TOWN PRELIMINARY SUBMISSION

551 LIBERTY LANE

LOCATED ON 551 LIBERTY LANE

SOUTH KINGSTOWN, RHODE ISLAND

ASSESSOR’S PLAT 21-3 LOT 21

SHEET LIST

1. COVER SHEET
2. AERIAL AND HALF MILE RADIUS
3. NOTES AND LEGEND
4. EXISTING CONDITIONS PLAN
5. SOIL EROSION & SEDIMENT CONTROL PLAN
6. SITE LAYOUT PLAN
7. GRADING AND UTILITIES PLAN
8. POND COMPLEX A1 DETAILS
9. POND COMPLEX A2 DETAILS
10. STORMCRETE DETAILS
11. DETAIL SHEET
12. LANDSCAPE PLAN
13. LANDSCAPE NOTES & DETAILS

PERMITS AND APPROVALS

RIDEM RIDES GENERAL PERMIT FOR STORMWATER DISCHARGE DURING CONSTRUCTION ACTIVITY (“CGP”) (PERMIT AUTHORIZATION NO. RIRI22225), DATE OF APPROVAL: JANUARY 11, 2022
GENERAL NOTES:

1. SITE ADDRESS: 521 LIBERTY LANE

2. OWNER/DIPEPRET WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR COVERING. NOTIFY SURVEYOR A MINIMUM OF 5 DAYS PRIOR TO CONTRACTOR COVERING IMPROVEMENTS. WRITTEN NOTICE OF COMPLETION OF FIELD WORK PRIOR TO CONTRACTOR COVERING IMPROVEMENTS.

3. BEFORE BEGGINNING WORK, THE CONTRACTOR SHALL PROVIDE A Copy Of Location Documentation TO THE ENGINEER OF RECORD AND THE OWNER/PARTY ORDERING THE WORK.

4. ALL EXISTING PAVEMENT MARKING REMOVED AS INCIDENTAL DURING CONSTRUCTION MUST BE ALL GUARDRAIL ONSITE MUST BE STEEL BACKED TIMBER GUARDRAIL WITH STEEL POSTS, IN ACCORDANCE WITH RIDOT AND AASHTO REQUIREMENTS.

5. ALL GUARDRAIL MUST BE FITTED TO THE ACTUAL SITE CONDITIONS.

6. THIS SITE IS LOCATED IN FEMA FLOOD ZONE X. REFERENCE FEMA FLOOD INSURANCE RATE MAP FOR FLOODPLAIN INFORMATION.

7. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY RETREATMENT SURVEY PLAN. HTTP://WWW.DOT.RI.GOV/BUSINESS/CONTRACTORSANDCONSULTANTS.PHP.

8. STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT:

9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE LEVEL OF EROSION AND SEDIMENT CONTROL NEEDED TO SATISFY ALL REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE LEVEL OF EXISTING UTILITY PROTECTION NEEDED TO SATISFY ALL REQUIREMENTS.

10. THE ABOVE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE LEVEL OF EXISTING UTILITY PROTECTION NEEDED TO SATISFY THE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE LEVEL OF EXISTING UTILITY PROTECTION NEEDED TO SATISFY THE REQUIREMENTS.

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20. THE ABOVE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE LEVEL OF EXISTING UTILITY PROTECTION NEEDED TO SATISFY THE REQUIREMENTS.
INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND INSTALL "SEDIMENT STORAGE" STAKE WITH A MARKER AT ONE HALF OF THE MEASURES: SEEDING FOR TEMPORARY VEGETATION COVER; SEEDING FOR EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX (6) INCHES) OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.

DRAINAGE AREA IS STABILIZED.

DESIGNATED BY THE GEOTECHNICAL ENGINEER.

NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.

CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS CLEAR, GRUB AND STRIP ALL VEGETATION AND ROOT MAT FROM ALL SIDE SLOPES OF THE EMBANKMENT MUST BE 2:1 OR FLATTER.

FILTER STONE SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.

WIDTH MUST NOT EXCEED 6 FEET (BOTTOM OF WET STORAGE TO TOP OF MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO 5 FT)

THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY INLET SEDIMENT CONTROL

EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR PROPOSED EMBANKMENT AND OUTLET AREA.

DRAINAGE AREA OF THE CONTRIBUTING AREA. HALF OF THE STORAGE MUST BE PROVIDED IN

STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25-INCHES AND OTHER DEBRIS.

FILTER STONE.

CONTRACTOR MAY SHAPE TRAP DIFFERENTLY THAN SHOWN ON PLANS AS LONG AS THE MINIMUM SIZING HAS BEEN PROVIDED.
100 YEAR STORM ELEVATION

DESCRIPTION

SOIL EVALUATION

SEASONAL HIGH GWT ELEVATION

NOTICE FOR INSPECTION.

CONTRACTOR MUST PROVIDE ADEQUATE

108

SEE DETAIL

EMERGENCY

L=20' W=17'

6" EMERGENCY

SEE DETAIL

INFLTRATION

TOP OF POND (8' MINIMUM WIDTH)

BOT ELEV=105.00

TOP ELEV=108.50

ZONE IND-1

OVERFLOW WEIR

ZONE OS

POND A

105.75

108

105.18

101.00

5.0'

IP-

POND FILL NOTES:

NOTES:

3.

4.

6" SOLID HDPE PIPE

EQUAL OR GREATER INFILTRATION PARAMETERS THAN THE EXISTING SOIL HORIZONS BENEATH. ONSITE

AND SUBSOILS/ EXCAVATE DOWN TO THE C HORIZON AND BACKFILL WITH SUITABLE MATERIAL THAT HAS

INFILTRATION PONDS MUST BE ADEQUATELY PROTECTED FROM SEDIMENT LADEN RUNOFF DURING CONSTRUCTION.

SEDIMENT FROM INFILTRATION PONDS. IF SEDIMENT REMOVAL IS REQUIRED THE CONTRACTOR MUST ALSO ROTOTILL THE ENTIRE POND BOTTOM TO

SEE PLANS FOR CLASS

DEFAULT: CLOSED POSITION

RIPRAP PAD

INFILTRATION

SIDE SLOPES

TOP/SUBSOIL. ALL BACKFILL SHALL BE FREE FROM ORGANIC

MATERIALS. ALL MATERIAL PLACED BELOW CURBING SHALL BE

EXISTING MATERIALS

TO BE EXCAVATED

LIMITS OF INFILTRATION POND TO BE

STAKED OUT AND NOT USED AS A

TEMPORARY SEDIMENT BASIN DURING

THE BACKFILL OPERATION.

THE IMPERVIOUS CORE SHALL BE KEPT FREE FROM STANDING WATER DURING

OPERATION OF COMPACTION EQUIPMENT.

OF 55% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.00005

CM/S.

STEEPER THAN 3:1, SLOPE PROTECTION MUST BE UTILIZED ON POND

SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.

WHERE REQUIRED) FOR REVIEW PRIOR TO CONSTRUCTION.

IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS.

SIDE SLOPES OF POND TO BE SEEDED WITH NEW

NEW ENGLAND WETLAND PLANTS (OR APPROVED EQUAL)

10 YEAR STORM ELEVATION

11 YEAR STORM ELEVATION

WEIR ELEV: (SEE PLAN)

(SEE NOTE)

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NOTE:
Stormcrete® Modular Precast Porous Concrete Stormwater System
Handling and Installation Manual

1. Unpackaged Equipment
   - Unpack and inspect all components before installation.
   - Check for any damages or missing parts.
   - Lay out the components on a flat surface for easy access.

2. Filtering and Storage
   - Store the components in a dry, shaded area.
   -避免直接阳光暴晒，以防过热。
   - Do not store the components in a humid environment, as this may cause moisture damage.

3. Sub-Base Preparation
   - Remove any existing vegetation or debris from the area.
   - Compact the sub-base material to ensure a stable base for the Stormcrete system.
   - Apply a geotextile fabric to prevent soil compaction and erosion.

Solar Panel Stands
   - Position the solar panels on the sub-base.
   - Secure the panels with stakes or other anchoring devices.
   - Ensure proper alignment for maximum efficiency.

4. Setting Stormcrete® Porous Concrete Slabs
   - Place the Stormcrete slabs on the prepared sub-base.
   - Ensure proper spacing and alignment for optimal performance.
   - Use a level to check for any unevenness or deformities.

5. Photos
   - Photograph the installation process for record-keeping.
   - Attach labels to components for easy identification.
   - Document any deviations from the installation guidelines.

6. Documentation
   - Keep a record of all installation steps and materials used.
   - Submit a report to the appropriate authorities for备案.
   - Maintain a log of any maintenance or repairs performed.

Stormcrete® Precast Porous Concrete Slab (Permeable Pavement)

- **30 MIL PVC IMPERMEABLE LINER**
- **90 MIL PVC IMPERMEABLE LINER**
- **2" THICK PRE-MOLDED EXPANSION JOINT FILLER CONFORMING TO ASTM D1751**
- **BACKER ROD NO. 8**
- **WASHED CRUSHED STONE RESERVOIR COURSE**
- **GEOTEXTILE ON SIDES**
- **ASPHALT**
- **SOIL**

**Sheet A-A**
- **TYPICAL STORMCRETE® INSTALLATION**
- **CONCRETE CURB (FLUSH OR REVEAL)**

**Sheet B-B**
- **GENERAL DETAILS**

**Sheet C-C**
- **8" OPEN JOINT (SPACER PROV.)**
- **NON-WOVEN GEOTEXTILE ON SIDES**

**Sheet D-D**
- **STORMCRETE® PRECAST POROUS CONCRETE (TYP.)**
- **PERMANENT LIFTING POINT (TYP.) (PLUG PROVIDED)**

**Sheet E-E**
- **STORMCRETE® PRECAST POROUS CONCRETE SLAB (PERMEABLE PAVEMENT)**
- **SCREEDING COURSE (TYP.)**

**Sheet F-F**
- **ASPHALT SUB-PAVEMENT (TBD BY DESIGN ENGINEER)**
- **SOIL SUBGRADE 6" MIN**
- **8" OPEN JOINT (SPACER PROV.)**

*NOT FOR CONSTRUCTION - FOR INFORMATIONAL PURPOSES ONLY*
2. THE FOLLOWING MAINTENANCE PROCEDURES SHALL BE FOLLOWED FOR THE STONE TRENCHES:

   a. Storm events greater than 0.5 inches and repair as necessary. The owner must inspect the stone trenches.

   b. The contractor is responsible for maintenance and inspection of the stone trenches during and up to the bottom of the stone reservoir shall be completely flat or nearly so in order to allow infiltration.

   c. An observation well shall be installed in every infiltration trench, consisting of an anchored 4 to 6" native grass.

   d. Plastic lining shall be one of the following:
      - Processed rounded concrete top painted yellow or as specified on landscape plans or specifications.
      - Washed stone.
      - Washed stone bed.

   e. Limits of 10 mil plastic lining shall be one of the following:
      - Sewer tape rolled 2' o.c. at 45°.
      - 8" minimum.

   f. Geotextile.
      - Non-woven geotextile.

   g. Shoulder.
      - Manufactured concrete washout devices may be used for catch basins.

   h. 6" Ø schedule 40 steel.

   i. S.E.W. Manhole.
      - Brick invert.
      - Flex rods that pop off the grate.
      - Lifting straps.
      - Velcro closure.

   j. Sewer trench detail.
      - Stainless steel washout sign.
      - Plastic-coated sewer tape rolled 2' o.c. at 45°.

   k. Water trench detail.
      - See 'utility note' on sheet 3.

   l. Concrete washout area.
      - See site plan.

3. All paint must be fast-drying.

   a. Notes.
      - EDITIONS OF ALL APPLICABLE CODES AND REGULATIONS. UNDER NO CIRCUMSTANCES WILL EXFILTRATION TESTING BE ACCEPTED.

   b. Manholes shall be vacuum tested prior to acceptance, in accordance with the South County Sewer Authority. The only approved method for tapping manholes shall be vacuum testing. The contractor is responsible for the removal and disposal of concrete waste with a minimum freeboard of 12.
PLANTING NOTES:

6. All plants to be planted so that after settlement they bear the same relation to the Leader.

7. All plants to receive a minimum of three (3) inches of aged shredded hardwood brown loam, free of toxic materials for healthy plant growth and survival. Loam shall be friable, fertile, medium textured sandy loam that is not flooded with clean water twice within the first 24 hours of planting.

8. Additional plants shall be of the same size and species as specified with new guarantee.


11. All work shall be performed in accordance with all local, state and federal regulations and town/owner unless otherwise noted. Stormwater systems to be seeded per Pond® and "SoilLife," see sheet 3.

12. Said areas shall be maintained free of physical damage caused by chemicals, insects, diseases, lack of water or other cause. Damaged plants shall be replaced with the same species and size.

13. All landscaped areas shall be kept free of weeds and debris. All vegetation within a minimum of 20 feet of any indoors intersections shall be maintained free of physical damage caused by chemicals, insects, diseases, lack of water or other cause. Damaged plants shall be replaced with the same species and size.

14. All planting materials shall be free of toxic materials for healthy plant growth and survival. Loam shall be friable, fertile, medium textured sandy loam that is not flooded with clean water twice within the first 24 hours of planting. Additional plants shall be of the same size and species as specified with new guarantee.


16. All work shall be performed in accordance with all local, state and federal regulations and town/owner unless otherwise noted. Stormwater systems to be seeded per Pond® and "SoilLife," see sheet 3.

17. Said areas shall be maintained free of physical damage caused by chemicals, insects, diseases, lack of water or other cause. Damaged plants shall be replaced with the same species and size.

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21. All work shall be performed in accordance with all local, state and federal regulations and town/owner unless otherwise noted. Stormwater systems to be seeded per Pond® and "SoilLife," see sheet 3.

22. Said areas shall be maintained free of physical damage caused by chemicals, insects, diseases, lack of water or other cause. Damaged plants shall be replaced with the same species and size.

23. All landscaped areas shall be kept free of weeds and debris. All vegetation within a minimum of 20 feet of any indoors intersections shall be maintained free of physical damage caused by chemicals, insects, diseases, lack of water or other cause. Damaged plants shall be replaced with the same species and size.

24. All planting materials shall be free of toxic materials for healthy plant growth and survival. Loam shall be friable, fertile, medium textured sandy loam that is not flooded with clean water twice within the first 24 hours of planting. Additional plants shall be of the same size and species as specified with new guarantee.


26. All work shall be performed in accordance with all local, state and federal regulations and town/owner unless otherwise noted. Stormwater systems to be seeded per Pond® and "SoilLife," see sheet 3.

27. Said areas shall be maintained free of physical damage caused by chemicals, insects, diseases, lack of water or other cause. Damaged plants shall be replaced with the same species and size.

28. All landscaped areas shall be kept free of weeds and debris. All vegetation within a minimum of 20 feet of any indoors intersections shall be maintained free of physical damage caused by chemicals, insects, diseases, lack of water or other cause. Damaged plants shall be replaced with the same species and size.

29. All planting materials shall be free of toxic materials for healthy plant growth and survival. Loam shall be friable, fertile, medium textured sandy loam that is not flooded with clean water twice within the first 24 hours of planting. Additional plants shall be of the same size and species as specified with new guarantee.


31. All work shall be performed in accordance with all local, state and federal regulations and town/owner unless otherwise noted. Stormwater systems to be seeded per Pond® and "SoilLife," see sheet 3.

32. Said areas shall be maintained free of physical damage caused by chemicals, insects, diseases, lack of water or other cause. Damaged plants shall be replaced with the same species and size.

33. All landscaped areas shall be kept free of weeds and debris. All vegetation within a minimum of 20 feet of any indoors intersections shall be maintained free of physical damage caused by chemicals, insects, diseases, lack of water or other cause. Damaged plants shall be replaced with the same species and size.

34. All planting materials shall be free of toxic materials for healthy plant growth and survival. Loam shall be friable, fertile, medium textured sandy loam that is not flooded with clean water twice within the first 24 hours of planting. Additional plants shall be of the same size and species as specified with new guarantee.

PARTIAL LANDSCAPE SCREEN. (SEE FIGURE 1).

3. OF LAND SHALL BE CONSTRUCTED OR MAINTAINED ALONG THE ENTIRE STREET FRONTAGE, EXCEPT FOR ANY NECESSARY DETECONIZATION. THE INITIAL PLANTING WILL NOT ACHIEVE THE INTENDED SCREENING EFFECT WITHIN ONE YEAR OF PLANTING.

PLANNING BOARD MAY REQUIRE THE PLACEMENT OF A SIX-FOOT-HIGH OPAQUE FENCE OR OTHER BARRIER IF THE BOARD

PLANT MATERIALS - STANDARDS

9-FOOT WIDE X 18' HALF END ISLANDS: AT LEAST 1 TREE, PLUS AT LEAST 3 LOW SHRUBS OR GROUND COVER PLANTS AND/OR TURF COVER PLANTS PER 100 LINEAR FEET AND/OR TURF GRASS;

THE INTERIOR AREAS OF PARKING LOTS (EXCLUSIVE OF LOADING AREAS) SHALL ALSO BE LANDSCAPED. THE MINIMUM AMOUNT OF THAN 2,500 SQ. FT. OF PAVED PARKING AREA.

THE PERIMETER OF THE PARKING LOT AND LOADING FACILITY SHALL BE SURROUNDED BY A LANDSCAPED STRIP AS ILLUSTRATED

STREET TREES AND SHADE TREES SHALL MEET THE REQUIREMENTS OF ARTICLE XIII, SECTION 13 OF THESE REGULATIONS.

WETLANDS, HILLSIDES, OR ROCK OUTCROPS SUFFICIENT TO SCREEN ADJACENT RIGHTS-OF-WAY. (SEE FIGURE 5).

WHICH IS OR MAY BE CUSTOMARILY USED BY THE PUBLIC AS ACCESS TO THE PARKING OR LOADING FACILITY, A LANDSCAPED STRIP

LOCATION OF LOADING SPACES

OFF-STREET LOADING SPACES SHALL BE LOCATED UPON THE LOT IN SUCH A MANNER SO AS TO BE HIDDEN FROM DIRECT VIEW

BETWEEN THE PARKING SURFACE AND BUILDING WALL OF AT LEAST THREE (3) FEET IN WIDTH. LANDSCAPING SHALL BE PROVIDED

PAVEMENT FOR PARKING AREAS, EXCLUSIVE OF LOADING AREAS AND DRIVEWAYS, SHALL NOT DIRECTLY ABUT THE WALL OF ANY

LOW SHRUBS OR TURF MAY BE SUBSTITUTED FOR TREES WITHIN THE INTERIOR OF PARKING AREAS WHERE EXISTING TREE COVER

WHERE MULTIPLE TREES ARE TO BE PLANTED, MONOCULTURE PLANTING SHOULD BE AVOIDED,

TREES SHALL HAVE A WELL-DEFINED CENTRAL LEADER. ALL TREES SHALL BE OF LICENSED NURSERY STOCK. NATIVE SPECIES

SIZE - SPECIES SHALL BE 1 1/2 TO 2 INCHES CALIPER, MEASURED ONE-FOOT FROM GROUND LEVEL IN PLACE, AND 6 FEEL LO 8

QUALITY - STREET TREES SHALL BE BALLED AND BURLAPPED WITH GOOD ROOT DEVELOPMENT AND BRANCHING CHARACTERISTICS.

UNDISTURBED SUBGRADE

DRIVE 3'-0" INTO

HEIGHT VARIES

R.I.

NOTED ON PLANS

3" PINE BARK OR

EVERGREEN PLANTING DETAIL

(4'-0" HIGH AND GREATER)

2 X ROOTBALL

NOT TO SCALE

NOT TO SCALE

CONTAINER GROWN SHRUB PLANTING DETAIL