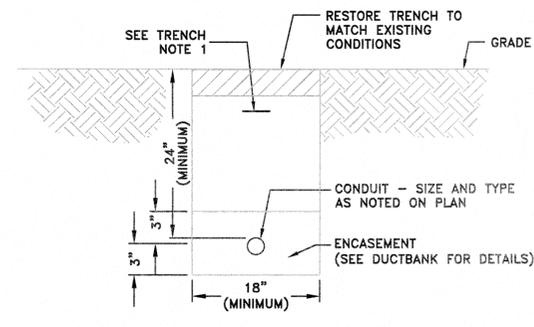
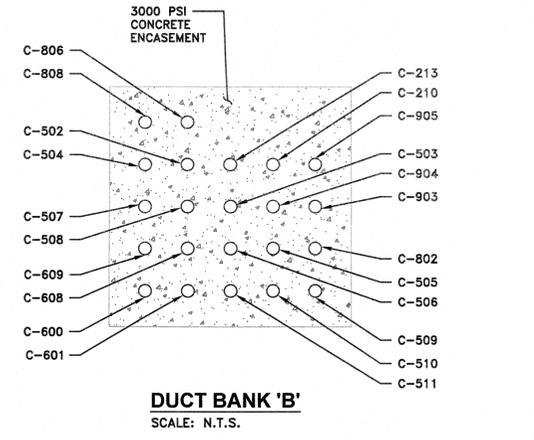
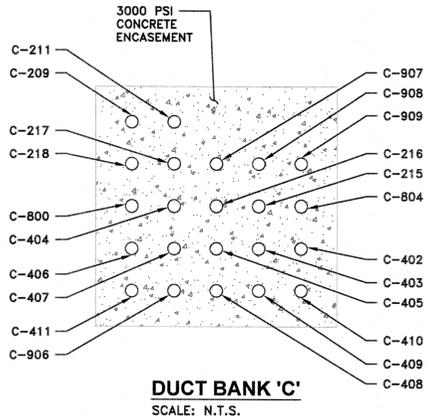
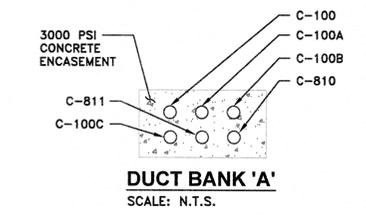


ELECTRICAL CONSTRUCTION NOTES:

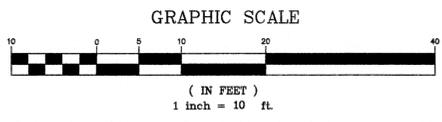
1. THE ELECTRICAL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, CONTRACT SPECIFICATIONS, MANUFACTURER REQUIREMENTS AND ANY OTHER STATE OR LOCAL CODE HAVING JURISDICTION.
2. ALL CONDUIT RUNS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. THE FINAL ROUTING OF CONDUITS SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND APPROVED BY THE ENGINEER. CONDUIT SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS. CONDUIT SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTIONS TO EQUIPMENT.
3. ALL POWER AND CONTROL WIRING SHALL BE STRANDED COPPER CONDUCTOR WITH XHHW INSULATION RATED 600 VOLTS.
4. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ELECTRICAL WIRE RACEWAYS, APPARATUS AND PANEL ENCLOSURES AND OTHER NON-CURRENT CARRYING METAL PARTS SHALL BE MECHANICALLY JOINED TO FORM A CONTINUOUS CONDUCTING METALLIC PATH AND ASSURE ELECTRICAL CONTINUITY OF THE GROUNDING CIRCUITS. THE STRANDED COPPER BONDING JUMPER CABLES AND/OR GROUND WIRES SHALL BE INSTALLED WHERE REQUIRED. THE SURFACE WHERE GROUNDING CONNECTIONS ARE TO BE MADE SHALL BE CLEAN AND DRY. STEEL SURFACES SHALL BE GROUND OR FILED TO REMOVE ALL SCALE, RUST, GREASE AND DIRT. COPPER AND GALVANIZED STEEL SHALL BE CLEANED WITH EMERY CLOTH TO REMOVE OXIDE BEFORE MAKING CONNECTIONS.
5. THE CONTRACTOR SHALL INSTALL UL LISTED CONDUIT SEALS IN ALL CONDUIT RUNS ENTERING OR LEAVING HAZARDOUS LOCATION, SUCH AS ENCLOSURES, APPARATUS, PANELS, BUILDING, ETC., AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, ARTICLES 500, 501 AND 502, EXCEPT AS OTHERWISE NOTED.
6. ALL FIELD WIRING TERMINATIONS SHALL BE MADE AT TERMINALS LOCATED IN THE INDIVIDUAL COMPARTMENTS OR ENCLOSURES. USE OF WIRE NUTS OR DIRECT WIRING WILL NOT BE ACCEPTED. ALL TERMINATION POINTS MUST BE IDENTIFIED IN THE SHOP DRAWINGS AND PERMANENTLY / CLEARLY MARKED IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS. TERMINATOR MATERIALS SHALL BE SIZED FOR THE INSTALLED CONDUCTORS.
7. ALL WIRES SHALL BE NEATLY BUNDLED AND TAGGED TO INDICATE THE CONNECTED DEVICE. EACH WIRE SHALL BE COLOR CODED AND TAGGED WITH A PLASTIC SLEEVE TYPE WIRING TAG. WIRING SHALL BE TAGGED AT EACH POINT OF TERMINATION.
8. ALL RELAYS AND CONTACTORS SHALL HAVE A SUFFICIENT AMOUNT OF CONTACTS TO SATISFY THE CONTRACT REQUIREMENT AND ONE SPARE.
9. ALL DEVICES AND APPARATUS FURNISHED SHALL BE NEW AND SHALL BE UL LISTED.
10. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATION.
11. EXISTING UNDERGROUND PIPE, CONDUIT AND APPURTENANCES ARE NOT SHOWN. CONTRACTOR SHALL LOCATE ALL EXISTING SUBSURFACE EQUIPMENT WHICH MAY CONFLICT WITH NEW CONSTRUCTION SO AS TO AVOID CONFLICTS OR DAMAGE.
12. ALL CIRCUIT BREAKERS FOR MOTOR-OPERATED EQUIPMENT SHALL BE EQUIPPED WITH LOCK-OUT / TAG-OUT ACCESSORY.
13. CONTRACTOR SHALL HILTI FILLER FOAM ALL CONDUIT ENDS AFTER FINAL CABLE INSTALLATION HAS OCCURRED.
14. CONTRACTOR SHALL COORDINATE AND SCHEDULE SHUTDOWNS AT SUITABLE TIMES TO THE OWNER. ALL SHUTDOWNS SHALL BE SCHEDULED DURING PERIODS OF LOW FLOW AND DRY WEATHER.
15. SEE MECHANICAL PLANS FOR SLUICE GATE 1000, 1001, 1002 LOCATION AND DISTANCES. ALL COMPONENTS WITHIN AREA SHALL BE ELECTRONICALLY CLASSIFIED CLASS I DIVISION 1.
16. CONTRACTOR SHALL REMOVE EXISTING MOTOR CONTROL CENTER (MCC) BUCKET "SUPPLY FAN #2 STARTER" WITHIN SECTION 3 AND SHALL FURNISH AND INSTALL NEW 400AF/400AT FEEDER BREAKER BUCKET FOR EXISTING MCC MODEL WESTINGHOUSE 2100 SERIES.
17. CONTRACTOR IS RESPONSIBLE FOR FURNISHING, INSTALLING, AND PROGRAMMING FOR NEW SCADA EQUIPMENT TO INTERACT WITH EXISTING SYSTEM. THE VENDOR IS RESPONSIBLE FOR ALL SYSTEM UPGRADES REQUIRED TO ESTABLISH COMMUNICATION TO THE EXISTING CONTROL COMPUTER LOCATED WITHIN THE MEETING AREA, SEE SPECIFICATIONS FOR DETAILS.
18. CONTRACTOR SHALL REFERENCE DEMOLITION PLANS FOR ALL EQUIPMENT TO BE REMOVED FROM THIS AREA. CONTRACTOR SHALL DISCONNECT AND DEMOLISH ALL ASSOCIATED CONDUIT AND WIRING FOR ALL DEVICES OF EQUIPMENT TO BE DEMOLISHED BACK TO ITS SOURCE LOCATION.



1. DETECTABLE UNDERGROUND TAPE: "CAUTION BURIED ELECTRICAL LINE BELOW", RED TAPE WITH BLACK LETTERS, 2" x 1000 FEET, BRADY STYLE No: 91601 OR EQUIVALENT. BURY 6" (MINIMUM) BELOW GRADE. BURY TAPE DIRECTLY OVER SINGLE CONDUIT OR CENTER OF MULTIPLE CONDUITS UNLESS QUANTITY OF CONDUITS IN TRENCH EXCEEDS (5) FIVE CONDUITS, IN WHICH CASE USE (2) TWO TAPES CENTERED ON OUTER-MOST CONDUITS.

TRENCH DETAIL (TYPICAL)
SCALE: N.T.S.

GENERAL NOTES:
1. EXISTING CONDITIONS ARE BASED ON A FIELD SURVEY PERFORMED BY RICHARD A. ALAIMO ENGINEERING COMPANY IN MAY 2013 FOR WOODBRIDGE TOWNSHIP. ADDITIONAL UNDERGROUND PIPING & UTILITIES MAY BE PRESENT. ITEMS NOTED FOR REMOVAL ON SITE DEMOLITION PLAN NOT SHOWN. EXISTING CONDITIONS ARE DEPICTED SCREENED (FADED) FOR CLARITY.



APPROVED: *[Signature]*
Richard A. Alaimo
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 13195

REVISIONS	DATE	BY

RICHARD A. ALAIMO ENGINEERING COMPANY
Consulting Engineers
NJDCA 24GA27988800
200 HIGH STREET MOUNT HOLLY, N.J.
2 MARKET STREET PATERSON, N.J.

GRIT CHAMBER UPGRADE
ELECTRICAL SITE PLAN
SCALE: AS NOTED

CLIENT: WOODBRIDGE TOWNSHIP	DATE: APRIL 2017	SHEET E1
PROJECT LOCATION: WOODBRIDGE TOWNSHIP MIDDLESEX COUNTY NEW JERSEY	DESIGNED BY: JRN DRAWN BY: DM CHECKED BY: [Signature] DEPT. HEAD:	FILE NO.:
PROJECT NO.: B-0726-0023-000	CONTRACT NO.: 1230	

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