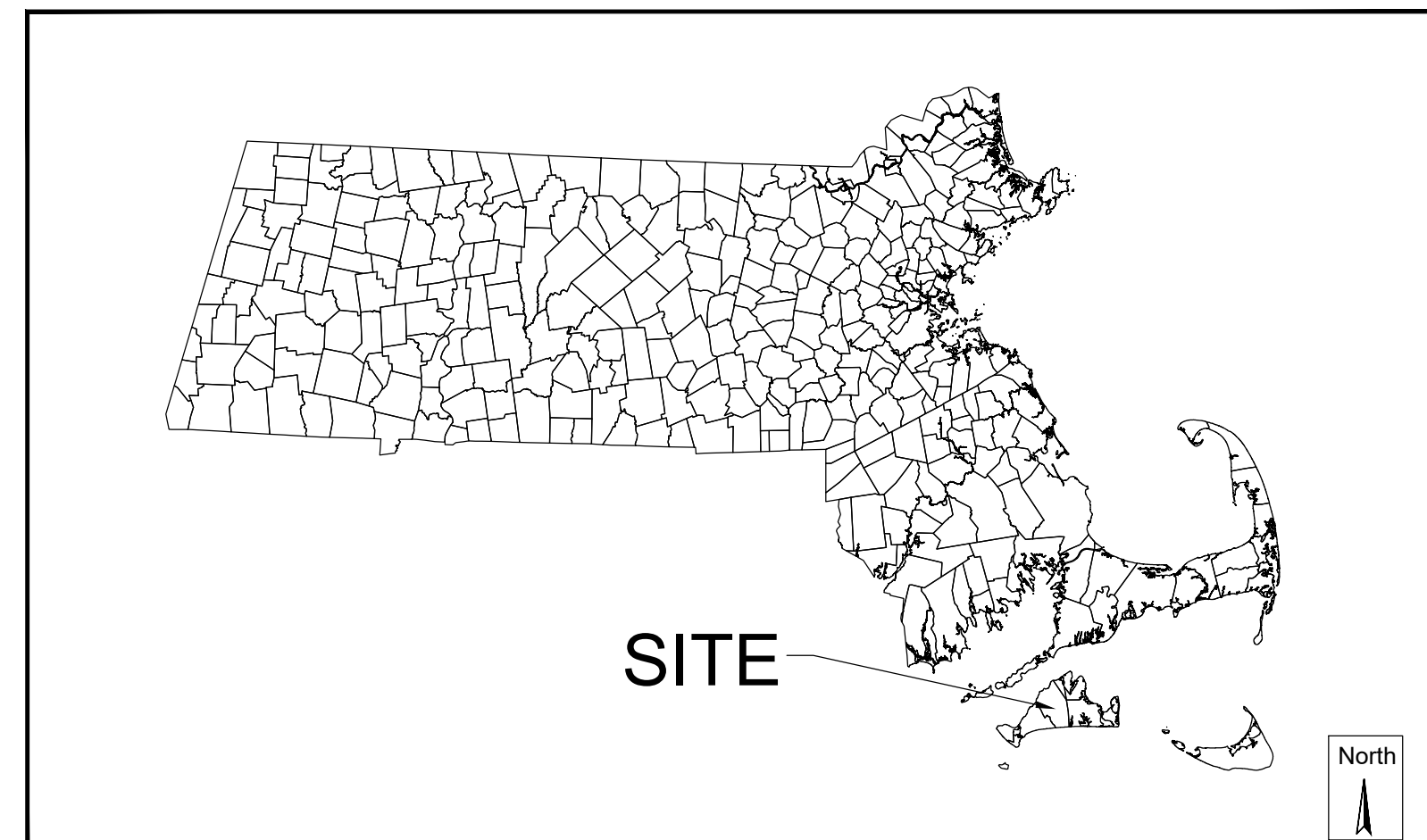


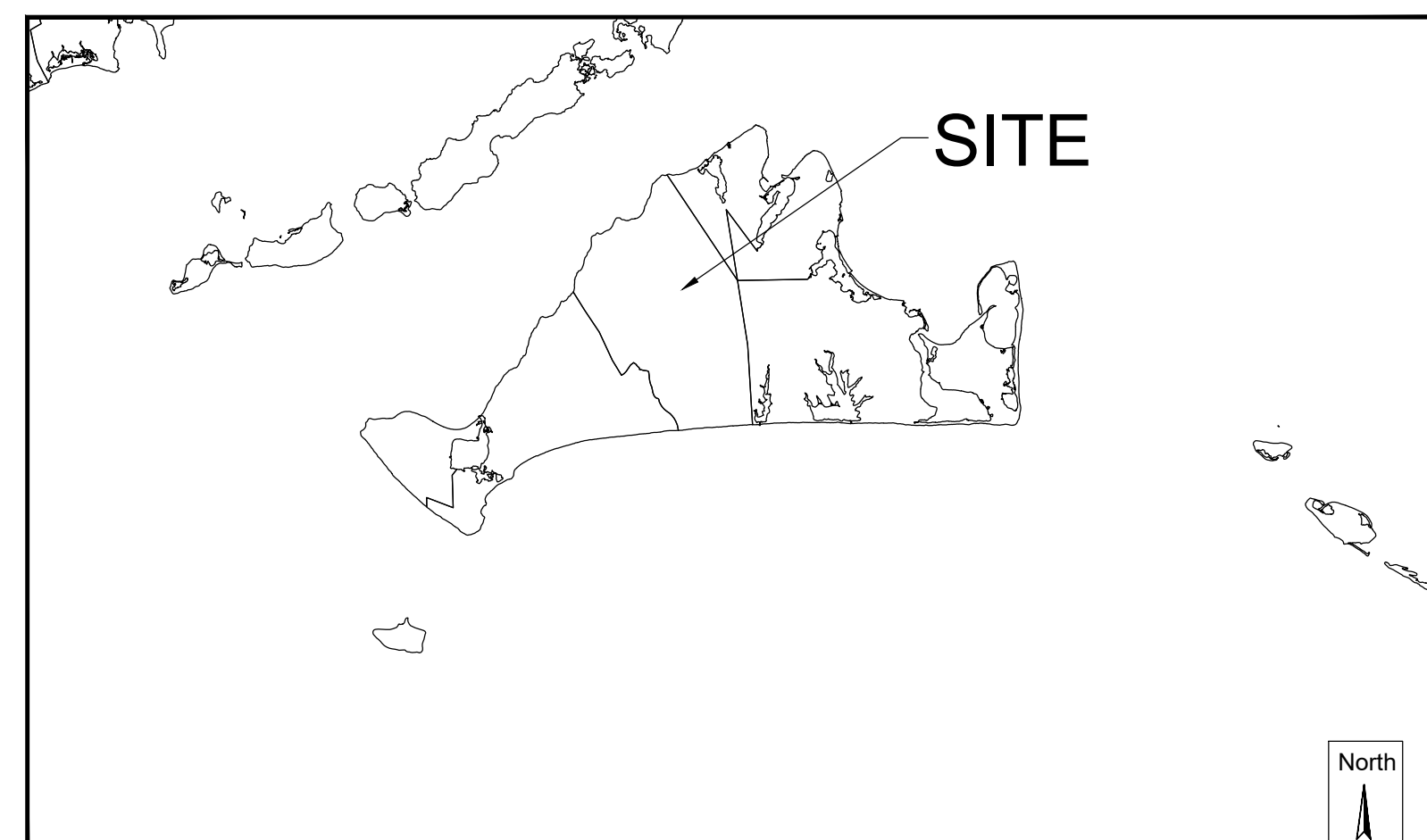
Exhibit B

# 401 STATE ROAD HOUSING DEVELOPMENT WEST TISBURY, MASSACHUSETTS DECEMBER 2023



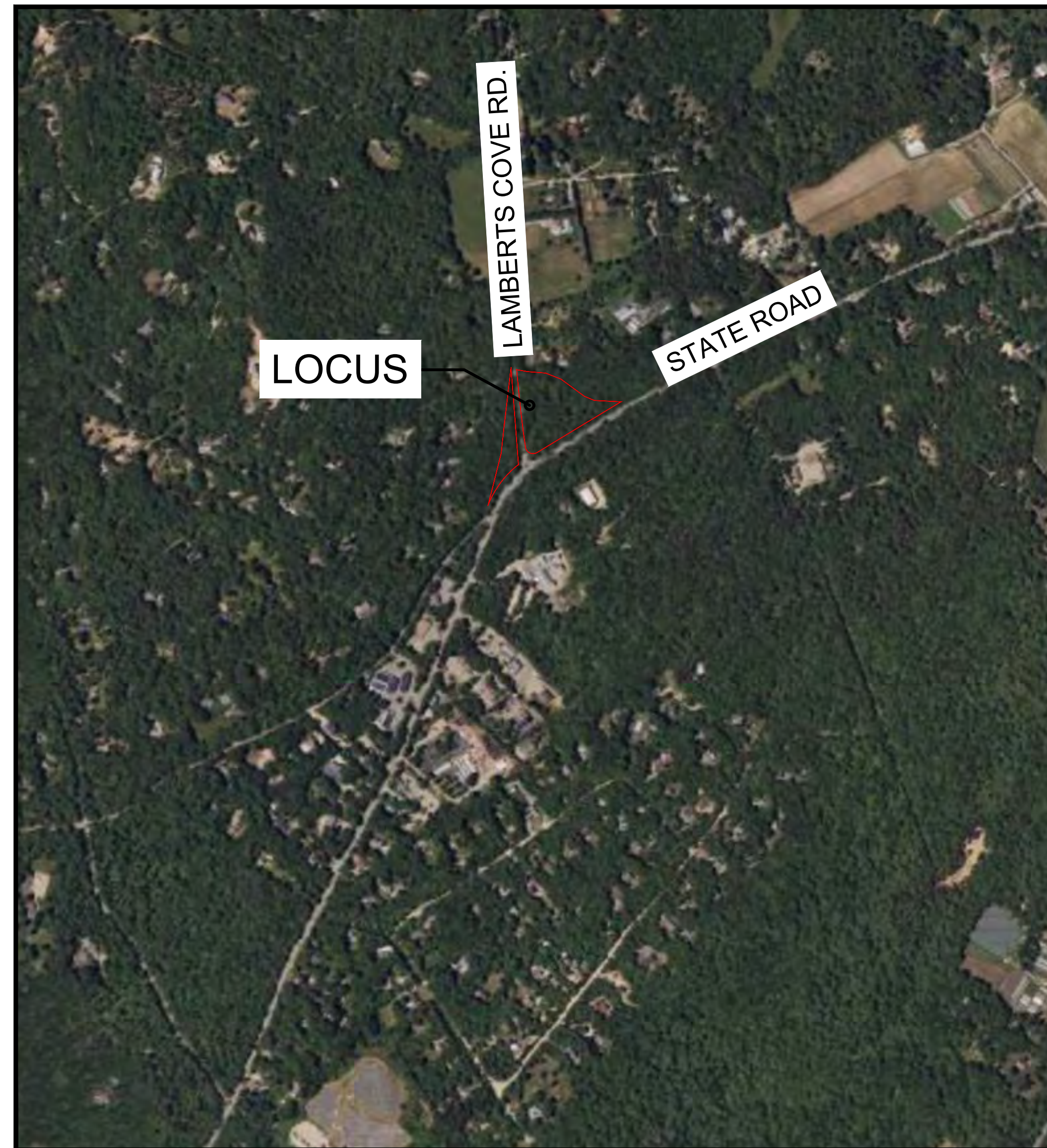
MASSACHUSETTS

Graphic Scale  
0 150000  
SCALE IN FEET  
1:150000



WEST TISBURY

Graphic Scale  
0 12000  
SCALE IN FEET  
1:12000



VICINITY MAP

Graphic Scale  
1-inch = 500-feet

| Sheet List Table |                                 |
|------------------|---------------------------------|
| Sheet Number     | Sheet Title                     |
| 1                | COVER                           |
| 2                | CONSTRUCTION NOTES              |
| 3                | EXISTING CONDITIONS PLAN        |
| 4                | EROSION & SEDIMENT CONTROL PLAN |
| 5                | SITE PLAN                       |
| 6                | GRADING PLAN                    |
| 7                | UTILITY PLAN                    |
| 8                | SITE DETAILS (1)                |
| 9                | SITE DETAILS(2)                 |
| 10               | STORMWATER DETAILS (1)          |
| 11               | STORMWATER DETAILS (2)          |

**GENERAL NOTES:**

SITE INFORMATION:  
MAP: 11  
LOT: 18  
OVERLAY ZONING DISTRICT: MAJOR ROADS DISTRICT  
WATERSHED: LAKE TASHMOO

|  |                                  |   |                                 |
|--|----------------------------------|---|---------------------------------|
| Plan Set:  |                                  | <b>401 STATE ROAD<br/>HOUSING DEVELOPMENT<br/>WEST TISBURY, MASSACHUSETTS</b>   |                                 |
| Prepared For:  |                                  | Island Housing Trust<br>P.O. Box 779<br>West Tisbury, MA 02575<br>----  |                                 |
| Prepared By:   |                                  | <b>Horsley Witten Group, Inc.</b><br><i>Sustainable Environmental Solutions</i><br><a href="http://www.horsleywitten.com">www.horsleywitten.com</a> |                                 |
| Headquarters<br>90 Route 6A<br>Sandwich, MA 02563<br>(508) 833-6600 voice<br>(508) 833-3150 fax      |                                  | 112 Water Street 6th Floor<br>Boston, MA 02109<br>(857) 263-8193 voice<br>(617) 574-4799 fax  |                                 |
| One Turks Head Place Suite 300<br>Providence, RI 02906<br>(401) 272-1717 voice<br>(401) 439-8368 fax |                                  | 113 R2 Water Street<br>Exeter, NH 03833<br>(603) 658-1660 voice   |                                 |
| Date Issued:<br>DECEMBER 2023  | Registration:                    | Revisions   | Project Number:<br>23063        |
| Designed By:<br>---  | DRAFT<br>NOT FOR<br>CONSTRUCTION | Sheet Number:<br>1 of 11  | Drawing Number:<br><b>C - 1</b> |
| Drawn By:<br>---   |                                  |   |                                 |
| Checked By:<br>---   |                                  |   |                                 |
| Rev.   | Date                             | By  | Appr. Description               |

PROJECT PARTNERS:



CIVIL ENGINEER :



ARCHITECT:



NOT FOR CONSTRUCTION

GENERAL CONSTRUCTION NOTES:

- 1. ALL SITE WORK TO COMPLETE THIS PROJECT AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. IMMEDIATELY CONTACT AND COORDINATE WITH THE ENGINEER AND OWNER IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED.
3. UTILIZE ALL PRECAUTIONS AND MEASURES TO ENSURE THE SAFETY OF THE PUBLIC, ALL PERSONNEL AND PROPERTY DURING CONSTRUCTION IN ACCORDANCE WITH OSHA STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY FENCING BARRICADES, SAFETY LIGHTING, CONES, POLICE DETAIL AND/OR FLAGMEN AS DETERMINED NECESSARY BY THE TOWN/CITY/LOCAL MUNICIPALITY. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF POLICE DETAIL AND FOR COORDINATING WITH THE LOCAL OR STATE POLICE DEPARTMENT FOR ALL REQUIRED POLICE DETAIL.

BASIC CONSTRUCTION SEQUENCE:

- 1. SURVEY AND STAKE THE PROPOSED LIMIT OF DISTURBANCE AND LIMIT OF SEDIMENTATION BARRIERS.
2. PLACE SEDIMENTATION BARRIERS AS INDICATED ON DRAWINGS AND STAKED OUT IN THE FIELD. UNDER NO CIRCUMSTANCES IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS/LIMIT OF DISTURBANCE AS INDICATED ON DRAWINGS AS APPROVED BY THE LOCAL CONSERVATION COMMISSION AND DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP).
3. INSTALL TEMPORARY CONSTRUCTION ENTRANCES IN LOCATIONS INDICATED ON DRAWINGS. NO OTHER ENTRANCES ARE TO BE USED TO GAIN ACCESS TO THE SITE BY ANY CONSTRUCTION OR DELIVERY VEHICLES.

GENERAL GRADING AND DRAINAGE NOTES:

- 1. ALL CUT AND FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
2. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
3. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
4. ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

DEWATERING:

- 1. A HIGH WATER TABLE IS NOT ANTICIPATED. HOWEVER, IF DEWATERING IS REQUIRED DURING EXCAVATION, TEMPORARILY LOWER THE WATER TABLE (PER SPECIFICATIONS OR) BY PUMPING. INSTALL A DEWATERING BASIN AS INDICATED IN THE DEWATERING BASIN DETAIL AND PROVIDE A DEWATERING PLAN DEPICTING PROPOSED DEWATERING LOCATION FOR REVIEW AND APPROVAL. DIRECT THE PUMP DISCHARGE TO BASIN TO PREVENT SEDIMENTS FROM LEAVING THE CONSTRUCTION AREA. INSTALL ADDITIONAL BASINS IF REQUIRED. INSTALL THE BASIN AS INDICATED ON DRAWINGS IF SO NOTED, OTHERWISE INSTALL THE BASIN(S) WITHIN THE LIMIT OF DISTURBANCE INDICATED BY THE SILT FENCE OR STRAWBALES.

STORMWATER FACILITY OPERATION & MAINTENANCE:

- 1. INSPECT AND RESTORE/CLEAN ALL FACILITIES (INLETS, MANHOLES, INFILTRATION BASINS, STORMWATER MANAGEMENT AREAS AS DESCRIBED BELOW OF SEDIMENT AND DEBRIS PRIOR TO THE OWNER'S ACCEPTANCE.
2. REMOVE AND DISPOSE ALL SEDIMENT AND DEBRIS TO A PRE-APPROVED LOCATION.
3. REFER TO THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR ADDITIONAL INFORMATION PERTAINING TO STORMWATER FACILITY OPERATION AND MAINTENANCE REQUIREMENTS. MAINTAIN A WORKING COPY OF THE SWPPP ON SITE AT ALL TIMES.

LEGEND:

Legend table with columns for GENERAL, PROPERTY INFORMATION, UTILITIES, EROSION & SEDIMENT CONTROL, and ENVIRONMENTAL. Includes symbols for berm, building, centerline, curb, drainage structures, rip-rap, sediment forebay, infiltration basin, bioretention systems, routine maintenance, wetland boundary, and various utility lines.

SOIL TEST PIT DATA

PERFORMED BY: M. GUERZON, HORSLEY WITTEN GROUP, INC
DATE: SEPTEMBER 7, 2023

Table with 7 columns (TP-1 to TP-7) and 4 rows of soil test data. Each cell contains soil type (e.g., 10YR 4/2 SANDY LOAM), depth (e.g., 0", 8", 24"), and other test parameters like SHWT and SEEPAGE.

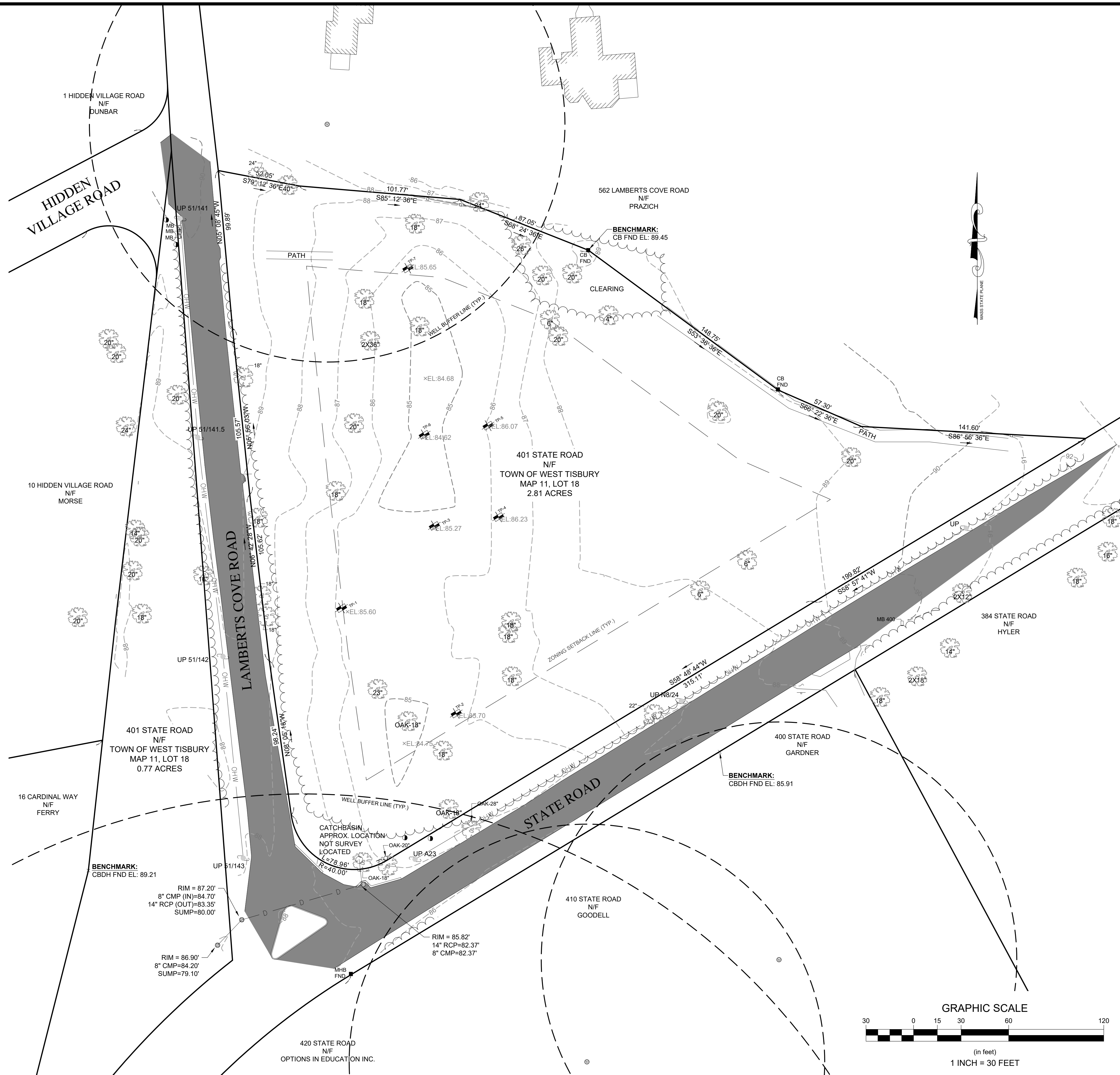
Project information sidebar including: Revisions table, Project Name (401 STATE ROAD HOUSING DEVELOPMENT), Map (MAP 11, LOT 18 WEST TISBURY, MASSACHUSETTS), Client (Island Housing Trust), Survey Provider (Horsley Witten Group, Inc.), and Registration details.

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last modified: 12/07/23 printed: 12/07/23 by jk H:\Projects\2023\23063 State Road Housing West Tisbury\Drawings\23063 EX.dwg

**SURVEY NOTES**

1. THE TOPOGRAPHY AND EXISTING SITE CONDITIONS DEPICTED HEREON ARE THE RESULT OF AN ON THE GROUND FIELD SURVEY CONDUCTED BY THE HORSLEY WITTEN GROUP, INC. JULY 12, 2023.
2. HORIZONTAL DATUM IS MASS STATE PLANE COORDINATE SYSTEM. DATUM ESTABLISHED BY RTK GPS.
3. THE ELEVATIONS DEPICTED HEREON WERE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
4. THE PROPERTY LINES AND RIGHTS OF WAYS DEPICTED HAVE BEEN ESTABLISHED BY FIELD SURVEY AND DEEDS AND PLANS OF RECORD.
5. THE ACCURACY OF MEASURED PIPE INVERTS AND PIPE SIZES IS SUBJECT TO FIELD CONDITIONS, THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS AND OTHER CONDITIONS.
6. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE TOWN OF WEST TISBURY, AND "DIGSAFE" (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
7. UTILITY PROVIDERS: ELECTRIC - EVERSOURCE TELEPHONE - VERIZON CABLE - COMCAST
8. WELLS ON 562 LAMBERTS COVE, 410 STATE RD. & 420 STATE RD. SCALED FROM PLANS PROVIDED BY WETS TISBURY BOARD OF HEALTH.
9. THE PROPERTY IS LOCATED WITHIN F.I.R.M ZONE X AS SHOWN ON COMMUNITY PANEL NO. 25007C0091J DATED JULY 20, 2016.
10. REFERENCE PLANS: DUKES COUNTY REGISTRY OF DEEDS  
PLAN BOOK 279 PAGE 530  
CASE FILE W-71  
CASE FILE W-477



| Revisions | Date | By | Appr. | Description |
|-----------|------|----|-------|-------------|
|           |      |    |       |             |
|           |      |    |       |             |
|           |      |    |       |             |
|           |      |    |       |             |

**Horsley Witten Group, Inc.**  
Sustainable Environmental Solutions  
By: [Signature]  
80 Route 6A  
Sandwich, MA 02563  
508-833-6600 voice  
508-833-3150 fax

Checked By: [Signature]  
Drawn By: [Signature]  
Designed By: [Signature]  
Date: August 10, 2023

Plan Set:  
**401 STATE ROAD HOUSING DEVELOPMENT**  
MAP 11, LOT 18  
WEST TISBURY, MASSACHUSETTS

Plan Title:  
**EXISTING CONDITIONS PLAN**

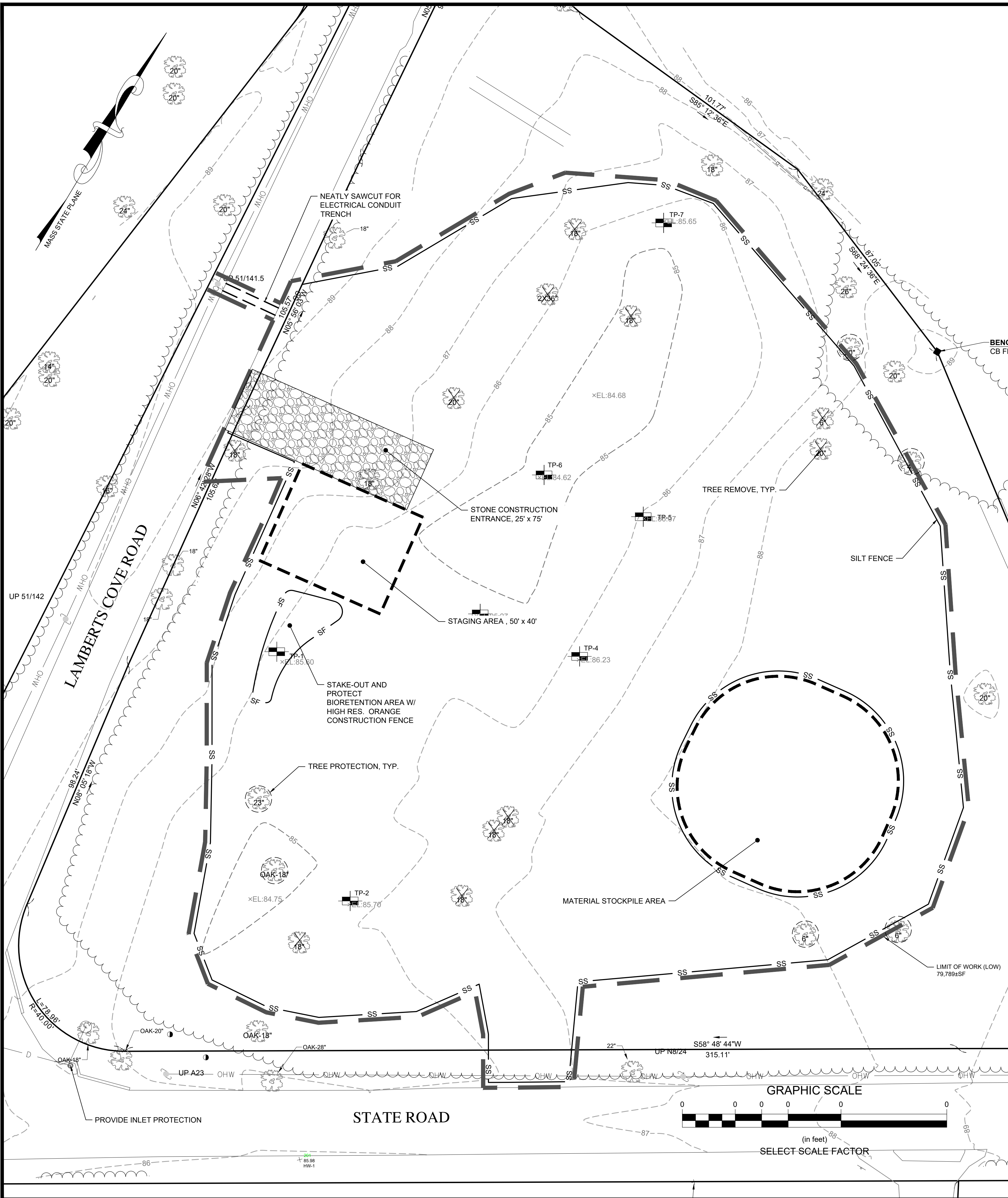
Prepared For:  
**Island Housing Trust**  
PO Box 779  
West Tisbury, MA 02575

Survey Provided By:  
**Horsley Witten Group**  
90 Route 6A  
Sandwich, MA 02562  
508 833 6600



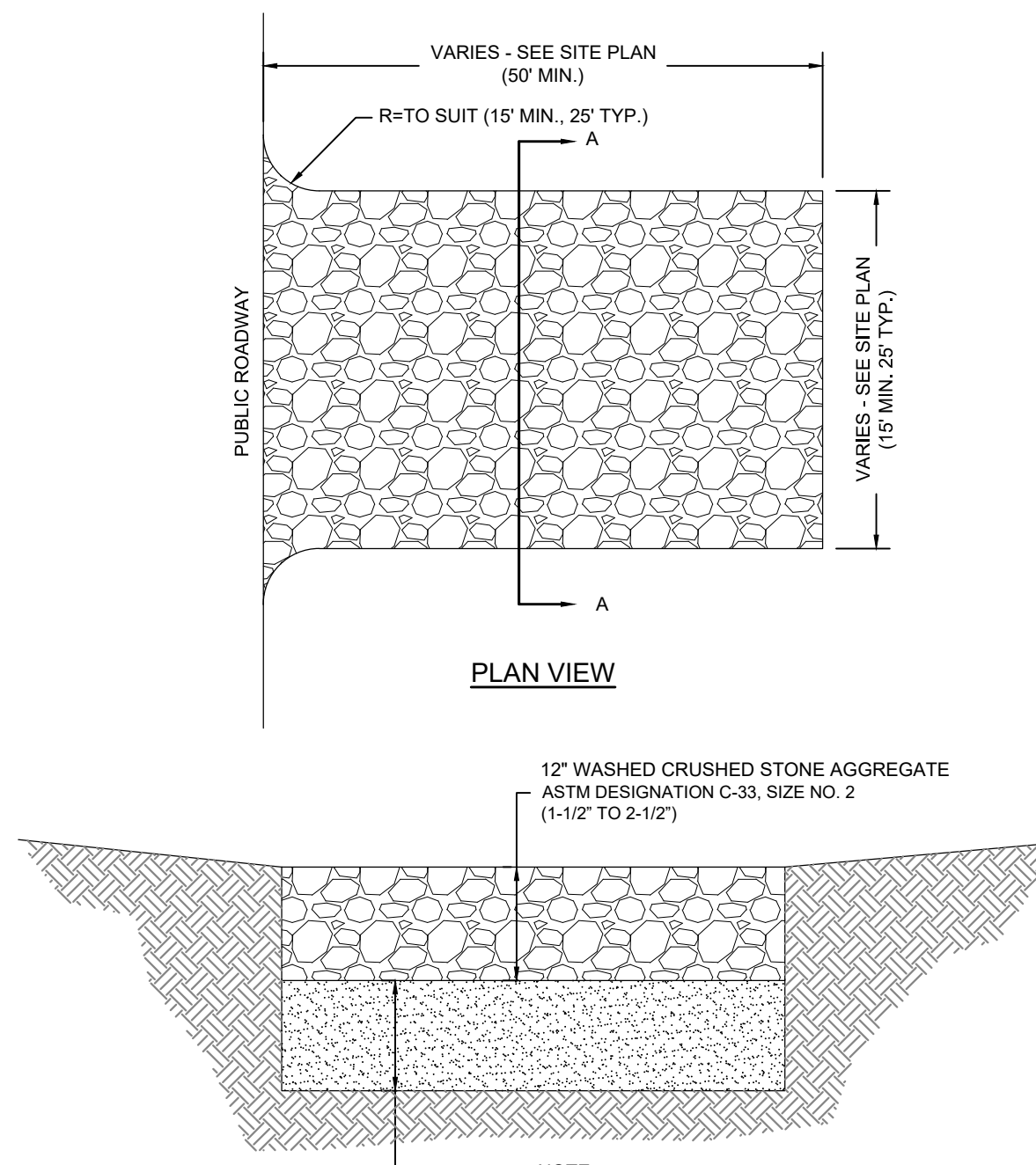
Project Number: 23063  
Sheet: 1 of 11  
Sheet Number: EX - 1

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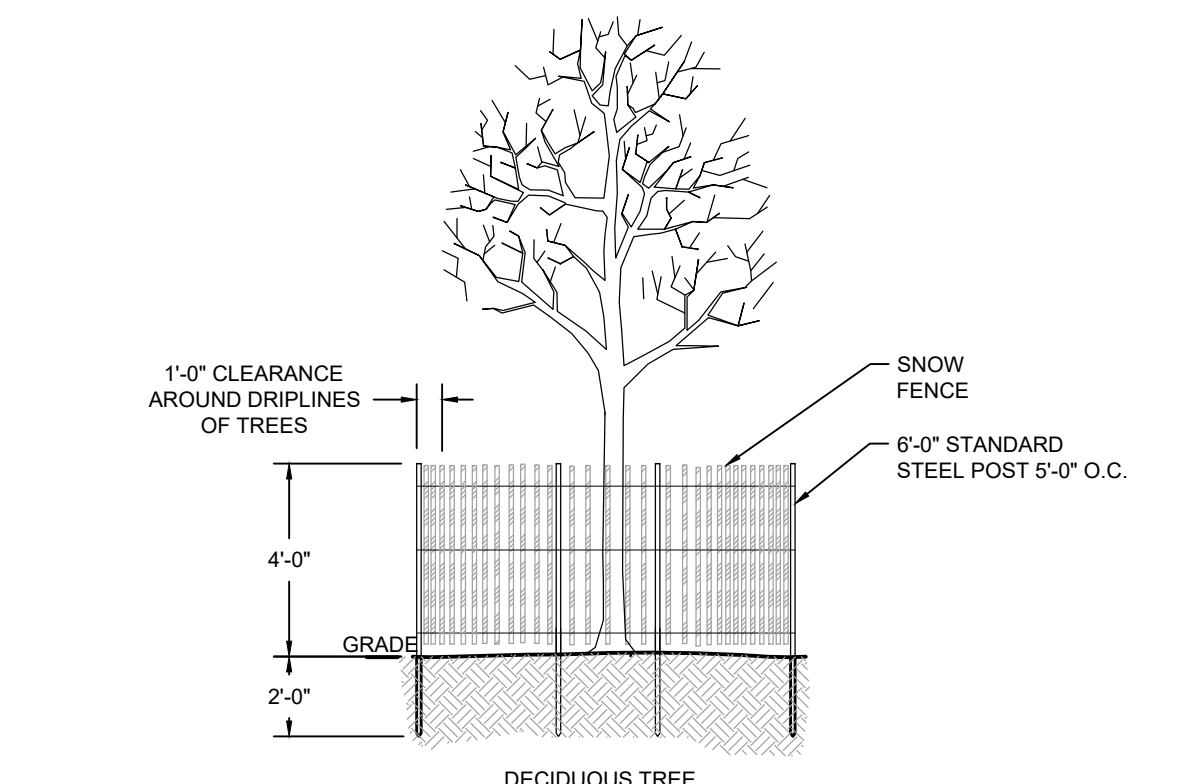
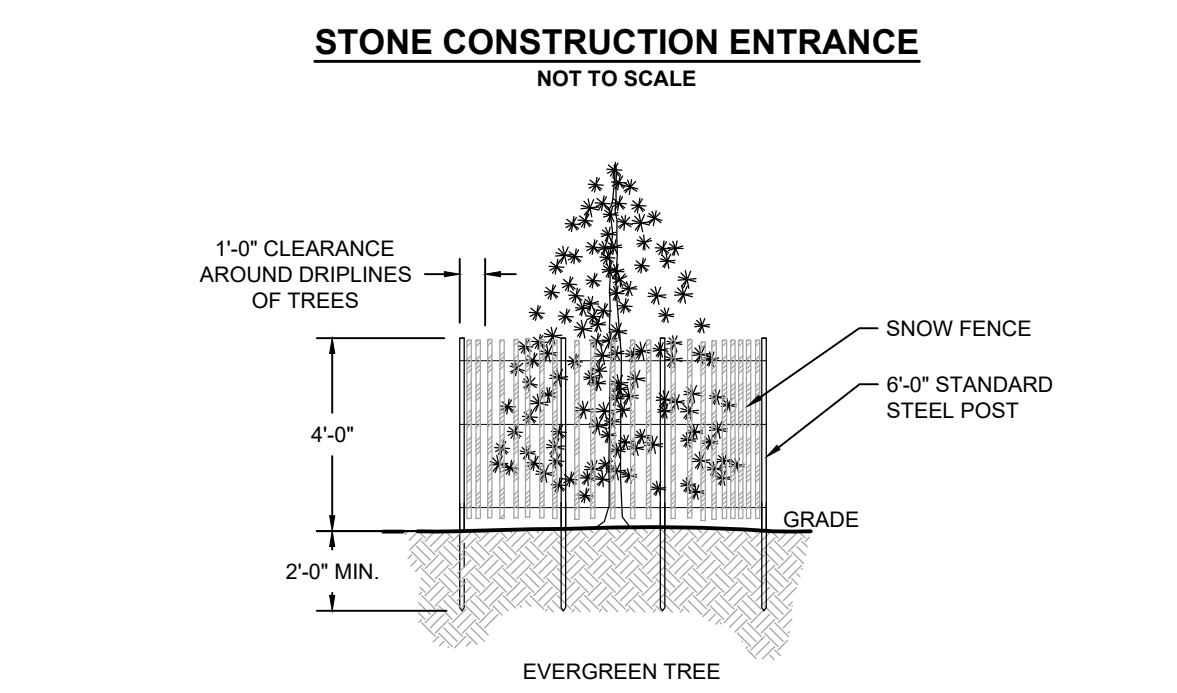
**EROSION & SEDIMENT CONTROL NOTES:**

- PRIOR TO THE START OF CONSTRUCTION A NOTICE OF INTENT (NOI) MUST BE FILED WITH NPDES. REFER TO THE STORMWATER AND POLLUTION PREVENTION PLAN (SWPPP) REGARDING ALL EROSION CONTROL MATTERS. MAINTAIN A WORKING COPY OF THE SWPPP ON-SITE AT ALL TIMES. FOLLOW THE SWPPP PROTOCOL FOR SITE MAINTENANCE, INSPECTIONS AND PROPER DOCUMENTATION UNTIL THE SITE HAS BEEN ACCEPTED BY THE OWNER. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR OR OWNER MUST FILE A NOTICE OF TERMINATION WITH NPDES. IN ACCORDANCE WITH NPDES REGULATIONS, THE COMPLETED SWPPP MUST INCLUDE ALL OF THE SITE EROSION CONTROL DOCUMENTATION, WEEKLY EROSION INSPECTION REPORTS COMPLETED BY THE DESIGNATED SITE PERSONNEL, AND ANY OTHER PERTINENT SITE DOCUMENTATION MUST BE RETAINED FOR A MINIMUM OF 3 YEARS FROM THE DATE OF TERMINATION.
- DESIGNATE THE SITE CONSTRUCTION FOREMAN AS THE ON-SITE PERSONNEL RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS AND IMPLEMENTATION OF ALL NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.
- INSTALL ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES AS INDICATED ON DRAWINGS IN CONSULTATION WITH THE CONSERVATION AGENT, AND ENGINEER BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN. INSPECT, MAINTAIN AND REPLACE EROSION CONTROL MEASURES, AS NECESSARY, DURING THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. THE SITE PERIMETER EROSION CONTROLS ARE THE DESIGNATED LIMIT OF WORK. INFORM ALL PERSONNEL WORKING ON THE PROJECT SITE THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
- MAINTAIN A MINIMUM SURPLUS OF 100 FEET OF EROSION CONTROL BARRIER (SILT FENCE, STRAWBALE, &/OR SILT SOCK) ON-SITE AT ALL TIMES.
- PROVIDE CONSTRUCTION EXITS AS INDICATED ON DRAWINGS TO SHED DIRT FROM CONSTRUCTION VEHICLE TIRES. CLEAN AND/OR REPLACE THE CRUSHED STONE PAD, AS NECESSARY, TO MAINTAIN ITS EFFECTIVENESS.
- KEEP THE LIMIT OF CLEARING, GRADING AND DISTURBANCES TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. PHASE THE SITE WORK IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL. IF TREES ARE TO BE CUT ON THE ENTIRE SITE, CLEAR AND GRUB ONLY THOSE AREAS WHICH ARE ACTIVELY UNDER CONSTRUCTION. PROPERLY INSTALL THE SEDIMENTATION CONTROLS PRIOR TO BEGINNING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK.
- MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTH-MOVING OR OTHER CONSTRUCTION ACTIVITIES WHICH LEAVE LARGE DISTURBED AREAS UNSTABILIZED. IF INCLEMENT WEATHER IS PREDICTED, USE BEST PROFESSIONAL JUDGMENT AND GOOD CONSTRUCTION PRACTICES WHEN SCHEDULING CONSTRUCTION ACTIVITIES AND ENSURE THE NECESSARY EROSION CONTROL DEVICES ARE INSTALLED AND FUNCTIONING PROPERLY TO MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.
- INSPECT EROSION AND SEDIMENT CONTROL DEVICES AND STABILIZED SLOPES ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT OF .25 INCH OR GREATER. REPAIR IDENTIFIED PROBLEMS WITHIN 24 HOURS TO ENSURE EROSION AND SEDIMENT CONTROLS ARE IN GOOD WORKING ORDER. RESET OR REPLACE MATERIALS AS REQUIRED.
- SURROUND THE PERIMETER OF SOIL STOCKPILES WITH SILT SOCK, SILT FENCE, STRAWBALES, OR A COMBINATION OF SILT FENCE WITH STRAWBALE, AS DETERMINED NECESSARY.
- DISTURBED AREAS AND SLOPES MUST NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. REINFORCE TEMPORARY AREAS HAVING A SLOPE GREATER THAN 4:1 WITH EROSION BLANKETS OR APPROVED EQUIVALENT. THE SITE IS PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY THE ENGINEER.
- SMALL SEDIMENTATION BASINS MAY BE CONSTRUCTED ON AN AS-NEEDED BASIS DURING CONSTRUCTION TO AID IN THE CAPTURE OF SITE RUNOFF AND SEDIMENT. IT WILL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR, IN CONSULTATION WITH THE ENGINEER, TO SIZE AND CREATE THESE BASINS IN APPROPRIATE LOCATIONS.
- CONTAIN ALL SEDIMENT ON-SITE. SWEEP ALL EXITS FROM THE SITE AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. SWEEP PAVED AREAS AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS ACCUMULATED DURING SITE CONSTRUCTION.
- REMOVE ACCUMULATED SEDIMENT FROM ALL TEMPORARY PRACTICES AND DISPOSE OF IN A PRE-APPROVED LOCATION.
- PROVIDE ON-SITE OR MAKE READILY AVAILABLE THE NECESSARY EQUIPMENT AND SITE PERSONNEL DURING CONSTRUCTION HOURS FOR THE DURATION OF THE PROJECT TO ENSURE ALL EROSION AND SEDIMENTATION CONTROL DEVICES PROPERLY MAINTAINED AND REPAIRED IN A TIMELY AND RESPONSIBLE MANNER. IF SITE WORK IS SUSPENDED DURING THE WINTER MONTHS THE CONTRACTOR MUST CONTINUE TO PROVIDE PERSONNEL AND EQUIPMENT EITHER ON-SITE OR READILY AVAILABLE TO PROPERLY MAINTAIN AND REPAIR ALL EROSION AND SEDIMENTATION CONTROL DEVICES IN A TIMELY AND RESPONSIBLE MANNER.
- PRIOR TO THE INSTALLATION OF FILTER FABRIC AND MEDIA WITHIN THE BIORETENTION AREAS, REMOVE AND PROPERLY DISPOSE OF SEDIMENT ACCUMULATED IN ANY PARTIALLY CONSTRUCTED OR TEMPORARY BIORETENTION/DRAINAGE AREA USED FOR SEDIMENT CONTROL DURING CONSTRUCTION. PROVIDE A SURFACE ELEVATION AT A MINIMUM 1-FOOT ABOVE THE BOTTOM OF MEDIA ELEVATION AS SHOWN IN THE BIORETENTION SCHEDULE FOR PARTIALLY CONSTRUCTED BIORETENTION AREAS. THIS ALLOWS FOR AN OVERLAP OF THE COLLECTED SEDIMENT FROM WITHIN THE BIORETENTION AREA PRIOR TO MEDIA/FABRIC INSTALLATION.
- CONTROL DUST BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE DURING CONSTRUCTION OF ALL STORMWATER FACILITIES INSTALLED OR AFFECTED BY THE PROJECT. REMOVE SEDIMENT OR DEBRIS COLLECTED WITHIN THESE FACILITIES FROM THE PROJECT WORK PRIOR TO THE OWNER'S ACCEPTANCE.

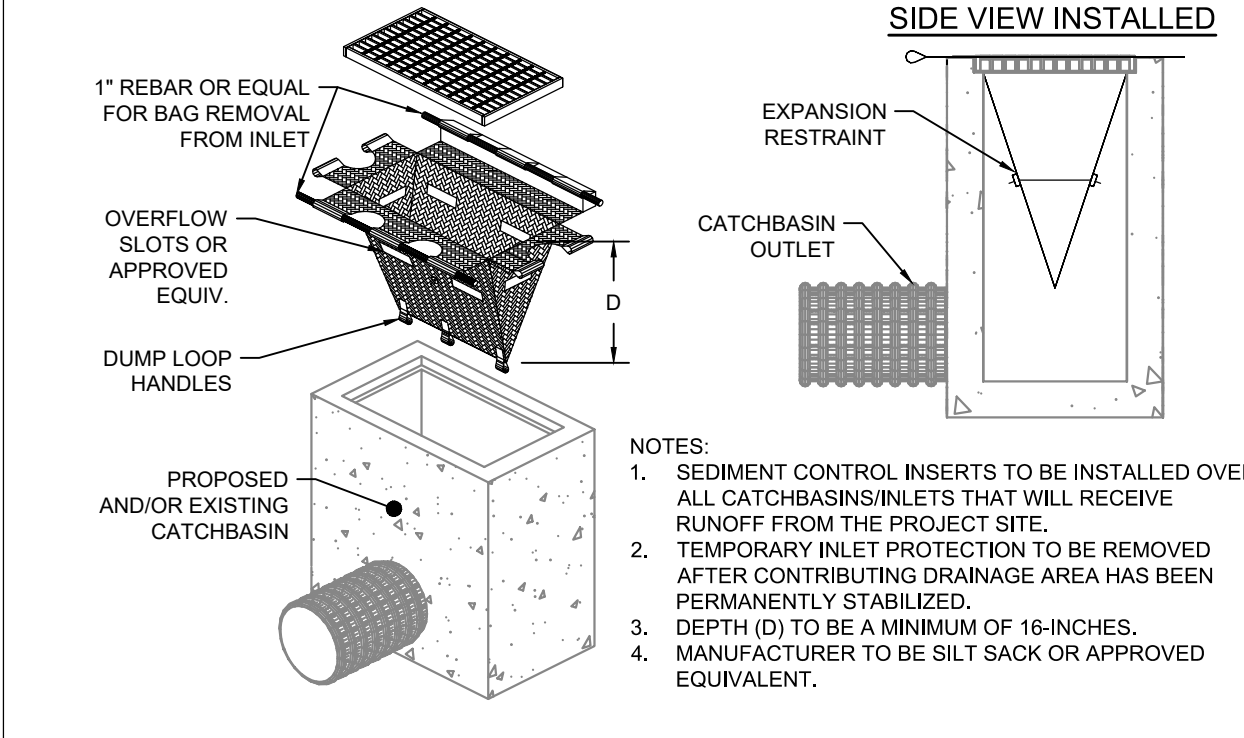


**STONE CONSTRUCTION ENTRANCE**  
NOT TO SCALE

NOTE:  
1. ROCK ENTRANCE(S) TO REMAIN UNTIL INSTALLATION OF PAVEMENT SUB-BASE IS TO BEGIN.  
2. SEE SITE PLAN FOR LOCATION & ACTUAL DIMENSIONS

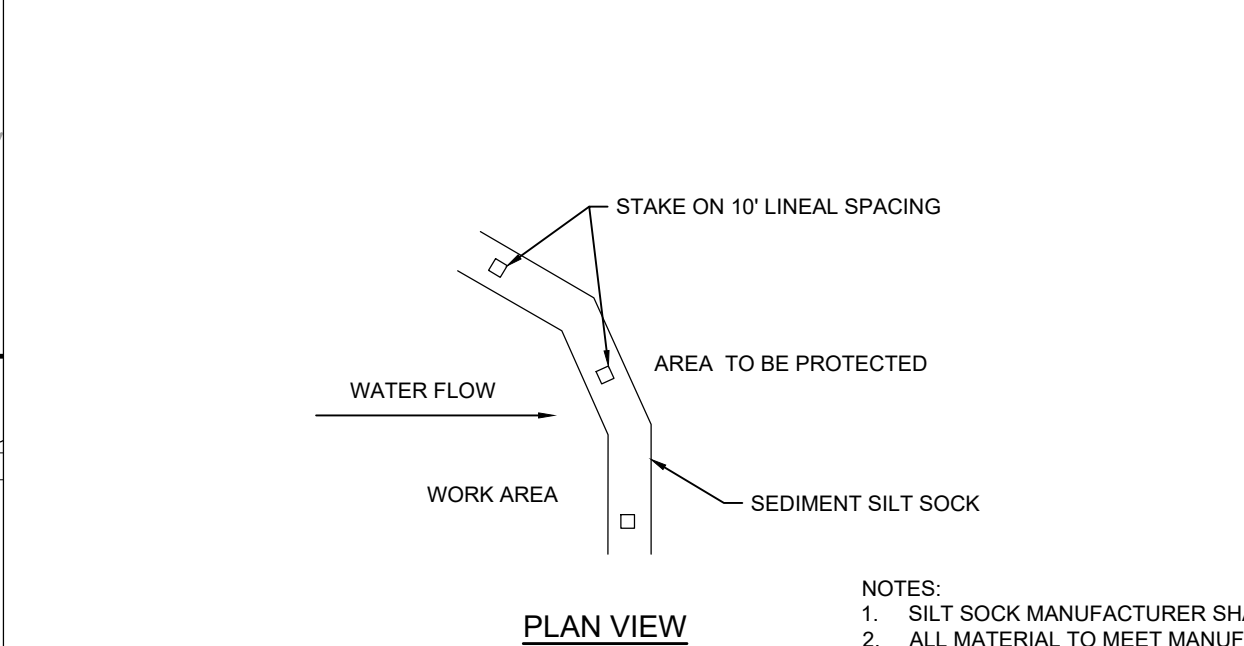


- TREE PROTECTION**  
NOT TO SCALE
- NOTES:  
1. FENCING SHALL BE ORANGE RESINET SM60 BARRIER FENCE 'SNOW FENCE' OR APPROVED EQUIVALENT.  
2. POST SHALL BE HOT ROLLED RAIL STEEL AND FORMED INTO A 'T'. DIMENSIONS OF 'T' POST SECTION, APPROXIMATELY 1 7/16\"/>



**TEMPORARY CATCHBASIN INSERT WITH INLET PROTECTION**  
NOT TO SCALE

NOTES:  
1. SEDIMENT CONTROL INSERTS TO BE INSTALLED OVER ALL CATCHBASIN/INLETS THAT WILL RECEIVE RUNOFF FROM THE PROJECT SITE.  
2. TEMPORARY INLET PROTECTION TO BE REMOVED AFTER CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.  
3. DEPTH (D) TO BE A MINIMUM OF 16-INCHES.  
4. MANUFACTURER TO BE SILT SOCK OR APPROVED EQUIVALENT.



**SEDIMENT SILT SOCK**  
NOT TO SCALE

NOTES:  
1. SILT SOCK MANUFACTURER SHALL BE SILT SOCKX OR ENGINEER APPROVED EQUIVALENT.  
2. ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.  
3. SEDIMENT SILT SOCK TO BE FILLED WITH COMPOST AND/OR WOODY MULCH PER MANUFACTURER'S REQUIREMENTS.  
4. FOLLOWING CONSTRUCTION AND SITE STABILIZATION COMPOST MATERIAL SHALL BE REMOVED OR DISPERSED ON SITE, AS APPROVED BY THE ENGINEER.

**Revisions**

| Rev | Date | By | Appr | Description |
|-----|------|----|------|-------------|
|     |      |    |      |             |
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|     |      |    |      |             |

**Horsley Witten Group, Inc.**  
Sustainable Environmental Solutions  
hws@hwsgr.com  
90 Route 6A  
Sandwich, MA 02563  
508-833-6600 voice  
508-833-3150 fax

Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Designed By: \_\_\_\_\_  
Date: DECEMBER 2023

401 STATE ROAD  
HOUSING DEVELOPMENT  
MAP 11, LOT 18  
WEST TISBURY, MASSACHUSETTS

Plan Title:  
**EROSION & SEDIMENT CONTROL PLAN**

Prepared For:  
**Island Housing Trust**  
P.O. Box 779  
West Tisbury, MA 02575  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_

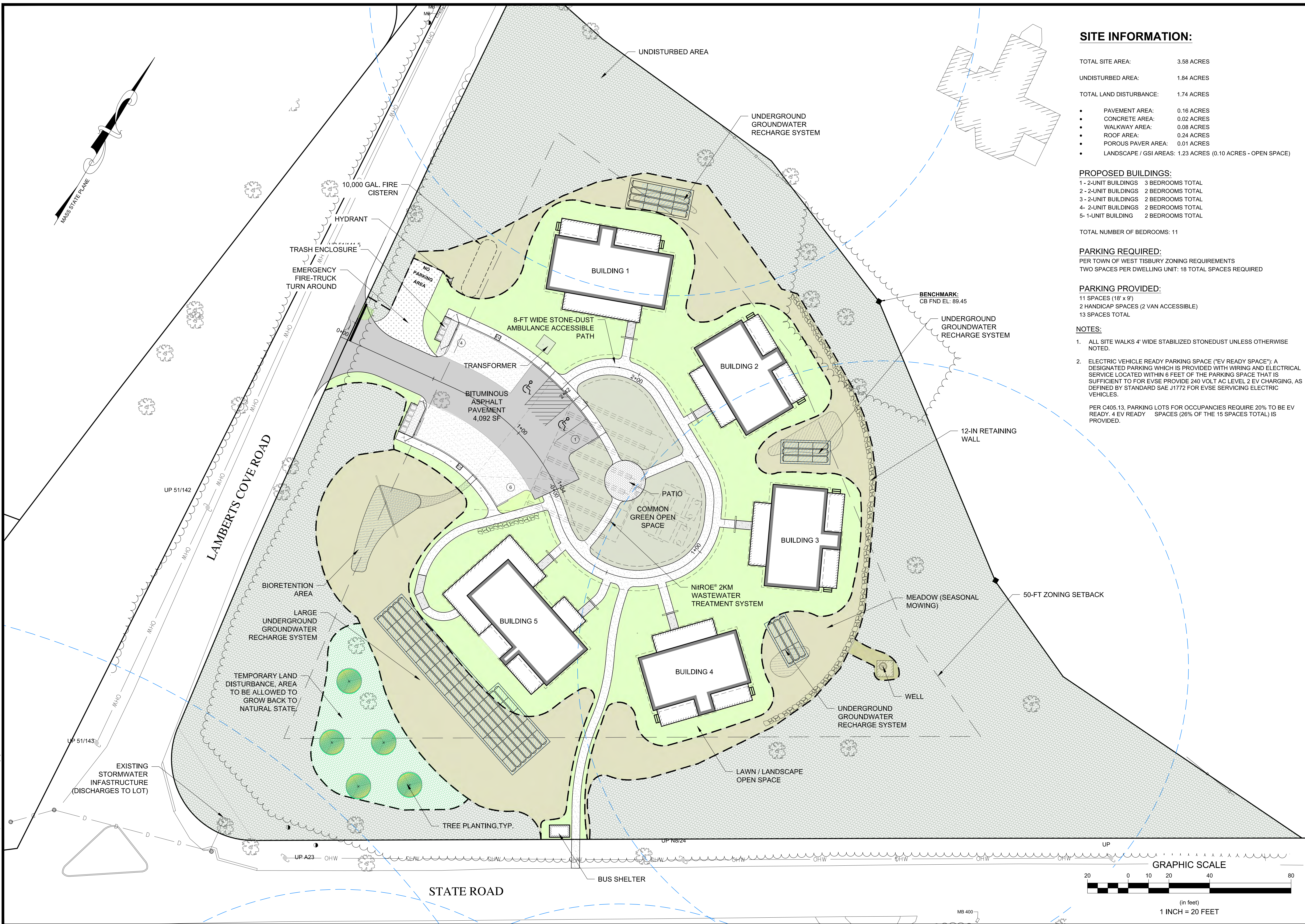
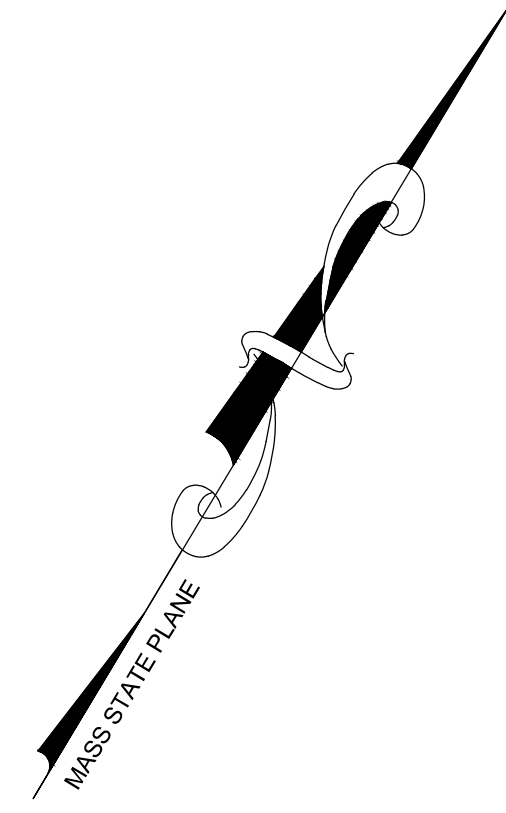
Survey Provided By:  
**Horsley Witten Group, Inc.**  
90 Route 6A, Unit 1  
Sandwich, MA 02563  
Phone: (508) 833-6600  
Fax: (508) 833-3150  
Dated: JUNE 2023

Registration:

**DRAFT**  
**NOT FOR CONSTRUCTION**

Project Number: 23063 Sheet: 4 of 11  
Sheet Number: C-4

last modified: 12/07/23 printed: 12/12/23 by jk H:\Projects\2023\23063 State Road Housing West Tisbury\Drawings\23063 ST.dwg



**SITE INFORMATION:**

- TOTAL SITE AREA: 3.58 ACRES
- UNDISTURBED AREA: 1.84 ACRES
- TOTAL LAND DISTURBANCE: 1.74 ACRES
- PAVEMENT AREA: 0.16 ACRES
- CONCRETE AREA: 0.02 ACRES
- WALKWAY AREA: 0.08 ACRES
- ROOF AREA: 0.24 ACRES
- POROUS PAVER AREA: 0.01 ACRES
- LANDSCAPE / GSI AREAS: 1.23 ACRES (0.10 ACRES - OPEN SPACE)

- PROPOSED BUILDINGS:**
- 1 - 2-UNIT BUILDINGS 3 BEDROOMS TOTAL
  - 2 - 2-UNIT BUILDINGS 2 BEDROOMS TOTAL
  - 3 - 2-UNIT BUILDINGS 2 BEDROOMS TOTAL
  - 4 - 2-UNIT BUILDINGS 2 BEDROOMS TOTAL
  - 5 - 1-UNIT BUILDING 2 BEDROOMS TOTAL

TOTAL NUMBER OF BEDROOMS: 11

**PARKING REQUIRED:**  
 PER TOWN OF WEST TISBURY ZONING REQUIREMENTS  
 TWO SPACES PER DWELLING UNIT: 18 TOTAL SPACES REQUIRED

**PARKING PROVIDED:**  
 11 SPACES (18' x 9')  
 2 HANDICAP SPACES (2 VAN ACCESSIBLE)  
 13 SPACES TOTAL

- NOTES:**
- ALL SITE WALKS 4' WIDE STABILIZED STONEDUST UNLESS OTHERWISE NOTED.
  - ELECTRIC VEHICLE READY PARKING SPACE ("EV READY SPACE"): A DESIGNATED PARKING WHICH IS PROVIDED WITH WIRING AND ELECTRICAL SERVICE LOCATED WITHIN 6 FEET OF THE PARKING SPACE THAT IS SUFFICIENT TO FOR EVSE PROVIDE 240 VOLT AC LEVEL 2 EV CHARGING, AS DEFINED BY STANDARD SAE J1772 FOR EVSE SERVICING ELECTRIC VEHICLES.
- PER C405.13, PARKING LOTS FOR OCCUPANCIES REQUIRE 20% TO BE EV READY. 4 EV READY SPACES (26% OF THE 15 SPACES TOTAL) IS PROVIDED.

| Revisions | Date | By | Appr. | Description |
|-----------|------|----|-------|-------------|
|           |      |    |       |             |

**Horsley Witten Group, Inc.**  
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 Fax: (508) 833-3150  
 Date: JUNE 2023

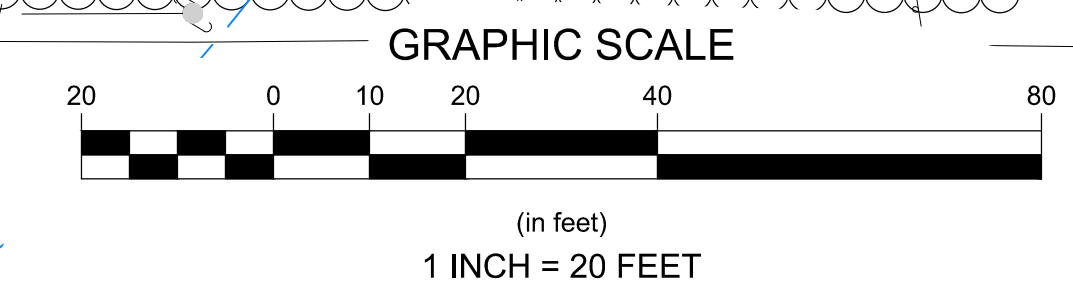
401 STATE ROAD  
 HOUSING DEVELOPMENT  
 WEST TISBURY, MASSACHUSETTS

PRESENTATION SITE PLAN

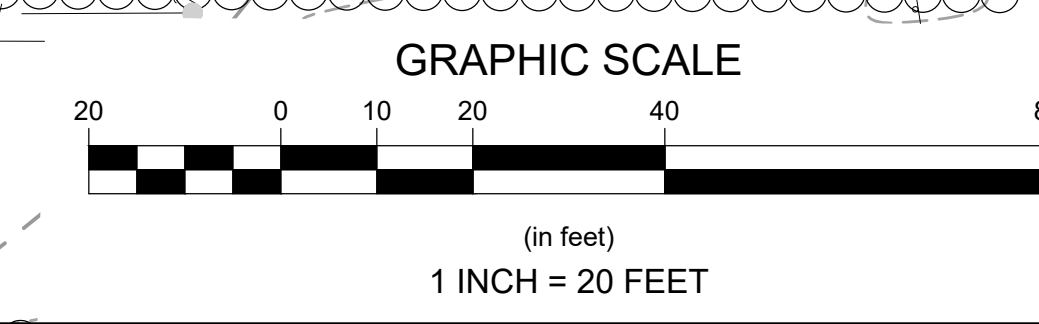
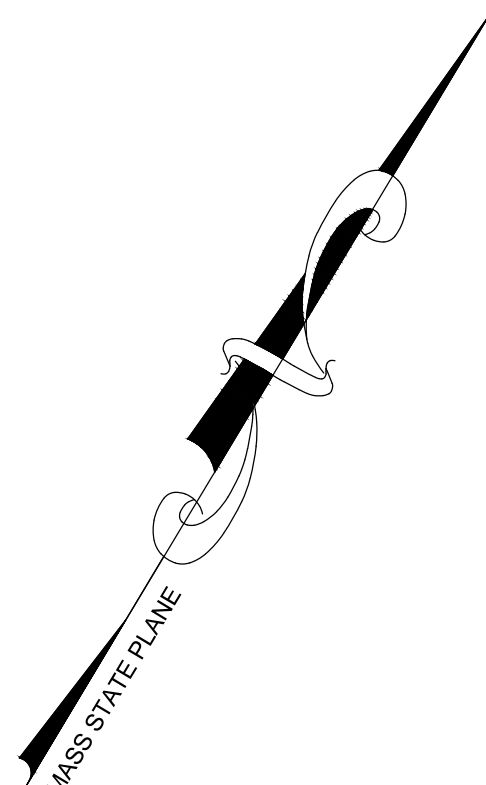
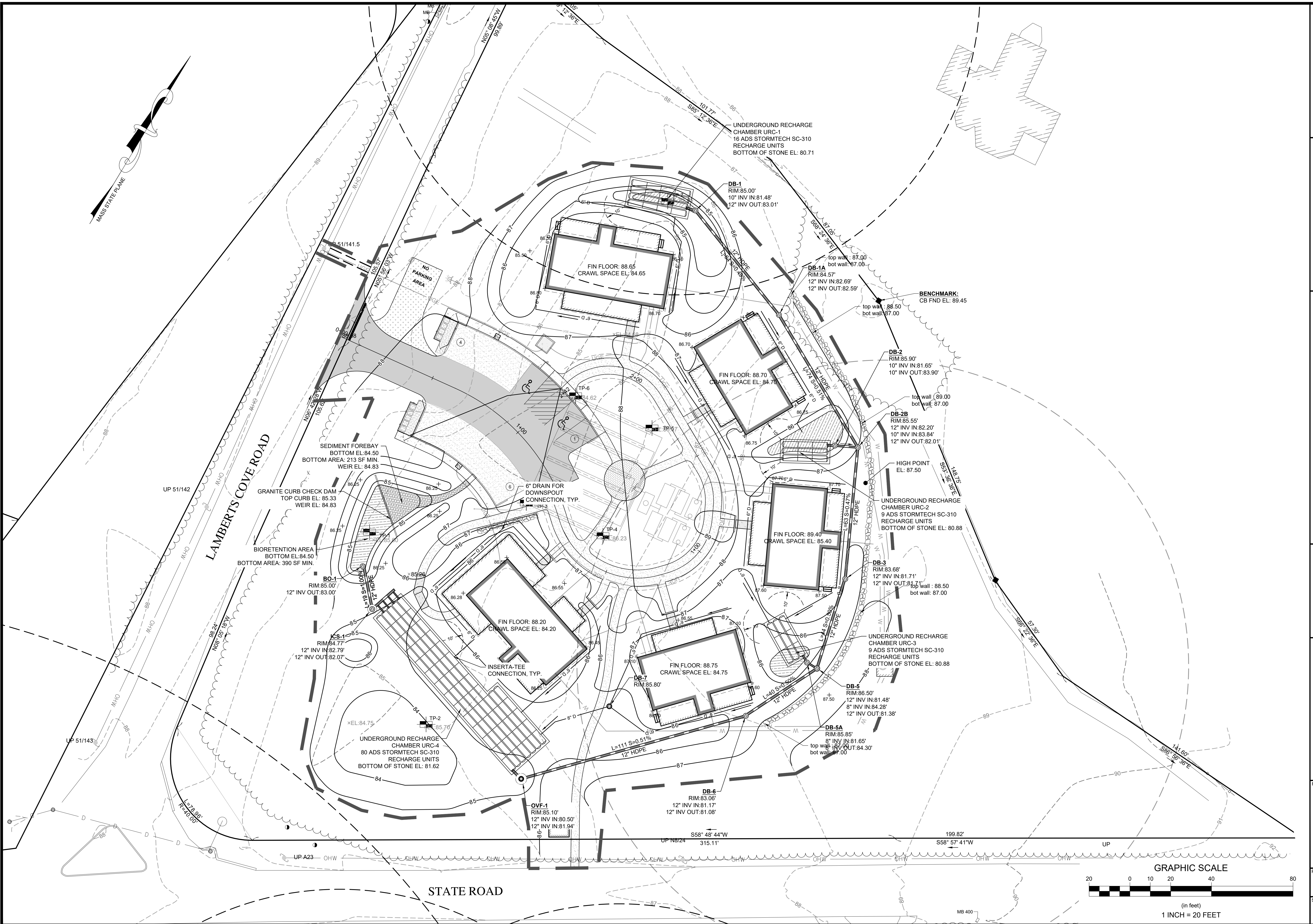
Prepared For:  
**Island Housing Trust**  
 P.O. Box 779  
 West Tisbury, MA 02575  
 Phone: ---  
 Fax: ---

Survey Provided By:  
**HorsleyWitten Group, Inc.**  
 90 Route 6A, Unit 1  
 Sandwich, MA 02563  
 Phone: (508) 833-3150  
 Fax: (508) 833-3150  
 Date: JUNE 2023

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| Revisions | Date | By | Appr. | Description |
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**Horsley Witten Group, Inc.**  
 Sustainable Environmental Solutions  
 90 Route 6A, Unit 1  
 Sandwich, MA 02563  
 Phone: (508) 833-6600  
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 Date: JUNE 2023

Town: DECEMBER 2023  
 Drawn By: \_\_\_\_\_  
 Checked By: \_\_\_\_\_

**401 STATE ROAD  
 HOUSING DEVELOPMENT  
 MAP 11, LOT 18  
 WEST TISBURY, MASSACHUSETTS**

Plan Set: \_\_\_\_\_  
 Plan Title: GRADING PLAN

Prepared For:  
**Island Housing Trust**  
 P.O. Box 779  
 West Tisbury, MA 02575  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

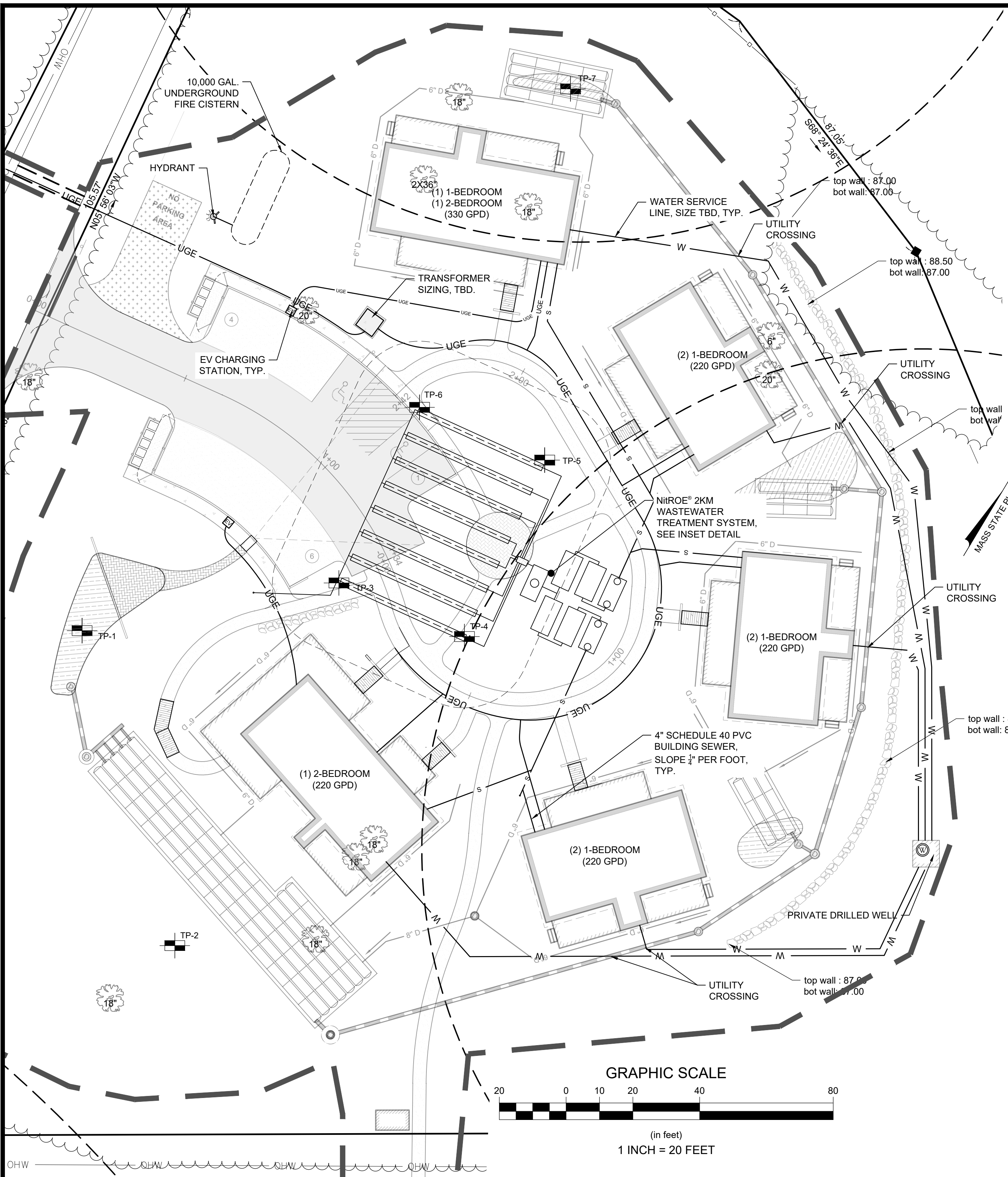
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Registration: \_\_\_\_\_

**DRAFT  
 NOT FOR  
 CONSTRUCTION**

Project Number: 23063 Sheet: 6 of 11  
 Sheet Number: C-6

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**WATER & SEWER INSTALLATION NOTES:**

- INSTALL SEWER AND WATER MAINS ACCORDING TO THE FOLLOWING GUIDELINES TO PREVENT FREEZING OF THE MAIN OR SEWER:  

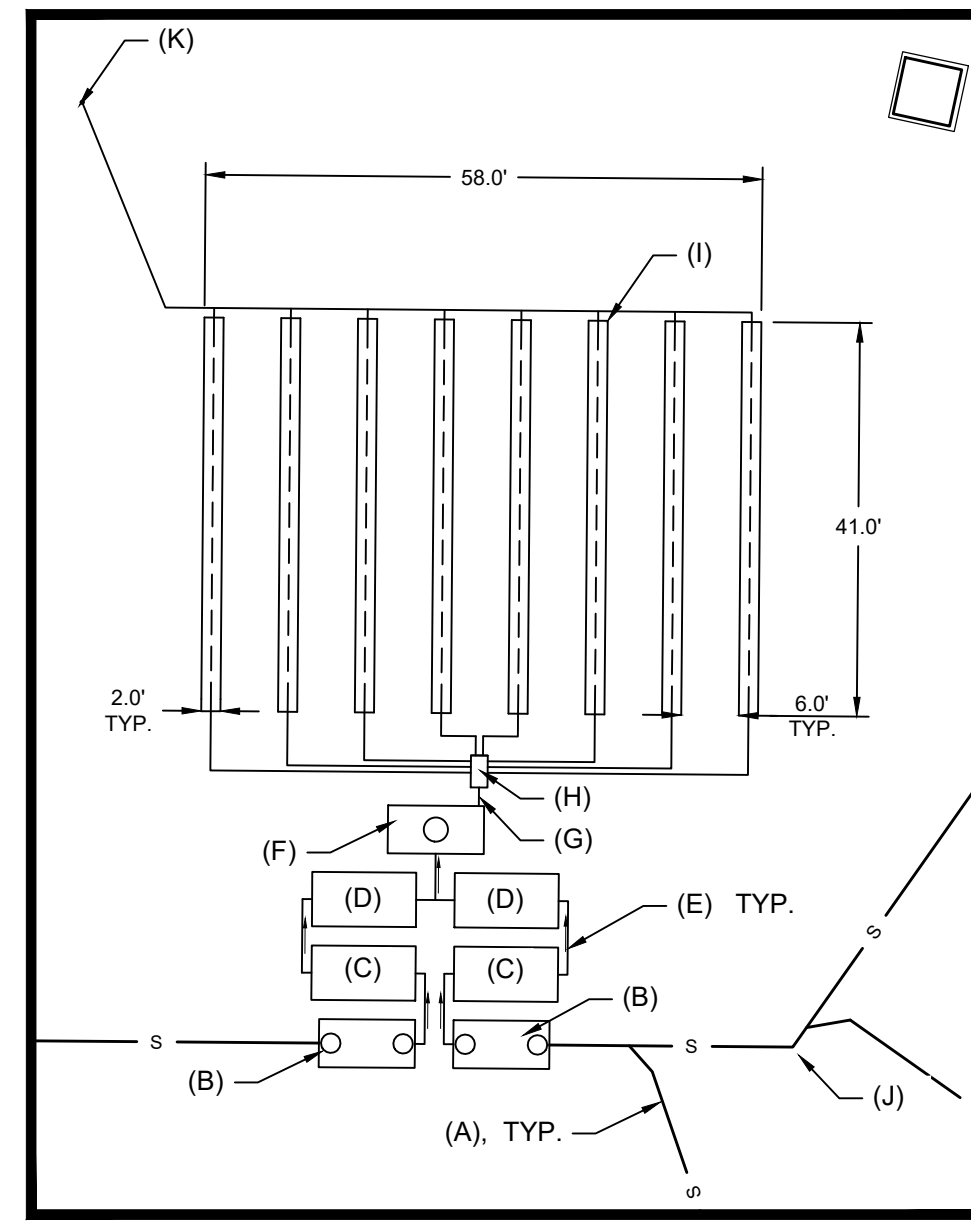
| UTILITY TYPE        | MIN. COVER OVER TOP OF PIPE | MIN. HORIZONTAL DISTANCE TO DRAIN STRUCTURE |
|---------------------|-----------------------------|---|
| SANITARY FORCE MAIN | 5'                          | 3'  |
| GRAVITY FORCE MAIN  | 4'                          | 2'  |
| WATER MAIN          | 5'                          | 2'  |
- INSULATE SANITARY FORCE MAINS, WATER MAINS, HYDRANT PIPING AND DEAD END WATER LINES WHERE SOIL COVER OR HORIZONTAL SEPARATION TO PRECAST STRUCTURES IS LESS THAN THE DISTANCE SPECIFIED ABOVE AND/OR WHERE SHOWN ON PLANS.
- INSULATION: 2" THICK POLYURETHANE INSULATION WITH PVC JACKET PLACED AROUND PIPE OR DESIGNER APPROVED EQUAL.
- WATER AND SEWER SEPARATION IS TYPICALLY 10-FOOT MINIMUM HORIZONTAL AND 18-INCHES VERTICAL WITH SEWER MAINS BELOW THE WATER MAINS (SEE DETAIL). IF SITE CONDITIONS REQUIRE LESS, THEN INSTALL UTILITIES AS INDICATED ON DETAILS.

**WATER SYSTEM INSTALLATION NOTES:**

- CONSTRUCT THE WATER MAIN AND ITS APPURTENANCE IN ACCORDANCE WITH THE LOCAL WATER DEPARTMENT'S STANDARDS AND SPECIFICATIONS AND PAY FOR ALL ASSOCIATED FEES AS REQUIRED BY THE WATER DEPARTMENT.
- ALL PROPOSED WATER MAIN 4-INCHES AND GREATER IN DIAMETER ARE DUCTILE IRON CLASS 52. ONLY USE HDPE 3408 OR AS INDICATED ON DRAWINGS OR AS APPROVED BY THE ENGINEER.
- SUPPLY TWO COPIES OF SWORN CERTIFICATES TO PROVE THAT ALL PIPES AND FITTINGS ARE INSPECTED AND TESTED AS REQUIRED BY THE STANDARD SPECIFICATIONS TO WHICH THE MATERIAL IS MANUFACTURED.
- GATE VALVES: MUELLER (A 2360 SERIES), CLOW (AWWA STANDARD C509 SERIES), AMERICAN DARLING (RESILIENT WEDGE) OR APPROVED EQUAL.
- PROVIDE GATE VALVES ON ALL HYDRANT BRANCHES AND WATER MAIN. THE GATE VALVE TO TURN TO THE RIGHT TO OPEN (CLOCKWISE). ALL BOLTS AND NUTS MUST BE RUST PROOF STEEL.
- CLEAR ALL NEWLY INSTALLED WATER SYSTEM COMPONENTS OF ALL FOREIGN MATERIALS SUCH AS DIRT AND MISCELLANEOUS DEBRIS PRIOR TO SYSTEM TESTING. NO TESTING IS ALLOWED WITHOUT REMOVAL OF ALL FOREIGN MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A PRESSURE TEST AND DISINFECTION TEST OF ALL WATER MAINS. THE TESTS MUST BE WITNESSED BY THE APPROVED INSPECTOR OR THE ENGINEER. THE CONTRACTOR MUST PROVIDE A MINIMUM OF 48-HOUR ADVANCE NOTICE TO THE LOCAL WATER DEPARTMENT PRIOR TO THE PRESSURE AND DISINFECTION TESTS. THE CONTRACTOR MUST PROVIDE ALL NECESSARY EQUIPMENT AND CHEMICALS TO PROPERLY CONDUCT THE TESTS.
- MAINTAIN UP-TO-DATE AS-BUILT DRAWINGS AND NOTES INDICATING THE HORIZONTAL AND VERTICAL LOCATION WITH TWO TIES OF ALL SYSTEM COMPONENTS INSTALLED. AS-BUILT DRAWINGS AND NOTES WILL BE UTILIZED BY THE ENGINEER FOR THE PREPARATION OF RECORD PLANS.

**SEWER SYSTEM OPERATION & MAINTENANCE:**

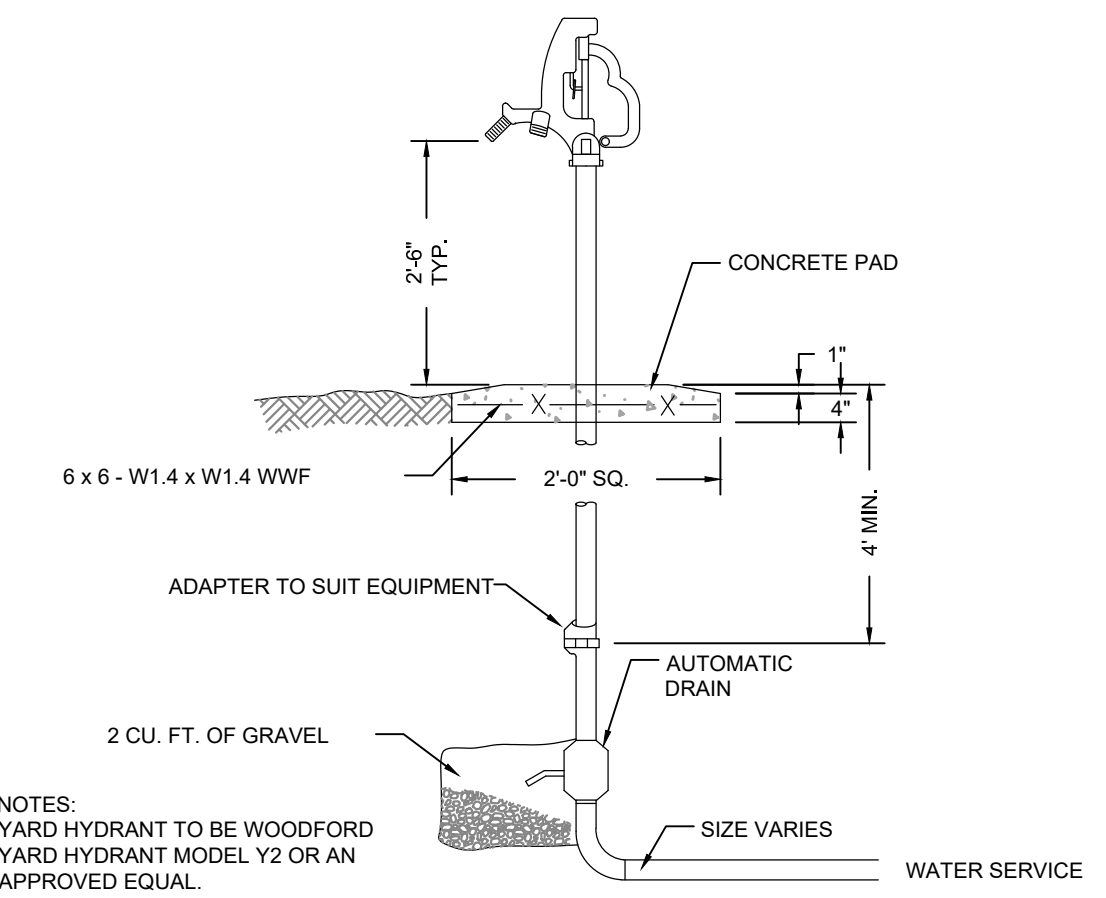
- CLEAN ALL NEWLY INSTALLED FACILITIES, INCLUDING SEWER COLLECTION SYSTEM OF ALL FOREIGN MATERIALS SUCH AS DIRT AND MISCELLANEOUS DEBRIS PRIOR TO SYSTEM TESTING. TESTING MUST BE WITNESSED AND INSPECTED BY THE ENGINEER. NO TESTING IS ALLOWED WITHOUT REMOVAL OF ALL FOREIGN MATERIALS.
- CONDUCT A LEAKAGE TEST OF ALL SEWER MAINS. TEST MUST BE WITNESSED BY THE ENGINEER. THE CONTRACTOR MUST PROVIDE THE ENGINEER WITH A MINIMUM OF 48-HOURS ADVANCE NOTICE TO THE TIME OF THE PRESSURE TEST.
- TEST SEWER PIPES FOR LEAKAGE WITH THE FOLLOWING PROCEDURE:  
 INTRODUCE LOW PRESSURE AIR INTO THE SEAL LINE (WITH PNEUMATIC PLUGS) UNTIL THE INTERNAL AIR PRESSURE REACHES 4 PSI GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUNDWATER THAT MAY BE OVER THE PIPE.  
 ALLOW AT LEAST 2 MINUTES FOR AIR PRESSURE TO STABILIZE.  
 AFTER THE STABILIZATION PERIOD (3.5 PSI MINIMUM PRESSURE IN THE PIPE), THE PORTION OF PIPE TESTED IS ACCEPTABLE IF THE TIME REQUIRED IN MINUTES FOR THE PRESSURE TO DECREASE FROM 3.5 TO 3 PSI IS NOT LESS THAN 190 TIMES THE LENGTH OF PIPE BEING TESTED.
- VACUUM TEST ALL SEWER MANHOLES. TESTS MUST BE WITNESSED BY THE ENGINEER UNLESS THE SEASONAL GROUNDWATER LEVEL IS MORE THAN 10 FEET FROM THE BOTTOM OF THE MANHOLE.
- MANDREL TEST ALL SEWER MAINS AFTER 30 DAYS. TESTS MUST BE WITNESSED BY A TOWN REPRESENTATIVE OR THE ENGINEER.



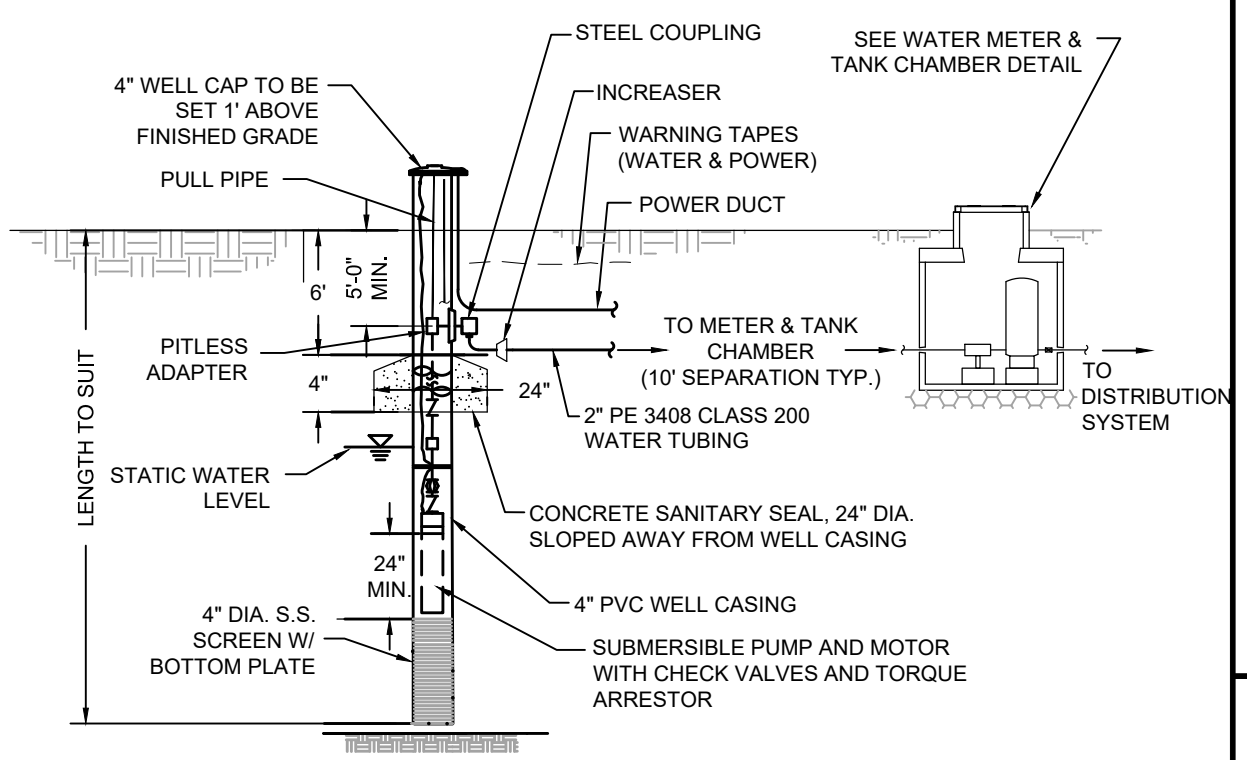
**SOIL ABSORPTION SYSTEM DESIGN LAYOUT**  
INSET SCALE: 1" = 20'

**SOIL ABSORPTION SYSTEM COMPONENTS:**

- A. 4-IN. DIAMETER, SCHEDULE 40 PVC BUILDING SEWER PIPE.
- B. 1500 GAL. 2-COMPARTMENT SEPTIC TANK W/24" COVERS TO FINISHED GRADE. PROVIDE EFFLUENT FILTER ON OUTLET SIDE.
- C. 1500 GAL. NIROE® 2KM SUBMERGED AERATION CHAMBER (SAC). SEE DETAILS FOR ACCESS COVER REQUIREMENTS.
- D. 1500 GAL. NIROE® 2KM DENITRIFICATION CHAMBER (DC) SEE DETAILS FOR ACCESS COVER REQUIREMENTS.
- E. 4-IN. DIAMETER, SCHEDULE 40 PVC SEPTIC TANK EFFLUENT PIPE
- F. 1,000 GAL. PUMP CHAMBER W/30"-DIA. COVER TO FIN. GRADE.
- G. XX DIA. SCHEDULE 40 PVC PRESSURE TRANSPORT PIPE.
- H. DISTRIBUTION BOX.
- I. TRENCH SOIL ABSORPTION SYSTEM.
- J. CLEAN-OUT.
- K. VENT.
- L. CONTROL PANEL.

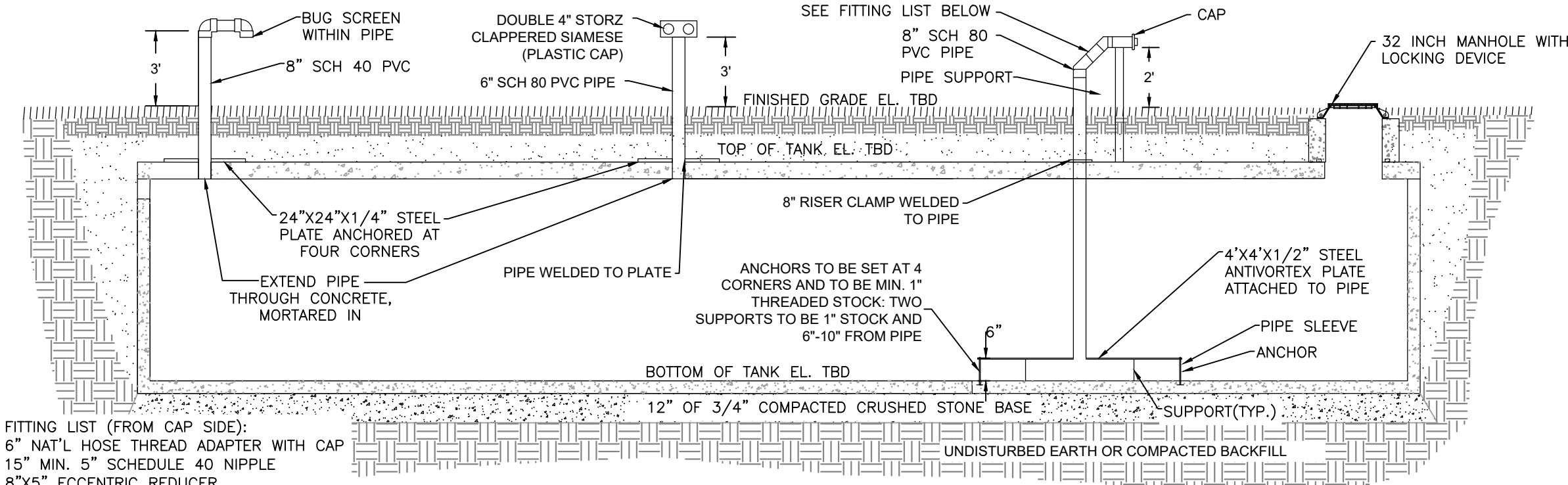


**YARD HYDRANT DETAIL**  
NOT TO SCALE



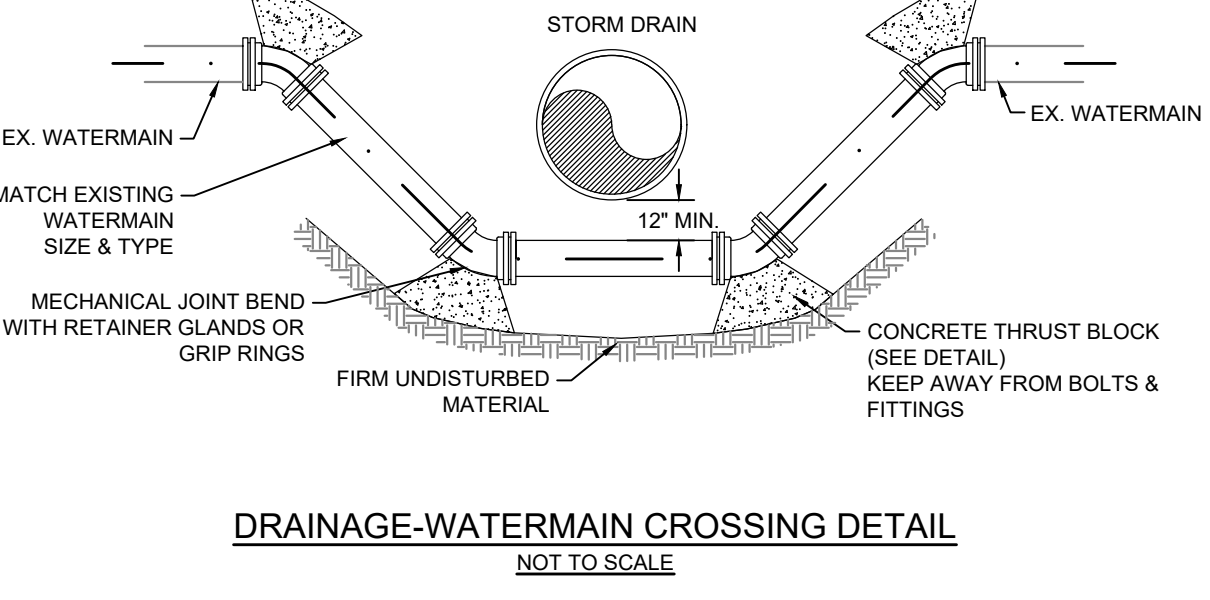
**WATER SUPPLY WELL**  
NOT TO SCALE

- WATER WELL NOTES:**
- LENGTH OF SCREEN, ELEVATION OF SCREEN, SLOT SIZE, AND PUMP SPECIFICATIONS ARE DEPENDENT ON ACTUAL AQUIFER CHARACTERISTICS COUNTEREATED AT DEPTH AND ARE SUBJECT TO CHANGE. THE DRILLING CONTRACTOR SHALL COORDINATE THE FINAL WELL SPECIFICATIONS WITH ENGINEER PRIOR TO COMPLETION. SOIL SAMPLES SHALL BE COLLECTED AT AN INTERVAL NOT TO EXCEED 5-FT WITHIN WATER-BEARING FORMATIONS. GRAIN SIZE ANALYSES MAY BE REQUIRED.
  - DESIGN YIELD: 35 GPM.
  - WELL SCREEN SHALL BE MANUFACTURED BY JOHNSON WELL SCREEN OR AN ENGINEER APPROVED EQUAL.
  - PUMP TO BE GOULD'S 4" HIGH CAPACITY SUBMERSIBLE MODEL 39G50 WITH GOULDS BALANCED FLOW VARIABLE FREQUENCY DRIVE CONTROLLER OR APPROVED EQUAL. CONTROLLER TO BE MOUNTED ON THE CONTROL PANEL.
  - PRIVATE WELLS TO BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF EASTHAM BOARD OF HEALTH REGULATIONS AND THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION PRIVATE WELL GUIDELINES.
  - WATER SUPPLY MAIN (TUBING) SHALL BE INSTALLED PER THE DETAIL PROVIDED IN THE SITE WORK "CONSTRUCTION PLANS". DETECTABLE MAGNETIC UNDERGROUND TAPE SHALL BE INSTALLED 1'-0" FOOT ABOVE ALL TUBING.
  - RESIDENTIAL WATER METERS SHALL BE SIZE 5/8" DISC METERS AS MANUFACTURED BY BADGER METER OR APPROVED EQUAL. METERS SHALL MEET OR EXCEED AWWA C700 AND C710 STANDARDS.



**20,000 GALLON EMERGENCY WATER SUPPLY TANK**  
NOT TO SCALE

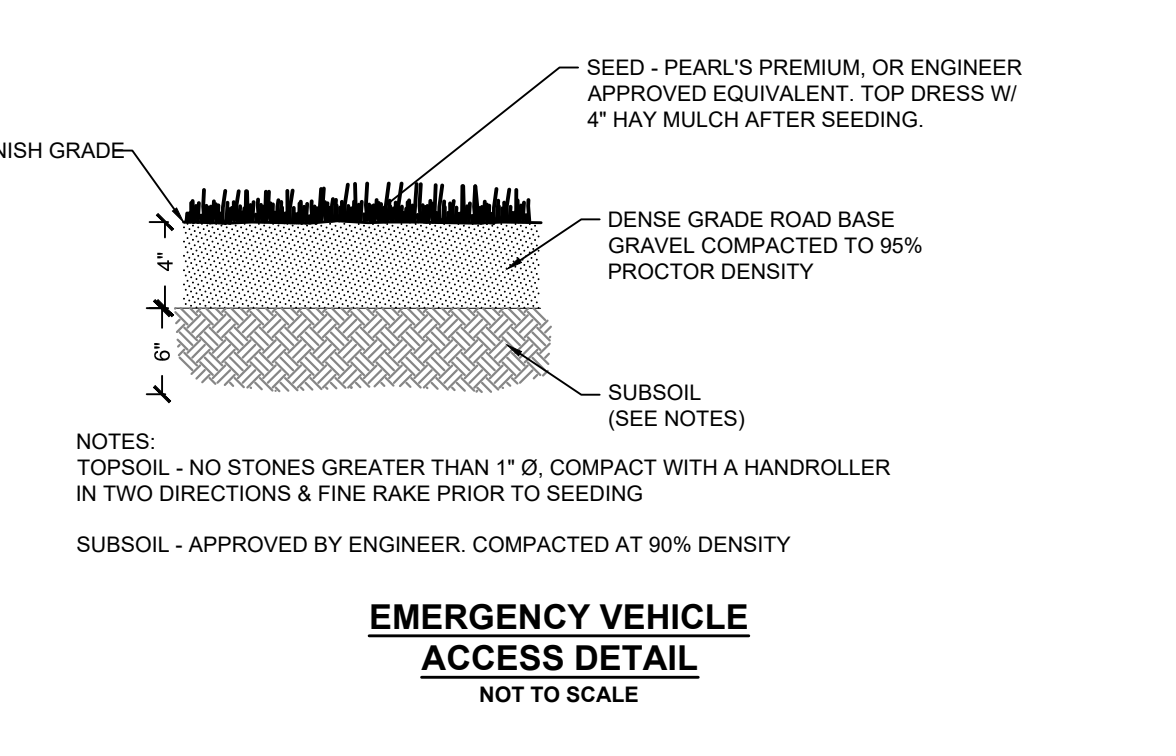
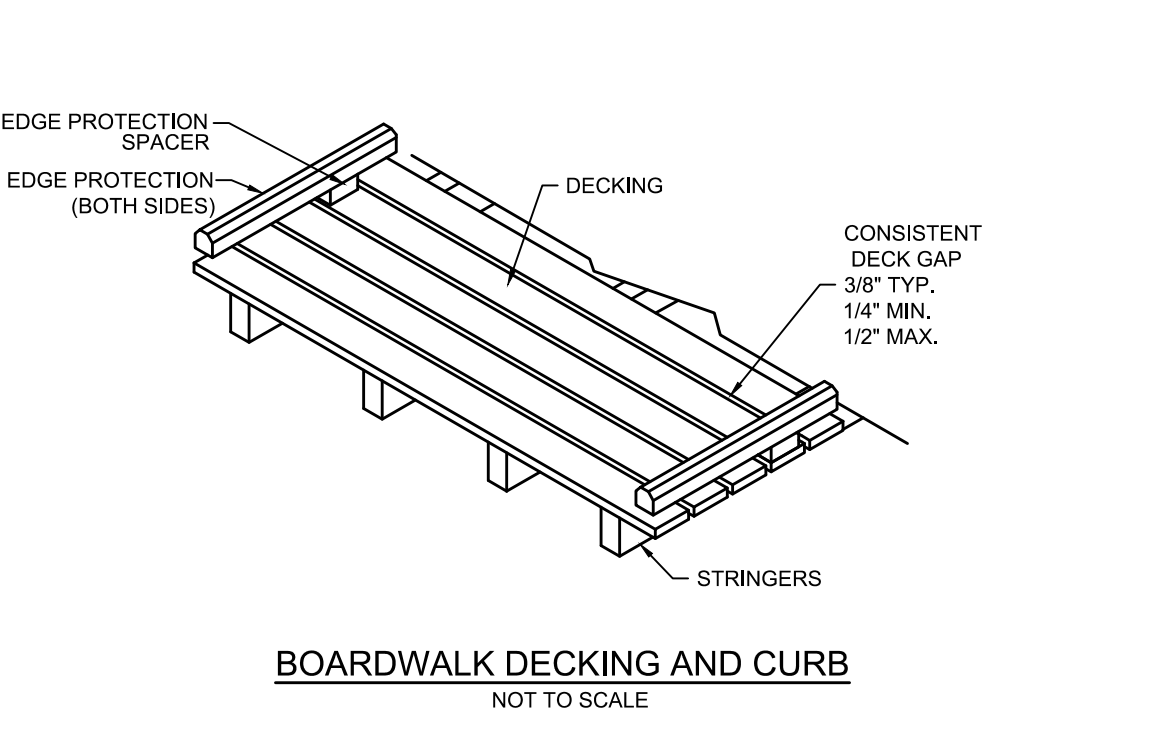
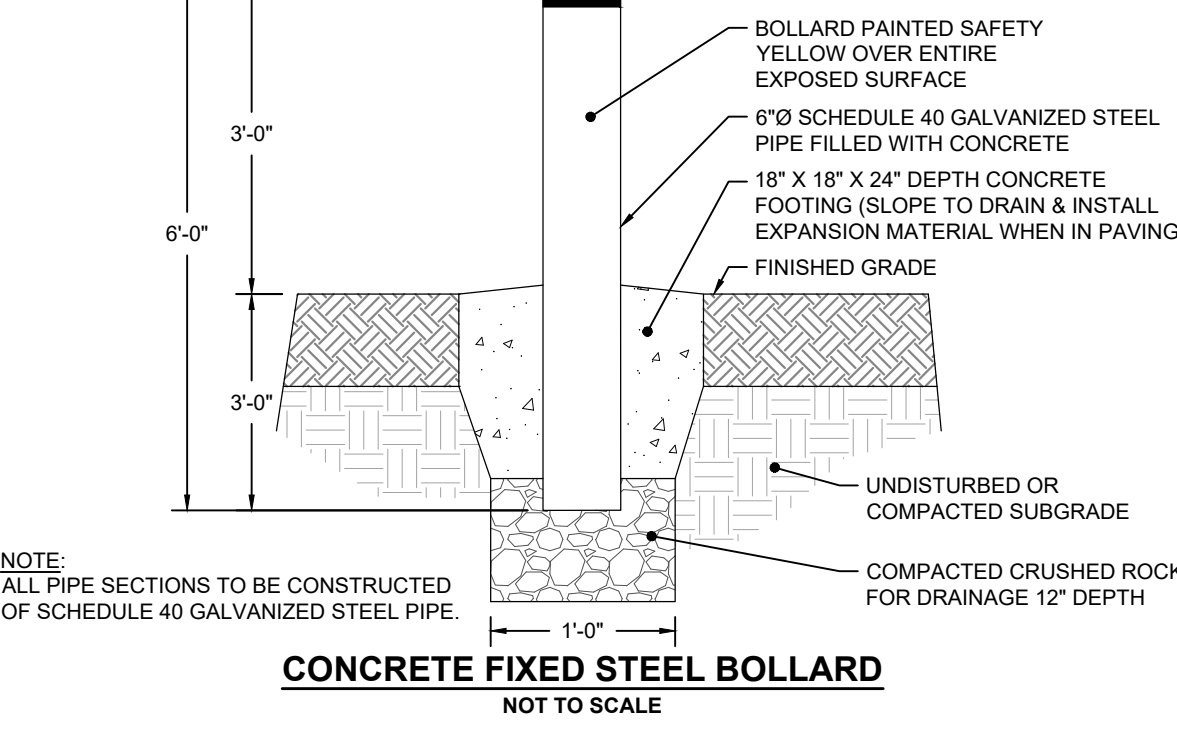
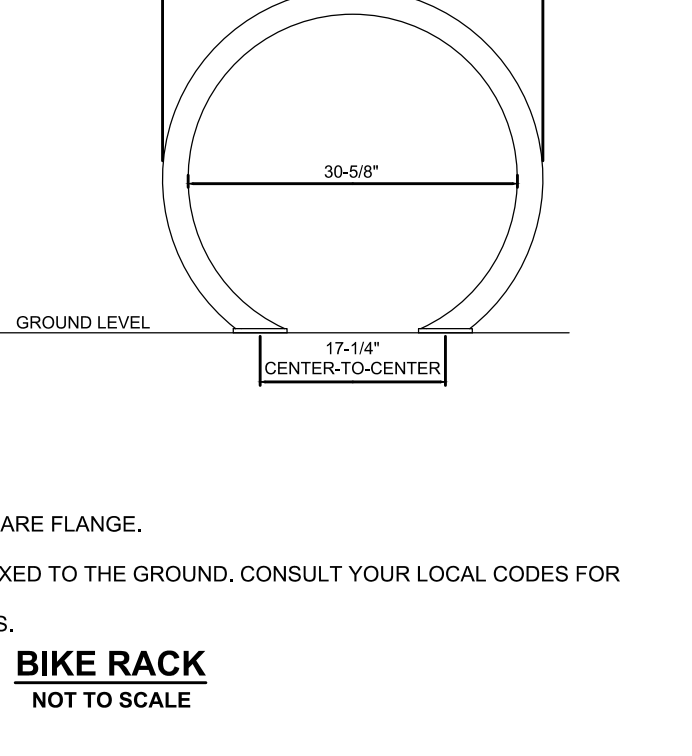
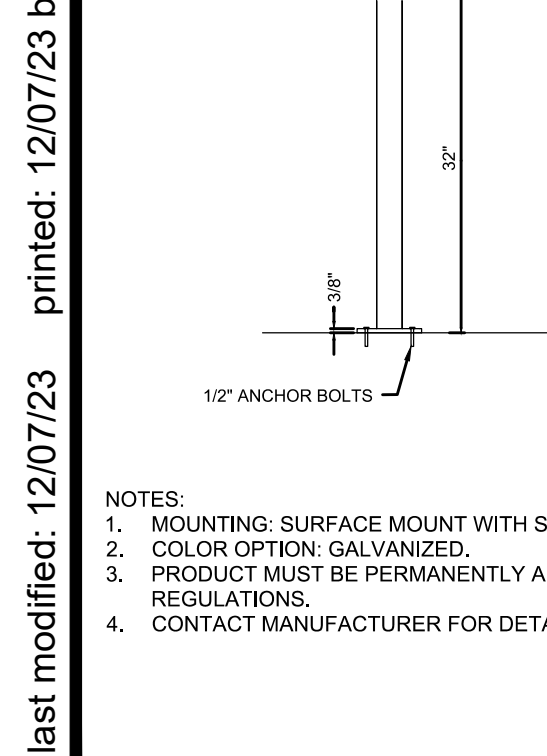
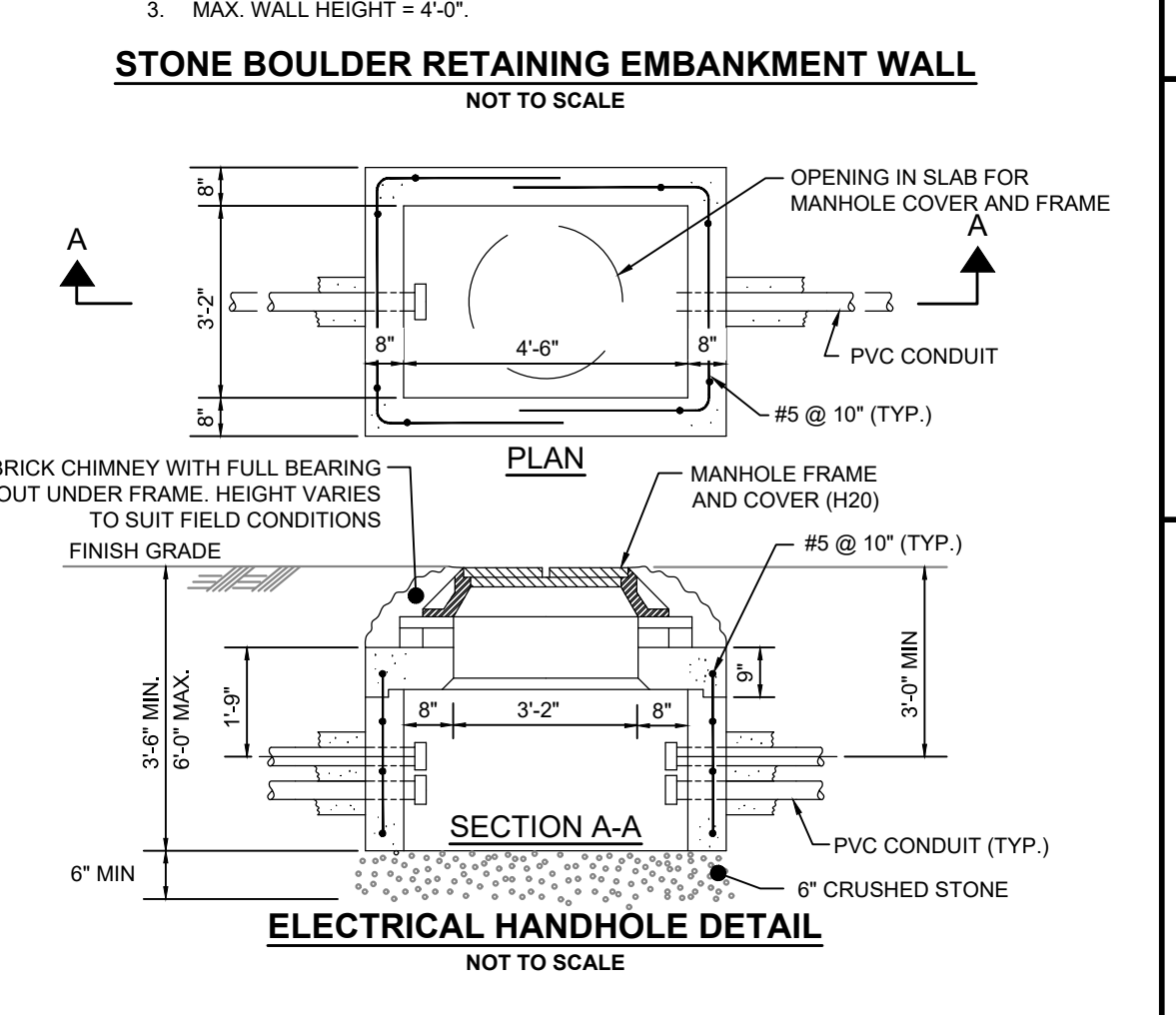
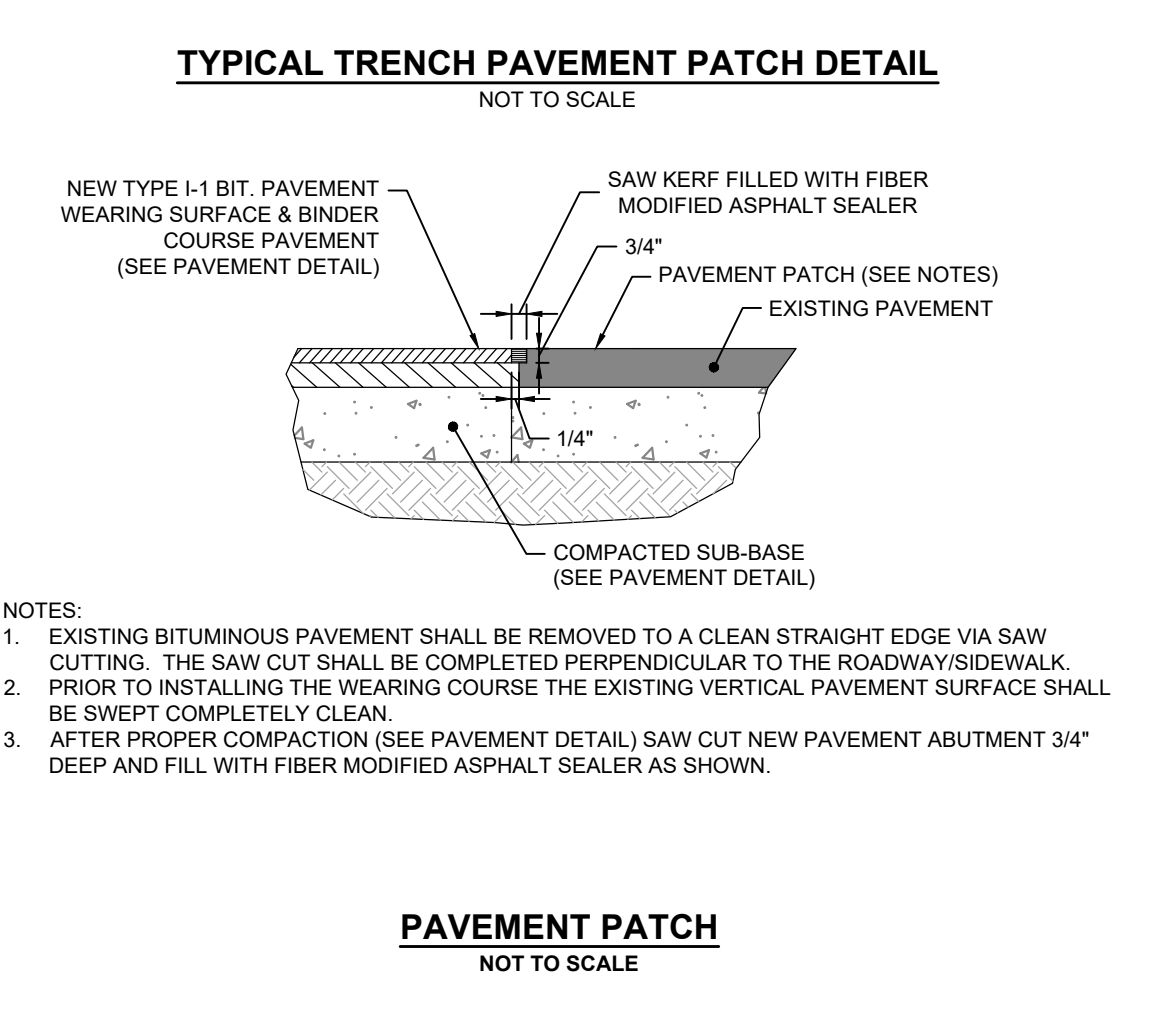
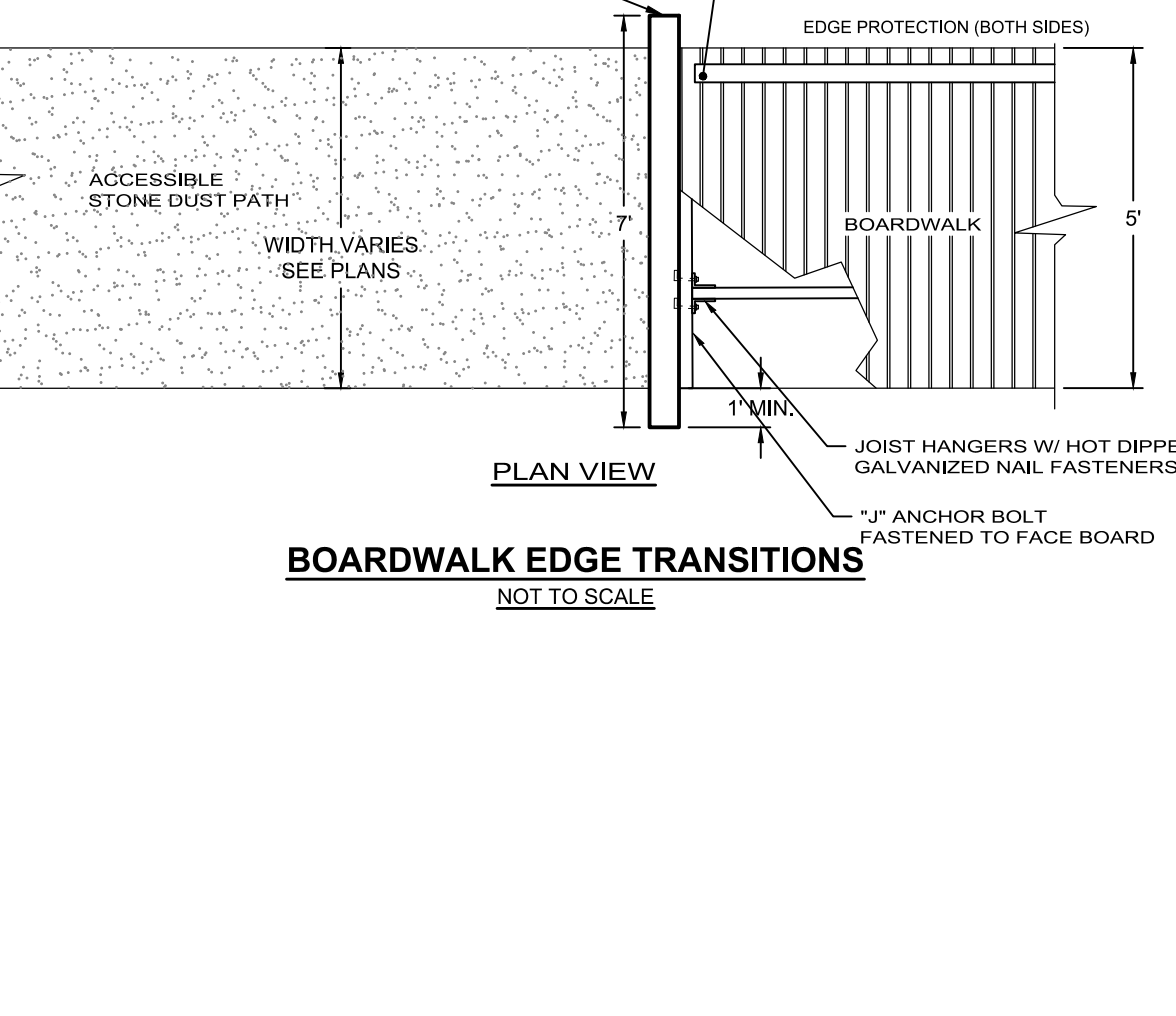
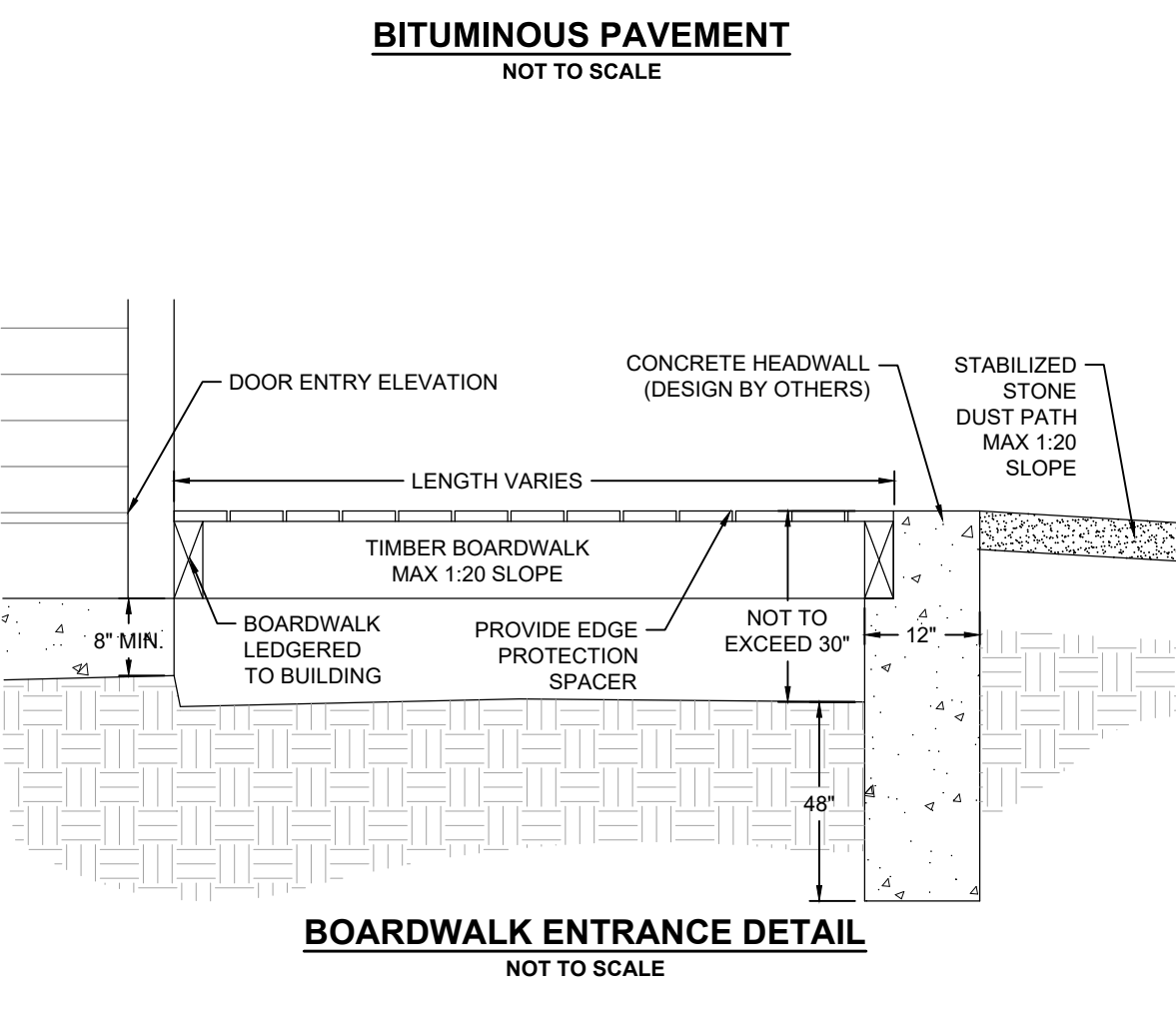
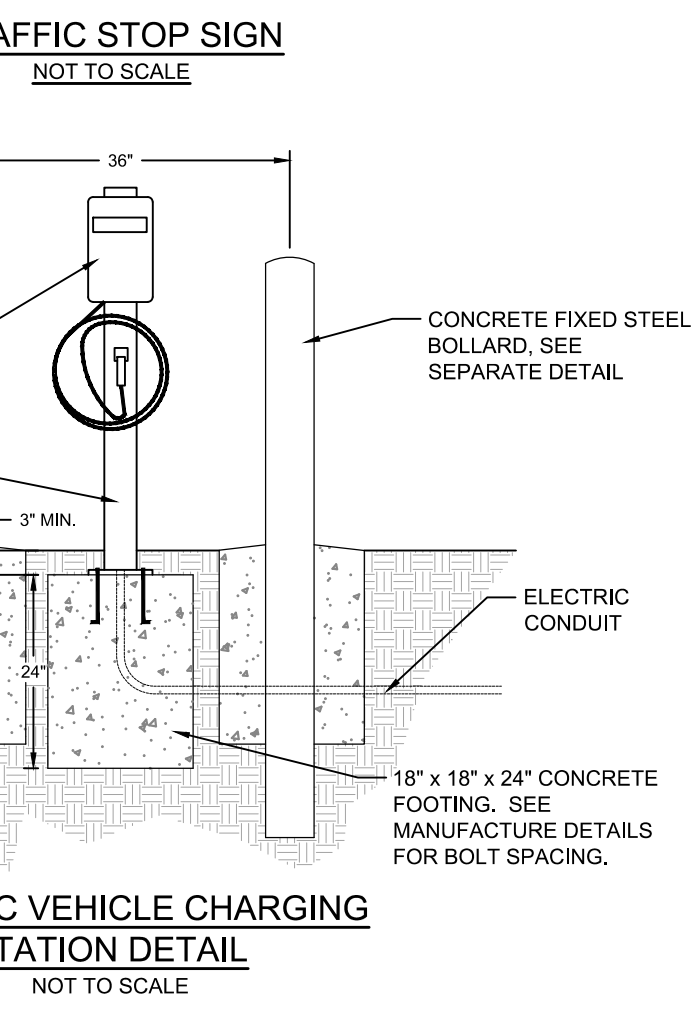
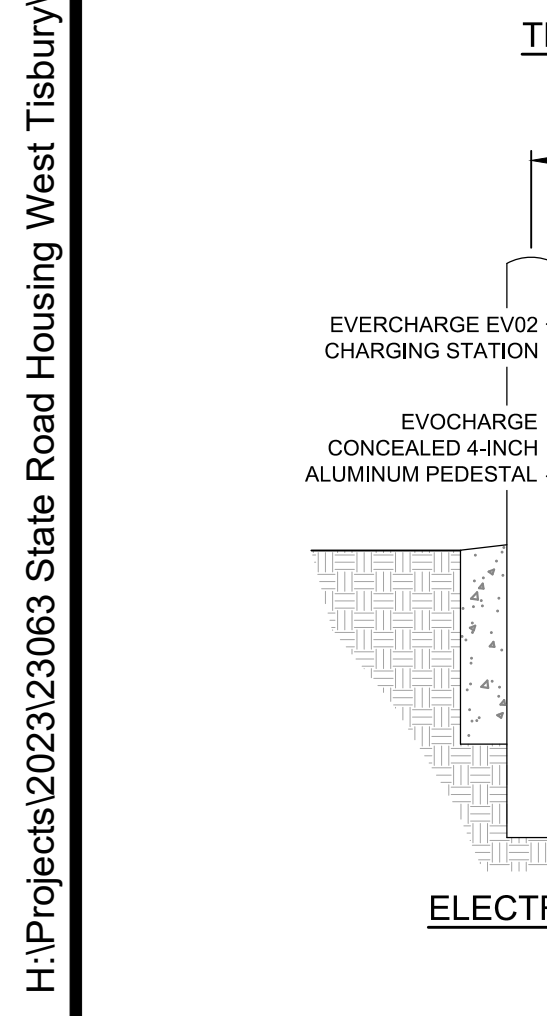
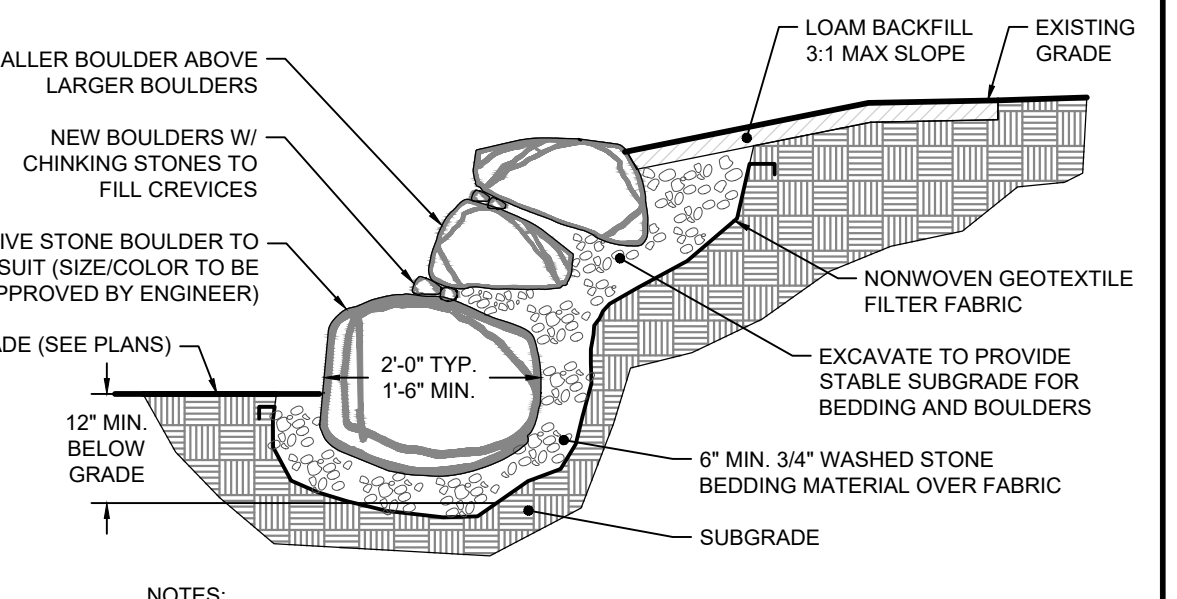
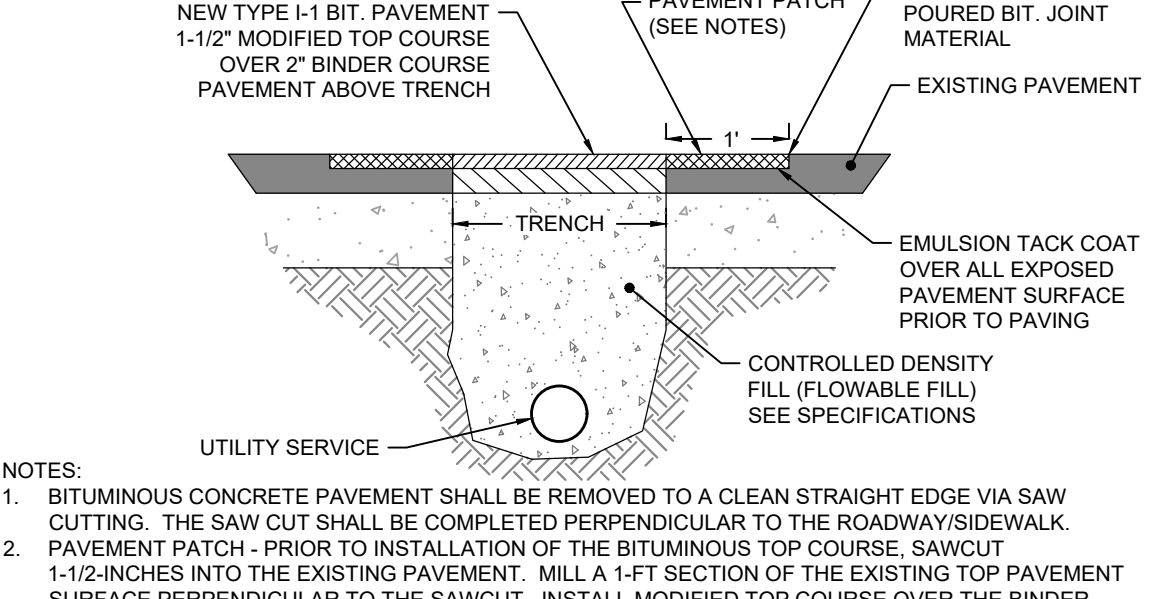
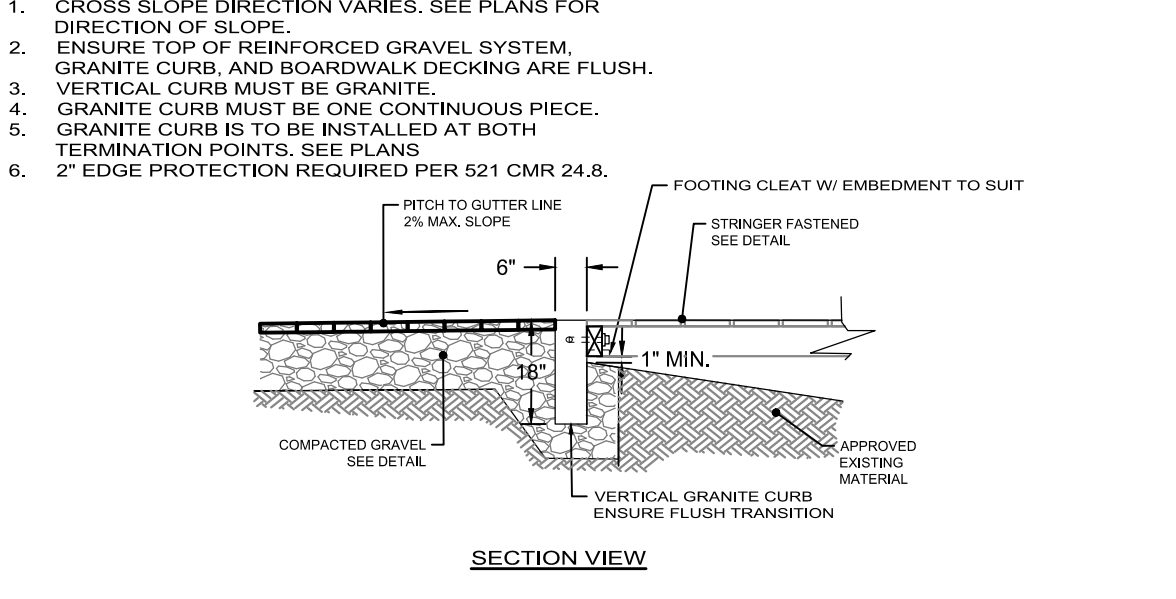
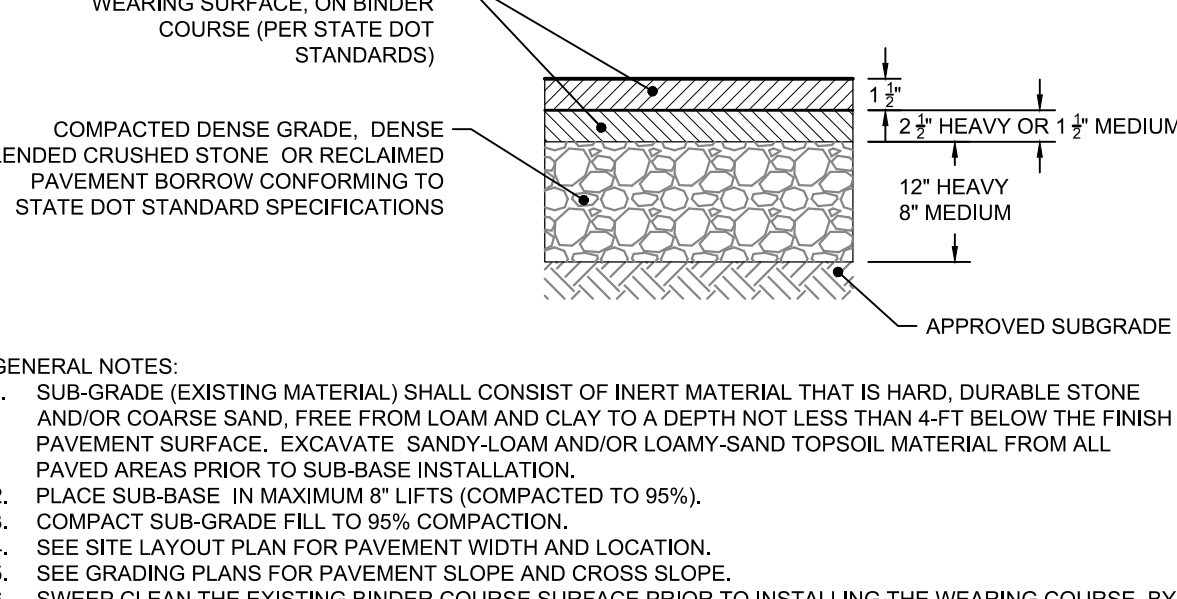
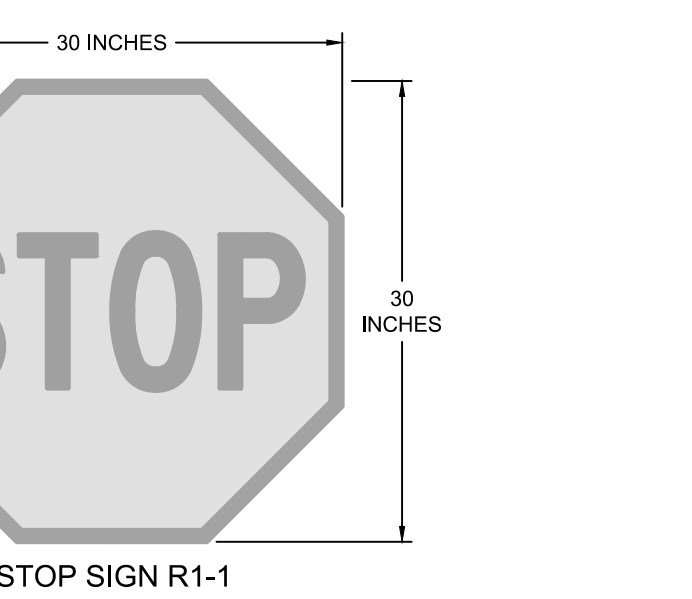
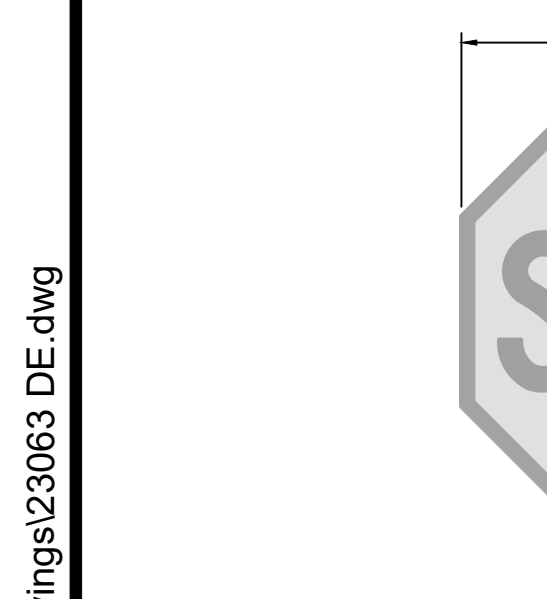
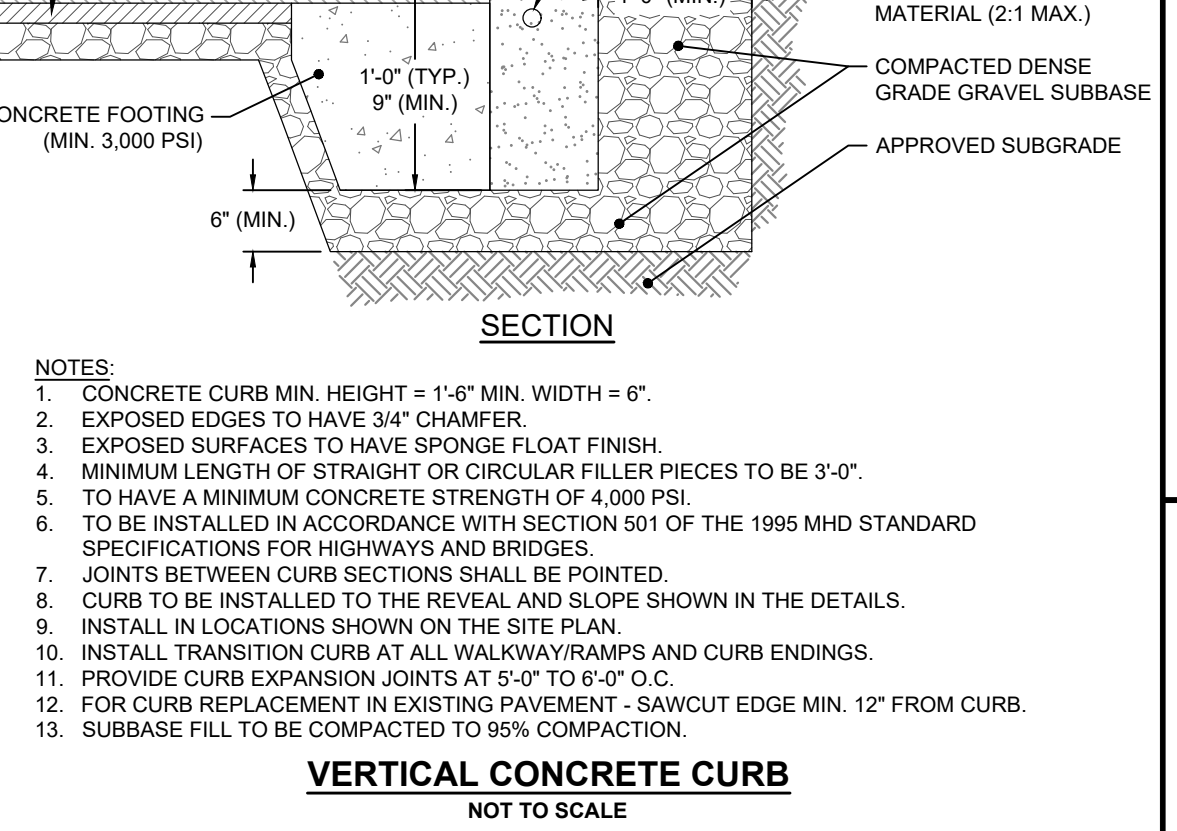
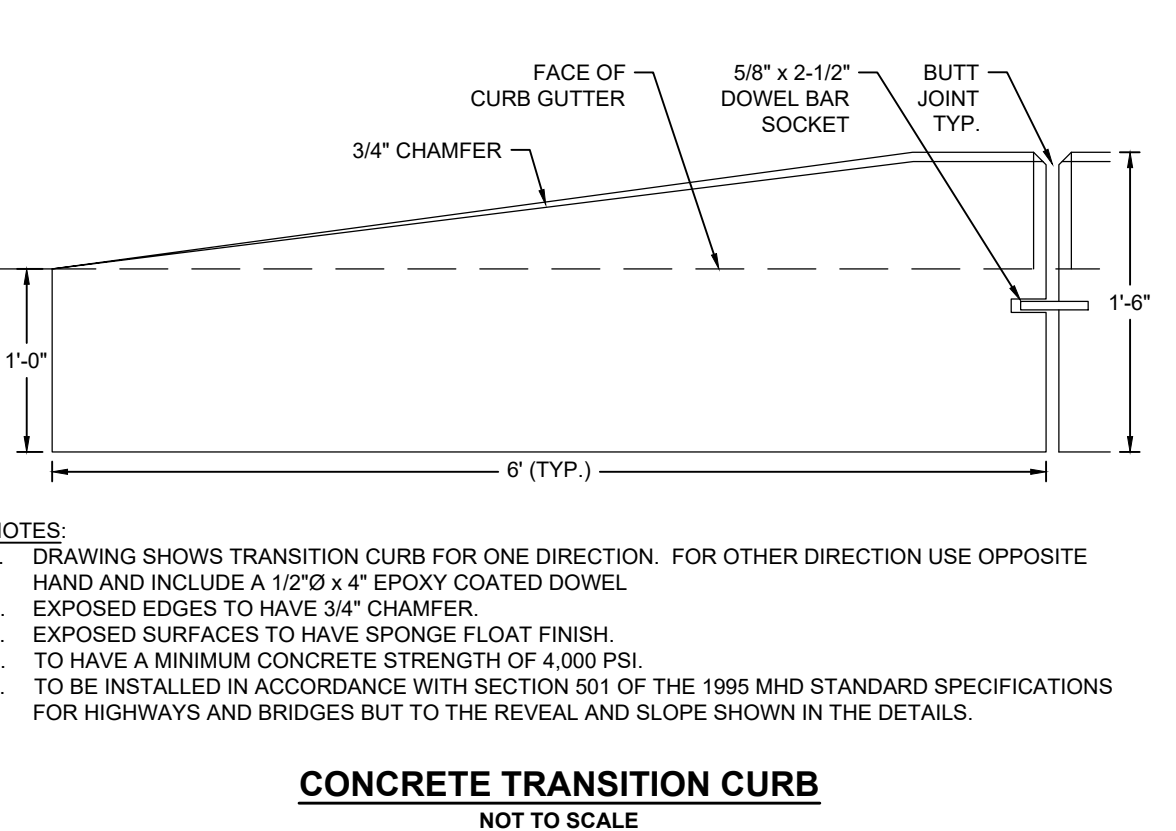
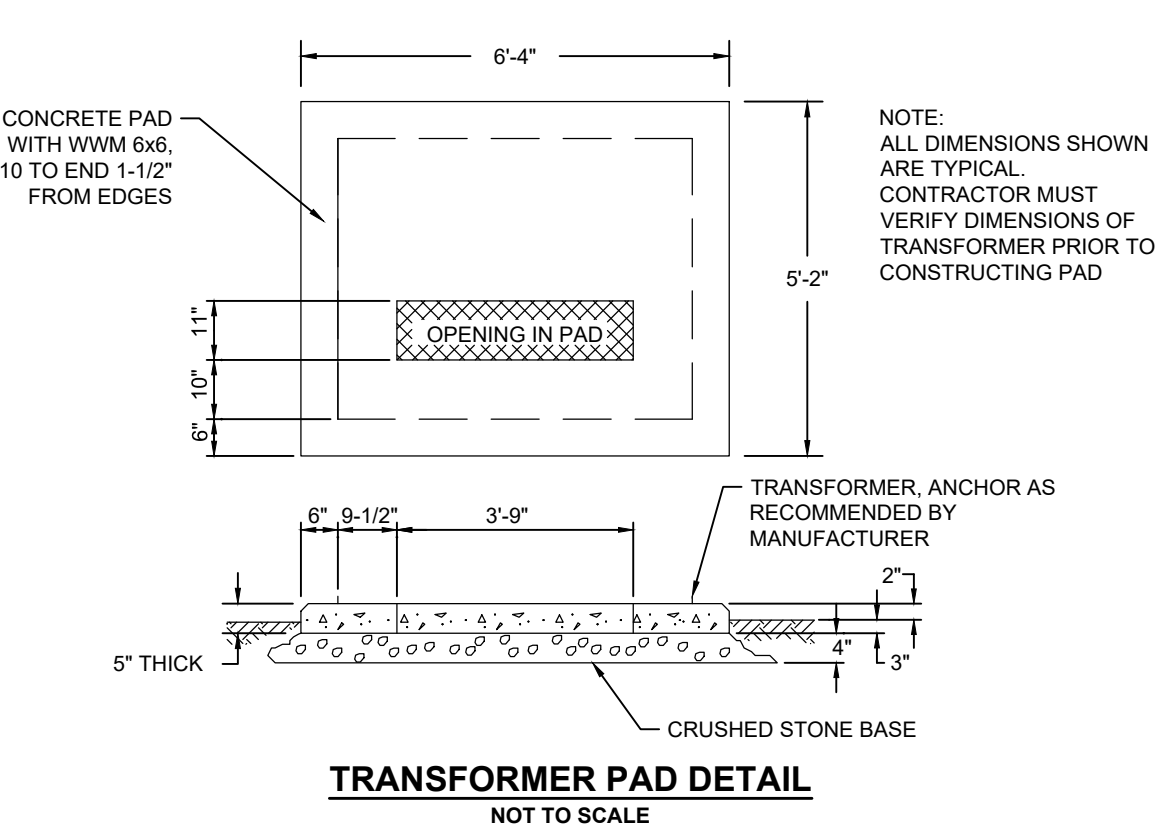
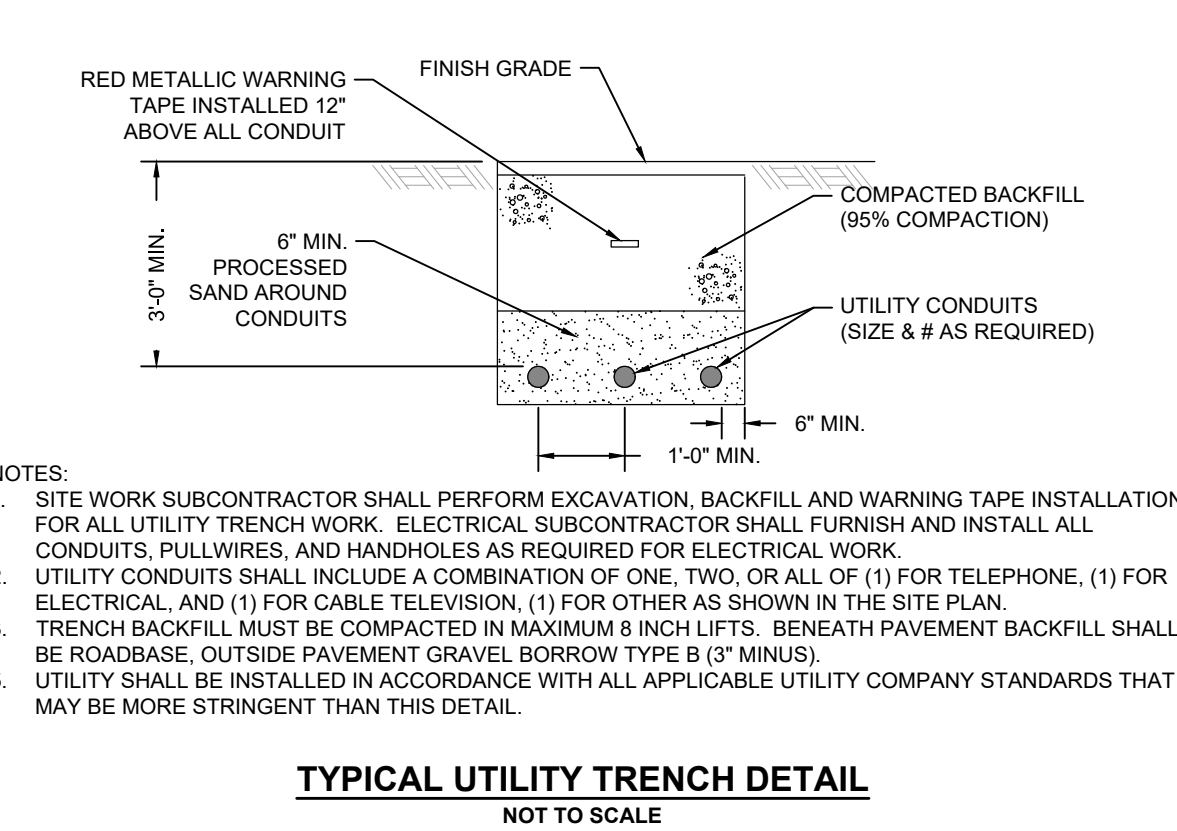
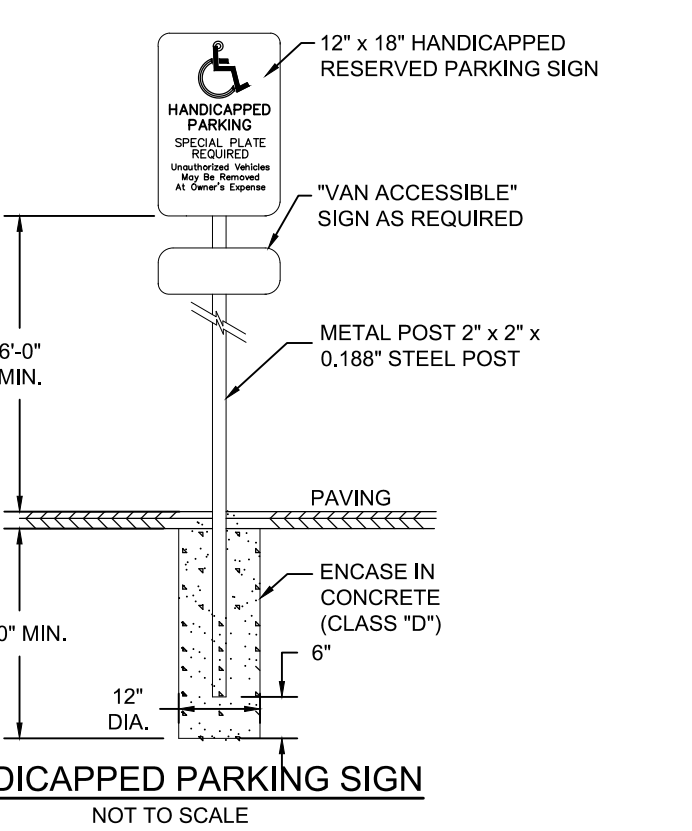
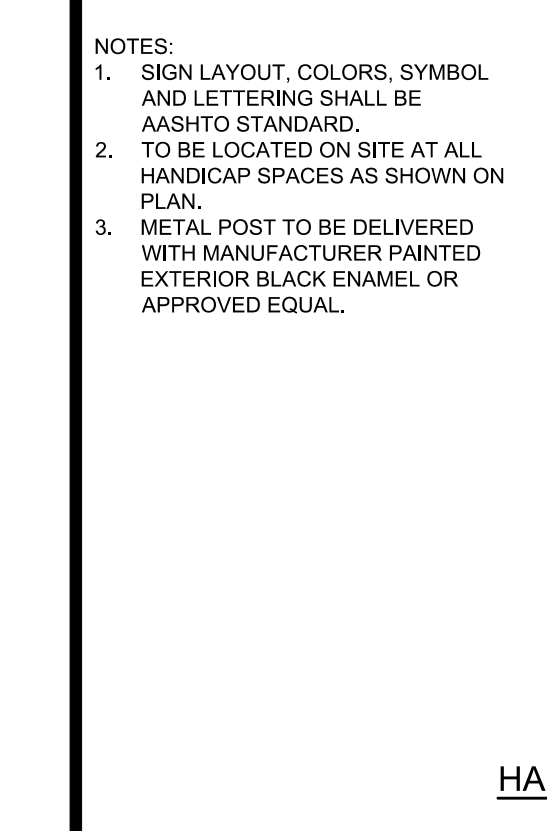
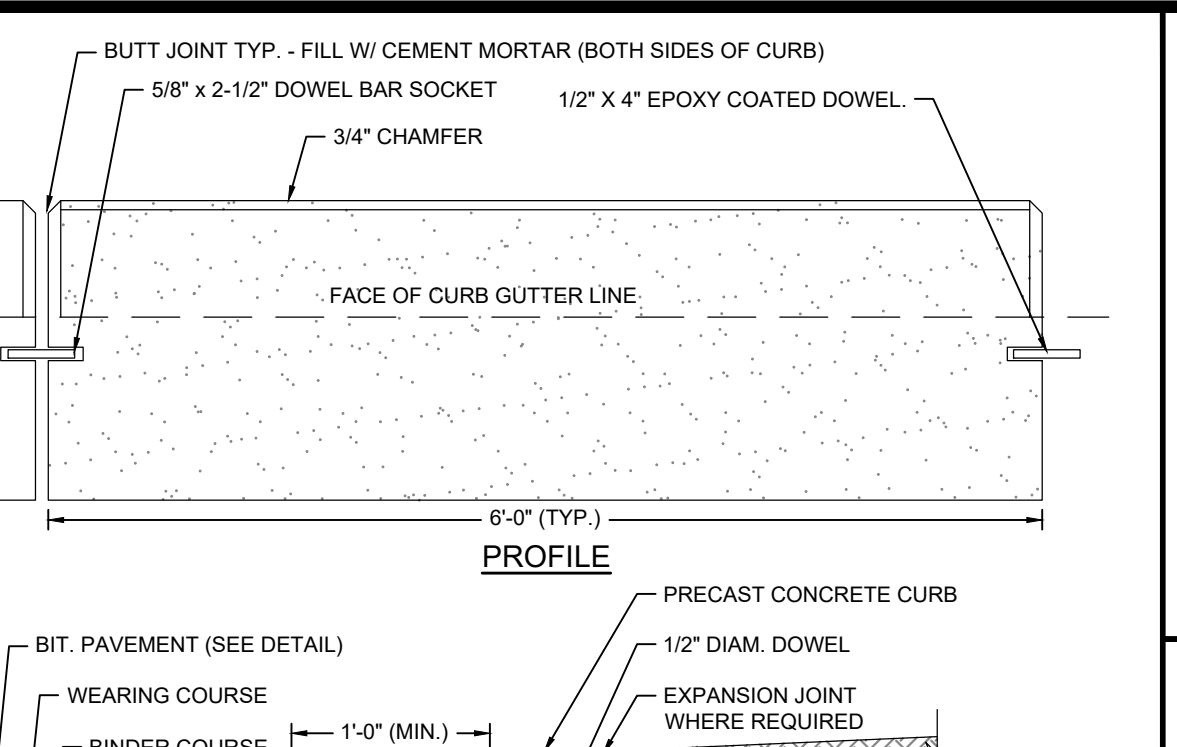
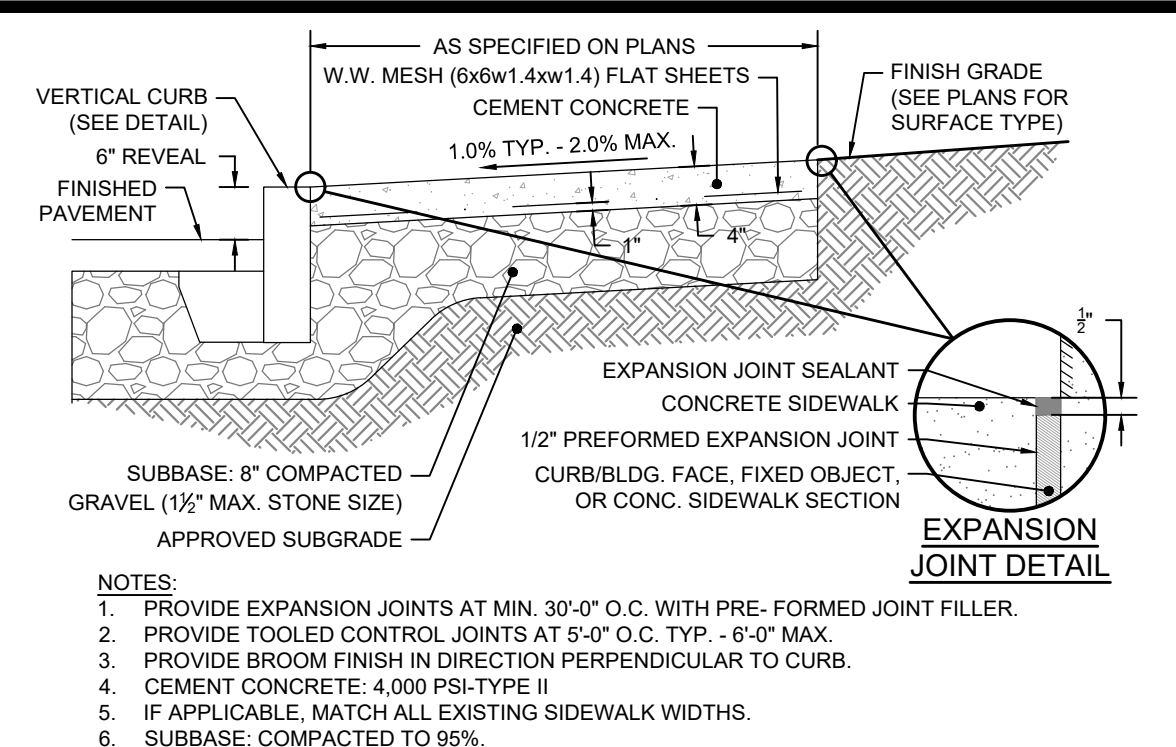
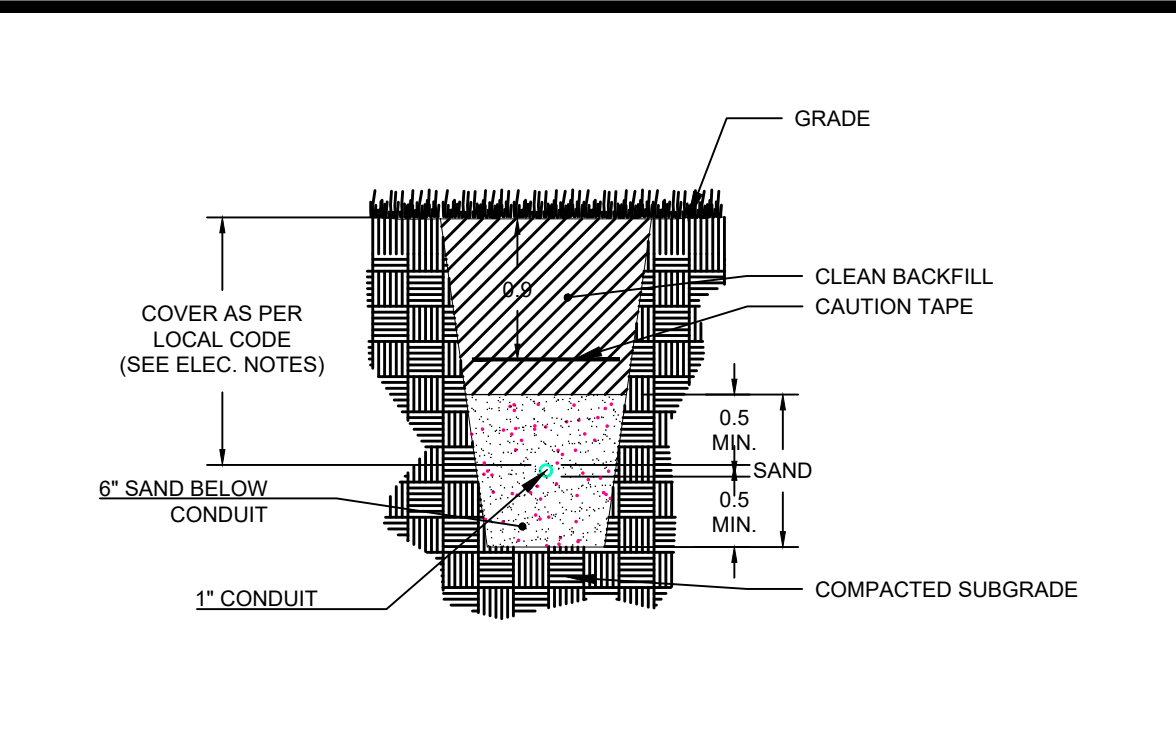
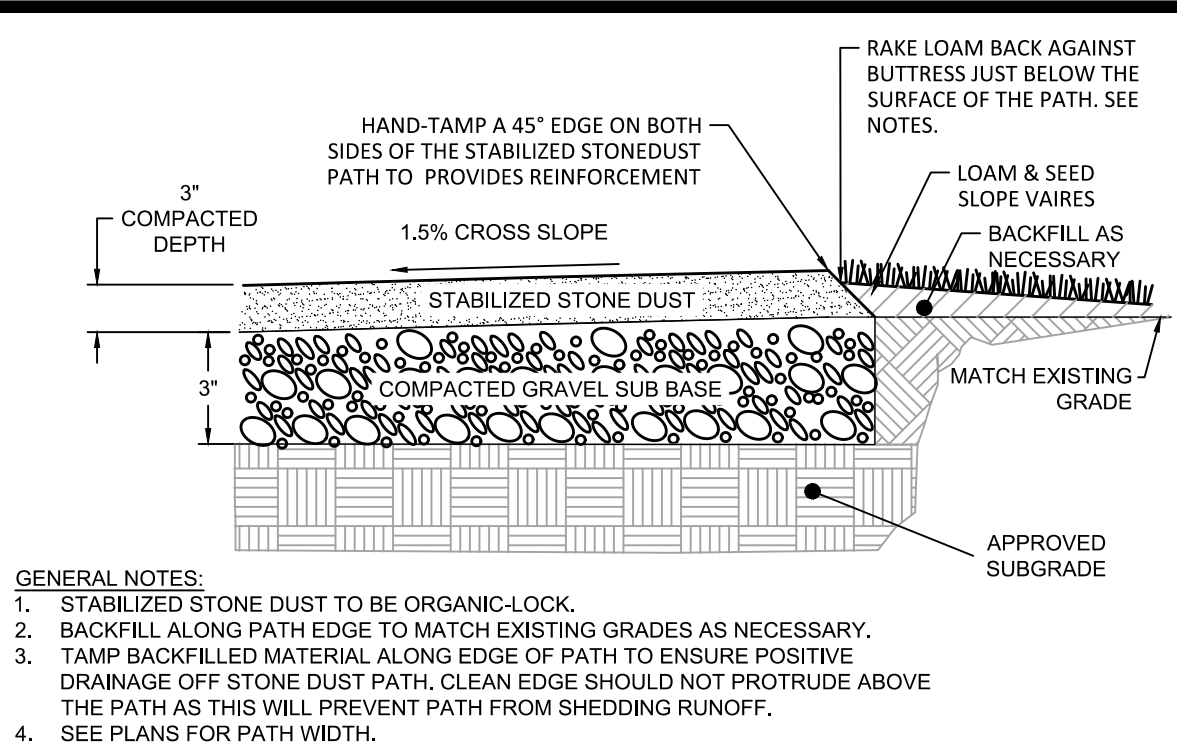
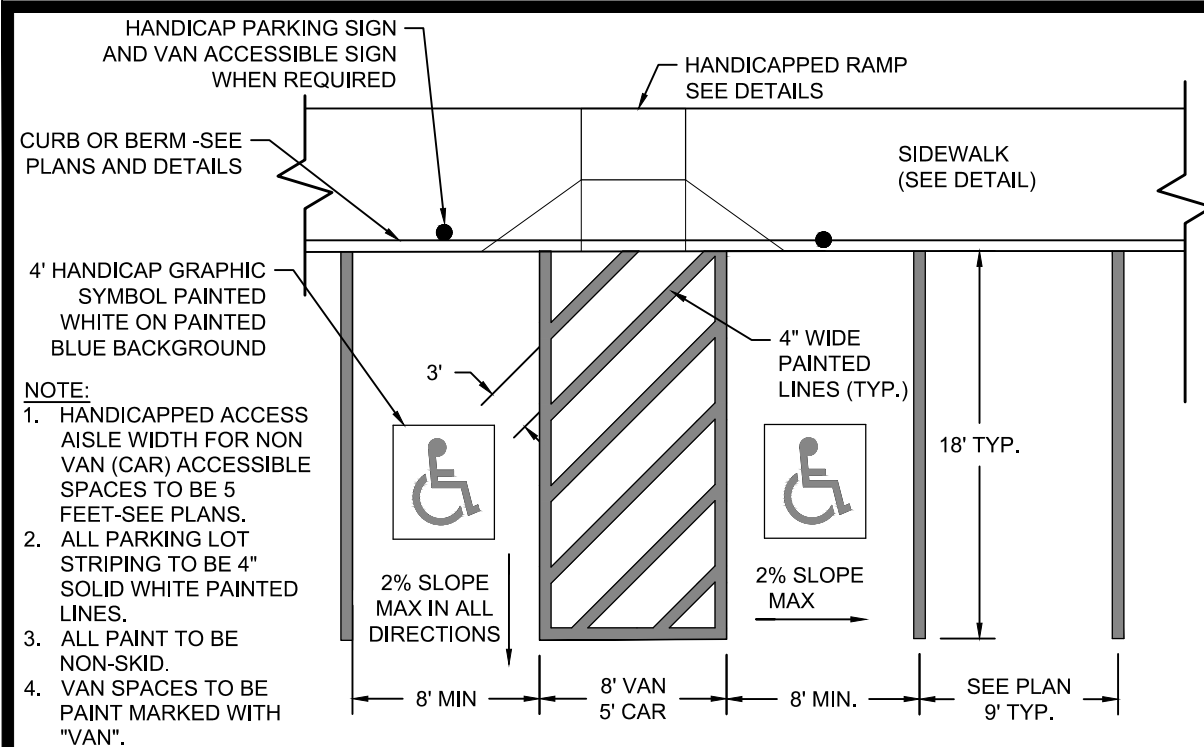
- FITTING LIST (FROM CAP SIDE):**
- 6" NAT'L HOSE THREAD ADAPTER WITH CAP
  - 1 1/2" MIN. 5" SCHEDULE 40 NIPPLE
  - 8"x5" ECCENTRIC REDUCER
  - 8" 45 DEGREE ELBOW
  - 8" NIPPLE AS NEEDED
  - 8" 45 DEGREE ELBOW



**DRAINAGE-WATERMAIN CROSSING DETAIL**  
NOT TO SCALE

| <p><b>Revisions</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | No.  | Date                  | By          | Description |  |  |  |  | <p><b>Checked By:</b> _____<br/><b>Drawn By:</b> _____<br/><b>Designed By:</b> _____<br/><b>Date:</b> DECEMBER 2023</p> | <p><b>Horsley Witten Group, Inc.</b><br/>Sustainable Environmental Solutions<br/>90 Route 6A<br/>Sandwich, MA 02563<br/>508-833-6600 voice<br/>508-833-3150 fax</p> |
|---|--|-----------------------|-------------|-------------|--|--|--|--|---|---|
| No.   | Date   | By                    | Description |             |  |  |  |  |   |   |
|   |  |                       |             |             |  |  |  |  |   |   |
| <p><b>401 STATE ROAD HOUSING DEVELOPMENT</b><br/>MAP 11, LOT 18<br/>WEST TISBURY, MASSACHUSETTS</p>   |  |                       |             |             |  |  |  |  |   |   |
| <p><b>UTILITY PLAN</b></p>  |  |                       |             |             |  |  |  |  |   |   |
| <p>Prepared For:<br/><b>Island Housing Trust</b><br/>P.O. Box 779<br/>West Tisbury, MA 02715<br/>Phone: _____<br/>Fax: _____</p>  | <p>Survey Provided By:<br/><b>HorsleyWitten Group, Inc.</b><br/>90 Route 6A, Unit 1<br/>Sandwich, MA 02563<br/>Phone: (508) 833-6600<br/>Fax: (508) 833-3150<br/>Date: JUNE 2023</p> |                       |             |             |  |  |  |  |   |   |
| <p><b>DRAFT NOT FOR CONSTRUCTION</b></p>  |  |                       |             |             |  |  |  |  |   |   |
| <p>Project Number: 23063</p>  |  | <p>Sheet: 7 of 11</p> |             |             |  |  |  |  |   |   |
| <p>Sheet Number: <b>C - 7</b></p>   |  |                       |             |             |  |  |  |  |   |   |

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**Revisions**

| No. | Date | By | Description |
|-----|------|----|-------------|
|     |      |    |             |

**Horsley Witten Group, Inc.**  
Sustainable Environmental Solutions  
50 Route 6A  
Sandwich, MA 02563  
508-833-6600 voice  
508-833-3150 fax

**401 STATE ROAD HOUSING DEVELOPMENT**  
MAP 11, LOT 18  
WEST TISBURY, MASSACHUSETTS

**SITE DETAILS (1)**

Prepared For: **Island Housing Trust**  
P.O. Box 779  
West Tisbury, MA 02575  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_

Survey Provided By: **HorsleyWitten Group, Inc.**  
90 Route 6A, Unit 1  
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Phone: (508) 833-6600  
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Date: JUNE 2023

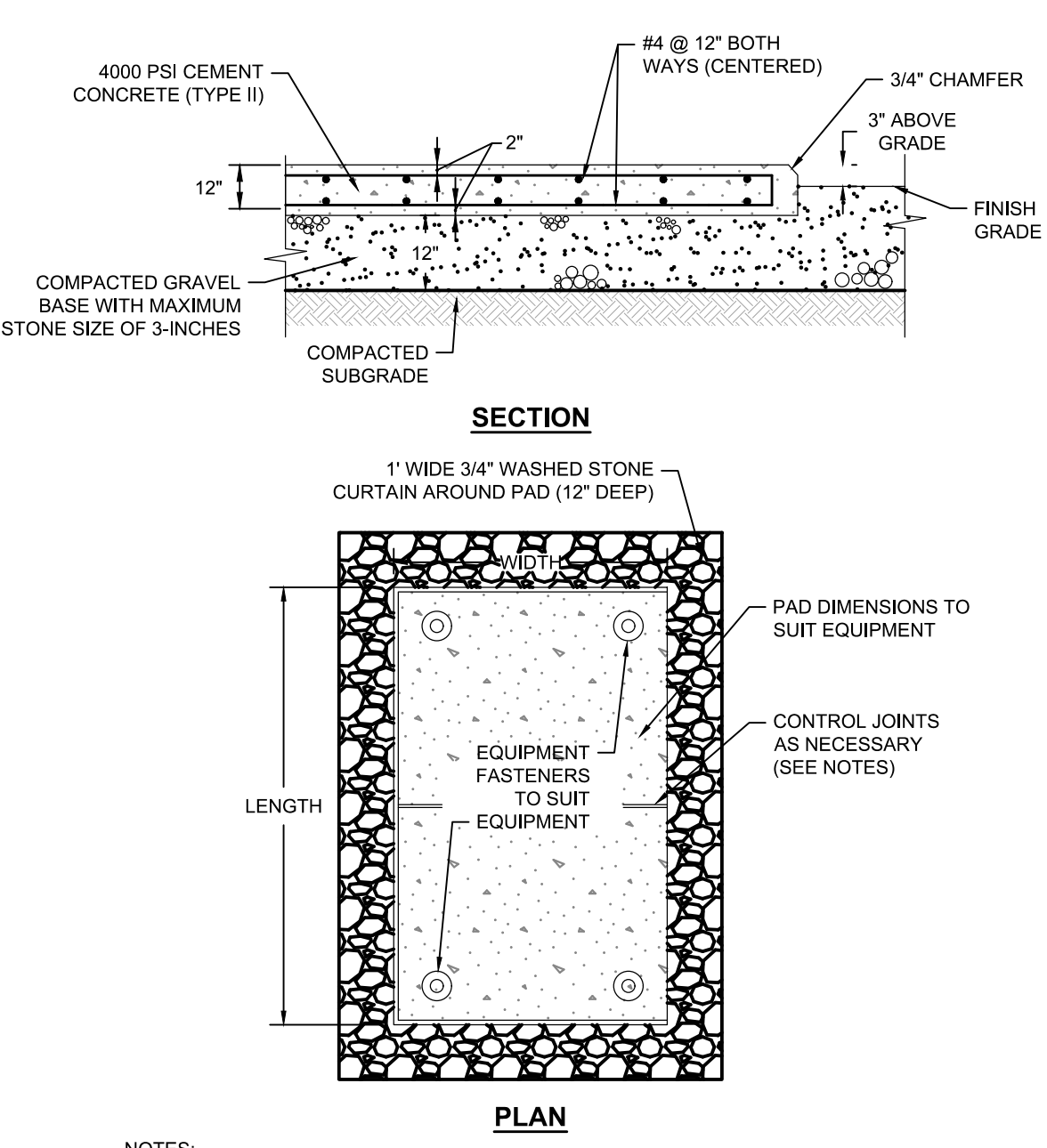
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Project Number: 23063 Sheet: 8 of 11  
Sheet Number: C-8

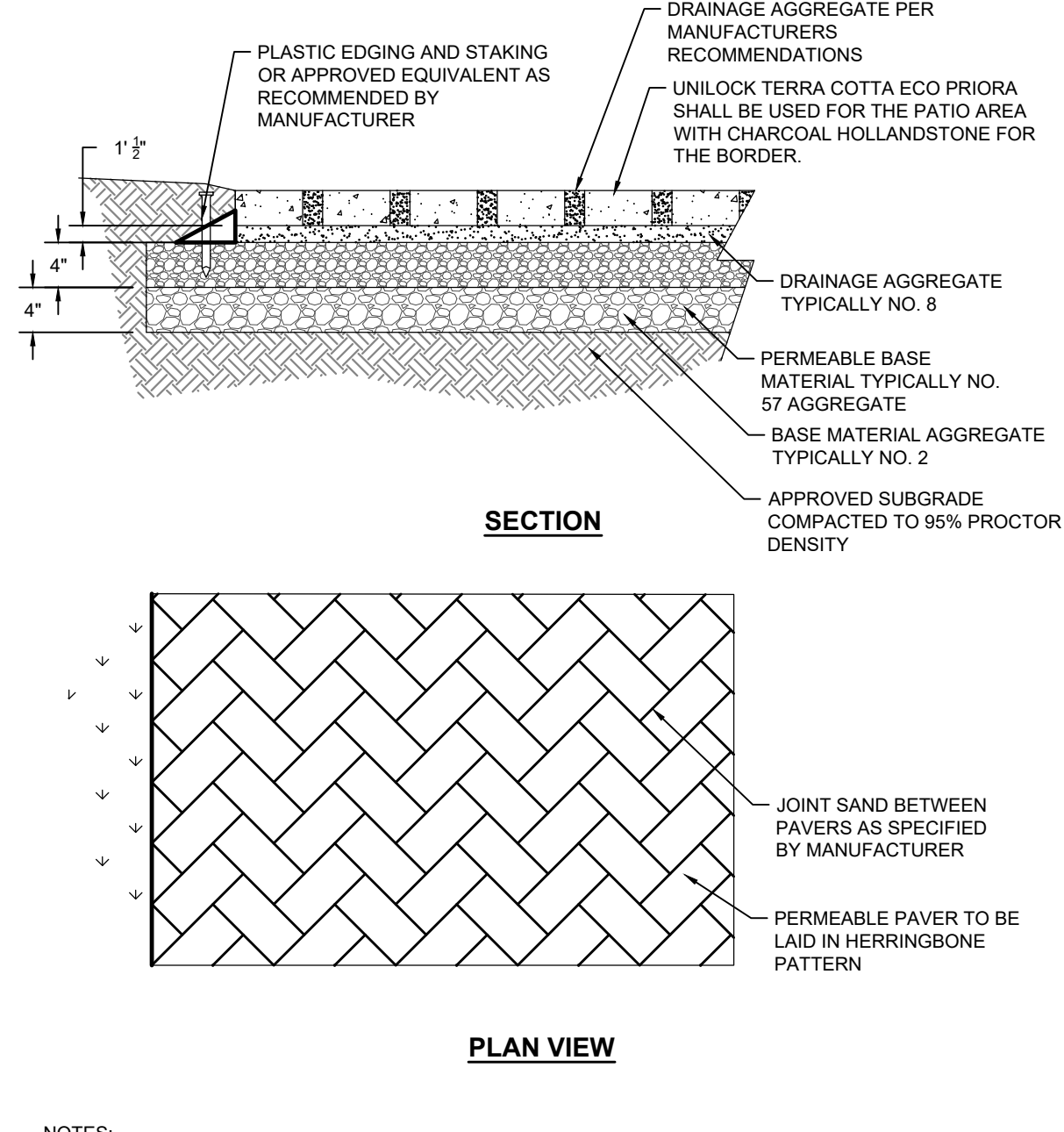


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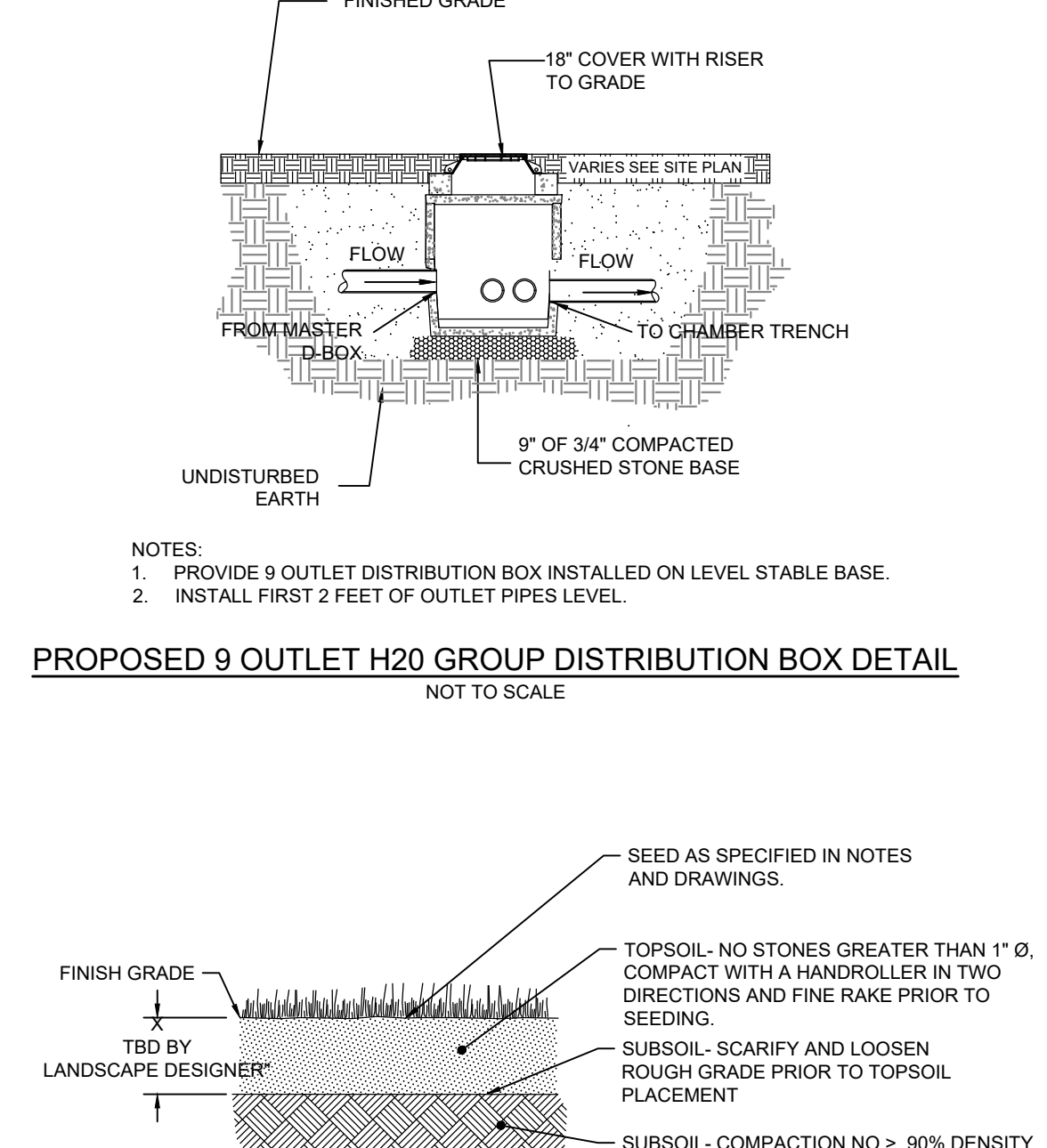
- NOTES:  
1. CONCRETE PAD PROPOSED FOR ALL ABOVE GROUND STORAGE TANKS AND GENERATORS. ALL GENERATORS TO BE EQUIPPED WITH FULL ENCLOSURES.  
2. LENGTH AND WIDTH TO SUIT MANUFACTURER'S EQUIPMENT WITH THE PAD EXTENDING A MINIMUM 1.5' OUTSIDE THE OUTER EDGE OF THE TANK AND/OR GENERATOR ENCLOSURE (SEE SITE PLAN FOR APPROX. SIZE).  
3. PROVIDE TOoled CONTROL JOINTS AT 6-FOOT INTERVALS ACROSS SURFACE.  
4. PROVIDE BROOM FINISH TO SURFACE AND 3/4" CHAMFER TO ALL EDGES.  
5. FENCE TO BE INSTALLED AROUND PAD WHEN SHOWN IN THE PLANS IN CONFORMANCE WITH THE DETAILS.

**TYPICAL CONCRETE PAD DETAIL**  
NOT TO SCALE



- NOTES:  
1. EXCAVATE ANY UNSUITABLE, UNSTABLE OR UNCONSOLIDATED MATERIAL FROM SUBGRADE.  
2. COMPACT BASE TO 95% STANDARD PROCTOR DENSITY.  
3. FILL ANY DEPRESSIONS IN BASE WITH BASE MATERIAL.  
4. SCREEN BEDDING SAND LEVEL TO AN EVEN THICKNESS OF 1 TO 1 1/2 INCHES.  
5. PAVER COLOR AND PATTERN TO BE DETERMINED BY THE OWNER.

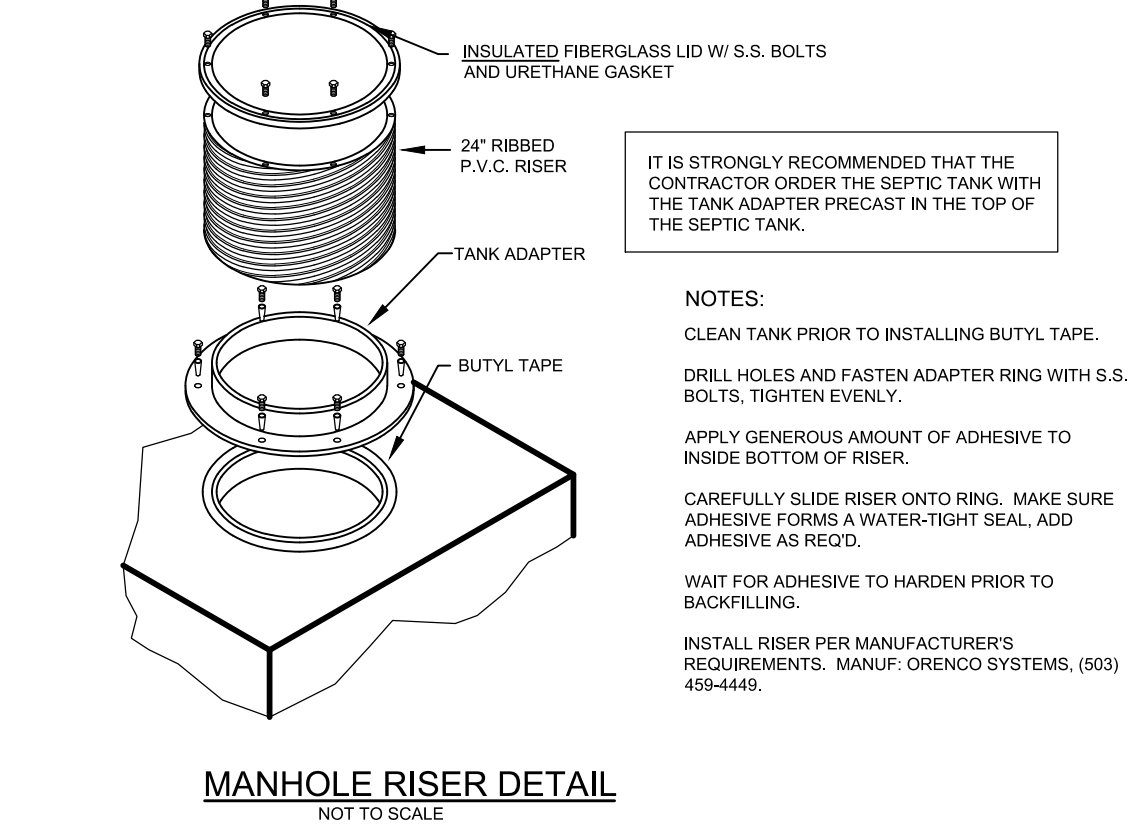
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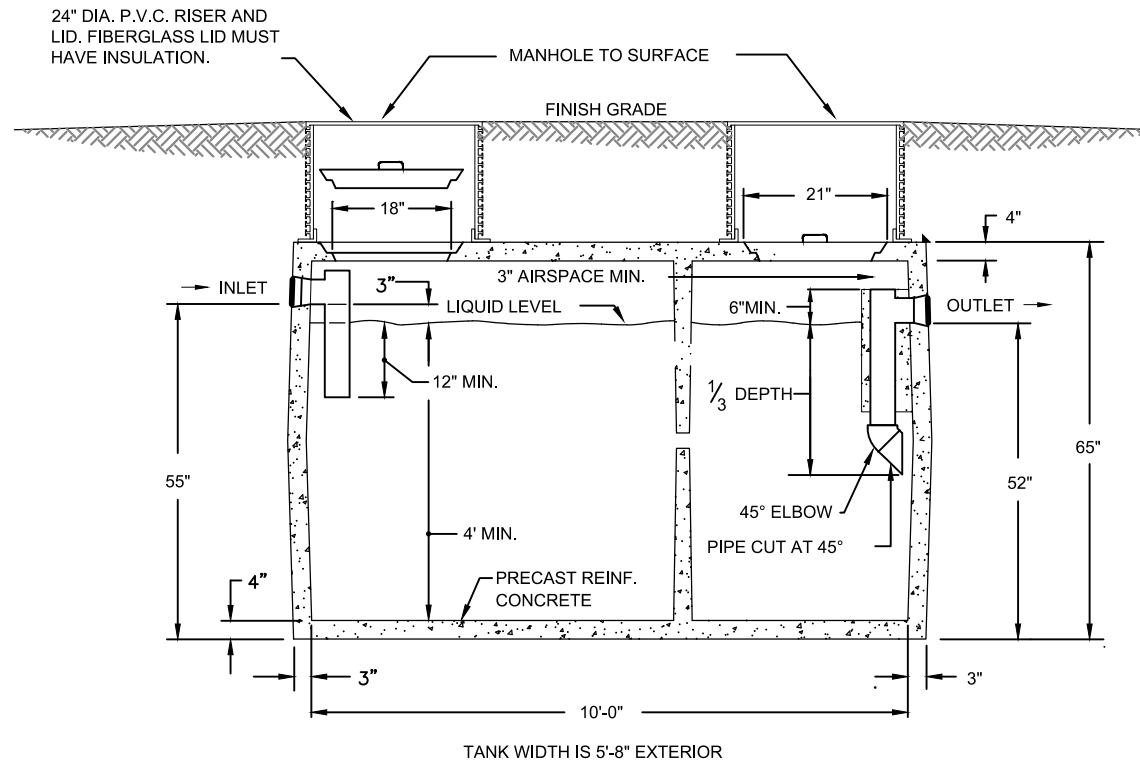
**PROPOSED 9 OUTLET H2O GROUP DISTRIBUTION BOX DETAIL**  
NOT TO SCALE

- NOTES:  
1. SEE LANDSCAPE GRADING SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.  
2. CONFIRM SUBGRADES ARE CORRECT AND POSITIVE DRAINAGE IS MAINTAINED PRIOR TO PLACEMENT OF TOPSOIL.  
3. NOTIFY ENGINEER/LANDSCAPE ARCHITECT FOR REVIEW OF SUBGRADE PRIOR TO PLACEMENT OF THE TOPSOIL.

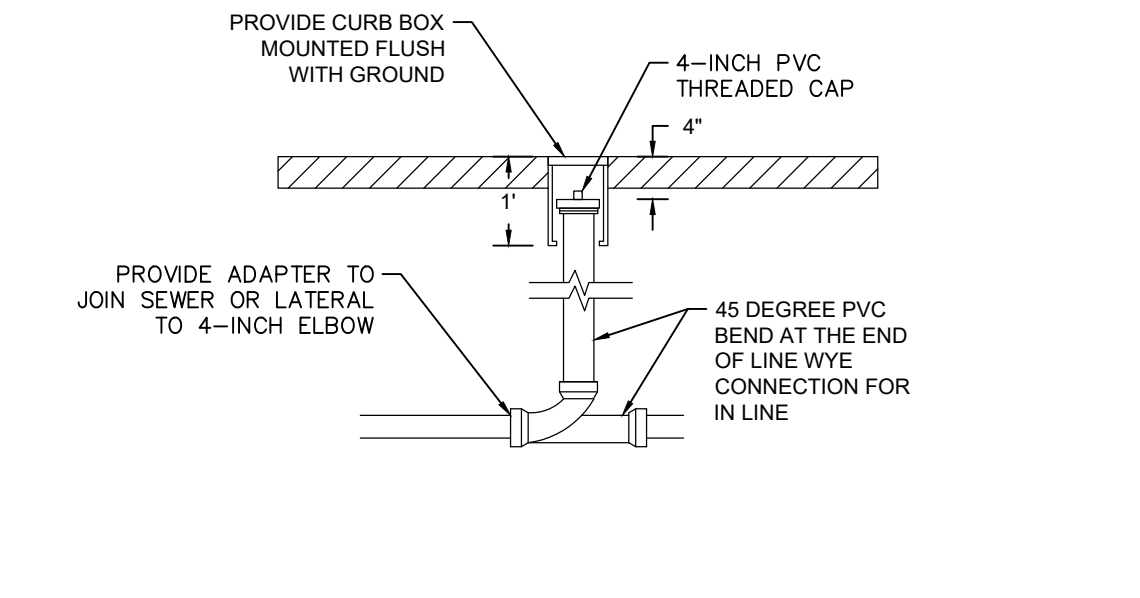
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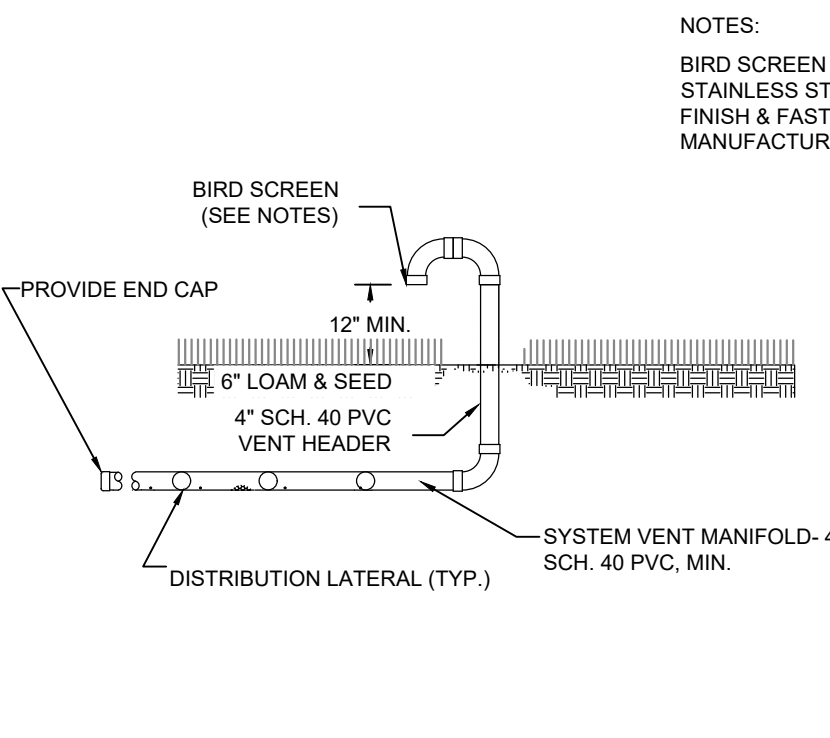
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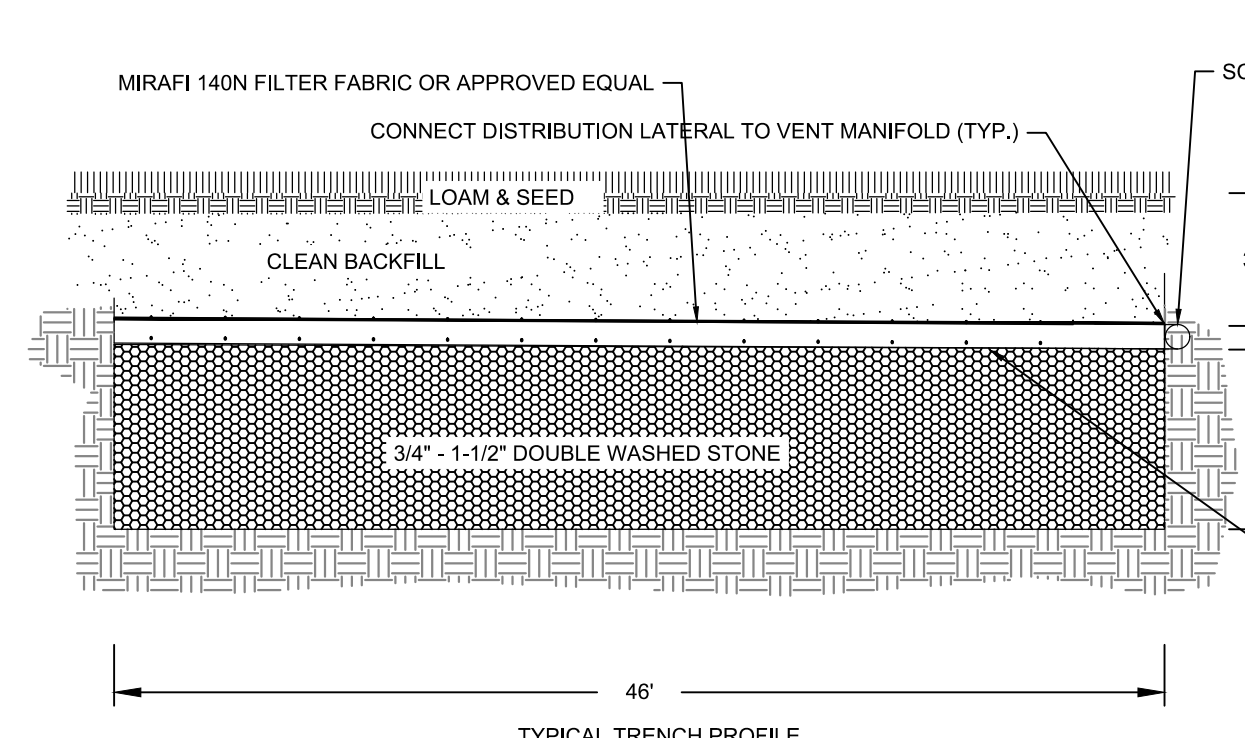
**1,500 GALLON TWO COMPARTMENT SEPTIC TANK**  
NOT TO SCALE



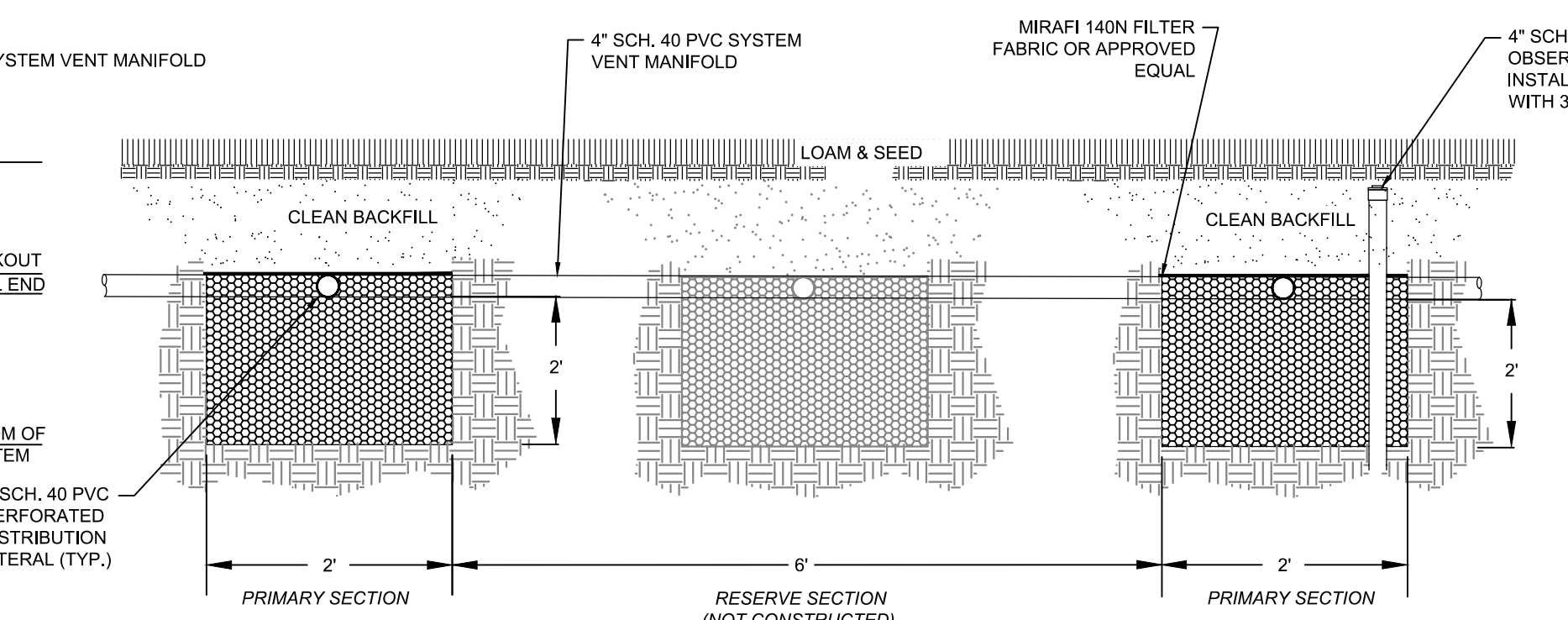
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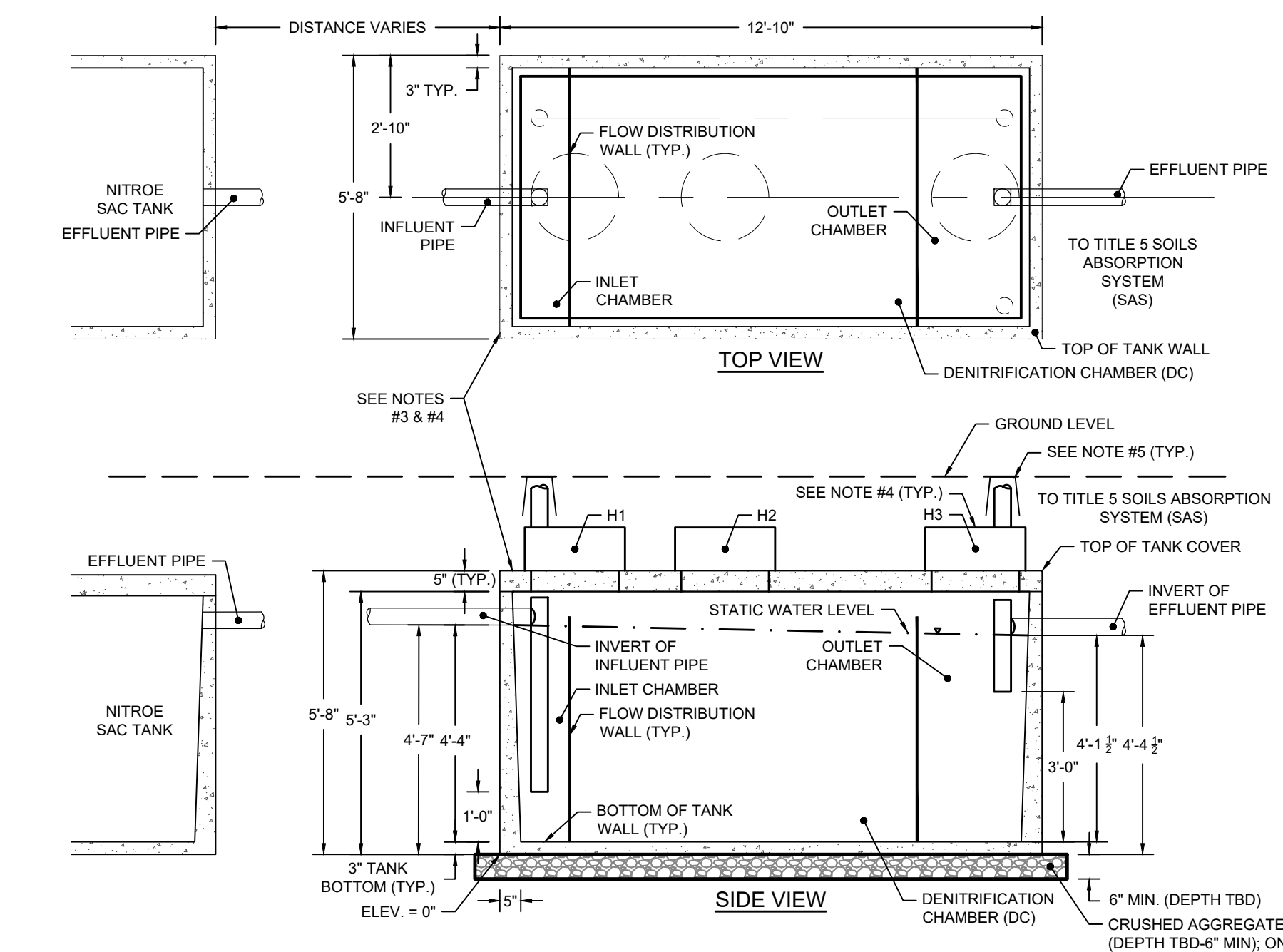
**TYPICAL SYSTEM VENT DETAIL**  
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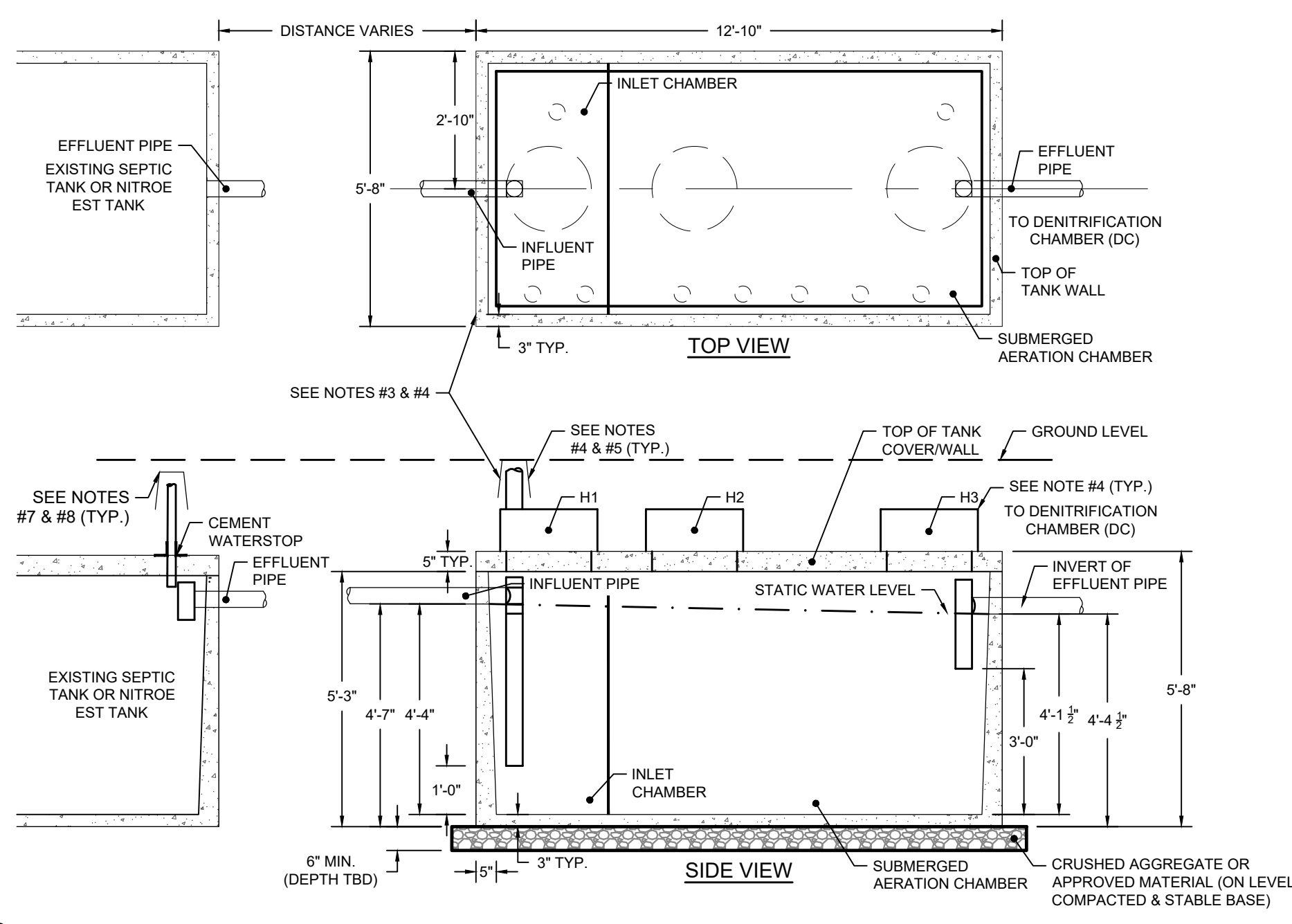
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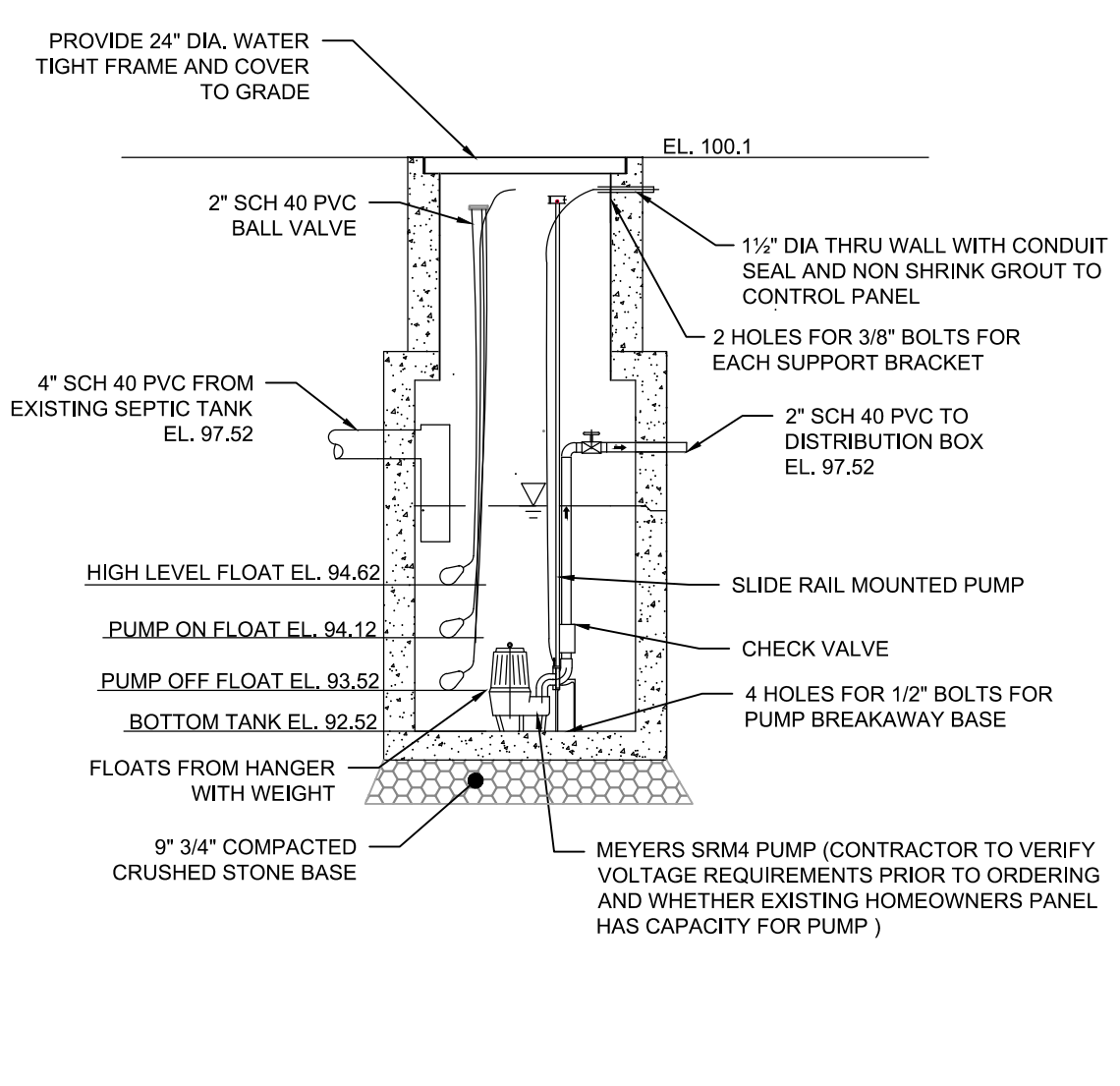
**LEACHING TRENCH DETAIL**  
NOT TO SCALE



- NOTES:  
1. ALL MEASUREMENTS WILL BE FROM OUTSIDE EDGE OF TANK TOP.  
2. CONFIRM ALL HOLE LOCATIONS PRIOR TO INSTALLATION.  
3. NITROE SAC TANK TOP WILL HAVE THREE 1-9" & MULTIPLE 4" ACCESS HOLES WITH RISERS & COVERS FOR MAINTENANCE & SAMPLING.  
4. FOR 2 1/2" HOLES, PROVIDE 2-2" ADS PIPE (CORRUGATED) WITH POLYLOK (OR EQUIVALENT) COVER (OR EQUIVALENT CONCRETE RISER & COVER) TO 6" BELOW GROUND SURFACE & SECURED TO TANK TOP.  
5. INSTALL 4" PIPE (3" BELOW GROUND SURFACE) WITH FERROCEMENT RUBBER CAP. INSTALL WITH 6" ROUND VALVE BOX & COVER WILL BE FLUSHED WITH GROUND SURFACE.  
6. HOLE H4 IS A 4" HOLE FOR AERATION TUBING & PULL CORDS. INSTALL 4" PIPE (6" BELOW GROUND SURFACE) WITH PVC CAP.  
7. FOR EXISTING SEPTIC TANK, PROVIDE 2" Ø SAMPLING PIPE THAT IS CEMENTED OR ANCHORED TO TANK TOP. EXTEND 2" BELOW TANK TOP & POSITION 6" TO 1'-0" FROM EDGE OF OUTLET END OF SEPTIC TANK OR IN SEPTIC TANK CONCRETE OUTLET COVER.  
8. ON TOP SIDE OF SEPTIC TANK, THE 2" Ø SAMPLING PIPE WILL EXTEND 2" BELOW GROUND SURFACE & HAVE A 6" Ø PLASTIC ROUND BOX & COVER AT GROUND SURFACE.



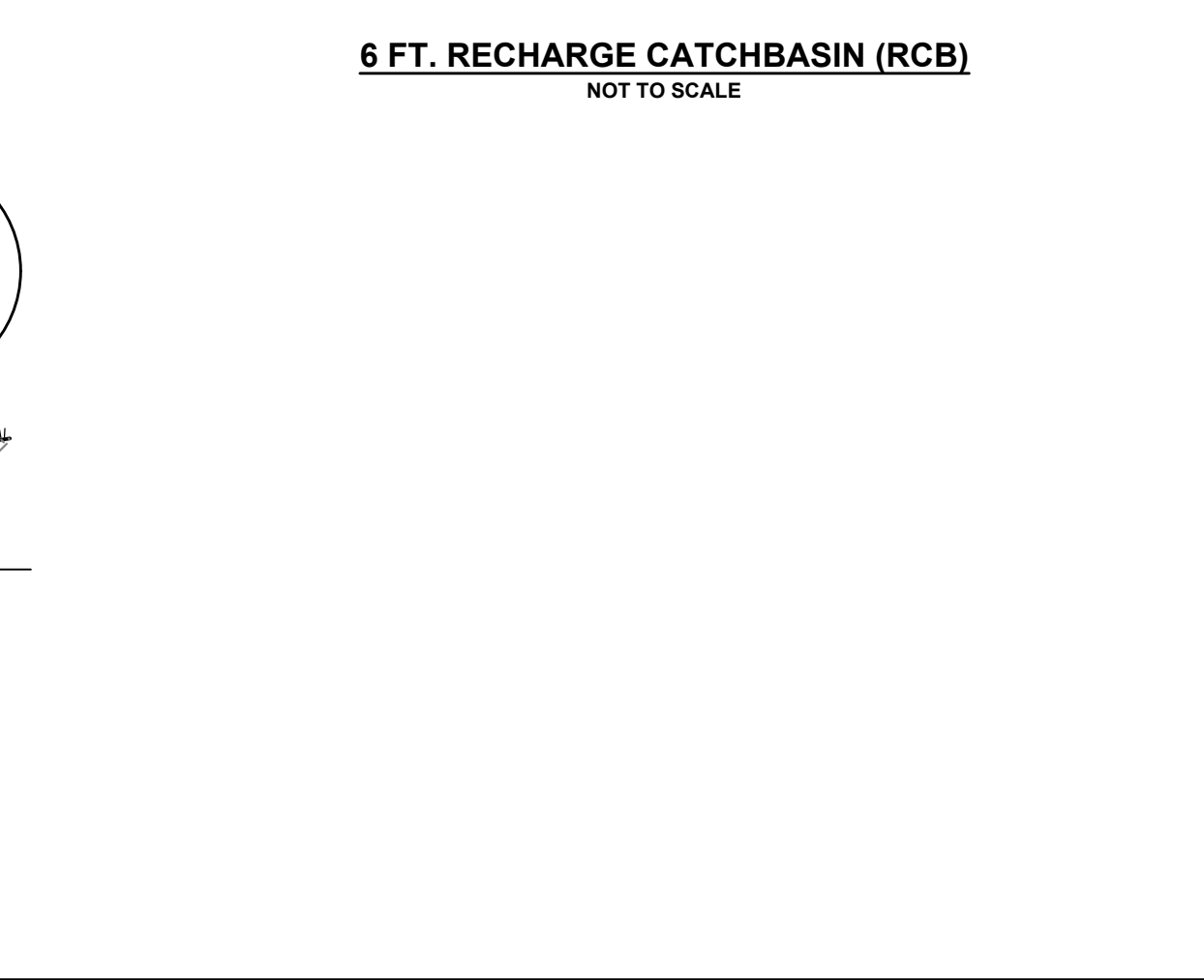
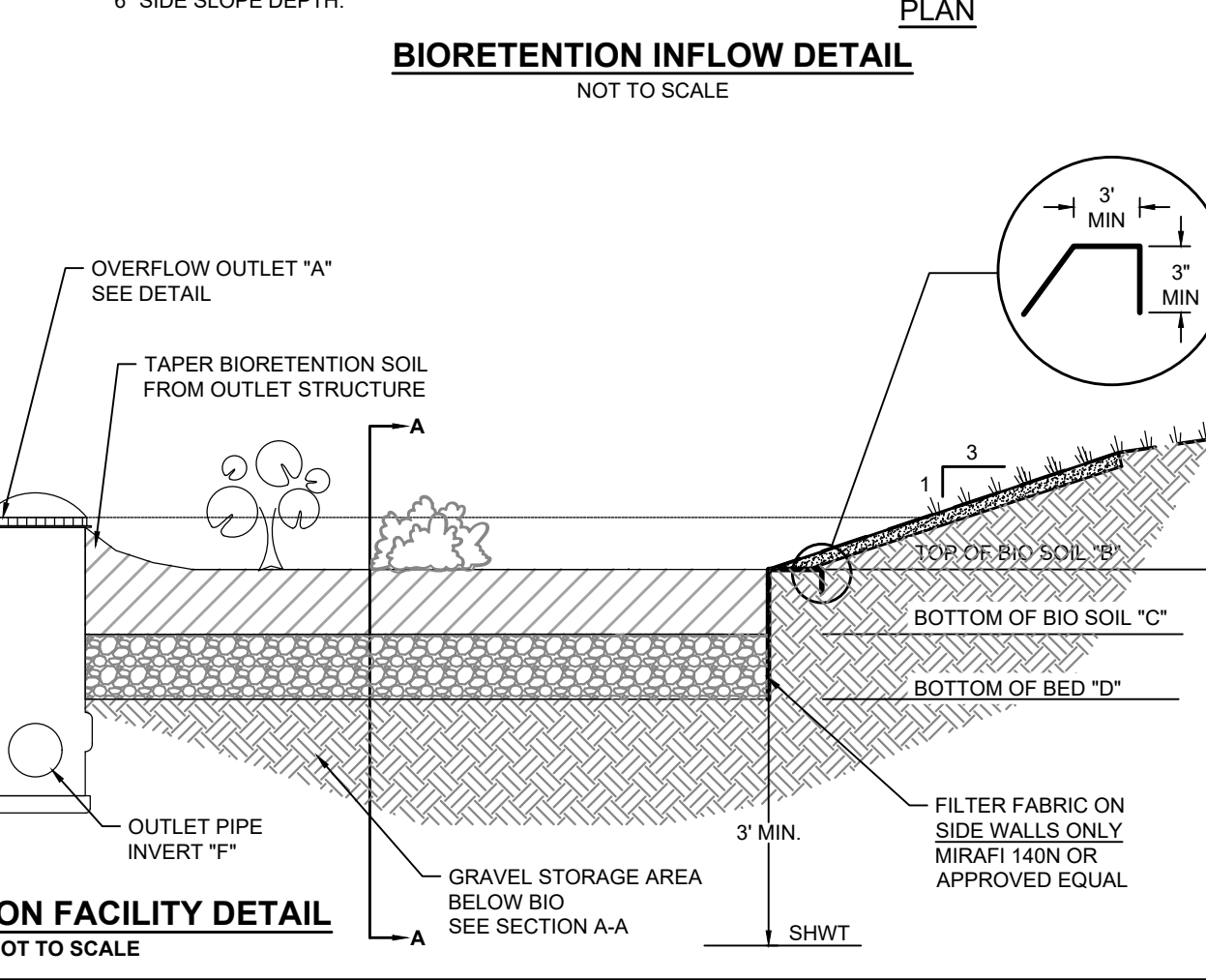
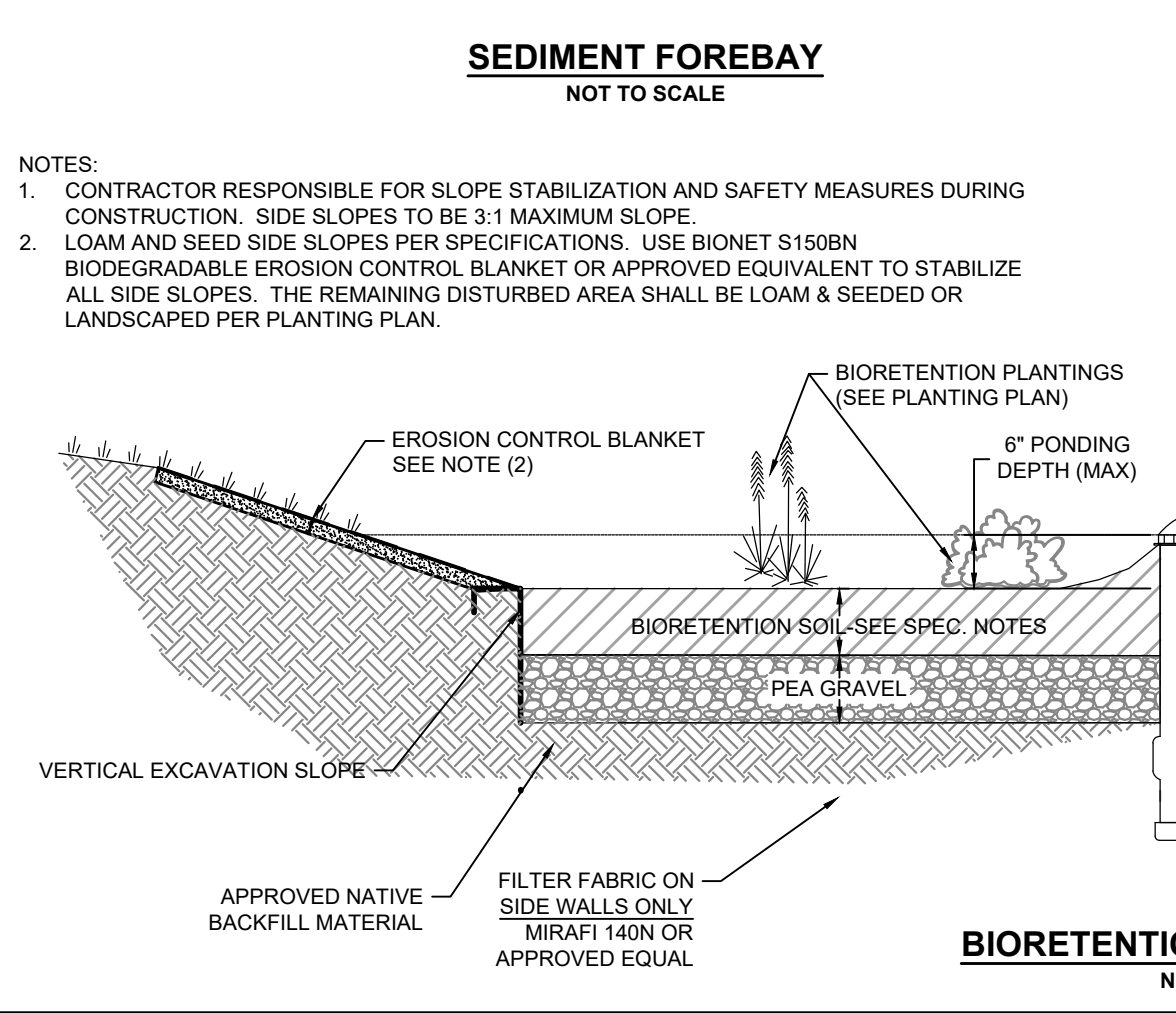
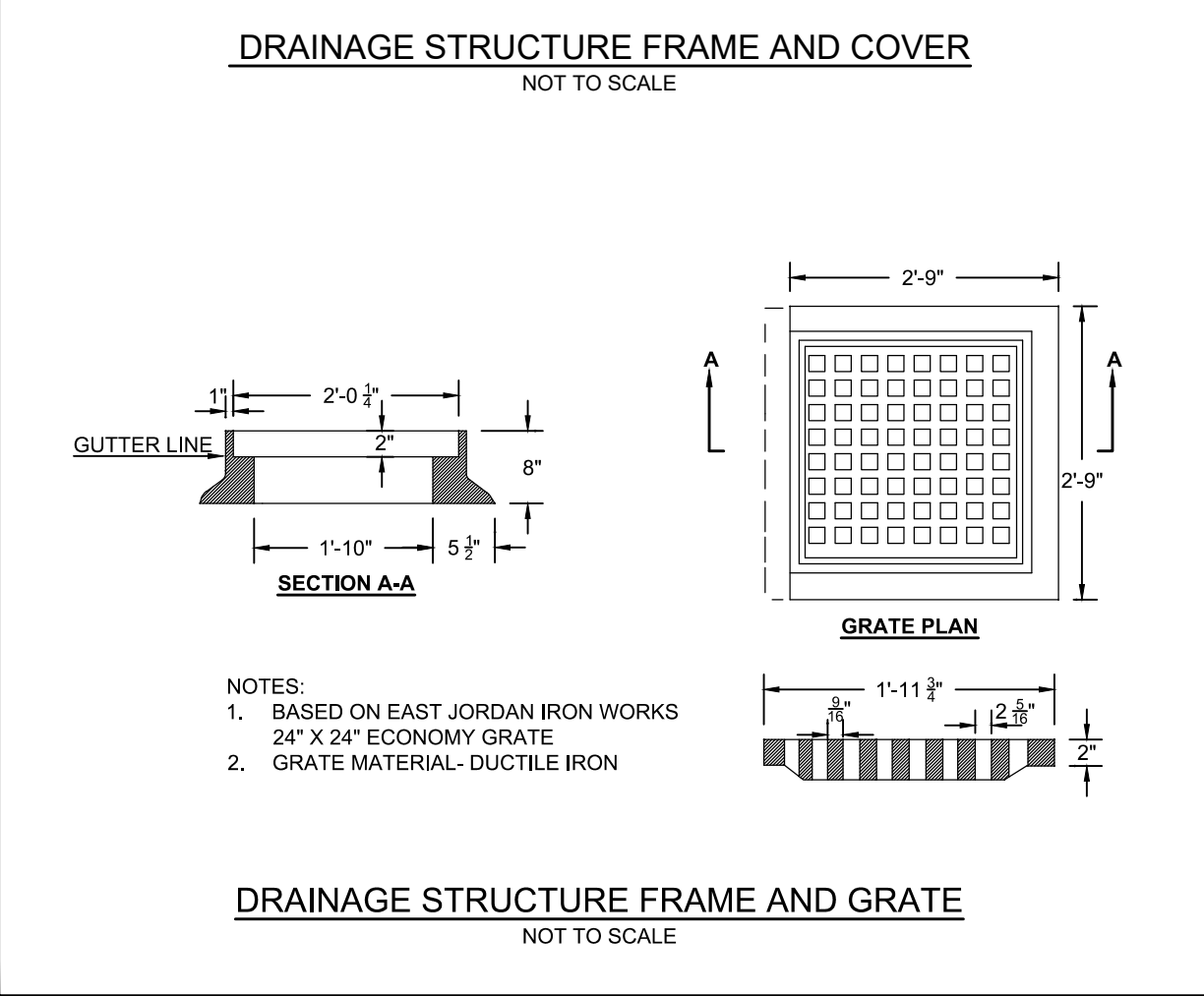
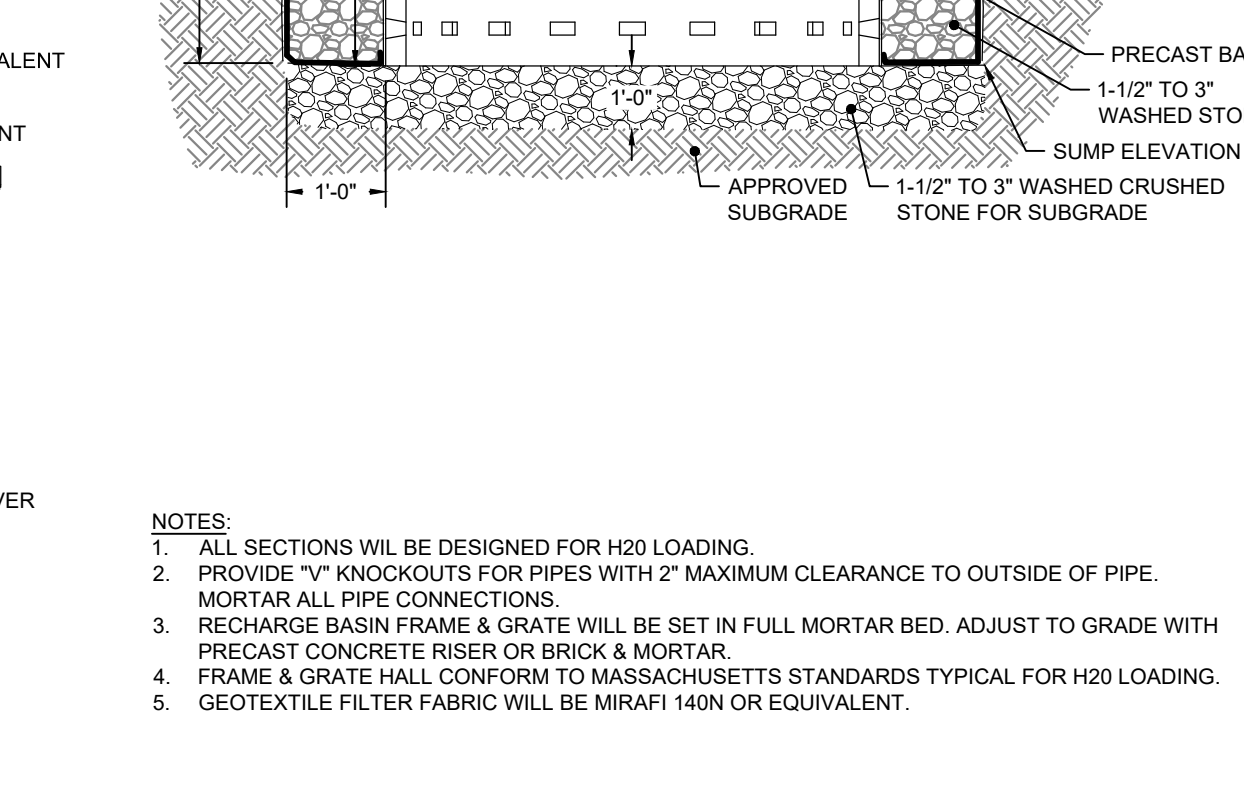
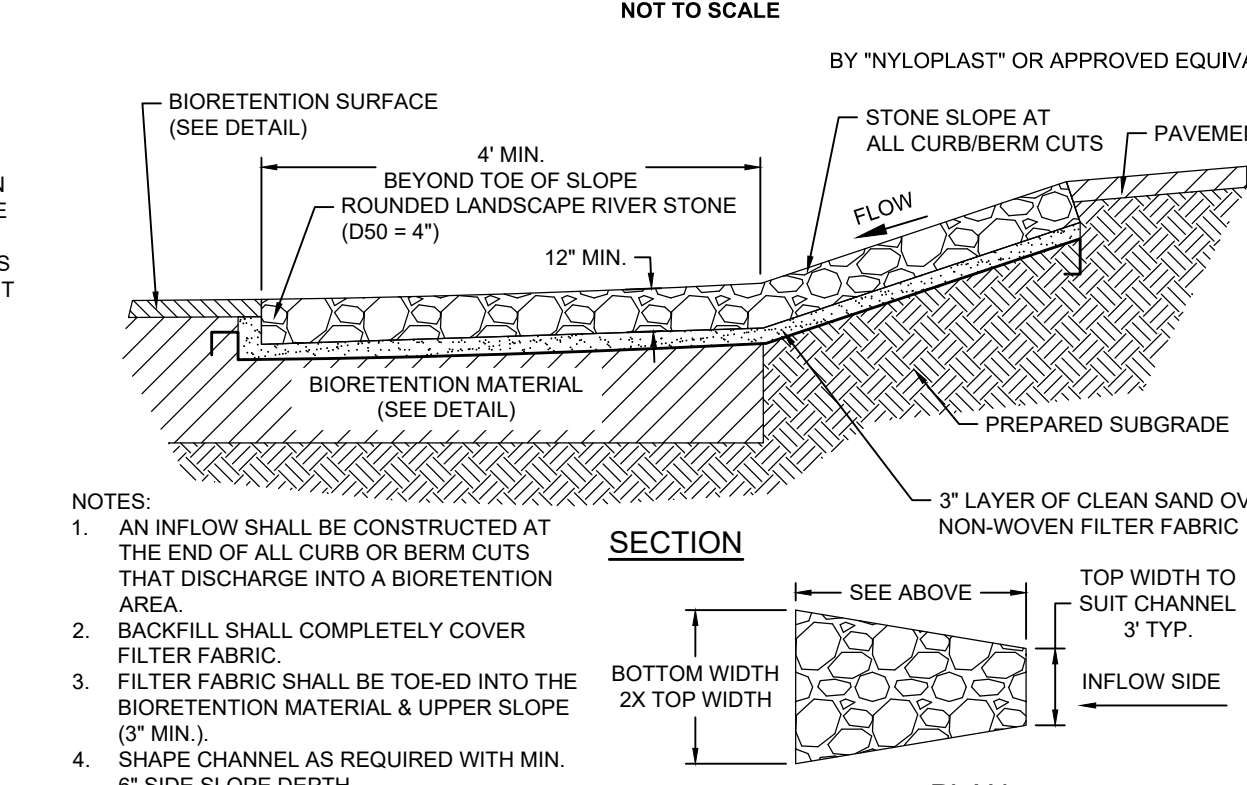
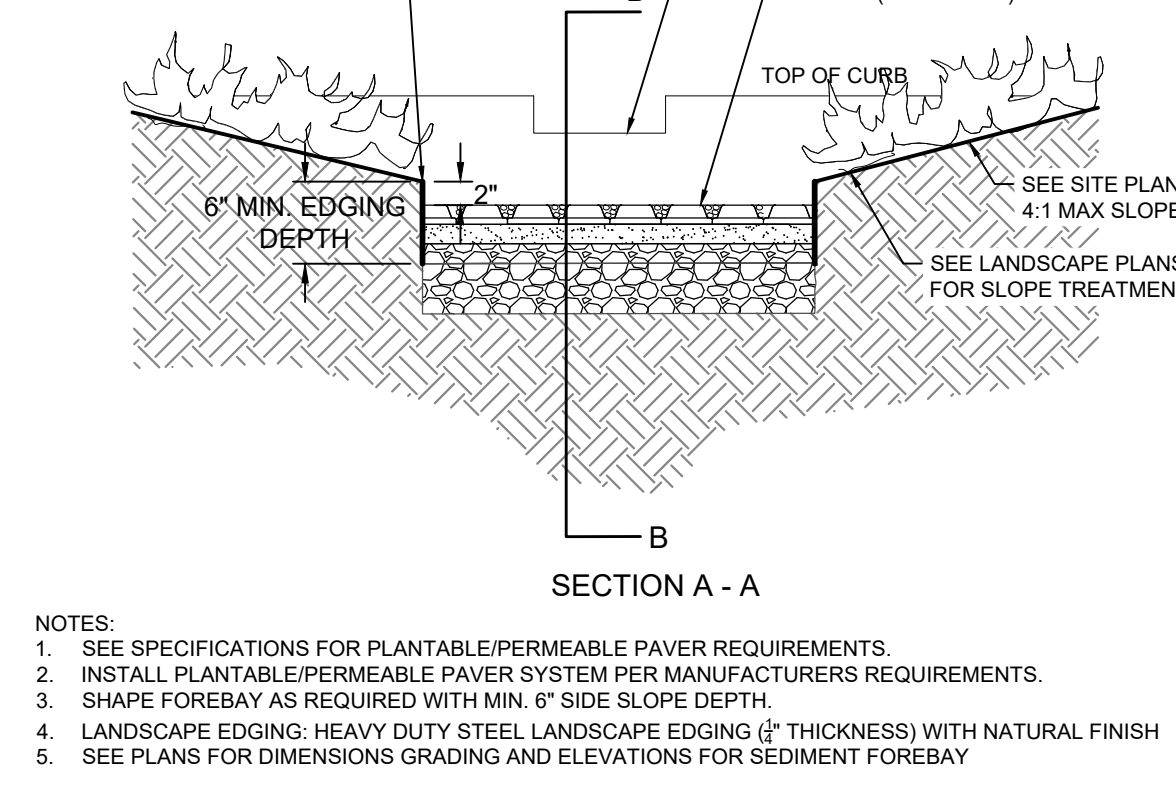
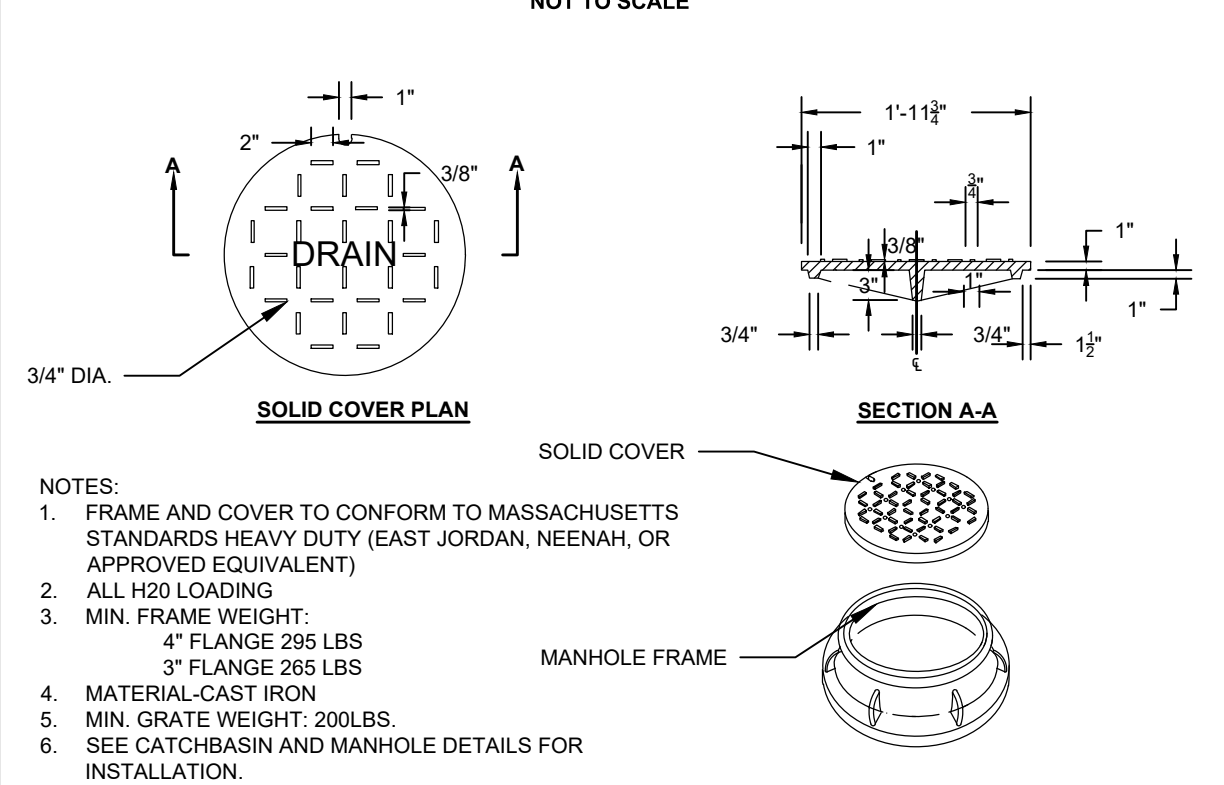
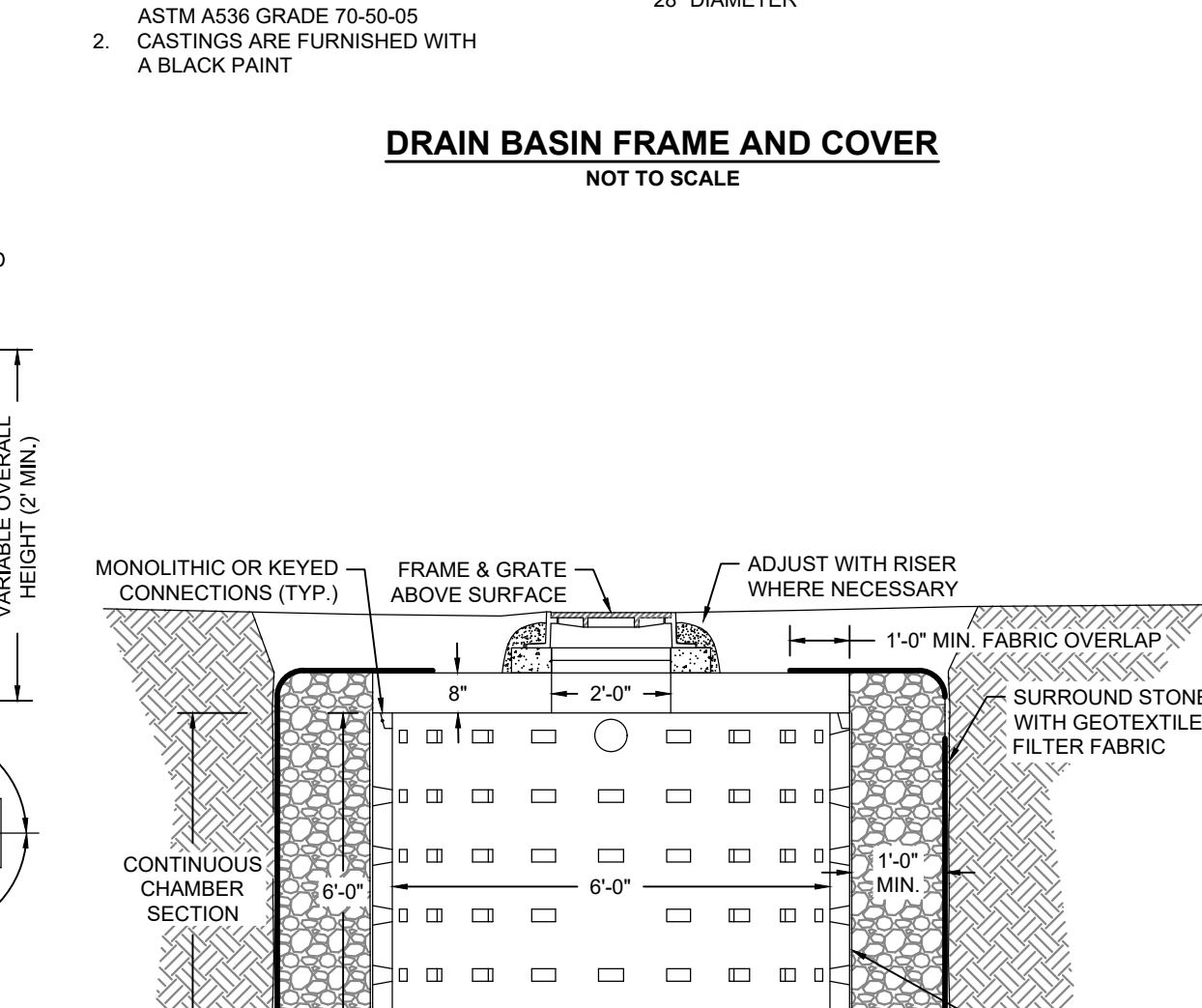
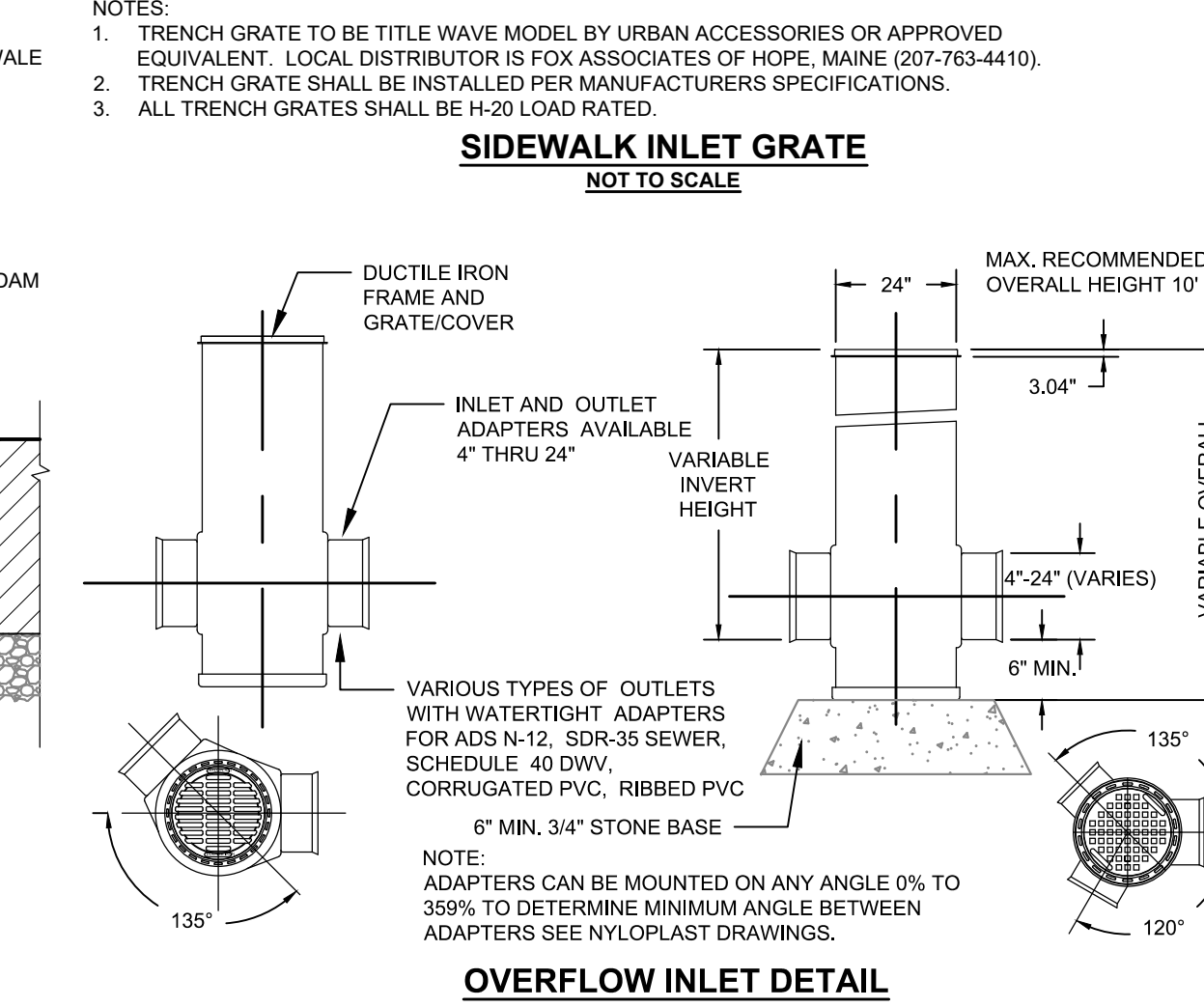
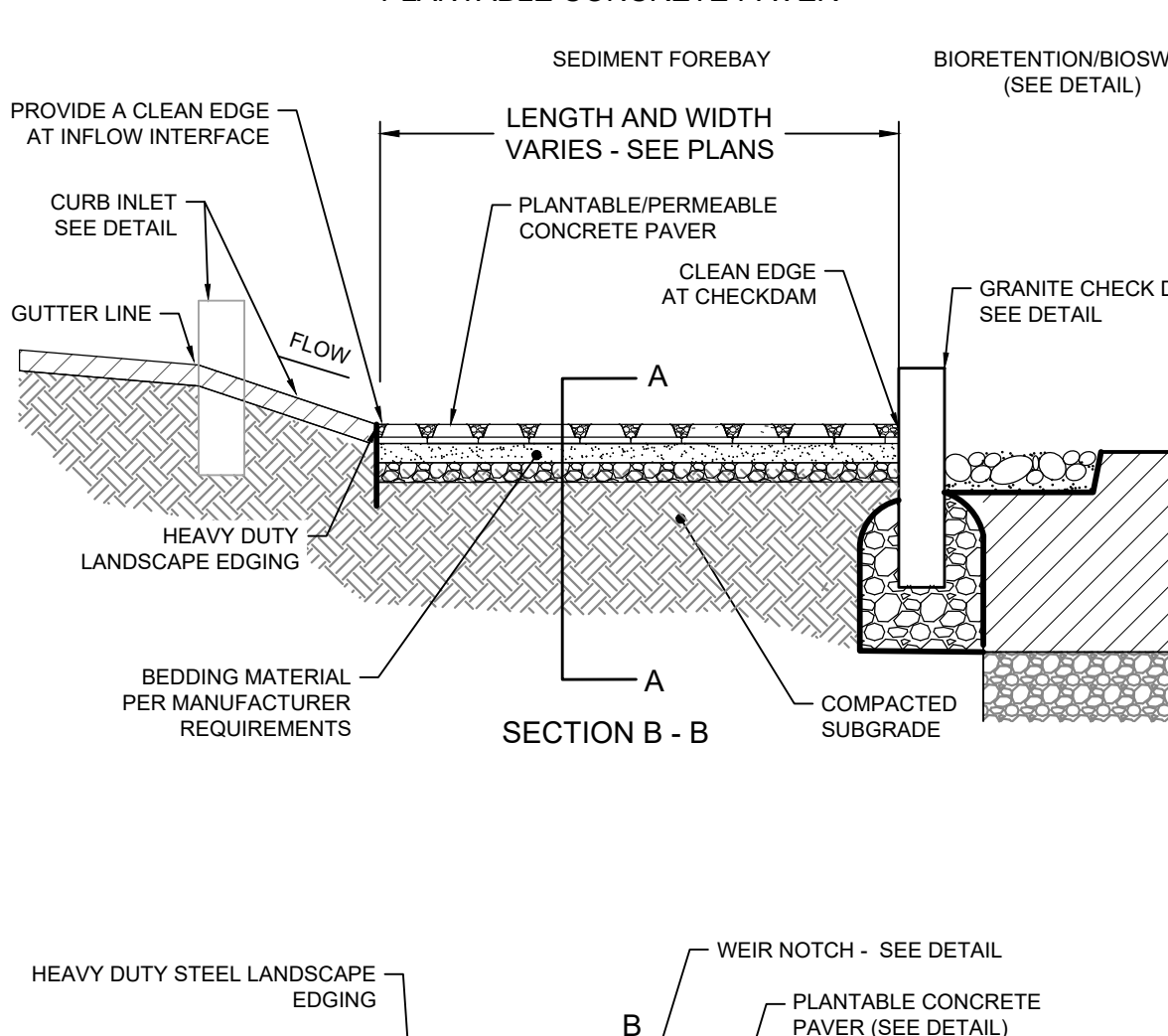
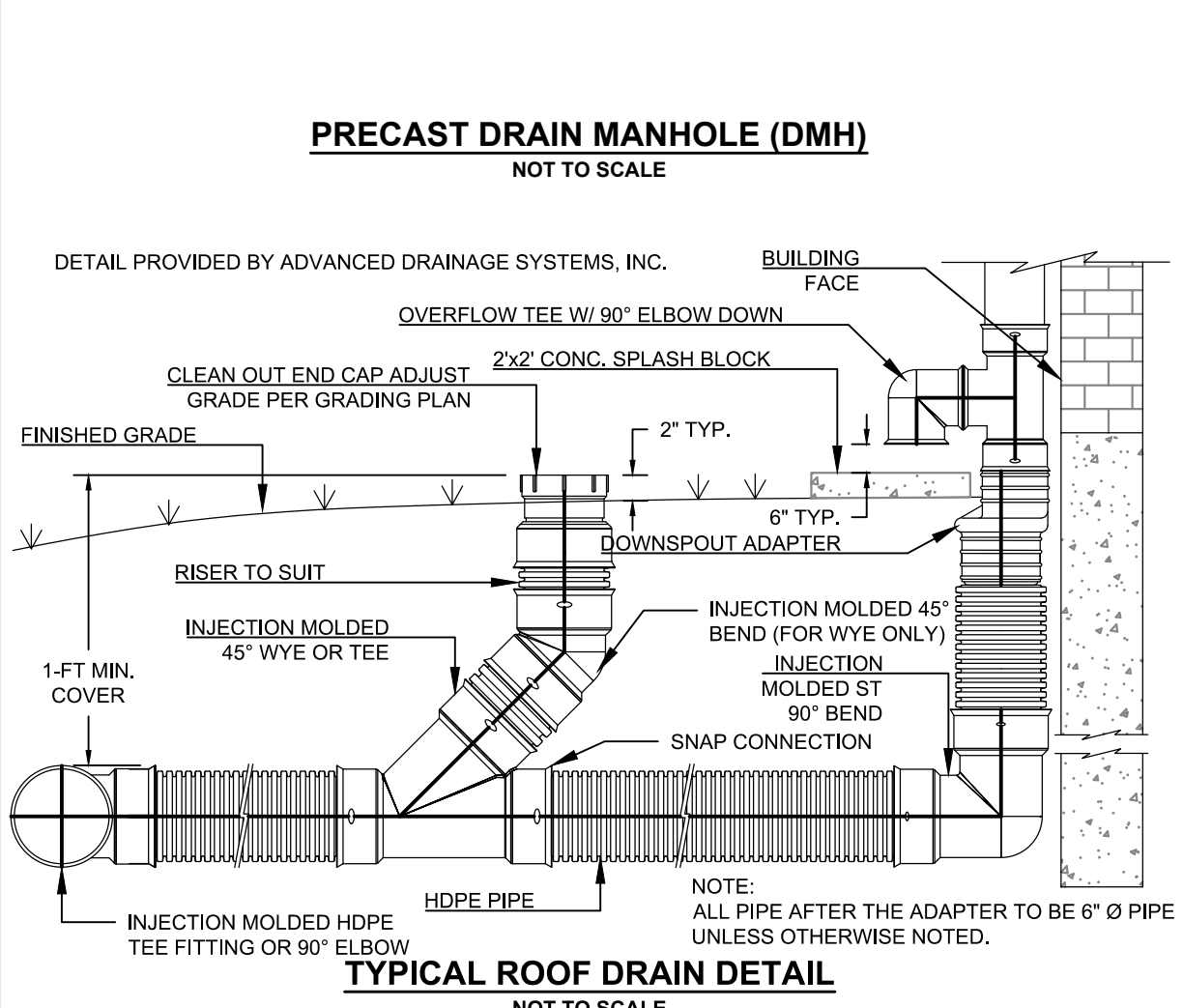
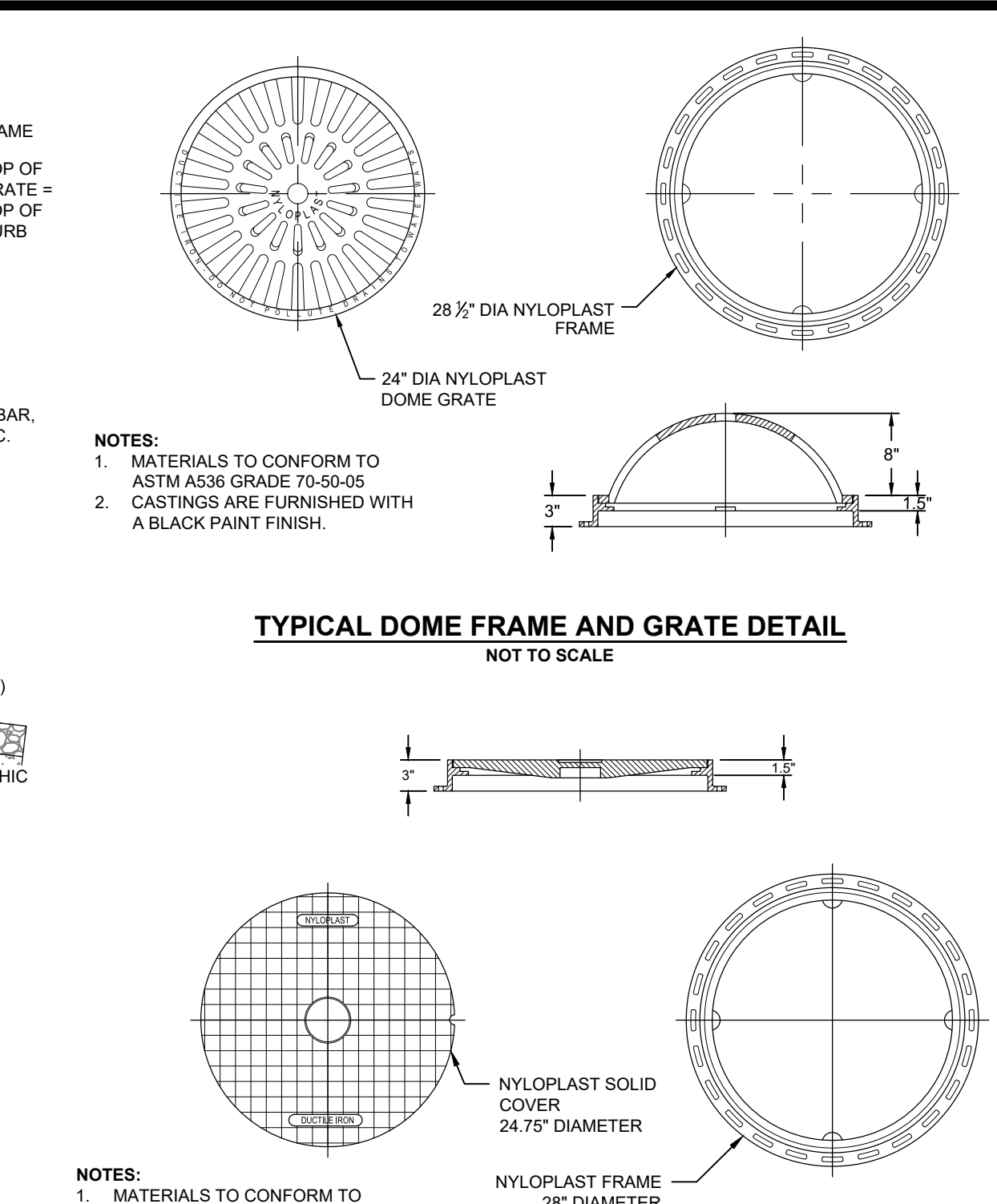
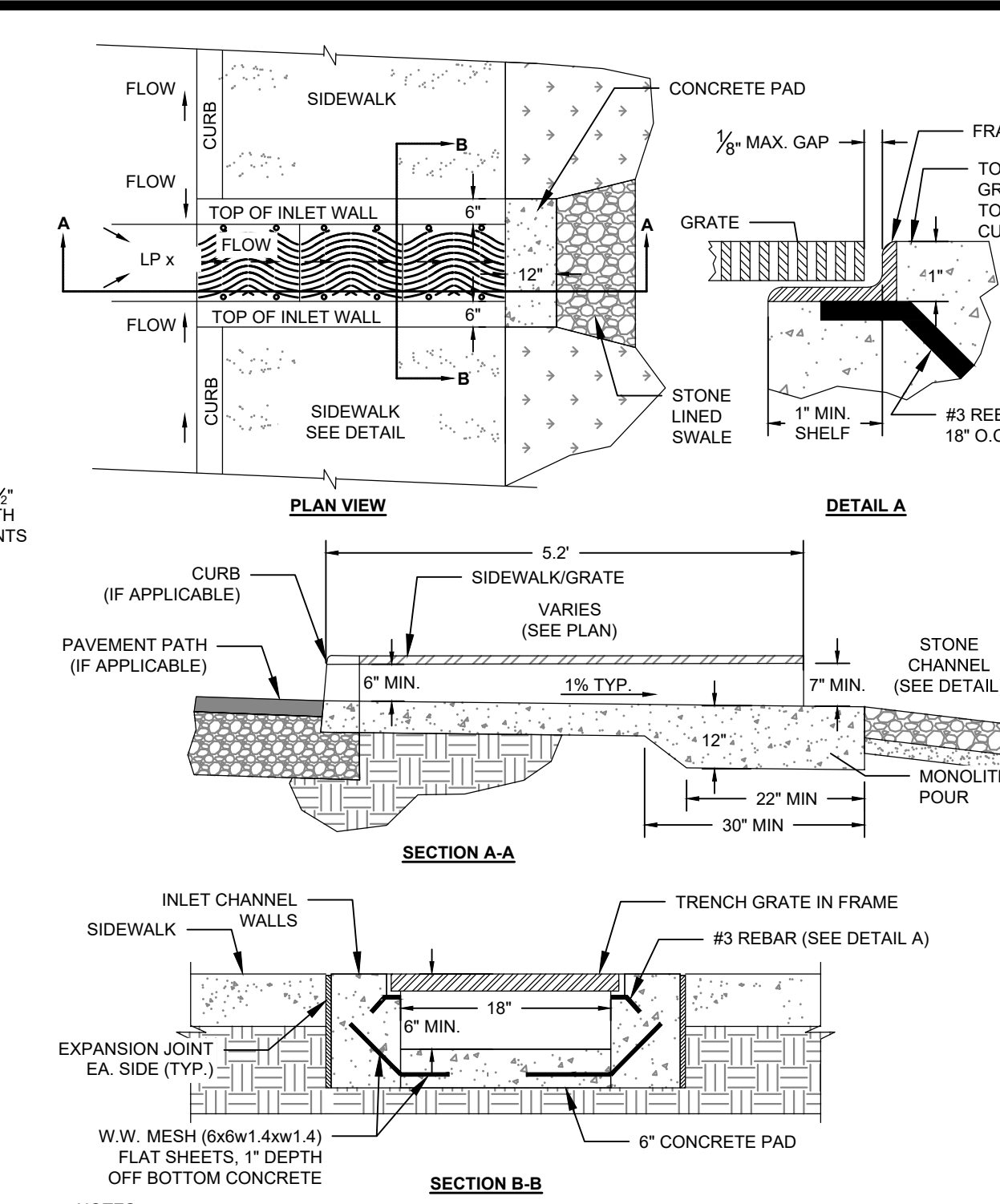
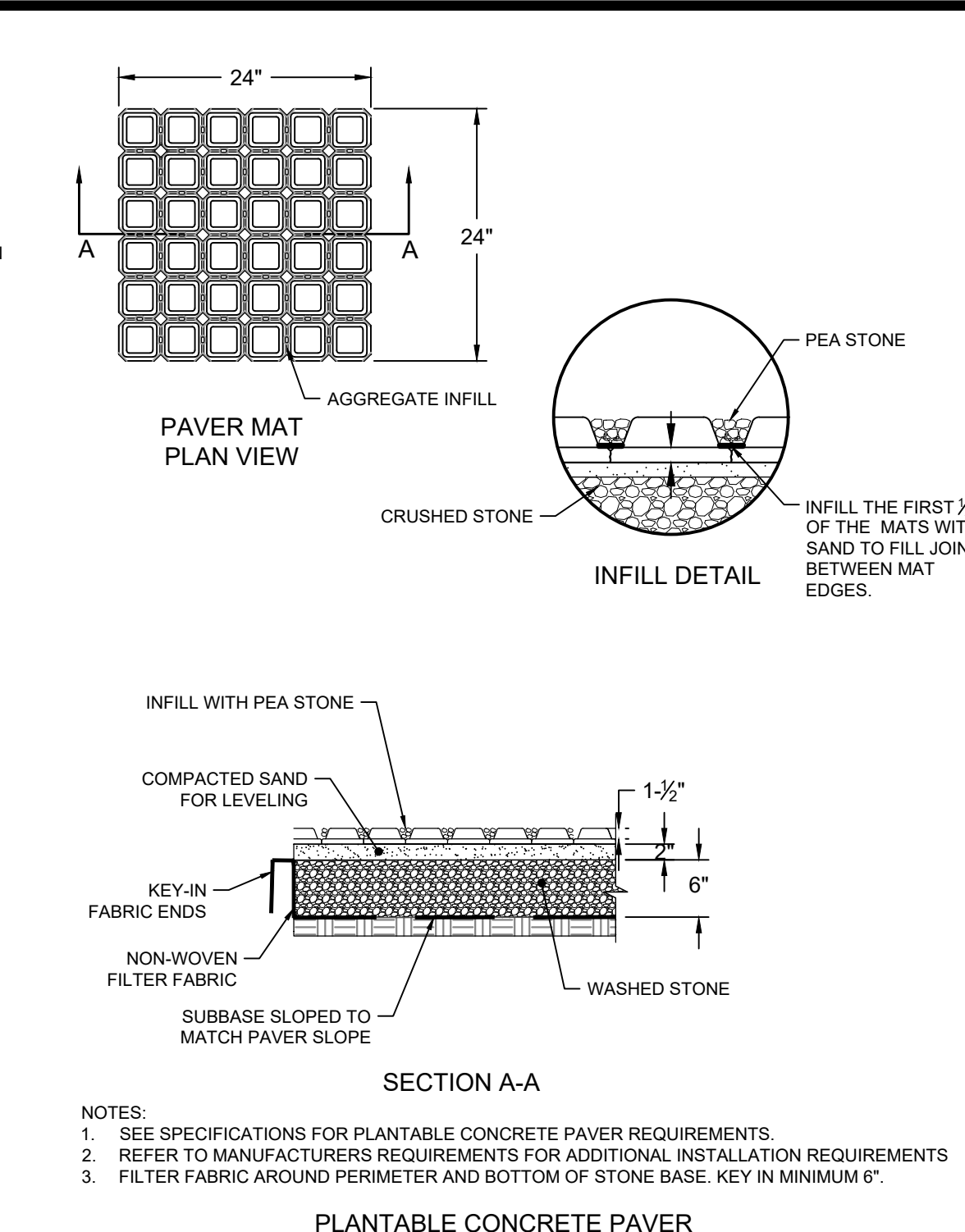
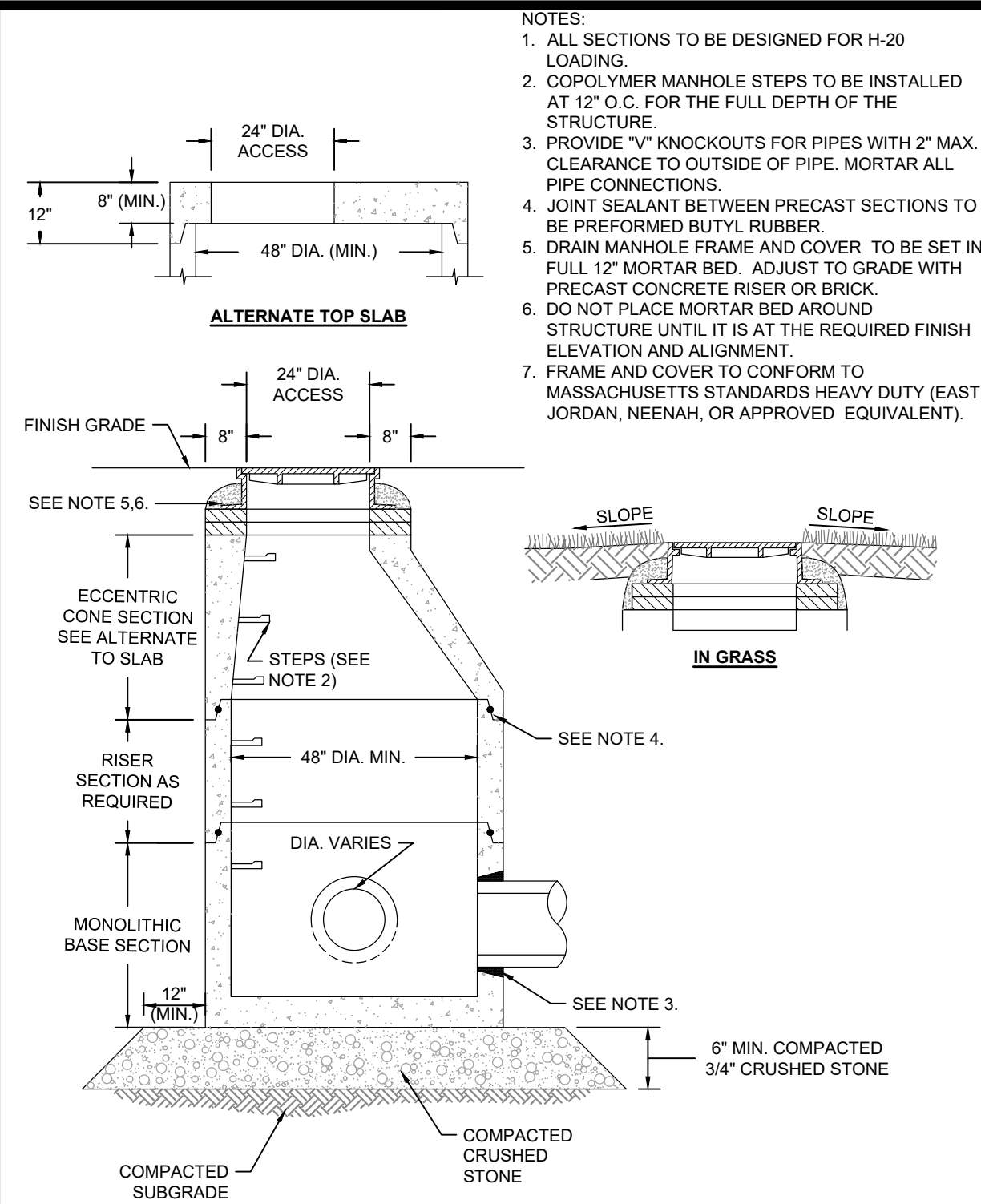
- NOTES:  
1. ALL MEASUREMENTS FROM OUTSIDE EDGE OF TANK TOP.  
2. CONFIRM ALL HOLE LOCATIONS PRIOR TO INSTALLATION.  
3. NITROE SAC TANK TOP TO HAVE THREE 1-9" & MULTIPLE 4" ACCESS HOLES WITH RISERS & COVERS FOR MAINTENANCE & SAMPLING.  
4. FOR 2 1/2" HOLES, PROVIDE 2-2" ADS PIPE (CORRUGATED) WITH POLYLOK (OR EQUIVALENT) COVER TO 6" BELOW GROUND SURFACE, SECURED TO TANK TOP.  
5. INSTALL 4" PIPE (3" BELOW GROUND SURFACE) WITH FERROCEMENT RUBBER CAP. INSTALL WITH 6" ROUND VALVE BOX & COVER WILL BE FLUSHED WITH GROUND SURFACE.  
6. HOLES H4 THROUGH H4 ARE 4" HOLES FOR AERATION TUBING & PULL CORDS. INSTALL 4" PIPE (6" BELOW GROUND SURFACE) WITH PVC CAP.  
7. FOR EXISTING SEPTIC TANK, PROVIDE 2" Ø SAMPLING PIPE THAT IS CEMENTED OR ANCHORED TO TANK TOP. EXTEND 2" BELOW TANK TOP & POSITION 6" TO 1'-0" FROM EDGE OF OUTLET END OF SEPTIC TANK OR IN SEPTIC TANK CONCRETE OUTLET COVER.  
8. ON TOP SIDE OF SEPTIC TANK, THE 2" Ø SAMPLING PIPE WILL EXTEND 2" BELOW GROUND SURFACE & HAVE A 6" Ø PLASTIC ROUND BOX & COVER AT GROUND SURFACE.



**7.5 DIA. 650 GALLON H2O PUMP CHAMBER DETAIL**  
SHOREY PRECAST OR APPROVED EQUAL

| <p>Revisions</p> <table border="1"> <tr> <th>Rev</th> <th>Date</th> <th>By</th> <th>Appr</th> <th>Description</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> |                           | Rev | Date | By          | Appr | Description |  |  |  |  |  |
|---|---------------------------|-----|------|-------------|------|-------------|--|--|--|--|--|
| Rev   | Date                      | By  | Appr | Description |      |             |  |  |  |  |  |
|   |                           |     |      |             |      |             |  |  |  |  |  |
| <p>Horsley Witten Group, Inc.<br/>Sustainable Environmental Solutions<br/>80 Route 6A, Unit 1<br/>Sandwich, MA 02563<br/>508-833-6600 voice<br/>508-833-3150 fax</p>                                |                           |     |      |             |      |             |  |  |  |  |  |
| <p>401 STATE ROAD<br/>HOUSING DEVELOPMENT<br/>MAP 11, LOT 18<br/>WEST TISBURY, MASSACHUSETTS</p>  |                           |     |      |             |      |             |  |  |  |  |  |
| <p>Site DETAILS(2)</p>  |                           |     |      |             |      |             |  |  |  |  |  |
| <p>Prepared For:<br/>Island Housing Trust<br/>P.O. Box 779<br/>West Tisbury, MA 02575<br/>Phone: _____<br/>Fax: _____</p>   |                           |     |      |             |      |             |  |  |  |  |  |
| <p>Survey Provided By:<br/>HorsleyWitten Group, Inc.<br/>80 Route 6A, Unit 1<br/>Sandwich, MA 02563<br/>Phone: (508) 833-6600<br/>Fax: (508) 833-3150<br/>Date: JUNE 2023</p>                       |                           |     |      |             |      |             |  |  |  |  |  |
| <p>Registration:</p>  |                           |     |      |             |      |             |  |  |  |  |  |
| <p>DRAFT<br/>NOT FOR<br/>CONSTRUCTION</p>   |                           |     |      |             |      |             |  |  |  |  |  |
| <p>Project Number:<br/>23063</p>  | <p>Sheet:<br/>9 of 11</p> |     |      |             |      |             |  |  |  |  |  |
| <p>Sheet Number:<br/>C - 9</p>  |                           |     |      |             |      |             |  |  |  |  |  |

last modified: 12/07/23 by jk H:\Projects\2023\23063 State Road Housing West Tisbury\Drawings\23063 DE.dwg



401 STATE ROAD  
HOUSING DEVELOPMENT  
MAP 11, LOT 18  
WEST TISBURY, MASSACHUSETTS

STORMWATER DETAILS (1)

Prepared For: Island Housing Trust  
P.O. Box 779  
West Tisbury, MA 02575  
Phone: ---  
Fax: ---

Survey Provided By: HorsleyWitten Group, Inc.  
90 Route 6A, Unit 1  
Sandwich, MA 02563  
Phone: (508) 833-6600  
Fax: (508) 833-3150  
Date: JUNE 2023

Registration: ---

DRAFT NOT FOR CONSTRUCTION

Project Number: 23063 Sheet: 10 of 11  
Sheet Number: C - 10

Revisions: ---

Checked By: ---  
Designed By: ---  
Drawn By: ---  
Date: DECEMBER 2023



**STORMTECH CHAMBER SPECIFICATIONS**

- CHAMBERS SHALL BE STORMTECH SC-740 OR SC-310.
- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
  - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
  - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
  - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

**IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM**

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.  
STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONESHOOTER LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4"-2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

**NOTES FOR CONSTRUCTION EQUIPMENT**

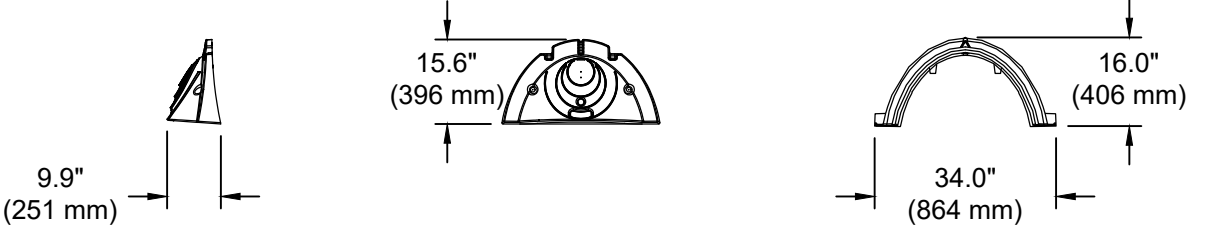
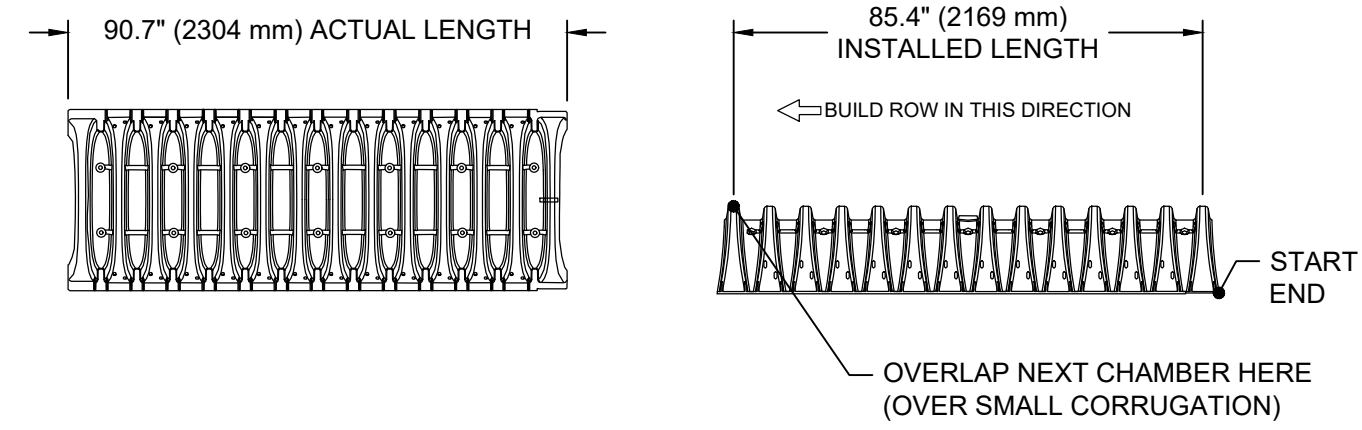
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

**INSPECTION & MAINTENANCE**

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
    - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
    - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
    - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
    - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
    - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
  - ALL ISOLATOR ROWS
    - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
    - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
      - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
      - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
    - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
  - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
  - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.



**NOMINAL CHAMBER SPECIFICATIONS**

| SIZE (W X H X INSTALLED LENGTH) | 34.0" X 16.0" X 85.4" | (864 mm X 406 mm X 2169 mm) |
|---------------------------------|-----------------------|-----------------------------|
| CHAMBER STORAGE                 | 14.7 CUBIC FEET       | (0.42 m <sup>3</sup> )      |
| MINIMUM INSTALLED STORAGE*      | 31.0 CUBIC FEET       | (0.88 m <sup>3</sup> )      |
| WEIGHT                          | 35.0 lbs.             | (16.8 kg)                   |

\*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS

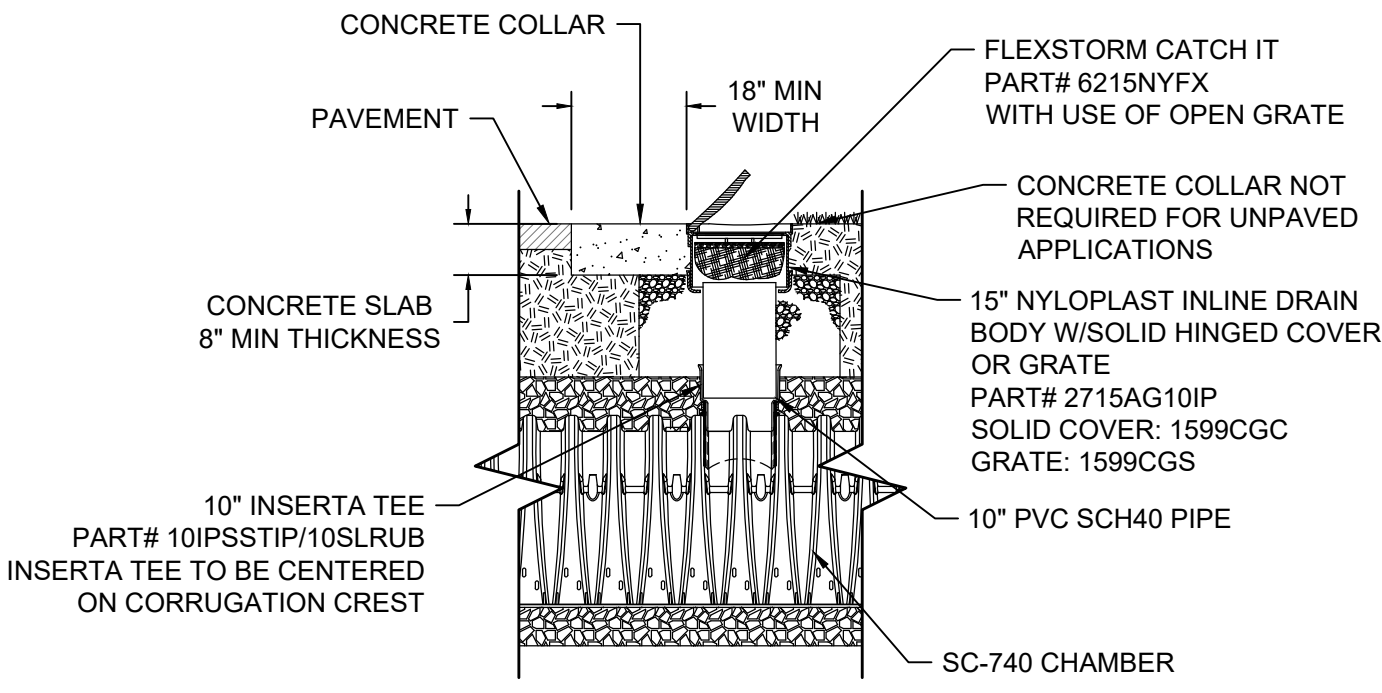
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"  
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"  
PRE CORED END CAPS END WITH "PC"

| PART #                     | STUB         | A              | B             | C            |
|----------------------------|--------------|----------------|---------------|--------------|
| SC310EPE06T / SC310EPE06TP | 6" (150 mm)  | 9.6" (244 mm)  | 5.8" (147 mm) | ---          |
| SC310EPE06B / SC310EPE06BP | ---          | ---            | ---           | 0.5" (13 mm) |
| SC310EPE08T / SC310EPE08TP | 8" (200 mm)  | 11.9" (302 mm) | 3.5" (89 mm)  | ---          |
| SC310EPE08B / SC310EPE08BP | ---          | ---            | ---           | 0.6" (15 mm) |
| SC310EPE10T / SC310EPE10TP | 10" (250 mm) | 12.7" (323 mm) | 1.4" (36 mm)  | ---          |
| SC310EPE10B / SC310EPE10BP | ---          | ---            | ---           | 0.7" (18 mm) |
| SC310EPE12B                | 12" (300 mm) | 13.5" (343 mm) | ---           | 0.9" (23 mm) |

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL



- NOTES:
- ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.
  - INSPECTION PORTS TO BE INSTALLED IN THE MIDDLE CHAMBER OF EACH CHAMBER ROW
  - FOR STORMTECH INFORMATION CALL 1-888-892-2694

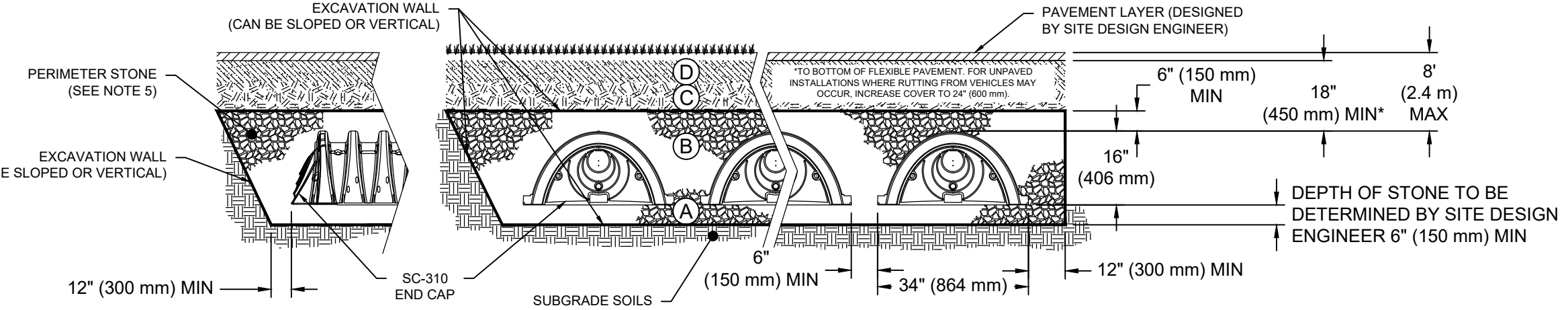
**STORMTECH 10 INCH PORT DETAIL**  
NOT TO SCALE

**SC-310 TECHNICAL SPECIFICATIONS**  
NOT TO SCALE

**ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS**

| MATERIAL LOCATION | DESCRIPTION  | AASHTO MATERIAL CLASSIFICATIONS   | COMPACTION / DENSITY REQUIREMENT   |
|-------------------|--|---|--|
| D                 | <b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER. | N/A   | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.  |
| C                 | <b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | AASHTO M145 <sup>1</sup><br>A-1, A-2-4, A-3<br>OR<br>AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B                 | <b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.  | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57  | NO COMPACTION REQUIRED.  |
| A                 | <b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.   | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57  | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2</sup>  |

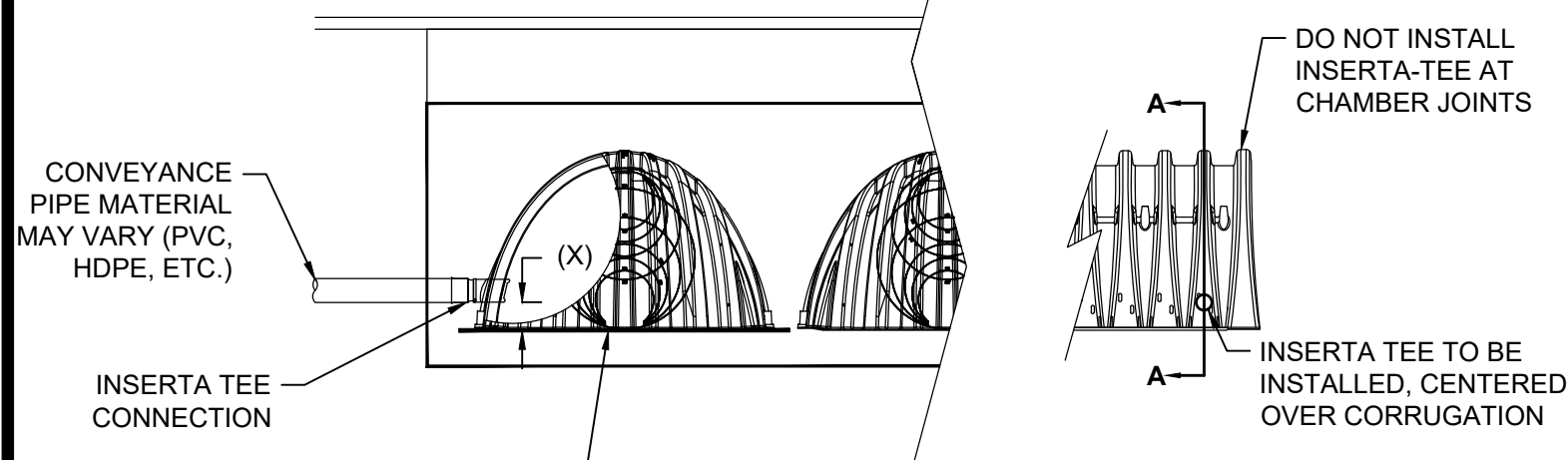
- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



- NOTES
- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
  - SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
  - "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
  - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
  - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
  - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

**SC-310 CROSS SECTION DETAIL**  
NOT TO SCALE

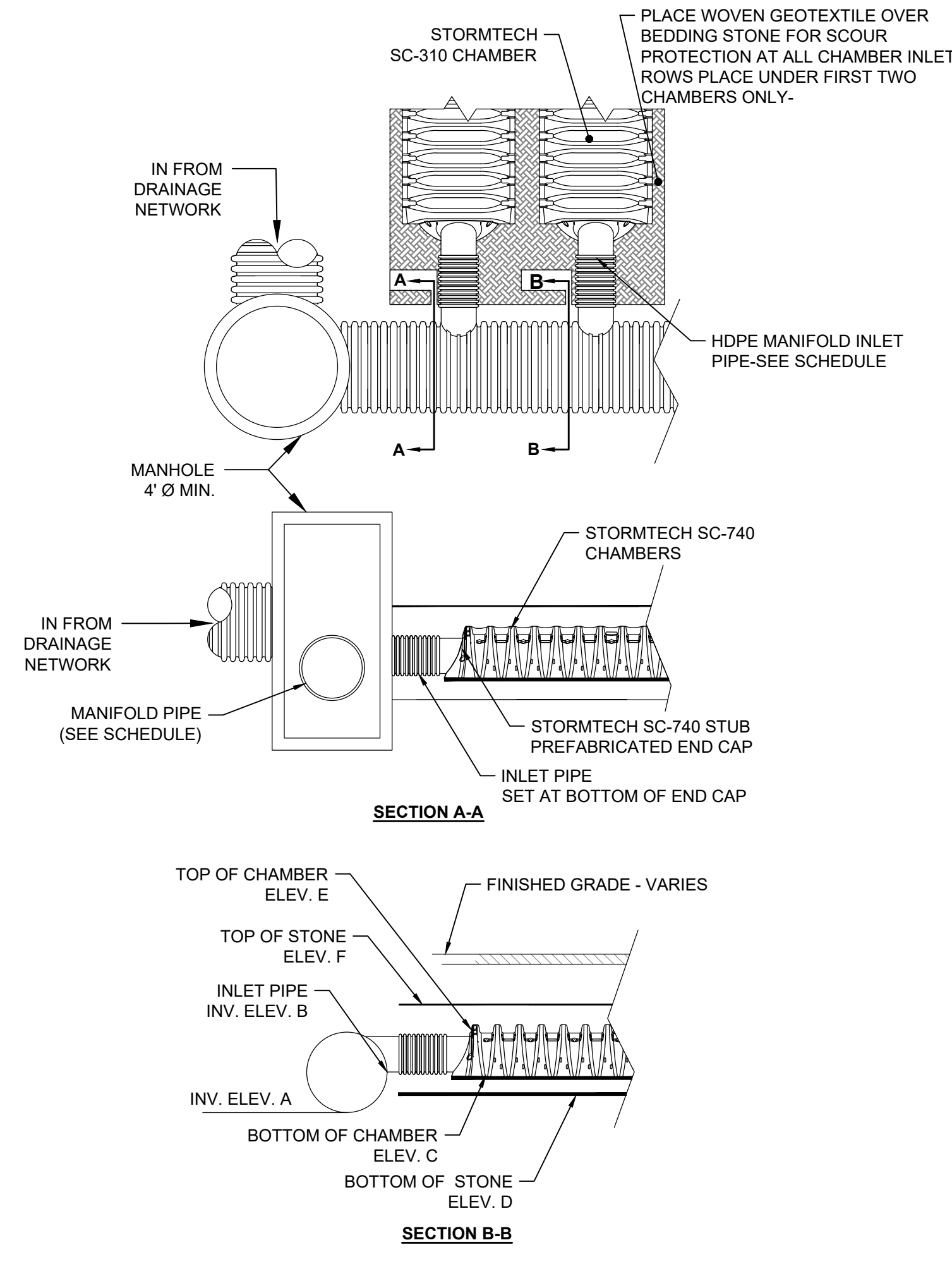
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| CHAMBER | MAX DIAMETER OF INSERTA TEE | HEIGHT FROM BASE OF CHAMBER (X) |
|---------|-----------------------------|---------------------------------|
| SC-310  | 6" (150 mm)                 | 4" (100 mm)                     |
| SC-740  | 10" (250 mm)                | 4" (100 mm)                     |
| DC-780  | 10" (250 mm)                | 4" (100 mm)                     |
| MC-3500 | 12" (300 mm)                | 6" (150 mm)                     |
| MC-4500 | 12" (300 mm)                | 8" (200 mm)                     |

INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON

**INSERTA TEE SIDE CONNECTION DETAIL**  
NOT TO SCALE



**STORMTECH SYSTEM DETAIL**  
NOT TO SCALE

Revisions

| Rev | Date | By | Appr | Description |
|-----|------|----|------|-------------|
| 1   |      |    |      |             |

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STORMWATER DETAILS (2)

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Date: JUNE 2023

Registration:

DRAFT NOT FOR CONSTRUCTION

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