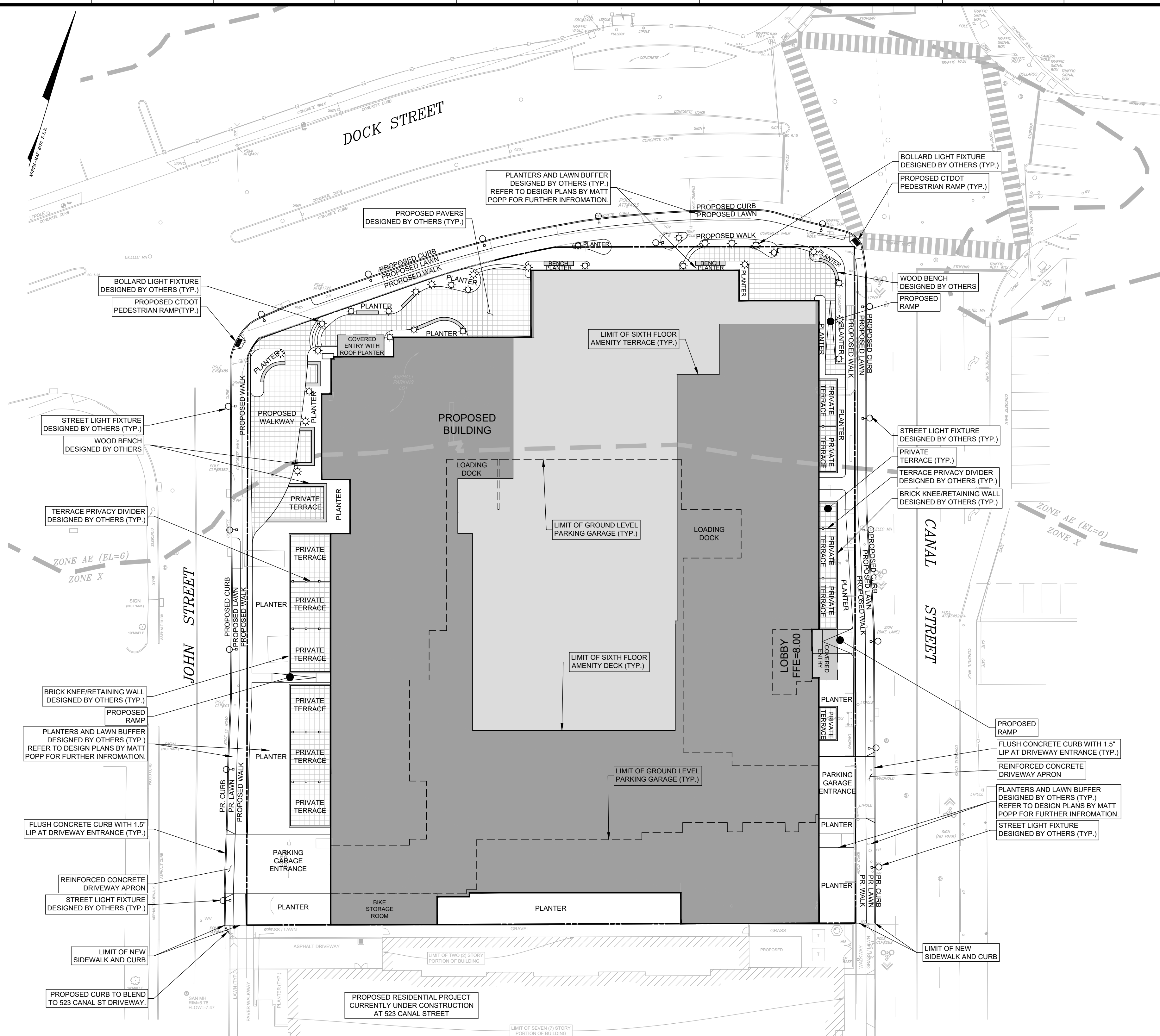


**GENERAL NOTES:**

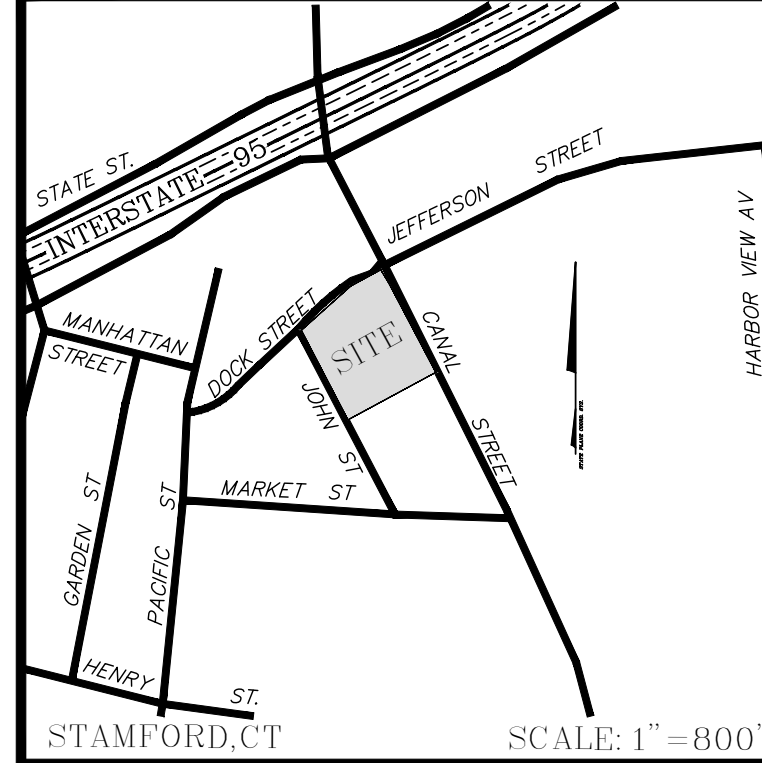
- This drawing is intended to depict proposed improvements. This drawing is for approval purposes only. No construction may begin prior to obtaining all necessary permits and approvals.
- All survey data, boundary lines, topography, building locations and area calculations are from a survey prepared by Redniss & Mead, Inc. entitled Property & Topographic Survey dated September 27th, 2020. Elevations depicted or labeled are based on NAVD-83.
- Refer to plans prepared by HLW International for information and design of the proposed building.
- Refer to plans prepared by Environmental Land Solutions for information and design of site elements including improvements within right-of-way to include sidewalks, planter curbs, paver surfaces, proposed planters, street lighting and associated details.
- Refer to plans prepared by AMA GROUP USA for information and design of mechanical equipment and interior utility design.
- All site retaining walls are shown for schematic purposes only and shall be designed by others.
- Property lies in a M-G zone.
- A portion of the property lies within the FEMA Flood Hazard Zone AE-Elev 6. Flood zone is shown per Flood Insurance Rate Map Community No. 090015 Panel 0516 Suffix G, effective date July 8, 2013.
- All construction shall comply with the City of Stamford requirements, the State of Connecticut Basic Building Code Americans with Disabilities (ADA), the Connecticut Guidelines for Soil and Erosion and Sediment Control, OSHA, CT DOT Form 818 (latest edition) and Section 15B of the Stamford Zoning Regulations, as applicable.
- All activities to be undertaken within the street right-of-way and other public lands shall comply fully with City standards unless approved deviation is specifically set forth as part of this application.
- Contractor shall supply complete shop drawings including manufacturer's product data sheets to the Site Engineer, for all construction material used in conjunction with these drawings. Contractor shall allow a 5 day review period, prior to fabrication and installation.
- Information on existing utilities has been compiled from various sources including utility company records, municipal record maps and field survey and is not guaranteed to be correct or complete. The contractor is solely responsible for determining actual locations and elevations of all utilities including underground services.
- The property is served by public water and sewers.
- Prior to any construction, the contractor is responsible for the capping and abandonment of all utilities serving the existing buildings. All applicable utility companies shall be notified prior to any demolition activities. All work shall be in conformance with the requirements of the subject utility provider.
- Prior to any excavation the Contractor and/or Applicant, in accordance with Public Act 77-358, shall be required to contact "Call Before You Dig" at 1-800-922-4455 for mark-out of underground utilities. Dig test pit(s) at utility crossing(s) to check actual clearances with new utilities prior to construction. If conflicts are found the contractor shall notify the engineer, at which time the sewer in question shall be redesigned. If such redesign is not possible, the existing pipes or utilities shall be relocated to avoid the conflict. Such relocation shall be done with knowledge of and in accordance with the owner of the utility.
- It shall be the responsibility of the contractor to provide any excavation safeguards, necessary barricades, flagmen, etc., for traffic control and site safety. All work shall be done in accordance with OSHA requirements. The contractor shall be responsible for compliance with OSHA requirements.
- When preparing the existing site for the proposed development, all materials removed shall be disposed of in conformance with all governing agencies.
- Building elevations are subject to change and shall be finalized prior to securing a building permit.
- The work shall be done in conformance with the plans unless changes have been approved in writing by the design engineer prior to the work being performed.
- Prior to issuance of a Certificate of Occupancy, the Engineering Bureau will require a certification that the development was constructed in accordance to the approved plans, and an "as-built" improvement location survey shall be submitted.
- The Contractor is responsible for coordinating with a licensed surveyor to prepare an "as-built" improvement location survey. The Contractor is responsible to coordinate with a site engineer 48 hours prior to any inspections.
- The Engineering Bureau and/or Highway Department and the inspecting engineer shall be notified by the contractor three (3) days prior to the commencement of each phase of construction.
- No work shall commence until erosion controls have been inspected in the field and approved by the inspecting engineer or their designee.
- No parking of construction vehicles will be allowed on Canal Street, Dock Street or John Street.
- Any work in the Canal Street or John Street right-of-way will require a street opening permit.
- Any underground storage tanks including oil or propane shall be removed. The contractor is responsible for determining if such tanks exist onsite.
- A preconstruction meeting shall be held with the Owner, Architect and Engineer to review the scope of construction. The Contractor shall be responsible to coordinate the preconstruction meeting.

**STANDARD CITY OF STAMFORD NOTES:**

- A Street Opening Permit is required for all work within the City of Stamford Right-of-Way.
- All work within the City of Stamford Right-of-Way shall be constructed to City of Stamford requirements, the State of Connecticut Basic Building Code and the Connecticut Guidelines for Soil Erosion and Sedimentation Control.
- The Engineering Bureau of the City of Stamford shall be notified three days prior to any commencement of construction work within the City of Stamford Right-of-Way.
- Trees within the City of Stamford Right-of-Way to be removed shall be posted in accordance with the Tree Ordinance.
- Prior to any excavation the Contractor and/or Applicant/Owner, in accordance with Public Act 77-350, shall be required to contact "Call Before You Dig" at 1-800-922-4455 for mark out of underground utilities.
- All retaining walls three (3) feet or higher measured from finished grade at the bottom of the wall to finished grade at the top of the wall and retaining walls supporting a surcharge or impounding Class I, II, or III-A liquids are required to have a Building Permit. Retaining walls shall be designed and inspected during construction by a Professional Engineer licensed in the State of Connecticut. Prior to the issuance of a Certificate of Occupancy, retaining walls shall be certified by a Professional Engineer licensed in the State of Connecticut.
- Certification will be required by a professional engineer licensed in the State of Connecticut that work has been completed in compliance with the approved drawings.
- A Final Improvement Location Survey will be required by a professional land surveyor licensed in the State of Connecticut.
- Connection to a city-owned storm sewer shall require the Waver Covering Storm Connection to be filed with the City of Stamford Engineering Bureau.
- Granite block or other decorative stone or brick, depressed curb, driveway apron, and curbing within the City of Stamford Right-of-Way shall require the Waver Covering Granite Block Depressed Curb and Driveway Aprons to be filed with the City of Stamford Engineering Bureau.
- Sediment and erosion controls shall be maintained and repaired as necessary throughout construction until the site is stabilized.
- To obtain a Certificate of Occupancy, submittal must include all items outlined in the Checklist for Certificate of Occupancy (Appendix D of the City of Stamford Drainage Manual).
- Reference EPB Permit #, Zoning Permit #, Zoning Board of Appeals #, Subdivision #, [if applicable].



BLOCK: 82 ZONE: RHD



ORIENTATION

No.	Date	Revision
1	02/03/2022	ISSUED FOR ZONING SUBMISSION

**SITE DEVELOPMENT PLAN**  
 DEPICTING  
**0, 441, & 481 CANAL STREET**  
**AND 50 JOHN STREET**  
 STAMFORD, CT  
 PREPARED FOR  
**HEYMAN PROPERTIES, LLC.**

**REDNISS & MEAD**  
 LAND SURVEYING  
 CIVIL ENGINEERING  
 PLANNING & ZONING CONSULTING  
 PERMITTING

22 First Street | Stamford, CT 06905  
 Tel: 203.327.0500 | Fax: 203.357.1118  
 www.rednissmead.com

SCALE: 0 30 60  
 1"=30'

DRAWN BY: AJP CHECKED BY: BPM

*Brian P. McMahon*  
 BRIAN P. McMAHON CT. P.E. 18337  
 February 3, 2022  
 DATE

This document and copies thereof are valid only if they bear the signature and embossed seal of the designated licensed professional. Unauthorized alterations render any declaration herein null & void.

SHEET No: **SE-1**

Comm. No.: 7300

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- EARTHWORK & GRADING:**
- The contractor shall follow the proposed grading plan and notify site engineer of any conflicts, including any low spots that may be created. Site Engineer shall review and approve any deviations from the grading plan.
  - Grade away from building walls at 2% minimum (typical).
  - All walkways shall be graded at a maximum of 5% longitudinal slope and 2% cross slope.
  - Earth slopes shall be no steeper than 3:1 (horz:vert).
  - No work shall commence until erosion controls have been inspected and approved by the EPB or their designee(s).
  - General fill beyond paved areas shall be free of brush rubbish, stumps and stones larger than 8". Fill shall be placed in compacted layers not to exceed 8" in thickness. The dry density after compaction shall not be less than 95% of the Standard Proctor Test and done in accordance with the requirements of ASTM D698. After compacting, the fill shall be 4" below the required grade as shown on the plan.
  - General fill may be silt, loam, sand or gravel mixture classified as SP, SV, SM, GP, GM, ML per the United Soil Classification System. It shall have not more than 40% fines passing the #100 sieve, not more than 8% passing the #200 sieve, and no stones larger than 8".
  - Disturbed areas shall be topsoiled, seeded with grass and mulched in a manner conforming to the recommendations of the "Guidelines for Soil Erosion and Sediment Control", published by The Connecticut Council on Soil and Water Conservation, May 2002.
  - After the areas to be topsoiled have been brought to grade, the subgrade shall be loosened by scarifying to a depth of at least 2" to ensure bonding of the topsoil and subsoil.
  - Topsoil shall be friable and loamy with high organic content. It shall be free of debris, rocks larger than 2" and roots. Topsoil shall have at least 1.5 percent by weight of fine textured stable organic material and no greater than 6 percent. Topsoil shall not have less than 20% fine textured material (passing the No. 200 sieve) and not more than 15% clay. pH range shall be 6.0-7.5 and soluble salts shall not exceed 500ppm.
  - Fill or topsoil shall not be placed nor compacted while in a frozen or muddy condition or while subgrade is frozen.
  - Retaining walls are shown for schematic purposes only, and shall be designed by the structural engineer. All structural work shall conform to the requirements of the basic building code of the State of Connecticut, latest edition and the City of Stamford requirements. Safety barriers for fall protection, if needed, are the responsibility of others.
  - Refer to plans prepared by the structural engineer for information regarding the design any retaining walls.
- PAVEMENT AND PAVEMENT MARKINGS:**
- Areas of new asphalt shall follow the details on Sheet SE-5
  - Subgrade and fill shall be uniformly compacted by the use of equipment manufactured for that purpose. Rollers shall deliver a ground pressure of not less than 300 pounds per linear inch of contact width and weigh not less than 10 tons. Vibratory units shall have a static weight of not less than 4 tons. The amount of compactive effort shall be as directed by the Engineer, but in no case shall be less than 4 complete passes of the compacting equipment being used.
  - Areas of asphalt pavement that are disturbed by the construction of this project shall be replaced in accordance with the asphalt pavement repair detail. The finished grade of asphalt paving shall blend to existing grade and the edge of the concrete pavement smoothly with no slopes exceeding 4%.
  - Existing features such as but not limited to walks, curbs, and pavement damaged by construction activities shall be repaired at no additional cost to the owner.
  - Saw cut perimeter of area to be excavated. Saw cut shall be straight and vertical.
  - Contractor shall engage a testing lab who shall verify the base course material by means of a sieve analysis and perform compaction testing of the base and each course of pavement. Site Engineer shall review with the contractor the required testing at the preconstruction meeting. Site Engineer shall approve base course prior to placement of each layer of pavement.
  - The Contractor shall engage a qualified independent testing agency to perform field inspections and tests and to prepare test reports. Testing agency will conduct and interpret tests and state in each report whether tested work complies with or deviates from specified requirements.
  - Additional testing, at Contractor's expense, will be performed to determine compliance of corrected work with specified requirements. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements as directed by the Site Engineer.
  - Contractor is responsible to place the hot-mix asphalt mix as required in the drawings, details and the applicable Section of the CT DOT FORM 818 (latest edition).
  - Compaction shall be constructed as specified in the CT DOT FORM 818 (latest edition), Section 4.06 specification, the drawings and the details. Testing lab shall verify compaction of each course of pavement as directed by the Site Engineer.
  - After the asphalt pavement has cured sufficiently to support the weight of a water truck without marking the newly installed pavement, it shall be water tested for low spots, areas of little or no drainage, etc. A water truck shall spray a sufficient amount of water on all pavement sections to observe the drainage of water. There shall be positive drainage on all areas of the pavement. Any visible low spots where significant water (greater than or equal to 3/16" in depth) is left standing, shall be clearly marked for the Contractor to repair prior to final acceptance. These areas must be sawcut and removed down to the base course prior to replacement with asphalt mixture as per the original approved design. The base course and edges of sawcut asphalt must be treated with tack oil prior to new section of asphalt being installed. The Owner's Representative or inspecting A/E shall be notified 48 hours in advance of water test so that he may be present during the test.
  - The inspecting engineer and contractor will review the testing requirements at the preconstruction meeting. At this meeting, samples to be tested and compaction testing protocol will be discussed. Testing and approval of the subgrade, base course and asphalt layers prior to the installation of the next layer to determine if the work complies or deviates from the specified requirements. Prior to installation of the base course, contractor shall contact inspecting engineer to determine the suitability of the subgrade material, base course and asphalt. Additional excavation or base course may be required.
  - Finished paving shall be free of "bird baths" and be smooth at the slopes specified on the plans.
  - Finished grade shall be within 1/2 inch of that noted on the drawings.
  - The pavement shall be protected from vehicular traffic of any kind with the use of barricades, etc. for a minimum period of 24 hours after final rolling. Maintain and protect asphalt surface from scrapes, tears, spills, hydraulic leaks, and any other construction damage for the remainder of construction until Owner's Representative acceptance. Contractor is responsible for clearing, repairing, seal coating, patching, and re-striping as necessary to obtain Owner's Representative's final approval/acceptance.
  - Thicknesses of all layers shown are after compaction. Compact all layers to 95% per ASTM D 1557 (Modified Proctor Method).
  - Removal of pavement markings along state road ways shall be completed by non-destructive method in compliance with the CT DOT Form 818 Section 12.11 as revised.
  - New pavement markings shall be painted with epoxy resin paint in compliance with the CT DOT Form 818 Section 12.10 as revised.
  - New sign material and sheeting shall be made of retroreflective material in compliance with CT DOT Form 818 Section 12.08 as revised.
  - All signs and pavement markings installed along the state road must conform to the "Manual on Uniform Traffic Control Devices," the latest State of Connecticut Catalog of Signs and standard as revised.
  - All pavement striping and replacement shall conform to the City of Stamford standards and the latest edition of AASHTO Highway Design Manual.



1	02/03/2022	ISSUED FOR ZONING SUBMISSION
No.	Date	Revision

**SITE GRADING PLAN**  
 DEPICTING  
**0, 441, & 481 CANAL STREET**  
**AND 50 JOHN STREET**  
 STAMFORD, CT  
 PREPARED FOR  
**HEYMAN PROPERTIES, LLC.**

**REDNISS & MEAD**  
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SCALE: 0 30 60  
 1"=30'

DRAWN BY: AJP      CHECKED BY: BPM

*Brian P. McMahon*  
 BRIAN P. McMAHON CT. P.E. 18337  
 February 3, 2022  
 DATE

This document and copies thereof are valid only if they bear the signature and embossed seal of the designated licensed professional. Unauthorized alterations render any declaration between null & void.

SHEET No: **SE-2**

Comm. No.: 7300

**GENERAL NOTES:**

- Prior to construction, the contractor must dig test pits in Canal, Dock and John Street at all utility crossings to confirm the location and elevations of existing infrastructure. The test pits must be dug prior to any site work to verify whether conflicts exist with the design and existing infrastructure. Contractor shall allow minimum 14 days for any redesign and to obtain City approvals. All test pits shall be conducted part of the base contract.
- Refer to plans by AMA Group for the sanitary sewer system layout within the building footprint, including drain locations within the parking garage. Interior parking garage drains must be piped to an oil grit separator prior to discharge to City sanitary sewers. This drawing shows information for sanitary sewer systems from 5 feet off the building perimeter to the city sewer system.
- This plan shows service location to be provided for the development. Service locations shall be coordinated and installed as directed by the utility companies.
- The contractor shall coordinate all roadway lane closures with the City of Stamford.
- The contractor shall use extreme caution against accidental dumping of dirt, concrete, or any other material into the proposed or existing sanitary sewer line during construction. The contractor shall be responsible for any cleanup and damage caused to pump station equipment downstream.
- Excavation for pipes or concrete pavement repair may require either a braced excavation or open cut designed according to the requirements of OSHA 29 CFR Part 1926. The lateral support systems and slopes should also be designed such that building footings, slabs on grade, adjacent pavement and existing utilities are protected and supported and not allowed to settle. The contractor shall be responsible for having a Professional Engineer, registered in the State of Connecticut design the excavation support method. The designs shall be submitted to the owner or his geotechnical engineer for review. The contractor shall submit plans showing the type, limits, design and sequence of construction for the lateral support system.
- During the excavation, it is anticipated that existing utilities and sewers may be exposed. The contractor shall provide protection and support of these facilities and repair any damage caused by the work in a manner satisfactory to the owner. The condition of the existing facilities shall be observed by the owner's representative who shall determine if the facilities shall be replaced. Replacement of the facilities shall be done in a manner satisfactory to the owner and in compliance with applicable Codes.
- The contractor shall contact the City of Stamford Water Pollution Control Authority (WPCA) at (203) 977-5586 or (203) 977-4750 for inspection of the sanitary sewer connection into the main.

**STORM AND SANITARY SEWER SYSTEMS:**

- Special attention of the contractor is called to the required type and compaction of pipe bedding and backfill specified on these drawings. These requirements will be strictly enforced.
- All pipe shall be installed straight and at the vertical and horizontal alignment shown. Pipes shall have a uniform slope as specified.
- Minimum cover on all pipes shall be two feet (2') unless otherwise noted.
- All storm pipe specified as Poly Vinyl Chloride Pipe (PVC) shall be SDR 35 with rubber gasketed joints and meet the requirements of ASTM D3034 and D3212.
- All sanitary sewer pipe shall be Poly Vinyl Chloride Pipe (PVCP) and shall be Schedule 40 with solvent weld joints.
- All catch basins and area drains shall have a two foot (2') sump with bell traps or 90° PVC elbows.
- Manhole diameters listed are minimum sizes and are assumed to be 4" inside diameter. If precast manholes are used, larger manholes must be used if recommended by the manufacturer.
- All existing and proposed catch basins, manhole risers and utility facilities shall be raised or lowered to be flush with finished grade.
- Locate and abandon existing sanitary laterals at the property line with the end capped and mortared. Other existing utilities shall be abandoned in accordance with the requirements of the utility owner(s).
- When connecting new pipes to existing structures such as manholes and catch basins, the structure shall be completely cleaned out. The hole made in the structure shall be made as small as possible. The structure shall be repaired to match its original type of construction. The joint between the structure and the pipe shall be made watertight by filling the joint with mortar.
- Flow in existing sewer system must not be interrupted. Any temporary routing of this sewer flow must be done in conformance with all applicable rules and regulations.
- Under no circumstances shall trench water be allowed to drain off through sanitary sewer lines.
- All crushed stone shall be Gradation No. 4 as per CT DOT Form 818, Article M.01.02. Stone shall consist of sound, tough, durable particles free from soft, thin, elongated, laminated, friable, micaceous, or disintegrated pieces of mud, dirt or other deleterious material.
- The storm and sanitary sewer shall be encased in concrete to a distance of 10 feet on either side of any intersection between the sanitary sewer and storm sewer. Where concrete encasement is required, temporarily support the pipes in place. Use sufficient concrete to encase piping not less than 6 inches at all points. The encasement shall be adequately supported with a stone base and shall be keyed into the foundation wall to prevent damage from settlement.
- Sanitary Sewer Testing: The sanitary sewer line shall be Low Pressure Air Tested, at the expense of the contractor. Testing to be in accordance with recommended procedure in "Unibells" Recommended Practice for Low Pressure Air Testing of Installed Sewer Pipe" UNI B-6. The minimum starting pressure for the test is 3.5 P.S.I. (in excess of the groundwater pressure at the top of the pipe) and there shall be no more than 0.5 P.S.I. drop in five (5) minutes. Manholes to be visually inspected. Lateral plugs shall be airtight to allow proper testing. Inspecting Engineer and the Engineering Bureau shall be informed of testing schedule three days in advance so they can witness the testing.
- As part of the final approval, the location of the lateral connection to the sanitary sewer shall be provided on a sketch with the following information:
  - Distance information from at least two permanent stations (i.e. telephone pole with number, nearest manhole cover, corner of building with address, etc.)
  - Depth of lateral connection
- At the end of construction, after the site has been fully stabilized, all new and previously existing storm sewer facilities including, but not limited to, catch basins, area drains, manholes, junction boxes, flow control structures, pipes, oil grit separators, permeable pavers and porous pavement shall be fully cleaned with equipment designed for that purpose to the satisfaction of the inspecting engineer.

**UTILITIES:**

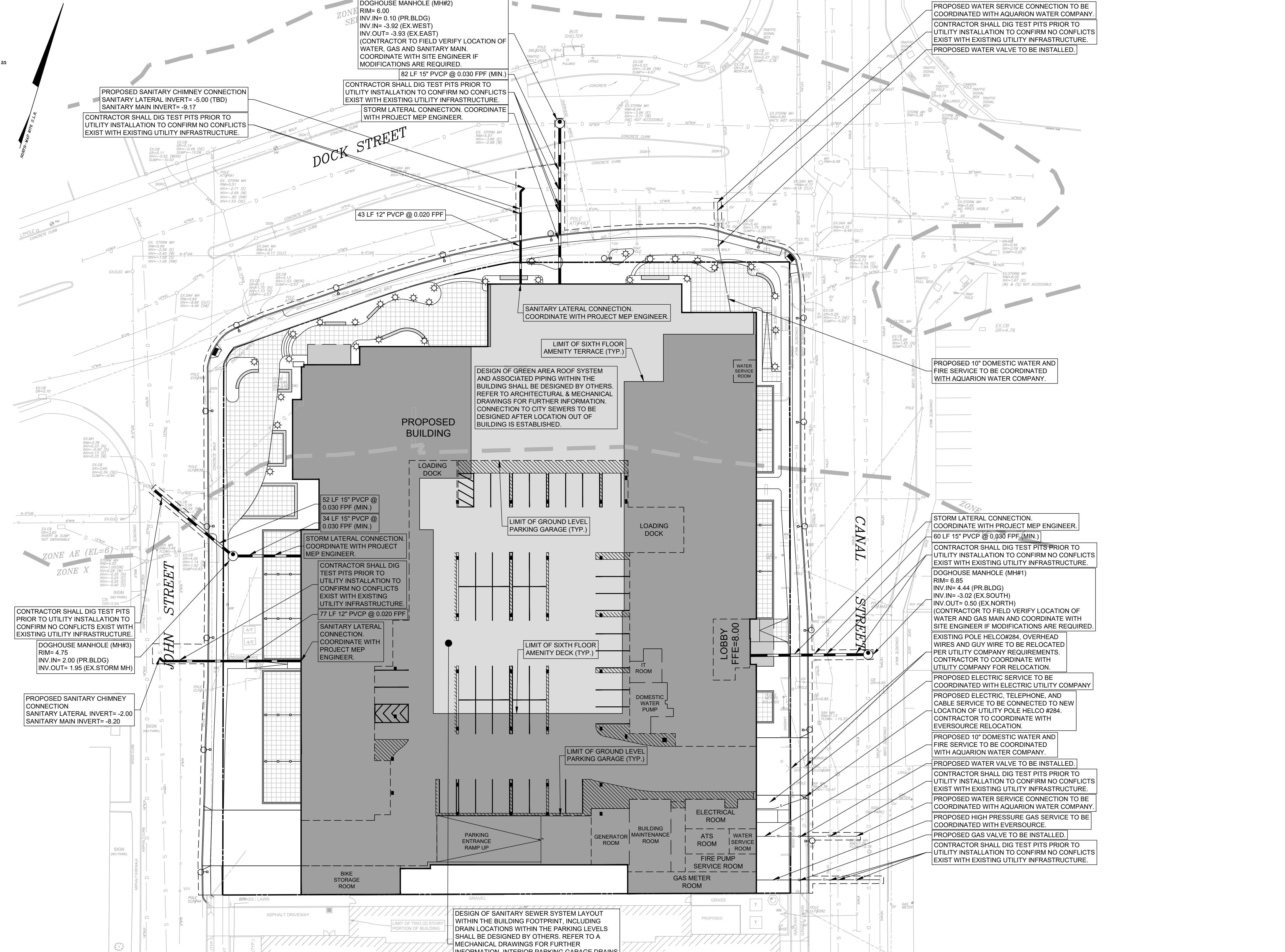
- Existing utilities shown on these plans are "not guaranteed" to be complete or correct. Prior to any site activities, the contractor shall be responsible for verification of clearances of proposed utilities from existing utilities. This verification shall include physical observation by means of test pits at the locations of affected utilities. The contractor shall notify the site engineer immediately of any conflict.
- Easements may be required in favor of the various utility companies.
- Electric, telephone, cable, gas, and water services shall be installed in conformance to the requirements of the governing utility companies.
- It is the contractor's responsibility to install utilities as shown on this sheet. The contractor shall work with the utility companies and site engineer to insure the installation is in conformance to the requirements of the governing utility company. All conduits shall be concrete encased as may be required by the governing utility company. Proposed electric, telephone, cable, gas and water services are shown for schematic purposes only and are subject to change pending utility company review. These utilities shall be designed by others and installed in conformance to the requirements of the governing utility companies.
- All existing and proposed utility facilities shall be raised or lowered to be flush with finished grade.
- Utility connections at building face shall be coordinated with the building contractors.
- Assume one 2" PVC conduit for all site lighting. Service location to be determined.
- In general, each utility shall have a minimum clearance of three feet to any other underground utility.
- Any and all utilities abandoned shall be capped or removed in accordance with utility companies' requirements.
- The electric transformer and generator shall be located to meet all applicable Zoning setbacks.
- All utilities shall be installed per FEMA regulations for flood protection. All utilities (i.e. HVAC condensers, electric transformers, etc.) must be set one foot above the Base Flood Elevation (BFE) or waterproofed.
- Electric, telephone, cable, gas and water services shall be compliant with the City of Stamford Zoning Regulations Flood Prone Area Regulations Section 15.B and shall be installed in conformance to the requirements of the governing utility companies. Gas and electric meters shall be located inside the structures on foot above the BFE.
- Gas service to the meter room shall be installed by the utility company.
- Detectable Tape shall be used to mark piping listed below. The identification tape shall be buried at least 6-inches to 10-inches below final grade but no closer than 12-inches to the buried utility piping or service.

Electric	Red	Caution Electric Line Buried Below
Telephone & Control	Orange	Caution Telephone Line Buried Below
Natural Gas	Yellow	Caution Gas Line Buried Below
Water Systems	Blue	Caution Water Line Buried Below
Fire Protection Systems	Blue	Caution Fire Line Buried Below Sprinkler Mains
Mains	Blue	Caution Sprinkler Line Buried Below Sewer System
System	Green	Caution Sewer Line Buried Below
IS & S Communication Conduit	Orange	Conc. N/A

- Underground-Type Plastic Line Marker: Manufacturer's standard permanent, bright-colored detectable tape, continuous-printed plastic tape, intended for direct-burial service; not less than 6" wide X 4 mils thick.

**WATER SERVICE:**

- Provide water service piping materials and factory-fabricated piping products of sizes, types, pressure ratings, temperature ratings, and capacities as indicated. Where not indicated, provide proper selection as determined by installer to comply with installation requirements meeting the City and Aquarion Water Company requirements. Provide materials and products complying with NFPA 24 where applicable. Provide sizes and types matching piping and equipment connections; provide fittings of materials which match pipe materials used in fire and potable water piping systems.
- Contractor installing water service shall be on the Aquarion Water Company approved contractors list.
- Ductile-Iron Pipe for water service shall be AWWA C151, with cement mortar lining complying with AWWA C104, class 50 with push on gasketed joints complying with Aquarion Water Company requirements and finished in minimum nominal 18 foot length.



No.	Date	Revision
1	02/03/2022	ISSUED FOR ZONING SUBMISSION

**SITE DRAINAGE & UTILITY PLAN**  
 DEPICTING  
**0, 441, & 481 CANAL STREET**  
**AND 50 JOHN STREET**  
 STAMFORD, CT  
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SCALE: 0 30 60  
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 DRAWN BY: AJP      CHECKED BY: BPM  
  
 BRIAN P. McMAHON CT. P.E. 18337  
 February 3, 2022  
 DATE  
 This document and copies thereof are valid only if they bear the signature and embossed seal of the designated licensed professional. Unauthorized alterations render any declaration herein null & void.  
 SHEET No: **SE-3**  
 Comm. No.: 7300

2/3/2022 2:26 PM H:\Utilities\70001\3001\3001\3001.dwg 7300 Measure (2021).dgn

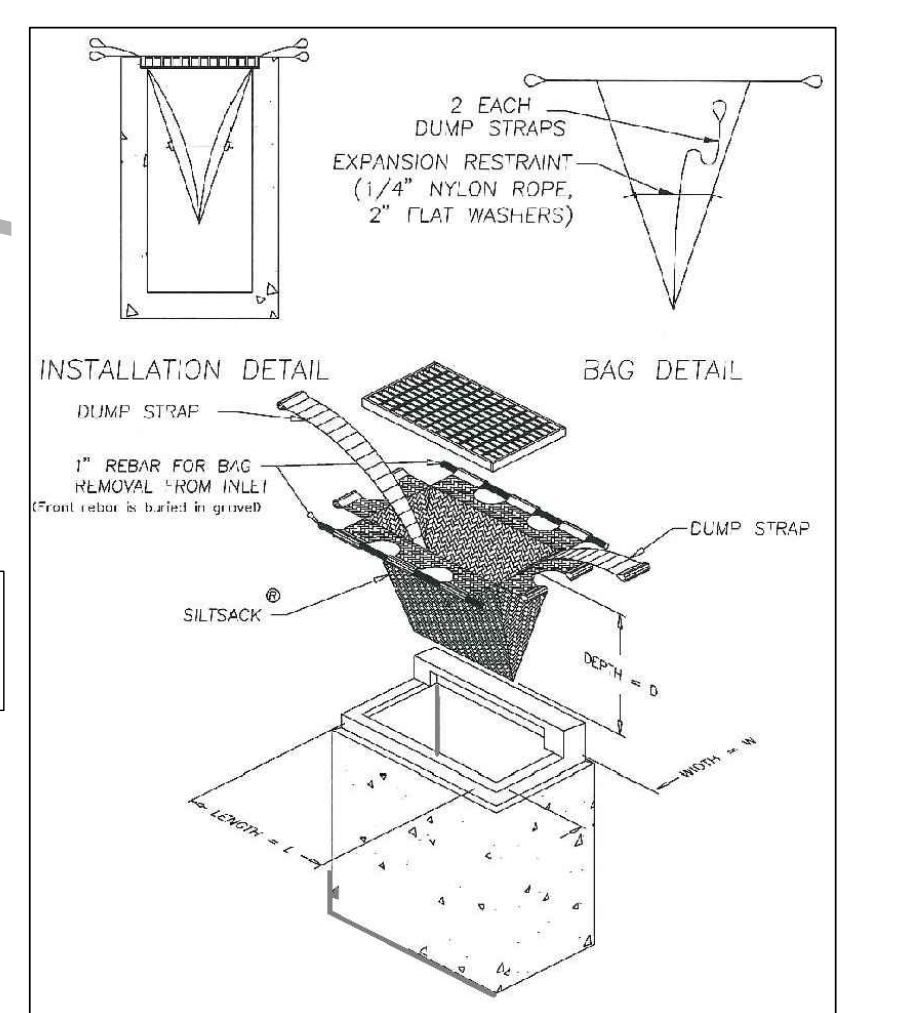
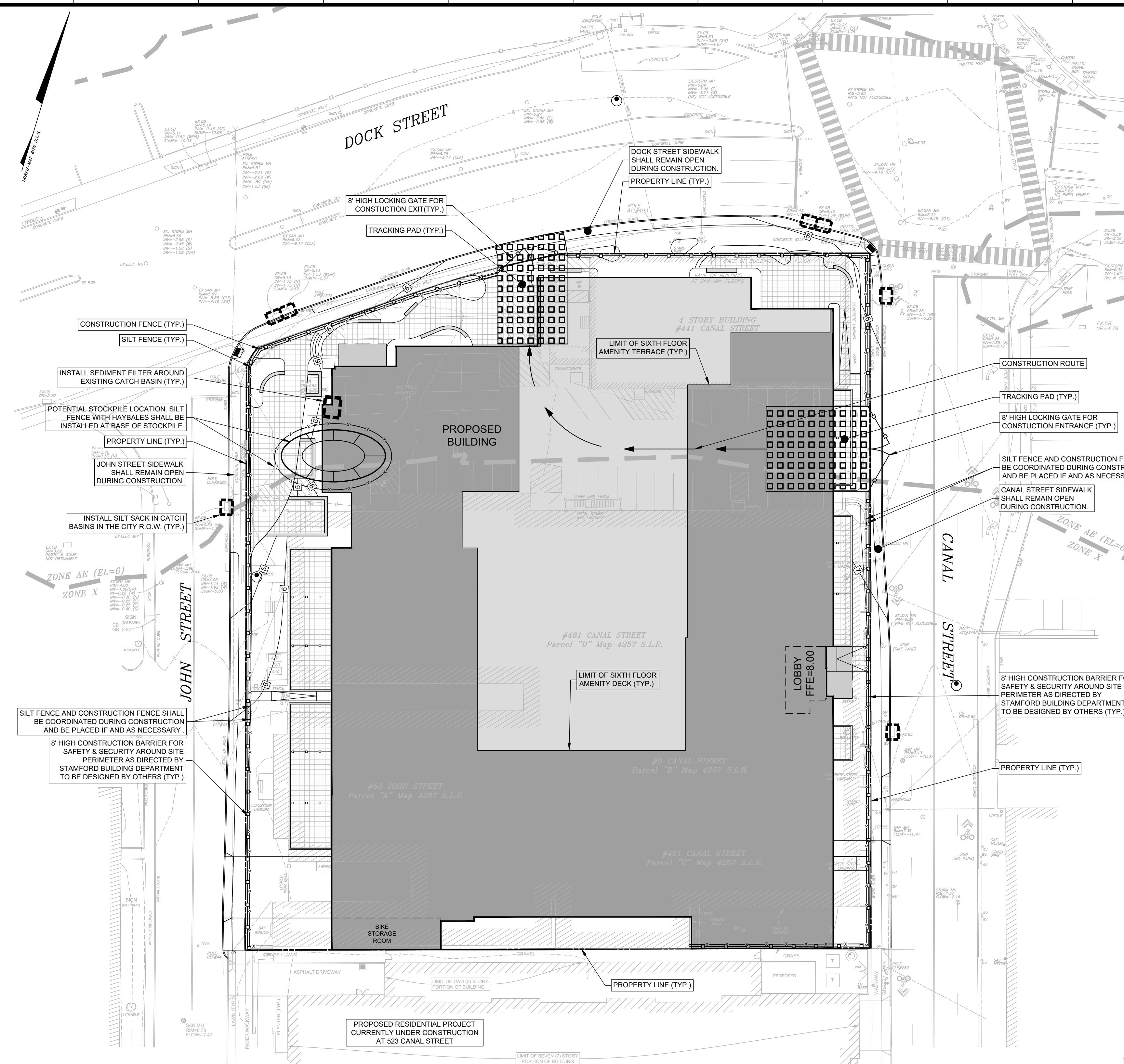
**SEDIMENT AND EROSION CONTROL NARRATIVE:**

The purpose of the Sediment and Erosion Control Plan, details, and notes is to outline a program that minimizes soil erosion during construction. The primary policies of this program are:

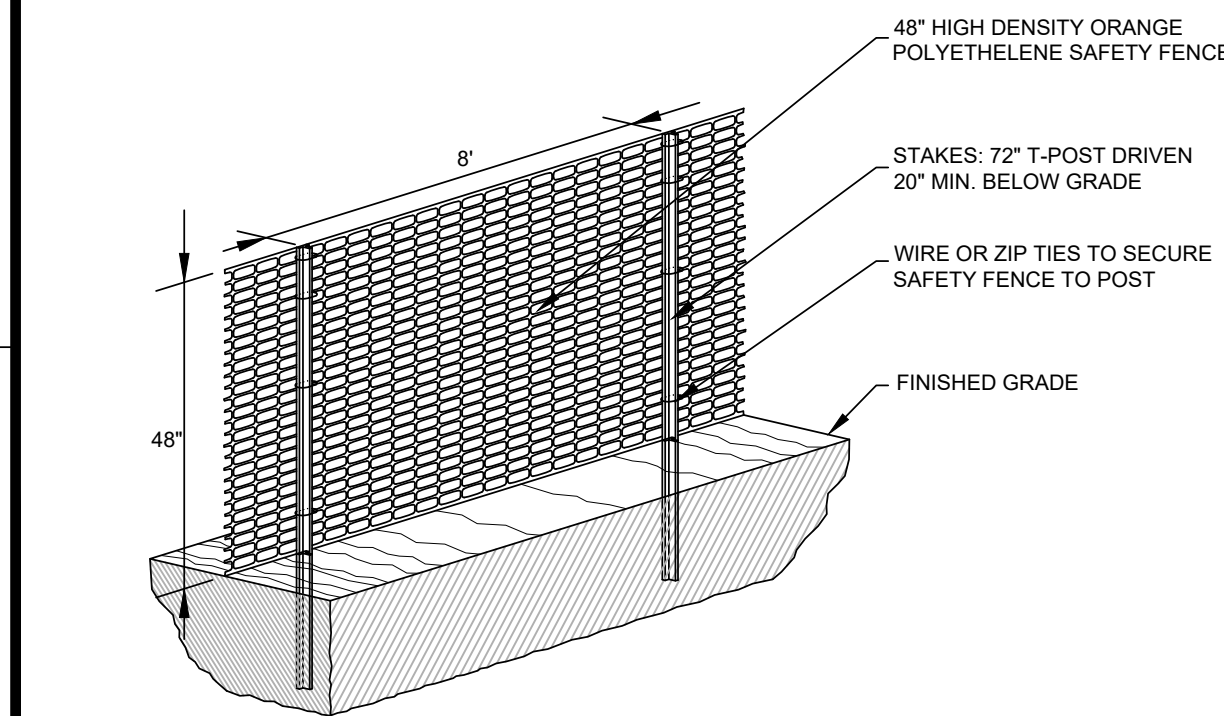
- a) Trapping particles at source by promptly stabilizing disturbed areas;
- b) Avoid concentration of water;
- c) Avoid contamination of existing storm drains;
- d) Maintenance (weekly maintenance and after storm events) of controls to ensure they are functioning properly;

**SEDIMENT AND EROSION CONTROL NOTES:**

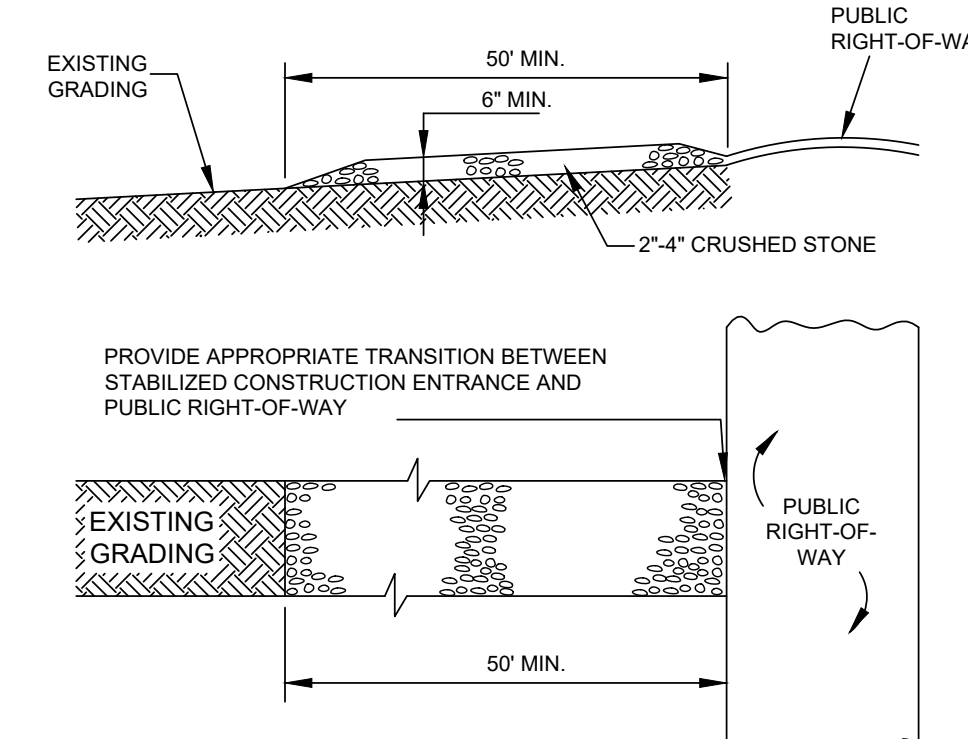
1. Sheet SE-4 intended to describe the soil sediment and erosion control treatment of this site only. For other details with respect to construction, see appropriate drawings.
  2. All sediment and erosion controls shall be done in conformance with the "Connecticut Guidelines for Soil Erosion and Sediment Control" dated May 2002 prepared by The Connecticut Council on Soil and Water Conservation.
  3. The contractor is assigned the responsibility for implementing this sediment and erosion control plan. This responsibility includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of the plan notifying the Zoning Department of any transfer of this responsibility, and EPB that construction is to begin three (3) days prior to commencing work.
  4. Temporary sediment control measures and tree protection must be installed in accordance with drawings and manufacturer recommendations prior to work in any upland areas.
  5. No construction or construction equipment or storage of materials will be allowed on the downhill side of the silt fence or within fenced off areas, except during construction of the proposed facilities shown beyond the fences.
  6. Where existing trees are to be saved, trees shall be protected with trunk armoring where shown. Tree limbs shall be trimmed as needed to protect the trees from damage by construction operations. Such trimming shall be minimized. Armoring and any limb trimming should be done before construction begins. Tree protection should be maintained during construction. Equipment Trafficking and materials storage over the tree roots shall be avoided.
  7. Tracking pads shall be installed at start of construction and maintained in an effective condition throughout the duration of construction. Pads consist of 2" - 4" crushed stone, 6" minimum thickness and extend the width of the construction access. The length of the access shall be sufficient to prevent dirt from being tracked onto site roads (minimum length of 50').
  8. The location of each stockpile will vary throughout the construction period. Excavated silt and earth stockpiles shall be stored on site. Silt fence shall be placed at the base of the stockpile to prevent sediment from leaving the site and to protect storm drains, wetlands and watercourses.
  9. Silt fence shall be Mirafi envirofence, Amoco siltstop or equivalent approved by Site Engineer. Filter fabric used shall be Mirafi 100x or equivalent. Install silt fence according to manufacturer's instruction, particularly, bury lower edge of fabric into ground.
  10. Land disturbance shall be kept to a minimum. All disturbed area shall be planted in where permanent plantings are called for as soon as practicable. Seed and mulch disturbed areas with grass seed where permanent plantings are not called for, as soon as practicable. Prepare seedbed (4" thick minimum) with topsoil. Seed, rake, roll, water and mulch areas according to mixes below. Water as often as necessary (up to 3 times per day) to establish cover. Mulch seeded areas at 1 to 2 tons/acre with salt hay. Maintain mulch and watering until grass is 2" high with 85% cover. Reseed or overseed if necessary.
- Temporary Seed Mix:  
 Perennial ryegrass 40 lbs./ac. (1 lb/1000 sf)  
 Permanent Lawns:  
 Kentucky Bluegrass 20 lbs./ac.  
 Creeping Red Fescue 20 lbs./ac.  
 Perennial Ryegrass 5 lbs./ac.  
 45 lbs./ac. (1 lb/1000 sf)
- Optimum Seeding Dates:  
 April 15 through June 15  
 August 15 through October 1
11. If disturbed areas can not be seeded immediately due to the time of year, mulch area until seeding can occur; remove mulch and seed and remulch when season permits.
  12. Mulch shall be replaced with erosion control blankets where specified on the plan. Blankets shall be jute netting installed as per the details. Additional areas may have to be covered with blankets as directed by the Site Engineer. Other blankets and methods may be used if approved by the site engineer.
  13. All runoff from dewatering activities shall be filtered through 2 rows of silt fence backed with haybales and directed towards a temporary sediment trap.
  14. Contractor shall contact GZA Environmental for information regarding soil and groundwater contamination prior to any dewatering activities.
  15. Upon installation of each catch basin and area drain, immediately surround it with haybales as per sediment filter detail.
  16. Haybales shall be new and are to be replaced whenever their condition deteriorates beyond reasonable usability.
  17. Temporarily block pipes leading into the storm water infiltration system until upland areas are thoroughly stabilized. Under no circumstances shall sediment or silty water be allowed to enter the infiltration system.
  18. Pavement and curbing should be placed as soon as possible after drainage is installed.
  19. Loaded trucks shall be covered as required to keep down dust.
  20. Affected portions of off site roads and sidewalks must be swept clean when required to keep down dust and prevent safety hazards or at least once a week during construction and as directed by Site Engineer.
  21. Dust control to be achieved with watering down disturbed areas as required.
  22. After each storm event or once bi-weekly, all sediment and erosion controls shall be inspected. Any corrective actions to mitigate environmental concerns will be ordered by the site engineer or environmental engineer. It is the Owner's responsibility to retain such consultant.
  23. Additional sediment and erosion control measures may be installed during the construction period if found necessary by the inspecting engineer or any Governing Agency.
  24. All permanent and temporary sediment control devices will be maintained in effective condition throughout the construction period until upland disturbed areas are thoroughly stabilized. Upon completion of work and stabilization of all upland areas, all temporary sediment control devices and tree protection should be removed from the site and any silt disposed of legally.
  25. Excavated material from temporary silt traps must be stockpiled on uphill side of silt fence.
  26. Excavated silt and earth stockpiles shall not be permitted to be stored on site. Excess material shall be disposed of legally.
  27. Periodically and upon completion of the job, clean silt from any affected storm sewer systems including pipes and inlets. Use silt during final landscaping or dispose off-site legally.



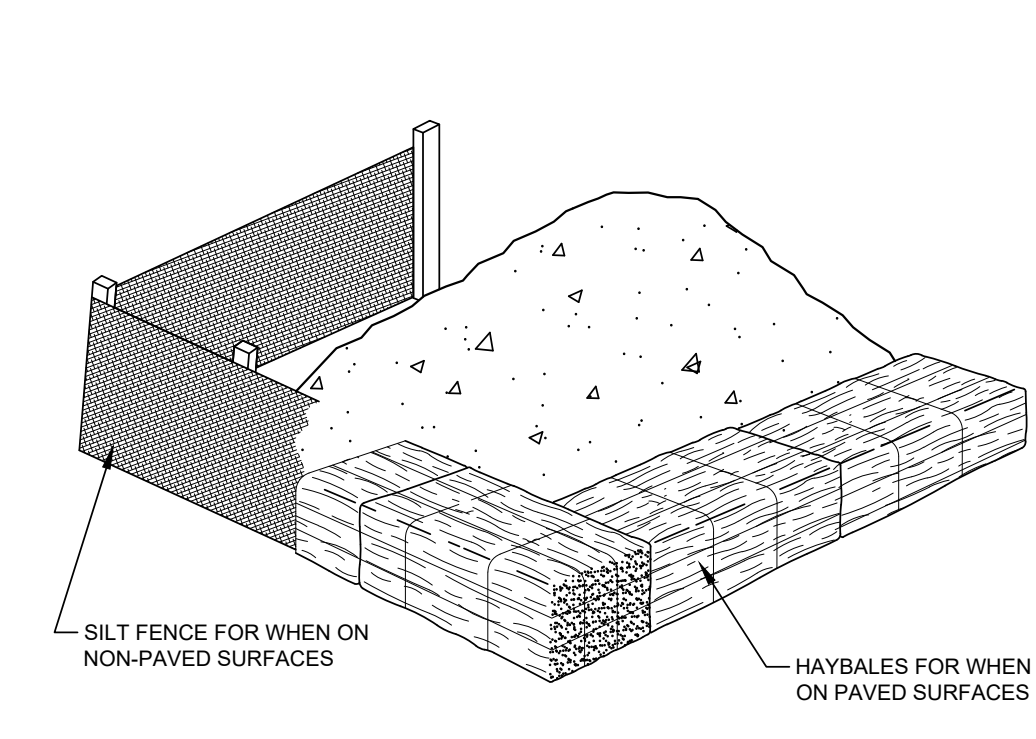
**INLET SEDIMENT CONTROL DEVICE (SILT SACK) N.T.S.**



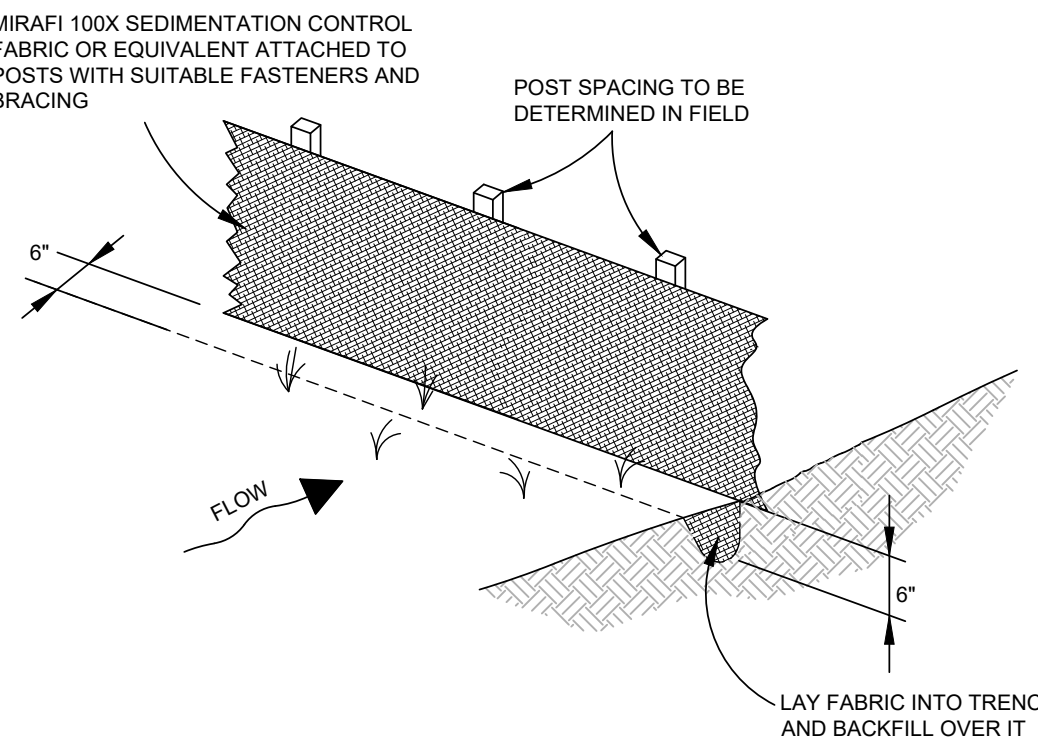
**FABRIC & POST CONSTRUCTION FENCE N.T.S.**



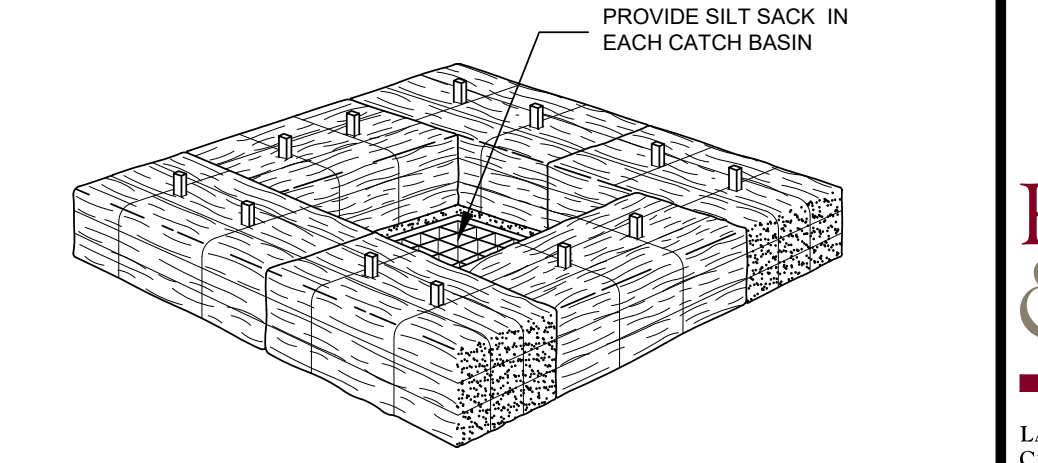
**STABILIZED CONSTRUCTION ENTRANCE (TRACKING PAD) N.T.S.**



**SEDIMENT FILTER FOR STOCK PILE N.T.S.**



**FABRIC & POST SILTATION BARRIER (SILT FENCE) N.T.S.**



**SEDIMENT FILTER FOR CATCH BASINS N.T.S.**

No.	Date	Revision
1	02/03/2022	ISSUED FOR ZONING SUBMISSION

**SITE SEDIMENT & EROSION CONTROL PLAN**  
 DEPICTING  
**0, 441, & 481 CANAL STREET AND 50 JOHN STREET**  
 STAMFORD, CT  
 PREPARED FOR  
**HEYMAN PROPERTIES, LLC.**

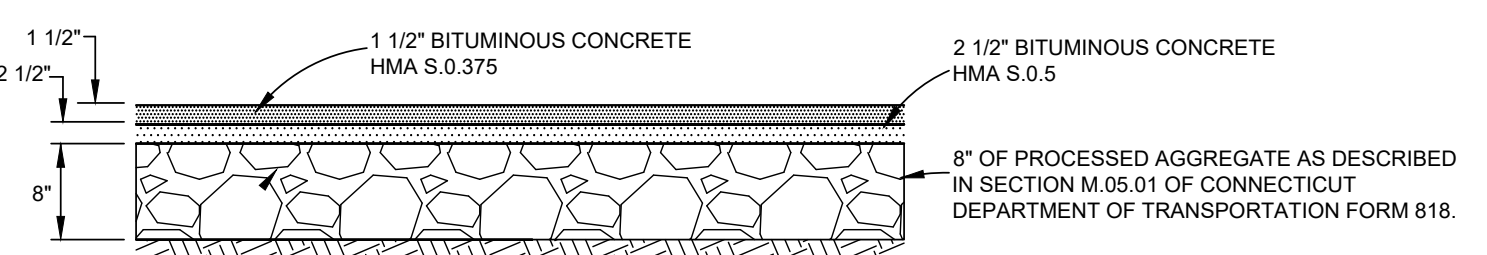
SCALE: 0 30 60  
 1"=30'  
 DRAWN BY: AJP CHECKED BY: BPM  
 BRIAN P. McMAHON CT. P.E. 18337  
 February 3, 2022  
 DATE

REDNISS & MEAD  
 LAND SURVEYING CIVIL ENGINEERING PLANNING & ZONING CONSULTING PERMITTING  
 22 First Street | Stamford, CT 06905  
 Tel: 203.327.0500 | Fax: 203.357.1118  
 www.rednissandmead.com

Comm. No.: 7300

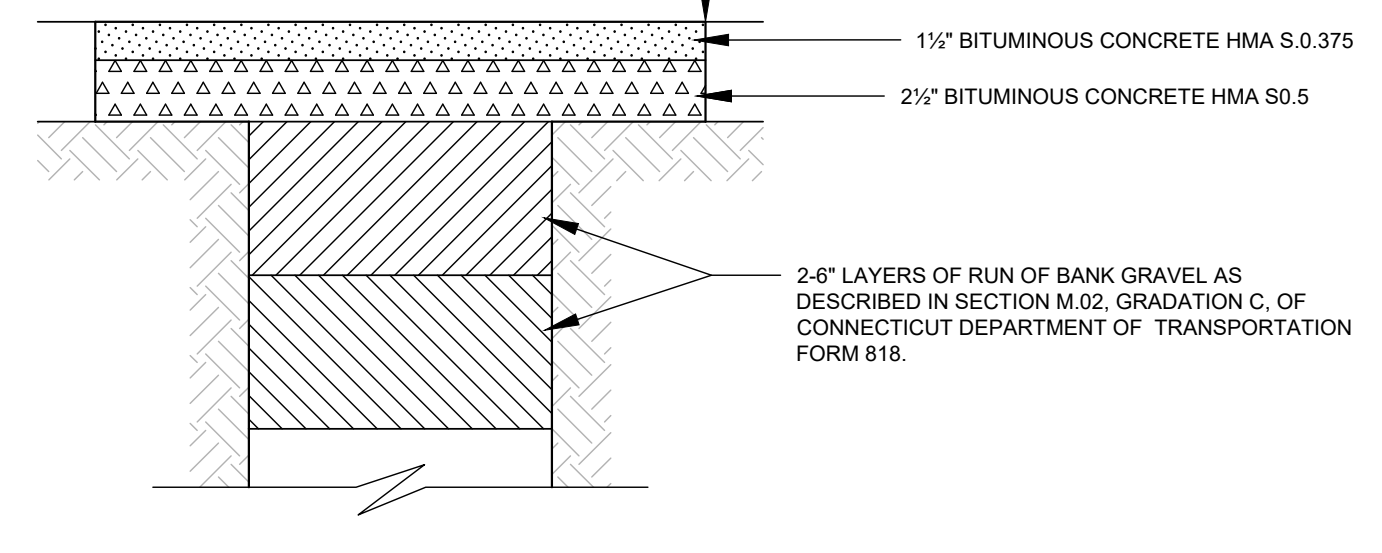
**SE-4**

- NOTES**
1. SIDEWALK CONCRETE SHALL BE POURED TO A UNIFORM DEPTH ON APPROVED BASE.
  3. 1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED BETWEEN NEW SIDEWALK WORK AND ALL RIGID STRUCTURES SUCH AS SANITARY AND DRAINAGE STRUCTURES AND BUILDINGS AND STONE AND CONCRETE MASONRY WALLS. EDGES SHALL BE ROUNDED TO A RADIUS OF 1".
  4. ADDITIONAL CONTROL JOINTS SHALL BE PLACED TO ELIMINATE ANY CONDITION WHICH WILL CAUSE STRESS CONCENTRATIONS (EXAMPLE AT CORNERS OF STRUCTURES). JOINTS SHALL BE ORIENTED AS DIRECTED BY THE ENGINEER.
  5. SURFACE SHALL BE GIVEN A BROOM FINISH ORIENTED PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAFFIC FLOW.

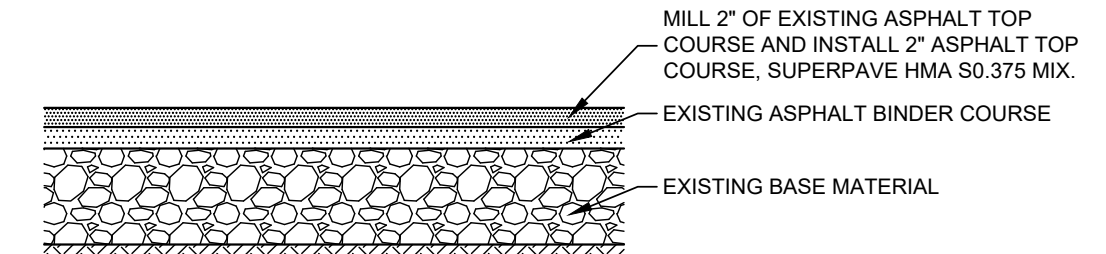


- NOTES**
1. REFER TO PLANS PREPARED BY OTHERS FOR DETAILS OF PAVEMENT DESIGNS AND PAVEMENT WITHIN THE BUILDING.
  2. ALL IMPORTED FILL SHALL BE AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
  3. CONTROLLED FILL SHALL BE PLACED IN UNIFORM 12-INCH-THICK LOOSE LIFTS AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY UNIT WEIGHT AS SPECIFIED BY ASTM D1557-93. IN RESTRICTED AREAS WHERE ONLY HAND-OPERATED COMPACTORS CAN BE USED, THE MAXIMUM LIFT THICKNESS SHOULD BE LIMITED TO 8-INCHES. SITE CIVIL ENGINEER SHALL TAKE SAMPLES TO OBTAIN SIEVE ANALYSIS AND CONFIRM MATERIAL MEETS SPECIFICATION. CONTRACTOR SHALL ALLOW 5 DAYS FOR MATERIAL TESTING. ANY CORRECTIVE MEASURES SHALL BE DONE AT NO COST TO THE OWNER.
  4. A REPUTABLE TESTING LAB SHALL PERFORM COMPACTION TESTING AS REQUIRED BY THE SITE ENGINEER PRIOR TO THE PLACEMENT OF PAVEMENT. COMPACTION TESTING SHALL OCCUR AT THE SUBBASE, BASE AND EACH LAYER OF PAVEMENT.
  5. ALL THICKNESSES SHOWN ARE AFTER COMPACTION.
  6. EXISTING SUB-BASE MUST BE PROOF-ROLLED WITH HEAVY VIBRATORY ROLLER UNDER THE OBSERVATION OF A GEOTECHNICAL ENGINEER. ANY EXISTING FILL THAT PUMPS OR HEAVES UNDER THE INFLUENCE OF THE ROLLER MUST BE REMOVED AND REPLACED WITH CONTROLLED FILL.
  7. SPECIAL ATTENTION OF THE CONTRACTOR IS CALLED TO FOR THE REMOVAL OF UNSUITABLE MATERIAL. REPLACEMENT FILL MATERIAL AND COMPACTION SHALL FOLLOW GEOTECHNICAL ENGINEERING REQUIREMENTS. THESE REQUIREMENTS WILL BE STRICTLY ENFORCED.
  8. REFER TO PROJECT WRITTEN SPECIFICATIONS FOR FURTHER INFORMATION.

**PAVEMENT DETAIL**  
N.T.S.

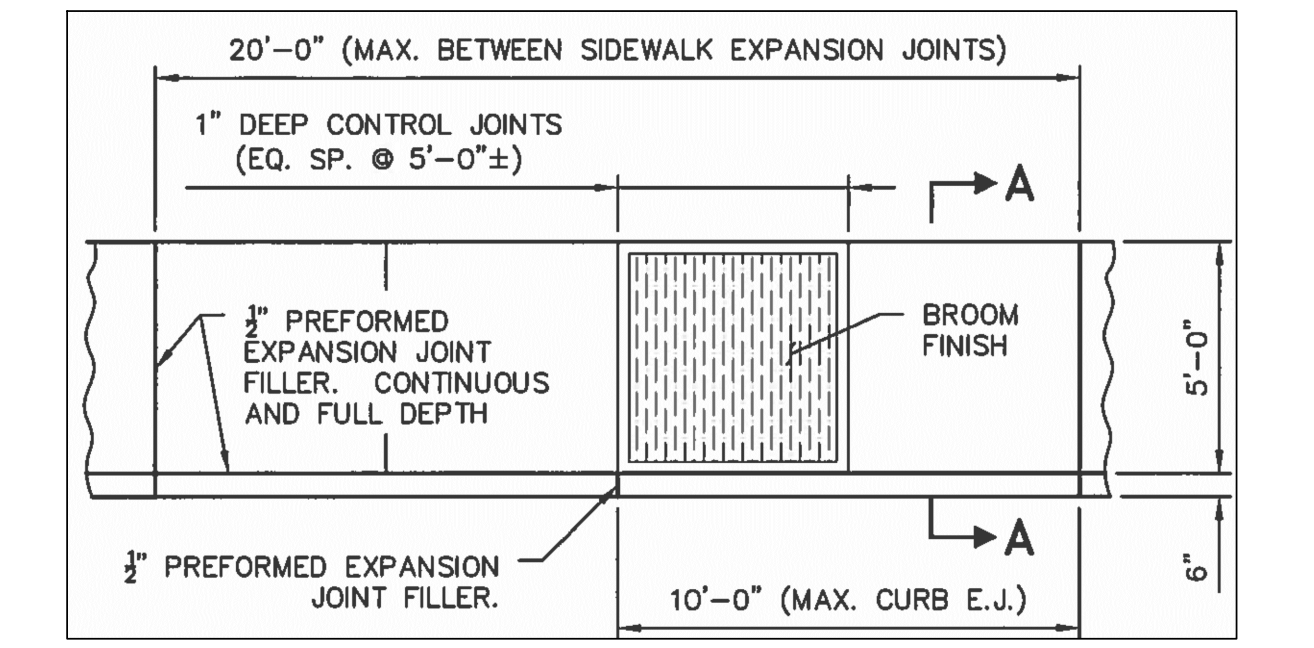


**ASPHALT TRENCH REPAIR**  
N.T.S.



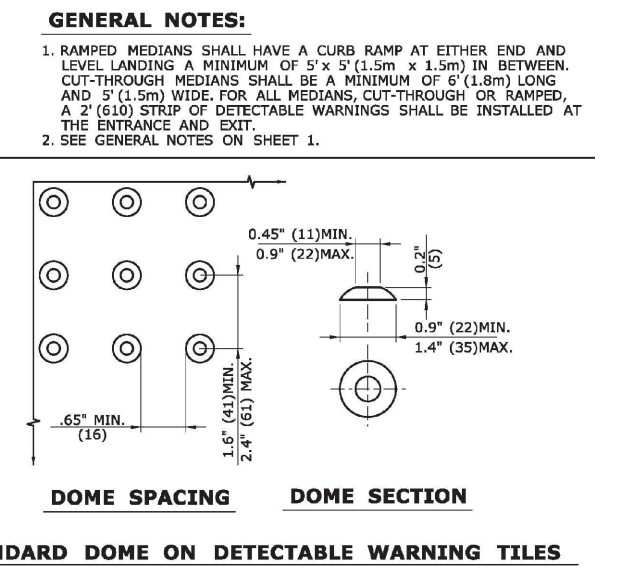
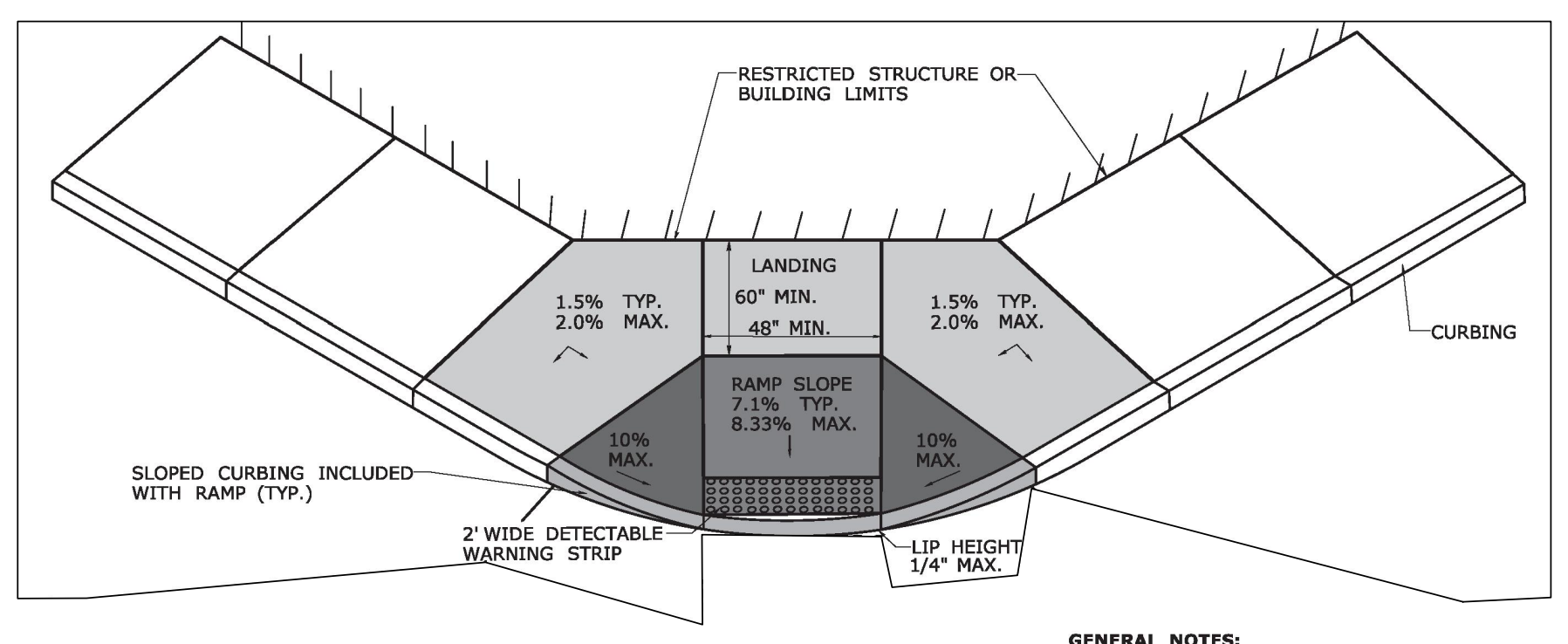
- NOTES**
1. TACK COAT PRIOR TO INSTALLING TOP COURSE OF ASPHALT. TACK COAT SHALL BE APPLIED TO ALL SURFACES THAT HAVE BEEN MILLED. APPLY UNIFORMLY TO EXISTING SURFACES OF PREVIOUSLY CONSTRUCTED ASPHALT OR PORTLAND CEMENT CONCRETE PAVING AND TO SURFACE ABUTTING OR PROJECTING INTO NEW, HOT-MIX ASPHALT PAVEMENT. APPLY AT A UNIFORM RATE OF 0.5 TO 0.15 GAL/SQ. YD. OF SURFACE.
  - 1.1. ALLOW TACK COAT TO CURE UNDISTURBED BEFORE PAVING.
  - 1.2. AVOID SMEARING OR STAINING ADJOINING SURFACES, APPURTENANCES, AND SURROUNDINGS. REMOVE SPILLAGES AND CLEAN AFFECTED SURFACES.
  2. EXISTING PAVEMENT DAMAGED DURING THE CONSTRUCTION DUE TO CONSTRUCTION ACTIVITIES MUST BE REPLACED AS PER THE PAVEMENT REPAIR DETAIL AT NO ADDITIONAL COST TO THE OWNER.
  3. A REPUTABLE TESTING LAB SHALL PERFORM COMPACTION TESTING AS REQUIRED BY THE SITE ENGINEER PRIOR TO THE PLACEMENT OF PAVEMENT. COMPACTION TESTING SHALL OCCUR AT THE SUBBASE, BASE AND EACH LAYER OF PAVEMENT.
  4. ALL THICKNESSES SHOWN ARE AFTER COMPACTION.
  5. PRIOR TO PLACEMENT OF ASPHALT, BASE MATERIAL SHALL BE OBSERVED AND UNSUITABLE AREAS SHALL BE REPLACED.

**MILL & REPAVE DETAIL**  
N.T.S.

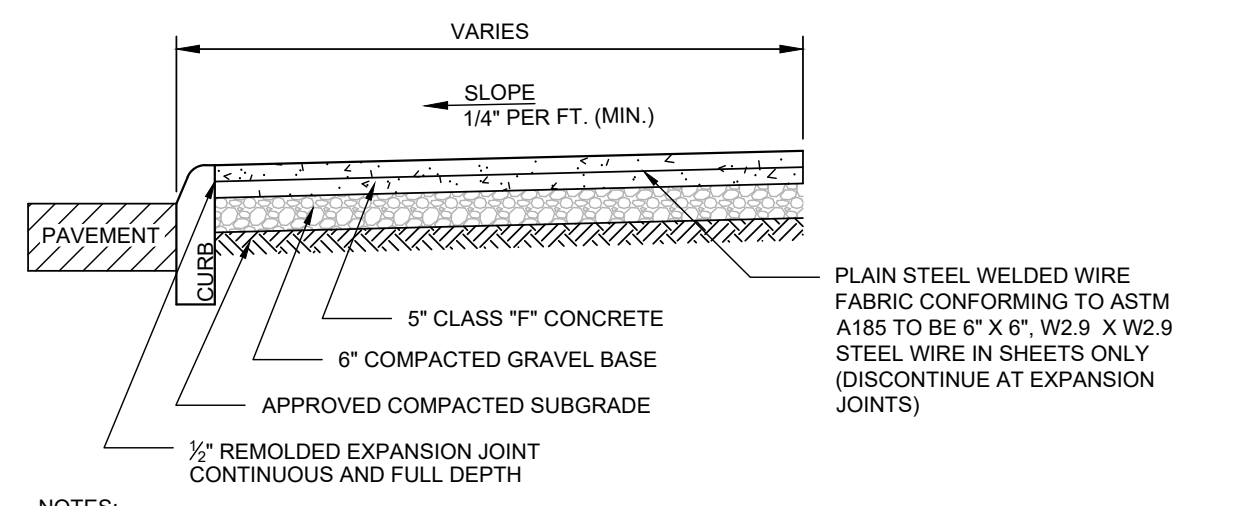


**SCORE PATTERN CONCRETE SIDEWALK DETAIL**  
(OFF-SITE IMPROVEMENTS - WEST SIDE OF JOHN STREET)  
N.T.S.

- GENERAL NOTES:**
1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP SHOULD NOT EXCEED 5%. THE MAXIMUM GRADE DIFFERENCE BETWEEN THE GUTTER AND CURB RAMP SHALL NOT EXCEED 1.3%. SEE DETAIL 1 ON SHEET 4.
  2. RAMP GRADE SHALL BE UNIFORM, FREE OF SACS AND ABRUPT GRADE CHANGES. RUNNING SLOPES OF RAMPS SHALL NOT EXCEED 8.33% AND SHALL NOT EXCEED 15' (4.5m) WITHOUT PROVIDING A LANDING.
  3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "F" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
  4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE OF ALL SIDEWALK RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT. SURFACE DISCONTINUITIES SHALL NOT EXCEED 1/2" (13 MAX. VERTICAL DISCONTINUITIES BETWEEN 1/4" (6.4) AND 1/2" (13) MAX. SHALL BE BEVELLED 1:2 MINIMUM APPLIED ACROSS THE ENTIRE LEVEL CHANGE.
  5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. DIAGONAL AND PERPENDICULAR RAMPS SHOULD NOT BE INSTALLED WHERE CURB RADII IS LESS THAN 20'(6096). TANGENT OF THE CURB RADIUS FOR THE DESIGNATED ACCESSIBLE ROUTE BOTH LONGITUDINAL SIDES OF THE RAMP SHOULD BE THE SAME LENGTH. SKewed RAMPS SHOULD BE AVOIDED. FLARES ARE NOT CONSIDERED PART OF PEDESTRIAN ACCESS ROUTE. DIAGONAL RAMPS SHOULD NOT BE INSTALLED WHERE CURB RADII IS LESS THAN 20'(6096).
  6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT. 8.33% MAXIMUM SLOPE MAY NOT BE ACHIEVABLE DUE TO EXISTING SIDEWALK GRADE. IN RECOGNITION OF THIS, A LIMIT OF 15' (4572) FOR REMOVAL SHALL BE USED UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK RAMP" OR "CONCRETE SIDEWALK".
  7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' (3658) UNLESS OTHERWISE NOTED.
  8. CONCRETE SIDEWALK RAMPS SHALL BE PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK RAMP", AS DEFINED BY THE CONSTRUCTION LIMITS ON THE PLANS AND SHALL BE FIELD VERIFIED.
  9. SIDEWALK RAMPS SHALL BE CONSTRUCTED WITH THE TOP AT THE GUTTER CAST INTEGRALLY WITH RAMP UNLESS DIRECTED OTHERWISE BY THE ENGINEER (SEE TYPICAL SECTION ON SHEET 3). CURB REMOVAL AND CAST IN PLACE CURBING REQUIRED FOR THE RAMP, SHALL BE INCLUDED WITH PAY ITEM "CONCRETE SIDEWALK RAMP". CURBING OUTSIDE LIMITS OF RAMP OR LANDINGS SHOWN ON SHEET 3 SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
  10. PREFERRED LOCATION TO INSTALL DETECTABLE WARNING STRIP SHALL BE 6" (152) FROM THE EDGE OF ROAD ALONG THE FULL WIDTH OF THE RAMP. FOR ALTERNATE LOCATIONS, REFER TO DETECTABLE WARNING PLACEMENT DETAILS ON SHEET 4.
  11. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF RUNNING SLOPE (PERPENDICULAR TO CURB OR SLOPE BREAK). THE TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH WITHOUT A LIP.
  12. WHERE COMMERCIAL DRIVEWAYS ARE PROVIDED WITH TRAFFIC SIGNALS AND THE SIDEWALK IS CONTINUOUS THROUGH DRIVEWAY, DETECTABLE WARNINGS ARE REQUIRED AT THE JUNCTION BETWEEN THE PEDESTRIAN ROUTE AND DRIVEWAY.
  13. CONSTRUCT A SIDEWALK CURB WHEN THERE IS INSUFFICIENT BUFFER AVAILABLE TO GRADE OR WHEN CALLED FOR IN PLANS, PAID FOR WITH SIDEWALK RAMP WHEN REQUIRED FOR RAMP.
  14. THE TOP AND BOTTOM OF RAMPS SHOULD BE PROVIDED WITH A 4" x 4" (1219 x 1219) MINIMUM LEVEL LANDING AREA WITH A CROSS SLOPE LESS THAN OR EQUAL TO 2% IN ANY DIRECTION.
  15. UTILITY POLES, LUMINAIRE, PEDESTRIAN OR SIGNAL POLES, GRATES, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON RAMPS, LANDINGS, BLENDING TRANSITIONS, AND @ GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.
  16. APPROACH SIDEWALK WIDTHS, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
  17. APPROACH SIDEWALK AND LANDING CROSS SLOPE SHALL NOT EXCEED 2%.
  18. THE RUNNING OR CROSS SLOPES ON LANDINGS AT MID BLOCK CROSSING MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
  19. FOR PERPENDICULAR CURB RAMPS A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE TOP OF CURB RAMP. WHERE THE LEVEL LANDING IS RESTRICTED ON THE BACK OF SIDEWALK THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE RAMP RUN.
  20. FOR PARALLEL CURB RAMPS, A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE BOTTOM OF CURB RAMP. IF THE LEVEL LANDING IS RESTRICTED ON 2 OR MORE SIDES, THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
  21. WHEN WIDTH OF SIDEWALK IS >48" AND A PERPENDICULAR SIDEWALK RAMP IS INSTALLED, THE FLARED SIDES SHALL BE 10% MAX. IF WIDTH OF SIDEWALK IS <48" THE FLARED SIDES MUST NOT EXCEED 8.33% (12:1).
  22. SHADED AREAS ARE TYPICAL PAY LIMITS FOR CONCRETE SIDEWALK RAMP BUT, MAY VARY AS DIRECTED BY THE ENGINEER.
  23. OPTIONAL RAMP, WHEN REQUIRED, SHALL BE PAID FOR AS PART OF CONCRETE SIDEWALK RAMP.

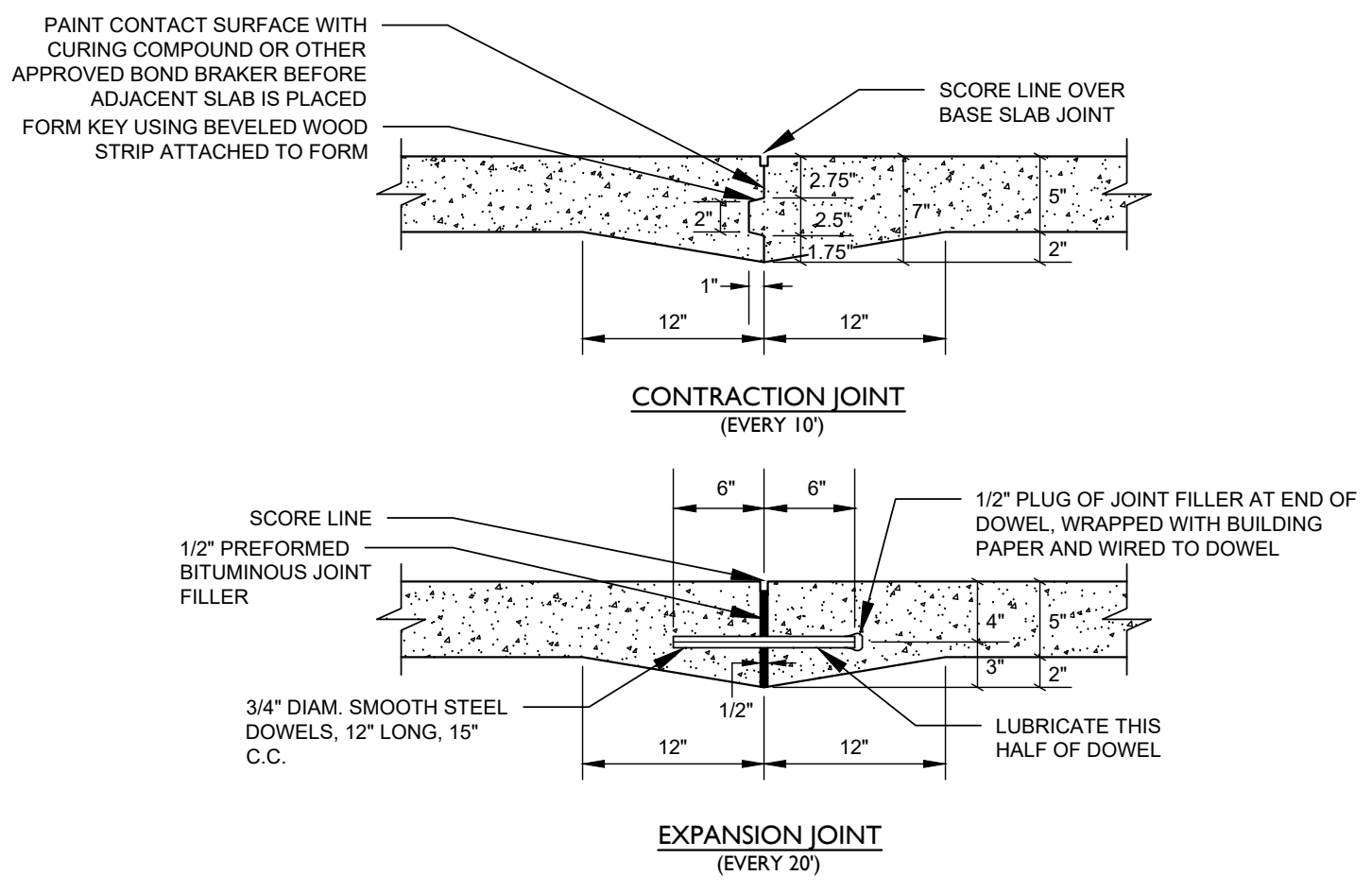


**CT DOT TYPE 6 PEDESTRIAN RAMP DETAILS**  
DOCK STREET  
N.T.S.

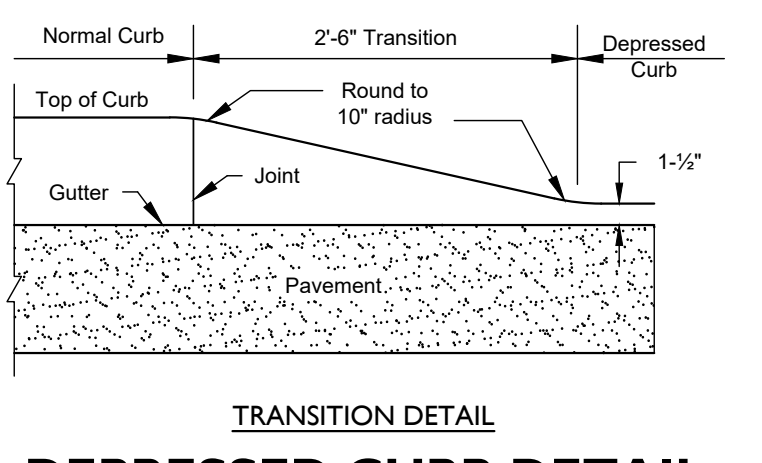
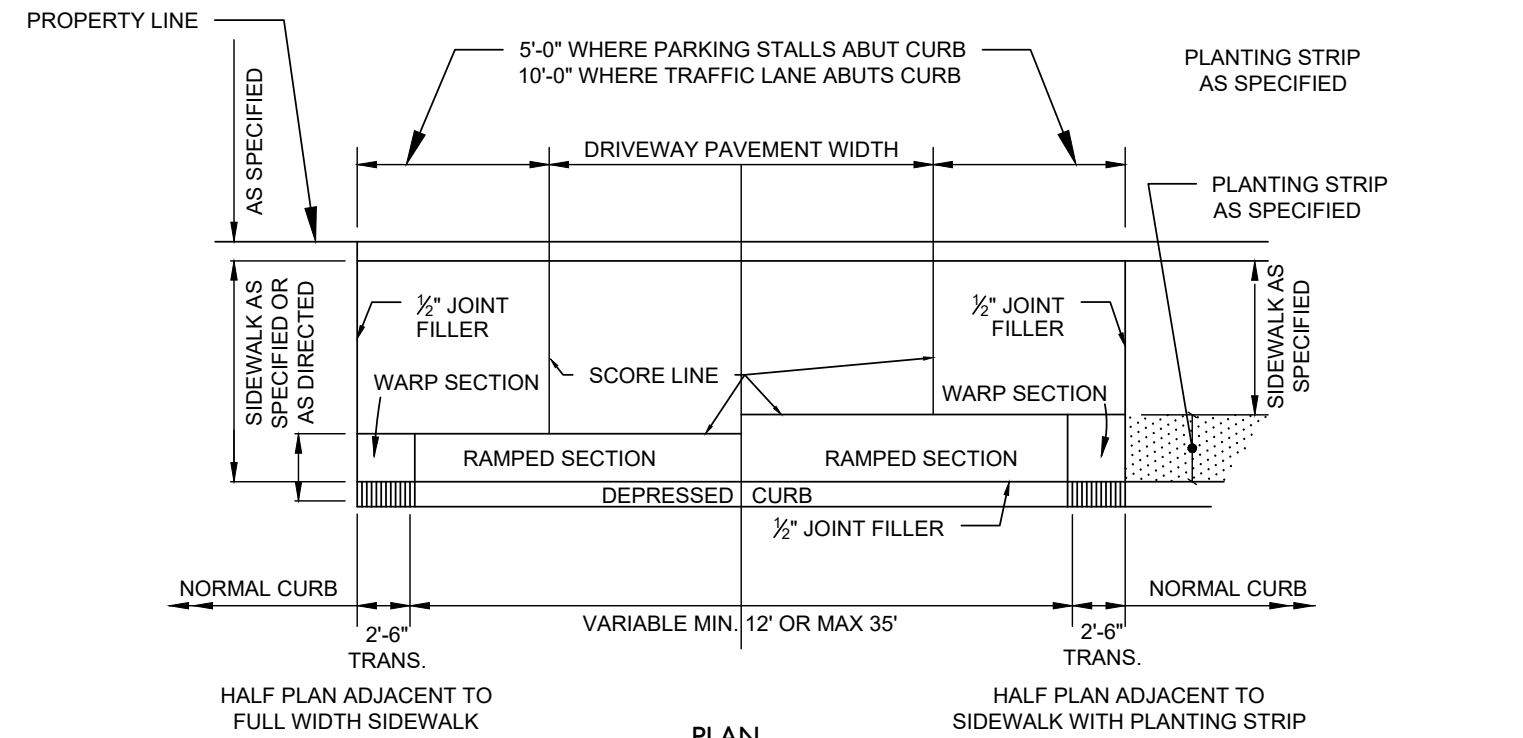


- NOTES**
1. CONCRETE TO BE CLASS "F" CONFORMING TO CT DOT FORM 818 SECTION M.03.02.
  2. GRAVEL BASE SHALL CONFORM TO GRADATION A AS DEFINED IN ConnDOT FORM 818 SECTION M.02.01.
  3. INSTALL AS PER THE AMERICAN CONCRETE INSTITUTE CODE.
  4. THE AREA SHALL BE COMPACTED TO AT LEAST 95% OF THE DRY DENSITY ACHIEVED BY ASTM D1557.
  5. CONTRACTION JOINTS PLACED IN A SQUARE PATTERN AS PER DETAIL.
  6. DRAW A SOFT BRISTLED BROOM ACROSS FLOW-FINISHED CONCRETE SURFACE. PERPENDICULAR TO LINE OF TRAFFIC TO PROVIDE A UNIFORM, FINE LINE TEXTURE.

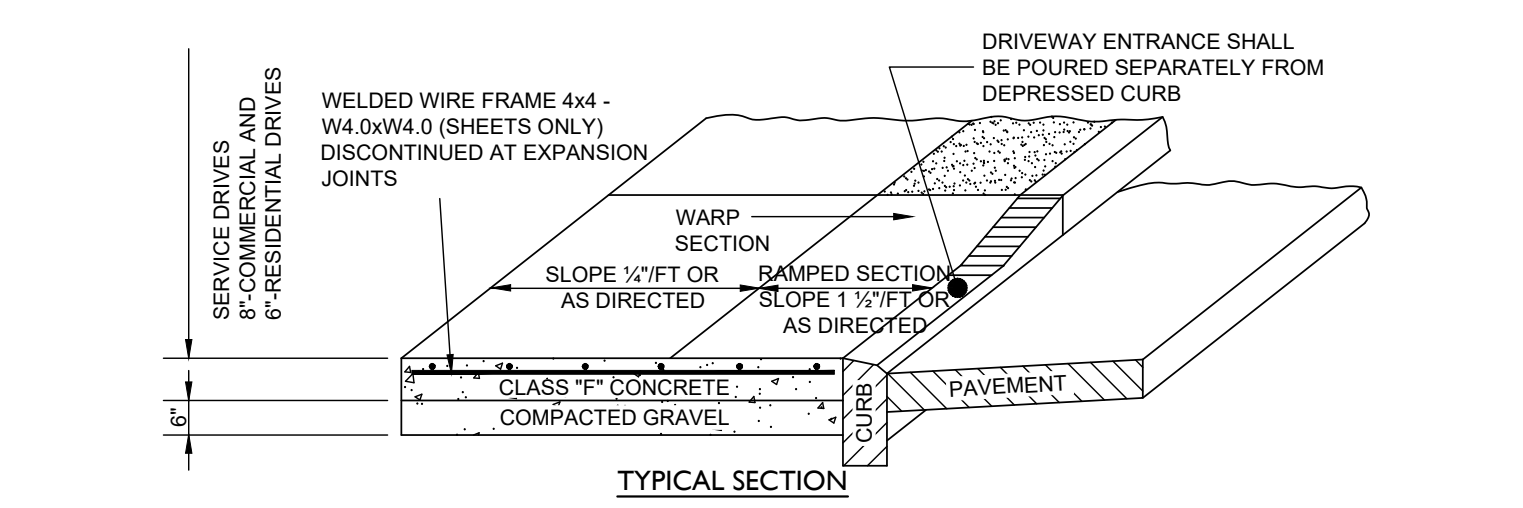
**CONCRETE SIDEWALK**  
N.T.S.



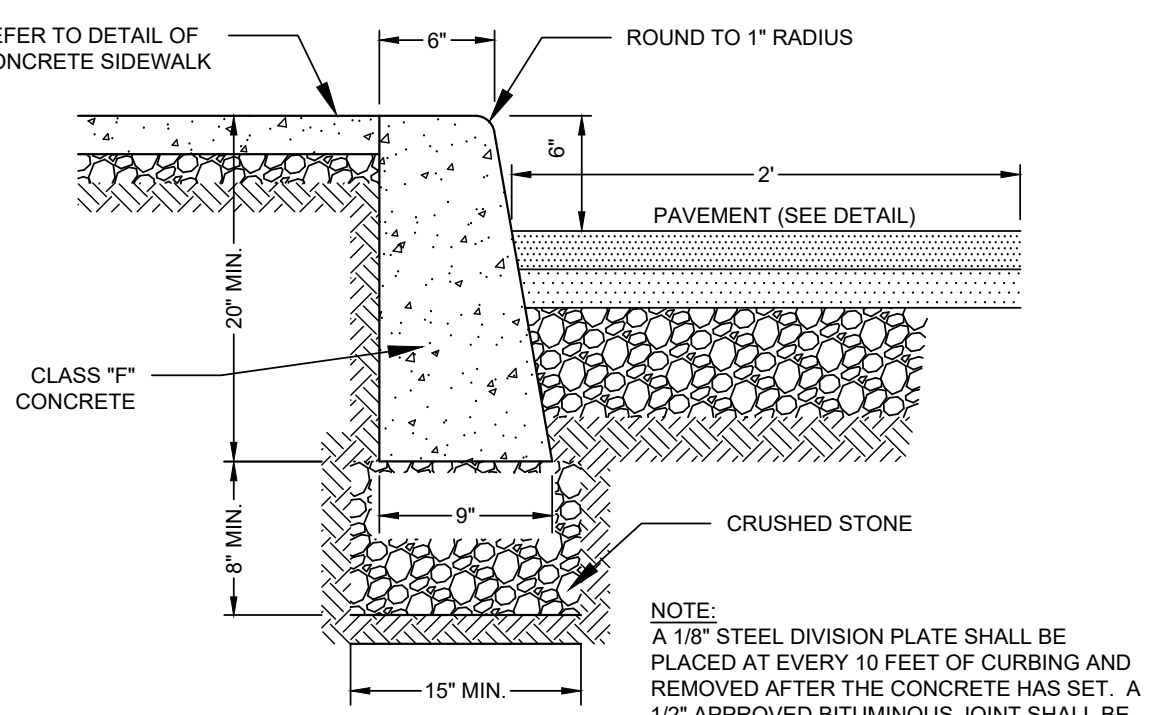
**CONCRETE SIDEWALK JOINT DETAILS**  
(OFF-SITE IMPROVEMENTS)  
N.T.S.



**DEPRESSED CURB DETAIL**  
N.T.S.



**REINFORCED CONCRETE DRIVEWAY ENTRANCE**  
N.T.S.



**CONCRETE CURB**  
N.T.S.

1	02/03/2022	ISSUED FOR ZONING SUBMISSION
No.	Date	Revision

**DETAILS**  
DEPICTING  
**0, 441, & 481 CANAL STREET**  
**AND 50 JOHN STREET**  
STAMFORD, CT  
PREPARED FOR  
**HEYMAN PROPERTIES, LLC.**

SCALE: **N.T.S.**

DRAWN BY: AJP | CHECKED BY: BPM

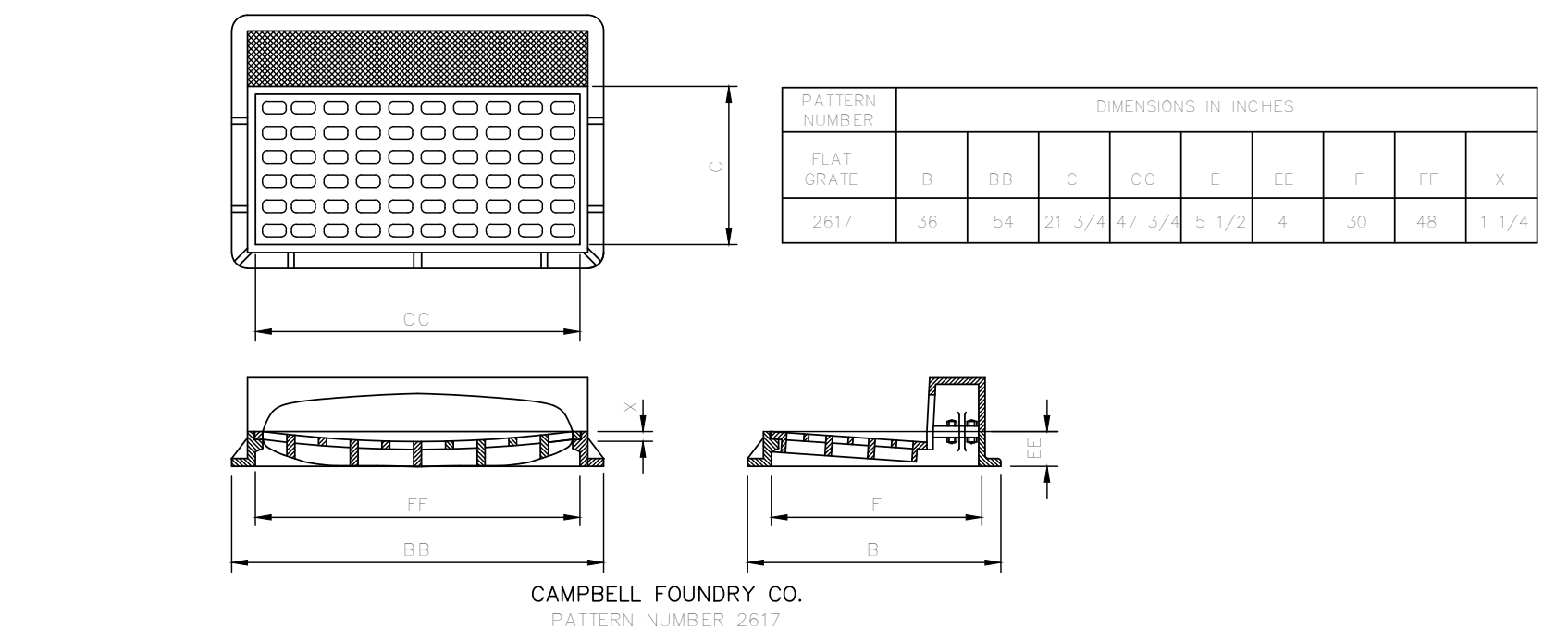
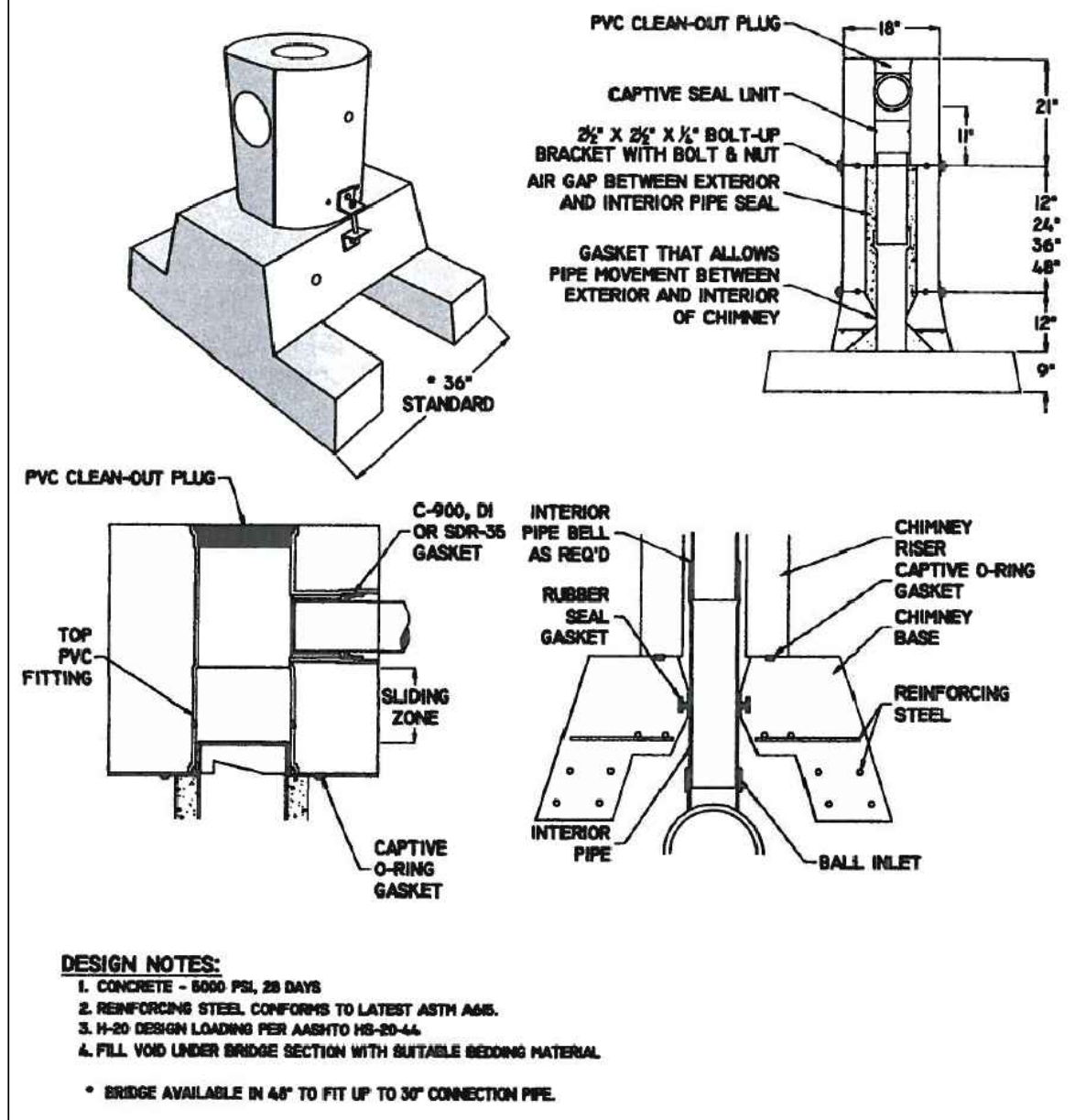
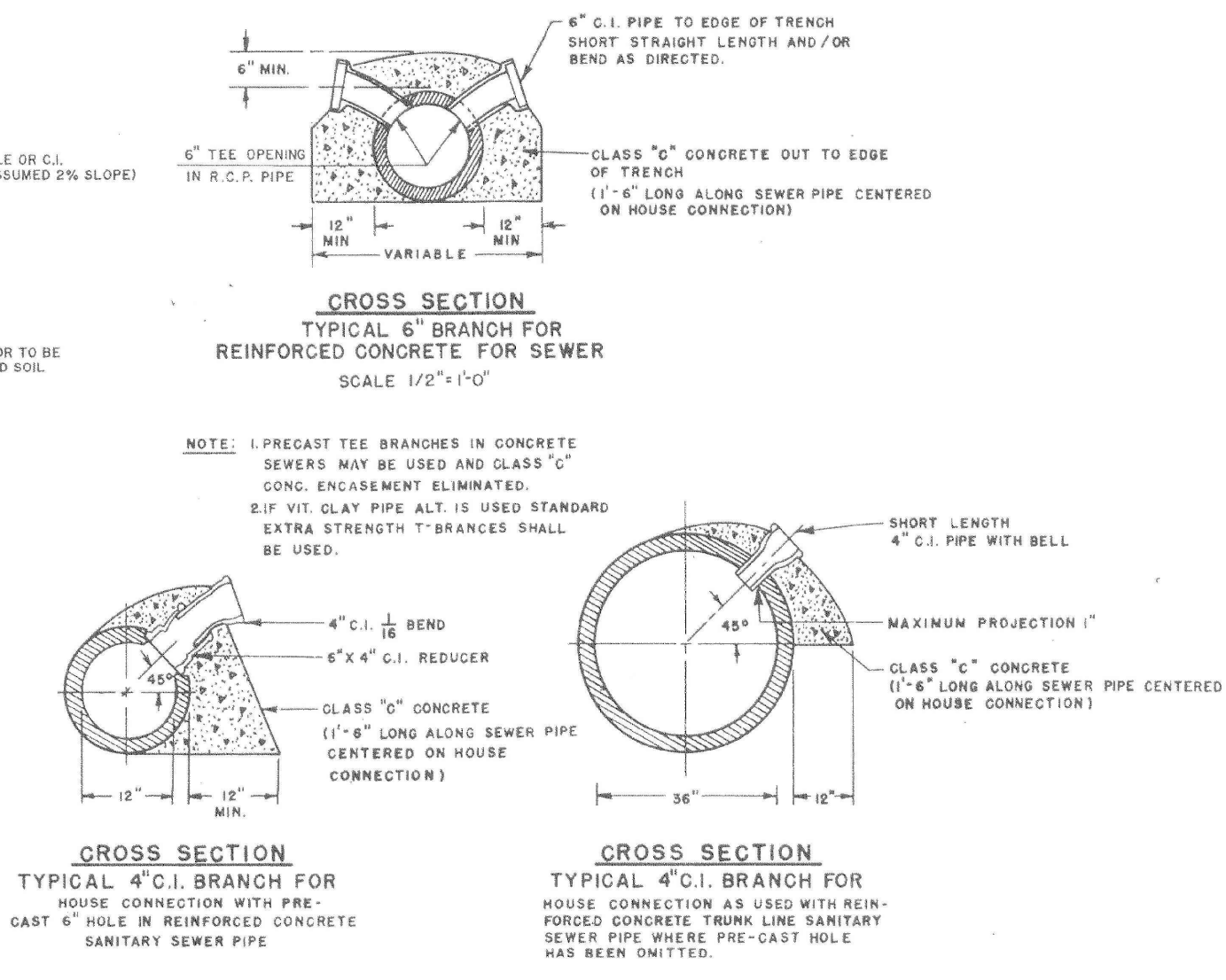
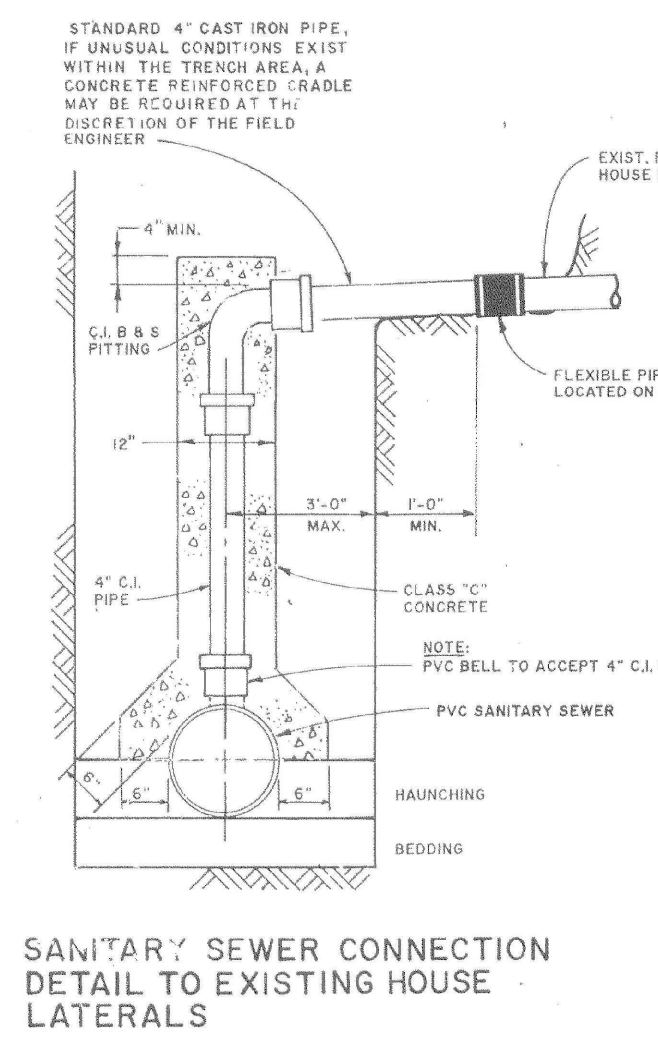
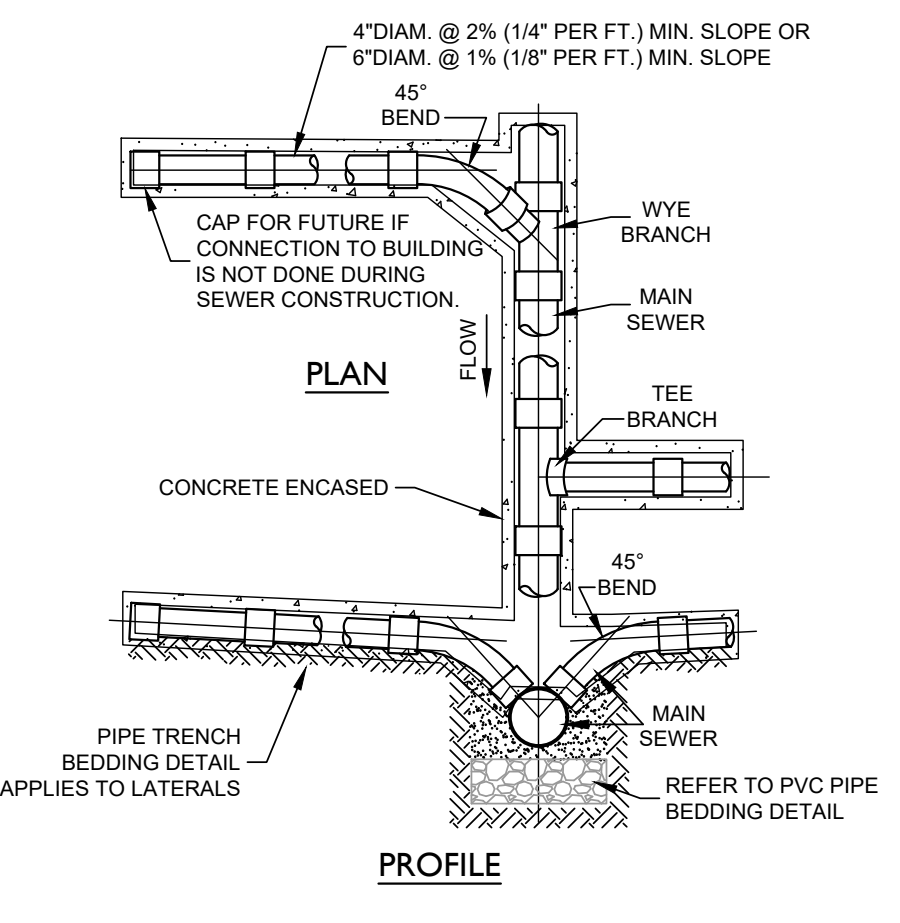
BRIAN P. McMAHON CT. P.E. 18337  
*February 3, 2022*  
DATE

This document and copies thereof are valid only if they bear the signature and seal of the designated licensed professional. Unauthorized alterations render any declaration herein null & void.

SHEET No: **SE-5**

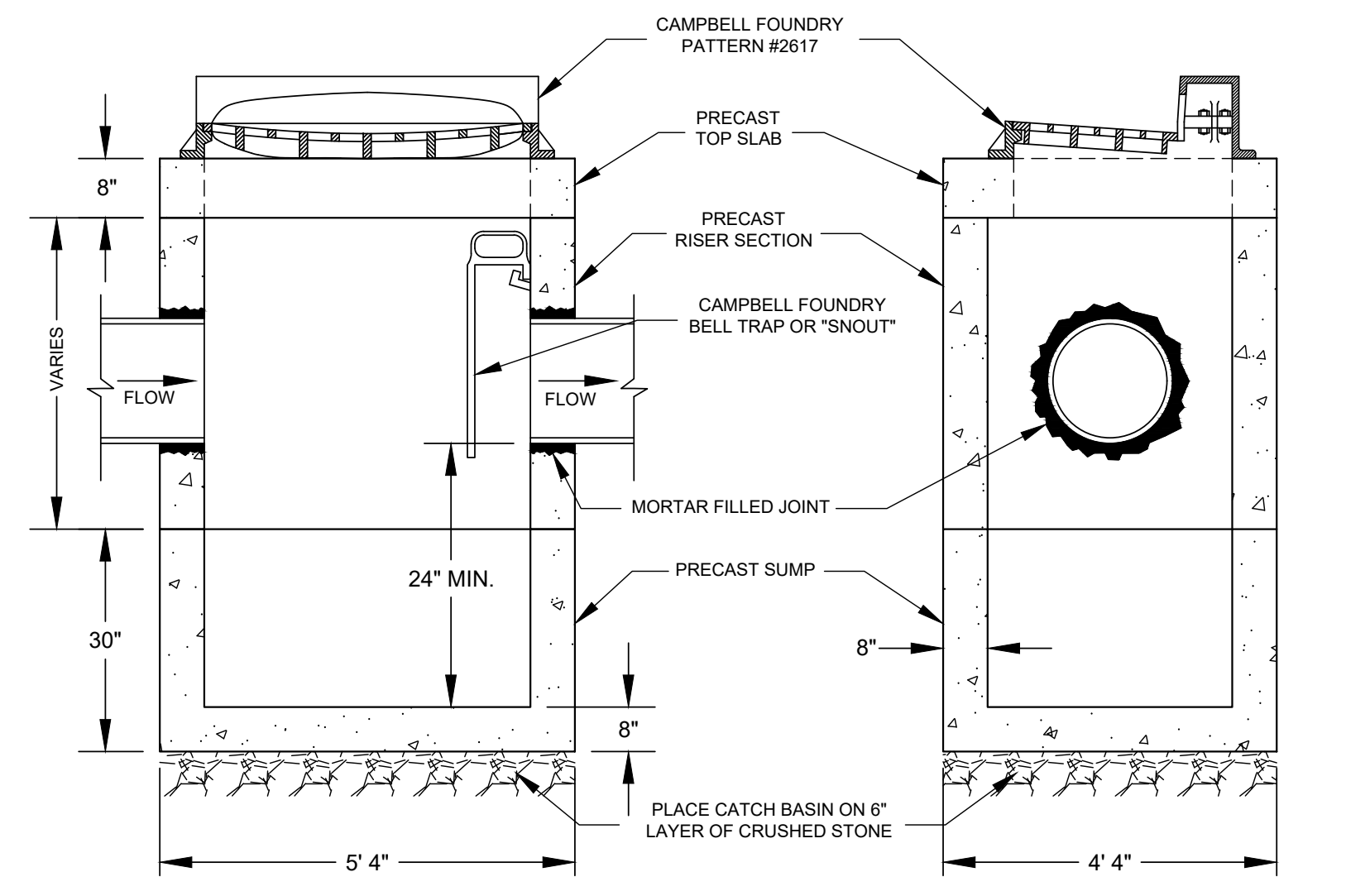
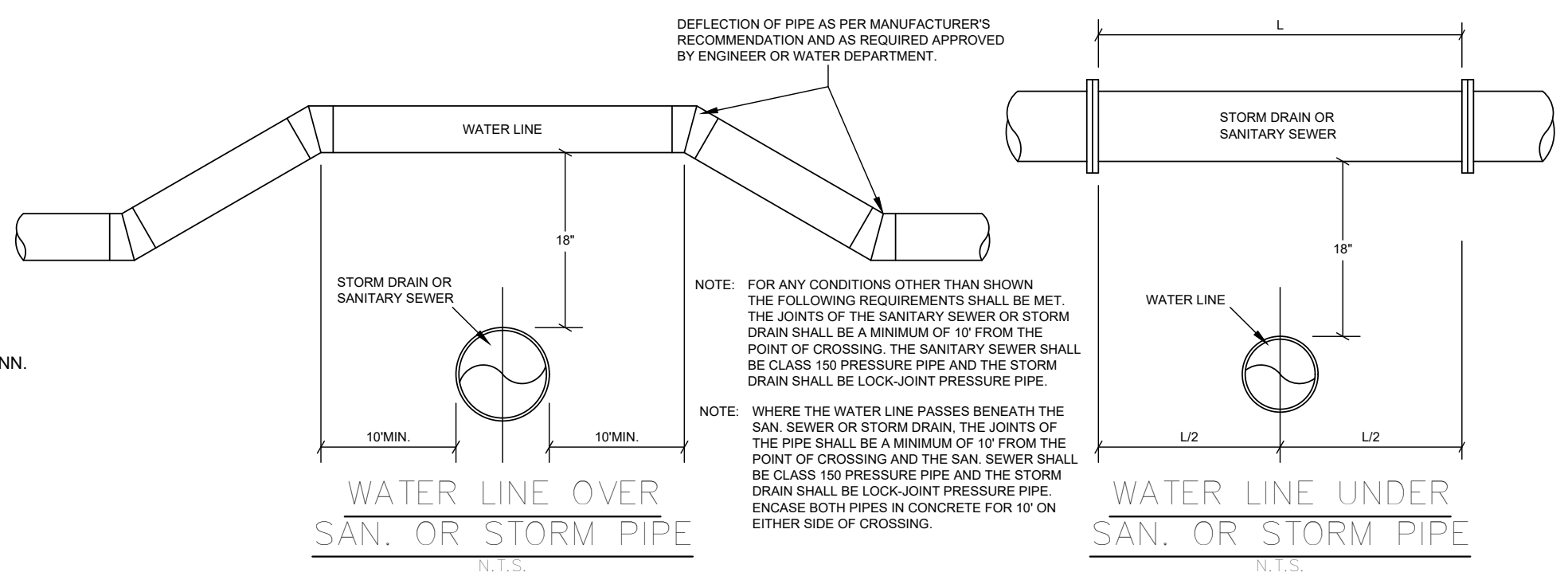
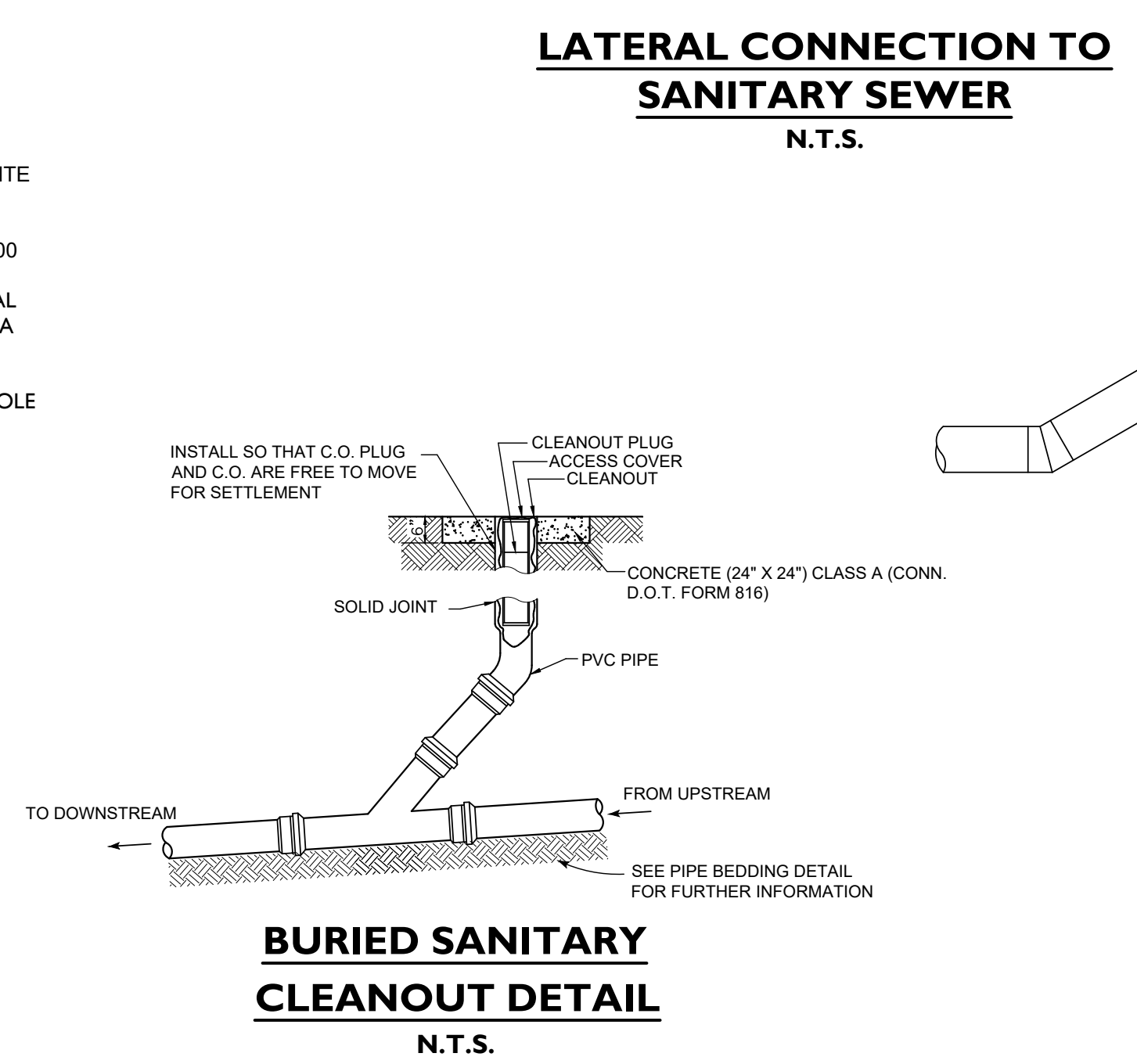
22 First Street | Stamford, CT 06905  
Tel: 203.327.0500 | Fax: 203.357.1118  
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Comm. No.: 7300



- \* NOTE:**
1. SEALTITE MULTI-RANGE SEWER PIPE SADDLE TO BE SIZED AND INSTALLED PER MANUFACTURER INSTRUCTIONS.
  2. APPLICANT AND THEIR CONTRACTOR SHALL COORDINATE AND SCHEDULE THE SEWER LATERAL CONNECTION WITH WPCA'S COLLECTION SYSTEM SUPERVISOR (203-977-5788) AT LEAST 3 WORKING DAYS IN ADVANCE. WPCA PERSONNEL MUST BE ON-SITE TO WITNESS AND PHOTOGRAPH THE SEWER LATERAL CONNECTION TO THE SANITARY CONVEYANCE SYSTEM. THE WORK SHALL OCCUR BETWEEN THE HOURS OF 7:30 A.M. AND 2:00 P.M. MONDAY THROUGH FRIDAY EXCEPT HOLIDAYS.
  3. AS PART OF THE FINAL APPROVAL, THE LOCATION OF THE LATERAL CONNECTION TO THE SANITARY SEWER SHALL BE PROVIDED ON A SKETCH WITH THE FOLLOWING INFORMATION:
    - DISTANCE INFORMATION FROM AT LEAST TWO PERMANENT STATIONS (I.E. TELEPHONE POLE WITH NUMBER, NEAREST MANHOLE COVER, CORNER OF BUILDING WITH ADDRESS, ETC.)
    - DEPTH OF LATERAL CONNECTION
    - CAPPING THE EXISTING LATERALS SHALL BE WITNESSED BY THE STAMFORD BUILDING DEPARTMENT.

**SEALTITE MULTI-RANGE WYE AND TEE SEWER PIPE SADDLE DETAILS (8" PIPE SADDLE ON EXISTING 12" SANITARY PIPE) N.T.S.**



- NOTES:**
1. ALL CATCH BASIN COMPONENTS TO BE PRE-CAST REINFORCED CONCRETE, ABLE TO WITHSTAND THE APPLIED EARTH LOADS WITH AN H-20 TRUCK LOAD.
  2. ALL JOINTS TO BE MORTARED.
  3. CATCH BASIN SHALL CONFORM TO ASTM C478.
  4. ALL CRUSHED STONE SHALL BE GRADATION NO. 4 AS PER CT D.O.T. FORM 818, ARTICLE M.01.01. STONE SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES FREE FROM SOFT, THIN, ELONGATED, LAMINATED, FRIABLE, MICACEOUS OR DISINTEGRATED PIECES, MUD, DIRT OR OTHER DELETERIOUS MATERIAL.
  5. IF CRUSHED STONE IS TO BE PLACED ON FILL, ALL FILL BELOW THE CB SHALL BE COMPACTED TO 95% OF THE MAXIMUM PRD DENSITY AS PER ASTM D.1557.

**CATCH BASIN DETAIL N.T.S.**

1	02/03/2022	ISSUED FOR ZONING SUBMISSION
No.	Date	Revision

**DETAILS  
DEPICTING  
0, 441, & 481 CANAL STREET  
AND 50 JOHN STREET  
STAMFORD, CT  
PREPARED FOR  
HEYMAN PROPERTIES, LLC.**

SCALE: **N.T.S.**

DRAWN BY: AJP      CHECKED BY: BPM

BRIAN P. McMAHON CT. P.E. 18337  
*February 3, 2022*  
DATE

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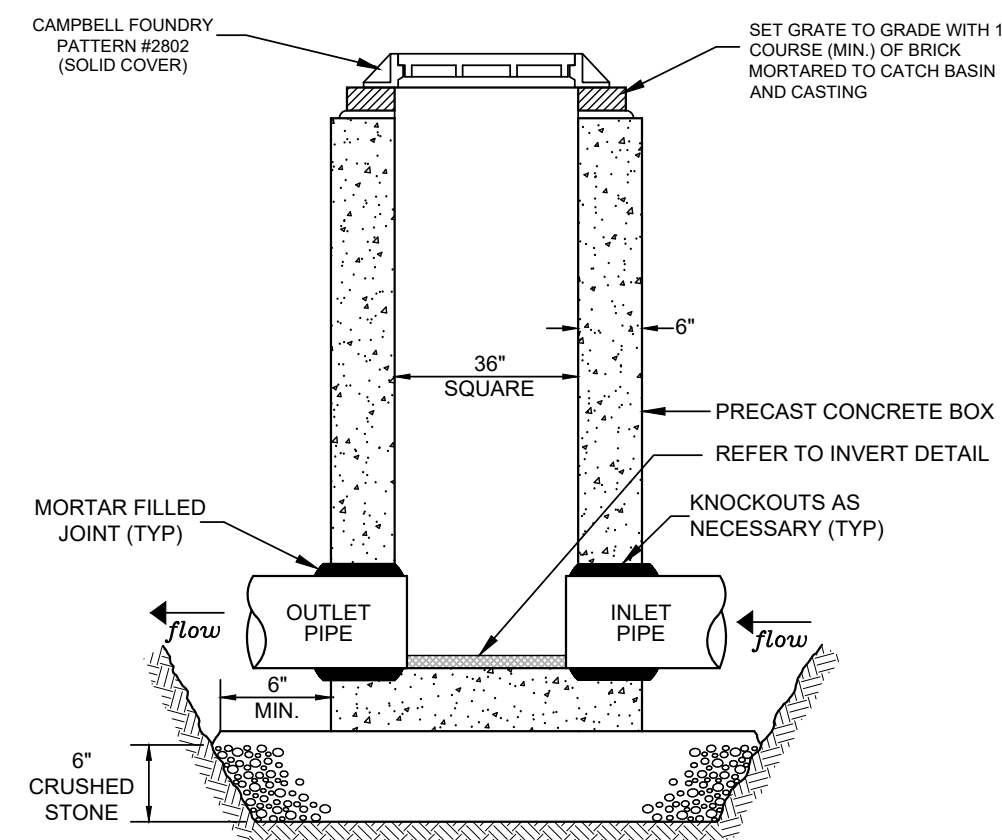
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SHEET No: **SE-6**

Comm. No.: 7300

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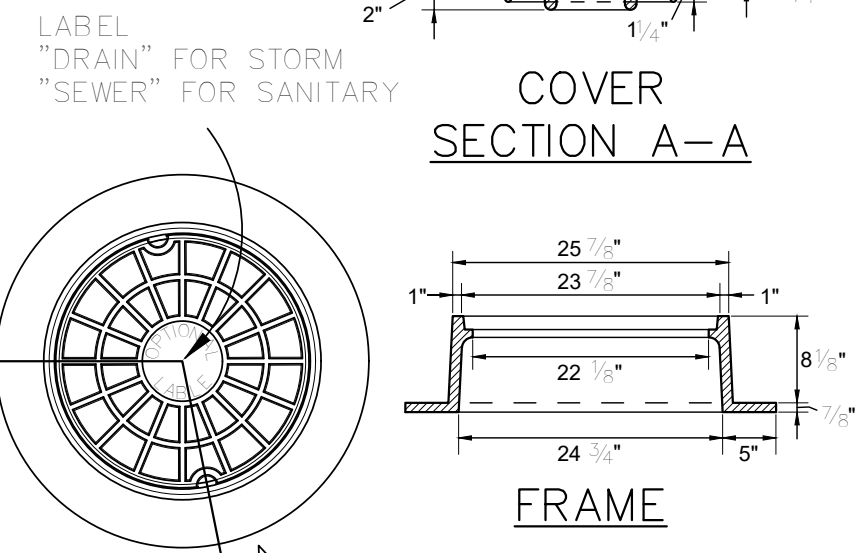


NOTES:  
 1. ALL COMPONENTS TO BE PRE-CAST REINFORCED CONCRETE, ABLE TO WITHSTAND THE APPLIED EARTH LOADS OF AN H-20 TRUCK LOAD.  
 2. ALL JOINTS TO BE MORTARED.  
 3. JUNCTION BOXES SHALL CONFORM TO ASTM C478.  
 4. ALL CRUSHED STONE SHALL BE GRADATION NO. 4 AS PER CT D.O.T. FORM 818, ARTICLE M.01.01. STONE SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES FREE FROM SOFT, THIN, ELONGATED, LAMINATED, FRIABLE, MICACEOUS OR DISINTEGRATED PIECES, MUD, DIRT OR OTHER DELETERIOUS MATERIAL.

**JUNCTION BOX**  
N.T.S.

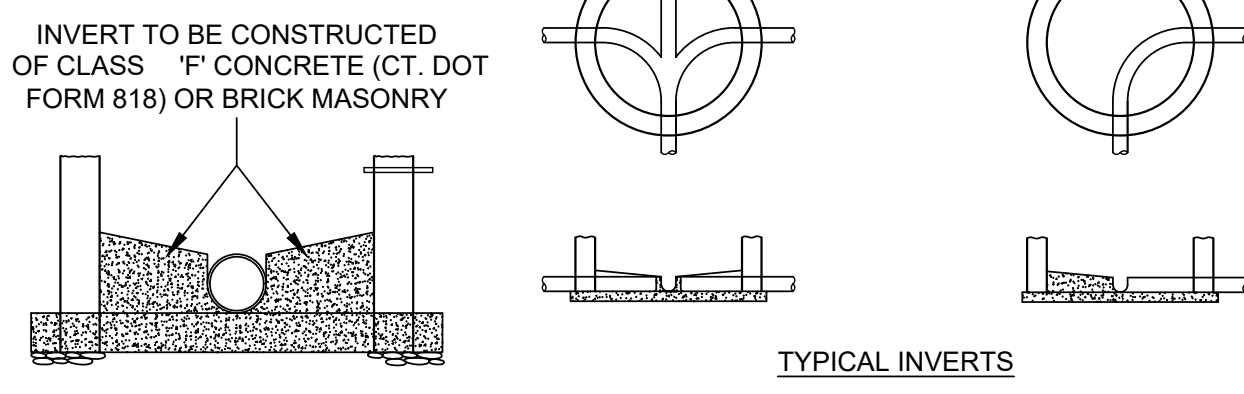
APPROXIMATE WEIGHTS

STEEL	IRON
COVER 157.54 LBS.	144.53 LBS.
FRAME 327.98 LBS.	300.90 LBS.
TOTAL 485.52 LBS.	445.43 LBS.



CAMPBELL FOUNDRY PATTERN NO. 1027\*  
 \*PATTERN NO. 1027A SHALL BE USED FOR LOW PROFILE AREAS.

**STORM AND SANITARY MANHOLE FRAME AND COVER**  
N.T.S.

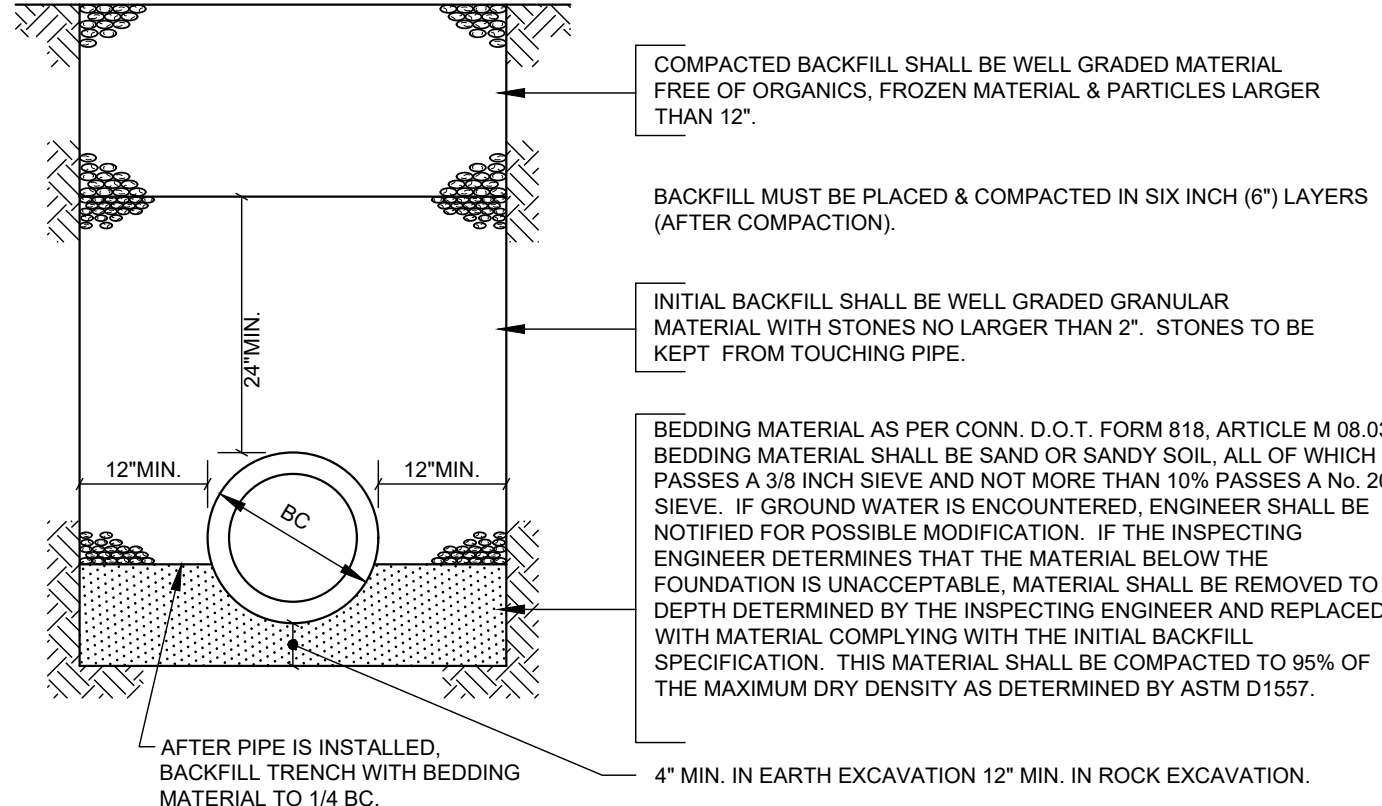


**STORM AND SANITARY MANHOLE INVERT DETAIL**  
N.T.S.

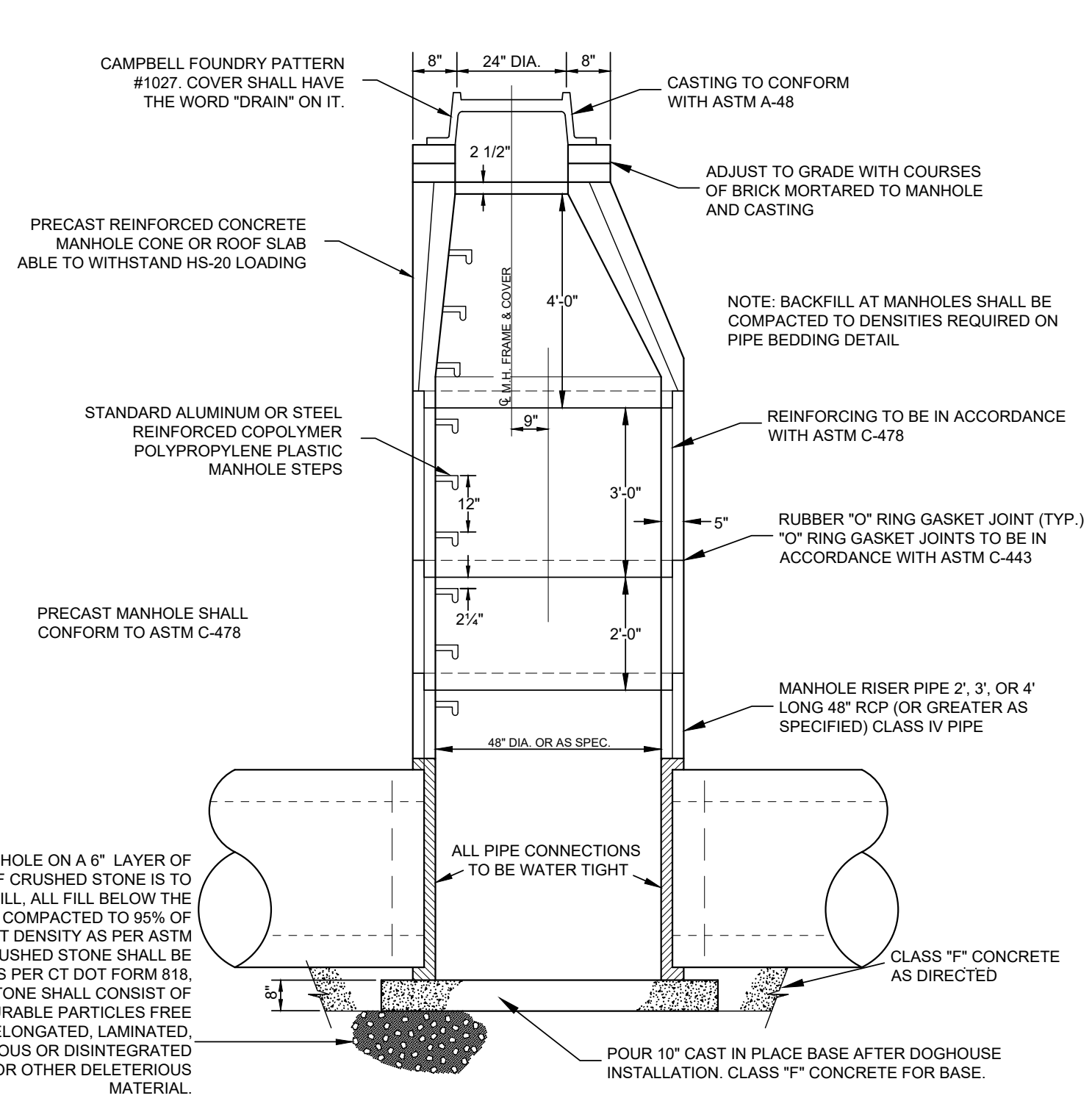
WATER STOP: 10' UPSTREAM OF STRUCTURES AND WHERE SHOWN, FOUNDATION MATERIAL, BEDDING, HAUNCHING, INITIAL BACKFILL, AND THE BOTTOM FOOT OF GENERAL BACKFILL TO BE REPLACED WITH SM, SC, OR ML SOIL AS PER UNIFIED SOIL CLASSIFICATION SYSTEM WITH MAXIMUM PARTICLE SIZE OF 1-1/2". FOR 3 LINEAR FEET OF TRENCH, WATER STOP TO BE KEVED INTO TRENCH BOTTOM AND WALLS A MINIMUM OF ONE FOOT. NO STONES LARGER THAN 6" SHALL BE WITHIN 12" OF THE PIPE.  
 ALL FOUNDATION, INITIAL BACKFILL & BACKFILL MATERIAL TO BE APPROVED BY THE INSPECTING ENGINEER.

ANY DEVIATION FROM THESE METHODS & MATERIALS MUST BE APPROVED IN WRITING BY THE INSPECTING ENGINEER.

ALL MATERIAL TO BE COMPACTED TO 95% OF THE MAX. DRY DENSITY AS DETERMINED BY ASTM D1557, EXCEPT COMPACTED BACKFILL NOT UNDER PAVEMENT WHICH SHALL BE COMPACTED TO A DENSITY AT LEAST EQUAL TO THAT OF THE ADJACENT UNDISTURBED MATERIAL.

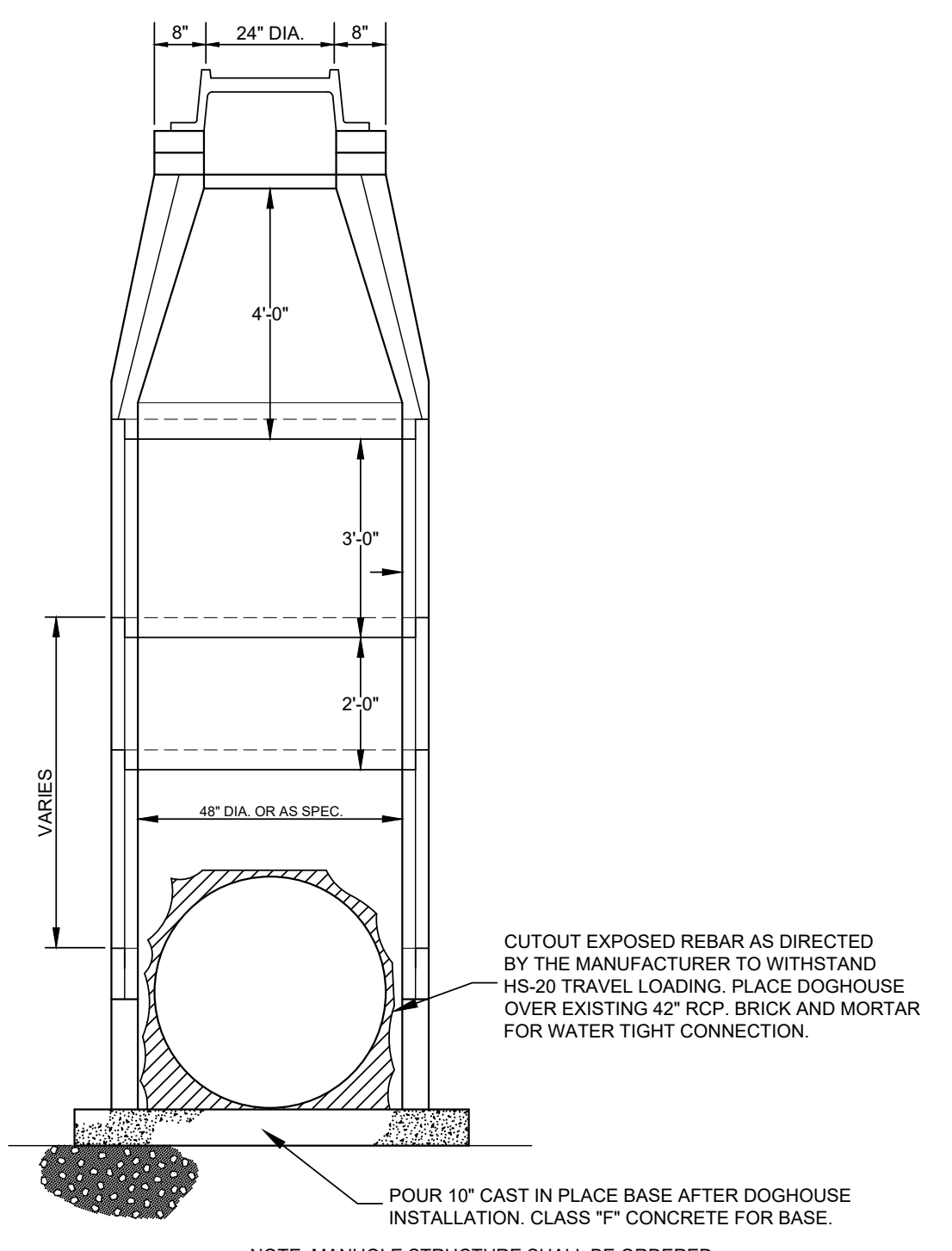


**PVC/RCP PIPE TRENCH BEDDING DETAIL (48\"/>N.T.S.**



**DOG HOUSE STORM MANHOLE DETAIL**  
N.T.S.

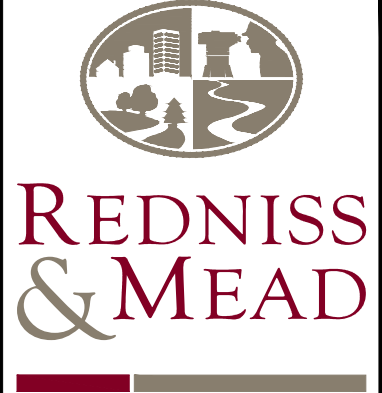
PLACE MANHOLE ON A 6" LAYER OF CRUSHED STONE. IF CRUSHED STONE IS TO BE PLACED ON FILL, ALL FILL BELOW THE MANHOLE SHALL BE COMPACTED TO 95% OF THE MAXIMUM PRD DENSITY AS PER ASTM D-1557. ALL CRUSHED STONE SHALL BE GRADATION NO. 4 AS PER CT DOT FORM 818, ARTICLE M.01.01. STONE SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES FREE FROM SOFT, THIN, ELONGATED, LAMINATED, FRIABLE, MICACEOUS OR DISINTEGRATED PIECES, MUD, DIRT OR OTHER DELETERIOUS MATERIAL.



NOTE: MANHOLE STRUCTURE SHALL BE ORDERED SUCH THAT THERE IS A MINIMUM OF 12" BETWEEN THE TOP OF THE STRUCTURE AND FINISHED GRADE.

No.	Date	Revision
1	02/03/2022	ISSUED FOR ZONING SUBMISSION

**DETAILS**  
 DEPICTING  
**0, 441, & 481 CANAL STREET**  
**AND 50 JOHN STREET**  
 STAMFORD, CT  
 PREPARED FOR  
**HEYMAN PROPERTIES, LLC.**



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