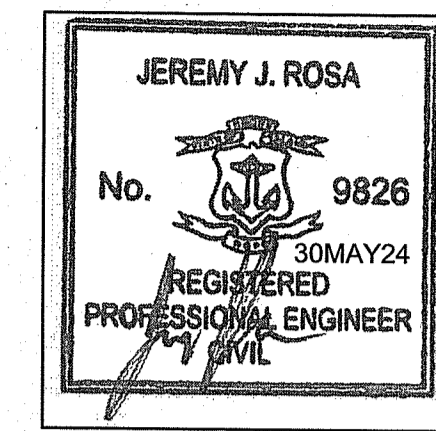
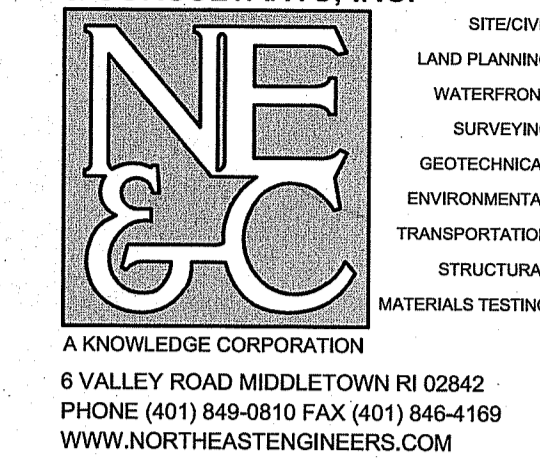


# VALLEY CROSSING II

PROPOSED 10,000 SF OFFICE BUILDING  
 ASSESSOR'S PLAT 107NE LOT 402C  
 VALLEY ROAD  
 MIDDLETOWN, RHODE ISLAND

CIVIL ENGINEER:

NORTHEAST ENGINEERS  
 & CONSULTANTS, INC.



OWNER:

JAMES H. CLAUSEN  
 REVOCABLE TRUST  
 7067 VILLA ESTELLE DRIVE  
 ORLANDO, FL 32819

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: JUN 13 2024 FILE #: 22-0254  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

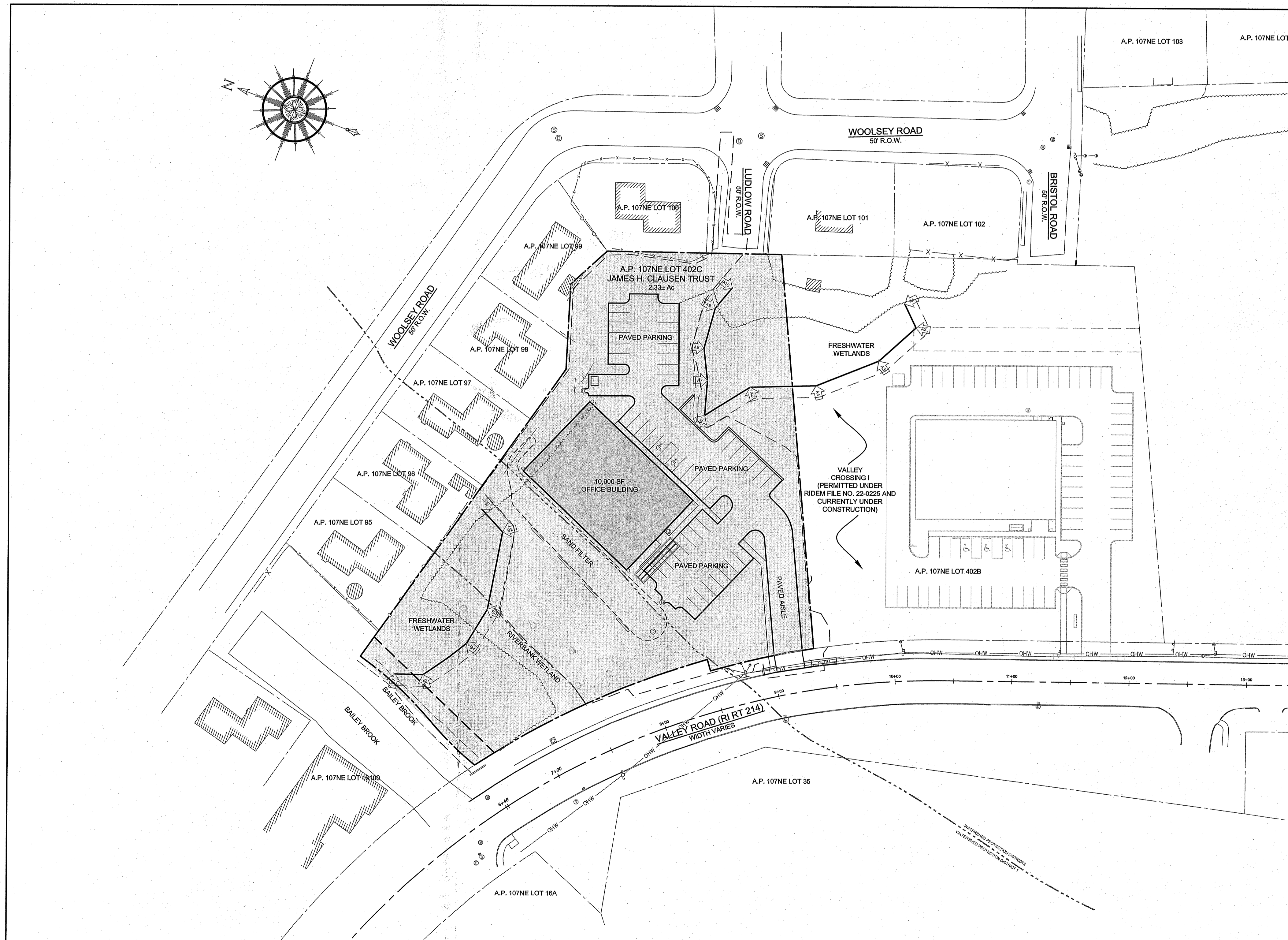
## MAY 30, 2024 PERMIT SET

### PLAN INDEX

#### SITE/CIVIL ENGINEERING PLANS

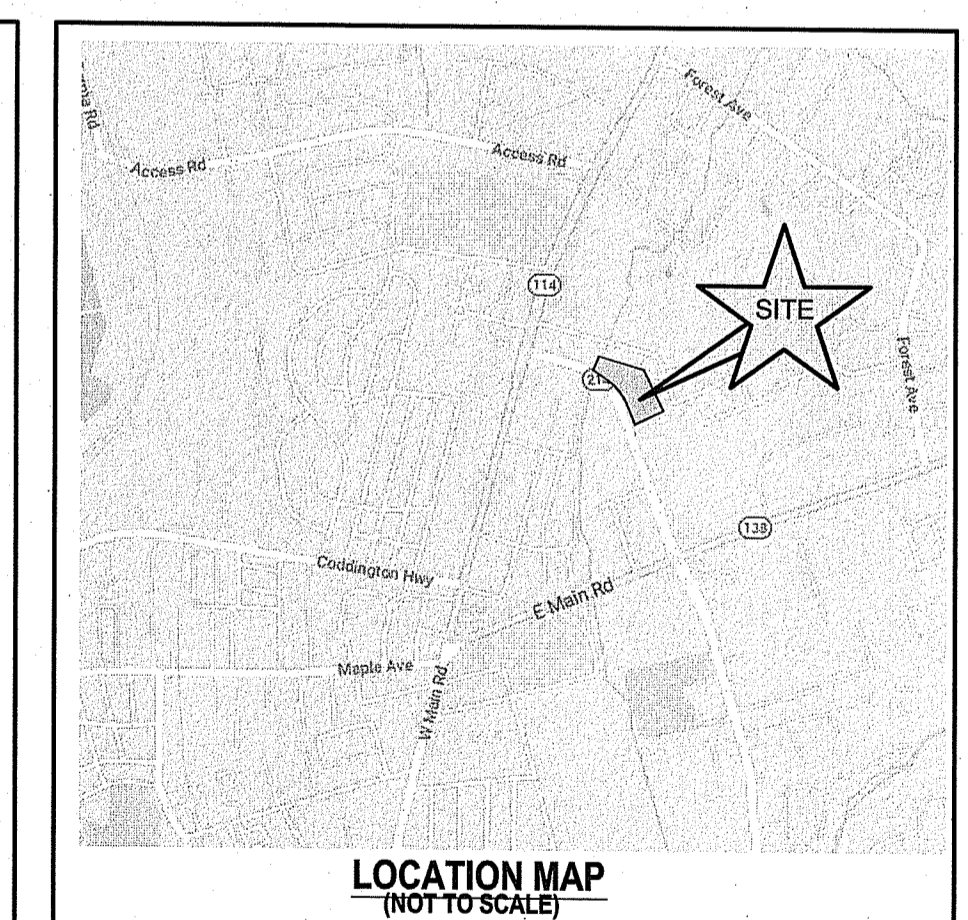
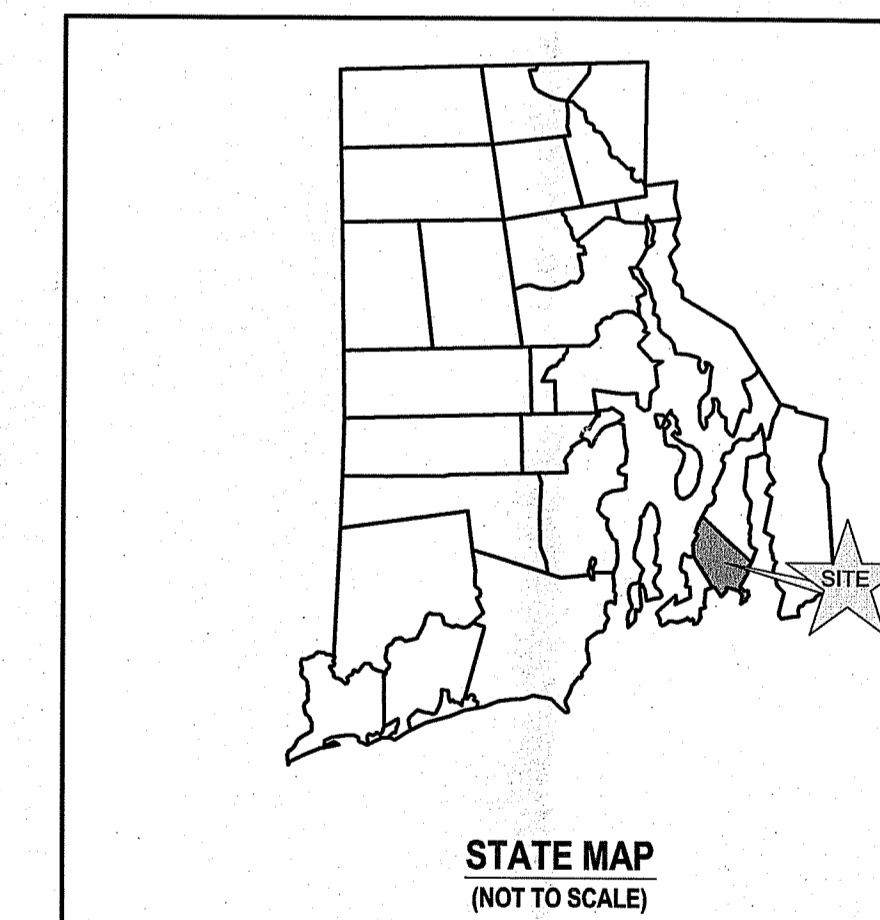
- TITLE SHEET
- PROJECT NOTES
- EXISTING CONDITIONS
- PROPOSED LAYOUT AND UTILITY PLAN
- PROPOSED GRADING AND DRAINAGE PLAN
- PROPOSED SOIL EROSION AND SEDIMENT CONTROL PLAN
- PROPOSED DETAILS

- SHEET 1
- SHEET 2
- SHEET 3
- SHEET 4
- SHEET 5
- SHEET 6
- SHEETS 7-9



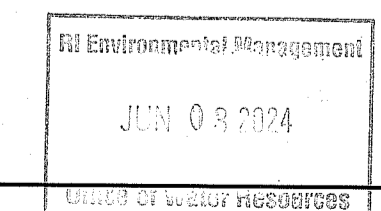
### SITE PLAN

SCALE = 1"=50'



#### SUBMISSION AND REVISION SUMMARY

AGENCY OR REVISION	DATE:	COMMENTS:
RIDEM	JUN 21, 2022	RIPDES, FWW WETLANDS
RIDEM	JUN 15, 2023	RIPDES, FWW WETLANDS RESPONSE TO COMMENTS
RIDEM	MAY 7, 2024	RIPDES, FWW WETLANDS RESPONSE TO COMMENTS
RIDEM	MAY 30, 2024	RIPDES, FWW WETLANDS RESPONSE TO COMMENTS



GENERAL NOTES

- 1. EXISTING CONDITIONS AND PROPERTY LINE SURVEY (SHEET 3) TAKEN FROM "HAPPY VALLEY SUBDIVISION, 3 LOT COMMERCIAL SUBDIVISION, ASSESSORS PLAT 107NE LOT 402, VALLEY ROAD (RI RT 214), MIDDLETOWN, RHODE ISLAND, MARCH 11, 2021 PERMIT SET, SHEETS L-1 THROUGH L-5, THE APPROVED FINAL SUBMISSION SET FOR THIS DEVELOPMENT. THE BOUNDARY PLANS OF SURVEY WITHIN THIS SET ARE COMPREHENSIVE, CLASS 1, DOCUMENTS PREPARED BY NORTHEAST ENGINEERS & CONSULTANTS, INC. CERTIFIED IN APRIL OF 2021.

GRADING NOTES

- 1. ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT RUNOFF FROM LEAVING THE SITE.

UTILITY NOTES

- 1. THE LOCATION OF PROPOSED ELECTRICAL CONNECTION TO THE OVERHEAD SERVICES ALONG VALLEY ROAD ARE PRELIMINARY. FINAL DESIGN OF THE ELECTRICAL SERVICE IS SUBJECT TO DESIGN REVIEW AND APPROVAL OF NATIONAL GRID.

SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. CONSTRUCTION SEQUENCE:
A. DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED. THIS INCLUDES ALL PERMITS FROM APPLICABLE UTILITIES.

PERMANENT MEASURES:

- A. SLOPES SHALL NOT BE STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL UNLESS OTHERWISE SPECIFIED.
B. LOAM AND SEED REQUIREMENTS ARE SPECIFIED IN RIDOT L01 & L02.
C. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED. THE LOAM SHALL BE GRADED TO A SMOOTH CONDITION AND STONES AND OTHER OBJECTS LARGER THAN 2 INCHES SHALL BE REMOVED.

DRAINAGE NOTES

- 1. ALL DRAIN PIPES SHALL BE ADS-N12 TYPE IB OR SCH80 PVC AS SHOWN ON SITE PLANS. BOX CULVERTS UNDER DRIVEWAY SHALL BE RCPV.

PUBLIC HEALTH SAFETY AND CONVENIENCE NOTES

- 1. CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.

STORMWATER MAINTENANCE NOTES

GENERAL INSPECTIONS SHALL BE CONDUCTED ON A MONTHLY BASIS AND AFTER STORM EVENTS GREATER THAN OR EQUAL TO THE 1-YEAR, 24-HOUR TYPE II PRECIPITATION EVENT (2.8 INCHES). THE MAINTENANCE OBJECTIVES FOR THIS DEVICE INCLUDE MONITORING THE COLLECTED SEDIMENT VOLUME AND MAINTAINING STRUCTURAL INTEGRITY.

SAND FILTER MAINTENANCE:

- 1. GRASSES AND/OR SPECIFIED VEGETATION SHALL BE PLANTED AROUND AND WITHIN THE SAND FILTER IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE SLOPES AND PREVENT EROSION.

SUBSURFACE CHAMBERS:

- 1. SUBSURFACE INFILTRATION CHAMBERS (STORMTECH SC310 UNITS) SHALL BE INSPECTED VIA INSPECTION PORTS AND DRAIN BASINS ANNUALLY FOR THE PRESENCE OF SEDIMENTS OR EVERY SIX (6) MONTHS FOR THE FIRST YEAR OF OPERATION.

DRAIN MANHOLE / RAIN GUARDIAN DEVICES:

- 1. THE SUMP OF A THE STRUCTURES SHALL BE INSPECTED FOR THE PRESENCE OF DEBRIS OR SEDIMENTS. SHOULD THE DEPTH OF MATERIAL WITHIN THE SUMP EXCEED 50% OF THE TOTAL SUMP DEPTH, THE SEDIMENTS SHALL BE REMOVED VIA A VACUUM TRUCK.

WET SWALE:

- 1. THE SIDE SLOPES OF A SWALE SHALL BE INSPECTED FOR EROSION AND GULLYING. REINFORCE EXISTING GRASS PLANTINGS IF FOUND TO BE DEFICIENT, EROSION IS PRESENT, OR THE CHANNEL HAS BEEN COMPROMISED.

TRENCH DRAIN:

- 1. THE BOTTOM OF THE TRENCH SHALL BE INSPECTED FOR THE PRESENCE OF DEBRIS OR SEDIMENTS. SHOULD THE DEPTH OF MATERIAL WITHIN THE TRENCH EXCEED 50% OF THE TOTAL TRENCH DEPTH, THE SEDIMENTS SHALL BE REMOVED BY HAND. ALL MATERIAL REMOVED DISPOSED OF IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

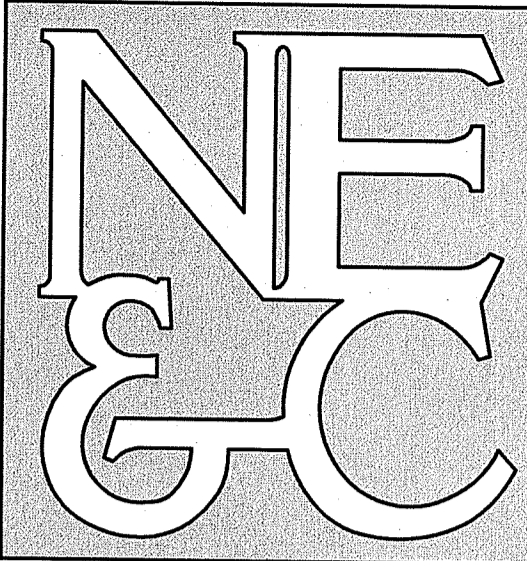
GENERAL NOTES:

- 1. MAINTENANCE OF THE STORMWATER SYSTEM DURING CONSTRUCTION OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

BAILEY BROOK RECEIVING WATER CONDITIONS TABLE:

Table with 2 columns: NAME and BAILEY'S BROOK. Rows include STREAM ORDER (02), WATERBODY ID (R107035R-01), WB DESCRIPTION (BAILEY'S BROOK AND TRIBUTARIES), IMPAIRMENTS (ENTEROCOCCUS; PHOSPHOROUS; LEAD), WATER QUALITY STANDARD (AA), SRPW CATEGORY (WARM), FISHERY TYPE (DRINKING WATER SUPPLY), SRPW (YES), and STORMWATER POT. IMPAIR. (YES).

NORTHEAST ENGINEERS & CONSULTANTS, INC.



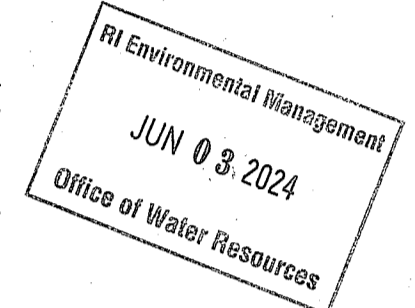
A KNOWLEDGE CORPORATION

6 VALLEY ROAD MIDDLETOWN RHODE ISLAND 02842
PHONE (401) 849-0810 FAX (401) 846-4169
WWW.NORTHEASTENGINEERS.COM

- SITE/CIVIL
LAND PLANNING
WATERFRONT SURVEYING
GEOTECHNICAL
ENVIRONMENTAL
TRANSPORTATION
STRUCTURAL

TOWN OF MIDDLETOWN ZONING DATA:

Table with 2 columns: ZONING DISTRICT and LBA (TRAFFIC SENSITIVE LIMITED BUSINESS). Rows include MINIMUM LOT AREA (20,000 SQ. FT.), MINIMUM LOT WIDTH (300 FEET), MINIMUM BUILDING SETBACK (FRONT YARD 10 FEET, SIDE YARD 20 FEET, REAR YARD 50 FEET), MAXIMUM LOT COVERAGE (35%), and MAXIMUM BUILDING HEIGHT (40 FEET).



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

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: JUN 13 2024 FILE # 22-0254

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

Handwritten signature: Nancy L. Freeman

Table with 2 columns: RIDEM REVISIONS and DATE. Row 1: 1 RIDEM REVISIONS 15JUN23. Row 2: 0 STATE PERMITTING SUBMISSION 21JUN22.

VALLEY CROSSING II
A.P. 107NE LOT 402C
VALLEY ROAD
MIDDLETOWN
RHODE ISLAND

Client/Owner: THE JAMES H. CLAUSEN TRUST
7067 VILLA ESTELLE DRIVE
ORLANDO, FL 32819

Issued for: PERMITTING

Drawing Title: PROPOSED NOTES

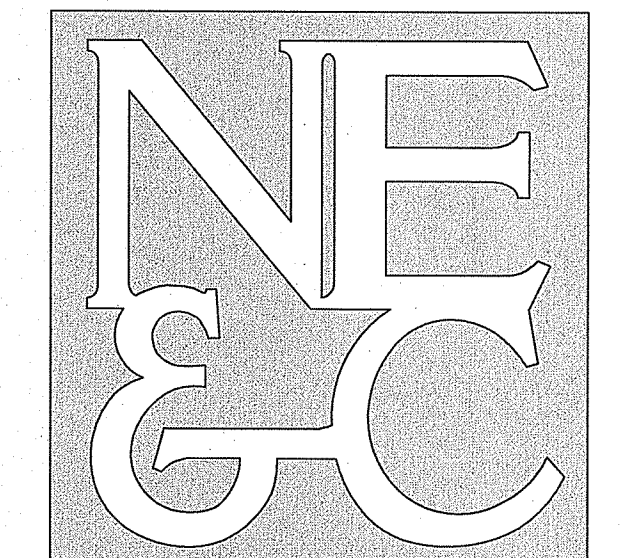
Drawing Number: C-2

Sheet 2 of 9

Project Number: 18225.3

Survey Index: -

OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.



A KNOWLEDGE CORPORATION®

6 VALLEY ROAD MIDDLETOWN RHODE ISLAND 02842  
 PHONE (401) 849-0810 FAX (401) 846-4169  
 WWW.NORTHEASTENGINEERS.COM

- SITE/CIVIL
- LAND PLANNING
- WATERFRONT
- SURVEYING
- GEOTECHNICAL
- ENVIRONMENTAL
- TRANSPORTATION
- STRUCTURAL

RI Environmental Management  
 Office of Water Resources  
 JUN 03 2024

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: JUN 13 2024 FILE # 22-0254  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
 Nancy L. Freeman

No.	Revision	Date	App.
2	RIDEM REVISIONS	07MAY24	
1	RIDEM REVISIONS	15JUN23	
0	STATE PERMITTING SUBMISSION	21JUN22	

Designed By: JJR Drawn by: JR Checked by: GES  
 Scale: 1"=30' Date: REV 15JUN23

Project Title:  
**VALLEY CROSSING II**  
**A.P. 107NE LOT 402C**  
 VALLEY ROAD  
 MIDDLETOWN  
 RHODE ISLAND

Client/Owner:  
 THE JAMES H. CLAUSEN TRUST  
 7067 VILLA ESTELLE DRIVE  
 ORLANDO FL 32819

Issued for:  
 PERMITTING

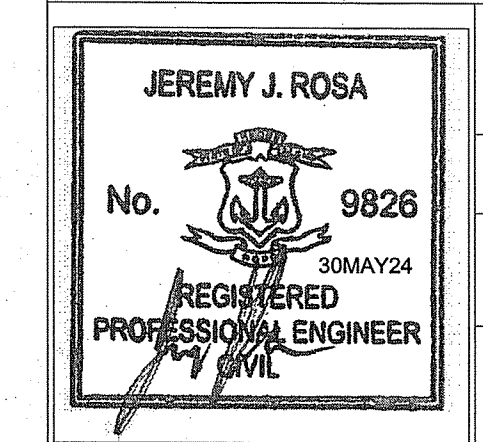
Drawing Title:  
**EXISTING CONDITIONS PLAN**

Drawing Number:  
**C-3**

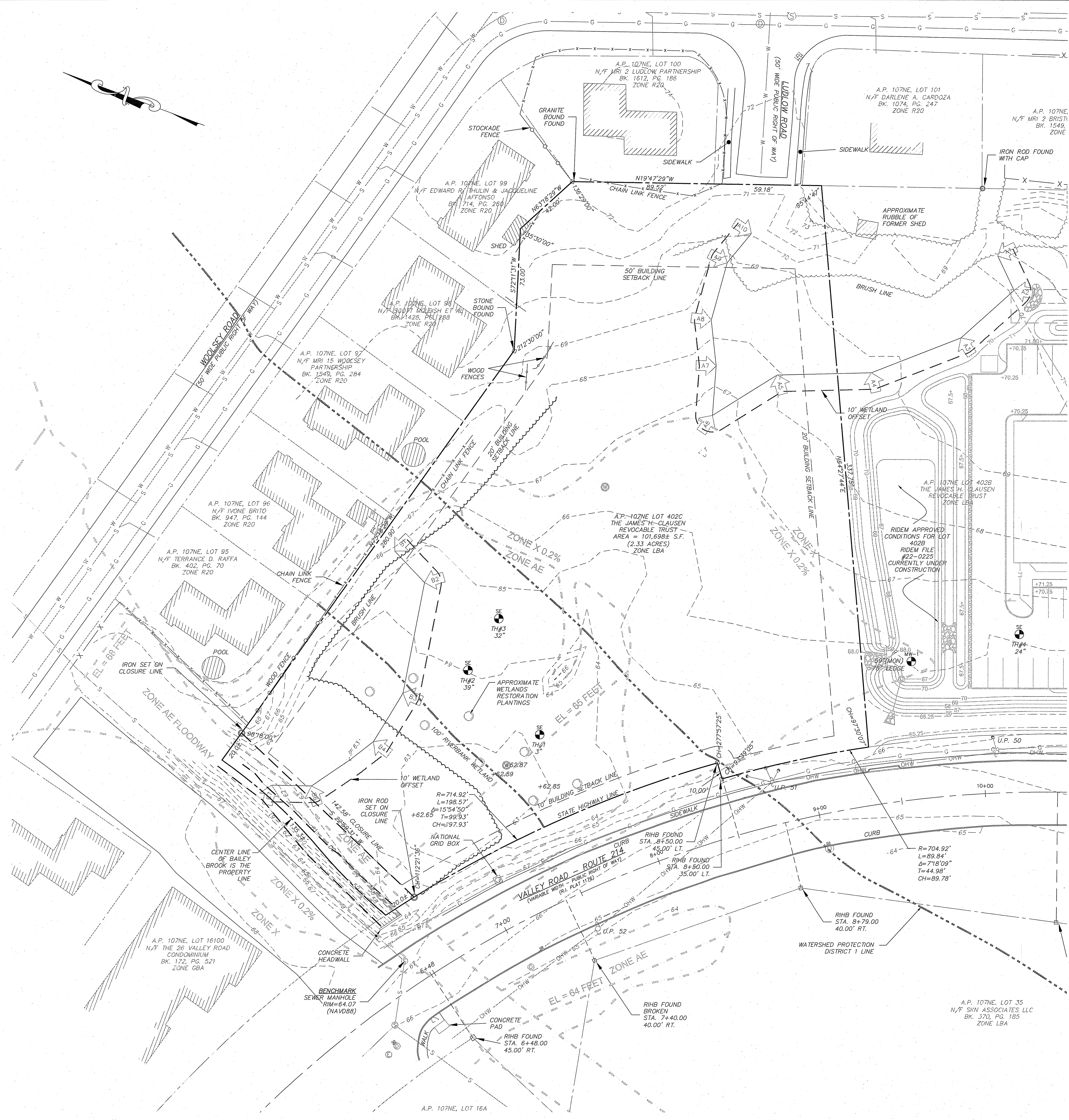
Sheet **3** of **9**

Project Number:  
**18225.3**

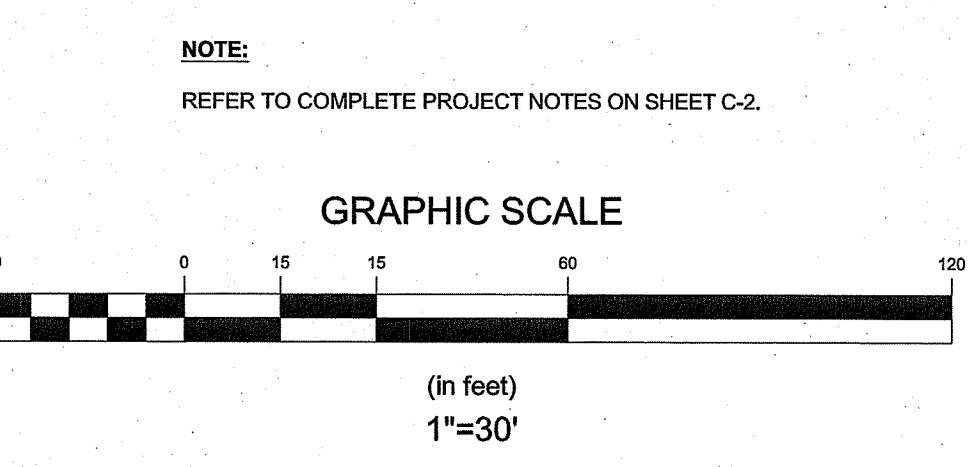
Survey Index:

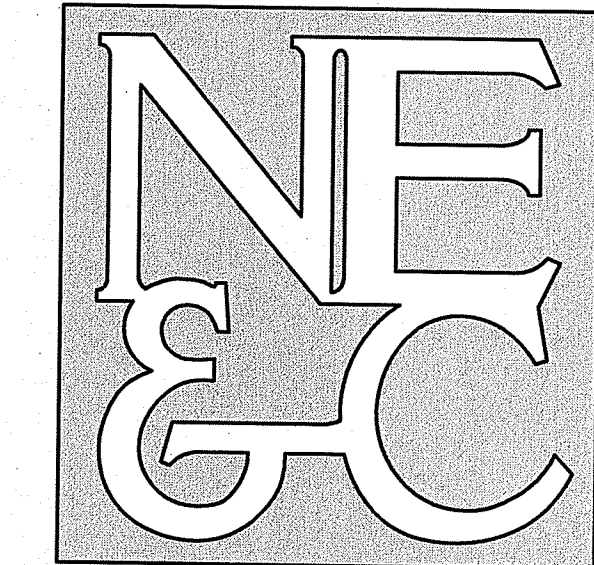


OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.



- LEGEND:**
- PROPERTY LINE
  - - - BUTTER'S PROPERTY LINE
  - - - TOPOGRAPHIC CONTOUR
  - - - ZONING BUILDING SETBACK
  - STONE WALL
  - WATERSHED PROTECTION DISTRICT
  - RIVERBANK WETLAND
  - FRESHWATER WETLAND LINE
  - WETLAND SETBACK LINE
  - x - x - CHAIN LINK FENCE
  - o - o - STOCKADE FENCE
  - - - GUARD RAIL
  - - - BRUSH LINE
  - - - GAS LINE
  - - - SEWER LINE
  - - - WATER LINE
  - - - OVERHEAD WIRE
  - ⊕ ELECTRIC MANHOLE
  - ⊙ SEWER MANHOLE
  - ⊖ DRAIN MANHOLE
  - ⊞ CATCH BASIN
  - ⊕ UTILITY POLE
  - ⊕ GUY WIRE
  - ⊕ HYDRANT
  - ⊕ GAS SHUT OFF
  - ⊕ SIGN
  - ⊕ BOUND
  - ⊕ IRON ROD
  - ⊕ SOIL EVALUATION LOCATION
  - ⊕ WETLAND FLAG
  - ⊕ MONITORING WELL LOCATION





A KNOWLEDGE CORPORATION®

6 VALLEY ROAD MIDDLETOWN RHODE ISLAND 02842  
 PHONE (401) 849-0810 FAX (401) 846-4169  
 WWW.NORTHEASTENGINEERS.COM

SITE/CIVIL  
 LAND PLANNING  
 WATERFRONT  
 SURVEYING  
 GEOTECHNICAL  
 ENVIRONMENTAL  
 TRANSPORTATION  
 STRUCTURAL

RI Environmental Management  
 JUN 03 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: JUN 13 2024 FILE # 22-0254  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy J. Felleman*

No.	Revision	Date	App.
3	RIDEM REVISIONS	30MAY24	
2	RIDEM REVISIONS	07MAY24	
1	RIDEM REVISIONS	15JUN23	
0	STATE PERMITTING SUBMISSION	21JUN22	

Designed By: **JJR** Drawn by: **JJR** Checked by: **GES**  
 Scale: 1"=30' Date: REV 15JUN23

Project Title:  
**VALLEY CROSSING II**  
**A.P. 107NE LOT 402C**  
 VALLEY ROAD  
 MIDDLETOWN  
 RHODE ISLAND

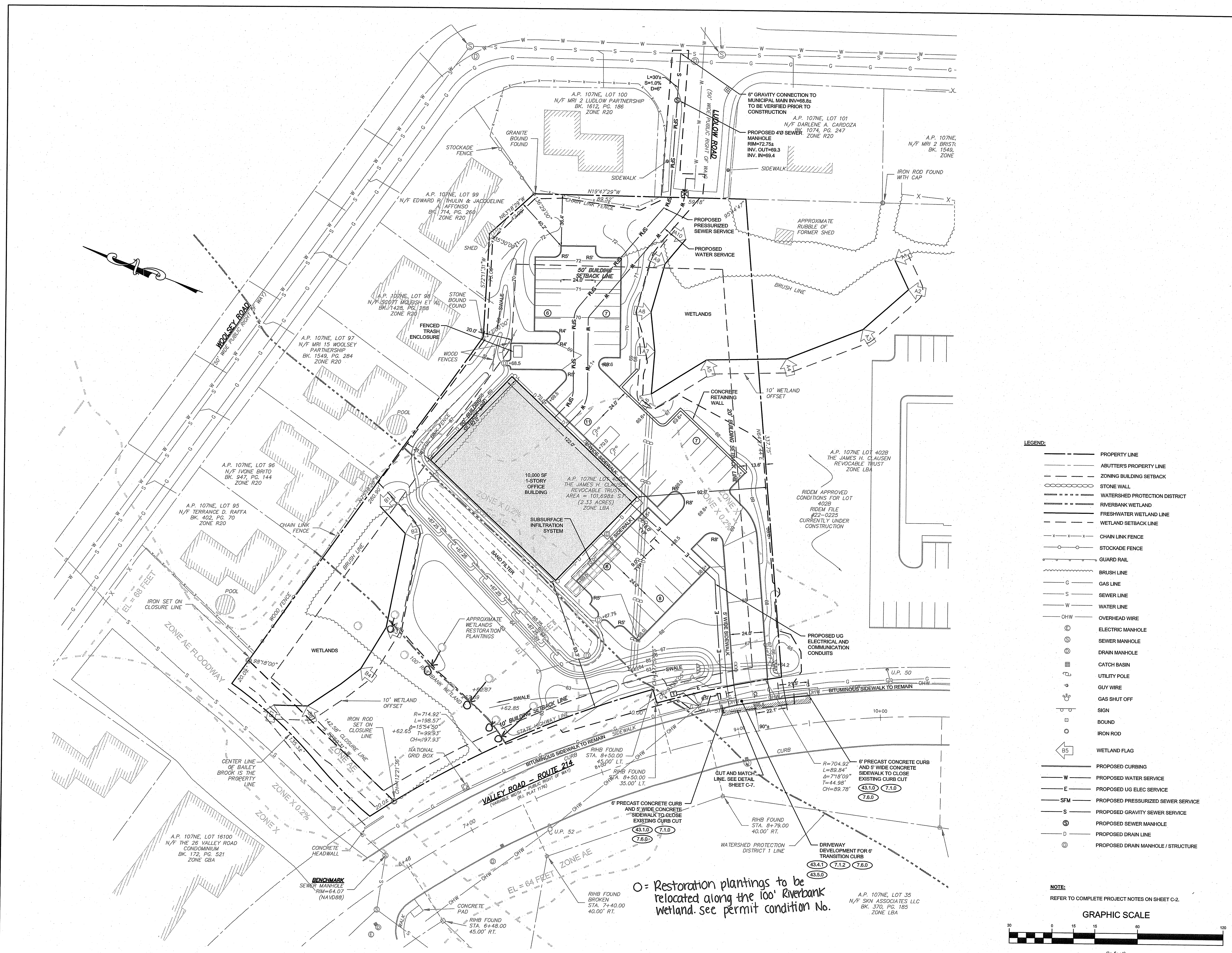
Client/Owner:  
**THE JAMES H. CLAUSEN TRUST**  
 7067 VILLA ESTELLE DRIVE  
 ORLANDO FL 32819

Issued for:  
**PERMITTING**

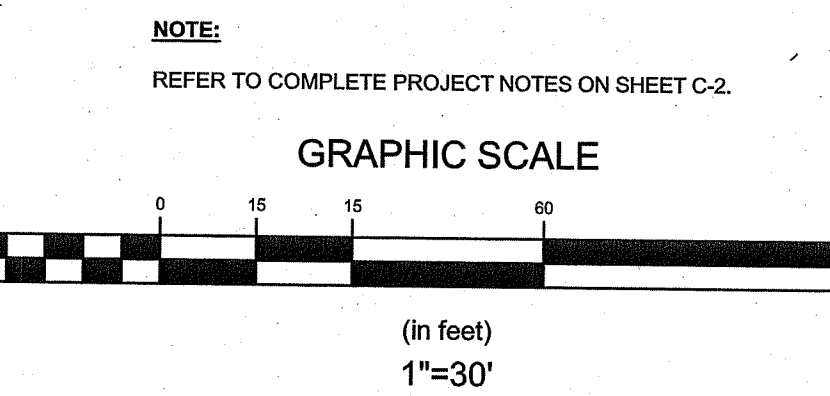
Drawing Title:  
**LAYOUT AND UTILITY PLAN**

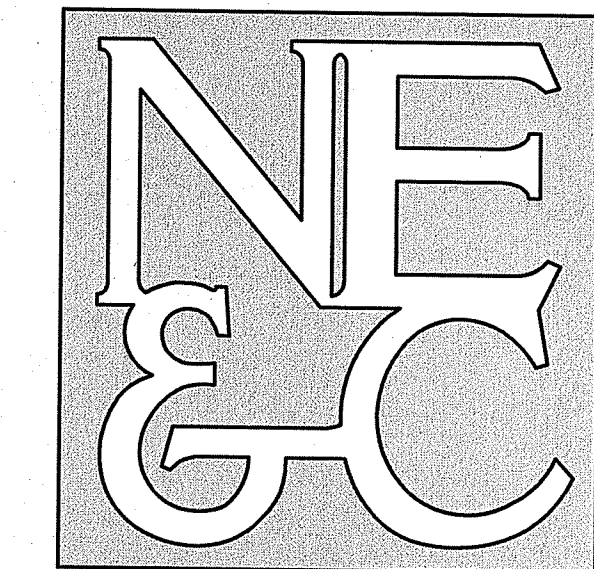
	Drawing Number: <b>C-4</b>
	Sheet <b>4</b> of <b>9</b>
	Project Number: <b>18225.3</b>
	Survey Index:

OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.



- LEGEND:**
- PROPERTY LINE
  - ABUTTER'S PROPERTY LINE
  - ZONING BUILDING SETBACK
  - STONE WALL
  - WATERSHED PROTECTION DISTRICT
  - RIVERBANK WETLAND
  - FRESHWATER WETLAND LINE
  - WETLAND SETBACK LINE
  - x-x-x- CHAIN LINK FENCE
  - o-o-o-o STOCKADE FENCE
  - o-o-o-o GUARD RAIL
  - BRUSH LINE
  - G GAS LINE
  - S SEWER LINE
  - W WATER LINE
  - OHW OVERHEAD WIRE
  - ⊕ ELECTRIC MANHOLE
  - ⊙ SEWER MANHOLE
  - ⊙ DRAIN MANHOLE
  - ⊕ CATCH BASIN
  - ⊕ UTILITY POLE
  - ⊕ GUY WIRE
  - ⊕ GAS SHUT OFF
  - ⊕ SIGN
  - ⊕ BOUND
  - ⊕ IRON ROD
  - ⊕ WETLAND FLAG
  - PROPOSED CURBING
  - W PROPOSED WATER SERVICE
  - E PROPOSED UG ELEC SERVICE
  - SFM PROPOSED PRESSURIZED SEWER SERVICE
  - S PROPOSED GRAVITY SEWER SERVICE
  - ⊕ PROPOSED SEWER MANHOLE
  - ⊕ PROPOSED DRAIN LINE
  - ⊕ PROPOSED DRAIN MANHOLE / STRUCTURE





A KNOWLEDGE CORPORATION

6 VALLEY ROAD MIDDLETOWN RHODE ISLAND 02842  
 PHONE (401) 849-0810 FAX (401) 846-4169  
 WWW.NORTHEASTENGINEERS.COM

SITE/CIVIL  
 LAND PLANNING  
 WATERFRONT  
 SURVEYING  
 GEOTECHNICAL  
 ENVIRONMENTAL  
 TRANSPORTATION  
 STRUCTURAL

RI Environmental Management  
 JUN 03 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: JUN 13 2024 FILE #: 22-0254  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

No.	Revision	Date	App.
3	RIDEM REVISIONS	30MAY24	
2	RIDEM REVISIONS	07MAY24	
1	RIDEM REVISIONS	15JUN23	
0	STATE PERMITTING SUBMISSION	21JUN22	

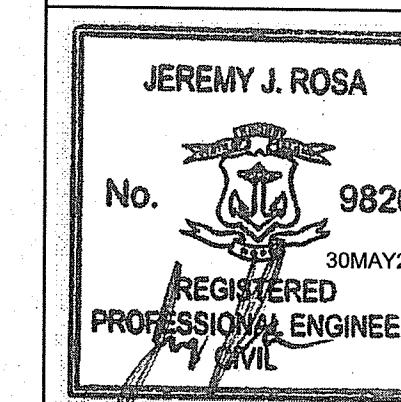
Designed By: JJR Drawn by: JJR Checked by: GES  
 Scale: 1"=30' Date: REV 15JUN23

Project Title:  
**VALLEY CROSSING II**  
**A.P. 107NE LOT 402C**  
 VALLEY ROAD  
 MIDDLETOWN  
 RHODE ISLAND

Client/Owner:  
 THE JAMES H. CLAUSEN TRUST  
 7067 VILLA ESTELLE DRIVE  
 ORLANDO, FL 32819

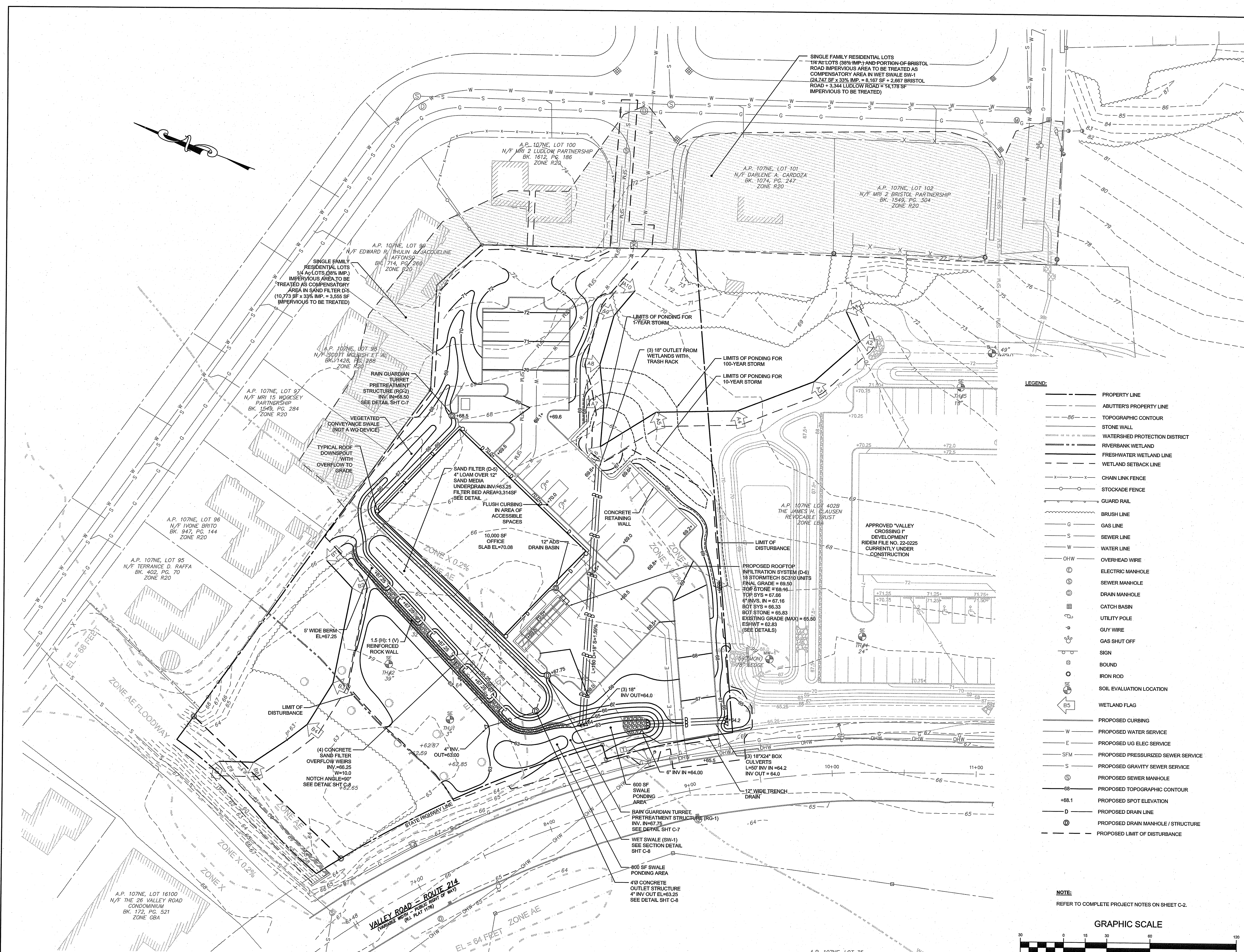
Issued for:  
 PERMITTING

Drawing Title:  
**PROPOSED GRADING  
 AND DRAINAGE PLAN**



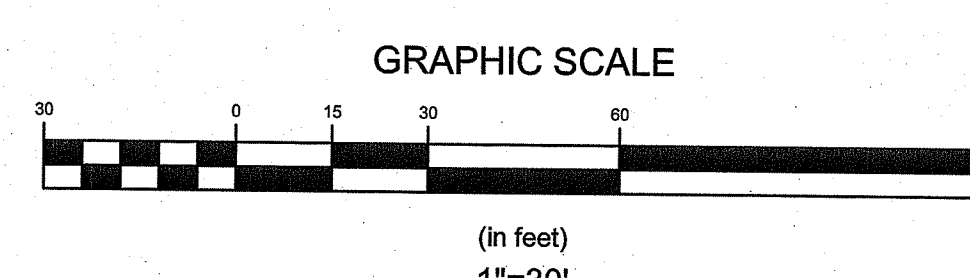
Drawing Number:  
**C-5**  
 Sheet 5 of 9  
 Project Number:  
**18225.3**  
 Survey Index:

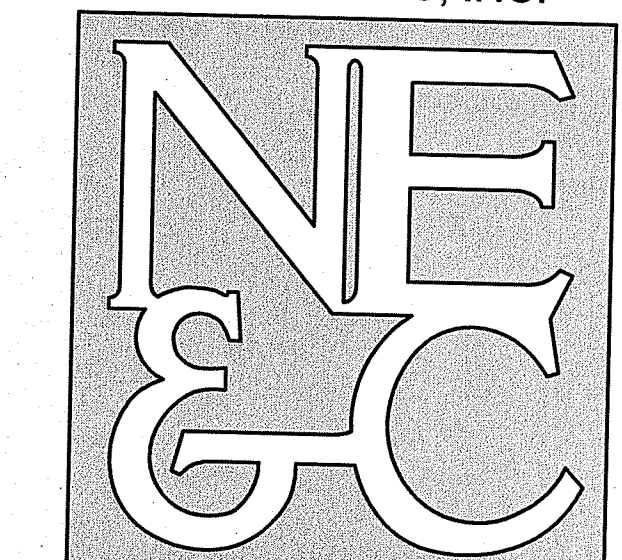
OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.



- LEGEND:**
- PROPERTY LINE
  - - - ABUTTER'S PROPERTY LINE
  - - - TOPOGRAPHIC CONTOUR
  - STONE WALL
  - - - WATERSHED PROTECTION DISTRICT
  - - - RIVERBANK WETLAND
  - - - FRESHWATER WETLAND LINE
  - - - WETLAND SETBACK LINE
  - - - CHAIN LINK FENCE
  - - - STOCKADE FENCE
  - - - GUARD RAIL
  - - - BRUSH LINE
  - - - GAS LINE
  - - - SEWER LINE
  - - - WATER LINE
  - - - OHW
  - - - OVERHEAD WIRE
  - ⊙ ELECTRIC MANHOLE
  - ⊙ SEWER MANHOLE
  - ⊙ DRAIN MANHOLE
  - ⊙ CATCH BASIN
  - ⊙ UTILITY POLE
  - ⊙ GUY WIRE
  - ⊙ GAS SHUT OFF
  - ⊙ SIGN
  - ⊙ BOUND
  - ⊙ IRON ROD
  - ⊙ SOIL EVALUATION LOCATION
  - ⊙ WETLAND FLAG
  - - - PROPOSED CURBING
  - - - PROPOSED WATER SERVICE
  - - - PROPOSED UG ELEC SERVICE
  - - - SFM
  - - - PROPOSED PRESSURIZED SEWER SERVICE
  - - - S
  - - - PROPOSED GRAVITY SEWER SERVICE
  - - - ⊙
  - - - PROPOSED SEWER MANHOLE
  - - - ⊙
  - - - PROPOSED TOPOGRAPHIC CONTOUR
  - - - +88.1
  - - - PROPOSED SPOT ELEVATION
  - - - D
  - - - PROPOSED DRAIN LINE
  - - - ⊙
  - - - PROPOSED DRAIN MANHOLE / STRUCTURE
  - - - - -
  - - - PROPOSED LIMIT OF DISTURBANCE

**NOTE:**  
 REFER TO COMPLETE PROJECT NOTES ON SHEET C-2.





A KNOWLEDGE CORPORATION®

6 VALLEY ROAD MIDDLETOWN RHODE ISLAND 02842  
 PHONE (401) 849-0810 FAX (401) 846-4169  
 WWW.NORTHEASTENGINEERS.COM

SITE/CIVIL  
 LAND PLANNING  
 WATERFRONT  
 SURVEYING  
 GEOTECHNICAL  
 ENVIRONMENTAL  
 TRANSPORTATION  
 STRUCTURAL

RI Environmental Management  
 JUN 03 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: JUN 13 2024 FILE #: 22-0254  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
 Nancy L. Freeman

No.	Revision	Date	App.
2	RIDEM REVISIONS	30MAY24	
1	RIDEM REVISIONS	15JUN23	
0	STATE PERMITTING SUBMISSION	21JUN22	

Designed By: JJR Drawn by: JJR Checked by: GES  
 Scale: 1"=30' Date: REV 15JUN23

Project Title:  
**VALLEY CROSSING II**  
 A.P. 107NE LOT 402C  
 VALLEY ROAD  
 MIDDLETOWN  
 RHODE ISLAND

Client/Owner:  
 THE JAMES H. CLAUSEN TRUST  
 7067 VILLA ESTELLE DRIVE  
 ORLANDO, FL 32819

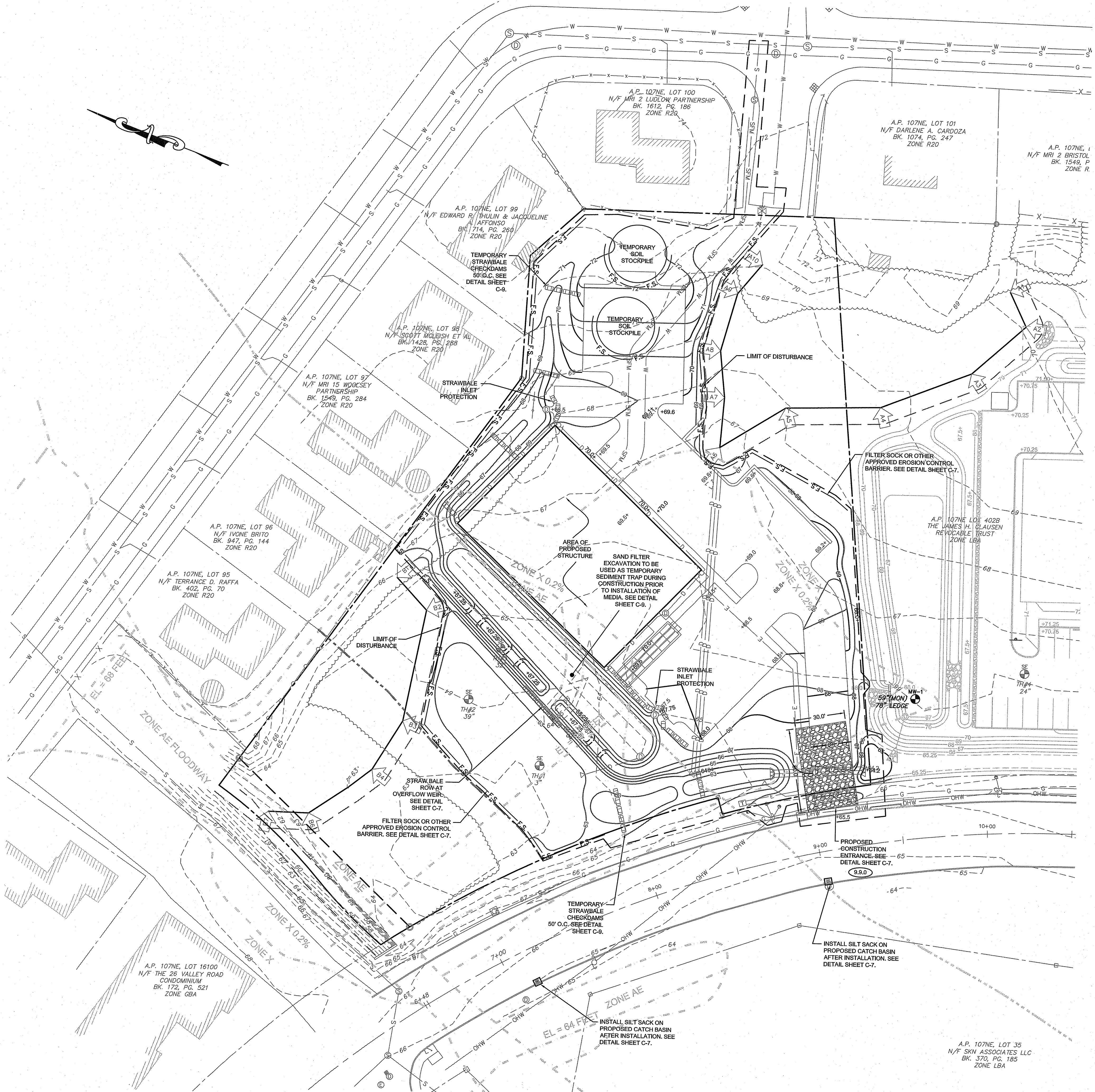
Issued for:  
 PERMITTING

Drawing Title:

**SOIL EROSION AND  
 SEDIMENT CONTROL PLAN  
 WITH CONSTRUCTION GRADING**

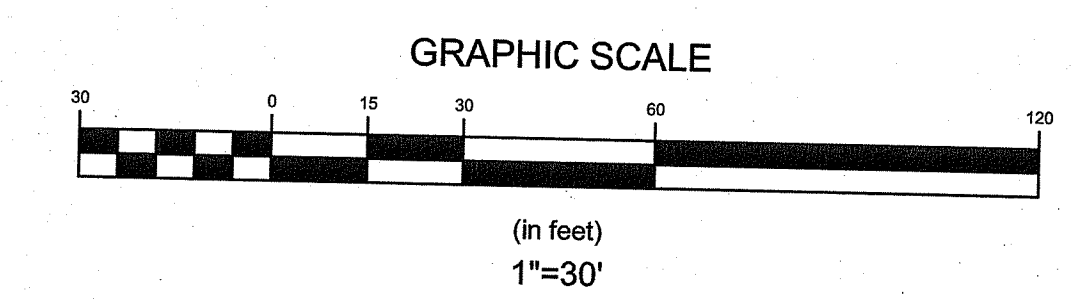
	Drawing Number:	C-6
	Sheet	6 of 9
	Project Number:	18225.3
	Survey Index:	

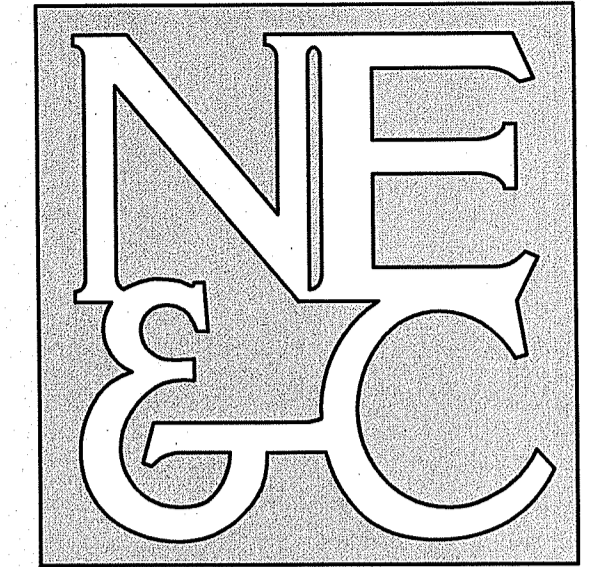
OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.



- LEGEND:**
- PROPERTY LINE
  - ABUTTER'S PROPERTY LINE
  - TOPOGRAPHIC CONTOUR
  - STONE WALL
  - WATERSHED PROTECTION DISTRICT
  - RIVERBANK WETLAND
  - FRESHWATER WETLAND LINE
  - WETLAND SETBACK LINE
  - CHAIN LINK FENCE
  - STOCKADE FENCE
  - GUARD RAIL
  - BRUSH LINE
  - GAS LINE
  - SEWER LINE
  - WATER LINE
  - OHW — OVERHEAD WIRE
  - ELECTRIC MANHOLE
  - SEWER MANHOLE
  - DRAIN MANHOLE
  - CATCH BASIN
  - UTILITY POLE
  - GUY WIRE
  - GAS SHUT OFF
  - SIGN
  - BOUND
  - IRON ROD
  - SOIL EVALUATION LOCATION
  - WETLAND FLAG
  - PROPOSED CURBING
  - PROPOSED WATER SERVICE
  - PROPOSED UG ELEC SERVICE
  - SFM — PROPOSED PRESSURIZED SEWER SERVICE
  - S — PROPOSED GRAVITY SEWER SERVICE
  - S — PROPOSED SEWER MANHOLE
  - 68 — PROPOSED TOPOGRAPHIC CONTOUR
  - +68.1 — PROPOSED SPOT ELEVATION
  - D — PROPOSED DRAIN LINE
  - D — PROPOSED DRAIN MANHOLE / STRUCTURE
  - F.S. — PROPOSED EROSION CONTROL BARRIER
  - PROPOSED STRAWBALE BARRIERS
  - PROPOSED LIMIT OF DISTURBANCE

**NOTE:**  
 REFER TO COMPLETE PROJECT NOTES ON SHEET C-2.

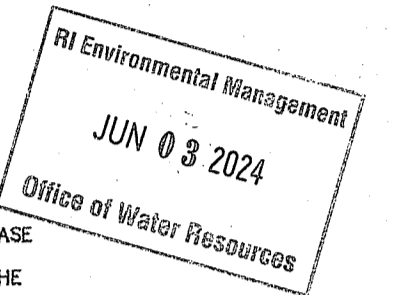




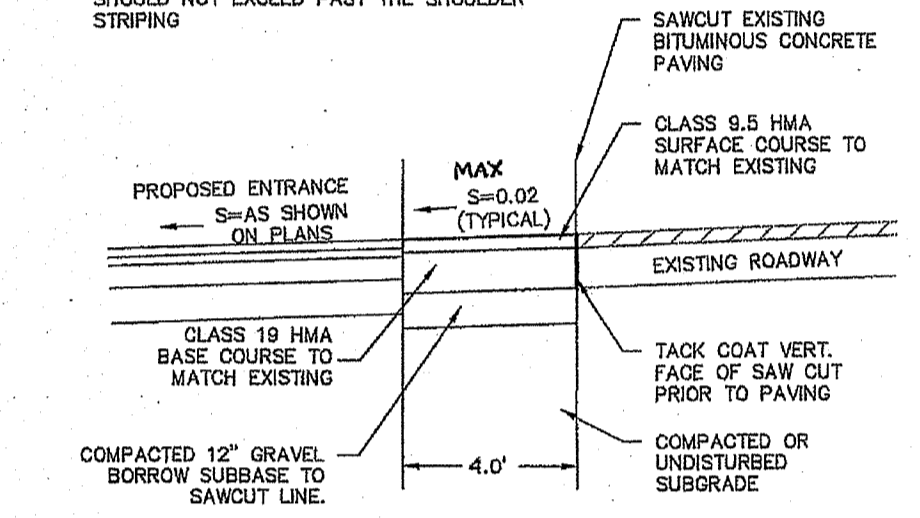
A KNOWLEDGE CORPORATION®

6 VALLEY ROAD MIDDLETOWN RHODE ISLAND 02842  
PHONE (401) 849-0810 FAX (401) 846-4169  
WWW.NORTHEASTENGINEERS.COM

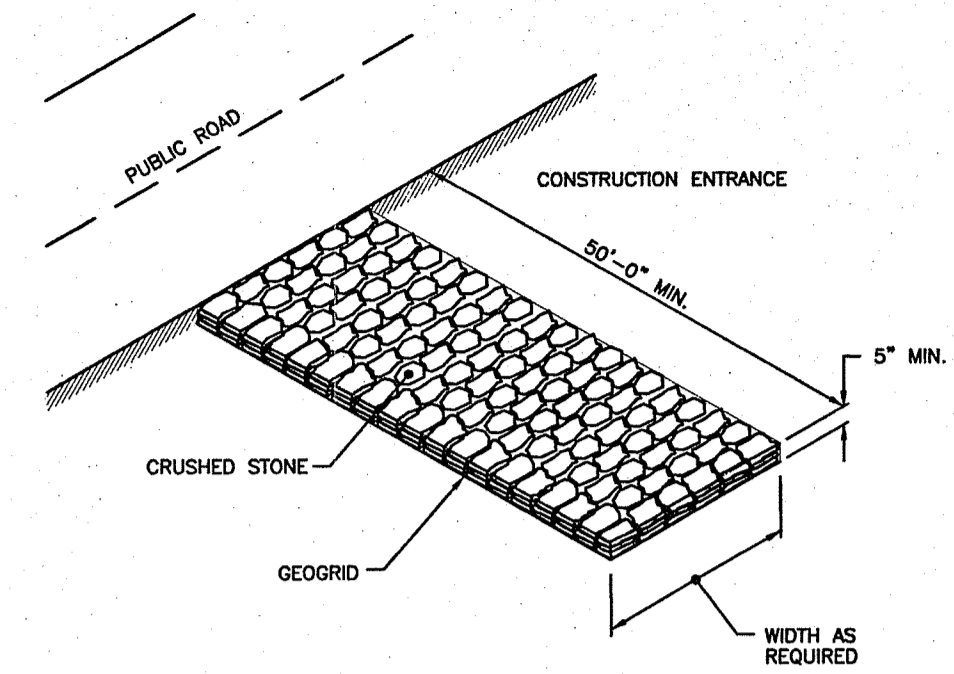
SITE/CIVIL  
LAND PLANNING  
WATERFRONT  
SURVEYING  
GEOTECHNICAL  
ENVIRONMENTAL  
TRANSPORTATION  
STRUCTURAL



- NOTE:
- MINIMUM COMPACTION FOR GRAVEL SUB-BASE OR SUBGRADE: 95% MODIFIED PROCTOR.
  - NO WORK SHOULD BE DONE OUTSIDE OF THE PROJECT SITE. PAVEMENT SHOULD MATCH WHERE NOTED ON THE SITE PLANS.
  - WHEN MATCHING EXISTING PAVEMENT THE LONGITUDINAL CUT AND MATCH SECTION SHOULD NOT EXCEED PAST THE SHOULDER STRIPING.

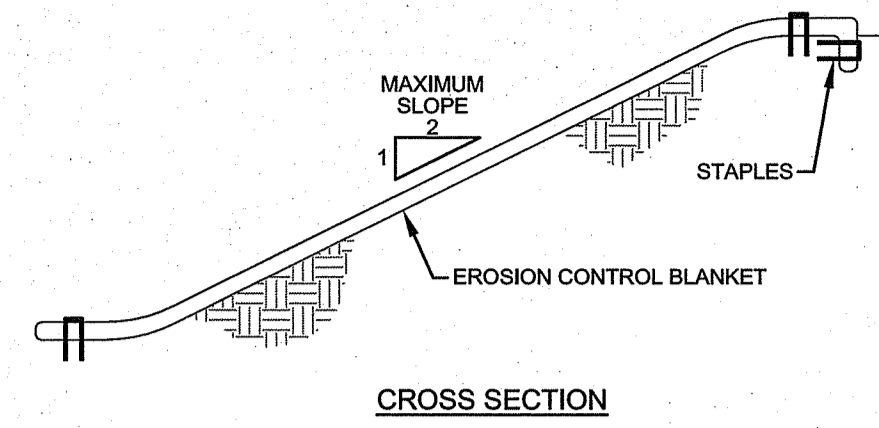


RIGHT OF WAY SAWCUT & MATCH DETAIL  
SCALE: NOT TO SCALE



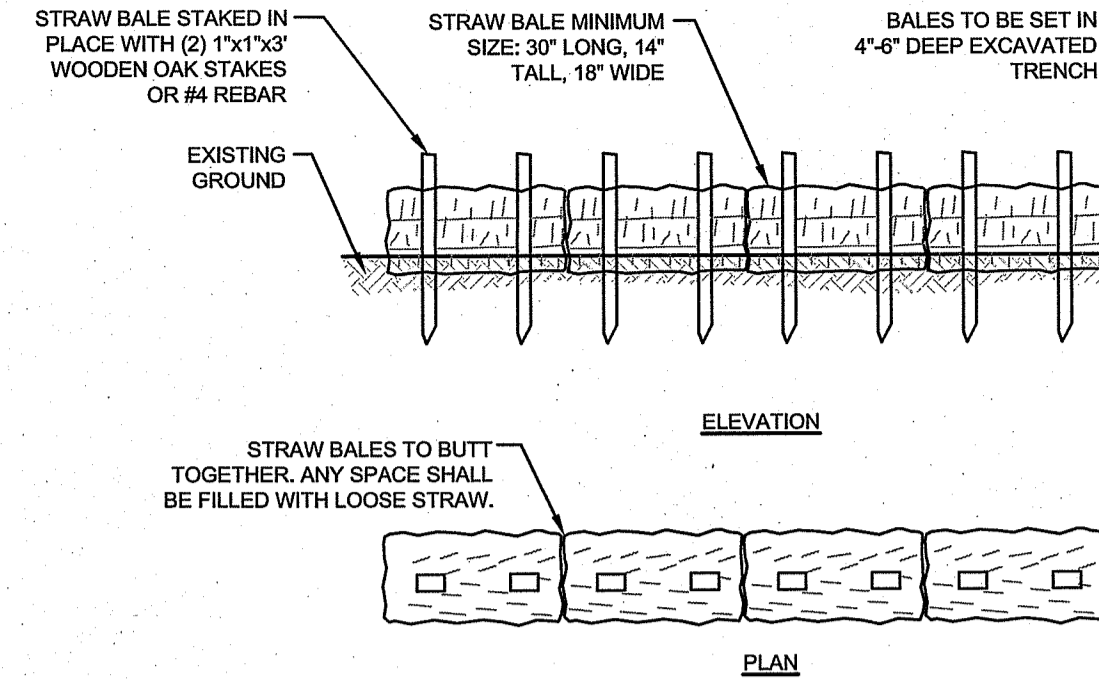
NOTE: SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

STONE CONSTRUCTION ACCESS (RIDOT 9.9.0)  
SCALE: NOT TO SCALE



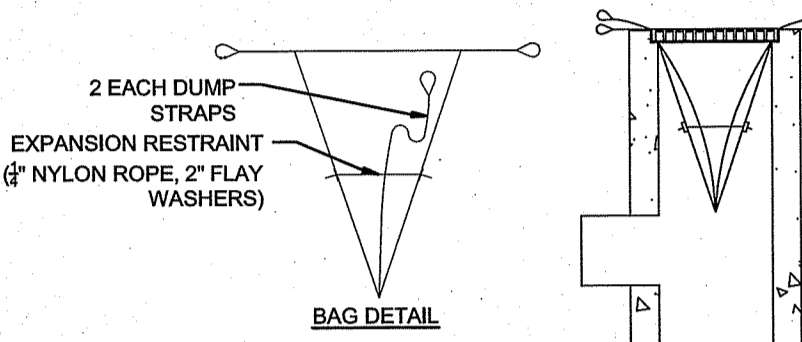
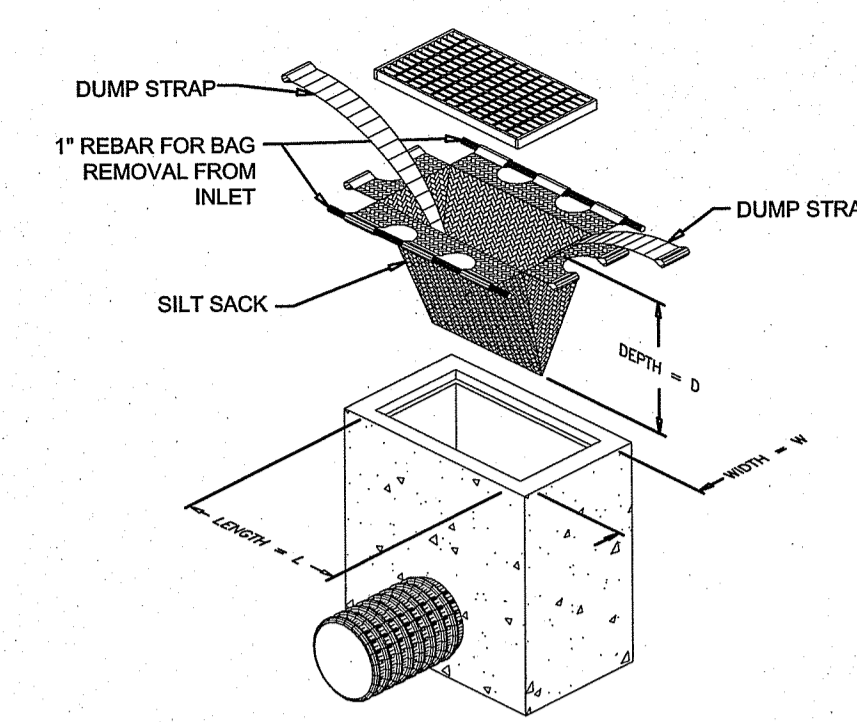
- NOTES:
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED.
  - ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
  - ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
  - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
  - WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

EROSION CONTROL BLANKET  
SCALE: NOT TO SCALE



- NOTES:
- BALE WEIGHT SHALL NOT BE LESS THAN 50 LBS AND SHALL BE BOUND WITH NO LESS THAN TWO STRINGS OR WIRES CONTAINING A MINIMUM OF FIVE (5) CUBIC FEET OF MATERIAL. MINIMUM DIMENSIONS SHOWN IN DETAIL.
  - STRAW BALES SHALL BE CERTIFIED AS BEING NOXIOUS WEED-FREE BALES. TO BE 'CERTIFIED' MEANS THAT THE PRODUCT IS FREE OF ANY NOXIOUS WEEDS.
  - STAKES SHALL BE DRIVEN THROUGH STAKES AT A SLIGHT UPSTREAM ANGLE TO PREVENT BALE FROM OVERTURNING.
  - LOOSE STRAW SHALL BE WEDGED BETWEEN BALES AFTER INSTALLATION.
  - MATERIAL EXCAVATED FROM TRENCH SHALL BE BACKFILLED, COMPACTED, AND STABILIZED.

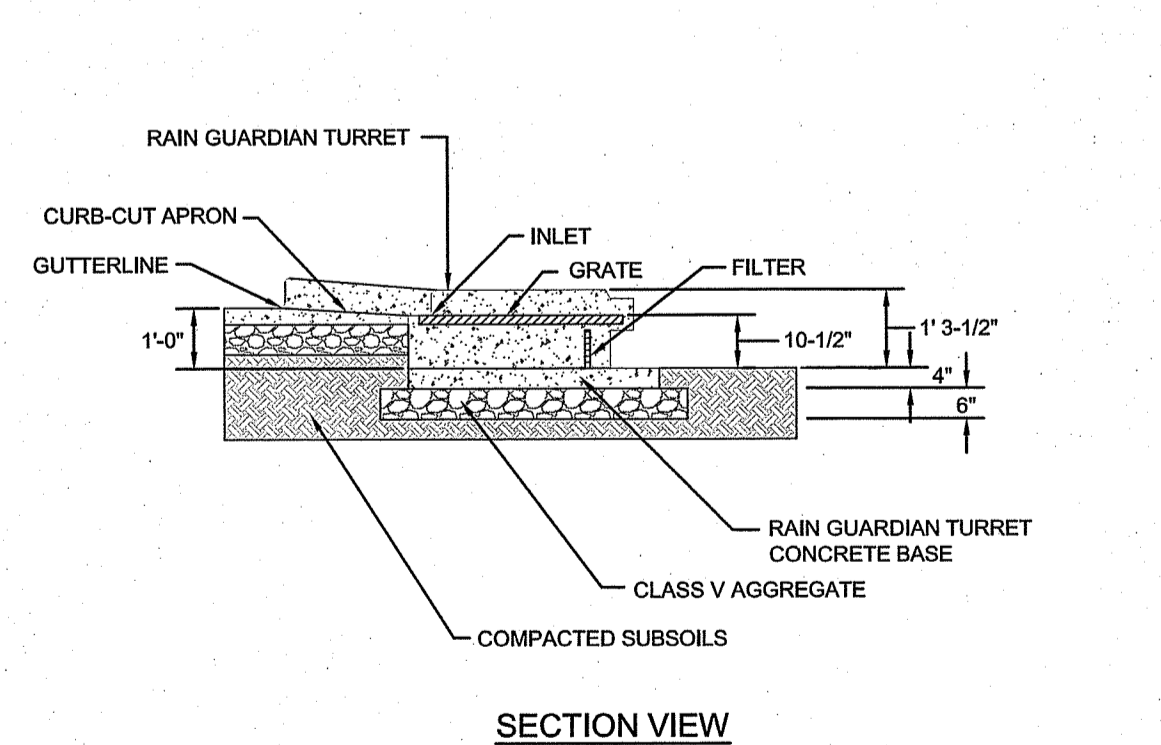
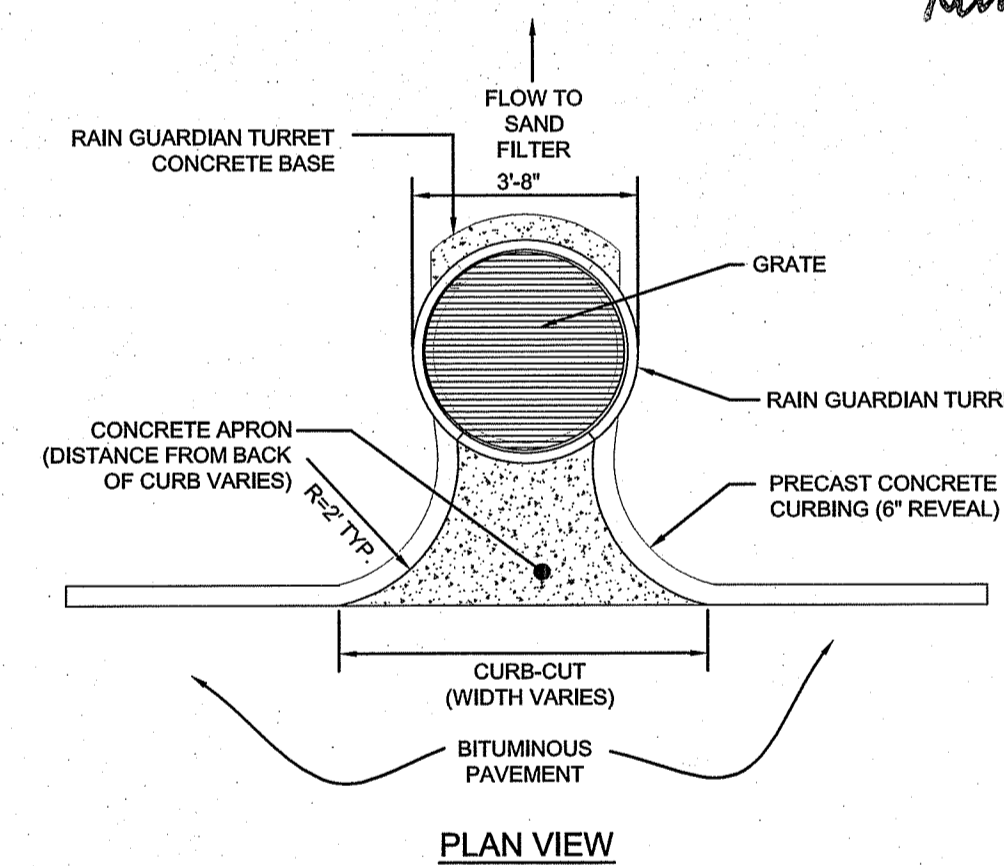
BALED STRAW EROSION CONTROL BARRIER  
SCALE: NOT TO SCALE



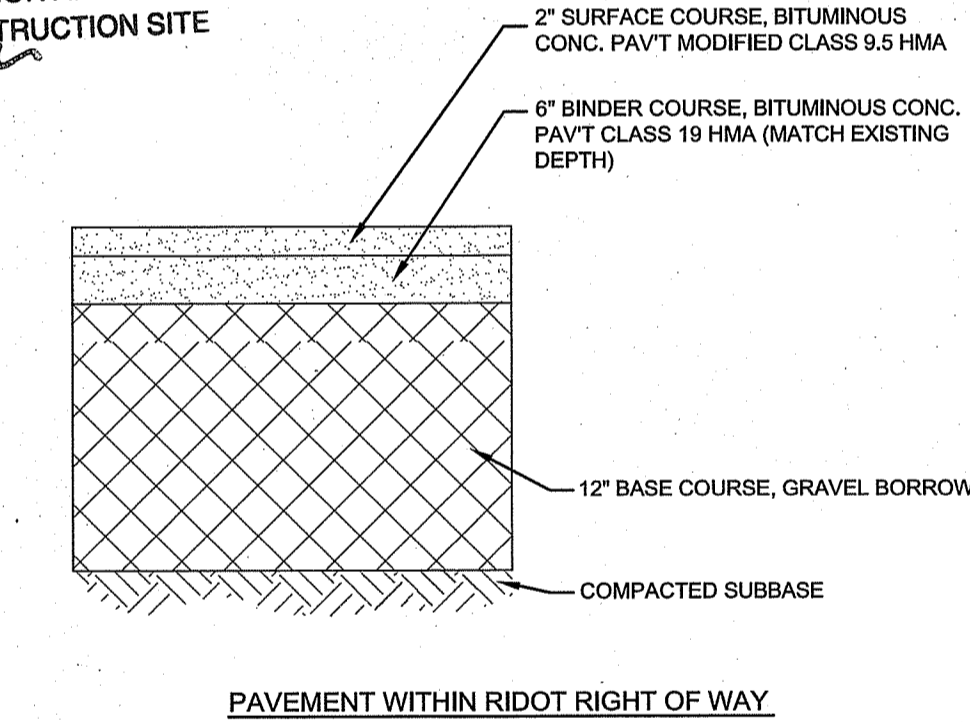
- MAINTENANCE SCHEDULE:
- EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT (>0.25" OF PRECIPITATION IN 24 HOURS).
  - IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACKS SHALL BE INSPECTED EVERY 2-3 WEEKS.
  - THE YELLOW RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.

SILT SACK DETAIL  
SCALE: NOT TO SCALE

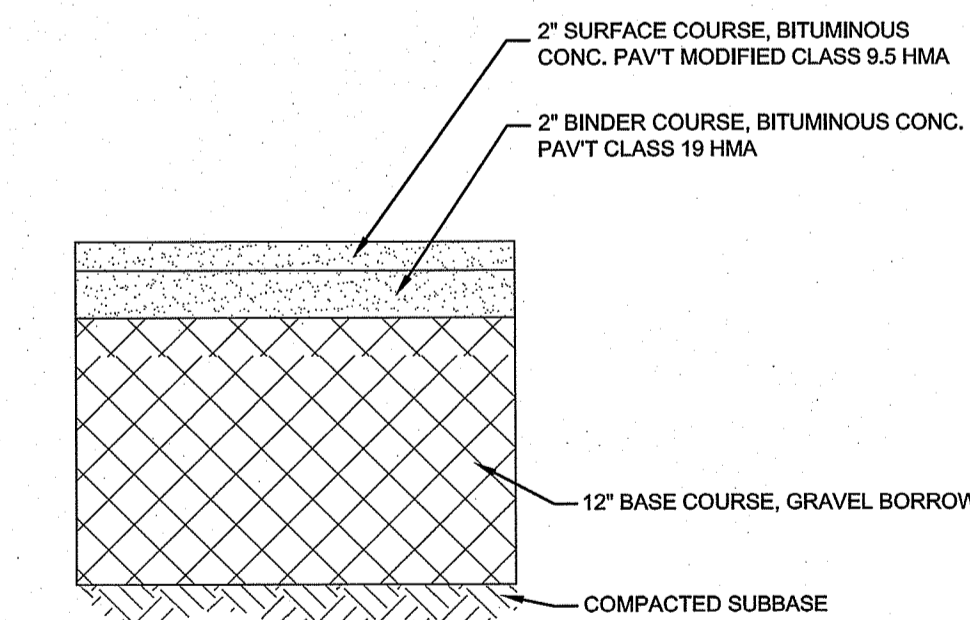
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: JUN 13 2024 FILE # 22-0254  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Abigail L. Freeman*



RAIN GUARDIAN TURRET PRETREATMENT STRUCTURE  
SCALE: NTS

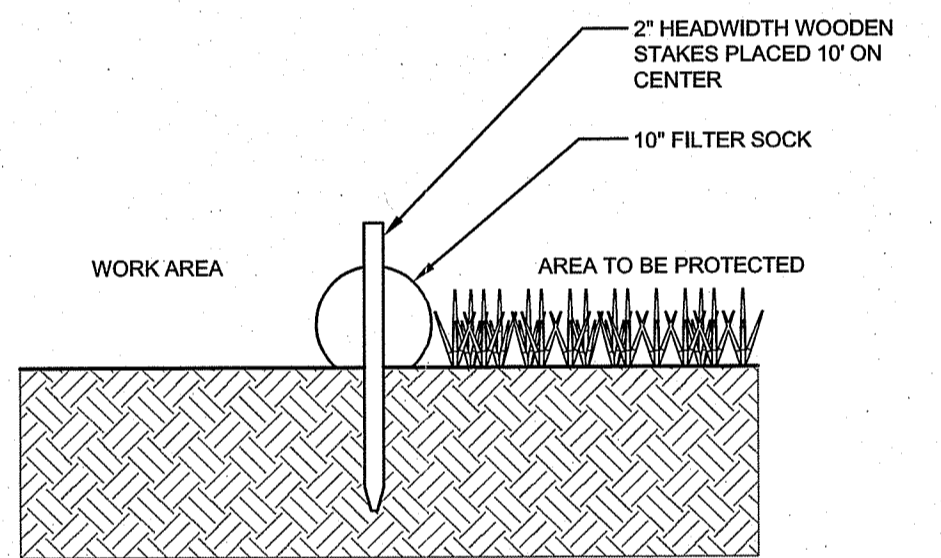


PAVEMENT WITHIN RIDOT RIGHT OF WAY

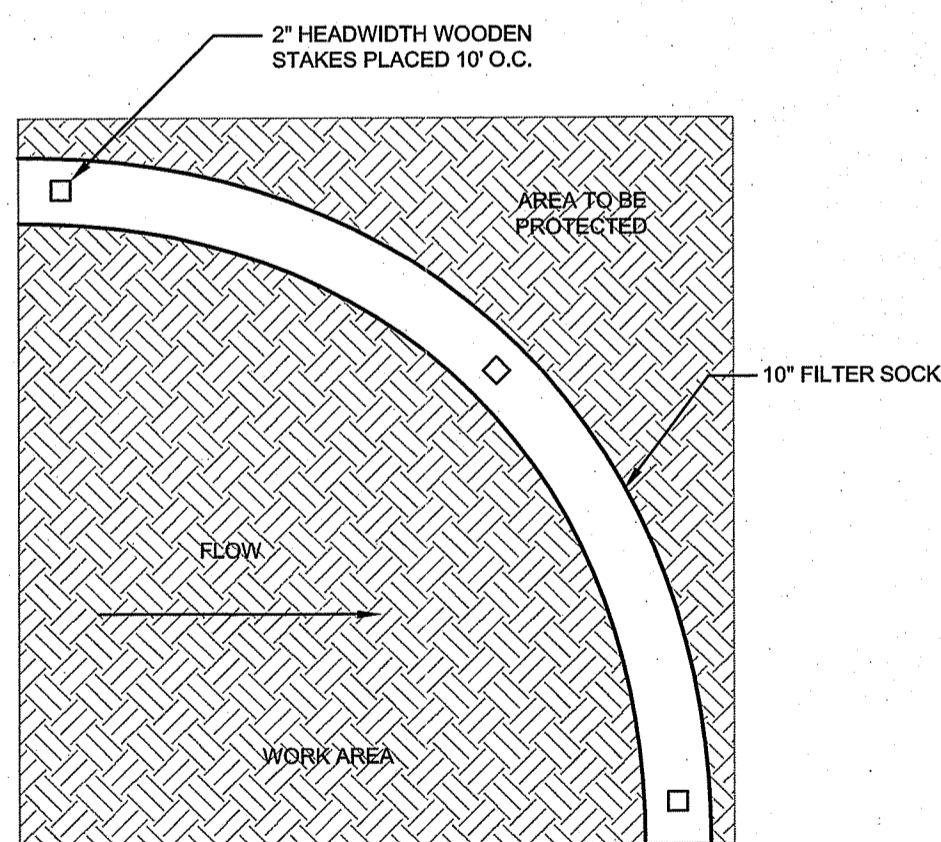


PAVEMENT WITHIN THE SITE

BITUMINOUS PAVEMENT SECTIONS  
SCALE: NOT TO SCALE

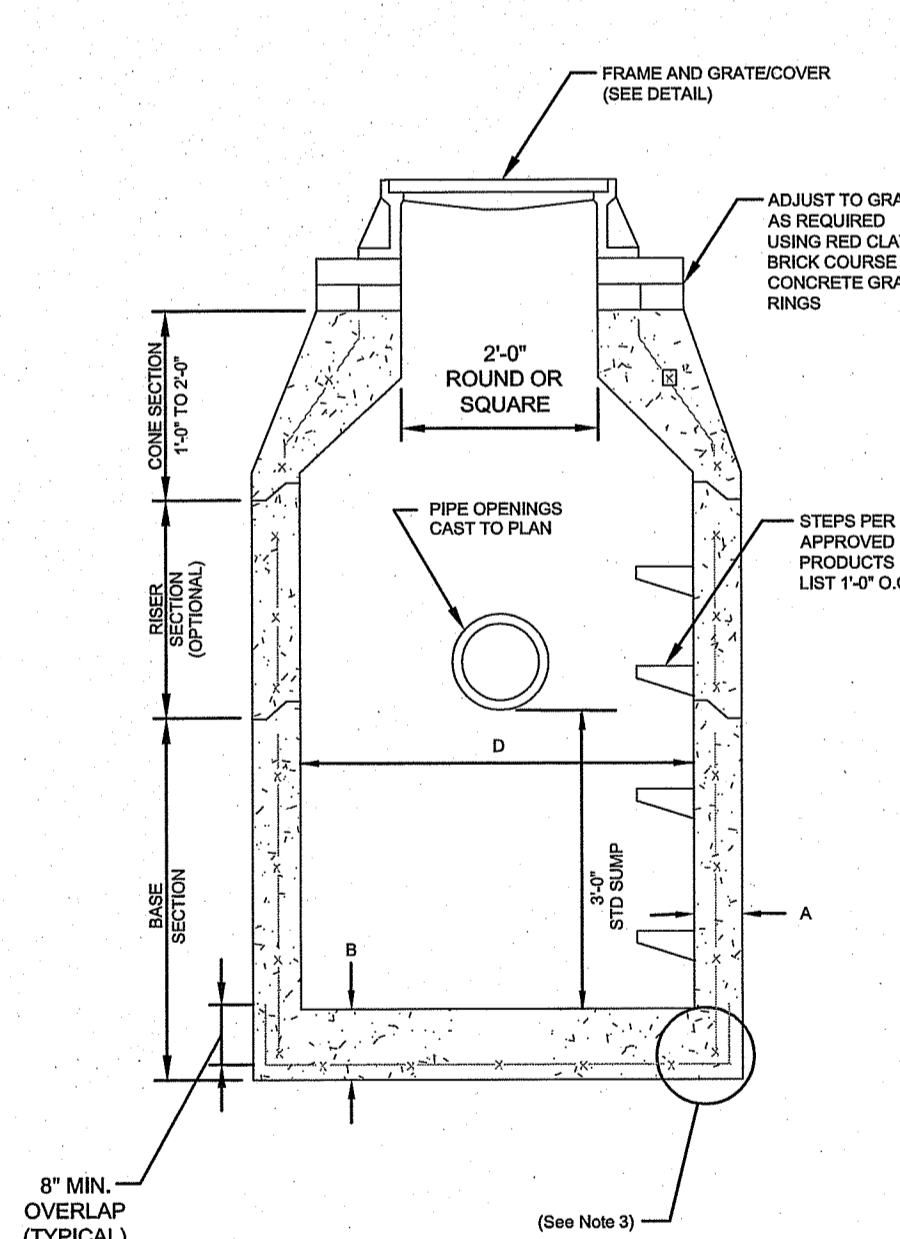


SECTION VIEW



TOP VIEW

10" FILTER SOCK DETAIL  
SCALE: NOT TO SCALE



PRECAST ROUND CATCH BASIN & DRAIN MANHOLE (RIDOT 4.4.0)  
SCALE: NOT TO SCALE

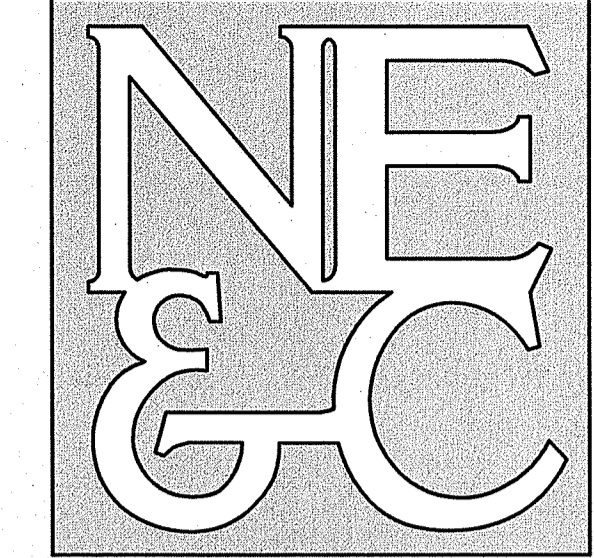
ALTERNATIVE TOP SLAB (See Notes 9 & 10)

AS REQUIRED

CATCH BASIN DIAMETER (D)	TABLE 1		CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
	A	B	
4'-0"	5'	6'	0.12 SQ. IN./LN. FT.
5'-0"	6'	7'	0.15 SQ. IN./LN. FT.
6'-0"	7'	8'	0.18 SQ. IN./LN. FT.
8'-0"	9'	8'	REFER TO MANUFACTURER

\* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C476, ITEM 8.1.2

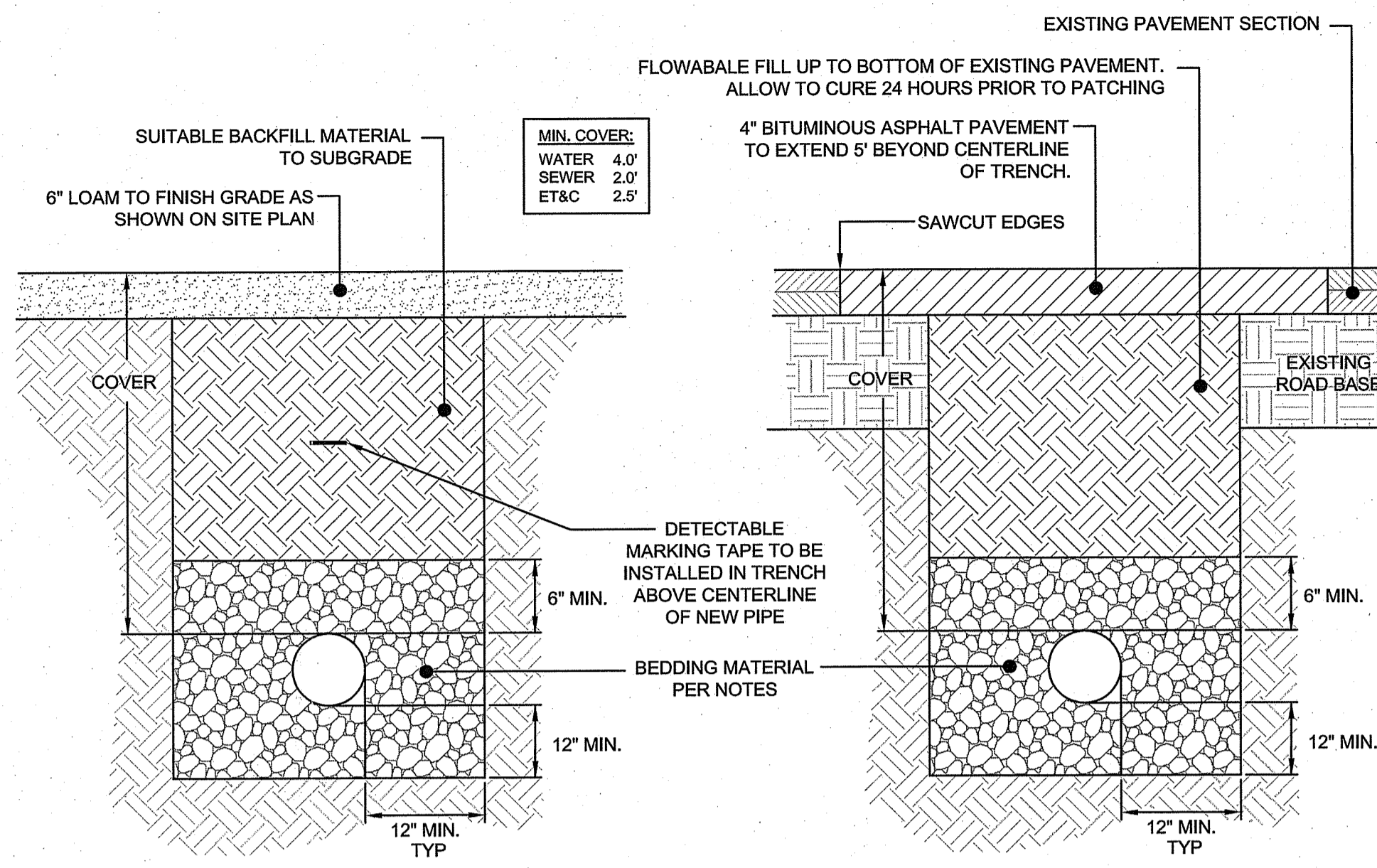
- NOTES:
- SHALL BE ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATION.
  - SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
  - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LN. FT. (BOTH WAYS).
  - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
  - ONE POUR MONOLITHIC BASE SECTION.
  - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
  - CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE 'CONE SECTION' OF THE 4'-0" CATCH BASIN ONLY.
  - THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
  - ALTERNATIVE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
  - ALTERNATIVE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
  - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.



A KNOWLEDGE CORPORATION®

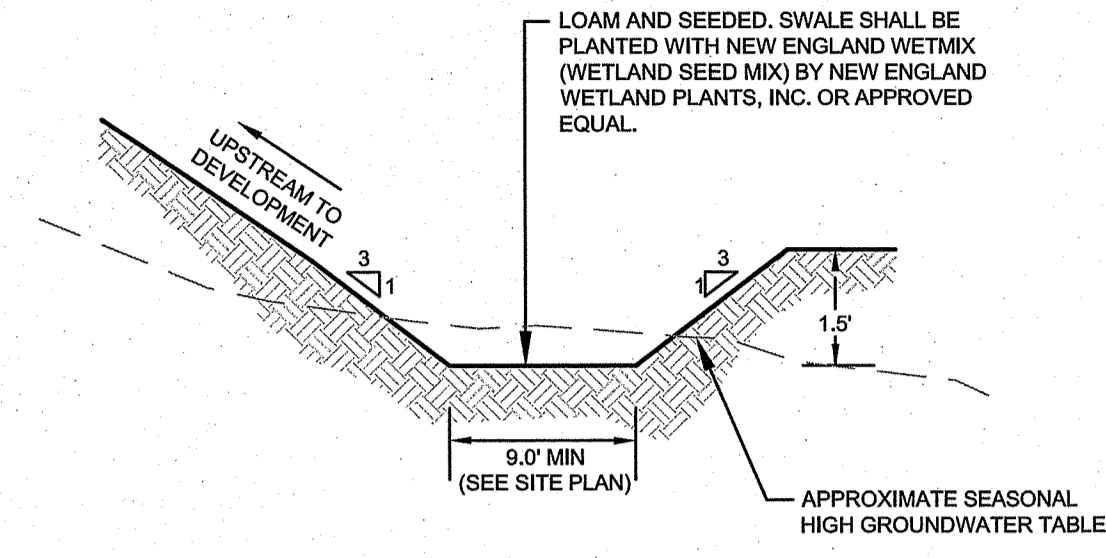
6 VALLEY ROAD MIDDLETOWN RHODE ISLAND 02842  
PHONE (401) 849-0810 FAX (401) 846-4169  
WWW.NORTHEASTENGINEERS.COM

RI Environmental Management  
Office of Water Resources  
JUN 03 2024

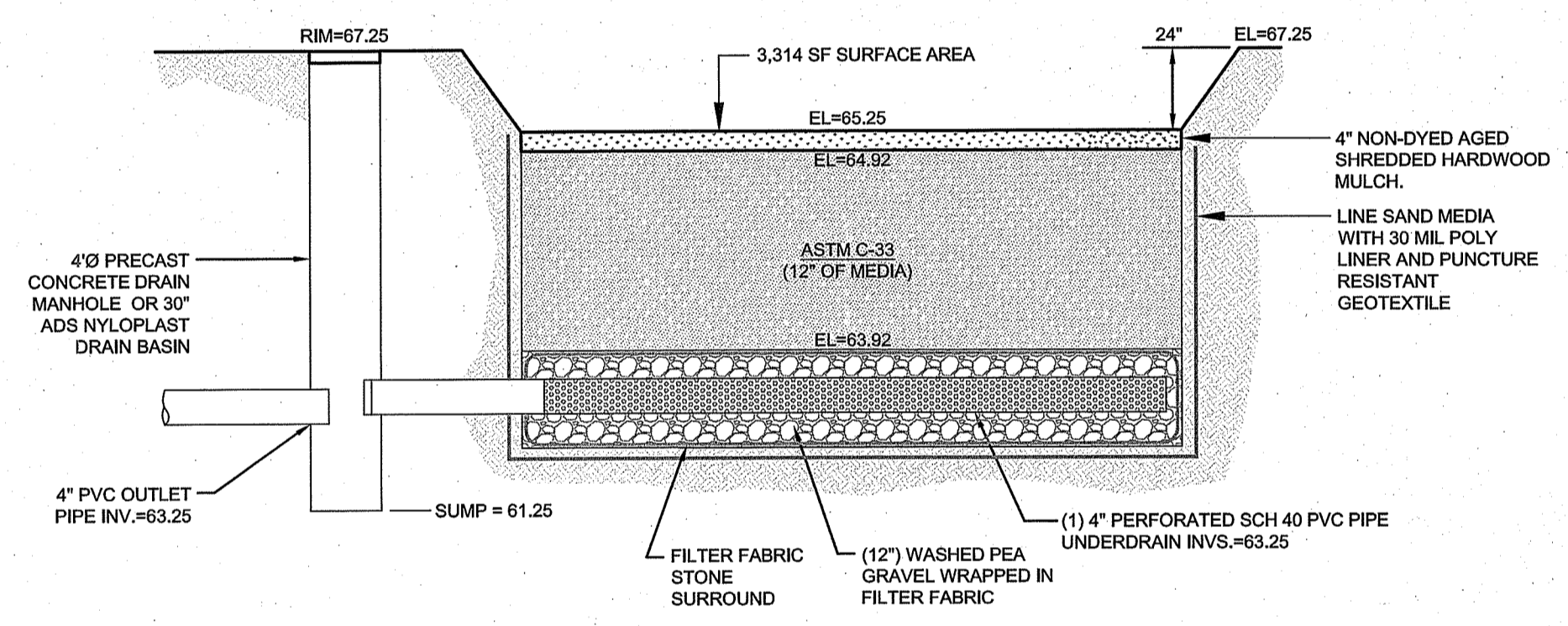


UTILITY TRENCH DETAIL  
SCALE: NOT TO SCALE

- TRENCH NOTES:**
1. UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12-INCHES BELOW THE DESIGN INVERT ELEVATION.
  2. TRENCH PROTECTION SHALL BE REQUIRED IN ACCORDANCE WITH OSHA REGULATIONS, AND AS OTHERWISE REQUIRED TO PROTECT UTILITIES, ROADWAYS, AND ADJACENT STRUCTURES.
  3. SEWER AND DRAIN PIPES SHALL BE LAID BEGINNING AT THE DOWNSTREAM END OF THE PIPE LINE.
  4. ALL PVC SEWER PIPES SHALL BE IPEX RING-TITE SDR 35, OR SIMILAR APPROVED.
  5. ALL DRAIN PIPES SHALL BE ADS N-12 TYPE 1B (SOILTIGHT) UNLESS OTHERWISE INDICATED.
  6. ALL SEWER PIPE AND GASKETS SHALL CONFORM TO ASTM 3034 AND ASTM F679.
  7. BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" IN HEIGHT WHEN INSTALLED UNDER LANDSCAPED AREAS ONLY. INSTALLATIONS UNDER PAVEMENT REQUIRE BACKFILL MATERIAL TO BE PLACED IN LAYERS NOT TO EXCEED 6" IN HEIGHT. THESE LAYERS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (AASHTO T99). SUITABLE BACKFILL SHALL BE FREE OF LOAM, CLAY, ORGANIC MATTER AND PARTICLES LARGER THAN 2 INCHES IN DIAMETER.
  8. SEWER AND DRAINAGE PIPE TRENCHES SHALL BE BEDDED WITH CRUSHED STONE OR SCREENED GRAVEL. THESE MATERIALS MUST CONFORM TO RIDOT STANDARD M.01.09 TYPE II MATERIAL.
  9. WATER PIPE TRENCHES MUST BE BEDDED WITH SAND CONTAINING NO PARTICLES LARGER THAN 3/8". THIS MATERIAL MUST CONFORM TO AASHTO M6 REQUIREMENTS.
  10. UTILITY INSTALLATIONS SHALL CONFORM TO ALL REQUIREMENTS OF THE TOWN OF MIDDLETOWN PUBLIC WORKS DEPARTMENT.
  11. WHEN TRENCH EXCAVATION IS ADJACENT TO OR UNDER EXISTING STRUCTURES OR FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SHEETING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVE-INS AND SETTLEMENT AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDERPINNING TO FULLY PROTECT THEM FROM DAMAGE.

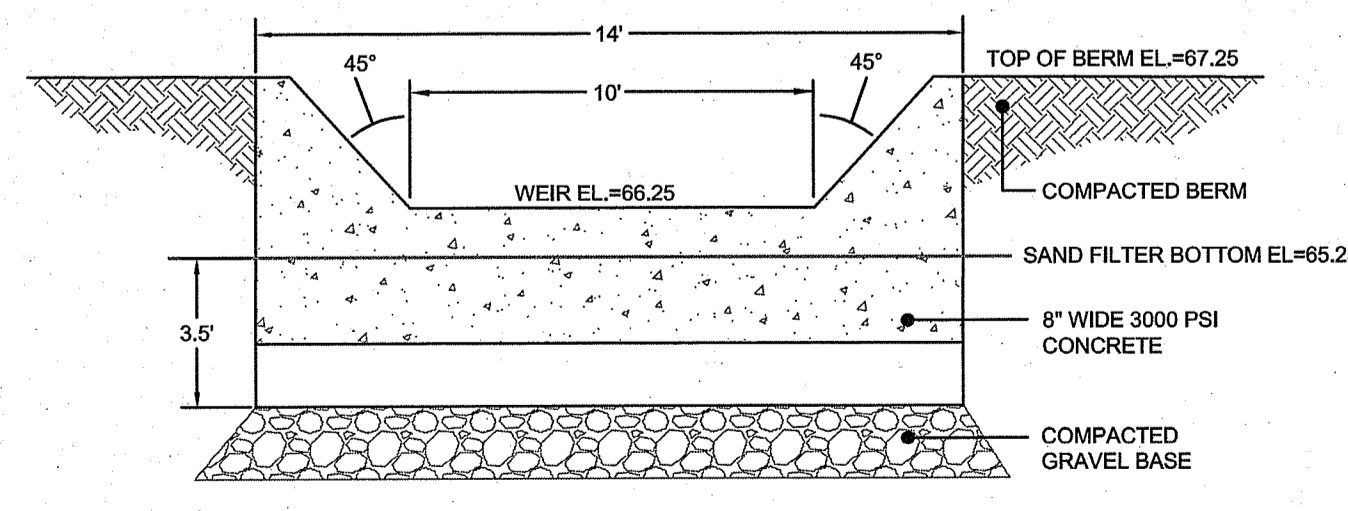


WET SWALE (SW-1) CROSS SECTION  
SCALE: NOT TO SCALE

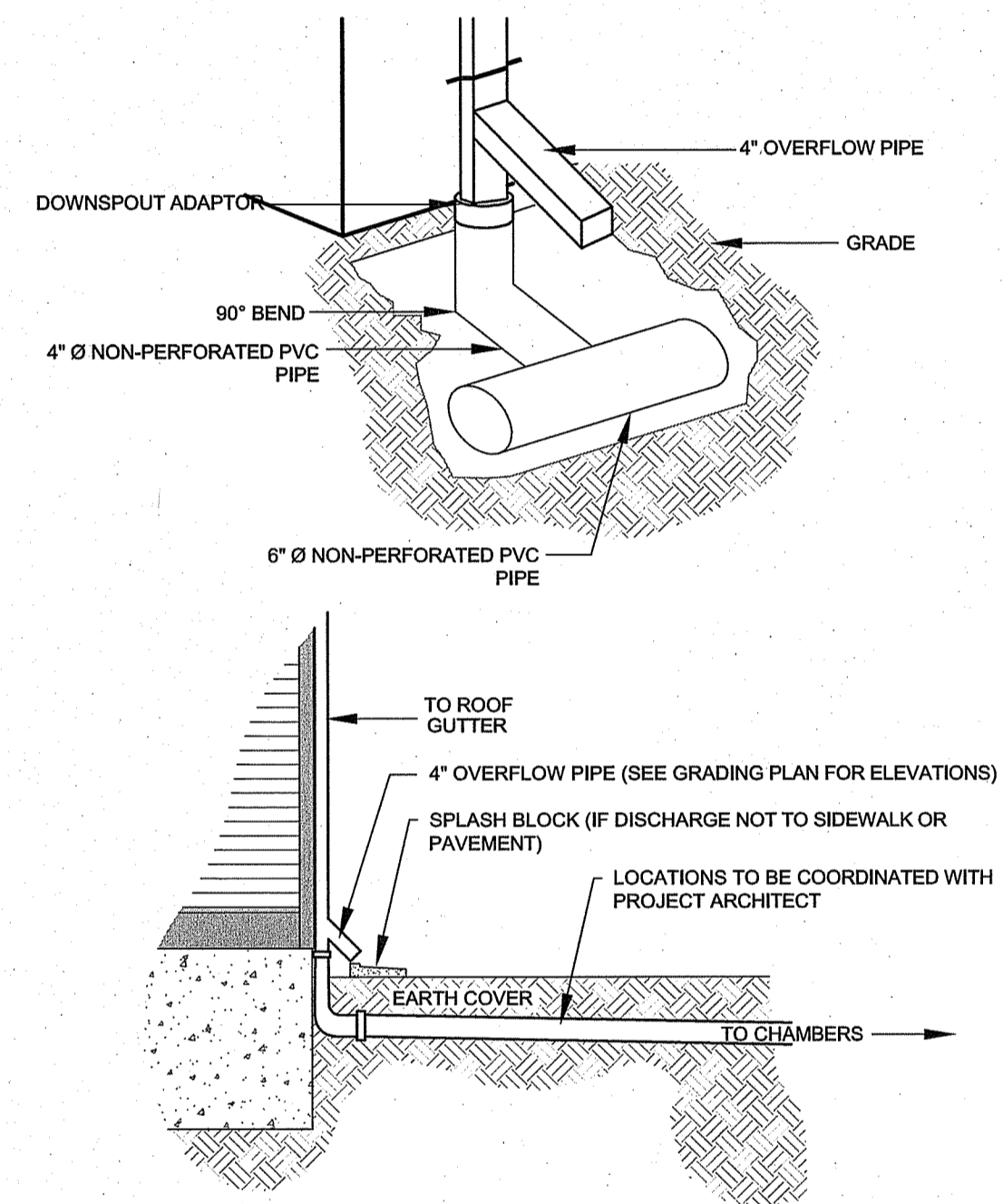


- SAND FILTER NOTES:**
1. SAND FILTER SHALL BE PLANTED WITH NEW ENGLAND WETMIX (WETLAND SEED MIX) BY NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL.
  2. SAND FILTER SAND TO BE CLEAN AASHTO M-6 OR ASTM C-33 CONCRETE SAND (0.02" TO 0.04"). SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO ROCK DUST CAN BE USED AS SAND.
  3. UNDERDRAIN GRAVEL SHALL CONFORM TO AASHTO M-43, 0.25" TO 0.75". MATERIAL MUST BE WASHED CLEAN GRAVEL.
  4. UNDERDRAIN SHALL BE SCHEDULE 40 PVC PIPE CONFORMING TO ASTM D-1785 OR AASHTO M-278. PERFORATIONS SHALL BE 3/8" @ 6" ON CENTER. PIPE SHALL HAVE 3" OF GRAVEL OVER PIPE. PIPE TO BE WRAPPED IN GEOTEXTILE FABRIC CONFORMING TO FLOWRATE INDICATED IN NOTE 5.
  5. IMPERMEABLE LINER SHALL BE A 30 MIL POLY-LINER.

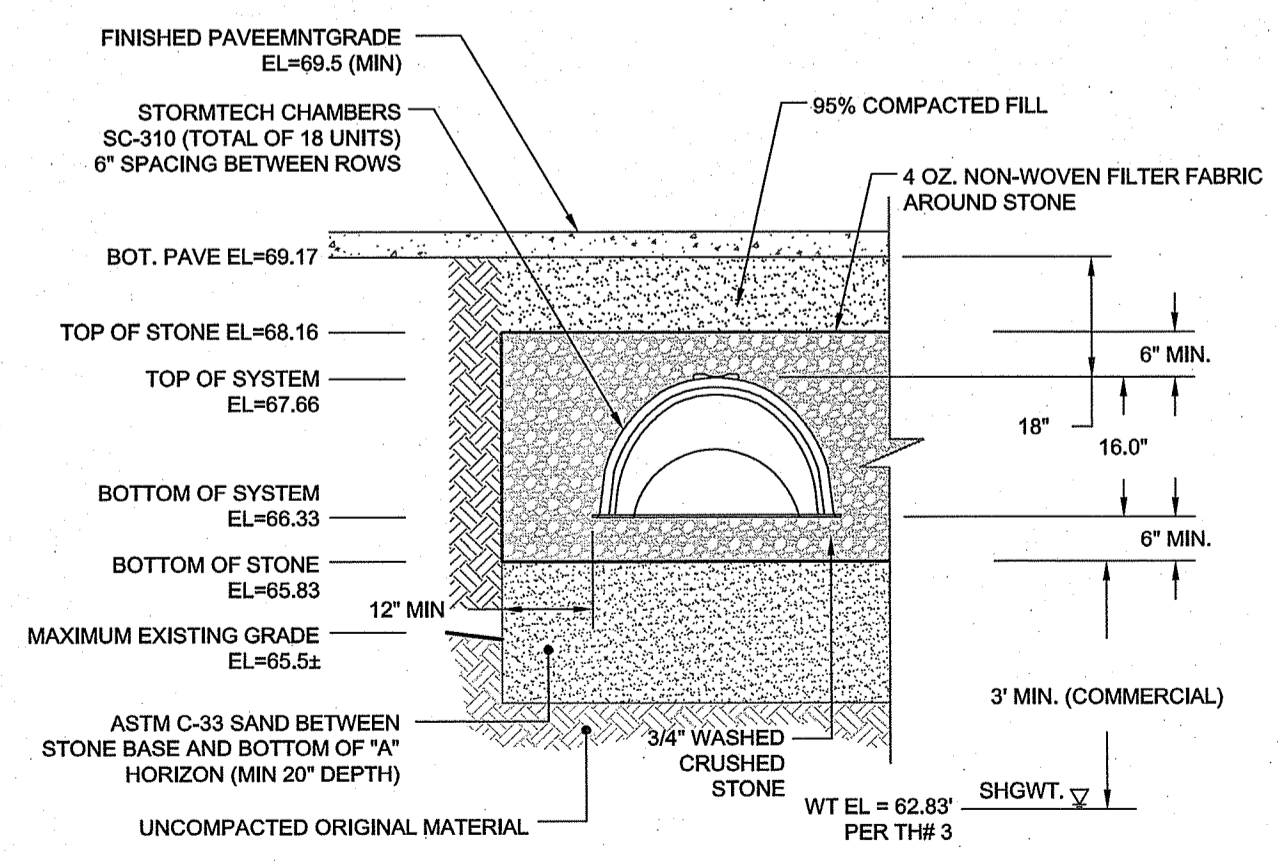
SAND FILTER (D-5) SECTION DETAIL  
SCALE: NOT TO SCALE



SAND FILTER (D-5) CONCRETE WEIR DETAIL  
SCALE: NOT TO SCALE  
TYPICAL FOR FOUR (4) WEIRS



ROOF DOWNSPOUT TYPICAL DETAIL  
SCALE: NOT TO SCALE



STORMTECH INFILTRATION SYSTEM (D-6) SECTION  
SCALE: NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: JUN 13 2024 FILE #: 22-0254  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

2	RIDEM REVISIONS	30MAY24	
1	RIDEM REVISIONS	15JUN23	
0	STATE PERMITTING SUBMISSION	21JUN22	
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:	GES		
Scale:	AS SHOWN	Date:	REV. 15JUN23

Project Title:  
**VALLEY CROSSING II**  
A.P. 107NE LOT 402C  
VALLEY ROAD  
MIDDLETOWN  
RHODE ISLAND

Client/Owner:  
**THE JAMES H. CLAUSEN TRUST**  
7067 VILLA ESTELLE DRIVE  
ORLANDO, FL 32819

Issued for:  
**PERMITTING**

Drawing Title:  
**PROPOSED SITE DETAILS**

	Drawing Number:	<b>C-8</b>
	Sheet	<b>8 of 9</b>
	Project Number:	<b>18225.3</b>
	Survey Index:	

OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.

