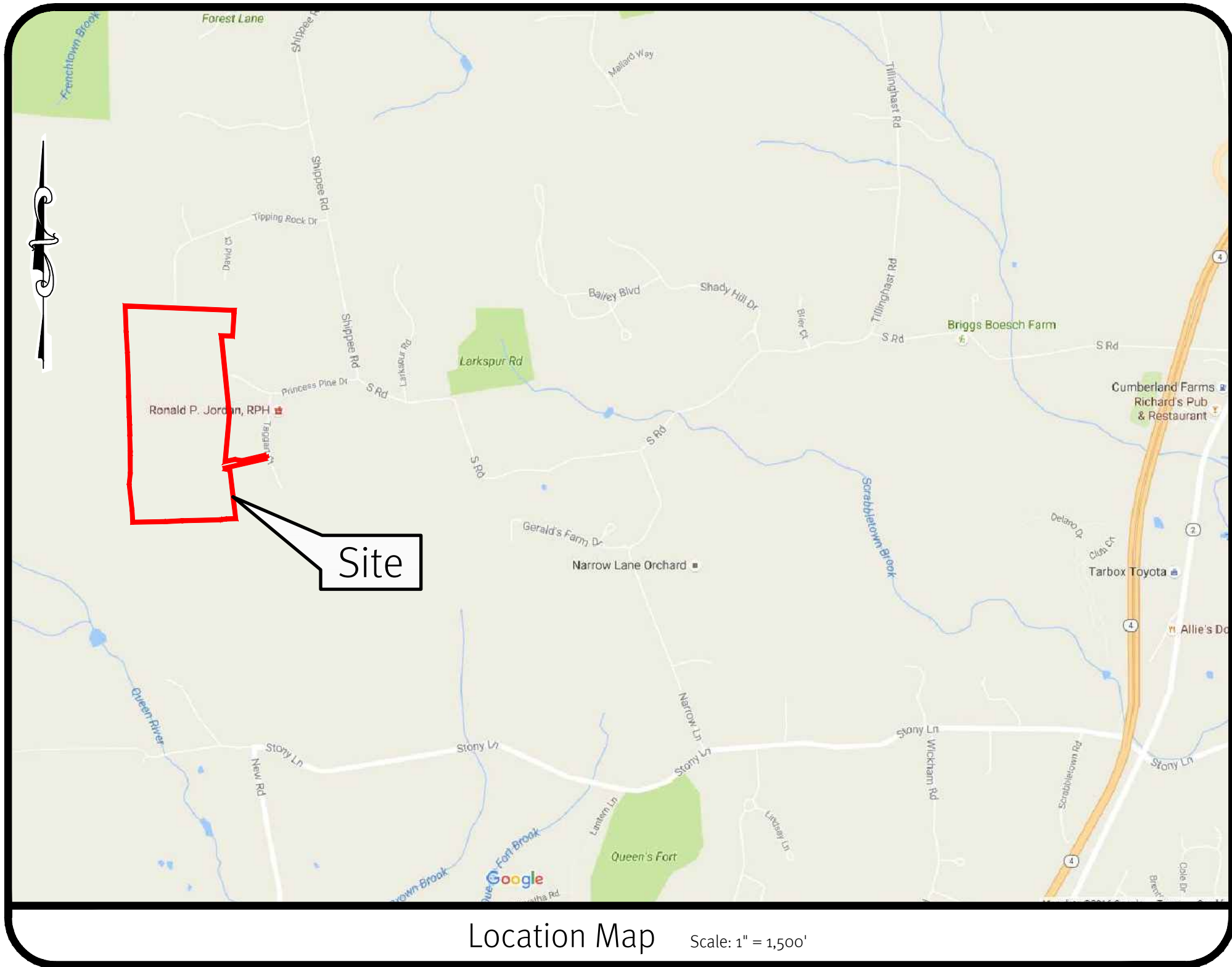


Preliminary Plan Submission

Highland Woods

East Greenwich, Rhode Island 02818

Assessor's Map 7, Plat 19, Lots 12 & 156



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DiPrete Engineering
Two Stafford Court Cranston, RI 02920
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Boston • Providence • Newport

AUDIE D. OSGOOD

No. 9313

REGISTERED PROFESSIONAL ENGINEER (CIVIL)

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

NO.	DATE	DESCRIPTION	DESIGN BY	DATE
1	7-12-2019	Down Engineer Comments	M.S.C.	
2	7-25-2018	Revised Submission	M.S.C.	
3	7-25-2018	Revised Submission	M.S.C.	
4	7-25-2018	Revised Submission	M.S.C.	
5	7-25-2018	Revised Submission	M.S.C.	
6	7-25-2018	Revised Submission	M.S.C.	
7	7-25-2018	Revised Submission	M.S.C.	
8	7-25-2018	Revised Submission	M.S.C.	
9	7-25-2018	Revised Submission	M.S.C.	
10	7-25-2018	Revised Submission	M.S.C.	
11	7-25-2018	Revised Submission	M.S.C.	
12	7-25-2018	Revised Submission	M.S.C.	
13	7-25-2018	Revised Submission	M.S.C.	
14	7-25-2018	Revised Submission	M.S.C.	
15	7-25-2018	Revised Submission	M.S.C.	
16	7-25-2018	Revised Submission	M.S.C.	
17	7-25-2018	Revised Submission	M.S.C.	
18	7-25-2018	Revised Submission	M.S.C.	

Cover Sheet

Highland Woods

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

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

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SHEET

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OF 18

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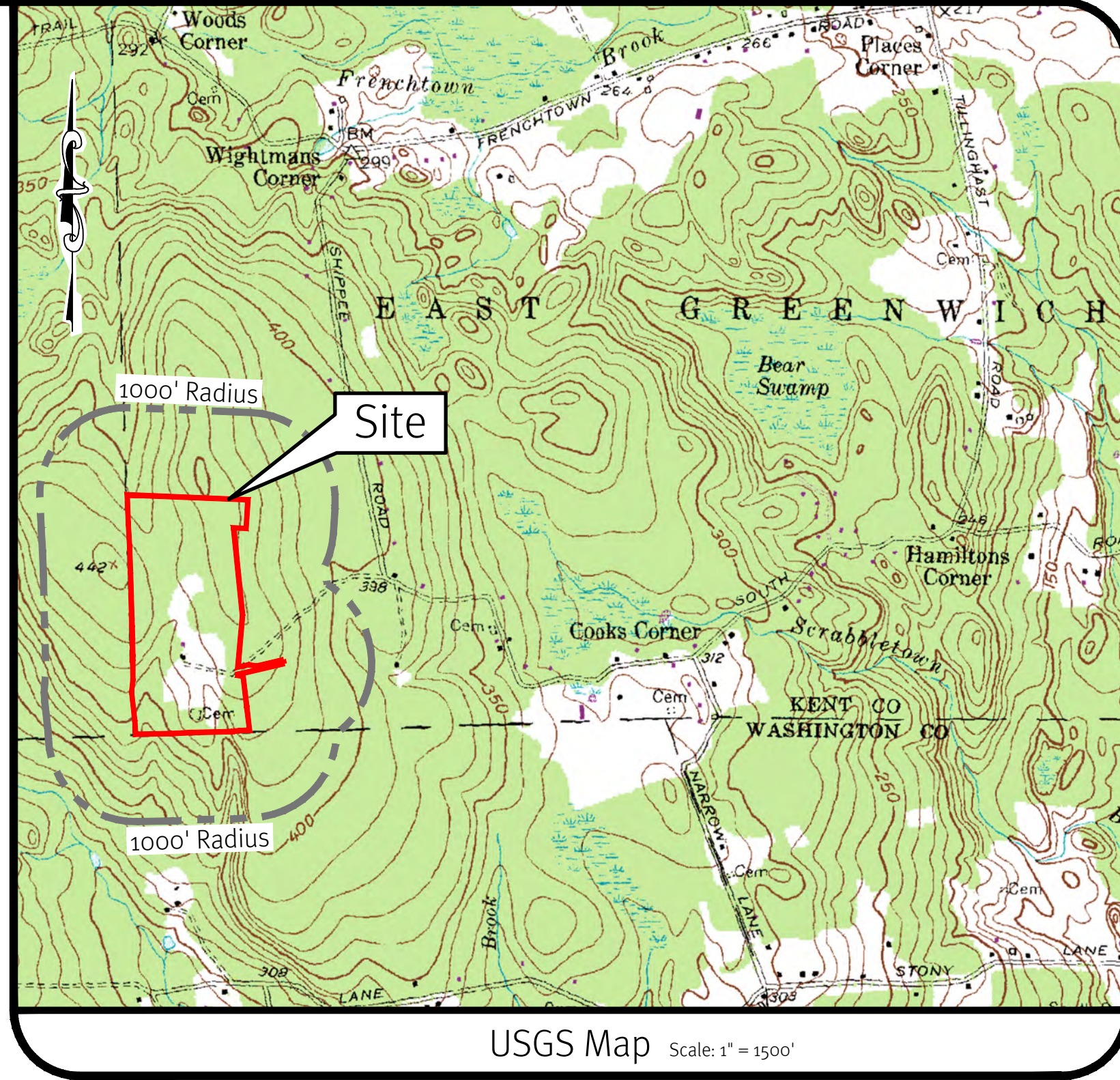
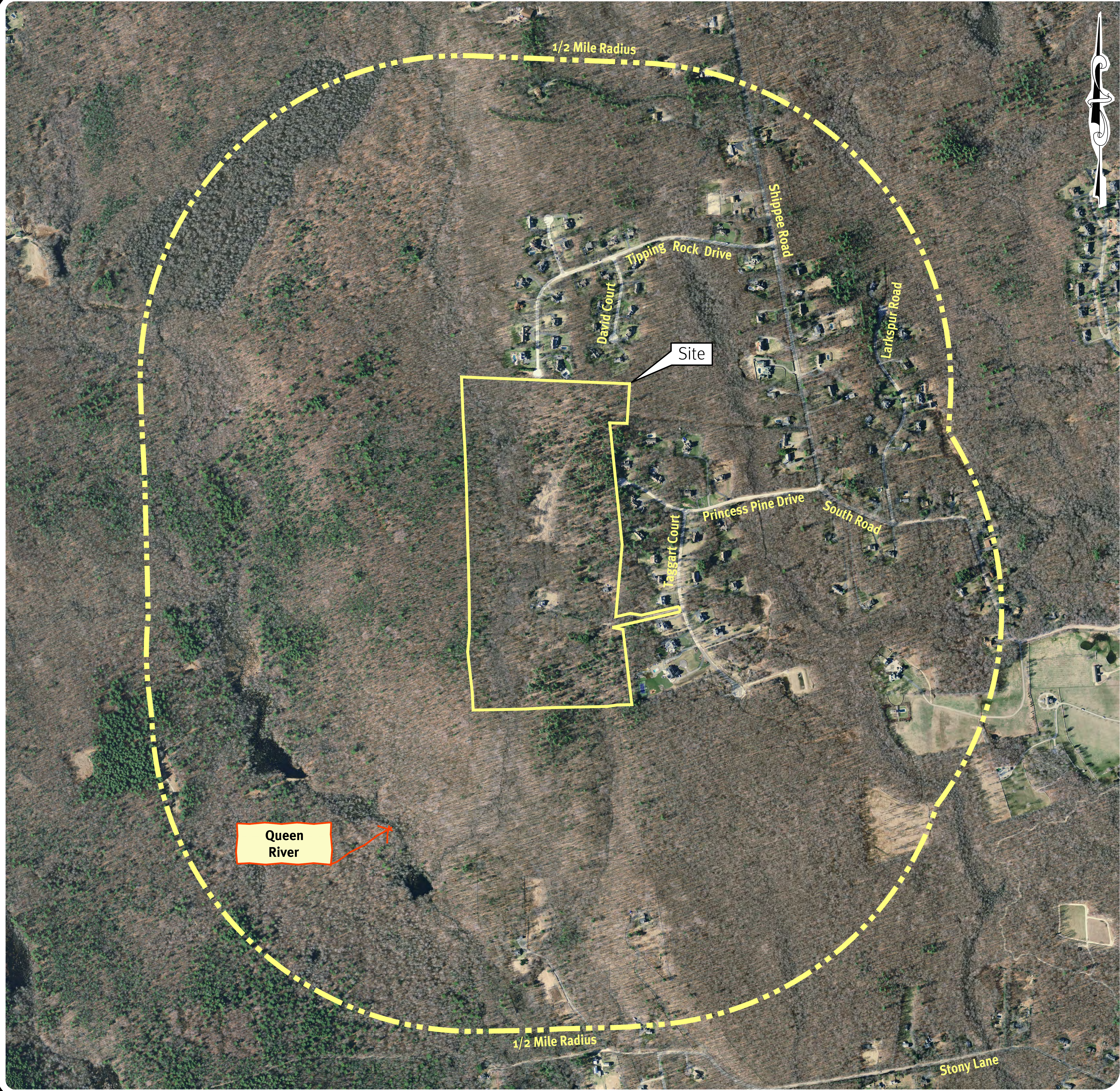
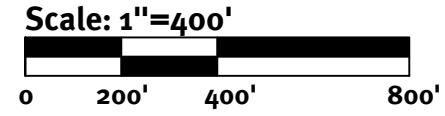


Photo obtained from the RI-GIS.



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Rev.	Date	Description	By	Design By
1	7-12-2019	Owner Engineer Comments	A.C.O.	
2	7-26-2018	SHIM Resubmission	M.S.C.	
3	7-26-2018	SHIM Resubmission	A.R.	
4	7-26-2018	SHIM Resubmission	A.R.	
5	7-26-2018	SHIM Resubmission	A.R.	
6	7-26-2018	SHIM Resubmission	A.R.	
7	7-26-2018	SHIM Resubmission	A.R.	
8	7-26-2018	SHIM Resubmission	A.R.	
9	7-26-2018	SHIM Resubmission	A.R.	
10	7-26-2018	SHIM Resubmission	A.R.	
11	7-26-2018	SHIM Resubmission	A.R.	
12	7-26-2018	SHIM Resubmission	A.R.	
13	7-26-2018	SHIM Resubmission	A.R.	
14	7-26-2018	SHIM Resubmission	A.R.	
15	7-26-2018	SHIM Resubmission	A.R.	
16	7-26-2018	SHIM Resubmission	A.R.	
17	7-26-2018	SHIM Resubmission	A.R.	
18	7-26-2018	SHIM Resubmission	A.R.	
19	7-26-2018	SHIM Resubmission	A.R.	
20	7-26-2018	SHIM Resubmission	A.R.	

Aerial Half Mile Radius

Highland Woods

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

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

DE Job No: 2406-001-A01 Copyright 2018 by DiPrete Engineering Associates, Inc.

SHEET **2** OF 18

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General Notes:

1.

THE SITE IS LOCATED ON THE TOWN OF EAST GREENWICH ASSESSOR'S MAP 7 PLAT 19 LOTS 12 AND 156.

2.

THE SITE IS APPROXIMATELY 78.7± ACRES AND IS ZONED F-2.

3.

THE OWNER OF ASSESSOR'S MAP 7 PLAT 19 LOTS 12 AND 156 IS:

GSA PROPERTIES, LLC
50 NANTIC AVENUE
PROVIDENCE, RI 02907

4.

THIS SITE IS LOCATED IN FEMA FLOOD ZONE X (UNSHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 4400300231G, MAP REVISED DECEMBER 3, 2010.
ZONE X (UNSHADED) ARE AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

5.

TOPOGRAPHY WAS OBTAINED FROM LIDAR MAPS. ELEVATIONS ARE APPROXIMATE AND REFERENCED TO THE NAD 83 US FEET DATUM. PRIOR TO ANY DEVELOPMENT ON THE SITE, THE OWNER SHALL VERIFY ELEVATIONS USING FIELD SURVEY.

6.

SOIL MAPPING OBTAINED FROM WEBSOIL SURVEY, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE.

7.

THIS SURVEY AND PLAN CONFORMS TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

8.

THE SITE IS NOT WITHIN A:
GROUNDWATER PROTECTION AREA (RIDEM)
NATURAL HERITAGE AREAS (RIDEM)
GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
PRIME FARMLAND (USDA)

9.

WETLANDS WERE DELINEATED BY ECOTONES INC. AND SURVEYED BY ALPHA ASSOCIATES. DIPRETE ENGINEERING REFLAGGED BY SURVEY ONLY FOR WETLAND EDGE VERIFICATION.

10.

WETLAND EDGE VERIFICATION REQUESTED FLAGS A100-A154, B111-119, C89-C118 AND D1-D5 ONLY. RIDEM VERIFIED THE WETLAND EDGE UNDER RIDEM APPLICATION NO. 16-0198.

11.

HISTORIC CEMETERY 70 WAS FOUND TO BE WITHIN THE SITE LIMITS.

12.

AREAS WITHIN 200 FT OF THE SITE ARE ZONED AS FOLLOWS:
EAST GREENWICH: F-2 – FARMING DISTRICT (2 ACRES)
WEST GREENWICH: IND B – INDUSTRIAL B
EXETER: RU-4 – RURAL DISTRICT (4 ACRES)

13.

THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/ OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
 - SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC). THE SESC CONTAINS THE FOLLOWING:
 - EROSION CONTROL MEASURES
 - SHORT TERM MAINTENANCE
 - ESTABLISHMENT OF VEGETATIVE COVER
 - CONSTRUCTION POLLUTION PREVENTION
 - SEQUENCE OF CONSTRUCTION
 - OPERATIONS AND MAINTENANCE PLAN (O&M). THE O&M CONTAINS THE FOLLOWING:
 - LONG TERM MAINTENANCE
 - LONG TERM POLLUTION PREVENTION

14.

THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.), RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT: HTTP://WWW.DOT.RI.GOV/BUSINESS/CONTRACTORSANDCONSULTANTS.PHP.

15.

DETAILED SOIL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INCORPORATED AT THE PRELIMINARY DESIGN STAGE AND CONFORM TO RIDEM BEST MANAGEMENT PRACTICES.

16.

THE SITE IS TO BE SERVICED BY PRIVATE WELL AND PRIVATE OWTS.

17.

PROPOSED RIGHTS OF WAY ARE TO BE 44' WIDE WITH 24' WIDE PAVEMENT (12' TRAVEL LANES AND CONCRETE CURB ON EACH SIDE).

18.

THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF EAST GREENWICH SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS, PIPE NETWORK, AND DRAINAGE BASINS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.

19.

THE SITE IS PROPOSED TO BE BUILT IN 2 PHASES AND HOMES ARE PROPOSED TO BE 3,000 SF MINIMUM WITH 4 BEDROOMS.

20.

AFFORDABLE UNITS ARE PROPOSED TO BE PROVIDED BY OWNERS AT ANOTHER LOCATION.

21.

THIS PROJECT PREVIOUSLY RECEIVED MASTER PLAN APPROVAL AS "FRENCHTOWN HIGHLANDS".

22.

ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE IT PROPOSES TO SERVE. ALTERNATIVES TO ANY PROPRIETARY PRODUCT MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR CONSIDERATION, WHICH MUST BE ACCOMPANIED BY APPROPRIATE SPECIFICATION SHEETS/ DESIGN CALCULATIONS THAT DEMONSTRATE THE ALTERNATIVE(S) MEET THE MINIMUM DESIGN PARAMETERS OF THE PRODUCT SHOWN ON THE PLANS. NO ALTERNATIVES MAY BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

23.

THE SITE IS TO BE SERVICED BY PUBLIC UNDERGROUND UTILITIES WITHIN THE RIGHT OF WAY.

24.

A PRECONSTRUCTION MEETING SHALL BE REQUIRED AND EG DPW SHALL BE NOTIFIED AND PARTICIPATE

25.

THE OPERATION & MAINTENANCE PLAN AND THE SAMPLE STORMWATER FACILITY MAINTENANCE AGREEMENT MUST BOTH BE FINALIZED AND APPROVED BY EG DPW PRIOR TO CONSTRUCTION. THE OPERATION & MAINTENANCE PLAN MUST ADDRESS THE RESPONSIBILITIES OF THE LANDOWNER, INCLUDE A MAINTENANCE SCHEDULE AND RECORD KEEPING REQUIREMENTS, AND MUST BE LEGALLY BINDING UPON THE LANDOWNER (ITS SUCCESSORS AND ASSIGNS). THE PLAN AND AGREEMENT SHALL BE RECORDED IN THE TOWN'S LAND EVIDENCE RECORDS AND REFERENCED OR MADE PART OF THE PROPERTY DEEDS PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

26.

A SOIL EROSION AND SEDIMENT CONTROL PERMIT SHALL BE REQUIRED FOR EACH INDIVIDUAL LOT AND SHALL BE OBTAINED FROM THE EG DPW PRIOR TO ANY SITE CONSTRUCTION OR ALTERATION ON SUCH LOT.
- Development Data:
- | | |
|-----------------------|-------------|
| TOTAL SITE AREA: | 78.7± ACRES |
| TOTAL NUMBER OF LOTS: | 25 |
| TOTAL LOT AREA: | 74.1± ACRES |
| AVERAGE LOT AREA: | 2.9± ACRES |
| RIGHT OF WAY AREA: | 4.6± ACRES |
| RIGHT OF WAY WIDTH: | 44' |
| LENGTH OF ROAD: | 4,283'± |
| PAVEMENT WIDTH: | 24' |
- Dimensional Regulations:
- | | |
|-----------------------------------|-----------|
| CURRENT ZONING: | F-2 |
| MINIMUM LOT AREA: | 87,120 SF |
| MINIMUM BUILDABLE AREA (M.B.A.) * | 42,750 SF |
| MINIMUM FRONTAGE AND LOT WIDTH: | 150' |
| MINIMUM FRONT YARD: | 60' |
| MINIMUM SIDE YARD: | 30' |
| MINIMUM REAR YARD: | 45' |
| MAXIMUM STRUCTURE HEIGHT: | 35' |
| MAXIMUM LOT COVERAGE: | 60% |
- * MINIMUM BUILDABLE AREA: THE AMOUNT OF LAND REQUIRED BY ZONE TO CONSTITUTE THE BUILDING ENVELOPE FOR EACH LOT. THE MINIMUM BUILDABLE AREA IS DEFINED BY TAKING THE MINIMUM LOT SIZE FOR A ZONE AND SUBTRACTING THE REQUIRED SETBACKS. THE M.B.A. SHALL BE FREE OF ALL WETLANDS, DRAINAGE STRUCTURES OR OTHER FEATURES, WHICH WOULD IMPAIR ITS USE FOR PURPOSES ALLOWED UNDER THE ZONING ORDINANCE. THE M.B.A. MUST BE CONTIGUOUS.
- Soil Erosion and Sedimentation Control Notes:
1.

THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ONSITE. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RI DEPT. OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

2.

ALL EROSION CONTROL, TEMPORARY SWALES, TEMPORARY SEDIMENTATION PONDS, ETC. SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION AND THE SOIL EROSION SEDIMENTATION CONTROL PLAN (SESC).

3.

TEMPORARY SWALES SHALL BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED ROADWAY. TEMPORARY SWALES SHALL BE VEGETATED AFTER CONSTRUCTION. EROSION CONTROL MATS SHALL BE INSTALLED IF NECESSARY TO PREVENT EROSION AND SUPPORT VEGETATION. AFTER CONSTRUCTION IS COMPLETE AND TRIBUTARY AREAS TO THE SWALES HAVE BEEN STABILIZED, THE TEMPORARY SWALES SHALL BE CLEARED AND FINAL DESIGN, INCLUDING INSTALLATION OF THE GRASS SWALE SHALL BE PER THE DESIGN PLANS.

4.

INLET PROTECTION SHALL BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.

5.

SEE SESC PLAN FOR SEQUENCE OF CONSTRUCTION ACTIVITY.

6.

SEE SESC PLAN FOR PROJECT PHASING.

7.

CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER AND OWNER.

8.

FOR CONSTRUCTION PHASING SEE SESC PLAN.
- As-Built Notes:
1.

ALL COMPONENTS OF THE DRAINAGE MUST BE ASBUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

2.

UPON COMPLETION OF THE INSTALLATION OF THE STORMWATER MANAGEMENT SYSTEMS, WRITTEN CERTIFICATION FROM A REGISTERED PROFESSIONAL ENGINEER THAT THE SYSTEMS HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED SITE PLANS MUST BE SUBMITTED TO THE EG DPW AND BUILDING DEPARTMENT.
- RIDEM Site Suitability Notes:
1.

THERE ARE NO KNOWN EXISTING OR PROPOSED PRIVATE WELLS WITHIN 200 FT. OF THE PROPOSED DEVELOPMENT EXCEPT WHERE SHOWN.

2.

THERE ARE NO KNOWN EXISTING OR PROPOSED OWTS WITHIN 200 FT. OF THE DEVELOPMENT EXCEPT WHERE SHOWN.

3.

THERE ARE NO KNOWN PUBLIC WELLS WITHIN 500 FT. OF THE PROPOSED DEVELOPMENT.

4.

THERE ARE NO KNOWN EXISTING OR PROPOSED WELLS WITHIN 200 FT. OF A PROPOSED OWTS EXCEPT WHERE SHOWN.

5.

RESIDENTIAL HOMES ARE TO BE SERVICED BY PRIVATE WELLS AND OWTS.

6.

SOIL EVALUATIONS, WERE COMPLETED BY DIPRETE ENGINEERING ON JANUARY 16-19, 2018.
- Layout and Materials:
1.

DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.

2.

INTERSECTION FILLET CURVE PAVEMENT/CURB RADII TO BE 25 FEET MINIMUM.

3.

CURBING SHALL BE PRECAST CONCRETE.

4.

SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

5.

PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

6.

CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- Grading and Utility Notes:
1.

THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ONSITE. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RI DEPT. OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

2.

CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.

3.

CONSTRUCTION TO COMMENCE SUMMER 2018 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.

4.

ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND TOWN OF EAST GREENWICH STANDARD SPECIFICATIONS AND DETAILS.

5.

SEQUENCE OF CONSTRUCTION SHOWN IN SESC MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.

6.

THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING(S). THIS SHALL BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.

7.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE.

8.

PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.

9.

ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH APPLICANT, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.

10.

ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION INCLUDING ALL REVISIONS.

11.

ALL RETAINING WALLS AND STEEP SLOPES ARE SHOWN SCHEMATICALLY ONLY AND DIPRETE ENGINEERING IS NOT PROVIDING THE DESIGN OF THESE ITEMS. THE ACTUAL WALLS AND SLOPES ARE TO BE BUILT UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO CONSTRUCTION.

12.

ALL COMPONENTS OF THE DRAINAGE SYSTEM MUST BE ASBUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING TO SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

13.

NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.

14.

ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.

15.

ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION. STUMPS SHALL BE GROUND ONSITE OR REMOVED.

16.

NO STUMP DUMPS ARE PROPOSED ONSITE.

17.

ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS FROM OTHERS, OR INFORMATION PROVIDED TO DIPRETE ENGINEERING AND ARE SUBJECT TO CHANGE. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED PLANS OF RECORD AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-344-7233 IN MA, ME, NH, RI & VT. PRIOR TO EXCAVATION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE SITE CONTRACTORS RESPONSIBILITY.

18.

IF CONCRETE TRUCKS ARE WASHED OUT ONSITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.

19.

ALL DRAINAGE PIPE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER TABLE SHALL BE WATER TIGHT, INCLUDING WATER TIGHT SEALS/BOOTS AT DRAINAGE STRUCTURE CONNECTIONS.

DRAINAGE

ALL DRAINAGE PIPING TO BE HIGH-DENSITY POLYETHYLENE (HDPE) WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER, UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. ALL STORMWATER PIPE WITHIN THE STATE'S RIGHT OF WAY TO BE REINFORCED CONCRETE PIPE (RCP) PIPE.

DRAINAGE STRUCTURES TO BE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS):

- CATCH BASINS ALONG CURBING TO BE RIDOT STD. 4.4.0, TYPE F FRAME, 4" DIAMETER WITH APRON STONE.
 - 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.

DRAINAGE CONNECTIONS FROM ALL YARD DRAINS (YD), AREA DRAINS (AD), TRENCH DRAINS (TD), FRENCH DRAINS (FD), WALL DRAINS (WD), AND DOWNSPOUTS (DS) ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. THE LEVEL OF DETAIL SHOWN DOES NOT INCLUDE ALL JOINTS THAT MAY BE REQUIRED FOR CONSTRUCTION. ALL FITTINGS & PIPE SLOPES TO TIE INTO MAIN TRUNK LINE TO BE FIELD FIT BY CONTRACTOR.

Soil Information:

(REFERENCE: WEBSOIL SURVEY OF RHODE ISLAND, U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE.

SOIL NAME	DESCRIPTION
BnB	BRIDGEHAMPTON-CHARLTON COMPLEX, VERY STONY, 0 TO 8 PERCENT SLOPES
ChD	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 15 TO 25 PERCENT SLOPES
NbB	NARRAGANSETT VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES
Rf	RIDGEBOUR, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS
WcB	WAPPING VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES

*NOTE: NONE OF THE ABOVE SOILS ARE CONSIDERED PRIME FARMLAND.

Plan Reference:

CLASS I PROPERTY LINE SHOWN ON THESE PLANS ARE FROM BOUNDARY SURVEY AND PLAN COMPLETED BY DIPRETE ENGINEERING, DATED 12-16-2016.

State Permits Received:

WETLAND VERIFICATION APPLICATION NUMBER 16-0198

Abbreviations Legend

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

ADA	AMERICANS WITH DISABILITY ACT	OHW	OVERHEAD WIRE
AP	ASSESSOR'S PLAT	PE	POLYETHYLENE
BC	BOTTOM OF CURB	PL	PROPERTY LINE
BT	BOTTOM OF TESTHOLE	PR	PROPOSED
BIT	BITUMINOUS (BERM)	PVC	POLYVINYL CHLORIDE
BIO	BIORETENTION	R	RADIUS
BS	BASEMENT SLAB ELEVATION	R&D	REMOVE AND DISPOSE
BW	FINISHED GRADE AT BOTTOM OF WALL	RCP	REINFORCED CONCRETE PIPE
CB	CATCH BASIN	RHIB	RHODE ISLAND
(C)	CALCULATED		HIGHWAY BOUND
CL	CENTERLINE	RL	ROOF LEADER
(CA)	CHORD ANGLE	ROW	RIGHT OF WAY
CLDIP	CONCRETE LINED DUCTILE IRON PIPE	S	SLOPE
CO	CLEAN OUT	SD	SUBDRAIN
CONC	CONCRETE	SED	SEDIMENT FOREBAY
(D)	DEED	SF	SQUARE FOOT
DCB	DOUBLE CATCH BASIN	SFL	STATE FREEWAY LINE
DI	DROP INLET	SFM	SEWER FORCE MAIN
DMH	DRAINAGE MANHOLE	SG	SLAB ON GRADE ELEVATION
DP	DETENTION POND	SHL	STATE HIGHWAY LINE
ELEV	ELEVATION	SMH	SEWER MANHOLE
EOP	EDGE OF PAVEMENT	SNDF	SAND FILTER
ESC	EROSION AND SEDIMENT CONTROL	SS	SIDE SLOPE
EX	EXISTING	STA	STATION
FES	FLARED END SECTION	TC	TOP OF CURB
FFE	FINISH FLOOR ELEVATION	TD	TRENCH DRAIN
GS	GARAGE SLAB ELEVATION	TF	TOP OF FOUNDATION
GWT	GROUND WATER TABLE	TRANS	TRANSITION
HW	HEADWALL	TW	TOP OF WALL (FINISHED
HC	HIGH CAPACITY CATCH BASIN GRATE		GRADE AT TOP OF WALL)
HDPE	HIGH DENSITY POLYETHYLENE	TYP	TYPICAL
ID	INLINE DRAIN	UDS	UNDERGROUND
INV	INVERT		DETENTION SYSTEM
IP	INFILTRATION POND	UIS	UNDERGROUND
LF	LINEAR FEET		INFILTRATION SYSTEM
LOD	LIMIT OF DISTURBANCE	UP	UTILITY POLE
LP	LIGHT POLE	WO	WALKOUT ELEVATION
M.B.A.	MAXIMUM BUILDABLE AREA	WQ	WATER QUALITY
(M)	MEASURED		
N/F	NOW OR FORMERLY		

Demolition Notes:

1.

ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS FROM OTHERS, OR INFORMATION PROVIDED TO DIPRETE ENGINEERING AND ARE SUBJECT TO CHANGE. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED PLANS OF RECORD AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-344-7233 IN MA, ME, NH, RI & VT. PRIOR TO EXCAVATION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE SITE CONTRACTORS RESPONSIBILITY.

2.

CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.

3.

CONTRACTOR TO PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCE DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON TAGGART COURT.

4.

ANY DAMAGE TO EXISTING BUILDINGS AND/OR PROPERTY CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

5.

CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS UNLESS SPECIFIED OTHERWISE HERE IN. R&D MATERIALS TO INCLUDE BUT NOT LIMITED TO PAVEMENT, GRAVEL, CATCH BASINS, MANHOLES, GRATES/FRAMES/COVERS, AND ANY EXCESS SOIL THAT IS NOT INCORPORATED INTO THE WORK.

6.

IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK SHALL BE RESTORED TO MATCH THE DESIGN PLANS.

Existing Legend

(AS SHOWN ON PROPOSED PLANS)
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

	PROPERTY LINE		NAIL FOUND/SET
	ASSESSORS LINE		DRILL HOLE FOUND/SET
	BUILDING		BOUND FOUND/SET
	BRUSHLINE		SIGN
	TREELINE		BOLLARD
	GUARDRAIL		SOIL EVALUATION
	FENCE		CATCH BASIN
	RETAINING WALL		DOUBLE CATCH BASIN
	STONE WALL		DRAINAGE MANHOLE
	MINOR CONTOUR LINE		FLARED END SECTION
	MAJOR CONTOUR LINE		GUY POLE
	WATER LINE		ELECTRIC MANHOLE
	SEWER LINE		UTILITY/POWER POLE
	SEWER FORCE MAIN		LIGHTPOST
	GAS LINE		SEWER/SEPTIC MANHOLE
	ELECTRIC LINE		SEWER VALVE
	OVERHEAD WIRES		CLEANOUT
	DRAINAGE LINE		HYDRANT
	SOILS LINES		IRRIGATION VALVE
	50' PERIMETER WETLAND		WATER VALVE
	100' RIVERBANK WETLAND		WELL
	200' RIVERBANK WETLAND		MONITORING WELL
	FEMA BOUNDARY		UNKNOWN MANHOLE
	STREAM		GAS VALVE
	WETLAND LINE & FLAG		BENCH MARK
			STREAM FLOW DIRECTION

Proposed Legend

NOT ALL ITEMS SHOWN WILL

	PROPERTY LINE		DRAINAGE LINE
	BUILDING SETBACKS		PERFORATED SUBDRAIN
	TREELINE		SEWER FORCE MAIN
	PHASE LINE		GAS LINE
	GUARDRAIL (RIDOT STD 34.2.0, 34.4.0 OR APPROVED EQUAL)		WATER LINE
	BOULDER RETAINING WALL		HYDRANT ASSEMBLY
	RETAINING WALL		WATER SHUT OFF
	MINOR CONTOUR LINE		WATER VALVE
	MAJOR CONTOUR LINE		THRUST BLOCK
	SPOT ELEVATION		SEWER LINE
	EDGE OF PAVEMENT		OVERHEAD WIRE
	BITUMINOUS BERM (RIDOT STD 7.5.1)		ELECTRIC, TELEPHONE, CABLE LINE
	CONCRETE CURB (RIDOT STD 7.1.0)		LIMIT OF DISTURBANCE - NO EROSION CONTROL
	BUILDING FOOTPRINT		SILT FENCE (RIDOT STD 9.2.0) OR APPROVED EQUAL AT LIMIT OF DISTURBANCE
	BUILDING OVERHANG		2:1 OR 1:1 SLOPES
	ASPHALT PAVEMENT		UNDERGROUND INFILTRATION OUTLINE
	HEAVY DUTY ASPHALT PAVEMENT		POND ACCESS
	HEAVY DUTY CONCRETE		RIP RAP
	CONCRETE APRON		SAND FILTER
	ASPHALT SIDEWALK		BIO RETENTION
	SAWCUT LINE		CATCH BASIN
	CONSTRUCTION ENTRANCE		DOUBLE CATCH BASIN
	SIGN (RIDOT STD 24.6.2 AS APPLICABLE)		MANHOLE
	SINGLE LIGHT		FLARED END SECTION
	DOUBLE LIGHT		HEAD WALL
	OVERHANGING LIGHT		PROPOSED ENTRANCE SIGN & SIGN EASEMENT
	ACCESSIBLE PARKING SPACE SYMBOLS		

Notes And Legend

Highland Woods

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

Owner & Applicant

GSA Properties, LLC
50 Nantic Avenue
Providence, Rhode Island 02907

Diprete Engineering

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

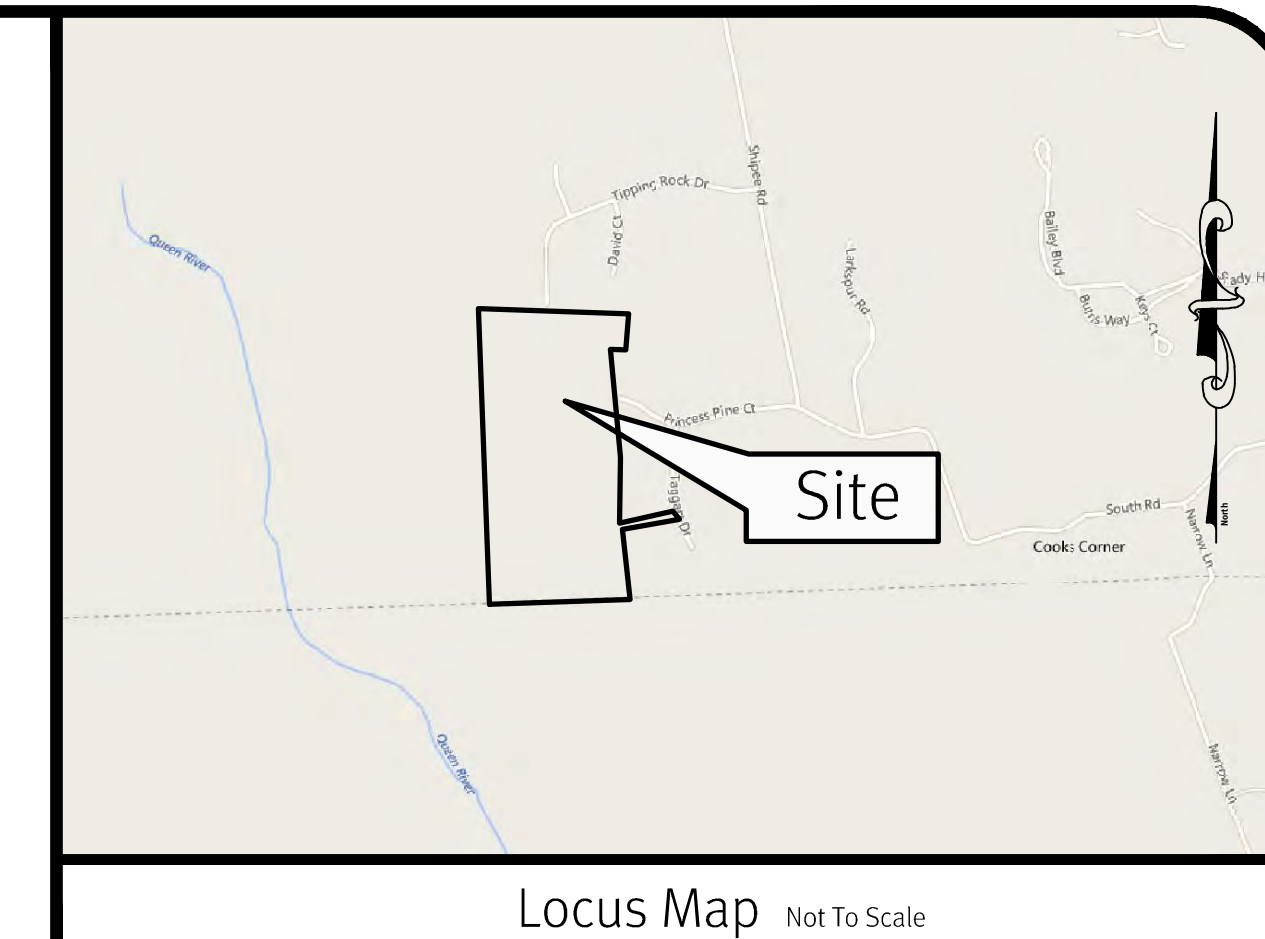
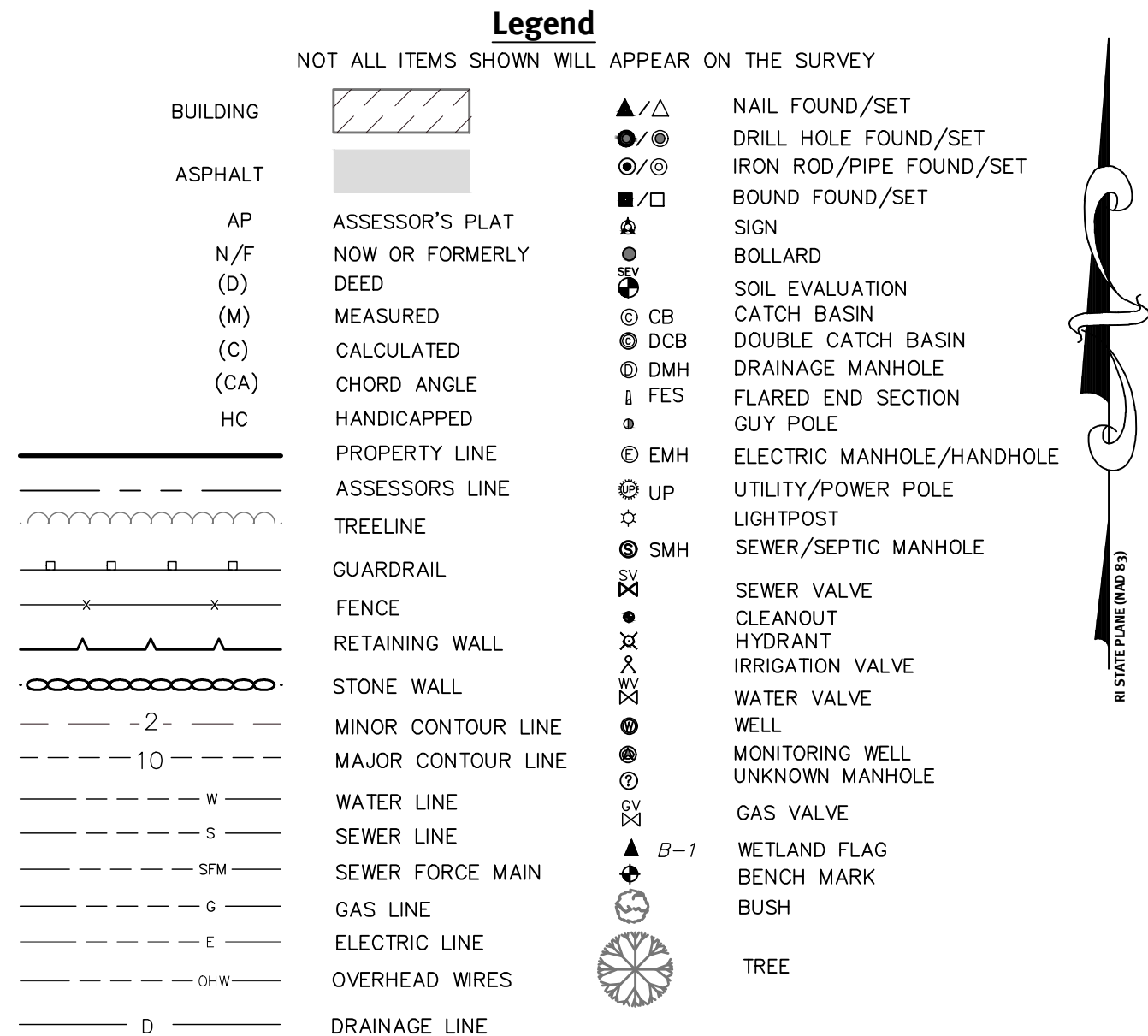
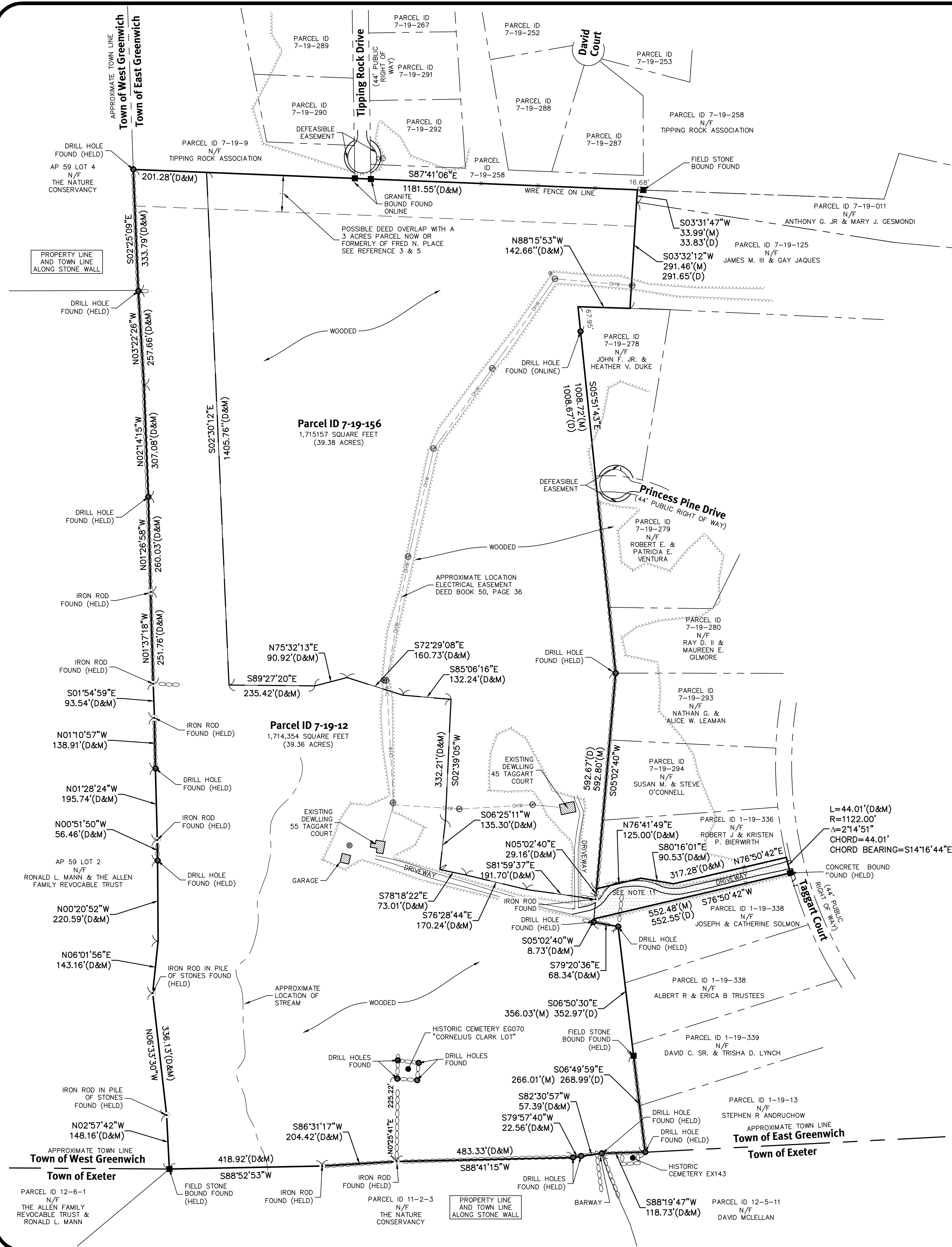
Boston • Providence • Newport

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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

NO.	DATE	OWN ENGINE
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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 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 SOUTHRIDGE, EAST GREENWICH, OWNED BY STEPHEN ANDRUCHOW INC. DATED SEPTEMBER 1996, PLAN BY ALPHA ASSOCIATES. PLAT 665
- FINAL GEOMETRY PLAN OF LAND SITUATED IN SOUTHRIDGE, 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 SOUTHRIDGE, 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 860 PAGE 1.

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:

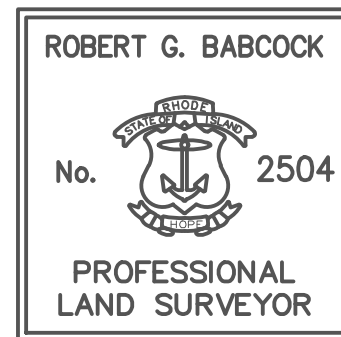
TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY
MEASUREMENT SPECIFICATION: CLASS I

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.

This Plan Should Be Indexed By The Following Streets:

- Taggart Court
- Tipping Rock Drive
- Princess Pine Drive

Scale: 1"=150'
0 75' 150' 300'

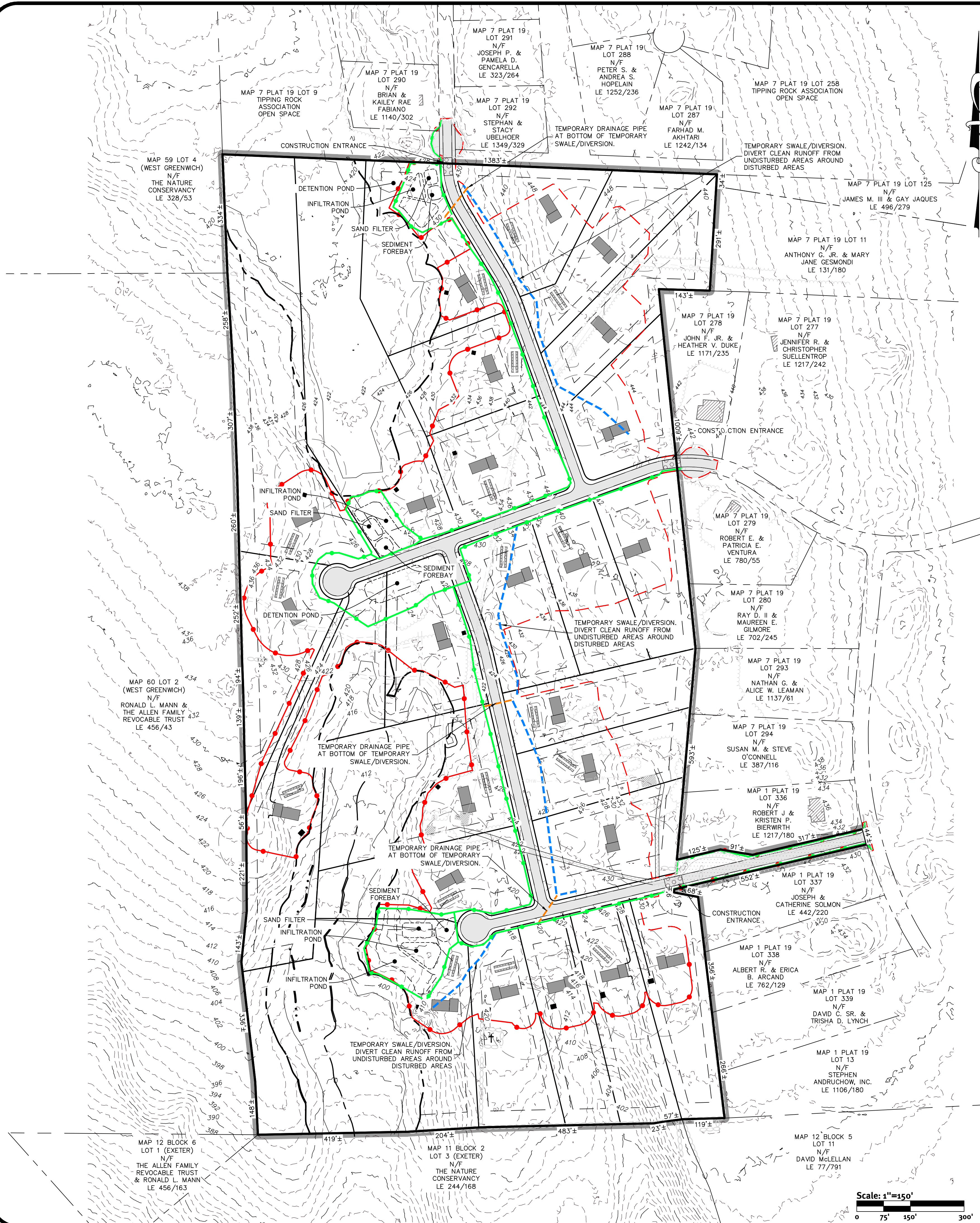


12/16/16
ROBERT G. BABCOCK, RIPLS #2504, COA #LS.0004160

Boundary Survey 45 & 55 Taggart Court

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

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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:

- 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.
- 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.
- 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)

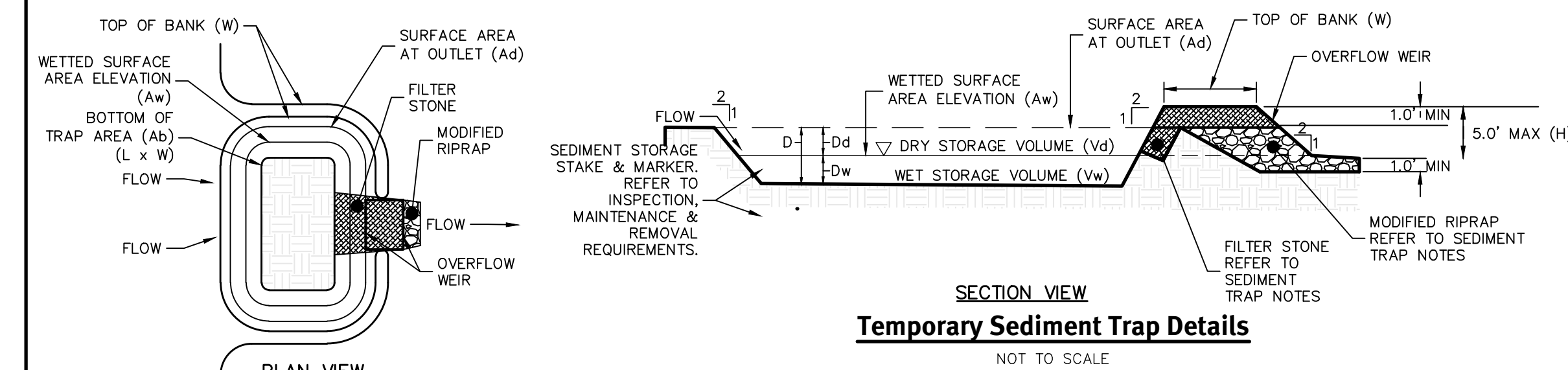
Soil Erosion Control Implementation Phasing

Phase 1a or 2a

- INSTALL CONSTRUCTION ENTRANCE
- CLEAR AND GRUB SITE AREAS FOR ROADWAY & DRAINAGE CONSTRUCTION.
- INSTALL EROSION CONTROL & SEDIMENT BARRIERS.
- CONSTRUCT PROPOSED DIVERSIONS SWALES & TEMPORARY DRAINAGE PIPES.
- INSTALL UTILITIES WITH ROADWAYS. INSTALL DRAINAGE NETWORK WORKING FROM THE DOWN GRADIENT BASINS UP TO THE START OF NETWORK. INSTALL ASPHALT PAVING
- STABILIZE ALL DISTURBED AREAS, DE-CONSTRUCT DIVERSIONS, ROADWAY EROSION CONTROL AND TEMPORARY PIPES.

Phase 1b or 2b Individual Lot Construction

- INSTALL CONSTRUCTION ENTRANCE.
- INSTALL EROSION CONTROL/SEDIMENT BARRIERS & INLET PROTECTION.
- CLEAR AND GRUB LOT AREA
- CONSTRUCT INDIVIDUAL RESIDENTIAL LOTS
- 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
H (ft)	W (ft)
1.5	2.0
2.0	2.5
2.5	3.0
3.0	3.5
3.5	4.0
4.0	4.5
4.5	5.0

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 (Ab) (SF)	
WETTED SURFACE AREA (Aw) (SF)	
SURFACE AREA AT OUTLET (Aa) (SF)	

Sediment Trap Notes:

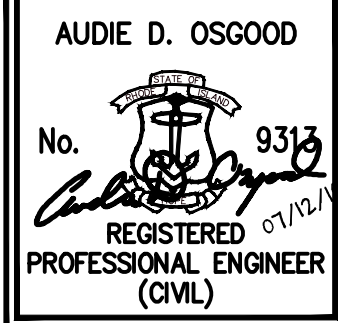
- THE TEMPORARY SEDIMENT TRAPS SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES
- THE TEMPORARY SEDIMENT TRAP SHALL HAVE AN INITIAL STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
- 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.
- THE OUTLET SHALL BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
- THE OUTLET CONSISTS OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIPRAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
- TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
- MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO 5 FEET.
- SIDE SLOPES OF THE EMBANKMENT SHALL BE 2:1 OR FLATTER.
- MODIFIED RIPRAP: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.
- FILTER STONE: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE I, COLUMN V FILTER STONE.

Inspection, Maintenance, and Removal Requirements:

- INSTALL "SEDIMENT STORAGE" STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
- 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.
- CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
- CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
- 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.
- DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
- THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

Installation Notes:

- CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
- REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
- EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
- 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
- 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



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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By	Design By
1	7-12-2019	Owner Engineering Comments	A.D.O.	M.S.C.
2	7-26-2018	RI/PA Resubmission	A.D.O.	M.S.C.
3	7-26-2018	RI/PA Resubmission	A.D.O.	M.S.C.
4	7-26-2018	RI/PA Resubmission	A.D.O.	M.S.C.
5	7-26-2018	RI/PA Resubmission	A.D.O.	M.S.C.
6	7-26-2018	RI/PA Resubmission	A.D.O.	M.S.C.
7	7-26-2018	RI/PA Resubmission	A.D.O.	M.S.C.
8	7-26-2018	RI/PA Resubmission	A.D.O.	M.S.C.
9	7-26-2018	RI/PA Resubmission	A.D.O.	M.S.C.
10	7-26-2018	RI/PA Resubmission	A.D.O.	M.S.C.

Soil Erosion And Sediment Control Plan

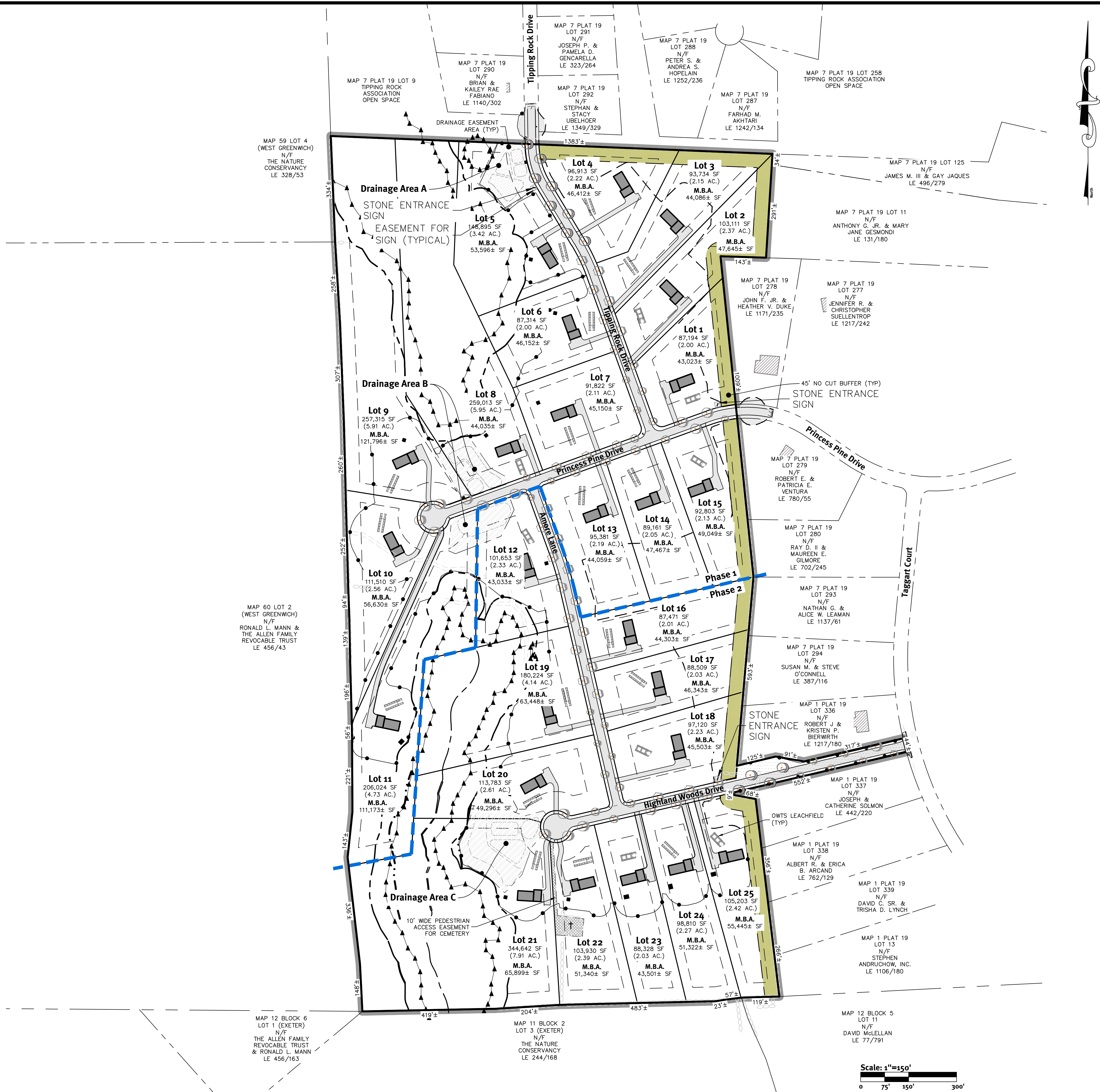
Highland Woods

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

GSA Properties, LLC

50 Natick Avenue
Providence, Rhode Island 02907

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Site Layout Plan

Highland Woods

Assessor's Map 7 Plat 19, Lots 12 & 156

Owner & Applicant

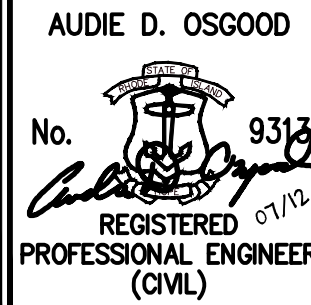
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1	7-12-2019	Owner Engineer Comments	
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3	7-12-2019	Owner Engineer Comments	
4	7-12-2019	Owner Engineer Comments	
5	7-12-2019	Owner Engineer Comments	
6	7-12-2019	Owner Engineer Comments	
7	7-12-2019	Owner Engineer Comments	
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9	7-12-2019	Owner Engineer Comments	
10	7-12-2019	Owner Engineer Comments	
11	7-12-2019	Owner Engineer Comments	
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26	7-12-2019	Owner Engineer Comments	
27	7-12-2019	Owner Engineer Comments	
28	7-12-2019	Owner Engineer Comments	
29	7-12-2019	Owner Engineer Comments	
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99	7-12-2019	Owner Engineer Comments	
100	7-12-2019	Owner Engineer Comments	



DiPrete Engineering

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Grading, Drainage & Utility Plan - 1

Highland Woods

Assessor's Map 7 Plat 19, Lots 12 & 156

East Greenwich, Rhode Island 02818

Owner & Applicant

GSA Properties, LLC

50 Nanticoke Avenue

Providence, Rhode Island 02907

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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA compliance in the implementation of this plan and design.

No.	Date	Description	Design By
1	7-12-2019	Owner Engineer Comments	M.S.C.
2	7-12-2019	Owner Engineer Comments	M.S.C.
3	7-12-2019	Owner Engineer Comments	M.S.C.
4	7-12-2019	Owner Engineer Comments	M.S.C.
5	7-12-2019	Owner Engineer Comments	M.S.C.
6	7-12-2019	Owner Engineer Comments	M.S.C.
7	7-12-2019	Owner Engineer Comments	M.S.C.
8	7-12-2019	Owner Engineer Comments	M.S.C.
9	7-12-2019	Owner Engineer Comments	M.S.C.
10	7-12-2019	Owner Engineer Comments	M.S.C.
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13	7-12-2019	Owner Engineer Comments	M.S.C.
14	7-12-2019	Owner Engineer Comments	M.S.C.
15	7-12-2019	Owner Engineer Comments	M.S.C.
16	7-12-2019	Owner Engineer Comments	M.S.C.
17	7-12-2019	Owner Engineer Comments	M.S.C.
18	7-12-2019	Owner Engineer Comments	M.S.C.
19	7-12-2019	Owner Engineer Comments	M.S.C.
20	7-12-2019	Owner Engineer Comments	M.S.C.

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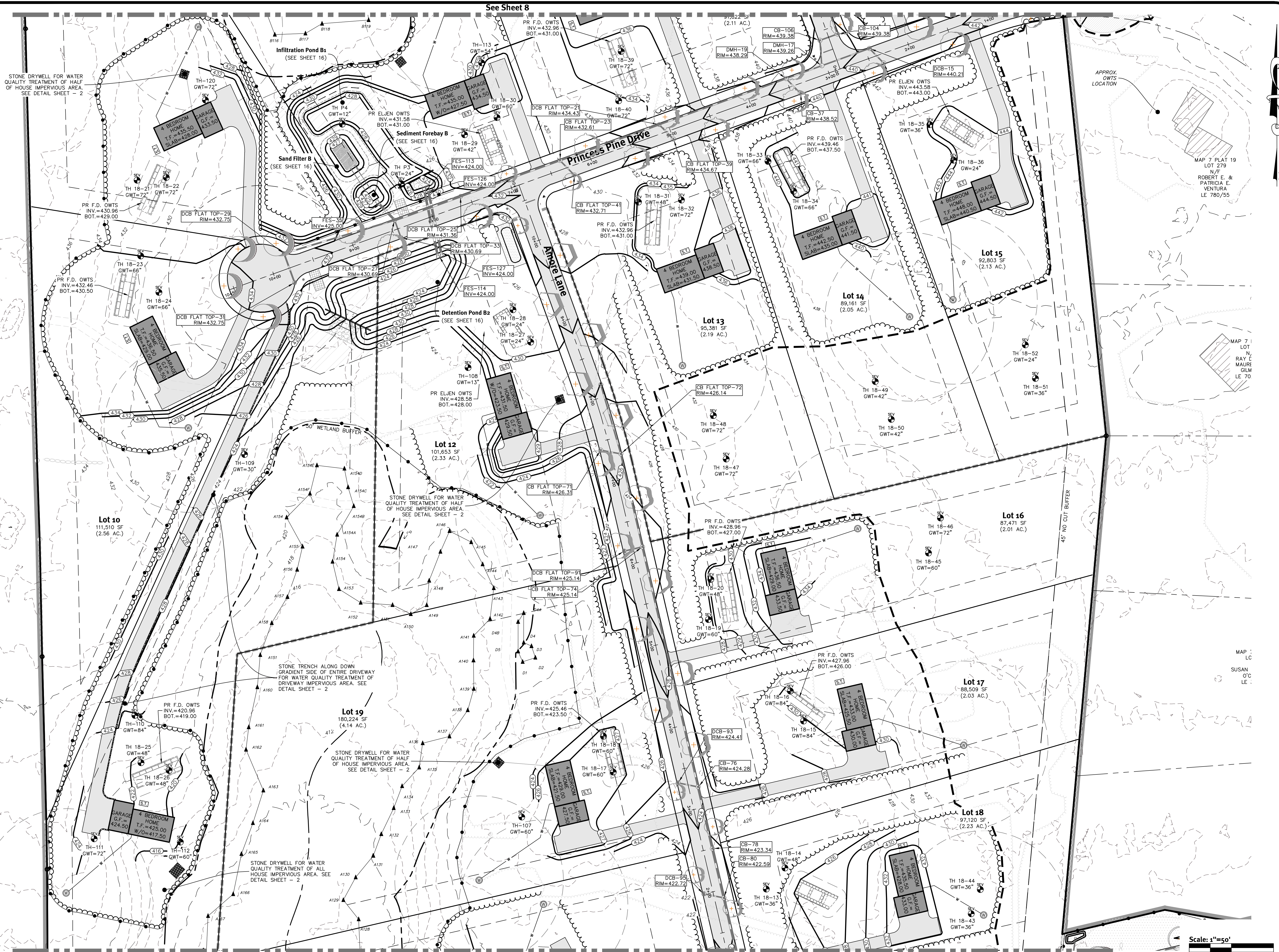
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-641-6006 www.diprete-eng.com

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

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Grading, Drainage & Utility Plan - 2

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

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

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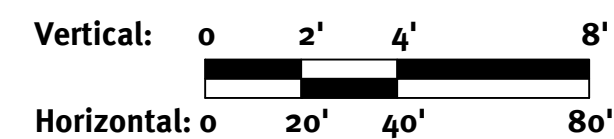
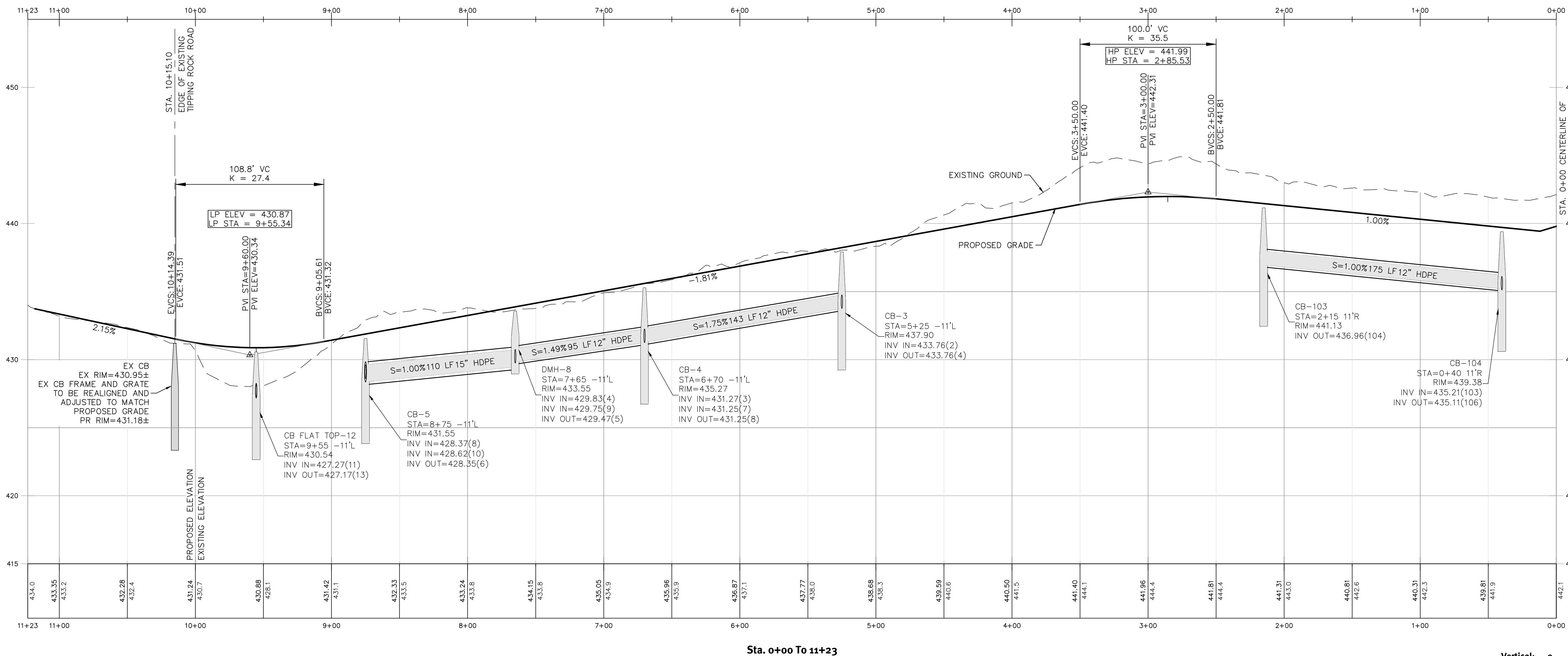
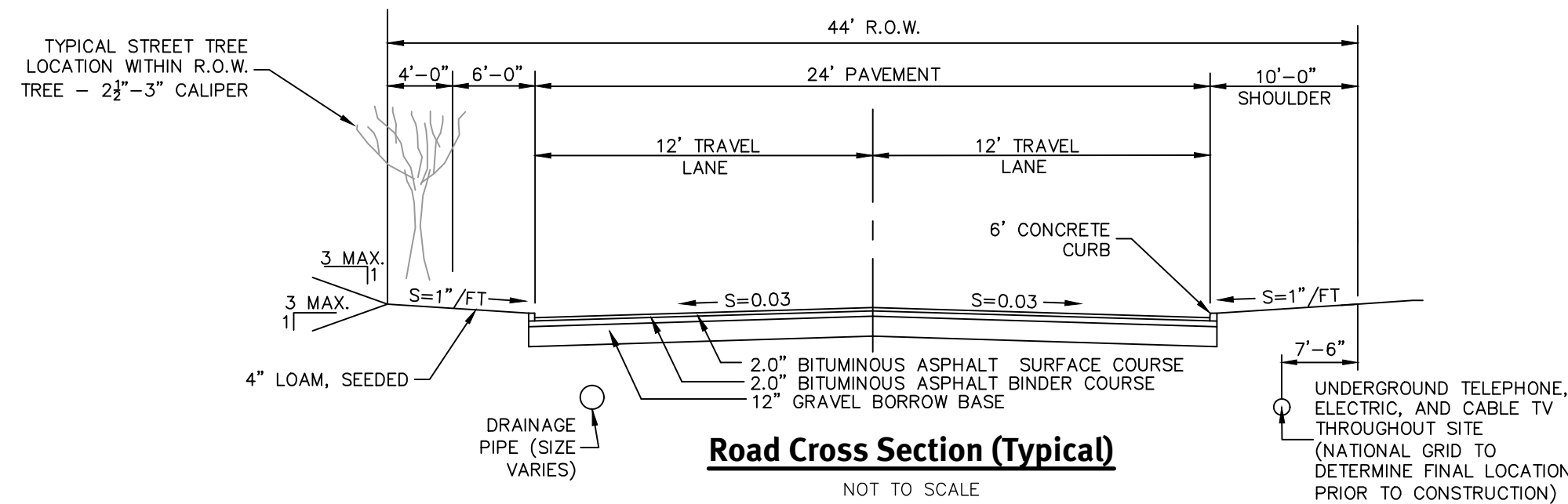
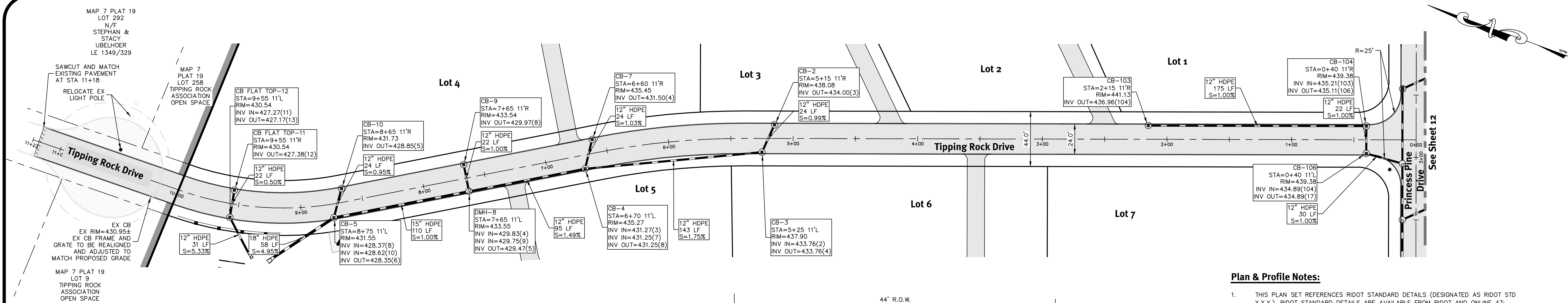
No.	Date	Description	By	Design By
1	7/12/2019	Owner Engineer Comments	LC	M.S.C.
2	7/12/2019	Owner Engineer Comments	LC	M.S.C.
3	7/12/2019	Owner Engineer Comments	LC	M.S.C.
4	7/12/2019	Owner Engineer Comments	LC	M.S.C.
5	7/12/2019	Owner Engineer Comments	LC	M.S.C.
6	7/12/2019	Owner Engineer Comments	LC	M.S.C.
7	7/12/2019	Owner Engineer Comments	LC	M.S.C.
8	7/12/2019	Owner Engineer Comments	LC	M.S.C.
9	7/12/2019	Owner Engineer Comments	LC	M.S.C.
10	7/12/2019	Owner Engineer Comments	LC	M.S.C.

AUDIE D. OSGOOD
No. 9313
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
10/17/12

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Plan & Profile Notes:

- THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.). RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT: [HTTP://WWW.DOT.STATE.CT.GOV/BUSINESS/CONTRACTORSANDCONSULTANTS.PHP](http://www.dot.state.ct.gov/BUSINESS/CONTRACTORSANDCONSULTANTS.PHP).
 - ALL DRAINAGE PIPING TO BE HIGH-DENSITY POLYETHYLENE (HDPE) WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER, UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. ALL STORMWATER PIPE WITHIN THE STATE'S RIGHT OF WAY TO BE REINFORCED CONCRETE PIPE (RCP) PIPE.
 - DRAINAGE STRUCTURES TO BE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS):
 - CATCH BASINS ALONG CURBING TO BE RIDOT STD. 4.4.0, TYPE F FRAME, 4' DIAMETER WITH APRON STONE.
 - 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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No.	Date	Description	By	Design By
1	7/12/2019	Owner Engineer Comments	M.S.C.	M.S.C.
2	7/12/2019	Owner Engineer Comments	M.S.C.	M.S.C.
3	7/12/2019	Owner Engineer Comments	M.S.C.	M.S.C.
4	7/12/2019	Owner Engineer Comments	M.S.C.	M.S.C.
5	7/12/2019	Owner Engineer Comments	M.S.C.	M.S.C.
6	7/12/2019	Owner Engineer Comments	M.S.C.	M.S.C.
7	7/12/2019	Owner Engineer Comments	M.S.C.	M.S.C.
8	7/12/2019	Owner Engineer Comments	M.S.C.	M.S.C.
9	7/12/2019	Owner Engineer Comments	M.S.C.	M.S.C.
10	7/12/2019	Owner Engineer Comments	M.S.C.	M.S.C.

Plan & Profile - Tipping Rock Drive

Highland Woods

Assessor's Map 7 Plat 19, Lots 12 & 156

East Greenwich, Rhode Island 02818

Owner & Applicant

GSA Properties, LLC

50 Natic Avenue

Providence, Rhode Island 02907

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SHEET 11 OF 18

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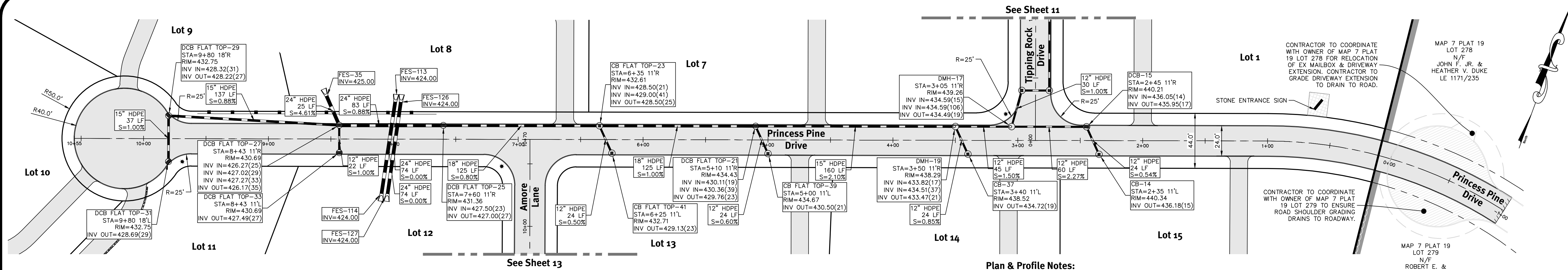
Two Stafford Court Cranston, RI 02920

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

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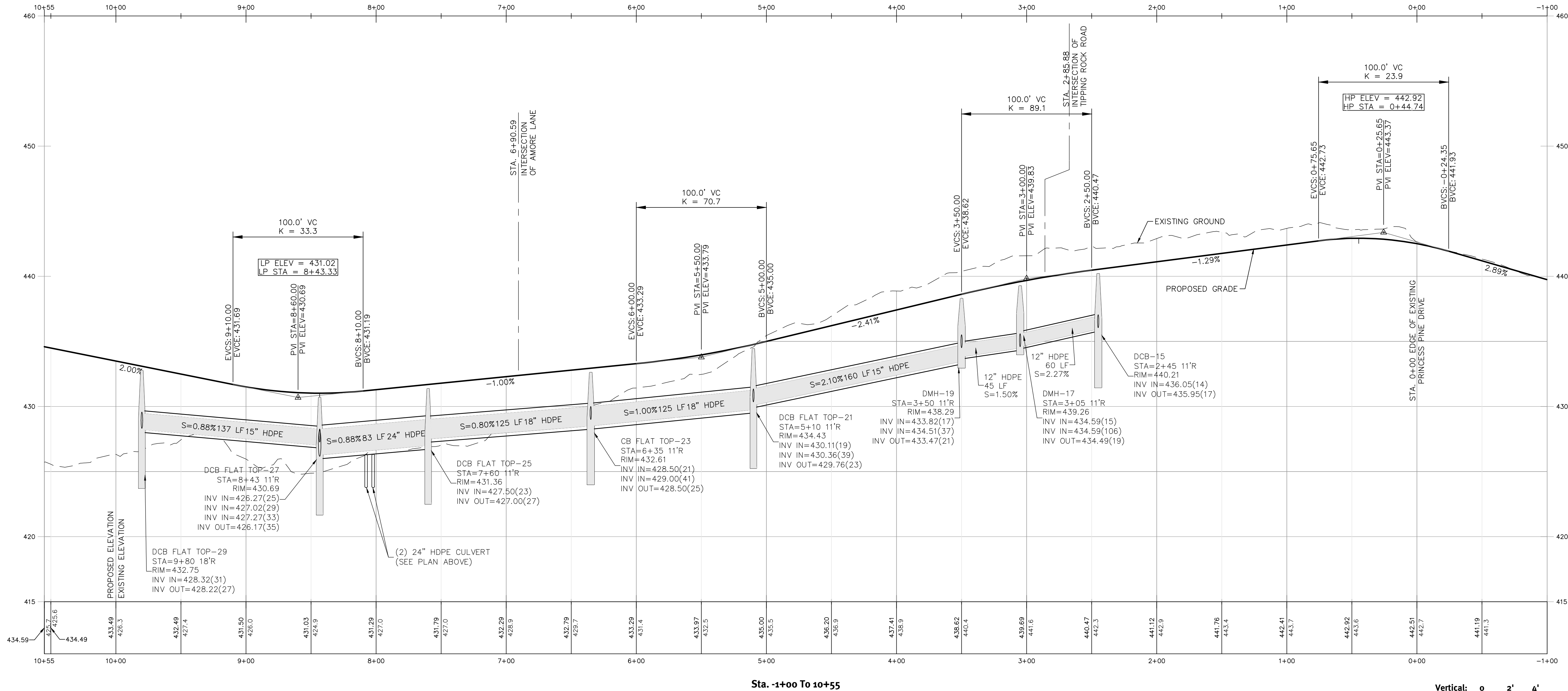
AUDIE D. OSGOOD
No. 9313
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

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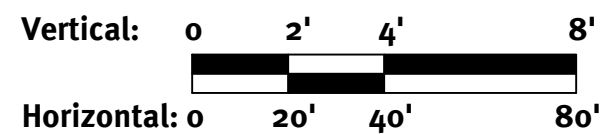


Plan & Profile Notes:

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- ALL DRAINAGE PIPING TO BE HIGH-DENSITY POLYETHYLENE (HDPE) WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER, UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. ALL STORMWATER PIPE WITHIN THE STATE'S RIGHT OF WAY TO BE REINFORCED CONCRETE PIPE (RCP) PIPE.
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 - 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.



Sta. -1+00 To 10+55



Plan & Profile - Princess Pine Drive

Highland Woods
Assessor's 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.	Date	Description	Drawn By	Design By
5	7-12-2019	Owner Engineer Comments	IA.R.	M.S.C.
4	7-12-2018	Owner Engineer Comments	IA.R.	M.S.C.
3	7-26-2018	Owner Engineer Comments	IA.R.	M.S.C.
2	06-29-2018	Owner Engineer Comments	IA.R.	M.S.C.
1	08-24-2017	Owner Engineer Comments	IA.R.	M.S.C.
0	12-23-2016	Owner Engineer Comments	IA.R.	M.S.C.

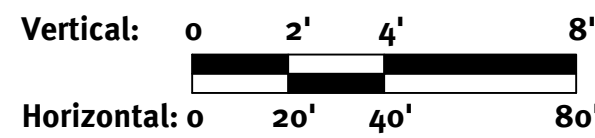
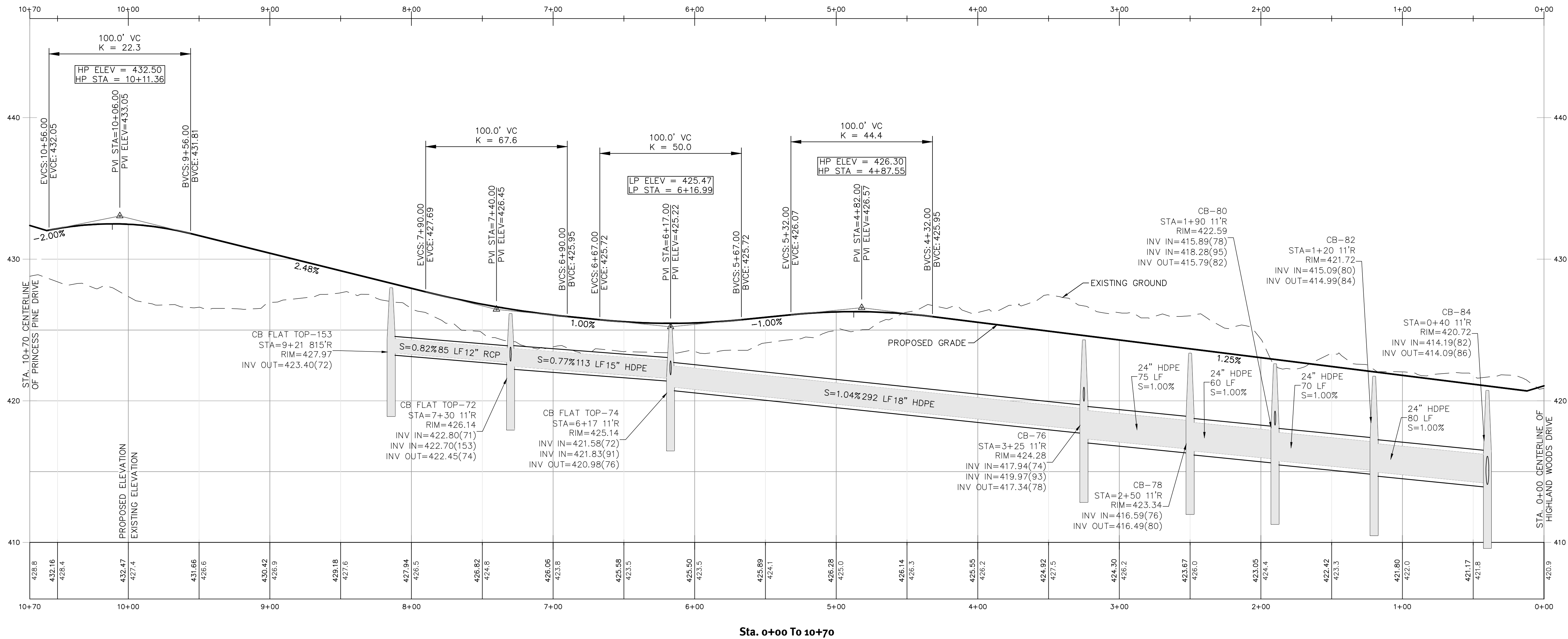
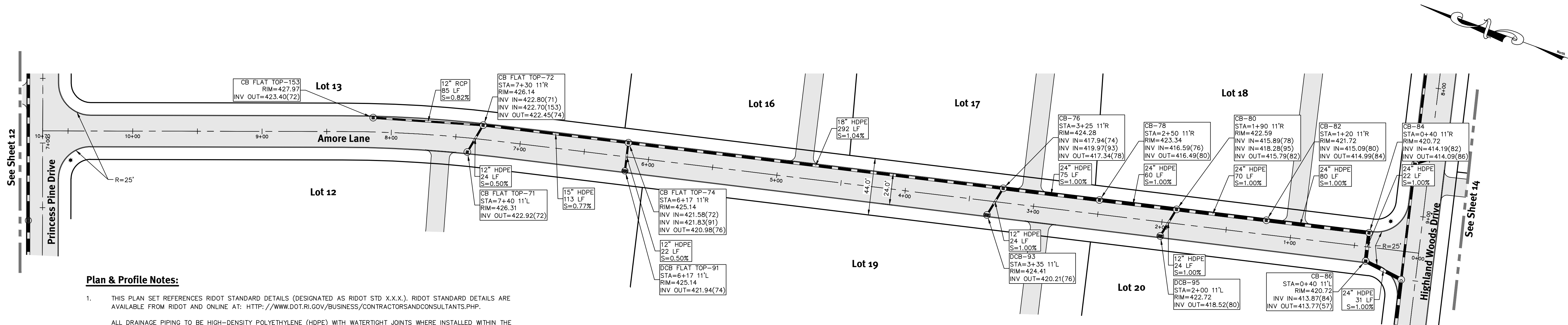
AUDIE D. OSGOOD
No. 9313
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
9/17/12

DiPrete Engineering

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Plan & Profile - Amore Lane

Highland Woods

Assessor's Map 7 Plat 19, Lots 12 & 156

East Greenwich, Rhode Island 028818

Owner & Applicant

GSA Properties, LLC

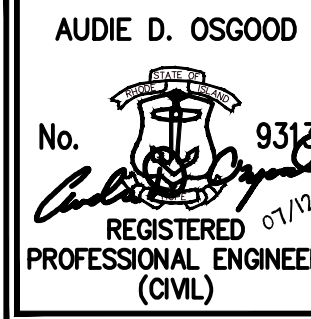
50 Natick Avenue

Providence, Rhode Island 02907

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No.	Date	Description	Drawn By	Design By
1	7-12-2019	Owner Engineer Comments	W.S.C.	
2	7-12-2018	Initial Submission	W.S.C.	
3	7-26-2018	Revised Submission	W.S.C.	
4	8-15-2018	Final Submission	W.S.C.	
5	8-15-2017	Master Plan Submission	W.S.C.	
6	12-23-2016	Pre-Application Submission	W.S.C.	
7	12-23-2016	Final Submission	W.S.C.	



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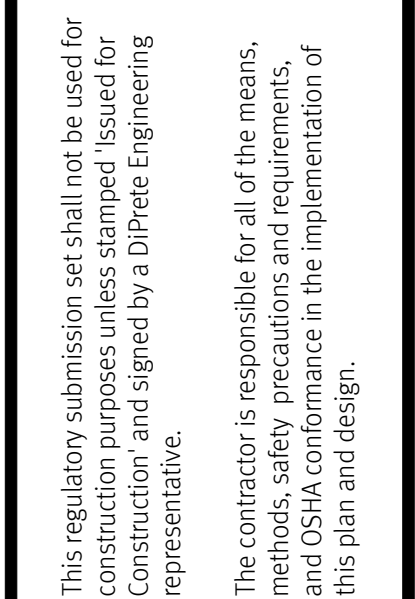
AUDIE D. OSGOOD

No.  9313

Audie D. Osgood

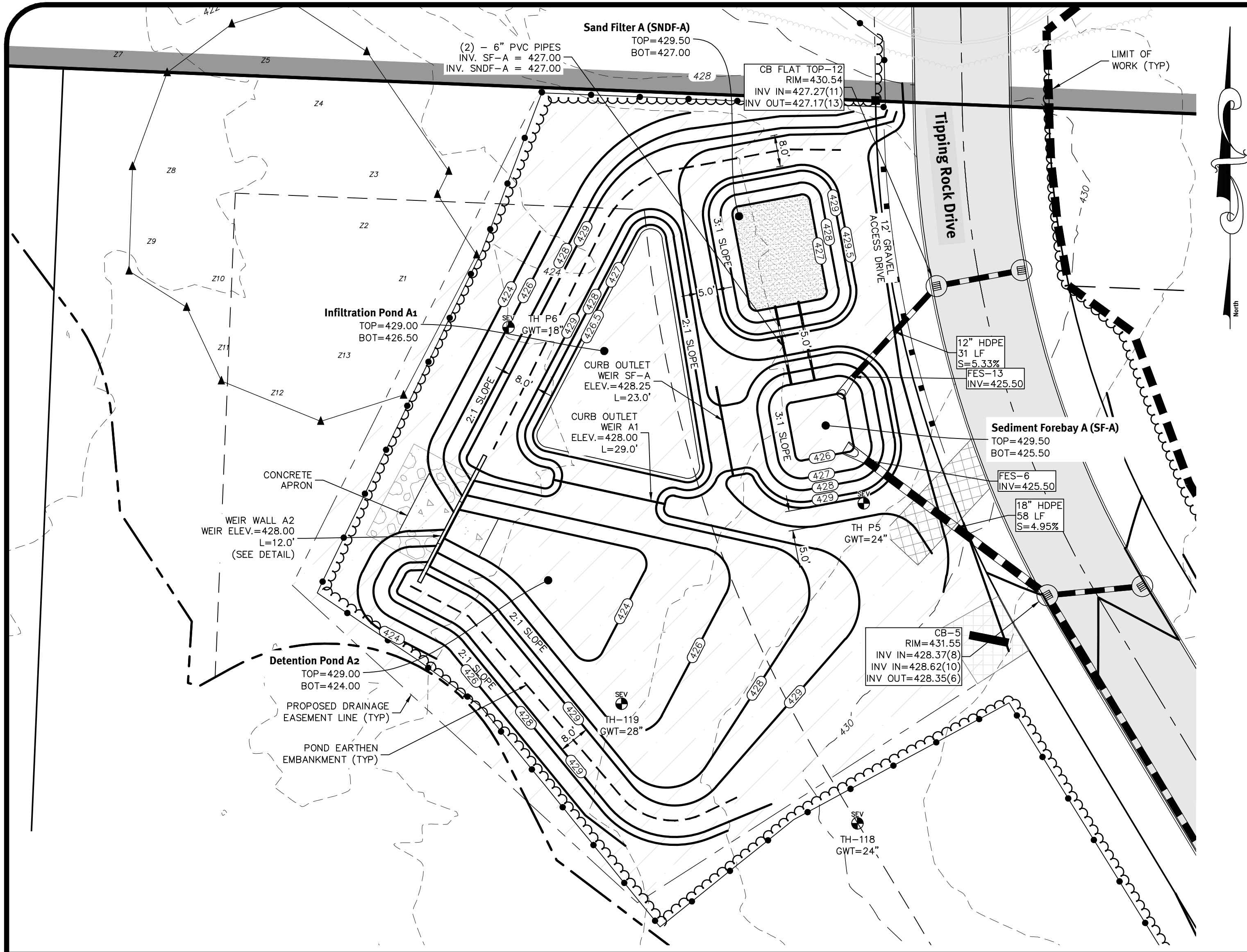
REGISTERED 07/12/14

PROFESSIONAL ENGINEER
(CIVIL)

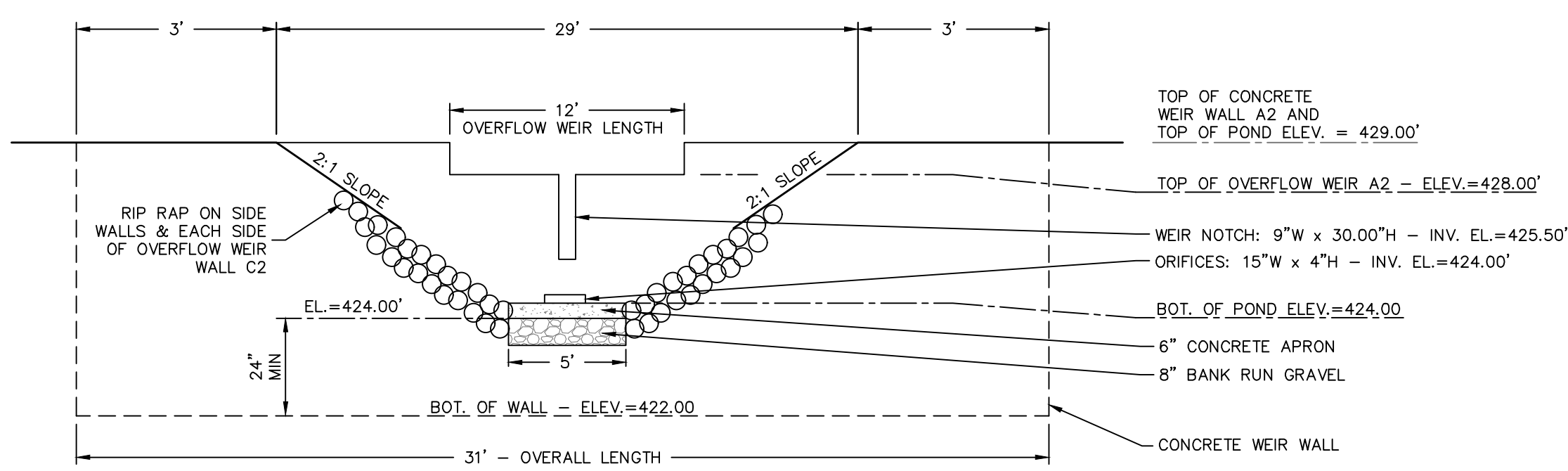
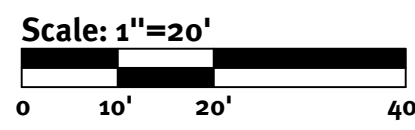


Plan & Profile - Highland Woods Drive
Highland Woods
 Assessor's Map 7 Plat 19, Lots 12 & 156
 50 Niantic Avenue, Rhode Island 02818
 Owner & Applicant
GSA Properties, LLC
 50 Niantic Avenue
 Providence, Rhode Island 02907

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Drainage System A

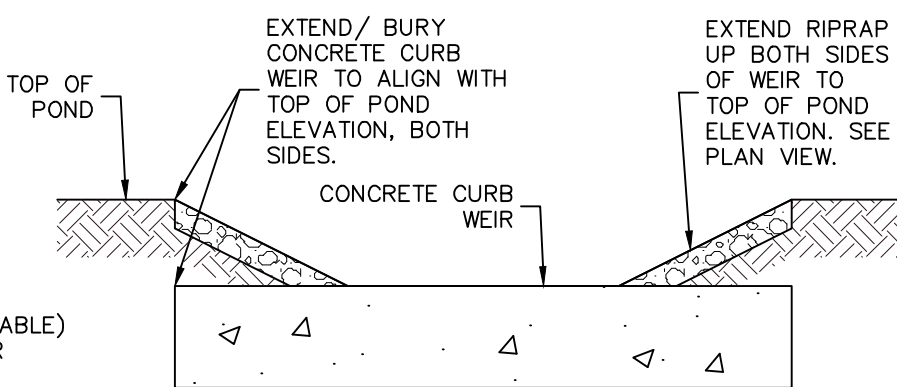


Weir Wall A2 Detail
NOT TO SCALE

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

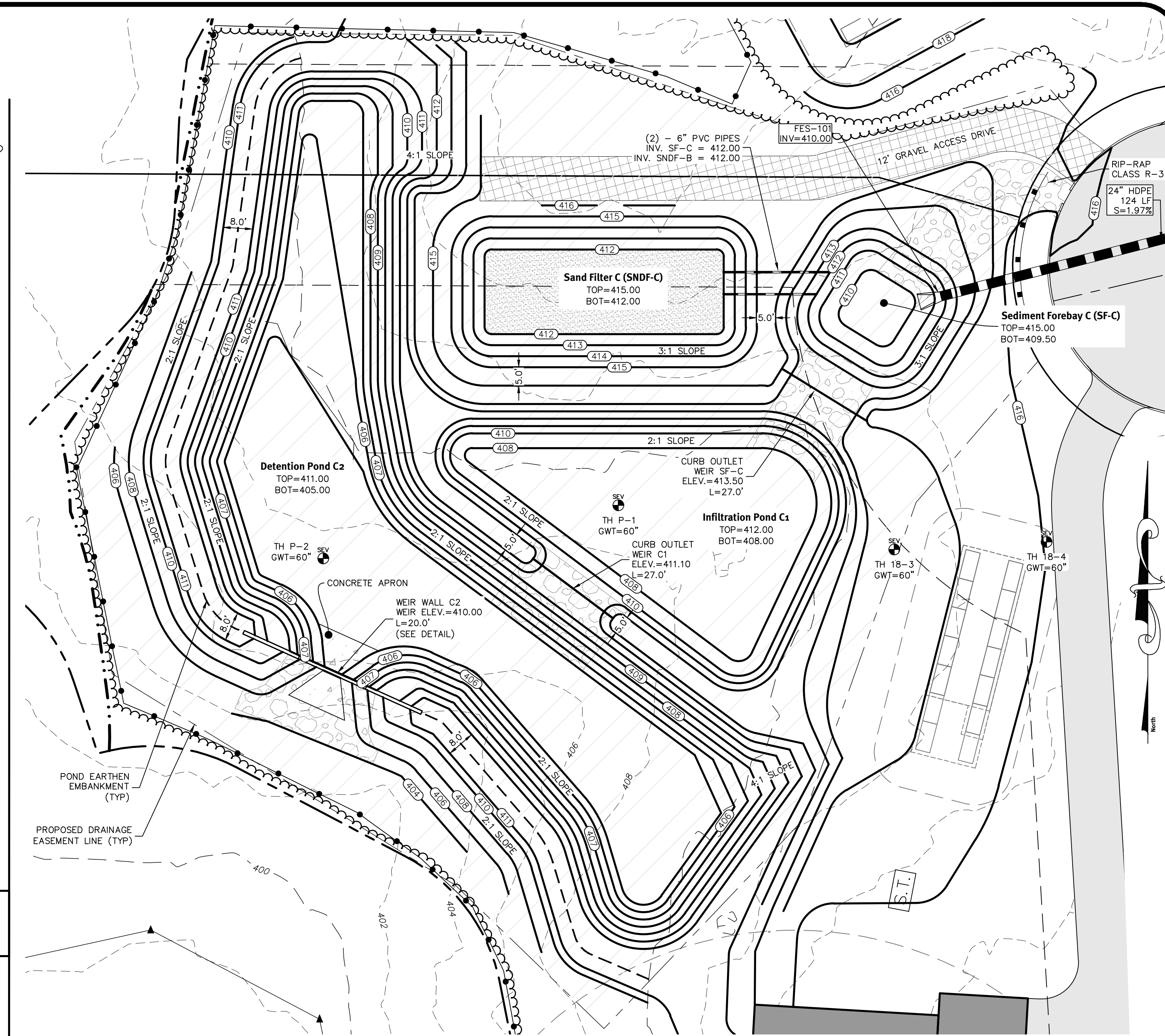


SECTION B-B
NOT TO SCALE

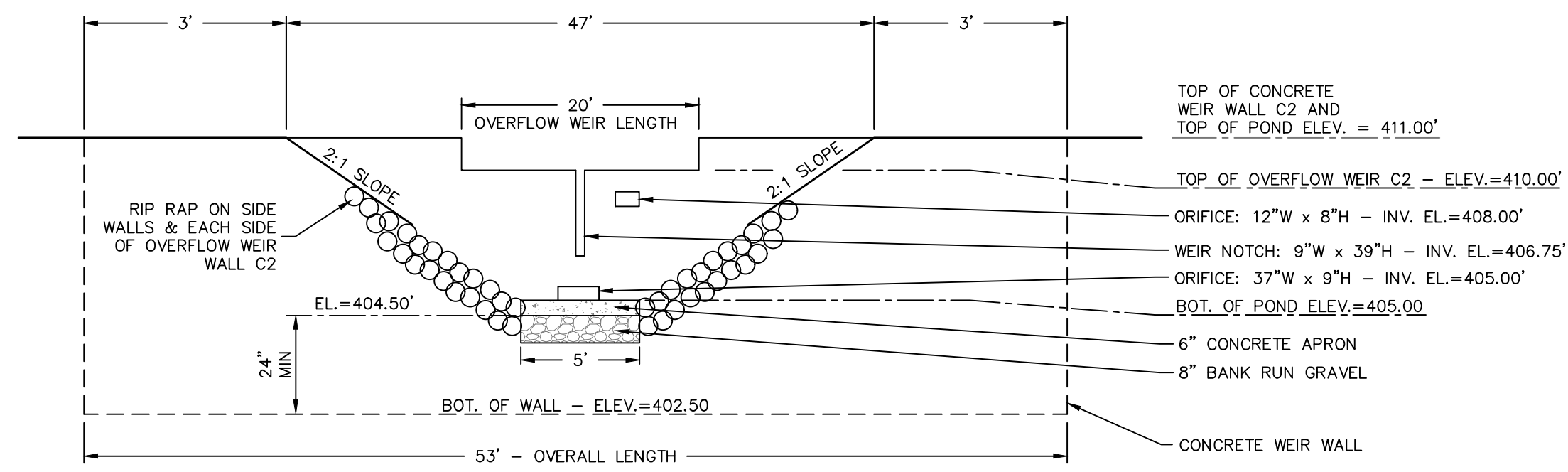
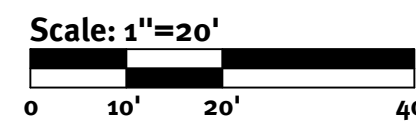
NOTE:
ALL CONCRETE CURB WEIRS MUST BE MONOLITHIC.
CONCRETE CURB WEIRS CANNOT BE MULTIPLE
PRECAST CURBS JOINED IN SEQUENCE.

CONCRETE CURB TO BE SET ON GRAVEL BORROW SUBBASE IN ACCORDANCE WITH RHODE ISLAND STATE STANDARD SPECIFICATIONS. GRAVEL BORROW TO EXTEND MINIMUM 6" BELOW EXISTING TOP/SUBSOIL. ALL BACKFILL SHALL BE FREE FROM ORGANIC MATERIALS. ALL MATERIAL PLACED BELOW CURBING SHALL BE COMPACTED TO 95% DENSITY.

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



Drainage System C



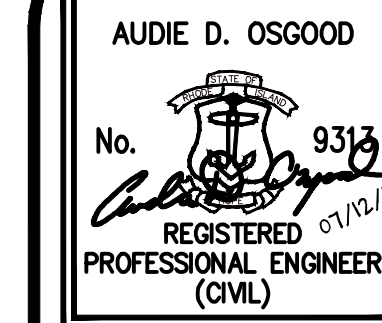
Weir Wall C2 Detail
NOT TO SCALE

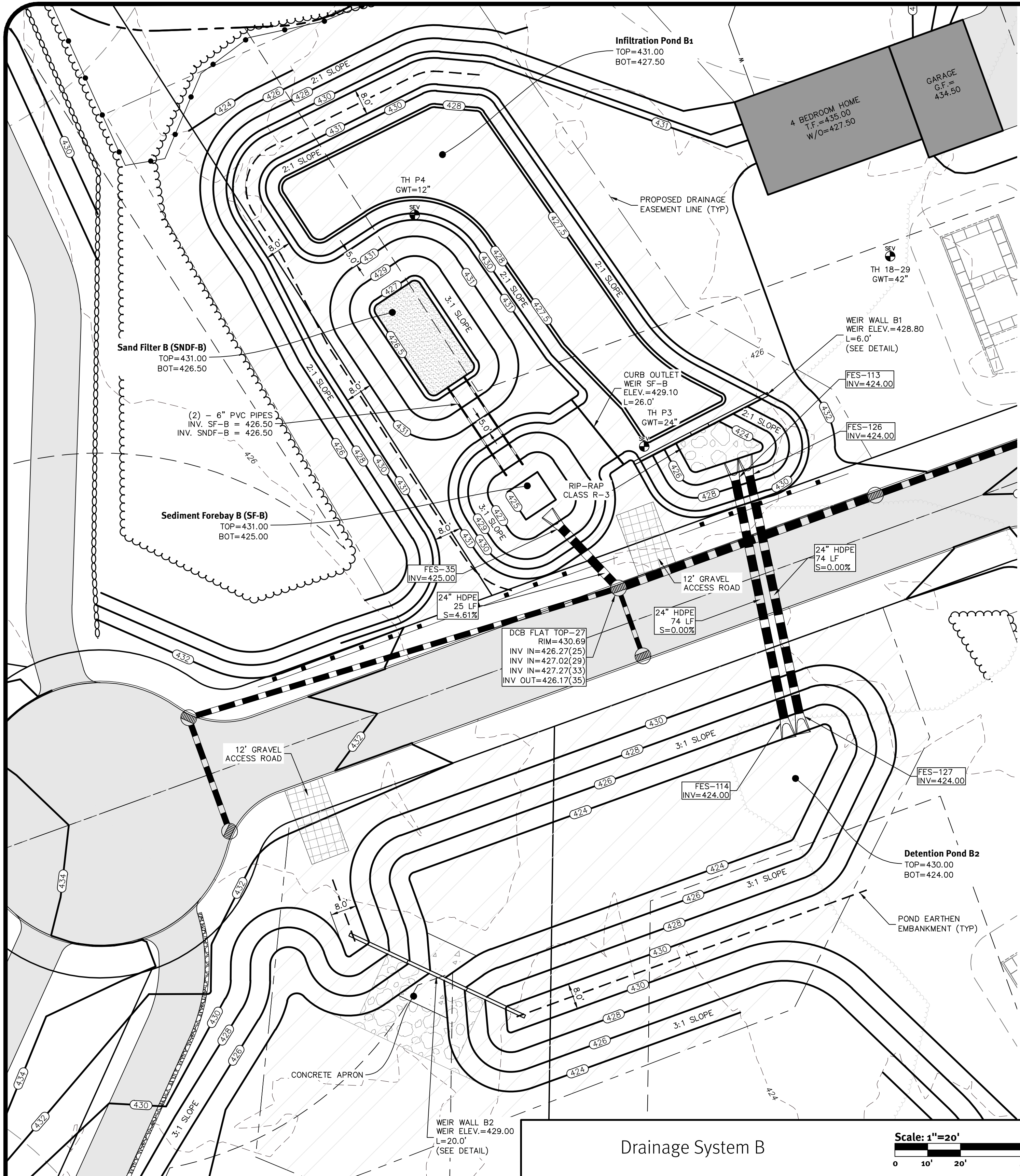
CONCRETE WEIR WALL MUST BE DESIGNED AND STAMPED BY A STRUCTURAL R.I. P.E.

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

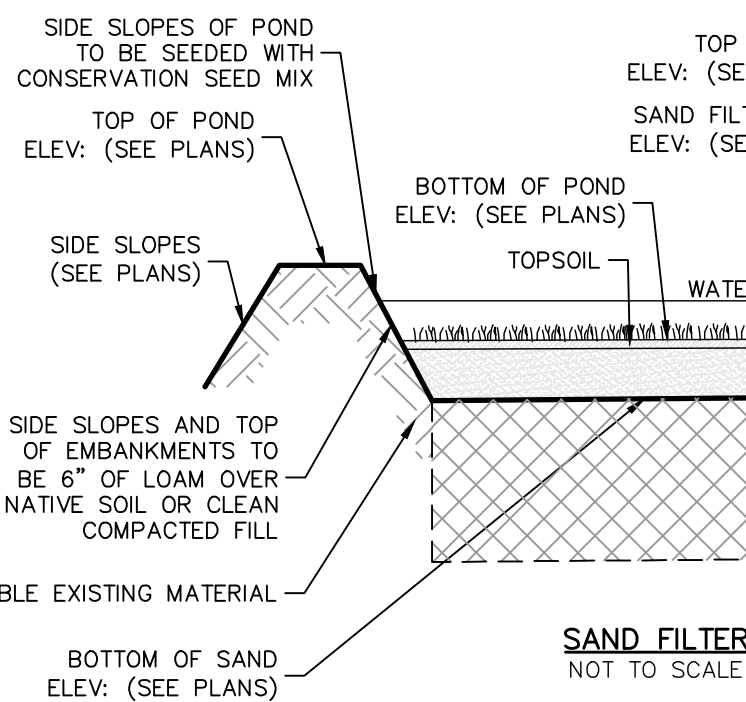
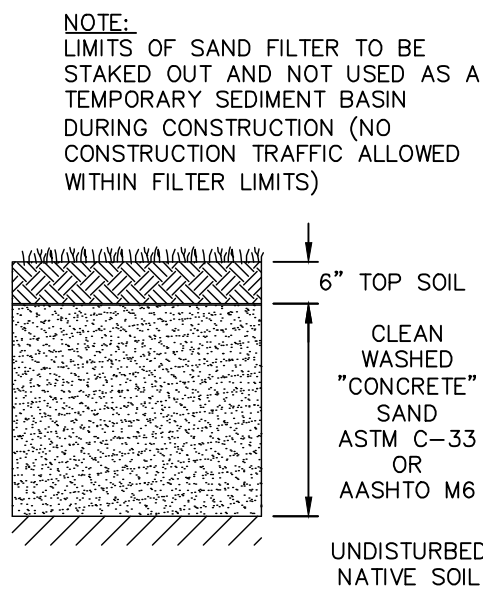
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DESCRIPTION	SNOF-A	SNOF-B	SNOF-C
TOP OF POND ELEVATION	429.50'	431.00'	415.00'
100 YEAR STORM ELEVATION	428.80'	430.16'	414.40'
10 YEAR STORM ELEVATION	428.52'	429.53'	413.89'
1 YEAR STORM ELEVATION	428.30'	429.20'	413.59'
1.2" STORM ELEVATION	428.12'	429.06'	413.43'
BOTTOM OF POND ELEVATION	427.00'	426.50'	412.00'
BOTTOM OF POND ELEVATION	424.50'	424.50'	410.00'
SAND & TOP SOIL DEPTH	2.5'	2.0"	2.0'
SEASONAL HIGH GWT ELEVATION	423.50'	423.50'	409.00'
SOIL EVALUATION	TH-P5	TH-P4	TH-P1



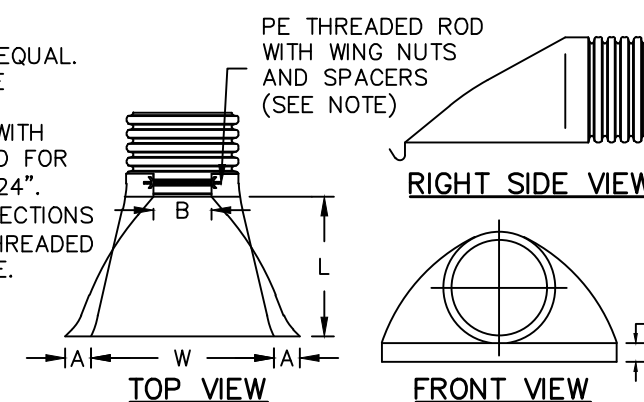
Sand Filter BMP System

NOT TO SCALE

SAND FILTERS: A, & B
INFILTRATION PONDS: A1, B1, & C1
EXCAVATE A & B HORIZONS
AND BACKFILL WITH LOAMY SAND

NOTE:

1. ADS OR APPROVED EQUAL.
2. ALL DIMENSIONS ARE NOMINAL.
3. PE THREADED ROD WITH WING NUTS PROVIDED FOR END SECTIONS 12" - 24".
4. 30" AND 36" END SECTIONS REQUIRE TWO (2) THREADED RODS FOR ASSEMBLY.



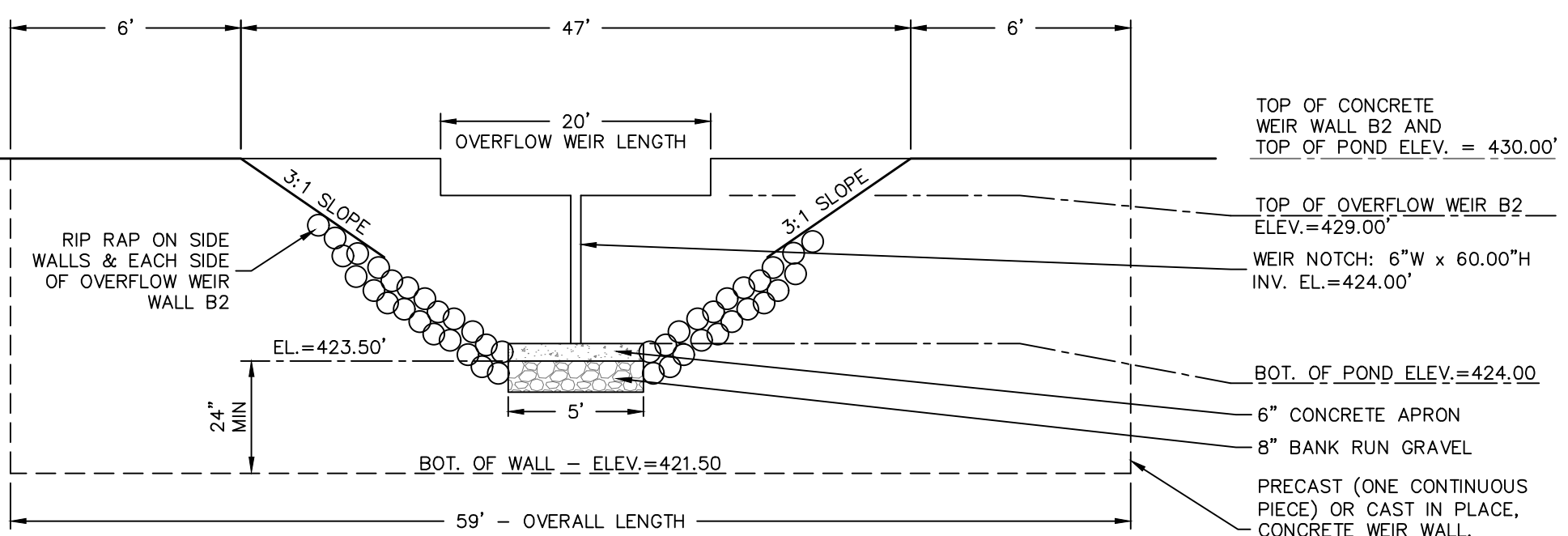
PART #	PIPE SIZE	A	B (MAX)	H	L	W
1210NP	12 IN (300 MM)	6.50 IN (165 MM)	10 IN (254 MM)	6.50 IN (165 MM)	25 IN (635 MM)	29 IN (737 MM)
1510NP	15 IN (375 MM)	6.50 IN (165 MM)	10 IN (254 MM)	6.50 IN (165 MM)	25 IN (635 MM)	29 IN (737 MM)
1810 NP	18 IN (450 MM)	7.50 IN (191 MM)	15 IN (381 MM)	6.50 IN (165 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)	12 IN (305 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 Trench Detail

NOT TO SCALE



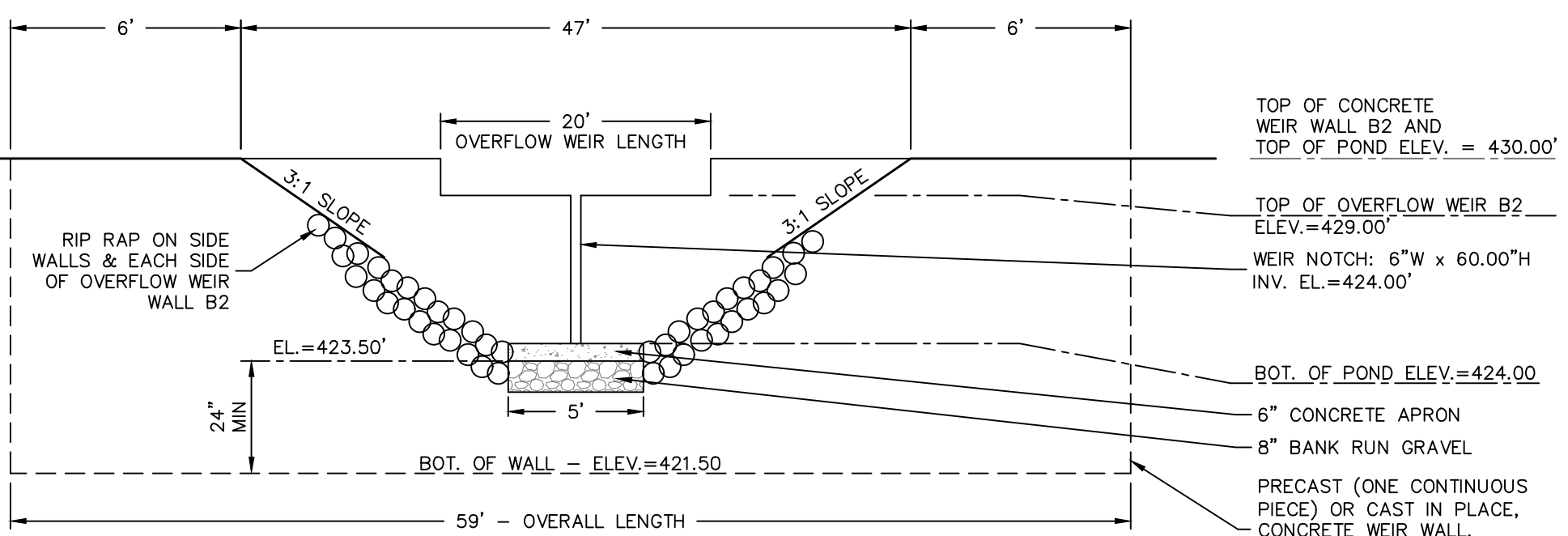
Weir Wall B2 Detail

NOT TO SCALE

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

HDPE Trench Detail

NOT TO SCALE

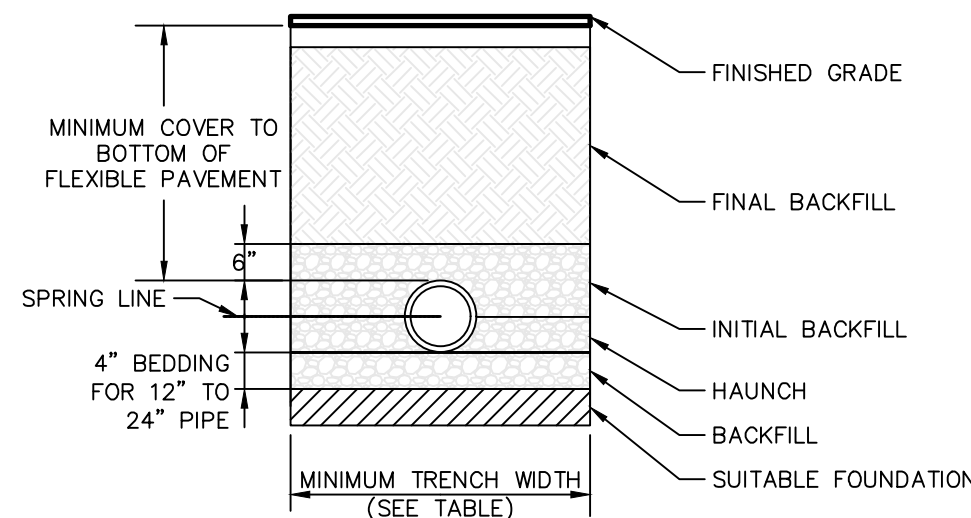


Weir Wall B1 Detail

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

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



Pond Earthen Embankment

NOT TO SCALE

INSTALLATION NOTES:

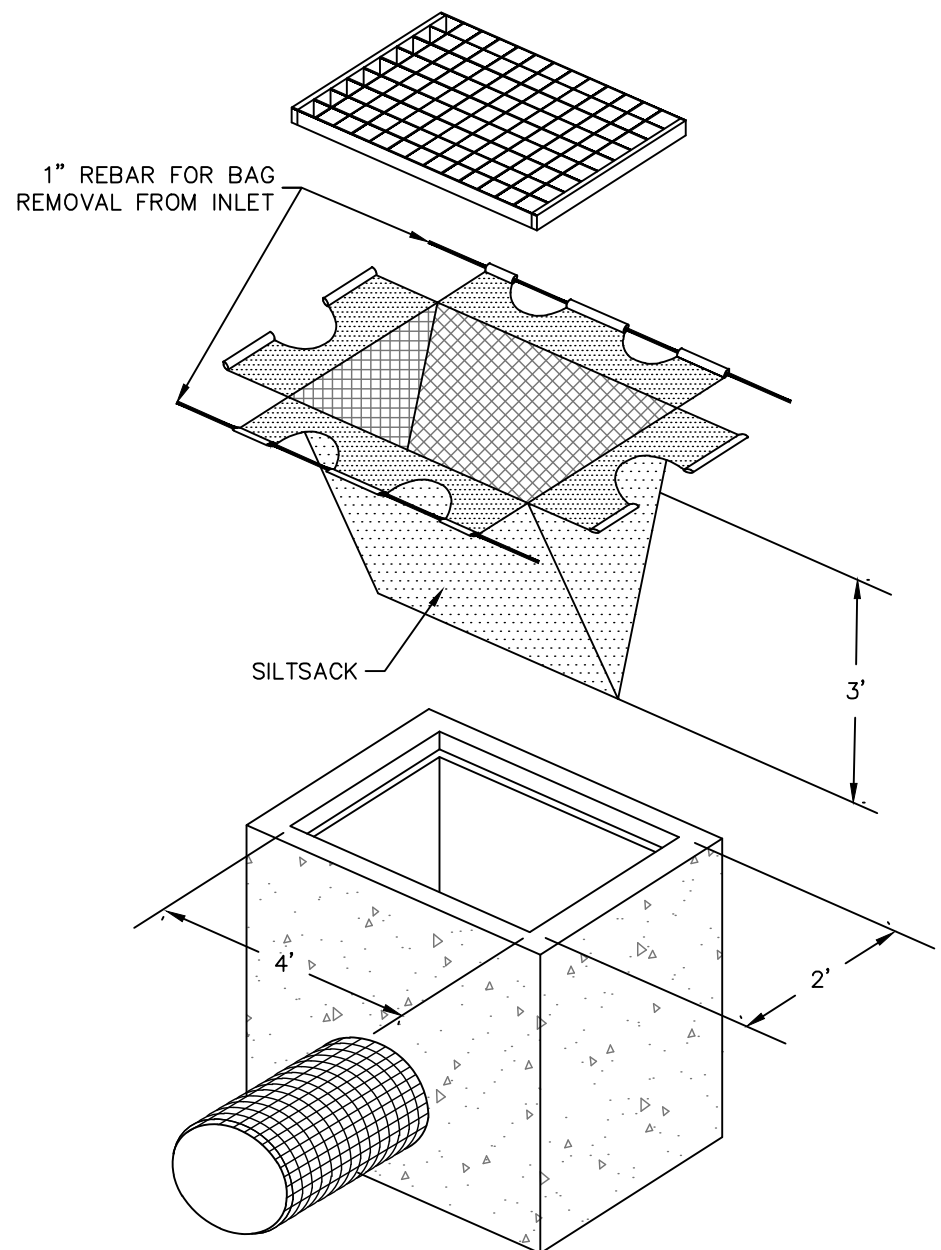
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS, LATEST EDITION.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. 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.
4. 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).
5. 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.
6. 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.

NOTES:

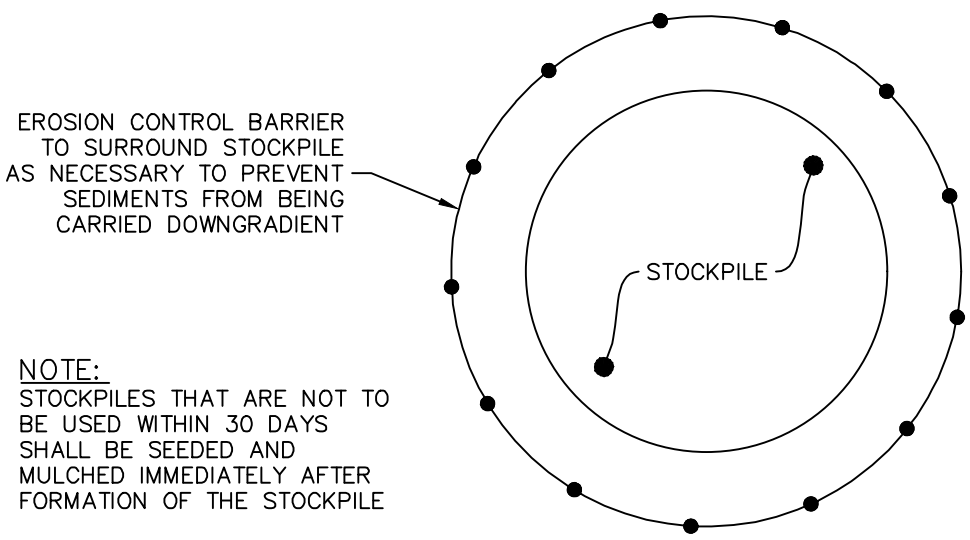
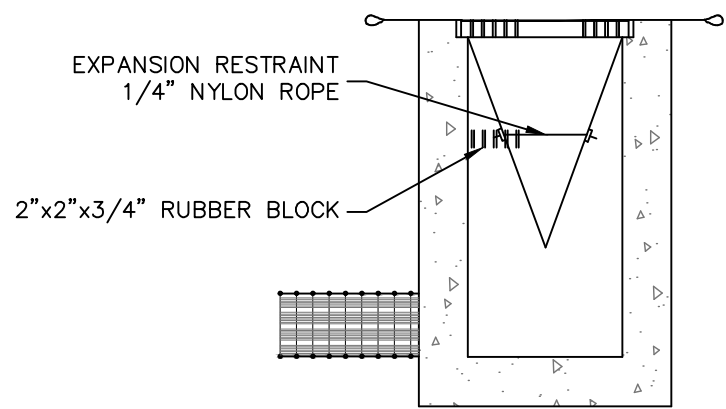
1. IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS.
2. IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF A MATERIAL WITH A MINIMUM OF 55% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.00005 CM/S.
3. WELL DRAINED SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
4. MINIMUM DEPTH OF CUTOFF TRENCH (H) SHALL BE 3/4 OF THE TOTAL BERM HEIGHT.
5. THE IMPERVIOUS CORE AT A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
6. THE MINIMUM BOTTOM WIDTH (A) SHALL BE 5'-8", AND WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
7. SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.
8. IF BEDROCK IS ENCOUNTERED BELOW THE DAM THE CUT OFF TRENCH CAN BE REDUCED TO 1'x1' (AXH).
9. 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".
10. 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.
11. THE IMPERVIOUS CORE SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.
12. ALL EMBANKMENTS TO BE DESIGNED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION. ALL EMBANKMENT INSTALLATIONS TO BE SUPERVISED BY A GEOTECHNICAL ENGINEER.

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

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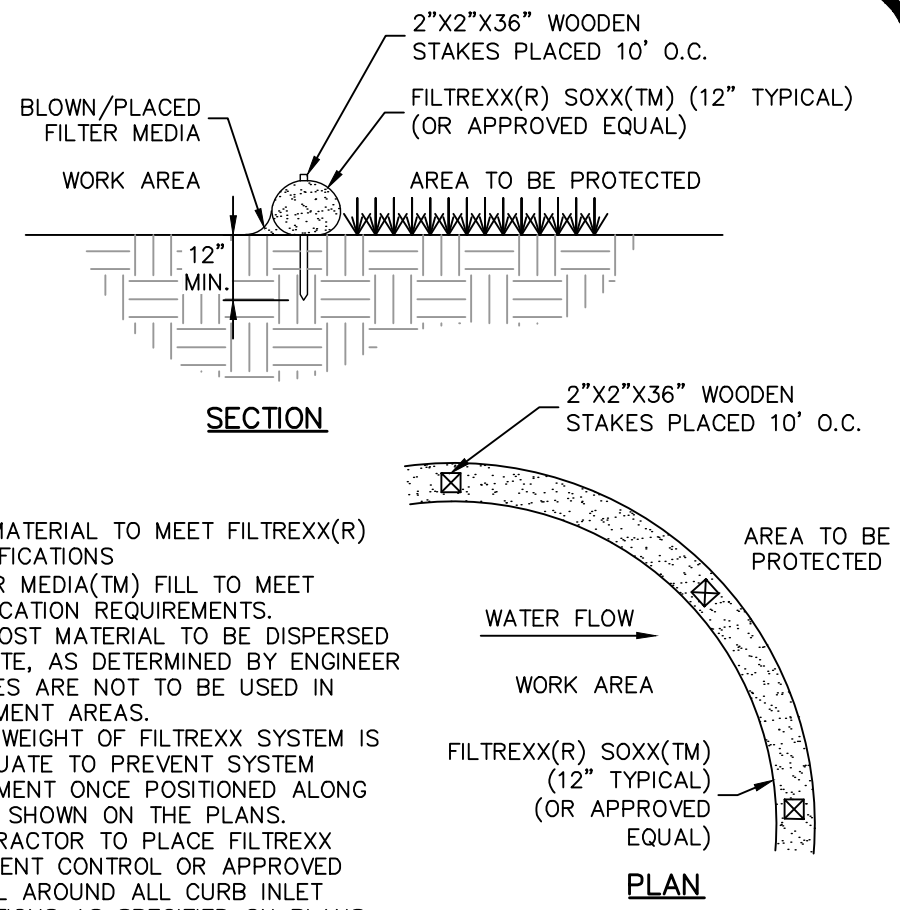
NOTE:
REGULAR FLOW=40 GAL./MIN/SF
HIGH FLOW=200 GAL./MIN/SF



NOTE:
STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS SHALL BE SEED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE

Typical Stockpile Erosion Control Installation

NOT TO SCALE



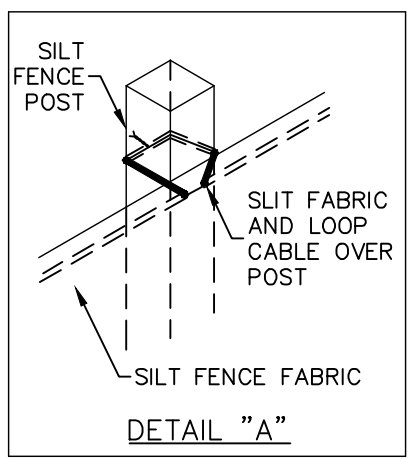
NOTES:

1. ALL MATERIAL TO MEET FILTREXX(R) SPECIFICATIONS.
2. FILTER MEDIA(TM) FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
4. STAKES ARE NOT TO BE USED IN PAVEMENT AREAS.
5. SELF WEIGHT OF FILTREXX SYSTEM IS ADEQUATE TO PREVENT SYSTEM MOVEMENT ONCE POSITIONED ALONG AREA SHOWN ON THE PLANS.
6. CONTRACTOR TO PLACE FILTREXX SEDIMENT CONTROL OR APPROVED EQUAL AROUND ALL CURB INLET LOCATIONS AS SPECIFIED ON PLANS.

Filtrex Sediment Control (or Approved Equal)

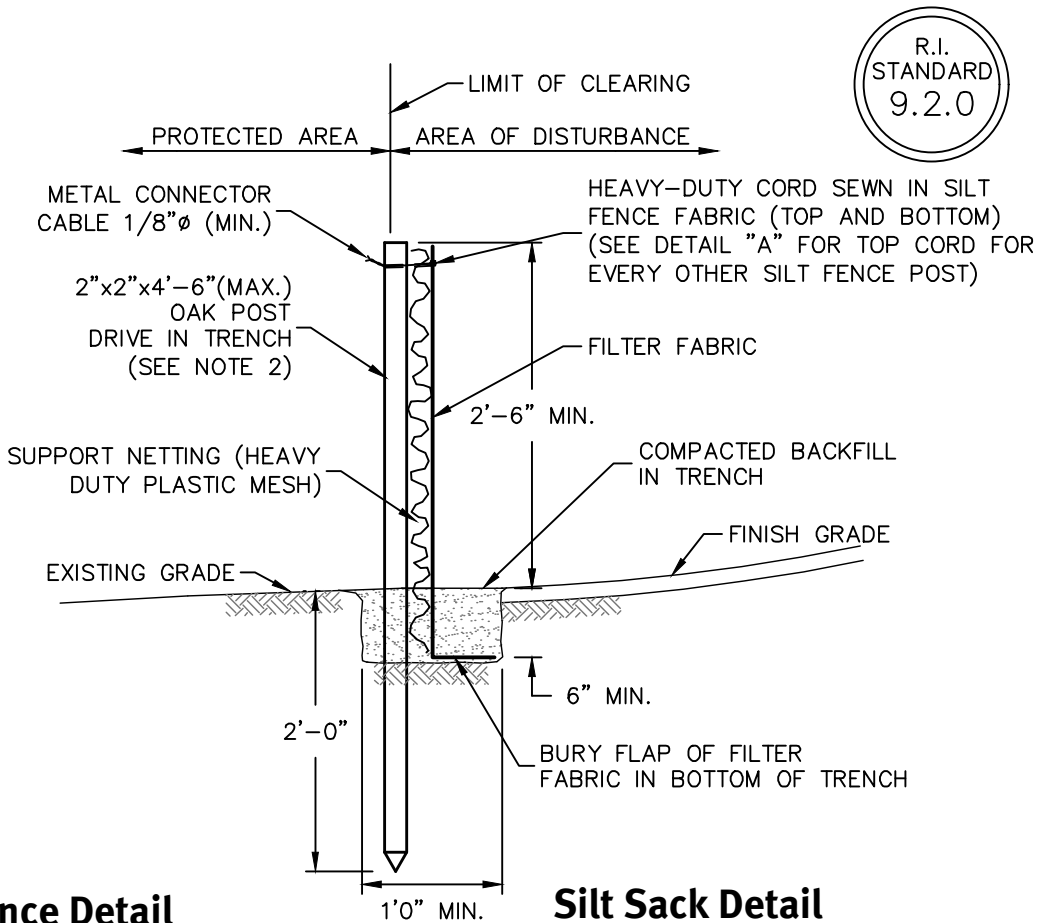
NOT TO SCALE

- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 2. 2"x2"x4"-6"(MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 3. 1"x1"x4"-6"(MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



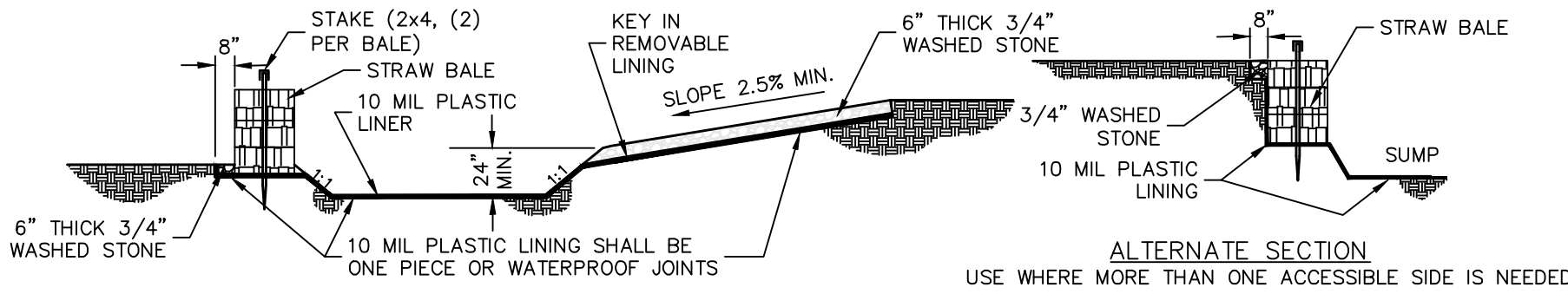
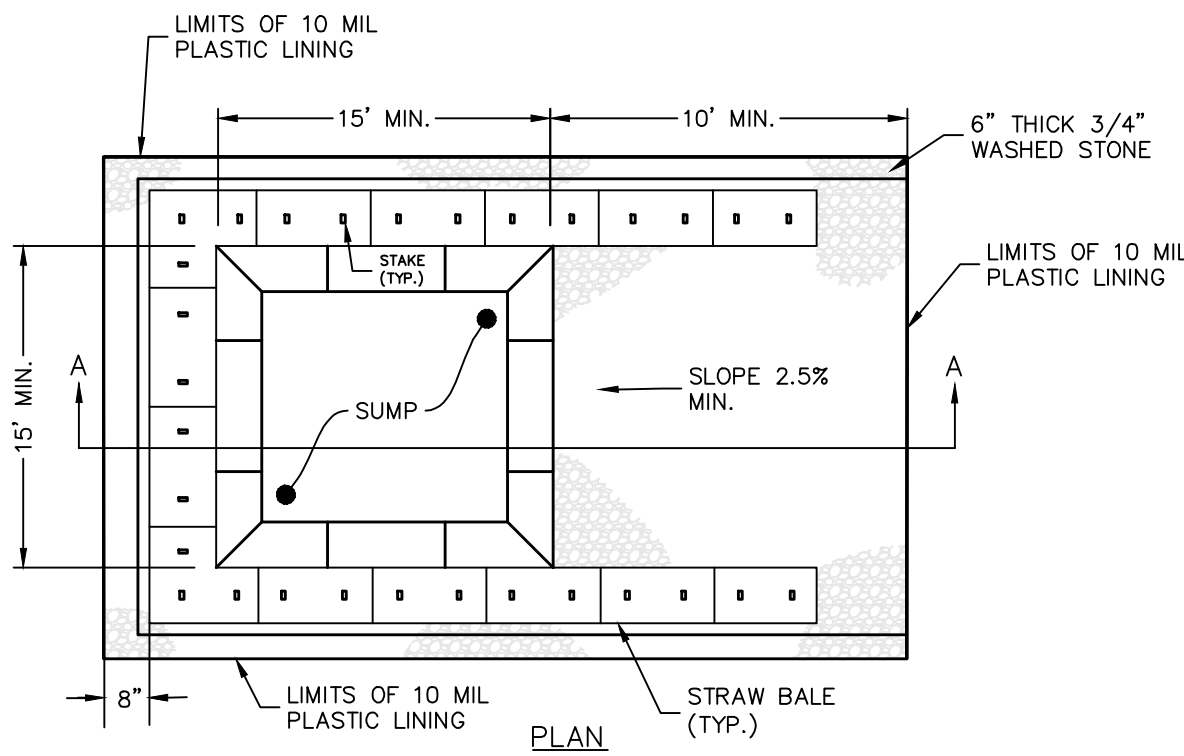
Silt Fence Detail

NOT TO SCALE



Silt Sack Detail

NOT TO SCALE



NOTES:

1. PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
4. FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
5. SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
6. CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, & SURFACE WATERS.
7. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

Concrete Washout Area

(NOT TO SCALE)

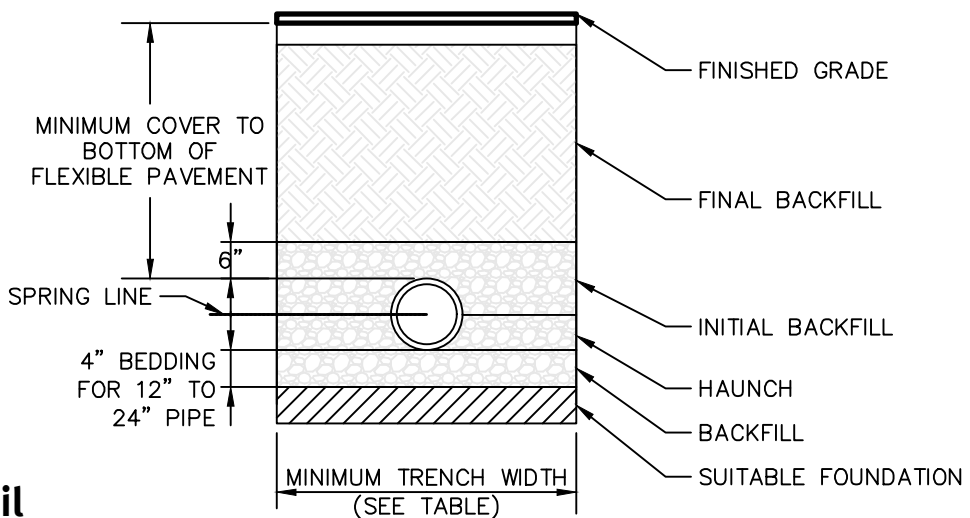


WASHOUT SIGN

HDPE INSTALLATION NOTES:

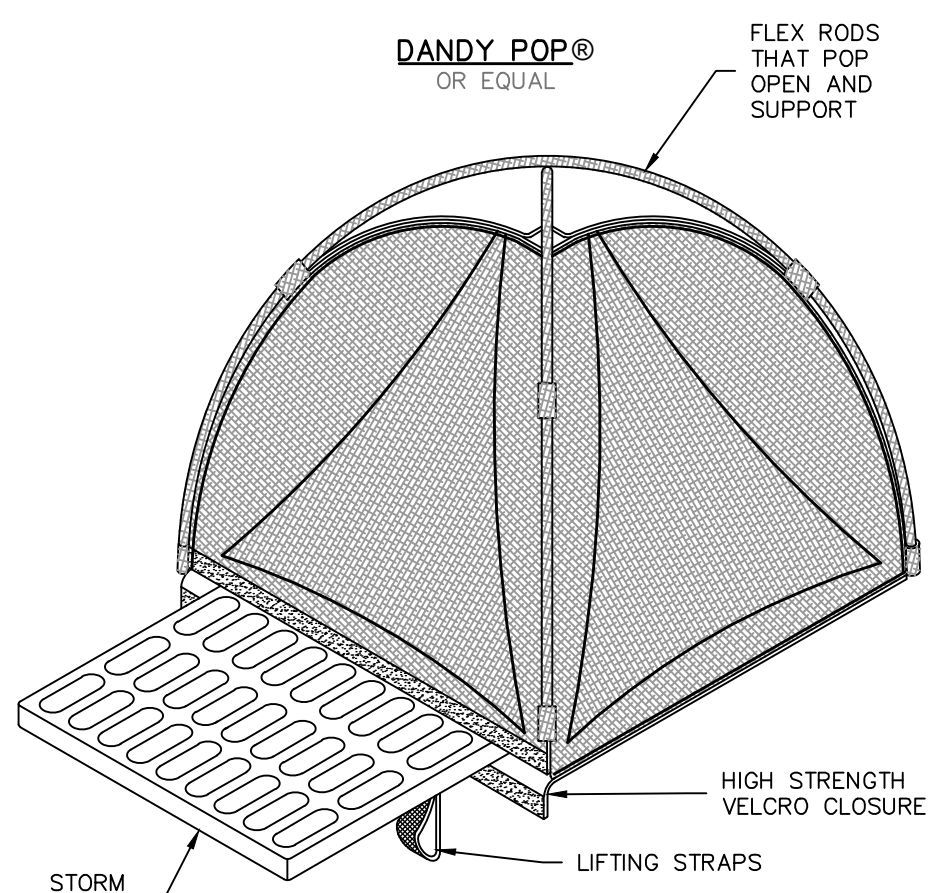
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS, LATEST EDITION.
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PIPE DIAMETER	MINIMUM TRENCH WIDTH
6"	23"
8"	26"
12"	30"
15"	34"
24"	39"
30"	56"
36"	64"
42"	72"
48"	80"
60"	96"



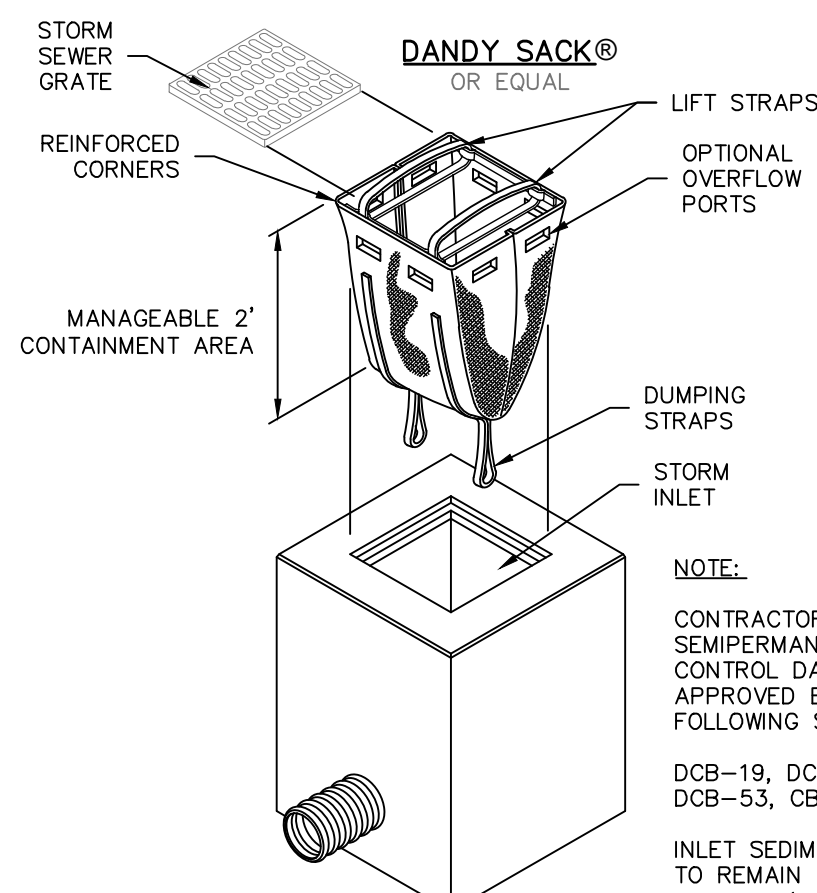
HDPE Trench Detail

NOT TO SCALE



Inlet Sediment Control Devices

NOT TO SCALE



NOTE:

CONTRACTOR TO INSTALL SEMIPERMANENT INLET SEDIMENT CONTROL DANDY SACKS OR APPROVED EQUAL DEVICES ON THE FOLLOWING STRUCTURES:

DCB-19, DCB-20, DCB-48, DCB-52, DCB-53, CB-49, CB-89, & CB-90

INLET SEDIMENT CONTROL DEVICES TO REMAIN IN PLACE UNTIL FUTURE PHASES. (SEE PLAN FOR LOCATIONS)

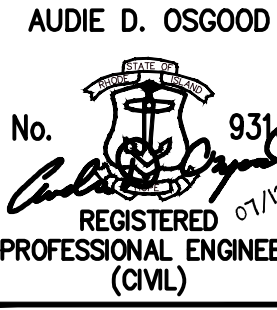
Detail Sheet - 1

Highland Woods

Assessor's Map 7 Plat 39, Lots 12 & 156
East Greenwich, Rhode Island 02818

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

SHEET 17 OF 18



This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Drawn By	Design By
5	7-12-2019	Owner Engineer Comments	IAQ	M.S.C.
4	7-12-2018	Owner Engineer Comments	IAQ	M.S.C.
3	7-26-2018	Owner Engineer Comments	IAQ	M.S.C.
2	06-20-2018	Owner Engineer Comments	IAQ	M.S.C.
1	08-24-2017	Owner Engineer Comments	IAQ	M.S.C.
0	12-23-2016	Pre-Application Submission	IAQ	M.S.C.
1	12-23-2016	Pre-Application Submission	IAQ	M.S.C.

Drawn By: IAQ Design By: M.S.C.

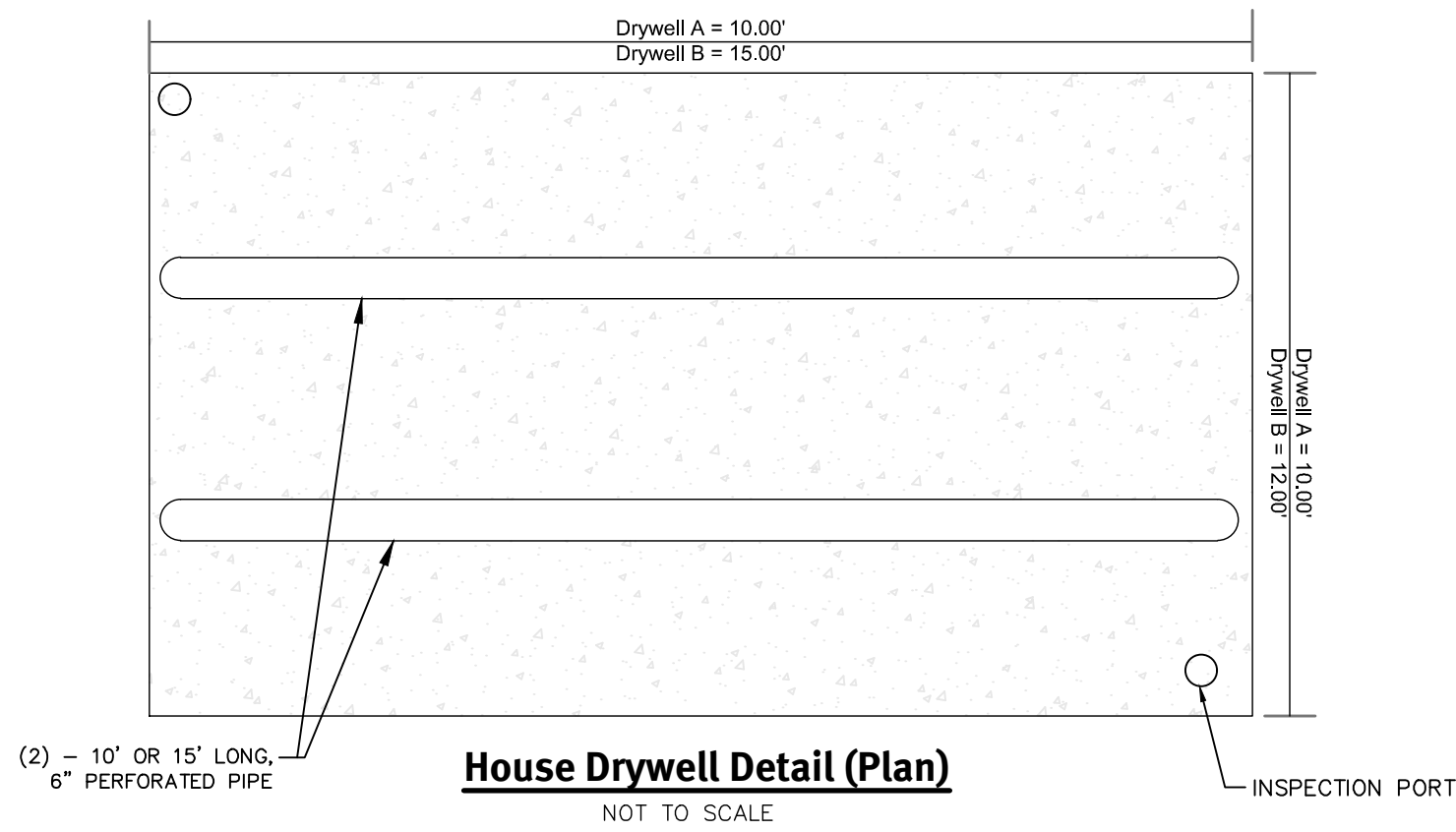
DE Job No: 2406-001-A01 Copyright 2018 by DiPrete Engineering Associates, Inc.

DiPrete Engineering

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

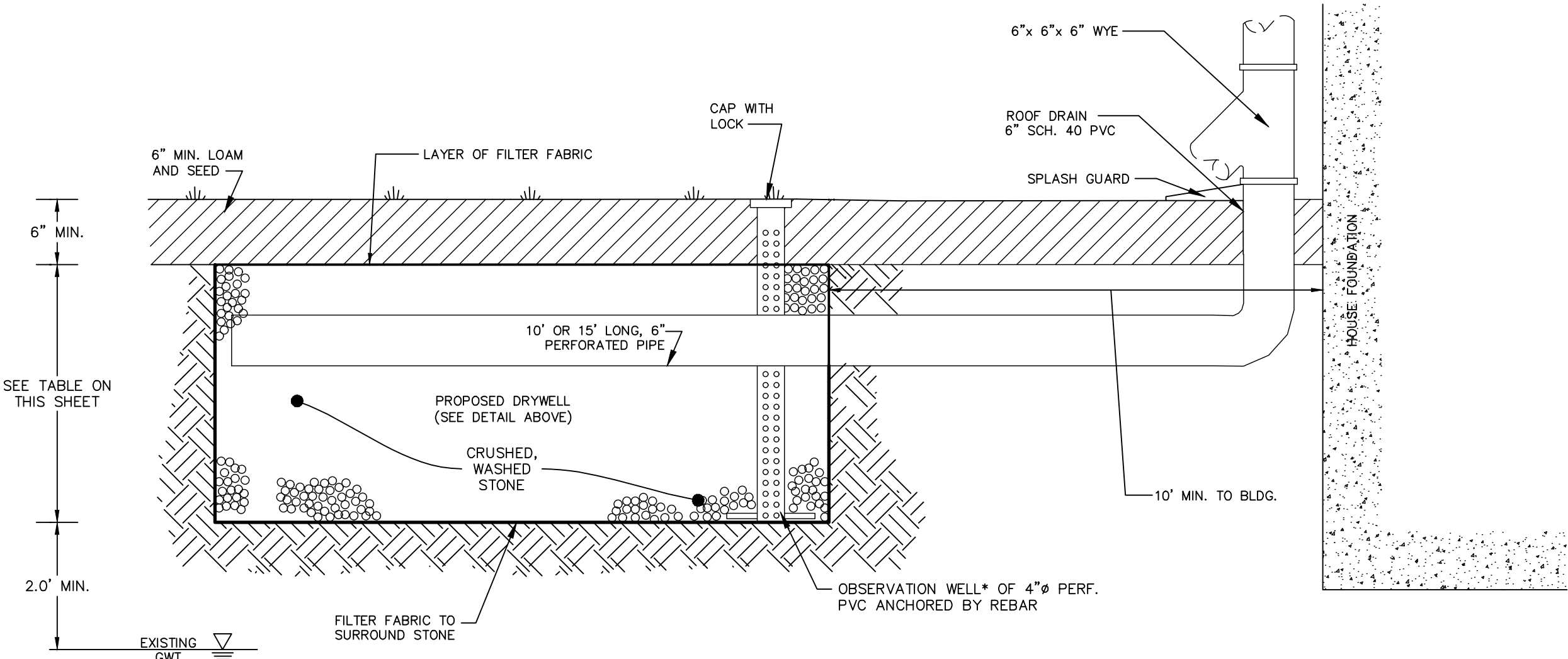
Boston • Providence • Newport

z:\main\projects\2406-001 taggart court\autocad drawings\2406-001 plan.dwg Plotted: 7/12/2019



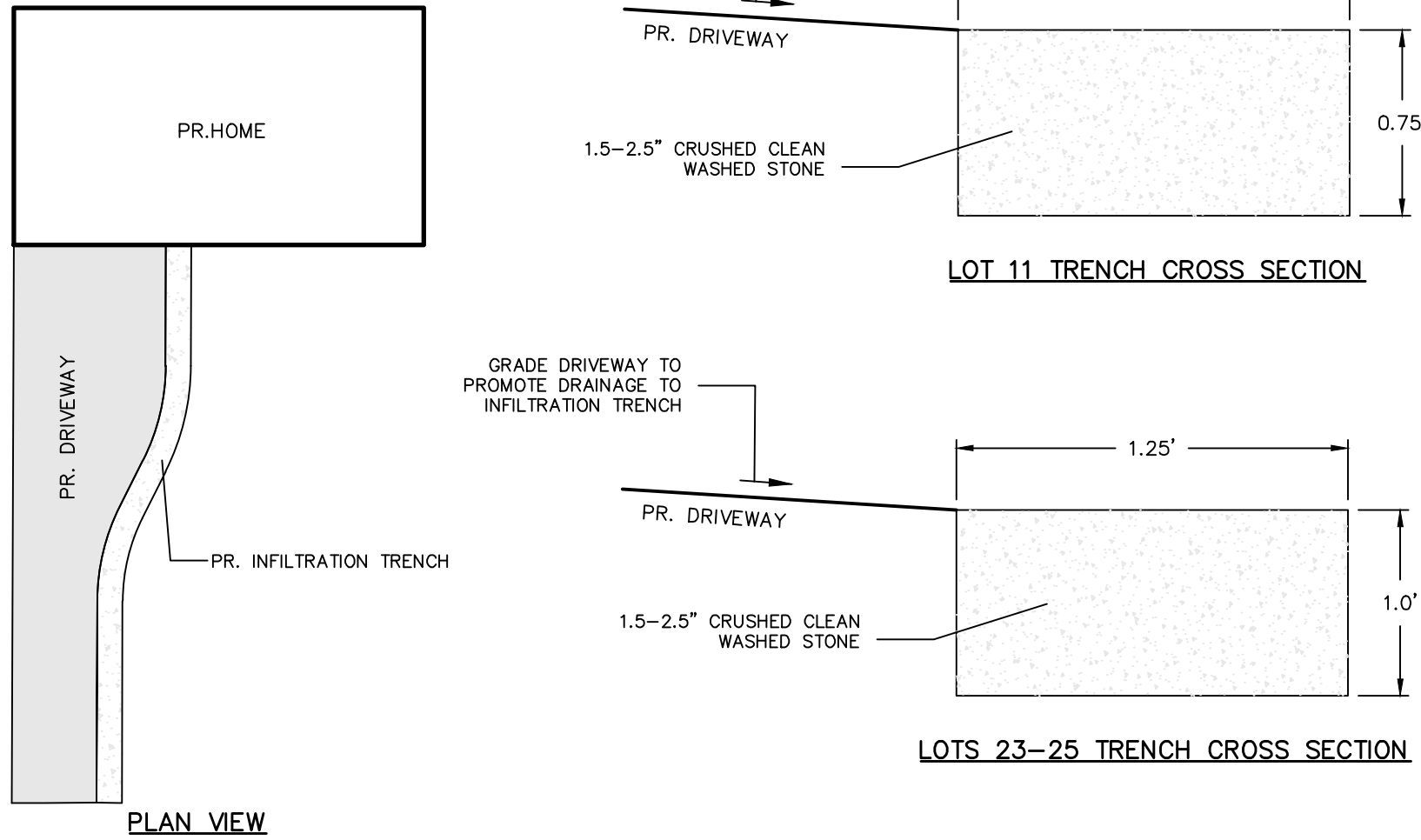
CONSTRUCTION, MAINTENANCE, & INSPECTION NOTES:

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



Infiltration Trench Detail

NOT TO SCALE

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 Seperation Table

NOT TO SCALE

Drywell Sizing Notes

1. THE HOMEOWNER / BUILDING CONTRACTOR IS RESPONSIBLE FOR THE FINAL SIZING, LOCATION AND SPERATION 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 RI PROFESSIONAL ENGINEER.

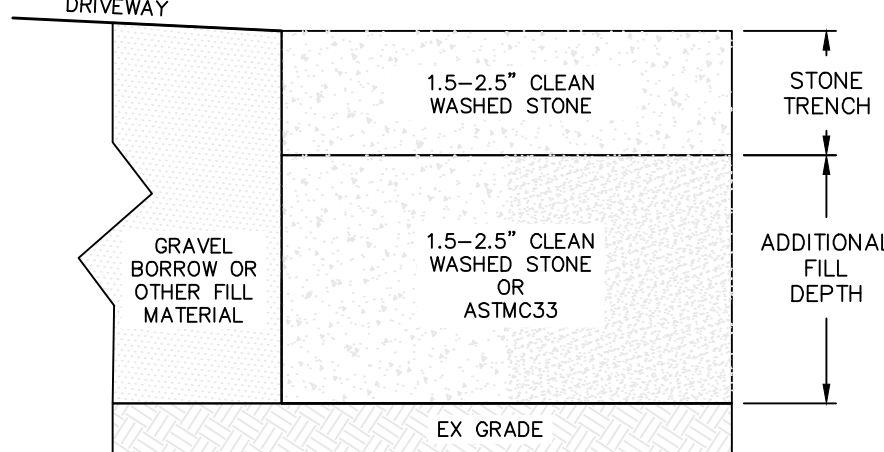
LOT	MINIMUM DRIVEWAY ELEVATION	GWT ELEVATION	MINIMUM SEPARATION DISTANCE (FEET)
11	422.00	416.00	2.50
23	416.00	412.00	2.50
24	424.00	416.00	7.50
25	428.00	422.00	3.50

Stone Trench Groundwater Separation Table

NOT TO SCALE

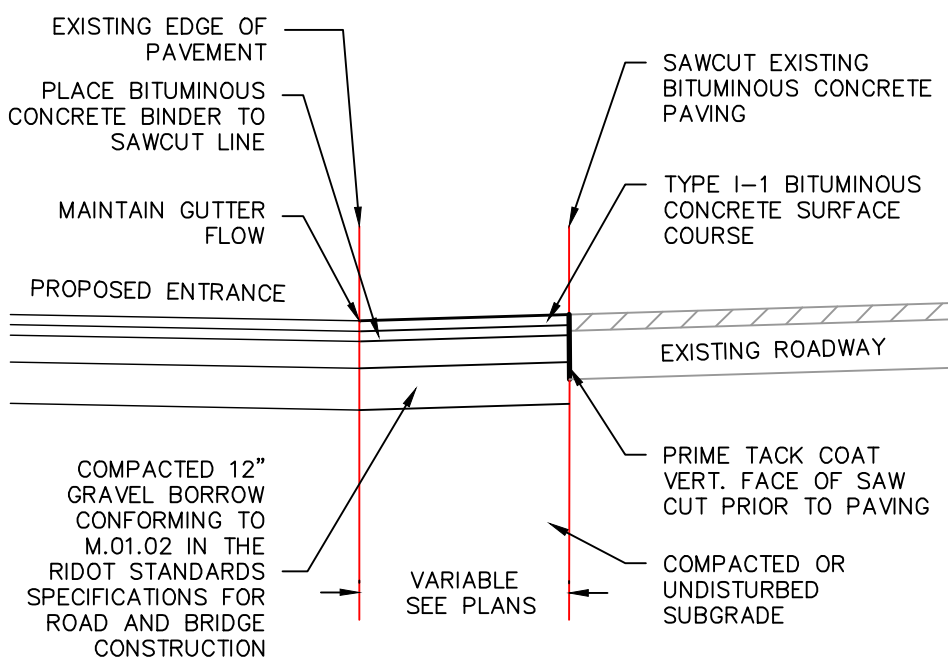
CONSTRUCTION NOTES:

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 401-664-6006 www.diprete-eng.com

Boston • Providence • Newport

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

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

Rev	Date	Description	By	Design By
5	7-12-2019	Owner Engineer Comments	A.C.O.	M.S.C.
4	7-12-2018	Owner Engineer Comments	A.C.O.	M.S.C.
3	7-26-2018	Owner Engineer Comments	A.C.O.	M.S.C.
2	6-18-2018	Owner Engineer Comments	A.C.O.	M.S.C.
1	6-18-2017	Owner Engineer Comments	A.C.O.	M.S.C.
0	12-23-2016	Owner Engineer Comments	A.C.O.	M.S.C.

Detail Sheet - 2
Highland Woods

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

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

SHEET **18** OF 18

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