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City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

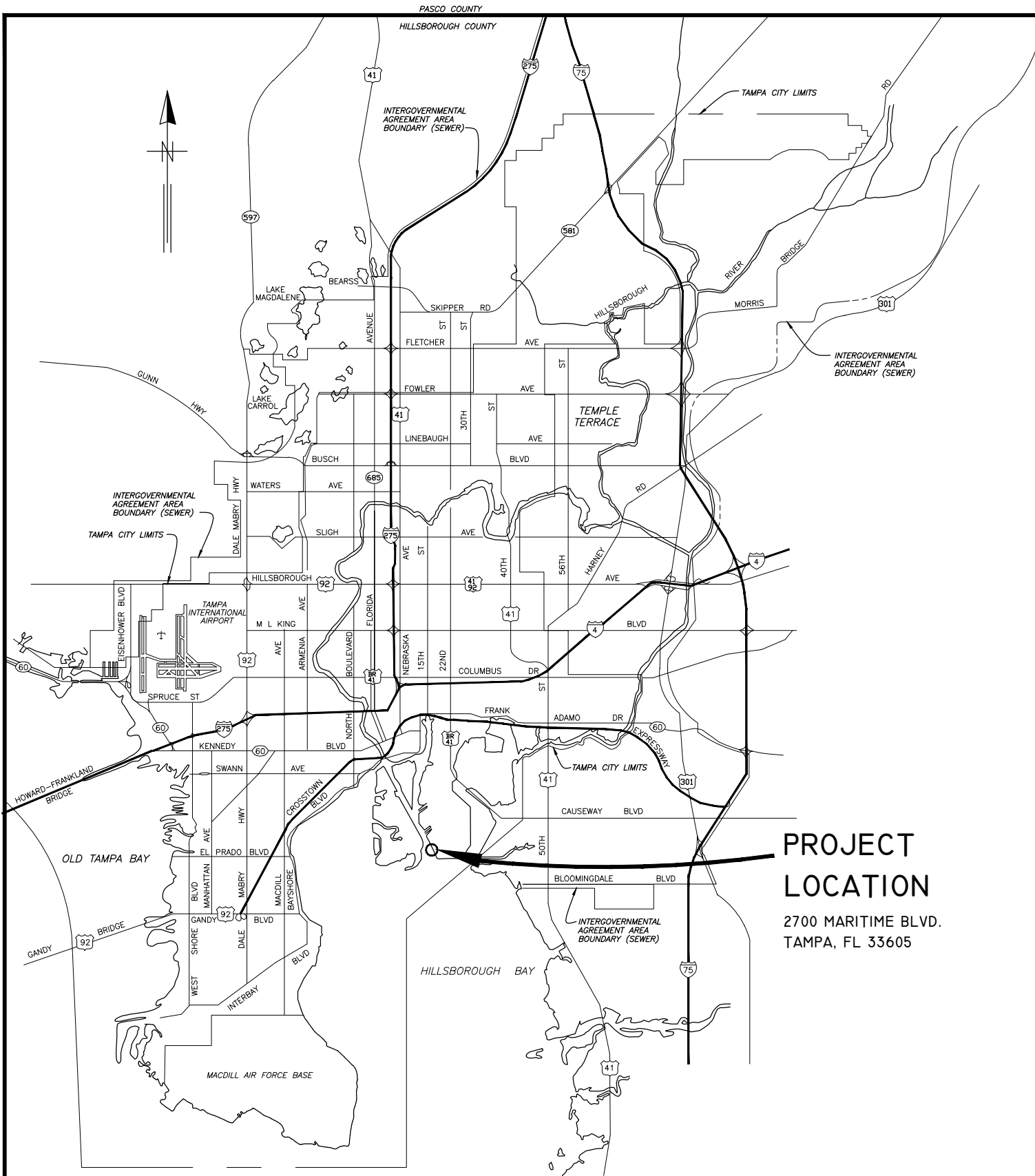
CITY of TAMPA



WASTEWATER DEPARTMENT

PLANS FOR

HFC AWTP MAIN EFFLUENT OUTFALL MARKER REPLACEMENT CONTRACT NO. 16-C-00013



PROJECT LOCATION
2700 MARITIME BLVD.
TAMPA, FL 33605

LOCATION MAP

Catalano Engineering, Inc.
CIVIL - STRUCTURAL - MARINE
120 SOUTH EDISON AVE. TAMPA, FL 33606
(813) 254-1265 CERTIFICATE NO. 6828

PLOTTED BY jccatalano DRAWING FILE P:\Projects\2002\02-009.00 COT\07.Pilings\Plans\REVISION 3\1-CoverSheet.dwg PLOT DATE: Friday, March 18, 2016 3:34:59 PM LAST SAVED BY jccatalano CTB - COTAMPA 11X17.CTB

No.	DATE	REVISIONS	DES: -	CITY of TAMPA WASTEWATER DEPARTMENT	HFC AWTP MAIN EFFLUENT OUTFALL MARKER REPLACEMENT COVER	W.O. -
			DRN: - CKD: DATE:			SHEET 1.0 OF
JAMES CATALANO, P.E. #42507 CATALANO ENGINEERING, INC.						

PILE NOTES:

ALL PILES SHALL BE 12" DIAMETER TIP, TIMBER PILES.

REQUIRED BEARING CAPACITY = APPROXIMATELY 12 TONS

MINIMUM EMBEDMENT = 12 FT BELOW CHANNEL BOTTOM

ESTIMATED TIP ELEVATION = -48 NAVD (13 FT +/- BELOW CHANNEL BOTTOM)

REFERENCE STANDARDS:

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) D25 - SPECIFICATIONS FOR ROUND TIMBER PILES.

AMERICAN WOOD PRESERVERS' ASSOCIATION (AWPA) C3 - PILES/PRESERVATIVE TREATMENT BY PRESSURE PROCESSES.

MATERIALS - TIMBER PILES:

PILES SHALL BE ROUND PILES OF SOUTHERN PINE OR DOUGLASS FIR AND SHALL CONFORM TO ASTM D25, UNUSED, CLEAN PEELED, UNIFORMLY TAPERED AND ONE PIECE FROM TIP TO BUTT.

PRESSURE TREATMENT SHALL BE IN ACCORDANCE WITH AWPA C3 - FOUNDATION/MARINE PILES.

PRESERVATIVES AND RETENTION:

USE CATEGORY = FOUNDATION PILES

SOUTHERN PINE = 2.5 (MIN) CCA

DOUGLAS FIR = 2.5 (MIN) ACZA

PILES SHALL BE EQUIPPED WITH STEEL "DRIVING SHOES" TO PROTECT THE TIP.

EXECUTION:

PILES SHALL BE END-BEARING TYPE, DRIVEN TO THE REQUIRED BEARING VALUE OF TONS.

PROVIDE PILES OF SUCH LENGTH AS REQUIRED TO DEVELOP THE SPECIFIED BEARING VALUE, TO OBTAIN THE SPECIFIED PENETRATION AND TO EXTEND ABOVE MEAN SEA LEVEL AS SHOWN IN THE CONSTRUCTION DRAWINGS.

DRIVEN PILE CAPACITY:

THE ENGINEER OF RECORD OF DESIGNEE SHALL MONITOR PILE DRIVING ACTIVITIES.

ALL PILES SHALL BE MARKED AT 2 FT INCREMENTS FROM 0' AT THE TIP TO THE BUTT AND DRIVEN SUCH THAT THE MARKS CAN BE READ FROM SHORE SO THAT THE DRIVING MAY BE TERMINATED AT 12 FT MIN EMBEDMENT.

DAYMARK NOTES:

1. WARNING SIGN AND ONE DAYMARK ON NORTH DOLPHIN AND ONE DAYMARK IN SOUTH DOLPHIN TO FACE CHANNEL AND BE PARALLEL TO CHANNEL CUT CENTER LINE. TWO ADDITIONAL DAYMARKS TO BE POSITIONED ON EACH DOLPHIN, NORTH AND SOUTH FACE.

2. WARNING DAYMARK SIGNS ARE TO BE PLUMB. SHIM AS REQUIRED.

3. DAYMARKS WORDED "DANGER SUBMERGED PIPE" ARE TO BE ATTACHED TO EACH DOLPHIN NORTH, WEST AND SOUTH FACE.

4. DAYMARKS MUST MEET U.S. COAST GUARD APPEARANCE STANDARDS.

5. DANGER SIGN ON NORTH DOLPHIN TO BE INSTALLED 6" BELOW DAYMARK WORDED "DANGER SUBMERGED PIPE".

6. STANDARD MATERIAL FOR EACH SIGN SHALL BE 1/8" THICK ALUMINUM. ALL LETTERING SHALL BE NON-REFLECTIVE BLACK FONT.

UNLIGHTED BUOY:

A SINGLE PDM SERIES GENERAL PURPOSE UNLIGHTED MARKER BUOY (YELLOW/UNLIGHTED) SHALL BE INSTALLED AT THE HEADWALL OF THE OUTFALL PIPES.

BUOY SHALL BE MADE OF CROSS LINKED POLYETHYLENE FOAM COATED IN A POLYURETHANE SKIN (500% ELONGATION / 4,500PSI TENSILE STRENGTH (MIN))

DEMOLITION:

ALL PILES AT OR ABOVE THE LOW WATER LINE SHALL BE REMOVED. PILES BROKEN OFF SUCH THAT THEY CANNOT BE SLUNG FROM A STANDARD WORK PLATFORM SHALL REMAIN IN PLACE AND BE INCORPORATED INTO THE PROPOSED PILE ARRAY.

GENERAL CONSTRUCTION:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 5TH EDITION (2014), AND CHAPTER 5 OF THE CITY OF TAMPA CODE.

SHEET INDEX

SHEET 1.0 - COVER SHEET

SHEET 2.0 - NOTES & SPECIFICATIONS

SHEET 3.0 - PROTECTIVE DOLPHIN DETAILS

SHEET 4.0 - WARNING DAYMARK DETAILS



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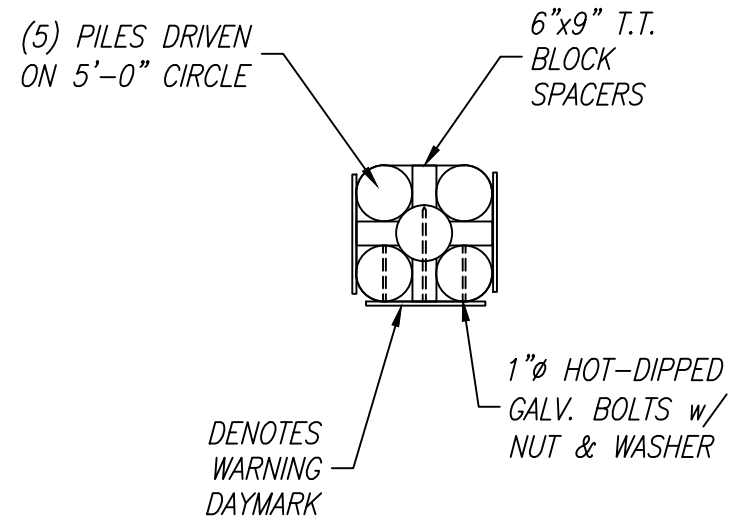
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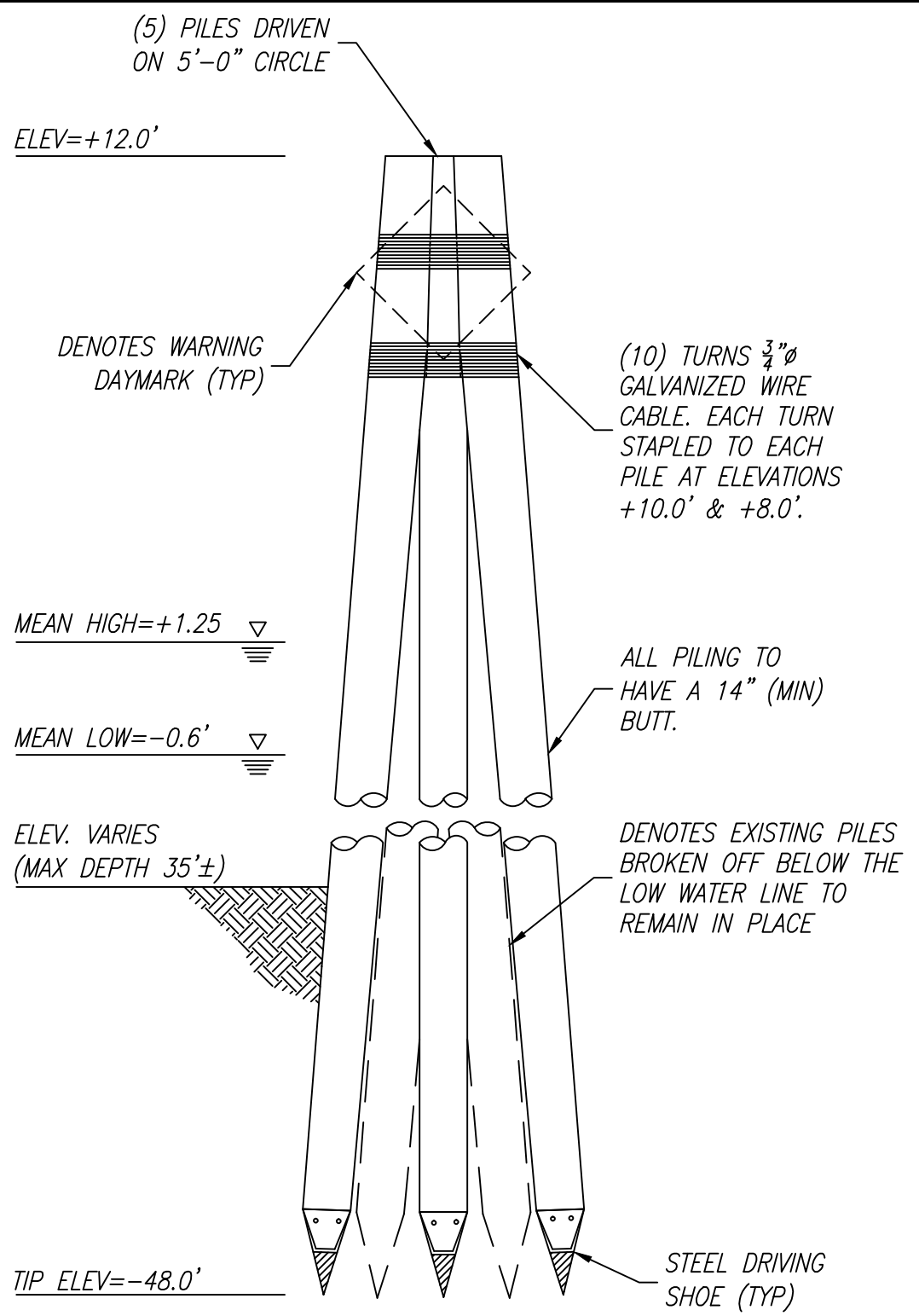
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NOTES & SPECIFICATIONS

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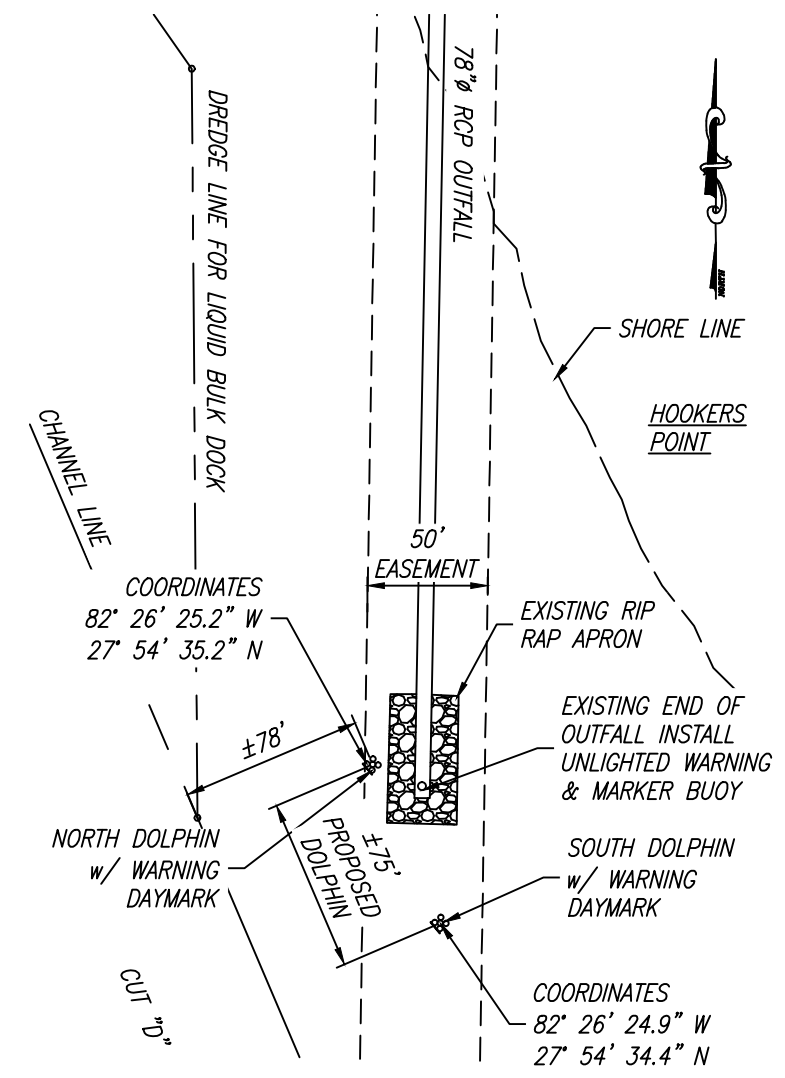
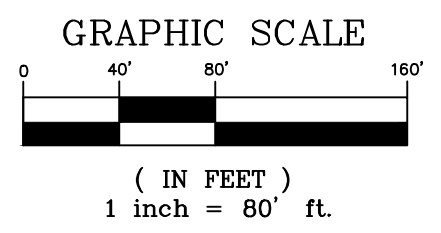
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TOP VIEW - FIVE (5) PILE DOLPHIN



TYPICAL FIVE (5) PILE DOLPHIN DETAIL



PROPOSED DOLPHIN LOCATION

NOTES:
 1. ALL ELEVATIONS RELATE TO ELEV. 0.0 MEAN SEA LEVEL.

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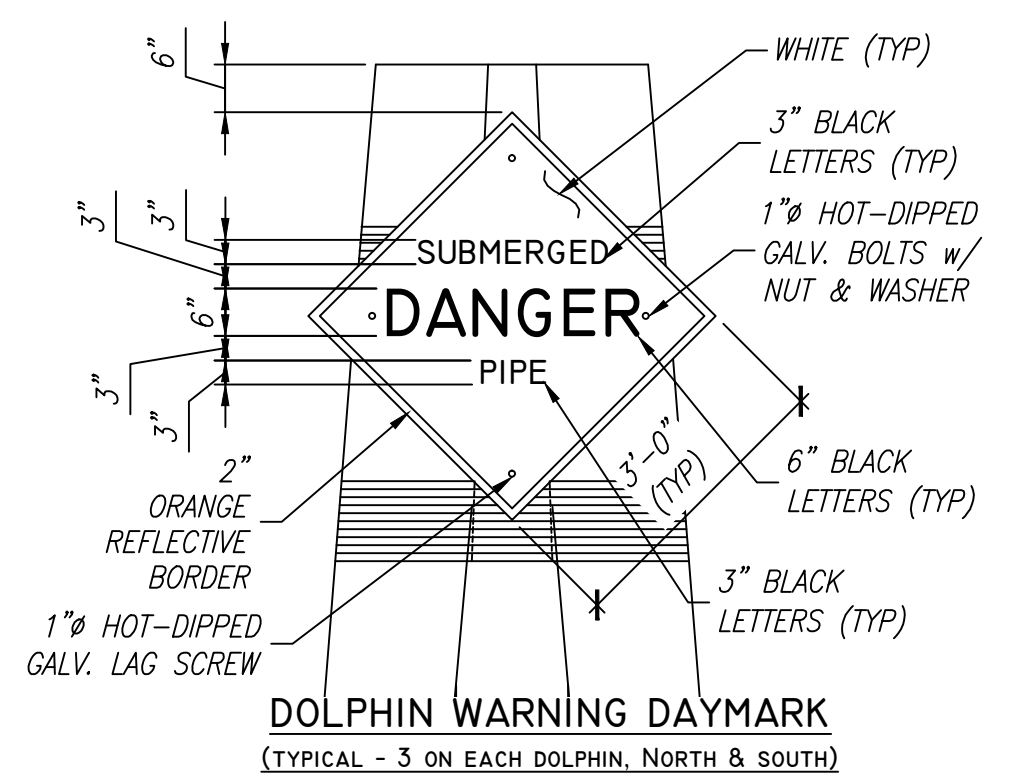
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PROTECTIVE DOLPHIN DETAILS

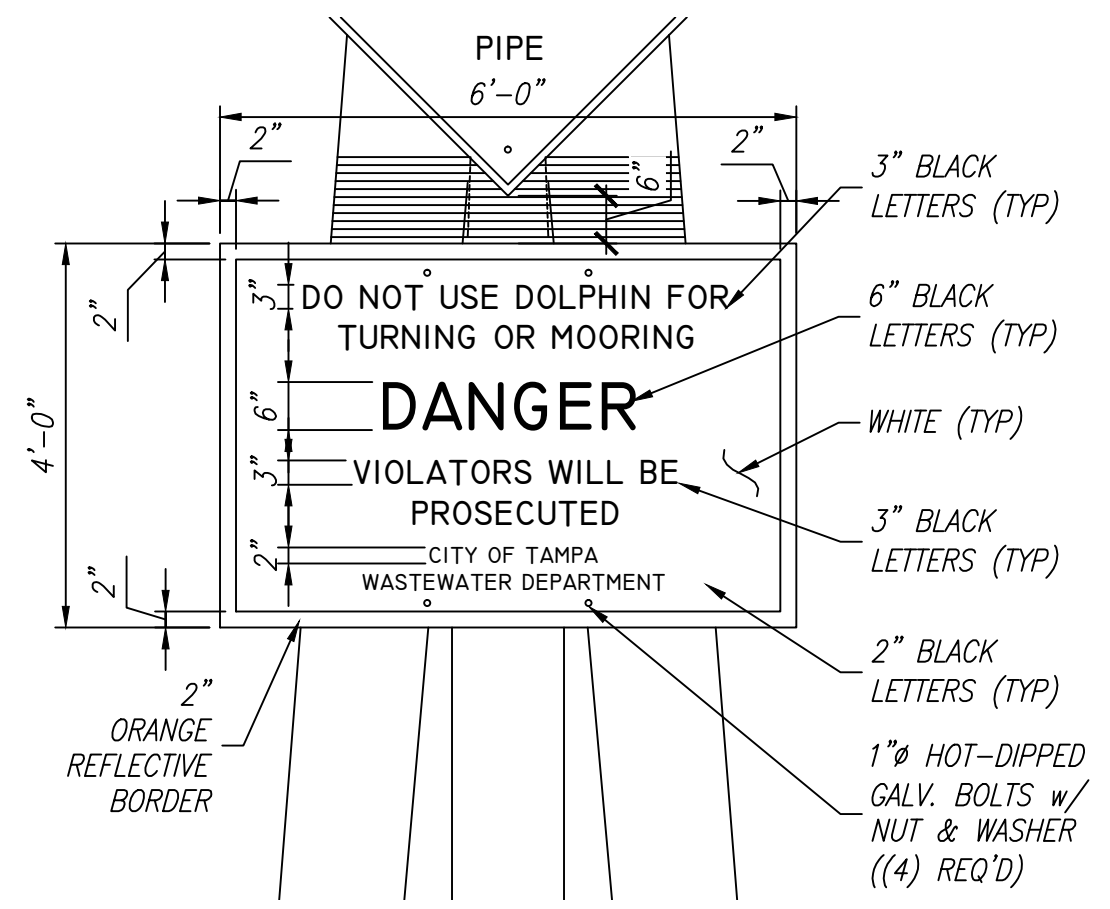
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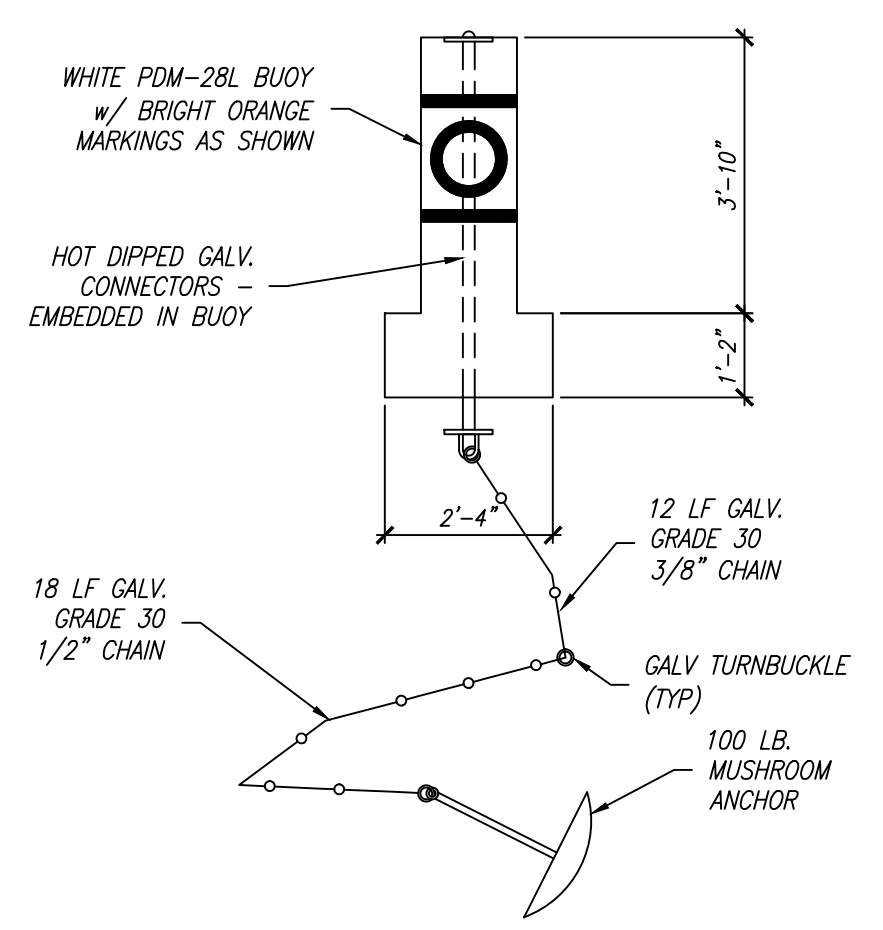
JAMES CATALANO, P.E. #42507
 CATALANO ENGINEERING, INC.



DOLPHIN WARNING DAYMARK
(TYPICAL - 3 ON EACH DOLPHIN, NORTH & SOUTH)



NORTH DOLPHIN WARNING SIGN



UNLIGHTED MARKER BUOY

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REPLACEMENT
WARNING DAYMARK DETAILS

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