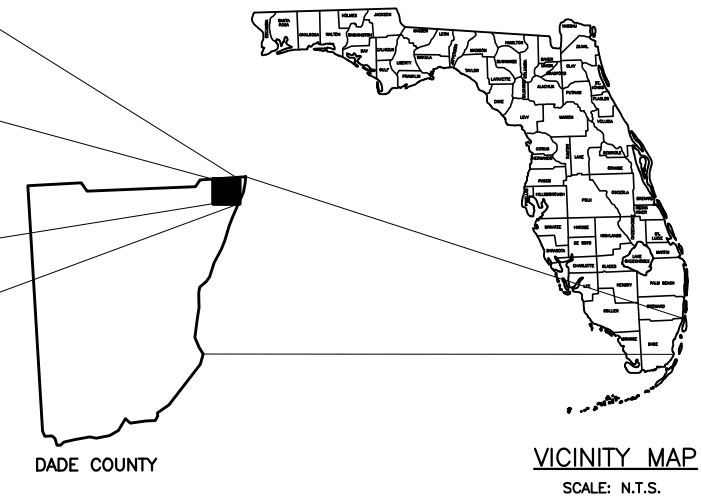
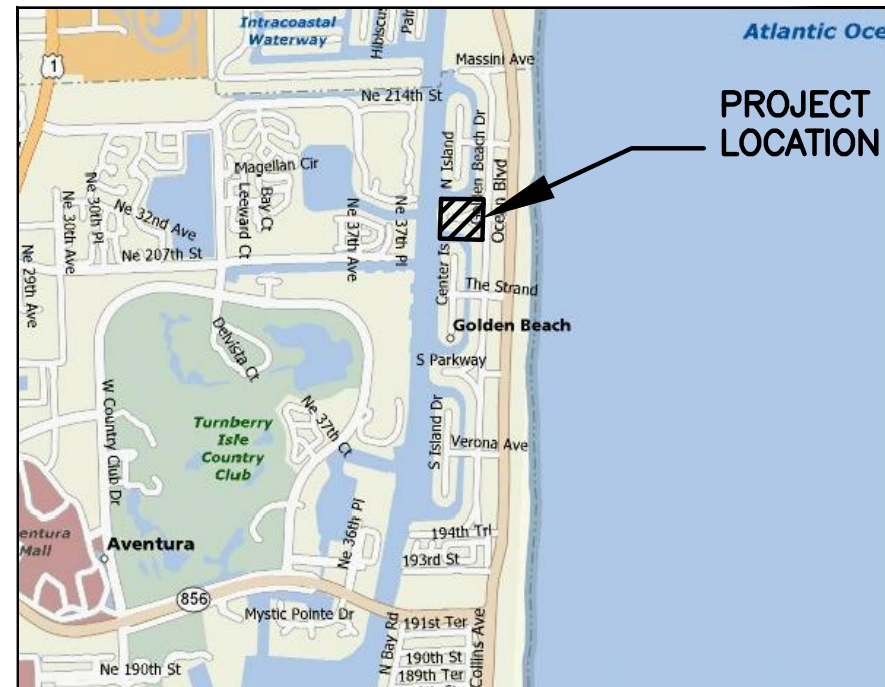


TOWN OF GOLDEN BEACH

CENTER ISLAND PUMP STATION

LOCATION MAP

Golden
BEACH



SECTION 22 & 23, TOWNSHIP 49, RANGE 42

PREPARED FOR:

TOWN OF GOLDEN BEACH

PROJECT No. 18-2025



TOWN COUNCIL	
MAYOR	GLENN SINGER
VICE MAYOR	BERNARD EINSTEIN
COUNCIL PERSON	KENNETH BERNSTEIN
COUNCIL PERSON	JAMIE MENDAL
COUNCIL PERSON	JUDY LUSSKIN
TOWN MANAGER	ALEXANDER DIAZ
TOWN CLERK	LISSETTE PEREZ



CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS—PLANNERS—SURVEYORS
21045 COMMERCIAL TRAIL — BOCA RATON, FLORIDA 33486
(561) 314-4445 WWW.CRAIGASMITH.COM
CERTIFICATE OF AUTHORIZATION NUMBER: LB0003110



P:\Cities_Villages_Towns\Golden_Beach\18-2025-Center_Island_Pump_Station\09-Plans\00-2025-G-01-LGND.dwg, 7/9/2020 8:19:58 AM, mmarenco, 1:2

GENERAL ABBREVIATIONS

ABRV	DESCRIPTION	ABRV	DESCRIPTION
A/C	AIR CONDITION PAD	NTS	NOT TO SCALE
ACP	ASBESTOS CEMENT PIPE	ORB	OFFICIAL RECORDS BOOK
ALUM	ALUMINUM	O / S	OFF SET
APPROX	APPROXIMATELY	(P)	PLAT
B.C.R.	BROWARD COUNTY RECORDS	P.B.	PLAT BOOK
B/L	BASELINE	P.B.C.R.	PALM BEACH COUNTY RECORDS
BOTT	BOTTOM	PC	POINT OF CURVE
(C)	CALCULATED	PCP	PERMANENT CONTROL POINT
CIP	CAST IRON PIPE	PGS	PAGES
CL	CENTER LINE	PHDPE	PERFORATED HIGH DENSITY POLYETHYLENE
CONC	CONCRETE	PI	POINT OF INTERSECTION
D	DEED/DESCRIPTION	PK&D	PK NAIL AND DISK
D.E.	DRAINAGE EASEMENT	PRC	POINT OF REVERSE CURVE
DIA	DIAMETER	PROP	PROPOSED
DIP	DUCTILE IRON PIPE	PRM	PERMANENT REFERENCE MARKER
ELEV	ELEVATION	PSM	PROFESSIONAL SURVEYOR AND MAPPER
EOW	EDGE OF WATER	PT	POINT OF TANGENCY
EP	EDGE OF PAVEMENT	PVC	POLY VINYL CHLORIDE
EXIST	EXISTING	R	RADIUS
FF	FINISHED FLOOR	RCP	REINFORCED CONCRETE PIPE
FND	FOUND	R.E.	RIM ELEVATION
FPL	FLORIDA POWER & LIGHT	RGE	RANGE
GFF	GARAGE FINISHED FLOOR	R/W	RIGHT-OF-WAY LINE
HDPE	HIGH DENSITY POLYETHYLENE	SEC	SECTION
I.E.	INVERT ELEVATION	TOB	TOP OF BANK
IR	IRON ROD	TOE	TOE OF SLOPE
IR&C	IRON ROD AND CAP	TOP	TOP OF PIPE
IP	IRON PIPE	TWP	TOWNSHIP
L	ARC LENGTH	TYP	TYPICAL
LB	LICENSED BUSINESS	U.E.	UTILITY EASEMENT
LF	LINEAR FEET	VCP	VITRIFIED CLAY PIPE
(M)	MEASURED	Δ	DELTA

STANDARD LINETYPES

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BASELINE		BURIED TRAFFIC CONTROL
	PARCEL LINE		COMMUNICATIONS DUCTBANK CL
	BOUNDARY LINE		FIBER OPTIC DUCTBANK CL
	EASEMENT LINE		OVERHEAD WIRE
	LOT LINE		BURIED ELECTRIC
	RIGHT OF WAY LINE		BURIED STREET LIGHTING
	CENTER LINE		ELECTRICAL DUCTBANK CENTER LINE
	SECTION LINE		FORCE MAIN
	LANDSCAPE LINE		SANITARY SEWER
	EDGE OF WATER		SANITARY SERVICE
	RR TRACKS		VACUUM SEWER
	PLAT LINE		STORM DRAIN
	CURB & GUTTER		FIRE LINE
	FENCE LINE		RAW WATER LINE
	GUARD RAIL		WATER LINE MAIN
	UNKNOWN UTILITY		WATER LINE CHILLED
	ABANDONED UTILITY		WATER SERVICE
	NON FIELD VERIFIED UTILITY		IRRIGATION LINE
	BURIED CABLE TV		GAS LINE ABOVE GROUND
	BURIED COMMUNICATIONS LINE		BURIED GAS LINE
	FIBER OPTIC CABLE		BURIED GAS SERVICE LINE
	BURIED TELEPHONE		FUEL LINE

GENERAL SYMBOL LEGEND

SYM.	DESCRIPTION	SYM.	DESCRIPTION
	AERIAL TARGET		GAS METER
	BENCH MARK		GAS MANHOLE
	CONCRETE MONUMENT		GAS VALVE
	IRON PIPE		MONITORING WELL
	IRON ROD		VAPOR EXTRACTION POINT
	NAIL & DISC		FUEL PUMP DISPENSER
	TRAVERSE POINT		GAS MARKER
	IRON ROD AND CAP		VENT PIPE
	X CUT		GAS VALVE BOX
	DRILL HOLE		FUEL FILL CAP
	11.25° PIPE BEND		TELEPHONE JUNCTION BOX
	22.5° PIPE BEND		TELEPHONE RISER
	45° PIPE BEND		TELEPHONE MANHOLE
	90° PIPE BEND		FIBER OPTIC CABLE MARKER
	CROSS PIPE FITTING		CATV RISER
	TEE PIPE FITTING		BACKFLOW PREVENTOR
	WYE PIPE FITTING		BLOW OFF
	REDUCER PIPE FITTING		AIR RELEASE VALVE
	ELECTRIC MANHOLE		SAMPLE POINT
	ELECTRIC MOTOR		FIRE HYDRANT
	ELECTRICAL OUTLET		SIAMESE CONNECTION
	GROUND LIGHT		WATER METER
	ELECTRIC JUNCTION BOX		WATER VALVE
	ELECTRIC METER		WATER SPIGOT
	LIGHT POLE BOX		IRRIGATION CONTROL VALVE
	TRAFFIC CONTROL BOX		IRRIGATION METER
	ELECTRICAL RISER		SPRINKLER
	TRANSFORMER		CITRUS TREE
	GUY WIRE		CYPRESS TREE
	GUY POLE		GENERIC TREE
	LIGHT POLE		OAK TREE
	CONCRETE UTILITY POLE		PINE TREE
	METAL UTILITY POLE		PALM TREE
	WOOD UTILITY POLE		MANGROVE
	MAST ARM POLE		GROUND PENETRATING RADAR
	CLEAN OUT		BORING HOLE
	SANITARY MANHOLE		METER (UNKNOWN)
	STUB OUT		BOLLARD
	STAND PIPE		COLUMN
	SEWER VALVE		MAIL BOX
	CATCH BASIN		FLAG POLE
	STORM DRAIN MANHOLE		HANDICAP MARKER
	YARD DRAIN		MANHOLE (UNKNOWN)
	CURB INLET		SATELLITE DISH
	CURB INLET W/ MANHOLE		SIGN
	CURB INLET W/ GRATE		PARKING METER
	CI W/ MANHOLE & GRATE		POST
			UTILITY BOX
			UTILITY RISER
			CEMETERY HEAD STONE

STANDARD HATCH PATTERNS

SYM	DESCRIPTION	SYM	DESCRIPTION
	CONCRETE		STONE
	BRICK		ASPHALT

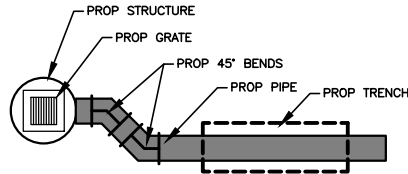
LINE WEIGHTS

EXISTING	SHADED SOLID LINES & TEXT DENOTE EXISTING EQUIPMENT, STRUCTURES AND WORK.
FUTURE	NON-SHADED DASHED LINES & TEXT DENOTE FUTURE EQUIPMENT, STRUCTURES AND WORK.
PROPOSED	NON-SHADED, BOLD, SOLID LINES & TEXT DENOTE PROPOSED EQUIPMENT, STRUCTURES AND WORK.

NOTE:
FOR GRAPHICAL CLARIFICATION ON PLANS
CONTAINING BACKGROUND AERIAL PHOTOS
EXISTING ITEMS ARE SHOWN HOLLOW WHERE
AS PROPOSED ARE SHOWN SOLID.



PIPE LEGEND

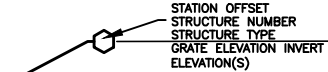


PIPE FITTINGS

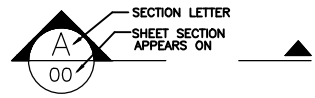
SYM	DESC	SYM	DESC
	11.25° BEND		45° BEND
	22.5° BEND		90° BEND
	TEE		WYE
	REDUCER		PLUG
	CAP		

NOTE: THE LEGEND SHOWN HEREON IS
REPRESENTATIVE OF ALL GAS DRAFTING
STANDARDS AND IS NOT PROJECT SPECIFIC.

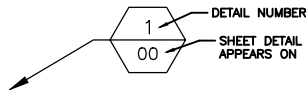
TAGS



STRUCTURE CALLOUT



SECTION SYMBOL



DETAIL SYMBOL

FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date: 01/02/19
Designed: OAR
Drawn: KJL
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

PREPARED FOR:

TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION

CIVIL ABBREVIATIONS
& LEGEND SHEET

FILE NAME: 00-2025-G-01-LGND.dwg
LAST SAVED: 07/06/20 - 7:18am

CAS PROJECT NUMBER
18-2025

SHEET

G-01

SHEET INDEX

SHEET	DESCRIPTION
G-00	COVER SHEET
G-01	CIVIL ABBREVIATION & LEGEND SHEET
G-02	KEY SHEET & SHEET INDEX
V-01	MAP OF TOPOGRAPHIC SURVEY
C-01	PLAN VIEW
C-02	GRADING PLAN
C-03	MILLING, RESURFACING, PAVEMENT MARKING & STRIPING PLAN
C-04	PUMP STATION PLAN VIEW
C-05	PUMP STATION SECTION VIEW
C-06	PUMP STATION DETAILS
C-07 - C-08	STANDARD DETAILS
C-09 - C-11	GUIDE FOR SEDIMENT & EROSION CONTROL BMP'S
E-01 - E-07	ELECTRICAL PLANS
L-1.01 - L-1.02	LANDSCAPING PLANS



0 0 0
HORIZONTAL GRAPHIC SCALE
24" X 36" SCALE: 1" = 0'-0"
11" X 17" SCALE: 1" = 0'-0"

BID SET

FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date: 01/02/19
Designed: OAR
Drawn: KJL
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: _____
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

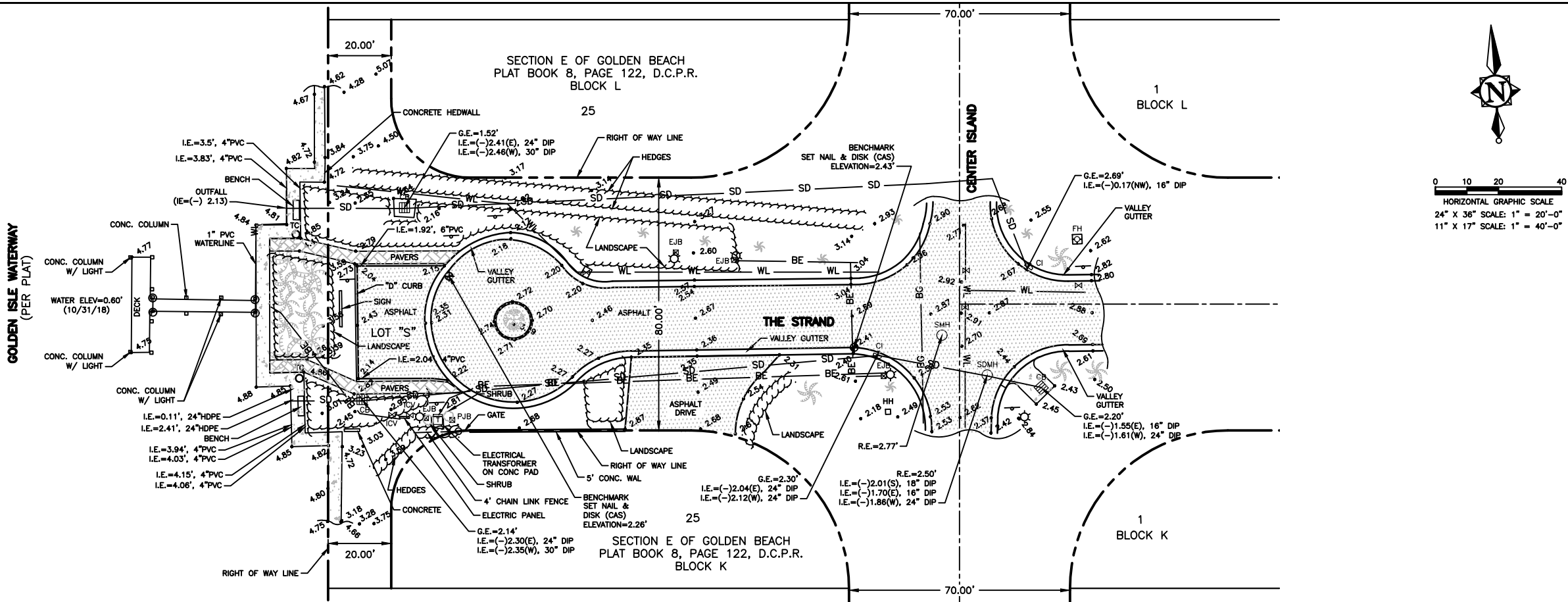
PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION

KEY SHEET
& SHEET INDEX

FILE NAME: 00-2025-G-02-KEY.dwg
LAST SAVED: 07/09/20 - 8:16am
CAS PROJECT NUMBER
18-2025

SHEET
G-02

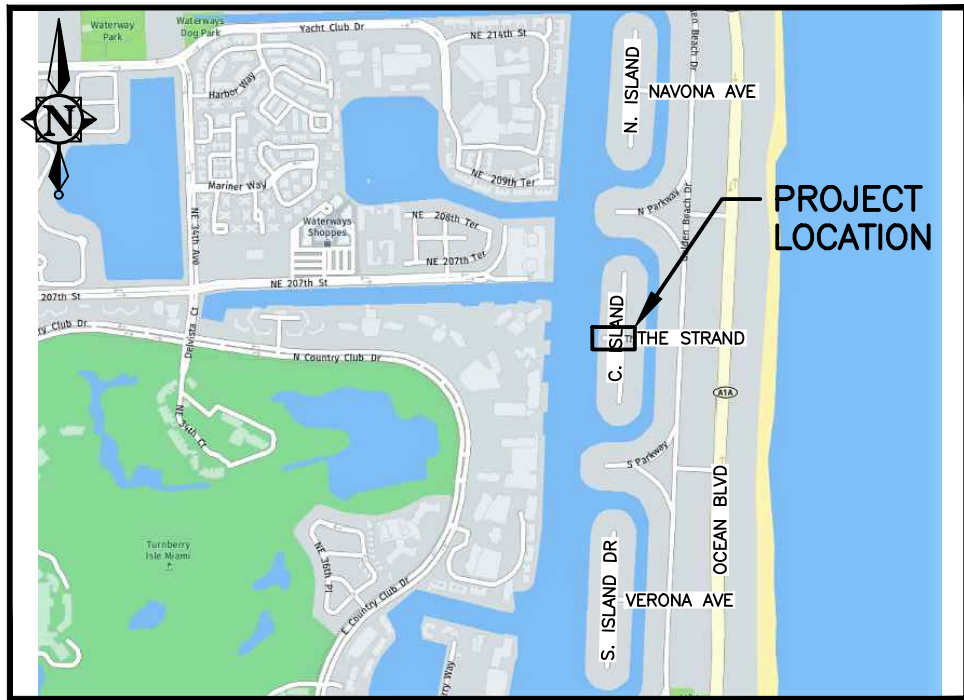


SURVEYOR NOTES:

1. REPRODUCTIONS OF THIS SURVEY ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
2. NO SEARCH OF THE PUBLIC RECORDS WAS UNDERTAKEN FOR EASEMENTS, RIGHTS OF WAYS, RESTRICTIONS OR OTHER RECORDED OR EVIDENCE OF UNRECORDED DOCUMENTS BY THIS FIRM, NOR WERE ANY SUCH RECORDS SUPPLIED.
3. ELEVATIONS SHOWN HEREON ARE RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NAVD '29) AND BASED ON MIAMI-DADE COUNTY PUBLISHED BENCHMARK E-202 HAVING AN ELEVATION OF 9.34'.
4. THERE MAY BE UNDERGROUND "FOOTINGS", DRAINAGE, UTILITIES, ETC. NOT SHOWN OR INDICATED HEREON. UTILITY SURFACE MARKINGS SHOWN HEREON WERE LOCATED AS PROVIDED BY THE CRAIG A. SMITH & ASSOCIATES UTILITY LOCATES DEPARTMENT AND/OR OTHERS.
5. THE ACCURACY OF THIS SURVEY IS PREMISED ON THE EXPECTED USE OF THE SURVEY. THE EXPECTED USE/PREMISE OF THIS SURVEY IS TO DETERMINE WHAT PORTIONS OF THE SITE MAY BE UTILIZED FOR FUTURE IMPROVEMENTS BASED ON EXISTING IMPROVEMENTS. TRIMBLE R2 AND R6 GNSS INSTRUMENTS WITH TRIMBLE TSC-3 DATA COLLECTION WERE UTILIZED TO ESTABLISH HORIZONTAL SURVEY CONTROL AND LOCATE MISC. FEATURES IN AREAS REQUESTED. A TOPCON ES-102 INSTRUMENT WITH RANGER (TDS) DATA COLLECTION WAS UTILIZED TO COLLECT DATA IN THE HORIZONTAL PLANE.
6. THE DIGITAL DATA PROVIDED IS INTENDED TO BE VIEWED AT A SCALE OF 1" = 20' OR SMALLER.
7. ALL DISTANCES SHOWN HEREON ARE IN ACCORD WITH THE UNITED STATES STANDARD USING FEET AND DECIMALS THEREOF.
8. RIGHT OF WAY, LOT LINES, ETC ARE PER THE PLAT OF GOLDEN BEACH SECTION E, PLAT BOOK 8, PAGE 122, MIAMI-DADE COUNTY PUBLIC RECORDS.

LOCATION MAP

SCALE: N.T.S.



SYMBOL LEGEND

SYM. DESCRIPTION

CONC	CONCRETE
DIP	DUCTILE IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE
I.E.	INVERT ELEVATION
G.E.	GRATE ELEVATION
PVC	POLY VINYL CHLORIDE
PCP	PERMANENT CONTROL POINT
R.E.	RIM ELEVATION
EJB	ELECTRIC JUNCTION BOX
FPL	TRANSFORMER
LP	LIGHT POLE
CO	CLEAN OUT
CB	CATCH BASIN
SDMH	STORM DRAIN MANHOLE

SYMBOL LEGEND

SYM. DESCRIPTION

CI	CURB INLET
FH	FIRE HYDRANT
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
TRG	GENERIC TREE (TRG)
TRPL	PALM TREE (TRPL)
SG	SIGN
POST	POST
HH	HAND HOLE
TC	TRASH CAN
SMH	SANITARY MANHOLE
PJB	TELEPHONE JUNCTION BOX

SURVEYORS CERTIFICATE:

I HEREBY CERTIFY THAT THIS SURVEY IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND MEETS APPLICABLE SECTIONS OF THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, SUBJECT TO QUALIFICATIONS NOTED HEREON.

FOR THE FIRM BY: ROBERT D. KEENER
PROFESSIONAL SURVEYOR & MAPPER
FLORIDA REGISTRATION NO. 4846

FIELD DATE: 01/18/19

SIGNATURE DATE: _____

BID SET

NO.	DATE	FB / PG	DWN	REVISION	CKD
2	01/18/19	1910/70	SEE	ADDITIONAL ELEVATIONS	RDK
1	01/03/19	1862/15	SEE	MAP OF TOPOGRAPHIC SURVEY	RDK

TOWN OF GOLDEN BEACH

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

MAP OF
TOPOGRAPHIC
SURVEY

SURVEY FOR THE PROPOSED
CENTER ISLAND PUMP STATION
TOWN OF GOLDEN BEACH, FL

FILE NAME: 45-2025-V-01-SRVY.dwg
LAST SAVED: 07/06/20 - 7:41am

CAS PROJECT NUMBER
18-2025

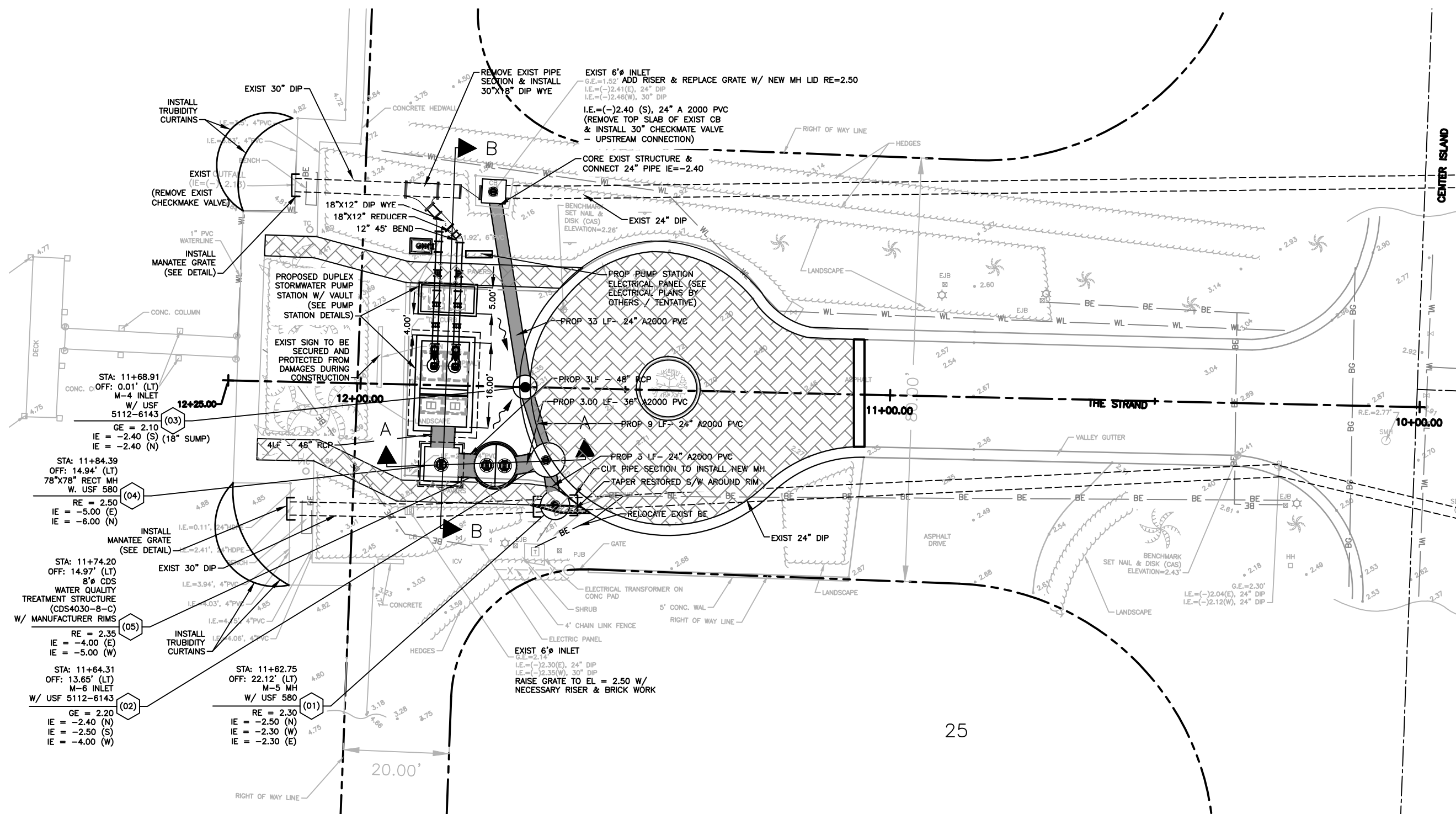
SHEET
V-01
OF
1



0 5 10 20
HORIZONTAL GRAPHIC SCALE
24" X 36" SCALE: 1" = 10'-0"
11" X 17" SCALE: 1" = 20'-0"

NOTES:

1. THE EXISTENCE AND LOCATION OF ANY OF THE WATER AND/OR WASTEWATER LINES, VALVES, HYDRANTS, LIFT STATIONS, ETC., SHOWN ON THESE PLANS ARE NOT GUARANTEED BY THE MD-WASA OR CAS AND MUST BE VERIFIED IN THE FIELD.
2. CONTRACTOR WILL OBTAIN A WATER USE PERMIT FOR ANY CONSTRUCTION DEWATERING AS NECESSARY FROM ANY WATER MANAGEMENT DISTRICT AND MDC-DERM.
3. CONTRACTOR WILL OBTAIN A N.P.D.E.S. N.O.I. PERMIT FROM F.D.E.P. PRIOR TO COMMENCEMENT OF CONSTRUCTION AND COMPLY WITH THE MDC-DERM PERMIT.
4. CONTRACTOR TO ADJUST WATER SERVICES IN DIRECT CONFLICT WITH PROPOSED DRAINAGE, TO BE COORDINATED WITH MDC-WASD.
5. ALL STRUCTURES TO HAVE MIN. 18" SUMP FROM LOWEST PIPE INVERT; 24" WHERE BAFFLE IS CALLED OUT.



BID SET

FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date:	01/02/19
Designed:	OAR
Drawn:	KJL
Checked:	OAR

APPROVED BY:	ORLANDO A. RUBIO, P.E.
DATE	
FLORIDA PROFESSIONAL ENGINEER NO.	48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

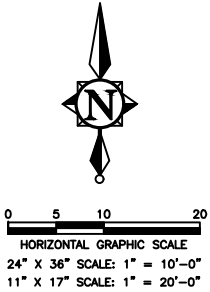
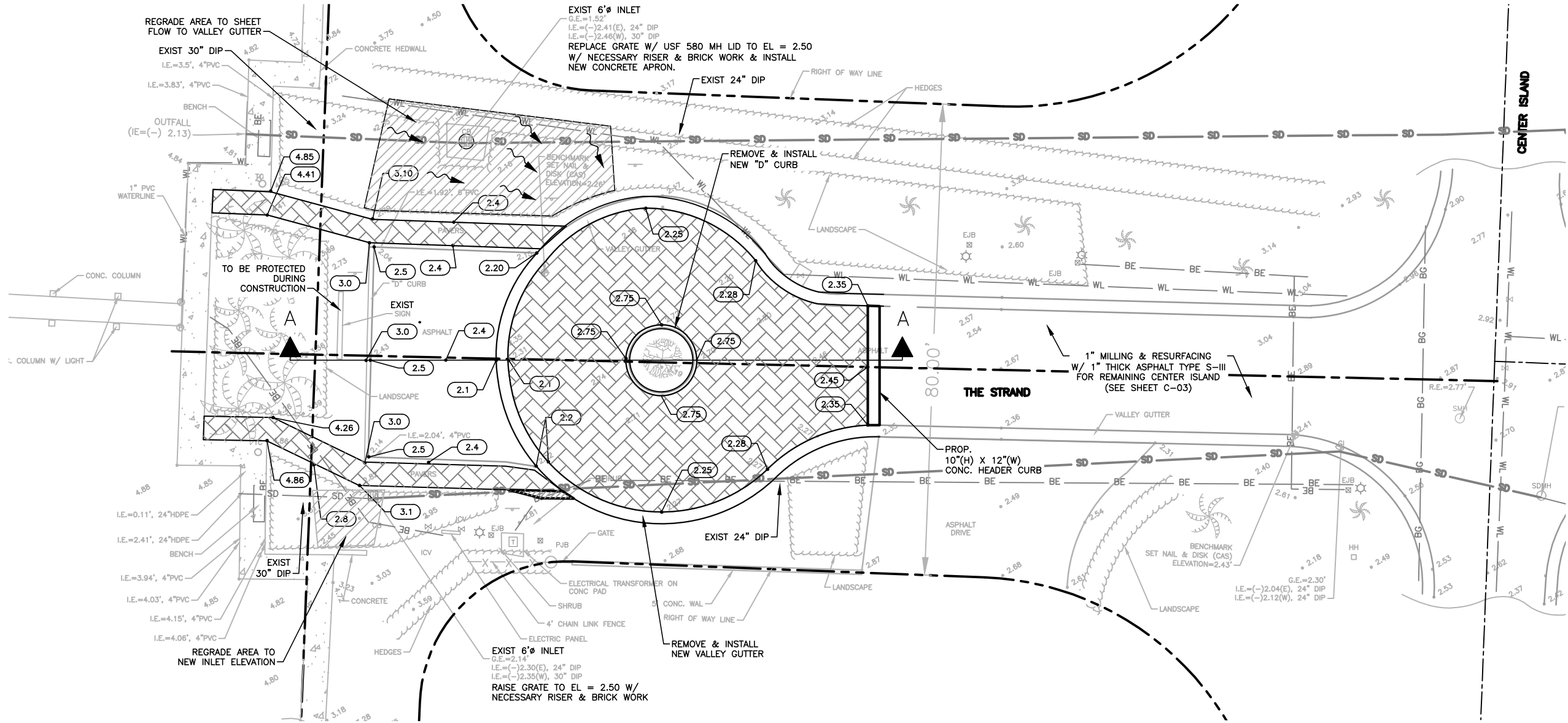
PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION
PLAN VIEW

FILE NAME: 50-2025-C-01-PLAN.dwg
LAST SAVED: 07/09/20 - 7:55am
CAS PROJECT NUMBER
18-2025

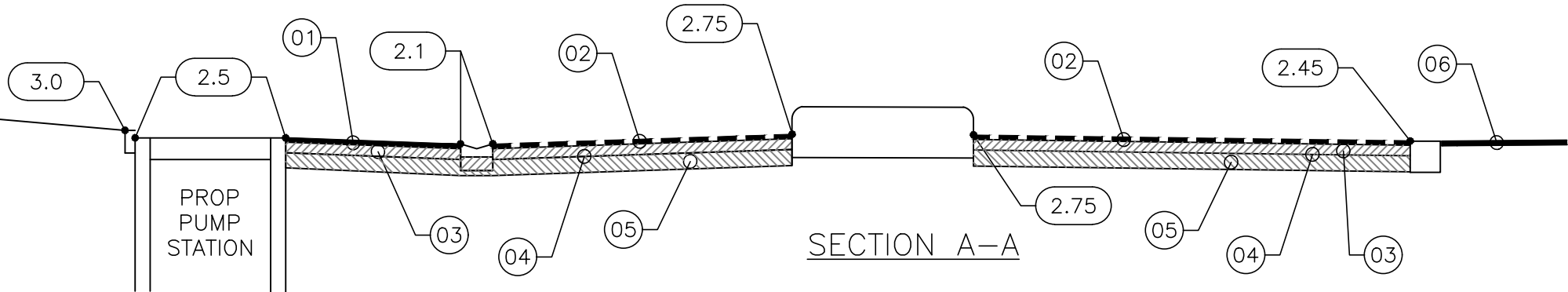
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C-01

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- NOTES:
1. THE EXISTENCE AND LOCATION OF ANY OF THE WATER AND/OR WASTEWATER LINES, VALVES, HYDRANTS, LIFT STATIONS, ETC., SHOWN ON THESE PLANS ARE NOT GUARANTEED BY THE MD-WASA OR CAS AND MUST BE VERIFIED IN THE FIELD.
 2. CONTRACTOR WILL OBTAIN A WATER USE PERMIT FOR ANY CONSTRUCTION DEWATERING AS NECESSARY FROM ANY WATER MANAGEMENT DISTRICT AND MDC-DERM.
 3. CONTRACTOR WILL OBTAIN A N.P.D.E.S. N.O.I. PERMIT FROM F.D.E.P. PRIOR TO COMMENCEMENT OF CONSTRUCTION AND COMPLY WITH THE MDC-DERM PERMIT.
 4. CONTRACTOR TO ADJUST WATER SERVICES IN DIRECT CONFLICT WITH PROPOSED DRAINAGE, TO BE COORDINATED WITH MDC-WASD.
 5. ALL STRUCTURES TO HAVE MIN. 18\"/>

1. 2.5\"/>
2. BRICK PAVERS (SEE LANDSCAPE PLANS).
3. 8\"/>
4. TENCATE MIRAFI RS380i GEOTEXTILE (OR APPROVED EQUAL).
5. 12\"/>
6. 1\"/>



BID SET

FOR CONSTRUCTION

NO.	DATE	N.R.T.S. REVISION	BY	

Date: 01/02/19
Designed: OAR
Drawn: KJL
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: _____
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB00031110

PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

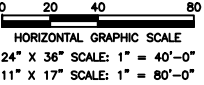
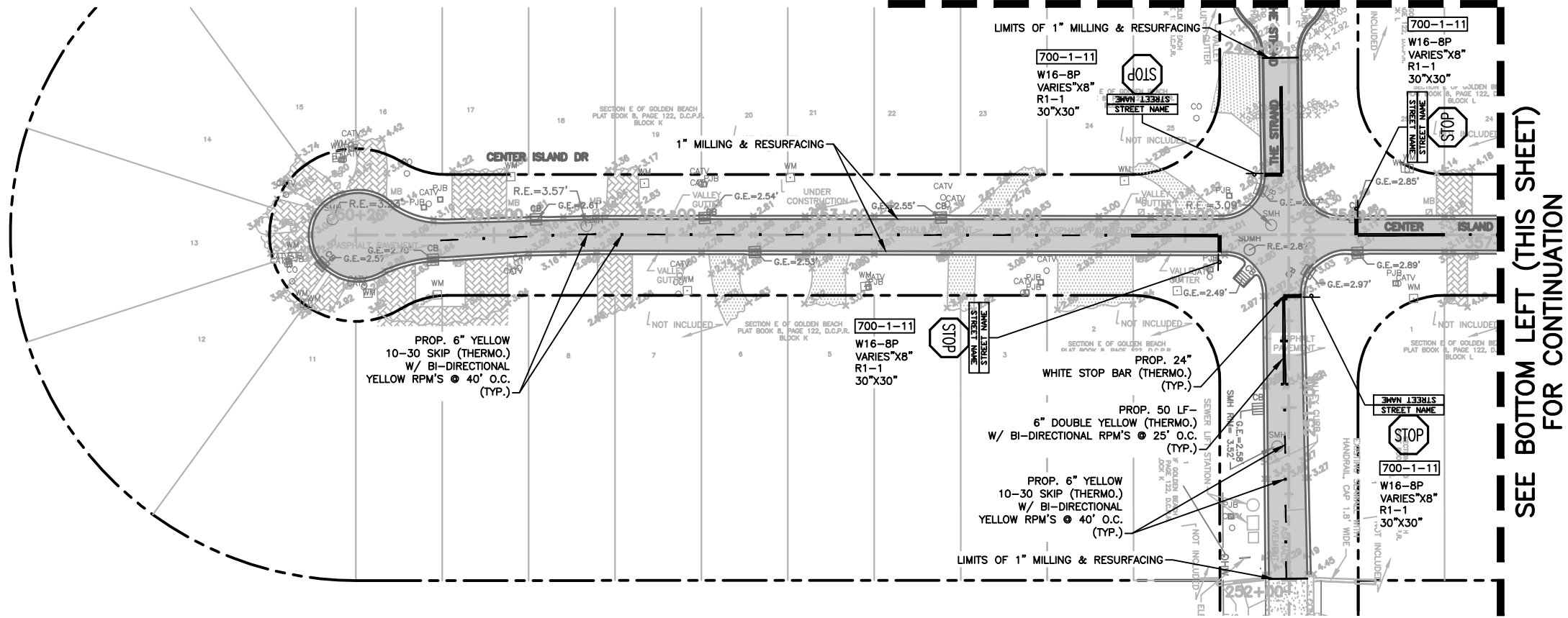
CENTER ISLAND PUMP STATION
GRADING PLAN

FILE NAME: 50-2025-C-02-GRADE.dwg
LAST SAVED: 06/30/20 - 1:43pm
CAS PROJECT NUMBER
18-2025

SHEET
C-02

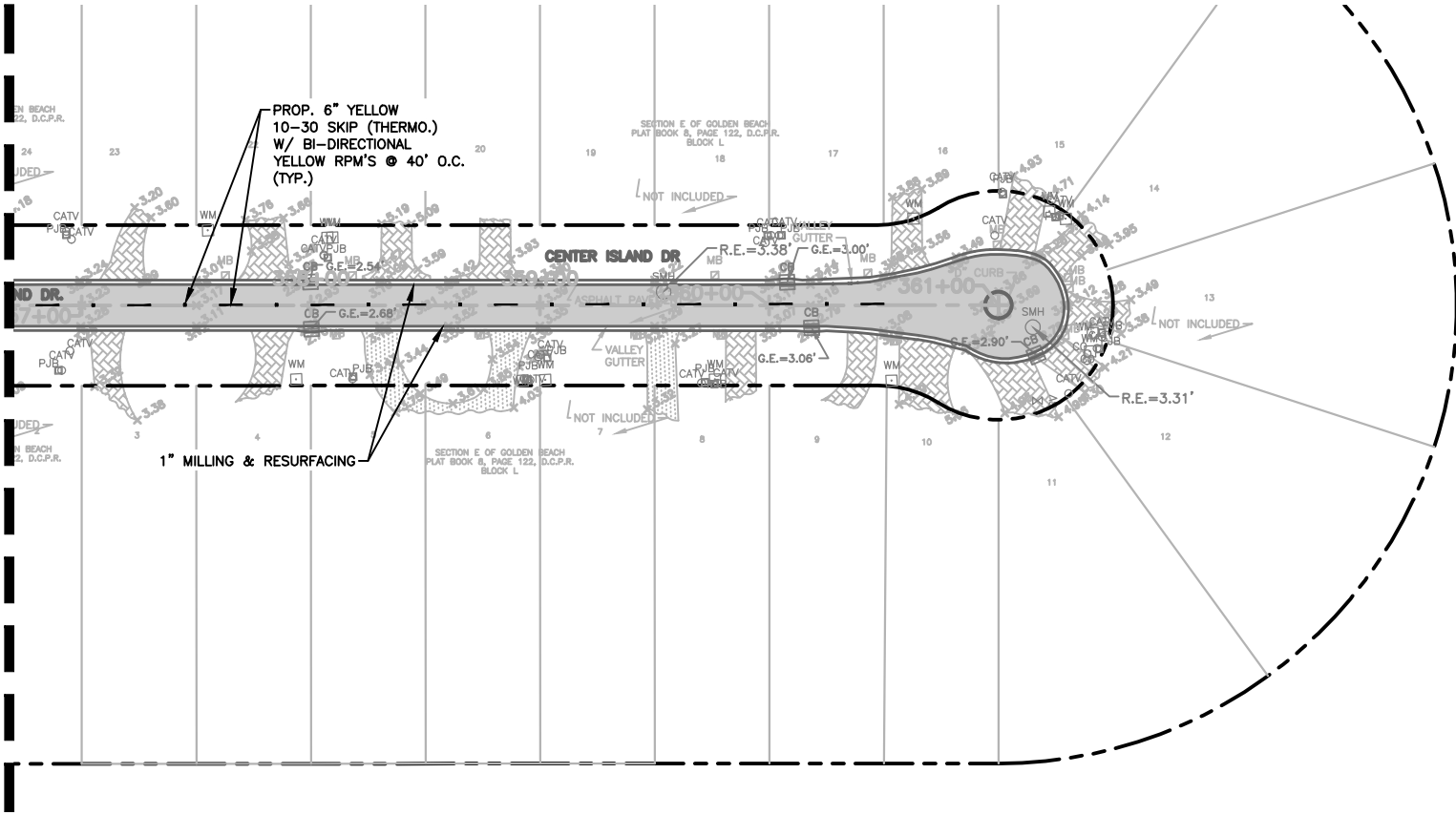
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SEE SHEET C-01 (FOR PROPOSED PUMP STATION)



- NOTES:
1. 1" MILLING & RESURFACING W/ 1" THICK ASPHALT TYPE S-III.

SEE TOP RIGHT (THIS SHEET) FOR CONTINUATION



BID SET

FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date: 01/02/19
Designed: OAR
Drawn: KJL
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

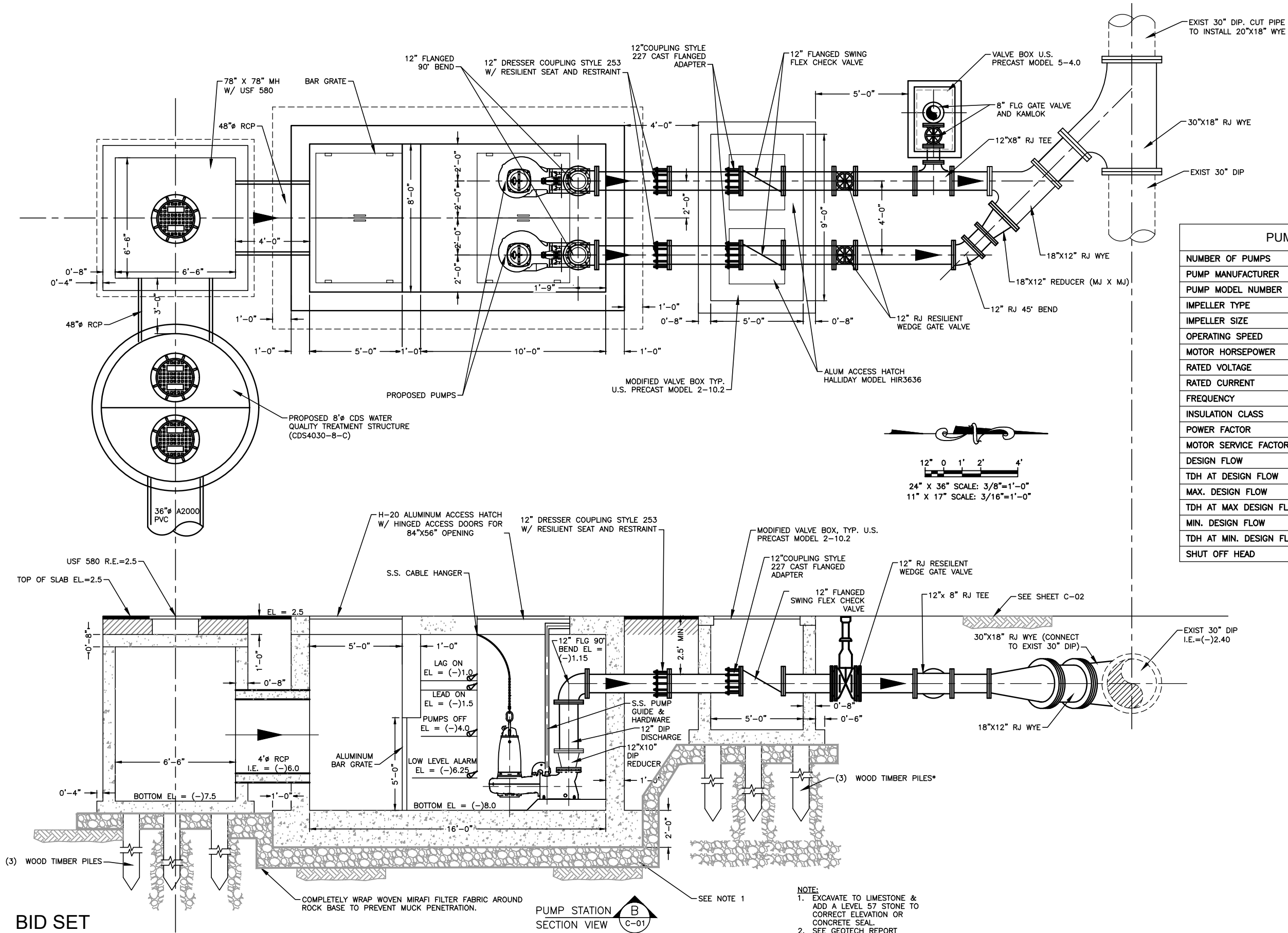
PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION
MILLING, RESURFACING,
PAVEMENT MARKING & STRIPING PLAN

FILE NAME: 50-2025-C-03-PMS.dwg
LAST SAVED: 07/06/20 - 7:03am
C/S PROJECT NUMBER
18-2025

SHEET
C-03

P:\Cities_Villages_Towns\Golden_Beach\18-2025-Center Island Pump Station\09-Plans\53-2025-C-04-PS-P.dwg, 7/19/2020 8:25:05 AM, mmarengo, l:2



PUMP STATION DATA TABLE		
NUMBER OF PUMPS	2	
PUMP MANUFACTURER	FLYGT XYLEM	
PUMP MODEL NUMBER	NP 3171 LT 3-617	
IMPELLER TYPE	OPEN BACK SWEEP 2 VANE	
IMPELLER SIZE	224	MM
OPERATING SPEED	1180	R.P.M.
MOTOR HORSEPOWER	18	HP
RATED VOLTAGE	460	VOLTS
RATED CURRENT	34.7	AMPS
FREQUENCY	60	HERTZ
INSULATION CLASS	F	-
POWER FACTOR	0.85	-
MOTOR SERVICE FACTOR	1.15	SF
DESIGN FLOW	2340	GPM
TDH AT DESIGN FLOW	12	FEET
MAX. DESIGN FLOW	2450	GPM
TDH AT MAX DESIGN FLOW	11	FEET
MIN. DESIGN FLOW	2210	GPM
TDH AT MIN. DESIGN FLOW	12.5	FEET
SHUT OFF HEAD	25	FEET

- NOTE:
- EXCAVATE TO LIMESTONE & ADD A LEVEL 57 STONE TO CORRECT ELEVATION OR CONCRETE SEAL.
 - SEE GEOTECH REPORT

BID SET

FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date: 01/02/19
Designed: OAR
Drawn: KJL
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: _____
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

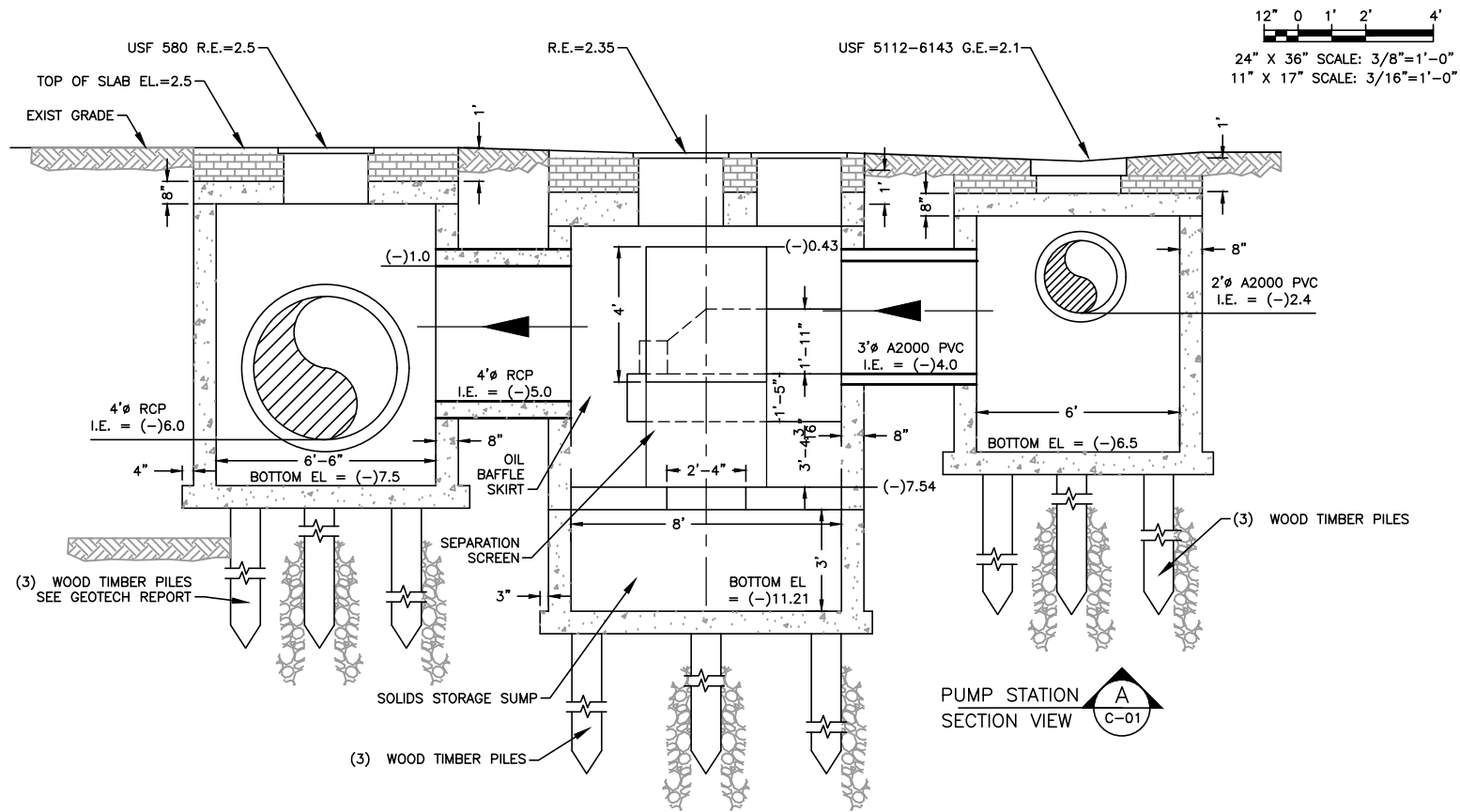
PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION

PUMP STATION
PLAN VIEW

FILE NAME: 53-2025-C-04-PS-P.dwg
LAST SAVED: 06/30/20 - 2:28pm
CAS PROJECT NUMBER
18-2025

SHEET
C-04



BID SET

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DATE	
FLORIDA PROFESSIONAL ENGINEER NO.	48265

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CERTIFICATE NO. LB0003110

PREPARED FOR:

TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION

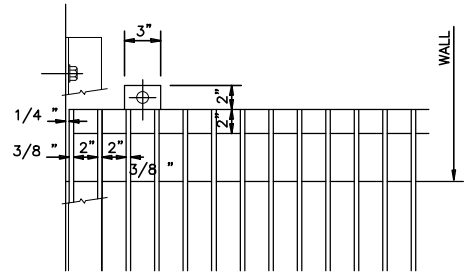
PUMP STATION
SECTION VIEWS

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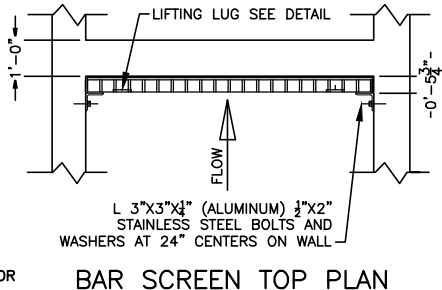
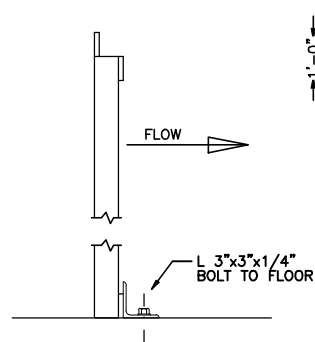
CAS PROJECT NUMBER
18-2025

SHEET

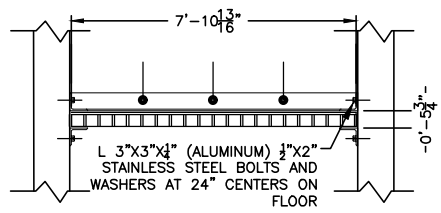
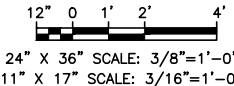
C-05



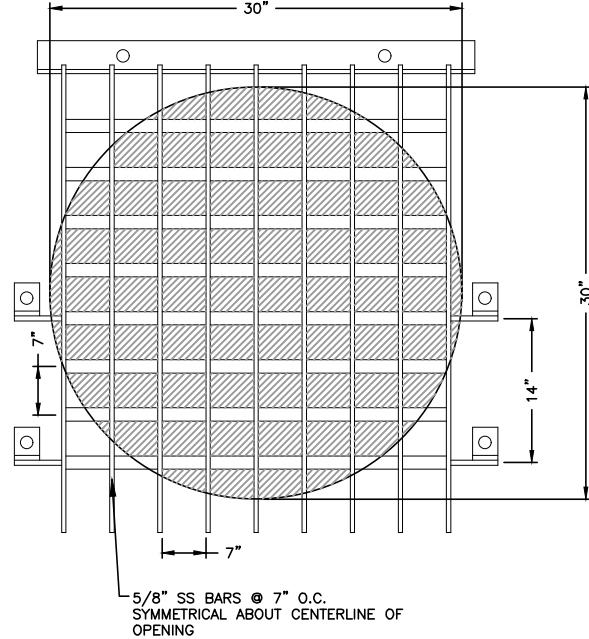
BAR SCREEN DETAIL



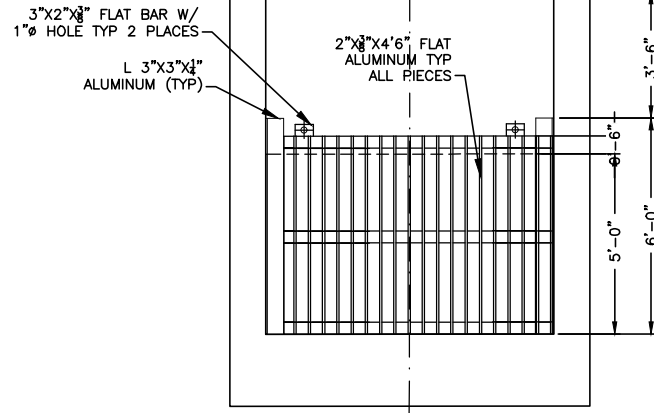
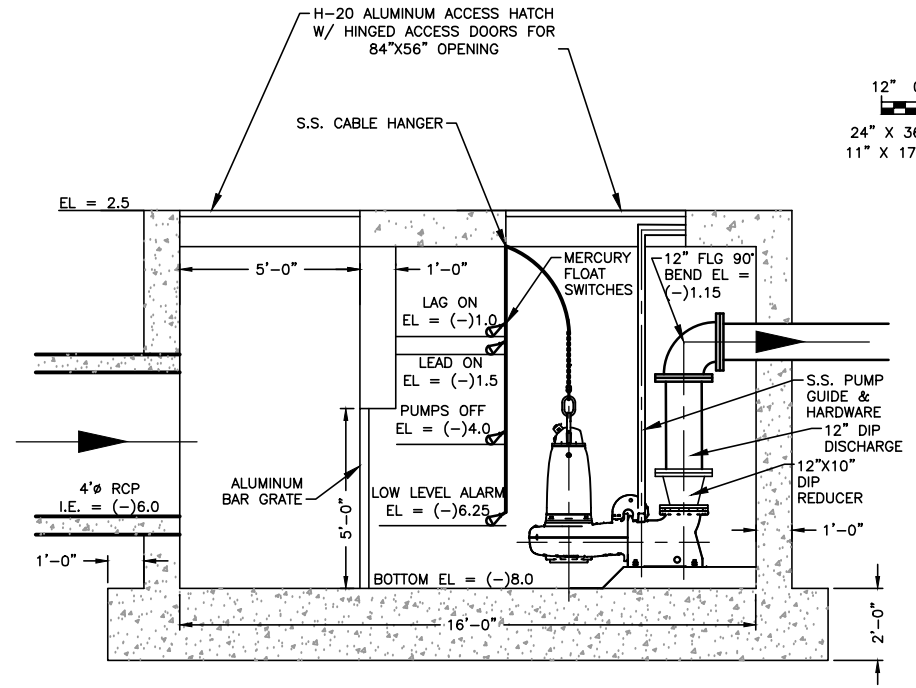
BAR SCREEN TOP PLAN



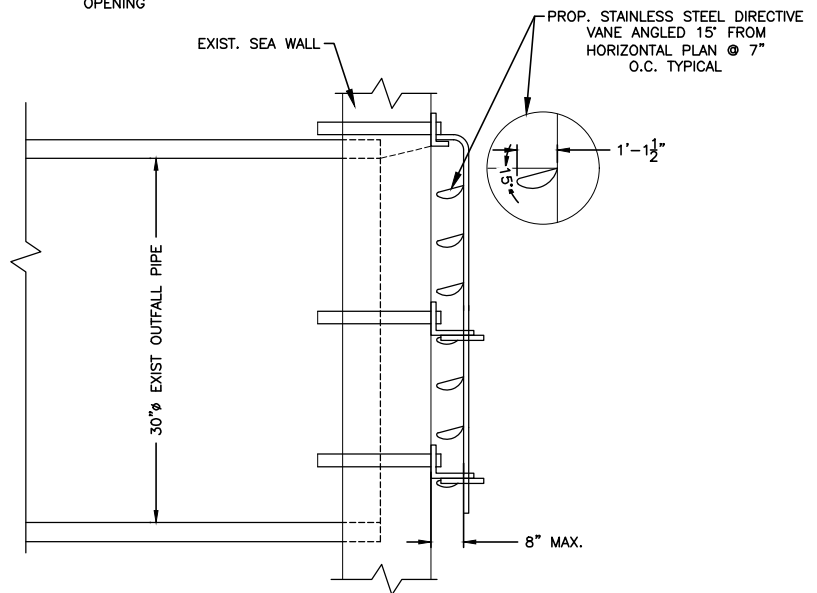
BAR SCREEN BOTTOM PLAN



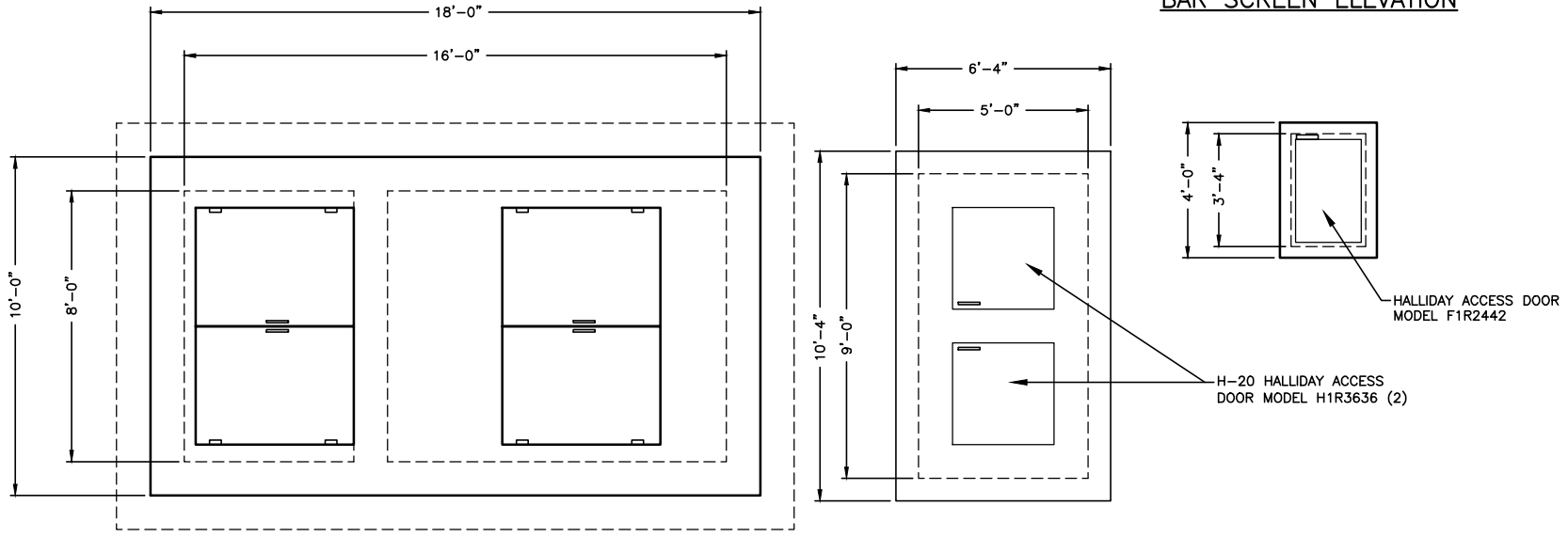
5/8" SS BARS @ 7" O.C.
SYMMETRICAL ABOUT CENTERLINE OF
OPENING



BAR SCREEN ELEVATION



PROPOSED MANATEE GRATE W/
DIRECTIVE VANES
N.T.S.



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FOR CONSTRUCTION

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(561) 314-4445
CERTIFICATE NO. LB0003110

PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

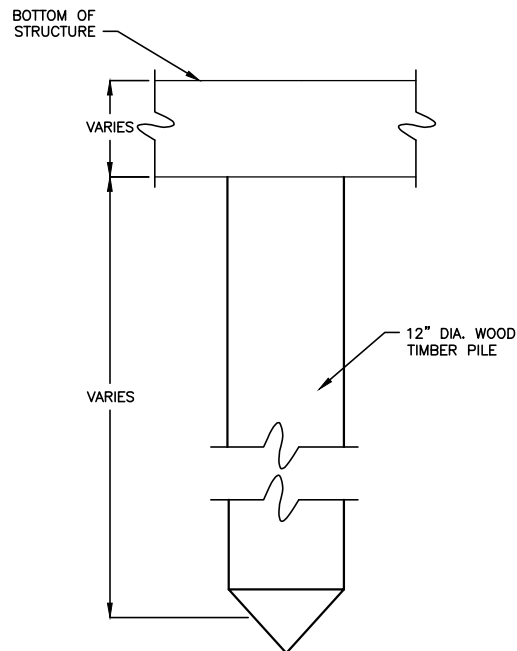
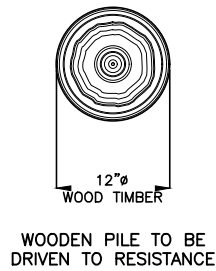
CENTER ISLAND PUMP STATION

PUMP STATION
DETAILS

FILE NAME: 53-2025-C-06-PS-DTL.dwg
LAST SAVED: 07/06/20 - 7:30am
CAS PROJECT NUMBER
18-2025

SHEET
C-06

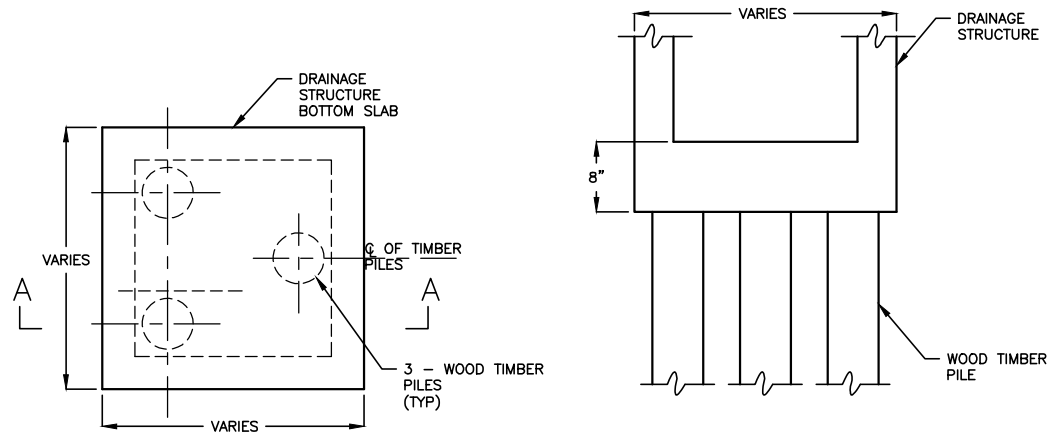
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TYP. WOOD PILE DETAIL
SCALE: N.T.S

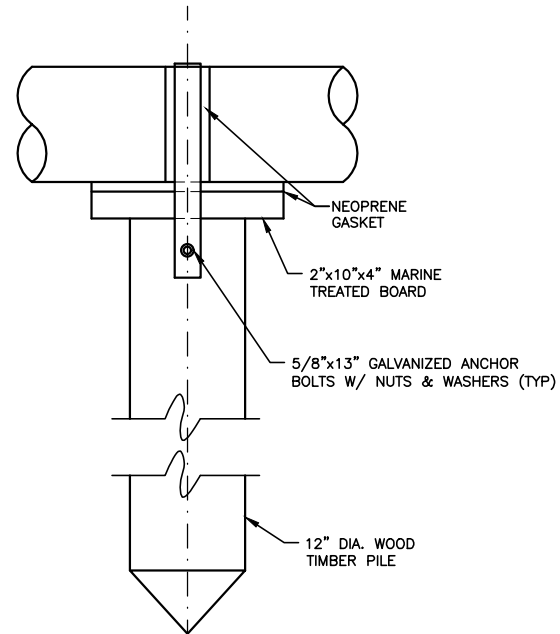
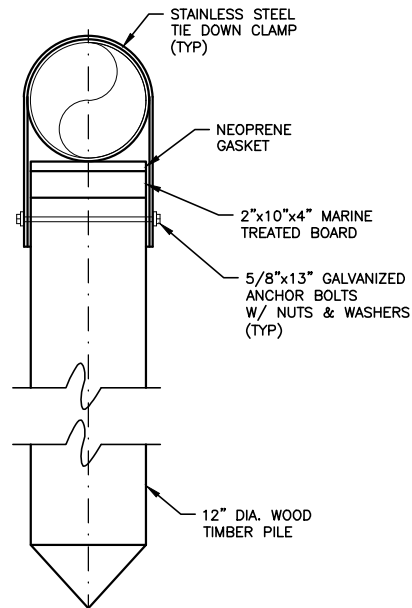
- NOTES :
- 1 ALL CONCRETE STRUCTURE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

BID SET



**DRAINAGE STRUCTURES ON
THREE WOOD TIMBER PILES**

**TYPICAL TIMBER PILE DETAILS FOR
DRAINAGE STRUCTURES**



PIPE SUPPORT TIMBER PILE DETAIL
SCALE: N.T.S

- NOTES:
1. ALL WOOD MUST BE MARINE TREATED.
 2. PILES TO BE PLACED EVERY 40' +/-

FOR CONSTRUCTION

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DATE _____
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BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

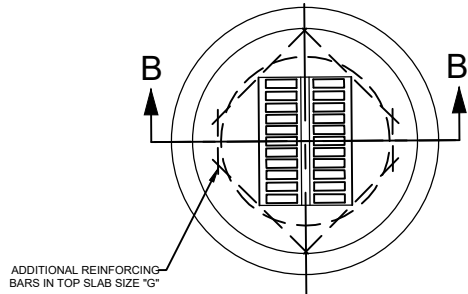
PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION

STANDARD DETAILS

FILE NAME: 53-2025-C-07-DTL.dwg
LAST SAVED: 07/06/20 - 7:31am
CAS PROJECT NUMBER
18-2025

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C-07



PLAN



SECTION B-B
VALLEY GUTTER
CATCH BASIN



PLAN

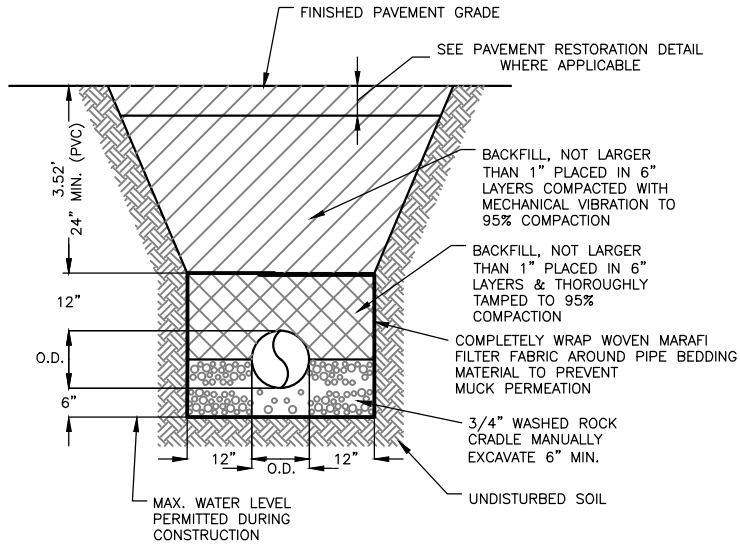


SECTION

PRECAST DRAINAGE MANHOLE/CATCH BASIN

TYPE	"A"	"B"	"C"	"D"	"E"	"F"	"G"
C-3.5 / M-3.5	3'-6"	6"	8"	ASTM C-478	#4 @ 12" C.C.E.W.	4'-8"DIA	#4 @ 6" C.C.E.W.
C-4 / M-4	4'-0"	8"	8"	#4 @ 12" C.C.E.W.	#4 @ 12" C.C.E.W.	6'-4"DIA	#4 @ 6" C.C.E.W.
C-5 / M-5	5'-0"	8"	8"	#5 @ 12" C.C.E.W.	#5 @ 12" C.C.E.W.	7'-4"DIA	#5 @ 8" C.C.E.W.
C-6 / M-6	6'-0"	8"	10"	#5 @ 12" C.C.E.W.	#5 @ 6" C.C.E.W.	8'-4"DIA	#5 @ 6" C.C.E.W.
C-7 / M-7	7'-0"	8"	10"	#5 @ 12" C.C.E.W.	#5 @ 6" C.C.E.W.	9'-4"DIA	#5 @ 6" C.C.E.W.
C-8 / M-8	8'-0"	10"	10"	2-W.W.M.w/#4 @12" C.C. VERT.	#5 @ 6" C.C.E.W.	10'-8"DIA	#5 @ 6" C.C.E.W.

BID SET
PRECAST DRAINAGE STRUCTURE



NOTE:

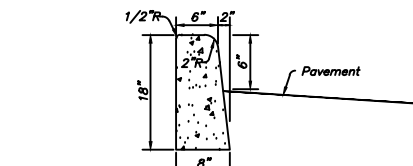
1. MAXIMUM DENSITY DETERMINED BY AASHTO T-99

TRENCH INSTALLATION DETAIL

SCALE: N.T.S.

DRAINAGE NOTES

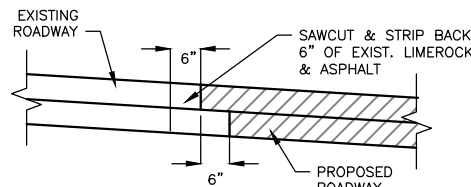
1. JOINTS IN RCP SHALL EMPLOY O-RING TYPE GASKETS AS SPECIFIED IN SECTION 942-1 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS AND ASTM C443-98.
2. PRECAST CONCRETE MANHOLES AND CATCH BASINS SHALL MEET THE REQUIREMENTS OF A.S.T.M. SPECIFICATION C-478 AND 64T.
3. CONCRETE FOR PRECAST MANHOLES AND CATCH BASINS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
4. REINFORCING STEEL FOR MANHOLES AND CATCH BASINS SHALL CONFORM TO A.S.T.M. SPECIFICATION A-615 AND A-305, LATEST REVISION.
5. ALL RE-BAR SPLICES IN CONCRETE STRUCTURES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS.
6. ALL JOINTS IN CONCRETE STRUCTURES SHALL BE FINISHED WATERTIGHT.
7. ALL SPACES AROUND PIPING ENTERING OR LEAVING MANHOLES AND CATCH BASINS SHALL BE COMPLETELY FILLED WITH 2:1 CEMENT MORTAR.
8. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III WATER TIGHT AND CONFORM TO THE REQUIREMENTS OF SECTION 941-1 THROUGH 1.5, INCLUSIVE, OF THE FLORIDA D.O.T. STANDARD SPECIFICATIONS
9. PROPOSED STORM WATER COLLECTION SYSTEM, STORM WATER FORCE MAIN AND STORMCEPTORS TO BE WATER TIGHT AT ALL JOINTS, FITTINGS AND STRUCTURES.
10. THE CONTRACTOR IS REQUIRED TO PERFORM AN INFILTRATION/EXFILTRATION TEST ON THE STORM WATER GRAVITY SYSTEM TO VERIFY WATER TIGHTNESS.
11. CONTRACTOR TO PROTECT ALL EXISTING STORM WATER INLETS WITH EITHER MIRAFI PAPER OR BAILS OF HAY IN ACCORDANCE W/ SWPPP.



- NOTES:
1. Provide 1/8" To 1/4" Construction Joints At 10' Intervals (Max.)
 2. Subgrade Shall Be Compacted To a 95% Density AASHTO T-180C

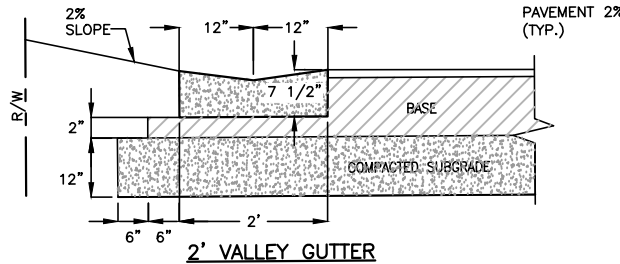
TYPE "D" CURB

N.T.S.

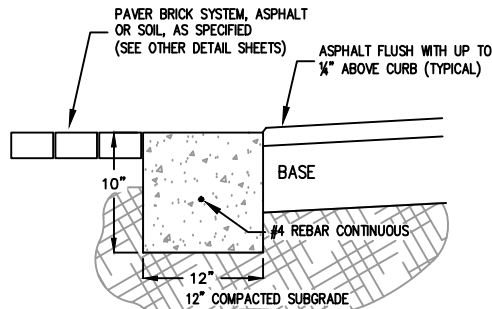


ASPHALT TIE-IN DETAIL

SCALE: N.T.S.



2' VALLEY GUTTER



HEADER CURB

SCALE: N.T.S.

54.87" [1394mm] MAX.
8.00" [203mm] CUFF
8.00" [203mm] CUFF
SEE NOTE #2
SEE NOTE #2
SADDLE
FLOW
BILL
BILL NOTCH
PIPE WALL
BILL NOTCH
SEE NOTE #1
30.00" [762mm] PIPE I.D.
4.00" [102mm]
0.50" [13mm]
(4) - 0.50" [13mm] DIA. S/STEEL HEX HEAD BOLTS
.125" TYP.
CHECKMATE
(4) - 0.63" [16mm] DRILL AT FINAL ASSEMBLY
PIPE WALL

PIN PER NOTE #4
RECOMMENDED PINNING CONFIGURATION
(SUPPLIED BY CUSTOMER) (SEE I.O.M.)
NOT TO SCALE

CUSTOMER: XXX
ORDER No: XXX

ITEM	QTY.	DESCRIPTION	MAT'L
1	1	ULTRAFLEX CHECKMATE CHECK VALVE	MUST BE SUPPLIED
2	2	CLAMP	MUST BE SUPPLIED

NOTES:

1. PIPE INSIDE DIAMETER - MUST BE SUPPLIED
(MINIMUM ALLOWABLE PIPE DIAMETER - 29.37 INCHES)
2. CLAMP INSTALLED IN UPSTREAM OR DOWNSTREAM CUFF
DEPENDING ON INSTALLATION ORIENTATION
3. MAXIMUM ALLOWABLE BACK PRESSURE - 38.0 FEET
4. IT IS RECOMMENDED TO BOLT OR PIN CHECKMATE
TO PIPE AS SHOWN, 4 PLACES 90° APART

SADDLE GROOVES
SADDLE GROOVES
BILL NOTCH
BILL NOTCH

SEE NOTE #1
30.00" [762mm] PIPE I.D.

PRELIMINARY DRAWING
NOT FOR APPROVAL PURPOSES

OPPORTUNITY No: XXXXX SALES ORDER No: TXX-XXXX

Tideflex Technologies
A Division of Red Valve Company, Inc.
600 N. BELL AVE.
CARNEGIE, PA. 15106
info@tideflex.com
412.279.0044
fax 412.279.5410

TT PRODUCT: 30" ULTRAFLEX CHECKMATE CHECK VALVE
TT PART No: CMCBUF-300-APPROVAL
DR. BY: TLM DATE: 2-6-17 CHKD. BY: DATE: REV
CAD SCALE: FULL
PLOT SCALE: 1 = 1 DWG No: TTS-XXXX

* PATENT PENDING *

PROPRIETARY NOTICE

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FOR CONSTRUCTION

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APPROVED BY: ORLANDO A. RUBIO, P.E.
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FLORIDA PROFESSIONAL ENGINEER NO. 48265

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21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB00031110

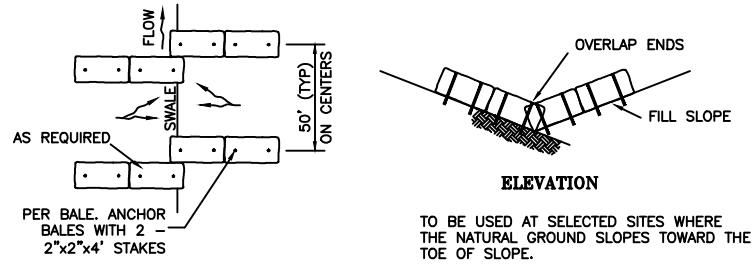
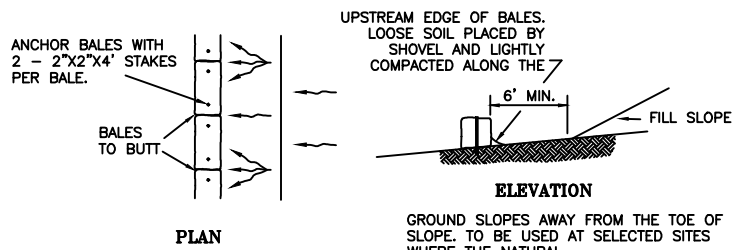
PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION
STANDARD DETAILS

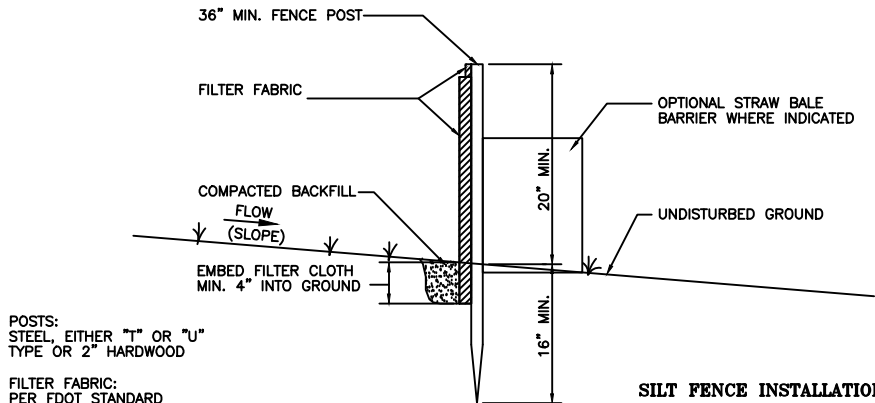
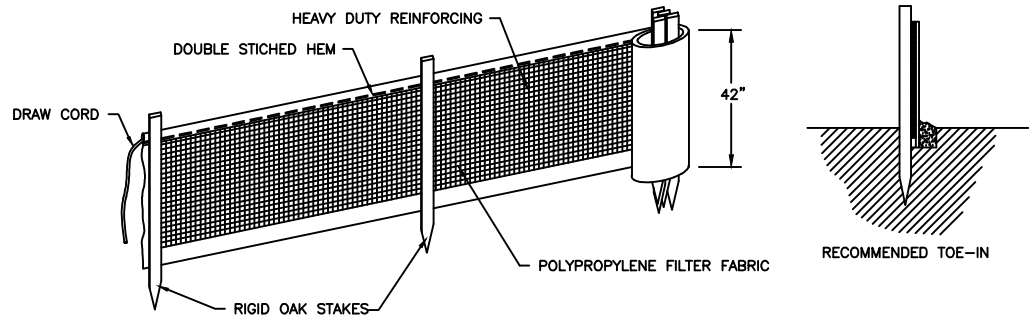
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CAS PROJECT NUMBER
18-2025

SHEET
C-08

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HAY BALE INSTALLATION



POSTS:
STEEL, EITHER "T" OR "U"
TYPE OR 2" HARDWOOD

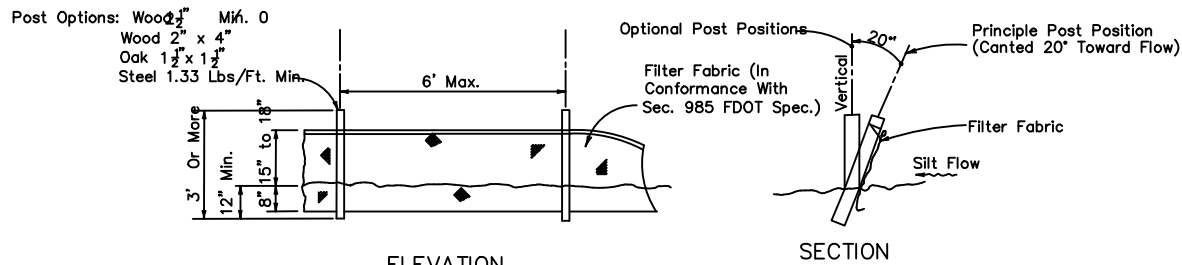
FILTER FABRIC:
PER FDOT STANDARD
SPECIFICATION PER
FDOT INDEX 102

PREFABRICATED UNIT:
GEOFAB, ENVIROFENCE,
OR APPROVED EQUAL

SILT FENCE INSTALLATION

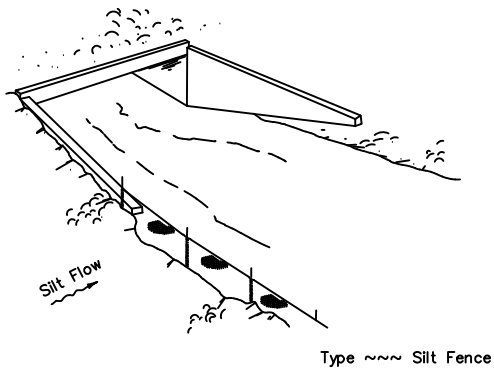
SILT FENCE NOTES:

1. FILTER FABRIC FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH TIES SPACED EVERY 24 INCHES AT TOP AND MID. SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE OR DEPTH OF ACCUMULATED SEDIMENT REACHES 6 INCHES.
5. SILT FENCE SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL CONSTRUCTION IS COMPLETE.
6. THE CONTRACTOR SHALL INSPECT AND REPAIR THE SILT FENCE AFTER EACH RAIN EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
7. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFFSITE AND CAN BE PERMANENTLY STABILIZED.
8. THE SILT FENCE SHALL BE PLACED ON SLOPE CONTOUR TO MAXIMIZE ITS PONDING EFFICIENCY.
9. IF DITCH LEVEL IS DEEPER THAN 30", THEN A FLOATING SILT SCREEN SHALL BE USED

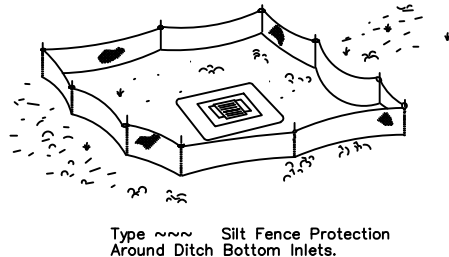


Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

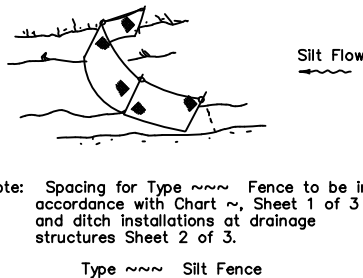
TYPE ~~~ SILT FENCE



Type ~~~ Silt Fence



Type ~~~ Silt Fence Protection
Around Ditch Bottom Inlets.



Note: Spacing for Type ~~~ Fence to be in accordance with Chart ~, Sheet 1 of 3 and ditch installations at drainage structures Sheet 2 of 3.

Type ~~~ Silt Fence

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS

BID SET

FOR CONSTRUCTION

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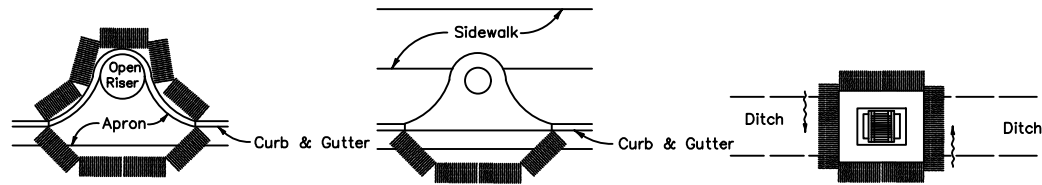
CRAIG A. SMITH & ASSOCIATES
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(561) 314-4445
CERTIFICATE NO. LB0003110

PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION
GUIDE FOR SEDIMENT & EROSION
CONTROL BMP'S

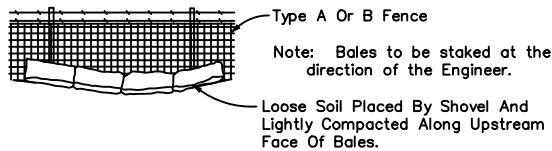
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CAS PROJECT NUMBER
18-2025

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C-09

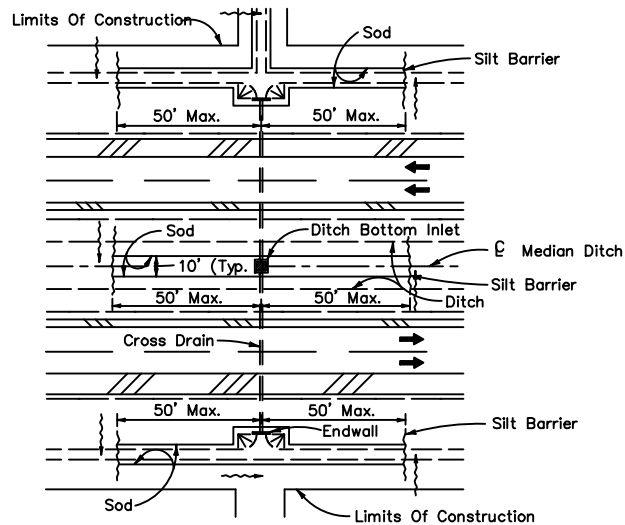


PARTIAL INLET COMPLETED INLET DITCH BOTTOM INLET

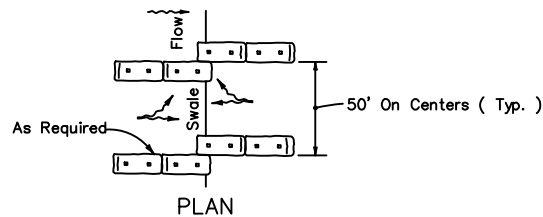
Anchor Bales With 2 - 2" x 2" x 4' Stakes Per Bale.
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



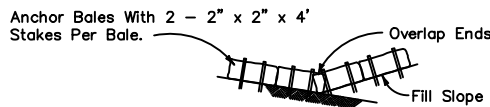
BALES BACKED BY FENCE



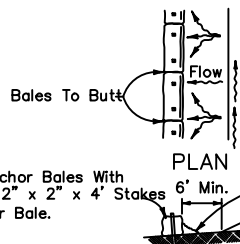
DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



ELEVATION



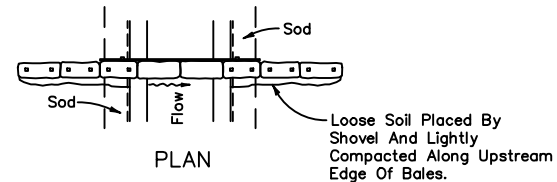
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



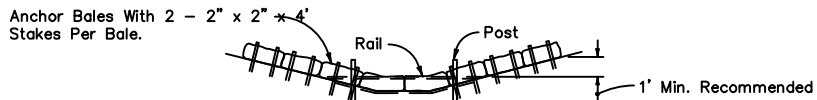
ELEVATION

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

BARRIERS FOR FILL SLOPES

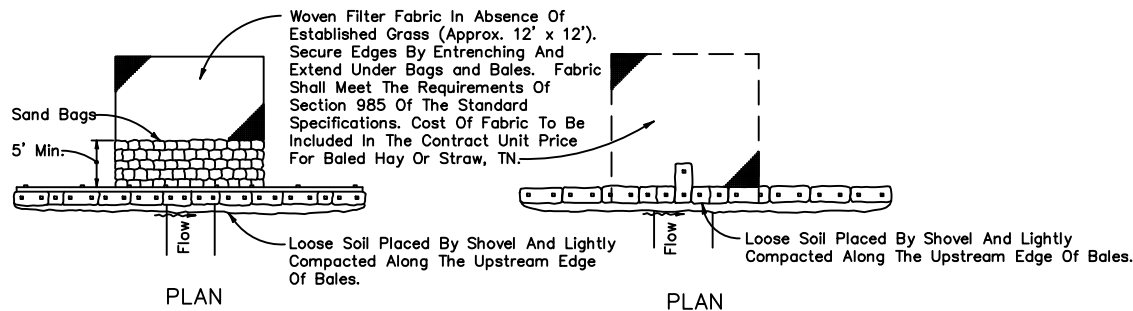


ELEVATION

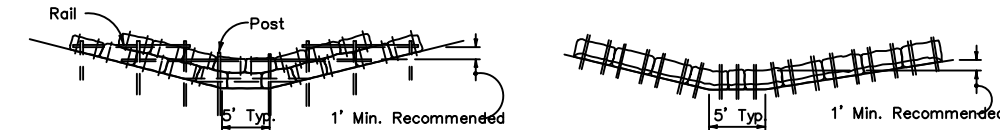


Spacing: Bale barriers for paved ditches should be spaced in accordance with Chart J, Sheet 1 of 3, Index No. 102

BARRIER FOR PAVED DITCH



ELEVATION



Anchor Lower Bales With 2 - 2" x 2" x 4' Stakes Per Bale.
Anchor Top Bales To Lower Bales With 2 - 2" x 2" x 4' Stakes Per Bale

ELEVATION

Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in Chart I, Sheet 1 of 3, Index No. 102

TYPE II

ELEVATION

TYPE I

BARRIER FOR UNPAVED DITCHES

BID SET

FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date:	01/02/19
Designed:	OAR
Drawn:	KJL
Checked:	OAR

APPROVED BY:	ORLANDO A. RUBIO, P.E.
DATE:	
FLORIDA PROFESSIONAL ENGINEER NO.	48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

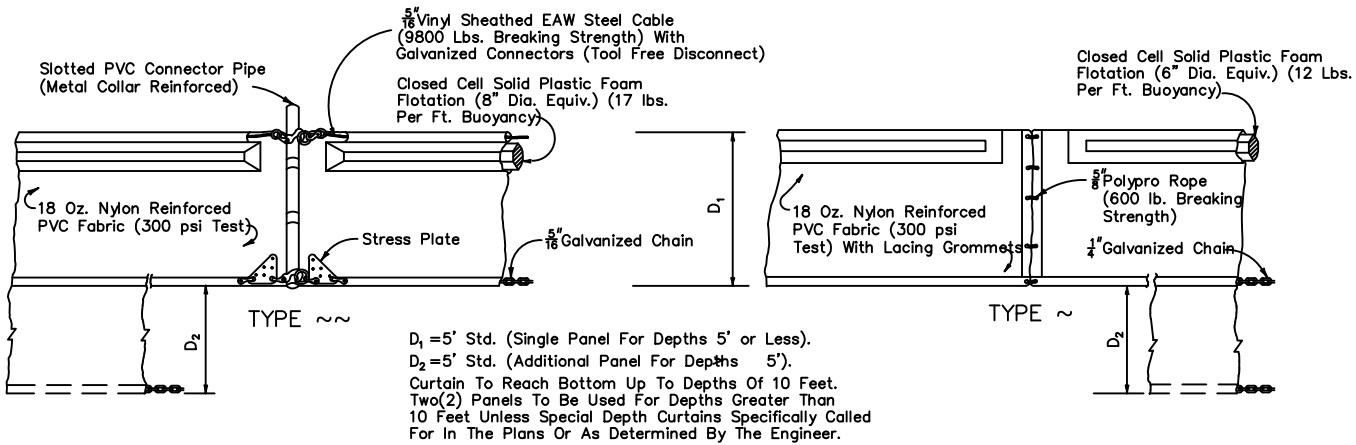
PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION
GUIDE FOR SEDIMENT & EROSION CONTROL BMP'S

FILE NAME: 53-2025-C-10-DTL.dwg
LAST SAVED: 07/06/20 - 7:36am
CAS PROJECT NUMBER
18-2025

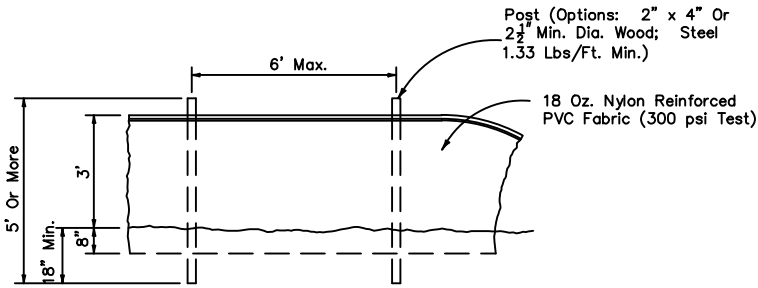
SHEET
C-10

P:\Cities_Villages_Towns\Golden_Beach\18-2025-Center Island Pump Station\09-Plans\53-2025-C-11-DTL.dwg, 7/19/2020 8:19:48 AM, mmarengo, 1:2



NOTICE: COMPONENTS OF TYPES ~ AND ~ MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES ~ AND ~ SHALL BE AS APPROVED BY THE ENGINEER.

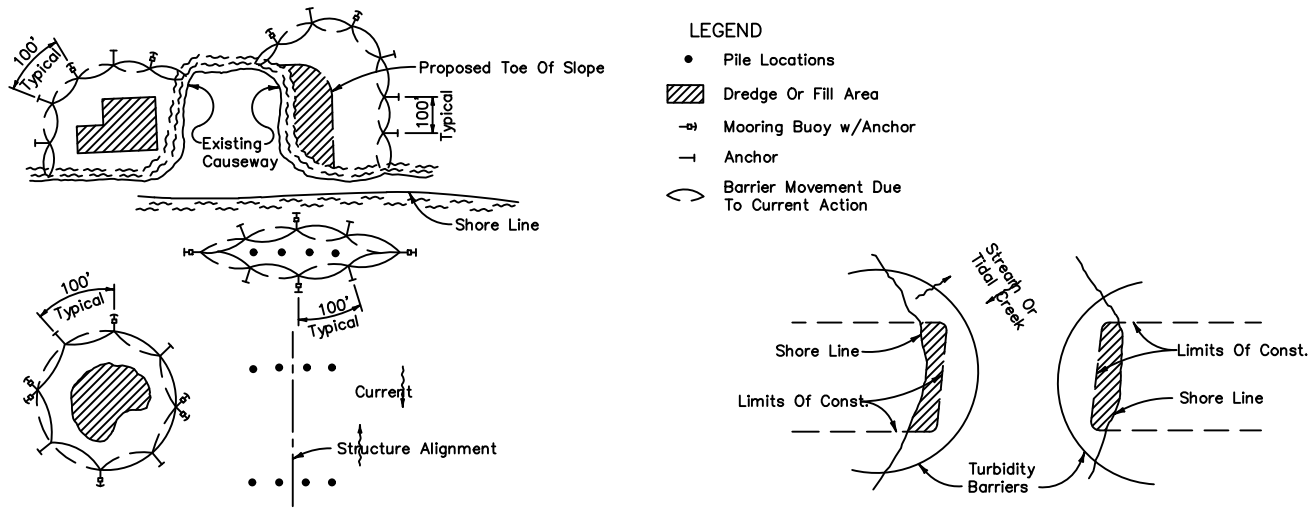
FLOATING TURBIDITY BARRIERS



STAKED TURBIDITY BARRIER

GENERAL NOTES

1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.



- NOTES:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
 2. Number and spacing of anchors dependent on current velocities.
 3. Deployment of barrier around pile locations may vary to accommodate construction operations.
 4. Navigation may require segmenting barrier during construction operations.
 5. For additional information see Section 104 of the Standard Specifications.

Note:
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

TURBIDITY BARRIER APPLICATIONS

BID SET

FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date:	01/02/19
Designed:	OAR
Drawn:	KJL
Checked:	OAR

APPROVED BY:	ORLANDO A. RUBIO, P.E.
DATE	
FLORIDA PROFESSIONAL ENGINEER NO.	48265

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PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

CENTER ISLAND PUMP STATION

GUIDE FOR SEDIMENT & EROSION
CONTROL BMP'S

FILE NAME: 53-2025-C-11-DTL.dwg
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CAS PROJECT NUMBER
18-2025

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C-11