MAJOR LAND DEVELOPMENT PRELIMINARY PLAN APPLICATION

1200 & 1202 HOPE STREET

Assessors Map 103, Parcel 2 & 14

Bristol, Rhode Island

MARCH 6, 2023 REVISED: MARCH 15, 2023

CIVIL ENGINEER

LAND DEVELOPMENT ENGINEERING & CONSULTING, LLC. 680 AQUIDNECK AVENUE MIDDLETOWN, RI 02842 (401) 354-2050

LAND SURVEYOR

LAND DEVELOPMENT ENGINEERING & CONSULTING, LLC. 680 AQUIDNECK AVENUE MIDDLETOWN, RI 02842 (401) 354-2050

LANDSCAPE ARCHITECT

VERDE DESIGN + HORTICULTURE 6 DEBLOIS STREET NEWPORT, RI 02840 (401) 619-0562

CURRENT OWNER

M1 1200 HOPE ST., LLC 133 TOWERHILL RD. SUITE 1, WAKEFIELD RI 02879 1202 HOPE ST. INVESTMENTS, LLC. P.O. BOX 246, WARREN RI 02885

PERMIT REFERENCES

DOT APPROVAL: PHYSICAL ALTERATIONS PERMIT APPLICATION# 190510 **RIDEM APPROVAS:** WGC 19-100, FWW# 19-0149 UIC# 001920, RIR# 101910

ALL WORK WITHIN THE STATE'S ROW WILL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, Amended August 2013 and STANDARD DETAILS, June 15, 1998, as amended by revision.



LOCUS MAP

PLAN INDEX

<u>TITLE</u>	SHEET NO.
COVER SHEET	1
EXISTING CONDITIONS PLAN	2
LOTTING PLAN	3
SITE LAYOUT PLAN	4
GRADING & DRAINAGE PLAN	5
UTILITY PLAN	6
EROSION CONTROL PLAN	7
LANDSCAPING PLAN	8
CONSTRUCTION DETAILS	9

<u>MEMBER</u>				<u>D</u> .
DI ANNINIC	ROARD	SIGNATURE:	ς	

Land Development Engineering & Consulting, LLC	
207 High Point Avenue, Unit 6 Portsmouth, RI 02871	
T:401-354-2050 F: 401-369-9775 WWW.SDE-LDEC.COM	

									MER	APPROVEI
									MODIFIED DRIVEWAY LOCATIONS	DESCRIPTION
									3/15/2023	DATE
									1.	NO.
			Р	LAN	RE	VIS	ION	S		
DATE: MARCH 6, 2023										
DRAWN BY: DESIGN BY: CHECK BY: SJE SJE MER										
PF	PROJECT NO. 22024									

PERMITTING PROFESSIONAL ENGINEER (CIVIL)

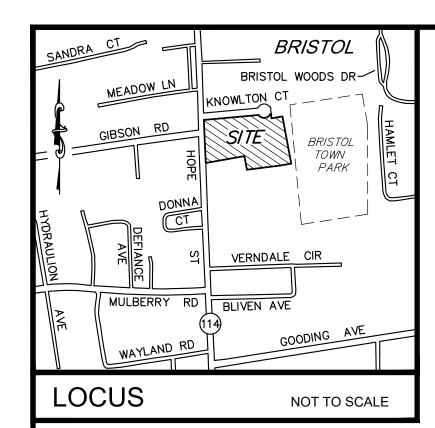
VELOPMENT LAND

DRAWING TITLE:

COVER

NTS

OF **9**



NOTES:

- 1. EXISTING CONDITIONS INFORMATION WAS COMPILED FROM AN ACTUAL ON THE GROUND SURVEY PERFORMED BY LAND DEVELOPMENT ENGINEERING & CONSULTING, LLC BETWEEN AUGUST 3, 2018 AND APRIL 18, 2022.
- 2. ELEVATIONS ARE REFERENCED TO NAVD88.
- 3. THE SITE IS NOT LOCATED WITHIN ANY SPECIAL FLOOD HAZARD AREAS AS DETERMINED FROM THE TOWN OF BRISTOL FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 445393 0011 H (MAP EFFECTIVE DATE JULY 7, 2014).
- 4. THIS PLAN AND ANY ACCOMPANYING CERTIFICATIONS DO NOT CONSTITUTE A CERTIFICATION OF TITLE TO THE PROPERTY DISPLAYED HEREON. THE OWNER OF LOCUS AND ABUTTING PROPERTIES ARE SHOWN ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.
- 5. EXISTING UTILITY LINES SHOWN ON THIS PLAN ARE FROM AVAILABLE INFORMATION AND ARE APPROXIMATE LOCATIONS. THERE MAY BE EXISTING LINES OTHER THAN THOSE INDICATED. LAND DEVELOPMENT ENGINEERING & CONSULTING, LLC ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE PROPER PUBLIC UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED.
- 6. THE DELINEATION OF WETLAND FLAGS WF—A1 THROUGH WF—A6 WAS PERFORMED BY NATURAL RESOURCE SERVICES, INC. ON MARCH 15, 2019 AND WETLAND FLAGS A-3 THROUGH A-16 ARE AS SHOWN ON AN APPROVED MASTER SUBDIVISION PLAN BY SITE ENGINEERING, INC.
- . MAP 103, PARCEL 14 (SHOWN AS LOT 5 OF PLAN REFERENCE 1 BELOW) IS SUBJECT TO THE FOLLOWING CONDITIONS: NO PART OF LOT 5 AS SHOWN ON THE REFERENCED SUBDIVISION PLAN MAY BE DEVELOPED WITH DWELLING UNITS. SUBJECT TO RECEIVING FUTURE APPROVAL FROM THE PLANNING BOARD, PART OF LOT 5 MAY POSSIBLY BE USED FOR ACCESS, PARKING OR OPEN SPACE FOR ABUTTING PROPERTY AND PROVIDED FURTHER THAT NO PART OF THIS SUBDIVISION MAY BE USED IN THE DENSITY CALCULATION FOR ANY OTHER PROPERTY. THIS CONDITION SHALL BE A CONDITION OF THE DECISION TO BE ALSO PLACED ON THE PLANS AND SHALL ALSO BE A DEED RESTRICTION RECORDED IN THE LAND EVIDENCE RECORDS RUNNING TO THE BENEFIT OF THE TOWN.

PLAN REFERENCES:

- 1. "PRELIMINARY PLAN FOR ELIZABETH COURT, AP 103 LOT 14. HOPE STREET IN BRISTOL. RHODE ISLAND", PREPARED FOR 1202 HOPE STREET INVESTMENT, LLC BY PRINCIPE COMPANY, INC., DATED APRIL 12, 2021 (REV. 7/27/21) WHICH IS TO BE RECORDED AT THE TOWN OF BRISTOL LAND EVIDENCE RECORDS OFFICE.
- 2. "EXISTING CONDITIONS PLAN OF LAND, 1202 HOPE STREET, BRISTOL, RI", PREPARED FOR JOSEPH GARIES BY TURNING POINT SURVEY COMPANY, INC., DATED AUGUST, 5, 2020.

CURRENT OWNE	TRS AND APPLICANTS
MI 1200 HOPE ST, LLC PO BOX 572 WARREN, RI 02885	1202 HOPE STREET INVESTMENTS, LLC PO BOX 246 WARREN, RI 02885
TITLE REFERENCE: DEED BK.2173/PG.176	TITLE REFERENCE: DEED BK.1990/PG.179
SITE LOCATION: 1200 HOPE STREET BRISTOL, RHODE ISLAND	SITE LOCATION: 1202 HOPE STREET BRISTOL, RHODE ISLAND
<u>ASSESSORS REFERENCE:</u> MAP 103 PARCEL 2	ASSESSORS REFERENCE: MAP 103 PARCEL 14

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 BETWEEN AUGUST 3, 2018 AND MARCH 7, 2023, AS FOLLOWS:

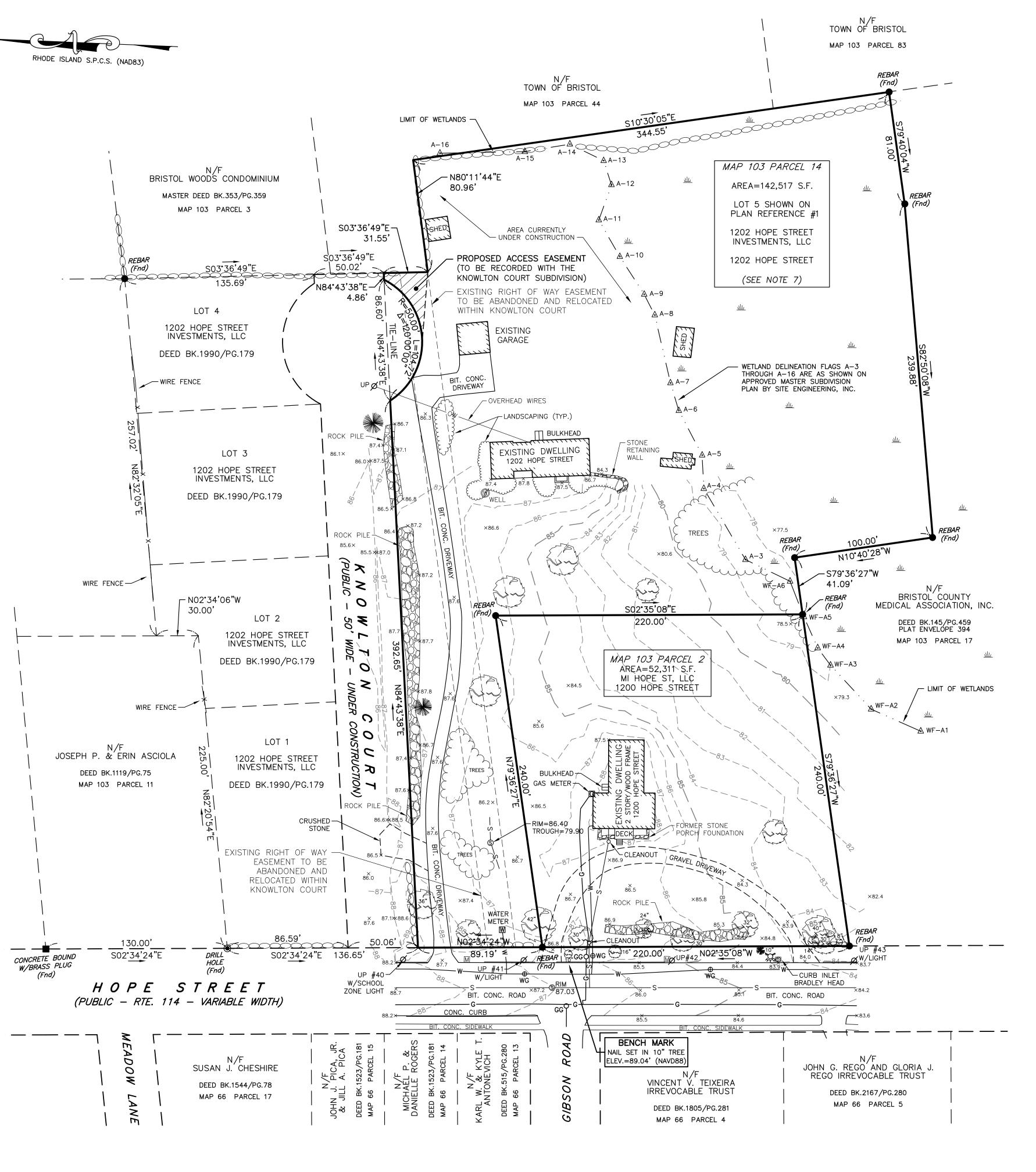
COMPREHENSIVE BOUNDARY SURVEY DATA ACCUMULATION SURVEY TOPOGRAPHIC SURVEY ACCURACY

CLASS III

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS

TO PROVIDE AN EXISTING CONDITIONS PLAN TO ACCOMPANY AN ADMINISTRATIVE SUBDIVISION FILING. BY belief h

ROBERT L. MASON, PROFESSIONAL LAND SURVEYOR, LICENSE NO. 2001, COA NO. LS.000A533-COA



SCALE: 1 INCH = 40 FEET

<u>LEGEND</u>

DRAIN MANHOLE FIRE HYDRANT GAS GATE MAIL BOX SEWER MANHOLE

SPOT ELEVATION STONE WALL

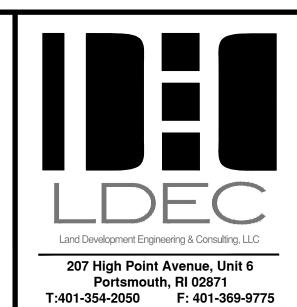
TREE . TREE LINE UTILITY POLE WATER GATE WETLANDS WETLAND FLAG

————— UNDERGROUND GAS ——s— UNDERGROUND SEWER

RESIDENTIAL 10 (R-10) ZONING DISTRICT REQUIREMENT REGULATION 10,000 S.F. MIN. LOT AREA LOT FRONTAGE FRONT SETBACK SIDE SETBACK 15' REAR SETBACK MAX. BUILDING HEIGHT MAX. LOT COVERAGE

1200 HOPE STREET (MAP 103, PARCEL 2) IS LOCATED IN THE BRISTOL HISTORIC DISTRICT

PLANNING BOARD/DESIGNEE SIGNATURES

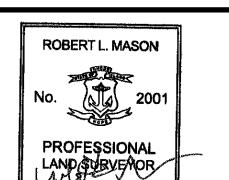


			WW	/W.S	SDE	-LDI	EC.C	OM			
								RLM	RLM	RLM	
								REVISIONS PER TOWN REVIEW COMMENTS	8/23/22 REVISIONS PER TOWN REVIEW COMMENTS	8/23/22 UPDATE CURRENT OWNERS	
								3/7/23	8/23/22	8/23/22	
								3	2	1	0
			Р	LAN	I RE	VIS	ION	S			
D	ATE	:	A		L 2			2			
DR		N B` _M	Y:	CC	OMF RL	S. E M	3 Y :			K BY	

PROJECT NO. 22024

ISSUED FOR:

APPROVAL



PROFESSIONAL LAND SURVEYOR **UBDIVISION**

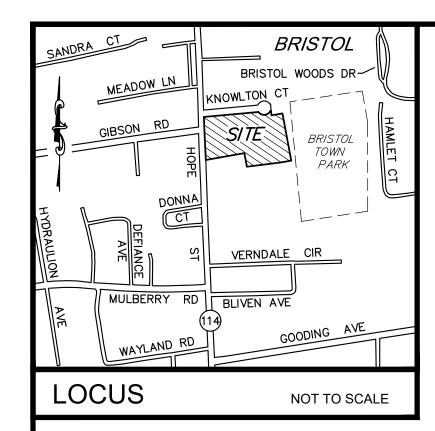
S OD **ADMINISTRATIVE** 1200 8 BRIS⁻

DRAWING TITLE:

EXISTING CONDITIONS

1" = 40' SHEET NO.

2 of 9



<u>NOTES:</u>

1. THE PURPOSE OF THIS PLAN IS TO SUBDIVIDE THE EXISTING TWO PARCELS (MAP 103, PARCELS 2 & 14) TO CREATE LOTS 2 AND 14 AS SHOWN. THIS PLAN REPRESENTS A RE-SUBDIVISION OF EXISTING LOTS WHERE NO ADDITIONAL LOTS HAVE BEEN CREATED.

RHODE ISLAND S.P.C.S. (NAD83)

BRISTOL WOODS CONDOMINIUM

MASTER DEED BK.353/PG.359

MAP 103 PARCEL 3

- 2. PARCEL A BY ITSELF IS NOT TO BE CONSIDERED AS A BUILDABLE LOT.
- 3. PARCEL A (TAKEN FROM MAP 103 PARCEL 14) IS TO BE CONVEYED TO AND COMBINED WITH ABUTTING LAND OF MI 1200 HOPE ST, LLC TO CREATE LOT 2 (HAVING A TOTAL LOT AREA OF 76,705 S.F) AS SHOWN.
- 4. THE SITE IS NOT LOCATED WITHIN ANY SPECIAL FLOOD HAZARD AREAS AS DETERMINED FROM THE TOWN OF BRISTOL FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 445393 0011 H (MAP EFFECTIVE DATE JULY 7, 2014).
- 5. THIS PLAN AND ANY ACCOMPANYING CERTIFICATIONS DO NOT CONSTITUTE A CERTIFICATION OF TITLE TO THE PROPERTY DISPLAYED HEREON. THE OWNER OF LOCUS AND ABUTTING PROPERTIES ARE SHOWN ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.
- . THE DELINEATION OF WETLAND FLAGS WF-A1 THROUGH WF-A6 WAS PERFORMED BY NATURAL RESOURCE SERVICES, INC. ON MARCH 15, 2019 AND WETLAND FLAGS A-3 THROUGH A-16 ARE AS SHOWN ON AN APPROVED MASTER SUBDIVISION PLAN BY SITE ENGINEERING, INC.
- . PARCEL A (BEING A PORTION OF MAP 103, PARCEL 14 AND ALSO BEING A PORTION OF LOT 5 OF PLAN REFERENCE 1 BELOW) IS SUBJECT TO THE FOLLOWING CONDITIONS PERTAINING TO LOT 5: NO PART OF LOT 5 AS SHOWN ON THE REFERENCED SUBDIVISION PLANS MAY BE DEVELOPED WITH DWELLING UNITS. SUBJECT TO RECEIVING FUTURE APPROVAL FROM THE PLANNING BOARD, PART OF LOT 5 MAY POSSIBLY BE USED FOR ACCESS, PARKING OR OPEN SPACE FOR ABUTTING PROPERTY AND PROVIDED FURTHER THAT NO PART OF THIS SUBDIVISION MAY BE USED IN THE DENSITY CALCULATION FOR ANY OTHER PROPERTY. THIS CONDITION SHALL BE A CONDITION OF THE DECISION TO BE ALSO PLACED ON THE PLANS AND SHALL ALSO BE A DEED RESTRICTION RECORDED IN THE LAND EVIDENCE RECORDS RUNNING TO THE BENEFIT OF THE TOWN.

PLAN REFERENCES:

- "PRELIMINARY PLAN FOR ELIZABETH COURT, AP 103 LOT 14, HOPE STREET IN BRISTOL, RHODE ISLAND", PREPARED FOR 1202 HOPE STREET INVESTMENT, LLC BY PRINCIPE COMPANY, INC., DATED APRIL 12, 2021 (REV. 7/27/21) WHICH IS TO BE RECORDED AT THE TOWN OF BRISTOL LAND EVIDENCE RECORDS OFFICE.
- 2. "EXISTING CONDITIONS PLAN OF LAND, 1202 HOPE STREET, BRISTOL, RI", PREPARED FOR JOSEPH GARIES BY TURNING POINT SURVEY COMPANY, INC., DATED AUGUST, 5, 2020.

CURRENT OWNE	TRS AND APPLICANTS
MI 1200 HOPE ST, LLC	1202 HOPE STREET INVESTMENTS, LLC
PO BOX 572	PO BOX 246
WARREN, RI 02885	WARREN, RI 02885
TITLE REFERENCE:	TITLE REFERENCE:
DEED BK.2173/PG.176	DEED BK.1990/PG.179
SITE LOCATION:	SITE LOCATION:
1200 HOPE STREET	1202 HOPE STREET
BRISTOL, RHODE ISLAND	BRISTOL, RHODE ISLAND
ASSESSORS REFERENCE:	ASSESSORS REFERENCE:
MAP 103 PARCEL 2	MAP 103 PARCEL 14

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 BETWEEN AUGUST 3, 2018 AND MARCH 7, 2023, AS FOLLOWS:

CLASS II COMPREHENSIVE BOUNDARY SURVEY DATA ACCUMULATION SURVEY

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:

TO ESTABLISH THE PROPERTY LINES OF THE EXISTING PARCELS (ASSESSORS MAP 103, PARCEL 2 & 14) AND TO RECONFIGURE THEIR PROPERTY LINES TO CREATE LOTS 2 AND 14 AS SHOWN. BY hole & M

ROBERT L. MASON, PROFESSIONAL LAND SURVEYOR, LICENSE NO. 2001, COA NO. LS.000A533-COA



TOWN OF BRISTOL

MAP 103 PARCEL 83

REBAR

4-13

0	DRAIN MANHOLE
$ \exists $	FIRE HYDRANT
O GG	GAS GATE
co	SEWER CLEAN OU
S	SEWER MANHOLE
- 00000	STONE WALL
- O UP	UTILITY POLE
⊕ WG	WATER GATE
W	WATER METER

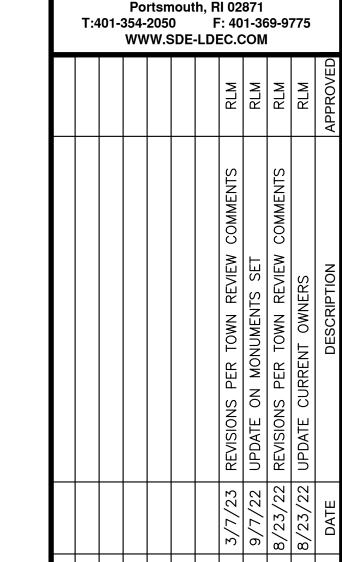
WETLANDS WETLAND FLAG

----s--- UNDERGROUND SEWER

RESIDENTIAL 10 (R-10) ZONING DISTRICT						
REGULATION	REQUIREMENT					
MIN. LOT AREA	10,000 S.F.					
LOT FRONTAGE	80'					
FRONT SETBACK	30'					
SIDE SETBACK	15'					
REAR SETBACK	30'					
MAX. BUILDING HEIGHT	35'					
MAX. LOT COVERAGE	25%					

1200 HOPE STREET (MAP 103, PARCEL 2) IS LOCATED IN THE BRISTOL HISTORIC DISTRICT

SUMMARY OF LOT CONFIGURATIONS LOT 14 MAP 103 PARCEL 2 MAP 103 PARCEL 14 PROPOSED EXISTING PROPOSED 142,517 S.F. | 118,123 S.F. ADD PARCEL A +24,394 S.F. PROPOSED 76,705 S.F. MINUS PARCEL A -24.394 S.F. PROPOSED 118,123 S.F



Land Development Engineering & Consulting, LLC

207 High Point Avenue, Unit 6

DATE: APRIL 26, 2022 COMPS. BY: CHECK BY: RLM RLM/MER

APPROVAL

PLAN REVISIONS

PROJECT NO. 22024

ROBERT L. MASON

PROFESSIONAL LAND SURVEYOR

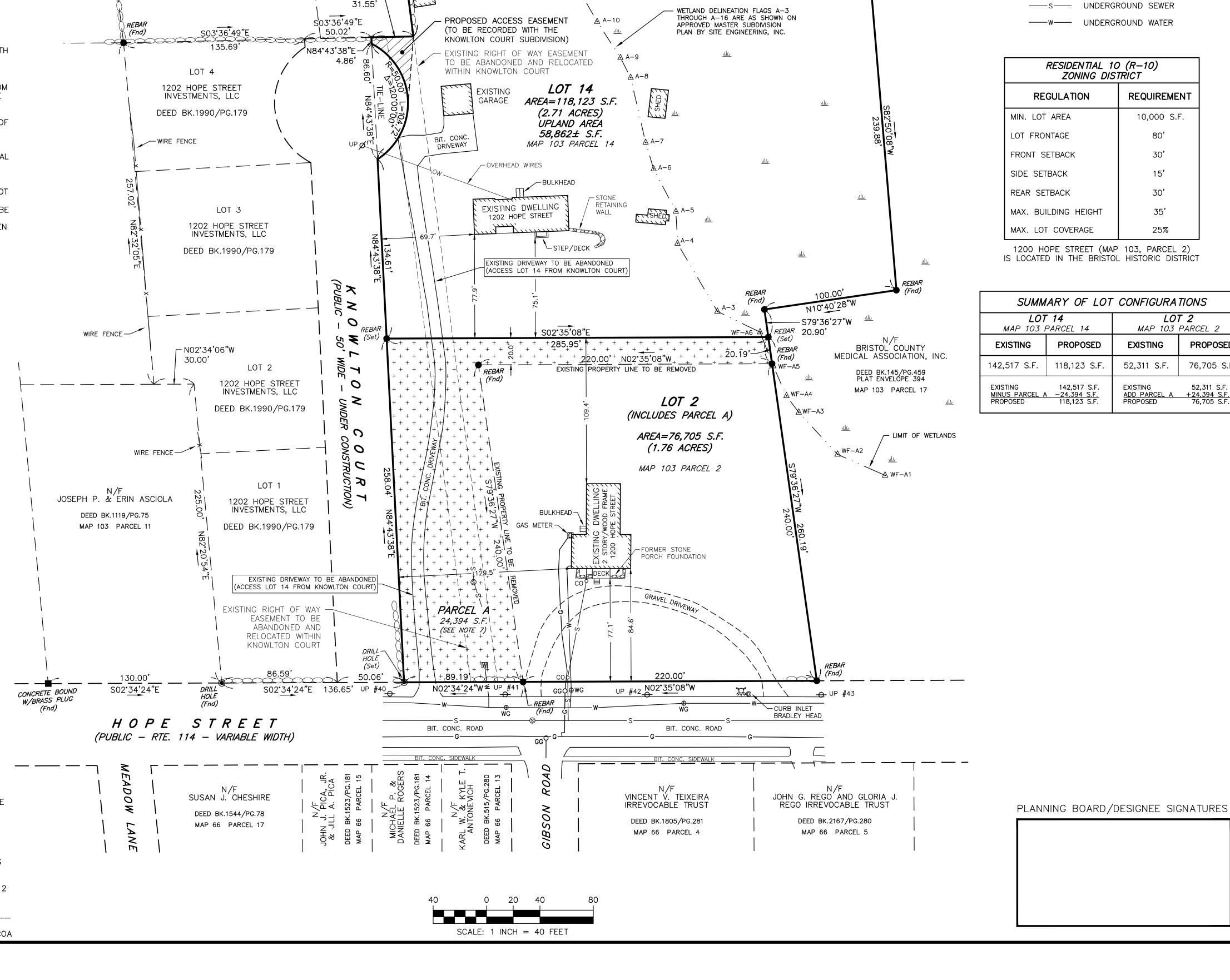
UBDIVISION S **ADMINISTRATIVE** 1200 8 BRIS⁻

DRAWING TITLE:

LOTTING PLAN

1" = 40' SHEET NO.

3 of 9



N/F TOWN OF BRISTOL

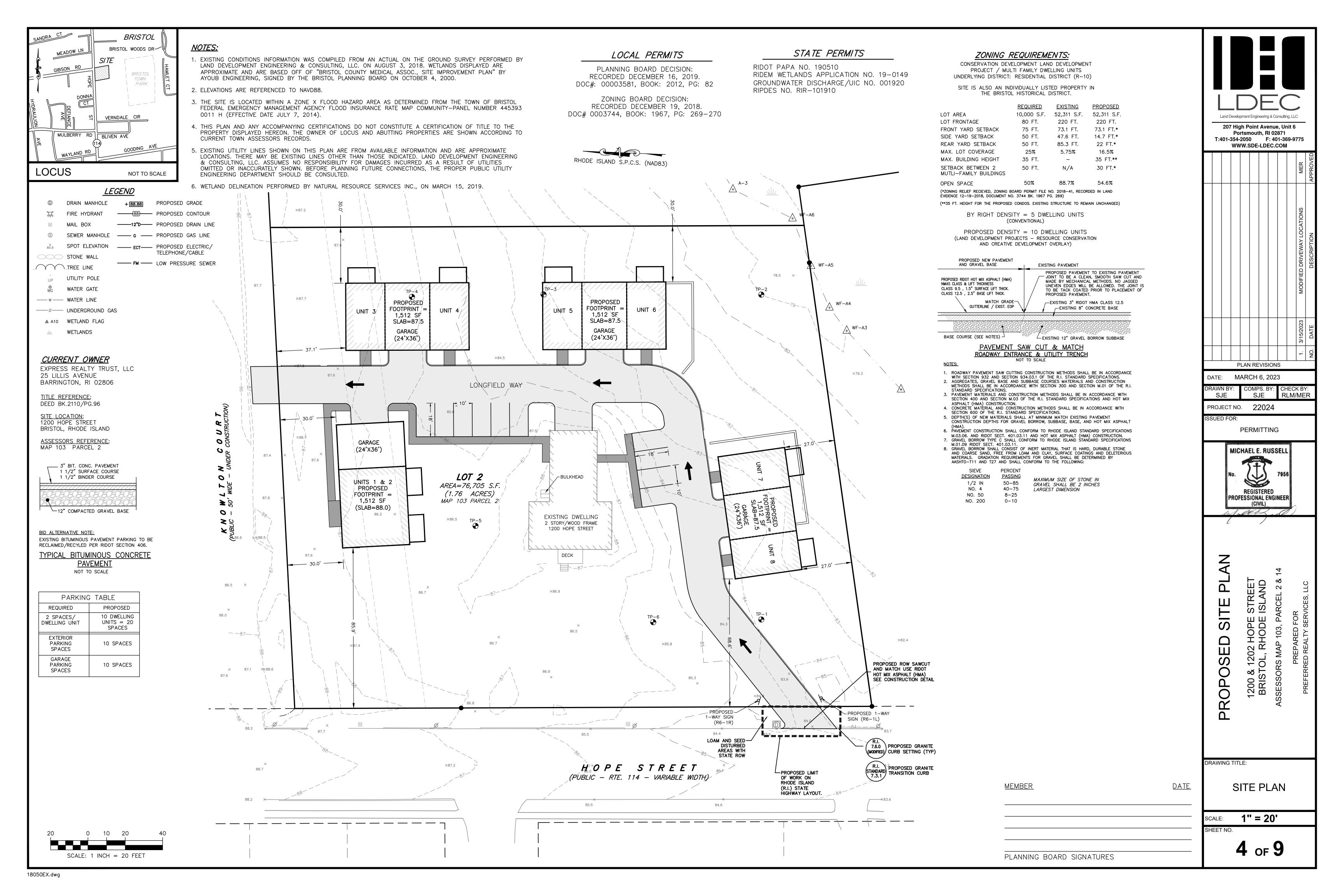
MAP 103 PARCEL 44

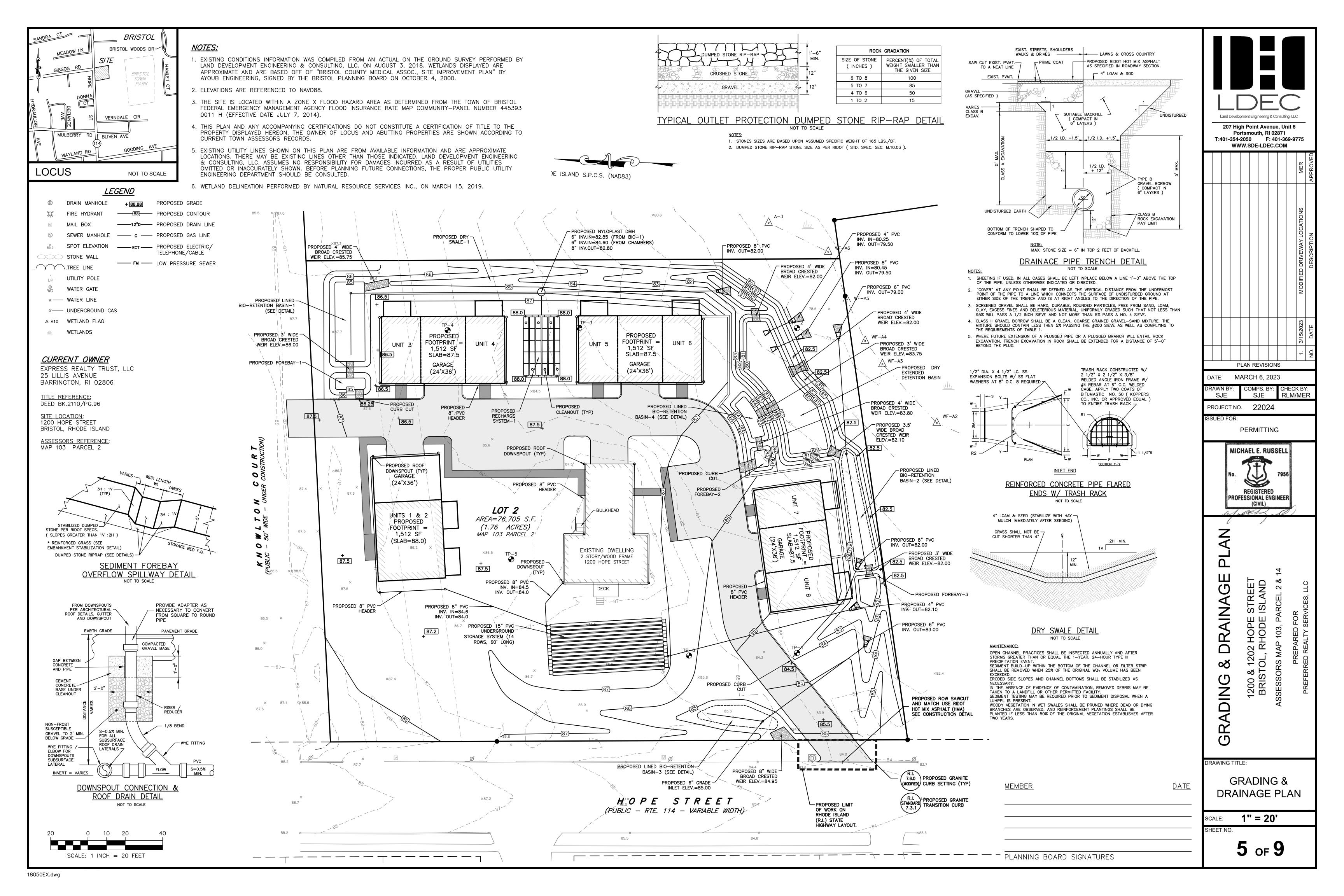
LIMIT OF WETLANDS -

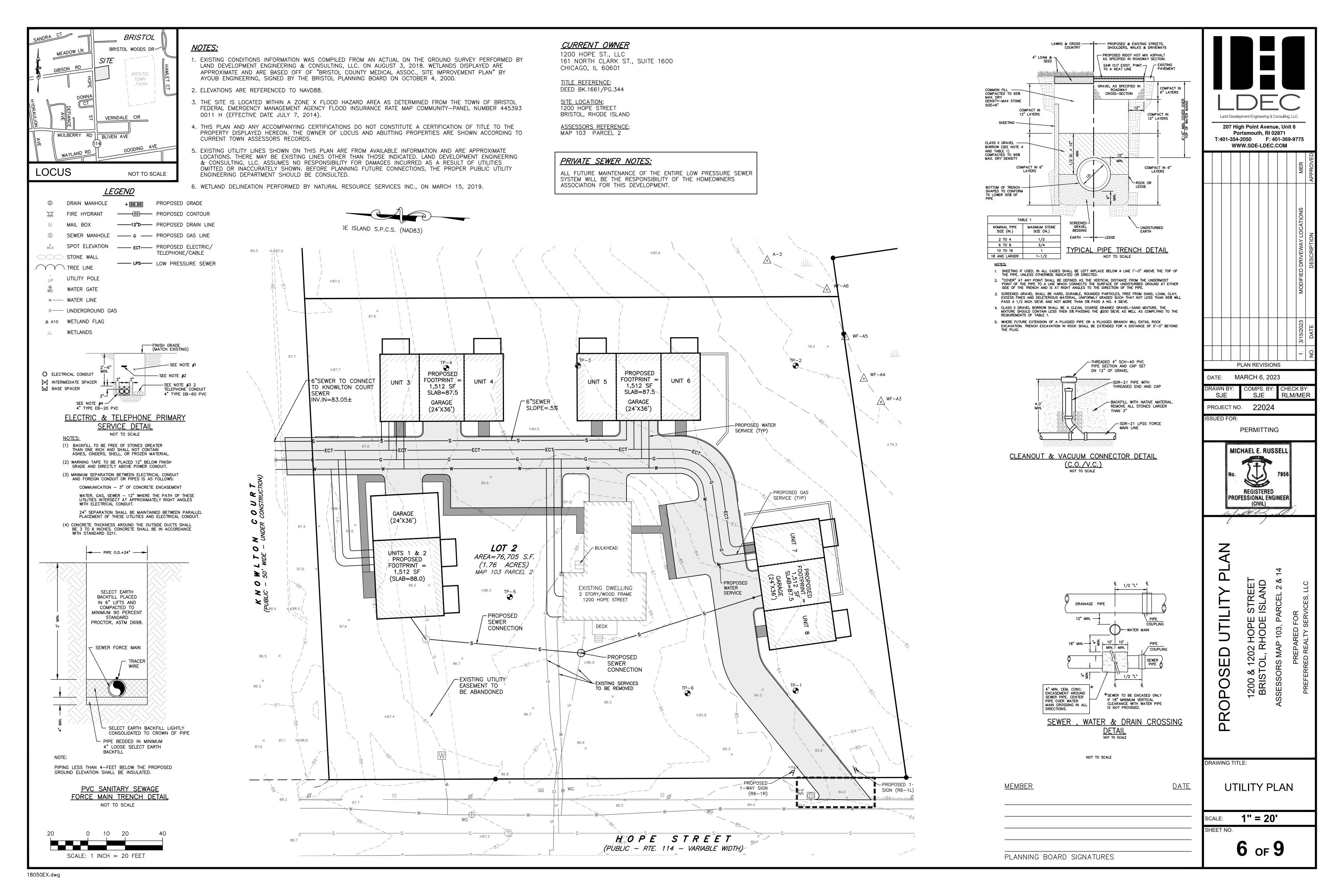
S03°36'49"E-

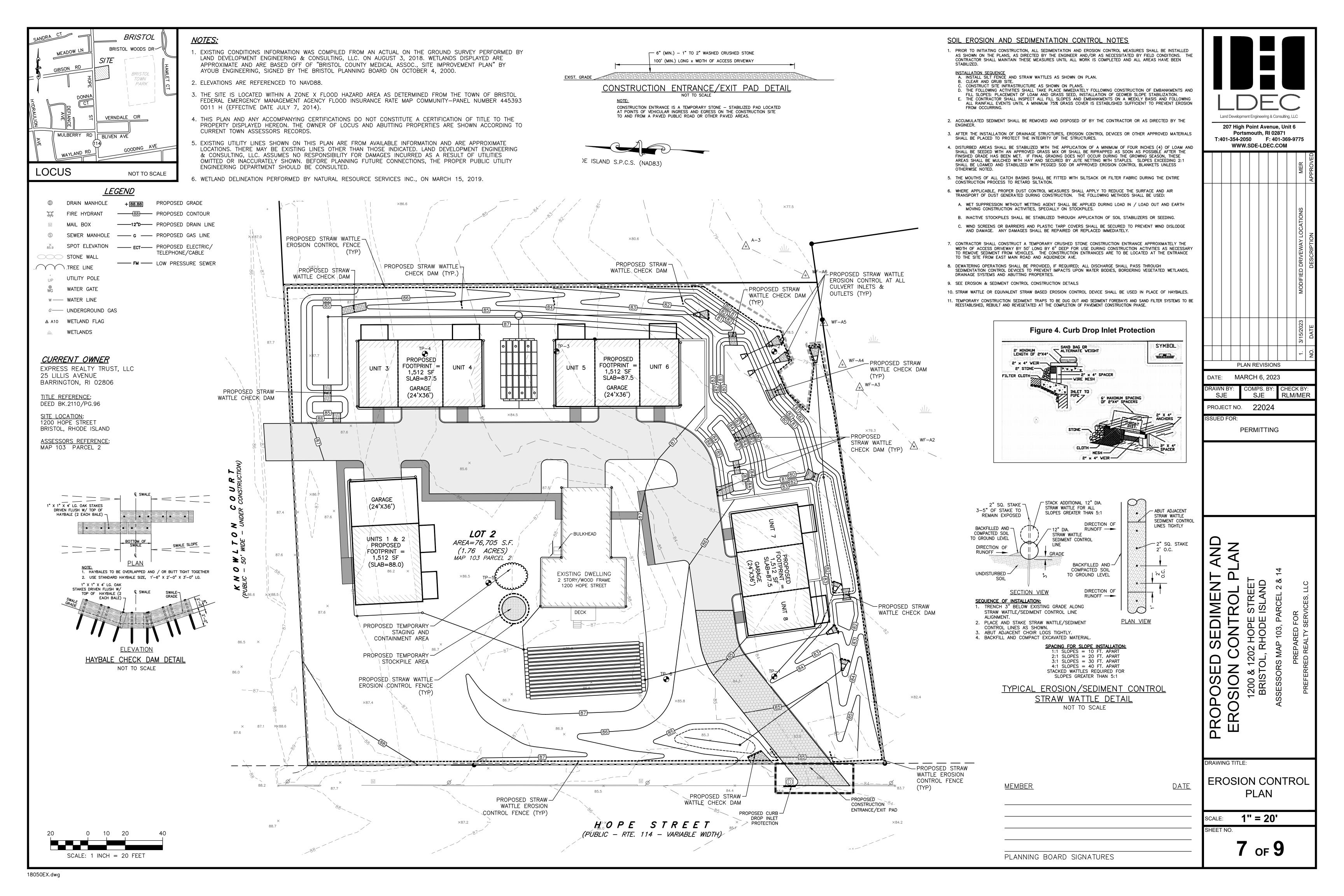
- N80°11'44"E

80.96



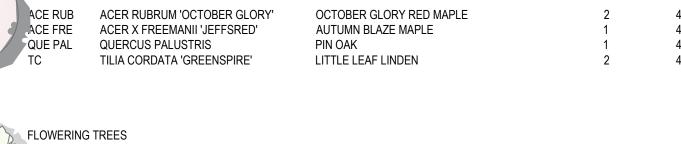








PROPOSED PLANTING LEGEND SYMBOL BOTANICAL NAME COMMON NAME QTY SIZE SHADE TREES ACE RUB ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE 4" CAL. ACE FRE ACER X FREEMANII 'JEFFSRED' AUTUMN BLAZE MAPLE 4" CAL. QUERCUS PALUSTRIS PIN OAK 4" CAL. TILIA CORDATA 'GREENSPIRE' LITTLE LEAF LINDEN 4" CAL.







EASTERN REDCEDAR

TOTAL TREES

8/10' B&B

7/8' B&B

6/7' B&B

7/8' B&B

LAND DEVELOPMENT ENGINEERING & CONSULTING, LLC

LOCUS MAP

VERDE DESIGN + HORTICULTURE 89 DR MARCUS WHEATLAND BLVD

NEWPORT RI 02840

verdegardenri@gmail.com

O. 401 619-0562

CIVIL ENGINEER

MIDDLETOWN RI

401 354 2050

1700 WEST MAIN ROAD

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND UTILITIES AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.

TO BE DETERMINED, TREES SHOULD BE VIEWED BY ARBORIST TO DETERMINE HEALTH AND VALUE

2. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES BY NOTIFYING DIG-SAFE AT 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.

JUNIPERUS VIRGINIANA

'CUPRESSIFOLIA'

EXISTING TREES IN GOOD CONDITION

EXISTING TREES IN FAIR CONDITION

EXISTING TREES IN POOR CONDITION

(ORANGE AND WHITE STRIPED MARKING TAPE)

TO REMAIN

(BLUE MARKING TAPE)

(YELLOW MARKING TAPE)

TO BE REMOVED

- THE CONTRACTOR SHALL CONDUCT PRELIMINARY INVESTIGATIONS INCLUDING ALL NECESSARY EXCAVATION TO DETERMINE IF THE WORK CAN BE DONE AS SHOWN ON THE PLANS. CHANGES MAY BE MADE AS REQUIRED BY FIELD CONDITIONS AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- 4. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THE DRAWING. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE OF ALL UNDERGROUND UTILITIES AND FOR PROTECTING ALL LINES DURING CONSTRUCTION.
- 5. ALL WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS.

PLANTING NOTES

- 1. LANDSCAPE CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID TO BECOME COMPLETELY FAMILIAR WITH SITE CONDITIONS.
- 2. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- 3. CONTRACTOR TO VERIFY ALL UTILITIES ON PROPERTY AND TO PROTECT ALL UTILITIES DURING
- 4. IF THERE IS A DISCREPANCY BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND THE NUMBER OF PLANTS SHOWN IN THE PLANT LIST, THE NUMBER OF PLANTS SHOWN ON THE LIST WILL TAKE PRECEDENCE.
- 5. ALL CONTAINER MATERIAL TO BE GROWN IN CONTAINER A MINIMUM OF SIX MONTHS.
- 6. ALL MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ACCORDING TO THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 7. CONTRACTOR SHALL REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO THE OWNER.
- 8. CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE CALENDAR YEAR FROM
- 9. ALL PROPOSED PLANTS SHALL BE LOCATED CAREFULLY AS SHOWN ON THE PLANS AND THE
- PLACEMENT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE THE INSTALLATION.
- SHOWN. SEE SPECIFICATIONS FOR SOIL PREPARATION AND SEED MIX.

10. ALL DISTURBED AREAS NOT TO BE PAVED OR PLANTED SHALL BE LOAMED AND SEEDED AS

SHRUBS THAT ARE ISOLATED FROM GROUNDCOVER AREAS AND GENERAL SHRUB MASSES. 12. ALL PLANT MATERIAL SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT ON SITE PRIOR TO INSTALLATION. THE LANDSCAPE ARCHITECT WILL TAG ALL TREES AT THE NURSERY AND INSPECT

THEM AFTER DELIVERY TO THE SITE. SEE SPECIFICATIONS FOR TAGGING, INSPECTION, AND

11. TWO INCH (2") DEEP, FINELY SHREDDED BARK MULCH WILL BE INSTALLED AROUND ALL TREES AND

- ACCEPTANCE OF PLANT MATERIAL. 13. LANDSCAPE ARCHITECT SHALL CONFIRM PLANT LIST AND APPROVE SUBSTITUTIONS OF PLANT VARIETIES PRIOR TO ORDERING OF MATERIAL.
- 14. SOIL MIX: 1/3 PEAT MOSS, 1/3 SCREENED LOAM, 1/3 DEHYDRATED MANURE.

TIME OF PROVISIONAL ACCEPTANCE.

15. THE OWNER RESERVES THE RIGHT TO SUBSTITUTE PLANT SELECTIONS WITH PLANTS OF SIMILAR CHARACTERISTICS IF THE SPECIFIED PLANTS ARE NOT AVAILABLE IN ACCEPTABLE QUANTITIES OR CONDITIONS.

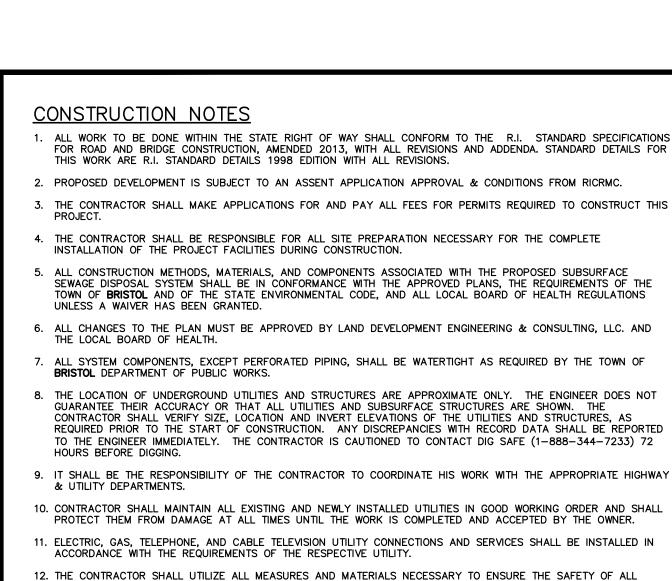
LONGFIELD PROJECT 1200 HOPE STREET

BRISTOL, RI

PROJECT NUMBER: 19.029 DRAWN BY: CHECKED BY: SCALE: 1"=20'-0" DATE: 11.23.2021

PERMIT PRINT NOT FOR CONSTRUCTION

LANDSCAPE PLAN



PERSONS AND PROPERTIES AT THE SITE DURING CONSTRUCTION. ALL EXCAVATIONS SHALL CONFORM TO CURRENT

ENCASED IN CONCRETE FOR A MINIMUM OF TEN (10) FEET FROM THE CROSSING POINT. WHERE SEWER LINES PASS

13. A MINIMUM OF 18" VERTICAL CLEARANCE SHALL BE MAINTAINED WHENEVER SANITARY SEWERS PASS BELOW WATER MAINS OR DRAIN LINES. OTHERWISE, WATER SERVICE, DRAIN LINES AND SEWER LINES SHALL BE CAREFULLY

. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSPECTION AND MAINTENANCE OF ALL STORMWATER FACILITIES UNTIL SUCH TIME AS THE DEVELOPMENT AND ASSOCIATED UTILITIES ARE

2. ALL STORMWATER FACILITIES SHOULD BE INSPECTED AFTER EVERY MAJOR RAINFALL EVENT FOR THE

FIRST 3 MONTHS AFTER CONSTRUCTION TO ENSURE PROPER STABILIZATION AND CONSTRUCTION.

3. THE CONTRACTOR SHALL INSPECT AND CLEAN ALL FACILITIES OF SEDIMENT AND DEBRIS PRIOR TO

4. ACCUMULATED SILT AND SEDIMENT SHOULD BE REMOVED FROM ALL FACILITIES AT LEAST ONCE A

YEAR OR MORE FREQUENTLY IF ACCUMULATED DEPTH OF SEDIMENT EXCEEDS THREE INCHES.

5. THE SIDE SLOPES AND BOTTOMS OF ALL DRAINAGE SWALES SHOULD BE MOWED TO A MINIMUM

SHOULD BE REMOVED FROM ALL DRAINAGE WAYS AND WETLAND BUFFER ZONES.

APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.

HEIGHT OF FOUR INCHES AT LEAST TWICE A YEAR. ALL GRASS CLIPPINGS AND ORGANIC MATTER

6. ALL REMOVED SEDIMENTS ARE TO BE PROPERLY DISPOSED AT A LOCATION TO BE APPROVED BY THE

ANY DEFICIENCIES NOTED DURING MAINTENANCE SHALL BE REPORTED TO THE OWNER AND CORRECTED

BOARD OF HEALTH. TRANSPORTATION AND DISPOSAL OF SEDIMENTS SHALL COMPLY WITH ALL

B. FOLLOW MANDATE PROGRAM AND SCHEDULE FOR EXISTING STORMWATER MANAGEMENT SYSTEM AS

1. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2321 "STANDARD PRACTICE FOR UNDERGROUND

INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS". LATEST EDITION. 2. ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION

3. MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN

4. <u>FILTER FABRIC:</u> A GEOTEXTILE FABRIC MAY BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.

. <u>FOUNDATION:</u> WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING

BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS

INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6' ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

GRASS OR LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE

AND 24" OF COVER FOR 42" - 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE

REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 36" DIAMETER PIPE

MINIMUM COVER: MINIMUM COVER OVER ALL RETNETION/DETENTION SYSTEMS IN NON-TRAFFIC APPLICATIONS

SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).

APPROVED BY THE TOWN OF **BRISTOL** AND THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL

ABOVE WATER OR DRAIN LINES, THEY SHALL ALL BÉ ENCASED IN CONCRETE REGARDLESS OF CLEARANCE.

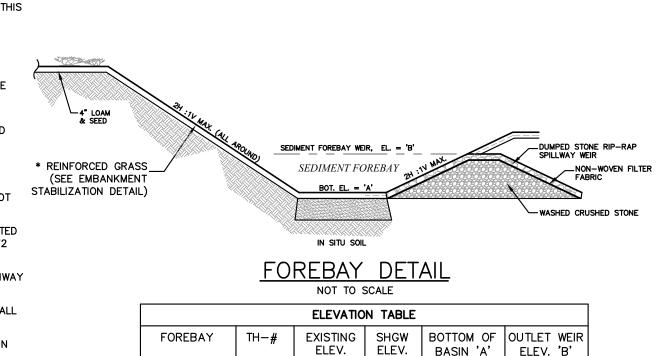
STORMWATER FACILITY OPERATION AND MAINTENANCE

ACCEPTED BY THE OWNER.

THE OWNER'S ACCEPTANCE.

IMMEDIATELY.

MANAGEMENT.



87.5

82.0

TH-1 82.3 80.3

8" PVC OUTLET EL. T =80.45 (VOL.=699 CF , AREA=1,640 SF)

30T. EL. = 80.00 (AREA=1,465 SF)

REMOVE AND REPLACE EXISTING UNSUITABLE

MATERIAL WITH CLEAN FILL

DRY EXTENDED DETENTION BASIN

NOT TO SCALE

1. REFER TO PROJECT DRAINAGE REPORT HYDROCAD® CALCULATIONS FOR ADDITIONAL INFORMATION.

TH-2

85.5

81.0

OUTLET WEIR / SPILLWAY EL. T =82.00 (VOL.=3,721 CF , AREA=2,270 SF) -

85.0

83.0

80.5

83.8

82.0

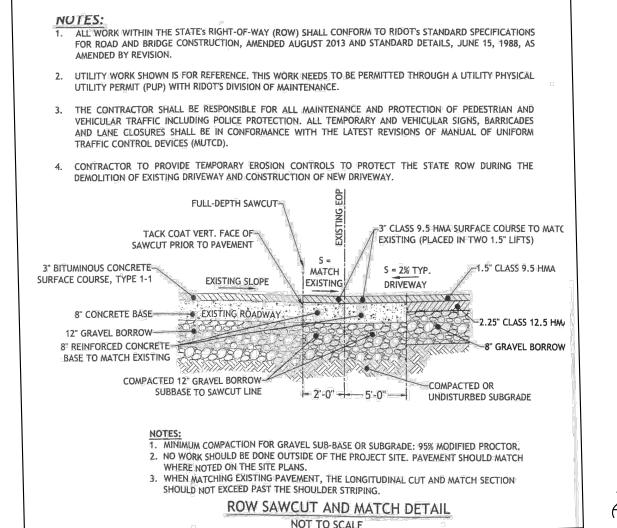
& SEED

FINISH GRADE = 87.0

6"

IN-SITU

ELEV.=82.65



- OUTLET WEIR/SPILLWAY

- 30MIL IMPERVIOUS BARRIER/LINER

TH-2

(TO CONFORM TO RISDISM

APPENDIX F TABLE F-16)

WEIR LENGTH WL = 2-FT.

DUMPED STONE RIP-RAP

ELEV.

80.0

- MATCH EXISTING GRADE

BOTTOM OF

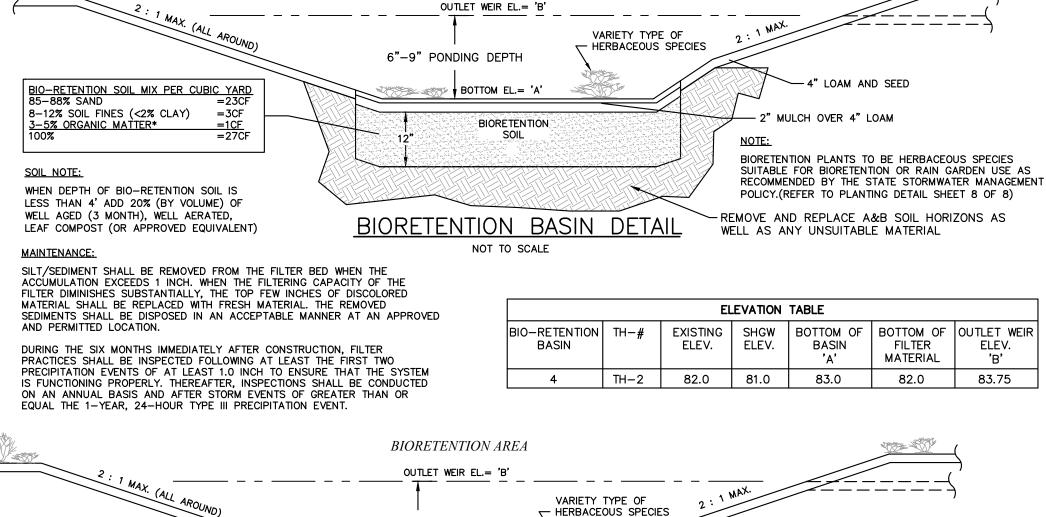
BASIN

CHECKDAM SEE DETAIL

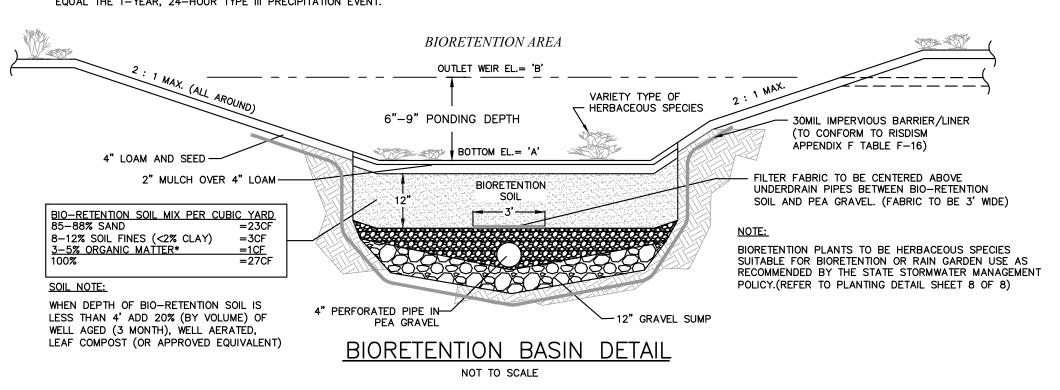
GROUND WATER ELEVATION

ELEV.

81.0



BIORETENTION AREA

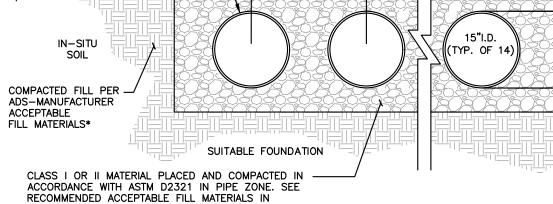


MAINTENANCE:	_
SILT/SEDIMENT SHALL BE REMOVED FROM THE FILTER BED WHEN THE ACCUMULATION EXCEEDS 1 INCH. WHEN THE FILTERING CAPACITY OF THE FILTER DIMINISHES SUBSTANTIALLY, THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REPLACED WITH FRESH MATERIAL. THE REMOVED SEDIMENTS SHALL BE DISPOSED IN AN ACCEPTABLE MANNER AT AN APPROVED AND PERMITTED LOCATION.	B
	L

DURING THE SIX MONTHS IMMEDIATELY AFTER CONSTRUCTION. FILTER PRACTICES SHALL BE INSPECTED FOLLOWING AT LEAST THE FIRST TWO PRECIPITATION EVENTS OF AT LEAST 1.0 INCH TO ENSURE THAT THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER, INSPECTIONS SHALL BE CONDUCTED ON AN ANNUAL BASIS AND AFTER STORM EVENTS OF GREATER THAN OR EQUAL THE 1-YEAR, 24-HOUR TYPE III PRECIPITATION EVENT.

	ELEVATION TABLE								
-RETENTION BASIN	TH-#	EXISTING ELEV.	SHGW ELEV.	BOTTOM OF BASIN 'A'	BOTTOM OF FILTER MATERIAL	OUTLET WEIR ELEV. 'B'	UNDERDRAIN PIPE ELEV.		
1	TH-4	87.5	85.5	85.0	83.0	85.75	83.75		
2	TH-2	82.0	81.0	81.35	80.35	82.10	80.60		
3	TH-6	85.3	82.7	84.4	83.4	84.90	83.65		

♦ELEV.=84.90 6" ELEV.=84.40 15" 30"



WELL GRADED GRANULAR BACKFILL WHICH CONTAIN AN EVEN DISTRIBUTION OF PARTICLE SIZES WITH NO MORE THAN 12% PASSING THE #200 SIEVE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR DENSITY. SEE RECOMMENDED ACCEPTABLE FILL

MATERIALS IN ADS-MANUFACTURER DESIGN AND INSTALLATION MANUAL.

18"I.D. ADS ST N-12 H20 ____

HDPE PIPES (TYP. OF 7)

ADS-MANUFACTURER DESIGN AND INSTALLATION MANUAL. SECTION A-A

BIORETENTION BASIN FILTER SIZING CALCULATIONS

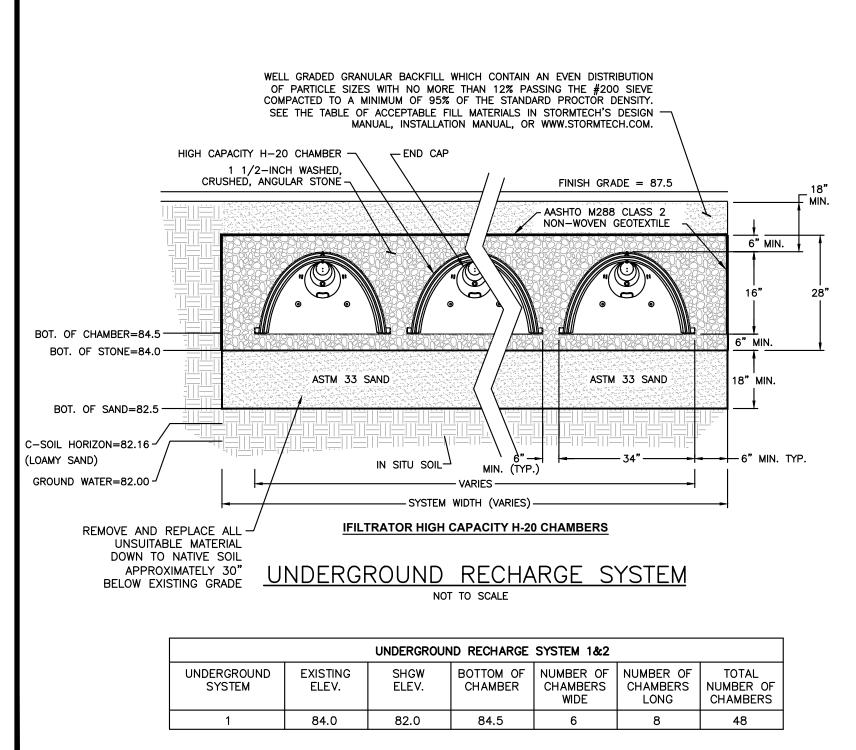
RETENTION FILTER BED SIZING CALCULATIONS:		
CTION 8.23.D.6 OF RISDISM)	BIO-RETENTION	WQv
= (WQv)(df) / [(k)(hf+df)(tf)]	BASIN	
= MIN SURFACE AREA OF FILTER BED (SF)		
= FILTER BED DEPTH	1	.3.31

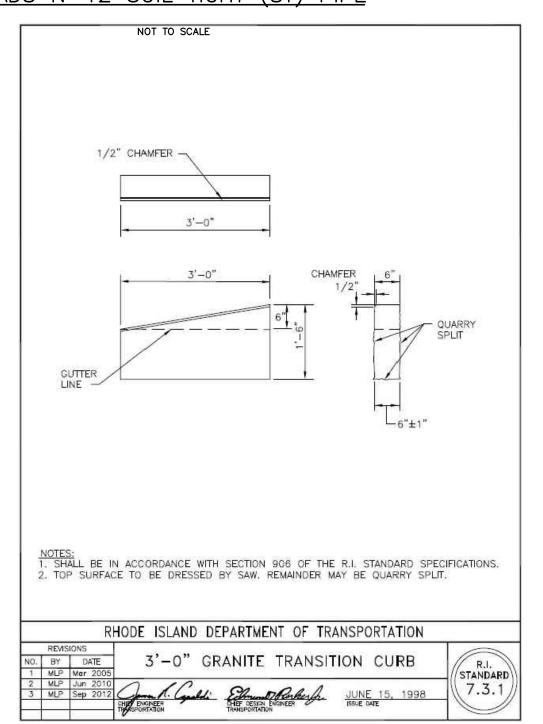
= COFFFICIENT OF PERMEABILITY (1.0 FOR BIO-RETENTION) hf = AVERAGE HEIGHT OF WATER ABOVE SURFACE OF PRACTICE tf = DESIGN FILTER BED DRAIN TIME (2-DAYS MAX)

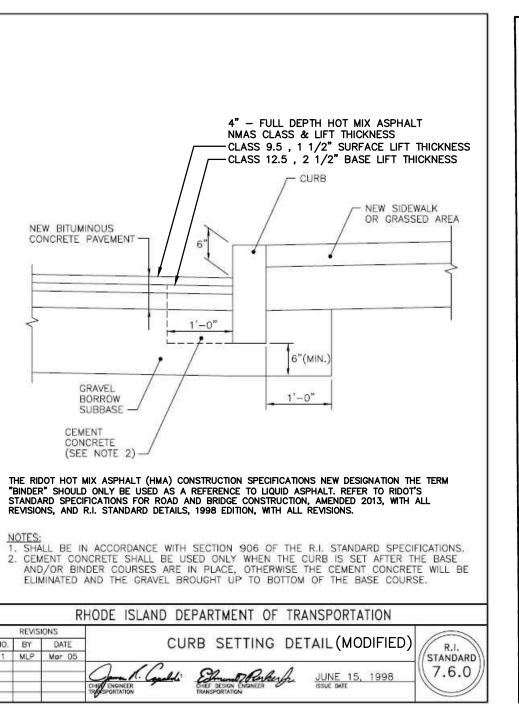
Af = (WQv)(1) / [(1)(hf+1)(2)]

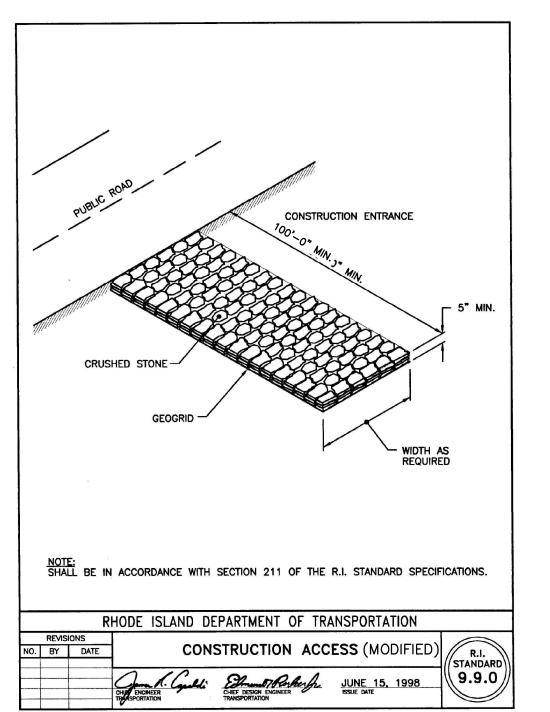
SIZING TABLE							
-RETENTION BASIN	₩Q>	df	k	hf	tf	REQUIRED FILTER BED SIZE	PROVIDED FILTER BED SIZE
1	331	1'	1'	0.75	2	95 SF	678 SF
2	805	1'	1'	0.75	2	230 SF	563 SF
3	10	1'	1'	0.5	2	3 SF	374 SF
4	187	1'	1'	0.75	2	54 SF	157 SF

PLASTIC UNDERGROUND STORAGE SYSTEM ADS N-12 SOIL TIGHT (ST) PIPE









WIDTH AS REQUIRED		D
F THE R.I. STANDARD SPECIFICATIONS.	MEMBER_	<u>DATE</u>
F TRANSPORTATION ACCESS (MODIFIED) R.I.		S
ACCESS (MODIFIED) R.I. STANDARD 9.9.0		S

PLANNING BOARD SIGNATURES

207 High Point Avenue, Unit 6 Portsmouth, RI 02871 T:401-354-2050 F: 401-369-9775 WWW.SDE-LDEC.COM PLAN REVISIONS DATE: MARCH 6, 2023 CHECK BY:

Land Development Engineering & Consulting, LLC

ISSUED FOR: **PERMITTING**

PROJECT NO. 22024

SJE

RLM/MER

MICHAEL E. RUSSELI REGISTERED PROFESSIONAL ENGINEER (CIVIL)

1.0882

LOPMEN

AND AND

20

DRAWING TITLE:

CONSTRUCTION **DETAILS**

1" = 20' SHEET NO

OF **9**