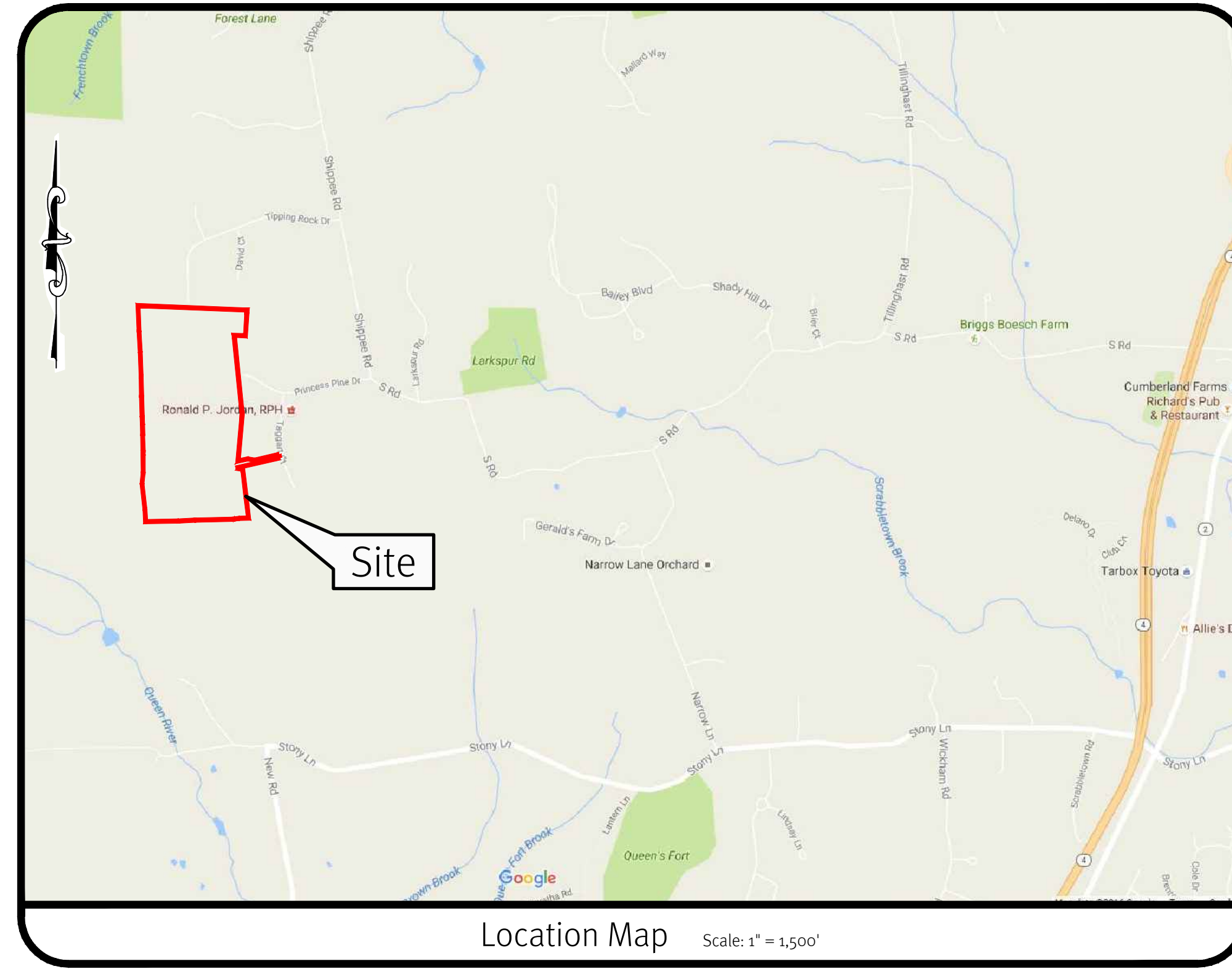


# Phase 1 - Final Plan Submission

# Highland Woods

East Greenwich, Rhode Island 02818

Assessor's Map 7 Plat 19 Lots 12 & 156



## Sheet Index

1. Cover Sheet
2. Aerial Half Mile Radius
3. Notes And Legend
4. Boundary Survey
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14. Plan & Profile - Highland Woods Drive
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16. Pond B - Detail Sheet
17. Detail Sheet - 1
18. Detail Sheet - 2

APPROVED BY THE PLANNING BOARD

PLANNING BOARD CHAIR OR DESIGNEE DATE

**DiPrete Engineering**

Two Stafford Court Cranston, RI 02920  
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AUDIE D. OSGOOD  
No. 9313  
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Locations of existing utilities. See Utility Note on sheet 3.

|                  |                                 |    |
|------------------|---------------------------------|----|
| 09/27/2023       | Phase 1 - Final Plan Submission | SP |
| DAVE             | Description                     | DP |
| Drawn By: J.A.R. | Design By: M.S.C.               |    |

**Cover Sheet**  
**Highland Woods**  
Assessor's Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818  
**GSA Properties, LLC**  
50 Niantic Avenue  
Providence, Rhode Island 02907

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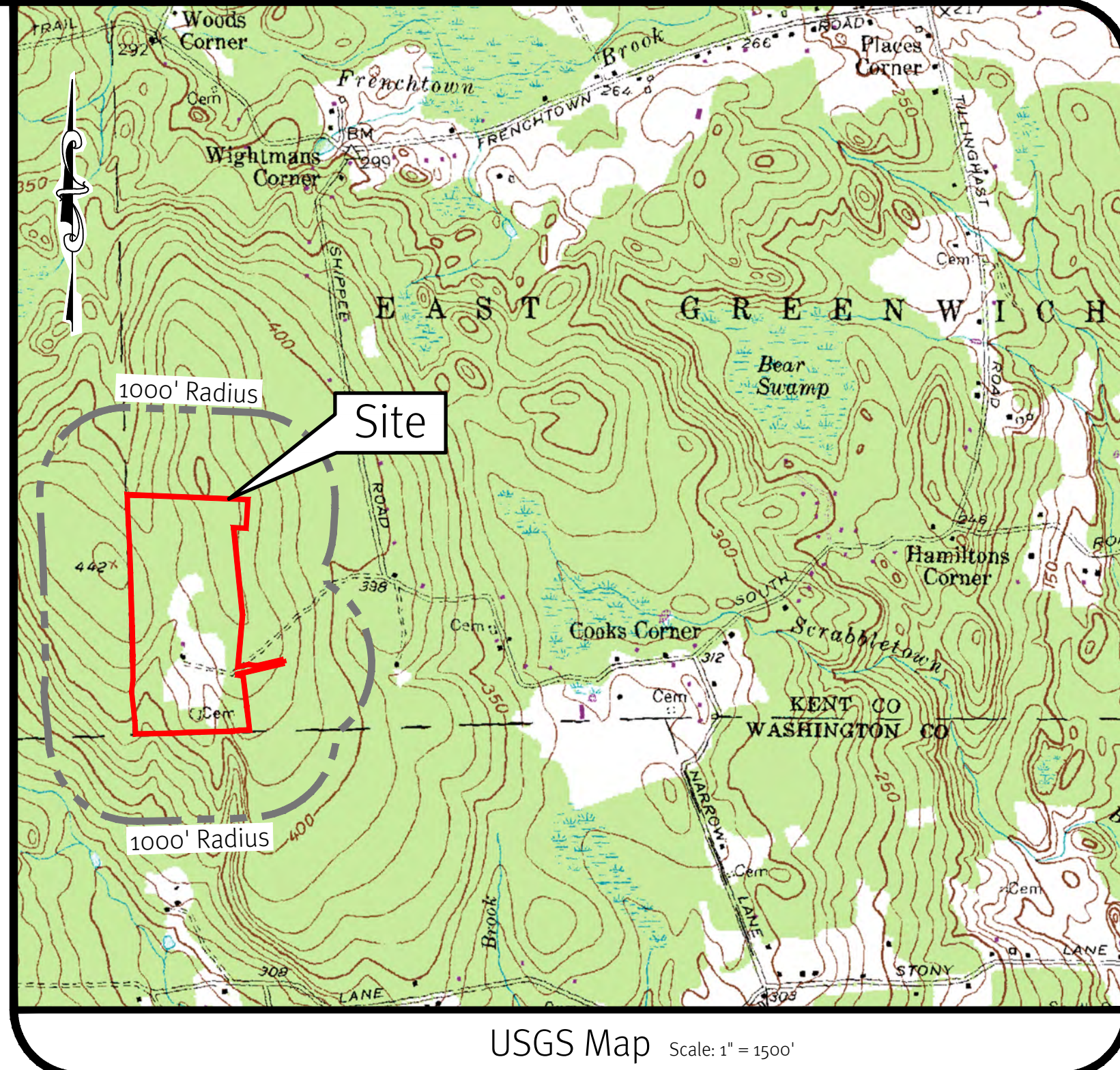
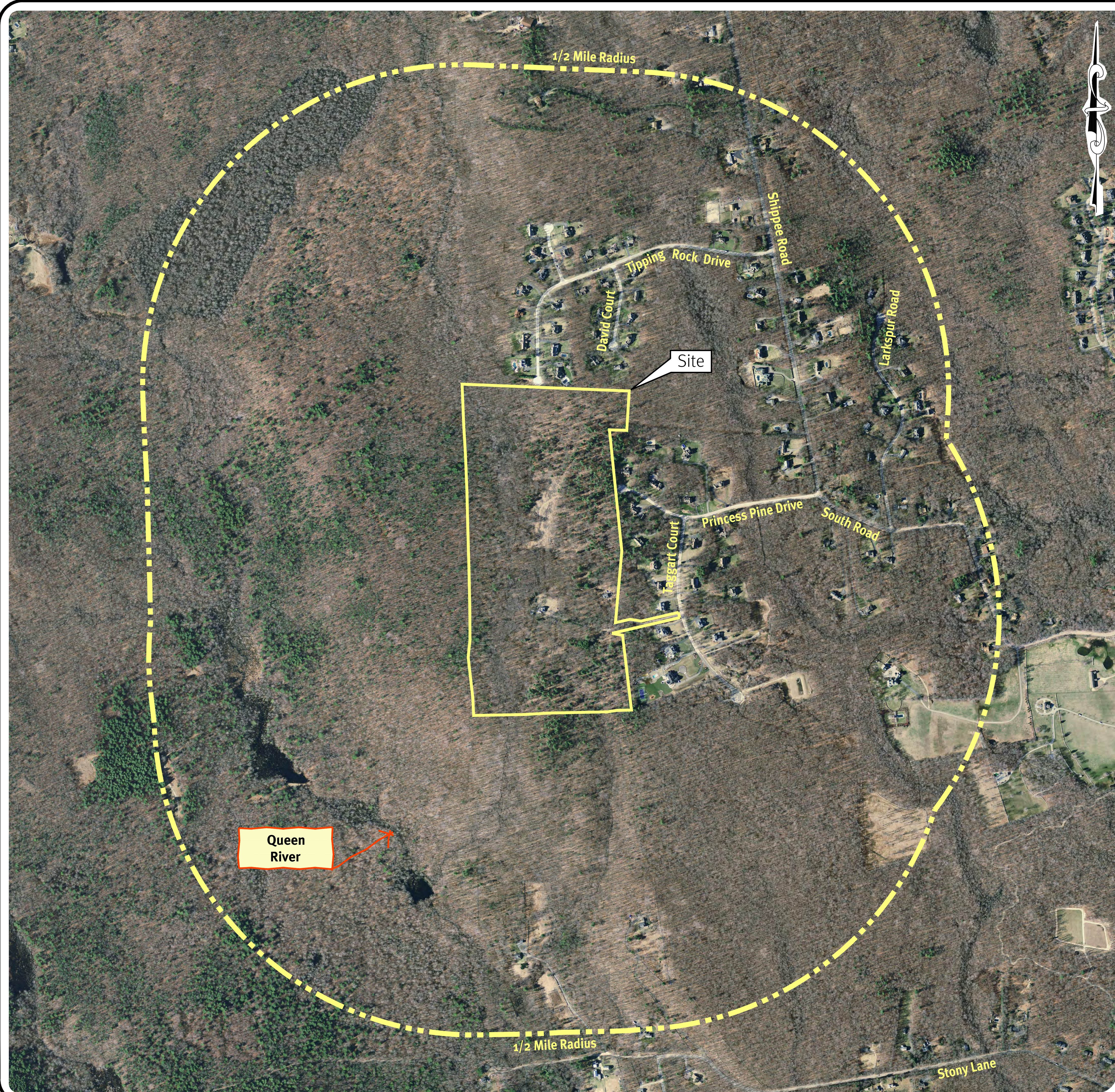


Photo obtained from the RI-GIS.  
Scale: 1"=400'  
0 200' 400' 800'

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|   |            |                               |    |
|---|------------|-------------------------------|----|
| 0 | 02/17/2021 | Phase 1 - Item 10a Submission | SR |
| 1 | 02/17/2021 | Drawn                         | DP |
| 2 |            | Design By: M.S.C.             |    |

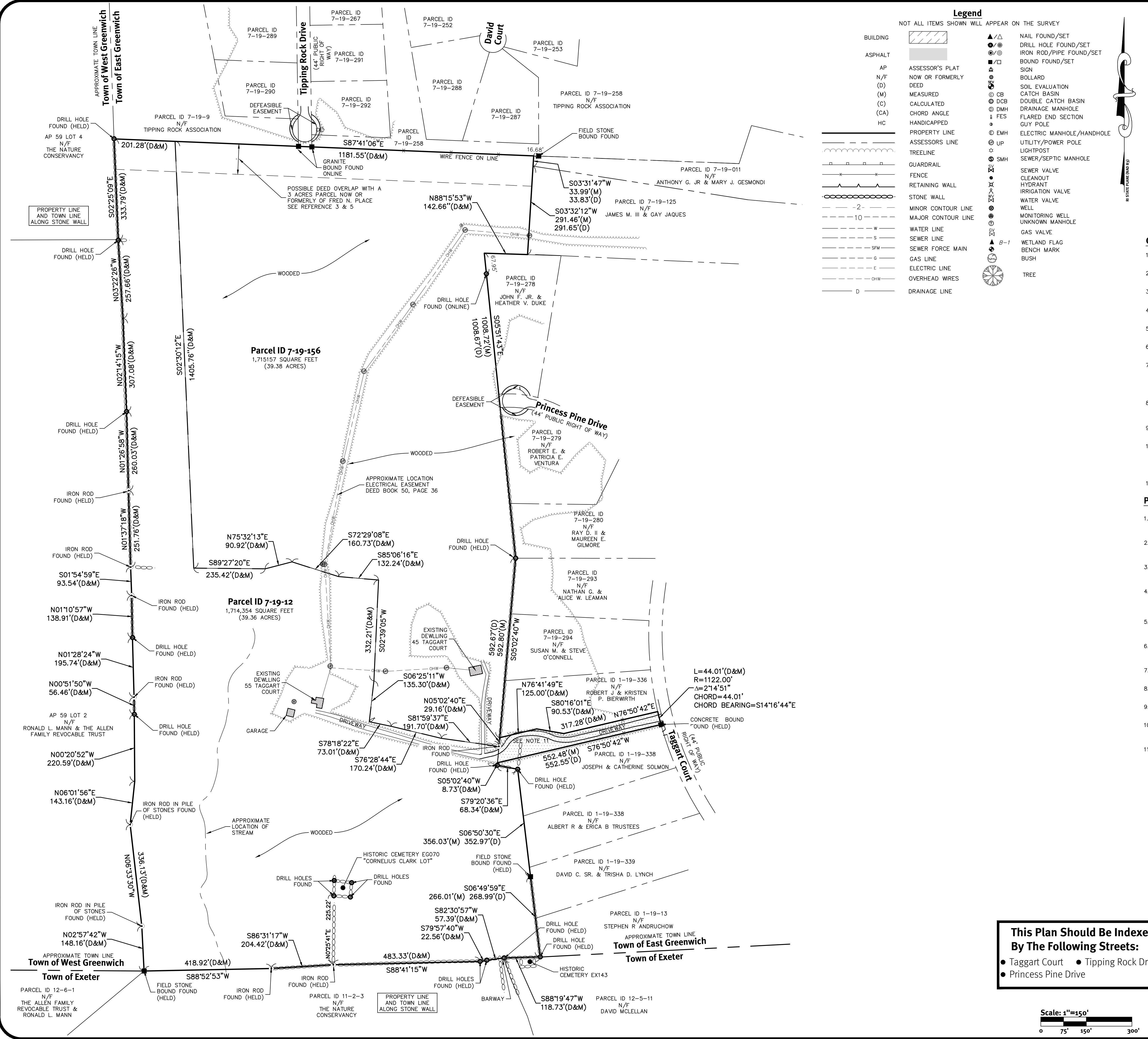
**Aerial Half Mile Radius**  
**Highland Woods**  
Assessor's Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818

**GSA Properties, LLC**  
Owner & Applicant  
50 Niantic Avenue  
Providence, Rhode Island 02907

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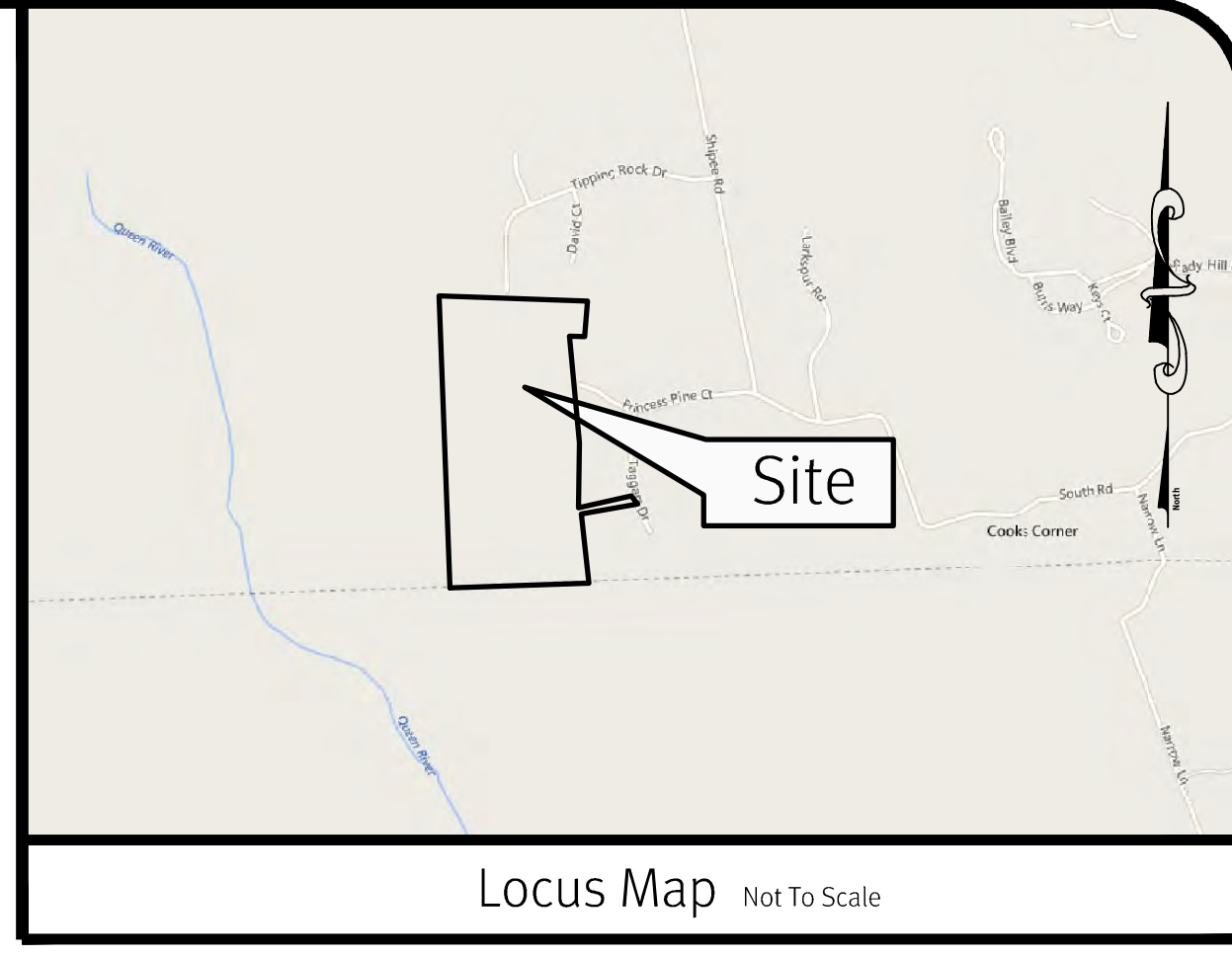


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**Legend**  
NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY

|  |                    |  |                           |
|--|--------------------|--|---------------------------|
|  | BUILDING           |  | NAIL FOUND/SET            |
|  | ASPHALT            |  | DRILL HOLE FOUND/SET      |
|  | ASSESSOR'S PLAT    |  | IRON ROD/PIPE FOUND/SET   |
|  | NOW OR FORMERLY    |  | BOUND FOUND/SET           |
|  | DEED               |  | SIGN                      |
|  | MEASURED           |  | BOLLARD                   |
|  | CALCULATED         |  | SOIL EVALUATION           |
|  | CHORD ANGLE        |  | CATCH BASIN               |
|  | HANDICAPPED        |  | DOUBLE CATCH BASIN        |
|  | PROPERTY LINE      |  | DRAINAGE MANHOLE          |
|  | ASSESSORS LINE     |  | FLARED END SECTION        |
|  | TREELINE           |  | GUY POLE                  |
|  | GUARDRAIL          |  | ELECTRIC MANHOLE/HANDHOLE |
|  | FENCE              |  | UTILITY/POWER POLE        |
|  | RETAINING WALL     |  | LIGHTPOST                 |
|  | STONE WALL         |  | SEWER/SEPTIC MANHOLE      |
|  | MINOR CONTOUR LINE |  | SEWER VALVE               |
|  | MAJOR CONTOUR LINE |  | CLEANOUT                  |
|  | WATER LINE         |  | HYDRANT                   |
|  | SEWER LINE         |  | IRRIGATION VALVE          |
|  | SEWER FORCE MAIN   |  | WATER VALVE               |
|  | GAS LINE           |  | WELL                      |
|  | ELECTRIC LINE      |  | MONITORING WELL           |
|  | OVERHEAD WIRES     |  | UNKNOWN MANHOLE           |
|  | DRAINAGE LINE      |  | GAS VALVE                 |
|  |                    |  | WETLAND FLAG              |
|  |                    |  | BENCH MARK                |
|  |                    |  | BUSH                      |
|  |                    |  | TREE                      |

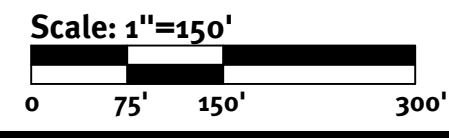


- General Notes**
- THE PARCELS ARE KNOWN AS PARCEL ID 7-19-12 & 7-19-156 IN THE TOWN OF EAST GREENWICH, KENT COUNTY, RHODE ISLAND.
  - THE OWNER PER DEED BOOK 1284, PAGE 163 AND DEED BOOK 1284, PAGE 169 IS RAYMOND E. HULING, JR AND DIANNE J. HULING.
  - THE PARCELS ARE LOCATED IN ZONE X PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 44003C02316, DATED DECEMBER 3, 2010.
  - THE PARCELS ARE ZONED F-2 PER THE ASSESSOR'S ONLINE DATABASE. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
  - THERE WERE CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
  - FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING IN OCTOBER OF 2016. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
  - ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY OBSERVATIONS ONLY. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR MISSING UNDERGROUND UTILITIES, EITHER IN SERVICE OR ABANDONED, NOT OBSERVED AT THE TIME OF THE SURVEY. (PLEASE CONTACT DIGSAFE 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 1-888-344-7233).
  - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.
  - PLEASE REFER TO RHODE ISLAND GENERAL LAW § 23-23-18-11 FOR BUILDING REQUIREMENTS AROUND A HISTORIC CEMETERY.
  - DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR AN ARCHAEOLOGICAL INVESTIGATION NEEDED TO DETERMINE THE BOUNDARIES OF THE UNMARKED CEMETERY AS REQUIRED BY RHODE ISLAND GENERAL LAW § 23-23-18-11 SUBSECTION 2C. THE APPROXIMATE AREA OF THE UNMARKED CEMETERY THE AREA SHOWN ON THIS SURVEY IS BASED SOLELY ON THE LOCATION OF THE HEADSTONE FOUND IN THE FIELD AT THE TIME OF THE SURVEY ON OCTOBER 17, 2011
  - PARCEL SUBJECT TO EASEMENT AND RESTRICTIONS IN DEED BOOK 318, PAGE 237.

- Plan References:**
- PLAN OF LAND SITUATED ON HOPKINS HILL ROAD, WEST GREENWICH, RHODE ISLAND, ASSESSORS PLAT 59 LOT 4, OWNED BY THE NATURE CONSERVANCY, DATED 9 SEPT 2004, PLAN BY CROSSMAN ENGINEERING, INC. PLAT BOOK 26 PAGE 391.
  - SURVEY OF LAND-THE RODMAN LEWIS LAND SHOWN AS ASSESSORS MAP 11 BLOCK 2 LOT 3, EXETER, RHODE ISLAND, OWNED BY LEWIS E. JR. AND SYLVIA A. PECK, DATED JUNE 2003, PLAN BY ALPHA ASSOCIATES.
  - BOUNDARY SURVEY PLAN OF LAND, ASSESSORS PLAT 19-0, LOT 9, SHIPPEE ROAD, EAST GREENWICH, RHODE ISLAND, OWNED BY WINGS FINANCIAL MARKETING, INC., PLAN BY SCITUATE SURVEYS, INC. PLAT 542
  - SURVEY PLAN SHOWING PROPERTY LINES FOLLOWING PROPOSED AGREEMENT AND CONVEYANCES BETWEEN WINGS FINANCIAL MARKETING, INC. AND JAMES M. JAKES III, AND JAY JAKES, SHIPPEE ROAD, EAST GREENWICH, RHODE ISLAND DATED MAY 1995, PLAN BY SCITUATE SURVEYS, INC. PLAT 567.
  - PLAN OF LAND IN TIPPING ROCK, SUBDIVISION NO.1A, EAST GREENWICH, RHODE ISLAND, OWNED BY WINGS FINANCIAL MARKETING, INC. DATED APRIL 1995, PLAN BY S.F.M. ENGINEERING ASSOCIATES. PLAT 576.
  - PLAN OF LAND IN TIPPING ROCK, SUBDIVISION NO. 1B, EAST GREENWICH, RHODE ISLAND, OWNED BY WINGS FINANCIAL MARKETING, INC. DATED SEPTEMBER 1996, PLAN BY S.F.M. ENGINEERING ASSOCIATES. PLAT 600.
  - FINAL GEOMETRY PLAN OF LAND SITUATED IN SOUTHDRIDGE, EAST GREENWICH, OWNED BY STEPHEN ANDRUCHOW INC. DATED SEPTEMBER 1996, PLAN BY ALPHA ASSOCIATES. PLAT 665
  - FINAL GEOMETRY PLAN OF LAND SITUATED IN SOUTHDRIDGE, EAST GREENWICH, OWNED BY STEPHEN ANDRUCHOW, INC. DATED SEPTEMBER 1996, PLAN BY ALPHA ASSOCIATES. PLAT 685
  - PLAN OF LAND IN TIPPING ROCK, SUBDIVISION NO.28, OWNED BY WINGS FINANCIAL MARKETING, INC. DATED MAY 1994, PLAN BY S.F.M. ENGINEERING ASSOCIATES. PLAT 652.
  - PLAN OF LAND IN SOUTHDRIDGE, MAJOR SUBDIVISION, PHASE III, ASSESSOR PLAT 19M, LOT 13, EAST GREENWICH, RHODE ISLAND, OWNED BY STEPHEN ANDRUCHOW, INC. DATED OCTOBER 2000 PLAN BY ALPHA ASSOCIATES.
  - ADMINISTRATIVE SUBDIVISION PLAN, ASSESSORS PLAT 19M, LOTS 12 & 156, EAST GREENWICH, RHODE ISLAND, OWNED BY RAYMOND E. HULING & NANCY HULING DATED JANUARY 2007 PREPARED BY ALPHA ASSOCIATES, LTD. REFERENCE LE B60 PAGE 1.

**This Plan Should Be Indexed By The Following Streets:**

- Taggart Court
- Tipping Rock Drive
- Princess Pine Drive



**Certification**

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUARY 1, 2016, AS FOLLOWS:

|                               |                           |
|-------------------------------|---------------------------|
| TYPE OF SURVEY                | MEASUREMENT SPECIFICATION |
| COMPREHENSIVE BOUNDARY SURVEY | CLASS 1                   |

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
PERIMETER RETRACEMENT PERFORMED BY DIPRETE ENGINEERING FOR THE PURPOSE OF SITE ENGINEERING AND PERMITTING.

**ROBERT G. BABCOCK**  
No. 2504  
PROFESSIONAL LAND SURVEYOR

*Robert G. Babcock*  
ROBERT G. BABCOCK, RIPLS #2504, COA #LS.0004160

12/16/16

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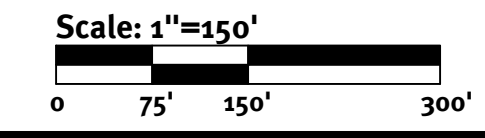
**Boundary Survey**  
45 & 55 Taggart Court  
East Greenwich, Rhode Island

**Client**  
Glenn Amore  
139 Wilbert Way  
North Kingstown, RI 02882

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SHEET 4 OF 18

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**Existing Conditions Plan**

**Highland Woods**

Assessor's Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818

Owner & Applicant  
**GSA Properties, LLC**  
50 Niantic Avenue  
Providence, Rhode Island 02907

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Drawn By: J.A.R.

Design By: M.S.C.

Phase 1 - Final Plan Submission

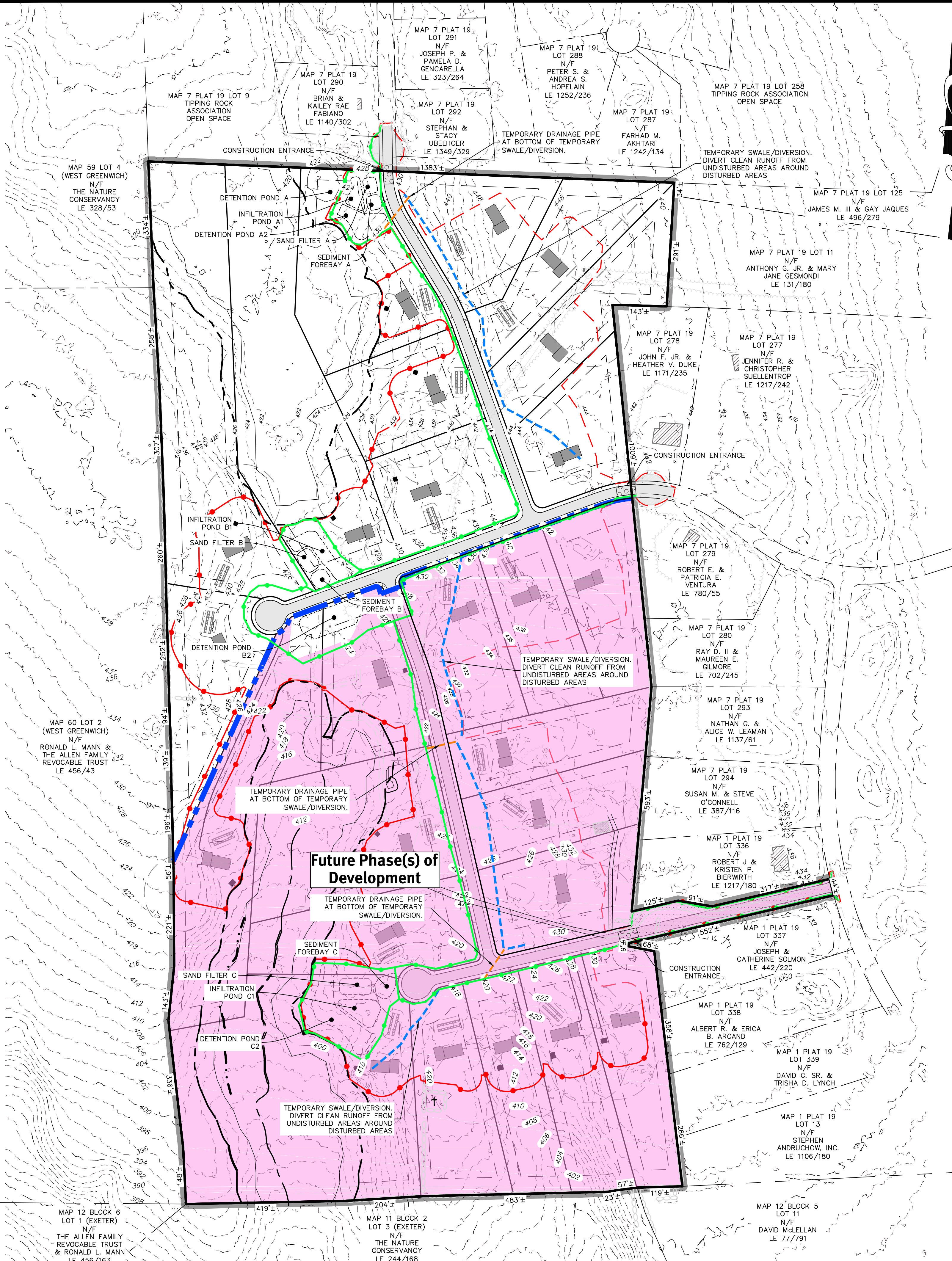
Date: 02/22/2021

Sheet: 5 OF 18

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**AUDIE D. OSGOOD**  
No. 9313  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

**DiPrete Engineering**  
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**Soil Erosion Control Legend:**

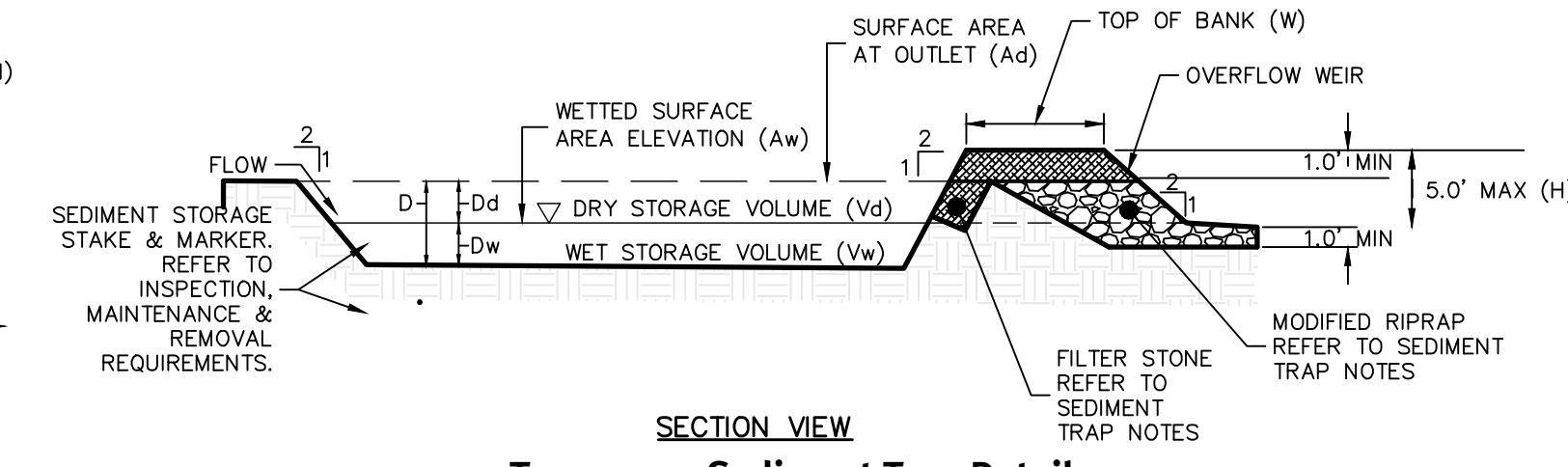
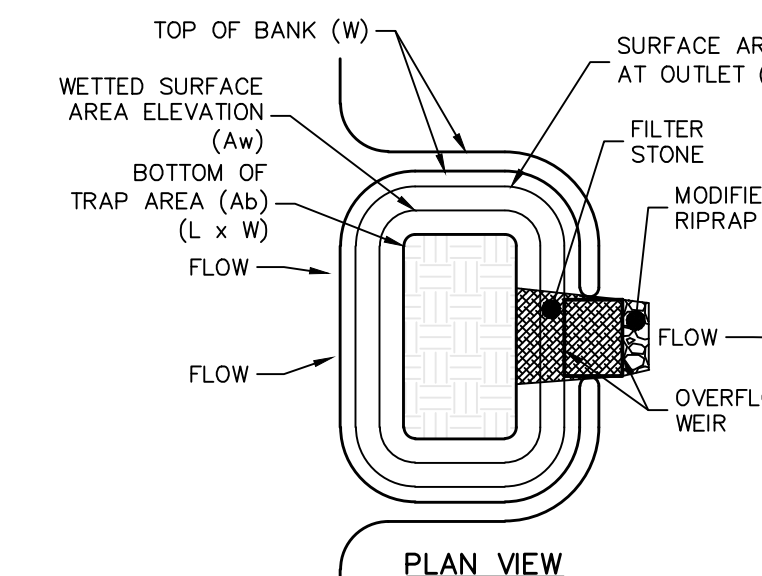
- DIVERSION RUNOFF CONVEYANCE MEASURE (SWALE AND/OR BERM) (PHASES 1a & 2a ONLY - REMOVE PRIOR TO PHASES 1b & 2b) —
- TEMPORARY DRAINAGE PIPE - - -
- ROADWAY & DRAINAGE NETWORK CONSTRUCTION AREA
- SILT FENCE OR APPROVED EQUAL EROSION CONTROL MEASURE PHASE 1a/2a (ROAD CONSTRUCTION) (RI STD 9.2.0) - · - · -
- SILT FENCE OR APPROVED EQUAL EROSION CONTROL MEASURE PHASE 1b/1b (LOT CONSTRUCTION) (RI STD 9.2.0) - · - · -
- LIMIT OF DISTURBANCE (NO EROSION CONTROL) - - - - -
- CONSTRUCTION ENTRANCE (RI STD 9.9.0)
- DRAINAGE BMP OUTLINES

**Soil Erosion Control Plan Notes:**

1. THIS PLAN SHOWS THE SOIL EROSION CONTROL PLAN NECESSARY FOR CONSTRUCTION OF THE ROADWAY, UTILITIES, DRAINAGE NETWORK AND DRAINAGE AREAS ONLY. IF DISTURBED AREAS ARE TO VARY BEYOND THOSE SHOWN ON THIS SOIL EROSION CONTROL PLAN, ALL SOIL EROSION CONTROL AND SEDIMENT CONTROL PRACTICES SHALL CONFORM TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK LATEST EDITION. DISTURBED AREAS GREATER THAN 1 ACRE CAN BE MANAGED USING TEMPORARY SEDIMENT TRAPS. THE CONTRACTOR MAY CONSULT THE PROVIDED TYPICAL SEDIMENT TRAP DETAIL AND SHALL ENSURE ALL PRACTICES MEET THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK PRACTICES.
2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES FOR INDIVIDUAL LOT BUILD OUT SHALL CONFORM TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK LATEST EDITION.
3. THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK CAN BE FOUND ONLINE AT: [HTTP://WWW.DEM.RI.GOV/PROGRAMS/WATER/PERMITS/RIPDES/STORMWATER/SOIL-EROSION.PHP](http://www.dem.ri.gov/PROGRAMS/WATER/PERMITS/RIPDES/STORMWATER/SOIL-EROSION.PHP)

**Soil Erosion Control Implementation Phasing**

- Phase 1a or 2a**
1. INSTALL CONSTRUCTION ENTRANCE
  2. CLEAR AND GRUB SITE AREAS FOR ROADWAY & DRAINAGE CONSTRUCTION.
  3. INSTALL EROSION CONTROL & SEDIMENT BARRIERS.
  4. CONSTRUCT PROPOSED DIVERSIONS SWALES & TEMPORARY DRAINAGE PIPES.
  5. INSTALL UTILITIES WITH ROADWAYS. INSTALL DRAINAGE NETWORK WORKING FROM THE DOWN GRADIENT BASINS UP TO THE START OF NETWORK. INSTALL ASPHALT PAVING
  6. STABILIZE ALL DISTURBED AREAS, DE-CONSTRUCT DIVERSIONS, ROADWAY EROSION CONTROL AND TEMPORARY PIPES.
- Phase 1b or 2b Individual Lot Construction**
1. INSTALL CONSTRUCTION ENTRANCE
  2. INSTALL EROSION CONTROL/SEDIMENT BARRIERS & INLET PROTECTION.
  3. CLEAR AND GRUB LOT AREA
  4. CONSTRUCT INDIVIDUAL RESIDENTIAL LOTS
  5. STABILIZE ALL DISTURBED AREAS, DE-CONSTRUCT SEDIMENT BARRIERS, EROSION CONTROL & STONE CONSTRUCTION ENTRANCE



**TYPICAL TRAP VOLUMES**

| DRAINAGE AREA (ACRES) | REQUIRED SEDIMENT TRAP VOLUME (CF) |
|-----------------------|------------------------------------|
| 1                     | 3,618                              |
| 2                     | 7,236                              |
| 3                     | 10,854                             |
| 4                     | 14,472                             |
| 5                     | 18,090                             |

**TOP WIDTH VS. HEIGHT**

| H=HEIGHT OF EMBANKMENT | W=TOP WIDTH OF EMBANKMENT |
|------------------------|---------------------------|
| 1.5                    | 2.0                       |
| 2.0                    | 2.0                       |
| 2.5                    | 2.0                       |
| 3.0                    | 2.5                       |
| 3.5                    | 3.0                       |
| 4.0                    | 3.0                       |
| 4.5                    | 4.0                       |
| 5.0                    | 4.5                       |

**TEMPORARY SEDIMENT TRAP DETAILS**  
NOT TO SCALE

| SEDIMENT TRAP DIMENSIONS         |  |
|----------------------------------|--|
| TRIBUTARY DRAINAGE AREA (AC)     |  |
| WET STORAGE DEPTH (Dw) (FT)      |  |
| DRY STORAGE DEPTH (Dd) (FT)      |  |
| TOTAL DEPTH (D) (FT)             |  |
| BOTTOM OF TRAP AREA (A3) (SF)    |  |
| WETTED SURFACE AREA (Aw) (SF)    |  |
| SURFACE AREA AT OUTLET (A4) (SF) |  |

**Sediment Trap Notes:**

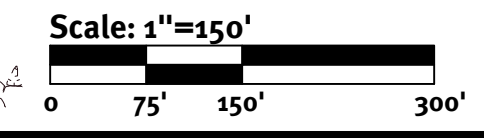
1. THE TEMPORARY SEDIMENT TRAPS SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES
2. THE TEMPORARY SEDIMENT TRAP SHALL HAVE AN INITIAL STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER EXCEPT FOR THE EXCAVATED WET STORAGE AREA WHERE SLOPES SHALL NOT EXCEED 1.5:1.
4. THE OUTLET SHALL BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
5. THE OUTLET CONSISTS OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIPRAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
6. TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
7. MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO 5 FEET.
8. SIDE SLOPES OF THE EMBANKMENT SHALL BE 2:1 OR FLATTER.
9. MODIFIED RIPRAP: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.
10. FILTER STONE: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE 1, COLUMN V FILTER STONE.

**Inspection, Maintenance, and Removal Requirements:**

1. INSTALL "SEDIMENT STORAGE" STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

**Installation Notes:**

1. CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX (6) INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9-INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES: SEEDING FOR TEMPORARY VEGETATION COVER; SEEDING FOR PERMANENT VEGETATIVE COVER; OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION



**Note: This Plan Must Be Reproduced In Color**

**DiPrete Engineering**  
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tel 401-943-1000 fax 401-664-6006 www.diprete-eng.com

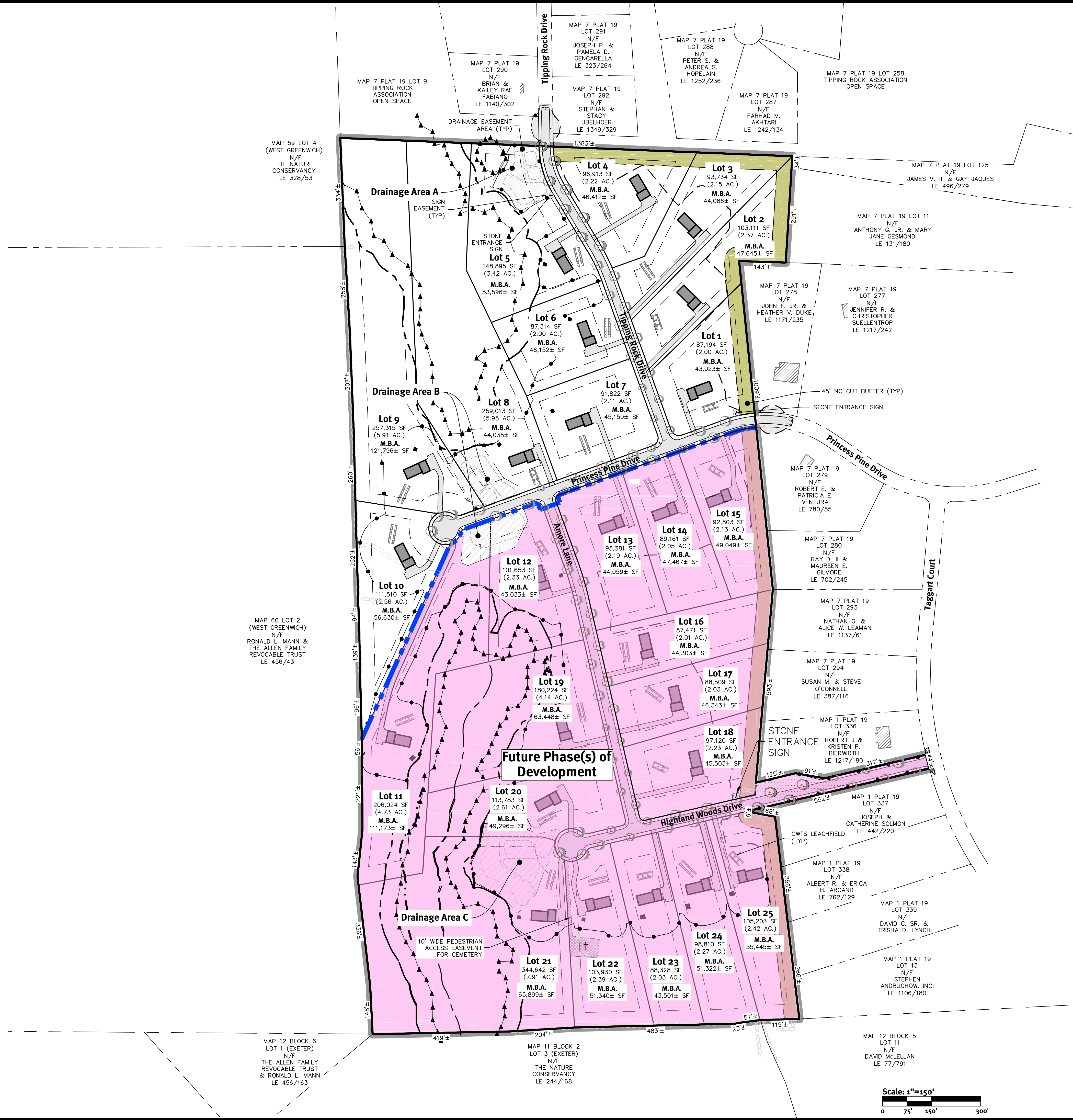
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Phase 1 - Final Plan Submission  
09/27/2023  
Date Description  
Drawn By: J.A.C. Design By: M.S.C.

**Soil Erosion And Sediment Control Plan**  
**Highland Woods**  
Assessor: Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818  
**Owner & Applicant**  
**GSA Properties, LLC**  
50 Natick Avenue  
Providence, Rhode Island 02907  
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 No. 9313  
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

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| Phase | Date       | Description                     | Design By         |
|-------|------------|---------------------------------|-------------------|
| 0     | 02/22/2021 | Phase 1 - Final Plan Submission | M.S.C.            |
| 1     | 02/22/2021 | 1/20                            | Design By: M.S.C. |
| 2     |            |                                 |                   |
| 3     |            |                                 |                   |
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**Site Layout Plan**  
**Highland Woods**  
 Assessor's Map 7 Plat 19, Lots 12 & 156  
 East Greenwich, Rhode Island 02818

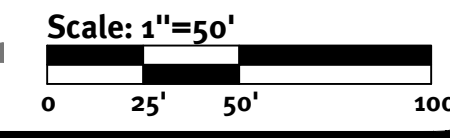
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**GSA Properties, LLC**  
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 Providence, Rhode Island 02907

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See Sheet 9



Grading, Drainage & Utility Plan - 1  
Highland Woods  
Assessor: Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818  
Owner & Applicant  
GSA Properties, LLC  
50 Niantic Avenue  
Providence, Rhode Island 02907  
DESIGNER: JOHN F. JR. & HEATHER V. DUKE  
LE 1171/235  
DATE: 02/22/2021  
DRAWN BY: J.A.R.

AUDIE D. OSGOOD  
No. 9313  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

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Two Stafford Court Cranston, RI 02920  
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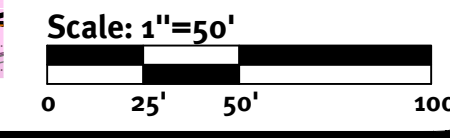
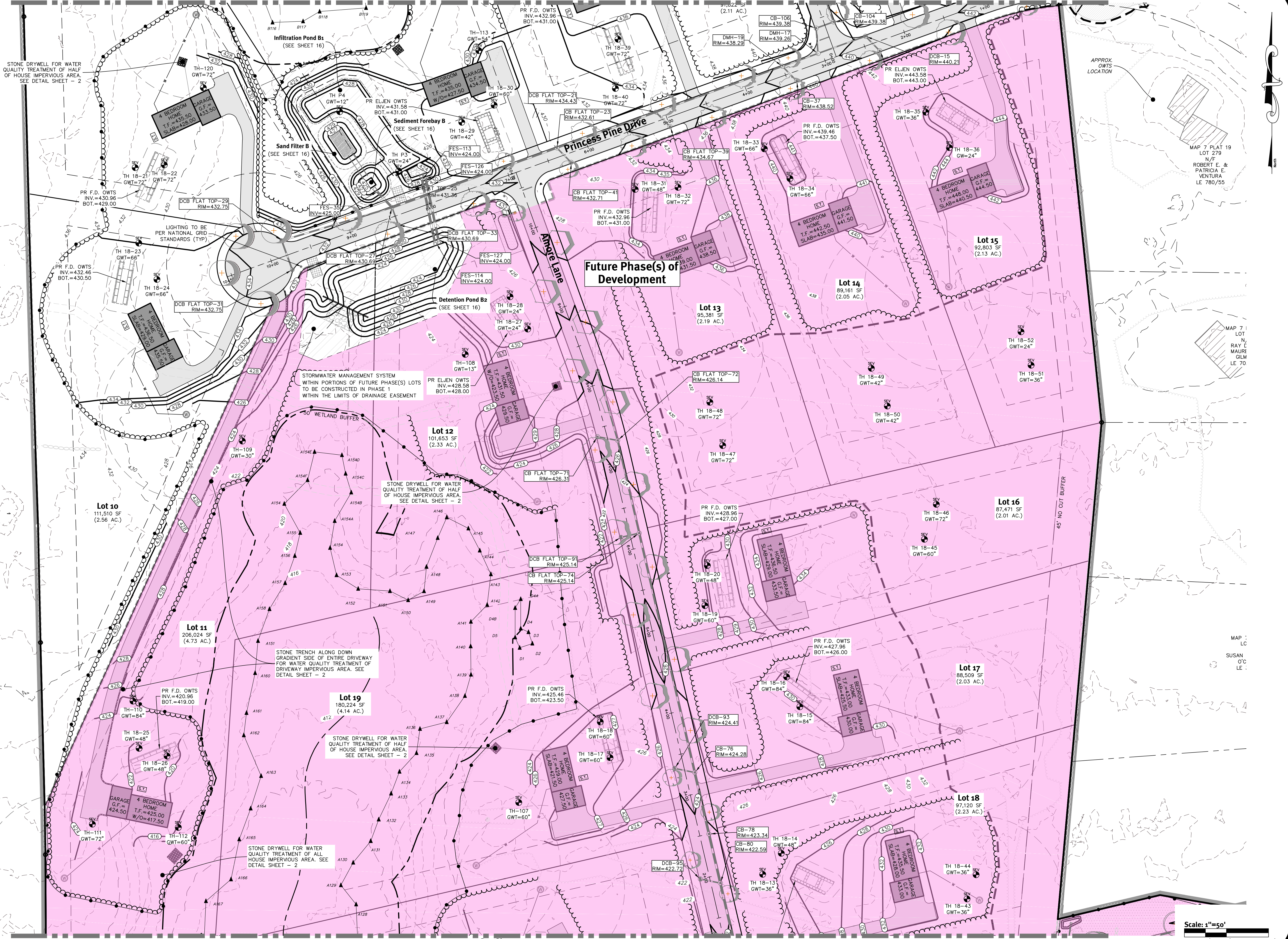
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| No. | Date       | Phase   | Item                  | Submitted | By     | Design |
|-----|------------|---------|-----------------------|-----------|--------|--------|
| 0   | 02/22/2021 | Phase 1 | Final Plan Submission |           | J.A.R. | M.S.C. |



See Sheet 8

See Sheet 10



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|---|------------|---------------------------------|----|
| 0 | 09/22/2023 | Phase 1 - Final Plan Submission | SF |
| 1 | 08/10/2023 | Revised                         | DR |

Drawn By: I.A.R. Design By: M.S.C.

**Grading, Drainage & Utility Plan - 2**  
**Highland Woods**  
 Assessor's Map 7 Plat 19, Lots 12 & 15 & 16  
 East Greenwich, Rhode Island 02818

**GSA Properties, LLC**  
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 Providence, Rhode Island 02907

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See Sheet 9



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| Rev | Date       | Description                     | Design By |
|-----|------------|---------------------------------|-----------|
| 0   | 02/22/2023 | Phase 1 - Final Plan Submission | M.S.C.    |
| 1   | 02/22/2023 | Drawn                           | J.A.R.    |

**Grading, Drainage & Utility Plan - 3**  
**Highland Woods**  
 Assessor's Map 7 Plat 19, Lots 12 & 156  
 N/F  
 East Greenwich, Rhode Island 02818

**GSA Properties, LLC**  
 Owner & Applicant  
 50 Niantic Avenue  
 Providence, Rhode Island 02907

MAP 12 BLOCK 5 LOT 11 N/F DAVID McLELLAN LE 77/791

MAP 1 PLAT 19 LOT 13 N/F STEPHEN ANDRUCHOW, INC. LE 1106/180

MAP 1 PLAT 19 LOT 336 N/F ROBERT J & KRISTEN P. BIERWIRTH LE 1217/180

MAP 1 PLAT 19 LOT 337 N/F JOSEPH & CATHERINE SOLMON LE 442/220

MAP 1 PLAT 19 LOT 338 N/F ALBERT R. & ERICA B. ARCAD LE 762/129

MAP 1 PLAT 19 LOT 339 N/F DAVID C. SR. & TRISHA D. LYNCH

Scale: 1"=50'

SHEET 10 OF 18

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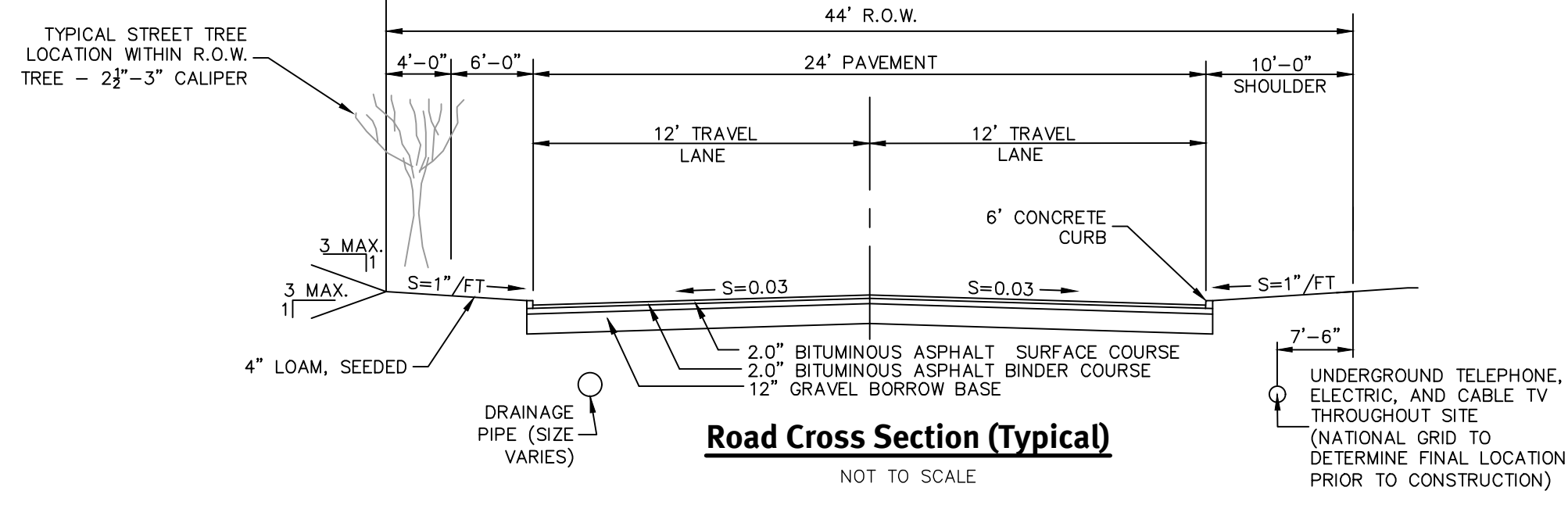
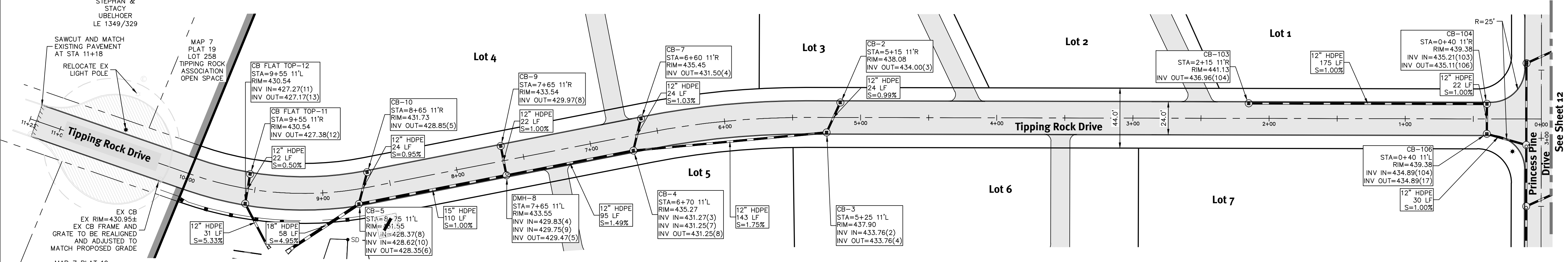
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LOT 292  
N/F  
STEPHAN &  
STACY  
UBELHOER  
LE 1349/329

MAP 7 PLAT 19  
LOT 258  
TIPPING ROCK  
ASSOCIATION  
OPEN SPACE

SAWCUT AND MATCH  
EXISTING PAVEMENT  
AT STA 11+18  
RELOCATE EX  
LIGHT POLE

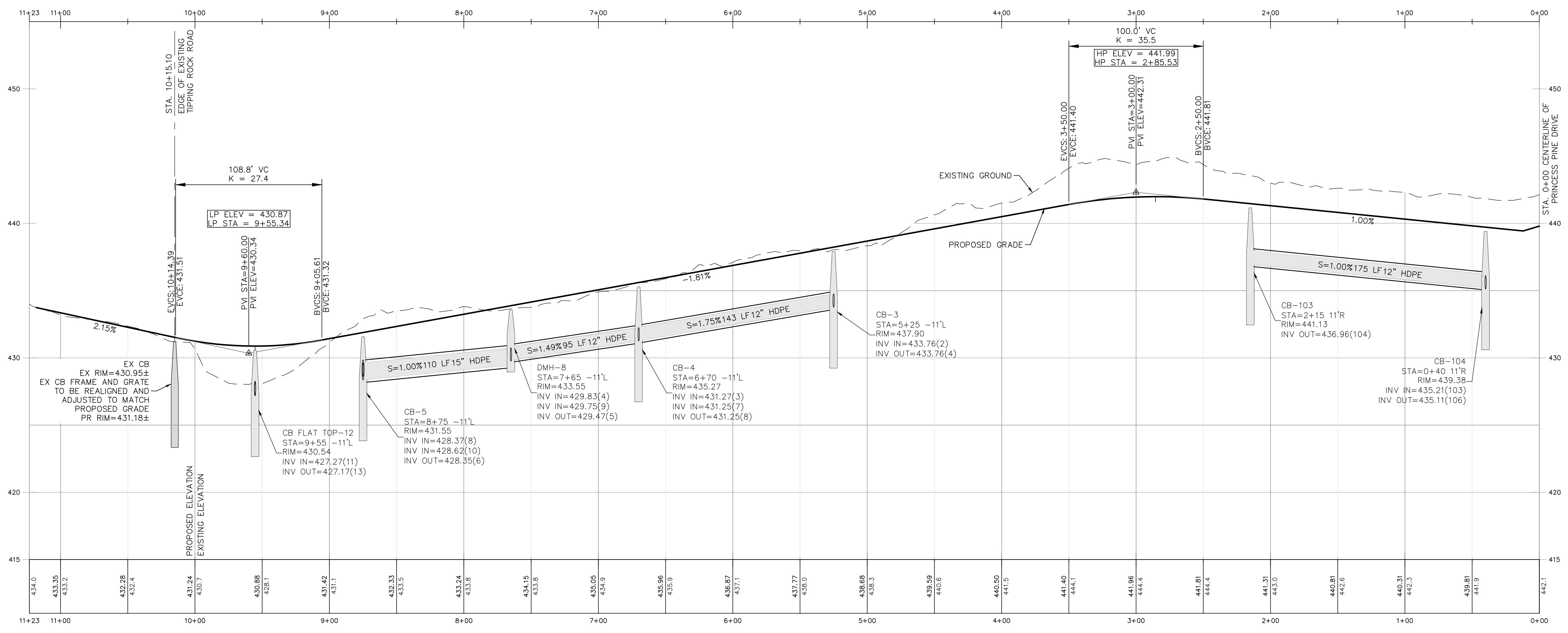
MAP 7 PLAT 19  
LOT 9  
TIPPING ROCK  
ASSOCIATION  
OPEN SPACE

MAP 7 PLAT 19  
LOT 9  
TIPPING ROCK  
ASSOCIATION  
OPEN SPACE

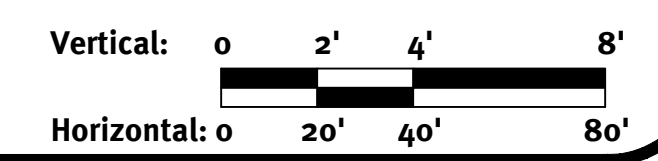


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- DRAINAGE STRUCTURES TO BE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS):
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  - CATCH BASINS NOT ALONG CURBING TO BE RIDOT STD. 4.4.0, 4' DIAMETER
  - SINGLE FRAME CATCHBASIN GRATES TO BE RIDOT STD. 6.3.2
  - DOUBLE FRAME CATCHBASIN GRATES TO BE RIDOT STD. 6.3.2
  - HIGH CAPACITY CATCHBASIN GRATES TO BE RIDOT STD. 6.3.4 AND INSTALLED ANYWHERE GRADES ARE 6% AND STEEPER
  - MANHOLES TO BE RIDOT STD. 4.2.0, 4.2.1 OR 4.2.2 AS REQUIRED
  - DRAINAGE MANHOLE COVERS TO BE RIDOT STD. 6.2.1
  - DROP INLETS TO BE RIDOT STD. 4.5.0, 4.5.1 OR 4.5.2
  - APRON STONE, WHERE REQUIRED, TO BE RIDOT STD. 7.1.7 OR 7.1.8. HEADWALLS TO BE RIDOT STD. 2.1.0.



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|               |                                |     |
|---------------|--------------------------------|-----|
| 09/27/2023    | Phase 1 - Item Plan Submission | SP  |
| 1/23          | Date                           | Dr. |
| Drawn By: JAR | Design By: M.S.C.              |     |

**Plan & Profile - Tipping Rock Drive**  
**Highland Woods**  
Assessor: Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818

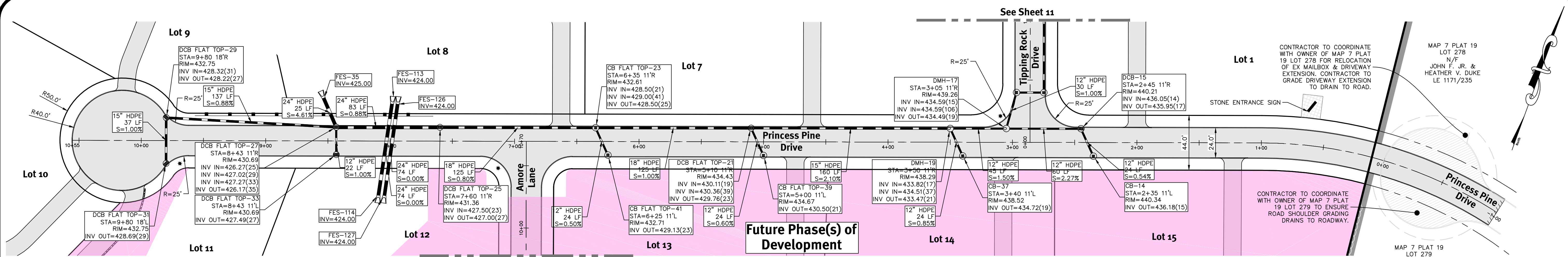
**GSA Applicant**  
50 Niantic Avenue  
Providence, Rhode Island 02907

**Owner & Applicant**  
Highland Woods  
50 Niantic Avenue  
Providence, Rhode Island 02907

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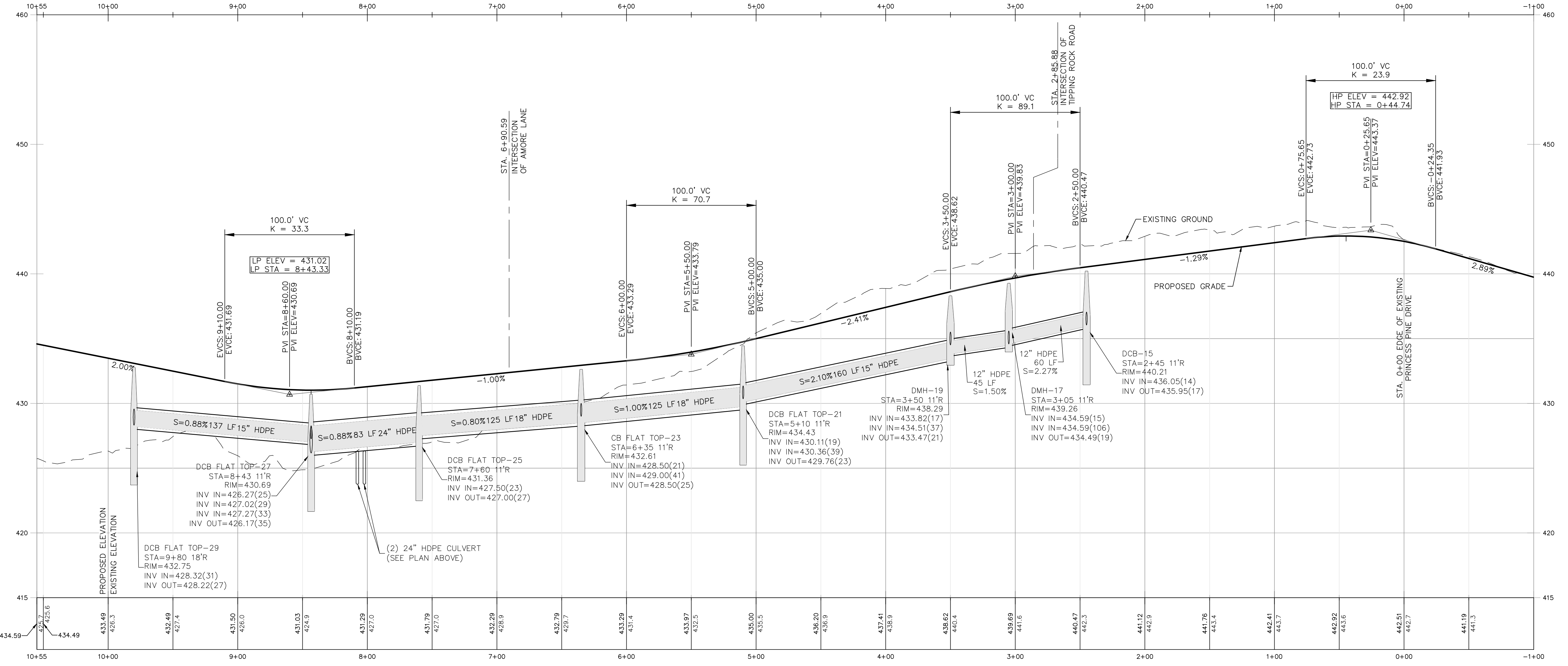
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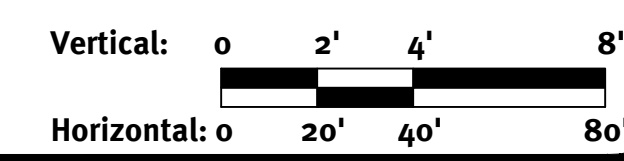


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  - APRON STONE, WHERE REQUIRED, TO BE RIDOT STD. 7.1.7 OR 7.1.8.
  - HEADWALLS TO BE RIDOT STD. 2.1.0.



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|            |                                 |             |     |                   |
|------------|---------------------------------|-------------|-----|-------------------|
| 02/23/2021 | Phase 1 - Final Plan Submission | SP          | Dr. | Design By: M.S.C. |
| 1/23       | Date                            | Description |     |                   |
| 02/23/2021 | Phase 1 - Final Plan Submission | SP          | Dr. | Design By: M.S.C. |

**Plan & Profile - Princess Pine Drive**  
**Highland Woods**  
Assessor: Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818

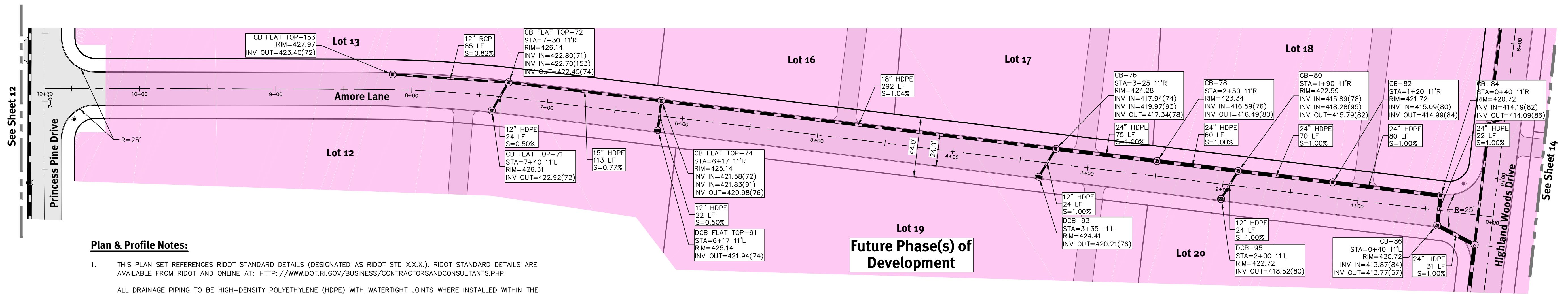
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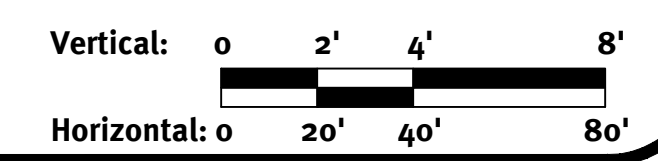
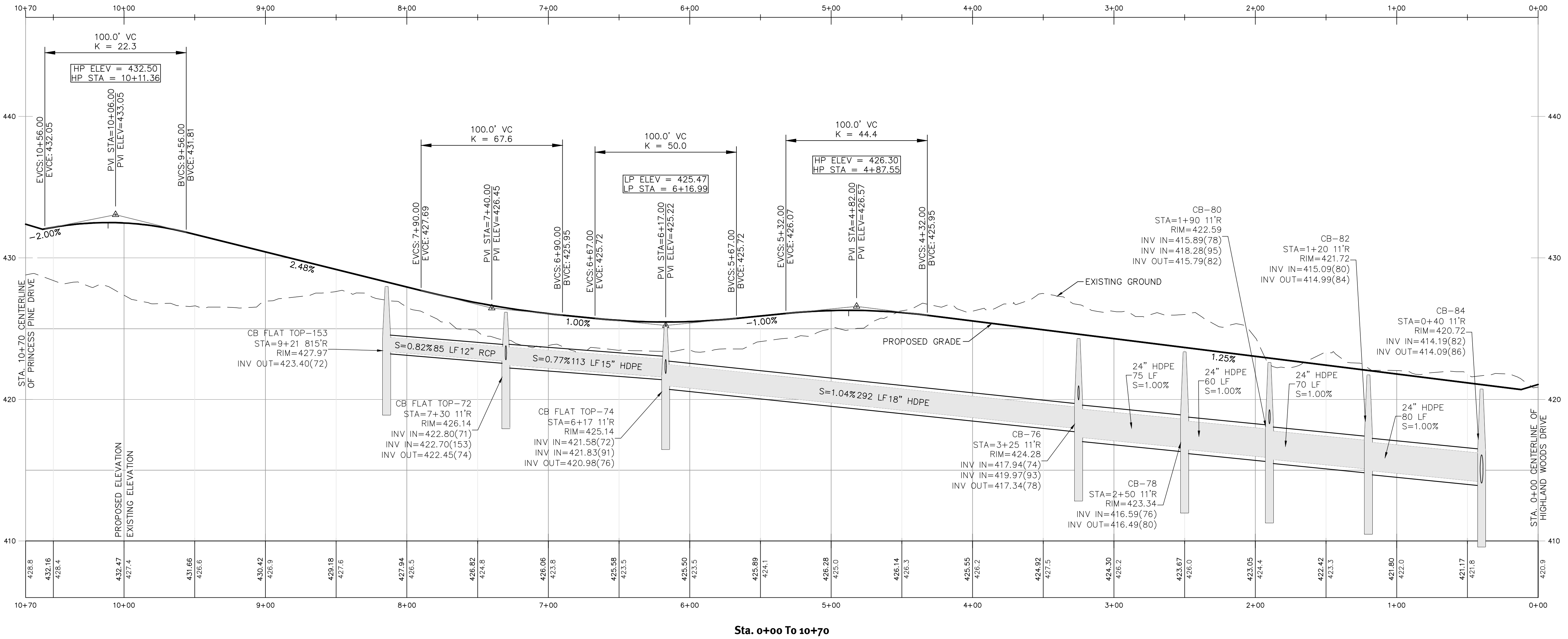
SHEET 12 OF 18

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|            |                                 |     |                   |
|------------|---------------------------------|-----|-------------------|
| 02/23/2021 | Phase 1 - Final Plan Submission | Dr. | Design By: M.S.C. |
| 02/23/2021 | Drawn                           | Dr. |                   |

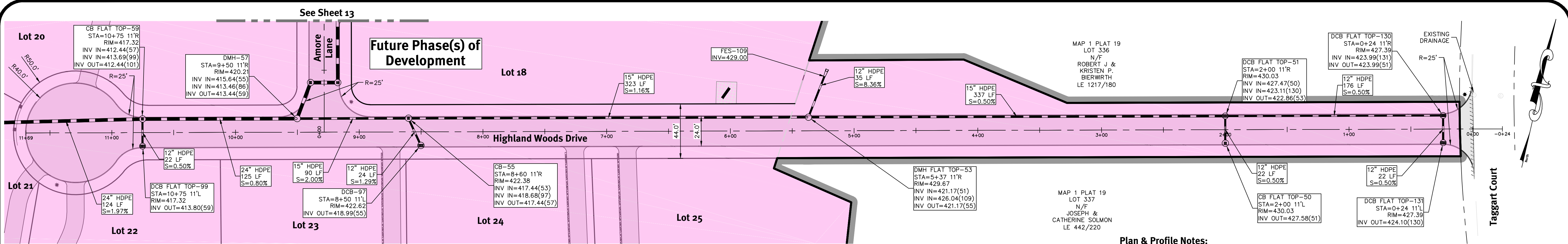
**Plan & Profile - Amore Lane**  
**Highland Woods**  
 Assessor's Map 7 Plat 19, Lots 12 & 156  
 East Greenwich, Rhode Island 02818

**Owner & Applicant**  
**GSA Properties, LLC**  
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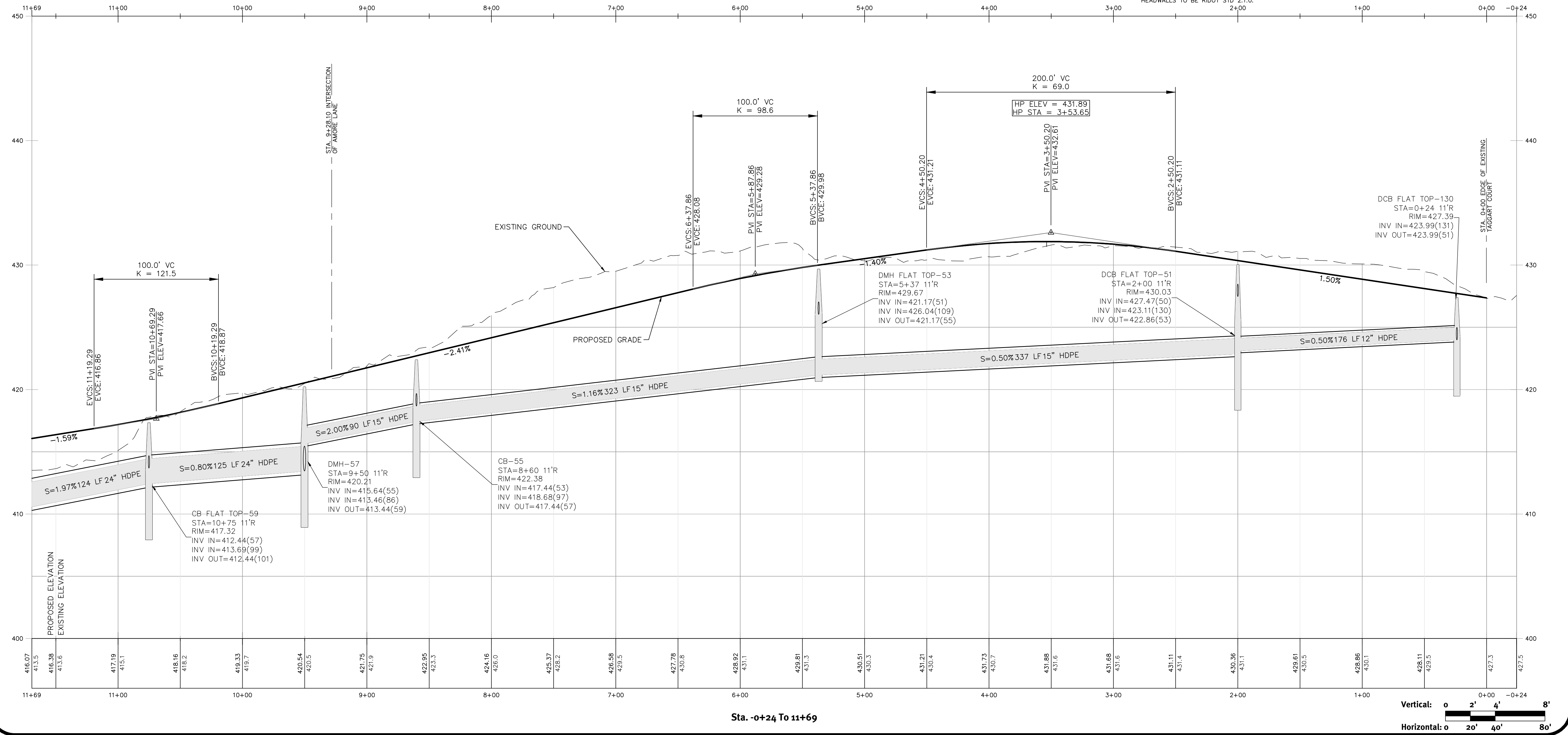
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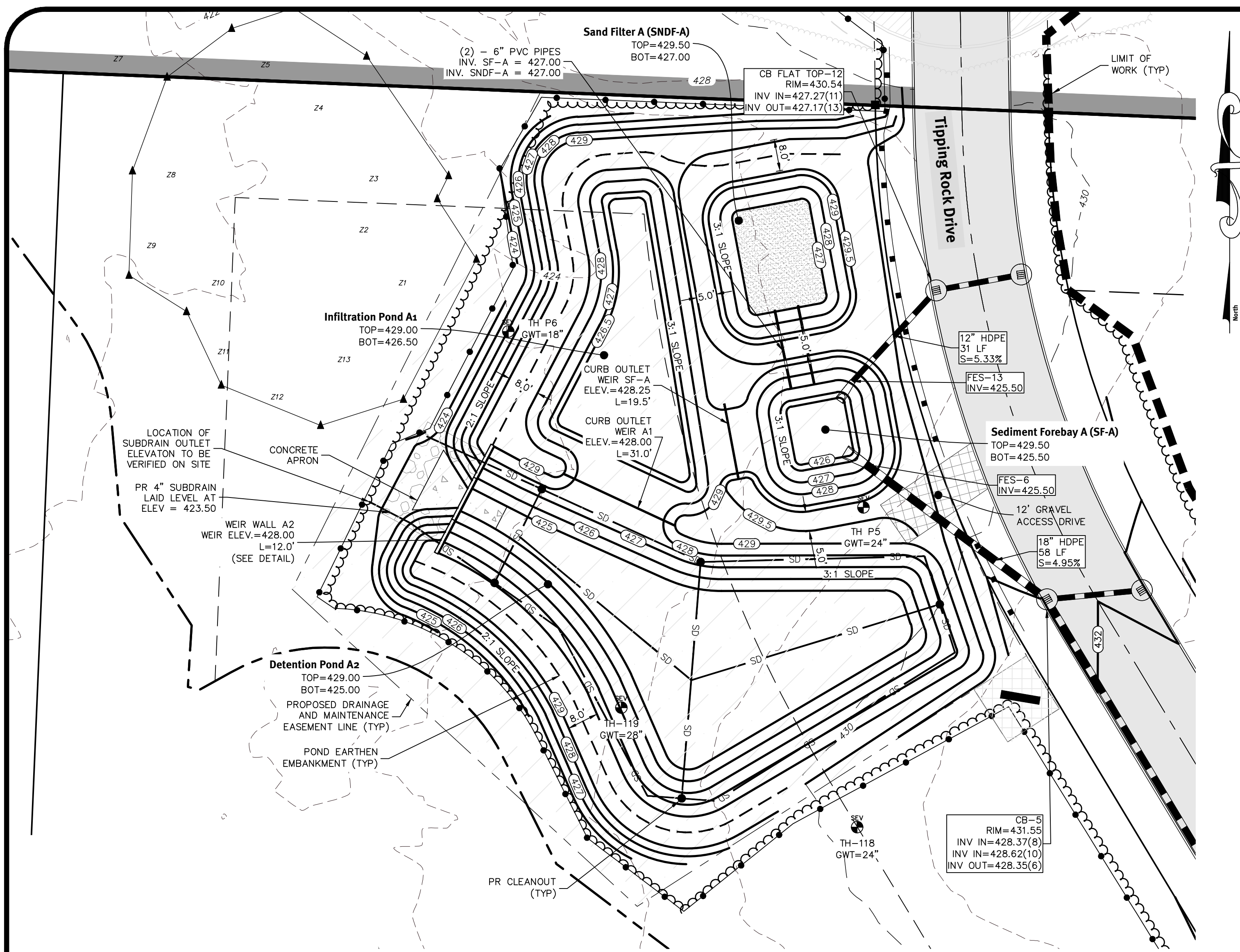
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|            |                                 |                   |
|------------|---------------------------------|-------------------|
| 09/27/2023 | Phase 1 - Final Plan Submission | SR                |
| 1/23       | Date                            | Dr.               |
|            | Drawn By: J.A.R.                | Design By: M.S.C. |

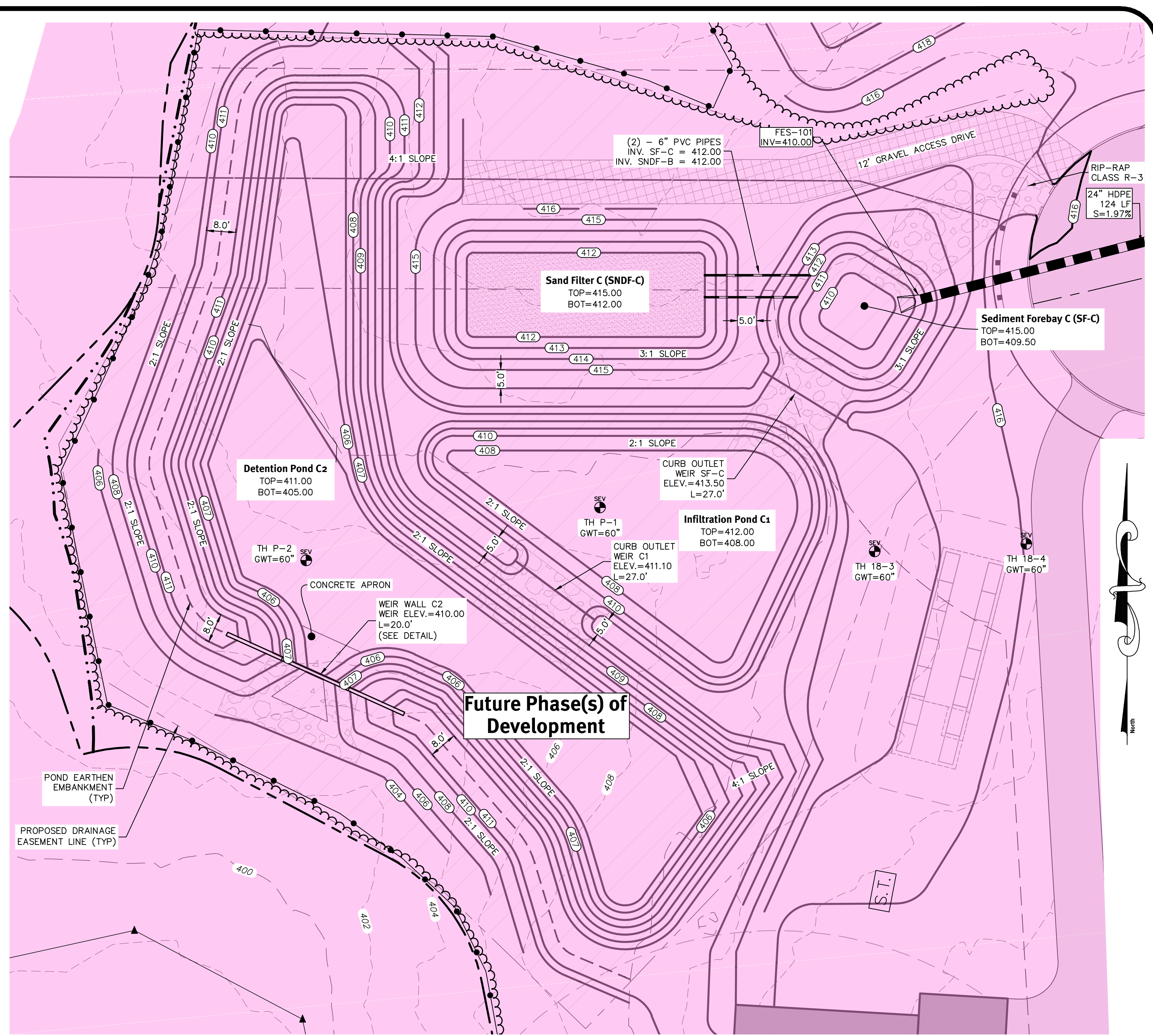
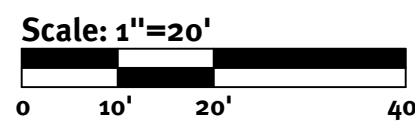
**Plan & Profile - Highland Woods Drive**  
**Highland Woods**  
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**GSA Properties, LLC**  
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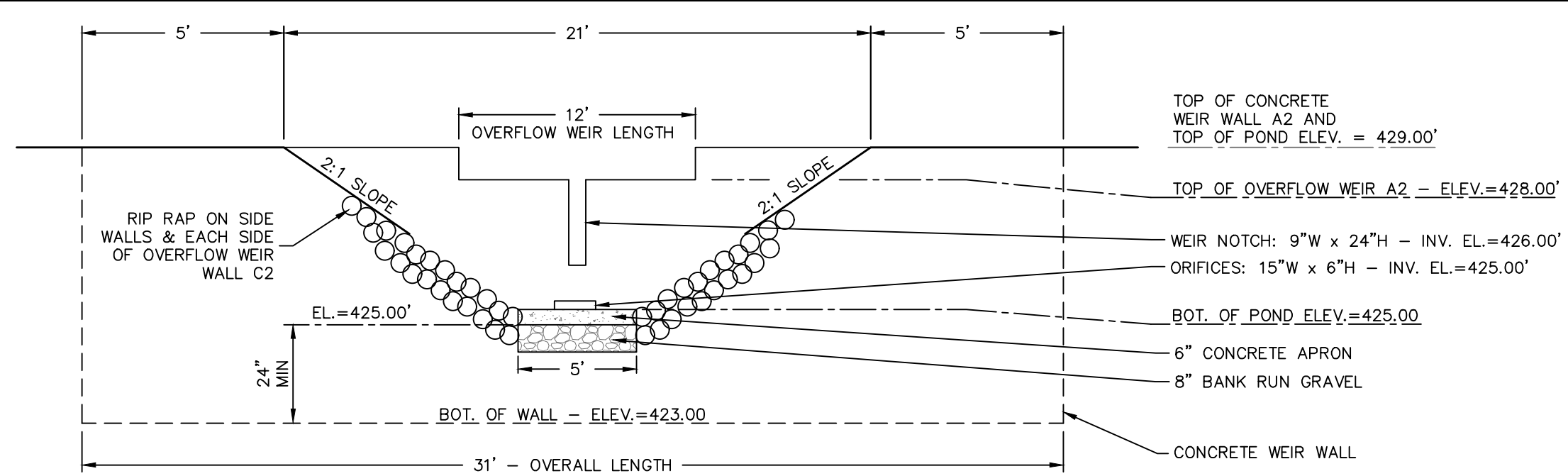
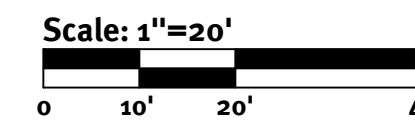
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Drainage System A



Drainage System C

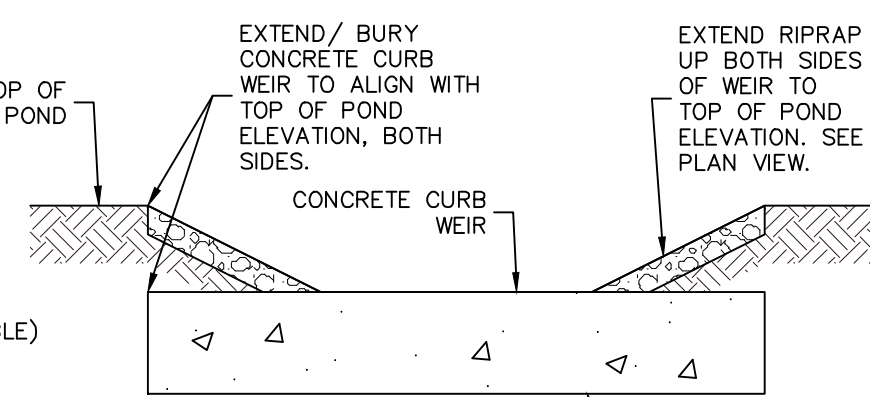


Weir Wall A2 Detail  
NOT TO SCALE

CONCRETE WEIR WALL MUST BE DESIGNED AND STAMPED BY A STRUCTURAL R.I. P.E.

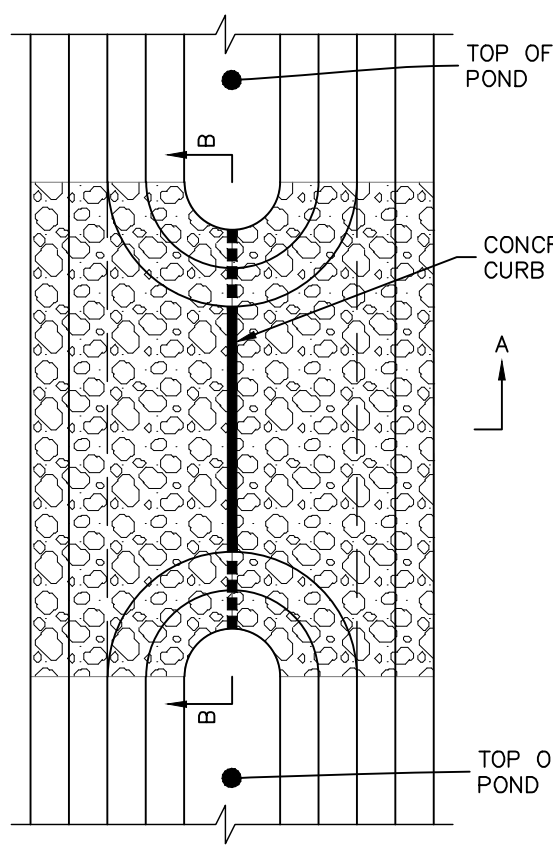
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO DIPRETE ENGINEERING OR OWNER FOR APPROVAL PRIOR TO CONSTRUCTION

| LOCATION | TOP OF POND ELEV. | WEIR INVERT | WEIR DEPTH | RIPRAP CLASS |
|----------|-------------------|-------------|------------|--------------|
| SF-A     | 429.50'           | 428.25'     | 1.25'      | -            |
| A2       | 429.00'           | 428.00'     | 1.00'      | -            |
| SF-B     | 431.00'           | 429.10'     | 1.90'      | -            |
| SF-C     | 415.00'           | 413.50'     | 1.50'      | R-3          |
| C1       | 412.00'           | 411.00'     | 1.00'      | R-3          |

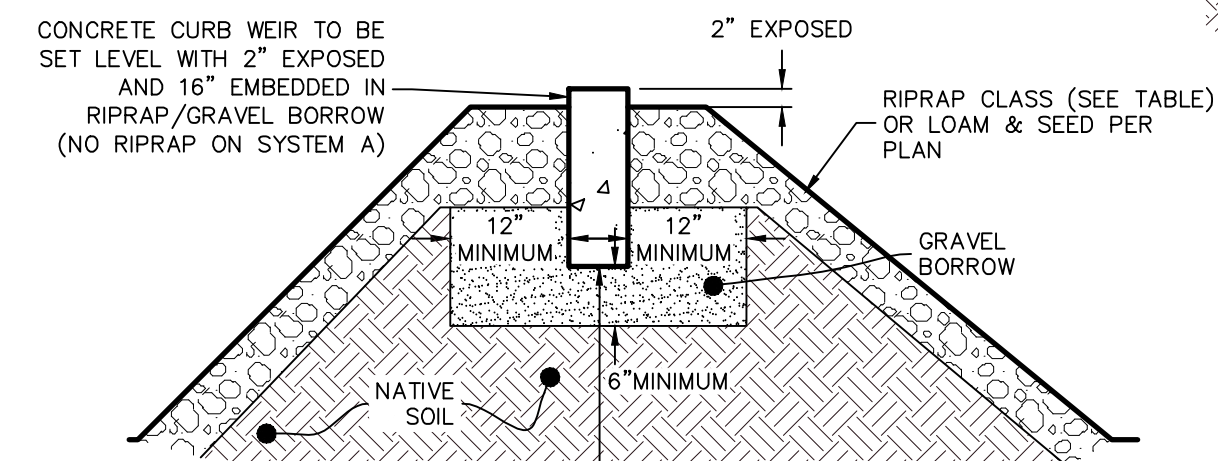


SECTION B-B  
NOT TO SCALE

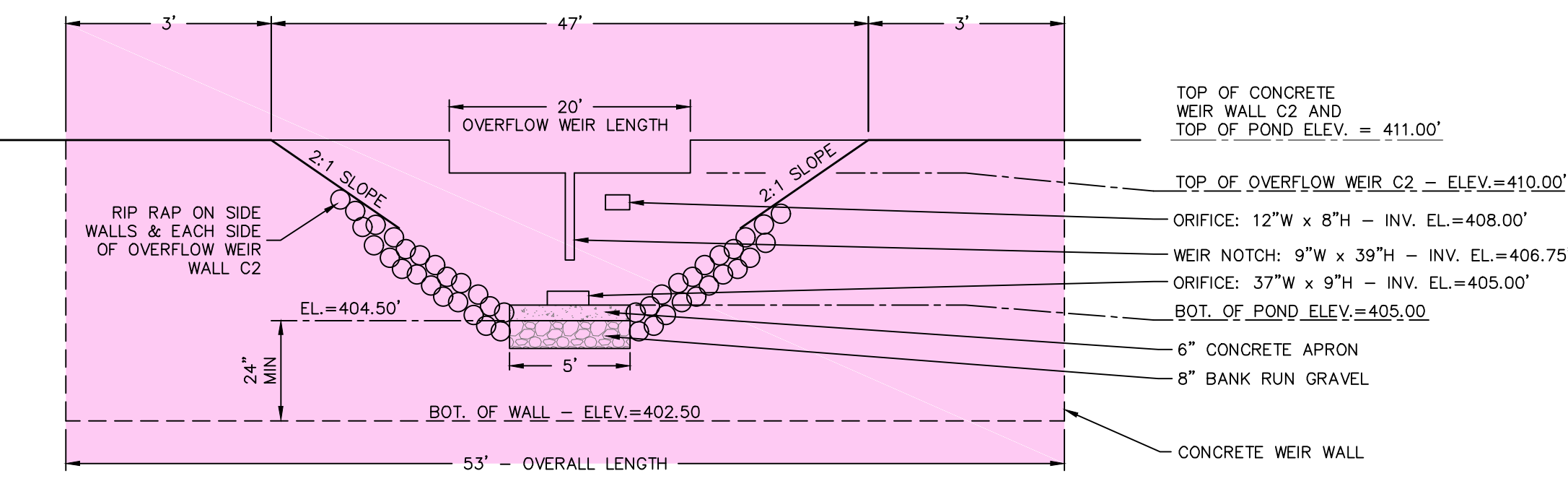
NOTE: ALL CONCRETE CURB WEIRS MUST BE MONOLITHIC. CONCRETE CURB WEIRS CANNOT BE MULTIPLE PRECAST CURBS JOINED IN SEQUENCE.



PLAN VIEW  
NOT TO SCALE



SECTION A-A  
Curb Outlet Weir Cross Section  
NOT TO SCALE



Weir Wall C2 Detail  
NOT TO SCALE

CONCRETE WEIR WALL MUST BE DESIGNED AND STAMPED BY A STRUCTURAL R.I. P.E.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO DIPRETE ENGINEERING OR OWNER FOR APPROVAL PRIOR TO CONSTRUCTION

**Diprete Engineering**  
Two Stafford Court Cranston, RI 02920  
tel 401-943-1000 fax 401-664-6006 www.diprete-eng.com

**Boston • Providence • Newport**

**AUDIE D. OSGOOD**  
No. 9313  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

This plan set must not be used for construction purposes unless stamped, issued for construction, and stamped by a registered professional engineer of Diprete Engineering.  
Diprete Engineering and its employees shall not be held responsible for any errors or omissions in this plan set. Diprete Engineering does not warrant plans by any other party.  
The contractor is responsible for all of the means, methods, materials, and safety of construction. Diprete Engineering is not responsible for any damage to existing utilities or other property.  
Diprete Engineering assumes no responsibility for damages incurred due to implementation of this plan and design.  
Locations of existing utilities. See Utility Note on sheet 3.

| NO.        | DATE | DESCRIPTION                     | DESIGN BY |
|------------|------|---------------------------------|-----------|
| 02/22/2021 |      | Phase 1 - Final Plan Submission | M.S.C.    |
| 02/22/2021 |      | Phase 1 - Final Plan Submission | M.S.C.    |

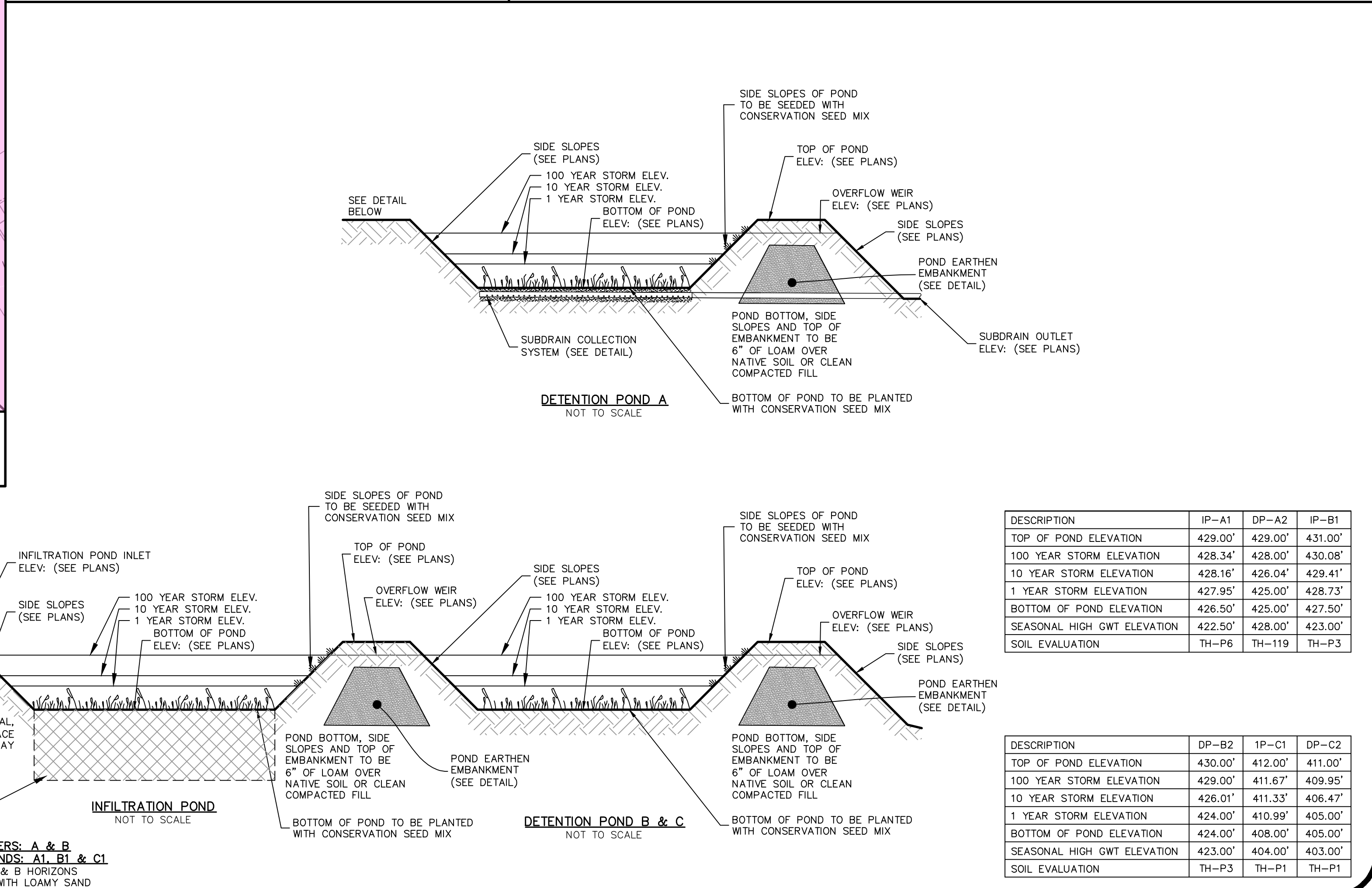
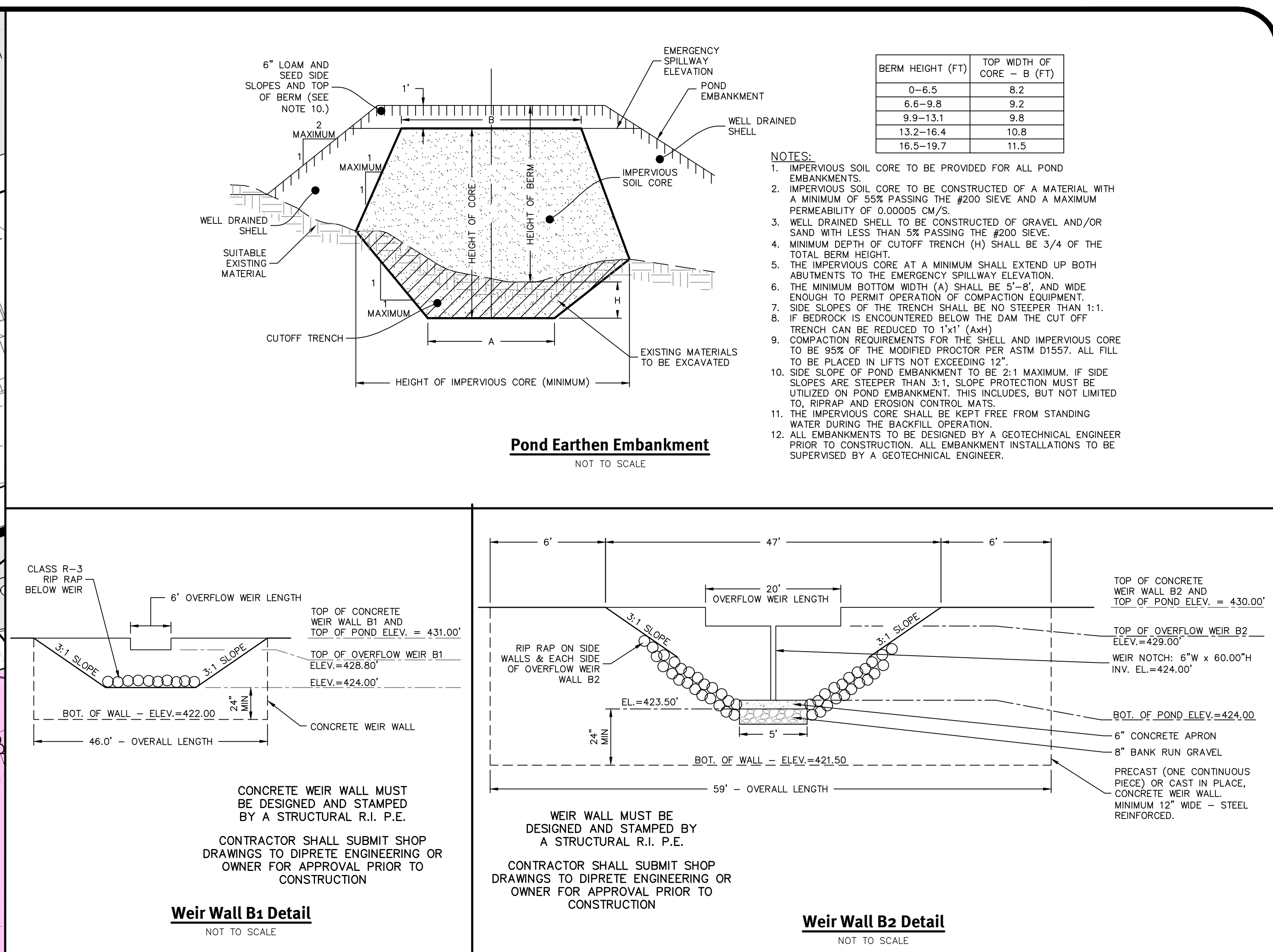
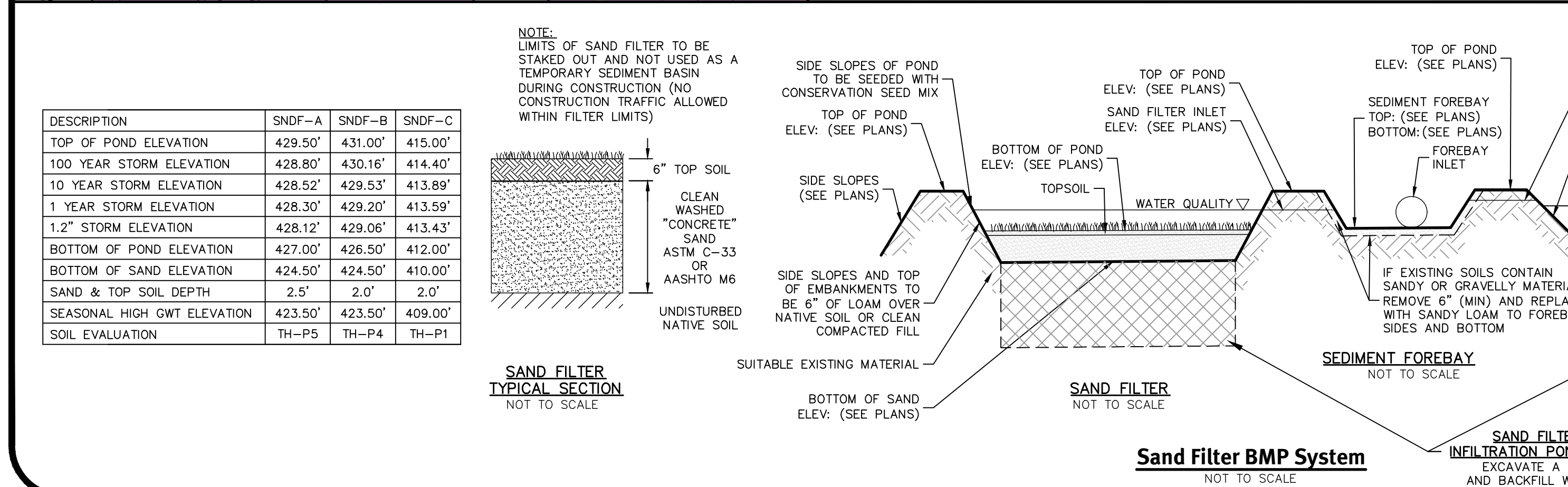
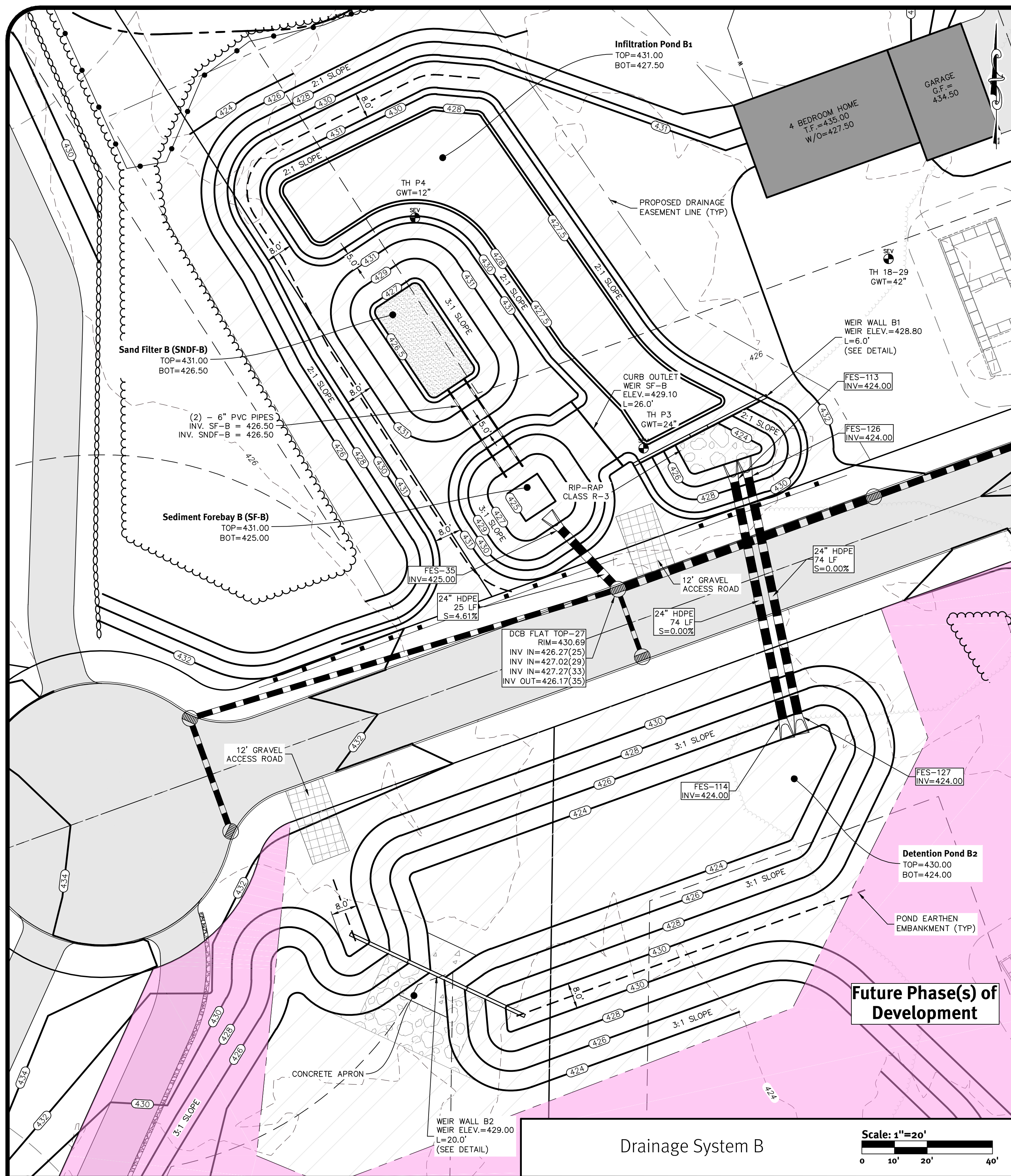
**Pond A & C - Detail Sheet**

**Highland Woods**  
Assessor's Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818

**GSA Applicant**  
50 Natick Avenue  
Providence, Rhode Island 02907

**GSA Properties, LLC**  
Design By: M.S.C.

DE JOB No. 2406-001-AD1 Copyright 2018 by Diprete Engineering Associates, Inc.



| BERM HEIGHT (FT) | TOP WIDTH OF CORE - B (FT) |
|------------------|----------------------------|
| 0-6.5            | 8.2                        |
| 6.6-9.8          | 9.2                        |
| 9.9-13.1         | 9.8                        |
| 13.2-16.4        | 10.8                       |
| 16.5-19.7        | 11.5                       |

- NOTES:**
- IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS.
  - IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF A MATERIAL WITH A MINIMUM OF 55% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.0005 CM/S.
  - WELL DRAINED SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
  - MINIMUM DEPTH OF CUTOFF TRENCH (H) SHALL BE 3/4 OF THE TOTAL BERM HEIGHT.
  - THE IMPERVIOUS CORE AT A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
  - THE MINIMUM BOTTOM WIDTH (A) SHALL BE 5'-8", AND WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
  - SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.
  - IF BEDROCK IS ENCOUNTERED BELOW THE DAM THE CUT OFF TRENCH CAN BE REDUCED TO 1'x1' (AxB).
  - COMPACTION REQUIREMENTS FOR THE SHELL AND IMPERVIOUS CORE TO BE 95% OF THE MODIFIED PROCTOR PER ASTM D1557. ALL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 12".
  - SIDE SLOPE OF POND EMBANKMENT TO BE 2:1 MAXIMUM. IF SIDE SLOPES ARE STEEPER THAN 3:1, SLOPE PROTECTION MUST BE UTILIZED ON POND EMBANKMENT. THIS INCLUDES, BUT NOT LIMITED TO, RIPRAP AND EROSION CONTROL MATS.
  - THE IMPERVIOUS CORE SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.
  - ALL EMBANKMENTS TO BE DESIGNED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION. ALL EMBANKMENT INSTALLATIONS TO BE SUPERVISED BY A GEOTECHNICAL ENGINEER.

**Diprete Engineering**  
Two Stafford Court Cranston, RI 02920  
tel 401-943-1000 fax 401-644-6006 www.diprete-eng.com

**AUDIE D. OSGOOD**  
No. 9313  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

**Highland Woods**  
Assessor's Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818

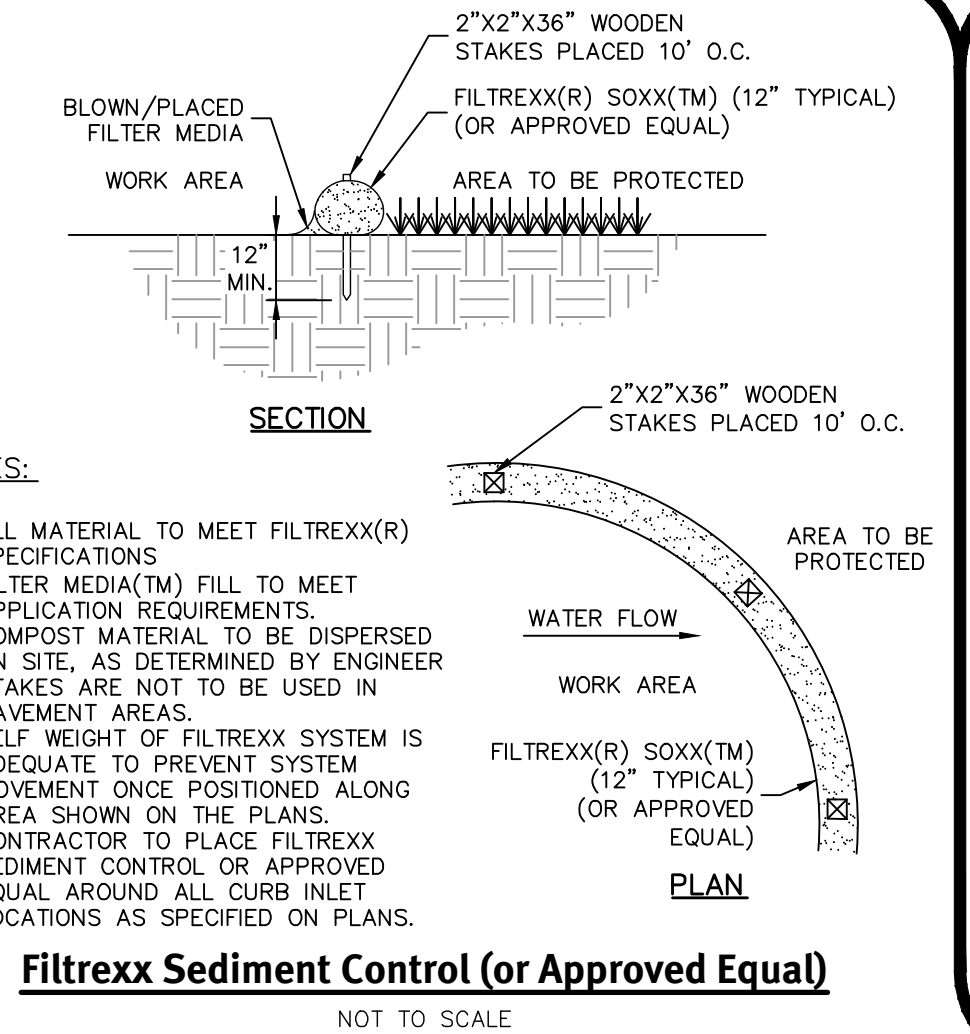
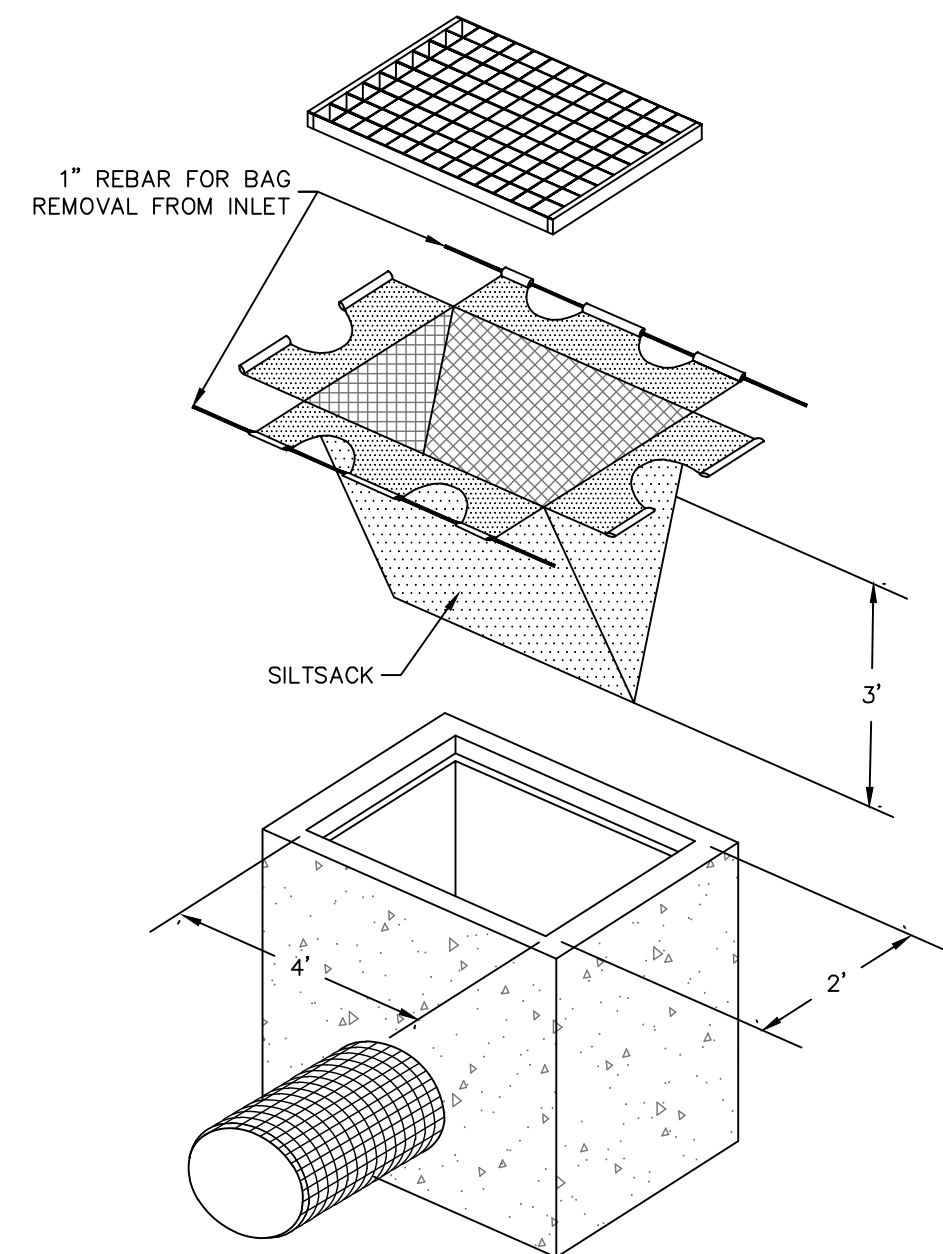
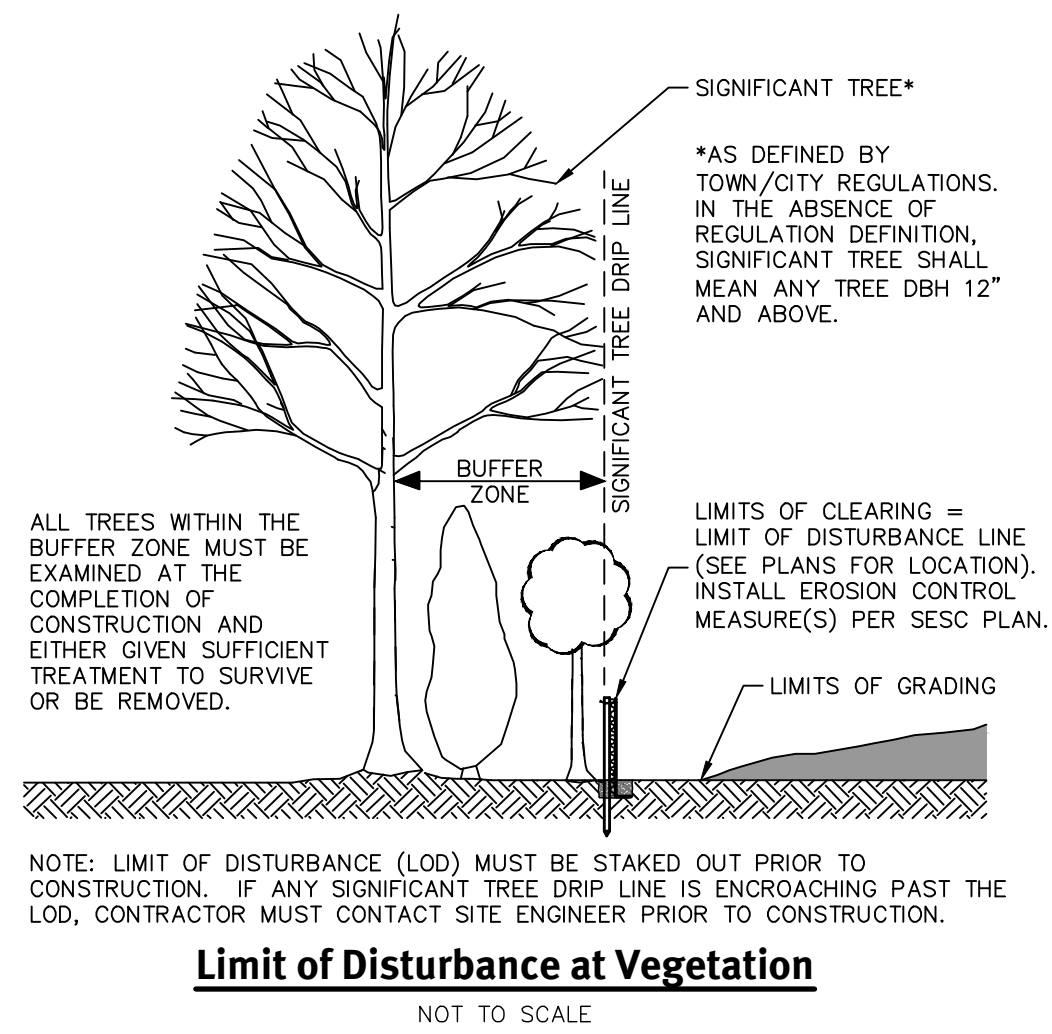
**GSA Properties, LLC**  
50 Nantatic Avenue  
Providence, Rhode Island 02907

**Pond B - Detail Sheet**

DESIGN BY: M.S.C.  
DRAWN BY: J.A.C.  
DATE: 02/22/2023  
PHASE: Final Plan Submission

SHEET 16 OF 18

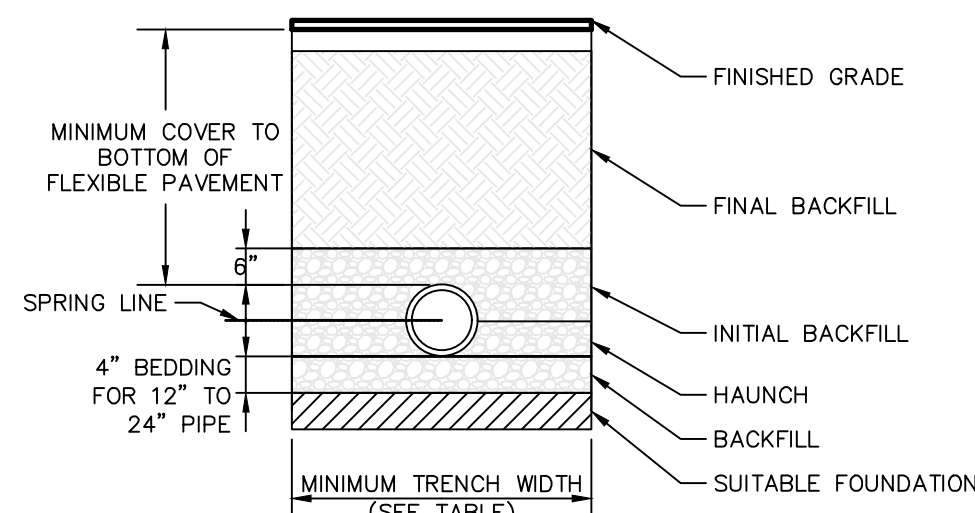




**INSTALLATION NOTES:**

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS, LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100MM) FOR 4"-24" (100MM-600MM); 6" (150MM) FOR 30"-60" (750MM-900MM).
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" Ø PIPE AND 24" OF COVER FOR 54"-60" Ø PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

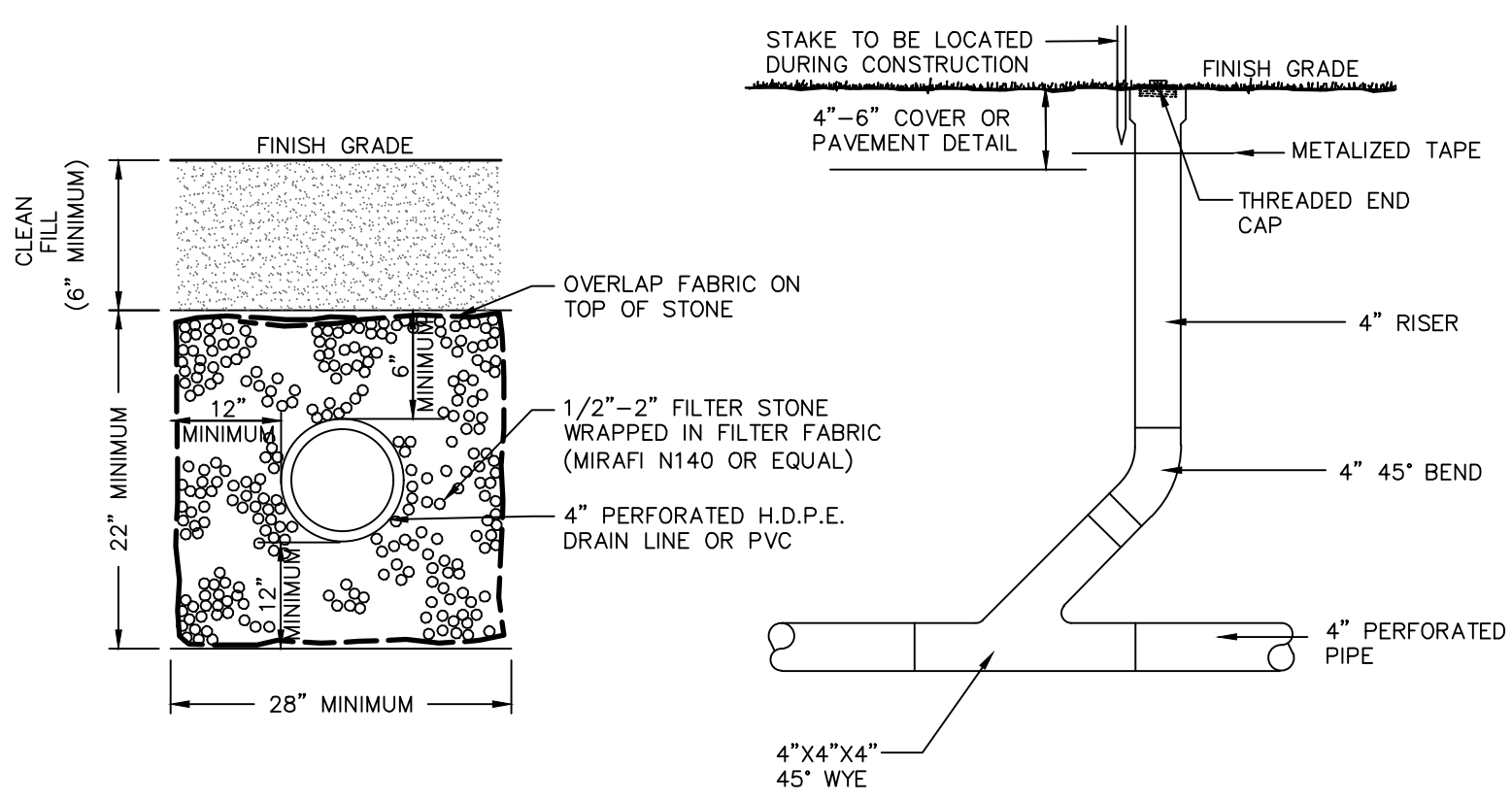
| PIPE Ø | MINIMUM TRENCH WIDTH |
|--------|----------------------|
| 6"     | 23"                  |
| 8"     | 26"                  |
| 12"    | 30"                  |
| 15"    | 34"                  |
| 24"    | 39"                  |



**HDPE Trench Detail**

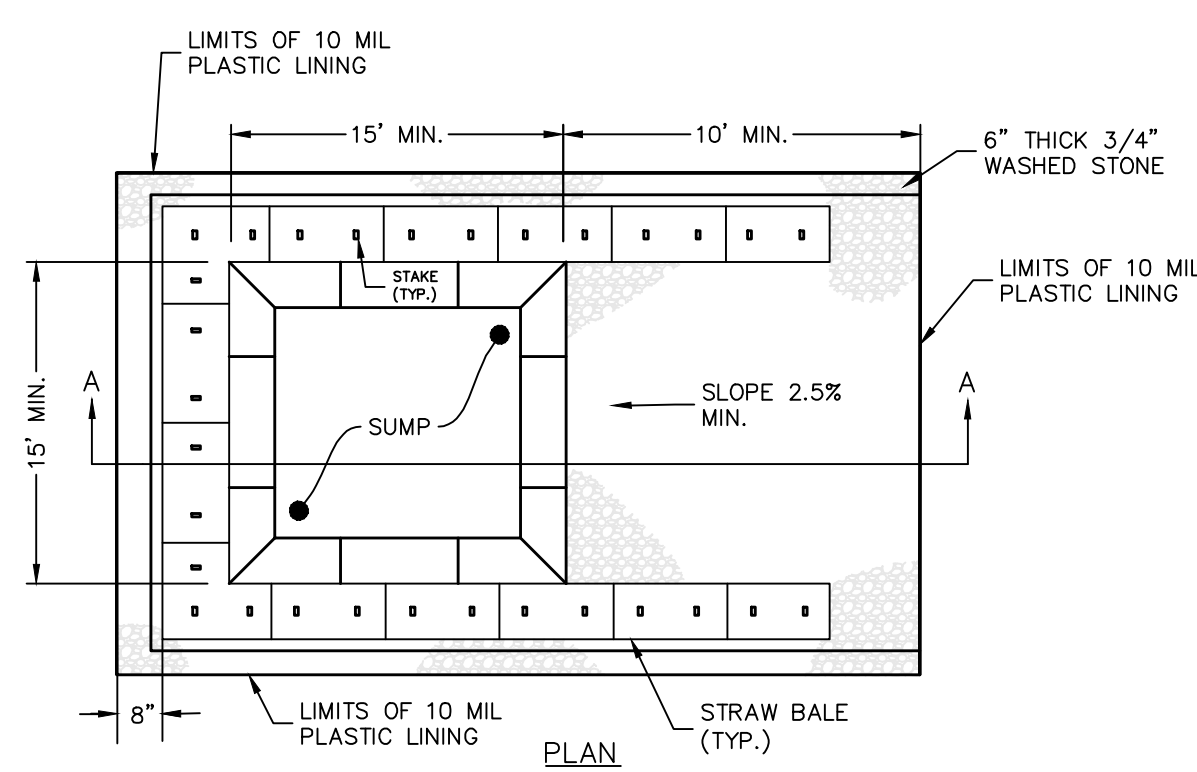
NOT TO SCALE

- NOTES:**
- ENCASE CLEANOUT IN CONCRETE WHEN INVERT IS 12" OR MORE BELOW FINISH GRADE.
  - AT TERMINAL CLEANOUT REPLACE WYE WITH 45° BEND.
  - SUBDRAIN AREA TO BE STAKED, MARKED, AND REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. THERE IS TO BE NO CONSTRUCTION TRAFFIC ON SUBDRAIN AREA PRIOR TO CONSTRUCTION.



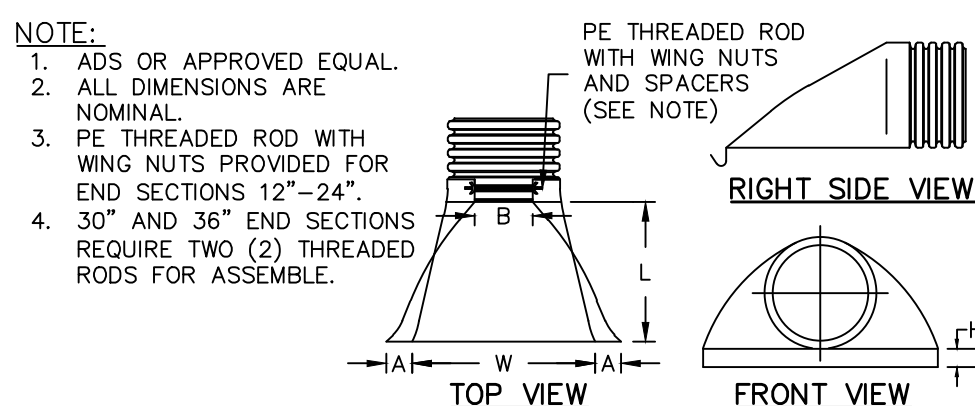
**4" Subdrain (Underdrain) Cleanout And Trench (TYP)**

NOT TO SCALE



**Concrete Washout Area**

NOT TO SCALE



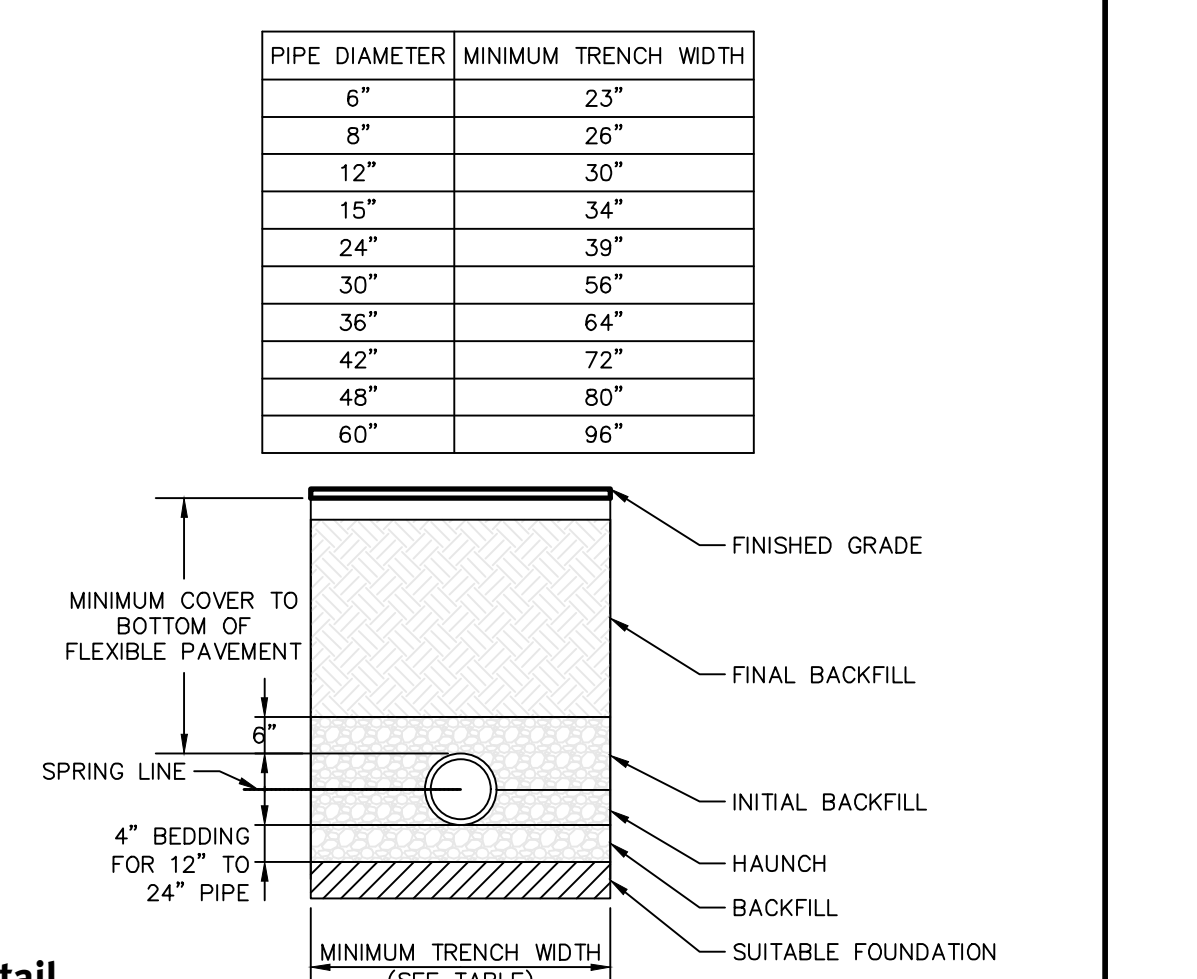
| PART #  | PIPE SIZE      | A                | B (MAX)        | H                | L               | W               |
|---------|----------------|------------------|----------------|------------------|-----------------|-----------------|
| 1210NP  | 12 IN (300 MM) | 6.50 IN (165 MM) | 10 IN (254 MM) | 6.50 IN (165 MM) | 25 IN (635 MM)  | 29 IN (737 MM)  |
| 1510NP  | 15 IN (375 MM) | 6.50 IN (165 MM) | 10 IN (254 MM) | 6.50 IN (165 MM) | 25 IN (635 MM)  | 29 IN (737 MM)  |
| 1810 NP | 18 IN (450 MM) | 7.50 IN (191 MM) | 15 IN (381 MM) | 6.50 IN (165 MM) | 32 IN (813 MM)  | 35 IN (889 MM)  |
| 2410NP  | 24 IN (600 MM) | 7.50 IN (191 MM) | 18 IN (457 MM) | 6.50 IN (165 MM) | 36 IN (914 MM)  | 45 IN (1143 MM) |
| 3015NP  | 30 IN (750 MM) | 7.50 IN (191 MM) | 22 IN (559 MM) | 8.60 IN (218 MM) | 58 IN (1473 MM) | 63 IN (1600MM)  |
| 3615NP  | 36 IN (900 MM) | 7.50 IN (191 MM) | 25 IN (635 MM) | 8.60 IN (218 MM) | 58 IN (1473 MM) | 63 IN (1600 MM) |

**HDPE Flared End Section**

NOT TO SCALE

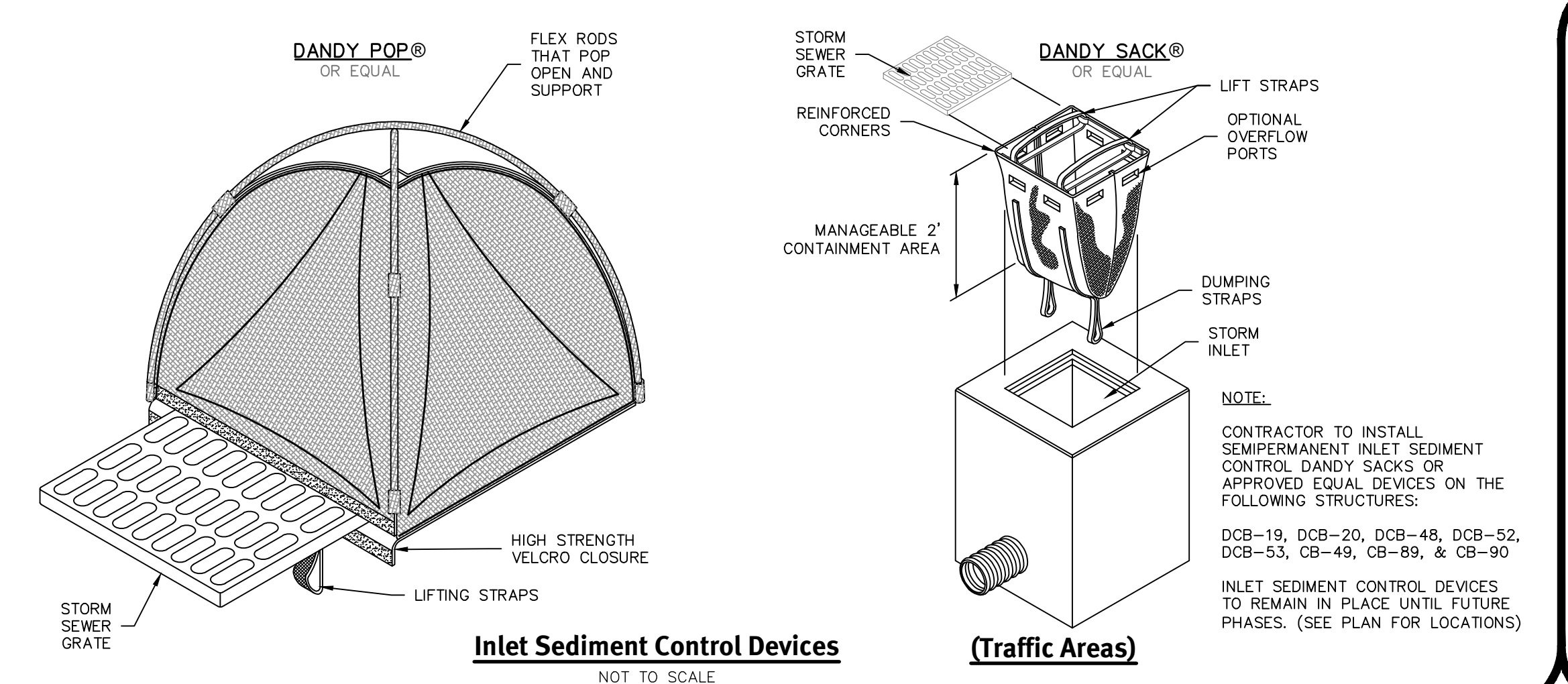
**HDPE INSTALLATION NOTES:**

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS, LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100MM) FOR 4"-24" (100MM-600MM); 6" (150MM) FOR 30"-60" (750MM-900MM).
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.



**HDPE Trench Detail**

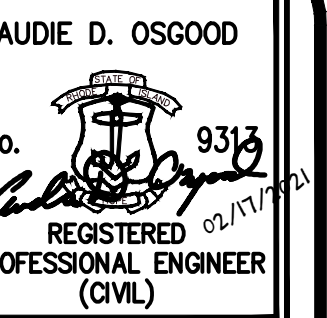
NOT TO SCALE



**Inlet Sediment Control Devices**

NOT TO SCALE

**(Traffic Areas)**



This plan set must not be used for construction purposes unless stamped, issued for construction, and stamped by a registered professional engineer of the State of Rhode Island.

Engineering: DPRETE ENGINEERING, 50 NANTIC AVENUE, PROVIDENCE, RHODE ISLAND 02907. PHONE: 401-464-6006 FAX: 401-464-6006 WWW.DIPRETE-ENG.COM

The contractor is responsible for all of the means, methods, safety and implementation of this plan and design.

Engineer's office shares on this plan are approximate only. DPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED DUE TO locations of existing utilities. See Utility Note on sheet 3.

Phase 1 - Final Plan Submission

Date: 09/27/2024

Drawn By: I.A.C.

Design By: M.S.C.

S.E. D.P.

**Detail Sheet - 1**

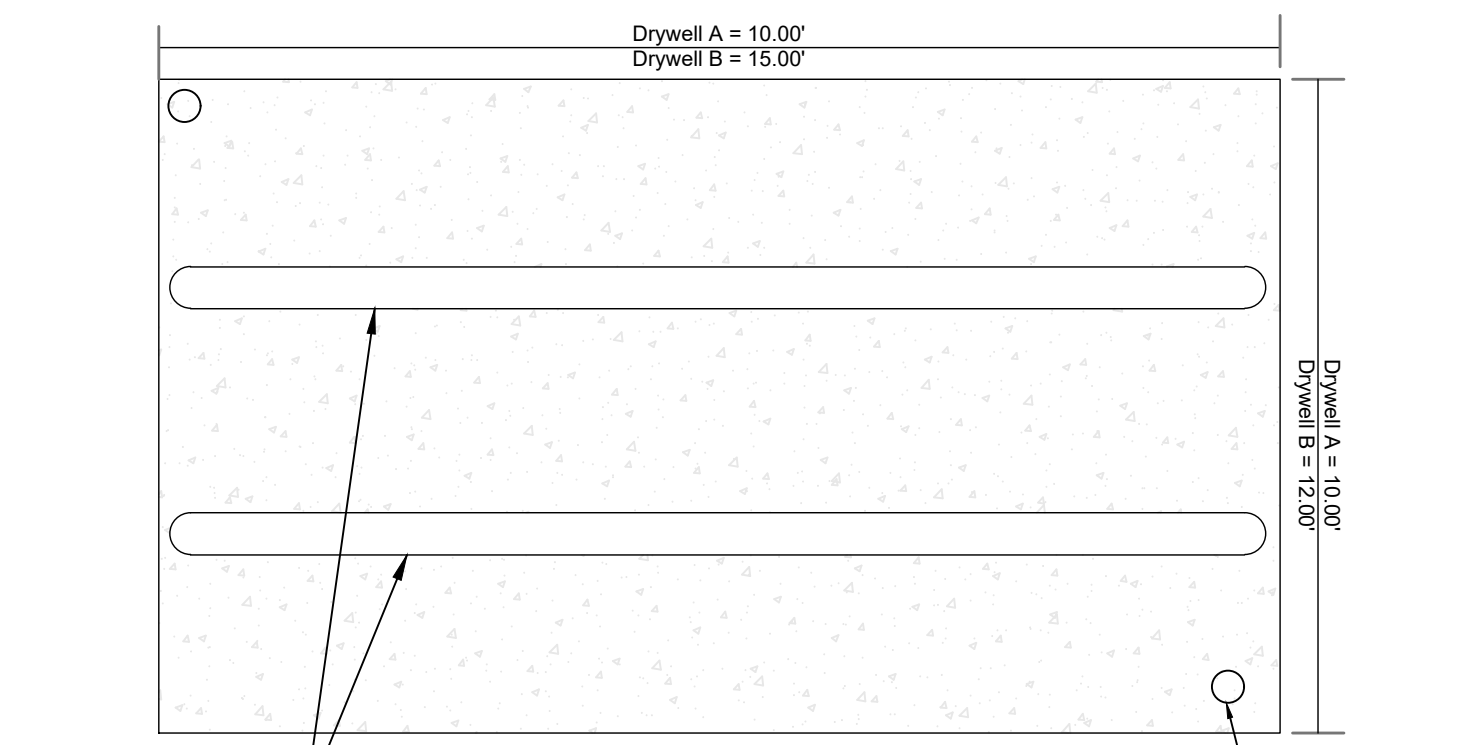
**Highland Woods**

Assessor's Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818

**GSA Properties, LLC**

50 NANTIC AVENUE  
PROVIDENCE, RHODE ISLAND 02907

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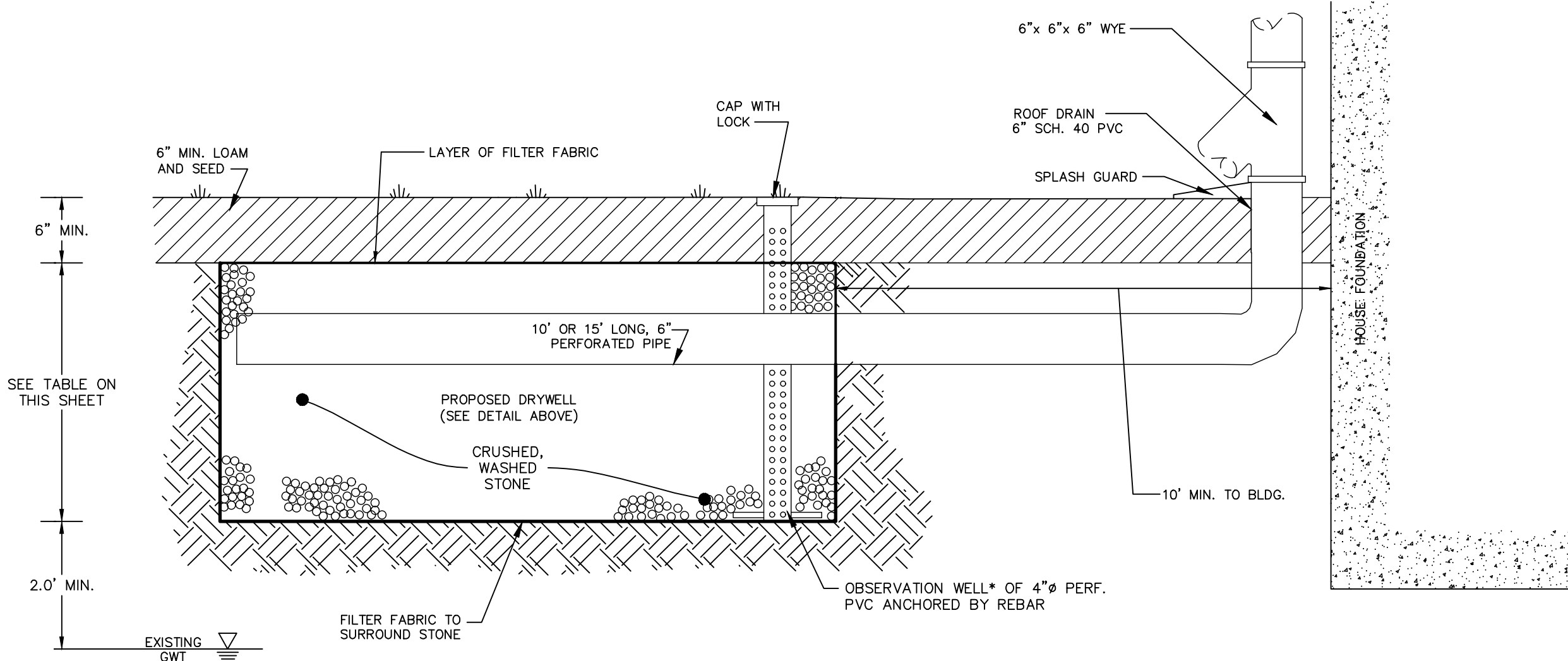


**House Drywell Detail (Plan)**  
NOT TO SCALE

(2) - 10' OR 15' LONG, 6" PERFORATED PIPE  
INSPECTION PORT

**CONSTRUCTION, MAINTENANCE, & INSPECTION NOTES:**

1. ROOF LEADERS ARE TO TIE INTO PROPOSED DRYWELLS.
2. DRYWELL AREA TO BE STAKED, MARKED, AND REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. THERE IS TO BE NO CONSTRUCTION TRAFFIC ON DESIGNATED AREA PRIOR TO CONSTRUCTION.
3. PLACE FILTER FABRIC ALONG THE BOTTOM AND SIDES OF TRENCH AND FILL WITH CRUSHED, WASHED STONE.
4. OVERLAP FILTER FABRIC ON THE TOP OF THE FILTER STONE. BACK FILL WITH CLEAN FILL TO FINISH GRADE.
5. (\*) MONITORING WATER LEVELS WITHIN THE INSPECTION PORT AT VARIOUS TIME INTERVALS AFTER A RAINFALL EVENT WILL INDICATE THE EFFECTIVENESS OF THE SYSTEM. IF WATER IS STANDING IN DRYWELL SYSTEM 72 HOURS AFTER A STORM EVENT, SYSTEM FAILURE HAS OCCURRED AND WILL REQUIRE FLUSHING MAINTENANCE, REPAIR OR REPLACEMENT OF THE SYSTEM. THE OWNER WILL MAINTAIN THE DRAINAGE COMPONENTS.



**House Drywell Connection Detail**  
NOT TO SCALE

6" MIN.

SEE TABLE ON THIS SHEET

2.0' MIN.

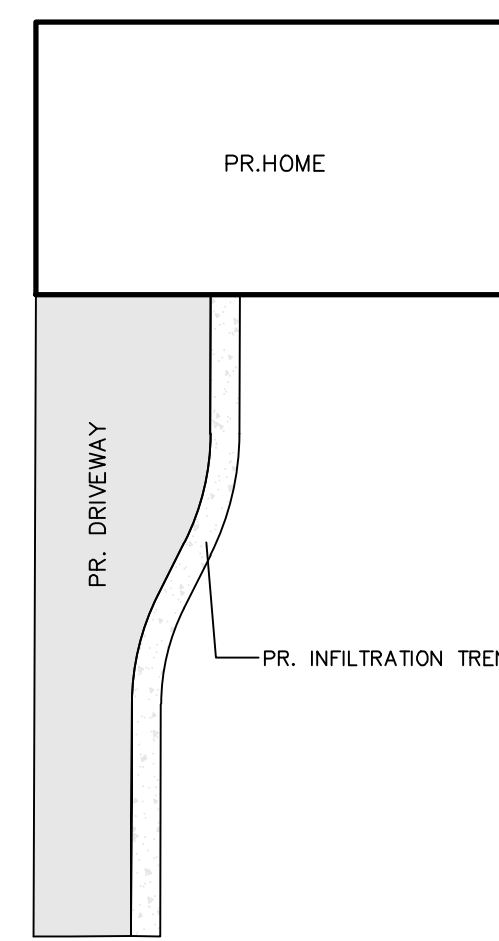
| LOT | PROPOSED GRADING ELEVATION | TOP OF DRYWELL | ELEVATION AT BOTTOM OF DRYWELL | SEASONAL HIGH GWT ELEVATION | SEPARATION DISTANCE (FEET) | DRYWELL (A OR B) | HOUSE TREATMENT AREA  |
|-----|----------------------------|----------------|--------------------------------|-----------------------------|----------------------------|------------------|-----------------------|
| 5   | 428.00                     | 427.50         | 426.50                         | 424.50                      | 2.00                       | A                | BACK OF ROOFTOP (1/2) |
| 6   | 432.50                     | 431.00         | 430.00                         | 427.50                      | 2.50                       | A                | BACK OF ROOFTOP (1/2) |
| 7   | 432.00                     | 431.00         | 430.00                         | 426.00                      | 4.00                       | A                | BACK OF ROOFTOP (1/2) |
| 8   | 426.50                     | 425.50         | 424.50                         | 422.00                      | 2.50                       | A                | BACK OF ROOFTOP (1/2) |
| 9   | 433.00                     | 431.00         | 430.00                         | 427.00                      | 3.00                       | A                | BACK OF ROOFTOP (1/2) |
| 11  | 413.00                     | 411.00         | 410.00                         | 408.00                      | 2.00                       | B                | ENTIRE ROOFTOP        |
| 12  | 428.00                     | 426.00         | 425.00                         | 423.00                      | 2.00                       | A                | BACK OF ROOFTOP (1/2) |
| 19  | 422.50                     | 422.00         | 421.00                         | 417.50                      | 3.00                       | A                | BACK OF ROOFTOP (1/2) |
| 21  | 409.00                     | 407.50         | 406.50                         | 404.00                      | 2.50                       | A                | BACK OF ROOFTOP (1/2) |
| 22  | 420.00                     | 418.00         | 417.00                         | 415.00                      | 2.00                       | A                | BACK OF ROOFTOP (1/2) |
| 23  | 415.00                     | 413.00         | 412.00                         | 410.00                      | 2.00                       | B                | ENTIRE ROOFTOP        |
| 24  | 419.00                     | 418.50         | 417.50                         | 415.33                      | 2.17                       | B                | ENTIRE ROOFTOP        |
| 25  | 424.00                     | 423.00         | 422.00                         | 420.00                      | 2.00                       | B                | ENTIRE ROOFTOP        |

**Drywell Groundwater Separation Table**

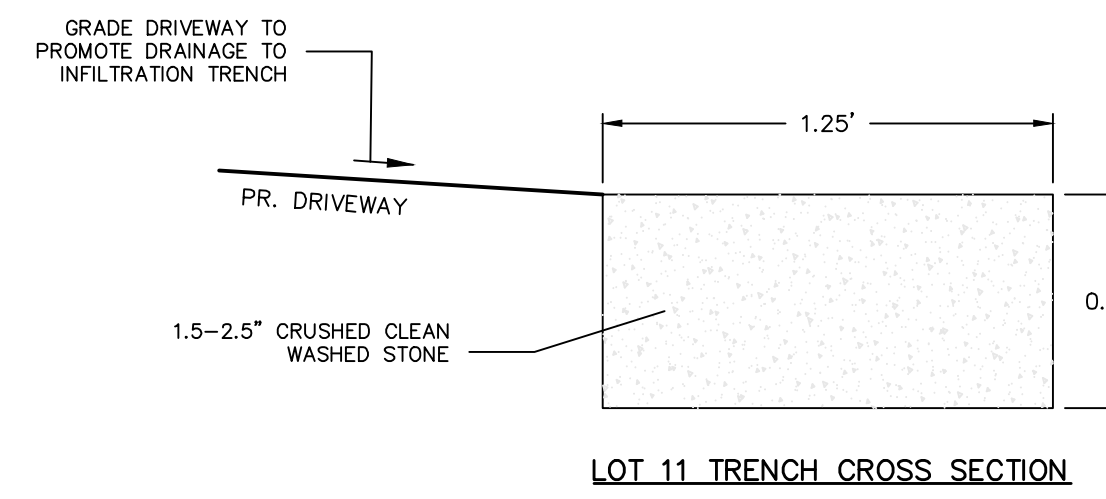
NOT TO SCALE

**Drywell Sizing Notes**

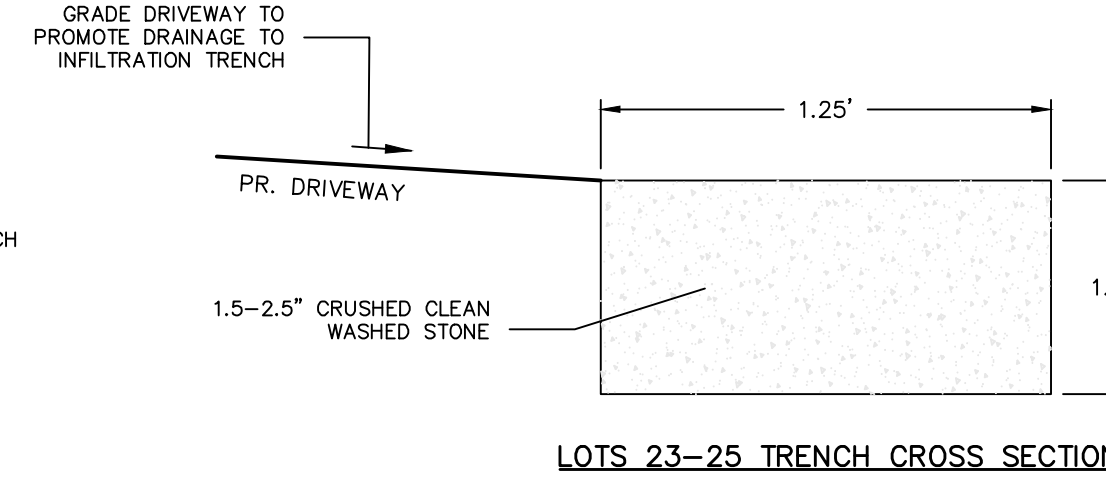
1. THE HOMEOWNER / BUILDING CONTRACTOR IS RESPONSIBLE FOR THE FINAL SIZING, LOCATION AND OPERATION FROM GROUNDWATER FOR THE HOUSE DRYWELL.
2. FOR THE LOTS SPECIFIED TO HAVE DRYWELLS, ANY OF THE REQUIRED ROOFTOP RUNOFF NOT DIRECTED TO A PUBLIC STREET OR STORMWATER BASIN SHALL BE PIPED TO THE STONE DRYWELL OR OTHER RIDEM APPROVED WATER QUALITY TREATMENT PRACTICE.
3. DRYWELLS SHALL BE SIZED TO PROVIDE 85 SF OF DRYWELL PER 1000 SF OF CONTRIBUTING ROOFTOP AREA. THIS SIZING IS FOR 1' DEEP DRYWELLS ONLY. CHANGE IN DRYWELL DEPTH SHALL REQUIRE DESIGN BY A REGISTERED PROFESSIONAL ENGINEER.



**PLAN VIEW**



**LOT 11 TRENCH CROSS SECTION**



**LOTS 23-25 TRENCH CROSS SECTION**

**Infiltration Trench Detail**

NOT TO SCALE

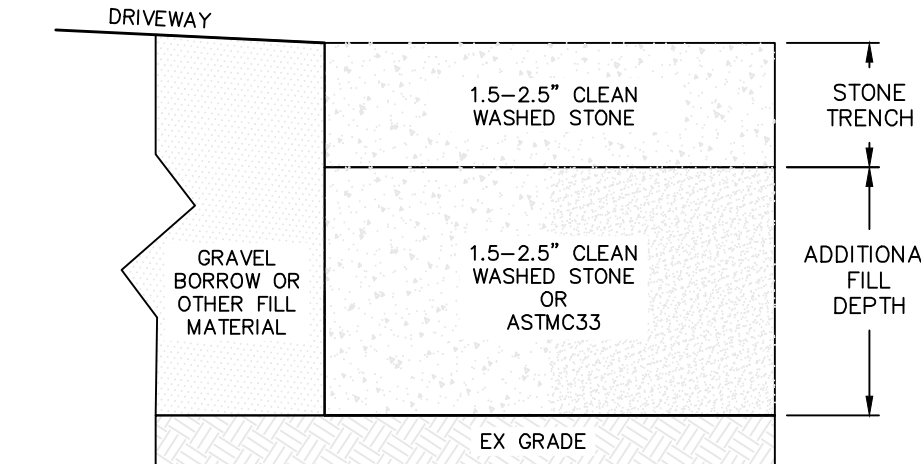
| LOT | MINIMUM DRIVEWAY ELEVATION | GWT ELEVATION | MINIMUM SEPARATION DISTANCE (FEET) |
|-----|----------------------------|---------------|------------------------------------|
| 11  | 422.00                     | 416.00        | 2.50                               |
| 23  | 416.00                     | 412.00        | 2.50                               |
| 24  | 424.00                     | 416.00        | 7.50                               |
| 25  | 428.00                     | 422.00        | 3.50                               |

**Stone Trench Groundwater Separation Table**

NOT TO SCALE

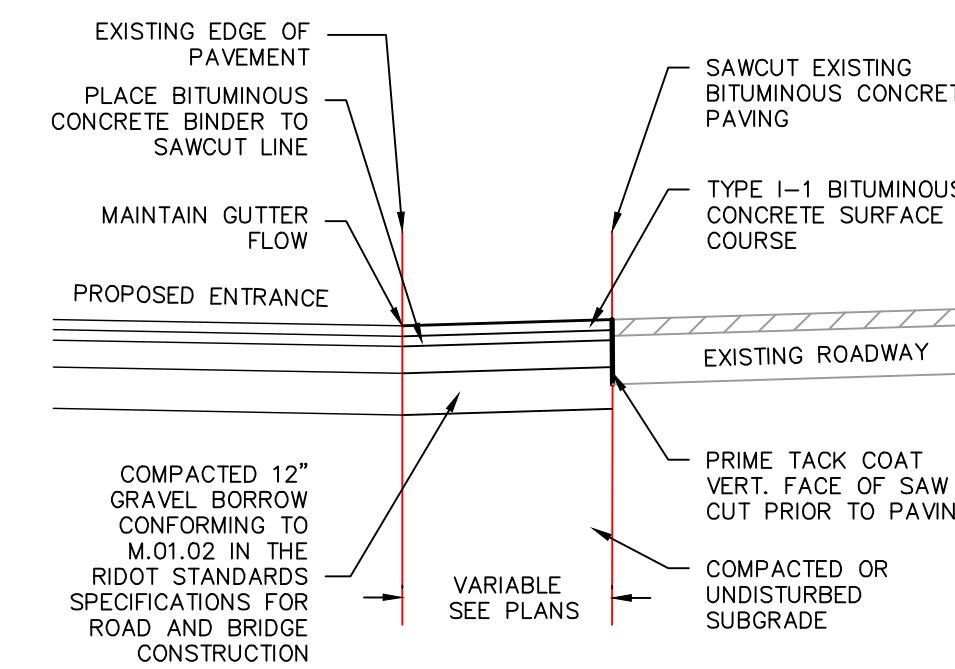
**CONSTRUCTION NOTES:**

1. IF THE BOTTOM ANY SECTION OF AN INFILTRATION TRENCH IS TO BE LOCATED IN MORE THAN 2 FT OF FILL TO EXISTING GRADE, THE REMAINING FILL SHALL CONSIST OF WASHED STONE OR ASTM C33 SAND.



**TYPICAL TRENCH CROSS SECTION IN FILL**

**NOTE:**  
MINIMUM COMPACTION FOR GRAVEL SUB-BASE OR SUBGRADE: 95% MODIFIED PROCTOR.



**Sawcut & Match**

NOT TO SCALE

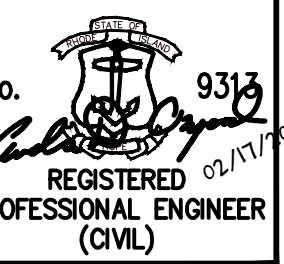
**DiPrete Engineering**



Two Stafford Court Cranston, RI 02920  
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport

AUDIE D. OSGOOD



This plan set must not be used for construction purposes unless stamped issued for construction and stamped by a registered Professional Engineer of DiPrete Engineering.  
The contractor is responsible for all of the means, methods, safety and implementation of this plan and design.  
DiPrete Engineering assumes no responsibility for damages incurred due to locations of existing utilities. See Utility Note on sheet 3.

|    |            |                                 |    |
|----|------------|---------------------------------|----|
| 0  | 09/27/2021 | Phase 1 - Final Plan Submission | DR |
| 1  |            |                                 | DR |
| 2  |            |                                 | DR |
| 3  |            |                                 | DR |
| 4  |            |                                 | DR |
| 5  |            |                                 | DR |
| 6  |            |                                 | DR |
| 7  |            |                                 | DR |
| 8  |            |                                 | DR |
| 9  |            |                                 | DR |
| 10 |            |                                 | DR |
| 11 |            |                                 | DR |
| 12 |            |                                 | DR |
| 13 |            |                                 | DR |
| 14 |            |                                 | DR |
| 15 |            |                                 | DR |
| 16 |            |                                 | DR |
| 17 |            |                                 | DR |
| 18 |            |                                 | DR |
| 19 |            |                                 | DR |
| 20 |            |                                 | DR |
| 21 |            |                                 | DR |
| 22 |            |                                 | DR |
| 23 |            |                                 | DR |
| 24 |            |                                 | DR |
| 25 |            |                                 | DR |

**Detail Sheet - 2**

**Highland Woods**

Assessor's Map 7 Plat 19, Lots 12 & 156  
East Greenwich, Rhode Island 02818

**GSA Properties, LLC**  
50 Niantic Avenue  
Providence, Rhode Island 02907

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