



**ENLARGED POWER PLAN**  
SCALE: 1/4"=1'-0"

- FH-25,27,29
- FH-31,33,35
- FH-37,39,41
- FH-43,45,47
- FH-49,51,53
- FH-55,57,59
- FH-20,22,24
- FH-26,28,30
- FH-32,34,36
- FH-38,40,42
- FH-44,46,48
- FH-50,52,54



**PUMP CONNECTION DIAGRAM**  
SCALE: NONE

PUMP DESIGNATION	PUMP DESCRIPTION	MOTOR (HP)	WIRE AND CONDUIT FROM PANEL "FH" TO VFD & FROM VFD TO PUMP
PP1	COMPETITION POOL RECIRCULATION PUMP #1 (VFD 1)	25	1" C WITH 3 #6, 1 #8 EG.
PP2	COMPETITION POOL RECIRCULATION PUMP #2 (VFD 2)	25	1" C WITH 3 #6, 1 #8 EG.
PP3	LAZY RIVER RECIRCULATION PUMP (VFD 3)	30	1" C WITH 3 #6, 1 #8 EG.
PP4	LAZY RIVER PROPULSION PUMP #1 (VFD 4)	25	1" C WITH 3 #6, 1 #8 EG.
PP5	LAZY RIVER PROPULSION PUMP #2 (VFD 5)	25	1" C WITH 3 #6, 1 #8 EG.
PP6	LAZY RIVER PROPULSION PUMP #3 (VFD 6)	25	1" C WITH 3 #6, 1 #8 EG.
PP7	LAZY RIVER FEATURE PUMP (VFD 7)	5	3/4" C WITH 3 #12, 1 #12 EG.
PP8	BOWL SLIDE PUMP (VFD 8)	20	3/4" C WITH 3 #8, 1 #10 EG.
PP9	ENCLOSED FLUME SLIDE PUMP (VFD 9)	20	3/4" C WITH 3 #8, 1 #10 EG.
PP10	OPEN FLUME SLIDE PUMP (VFD 10)	20	3/4" C WITH 3 #8, 1 #10 EG.
PP11	CHILDREN'S POOL RECIRCULATION PUMP (VFD 11)	10	3/4" C WITH 3 #12, 1 #12 EG.
PP12	CHILDREN'S POOL FEATURE PUMP (VFD 12)	25	1" C WITH 3 #6, 1 #8 EG.

**NOTES**

- STUB-UP CONDUIT FOR CONNECTION FROM VFD TO PUMP. COORDINATE LOCATION WITH POOL SYSTEM INSTALLER /ARCHITECT PRIOR TO ROUGH-IN. REFER TO PUMP SCHEDULE THIS SHEET FOR CONDUIT REQUIREMENTS.
- STUB-UP CONDUIT FOR CONNECTION TO PUMP VIA VFD. COORDINATE LOCATION WITH POOL SYSTEM INSTALLER /ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE (1) 1" CONDUIT WITH CAT5 ETHERNET CABLE TO TERMINAL BOARD IN IT ROOM 105 IN BATHHOUSE BUILDING.
- U.V. SYSTEM CONTROLLER. PROVIDE (1) 1" EMPTY CONDUIT WITH PULL STRING FROM UV CONTROLLER TO DISINTEGRATING CHEMICAL CONTROLLER. COORDINATE LOCATION WITH POOL SYSTEM INSTALLER PRIOR TO ROUGH-IN.
- CHEMICAL CONTROLLER. CONTROLLERS TO OPERATE REMOTE PUMPS FOR CHLORINE AND ACID TANKS VIA AUXILIARY CONTACTS. EC SHALL PROVIDE COMMUNICATION AND DATA CABLE FROM WATER CHEMISTRY CONTROL UNITS TO AUTOMATION SYSTEM, COORDINATE EXACT REQUIREMENTS WITH POOL SYSTEM INSTALLER.
- WATER LEVEL CONTROLLER. PROVIDE RECEPTACLE TO POWER CONTROLLER. COORDINATE EXACT REQUIREMENTS WITH POOL SYSTEM INSTALLER.
- REMOTE PUMP START/STOP PANEL LOCATION. PROVIDE PANEL MOUNTED FLUSH IN WALL WITH STAINLESS STEEL FACEPLATE. EC TO COORDINATE AND VERIFY WITH POOL EQUIPMENT INSTALLER FINAL LOCATION, PUSH BUTTON QUANTITY AND PUMP DESIGNATION FOR ENGRAVED LABEL. REFER TO DETAIL 3 ON SHEET EF-3.2.

**GENERAL NOTES**

- ALL CONDUITS IN FILTRATION TO BE PVC TYPE. METALLIC CONDUIT IS NOT ALLOWED.
- ALL RECEPTACLES TO BE GFI PROTECTED WITH WEATHER PROOF COVER WHILE IN USE TYPE.
- EC SHALL REFER TO POOL DRAWINGS FOR ADD ALTERNATE CONFIGURATIONS. EC SHALL PROVIDE ADD ALT PRICING FOR EACH ITEM LISTED AS AN ADD ALT IN POOL DRAWINGS.
- EC SHALL REFER TO POOL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- EC SHALL BOND AND GROUND POOL EQUIPMENT PER NEC 680.26.

This item has been electronically signed and sealed by Daniel A. Sutyak, PE. On 8/17/2016 using a Digital Signature.  
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Scale: AS SHOWN  
 Designed by: DAS  
 Drawn by: SW  
 Checked by: DAS  
 Date: DECEMBER 2017  
 Project No. 48285014

SHEET  
**EF-3.1**

**BUTLER PARK  
 AQUATIC CENTER  
 CITY OF NORTHPORT, FL**

**FILTRATION BUILDING  
 ENLARGED POWER PLAN**

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 FLORIDA REGISTERED ENGINEERING FIRM #96  
 FLORIDA REGISTERED LANDSCAPE ARCHITECTURE FIRM LC-C000219  
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