



Fulton County, GA

# Department of Purchasing & Contract Compliance

**November 19, 2012**

**Re: 12ITB81746K-REV-JAJ  
Construction Services for the Department of Water Resources**

Dear Bidders:

Attached is one (1) copy of Addendum 3, hereby made a part of the above referenced Invitation to Bid.

Except as provided herein, all terms and conditions in the Invitation to Bid referenced above remain unchanged and in full force and effect.

Sincerely,

*James A. Jones*

**James A. Jones  
Assistant Purchasing Agent**

Winner 2000 - 2009 Achievement of Excellence in  
Procurement Award • National Purchasing Institute



**12ITB81746K-REV-JAJ**  
**Construction Services for the**  
**Department of Water Resources**  
**Addendum No. 3**  
**Page Two**

This Addendum forms a part of the contract documents and **modifies** the original ITB documents as noted below:

**Volume I - Bidding Information**

1. There is no Form H. Form G is the Georgia Security and Immigration Contractor Affidavit and Agreement. Form F is the Georgia Security and Immigration Subcontractor Affidavit.

**Volume II – Project Specifications**

1. In Section 016000- Product Requirements, Page 016000-4: Add the following as section 2.1.B.6 “For products specified only by a referenced standard, the Contractor may select any product by any manufacturer which meets the requirements of the Specifications, subject to approval by the Architect or Engineer and in accordance with Section 013300”.
2. Refer to Section 012500 of Volume II for material substitution procedures.

**Volume III – Project Specifications**

1. Part 2 – Maxwell Road Improvements: Reissued Sheet CP – 02 dated 10-17-12 See Attachment 1.

**Volume IV – Supplemental Bid Documents**

1. Fueling Station Addition: Reissued Drawing Set “Issued for Permit” dated 08-08-12. See Attachment 2.

**Miscellaneous**

See Attachment 3.

## Questions and Responses

1. **Question:** Reference Drawing Detail 5/ M401 Underground Fuel Tanks – What is the minimum cover required over the top of the fuel tanks? Note 2 says to refer to the pipe containment sump cover requirements, but minimum cover requirements are defined.

**Answer:** The minimum cover from the top of the tanks to the top of the pavement is 3'-0".
2. **Question:** Pre-engineered buildings always include dead weight of the building and roofing. Do we use 10 PSF collateral load or 5 PSF collateral load?

**Answer:** Refer to note A.6.a on sheet S-001
3. **Question:** Warehouse 2- Can we add additional columns or longer bays as required?

**Answer:** Bids should be based on the design as shown and indicated. Alternate structural design/layout may be considered after bid award in accordance with the contract documents.
4. **Question:** Specifications 15990 1.01E refers to phases. How many phases will there be for the project? If more than one' please provide a breakdown of what buildings are included in which phase?

**Answer:** There are two phases in this project. Refer to Drawing C- 005 for general phasing notes.
5. **Question:** On drawings M-114 detail 2; the detail indicates that all HVAC work in the greenhouse building will be done by the manufacturer of the buildings. Are there any test and balance requirements for these buildings? If so, will MEP design documents be provided?

**Answer:** The greenhouse buildings have been deleted from the scope of work. Refer to Section 00300 of Volume I and Sheet C-100, Exhibit B Volume IV.
6. **Question:** My company is interested in quoting brick and stone for the project. As written specifications call for a modular size face brick conforming to ASTM C216, SW. There are no approved manufacturers, colors. Texture, etc. I checked in Division I of the specs....there is not an allowance so I really don't know what to quote for brick. Usually an allowance of \$400.00 per thousand brick would work or select a basis of design and approve other manufacturers of equal products. Also, I'd like to get an alternate local manufacturer approved fro the cast stone. How should I proceed?

**Answer:** Refer to section 090150, Item 2.2.B.2 of Volume II for information regarding manufacturer, colors, etc. There is no need to provide an allowance for the brick. Refer to Section012500 of Volume II for material substitution procedures.
7. **Question:** The door schedule calls for some hollow metal frames to be Type 8. There is no type 8 shown on the frame elevation on page A-601. Please advise.

**Answer:** On drawing A-602 – First floor door schedule at doors 192L, 199H, 199I, 1001A, 1001B and 1006 Frame Type Designation “8” to read “2”. On drawing A-604 – Maintenance Building Door Schedule at doors 101, 103, 104, 105, 106, 107, 109A, 109D, 112C and 112D Frame Type Designation “8” to be revised to read “2”. On Drawing A-604 – Greenhouse Administration Office Door Schedule at doors 301A and 301B Frame Type Designation “8” to be revised to read “2”.

**8. Question:** Request for review of grass paver system.

**Answer:** Grass paver system is not required for this project and cannot be reviewed at this time.

**9. Question:** Drawings A-103A, A-108A, P-102A, P-103A, P-104A, M-103A, E-102A and E-607A are labeled “ALTERNATE”, there is nothing on the Bid Form for the scope of these drawings. Per the Volume IV “Supplemental Bid Documents” under Section Volume III “Construction Documents” item number 16 notes to delete all references to “Alternate Bid”. Please confirm all references to “Alternate” and “Alternate Bid” can be removed from the bid set.

**Answer:** Confirm. Sheets identifying “Alternate” are deleted from the set. Those sheets are A-103A, A-108A, P-102A, P-103A, M-103A, E-102A, and E-607A.

**10. Question:** Drawing A-102, Admin, 1<sup>st</sup> Floor, indicates a total one (1) Fire Extinguisher (FE) and 5 Fire Extinguisher Cabinets (FEC). Drawing G-005, Life Safety, indicates for the same area a total of 1 (FE) and 10 (FEC). Please clarify.

**Answer:** Sheet A-102 correctly shows the number of Fire Extinguishers and Fire Extinguisher Cabinets. Please note corrections on Sheet G-005 accordingly to match Sheet A-102.

**11. Question:** Drawing A-103, Admin, 2<sup>nd</sup> Floor, indicates a total of 2 (FE) and 5 (FEC). Drawing G-006, Life Safety indicates for the same area a total of 2 (FE) and 4 (FEC). Please clarify.

**Answer:** Sheet A-103 correctly shows the number of Fire Extinguishers and Fire extinguisher Cabinets. Please note corrections on Sheet G-006 accordingly to match Sheet A-104.

**12. Question:** Drawing A-103A, Admin, 2<sup>nd</sup> Floor- Alternate, indicates a total of 2 (FE) and 3 (FEC). There is no Life Safety drawing for the Alternate for the 2<sup>nd</sup> floor, please verify quantity.

**Answer:** See answer to Question 1 above.

**13. Question:** Drawing A-104, Warehouse Section1, indicates a total of 13 (FE) and 2 (FEC). Drawing G-005, Life Safety, indicates a total of 16 (FE) and 1 (FEC). Please clarify.

**Answer:** Sheet A-104 correctly shows the number of Fire Extinguishers and Fire Extinguisher Cabinets. Please note corrections on Sheet G-006 accordingly to match Sheet A-104.

**14. Question:** Drawing A-105, Warehouse Section 2, indicates a total of 0 for (FE) and (FEC). Drawing G-005, Life Safety, indicates a total of 1 (FE) and 0 (FEC). Please clarify.

**Answer:** Provide a total of 2 Fire Extinguishers. Please note corrections on Sheet G-005 and Sheet A-105 accordingly.

**15. Question:** Drawing A-111, Maintenance Bldg., indicates no (FE) and (FEC). Drawing G-007, Life Safety, indicates 8 (FE) and 0 (FEC). Please clarify.

**Answer:** Sheet G-007 correctly shows the number of Fire Extinguishers. Please note corrections on Sheet A-111 accordingly to match Sheet G-007.

**16. Question:** Drawing A-110, A-112, and A-115, list Ceiling Types at the top of the sheet, C as “2x2 Suspended Acoustical Tile System Type 3”. Specification section 095113 does not specify an ACT-3. Please verify that “C”-Type 3 (ACT-3) is not used.

**Answer:** Sheet A-108 in Room 201 “Executive Board Room” shows a Type C ceiling at 10’-6”. Please note corrections on Sheet A-108 to show the ceiling in Room 201 “Executive Board Room” as Type B ceiling at 10’-6”. Specifications are correct; there is not a Type C ceiling.

**17. Question:** Drawing A-104 indicates “10’-0” Black Vinyl Coated Chain Link Fence, See Detail 9/C-501”. Drawing C-501 has no detail 9 or any fence details. Please provide details for installation inside the buildings.

**Answer:** Please see attached Sheet A-507. Please note corrections on Sheet G-001 to add new Sheet A-507.

**18. Question:** Drawing A-111 indicates “Full Height Chain-Link Fence” at Room 102 Balancing & Parts Room. Drawing A-308/2 indicates the fence to be approximately 8’-0” in height. Please verify.

**Answer:** Sheet A-308 correctly shows Chain-Link Fence 8 foot tall. Please note corrections on Sheet A-111 accordingly.

**19. Question:** Drawing A-104 indicates that the chain link fence along Column Line 18 ends at Column C.9/18. No fencing is indicated between column and wall of Corridor K.

**Answer:** Chain-Link fence continues from column C.9-18 west to CMU wall of Corridor K.

**20. Question:** Drawing A-602 “First Floor Door Schedule Door 192E” indicates HM frame and door but “Remarks” state “CHAINLINK GATES”, please clarify.

**Answer:** Sheet A-602, Door 192E – Delete the words “Chain-link Fence” in the remarks column. Under the Door Material column, change HM to GHM and under the Frame Material column, change HM to GHM.

**21. Question:** Drawing A-104 and door schedule indicate Door 192I to be Chain-link Gates. Please provide size.

**Answer:** Sheet A-104 and Sheet A-602 indicate that door 192I is a chain-link gate; the pair of gate is 8 foot wide by 10 foot tall.

**22. Question:** Drawing A-111 does not indicate bollards at the interior of the building at the OH Doors. Drawing A-308/1 and A-309/1 appears to have bollards at these locations, please confirm.

**Answer:** Sheet A-308 is correct; there are two interior bollards at each Overhead Door, 109B, 109C, 110A, 110B, 111A, 111B, 112A, and 112D. Please note corrections on Sheet A-111 accordingly to show these interior bollards.

**23. Question:** Drawing A-401, Detail 3, Plan indicates that vending machine located next to range (RG-1) is NIC. Elevation 5 on Drawing A-407 indicates that the unit is a refrigerator/freezer (RF-1). Please clarify.

**Answer:** Drawing A-401, Detail 3 is correct. Please note corrections on Sheet A-407, Detail 5/A407 accordingly to match plan detail 3/A401.

**24. Question:** Drawing A-402, Detail 2 “Pantry 105”, there is no elevation of the North wall. Please provide.

**Answer:** Please see attached Field Sketch marked, FS-A407-1.

**25. Question:** Specification 113100 Residential Appliances list “Icemaker IC-2”, the plans do not indicate this unit. Please clarify if this unit is omitted.

**Answer:** Sheet A-104 shows Ice Machine (IC-2) in Room 196 “ICE”. Revise Sheet A-105 at Room 196 note reading “Ice Mach. (NIC)” to read “Ice Machine (IC-2)”.

**26. Question:** The following rooms Drawing A-104, Toilet Room 1006, Drawing A-412, Jan Closet 104 and Drawing A-402, Pantry 105 do not indicate any toilet accessories. Is this correct?

**Answer:** Toilet Accessories at Toilet 1006 to be as follows: Provide GB1, GB2, MG, PTD and TTD3. See Accessories Schedule on Sheet A-404.

**27. Question:** Drawing A-401, Detail 2, Janitor Closet 144, north wall seems to indicate a toilet accessory FSS, the schedule on Drawing A-404 does not list this item. Please clarify.

**Answer:** Sheet A-401 Detail 2/A401 in Room 144 “Janitor Closet” – Delete the note “FSS”.

**28. Question:** Drawing A-607, schedule “Miscellaneous” – Corner Guard to be C/S Acrovyn. Please provide model number, size(s) and length.

**Answer:** Model Number is SSM-20N, partial height, 48” above base.

**29. Question:** Drawings A-605, A-606, and A-607 list under “Finish Abbreviations” WG WALL GUARD. Please indicate where this finish will be and a specification for it.

**Answer:** Sheets A605, A-606, and A-607 in the Finish Abbreviations, delete the word, “WG WALL GUARDS.”

**30. Question:** Drawings A-601 and A-607 make reference to “ALL exterior windows to receive horizontal aluminum blinds unless noted otherwise.” Window types W1, W2, W3, W7, W8, and W12 have radius head sections. Please clarify and provide details showing how the units are to be fabricated and installed.

**Answer:** Sheet A-601 and A-607 add the following note, “At all windows with radius head sections, window blinds to start at the radius of the window. There are no blinds on the radius portion of the window.”

**31. Question:** Specification 101423 “Panel Signage,” Par. 1.2.E.3 calls to F&I minimum of 20 interior and exterior way-finding signs. Par. 3.2.3 calls to provide 2 Directional Signs, Type CC@ in the Administration and Warehouse Building. Please clarify if the 20 way-finding signs are Type CC2 in addition to the specified.

**Answer:** The 20 way-finding signs are to be Type CC2.

**32. Question:** Drawings I-111 and I-112 identify sign Type BB5. Specification Section 101423 does not include this sign type in Par. 2.3 or Par. 3.2. Please clarify and provide quantity.

**Answer:** On Sheet I-111, delete Sign Type BB5.

**33. Question:** Please verify the intent of specification section 101423, Par. 3.2.1 is to install a Type BB@ sign “At all interior doors in the Administration and Warehouse Building, Maintenance Building, and Greenhouse Office Building...”

**Answer:** Specification 101423 Paragraph 3.2 Sign Schedule is correct.

**34. Question:** Specification 101423, Par. 2.3.B.1.d, indicates sign Type DD1. Please provide quantity and detail as no details are shown on drawings I-111 and I-112.

**Answer:** In Specification 101423 Paragraph 2.3.B.1.d, delete “No Smoking Sign: Type DD1.”

**35. Question:** Drawing I-112, please provide quantities of Type “Haz-1,” “Haz-2” and AA2 signs.

**Answer:** On Sheet I-112, delete Sign Types “HAZ 1”, and “HAZ 2.” In Specification 101300, add Paragraph 3.5 “Sign Schedule”, add the following: 1. In the Administration Building provide and install one (1) Sign Type AA2 as directed by the Owner’s Representative.

**36. Question:** Drawing A-404 contains the ACCESSORIES SCHEDULE which does not match specification section 102800. Specifications Par 2.3.F calls for Soap Dish(SD) located at all showers and drawings call for Manual Soap Dispenser(SD); Specification Par 2.4.B calls for Utility Shelf(US) with mop and broom holders and Par 2.4.C Mop and Broom Holder (MBH) drawings call for Mop/Broom holder with shelf (MS). Please clarify.

**Answer:** Replace Specifications Section 102800 Toilet, Bath and Laundry Accessories with the revised Specifications Section 102800, herewith attached. Sheets A-403 and A-404 are reissued and herewith attached.

**37. Question:** Drawing C-508, Detail 80, please provide Section A-A.

**Answer:** The concrete island has been omitted, therefore section A-A is not required. Provide striping of the area as shown.

**38. Question:** Drawing S-107, “Foundation Plan” calls for the s-o-g between column lines D & E “SEE CIVIL DWGS FOR PAVEMENT SLAB.” Drawing C-403 does not indicate any details for this slab. Please advise.

**Answer:** This area to be heavy duty concrete pavement per Section 14/C501. The pavement has a trench drain per Section 123/C512. See attached field sketches FS-C101-1 and FS-C403-1 for additional details.

**39. Question:** Specification Section 00100, Par. B, last paragraph after the word “Additionally,” please provide the remainder of the paragraph.

**Answer:** The remainder of the paragraph which states, “THE BIDDER IS ALSO REQUIRED TO WRITE THEIR GEORGIA LICENSE NUMBER ON THE OUTSIDE OF THE SEALED BID ENVELOPE” is provided in the bid document.

**40. Question:** Specification Section 101100 “Visual Display Surface,” specifies Marker board and Tack board but the drawings do not indicate either of the products. Please provide quantity and size of each product.

**Answer:** On Sheet A-607, add the following note: “Provide and install six (6) 4 x 6 foot Marker boards and three (3) 2 x 3 foot Tack boards as directed by the Owner’s Representative.

**41. Question:** Drawings I-111, Detail 5, indicates Sign Type AA2, which appears to be Directories per Specification Section 101300. Drawing I-112, Detail 5 indicates the unit to have sliding glass panels, the specifications calls for hinged doors. Please verify which is required and the quantity of Directories.

**Answer:** See answer to Question 35 above.

**42. Question:** Table of Contents lists Specification section 071353 “Self-Adhering Sheet Waterproofing”, this section is not included in Vol. II documents.

**Answer:** See Specifications Section 071353 – Self-Adhering Sheet Waterproofing herewith attached. Please note corrections in Table of Contents accordingly.

**43. Question:** Drawing A-402, Restrooms 273 and 276 – Women Restroom 273 indicates a urinal, no toilet and compartment and Men restrooms 276 indicate a toilet and compartment and no urinal. Please clarify.

**Answer:** Sheet A-103 correctly labels Women’s Restroom 273 and Men’s Restroom 276. Please note corrections on Sheet A-402 by relocating Room tags to match Sheet A-103.

**44. Question:** Drawings A-104 and A-105 – Toilet 1006 does not indicate any toilet accessories. Please advise.

**Answer:** See answer to Question 26 above.

**45. Question:** Please refer to A-304 detail 2 and advise if an expansion joint between S.O.G. and wall is required.

**Answer:** See Structural Sheet S-101 for joint condition at Slab on Grade at column line 15.

**46. Question:** Volume IV “Supplemental Bid Documents” under section Volume III “Construction Drawings” number 3 calls for the racks and metal shelves to be part of the base bid. Please provide a specification.

**Answer:** Racks and shelves are part of the Owner-Directed Allowance. Specifications will be provided during the selection process.

**47. Question:** Volume IV “Supplemental Bid Documents” under section Volume III “Construction Drawings” number 4 calls for the ice machine in room 196 to be IC-1. Drawing A-104 calls for this ice machine to be an IC-2. Please advise which type is to be used.

**Answer:** Provide Type IC-2 Ice Machine.

**48. Question:** Volume IV “Supplemental Bid Documents” under section Volume III “Construction Drawings” number 14 calls for 16 cubicles to be part of base bid. Please provide a specification.

**Answer:** See attached Field Sketch for typical workstation/cubicle. Dimensions may vary depending on its location. Product shall be manufactured by Haworth, Inc. or approved equal.

**49. Question:** Regarding the ornamental fence, drawings show 4-rails on the panels and 3-rails for the gates. Please confirm. Also, please advise if 8' fence has slats and clarify if it has top rail or tension wire.

**Answer:** Comply with requirements of Specifications 323119.13 – Ornamental Fences and Gates. Sheet C-504 shows one manufacturer's product. The exterior fence around the property limits does not include slats.

**50. Question:** On drawing A-404, Elevation 6, wall tile is not shown. Is this the designer's intent? If not which specific wall tile should be included for this work?

**Answer:** On Sheet A-605 in the Finish Schedule, add the following: At Room 139A Women's Toilet Room: Floor PORC -4; Base PORC B-2; North Wall Material PORC-5,6/EPXY-1; South Wall Material PORC-5,6/EPXY-1; East Wall Material PORC-5,6/EPXY-1; West Wall Material PORC-5,6/EPXY-1; Ceiling Material GYP, Finish PT-6; Remarks, Refer to Sheet A-404 for Elev/A-401 for enlarged plan.

**51. Question:** Overhead Door contractor to verify the dimensions of all these doors:

- a. #192B – 8'x10' on Door Schedule, M.O. dimensioned 12'-4" wide on A-105 and scales 12'x12' on Sheet A-301.
- b. #192D – 6'x12' on Door Schedule, scales about 6'x3'-6" on Sheet A-301.
- c. #197D-G-12'x12'-8" on Door Schedule, M.O. dimensioned at 8'-4" on Sheet A-105.
- d. #199A,B – 12'x12' on Door Schedule, M.O. dimensioned 12'-8" on Sheet A-105.

Please advise.

**Answer:** See reissued Sheets A-602 and A-604 attached herewith.

**52. Question:** Is there a Counter Shutter on the Counter in Kitchenette Space 204 into Executive Board Room Space 201? If so, is it a Fire Shutter (Track reference in Detail 7/Sheet A-411)? Any specs?

**Answer:** Delete Coiling Fire Shutter as shown on detail 7/A411. See Elevation 8/A407 for Manual Bi-Fold shutters.

**53. Question:** Are Doors #192B and #197D-G considered interior or exterior door?

**Answer:** Doors 192B and 197D-G are considered exterior doors.

**54. Question:** Are all exterior doors, with the possible exception of #192D, to have a vision panels (shown on Elevations but not in the Specs)?

**Answer:** Doors are to have vision panels as shown on the elevations. Vision panels are to be manufacturer's standard.

**55. Question:** Are all of the doors, including #192D and the Counter Shutter mentioned above, to be motor-operated?

**Answer:** See Electrical Drawings for motorized doors and reissued Sheet A-602, herewith attached.

**56.Question:** Drawing C-301 detail 2 shows 8” corrugated pipe to drain to daylight at each end. Based on the profile, you can only drain to daylight one end.

**Answer:** The 8-in perforated pipe can drain to one side. Daylight to drain towards stream buffer.

**57.Question:** Specification 00100 paragraph M states the Utility Contractor’s License is not applicable. Please advise if form C-1 is part of the bid documents.

**Answer:** Form C-1 is not required to be submitted as part of the bid documents.

**58.Question:** Are the cubicles to be considered part of the furniture allowance?

**Answer:** All cubicles except those indicated in Volume IV – Supplemental Bid Documents, Item 14, Construction Drawings under Exhibit A, are considered part of the Owner-Directed Allowance. See also answer to Question 48.

ACKNOWLEDGEMENT OF ADDENDUM NO. 3

The undersigned proposer acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Department of Purchasing & Contract Compliance, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30303 by the ITB due date and time **December 3, 2012, 11:00 A.M.**

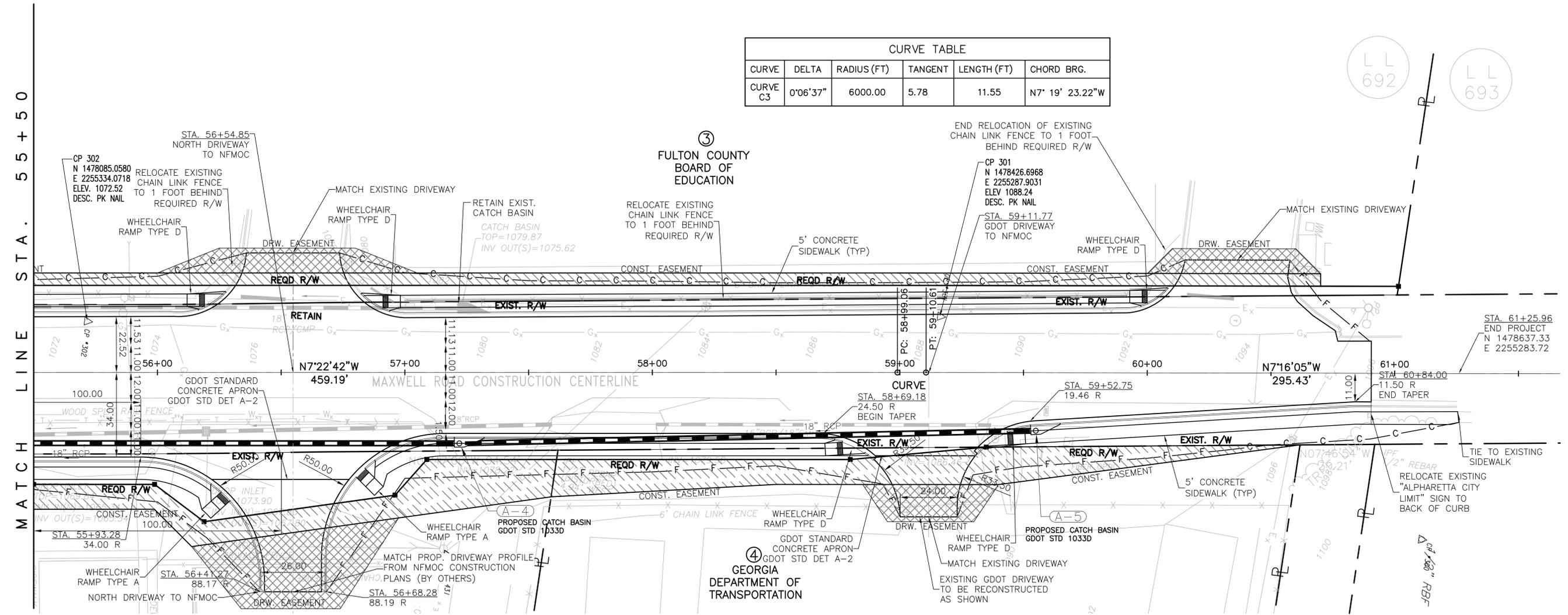
This is to acknowledge receipt of Addendum No. 3, \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Legal Name of Bidder

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Title

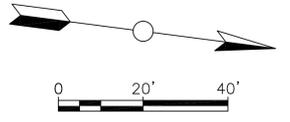
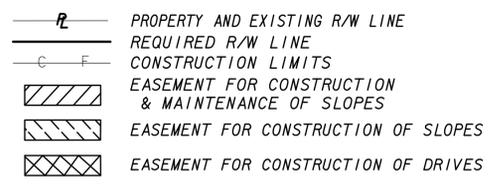
CURVE TABLE					
CURVE	DELTA	RADIUS (FT)	TANGENT	LENGTH (FT)	CHORD BRG.
CURVE C3	0°06'37"	6000.00	5.78	11.55	N7° 19' 23.22"W



NOTES:

FOR CONSTRUCTION OF MAXWELL ROAD IMPROVEMENTS IN FRONT OF PARCEL 4 PROPERTY – GEORGIA DEPARTMENT OF TRANSPORTATION:

1. THE CONTRACTOR SHALL INCREASE THE DRIVEWAY RADIUS TO 50 FEET. ALL ASSOCIATED WORK AS A RESULT OF THE CHANGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CHAIN LINK FENCE FROM STATION 57+61.87 TO STATION 60+61.77 WITH NEW 6-FOOT HIGH CHAIN LINK FENCE TOPPED BY 4 STRAND BARBED WIRE.
3. THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CHAIN LINK GATE WITH NEW 24-FOOT WIDE DOUBLE SWING GATE WITH 4 STRAND BARBED WIRE.
4. THE CONTRACTOR SHALL REPLACE EXISTING GDOT SIGN. NEW SIGN WILL BE PROVIDED BY GDOT.
5. THE CONTRACTOR SHALL COORDINATE ITS WORK WITH GDOT IN ORDER TO MAINTAIN CONTINUOUS OPERATION AND SECURITY AT THE FACILITY AT ALL TIMES DURING CONSTRUCTION.



J:\6145-10-0288-Maxwell Road MOC\Design\MAXWELL-CONST\_P1\_ANS.dwg - CP-02 10/18/2012 10:05am peng.zhong

REV	DATE	BY	SUB	APP	REQ	BY	DESCRIPTION	REV	DATE	BY	SUB	APP	REQ	BY	DESCRIPTION
2	10/17/12	CB	PZ	GO	R/W		ADDED NOTES AS PER COMMENTS ON RIGHT OF WAY ACQUISITION NEGOTIATION WITH GDOT								

DESIGNED  
P. ZHANG  
DRAWN  
C. BUDSOCK  
CHECKED  
G. OBARANEC  
IN CHARGE  
M. ILIC  
DATE 05 DEC 2011

FULTON COUNTY DEPARTMENT OF PUBLIC WORKS  
FULTON COUNTY, GEORGIA

AMEC Environment and Infrastructure  
3200 TOWN POINT DRIVE, SUITE 100  
KENNESAW, GEORGIA 30144 (770) 421-3400

MAXWELL ROAD IMPROVEMENTS  
FOR NORTH FULTON MAINTENANCE AND OPERATIONS CENTER

CONSTRUCTION PLANS 2 OF 2 STA.  
55+50 TO 60+90

SCALE AS SHOWN

CONTRACT  
6145-10-0288

DWG. NO. CP-02 REV. PAGE NO. 2 6

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**FUELING SYSTEM ADDITION  
for  
NORTH FULTON MAINTENANCE AND  
OPERATIONS CENTER - W026  
ROSWELL, GEORGIA**

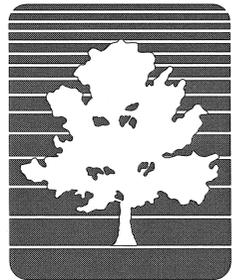
**FULTON COUNTY  
DEPARTMENT OF WATER RESOURCES**

APPROVED  
STATE FIRE MARSHAL'S OFFICE  
AUG 24 2012  
By: [Signature]  
FACILITY SHALL BE  
CONSTRUCTED IN  
ACCORDANCE WITH  
APPROVED PLANS.

**FULTON COUNTY, GEORGIA**

**ISSUED FOR PERMIT  
AUGUST 8, 2012**

**PREPARED FOR:**



FULTON COUNTY



**PRIME  
ENGINEERING  
INCORPORATED  
PROJECT NUMBER 2015-0021**

# PROJECT DIRECTORY

**OWNER:** FULTON COUNTY DEPARTMENT OF WATER RESOURCES  
141 PRYOR STREET SW, SUITE 6001  
ATLANTA, GA 30303  
CONTACT: SIMON SOLOMERO JR.  
PHONE: OFFICE (404) 612-7418  
CELL (404) 630-8639

**ARCHITECT/ENGINEER:** PRIME ENGINEERING, INC.  
2715 NORTHSIDE PARKWAY NW  
300 NORTHCREEK, SUITE 200  
ATLANTA, GEORGIA 30327  
CONTACT: DICK DAVIS, P.E.  
PHONE: (404) 425-7100

# CODE INFORMATION

- THE PROJECT SHALL FULLY COMPLY WITH THE FOLLOWING CODES:
- SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL STANDARD BUILDING CODE (INTERNATIONAL BUILDING CODE), 2006 EDITION, WITH GEORGIA AMENDMENTS (2007, 2009, 2010)
- SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL STANDARD GAS CODE (INTERNATIONAL FUEL GAS CODE), 2006 EDITION, WITH GEORGIA AMENDMENTS (2007, 2008, 2010, 2012)
- SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL STANDARD MECHANICAL CODE (INTERNATIONAL MECHANICAL CODE), 2006 EDITION, WITH GEORGIA AMENDMENTS (2007, 2008, 2010, 2011, 2012)
- SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL STANDARD PLUMBING CODE (INTERNATIONAL PLUMBING CODE), 2006 EDITION, WITH GEORGIA AMENDMENTS (2007, 2008, 2009, 2010, 2011, 2012)
- NATIONAL ELECTRICAL CODE, 2011 EDITION, WITH GEORGIA AMENDMENTS (2012)
- INTERNATIONAL FIRE CODE, 2007 EDITION, WITH GEORGIA AMENDMENTS (2010)
- INTERNATIONAL ENERGY CONSERVATION CODE, 2009 EDITION, WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2011, 2012)
- GEORGIA RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER, EFFECTIVE FEBRUARY 1, 2007.
- GEORGIA ACCESSIBILITY CODE FOR BUILDINGS AND FACILITIES, EFFECTIVE JUNE 25, 1997

# GENERAL NOTES

- ALL WORK SHOWN ON THE DRAWINGS INCLUDED IN THIS SET TITLED FUEL SYSTEM ADDITION ARE PREPARED BY PRIME ENGINEERING, INC. (PRIME) AND SHALL BE INCORPORATED AS AN ADDENDUM TO AND INCLUDED WITH THE WORK SHOWN ON THE DRAWINGS INCLUDED IN THE SET TITLED AS NORTH FULTON MAINTENANCE AND OPERATIONS CENTER PREPARED BY POND & COMPANY (POND). THE DRAWINGS PREPARED BY PRIME INCLUDE PLANS, ELEVATIONS, AND DETAILS FOR THE INSTALLATION OF A MAINTENANCE VEHICLE FUELING STATION INCLUDING UNDERGROUND STORAGE TANKS, FUEL DISPENSERS, AND OVERHEAD CANOPY, PIPING, ELECTRICAL POWER AND CONTROL SYSTEMS IN ADDITION TO MODIFICATIONS TO PAVING, UNDERGROUND UTILITIES, AND LANDSCAPING. THE WORK DESIGN BY PRIME IS NOT INCLUDED NOR A PART OF THE WORK DESIGNED BY POND. THE DRAWINGS PREPARED BY PRIME ALSO INCLUDES WORK THAT ELIMINATES CERTAIN PORTIONS OF THE WORK INCLUDED IN THE DRAWINGS BY POND, BUT IN NO INSTANCE HAS PRIME MODIFIED THE DESIGN OR DRAWINGS PREPARED BY POND, AND ACCEPTS NO RESPONSIBILITY FOR ANY WORK SHOWN ON THE DRAWINGS PREPARED BY POND.
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS, REGULATIONS, ORDINANCES, CODES, AND OTHER REQUIREMENTS BEARING ON THE CONDUCT OF THE WORK.
- CONTRACTOR SHALL ABIDE BY ALL OSHA STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS, INSPECTIONS, FEES, ETC.
- CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE WITH THE BUILDING AND WORK PRIOR TO SUBMISSION OF BID.
- ALL WORK SHALL BE LIMITED TO THAT SHOWN ON THE DRAWINGS. NO ADDITIONAL WORK SHALL BE PERFORMED WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER. ANY ADDITIONAL WORK PERFORMED WITHOUT THE OWNERS CONSENT SHALL BE DONE AT THE CONTRACTOR'S SOLE EXPENSE.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, LOCATIONS, AND SIZES PRIOR TO BEGINNING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
- CONTRACTOR SHALL COORDINATE ALL UTILITIES PRIOR TO ANY EARTH-DISTURBING ACTIVITY. WORK AROUND EXISTING UTILITIES SHALL BE PERFORMED IN A MANNER THAT WILL AVOID DAMAGE TO THE UTILITIES. CONTRACTOR IS HELD ACCOUNTABLE FOR MAINTAINING AND PROTECTING EXISTING UTILITIES.
- THE CONTRACTOR SHALL FOLLOW ALL SECURITY PROCEDURES REQUIRED BY OWNER WHILE ON SITE.
- ALL CONTRACTOR SHALL BE AWARE OF OTHER PROJECTS ON THE SITE THAT ARE UNDER CONSTRUCTION. THEY SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES SO AS NOT TO INTERRUPT OTHER PROJECT CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL RESTORE ANY "STAGING" AREAS TO THE ORIGINAL CONDITIONS TO THE SATISFACTION OF THE OWNER AND ENGINEER UPON COMPLETION OF THE CONTRACT WORK.
- ALL CONTRACTOR MATERIAL ORDERS FOR DELIVERY TO THE WORK SITE SHALL BE COORDINATED WITH THE OWNER.
- ALL CONTRACTORS, SUBCONTRACTORS, AND SUPPLIERS SHALL MAINTAIN ON SITE MSDS (MATERIAL SAFETY DATA SHEETS) FOR ALL MATERIALS USED IN THE PROJECT.
- CONTRACTOR SHALL NOT USE ANY MATERIALS CONTAINING ASBESTOS OR OTHER HAZARDOUS MATERIALS.
- ALL TRUCKS HAULING DEBRIS OR MATERIAL TO THE PROJECT SITE SHALL BE EQUIPPED WITH TAILGATES WHICH SHUT TIGHTLY AND DO NOT PERMIT DEBRIS TO SPILL FROM THE TAILGATE AREA. UNDER NO CIRCUMSTANCES SHALL TRUCKS BE PERMITTED TO BE LOADED GREATER THAN LEGAL LIMIT OR HIGHER THAN THE SIDEBOARDS.
- CONTRACTOR IS TO DISPOSE OF ANY CONTAMINATED SOIL IN A CERTIFIED LAND FILL.
- ENGINEER HAS NOT CONDUCTED ANY INVESTIGATION AS TO THE PRESENCE OF ANY HAZARDOUS MATERIALS, INCLUDING BUT NOT LIMITED TO ASBESTOS, LEAD PAINT, P.C.P.S. ETC. WITHIN THE LIMITS OF THE WORK. THE ENGINEER WILL NOT ACCEPT RESPONSIBILITY FOR THE IDENTIFICATION AND/OR REMOVAL OF ANY HAZARDOUS MATERIALS OR FOR ANY EFFECT FROM ITS PRESENCE. IF ANY SUCH MATERIALS ARE FOUND IN THE PROJECT, CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING.
- OPEN FLAME WELDING OR TORCH CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN TAKEN AND THE PROCEDURE APPROVED.
- STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM WIND CONDITIONS IN EXCESS OF 10 KNOTS.
- ALL DIMENSIONS ARE TO THE CENTERLINES OF PIPE UNLESS OTHERWISE NOTED.
- PROJECT CLEANUP SHALL INCLUDE A "VACUUM-CLEAN" INTERIOR SPACE WITH RESTORATION OF ALL DAMAGED SURFACES AND ITEMS TO A "LIKE NEW" CONDITION.
- CONTRACTOR TO GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF OWNER ACCEPTANCE.
- CONTRACTOR SHALL PROVIDE ENGINEER WITH A SET AS-BUILT DOCUMENTS IN ACCORDANCE WITH THE GENERAL CONTRACT.
- THIS PROJECT INCLUDES CONSTRUCTION OF A FUEL ISLAND AND PARKING CANOPY.

# DRAWING INDEX

## DRAWING NUMBER

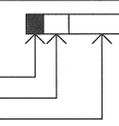
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D	8/08/12	G-001
D	8/08/12	G-101
D	8/08/12	C-001
D	8/08/12	C-100
D	8/08/12	C-201
D	8/08/12	C-202
D	8/08/12	C-203
D	8/08/12	C-301
D	8/08/12	C-401
D	8/08/12	C-402
D	8/08/12	L-101
D	8/08/12	M-001
D	8/08/12	M-002
D	8/08/12	M-101
D	8/08/12	M-401
D	8/08/12	M-402
D	8/08/12	M-403
D	8/08/12	E-001
D	8/08/12	E-002
D	8/08/12	E-100
D	8/08/12	E-101
D	8/08/12	E-201
D	8/08/12	E-401

## DRAWING TITLE

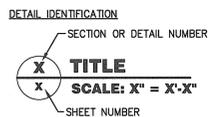
COVER  
GENERAL INFORMATION  
OVERALL SITE PLAN  
CIVIL LEGEND, NOTES & ABBREVIATIONS  
SCOPE REMOVAL PLAN  
SITE STAKING PLAN  
UTILITY PLAN  
GRADING PLAN  
PROFILES  
CIVIL DETAILS SHEET 1  
CIVIL DETAILS SHEET 2  
LANDSCAPE PLAN  
MECHANICAL LEGEND, NOTES & ABBREVIATIONS  
PROCESS FLOW DIAGRAM  
FUELING PIPING PLAN  
FUELING DETAILS - SHEET 1  
FUELING DETAILS - SHEET 2  
CANOPY AND GAS ISLAND PLAN AND ELEVATION  
ELECTRICAL LEGEND, NOTES & ABBREVIATIONS  
CONTROL DIAGRAM  
ELECTRICAL SITE PLAN  
FUEL CENTER RISER DIAGRAM AND PANEL SCHEDULE  
ELECTRICAL PLAN  
ELECTRICAL DETAILS

# LEGEND

INDICATES SHEET INCLUDED IN THIS ISSUE  
REVISION NUMBER  
LATEST ISSUE



# REFERENCE LEGEND



**PRIME ENGINEERING INCORPORATED**  
3715 NORTHSIDE PARKWAY NW  
300 NORTHCREEK, SUITE 200  
ATLANTA, GEORGIA 30327  
404-425-7100

**PROJECT:** FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER-#006 ROSWELL, GEORGIA

**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
A	7/19/12	ISSUED FOR 30% REVIEW
B	8/2/12	ISSUED FOR 100% REVIEW
C	8/7/12	ISSUED FOR BID
D	8/6/12	ISSUED FOR PERMIT

**SEAL**

DATE: 8/6/12

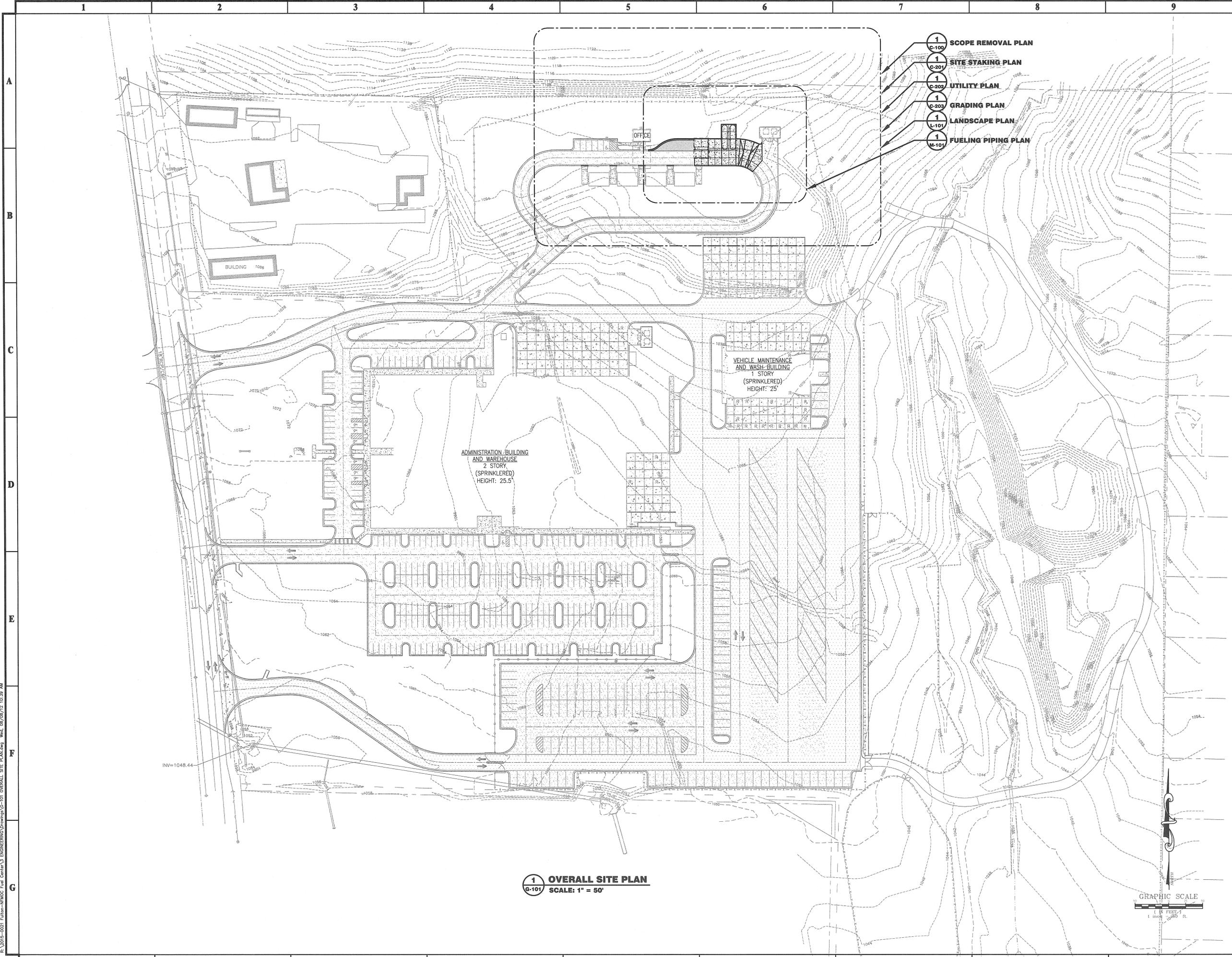
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# GENERAL INFORMATION

DRAWING DATE	7/19/12	DRAWN BY	AJD
DRAWING SCALE	AS NOTED	DESIGNED BY	KLL
PROJECT NUMBER	2015-0021	CHECKED BY	TDC
DRAWING NUMBER	G-001		

NOT ISSUED FOR CONSTRUCTION

R:\2015-0021 Fultons-NGMO Civil Center\3 ENGINEERING\Drawings\G-101 OVERALL SITE PLAN.dwg Wed, 08/08/12 10:39 AM



**1**  
G-101 **OVERALL SITE PLAN**  
SCALE: 1" = 50'

- 1**  
C-100 **SCOPE REMOVAL PLAN**
- 1**  
C-201 **SITE STAKING PLAN**
- 1**  
C-202 **UTILITY PLAN**
- 1**  
C-203 **GRADING PLAN**
- 1**  
L-101 **LANDSCAPE PLAN**
- 1**  
M-101 **FUELING PIPING PLAN**

**PRIME**  
**ENGINEERING**  
INCORPORATED

3715 NORTHSIDE PARKWAY NW  
300 NORTHCREEK SUITE 200  
ATLANTA, GEORGIA 30327  
404.425.7100

**PROJECT:** FUELING SYSTEM ADDITION  
for  
**NORTH FULTON MAINTENANCE  
AND OPERATIONS CENTER #W06**  
ROSWELL, GEORGIA

**PREPARED FOR:**  
FULTON COUNTY, GEORGIA  
DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
A	7/9/12	ISSUED FOR 30% REVIEW
B	8/7/12	ISSUED FOR 100% REVIEW
C	8/7/12	ISSUED FOR BID
D	8/8/12	ISSUED FOR PERMIT

**SEAL**

DATE: 8/8/12

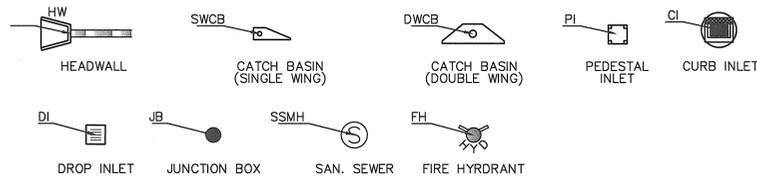
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<b>DRAWING TITLE</b>		<b>OVERALL SITE PLAN</b>	
<b>DRAWING DATE</b>	<b>DRAWN BY</b>	<b>AID</b>	<b>31</b>
<b>DRAWING SCALE</b>	<b>DESIGNED BY</b>	<b>KILL</b>	
<b>PROJECT NUMBER</b>	<b>CHECKED BY</b>	<b>TDCG</b>	
<b>DRAWING NUMBER</b>	<b>G-101</b>		
<b>NOT ISSUED FOR CONSTRUCTION</b>			

# ABBREVIATIONS

AGGR	AGGREGATE ASPHALT	IN	INCHES
ASPH	ASPHALT	IPF	IRON PIN FOUND
B & S	BELL & SPIGOT	IPS	IRON PIN SET
B	BUILDING LINE	IRRI	IRRIGATION
BOC	BOTTOM OF CURB	JB	JUNCTION BOX
CB	CATCH BASIN	LF	LINEAR FEET
C	CENTERLINE	LP	LIGHT POLE
CF	CUBIC FEET	MIN	MINIMUM
CJ	CONTROL JOINT	MH	MANHOLE
CO	CLEAN OUT	N/A	NOT APPLICABLE
CONC	CONCRETE	NIC	NOT IN CONTRACT
CMP	CORRUGATED METAL PIPE	NTS	NOT TO SCALE
DIA	DIAMETER	OC	ON CENTER
DI	DROP INLET	O.D.	OUTSIDE DIAMETER
DIP	DUCTILE IRON PIPE	O.F.	OVER FLOW
E	ELECTRICAL	PIV	POST INDICATOR VALVE
EJ	EXPANSION JOINT	PVC	POLY VINYL CHLORIDE
EMER	EMERGENCY	R	RADIUS
EOP	EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE
ELEV	ELEVATION	R/W	RIGHT OF WAY
EQUIP	EQUIPMENT	REQ'D	REQUIRED
EXIST	EXISTING	SSMH	SANITARY SEWER MANHOLE
FF	FINISH FLOOR	S/W	SIDEWALK
FIN	FINISHED	T	TELEPHONE
FH	FIRE HYDRANT	TE	TOP ELEVATION
FT	FEET	TOC	TOP OF CURB
FW	FIRE WATER	TW	TOP OF WALL ELEVATION
G	NATURAL GAS	TYP	TYPICAL
GI	GRATE INLET	UND	UNDER DRAIN
G.C.	GROUND COVER	UNO	UNLESS NOTED OTHERWISE
GV	GATE VALVE	VC	VERTICAL CURVE
GM	GAS METER	W	DOMESTIC WATER
HW	HEADWALL	W/	WITH
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		

# STRUCTURAL LAYOUT POINTS



# CIVIL LEGEND

	EXISTING	PROPOSED
ASPHALT		
BENCHMARK		
BOLLARD		
BUILDING		
CENTERLINE		
CONCRETE		
CONCRETE LIGHT POLE		
CONCRETE STAIRS & LANDING		N/A
CONTROL JOINT	N/A	
CONTOURS (MAJOR)		
CONTOURS (INTERMEDIATE)		
CONTROL POINT		N/A
CREEK CENTERLINE		
DEMOLITION AREA	N/A	
EARTH	N/A	
ELECTRIC METER BOX		N/A
ELECTRIC TRANSFORMER PAD		N/A
EXPANSION JOINT	N/A	
FENCE		
FIRE HYDRANT		
GAS LINE		
GRASS	N/A	
GROUT		
GUARDRAIL		
GUY WIRE		N/A
IRON PIN FOUND		N/A
OVERHEAD POWER		N/A
POWER POLE		
PROPERTY LINE		
RETAINING WALL		
SANITARY SEWER		
SANITARY SEWER MANHOLE		
SEWER CLEAN OUT		
SIGN		
SILT FENCE	N/A	
SPOT ELEVATION		
STORM GRATE INLET		
STORM JUNCTION BOX		
STORM SEWER		
TELEPHONE PEDESTAL		N/A
STONE FOR CONSTRUCTION ENTRANCE	N/A	
INLET PROTECTION HAY BALS	N/A	
WATER VALVE		
WATER LINE		
WATER METER		

# CIVIL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CITY OF ROSWELL AND FULTON COUNTY REGULATIONS FOR THE CONSTRUCTION OF THIS SITE.
2. ALL DIMENSIONS ARE TAKEN FROM/TO FENCE LINES, EDGE OF PAVEMENT, BACK OF CURB, CENTERLINE OF UTILITY, CENTERLINE OF MANHOLE OR CATCH BASIN, CENTERLINE OF ROAD, OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
3. ALL EXISTING CONDITIONS AND TOPOGRAPHIC INFORMATION SHOWN IS PROVIDED ACCORDING TO SURVEY PERFORMED BY LONG ENGINEERING INC. DATED JUNE 16, 2006, INCLUDING BOUNDARY AND TOPOGRAPHIC SURVEY OF NORTH FULTON HEALTH CENTER BY TRANSPORTATION SYSTEM DESIGN, INC. DATED APRIL 25, 2002 AND SIGNED BY DANIEL S. MAHAN RLS NO. 2275, JOB NUMBER 0203.05. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DIFFERING CONDITION.
4. THE TOPOGRAPHIC INFORMATION AS INDICATED IN NOTE 3 MAY HAVE CHANGED DUE TO STOCKPILING OF DIRT FROM OTHER SOURCES. CONTRACTOR SHALL VERIFY ACTUAL FIELD CONDITIONS.
5. CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES DAILY AND DURING PROLONGED PERIODS OF CONTINUOUS RAINFALL EVENTS TO ENSURE THAT ALL CONTROLS ARE FUNCTIONING PROPERLY. DAMAGED CONTROLS SHALL BE REPLACED BY THE END OF THE WORKDAY. SEE EROSION AND SEDIMENT CONTROL PLAN SHEETS C-104, C-105, C-106, AND C-107 ON THE POND CONSTRUCTION DOCUMENTS DATED: NOVEMBER 18, 2011.
6. ALL REQUIRED SEDIMENT AND EROSION CONTROL MEASURES SHOWN ON THE POND CONSTRUCTION DRAWINGS, DATED: NOVEMBER 18, 2011, SHALL BE PROVIDED, INSTALLED, AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION. INITIAL PHASE EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY LAND DISTURBANCE.
7. THE CONTRACTOR SHALL ADEQUATELY MAINTAIN ALL EROSION CONTROL DEVICES UNTIL A VIABLE STAND OF GRASS HAS BEEN ESTABLISHED AND IS IN HEALTHY CONDITION.
8. CONTRACTOR TO ASSURE ALL EXISTING TOPS OF MANHOLES AND VALVE BOXES ARE RAISED AND/OR LOWERED TO BE FLUSH WITH FINISHED GRADES UNLESS OTHERWISE SPECIFIED.
9. CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE COPIES OF THE NOTICE OF INTENT (NOI) TO THE ENGINEER BEFORE CONSTRUCTION BEGINS AND THE NOTICE OF TERMINATION (NOT) AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE REQUIRED TO SIGN THE NOI AS OPERATOR. NO SITE WORK WILL COMMENCE UNTIL SEVEN DAYS AFTER THE NOI HAS BEEN SUBMITTED TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES.
10. CONTRACTOR SHALL MATCH ALL NEW PAVEMENT FLUSH WITH EXISTING.
11. CONTRACTOR SHALL GRADE ALL DISTURBED AREAS TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND TO DRAINAGE STRUCTURES AND DITCHES.
12. CONTRACTOR SHALL VERIFY ALL COORDINATES AND DIMENSIONAL INFORMATION PRIOR TO CONSTRUCTION. BRING ANY DIFFERING CONDITION WITH LAYOUT TO ATTENTION OF ENGINEER PRIOR TO STARTING CONSTRUCTION.
13. LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND DEPTHS OF SOME UTILITIES ARE UNKNOWN. ADDITIONAL UTILITIES MAY EXIST AT THE SITE WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSTALLATION OF ALL NEW UTILITIES WITH THOSE THAT ARE EXISTING. IF EXISTING PRESSURIZED UTILITIES (SUCH AS WATER MAINS) ARE IN CONFLICT WITH NEW GRAVITY SYSTEM, THE CONTRACTOR SHALL PROVIDE OFFSETS TO EXISTING PRESSURIZED UTILITIES TO REMEDY THE PROBLEM.
14. CONSTRUCTION SITES SHALL BE KEPT NEAT AND FREE OF TRASH.
15. CONTRACTOR SHALL COORDINATE WITH THE OWNER/OWNER'S REPRESENTATIVE FOR LAYDOWN AREA, OFFICES, PARKING AND STORAGE FACILITIES. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
16. A COPY OF THE NOI AND A BRIEF DESCRIPTION OF THE PROJECT SHALL BE POSTED AT THE CONSTRUCTION SITE IN A PROMINENT PLACE FOR PUBLIC VIEWING.
17. UPON SATISFACTORY COMPLETION OF FINAL STABILIZATION OF THE PROJECT SITE AND ACCEPTANCE BY THE OWNER, THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) OF PERMIT COVERAGE FOR THE PROJECT. THIS NOT SHALL BE SUBMITTED TO THE APPROPRIATE OFFICE OF THE GEORGIA DEPARTMENT OF NATURAL RESOURCES.
18. THE CONTRACTOR SHALL NOTIFY FULTON COUNTY BEFORE A UTILITY TIE-IN IS TO BE MADE. THE NOTIFICATION SHALL BE A MINIMUM OF 30 DAYS PRIOR TO THE DATE THAT TAPPING THE LINE IS REQUIRED.
19. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATIONS OF EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DIFFERING CONDITION.
20. WARNING TAPE SHALL BE PROVIDED ABOVE ALL BURIED PIPES OR WIRES PER EARTHWORK SPECIFICATION.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING FEES AND COORDINATION WITH OWNER FOR PERMITS.

## GENERAL SITE AND EARTHWORK NOTES

1. CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE WORK SHALL BEGIN. UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE. ALL UTILITIES MAY NOT BE SHOWN.
2. CONTRACTOR SHALL GRADE ALL DISTURBED AREAS TO ENSURE POSITIVE DRAINAGE TO DRAINAGE STRUCTURES AND DITCHES. NATURAL FLOW OF SURROUNDING WATERS SHALL NOT BE DISTURBED DURING CONSTRUCTION.
3. ALL EARTHWORK OPERATIONS REQUIRED FOR CONSTRUCTION OF THE VARIOUS STRUCTURES AND UTILITY LINES INDICATED SHALL BE CONDUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE SPECIFICATIONS. GRADING SHALL BE AS INDICATED, AND SHALL PRODUCE A FINISHED SURFACE WITH NO PONDING OF WATER, READY TO RECEIVE PLANTING MATERIALS OR GRASSING.
4. ALL TOPSOIL AND EXCAVATED MATERIAL SHALL BE STOCKPILED IN AN APPROVED AREA DURING CONSTRUCTION. EXCESS OR UNUSABLE TOPSOIL SHALL BE DISPOSED OF OFF SITE IN A MANNER THAT IS LEGAL AND CONSISTENT WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. EXCAVATED MATERIAL SHALL BE STOCKPILED AND STORED AT AN APPROVED LOCATION.
5. THE CONTRACTOR SHALL PROPERLY DISPLAY THE LAND DISTURBANCE PERMIT ON THE SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM THE THOROUGHFARE.
6. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION WASTE AND DEBRIS FROM THE SITE IN A MANNER THAT IS LEGAL AND CONSISTENT WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

**PRIME ENGINEERING INCORPORATED**  
 3715 NORTHSIDE PARKWAY NW  
 303 NORTHCREEK SUITE 200  
 ATLANTA, GEORGIA 30327  
 404.425.7100

**PROJECT:** FUELING SYSTEM ADDITION OR NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - #026 ROSWELL, GEORGIA  
**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

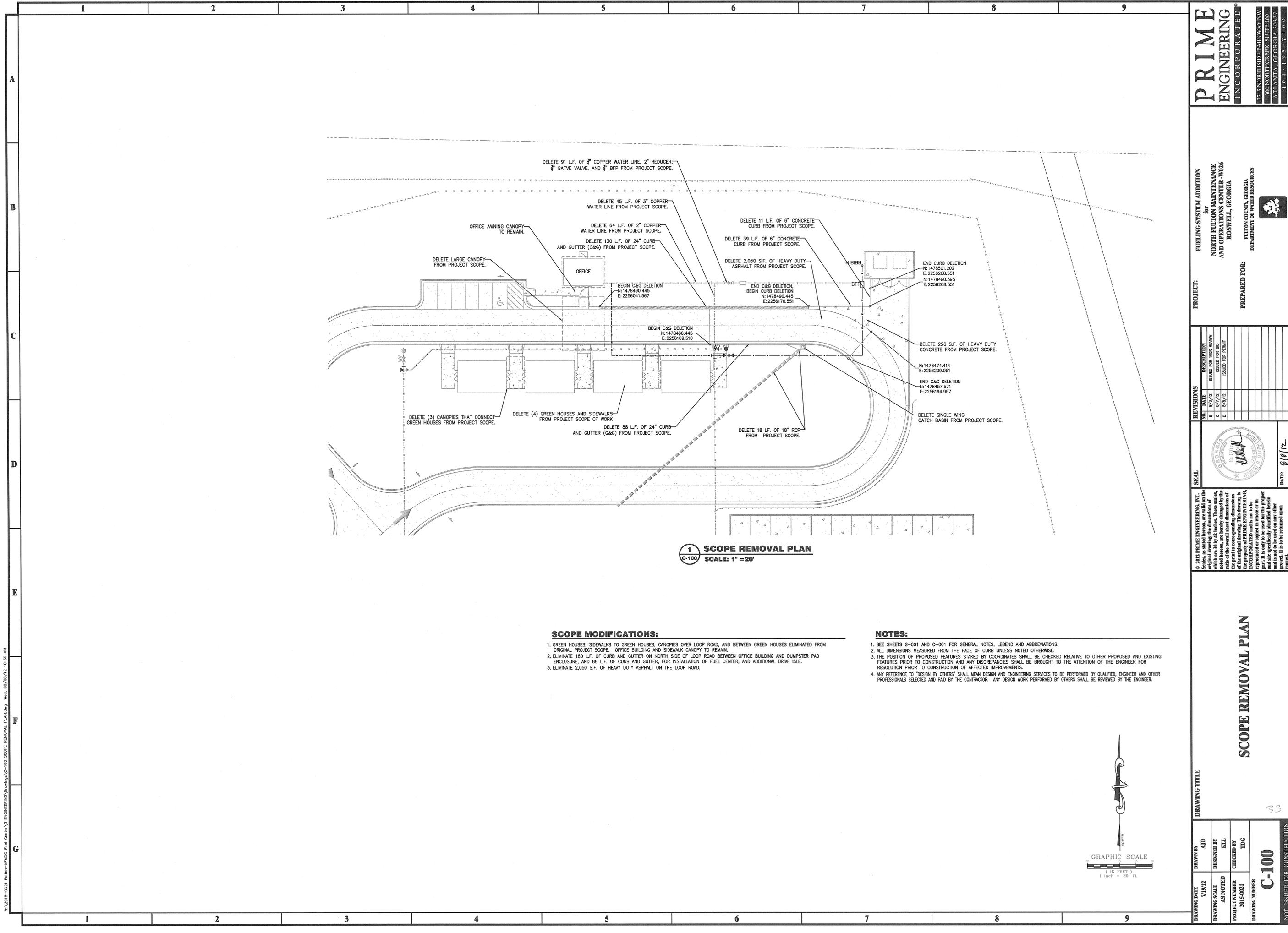
NO.	DATE	DESCRIPTION
A	7/19/12	ISSUED FOR 30% REVIEW
B	8/2/12	ISSUED FOR 100% REVIEW
C	8/7/12	ISSUED FOR BID
D	8/6/12	ISSUED FOR PERMIT

**SEAL:** [Professional Engineer Seal]  
 DATE: 8/8/12

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**CIVIL LEGEND, NOTES & ABBREVIATIONS**

<b>DRAWING DATE</b>	7/19/12
<b>DRAWING SCALE</b>	AS NOTED
<b>PROJECT NUMBER</b>	2015-0021
<b>DRAWING NUMBER</b>	C-001
<b>DRAWN BY</b>	AJD
<b>DESIGNED BY</b>	KLL
<b>CHECKED BY</b>	TDG
<b>DRAWING TITLE</b>	32
<b>NOT ISSUED FOR CONSTRUCTION</b>	



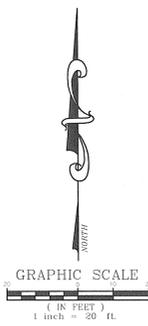
**1 SCOPE REMOVAL PLAN**  
 SCALE: 1" = 20'

**SCOPE MODIFICATIONS:**

- GREEN HOUSES, SIDEWALKS TO GREEN HOUSES, CANOPIES OVER LOOP ROAD, AND BETWEEN GREEN HOUSES ELIMINATED FROM ORIGINAL PROJECT SCOPE. OFFICE BUILDING AND SIDEWALK CANOPY TO REMAIN.
- ELIMINATE 180 L.F. OF CURB AND GUTTER ON NORTH SIDE OF LOOP ROAD BETWEEN OFFICE BUILDING AND DUMPSTER PAD ENCLOSURE, AND 88 L.F. OF CURB AND GUTTER, FOR INSTALLATION OF FUEL CENTER, AND ADDITIONAL DRIVE ISLE.
- ELIMINATE 2,050 S.F. OF HEAVY DUTY ASPHALT ON THE LOOP ROAD.

**NOTES:**

- SEE SHEETS G-001 AND C-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- ALL DIMENSIONS MEASURED FROM THE FACE OF CURB UNLESS NOTED OTHERWISE.
- THE POSITION OF PROPOSED FEATURES STAKED BY COORDINATES SHALL BE CHECKED RELATIVE TO OTHER PROPOSED AND EXISTING FEATURES PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION OF AFFECTED IMPROVEMENTS.
- ANY REFERENCE TO "DESIGN BY OTHERS" SHALL MEAN DESIGN AND ENGINEERING SERVICES TO BE PERFORMED BY QUALIFIED, ENGINEER AND OTHER PROFESSIONALS SELECTED AND PAID BY THE CONTRACTOR. ANY DESIGN WORK PERFORMED BY OTHERS SHALL BE REVIEWED BY THE ENGINEER.



**PROJECT:** FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - #026 ROSWELL, GEORGIA  
**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
B	8/7/12	ISSUED FOR 100% REVIEW
C	8/7/12	ISSUED FOR BID
D	8/6/12	ISSUED FOR PERMIT

**SEAL**

DATE: 8/8/12

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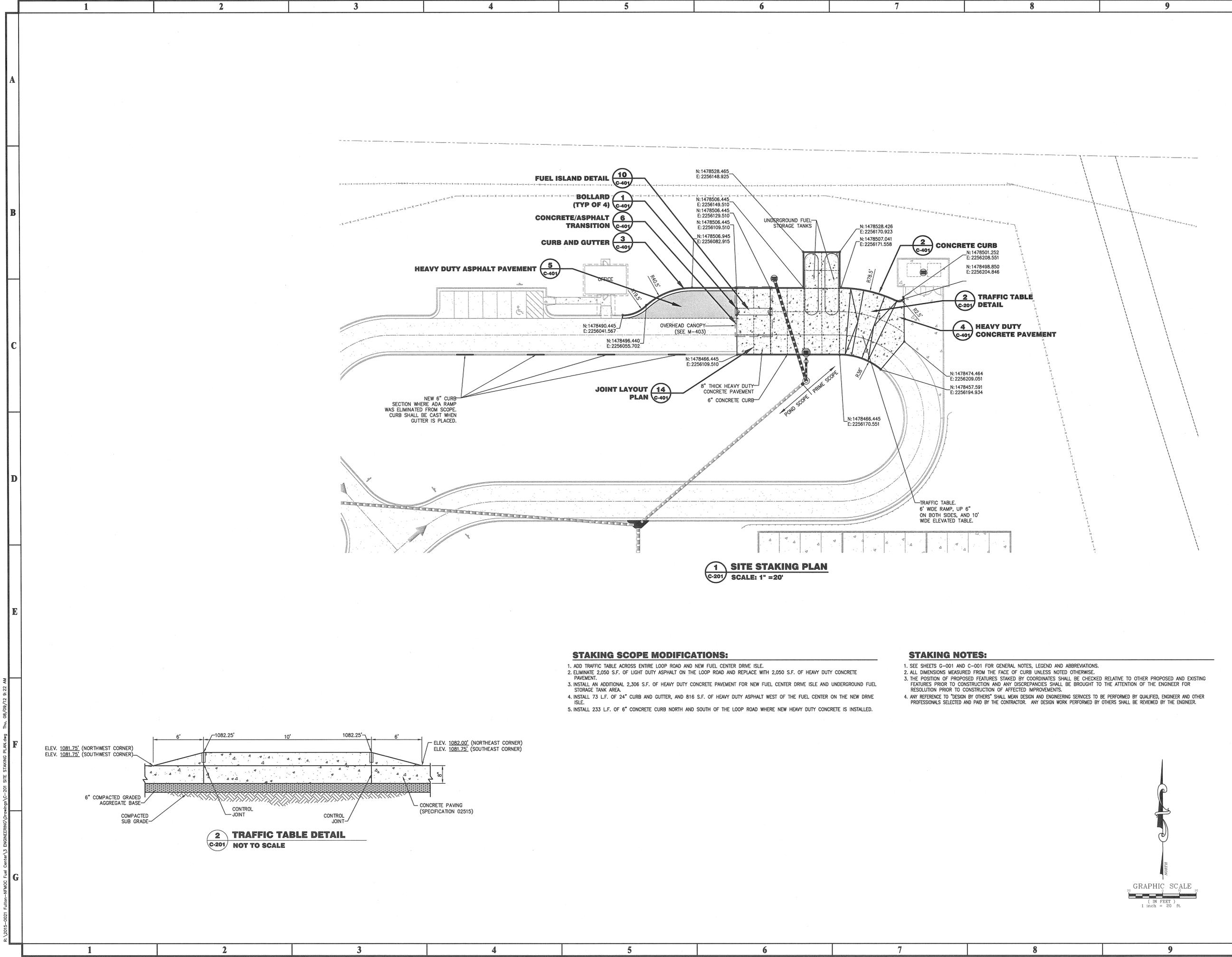
**SCOPE REMOVAL PLAN**

**DRAWING TITLE**

<b>DRAWING DATE</b>	7/19/12	<b>DRAWN BY</b>	AJD
<b>DRAWING SCALE</b>	AS NOTED	<b>DESIGNED BY</b>	KLL
<b>PROJECT NUMBER</b>	2015-001	<b>CHECKED BY</b>	TDC
<b>DRAWING NUMBER</b>	C-100		

33

NOT ISSUED FOR CONSTRUCTION



**PROJECT:** FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - W026 ROSWELL, GEORGIA

**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
A	7/19/12	ISSUED FOR PERMITS
B	8/2/12	ISSUED FOR PERMITS
C	8/7/12	ISSUED FOR PERMITS
D	8/9/12	ISSUED FOR PERMITS

**SEAL:** [Professional Seal]

**DATE:** 8/8/12

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**DRAWING TITLE:** SITE STAKING PLAN

**DRAWING NUMBER:** C-201

**DRAWING DATE:** 7/19/12

**DRAWN BY:** AJD

**DESIGNED BY:** KLL

**CHECKED BY:** TDG

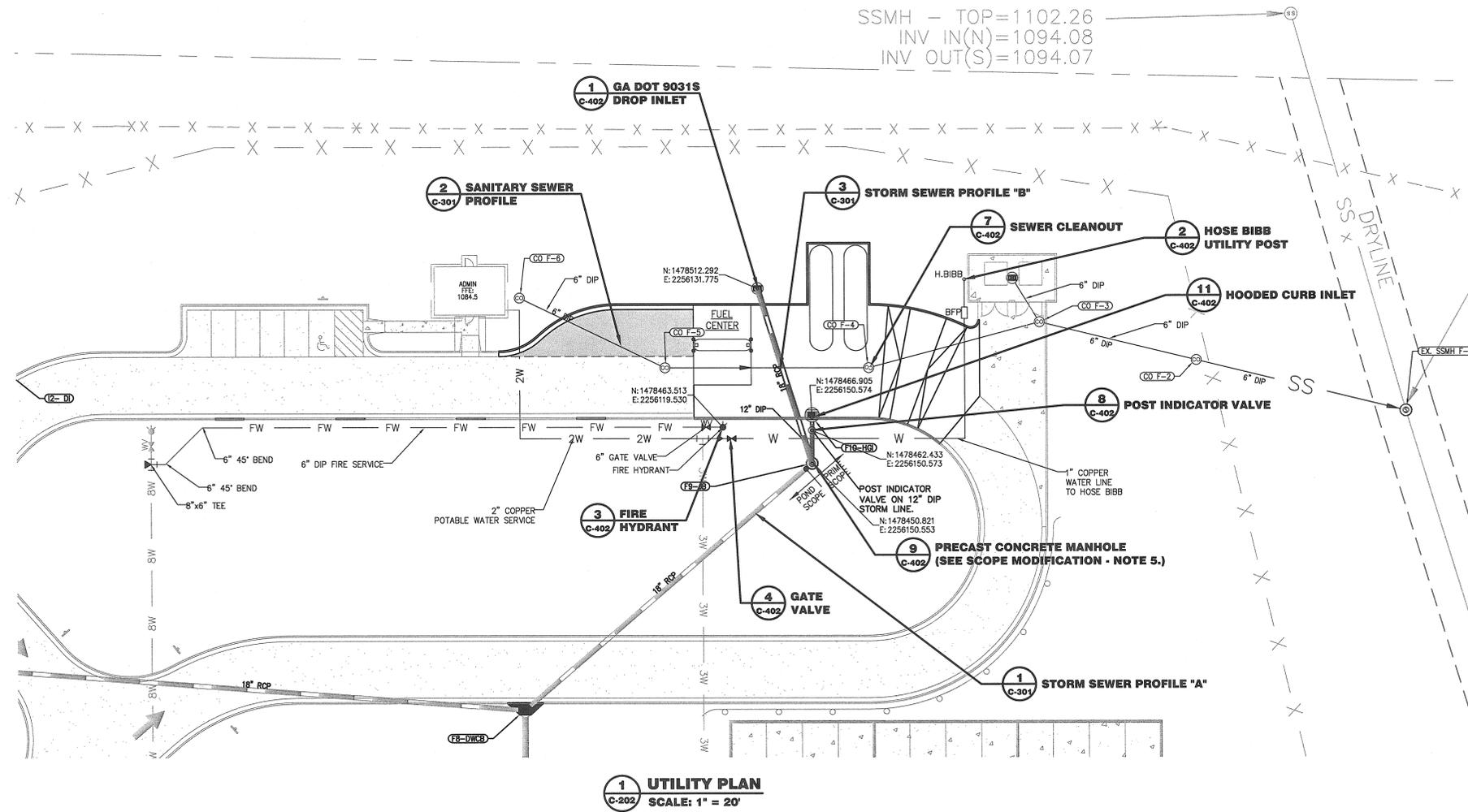
**PROJECT NUMBER:** 2015-0021

**DRAWING NUMBER:** C-201

**NOT ISSUED FOR CONSTRUCTION**

R:\2015-0021 Fulton-NPACC Fuel Center\3 ENGINEERING\Drawings\C-201 SITE STAKING PLAN.dwg Thu, 08/09/12 9:22 AM

R:\2015-0021-Fulton-NFMOC-Fuel-Center\Drawings\C-202 UTILITY PLAN.dwg Thu, 08/09/12 9:25 AM



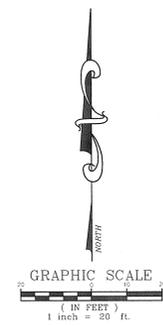
**1 UTILITY PLAN**  
SCALE: 1" = 20'

**UTILITY SCOPE MODIFICATIONS:**

1. RE-ROUTE 6" DIP SEWER LINE FROM OFFICE BUILDING AROUND NEW FUEL CENTER.
2. RELOCATE 2" COPPER WATER LINE AND 3/4" COPPER WATER LINE AND RPZ/BFP TO SOUTH SIDE OF LOOP ROAD TO AVOID CONFLICT WITH NEW FUEL CENTER.
3. INSTALL 205 L.F. OF 6" FIRE LINE AND A NEW FIRE HYDRANT ASSEMBLY AT FUEL CENTER ON SOUTH SIDE OF LOOP ROAD.
4. SLIDE SINGLE WING CATCH BASIN TO THE WEST 18 L.F. AND CHANGE TOP TO A HOODED GRATE INLET.
5. ELIMINATE 24 L.F. OF 18" RCP PIPE, AND ADD NEW JUNCTION BOX.
6. CONNECT HOODED GRATE INLET TO NEW JUNCTION BOX WITH 12" DUCTILE IRON PIPE, WITH A POST INDICATOR VALVE INSTALLED ON THE 12" DUCTILE IRON PIPE.

**UTILITY NOTES:**

1. SEE SHEETS 0-001 AND C-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. MINIMUM 1% SLOPE ON ALL GRAVITY UTILITY LINES.
3. CONTRACTOR TO FIELD LOCATE EXISTING WATER LINE AT TIE IN. ANY DIFFERING CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. WATER SERVICE IS PROVIDED BY FULTON COUNTY.
5. WATER LINES 3-INCHES AND LARGER SHALL BE CEMENT LINED DIP AND WATER LINES 2-INCHES AND SMALLER SHALL BE COPPER IN ACCORDANCE WITH FULTON COUNTY WATER SPECIFICATIONS.



**PROJECT:** FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER-30026 ROSWELL, GEORGIA  
**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

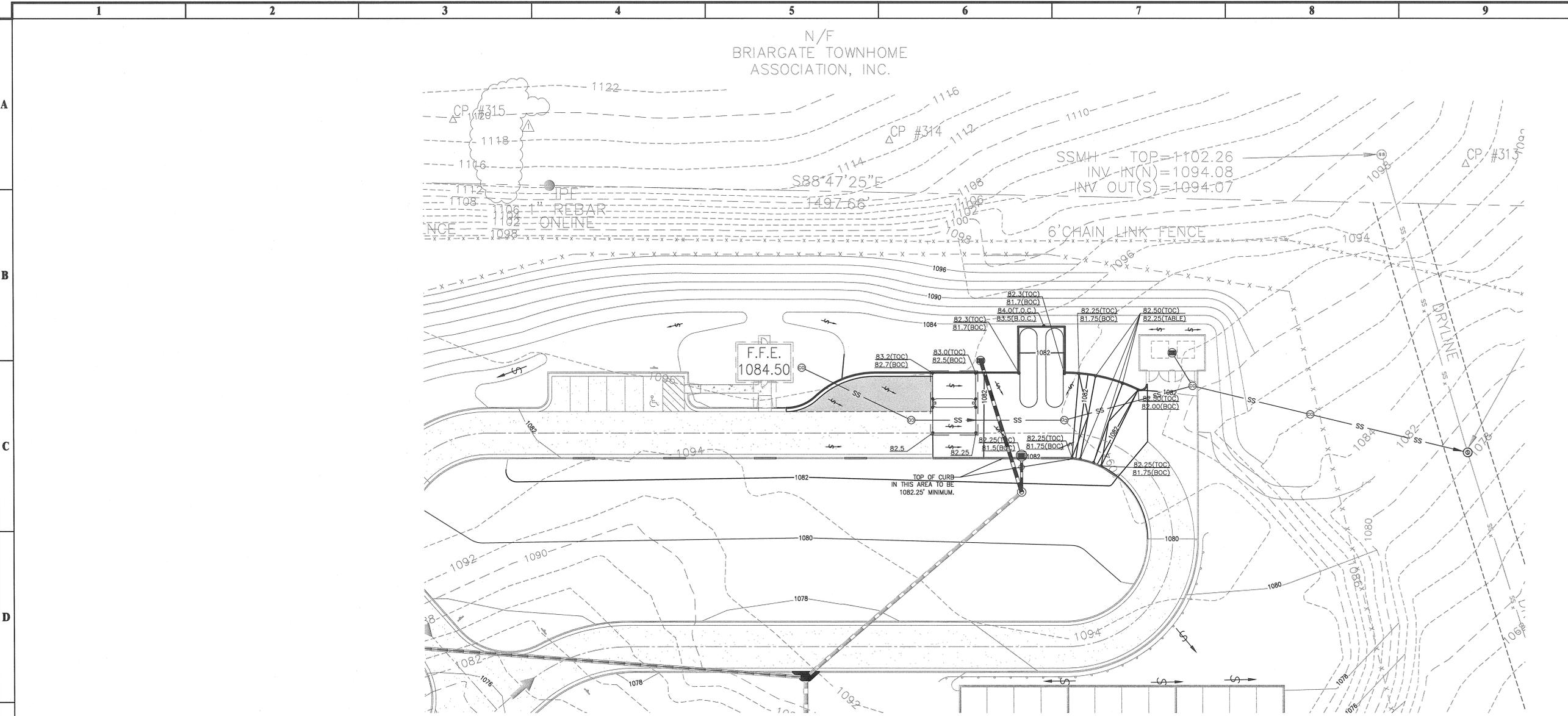
NO.	DATE	DESCRIPTION
A	7/19/12	ISSUED FOR 30% REVIEW
B	8/7/12	ISSUED FOR 100% REVIEW
C	8/7/12	ISSUED FOR BID
D	8/9/12	ISSUED FOR PERMIT

**SEAL:** [Professional Engineer Seal]  
DATE: 8/8/12

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<b>UTILITY PLAN</b>	
<b>DRAWING TITLE</b>	35
<b>DRAWING DATE</b>	7/19/12
<b>DRAWN BY</b>	AJD
<b>DRAWING SCALE</b>	1" = 50'
<b>DESIGNED BY</b>	KLL
<b>CHECKED BY</b>	TDC
<b>PROJECT NUMBER</b>	2015-0021
<b>DRAWING NUMBER</b>	<b>C-202</b>
NOT ISSUED FOR CONSTRUCTION	

R: 2015-0021 Fulton-NFMOE Final Center\ENGINEERING\Drawings\C-203 GRADING PLAN.dwg Thu, 06/09/12 9:27 AM



**1 GRADING PLAN**  
C-203 SCALE: 1" = 20'

**GRADING SCOPE MODIFICATIONS:**

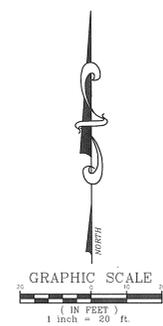
- RE-GRADE CENTER OF LOOP ROAD DUE TO ELIMINATION OF GREEN HOUSES.
- MODIFY STORM LINE F AND RELOCATE SW99 TO THE WEST AND CHANGE TO A HOODED GRATE INLET.
- MODIFY SLOPES OF LOOP ROAD BETWEEN THE PROPOSED OFFICE BUILDING AND DUMPSTER ENCLOSURE.

**GRADING NOTES:**

- SEE SHEETS C-001 AND C-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- ALL ELEVATIONS GIVEN ARE IN FEET AND FOR REFERENCE ONLY. FIELD VERIFY ALL HORIZONTAL & VERTICAL SURVEY CONTROLS PRIOR TO CONSTRUCTION. CONTOUR INTERVAL IS 2 FEET.
- SEE SHEETS C-301 FOR MODIFIED STORM DRAIN AND SEWER PROFILES PROFILES.

**SPILL CONTAINMENT VOLUME:**

VOLUME REQUIRED = 7,200 GALLONS X 10% = 7,200 GALLONS  
VOLUME PROVIDED @ ELEV. 1082.25 = 8,242 GALLONS



**PRIME ENGINEERING**  
INCORPORATED  
3715 NORTHSIDE PARKWAY NW  
FULTON COUNTY, GEORGIA 30242  
404.423.7100

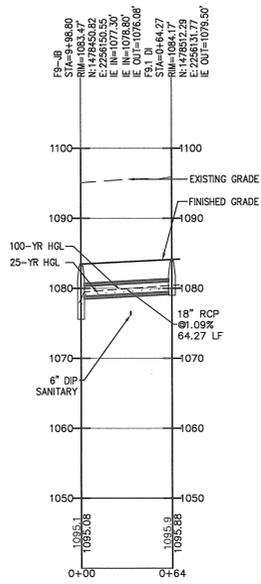
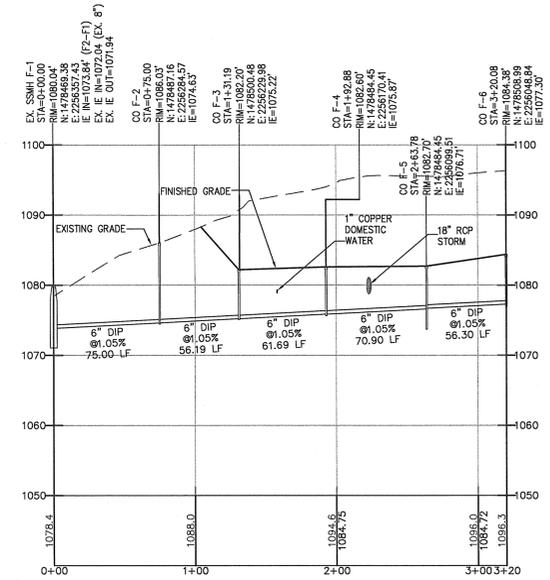
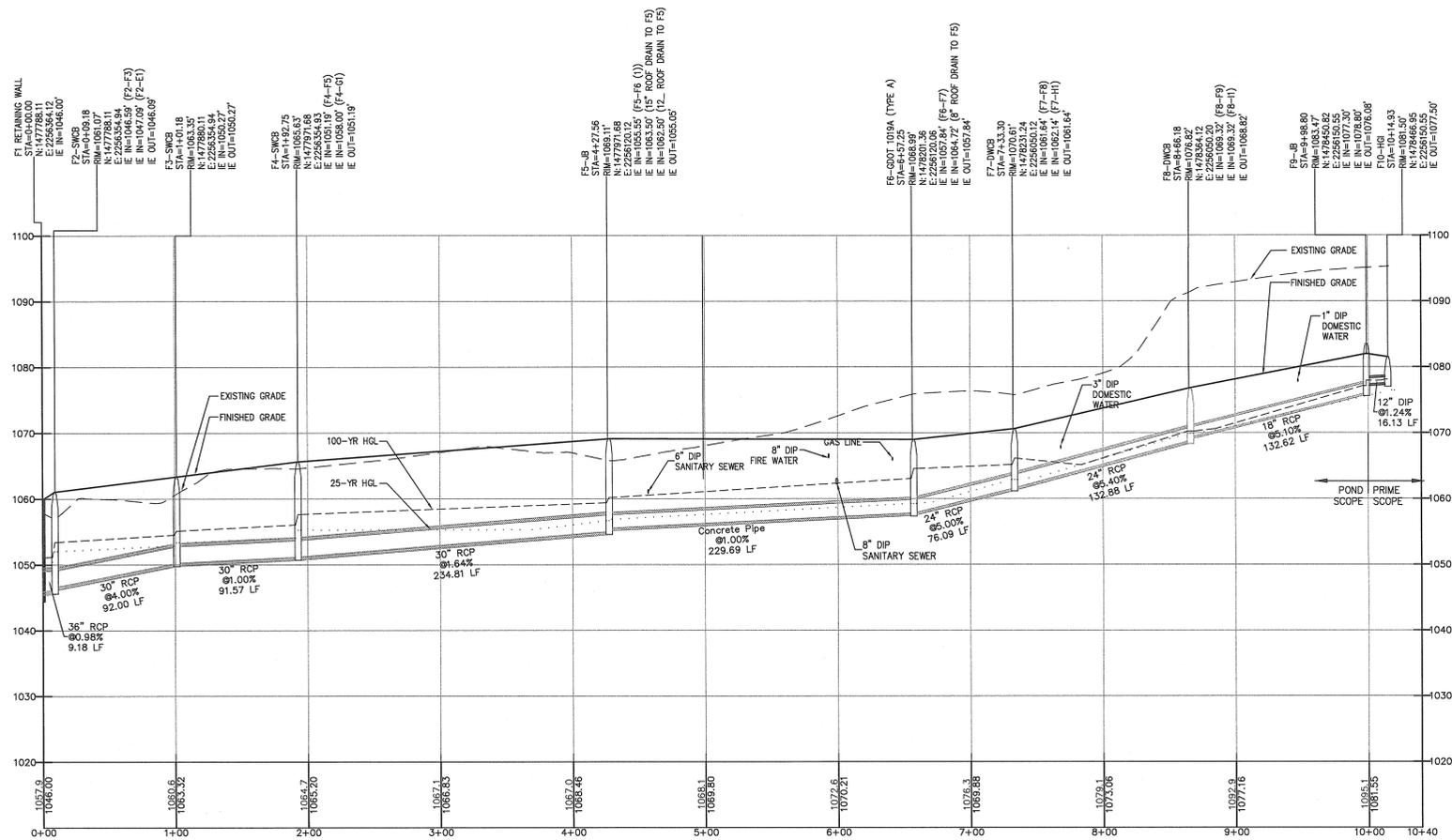
**PROJECT:** FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - #026 ROSWELL, GEORGIA.  
**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
A	7/9/12	ISSUED FOR 30% REVIEW
B	8/2/12	ISSUED FOR 100% REVIEW
C	8/7/12	ISSUED FOR BID
D	8/9/12	ISSUED FOR PERMIT

**SEAL**  
PRIME ENGINEERING, INC.  
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<b>GRADING PLAN</b>			
<b>DRAWING TITLE</b>	<b>DRAWN BY</b>	<b>AID</b>	
	<b>DESIGNED BY</b>	<b>KL</b>	
	<b>CHECKED BY</b>	<b>TDG</b>	
<b>DRAWING DATE</b>	7/9/12	<b>PROJECT NUMBER</b>	2015-0021
<b>DRAWING SCALE</b>	1" = 20'	<b>DRAWING NUMBER</b>	C-203
NOT ISSUED FOR CONSTRUCTION			



ST - F9  
 Horizontal Scale 1" = 50'  
 Vertical Scale 1" = 10'

**PROJECT:**  
 FUELING SYSTEM ADDITION  
 for  
 NORTH FULTON MAINTENANCE  
 AND OPERATIONS CENTER - W026  
 ROSWELL, GEORGIA

**PREPARED FOR:**  
 FULTON COUNTY, GEORGIA  
 DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
B	8/7/12	ISSUED FOR BIDD
C	8/7/12	ISSUED FOR BID
D	8/9/12	ISSUED FOR PERMIT

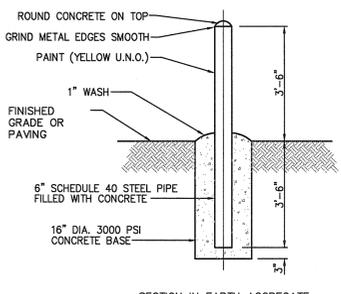


DATE: 8/9/12

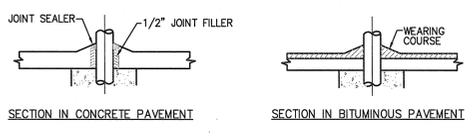
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**PROFILES**

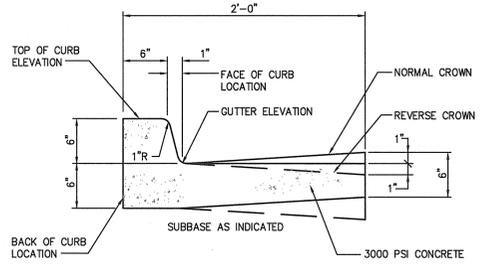
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7/9/12		
<b>DRAWING SCALE</b>	<b>DESIGNED BY</b>	<b>AS NOTED</b>
AS NOTED	KLK	
<b>PROJECT NUMBER</b>	<b>CHECKED BY</b>	<b>IDG</b>
2015-0021		
<b>DRAWING NUMBER</b>	<b>C-301</b>	
	NOT ISSUED FOR CONSTRUCTION	



**1 BOLLARD DETAIL**  
C-401 NOT TO SCALE

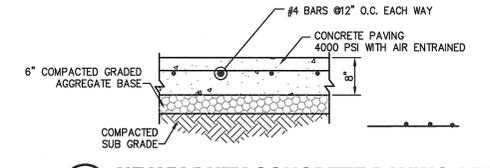


**2 CONCRETE CURB DETAIL**  
C-401 NOT TO SCALE

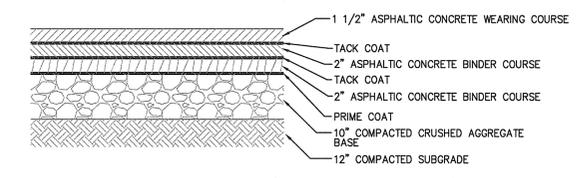


NOTES:  
1. USE NORMAL OR REVERSE CROWN TO MATCH DIRECTION OF PAVEMENT SLOPE.  
2. EXPANSION JOINTS: 1/2" WIDE, FULL DEPTH, AT 50' INTERVALS, TRANSVERSELY, AT ABUTTING STRUCTURES AND AT DRIVEWAYS, TANGENT POINTS OF RADIUS RETURNS AND STREET INTERSECTIONS.  
3. CONTRACTION JOINTS: 1" DEEP SAWCUTS ON 10 FT. CENTERS TRANSVERSELY.

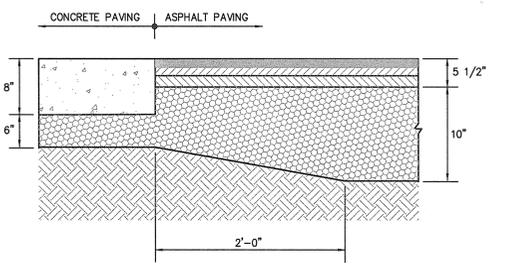
**3 CURB AND GUTTER DETAIL**  
C-401 NOT TO SCALE



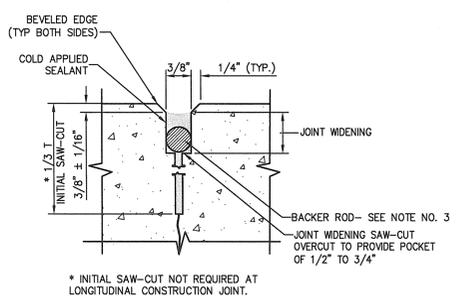
**4 HEAVY DUTY CONCRETE PAVING DETAIL**  
C-401 NOT TO SCALE



**5 HEAVY DUTY ASPHALT PAVING DETAIL**  
C-401 NOT TO SCALE

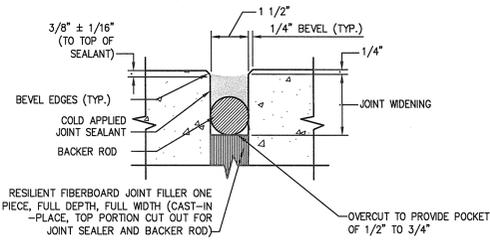


**6 CONCRETE/ASPHALT TRANSITION DETAIL**  
C-401 NOT TO SCALE

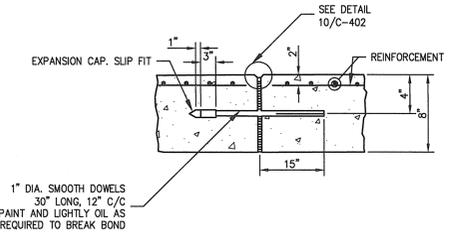


NOTES:  
1. LONGITUDE AND TRANSVERSE JOINTS SHALL BE SAWS AS INDICATED.  
2. TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED ONLY WHEN APPROVED BY THE ENGINEER.  
3. FOR ALL JOINTS, THE BACKER ROD MATERIAL SHALL BE COMPATIBLE WITH THE COLD APPLIED SEALANT AND SLIGHTLY OVERSIZED TO PREVENT MOVEMENT DURING THE JOINT SEALANT OPERATION.  
4. THE WIDTH OF THE JOINTS SHALL BE CORRECTED FOR 68°F.  
5. JOINT CONFIGURATION SHALL MEET JOINT SEAL MANUFACTURER'S SPECIFICATIONS. (EXCEPT AS NOTED ON PLANS AND IN SPECIFICATIONS).

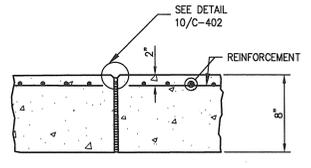
**7 CONSTRUCTION JOINT SEAL**  
C-401 NOT TO SCALE



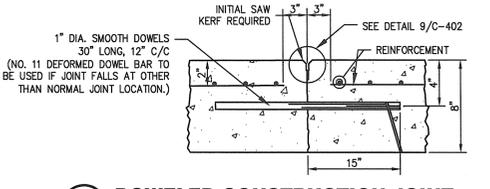
**8 EXPANSION JOINT SEAL**  
C-401 NOT TO SCALE



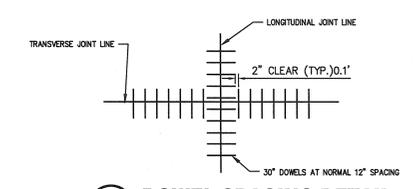
**9 EXPANSION JOINT WITH DOWEL BARS**  
C-401 NOT TO SCALE



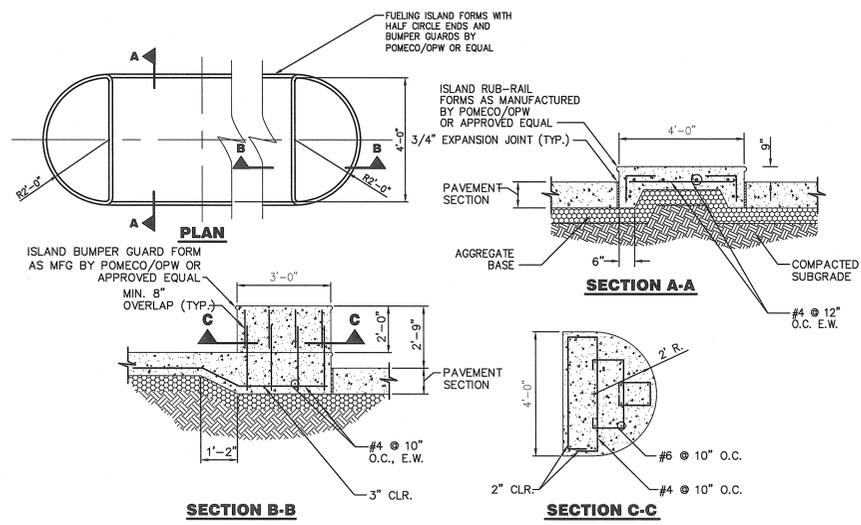
**11 EXPANSION JOINT WITHOUT DOWELS**  
C-401 NOT TO SCALE



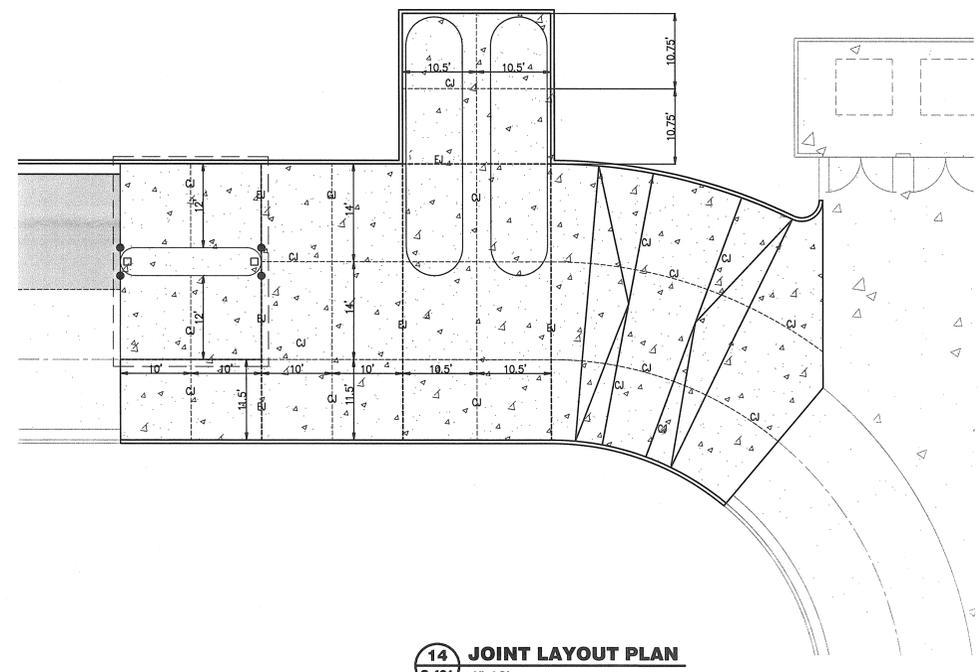
**12 DOWELED CONSTRUCTION JOINT**  
C-401 NOT TO SCALE



**13 DOWEL SPACING DETAIL**  
C-401 NOT TO SCALE



**10 FUEL ISLAND DETAIL**  
C-401 1/2"=1'-0"



**14 JOINT LAYOUT PLAN**  
C-401 1"=10'

**PRIME ENGINEERING INCORPORATED**  
715 NORTHEAST PARKWAY  
SUITE 100  
ATLANTA, GEORGIA 30327  
404-425-7100

PROJECT: FUELING SYSTEM ADDITION FOR NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - W026 ROSWELL, GEORGIA  
PREPARED FOR: FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
B	5/2/12	ISSUED FOR 100% REVIEW
C	5/7/12	ISSUED FOR BID
D	5/17/12	ISSUED FOR PERMIT

SEAL: [Professional Engineer Seal]  
DATE: 8/1/12

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DRAWING TITLE: CIVIL DETAILS SHEET 1  
DRAWING NUMBER: C-401

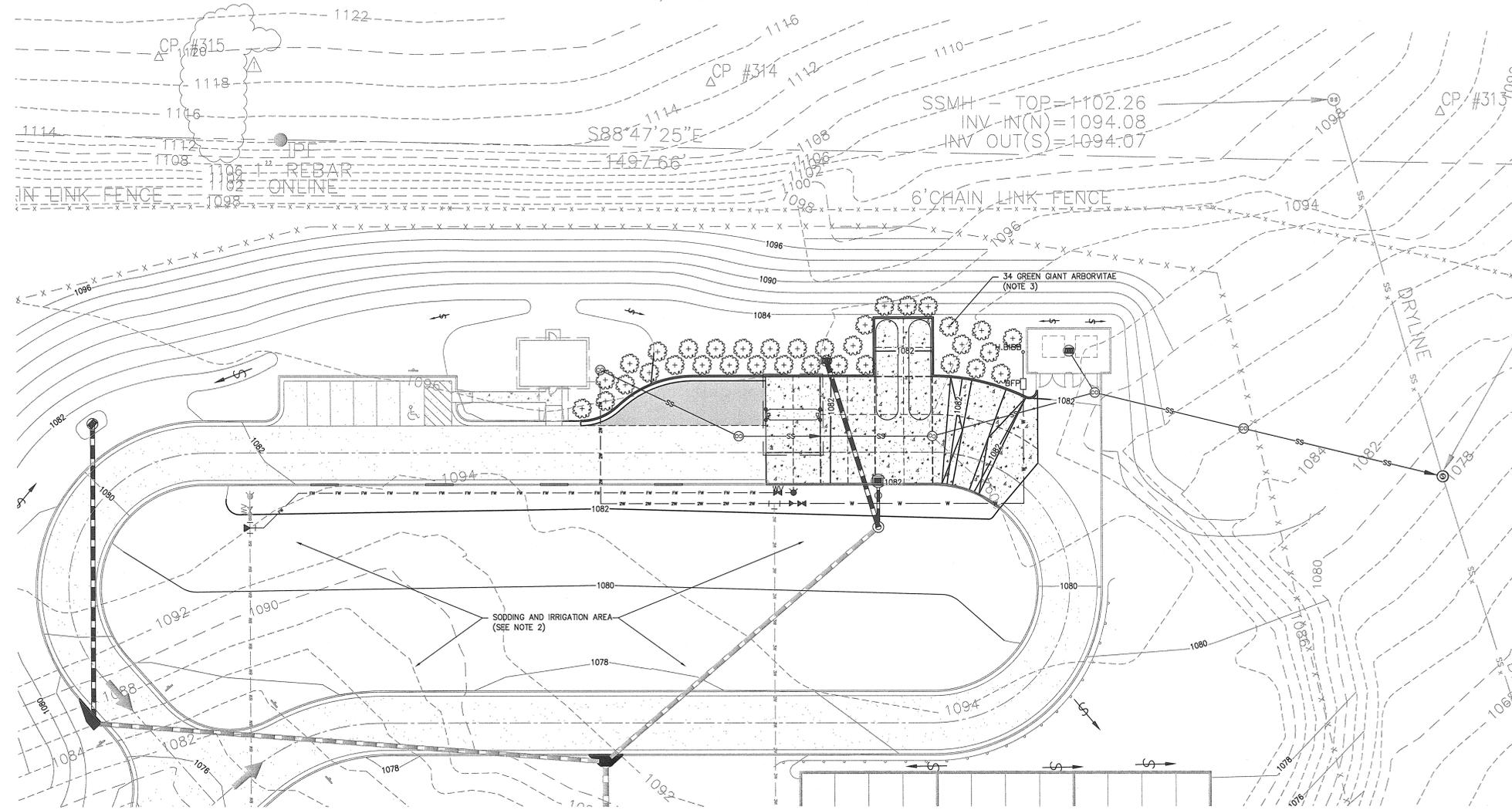
DRAWING DATE: 7/19/12	DRAWN BY: AJD
DRAWING SCALE: AS NOTED	DESIGNED BY: KLL
PROJECT NUMBER: 2015-0021	CHECKED BY: TDG
DRAWING NUMBER: C-401	NOT ISSUED FOR CONSTRUCTION

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R:\2015-0021-Fulton-HFAC-Center-V-ENGINEERING\Drawings\L-101 LANDSCAPE PLAN.dwg Thu, 08/09/12 9:34 AM

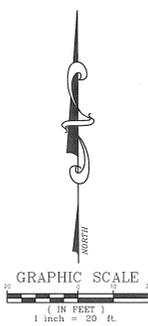
N/F  
BRIARGATE TOWNHOME  
ASSOCIATION, INC.



**1 LANDSCAPE PLAN**  
SCALE: 1" = 20'

**NOTES:**

- SEE SHEETS G-001 AND C-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- ENTIRE AREA INSIDE LOOP ROAD IS TO BE SODDED AND IRRIGATION SYSTEM IS TO BE EXTENDED TO ENCOMPASS THE AREA WHERE THE GREENHOUSES WERE TO BE LOCATED.
- THIS PLAN IS ALSO FOR REDISTRIBUTING THE 34 GIANT GREEN ARBORVITAE AROUND THE MODIFIED CONSTRUCTION AREA AS SHOWN. SEE POND DRAWINGS L-101 AND L-103 FOR MORE DETAILS ON PLANTS AND LANDSCAPE NOTES.



**PRIME ENGINEERING**  
INCORPORATED  
3715 NORTHSIDE PARKWAY NW  
300 NORTHCREEK SUITE 200  
ATLANTA, GEORGIA 30327  
404-423-7100

**PROJECT:** FUELING SYSTEM ADDITION  
OR  
NORTH FULTON MAINTENANCE  
AND OPERATIONS CENTER - #026  
ROSWELL, GEORGIA  
**PREPARED FOR:** FULTON COUNTY, GEORGIA  
DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
A	8/7/12	ISSUED FOR 100% REVIEW
B	8/7/12	ISSUED FOR BID
C	8/7/12	ISSUED FOR PERMIT
D	8/6/12	ISSUED FOR PERMIT

SEAL  
DATE: 8/8/12

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**LANDSCAPE PLAN**

<b>DRAWING DATE</b>	7/19/12	<b>DRAWN BY</b>	AJD
<b>DRAWING SCALE</b>	1" = 20'	<b>DESIGNED BY</b>	KL
<b>PROJECT NUMBER</b>	2015-0021	<b>CHECKED BY</b>	TDG
<b>DRAWING NUMBER</b>	<b>L-101</b>	<b>DRAWING NUMBER</b>	

NOT ISSUED FOR CONSTRUCTION

# ABBREVIATIONS

AD AREA DRAIN	G GAS - LOW PRESSURE GAS	R RADIUS
AFF ABOVE FINISHED FLOOR	GC GASKET	RAS RETURN ACTIVATED SLUDGE
AFG ABOVE FINISHED GRADE	GPM GALLONS PER MINUTE	RD ROOF DRAIN
ASHF ASPHALT	HB HOSE BIBB	RCP REINFORCED CONCRETE PIPE
BE BOTTOM ELEVATION	HD HUB DRAIN	REINF REINFORCEMENT
BFD BIODESEL FUEL DISPENSER	HP HORIZONTAL	RGS RIGID GALVANIZED STEEL
BFS BIODESEL FUEL SUPPLY	HPV HIGH POINT VENT	RL RAIN LEADER
BFP BACK FLOW PREVENTER	HWR HOT WATER RETURN	RPZ REDUCED PRESSURE ZONE
B/G BELOW GRADE	HWS HOT WATER SUPPLY	S SOIL STACK
BLDG BUILDING	ID INSIDE DIAMETER	SA SHOCK ABSORBER
BRS BARSCREEN	IE INVERT ELEVATION	SAN SANITARY
BV BALANCING VALVE	JFH JET FUEL HYDRANT	SBDP SATELLITE BIODESEL FUEL DISPENSER
CB CATCH BASIN	JFTP JET FUEL TRANSFER PUMP	SBP SUBMERSIBLE PUMP
CHWR CHILLED WATER RETURN	JB JUNCTION BOX	SDFD SATELLITE DIESEL FUEL DISPENSER
CHWS CHILLED WATER SUPPLY	L LOCKABLE	SD STORM DRAIN
C CENTER LINE	LP LIGHT POST	SS STAINLESS STEEL
CLG CEILING	LPD LOW POINT DRAIN	SHT SHEET
CMP CORRUGATED METAL PIPE	MAX MAXIMUM	SRC SPRING RETURN CLOSE
CO CLEAN OUT	M MOTOR	STM STEAM
COL COLUMN	MFG MANUFACTURER	SV SOLENOID OPERATED VALVE
CONC CONCRETE CONNECT	MH MANHOLE	S/W SIDEWALK
CONN CONNECTION	MIN MINIMUM	TBT TURBIDIMETER
CR CONDENSATE RETURN	MTR METER	TD TRENCH DRAIN
CS CARBON STEEL	N/A NOT APPLICABLE	TE TOP ELEVATION
CJ COPPER	NTS NOT TO SCALE	TP TURBIDITY PUMP
CW CITY WATER	OC ON CENTER	TYP TYPICAL
DF DIESEL FUEL	OD OUTSIDE DIAMETER	UG UNLEADED GAS
DFD DIESEL FUEL DISPENSER	OSD OPEN SITE DRAIN	UGD UNLEADED GAS DISPENSER
DFS DIESEL FUEL SUPPLY	OWS OIL/WATER SEPARATOR	UGP UNLEADED GAS PUMP
DI DROP INLET	P POLE	UGS UNLEADED GAS SUPPLY
DIA DIAMETER	PCHWR POTABLE CHILLED WATER	UND UNDERDRAIN
DIP DUCTILE IRON PIPE	PCHWS POTABLE CHILLED WATER	UNO UNLESS NOTED OTHERWISE UNDER
DN DOWN	PLATE PLATE	UP PAVEMENT
DP DIESEL PUMP	PI POINT OF INTERSECTION POST	V VENT
DWG DRAWING	PIV INDICATOR VALVE	VERT VERTICAL
ELEV ELEVATION	PL PLATE	VR VAPOR RECOVERY
EOP EDGE OF PAVEMENT	PRV PRESSURE REDUCING VALVE	VTR VENT THROUGH ROOF
EP ECCENTRIC REDUCER	PS PUMP STATION	W WATER
EX EXHAUST	PVC POLYVINYL CHLORIDE PIPE	W/ WITH
EXIST EXISTING	PVMT PAVEMENT	WCO WALL CLEAN OUT
EW EACH WAY		WHAM( ) WATER HAMMER ARRESTOR(SIZE)
F FIRE LINE		WLS WATER LEVEL SENSOR
FOO FLOOR CLEAN OUT		WP WEATHER PROOF (NEMA 3R)
FD FLOOR DRAIN		
FDV FIRE DEPT. VALVE		
FGCO FLUSH GRADE CLEAN OUT		
FH FIRE HYDRANT		
FI FUELING ISLAND		
FLG FLANGE		
FL FLOATING SUCTION		
FP FULL-PORT		
FW FIRE WATER		

# PIPING LEGEND

MAIN PROCESS PIPE LINE	TEMPERATURE GAUGE W/RANGE	
SECONDARY PROCESS OR UTILITY PIPE LINE	PRESSURE GAUGE W/ RANGE	
EXISTING MAIN PROCESS PIPE LINE	PRESSURE REGULATOR, (DOWNSTREAM) PILOT-OPERATED	
EXISTING SECONDARY PROCESS OR UTILITY PIPE LINE	INTEGRAL	
DOUBLE WALL PIPING	PRESSURE RELIEF VALVE WITH SETTING	
INSULATED LINE (OPTIONAL: TYPE-THICKNESS)	PRESSURE RELIEF VALVE (PLAN VIEW)	
STEAM OR LIQUID TRACED LINE	BLIND FLANGE	
JACKETED LINE	FLEXIBLE HOSE	
ELECTRIC TRACED LINE	HOSE BIBB	
EXISTING PROCESS OR UTILITY PIPE LINE	UNION	
FLANGE / TRICLOVER CONNECTION	WELD CAP	
UNION	CAP	
WELD CAP	REMOVABLE SWING PIECE (TRI-CLAMP)	
CAP	GATE VALVE	
REMOVABLE SWING PIECE (TRI-CLAMP)	BALL VALVE	
GATE VALVE	GLOBE VALVE	
BALL VALVE	NEEDLE VALVE	
GLOBE VALVE	BUTTERFLY VALVE	
NEEDLE VALVE	PLUG VALVE	
BUTTERFLY VALVE	CHECK VALVE (ARROW INDICATES FLOW)	
PLUG VALVE	3-WAY VALVE	
CHECK VALVE (ARROW INDICATES FLOW)	ANGLE VALVE	
3-WAY VALVE	DIAPHRAGM VALVE	
ANGLE VALVE	STOP CHECK (NON-RETURN)	
DIAPHRAGM VALVE	OPEN CHANNEL FLOW	
STOP CHECK (NON-RETURN)	FLOW DIRECTION	
OPEN CHANNEL FLOW	PIPE TURN DOWN	
FLOW DIRECTION	PIPE TURN UP	
PIPE TURN DOWN	RISE OR DROP	
PIPE TURN UP	TRAP	
RISE OR DROP	BRANCH-BOTTOM	
TRAP	BRANCH-TOP	
BRANCH-BOTTOM	BRANCH-SIDE	
BRANCH-TOP	INSULATING FLANGE	
BRANCH-SIDE	FLOAT VALVE/EXTRACTOR FITTING	
INSULATING FLANGE	TANK FILL CONNECTOR	
FLOAT VALVE/EXTRACTOR FITTING		
TANK FILL CONNECTOR		

# MECHANICAL NOTES

- PIPING NOTES:**
- THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR SCALE ALL OF THE MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL, AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. THE CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED, AND MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. THIS CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE FIELD MODIFICATION IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF VARIOUS TRADES OR PROPER EXECUTION OF THE WORK.
  - INSTALL MATERIALS AND EQUIPMENT IN A NEAT AND FIRST CLASS WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ITEMS WHICH, IN HIS OPINION, DO NOT PRESENT A NEAT AND WORKMANLIKE APPEARANCE. REMOVAL AND REPLACEMENT IS TO BE DONE IMMEDIATELY WHEN DIRECTED BY THE OWNER IN WRITING, AT THE SOLE EXPENSE OF THE CONTRACTOR.
  - PROVIDE MEANS "FURNISH AND INSTALL."
  - ALL SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE COMPLETED IN FULL FUNCTIONAL MANNER TO THE ACCEPTANCE OF THE OWNER.
  - SHOP DRAWINGS: THIS CONTRACTOR SHALL FURNISH THE ENGINEER WITH CUT SHEETS AND SHOP DRAWINGS OF EQUIPMENT PRIOR TO PURCHASE FOR APPROVAL.
  - CONTRACTOR SHALL PRESSURE TEST ALL NEW PIPING AS REQUIRED BY CODE. TEST SHALL BE WITNESSED AND APPROVED BY THE PROPER AUTHORITIES.
  - PROVIDE SHUTOFF VALVE FOR ALL EQUIPMENT CONNECTIONS.
  - WHEREVER DISSIMILAR METALS ARE TO BE JOINED, A DIELECTRIC FITTING SHALL BE PROVIDED TO CONNECT BOTH TYPES OF PIPE.
  - ALL EQUIPMENT, PIPING, AND APPURTENANCES SHALL BE PROTECTED FROM DEBRIS AND DAMAGE. SENSITIVE EQUIPMENT SHALL NOT BE DELIVERED TO THE JOB SITE UNTIL SUCH TIME AS IT IS TO BE INSTALLED. PIPING ENDS SHALL BE CLOSED BY TEMPORARY MEANS.
  - LOCATE ALL VALVES WHERE THEY ARE ACCESSIBLE FOR SERVICE AND USE.
  - PIPE SUPPORTS: PROVIDE PIPE SUPPORT TYPES, LOCATIONS, AND SPACING AS INDICATED. NOTE THAT WHILE NOT ALL PIPE SUPPORTS ARE SPECIFICALLY SHOWN ON PLANS, PIPE SUPPORT MINIMUM SPACING REQUIREMENTS SHALL GOVERN REQUIRED QUANTITY.
  - SINGLE LINE PIPING PLANS MAY NOT INDICATE ALL BENDS AND FITTINGS REQUIRED FOR INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF PIPE ROUTE AND COSTS ASSOCIATED WITH ADDITIONAL FITTINGS REQUIRED FOR PROPER INSTALLATION SHALL BE CONSIDERED AS PART OF THE BASE BID.

# REFERENCE LEGEND

<b>DETAIL IDENTIFICATION</b>	<b>MISC IDENTIFICATION</b>
SECTION OR DETAIL NUMBER	TYP. PIPING OR SUPPORT DETAIL
	CONNECT TO EXISTING
<b>TITLE</b>	DIRECTIONAL FLOW REFERENCE BLOCK
<b>SCALE: X"=X'-X"</b>	<b>INSTRUMENT IDENTIFICATION</b>
SHEET NUMBER	ITEM
<b>EQUIPMENT TAG NUMBER</b>	ITEM
EQUIPMENT TYPE	TAG OR LOOP NUMBER
SYSTEM NUMBER	LONG TAG OR LOOP NUMBER
EQUIPMENT NUMBER	<b>VALVE TAGGING SYSTEM</b>
<b>PIPING SERVICE TAGGING SYSTEM</b>	VALVE
12" PG CS-X	SIZE
LINE NUMBER	OPTION (C=CHAIN OPERATED)
MATERIAL	(W=WAFER STYLE)
PRODUCT OR SERVICE (SEE BELOW)	(S=STAINLESS STEEL CONSTRUCTION)
LINE SIZE	PRIMARY RATING (9=ANSI 900, 6=ANSI 600, 3=ANSI 300, 1=ANSI 150)
<b>PIPING SERVICE IDENTIFICATION</b>	END CONNECTION
AS AIR SUPPLY	F-FLANGED
BFW BOILER FEED WATER	W-BUTT WELD
CHWR CHILLED WATER RETURN	C-CHECK
CHWS CHILLED WATER SUPPLY	S-SCREWED
CR CONDENSATE RETURN	G-GATE
CW CITY WATER	F-BUTTERFLY (LUG STYLE)
HPR HIGH PRESSURE CONDENSATE	L-GLOBE
HPS HIGH PRESSURE STEAM	N-NEEDLE
ET FUEL	X-DOUBLE BLOCK AND BLEED
HWR HOT WATER RETURN	M-THROTTLING STOP CHECK
HWS HOT WATER SUPPLY	P-PLUG
LPR LOW PRESSURE CONDENSATE	
LPS LOW PRESSURE STEAM	
MPR MEDIUM PRESSURE CONDENSATE	
MPS MEDIUM PRESSURE STEAM	
SW SOFTENED WATER	
NGS NATURAL GAS SUPPLY	
FOS FUEL OIL SUPPLY	

# EQUIPMENT LEGEND

PUMP (STP), $XP-g$	FUEL DISPENSER $D-##$
PRESSURE/VACUUM VENT	

# MECHANICAL LEGEND, NOTES & ABBREVIATIONS

**PRIME ENGINEERING INCORPORATED**  
 315 NORTHSIDE PARKWAY NW  
 ATLANTA, GEORGIA 30327  
 404-257-1000

**PROJECT:** FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - #066 ROSWELL, GEORGIA  
**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

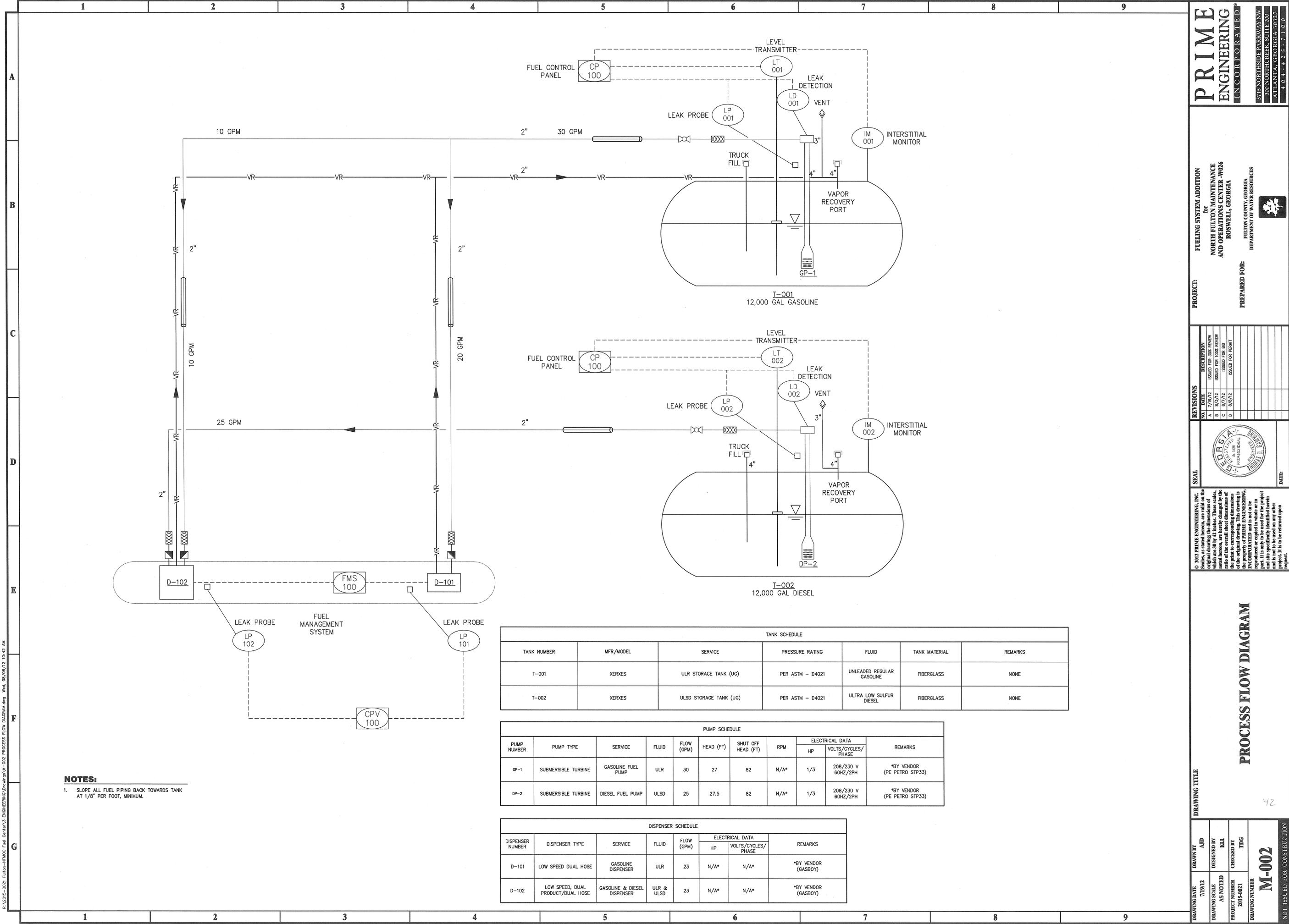
NO.	DATE	DESCRIPTION
A	7/19/12	ISSUED FOR 30% REVIEW
B	8/7/12	ISSUED FOR 10% REVIEW
C	8/7/12	ISSUED FOR BID
D	8/19/12	ISSUED FOR PERMIT

**SEAL:**   
**DATE:** 8/9/12

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**DRAWING TITLE:** MECHANICAL LEGEND, NOTES & ABBREVIATIONS

DRAWING DATE	DRAWN BY	DESIGNED BY	CHECKED BY
7/19/12	AJD	KLL	TDG
DRAWING SCALE	AS NOTED	PROJECT NUMBER	DRAWING NUMBER
		2015-0021	M-001



**NOTES:**  
 1. SLOPE ALL FUEL PIPING BACK TOWARDS TANK AT 1/8" PER FOOT, MINIMUM.

TANK SCHEDULE						
TANK NUMBER	MFR/MODEL	SERVICE	PRESSURE RATING	FLUID	TANK MATERIAL	REMARKS
T-001	XERXES	ULR STORAGE TANK (UG)	PER ASTM - D4021	UNLEADED REGULAR GASOLINE	FIBERGLASS	NONE
T-002	XERXES	ULSD STORAGE TANK (UG)	PER ASTM - D4021	ULTRA LOW SULFUR DIESEL	FIBERGLASS	NONE

PUMP SCHEDULE										
PUMP NUMBER	PUMP TYPE	SERVICE	FLUID	FLOW (GPM)	HEAD (FT)	SHUT OFF HEAD (FT)	RPM	ELECTRICAL DATA		REMARKS
								HP	VOLTS/CYCLES/PHASE	
GP-1	SUBMERSIBLE TURBINE	GASOLINE FUEL PUMP	ULR	30	27	82	N/A*	1/3	208/230 V 60HZ/2PH	*BY VENDOR (PE PETRO STP33)
GP-2	SUBMERSIBLE TURBINE	DIESEL FUEL PUMP	ULSD	25	27.5	82	N/A*	1/3	208/230 V 60HZ/2PH	*BY VENDOR (PE PETRO STP33)

DISPENSER SCHEDULE							
DISPENSER NUMBER	DISPENSER TYPE	SERVICE	FLUID	FLOW (GPM)	ELECTRICAL DATA		REMARKS
					HP	VOLTS/CYCLES/PHASE	
D-101	LOW SPEED DUAL HOSE	GASOLINE DISPENSER	ULR	23	N/A*	N/A*	*BY VENDOR (GASBOY)
D-102	LOW SPEED, DUAL PRODUCT/DUAL HOSE	GASOLINE & DIESEL DISPENSER	ULR & ULSD	23	N/A*	N/A*	*BY VENDOR (GASBOY)

**PRIME ENGINEERING INCORPORATED**  
 275 NORTH DEKALB AVENUE  
 SUITE 200  
 ATLANTA, GEORGIA 30327  
 404.425.7100

**PROJECT:** FUELING SYSTEM ADDITION for NORTH FILTIONS MAINTENANCE AND OPERATIONS CENTER #026 ROSWELL, GEORGIA  
**PREPARED FOR:** FILTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
A	7/19/12	ISSUED FOR BIDDING
B	8/2/12	ISSUED FOR BIDDING
C	8/7/12	ISSUED FOR BIDDING
D	8/9/12	ISSUED FOR BIDDING

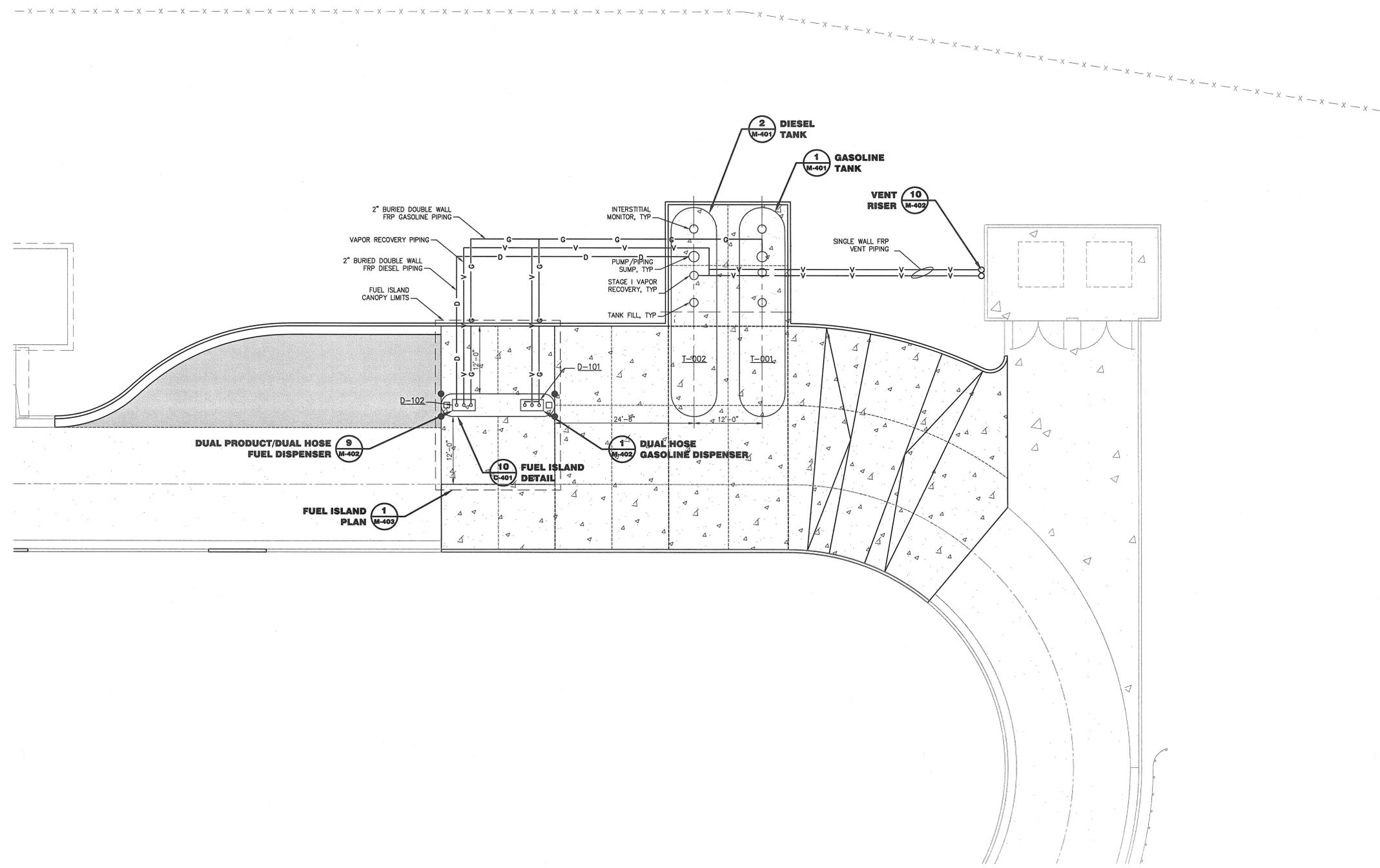


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**PROCESS FLOW DIAGRAM**

<b>DRAWING DATE</b> 7/19/12	<b>DRAWN BY</b> AJD	<b>DESIGNED BY</b> KLL	<b>CHECKED BY</b> TDG
<b>DRAWING SCALE</b> AS NOTED	<b>PROJECT NUMBER</b> 2012-001	<b>DRAWING NUMBER</b> M-002	<b>NOT ISSUED FOR CONSTRUCTION</b>

R:\2015-0021 Fulton-WFAC Fuel Center\3 ENGINEERING\Drawings\M-101 FUELING PIPING PLAN.dwg Wed, 05/09/12 10:42 AM



**NOTES:**  
 1. CONFIRM UTILITY CONNECTION LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.

**PRIME ENGINEERING INCORPORATED**  
 115 NORTH HUNTER DRIVE, LAWRENCEVILLE, GA 30046  
 770.962.8888  
 404-425-7100

**PROJECT:** FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER -W026 ROSWELL, GEORGIA  
**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
A	7/19/12	ISSUED FOR 30% REVIEW
B	8/2/12	ISSUED FOR 100% REVIEW
C	8/7/12	ISSUED FOR BID
D	8/9/12	ISSUED FOR PERMIT

**SEAL:** [Professional Engineer Seal for Georgia, License No. 10000, Name: T. J. ...]  
**DATE:** 8/9/12

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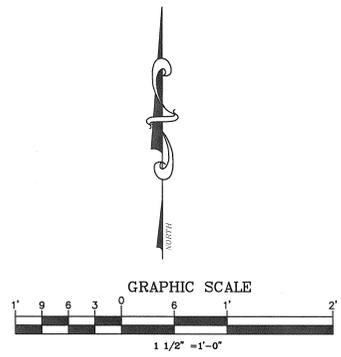
**DRAWING TITLE**  
**FUELING PIPING PLAN**

**DRAWING NUMBER**  
**M-101**

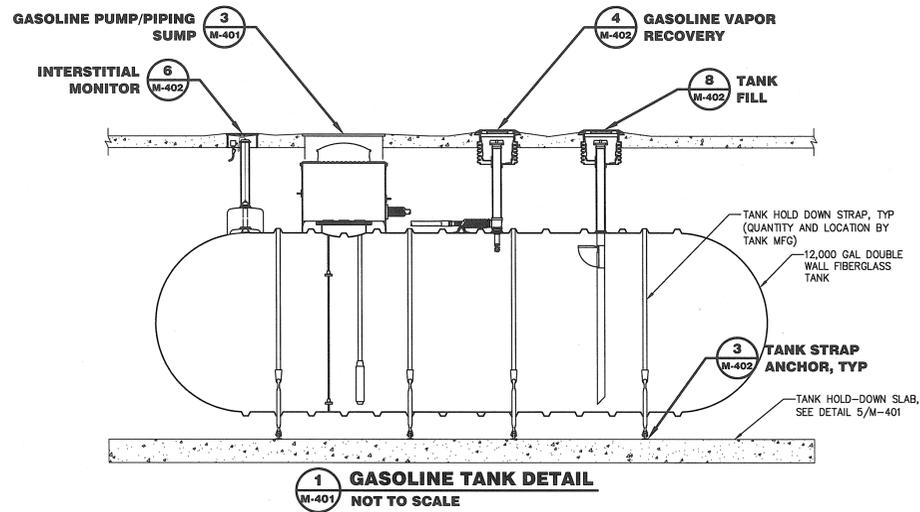
**DRAWN BY:** AJD  
**DESIGNED BY:** KLL  
**CHECKED BY:** TDG

**DRAWING DATE:** 7/19/12  
**DRAWING SCALE:** AS NOTED  
**PROJECT NUMBER:** 2015-0021

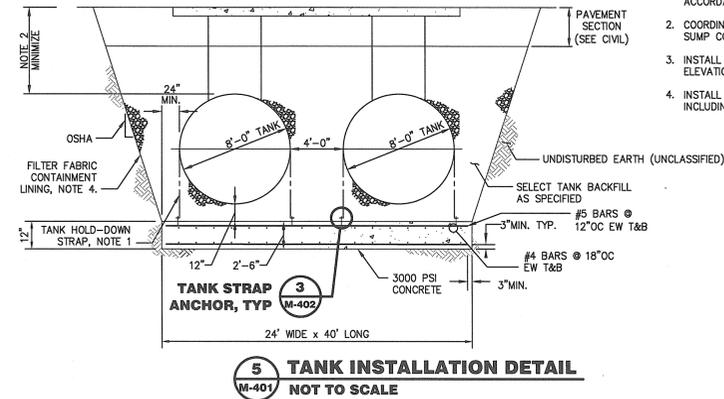
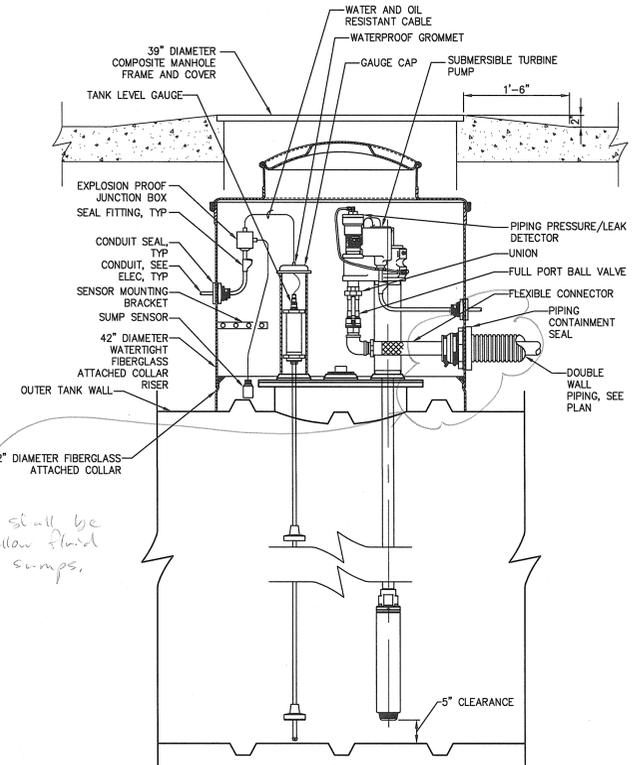
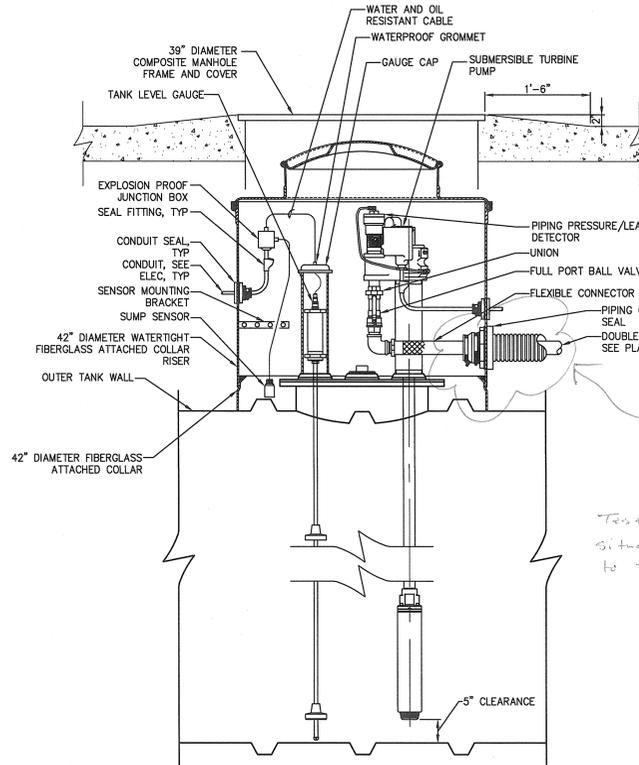
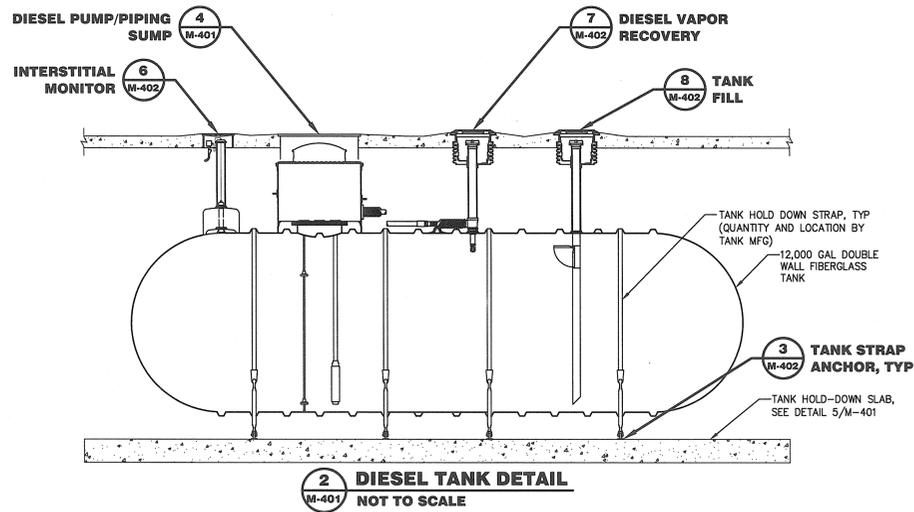
**NOT ISSUED FOR CONSTRUCTION**



R:\2015-0021 Fulton-NMOC Fuel Center\3 ENGINEERING\Drawings\M-401 FUELING DETAILS - SHEET 1.dwg Wed, 08/08/12 10:42 AM



Provide certification that the tank installation is in accordance with the requirements of NFPA #30 and the tank manufacturers installation instruction.



- NOTES:
1. PROVIDE QUANTITY AND LOCATIONS OF TANK HOLD-DOWN STRAPS IN ACCORDANCE WITH MANUFACTURE'S PRINTED INSTRUCTIONS.
  2. COORDINATE TANK DEPTH WITH PIPING AND PIPE CONTAINMENT SUMP COVER REQUIREMENTS.
  3. INSTALL ALL TANKS SO THAT TOPS OF ALL TANKS ARE AT THE SAME ELEVATION.
  4. INSTALL FILTER FABRIC COMPLETELY AROUND TANK BACKFILL INCLUDING TOP AREA.

PROJECT: FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - #026 ROSWELL, GEORGIA  
 PREPARED FOR: FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
A	7/19/12	ISSUED FOR BIDDING
B	8/2/12	ISSUED FOR BIDDING
C	8/7/12	ISSUED FOR BIDDING
D	8/9/12	ISSUED FOR BIDDING

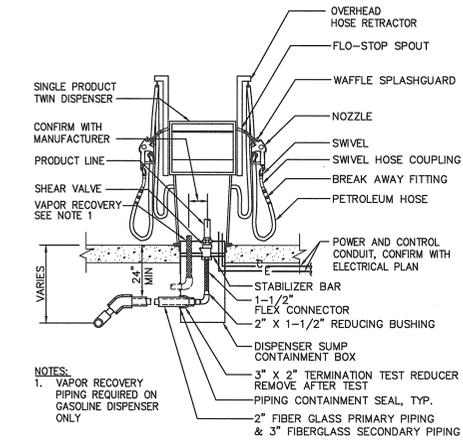


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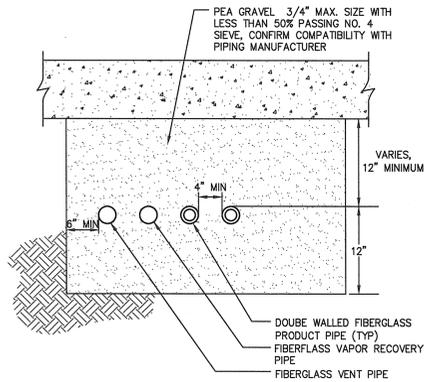
DRAWING TITLE: FUELING DETAILS - SHEET 1  
 DRAWING NUMBER: M-401  
 DRAWN BY: AJD  
 DESIGNED BY: KLL  
 CHECKED BY: TDG  
 PROJECT NUMBER: 2015-0021

NOT ISSUED FOR CONSTRUCTION

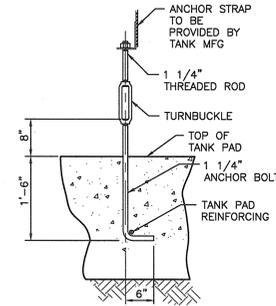
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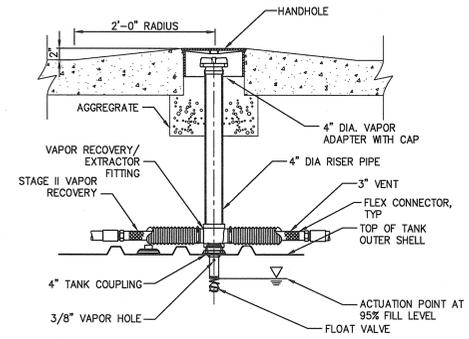
**1 DUAL HOSE GASOLINE DISPENSER DETAIL**  
NOT TO SCALE



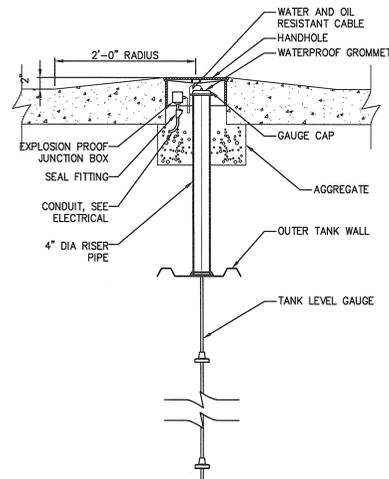
**2 TYPICAL PIPING DETAIL**  
NOT TO SCALE



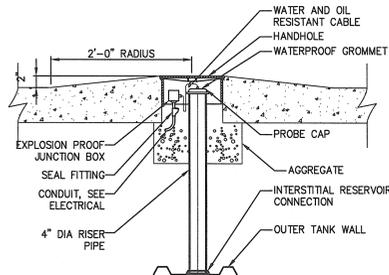
**3 TANK STRAP ANCHOR DETAIL**  
NOT TO SCALE



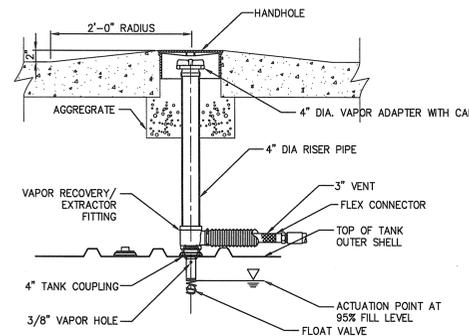
**4 GASOLINE VAPOR RECOVERY DETAIL**  
NOT TO SCALE



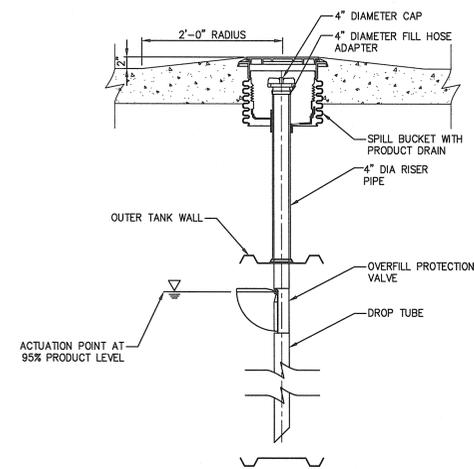
**5 LEVEL GAUGE**  
NOT TO SCALE



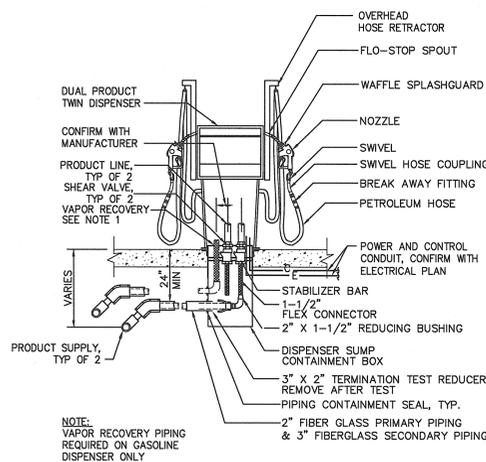
**6 INTERSTITIAL MONITOR DETAIL**  
NOT TO SCALE



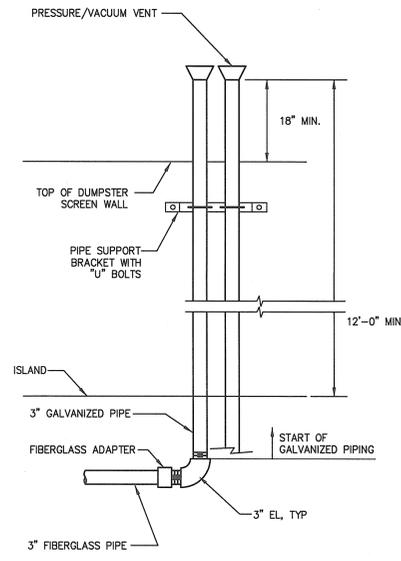
**7 DIESEL VAPOR RECOVERY DETAIL**  
NOT TO SCALE



**8 TANK FILL DETAIL**  
NOT TO SCALE



**9 DUAL PRODUCT/DUAL HOSE FUEL DISPENSER DETAIL**  
NOT TO SCALE



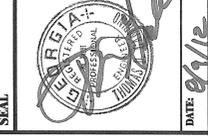
**10 VENT RISER DETAIL**  
NOT TO SCALE

**PRIME ENGINEERING**  
INCORPORATED  
5715 NORTHSIDE PARKWAY NW  
PO BOX 1000  
ATLANTA, GEORGIA 30328  
404-425-7100

**PROJECT:**  
FUELING SYSTEM ADDITION  
for  
NORTH FULTON MAINTENANCE  
AND OPERATIONS CENTER - #026  
ROSWELL, GEORGIA  
FULTON COUNTY, GEORGIA  
DEPARTMENT OF WATER RESOURCES

**PREPARED FOR:**

NO.	DATE	DESCRIPTION
A	7/16/12	ISSUED FOR SOX REVIEW
B	8/9/12	ISSUED FOR 100% REVIEW
C	8/7/12	ISSUED FOR BID
D	9/6/12	ISSUED FOR PERMIT



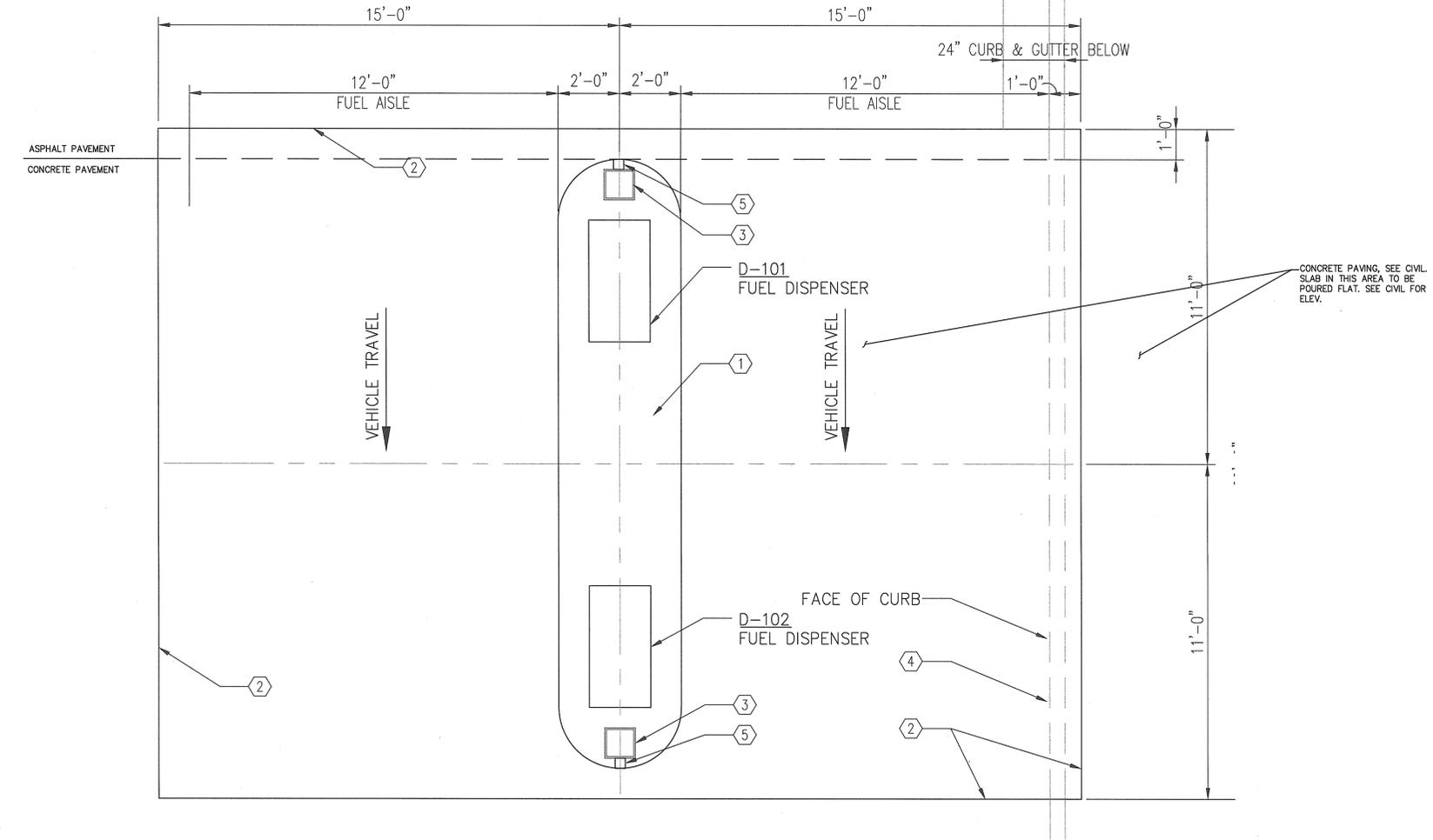
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**FUELING DETAILS - SHEET 2**

DRAWING DATE	DRAWN BY	DESIGNED BY	PROJECT NUMBER	DRAWING NUMBER
7/19/12	AJD	KLL	2015-0021	M-402
DRAWING SCALE	AS NOTED	CHECKED BY	TDC	

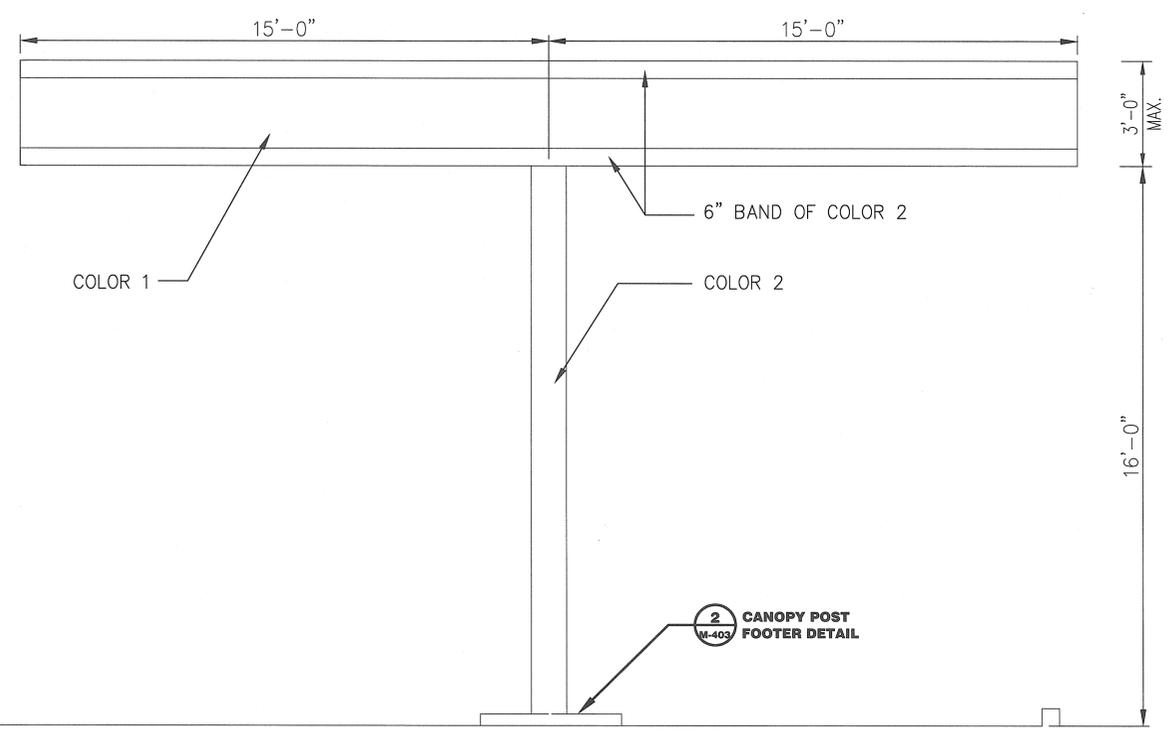
NOT ISSUED FOR CONSTRUCTION

R:\2015-0021 Fulton-NEMDC Fuel Center\3 ENGINEERING\Drawings\M-403 CANOPY AND GAS ISLAND PLAN AND ELEVATION.dwg Wed, 08/09/12 10:42 AM

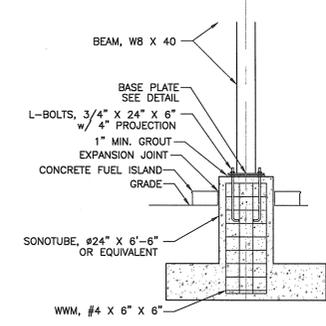


- KEY NOTES:**
- ① CONC FUEL ISLAND, SEE C-401 FOR DETAILS
  - ② CANOPY ABOVE
  - ③ STEEL SUPPORT COLUMN, SIZE BY CANOPY MANUFACTURER.
  - ④ LIMITS OF CONC PAVING PAD. SEE CIVIL DRAWINGS FOR SLOPES, ELEVATIONS, AND DETAILS.
  - ⑤ ROOF DRAIN
- NOTES:**
1. THE FUEL ISLAND CANOPY SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE REQUIREMENTS OF TECHNICAL SPECIFICATIONS SECTION 10730-CANOPIES.

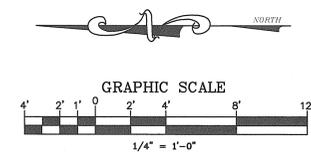
**1 FUEL ISLAND PLAN**  
SCALE: 1/4" = 1'-0"



**2 WEST ELEVATION**  
SCALE: 1/4" = 1'-0"



**2 CANOPY POST FOOTER DETAIL**  
SCALE: NOT TO SCALE



**PRIME ENGINEERING INCORPORATED**  
215 NORTH DEKALB AVENUE  
SUITE 200  
ATLANTA, GEORGIA 30327  
404-425-7100

**PROJECT:** FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - W026 ROSWELL, GEORGIA

**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF WATER RESOURCES

NO.	DATE	DESCRIPTION
A	7/19/12	ISSUED FOR BIDDING
B	8/2/12	ISSUED FOR BIDDING
C	8/7/12	ISSUED FOR BIDDING
D	8/9/12	ISSUED FOR PERMIT

**SEAL:** [Professional Engineer Seal]

DATE: 8/9/12

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**DRAWING TITLE**

**CANOPY AND GAS ISLAND PLAN AND ELEVATION**

46

DRAWING DATE	7/19/12	DRAWN BY	AJD
DRAWING SCALE	AS NOTED	DESIGNED BY	KLL
PROJECT NUMBER	2015-0021	CHECKED BY	TDG
DRAWING NUMBER	<b>M-403</b>		

NOT ISSUED FOR CONSTRUCTION

# ELECTRICAL LEGEND

- WIRING IN CONDUIT HOMERUN IN PANEL. TIC MARKS INDICATE QUANTITY OF CONDUCTORS. NO TIC MARKS INDICATES 2#12, 1#12G, 1/2", UNLESS OTHERWISE NOTED. EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON RACEWAY SYMBOL; HOWEVER, PROVIDE EACH RACEWAY WITH A GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH N.E.C. TABLE 250-95, UNLESS OTHERWISE INDICATED.
- WIRING IN CONDUIT INSTALLED CONCEALED IN CEILING AND/OR WALL, OR EXPOSED IN UNFINISHED AREAS.
- WIRING IN CONDUIT INSTALLED CONCEALED IN FLOOR AND/OR WALL.
- JUNCTION BOX, CEILING OR WALL MOUNTED.
- JUNCTION BOX, FLOOR MOUNTED.
- H.I.D. POLE TOP MOUNTED LUMINAIRE.
- H.I.D. SURFACE MOUNTED LUMINAIRE.
- EXIT FIXTURE WITH EMERGENCY BATTERY PACK, CEILING MOUNTED.
- EMERGENCY BATTERY PACK FIXTURE, CEILING OR WALL MOUNTED, AS INDICATED.
- SINGLE POLE SWITCH, 4-0" A.F.F.  
 S<sub>1</sub> - THREE-WAY SWITCH, 4-0" A.F.F.  
 S<sub>2</sub> - DIMMER SWITCH, 4-0" A.F.F., EQUAL TO LUTRON #N-2000. (TWO-GANG BOX)  
 S<sub>3</sub> - SINGLE POLE SWITCH WITH PILOT LIGHT, 4-0" A.F.F.
- INBOARD / OUTBOARD SWITCHING. - INTERIOR LAMP(S) OF LUMINAIRE ON ONE SWITCH; EXTERIOR LAMP(S) OF LUMINAIRE ON THE OTHER.
- DUPLEX RECEPTACLE, 15A, 120V., 18" A.F.F., UNLESS OTHERWISE NOTED, EQUAL TO HUBBELL #5252.  
 GFI - GROUND FAULT INTERRUPTER, 48" AFF, EQUAL TO HUBBELL #GFI-5252  
 IG - ISOLATED GROUND, 20A, 18" AFF, EQUAL TO HUBBELL #5362IG  
 WP - GROUND FAULT INTERRUPTER, WEATHERPROOF DEVICE PLATE, 24" AFF, EQUAL TO HUBBELL #GFI-5252-WP  
 20A - DUPLEX RECEPTACLE, 20A, 18" AFF., EQUAL TO HUBBELL #5362  
 OC - "OVER COUNTER" MOUNTING - REVIEW ARCHITECTURAL DRAWINGS AND COORDINATE ACTUAL MOUNTING HEIGHT WITH COUNTER MOUNTING HEIGHT. MOUNT HORIZONTALLY SUCH THAT BOTTOM OF DEVICE IS 6" ABOVE COUNTER TOP BACKSPASH.
- TWO DUPLEX RECEPTACLES UNDER COMMON PLATE, 18" A.F.F., EQUAL TO HUBBELL #5252.
- TELEPHONE/DATA OUTLET BOX, 18" A.F.F., WITH 3/4" STUBBED ABOVE CEILING.
- TELEPHONE/DATA FLOOR MOUNTED OUTLET BOX, WITH 3/4" STUBBED ABOVE CEILING. PROVIDE EITHER FIRE-RATED POKE-THROUGH DEVICE OR TRENCH FLOOR SLAB, AS REQUIRED.
- 120V, MOV, MOTOR OPERATED VALVE
- 120V, DISCRETE CONTROL DEVICE
- SIGNAL DEVICE ANALOG (4-20mA)
- POWER CONNECTION
- MOTOR, SIZE AS NOTED.
- MOTOR STARTER/CONTROLLER.
- DISCONNECT SWITCH, AMPACITY/POLES/ENCLOSURE/FUSING AS NOTED.
- PANELBOARD.
- TRANSFORMER.
- RT, WP, 3R INDICATES RAIN/TIGHT, WEATHERPROOF, NEMA-3R.

# ABBREVIATIONS

- A AMPERES
- AC ALTERNATING CURRENT
- AMP FRAME
- AFB ABOVE FINISHED FLOOR
- AIC AMPS INTERRUPTING CURRENT
- AG ABOVE GROUND
- APPROX APPROXIMATELY
- AT AMP TRIP
- ATS AUTOMATIC TRANSFER SWITCH
- AUX AUXILIARY
- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- CATH CATHODIC
- CB CIRCUIT BREAKER
- CONC CONCRETE
- CU COPPER
- DP DISTRIBUTION PANEL
- DC DIRECT CURRENT
- DIA DIAMETER
- DM DIVISION
- DWG DRAWING
- EACH EACH
- EC EMPTY CONDUIT
- EMER EMERGENCY
- EMER FUEL SHUTOFF
- ESD EMERGENCY POWER SHUTDOWN
- EXP EXPLOSION PROOF
- FLA FULL LOAD AMPS
- FS FLOW SWITCH
- FT FLOW TRANSMITTER
- FU FUSE
- GALV GALVANIZED
- GEN GENERATOR
- GFI GROUND FAULT INTERRUPTER
- GND GROUND
- GRS GALVANIZED RIGID STEEL
- HAZ HAZARDOUS
- HOA HAND-OFF-AUTO
- HP HORSE POWER
- HZ HERTZ
- I/O INPUT/OUTPUT
- JUNCTION BOX
- KVA KILOVOLT AMPERE
- KW KILOWATT
- LC LIGHTING CONTACTOR
- LS LEVEL SWITCH
- LT LEVEL TRANSMITTER
- MLAMP MILLIAMPERE
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MDP MAIN DISTRIBUTION PANEL
- MLO MAIN LUGS ONLY
- MAX MAXIMUM
- MIN MINIMUM
- MOV MOTOR OPERATED VALVE
- MSB MAIN SWITCHBOARD
- NEUT NEUTRAL
- NATIONAL ELECTRIC CODE
- NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NON FUSED
- NC NORMALLY CLOSED
- NIC NOT IN CONTRACT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- P POLE, PHASE
- PROVIDE FURNISH, INSTALL & CONNECT
- OSHA OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
- ON CENTER
- PB PULL BOX
- PLC PROGRAMMABLE LOGIC CONTROLLER
- RT RAIN TIGHT
- S SOLENOID
- SN 4-20mA signal device
- SW SWITCH
- SWB SWITCHBOARD
- T TRANSFORMER
- TEL TELEPHONE
- TSP TWISTED SHIELDED PAIR
- TYP TYPICAL
- UG UNDERGROUND
- UPS UNINTERRUPTIBLE POWER SUPPLY
- UL UNDERWRITERS LABORATORIES, INC.
- V VOLTS
- VAC VOLTS, ALTERNATING CURRENT
- VDC VOLTS, DIRECT CURRENT
- VSD VARIABLE SPEED DRIVE
- W WATT
- WC WORKING CLEARANCE
- WP WEATHERPROOF
- XFMR TRANSFORMER
- PHASE
- SP SINGLE POLE
- DP DOUBLE POLE
- 3P THREE POLE

# ELECTRICAL GENERAL NOTES

- REMOVE POWER TO ALL ELECTRICAL EQUIPMENT PRIOR TO INSTALLING WIRING OR SERVICING EQUIPMENT. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR REMOVING POWER FROM ALL EQUIPMENT. LOCKOUT ALL POWER SOURCES FROM ELECTRICAL EQUIPMENT PRIOR TO SERVICING IN ACCORDANCE WITH OSHA REGULATIONS.
- VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO INSTALLATION. COORDINATION IS REQUIRED BETWEEN ALL CONTRACTORS.
- INSTALL ALL WIRING PER MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR MUST VERIFY ALL REQUIREMENTS, DIMENSIONS, CLEARANCES. ALL WIRING SHALL CONFORM TO 2011 EDITION OF THE NEC (NFPA 70) AND ALL LOCAL CODES. THE ENGINEER MAKES NO GUARANTEES AS TO THE ACCURACY OF THE INFORMATION CONTAINED IN THE DOCUMENTS.
- ALL UNDERGROUND CONDUIT SHALL BE INSTALLED A MINIMUM OF 36" BELOW FINISHED GRADE UNLESS INDICATED ELSEWHERE ON THE DRAWINGS. THE CONTRACTOR SHALL CALL ALL APPROPRIATE LOCATING AND REPORTING AUTHORITIES PRIOR TO DIGGING TO OBTAIN PERMITS AS REQUIRED BY STATE AND LOCAL LAWS AND REGULATIONS.
- BOTH THE CONTRACTOR AND INSTALLING MECHANIC ARE REMINDED THAT SINCE THE NATIONAL ELECTRICAL CODE IS BY STATUTORY INCLUSION A PART OF THE LAWS OF THE STATE, THEY BEAR A PRIME RESPONSIBILITY TO COMPLY WITH IT EVEN WHEN THE PLANS OR SPECIFICATIONS DENOTE AN APPARENT VIOLATION. THIS SHOULD BE OBSERVED CAREFULLY AND CONTINUOUSLY, PARTICULARLY DURING ESTIMATING FOR PROPOSAL, AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- THE ELECTRICAL CONTRACTOR SHALL MAINTAIN, ON THE SITE, AN ADEQUATE ADMINISTRATIVE SPACE WHERE ONE COMPLETE SET OF PLANS AND SPECIFICATIONS SHALL BE KEPT FOR THE WORK OF ALL TRADES ON THE PROJECT. THESE PLANS AND SPECIFICATIONS SHALL BE IN ADDITION TO THE SETS USED BY THE INSTALLING MECHANICS IN CARRYING OUT THEIR DAY-TO-DAY WORK ON THE PROJECT. THE PROJECTED LOCATION OF EVERY OUTLET, RACEWAY, OR ITEM OF EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT SHALL BE CHECKED AGAINST THE PLANS AND SPECIFICATIONS OF ALL THE OTHER TRADES AS WELL AS BY DAILY CONFERENCE WITH WORKMEN AND SUPERVISORS OF ALL OTHER TRADES TO THE EXTENT THAT ANY CONFLICTS OR UNCERTAINTIES ABOUT LOCATIONS ARE RESOLVED BEFORE WORK IS INSTALLED, PARTICULARLY WITH REGARD TO THE INTERACTION OF LIGHTING FIXTURES, AIR HANDLING OPENINGS, ACCESS DOORS, SPRINKLER HEADS, ETC. CEILING CONSTRUCTION INSTALLATION SHALL BE MADE IN ACCORD WITH REFLECTED CEILING PLANS AND/OR INSTRUCTIONS BY THE ARCHITECT'S REPRESENTATIVES ON THE SITE. MOVING OF ITEMS FROM LOCATIONS SHOWN, REROUTING, OR CHANGES TO ACCOMPLISH ANY WORK AS SHOWN ON PLANS OR SPECIFICATIONS IN ORDER TO ACCOMPLISH THIS COORDINATION SHALL NOT BE CAUSE FOR CLAIM FOR ADDITIONAL COMPENSATION FOR THE WORK.
- CONTRACTOR SHALL ALSO MAINTAIN AT THE SITE A COMPLETE SET OF ALL SHOP DRAWINGS, FIXTURE AND EQUIPMENT CUTS, MANUFACTURER'S WIRING DIAGRAMS AND INSTALLATION DATA. INSTALLING PERSONNEL SHALL STUDY THIS DATA BEFORE AND DURING INSTALLATION AND ROUGH-IN SO AS TO PREPARE FOR THE PROPER FIT AND FUNCTION UPON COMPLETION.
- COMPLETE AND ADEQUATE HOUSING SHALL BE PROVIDED ON THE SITE FOR ORDERLY AND CAREFUL STORAGE OF ALL MATERIALS AND EQUIPMENT. NOTHING SHALL BE STORED WHERE EXPOSED TO WEATHER EXCEPT CONDUIT, WHICH MAY BE STORED IN RACKS SO IT IS AT LEAST 12 INCHES ABOVE GROUND AND NOT SUBJECT TO MUDD BEING SPATTERED ON IT.
- ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING BUT NOT LIMITED TO, BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, AND TRANSFORMER LUGS, SHALL BE RATED FOR USE WITH 75 DEGREE CONDUCTORS SIZED IN ACCORDANCE WITH NETA 310-19.
- ALL RACEWAYS SHALL BE METAL UNLESS SPECIFICALLY NOTED OR APPROVED OTHERWISE. ANY RACEWAY IN POURED CONCRETE SHALL BE RIGID METAL (HEAVY WALL). REFER TO SPECIFICATIONS FOR ALL OTHERS.
- CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION. CONFIRMATION OF TESTS, CONFIRMATION SHALL BE SENT TO THE ENGINEER OF RECORD, BUILDING STANDARDS DEPT, AND THE FIRE MARSHAL IN THE FORM OF A LETTER STATING THE TESTS PERFORMED, THE RESULTS, AND THE DATE TESTS WERE SUCCESSFULLY COMPLETE. "LIFE SAFETY" EQUIPMENT AND SYSTEMS CONSIST OF THOSE AS SPECIFIED IN NFPA 101, NFPA 99, AND THE STATE BUILDING CODE (FIRE ALARM AND EMERGENCY POWER SYSTEMS).
- ALL METAL PORTIONS AND DEVICES OF ELECTRICAL EQUIPMENT, METAL RACEWAYS, METAL EQUIPMENT ENCLOSURES, AND ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE CONNECTED TO GROUND THROUGH A LOW IMPEDANCE PATH.
- BONDING TYPE BUSHINGS AND GROUNDING CONDUCTORS ARE TO BE USED EXCLUSIVELY ON THIS PROJECT FOR ANY CONDUIT RUN USED FOR POWER (NON-CONTROL).
- MATERIAL FURNISHED SHALL BE NEW. MATERIALS SHALL BE A MANUFACTURER'S STANDARD AND ESTABLISHED PRODUCT LINE, AND SHALL BE LISTED AND LABELED FOR THE APPLICATION BY UNDERWRITERS LABORATORIES (U.L.).
- ELECTRICAL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED BY CODE AND CONSISTENT WITH THE COLOR CODING FOR THE EXISTING FACILITY.
- ELECTRICAL SYSTEMS, EQUIPMENT, AND SUPPORTING STRUCTURES SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED. BONDING JUMPERS SHALL BE PROVIDED AT ALL ELECTRICAL RACEWAY JOINTS AND TERMINATIONS. METAL ELECTRICAL RACEWAYS AND FITTINGS, JOINTS AND CONNECTIONS AT EQUIPMENT SHALL BE MECHANICALLY AND ELECTRICALLY SECURED TO PROVIDE AN APPROVED EQUIPMENT OR ENCLOSURE GROUNDING MEANS, EVEN WHEN NO OTHER SEPARATE GROUNDING MEANS ARE ALSO PROVIDED EITHER INHERENTLY OR BY BONDING.
- WHERE GREEN GROUNDING CONDUCTORS ARE NOT INDICATED SPECIFICALLY FOR EACH BRANCH CIRCUIT BY THE DRAWINGS, PROVIDE FOR EACH RACEWAY A GREEN #12 GROUNDING CONDUCTOR, OR OF APPROPRIATE SIZE, IN ADDITION TO BRANCH CIRCUIT CONDUCTORS INDICATED.
- CONDUIT PLANS AND ELEVATIONS ARE SHOWN HERE FOR GENERAL INTENT FOR COMPLIANCE WITH CLASSIFIED AREAS. CONTRACTOR SHALL MEET ALL CODE REQUIREMENTS FOR CLASSIFIED AREAS.
- INTRINSICALLY SAFE AND NON-INTRINSICALLY SAFE WIRING MUST ALWAYS BE SEPARATED AND RUN IN SEPARATE CONDUIT.

# HAZARDOUS AREA WIRING NOTES

- AREA CLASSIFICATION ARE BASED ON N.F.P.A. 70 (2005 N.E.C.), UNLESS OTHERWISE NOTED HERE OR AS REQUIRED BY THE N.E.C. REFER TO SHEET E302 FOR HORIZONTAL BOUNDARIES OF AREA CLASSIFICATIONS. ALL ELECTRICAL EQUIPMENT, DEVICES, APPARATUS, SWITCHGEAR, AND THE LIKE INSTALLED IN AN AREA THAT IS CLASSIFIED ON THIS SITE SHALL BE SUITABLE FOR THAT USE.
- SEALS REQUIRED WHERE CONDUITS PASS FROM HAZARDOUS TO NON HAZARDOUS AREA, PER NEC 501.5(A)(4).
- SEALS REQUIRED WITHIN 18 INCHES OF ALL ARCING DEVICES, PER NEC 501.5(A)(1).
- SEALS REQUIRED IF CONDUIT IS 2 INCHES OR LARGER, PER NEC 501.5(A)(1).
- ALL BOXES MUST BE EXPLOSION PROOF AND THREADED FOR RIGID OR IMC CONDUIT, PER NEC 501.4(A).
- PUSH-BUTTON STATIONS MUST BE EXPLOSION PROOF, PER NEC 501.6(A).
- BREATHERS AND DRAINS NEEDED IN ALL HUMID LOCATIONS, PER NEC 501.4(F)(1).
- ALL JOINTS AND FITTINGS MUST BE EXPLOSION PROOF, PER NEC 501.4(A).
- FLEXIBLE CONNECTIONS MUST BE EXPLOSION PROOF, PER NEC 501.4(A).
- RECEPTACLES AND PLUGS MUST BE EXPLOSION PROOF AND PROVIDE GROUNDING CONNECTIONS FOR PORTABLE DEVICES, PER NEC 501.12.

# SPECIAL EQUIPMENT CONNECTION

- GENERAL :
- A. CONTRACTOR SHALL VERIFY LOCATIONS OF OUTLETS WITH ALL OTHER TRADES AND OWNER'S EQUIPMENT SUPPLIER. VERIFY PROPER CONNECTIONS AND CIRCUIT SIZES WITH EQUIPMENT SHOP DRAWINGS PRIOR TO ROUGH-IN CONTACT ENGINEER CONCERNING ANY DISCREPANCIES FOUND OR CONFLICTS THAT CANNOT BE RESOLVED ON THE JOB SITE. ELECTRICAL CONTRACTOR SHALL MAKE ALL CONNECTIONS UNLESS NOTED OTHERWISE.
- B. MAKE ALL CONNECTIONS TO MOTORS OR MOTORIZED UNITS USING FLEX (EXP PROOF WHERE REQUIRED) TO ISOLATE RACEWAY SYSTEM FROM UNIT VIBRATIONS. FLEX SHALL CONTAIN A CODE SIZED INSULATED GROUNDING CONDUCTOR.
- C. BREAKER, FUSE AND WIRE SIZES ARE BASED ON CATALOG DATA FROM MANUFACTURER OF EQUIPMENT SPECIFIED. NAMEPLATE DATA ON EQUIPMENT ACTUALLY FURNISHED MAY DIFFER. CONTRACTOR SHALL PROVIDE ELECTRICAL COMPONENTS IN COMPLIANCE WITH NAMEPLATE REQUIREMENTS. NOTIFY ENGINEER OF ANY DIFFERENCES PRIOR TO INSTALLATION. USE CLASS R DUAL ELEMENT FUSES SIZED PER UNIT NAMEPLATE.
- D. ALL STARTERS AND COMBINATION DISCONNECT/STARTERS, WHETHER SEPARATE OR IN MOTOR CONTROL CENTER, SHALL BE EQUIPPED WITH H-O-A-SWITCHES AND PILOT LIGHTS IN COVER. CONTROL TRANSFORMER WITH 120VOLT FUSED SECONDARY, AND 2 SETS OF AUXILIARY CONTACTS FOR USE BY CONTROLS CONTRACTOR. STARTER COILS SHALL BE SUPPLIED WITH VOLTAGE TO MATCH THAT REQUIRED BY CONTROLS SYSTEM. COORDINATE CLOSELY WITH MECHANICAL CONTRACTOR.

# COLOR CODES

CONDUCTOR COLOR CODING CHART		
120/208V SYSTEMS	DA	BLACK
	DB	RED
	DC	BLUE
277/480V SYSTEMS PHASE COND	DA	BROWN
	DB	ORANGE
	DC	YELLOW
NEUTRAL	WHITE OR GREY	
GROUNDING	GREEN	
ISOLATED GROUNDING	STRIPED GRN/YELLOW	

**PRIME ENGINEERING**  
INCORPORATED

3715 NORTHSIDE PARKWAY NW  
300 NORTHERBEE SUITE 200  
ATLANTA, GEORGIA 30327  
404.425.7100

PROJECT: FUELING SYSTEM ADDITION  
for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER -W02  
KOSWELL, GEORGIA

PREPARED FOR: FULTON COUNTY, GEORGIA  
DEPARTMENT OF PUBLIC WORKS  
WATER SERVICES DIVISION

REVISIONS

NO.	DATE	DESCRIPTION
A	8/2/2012	ISSUED FOR 100% REVIEW
B	8/7/2012	ISSUED FOR BID
C	8/7/2012	ISSUED FOR PERMITS

SCALE: AS SHOWN

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SEAL: [Professional Engineer Seal]

ELECTRICAL LEGEND, NOTES & ABBREVIATIONS

DRAWING TITLE: ELECTRICAL LEGEND, NOTES & ABBREVIATIONS

DRAWING DATE: 7/12/12

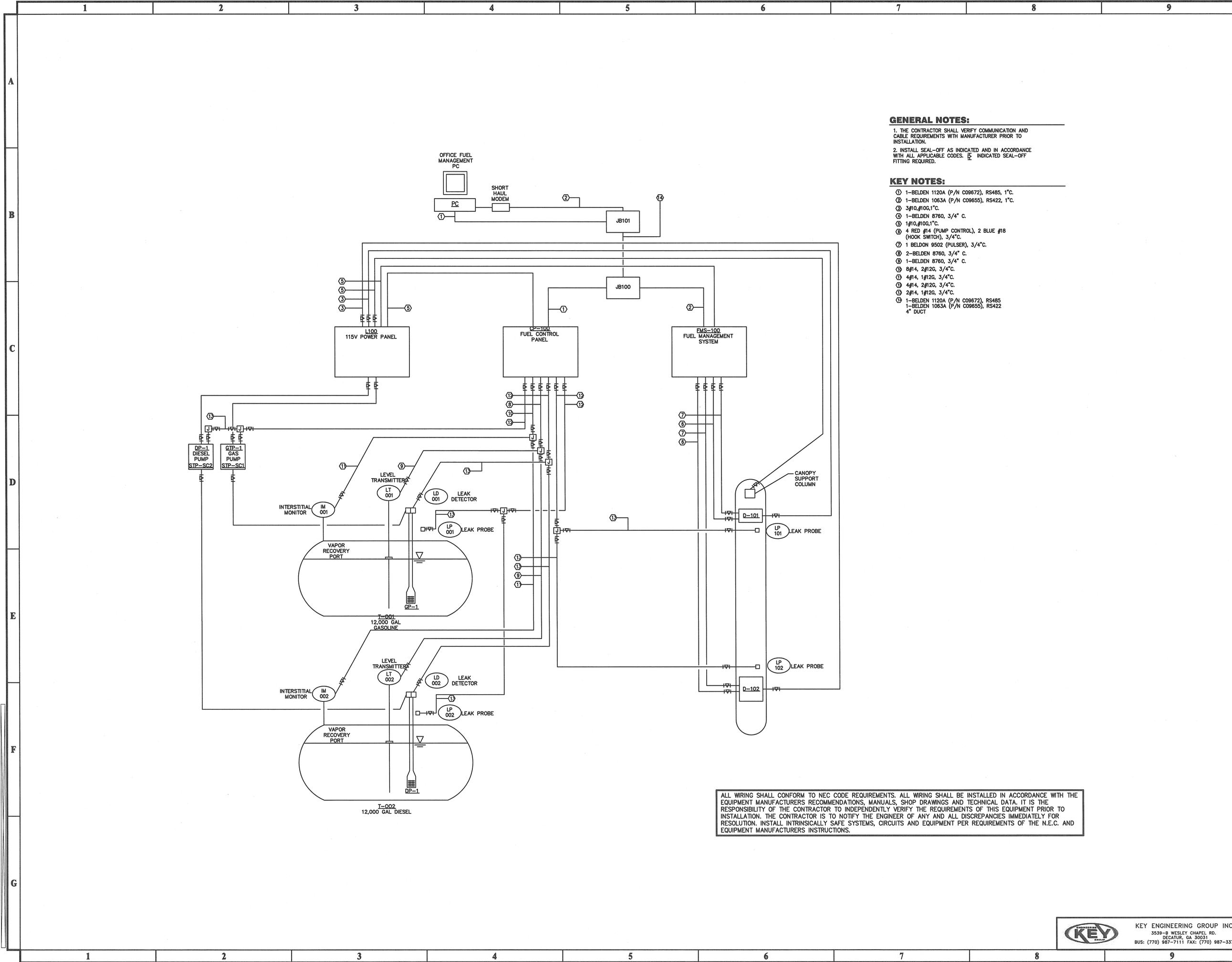
DRAWING SCALE: NTS

PROJECT NUMBER: 2015-0021

DRAWING NUMBER: E-001

NOT ISSUED FOR CONSTRUCTION

**KEY** ENGINEERING GROUP INC.  
3539-B WESLEY CHAPEL RD.  
DECATUR, GA 30031  
BUS: (770) 887-7111 FAX: (770) 887-3371



**GENERAL NOTES:**

1. THE CONTRACTOR SHALL VERIFY COMMUNICATION AND CABLE REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.
2. INSTALL SEAL-OFF AS INDICATED AND IN ACCORDANCE WITH ALL APPLICABLE CODES.  $\square$  INDICATED SEAL-OFF FITTING REQUIRED.

**KEY NOTES:**

- ① 1-BELDEN 1120A (P/N C09672), RS485, 1".
- ② 1-BELDEN 1063A (P/N C09655), RS422, 1".
- ③ 3/10, #10G, 1".
- ④ 1-BELDEN 8760, 3/4" c.
- ⑤ 1/10, #10G, 1".
- ⑥ 4 RED #14 (PUMP CONTROL), 2 BLUE #18 (HOOK SWITCH), 3/4".
- ⑦ 1 BELDEN 9502 (PULSER), 3/4".
- ⑧ 2-BELDEN 8760, 3/4" c.
- ⑨ 1-BELDEN 8760, 3/4" c.
- ⑩ 8/14, 2/12G, 3/4".
- ⑪ 4/14, 1/12G, 3/4".
- ⑫ 4/14, 2/12G, 3/4".
- ⑬ 2/14, 1/12G, 3/4".
- ⑭ 1-BELDEN 1120A (P/N C09672), RS485
- ⑮ 1-BELDEN 1063A (P/N C09655), RS422
- ⑯ 4" DUCT

ALL WIRING SHALL CONFORM TO NEC CODE REQUIREMENTS. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS, MANUALS, SHOP DRAWINGS AND TECHNICAL DATA. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE REQUIREMENTS OF THIS EQUIPMENT PRIOR TO INSTALLATION. THE CONTRACTOR IS TO NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES IMMEDIATELY FOR RESOLUTION. INSTALL INTRINSICALLY SAFE SYSTEMS, CIRCUITS AND EQUIPMENT PER REQUIREMENTS OF THE N.E.C. AND EQUIPMENT MANUFACTURERS INSTRUCTIONS.

**PRIME ENGINEERING INCORPORATED**  
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 ATLANTA, GEORGIA 30327  
 404-425-7100

**PROJECT:**  
 FUELING SYSTEM ADDITION  
 for  
 NORTH FULTON MAINTENANCE  
 AND OPERATIONS CENTER -W026  
 ROSWELL, GEORGIA

**PREPARED FOR:**  
 FULTON COUNTY, GEORGIA  
 DEPARTMENT OF PUBLIC WORKS  
 WATER SERVICES DIVISION

NO.	DATE	DESCRIPTION
A	8/2/2012	ISSUED FOR LOOK REVIEW
C	8/7/2012	ISSUED FOR BID
D	8/9/2012	ISSUED FOR PERMITS



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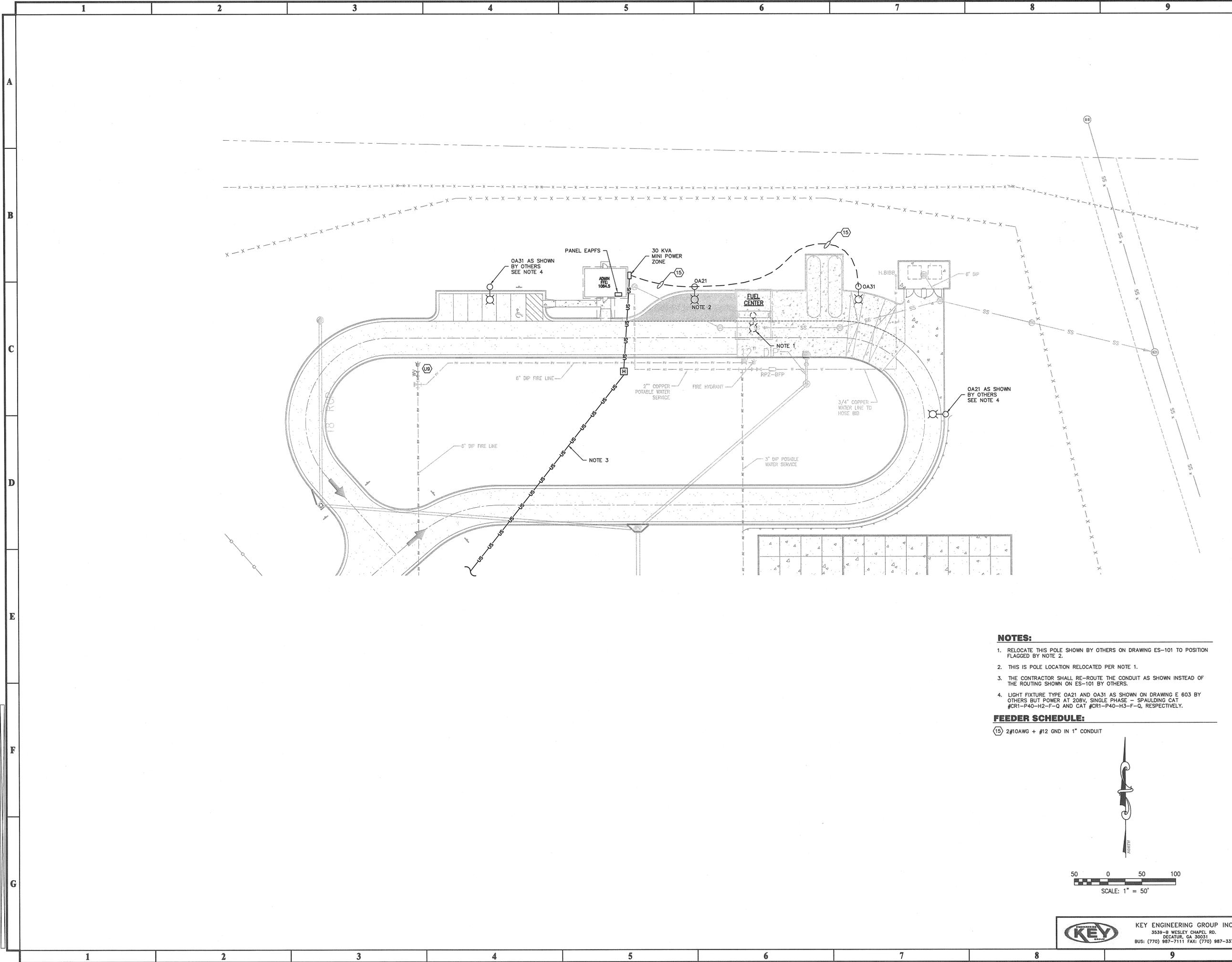
**CONTROL DIAGRAM**

DRAWING TITLE

DRAWING DATE	7/12/12
DRAWN BY	CE
DESIGNED BY	EY
CHECKED BY	DD
PROJECT NUMBER	2015-0021
DRAWING NUMBER	E-002

**KEY ENGINEERING GROUP INC.**  
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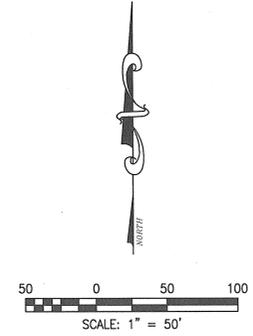


**NOTES:**

1. RELOCATE THIS POLE SHOWN BY OTHERS ON DRAWING ES-101 TO POSITION FLAGGED BY NOTE 2.
2. THIS IS POLE LOCATION RELOCATED PER NOTE 1.
3. THE CONTRACTOR SHALL RE-ROUTE THE CONDUIT AS SHOWN INSTEAD OF THE ROUTING SHOWN ON ES-101 BY OTHERS.
4. LIGHT FIXTURE TYPE OA21 AND OA31 AS SHOWN ON DRAWING E 603 BY OTHERS BUT POWER AT 208V, SINGLE PHASE - SPALDING CAT #CR1-P40-H2-F-Q AND CAT #CR1-P40-H3-F-Q, RESPECTIVELY.

**FEEDER SCHEDULE:**

15 2#10AWG + #12 GND IN 1" CONDUIT



**KEY** ENGINEERING GROUP INC.  
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**PRIME ENGINEERING INCORPORATED**  
 3715 NORTHSIDE PARKWAY NW  
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 404-425-7100

**PROJECT:** FUELING SYSTEM ADDITION FOR NORTH FULTON MAINTENANCE AND OPERATIONS CENTER-W026 ROSWELL, GEORGIA  
**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF PUBLIC WORKS WATER SERVICES DIVISION

NO.	DATE	DESCRIPTION
A	8/2/2012	ISSUED FOR 100% REVIEW
C	8/7/2012	ISSUED FOR BID
D	8/8/2012	ISSUED FOR PERMITS



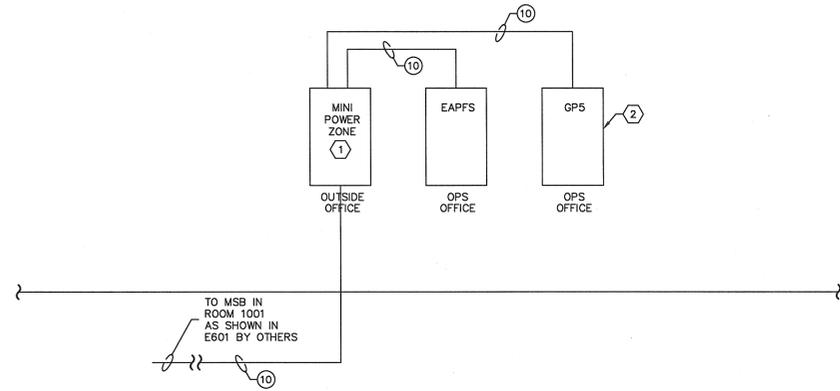
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**ELECTRICAL SITE PLAN**

DRAWING DATE	7/12/12
DRAWN BY	CE
DESIGNED BY	EKY
CHECKED BY	DD
DRAWING NUMBER	E-100

DRAWING TITLE: 49

NOT ISSUED FOR CONSTRUCTION



**KEY NOTES:**  
 ① 30 KVA, 3PHASE, 4WIRE 480VOLTS TO 208/120VOLTS MINI POWER ZONE IN NEMA 3R ENCLOSURE.  
 ② AS SHOWN ON E-601 AND ES-101 AND E-113 BY OTHERS.

**FEEDER SCHEDULE**  
 ⑩ 3#4 AWG, 1#10 GND, 1-1/4" CONDUIT

**1 ELECTRICAL RISER DIAGRAM**  
 E-101 SCALE: NONE

PANELBOARD SCHEDULE													
PANEL:		EAPFS		LOCATION:		OFFICE BUILDING							
VOLTAGE:		208/120		PHASE:		3		WIRE:		4			
SIZE:		100		MAIN:		100		AIC:		10,000			
FULL NEUTRAL:				MOUNTING:				GRD:					
				Surface				Yes					
CKT. NO.	AMPS TRIP	POLES	CIRCUIT DESCRIPTION	KVA	PHASE	"B"	"C"	"A"	KVA	CIRCUIT DESCRIPTION	POLES	AMPS TRIP	CKT. NO.
1	20	1	Fueling Canopy Lights	1.4	2.4				1.0	Diesel Fuel pump Controller	2	20	2
3	20	1	D-101 Source power	0.5		1.5			1.0				4
5	20	1	D-101 Dedicated Processor	0.4				1.4	1.0	GAS Fuel Pump Controller	2	20	6
7	20	1	D-101 Light	0.1	1.1				1.0				8
9	20	1	D-102 Source power	0.5		1.5			1.0	OWS control Panel	2	20	10
11	20	1	D-102 Dedicated Processor	0.4				1.4	1.0				12
13	20	1	D-102 Light	0.1	1.0				0.9	Fueling Area Site Light	2	20	14
15	20	1	FMS-100 Fuel MGT Systems	1.0		1.8			0.8				16
17	20	1	space	1.2				2.1	0.9	Lighting Contactor	1	20	18
19	20	1	space	1.2	1.2				0.0	space	1	20	20
21	20	1	space	0.0		0.0			0.0	space	1	20	22
23	20	1	space	0.0			0.0		0.0		1	20	24
PHASE TOTALS:				6.7	4.8	4.8							
PANEL TOTAL:						15.3				KVA			

**2 FUEL CENTER PANEL SCHEDULE**  
 E-101 SCALE: NONE

**PRIME ENGINEERING INCORPORATED**  
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 300 NORTHCREEK SUITE 200  
 ATLANTA, GEORGIA 30327  
 404-425-7100

**PROJECT:** FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER -W06 ROSWELL, GEORGIA  
**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF PUBLIC WORKS WATER SERVICES DIVISION

REV. NO.	DATE	DESCRIPTION
A	8/2/2012	ISSUED FOR 100% REVIEW
C	8/7/2012	ISSUED FOR BID
D	8/6/2012	ISSUED FOR PERMITS

**SEAL:** [Professional Engineer Seal for James H. Smith, State of Georgia, License No. 12345]

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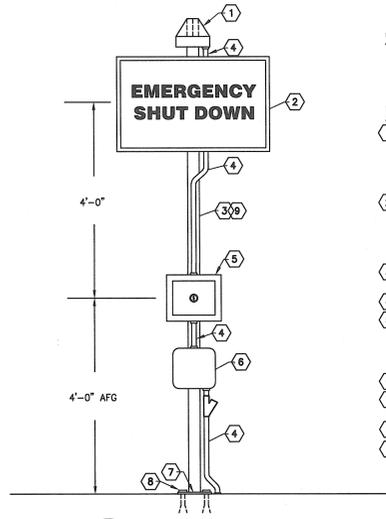
**DRAWING TITLE:** FUEL CENTER RISER DIAGRAM AND PANEL SCHEDULE

DRAWING DATE:	7/12/12
DRAWN BY:	CE
DESIGNED BY:	NTS
CHECKED BY:	DD
PROJECT NUMBER:	2015-0021
DRAWING NUMBER:	E-101

**KEY ENGINEERING GROUP INC.**  
 3539-B WESLEY CHAPEL RD.  
 DECATUR, GA 30033  
 BUS: (770) 887-7111 FAX: (770) 987-3371

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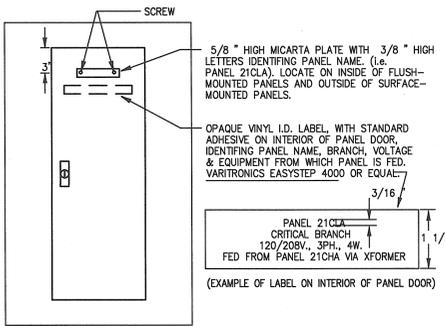




**1 ESD STATION DETAIL**  
E401 SCALE: NONE

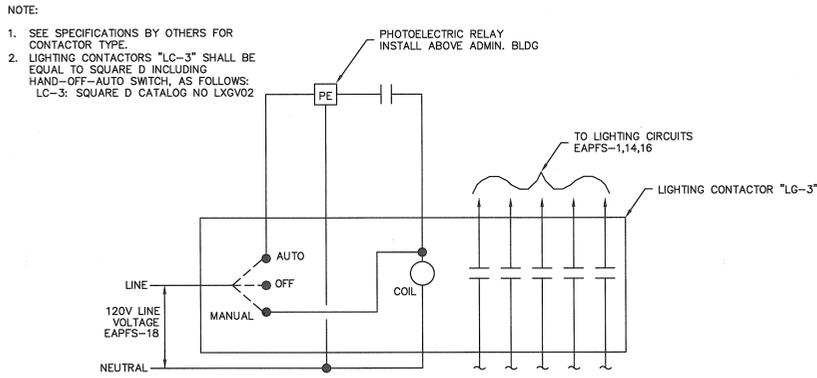
**GENERAL NOTES:**  
1. FOR WALL MOUNT, OMIT PEDESTAL.

- KEY NOTES:**
- EXPLOSION PROOF BEACON, BLUE IN COLOR. UNIT SHALL BE MODEL NUMBER 191 XL AS MANUFACTURED BY FEDERAL SIGNAL, OR APPROVED EQUAL. UNIT SHALL ILLUMINATE STEADY STATE AND FLASH VIA EFSO SYSTEM UPON ALARM ACTIVATION. SWITCH KEY RESET SHALL EXTINGUISH ALARM STATUS.
  - PROVIDE EMERGENCY FUEL SHUT OFF SIGNAGE, MOUNTED TO PEDESTAL. SIGN SHALL BE MINIMUM 24"x24", 3/8" THICKNESS. SIGN SHALL BE CONSTRUCTED OF ALUMINUM, WITH RED BACKGROUND AND WHITE PLASTIC LETTERING. UNIT SHALL HAVE BLACK METAL EDGE PROTECTOR.
  - PEDESTAL SHALL BE 8" TUBULAR STEEL, GALVANIZED, HOT DIPPED (AFTER FABRICATION).
  - 1" GRS CONDUIT.
  - EFSO STATION AS MANUFACTURED BY SIMPLEX, RED IN COLOR. UNIT SHALL HAVE ENVIRONMENTAL ENCLOSURE WITH POLYCARBONATE HINGED ACCESS DOOR, RED MUSHROOM-TYPE OILTIGHT SWITCH (MAINTAIN CONTACT) WITH KEY RESET.
  - NEMA 8 JUNCTION BOX.
  - 3/4" GALVANIZED STEEL PLATE, CONTINUOUSLY WELDED WITH 3/8" WELD.
  - CONCRETE ANCHORS, 1/2" SIZE (4 TOTAL).
  - FOR WALL MOUNTED EFSO STATION, USE SAME DETAIL WITHOUT PEDESTAL.



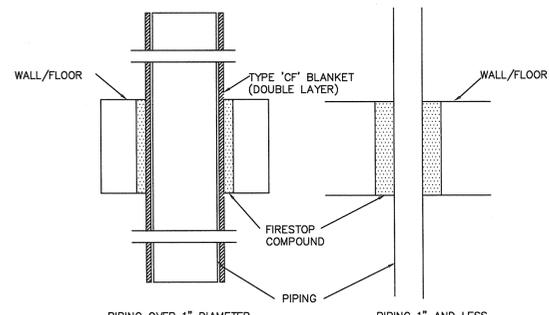
LABELS ON NORMAL BRANCH PANELS (N) SHALL BE BLACK WITH WHITE LETTERS.  
LABELS ON ESSENTIAL BRANCH PANELS (C,E,S,Q,U,X) SHALL BE RED WITH WHITE LETTERS.

**2 PANEL LABELING DETAIL**  
E401 SCALE: NONE



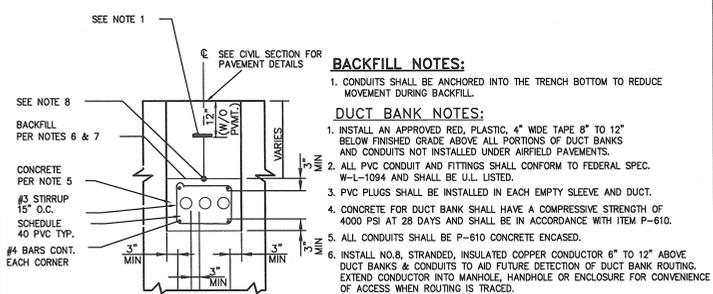
NOTE:  
1. SEE SPECIFICATIONS BY OTHERS FOR CONTACTOR TYPE.  
2. LIGHTING CONTACTORS "LC-3" SHALL BE EQUAL TO SQUARE D INCLUDING HAND-OFF-AUTO SWITCH, AS FOLLOWS: LC-3: SQUARE D CATALOG NO LXGV02

**3 FUELING STATION LIGHTING CONTROL SCHEMATIC DIAGRAM**  
E401 SCALE: NONE



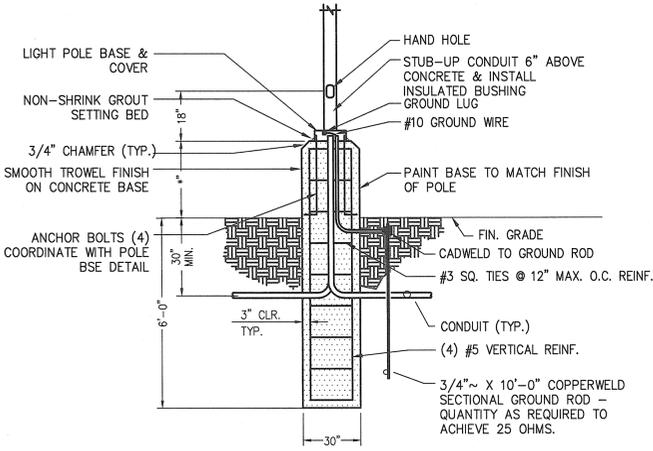
PROVIDE IN ACCORDANCE WITH THE FOLLOWING U.L. DETAIL NUMBERS:  
WALL PENETRATION: #WL1062, FLOOR/CEILING PENETRATION: #CAJ1106  
INSTALL FIRESTOP COMPOUND BY CAULKING, POURING OR TROWELING TO 3-1/4" DEPTH TO FILL THE ANNULAR SPACE.  
COMPOUND SHALL BE FLAME-SAFE #SS500 OR FST600 OR EQUAL.

**4 FIRE STOP DETAIL**  
E401 SCALE: NONE

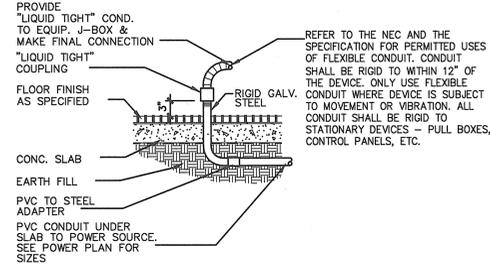


- BACKFILL NOTES:**  
1. CONDUITS SHALL BE ANCHORED INTO THE TRENCH BOTTOM TO REDUCE MOVEMENT DURING BACKFILL.  
AND CONDUITS NOT INSTALLED UNDER AIRFIELD PAVEMENTS.
- DUCT BANK NOTES:**  
1. INSTALL AN APPROVED RED, PLASTIC, 4" WIDE TAPE 8" TO 12" BELOW FINISHED GRADE ABOVE ALL PORTIONS OF DUCT BANKS AND CONDUITS NOT INSTALLED UNDER AIRFIELD PAVEMENTS.  
2. ALL PVC CONDUIT AND FITTINGS SHALL CONFORM TO FEDERAL SPEC. W-1-1094 AND SHALL BE U.L. LISTED.  
3. PVC PLUGS SHALL BE INSTALLED IN EACH EMPTY SLEEVE AND DUCT.  
4. CONCRETE FOR DUCT BANK SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS AND SHALL BE IN ACCORDANCE WITH ITEM P-610.  
5. ALL CONDUITS SHALL BE P-610 CONCRETE ENCASED.  
6. INSTALL NO.8, STRANDED, INSULATED COPPER CONDUCTOR 6" TO 12" ABOVE DUCT BANKS & CONDUITS TO AID FUTURE DETECTION OF DUCT BANK ROUTING. EXTEND CONDUCTOR INTO MANHOLE, HANDHOLE OR ENCLOSURE FOR CONVENIENCE OF ACCESS WHEN ROUTING IS TRACED.  
7. SEE CIVIL DRAWINGS AND SECTIONS FOR OTHER SPECIFIC REQUIREMENTS REGARDING DUCT BANK INSTALLATIONS.

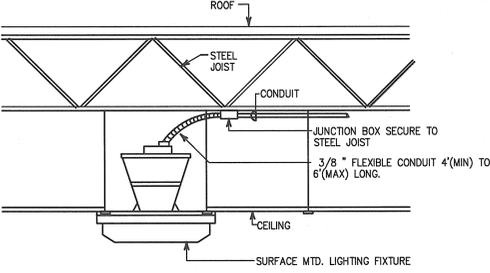
**5 ELECTRICAL DUCT BANK**  
E401 SCALE: NONE



**6 LIGHT POLE DETAIL**  
E401 SCALE: NONE

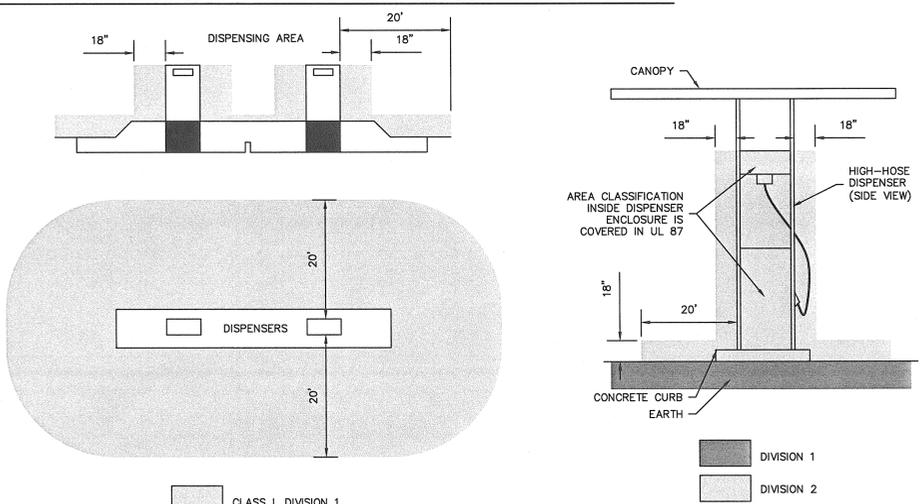


**7 CONDUIT STUB-UP DETAIL**  
E401 SCALE: NONE



NOTE: ALL FIXTURES SHALL BE WIRED FROM A JUNCTION BOX AS SHOWN ABOVE, INCLUDING FIXTURES SHOWN IN CONTINUOUS ROWS. NO WIRING THRU FIXTURES. AT CONTRACTORS OPTION, SEVERAL FIXTURES NOT TO EXCEED FOUR(4) MAY BE WIRED TO A COMMON JUNCTION BOX.

**8 FIXTURE INSTALLATION DETAIL**  
E401 SCALE: NONE



**9 HAZARDOUS CLASSIFICATION DETAIL PER NEC 514**  
E401 SCALE: NONE

**PRIME ENGINEERING INCORPORATED**  
3715 NORTHERSIDE PARKWAY NW  
300 NORTHERBREEK SUITE 200  
ATLANTA, GEORGIA 30327  
404-425-7100

**PROJECT:**  
FUELING SYSTEM ADDITION  
for  
NORTH FULTON MAINTENANCE  
AND OPERATIONS CENTER-W026  
ROSWELL, GEORGIA

**PREPARED FOR:**  
FULTON COUNTY, GEORGIA  
DEPARTMENT OF PUBLIC WORKS  
WATER SERVICES DIVISION

NO.	DATE	DESCRIPTION
A	8/2/2012	ISSUED FOR 100% REVIEW
B	8/7/2012	ISSUED FOR BID
C	8/9/2012	ISSUED FOR PERMITS



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**ELECTRICAL DETAILS**

DRAWING TITLE

DRAWN BY: CE  
DESIGNED BY: EAY  
CHECKED BY: DD

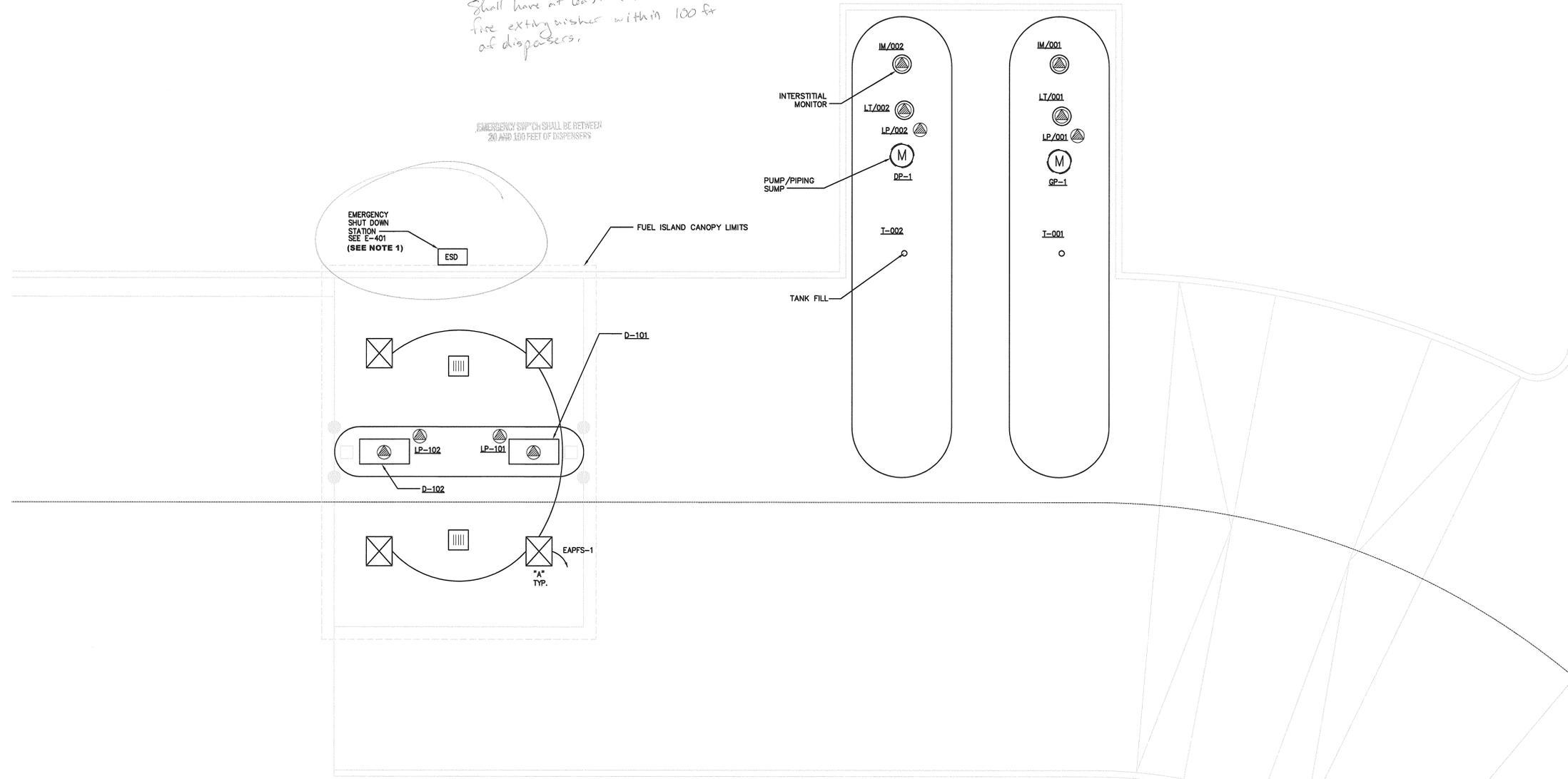
DRAWING DATE: 7/12/12  
DRAWING SCALE: AS SHOWN  
PROJECT NUMBER: 2015-0021  
DRAWING NUMBER: E-401

KEY ENGINEERING GROUP INC.  
3539-B WESLEY CHAPEL RD.  
DECATUR, GA 30031  
BUS: (770) 987-7111 FAX: (770) 987-3371

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Shell have at least (1) 80 B/C fire extinguisher within 100 ft of dispensers.

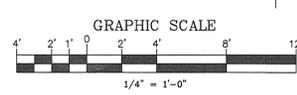
EMERGENCY SWP CH SHALL BE BETWEEN 20 AND 100 FEET OF DISPENSERS



**1 FUEL CENTER ELECTRICAL PLAN**  
 E-201 SCALE: 1/4" = 1'

**LIGHT FIXTURE SCHEDULE**  
 "A" : SCOTTSDALE SG-S-320-PSMV-PG-MT-WHT  
 SURFACE MOUNTED ON THE CANOPY 16" ABOVE FINISHED GRADE

**GENERAL NOTES:**  
 1. THE "ESD" SHALL BE LOCATED 10'-0" NORTH OF THE FACE OF THE NORTH CURB.



KEY ENGINEERING GROUP INC.  
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**PRIME ENGINEERING INCORPORATED**  
 215 NORTHSHORE PARKWAY  
 SUITE 200  
 ATLANTA, GEORGIA 30328  
 404.425.7100

**PROJECT:** FUELING SYSTEM ADDITION for NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - W026 ROSWELL, GEORGIA  
**PREPARED FOR:** FULTON COUNTY, GEORGIA DEPARTMENT OF PUBLIC WORKS WATER SERVICES DIVISION

NO.	DATE	DESCRIPTION
A	6/27/12	ISSUED FOR LODG REVIEW
C	8/7/2012	ISSUED FOR BID
D	9/9/2012	ISSUED FOR PERMITS



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**ELECTRICAL PLAN**

DRAWING TITLE

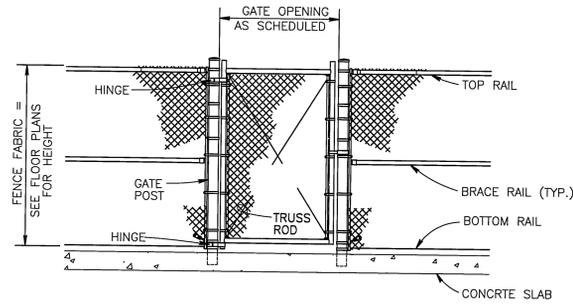
DRAWING DATE	7/19/12
DRAWING SCALE	1/4" = 1'
PROJECT NUMBER	2012-0021
DRAWING NUMBER	E-201

53

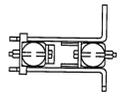
NOT ISSUED FOR CONSTRUCTION

GATE POST SCHEDULE	
GATE LEAF WIDTH (NOMINAL)	OUTSIDE DIMENSION (NOMINAL)
6.00 FT. OR LESS	2.875" O.D.

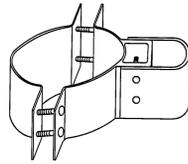
STEEL POST SCHEDULE	
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)
CORNER, END & PULL POSTS TUBULAR - ROUND	FABRIC 6'-0" TO 8'-0" 2.875" O.D.
LINE POSTS TUBULAR - ROUND	2.375" O.D.
TOP & BOTTOM RAILS TUBULAR - ROUND	1.66" O.D.



PERSONNEL GATE



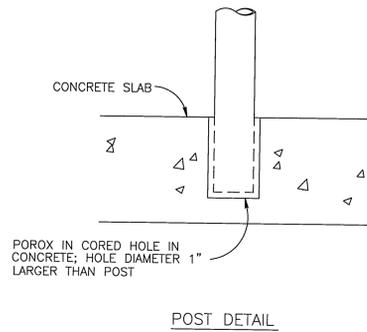
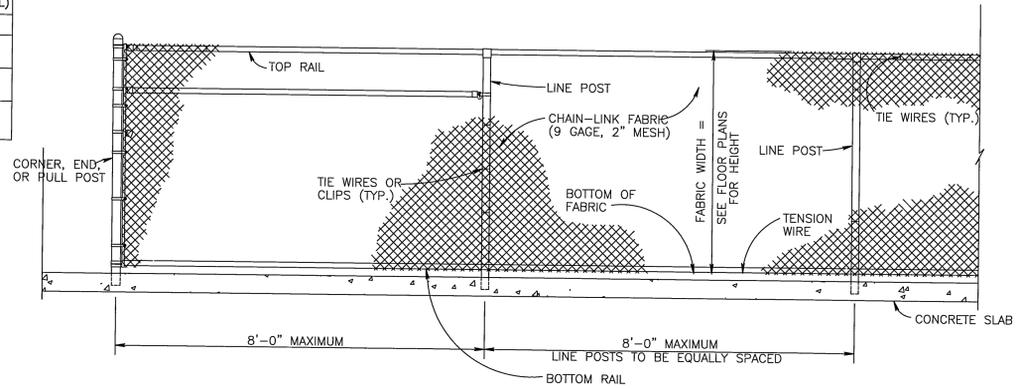
LATCH ASSEMBLY



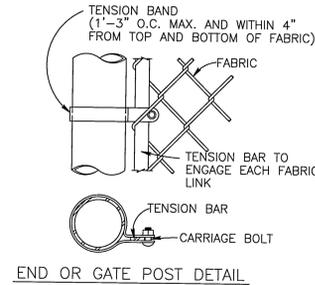
STANDARD HINGE

NOTES:

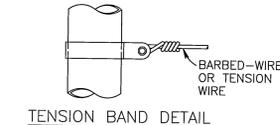
1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. ALL GATE FRAMES SHALL BE A MINIMUM 2" NOMINAL ROUND CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. AT THE CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.
3. SWING GATES SHALL BE CONSTRUCTED WITH PADLOCKS, LATCH ASSEMBLY, AND GATE KEEPERS EXCEPT AS NOTED.



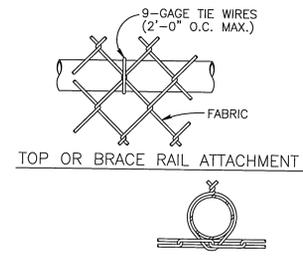
POST DETAIL



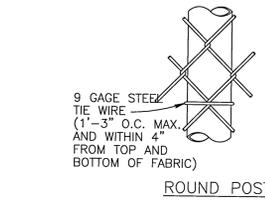
END OR GATE POST DETAIL



TENSION BAND DETAIL



TOP OR BRACE RAIL ATTACHMENT

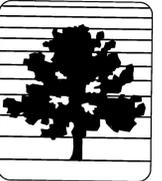


LINE POST ATTACHMENT

FASTENING DETAILS

NOTES:

1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURE AREA.



FULTON COUNTY

**POND**  
Architects • Engineers • Planners  
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SYMBOL	DESCRIPTION	DATE	BY
	ISSUED FOR BID	11/18/2011	
	CITY OF ROSWELL PERMIT SUBMITTAL SET (CIVIL PLANS ONLY)	01/13/2012	
	THIS SHEET ISSUED FOR ADDENDUM	11/13/2012	

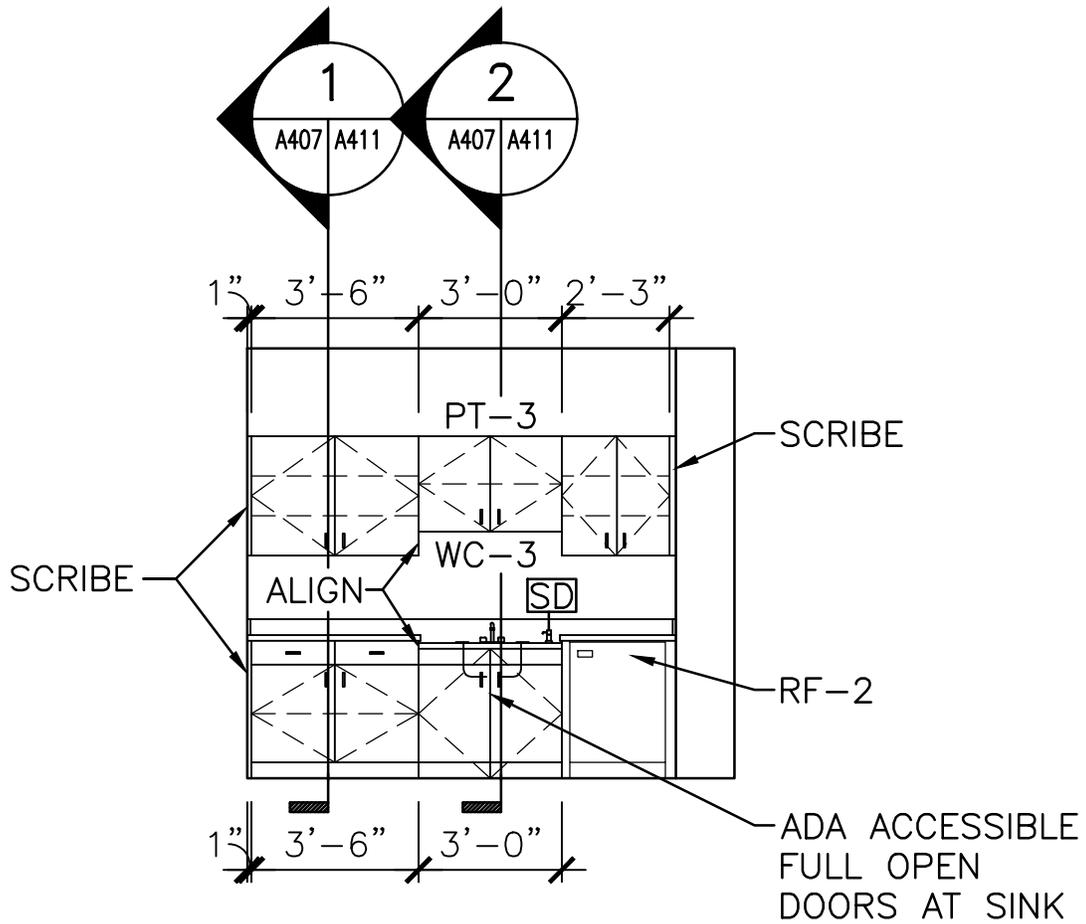
NORTH-FULTON MAINTENANCE AND OPERATIONS CENTER-W026  
ROSWELL, GEORGIA  
INTERIOR FENCE DETAILS

DRAWING NUMBER:  
**A-507**  
SHEET

DESIGNED BY: ERA  
CHECKED BY: MJM  
ISSUED DATE: 11/18/2011

Job Number: 1110247

M:\Fulton Co\NFIOC 2011\DWG\A-507.dwg willforadb 11/13/12 - 5:45 P



SCALE: 1/4" = 1'-0"

**POND**  
Architects Engineers Planners

3500 Parkway Lane Suite 600  
Norcross, GA 30092  
Phone (678) 336-7740  
Fax (678) 336-7744  
Web: www.pondco.com

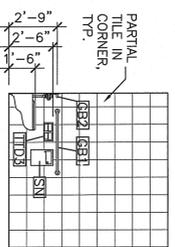
NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - W026  
PROJECT NO.: 1110247

INTERIOR ELEVATION AT PANTRY 105

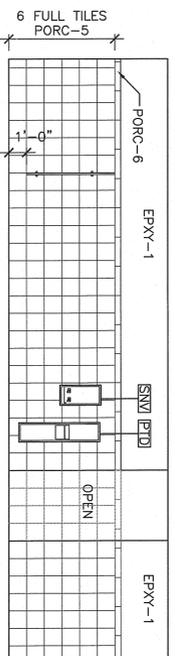
DATE: 11/14/2012

DRAWING NO.

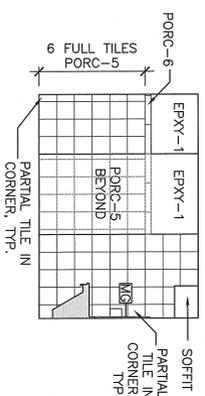
FS-A407-1



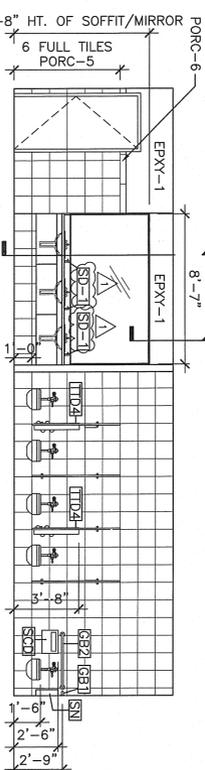
1 INTERIOR ELEVATION - WOMEN'S LOCKER ROOM 139  
SCALE: 1/4"=1'-0"



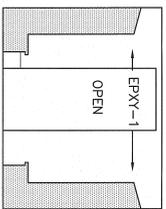
2 INTERIOR ELEVATION - WOMEN'S LOCKER ROOM 139  
SCALE: 1/4"=1'-0"



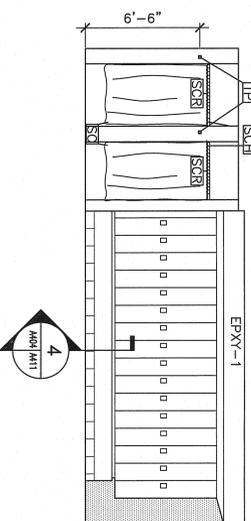
3 INTERIOR ELEVATION - WOMEN'S LOCKER ROOM 139  
SCALE: 1/4"=1'-0"



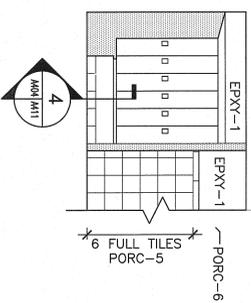
4 INTERIOR ELEVATION - WOMEN'S LOCKER ROOM 139  
SCALE: 1/4"=1'-0"



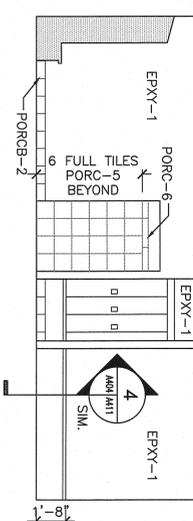
5 INTERIOR ELEVATION - WOMEN'S LOCKER ROOM 139  
SCALE: 1/4"=1'-0"



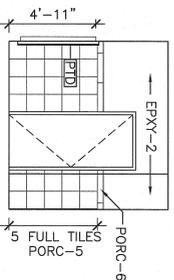
6 INTERIOR ELEVATION - WOMEN'S LOCKER ROOM 139  
SCALE: 1/4"=1'-0"



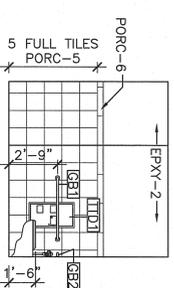
7 INTERIOR ELEVATION - WOMEN'S LOCKER ROOM 139  
SCALE: 1/4"=1'-0"



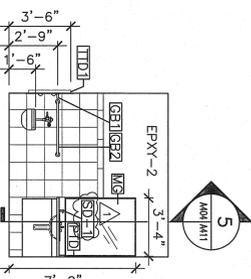
8 INTERIOR ELEVATION - WOMEN'S LOCKER ROOM 139  
SCALE: 1/4"=1'-0"



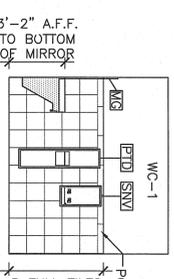
9 INTERIOR ELEVATION - WOMEN'S RESTROOM 229  
SCALE: 1/4"=1'-0"



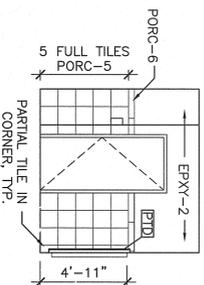
10 INTERIOR ELEVATION - WOMEN'S RESTROOM 229  
SCALE: 1/4"=1'-0"



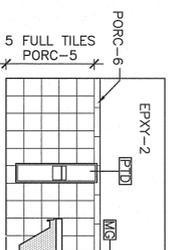
11 INTERIOR ELEVATION - WOMEN'S RESTROOM 229  
SCALE: 1/4"=1'-0"



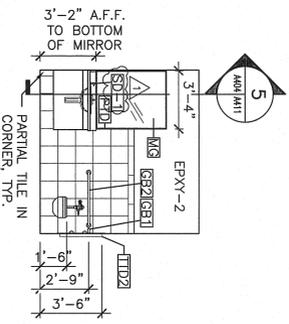
12 INTERIOR ELEVATION - WOMEN'S RESTROOM 229  
SCALE: 1/4"=1'-0"



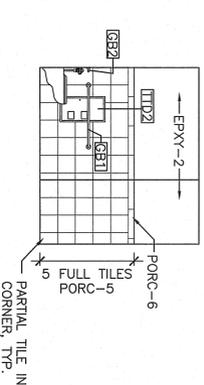
13 INTERIOR ELEVATION - MEN'S RESTROOM 228  
SCALE: 1/4"=1'-0"



14 INTERIOR ELEVATION - MEN'S RESTROOM 228  
SCALE: 1/4"=1'-0"

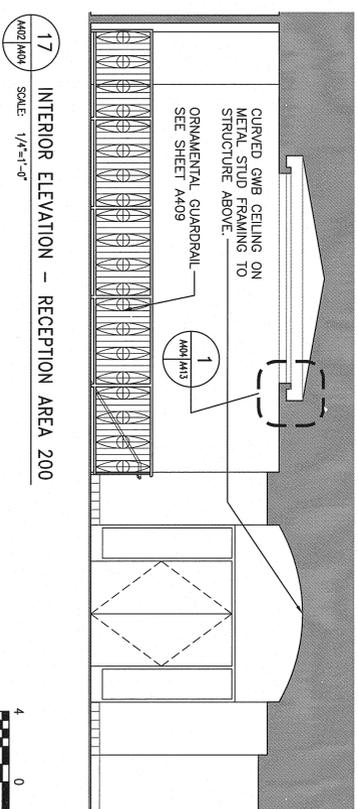


15 INTERIOR ELEVATION - MEN'S RESTROOM 228  
SCALE: 1/4"=1'-0"



16 INTERIOR ELEVATION - MEN'S RESTROOM 228  
SCALE: 1/4"=1'-0"

NO	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
FS	FOLDING SHOWER SEAT	BOBRICK	B-5181	REVERSIBLE, FOLDING
GB1	42" HORIZONTAL GRAB BAR	BOBRICK	B-6806/42	
GB2	36" HORIZONTAL GRAB BAR	BOBRICK	B-6806/36	
GB3	24"x36" TUB / SHOWER GRAB BAR	BOBRICK	B-58616	
MG	MIRROR	BOBRICK	B-290	ANGLE-FRAMED, SIZE VARIES, SEE DWGS.
MS	MOP/BROOM HOLDER WITH SHELF	BOBRICK	B-239	MOUNT @ 6" AFF TO TOP OF SHELF, SATIN SS
PTD	PAPER TOWEL DISPENSER & WASTE RECEPTACLE	BOBRICK	B-38032	SEMI-RECESSED
SC	VINYL SHOWER CURTAIN	BOBRICK	204-2	SURFACE MOUNTED
SCD	TOILET SEAT - COVER DISPENSER	BOBRICK	204-1	
SCR	SHOWER CURTAIN HOOK	BOBRICK	B-221	
SD-1	MANUAL SOAP DISPENSER	BOBRICK	B-207/48	CONCEALED MOUNTING
SN	SANITARY NAPKIN DISPOSAL	BOBRICK	B-62216	LABORATORY MOUNTED
SNV	SANITARY NAPKIN/TAMPON VENDOR	BOBRICK	B-254	SURFACE MOUNTED
TP	TOWEL PIN	BOBRICK	B-3500	25 RECESS MOUNTED, SET FOR 25¢
TTD1	MULTI-ROLL TOILET PAPER & SEAT COVER DISPENSER W/ SAN NAPKIN DISPOSAL	BOBRICK	B-6777	SURFACE MOUNTED
TTD2	MULTI-ROLL TOILET PAPER & SEAT COVER DISPENSER	BOBRICK	B-3474	RECESS MOUNTED
TTD3	DOUBLE-ROLL TOILET TISSUE DISPENSER WITH HOODS	BOBRICK	B-69997	SURFACE MOUNTED
TTD4	MULTI-ROLL TOILET PAPER & SEAT COVER DISPENSER W/ SAN NAPKIN DISPOSAL	BOBRICK	B-3471	PARTITION MOUNTED, SERVES TWO COMPARTMENTS
TTD5	MULTI-ROLL TOILET PAPER & SEAT COVER DISPENSER	BOBRICK	B-3471	PARTITION MOUNTED, SERVES TWO COMPARTMENTS
US1	UTILITY SHELF	BOBRICK	B-295	STAINLESS STEEL SHELF



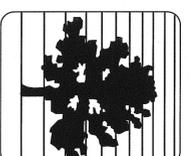
17 INTERIOR ELEVATION - RECEPTION AREA 200  
SCALE: 1/4"=1'-0"

NO	DESCRIPTION	DATE
1	ISSUED FOR BID	11/18/2011
2	CITY OF ROSWELL PERMIT SUBMITTAL SET (CIVIL PLANS ONLY)	01/13/2012
3	REVISION 1 - ADDENDUM NO. 3, NOVEMBER 14, 2012	11/14/2012



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NORTH FULTON MAINTENANCE AND OPERATIONS CENTER-WO26 ROSWELL, GEORGIA  
ADMINISTRATION AND WAREHOUSE INT. ELEV. / ACCESSORIES SCHEDULE

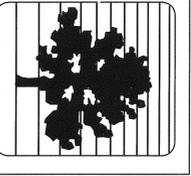
DRAWING NUMBER: A-404  
SHEET

DESIGNED BY: EFA  
CHECKED BY: MAM  
ISSUED DATE: 11/16/2011  
Job Number: 1110247



SCALE: 1/4" = 1'-0"

- NOTES:**
1. SEE SHEET A-404 FOR ACCESSORIES SCHEDULE.
  2. NO PORCELAIN TILES ON CMU WALLS AT SHOWERS.



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SYMBOL	DESCRIPTION	DATE	BY
	ISSUED FOR BID	11/18/2011	
	CITY OF ROSWELL PERMIT SUBMITTAL SET (CIVIL PLANS ONLY)	01/13/2012	
	REVISION 1 - ADDENDUM NO. 3, NOVEMBER 14, 2012	11/14/2012	

NORTH FULTON MAINTENANCE AND OPERATIONS CENTER-W026 ROSWELL, GEORGIA

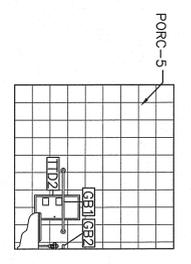
ADMINISTRATION AND WAREHOUSE INTERIOR ELEVATIONS

DRAWING NUMBER: **A-403**

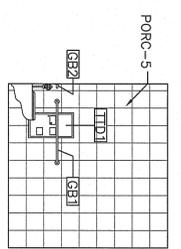
DESIGNED BY: ERA  
 CHECKED BY: MAM  
 ISSUED DATE: 11/18/2011

SHEET

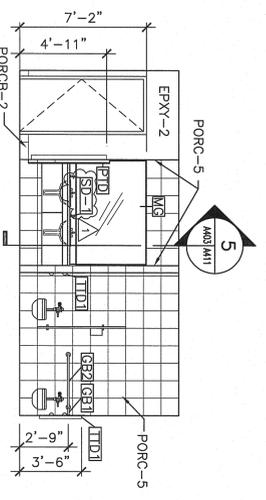
Job Number: 1110247



**3** INTERIOR ELEVATION MEN'S RESTROOM 188  
 SCALE: 1/4"=1'-0"  
 NOTE: SECOND FLOOR RESTROOM 276 SIM.

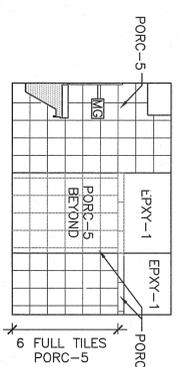


**6** INTERIOR ELEVATION WOMEN'S RESTROOM 187  
 SCALE: 1/4"=1'-0"  
 NOTE: SECOND FLOOR RESTROOM 273 SIM.

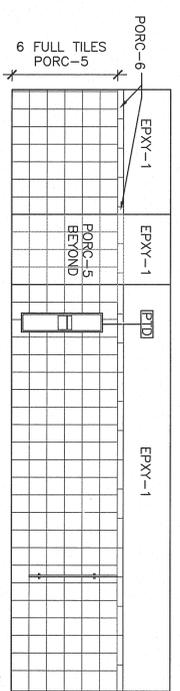


**2** INTERIOR ELEVATION MEN'S RESTROOM 188  
 SCALE: 1/4"=1'-0"  
 NOTE: SECOND FLOOR RESTROOM 276 SIM.

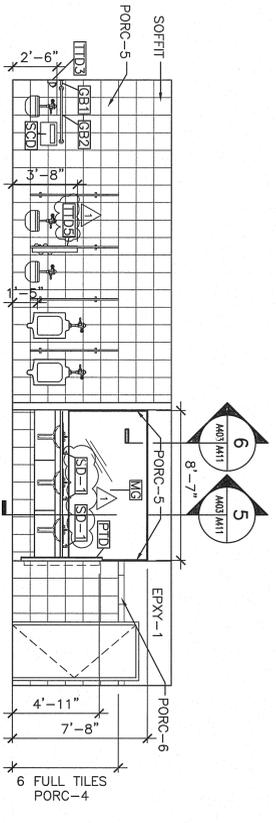
**5** INTERIOR ELEVATION WOMEN'S RESTROOM 187  
 SCALE: 1/4"=1'-0"  
 NOTE: SECOND FLOOR RESTROOM 273 SIM.



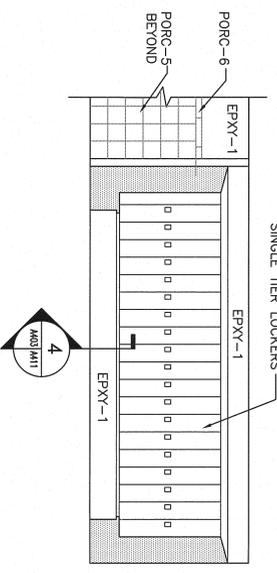
**11** INTERIOR ELEVATION - MEN'S LOCKER ROOM 141  
 SCALE: 1/4"=1'-0"



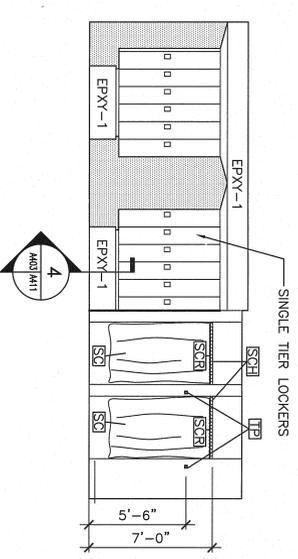
**12** INTERIOR ELEVATION - MEN'S LOCKER ROOM 141  
 SCALE: 1/4"=1'-0"



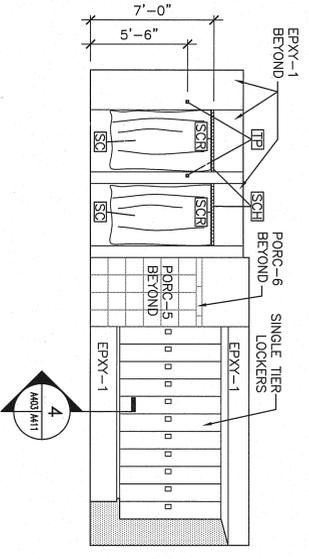
**10** INTERIOR ELEVATION - MEN'S LOCKER ROOM 141  
 SCALE: 1/4"=1'-0"



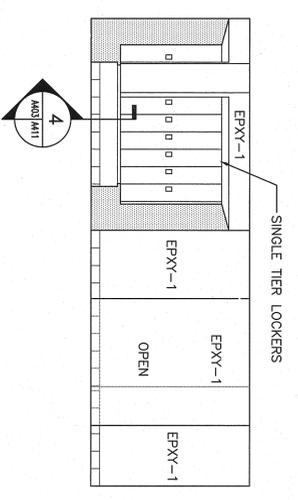
**15** INTERIOR ELEVATION - MEN'S LOCKER ROOM 141  
 SCALE: 1/4"=1'-0"



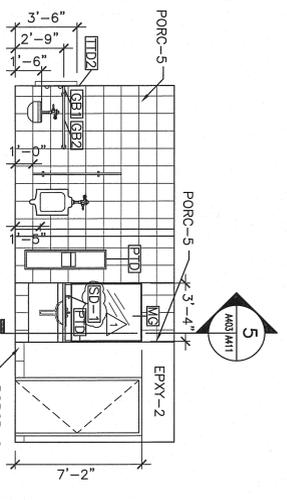
**16** INTERIOR ELEVATION - MEN'S LOCKER ROOM 141  
 SCALE: 1/4"=1'-0"



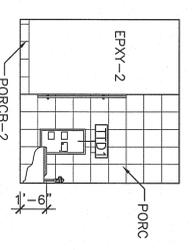
**14** INTERIOR ELEVATION - MEN'S LOCKER ROOM 141  
 SCALE: 1/4"=1'-0"



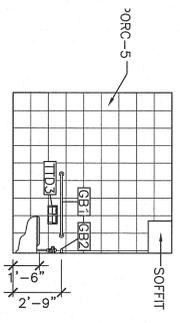
**13** INTERIOR ELEVATION - MEN'S LOCKER ROOM 141  
 SCALE: 1/4"=1'-0"



**1** INTERIOR ELEVATION MEN'S RESTROOM 188  
 SCALE: 1/4"=1'-0"  
 NOTE: SECOND FLOOR RESTROOM 276 SIM.



**4** INTERIOR ELEVATION WOMEN'S RESTROOM 187  
 SCALE: 1/4"=1'-0"  
 NOTE: SECOND FLOOR RESTROOM 273 SIM.



**9** INTERIOR ELEVATION - MEN'S LOCKER ROOM 141  
 SCALE: 1/4"=1'-0"



## SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

## 1.2 SUMMARY

## A. Section Includes:

1. Public-use washroom accessories.
2. Public-use shower room accessories.
3. Custodial accessories.

## B. Related Sections:

1. Division 08 Section "Mirrors" for frameless mirrors.
2. Division 09 Section "Tiling" for ceramic toilet and bath accessories.

## 1.3 ACTION SUBMITTALS

## A. Product Data: For each type of product indicated. Include the following:

1. Construction details and dimensions.
2. Anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
3. Material and finish descriptions.
4. Features that will be included for Project.
5. Manufacturer's warranty.

## B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.

1. Identify locations using room designations indicated.
2. Identify products using designations indicated.

## 1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For toilet and bath accessories to include in maintenance manuals.

## 1.5 QUALITY ASSURANCE

- A. Source Limitations: For products listed together in the same Part 2 articles, obtain products from single source from single manufacturer.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

## 1.6 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Stainless Steel: ASTM A 666, Type 304, 0.031-inch (0.8-mm) minimum nominal thickness unless otherwise indicated.
- B. Steel Sheet: ASTM A 1008/A 1008M, Designation CS (cold rolled, commercial steel), 0.036-inch (0.9-mm) minimum nominal thickness.
- C. Galvanized-Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- D. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.
- E. Chrome Plating: ASTM B 456, Service Condition Number SC 2 (moderate service).
- F. ABS Plastic: Acrylonitrile-butadiene-styrene resin formulation.

### 2.2 PUBLIC-USE WASHROOM ACCESSORIES

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
  - 1. A & J Washroom Accessories, Inc.
  - 2. American Specialties, Inc.
  - 3. Bobrick Washroom Equipment, Inc.
  - 4. Bradley Corporation.
  - 5. Excel Dryer, Inc..
- B. Electric Hand Dryer (EHD)

1. Description: Xlerator. Warm air, rapid drying, energy efficient electric hand dryer; surface mounted. .
  2. Mounting: Surface wall mounted.
  3. Controls: automatic, activated by infrared optical sensor.
  4. Finish: Cover will be stainless steel with brushed finish.
- C. Liquid-Soap Dispenser (SD-1):
1. Description: Designed for dispensing soap in liquid form.
  2. Mounting: Deck mounted on vanity.
  3. Capacity: 32oz. (mL).
  4. Materials: Polyethylene tank with a 6 inch spout length.
- D. Grab Bar (GB): (GB1 42"Horizontal Grab Bar, GB2 36" Horizontal Grab Bar, GB3 Tub/Shower Grab Bar)
1. Mounting: Flanges with concealed fasteners.
  2. Material: Stainless steel, 0.05 inch (1.3 mm) thick.
    - a. Finish: Smooth, No. 4 finish (satin) on ends and slip-resistant texture in grip area.
  3. Outside Diameter: 1-1/4 inches (32 mm).
  4. Configuration and Length: As indicated on Drawings.
- E. Partition Mounted Toilet Seat Cover Dispenser (SCD):
1. Mounting: Partition Mounted.
  2. Minimum Seat Cover Capacity: 250 seat covers.
  3. Lockset: Tumbler type.
  4. Material and Finish: Stainless steel, No. 4 finish (satin).
- F. Multi-roll Toilet Paper & Seat Cover Dispenser w/ Sanitary Napkin Disposal (TTD1):
1. Mounting: Wall Mounted recessed.
  2. Description: Double-roll dispenser, Toilet Seat Cover dispenser, Sanitary Napkin Disposal.
  3. Handicapped Accessible
  4. Capacity: Designed for 4-1/2- or 5-inch- (114- or 127-mm-) diameter tissue rolls, Toilet Seat Cover dispenser holds 500 paper covers.
  5. Material and Finish: Stainless steel, No. 4 finish (satin).
- G. Multi-roll Toilet Paper & Seat Cover Dispenser (TTD2):
1. Mounting: Wall Mounted recessed.
  2. Description: Double-roll dispenser, Toilet Seat Cover dispenser.
  3. Handicapped Accessible
  4. Capacity: Designed for 4-1/2- or 5-inch- (114- or 127-mm-) diameter tissue rolls, Toilet Seat Cover dispenser holds 500 paper covers.
  5. Material and Finish: Stainless steel, No. 4 finish (satin).
- H. Toilet Tissue Dispenser (TTD3):

1. Mounting: Wall Mounted.
  2. Description: Double-roll dispenser with hoods.
  3. Capacity: Designed for 4-1/2- or 5-inch- (114- or 127-mm-) diameter tissue rolls.
  4. Material and Finish: Stainless steel, No. 4 finish (satin).
- I. Multi-roll Toilet Paper & Seat Cover Dispenser w/ Sanitary Napkin Disposal (TTD4):
1. Mounting: Partition Mounted serves two toilet compartments
  2. Description: Double-roll dispenser, Toilet Seat Cover dispenser, Sanitary Napkin Disposal.
  3. Handicapped Accessible
  4. Capacity: Designed for 4-1/2- or 5-inch- (114- or 127-mm-) diameter tissue rolls, Toilet Seat Cover dispenser holds 1000 paper covers.
  5. Material and Finish: Stainless steel, No. 4 finish (satin).
- J. Multi-roll Toilet Paper & Seat Cover Dispenser (TTD5):
1. Mounting: Partition Mounted serves two toilet compartments
  2. Description: Double-roll dispenser, Toilet Seat Cover dispenser.
  3. Handicapped Accessible
  4. Capacity: Designed for 4-1/2- or 5-inch- (114- or 127-mm-) diameter tissue rolls, Toilet Seat Cover dispenser holds 1000 paper covers.
  5. Material and Finish: Stainless steel, No. 4 finish (satin).
- K. Robe Hook (TP):
1. Mounting: Surface Mounted.
  2. Material and Finish: Stainless steel, No. 4 finish (satin).
  3. Refer to drawings for mounting heights.
- L. Mirror, Full Length (M1)
1. Mounting: Surface Mounted. Refer to drawings for size.
  2. Material and Finish: Stainless steel, satin finish.
  3. Description: No. 1 quality, 6mm (1/4-inch) select float glass; all edges protected by plastic filler strips. Back is protected by full-size, shock-absorbing, water resistant, non-abrasive, 5mm (3/16-inch) thick polyethylene padding.
- M. Mirror, (MG)
1. Mounting: Surface Mounted.
  2. Material and Finish: Stainless steel, satin finish.
  3. Description: No. 1 quality, 6mm (1/4-inch) select float glass; all edges protected by plastic filler strips. Back is protected by full-size, shock-absorbing, water resistant, non-abrasive, 5mm (3/16-inch) thick polyethylene padding.

## N. Paper Towel (Folded) Dispenser &amp; Waste Recepticle (PTD):

1. Mounting: Semirecessed.
2. Minimum Capacity: 600 C-fold or 800 multifold or 1100 singlefold paper towels.
3. Material and Finish: Stainless steel, No. 4 finish (satin).
4. Lockset: 2 Tumbler type keyed locks .
5. Waste Container: Leakproof, rigid molded plastic. Removable for servicing. Capacity 6.3 gal.

## 2.3 PUBLIC-USE SHOWER ROOM ACCESSORIES

## A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:

1. A & J Washroom Accessories, Inc.
2. American Specialties, Inc.
3. Bobrick Washroom Equipment, Inc.
4. Bradley Corporation.

## B. Shower Curtain Rod (SCR):

1. Description: Curved shower curtain, 1-inch diameter; stainless steel, seamless construction with exposed surfaces.
2. Mounting Flanges: Stainless-steel flanges designed for exposed fasteners.
3. Finish: No. 4 (satin).
4. Location: Locate at all showers.
5. Refer to drawings for mounting heights.

## C. Shower Curtain (SC):

1. Size: Minimum 12 inches (305 mm) wider than opening by 72 inches (1828 mm) high.
2. Material: Nylon-reinforced vinyl, minimum 10 oz. (284 g) or 0.008-inch- (0.2-mm-) thick vinyl, with integral antibacterial agent.
3. Color: As selected from manufacturer's full range.
4. Grommets: Corrosion resistant at minimum 6 inches (152 mm) o.c. through top hem.
5. Location: Locate at all showers.

## D. Shower Curtain Hook (SCH):

1. Chrome-plated or stainless-steel, spring wire curtain hooks with snap fasteners, sized to accommodate specified curtain rod. Provide one hook per curtain grommet.
2. Location: Locate at all showers with shower curtains.

## E. Folding Shower Seat (FS):

1. Configuration: L-shaped seat, designed for wheelchair access.
2. Seat: Phenolic or polymeric composite of slat-type or one-piece construction in color as selected by Architect.

3. Mounting Mechanism: Stainless steel, No. 4 finish (satin).
4. Dimensions and location: Refer to drawings.

F. Soap Dish (SD):

1. Description: Wall mounted soap dish.
2. Mounting: Surface mounted.
3. Material and Finish: Tile to match or coordinate with adjacent wall tile.
4. Location: Locate at all showers.
5. Refer to drawings for mounting heights.

## 2.4 CUSTODIAL ACCESSORIES

A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:

1. A & J Washroom Accessories, Inc.
2. American Specialties, Inc.
3. Bobrick Washroom Equipment, Inc.
4. Bradley Corporation.

B. Utility Shelf (US):

1. Description: With exposed edges turned down not less than 1/2 inch (13 mm) and supported by two triangular brackets welded to shelf underside. Mop and broom holders and rag hooks.
2. Size: 36 inches long by 6 inches (152 mm) deep.
3. Material and Finish: Not less than nominal 0.05-inch- (1.3-mm-) thick stainless steel, No. 4 finish (satin).

C. Mop and Broom Holder (MS):

1. Description: Unit with shelf, hooks, holders.
2. Length: 36 inches (914 mm).
3. Hooks: Three.
4. Mop/Broom Holders: Four, spring-loaded, rubber hat, cam type.
5. Material and Finish: Stainless steel, No. 4 finish (satin).
  - a. Rod: Approximately 1/4-inch- (6-mm-) diameter stainless steel.

D. Paper Towel (Folded) Dispenser (PT):

1. Mounting: Semirecessed.
2. Minimum Capacity: 600 C-fold or 800 multifold towels.
3. Material and Finish: Stainless steel, No. 4 finish (satin).
4. Lockset: Tumbler type.
5. Refill Indicators: Pierced slots at sides or front.

E. Liquid-Soap Dispenser (SD-2):

1. Description: Designed for dispensing soap in liquid form.

2. Mounting: Vertically oriented, surface mounted].
3. Capacity: 32 oz. (mL) minimum.
4. Materials: Translucent container.
5. Lockset: Keyless locking device.
6. Refill Indicator: Window type.

F. Waste Receptacle (WR):

1. Mounting: Surface mounted.
2. Capacity: 20 gal. (75.7 L).
3. Material and Finish: Stainless steel, No. 4 finish (satin).
4. Liner: Removable Heavy gauge liner.

## 2.5 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
- B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

## PART 3 - EXECUTION

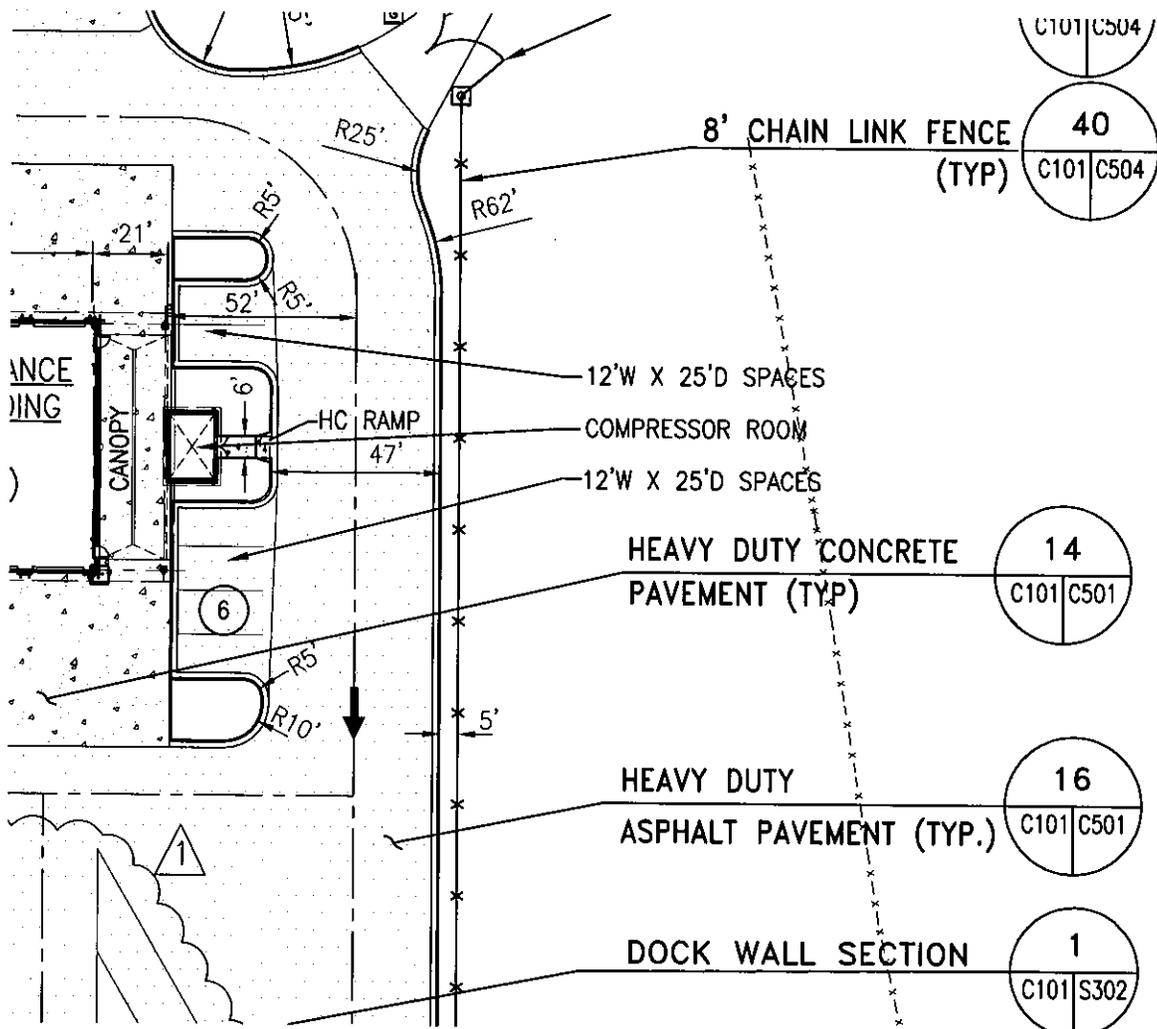
### 3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
- B. Grab Bars: Install to withstand a downward load of at least 250 lbf (1112 N), when tested according to ASTM F 446.

### 3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings.
- C. Clean and polish exposed surfaces according to manufacturer's written recommendations.

END OF SECTION 102800



Architects Engineers Planners

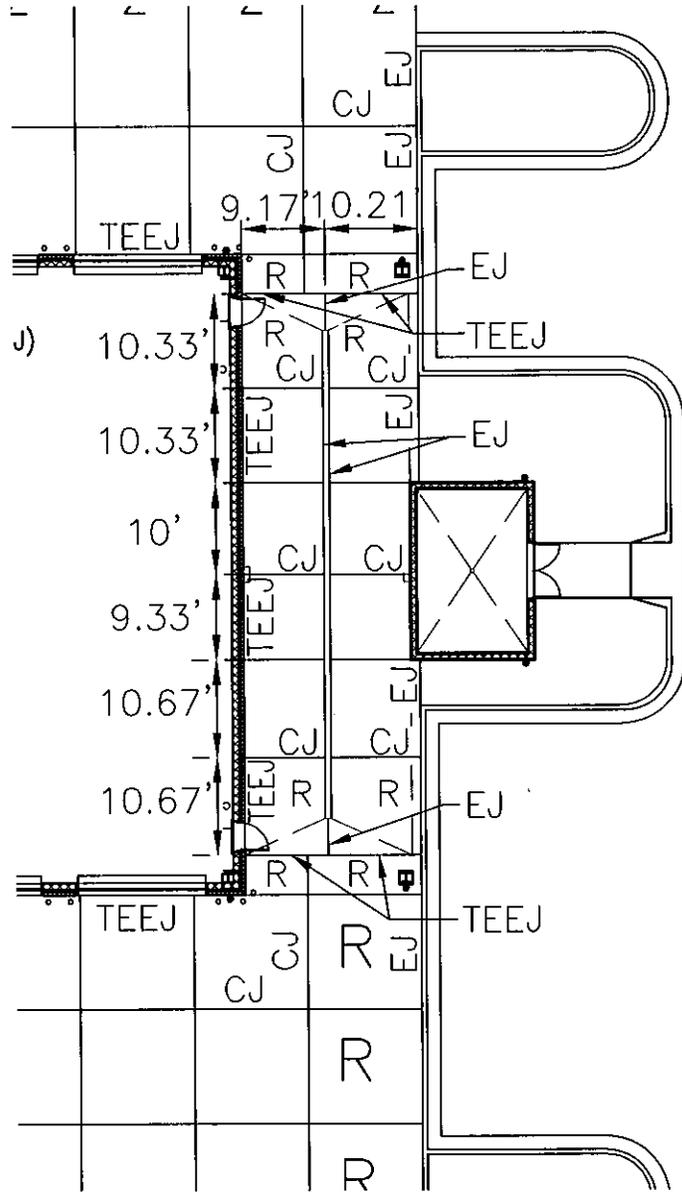
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 PROJECT NO.: 1110247

DATE: 11/14/2012

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NORTH FULTON MAINTENANCE AND OPERATIONS CENTER - W026  
 PROJECT NO.: 1110247

DATE: 11/14/2012

DRAWING NO.

FS-C403-1

**SECTION 071353 - SELF-ADHERING SHEET WATERPROOFING****PART 1 GENERAL**

## 1.1 1. SUMMARY

- A. Section includes self-adhering modified bituminous sheet waterproofing at the Maintenance Building Pit and as indicated on the drawings..

## 1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

## 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Show locations and extent of waterproofing and details of substrate joints and cracks, sheet flashings, penetrations, inside and outside corners, tie-ins with adjoining waterproofing, and other termination conditions.

## 1.4 INFORMATIONAL SUBMITTALS

- A. Sample warranties.

## 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by waterproofing manufacturer.

## 1.6 WARRANTY

- A. Manufacturer's Warranty: Manufacturer's standard materials-only warranty in which manufacturer agrees to furnish replacement waterproofing material for waterproofing that does not comply with requirements or that fails to remain watertight within specified warranty period.

- 1. Warranty Period: Five years from date of Substantial Completion.

## PART 2 PRODUCTS

### 2.1 MATERIALS - GENERAL

Provide one of the types of elastomeric waterproofing sheet material and related primers, adhesives, and mastics as specified herein. Ensure compatibility of waterproofing materials within a specific type, with each other, and with the materials on which they will be applied. Materials shall conform to the applicable performance requirements cited below when tested in accordance with the referenced ASTM publications.

### 2.2 BASIS OF DESIGN PRODUCT

Subject to compliance with requirements provide pre-applied self-adhering sheet waterproofing Preprufe 300 fully adhered waterproofing system by Grace Construction Products and post-applied self-adhering sheet waterproofing bitumen 3000 primed and fully adhered waterproofing system or comparable product by single source manufacturer.

### 2.3 MATERIALS

- A. Sheet Membrane Waterproofing: Bituthene® 3000/Low Temperature Membrane by Grace Construction Products; a self-adhesive, cold-applied composite sheet consisting of a thickness of 1.4 mm (0.056 in.) of rubberized asphalt and 0.1 (0.004 in.) of cross-laminated, high density polyethylene film. Provide rubberized asphalt membrane covered with a release sheet, which is removed during installation. No special adhesive or heat shall be required to form laps.
- B. Sheet Membrane Waterproofing.

Property	Test Method	Typical Value
Color		Dark gray-black
Thickness	ASTM D 3767 Method A	1.5 mm (0.060 in.) nominal
Flexibility, 180o bend over 25 mm (1 in.) mandrel at -43oC (-45oF)	ASTM D 1970	Unaffected
Tensile Strength, Membrane Die C	ASTM D 412 Modified 1	2240 kPa (325 lbs/in.2) minimum
Tensile Strength, Film	ASTM D 882 Modified1	34.5 MPa (5,000 lbs/in.2)
Elongation, Ultimate Failure of Rubberized Asphalt	ASTM D 412 Modified 1	300% minimum

Crack Cycling at -32oC (-25oF), 100 Cycles	ASTM C 836	Unaffected
Lap Adhesion at Minimum Application Temperature	ASTM D 1876 Modified2	700 N/m(4 lbs/in.)-Bituthene 3000 880 N/m(5 lbs/in.)-Low Temperature
Peel Strength	ASTM D 903 Modified3	1576 N/m (9 lbs/in.)
Puncture Resistance, Membrane	ASTM E 154	222 N (50 lbs.) minimum
Resistance to Hydrostatic Head	ASTM D 5385	60 m (200 ft) of water
Permeance	ASTM E 96, Section 12 - Water Method	2.9 ng/m <sup>2</sup> sPa (0.05 perms) maximum
Water Absorption	ASTM D 750	0.1% maximum

## Footnotes:

1. The test run at a rate of 50 mm (2 in.) per minute.
2. The test is conducted 15 minutes after the lap is formed and run at a rate of 50 mm (2 in.) per minute at -4°C(25°F).
3. The 180° peel strength is run at a rate of 300 mm (12 in.) per minute.

C. Prefabricated Drainage Composite: (Hydroproduct® 220)(Hydroduct® 660) Drainage Composite by Grace Construction Products. Drainage Composite shall be designed to promote positive drainage while serving as a protection course.

D. Protection Board: (in lieu of prefabricated Drainage Composite)

1. Expanded Polystyrene Protection Board: 25 mm (1 in.) thick for vertical applications with the following characteristics. Adhere to waterproofing membrane with Bituthene Protection Board Adhesive/

Normal Density: 16kg/m<sup>3</sup> (1.0 lb/ft<sup>3</sup>)

Thermal Conductivity, K factor: 0.24 at 5°C(40°F),0.26 at 24°C (75°F)

Thermal Resistance, R-Value: 4 per 25 mm (1 in.) of thickness

2. Asphalt Hardboard: A premolded semi-rigid protection board consisting of bitumen, mineral core and reinforcement. Provide 3 mm (0.125 in.) thick hardboard on horizontal surfaces not receiving steel reinforced slab. Where steel reinforcing bars are to be used, apply two layers of 3 mm(0.125 in.) thick hardboard or one layer of 6 mm(0.25 in.) thick hardboard.

E. Waterstop: Adcor™ ES hydrophilic non-bentonite waterstop by Grace Construction Products for non-moving concrete construction joints.

## Footnotes:

1. Elongation of membrane is run at a rate of 50 mm (2 in.) per minute.

2. Concrete is cast against the protective coating surface of the membrane and allowed to cure (7 days minimum). Peel adhesion of membrane to concrete is measured at a rate of 50 mm (2 in.) per minute at room temperature.

3. The test is conducted 15 minutes after the lap is formed as per manufacturer's instructions and run at a rate of 50 mm (2 in.) per minute at  $-4^{\circ}\text{C}(25^{\circ}\text{F})$ .

4. Hydrostatic head tests are performed by casting concrete against the membrane with a lap. Before the concrete sets a 3 mm (0.125 in.) spacer is inserted perpendicular to the membrane to create a gap. The cured block is placed in a chamber where water is introduced to the membrane surface up to a head of 70 m (231 ft) of water which is the limit of the apparatus.

F. Pre-applied Integrally Bonded Sheet Waterproofing Membrane: Preprufe® 300R Membrane by Grace Construction Products, a 1.2 mm (0.046 in) nominal thickness composite sheet membrane comprising 0.8 mm (0.030 in.) of high density polyethylene film, and layers of specially formulated synthetic adhesive layers. The membrane shall form an integral and permanent bond to poured concrete to prevent water migration at the interface of the membrane and structural concrete. Provide membrane with the following physical properties:

PHYSICAL PROPERTIES FOR PRERUFE 300R MEMBRANE:

Property	Test Method	Typical Value
Color		White
Thickness	ASTM D 3767 Method A	1.2 mm (0.046 in.) nominal
Low Temperature Flexibility	ASTM D 1970	Unaffected at $-23^{\circ}\text{C}(-10^{\circ}\text{F})$
Elongation	ASTM D 412 Modified 1	>300%
Crack Cycling at $-23^{\circ}\text{C}(-10^{\circ}\text{F})$ , 100 Cycles	ASTM C 836	Unaffected
Tensile Strength, Film	ASTM D 412	27.6 MPa(4,000 lbs/in.2) minimum
Peel Adhesion to Concrete	ASTM D 903 Modified2	880 N/m(5.0 lbs/in.)
Lap Adhesion	ASTM D 1876 Modified3	440 N/m (2.5 lbs/in.)
Resistance to Hydrostatic Head	ASTM D 5385 Modified4	>70 m (231 ft)
Puncture Resistance	ASTM E 154	990 N (180 lbs) minimum

Permeance	ASTM E 96 Method B	<0.6 ng/m <sup>2</sup> sPa (0.01 perms)
Water Absorption	ASTM D 570	<0.5%

- G. Miscellaneous Materials: Surface conditioner, mastic, liquid membrane, tape and accessories specified or acceptable to manufacturer of sheet membrane waterproofing.

## PART 3 EXECUTION

### 3.1 VERIFICATION OF CONDITIONS

Before starting the work, verify that surfaces to be waterproofed are in satisfactory condition. Notify the Contracting Officer of defects or conditions that will prevent a satisfactory application. Do not start application until defects and conditions have been corrected.

### 3.2 SURFACE PREPARATION

Ensure surfaces to be treated are clean, dry, smooth, and free from deleterious materials and projections. Thoroughly wet holes, joints, cracks, and voids in masonry concrete with water and fill with Portland cement mortar, strike flush, and permit to dry. Cut off high spots or grind smooth. Finish top surfaces of projecting masonry or concrete ledges below grade, except footings, to a steep bevel with Portland cement mortar. Sweep surfaces to be covered before applying waterproofing to remove dust and foreign matter. Cure concrete by a method compatible with the waterproofing system.

### 3.3 APPLICATION

Follow manufacturer's printed installation instructions. When using solvent welding liquid, avoid prolonged contact with skin and breathing of vapor. Carry waterproofing of horizontal surfaces up abutting vertical surfaces as indicated and adhere solid to the substrate. Avoid wrinkles and buckles in applying membrane and joint reinforcement.

### 3.4 PREPARATION OF SUBSTRATES FOR BITUTHENE 3000

- A. Refer to manufacturer's literature for requirements for preparation of substrates. Surfaces shall be structurally sound and free of voids, spalled areas, loose aggregate and sharp protrusions. Remove contaminants such as grease, oil and wax from exposed surfaces. Remove dust, dirt, loose stone and debris. Use repair materials and methods which are acceptable to manufacturer of sheet membrane waterproofing.

#### B. Cast-In-Place Concrete Substrates:

1. Do not proceed with installation until concrete has properly cured and dried (minimum 7 days for normal structural concrete and minimum 14 days for lightweight structural concrete).
2. Fill form tie rod holes with concrete and finish flush with surrounding surface.
3. Repair bugholes over 13 mm (0.5 in.) in length and 6 mm (0.25 in.) deep and finish flush with surrounding surface.
4. Remove scaling to sound, unaffected concrete and repair exposed area.
5. Grind irregular construction joints to suitable flush surface.

- C. Masonry Substrates: Apply waterproofing over concrete block and brick with smooth trowel-cut mortar joints or parge coat.
- D. Wood Substrates: Apply waterproofing membrane over securely fastened sound surface. All joints and fasteners shall be flush to create a smooth surface.
- E. Related Materials: Treat joints and install flashing as recommended by waterproofing manufacturer.

### 3.5 INSTALLATION

- A. Refer to manufacturer's literature for recommendations on installation, including but not limited to, the following:
  - 1. Apply primer at rate recommended by manufacturer. Recoat areas not waterproofed if contaminated by dust. Mask and protect adjoining exposed finish surfaces to protect those surfaces from excessive application of primer.
  - 2. Delay application of membrane until primer is completely dry. Dry time will vary with weather conditions.
  - 3. Seal daily terminations with troweled bead of mastic.
  - 4. Apply protection board and related materials in accordance with manufacturer's recommendations.

### 3.6 CLEANING AND PROTECTION

- A. Remove any masking materials after installation. Clean any stains on materials which would be exposed in the completed work.
- B. Protect completed membrane waterproofing from subsequent construction activities as recommended by manufacturer.

### 3.7 INSTALLATION, VERTICAL APPLICATIONS FOR PREPURGE 200

- A. Substrates shall be smooth and sound. Suitable substrates include Hydroduct® Drainage Composites by Grace Construction Products or plywood.
- B. Strictly comply with installation instructions in manufacturer's published literature, including but not limited to, the following:
  - 1. Apply membrane with the HDPE film facing the prepared soil retention system (wood lagging, sheet piling, gunite, shotcrete, etc.). Remove the release liner and fasten membrane along uncoated edge to Hydroduct drainage composite with large head nails or to plywood with large head nails or staples.
  - 2. Apply succeeding sheets by overlapping the previous sheet 75 mm(3 in.) along the uncoated edge of the membrane. Side laps must be firmly rolled to ensure a tight seal.
  - 3. Overlap the ends of the membrane 75mm(3 in.). Apply Preprufe® Tape centered over the end lap and roll firmly to ensure a tight seal. Remove release liner.

### 3.8 INSTALLATION, HORIZONTAL APPLICATIONS

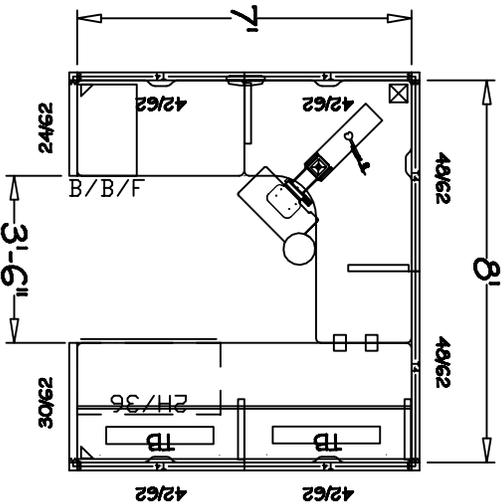
- A. Earth and stone substrates shall be well compacted to produce an even, solid substrate. Remove loose aggregate or sharp protrusions. Concrete substrates shall be smooth or broom finished and monolithic. Fill gaps or voids greater than 13 mm(0.5 in.). Remove standing water prior to membrane applications.

- B. Strictly comply with installation instructions in manufacturer's published literature, including but not limited to, the following:
1. Apply membrane with the HDPE film facing the prepared substrate. Remove the release liner during application.
  2. Apply succeeding sheets by overlapping the previous sheet 75 mm(3 in.) along the uncoated edge of the membrane. Lap area must be firmly rolled to ensure a tight seal.
  3. Overlap the ends of the membrane 75mm(3 in.). Apply Preprufe® Tape centered over the end lap and roll firmly to ensure a tight seal.

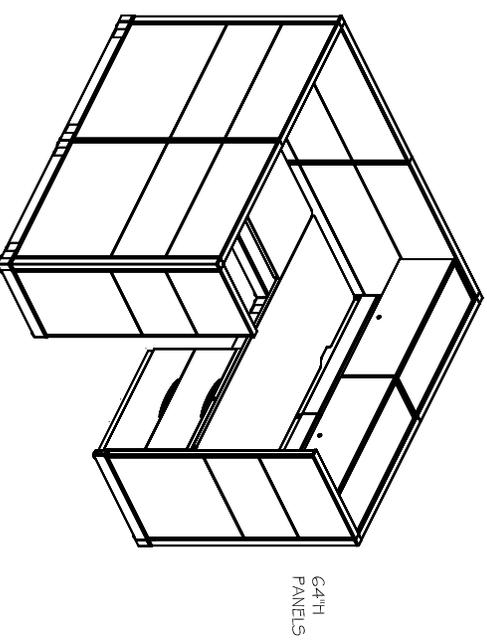
### 3.9 PROTECTION

- A. Protect membrane in accordance with manufacturer's recommendations until placement of concrete. Inspect for damage prior to placement of concrete and make repairs in accordance with manufacturer's recommendations.

-- End of Section --



PLAN VIEW



3D VIEW



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results,  
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fax 904.398.5095  
1326000950

CLIENT/PROJECT:  
**POND & COMPANY**

DESCRIPTION:  
**WORKSTATION TYPICAL**

SCALE:  
1/4" = 1' - 0"

DRAWN BY:  
KB

SHEET NO.  
1 OF 1

DATE:  
11.15.12

web site: [www.oesjax.com](http://www.oesjax.com)

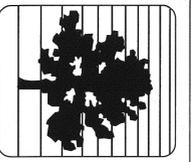
DOOR AND FRAME SCHEDULE

NO.	LOCATION	DOORS			FRAMES			DETAIL			RATING LABEL	REMARKS	
		SIZE	W. x H.	TYPE	MATL.	FINISH	TYPE	MATL.	FINISH	HEAD			JAMB
100	FIRST FLOOR	PR-3'-0" x 7'-10"	W1	ALUM.	PAINT	W1	ALUM.	PAINT	21/2604	28/2604	28/2604		
101	VESTIBULE	PR-3'-0" x 7'-10"	W4	ALUM.	PAINT	W4	ALUM.	PAINT	21/2604	28/2604	28/2604		
102	RECORDS ROOM	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604		3/4 hr.	
103A	SMALL/O.C. CONFERENCE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604		3/4 hr.	
103B	SMALL/O.C. CONFERENCE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	10/2604	17/2604		3/4 hr.	
104	RECORDS STORAGE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
105	PANTRY	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	13/2604	20/2604			
106	PATCH ROOM	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604		3/4 hr.	
107	CORRIDOR J	3'-0" x 8'-0"	B	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
108	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
109	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
110	NOT USED												
111	NOT USED												
112	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
113	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
114	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
115	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
116	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
117	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
118	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
119	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
120	NOT USED												
121	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
122	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
123	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
124A	OPEN WORK AREA	5'-0" x 8'-0"				7	HM	PAINT	13/2604	20/2604		3/4 hr.	
124B	OPEN WORK AREA	5'-0" x 8'-0"				7	HM	PAINT	13/2604	20/2604		3/4 hr.	
125A	TRAINING ROOM	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	10/2604	17/2604			
125B	NOT USED												
125C	TRAINING ROOM	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	10/2604	17/2604		3/4 hr.	
126	E.O.C. STORAGE	4'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	10/2604	17/2604		3/4 hr.	
127	E.O.C. KITCHEN	4'-0" x 8'-0"	B	SCWD	STAIN	1	HM	PAINT	10/2604	17/2604		3/4 hr.	
128A	BREAK ROOM	3'-0" x 7'-0"	C	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
128B	BREAK ROOM	3'-0" x 7'-0"	W8	ALUM.	PAINT	W8	ALUM.	PAINT	23/2604	25/2604	28/2604		
129	NOT USED												
130	NOT USED												
131	BREAK ROOM STORAGE	3'-0" x 7'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
132	VESTIBULE	3'-0" x 8'-0"	W7	ALUM.	PAINT	W7	ALUM.	PAINT	23/2604			3/4 hr.	
133A	STAR 3	3'-0" x 7'-8"	B	SCWD	STAIN	2	HM	PAINT	4/2603	9/2603			
133B	STAR 3	3'-0" x 7'-8"	A	G.H.M.	PAINT	6	HM	PAINT	1/2603	5/2603	9/2603		
134	CORRIDOR C	3'-0" x 7'-8"	N	H.M.	PAINT	2	HM	PAINT	4/2603	9/2603		3/4 hr.	
135	SERVICE CREW	3'-0" x 8'-0"	C	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
136	UTILITIES LOCKERS	3'-0" x 8'-0"	C	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
137	NOT USED												
138	TELEMETRY	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
139	WOMEN LOCKER ROOM	3'-0" x 8'-0"	P	G.H.M.	PAINT	1	G.H.M.	PAINT	10/2603	16/2603	10/2603		
140	NOT USED												
141	MEN'S LOCKER ROOM	3'-0" x 8'-0"	P	G.H.M.	PAINT	1	G.H.M.	PAINT	10/2603	16/2603	10/2603		
142	PATCH ROOM	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
143	STORAGE ROOM	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
144	JUNIOR CLOSET	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
145	SUPER CREW	3'-0" x 8'-0"	C	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
146	NOT USED												
147	CREW STORAGE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
148	METER STORAGE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
149	METER ROOM	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
150	NOT USED												
151A	STAR 2	3'-0" x 8'-8"	A	G.H.M.	PAINT	6	G.H.M.	PAINT	1/2603	5/2603	9/2603		
151B	STAR 2	3'-0" x 7'-8"	B	SCWD	STAIN	2	HM	PAINT	4/2603	9/2603		3/4 hr.	
152	VESTIBULE	3'-0" x 7'-8"	A	ALUM.	PAINT	23/2604	25/2604	28/2604					
153	OFFICE	3' x 7'	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
154	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
155	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
156	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
157	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
158	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
159	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
160	NOT USED												
161	OFFICE	3'-0" x 8'-0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
162	OFFICE	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
163	OFFICE	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
164	OFFICE	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
165	NOT USED												
166	OFFICE	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			

DOOR AND FRAME SCHEDULE

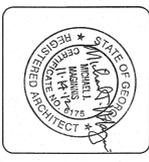
NO.	LOCATION	DOORS			FRAMES			DETAIL			RATING LABEL	REMARKS	
		SIZE	W. x H.	TYPE	MATL.	FINISH	TYPE	MATL.	FINISH	HEAD			JAMB
167	FIRST FLOOR CONTINUED	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604		3/4 hr.	
168	OPEN OFFICE	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604		3/4 hr.	
169	CORRIDOR G	3'0" x 8'0"	B	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604		3/4 hr.	
170	NOT USED												
171	CORRIDOR D	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
172	PLANNER/SCHEDULER	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
173	DISPATCH	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
174	NOT USED												
175	MAINTENANCE CREW	3'0" x 8'0"	C	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
176	UTILITY LOCKER CREW	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
177	CORRIDOR F	3'0" x 8'0"	B	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
178	NOT USED												
179	ELECTRIC ROOM	3'0" x 8'0"	P	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604		24" x 18" DOOR GRILLE	
180	INTER	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
181	COMPUTER SERVER	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
182	PANTRY	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
183	OPEN OFFICE	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604			
184	COPY/SUPPLY	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	13/2604	20/2604			
185	ELEVATOR MACHINE	3'0" x 8'0"	A	SCWD	STAIN	1	HM	PAINT	7/2604	14/2604		3/4 hr.	
186	NOT USED												
187	WOMEN RESTROOM	3'0" x 7'0"	P	SCWD	STAIN	1	HM	PAINT	10/2603	16/2603	10/2603		
188	MEN RESTROOM	3'0" x 7'0"	P	SCWD	STAIN	1	HM	PAINT	10/2603	16/2603	10/2603		
189	NOT USED												
190	TELEPHONE ROOM	3'0" x 7'0"	A	HM	PAINT	2	HM	PAINT	3/2603	7/2603			
191	CORRIDOR H	3'0" x 8'0"	B	SCWD	STAIN	4	HM	PAINT	7/2604	14/2			

NOTE:  
1. ALL DOORS ARE 1 3/4" THICKNESS UNLESS NOTED OTHERWISE.



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BY	DATE
	11/18/2011
	01/13/2012
	11/14/2012

SYMBOL	DESCRIPTION
	ISSUED FOR BID
	CITY OF ROSWELL PERMIT SUBMITTAL SET (CIVIL PLANS ONLY)
	REVISION 1 - ADDENDUM NO. 3, NOVEMBER 14, 2012

NORTH FULTON MAINTENANCE AND OPERATIONS CENTER-WO26  
ROSWELL, GEORGIA

**MAINTENANCE & GREENHOUSE BUILDING DOOR SCHEDULE**

DRAWING NUMBER:  
**A-604**

SHEET

DESIGNED BY: EBA  
CHECKED BY: MAM  
ISSUED DATE: 11/18/2011  
Job Number: 1110247

DOOR NO.	LOCATION	DOORS		FRAMES			DETAIL			FIRE RATING LABEL	REMARKS		
		SIZE W. x H.	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	HEAD			JAMB	SILL
101	MAINTENANCE BUILDING OFFICE	3'0" X 7'0"	C	GHM	PAINT	2	GHM	PAINT	9/AS04	7/AS03	-	-	CHAINLINK GATE. SEE SHEET A-507
102	BALANCING & PARTS ROOM	PR 4'0" X 8'0"	-	-	-	-	-	-	-	-	-	-	-
103	ELECTRIC	3'0" X 7'0"	A	GHM	PAINT	2	GHM	PAINT	9/AS04	7/AS03	-	-	-
104	JANITOR CLOSET	3'0" X 7'0"	A	GHM	PAINT	2	GHM	PAINT	9/AS04	7/AS03	-	-	-
105	SPRINKLER ROOM	3'0" X 7'0"	A	GHM	PAINT	2	GHM	PAINT	25/AS04	29&30/AS04	-	-	-
106	WOMEN RESTROOM	3'0" X 7'0"	P	GHM	PAINT	2	GHM	PAINT	9/AS04	7/AS04	-	-	18" X 18" DOOR GRILLE
107	MEN RESTROOM	3'0" X 7'0"	P	GHM	PAINT	2	GHM	PAINT	9/AS04	7/AS04	-	-	18" X 18" DOOR GRILLE
108	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-
109A	BAY ENTRANCE 1	3'0" X 7'0"	B	GHM	PAINT	2	GHM	PAINT	25/AS04	29&30/AS04	-	-	MOTORIZED
109B	BAY 1	14'0" X 16'0"	F	-	-	-	-	-	11/AS03	12/AS03	-	-	MOTORIZED
109C	BAY 1	14'0" X 16'0"	F	-	-	-	-	-	11/AS03	12/AS03	-	-	MOTORIZED
109D	BAY ENTRANCE 2	3'0" X 7'0"	B	GHM	PAINT	2	HM	PAINT	25/AS04	29&30/AS04	-	-	MOTORIZED
110A	BAY 2	14'0" X 16'0"	F	-	-	-	-	-	11/AS03	12/AS03	-	-	MOTORIZED
110B	BAY 2	14'0" X 16'0"	F	-	-	-	-	-	11/AS03	12/AS03	-	-	MOTORIZED
111A	BAY 3	14'0" X 16'0"	F	-	-	-	-	-	11/503	12/AS03	-	-	MOTORIZED
111B	BAY 3	14'0" X 16'0"	F	-	-	-	-	-	11/AS03	12/AS03	-	-	MOTORIZED
112A	BAY 4	14'0" X 16'0"	F	-	-	-	-	-	11/AS03	12/AS03	-	-	MOTORIZED
112B	PIT BAY ENTRANCE 1	14'0" X 16'0"	F	-	-	-	-	-	11/AS03	12/AS03	-	-	MOTORIZED
112C	PIT BAY ENTRANCE 2	3'0" X 7'0"	A	GHM	PAINT	2	GHM	PAINT	25/AS04	29&30/AS04	-	-	-
112D	BAY 4	3'0" X 7'0"	A	GHM	PAINT	2	GHM	PAINT	25/AS04	29&30/AS04	-	-	-
113	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-
114	COMPRESSOR ROOM	PR 3'0" X 7'0"	E	GHM	PAINT	3	GHM	PAINT	25/AS04	29&30/AS04	-	-	-

GREENHOUSE ADMIN. OFFICE

DOOR NO.	LOCATION	DOORS		FRAMES			DETAIL			FIRE RATING LABEL	REMARKS		
		SIZE W. x H.	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	HEAD			JAMB	SILL
301A	GREENHOUSE ADMIN. OFFICE OFFICE ENTRANCE 1	3'-0" X 7'-0"	A	GHM	PAINT	2	GHM	PAINT	29&30 AS04	25/AS04	-	-	-
301B	OFFICE ENTRANCE 2	3'-0" X 7'-0"	A	GM	PAINT	2	GM	PAINT	29&30 AS04	25/AS04	-	-	-
302	TOOL STORAGE	3'-0" X 7'-0"	C	HM	PAINT	5	HM	PAINT	7/AS04	14/AS04	-	-	-
303	RESTROOM GREENHOUSE	3'-0" X 7'-0"	O	HM	PAINT	5	HMO	PAINT	7/AS04	14/AS04	-	-	3/4" UNDERCUT
304A	GREENHOUSE 401	PR. 3' X 7'	-	-	-	-	-	-	-	-	-	-	DOOR & FRAME BY GREENHOUSE MFR.
304B	GREENHOUSE 401	PR. 3' X 7'	-	-	-	-	-	-	-	-	-	-	DOOR AND FRAME BY GREENHOUSE MFG
305A	GREENHOUSE 402	PR. 3' X 7'	-	-	-	-	-	-	-	-	-	-	DOOR AND FRAME BY GREENHOUSE MFG
305B	GREENHOUSE 402	PR. 3' X 7'	-	-	-	-	-	-	-	-	-	-	DOOR AND FRAME BY GREENHOUSE MFG
306A	GREENHOUSE 403	PR. 3' X 7'	-	-	-	-	-	-	-	-	-	-	DOOR AND FRAME BY GREENHOUSE MFG
306B	GREENHOUSE 403	PR. 3' X 7'	-	-	-	-	-	-	-	-	-	-	DOOR AND FRAME BY GREENHOUSE MFG
307A	GREENHOUSE 404	PR. 3' X 7'	-	-	-	-	-	-	-	-	-	-	DOOR AND FRAME BY GREENHOUSE MFG
307B	GREENHOUSE 404	PR. 3' X 7'	-	-	-	-	-	-	-	-	-	-	DOOR AND FRAME BY GREENHOUSE MFG