

Mar 14, 2012 4:11pm V:\entp\projects\20060815.dwg\asbuilts-WTP\ASBUILT-SITE-TANK-DETAILS.dwg

- BRICK VENEER:**
- FACE BRICK SHALL CONFORM TO ASTM C 216 WITH A GRADE OF SW AND BE TYPE FBS. SIZE OF BRICK SHALL BE 3 5/8 INCHES WIDE BY 2 1/4 INCHES HIGH BY 7 5/8 INCHES LONG. USE SPECIAL SHAPES FOR APPLICATIONS WHERE SHAPES PRODUCED BY SAWING WOULD RESULT IN SAWED SURFACES BEING EXPOSED TO VIEW.
 - MORTAR SHALL CONFORM TO ASTM C 270 PROPORTION SPECIFICATION. DO NOT USE CALCIUM CHLORIDE IN MORTAR. USE TYPE S MORTAR. FOR FACE BRICK USE COLORED CEMENT OR CEMENT-LIME MIX OF COLOR SELECTED.
 - JOINT REINFORMENT SHALL CONFORM TO ASTM A 951. REINFORMENT SHALL BE HOT-DIP GALVANIZED. THE WIRE DIAMETER FOR SIDE RODS SHALL BE W2.8 OR 0.188 INCHES. THE WIRE DIAMETER FOR CROSS RODS SHALL BE W2.8 OR 0.188 INCHES. FOR MULTIPLYTHE MASONRY, PROVIDE LADDER DESIGN WITH THREE SIDE RODS.
 - SHEET METAL FLASHING SHALL BE COPPER WITH 10-OZ/SQ. FT WEIGHT OR 0.0135 INCH THICK FOR FULLY CONCEALED FLASHING, 16 OZ/SQ. FT. WEIGHT OR 0.0216 INCH THICK ELSEWHERE.
 - LAMINATED FLASHING SHALL BE 7 OZ/SQ. FT. COPPER SHEET BONDED WITH ASPHALT BETWEEN 2 LAYERS OF GLASS-FIBER CLOTH.
 - WEEP HOLES SHALL BE COTTON OR POLYESTER ROPE, 1/4 TO 3/8 INCH IN DIAMETER AND 24 INCHES LONG.
 - PROPRIETARY ACIDIC MASONRY CLEANER SHALL BE A PRODUCT EXPRESSLY APPROVED FOR INTENDED USE BY CLEANER MANUFACTURER AND MANUFACTURER OF MASONRY UNITS.
 - GENERAL INSTALLATION:
 - CUT MASONRY UNITS WITH SAW. INSTALL WITH CUT SURFACES AND, AND WHERE POSSIBLE, CUT EDGES CONCEALED.
 - MIX UNITS FOR EXPOSED UNIT MASONRY FROM SEVERAL PALLETS OR CUBES AS THEY ARE PLACED TO PRODUCE UNIFORM BLEND OF COLORS AND TEXTURES.
 - MATCH EXISTING MASONRY BY MATCHING THE COURSING, BONDING, COLOR, AND TEXTURE OF EXISTING MASONRY.
 - WHEN STOPPING AND RESUMING WORK, RACK BACK UNITS AND DO NOT TOOTH.
 - TOOL EXPOSED JOINTS SLIGHTLY CONCAVE WHEN THUMBPRINT HARD, UNLESS OTHERWISE INDICATED.
 - KEEP CAVITIES CLEAN OF MORTAR DROPPINGS AND OTHER MATERIALS DURING CONSTRUCTION.
 - LINTELS:
 - INSTALL LINTELS WHERE INDICATED.
 - MINIMUM BEARING OF 8 INCHES AT EACH JAMB, UNLESS OTHERWISE INDICATED.
 - FLASHING AND WEEP HOLES:
 - INSTALL EMBEDDED FLASHING AND WEEP HOLES IN MASONRY AT SHELF ANGLES, LINTELS, LEDGES, OTHER OBSTRUCTIONS TO THE DOWNWARD FLOW OF WATER IN THE WALL, AND WHERE INDICATED.
 - PLACE THROUGH-WALL FLASHING ON SLOPING BED OF MORTAR AND COVER WITH MORTAR. SEAL PENETRATIONS IN FLASHING BEFORE COVERING WITH MORTAR. EXTEND FLASHING 4 INCHES INTO MASONRY AT EACH END AND TURN UP 2 INCHES TO FORM A PAN.
 - TRIM WICKING MATERIAL USED IN WEEP HOLES FLUSH WITH OUTSIDE FACE OF WALL AFTER MORTAR HAS SET.
 - CLEANING:
 - CLEAN MASONRY AS WORK PROGRESSES. REMOVE MORTAR FINS AND SMEARS BEFORE TOOLING JOINTS.
 - FINAL CLEANING MAY BE STARTED AFTER MORTAR IS THOROUGHLY CURES. CLEAN EXPOSED MASONRY. IF ACIDIC CLEANER IS TO BE USED, WET WALL SURFACES WITH WATER BEFORE APPLYING ACIDIC CLEANER, THEN REMOVE CLEANER PROMPTLY BY RINSING THOROUGHLY WITH CLEAR WATER. CLEAN MASONRY WITH A PROPRIETARY ACIDIC CLEANER APPLIED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - BUILDING INSULATION:
 - INSULATION PRODUCTS:
 - KRAFT-FACED, GLASS-FIBER BLANKET INSULATION: ASTM C 665, TYPE II (NON-REFLECTIVE FACED), CLASS C (FACED SURFACE NOT RATED FOR FLAME PROPAGATION), CATEGORY 1 (MEMBRANE IS A VAPOR BARRIER).
 - FOAMED-IN-PLACE BUILDING INSULATION FOR EXTERIOR CMU WALLS. ACCEPTABLE PRODUCTS/MANUFACTURERS OR APPROVED EQUALS:
 - TRIPOLYMER BY C.P. CHEMICAL CO., INC., WWW.TRIPOLYMER.COM
 - POLYMASTER R-501 FOAM INSULATION BY POLYMASTER, INC., WWW.POLYMASTER.COM
 - THERMOCO BY THERMAL CORPORATION OF AMERICA, WWW.THERMOCOFOAM.COM
 - ACCESSORIES:
 - EAVE VENTILATION TROUGHS SHALL BE PREFORMED, RIGID FIBERBOARD OR PLASTIC SHEETS DESIGNED TO FIT BETWEEN ROOF FRAMING MEMBERS AND TO PROVIDE CROSS-VENTILATION BETWEEN ATTIC SPACES AND VENTED EAVES.
 - INSTALLATION:
 - INSTALL INSULATION IN AREAS AND IN THICKNESSES INDICATED OR REQUIRED TO PRODUCE R-VALUES INDICATED. CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS AND FILL VOIDS WITH INSULATION.
 - EXCEPT FOR LOOSE-FILL INSULATION AND INSULATION THAT IS FRICTION FITTED IN STUD CAVITIES, BOND UNITS TO SUBSTRATE WITH ADHESIVE OR USE MECHANICAL ANCHORAGE TO PROVIDE PERMANENT PLACEMENT AND SUPPORT OF UNITS.

ASPHALT SHINGLES:

 - FIBERGLASS SHINGLES SHALL COMPLY WITH ASTM D 3462 AND BE MULTITAB-STRIP ASPHALT SHINGLES SHALL BE MINERAL-GRANULE SURFACED AND SELF-SEALING. THREE TABS, REGULARLY SPACED WITH STAGGER CUT BUTT EDGE.
 - ACCESSORIES:
 - FELTS SHALL COMPLY WITH ASTM D 226, TYPE I, ASPHALT-SATURATED ORGANIC FELTS.
 - SELF-ADHERING SHEET UNDERLAYMENT SHALL COMPLY WITH ASTM D 1970, SBS-MODIFIED ASPHALT, MINERAL-GRANULE OR SLIP-RESISTING-POLYETHYLENE SURFACED, WITH RELEASE PAPER BACKING, AND COLD-APPLIED.
 - RIDGE-VENT SHALL BE RIGID UV-STABILIZED PLASTIC RIDGE-VENT WITH NONWOVEN GEOTEXTILE FILTER STRIPS, FOR USE UNDER RIDGE SHINGLES.
 - ROOFING NAILS SHALL BE ALUMINUM, STAINLESS STEEL, OR HOT-DIP GALVANIZED-STEEL SHINGLE NAILS, MINIMUM 0.120 INCH DIAMETER, OF SUFFICIENT LENGTH TO PENETRATE 3/4 INCH INTO SOLID WOOD DECKING OR EXTEND AT LEAST 1/8 INCH THROUGH OSB OR PLYWOOD SHEATHING.
 - SHEET METAL FLASHING AND TRIM:
 - SHEET METAL SHALL BE COPPER.
 - FABRICATE SHEET METAL FLASHING AND TRIM TO COMPLY WITH RECOMMENDATIONS IN SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL."
 - DRIP EDGE SHALL BE FORMED SHEET METAL WITH AT LEAST A 2 INCH ROOF DECK FLANGE AND A 1-1/2 INCH FASCIA FLANGE WITH A 3/8 INCH DRIP AT LOWER EDGE.
 - INSTALLATION:
 - COMPLY WITH RECOMMENDATIONS IN ARMA'S "RESIDENTIAL ASPHALT ROOFING MANUAL" AND WITH ASPHALT SHINGLE RECOMMENDATIONS IN NRCA'S "THE NRCA ROOFING AND WATERPROOFING MANUAL."
 - APPLY SELF-ADHERING SHEET UNDERLAYMENT AT EAVES AND RAKES FROM EDGES TO ROOF TO AT LEAST 24 INCHES INSIDE EXTERIOR WALL LINE.
 - INSTALL FIRST AND REMAINING COURSES OF ASPHALT SHINGLES STAIR-STEPPING DIAGONALLY ACROSS ROOF DECK WITH MANUFACTURER'S RECOMMENDED OFFSET PATTERN AT SUCCEEDING COURSES, MAINTAINING UNIFORM EXPOSURE.

GYPSUM BOARD:

 - PANEL PRODUCTS:
 - PROVIDE IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS.
 - MOISTURE RESISTANT GYPSUM BOARD: WATER-RESISTANT GYPSUM BACKING BOARD SHALL COMPLY WITH ASTM C 630 OR ASTM C 1396, IN THICKNESS INDICATED. REGULAR TYPE UNLESS OTHERWISE INDICATED.
 - ACCESSORIES:
 - JOINT TREATMENT MATERIALS SHALL COMPLY WITH ASTM C 475.
 - JOINT TAPE SHALL BE PAPER UNLESS OTHERWISE RECOMMENDED BY PANEL MANUFACTURER.
 - JOINT COMPOUNDS SHALL BE SETTING-TYPE TAPING COMPOUND AND DRYING-TYPE, READY-MIXED, COMPOUNDS FOR TOPPING.
 - INSTALLATION:
 - INSTALL GYPSUM BOARD TO COMPLY WITH ASTM C 840.
 - FOR SINGLE-LAYER FASTENING METHODS, FASTEN GYPSUM PANELS TO SUPPORTS WITH SCREWS.
 - FINISHING GYPSUM BOARD SHALL COMPLY WITH ASTM C 840.
 - AT CONCEALED AREAS, UNLESS A HIGHER LEVEL OF FINISH IS REQUIRED FOR FIRE-RESISTANCE-RATED ASSEMBLIES, PROVIDE LEVEL 1 FINISH: EMBED TAPE AT JOINTS.
 - UNLESS OTHERWISE INDICATED, PROVIDE LEVEL 4 FINISH: EMBED TAPE AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES.

- PAINTING:**
- PAINT PRODUCTS AND MATERIALS SHALL BE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATES.
 - FOR EACH COAT IN A PAINT SYSTEM, PROVIDE PRODUCTS RECOMMENDED IN WRITING BY MANUFACTURERS OF TOPCOAT FOR USE IN PAINT SYSTEM AND ON SUBSTRATE INDICATED.
 - COLOR SHALL BE AS SELECTED FROM MANUFACTURER'S FULL RANGE.
 - SURFACE PREPARATION:
 - REMOVE HARDWARE, LIGHTING FIXTURES, AND SIMILAR ITEMS THAT ARE NOT TO BE PAINTED. MASK ITEMS THAT CANNOT BE REMOVED. REINSTALL ITEMS IN EACH AREA AFTER PAINTING IS COMPLETE.
 - CLEAN AND PREPARE SURFACES IN AN AREA BEFORE BEGINNING PAINTING IN THAT AREA. SCHEDULE PAINTING SO CLEANING OPERATIONS WILL NOT DAMAGE NEWLY PAINTED SURFACES.
 - PAINT APPLICATION:
 - APPLY PAINTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - USE BRUSHES ONLY FOR EXTERIOR PAINTING AND WHERE THE USE OF OTHER APPLICATORS IS NOT PRACTICAL.
 - USE ROLLERS FOR FINISH COAT ON INTERIOR WALLS AND CEILINGS.
 - APPLYING PAINTS TO PRODUCE SURFACE FILMS WITHOUT CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, ROLLER TRACKING, RUNS, SAGS, ROPINESS, OR OTHER SURFACE IMPERFECTIONS. CUT IN SHARP LINES AND COLOR BREAKS.
 - IF UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL COATS UNTIL CURED FILM HAS A UNIFORM PAINT FINISH, COLOR, AND APPEARANCE.
 - EXTERIOR PAINT APPLICATION SCHEDULE:
 - STEEL (LINTELS, DOORS, FRAMES, ETC.): SEMIGLOSS, ALKYD ENAMEL SHALL HAVE TWO COATS OVER RUST-INHIBITIVE PRIMER THAT COMPLIES WITH MPI EXT 5.1D.
 - GALVANIZED METAL: SEMIGLOSS, ALKYD ENAMEL SHALL HAVE TWO COATS OVER CEMENTITIOUS GALVANIZED-METAL PRIMER THAT COMPLIES WITH MPI EXT 5.3B.
 - HARDIE BOARD SIDING FOR FASCIA AND SOFFIT: PAINT WITH MANUFACTURER'S RECOMMENDED PAINT SYSTEM.
 - INTERIOR PAINT APPLICATION SCHEDULE:
 - CONCRETE MASONRY UNITS (ALL INTERIOR MASONRY WALLS: SEMIGLOSS LATEX SHALL HAVE TWO COATS OVER LATEX BLOCK FILLER THAT COMPLIES WITH MPI INT 4.2C.
 - STEEL: SEMIGLOSS, ALKYD ENAMEL SHALL HAVE TWO COATS OVER ALKYD ANTICORROSIVE PRIMER THAT COMPLIES WITH MPI INT 5.1E.
 - GALVANIZED METAL: SEMIGLOSS, ALKYD ENAMEL SHALL HAVE TWO COATS OVER CEMENTITIOUS GALVANIZED-METAL PRIMER THAT COMPLIES WITH MPI INT 5.1C.
 - GYPSUM BOARD: EGGSHELL ALKYD SHALL HAVE TWO COATS OVER LATEX PRIMER/SEALER THAT COMPLIES WITH MPI INT 9.2C.

GENERAL STRUCTURAL NOTES-ASBUILT

FOR

TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT, VOLUME 2

TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO.	20080815
G.L. NO.	297-03-A3.9
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2	9/3/09	OWNER COMMENTS
4	11/17/09	FRANKLIN COUNTY COMMENTS
5	3/14/12	ASBUILTS