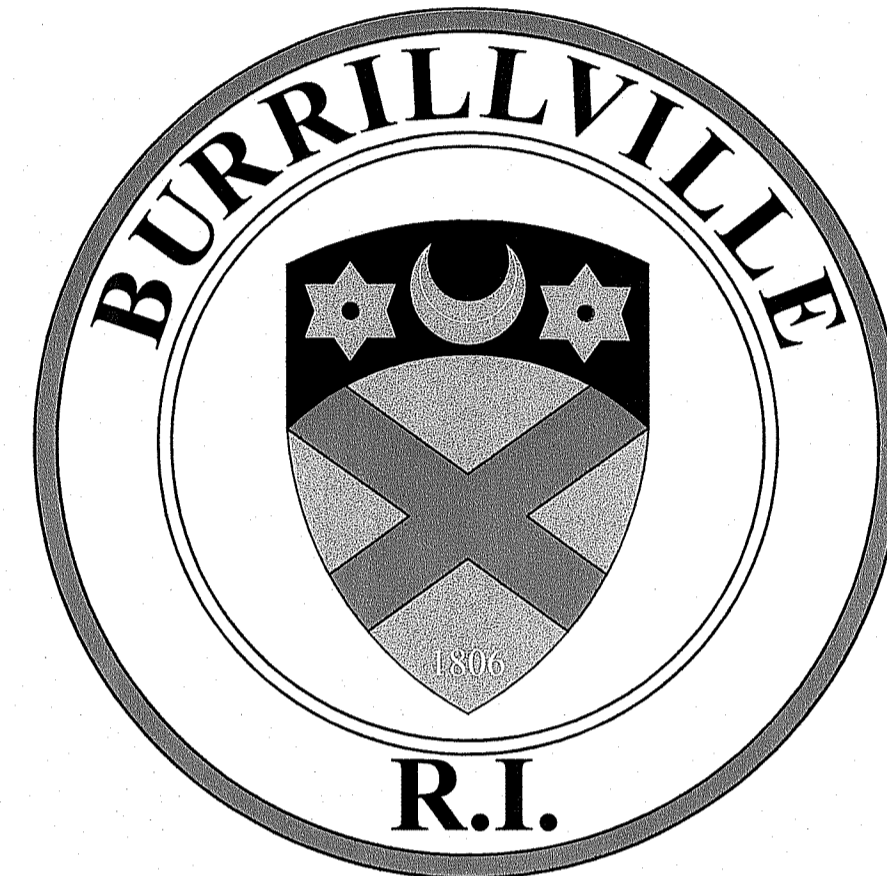


SITE IMPROVEMENT PLANS AND DETAILS FOR  
**SYNTHETIC TURF ATHLETICS FIELD**  
**BURRILLVILLE HIGH SCHOOL**  
 425 EAST AVENUE

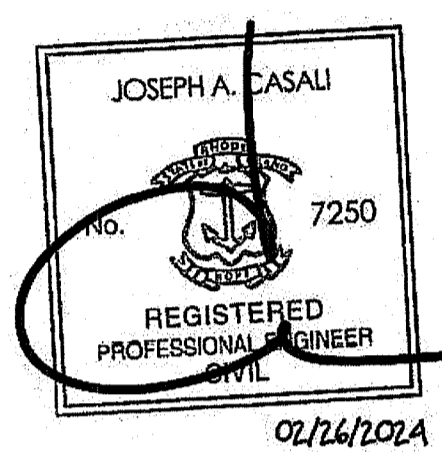
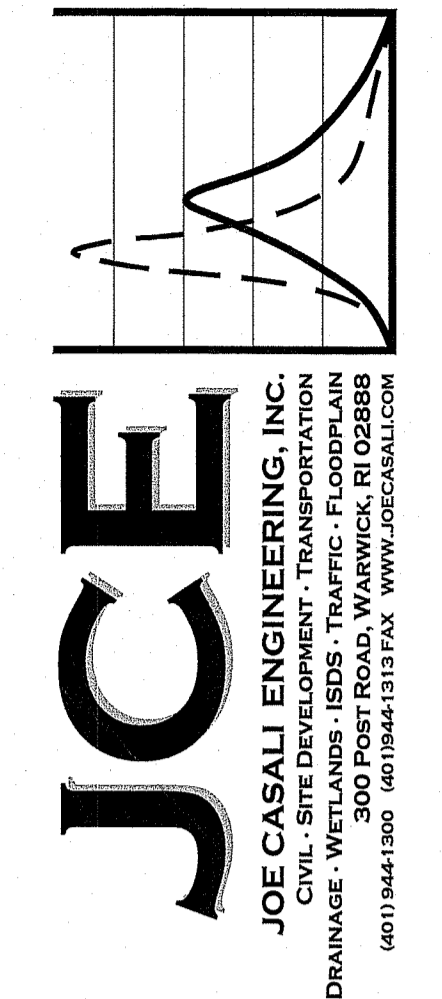


**BURRILLVILLE, RHODE ISLAND**

MICHAEL C. WOOD, TOWN MANAGER  
 DR. MICHAEL SOLLITTO, SUPERINTENDENT OF SCHOOLS  
 JEFFREY M. McCORMICK, P.E., DIRECTOR OF PUBLIC WORKS  
 BILL ROBINSON, FACILITIES DIRECTOR

ISSUED FOR PERMIT: NOVEMBER 2023; REVISED FEBRUARY 2024

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 NOTE PER DEM:  
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site



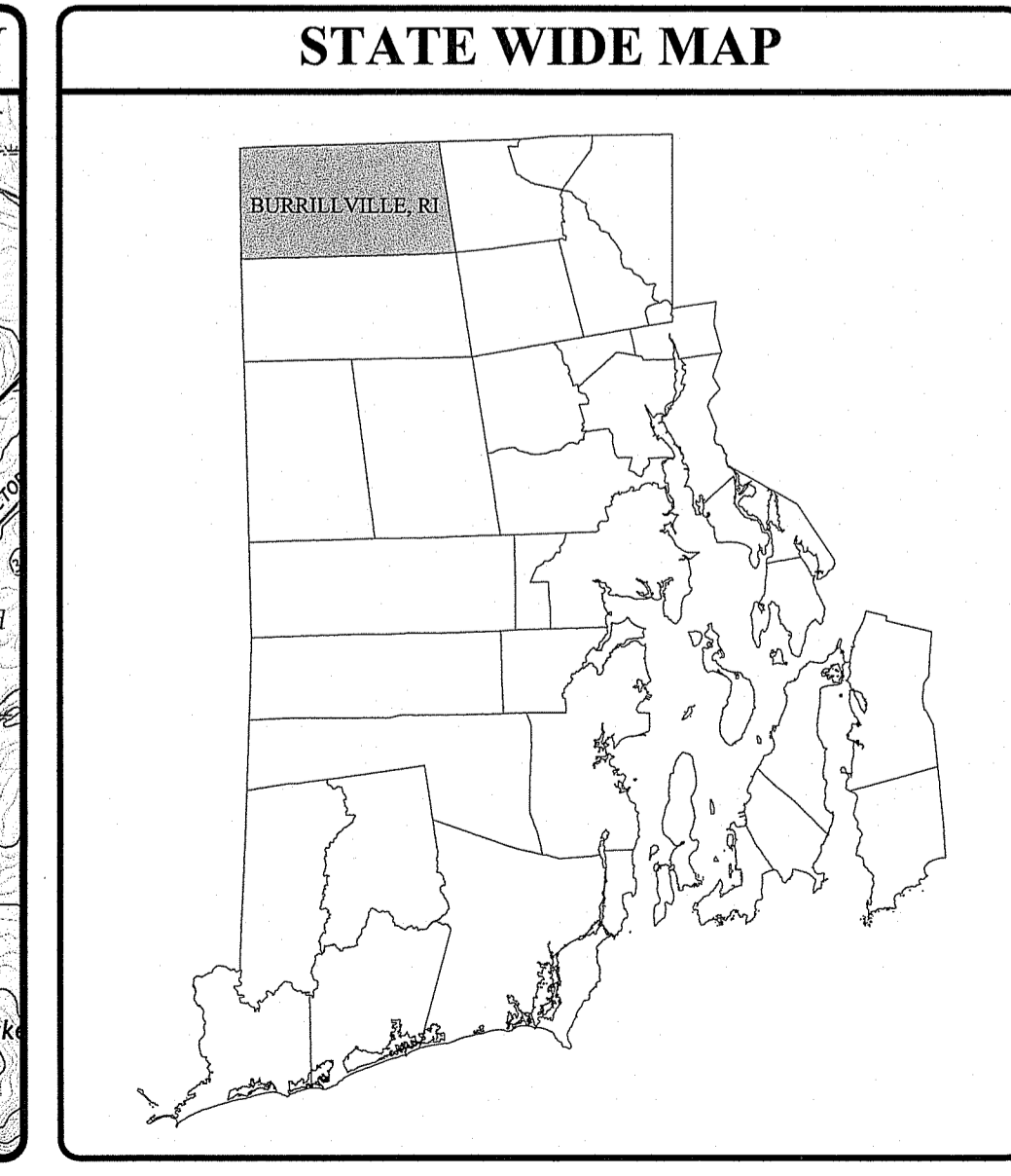
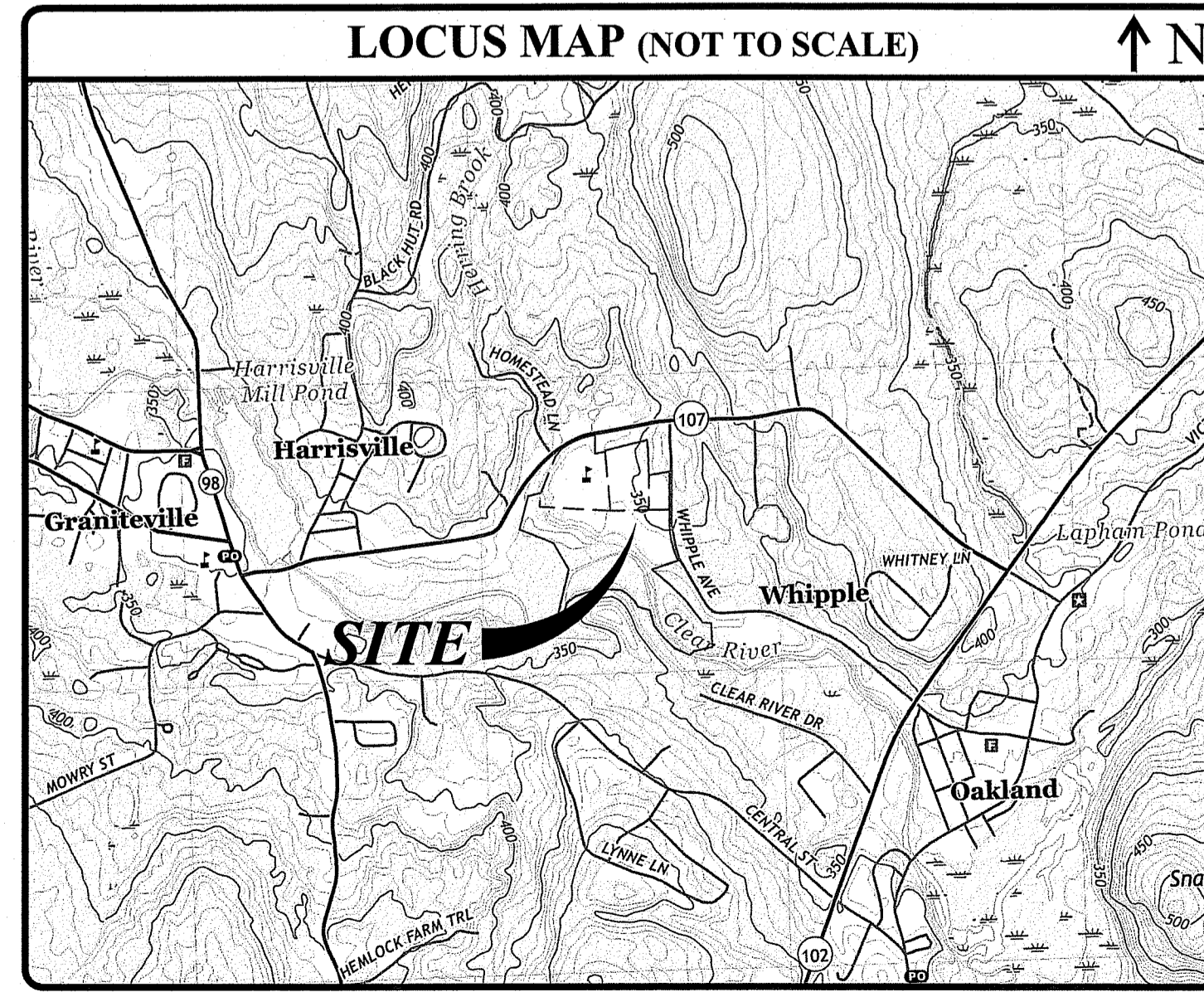
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: APR 11 2024 FILE #: 23-0256  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Douglas L. Freeman*

RI Environmental Management  
 FEB 26 2024  
 Office of Water Resources

**BURRILLVILLE HIGH SCHOOL**  
**SYNTHETIC TURF ATHLETICS FIELD**  
 425 EAST AVENUE  
 BURRILLVILLE, RHODE ISLAND  
 AP 144, LOT 26 & AP 161, LOT 5



PROJECT TEAM	
<b>OWNER:</b>	TOWN OF BURRILLVILLE ATTN: JEFF M. McCORMICK, P.E., DPW DIRECTOR 105 HARRISVILLE MAIN STREET BURRILLVILLE, RI 02830 PHONE: 401-568-4440 FAX: 401-568-9469
<b>CIVIL ENGINEER:</b>	JOE CASALI ENGINEERING, INC. 300 POST ROAD WARWICK, RI 02888 PHONE: 401-944-1300 FAX: 401-944-1313
<b>SURVEYOR:</b>	WATERMAN ENGINEERING CO. 46 SUTTON AVENUE EAST PROVIDENCE, RI 02914 PHONE: 401-438-5775
<b>WETLAND BIOLOGIST:</b>	NATURAL RESOURCE SERVICES, INC. P.O. BOX 311 HARRISVILLE, RI 02830 PHONE: 401-568-7390



INDEX OF DRAWINGS	
SHEET NO.	PLAN
1	COVER SHEET
2	GENERAL NOTES & LEGEND
3	EXISTING CONDITIONS & SITE PREPARATION PLAN
4	SITE PLAN
5	GRADING & DRAINAGE PLAN
6	UTILITY PLAN
7	RI STANDARD DETAILS
8	SITE DETAILS I
9	SITE DETAILS II
10	SITE DETAILS III
11	SITE DETAILS IV
12	SITE DETAILS V
13	FIELD PROFILE
14	SUBSURFACE EXPLORATION LOGS I
15	SUBSURFACE EXPLORATION LOGS II
R1 - R4	EXISTING CONDITIONS & TOPOGRAPHIC SURVEY PLAN, PREPARED BY WATERMAN ENGINEERING COMPANY, DATED APRIL 2023

REVISIONS:		
NO.	DATE	DESCRIPTION
1	2/26/24	RIDEM RTC

DESIGNED BY: DRD  
 DRAWN BY: SD/SEP  
 CHECKED BY: JAC  
 DATE: NOV. 2023  
 PROJECT NO: 05-926f

PRELIMINARY, NOT FOR CONSTRUCTION

**COVER SHEET**

**SHEET 1 OF 19**

Q:\05-92 Town of Burrillville\05-92cf High School Field\ACAD\Burrillville High School (RIDEW-RTC).dwg Feb. 26, 2024 8:07am

**GENERAL NOTES:**

- A CLASS I (PARTIAL BOUNDARY SURVEY) LIMITED CONTENT BOUNDARY AND CLASS III EXISTING CONDITIONS/TOPOGRAPHIC SURVEY WAS PERFORMED BY WATERMAN ENGINEERING CO., DATED APRIL 2023. SUPPLEMENTAL PROPERTY LINE AND BOUNDARIES AND EXISTING CONDITIONS INFORMATION OBTAINED FROM TOWN OF BURRILLVILLE TAX ASSESSORS' MAPS, TOWN OF BURRILLVILLE GEOGRAPHIC INFORMATION SYSTEM DATABASES AND RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT ENVIRONMENTAL RESOURCE MAPPING DATABASE.
- THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
- THE MAJORITY OF THE SITE IMPROVEMENTS LIE WITHIN ZONE X (AREAS OUTSIDE THE 500-YEAR FLOOD PLAIN), AS SHOWN ON THE FIRM MAP FOR PROVIDENCE COUNTY, TOWN OF BURRILLVILLE, RI, MAP NUMBER 44007C0135G, EFFECTIVE DATE MARCH 2, 2009. A SMALL PORTION OF THE PROJECT LIES WITHIN FLOOD ZONE X (0.2% ANNUAL CHANCE FLOOD). A VERY SMALL PORTION OF THE PROJECT SITE LIES WITHIN FLOOD ZONE AE (WITH BASE FLOOD ELEVATION DETERMINED - 318 FEET).
- BASED ON SOILS MAPPING PREPARED BY THE USDA, SOILS ON THE SITE CONSIST OF MERRIMAC FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES (MmB). MmB SOILS GENERALLY CONSIST OF GRAVELLY LOAMY SAND WITH A DEPTH TO THE SEASONAL HIGH GROUNDWATER TABLE OF GREATER THAN 80-INCHES, BELONGING TO HYDROLOGIC SOIL GROUP A. JCE ENGAGED SAGE ENVIRONMENTAL DRILLING SERVICES, INC. TO DRILL 16 BORINGS WITHIN THE PROPOSED AREA OF IMPROVEMENTS (B-1 THROUGH B-16) IN MARCH 2023 AND ARE PROVIDED ON SHEETS 10 - 11 OF THIS PLANSET.

**SITE NOTES:**

- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS AT NO ADDITIONAL COST TO THE TOWN.
- STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
- ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR OR A RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER.
- ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
- WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE TOWN AT NO ADDITIONAL COST TO THE OWNER.
- ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER OR TOWN.
- THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION.
- THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
- ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED. REFER TO TRAFFIC MANAGEMENT PLANS.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AT COMPLETION OF EACH DAYS WORK.
- WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
- ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.
- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
- ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, ROADWAY CONSTRUCTION, AGGREGATE MATERIALS, DRAINAGE STRUCTURES, CURBING, SIDEWALK, LANDSCAPING, SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2004 EDITION (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).

**MISCELLANEOUS UTILITY NOTES:**

- PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- THE UTILITY PLAN DOES NOT DEPICT THE NECESSARY ELECTRICAL CONDUIT/WIRING TO SERVICE THE PROPOSED LIGHTING, WHICH WILL BE PERFORMED BY THE CONTRACTOR FOR NO ADDITIONAL COST.
- OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THEIR OPERATIONS.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.
- EXISTING UTILITY FRAMES AND COVERS FOR SANITARY SEWER, WATER, GAS, STORM DRAINAGE AND OTHER UTILITIES SHALL BE ADJUSTED TO GRADE AS REQUIRED IN NEW PAVING AND PAVEMENT OVERLAY AREAS.

**LAYOUT NOTES:**

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND 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 ITEMS FOUND WHICH DO NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.

**SOIL EROSION AND SEDIMENTATION CONTROL NOTES**

- THE SILT FENCE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.
- THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
- ALL CATCH BASINS AND CULVERTS SHALL BE PROTECTED WITH STAKED HAYBALES (R.I. STD. 9.8.0) DURING CONSTRUCTION ACTIVITIES. ALL PROPOSED STORM WATER DISCHARGE AREAS SHALL BE LINED WITH A RIPRAP SPLASH PAD AND PROTECTED WITH STAKED HAYBALE WITH SILT FENCE (R.I. STD. 9.3.0) AND STAKED HAYBALE WITH SILT FENCE SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS WHERE DISTRIBUTING PIPES, CATCH BASINS, AND MANHOLES ARE TO BE CLEANED AND FLUSHED.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND IS MAINTAINED.
- ALL SILT FENCE, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
- THE SILT FENCE SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY SILT FENCE AS NEEDED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.
- ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", UPDATED 2016.

**LOAMING & SEEDING**

SEEDING ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH SECTION L.02 SEEDING OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2010 EDITION (WITH LATEST ADDENDA), AND SHALL ALSO CONFORM TO THE FOLLOWING:

- AFTER ROUGH GRADING IS COMPLETED, ALL DISTURBED AREAS AND AREAS LABELED AS LOAM AND SEED ARE TO BE BROUGHT TO AN ELEVATION OF 6" BELOW THE PROPOSED FINISHED GRADE. SCARIFY THE SUBGRADE TO A DEPTH OF 12" WITH THE TEETH OF A BACKHOE OR A POWER RAKE TO RESULT IN AN UNCOMPACTED SUBSOIL. 6" OF GOOD QUALITY TOPSOIL IS TO BE APPLIED AND RAKED TO FINISHED GRADE.
- THE TOPSOIL IS TO BE GOOD QUALITY LOAM, FERTILE AND FREE OF WEEDS, STICKS AND STONES OVER 3/4" IN SIZE AND OTHERWISE COMPLYING WITH SECTION M.18.01 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2010 EDITION (WITH LATEST ADDENDA).
- PRIOR TO SEEDING OR SODDING, FERTILIZE WITH 10-10-10 OR EQUIVALENT ANALYSIS. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE IN SLOW RELEASE FORM. INCORPORATE THE FERTILIZER INTO THE TOP 1-2" OF THE PLANTING SOIL. APPLY AT A RATE OF 8 LBS. PER 1000 SQUARE FEET.
- APPLY LIME AT A RATE OF ONE TON PER ACRE AND UNIFORMLY INCORPORATE INTO THE TOP 1-2" OF TOPSOIL.
- SEEDING  
AFTER THE SEED BED IS PREPARED, SEED IS TO BE BROADCAST EVENLY OVER THE SURFACE AND WORKED INTO THE TOP 1" OF SOIL. SEED SHALL BE APPROVED URI #2 OR APPROVED EQUAL. APPLY AT A RATE OF 4-5 LBS. PER 1000 SQUARE FEET OR AS OTHERWISE DIRECTED BY THE MANUFACTURER.

**URI #2 IMPROVED SEED MIX, % BY WEIGHT:**

- 40% CREEPING RED FESCUE
- 20% IMPROVED PERENNIAL RYEGRASS
- 20% IMPROVED KENTUCKY BLUEGRASS
- 20% KENTUCKY BLUEGRASS

RECOMMENDED SEEDING DATES ARE APRIL 1 TO JUNE 15 AND AUGUST 15 TO OCTOBER 15. AS AT THE CONTRACTOR'S DISCRETION, SEED MAY BE APPLIED BY HYDROSEEDING RATHER THAN THE METHOD DESCRIBED ABOVE.

**MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DIVIDES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
- ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 1988 EDITION, INCLUDING REVISION 3, SEPTEMBER 3, 1993 AND SUBSEQUENT ADDENDA.
- SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE RIDOT SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

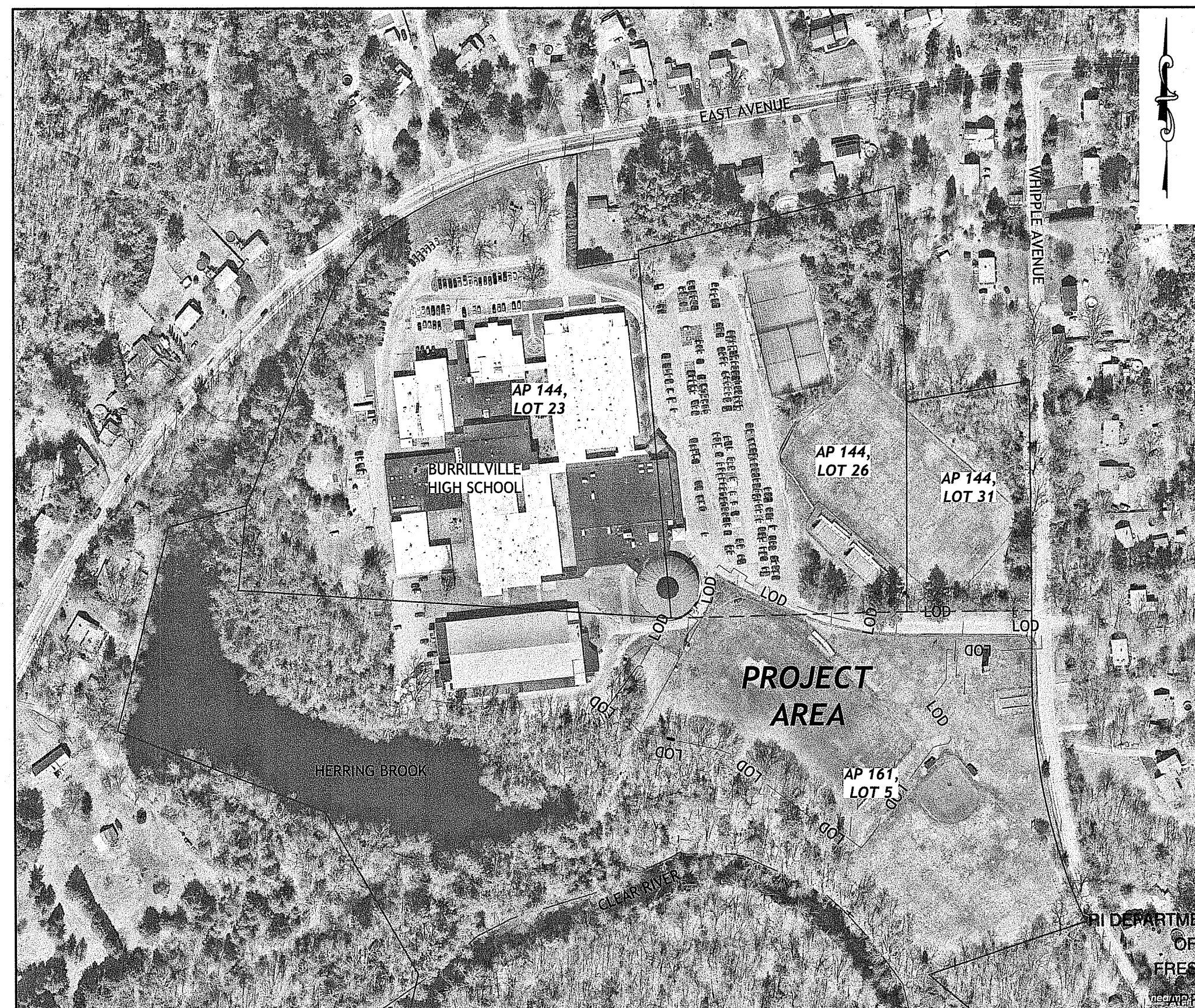
**LEGEND**

—	EXISTING PROPERTY LINE	○	CATCH BASIN
—	PROPOSED PROPERTY LINE	○	UTILITY POLE
—	ABUTTING PROPERTY LINE	—	OVERHEAD WIRES
—	BUILDING SETBACK LINE	—	UNDERGROUND ELECTRIC
—	WETLAND EDGE	—	VERIZON LINE
△ WF	WETLAND FLAG	—	WATER LINE
—	50' PERIMETER WETLAND	—	WATER SHUT OFF VALVE
—	100' RIVERBANK WETLAND	○	WELL
—	200' RIVERBANK WETLAND	—	SEWER
—	EXISTING CONTOUR	○	SMH
—	PROPOSED CONTOUR	—	N/F
○	IRON PIN	—	NOW OR FORMERLY EXISTING TREE LINE
○	DRILL HOLE	—	SILT FENCE
□	CONCRETE BOUND	—	LIMIT OF DISTURBANCE
—	EXISTING CURB	+	B-101 BORING LOCATION
—	GUARD RAIL	R&R	REMOVE & RESET
—	DRAIN LINE	R&D	REMOVE & DISPOSE
○	DRAINAGE MANHOLE	R&S	REMOVE & STOCKPILE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

**NOTE PER DEM:**

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site



**KEY PLAN**  
SCALE: 1"=200'

RI Environmental Management  
FEB 26 2024  
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: APR 11 2024 FILE #: 23-0256

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE IN CONSTRUCTION SITE

*Walter P. Freeman*

**JCE**  
JOE CASALI ENGINEERING, INC.  
CIVIL, SITE DEVELOPMENT, TRANSPORTATION  
DRAINAGE, WATER, SEWER, WETLANDS, EROSION CONTROL  
300 POST ROAD, WARWICK, RI 02888  
(401) 944-1300 (401) 944-3131 FAX WWW.JCEENGINEERING.COM

JOSEPH A. CASALI  
No. 7250  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
02/16/2024

**BURRILLVILLE HIGH SCHOOL  
SYNTHETIC TURF ATHLETICS FIELD**  
425 EAST AVENUE  
BURRILLVILLE, RHODE ISLAND  
AP 144, LOT 26 & AP 161, LOT 5

BURRILLVILLE  
R.I.

**REVISIONS:**

NO.	DATE	DESCRIPTION

DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: DEC. 2023  
PROJECT NO: 05-92cf

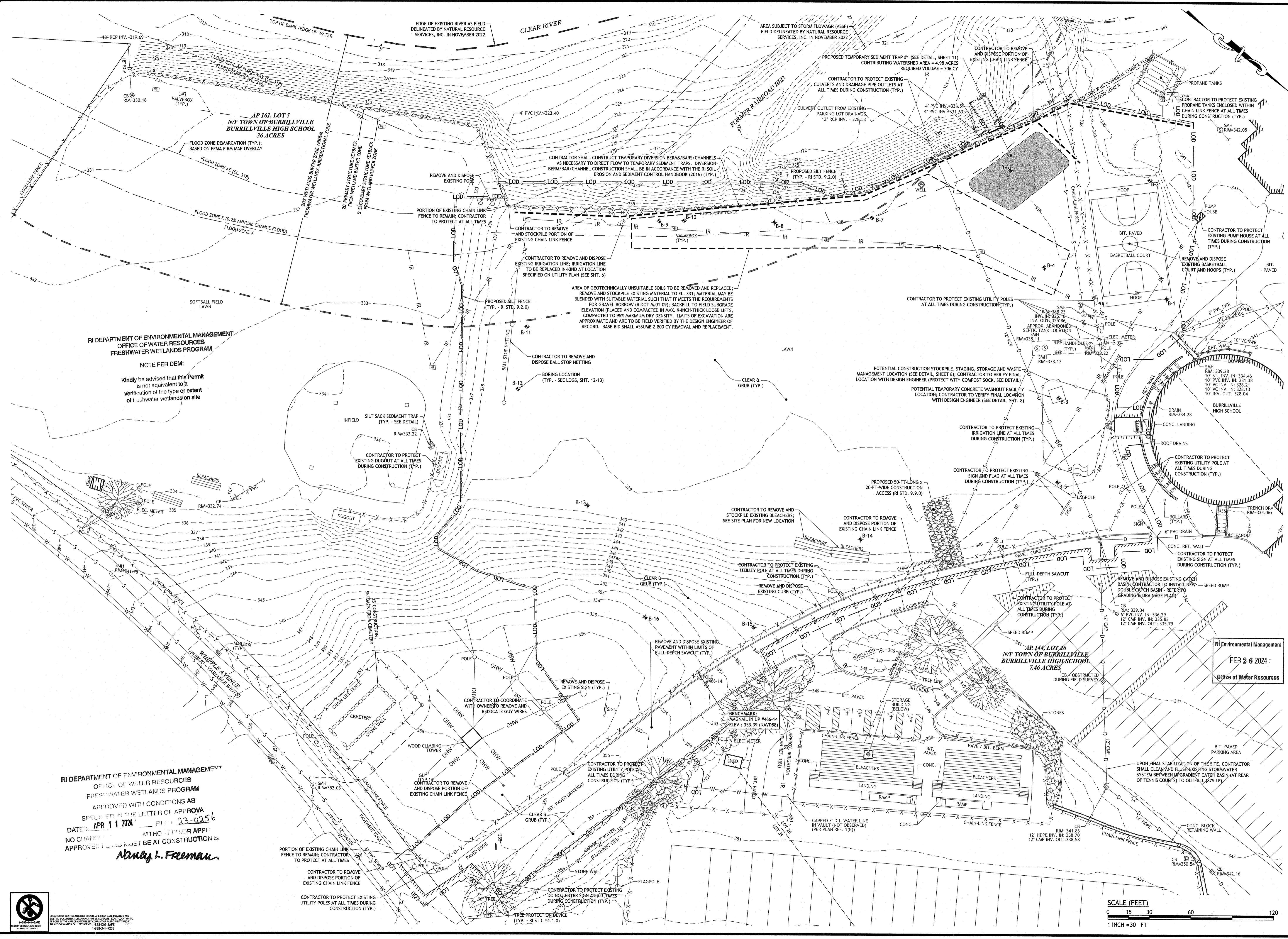
PRELIMINARY DESIGN  
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**GENERAL NOTES & LEGEND**

**SHEET 2 OF 11**

1-888-DIG-SAFE  
PROTECT YOURSELF, GIVE THEM  
THEir LOCATION  
TO ANY EXCAVATION CALL DIGSAFE AT 1-888-DIG-SAFE  
1-888-344-7233

Q:\05-22 Town of Burrillville\05-22c High School Field\KCAD\Burrillville High School (RDEM) RTG.dwg, Feb. 26, 2024 8:07am



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: APR 11 2024 FILE # 23-0256

NO CHANGES TO THIS APPROVAL WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. APPROVED COMMENTS MUST BE AT CONSTRUCTION SITE.

*Nancy J. Freeman*

RI Environmental Management  
FEB 26 2024  
Office of Water Resources

SCALE (FEET)  
0 15 30 60 120  
1 INCH = 30 FT

**JOE**  
CASALI ENGINEERING, INC.  
CIVIL, SITE DEVELOPMENT, TRANSPORTATION  
DRAINAGE, WETLANDS, ISDS, TRAFFIC, FLOODPLAIN  
ANALYSIS, SURVEYING, PHOTOGRAMMETRY, VIDEO  
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JOSEPH A. CASALI  
No. 7250  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
02/24/2024

**BURRILLVILLE HIGH SCHOOL  
SYNTHETIC TURF ATHLETICS FIELD**  
425 EAST AVENUE  
BURRILLVILLE, RHODE ISLAND  
AP 144, LOT 26 & AP 161, LOT 5

BURRILLVILLE  
R.I.

REVISIONS:

NO.	DATE	DESCRIPTION
1	2/26/24	RIDEM RTC

DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: NOV. 2023  
PROJECT NO: 05-926f

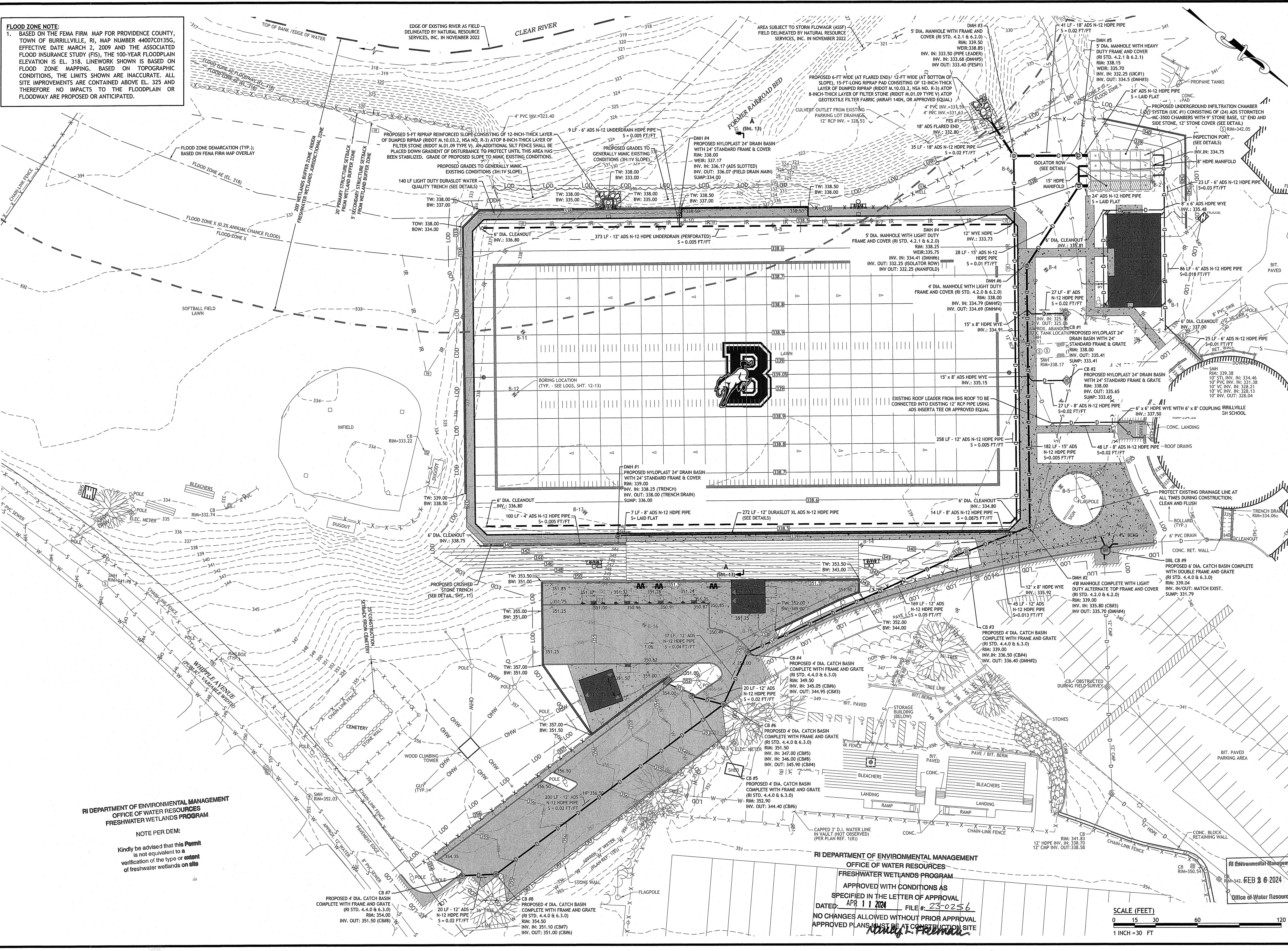
PRELIMINARY, NOT FOR CONSTRUCTION

**EXISTING CONDITIONS & SITE PREP. PLAN**

**SHEET 3 OF 19**



**FLOOD ZONE NOTE:**  
 1. BASED ON THE FEMA FIRM MAP FOR PROVIDENCE COUNTY, TOWN OF BURRILLVILLE, RI, MAP NUMBER 44007C0135G, EFFECTIVE DATE MARCH 2, 2009 AND THE ASSOCIATED FLOOD INSURANCE STUDY (FIS), THE 100-YEAR FLOODPLAIN ELEVATION IS EL. 318. LINWORK SHOWN IS BASED ON FLOOD ZONE MAPPING. BASED ON TOPOGRAPHIC CONDITIONS, THE LIMITS SHOWN ARE INACCURATE. ALL SITE IMPROVEMENTS ARE CONTAINED ABOVE EL. 325 AND THEREFORE NO IMPACTS TO THE FLOODPLAIN OR FLOODWAY ARE PROPOSED OR ANTICIPATED.



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
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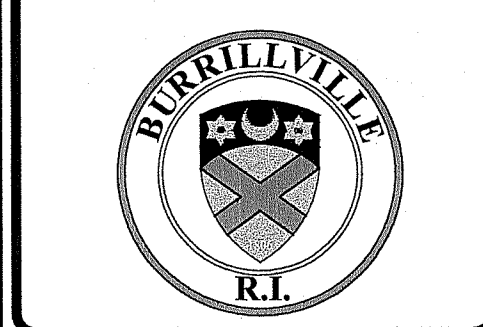
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 1 INCH = 30 FT

**JCE**  
 JOE CASALI ENGINEERING, INC.  
 CIVIL ENGINEER  
 300 POST ROAD, WARWICK, RI 02888  
 (401) 944-1300 (401) 944-1313 FAX WWW.JCEONLINE.COM

JOSEPH A. CASALI  
 No. 7250  
 REGISTERED PROFESSIONAL ENGINEER  
 02/24/2024

**BURRILLVILLE HIGH SCHOOL  
 SYNTHETIC TURF ATHLETICS FIELD**  
 425 EAST AVENUE  
 BURRILLVILLE, RHODE ISLAND  
 AP 144, LOT 26 & AP 161, LOT 5



REVISIONS:

NO.	DATE	DESCRIPTION
1	2/26/24	RIDEM RTC

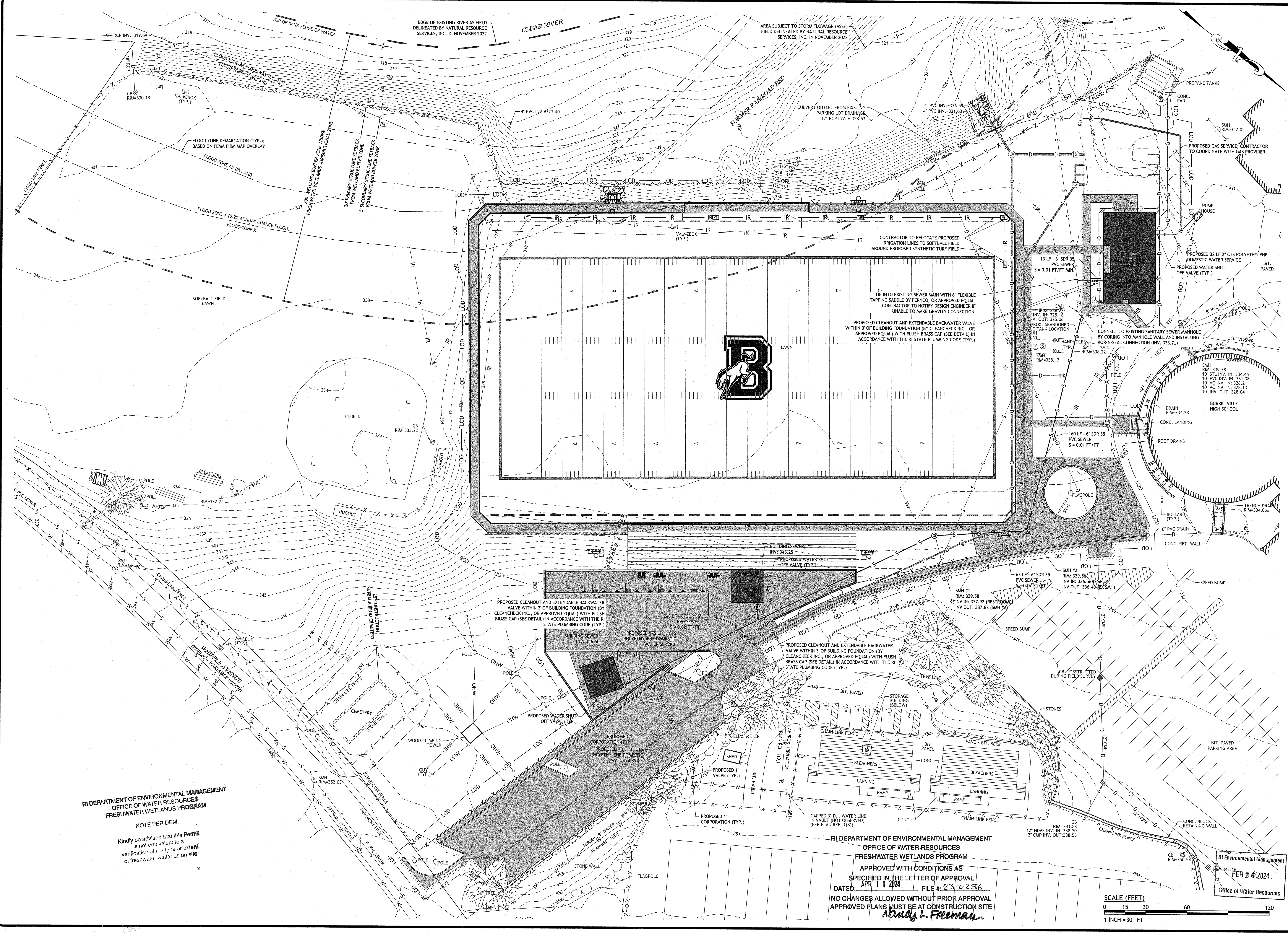
DESIGNED BY: DRD  
 DRAWN BY: SD/SEP  
 CHECKED BY: JAC  
 DATE: NOV. 2023  
 PROJECT NO: 05-926f

PRELIMINARY, NOT FOR CONSTRUCTION

**GRADING & DRAINAGE PLAN**

**SHEET 5 OF 19**

Q:\05-92 Town of Burrillville\05-92.ctf High School Field\ACAD\Burrillville High School [RDEM-RTC].dwg, Feb. 26, 2024 8:08am



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED APR 11 2024 FILE # 23-0256  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

SCALE (FEET)  
0 15 30 60 120  
1 INCH = 30 FT

**JCE**  
JOE CASALI ENGINEERING, INC.  
CIVIL SITE DEVELOPMENT - TRANSPORTATION  
DRAINAGE - W 300 FOOT ROAD, WARWICK, RI 02888  
(401) 944-1500 (401)944-5137 FAX WWW.JCEBALL.COM

JOSEPH A. CASALI  
No. 7250  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
02/14/2024

**BURRILLVILLE HIGH SCHOOL  
SYNTHETIC TURF ATHLETICS FIELD**  
425 EAST AVENUE  
BURRILLVILLE, RHODE ISLAND  
AP 144, LOT 26 & AP 161, LOT 5



REVISIONS:

NO.	DATE	DESCRIPTION
1	2/26/24	RIDEM RTC

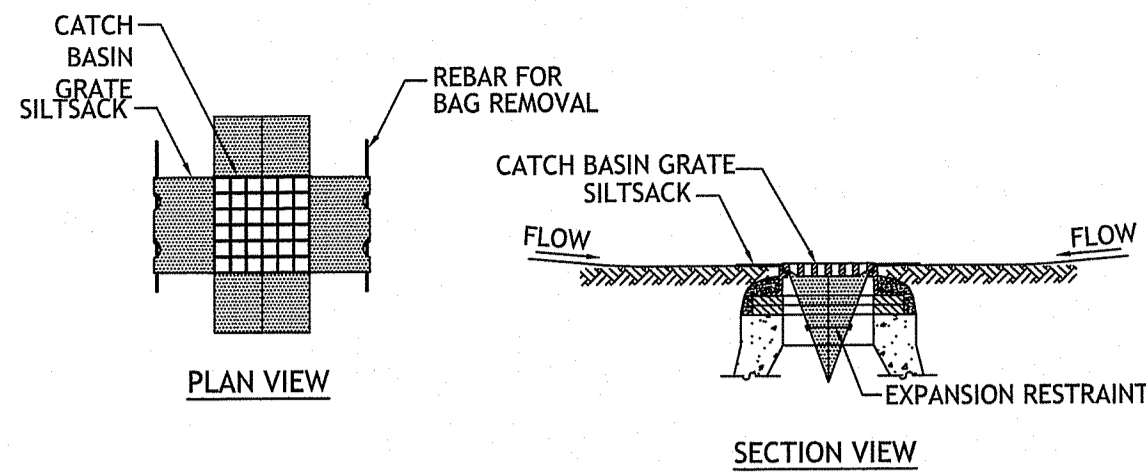
DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: NOV. 2023  
PROJECT NO: 05-22.ctf

PRELIMINARY, NOT FOR CONSTRUCTION

**UTILITY PLAN**

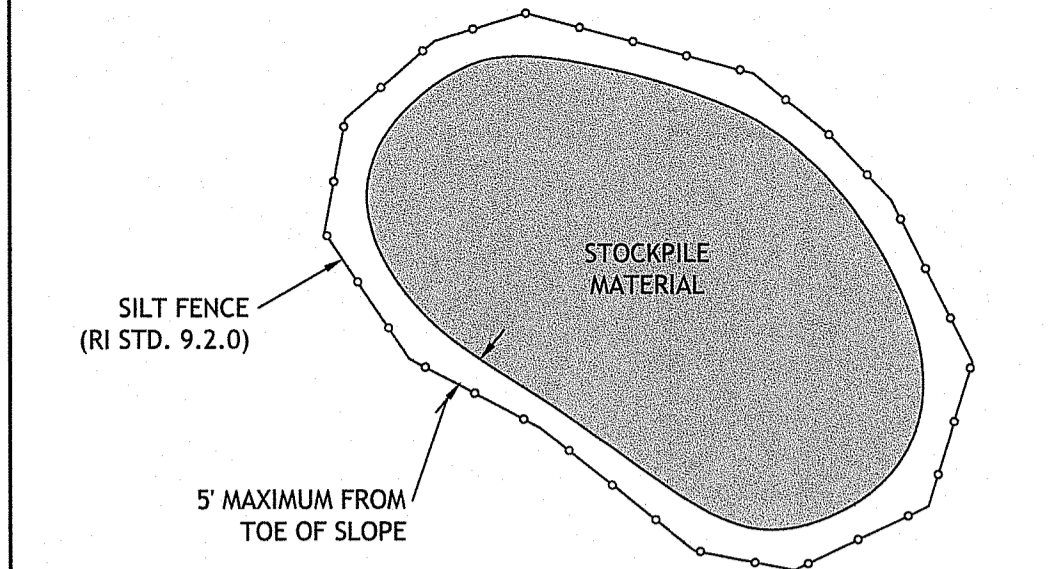
**SHEET 6 OF 19**



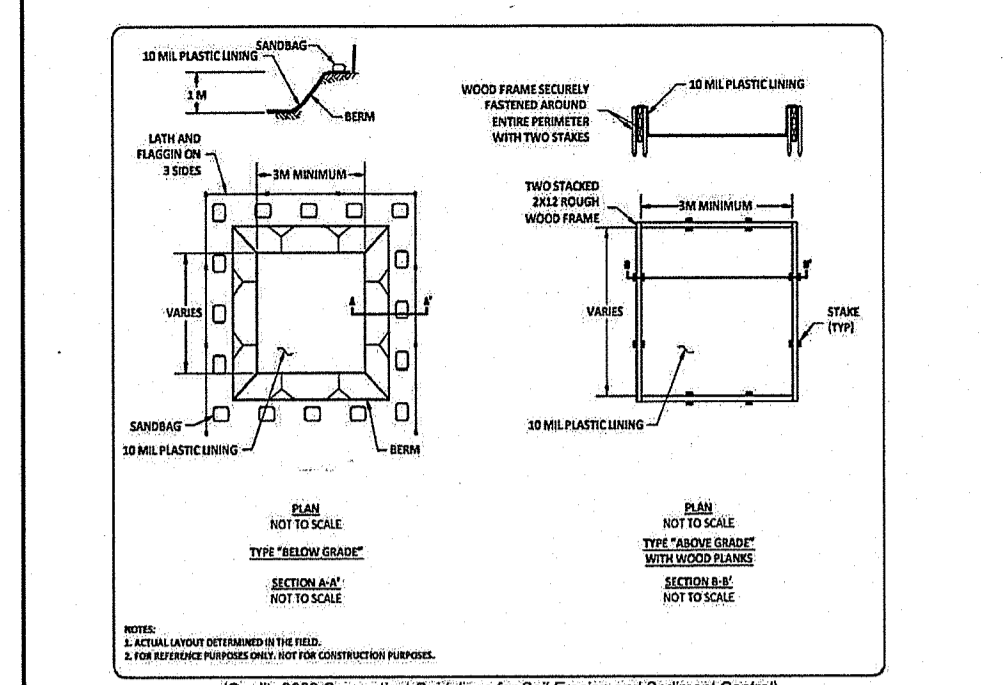


- NOTES:**
- INSTALL SILTSACK IN SELECTED CATCH BASINS IDENTIFIED ON THE SITE PREPARATION PLAN BEFORE COMMENCING WORK.
  - GRATE TO BE PLACED OVER SILTSACK. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

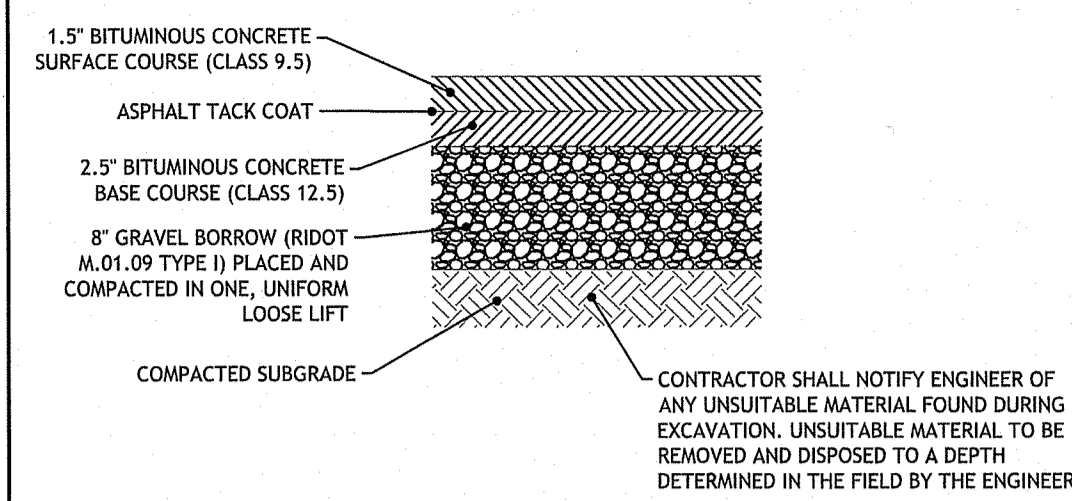
**1** SILT SACK SEDIMENT TRAP  
NOT TO SCALE



**2** STOCKPILE DETAIL  
NOT TO SCALE

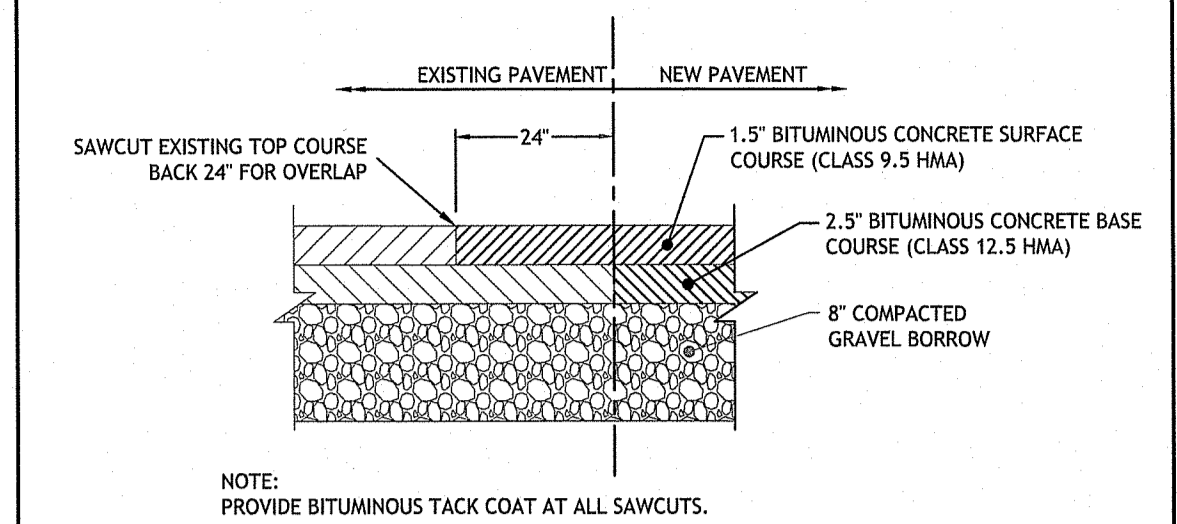


**3** TEMP. CONCRETE WASHOUT FACILITY  
NOT TO SCALE

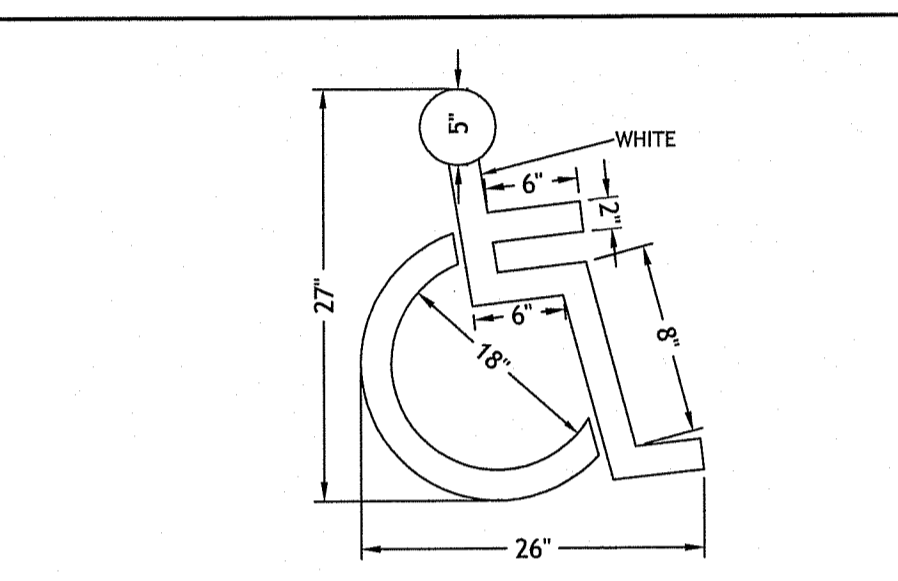


- NOTES:**
- IF UNSUITABLE MATERIALS ARE ENCOUNTERED AT SUBGRADE ELEVATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE DEPTH OF UNSUITABLE MATERIAL TO BE REMOVED WILL BE DETERMINED IN THE FIELD. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE THE UNSUITABLE MATERIALS AND REPLACE WITH SUITABLE MATERIAL APPROVED BY THE ENGINEER.
  - MINIMUM COMPACTION FOR GRAVEL BORROW SUB-BASE AND SUBGRADE: 95% MODIFIED PROCTOR.

**4** BITUMINOUS CONCRETE PAVEMENT  
NOT TO SCALE

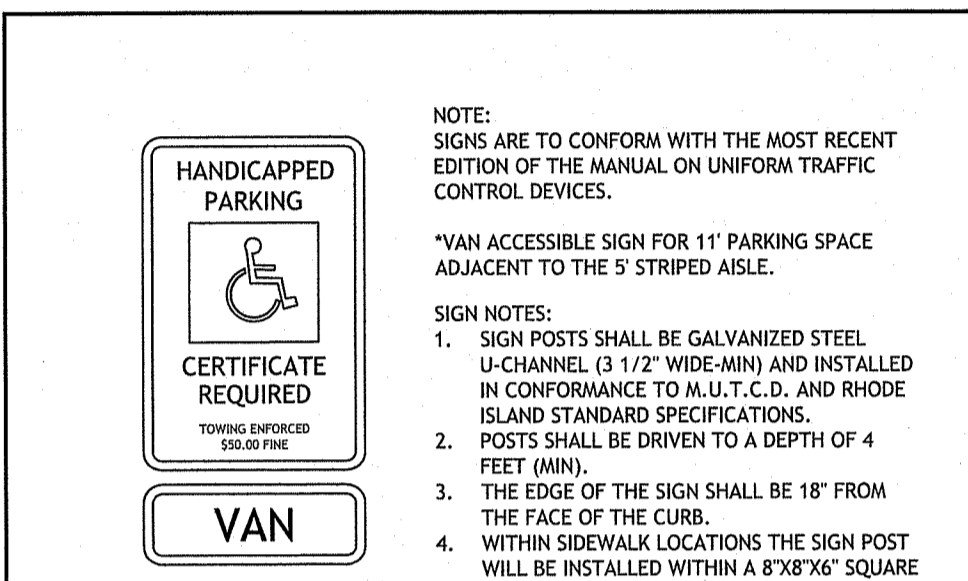


**5** PAVEMENT CUT AND MATCH DETAIL  
NOT TO SCALE

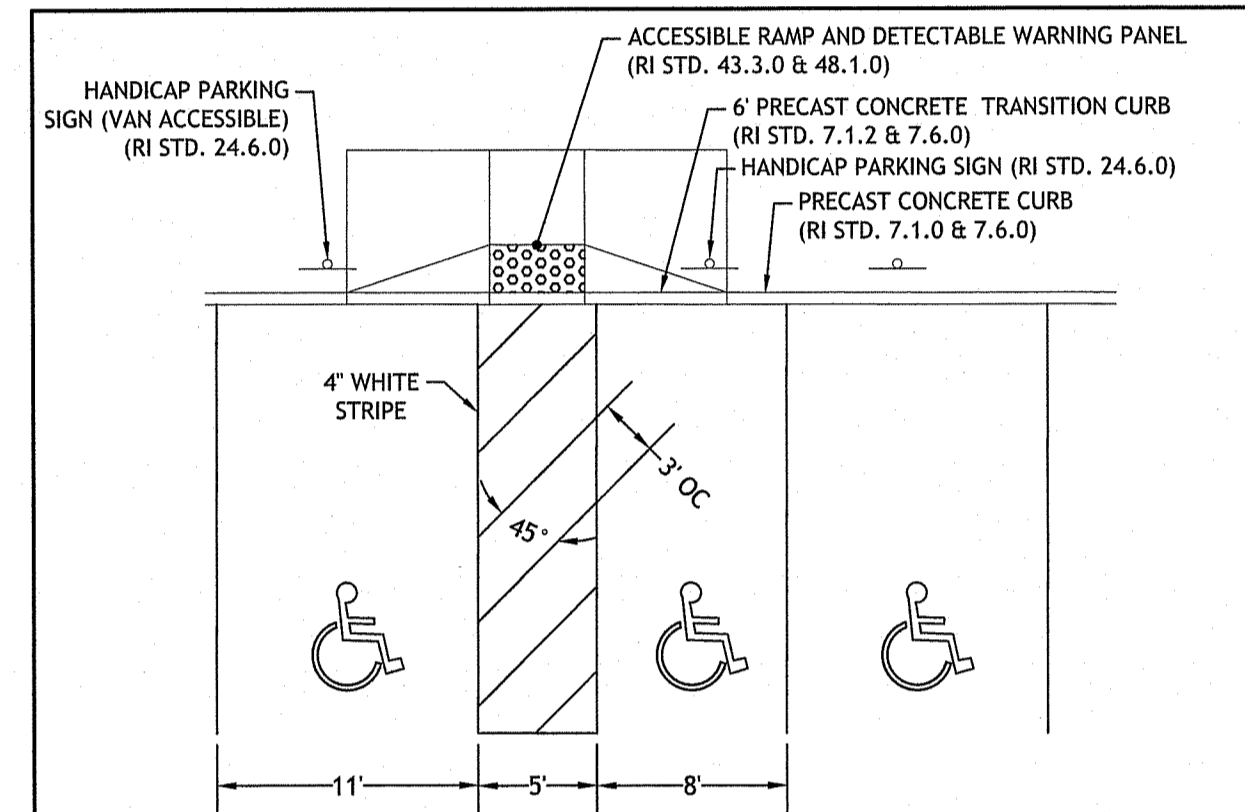


- NOTE:**
- ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND STATE BUILDING CODE.

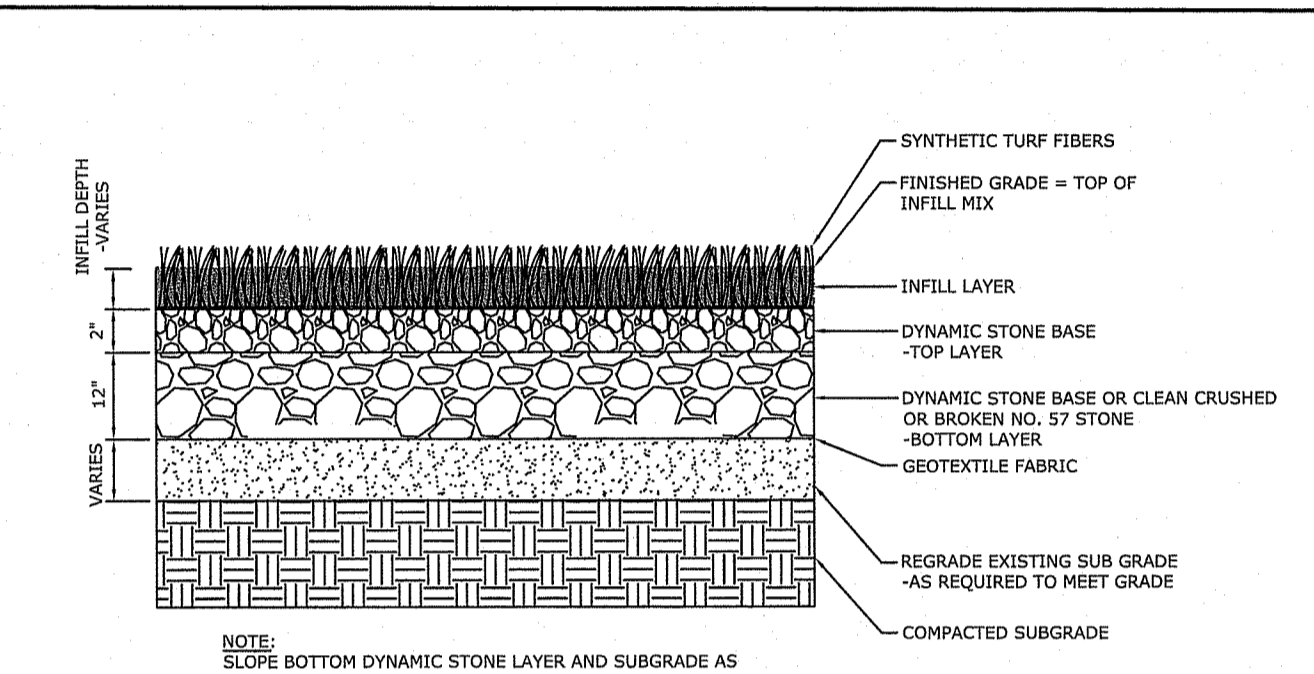
**6** HANDICAP PAVEMENT MARKING  
NOT TO SCALE



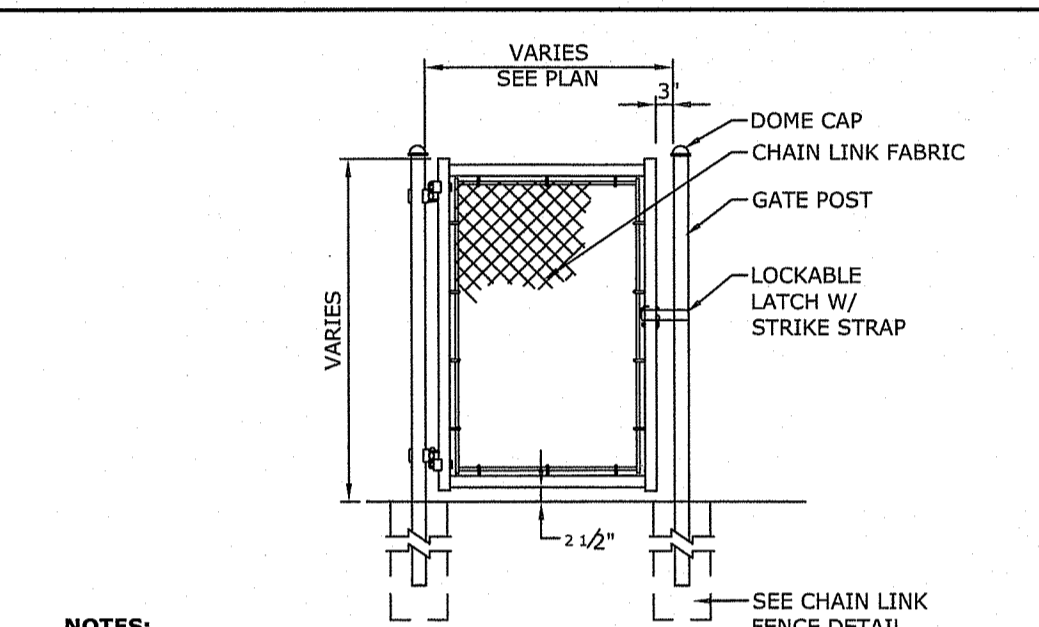
**7** HANDICAP PARKING SIGNS  
NOT TO SCALE



**8** HANDICAP PARKING STALL DETAIL  
NOT TO SCALE

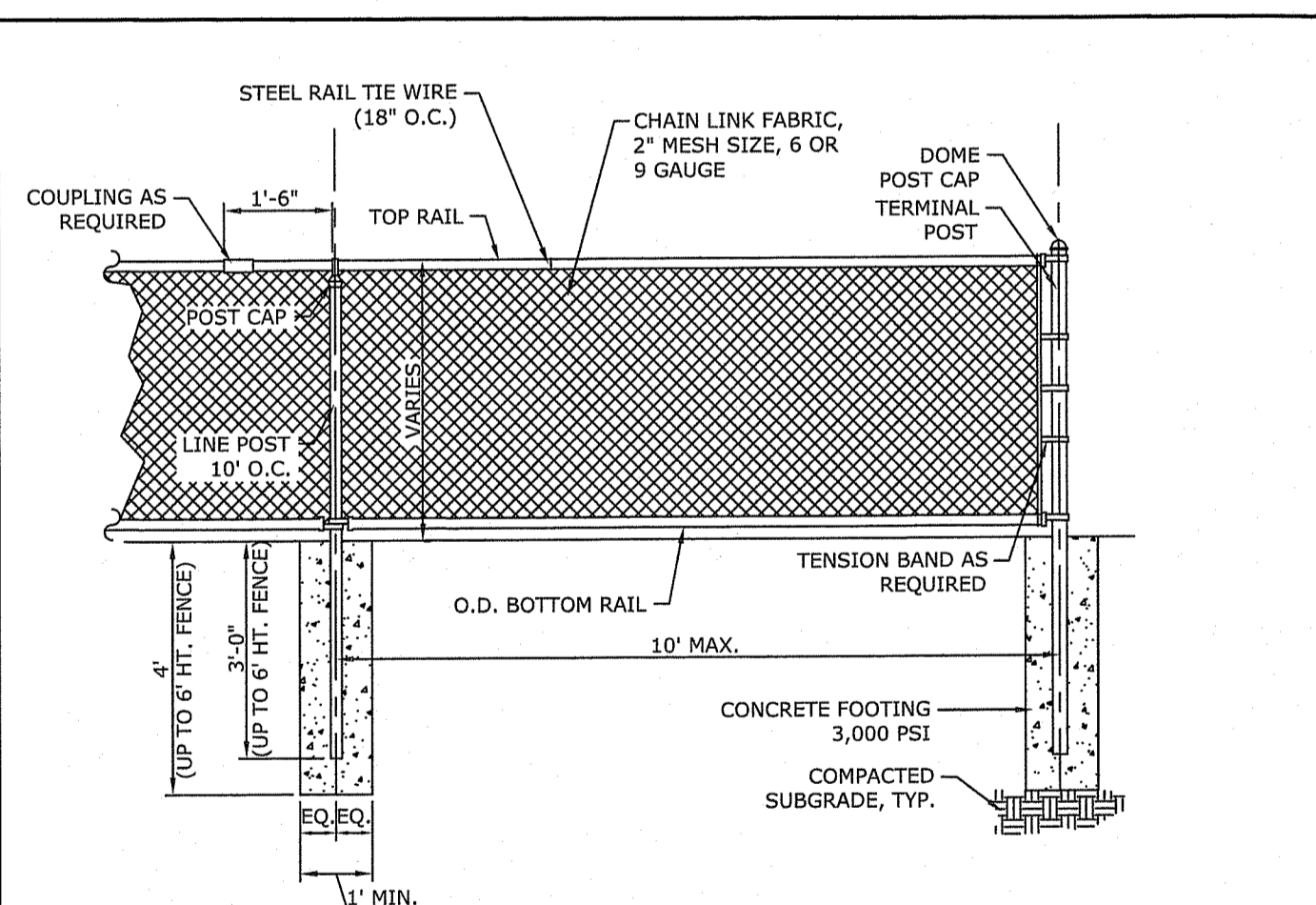


**9** SYNTHETIC INFILL TURF DETAIL  
NOT TO SCALE



- NOTES:**
- MATERIALS AND METHOD OF CONSTRUCTION SHALL CONFORM TO CHAIN LINK FENCE DETAIL ON THIS SHEET.
  - CONTRACTOR TO SUBMIT SHOP DRAWINGS.
  - GATE SWINGING DIRECTION:
    - ALL SWING GATES ADJACENT TO SYNTHETIC TURF SHALL ONLY BE ALLOWED TO SWING AWAY FROM THE SYNTHETIC TURF WHERE POSSIBLE.
    - PROVIDE STOP AS REQUIRED TO PREVENT SWINGING OF GATE TOWARDS THE SYNTHETIC SURFACE.

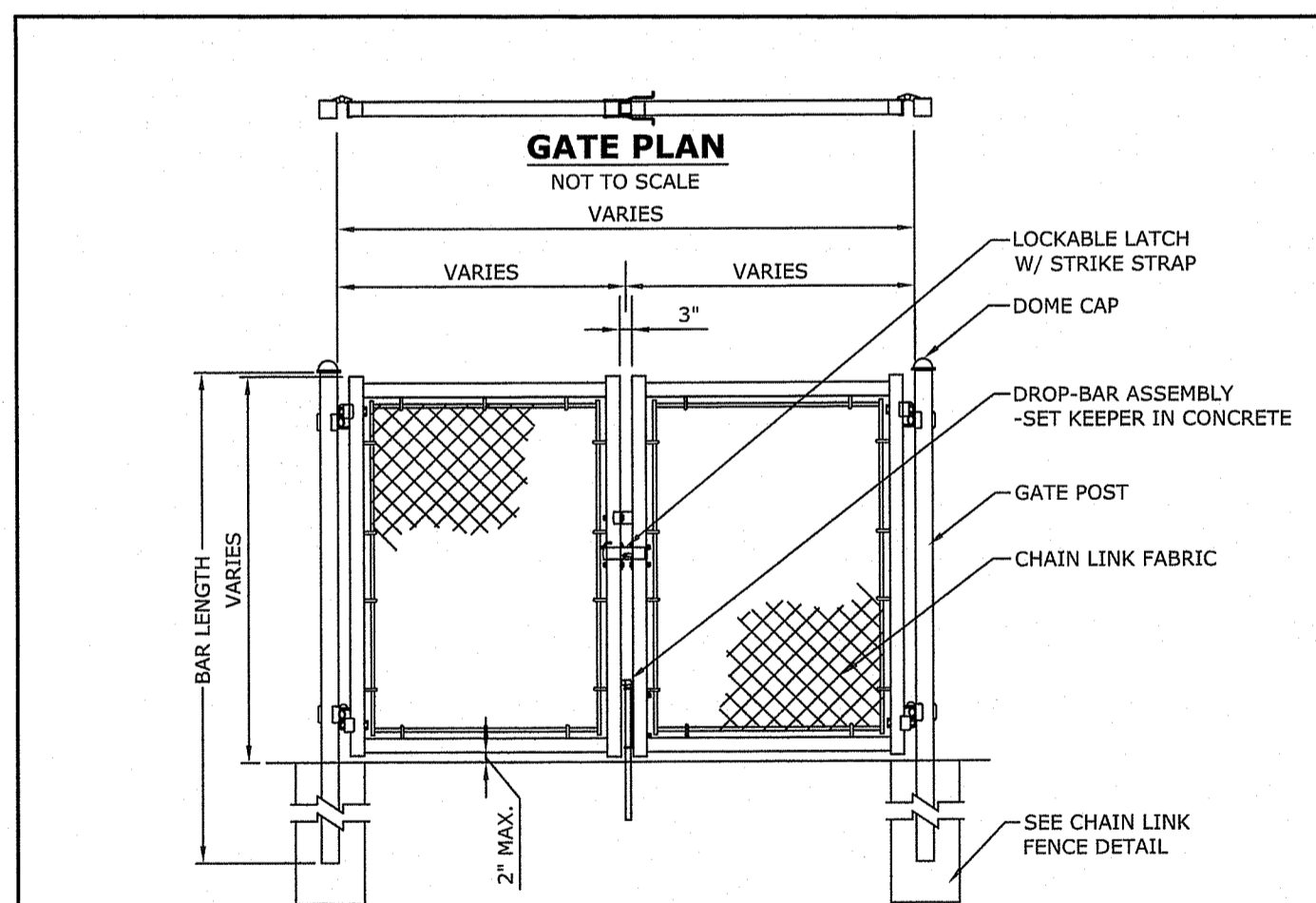
**10** SINGLE CHAIN-LINK FENCE GATE DETAIL  
NOT TO SCALE



CHAIN LINK FENCE POST AND RAIL SIZING	
POST OR RAIL TYPE	4' & 6' HT. FENCE
TERMINAL OR COMMON	2-7/8"
LINE POST	2-7/8"
TOP RAIL	1-5/8"
INTERMEDIATE RAIL	1-5/8" (6' ENDZONES)
BOTTOM RAIL	1-5/8"
GATE POST	2-7/8"
GATE FRAME	1-7/8"

- NOTE:**
- ALL CHAIN LINK POSTS, RAILS, FABRIC AND HARDWARE TO BE BLACK VINYL.
  - 4' AND 6' HEIGHT FENCE POSTS MAY BE CORE DRILLED INTO CURBING.
  - ALL GATE POSTS TO HAVE FULL DEPTH FOUNDATIONS.
  - MID RAIL TO BE INSTALLED BELOW BALL SAFETY FOUNDATIONS.
  - ENDZONE MESH TO BE 4 GAUGE.
  - FENCE HEIGHTS ABOVE 6' ARE PROVIDED ON SEPARATE DETAIL.

**11** CHAIN-LINK FENCE DETAIL  
NOT TO SCALE



DOUBLE LEAF GATES		
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	2 7/8"	FOR SQUARE & ROUND GATE POSTS: 2 7/8"
	2.875" OD	

- NOTES:**
- THIS DETAIL IS FOR GATES UP TO 15' IN TOTAL WIDTH. ANY GATES BEYOND 15' IN TOTAL WIDTH SHALL HAVE 8" MIN. RUBBER INFLATABLE SUPPORT WHEELS ATTACHED TO ENDS OF GATE ARMS AND SET ON THE POSTS TO SIT OUTSIDE OF THE FIELD OF PLAY.
  - MATERIALS AND METHOD OF CONSTRUCTION SHALL CONFORM TO CHAIN LINK FENCE DETAIL ON THIS SHEET.
  - CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.

**12** DOUBLE CHAIN-LINK FENCE GATE DETAIL  
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

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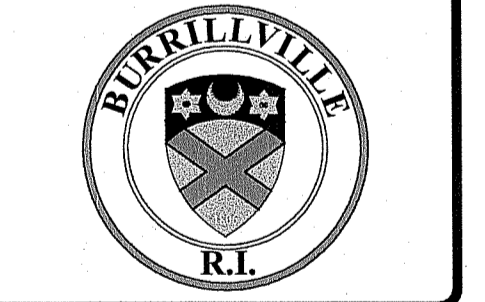
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 11 2024 FILE #: 23-0256  
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*Donley L. Freeman*

RI Environmental Management  
FEB 20 2024  
Office of Water Resources

JOSEPH A. CASALI  
No. 7250  
REGISTERED PROFESSIONAL ENGINEER  
02/24/2024

**BURRILLVILLE HIGH SCHOOL  
SYNTHETIC TURF ATHLETICS FIELD**  
425 EAST AVENUE  
BURRILLVILLE, RHODE ISLAND  
AP 144, LOT 26 & AP 161, LOT 5



**REVISIONS:**

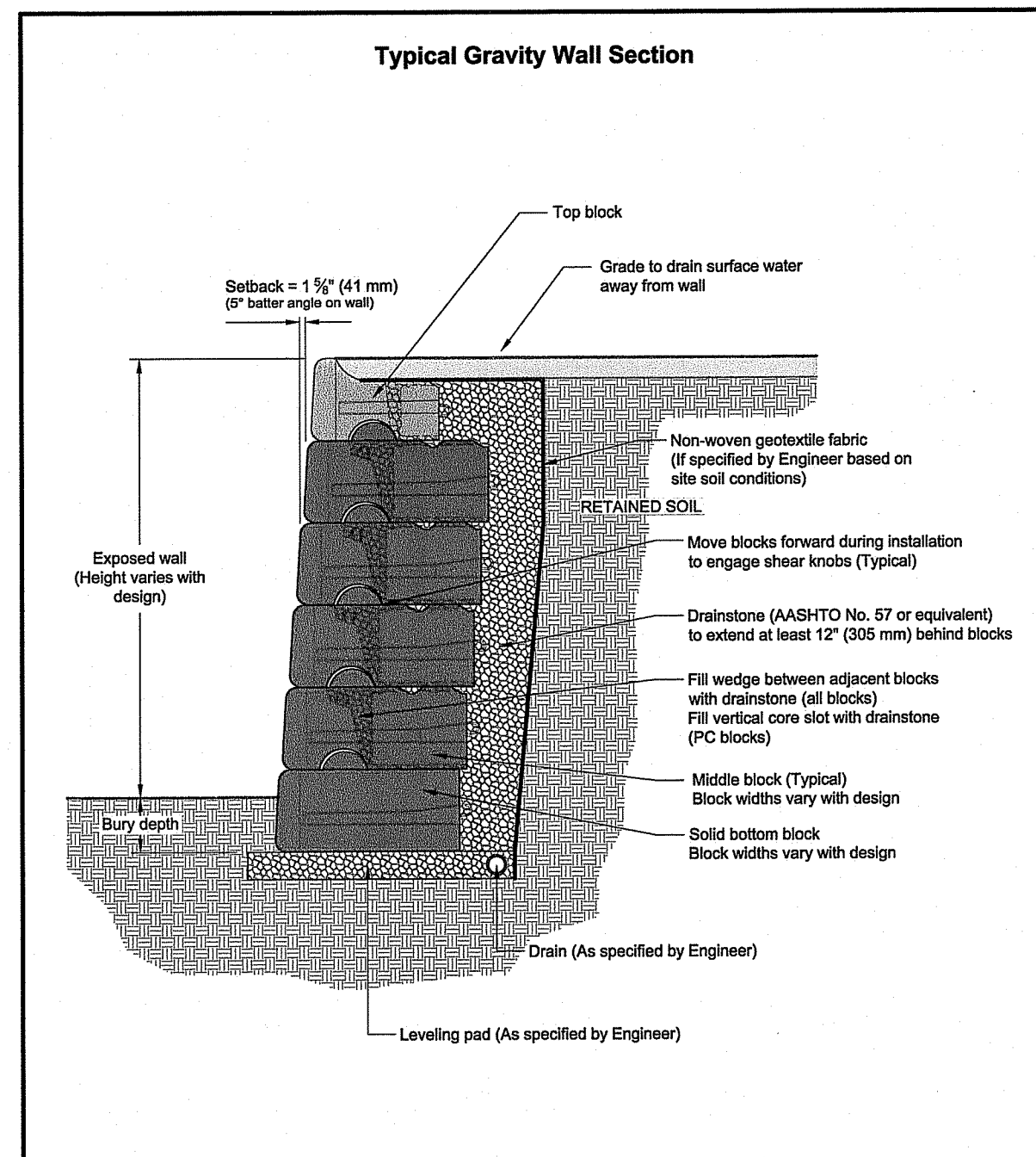
NO.	DATE	DESCRIPTION
1	2/26/24	RIDEM RTC

DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: NOV. 2023  
PROJECT NO: 05-926f

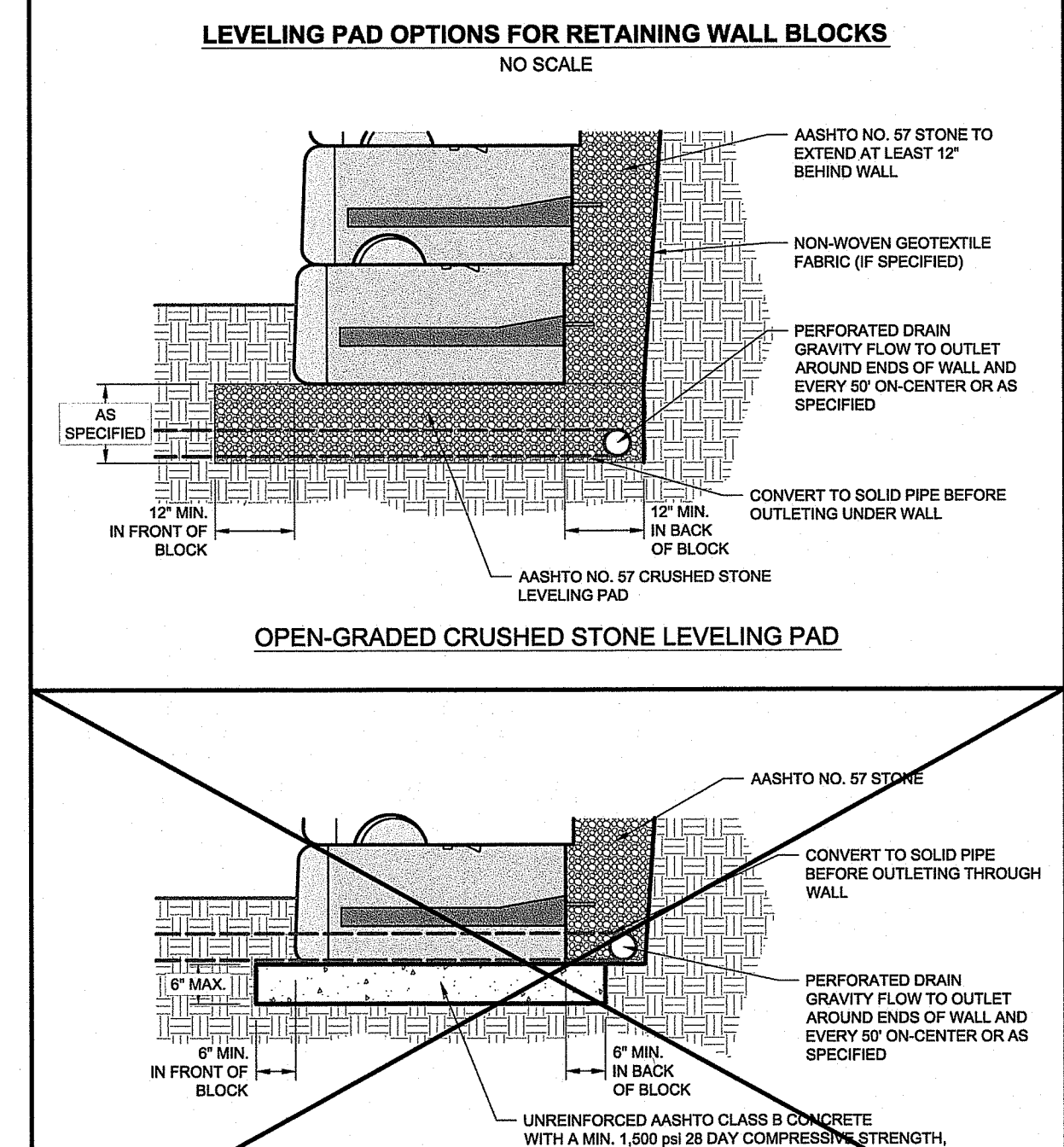
PRELIMINARY, NOT FOR CONSTRUCTION

**SITE DETAILS I**

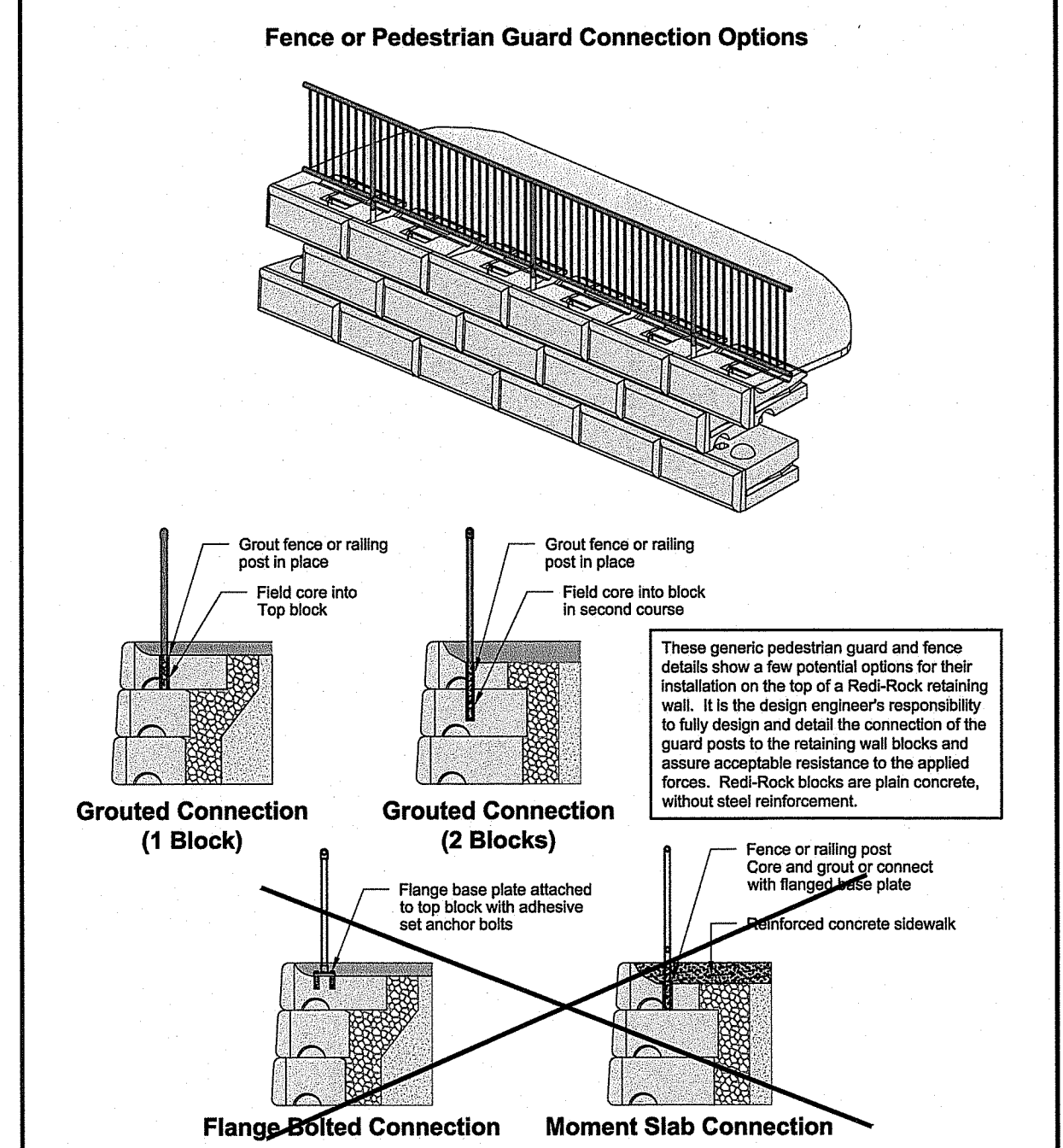
**SHEET 8 OF 19**



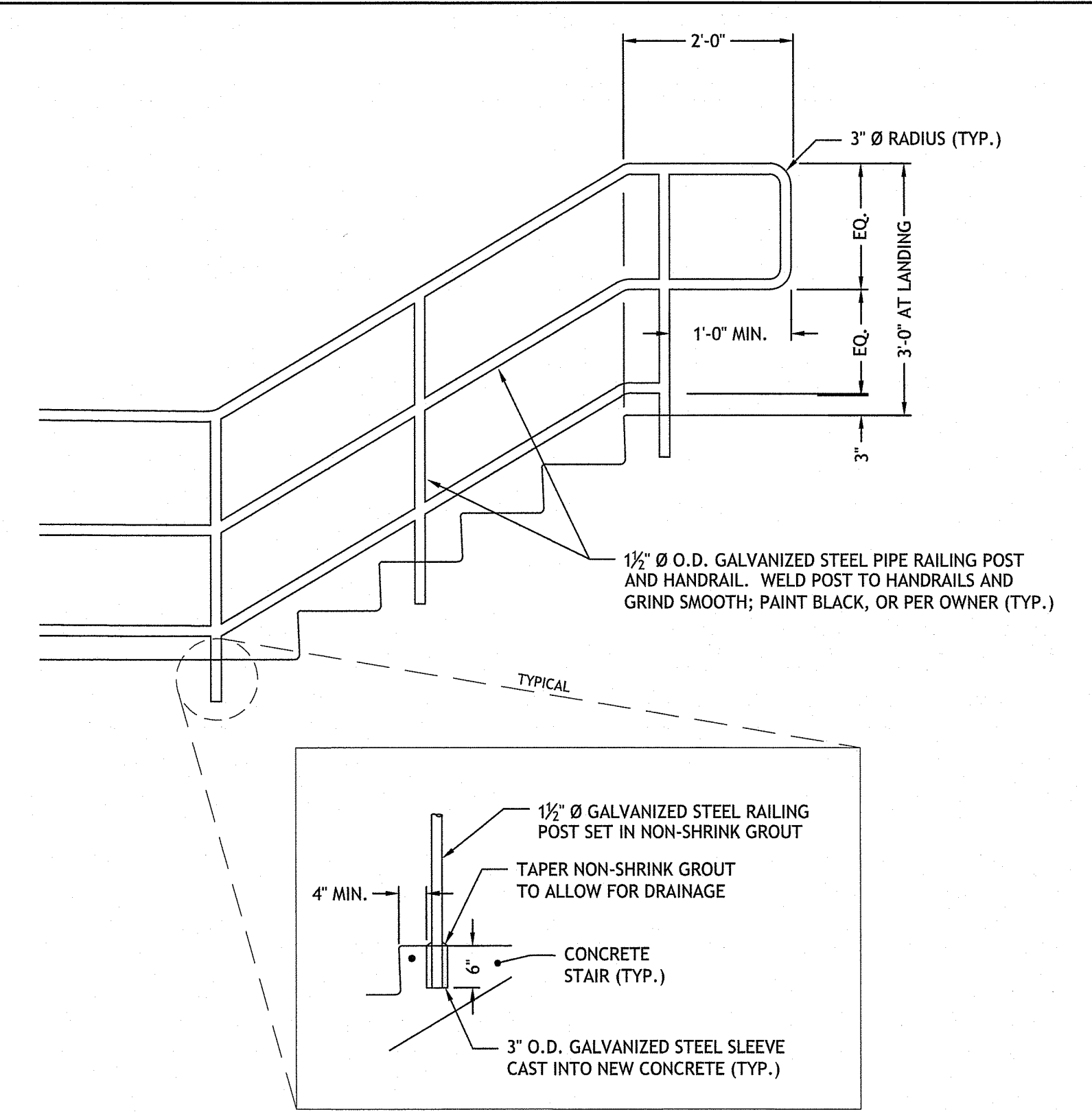
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APPROVED BY: JRL	FILE: 1 Typical Gravity Wall Detail 031716.dwg	0561 US 31 SOUTH, CHARLEVOIX, MI 49720 800.222.4400 ext 300 • registered@red-rock.com
DATE: 17MAR2016		
SHEET: 1 of 1		



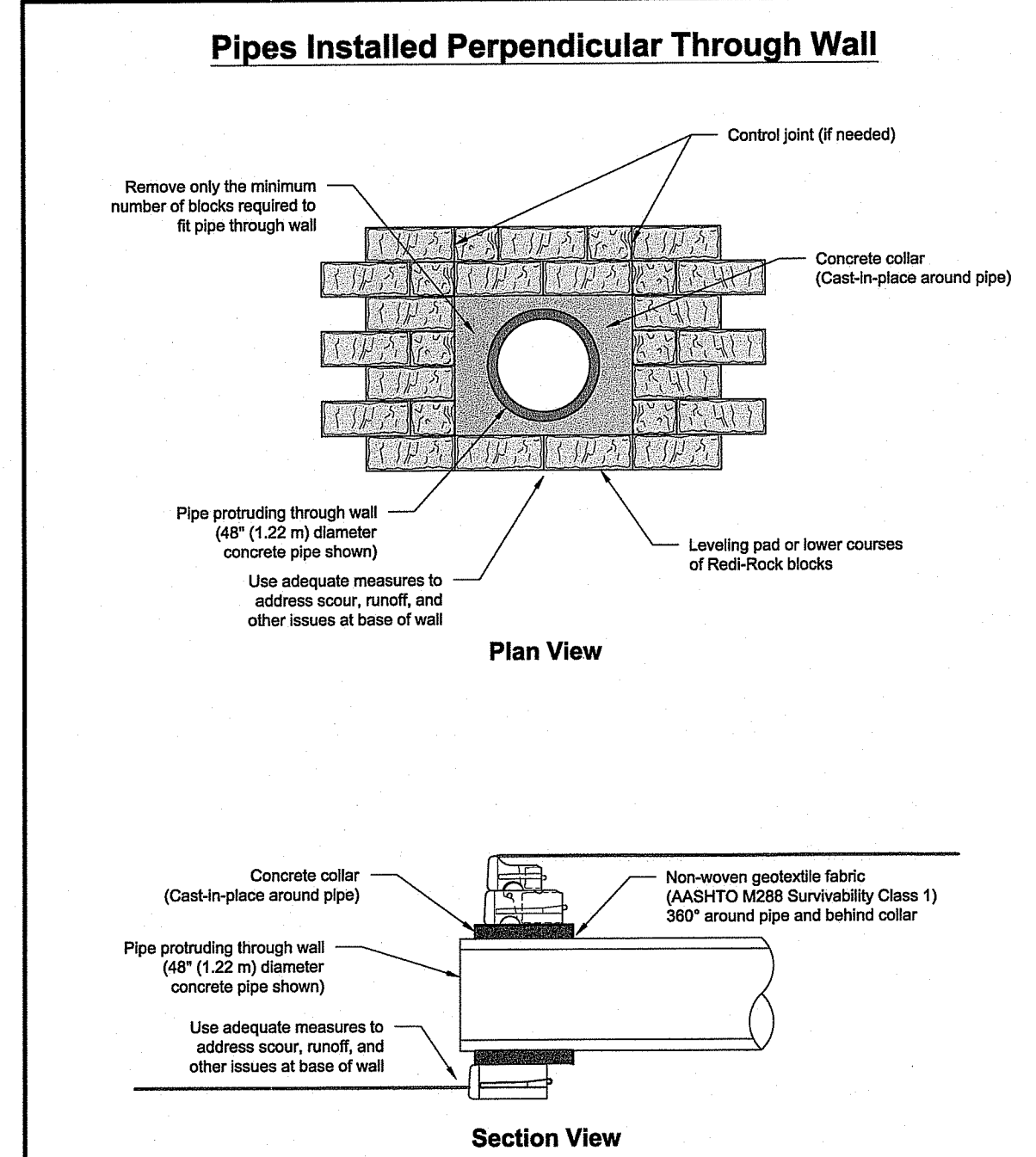
DRAWN BY: JRL	TITLE: Leveling Pad Options	REDHROCK
APPROVED BY: JRL	FILE: 3 Leveling Pad Options 062215.dwg	0561 US 31 SOUTH, CHARLEVOIX, MI 49720 800.222.4400 ext 300 • registered@red-rock.com
DATE: 06-22-2015		
SHEET: 1 of 1		



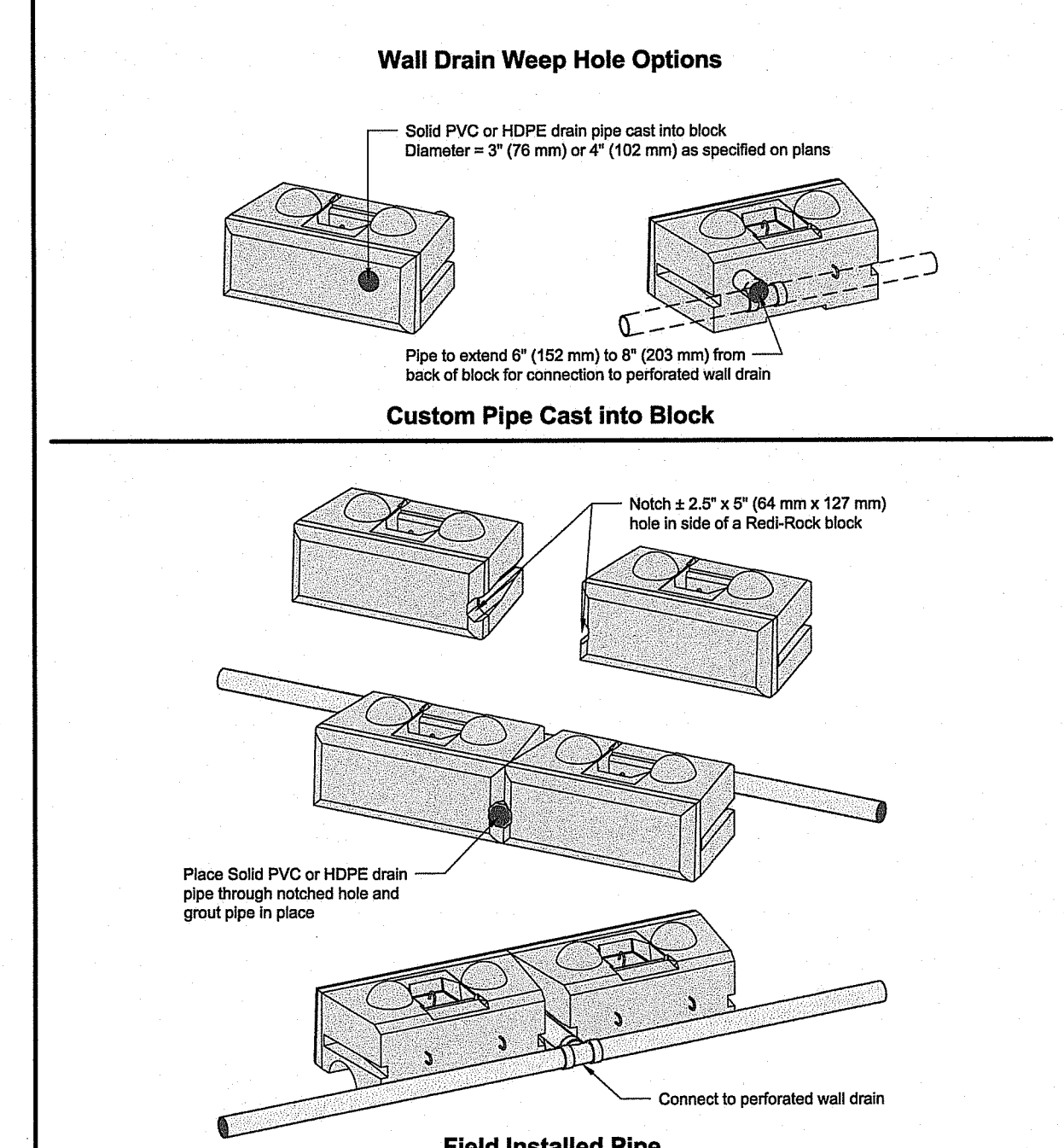
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APPROVED BY: JRL	FILE: 5 Fence or Pedestrian Guard Connection Options 062215.dwg	0561 US 31 SOUTH, CHARLEVOIX, MI 49720 800.222.4400 ext 300 • registered@red-rock.com
DATE: 06-22-2015		
SHEET: 1 of 1		



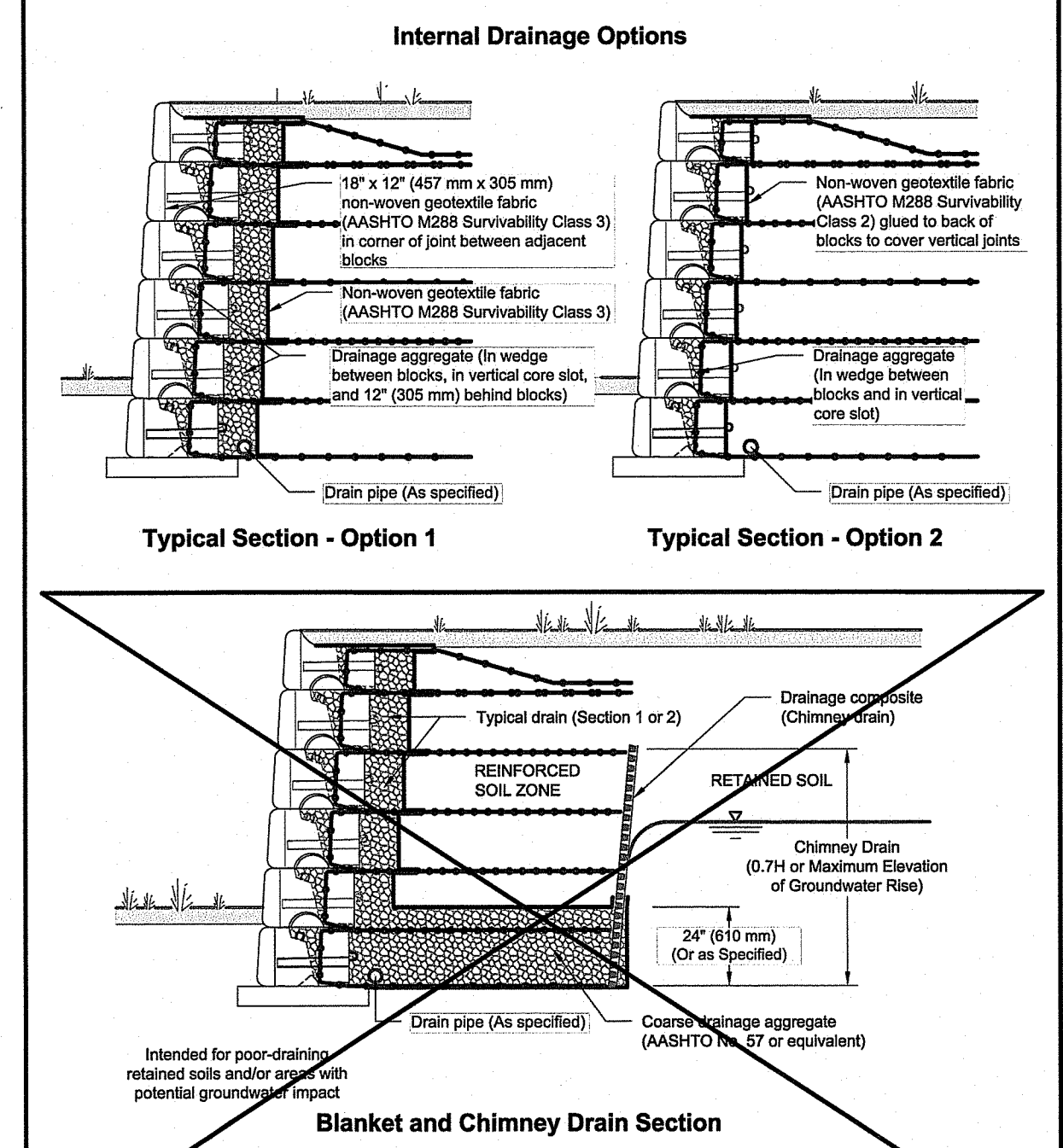
13 GALVANIZED STEEL RAILING DETAIL  
NOT TO SCALE



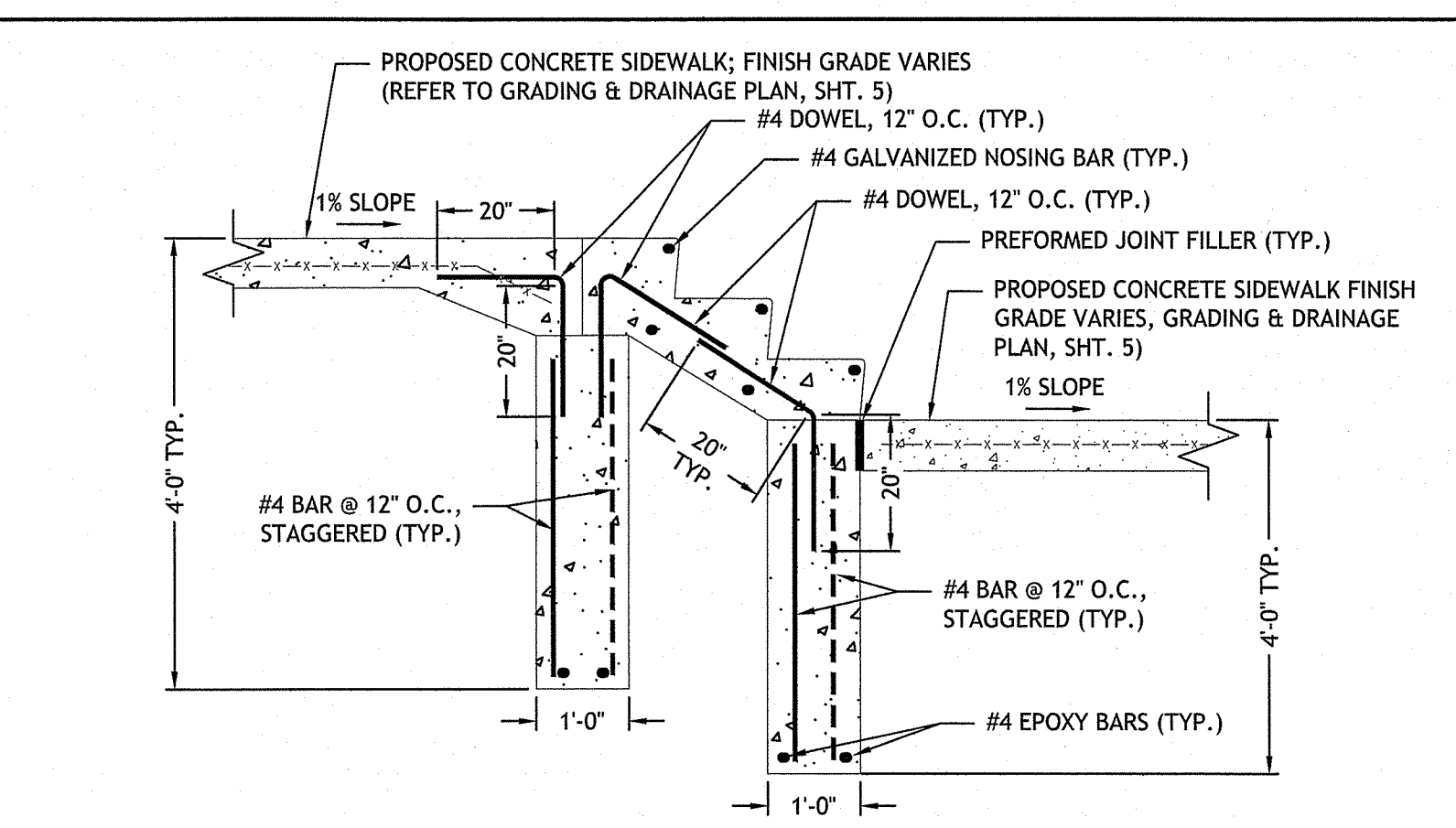
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APPROVED BY: JRL	FILE: 1 Pipe Installed Perpendicular Through Wall 062215.dwg	0561 US 31 SOUTH, CHARLEVOIX, MI 49720 800.222.4400 ext 300 • registered@red-rock.com
DATE: 06-22-2015		
SHEET: 1 of 1		



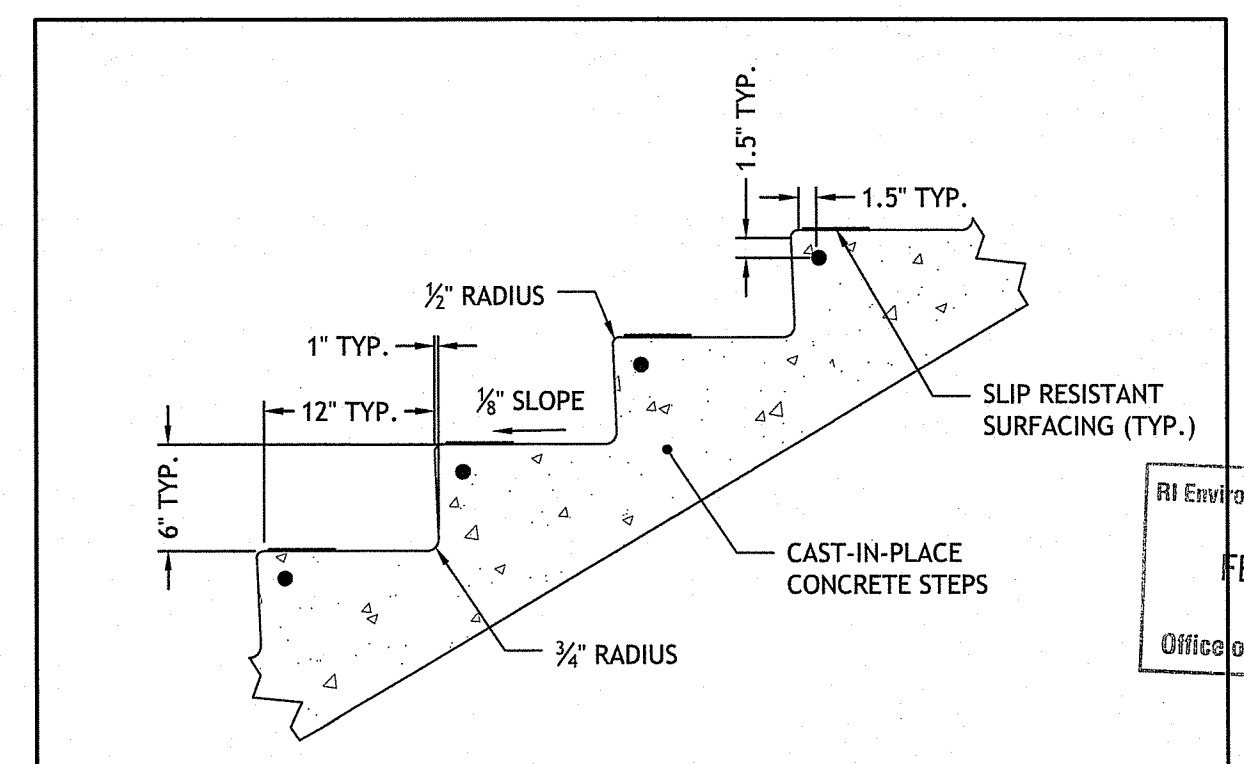
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APPROVED BY: JRL	FILE: 5 Drainage Weep Options 062215.dwg	0561 US 31 SOUTH, CHARLEVOIX, MI 49720 800.222.4400 ext 300 • registered@red-rock.com
DATE: 06-22-2015		
SHEET: 1 of 1		



DRAWN BY: JRL	TITLE: Wall Drainage Options	REDHROCK
APPROVED BY: JRL	FILE: 1 Wall Drainage Options 062215.dwg	0561 US 31 SOUTH, CHARLEVOIX, MI 49720 800.222.4400 ext 300 • registered@red-rock.com
DATE: 06-22-2015		
SHEET: 1 of 1		



14 CONCRETE STEPS AND FOUNDATION SECTION  
NOT TO SCALE



15 CONCRETE STEPS DETAIL  
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

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OFFICE OF WATER RESOURCES  
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DATED: APR 11 2024 FILE # 23-0256  
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*Nancy L. Freeman*

**JCE**  
JOE CASALI ENGINEERING, INC.  
CIVIL, SITE DEVELOPMENT, TRANSPORTATION  
DRAINAGE - 3000 POST ROAD, WARWICK, RI 02888  
(401) 944-1300 (401) 944-1313 FAX WWW.JCEONLINE.COM

JOSEPH A. CASALI  
NO. 7250  
REGISTERED PROFESSIONAL ENGINEER  
02/24/2024

**BURRILLVILLE HIGH SCHOOL**  
**SYNTHETIC TURF ATHLETICS FIELD**  
425 EAST AVENUE  
BURRILLVILLE, RHODE ISLAND  
AP 144, LOT 26 & AP 161, LOT 5

**BURRILLVILLE**  
R.I.

NO.	DATE	DESCRIPTION
1	2/26/24	RIDEM RTC

DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: NOV. 2023  
PROJECT NO: 05-92ef

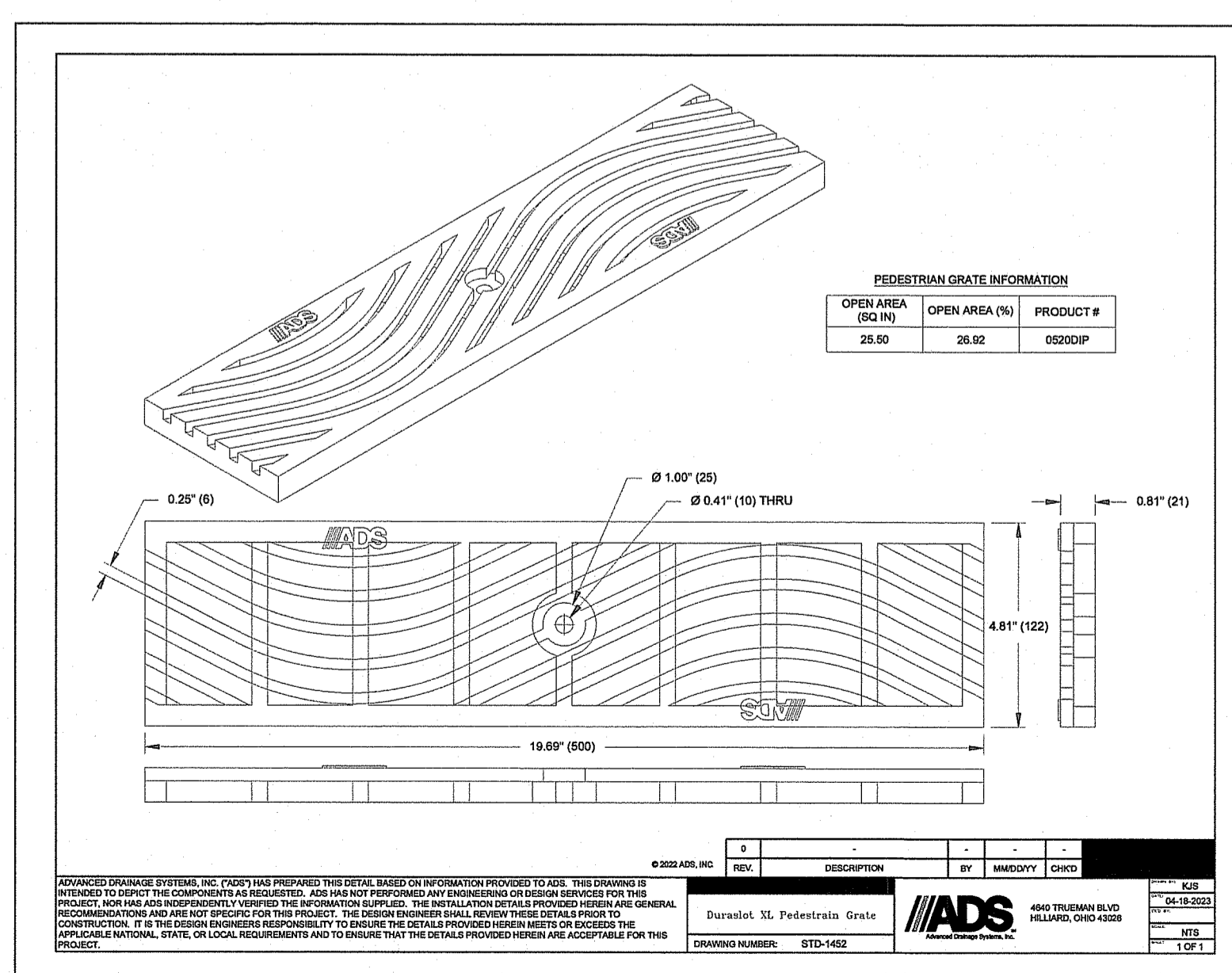
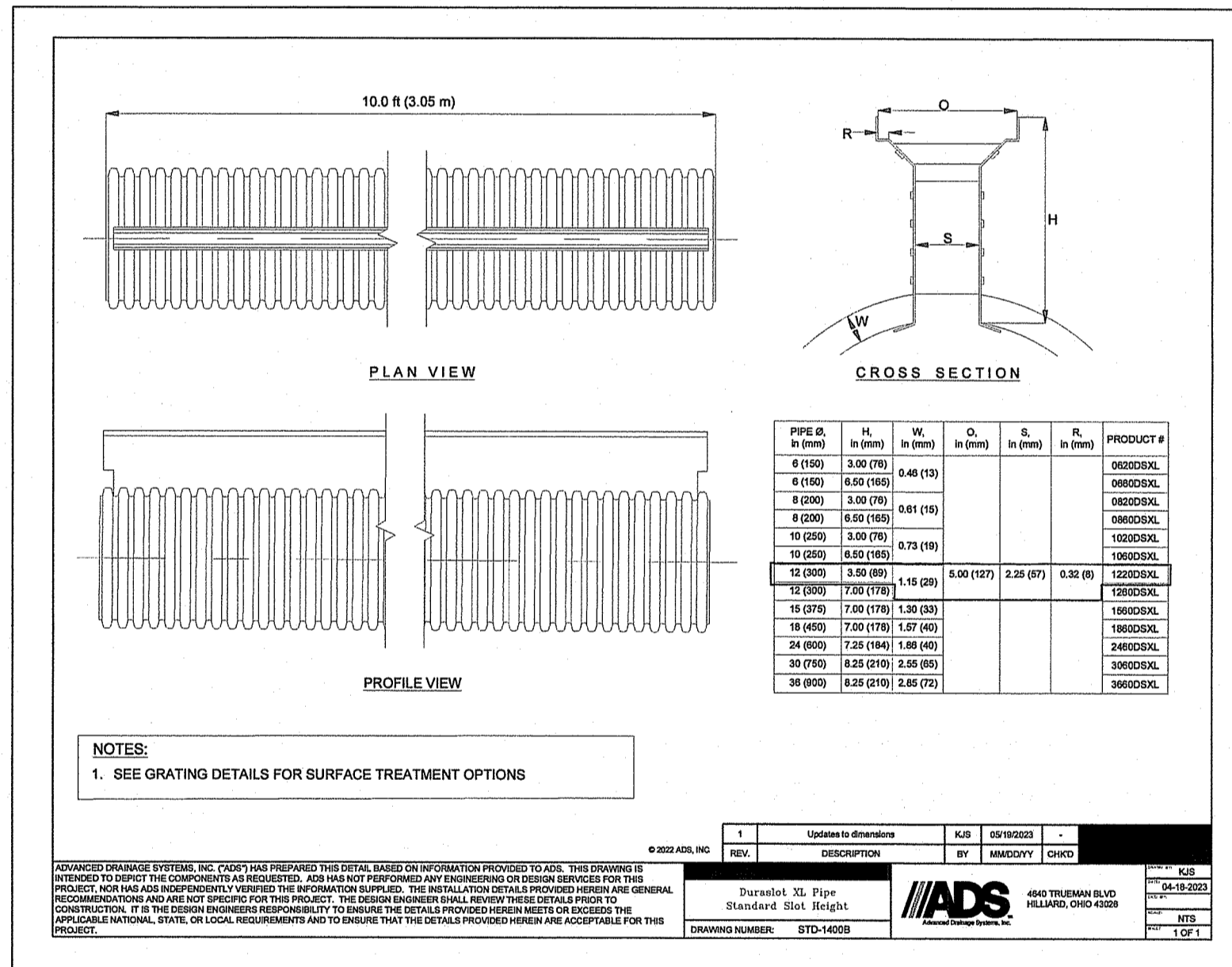
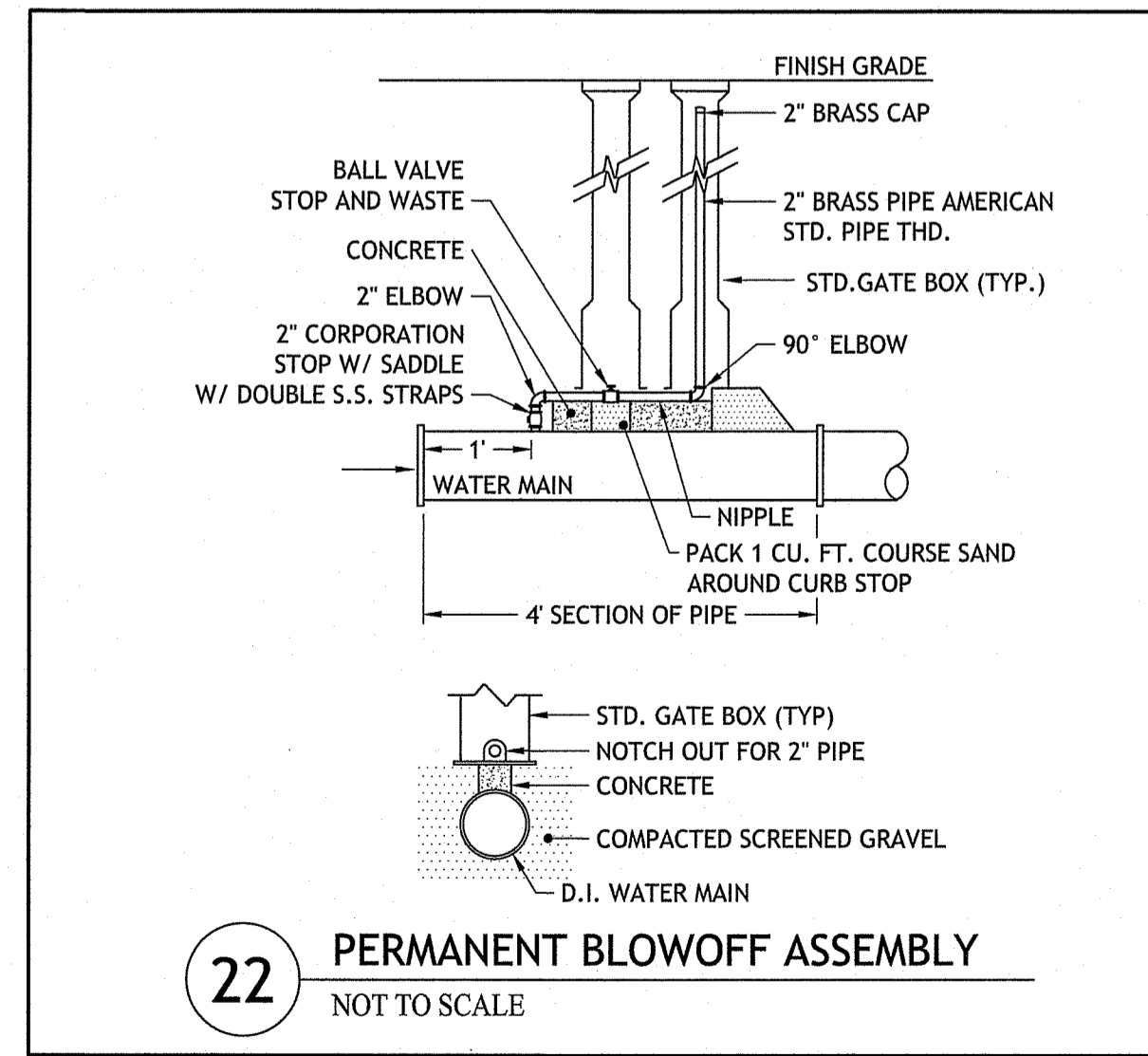
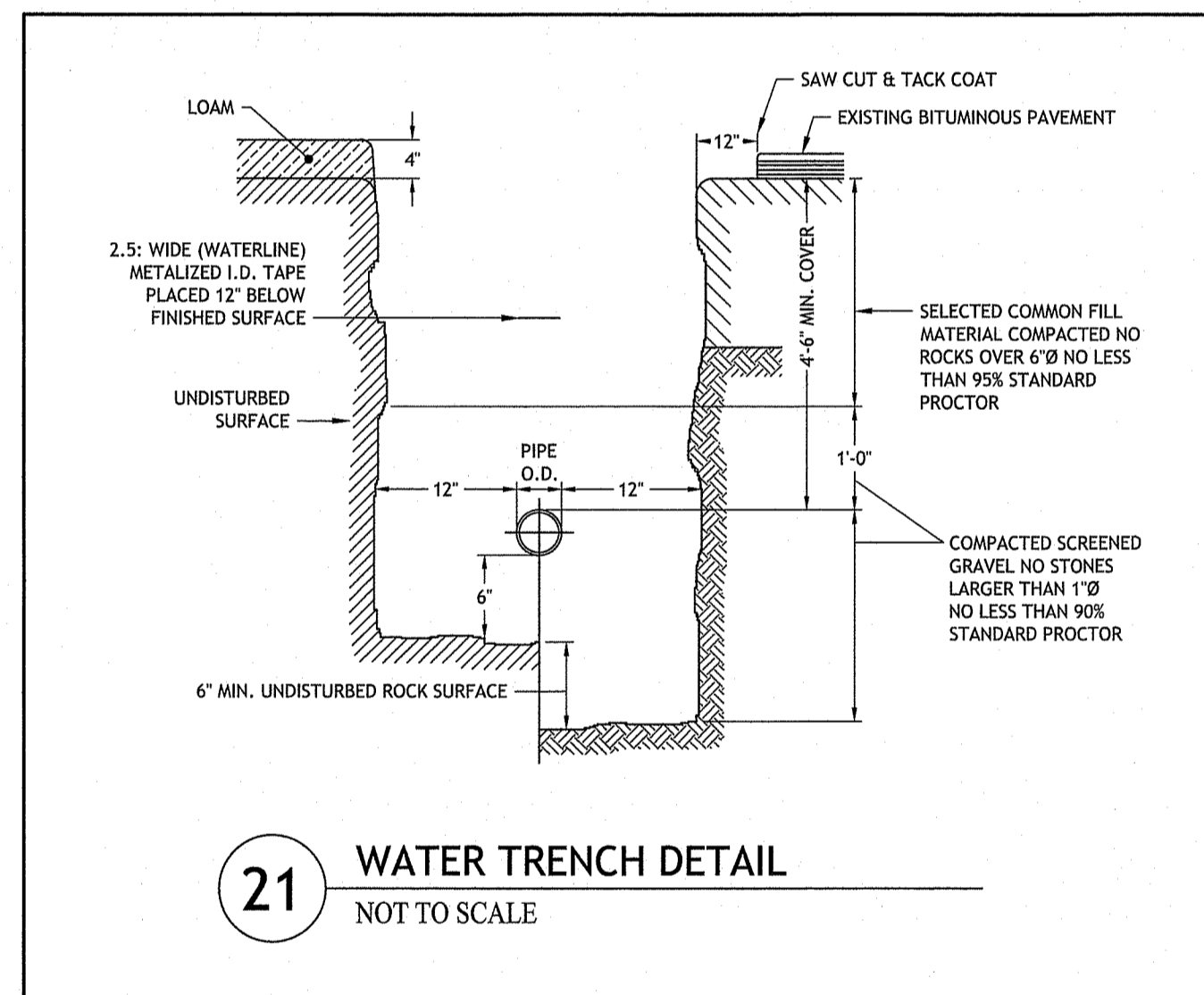
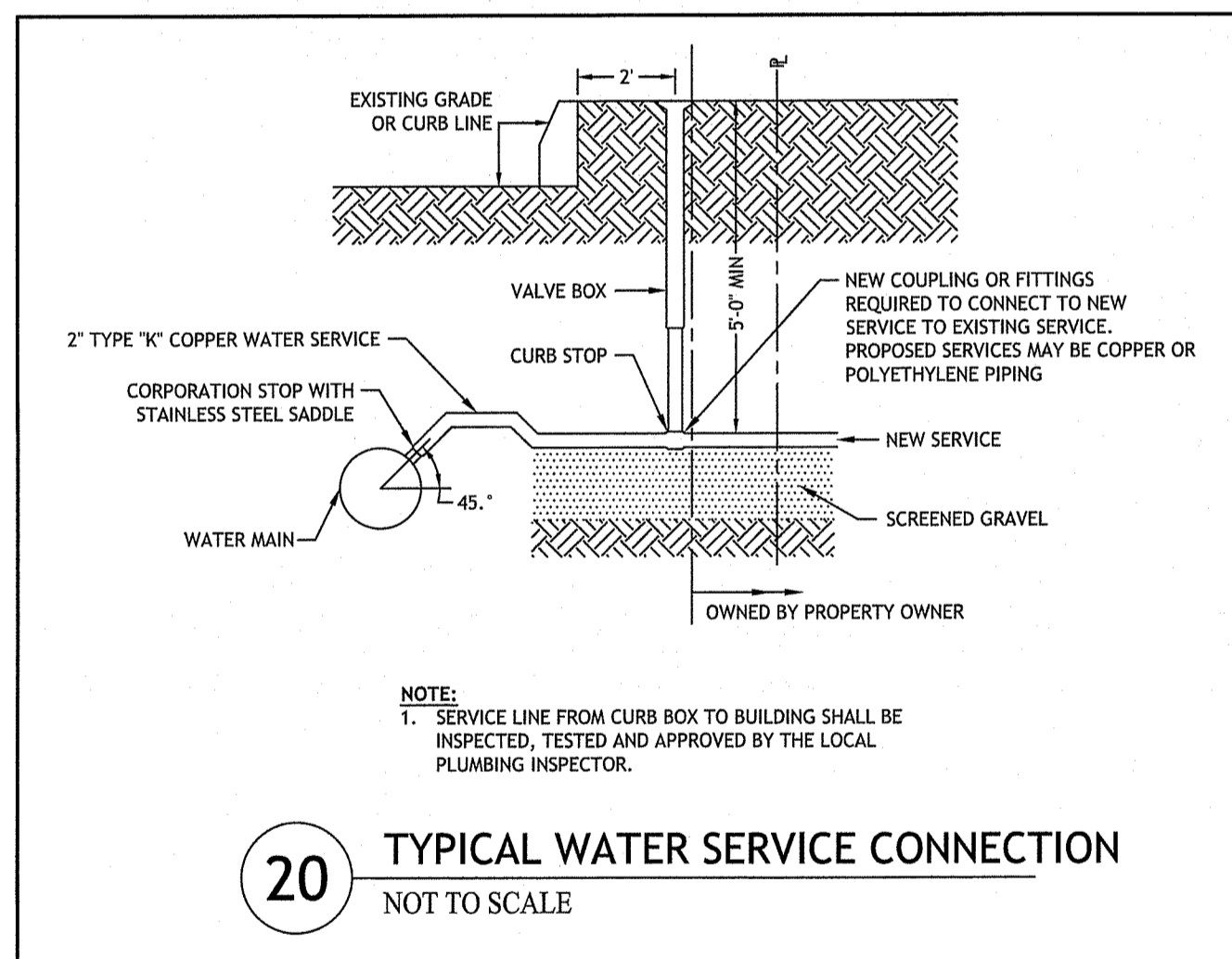
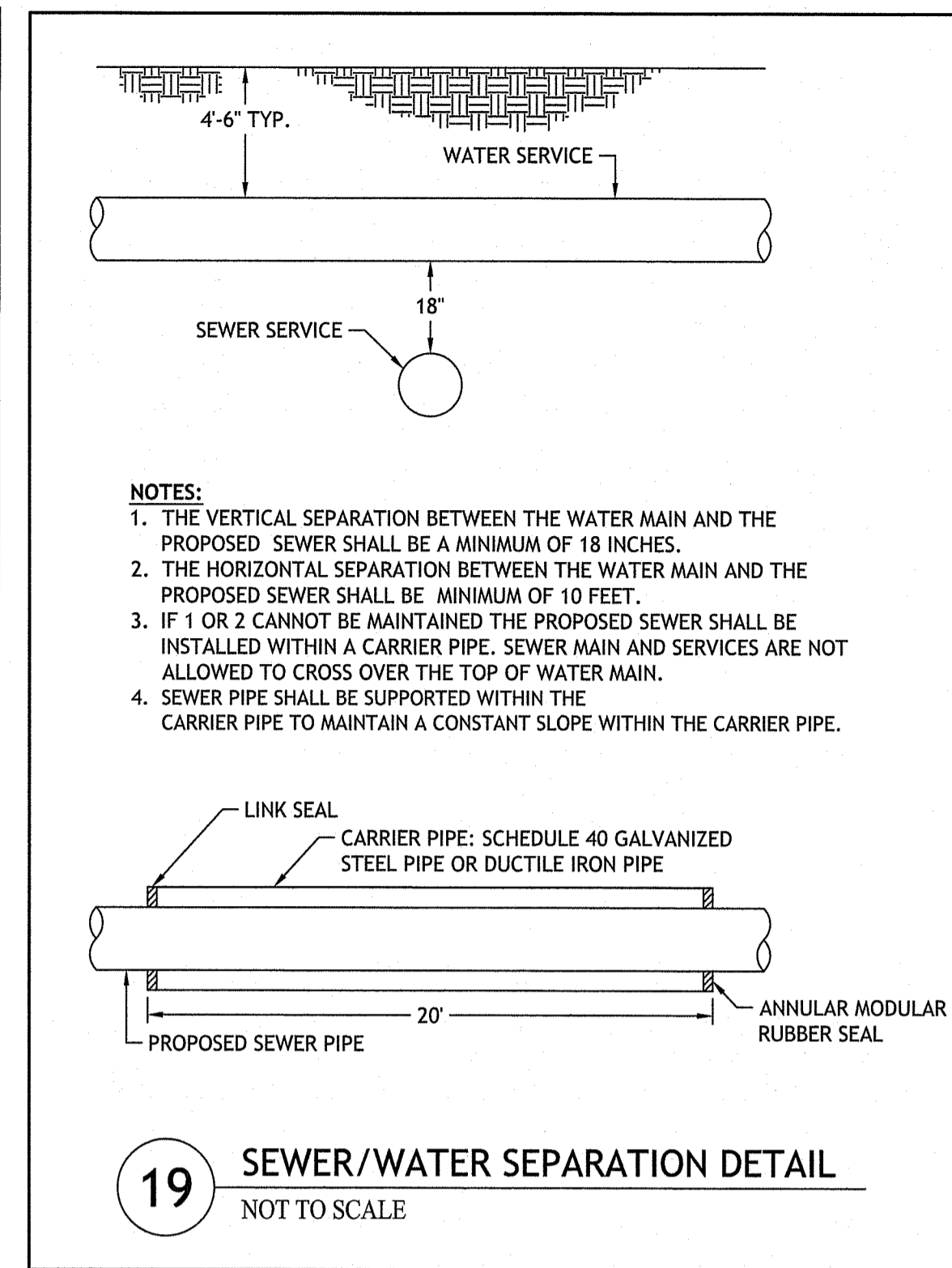
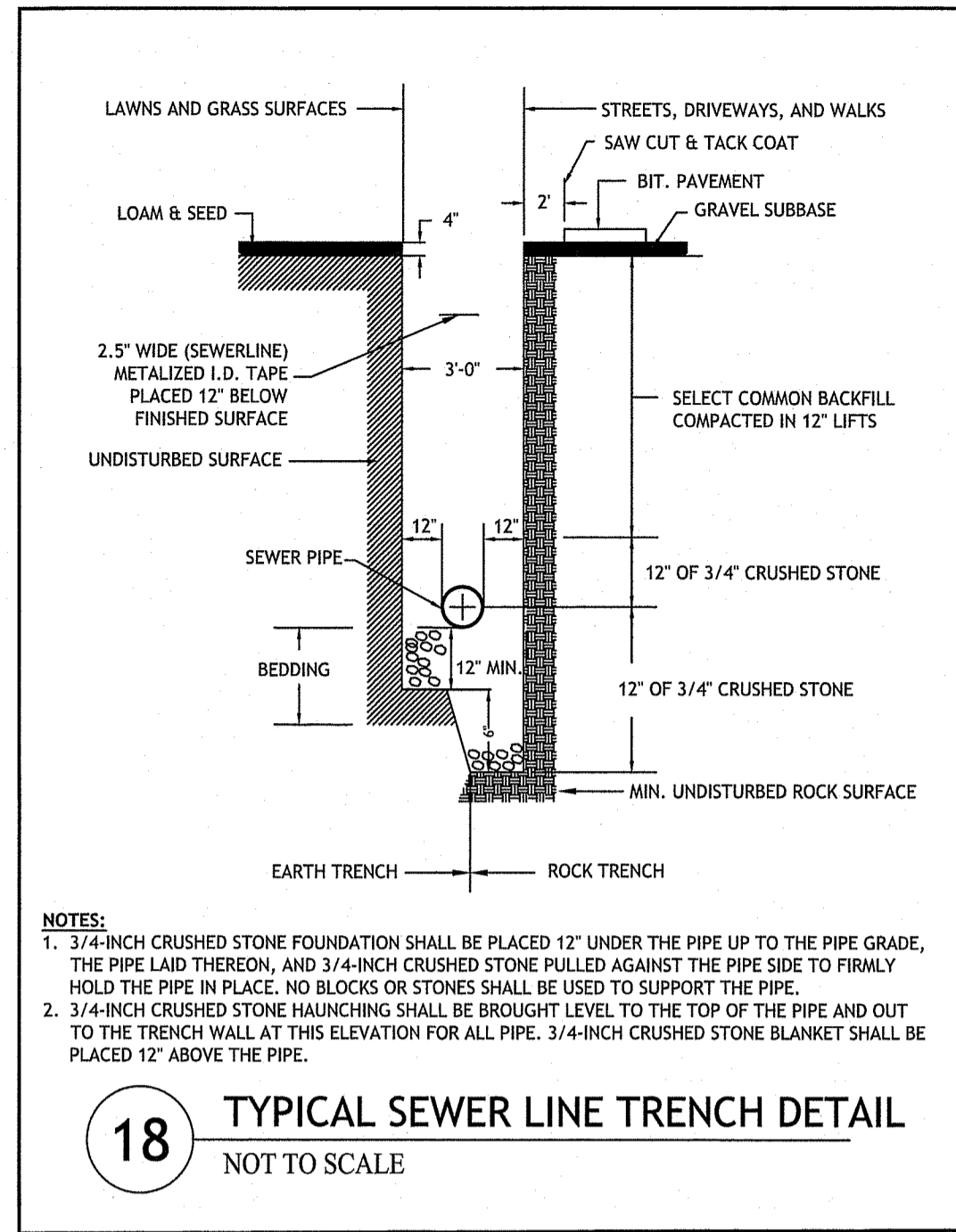
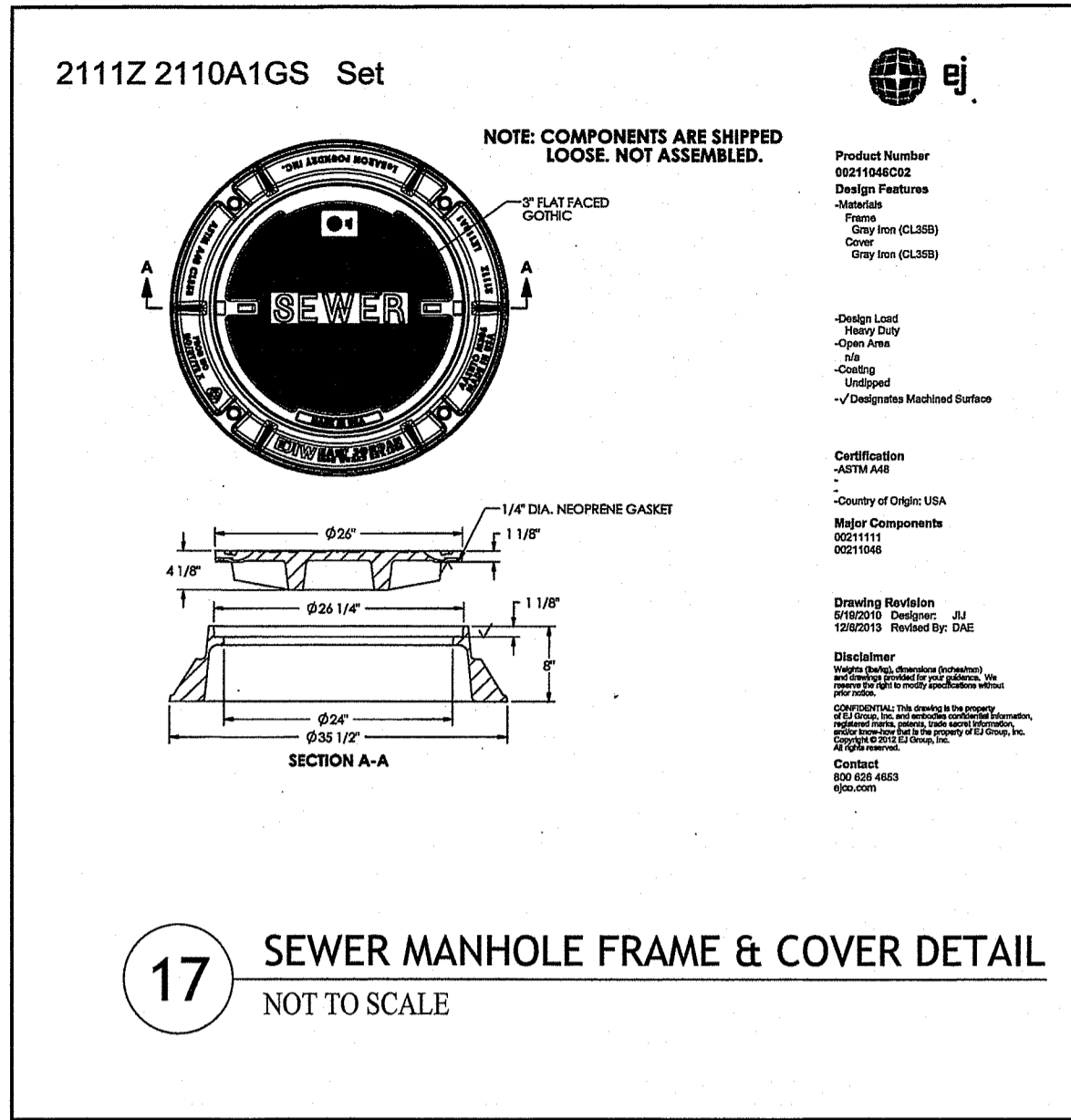
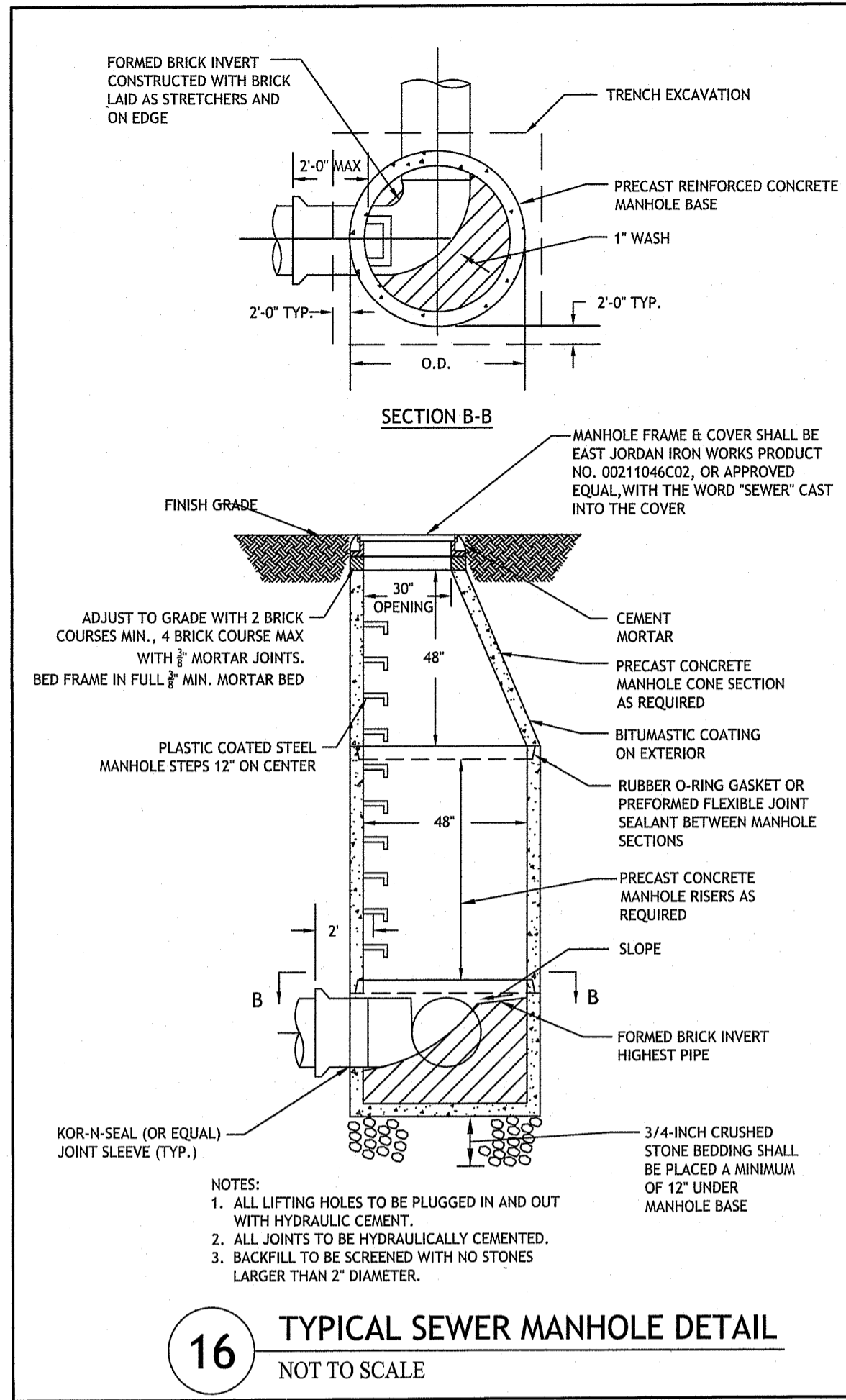
PRELIMINARY, NOT FOR CONSTRUCTION

**SITE DETAILS II**

**SHEET 9 OF 19**

Q:\05-92 Town of Burrillville\05-92c1 High School Field\CAD\Burrillville High School (RIDEM-RTC).dwg Feb. 26, 2024 8:08am

Q:\05-92 Town of Burrillville\05-92cf High School Field\ACAD\Burrillville High School [RIDEAM-RTC].dwg Feb. 26, 2024 8:08am

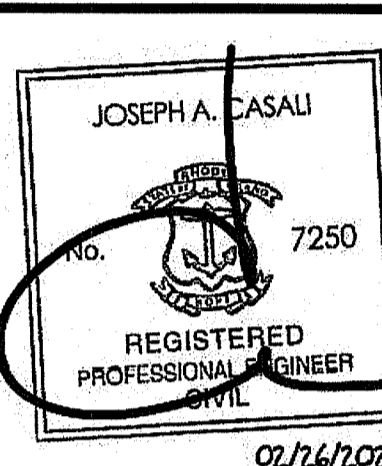
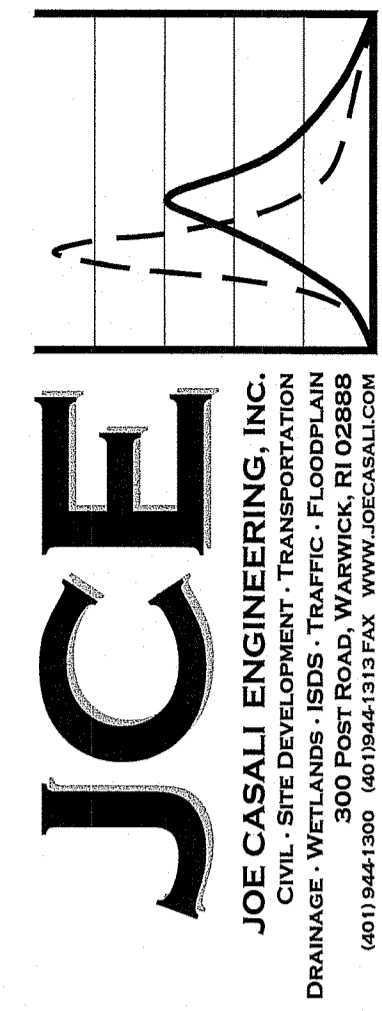


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OFFICE OF WATER RESOURCES  
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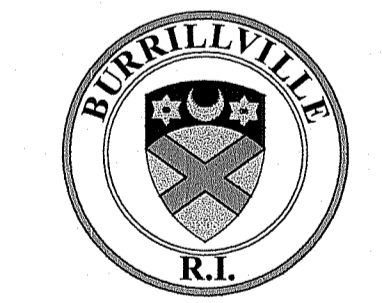
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02/26/2024

BURRILLVILLE HIGH SCHOOL  
SYNTHETIC TURF ATHLETICS FIELD  
425 EAST AVENUE  
BURRILLVILLE, RHODE ISLAND  
AP 144, LOT 26 & AP 161, LOT 5



REVISIONS:

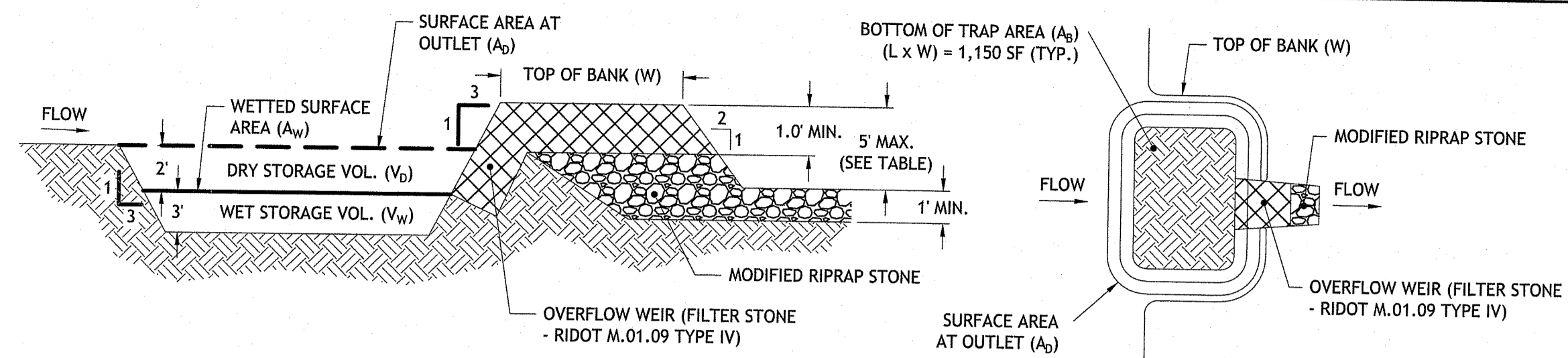
NO.	DATE	DESCRIPTION
1	2/26/24	RIDEM RTC

DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: NOV. 2023  
PROJECT NO: 05-92cf

PRELIMINARY, NOT FOR CONSTRUCTION

SITE DETAILS III

SHEET 10 OF 19

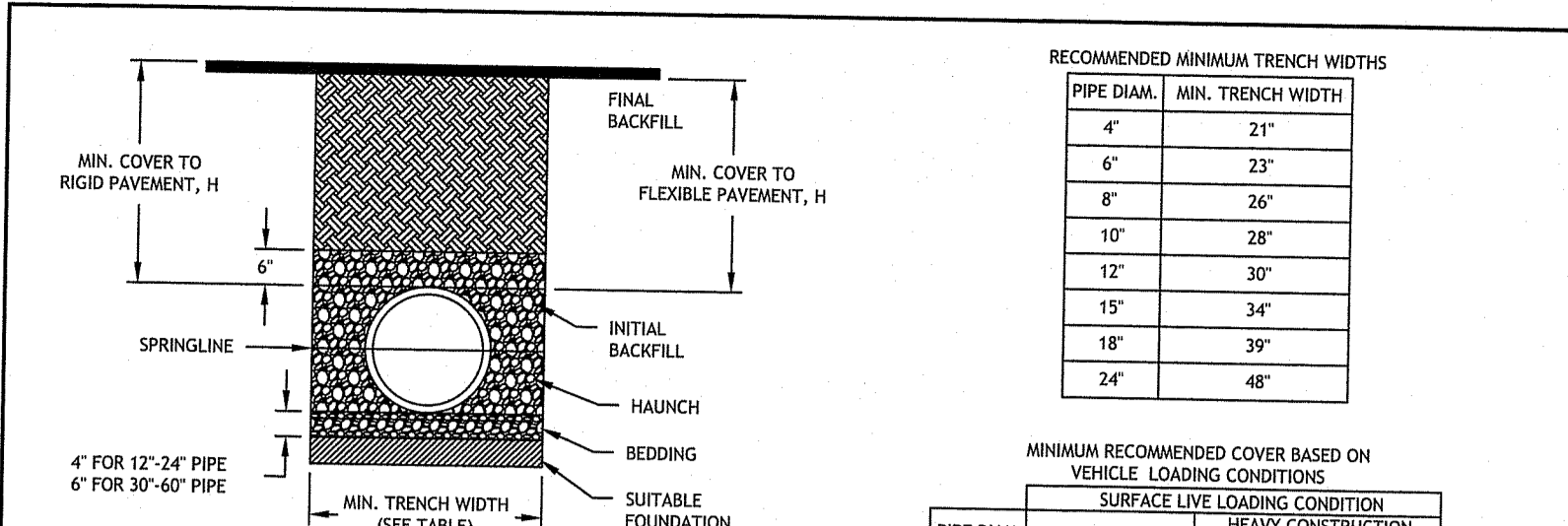


- NOTES:**
- APPROXIMATE SEDIMENT TRAP LOCATIONS ARE SHOWN ON THE SITE PREPARATION PLAN (SHEET 2). IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD FIT AND DETERMINE ACTUAL SEDIMENT TRAP SIZES, LOCATIONS, DIVERSION BERM LOCATIONS, SWALES, SILT FENCE LOCATIONS AND ANY OTHER APPROPRIATE SEDIMENT CONTROL MEASURES. ALL SOIL EROSION MEASURES SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (2016).
  - PROPOSED SEDIMENT TRAPS SHOWN SHALL BE DESIGNED TO ACCOMMODATE DRAINAGE FROM CONTRIBUTING AREA OF 3 ACRES.
  - TEMPORARY SEDIMENT TRAP SHALL BE PROVIDED A SEDIMENT STORAGE STAKE AND MARKER, IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (2016).
  - TEMPORARY DRAINAGE SWALES, IF NECESSARY, SHALL BE CONSTRUCTED TO CONVEY RUNOFF TOWARDS THE TEMPORARY SEDIMENT TRAPS.

**TOP WIDTH VS. HEIGHT**  
 $H = \text{HEIGHT OF EMBANKMENT}$   
 $W = \text{TOP WIDTH OF EMBANKMENT}$

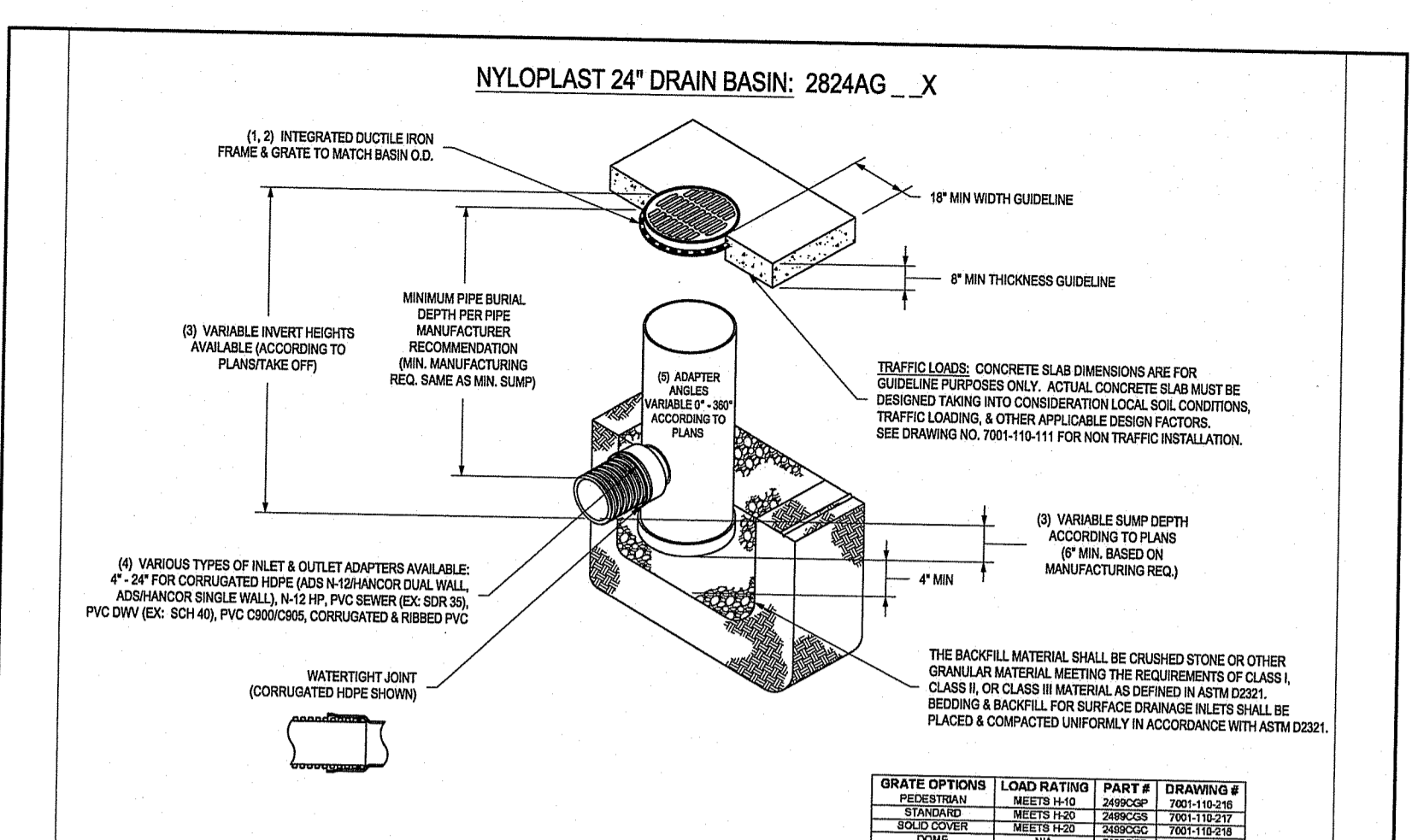
H (ft)	W (ft)
1.5	2.0
2.0	2.0
2.5	2.5
3.0	2.5
3.5	3.0
4.0	3.0
4.5	4.0
5.0	4.5

**23** TEMPORARY SEDIMENT TRAP DETAIL  
NOT TO SCALE



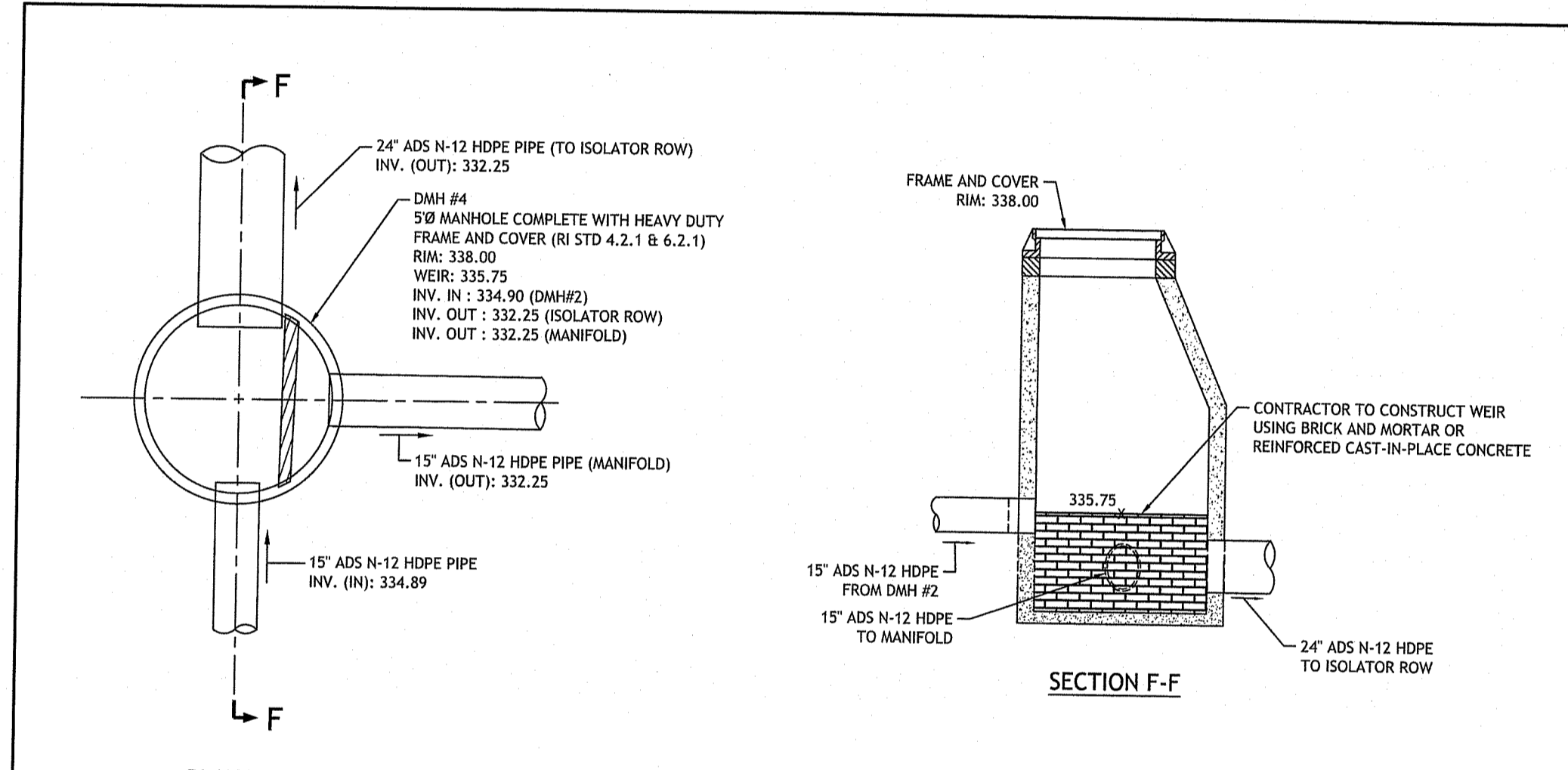
- NOTES:**
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
  - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL,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

**24** DRAIN PIPE TRENCH INSTALLATION DETAIL  
NOT TO SCALE

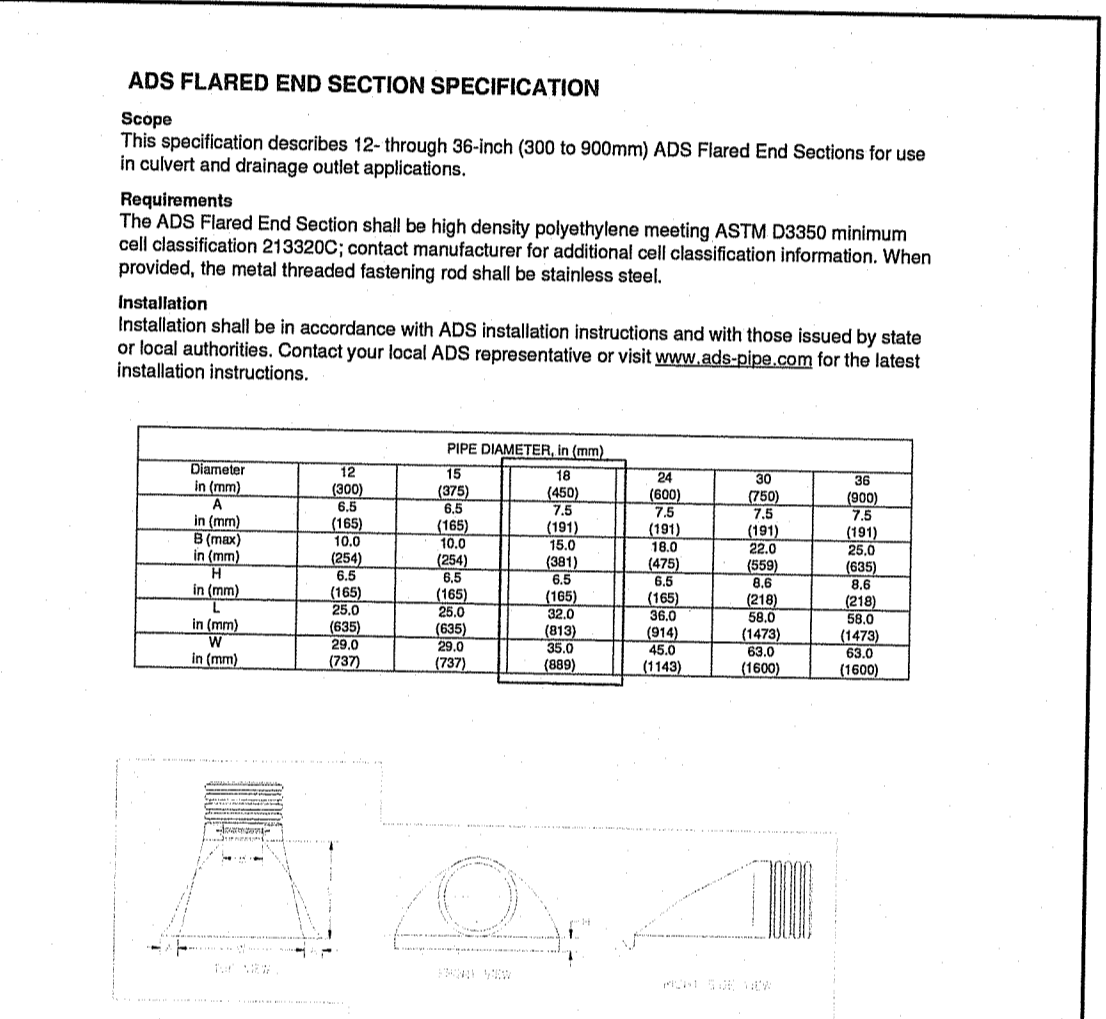


- NOTES:**
- GRAVEL ROAD COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 15-34.
  - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 15-34.
  - FRAMES ARE TO BE CUSTOM MANUFACTURED TO MATCH MANUFACTURER'S SPECIFICATIONS. SEE DRAWING NO. 7001-101-101 FOR NON-TRAFFIC INSTALLATION.
  - CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ASTM D2321, LATEST EDITION.
  - ADAPTERS CAN BE MOUNTED ON ANY ANGLE UP TO 30° TO DETERMINE MINIMUM PERMISSIBLE COVER BY SPECIFIC WEIGHT PERMISSIBLE FROM NYLOPLAST.

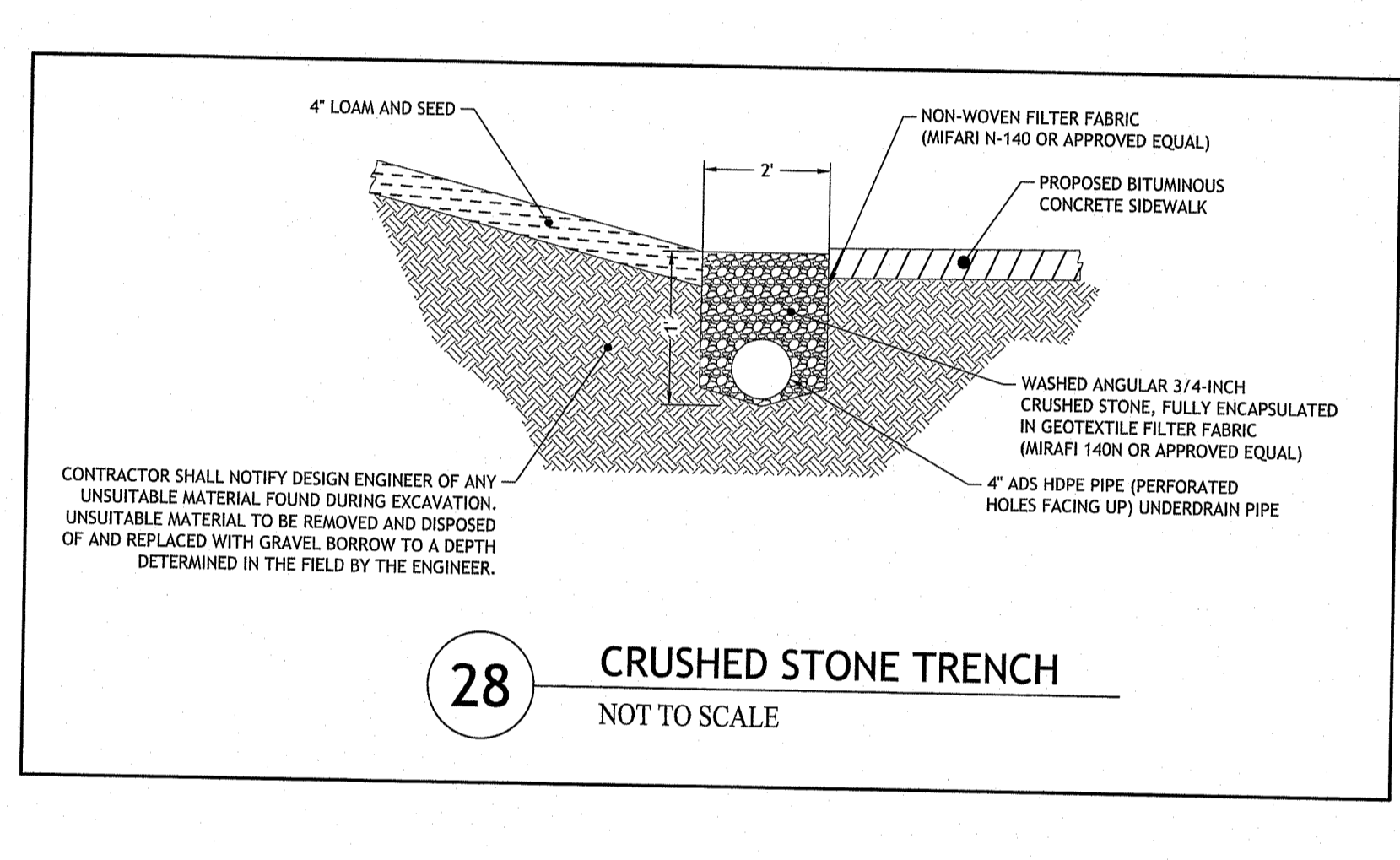
**25** NYLOPLAST DRAIN BASIN DETAIL  
NOT TO SCALE



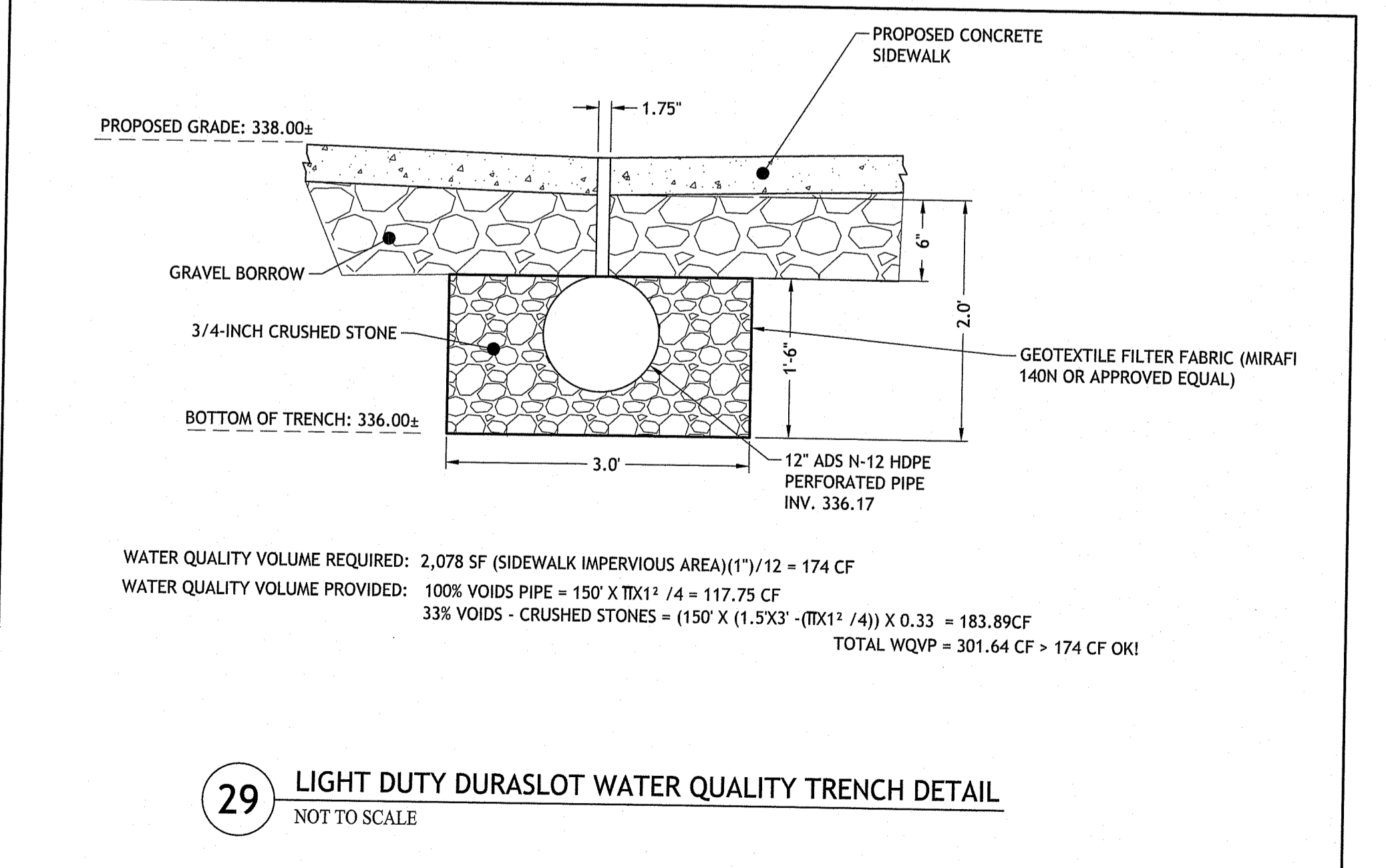
**26** DMH #4 - DIVERSION MANHOLE  
NOT TO SCALE



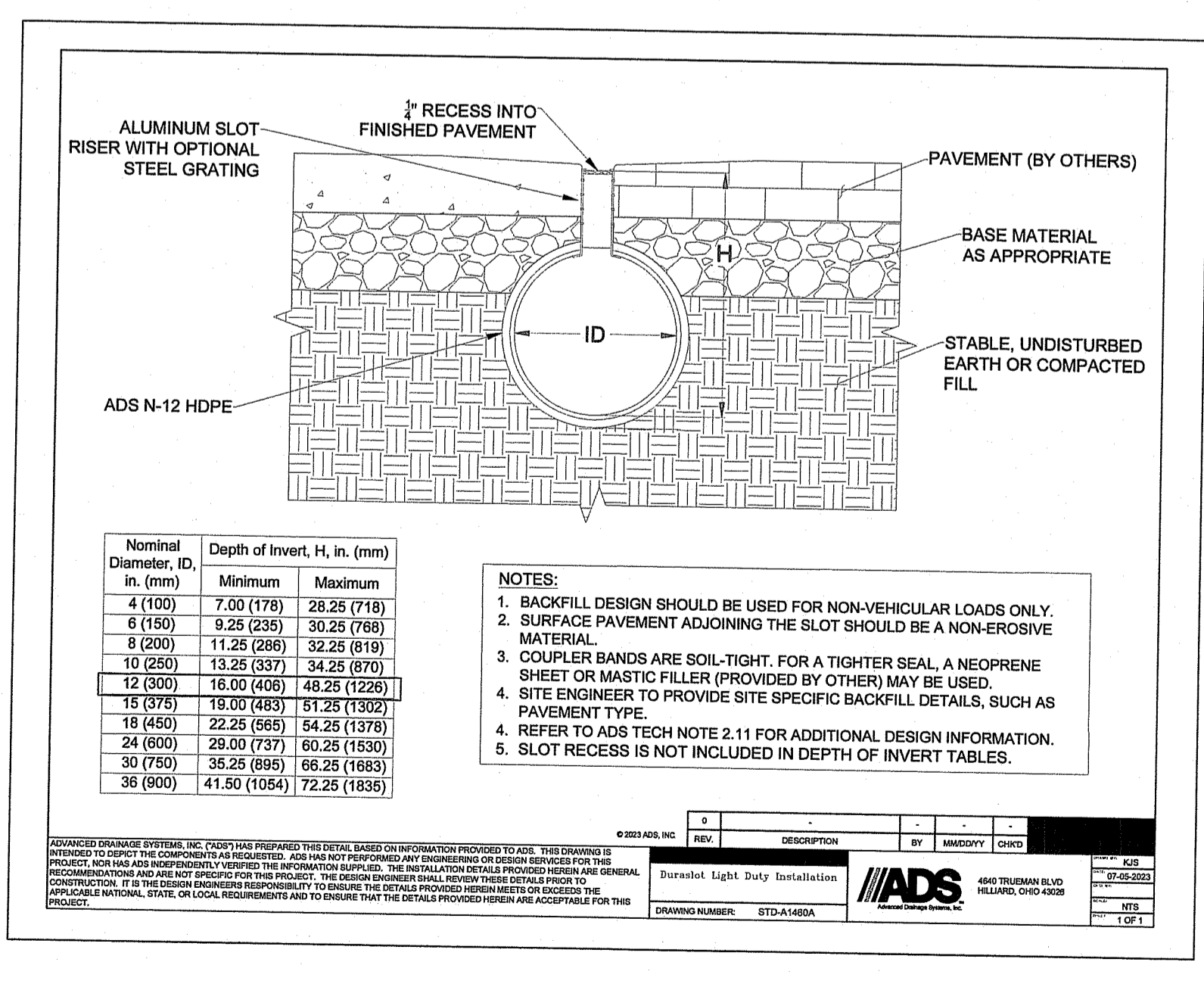
**27** FLARED END SECTION DETAIL  
NOT TO SCALE



**28** CRUSHED STONE TRENCH  
NOT TO SCALE



**29** LIGHT DUTY DURASLOT WATER QUALITY TRENCH DETAIL  
NOT TO SCALE



- NOTES:**
- BACKFILL DESIGN SHOULD BE USED FOR NON-VEHICULAR LOADS ONLY.
  - SURFACE PAVEMENT ADJOINING THE SLOT SHOULD BE A NON-EROSIVE MATERIAL.
  - COUPLER BANDS ARE SOIL-TIGHT. FOR A TIGHTER SEAL, A NEOPRENE SHEET OR MASTIC FILLER (PROVIDED BY OTHER) MAY BE USED.
  - SITE ENGINEER TO PROVIDE SITE SPECIFIC BACKFILL DETAILS, SUCH AS PAVEMENT TYPE.
  - REFER TO ADS TECH NOTE 2.11 FOR ADDITIONAL DESIGN INFORMATION.
  - SLOT RECESS IS NOT INCLUDED IN DEPTH OF INVERT TABLES.

Nominal Diameter, ID, in. (mm)	Depth of Invert, H, in. (mm)	Minimum	Maximum
4 (100)	7.00 (178)	28.25 (718)	
6 (150)	8.25 (209)	30.25 (768)	
8 (200)	11.25 (286)	32.25 (818)	
10 (250)	13.25 (337)	34.25 (870)	
12 (300)	16.00 (406)	48.25 (1226)	
18 (450)	18.00 (457)	51.25 (1302)	
18 (450)	22.25 (565)	54.25 (1376)	
24 (600)	28.00 (713)	60.25 (1530)	
30 (750)	35.25 (895)	68.25 (1733)	
36 (900)	41.50 (1054)	72.25 (1833)	

NO.	REV.	DESCRIPTION	BY	DATE
1	1	ISSUED FOR PERMIT	JAC	05-23-2024

RI Environmental Management  
**FEB 20 2024**  
 Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 NOTE PER DEM:  
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

**JCE**  
 JOE CASALI ENGINEERING, INC.  
 CIVIL SITE DEVELOPMENT - TRANSPORTATION  
 DRAINAGE - WATER POLLUTION CONTROL - EROSION CONTROL  
 3000 POST ROAD, WARWICK, RI 02886  
 (401) 944-1300 | (401) 944-1313 FAX | WWW.JCE-RI.COM

JOSEPH A. CASALI  
 No. 7250  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 02/14/2024

**BURRILLVILLE HIGH SCHOOL**  
**SYNTHETIC TURF ATHLETICS FIELD**  
 425 EAST AVENUE  
 BURRILLVILLE, RHODE ISLAND  
 AP 144, LOT 26 & AP 161, LOT 5

**BURRILLVILLE**  
 R.I.

**REVISIONS:**

NO.	DATE	DESCRIPTION
1	2/26/24	RIDEM RTC

DESIGNED BY: DRD  
 DRAWN BY: SD/SEP  
 CHECKED BY: JAC  
 DATE: NOV. 2023  
 PROJECT NO.: 05-92-04

PRELIMINARY, NOT FOR CONSTRUCTION

**SITE DETAILS IV**

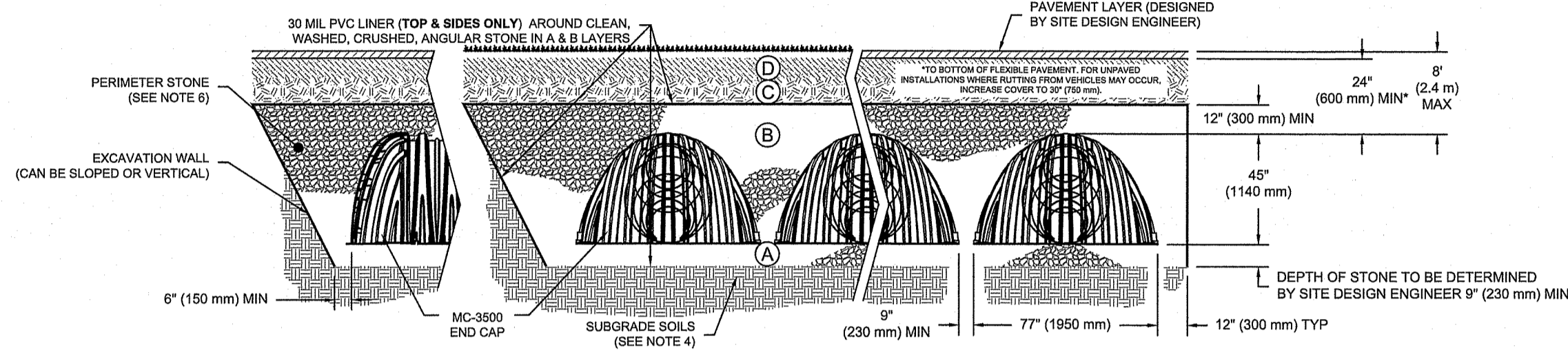
**SHEET 11 OF 19**

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: APR 11 2024 FILE #: 23-0256  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
 Nancy L. Freeman

**ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS**

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASES MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBBASE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 2" (50 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASES MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <3% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M44 <sup>3</sup> A-1, A-2.4, A-3 OR AASHTO M43 <sup>3</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 2" (50 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 98% PROCTOR DENSITY FOR WELL-GRADED MATERIAL AND 90% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, WASHED, CRUSHED, ANGULAR STONE	AASHTO M43 <sup>3</sup> 3, 4	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, WASHED, CRUSHED, ANGULAR STONE	AASHTO M43 <sup>3</sup> 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. **

PLEASE NOTE:  
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, WASHED, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".  
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (230 mm) MAX LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



**NOTES:**

- MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

**30 STORMTECH MC-3500 CROSS SECTION DETAIL**  
NOT TO SCALE

STANDARD CROSS SECTION  
 DATE: 11/18/14  
 DRAWN: JLM  
 CHECKED: JLM  
 PROJECT #:  
 SHEET 1 OF 1

**INSPECTION & MAINTENANCE**

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT  
 A. INSPECTION PORTS (IF PRESENT)  
 A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN  
 A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED  
 A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG  
 A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)  
 A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.  
 B. ALL ISOLATOR ROWS  
 B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW  
 B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE  
 B.3. MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY  
 B.4. FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE  
 B.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS  
 A. A FIXED CURVE CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED  
 B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN  
 C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

**NOTES**  
 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.  
 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

**31 STORMTECH MC-3500 ISOLATOR ROW DETAIL**  
NOT TO SCALE

**STORMTECH GENERAL NOTES:**

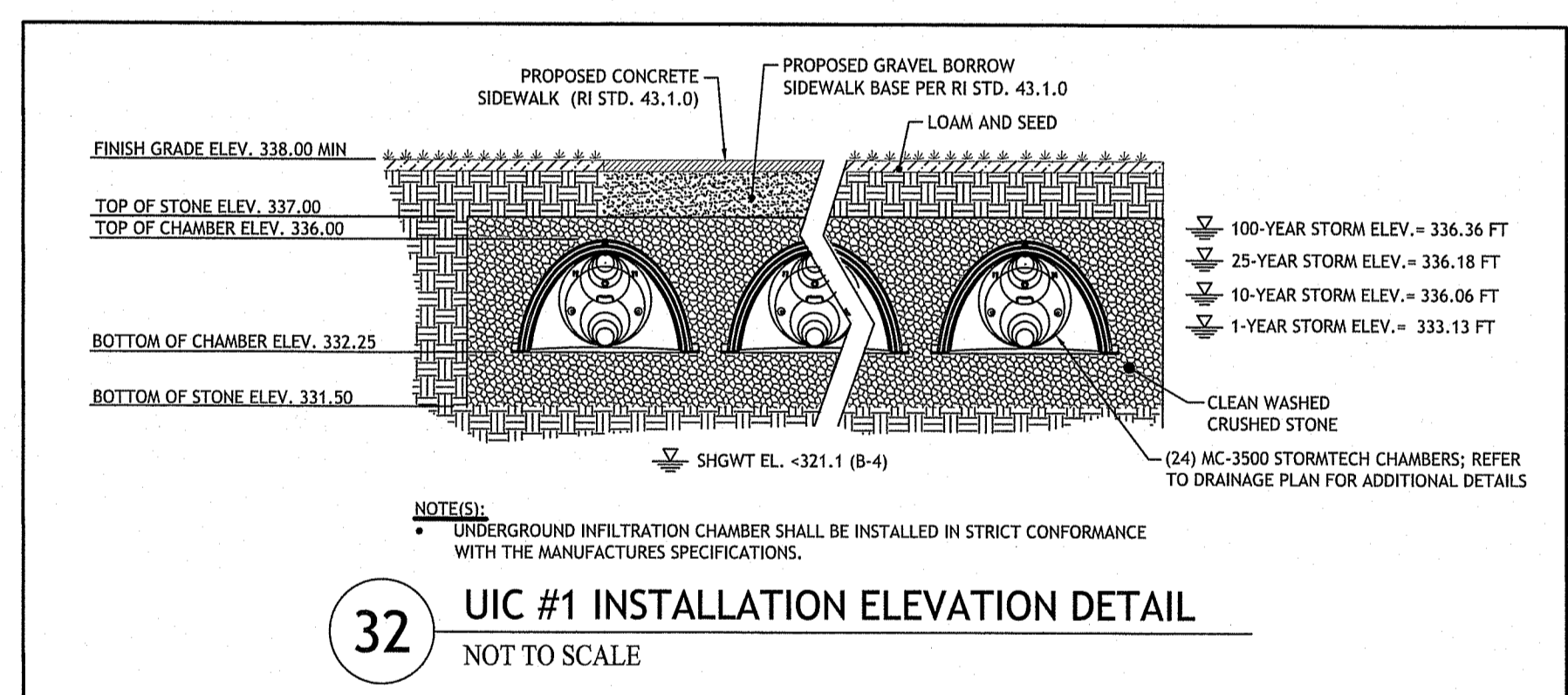
- STORMTECH LLC ("STORMTECH") REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
- OUR TECHNICAL SERVICES DEPARTMENT OFFERS INSTALLATION CONSULTATIONS TO INSTALLING CONTRACTORS. CONTACT OUR TECHNICAL SERVICES REPRESENTATIVE AT LEAST 30 DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE A PRE-INSTALLATION CONSULTATION. OUR REPRESENTATIVES CAN THEN ANSWER QUESTIONS OR ADDRESS COMMENTS ON THE STORMTECH CHAMBER SYSTEM AND INFORM THE INSTALLING CONTRACTOR OF THE MINIMUM INSTALLATION REQUIREMENTS BEFORE BEGINNING THE SYSTEM'S CONSTRUCTION. CALL 1-888-892-2694 TO SPEAK TO A TECHNICAL SERVICE REPRESENTATIVE OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF OUR INSTALLATION INSTRUCTIONS.
- STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.): MINIMUM COVER IS 18 INCHES NOT INCLUDING PAVEMENT; MAXIMUM COVER IS 36 INCHES INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 24 INCHES, MAXIMUM COVER IS 36 INCHES.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
- AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.
- STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
- BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE: WWW.STORMTECH.COM. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.
- THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.
- STORMTECH PRODUCT WARRANTY IS LIMITED. SEE CURRENT PRODUCT WARRANTY FOR DETAILS. TO ACQUIRE A COPY CALL STORMTECH AT 1-888-892-2694 OR VISIT WWW.STORMTECH.COM.

**STORMWATER CHAMBER SPECIFICATIONS:**

- CHAMBERS SHALL BE STORMTECH MC-3500 OR APPROVED EQUAL.
- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD INHIBIT FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F 2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".  
 a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.  
 b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET, THE 30 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.  
 c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST CONSTRUCTION GUIDE.

**NOTES FOR THE INSTALLATION OF THE MC-3500 SYSTEM:**

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
  - STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
  - CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:  
 • STONESHOOTER LOCATED OFF THE CHAMBER BED.  
 • BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.  
 • BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
  - THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
  - JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
  - MAINTAIN MINIMUM 6" SPACING BETWEEN THE CHAMBER ROWS.
  - EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4"-2".
  - THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
  - ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.
- NOTES FOR CONSTRUCTION EQUIPMENT:**
- STORMTECH MC-3500 & MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
  - THE USE OF CONSTRUCTION EQUIPMENT OVER MC-3500 & MC-4500 CHAMBERS IS LIMITED:  
 • NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.  
 • NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".  
 • WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
  - FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
  - USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
  - CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



**32 UIC #1 INSTALLATION ELEVATION DETAIL**  
NOT TO SCALE

Q:\05-92 Town of Burrillville\05-92c High School Field\ACAD\Burrillville High School (RIDEA-RTC).dwg Feb. 26, 2024 8:08am

RI Environmental Management  
 FEB 26 2024  
 Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

**JCE**  
 JOE CASALI ENGINEERING, INC.  
 CIVIL, SITE DEVELOPMENT, TRANSPORTATION  
 DRAINAGE, 1830 POST ROAD, WARWICK, RI 02886  
 (401) 844-1300 (401) 844-1313 FAX WWW.JCECASA.COM

JOSEPH A. CASALI  
 No. 7250  
 REGISTERED PROFESSIONAL ENGINEER  
 02/14/2024

**BURRILLVILLE HIGH SCHOOL  
 SYNTHETIC TURF ATHLETICS FIELD**  
 425 EAST AVENUE  
 BURRILLVILLE, RHODE ISLAND  
 AP 144, LOT 26 & AP 161, LOT 5

**REVISIONS:**

NO.	DATE	DESCRIPTION
1	2/26/24	RIDEM RTC

DESIGNED BY: DRD  
 DRAWN BY: SD/SEP  
 CHECKED BY: JAC  
 DATE: NOV. 2023  
 PROJECT NO: 05-92c

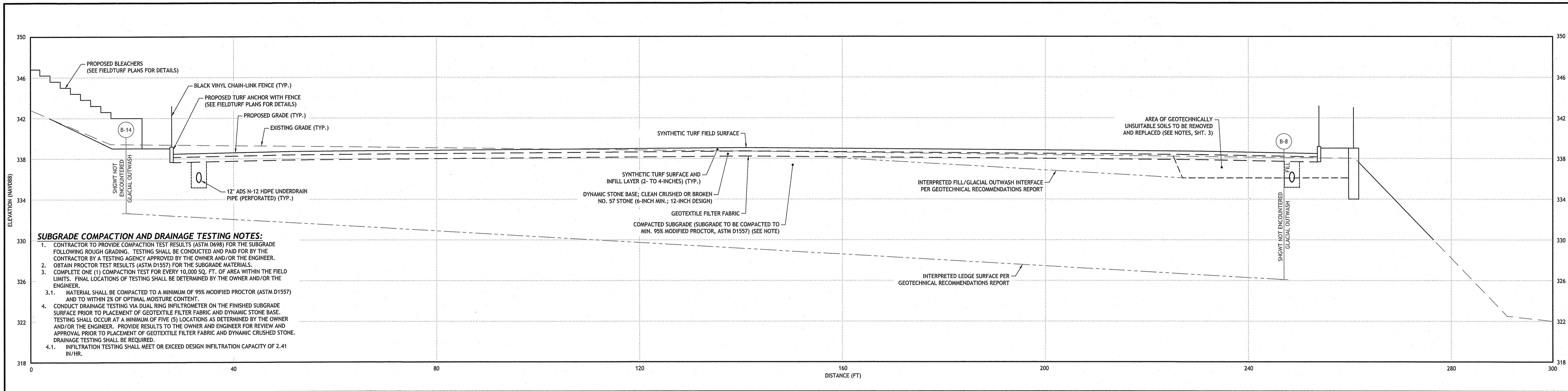
PRELIMINARY, NOT FOR CONSTRUCTION

**SITE DETAILS V**

**SHEET 12 OF 19**

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: APR 11 2024 FILE #: 23-0256  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
 Nancy L. Freeman

0:\05-92\_Town of Burrillville\05-92\High School Field\ACAD\Burrillville\_High\_School\_RIDEM\_RTC.dwg Feb. 26, 2024 8:08am



PROPOSED FIELD PROFILE - SECTION A-A  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 5'

RI Environmental Management  
 FEB 26 2024  
 Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
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 NOTE PER DEM:  
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Walter L. Freeman*

**JCE**  
 JOE CASALI ENGINEERING, INC.  
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION  
 1450 W. MAIN STREET, SUITE 100  
 3000 POST ROAD, WARWICK, RI 02888  
 (401) 944-1300 (401) 944-1313 FAX WWW.JOECASALI.COM

JOSEPH A. CASALI  
 NO. 7250  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 02/16/2024

**BURRILLVILLE HIGH SCHOOL**  
**SYNTHETIC TURF ATHLETICS FIELD**  
 425 EAST AVENUE  
 BURRILLVILLE, RHODE ISLAND  
 AP 144, LOT 26 & AP 161, LOT 5

NO.	DATE	DESCRIPTION
1	2/26/24	RIDEM RTC

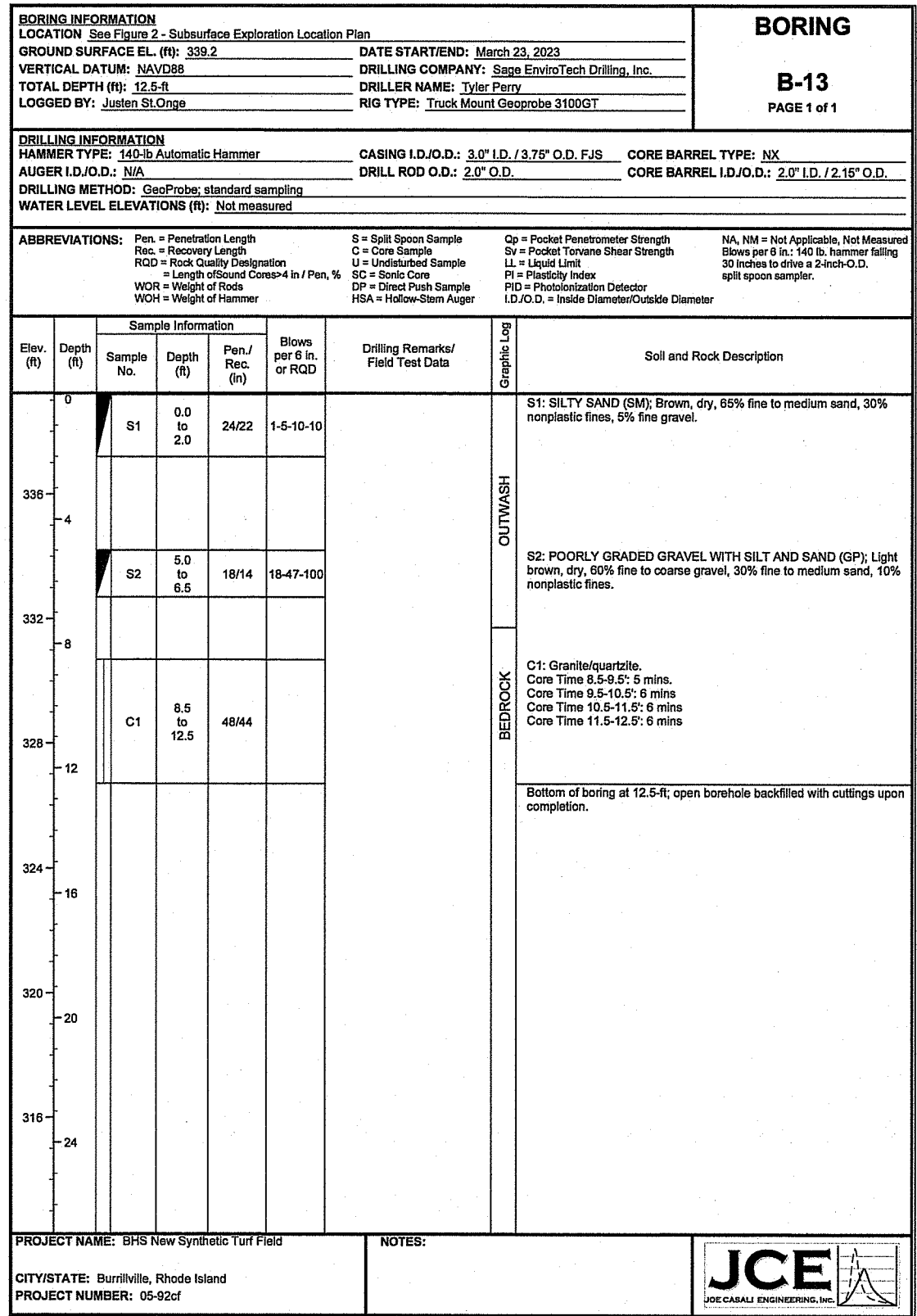
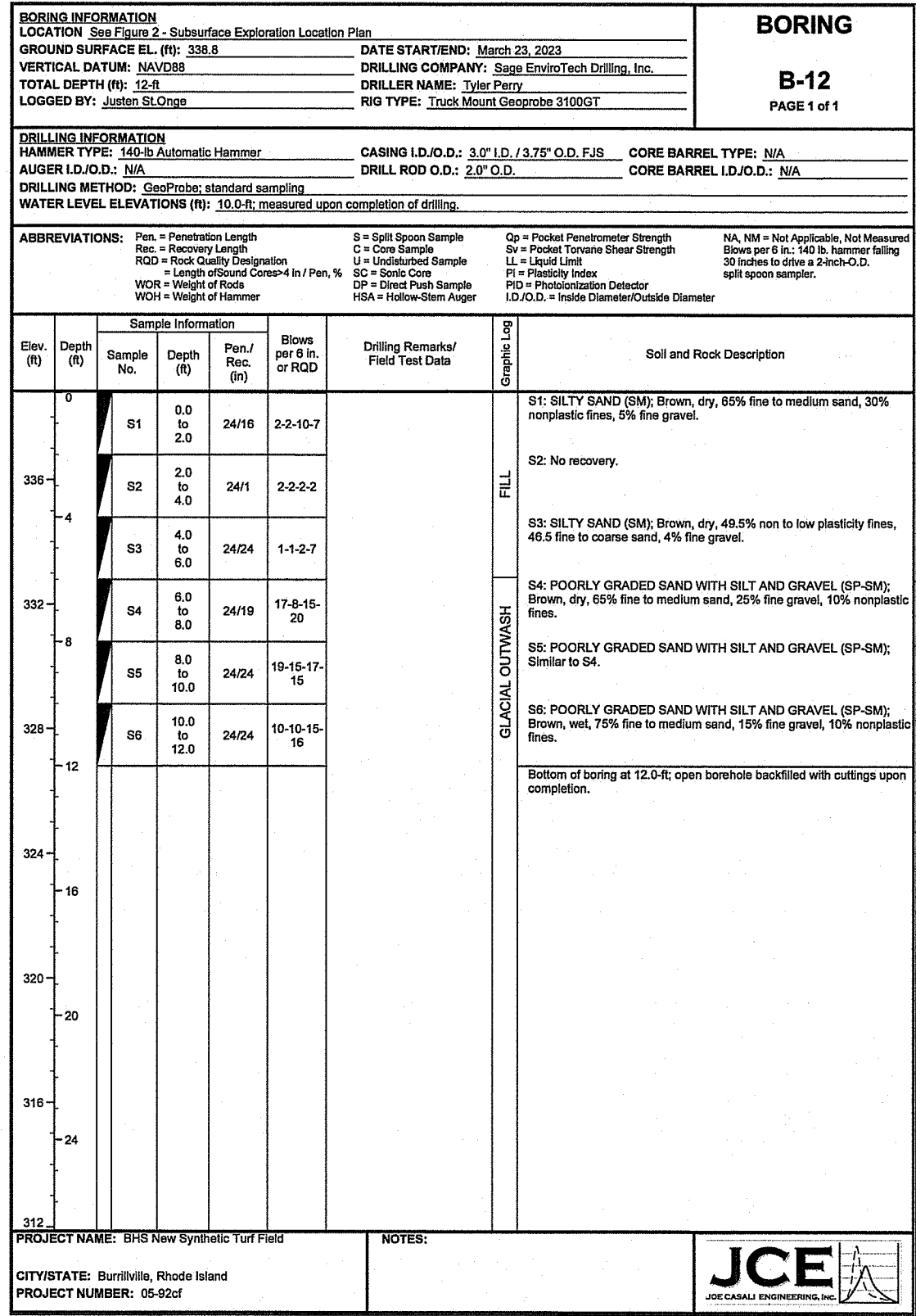
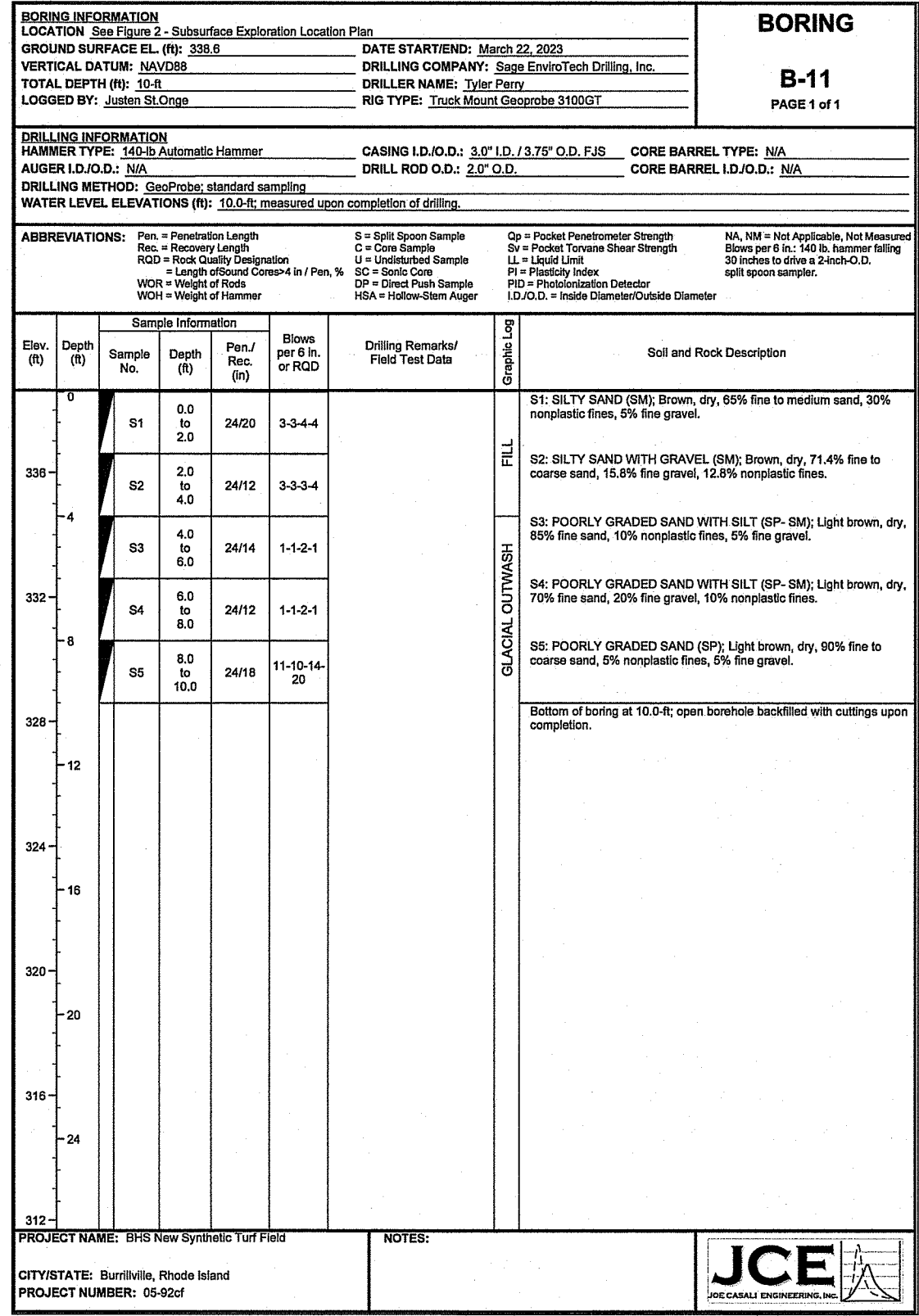
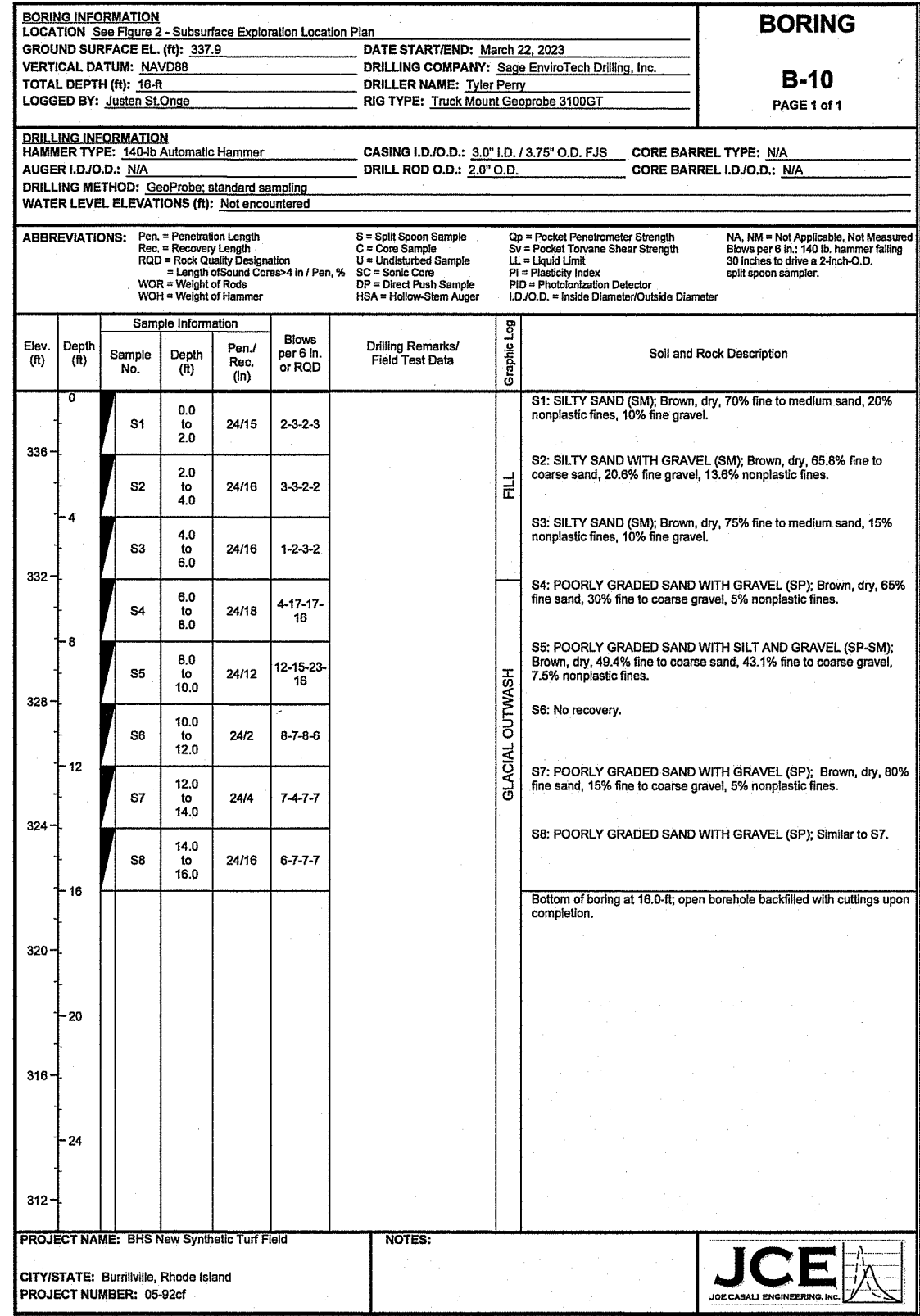
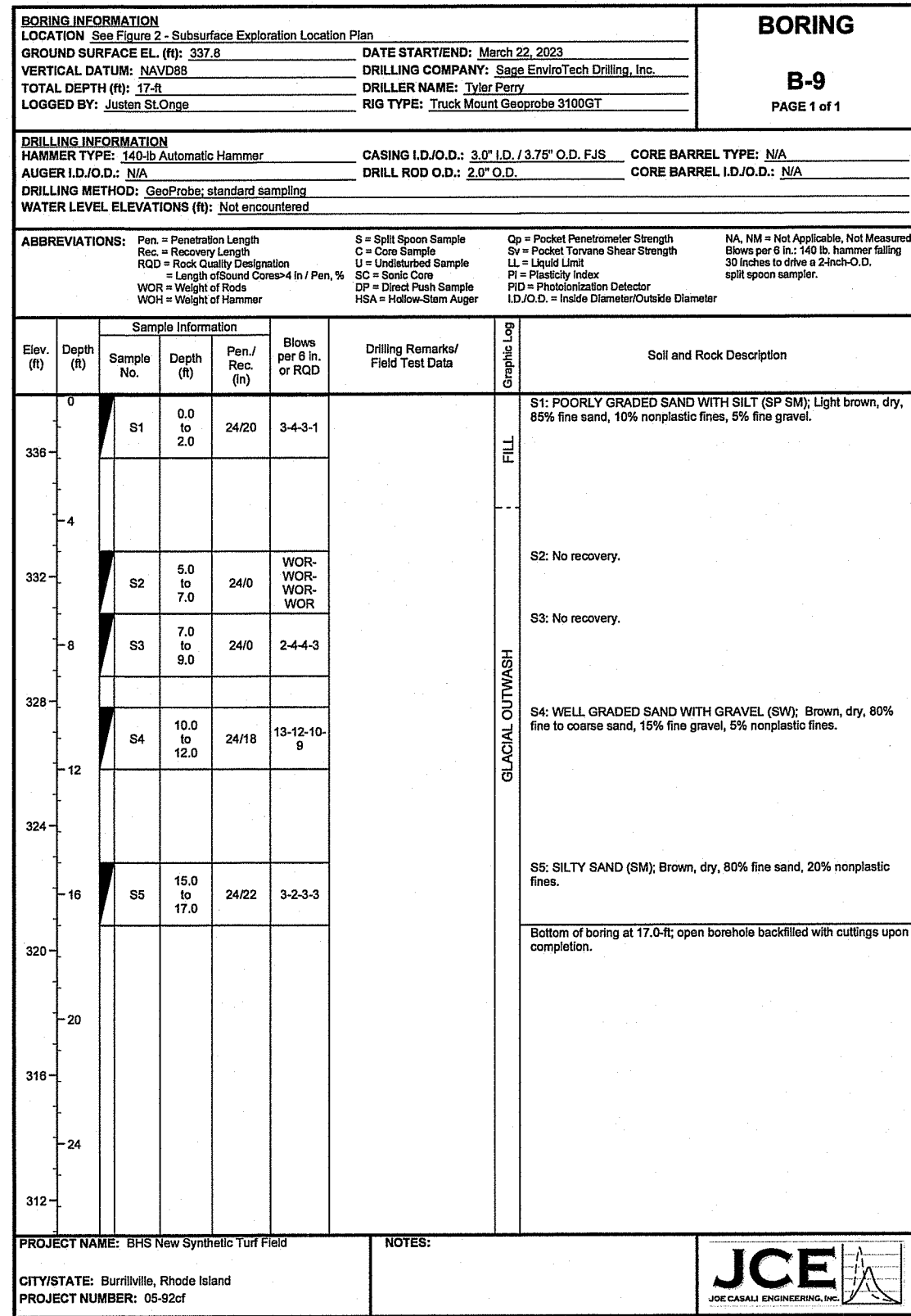
DESIGNED BY: DRD  
 DRAWN BY: SD/SEP  
 CHECKED BY: JAC  
 DATE: NOV. 2023  
 PROJECT NO: 05-92c

PRELIMINARY, NOT FOR CONSTRUCTION

**FIELD PROFILE**

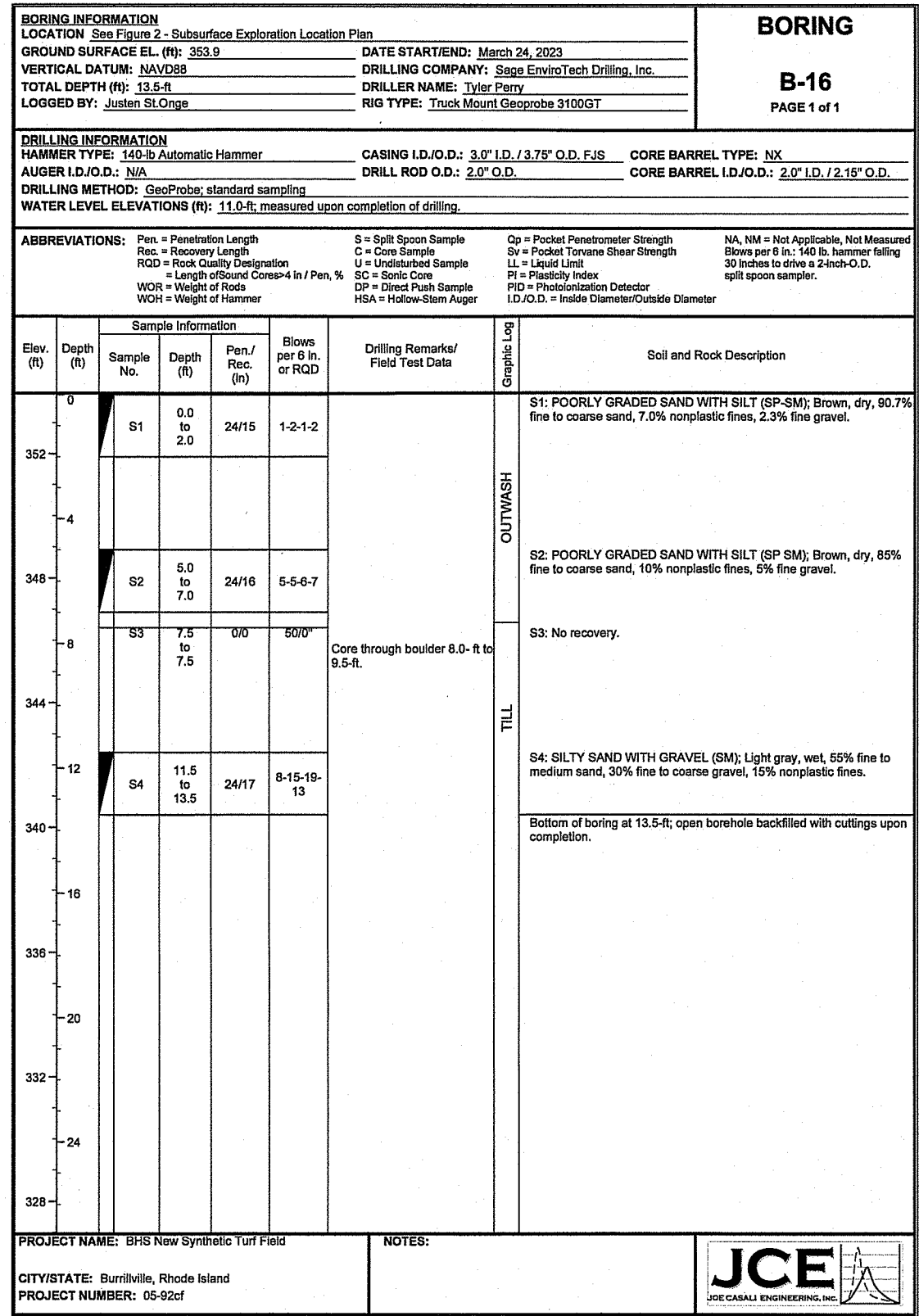
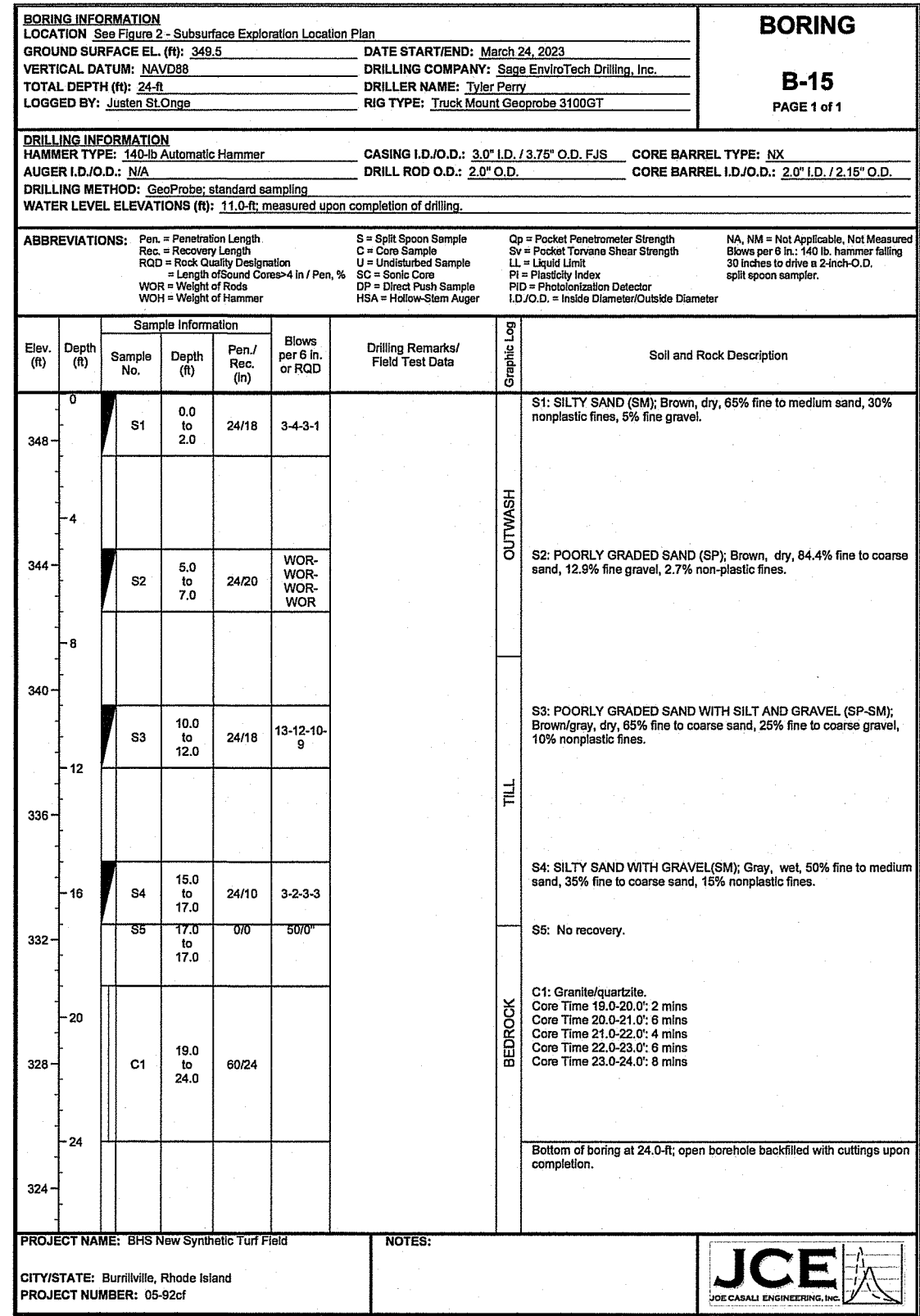
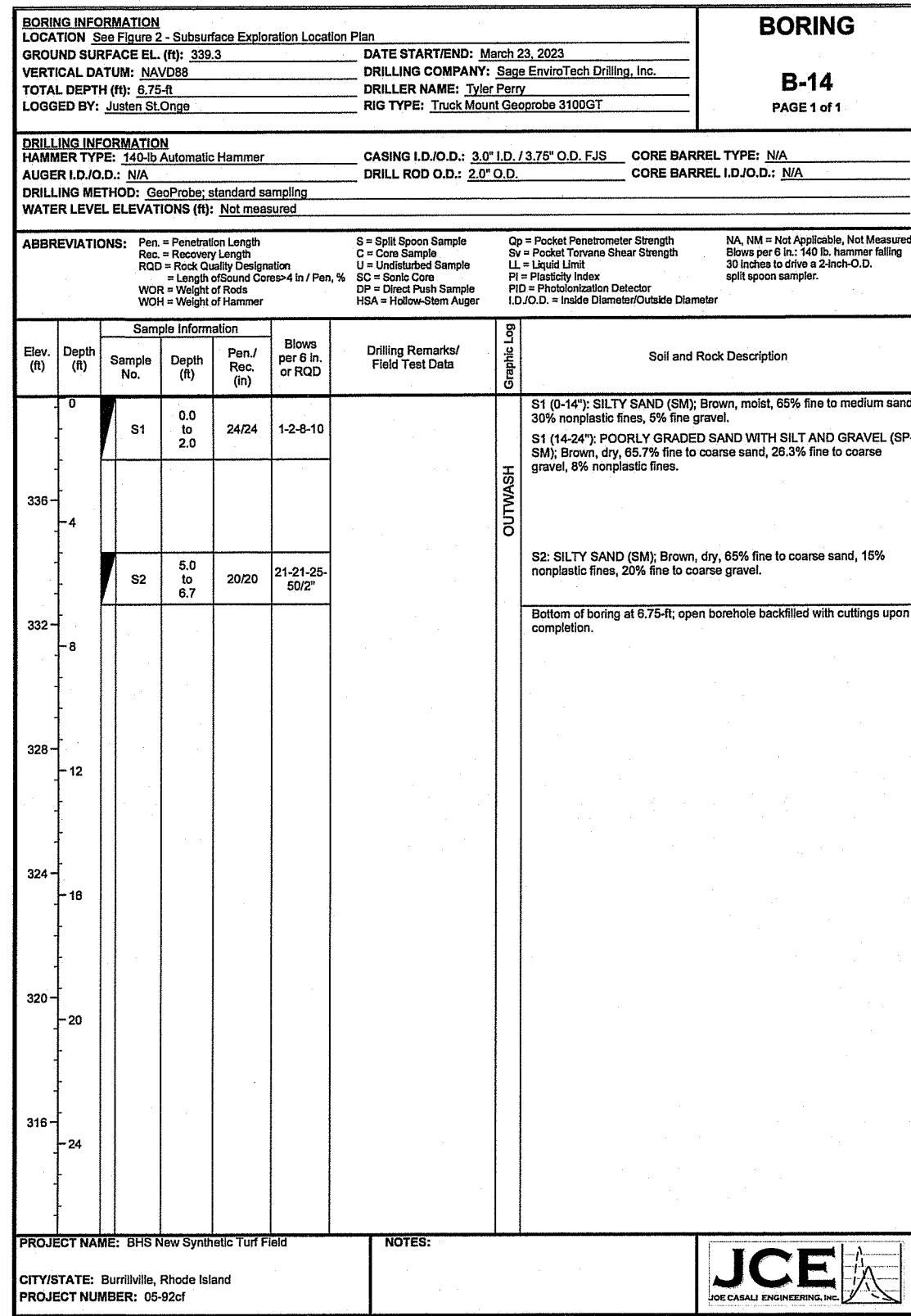
**SHEET 13 OF 19**





JOE CASALI ENGINEERING, INC.  
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION  
 300 POST ROAD, WARWICK, RI 02886  
 (401) 944-1300 (401) 944-1313 FAX WWW.JCECALL.COM

JOSEPH A. CASALI  
 NO. 7250  
 REGISTERED PROFESSIONAL ENGINEER  
 02/14/2024



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI Environmental Management  
 FEB 26 2024  
 Office of Water Resources

**BURRILLVILLE HIGH SCHOOL**  
**SYNTHETIC TURF ATHLETICS FIELD**  
 425 EAST AVENUE  
 BURRILLVILLE, RHODE ISLAND  
 AP 144, LOT 26 & AP 161, LOT 5

REVISIONS:  
 NO. DATE DESCRIPTION  
 1 2/26/24 RIDEM RTC

DESIGNED BY: DRD  
 DRAWN BY: SD/SEP  
 CHECKED BY: JAC  
 DATE: NOV. 2023  
 PROJECT NO.: 05-92zf

PRELIMINARY, NOT FOR CONSTRUCTION

**SUBSURFACE EXPLORATION LOGS II**

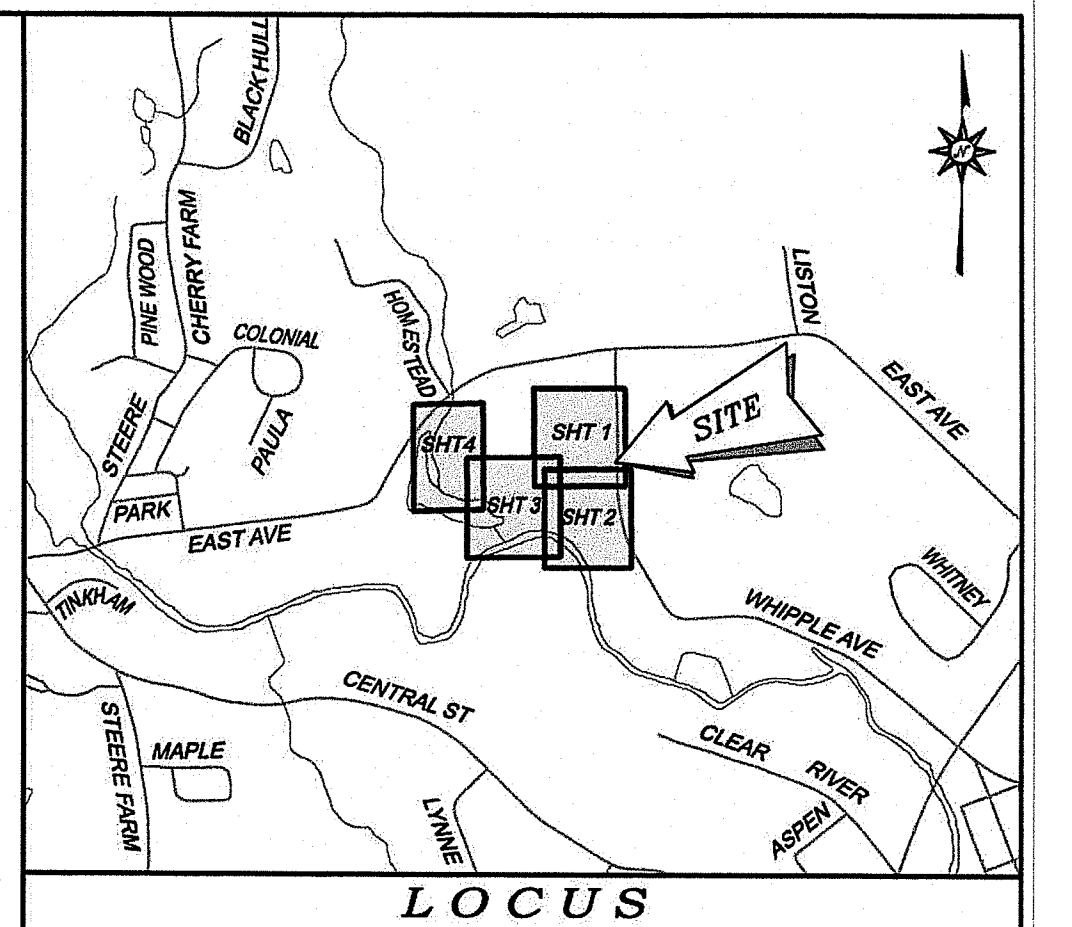
SHEET 15 OF 19

03-05-92 Town of Burrillville 05-92zf High School Field (ACAD) Burrillville High School (RIDEA-RTC).dwg Feb. 26, 2024 8:08am

**LEGEND & ABBREVIATIONS**

- NF - NOW OR FORMERLY
- A.P. - ASSESSORS PLAT
- S.F. - SQUARE FEET
- AC. - ACRES
- ± - PLUS OR MINUS
- STY - STORY
- WF - WOOD FRAMED
- SHP - STATE HIGHWAY PLAT
- RET. - RETAINING WALL
- PED. - PEDESTRIAN
- (FND.) - FOUND
- RHB - RI HIGHWAY BOUND
- FK NAIL - FLARED END
- FE - REINFORCED CONCRETE PIPE
- CLF - CHAIN LINK FENCE
- INV. - INVERT
- x 10.80 - EXISTING SPOT GRADE
- x 10.83 - NEW SPOT GRADE

- PROPERTY LINE
- ZONING SETBACK LINE
- EXISTING CONTOUR
- NEW CONTOUR
- STONE WALL
- FENCE
- SEWER LINE
- DRAIN LINE
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- SANITARY SEWER MANHOLE
- CATCH BASIN
- STORM DRAIN MANHOLE
- WATER GATE
- GAS VALVE
- ELECTRIC MANHOLE
- GRANITE BOUND
- DRILL HOLE
- IRON PIPE



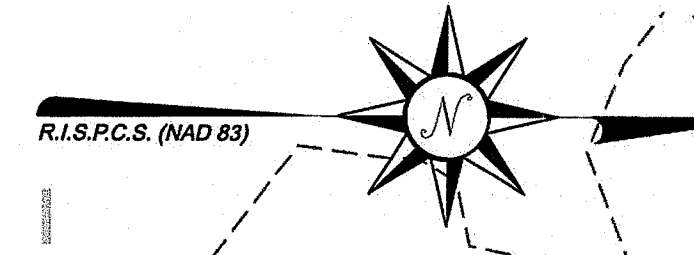
**NOTES / REFERENCES**

1. REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD:
  - A.) PLAN ENTITLED "DIVISION OF LAND FOR MARILYN M. RIDER, BURRILLVILLE, R.I., PREPARED BY: BIBEAL AND FLORENTZ ENGINEERING CO., SCALE: 1" = 20', DATED: JANUARY, 1980."
  - B.) PLAN ENTITLED "PROPOSED ATHLETIC FIELDS PREPARED FOR: TOWN OF BURRILLVILLE, MAP 144, LOT 26 & 31, WHIPPLE AVENUE AND EAST AVENUE. SITE UTILITIES PLAN, PREPARED BY: CME ASSOCIATES, INC., SCALE: JAN. 26, 2005, PROJECT No. 0403, SCALE: 1" = 40'."
2. REFERENCE IS MADE TO THE FOLLOWING TOWN OF BURRILLVILLE LAND EVIDENCE RECORDS REGARDING RECORDED TITLE TO THE PREMISES SURVEYED:
  - A.) A.P. 144, LOT 26 - TOWN OF BURRILLVILLE - VOLUME 66, PAGE 118
  - B.) A.P. 144, LOT 31 - TOWN OF BURRILLVILLE - VOLUME 71, PAGE 78
3. THESE PREMISES MAY BE SUBJECT TO THE FOLLOWING EASEMENTS, RIGHTS OF WAY OR AGREEMENTS OF RECORD:
  - A.) NONE FOUND RECORDED.
4. THESE PREMISES ARE SITUATED IN AN "R-20" ZONE (SUBURBAN RESIDENTIAL DISTRICT).
 

**DIMENSIONAL REQUIREMENTS**

  - MIN. LOT AREA = 20,000 SQ.FT.
  - MIN. FRONTAGE / LOT WIDTH = 125 FT.
  - MIN. S/B FRONT YARD = 30 FT.
  - MIN. S/B REAR YARD = 30 FT.
  - MIN. S/B SIDE YARD = 10 FT.
  - MAX. BUILDING COVERAGE (%) = 25 %
  - MAX. STRUCTURE HEIGHT = 35 FT.

NOTE - ZONING INFORMATION IS FROM CURRENT ZONING AND MAY NOT REFLECT THE CONDITIONS AT THE TIME OF CONSTRUCTION OR ANY VARIANCES GRANTED.
5. PORTIONS OF THESE PREMISES ARE SITUATED IN A ZONE "AE, ZONE "X" (AREAS OF 0.2% ANNUAL CHANCE FLOOD & ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DESIGNATED ON THE "ANNUAL FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP, PROVIDENCE COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL 135 OF 461 TOWN OF BURRILLVILLE, MAP NUMBER 44007C0135G, EFFECTIVE DATE: MAY 01, 2009, FEDERAL EST. NO. 14030."
6. 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 GUARANTEE THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (90 DAYS CONTACT US SALES 72 HOURS PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-888-SAFE (AND/OR ALL LOCAL UTILITY COMPANIES).)
7. THE HORIZONTAL DATUM FOR THIS PROJECT IS R.I.S.P.C.S. (NAD 83) AND THE VERTICAL DATUM FOR THIS PROJECT IS FRESHWATER WETLANDS PROGRAM. THIS PROJECT DATUMS WERE ESTABLISHED FROM REFERENCE STATIONS AND GNSS CORRECTIONS RECEIVED FROM THE LEICA SMARTNET NORTH AMERICA RTK NETWORK VIA CARLSON BRAG GNSS ANTENNAS / RECEIVERS.



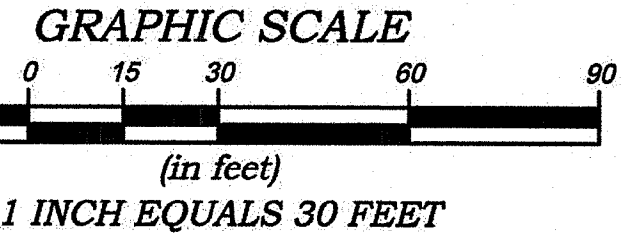
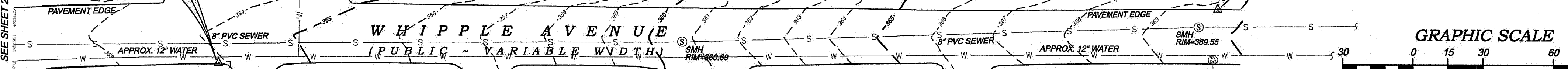
SEE SHEET 2

**BENCHMARK**  
MAG NAIL IN UP #466-14  
ELEV. = 353.39' (NAVD 88)

**CONTROL POINT**  
MAG NAIL (SET)  
N=322026.61  
E=284567.77  
ELEV. = 355.44 (NAVD 88)

**CONTROL POINT**  
MAG NAIL (SET)  
N=322031.69  
E=284784.39  
ELEV. = 353.26 (NAVD 88)

**CONTROL POINT**  
MAG NAIL (SET)  
N=322459.34  
E=284758.61  
ELEV. = 369.64 (NAVD 88)



**COPYRIGHT**  
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 THE DIRECTORS.

RI Environmental Management  
Office of Water Resources  
FEB 26 2024

**BRADFORD J. TRAVERS**  
No. 2521  
PROFESSIONAL LAND SURVEYOR

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

N/F  
A.P. 144, LOT 29  
CURTIS W. RIDER  
MAUREEN J. RIDER  
& KERRY E. COFFEY  
VOLUME 1087, PAGE 300

N/F  
A.P. 144, LOT 28  
SANTO OLIVO  
VOL. 1246, PG. 71

**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 (PARTIAL BOUNDARY SURVEY AS SHOWN)

OTHER TYPE OF SURVEY: TOPOGRAPHIC SURVEY  
DATA ACCUMULATION: III (PARTIAL TOPO AS SHOWN)

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: EXISTING CONDITIONS PLAN & TOPOGRAPHIC SURVEY TO ASSIST WITH THE FUTURE DEVELOPMENT OF THE SUBJECT PROPERTY.

BY: *Bradford J. Travers* 2521 04/12/2023  
BRADFORD J. TRAVERS, P.L.S. REG. NO. 2521  
WATERMAN ENGINEERING COMPANY (COA No. L3.0004483) DATE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 11 2024 FILE # 23-2521-GRANITE BOUND (FND. & FIELD)

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

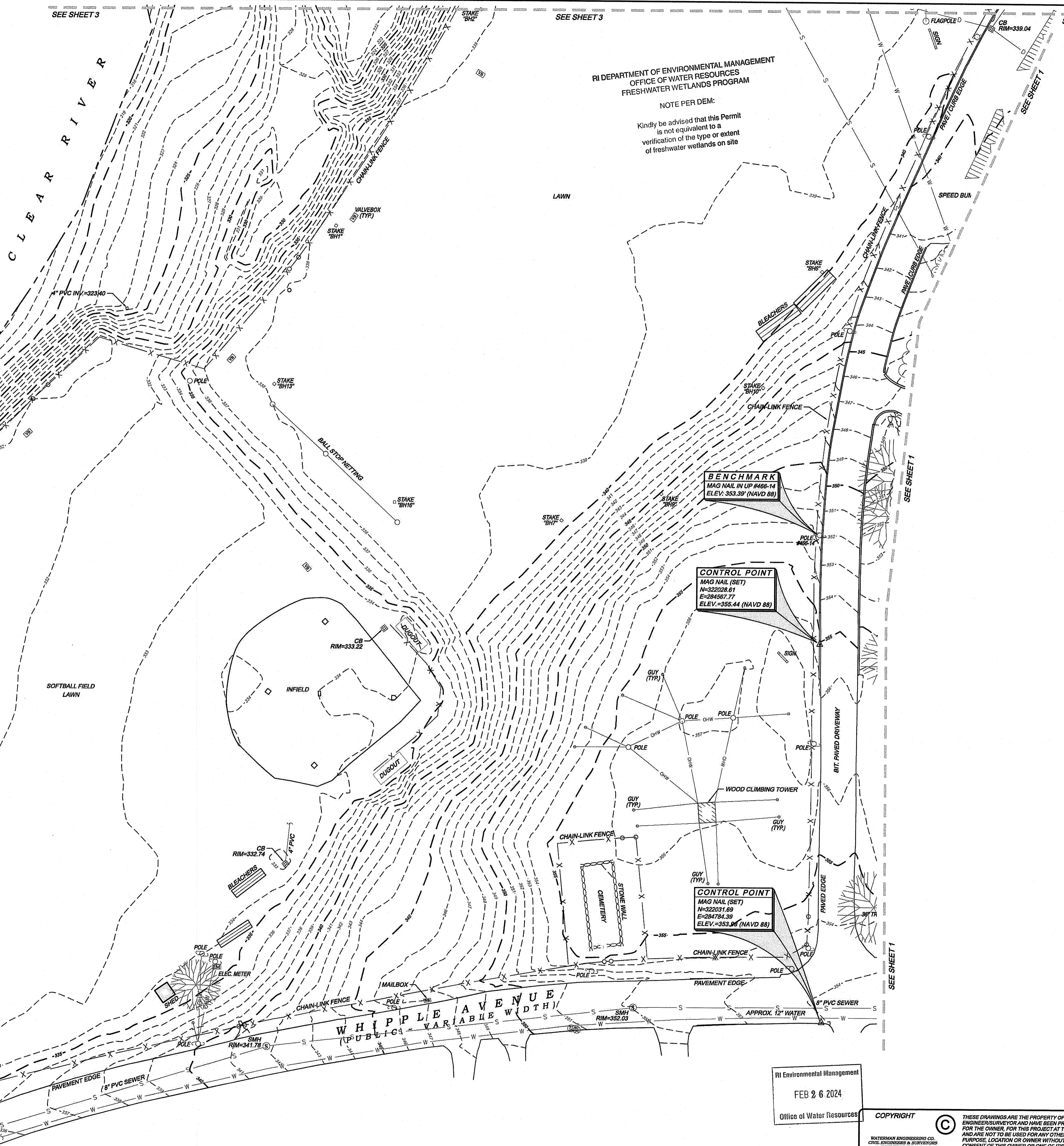
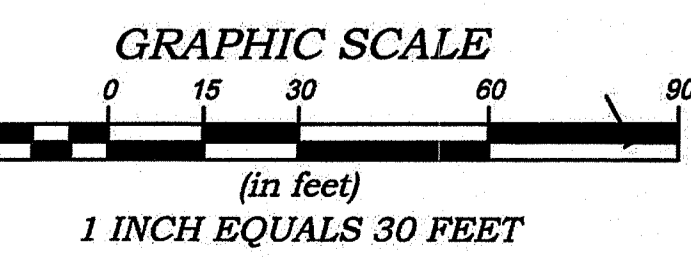
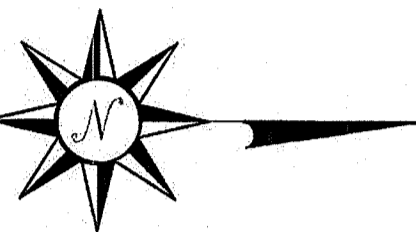
*Nancy L. Freeman*

NO.	DATE	REVISION	CHECKED BY
1	04/09/23	EXPANDED AREA OF TOPOGRAPHY	BJT
EXISTING CONDITIONS & TOPOGRAPHIC SURVEY PLAN BURRILLVILLE HIGH SCHOOL - 425 EAST AVE. BURRILLVILLE, RHODE ISLAND			PROJECT NO. 22-062 SCALE: 1" = 30' DATE: 11/02/2022 DRAWN BY: EBP CHECKED BY: BJT FILENAME: 22-062_SU2 1 of 4 SHETS DRAWING # SU2
JOE CASALI ENGINEERING INC. WARWICK, RHODE ISLAND 02888			

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

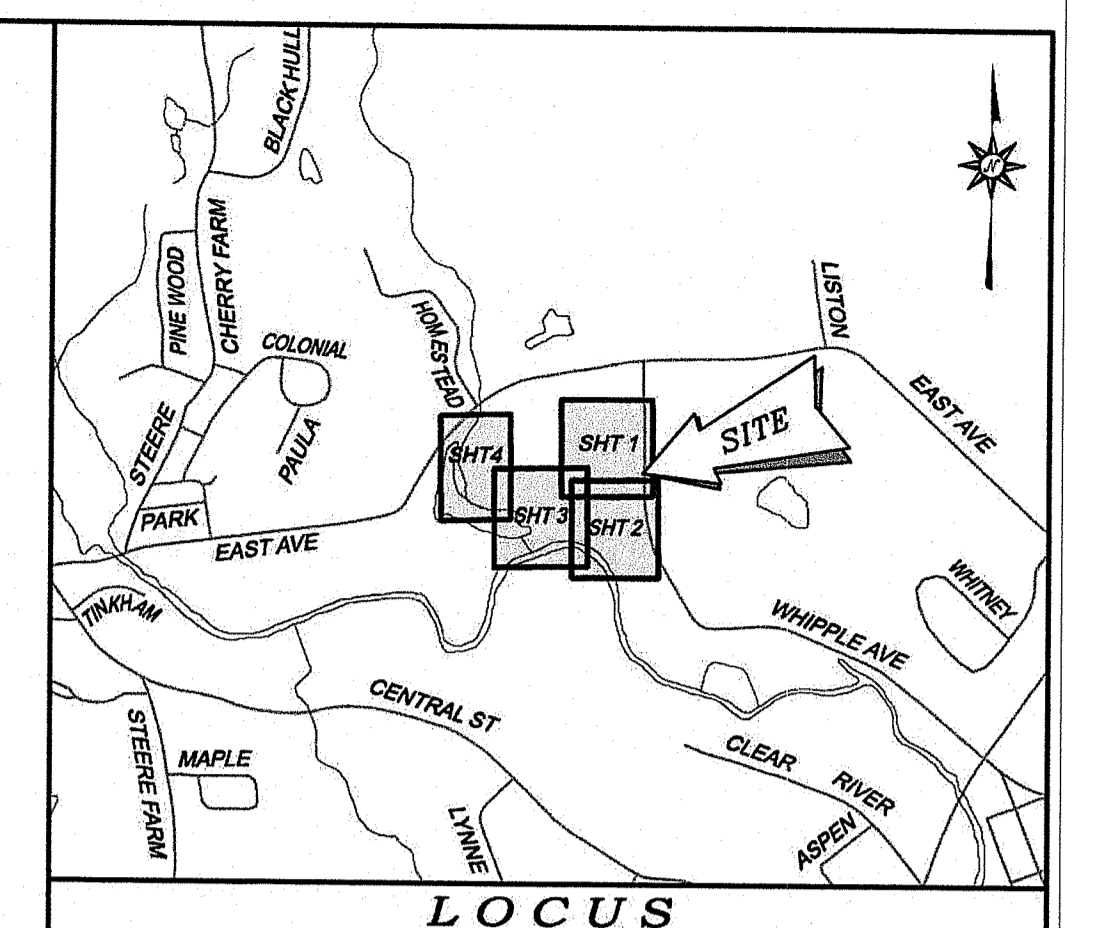
**LEGEND & ABBREVIATIONS**

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- S.F. - SQUARE FEET
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- SHIP - STATE HIGHWAY PLAT
- RET. - RETAINING WALL
- PE. - PEDESTRIAN
- (FND.) - FOUND
- RHB - RI HIGHWAY BOUND
- PK NAIL - MASONRY NAIL
- FE. - FLARED END
- RCP - REINFORCED CONCRETE PIPE
- CLF - CHAIN LINK FENCE
- INV. - INVERT
- x 10.80 - EXISTING SPOT GRADE
- x 10.80 - NEW SPOT GRADE



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



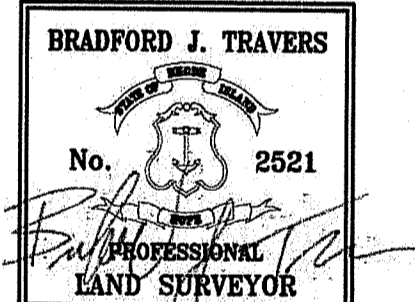
**NOTES / REFERENCES**

1. REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD:
  - A.) PLAN ENTITLED "DIVISION OF LAND FOR MARILYN M. RIDER, BURRILLVILLE, R.I., PREPARED BY: BIBEAULT AND FLORENTZ ENGINEERING CO., SCALE: 1" = 20', DATED: JANUARY, 1980.
  - B.) PLAN ENTITLED "PROPOSED ATHLETIC FIELDS PREPARED FOR: TOWN OF BURRILLVILLE, MAP 144, LOT 23, 25 & 31, WHIPPLE AVENUE AND EAST AVENUE, SITE UTILITIES PLAN, PREPARED BY: ONE ASSOCIATES, INC., SCALE: JAN 28, 2009, PROJECT NO. 04-03, SCALE: 1" = 40'.
2. PORTIONS OF THESE PREMISES ARE SITUATED IN A ZONE 4E, ZONE X (AREAS OF 0.2% ANNUAL CHANCE FLOOD & ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 1% ANNUAL CHANCE FLOOD) AREAS DESIGNATED ON THE NATIONAL FLOOD INSURANCE PROGRAM FIRM FLOOD INSURANCE RATE MAP PROVIDENCE COUNTY, RHODE ISLAND (ALL SURVEYED) PANEL 132 OF 451 TOWN OF BURRILLVILLE, MAP NUMBER 4407031353, EFFECTIVE DATE: MARCH 2, 2008, FEDERAL EMERGENCY MANAGEMENT AGENCY."
3. ANY UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING RECORDS. 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. THE LOCATION IS AS ACCURATE AS POSSIBLE FROM ALL AVAILABLE INFORMATION. PLEASE CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-686-SAFE AND/OR LOCAL UTILITY COMPANIES.
4. THE HORIZONTAL DATUM FOR THIS PROJECT IS R.I.S.P.C.S. (NAD 83) AND THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 88. THE PROJECT DATUMS WERE ESTABLISHED FROM REFERENCE STATIONS AND GNSS CORRECTIONS RECEIVED FROM THE LEICA SMARTNET NORTH AMERICA RTK NETWORK VIA CARLSON BRX8 GNSS ANTENNAS / RECEIVERS.
5. WETLAND DELINEATION BY NATURAL RESOURCE SERVICES, INC., P.O. BOX 311, HARRISVILLE, R.I. ON SEPTEMBER 29, 2022. FLAGS WERE FIELD LOCATED BY WATERMAN ENGINEERING COMPANY ON OCTOBER 21, 2022.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: **APR 11 2024** FILE #: **23-0256**  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Nancy L. Freeman*



\*\* 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 28, 2018, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY  
MEASUREMENT / ACCURACY SPECIFICATION: I (PARTIAL BOUNDARY SURVEY AS SHOWN)

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

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
EXISTING CONDITIONS PLAN & TOPOGRAPHIC SURVEY TO ASSIST WITH THE FUTURE DEVELOPMENT OF THE SUBJECT PROPERTY.

BY: *Bradford J. Travers* 2521 04/12/2023  
BRADFORD J. TRAVERS, P.L.S. REG. NO. 2521 DATE  
WATERMAN ENGINEERING COMPANY (COA NO. L.S.0004483)

RI Environmental Management  
FEB 26 2024

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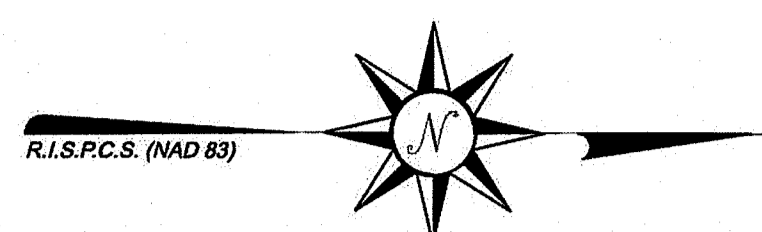
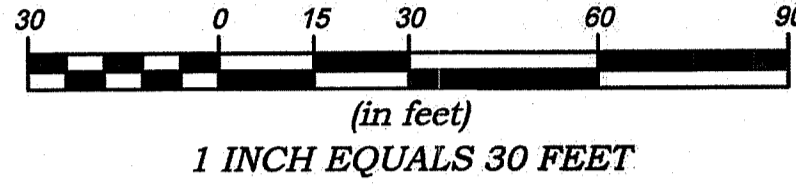
THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER/SURVEYOR AND HAVE BEEN PREPARED FOR THE OWNER. FOR THIS PROJECT AT THIS SITE AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE, LOCATION OR OWNER WITHOUT WRITTEN CONSENT OF THIS OWNER OR ONE OF ITS DIRECTORS.

1	04/05/23	EXPANDED AREA OF TOPOGRAPHY	BJT
NO.	DATE	REVISION	CHECKED BY
EXISTING CONDITIONS & TOPOGRAPHIC SURVEY PLAN BURRILLVILLE HIGH SCHOOL - 425 EAST AVE. BURRILLVILLE, RHODE ISLAND			PROJECT NO. 22-062 SCALE: 1" = 30' DATE: 11/02/2022 DRAWN BY: EBP CHECKED BY: BJT FILENAME: 22-062_SU2 2 of 4 SHTS DRAWING #: SU2
JOE CASALI ENGINEERING INC. 300 POST ROAD WARWICK, RHODE ISLAND 02888			

**LEGEND & ABBREVIATIONS**

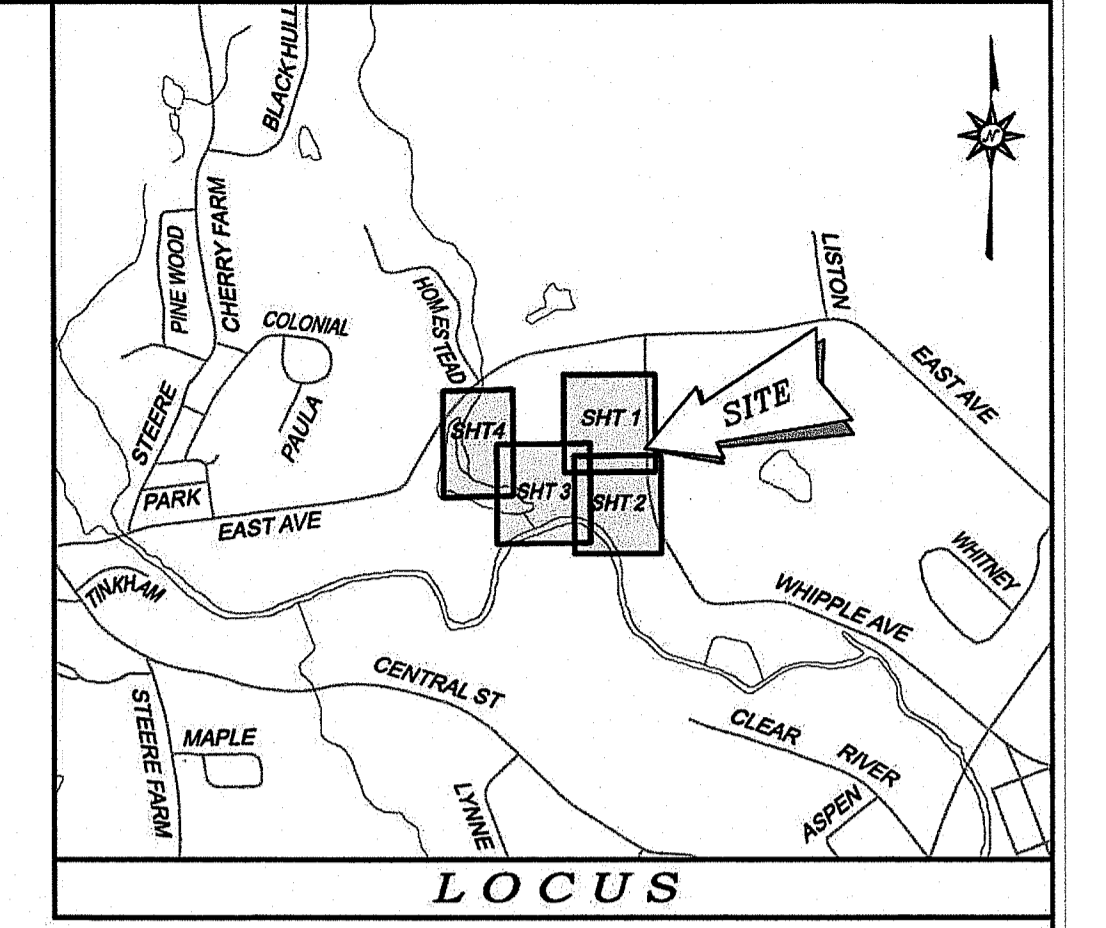
- |         |                            |         |                          |
|---------|----------------------------|---------|--------------------------|
| NF      | - NOW OR FORMERLY          | ---     | - PROPERTY LINE          |
| A.P.    | - ASSESSORS PLAT           | ---     | - ZONING SETBACK 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         | SMH     | - SANITARY SEWER MANHOLE |
| PK NAIL | - MASONRY NAIL             | CB      | - CATCH BASIN            |
| FE      | - FLARED END               | STORM   | - STORM DRAIN MANHOLE    |
| RCP     | - REINFORCED CONCRETE PIPE | WATER   | - WATER GATE             |
| CLF     | - CHAIN LINK FENCE         | VALVE   | - GAS VALVE              |
| INV.    | - INVERT                   | MANHOLE | - ELECTRIC MANHOLE       |
| x 10.80 | - EXISTING SPOT GRADE      | GRANITE | - GRANITE BOUND          |
| x 10.80 | - NEW SPOT GRADE           | DRILL   | - DRILL HOLE             |
|         |                            | IRON    | - IRON PIPE              |

**GRAPHIC SCALE**



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

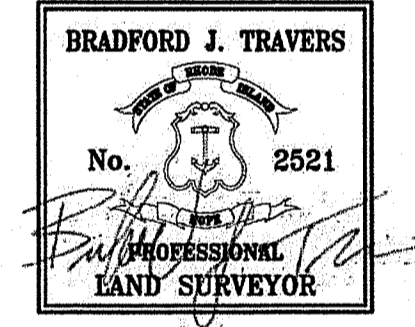
NOTE PER DEM:  
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site



**NOTES / REFERENCES**

- REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD:
  - PLAN ENTITLED "DIVISION OF LAND FOR MARILYN M. RIDER, BURRILLVILLE, R.I., PREPARED BY: BISEULT AND FLORENZ ENGINEERING CO., SCALE: 1" = 20', DATED: JANUARY, 1980."
  - PLAN ENTITLED "PROPOSED ATHLETIC FIELDS PREPARED FOR: TOWN OF BURRILLVILLE, MAP 144, LOT 23, 25 & 31, WHIPPLE AVENUE AND EAST AVENUE, SITE UTILITIES PLAN, PREPARED BY: CME ASSOCIATES, INC., SCALE: JAN. 28, 2005, PROJECT No. 04-03, SCALE: 1" = 40'."
- PORTIONS OF THESE PREMISES ARE SITUATED IN A ZONE "X" (AREAS OF 0.2% ANNUAL CHANCE FLOOD & ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN AS DESIGNATED ON THE "NATIONAL FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP PROVIDENCE COUNTY, RHODE ISLAND, ALL JURISDICTIONS) PANEL 136 OF 161 TOWN OF BURRILLVILLE, MAP NUMBER 4400700136G, 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 ON THIS PLAN ARE ACCURATE. 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 THE UTILITY COMPANIES 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 R.I.S.P.C.S. (MAD 83) AND THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 83. THE PROJECT DATUMS WERE ESTABLISHED FROM REFERENCE STATIONS AND GNSS CORRECTIONS RECEIVED FROM THE LEICA SMARTNET NORTH AMERICA RTK NETWORK VIA CARLSON BRUK GNS ANTENNAS / RECEIVERS.
- WETLAND DELINEATION BY NATURAL RESOURCE SERVICES, INC., P.O. BOX 311, HARRISVILLE, R.I. ON SEPTEMBER 28, 2022. FLAGS WERE FIELD LOCATED BY WATERMAN ENGINEERING COMPANY ON OCTOBER 21, 2022.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: **APR 11 2024** FILE #: **23-0256**  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*



\*\* 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 28, 2016, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY  
MEASUREMENT / ACCURACY SPECIFICATION: 1 (PARTIAL BOUNDARY SURVEY AS SHOWN)

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

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
EXISTING CONDITIONS PLAN & TOPOGRAPHIC SURVEY TO ASSIST WITH THE FUTURE DEVELOPMENT OF THE SUBJECT PROPERTY.

BY: *Bradford J. Travers* 2521 04/12/2023  
BRADFORD J. TRAVERS, P.L.S. REG. NO. DATE  
WATERMAN ENGINEERING COMPANY (COA No. L.S.0004483)

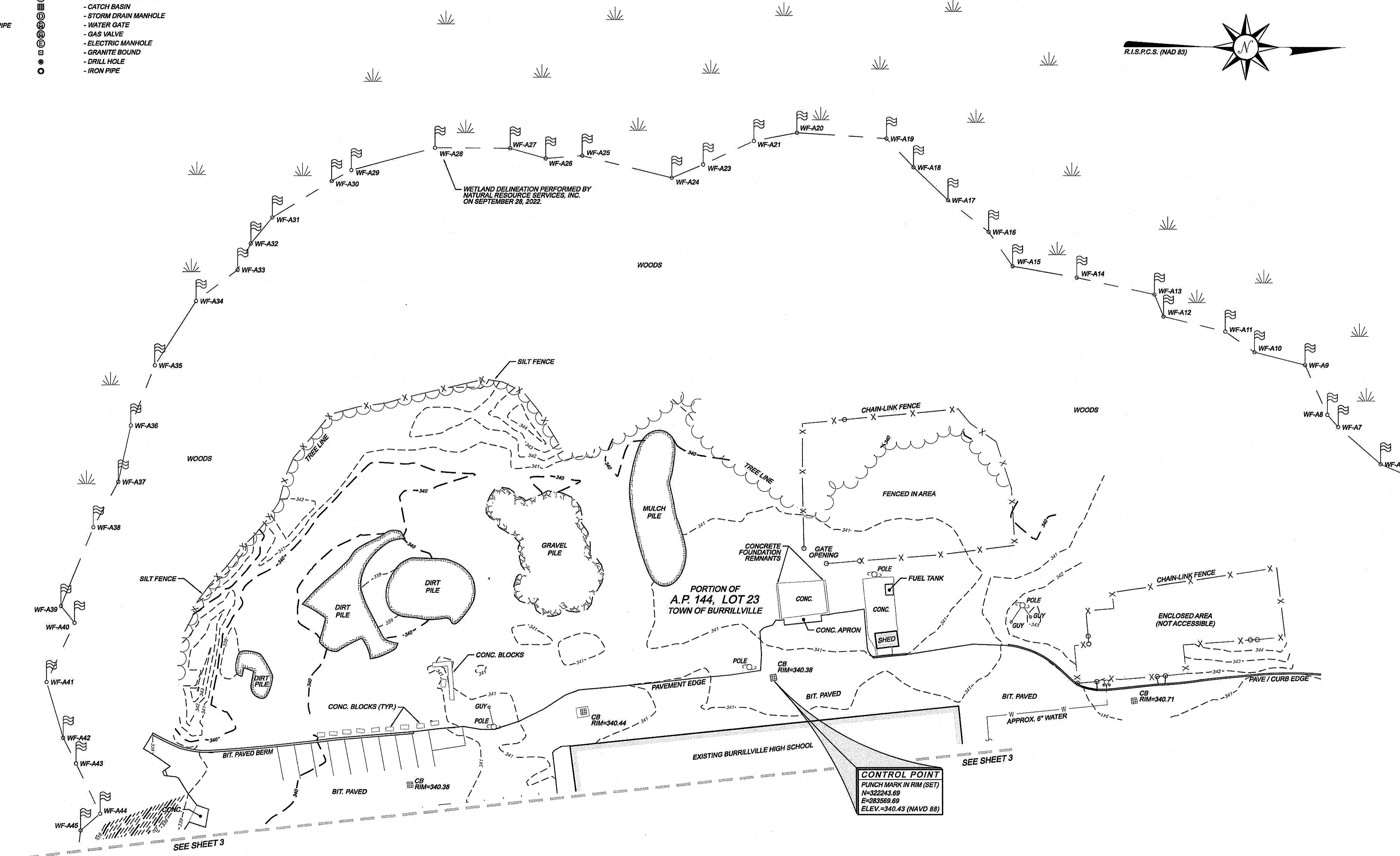
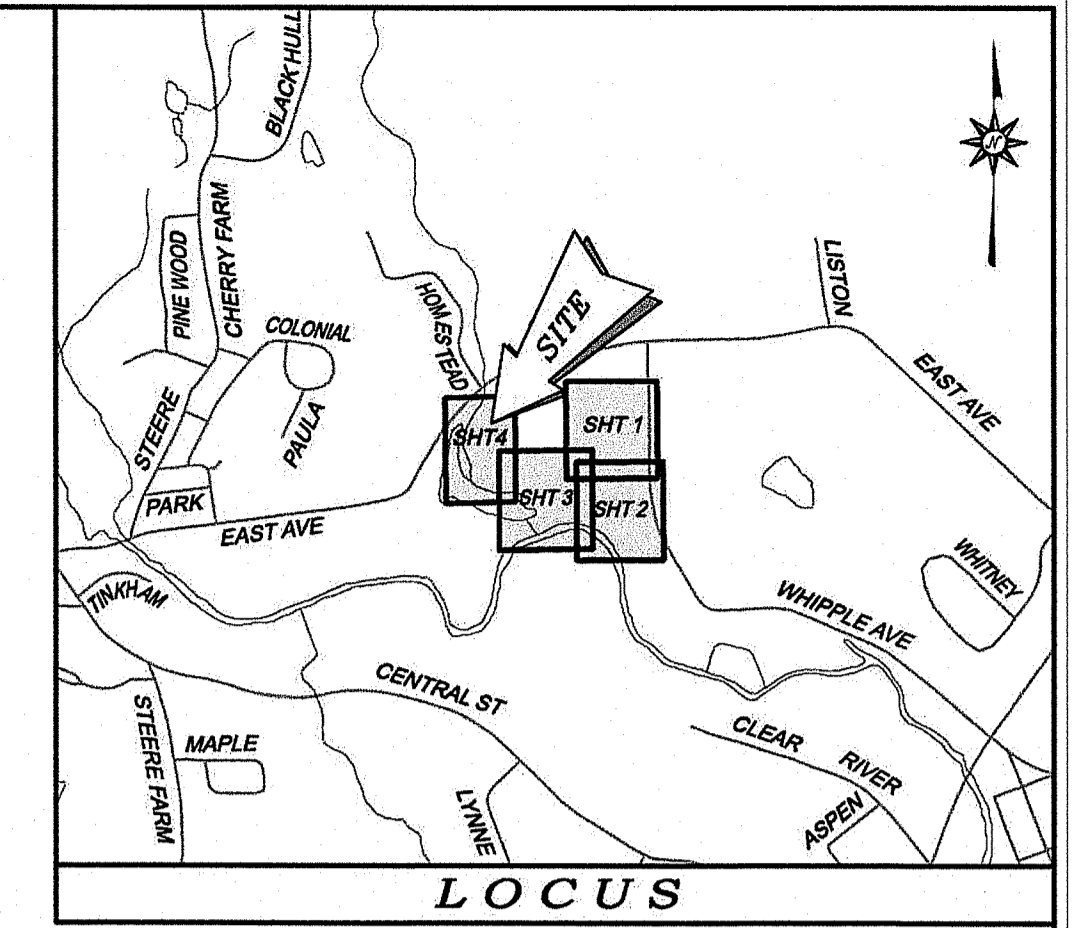
NO.	DATE	REVISION	CHECKED BY
1	04/05/23	EXPANDED AREA OF TOPOGRAPHY	BJT
EXISTING CONDITIONS & TOPOGRAPHIC SURVEY PLAN BURRILLVILLE HIGH SCHOOL - 425 EAST AVE. BURRILLVILLE, RHODE ISLAND			PROJECT NO. 22-062 SCALE: 1" = 30' DATE: 11/02/2022 DRAWN BY: EBP CHECKED BY: BJT FILENAME: 22-062_SU2 3 of 4 SHTS DRAWING #: SU2
JOE CASALI ENGINEERING INC. 300 POST ROAD WARWICK, RHODE ISLAND 02888			

RI Environmental Management  
**FEB 6 2024**  
Office of Water Resources

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**LEGEND & ABBREVIATIONS**

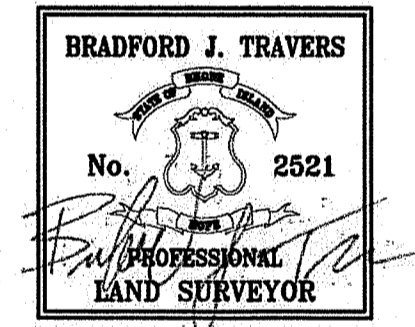
NF	- NOW OR FORMERLY	---	- PROPERTY LINE
A.P.	- ASSESSORS PLAT	---	- ZONING SETBACK LINE
S.F.	- SQUARE FEET	---	- EXISTING CONTOUR
AC.	- ACRES	---	- NEW CONTOUR
±	- PLUS OR MINUS	---	- STONE WALL
STY	- STORY	X	- FENCE
WF	- WOOD FRAMED	S	- SEWER LINE
SHP	- STATE HIGHWAY PLAT	D	- DRAIN LINE
RET.	- RETAINING WALL	W	- WATER LINE
PED.	- PEDESTRIAN	G	- GAS LINE
(FND.)	- FOUND	E	- ELECTRIC LINE
RHB	- RI HIGHWAY BOUND	⊕	- SANITARY SEWER MANHOLE
PK 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 10.89	- EXISTING SPOT GRADE	⊕	- GRANITE BOUND
⊕	- NEW SPOT GRADE	⊕	- DRILL HOLE
		⊕	- IRON PIPE



**NOTES / REFERENCES**

- REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD:
  - PLAN ENTITLED "DIVISION OF LAND FOR MARILYN M. RIDER, BURRILLVILLE, R.I., PREPARED BY: BIBEALTY AND FLORENTZ ENGINEERING CO., SCALE: 1" = 20', DATED: JANUARY, 1980."
  - PLAN ENTITLED "PROPOSED ATHLETIC FIELDS PREPARED FOR TOWN OF BURRILLVILLE, MAP 144, LOT 23, 24 & 31, WHIPPLE AVENUE AND EAST AVENUE, SITE UTILITIES PLAN, PREPARED BY: CME ASSOCIATES, INC., SCALE: JAN. 28, 2005, PROJECT No. 04-03, SCALE: 1" = 40'."
- PORTIONS OF THESE PREMISES ARE SITUATED IN A ZONE 'AE', ZONE 'X' (AREAS OF 0.2% ANNUAL CHANCE FLOOD) & ZONE 'X' (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAN) AS DESIGNATED ON THE NATIONAL FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP, PROVIDENCE COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL 135 OF 461 TOWN OF BURRILLVILLE, MAP NUMBER 44007001350, EFFECTIVE DATE: MARCH 2, 2009, 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 DISSEE 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 R.I.S.P.C.S. (NAD 83) AND THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 83. THE PROJECT DATUMS WERE ESTABLISHED FROM REFERENCE STATIONS AND GNSS CORRECTIONS RECEIVED FROM THE LEICA SMARTNET NORTH AMERICA RTK NETWORK VIA CARLSON BR98 GNSS ANTENNAS / RECEIVERS.
- WETLAND DELINEATION BY NATURAL RESOURCE SERVICES, INC., P.O. BOX 311, HARRISVILLE, R.I. ON SEPTEMBER 28, 2022. FLAGS WERE FIELD LOCATED BY WATERMAN ENGINEERING COMPANY ON OCTOBER 21, 2022.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: APR 11 2024 FILE #: 23-0256  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*



\*\* 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 455-RICR-00-01.9 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: 1 (PARTIAL BOUNDARY SURVEY AS SHOWN)  
 OTHER TYPE OF SURVEY: TOPOGRAPHIC SURVEY III T-1 (PARTIAL AS SHOWN)  
 THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
 EXISTING CONDITIONS PLAN & TOPOGRAPHIC SURVEY TO ASSIST WITH THE FUTURE DEVELOPMENT OF THE SUBJECT PROPERTY.

By: *Bradford J. Travers* 2521 04/12/2023  
 BRADFORD J. TRAVERS, P.L.S. REG. NO. DATE  
 WATERMAN ENGINEERING COMPANY (COA No. LS.0004483)

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI Environmental Management  
 FEB 26 2024  
 Office of Water Resources

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 WATERMAN ENGINEERING COMPANY  
 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

1	04/05/23	EXPANDED AREA OF TOPOGRAPHY	BJT
NO.	DATE	REVISION	CHECKED BY
EXISTING CONDITIONS & TOPOGRAPHIC SURVEY PLAN			PROJECT NO. 22-062
BURRILLVILLE HIGH SCHOOL - 425 EAST AVE. BURRILLVILLE, RHODE ISLAND			SCALE: 1" = 30'
JOE CASALI ENGINEERING INC. 300 POST ROAD WARWICK, RHODE ISLAND 02888			DATE: 11/02/2022
DRAWN BY: EDP			CHECKED BY: BJT
FILENAME: 22-062_SU2			4 of 4 SHTS
DRAWING #: SU2			

