

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. CAST-IRON PROVIDE TEMPORARY PROTECTION 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 THIS FIELD AND THE SURVEY SHOWN ON THE PLANS BEFORE PROCEEDING WITH ANY NEW CONSTRUCTION...
F. OBTAIN ALL REQUIRED CONSTRUCTION RELATED PERMITS, INCLUDING DEMOLITION PERMIT, BEFORE STARTING WORK...
G. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS...
H. PRENS LOCATIONS AND SIZES ARE NOT APPROVED UNDER THE GENERAL DEVELOPMENT PERMIT...
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 OF RECORD...
L. CONFORM TO THE RIGHT-OF-WAY:
1. ALL PAVEMENT MARKINGS WITHIN D.O.T. RIGHT-OF-WAY SHALL BE THERMOPLASTIC AND IN ACCORDANCE WITH D.O.T. SPECIFICATIONS...
2. ALL WORK IN D.O.T. RIGHT-OF-WAY SHALL COMPLY WITH D.O.T. SPECIFICATIONS...
M. ARRANGE HIGH INTENSITY LIGHTING TO CONCEAL THE SOURCE OF LIGHT FROM PUBLIC VIEW AND PREVENT INTERFERENCE WITH TRAFFIC...
N. ENSURE CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, WALLS, AND UTILITIES BEFORE BEGINNING WORK...
NOTIFY ENGINEER IF DISCREPANCIES EXIST.

TRAFFIC CONTROL

- A. IF DRAWINGS DO NOT INDICATE SITE SPECIFIC TRAFFIC CONTROL MEASURES, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TEMPORARY TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION...
B. ALL TEMPORARY TRAFFIC CONTROL SIGNAGE AND MARKINGS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE MUTCD, LATEST EDITION...
C. CONTACT PROPERTY OWNERS TO BE AFFECTED BY CONSTRUCTION AND COORDINATE TEMPORARY TRAFFIC CONTROL MEASURES AND SEQUENCING, MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION...
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 AN BECOME FAMILIAR WITH ALL ISSUES BEFORE DEMOLITION...
D. EXISTING UTILITIES: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITIES SERVING BUILDINGS AND STRUCTURES TO BE DEMOLISHED...
1. ARRANGE TO SHUT OFF INDICATED UTILITIES WITH UTILITY COMPANIES...
2. IF REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITY SERVICES WILL AFFECT ADJACENT OCCUPIED BUILDINGS, THEN PROVIDE TEMPORARY UTILITIES THAT BYPASS BUILDINGS AND STRUCTURES TO BE DEMOLISHED AND THAT MAINTAIN CONTINUITY OF SERVICE TO OTHER BUILDINGS AND STRUCTURES...
3. DO NOT COMMENCE DEMOLITION OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENT CONTROL AND PLANT PROTECTION MEASURES ARE IN PLACE...
4. OBTAIN THE DEMOLITION PERMIT FROM THE LOCAL AUTHORITY PRIOR TO STARTING DEMOLITION ACTIVITIES...
5. EXISTING FACILITIES: PROTECT ADJACENT WALKWAYS, LOADING DOCKS, BUILDING ENTRIES, AND OTHER BUILDING FACILITIES DURING DEMOLITION OPERATIONS...
6. EXISTING UTILITIES: MAINTAIN UTILITY SERVICES TO REMAIN AND PROTECT FROM DAMAGE DURING DEMOLITION OPERATIONS...
7. TEMPORARY PROTECTION: ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGeways, WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION AND AS INDICATED...
8. REMOVE TEMPORARY BARRIERS AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST...
9. REMOVE DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION...
10. DO NOT BURN DEMOLISHED MATERIALS UNLESS SPECIAL WRITTEN PERMISSION IS OBTAINED FROM OWNER AND ENGINEER...
11. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY BUILDING DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING 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 AND BECOME FAMILIAR WITH ALL ISSUES BEFORE SITE CLEARING...
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 AREAS SUBJECT TO VEHICULAR TRAFFIC...
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, IN A MANNER APPROVED BY ENGINEER...
4) 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 UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS...
1. NOTIFY UTILITY OWNER NOT LESS THAN TWO DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS...
2. DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT UTILITY OWNER'S WRITTEN PERMISSION...
C. POT HOLE EXISTING WATER LINES, UNDERGROUND ELECTRICAL LINES, GAS LINES, UNDERGROUND INTERFERABLES, AND ANY OTHER EXISTING UTILITY LINES WITHIN THE PROJECT LIMITS DURING SITE CLEARING AND DEMOLITION ACTIVITIES...
5) CLEARING AND GRUBBING
A. REMOVE OBSTRUCTIONS, CONCRETE, ASPHALT, TREES, SHRUBS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION...
1. DO NOT REMOVE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR TO BE RELOCATED...
2. GRIND DOWN STUMPS AND REMOVE ROOTS, OBSTRUCTIONS, AND DEBRIS TO A DEPTH OF 12 INCHES BELOW EXPOSED SUBGRADE...
3. USE ONLY HAND METHODS FOR GRUBBING WITHIN PROTECTION ZONES...
4. THE SUBGRADE TO REMAIN SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY FOLLOWING CLEARING AND GRUBBING ACTIVITIES...
6) TOPSOIL STRIPPING
A. REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL...
B. STRIP TOPSOIL IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER MATERIALS...
C. STOCKPILE TOPSOIL AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMINGLING WITH SUBSOIL...
D. DISPOSE OF SURPLUS TOPSOIL, SURPLUS TOPSOIL IS THAT WHICH EXCEEDS QUANTITY INDICATED TO BE STOCKPILED OR REUSED.

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 OF EXISTING WATER SERVICES...
D. COORDINATE WITH UTILITY COMPANY FOR REQUIRED INSPECTIONS AND FOR CONNECTION OF WATER MAIN AND SERVICES BEFORE STARTING CONSTRUCTION...
2) ALL WATER DISTRIBUTION PIPE AND FITTINGS SHALL COMPLY WITH MWWSSB SPECIFICATIONS
3) BACKFLOW PREVENTERS
1. BACKFLOW DEVICES SHALL MEET THE REQUIREMENTS OF THE BOARDS CROSS-CONNECTION AND BACKFLOW PREVENTION POLICY...
2. DEVICES NOT LISTED AS APPROVED MUST BE REVIEWED AND ACCEPTED AS AN "EQUAL" BY THE BOARD'S ENGINEERING DEPARTMENT...
4) FIRE DEPARTMENT CONNECTIONS
A. FIRE DEPARTMENT CONNECTIONS: FREESTANDING, WITH CAST-BRONZE BODY, THREE INLETS...
B. FIRE DEPARTMENT CONNECTIONS: FREESTANDING, WITH CAST-BRONZE BODY, THREE INLETS...
5) VALVE APPLICATIONS
A. DRAWINGS INDICATE VALVE TYPES TO BE USED...
1. UNDERGROUND VALVES: NPS 3 AND LARGER: AWWA, CAST-IRON, NONRISING STEM, RESILIENT-SEALED GATE VALVES WITH VALVE BOX...
2. USE THE FOLLOWING FOR VALVES IN VAULTS AND ABOVE-GROUND:
a. GATE VALVES, NPS 2 AND SMALLER: BRONZE, NONRISING STEM...
b. GATE VALVES, NPS 3 AND LARGER: AWWA, CAST IRON, NONRISING STEM, RESILIENT-SEALED...
c. CHECK VALVES: AWWA C508, SWING TYPE...
6) FIELD QUALITY CONTROL
PIPE INSTALLATION TESTING, CLEANING AND REPORTING SHALL COMPLY WITH MWWSSB SPECIFICATIONS
7) IDENTIFICATION
INSTALL CONTINUOUS UNDERGROUND DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND UTILITY INSTALLATION...
LOCATE BELOW FINISHED GRADE, DIRECTLY ABOVE PIPING

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 BEFORE BEGINNING SANITARY SEWER INSTALLATION OPERATIONS...
2) ALL SANITARY SEWER PIPE AND FITTINGS SHALL COMPLY WITH MWWSSB SPECIFICATIONS
3) CLEANOUTS
A. CAST-IRON CLEANOUTS
a. DESCRIPTION: ASME A112.36.2M, ROUND, GRAY-IRON HOUSING WITH CLAMPING DEVICE AND ROUND, SECURED, SCORRIATED, GRAY-IRON COVER...
b. TOP-LOADING CLASSIFICATION: WATER TRAFFIC, HEAVY DUTY, IN ALL PAVED AREAS AND AREAS SUBJECT TO VEHICULAR TRAFFIC...
c. SEWER PIPE FITTING AND RISER TO CLEANOUT: ASTM A 74, SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS...
B. PVC CLEANOUTS: PVC BODY WITH PVC THREADED PLUG...
4) MANHOLES
A. STANDARD PRECAST CONCRETE MANHOLES
1. STANDARD PRECAST CONCRETE MANHOLES SHALL BE REINFORCED CONCRETE CONFORMING TO THE REQUIREMENTS OF ASTM C478...
2. MANHOLE RIM AND CASTING: FERROUS CASTING SHALL BE OF UNIFORM QUALITY...
3. CAST IN PLACE MANHOLES: CAST IN PLACE MANHOLES SHALL BE REVIEWED ON A CASE BY CASE BASIS...
B. RAISED MANHOLE FRAMES AND COVER
APPROVED FRAMES INCLUDE JOHN BOUCHARD & SONS CO. R-1650 LM FRAME AND COVER, NENAH FOUNDRY COMPANY LIFETIME HINGE SYSTEM, OR AN ENGINEER-APPROVED EQUAL...
5) MANHOLE STEPS: MANHOLE STEPS SHALL BE COPOLYMER POLYPROPYLENE PLASTIC WITH 1/4" DIAMETER GRADE 60 REINFORCEMENTS...
6) IDENTIFICATION
A. ARRANGE FOR INSTALLATION OF GREEN WARNING TAPES DIRECTLY OVER PIPING AND AT OUTSIDE EDGES OF UNDERGROUND MANHOLES...
16. USE WARNING TAPE OR DETECTABLE WARNING TAPE OVER FERROUS PIPING...
17. USE DETECTABLE WARNING TAPE OVER NONFERROUS PIPING AND COVER EDGES OF UNDERGROUND MANHOLES...
7) FIELD QUALITY CONTROL
A. INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED...
1. DEFECTS REQUIRING CORRECTION INCLUDE THE FOLLOWING:
a. ALIGNMENT: LESS THAN FULL DIAMETER OF INSIDE OF PIPE IS VISIBLE BETWEEN STRUCTURES...
b. DEFLECTION: FLEXIBLE PIPING WITH DEFLECTION THAT PREVENTS PASSAGE OF BALL OF CYLINDER OF SIZE NOT LESS THAN 90 PERCENT OF PIPING DIAMETER...
c. DAMAGE: CRUSHED, BROKEN, OR OTHERWISE DAMAGED PIPING...
d. INFILTRATION: WATER LEAKAGE INTO PIPING...
e. EXFILTRATION: WATER LEAKAGE FROM PIPING INTO SURROUNDING SOIL...
2. REPLACE DEFECTIVE PIPING WITH NEW MATERIALS...
3. REINSPECT AND REPEAT PROCEDURES UNTIL RESULTS ARE SATISFACTORY...
B. TEST NEW PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED...
1. DO NOT REUSE COVERS OR PUT INTO SERVICE BEFORE INSPECTION AND APPROVAL...
2. TEST COMPLETE PIPING SYSTEMS ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION...
3. SCHEDULE TESTS AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION WITH AT LEAST 24 HOURS IN ADVANCE...
4. SUBMIT TEST RESULTS FOR EACH TEST TO THE ENGINEER FOR APPROVAL...
5. AIR TEST ALL SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION...
a. TEST PRESSURE: SANITARY SEWER PIPING ACCORDING TO ASTM F 1417...
b. MANHOLES: PERFORM HYDRAULIC TEST ACCORDING TO ASTM C 969...
c. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED...
d. PLACE LEAKING PIPING USING NEW MATERIALS, AND REPEAT TESTING UNTIL LEAKAGE IS WITHIN TOLERANCES SPECIFIED.

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 AND CONSTRUCTION AS PIPE...
1. STANDARD-JOINT BANDS: CORRUGATED STEEL...
2. COATING: ALUMINUM OR BITUMINOUS...
B. CORRUGATED PE DRAINAGE PIPE AND FITTINGS NPS 3 TO NPS 10: AASHTO M 252M; NPS 12 TO NPS 48: AASHTO M 204M TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS...
3. LIGHT COUPLINGS: PE SLEEVE WITH ASTM D 1056, TYPE 2, CLASS A, GRADE 2 GASKET MATERIAL THAT MATES WITH TUBE AND FITTINGS...
4) PVC CORRUGATED PIPE AND FITTINGS
A. CORRUGATED PVC DRAINAGE PIPE AND FITTINGS NPS 4 TO NPS 36: SMOOTH INTERIOR, ASTM F949, 48 PSI STIFFNESS WHEN TESTED IN ACCORDANCE WITH ASTM D2412...
B. INTEGRALLY-FORMED BELL AND SPIGOT GASKETED CONNECTIONS: MANUFACTURER SHALL PROVIDE DOCUMENTATION SHOWING NO LEAKAGE WHEN GASKETED PIPE JOINTS ARE IN ACCORDANCE WITH ASTM D3212...
5) CONCRETE PIPE AND FITTINGS
A. REINFORCED-CONCRETE PIPE AND FITTINGS: ASTM C 76, BELL-AND-SPIGOT, TONGUE-AND-GROOVE ENDS AND GASKETED JOINTS WITH ASTM C 441...
B. CAST-IRON AREA DRAINAGE: ASME A112.3 GRAY-IRON ROUND BODY WITH ANCHORS AND ROUND GRATE...
6) MANHOLES
A. STANDARD PRECAST CONCRETE MANHOLES
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS...
2. DIAMETER: 48-INCH MINIMUM, UNLESS OTHERWISE INDICATED...
3. BALLAST: INCREASE THICKNESS OF PRECAST CONCRETE JOINTS OR ADD CONCRETE TO BASE SECTION AS REQUIRED TO PREVENT FLOTATION...
4. JOINT SEALANT: 1/2" MINIMUM THICKNESS, 48-INCH DIAMETER, AND LENGTHS TO PROVIDE DEPTH INDICATED...
5. RISER SECTIONS: ECCENTRIC CONE TYPE UNLESS CONCENTRIC CONE OR FLAT-SLAB-TOP TYPE IS INDICATED...
6. JOINT SEALANT: 1/2" MINIMUM THICKNESS, 48-INCH DIAMETER, AND LENGTHS TO PROVIDE DEPTH INDICATED...
7. JOINT SEALANT: 1/2" MINIMUM THICKNESS, 48-INCH DIAMETER, AND LENGTHS TO PROVIDE DEPTH INDICATED...
B. MANHOLE FRAMES AND COVERS: ASTM A 536, GRADE 60-40-18 DUCTILE IRON...
1. DESCRIPTION: FERROUS, 24-INCH ID BY 7" TO 9-INCH RISER WITH 4-INCH MINIMUM WIDTH RANGE AND 26-INCH DIAMETER COVER...
2. MATERIAL: ASTM A 536, GRADE 60-40-18 DUCTILE IRON...
3. STANDARD PRECAST CONCRETE:
A. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS...
B. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION...
C. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, 48-INCH DIAMETER, AND LENGTHS TO PROVIDE DEPTH INDICATED...
D. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED...
E. JOINT SEALANT: 1/2" MINIMUM THICKNESS, 48-INCH DIAMETER, AND LENGTHS TO PROVIDE DEPTH INDICATED...
F. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP...
G. PIPE CONNECTORS: ASTM C 923, RESILIENT, OF SIZE REQUIRED...
7) STORMWATER DETENTION STRUCTURES
A. CAST-IN-PLACE CONCRETE, STORMWATER DETENTION STRUCTURES: CONSTRUCTED OF REINFORCED-CONCRETE BOTTOM, WALLS, AND TOP...
1. BALLAST: INCREASE THICKNESS OF CONCRETE AS REQUIRED TO PREVENT FLOTATION...
2. GRADE RINGS: INCLUDE TWO OR THREE REINFORCED-CONCRETE RINGS...
3. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP...
4. FORM AND CAST WIERS AND PIPE OPENINGS AS INDICATED ON DRAWINGS...
B. MANHOLE FRAMES AND COVERS: ASTM A 536, GRADE 60-40-18, DUCTILE-IRON CASTINGS...
9) PIPE OUTLETS
A. PRE-CAST HEAD WALLS: PRE-CAST REINFORCED CONCRETE, WITH APRON AND TAPERED SIDES...
B. SLOPE PAVED HEAD WALLS: CAST-IN-PLACE REINFORCED CONCRETE AS SHOWN ON DRAWINGS...
C. RIPRAP BASINS: BROKEN, IRREGULARLY SIZED AND SHAPED, GRADED STONE...
10) PIPING INSTALLATION
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...
11) CLEANING
A. CLEAN INTERIOR OF PIPING OF DIRT AND SUPERFLUOUS MATERIALS.

ENGINEER

FORESITE group
ForeSITE Group, Inc.
2128 Moores Mill Rd.
Suite C
Auburn, AL 36830
o | 334.887.6064
f | 334.887.6024
w | www.fg-inc.net

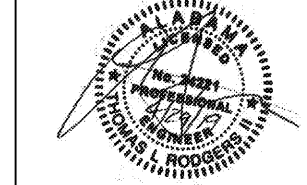
DEVELOPER

LifeStorage
LIFE STORAGE
6467 MAIN STREET
WILLIAMSVILLE, NY 14221
CONTACT: ROBERT FISHER

PROJECT

LIFE STORAGE #357
115 SOUTH ARROWHEAD DRIVE
MONTGOMERY, AL

SEAL



REVISIONS

Table with columns for REVISIONS and DATE. Row 1: SD PLANS, 04/22/19.

PROJECT MANAGER

TLR

DRAWING BY

JFG

JURISDICTION

MONTGOMERY, AL

DATE

04/29/2019

SCALE

AS SHOWN

TITLE

GENERAL CIVIL SPECS

SHEET NUMBER

G-0.1

COMMENTS

RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER

1208.002

Order Plans

WWW.ORDERPLANS.COM

* IF CONFLICTS EXIST BETWEEN THESE NOTES AND NOTES ON PLAN SHEETS, DEFER TO NOTES ON PLAN SHEETS.

* THESE NOTES AND SPECIFICATIONS ONLY APPLY IN THE EVENT THERE ARE NO JURISDICTIONAL SPECIFICATIONS.

* ALL WATER AND SEWER INFRASTRUCTURE SHALL MEET THE REQUIREMENTS OF MONTGOMERY WW & SSB