

## UPGRADES TO CHESTNUT ROAD PUMP STATION

DDC Engineers Inc.

From: Eric Sanford

Project No. 14947E



### ADDENDUM NO. 2 – December 7, 2015

This Addendum forms a part of the Bidding Documents and modifies the original Bidding Documents, dated November 2015, Bid Date December 10, 2015.

Acknowledge receipt of this Addendum in the space provided on the PROPOSAL. Failure to do so may subject Bidder to disqualification.

The following items clarify, modify, change, delete from or add to the Bidding Documents. When any paragraph, subparagraph, or sub-subparagraph, thereof is modified or deleted by this Addendum, the unaltered provisions of that paragraph, subparagraph, or sub-subparagraph shall remain in effect. When any portion of a drawing is modified or deleted, the unaltered provisions of that drawing shall remain in effect.

Questions:

1.0 Shows 4" drain holes in Building floor. What will stop sewer gas from entering building?

**Answer:** *Floor drain to be standard 4" PVC with "P" traps installed in wetwell.*

2.0 What voltage will fans and louvers be?

**Answer:** *Single phase, 115 volt, Dayton 18" fan 1/15 HP, Dayton 12" 1/25 HP shutter mount exhaust fan with variable speed or approved equal.*

3.0 Will tanks that require being moved be empty?

**Answer:** *The tanks will be empty.*

4.0 Will pump discharge plug valves require chain wheels?

**Answer:** *Yes, the four (4) pump plug valves in the pump station will require chainwheels actuators.*

5.0 Is new diversion wall in WW masonry? Concrete? Do you have a structural detail on this?

**Answer:** *Diversion wall to be concrete. Please see attachment on diversion wall detail.*

6.0 Air release valve piping shall be 304 stainless steel pipe instead of galvanized pipe.

***Answer: On Construction Drawing - Sheet 7, the pump air release valve piping detail. The air release valve pipe - Please change 304 to stainless steel pipe instead of galvanized pipe as shown on detail on Sheet 7.***

7.0 Under Section 0300 – Bid Proposal, please replace the Price Schedule Pages 0300-11 thru 0300-14 with the attached revised price schedule.

8.0 Please provide Measurement and Payment Specification. This will assure that no items are missed and that all cost are located in the correct Bid Item.

***Answer: Bids shall include sales tax and other applicable taxes and fees. Any work required as shown on the plans or called for in the specifications not specifically listed in the price schedules, should be included in the most closely relates work item listed.***

9.0 Please provide detailed Electrical Drawings showing specific details of switchgear, wiring requirements, conduit runs, etc.

***Answer: Please see attachment.***

10. Please provide names of acceptable Generator Manufacturers that can provide the services as outlined in Section 2.03 Emergency Generator, Paragraph C.

***Answer: Caterpillar, Kohler, etc. all brand named generator manufacturers have a third party that certifies the performance rating (name plates) of their generators.***

11. We realize that the Schedule for Completion has been changed, but has consideration been given to the 28 day curing of Concrete required prior to application of the Raven Coatings?

***Answer: Yes, wetwell invert will not be coated, but the diversion wall will be. The pumps and controls are a longer lead item than the wetwell.***

12. Certified pump curves as outlined in Section 02650 – Horizontal Self-Priming Centrifugal Pumps, under 1.01 Performance Criteria, Paragraph G. Certified Pump Performance Test is not a requirement of the project.

13. Domestic fittings are not a project requirement.

14. All electrical panels inside and outside the pump station are to be NEMA 4x.

15. All lighting inside the pump station to be vapor proof lighting.

END OF ADDENDUM #2

**PRICE SCHEDULE**

UPGRADES TO CHESTNUT ROAD PUMP STATION

**The unit quantities indicated in the construction documents are design estimates, and are not warranted to be accurate. It is the responsibility of the Contractor to verify all quantity take-offs, and to bid the work appropriately. Any discrepancy and resulting cost adjustments should be noted on the Bid Schedule.**

NOTE: The undersigned hereby proposes to furnish all labor, equipment and materials. Bids shall include sales tax and all other applicable taxes and fees. Bid prices shall also include all utility work proposed, demolition, bypass pumping, dewatering operations, sheeting, well pointing, pedestrian control, signage, barricades, traffic control, silt fencing, and erosion control for the following proposal. The contractor must ensure that residents, condo guest, etc. are not disturbed by the noise generated from bypass sewage pumping operations, and any noise reduction techniques must be included in the bid prices. If any noise complaints are received the contractor will be required to change noise reduction, and/or construction methods immediately. All materials that are removed during the construction of the project must be disposed of appropriately by the contractor at the contractor's expense, or unless listed as a salvaged by The City of Myrtle Beach and must be included in the prices below. All flanged bolts and nuts to be stainless steel. All DIP lines and fitting to be sewer coat or approved equal. Bids shall include sales tax and other applicable taxes and fees. Any work required as shown on the plans or called for in the specifications not specifically listed in the price schedules, should be included in the most closely relates work item listed.

Item	Description	Engr's Est.	Bid Qty	Unit	Unit Price	Amount
<b>Upgrades to Chestnut Road Pump Station</b>						
1.	Mobilization	1		LS	\$	\$
2.	Duplex Sewage Bypass Pumping System Complete, Pump, Force Main Connection, Piping, System Controls, etc. (quiet pumps)	1		LS	\$	\$
3.	Demolition of Existing Pump Station	1		LS	\$	\$
4.	Existing Wetwell and Drywell Rehab, Cleaning, Repairs, and Wetwell Lining System	1		LS	\$	\$
5.	Wetwell and Drywell Concrete Invert (Includes Concrete Diversion Walls, Concrete Invert, etc.)	1		LS	\$	\$
6.	Existing 48" Influent Line Concrete Slide to New Concrete Invert	1		LS	\$	\$
7.	Remove Existing Pump and Equipment, etc. to be Salvaged and Delivered to The City of Myrtle Beach	1		LS	\$	\$

Item	Description	Engr's Est.	Bid Qty	Unit	Unit Price	Amount
8.	Construction of New 8" Block Building Complete. Includes foundation, slab, block building, roof, insulation, etc.	1		LS	\$	\$
9.	Furnish and Install Four (4) Self Priming Pumps with Motors Complete	4		EA	\$	\$
10.	Furnish and Install 12" DIP Suction Pipes Complete with all Bends	4		EA	\$	\$
11.	Furnish and Install the DIP Discharge Pipe Complete (from Top of Pumps through Building Wall) (Chainwheel Actuators for Plug Valves)	1		LS	\$	\$
12.	Furnish and Install VFD Control Panel Complete	1		LS	\$	\$
13.	Furnish and Install Electrical Service Complete	1		LS	\$	\$
14.	Water Service Complete	1		LS	\$	\$
15.	Furnish and Install 300 KW Generator Set Complete (Includes all Wiring Controls, and Conduits)	1		LS	\$	\$
16.	Furnish and Install Auto Transfer Switch Control Panel Complete (Includes all Wiring and Conduits)	1		LS	\$	\$
17.	Cut-in 16" x 16" Tee with 2-16" MJ-Plug Valves Complete	1		LS	\$	\$
18.	16" Class 350 DIP (Sewer Coat)	30		LF	\$	\$
19.	16" PVC – C905 PVC DR-25	50		LF	\$	\$
20.	16" MJ – Plug Valve with Box	1		EA	\$	\$
21.	Remove and Relocate 16" MJ Plug Valve with Box	1		EA	\$	\$
22.	16" MJ 45° Bend Restrained	4		EA	\$	\$
23.	16" MJ 90° Bend Restrained	1		EA	\$	\$
24.	16" x 16" MJ Tee Restrained	1		EA	\$	\$
25.	20" x 16" MJ Reducer Restrained	1		EA	\$	\$
26.	16" Flanged 90° Bend	1		EA	\$	\$

Item	Description	Engr's Est.	Bid Qty	Unit	Unit Price	Amount
27.	16" MJ Long Sleeve Restrained	1		EA	\$	\$
28.	12" N-12 CPP Drainage Pipe	120		LF	\$	\$
29.	Turf Catch Basin Complete	8		EA	\$	\$
30.	Tie Into Existing Catch Basin	1		EA	\$	\$
31.	16" Magnetic Meter with Vault Complete (Includes 16" Dresser Coupling Controller all Wiring to Control Panel and Power Service to Meter)	1		LS	\$	\$
32.	Furnish and Install Building Electrical System, Lighting Panel, and Transformer	1		LS	\$	\$
33.	Furnish and Install Building Fix Hoist Beam System Includes Two (2) -1½ Ton Chain Hoist (36 KS1 Steel)	1		LS	\$	\$
34.	Furnish and Install Pump Station Back-up Float System	1		EA	\$	\$
35.	Furnish and Install a ¾" Schedule 80 PVC Airline and Air Bell System	1		EA	\$	\$
36.	Self-Priming Pump Air Release Valves and (1" Stainless Steel Piping)	4		EA	\$	\$
37.	18" Exhaust Fan with Thermostat Control – (Single Phase, 115 Volt)	1		EA	\$	\$
38.	12" Exhaust Fan with Thermostat Control – (Single Phase, 115 Volt)	1		EA	\$	\$
39.	4" Concrete Sidewalk	200		SQFT	\$	\$
40.	14 ft. x 6 ft. x 6" Concrete Pad for Generator Set	1		LS	\$	\$
41.	18 ft. x 8 ft. x 8" Concrete Pad Chemical Feed Tank	1		LS	\$	\$
42.	4" Concrete Pads	21		SQFT	\$	\$
43.	6" Concrete Pads	42		SQFT	\$	\$
44.	Existing Concrete Block Wall – Repair and Painting, Outside of Existing Pump Station Wall (Paint, Match Existing Color) (Just along the Front of Chestnut Road)	1		LS	\$	\$
45.	6" GABC Base Material	60		SYDS	\$	\$

Item	Description	Engr's Est.	Bid Qty	Unit	Unit Price	Amount
46.	2" SCDOT Type "B" Asphalt	70		SYDS	\$	\$
47.	2" SCDOT Type "B" Overlay	450		SYDS	\$	\$
48.	Overlay Tie-In Milling	1		LS	\$	\$
49.	Pavement Markings	1		LS	\$	\$
50.	SCDOT Pavement Repair	35		LF	\$	\$
51.	12" Emergency Pump Connect Complete (Included 16" x 12" Tee, 12" Plug Valve, Piping and Slab)	1		EA	\$	\$
52.	Connection into Existing 20' DIP Force Main	1		EA	\$	\$
53.	Replace Existing Landscaping	1		LS	\$	\$
54.	Abandon Existing 16" Gate Valves with Box	2		EA	\$	\$
<b>TOTAL:</b>						

Total Amount: \_\_\_\_\_ 00/100 Dollars  
In words

Respectfully submitted:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Address

\_\_\_\_\_  
Title

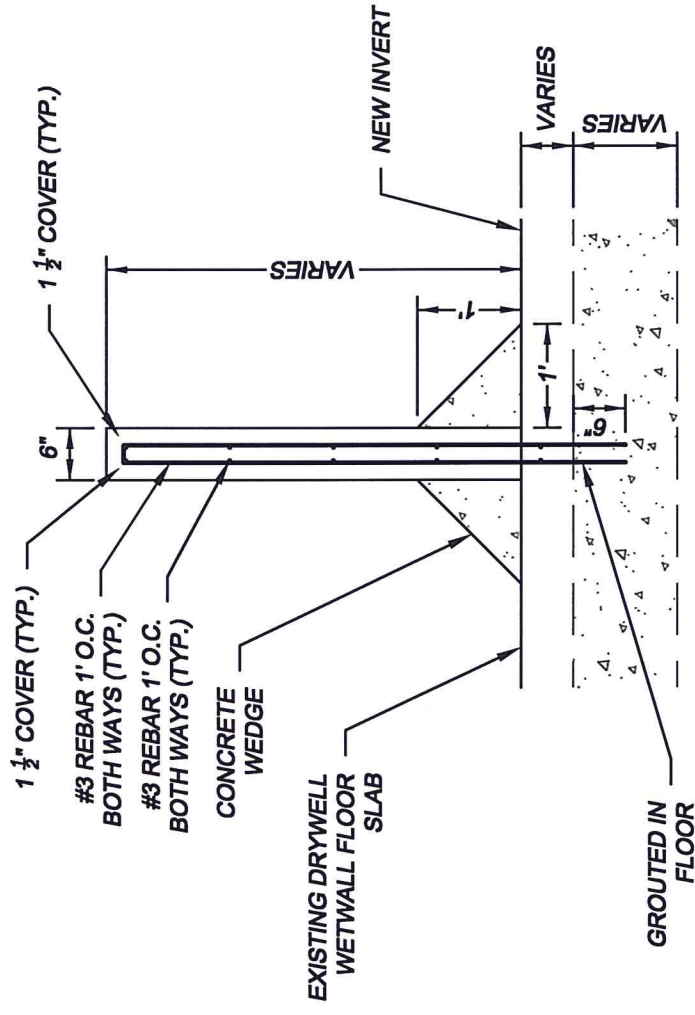
\_\_\_\_\_  
Date

\_\_\_\_\_  
License Number (if applicable)

SEAL (if BID is by a corporation)

Attest: \_\_\_\_\_

END OF SECTION



# DIVERSION WALL DETAIL

SCALE: N.T.S.

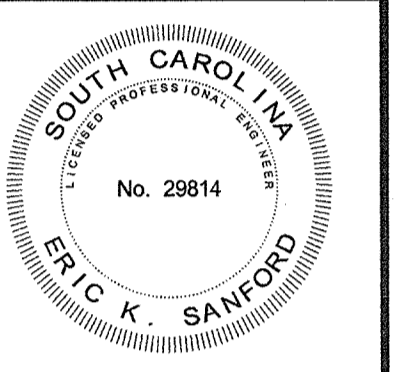
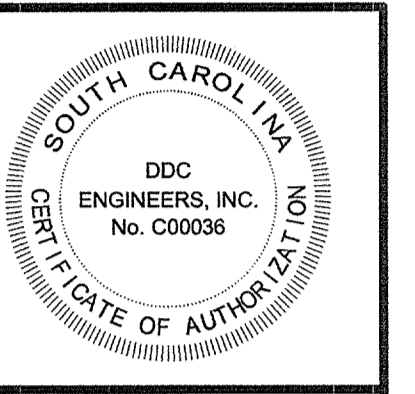
**ELECTRICAL MATERIALS & INSTALLATION:**

1. FINISH AND INSTALL ALL NECESSARY MATERIALS, TOOLS AND LABOR FOR A COMPLETE AND FULLY OPERABLE WIRING SYSTEM AS INDICATED OR REASONABLY IMPLIED. ALL OUTLETS SHALL BE FULLY CONNECTED TO SOURCES OF CURRENT SUPPLY AND LEFT READY FOR USE. UNLESS OTHERWISE INDICATED, ALL MATERIALS SHALL BE NEW, FREE OF DEFECTS AND BE UL LISTED AND LABELED FOR THEIR INTENDED PURPOSE AND SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE N.E.C., LOCAL CODES AND ORDINANCES AND THE REQUIREMENTS OF THE UTILITY COMPANY. LOCAL CODES SHALL GOVERN IN THE EVENT OF A CONFLICT.
3. CONTRACTOR SHALL APPLY FOR AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, LICENSES, ETC. REQUIRED IN CONNECTION WITH THIS WORK.
4. ALL CONDUCTORS SHALL BE 75 DEGREE COPPER (THWN-THHN) INSTALLED IN METAL CONDUITS, RIGID OR EMT WITH COMPRESSION FITTINGS.
5. PANEL HOMERUNS SHALL BE THREE (3) CIRCUITS WHEREVER POSSIBLE.
6. CONDUIT RUN UNDER FLOOR SLAB MAY BE SCHEDULE 40 PVC WITH RIGID METALLIC 90'S WHEN TURNED UP THROUGH SLAB.
7. UNLESS OTHERWISE INDICATED, ALL CONDUIT AND CONDUCTORS SHALL BE INSTALLED CONCEALED AND OUTLETS SHALL BE FLUSH MOUNTED IN WALLS OR CEILINGS. OUTLET BOXES SHALL BE SIZED AND INSTALLED PER THE N.E.C.
8. LUMINARIES SHALL BE COMPLETE WITH LAMPS, BALLASTS AND ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES.
9. PROVIDE A COPPER EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUIT AND FEEDER CONDUITS, SIZED PER N.E.C. TABLE 250.122. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, GROUNDING TYPE RECEPTACLES, ETC., IN ACCORDANCE WITH N.E.C. ARTICLE 250.
10. CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONNECTIONS TO MECHANICAL EQUIPMENT.
11. CONTRACTOR SHALL WARRANTY ALL NEW EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRST BENEFICIAL USE BY THE OWNER, WHICHEVER COMES FIRST.
12. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE AND COORDINATE THE EXACT SCOPE OF WORK. NO CREDIT WILL BE GIVEN FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENTS.
13. CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST CLARIFICATION OF ITEMS IN QUESTION ON THE ELECTRICAL DRAWINGS ASSOCIATED WITH THIS PROJECT PRIOR TO BID. NO CREDIT WILL BE GIVEN FOR ITEMS THAT ARE LOGICALLY REQUIRED, BUT NOT DETAILED.
14. DO NOT DIMENSION FROM THESE DRAWINGS. SEE ENGINEER FOR EXACT LOCATIONS OF DEVICES AND LUMINARIES. DETAILS ON THESE DRAWINGS ARE FOR WIRING INFORMATION ONLY.
15. PANEL AND DISCONNECT SWITCH LOCATIONS ARE DIAGRAMMATIC AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3" MAXIMUM, TO TOP OF CABINET. MAINTAIN N.E.C. WORK SPACE REQUIREMENTS FROM WALLS, CEILINGS AND OTHER ELECTRICAL AND NON-ELECTRICAL EQUIPMENT APPURTENANCES, ETC.
16. COORDINATE LUMINARIES LOCATIONS WITH MECHANICAL PIPING, ETC. TO AVOID CONFLICTS.

**DDC**



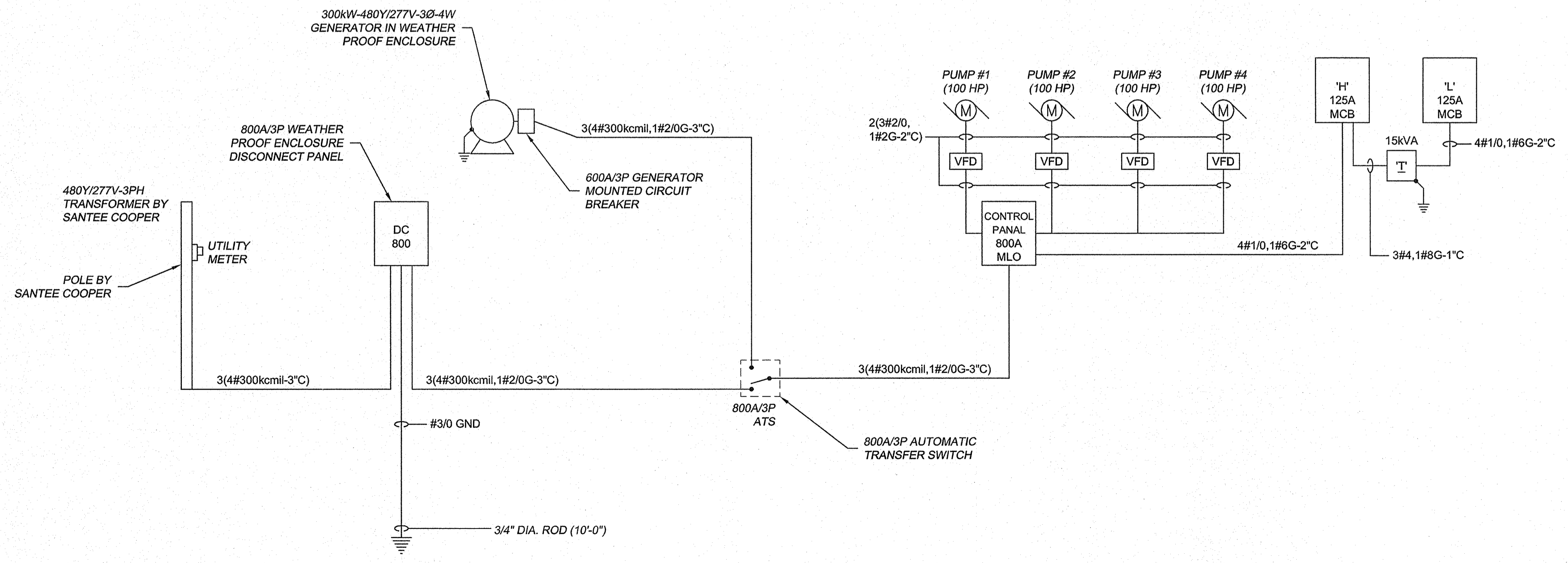
**ENGINEERS**  
 Consulting Engineers, Surveyors, Planners,  
 Landscape Architects & Environmentalists  
 1298 Professional Dr., Myrtle Beach, SC 29577  
 Phone: (843) 692-3200 Fax: (843) 692-3210



NO.	DATE	REVISION DESCRIPTION	BY

**ELECTRIC PLAN**  
**CHESTNUT ROAD PUMP STATION**  
 Horry County, South Carolina  
 PREPARED FOR: CITY OF MYRTLE BEACH

SCALE:	NONE
DATE:	11/06/15
DESIGNED BY:	EKS
DRAWN BY:	PES / KJG
APPROV. BY:	EKS
PROJECT NO.:	14947E
FILE NO.:	



**ELECTRICAL RISER DIAGRAM**  
 SCALE: NONE

PLOT SCALE: 1"=1' PDF FILE: NEWDDC07B