

GENERAL NOTES:

- 1 UNLESS SPECIFICALLY NOTED OTHERWISE, ALL UNDERGROUND CONCRETE ENCASED ELECTRICAL CONDUITS SHALL BE PER STANDARD DETAIL
- 2 THE INSTALLATION OF ALL CONCRETE ENCASED THE INSTALLATION OF ALL CONVERTE ENCASED/ ELECTRICAL CONDUITS SHALL COMPLY WITH ACI 318, SECTION 6.3. CONTRACTOR SHALL SUPPLY EXPANSION JOINT FITTINGS AS REQUIRED FOR THERMAL EXPANSION AND DEFLECTION.
- 3 BOND ALL NEW CONCRETE ENCASED GROUND CONDUCTORS TO EXISTING GROUND CONDUCTORS IN ALL MANHOLES, PULL BOXES, CABLE TRAYS, AND SIMILAR LOCATIONS WHERE APPLICABLE.
- 4 UNLESS OTHERWISE SPECIFIED OR NOTED, ALL WALL MOUNTED ELECTRICAL PANELS, ENCLOSURES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED 6'-6'
- 5 UNLESS OTHERWISE NOTED, ALL LIGHTING SWITCHES, CONTROL SWITCHES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED WITH THEIR CENTERLINE APPROXIMATELY 4'-0' ABOVE FINISHED FLOOR, SLAB, OR GRADE. THERMOSTATS SHALL BE MOUNTED 4'-4' ABOVE FINISHED FLOOR.
- 6 A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH CIRCUIT (SEPARATE CONDUCTOR IN THE CONDUIT) THE CONDUCTOR SHALL BE TERMINATED AT THE PROPER DEVICE, TERMINAL OR LUG AT THE POWER SOURCE (MCC GROUND BUS, PANELBOARD GROUND BUS, ETC.) GROUND CONDUCTOR SIZE SHALL BE PER THE LATEST EDITION OF THE NEC.
- 7 ELECTRICAL SYSTEMS INSTALLED IN HAZARDOUS FLECTRICAL SYSTEMS INSTALLED IN HAZARDOUS LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 5, ART. 500 OF THE LATEST EDITION OF THE NEC. CONTRACTOR SHALL SEAL ALL CONDUITS LEAVING HAZARDOUS AREA. WALL AND FLOOR OPENINGS SHALL BE SEALED WITH FIREPROOF COMPOUND.
- 8 ALL EQUIPMENT LOCATED IN HAZARDOUS AREAS SHALL BE SUITABLE FOR THE CLASS, DIVISION, AND GROUP RATING OF THE LOCATION.
- 9 UNLESS SPECIFICALLY NOTED OTHERWISE, EXISTING PAVEMENT SHALL BE SAW CUT AND REMOVED TO ALLOW FOR THE INSTALLATION OF NEW ELECTRICAL DUCTBANKS. AFTER INSTALLATION, REPLACE PAVEMENT WITH NEW TO MATCH ORIGINAL CONDITIONS.
- 10 ALL PROCESS INSTRUMENTS SHALL BE FURNISHED AND INSTALLED WITH A LOCAL DISCONNECT SWITCH AS SPECIFIED IN SECTION 16141.
- 11 THE CONTRACTOR SHALL REFERENCE SPECIFICATION SECTION 01520 FOR GENERAL CONSTRUCTION CONSTRAINTS AND SEQUENCING.

COMMUNICATIONS

ABBREVIATIONS

TWISTED PAIR SHIFLDED

ONE PA/INTERCOM CABLE

TWO PA/INTERCOM CABLES

NON-FUSED SAFETY SWITCH

REDUCED VOLTAGE AUTO TRANSFORMER

REDUCED VOLTAGE SOLID STATE

VARIABLE FREQUENCY DRIVE

MOTOR OPERATED LOUVER

POINT OF COMMON COUPLING

REMOTE RACK (FOR PLC)

LOCAL CONTROL STATION

TWISTED TRIAD SHIELDED

AIR ENTRAINMENT PUMP

CYLINDER OPERATED VALVE

* LOCATED AT MCC OR COMBINATION STARTER

RAS PUMP STATION C WETWELL LEVEL RELAY PANEL

EQUIPMENT CONNECTION GROUND ROD

CONCRETE ENCASED DUCT BANK IDENTIFIER. # DENOTES NUMBER. SEE DUCT BANK SCHEDULE.

CONDUIT AND WIRE (SEE LEGEND)

LIGHTING CONTACTOR

LOCAL CONTROL PANEL

 $\bigcirc_{\mathbf{2}}$ DAF BLEND TANK LEVEL RELAY PANEL

MISC PLAN VIEW SYMBOLS

LOCK-OUT

LOCATED IN FIELD

(*)

☐ LOCATED AT VFD

PROGRAMMABLE LOGIC CONTROLLER

AUTO-TRANSFORMER TEMPERATURE SWITCH

LOCAL_OFF_REMOTE

HAND_OFF_AUTO

WALK THRU

FUSED SAFETY SWITCH

STAINLESS STEEL

FSS

PLC

LCS

TTS

ATT

LO

AFP

LC

HORN/LIGHT DEVICE

OUTY OF BOANOUS		
CITY OF ROANOKE		
VIRGINIA		

REGIONAL WATER POLLUTION CONTROL PLANT

ELECTRICAL LEGEND AND GENERAL NOTES

THE SCALE BAR	DATE
SHOWN BELOW	H & S
MEASURES ONE	NUMBER
INCH LONG ON	CONTR
THE ORIGINAL	NUME
DRAWING.	

MARCH 2004 30788B RACT DRAWING NUMBER E1 В

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CONSTRUCTION

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