

GENERAL NOTES

- A. DESIGN DATA PROVIDED IN ELECTRONIC FORMAT IS FOR INFORMATION PURPOSES ONLY AND SHOULD BE USED AT YOUR OWN RISK...
B. UTILITIES: THERE MAY BE ADDITIONAL EXISTING UTILITIES NOT SHOWN ON THESE PLANS...
C. TEMPORARY PROVISIONS: SEQUENCE THE WORK AND PROVIDE TEMPORARY MEASURES AS NEEDED TO MAINTAIN ACCESS TO THE SITE...
D. EQUIPMENT STORAGE: DO NOT PARK EQUIPMENT OR STORE MATERIALS IN STATE, COUNTY, OR CITY RIGHT-OF-WAY...
E. NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE SURVEY SHOWN ON THE PLANS...
F. OBTAIN ALL REQUIRED CONSTRUCTION RELATED PERMITS, INCLUDING DEMOLITION PERMIT...
G. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS...
H. SIGNS: LOCATION, NUMBER, AND SIZE ARE NOT APPROVED UNDER THE GENERAL DEVELOPMENT REGULATIONS...
I. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED ON THE SITE...
J. COMPLY WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL BUILDING AND UTILITY INSTALLATION CODES...
K. DO NOT DEVIATE FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER...
L. WORK WITHIN D.O.T. RIGHT-OF-WAY...
M. ALL PAVEMENT MARKINGS WITHIN D.O.T. RIGHT-OF-WAY SHALL BE THERMOPLASTIC AND IN ACCORDANCE WITH D.O.T. SPECIFICATIONS...
N. ENSURE CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS...
TRAFFIC CONTROL
A. IF DRAWINGS DO NOT INDICATE SITE SPECIFIC TRAFFIC CONTROL MEASURES...
B. TEMPORARY TRAFFIC CONTROL DEVICES (MUTCD, LATEST EDITION)...
C. CONTACT PROPERTY OWNERS TO BE AFFECTED BY CONSTRUCTION AND COORDINATE TEMPORARY EROSION CONTROL MEASURES...
D. CONTROL DUST AS NECESSARY TO PREVENT INTERFERENCE WITH TRAFFIC...
E. INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION...
F. COORDINATE ALL LANE CLOSURES WITH THE LOCAL JURISDICTION HAVING AUTHORITY.

STRUCTURE & SITE DEMOLITION

- A. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING DEMOLITION OPERATIONS...
B. VERIFY THAT HAZARDOUS MATERIALS HAVE BEEN REMEDIATED BEFORE PROCEEDING WITH BUILDING DEMOLITION OPERATIONS...
C. ENVIRONMENTAL & GEOTECHNICAL: REVIEW ALL PROJECT ENVIRONMENTAL AND GEOTECHNICAL REPORTS...
D. EXISTING UTILITIES: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITIES SERVING BUILDINGS AND STRUCTURES...
E. DEMOLITION ACTIVITIES...
F. EXISTING FACILITIES: PROTECT ADJACENT WALKWAYS, LOADING DOCKS, BUILDING ENTRIES, AND OTHER BUILDING FACILITIES DURING DEMOLITION OPERATIONS...
G. EXISTING UTILITIES: MAINTAIN UTILITY SERVICES TO REMAIN AND PROTECT FROM DAMAGE DURING DEMOLITION OPERATIONS...
H. TEMPORARY PROTECTION: ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS...
I. REMOVE TEMPORARY BARRIERS AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST...
J. REMOVE DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL...
K. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY BUILDING DEMOLITION OPERATIONS...
L. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY BEFORE BUILDING DEMOLITION OPERATIONS BEGAN

SITE CLEARING

- 1.) PROJECT CONDITIONS
A. TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS...
B. ENVIRONMENTAL & GEOTECHNICAL: REVIEW ALL PROJECT ENVIRONMENTAL AND GEOTECHNICAL REPORTS...
C. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING...
D. DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION- AND SEDIMENTATION CONTROL AND PLANT-PROTECTION MEASURES ARE IN PLACE...
2.) TEMPORARY EROSION AND SEDIMENTATION CONTROL
A. PROVIDE TEMPORARY EROSION- AND SEDIMENTATION-CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS...
B. VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS PROTECTION ZONES...
C. INSPECT, MAINTAIN, AND REPAIR EROSION- AND SEDIMENTATION-CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED...
D. REMOVE EROSION AND SEDIMENTATION CONTROLS WHEN SITE IS STABILIZED AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL...
3.) TREE AND PLANT PROTECTION
A. REPAIR OR REPLACE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR BE RELOCATED THAT ARE DAMAGED BY CONSTRUCTION OPERATIONS...
B. EXISTING UTILITIES
A. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP UTILITIES INDICATED TO BE REMOVED OR ABANDONED IN PLACE...
B. INTERRUPTING EXISTING UTILITIES: DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS...
C. POT HOLE EXISTING WATER LINES, UNDERGROUND ELECTRICAL LINES, GAS LINES, UNDERGROUND TELEPHONE LINES, FIBER OPTIC, AND ANY OTHER EXISTING UTILITY LINES WITHIN THE PROJECT LIMITS...
D. RE-ESTABLISH ALL RIGHT-OF-WAY AREA, WHICH IS DAMAGED OR DISTURBED, TO ORIGINAL CONDITION OR BETTER...
E. ALL WORK IN D.O.T. RIGHT-OF-WAY SHALL COMPLY WITH D.O.T. SPECIFICATIONS...
F. ARRANGE HIGH INTENSITY LIGHTING TO CONCEAL THE SOURCE OF LIGHT FROM PUBLIC VIEW AND PREVENT INTERFERENCE WITH TRAFFIC...
G. ENSURE CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS...
H. COORDINATE ALL LANE CLOSURES WITH THE LOCAL JURISDICTION HAVING AUTHORITY.

SITE WATER DISTRIBUTION

- 1.) GENERAL
A. REGULATORY REQUIREMENTS:
1. COMPLY WITH REQUIREMENTS OF UTILITY COMPANY SUPPLYING WATER...
2. COMPLY WITH STANDARDS OF AUTHORITIES HAVING JURISDICTION FOR POTABLE WATER-SERVICE PIPING...
B. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY...
C. INTERRUPTION OF EXISTING WATER-DISTRIBUTION SERVICE: NOTIFY OWNER AT LEAST 2 DAYS PRIOR TO INTERRUPTION...
D. COORDINATE WITH UTILITY COMPANY FOR REQUIRED INSPECTIONS AND FOR CONNECTION OF WATER MAIN AND SERVICES BEFORE STARTING CONSTRUCTION...
2.) COPPER TUBE AND FITTINGS
A. SOFT COPPER TUBE: ASTM B 88, TYPE K, WATER TUBE, ANNEALED TEMPER...
B. COPPER PRESSURE SEAL FITTINGS
1. NPS 2 AND SMALLER: WROUGHT-COPPER FITTING WITH EPDM O-RING SEAL...
2. NPS 2-1/2 TO NPS 4: BRONZE FITTING WITH STAINLESS-STEEL GRIP RING AND EPDM O-RING SEAL...
C. BRONZE BRASS: ASME B16.24 CLASS 150, WITH SOLDER-JOINT END...
D. COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY...
3.) DUCTILE-IRON PIPE AND FITTINGS
A. MECHANICAL-JOINT, DUCTILE-IRON PIPE: AWWA C151, WITH MECHANICAL-JOINT BELL AND PLAIN END...
B. MECHANICAL-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN...
C. GLANDS, GASKETS, AND BOLTS: AWWA C111, DUCTILE- OR GRAY-IRON GLANDS...
D. PUSH-ON JOINT, DUCTILE-IRON PIPE: AWWA C151, WITH PUSH-ON JOINT BELL AND PLAIN SPIGOT END...
E. FLANGES: ASME 16.1, CLASS 125, CAST IRON...
F. PVC PIPE AND FITTINGS
A. PVC, SCHEDULE 40 PIPE: ASTM D 1785, PVC, SCHEDULE 40 SOCKET FITTINGS...
B. PVC, AWWA PIPE: AWWA C900, CLASS 200, WITH BELL END WITH GASKET...
C. MECHANICAL-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN...
G. GATE VALVES
A. AWWA, CAST-IRON GATE VALVES, NONRISING-STEM, RESILIENT-SEALED GATE VALVES...
B. VALVE BOXES: COMPLY WITH AWWA M44 FOR CAST-IRON VALVE BOXES...
C. STANDARD: AWWA C509...
D. MINIMUM PRESSURE RATINGS: 250 PSIG...
E. GROUND CONNECTIONS: MECHANICAL JOINT...
F. INTERIOR COATING: COMPLYING WITH AWWA C550...
H. GATE VALVE ACCESSORIES AND SPECIALTIES
A. THE SUBGRADE TO REMAIN SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY...
I. STANDARD: MSS SP-80...
J. TAPPING SLEEVE: CAST- OR DUCTILE-IRON OR STAINLESS-STEEL...
K. ADJUSTABLE EXTENSION OF LENGTH REQUIRED FOR DEPTH OF BURIAL OF VALVE...
L. LETTERINGS: WATER, AND BOTTOM SECTION WITH BASE THAT FITS OVER VALVE...
M. BACKFLOW PREVENTERS
A. DOUBLE-CHECK, DETECTOR-ASSEMBLY BACKFLOW PREVENTERS:
1. STANDARDS: ASSE 1048 AND UL LISTED OR FMG APPROVED...
2. OPERATION: CONTINUOUS APPLICATION OF WATER PRESSURE...
3. PRESSURE LOSS: 5 PSIG MAXIMUM, THROUGH MIDDLE 1/3 OF FLOW RANGE...
4. BODY: CAST IRON WITH INTERIOR LINING COMPLYING WITH AWWA C550...
5. GROUND CONNECTIONS: FLANGED...
6. CONFIGURATION: DESIGNED FOR HORIZONTAL, STRAIGHT THROUGH FLOW...
7. WATER METER BOXES
A. DESCRIPTION: CAST-IRON BODY AND COVER FOR DISC-TYPE WATER METER...
B. OPERATION: CONTINUOUS APPLICATION OF WATER PRESSURE...
C. PRESSURE LOSS: 5 PSIG MAXIMUM, THROUGH MIDDLE 1/3 OF FLOW RANGE...
D. BODY: CAST IRON WITH INTERIOR LINING COMPLYING WITH AWWA C550...
E. GROUND CONNECTIONS: FLANGED...
F. CONFIGURATION: DESIGNED FOR HORIZONTAL, STRAIGHT THROUGH FLOW...
G. WATER METER BOXES
A. DESCRIPTION: CAST-IRON BODY AND COVER FOR DISC-TYPE WATER METER...
B. OPERATION: CONTINUOUS APPLICATION OF WATER PRESSURE...
C. PRESSURE LOSS: 5 PSIG MAXIMUM, THROUGH MIDDLE 1/3 OF FLOW RANGE...
D. BODY: CAST IRON WITH INTERIOR LINING COMPLYING WITH AWWA C550...
E. GROUND CONNECTIONS: FLANGED...
F. CONFIGURATION: DESIGNED FOR HORIZONTAL, STRAIGHT THROUGH FLOW...
8.) IDENTIFICATION
A. ARRANGE INSTALLATION OF GREEN WARNING TAPES DIRECTLY OVER PIPING AND AT OUTSIDE EDGES OF UNDERGROUND MANHOLE...
B. USE WARNING TAPE OR DETECTOR WARNING TAPES OVER FERROUS PIPING...
C. USE DETECTOR WARNING TAPE OVER NONFERROUS PIPING...
9.) FIELD QUALITY CONTROL
A. DRAWING INDICATED VALVE TYPES TO BE USED...
B. UNDERGROUND VALVES: NPS 2 AND LARGER: AWWA, CAST-IRON, NONRISING-STEM, RESILIENT-SEALED GATE VALVES...
C. USE THE FOLLOWING UNDERGROUND VALVES IN VAULTS AND ABOVEGROUND:
a. GATE VALVES, NPS 2 AND SMALLER: BRONZE, NONRISING STEM...
b. GATE VALVES, NPS 3 AND LARGER: AWWA, CAST IRON, OS&Y RISING STEM, RESILIENT SEALED...
c. CHECK VALVES: AWWA C508, SWING TYPE...
D. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED...
E. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE-AND-ONE-HALF TIMES WORKING PRESSURE...
F. DISINFECTION: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY...
G. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL...
H. IDENTIFICATION
A. INSTALL CONTINUOUS UNDERGROUND DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH...
I. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED...
J. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE-AND-ONE-HALF TIMES WORKING PRESSURE...
K. DISINFECTION: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY...
L. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL...
14.) IDENTIFICATION
A. INSTALL CONTINUOUS UNDERGROUND DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH...
I. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED...
J. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE-AND-ONE-HALF TIMES WORKING PRESSURE...
K. DISINFECTION: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY...
L. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL...

SITE SANITARY SEWERS

- 1.) PROJECT CONDITIONS
A. INTERRUPTION OF EXISTING SANITARY SEWERAGE SERVICE: COORDINATE AS REQUIRED WITH THE LOCAL SANITARY SEWER AUTHORITY...
B. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED...
C. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED...
D. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED...
E. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED...
2.) PIPE AND FITTINGS
A. PIPE: ASTM A 746, FOR PUSH-ON JOINTS...
B. COMPACT FITTINGS: AWWA C153, DUCTILE IRON, FOR PUSH-ON JOINTS...
C. GASKETS: AWWA C111, RUBBER...
3.) PVC SANITARY SEWER LINES SHALL BE ASTM D 3034, RATED SDR 35 WITH INTEGRALLY MOLDED BELL ENDS...
4.) CLEANOUTS
A. CAST-IRON CLEANOUTS
1. DESCRIPTION: ASTM A112 36.2M, ROUND, GRAY-IRON HOUSING WITH CLAMPING DEVICE...
2. TOP-LOADING CLASSIFICATION: TRAFFIC RATED, HEAVY DUTY...
3. SEWER PIPE FITTINGS AND RISER TO CLEANOUT: ASTM A 74, SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS...
4. PVC CLEANOUTS: PVC BODY WITH PVC THREADED FLUG...
5. STANDARD PRECAST CONCRETE MANHOLES:
A. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE...
B. BALLAST: INCREASE THICKNESS OF PRECAST CONCRETE SECTIONS...
C. BASE SECTION: 4-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION...
D. RISER SECTIONS: 4-INCH MINIMUM THICKNESS...
E. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER...
F. RESILIENT PIPE CONNECTORS: ASTM C 923, CAST OR FITTED INTO MANHOLE WALLS...
G. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER...
H. ADJUSTING RINGS: INTERLOCKING HOPE RINGS...
I. DIAMETER MATCHING MANHOLE FRAME AND COVER...
J. MANHOLE FRAMES AND COVERS:
1. DESCRIPTION: FERROUS, 24-INCH ID BY 7- TO 9-INCH RISER...
2. MATERIAL: ASTM A 336, GRADE 60-40-18 DUCTILE IRON...
K. IDENTIFICATION
A. ARRANGE INSTALLATION OF GREEN WARNING TAPES DIRECTLY OVER PIPING AND AT OUTSIDE EDGES OF UNDERGROUND MANHOLE...
B. USE WARNING TAPE OR DETECTOR WARNING TAPES OVER FERROUS PIPING...
C. USE DETECTOR WARNING TAPE OVER NONFERROUS PIPING...
L. FIELD QUALITY CONTROL
A. DRAWING INDICATED VALVE TYPES TO BE USED...
B. UNDERGROUND VALVES: NPS 2 AND LARGER: AWWA, CAST-IRON, NONRISING-STEM, RESILIENT-SEALED GATE VALVES...
C. USE THE FOLLOWING UNDERGROUND VALVES IN VAULTS AND ABOVEGROUND:
a. GATE VALVES, NPS 2 AND SMALLER: BRONZE, NONRISING STEM...
b. GATE VALVES, NPS 3 AND LARGER: AWWA, CAST IRON, OS&Y RISING STEM, RESILIENT SEALED...
c. CHECK VALVES: AWWA C508, SWING TYPE...
D. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED...
E. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE-AND-ONE-HALF TIMES WORKING PRESSURE...
F. DISINFECTION: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY...
G. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL...
H. IDENTIFICATION
A. INSTALL CONTINUOUS UNDERGROUND DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH...
I. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED...
J. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE-AND-ONE-HALF TIMES WORKING PRESSURE...
K. DISINFECTION: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY...
L. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL...

SITE STORM UTILITY DRAINAGE PIPING

- 1.) PIPE AND FITTINGS- GENERAL
A. ALL STORMWATER PIPE, INLETS, HEADWALLS, AND RELATED APPURTENANCES SHALL MEET LOCAL D.O.T. STANDARDS...
B. ALL STORMWATER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURERS INSTRUCTIONS...
2.) STEEL PIPE AND FITTINGS
A. CORRUGATED-STEEL PIPE AND FITTINGS: ASTM A 760/A 760M, TYPE I WITH FITTINGS OF SIMILAR FORM...
B. CORRUGATED PIPE DRAINAGE PIPE AND FITTINGS NPS 3 TO NPS 10...
C. CORRUGATED JOINT BANDS: CORRUGATED STEEL...
3.) PE PIPE AND FITTINGS
A. CORRUGATED PE DRAINAGE PIPE AND FITTINGS NPS 3 TO NPS 10...
B. CORRUGATED JOINT BANDS: CORRUGATED STEEL...
C. CORRUGATED PVC DRAINAGE PIPE AND FITTINGS NPS 4 TO NPS 36...
4.) MANHOLES
A. STANDARD PRECAST CONCRETE MANHOLES:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE...
2. BALLAST: INCREASE THICKNESS OF PRECAST CONCRETE SECTIONS...
3. BASE SECTION: 4-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION...
4. RISER SECTIONS: 4-INCH MINIMUM THICKNESS...
5. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER...
6. RESILIENT PIPE CONNECTORS: ASTM C 923, CAST OR FITTED INTO MANHOLE WALLS...
7. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER...
8. ADJUSTING RINGS: INTERLOCKING HOPE RINGS...
9. DIAMETER MATCHING MANHOLE FRAME AND COVER...
10. MANHOLE FRAMES AND COVERS:
1. DESCRIPTION: FERROUS, 24-INCH ID BY 7- TO 9-INCH RISER...
2. MATERIAL: ASTM A 336, GRADE 60-40-18 DUCTILE IRON...
5.) STORMWATER DETENTION STRUCTURES
A. CAST-IN-PLACE CONCRETE, STORMWATER DETENTION STRUCTURES: CONSTRUCTED OF REINFORCED-CONCRETE BOTTOM, WALLS, AND TOP...
B. PRE-CAST HEAD WALLS: PRE-CAST REINFORCED CONCRETE...
C. SLOPE PAVED HEAD WALLS: CAST-IN-PLACE REINFORCED CONCRETE...
D. RIPRAP BASINS: BROKEN, IRREGULARLY SIZED AND SHAPED, GRADED STONE...
6.) PIPE OUTLETS
A. PRE-CAST HEAD WALLS: PRE-CAST REINFORCED CONCRETE...
B. SLOPE PAVED HEAD WALLS: CAST-IN-PLACE REINFORCED CONCRETE...
C. RIPRAP BASINS: BROKEN, IRREGULARLY SIZED AND SHAPED, GRADED STONE...
7.) IDENTIFICATION
A. INSTALL LOCATOR WIRE OR TAPE 6-INCHES ABOVE ALL NON-METALLIC PIPING...
B. INSTALL BEDDING AND BACKFILL IN ACCORDANCE WITH PIPE MANUFACTURERS INSTRUCTIONS...
C. BEGIN INSTALLATION AT DOWNSTREAM PIPING CONNECTION TO OUTFALL POINT...
D. CONSTRUCT ALL HEADWALLS FLUSH WITH EXISTING AND PROPOSED EMBANKMENT SLOPES...
8.) CLEANING
A. CLEAN INTERIOR OF PIPING OF DIRT AND SUPERFLUOUS MATERIALS...

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SEAL:

Professional Engineer Seal for Georgia, State of Professional Engineers, License No. 11301

Table with 2 columns: REVISIONS, DATE. Row 1: ENVIRONMENTAL HEALTH, 08-12-2020. Row 2: CITIES COMMENTS, 10-7-2020.

Table with 2 columns: PROJECT MANAGER, DRAWING BY, JURISDICTION, DATE, SCALE, TITLE. Values: JPS, JCW, MILTON, GA, 07-15-2020, AS SHOWN, TITLE.

GENERAL NOTES
SHEET NUMBER: G-2
COMMENTS: NOT RELEASED FOR CONSTRUCTION
JOB/FILE NUMBER: 1418.001

Order Plans
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