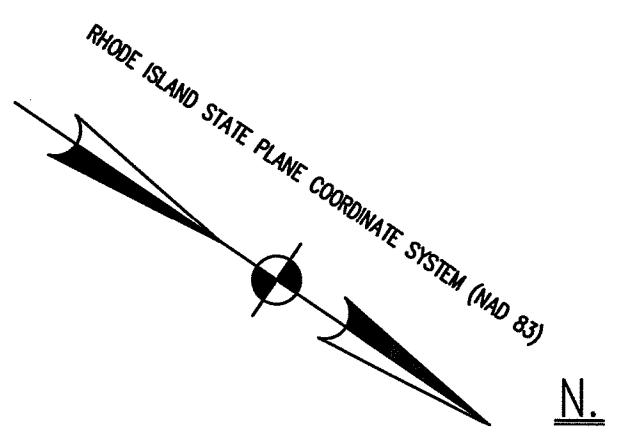


**REFERENCES:**

- SEE THAT CERTAIN RECORDED MAP OF LAND ENTITLED " EDEN PARK NO.2 PONTIAC AVENUE, CRANSTON, RI, BELONGING TO THE J. A. BUDLONG AND SON CO., BY J.A. LATHAM, NOV. 1895 " RECORDED IN THE CITY OF CRANSTON CLERK OFFICE IN PLAT BOOK 6 AT PAGE 1 AND ON PLAT CARD 32.
- SEE THAT CERTAIN RECORDED MAP OF LAND ENTITLED " EDEN PARK WEST, CRANSTON, RI, BELONGING TO THE PROVIDENCE REAL ESTATE IMPROVEMENT CO., BY FRANK E. WATERMAN CO., NOV. 1925 " RECORDED IN THE CITY OF CRANSTON CLERK OFFICE IN PLAT BOOK 11 AT PAGE 24 AND ON PLAT CARD 274.
- SEE THAT CERTAIN RECORDED MAP OF LAND ENTITLED " FOREST HILLS PLAT NO. 6, CRANSTON, RHODE ISLAND BELONGING TO THE PROVIDENCE REAL ESTATE IMPROVEMENT CO., BY FRANK E. WATERMAN CO., JANUARY 1925 " RECORDED IN THE CITY OF CRANSTON CLERK OFFICE IN PLAT BOOK 11 AT PAGE 11 AND ON PLAT CARD 266.
- SEE THAT CERTAIN MAP OF LAND ENTITLED " POCASSET RIVER - RIVERVIEW TERRACE & BLACKMORE POND FLOODPLAIN EASEMENT, MAP 9 LOTS 1279, 2972, 2981 & PART OF 141 OWNED BY CITY OF CRANSTON AUTUMN STREET, CRANSTON RHODE ISLAND, BOUNDARY SURVEY ARRA EWP FLOOD PLAIN EASEMENT, DATED NOVEMBER, 2009 BY NATIONAL SURVEYORS-DEVELOPERS INC. "

**NOTES:**

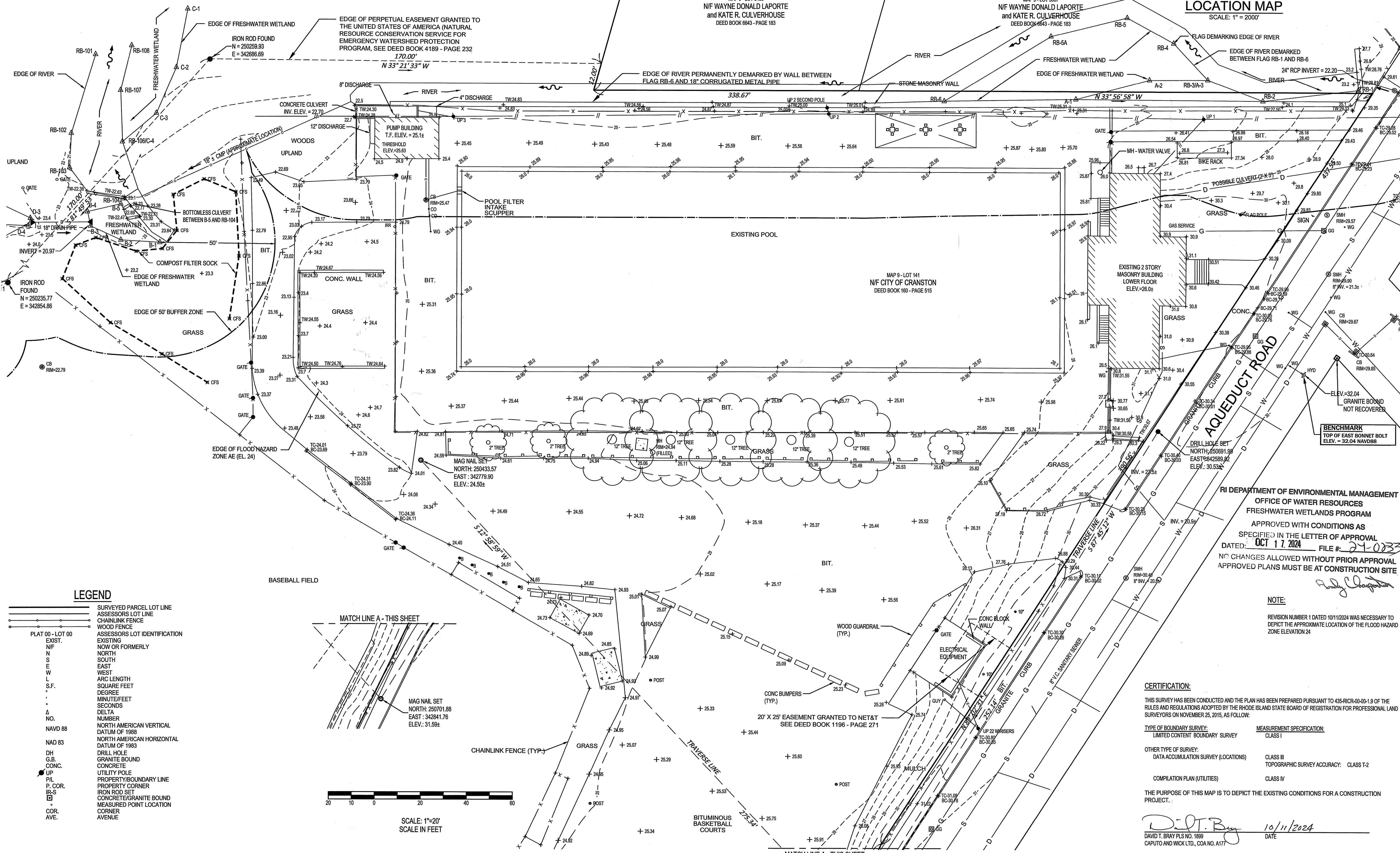
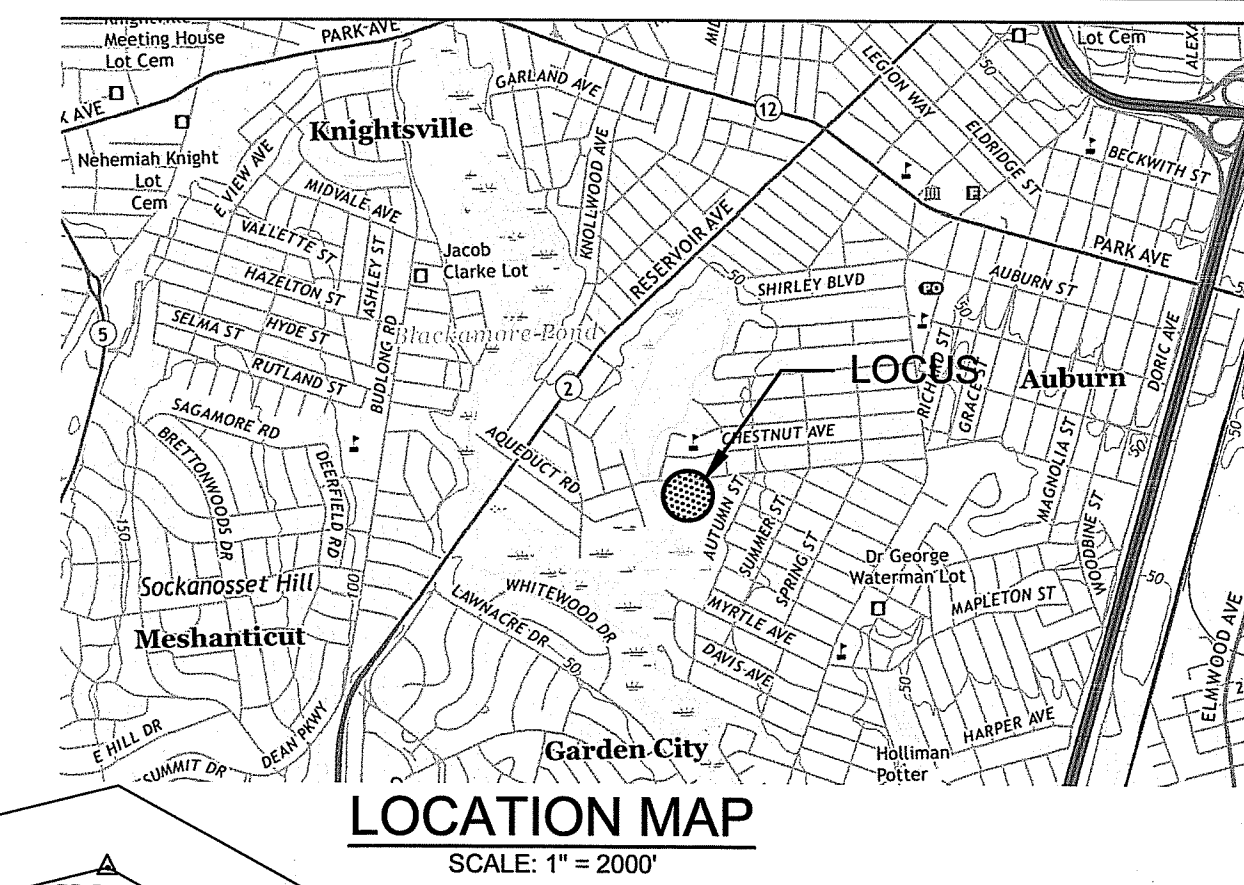
- THE SITE IS SERVICED BY UNDERGROUND UTILITIES, NOT ALL UTILITIES MAY BE SHOWN ON THIS MAP. THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON VISUAL SURFACE OBSERVATIONS, THEIR EXACT LOCATION MAY NOT BE ACCURATE AS DEPICTED.
- PARCEL INFORMATION IS BASED UPON ONLINE ASSESSORS INFORMATION AS OF JANUARY 14, 2024.
- GPS OBSERVATIONS WERE CONDUCTED ON JUNE 28, 2023 AND JULY 13, 2023. OBSERVATIONS WERE OBTAINED UTILIZING SMARTNET NORTH AMERICA NETWORK. GRID BEARINGS ARE RI NAD83.
- THE EXISTING CONDITIONS REPRESENTED HEREON ARE BASE UPON SURVEY MEASUREMENTS CONDUCTED BETWEEN JUNE 28, 2023 AND AUGUST 16, 2023.



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: **OCT 17 2024** FILE #: **21-0233**  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTE:  
REVISION NUMBER 1 DATED 10/11/2024 WAS NECESSARY TO DEPICT THE APPROXIMATE LOCATION OF THE FLOOD HAZARD ZONE ELEVATION 24

**CERTIFICATION:**  
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-01.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

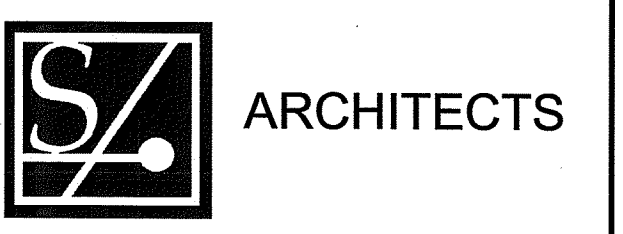
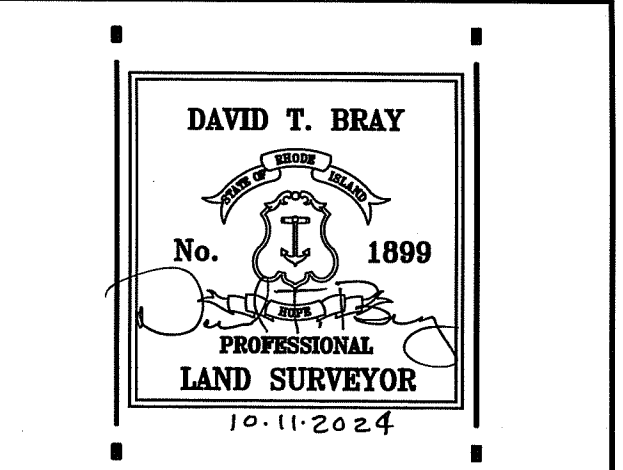
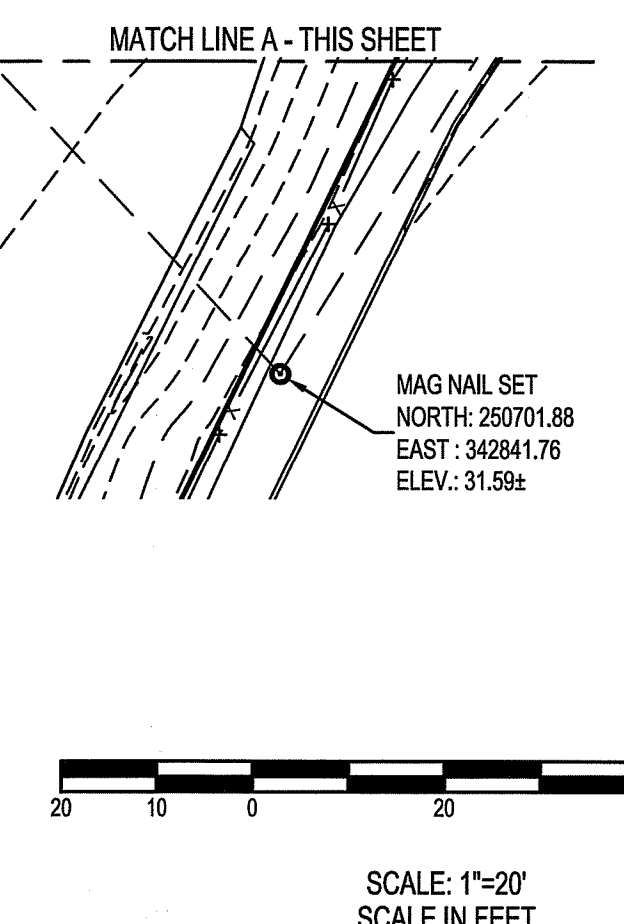
TYPE OF BOUNDARY SURVEY:	MEASUREMENT SPECIFICATION:
LIMITED CONTENT BOUNDARY SURVEY	CLASS I
OTHER TYPE OF SURVEY:	
DATA ACCUMULATION SURVEY (LOCATIONS)	CLASS III TOPOGRAPHIC SURVEY ACCURACY: CLASS T-2
COMPILATION PLAN (UTILITIES)	CLASS IV

THE PURPOSE OF THIS MAP IS TO DEPICT THE EXISTING CONDITIONS FOR A CONSTRUCTION PROJECT.

*D.T. Bray* 10/11/2024  
DAVID T. BRAY PLS NO. 1899 DATE  
CAPUTO AND WICK LTD., COA NO. A177

**LEGEND**

—	SURVEYED PARCEL LOT LINE
—	ASSESSORS LOT LINE
—	CHAINLINK FENCE
—	WOOD FENCE
—	ASSESSORS LOT IDENTIFICATION
—	EXISTING
—	NOW OR FORMERLY
N	NORTH
S	SOUTH
E	EAST
W	WEST
L	ARC LENGTH
S.F.	SQUARE FEET
°	DEGREE
'	MINUTE/FEET
"	SECONDS
Δ	DELTA
NO.	NUMBER
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
NAD 83	NORTH AMERICAN HORIZONTAL DATUM OF 1983
DH	DRILL HOLE
G.B.	GRANITE BOUND
CONC.	CONCRETE
UP	UTILITY POLE
PIL	PROPERTY/BOUNDARY LINE
P. COR.	PROPERTY CORNER
IR-S	IRON ROD SET
□	CONCRETE/GRANITE BOUND
□	MEASURED POINT LOCATION
COR.	CORNER
AVE.	AVENUE



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**Revision Schedule**

Revision Number	Revision Date
1	10/11/2024

ISSUED FOR PERMIT  
8/13/24

**SHEET TITLE**  
**EXISTING**  
**CONDITIONS**  
**PLAN**

OCT 11 2024

DRAWN BY:	DB	JOB NUMBER:	2023026
CHECKED BY:	KH	DATE:	9-10-24

**C1.0**  
SHEET: OF:

**SITE CONSTRUCTION NOTES:**

**GENERAL NOTES:**

- ALL WORK AND MATERIALS SHALL CONFORM WITH THE PROVISIONS OF THE RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2010), AND THE PROJECT SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AS THEY RELATE TO NEW CONSTRUCTION. REPORT TO THE ARCHITECT/ENGINEER ALL OBSERVATIONS AND ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY WORK.
- UNDERGROUND UTILITY INFORMATION SHOWN ON THE DRAWINGS HAS BEEN PLOTTED BY THE SURVEYOR FROM RECORD DATA AND MAY NOT BE CORRECT. PRIOR TO ANY EXCAVATION, CONTACT DIG SAFE TO ESTABLISH MORE PRECISE LOCATIONS ON THE GROUND.
- INSTALL 6 INCHES OF LOAM AND SEED IN ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE NOT DESIGNATED FOR ANOTHER SURFACE TREATMENT.
- ANY DAMAGE TO EXISTING UTILITIES OR PRIVATE PROPERTY CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED AT APPROVED LOCATIONS WITHIN THE SITE. SIDEWALKS, PARKING AND ROADWAY AREAS MUST BE MAINTAINED TO AVOID INTERFERENCE WITH VEHICULAR OR PEDESTRIAN TRAFFIC. THE CONTRACTOR MUST COORDINATE AND OBTAIN ANY PERMITS REQUIRED.
- AT CONSTRUCTION COMPLETION, THE CONTRACTOR SHALL SUBMIT "AS-BUILT" RECORD DRAWINGS SHOWING THE EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES, REFERENCED TO PERMANENT BENCH MARKS.
- THE CONTRACTOR IS TO COORDINATE ALL GRADES WITH FINISH SURFACE WITH IT VENDOR.
- REVIEW ALL PLANS FOR ADDITIONAL INFORMATION.

**GENERAL CONSTRUCTION REQUIREMENTS:**

- SOIL EROSION AND SEDIMENT CONTROL SITE MONITORING AND REPORTING SHALL BE AS SPECIFIED ON THESE SITE DRAWINGS AND IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- ANY REFUELING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL NOT OCCUR NEAR THE ENTRANCE TO ANY STORM DRAINAGE SYSTEM OR NEAR THE DOWNSLOPE PERIPHERY OF THE PROJECT AREA.
- ANY ON-SITE DISPOSAL OF SOLID WASTE, INCLUDING EARTH MATERIALS, SHALL OCCUR WITHIN THE CONSTRUCTION AREA (UNLESS OTHERWISE DESIGNATED). ANY MATERIAL NOT RE-USED ON SITE SHALL BE HAULED OFF SITE TO AN AUTHORIZED, LEGAL LOCATION.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INFORMED THAT THE CLEANING OF EQUIPMENT IS PROHIBITED IN AREAS WHERE THE WASH-WATER WILL DRAIN DIRECTLY TO SITE DRAINAGE SYSTEMS.
- VEHICLE AND CONCRETE WASHOUT IS PROHIBITED ON PAVED SURFACES. IF REQUIRED ON SITE, ALL WASHOUT LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO USE.
- THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL. THIS OPERATION SHALL INCLUDE SWEEPING ALL PAVED SURFACES LOCATED IN THE SITE AREA AND ANY OFF-SITE AREAS THAT ARE IMPACTED BY SITE CONSTRUCTION ON A REGULAR BASIS.
- THE CONTRACTOR SHALL LIMIT OPERATIONS THAT RESULT IN THE GENERATION OF AIRBORNE SEDIMENT. ONLY CLEAN, POTABLE WATER SHALL BE USED TO CONTROL DUST.

**SOIL STABILIZATION AND SEEDING NOTES:**

- SEEDING SHALL OCCUR IMMEDIATELY FOLLOWING FINAL GRADING IN DISTURBED AREAS THAT WILL NOT BE SUBJECT TO FURTHER DISTURBANCE.
- AREAS THAT WILL BE SUBJECT TO FURTHER DISTURBANCE BUT WILL REMAIN IDLE FOR MORE THAN 21 DAYS SHALL BE SEEDED WITH ANNUAL RYE OR OTHERWISE PROTECTED TO PROVIDE TEMPORARY STABILIZATION.
- ALL DISTURBED SLOPES SHALL BE IMMEDIATELY STABILIZED WITH APPROPRIATE METHODS AND MATERIALS AS APPROVED BY THE ENGINEER.
- IF ADVERSE WEATHER CONDITIONS DO NOT ALLOW PROPER GRASS GERMINATION AND GROWTH WHERE REQUIRED, THEN TEMPORARY MULCHING WITH STRAW OR EQUIVALENT METHOD SHALL BE UTILIZED.
- ALL DISTURBED SURFACES TO BE SEEDED SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL WITH THE SURFACE FINE GRADED.
- FOR AREAS TO BE HYDROSEED, THE HYDROSEED MIX SHALL CONTAIN AN APPROPRIATE TACIFYING AGENT.
- ALL DISTURBED SOILS EITHER NEWLY CREATED, OR EXPOSED, LOCATED WITHIN 50 FEET OF WETLANDS SHALL BE SEEDED OR PROTECTED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR. ANY AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15 OF THE SAME YEAR MUST BE STABILIZED BY INSTALLING EROSION CONTROL MATTING, STRAW MULCH, OR EQUIVALENT.
- SEED APPLICATION SHALL OCCUR IN ACCORDANCE WITH SUPPLIER SPECIFICATIONS AND RECOMMENDATIONS. RECOMMENDED SEED MIXTURES ARE LISTED BELOW.

**SEEDING MATERIALS**

**1. PERMANENT SEED MIXTURE**

**A. MOWED AREA (ALL FLATS OR SLOPES LESS THAN 3:1)**

MIXTURE:	% BY WEIGHT:
RED FESCUE	70
KENTUCKY BLUEGRASS	15
PERENNIAL RYEGRASS	15

TOTAL 200 LBS./ACRE  
SEEDING DATES: APRIL 1 - JUNE 15; AUGUST 15 - OCTOBER 15

**B. UNMOWED AREA OR INFREQUENTLY MOWED (ALL SLOPES GREATER THAN 3:1 NOT STONE COVERED) INCLUDING DRAINAGE SWALE, GRASS CHANNELS, INFILTRATION BASIN, AND DETENTION BASIN**

MIXTURE:	% BY WEIGHT:
RED FESCUE	70
KENTUCKY BLUEGRASS	15
BIRDSFOOT TREFLOIL	15

TOTAL 200 LBS./ACRE  
SEEDING DATES: APRIL 1 - JUNE 15; AUGUST 15 - OCTOBER 15

**C. QUALIFYING PERVIOUS AREA**

MIXTURE:	% BY WEIGHT:
RED FESCUE	30
KENTUCKY BLUEGRASS	10
PERENNIAL RYEGRASS	20
LITTLE BLUESTEM	20
TIMOTHY	20

TOTAL 200 LBS./ACRE  
SEEDING DATES: APRIL 1 - JUNE 15; AUGUST 15 - OCTOBER 15

**2. TEMPORARY SEED MIXTURE (CONSTRUCTION CONDITIONS)**

MIXTURE:	LBS. / 1,000 S.F.	LBS. / AC.	SEEDING DATES:
ANNUAL RYEGRASS	1.0 - 1.5	40 - 60	1/1 - 6/1
PERENNIAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
SUDAN GRASS	0.7 - 1.0	30 - 40	5/15 - 8/15
MILLET	0.7 - 1.0	30 - 40	5/15 - 8/15
WINTER RYE	3.0	120	1/1 - 6/15 or 10/15 - 12/31
OATS	0.5 - 5.0	86 - 120	3/1 - 6/15
WEEPING COVER GRASS	0.5 - 5.0	15 - 50	5/1 - 7/1

TEMPORARY TREATMENTS SHALL INCLUDE A STRAW, FIBER MULCH OR OTHER PROTECTIVE COVER SUCH AS A MAT OR FIBER COVER (BURLAP, JUTE, EXCELSIOR BLANKET, ETC.) STRAW APPLICATIONS SHOULD BE APPLIED AT 3,000 - 4,000 LBS./AC.

**DEWATERING NOTES:**

- EARTHEN MATERIAL EXCAVATED IN GROUNDWATER, OR OTHERWISE DETERMINED TO BE SATURATED, MUST BE PLACED IN DEWATERING AREAS ACCEPTED BY THE ENGINEER AND MUST REMAIN IN PLACE FOR A MINIMUM 72 HOURS IF IT IS TO BE HAULED OFF SITE. SEE DETAILS FOR DEWATERING BASIN.
- DEWATERED MATERIAL NOT TO BE REUSED AS PART OF THE ACTIVITIES PROPOSED UNDER THIS PROJECT IS TO BE RESPONSIBLY HAULED TO A LEGAL, NON-WETLAND DISPOSAL SITE.
- IF TRENCH DEWATERING IS REQUIRED, THEN PUMP WATERS MUST BE DIRECTED TO A STONE OR STRAW BALE ENCLOSURE (SEE DETAILS), SILT BAG, SEDIMENT TRAP, OR EQUIVALENT. PUMP WATER DISCHARGE DIRECTLY TO A DRAINAGE INLET STRUCTURE OR BEYOND PROJECT LIMITS IS PROHIBITED AND WILL NOT BE AUTHORIZED UNDER ANY CIRCUMSTANCE.

**SITE CONSTRUCTION NOTES:**

**EROSION AND SEDIMENTATION CONTROL NOTES:**

- THE CONTRACTOR IS RESPONSIBLE FOR PROPER EROSION CONTROL AND SHALL UTILIZE EROSION CONTROL MEASURES WHERE NEEDED, REGARDLESS OF WHETHER THE CONTROLS ARE SPECIFIED IN THE CONTRACT DOCUMENTS.
- APPROPRIATE PRECAUTIONS SHALL BE TAKEN TO PREVENT THE TRACKING OF SOIL FROM CONSTRUCTION EQUIPMENT ONTO PAVED SURFACES. THE STONE CONSTRUCTION ENTRANCES SHOWN ON THE PLANS MUST BE PROPERLY INSTALLED AND MAINTAINED. STONE IS TO BE REPLACED WHEN IT BECOMES LADEN WITH SEDIMENT AND LOOSES ITS EFFECTIVENESS.
- ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK AT THE SPECIFIC AREAS INDICATED ON THE PLANS.
- ALL COMPOST FILTER SOCK IS TO BE INSTALLED IN ACCORDANCE WITH THE DETAILS. COMPOST FILTER SOCK IS TO REMAIN WELL STAKED AND IN TIGHT GROUND CONTACT.
- ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED AND MUST REMAIN IN PLACE UNTIL SOILS HAVE STABILIZED TO THE SATISFACTION OF THE ENGINEER, OR RIDEM. CONTROLS ARE TO BE INSPECTED WEEKLY AND IMMEDIATELY FOLLOWING ALL PRECIPITATION EVENTS THAT RESULT IN RAINFALL OF 0.25" OR MORE.
- THE ENGINEER RESERVES THE RIGHT TO SPECIFY ADDITIONAL CONTROLS AS CONDITIONS MAY WARRANT. ACCESSIBLE RESERVES OF COMPOST FILTER SOCK, STRAW BALES, STAKES, AND 1.5" CRUSHED STONE ARE TO BE MAINTAINED ON SITE FOR ROUTINE MAINTENANCE AND IN THE EVENT OF UNANTICIPATED PROBLEMS REQUIRING IMMEDIATE RESPONSE.
- NO EARTHWORK IS TO OCCUR ON THE DOWNGRADIENT SIDE OF PERIMETER EROSION AND SEDIMENTATION CONTROLS UNLESS OTHERWISE SPECIFIED.
- STONES, CONSTRUCTION DEBRIS, LITTER, OR OTHER SUCH MATERIALS SHALL NOT BE DEPOSITED OUTSIDE OF DESIGNATED PROJECT LIMITS.
- ALL EARTHEN MATERIAL SHALL REMAIN AT LEAST ONE FOOT INSIDE OF ALL PERIMETER EROSION CONTROLS. UNDER NO CIRCUMSTANCE SHALL THE EROSION CONTROLS BE COVERED WITH EARTHEN MATERIAL. ANY EARTHEN MATERIAL THAT IS PLACED ON OR AGAINST EROSION CONTROLS SHALL BE IMMEDIATELY REMOVED.
- COMPOST FILTER SOCK OR STRAW BALE CHECK DAMS SHALL BE INSTALLED PERPENDICULAR TO THE PERIMETER CONTROLS AT THE BASE OF SLOPES AT ANY AREA WHERE STORM WATER TRAVELING ALONG THE PERIMETER CONTROLS IS BEGINNING TO SCOUR A CHANNEL DUE TO VELOCITY.
- SOIL STOCKPILES TO REMAIN IDLE MORE THAN 21 CALENDAR DAYS ARE TO BE RINGED WITH EITHER COMPOST FILTER SOCK OR STAKED STRAW BALES AND SEEDED WITH A CONSERVATION GRASS MIX.
- ANY DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ALONG THE SITE PERIPHERY ARE TO BE LOAMED (MIN. 6 INCHES) AND SEEDED IMMEDIATELY FOLLOWING FINAL GRADING.
- ALL CATCH BASINS AND DRAIN INLETS MUST BE ADEQUATELY PROTECTED FROM SEDIMENT INTRUSION AT LEAST UNTIL ALL AREAS TO BE PAVED IN THE CONTRIBUTING WATERSHEDS HAVE RECEIVED BINDER COAT.
- AT NO TIME DURING CONSTRUCTION SHALL TURBID STORMWATER BE ALLOWED TO FLOW BEYOND PROJECT LIMITS. IF ANY TURBID STORMWATER SHOULD TRAVEL BEYOND PERIMETER CONTROLS, THEN CORRECTIVE ACTION MUST BE IMPLEMENTED IMMEDIATELY. SEE SESC PLAN FOR REPORTING REQUIREMENTS IN THE EVENT THAT TURBID STORMWATER SHOULD ENTER ANY CLOSED DRAINAGE SYSTEM.
- DRAINAGE STRUCTURES AND THEIR INLET AND OUTLET CONTROLS ARE TO BE INSPECTED WEEKLY AND IMMEDIATELY FOLLOWING PRECIPITATION EVENTS RESULTING IN RAINFALL OF >0.25". THE SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC) PREPARED FOR THE PROJECT SHALL REMAIN ON SITE AND MUST BE ADHERED TO THROUGH ALL STAGES OF CONSTRUCTION. SITE MONITORING AND REPORTING SHALL BE AS SPECIFIED IN THE SESC PLAN AND ON THESE PLANS AND IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- THE SESC PLAN PREPARED FOR THE PROJECT MUST BE CLOSELY ADHERED TO INCLUDING ALL MONITORING AND REPORTING REQUIREMENTS.

**DRAINAGE CONSTRUCTION NOTES:**

- THE DRAINAGE SYSTEMS SHALL BE INSTALLED BY STARTING AT THE DOWNGRADIENT END AND WORKING UPGRADIENT.
- RIP-RAP SHALL BE INSTALLED AT PIPE INLETS AND OUTLETS WHERE SHOWN IMMEDIATELY AFTER INSTALLING PIPE. COMPOST FILTER SOCK SHALL BE INSTALLED AT THE OUTFALL OF ALL TEMPORARY BASINS AND SWALES AND SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY AREAS ARE STABILIZED.
- RUNOFF FROM UN-STABILIZED SURFACES SHALL NOT BE ALLOWED TO ENTER DRAINAGE PIPES.
- TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY PIPE INSTALLATION. ALL TRENCHES SHALL BE BACK FILLED AS SOON AS POSSIBLE. THE UPSTREAM ENDS OF PIPES SHALL BE CLOSED NIGHTLY WITH PLYWOOD CAPS.
- IT IS IMPORTANT THAT BINDER COURSE BE INSTALLED IN PROPOSED PAVED AREAS AS SOON AS FEASIBLE AS THESE AREAS WILL FUNCTION AS A CONDUIT FOR RUNOFF.
- ALL DRAIN PIPE SHALL BE CORRUGATED POLYETHYLENE (CPEP), UNLESS OTHERWISE NOTED.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING DRAINAGE STRUCTURES AND PIPES, AS NECESSARY, BEFORE ACCEPTANCE BY THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING, MAINTAINING, AND REMOVING ALL SEDIMENT CONTROL MEASURES DURING CLEANING.

**WATER SUPPLY, SEWER AND SITE UTILITIES CONSTRUCTION NOTES:**

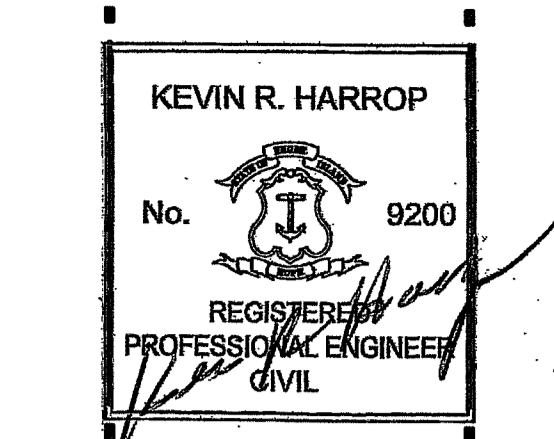
- CARE SHALL BE TAKEN TO ASSURE THAT UTILITY TRENCHES DO NOT CHANNELIZE RUNOFF TOWARDS SENSITIVE AREAS.
- WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVIDENCE WATER SUPPLY BOARD AND THE CONSTRUCTION SPECIFICATIONS.
- SEWER LINES, MANHOLES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF CRANSTON SEWER DEPARTMENT AND THE CONSTRUCTION SPECIFICATIONS.

**LANDSCAPING CONSTRUCTION NOTES:**

- LANDSCAPING SHALL OCCUR AS SOON AS POSSIBLE AFTER GENERAL CONSTRUCTION OPERATIONS IN ORDER TO PROVIDE PERMANENT STABILIZATION OF DISTURBED SURFACES.
- THE CONTRACTOR SHALL UTILIZE SLOPE STABILIZATION METHODS AND MATERIALS THAT MAY BE ADJUSTED TO VARYING SITE CONDITIONS.
- IF THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT PERMIT PROPER GROWTH OF VEGETATION, TEMPORARY MULCHING WITH STRAW OR OTHER METHODS SHALL BE PROVIDED.
- ALL DISTURBED SURFACES TO BE PLANTED SHALL RECEIVE A MINIMUM OF 6" OF LOAM WITH THE SURFACE SMOOTHED TO THE SPECIFIED GRADES.
- SEED APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS.

**GENERAL MAINTENANCE:**

- GRASSED SLOPES SHALL REMAIN WELL STABILIZED WITH CONTINUOUS GRASS COVER OR OTHER DESIGNATED SURFACE TREATMENT TO PREVENT EROSION AND CONSEQUENT SEDIMENT CONTRIBUTIONS TO DRAINAGE STRUCTURES. EXPOSED AREAS SHALL BE RESEED IMMEDIATELY TO STABILIZE EXPOSED SOILS.
- SHOULD PAVEMENT SEAL COATING AND CRACK REPAIR BE REQUIRED, THE USE OF COAL-TAR BASED SEALANTS SHALL BE PROHIBITED (DUE TO HIGH CONTENT OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)). THE USE OF ASPHALT-BASED SEALANTS IS ACCEPTABLE.
- TRASH RECEPCTACLES SHALL BE SITED AT LOCATIONS THAT ARE DISTANT FROM DRAIN INLETS AND SHALL BE EMPTIED REGULARLY AND FOLLOWING EVENTS.
- THE TRASH DUMPSTER TO BE LOCATED ON SITE SHALL REMAIN UNDER COVER AND SHALL BE EMPTIED ROUTINELY. OVERFLOW AND LEAKAGE ARE PROHIBITED, BUT INADVERTENT LEACHATE SHALL BE ALLOWED TO DRAIN TO THE PROCESSED WATER SYSTEM AS INTENDED.
- DURING SNOW-REMOVAL OPERATIONS IN ACCESS ROADWAYS AND PARKING AREAS, CARE SHALL BE TAKEN TO CLEAR CATCH-BASIN AND TREE-FILTER INLETS AND TO ENSURE THAT THE INLETS ARE NOT COVERED BY SNOW PILES.
- GRASS AREAS ADJACENT TO ROADWAYS AND PARKING AREAS HAVE BEEN GRADED TO DRAIN TOWARD THE PAVED AREAS TO ALLOW TREATMENT OF SNOW MELT WATER BY THE BMPS.



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**Budlong Pool**

222 Aqueduct Road Cranston, RI 02910

Revision Schedule	
Revision Number	Revision Date

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: OCT 17 2024 FILE #: 24-0233  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Kevin R. Harrop*

**SHEET TITLE  
CONSTRUCTION  
NOTES**

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DRAWN BY: DB	JOB NUMBER: 2023026
CHECKED BY: KH	DATE: 9-10-24

**C2.1**

SHEET: OF:

J:\RhodeIsland\CranstonAqueduct\Road\20230206 RI Cranston Aqueduct Budlong\20230206 RI Cranston Aqueduct Budlong 2 RIDEM.dwg

**Budlong Pool**

222 Aqueduct Road  
Cranston, RI 02910

Revision Schedule	
Revision Number	Revision Date
1	10/11/2024

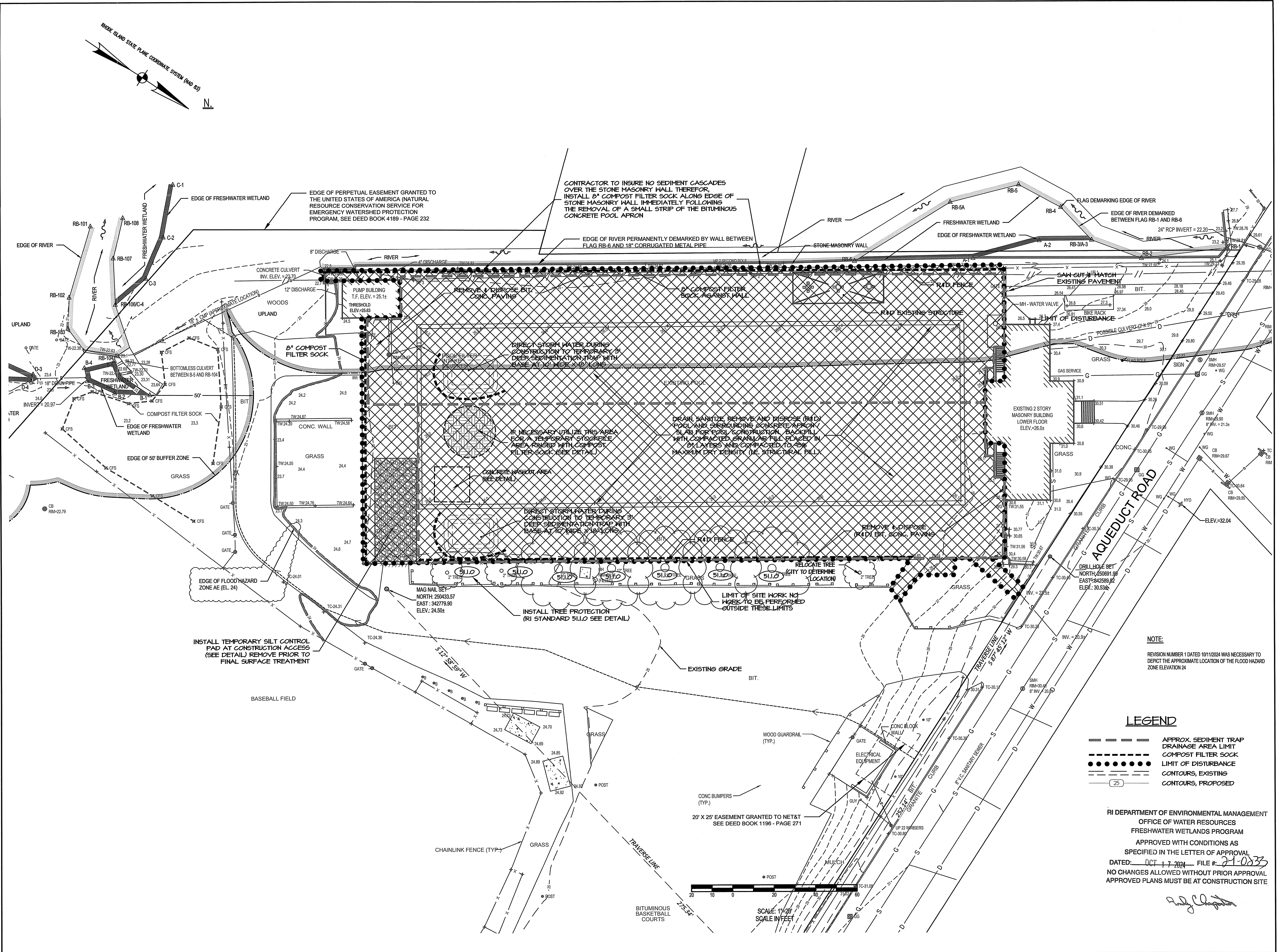
ISSUED FOR PERMIT  
8/13/24

**SHEET TITLE**  
**DEMOLITION AND EROSION CONTROL PLAN**

DRAWN BY: DB		JOB NUMBER: 2023026	
CHECKED BY: KH		DATE: 9-10-24	

**C3.1**

SHEET: OF:



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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: OCT 17 2024 FILE #: 21-0833  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Andy Caputo*

Revision Schedule	
Revision Number	Revision Date
1	10/11/2024

ISSUED FOR PERMIT  
8/13/24

**SHEET TITLE**  
**LAYOUT AND GRADING PLAN**

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: OCT 17 2024 FILE # 24-0232  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
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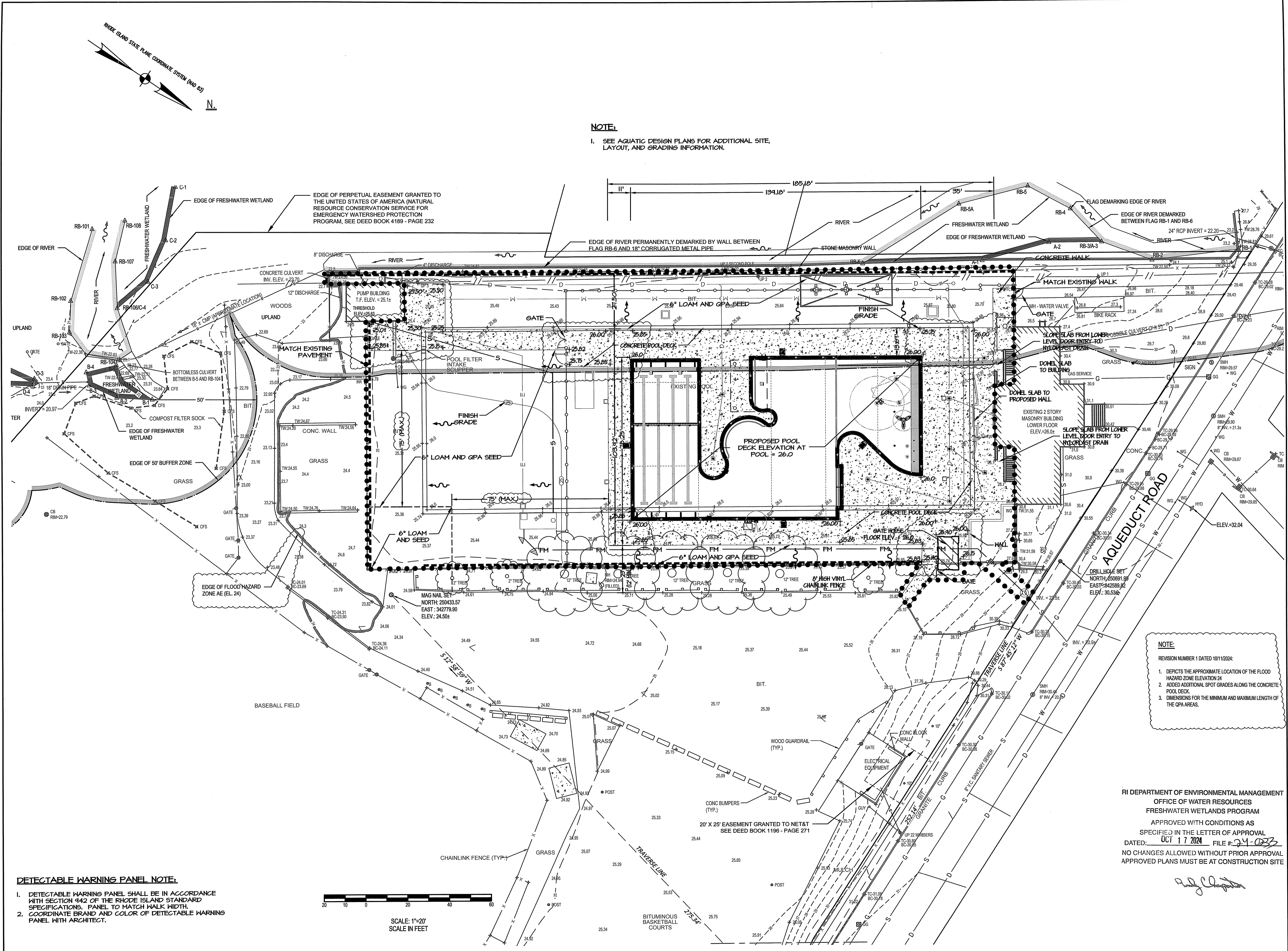
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DRAWN BY: DB	JOB NUMBER: 2023026
CHECKED BY: KH	DATE: 9-10-24

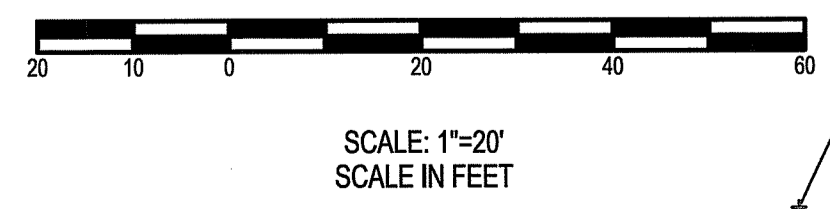
**C4.1**

SHEET: OF:

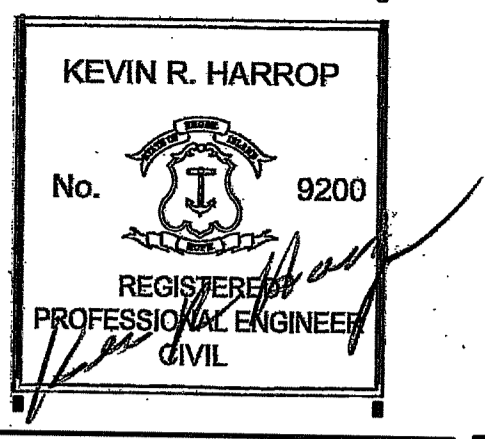
**NOTE:**  
1. SEE AQUATIC DESIGN PLANS FOR ADDITIONAL SITE LAYOUT, AND GRADING INFORMATION.



**DETECTABLE WARNING PANEL NOTE:**  
1. DETECTABLE WARNING PANEL SHALL BE IN ACCORDANCE WITH SECTION 442 OF THE RHODE ISLAND STANDARD SPECIFICATIONS, PANEL TO MATCH WALK WIDTH.  
2. COORDINATE BRAND AND COLOR OF DETECTABLE WARNING PANEL WITH ARCHITECT.



I:\RhodeIsland\Cranston\Aqueduct Road\2023026 RI Cranston Aqueduct Building 2 RIDDEM.dwg



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**Budlong Pool**

222 Aqueduct Road  
 Cranston, RI 02910

Revision Schedule	
Revision Number	Revision Date
1	10/11/2024

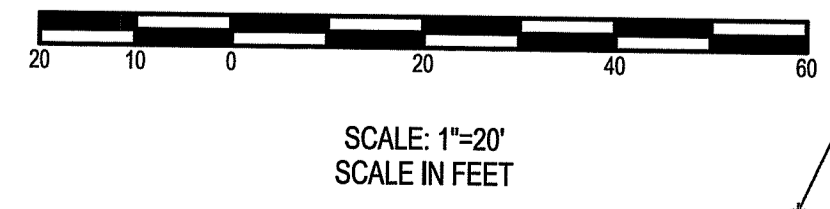
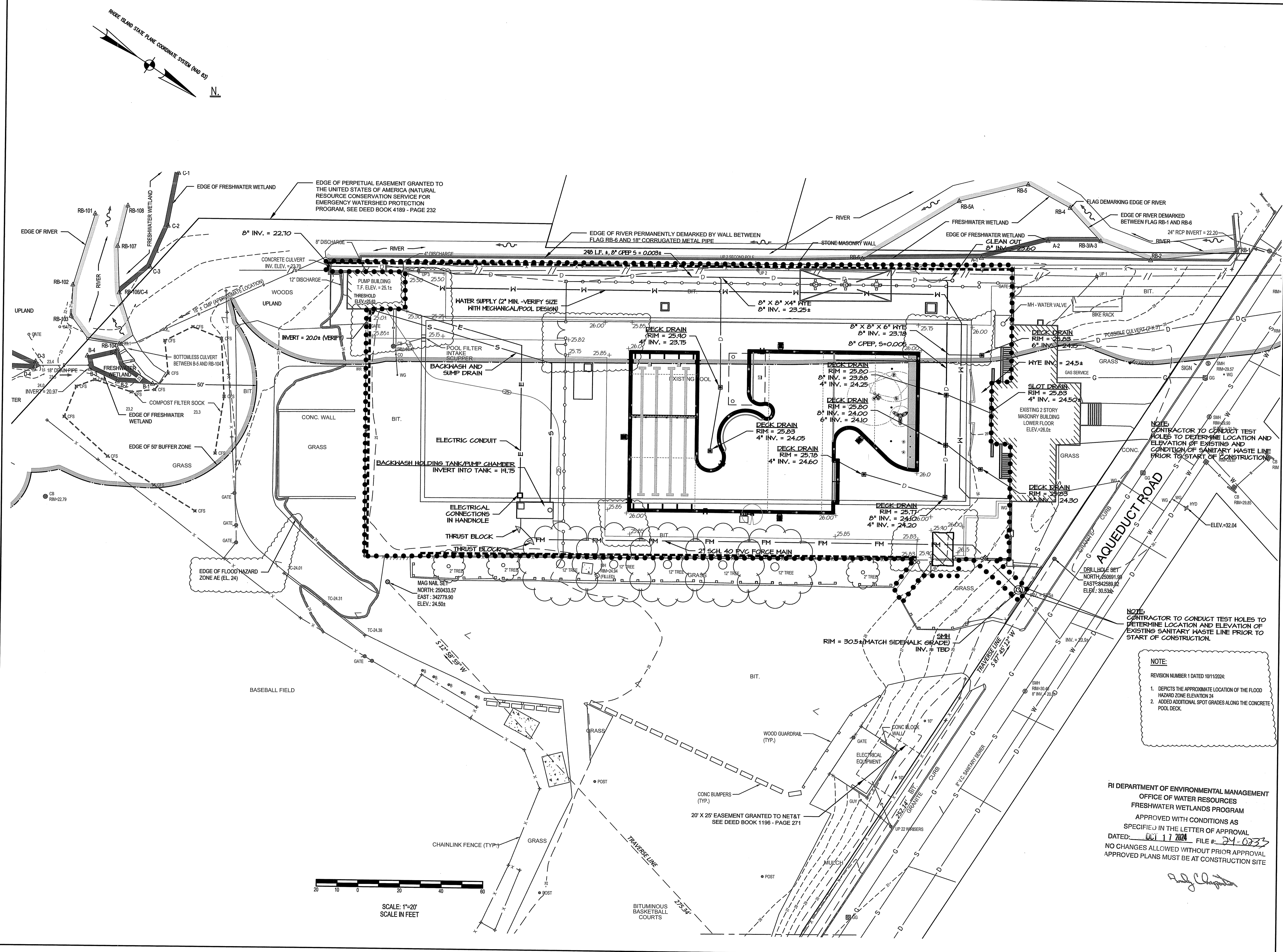
ISSUED FOR PERMIT  
 8/13/24

**SHEET TITLE  
 DRAINAGE AND  
 UTILITY PLAN**

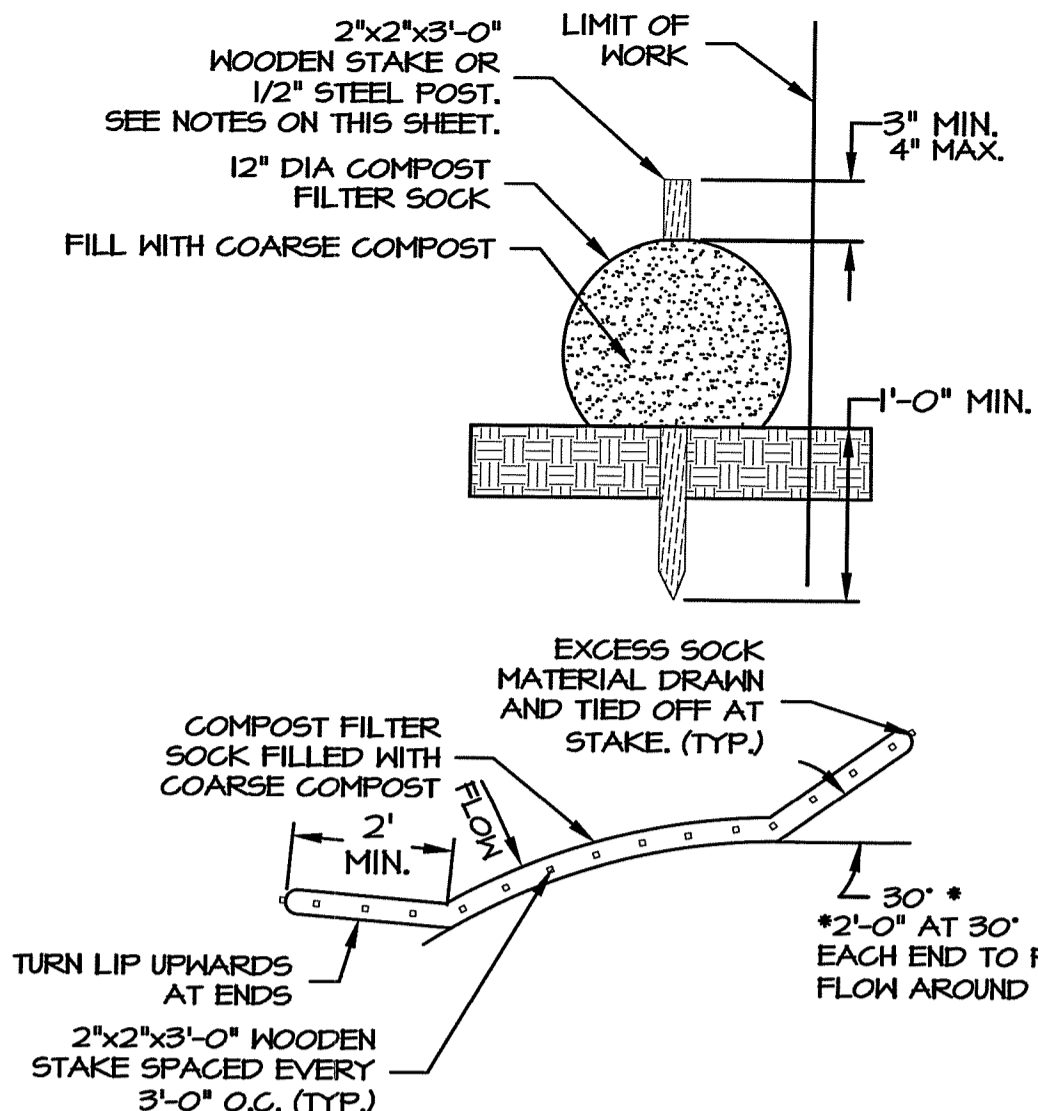
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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 DATED: OCT 17 2024 FILE #: 24-0233  
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SHEET: OF:



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- GENERAL NOTES:**
- FILTER SOCKS CAN BE PLACED AT THE TOP, ON THE FACE, AND AT THE TOE OF SLOPES AS SEDIMENT-TRAPPING DEVICES FOR SHEET FLOW RUNOFF AND SEDIMENT PER THESE NOTES AND COMPOST FILTER SOCK DETAILS, PLANS, AND SHEET.
  - FOR DITCH APPLICATIONS, MINIMUM INSTALLED HEIGHT OF SINGLE SOCK NOMINALLY. SOCKS ARE PLACED PERPENDICULAR TO FLOW OF WATER. FILTER SOCKS SHALL CONTINUE UP SIDE SLOPES TO TOP OF BANK OR MAXIMUM 3 FEET ABOVE INSTALLED HEIGHT. FILTER SOCKS SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM AREAS ARE PERMANENTLY STABILIZED.
  - INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.
  - REMOVAL SHALL BE ACCOMPLISHED BY CUTTING SOCK OPEN AND SPREADING THE FILL MATERIAL ON THE SITE. ALL NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED. FILTER SOCKS APPLIED IN DITCHES SHALL BE COMPLETELY REMOVED ONCE VEGETATION IS ESTABLISHED.

**COMPOST FILTER SOCK**  
NOT TO SCALE

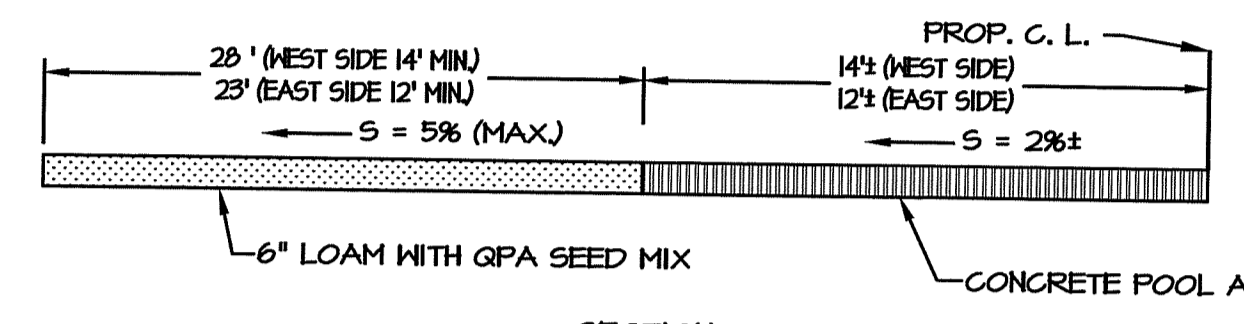
- NOTES:**
- PREVENT VEHICLES FROM DRIVING ON THE "QUALIFYING PERVIOUS AREA". IF THE "QUALIFYING PERVIOUS AREA" BECOMES COMPACTED, THE SOIL MUST BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED TO RESTORE INFILTRATION CAPACITY.
  - INSPECT THE "QUALIFYING PERVIOUS AREA" AT LEAST YEARLY TO REMOVE ANY DEPOSITED SEDIMENT (E.G. SAND FROM WINTER SANDING OPERATIONS), ADDRESS ANY PONDING, EROSION, AND REPLANT ANY VEGETATION THAT HAS DIED.

**SEEDING REQUIREMENTS**

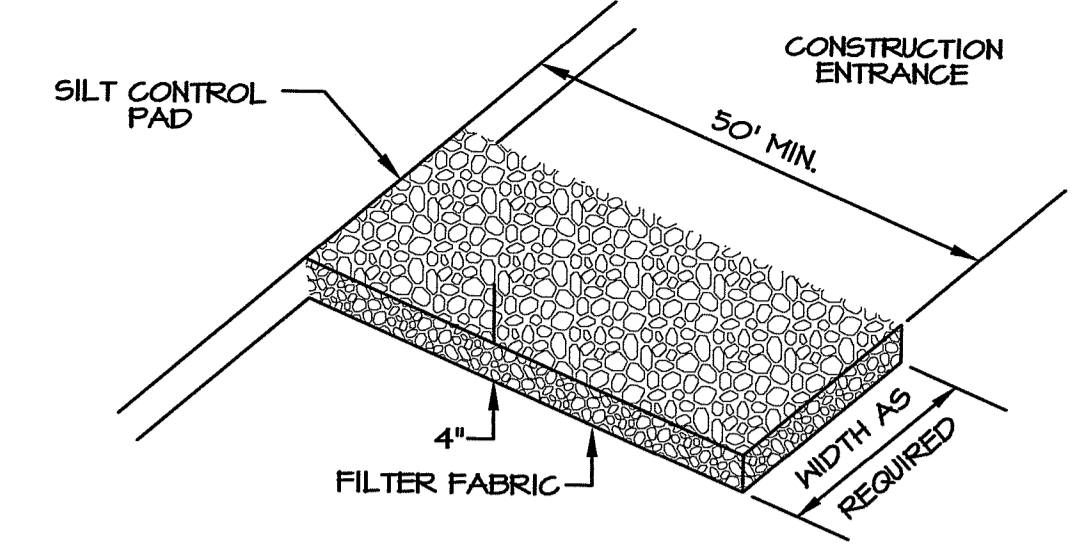
MIXTURE	% BY WEIGHT
RED FESCUE	30
KENTUCKY BLUEGRASS	10
PERENNIAL RYEGRASS	20
LITTLE BLUESTEM	20
TIMOTHY	20

\*SEE PLANTING PLAN

**TOTAL SEEDING RATES:** 200 LBS./ACRE  
APRIL 1 - JUNE 15;  
AUGUST 15 - OCTOBER 15



**QUALIFYING PERVIOUS AREA**  
NOT TO SCALE

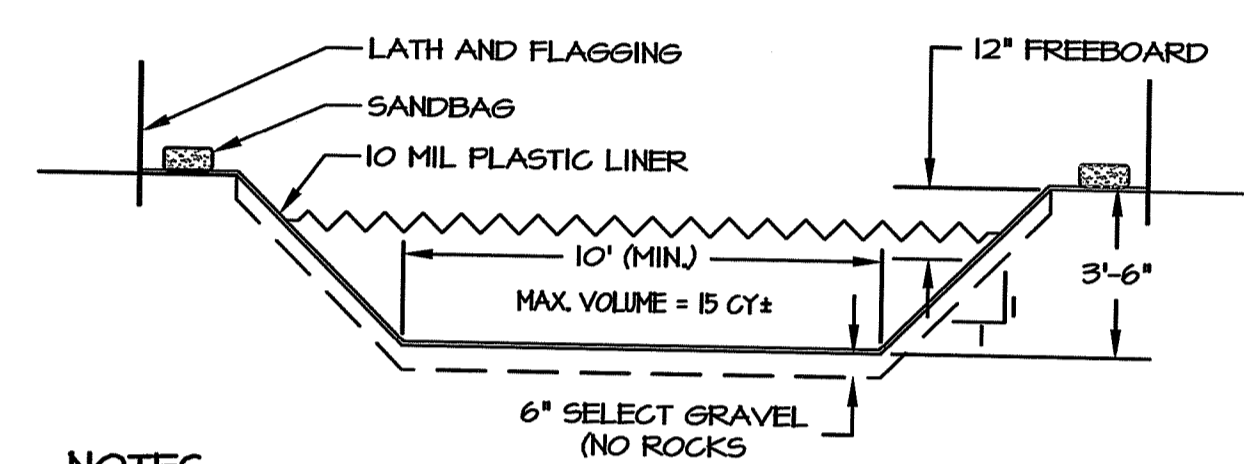
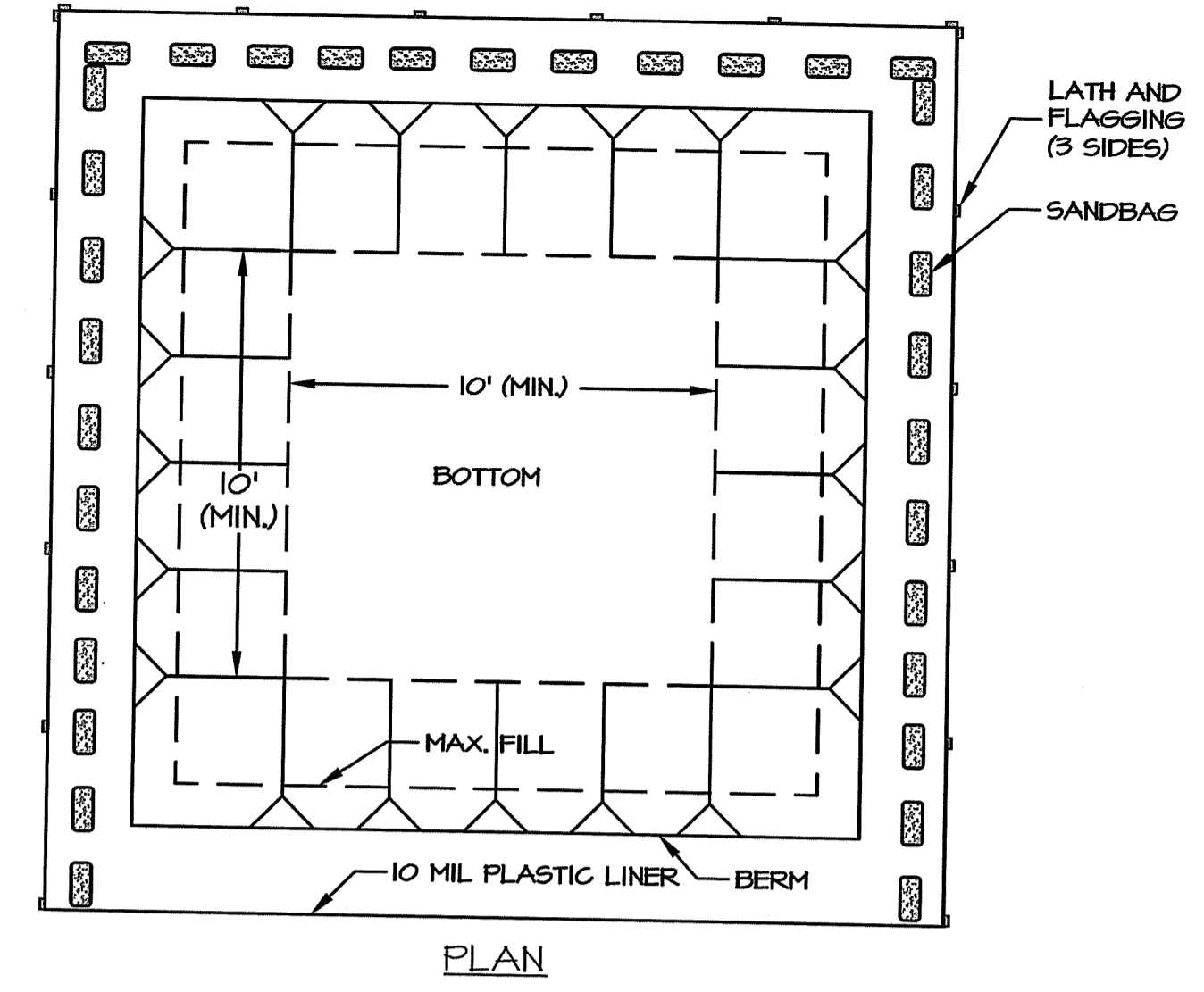


**MATERIALS SIZE**

SQUARE MESH SIEVES	2" CRUSHED STONE OR GRAVEL	ASTM C-33 NO.2	ASTM C-33 NO.3
2-1/2 INCHES	100	40-100	100
2 INCHES	95-100	35-10	40-100
1-1/2 INCHES	30-55	0-15	35-70
1-1/4 INCHES	0-25	-	-
1 INCH	0-5	-	0-15
3/4 INCH	-	-	0-5
1/2 INCH	-	-	-
3/8 INCH	-	-	-

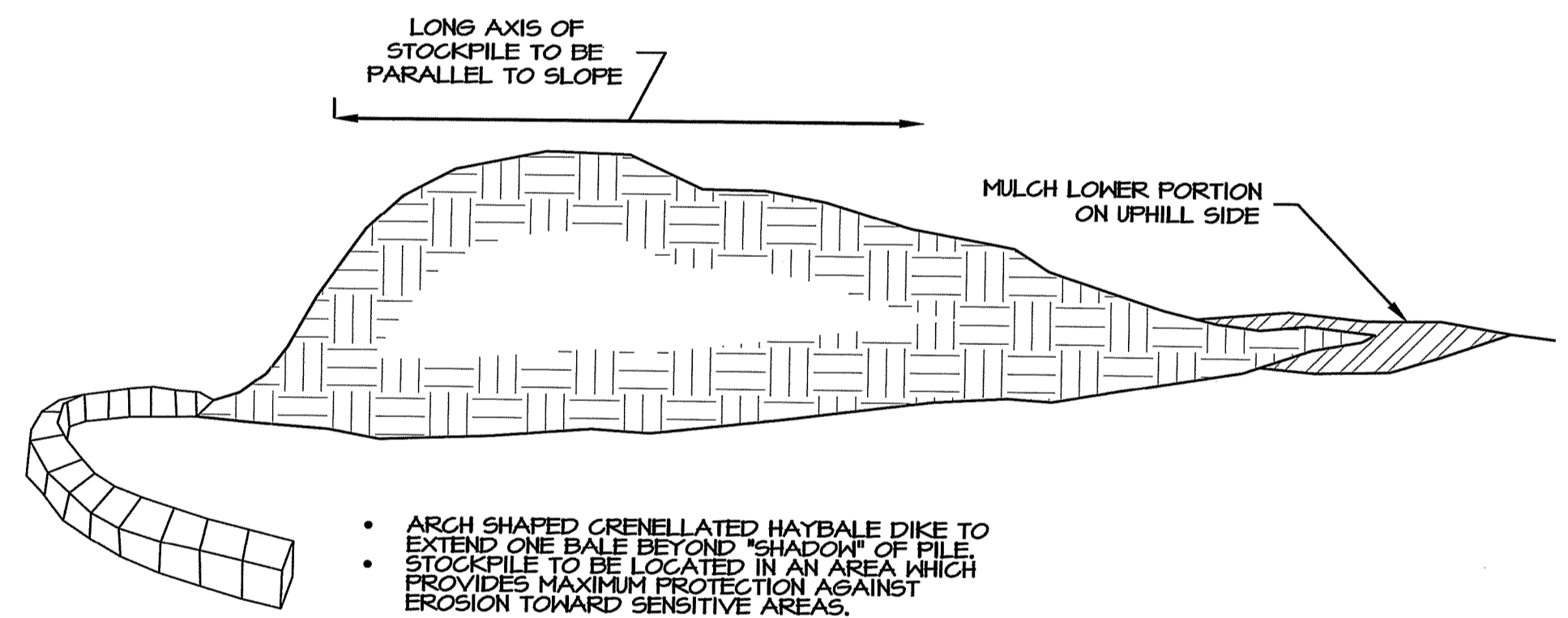
**NOTE:** SILT CONTROL PAD TO BE INSTALLED AND MAINTAINED IN CONFORMANCE WITH STANDARDS SET FORTH IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (1989 EDITION).

**TEMPORARY SILT CONTROL PAD**  
NOT TO SCALE

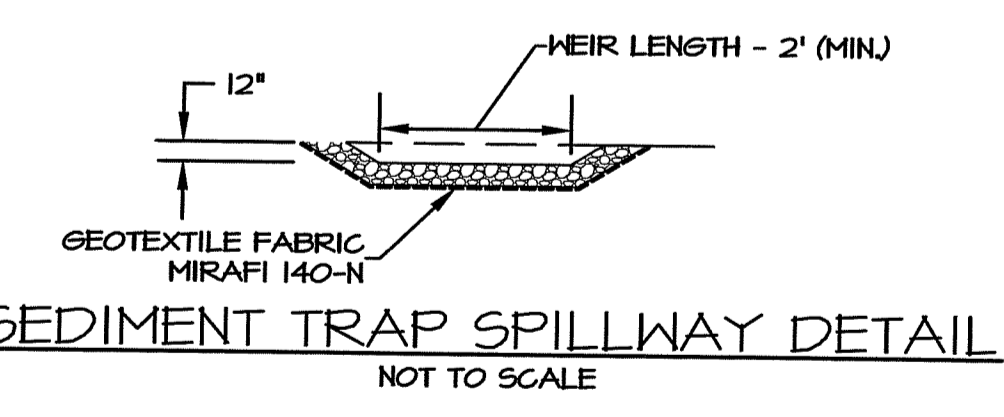


- NOTES:**
- LINER SHEETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  - WASHOUT TO BE LOCATED AT LEAST 50' FROM WETLAND EDGE, OPEN DRAINAGE CHANNELS, DOWNSTREAM GATCH BASINS AND OTHER SENSITIVE AREAS.
  - SOIL BASE SHALL BE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE PLASTIC LINER.
  - PLASTIC LINER MATERIAL SHALL BE A MINIMUM 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

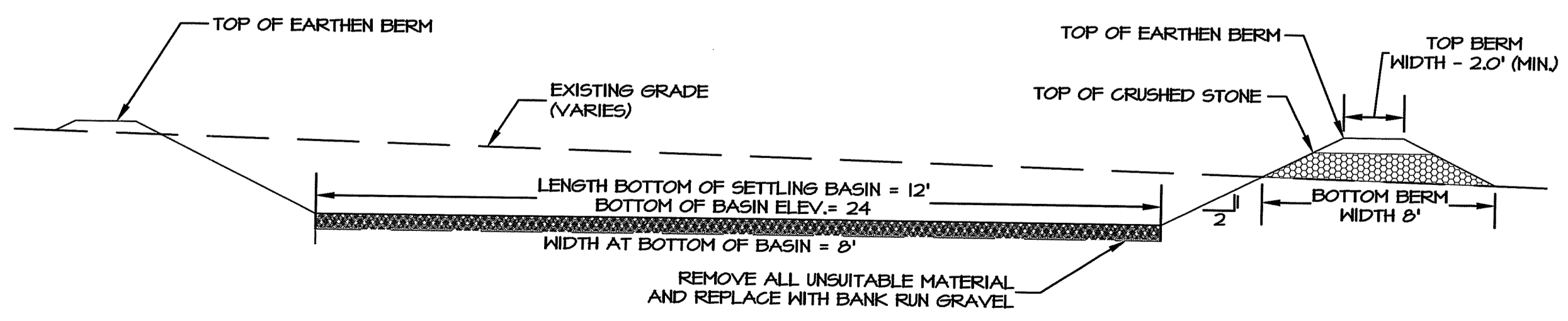
**CONCRETE WASHOUT DETAIL**  
SCALE 1"=4"



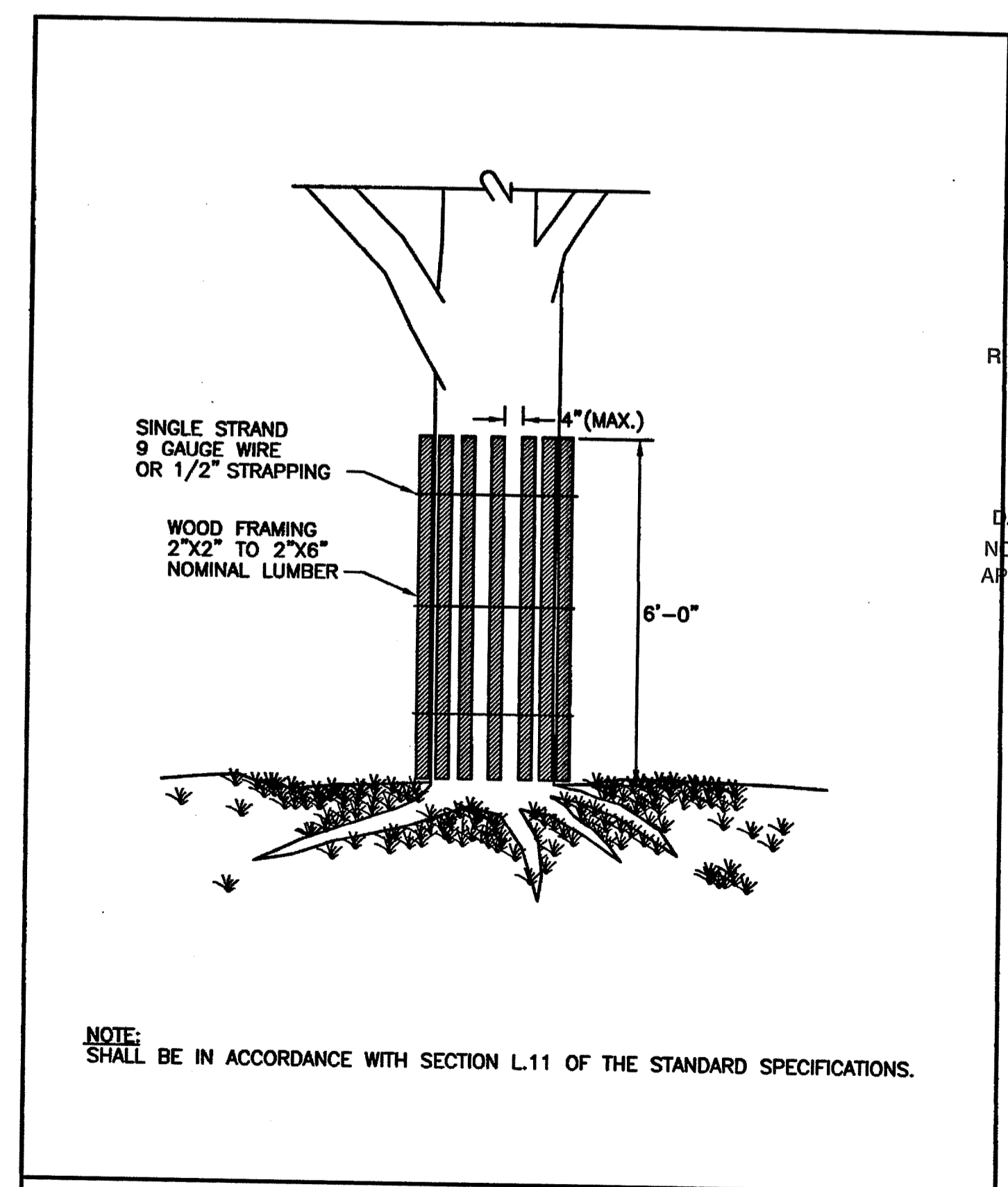
**TEMPORARY STOCKPILE**  
NOT TO SCALE



**SEDIMENT TRAP SPILLWAY DETAIL**  
NOT TO SCALE



**TYPICAL SEDIMENT TRAP DETAILS**  
NOT TO SCALE



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

**TREE PROTECTION DEVICE**

REVISIONS

NO.	BY	DATE

ISSUED FOR PERMIT 8/13/24

R.I. STANDARD 51.1.0

JUNE 15, 1998

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: 06/17/2024 FILE #: 24-033

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL

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**Revision Schedule**

Revision Number	Revision Date

**SHEET TITLE DETAILS**

DRAWN BY: DB JOB NUMBER: 2023026

CHECKED BY: KH DATE: 9-10-24

**C6.1**

SHEET: OF:

KEVIN R. HARROP  
No. 9200  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

**SZ ARCHITECTS**

**Saccoccio & Associates, Inc.**  
1085 Park Avenue Cranston, Rhode Island 02910  
tel 401.942.7970 fax 401.942.7975

Consultant

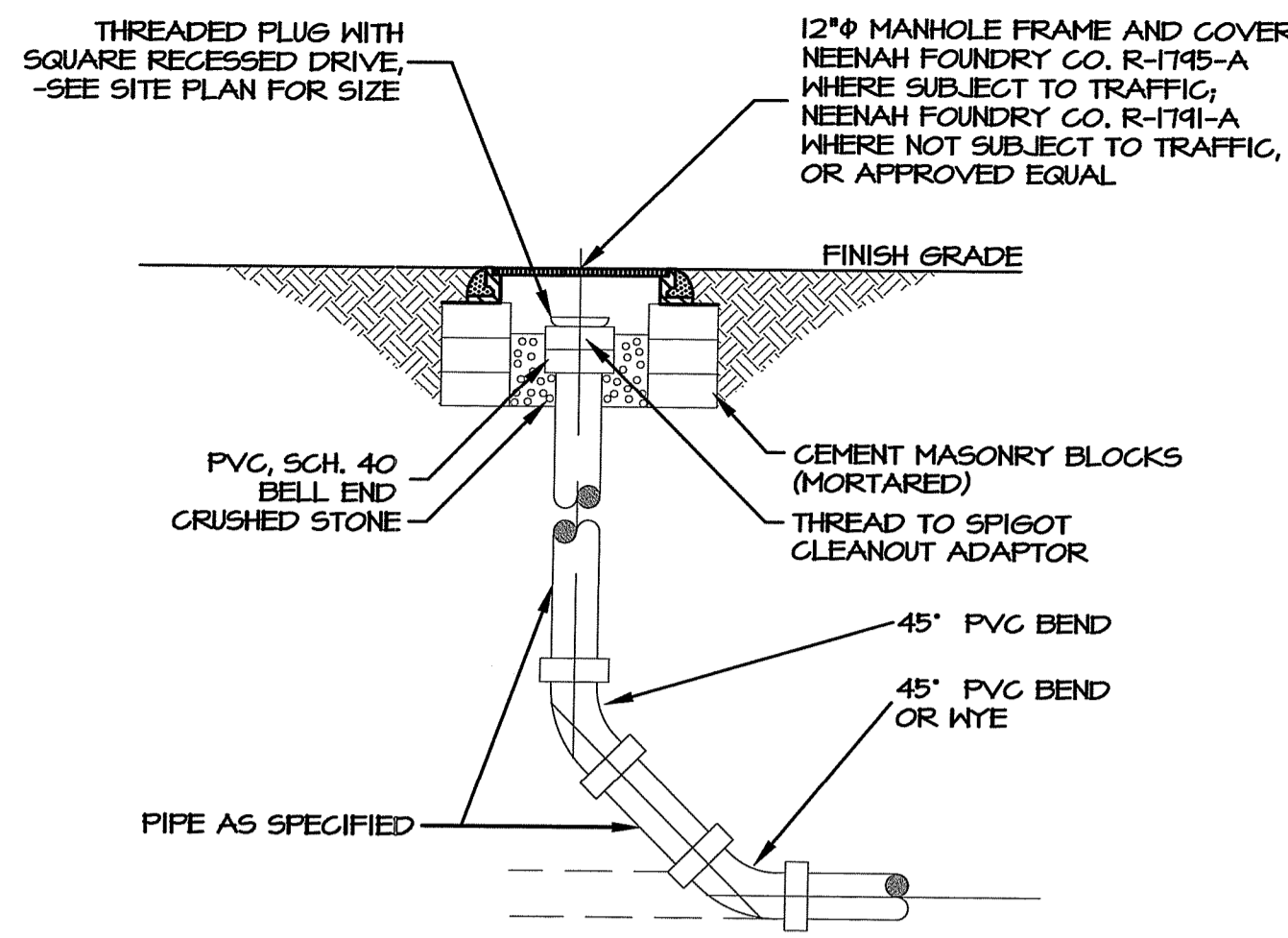
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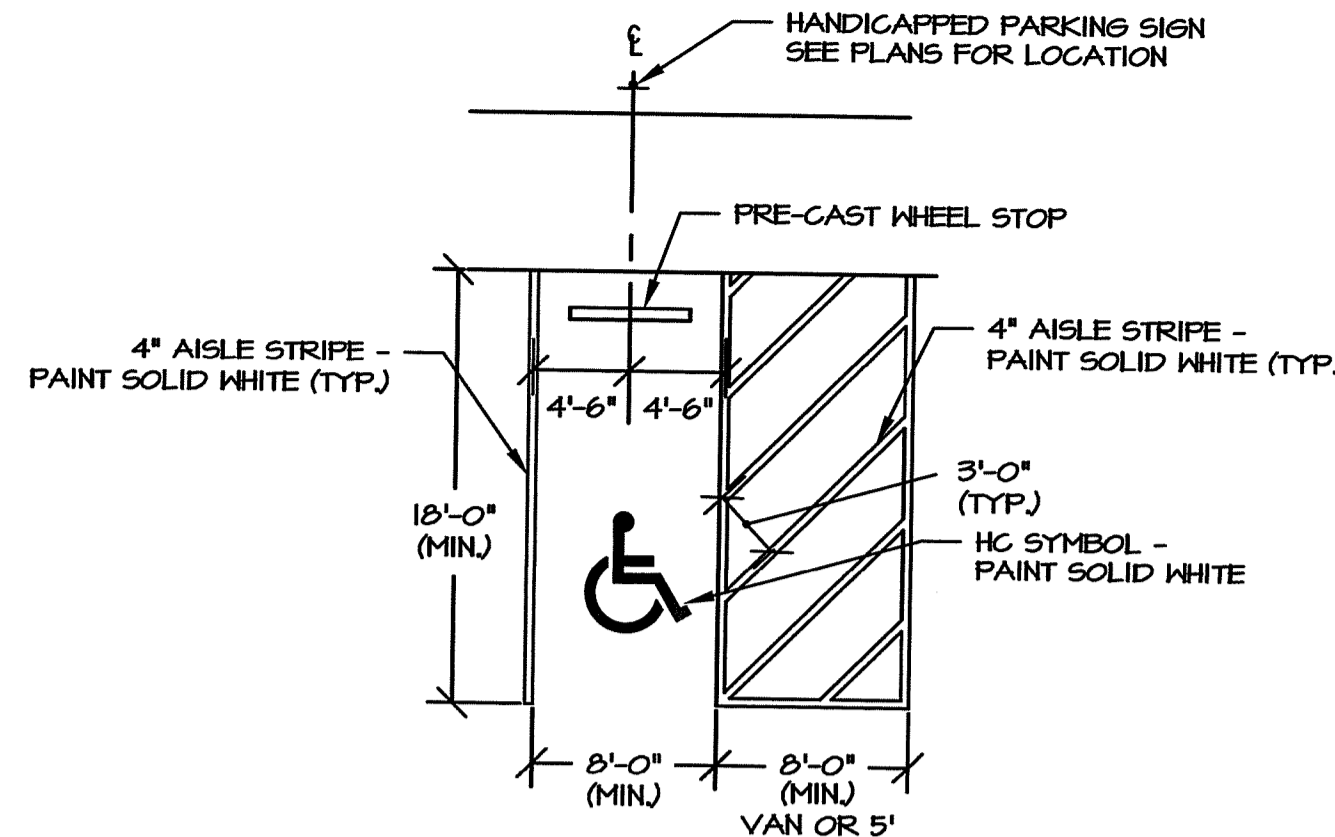
**Budlong Pool**

222 Aqueduct Road  
Cranston, RI 02910



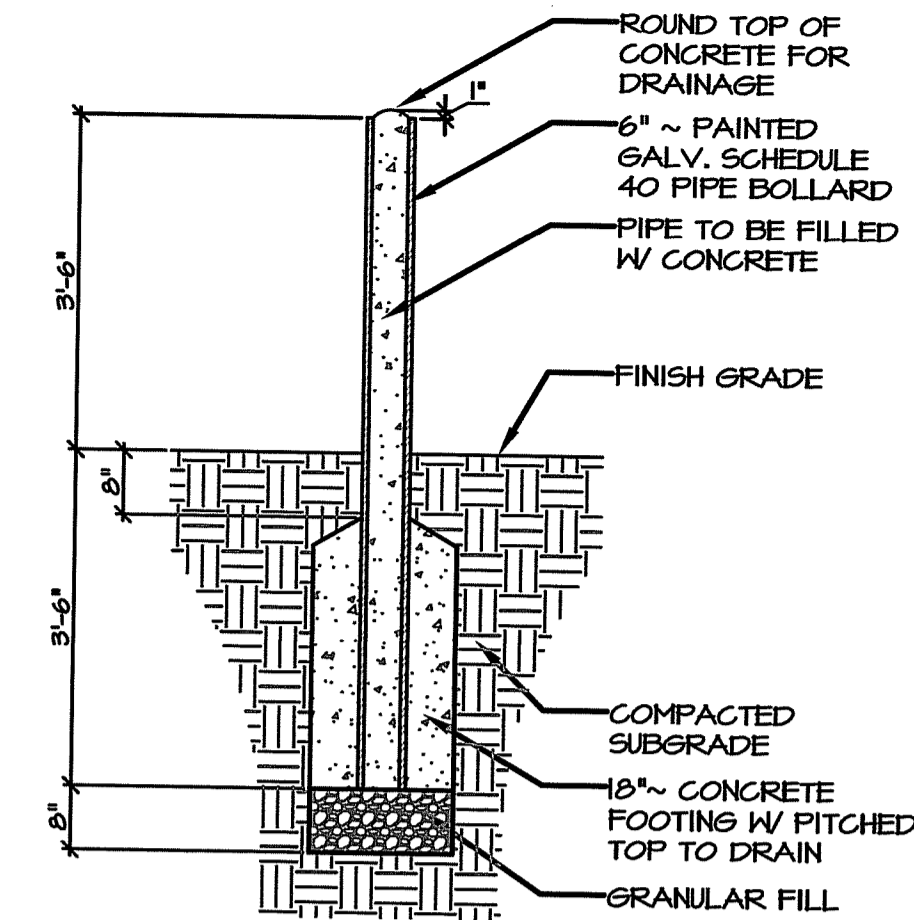
NOTE:  
SEE SITE PLAN FOR PIPE SIZE AND MATERIAL

**DETAIL - CLEANOUT**  
NOT TO SCALE



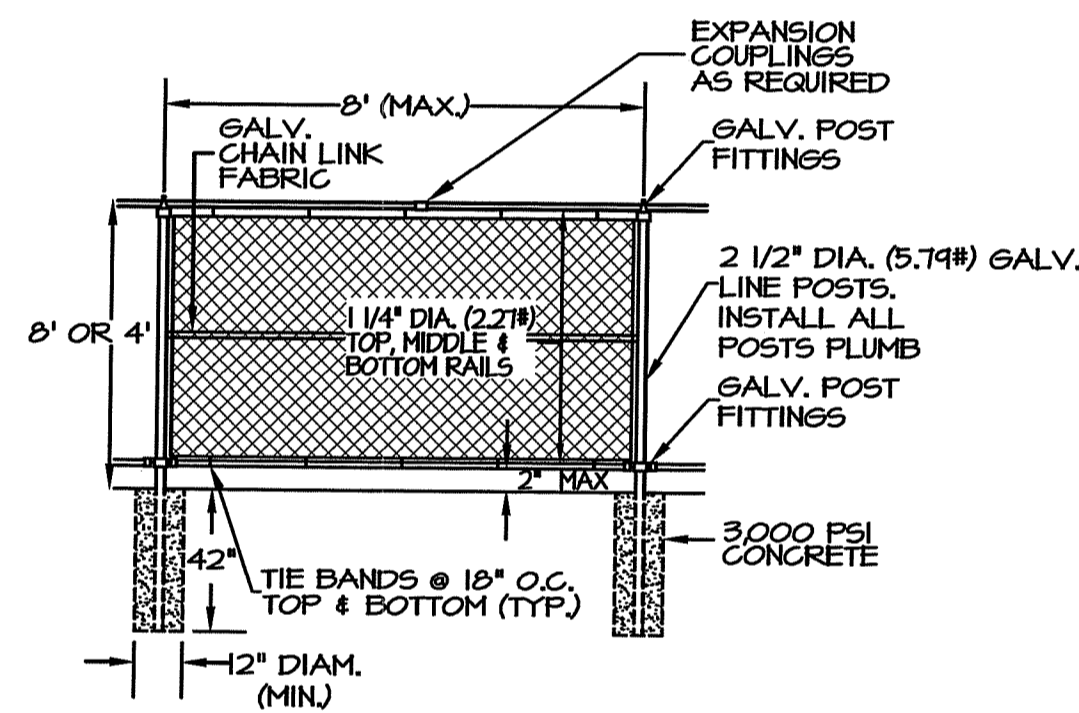
NOTE:  
1. SLOPE OF PAVEMENT AT HANDICAP SPACES SHALL NOT EXCEED 2%  
2. SEE SPECIFICATIONS FOR TYPICAL LINE PAINT FOR ALL PAVEMENT MARKINGS

**PARKING SPACE DETAIL**  
NOT TO SCALE



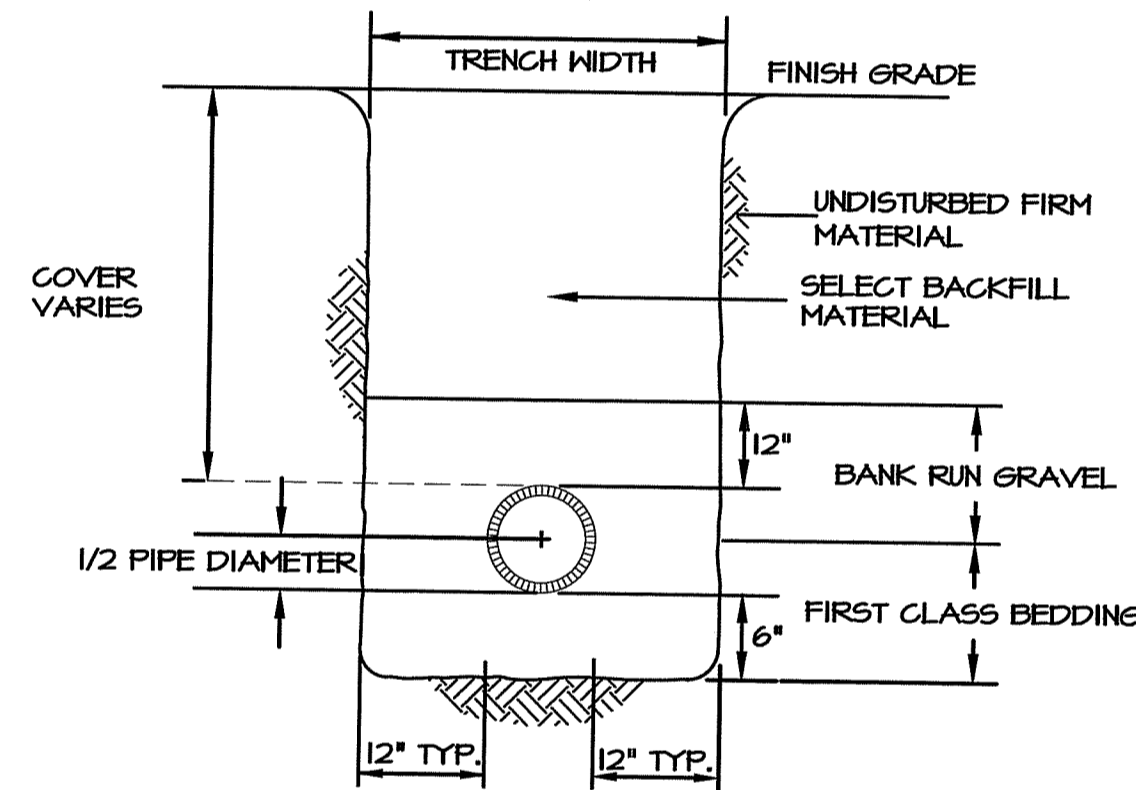
INSTALL BOLLARDS AT EACH SIDE OF OVERHEAD DOORS, BUILDING CORNERS THAT ARE EXPOSED TO TRUCK OR MATERIALS HANDLING TRAFFIC AND OTHER DESIGNATED AREAS.

**CONC. FILLED BOLLARD**  
SCALE: 1/2" = 1'-0"



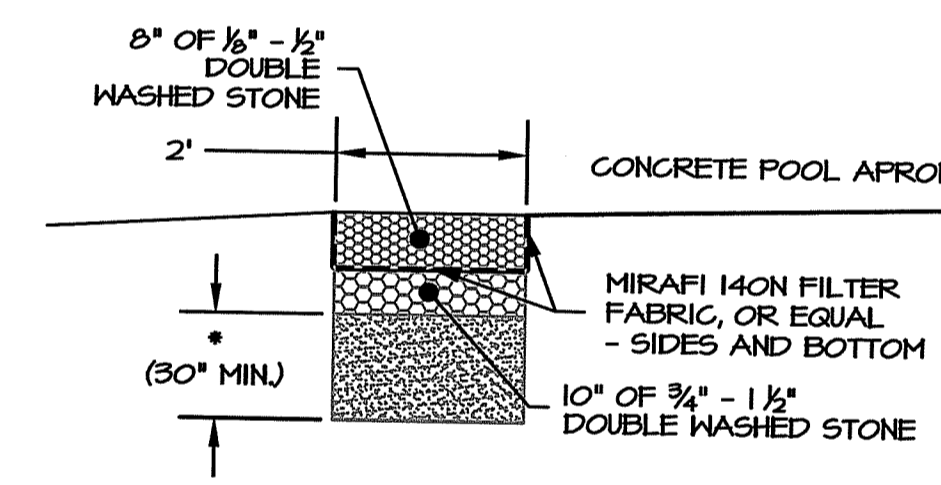
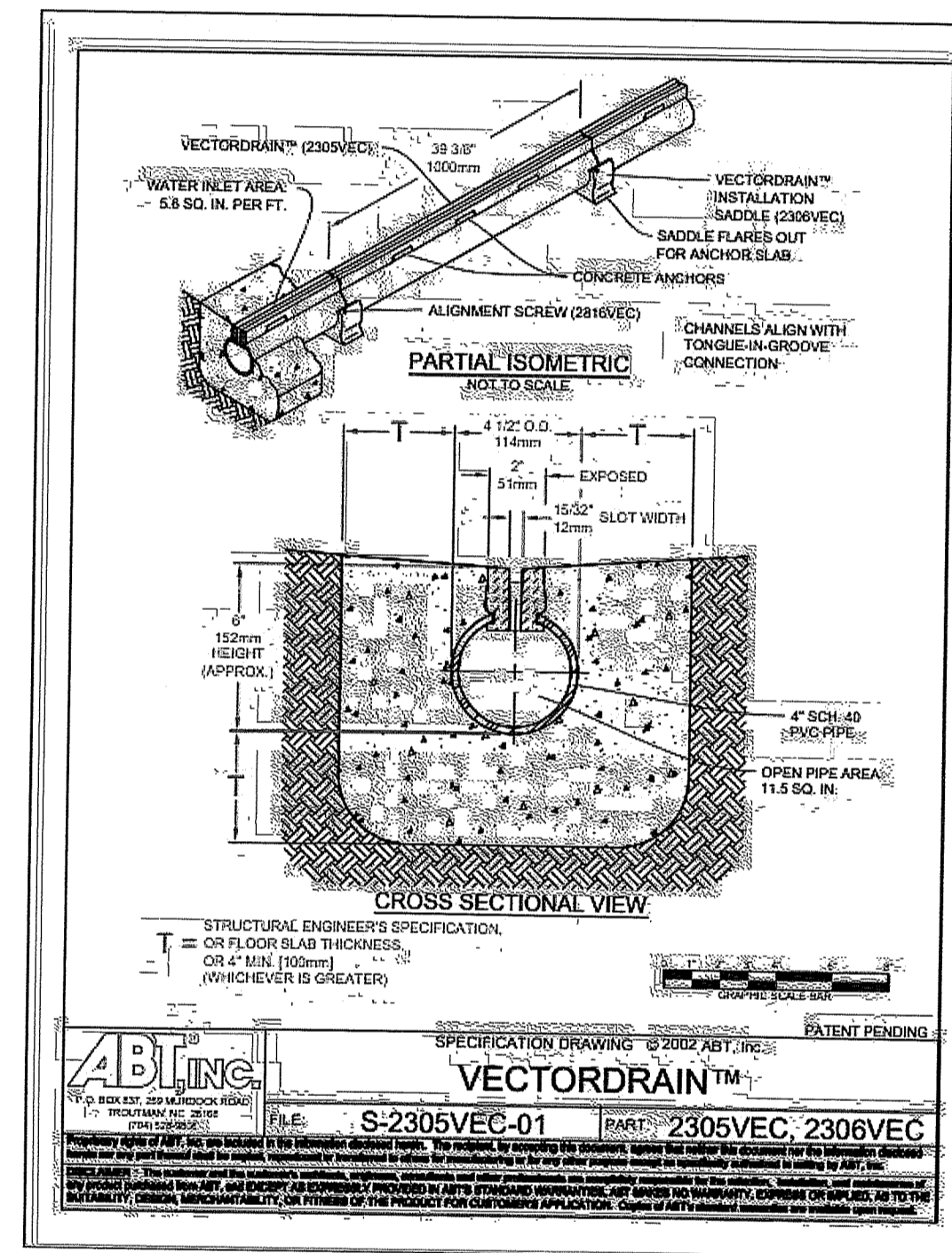
NOTES:  
1. ALL COMPONENTS TO BE VINYL COATED & FINISHED BLACK.  
2. PROVIDE 3" DIA. (1.58") END AND CORNER POSTS WITH 1 1/4" DIA. (2.27") INTERMEDIATE RAIL AND 3/8" TRUSS ROD WITH TURNBUCKLE.  
3. ELIMINATE MIDDLE RAIL FOR 4' FENCE.

**CHAIN LINK FENCE DETAIL**  
NOT TO SCALE



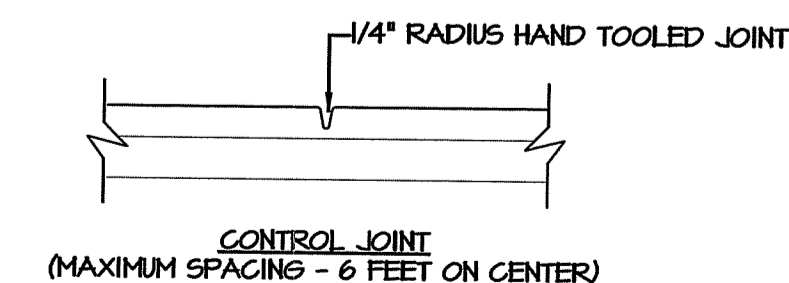
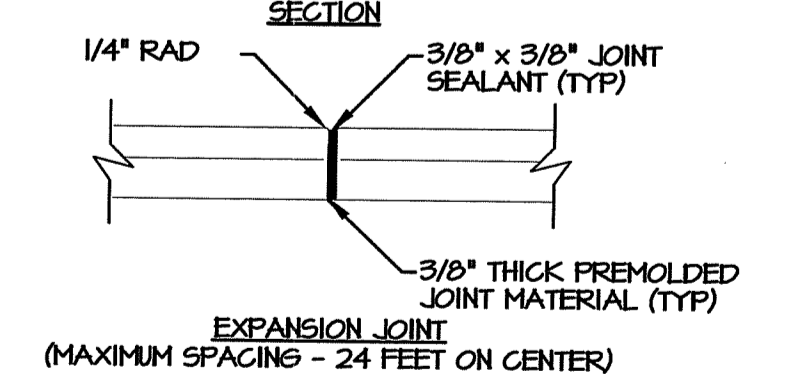
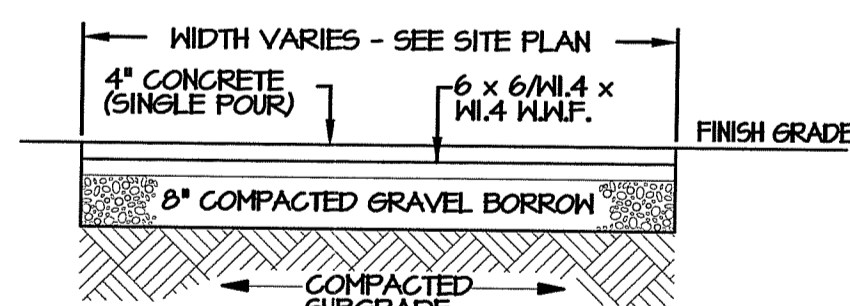
GENERAL NOTES:  
FINISH GRADE MATERIAL VARIES (SEE SITE PLAN). COMPACT BACKFILL IN 8" LIFTS TO 95% OF MAX. DRY DENSITY.

**UTILITY TRENCH DETAIL**  
NOT TO SCALE

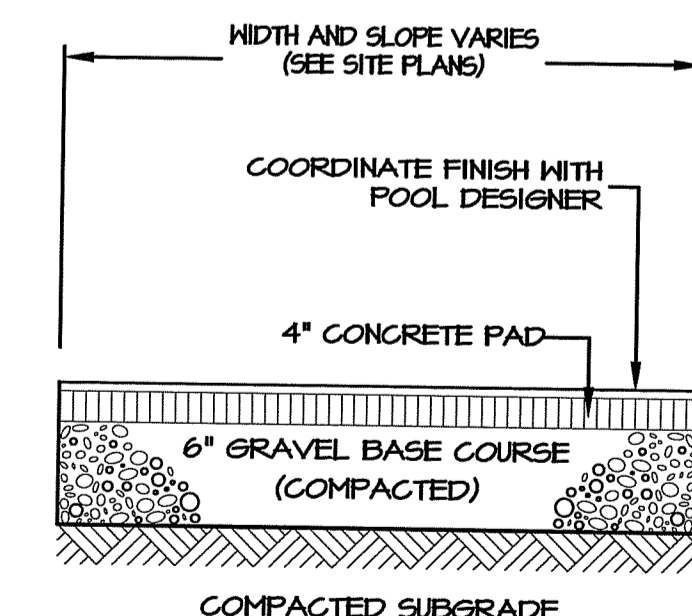


\* - REMOVE ALL TOPSOIL, SUBSOIL AND UNSUITABLE MATERIAL WITHIN LIMITS OF GRAVEL DIAPHRAGM. REPLACE WITH BANK RUN GRAVEL CONTAINING LITTLE TO NO FINES TO WITHIN 12" OF FINISHED GRADE. GRADE TOWARDS INFILTRATION BASIN  
SEE PLANS FOR LOCATIONS AND FINISHED GRADES

**GRAVEL DIAPHRAGM DETAIL**  
NOT TO SCALE

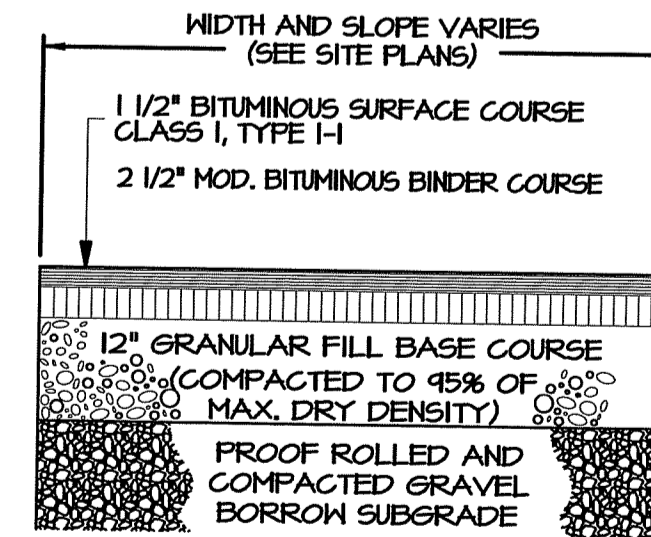


**CONCRETE PAD DETAIL**  
NOT TO SCALE



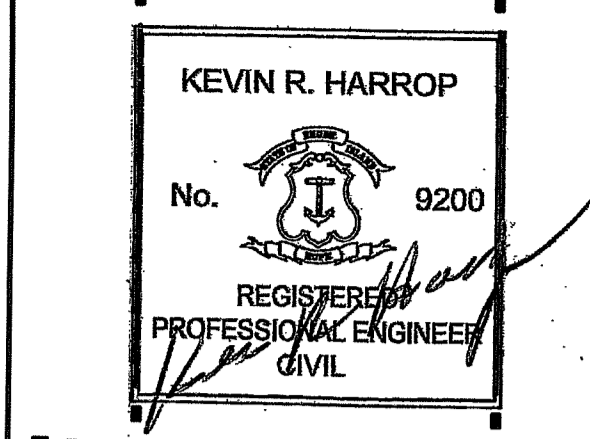
NOTES:  
1) ALL PAVEMENT, GRAVEL AND GRANULAR FILL TO CONFORM WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION  
2) ALL LOAM, TOPSOIL, SUBSOIL, ROOTS, ROCK OR ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM WITHIN OF LIMITS OF PAVEMENT. INSTALL CLEAN, GRANULAR FILL PLACED IN 12" MAXIMUM LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY.

**POOL APRON SURFACE DETAIL**  
NOT TO SCALE



NOTES:  
1. ALL PAVEMENT, GRAVEL AND GRANULAR FILL TO CONFORM WITH RIDOT STANDARDS AND INSTALLATION REQUIREMENTS.  
2. ALL LOAM, TOPSOIL, SUBSOIL, ROOTS, ROCK OR ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM WITHIN OF LIMITS OF PAVEMENT. INSTALL CLEAN, GRANULAR FILL PLACED IN 12" MAXIMUM LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY.  
3. INCREASE GRAVEL BASE DEPTH TO 24" IN AREAS WHERE ROCK IS PRESENT.

**BITUMINOUS CONCRETE PAVEMENT DETAIL**  
NOT TO SCALE



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**Budlong Pool**

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Revision Schedule	
Revision Number	Revision Date

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8/13/24

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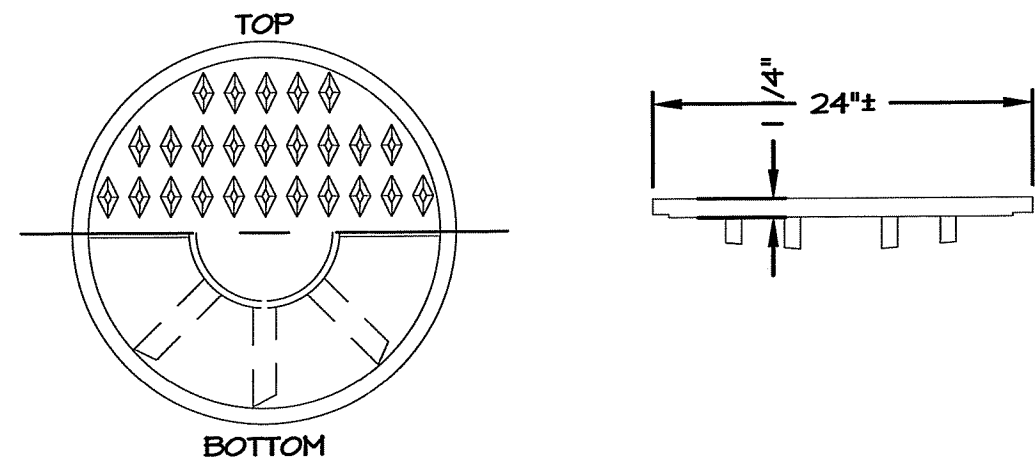
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OFFICE OF WATER RESOURCES  
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DATED: OCT 17 2024 FILE #: 24-0233  
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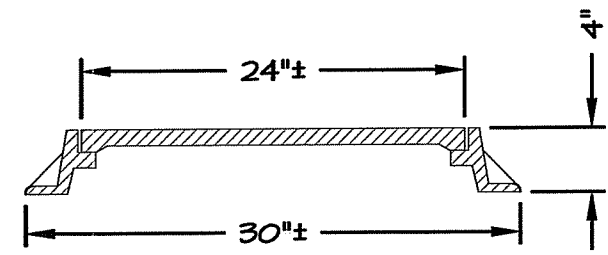
**C6.2**

SHEET: OF:

J:\Rhodesland\CranstonAqueduct\Road\2023026 RI Cranston Aqueduct\Budlong 2 RIDEM.dwg



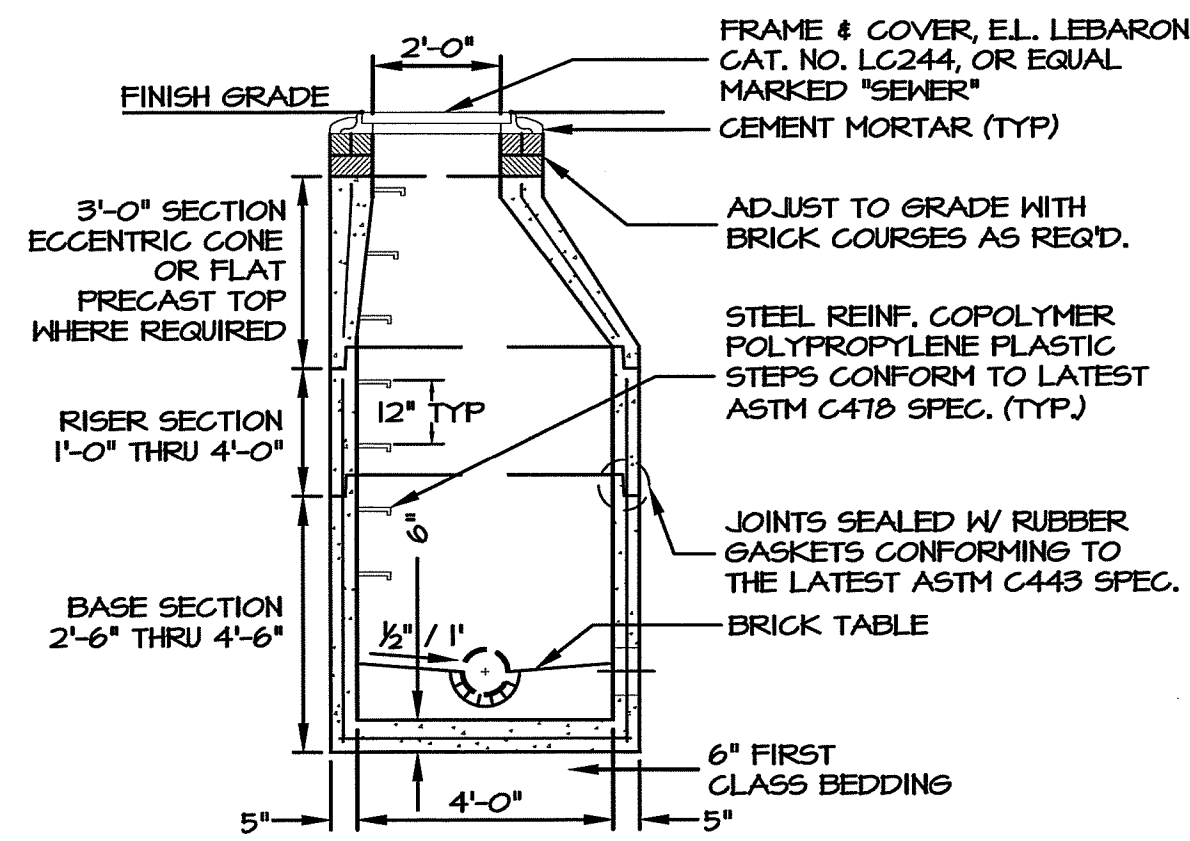
TYPICAL COVER



TYPICAL FRAME AND COVER SECTION

**ROUND MANHOLE FRAME AND COVER  
(HEAVY DUTY)**

NEENAH R-1706-1 OR EQUAL  
NOT TO SCALE



**GENERAL NOTES:**

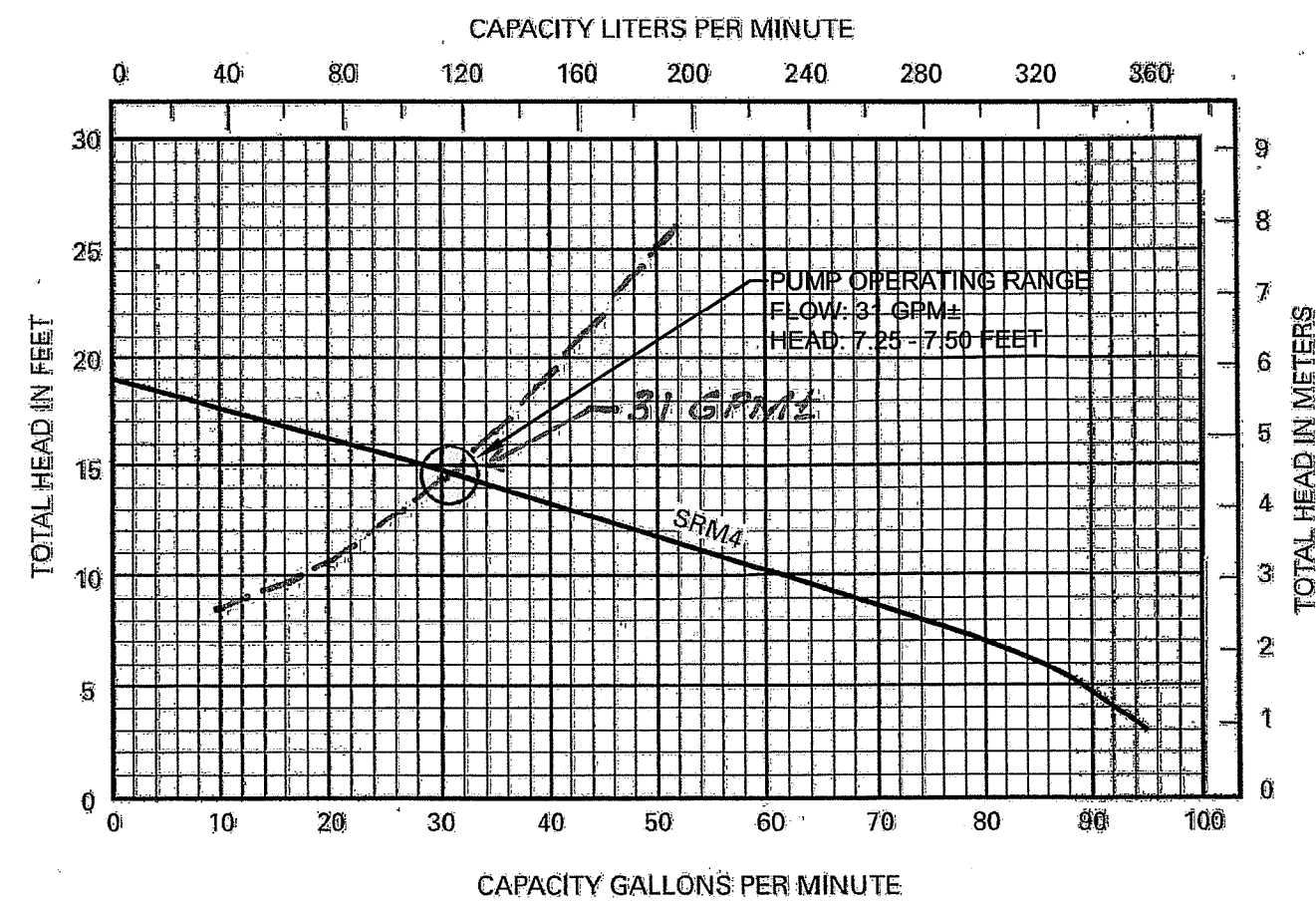
1. REIN. STEEL TO CONFORM WITH LATEST ASTM A 105.
2. PRECAST CONCRETE TO CONFORM WITH ASTM C478 FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
3. CONCRETE COMPRESSIVE STRENGTH - 4000 PSI MINIMUM.

**SANITARY MANHOLE DETAIL**

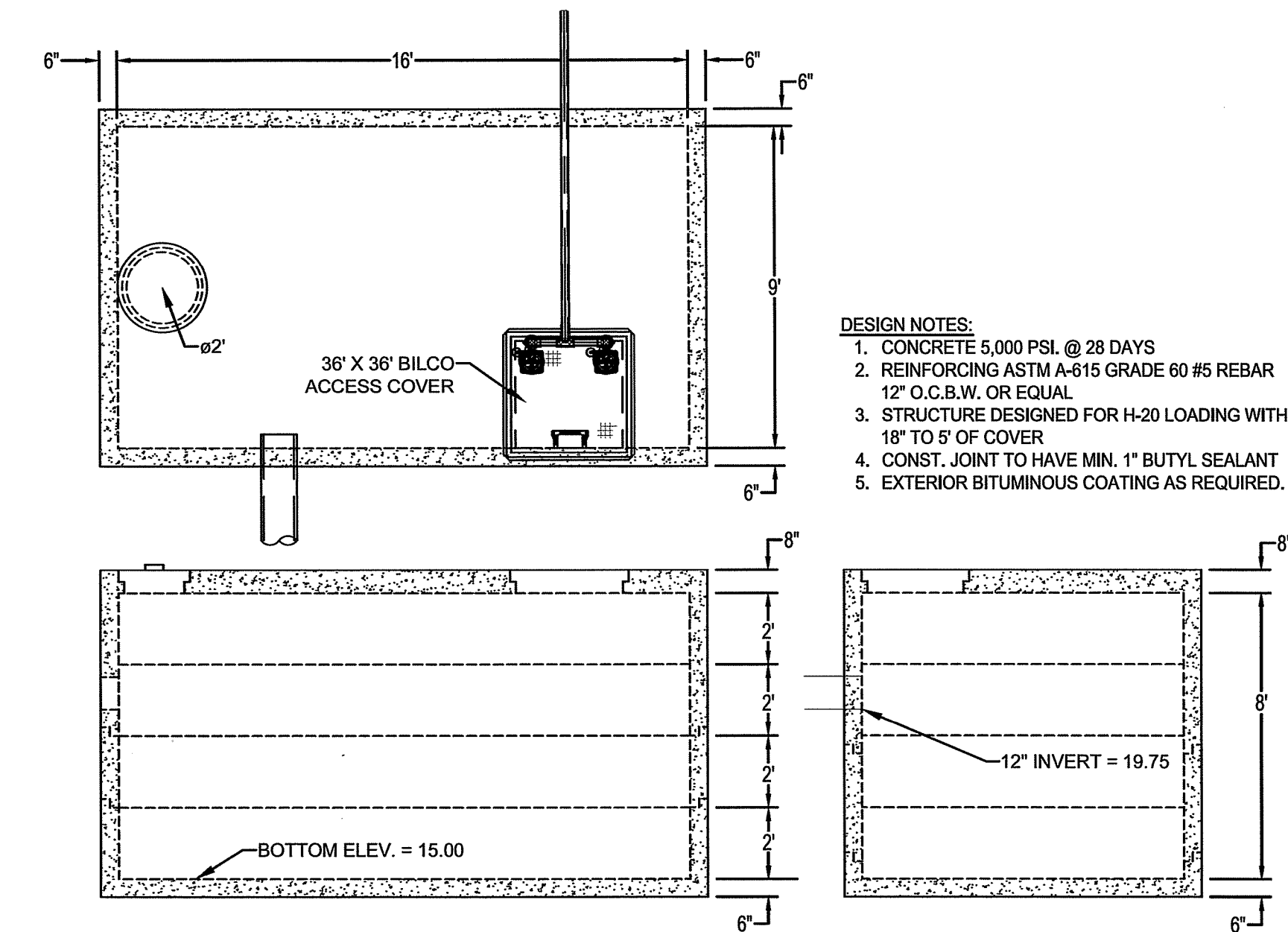
NOT TO SCALE

**PUMPING NOTES:**

1. EQUIPMENT FROM OTHER MANUFACTURER'S MAY BE USED IF EQUAL APPROVAL FOR ALTERNATE EQUIPMENT REQUIRED FROM ENGINEER PRIOR TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY CONTRACTOR.
2. CONTROL PANEL AND ALARM TO BE MOUNTED IN PUMP BUILDING AT A CONSPICUOUS LOCATION.
3. FLOATS ARE TO BE SET TO SPECIFIED ELEVATIONS AND FIELD VERIFIED.
4. THE PUMP CHAMBER DOSING CONTROLS SHALL BE FIELD TESTED IN THE PRESENCE OF THE DESIGN ENGINEER. ADJUSTMENT TO CONTROLS ARE THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR MUST MAKE WATER AVAILABLE FOR TESTING OF THE CONTROL FLOATS.
5. ELECTRICAL CONNECTIONS ARE TO BE INSTALLED OUTSIDE PUMP CHAMBER IN SEPARATE HAND HOLE WITH ACCESS FRAME AND COVER TO GRADE MEETING H-20-44 LOADING REQUIREMENTS.
6. JUNCTION BOX IN HAND HOLE TO HAVE SHUT-OFF SWITCH.



**PUMP CURVE: MYERS SRM4**

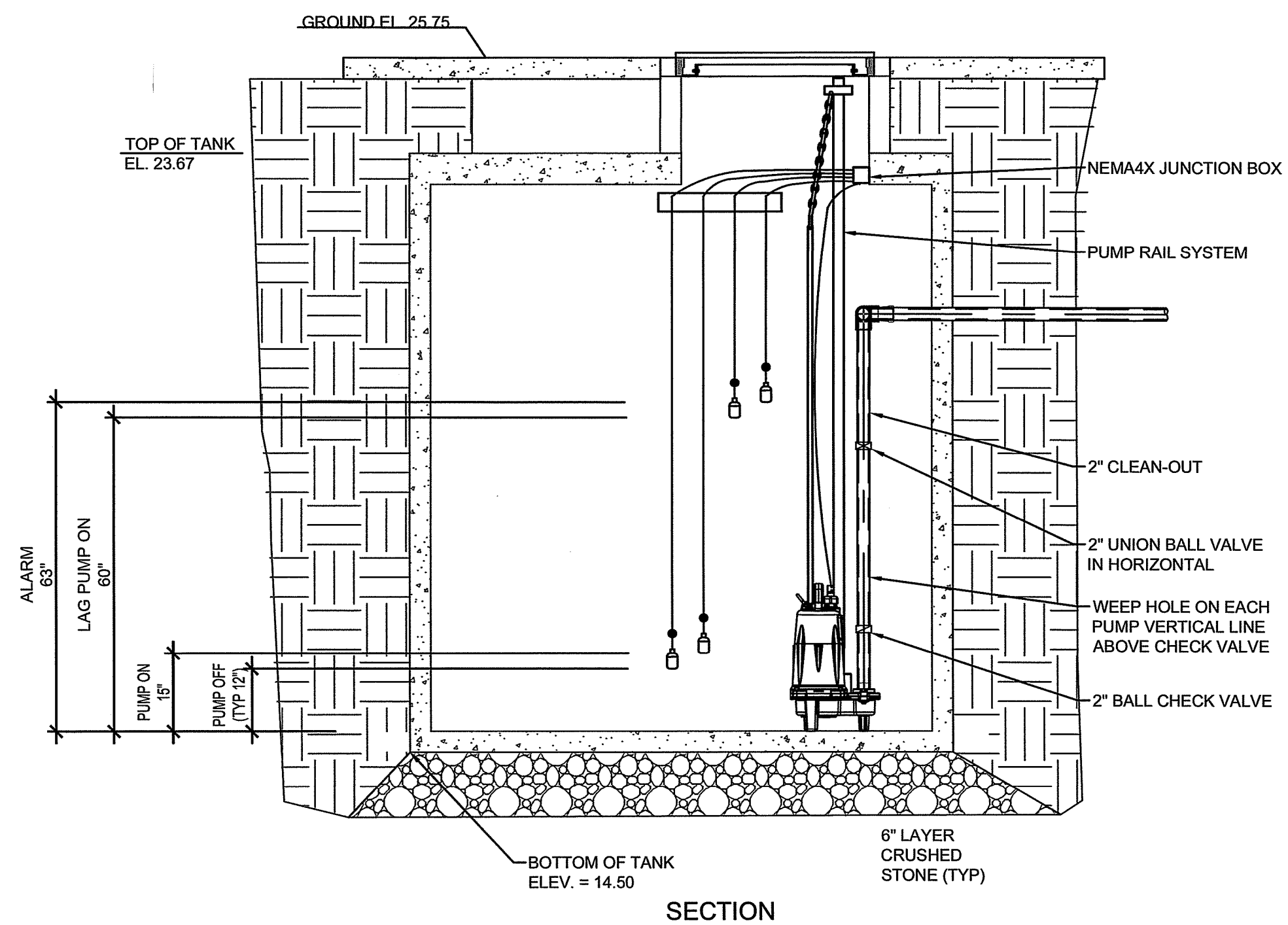


**DESIGN NOTES:**

1. CONCRETE 5,000 PSI @ 28 DAYS
2. REINFORCING ASTM A-615 GRADE 60 #5 REBAR 12" O.C.B.W. OR EQUAL
3. STRUCTURE DESIGNED FOR H-20 LOADING WITH 18" TO 5' OF COVER
4. CONST. JOINT TO HAVE MIN. 1" BUTYL SEALANT
5. EXTERIOR BITUMINOUS COATING AS REQUIRED.

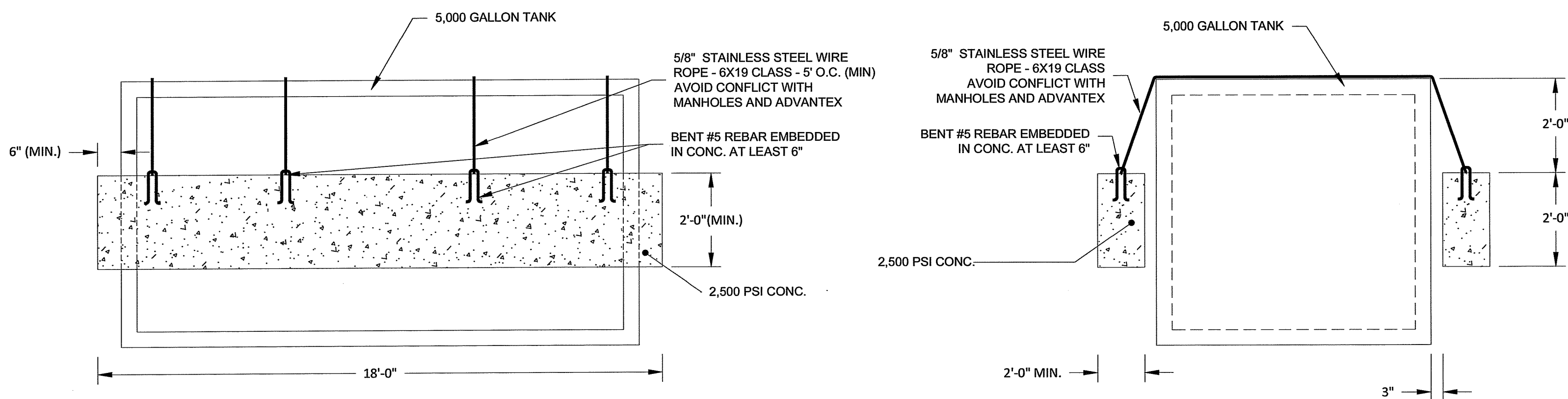
**BACKWASH HOLDING TANK / PUMP CHAMBER**

SCALE 1" = 4'



**BACKWASH HOLDING TANK PUMP DETAILS**

SCALE 1/2" = 1'



**COUNTER WEIGHT: TANK ANTI-FLOATATION SECTIONS**

SCALE 1" = 2'



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Cranston, Rhode Island fax 401.942.7975  
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**Budlong Pool**

222 Aqueduct Road  
Cranston, RI 02910

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8/13/24

**SHEET TITLE  
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**C6.3**

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