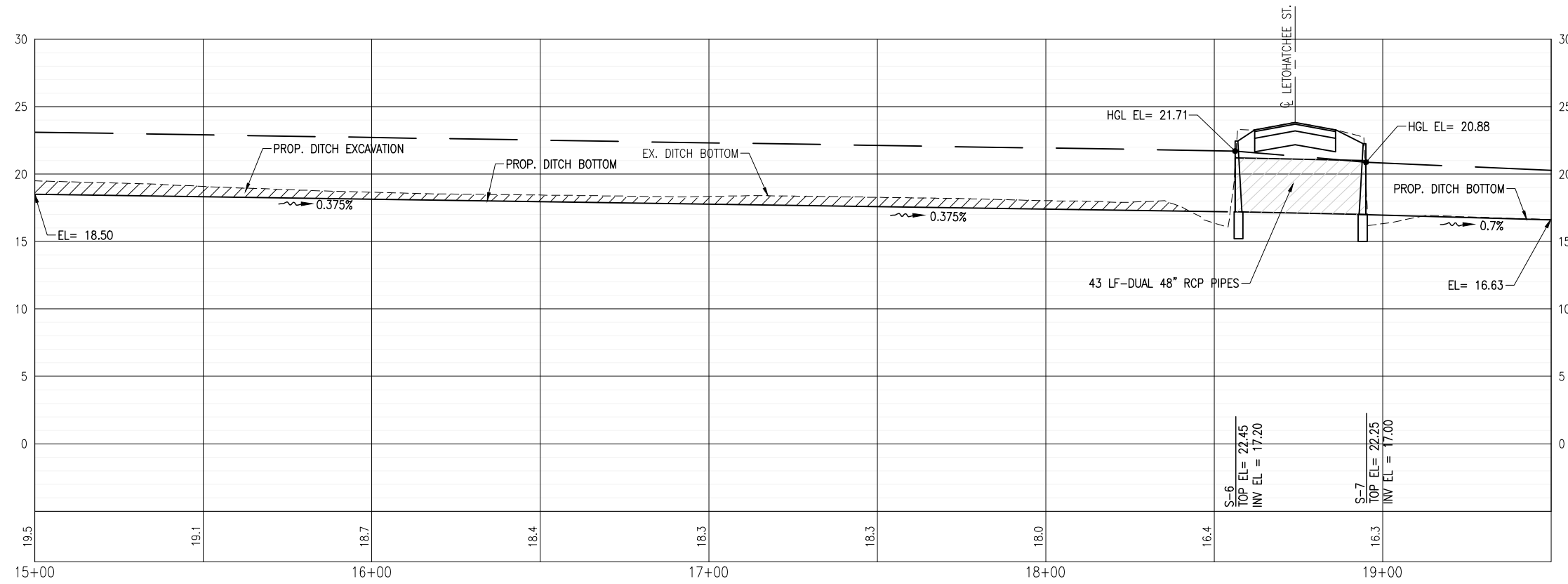
LETTY C. PETERMAN, P.E.  
FL. Reg. Engineer #77540

PROJECT NO.	DESIGNED BY	DRAWN BY	CHK'D BY	PROJ. MGR.	DATE	REVISION/ACTION	TAKEN
27651.01	GM	RCG	JCP	JCP	MAR 2022		
NOT RELEASED FOR CONSTRUCTION BY							

**PLAN AND PROFILE**

**C-105**





**CHERRY STREET  
DRAINAGE IMPROVEMENTS  
(JAN DR TO ROGERS  
POND)**

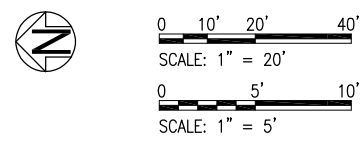
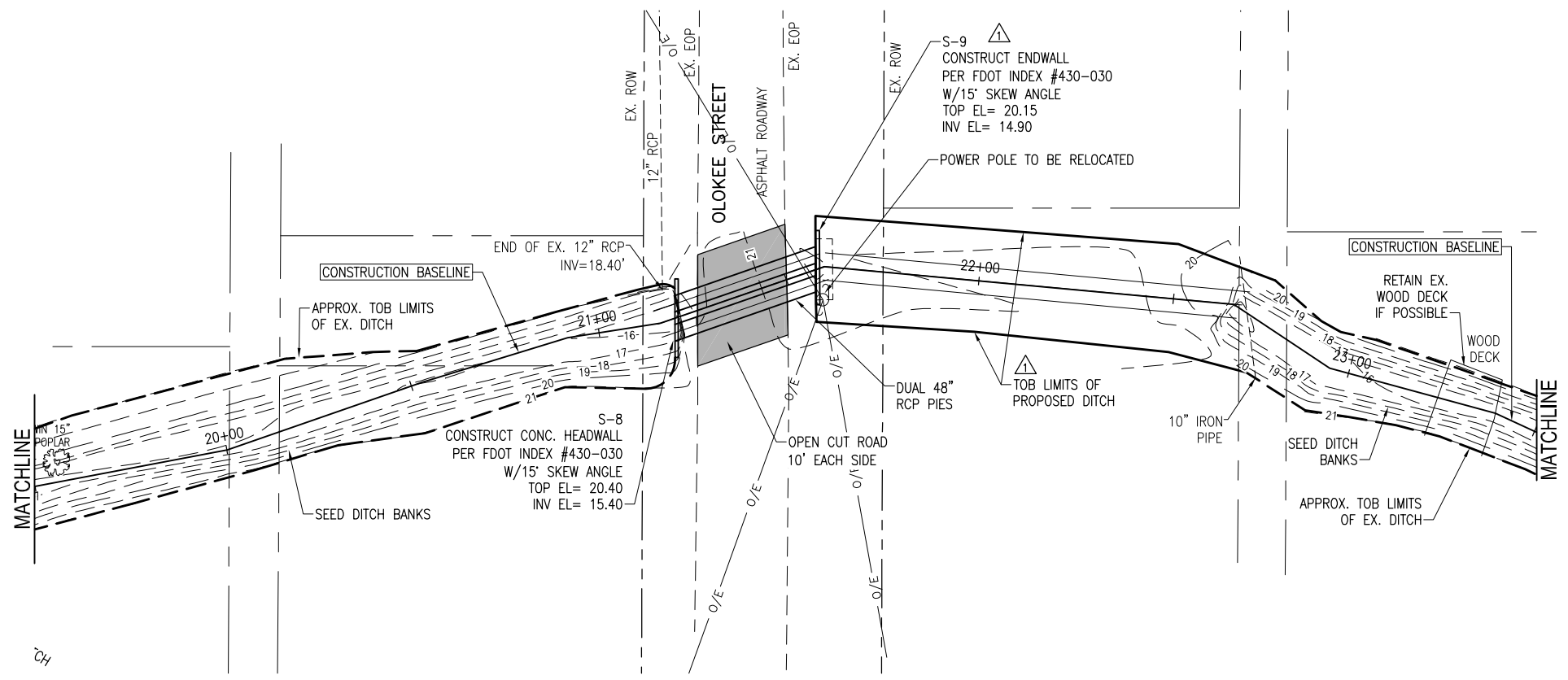
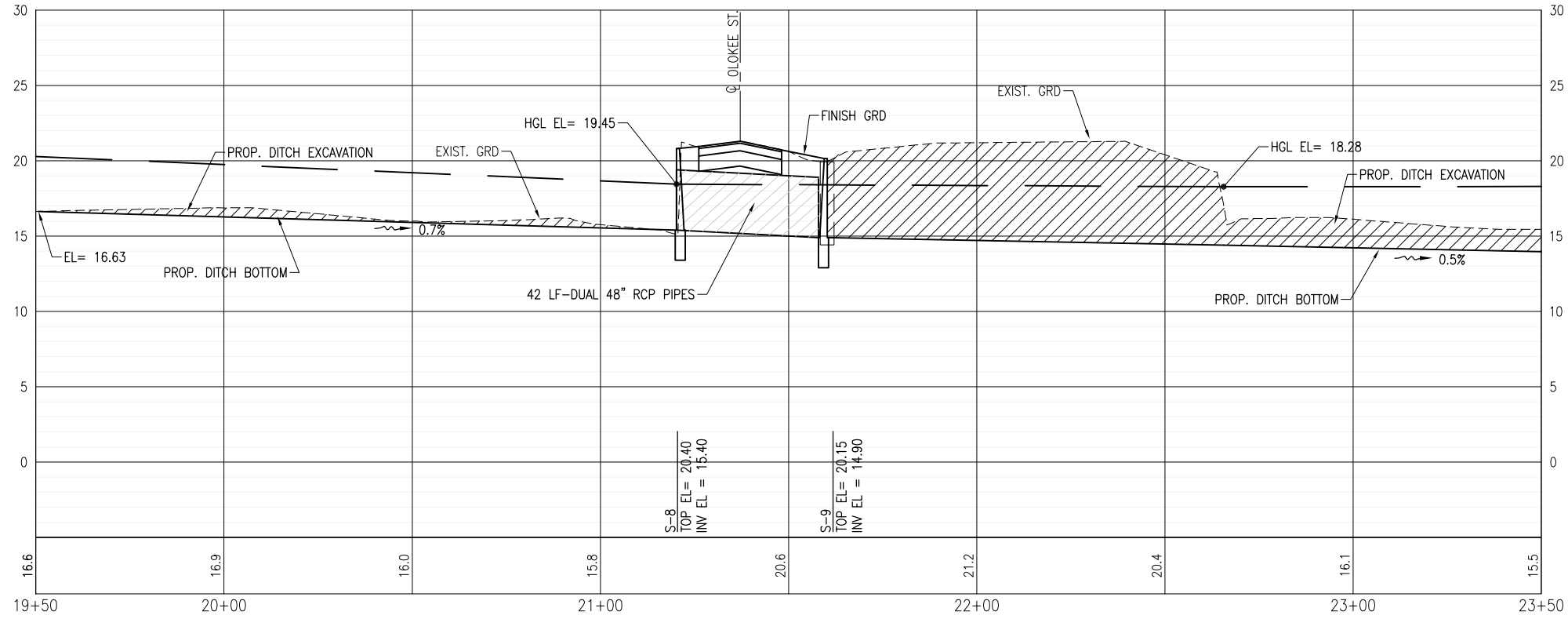
PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01				
DESIGNED BY: GM				
DRAWN BY: RGC				
CHK'D BY: JCP				
PROJ. MGR: JCP				
DATE: MAR 2022				

**PLAN AND PROFILE**

**BASKERVILLE-DONOVAN, INC.**  
ENGINEERING THE SOUTH SINCE 1927  
448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661  
ENGINEERING BUSINESS: EB-00000340  
Pensacola - Panama City Beach - Tallahassee - Mobile

**LETTY C. PETERMAN, P.E.**  
FL. Reg. Engineer #77540

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**PLAN AND PROFILE**

PROJECT NO:	276551.01	NO.	1	DATE	5/24/2022	APPR.	JCP	REVISION/ACTION TAKEN	Demo ex. pipe south of Olookee; prop. open ditch w/endwall (as shown)
DESIGNED BY:	GM								
DRAWN BY:	RG								
CHK'D BY:	JCP								
PROJ. MGR:	JCP								
DATE:	MAY 2022								
									RELEASED FOR CONSTRUCTION BY JCP DATE 5/24/2022

**CHERRY STREET  
DRAINAGE IMPROVEMENTS  
(JAN DR TO ROGERS  
POND)**

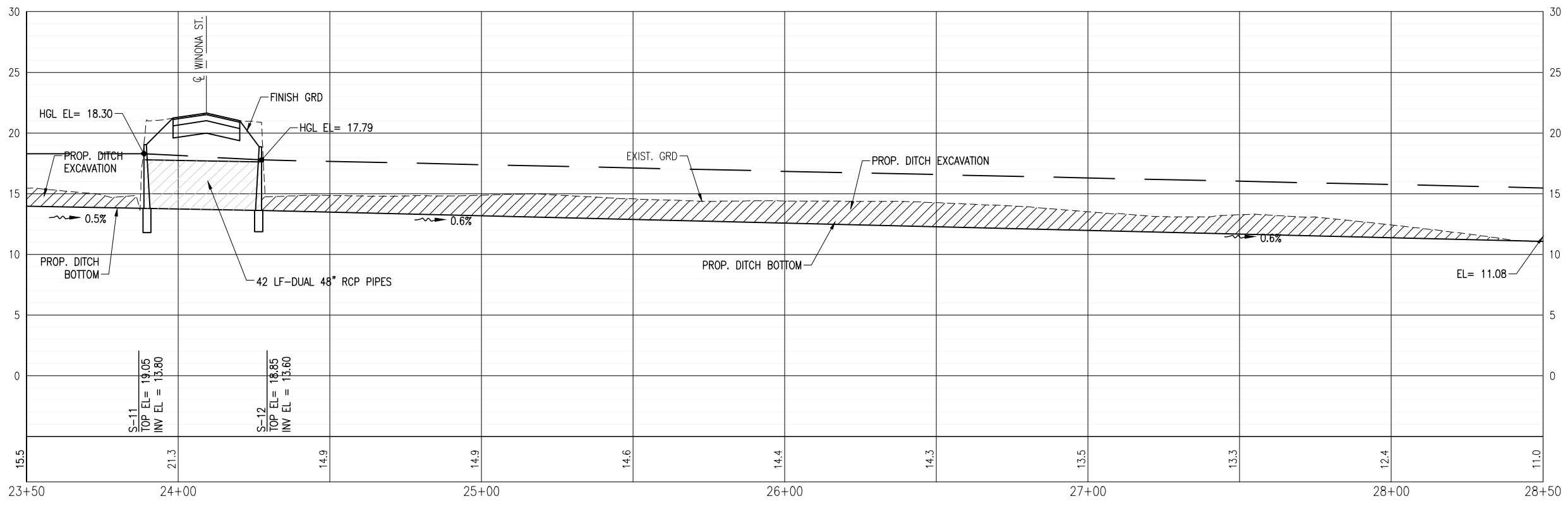
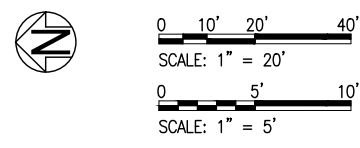
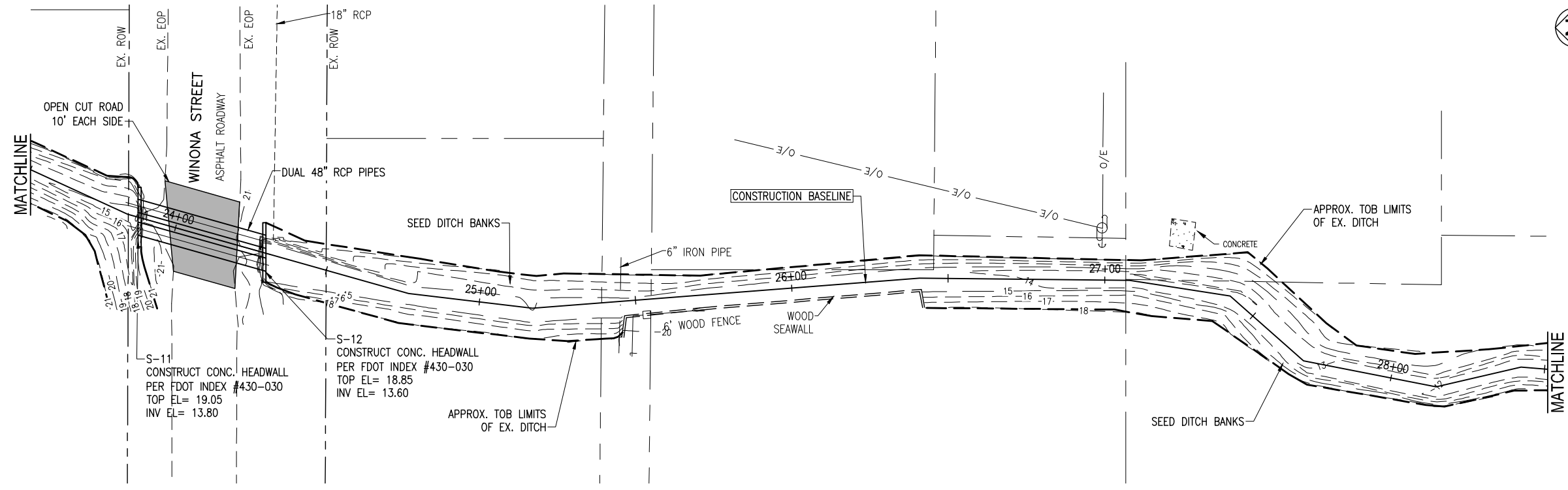
JEFFREY C. PETERMAN, P.E.  
P.E. Reg. Engineer #77540



**BASKERVILLE-DONOVAN, INC.**  
**ENGINEERING THE SOUTH SINCE 1927**

448 W. MAIN ST. PENSACOLA, FL 32502 (850)438-9861  
ENGINEERING BUSINESS: EB-0000340  
Pensacola - Panama City Beach - Tallahassee - Mobile

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**BASKERVILLE-DONOVAN, INC.**  
ENGINEERING THE SOUTH SINCE 1927

448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661  
ENGINEERING BUSINESS: EB-0000340

Pensacola - Panama City Beach - Tallahassee - Mobile

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**CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)**

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: 27651.01

DESIGNED BY: GM

DRAWN BY: RGC

CHK'D BY: JCP

PROJ. MGR: JCP

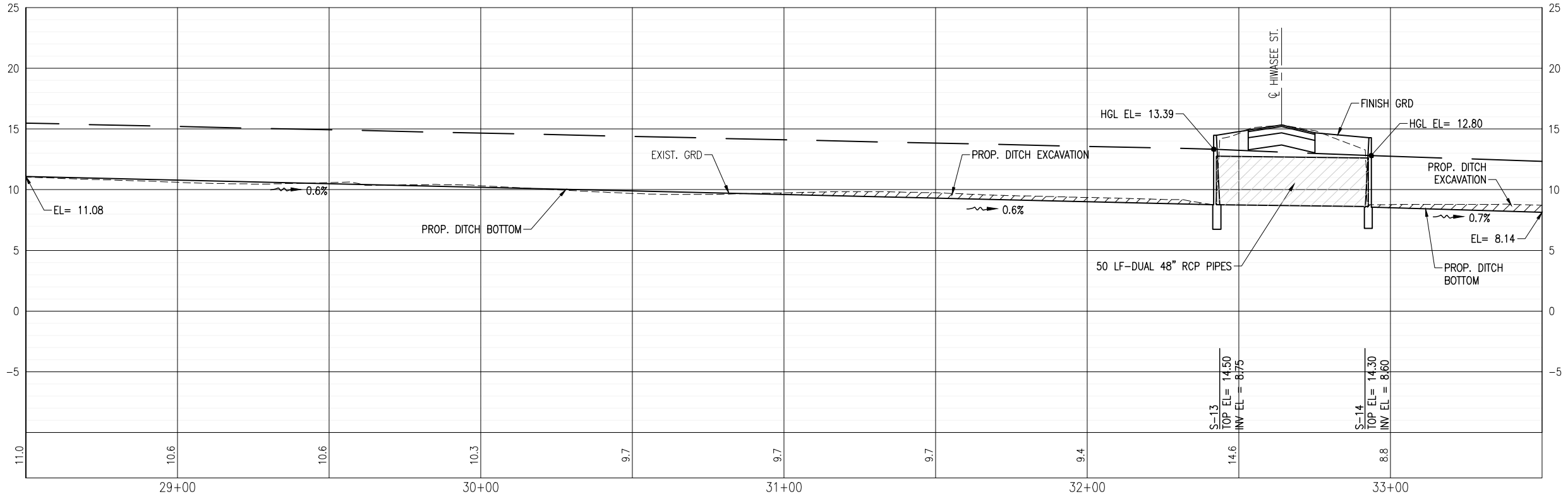
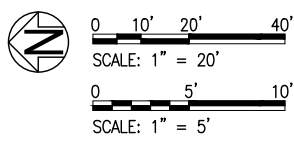
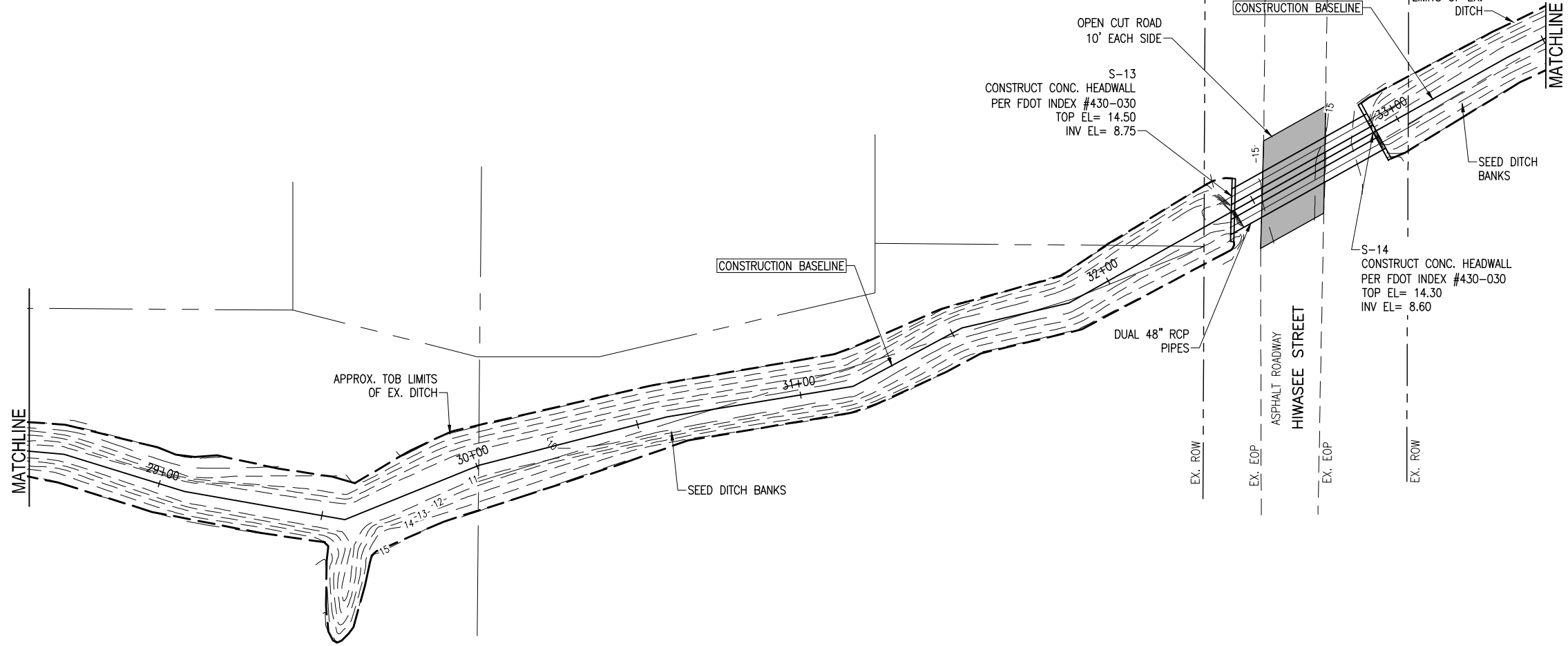
DATE: MAR 2022

NOT RELEASED FOR CONSTRUCTION BY \_\_\_\_\_ DATE \_\_\_\_\_

**PLAN AND PROFILE**

**C-108**

E:\DWC\276\27655.01\Task 1 Cherry Ditch\C-105-111 PlanProf.dwg, Mar 24, 2022 - 7:28:59AM, rgeiger



**BASKERVILLE-DONOVAN, INC.**  
**ENGINEERING THE SOUTH SINCE 1927**  
 448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661  
 ENGINEERING BUSINESS: EB-0000340  
 Pensacola - Panama City Beach - Tallahassee - Mobile

LETTY C. PETERMANN, P.E.  
 P.E. Reg. Engineer #77540

**CHERRY STREET  
 DRAINAGE IMPROVEMENTS  
 (JAN DR TO ROGERS  
 POND)**

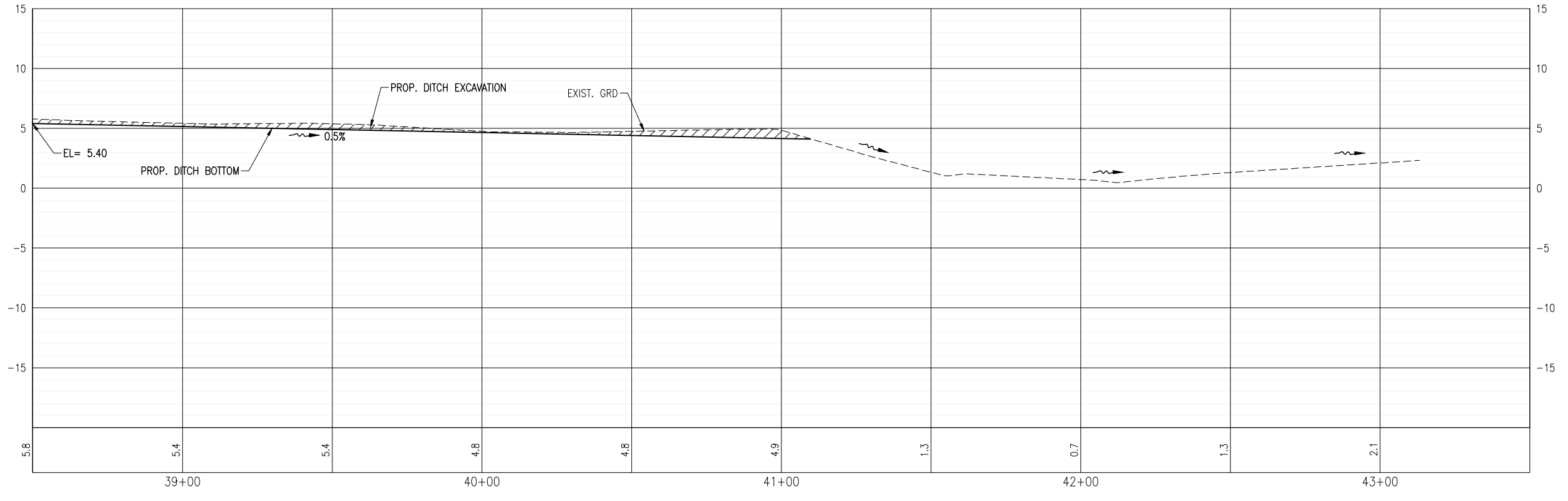
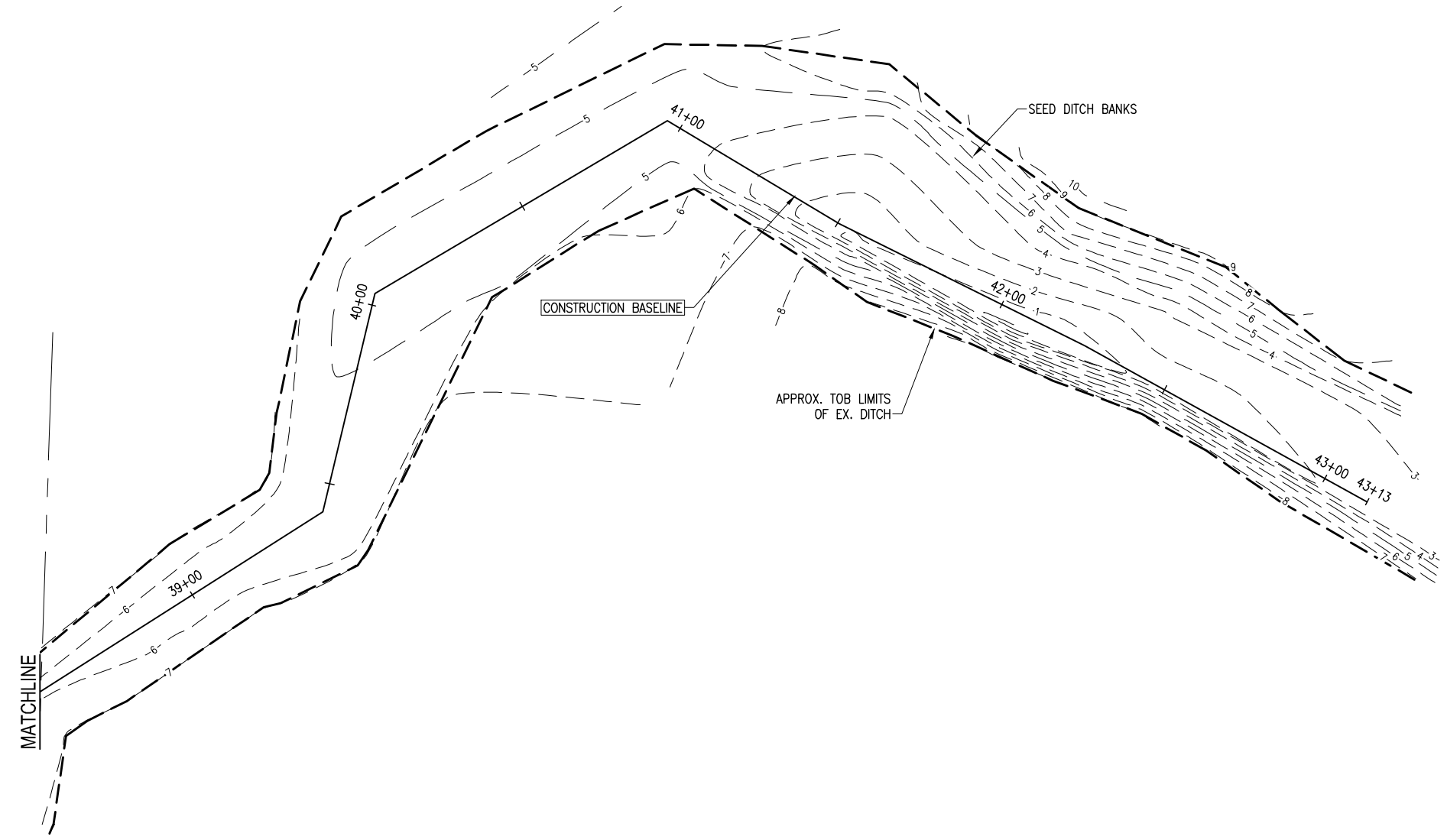
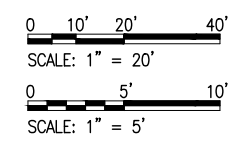
NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: **27651.01**  
 DESIGNED BY: GM  
 DRAWN BY: RGC  
 CHK'D BY: JCP  
 PROJ. MGR: JCP  
 DATE: MAR 2022

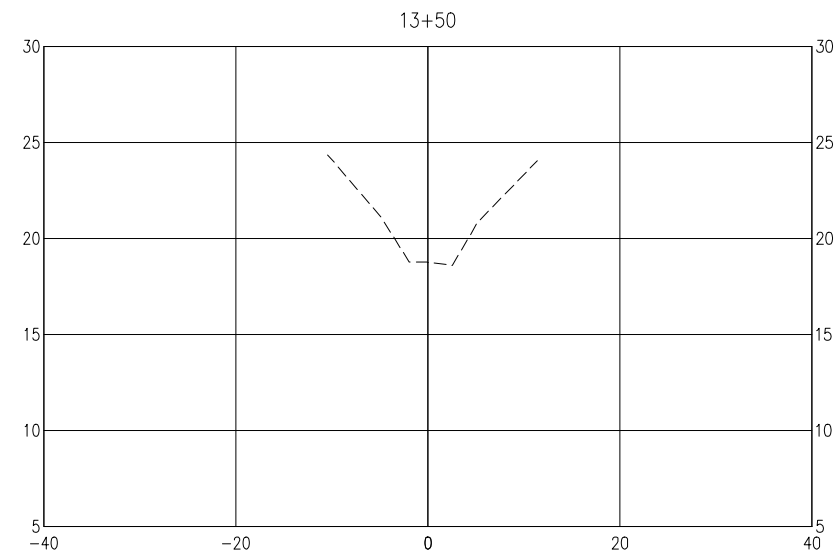
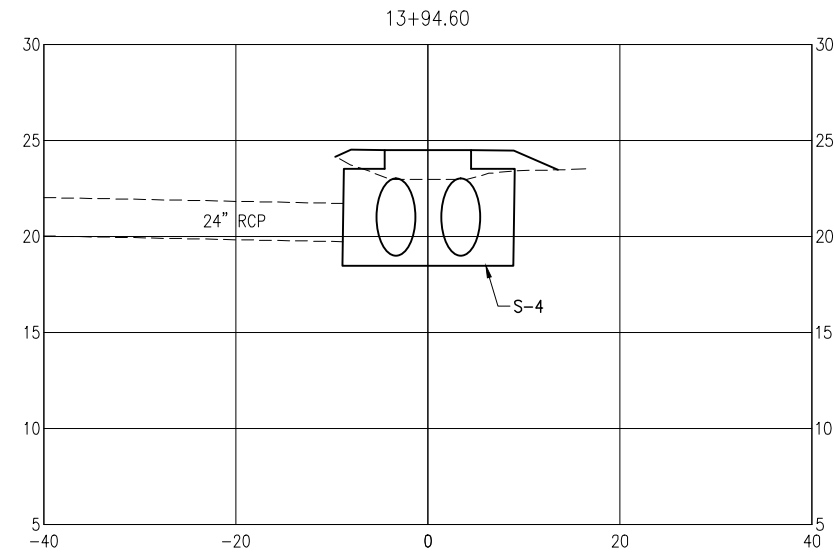
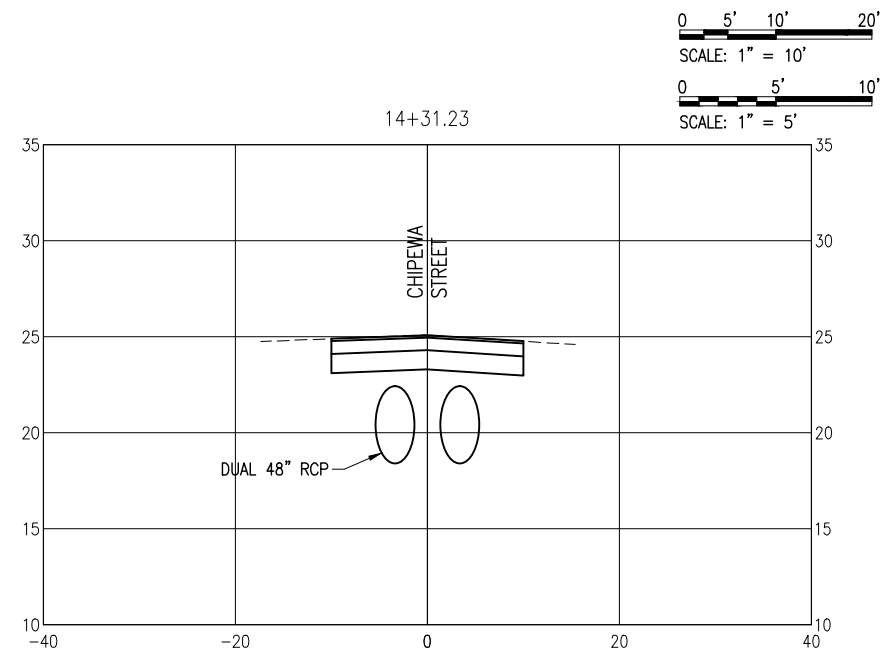
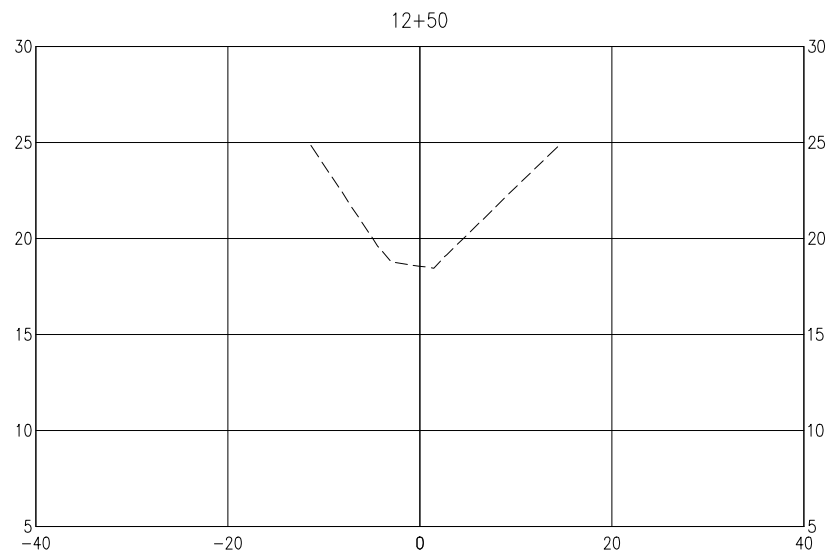
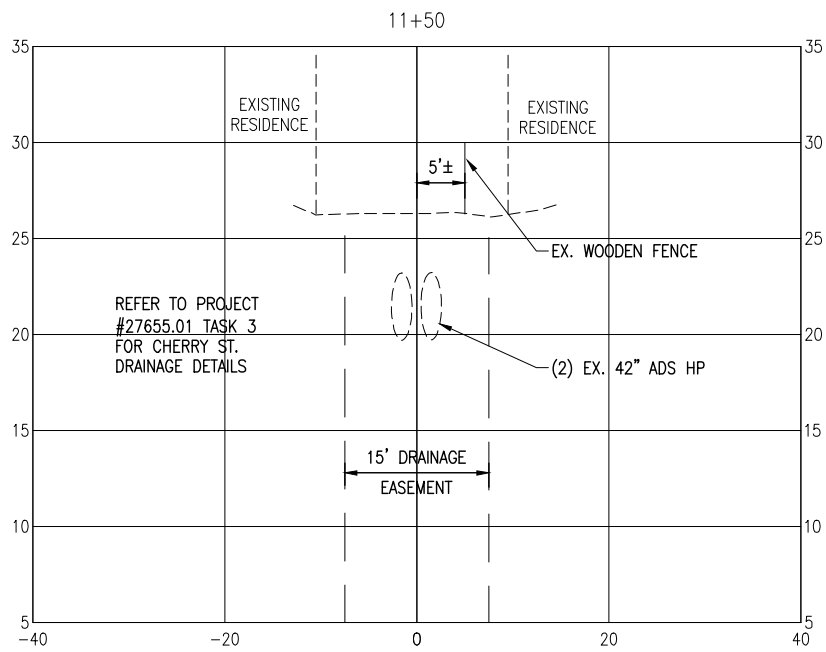
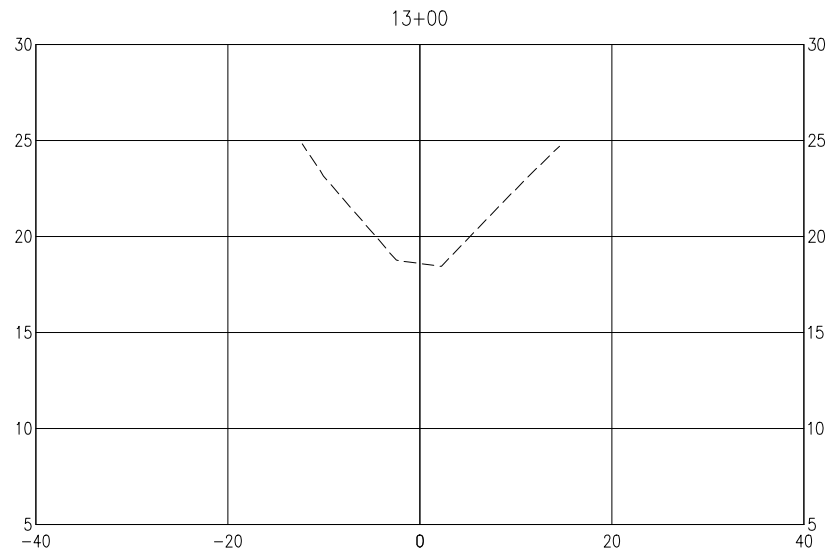
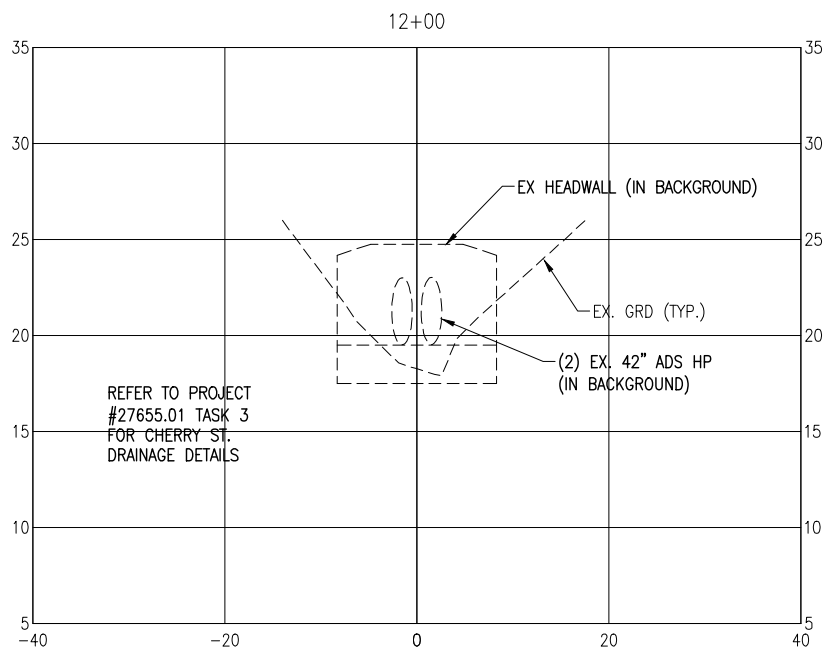
**PLAN AND PROFILE**

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<b>PLAN AND PROFILE</b>		<b>CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)</b>		<b>BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927</b>	
PROJECT NO: <b>27651.01</b>		NO.		REVISION/ACTION TAKEN	
DESIGNED BY: GM		DATE		APPR.	
DRAWN BY: RGC		NO.		REVISION/ACTION TAKEN	
CHK'D BY: JCP		DATE		APPR.	
PROJ. MGR: JCP		NO.		REVISION/ACTION TAKEN	
DATE: MAR 2022		DATE		APPR.	
NOT RELEASED FOR CONSTRUCTION BY		DATE		APPR.	
<b>C-111</b>		LETTY C. PETERMAN, P.E. Fl. Reg. Engineer #77540		Pensacola - Panama City Beach - Tallahassee - Mobile This drawing is the property of BASKERVILLE-DONOVAN, INC. and is not to be reproduced in whole or in part. It is not to be used on any other project and is to be returned upon request.	



**CHERRY STREET  
 DRAINAGE IMPROVEMENTS  
 (JAN DR TO ROGERS  
 POND)**

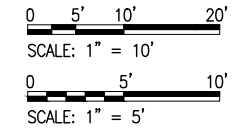
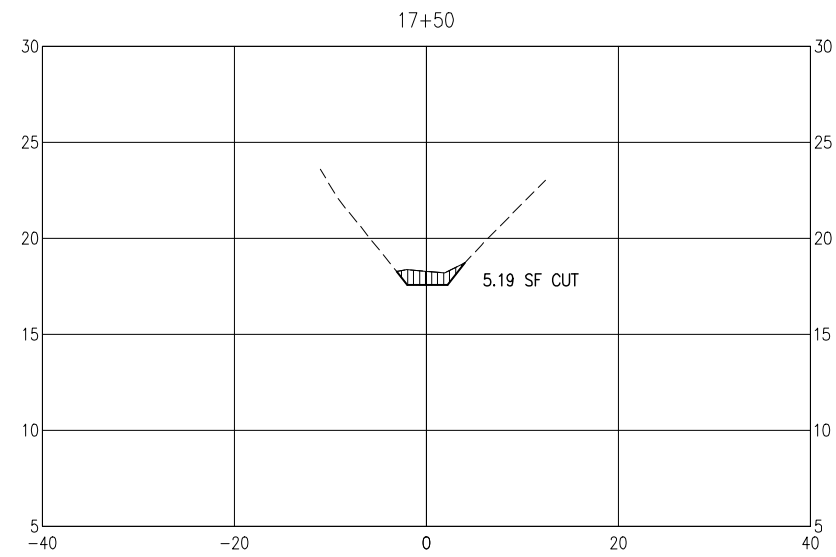
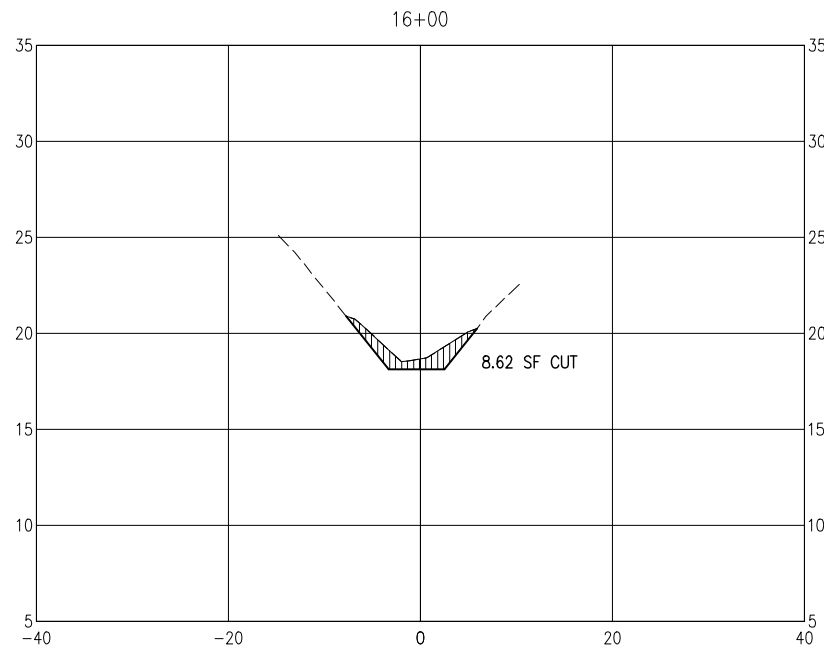
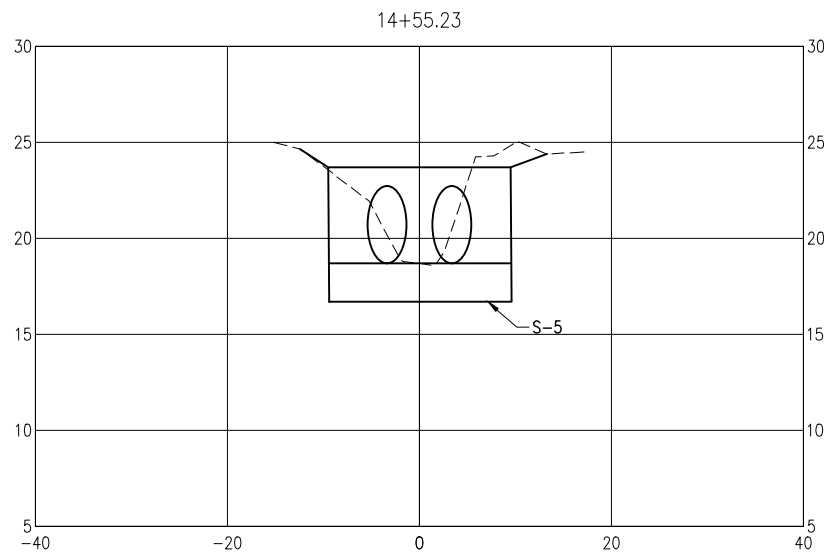
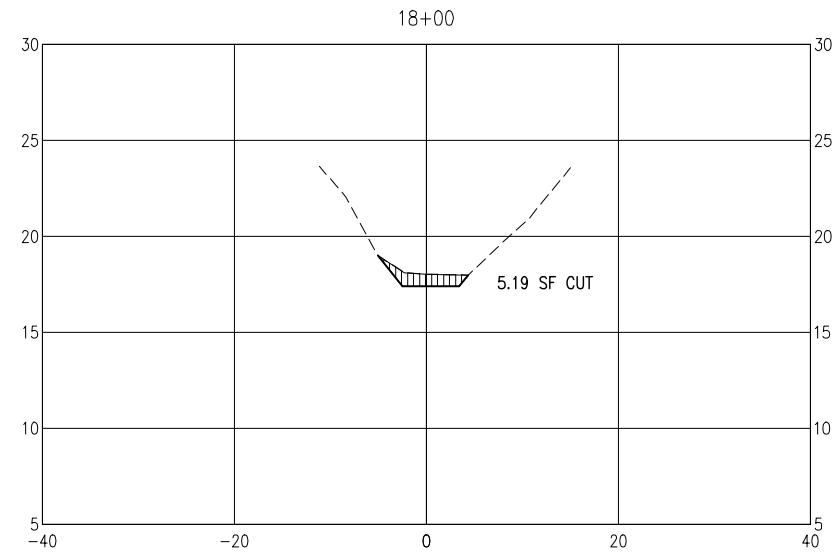
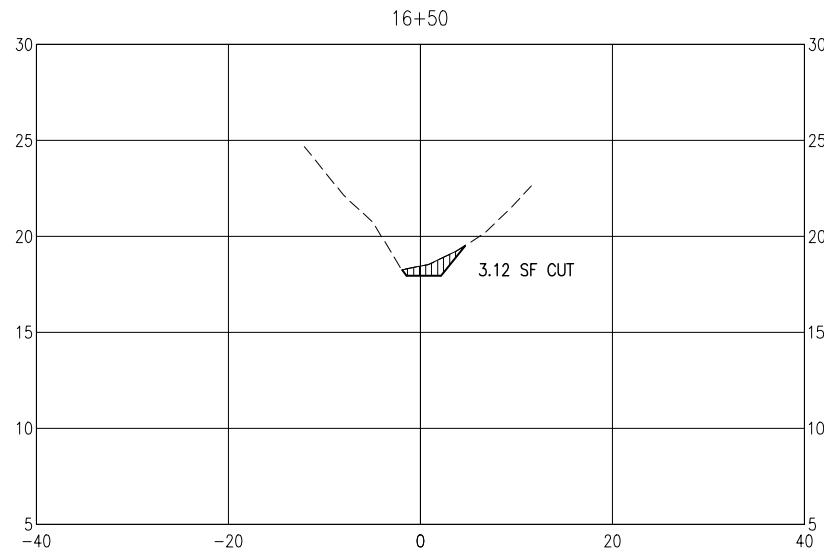
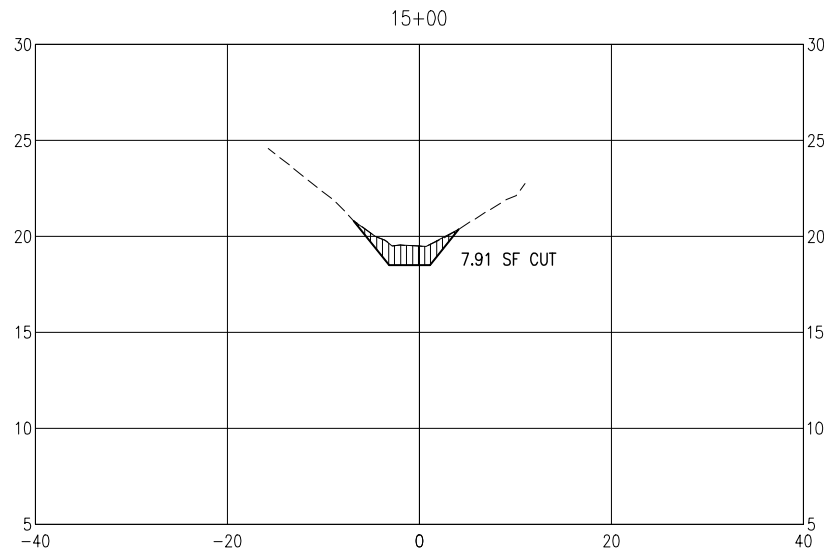
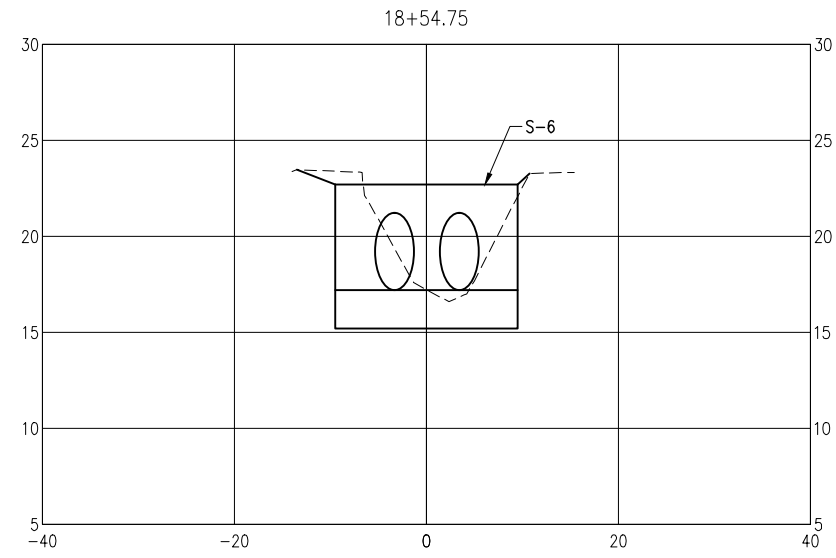
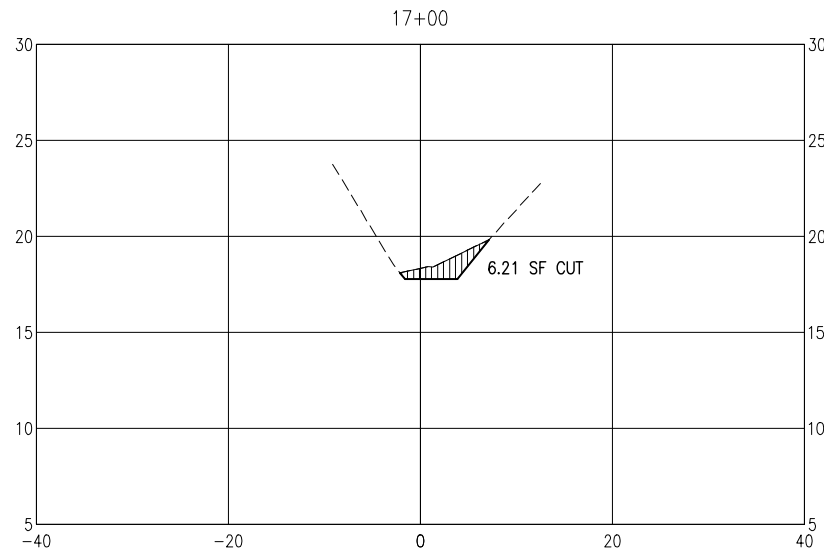
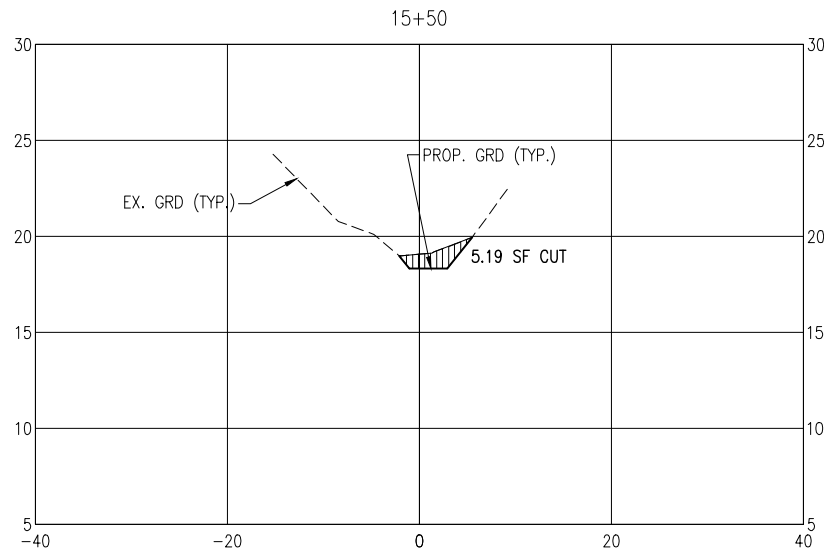
NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO: 27651.01  
 DESIGNED BY: GM  
 DRAWN BY: RGC  
 CHK'D BY: JCP  
 PROJ. MGR: JCP  
 DATE: MAR 2022

NOT RELEASED FOR CONSTRUCTION BY DATE

**CROSS-SECTIONS**

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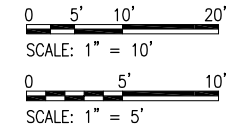
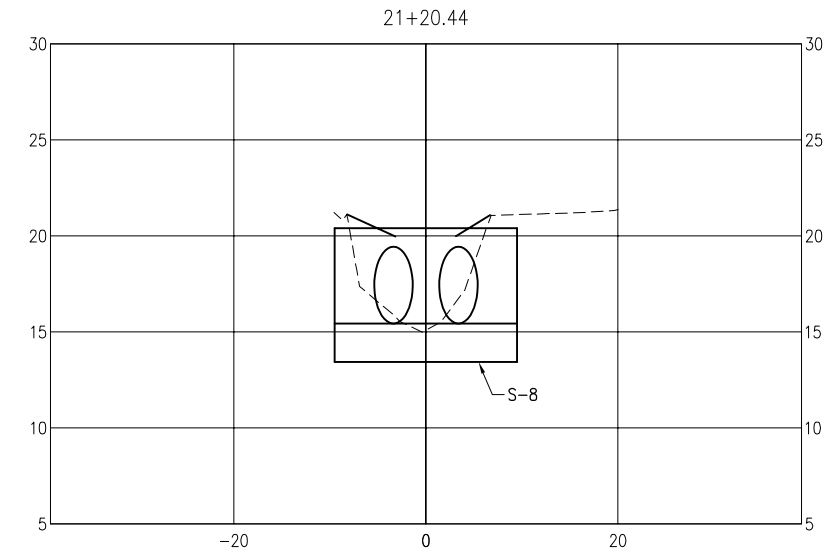
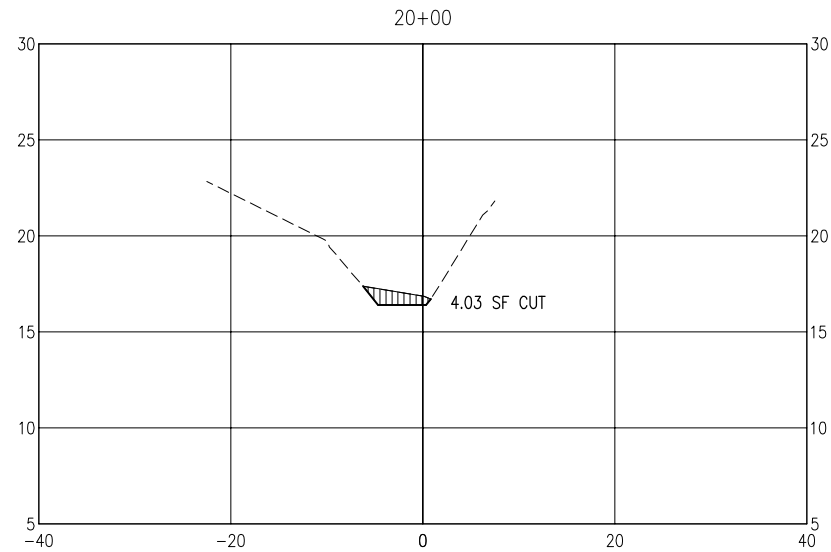
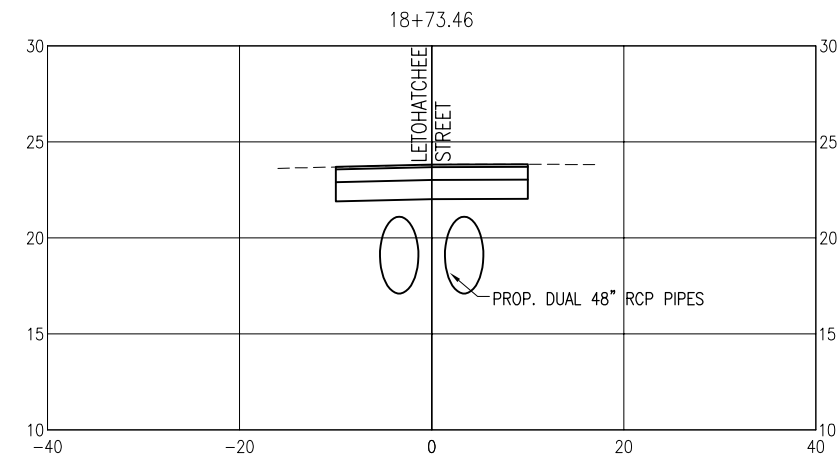
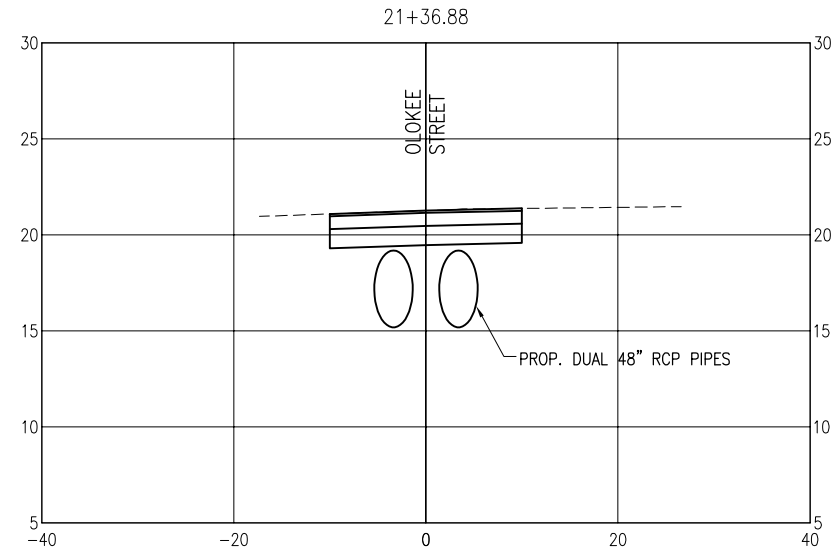
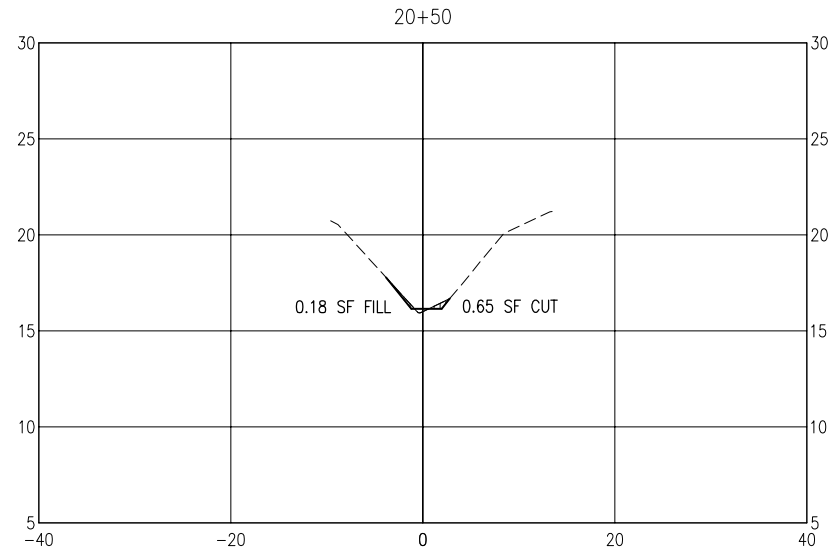
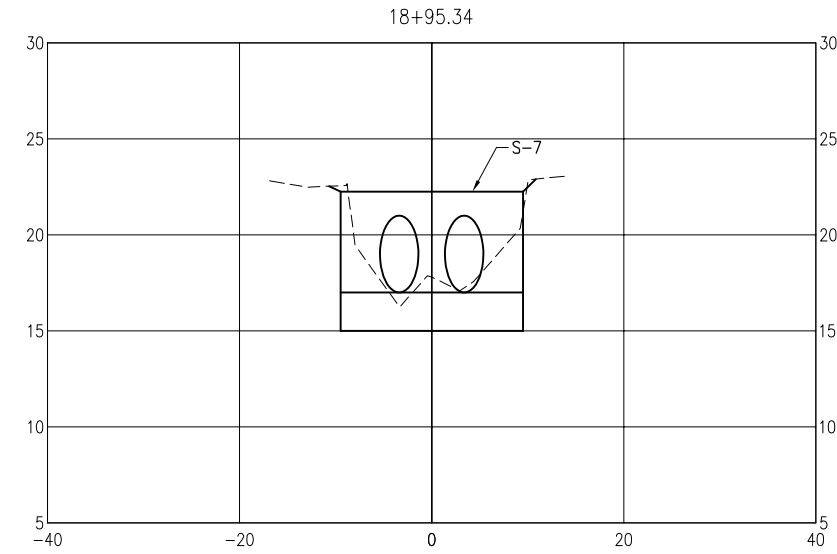
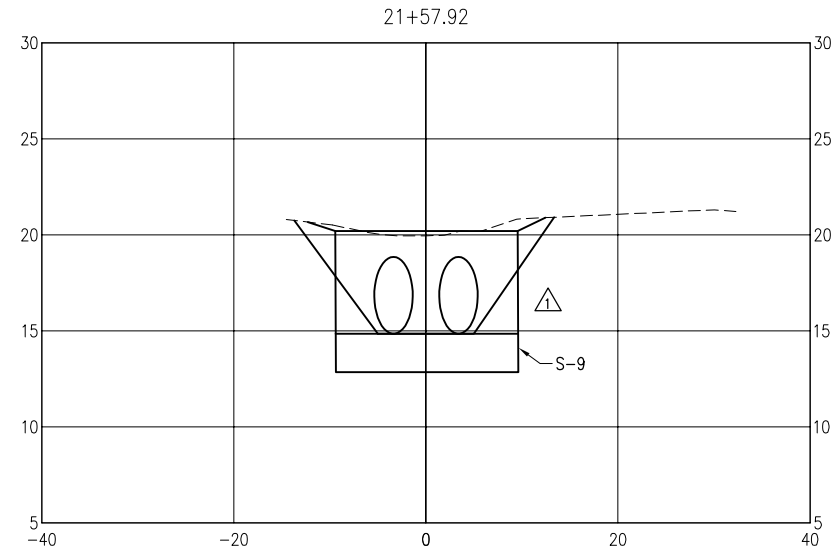
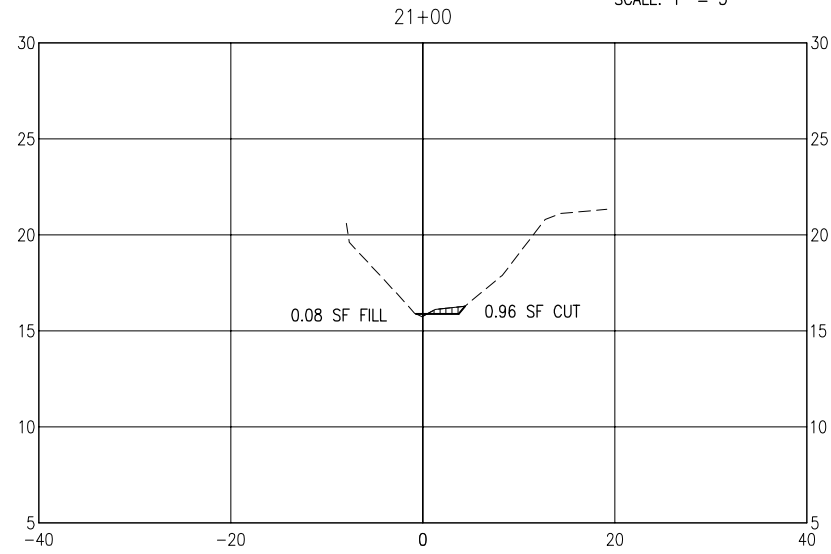
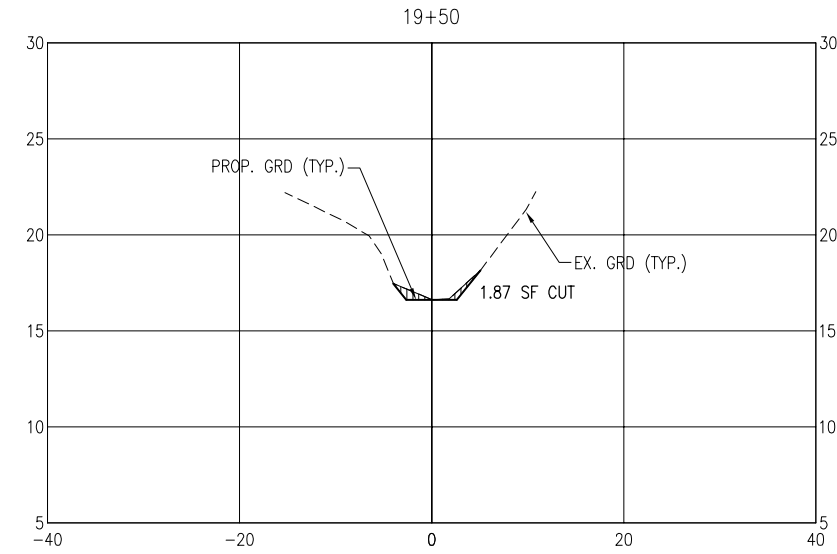
**CHERRY STREET  
 DRAINAGE IMPROVEMENTS  
 (JAN DR TO ROGERS  
 POND)**

NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO:	27651.01
DESIGNED BY:	GM
DRAWN BY:	RCG
CHK'D BY:	JCP
PROJ. MGR:	JCP
DATE:	MAR 2022

**CROSS-SECTIONS**



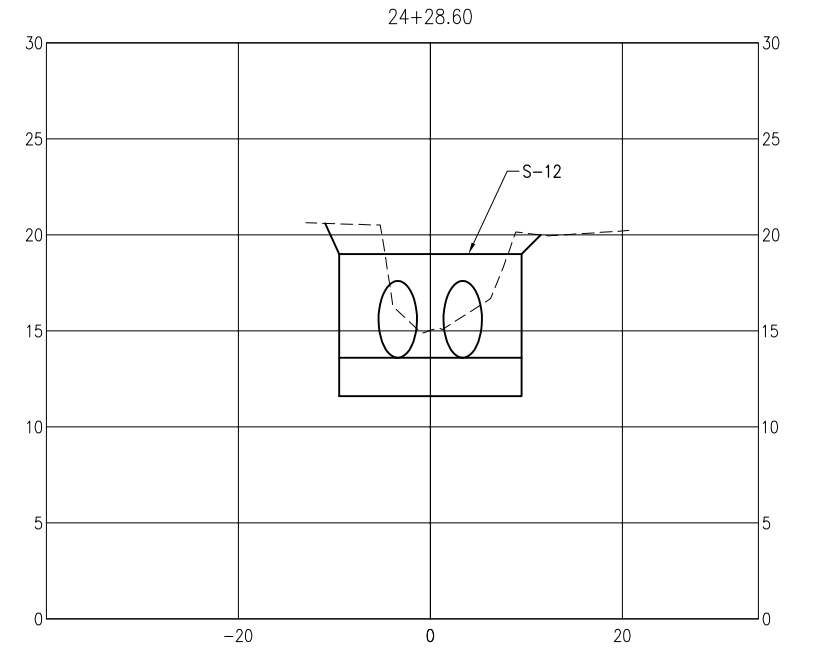
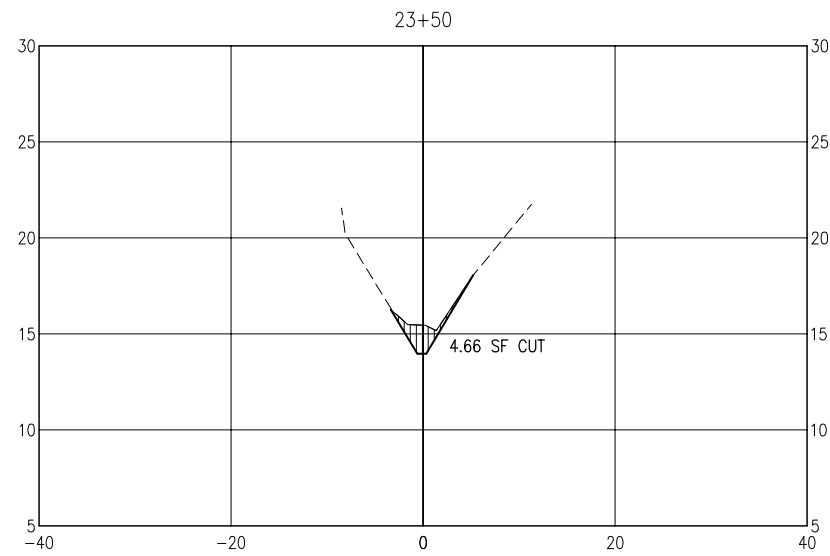
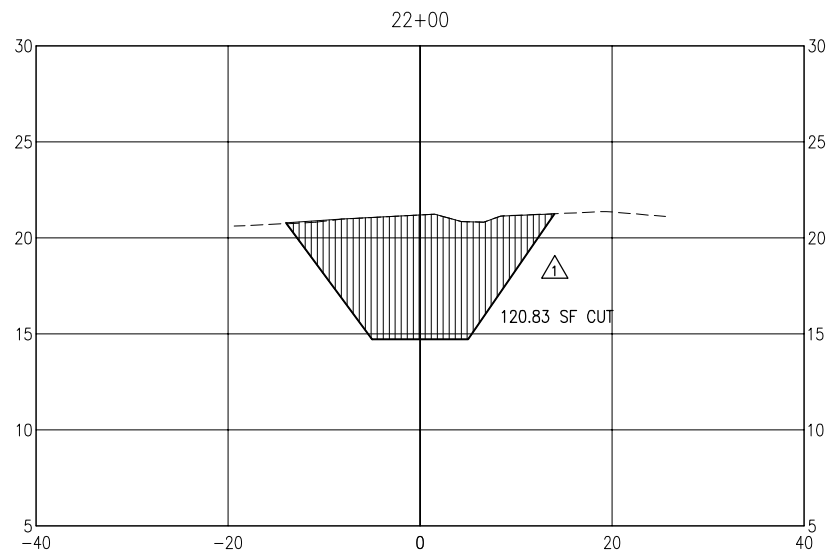
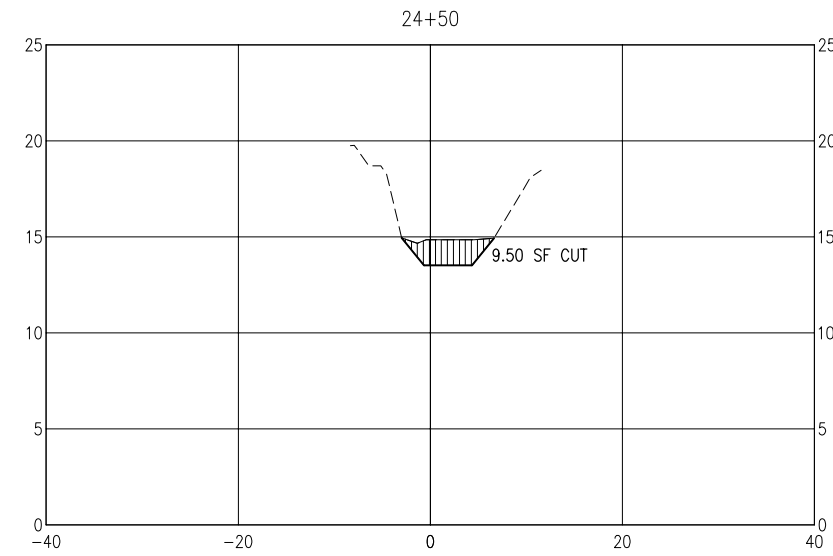
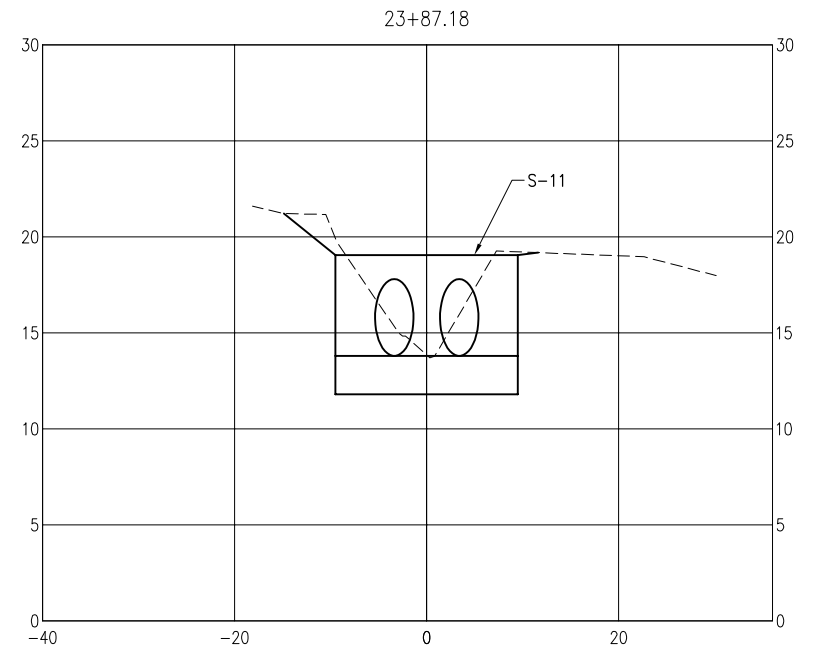
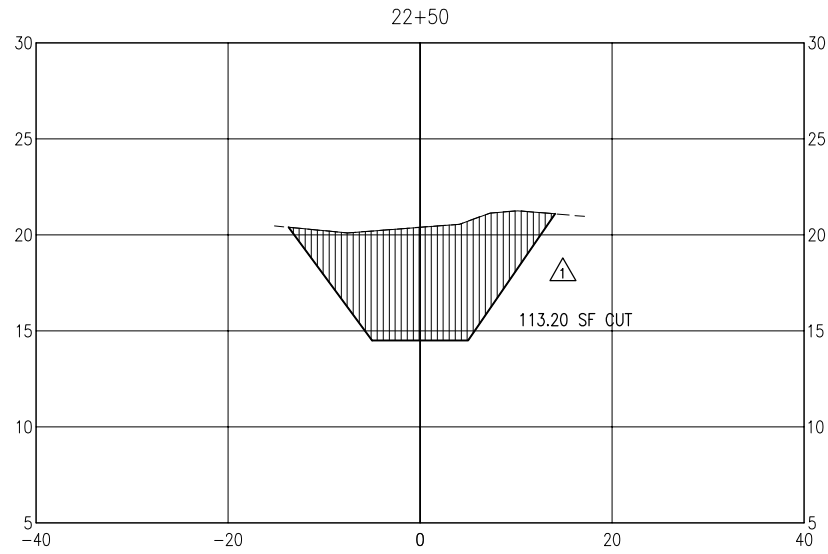
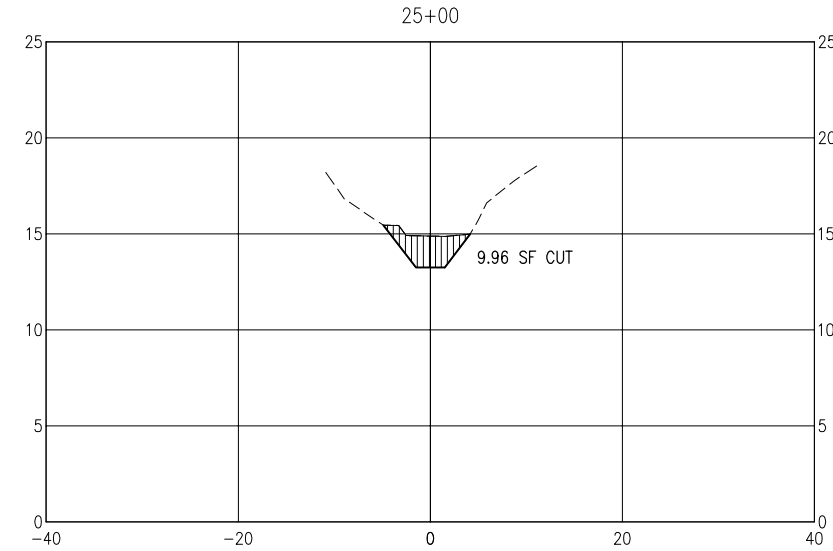
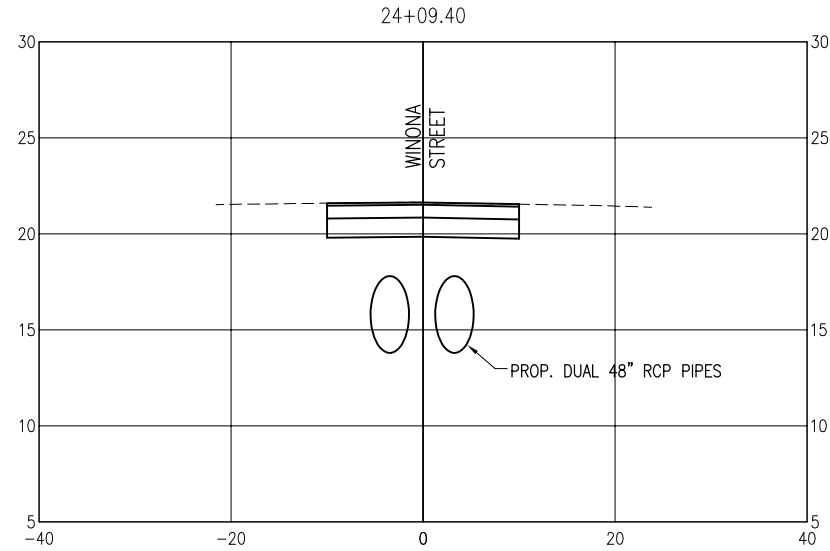
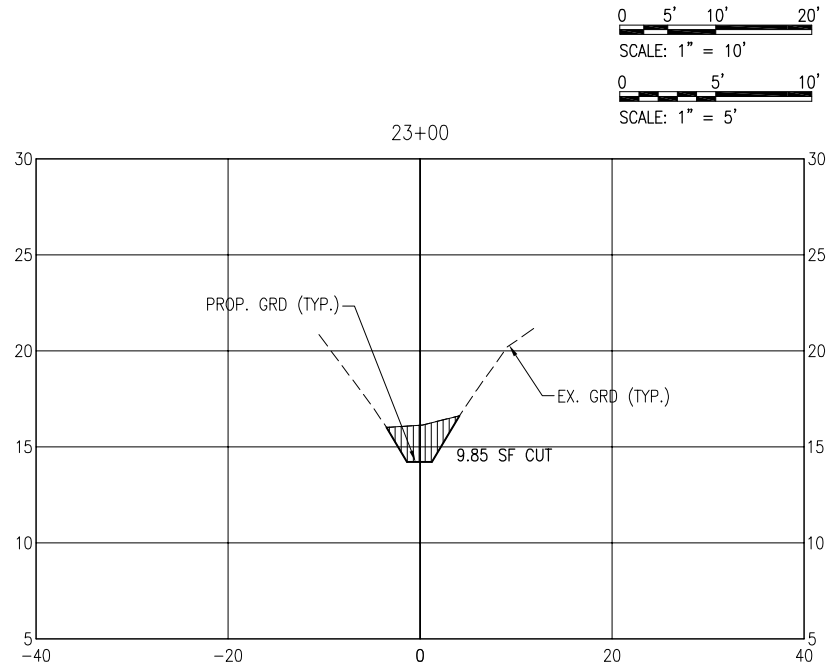


**CHERRY STREET  
 DRAINAGE IMPROVEMENTS  
 (JAN DR TO ROGERS  
 POND)**

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	5/24/2022	JCP	Demo ex. pipe south of Olokee; prop. open ditch w/ endwall (as shown)

PROJECT NO:	276551.01
DESIGNED BY:	GM
DRAWN BY:	ROG
CHK'D BY:	JCP
PROJ. MGR:	JCP
DATE:	MAY 2022

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JERRY C. PETERMAN, P.E.  
Fl. Reg. Engineer #77540

**CHERRY STREET  
DRAINAGE IMPROVEMENTS  
(JAN DR TO ROGERS  
POND)**

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	5/24/2022	JCP	Demo ex. pipe south of ditches; prop. open ditch w/ endwall (as shown)

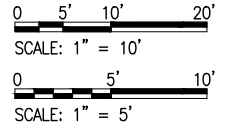
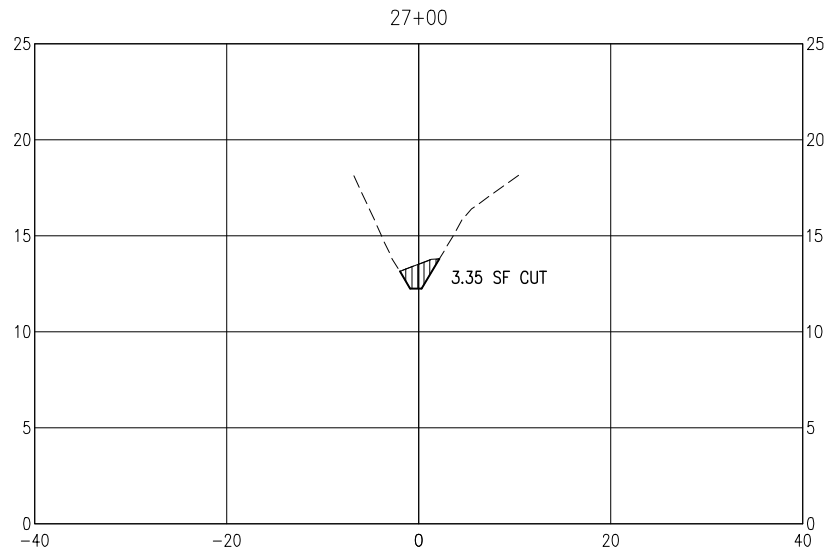
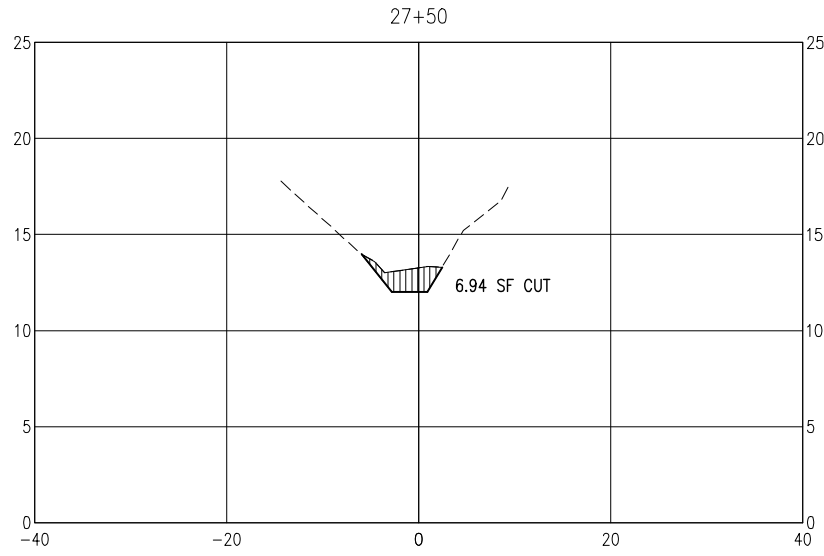
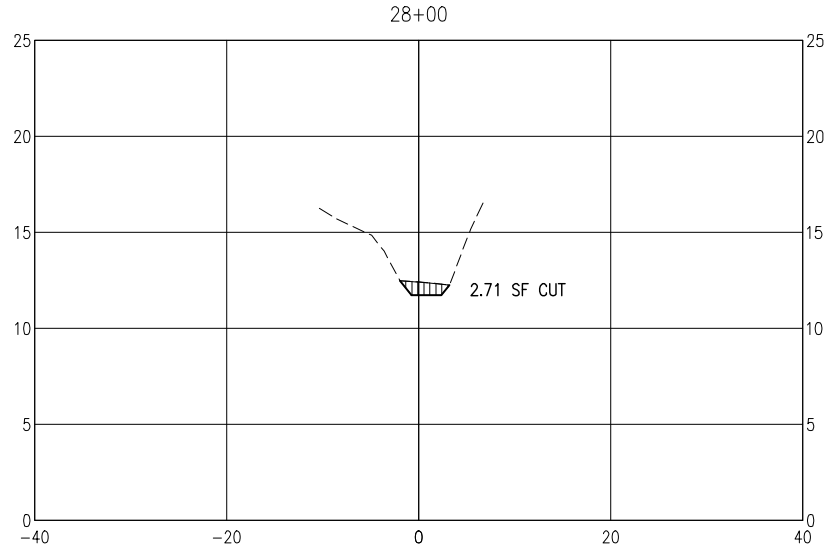
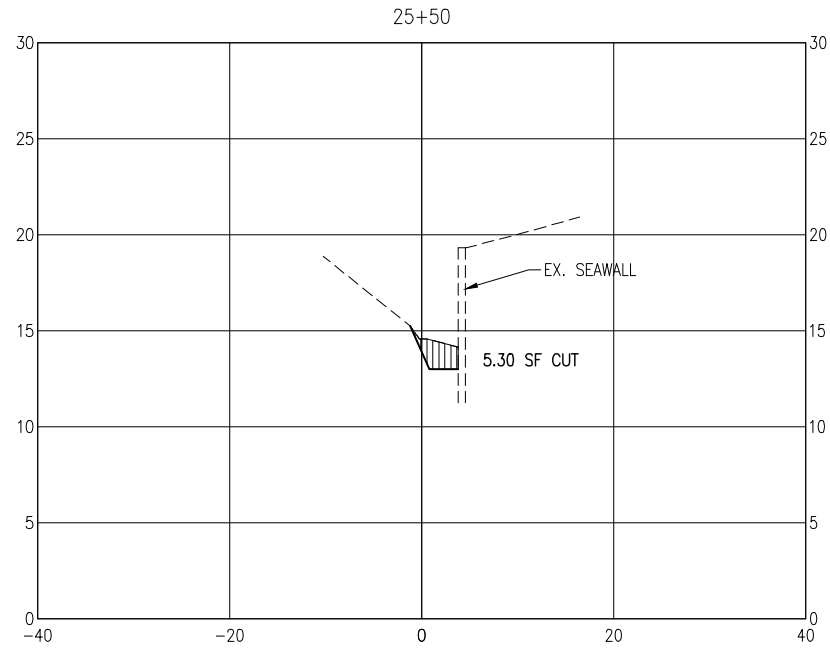
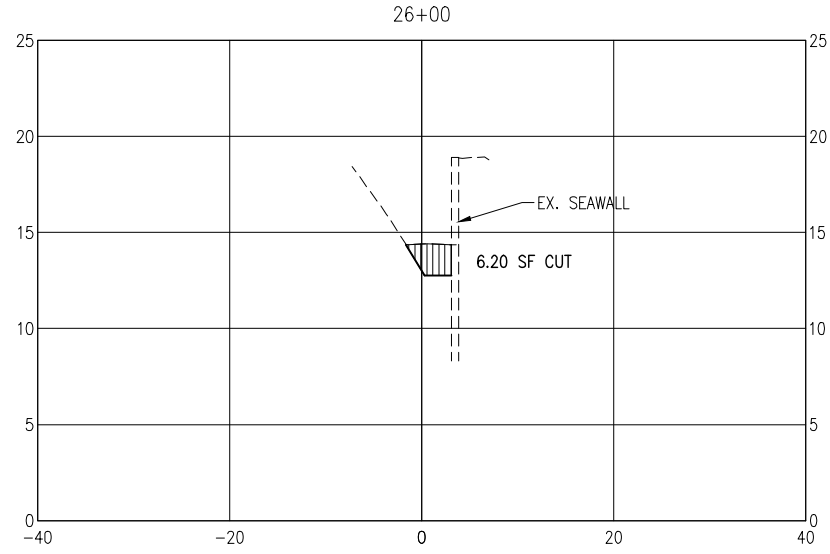
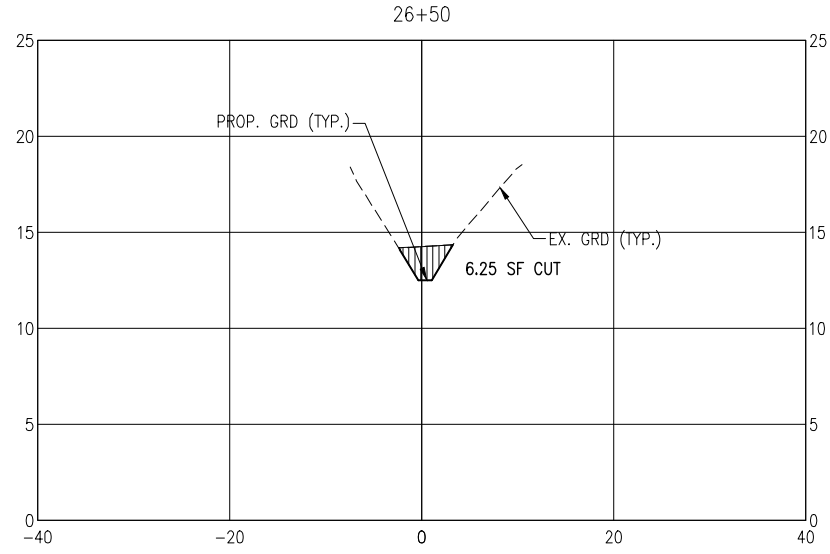
  

PROJECT NO:	276551.01
DESIGNED BY:	GM
DRAWN BY:	RG
CHK'D BY:	JCP
PROJ. MGR:	JCP
DATE:	MAY 2022

RELEASED FOR CONSTRUCTION BY JCP DATE 5/24/2022

**CROSS-SECTIONS**

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**CROSS-SECTIONS**

**C-116**

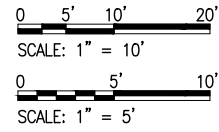
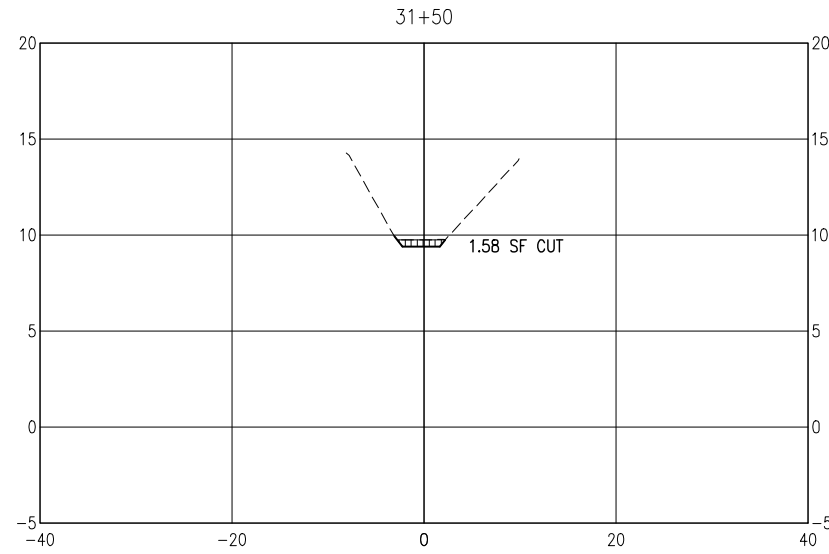
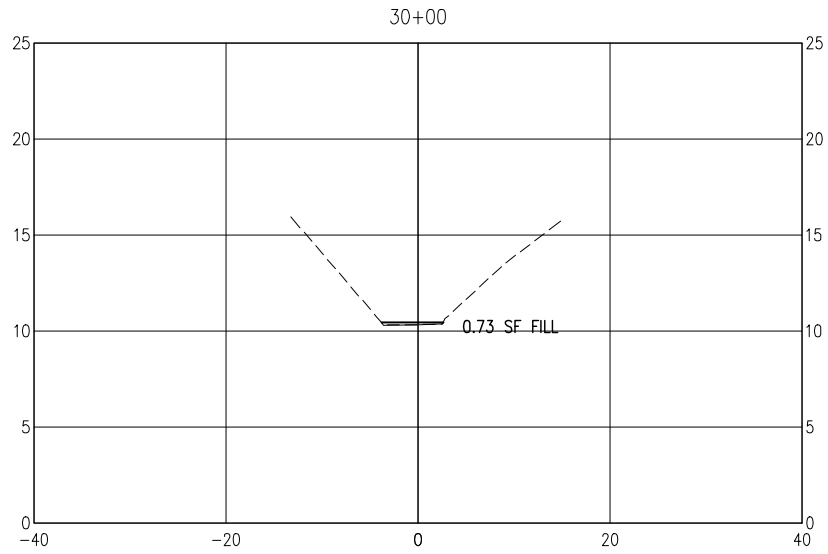
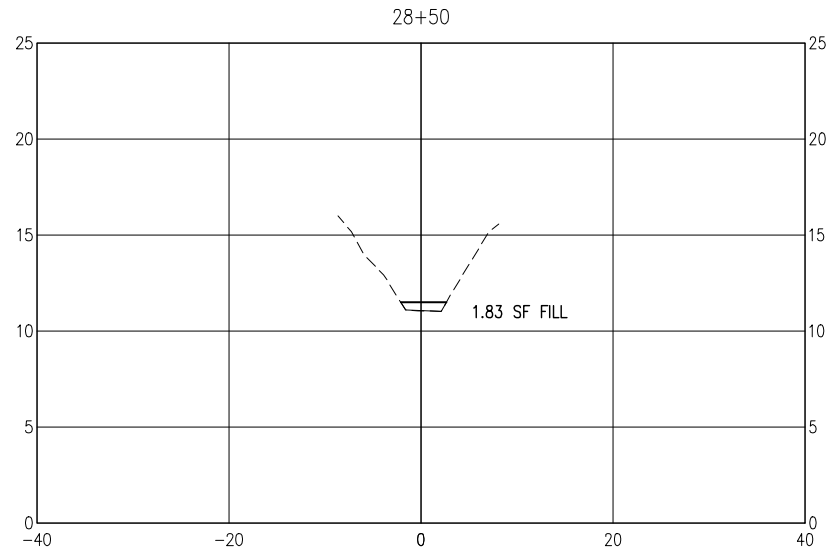
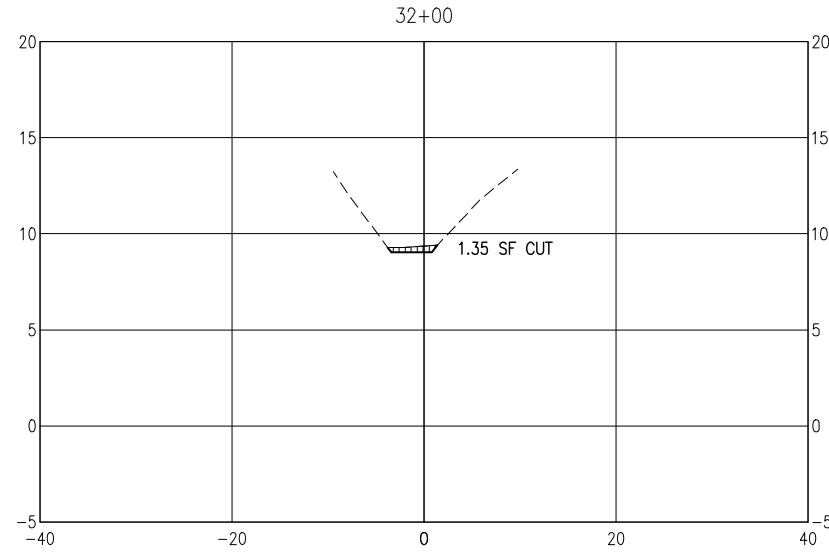
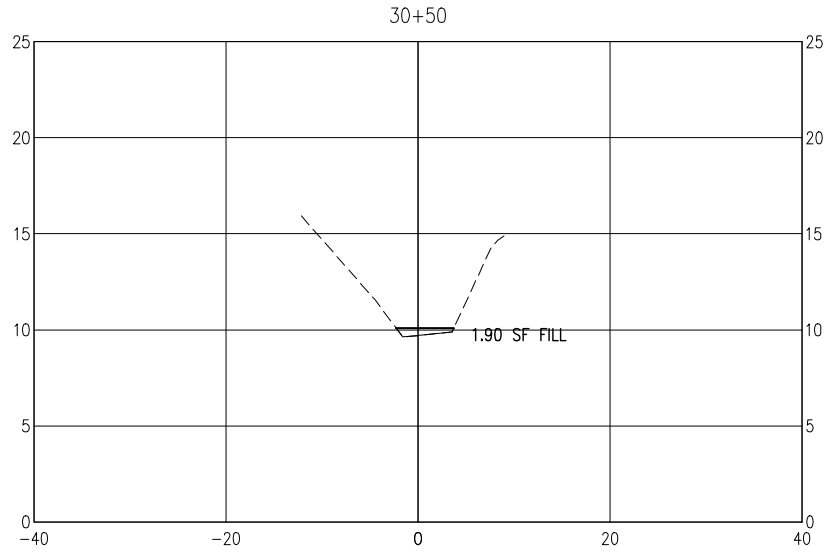
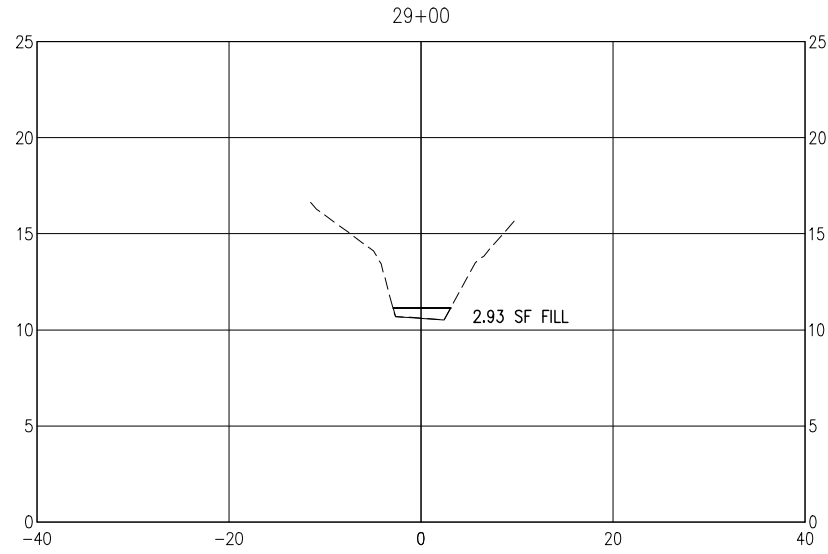
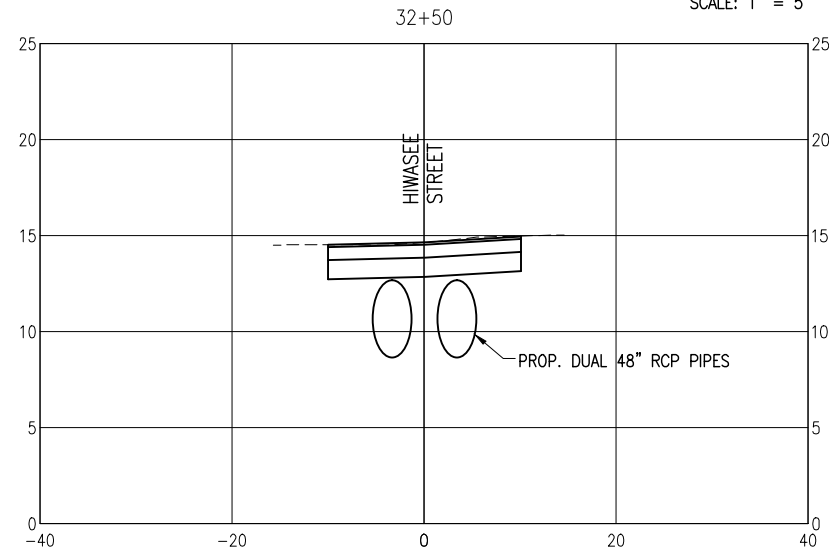
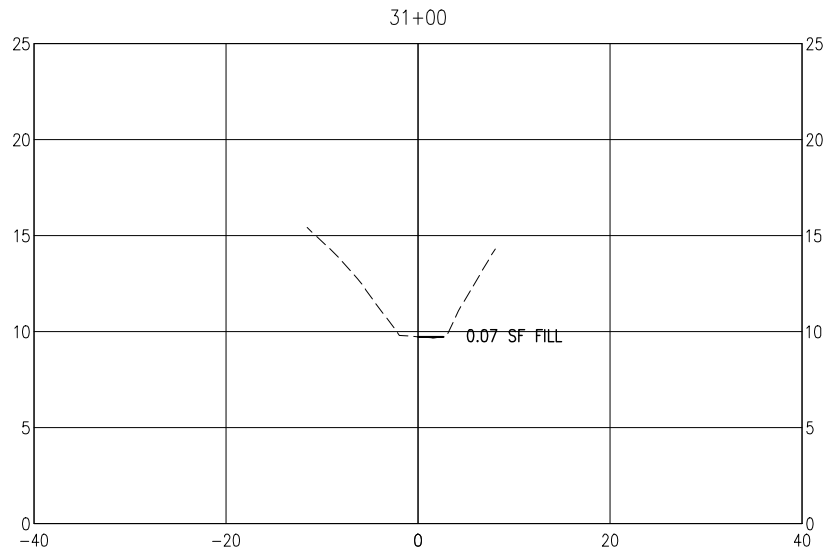
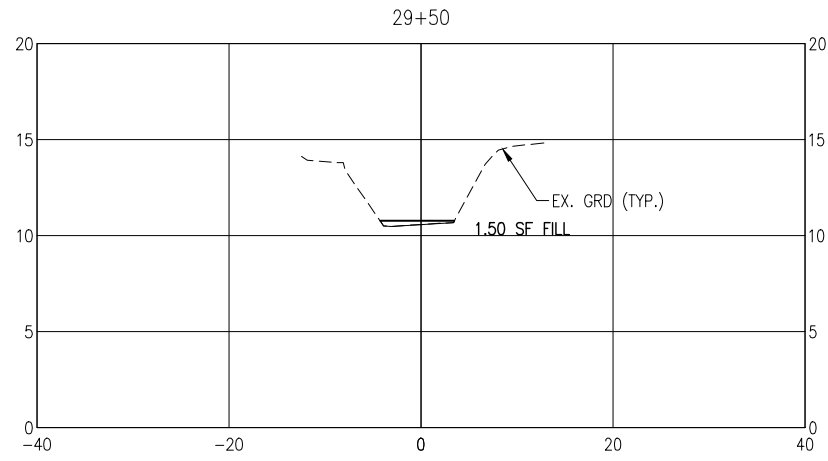
**CHERRY STREET  
DRAINAGE IMPROVEMENTS  
(JAN DR TO ROGERS  
POND)**

PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01				
DESIGNED BY: GM				
DRAWN BY: RGC				
CHK'D BY: JCP				
PROJ. MGR: JCP				
DATE: MAR 2022				
NOT RELEASED FOR CONSTRUCTION BY DATE / /				

**BASKERVILLE-DONOVAN, INC.**  
ENGINEERING THE SOUTH SINCE 1927  
448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661  
ENGINEERING BUSINESS: EB-0000340  
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FERRY C. PETERMAN, P.E.  
Fl. Reg. Engineer #77540

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**CROSS-SECTIONS**

PROJECT NO.	DESIGNED BY	DRAWN BY	CHK'D BY	PROJ. MGR.	DATE
27651.01	GM	RCG	JCP	JCP	MAR 2022

NO.	DATE	APPR.	REVISION/ACTION TAKEN

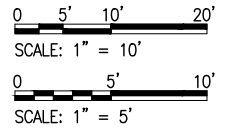
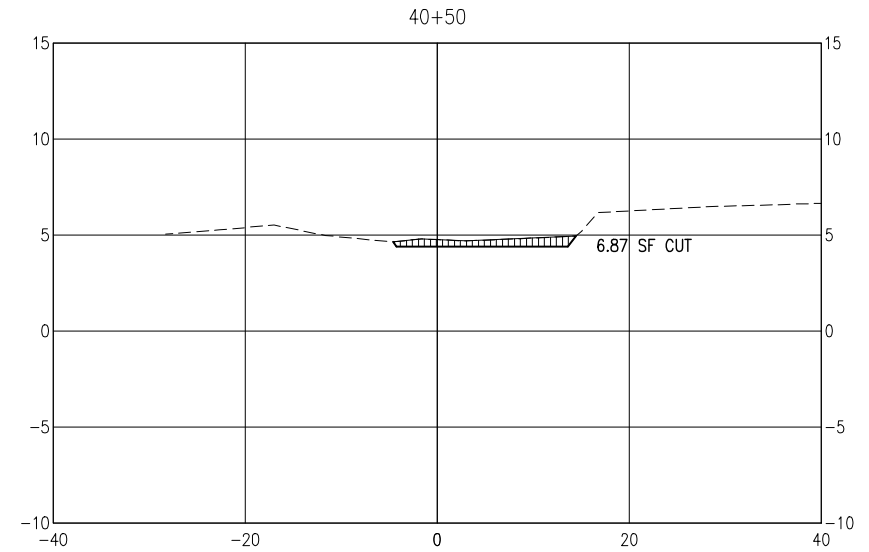
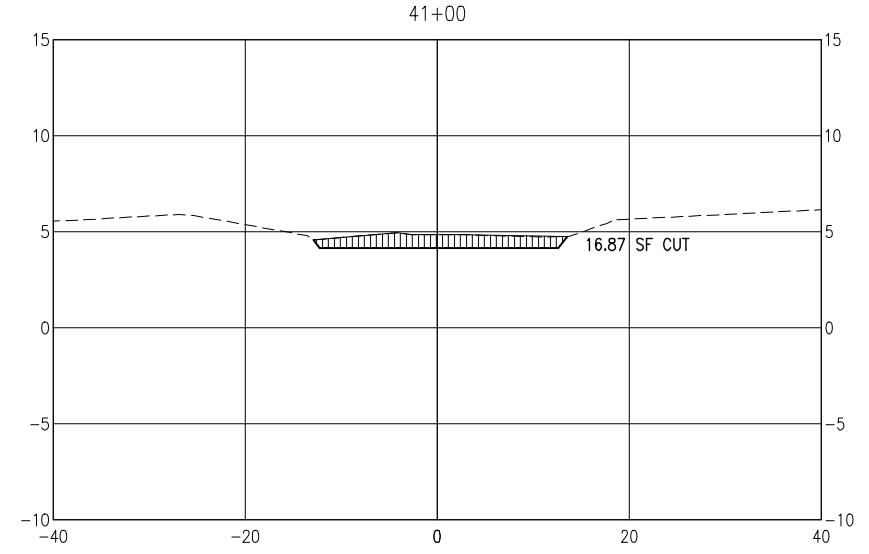
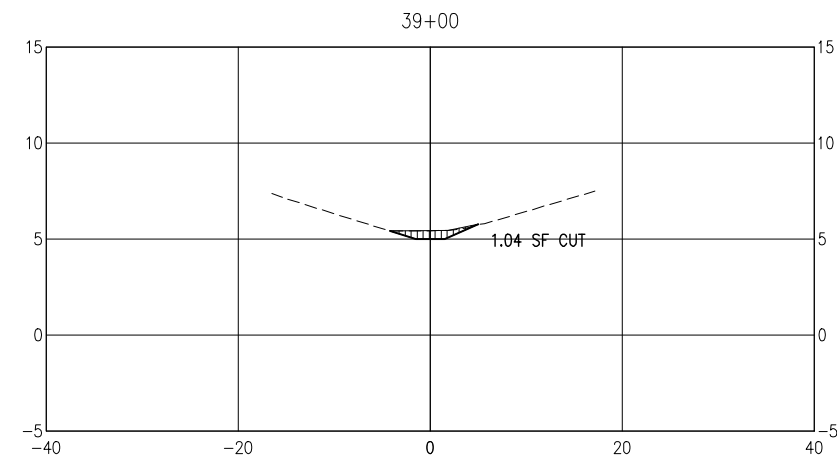
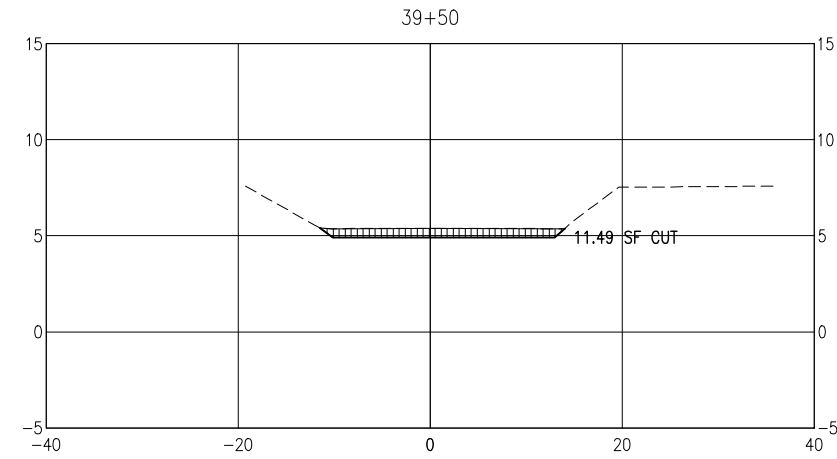
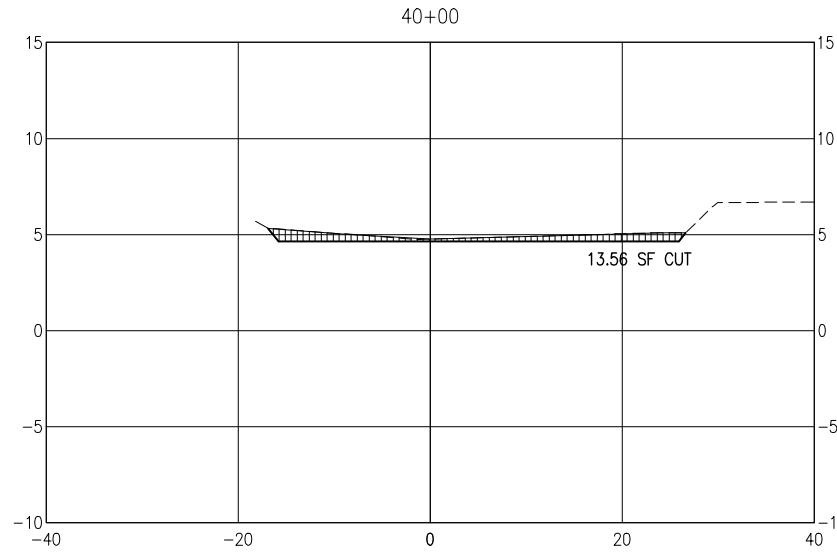
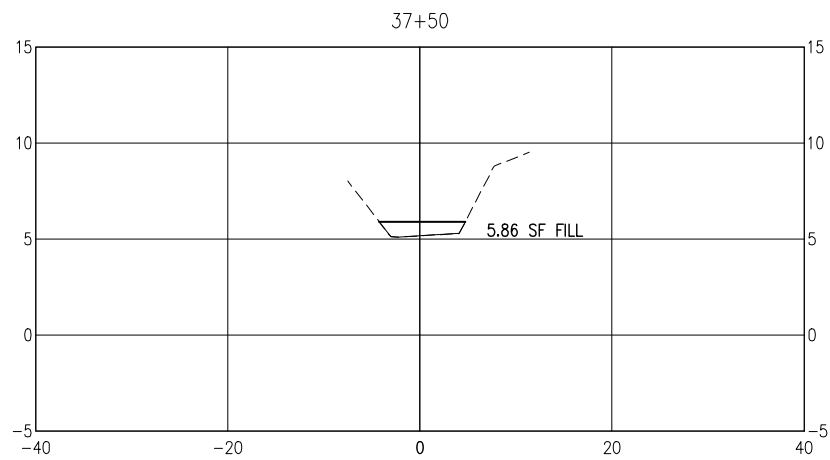
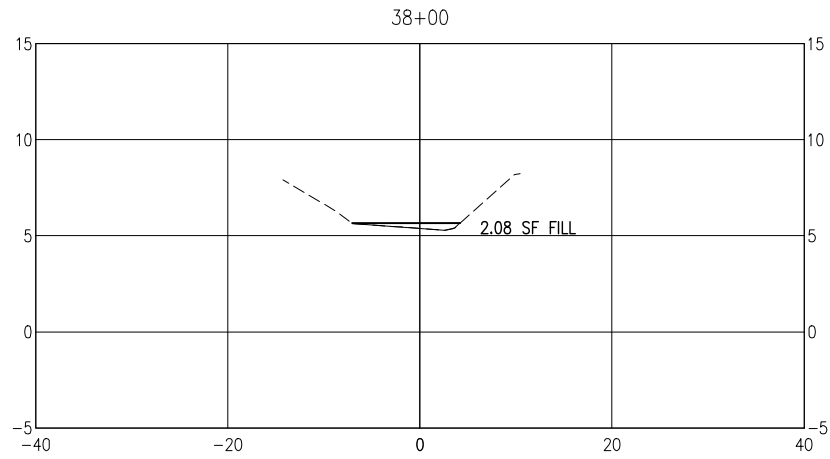
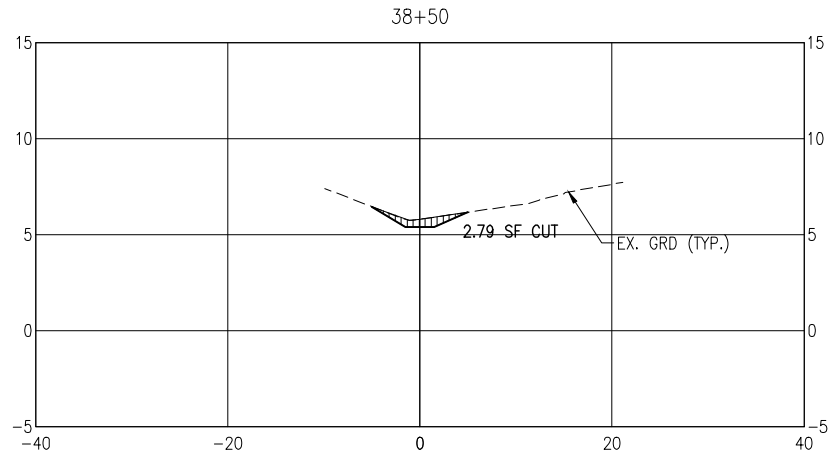
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**BASKERVILLE-DONOVAN, INC.**  
**ENGINEERING THE SOUTH SINCE 1927**  
 448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9861  
 ENGINEERING BUSINESS: EB-0000340  
 Pensacola - Panama City Beach - Tallahassee - Mobile

LESTER C. PETERMAN, P.E.  
 FL. Reg. Engineer #77540



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CROSS-SECTIONS

C-119

CHERRY STREET  
DRAINAGE IMPROVEMENTS  
(JAN DR TO ROGERS  
POND)

PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01				
DESIGNED BY: GM				
DRAWN BY: RGC				
CHK'D BY: JCP				
PROJ. MGR: JCP				
DATE: MAR 2022				

NOT RELEASED FOR CONSTRUCTION BY DATE

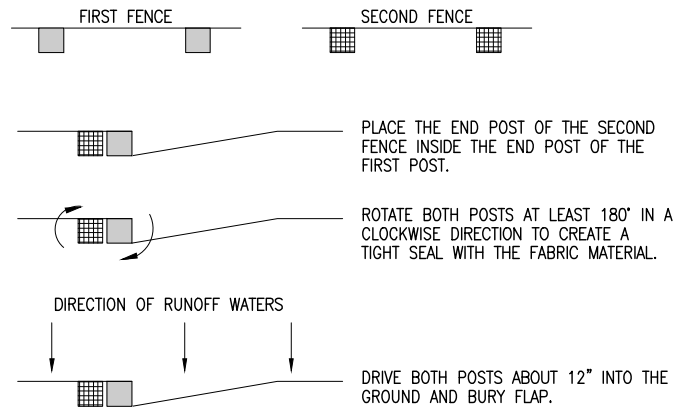
**BASKERVILLE-DONOVAN, INC.**  
ENGINEERING THE SOUTH SINCE 1927

448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661  
ENGINEERING BUSINESS: EB-0000340  
Pensacola - Panama City Beach - Tallahassee - Mobile

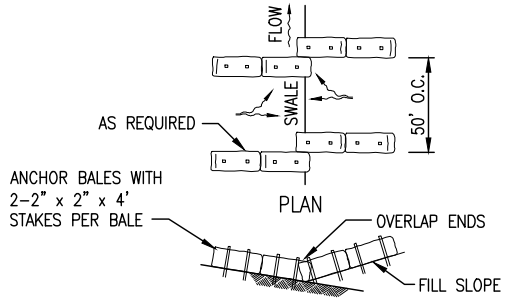
JERRY C. PETERMAN, P.E.  
FL. Reg. Engineer #77540

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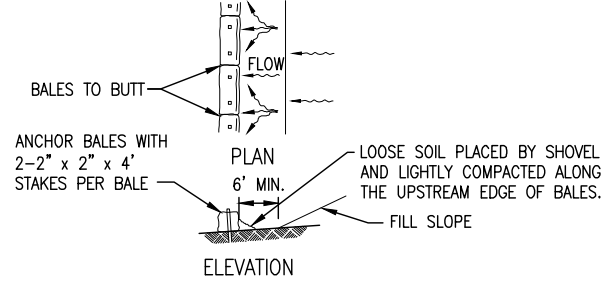
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**BUTTING SILT FENCE DETAIL**  
NOT TO SCALE

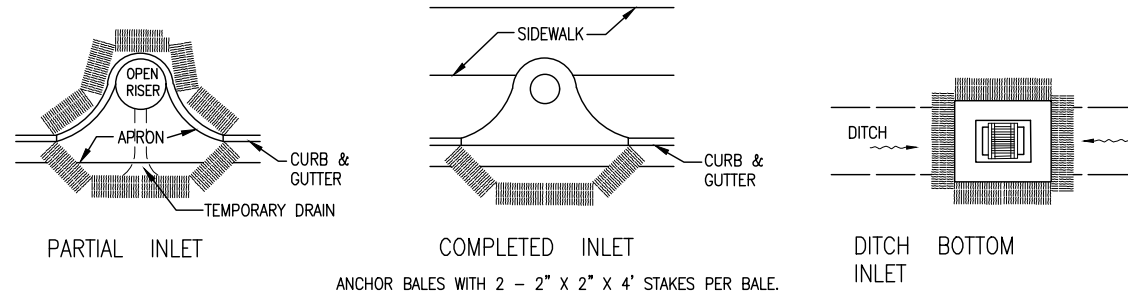


**ELEVATION**  
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

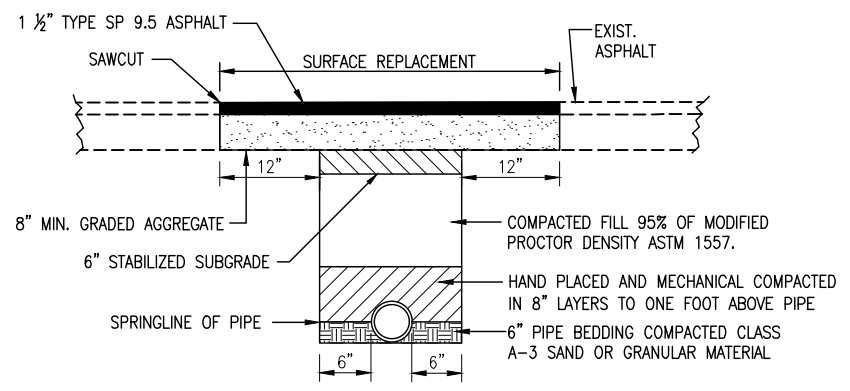


**ELEVATION**  
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

**BARRIERS FOR FILL SLOPES**  
NOT TO SCALE



**PROTECTION AROUND INLETS OR SIMILAR STRUCTURES**  
NOT TO SCALE



GRADED AGGREGATE BASE LAYER SHALL BE COMPACTED TO 100% MODIFIED PROCTOR DENSITY AASHTO T-180. BACKFILL BELOW BASE LAYER WILL BE PLACED IN MAXIMUM 8-INCH THICK LOOSE LIFTS.

**LATERAL PAVEMENT PATCH DETAIL**  
NOT TO SCALE

**BASKERVILLE-DONOVAN, INC.**  
ENGINEERING THE SOUTH SINCE 1927  
448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9861  
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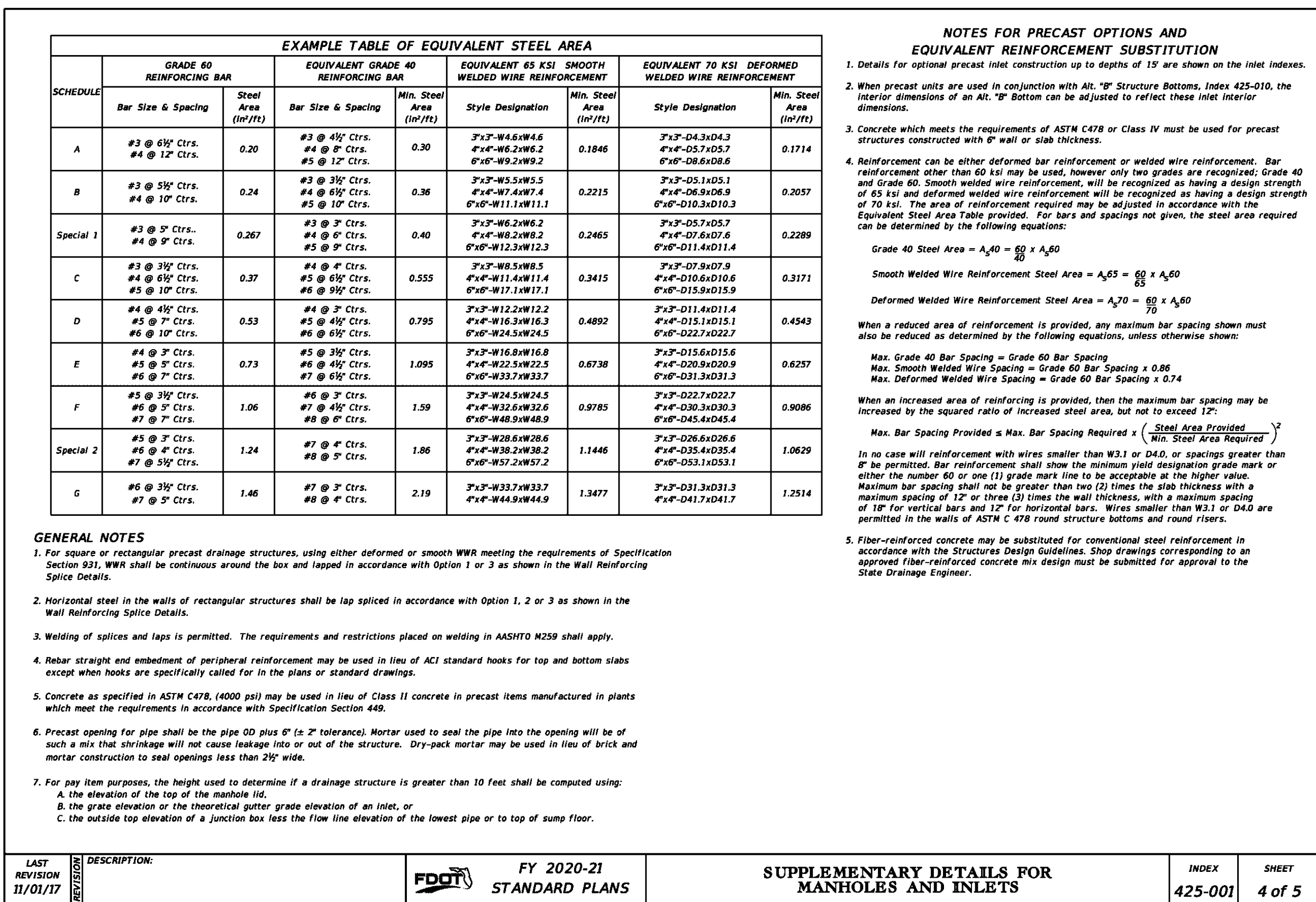
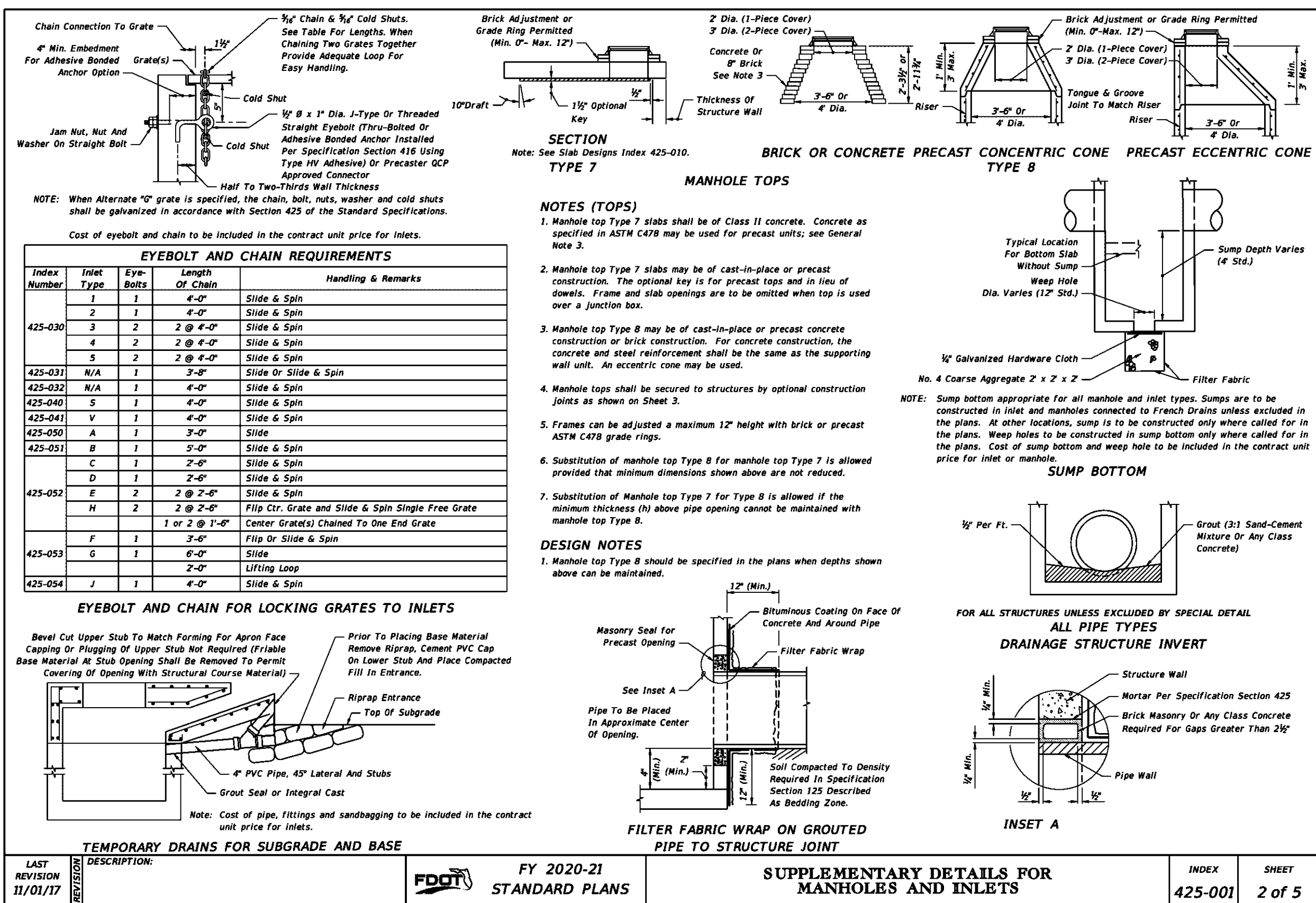
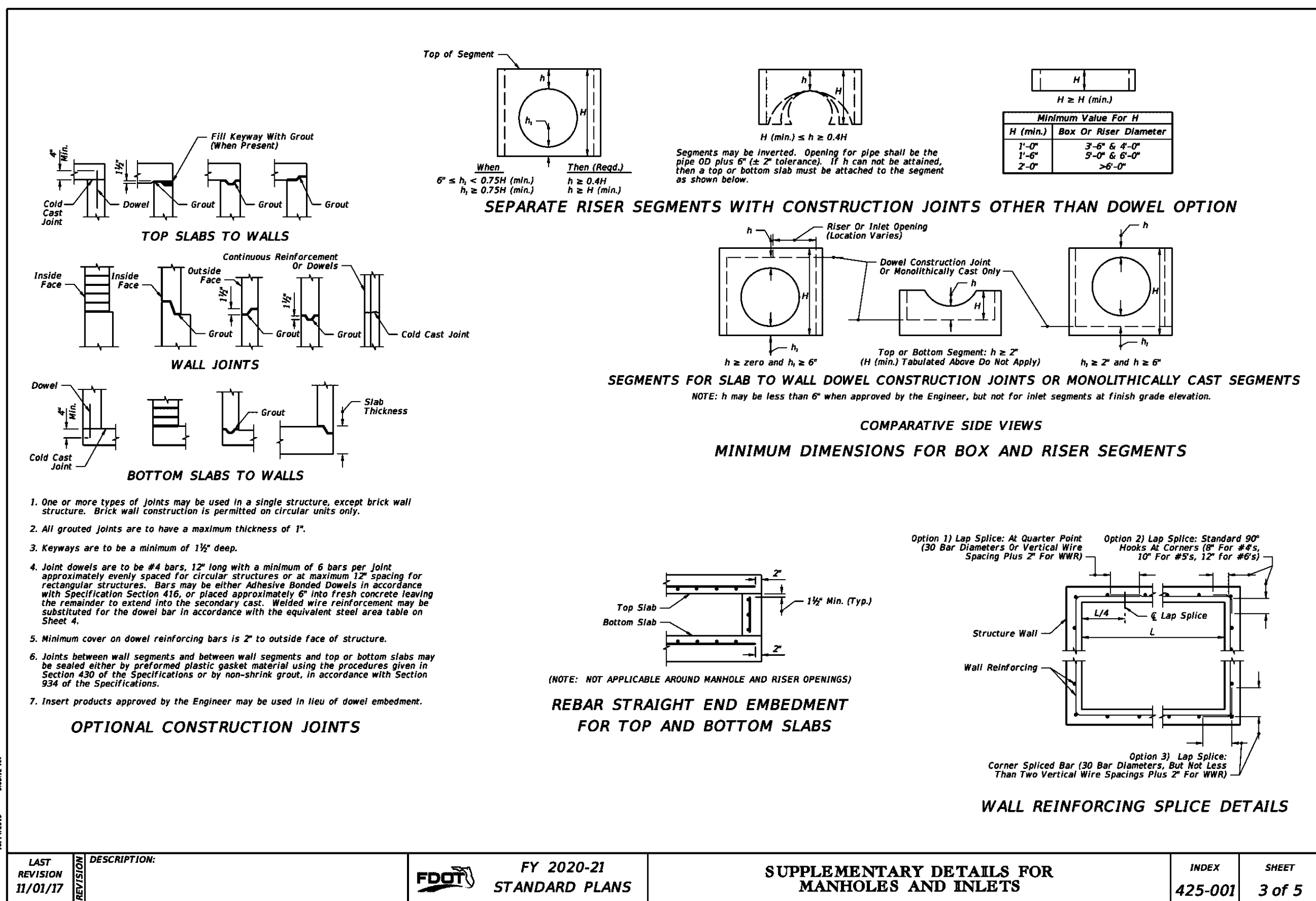
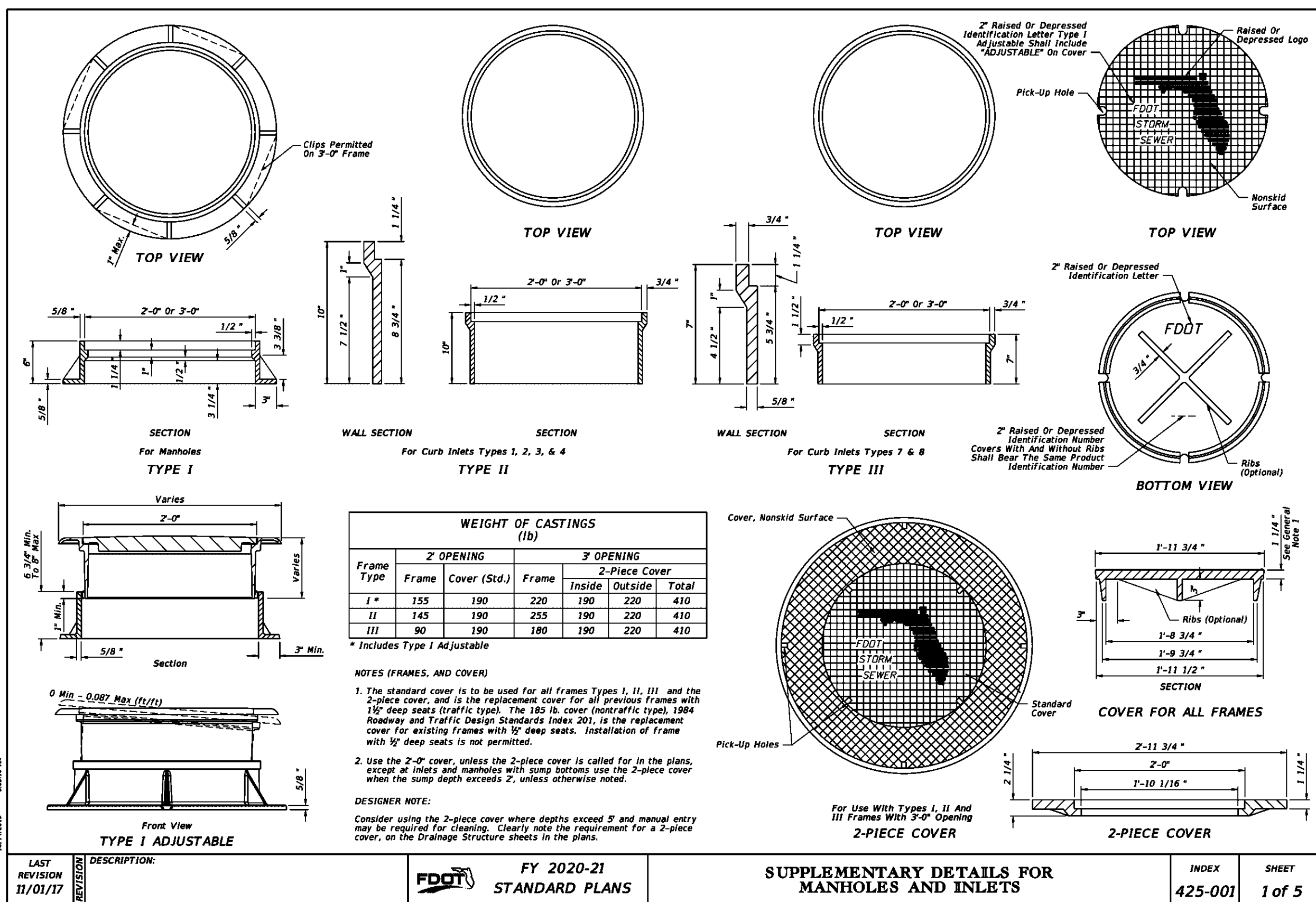
LETTY C. PETERMAN, P.E.  
Fl. Reg. Engineer #77540

**CHERRY STREET  
DRAINAGE IMPROVEMENTS  
(JAN DR TO ROGERS  
POND)**

PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
27651.01				
DESIGNED BY: MDL				
DRAWN BY: RGG				
CHK'D BY: MDL				
PROJ. MGR: JCP				
DATE: MAR 2022				

**DETAILS**

**C-900**





NO.	DATE	APPR.	REVISION/ACTION TAKEN

PROJECT NO:	27651.01
DESIGNED BY:	MIL
DRAWN BY:	ROG
CHK'D BY:	MIL
PROD. MGR.:	JCP
DATE:	MAR 2022

NOT RELEASED FOR CONSTRUCTION BY	DATE

**DESIGNER NOTE:** Use only when round structures are not practical, engineer of record approval required.

**NOTE:**

- Submit Shop Drawings of corner openings for approval by the Engineer of Record.
- $h_2$  may be less than 1'-0" when a minimum 1'-0" deep segment, 6" slab or curb inset is provided above the corner opening.
- For inlet segments at finish grade elevation substitute a #8 bar for the top corner bar when 1'-0" ≤  $h_2$  < 2'-0".

LAST REVISION	DESCRIPTION:	FY 2020-21 STANDARD PLANS	SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS	INDEX	SHEET
11/01/17				425-001	5 of 5

**NOTE:** Provide one extra #4 bar reinforcement each side of each opening and two extra #4 bars at 3" min. spacing above each opening.

**NOTE:** When the inside diameter of a round structure is not more than 1'-0" larger than the opening in the riser or top slab, the top of the structure or riser shall be constructed according to the "Special Top Slab" details on this sheet.

LAST REVISION	DESCRIPTION:	FY 2020-21 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX	SHEET
11/01/19				425-010	1 of 5

**TABLE 3 - MINIMUM STRUCTURE SIZES FOR SINGLE PIPE CONNECTION PER SIDE**

PIPE SIZE	RECTANGULAR		ROUND	
	Side Dimension (L)	Side Dimension (S)	Diameter (D)	Side Dimension (S)
18"	3'-0"	3'-0"	3'-0"	3'-0"
24"	3'-0"	3'-0"	3'-0"	3'-0"
30"	3'-0"	3'-0"	3'-0"	3'-0"
36"	3'-0"	3'-0"	3'-0"	3'-0"
42"	3'-0"	3'-0"	3'-0"	3'-0"
48"	3'-0"	3'-0"	3'-0"	3'-0"
54"	3'-0"	3'-0"	3'-0"	3'-0"
60"	3'-0"	3'-0"	3'-0"	3'-0"
66"	3'-0"	3'-0"	3'-0"	3'-0"
72"	3'-0"	3'-0"	3'-0"	3'-0"
78"	3'-0"	3'-0"	3'-0"	3'-0"
84"	3'-0"	3'-0"	3'-0"	3'-0"

**TABLE 5 - MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS**

WALL THICKNESS	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
6"	11°	11°	11°	11°	11°	11°	11°	11°	11°	11°	11°	11°
8"	12°	12°	12°	12°	12°	12°	12°	12°	12°	12°	12°	12°
10"	13°	13°	13°	13°	13°	13°	13°	13°	13°	13°	13°	13°

**TABLE 4 - MINIMUM SIZES FOR MULTIPLE PARALLEL PIPE CONNECTIONS FOR RECTANGULAR STRUCTURE BOTTOMS**

PIPE SIZE	SPACING	MINIMUM WALL LENGTH (L) FOR NUMBER OF PARALLEL PIPES	
		2	3
18"	2'-0"	8'-0"	11'-0"
24"	2'-0"	8'-0"	11'-0"
30"	2'-0"	8'-0"	11'-0"
36"	2'-0"	8'-0"	11'-0"
42"	2'-0"	8'-0"	11'-0"
48"	2'-0"	8'-0"	11'-0"
54"	2'-0"	8'-0"	11'-0"
60"	2'-0"	8'-0"	11'-0"
66"	2'-0"	8'-0"	11'-0"
72"	2'-0"	8'-0"	11'-0"
78"	2'-0"	8'-0"	11'-0"
84"	2'-0"	8'-0"	11'-0"

LAST REVISION	DESCRIPTION:	FY 2020-21 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX	SHEET
11/01/17				425-010	3 of 5

**TABLE 3 - MINIMUM STRUCTURE SIZES FOR SINGLE PIPE CONNECTION PER SIDE**

PIPE SIZE	RECTANGULAR		ROUND	
	Side Dimension (L)	Side Dimension (S)	Diameter (D)	Side Dimension (S)
18"	3'-0"	3'-0"	3'-0"	3'-0"
24"	3'-0"	3'-0"	3'-0"	3'-0"
30"	3'-0"	3'-0"	3'-0"	3'-0"
36"	3'-0"	3'-0"	3'-0"	3'-0"
42"	3'-0"	3'-0"	3'-0"	3'-0"
48"	3'-0"	3'-0"	3'-0"	3'-0"
54"	3'-0"	3'-0"	3'-0"	3'-0"
60"	3'-0"	3'-0"	3'-0"	3'-0"
66"	3'-0"	3'-0"	3'-0"	3'-0"
72"	3'-0"	3'-0"	3'-0"	3'-0"
78"	3'-0"	3'-0"	3'-0"	3'-0"
84"	3'-0"	3'-0"	3'-0"	3'-0"

**TABLE 5 - MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS**

WALL THICKNESS	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
6"	11°	11°	11°	11°	11°	11°	11°	11°	11°	11°	11°	11°
8"	12°	12°	12°	12°	12°	12°	12°	12°	12°	12°	12°	12°
10"	13°	13°	13°	13°	13°	13°	13°	13°	13°	13°	13°	13°

**TABLE 4 - MINIMUM SIZES FOR MULTIPLE PARALLEL PIPE CONNECTIONS FOR RECTANGULAR STRUCTURE BOTTOMS**

PIPE SIZE	SPACING	MINIMUM WALL LENGTH (L) FOR NUMBER OF PARALLEL PIPES	
		2	3
18"	2'-0"	8'-0"	11'-0"
24"	2'-0"	8'-0"	11'-0"
30"	2'-0"	8'-0"	11'-0"
36"	2'-0"	8'-0"	11'-0"
42"	2'-0"	8'-0"	11'-0"
48"	2'-0"	8'-0"	11'-0"
54"	2'-0"	8'-0"	11'-0"
60"	2'-0"	8'-0"	11'-0"
66"	2'-0"	8'-0"	11'-0"
72"	2'-0"	8'-0"	11'-0"
78"	2'-0"	8'-0"	11'-0"
84"	2'-0"	8'-0"	11'-0"

LAST REVISION	DESCRIPTION:	FY 2020-21 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX	SHEET
11/01/17				425-010	3 of 5

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SLAB DESIGNS - SQUARE AND RECTANGULAR STRUCTURES (TABLE 6)  
(ALL SLABS 8" THICK EXCEPT AS NOTED - REINFORCING PARALLEL TO SHORT WAY AND LONG WAY)

Table with columns for Slab Depth, Schedule, Slab Thickness, and Reinforcement (Bars A, B, C, D, E). Includes sub-tables for Short-Way and Long-Way dimensions.

SLAB DESIGNS - ROUND STRUCTURES (TABLE 7)

Table with columns for Slab Depth, Schedule, Slab Thickness, and Reinforcement (Bars A, B, C, D, E). Includes sub-tables for Short-Way and Long-Way diameters.

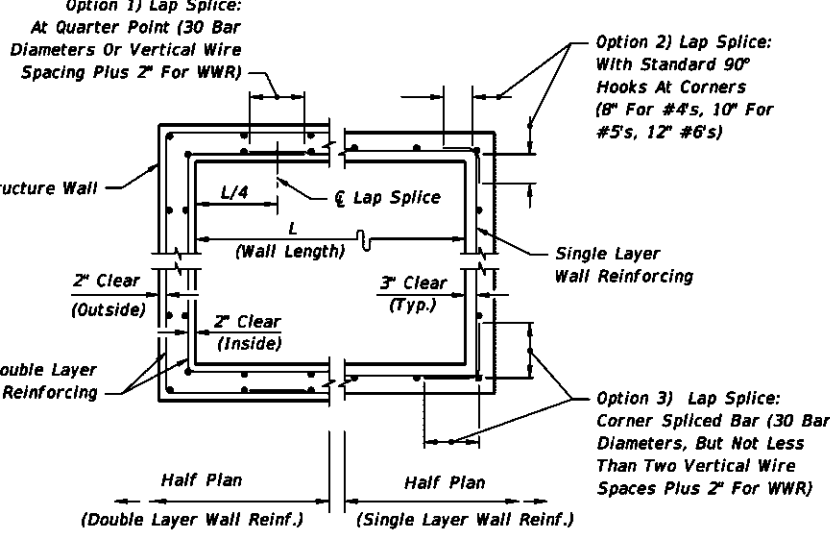
- SLAB AND WALL DESIGN TABLE NOTES
1. Size is the inside dimension of a structure.
2. Slab reinforcement is appropriate for top, intermediate, and bottom slabs.
3. Bottom Slabs for precast 3'-0" x 3'-0" rectangular structures at 15' depth or less, may be 6" thick.
4. Slab depth is measured from finished grade to top of slab.
5. Wall depth is measured to the top of the bottom slab for boxes and to the top of the intermediate slab for risers.
6. Wall height is the distance between top of lower slab to bottom of upper slab. Maximum wall height is 12' for wall lengths exceeding 5', or 10' for wall lengths exceeding 12'.
7. Wall lengths exceeding 6'-0" require two layers of reinforcing (See Table 8) with 7" of cover from the horizontal bars to the inside and outside faces for each layer.
8. Wall lengths exceeding the dimensions or depths shown in Table 8, or 12'-0" diameter require a special design.
9. Wall thickness and reinforcing for rectangular structures is based on the longer wall length.
10. Reinforcing schedules with larger areas of steel may be substituted for schedules with smaller bar or wire spacing, except that Schedule B10 may not be substituted for Schedule A6. See Index 425-001 for allowable bar spacing adjustments when larger areas of reinforcing are substituted.

Revision table with columns: LAST REVISION, REVISION, DESCRIPTION, INDEX, SHEET. Includes FDOT logo and project info: FY 2020-21 STANDARD PLANS, STRUCTURE BOTTOMS TYPE J AND P, INDEX 425-010, SHEET 4 of 5.

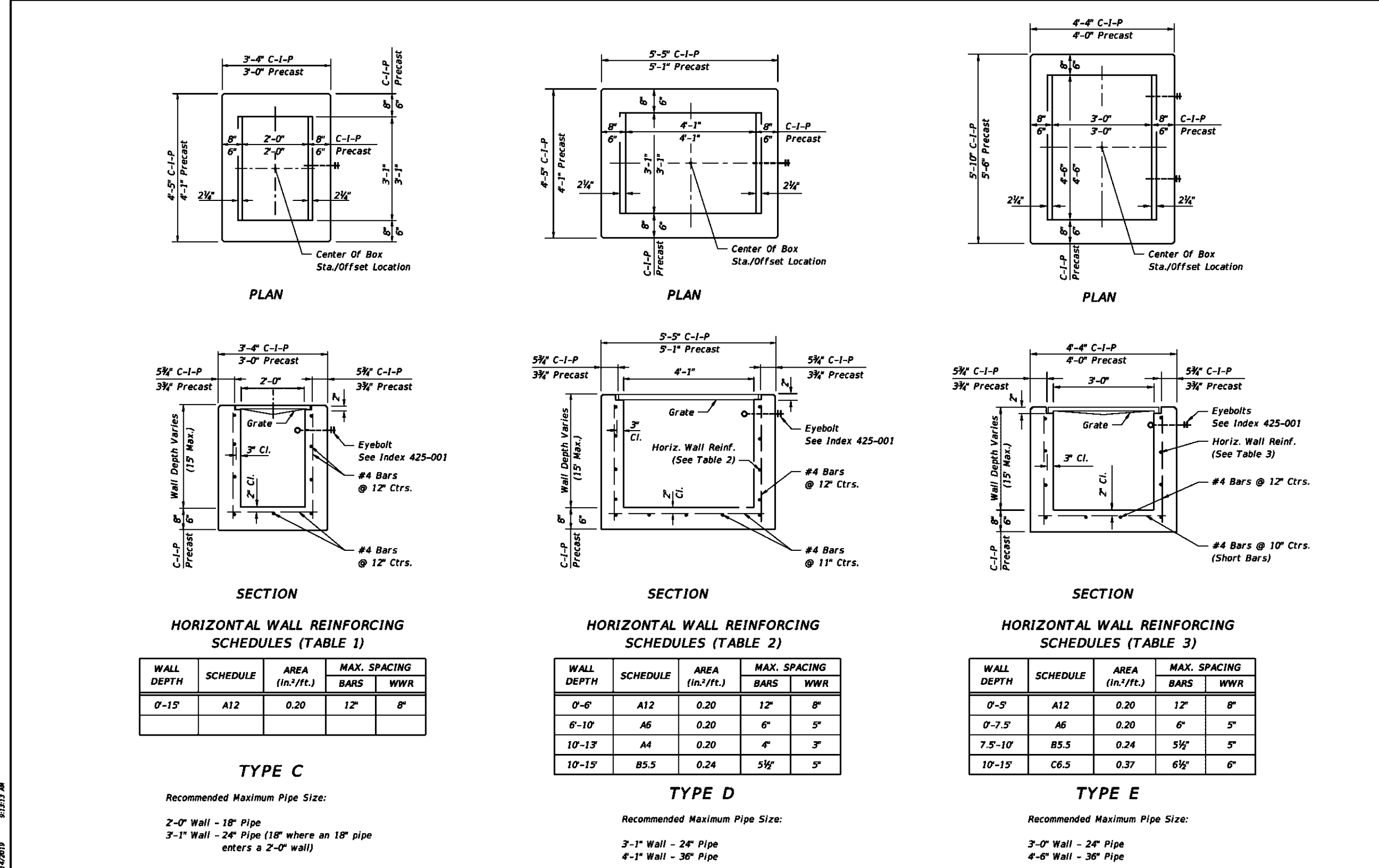
WALL DESIGNS - RECTANGULAR STRUCTURES (TABLE 8)

Table with columns for Vertical Reinforcing, Horizontal Reinforcing, and Wall Thickness. Includes sub-tables for Inside/Outside dimensions and various wall schedules.

REINFORCING SCHEDULE table with columns: SCHEDULE, GRADE 60 AREA (in./ft.), 65 KSI (in.), WWR EQUIV. AREA\* (70 KSI (in.)).



Revision table with columns: LAST REVISION, REVISION, DESCRIPTION, INDEX, SHEET. Includes FDOT logo and project info: FY 2020-21 STANDARD PLANS, STRUCTURE BOTTOMS TYPE J AND P, INDEX 425-010, SHEET 5 of 5.



HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 1) table for Type C.

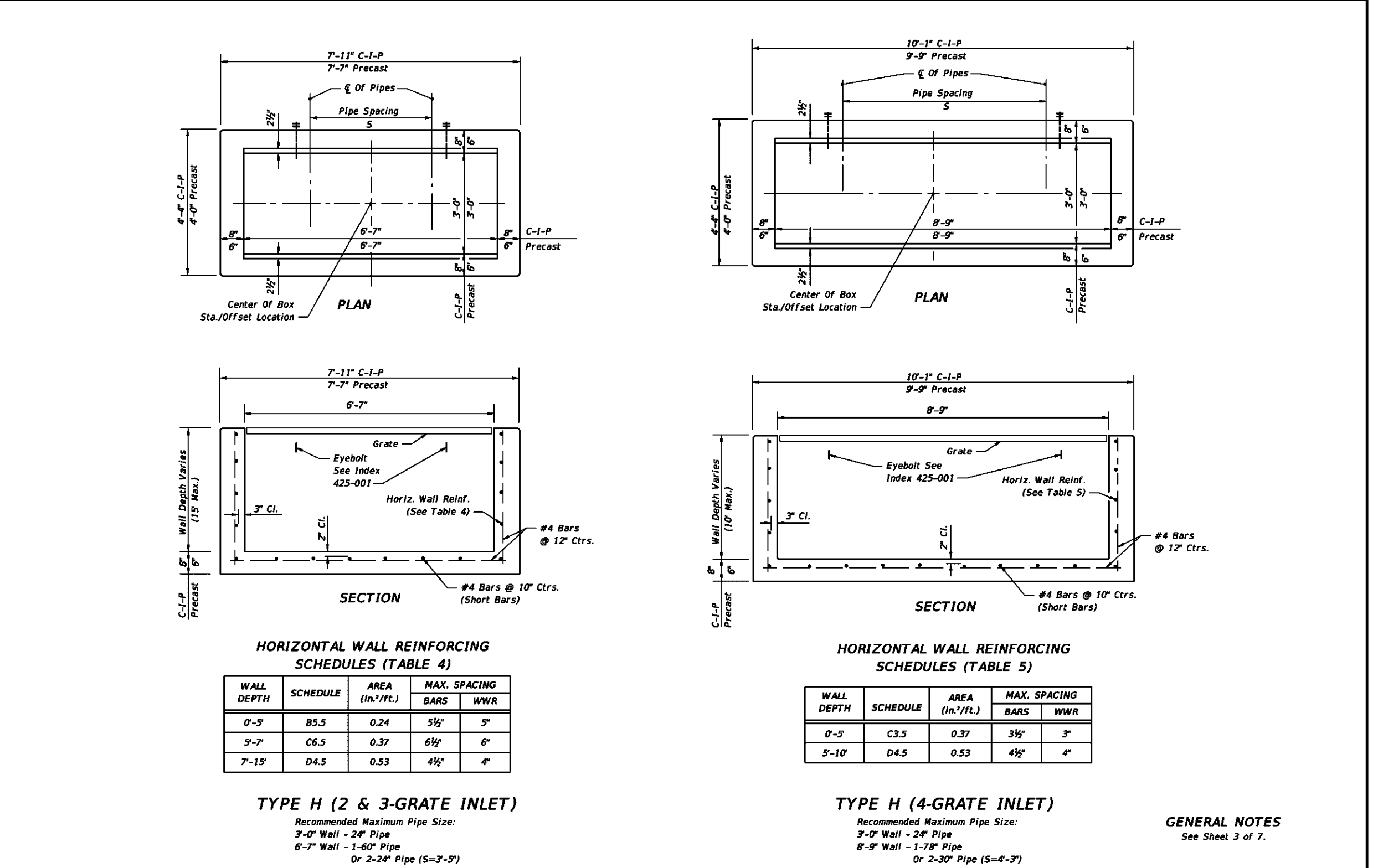
HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 2) table for Type D.

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 3) table for Type E.

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4) table for Type H (2 & 3-GRATE INLET).

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 5) table for Type H (4-GRATE INLET).

Revision table with columns: LAST REVISION, REVISION, DESCRIPTION, INDEX, SHEET. Includes FDOT logo and project info: FY 2020-21 STANDARD PLANS, DITCH BOTTOM INLET TYPES C, D, E AND H, INDEX 425-052, SHEET 1 of 7.



HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4) table for Type H (2 & 3-GRATE INLET).

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 5) table for Type H (4-GRATE INLET).

Revision table with columns: LAST REVISION, REVISION, DESCRIPTION, INDEX, SHEET. Includes FDOT logo and project info: FY 2020-21 STANDARD PLANS, DITCH BOTTOM INLET TYPES C, D, E AND H, INDEX 425-052, SHEET 2 of 7.

Vertical sidebar containing project information: PROJECT NO: 27651.01, DESIGNED BY: MDL, DRAWN BY: RGC, CHK'D BY: MDL, PROJ. MGR.: JCP, DATE: MAR 2022, REVISION/ACTION TAKEN table, and company logo: BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927.

C-903

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**CAST IRON GRATES**

**TYPE C** (Approx. Weight 235 Lbs.)  
 Straight Bars 2" x 1/2"  
 Reticuline Bars 1 1/2" x 3/4"  
 Bands 2" x 1/4"  
 Approx. Weight 104 Lbs.

**TYPE D** (Approx. Weight 190 Lbs.)  
 Straight Bars 2" x 1/2"  
 Reticuline Bars 1 1/2" x 3/4"  
 Bands 2" x 1/4"  
 Approx. Weight 104 Lbs.

**TYPE E** (Approx. Weight 465 Lbs.)  
 Straight Bars 2" x 1/2"  
 Reticuline Bars 1 1/2" x 3/4"  
 Bands 2" x 1/4"  
 Approx. Weight 215 Lbs.

**TYPE H (3-GRATE INLET)** (Approx. Weight 725 Lbs.)

**TYPE H (4-GRATE INLET)** (Approx. Weight 967 Lbs.)

**STEEL GRATES**

**TYPE C** (Approx. Weight 104 Lbs.)  
 Straight Bars 2" x 1/2"  
 Reticuline Bars 1 1/2" x 3/4"  
 Bands 2" x 1/4"  
 Approx. Weight 104 Lbs.

**TYPE D** (Approx. Weight 190 Lbs.)  
 Straight Bars 2" x 1/2"  
 Reticuline Bars 1 1/2" x 3/4"  
 Bands 2" x 1/4"  
 Approx. Weight 104 Lbs.

**TYPE E** (Approx. Weight 215 Lbs.)  
 Straight Bars 2" x 1/2"  
 Reticuline Bars 1 1/2" x 3/4"  
 Bands 2" x 1/4"  
 Approx. Weight 215 Lbs.

**TYPE H (2-GRATE INLET)** (Approx. Total Weight 310 Lbs.)  
 Straight End-Bearing Bars 2" x 1/2"  
 Straight Bearing Bars 2" x 1/2"  
 Reticuline Bars 1 1/2" x 3/4"  
 Bands 2" x 1/4"  
 Approx. Total Weight 310 Lbs.

**TYPE H (4-GRATE INLET)** (Approx. Total Weight 388 Lbs.)  
 Straight End-Bearing Bars 2" x 1/2"  
 Straight Bearing Bars 2" x 1/2"  
 Reticuline Bars 1 1/2" x 3/4"  
 Bands 2" x 1/4"  
 Approx. Total Weight 388 Lbs.

**GENERAL NOTES**

- These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
- Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and areas subject to pedestrians shall have traversable slots. The traversable slot modification is not adaptable to Inlet Type H. Slots may be constructed at either or both ends as shown on plans. Traversable slots shall not be used in areas subject to occasional bicycle traffic.
- Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate C grate is specified in the plans, either the steel grate, hot dip galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
- Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
- All exposed edges and corners shall be 1/2" chamfer or tool to 1/2" radius.
- Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
- Traversable slots constructed in existing inlets shall be paid for as inlets partial. For conversion work and method of payment see TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS.
- Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Turf, SY.
- For supplementary details see Index 425-001.
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1/2" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.

**NOTE:** Steel Grates Are Required on Inlets With Traversable Slots And on Inlets where Bicycle Traffic is Anticipated.

LAST REVISION	DESCRIPTION:	FY 2020-21	INDEX	SHEET
11/01/17		STANDARD PLANS	425-052	3 of 7

**DESIGN NOTES FOR TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS**

- The general purpose of these conversions is to remove the hazard of the protruding inlet top, while not creating a hazard by depressing the top too deeply.
- The corrective procedure depends on the approach ditch grade and hydraulic requirements of the site. The selection of the appropriate case depends on the relationship between inlet top and ditch elevation, and on the vertical clearance between the top of the uppermost pipe(s) and the grate. The purpose for the Case 1 conversion is to add the traversable slot to an existing inlet where top removal, change in grate elevation and ditch transitions are not required. Case 2 will normally be applicable to ditches with steeper grades adjoining the inlet where build up of the existing ditch is acceptable.
- The designer shall stipulate in the plans which case is to be constructed at each individual inlet location.

Where the existing inlet top is above the existing ditch (Case 2) but borrow material will be required to adjust the ditch (Case 3), and vertical clearance or other conditions do not prevent removal of the inlet top, the designer should call for Case 2. The designer shall determine if ditch reconstruction is required more than 35 feet beyond any traversable slot side and shall include separate pay items in the plans to cover the cost for that portion of required ditch reconstruction exceeding the 35 foot limit. The designer shall also determine whether ditch pavement is required for ditch restoration within the 35 foot limit and include that pavement under a pay item separate from the inlets partial.

The designer shall determine whether tight soil or other conditions at each individual inlet indicates the need for underdrain in Case 3 conversions and shall call for Underdrain, Type 1 in the plans.

**METHOD OF PAYMENT FOR TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS**

- Existing inlets converted to traversable slot tops under Cases 1, 2 and 3 shall be paid for as inlets partial, each. Case shall not be included in the pay item description.
- All ditch reconstruction work within 35 feet of each traversable slot conversion, whether required by these details or as a direct result of the conversion, shall be included as a part of the partial cost. Reconstruction work shall include excavation and removal of surplus materials or borrow materials in place, grading, compaction, shaping and restoration of disturbed turf. Sodding, ditch pavement and underdrain are not included as part of the inlet partial cost and are to be paid for separately.
- Concrete inlet pavement and sodding shall be in accordance with the sections on this detail and with the Plan on Sheet 4 and Sections AA, BB and CC (as Case 1) and tabular quantities on Sheet 5.
- Unit price and payment shall constitute full compensation for inlet conversion (including concrete inlet paving and replacement grates), ditch reconstruction, restoration of disturbed turf, and shall be paid for under the contract price for Inlets (OT Slot) Type (Partial), each.

Sodding shall be paid for under the contract unit price for Performance Turf, SY. Ditch pavement shall be paid for separate from the inlet by pavement type(s) and unit(s) as called for in the plans.

LAST REVISION	DESCRIPTION:	FY 2020-21	INDEX	SHEET
11/01/17		STANDARD PLANS	425-052	5 of 7

**DESIGN NOTES FOR TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS**

- The general purpose of these conversions is to remove the hazard of the protruding inlet top, while not creating a hazard by depressing the top too deeply.
- The corrective procedure depends on the approach ditch grade and hydraulic requirements of the site. The selection of the appropriate case depends on the relationship between inlet top and ditch elevation, and on the vertical clearance between the top of the uppermost pipe(s) and the grate. The purpose for the Case 1 conversion is to add the traversable slot to an existing inlet where top removal, change in grate elevation and ditch transitions are not required. Case 2 will normally be applicable to ditches with steeper grades adjoining the inlet where build up of the existing ditch is acceptable.
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LAST REVISION	DESCRIPTION:	FY 2020-21	INDEX	SHEET
11/01/17		STANDARD PLANS	425-052	4 of 7

**DESIGN NOTES FOR TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS**

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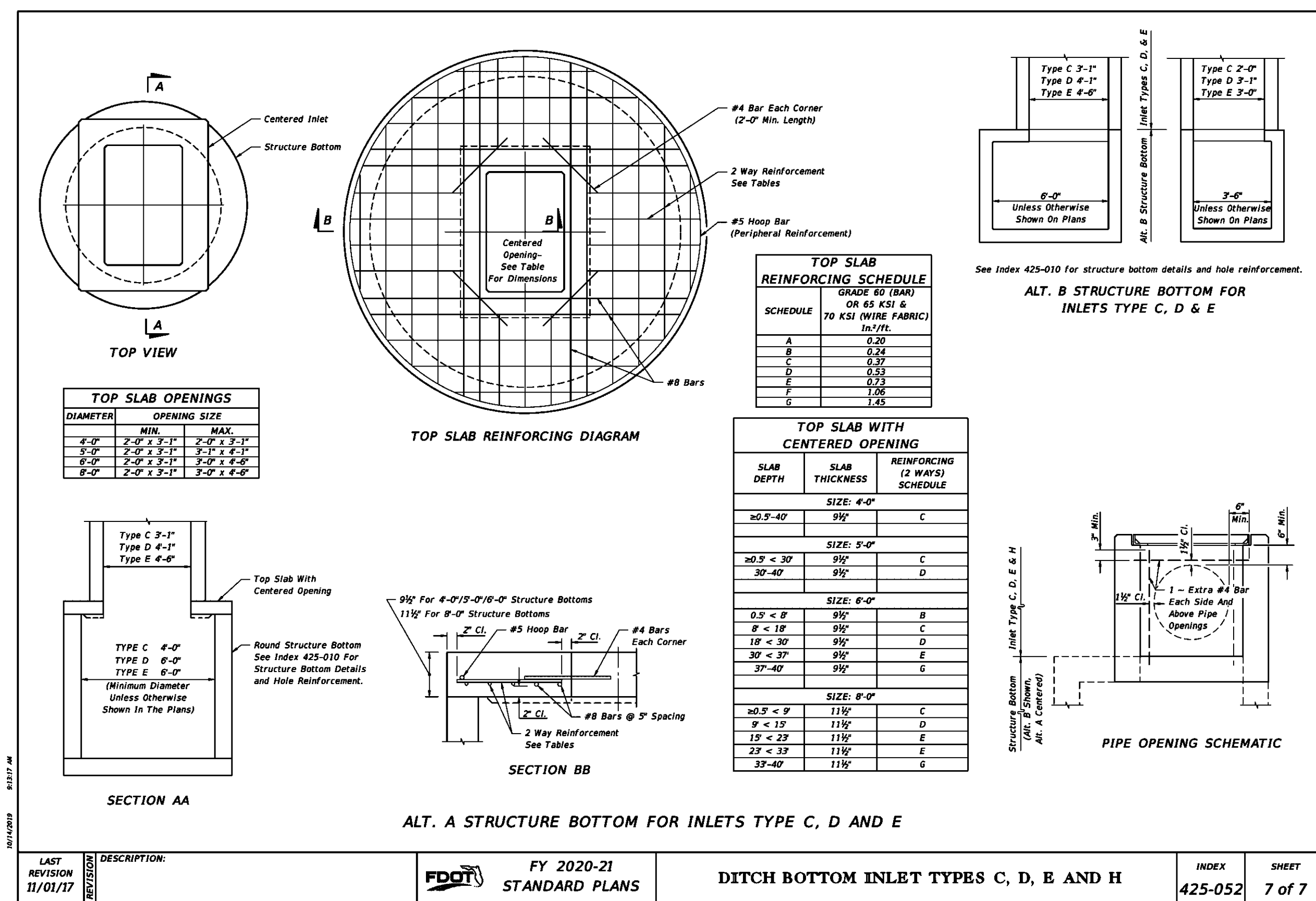
449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9861  
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**CHERRY STREET DRAINAGE IMPROVEMENTS (JAN DR TO ROGERS POND)**

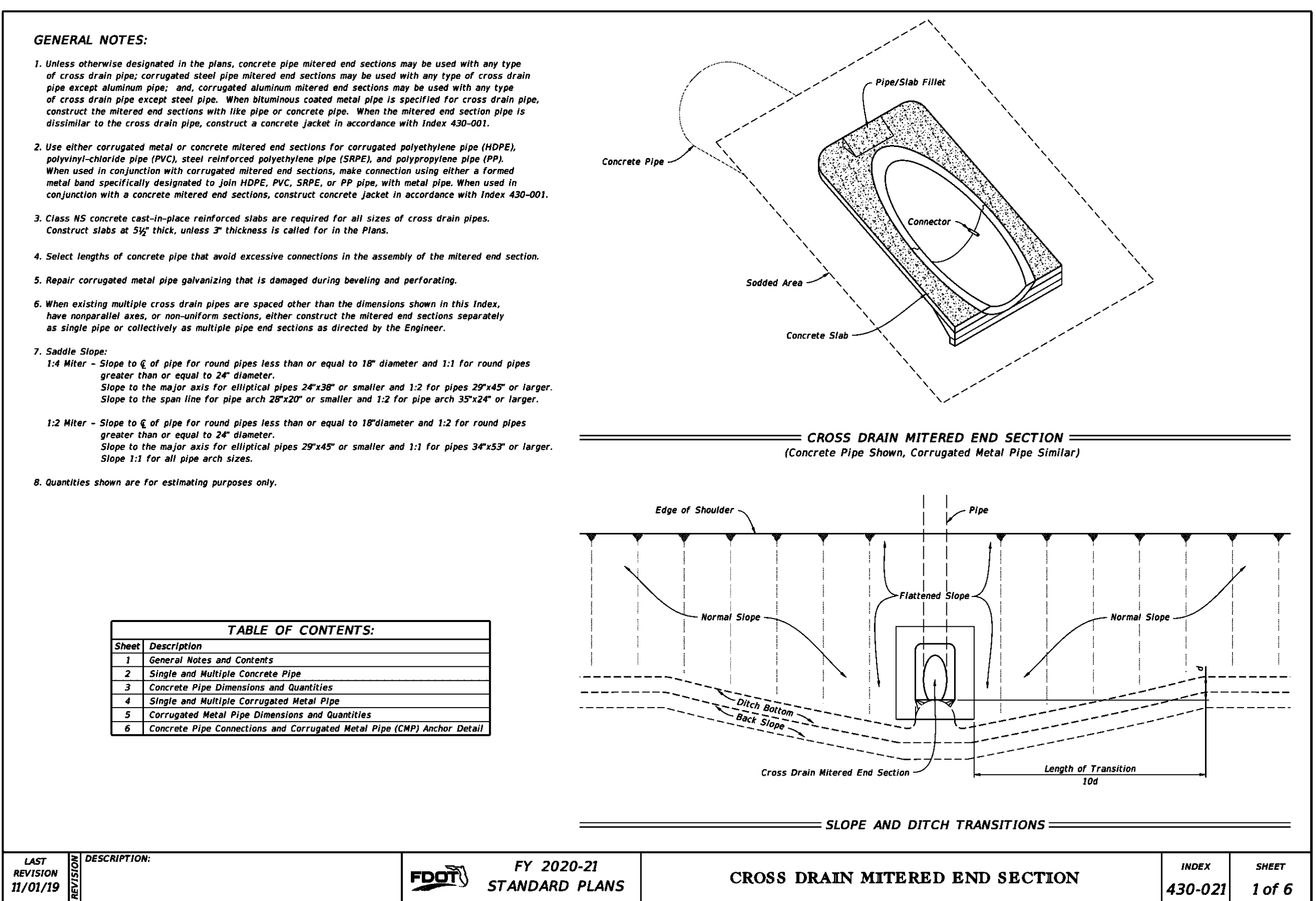
PROJECT NO:	27651.01	DESIGNED BY:	MIL	DATE:	
DESIGNED BY:	MIL	DRAWN BY:	ROG	DATE:	
CHK'D BY:	MIL	PROJ. MGR:	JCP	DATE:	
NOT RELEASED FOR CONSTRUCTION BY:		DATE:			

**FOOT DETAILS**

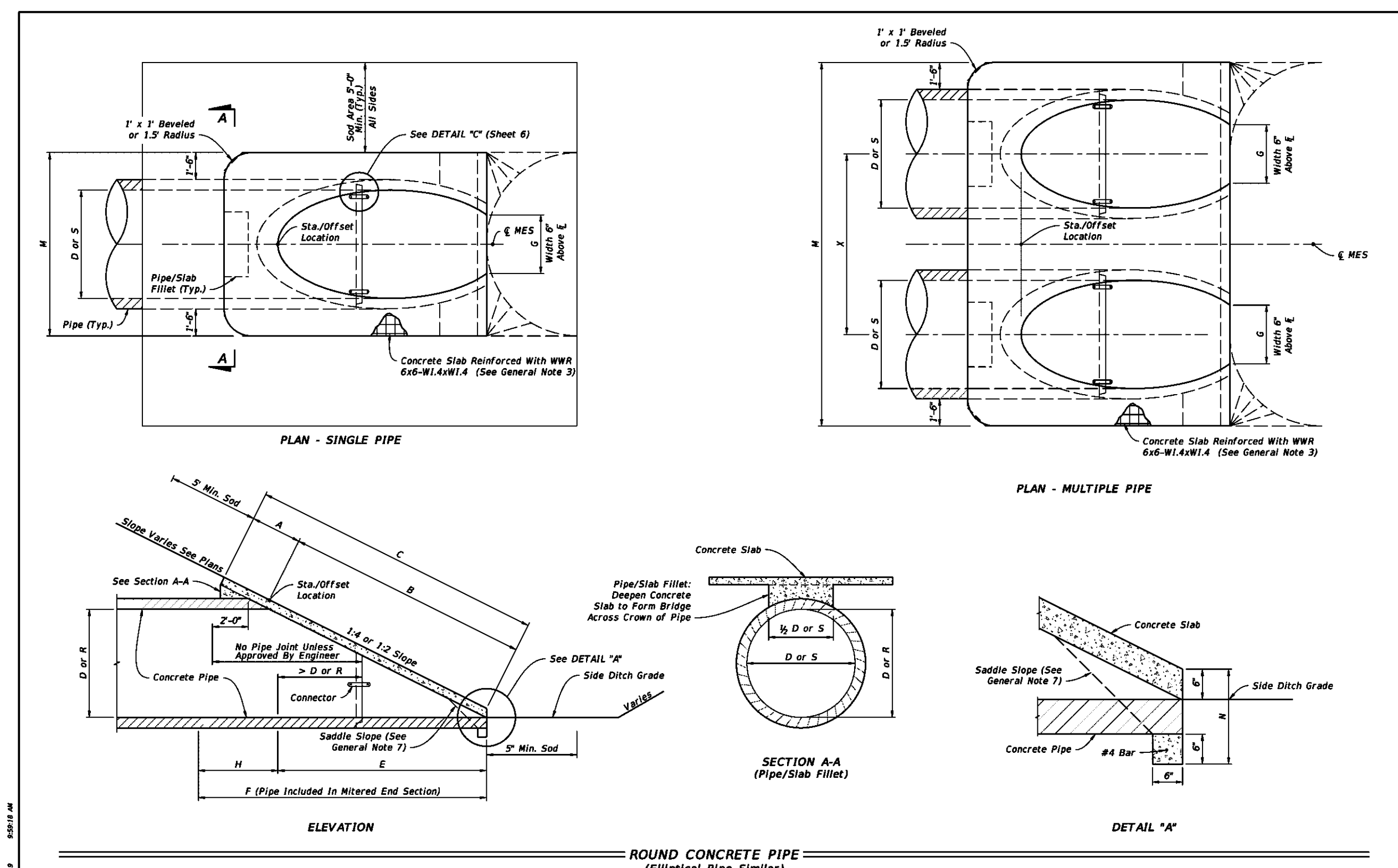
**C-904**



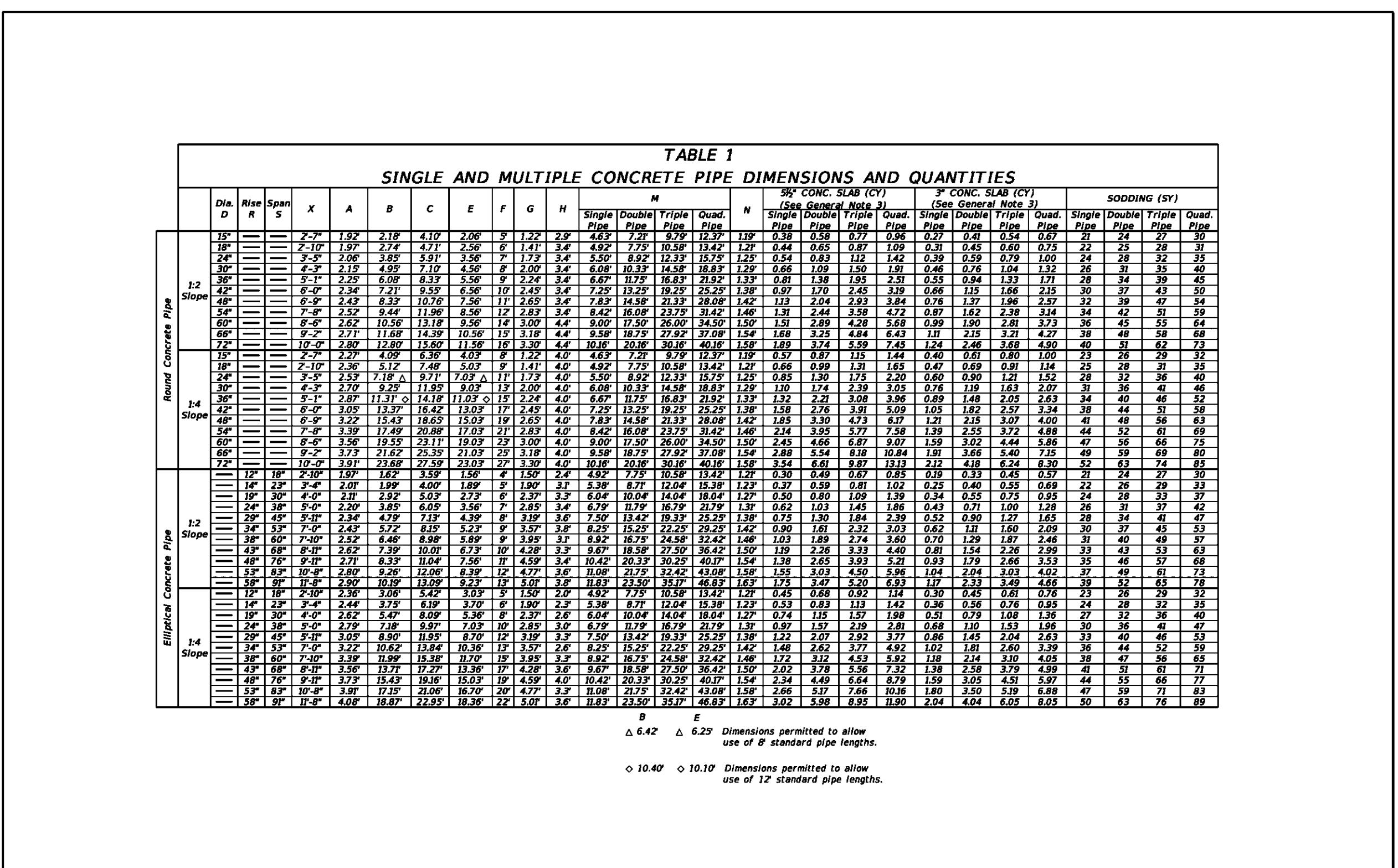
LAST REVISION 11/01/19 DESCRIPTION: FDOT FY 2020-21 STANDARD PLANS DITCH BOTTOM INLET TYPES C, D, E AND H INDEX 425-052 SHEET 7 of 7



LAST REVISION 11/01/19 DESCRIPTION: FDOT FY 2020-21 STANDARD PLANS CROSS DRAIN MITERED END SECTION INDEX 430-021 SHEET 1 of 6



LAST REVISION 11/01/19 DESCRIPTION: FDOT FY 2020-21 STANDARD PLANS CROSS DRAIN MITERED END SECTION INDEX 430-021 SHEET 2 of 6



LAST REVISION 11/01/19 DESCRIPTION: FDOT FY 2020-21 STANDARD PLANS CROSS DRAIN MITERED END SECTION INDEX 430-021 SHEET 3 of 6

**BASKERVILLE-DONOVAN, INC.**  
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**CHERRY STREET  
DRAINAGE IMPROVEMENTS  
(JAN DR TO ROGERS  
POND)**

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NO.	DATE	APPR.	REVISION/ACTION TAKEN

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PROJECT NO: 27651.01  
DESIGNED BY: MDL  
DRAWN BY: RGC  
CHK'D BY: MDL  
PROJ. MGR: JCP  
DATE: MAR 2022

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**FDOT DETAILS**

**C-905**

**PLAN - SINGLE PIPE**

**PLAN - MULTIPLE PIPE**

**SECTION B-B (Pipe/Slab Filler)**

**ELEVATION**

**ARCHED CORRUGATED METAL PIPE (Round Pipe Similar)**

NOTE: See Table 2 on Sheet 5 for Dimensions and Quantities.

LAST REVISION 11/01/19	DESCRIPTION: FDOT FY 2020-21 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX 430-021	SHEET 4 of 6
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**TABLE 2**

**SINGLE AND MULTIPLE CORRUGATED METAL PIPE DIMENSIONS AND QUANTITIES**

Dia. D or S	Rise S	Span	X	A	B	C	E	F	G	H	90° CONC. SLAB (CY)				30° CONC. SLAB (CY)				SODDING (CY)				
											Single	Double	Triple	Quad.	Single	Double	Triple	Quad.	Single	Double	Triple	Quad.	
15"	2'-0"	2'-0"	1.50	1.60	4.10	1.5	5.0	1.25	3.5	4.5	6.5	1.04	0.55	0.62	0.71	0.26	0.43	0.51	0.61	0.19	0.32	0.37	0.43
18"	2'-0"	2'-0"	1.50	1.60	4.10	1.5	5.0	1.25	3.5	4.5	6.5	1.04	0.55	0.62	0.71	0.26	0.43	0.51	0.61	0.19	0.32	0.37	0.43
24"	2'-0"	2'-0"	1.50	1.60	4.10	1.5	5.0	1.25	3.5	4.5	6.5	1.04	0.55	0.62	0.71	0.26	0.43	0.51	0.61	0.19	0.32	0.37	0.43
30"	2'-0"	2'-0"	1.50	1.60	4.10	1.5	5.0	1.25	3.5	4.5	6.5	1.04	0.55	0.62	0.71	0.26	0.43	0.51	0.61	0.19	0.32	0.37	0.43
36"	2'-0"	2'-0"	1.50	1.60	4.10	1.5	5.0	1.25	3.5	4.5	6.5	1.04	0.55	0.62	0.71	0.26	0.43	0.51	0.61	0.19	0.32	0.37	0.43
42"	2'-0"	2'-0"	1.50	1.60	4.10	1.5	5.0	1.25	3.5	4.5	6.5	1.04	0.55	0.62	0.71	0.26	0.43	0.51	0.61	0.19	0.32	0.37	0.43
48"	2'-0"	2'-0"	1.50	1.60	4.10	1.5	5.0	1.25	3.5	4.5	6.5	1.04	0.55	0.62	0.71	0.26	0.43	0.51	0.61	0.19	0.32	0.37	0.43
54"	2'-0"	2'-0"	1.50	1.60	4.10	1.5	5.0	1.25	3.5	4.5	6.5	1.04	0.55	0.62	0.71	0.26	0.43	0.51	0.61	0.19	0.32	0.37	0.43
60"	2'-0"	2'-0"	1.50	1.60	4.10	1.5	5.0	1.25	3.5	4.5	6.5	1.04	0.55	0.62	0.71	0.26	0.43	0.51	0.61	0.19	0.32	0.37	0.43

NOTE: See Table 2 on Sheet 5 for Dimensions and Quantities.

LAST REVISION 11/01/19	DESCRIPTION: FDOT FY 2020-21 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX 430-021	SHEET 5 of 6
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**TONGUE AND GROOVE CONNECTOR DETAIL**

**BELL AND SPIGOT CONNECTOR DETAIL**

**STEEL BAR**

**CONCRETE PIPE CONNECTION DETAIL (DETAIL "C")**

**CORRUGATED METAL PIPE (CMP) ANCHOR DETAIL (DETAIL "D")**

**NOTES:**

1. Anchors required for CMP only.
2. Use galvanized steel for all anchors, nuts, and washers.
3. Bond anchor where required to center in concrete slab.
4. Repair damaged surfaces after bonding.
5. Space anchors a distance equal to four (4) corrugations.
6. Place the anchors in the outside crest of corrugation.
7. Place flat washers on inside wall of pipe.
8. Drill or punch holes in the mitered end pipe; burning not permitted.
9. A 6" x 1/2" bolt substitution is permitted.

Bolt Dia.	Pipe Dia.
3/8"	15" to 30"
1/2"	42" to 72"

NOTE: See Table 2 on Sheet 5 for Dimensions and Quantities.

LAST REVISION 11/01/19	DESCRIPTION: FDOT FY 2020-21 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX 430-021	SHEET 6 of 6
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**GENERAL NOTES:**

1. Use Class I concrete.
2. Reinforcing steel is either Grade 40 or 60.
3. Endwalls may be cast in place or precast concrete. (Additional reinforcement necessary for handling precast units will be determined by the Contractor or the supplier.)
4. Chamfer all exposed edges and corners to 1/4".
5. Endwall dimensions, locations and positions are for round and elliptical concrete pipe and for round and pipe-arch corrugated metal pipe. Round concrete pipe shown.
6. On outfall ditches with side slopes flatter than 1:1.5 provide 20° transitions from the endwall to the flatter side slopes, right of way permitting.
7. Construct front slope and ditch transitions in accordance with Index 430-001.
8. Quantities shown are for estimating purposes only.

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Sheet	Description
1	General Notes and Contents
2	Concrete Endwall Details
3	Concrete and Metal Pipe Tables
4	Spacing For Multiple Pipes

**STRAIGHT CONCRETE ENDWALL**

NOTE: See Table 2 on Sheet 5 for Dimensions and Quantities.

LAST REVISION 11/01/19	DESCRIPTION: FDOT FY 2020-21 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX 430-030	SHEET 1 of 4
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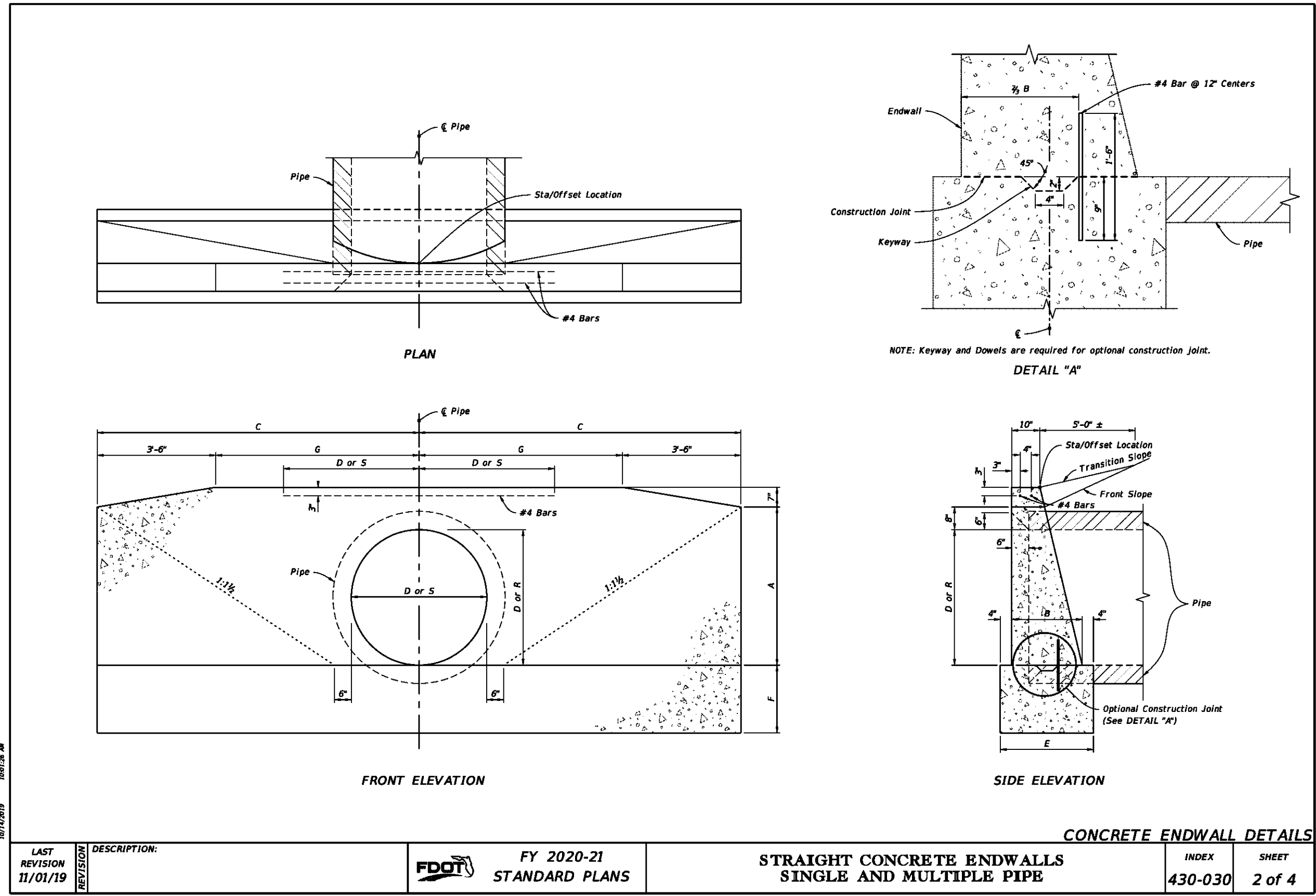
449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9961  
ENGINEERING BUSINESS: EB-0000040  
Pensacola - Panama City Beach - Tallahassee - Mobile

**CHERRY STREET  
DRAINAGE IMPROVEMENTS  
(JAN DR TO ROGERS  
POND)**

PROJECT NO:	27651.01
DESIGNED BY:	MIL
DRAWN BY:	RGG
CHK'D BY:	MIL
PROJ. MGR:	JCP
DATE:	MAR 2022

**FDOT DETAILS**

**C-906**



**ROUND CONCRETE AND CORRUGATED METAL PIPE**

Pipe Dia.	Opening Area (SF)		Dimensions															Class I Concrete (CY)															Pipe Dia.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Number Of Pipes		A	B	C	E	F	G	Y	X	Single					Double					Triple					Quadruple																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
18"	24"	30"	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	0"	15"	30"	45"	60"	0"	15"	30"	45"	60"	0"	15"	30"	45"	60"	0"	15"	30"	45"	60"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
18"	123	246	3.89	4.92	5.94	6.97	7.99	8.99	9.99	10.99	11.99	12.99	13.99	14.99	15.99	1.59	2.04	2.49	2.94	3.39	3.84	4.29	4.74	5.19	5.64	6.09	6.54	6.99	7.44	7.89	8.34	8.79	9.24	9.69	10.14	10.59	11.04	11.49	11.94	12.39	12.84	13.29	13.74	14.19	14.64	15.09	15.54	15.99	16.44	16.89	17.34	17.79	18.24	18.69	19.14	19.59	20.04	20.49	20.94	21.39	21.84	22.29	22.74	23.19	23.64	24.09	24.54	24.99	25.44	25.89	26.34	26.79	27.24	27.69	28.14	28.59	29.04	29.49	29.94	30.39	30.84	31.29	31.74	32.19	32.64	33.09	33.54	33.99	34.44	34.89	35.34	35.79	36.24	36.69	37.14	37.59	38.04	38.49	38.94	39.39	39.84	40.29	40.74	41.19	41.64	42.09	42.54	42.99	43.44	43.89	44.34	44.79	45.24	45.69	46.14	46.59	47.04	47.49	47.94	48.39	48.84	49.29	49.74	50.19	50.64	51.09	51.54	51.99	52.44	52.89	53.34	53.79	54.24	54.69	55.14	55.59	56.04	56.49	56.94	57.39	57.84	58.29	58.74	59.19	59.64	60.09	60.54	60.99	61.44	61.89	62.34	62.79	63.24	63.69	64.14	64.59	65.04	65.49	65.94	66.39	66.84	67.29	67.74	68.19	68.64	69.09	69.54	69.99	70.44	70.89	71.34	71.79	72.24	72.69	73.14	73.59	74.04	74.49	74.94	75.39	75.84	76.29	76.74	77.19	77.64	78.09	78.54	78.99	79.44	79.89	80.34	80.79	81.24	81.69	82.14	82.59	83.04	83.49	83.94	84.39	84.84	85.29	85.74	86.19	86.64	87.09	87.54	87.99	88.44	88.89	89.34	89.79	90.24	90.69	91.14	91.59	92.04	92.49	92.94	93.39	93.84	94.29	94.74	95.19	95.64	96.09	96.54	96.99	97.44	97.89	98.34	98.79	99.24	99.69	100.14	100.59	101.04	101.49	101.94	102.39	102.84	103.29	103.74	104.19	104.64	105.09	105.54	105.99	106.44	106.89	107.34	107.79	108.24	108.69	109.14	109.59	110.04	110.49	110.94	111.39	111.84	112.29	112.74	113.19	113.64	114.09	114.54	114.99	115.44	115.89	116.34	116.79	117.24	117.69	118.14	118.59	119.04	119.49	119.94	120.39	120.84	121.29	121.74	122.19	122.64	123.09	123.54	123.99	124.44	124.89	125.34	125.79	126.24	126.69	127.14	127.59	128.04	128.49	128.94	129.39	129.84	130.29	130.74	131.19	131.64	132.09	132.54	132.99	133.44	133.89	134.34	134.79	135.24	135.69	136.14	136.59	137.04	137.49	137.94	138.39	138.84	139.29	139.74	140.19	140.64	141.09	141.54	141.99	142.44	142.89	143.34	143.79	144.24	144.69	145.14	145.59	146.04	146.49	146.94	147.39	147.84	148.29	148.74	149.19	149.64	150.09	150.54	150.99	151.44	151.89	152.34	152.79	153.24	153.69	154.14	154.59	155.04	155.49	155.94	156.39	156.84	157.29	157.74	158.19	158.64	159.09	159.54	159.99	160.44	160.89	161.34	161.79	162.24	162.69	163.14	163.59	164.04	164.49	164.94	165.39	165.84	166.29	166.74	167.19	167.64	168.09	168.54	168.99	169.44	169.89	170.34	170.79	171.24	171.69	172.14	172.59	173.04	173.49	173.94	174.39	174.84	175.29	175.74	176.19	176.64	177.09	177.54	177.99	178.44	178.89	179.34	179.79	180.24	180.69	181.14	181.59	182.04	182.49	182.94	183.39	183.84	184.29	184.74	185.19	185.64	186.09	186.54	186.99	187.44	187.89	188.34	188.79	189.24	189.69	190.14	190.59	191.04	191.49	191.94	192.39	192.84	193.29	193.74	194.19	194.64	195.09	195.54	195.99	196.44	196.89	197.34	197.79	198.24	198.69	199.14	199.59	200.04	200.49	200.94	201.39	201.84	202.29	202.74	203.19	203.64	204.09	204.54	204.99	205.44	205.89	206.34	206.79	207.24	207.69	208.14	208.59	209.04	209.49	209.94	210.39	210.84	211.29	211.74	212.19	212.64	213.09	213.54	213.99	214.44	214.89	215.34	215.79	216.24	216.69	217.14	217.59	218.04	218.49	218.94	219.39	219.84	220.29	220.74	221.19	221.64	222.09	222.54	222.99	223.44	223.89	224.34	224.79	225.24	225.69	226.14	226.59	227.04	227.49	227.94	228.39	228.84	229.29	229.74	230.19	230.64	231.09	231.54	231.99	232.44	232.89	233.34	233.79	234.24	234.69	235.14	235.59	236.04	236.49	236.94	237.39	237.84	238.29	238.74	239.19	239.64	240.09	240.54	240.99	241.44	241.89	242.34	242.79	243.24	243.69	244.14	244.59	245.04	245.49	245.94	246.39	246.84	247.29	247.74	248.19	248.64	249.09	249.54	249.99	250.44	250.89	251.34	251.79	252.24	252.69	253.14	253.59	254.04	254.49	254.94	255.39	255.84	256.29	256.74	257.19	257.64	258.09	258.54	258.99	259.44	259.89	260.34	260.79	261.24	261.69	262.14	262.59	263.04	263.49	263.94	264.39	264.84	265.29	265.74	266.19	266.64	267.09	267.54	267.99	268.44	268.89	269.34	269.79	270.24	270.69	271.14	271.59	272.04	272.49	272.94	273.39	273.84	274.29	274.74	275.19	275.64	276.09	276.54	276.99	277.44	277.89	278.34	278.79	279.24	279.69	280.14	280.59	281.04	281.49	281.94	282.39	282.84	283.29	283.74	284.19	284.64	285.09	285.54	285.99	286.44	286.89	287.34	287.79	288.24	288.69	289.14	289.59	290.04	290.49	290.94	291.39	291.84	292.29	292.74	293.19	293.64	294.09	294.54	294.99	295.44	295.89	296.34	296.79	297.24	297.69	298.14	298.59	299.04	299.49	299.94	300.39	300.84	301.29	301.74	302.19	302.64	303.09	303.54	303.99	304.44	304.89	305.34	305.79	306.24	306.69	307.14	307.59	308.04	308.49	308.94	309.39	309.84	310.29	310.74	311.19	311.64	312.09	312.54	312.99	313.44	313.89	314.34	314.79	315.24	315.69	316.14	316.59	317.04	317.49	317.94	318.39	318.84	319.29	319.74	320.19	320.64	321.09	321.54	321.99	322.44	322.89	323.34	323.79	324.24	324.69	325.14	325.59	326.04	326.49	326.94	327.39	327.84	328.29	328.74	329.19	329.64	330.09	330.54	330.99	331.44	331.89	332.34	332.79	333.24	333.69	334.14	334.59	335.04	335.49	335.94	336.39	336.84	337.29	337.74	338.19	338.64	339.09	339.54	339.99	340.44	340.89	341.34	341.79	342.24	342.69	343.14	343.59	344.04	344.49	344.94	345.39	345.84	346.29	346.74	347.19	347.64	348.09	348.54	348.99	349.44	349.89	350.34	350.79	351.24	351.69	352.14	352.59	353.04	353.49	353.94	354.39	354.84	355.29	355.74	356.19	356.64	357.09	357.54	357.99	358.44	358.89	359.34	359.79	360.24	360.69	361.14	361.59	362.04	362.49	362.94	363.39	363.84	364.29	364.74	365.19	365.64	366.09	366.54	366.99	367.44	367.89	368.34	368.79	369.24	369.69	370.14	370.59	371.04	371.49	371.94	372.39	372.84	373.29	373.74	374.19	374.64	375.09	375.54	375.99	376.44	376.89	377.34	377.79	378.24	378.69	379.14	379.59	380.04	380.49	380.94	381.39	381.84	382.29	382.74	383.19	383.64	384.09	384.54	384.99	385.44	385.89	386.34	386.79	387.24	387.69	388.14	388.59	389.04	389.49	389.94	390.39	390.84	391.29	391.74	392.19	392.64	393.09	393.54	393.99	394.44	394.89	395.34	395.79	396.24	396.69	397.14	397.59	398.04	398.49	398.94	399.39	399.84	400.29	400.74	401.19	401.64	402.09	402.54	402.99	403.44	403.89	404.34	404.79	405.24	405.69	406.14	406.59	407.04	407.49	407.94	408.39	408.84	409.29	409.74	410.19	410.64	411.09	411.54	411.99	412.44	412.89	413.34	413.79	414.24	414.69	415.14	415.59	416.04	416.49	416.94	417.39	417.84	418.29	418.74	419.19	419.64	420.09	420.54	420.99	421.44	421.89	422.34	422.79	423.24	423.69	424.14	424.59	425.04	425.49	425.94	426.39	426.84	427.29	427.74	428.19	428.64	429.09	429.54	429.99	430.44	430.89	431.34	431.79	432.24	432.69	433.14	433.59	434.04	434.49	434.94	435.39	435.84	436.29	436.74	437.19	437.64