ENLARGED SITE PLAN

WASTEWATER TREATMENT PLANT REPLACEMENT
PEBBLE BEACH HOMEOWNERS ASSOCIATION, INC.
EMERALD ISLE, NORTH CAROLINA

CONSULTING ENGINEERS
DIEHL & PHILLIPS, P.A.
219 E. CHATHAM ST.
CARY, N.C. 27511 • (919) 467-9972

REVISIONS

JOB NO.	DESIGN	DRAWN	CHECKED	SCALE	CHECKED
—	JFP	JLB	JFP	1" = 1'-0"	JFP

PB-PLANTPVR2
FILE

SHEET 4 OF 17

EXISTING STORAGE BUILDING

EXISTING INFLUENT PUMP STATION

EXIST. INFLUENT P.S. CONTROL PANEL

6" D.I. FROM INFLUENT P.S.

PROVIDE FITTINGS AS REQ'D TO CONNECT NEW 3" SUPERNATANT DECANT LINE TO EXISTING INFLUENT P.S. FORCEMAIN

EXIST. ANOXIC TANK (CONVERT TO SLUDGE CONDITIONING TANK SEE SHEET 9 FOR DETAILS)

3" SUPERNATANT DECANT w/ SWIVEL JOINT

4" SLUDGE LINE TO SLUDGE CONDITIONING TANK

3 HP ASPIRATOR/MIXER

4" SLUDGE PIPING

INFLUENT FLOW EQUALIZATION

4" SLUDGE PIPING

ANAEROBIC CHAMBER No. 3

SAM TANK No. 3

SBR No. 3

ORP PROBE

4" FLO. VENT w/ NON-METALLIC INSECT SCREEN (TYP. OF 3)

4" SLUDGE PIPING

ANAEROBIC CHAMBER No. 2

SAM TANK No. 2

SBR No. 2

JET MOTIVE/FILL PUMP (TYP.)

¾"ø S.S. CONC. EXP. ANCHOR PROJECT 3" ABOVE SLAB (TYP. OF 4)

INFLUENT FLOW SPLITTER BOX (SEE DETAIL SHT. 10)

¾"ø GALV. HANDRAIL (TYP.) SEE DETAIL SHT. 11

4" SLUDGE PIPING

ANAEROBIC CHAMBER No. 1

SAM TANK No. 1

SBR No. 1

20" x 24" ALUMINUM ACCESS COVER (TYP. 3 PLACES)

BARSCREEN BOX (SEE DETAIL SHT. 10)

SAFETY CHAIN (TYP. 11 PLACES) SEE DETAIL SHT. 11

FLUSH MOUNT HOIST SOCKET (3 REQ'D)

INFLUENT FLOW EQUALIZATION PUMP No. 1

INFLUENT FLOW EQUALIZATION PUMP No. 2

INFLUENT FLOW SPLITTER BOX (SEE DETAIL SHT. 10)

316 STAINLESS STEEL HOLD-DOWN CLAMP. MADE FROM 1/4"x1 1/2" F.G. STOCK. SECURE W/ 1/2"ø SS CHEMICALLY BONDED ANCHORS (3 REQ'D)

4" FLO. 90° BEND

4" FLO. 90° BEND

FLOAT SWITCH BRACKET (8 REQ'D)

EMBEDDED HOIST SOCKET (7 REQ'D)

SUBGE CHAMBER (TYP.)

ORP PROBE

JUNCTION BOX (TYP.)

SLUICE GATE W/ GEARED OPERATOR (TYP.)

SOLENOID VENT VALVE ENCLOSURE (TYP. OF 3)

MOTORIZED BFV ACTUATOR, INSTALLED ON A PEDESTAL ABOVE THE BFV. (TYP.)

FIXED DECANTER

SBR PUMP-MIXER (TYP. OF 3)

3 HP ASPIRATOR/MIXER

EDGE OF FOUNDATION

AIR COMPRESSOR FOR ORP SYSTEM AUTOMATIC CLEANING.

MULTI-CHANNEL ORP PROCESSOR

ORP PROBE

EFFLUENT FLOW EQUALIZATION

EFFLUENT

EFFLUENT FLOW EQUALIZATION PUMP No. 1

EFFLUENT FLOW EQUALIZATION PUMP No. 2

ACCESS LADDER - SEE DETAIL SHT. 11

3" FLO. 90° BEND

¾"ø S.S. CONC. EXP. ANCHOR PROJECT 3" ABOVE SLAB (TYP. OF 4)

1'-6" x 1'-6" x 4" THK. CONCRETE PAD

4" MJ 90° BEND

3" FLO. 90° BEND

3" FLO. 90° BEND

3" FLO. 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

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4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ TEE

4" MJ TEE

4" MJ 45° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90° BEND

4" MJ 90