



CHANGE ORDER

Project Number: IFB#24-111 **Contractor:** B&B Underground Construction Inc.

Project Name: Parrot Cove Stormwater Improvements Project

Change Order Number: 02

Change Order Effective Date: March 24, 2025 **Contractor Phone:** 561 249 0341

Change Order Type: Lump Sum **Existing Purchase Order Number:** _____

Description of Change:

The project consist of stormwater improvements at four locations on the Lake Worth Beach golf course.

Site 4. (4th Avenue North, Sheet C-06) The contract drawings depict the existing pipe and Headwall to be approximately 26 feet from the actual edge of water into the intercoastal waterway. Pursuant to the permit conditions, the Contractor is not permitted to do work beyond the water line. This section of pipe is in very bad condition which facilitates significant infiltration. The dewatering of this pipe in order to complete the necessary repairs is not possible due to this amont of infiltration.

This Change Order is to compensate the Contractor in the construction of a new headwall within the limits set by the permit conditions and remove the existing Headwall and pipe which currently poses a navigational hazard. The pipe will then be cleaned and the remaining of the construction work can continue.

The contractor will be compensated to make this additional work effort possible in the amount of \$82,434.61. This Change Order is to increase the contract by \$82,434.61. Additionally, the contract time will be increased by Twenty (20) working days. The goal is still to meet the project grant deadline of August 30, 2025.

1	2	3	4	5	6
Item No.	Description	Qty	Unit	Unit Price	Increase In Contract Price
1	See Attached Change Order No. 2 Backup documentation	1	Ea	\$82,434.61	\$82,434.61
	Total Amount:				\$ 82,434.61

Price of Original Contract: \$ 1,222,715.00 (authorized by Commission on 9/24/2024
Agenda Item (# E)

Current Price of Contract (including Change Orders): \$1,229,416.14

Price of Current Change Order: \$82,434.61

New Contract Price: \$1,311,850.75

Basis of Price Change: ___ Unit Price ___ Time & Material X Lump Sum

Contract Time Change

___ No Change X Extended ___ Decreased by 20 work days

The CONTRACTOR and the OWNER agree that this CHANGE ORDER represents the complete agreement of the parties with respect to these matters as of the date of this CHANGE ORDER. By approving this Change Order, the CONTRACTOR releases any and all claims that it may have against the OWNER under the subject contract including, but not limited to claims for equitable adjustments, which occurred or accrued prior to the effective date of this CHANGE ORDER.

COMPLIANCE WITH SECTION 787.06 By Signing this change order before a notary public and taking an oath under the penalty of perjury, the CONTRACTOR attests and warrants that the CONTRACTOR does not use coercion for labor or services as defined in section 787.06, Florida Statutes (2024).

This Change Order may be executed in counterparts and is not effective until approved by either the City Manager or City Commission (as designated on the last page of this Change Order).

Approved by:

V. Baker
(Department Director)

4/10/25

(Date)

IN WITNESS WHEREOF, the OWNER/CITY has approved this Change Order No. _____ to the _____ Project on _____, 2025.

CITY OF LAKE WORTH BEACH, FLORIDA

By: _____
Betty Resch, Mayor

ATTEST:

By: _____
Melissa Ann Coyne, City Clerk

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY:

APPROVED FOR FINANCIAL
SUFFICIENCY:

By: _____
Glen J. Torcivia, City Attorney

By: _____
Yannick Ngendahayo, Financial Services Director

CONTRACTOR: B&B Underground Construction Inc.

[Corporate Seal]

By: _____

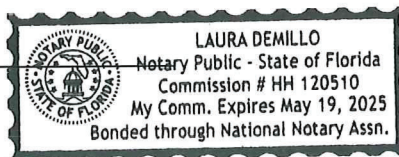
Print Name: Stephen Decker

Title: President

STATE OF FLORIDA
(COUNTY OF Palm Beach)

The Foregoing Affidavit of Bidder regarding Non-Collusion and Public Entity Crime was acknowledged before me by means of physical presence or online notarization on this 24 day of March 2025, by Stephen Decker, as the President [title] of B&B Underground Construction Inc, A Corporation, which is authorized to do business in the State of Florida, who is personally known to me or who has produced _____ as identification, and who did take an oath under penalty of perjury that the facts stated with regard to section 787.06, Florida Statutes, are true and correct, and that he or she is duly authorized to execute the foregoing instrument and bind B&B Underground Construction, Inc. to the same.

Laura Demillo
Notary Public Signature
Notary Seal:



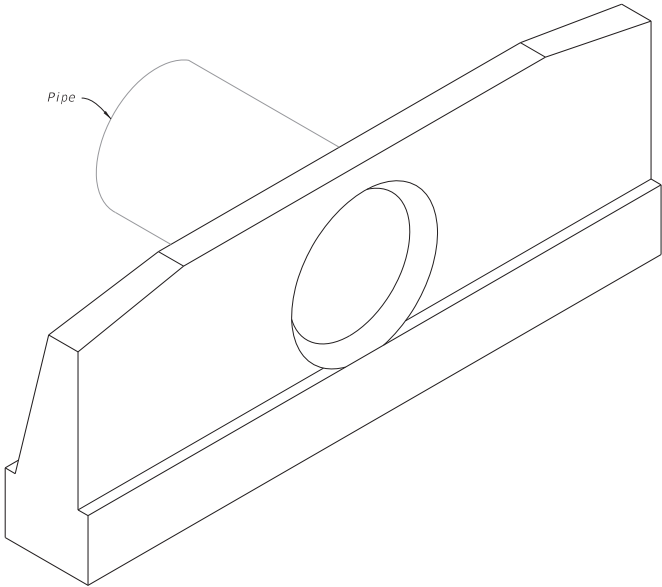
Parrot Cove City of Lake Worth Beach Site 4		DESCRIPTION The contract drawings depict the existing pipe and Headwall to be approximately 26 feet from the actual edge of water Pursuant to the Permit Conditions, the Contractor is not permitted to do work beyond the water line. The section of existing pipe is in very bad condition which facilitates significant infiltration. This amount of infiltration makes dewatering the impossible. Price Proposal to remove and replace New Headwall in location as shown and remove the existing Navigational Hazard			
Extra Work Item No. 04					
Labor Requirements	Qty	Regular Hr	Overtime Hr	Labor Rate*	Amount
Superintendent	1.00	20.00	0.00	\$123.78	\$ 2,475.60
Foreman	1.00	40.00	0.00	\$80.00	\$ 3,200.00
Operator	2.00	40.00	0.00	\$69.30	\$ 5,544.00
Pipelayer	1.00	40.00	0.00	\$54.45	\$ 2,178.00
Laborer	3.00	40.00	0.00	\$51.15	\$ 6,138.00
Truck Driver	1.00	24.00	0.00	\$62.10	\$ 1,490.40
		* Labor Rate Includes Burden			
Sub Total :					\$ 21,026.00
Equipment Requirements	Qty	Rate/hr	Fuel/Maintenance	Duration	Amount
Cat 325C Excavator	1.00	\$137.16	\$27.43	40.00	\$ 6,583.68
Komatsu PC300 Excavator	1.00	\$137.16	\$27.43	40.00	\$ 6,583.68
544 J Loader	1.00	\$57.62	\$11.52	40.00	\$ 2,765.76
Kubota 75-3	0.00	\$48.16	\$9.63	40.00	\$ -
2" Pump & Hoses	1.00	\$9.75	\$1.95	40.00	\$ 468.00
Dump Truck	1.00	\$48.29	\$9.66	24.00	\$ 1,390.75
8" Dewatering Pump w/Header	1.00	\$62.34	\$12.47	40.00	\$ 2,992.32
Misc. Tools & small equipment	1.00	\$6.44	\$1.29	40.00	\$ 309.12
Foreman's Transportation F-250 Pick-Up Truck	1.00	\$11.12	\$2.22	40.00	\$ 533.76
Superintendent's Transportation 2500 HD	1.00	\$11.12	\$2.22	20.00	\$ 266.88
Grading Tractor	0.00	\$62.33	\$12.47	40.00	\$ -
Ford Sweeper	0.00	\$23.45	\$4.69	40.00	\$ -
Plate Compactors	2.00	\$11.42	\$2.28	40.00	\$ 1,096.32
					\$ 22,990.27
* Rates are based on Blue Book Monthly rates divided by 176 for hourly rate					
Material Requirements	Qty	Unit	Rate	Tax	Amount
Concrete	1.00	CY	223.19	15.62	\$ 238.81
Brick	1.00	Cub	640.00	44.80	\$ 684.80
60 inch Elliptical Headwall	1.00	Ea	8,732.19	611.25	\$ 9,343.44
57 Stone	1.00	Load	831.50	58.21	\$ 889.71
Sub Total :					\$ 11,156.76
Subcontractor Requirements	Qty	Unit	Rate		Amount
Crane	1.0	Day	\$8,750.00		\$ 8,750.00
Speedy Concrete Cutting	1.00	LS	\$4,329.18		\$ 4,329.18
Sub Total :					\$ 13,079.18
Misc. Requirements	Qty	Unit	Rate	Duration (hrs)	Amount
Disposal Fee	1.00	LS	\$1,750.00		\$ 1,750.00
					\$ 1,750.00
Sub Total :					\$ 70,002.21
Increased Bond& Insurance				2.40%	\$ 1,680.05
Profit				15%	\$ 10,752.34
TOTAL DIRECT COST :					\$ 82,434.61
Contract Time Extension				10 days	
Remarks					

C.O. #2
4th Ave. N Location
48"x76" elliptical rcp
equivalent 60" round

GENERAL NOTES:

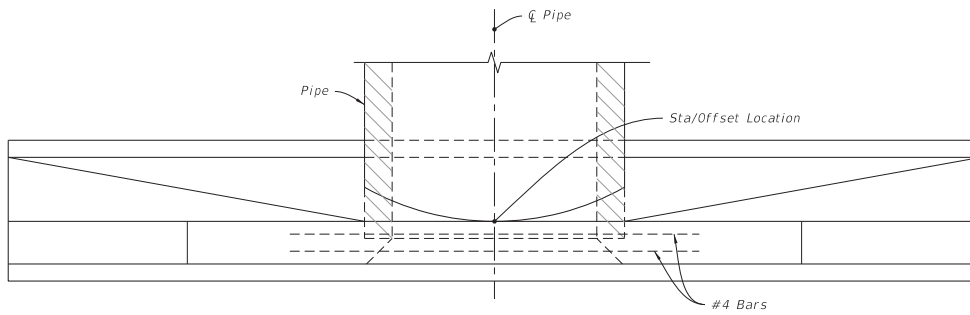
- 1. Use Class II concrete.
- 2. Reinforcing steel is either Grade 40 or 60.
- 3. Endwalls may be cast in place or precast concrete. (Additional reinforcement necessary for handling precast units will be determined by the Contractor or the supplier).
- 4. Chamfer all exposed edges and corners to 3/4".
- 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.

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

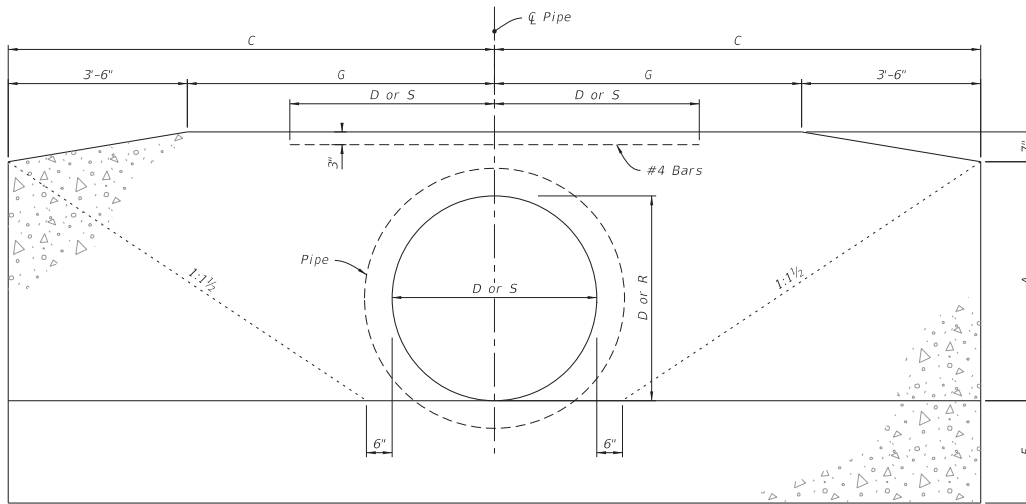


STRAIGHT CONCRETE ENDWALL

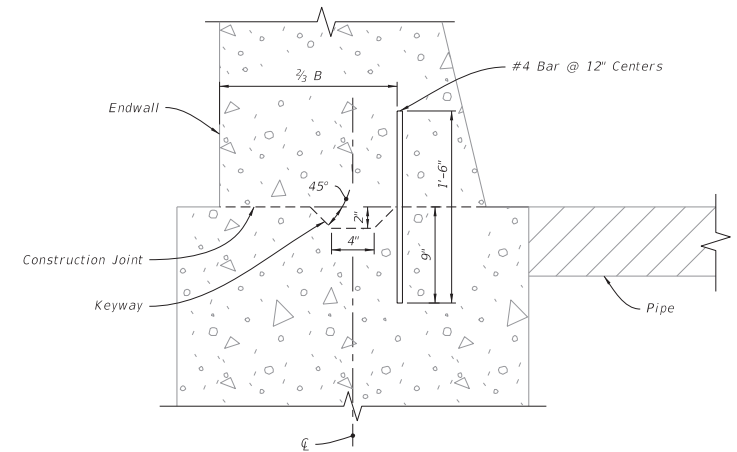
9/10/2024 12:42:57 PM



PLAN

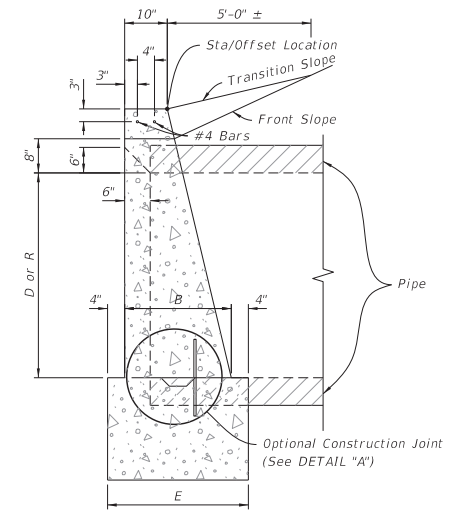


FRONT ELEVATION



NOTE: Keyway and Dowels are required for optional construction joint.

DETAIL "A"



SIDE ELEVATION

CONCRETE ENDWALL DETAILS

LAST REVISION 11/01/19	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX 430-030	SHEET 2 of 4
------------------------------	--------------	------	------------------------------	--	------------------	-----------------

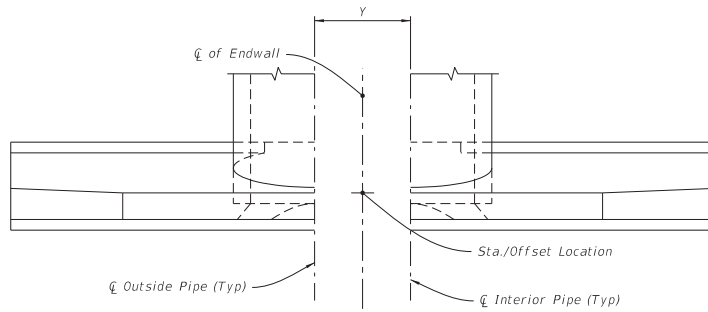
ROUND CONCRETE AND CORRUGATED METAL PIPE

Pipe	Dia. D	Opening Area (SF)				Dimensions												Class II Concrete (CY)																Dia. D
		Number Of Pipes				A	B	C	E	F	G	Y	X				Single	Number Of Pipe And Skew Angle Of Pipe (α)								Triple	Quadruple							
		1	2	3	4								0°	15°	30°	45°		0°	15°	30°	45°	0°	15°	30°	45°		0°	15°	30°	45°				
Concrete	15"	1.23	2.46	3.69	4.92	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"	2'-7"	2'-7"	2'-8"	3'-0"	3'-8"	1.23	1.59	1.60	1.65	1.74	1.94	1.96	2.05	2.23	2.30	2.34	2.47	2.74	15"				
	18"	1.77	3.54	5.31	7.08	2'-2"	1'-3"	4'-6"	1'-11"	1'-3"	1'-0"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.56	1.99	2.01	2.06	2.17	2.43	2.46	2.56	2.79	2.86	2.91	3.06	3.40	18"				
	21"	2.41	4.82	7.23	9.64	2'-5"	1'-4"	5'-0"	2'-0"	1'-4"	1'-6"	3'-2"	3'-2"	3'-3"	3'-8"	4'-6"	1.97													21"				
	24"	3.14	6.28	9.42	12.56	2'-8"	1'-4"	5'-6"	2'-0"	1'-4"	2'-0"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	2.24													24"				
	27"	3.98	7.96	11.94	15.92	2'-11"	1'-5"	6'-0"	2'-1"	1'-5"	2'-6"	3'-10"	3'-10"	4'-0"	4'-5"	5'-5"	2.73	2.82	2.84	2.91	3.06	3.39	3.43	3.57	3.87	3.97	4.03	4.24	4.69	27"				
	30"	4.91	9.82	14.73	19.64	3'-2"	1'-6"	6'-6"	2'-2"	1'-6"	3'-0"	4'-3"	4'-3"	4'-5"	4'-11"	6'-0"	3.26	4.13	4.16	4.26	4.49	4.98	5.04	5.25	5.69	5.84	5.93	6.24	6.91	30"				
	36"	7.07	14.14	21.21	28.28	3'-8"	1'-8"	7'-6"	2'-4"	1'-8"	4'-0"	5'-1"	5'-1"	5'-3"	5'-10"	7'-2"	4.53	5.73	5.77	5.92	6.23	6.92	7.00	7.29	7.91	8.13	8.26	8.69	9.62	36"				
	42"	9.62	19.24	28.86	38.48	4'-2"	1'-10"	8'-6"	2'-6"	2'-0"	5'-0"	6'-0"	6'-0"	6'-3"	6'-11"	8'-6"	6.33	8.11	8.17	8.39	8.85	9.90	10.02	10.45	11.38	11.68	11.87	12.51	13.89	42"				
	48"	12.57	25.14	37.71	50.28	4'-8"	2'-1"	9'-6"	2'-9"	2'-0"	6'-0"	6'-9"	6'-9"	7'-0"	7'-10"	9'-7"	8.15	10.40	10.48	10.75	11.33	12.64	12.80	13.34	14.50	14.89	15.13	15.93	17.68	48"				
Corrugated Metal	54"	15.90	31.80	47.70	63.60	5'-2"	2'-6"	10'-6"	3'-2"	2'-3"	7'-0"	7'-8"	7'-8"	7'-11"	8'-10"	10'-10"	11.71	15.23	15.35	15.78	16.69	18.77	19.02	19.68	21.69	22.29	22.66	23.93	26.67	54"				
	15"	1.23	2.46	3.69	4.92	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"	2'-7"	2'-7"	2'-8"	3'-0"	3'-8"	1.24	1.62	1.63	1.68	1.78	1.99	2.02	2.11	2.30	2.37	2.41	2.75	2.84	15"				
	18"	1.77	3.54	5.31	7.08	2'-2"	1'-3"	4'-6"	1'-11"	1'-3"	1'-0"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.59	2.04	2.06	2.11	2.23	2.51	2.54	2.65	2.89	2.96	3.01	3.17	3.53	18"				
	21"	2.41	4.82	7.23	9.64	2'-5"	1'-4"	5'-0"	2'-0"	1'-4"	1'-6"	3'-2"	3'-2"	3'-3"	3'-8"	4'-6"														21"				
	24"	3.14	6.28	9.42	12.56	2'-8"	1'-4"	5'-6"	2'-0"	1'-4"	2'-0"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	2.29	2.91	2.93	3.01	3.17	3.52	3.56	3.71	4.03	4.14	4.20	4.43	4.91	24"				
	27"	3.98	7.96	11.94	15.92	2'-11"	1'-5"	6'-0"	2'-1"	1'-5"	2'-6"	3'-10"	3'-10"	4'-0"	4'-5"	5'-5"														27"				
	30"	4.91	9.82	14.73	19.64	3'-2"	1'-6"	6'-6"	2'-2"	1'-6"	3'-0"	4'-3"	4'-3"	4'-5"	4'-11"	6'-0"	3.34	4.28	4.31	4.43	4.67	5.20	5.27	5.49	5.97	6.13	6.23	6.56	7.29	30"				
	36"	7.07	14.14	21.21	28.28	3'-8"	1'-8"	7'-6"	2'-4"	1'-8"	4'-0"	5'-1"	5'-1"	5'-3"	5'-10"	7'-2"	4.64	5.95	6.00	6.15	6.49	7.25	7.34	7.65	8.33	8.57	8.71	9.18	10.20	36"				
	42"	9.62	19.24	28.86	38.48	4'-2"	1'-10"	8'-6"	2'-6"	2'-0"	5'-0"	6'-0"	6'-0"	6'-3"	6'-11"	8'-6"	6.49	8.43	8.50	8.73	9.23	10.38	10.52	10.98	11.99	12.32	12.52	13.12	14.73	42"				
48"	12.57	25.14	37.71	50.28	4'-8"	2'-1"	9'-6"	2'-9"	2'-0"	6'-0"	6'-9"	6'-9"	7'-0"	7'-10"	9'-7"	8.38	10.85	10.94	11.23	11.87	13.34	13.51	14.11	15.39	15.82	16.08	16.97	18.90	48"					
54"	15.90	31.80	47.70	63.60	5'-2"	2'-6"	10'-6"	3'-2"	2'-3"	7'-0"	7'-8"	7'-8"	7'-11"	8'-10"	10'-10"	11.77	15.35	15.48	15.90	16.83	18.93	19.18	20.04	21.89	22.51	22.89	24.17	26.96	54"					

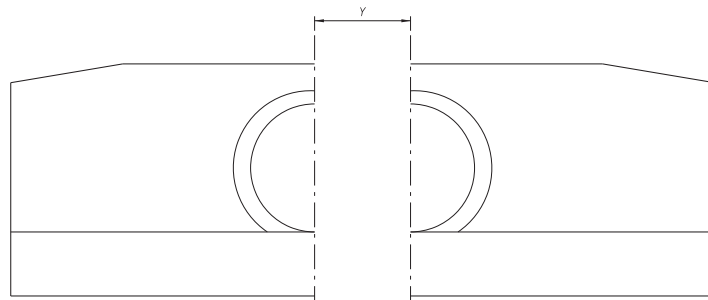
ELLIPTICAL CONCRETE AND CORRUGATED METAL PIPE ARCH

Pipe	Rise R	Span S	Opening Area (SF)				Dimensions										Class II Concrete (CY)																Rise R	Span S	Approx. Equiv. Round
			Number Of Pipes				A	B	C	E	F	G	Y	X				Single	Number Of Pipe And Skew Angle Of Pipe (α)								Triple	Quadruple							
			1	2	3	4								0°	15°	30°	45°		Double				Triple						Quadruple						
																			0°	15°	30°	45°	0°	15°	30°	45°			0°	15°	30°	45°			
Concrete	12"	18"	1.3	2.6	3.9	5.2	1'-8"	1'-2"	3'-9"	1'-10"	1'-2"	0'-3"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.09	1.45	1.46	1.51	1.60	1.80	1.82	1.91	2.09	2.16	2.20	2.33	2.60	12"	18"	15"		
	14"	23"	1.8	3.6	5.4	7.2	1'-10"	1'-3"	4'-2½"	1'-11"	1'-3"	8½"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	1.36	1.82	1.84	1.89	2.01	2.29	2.32	2.43	2.68	2.75	2.80	2.97	3.33	14"	23"	18"		
	19"	30"	3.3	6.6	9.9	13.2	2'-3"	1'-4"	5'-1½"	2'-0"	1'-4"	1'-7½"	4'-2"	4'-2"	4'-4"	4'-10"	5'-11"	1.89	2.55	2.57	2.65	2.82	3.22	3.27	3.43	3.77	3.88	3.95	4.19	4.70	19"	30"	24"		
	24"	38"	5.1	10.2	15.3	20.4	2'-8"	1'-5"	6'-3"	2'-1"	1'-5"	2'-9"	5'-2"	5'-2"	5'-4"	6'-0"	7'-4"	2.64	3.55	3.58	3.69	3.93	4.48	4.54	4.77	5.24	5.39	5.49	5.82	6.53	24"	38"	30"		
	29"	45"	7.4	14.8	22.2	29.6	3'-1"	1'-6"	7'-0"	2'-2"	1'-6"	3'-6"	6'-0"	6'-0"	6'-3"	6'-11"	8'-0"	3.32	4.48	4.52	4.66	4.96	5.64	5.72	6.00	6.60	6.80	6.92	7.34	8.24	29"	45"	36"		
	34"	53"	10.2	20.4	30.6	40.8	3'-6"	1'-7"	7'-11½"	2'-3"	1'-7"	4'-5½"	7'-1"	7'-1"	7'-4"	8'-2"	9'-0"	4.24	5.76	5.81	6.00	6.39	7.29	7.40	7.76	8.55	8.81	8.97	9.52	10.70	34"	53"	42"		
	38"	60"	12.9	25.8	38.7	51.6	3'-10"	1'-8"	8'-9"	2'-4"	1'-8"	5'-3"	7'-11"	7'-11"	8'-2"	9'-2"	11'-2"	5.22	7.16	7.23	7.46	7.96	9.10	9.24	9.70	10.71	11.05	11.25	11.95	13.46	38"	60"	48"		
	43"	68"	16.6	33.2	49.8	66.4	4'-3"	1'-10"	9'-8½"	2'-6"	1'-10"	6'-2½"	8'-10"	8'-10"	9'-2"	10'-2"	12'-6"	6.63	9.01	9.09	9.38	10.00	11.39	11.56	12.13	13.36	13.77	14.02	14.88	16.73	43"	68"	54"		
	48"	76"	20.5	41.0	61.5	82.0	4'-8"	2'-1"	10'-8"	2'-9"	2'-0"	7'-2"	9'-9"	9'-9"	10'-1"	11'-3"	13'-9"	8.66	11.74	11.85	12.22	13.02	14.82	15.04	15.77	17.37	17.91	18.23	19.34	21.74	48"	76"	60"		
	53"	83"	24.8	49.6	74.4	99.2	5'-1"	2'-6"	11'-7"	3'-2"	2'-6"	8'-1"	10'-7"	10'-7"	10'-11"	12'-3"	15'-0"	12.50	16.98	16.98	17.67	18.83	21.47	21.78	22.86	25.18	25.97	26.44	28.06	31.55	53"	83"	66"		
58"	91"	29.5	59.0	88.5	118.0	5'-6"	2'-10"	12'-6½"	3'-6"	2'-10"	9'-0½"	11'-4"	11'-4"	11'-9"	13'-1"	16'-0"	16.46	22.26	22.46	23.16	24.66	28.05	28.46	29.85	32.85	33.85	34.46	36.55	41.05	58"	91"	72"			
Corrugated Metal	13"	17"	1.1	2.2	3.3	4.4	1'-9"	1'-2"	3'-10"	1'-10"	1'-2"	0'-4"	2'-6"	2'-6"	2'-7"	2'-11"	3'-6"	1.16	1.47	1.48	1.52	1.60	1.78	1.80	1.88	2.04	2.09	2.12	2.23	2.48	13"	17"	15"		
	15"	21"	1.6	3.2	4.8	6.4	1'-11"	1'-2"	4'-3"	1'-10"	1'-2"	0'-9"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.33	1.69	1.70	1.75	1.84	2.04	2.06	2.15	2.33	2.40	2.44	2.57	2.84	15"	21"	18"		
	20"	28"	2.8	5.6	8.4	11.2	2'-4"	1'-3"	5'-2"	1'-11"	1'-3"	1'-8"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	1.78	2.31	2.33	2.39	2.53	2.83	2.87	2.99	3.26	3.36	3.42	3.60	4.01	20"	28"	24"		
	24"	35"	4.3	8.6	12.9	17.2	2'-8"	1'-4"	5'-11½"	2'-0"	1'-4"	2'-5½"	4'-0"	4'-0"	4'-2"	4'-7"	5'-8"	2.34	3.03	3.05	3.14	3.32	3.72	3.77	3.93	4.29	4.40	4.47	4.72	5.25	24"	35"	30"		
	29"	42"	5.9	11.8	17.7	23.6	3'-1"	1'-5"	6'-10½"	2'-1"	1'-5"	3'-4½"	4'-9"	4'-9"	4'-11"	5'-6"	6'-9"	3.13	4.06	4.09	4.20	4.45	4.99	5.06	5.28	5.76	5.93	6.03	6.36	7.09	29"	42"	36"		
	33"	49"	8.4	16.8	25.2	33.6	3'-5"	1'-6"	7'-8"	2'-2"	1'-6"	4'-2"	5'-6"	5'-6"	5'-8"	6'-4"	7'-9"	3.83	5.00	5.04	5.18	5.48	6.16	6.24	6.52	7.12	7.32	7.44	7.86	8.76	33"	49"	42"		
38"	57"	10.6	21.2	31.8	42.4	3'-10"	1'-7"	8'-7½"	2'-3"	1'-7"	5'-1½"	6'-6"	6'-4"	6'-7"	7'-4"	8'-11"	4.87	6.31	6.36	6.53	6.91	7.74	7.84	8.18	9.12	9.38	9.85	10.96	38"	57"	48"				
43"	64"	13.2	26.4	39.6	52.8	4'-3"	1'-8"	9'-6½"	2'-4"	1'-8"	6'-0½"	7'-1"	7'-1"	7'-4"	8'-2"	10'-0"	5.88	7.64	7.70	7.91	8.37	9.40	9.52	9.94	10.86	11.15	11.33	11.97	13.33	43"	64"	54"			
47"	71"	16.9	33.8	50.7	67.6	4'-7"	1'-10"	10'-4"	2'-6"	2'-0"	6'-10"	7'-10"	7'-10"	8'-1"	9'-1"	11'-1"	7.80	10.15	10.23	10.51	11.12	12.49	12.65	13.22	14.43	14.85	15.10	15.94	17.77	47"	71"	60"			

9/10/2024 12:43:17 PM

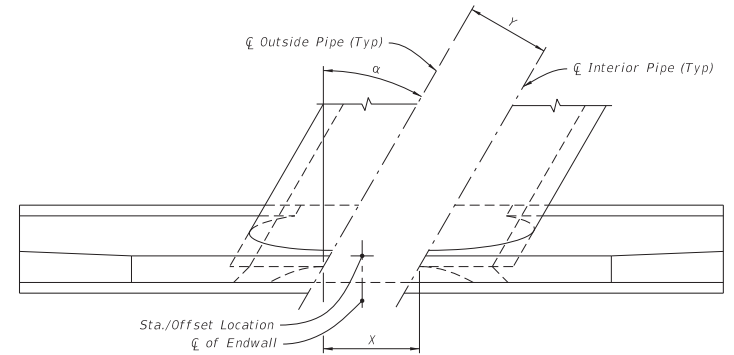


PLAN

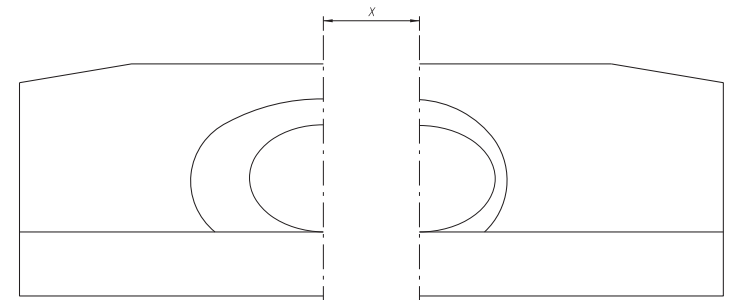


FRONT ELEVATION

NORMAL PIPE



PLAN



FRONT ELEVATION


SKEWED PIPE

(Multiple Pipe Shown, Single Pipe Similar)

LEGEND:

- α Pipe Skew Angle
- Y Center to Center between pipes
- X Center to Center along front of Headwall

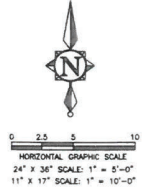
SPACING FOR MULTIPLE PIPES

LAST REVISION 11/01/19	DESCRIPTION:	 FY 2025-26 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX 430-030	SHEET 4 of 4
------------------------------	--------------	--	--	------------------	-----------------

AS LOCATED BY DENNIS A. LEAHY & ASSOCIATES, INC. ON 11/30/23
NOTE: THIS IS NOT A MEAN HIGH WATER SURVEY AND DOES NOT
COMPLY WITH CHAPTER 177, PART II, FLORIDA STATUTES. MEAN HIGH
WATER ELEVATION OF 6.20 FEET NAVD 88, NOTE 1983-2001, WAS
EXTENDED FROM MDE INTERPOLATION POINT 48 AS SHOWN IN THE
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF
SURVEY AND MAPPING, APPROXIMATE TIDAL DATUMS FOR THIS SITE.
DATED 10/10/2023

Mean High Water Line is to be staked out and located prior to installation of relocated headwall. The new relocated headwall is to be installed 1.0' minimum upstream of the mean high water line.

C.O.#2 PLAN REVISIONS



Proposed relocated FDOT Headwall per FDOT Index 430-030

Remove existing 45 LF +/- of existing elliptical RCP and existing headwall

NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD MEASURE ALL EXISTING STORM PIPE DIAMETERS AND VERIFY PIPE MATERIAL PRIOR TO ORDERING THE PROPOSED INLINE CHECK VALVES AND STRUCTURES. PIPE DIMENSIONS SHOWN HERE WERE OBTAINED FROM SURVEY INFORMATION AND/OR CITY UTILITY ATLASES.
- OUTFALL PIPES MUST BE JETTED FROM OUTFALL TO NEXT EXISTING UPSTREAM STORM STRUCTURE PRIOR TO PLACING NEW VALVES INTO OPERATION.
- CONTRACTOR TO REMOVE ANY BARNACLES/DEBRIS FROM OUTFALL PIPE.
- ALL RESTORATION IS TO BE CONSIDERED INCIDENTAL TO THE PROPOSED DRAINAGE IMPROVEMENTS AND COSTS INCLUDED IN THE DRAINAGE RELATED BID ITEMS.
- CONTRACTOR TO PROVIDE PROPER SEDIMENT CONTROL (INCLUDING INSTALLATION OF TURBIDITY CURTAINS AT THE 4 PROJECT OUTFALLS). SEE SHEET G-01, NOTE 9 FOR ADDITIONAL SWPPP/NPDES REQUIREMENTS.
- LIMITS OF WORK ARE TO BE MAINTAINED UPLAND OF THE MEAN HIGH WATER LINE LOCATION SHOWN.

C.O. #1 NOTES

- CONTRACTOR TO MODIFY PROPOSED MAINTENANCE STRUCTURE #6 (8' X 10') IN ORDER TO ACCOMMODATE THE EX. 48" X 76" ELLIPTICAL RCP CONNECTION TO ST#6.
- NEW ST#6B 5'X9' WILL BE REQUIRED. CURRENT USF 1120T SLAB TYPE RING AND COVER FROM M-6 ST#1 WILL BE RE-USED FOR NEW STRUCTURE.
- MOVE PROPOSED STRUCTURES #6 AND #6B WEST AS SHOWN TO AVOID GOLF CART PATH.
- CONTRACTOR TO CONFIRM EXISTING PIPE ELEVATIONS.
- MEASURED O.D. OF EXISTING ELLIPTICAL IS 61" X 89".
- ALL C.O.#1 REVISIONS TO BE REFLECTED IN FINAL ASBUILTS

4TH AVENUE NORTH

NO	DATE	REVISION	BY
3	01/11/24	REV'S PER USAGE	FV
2	12/12/23	MEAN HIGH WATER LINE ADDED	FV
1	08/29/23	REVISED PER CITY REVIEW COMMENTS	FV

Date: 03/13/23
Designed: FV
Drawn: CM
Checked: FV

FRANK VLAR, STATE OF FLORIDA
PROFESSIONAL ENGINEER, LICENSE NO. 55456
THIS PLAN HAS BEEN DIGITALLY SIGNED AND SEALED BY FRANK VLAR, P.E. ON THE DATE INDICATED HERE.
PHOTOCOPIES MUST BE SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
1425 E NEWPORT CENTER DRIVE
DEERFIELD BEACH, FLORIDA 33442
(888) 762-3222
CERTIFICATE NO. LB0003110

PREPARED FOR
CITY OF LAKE WORTH BEACH

PARROT COVE
STORM WATER IMPROVEMENTS
DRAINAGE PLANS

FILE NAME: 20-23-005-C-06-PLAN.dwg
LAST SAVED: 01/12/24 - 3:09pm
CAS PROJECT NUMBER
08-23-005

SHEET
C-06