

UNIVERSITY OF RHODE ISLAND

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 22 2024 FILE #: 24-0070
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman

KINGSTON, RHODE ISLAND

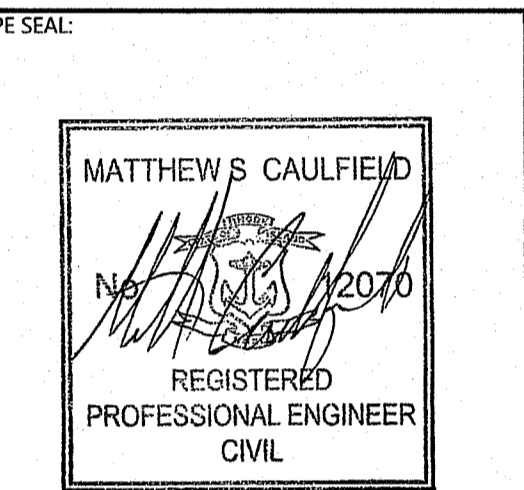
URI PFAS TREATMENT FACILITY RIDEM WETLANDS / STORMWATER PERMITTING PLANS

MARCH 22, 2024

RIDEM PERMIT SET



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RIDEM PERMIT SET

CLIENT INFO:
UNIVERSITY OF RHODE ISLAND
KINGSTON, RHODE ISLAND

URI PFAS TREATMENT FACILITY
RIDEM WETLANDS /
STORMWATER PERMITTING
PLANS

REV	MM/DD/YY	DESCRIPTION

JOB NO: 0229467.09
DATE: MARCH 22, 2024
SCALE: N/A
DESIGNED BY: CJ
DRAWN BY: ZS
CHECKED BY: MC
FILENAME: 0229467-RIDEM G-000.dwg

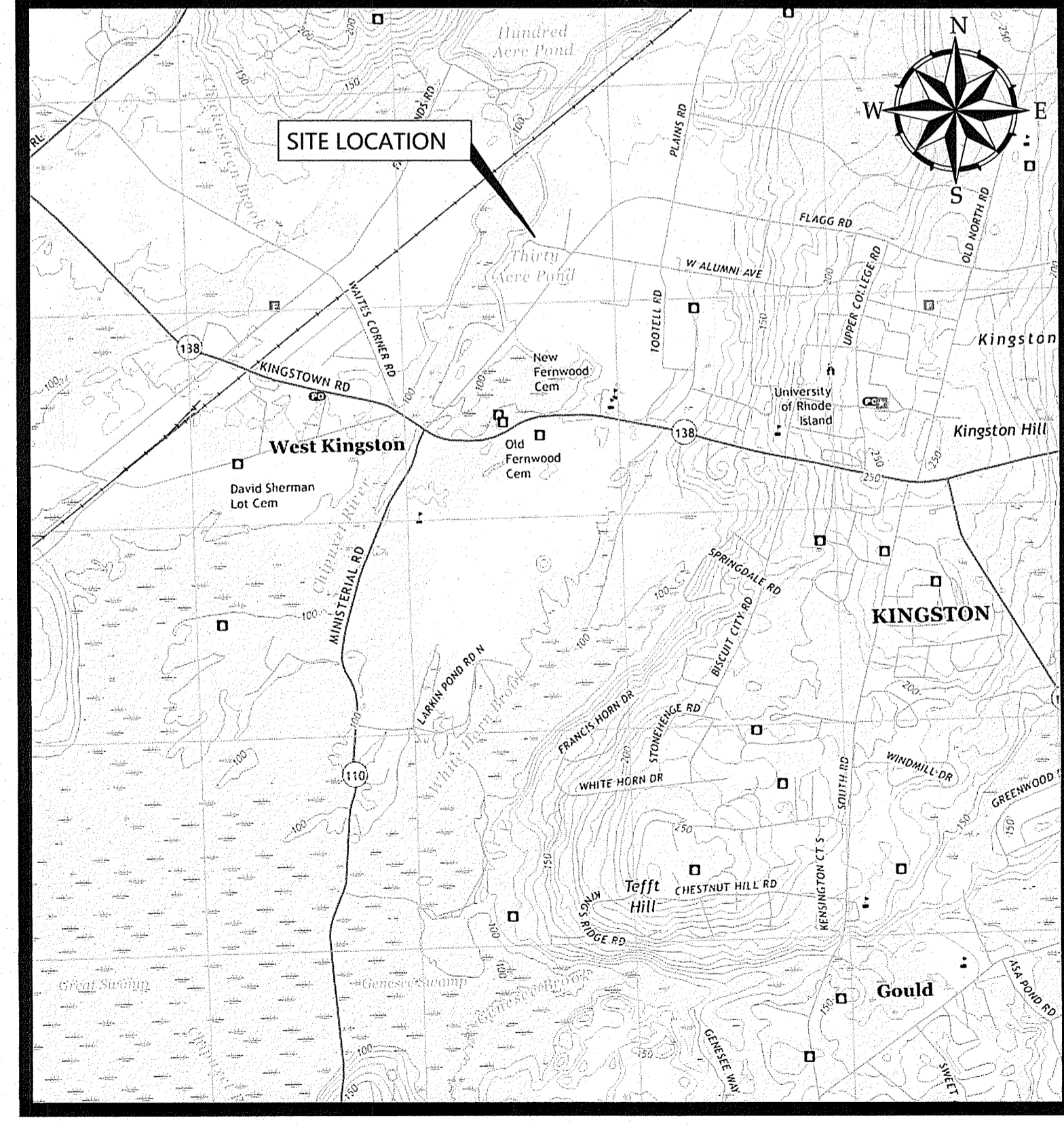
DRAWING TITLE:
GENERAL COVER

DRAWING NO:
G-000
1 of 13



PROJECT LOCATION MAP
NOT TO SCALE

SHEET INDEX	
SHEET NO.	SHEET NAME
G-000	1 COVER
C-000	2 GENERAL NOTES & LEGEND
C-101	3 SITE PREPARATION & EROSION CONTROL PLAN - PHASE 1
C-102	4 SITE PREPARATION & EROSION CONTROL PLAN - PHASE 2
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C-301	8 GRADING & DRAINAGE PLAN - PHASE 2
C-400	9 UTILITY PLAN - PHASE 1
C-401	10 UTILITY PLAN - PHASE 2
C-500	11 CIVIL DETAILS - 1
C-501	12 CIVIL DETAILS - 2
C-502	13 CIVIL DETAILS - 3



SITE LOCATION MAP
SOURCE: USGS TOPO QUADRANGLE
SCALE: 1"=2000'

\\woodardcurran.com\shared\Projects\0229467.09 URI PFAS Temp System Design\Map Drawings\RIDEM Plans\General\0229467-RIDEM G-000.dwg, Mar 22, 2024 - 2:09pm, MCAULFIELD

GENERAL NOTES

GENERAL:

- THE SITE IS LOCATED ON THE TOWN OF SOUTH KINGSTOWN ASSESSORS PLAT 22-2 LOT 16.
- THE LOT IS ZONED G1 GOVERNMENT INSTITUTIONAL AND OWNED BY THE STATE OF RHODE ISLAND.
- THE SITE IS APPROXIMATELY 34.38± ACRES.
- EXISTING CONDITIONS ARE BASED ON SURVEY BY SOUTH COUNTY SURVEY COMPANY, LLC IN JULY 2023. SURVEY WAS REVISED SEPTEMBER 29, 2023 AND MARCH 7, 2024 AND SIGNED MARCH 8, 2024.
- THE BOUNDARY LINE SHOWN ON THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. IT IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND MAY BE SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.
- WETLANDS WERE DELINEATED BY PARE CORPORATION JUNE 2023 AND SURVEYED BY SOUTH COUNTY SURVEY COMPANY, LLC IN JULY 2024.
- TEST PIT SOIL EVALUATIONS AND GEOTECHNICAL BORINGS WERE COMPLETED BY PARE CORPORATION ON JUNE 13, 2023 AND JUNE 21, 2023 RESPECTIVELY. LOCATIONS SHOWN ON THESE PLANS SHOULD BE CONSIDERED APPROXIMATE.
- THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THE HORIZONTAL DATUM IS BASED ON THE RHODE ISLAND STATE COORDINATE SYSTEM (NAD 1983).
- ABUTTERS INFORMATION WAS TAKEN FROM THE TOWN OF SOUTH KINGSTOWN, RI TAX ASSESSORS RECORDS IN JANUARY OF 2024.
- THE PROJECT AREA IS LOCATED IN THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD ZONE X UNSHADED (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAPS (FIRMS) FOR WASHINGTON COUNTY, RHODE ISLAND (MAP PANEL 44009C0185) EFFECTIVE APRIL 3, 2020.
- THE SITE IS LOCATED IN COMMUNITY WELLHEAD PROTECTION AREA ASSOCIATED WITH THE UNIVERSITY OF RHODE ISLAND WATER SYSTEM.
- PLAN REFERENCES:
A PLAN TITLED "OVERALL SITE PLAN ... UNIVERSITY RHODE ISLAND ... WELL REDEVELOPMENT WELL STATION NO. 3 KINGSTON, RHODE ISLAND..." BY GORDON R. ARCHIBALD, INC DATED SEPTEMBER 2015, SCALE 1"=20', SHEET 3 OF 11.
- EXISTING SITE FEATURES SHOWN ON THESE PLANS WERE COMPILED FROM FIELD SURVEYS AND RECORD DRAWINGS. THESE PLANS DO NOT NECESSARILY DEPICT THE EXACT LOCATIONS OF ALL FEATURES WHICH MAY EXIST AT THIS TIME WITHIN THE SURVEY LIMITS. THERE MAY BE EXISTING FEATURES OTHER THAN THOSE INDICATED.
- LAND OUTSIDE THE PROPOSED LIMIT OF WORK SHALL NOT BE DISTURBED BY THE CONTRACTOR.
- ALL WORK SHALL COMPLY WITH ALL O.S.H.A. STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL BENCH MARKS NECESSARY FOR THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT LIMITED TO DEMOLITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITY'S SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COSTS SHALL BE BORNE BY THE CONTRACTOR.
- THE PROPOSED INTERIM BUILDING IS NOT PROPOSED TO BE SERVED BY OWTS OR SEWER.

UTILITY NOTES:

- THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY UTILITY CONNECTIONS OR CROSSINGS OF PROPOSED OR EXISTING UTILITIES. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THESE LINES. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND ACTUAL FIELD CONDITIONS ENCOUNTERED. THE CONTRACTOR IS RESPONSIBLE FOR HIS/HER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE EXISTING UTILITIES AS MAY BE NECESSARY TO AVOID THEIR DAMAGE AND TO FACILITATE THE PROPOSED CONNECTIONS).
- BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS AND FOR PERFORMING ANY NECESSARY WORK INVOLVED WITH THE UTILITY COMPANIES, WHICH WILL BE EFFECTED BY THE WORK.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
- UTILITY PIPING INSTALLED ON A CURVED HORIZONTAL ALIGNMENT SHOULD HAVE JOINT DEFLECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUND BREAK.
- CONTRACTOR IS RESPONSIBLE FOR DIGGING TEST HOLES AND VERIFYING EXISTING UTILITIES AND STRUCTURES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THAT BASED ON EXACT LOCATION OF EXISTING UTILITIES THERE ARE NO CONFLICTS BETWEEN THEM AND THE PROPOSED UTILITIES. CONTRACTOR SHALL VERIFY THE SIZE AND MATERIAL OF EXISTING STRUCTURES TO ENSURE PROPER CONNECTION OF PROPOSED TO EXISTING WORK.
- ALL DRAINAGE STRUCTURES SHALL HAVE THEIR RIMS SET TO FINISHED GRADE REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY'S INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF UTILITIES.

SEDIMENTATION & EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
- SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL EROSION CONTROL MEASURES NECESSARY TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT AND DEBRIS.
- SEDIMENTATION AND EROSION CONTROL MEASURES TO BE ADJUSTED AS NEEDED WITHIN ACTIVE LIMIT OF DISTURBANCE.
- PERMANENT SEEDING SHALL OCCUR BETWEEN MARCH 1 AND JUNE 15, OR BETWEEN AUGUST 15 AND OCTOBER 15. INSTALL EROSION CONTROL BLANKETS OR APPROVED EROSION CONTROL MEASURES OUTSIDE THE PERMANENT SEEDING TIME FRAME.
- ALL SITE SOILS TO BE STOCKPILED FOR MORE THAN 14 DAYS SHALL BE SURROUNDED BY EROSION CONTROL BARRIERS AND TEMPORARILY SEEDED AND MULCHED.
- EROSION CONTROL MEASURES SHALL BE INSPECTED AT A MINIMUM FREQUENCY OF ONCE EVERY WEEK, AND DURING AND AFTER EVERY RAIN EVENT GREATER THAN 0.25". ANY NECESSARY REPLACEMENT OR REPAIR SHALL BE PERFORMED PROMPTLY BY THE CONTRACTOR.
- DUST SHALL BE CONTROLLED AS NECESSARY THROUGH THE USE OF WATER. THE USE OF CALCIUM CHLORIDE FOR DUST CONTROL IS NOT ALLOWED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL COORDINATE LOCATION OF CONSTRUCTION ENTRANCE WITH OWNER.
- CONTRACTOR SHALL COORDINATE LOCATION OF CONCRETE WASHOUT WITH OWNER. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY MANAGING CONCRETE WASHOUT WASTEWATER IN ACCORDANCE WITH LOCAL REGULATIONS.

CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH THE ENGINEER, UNIVERSITY OF RHODE ISLAND OPM, UNIVERSITY UTILITIES DEPARTMENT, UNIVERSITY OFFICE OF CAPITOL PROJECTS, APPLICABLE UTILITY COMPANIES AND STATE OF RI.
- THE CONTRACTOR SHALL CALL "DIG SAFE" AT 811 OR 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATION IN ACCORDANCE WITH STATE OF RHODE ISLAND, GENERAL LAW C39-1.2.
- THE CONTRACTOR SHALL NOTIFY THE UNIVERSITY OF RHODE ISLAND UTILITIES DEPARTMENT AT 1-401-874-4203 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES IN WRITING 48 HOURS PRIOR TO ANY CONSTRUCTION WITHIN 15 FEET OF A UTILITY LINE.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC.
- THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL BUILDINGS, CONCRETE SLABS, WALKS, STREETS, PAVEMENTS, HIGHWAY GUARDS, CURBING, EDGING, TREES AND PLANTINGS ON OR OFF THE PREMISES, AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AT HIS/HER OWN EXPENSE AS DIRECTED BY THE ENGINEER ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS.
- ALL EXISTING PIPING AND STRUCTURES EXPOSED DURING EXCAVATION SHALL BE ADEQUATELY SUPPORTED, BRACED, OR OTHERWISE PROTECTED DURING CONSTRUCTION ACTIVITIES.
- ALL SURFACES OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, AS DETAILED, OR AS SPECIFIED BY THE ENGINEER.
- WORK WITHIN PUBLIC WAYS SHALL COMPLY WITH APPLICABLE MUNICIPAL AND STATE REQUIREMENTS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- LEGALLY DISPOSE OF EXISTING DEBRIS PER LAWS AND REGULATIONS.
- MATERIALS THAT MAY BE A SOURCE OF STORMWATER POLLUTION SUCH AS GASOLINE, DIESEL FUEL, HYDRAULIC OIL, ETC. SHOULD BE STORED IN A STORAGE TRAILER OR COVERED LOCATIONS OR TAKEN OFF-SITE AT THE END OF EACH DAY.
- THE CONTRACT SHALL TAKE CARE TO AVOID AND PROTECT NATIONAL WEATHER SERVICE STATION.
- THE CONTRACTOR SHALL NOT INTERFERE WITH THE UNIVERSITY RESEARCH AND AGRICULTURE ACTIVITIES LOCATED ADJACENT TO THE SITE.
- THE CONTRACTOR SHALL NOT BLOCK ACCESS TO THIRTY ACRE POND ROAD AND ABUTTING PROPERTIES LOCATED AT END OF ROAD.

SITE LAYOUT NOTES:

- THE SITE LAYOUT DISPLAYED ON THESE DRAWINGS HAS BEEN DESIGNED WITHOUT THE BENEFIT OF ARCHITECTURAL PLANS. THE SITE LAYOUT IS SUBJECT TO CHANGE BASED UPON FINAL ARCHITECTURAL PLANS.
- FINAL CONSTRUCTION PLANS ARE TO BE DESIGNED TO FIT THE FINAL ARCHITECTURAL BUILDING LAYOUT FOR VEHICLE ACCESS, PEDESTRIAN ACCESS, ACCESSIBLE ROUTES AND TO FACILITATE OPTIMAL FUNCTIONALITY OF THE FULL WATER TREATMENT SYSTEM.
- THE SITE HAS BEEN DESIGNED TO PROVIDE LOOP ACCESS FOR A WB-50 DESIGN VEHICLE.
- IMPERVIOUS TOTALS AND LIMITS OF WORK HAVE BEEN DESIGNED FOR THIS RIDEM WETLANDS AND STORMWATER CONSTRUCTION APPLICATION. IMPERVIOUS INCREASES OR SUBSTANTIAL CHANGES TO THE STORMWATER SYSTEMS SHOWN ON THESE PLANS WOULD NECESSITATE PERMIT MODIFICATION TO THE APPLICATION.

PARKING CALCULATION:

PARKING USE 1:	OFFICES SPACE
PARKING USE 1 REQUIREMENT:	1 FOR EACH 350 SQ. FT. OF FLOOR AREA*
PARKING USE 2:	MANUFACTURING, STORAGE AND WHOLESALE
PARKING USE 2 REQUIREMENT:	1 FOR EVERY 2 EMPLOYEES (ON THE LARGEST SHIFT FOR WHICH THE BUILDING IS DESIGNED), PLUS 1 FOR EACH MOTOR VEHICLE MAINTAINED OR USED ON THE PREMISES (MINIMUM OF 4 SPACES)*
OFFICE FLOOR SPACE:	1,350 SF
OFFICE PARKING SPACES REQUIRED:	4 SPACES
NUMBER OF EMPLOYEE SPACE REQUIRED:	4 SPACES
ADA PARKING REQUIRED:	1 SPACE
REQUIRED PARKING SPACES:	8 SPACES
PARKING SPACES PROVIDED:	10 SPACES (2 ADA)

* PARKING REQUIREMENTS PER TOWN OF SOUTH KINGSTOWN ZONING ORDINANCE SECTION 7111 - MINIMUM OFF-STREET PARKING REQUIREMENTS.

LEGEND

EXISTING		PROPOSED
---114---	CONTOUR (1' INTERVAL)	---114---
---115---	CONTOUR (5' INTERVAL)	---115---
x 115.6	SPOT ELEVATION	x 115.6
W	WATER LINE	W
⊕	WATER VALVE	⊕
⊙	WATER METER	⊙
⊕	FIRE HYDRANT	⊕
	CHEMICAL ADDITION VAULT	□
	SEWER FORCE MAIN	---FM---
	SEWER MANHOLE	⊕
	SUMP STRUCTURE	⊕
	STORM DRAIN	---SD---
	FLARED END SECTION	◁
	OVERHEAD UTILITY	---O---
	UTILITY POLE	⊕
	CATCH BASIN	⊕
	EDGE OF VEGETATION	~~~~~
	EDGE OF PAVEMENT	=====
	ADA PARKING	□
	PARKING STRIPING	▨
	PARKING SPOT	□
	GRAVEL DRIVE	▨
	EROSION CONTROL SEDIMENT BARRIER	---E---
	LIMIT OF WORK	---LW---
	BUILDING FACE	---B---
	FENCE	---F---
	WETLAND EDGE	~~~~~
	WETLAND BUFFER	---WB---
	TREE	⊕
	TEST PIT AND NUMBER	⊕ TP-#
	BORING AND NUMBER	⊕ B-#
	MONITORING WELL	⊕ M-#
	CONCRETE	▨
	GRAVEL	▨
	ASPHALT	▨
	SAND FILTER W/ LINER	▨
	RIP RAP/CRUSHED STONE	▨

ABBREVIATIONS

&	AND	NO.	NUMBER
A.G.	ABOVE GROUND	NR	NO REFUSAL
B	BORING	N.T.S.	NOT TO SCALE
BIT.	BITUMINOUS	O.U.	OUTSIDE DIAMETER
BM	BENCHMARK	OE	OVERHEAD ELECTRIC
CB	CATCH BASIN	OH	OVERHEAD
CMP	CORRUGATED METAL PIPE	±	PLUS OR MINUS
COMM	COMMUNICATION	PLS	PROFESSIONAL LAND SURVEYOR
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
COND.	CONDUIT	R.O.W.	RIGHT-OF-WAY
DI	DUCTILE IRON	RCP	REINFORCED CONCRETE PIPE
DIA.	DIAMETER	REIN.	REINFORCED
DMH	DRAIN MANHOLE	REQ'D	REQUIRED
DS	DOWN-SPOUT	RET	RETAINING
E	UNDERGROUND ELECTRICAL	RLS	REGISTERED LAND SURVEYOR
EL.	ELEVATION	RTE	ROUTE
EMBED.	EMBEDMENT	S	SLOPE
EX.	EXISTING	SD	STORM DRAIN
FF	FINISH FLOOR	SMH	SEWER MANHOLE
FIN.	FINISH	SCH	SCHEDULE
FL	FLOOR	SDR	STANDARD DIMENSION RATIO
FT	FOOT/FEET	STA.	STATION
GALV.	GALVANIZED	TYP.	TYPICAL
GRAN.	GRANITE	UC	UNDERGROUND CABLE
HDPE	HIGH DENSITY POLYETHYLENE	U.N.O.	UNLESS NOTED OTHERWISE
HWY	HIGHWAY	VER.	VERZON
HYD	HYDRANT	W	WEST
IN	INCH	W/	WITH
INV.	INVERT	WV	WATER VALVE
LP	LIGHT POST	WWM	WELDED WIRE MESH
LF	LINEAR FEET		
MAX.	MAXIMUM		
MIN.	MINIMUM		
MON	MONUMENT		

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PE SEAL:
MATTHEW S. CAULFIELD
REGISTERED PROFESSIONAL ENGINEER CIVIL

RIDEM PERMIT SET
CLIENT INFO:
UNIVERSITY OF RHODE ISLAND
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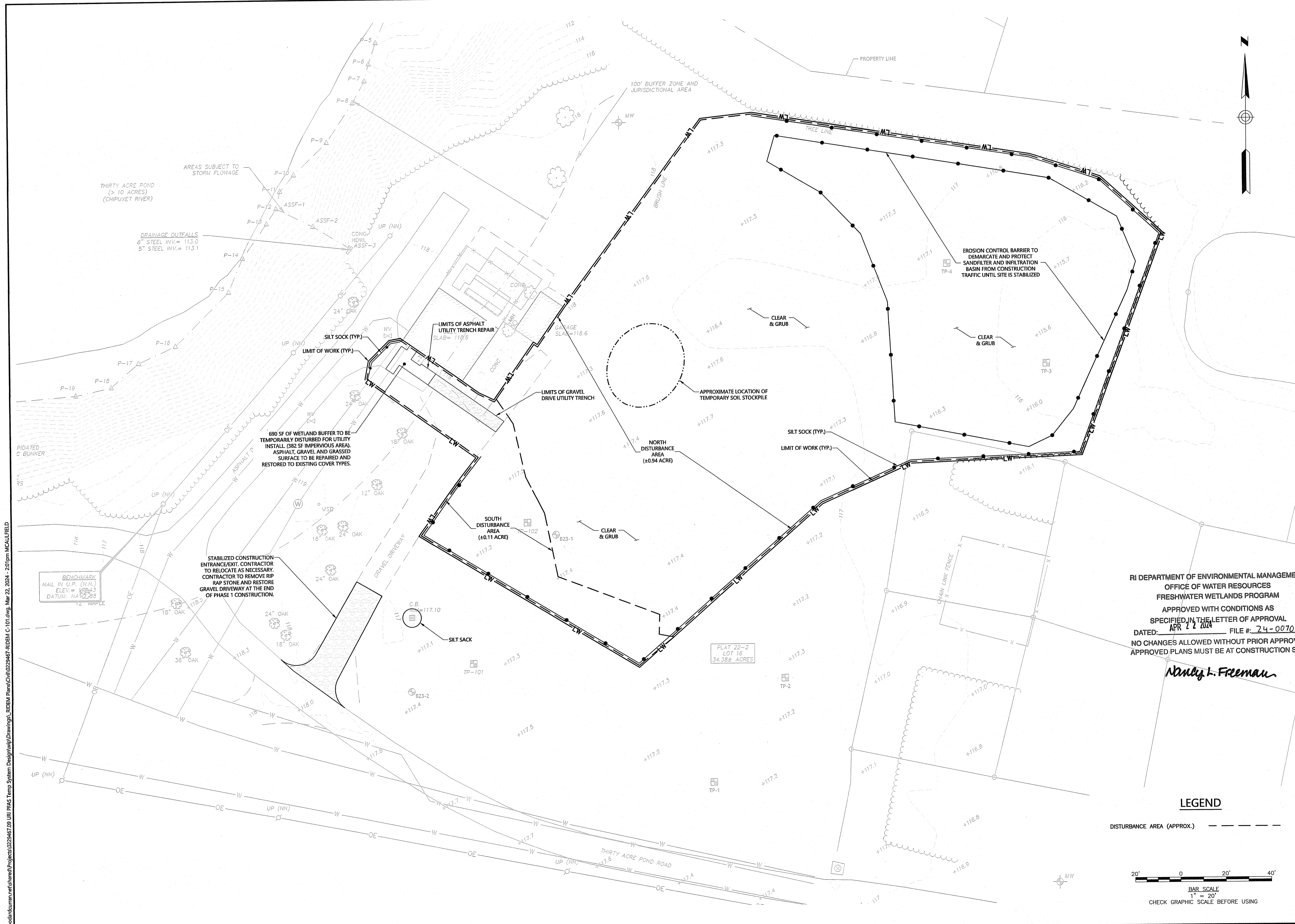
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DRAWING TITLE:
CIVIL
GENERAL NOTES & LEGEND

DRAWING NO:
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2 of 13

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PE SEAL:

MATTHEW S. CAULFIELD
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 CIVIL

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CLIENT INFO:
UNIVERSITY OF RHODE ISLAND KINGSTON, RHODE ISLAND

**URI PFAS TREATMENT FACILITY
 RIDEM WETLANDS / STORMWATER PERMITTING PLANS**

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DRAWING TITLE:
**CIVIL
 SITE PREPARATION &
 EROSION CONTROL PLAN -
 PHASE 1**

DRAWING NO:
C-101
 3 of 13

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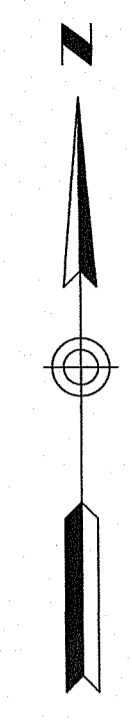
LEGEND

DISTURBANCE AREA (APPROX.) - - - - -

BAR SCALE
 1" = 20'
 CHECK GRAPHIC SCALE BEFORE USING

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BUILDING CORNER COORDINATES:		
BLDG POINT	NORTHING	EASTING
1	148312.700	316093.318
2	148288.418	316127.587
3	148314.527	316146.088
4	148338.810	316111.819
5	148349.217	316097.132
6	148410.411	316140.494
7	148375.722	316189.449
8	148251.701	316101.570
9	148275.983	316067.301



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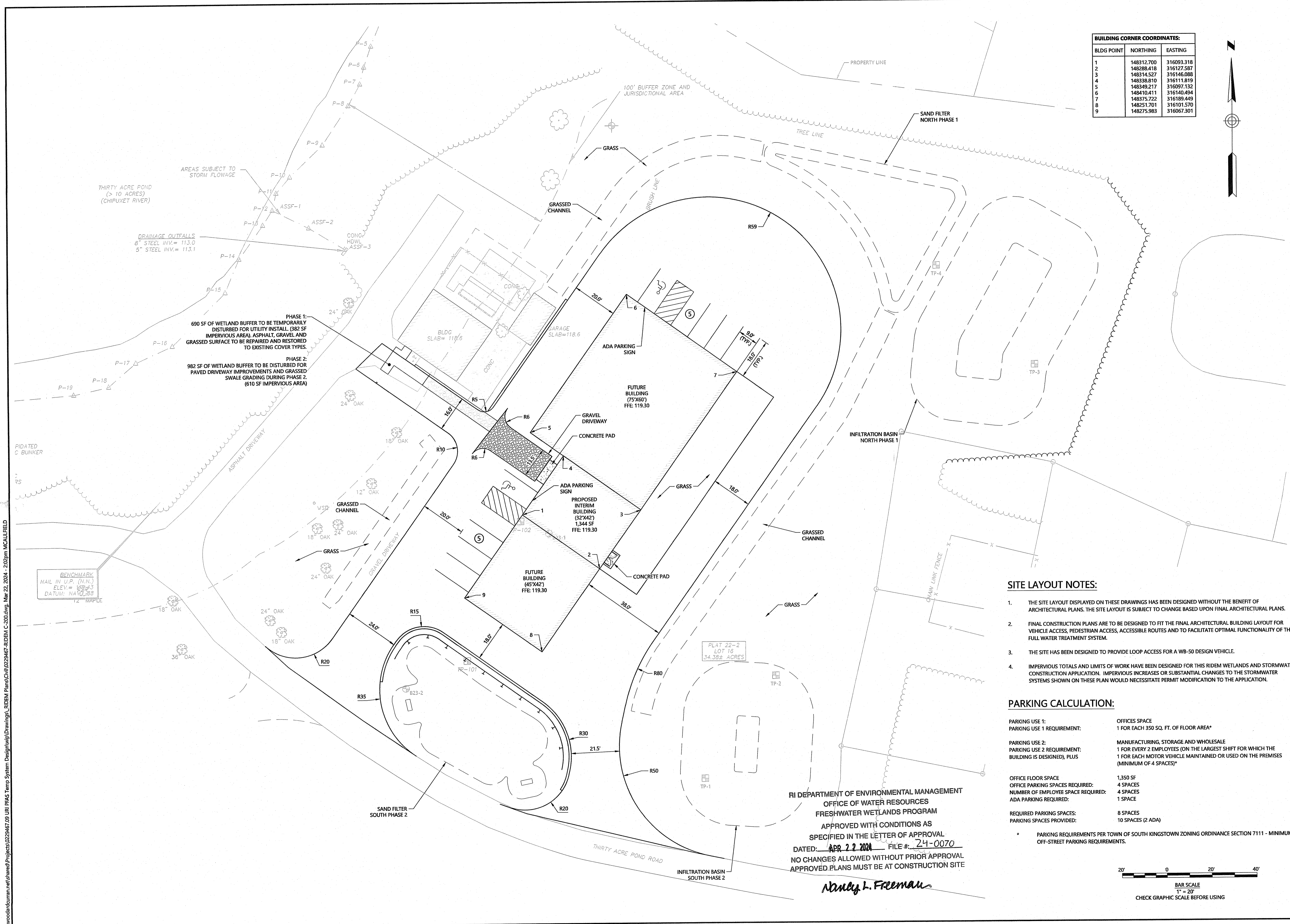
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CIVIL LAYOUT & MATERIAL PLAN

DRAWING NO: **C-200**
 5 OF 13



PHASE 1:
 690 SF OF WETLAND BUFFER TO BE TEMPORARILY DISTURBED FOR UTILITY INSTALL, 692 SF IMPERVIOUS AREA, ASPHALT, GRAVEL AND GRASSED SURFACE TO BE REPAIRED AND RESTORED TO EXISTING COVER TYPES.

PHASE 2:
 982 SF OF WETLAND BUFFER TO BE DISTURBED FOR PAVED DRIVEWAY IMPROVEMENTS AND GRASSED SWALE GRADING DURING PHASE 2. (610 SF IMPERVIOUS AREA)

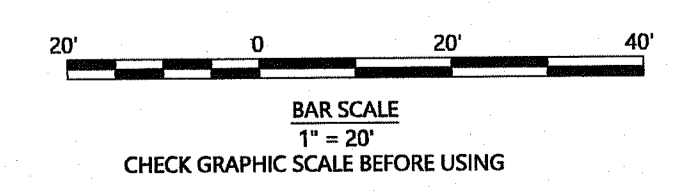
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PARKING USE 1 REQUIREMENT:	1 FOR EACH 350 SQ. FT. OF FLOOR AREA*
PARKING USE 2:	MANUFACTURING, STORAGE AND WHOLESALE
PARKING USE 2 REQUIREMENT:	1 FOR EVERY 2 EMPLOYEES (ON THE LARGEST SHIFT FOR WHICH THE BUILDING IS DESIGNED), PLUS
OFFICE FLOOR SPACE:	1,350 SF
OFFICE PARKING SPACES REQUIRED:	4 SPACES
NUMBER OF EMPLOYEE SPACE REQUIRED:	4 SPACES
ADA PARKING REQUIRED:	1 SPACE
REQUIRED PARKING SPACES:	8 SPACES
PARKING SPACES PROVIDED:	10 SPACES (2 ADA)

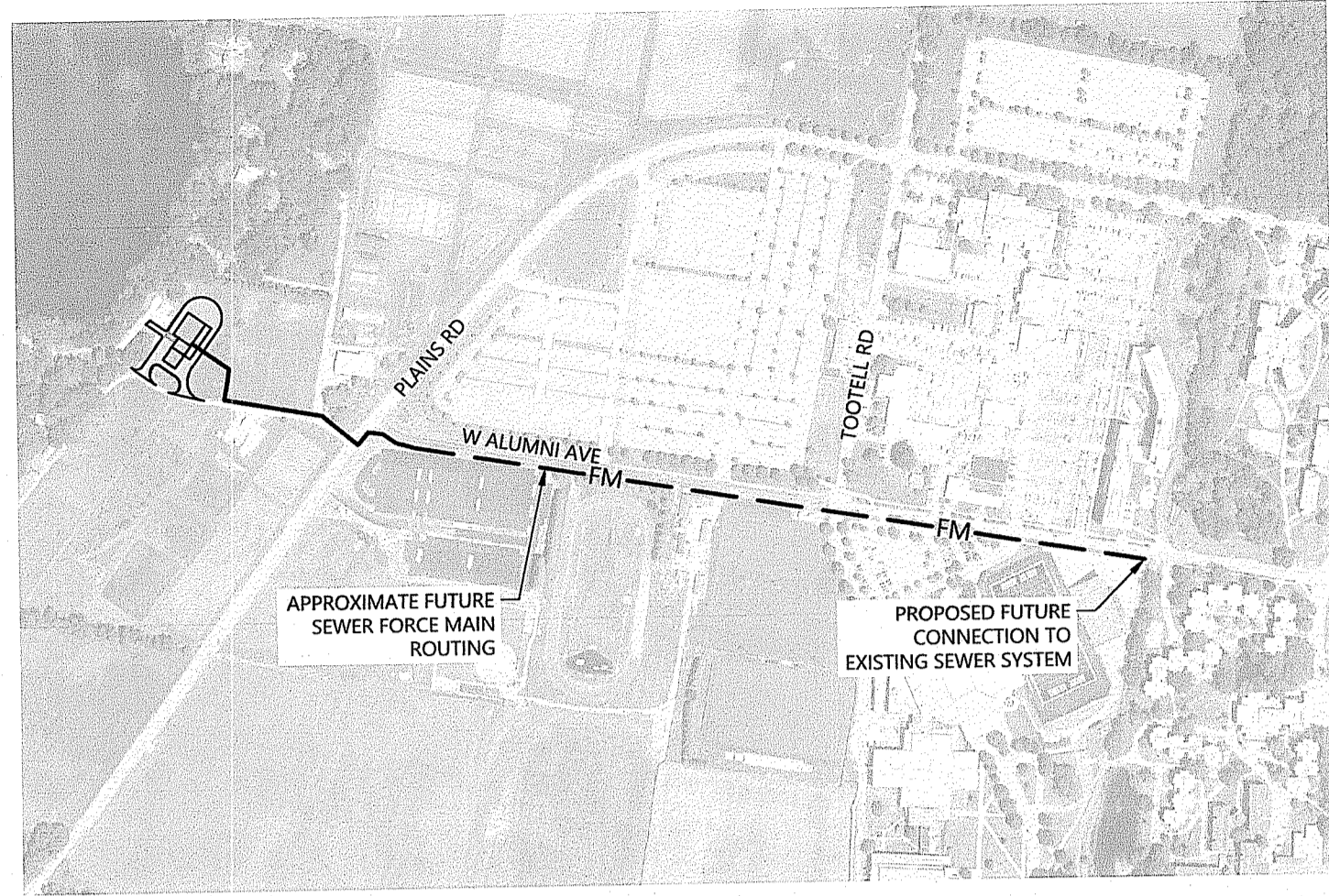
* PARKING REQUIREMENTS PER TOWN OF SOUTH KINGSTOWN ZONING ORDINANCE SECTION 7111 - MINIMUM OFF-STREET PARKING REQUIREMENTS.



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Nancy L. Freeman

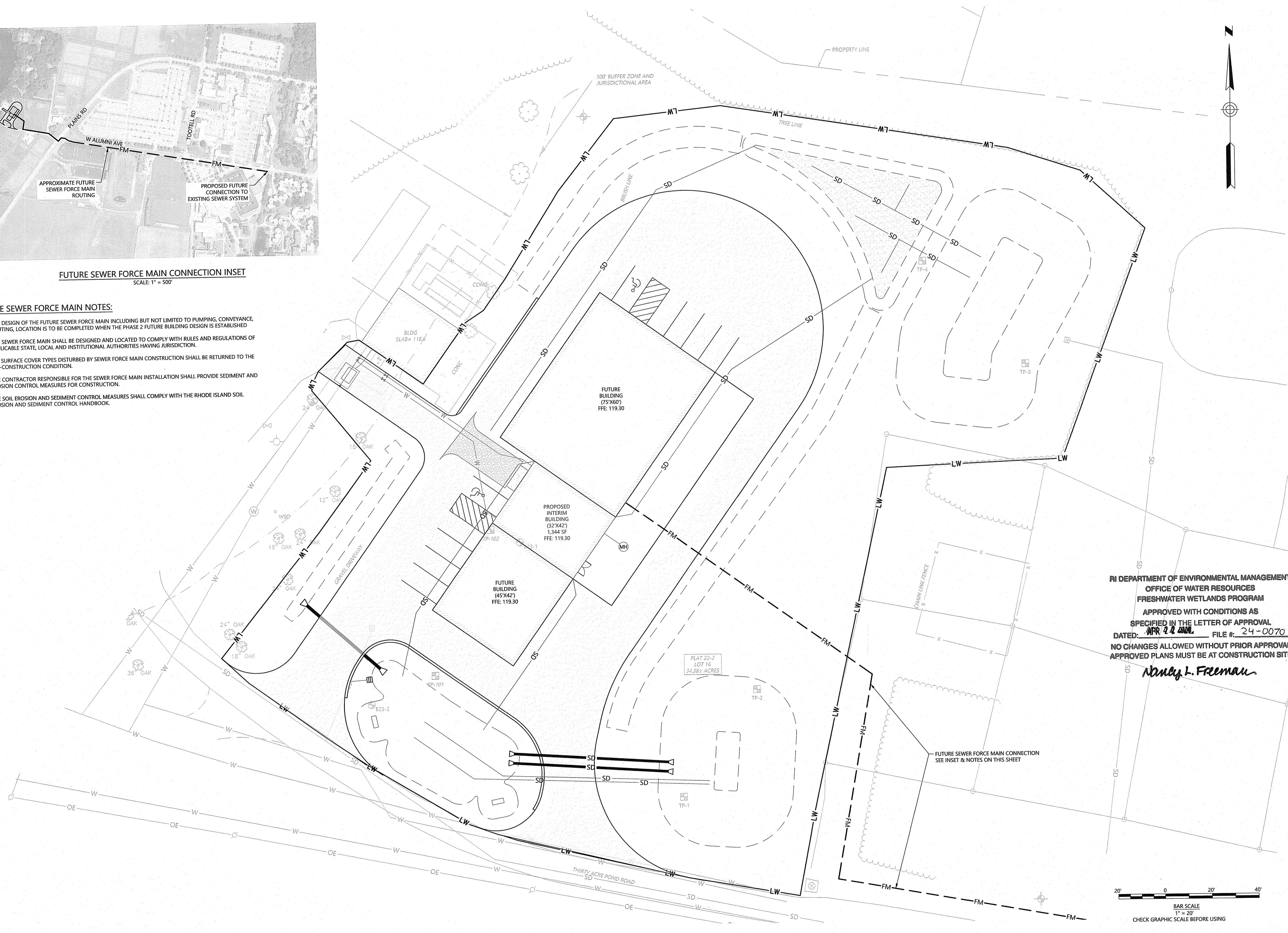
\\woodardcurran.net\shared\Projects\0229467\09 URI PFAS Temp System Design\Drawings\RIDEM Plans\Civil\0229467-RIDEM C-200.dwg, Mar 22, 2024, 2:02pm MCAULFIELD



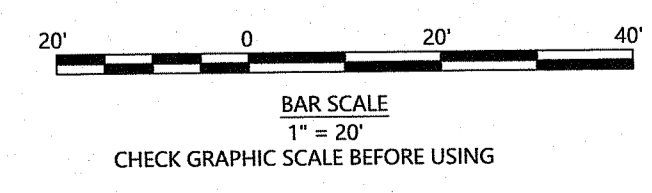
FUTURE SEWER FORCE MAIN CONNECTION INSET
SCALE: 1" = 500'

FUTURE SEWER FORCE MAIN NOTES:

1. THE DESIGN OF THE FUTURE SEWER FORCE MAIN INCLUDING BUT NOT LIMITED TO PUMPING, CONVEYANCE, ROUTING, LOCATION IS TO BE COMPLETED WHEN THE PHASE 2 FUTURE BUILDING DESIGN IS ESTABLISHED.
2. THE SEWER FORCE MAIN SHALL BE DESIGNED AND LOCATED TO COMPLY WITH RULES AND REGULATIONS OF APPLICABLE STATE, LOCAL AND INSTITUTIONAL AUTHORITIES HAVING JURISDICTION.
3. ALL SURFACE COVER TYPES DISTURBED BY SEWER FORCE MAIN CONSTRUCTION SHALL BE RETURNED TO THE PRE-CONSTRUCTION CONDITION.
4. THE CONTRACTOR RESPONSIBLE FOR THE SEWER FORCE MAIN INSTALLATION SHALL PROVIDE SEDIMENT AND EROSION CONTROL MEASURES FOR CONSTRUCTION.
5. THE SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.



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PE SEAL:
 MATTHEW S. CAULFIELD
 No. 12070
 REGISTERED
 PROFESSIONAL ENGINEER
 CIVIL

RIDEM PERMIT SET
 CLIENT INFO:
 UNIVERSITY OF RHODE ISLAND
 KINGSTON, RHODE ISLAND
 URI PFAS TREATMENT FACILITY
 RIDEM WETLANDS /
 STORMWATER PERMITTING
 PLANS

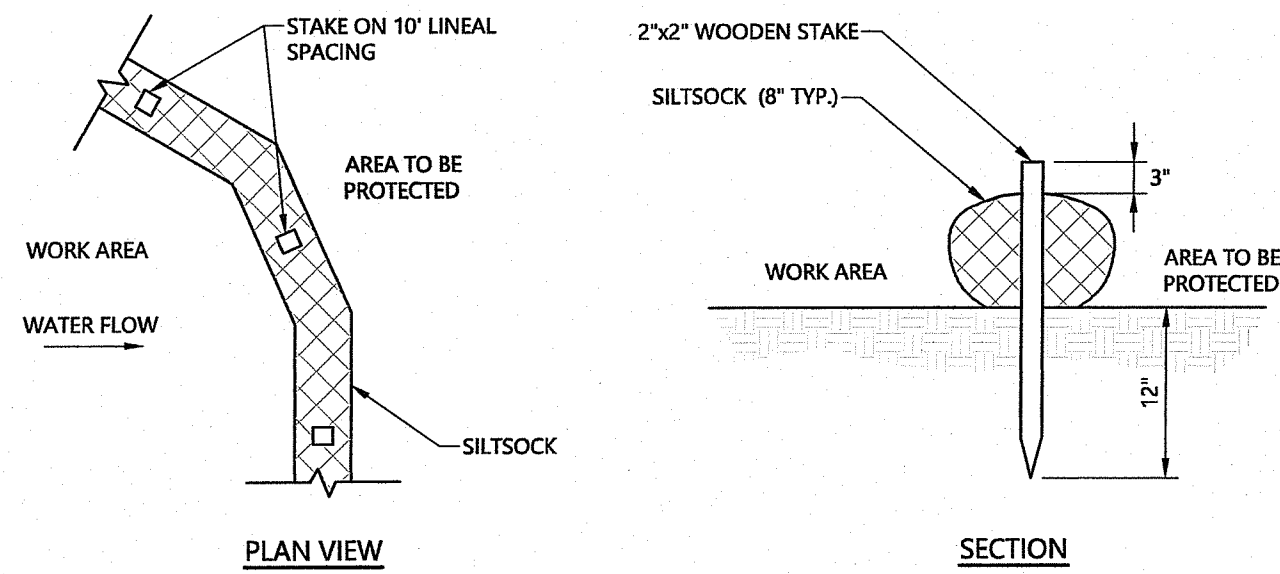
REV	MM/DD/YY	DESCRIPTION

JOB NO:	0229467.09
DATE:	MARCH 22, 2024
SCALE:	AS NOTED
DESIGNED BY:	CJ
DRAWN BY:	ZS
CHECKED BY:	MC
FILENAME:	0229467-RIDEM C-401.dwg

DRAWING TITLE:
CIVIL
UTILITY PLAN - PHASE 2

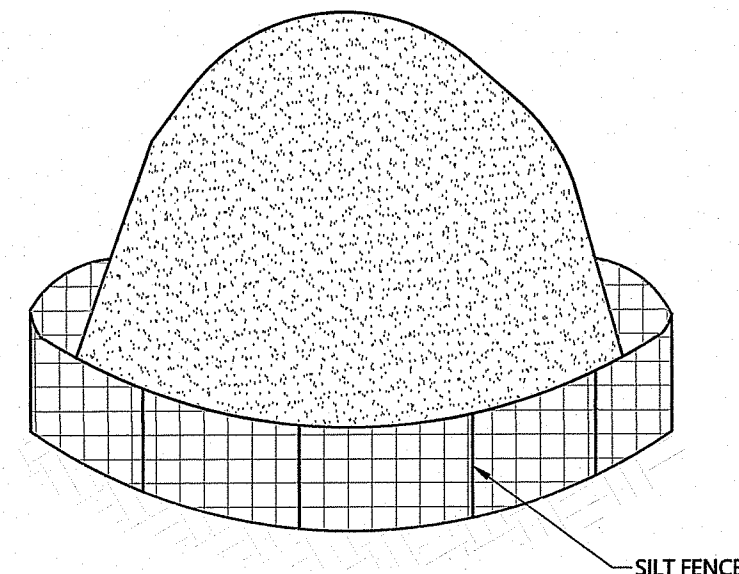
DRAWING NO:
C-401
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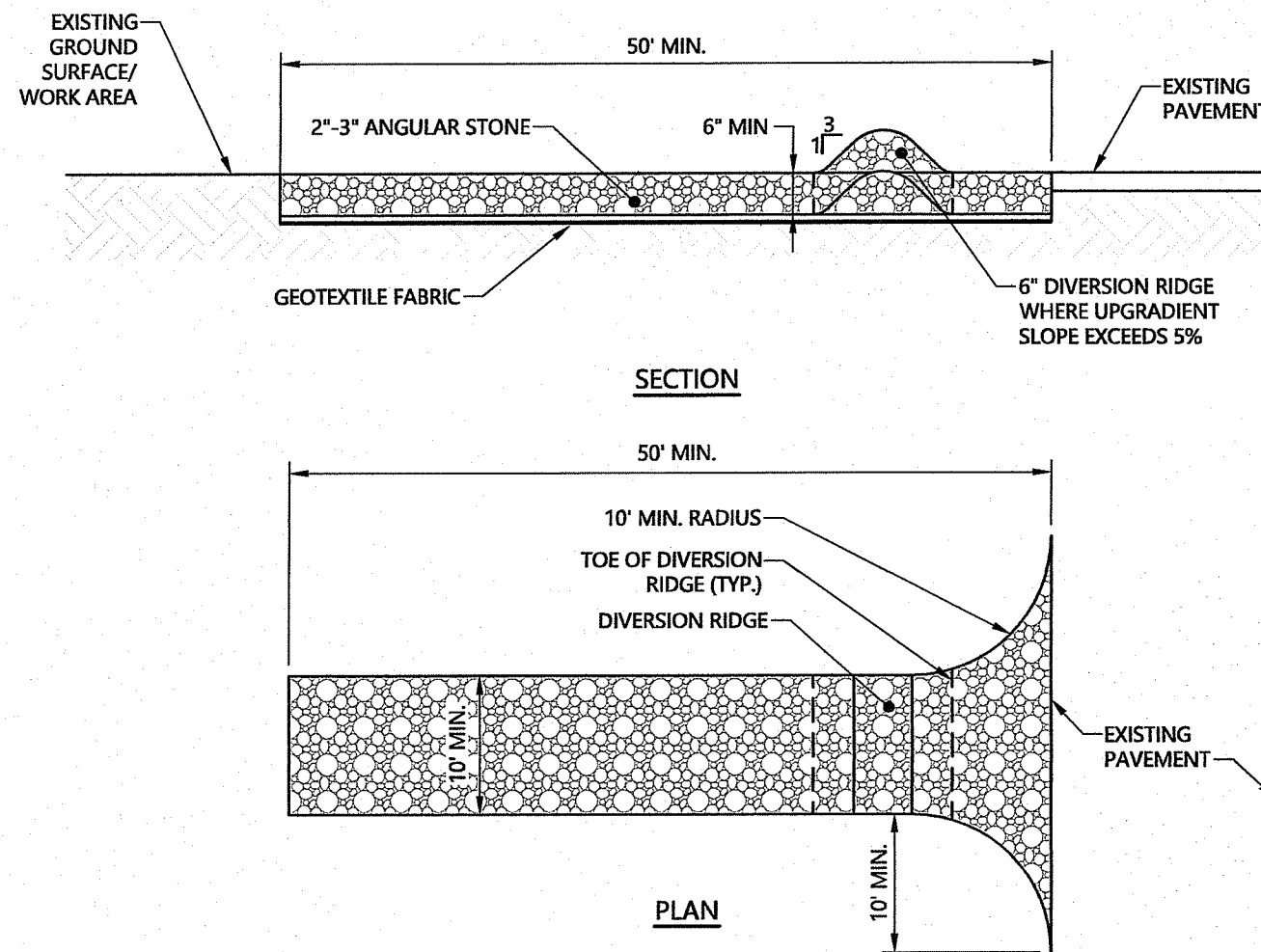
NOTE:
1. WHEN STAKING IS NOT POSSIBLE, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SEDIMENT CONTROL TO HELP STABILIZE DURING RAINFALL/RUNOFF EVENTS.

SILT SOCK
NOT TO SCALE



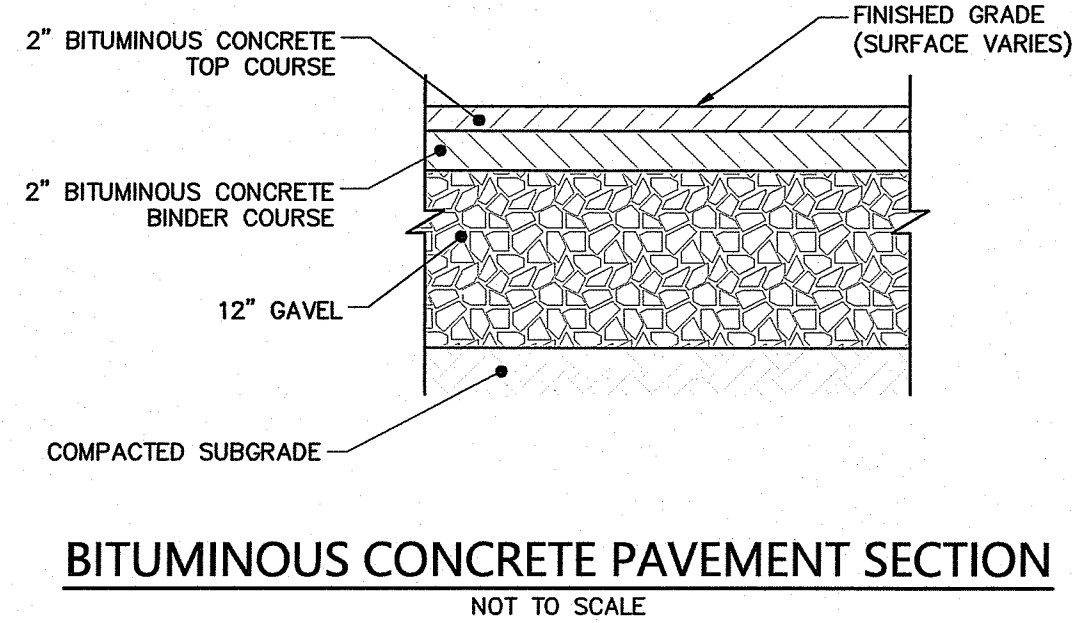
- NOTES:**
1. STOCKPILES SHALL BE SURROUNDED BY SILT FENCE.
 2. STOCKPILES SHALL HAVE A MAXIMUM 2:1 (H:V) SIDE SLOPE.
 3. REPAIR OR REPLACE DAMAGED SILT FENCE DUE TO CONSTRUCTION ACTIVITIES OR STOCKPILE MITIGATION.
 4. STOCKPILE SHALL BE LOCATED IN AREAS AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

TEMPORARY SOIL STOCKPILE
NOT TO SCALE

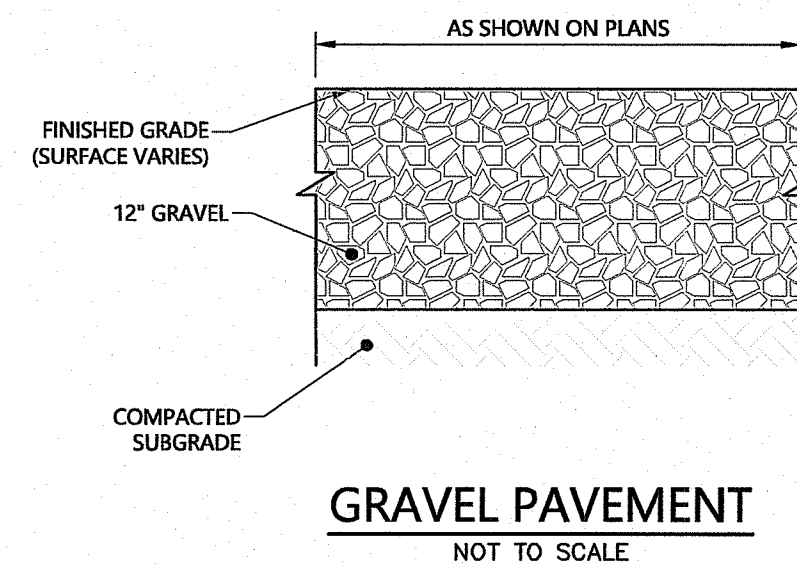


- NOTES:**
1. GRADE TOWARDS SEDIMENT BARRIER WHEN NECESSARY TO MANAGE FLOW.
 2. INCREASE MINIMUM LENGTH TO 100' WHERE TRACKED SEDIMENTS CONTAIN LESS THAN 80% SAND OR AS NECESSARY FOR HEAVY CONSTRUCTION.

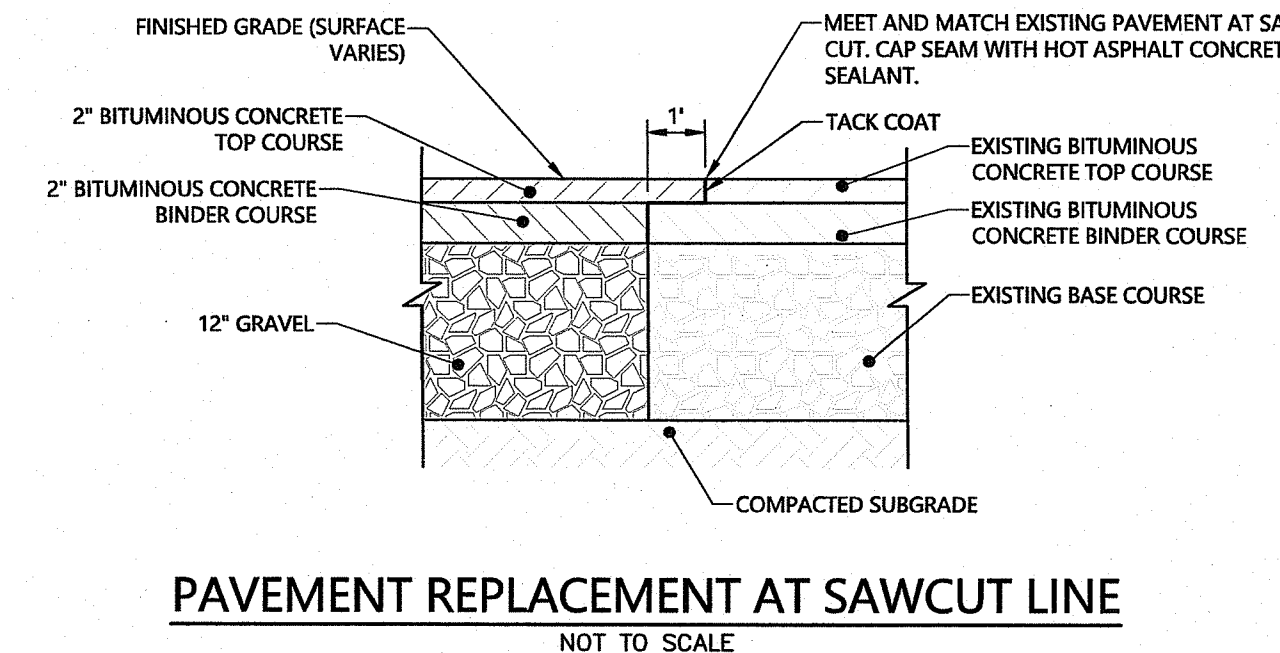
STABILIZED CONSTRUCTION ENTRANCE/EXIT
NOT TO SCALE



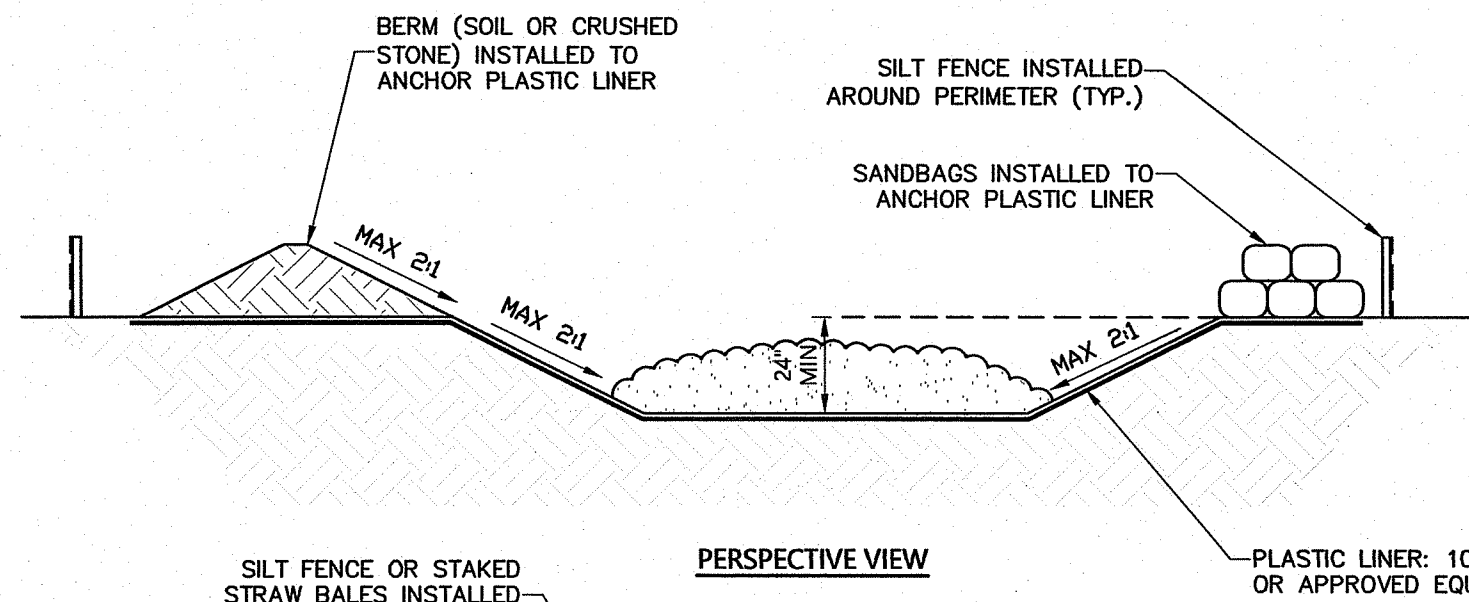
BITUMINOUS CONCRETE PAVEMENT SECTION
NOT TO SCALE



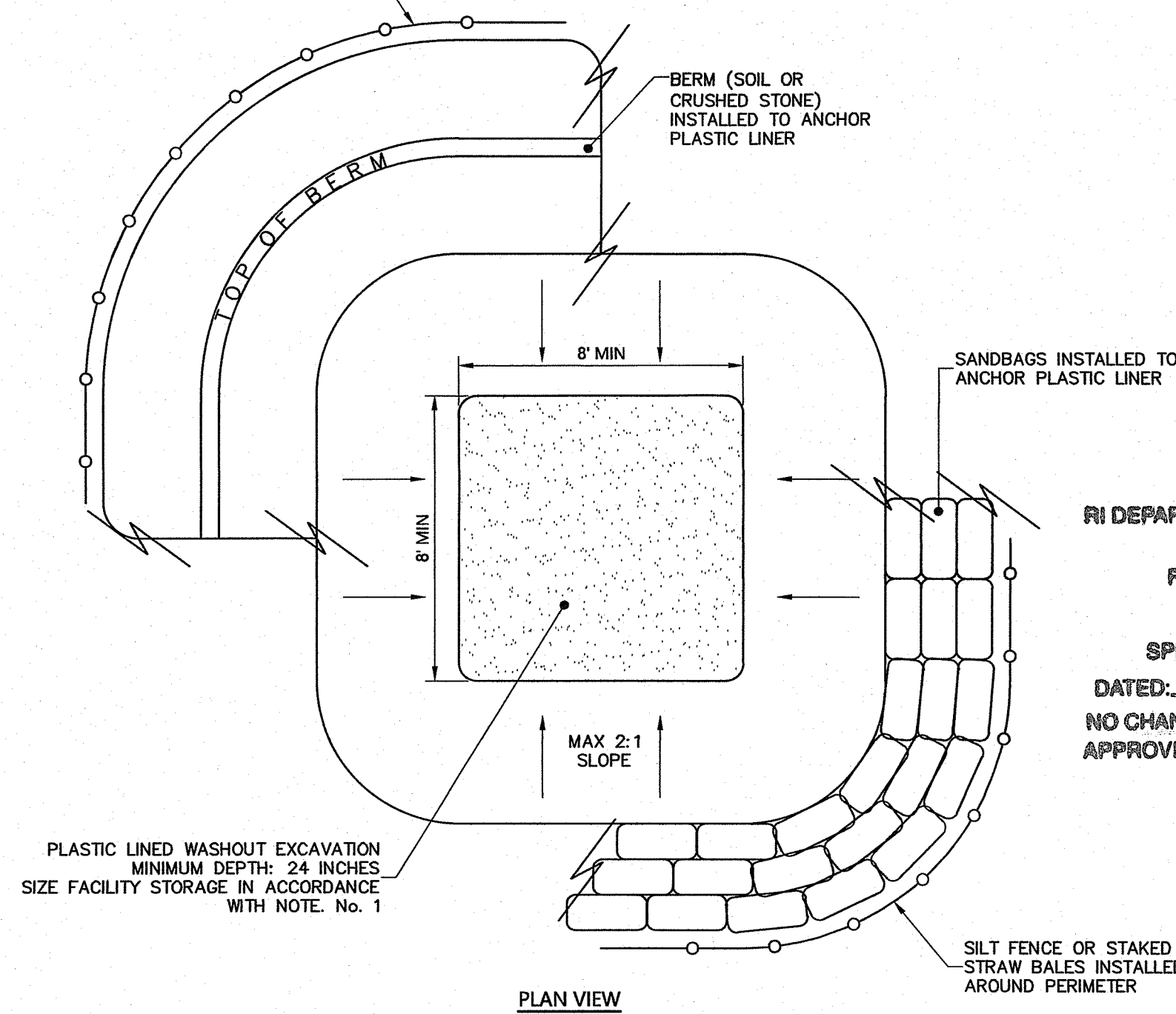
GRAVEL PAVEMENT
NOT TO SCALE



PAVEMENT REPLACEMENT AT SAWCUT LINE
NOT TO SCALE



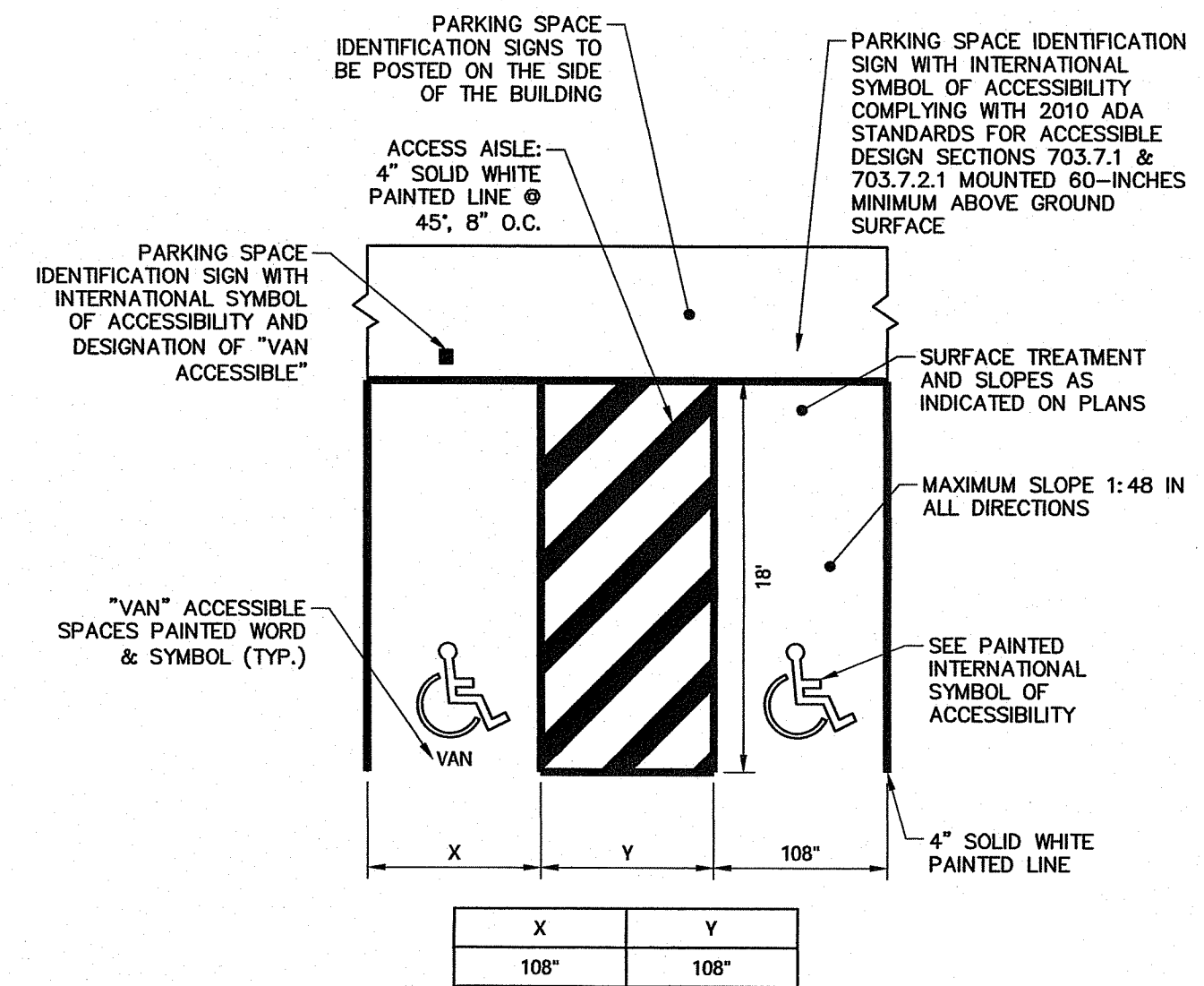
PERSPECTIVE VIEW



PLAN VIEW

- NOTES:**
1. SIZE WASHOUT FACILITY TO PROVIDE REQUIRED CAPACITY TO ALLOW FOR PLANNED CONCRETE POUR ACTIVITIES BETWEEN FACILITY MAINTENANCE AS DESCRIBED IN NOTE 9. THE FOLLOWING RELATIONSHIPS CAN BE USED TO ESTIMATE REQUIRED CAPACITY. MINIMUM FACILITY DIMENSIONS SHALL BE CONSTRUCTED AS NOTED ON DETAIL.
REQUIRED WASH WATER
TRUCK CHUTE 7 GAL
HOPPER 50 GAL
 2. CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED, INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE NYSDEC NEW YORK STANDARDS & SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION.
 3. LOCATE WASHOUT FACILITY MINIMUM OF 100 FEET AWAY FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS.
 4. WASHOUT FACILITY SHALL BE LINED WITH MINIMUM 10 MIL THICKNESS PLASTIC SHEETING OR EQUIVALENT WATERTIGHT BARRIER APPROVED BY THE DIRECTOR'S REPRESENTATIVE.
 5. LINER SHALL BE MAINTAINED FREE OF TEARS AND PUNCTURES AT ALL TIMES.
 6. ANCHOR LINER AT TOP OF EXCAVATION WITH EARTHEN BERM, SANDBAGS OR STONE AS SHOWN ON THE DETAIL.
 7. SURROUND WASHOUT FACILITY WITH SILT FENCE OR STAKED STRAW BALES.
 8. ALL WASHOUT FACILITIES SHALL BE INSPECTED DAILY.
 9. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75 PERCENT OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO AN ACCEPTABLE CONTAINMENT VESSEL AND DISPOSED OFFSITE IN ACCORDANCE WITH LOCAL REGULATIONS.
 10. PLASTIC LINER SHALL BE REPLACED WITH REMOVAL OF ACCUMULATED HARDENED MATERIAL.
 11. LOCATION TO BE APPROVED BY DIRECTOR'S REPRESENTATIVE.

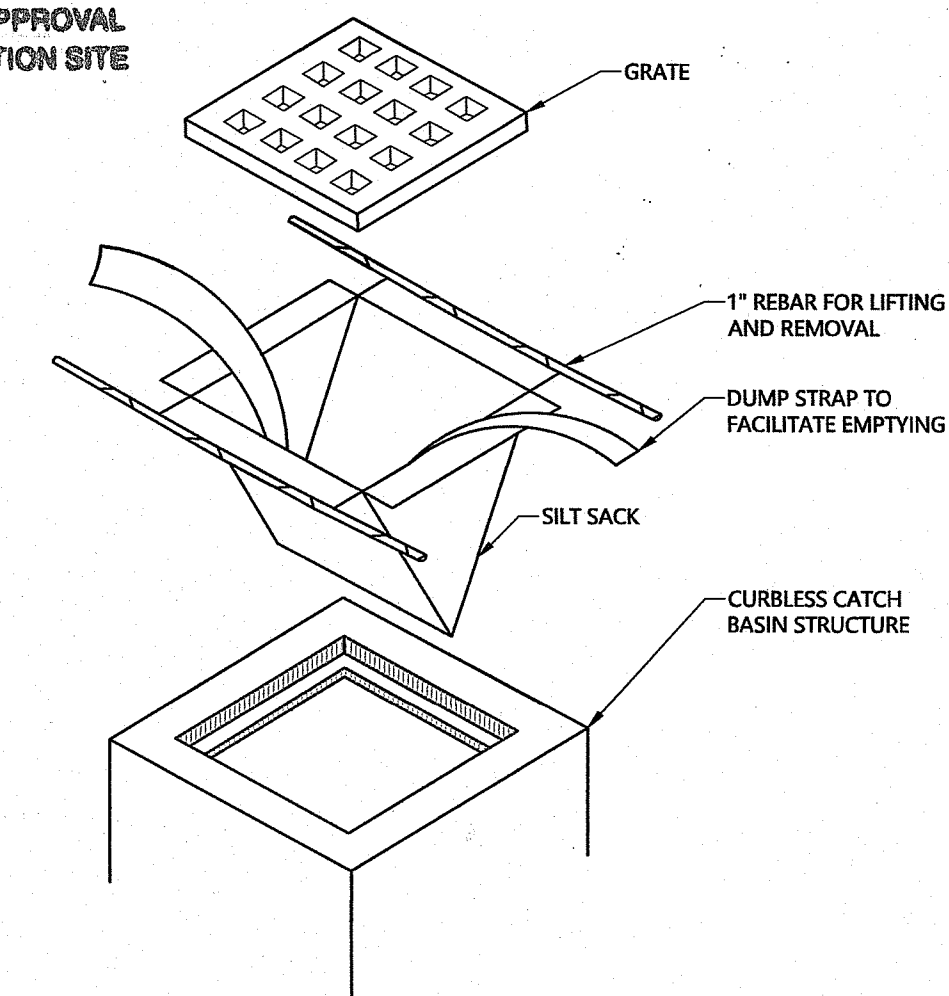
CONCRETE WASHOUT FACILITY
NOT TO SCALE



ACCESSIBLE PARKING STALL LAYOUT
NOT TO SCALE

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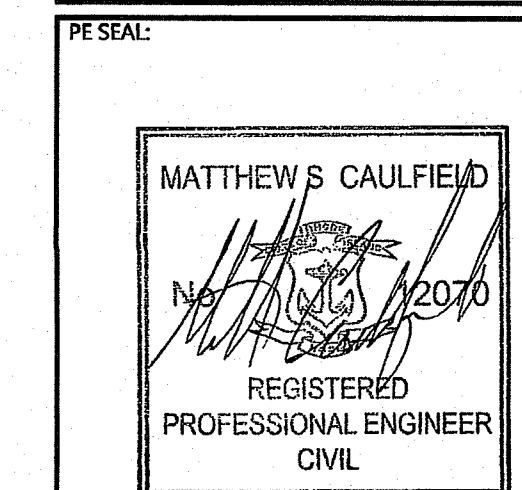


- NOTES:**
1. INSTALL SILTSACK PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
 2. EMPTY OR REMOVE SEDIMENT FROM SILTSACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE, AND REPLACE AS NEEDED.
 3. SILT SACKS TO BE INSTALLED WHEN THE POTENTIAL FOR SEDIMENT TO ENTER EXISTING & PROPOSED BASINS EXISTS.

SILTSACK- CURBLESS INLET
NOT TO SCALE



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RIDEM PERMIT SET

CLIENT INFO:
UNIVERSITY OF RHODE ISLAND
KINGSTON, RHODE ISLAND

URI PFAS TREATMENT FACILITY
RIDEM WETLANDS /
STORMWATER PERMITTING
PLANS

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DRAWING TITLE:
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CIVIL DETAILS - 1

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C-500
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