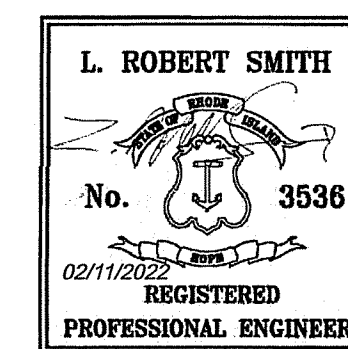


# CUMBERLAND BEAGLE CLUB PROPOSED CLUBHOUSE

NATE WHIPPLE HIGHWAY  
CUMBERLAND, RHODE ISLAND  
AUGUST 3, 2021  
REVISED: FEBRUARY 11, 2022

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SHEET 3	GENERAL NOTES & LEGEND
SHEET 4	200' RADIUS PLAN
SHEET 5	PROPOSED AERIAL MAP
SHEET 6	DEMOLITION PLAN
SHEET 7	SITE LAYOUT PLAN
SHEET 8	GRADING & DRAINAGE PLAN
SHEET 9	UTILITY PLAN
SHEET 10	SOIL EROSION & SEDIMENT CONTROL PLAN
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SHEET 12	DETAIL PLAN 2
SHEET 13	DETAIL PLAN 3
SHEET 14	SITE PLAN - OWTS (REFERENCE)
SHEET 15	DETAILS FOR OWTS (REFERENCE)



\* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

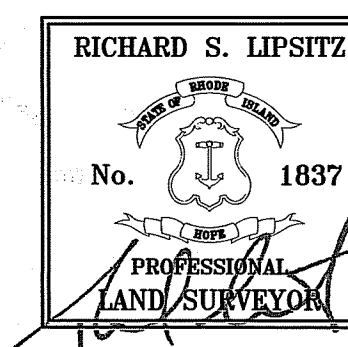
### CERTIFICATION

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 26, 2016, AS FOLLOWS:

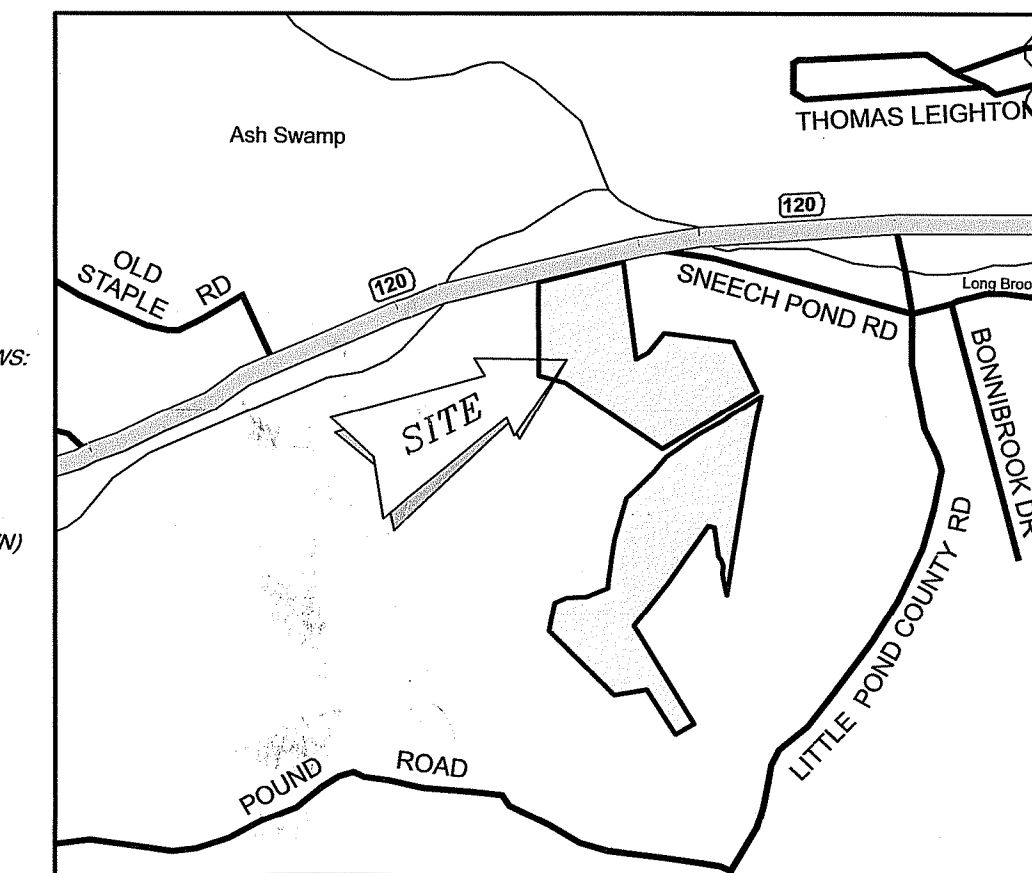
TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY MEASUREMENT / ACCURACY SPECIFICATION: I

OTHER TYPE OF SURVEY: DATA ACCUMULATION TOPOGRAPHIC SURVEY III T-1 (PARTIAL TOPOGRAPHIC SURVEY AS SHOWN)

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.



BY: *[Signature]* RICHARD S. LIPSITZ, P.L.S. REG. NO. 1837 DATE 02/11/2022  
WATERMAN ENGINEERING COMPANY (COA No. L.S.0004483)



LOCATION MAP

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
REVIEWED SITE PLAN APPLICATION #: 20-0292  
DATED: MAR 29 2022  
SEE LETTER OF SAME DATE

*Nancy L. Freeman*

A.P. 40, LOTS 7 & 43

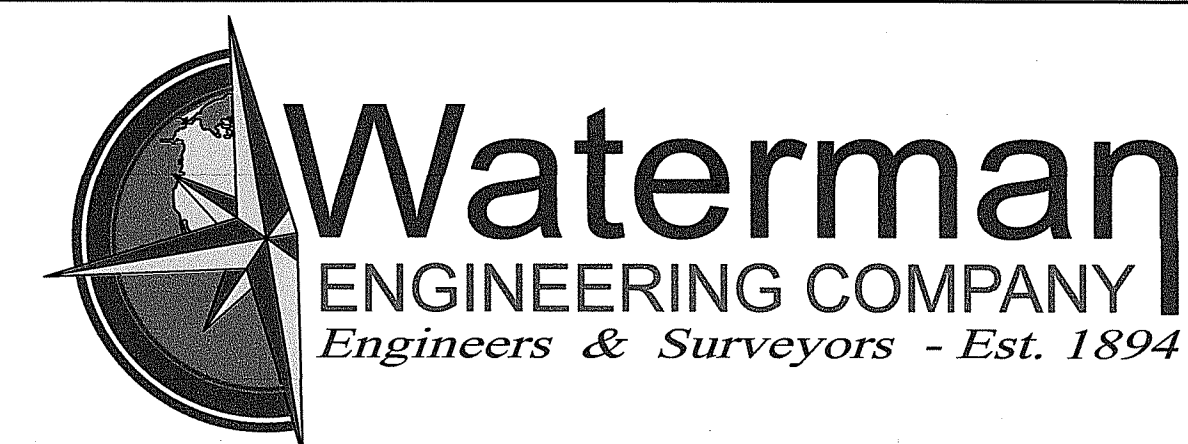
OWNER/APPLICANT:

CUMBERLAND BEAGLE CLUB  
C/O FRED LERMER (CLUB PRESIDENT)

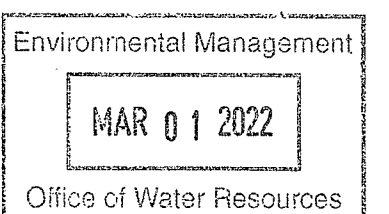
MAILING ADDRESS:  
P.O. BOX 7413  
CUMBERLAND, RI 02864

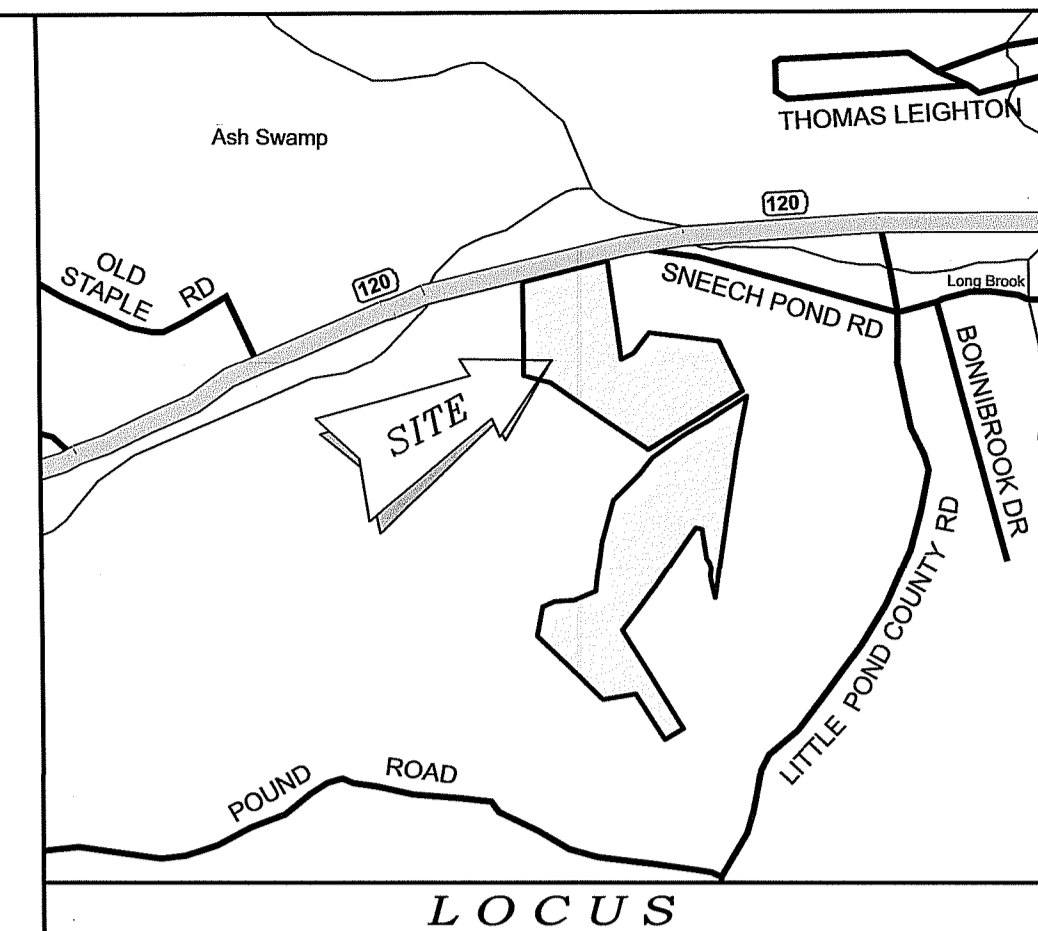
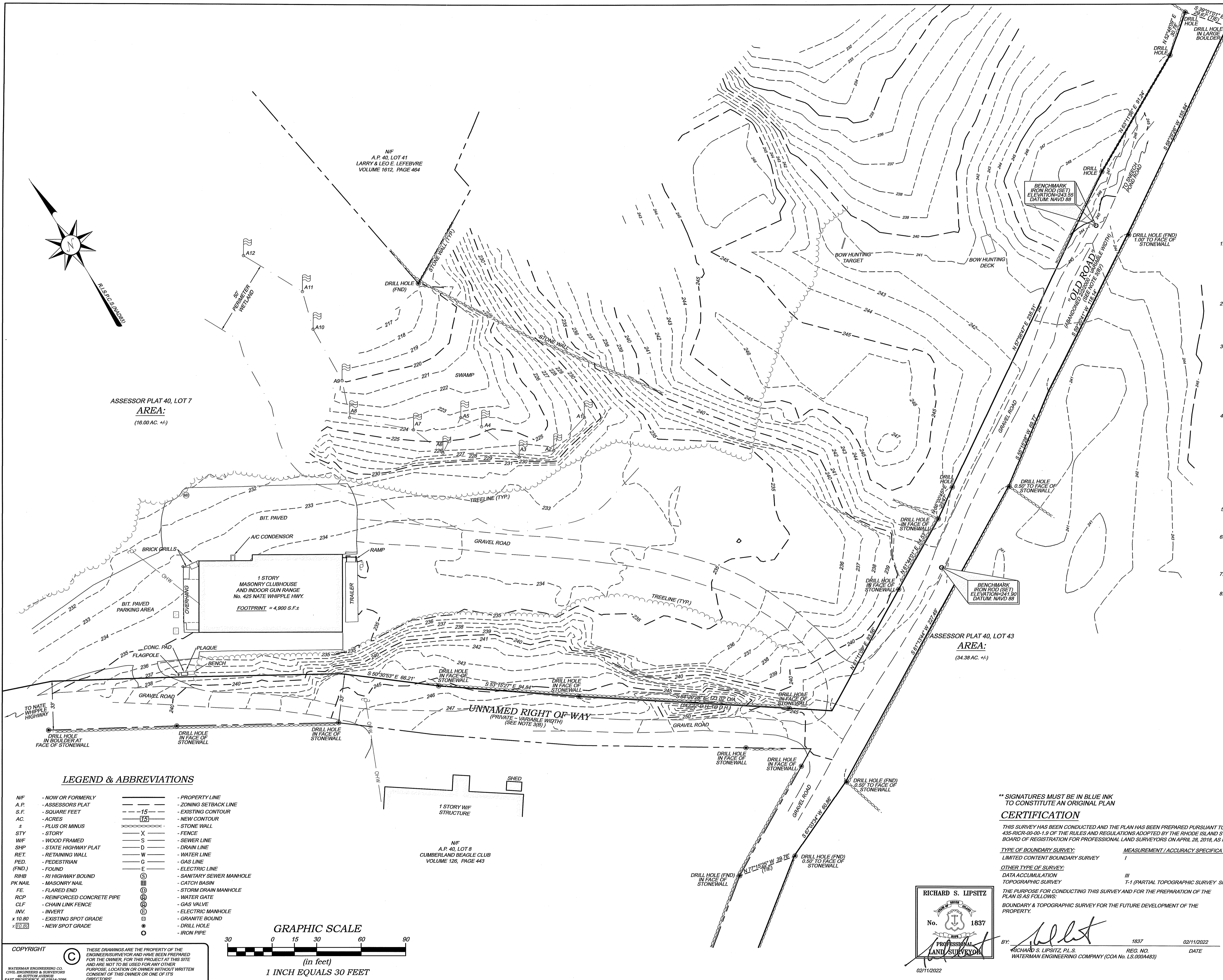
SITE ADDRESS:  
425 NATE WHIPPLE HIGHWAY  
CUMBERLAND, RI 02864

RIDEM SUBMISSION



46 Sutton Avenue  
East Providence, RI  
Phone: (401) - 438 - 5775  
Fax: (401) - 438 - 5773  
www.watermanengineering.net





- ### NOTES / REFERENCES
- REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD:
    - PLAN ENTITLED "SURVEY AND DIVISION OF LAND FOR THE ESTATE OF JOSEPHINE MATTA TO BE CONVEYED TO THE CUMBERLAND BEAGLE CLUB, INC. DESIGNATED AS ASSESSOR LOT 43 AND A PORTION OF LOT 9 OF PLAT 40, SCALE 1" = 100' PREPARED BY LOUIS FEDERICI & ASSOCIATES, REVISED JANUARY 14, 1994."
    - PLAN ENTITLED "ADMINISTRATIVE SUBDIVISION FOR EMERALD CROWN AP 40 LOTS 40 & 41 IN CUMBERLAND RHODE ISLAND, SCALE 1" = 300' DATE: FEBRUARY 22, 2005 PROJECT NO: 99105.00, PREPARED BY COMMONWEALTH ENGINEERS & CONSULTANTS, INC."
  - REFERENCE IS MADE TO THE FOLLOWING TOWN OF CUMBERLAND LAND EVIDENCE RECORDS REGARDING RECORDED TITLE TO THE PREMISES SURVEYED:
    - A.P. 40, LOT 7 - CUMBERLAND BEAGLE CLUB - VOLUME 126, PAGE 443
    - A.P. 40, LOT 43 - CUMBERLAND BEAGLE CLUB - VOLUME 1905, PAGE 473
  - THESE PREMISES MAY BE SUBJECT TO THE FOLLOWING EASEMENTS, RIGHTS OF WAY OR AGREEMENTS OF RECORD:
    - RIGHTS AND EASEMENT TO NARRAGANSETT ELECTRIC COMPANY FOR DISTRIBUTION OF ELECTRIC & TELEPHONE USE AS DESCRIBED IN VOLUME 1857, PAGE 411.
    - RIGHTS AND RIGHTS OF OTHERS MAY EXIST TO THE "OLD ROAD" AND THE "UNNAMED RIGHT OF WAY" AS SHOWN. THE "UNNAMED RIGHT OF WAY" APPEARS TO BE OWNED BY CUMBERLAND BEAGLE CLUB AS DESCRIBED IN VOLUME 126, PAGE 44. THE "OLD ROAD" WAS ABANDONED 2/22/2000. UPON ABANDONMENT OF CUMBERLAND AS DESCRIBED IN THE TOWN COUNCIL MINUTES DATED 2/22/2000. UPON ABANDONMENT THE OWNERSHIP OF THE "OLD ROAD" REVERTED TO THE CUMBERLAND BEAGLE CLUB, BEING OWNERS OF THE LAND ON BOTH SIDES AS SHOWN.
  - THESE PREMISES ARE SITUATED IN AN 'A-2 ZONE' (WITH WATER OR SEWER, BUT NOT BOTH)
 

**DIMENSIONAL REQUIREMENTS**

    - MIN. LOT WIDTH / FRONTAGE = 80,000 SQ.FT.
    - MIN. LOT DEPTH = 180 FT.
    - MIN. S/B FRONT YARD = 75 FT.
    - MIN. S/B REAR YARD = 30 FT.
    - MIN. S/B SIDE YARD = 20 FT.
    - MAX. LOT COVERAGE = 35 FT.
    - MAX. LOT COVERAGE = 15%

NOTE - ZONING INFORMATION IS FROM CURRENT ZONING AND MAY NOT REFLECT THE CONDITIONS AT THE TIME OF CONSTRUCTION OR ANY VARIANCES GRANTED.
  - THESE PREMISES ARE SITUATED IN A ZONE 'X' (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DESIGNATED ON THE "NATIONAL FLOOD INSURANCE PROGRAM FIRM FLOOD INSURANCE RATE MAP" (FIRM NO. 190501010001) AND ALL JURISDICTIONS PANEL 105 OF 461 TOWN OF CUMBERLAND MAP NUMBER 440700185G MAP EFFECTIVE DATE: MARCH 2, 2008. FEDERAL EMERGENCY MANAGEMENT AGENCY.
  - ANY UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND REFERENCE STATIONS USING THE MTS RTK NETWORK VIA CARLSON BRX8 GNSS ANTENNAS / RECEIVERS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH EXISTING UTILITIES. THE SURVEYOR DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. PLEASE CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-DIG-SAFE AND/OR ALL LOCAL UTILITY COMPANIES.
  - THE HORIZONTAL DATUM FOR THIS PROJECT IS THE R.I.S.P.C.S. (NAD 83) AND THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 88. THE PROJECT DATUMS WERE ESTABLISHED FROM DATA TRANSMITTED FROM MTS REFERENCE STATIONS USING THE MTS RTK NETWORK VIA CARLSON BRX8 GNSS ANTENNAS / RECEIVERS.
  - THE BOUNDARY LINES SHOWN HEREON WERE REPRODUCED BY FIELD SURVEY AND THE MONUMENTS SHOWN ON PLAN REF. 1(A). A COMPLETE BOUNDARY SURVEY OF THE ENTIRE PROPERTY WAS NOT COMPLETED BY WATERMAN ENGINEERING COMPANY. DISTANCES SHOWN ARE ALONG THE FACE OF THE STONE WALLS AS DELINEATED ON PLAN REF. 1(A). WHERE NO STONEWALL EXISTS, A WIDTH OF 2 RODS (33') WAS HELD FOR THE "UNNAMED RIGHT OF WAY" AS SHOWN.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION #: 20-0292  
 DATED: MAR 29 2022  
 SEE LETTER OF SAME DATE  
*Nancy L. Freeman*

### RIDEM SUBMISSION

NO.	DATE	REVISION	CHECKED BY
4	02/11/2022	REVISED PER RIDEM 11/10/2021 COMMENTS	RSL
3	10/16/2020	ADDED ROAD ABANDONMENT	RSL
2	04/06/2020	ADDED ADDITIONAL TOPO	RSL

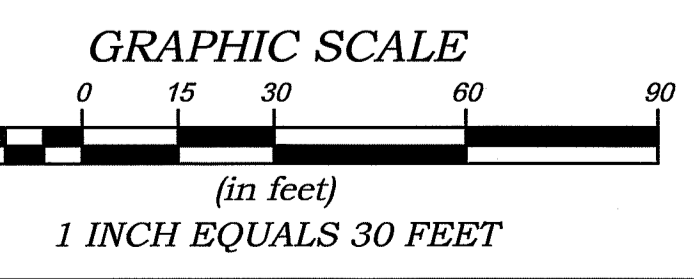
PROJECT NO: 17-100  
 SCALE: 1" = 30'  
 DATE: 11/30/17  
 DRAWN BY: RBEP/BJT  
 CHECKED BY: RSL  
 FILENAME: 17-100\_SUI\_REV1  
 1 of 18 SHTS  
 DRAWING #: SUI

**PARTIAL BOUNDARY & TOPOGRAPHIC SURVEY**  
 PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43  
 425 NATE WHIPPLE HWY  
 CUMBERLAND, RHODE ISLAND 02864

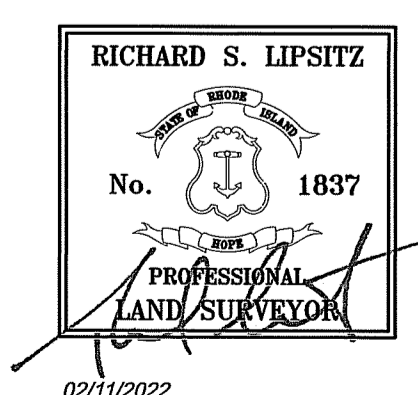
CUMBERLAND BEAGLE CLUB  
 P.O. BOX 7413  
 CUMBERLAND, RHODE ISLAND 02864

**Waterman ENGINEERING COMPANY**  
 Engineers & Surveyors - Est. 1894  
 46 Sutton Avenue  
 East Providence, RI  
 Phone: (401) 438-5775  
 Fax: (401) 438-5772  
 www.watermanengineering.com

- ### LEGEND & ABBREVIATIONS
- |         |                            |                          |
|---------|----------------------------|--------------------------|
| NF      | - NOW OR FORMERLY          | - PROPERTY LINE          |
| A.P.    | - ASSESSOR'S PLAT          | - ZONING SETBACK LINE    |
| S.F.    | - SQUARE FEET              | - EXISTING CONTOUR       |
| AC.     | - ACRES                    | - NEW CONTOUR            |
| ±       | - PLUS OR MINUS            | - STONE WALL             |
| STY     | - STORY                    | - FENCE                  |
| WF      | - WOOD FRAMED              | - SEWER LINE             |
| SHP     | - STATE HIGHWAY PLAT       | - DRAIN LINE             |
| RET.    | - RETAINING WALL           | - WATER LINE             |
| PED.    | - PEDESTRIAN               | - GAS LINE               |
| (FND.)  | - FOUND                    | - ELECTRIC LINE          |
| R/HB    | - RI HIGHWAY BOUND         | - SANITARY SEWER MANHOLE |
| PK NAIL | - MASONRY NAIL             | - CATCH BASIN            |
| FE      | - FLARED END               | - STORM DRAIN MANHOLE    |
| RCP     | - REINFORCED CONCRETE PIPE | - WATER GATE             |
| CLF     | - CHAIN LINK FENCE         | - GAS VALVE              |
| INV.    | - INVERT                   | - ELECTRIC MANHOLE       |
| x 10.80 | - EXISTING SPOT GRADE      | - GRANITE BOUND          |
| x 10.80 | - NEW SPOT GRADE           | - DRILL HOLE             |
|         |                            | - IRON PIPE              |



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\*\* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

### CERTIFICATION

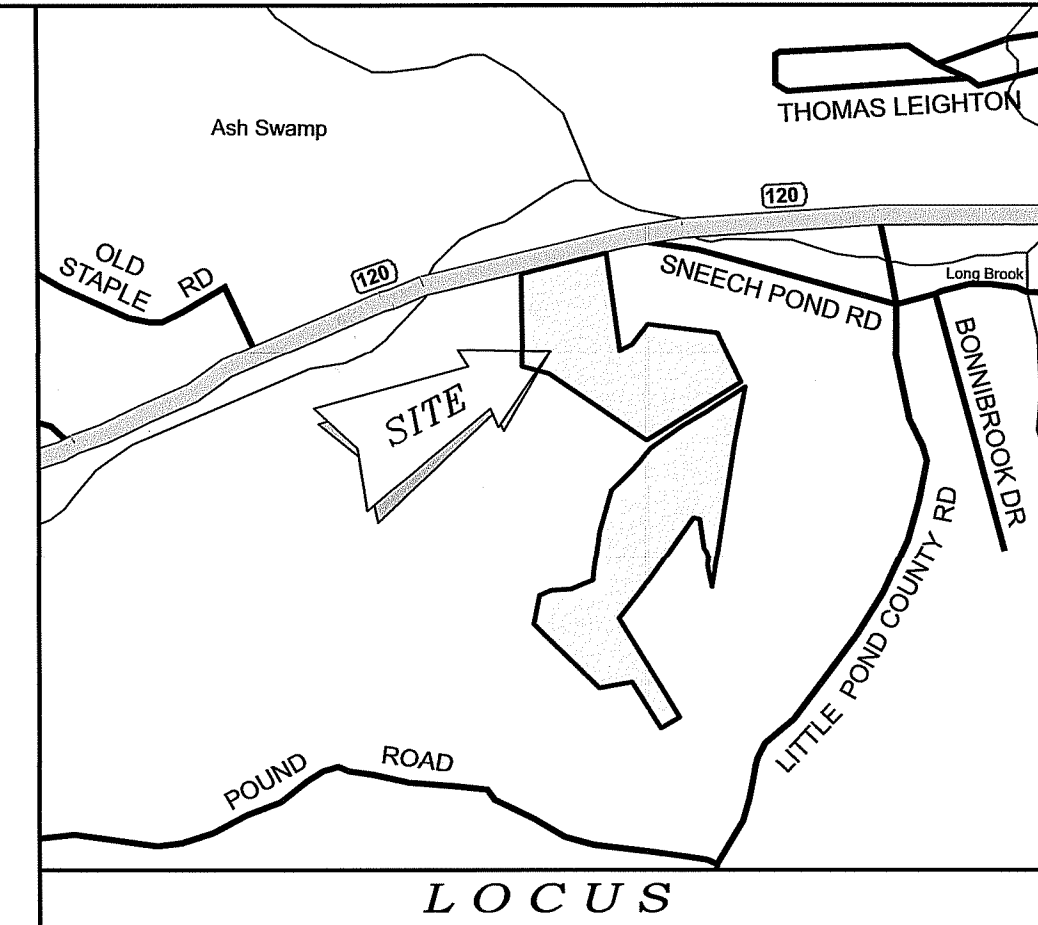
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 26, 2018, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: MEASUREMENT / ACCURACY SPECIFICATION:  
 LIMITED CONTENT BOUNDARY SURVEY I

OTHER TYPE OF SURVEY: III  
 DATA ACCUMULATION TOPOGRAPHIC SURVEY T-1 (PARTIAL TOPOGRAPHIC SURVEY SHOWN)

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY:

BY: *[Signature]* 1837 02/11/2022  
 RICHARD S. LIPSITZ, P.L.S. REG. NO. DATE  
 WATERMAN ENGINEERING COMPANY (COA No. LS.000483)



**NOTES / REFERENCES**

- REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD:
  - PLAN ENTITLED "SURVEY AND DIVISION OF LAND FOR THE ESTATE OF JOSEPHINE MATTA TO BE CONVEYED TO THE CUMBERLAND BEAGLE CLUB, INC. DESIGNATED AS ASSESSOR LOT 43 AND A PORTION OF LOT 9 OF PLAT 40, SCALE 1" = 100' PREPARED BY LOUIS FEDERICI & ASSOCIATES, REVISED JANUARY 14, 1984."
  - PLAN ENTITLED "ADMINISTRATIVE SUBDIVISION FOR EMERALD CROWN AP 40 LOTS 40 & 41 IN CUMBERLAND RHODE ISLAND, SCALE 1" = 384' DATE: FEBRUARY 22, 2009 PROJECT NO. 09165.00, PREPARED BY COMMONWEALTH ENGINEERS & CONSULTANTS, INC."
- REFERENCE IS MADE TO THE FOLLOWING TOWN OF CUMBERLAND LAND EVIDENCE RECORDS REGARDING RECORDED TITLE TO THE PREMISES SURVEYED:
  - A.P. 40, LOT 7 - CUMBERLAND BEAGLE CLUB - VOLUME 126, PAGE 443
  - A.P. 40, LOT 43 - CUMBERLAND BEAGLE CLUB - VOLUME 1805, PAGE 473
- THESE PREMISES MAY BE SUBJECT TO THE FOLLOWING EASEMENTS, RIGHTS OF WAY OR AGREEMENTS OF RECORD:
  - RIGHTS AND EASEMENT TO MARRAGANSETT ELECTRIC COMPANY FOR DISTRIBUTION OF ELECTRIC & TELEPHONE USE AS DESCRIBED IN VOLUME 1557, PAGE 411.
  - RIGHTS AND RIGHTS OF OTHERS MAY EXIST TO THE "OLD ROAD" AND THE "UNNAMED RIGHT OF WAY" AS SHOWN. THE "UNNAMED RIGHT OF WAY" APPEARS TO BE OWNED BY CUMBERLAND BEAGLE CLUB AS DESCRIBED IN VOLUME 126, PAGE 44. THE "OLD ROAD" WAS ABANDONED 2/22/2009 BY THE TOWN OF CUMBERLAND AS DESCRIBED IN THE TOWN COUNCIL MINUTES DATED 2/22/2009. UPON ABANDONMENT THE OWNERSHIP OF THE "OLD ROAD" REVERTED TO THE CUMBERLAND BEAGLE CLUB, BEING OWNERS OF THE LAND ON BOTH SIDES AS SHOWN.
- THESE PREMISES ARE SITUATED IN AN 'A-2 ZONE' (WITH WATER OR SEWER, BUT NOT BOTH)
 

**DIMENSIONAL REQUIREMENTS**

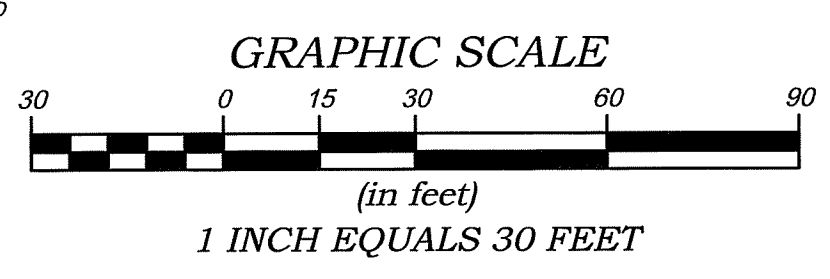
  - MIN. LOT WIDTH / FRONTAGE = 80,000 SQ. FT.
  - MIN. S/B FRONT YARD = 180 FT.
  - MIN. S/B REAR YARD = 75 FT.
  - MIN. S/B REAR YARD = 30 FT.
  - MIN. S/B SIDE YARD = 20 FT.
  - MIN. S/B SIDE YARD = 35 FT.
  - MAX. LOT COVERAGE = 15%

NOTE - ZONING INFORMATION IS FROM CURRENT ZONING AND MAY NOT REFLECT THE CONDITIONS AT THE TIME OF CONSTRUCTION OR ANY VARIANCES GRANTED.
- THESE PREMISES ARE SITUATED IN A ZONE 'X' (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DESIGNATED ON THE NATIONAL FLOOD INSURANCE PROGRAM FIRM FLOOD INSURANCE RATE MAP PROVIDENCE COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL 182 OF 401 TOWN OF CUMBERLAND MAP NUMBER 44007C0185G MAP EFFECTIVE DATE: MARCH 2, 2008 FEDERAL EMERGENCY MANAGEMENT AGENCY.
- ANY UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-DIG-SAFE AND/OR ALL LOCAL UTILITY COMPANIES.)
- THE HORIZONTAL DATUM FOR THIS PROJECT IS THE NAD 83 AND THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 83. THE PROJECT DATUMS WERE ESTABLISHED FROM DATA TRANSMITTED FROM MTS REFERENCE STATIONS USING THE MTS RTK NETWORK VIA CARLSON BRX6 GNSS ANTENNAS / RECEIVERS.
- THE BOUNDARY LINES SHOWN HEREON WERE REPRODUCED BY FIELD SURVEY AND THE MONUMENTS SHOWN ON PLAN REF. 1(A). A COMPLETE BOUNDARY SURVEY OF THE ENTIRE PROPERTY WAS NOT COMPLETED BY WATERMAN ENGINEERING COMPANY. DISTANCES SHOWN ARE ALONG THE FACE OF THE STONE WALLS AS DELINEATED ON PLAN REF. 1(A). WHERE NO STONEWALL EXISTS, A WIDTH OF 2 RODS (33') WAS HELD FOR THE "UNNAMED RIGHT OF WAY" AS SHOWN.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION #: 20-0292  
 DATED: MAR 29 2022  
 SEE LETTER OF SAME DATE  
*Nancy L. Freeman*

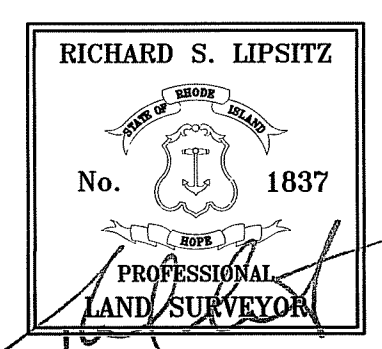
**LEGEND & ABBREVIATIONS**

N.F.	- NOW OR FORMERLY	---	- PROPERTY LINE
A.P.	- ASSESSORS PLAT	---	- ZONING SETBACK LINE
S.F.	- SQUARE FEET	- - -	- EXISTING CONTOUR
AC	- ACRES	---	- NEW CONTOUR
±	- PLUS OR MINUS	---	- STONE WALL
STY	- STORY	X	- FENCE
WF	- WOOD FRAMED	S	- SEWER LINE
SHP	- STATE HIGHWAY PLAT	D	- DRAIN LINE
RET	- RETAINING WALL	W	- WATER LINE
PE	- PEDESTRIAN	G	- GAS LINE
(FND.)	- FOUND	E	- ELECTRIC LINE
R/HB	- RI HIGHWAY BOUND	⊕	- SANITARY SEWER MANHOLE
PK NAIL	- MASONRY NAIL	⊕	- CATCH BASIN
FE	- FLARED END	⊕	- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE	⊕	- WATER GATE
CLF	- CHAIN LINK FENCE	⊕	- GAS VALVE
INV.	- INVERT	⊕	- ELECTRIC MANHOLE
x 10.80	- EXISTING SPOT GRADE	⊕	- GRANITE BOUND
⊕	- NEW SPOT GRADE	⊕	- DRILL HOLE
		⊕	- IRON PIPE



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 THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER/SURVEYOR AND HAVE BEEN PREPARED FOR THE OWNER, FOR THIS PROJECT AT THIS SITE AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE, LOCATION OR OWNER WITHOUT WRITTEN CONSENT OF THIS OWNER OR ONE OF ITS DIRECTORS.  
 WATERMAN ENGINEERING CO.  
 CIVIL ENGINEERS & SURVEYORS  
 46 SUTTON AVENUE  
 EAST PROVIDENCE, RI 02914-3096

**CERTIFICATION**  
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2016, AS FOLLOWS:  
 TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY  
 MEASUREMENT / ACCURACY SPECIFICATION: I  
 OTHER TYPE OF SURVEY: DATA ACCUMULATION TOPOGRAPHIC SURVEY III T-1 (PARTIAL TOPOGRAPHIC SURVEY SHOWN)  
 THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
 BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.



BY: *[Signature]* 1837 02/11/2022  
 RICHARD S. LIPSITZ, P.L.S. REG. NO. DATE  
 WATERMAN ENGINEERING COMPANY (COA No. LS.0004483)

**RIDEM SUBMISSION**

NO.	DATE	REVISION	CHECKED BY
4	02/11/2022	REVISED PER RIDEM 11/10/2021 COMMENTS	RSL
3	10/16/2020	ADDED ROAD ABANDONMENT	RSL
2	04/06/2020	ADDED ADDITIONAL TOPO	RSL

PROJECT NO. 17-100  
 SCALE: 1" = 30'  
 DATE: 11/30/17  
 DRAWN BY: EBP/BJT  
 CHECKED BY: RSL  
 FILENAME: 17-100\_RSL\_REV  
 2 of 15\_SHTS  
 DRAWING # SU2

EXISTING AERIAL MAP  
 PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43  
 425 NATE WHIPPLE HIGHWAY  
 CUMBERLAND, RHODE ISLAND 02864

**Waterman ENGINEERING COMPANY**  
 Engineers & Surveyors - Est. 1894  
 46 Sutton Avenue  
 East Providence, RI  
 Phone: (401) - 438-5775  
 Fax: (401) - 438-5773  
 www.watermanengineering.net

**GENERAL NOTES**

- SEE BOUNDARY & TOPOGRAPHIC SURVEY PLAN FOR SURVEY NOTES & REFERENCES.
- ALL EXISTING UTILITIES HAVE BEEN PLOTTED BASED UPON BOUNDARY & TOPOGRAPHIC SURVEY PLANS PREPARED BY WATERMAN ENGINEERING. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE & UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH "DIG SAFE PROGRAM LAW ENACTED BY THE R.I. LEGISLATURE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY CITY, STATE OR FEDERAL AGENCY THAT MAY APPLY ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SPECIFICATIONS TO GOVERN THIS PROJECT ARE R.I.D.O.T. STANDARD SPECIFICATIONS. FOR ALL EXCAVATION, PLACEMENT OF FILL, PIPE INSTALLATION, BITUMINOUS PAVEMENT, CUTTING INTO CATCH BASINS/MANHOLE, CONCRETE AND SAW CUTTING, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, WITH LATEST REVISIONS UNLESS OTHERWISE SHOWN ON PLANS. THE "METHOD OF MEASUREMENT" AND "BASIS OF PAYMENT" ARE NOT APPLICABLE. THESE SPECIFICATIONS CAN BE OBTAINED ON-LINE AT: [HTTP://WWW.DOT.STATE.RI.US/ENGINEERINGSTANDARDS/INDEX.ASP](http://www.dot.state RI.us/engineeringstandards/index.asp)
- FOR ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
- RHODE ISLAND STANDARDS REFERENCED ARE ACCORDING TO THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS "RHODE ISLAND STANDARD DETAILS" DATED JUNE 27, 2008, WITH ALL REVISIONS AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR MUST VERIFY PRIOR TO CONSTRUCTION THAT ALL REQUIRED AUTHORIZATION TO PERFORM WORK HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE, AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
- WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND MUST BE ACCEPTABLE TO THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT PRIOR TO THE INITIATION OF WORK. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS, RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.
- ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN.
- "APPROVED EQUAL" PRODUCTS MAY BE USED BY THE CONTRACTOR ONLY UPON APPROVAL BY THE DESIGN ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE SUBMITTALS TO THE DESIGN ENGINEER FOR REVIEW.
- THE PROPOSED WATER QUALITY VOLUME (WQV) DISCHARGES TO THE GROUNDWATER THE GROUNDWATER CLASSIFICATION IN THE AREA OF THE PROPOSED CLUBHOUSE AND BEST MANAGEMENT PRACTICE (BMP) No. 1 IS GAA.
- THE ULTIMATE WATERBODY THAT RECEIVES THE WATER QUALITY VOLUME (WQV) IS THE GROUNDWATER AND EAST SNEECH BROOK (WATERBODY ID: RW0009001). THE EAST SNEECH BROOK HAS A TOTAL MAXIMUM DAILY LOAD (TMDL) FOR ENTEROCOCCUS AND IS ON THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT'S (RIDEM) 303 (d) LIST OF IMPAIRED WATERS. THE EAST SNEECH BROOK IS A CONSIDERED WARMWATER FISHERY THAT IS ALSO IN THE RIDEM SPECIAL RESOURCE PROTECTION WATERS (SRPW) DUE CRITICAL HABITAT (RARE & ENDANGERED SPECIES) AND DRINKING WATER SUPPLY.
- THE PROJECT AREA IS NOT WITHIN THE 100-YEAR FLOODPLAIN AS DEFINED BY RIDEM.
- THE PROJECT AREA IS NOT IDENTIFIED AS LAND USES WITH HIGHER POTENTIAL POLLUTANT LOAD (LUPP/L).
- THE PROJECT AREA IS NOT IDENTIFIED AS A REDEVELOPMENT SITE.
- THERE ARE NO KNOWN EXISTING UNIQUE AND/OR HISTORICAL FEATURES WITHIN OR IMMEDIATELY ADJACENT TO THE SUBJECT PROPERTY.

**LAYOUT NOTES**

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEM FOUND WHICH DOES NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.

**TRAFFIC & RHODE ISLAND DEPARTMENT OF TRANSPORTATION NOTES**

- ALL WORK WITHIN THE STATE'S RIGHT OF WAY WILL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION'S R.I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED 2013, WITH ALL REVISIONS AND RHODE ISLAND STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2008, INCLUDING ALL REVISIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION, ALL TEMPORARY CONSTRUCTION SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS WILL NOT BE PARKED IN THE ROADWAY RIGHT-OF-WAY.
- SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE STATE D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

**UTILITY NOTES**

- PRIOR TO ANY UTILITY CONSTRUCTION, THE CONTRACTOR MUST PERFORM ADDITIONAL TEST TO:
  - CONFIRM THE EXISTING DEPTHS OF UTILITIES AT ALL PROPOSED CONNECTION POINTS AND POTENTIAL CROSSOVER (CONFLICT) POINTS.
  - THE CONTRACTOR SHALL DIG TEST HOLES TO VERIFY THE ELEVATIONS AND PIPE MATERIAL OF THE EXISTING WATER, GAS, AND SANITARY SERVICES AT THE PROPOSED TIE-IN LOCATION.
- ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATIONS WILL BE AUTHORIZED.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO TIE-IN.
- THIS UTILITY PLAN DOES NOT REPRESENT THE SITE ELECTRICAL/TELEPHONE/COMMUNICATION SYSTEM DESIGN.
- THE CONTRACTOR MUST LOCATE THE EXISTING WATER MAIN TO OBTAIN THE PROPER OUTSIDE DIAMETER TO SIZE ANY SLEEVE.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL UTILITY PIPE SIZES INCLUDING WATER, SEWER AND GAS ARE VERIFIED BY THE ARCHITECT PRIOR TO ORDERING PIPE OR RELATED MATERIAL.
- ALL PROPOSED PIPES AND CONDUITS SHALL BE INSTALLED TO MEET H-20 LOADING CAPACITY. ALL MATERIAL AND TRENCHING METHODS SHALL CONFORM TO H-20 LOADING CAPACITIES. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS/CATALOG CUTS FOR PROPOSED PIPE AND CONDUIT TO ENGINEER FOR APPROVAL.
- WITH RESPECT TO UTILITY CONNECTIONS WITHIN THE STATE'S ROAD, THE APPLICANT IS REMINDED THAT A R.I.D.O.T. PHYSICAL ALTERATION PERMIT APPLICATION IS NOT A SUBSTITUTE FOR A R.I.D.O.T. UTILITY PERMIT AND FURTHER THAT APPROVAL OF THE PHYSICAL ALTERATION PERMIT DOES NOT CONSTITUTE APPROVAL OF ANY UTILITY WORK, SHOWN OR UN-SHOWN, WITHIN THE STATE'S ROAD.

**SOIL EROSION & SEDIMENTATION CONTROL NOTES**

**DUST CONTROL NOTES**

ON AN AS-NEEDED BASIS OR AS DIRECTED BY RIDEM OR OWNER, THE CONTRACTOR SHALL UTILIZE THE FOLLOWING METHOD TO CONTROL DUST:  
 A. THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.  
 THE METHODS SHOULD BE REPEATED AS NEEDED, AND SPECIAL ATTENTION MUST BE GIVEN TO THE ACCESS DRIVES.

**INSPECTION/MAINTENANCE NOTES**

- PRIOR TO COMMENCING GRUBBING OPERATIONS AND EARTHWORK, FILTERSOX AND COMBINED HAYBALE/SILT FENCE SHALL BE PLACED IN LINE SAWCUT EDGE TO PREVENT SEDIMENT FROM ENTERING EXISTING ROADWAY DRAINAGE SYSTEM, WETLAND AREAS AND ADJUTING PROPERTIES.
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE DRAINAGE SYSTEM.
- ALL DISTURBED AREAS WHICH BECOME SUBJECT TO EROSION TENDENCIES WHETHER THEY BE NEWLY FILLED OR EXCAVATED SHALL RECEIVE SLOPE PROTECTION - SUCH AS RIP-RAP.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING PERIODS OF RAINFALL.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE DAILY DURING CONSTRUCTION, FOLLOWING RAINFALL AND WEEKLY DURING NON-CONSTRUCTION PERIODS.
- ADDITIONAL FILTER SOXX OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
- THE LATEST VERSION OF THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE R.I. STATE CONSERVATION COMMITTEE, MUST BE UTILIZED BY THE CONTRACTOR AS A GUIDE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL AND FOR THE ENTIRE PROJECT DURATION, INCLUDING TEMPORARY SHUT-DOWN PERIODS, MUST MONITOR AND REPAIR, AS NEEDED, ALL SLOPES TO ENSURE A STABLE PRODUCT.

**GENERAL PROJECT WIDE NOTES**

- CONTRACTOR SHALL INSTALL TEMPORARY MEASURES SUCH AS FIBER MATTING, CRUSHED STONE, HAY OR STRAW IN AREAS WHERE SLOPES OR STABILIZATION HAS FAILED.
- IF SEDIMENT IS TRACKED OR ERODED INTO THE ROADWAY, THE CONTRACTOR WILL BE REQUIRED TO INSTALL SILT SACK OR APPROVED EQUAL UNDER EXISTING CATCH BASIN GRATES. REMOVED AFTER CONSTRUCTION.
- FILTER SOXX (OR SILT FENCE OR STAKED HAYBALES) SHALL BE INSTALLED AROUND THE PERIMETER OF THE AREA TO BE DISTURBED BY CONSTRUCTION. ADDITIONAL APPLICATIONS OF THESE CONTROL MEASURES MAY BE REQUIRED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL INSPECT THE SITE AT A MINIMUM OF ONCE PER WEEK OR WITHIN 24 HOURS AFTER A STORM EVENT.
- IF EROSION OR EROSION TENDENCIES ARE APPARENT ON THE SITE, THE CONTRACTOR IS RESPONSIBLE TO INSTALL ADDITIONAL CONSTRUCTION BMP'S SUCH AS SAND BAGS AS RIDEM OR ENGINEER DURING CONSTRUCTION.
- IF SEDIMENT OR DEBRIS IS TRACKED ONTO EXISTING PAVED AREAS ADJACENT TO THE CONSTRUCTION AREA, THE CONTRACTOR IS REQUIRED TO SWEEP THE PAVEMENT ON A DAILY BASIS. THE AREA SHALL BE INSPECTED DAILY.
- THE CONTRACTOR IS RESPONSIBLE TO KEEP THE SITE CLEAN OF TRASH. RECOMMENDED DAILY PATROL OF THE CONSTRUCTION SITE SHOULD BE CONDUCTED TO PICK-UP TRASH. THE OPERATOR SHALL REQUIRE THE CONTRACTOR TO HAVE PORTABLE SANITARY FACILITIES ON SITE. ROUTING CLEANING AND WASTE DISPOSAL OF THESE FACILITIES IS REQUIRED.
- INFILTRATION PRACTICES SHALL NEVER SERVE AS A SEDIMENT CONTROL DEVICE DURING SITE CONSTRUCTION PHASE. GREAT CARE MUST BE TAKEN TO PREVENT THE INFILTRATION AREA FROM COMPACTION BY MARKING OFF THE LOCATION BEFORE THE START OF CONSTRUCTION AT THE SITE AND CONSTRUCTING THE INFILTRATION PRACTICE LAST, CONNECTING UPSTREAM DRAINAGE AREAS ONLY AFTER CONSTRUCTION IS COMPLETE, AND THE CONTRIBUTING AREA IS STABILIZED.

**FILTREXX SOXX NOTE**

CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE FILTREXX PRODUCTS AND COORDINATE INSTALLATION SCHEDULES AND METHODS WITH THE ENGINEER PRIOR TO PLACEMENT.

**EROSION CONTROL AND SOIL STABILIZATION PROGRAM NOTES**

NOTE:

UPON COMPLETION AND ACCEPTANCE OF SITE PREPARATION AND INITIAL INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, THE OPERATOR SHALL INITIATE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION PRACTICES DURING ALL PHASES OF CONSTRUCTION ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.  
 ANY DISTURBED AREAS THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN 14 DAYS MUST BE STABILIZED USING THE CONTROL MEASURES DEPICTED IN THE SESS: SITE PLANS, IN ACCORDANCE WITH THE **RI SOIL EROSION CONTROL HANDBOOK (LATEST EDITION)**, AND PER MANUFACTURER PRODUCT SPECIFICATIONS.

ONLY AREAS THAT CAN BE REASONABLY EXPECTED TO HAVE ACTIVE CONSTRUCTION WORK BEING PERFORMED WITHIN 14 DAYS OF DISTURBANCE WILL BE CLEARED/GRUBBED AT ANY ONE TIME. IT IS NOT ACCEPTABLE TO CLEAR AND GRUB THE ENTIRE CONSTRUCTION SITE IF PORTIONS WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME FRAME. PROPER PHASING OF CLEARING AND GRUBBING ACTIVITIES SHALL INCLUDE TEMPORARY STABILIZATION TECHNIQUES FOR AREAS CLEARED AND GRUBBED THAT WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME FRAME.

ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED BY THAT DATE IF VEGETATIVE MEASURES ARE THE INTENDED SOIL STABILIZATION METHOD. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE SITE OPERATOR OR DESIGNATED INSPECTOR, BY NOVEMBER 15, MUST BE STABILIZED THROUGH THE USE OF NON-VEGETATIVE EROSION CONTROL MEASURES. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. IN LIMITED CIRCUMSTANCES, STABILIZATION MAY NOT BE REQUIRED IF THE INTENDED FUNCTION OF A SPECIFIC AREA OF THE SITE NECESSITATES THAT IT REMAIN DISTURBED (I.E. CONSTRUCTION OF A MOTORCROSS TRACK).

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT UNSUITABLE MATERIAL FROM ENTERING THE DRAINAGE SYSTEM, WETLAND AREAS, ADJACENT PROPERTY AND ROADWAYS.
- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH PROTECTIVE COVERS, SUCH AS A MAT OR FIBER LINER (BURLAP, JUTE, FIBERGLASS NETTING, EXCEL SIOR BLANKETS), THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE OWNER.
- HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 3,000 - 4,000 LBS./ACRES.
- STOCKPILES SHALL HAVE SLOPES NO STEEPER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED HAY BALES OR SILT FENCING.
- STOCKPILES EXPOSED FOR EXCESSIVE PERIODS SHALL RECEIVE TEMPORARY TREATMENT CONSISTING OF HAY, STRAW OR FIBER MATTING.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE DAILY DURING CONSTRUCTION, FOLLOWING RAINFALL AND WEEKLY DURING NON-CONSTRUCTION PERIODS.
- ADDITIONAL FILTER SOXX OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER, OWNER, MUNICIPAL REPRESENTATIVES OR LOCAL D.O.T.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DUST CONTROL AT NO ADDITIONAL COST TO THE OWNER.
- THE FILTREXX FILTER SOXX MAY BE INSTALLED ON EXISTING PAVEMENT/IMPERVIOUS AREAS WITHOUT STAKES. CONTRACTOR SHALL INSPECT DAILY IF SOIL EROSION OR SEDIMENTATION IS OBSERVED IN THESE AREAS. THE CONTRACTOR SHALL RELOCATE OR INSTALL ADDITIONAL FILTER SOXX IN LOCATIONS THAT CAN BE STAKED. THIS WORK IS INCLUDED IN THE PROJECT SCOPE.
- SILT FENCE OR STAKED HAYBALES AY BE USED IN LIEU OF FILTREXX FILTER SOXX.
- AN ALTERNATE COMPOST SOCK OR STRAW WATTLE PRODUCT MAY BE USED IN LIEU OF FILTREXX FILTER SOXX UPON APPROVAL FROM THE ENGINEER.

**VEHICLE FUELING/MAINTENANCE**

1. DUE TO THE CUMBERLAND BEAGLE CLUB'S COMMITMENT TO PRESERVING NATURE, ALL VEHICLE FUELING AND MAINTENANCE IS TO TAKE PLACE OFF-SITE. DRIP PANS AND SPILL KITS MUST BE KEPT ON SITE IN THE EVENT OF A VEHICLE LEAK. AT A MINIMUM, THE FOLLOWING MUST BE FOLLOWED:

VEHICLE FUELING SHALL NOT TAKE PLACE WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS, OR WITHIN 50-FEET OF THE STORM DRAIN SYSTEM. DESIGNATED AREAS SHALL BE DEPICTED ON THE SESS: SITE PLANS, OR SHALL BE APPROVED BY THE SITE OWNER.

VEHICLE MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE, OR IN DESIGNATED AREAS DEPICTED ON THE SESS: SITE PLANS OR APPROVED OF BY THE SITE OWNER. MAINTENANCE OR WASHING AREAS SHALL NOT BE WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS, OR WITHIN 50-FEET OF THE STORM DRAIN SYSTEM. MAINTENANCE AREAS SHALL BE CLEARLY DESIGNATED, AND BARRIERS SHALL BE USED AROUND THE PERIMETER OF THE MAINTENANCE AREA TO PREVENT STORMWATER CONTAMINATION.

CONSTRUCTION VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS. REPAIRS SHALL TAKE PLACE IMMEDIATELY. DISPOSAL OF ALL USED OIL, ANTIFREEZE, SOLVENTS AND OTHER AUTOMOTIVE-RELATED CHEMICALS SHALL BE ACCORDING TO APPLICABLE REGULATIONS. AT NO TIME SHALL MATERIAL BE WASHED DOWN THE STORM DRAIN OR IN TO ANY ENVIRONMENTALLY SENSITIVE AREA.

WORKERS SHOULD BE TRAINED IN THE EVENT OF A VEHICLE SPILL. EQUIPMENT AND MATERIALS FOR CLEANUP MUST BE READILY ACCESSIBLE AND MARKED OUT CLEARLY SO WORKERS CAN FOLLOW PROCEDURES QUICKLY AND EFFECTIVELY.

**CONSTRUCTION NOTES**

- THE CUMBERLAND BEAGLE CLUB IS A SECURE HUNTING, FISHING AND SHOOTING SPORT CLUB. REQUIRING A PASSWORD CODE FOR SAFETY REASONS & TO GAIN ACCESS TO THE CLUB. THE CONTRACTOR SHALL COORDINATE WITH THE CUMBERLAND BEAGLE CLUB IN ORDER TO GAIN SAFE ACCESS IN AND OUT OF THE CLUB.
- THE CONTRACTOR IS REQUIRED TO OBTAIN AND REVIEW ALL ENGINEERING AND PERMIT DOCUMENTS COMPLETED FOR FINAL DESIGN. PLEASE REVIEW THE LATEST SOIL EROSION & SEDIMENT CONTROL PLAN PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLATION OF UTILITIES ON SITE. THE COORDINATION IS NECESSARY FOR THE ENGINEER TO SCHEDULE SITE INSPECTIONS. ALL UTILITIES SHALL BE PERFORMED WITHOUT INSPECTIONS BY THE ENGINEER MAY WARRENT COMPLETE REMOVAL AND REINSTALLATION AT THE CONTRACTOR'S SOLE EXPENSE.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN DETAILED AS-BUILT INFORMATION FOR ALL UTILITY INSTALLATIONS. AS-BUILT INFORMATION MUST INCLUDE MATERIAL LIST, PIPE DEPTH AND SWING THE LOCATIONS (2 MINIMUM) FROM NEW PIPE TO BUILDING CORNERS. ALL PIPE BENEATH LOW LOCATIONS SHALL BE DIMENSIONED. FINAL PAYMENT WILL NOT BE MADE UNTIL SUITABLE AS-BUILT DATA IS PROVIDED.
- A WASTE COLLECTION AREA SHALL BE DESIGNATED ON THE SITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY TO A WATERBODY OR STORM DRAIN. ALL WASTE CONTAINERS SHALL BE COVERED TO AVOID CONTACT WITH WIND AND PRECIPITATION. WASTE COLLECTION SHALL BE SCHEDULED FREQUENTLY ENOUGH TO PREVENT CONTAINERS FROM OVERFILLING. ALL CONSTRUCTION SITE WASTES SHALL BE COLLECTED, REMOVED, AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND ONLY AT AUTHORIZED DISPOSAL SITES. EQUIPMENT AND CONTAINERS SHALL BE CHECKED FOR LEAKS, CORROSION, SUPPORT OR FOUNDATION FAILURE, OR OTHER SIGNS OF DETERIORATION. THOSE THAT ARE FOUND TO BE DEFECTIVE SHALL BE IMMEDIATELY REPAIRED OR REPLACED.

**SOIL NOTES**

SOILS IDENTIFIED WITHIN THE PROPOSED PROJECT SITE AREA ACCORDING TO THE USDA NATURAL RESOURCES CONSERVATION SERVICE ARE AS FOLLOWS:  
 CANTON AND CHARLTON (C&C) - FINE SANDY LOAMS, 3 TO 15 PERCENT SLOPES, VERY ROCKY. THE SOILS ARE ALSO IN HYDROLOGIC GROUP B.

**SOIL EVALUATION SUMMARY**

BELOW IS A SUMMARY OF THE SOIL EVALUATION RESULTS WITNESSED BY KEVIN FETZER (A-0029) ON MAY 12, 2020.

TEST HOLE (TH) NUMBER	DEPTH TO GW SEEPAGE	ESHWT	DEPTH TO LIMITING LAYER	C HORIZON TEXTURE	SOIL CLASS
1	-	N/A	36"	SAND	AEOLIAN OVER FIRM ABLATION FILL
2	-	30"	N/A	SAND	AEOLIAN OVER FIRM ABLATION FILL
3	-	24"	96"	SAND	AEOLIAN OVER FIRM ABLATION FILL
4	-	34"	36"	SAND	AEOLIAN OVER FIRM ABLATION FILL

**FLOOD ZONE NOTES**

THESE PREMISES ARE SITUATED IN A ZONE 'X' (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DESIGNATED ON THE "NATIONAL FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP PROVIDENCE COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL 185 OF 451 TOWN OF CUMBERLAND MAP NUMBER 4403010585 MAP EFFECTIVE DATE: MARCH 2, 2008, FEDERAL EMERGENCY MANAGEMENT AGENCY".

**PERMITTING NOTES**

- THERE ARE WETLANDS WITHIN 200' OF THE SITE. A RIDEM WETLAND PERMIT IS REQUIRED.
- THE PROPOSED IMPROVEMENTS WILL RESULT IN MORE THAN 1 ACRE OF SOIL DISTURBANCE & AN INFILTRATION SYSTEM IS PROPOSED. A RIDEM RIPCES PERMIT & STORMWATER PERMIT ARE REQUIRED.
- NATE WHIPPLE HIGHWAY IS A RIDOT ROADWAY. A RIDOT PAF MAY BE REQUIRED.

**CONSTRUCTION PHASING**

**PHASE 1 - BEFORE EARTHWORK**

- INSTALL SOIL EROSION & SEDIMENTATION CONTROL MEASURES
- INSTALL PERIMETER SILT FENCE OR WADDLE, CONSTRUCTION ENTRANCE & TEMPORARY CONSTRUCTION FENCE

**PHASE 2 - DURING EARTHWORK**

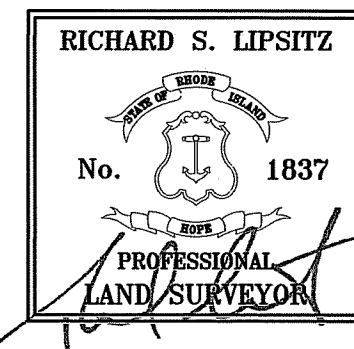
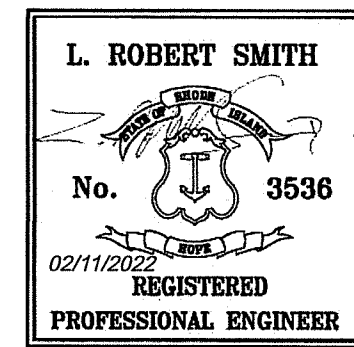
- ROUGH GRADING (LESS THAN AN ACRE OF DISTURBANCE AT A TIME)
- CONSTRUCT BUILDING
- INSTALL UNDERGROUND UTILITIES, APPROVED OWTS SYSTEM AND STORMWATER BMP
- INSPECT & MAINTAIN EROSION CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD

**PHASE 3 - FINAL STABILIZATION**

- COMPLETION, FINAL SITE INSPECTION AND GOOD HOUSEKEEPING CHECK
- PROVIDE REQUIRED MAINTENANCE AND STABILIZATION TO SYSTEM AND LANDSCAPING
- REMOVE EROSION CONTROLS AFTER VEGETATION IS ESTABLISHED AND THE SITE IS STABILIZED

**LEGEND & ABBREVIATIONS**

N/F	- NOW OR FORMERLY	---	- PROPERTY LINE
A.P.	- ASSESSORS PLAT	---	- ZONING SETBACK LINE
S.F.	- SQUARE FEET	---	- EXISTING CONTOUR
AC.	- ACRES	---	- NEW CONTOUR
±	- PLUS OR MINUS	---	- STONE WALL
STY	- STORY	X	- FENCE
W/F	- WOOD FRAMED	S	- SEWER LINE
SHIP	- STATE HIGHWAY PLAT	D	- DRAIN LINE
RET.	- RETAINING WALL	W	- WATER LINE
PE.D.	- PEDESTRIAN	G	- GAS LINE
(FND.)	- FOUND	E	- ELECTRIC LINE
R/HB	- RI HIGHWAY BOUND	Ⓢ	- SANITARY SEWER MANHOLE
PK MAIL	- MASONRY MAIL	Ⓜ	- CATCH BASIN
FP	- FLARED END	Ⓜ	- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE	Ⓜ	- WATER GATE
CLF	- CHAIN LINK FENCE	Ⓜ	- GAS VALVE
INV.	- INVERT	Ⓜ	- ELECTRIC MANHOLE
x 10.80	- EXISTING SPOT GRADE	Ⓜ	- GRANITE BOUND
x 10.80	- NEW SPOT GRADE	Ⓜ	- DRILL HOLE
		Ⓜ	- IRON PIPE



\*SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

RI Environmental Management  
 MAR 01 2022  
 Office of Water Resources

**RIDEM SUBMISSION**

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION #: 20-0292  
 DATED: MAR 29 2022  
 SEE LETTER OF SAME DATE  
*Nancy L. Freeman*

NO.	DATE	REVISION	CHECKED BY
1	02/11/2022	REVISED PER RIDEM 11/02/2021 COMMENTS	RSL

PROJECT NO: 17-100  
 SCALE: AS NOTED  
 DATE: 11/30/17  
 DRAWN BY: MS  
 CHECKED BY: RSL/LRS  
 FILENAME: 17100\_202108a.mxd  
3 of 15 SHTS  
 DRAWING # C-1

**GENERAL NOTES & LEGEND**  
 PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43  
 425 NATE WHIPPLE HIGHWAY  
 CUMBERLAND, RHODE ISLAND 02864

**CUMBERLAND BEAGLE CLUB**  
 P.O. BOX 7413  
 CUMBERLAND, RHODE ISLAND 02864

**Waterman**  
 ENGINEERING COMPANY  
 Engineers & Surveyors - Est. 1894  
 46 Sutton Avenue  
 East Providence, RI  
 Phone: (401) - 438 - 5775  
 Fax: (401) - 438 - 5773  
 www.watermanengineering.net

A.P. 40, LOTS 7 & 43



**MAP FOR REFERENCE ONLY  
NOT A LEGAL DOCUMENT**

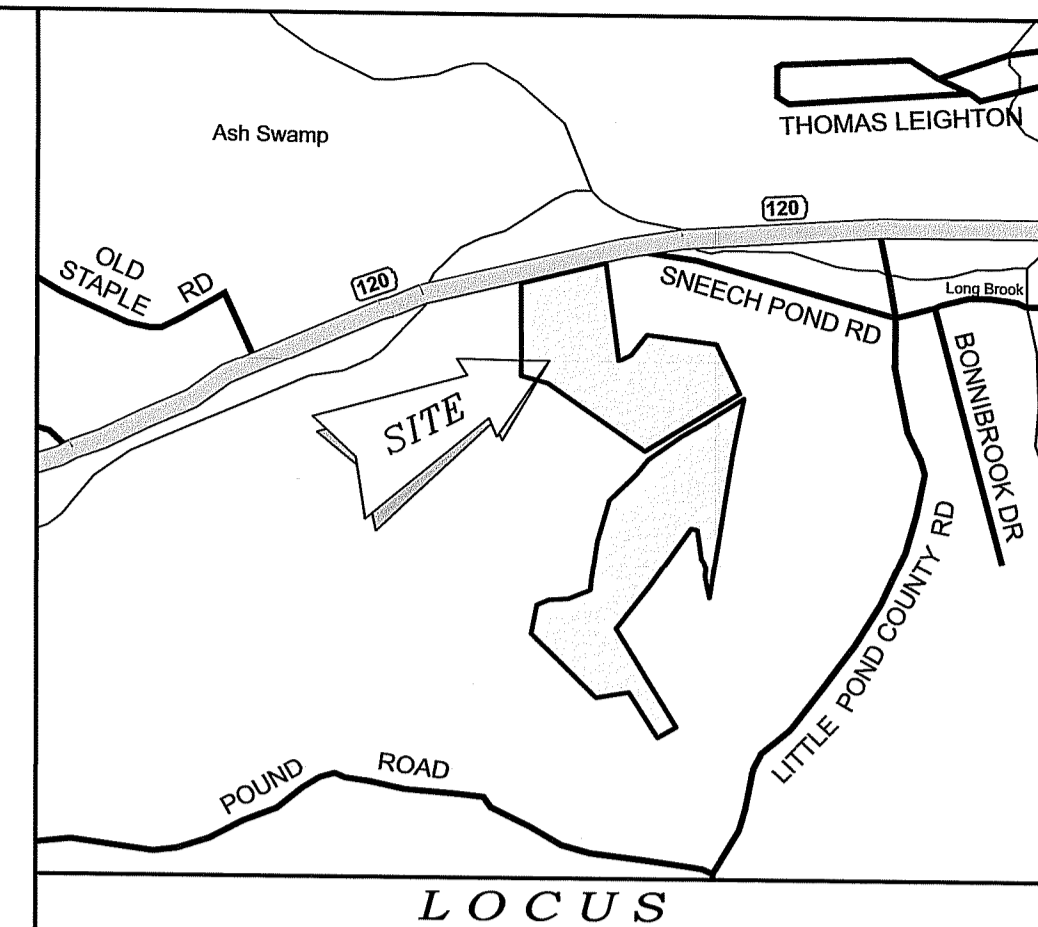
Town of Cumberland, RI makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated May 13, 2020  
Data updated On a nightly basis

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
REVIEWED SITE PLAN APPLICATION #: 20-0292  
DATED: MAR 23 2022  
SEE LETTER OF SAME DATE  
*Nancy L. Freeman*

1" = 718 ft



**NOTES / REFERENCES**  
 1. SEE SHEET 1 FOR EXISTING NOTES & REFERENCES.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION #: 20-0292  
 DATED: MAR 29 2022  
 SEE LETTER OF SAME DATE  
*Nancy L. Freeman*

**LEGEND & ABBREVIATIONS**

NF	- NOW OR FORMERLY	---	- PROPERTY LINE
A.P.	- ASSESSORS PLAT	---	- ZONING SETBACK LINE
S.F.	- SQUARE FEET	---	- EXISTING CONTOUR
AC.	- ACRES	---	- NEW CONTOUR
±	- PLUS OR MINUS	---	- STONE WALL
STY	- STORY	---	- FENCE
WF	- WOOD FRAMED	---	- SEWER LINE
SHP	- STATE HIGHWAY PLAT	---	- DRAIN LINE
RET.	- RETAINING WALL	---	- WATER LINE
PED.	- PEDESTRIAN	---	- GAS LINE
(FND.)	- FOUND	---	- ELECTRIC LINE
RHD	- RI HIGHWAY BOUND	---	- SANITARY SEWER MANHOLE
PK NAIL	- MASONRY NAIL	---	- CATCH BASIN
FE	- FLARED END	---	- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE	---	- WATER GATE
CLF	- CHAIN LINK FENCE	---	- GAS VALVE
INV.	- INVERT	---	- ELECTRIC MANHOLE
x 10.80	- EXISTING SPOT GRADE	---	- GRANITE BOUND
x 10.25	- NEW SPOT GRADE	---	- DRILL HOLE
		---	- IRON PIPE

**GRAPHIC SCALE**  
 30 0 15 30 60 90  
 (in feet)  
 1 INCH EQUALS 30 FEET

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 WATERMAN ENGINEERING CO.  
 CIVIL ENGINEERS & SURVEYORS  
 46 SUTTON AVENUE  
 EAST PROVIDENCE, RI 02914-2006

**L. ROBERT SMITH**  
 No. 3536  
 REGISTERED PROFESSIONAL ENGINEER  
 02/11/2022

**RICHARD S. LIPSITZ**  
 No. 1837  
 REGISTERED LAND SURVEYOR  
 02/11/2022

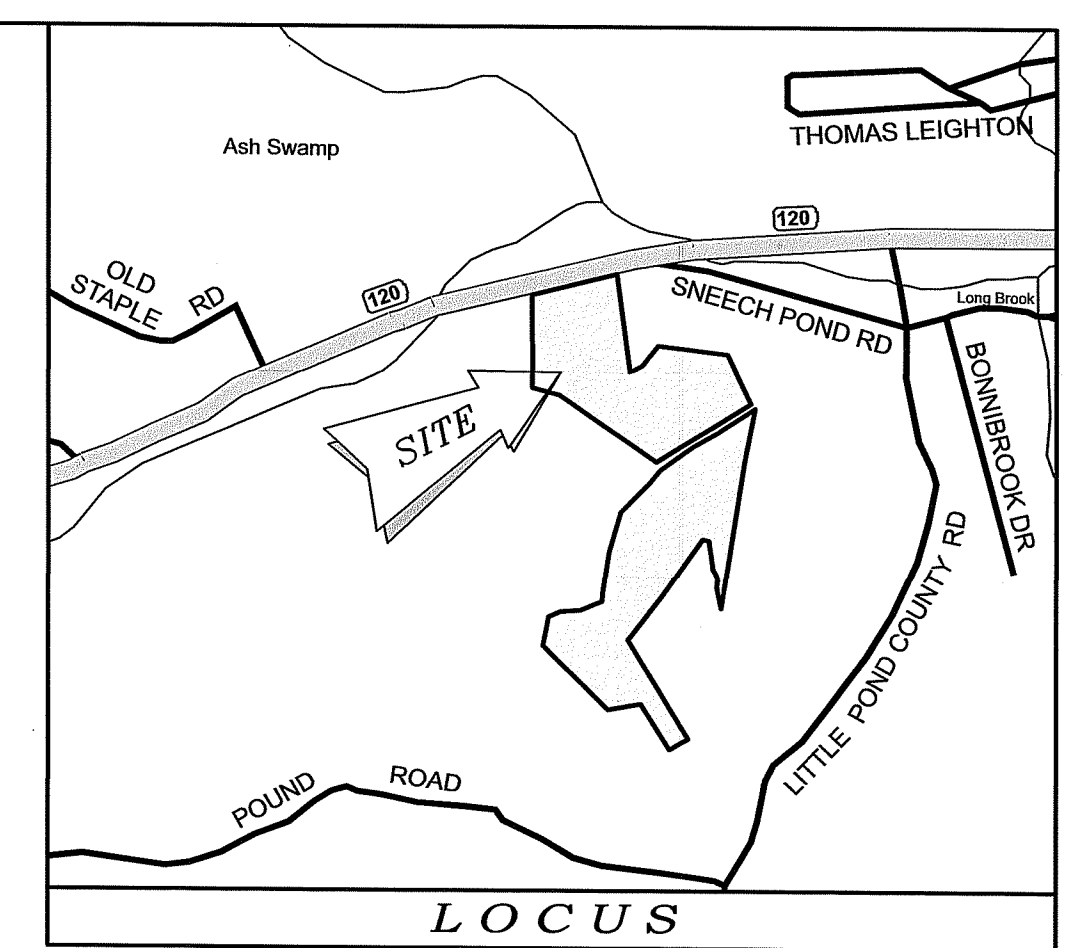
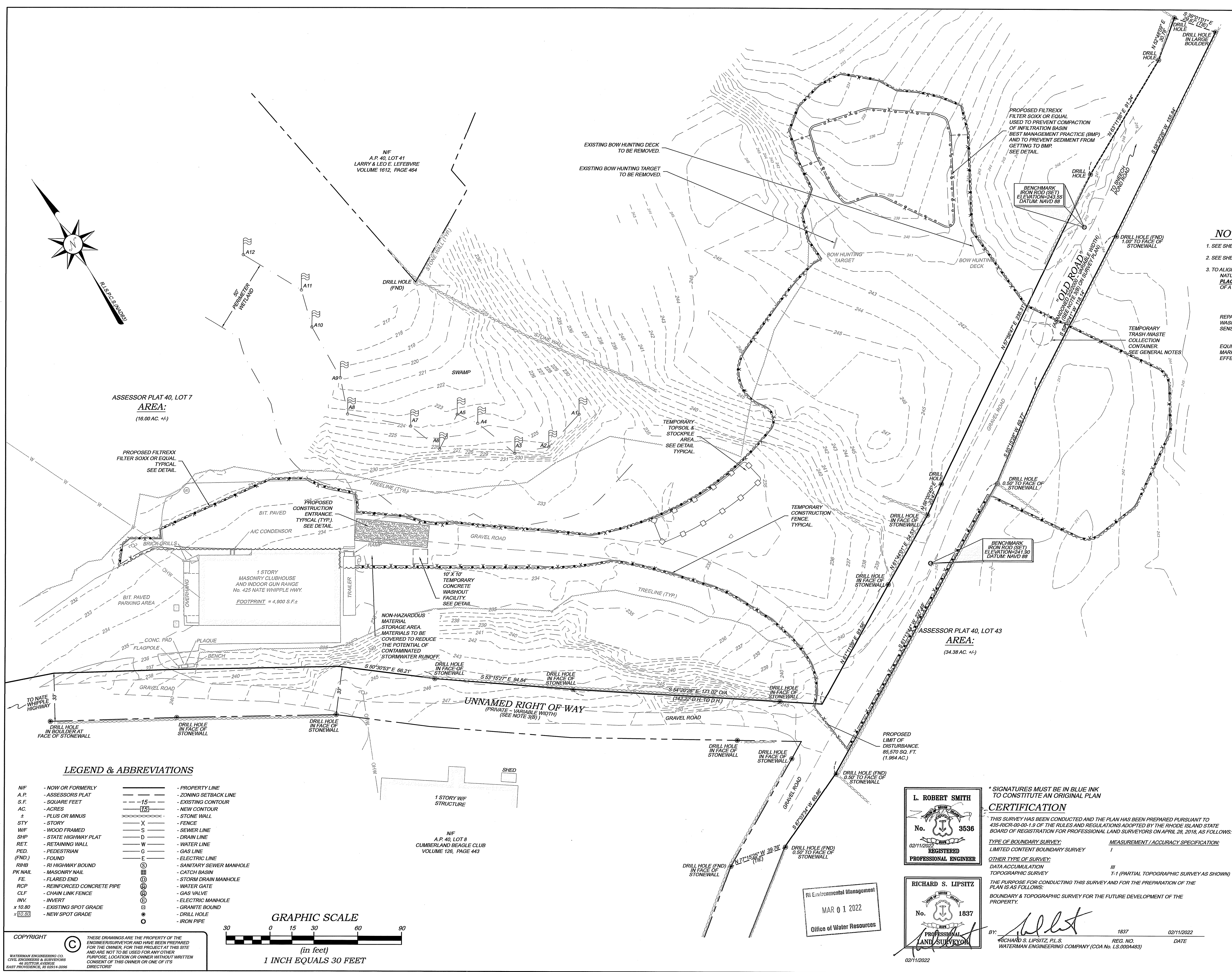
**CERTIFICATION**  
 \* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN  
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2018, AS FOLLOWS:  
 TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY  
 MEASUREMENT / ACCURACY SPECIFICATION: I  
 OTHER TYPE OF SURVEY: DATA ACCUMULATION TOPOGRAPHIC SURVEY  
 III T-1 (PARTIAL TOPOGRAPHIC SURVEY AS SHOWN)  
 THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
 BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.  
 BY: *[Signature]* 1837 02/11/2022  
 RICHARD S. LIPSITZ, P.L.S. REG. NO. DATE  
 WATERMAN ENGINEERING COMPANY (COA No. LS.0004483)

**RIDEM SUBMISSION**

NO.	DATE	REVISION	COMMENTS	CHECKED BY
1	02/11/2022		REVISED PER RIDEM 11/10/2021 COMMENTS	RSL
PROPOSED AERIAL MAP PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43 425 NATE WHIPPLE HIGHWAY CUMBERLAND, RHODE ISLAND 02864				PROJECT NO.: 17-100 SCALE: 1" = 30' DATE: 11/30/17 DRAWN BY: ESDP/BJT/MS CHECKED BY: RSL/LRS
CUMBERLAND BEAGLE CLUB P.O. BOX 7413 CUMBERLAND, RHODE ISLAND 02864				FILENAME: 17100_2021SBL_rev3 5 of 15_SHTS DRAWING #: C-3

**Waterman ENGINEERING COMPANY**  
 Engineers & Surveyors - Est. 1894  
 46 Sutton Avenue  
 East Providence, RI  
 Phone: (401) - 438 - 5775  
 Fax: (401) - 438 - 5773  
 www.watermanengineering.com  
 RI Environmental Management

MAR 01 2022  
 Office of Water Resources



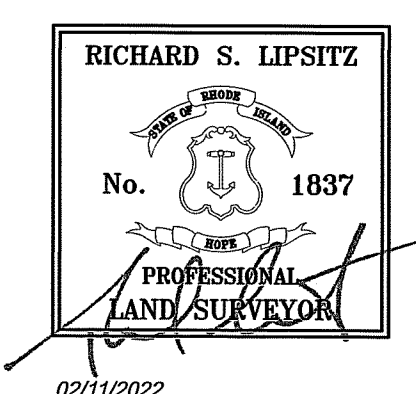
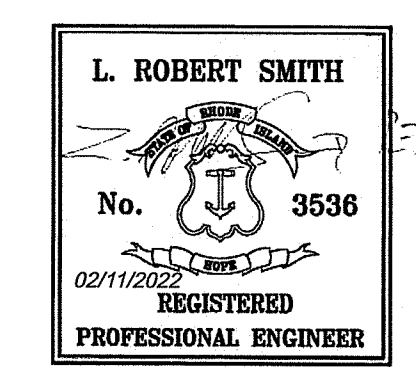
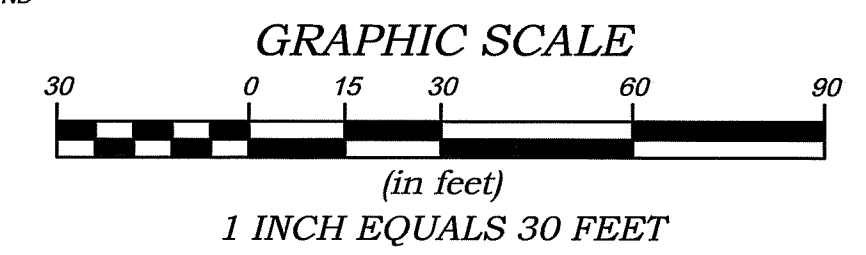
**NOTES / REFERENCES**

- SEE SHEET 1 FOR EXISTING NOTES & REFERENCES.
- SEE SHEET 3 GENERAL NOTES & LEGEND FOR ADDITIONAL NOTES.
- TO ALIGN WITH THE CUMBERLAND BEAGLE CLUB'S COMMITMENT TO PRESERVING NATURE, ALL VEHICLE & EQUIPMENT FUELING & MAINTENANCE IS TO TAKE PLACE OFF-SITE. DRIP PANS AND SPILL KITS MUST BE KEPT ON-SITE IN THE EVENT OF A VEHICLE LEAK. AT A MINIMUM, THE FOLLOWING MUST BE FOLLOWED:  
 VEHICLE & EQUIPMENT MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE.  
 CONSTRUCTION VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS. REPAIRS SHALL BE DONE OFF-SITE TO PREVENT ANY MATERIAL FROM BEING WASHED INTO A STORM DRAIN SYSTEM OR INTO ANY ENVIRONMENTALLY SENSITIVE AREAS.  
 WORKERS SHOULD BE TRAINED IN THE EVENT OF A VEHICLE SPILL. EQUIPMENT AND MATERIALS FOR CLEANUP MUST BE READILY ACCESSIBLE AND MARKED OUT CLEARLY SO WORKERS CAN FOLLOW PROCEDURES QUICKLY AND EFFECTIVELY.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION #: 20-0292  
 DATED: MAR 29 2022  
 SEE LETTER OF SAME DATE  
*Nancy L. Freeman*

**LEGEND & ABBREVIATIONS**

- |         |                            |          |                          |
|---------|----------------------------|----------|--------------------------|
| NF      | - NOW OR FORMERLY          | ---      | - PROPERTY LINE          |
| A.P.    | - ASSESSORS PLAT           | - - - 15 | - ZONING SETBACK LINE    |
| S.F.    | - SQUARE FEET              | - - -    | - EXISTING CONTOUR       |
| AC.     | - ACRES                    | ---      | - NEW CONTOUR            |
| ±       | - PLUS OR MINUS            | ---      | - STONE WALL             |
| STY     | - STORY                    | X        | - FENCE                  |
| WF      | - WOOD FRAMED              | S        | - SEWER LINE             |
| SHP     | - STATE HIGHWAY PLAT       | D        | - DRAIN LINE             |
| RET.    | - RETAINING WALL           | W        | - WATER LINE             |
| PED.    | - PEDESTRIAN               | G        | - GAS LINE               |
| (FND.)  | - FOUND                    | E        | - ELECTRIC LINE          |
| RHB     | - RI HIGHWAY BOUND         | ⊕        | - SANITARY SEWER MANHOLE |
| PK NAIL | - MASONRY NAIL             | ⊕        | - CATCH BASIN            |
| FE      | - FLARED END               | ⊕        | - STORM DRAIN MANHOLE    |
| RCP     | - REINFORCED CONCRETE PIPE | ⊕        | - WATER GATE             |
| CLF     | - CHAIN LINK FENCE         | ⊕        | - GAS VALVE              |
| INV.    | - INVERT                   | ⊕        | - ELECTRIC MANHOLE       |
| x 10.80 | - EXISTING SPOT GRADE      | ⊕        | - GRANITE BOUND          |
| x 10.80 | - NEW SPOT GRADE           | ⊕        | - DRILL HOLE             |
|         |                            | ⊕        | - IRON PIPE              |



**CERTIFICATION**

\* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 26, 2018, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY  
 MEASUREMENT / ACCURACY SPECIFICATION: I  
 OTHER TYPE OF SURVEY: DATA ACCUMULATION TOPOGRAPHIC SURVEY  
 III T-1 (PARTIAL TOPOGRAPHIC SURVEY AS SHOWN)

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.

BY: *Richard S. Lipsitz* 1837 02/11/2022  
 RICHARD S. LIPSITZ, P.L.S. REG. NO. DATE  
 WATERMAN ENGINEERING COMPANY (COA No. LS.000483)

**RIDEM SUBMISSION**

NO.	DATE	REVISION	CHECKED BY
1	02/11/2022	REVISED PER RIDEM 11/10/2021 COMMENTS	RSL

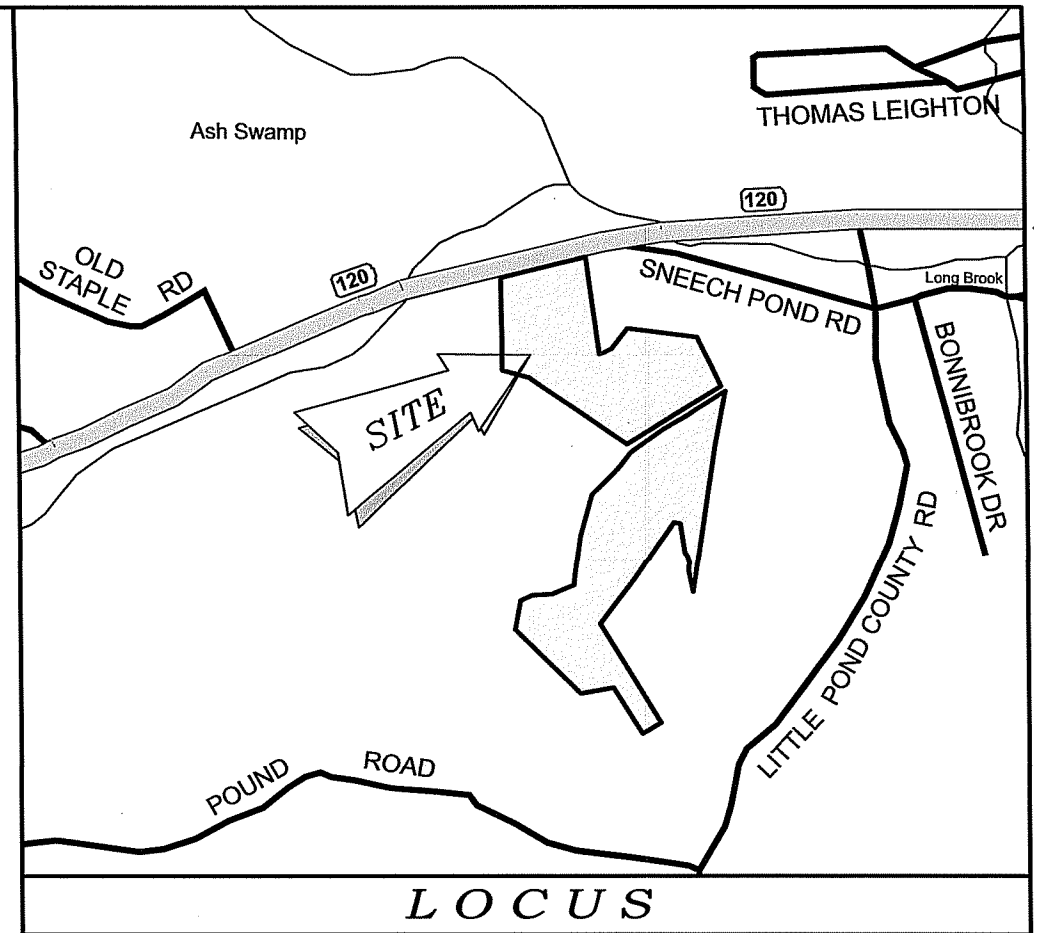
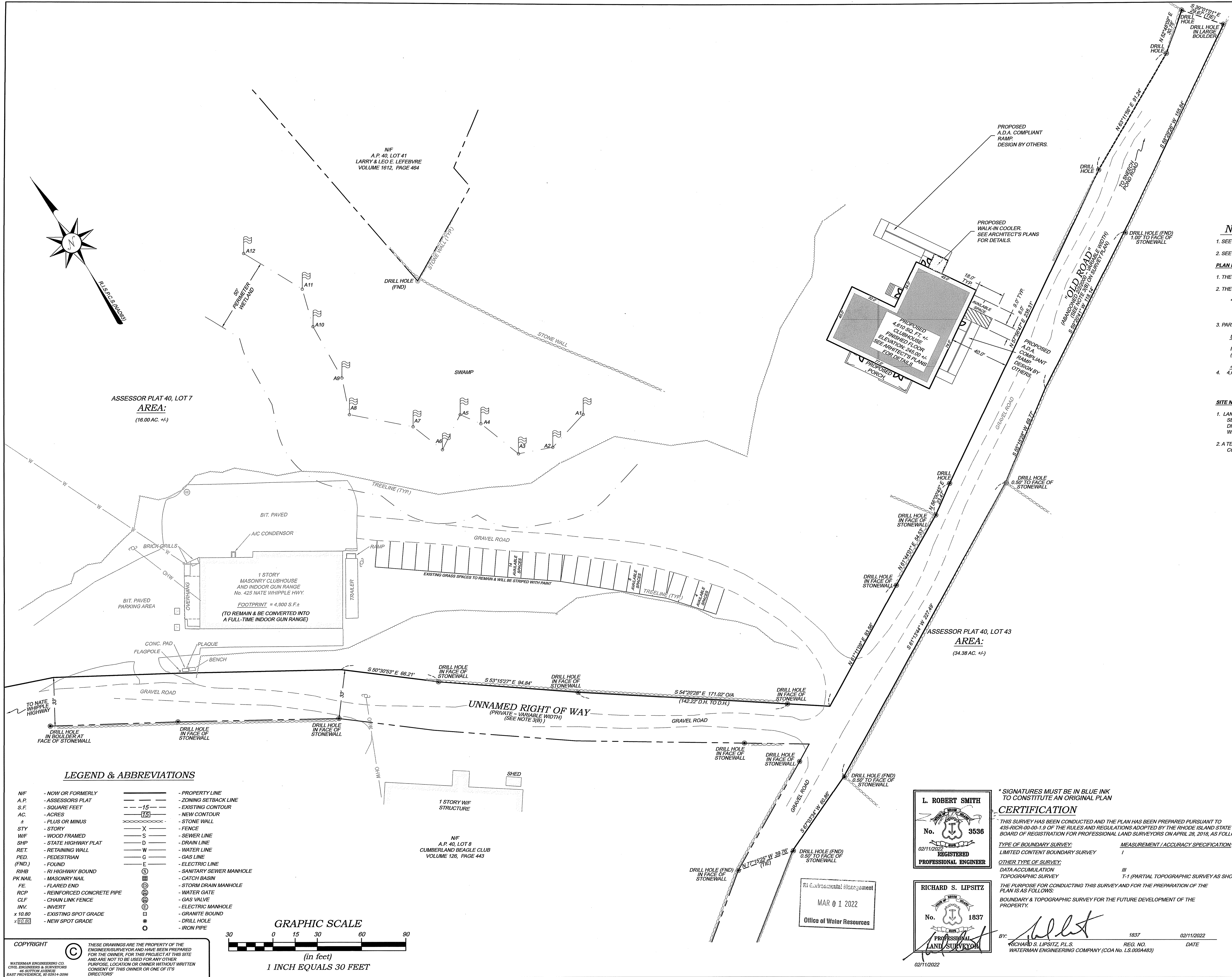
PROJECT NO: 17-100  
 SCALE: 1" = 30'  
 DATE: 11/30/17  
 DRAWN BY: RSB/BJT/MS  
 CHECKED BY: RSL/LRS  
 FILENAME: 17100\_202108a\_rev0  
 6 of 15\_SHTS  
 DRAWING # C-4

**DEMOLITION PLAN**  
 PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43  
 425 NATE WHIPPLE HIGHWAY  
 CUMBERLAND, RHODE ISLAND 02864

**CUMBERLAND BEAGLE CLUB**  
 P.O. BOX 7413  
 CUMBERLAND, RHODE ISLAND 02864

**Waterman ENGINEERING COMPANY**  
 Engineers & Surveyors - Est. 1894  
 46 Sutton Avenue  
 East Providence, RI  
 Phone: (401) - 438 - 5775  
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 www.watermanengineering.net

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**NOTES / REFERENCES**

- SEE SHEET 1 FOR EXISTING NOTES & REFERENCES.
- SEE SHEET 3 GENERAL NOTES & LEGEND FOR ADDITIONAL NOTES.

**PLAN NOTES:**

- THE PURPOSE OF THIS PLAN IS TO SHOW SITE LAYOUT FOR THE PROPOSED CLUBHOUSE.
- THE BELOW PERMITS/APPROVALS ARE ANTICIPATED TO BE REQUIRED:
  - \*RIDEM
  - STORMWATER PERMIT
  - RI POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (RIDES)

**PARKING REQUIREMENTS**

USE:	REQUIRED	PROVIDED
INDOOR COMMERCIAL RECREATION (1 SPACE PER 200 SQ. FT. G.F.A.)		27 SPACES EXISTING 0 SPACES PROPOSED
4,610 NEW G.F.A.	24 SPACES	27 SPACES EXISTING 0 SPACES PROPOSED
4,610 OF G.F.A.		27 SPACES TOTAL (SEE NOTE)

**PARKING NOTE:** NO IMPERVIOUS COVERAGE IS PROPOSED FOR PARKING. THE SPACES SHOWN ARE MEANT TO DELINEATE PARKING AVAILABLE OVER EXISTING PVIOUS AREAS.

**SITE NOTES:**

- LANDSCAPING SHALL BE PROVIDED IN ACCORDANCE WITH THE ZONING ORDINANCE. AT A MINIMUM PERMANENT SEEDING WITH NATIVE VEGETATION OR HYDROSEEDING, HAY, OR STRAW WILL BE REQUIRED FOR STABILIZING DISTURBED OR ERODIBLE SOILS. WHERE THE SUSPENSION OF WORK IS EXPECTED TO EXCEED 1 YEAR, AND WHERE SLOPES LESS THAN 100 FEET LONG AND 2:1 OR FLATTER HAVE BEEN DISTURBED.
- A TEMPORARY CONCRETE WASHOUT FACILITY SHALL BE USED TO CONTAIN THE CONTAMINANTS GENERATED BY CONCRETE WASHOUTS. SEE DETAIL.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
REVIEWED SITE PLAN APPLICATION #: 20-0292  
DATED: MAR 2 9 2022  
SEE LETTER OF SAME DATE  
*Nancy L. Freeman*

**RIDEM SUBMISSION**

NO.	DATE	REVISION	CHECKED BY
1	02/11/2022	REVISED PER RIDEM 11/10/2021 COMMENTS	RSL

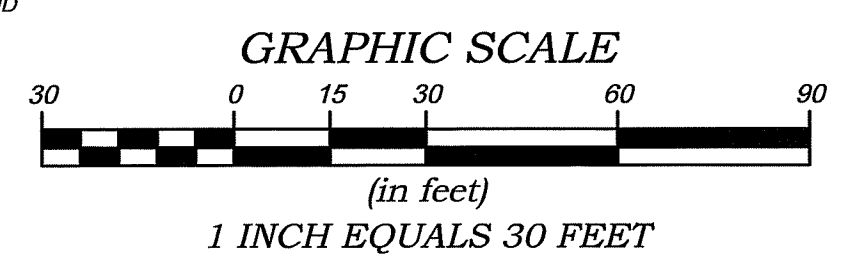
**SITE LAYOUT PLAN**  
PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43  
425 NATE WHIPPLE HIGHWAY  
CUMBERLAND, RHODE ISLAND 02864

**CUMBERLAND BEAGLE CLUB**  
P.O. BOX 7413  
CUMBERLAND, RHODE ISLAND 02864

CHECKED BY: RSL / LRS  
FILENAME: 17100\_20211018\_rsl\_v03  
7 of 15 SHEETS  
DRAWING #: C-5

**LEGEND & ABBREVIATIONS**

NF - NOW OR FORMERLY	- PROPERTY LINE
A.P. - ASSESSORS PLAT	- ZONING SETBACK LINE
S.F. - SQUARE FEET	- EXISTING CONTOUR
AC. - ACRES	- NEW CONTOUR
± - PLUS OR MINUS	- STONE WALL
STY - STORY	- FENCE
WF - WOOD FRAMED	- SEWER LINE
SHP - STATE HIGHWAY PLAT	- DRAIN LINE
RET - RETAINING WALL	- WATER LINE
PED. - PEDESTRIAN	- GAS LINE
(FND.) - FOUND	- ELECTRIC LINE
RHIB - RI HIGHWAY BOUND	- SANITARY SEWER MANHOLE
PK NAIL - MASONRY NAIL	- CATCH BASIN
FE - FLARED END	- STORM DRAIN MANHOLE
RCP - REINFORCED CONCRETE PIPE	- WATER GATE
CLF - CHAIN LINK FENCE	- GAS VALVE
INV. - INVERT	- ELECTRIC MANHOLE
x 10.80 - EXISTING SPOT GRADE	- GRANITE BOUND
x 17.25 - NEW SPOT GRADE	- DRILL HOLE
	- IRON PIPE



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WATERMAN ENGINEERING CO.  
CIVIL ENGINEERS & SURVEYORS  
46 SUTTON AVENUE  
EAST PROVIDENCE, RI 02914-2098

**L. ROBERT SMITH**  
No. 3536  
02/11/2022  
REGISTERED  
PROFESSIONAL ENGINEER

**RICHARD S. LIPSITZ**  
No. 1837  
02/11/2022  
REGISTERED  
LAND SURVEYOR

**CERTIFICATION**

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2018, AS FOLLOWS:

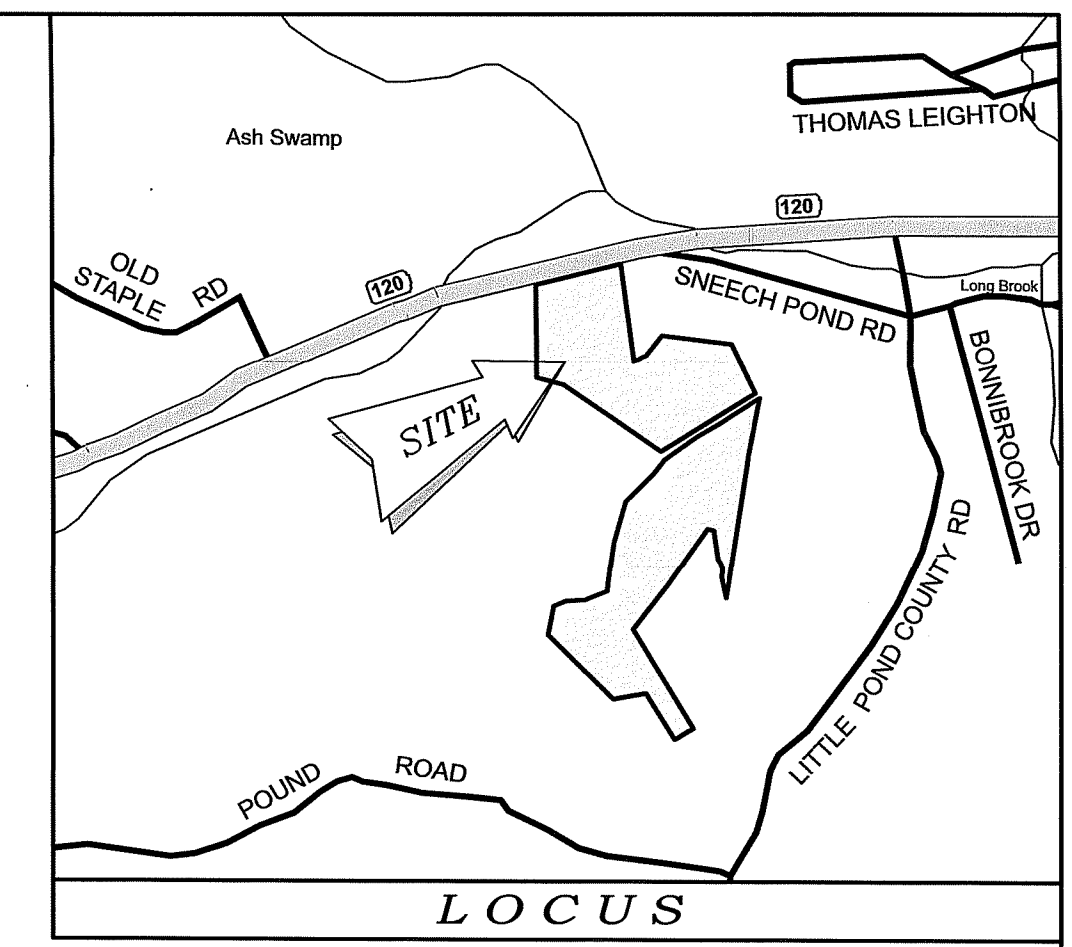
TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY  
MEASUREMENT / ACCURACY SPECIFICATION: I  
OTHER TYPE OF SURVEY: DATA ACCUMULATION TOPOGRAPHIC SURVEY  
OTHER TYPE OF SURVEY: III T-1 (PARTIAL TOPOGRAPHIC SURVEY AS SHOWN)

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.

SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

BY: *[Signature]* 1837 02/11/2022  
RICHARD S. LIPSITZ, P.L.S. REG. NO. DATE  
WATERMAN ENGINEERING COMPANY (COA No. LS.0004483)

RI Department of Environmental Management  
MAR 0 1 2022  
Office of Water Resources



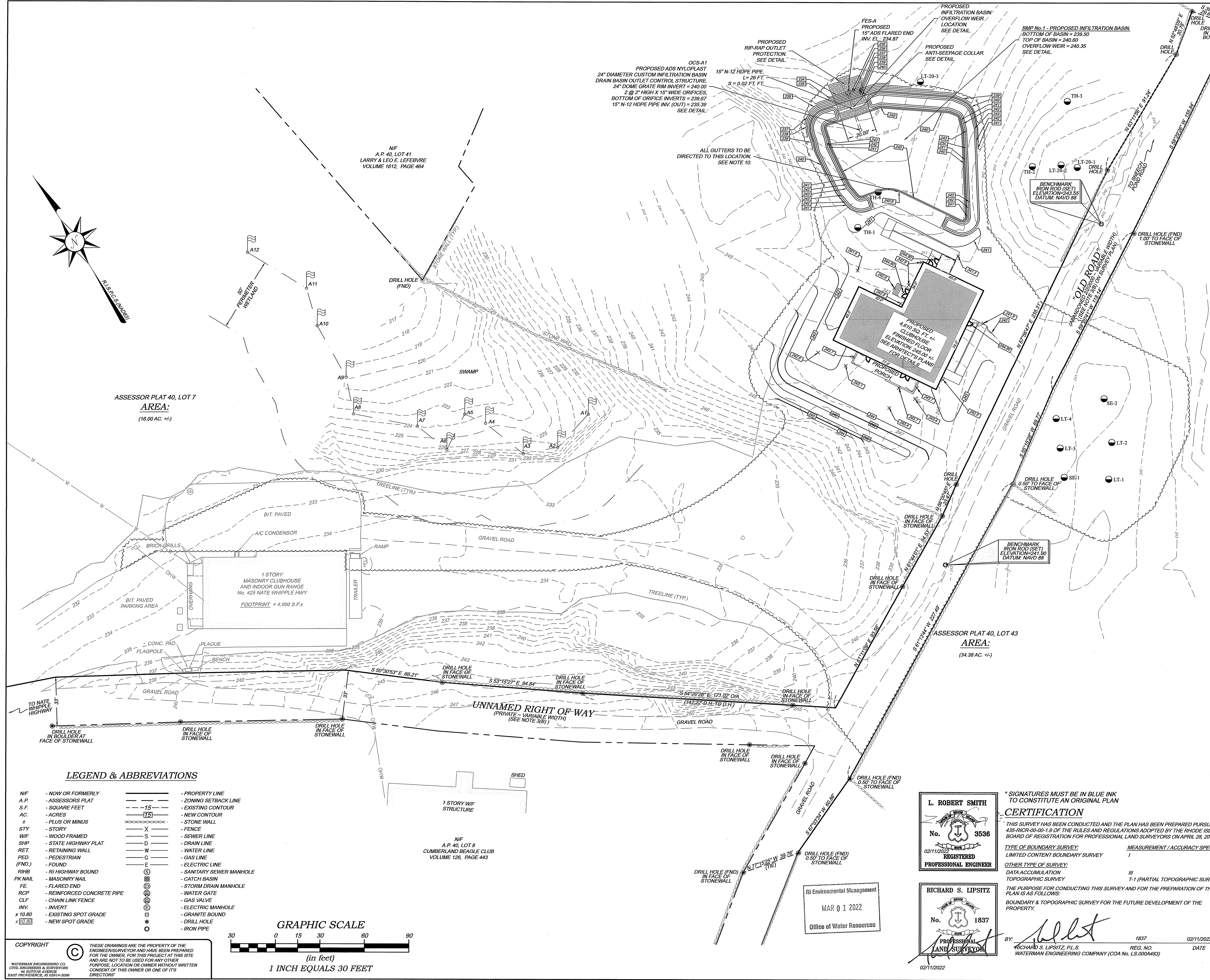
**NOTES / REFERENCES**

- SEE SHEET 1 FOR EXISTING NOTES & REFERENCES.
- SEE SHEET 3 GENERAL NOTES & LEGEND FOR ADDITIONAL NOTES.
- SOILS WITHIN THE PROPOSED PROJECT ARE CANTON & CHARLTON SOILS (C&C). SOILS CLASSIFIED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE AS FINE SANDY LOAMS, VERY ROCKY, WITH SLOPES BEING BETWEEN 3 - 15 PERCENT.
- CONTRACTOR TO VERIFY THAT ALL STRUCTURES ARE COMPATIBLE WITH FRAME & GRATE.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE SHOP DRAWINGS AND SPECIFICATIONS FOR ALL DRAINAGE RELATED ITEMS FOR REVIEW AND APPROVAL BY THE ENGINEER, PRIOR TO ORDERING.
- ALL STRUCTURES SHALL BE DESIGNED FOR H-20 LOADING.
- UNLESS OTHERWISE NOTED, ALL SOLID DRAINAGE PIPE SHALL BE N-12 HDPE OR APPROVED EQUAL. PIPE BEDDING SHALL BE IN CRUSHED STONE OR GRAVEL BORROW COMPACTED TO 95% DRY DENSITY (MODIFIED PROCTOR METHOD). PIPE SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE AS-BUILT PLANS THAT INCLUDE DRAINAGE SYSTEM (PIPE INVERTS, OUTLET CONTROL STRUCTURES, STORMWATER BASIN LOCATION AND GRADES, AND INVERTS).
- THE INSTALLATION OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE INSPECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE ENGINEER BEFORE AND DURING THE INSTALLATION OF THE STORMWATER MANAGEMENT SYSTEM FOR INSPECTIONS. AFTER EXCAVATION OF THE STORMWATER AREA, A BOTTOM BED INSPECTION TO OBSERVE THE REMAINING SOILS WILL BE REQUIRED BY THE ENGINEER. CONTRACTOR SHALL COORDINATE.
- ROOF DRAINS FROM THE PROPOSED CLUBHOUSE SHALL BE DIRECTED TO THE STORMWATER BASIN. CONTRACTOR TO COORDINATE WITH ARCHITECT ON ROOF DRAIN LOCATIONS.
- LANDSCAPING SHALL BE PROVIDED IN ACCORDANCE WITH THE ZONING ORDINANCE. AT A MINIMUM PERMANENT SEEDING WITH NATIVE VEGETATION OR HYDROSEEDING, HAY OR STRAW WILL BE REQUIRED FOR STABILIZING DISTURBED OR ERODIBLE SOILS, WHERE THE SUSPENSION OF WORK IS EXPECTED TO EXCEED 1 YEAR, AND WHERE SLOPES LESS THAN 100 FEET LONG AND 2:1 OR FLATTER HAVE BEEN DISTURBED.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION #: 20-0292  
 DATED: MAR 2 9 2022  
 SEE LETTER OF SAME DATE  
*Nancy L. Freeman*

**RIDEM SUBMISSION**

NO.	DATE	REVISION	COMMENTS	CHECKED BY
1	02/11/2022	REVISED PER RIDEM 11/10/2021 COMMENTS		RSL
<b>GRADING &amp; DRAINAGE PLAN</b> PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43 425 NATE WHIPPLE HIGHWAY CUMBERLAND, RHODE ISLAND 02864				
<b>CUMBERLAND BEAGLE CLUB</b> P.O. BOX 7413 CUMBERLAND, RHODE ISLAND 02864				
PROJECT NO: 17-100 SCALE: 1" = 30' DATE: 11/30/17 DRAWN BY: EBP/BJT/MS CHECKED BY: RSL/LRS FILENAME: 17100_201806.rvt 8 of 15 SHEETS DRAWING #: C-6				

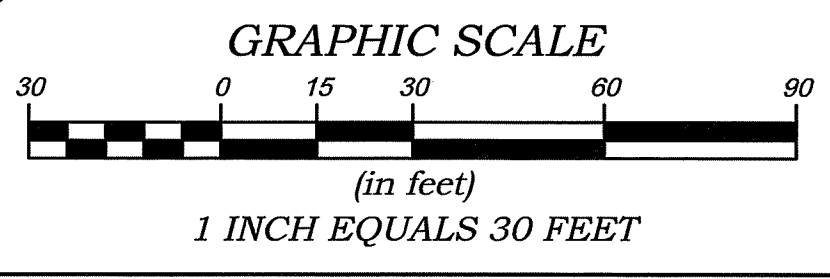


ASSESSOR PLAT 40, LOT 7  
 AREA:  
 (16.00 AC. +/-)

ASSESSOR PLAT 40, LOT 43  
 AREA:  
 (34.38 AC. +/-)

**LEGEND & ABBREVIATIONS**

- |         |                            |       |                          |
|---------|----------------------------|-------|--------------------------|
| NF      | - NOW OR FORMERLY          | ---   | - PROPERTY LINE          |
| A.P.    | - ASSESSORS PLAT           | - - - | - ZONING SETBACK LINE    |
| S.F.    | - SQUARE FEET              | - - - | - EXISTING CONTOUR       |
| AC.     | - ACRES                    | ---   | - NEW CONTOUR            |
| ±       | - PLUS OR MINUS            | ---   | - STONE WALL             |
| STY     | - STORY                    | X     | - FENCE                  |
| WF      | - WOOD FRAMED              | S     | - SEWER LINE             |
| SHP     | - STATE HIGHWAY PLAT       | D     | - DRAIN LINE             |
| RET.    | - RETAINING WALL           | W     | - WATER LINE             |
| PED.    | - PEDESTRIAN               | G     | - GAS LINE               |
| (FND.)  | - FOUND                    | E     | - ELECTRIC LINE          |
| RHB     | - RI HIGHWAY BOUND         | ⊙     | - SANITARY SEWER MANHOLE |
| PK MAIL | - MASONRY MAIL             | ⊙     | - CATCH BASIN            |
| FE      | - FLARED END               | ⊙     | - STORM DRAIN MANHOLE    |
| RCP     | - REINFORCED CONCRETE PIPE | ⊙     | - WATER GATE             |
| CLF     | - CHAIN LINK FENCE         | ⊙     | - GAS VALVE              |
| INV.    | - INVERT                   | ⊙     | - ELECTRIC MANHOLE       |
| x 10.80 | - EXISTING SPOT GRADE      | ⊙     | - GRANITE BOUND          |
| x 10.80 | - NEW SPOT GRADE           | ⊙     | - DRILL HOLE             |
|         |                            | ⊙     | - IRON PIPE              |



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L. ROBERT SMITH  
 No. 3536  
 REGISTERED PROFESSIONAL ENGINEER

RICHARD S. LIPSITZ  
 No. 1837  
 REGISTERED PROFESSIONAL LAND SURVEYOR

\* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

**CERTIFICATION**

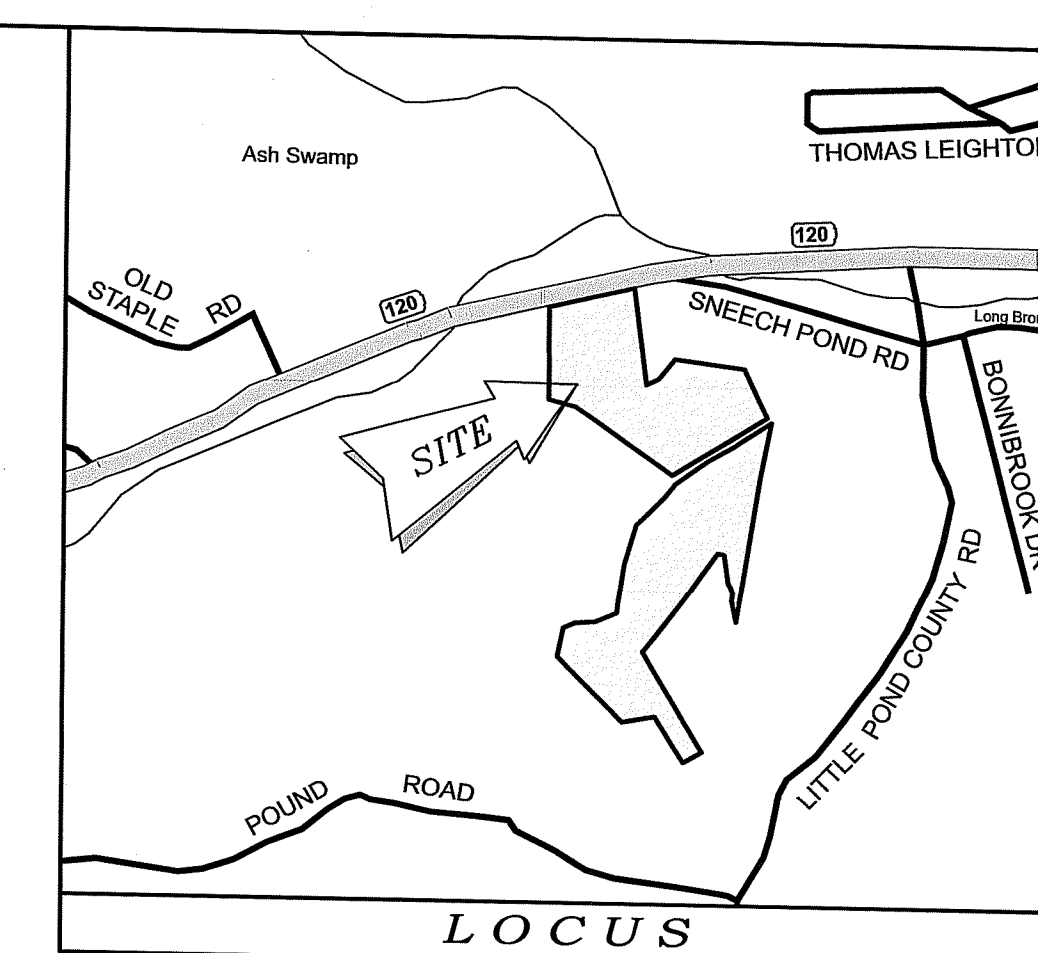
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-19 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2018, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY  
 MEASUREMENT / ACCURACY SPECIFICATION: I

OTHER TYPE OF SURVEY: DATA ACCUMULATION TOPOGRAPHIC SURVEY  
 THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.

By: *[Signature]* 1837 02/11/2022  
 RICHARD S. LIPSITZ, P.L.S. REG. NO. DATE  
 WATERMAN ENGINEERING COMPANY (COA NO. LS.0004483)

Office of Water Resources  
 MAR 0 1 2022



**NOTES / REFERENCES**  
 1. SEE SHEET 1 FOR EXISTING NOTES & REFERENCES.  
 2. SEE SHEET 3 GENERAL NOTES & LEGEND FOR ADDITIONAL NOTES.

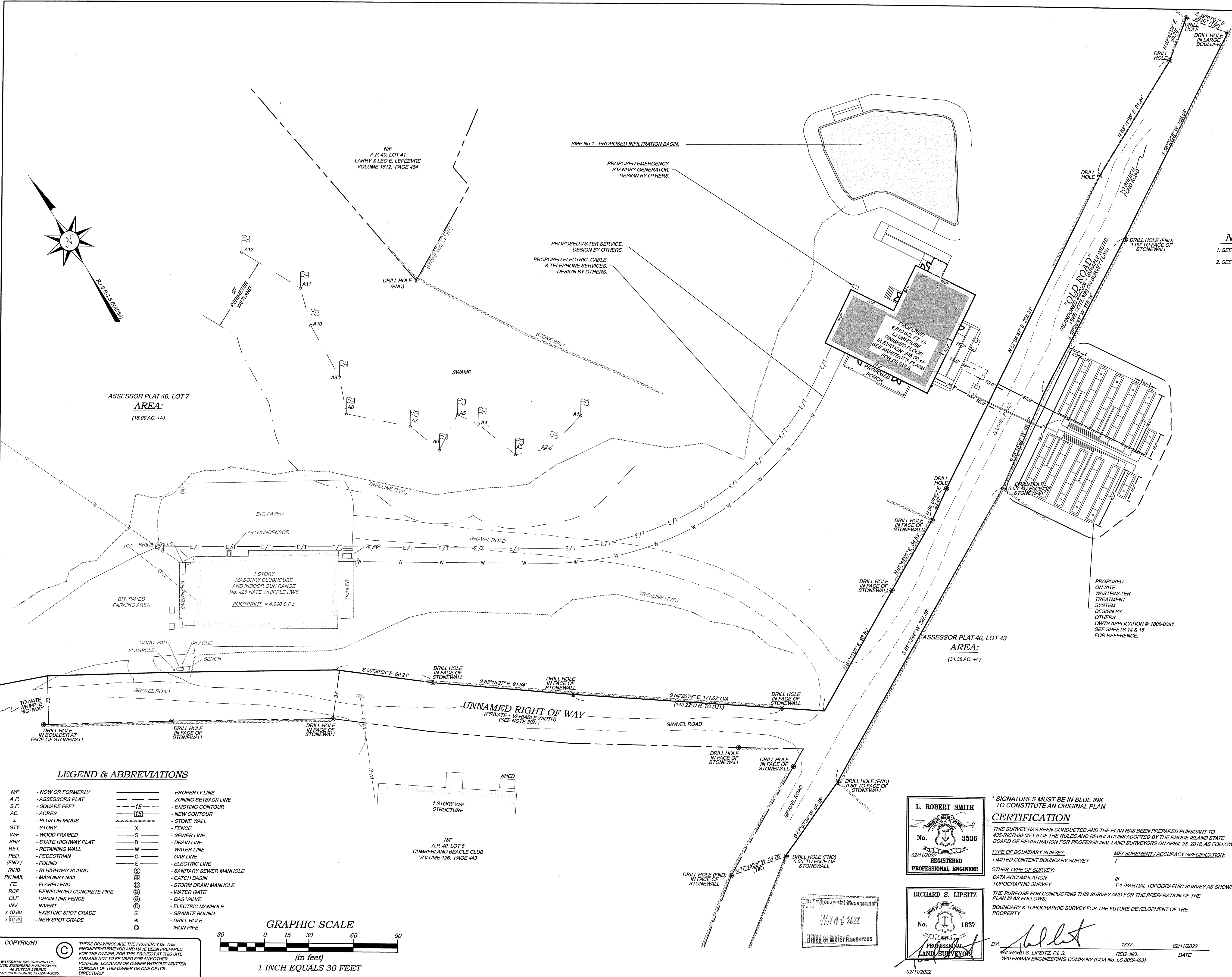
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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 DATED: MAR 29 2022  
 SEE LETTER OF SAME DATE  
*Nancy L. Freeman*

**RIDEM SUBMISSION**

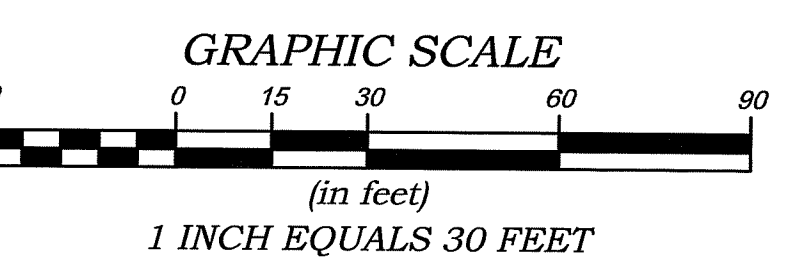
NO.	DATE	REVISION	COMMENTS	RSL	CHECKED BY
1	02/11/2022	REVISED PER RIDEM 11/10/2021 COMMENTS			

PROJECT NO: 17-100  
 SCALE: 1" = 30'  
 DATE: 11/30/17  
 DRAWN BY: EBP/BJT/MS  
 CHECKED BY: RSL/LRS  
 FILENAME: 17100\_2021SRW.rvt  
 9 of 15 SHEETS  
 DRAWING #: C-7

**Waterman ENGINEERING COMPANY**  
 Engineers & Surveyors - Est. 1894  
 46 Sutton Avenue  
 East Providence, RI  
 Phone: (401) - 438 - 5775  
 Fax: (401) - 438 - 5773  
 www.watermanengineering.net



- LEGEND & ABBREVIATIONS**
- |                                   |           |                        |
|-----------------------------------|-----------|------------------------|
| NF - NOW OR FORMERLY              | — — — — — | PROPERTY LINE          |
| A.P. - ASSESSORS PLAT             | - - - - - | ZONING SETBACK LINE    |
| S.F. - SQUARE FEET                | - - - - - | EXISTING CONTOUR       |
| AC. - ACRES                       | — (S) —   | NEW CONTOUR            |
| + - PLUS OR MINUS                 | — (S) —   | STONE WALL             |
| STY - STORY                       | X         | FENCE                  |
| WF - WOOD FRAMED                  | S         | SEWER LINE             |
| SHP - STATE HIGHWAY PLAT          | D         | DRAIN LINE             |
| RET. - RETAINING WALL             | W         | WATER LINE             |
| PE.D. - PEDESTRIAN                | G         | GAS LINE               |
| FOUND. - FOUND                    | E         | ELECTRIC LINE          |
| R.H.B. - RI HIGHWAY BOUND         | S         | SANITARY SEWER MANHOLE |
| M.N. - MASONRY NAIL               | □         | CATCH BASIN            |
| FE. - FLARED END                  | ⊕         | STORM DRAIN MANHOLE    |
| R.C.P. - REINFORCED CONCRETE PIPE | ⊕         | WATER GATE             |
| CLF. - CHAIN LINK FENCE           | ⊕         | GAS VALVE              |
| INV. - INVERT                     | ⊕         | ELECTRIC MANHOLE       |
| X 10.80 - EXISTING SPOT GRADE     | ⊕         | GRANITE BOUND          |
| X 10.80 - NEW SPOT GRADE          | ⊕         | DRILL HOLE             |
|                                   | ○         | IRON PIPE              |

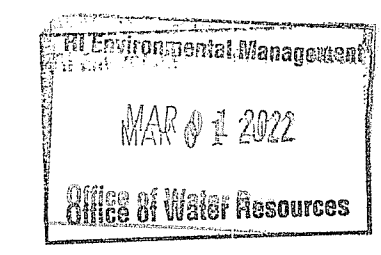


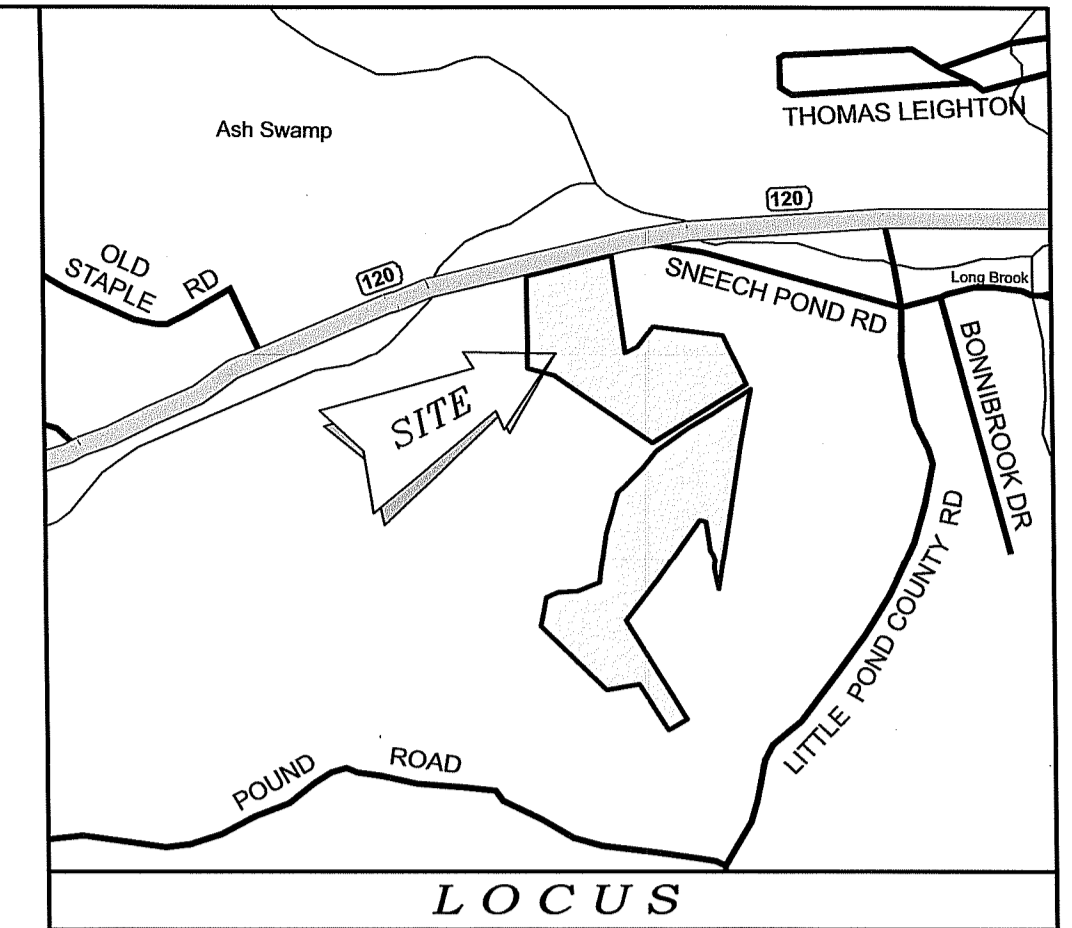
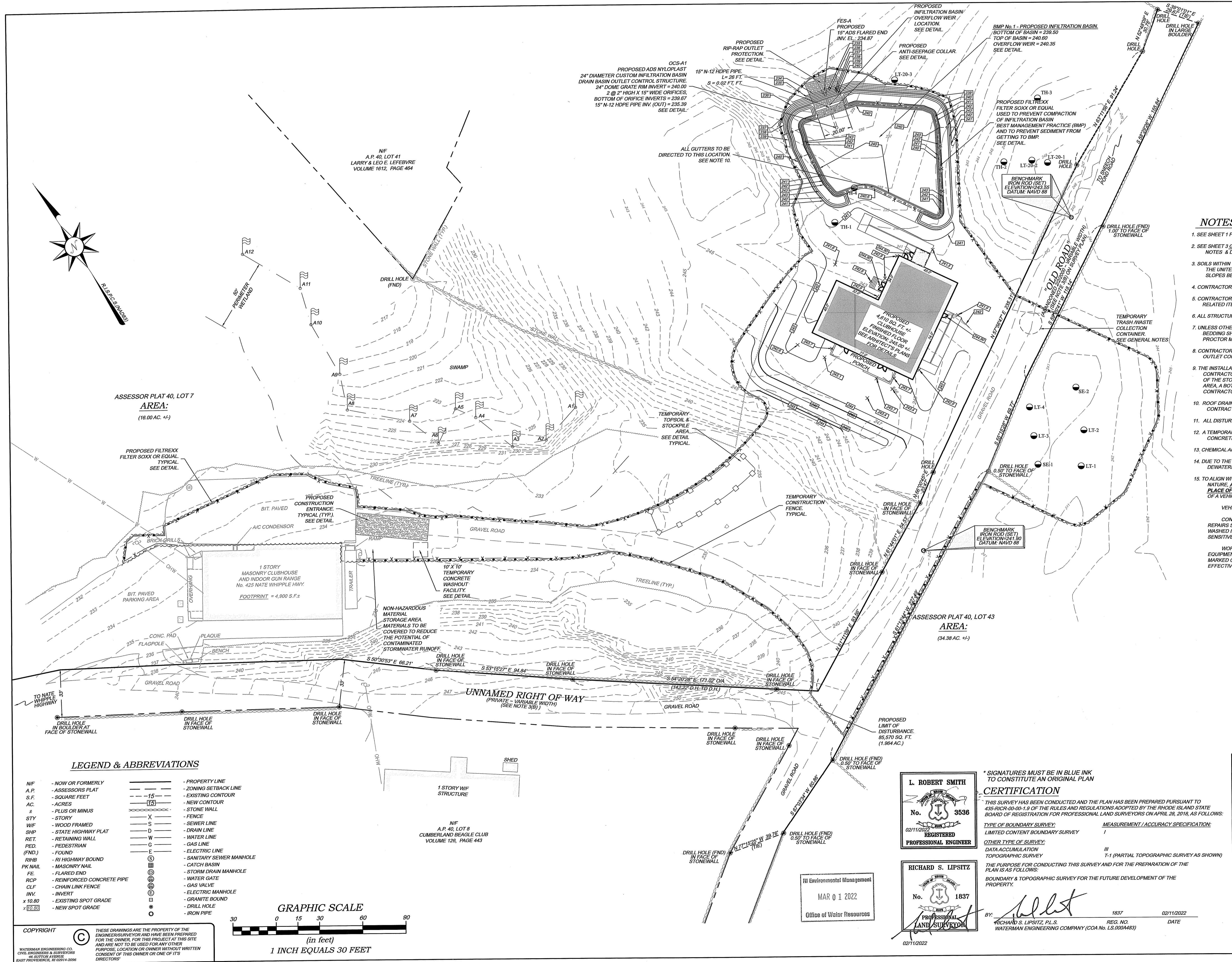
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**L. ROBERT SMITH**  
 No. 3536  
 02/11/2022  
 REGISTERED  
 PROFESSIONAL ENGINEER

**RICHARD S. LIPSITZ**  
 No. 1837  
 02/11/2022  
 REGISTERED  
 PROFESSIONAL LAND SURVEYOR

**CERTIFICATION**  
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2018, AS FOLLOWS:  
 TYPE OF BOUNDARY SURVEY: MEASUREMENT / ACCURACY SPECIFICATION:  
 LIMITED CONTENT BOUNDARY SURVEY I  
 OTHER TYPE OF SURVEY: DATA ACCUMULATION III  
 TOPOGRAPHIC SURVEY T-1 (PARTIAL TOPOGRAPHIC SURVEY AS SHOWN)  
 THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
 BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.  
 BY: *[Signature]* 1837 02/11/2022  
 RICHARD S. LIPSITZ, P.L.S. REG. NO. DATE  
 WATERMAN ENGINEERING COMPANY (COA No. L.S.0004483)





- ### NOTES / REFERENCES
- SEE SHEET 1 FOR EXISTING NOTES & REFERENCES.
  - SEE SHEET 3 GENERAL NOTES & LEGEND AND SHEETS 11, 12 & 13 DETAIL PLAN 1, 2 & 3 FOR ADDITIONAL NOTES & DETAILS.
  - SOILS WITHIN THE PROPOSED PROJECT ARE CANTON & CHARLTON SOILS (C&C). SOILS CLASSIFIED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE AS FINE SANDY LOAMS, VERY ROCKY, WITH SLOPES BEING BETWEEN 3 - 15 PERCENT.
  - CONTRACTOR TO VERIFY THAT ALL STRUCTURES ARE COMPATIBLE WITH FRAME & GRATE.
  - CONTRACTOR IS RESPONSIBLE TO PROVIDE SHOP DRAWINGS AND SPECIFICATIONS FOR ALL DRAINAGE RELATED ITEMS FOR REVIEW AND APPROVAL BY THE ENGINEER, PRIOR TO ORDERING.
  - ALL STRUCTURES SHALL BE DESIGNED FOR H-20 LOADING.
  - UNLESS OTHERWISE NOTED, ALL SOLID DRAINAGE PIPE SHALL BE N-12 HDPE OR APPROVED EQUAL PIPE BEDDING SHALL BE IN CRUSHED STONE OR GRAVEL BORROW COMPACTED TO 95% DRY DENSITY (MODIFIED PROCTOR METHOD). PIPE SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S REQUIREMENTS.
  - CONTRACTOR SHALL PROVIDE AS-BUILT PLANS THAT INCLUDE DRAINAGE SYSTEM (PIPE INVERTS, OUTLET CONTROL STRUCTURES, STORMWATER BASIN LOCATION AND GRADES, AND INVERTS).
  - THE INSTALLATION OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE INSPECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE ENGINEER BEFORE AND DURING THE INSTALLATION OF THE STORMWATER MANAGEMENT SYSTEM FOR INSPECTIONS. AFTER EXCAVATION OF THE STORMWATER AREA, A BOTTOM BED INSPECTION TO OBSERVE THE REMAINING SOILS WILL BE REQUIRED BY THE ENGINEER. CONTRACTOR SHALL COORDINATE.
  - ROOF DRAINS FROM THE PROPOSED CLUBHOUSE SHALL BE DIRECTED TO THE STORMWATER BASIN. CONTRACTOR TO COORDINATE WITH ARCHITECT ON ROOF DRAIN LOCATIONS.
  - ALL DISTURBED AREAS SHALL BE LOAM AND SEEDED UNLESS OTHERWISE STATED.
  - A TEMPORARY CONCRETE WASHOUT FACILITY SHALL BE USED TO CONTAIN THE CONTAMINANTS GENERATED BY CONCRETE WASHOUTS. SEE DETAIL.
  - CHEMICAL AND/OR HAZARDOUS WASTE MATERIALS ARE NOT ALLOWED ON SITE.
  - DUE TO THE SIZE OF THE LIMIT OF DISTURBANCE AND THE STAGING OF THE PROJECT, IT IS NOT ANTICIPATED THAT DEWATERING WILL BE NEEDED TO COMPLETE THE PROPOSED PROJECT.
  - TO ALIGN WITH THE CUMBERLAND BEAGLE CLUB'S COMMITMENT TO PRESERVING NATURE, ALL VEHICLE & EQUIPMENT FUELING & MAINTENANCE IS TO TAKE PLACE OFF-SITE. DRIP PANS AND SPILL KITS MUST BE KEPT ON-SITE IN THE EVENT OF A VEHICLE LEAK AT A MINIMUM, THE FOLLOWING MUST BE FOLLOWED:  
VEHICLE & EQUIPMENT MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE.  
CONSTRUCTION VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS. REPAIRS SHALL BE DONE OFF-SITE TO PREVENT ANY MATERIAL FROM BEING WASHED INTO A STORM DRAIN SYSTEM OR INTO ANY ENVIRONMENTALLY SENSITIVE AREAS.  
WORKERS SHOULD BE TRAINED IN THE EVENT OF A VEHICLE SPILL. EQUIPMENT AND MATERIALS FOR CLEANUP MUST BE READILY ACCESSIBLE AND MARKED OUT CLEARLY SO WORKERS CAN FOLLOW PROCEDURES QUICKLY AND EFFECTIVELY.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION #: 20-0292  
 DATED: MAR 2 9 2022  
 SEE LETTER OF SAME DATE  
*Richard L. Freeman*

### RIDEM SUBMISSION

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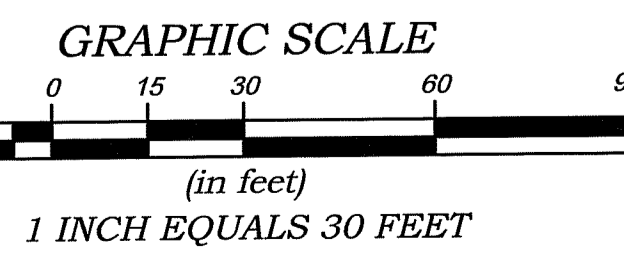
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 FILENAME: 17100\_202150a\_n40  
 10 of 15 SHEETS  
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CUMBERLAND BEAGLE CLUB  
 P.O. BOX 7413  
 CUMBERLAND, RHODE ISLAND 02864

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 ENGINEERING COMPANY  
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### LEGEND & ABBREVIATIONS

- |         |                            |                          |
|---------|----------------------------|--------------------------|
| NF      | - NOW OR FORMERLY          | - PROPERTY LINE          |
| A.P.    | - ASSESSORS PLAT           | - ZONING SETBACK LINE    |
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| WF      | - WOOD FRAMED              | - SEWER LINE             |
| SHF     | - STATE HIGHWAY PLAT       | - DRAIN LINE             |
| RET     | - RETAINING WALL           | - WATER LINE             |
| PED.    | - PEDESTRIAN               | - GAS LINE               |
| (FND.)  | - FOUND                    | - ELECTRIC LINE          |
| RIBB    | - RI HIGHWAY BOUND         | - SANITARY SEWER MANHOLE |
| PK NAIL | - MASONRY NAIL             | - CATCH BASIN            |
| FE      | - FLARED END               | - STORM DRAIN MANHOLE    |
| RCP     | - REINFORCED CONCRETE PIPE | - WATER GATE             |
| CLF     | - CHAIN LINK FENCE         | - GAS VALVE              |
| INV.    | - INVERT                   | - ELECTRIC MANHOLE       |
| x 10.80 | - EXISTING SPOT GRADE      | - GRANITE MOUND          |
| x 10.80 | - NEW SPOT GRADE           | - DRILL HOLE             |
|         |                            | - IRON PIPE              |



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WATERMAN ENGINEERING CO.  
 CIVIL ENGINEERS & SURVEYORS  
 46 SUTTON AVENUE  
 EAST PROVIDENCE, RI 02914-2096

L. ROBERT SMITH  
 No. 3536  
 02/11/2022  
 REGISTERED  
 PROFESSIONAL ENGINEER

RICHARD S. LIPSITZ  
 No. 1837  
 02/11/2022  
 REGISTERED  
 LAND SURVEYOR

\* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

### CERTIFICATION

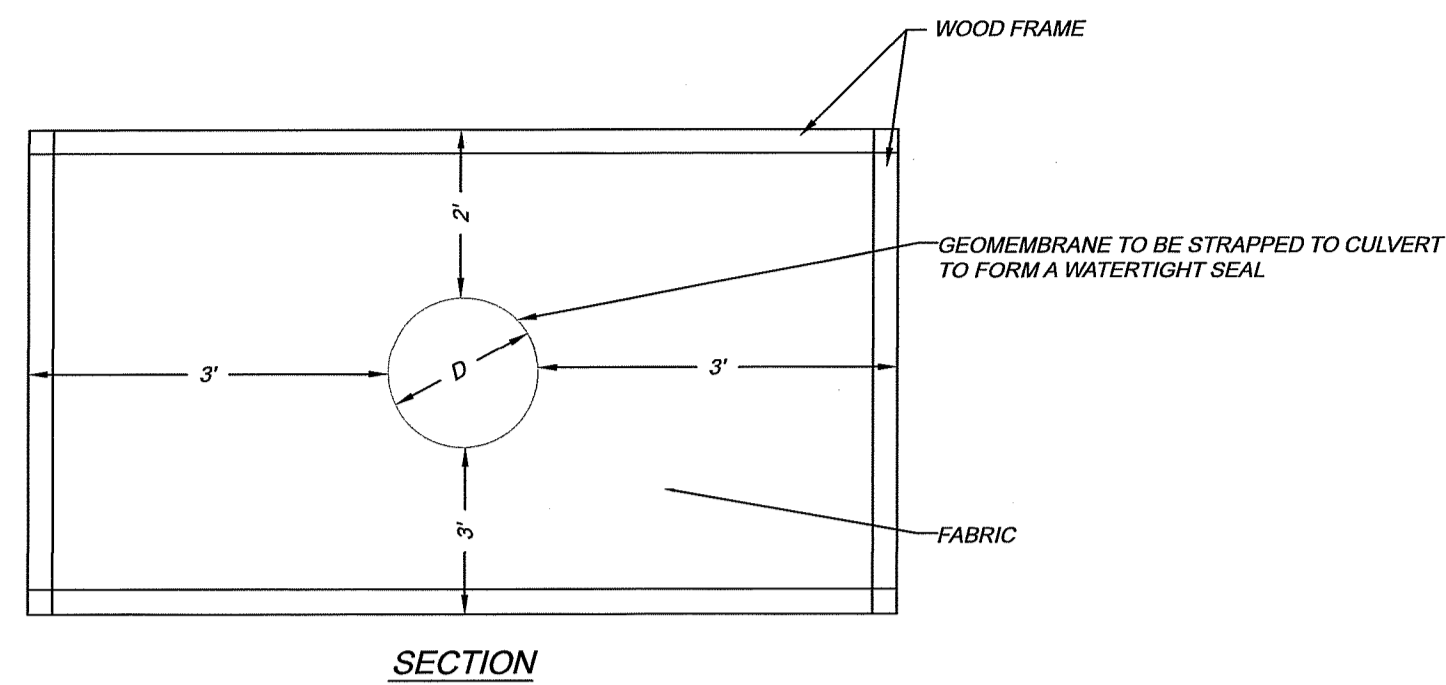
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TYPE OF BOUNDARY SURVEY: DATA ACCUMULATION TOPOGRAPHIC SURVEY  
 MEASUREMENT / ACCURACY SPECIFICATION: I (PARTIAL TOPOGRAPHIC SURVEY AS SHOWN)

OTHER TYPE OF SURVEY: THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
 BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE PROPERTY.

BY: *Richard S. Lipsitz*  
 RICHARD S. LIPSITZ, P.L.S. REG. NO. 1837  
 WATERMAN ENGINEERING COMPANY (COA NO. LS.0004483) DATE: 02/11/2022

RI Environmental Management  
 MAR 0 1 2022  
 Office of Water Resources

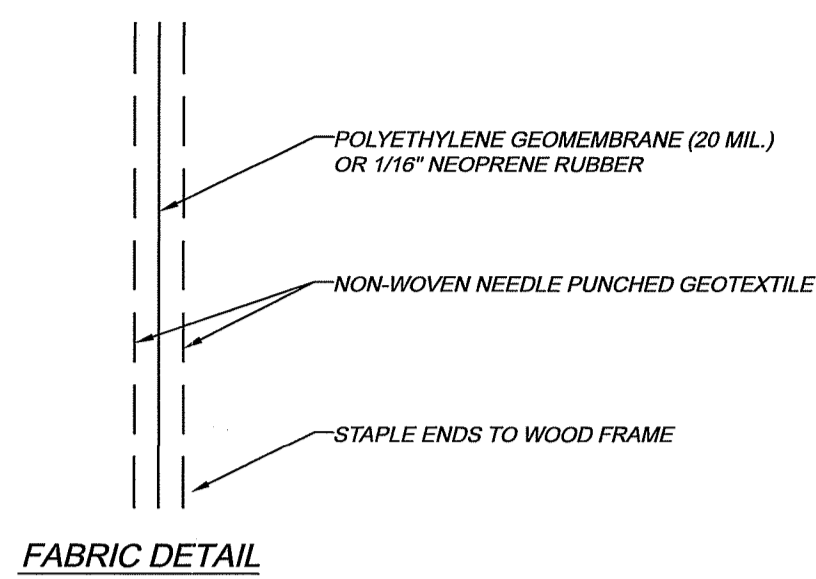


SECTION

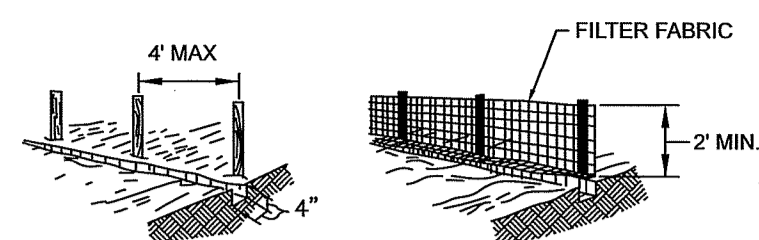
ANTI-SEEP COLLAR DETAILS  
(NOT TO SCALE)

NOTES:

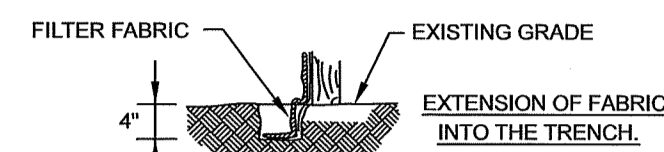
1. ALL CULVERTS EXITING PROPOSED PONDS ALL HAVE AN ANTI-SEEP COLLAR INSTALLED AT THEIR MID LENGTH.
2. THE STRAP SHALL BE SUBJECT TO ENGINEER'S APPROVAL. THE STRAP MAY BE A POLYPROPYLENE CORD WITH A TENSILE STRENGTH OF 200 POUNDS AND SHALL PROVIDE A PERMANENT, NON-SLIP TIE.



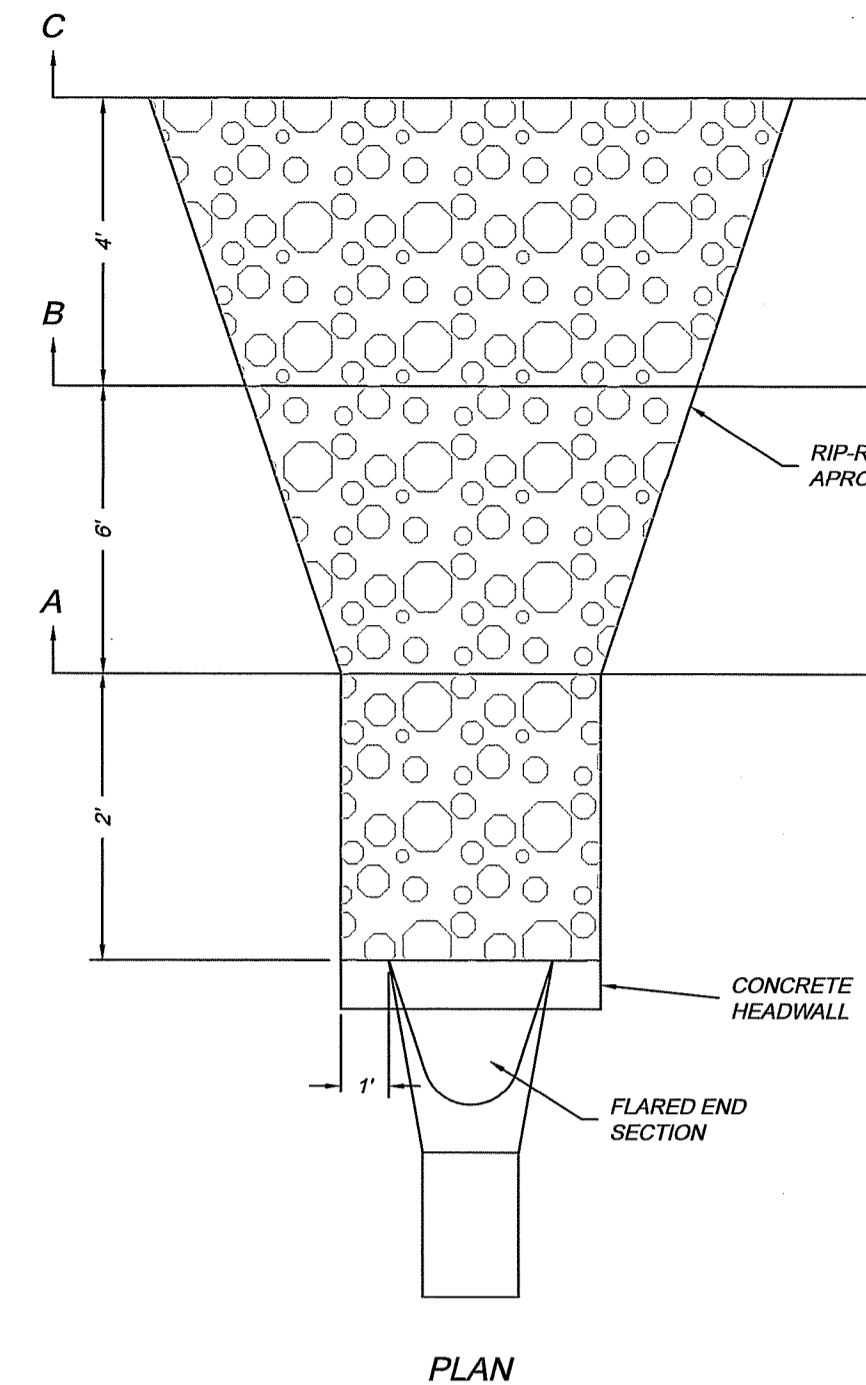
FABRIC DETAIL



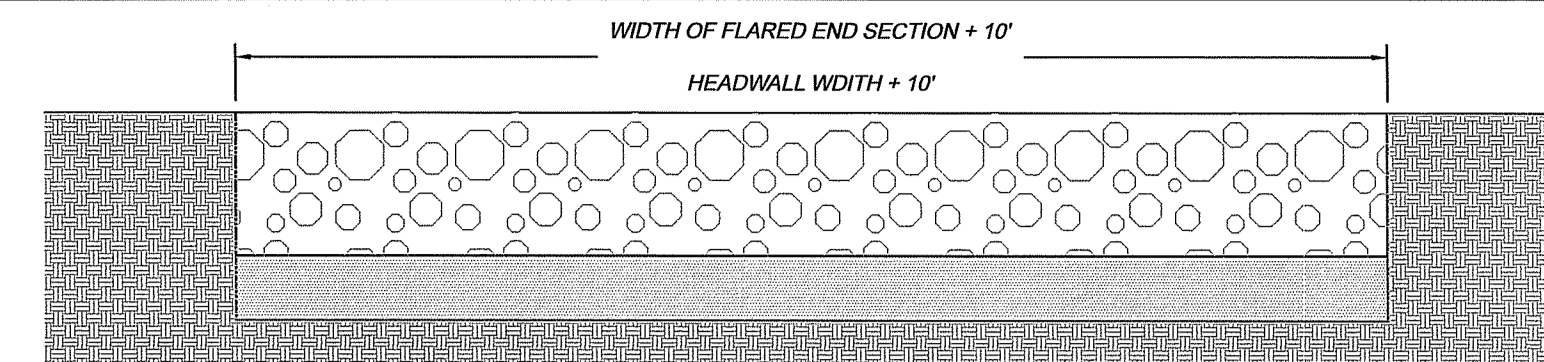
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. STAPLE FILTER FABRIC TO THE POSTS AND EXTEND INTO TRENCH.
3. BACK FILL AND COMPACT THE EXCAVATED SOIL INTO THE TRENCH.



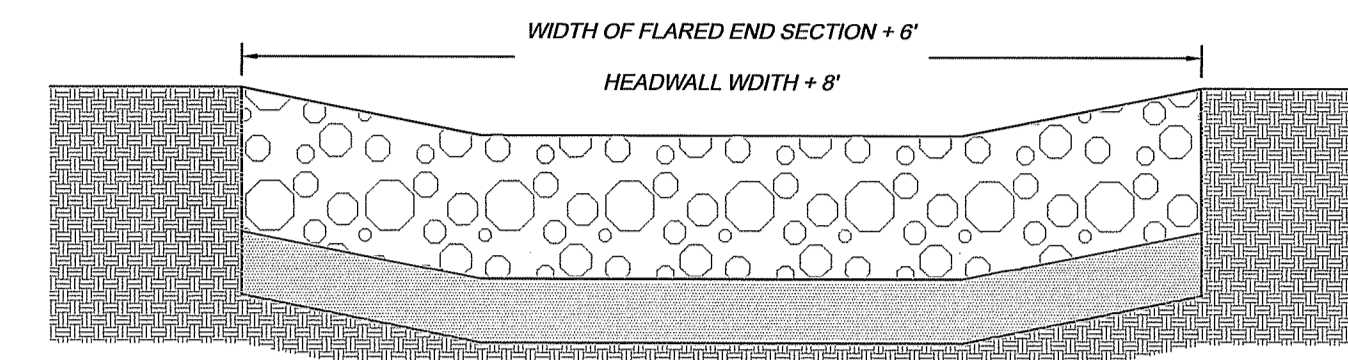
SILT FENCE  
(N.T.S.)



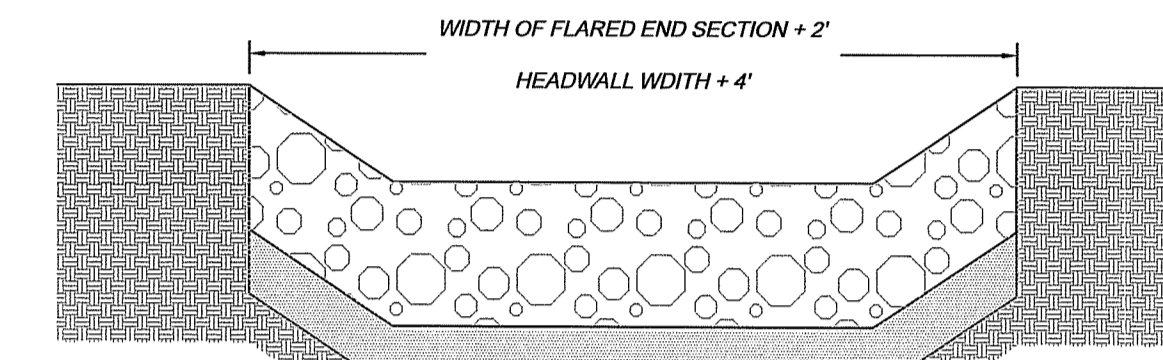
PLAN



SECTION C-C



SECTION B-B

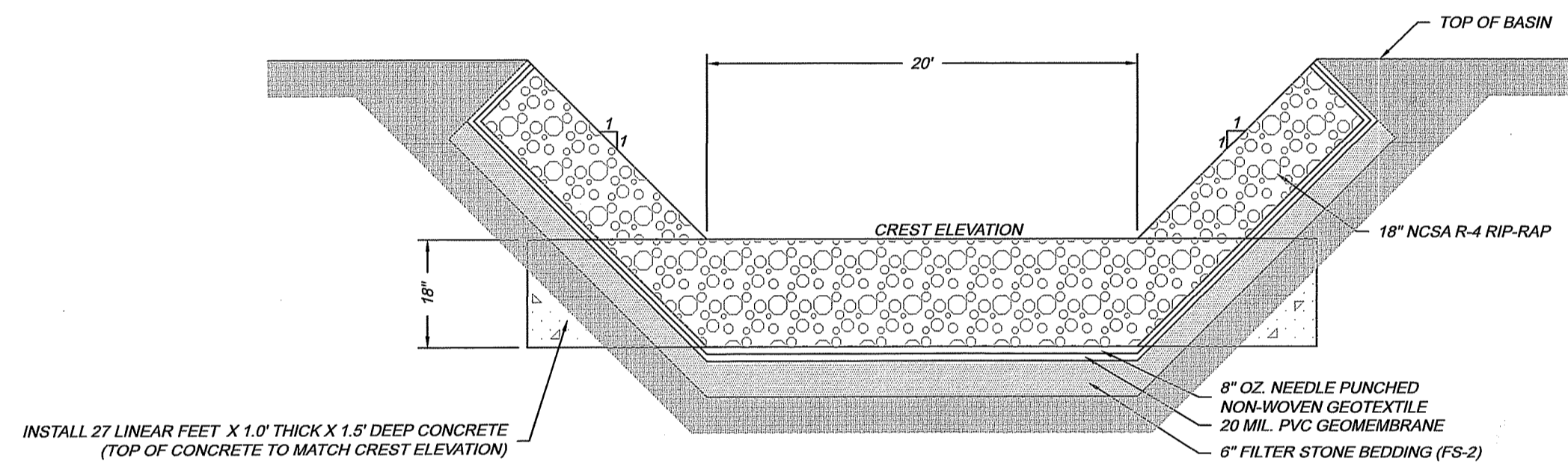


SECTION A-A

NOTES:

1. UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.
2. DIMENSIONS MAY BE MODIFIED TO MEET FIELD CONDITIONS.
3. SEE "TYPICAL RIP-RAP OUTLET PROTECTION" DETAIL FOR CONSTRUCTION MATERIAL SPECIFICATIONS.

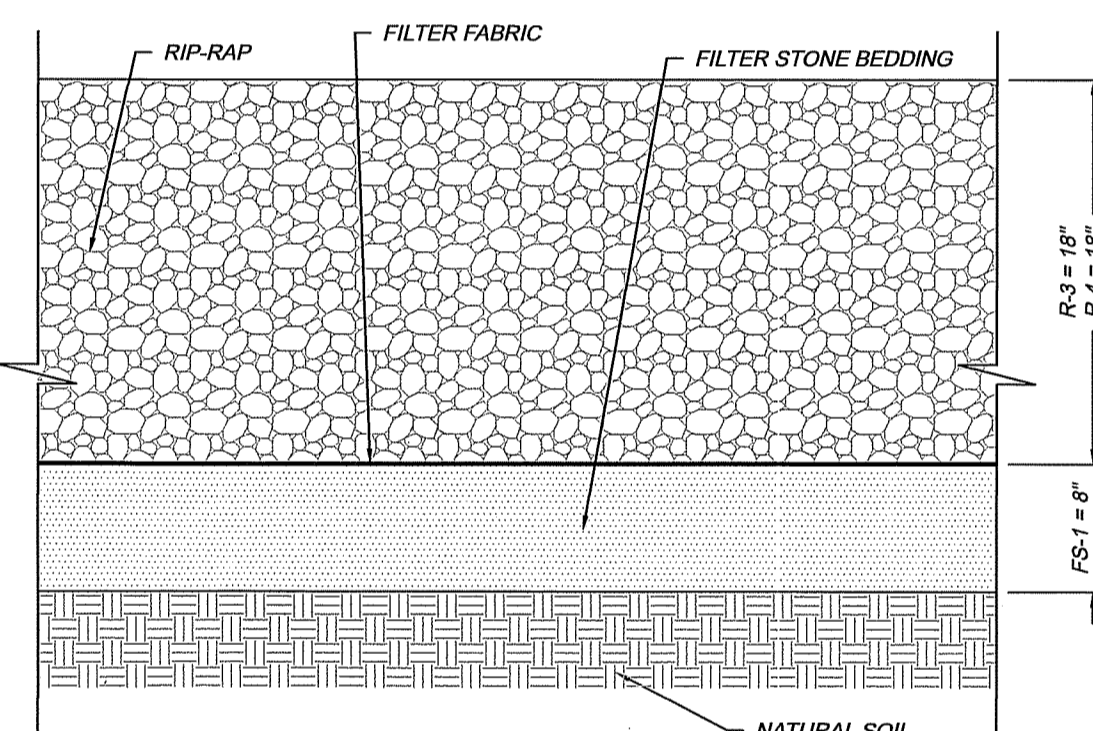
TYPICAL LAYOUT OF RIP-RAP OUTLET PROTECTION @ FLARED END SECTIONS & CONCRETE HEADWALLS  
(N.T.S.)



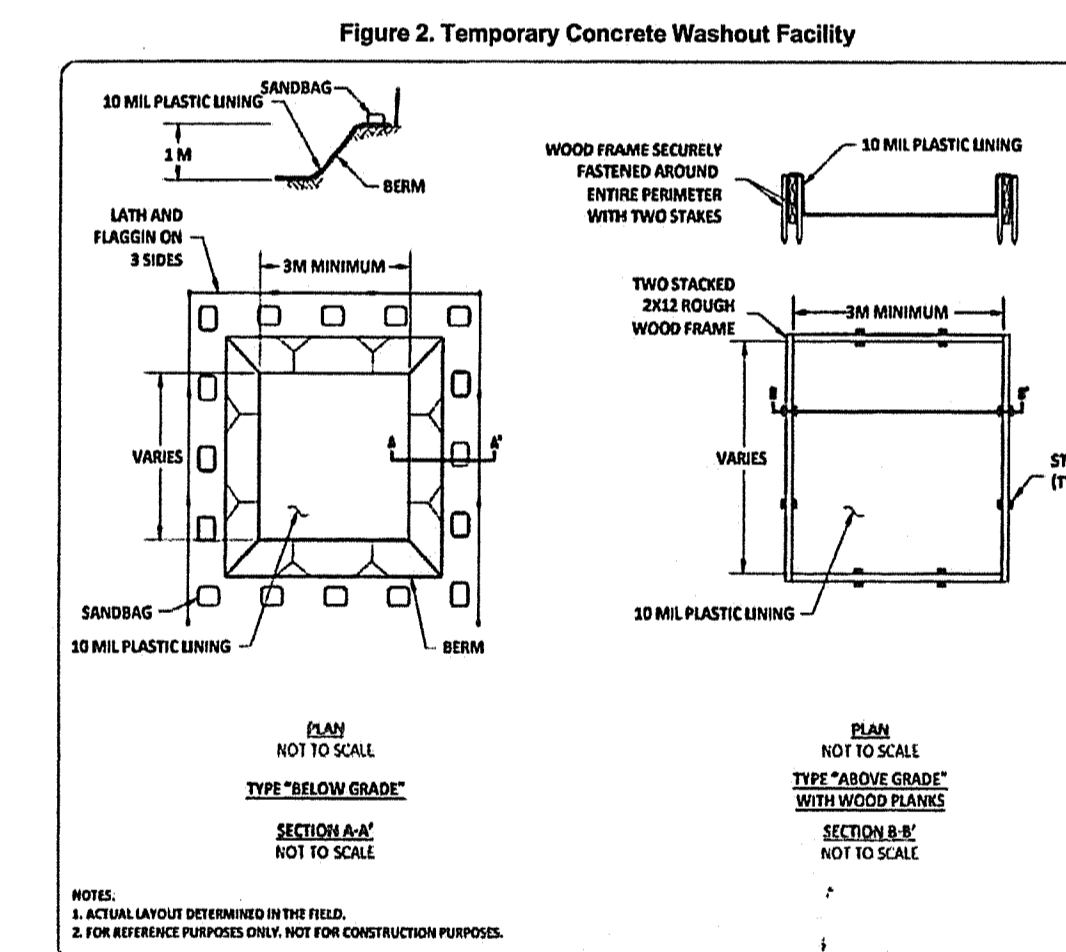
NOTES:

RIP-RAP SHALL CONTINUE ON INSIDE & OUTSIDE OF BASIN SLOPE AT OVERFLOW WEIR LOCATION.

TYPICAL BASIN OVERFLOW WEIR DETAIL  
(N.T.S.)



TYPICAL RIP-RAP OUTLET PROTECTION DETAIL  
(N.T.S.)



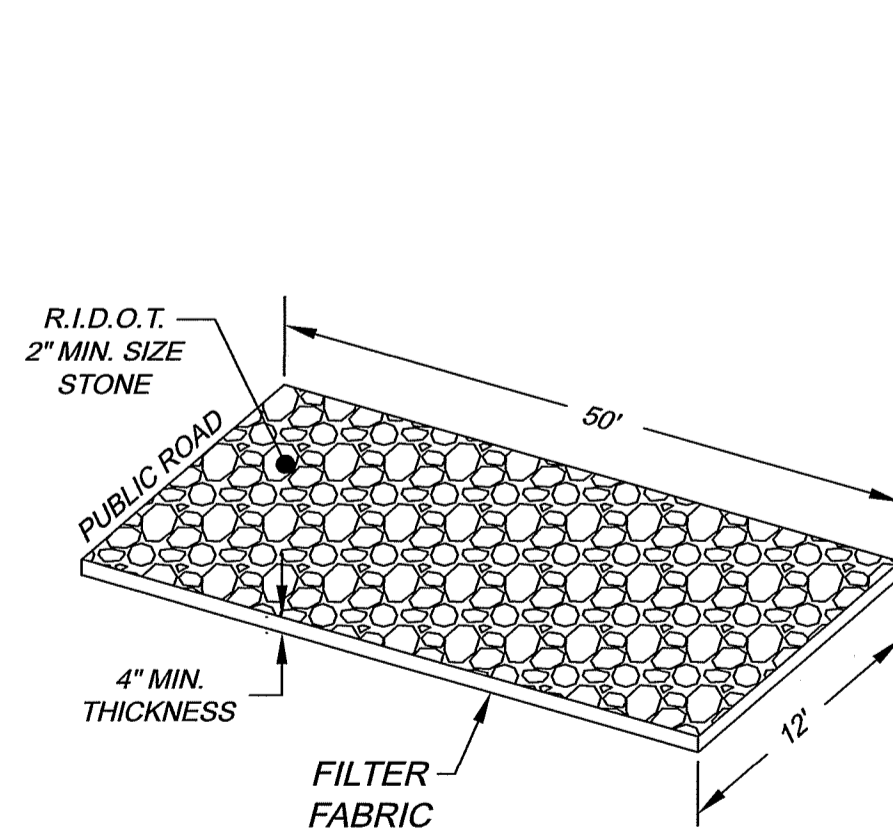
NOTE:  
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.  
2. PER APPLICABLE PURPOSES ONLY. NOT FOR CONSTRUCTION PURPOSES.

(Credit: 2002 Connecticut Guidelines for Soil Erosion and Sediment Control)

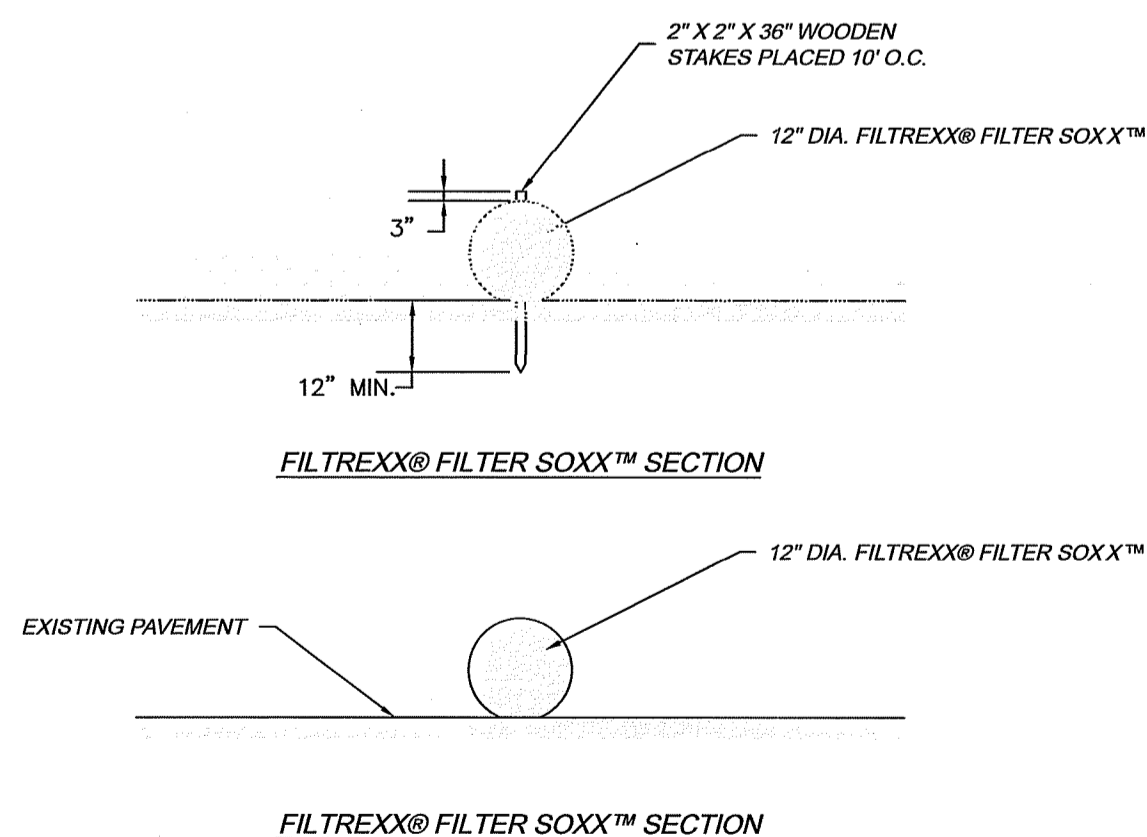
RI Environmental Management  
MAR 01 2022  
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
REVIEWED SITE PLAN APPLICATION #: 20-0292  
DATED: MAR 29 2022  
SEE LETTER OF SAME DATE

*NDMAY B. FREEMAN*



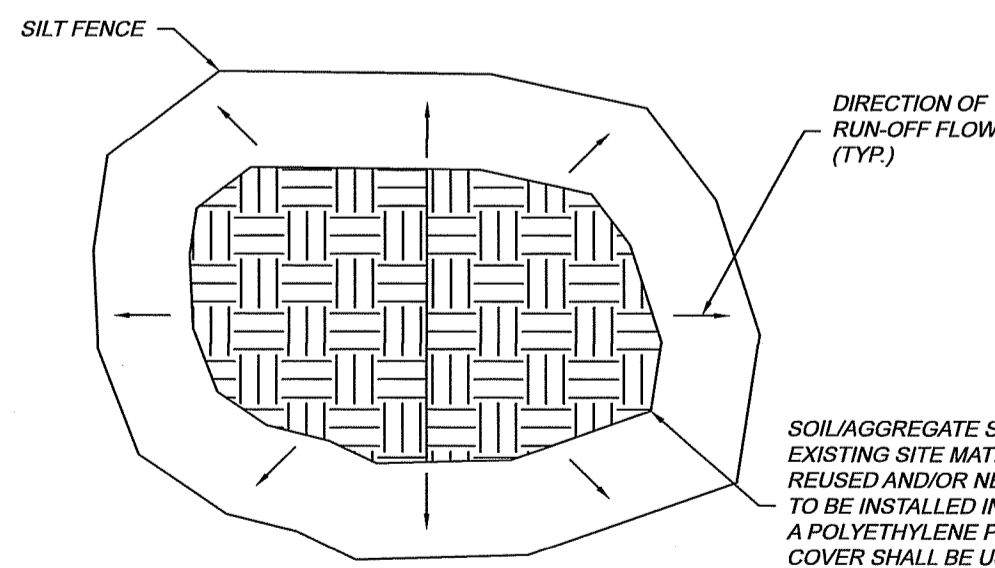
CONSTRUCTION ENTRANCE DETAIL  
(N.T.S.)



NOTES:

1. FILTREXX FILTER SOXX MAY BE USED IN LIEU OF SILT FENCE.
2. CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE FILTREXX PRODUCTS AND COORDINATE INSTALLATION SCHEDULES AND METHODS WITH ENGINEER PRIOR TO PLACEMENT.
3. ALL MATERIAL SHALL MEET FILTREXX SPECIFICATIONS.
4. COMPOST MATERIAL TO BE DISPERSED ON SITE AS DETERMINED BY ENGINEER.

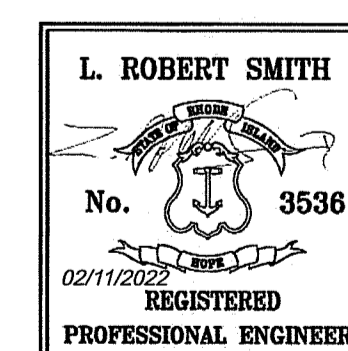
FILTREXX® FILTER SOXX™ DETAIL  
(N.T.S.)



NOTES:

1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
2. SOIL AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.
3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.
4. STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

MATERIAL STOCKPILE DETAIL  
(N.T.S.)



\* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

RIDEM SUBMISSION

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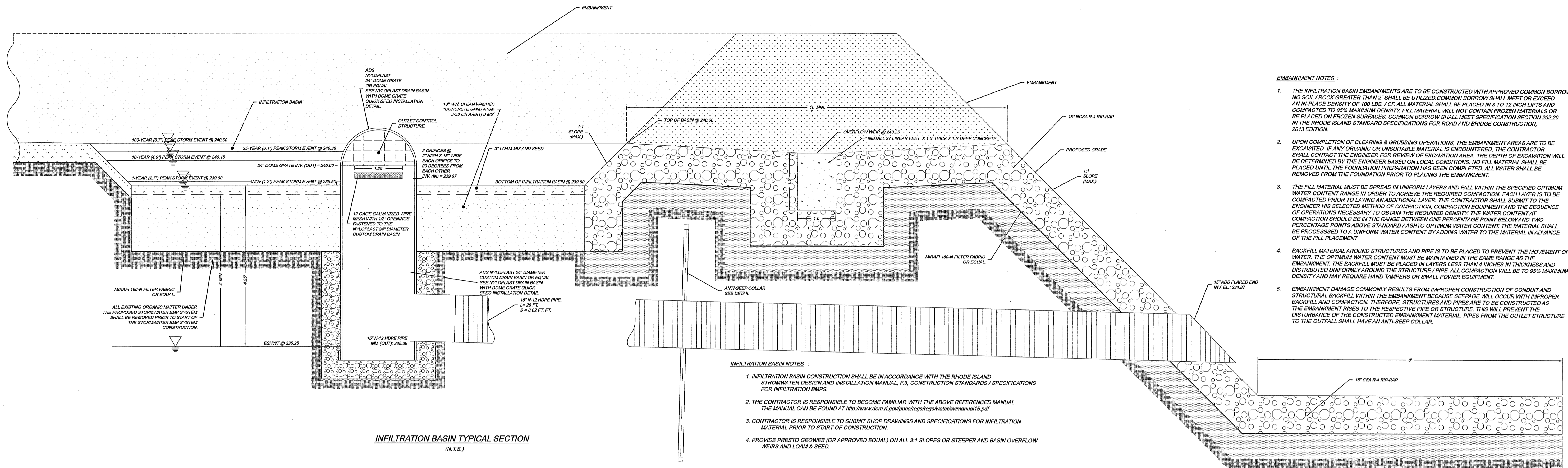
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DATE: 11/30/17  
DRAWN BY: MS  
CHECKED BY: LRS  
FILENAME: 17100\_202108\_rivd  
- 11 of 15 - SHEETS  
DRAWING #: C-9

DETAIL PLAN 1  
PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43  
425 NATE WHIPPLE HIGHWAY  
CUMBERLAND, RHODE ISLAND 02864

CUMBERLAND BEAGLE CLUB  
P.O. BOX 7413  
CUMBERLAND, RHODE ISLAND 02864



46 Sutton Avenue  
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Phone: (401) - 438 - 5775  
Fax: (401) - 438 - 5773  
www.watermanengineering.net



- EMBANKMENT NOTES :**
1. THE INFILTRATION BASIN EMBANKMENTS ARE TO BE CONSTRUCTED WITH APPROVED COMMON BORROW. NO SOIL / ROCK GREATER THAN 2" SHALL BE UTILIZED. COMMON BORROW SHALL MEET OR EXCEED AN IN-PLACE DENSITY OF 100 LBS / CF. ALL MATERIAL SHALL BE PLACED IN 8 TO 12 INCH LIFTS AND COMPACTED TO 95% MAXIMUM DENSITY. FILL MATERIAL WILL NOT CONTAIN FROZEN MATERIALS OR BE PLACED ON FROZEN SURFACES. COMMON BORROW SHALL MEET SPECIFICATION SECTION 202.20 IN THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 EDITION.
  2. UPON COMPLETION OF CLEARING & GRUBBING OPERATIONS, THE EMBANKMENT AREAS ARE TO BE EXCAVATED. IF ANY ORGANIC OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR REVIEW OF EXCAVATION AREA. THE DEPTH OF EXCAVATION WILL BE DETERMINED BY THE ENGINEER BASED ON LOCAL CONDITIONS. NO FILL MATERIAL SHALL BE PLACED UNTIL THE FOUNDATION PREPARATION HAS BEEN COMPLETED. ALL WATER SHALL BE REMOVED FROM THE FOUNDATION PRIOR TO PLACING THE EMBANKMENT.
  3. THE FILL MATERIAL MUST BE SPREAD IN UNIFORM LAYERS AND FALL WITHIN THE SPECIFIED OPTIMUM WATER CONTENT RANGE IN ORDER TO ACHIEVE THE REQUIRED COMPACTION. EACH LAYER IS TO BE COMPACTED PRIOR TO LAYING AN ADDITIONAL LAYER. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER HIS SELECTED METHOD OF COMPACTION, COMPACTION EQUIPMENT AND THE SEQUENCE OF OPERATIONS NECESSARY TO OBTAIN THE REQUIRED DENSITY. THE WATER CONTENT AT COMPACTION SHOULD BE IN THE RANGE BETWEEN ONE PERCENTAGE POINT BELOW AND TWO PERCENTAGE POINTS ABOVE STANDARD AASHTO OPTIMUM WATER CONTENT. THE MATERIAL SHALL BE PROCESSED TO A UNIFORM WATER CONTENT BY ADDING WATER TO THE MATERIAL IN ADVANCE OF THE FILL PLACEMENT.
  4. BACKFILL MATERIAL AROUND STRUCTURES AND PIPE IS TO BE PLACED TO PREVENT THE MOVEMENT OF WATER. THE OPTIMUM WATER CONTENT MUST BE MAINTAINED IN THE SAME RANGE AS THE EMBANKMENT. THE BACKFILL MUST BE PLACED IN LAYERS LESS THAN 4 INCHES IN THICKNESS AND DISTRIBUTED UNIFORMLY AROUND THE STRUCTURE / PIPE. ALL COMPACTION WILL BE TO 95% MAXIMUM DENSITY AND MAY REQUIRE HAND TAMPERS OR SMALL POWER EQUIPMENT.
  5. EMBANKMENT DAMAGE COMMONLY RESULTS FROM IMPROPER CONSTRUCTION OF CONDUIT AND STRUCTURAL BACKFILL WITHIN THE EMBANKMENT BECAUSE SEEPAGE WILL OCCUR WITH IMPROPER BACKFILL AND COMPACTION. THEREFORE, STRUCTURES AND PIPES ARE TO BE CONSTRUCTED AS THE EMBANKMENT RISES TO THE RESPECTIVE PIPE OR STRUCTURE. THIS WILL PREVENT THE DISTURBANCE OF THE CONSTRUCTED EMBANKMENT MATERIAL. PIPES FROM THE OUTLET STRUCTURE TO THE OUTFALL SHALL HAVE AN ANTI-SEEP COLLAR.

- INFILTRATION BASIN NOTES :**
1. INFILTRATION BASIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION MANUAL, E.3, CONSTRUCTION STANDARDS / SPECIFICATIONS FOR INFILTRATION BMPs.
  2. THE CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE ABOVE REFERENCED MANUAL. THE MANUAL CAN BE FOUND AT <http://www.dem.ri.gov/pubs/regs/watermanual15.pdf>
  3. CONTRACTOR IS RESPONSIBLE TO SUBMIT SHOP DRAWINGS AND SPECIFICATIONS FOR INFILTRATION MATERIAL PRIOR TO START OF CONSTRUCTION.
  4. PROVIDE PRESTO GEOWEB (OR APPROVED EQUAL) ON ALL 3:1 SLOPES OR STEEPER AND BASIN OVERFLOW WEIRS AND LOAM & SEED.

INFILTRATION BASIN TYPICAL SECTION (N.T.S.)

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
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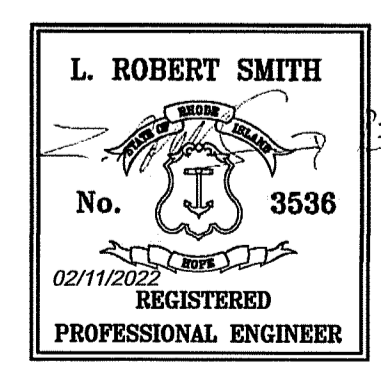
  

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CHECKED BY	LRS
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DRAWING #	C-10

DETAIL PLAN 2  
 PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43  
 425 NATE WHIPPLE HIGHWAY  
 CUMBERLAND, RHODE ISLAND 02864

CUMBERLAND BEAGLE CLUB  
 P.O. BOX 7413  
 CUMBERLAND, RHODE ISLAND 02864



\*SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

RI Environmental Management  
 MAR 01 2022  
 Office of Water Resources

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WATERMAN ENGINEERING CO.  
 CIVIL ENGINEERS & SURVEYORS  
 46 SUTTON AVENUE  
 EAST PROVIDENCE, RI 02914-2096

**Waterman**  
 ENGINEERING COMPANY  
 Engineers & Surveyors - Est. 1894

46 Sutton Avenue  
 East Providence, RI  
 Phone: (401)-438-5775  
 Fax: (401)-438-5773  
 www.watermanengineering.net

# SEEDING FOR PERMANENT VEGETATIVE COVER

- PURPOSE:**
- TO PERMANENTLY STABILIZE DISTURBED OR ERODIBLE SOILS WITH VEGETATION COVER.
  - TO PREVENT THE SEPARATION AND TRANSPORT OF SEDIMENT BY WATER, WIND AND/OR GRAVITY.
- APPLICABILITY:**
- ON SITES WITH DISTURBED OR ERODIBLE SOILS (VEGETATION REMOVED, TOPSOIL DISTURBED OR SOIL COMPACTED).
  - ON SITES WHERE THE SUSPENSION OF SOIL IS EXPECTED TO EXCEED ONE YEAR.
  - ON SITES WHERE SLOPES ARE LESS THAN 100 FEET LONG AND 2:1 OR FLATTER HAVE BEEN DISTURBED.
  - FOLLOWING SOIL PREPARATION AND TOPSOILING AS REQUIRED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
  - NOT FOR BEDROCK CUTS OR FACES.
- NOTE:** FOR SLOPES STEEPER THAN 2:1, SEE THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION), SLOPE STABILIZATION METHODS.
- NOTE:** APPROPRIATE COASTAL SPECIES MUST BE USED IN COASTAL SETTINGS.
- INSTALLATION REQUIREMENTS:**
- INTENDED USE:**
- THE ULTIMATE INTENDED USE AND MAINTENANCE REQUIREMENTS OF THE AREA SHALL BE CONSIDERED WHEN CHOOSING A PERMANENT SEED MIXTURE IDENTIFIED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
  - EROSION CONTROL MEASURES: SEEDING FOR PERMANENT VEGETATIVE COVER, FIGURES 1 & 3.
  - MAINTENANCE MAY BE CONSIDERED AS ACTIVE (AREA TO BE MOWED) AND PASSIVE (AREA NOT TO BE MOWED). ACTIVE MAINTENANCE WILL REQUIRE SOME LEVEL OF MOWING DEPENDING ON THE INTENDED USE WHILE PASSIVE MAINTENANCE WILL REQUIRE NO FURTHER MOWING AND LITTLE, IF ANY MAINTENANCE.
- TIME OF THE YEAR:**
- FOR NON-NATIVE SPECIES THE RECOMMENDED SEEDING DATES ARE APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH SEPTEMBER 30. THE FINAL SEEDING DATE MAY BE EXTENDED 15 DAYS IN NEWPORT COUNTY.
  - FOR NATIVE SPECIES SEEDING DATES FOR BEST RESULTS ARE AUGUST TO SEPTEMBER. SEEDING SEED MATERIALS AND TIMING OF SEEDING IS CRITICAL. IF NATIVE SEEDS ARE TO BE SELECTED AND TIME OF SEEDING IS NOT IDEAL, FOR SOODING, THEN TEMPORARY SEEDING MAY BE DONE TO PROTECT THE SITE UNTIL OPTIMUM SEEDING DATES CAN BE REACHED.
- SITE PREPARATION:**
- INSTALL NEEDED EROSION CONTROL MEASURES.
  - THE SITE'S INTENDED USE, IN CONJUNCTION WITH THE EXISTING SOIL FERTILITY, WILL DETERMINE IF TOPSOIL IS NEEDED. THE LOWER THE SITE IS IN NATURAL FERTILITY AND TEXTURE THE GREATER THE NEED FOR TOPSOIL.
  - PREPARE THE SITE IN ACCORDANCE WITH SOIL PREPARATION AND TOPSOILING AS REQUIRED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
  - PERMANENT SEEDING SHOULD NOT OCCUR ON SLOPES STEEPER THAN 2:1. SLOPES STEEPER THAN 2:1 MAY DEVELOP SHALLOW OR DEEP SURFACE FLOWLINES UNDER SATURATED CONDITIONS. THEREFORE, TO ENSURE SOIL STABILITY AND TO AID SITE INVESTIGATION IS NECESSARY TO DETERMINE IF OTHER MEASURES (I.E. BENCHING, STRUCTURAL) ARE NEEDED PRIOR TO SEEDING.
- SEEDING PREPARATION:**
- LOOSEN THE SOIL TO A DEPTH OF THREE TO FOUR INCHES WITH A SLIGHTLY ROUGH SURFACE. THIS PREPARATION MAY BE ACCOMPLISHED BY RAKING, DISCING, DRAGGING A SECTION OF CHAIN LINK FENCE AND/OR TRAVERSING THE AREA WITH TRACKED EQUIPMENT OVER COMPACTED SOILS SHOULD BE AVOIDED AND TRACKED EQUIPMENT CLEAR MARKS SHALL BE PERPENDICULAR TO THE ANTICIPATED DIRECTION OF SURFACE FLOW.
  - APPLY TOPSOIL, IF NECESSARY, IN ACCORDANCE WITH SOIL PREPARATION AND TOPSOILING AS REQUIRED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
- SOIL AMENDMENTS:**
- APPLY LIMESTONE & FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY SOIL TESTING LABORATORIES AT THE UNIVERSITY OF CONNECTICUT AND THE UNIVERSITY OF MASSACHUSETTS OR OTHER RELIABLE SOURCES.
  - IN GENERAL, IT IS DESIRABLE TO MINIMIZE THE USE OF FERTILIZERS IN AREAS ADJACENT TO ALL WETLANDS AND SURFACE WATERS SO AS TO PREVENT THE EUTROPHICATION OF THESE WATERS.
  - IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE NOT TO EXCEED 30 POUNDS PER 1,000 SQUARE FEET USING FERTILIZER OF THE FOLLOWING:
    - 10 PERCENT AVAILABLE NITROGEN (N)
    - 20 PERCENT AVAILABLE PHOSPHORIC ACID (P)
    - 20 PERCENT AVAILABLE POTASSIUM (K)
  - A pH RANGE OF 6.2 TO 7.0 IS OPTIMAL FOR PLANT GROWTH OF MOST GRASS SPECIES.
  - APPLY ORGANIC LIMESTONE EQUIVALENT TO 50 PERCENT CALCIUM PLUS MANGANESE OXIDE USING RATES GIVEN IN RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).

- SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR PERMANENT VEGETATIVE COVER, FIGURE 2**
- WITH THE EXCEPTION OF HYDROSEEDING, WORK LIME AND FERTILIZER INTO THE SOILS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR CONTAINING TILLAGE AND A REASONABLE SPEED. THE SEEDING IS PREPARED, ALL BUT CLAY OR SILT SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
- AREAS NOT TO BE MOWED CAN BE TRACKED WITH RELATED EARTHMOVING EQUIPMENT PERPENDICULAR TO THE SLOPE (SEE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).

IN AREAS WHERE TEMPORARY EROSION CONTROL BLANKETS ARE TO BE USED THE SEED BED SHALL BE PREPARED IN ACCORDANCE WITH THE BLANKET'S MANUFACTURER'S RECOMMENDATIONS.

INSPECT SEEDBED JUST BEFORE SEEDING. IF SOIL IS COMPACTED, CRUSTED OR HARDENED, SCARIFY THE AREA PRIOR TO SEEDING.

**SEEDING:**

  - SELECTED SEED AT RATES PROVIDED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
  - SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR PERMANENT VEGETATIVE COVER, FIGURE 2. UNIFORMITY BY HAND, CYCLONE SEEDER, OR OTHER MEANS (SLURRY INCLUDING SEED, FERTILIZER) ACHIEVING GOOD SEED TO SOIL CONTACT WHERE RELATIVELY SMALL AREAS ARE TO BE SEEDING WITH A PREPARED, THAT IS, LESS THAN 2 ACRES AND WHERE THE PURCHASE OF LARGE VOLUMES OF SEED ARE UNNECESSARY. SEED MIX NO. 1 IS RECOMMENDED. INCLUDE ALL LEGAL SEED WITH THE CORRECT TYPE AND AMOUNT OF INOCULANT.
  - ONLY USE SEED THAT IS LABELED IN ACCORDANCE WITH THE PROVISIONS OF THE RHODE ISLAND SEED ACT OF 1958 (VOLUME 6, TITLE 2, CHAPTER 8) AND ITS AMENDMENTS.
  - NORMAL SEEDING DEPTH IS FROM 1/8" TO 3/8" INCH. HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON THE SOIL SURFACE WHERE FEASIBLE. DEPTH WHERE EITHER A CULTPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.
  - FROST CRACK SEEDING CAN BE USED TO IMPROVE THE DENSITY OF PERMANENT SEEDING. FROST CRACK SEEDING MUST BE DONE IN LATE WINTER OR EARLY SPRING. SUITABLE WEATHER CONDITIONS ARE FREEZING NIGHTS AND THAWING DAYS WITH LITTLE OR NO SNOW COVER. SEEDING RATES SHOULD BE INCREASED 10% WHEN FROST CRACKING OR HYDROSEEDING IS USED.
  - HYDRAULIC APPLICATION (HYDROSEEDING) IS A SUITABLE METHOD EXCEPT ON SEVERELY STEEP SLOPES. WHEN HYDROSEEDING, A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN TWO INCHES IN DIAMETER. GENERALLY, SLOPES GREATER THAN 2:1 ARE NOT RECOMMENDED WHERE SLOPES EXCEEDING 2:1 ARE UNAVOIDABLE, SUPPLEMENTAL MULCH, MATTING AND/OR STRUCTURAL EROSION CONTROLS ARE INDICATED.
  - LIME SHOULD BE APPLIED AND THOROUGHLY INCORPORATED INTO THE SOIL PRIOR TO SEEDING. FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. USE OF STRAW MULCH HELD WITH ADHESIVE MATERIALS OR 500 LBS PER ACRE OF WOOD FIBER MULCH IS RECOMMENDED FOR PROTECTION FROM SOIL EROSION. WOOD MULCH IS RECOMMENDED. THE RECOMMENDED RATE FOR HYDROMULCH IS 1,500 LBS PER ACRE ON FLATS AND 3,000 LBS PER ACRE ON SLOPES. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.
  - APPLY MULCH ACCORDING TO THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
  - SECTION FOUR: EROSION CONTROL MEASURES: MULCHING.
  - IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
  - SECTION FOUR: EROSION CONTROL MEASURES: MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

- IRRIGATION:**
- IRRIGATION/WATERING MAY BE NECESSARY TO ESTABLISH NEWLY SEEDING AREAS SHOULD DROUGHT CONDITIONS OCCUR AFTER EMERGENCE OF SEED. IRRIGATION/WATERING SHOULD NOT EXCEED THE APPLICATION RATE OF THE SOIL AND RESULT IN EROSION.
- INSPECTION, MAINTENANCE & REMOVAL REQUIREMENTS:**
- LIME ACCORDING TO A SOIL TEST OR AT A MINIMUM EVERY 2 TO 3 YEARS USING A RATE OF ONE TON PER ACRE (50 LBS PER 1,000 SQ. FT.).
  - WHERE GRASSES PREDOMINATE, FERTILIZER IS SO INDICATED BY A SOIL TEST. CUSTOMARY APPLICATIONS ARE BROWNS BROADCASTS OF 500 LBS OF 10-4-14 NPK FERTILIZER OR EQUIVALENT PER ACRE (12.5 LBS PER 1,000 SQ. FT.) AT LEAST 10% OF THE FERTILIZER'S AVAILABLE NITROGEN MUST BE IN A SLOW RELEASING FORM.
  - WHERE LEGUMES PREDOMINATE, FERTILIZER IS SO INDICATED BY A SOIL TEST OR EVERY THREE YEARS, BROADCAST 300 LBS OF 0-20-20 OR EQUIVALENT PER ACRE (7.5 LBS PER 1,000 SQ. FT.).
  - PERMANENT VEGETATIVE COVER SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER (APPROXIMATELY 80% VEGETATIVE SURFACE COVER) CONTROLS SOIL EROSION AND WITHSTANDS SEVERE WEATHER CONDITIONS.

- SEEDING FOR PERMANENT VEGETATIVE COVER**
- FINISHED GRADE
- IDENTIFICATION TAPE
- 1.0'
- 1.0'
- EARTH EXCAVATION
- EARTH ROCK
- TRENCH BACKFILL (REFER TO NOTE 1)
- PROVIDE INITIAL CUSHION OF MATERIAL OVER PIPE SUFFICIENT TO PREVENT DAMAGE DURING BACKFILLING
- COMPACT PIPE BACKFILL (REFER TO NOTE 1)
- COMPACT BEDDING AND BACKFILL TO PIPE SPRING LINE (REFER TO NOTE 1)
- PIPE SPRING LINE
- HALF SECTION IN EARTH
- HALF SECTION IN ROCK
- TRENCH WIDTH

- NOTES:**
- PIPE BEDDING AND BACKFILL TO SPRING LINE SHALL CONSIST OF CRUIED STONE - 3/4" MINUS. PIPE BACKFILL SHALL CONSIST OF CRUSHED STONE (WRAPPED IN FILTER FABRIC) OR GRAVEL (3" MINUS, WITH SIEVE ANALYSIS APPROVED BY ENGINEER), OR OTHER APPROVED MATERIAL. TRENCH BACKFILL SHALL CONSIST OF SUITABLE EXCAVATED MATERIAL OR OTHER APPROVED MATERIAL. ALL BEDDING / BACKFILL TO BE COMPACTED TO 95% DRY DENSITY, MODIFIED PROCTOR METHOD.
  - ALL TRENCH EXCAVATION AND ANY SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND OSHA REGULATIONS.
  - MINIMUM TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE AT BELL PLUS 12". MAXIMUM TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE AT BELL PLUS 24".

- DRAINAGE TRENCH DETAIL (N.T.S.)**
- (1) INTEGRATED DUCTILE IRON GRATE TO MATCH BASIN O.D.
- (2) VARIABLE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN MANUFACTURING REG. SAME AS MIN. SUMP)
- (3) ADAPTER ANGLES VARIABLE 0° - 30° ACCORDING TO PLANS
- (4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 30" FOR CORRUGATED HDPE (SINGLE WALL), N-12 HP, PVC SENDER (EX: SOR 33), PVC DRY EX: SCH 40, PVC DRINKS, CORRUGATED & RIBBED PVC
- (5) VARIABLE SUMP DEPTH ACCORDING TO PLANS (2" MIN ON 0° - 20°, 4" MIN ON 30° & 12" MIN ON 30° BASED ON MANUFACTURING REG.)
- WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)
- THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS 1, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2221. SEEDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2221.

- 1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 (DOME DESIGN).
- 2 - 8" & 12" DOME GRATES FIT INTO THE DRAIN BASINS WITH THE USE OF A PLYWOOD TOP. SEE DRAWING NO. 2011-HOURS.
- 3 - DRAINAGE TO BE CUSTOMER PROVIDED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASIN OVER 8" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 2011-HOURS.
- 4 - DRAINAGE CONNECTION TUBING JOINT TIGHTNESSES SHALL CONFORM TO ASTM D635 FOR CORRUGATED HDPE (SINGLE WALL) OR ASTM D635 FOR CORRUGATED HDPE (SINGLE WALL), N-12 HP, PVC SENDER (P-30).
- 5 - ADAPTERS CAN BE ORDERED ON AN ANGLE OF 30° TO OBTAIN A MINIMUM ANGLE BETWEEN ADAPTERS. SEE DRAWING NO. 2011-D022.
- 6 - 8" - 30" DOME GRATES HAVE NO LANDING.

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- DRAWN BY: ERC
- DATE: 03-25-10
- REVIEWED BY: NMI
- DATE: 06-12-10
- DWG NO.: 709-110-397
- REV: E
- 310 VERONA AVE  
BIRMGHAM, GA 30318  
PH: (770) 833-2443  
FAX: (770) 832-3489  
www.nyloplast.us.com
- REGISTERED PROFESSIONAL ENGINEER

- RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**
- OFFICE OF WATER RESOURCES**
- FRESHWATER WETLANDS PROGRAM**
- REVIEWED SITE PLAN APPLICATION #: 20-0292
- DATE: MAR 29 2022
- SEE LETTER OF SAME DATE
- Nancy L. Freeman*

- RIDEM SUBMISSION**
- | NO. | DATE       | REVISION                              | CHECKED BY |
|-----|------------|---------------------------------------|------------|
| 1   | 02/11/2022 | REVISED PER RIDEM 11/10/2021 COMMENTS | RSL        |
- PROJECT NO.: 17-100
- SCALE: AS NOTED
- DATE: 11/30/17
- DRAWN BY: MS
- CHECKED BY: LRS
- FILENAME: 17100\_2015tbl\_rms.dwg
- 13 OF 15 SHEETS
- DRAWING #: C-11

- DETAIL PLAN 3**
- PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43**
- 425 NATE WHIPPLE HIGHWAY**
- CUMBERLAND, RHODE ISLAND 02864**
- CUMBERLAND BEAGLE CLUB**
- P.O. BOX 7413**
- CUMBERLAND, RHODE ISLAND 02864**

- L. ROBERT SMITH**
- No. 3536
- 02/11/2022
- REGISTERED PROFESSIONAL ENGINEER
- SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN
- RI Environmental Management
- MAR 01 2022
- Office of Water Resources
- Waterman ENGINEERING COMPANY**
- Engineers & Surveyors - Est. 1894
- 46 Sutton Avenue  
East Providence, RI  
Phone: (401) - 438 - 5775  
Fax: (401) - 438 - 5773  
www.watermanengineering.net

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CIVIL ENGINEERS & SURVEYORS  
46 SUTTON AVENUE  
EAST PROVIDENCE, RI 02914-2696

# SEEDING FOR TEMPORARY VEGETATIVE COVER

- PURPOSE:**
- TO STABILIZE THE SOIL WITH VEGETATION FOR ONE TO 12 MONTHS.
  - TO REDUCE DAMAGE FROM WIND AND/OR WATER EROSION & SEDIMENTATION UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- APPLICABILITY:**
- STABILIZING DISTURBED CONSTRUCTION AREAS WHICH HAVE BEEN INACTIVE FOR OVER 14 DAYS.
  - ON EXPOSED SOILS THAT HAVE THE POTENTIAL FOR PRODUCING SEDIMENT & CAUSING ON OR OFF-SITE DAMAGES. SUCH AREAS MAY INCLUDE ROAD MARKS, STOCKPILES, BORROW PITS AS WELL AS OTHER UNSTABLE OR DISTURBED AREAS.
  - FOLLOWING SOIL PREPARATION AND TOPSOILING AS REQUIRED IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
  - NOT FOR STABILIZING AREAS THAT ARE TO BE LEFT ACTIVE FOR MORE THAN ONE YEAR.

- INSTALLATION REQUIREMENTS:**
- SITE PREPARATION:**
- INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS GRADE AS NEEDED.
- SEEDING PREPARATION:**
- LOOSEN THE SOIL TO A DEPTH OF THREE TO FOUR INCHES WITH A SLIGHTLY ROUGH SURFACE. THIS PREPARATION MAY BE ACCOMPLISHED BY RAKING, DISCING, DRAGGING A SECTION OF CHAIN LINK FENCE AND/OR TRAVERSING THE AREA WITH TRACKED EQUIPMENT OVER COMPACTED SOILS SHOULD BE AVOIDED AND TRACKED EQUIPMENT CLEAR MARKS SHALL BE PERPENDICULAR TO THE ANTICIPATED DIRECTION OF SURFACE FLOW.
- SOIL AMENDMENTS:**
- APPLY LIMESTONE & FERTILIZER ACCORDING TO SOIL RECOMMENDATIONS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF RHODE ISLAND SOIL TESTING LABORATORY OR OTHER RELIABLE SOURCES.
  - A pH RANGE OF 6.2 TO 7.0 IS OPTIMAL FOR PLANT GROWTH OF MOST GRASS SPECIES.
  - IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING FERTILIZER OF THE FOLLOWING:
    - 10 PERCENT AVAILABLE NITROGEN (N)
    - 10 PERCENT AVAILABLE PHOSPHORIC ACID (P)
    - 10 PERCENT AVAILABLE POTASSIUM (K)
  - FERTILIZER SHOULD ALWAYS BE APPLIED TO MEET THE REQUIREMENTS OF THE SITE. THE ADDITION OF SURPLUS NITROGEN MAY CAUSE POLLUTION OF DRINKING WATER AND SALINITY ECOSYSTEMS.
  - NUTRIENTS SHOULD BE PRIMARILY SLOW RELEASE WHETHER SYNTHETIC OR ORGANIC, AND IF THE SITE IS NOT TO BE FERTILIZED AFTER ESTABLISHMENT THEN 3-4 LBS SLOW RELEASE NITROGEN PER 1,000 SQUARE FEET IS NECESSARY TO PREVENT NUTRIENT DEFICIENCY AND PLANT DEATH AS WELL AS TO PREVENT NITROGEN LOSS. SLOW RELEASE NITROGENS ARE ALSO KNOWN AS WATER-INSOLUBLE NITROGEN, CLASS A BIOSOLIDS SHOULD BE CONSIDERED AS A SOURCE OF INEXPENSIVE SLOW-RELEASE NUTRIENTS FOR AREAS WITH MINIMAL PESTICIDE TRAFFIC.
  - SEE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
  - SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR TEMPORARY VEGETATIVE COVER, FIGURE 1 FOR CALCULATING THE FERTILIZER APPLICATION RATES.

- SEEDING:**
- SELECT SEED USING RECOMMENDATION GIVEN IN THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
  - SECTION FOUR: EROSION CONTROL MEASURES: SEEDING FOR TEMPORARY VEGETATIVE COVER, FIGURE 2.
  - ONLY USE SEED THAT IS LABELED IN ACCORDANCE WITH THE PROVISIONS OF THE RHODE ISLAND SEED ACT OF 1958 (VOLUME 6, TITLE 2, CHAPTER 8) AND ITS AMENDMENTS.
  - APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY SEED FERTILIZER) ACHIEVING GOOD SEED TO SOIL CONTACT.
  - HYDROSEEDINGS WHICH INCLUDE MULCH MAY BE LEFT ON THE SOIL SURFACE.
  - SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN HYDROSEEDING.
- MULCHING:**
- APPLY MULCH ACCORDING TO THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL (SESC) HANDBOOK (LATEST EDITION).
  - SECTION FOUR: EROSION CONTROL MEASURES: MULCHING.

- IRRIGATION:**
- IRRIGATION/WATERING MAY BE NECESSARY TO ESTABLISH NEWLY SEEDING AREAS SHOULD DROUGHT CONDITIONS OCCUR AFTER EMERGENCE OF SEED. IRRIGATION/WATERING SHOULD NOT EXCEED THE APPLICATION RATE OF THE SOIL AND RESULT IN EROSION.
- INSPECTION, MAINTENANCE & REMOVAL REQUIREMENTS:**
- SEEDING AREAS SHOULD BE INSPECTED AT LEAST ONCE PER WEEK & WITHIN 24 HOURS FOLLOWING A PRECIPITATION EVENT WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER FOR EROSION AND SEED AND MULCH MOVEMENT.
  - WHERE EROSION HAS OCCURRED OR SEED HAS MOVED, THE CAUSE OF THE FAILURE SHOULD BE IDENTIFIED AND THE AREA RESEEDED AND REMULCHED. IF THE WIND WAS THE CAUSE OF THE MOVEMENT, THE EROSION DAMAGE SHOULD BE REPAIRED (RESEED AND REMULCH) AND SUPPLEMENTED WITH MULCH ANCHOR. SHOULD CONCENTRATED WIND BE THE CAUSE OF FAILURE, ADDITIONAL MEASURES TO CONTROL WATER AND SEDIMENT MOVEMENT SHOULD BE INSTALLED. THE EROSION DAMAGE REPAIRED, AND THE AREA RESEEDED WITH THE NEW MULCH AND ANCHOR SHOULD BE MONITORED FOR EROSION CONTROL. CAUTION SHOULD BE USED WHEN USING SYNTHETIC PRODUCTS AS THEY MAY BE DIFFICULT TO REMOVE PRIOR TO THE ESTABLISHMENT OF THE PERMANENT VEGETATIVE COVER.
  - PERMANENT VEGETATIVE COVER SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER (APPROXIMATELY 80% VEGETATIVE SURFACE COVER) CONTROLS SOIL EROSION AND WITHSTANDS SEVERE WEATHER CONDITIONS.

- SEEDING FOR TEMPORARY VEGETATIVE COVER**
- FINISHED GRADE
- IDENTIFICATION TAPE
- 1.0'
- 1.0'
- EARTH EXCAVATION
- EARTH ROCK
- TRENCH BACKFILL (REFER TO NOTE 1)
- PROVIDE INITIAL CUSHION OF MATERIAL OVER PIPE SUFFICIENT TO PREVENT DAMAGE DURING BACKFILLING
- COMPACT PIPE BACKFILL (REFER TO NOTE 1)
- COMPACT BEDDING AND BACKFILL TO PIPE SPRING LINE (REFER TO NOTE 1)
- PIPE SPRING LINE
- HALF SECTION IN EARTH
- HALF SECTION IN ROCK
- TRENCH WIDTH

- NOTES:**
- PIPE BEDDING AND BACKFILL TO SPRING LINE SHALL CONSIST OF CRUIED STONE - 3/4" MINUS. PIPE BACKFILL SHALL CONSIST OF CRUSHED STONE (WRAPPED IN FILTER FABRIC) OR GRAVEL (3" MINUS, WITH SIEVE ANALYSIS APPROVED BY ENGINEER), OR OTHER APPROVED MATERIAL. TRENCH BACKFILL SHALL CONSIST OF SUITABLE EXCAVATED MATERIAL OR OTHER APPROVED MATERIAL. ALL BEDDING / BACKFILL TO BE COMPACTED TO 95% DRY DENSITY, MODIFIED PROCTOR METHOD.
  - ALL TRENCH EXCAVATION AND ANY SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND OSHA REGULATIONS.
  - MINIMUM TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE AT BELL PLUS 12". MAXIMUM TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE AT BELL PLUS 24".

- DRAINAGE TRENCH DETAIL (N.T.S.)**
- (1) INTEGRATED DUCTILE IRON GRATE TO MATCH BASIN O.D.
- (2) VARIABLE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN MANUFACTURING REG. SAME AS MIN. SUMP)
- (3) ADAPTER ANGLES VARIABLE 0° - 30° ACCORDING TO PLANS
- (4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 30" FOR CORRUGATED HDPE (SINGLE WALL), N-12 HP, PVC SENDER (EX: SOR 33), PVC DRY EX: SCH 40, PVC DRINKS, CORRUGATED & RIBBED PVC
- (5) VARIABLE SUMP DEPTH ACCORDING TO PLANS (2" MIN ON 0° - 20°, 4" MIN ON 30° & 12" MIN ON 30° BASED ON MANUFACTURING REG.)
- WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)
- THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS 1, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2221. SEEDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2221.

- 1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 (DOME DESIGN).
- 2 - 8" & 12" DOME GRATES FIT INTO THE DRAIN BASINS WITH THE USE OF A PLYWOOD TOP. SEE DRAWING NO. 2011-HOURS.
- 3 - DRAINAGE TO BE CUSTOMER PROVIDED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASIN OVER 8" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 2011-HOURS.
- 4 - DRAINAGE CONNECTION TUBING JOINT TIGHTNESSES SHALL CONFORM TO ASTM D635 FOR CORRUGATED HDPE (SINGLE WALL) OR ASTM D635 FOR CORRUGATED HDPE (SINGLE WALL), N-12 HP, PVC SENDER (P-30).
- 5 - ADAPTERS CAN BE ORDERED ON AN ANGLE OF 30° TO OBTAIN A MINIMUM ANGLE BETWEEN ADAPTERS. SEE DRAWING NO. 2011-D022.
- 6 - 8" - 30" DOME GRATES HAVE NO LANDING.

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- DRAWN BY: ERC
- DATE: 03-25-10
- REVIEWED BY: NMI
- DATE: 06-12-10
- DWG NO.: 709-110-397
- REV: E
- 310 VERONA AVE  
BIRMGHAM, GA 30318  
PH: (770) 833-2443  
FAX: (770) 832-3489  
www.nyloplast.us.com
- REGISTERED PROFESSIONAL ENGINEER

- RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**
- OFFICE OF WATER RESOURCES**
- FRESHWATER WETLANDS PROGRAM**
- REVIEWED SITE PLAN APPLICATION #: 20-0292
- DATE: MAR 29 2022
- SEE LETTER OF SAME DATE
- Nancy L. Freeman*

- RIDEM SUBMISSION**
- | NO. | DATE       | REVISION                              | CHECKED BY |
|-----|------------|---------------------------------------|------------|
| 1   | 02/11/2022 | REVISED PER RIDEM 11/10/2021 COMMENTS | RSL        |
- PROJECT NO.: 17-100
- SCALE: AS NOTED
- DATE: 11/30/17
- DRAWN BY: MS
- CHECKED BY: LRS
- FILENAME: 17100\_2015tbl\_rms.dwg
- 13 OF 15 SHEETS
- DRAWING #: C-11

- DETAIL PLAN 3**
- PORTION OF ASSESSORS PLAT 40, LOTS 7 & 43**
- 425 NATE WHIPPLE HIGHWAY**
- CUMBERLAND, RHODE ISLAND 02864**
- CUMBERLAND BEAGLE CLUB**
- P.O. BOX 7413**
- CUMBERLAND, RHODE ISLAND 02864**

- L. ROBERT SMITH**
- No. 3536
- 02/11/2022
- REGISTERED PROFESSIONAL ENGINEER
- SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN
- RI Environmental Management
- MAR 01 2022
- Office of Water Resources
- Waterman ENGINEERING COMPANY**
- Engineers & Surveyors - Est. 1894
- 46 Sutton Avenue  
East Providence, RI  
Phone: (401) - 438 - 5775  
Fax: (401) - 438 - 5773  
www.watermanengineering.net