

Questions and Answers

1. **On the fiber does the contractor pull the fiber and terminate?** We will have work with KAMO on the fiber.
2. **Does the contractor have to terminate the fiber?** Yes.
3. **Who is furnishing the fiber?** Per the contract, the contractor will furnish the fiber.
4. **On the temporary breaker, is the contractor responsible for the termination?** Yes, but GRDA relay will be there for assistance.
5. **How many foundations total are on the project?** See foundation drawings
6. **What kind of soil is there?** See geotech report
7. **Is the slab monolithic?** See reference drawings
8. **Are we saying that the contractor has to have men on site for 365?** This is a fluid schedule. The dates are target dates.
9. **Is it the contractor's responsibility to move the transformers?** Yes
10. **Lattice Bridge over the existing transformer, can that be taken out once the transformers dead?** Yes
11. **How far is the distance from Transmission Warehouse to Afton Substation?** Approximately 45 miles.
12. **What is the size of the cable on the table tab?** Any cable that is listed without a size should not be included. It is a place holder for future.
13. **What is the farm fencing?** Posts are steel
14. **Is there going to be any razor wire?** No
15. **Do we have footage on the ground?** Contractor to make own takeoff
16. **On fence grounding drawings PG 20 says 30' and PG 30 says 50'?** It is 50'
17. **On the Bus is it going to be welded offsets?** Yes
18. **Are the foundation drill shafts going to be square or round?** Not opposed to either or as long as all are the same.
19. **What does the contractor do with the spoil dirt?** Contractor's responsibility to find a place for the spoil dirt.
20. **Communication tower area? Is there any direct bury cable?** This is an unknown. GRDA does not think that there is any direct bury at the site, but contractor should do his own investigation prior to digging.
21. **Is GRDA opposed to using an EVAC truck?** No
22. **Will KAMO come out and locate their fiber?** Yes
23. **Is this at the plant or a station out in the field?** It is a station out in the field.
24. **Is the trenway going to be drivable?** See drawings for load requirements
25. **Does the fill dirt have to be approved by GRDA before it is put down?** Fill dirt has to be approved before it is put down.

26. What material is furnished by GRDA? Material furnished by GRDA is listed on drawing 1-4 and another list in the specs.
27. Is the new transformer sitting in yard or waiting for delivery? Sitting in the yard
28. Is the weight of the transformer in the specs? Yes
29. Is all the Lattice Steel going to be taken back to the GRDA steel scrap yard? All material will be taken back to GRDA.
30. With the exception of the transformer, does GRDA have a method of loading and unloading material? Yes
31. Is there a limit on the days and hours the contractor can work? No
32. Do we have a physical address for this? This will be forwarded when available.
33. Does the project manager of the contractor have to be on site at all times? There needs to be someone who has the authority to make things happen.
34. Are we required to use prevailing wages for this project? We do not require anything on prevailing wage.
35. Page 53, Paragraph 2.6 “The attached material list is the complete list of material to be furnished by GRDA”. We have Bill of materials drawing S249DE01 thru S249DE04 which has Owner Furnished Material and Contractor Material in it. Many items are defined in the spec. the items in questions are BOM item number 88 through 106. Are these owner furnished and contractor installed, Please advise. Any item on the BOM that lists the contractor to furnish is not provided by GRDA.
36. Are instrument transformer Junction Boxes included in the raceway and contractor furnished and installed? All raceway, including j-boxes are to be furnished by the contractor.
37. Page 117, Paragraph 4.1.1 mention Attached G. We aren’t able to locate it. Attachment G is the Construction Schedule. I have attached again for your convenience.

PHASE 1 CONSTRUCTION SCHEDULE

1. BEGIN CONSTRUCTION – AUGUST 01, 2012
2. SITE PREPARATION, REMOVE AND REPLACE FENCE, INSTALL NEW FIBER OPTIC, REMOVE EXISTING FIBER OPTIC (CABLE, VAULTS, AND CONDUITS), INSTALL PERIMETER GROUNDING, FENCE GROUNDING, INSTALL TRANSFORMER #1, #2, #3, & #4 FOUNDATIONS, INSTALL TRANSFORMER OIL CONTAINMENT, 15KV RISER FOUNDATIONS, MODIFICATIONS TO CONTROL HOUSE (AS PRACTICAL), BREAKER 6340 TEMPORARY FOUNDATION, CONDUIT FOR TEMPORARY BREAKER 6340 POSITION, 161KV BREAKER FOUNDATIONS , TRANSFORMER #2, ALL PIERS THAT CAN SAFELY BE INSTALLED (DUE TO OVERHEAD ENERGIZED LINES) NEAR TRANSFORMER #1 AND TRANSFORMER #2 POSITIONS,CABLE TRENCH FOR 161KV SECTION OF SUBSTATION, CONDUIT FROM 161KV BREAKER FOUNDATIONS TO CABLE TRENCH, UNDERGROUND GROUNDING FOR 161KV SECTION OF SUBSTATION, AND ANY OTHER WORK THAT CAN BE SAFELY PERFORMED IN SUBSTATION BEFORE RE-LOCATION OF OVERHEAD TRANSMISSION LINES.
3. THIS WORK TO BE COMPLETED BY OCTOBER 01, 2012.

NOTES:

1. REFER TO DRAWING S294PG50 FOR TRENCH LAYOUT.
2. REFER TO DRAWING S294PG20 FOR GROUNDING PLAN.
3. REFER TO DRAWING S294PG30 FOR 161KV FOUNDATION PLAN
4. REFER TO DRAWING S294PH02 FOR NEW LAYOUT OF CONTROL HOUSE PLAN
5. TRANSFORMER #2 TO BE DELIVERED TO SITE AND PLACED ON FOUNDATION BY CONTRACTOR.

REFERENCE DRAWINGS:

S294PE30	FENCE AND GROUNDING DETAILS
S294PE50	AFTON SUBSTATION BEFORE CONSTRUCTION
S294PE52	AFTON SUBSTATION PHASE II
S294PE53	AFTON SUBSTATION PHASE III
S294PE54	AFTON SUBSTATION PHASE IV
S294PE55	AFTON SUBSTATION PHASE V
S294PG20	GROUNDING PLAN
S294PG30	161KV FOUNDATION PLAN
S294PG34	TYPICAL FOUNDATION DETAILS
S294PG50	TRENCH LAYOUT PLAN
S294PZ01	OIL CONTAINMENT PLAN

PHASE II CONSTRUCTION SCHEDULE

1. OCTOBER 03, 2012 TO OCTOBER 10, 2012.
2. CHECK PHASING AND INSTALL TEMPORARY JUMPERS TO ENERGIZED 69 kV LINES (FEEDER 63 AND FEEDER 62) AT A POINT WHERE THEY CROSS, APPROXIMATELY 3 MILES EAST OF AFTON SUBSTATION. NEARBY CROSSING STRUCTURES ARE: FEEDER 63 – STRUCTURE 3-8 AND FEEDER 62 – STRUCTURE 60-3.
3. INSTALL 3 (1 PER PHASE) AMPACT LINE SWITCHES ON ENERGIZED 69 kV LINE – FEEDER 63 – WEST OF STRUCTURE 3-8.
4. OPEN BREAKER 6240.
5. OPEN NEWLY INSTALLED LINE SWITCHES, THUS DE-ENERGIZING SECTION OF FEEDER 63 FROM OPEN SWITCHES TO AFTON SUBSTATION. FEEDER 63 NOW BEING ENERGIZED FROM FEEDER 62.
6. INSTALL NEW TEMPORARY LINE FOR FEEDER 63 FROM LOCATION EAST OF EXISTING SOUTH DEAD-END BAY TO NEW VERTICAL DEAD-END STRUCTURE 1-1.
7. INSTALL TEMPORARY BREAKER 6340 AND SWITCHES ON EAST SIDE OF EXISTING SOUTH 69kV BAY FOR BREAKER 6340.
8. REMOVE SECTION OF FEEDER 63 FROM NEWLY INSTALLED STRUCTURE 1-1 TO PRESENT POSITION ON EAST END OF NORTH SIDE OF EXISTING 69kV DEAD-END.
9. CLOSE NEWLY INSTALLED LINE SWITCHES. CHECK PHASING AND INSTALL JUMPERS TO ENERGIZED 69kV BUS TO TEMPORARY FEEDER 63. CLOSE TEMPORARY BREAKER SWITCHES AND BREAKER 6340.
10. OPEN BREAKER 6140 AND OLD BREAKER 6240.
11. REMOVE ENERGIZED JUMPERS AT STRUCTURE 65-3 ON FEEDER 62. FEEDER 62 NOW BEING ENERGIZED FROM NEW LOCATION OF FEEDER 63 AT AFTON SUBSTATION.
12. INSTALL PERMANENT GUYED 3-POLE STRUCTURE (DESIGNATE 1-A) AND ANCHORS. THIS SECTION OF FEEDER 62 HAS 795 ACSR CONDUCTORS.
13. TRANSFER FEEDER 62 TO NEWLY INSTALLED STRUCTURE 1-A.
14. REMOVE SECTION OF FEEDER 62 FROM NORTH-EAST SIDE OF EXISTING 69kV SUBSTATION DEAD-END.
15. THIS WORK TO BE COMPLETED BY OCTOBER 10, 2012.

NOTES:

1. CONDUCTORS ON FEEDER 63 - STR. 3-8 AND FEEDER 62 – STR. 60-3 ARE 4/0 ACSR.
2. CONDUCTORS ON FEEDER 62 - STR. 65-3 ARE 4/0 ACSR.
3. CONDUCTORS ON FEEDER 62 FROM EXISTING SUBSTATION DEAD-END TO STRUCTURE 1-1 ARE 795 ACSR.
4. USE ONLY QUALIFIED JOURNEYMAN LINEMAN EXPERIENCED IN WORKING ENERGIZED 69kV TRANSMISSION LINES TO PERFORM ALL TRANSMISSION LINE WORK.
5. GRDA TO PROVIDE POLES, ANCHORS, LINE HARDWARE, SWITCHES, CONDUCTOR AND SLEEVES FOR TEMPORARY LINE WORK.
6. THE HEIGHT OF THE TEMPORARY STRUCTURES IS UNKNOWN AT THIS TIME. IT IS ANTICIPATED STRUCTURE 1-A WILL BE (3) 70' CLASS 1 POLES AND STRUCTURE 1-1 WILL BE (1) 90' CLASS H1 POLE.

PHASE II CONSTRUCTION SCHEDULE

REFERENCE DRAWINGS:

S294PE30 FENCE AND GROUNDING DETAILS
S294PE50 AFTON SUBSTATION BEFORE CONSTRUCTION
S294PE51 AFTON SUBSTATION PHASE I
S294PE53 AFTON SUBSTATION PHASE III
S294PE54 AFTON SUBSTATION PHASE IV
S294PE55 AFTON SUBSTATION PHASE V

PHASE III CONSTRUCTION SCHEDULE

1. CONSTRUCT TEMPORARY 69kV TRANSMISSION LINE ACROSS SUBSTATION TO SLIGHTLY EAST OF TRANSFORMER #1 AND CONTROL BUILDING. THIS WORK TO BE PERFORMED OVER AN ENERGIZED 161/69kV TRANSFORMER AND BUS TO TEMPORARY VERTICAL POLE DEAD-END STRUCTURES LOCATED TO SOUTH AND NORTH OF NEW SUBSTATION FENCE. TEMPORARY ANCHORS MUST BE INSTALLED FOR CONDUCTOR TERMINATIONS.
2. CLEARANCE ON FEEDER 5 – OCTOBER 15 & 16, 2012 TO ALLOW TRANSFER OF FEEDER 5 TO TEMPORARY STRUCTURE SOUTH OF SUBSTATION.
3. CLEARANCE ON FEEDER 61 – OCTOBER 16, 2012 TO ALLOW TRANSFER OF FEEDER 61 TO TEMPORARY STRUCTURE NORTH OF SUBSTATION.
4. REMOVE TEMPORARY ANCHORS, ATTACH GUYS TO BISSECTOR ANCHORS, AND INSTALL JUMPERS AT STRUCTURES SOUTH AND NORTH OF SUBSTATION, TYING FEEDER 5 TO FEEDER 61.
5. INSTALL NEW RELAY SETTINGS FOR FEEDER 5/61.
6. RE-ENERGIZE FEEDER 5/61 FROM PENSACOLA TO MIAMI FREEHAUF (BY-PASSING AFTON SUBSTATION) BY END OF DAY – OCTOBER 16, 2012.
7. BEGIN CONSTRUCTION OF NEW 69kV SECTION OF SUBSTATION – OCTOBER 17, 2012.
8. INSTALL NEW FIBER OPTIC (AS NOTED), OTHER MODIFICATIONS TO CONTROL HOUSE , CONSTRUCT 69kV SECTION OF SUBSTATION INCLUDING , BUT NOT LIMITED TO , 69kV SECTION OF CABLE TRENCH, GROUNDING, FOUNDATIONS, BREAKER INSTALLATION, BUS, SWITCHES, CONTROL CABLE, OTHER MODIFICATIONS TO CONTROL BUILDING, RELAY PANEL CHANGE-OUT, AND 69kV CONNECTIONS TO TRANSFORMER #2.
9. THIS WORK TO BE COMPLETED BY JANUARY 11, 2013.

NOTES:

1. REFER TO NOTES ON THIS DRAWING FOR FIBER OPTIC INSTALLATION.
2. GRDA TO FURNISH TEMPORARY POLES, LINE HARDWARE, ANCHORS, CONDUCTOR AND SHIELD WIRE FOR TEMPORARY LINE RE-ROUTE OF FEEDER 5 & 61.
3. ALL LINE OUTAGES MUST BE KEPT TO A MINIMUM. A HOLD-ORDER WILL BE PLACED ON 69kV SECTION OF BUS NEAR TRANSFORMER #1 WHEN STRINGING OVER ENERGIZED BUS.
4. USE ONLY QUALIFIED JOURNEYMAN LINEMAN EXPERIENCED IN WORKING OVER ENERGIZED CIRCUITS WHEN PERFORMING WORK ON TRANSMISSION LINES.

REFERENCE DRAWINGS:

S294PE02	69kV EQUIPMENT PLAN VIEW
S294PE50	AFTON SUBSTATION BEFORE CONSTRUCTION
S294PE51	AFTON SUBSTATION PHASE I
S294PE52	AFTON SUBSTATION PHASE II
S294PE54	AFTON SUBSTATION PHASE IV
S294PE55	AFTON SUBSTATION PHASE V
S294PG20	GROUNDING PLAN
S294PG31	69kV FOUNDATION PLAN
S294PG33	TYPICAL FOUNDATION DETAILS
S294PG34	TYPICAL FOUNDATION DETAILS
S294PG50	TRENCH LAYOUT PLAN

PHASE IV CONSTRUCTION SCHEDULE

1. CONSTRUCT TEMPORARY 161kV TRANSMISSION LINE TO RE-ROUTE FEEDER 22 FROM SOUTH OF NEW SUBSTATION FENCE TO WEST SIDE OF FENCE, THEN NORTHWARD ALONG FENCE TO NORTHWEST OF FENCE, THEN EASTWARD TO TEMPORARY 3-POLE STRUCTURE LOCATED EAST OF SECTION OF FEEDER 22 TO MIAMI FREEHAUF. TEMPORARY ANCHORS MUST BE INSTALLED FOR CONDUCTOR TERMINATIONS. THIS SECTION OF LINE WILL BE INSTALLED UNDER EXISTING FEEDER 22 AND EAST OF PSO 138kV TRANSMISSION LINE.
2. CLEARANCE ON FEEDER 22 AND EXISTING 161kV TRANSFORMER (TRANSFORMER #1) BEGINNING JANUARY 28, 2013 TO FEBRUARY 01, 2013.
3. INSTALL TEMPORARY 3-POLE STRUCTURE AND ANCHORS TO NORTH OF EXISTING SOUTH SUBSTATION DEAD-END STRUCTURE.
4. TRANSFER SECTION OF OVERHEAD CONDUCTOR ACROSS 161kV SECTION OF SUBSTATION TO TEMPORARY 3-POLE STRUCTURE.
5. CONNECT TEMPORARY JUMPERS TO CIRCUIT SWITCHER #71.
6. REMOVE REMAINDER OF OVERHEAD CONDUCTOR AND SHIELD WIRE TO EXISTING NORTH SUBSTATION DEAD-END STRUCTURE.
7. INSTALL TEMPORARY 3-POLE STRUCTURE AND ANCHORS TO NORTH OF SUBSTATION FENCE.
8. TRANSFER EXISTING NORTH SECTION OF FEEDER 22 AND FIBER OPTIC TO TEMPORARY 3-POLE STRUCTURE.
9. INSTALL JUMPERS TO TEMPORARY 3-POLE STRUCTURES NORTH AND SOUTH OF FENCE.
10. CHECK PHASING AND ENERGIZE FEEDER 22 AND 161kV TRANSFORMER #1 BY END OF DAY, FEBRUARY 01, 2013.
11. BEGINNING ON FEBRUARY 01, 2013, CONSTRUCT NORTH SECTION OF 161kV SUBSTATION FROM SWITCH 133 AND SWITCH 129. CONSTRUCTION INCLUDES, BUT NOT LIMITED TO, INSTALLING THREE 161kV BREAKERS, SWITCHES, STEEL DEAD-ENDS, BUS SUPPORTS, BUS, CONDUIT, GROUNDING, MODIFICATIONS TO CONTROL HOUSE, RELAY PANELS, TRANSFORMER PANEL, CONNECTIONS TO TRANSFORMER #2, TERMINATIONS FROM RISER POLE OF 161kV TRANSFORMER #2 TO STATION SERVICE TRANSFORMER #4, INSTALL TWO 3-POLE STRUCTURES AND TEMPORARY ANCHORS TO SOUTH OF SWITCH 133 AND SWITCH 129, INSTALL CONDUCTORS, ISOLATION INSULATORS, AND SHIELD WIRE TO TEMPORARY 3-POLE STRUCTURES, INSTALL JUMPERS FROM OVERHEAD CONDUCTOR TO EAST SIDE OF 161kV BUS AND INSTALL SECTION OF FEEDER 62 FROM TEMPORARY DEAD-END STRUCTURE TO PERMANENT LOCATION ON NEW 69kV DEAD-END STEEL.
12. THIS WORK TO BE COMPLETED BY MAY 01, 2013.
13. CLEARANCE OF FEEDER 22 – MAY 02, 2013.
14. REMOVE JUMPERS FROM TEMPORARY 161kV LINE TO FEEDER 22 NEAR 3-POLE LOCATED NORTH OF NEW SUBSTATION DEAD-END. INSTALL NEW SECTION OF CONDUCTOR AND SPLICE IN TO EXISTING FEEDER 22. TRANSFER CONDUCTOR AND SHIELD WIRE TO NEW LOCATION ON NORTHEAST SUBSTATION STEEL DEAD-END. RE-INSTALL JUMPERS FROM TEMPORARY LINE TO NEW LOCATION OF FEEDER 22. ENERGIZE FEEDER 22.
15. ENERGIZE AND PERFORM CHECK-OUT ON TRANSFORMER #2 – MAY 03, 2013 TO MAY 10, 2013.
16. CLEARANCE ON FEEDER 5/61 – MAY 13, 2013 AND MAY 14, 2013.
17. INSTALL ADDITIONAL CONDUCTOR AND SHIELD WIRE, TRANSFER FEEDER 5 TO PERMANENT LOCATION ON SOUTH 69kV SUBSTATION DEAD-END, TRANSFER FEEDER 61 TO PERMANENT LOCATION ON NORTH 69kV SUBSTATION STEEL, REMOVE TEMPORARY 69kV TRANSMISSION LINE, AND ENERGIZE FEEDER 5 AND FEEDER 61 FROM WEST SIDE OF NEW 69kV BUS.
18. INSTALL SECTION OF NEW CONDUCTOR, AND TRANSFER FEEDER 62 TO PERMANENT LOCATION ON NEW 69kV SUBSTATION STEEL DEAD-END. ENERGIZE FEEDER 62 ON NORTH SECTION OF NEW 69kV BUS.

PHASE IV CONSTRUCTION SCHEDULE

19. RE-INSTALL JUMPERS TO ENERGIZED 69kV FEEDER 62 AT STRUCTURE 65-3. OPEN LINE-SWITCHES PREVIOUSLY INSTALLED ON FEEDER 63 WEST OF STRUCTURE 3-8.
20. OPEN TEMPORARY BREAKER 6340. TRANSFER FEEDER 63 TO PERMANENT LOCATION ON NORTHEAST 69kV SUBSTATION STEEL DEAD-END.
21. CLOSE LINE-SWITCHES NEAR STRUCTURE 3-8 ON FEEDER 63 AND ENERGIZE FEEDER 63 NOW LOCATED AT PERMANENT POSITION ON NORTH 69kV BUS.
22. CHECK OPEN SWITCH 6054 AND INSTALL SECTION OF FEEDER 60 TO PERMANENT LOCATION ON SOUTH SIDE OF NEW 69kV BUS. ENERGIZE FEEDER 60 FROM NEW 69kV BUS.

NOTES:

1. REFER TO NOTES ON THIS DRAWING FOR FIBER OPTIC INSTALLATION.
2. GRDA TO FURNISH POLES, LINE HARDWARE, ANCHORS, CONDUCTOR AND SHIELD WIRE FOR TEMPORARY AND PERMANENT TRANSMISSION LINE CONSTRUCTION.
3. ALL LINE OUTAGES MUST BE KEPT TO A MINIMUM. A HOLD-ORDER WILL BE PLACED ON ENERGIZED LINES OR BUS WHEN PERFORMING WORK NEAR ENERGIZED CIRCUITS.
4. USE ONLY QUALIFIED JOURNEYMAN LINEMAN EXPERIENCED IN WORKING ON OR NEAR ENERGIZED CIRCUITS WHEN PERFORMING WORK ON TRANSMISSION LINES.

REFERENCE DRAWINGS:

S294PE01 161kV EQUIPMENT PLAN VIEW
S294PE50 AFTON SUBSTATION BEFORE CONSTRUCTION
S294PE51 AFTON SUBSTATION PHASE I
S294PE52 AFTON SUBSTATION PHASE II
S294PE53 AFTON SUBSTATION PHASE III
S294PE55 AFTON SUBSTATION PHASE V
S294PG20 GROUNDING PLAN
S294PG30 69kV FOUNDATION PLAN
S294PG33 TYPICAL FOUNDATION DETAILS
S294PG34 TYPICAL FOUNDATION DETAILS
S294PG50 TRENCH LAYOUT PLAN

PHASE V CONSTRUCTION SCHEDULE

1. CLEARANCE ON FEEDER 22 AND EXISTING 161kV TRANSFORMER (TRANSFORMER #1) ON MAY 21, 2013 TO REMOVE SECTION OF LINE FROM TEMPORARY 3-POLE STRUCTURE SOUTH OF EXISTING STEEL LATTICE DEAD-END TO TEMPORARY 3-POLE STRUCTURE IN 161kV SUBSTATION. LINE TO BE RE-ENERGIZED AT END OF DAY
2. REMOVE EXISTING LATTICE TOWER, CIRCUIT SWITCHER #71, 161kV PT'S, CCVT'S, AND PRE-EXISTING 69kV STEEL, BREAKERS AND EQUIPMENT.
3. MOVE TRANSFORMER #1 TO NEW LOCATION.
4. CONSTRUCT SECTION OF 161kV SUBSTATION SOUTH OF SWITCH 133 AND SWITCH 129.
5. INSTALL POWER CABLE FROM RISER POLE FOR TRANSFORMER #1 TO STATION SERVICE TRANSFORMER #3.
6. COMPLETE INSTALLATION OF FINAL RELAY AND TRANSFORMER PANELS AND COMMUNICATION RACKS. COMPLETE FINAL MODIFICATION TO CONTROL BUILDING.
7. THIS WORK TO BE COMPLETED BY JUNE 25, 2013.
8. CLEARANCE ON FEEDER 22 AND TRANSFORMER #2 – JUNE 27, 2013.
9. REMOVE JUMPERS FROM TEMPORARY 161kV TRANSMISSION LINE ON NORTH AND SOUTH END OF SUBSTATION. SPLICE IN SECTION OF CONDUCTOR AND SHIELD WIRE AND TRANSFER FEEDER 126 (FORMERLY FEEDER 22) TO NEW LOCATION ON SOUTH-WEST STEEL SUBSTATION DEAD-END. INSTALL JUMPERS, CHECK PHASING, AND RE-ENERGIZE FEEDER 126, FEEDER 22, TRANSFORMER #1 AND TRANSFORMER #2.
10. SUBSTATION NOW FULLY ENERGIZED – JUNE 27, 2013.
11. REMOVE TEMPORARY 161kV TRANSMISSION LINE AND ANCHORS, RESTORE DISTURBED AREA AROUND SUBSTATION, REMOVE EXISTING FOUNDATIONS, RETURN EXCESS AND SURPLUS MATERIAL TO WAREHOUSE, INSTALL FINAL LAYER OF ROCK, AND COMPLETE ALL WORK RELATED TO PROJECT BY JULY 31, 2013.

NOTES:

1. REFER TO NOTES ON THIS DRAWING FOR FIBER OPTIC INSTALLATION.
2. GRDA TO FURNISH POLES, LINE HARDWARE, ANCHORS, CONDUCTOR AND SHIELD WIRE FOR TEMPORARY AND PERMANENT TRANSMISSION LINE CONSTRUCTION.
3. ALL LINE OUTAGES MUST BE KEPT TO A MINIMUM. A HOLD-ORDER WILL BE PLACED ON ENERGIZED LINES OR BUS WHEN PERFORMING WORK NEAR ENERGIZED CIRCUITS.
4. USE ONLY QUALIFIED JOURNEYMAN LINEMAN EXPERIENCED IN WORKING ON OR NEAR ENERGIZED CIRCUITS WHEN PERFORMING WORK ON TRANSMISSION LINES.

REFERENCE DRAWINGS:

S294PE01	161kV EQUIPMENT PLAN VIEW
S294PE50	AFTON SUBSTATION BEFORE CONSTRUCTION
S294PE51	AFTON SUBSTATION PHASE 1
S294PE52	AFTON SUBSTATION PHASE II
S294PE53	AFTON SUBSTATION PHASE III
S294PE54	AFTON SUBSTATION PHASE IV
S294PG20	GROUNDING PLAN
S294PG30	161kV FOUNDATION PLAN
S294PG33	TYPICAL FOUNDATION DETAILS
S294PG34	TYPICAL FOUNDATION DETAILS
S294PG50	TRENCH LAYOUT PLAN