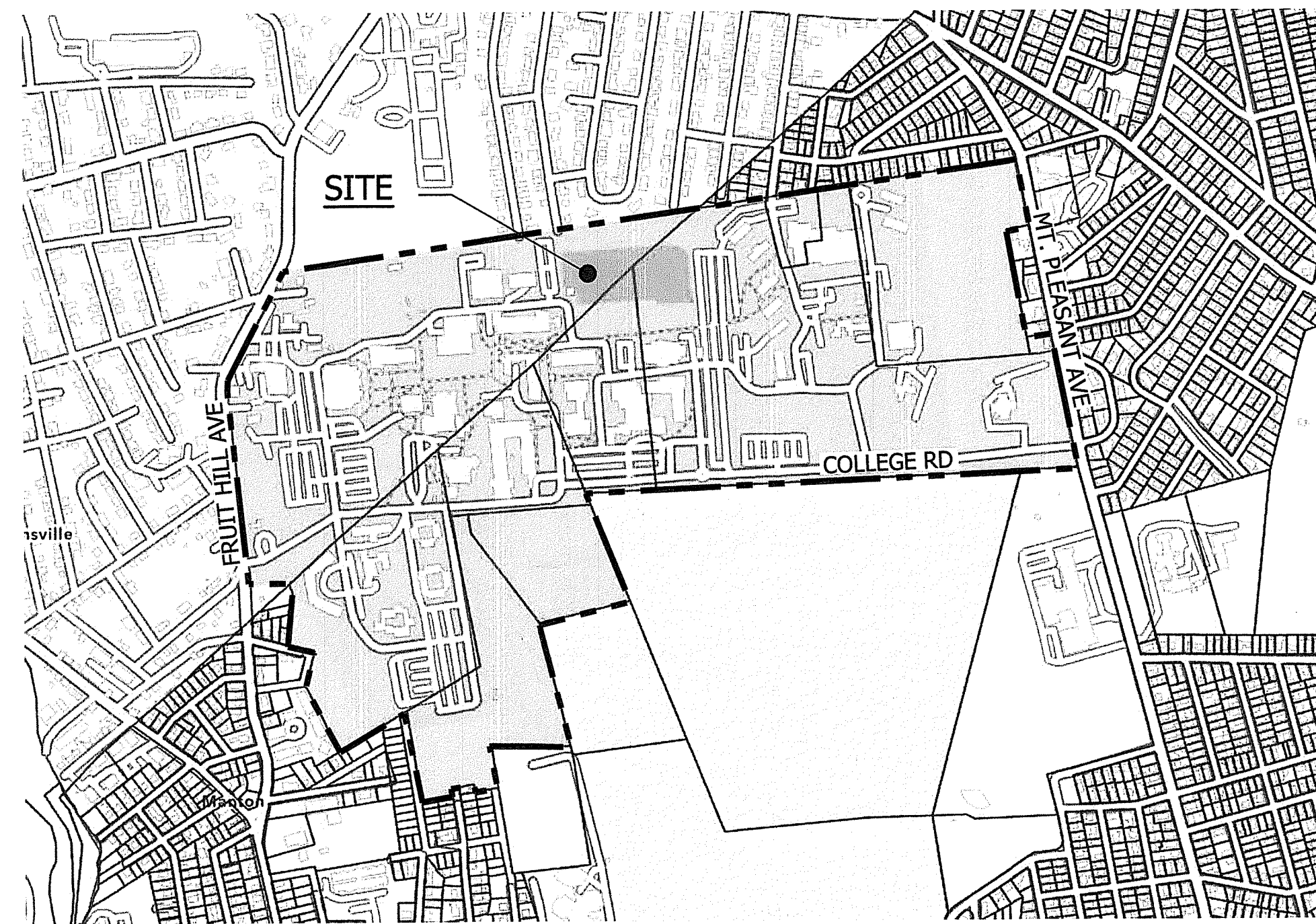


# RHODE ISLAND COLLEGE ALUMNI FIELD NEW SYNTHETIC TURF FIELD

600 MT. PLEASANT AVE  
PROVIDENCE, RI



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: MAR 29 2023 FILE #: 23-0006  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

VOL. I OF I

RIDEM REVIEW SET (RESPONSE 1)

MARCH 16, 2023

KAESTLE BOOS ASSOCIATES, INC. **KAESTLE BOOS** LANDSCAPE ARCHITECTURE  
associates, inc

CDW CONSULTANTS



CIVIL ENGINEERING

CONSULTING ENGINEERING SERVICES (CES)



ELECTRICAL ENGINEERING

WELCH ASSOCIATES SURVEYORS

SURVEYING

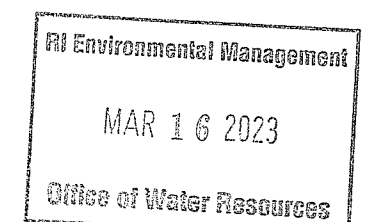
LGCI

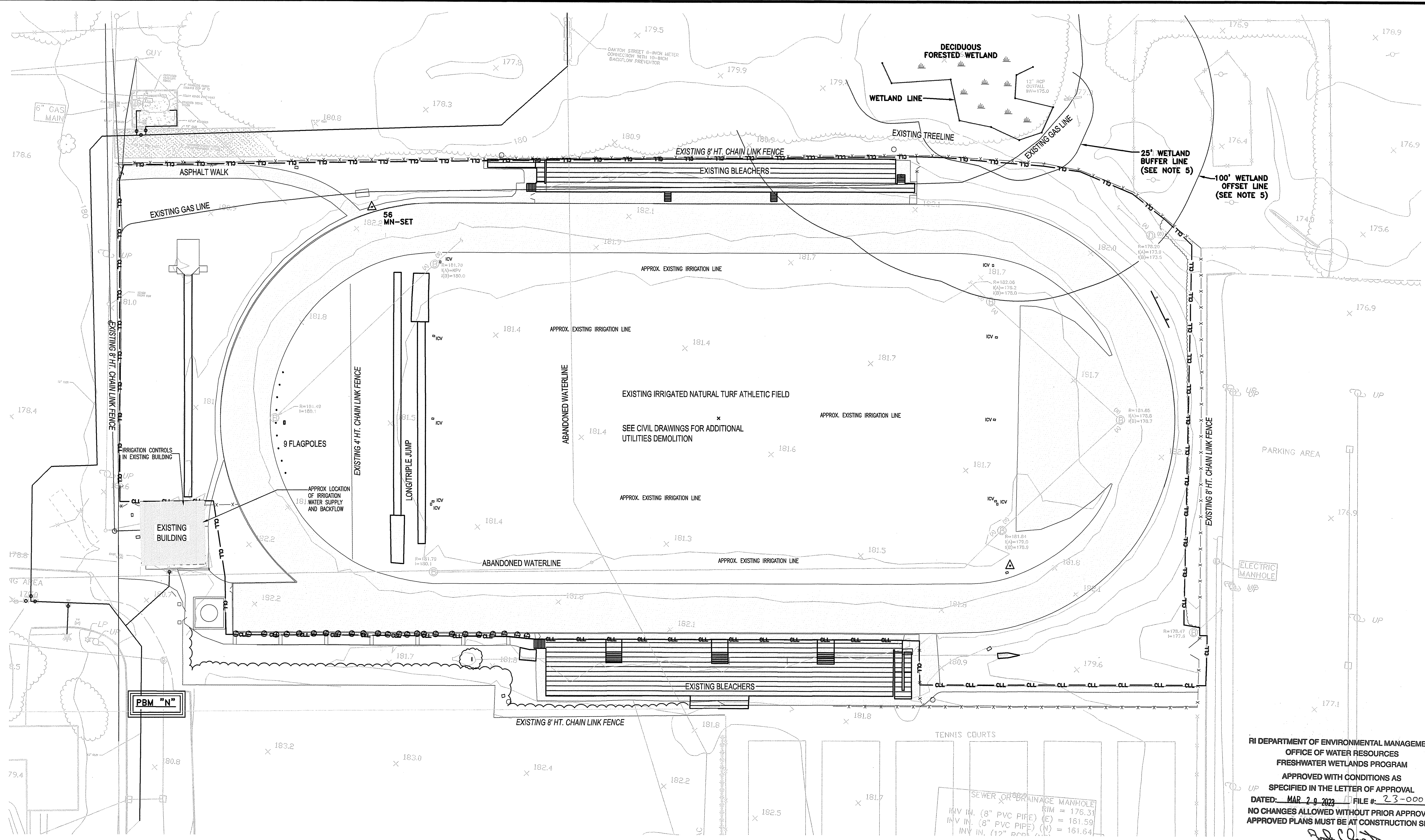


GEOTECHNICAL

**DRAWING LIST:**

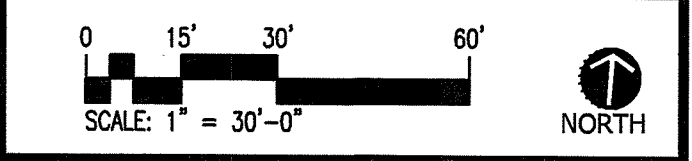
L0.00	EXISTING CONDITIONS
L1.00	SITE DEMOLITION PLAN
L2.00	SITE LAYOUT & MATERIALS PLAN
L3.00	SITE GRADING PLAN
L4.00	SITE DETAILS
L4.01	SITE DETAILS
C1.00	SITE DRAINAGE PLAN
C2.00	SOIL EROSION AND SEDIMENT CONTROL PLAN
C3.00	CIVIL DETAILS
C3.01	CIVIL DETAILS
E0.00	ELECTRICAL ABBREVIATIONS, NOTES, & SYMBOLS
E1.00	ELECTRICAL FIELD PLAN
E5.00	ELECTRICAL DETAILS





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OCTOBER 14, 2022	RID
OCTOBER 14, 2022	RIDEM REVIEW
MARCH 7, 2023	RIDEM REVIEW 2

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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DATED: MAR 20 2023 FILE #: 23-0006  
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Randy Chapman*



**RHODE ISLAND COLLEGE**  
**ALUMNI FIELD**

600 MT PLEASANT AVE  
PROVIDENCE, RI 02908  
TAX PLAT = 121; LOT NUMBERS: 1 & 3  
TAX PLAT = 9; LOT NUMBERS: 327

PROJECT NO: \_\_\_\_\_ DRAWN BY: EOR

**EXISTING CONDITIONS**  
Environmental Management  
MAR 16 2023  
Office of Water Resources DRAWING NO: \_\_\_\_\_

**LEGEND**

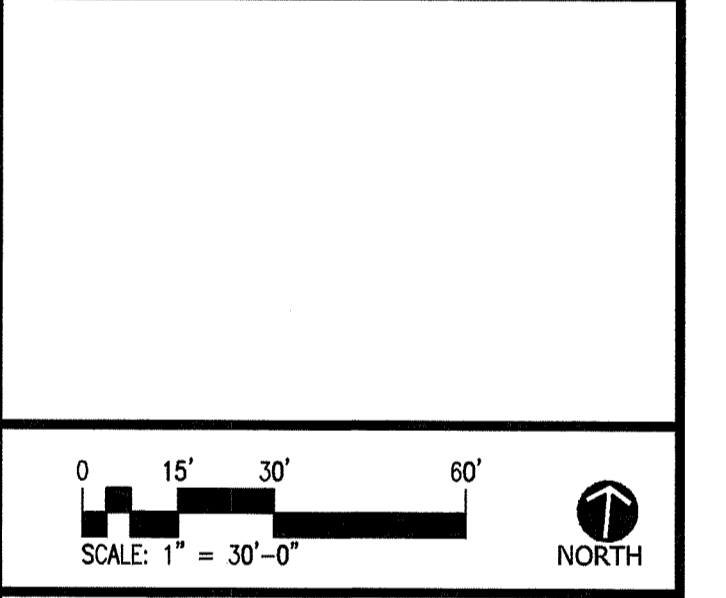
---	PROPERTY LINE
-x-x-	CHAIN LINK FENCE
—CLL—	CONSTRUCTION LIMIT LINE
○○○○	STONE WALL
~~~~~	TREELINE

- EXISTING CONDITIONS NOTES**
- EXISTING CONDITIONS INFORMATION BASED FROM 2022 FIELD SURVEY BY WELSH SURVEYING. FIELD SURVEY DOES NOT INDICATE ANY PROPERTY LINES OR EASEMENTS WITHIN THE AREA OF WORK, OR AREAS IMMEDIATELY ADJACENT
  - FIELD SURVEY LIMITS INCLUDE AREAS WITHIN FENCE SURROUNDING FIELD. TOPOGRAPHY AND LOCATIONS INFORMATION SHOWN OUTSIDE THESE AREAS ARE FROM PROVIDENCE G.I.S. DATA AND ARE TO BE CONSIDERED APPROXIMATE.
  - EXISTING WATER SUPPLY AND IRRIGATION SHOWN ON THIS PLAN WAS NOT FIELD LOCATED BY SURVEY AND IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND EXTENTS.
  - EXISTING LIGHTING, COMMUNICATION, ELECTRIC CONDUIT AND POTABLE WATER LINES EXIST WITHIN THE PROPOSED AREA OF WORK AND ARE NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATION WITHIN THE PROJECT LIMITS, AND IS RESPONSIBLE FOR PROTECTION, AND REPAIR OF EXISTING CONDUITS/ELECTRICAL LINES DISTURBED BY CONSTRUCTION ACTIVITIES.
  - CONTRACTOR SHALL ESTABLISH PROJECT BENCHMARKS FOR CONSTRUCTION PRIOR TO ANY DEMOLITION AND SHALL MAINTAIN THEM THROUGH CONSTRUCTION.



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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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**RHODE ISLAND COLLEGE ALUMNI FIELD**

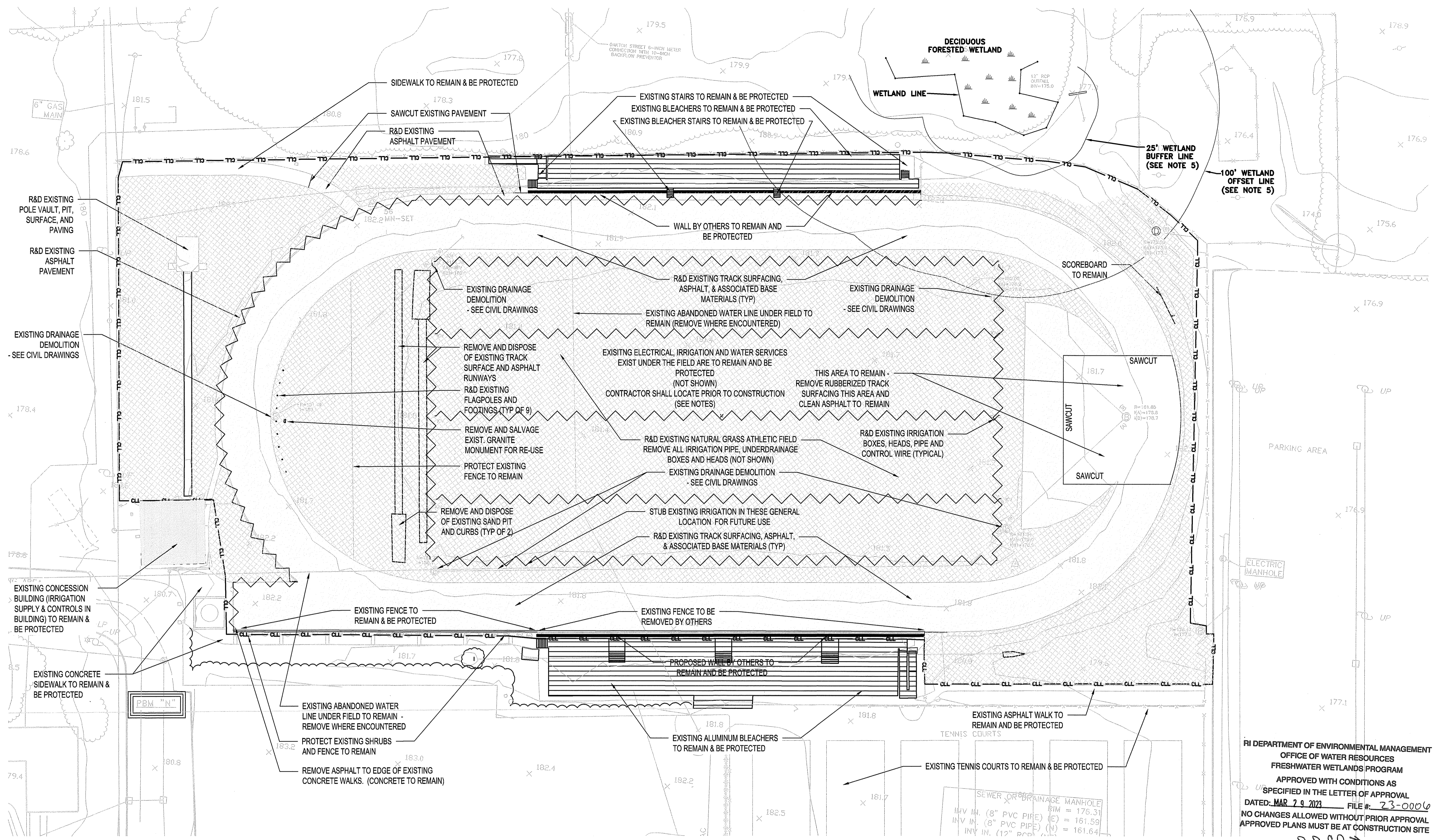
600 MT PLEASANT AVE  
PROVIDENCE, RI 02908  
TAX PLAT = 121; LOT NUMBERS: 1 & 3  
TAX PLAT = 9; LOT NUMBERS: 327

PROJECT NO.: \_\_\_\_\_ DRAWN BY: EDR

**SITE DEMOLITION PLAN**

Environmental Management

SHEET #: 2 OF 14 DATE: MAR 16 2023 DRAWING NO.: L1.00

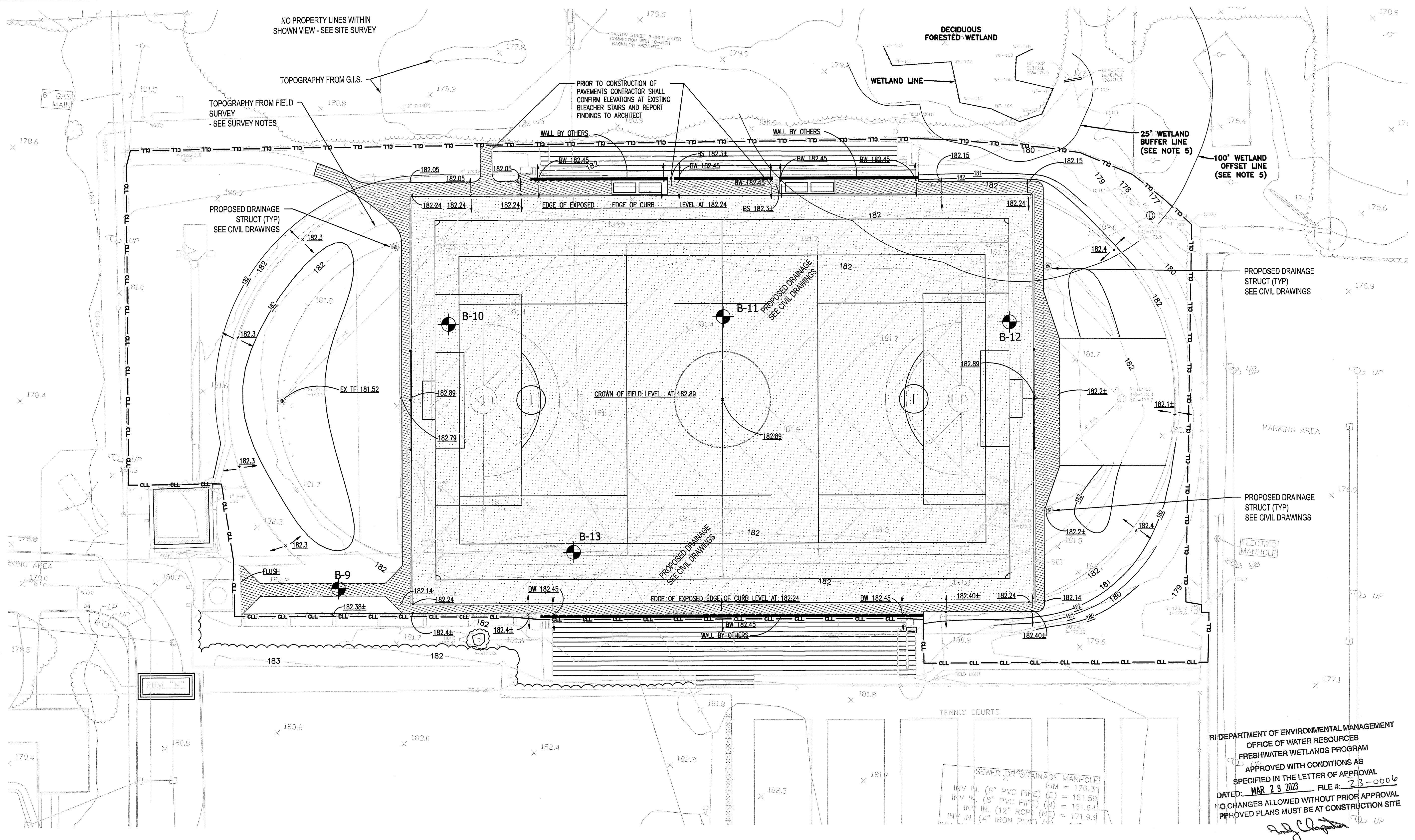


**SITE DEMOLITION LEGEND**

	PROPERTY LINE
	CONSTRUCTION LIMIT LINE
	REMOVE FENCE/RAILING/PIPE
	REMOVE AND DISPOSE OF EX. NATURAL TURF
	REMOVE RUBBER TRACK SURFACE AND ASPHALT TRACK PAVING
	REMOVE ASPHALT PAVING
R&D	REMOVE & DISPOSE
R&S	REMOVE & SALVAGE
X	R&D EXISTING FEATURE

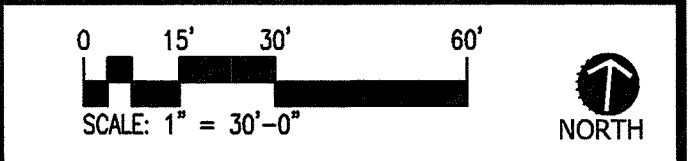
- DEMOLITION NOTES**
- R & D = REMOVE AND DISPOSE OF IMPROVEMENTS OFF SITE IN A LEGAL MANNER. ALL MATERIAL TO BE DISPOSED OF BECOMES PROPERTY OF THE CONTRACTOR. REMOVE IMPROVEMENTS COMPLETELY, TO THEIR FULL DEPTHS, UNLESS OTHERWISE NOTED. BACKFILL EXCAVATIONS PER SPECIFICATION.
  - EXISTING LIGHTING, COMMUNICATION, ELECTRIC CONDUIT AND POTABLE WATER LINES EXIST WITHIN THE CONTRACT LIMITS. LOCATIONS NOT DOCUMENTED. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATION WITHIN THE PROJECT LIMITS, AND IS RESPONSIBLE FOR PROTECTION, AND REPAIR OF EXISTING CONDUITS/ELECTRICAL LINES DISTURBED BY CONSTRUCTION ACTIVITIES.
  - COORDINATE ALL UTILITY DEMOLITION OPERATIONS WITH OWNER. MAINTAIN SYSTEMS IN OPERATION AS REQUIRED.
  - CONTRACTOR SHALL ESTABLISH PROJECT BENCHMARKS PRIOR TO ANY DEMOLITION AND SHALL MAINTAIN THEM THROUGH CONSTRUCTION.
  - CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES TO PREVENT SILT, SOIL AND DUST FROM MIGRATING OUTSIDE OF THE PROJECT LIMITS. CONTRACTOR IS RESPONSIBLE FOR WEEKLY CLEANING AND MAINTENANCE OF ADJACENT DRIVE AND ROAD AFFECTED BY THE CONSTRUCTION WORK. SEE EROSION CONTROL PLANS.
  - REMOVE EXISTING IRRIGATION LINES, CONTROL WIRING, HEADS, VALVES AND VALVE BOXES AS SHOWN. LOCATIONS AND QUANTITIES ARE APPROXIMATE AND CONTRACTOR SHALL VERIFY QUANTITIES IN FIELD PRIOR TO SUBMITTING HIS BID.





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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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DATED: MAR 29 2023 FILE #: 23-0006  
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APPROVED PLANS MUST BE AT  
*Randy Chapman*

SEWER OR DRAINAGE MANHOLE	
INV IN. (8" PVC PIPE) (R) =	176.31
INV IN. (8" PVC PIPE) (E) =	161.59
INV IN. (12" RCP) (N) =	161.64
INV IN. (4" IRON PIPE) (S) =	171.93

**GRADING LEGEND**

	BASE BID CONSTRUCTION LIMIT LINE		DRAINAGE ARROW
	EXISTING CONTOUR		BOTTOM OF WALL
	PROP. INTERMEDIATE CONTOUR		TOP OF WALL
	PROP. INTERVAL CONTOUR		BOTTOM OF STAIRS
	PROPOSED SPOT ELEVATION		TOP OF STAIRS
	EXISTING SPOT GRADE		BOTTOM OF CURB
			TOP OF CURB
			TOP OF FRAME
			HIGH POINT
			LOW POINT
			EXISTING

**GRADING NOTES**

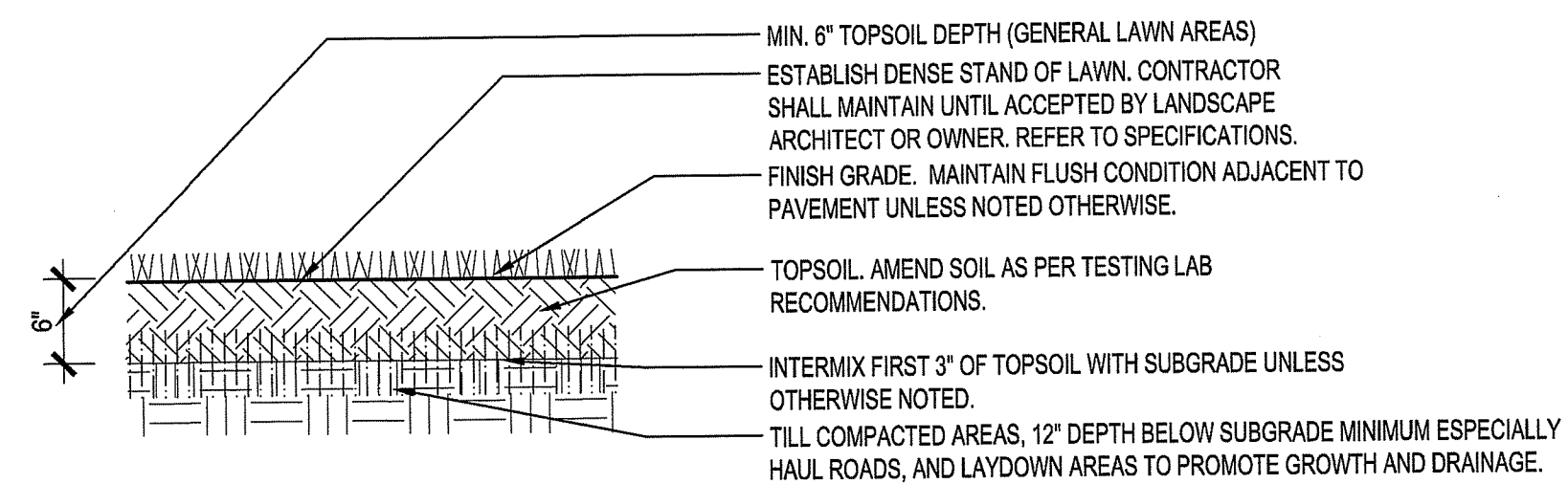
- NOTE: ALL SPOT GRADES ARE TO TOP OF ASPHALT PAVEMENT OR TOP OF INFILL (NOT TOP OF GRASS BLADES)
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS INFORMATION. ESPECIALLY GRADES AT BOTTOM OF EXISTING STAIRS AND RAMPS. BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION FOR REVIEW AND CLARIFICATION
- SMOOTHLY BLEND ALL PROPOSED GRADES TO EXISTING CONDITIONS. ROUND OFF TOP AND TOE OF ALL SLOPES.
- PAVED WALKS NOT TO EXCEED 5% (1:20) MAXIMUM SLOPE OR 2% (1/4") CROSS PITCH UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL EXPANSION JOINTS AND SCORE JOINTS SHALL BE FLUSH UNLESS NOTED OTHERWISE.
- ALL TRANSITIONS BETWEEN TURF, CURBING, ASPHALT AND LAWN SHALL BE FLUSH UNLESS OTHERWISE NOTED.
- PROPOSED DRAINAGE SHOWN FOR REFERENCE AND COORDINATION PURPOSES ONLY - SEE CIVIL DRAWINGS



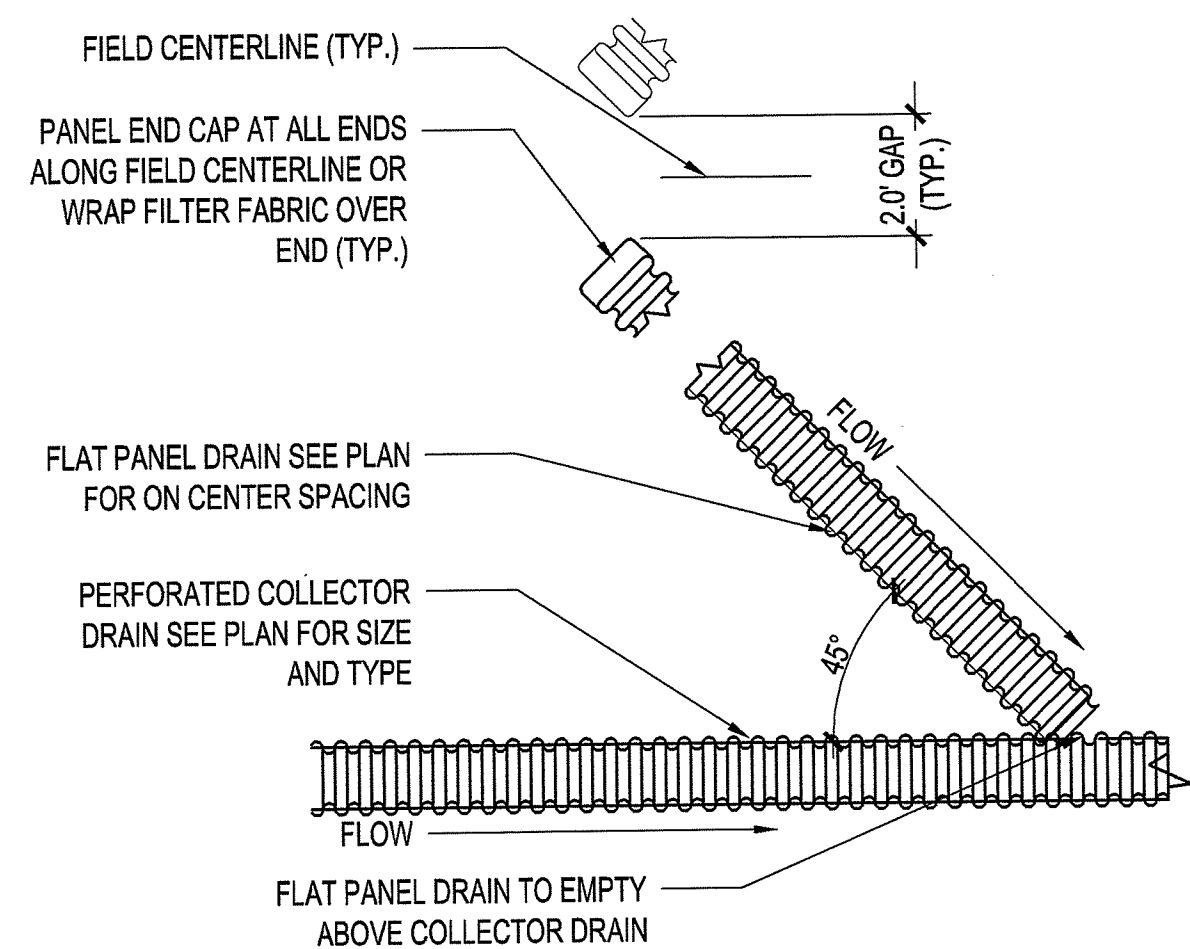
**RHODE ISLAND COLLEGE ALUMNI FIELD**

600 MT PLEASANT AVE  
PROVIDENCE, RI 02908  
TAX PLAT = 121; LOT NUMBERS: 1 & 3  
TAX PLAT = 8; LOT NUMBERS: 327

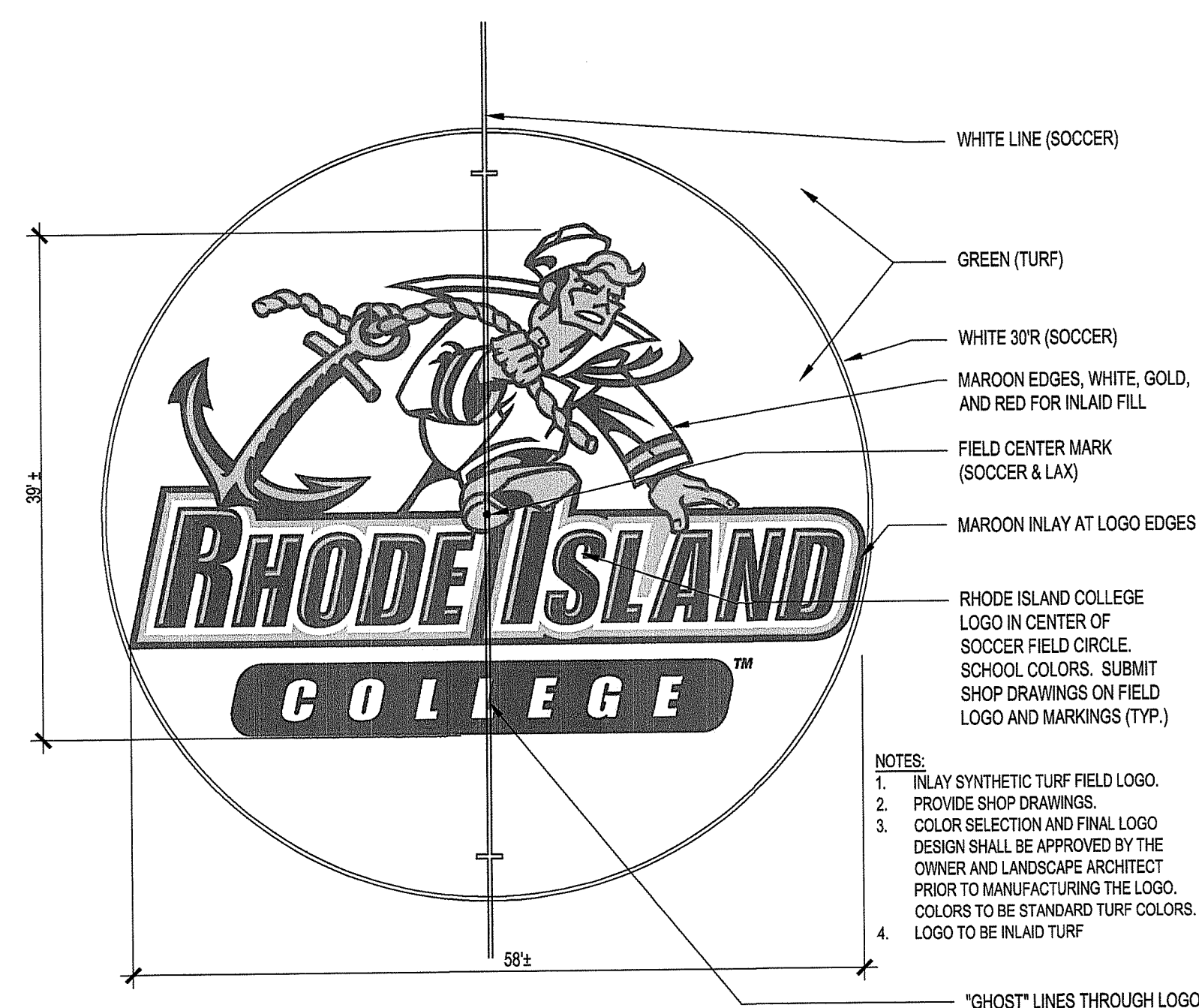
PROJECT NO.: DRAWN BY: EOR  
**SITE GRADING PLAN**  
Environmental Management  
MAR 16 2023  
Office of Water Resources



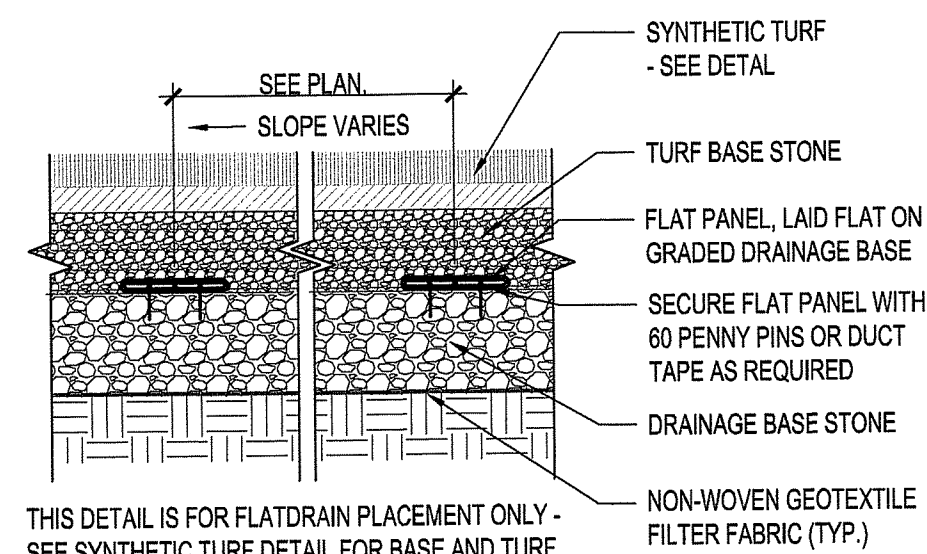
**9 LAWN PLANTING (TYP.)**  
 NOT TO SCALE



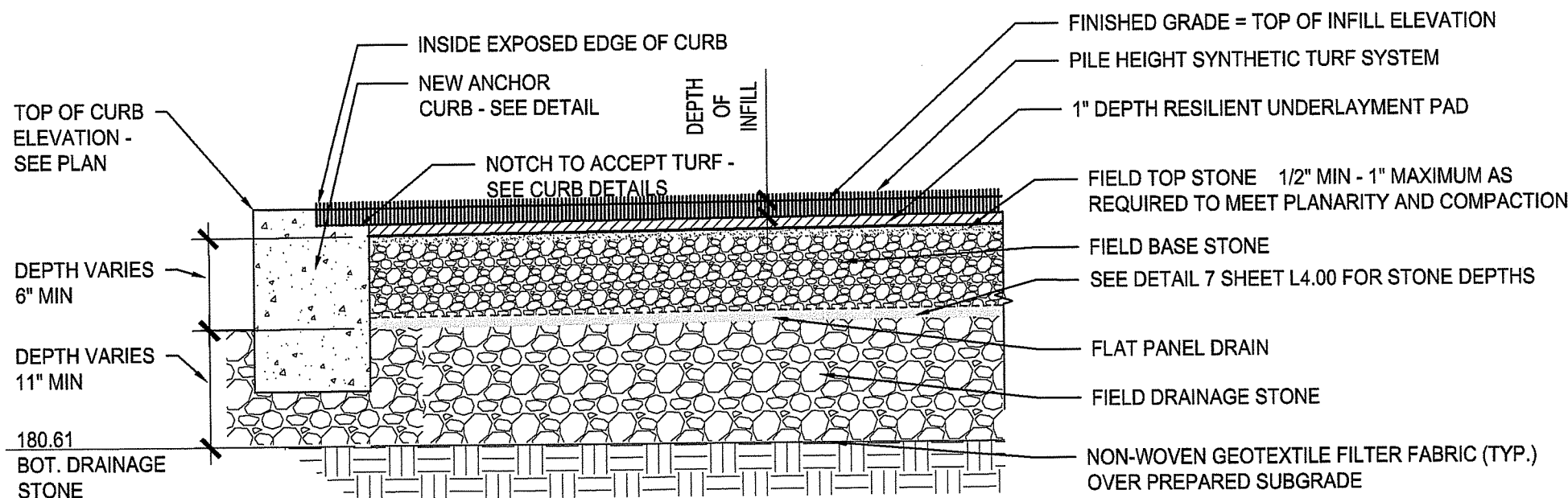
**10 FLAT PANEL & COLLECTOR DRAIN LAYOUT**  
 NOT TO SCALE



**11 SYNTHETIC TURF FIELD CENTER LOGO**  
 NOT TO SCALE

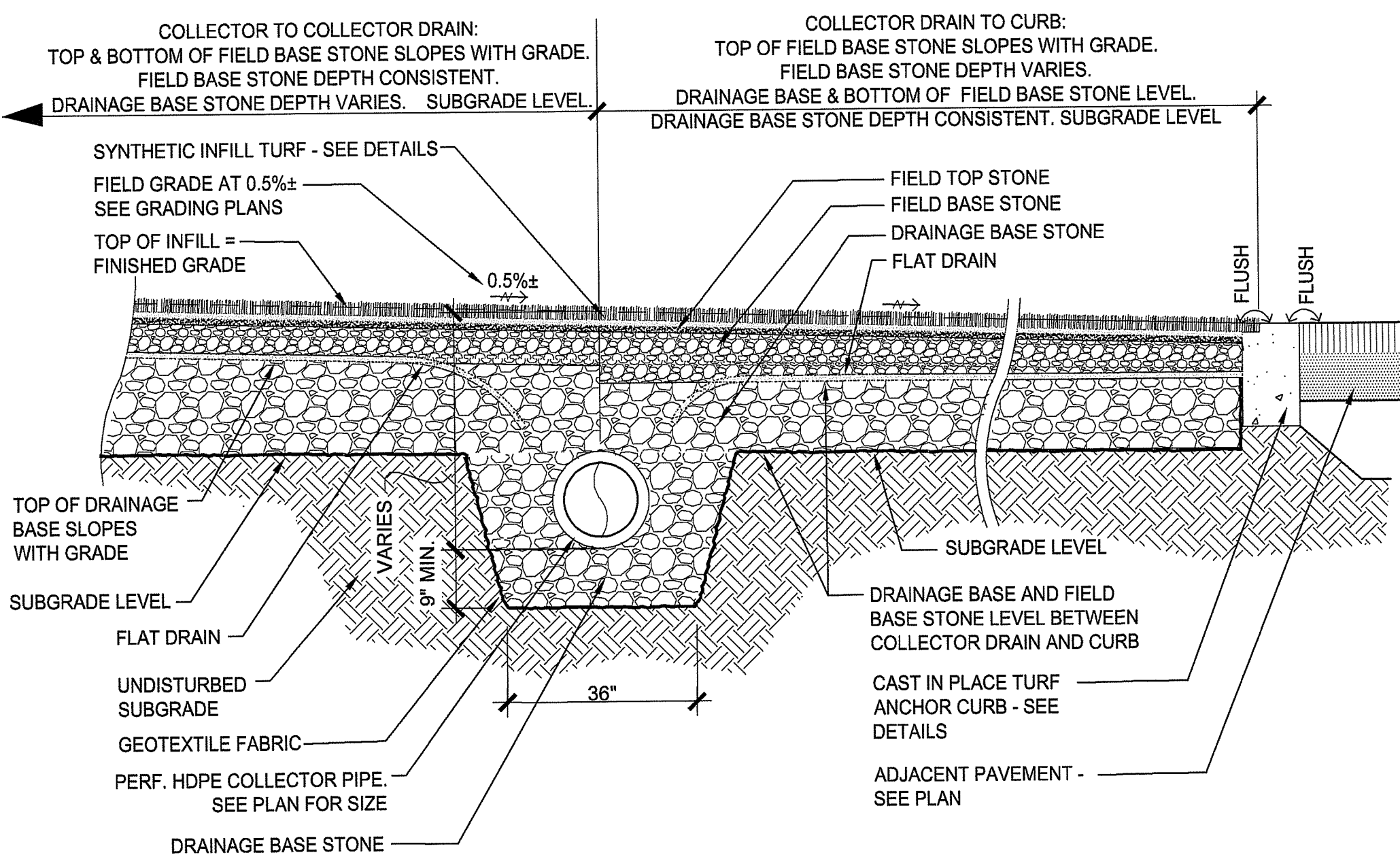


**5 FLAT PANEL DRAIN**  
 NOT TO SCALE

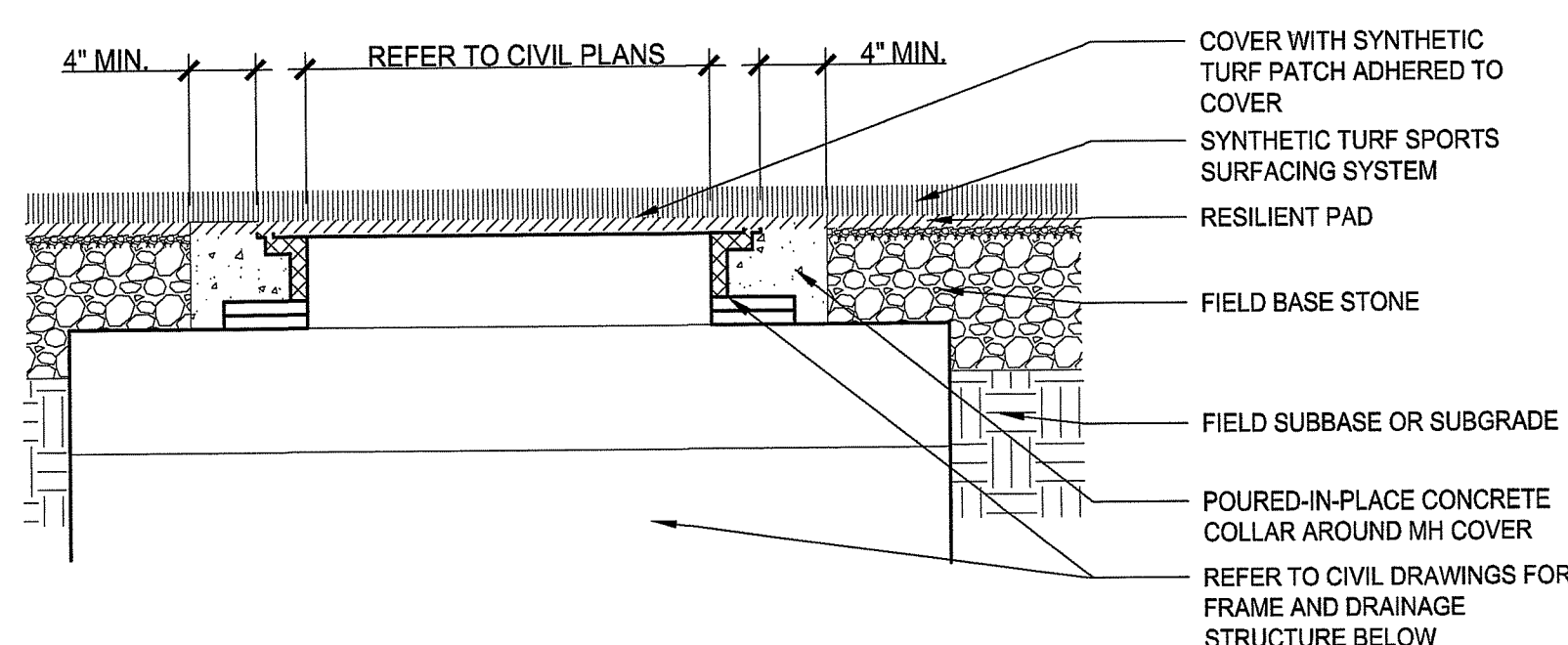


NOTES:  
 1. CONTRACTOR SHALL DETERMINE AMOUNT OF FIELD BASE TOP STONE AND FIELD BASE BOTTOM STONE REQUIRED WITH RESPECT TO METHOD OF PLACEMENT OF STONE AND ACHIEVING REQUIRED PLANARITY AND FINAL COMPACTION. FIELD TOP STONE SHALL NOT EXCEED A 1" DEPTH.  
 2. FIELD BASE STONE AND FIELD DRAINAGE STONE: DEPTH VARIES: SEE DETAIL 7 SHEET L4.00. FIELD DRAINAGE STONE AND FIELD BASE STONE TO BE WASHED. SEE SPECIFICATION

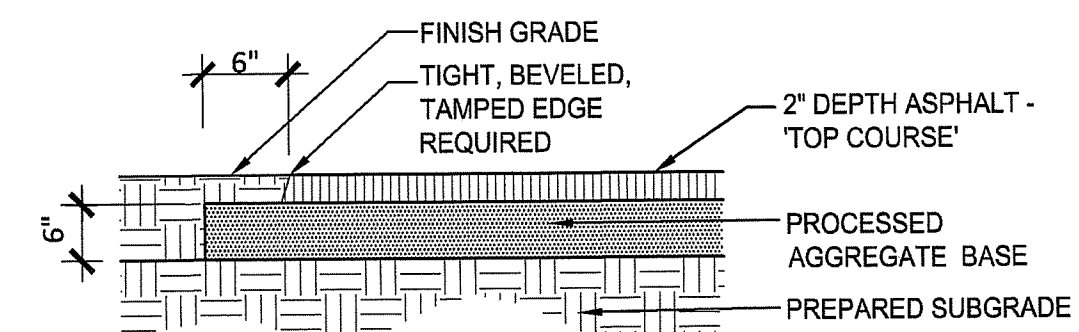
**6 SYNTHETIC TURF**  
 NOT TO SCALE



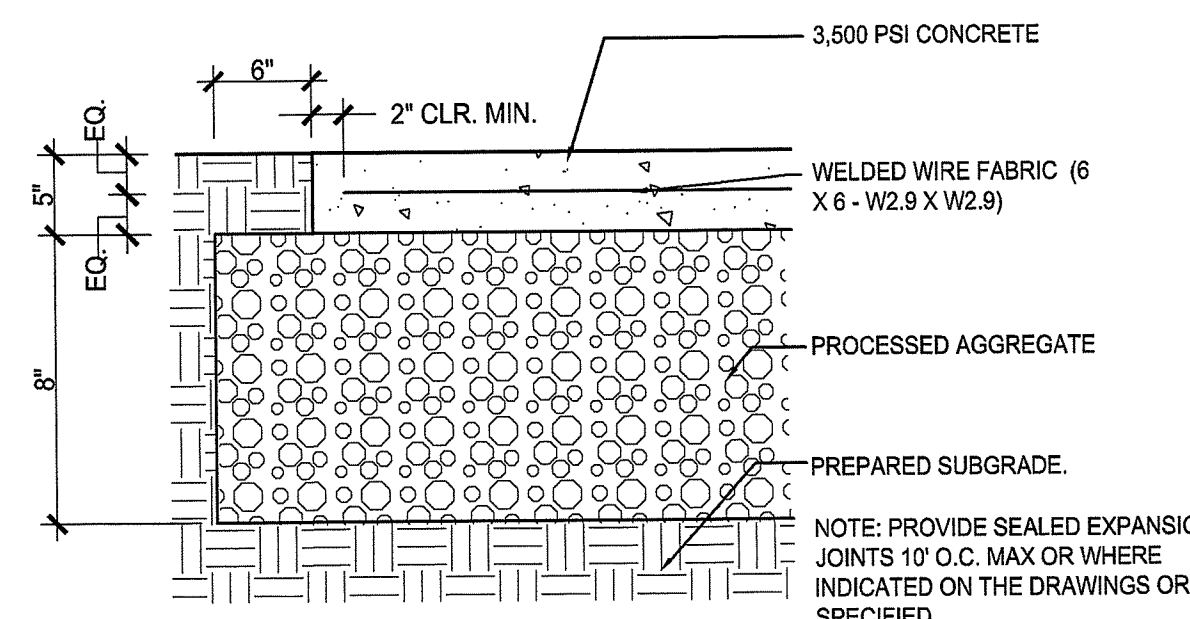
**7 SYNTHETIC COLLECTOR DRAIN & FIELD EDGE**  
 NOT TO SCALE



**8 MANHOLE @ SYNTHETIC TURF FIELD**  
 NOT TO SCALE

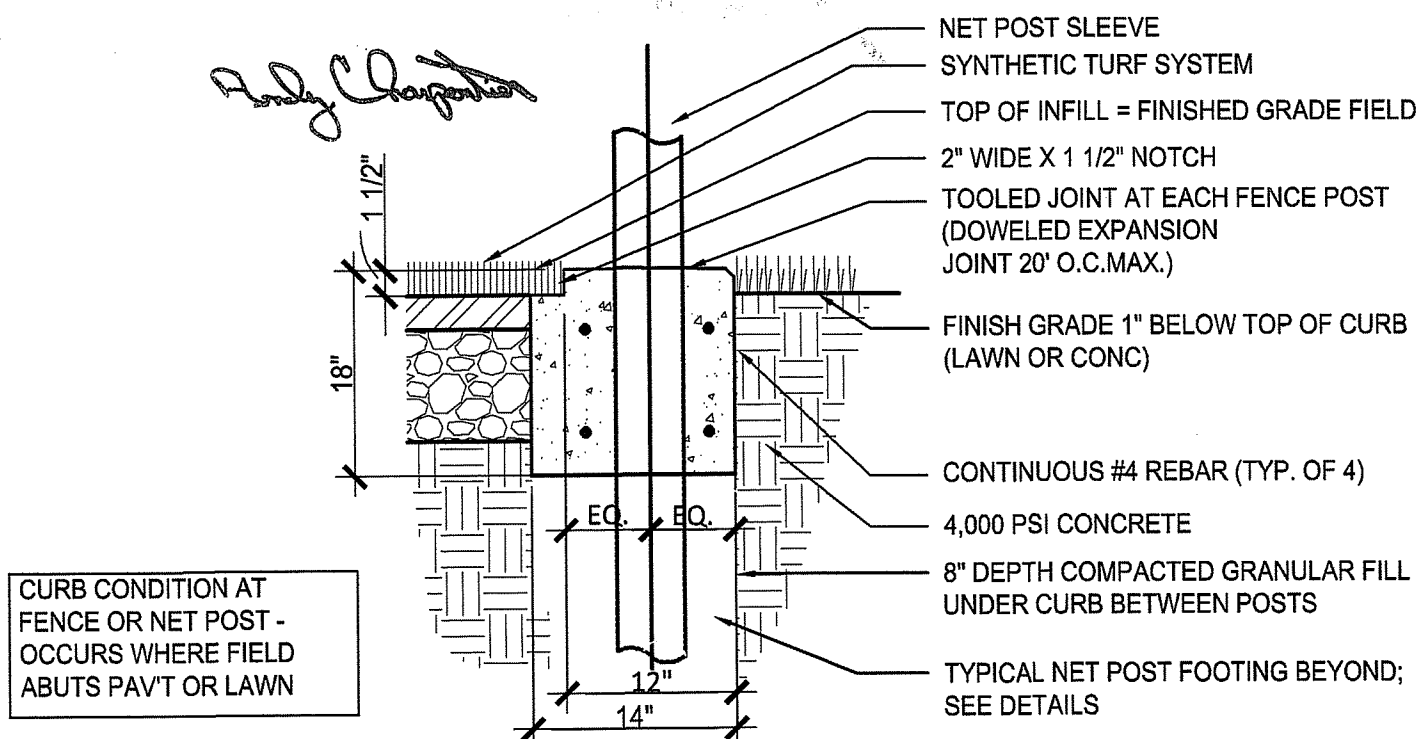


**1 ASPHALT WALK - SINGLE COURSE**  
 NOT TO SCALE

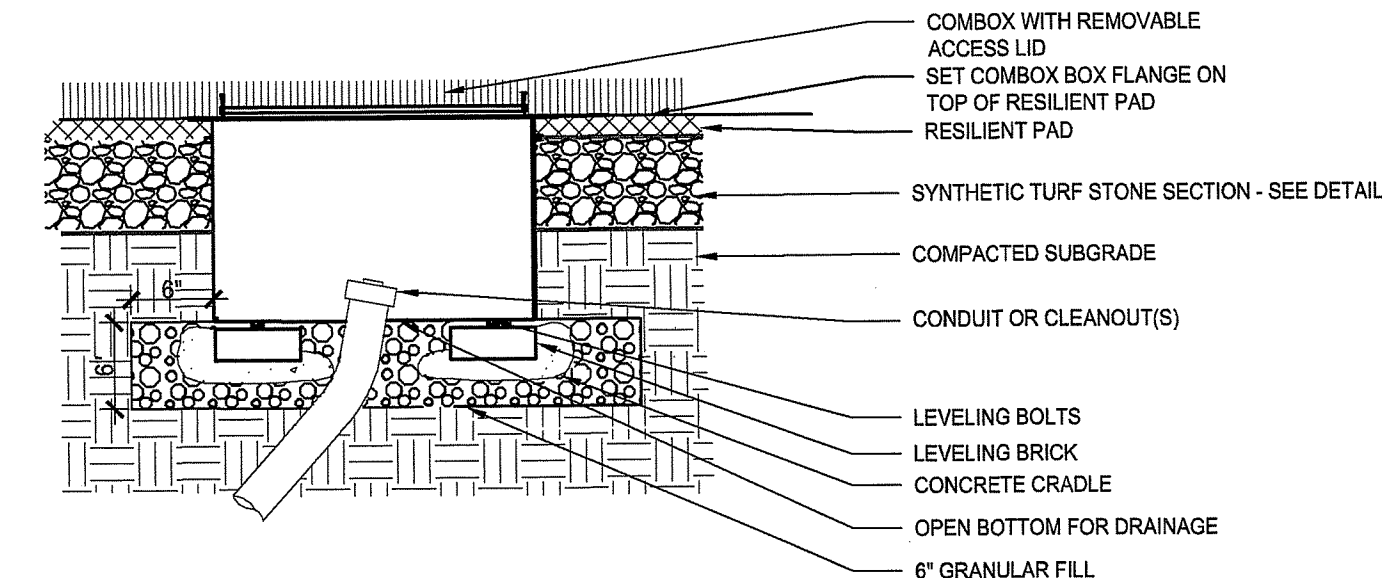


**2 CONCRETE PAD**  
 NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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 DATED: MAR 29 2023 FILE # 23-0006  
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**3 CONCRETE ANCHOR CURB**  
 NOT TO SCALE



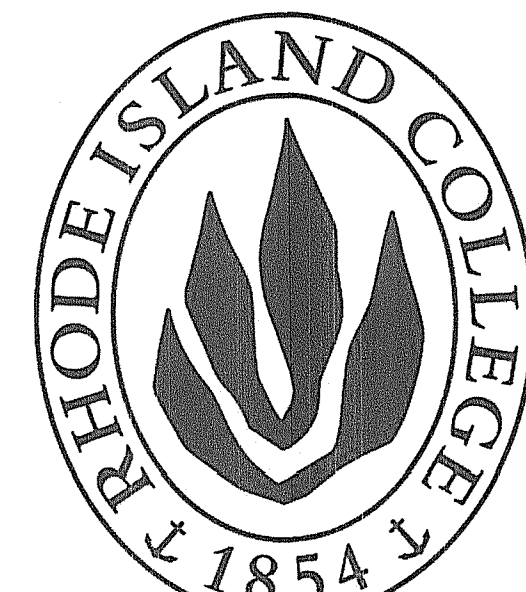
NOTES:  
 1. THIS DETAIL IS DIAGRAMMATIC. REFER TO MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.  
 2. SEE SPECIFICATION FOR MODEL. MODEL TO BE SPECIFIC TO TYPE OF SURROUNDING SURFACE.

**4 COMBOX IN SYNTHETIC TURF**  
 NOT TO SCALE



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OCTOBER 14, 2022	BID
OCTOBER 14, 2022	RIDEM REVIEW
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**RHODE ISLAND COLLEGE ALUMNI FIELD**

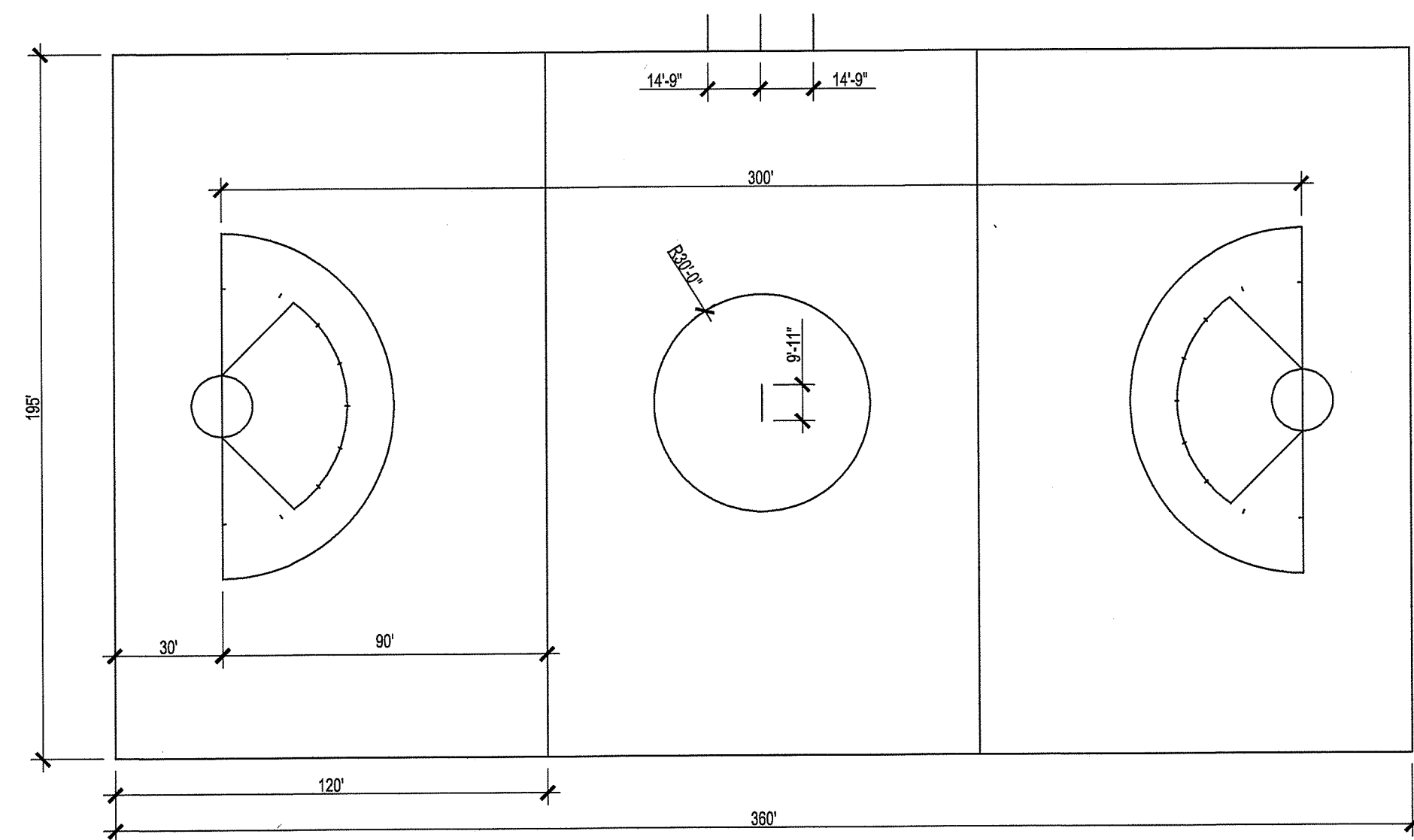
600 MT PLEASANT AVE  
 PROVIDENCE, RI 02908  
 TAX PLAT = 121; LOT NUMBERS: 1 & 3  
 TAX PLAT = 9; LOT NUMBERS: 327

PROJECT NO: DRAWN BY: EQR

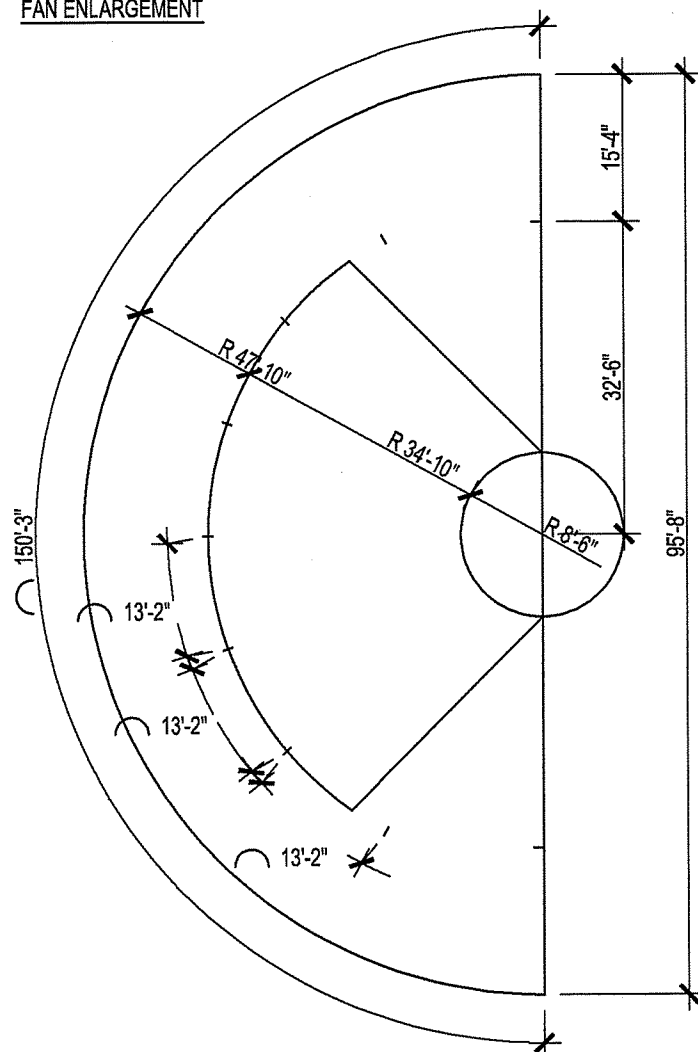
**SITE DETAILS**

Environmental Management  
 MAR 16 2023  
 Office of Water Resources  
 SHEET #: 5 OF 14 DRAWING NO.: L4.00

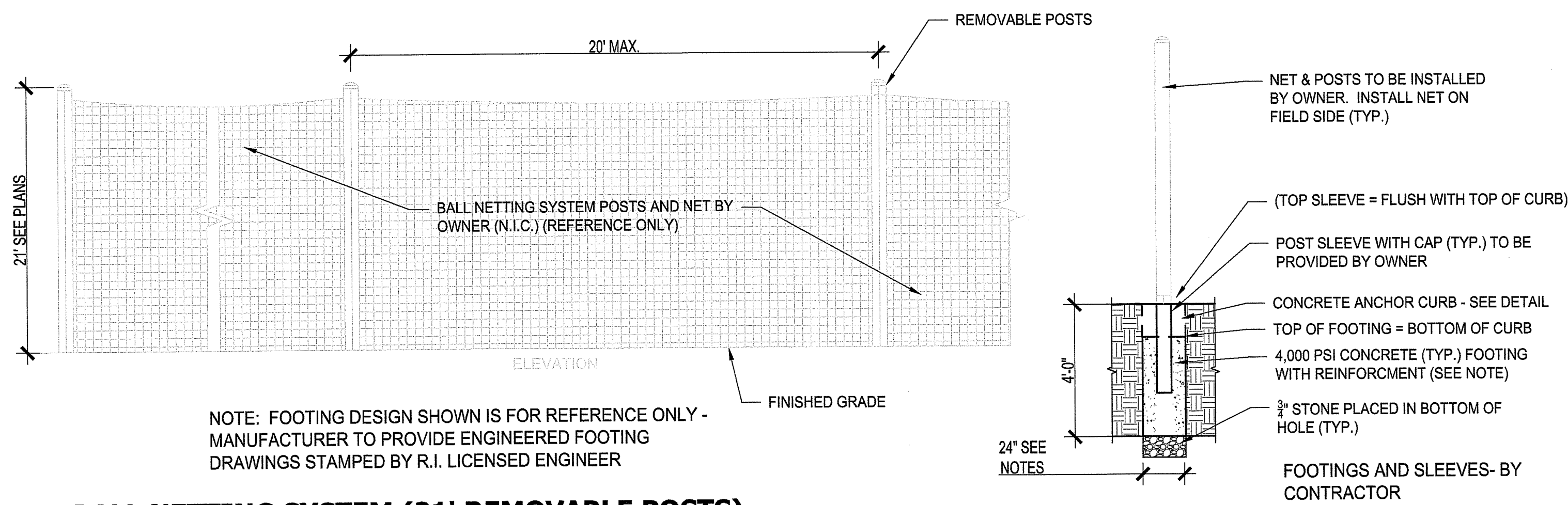
- NOTES:  
 1. TEAM AREAS TO BE PAINTED BY OTHERS (N.I.C.)  
 2. ALL DIMENSIONS FROM INSIDE EDGE TO INSIDE EDGE OF LINES.  
 3. PAINTED IN FIELD.



FAN ENLARGEMENT



**3 WOMEN'S LACROSSE (RED PAINTED MARKINGS)**  
 SCALE: N.T.S.



NOTE: FOOTING DESIGN SHOWN IS FOR REFERENCE ONLY - MANUFACTURER TO PROVIDE ENGINEERED FOOTING DRAWINGS STAMPED BY R.I. LICENSED ENGINEER

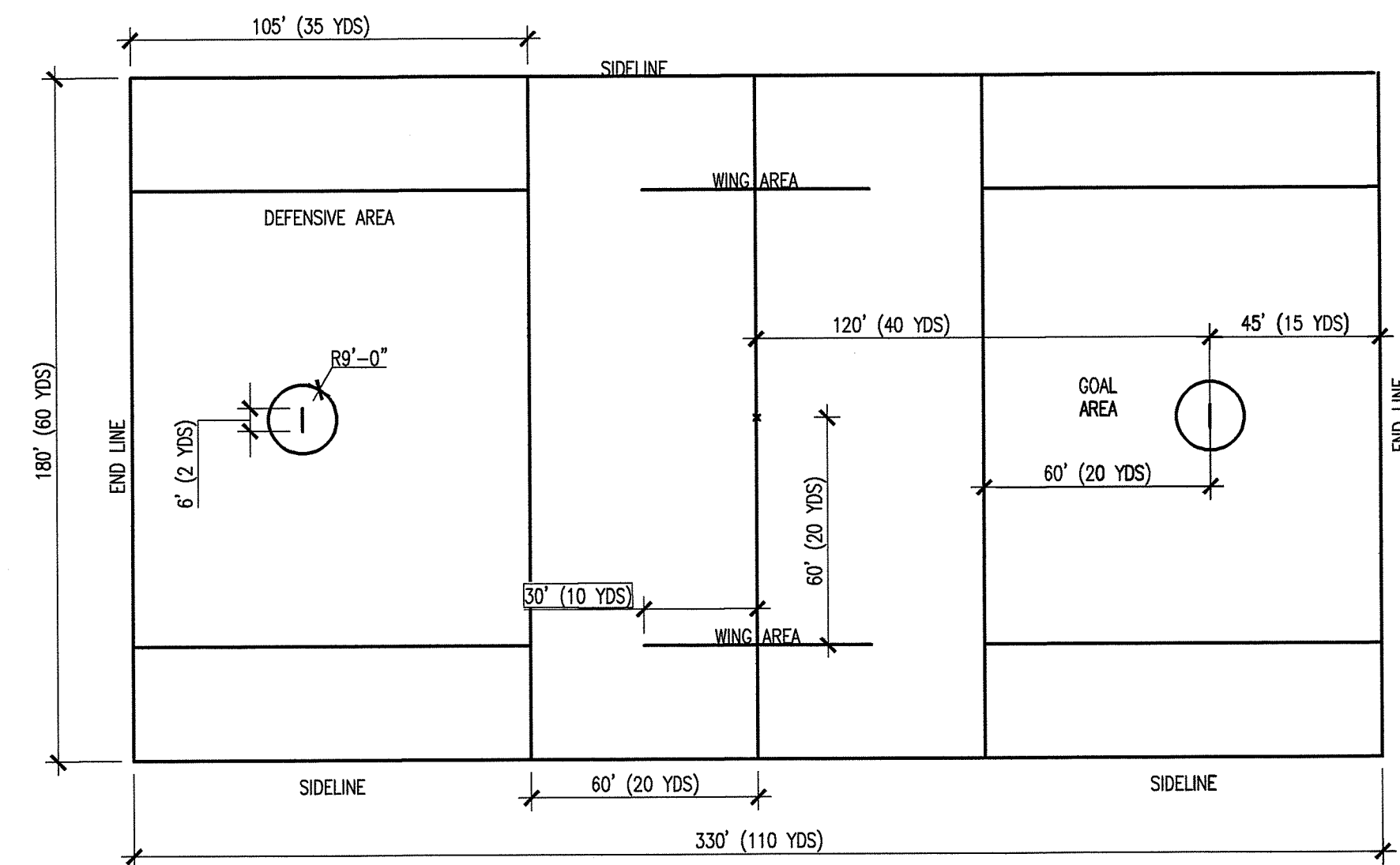
**4 BALL NETTING SYSTEM (21' REMOVABLE POSTS)**  
 NOT TO SCALE



INSTALLER TO SUBMITT COLORED TURF LAYOUT DRAWINGS PER SPECIFICATION FOR REVIEW BY THE ARCHITECT PRIOR TO TURF MANUFACTURE.

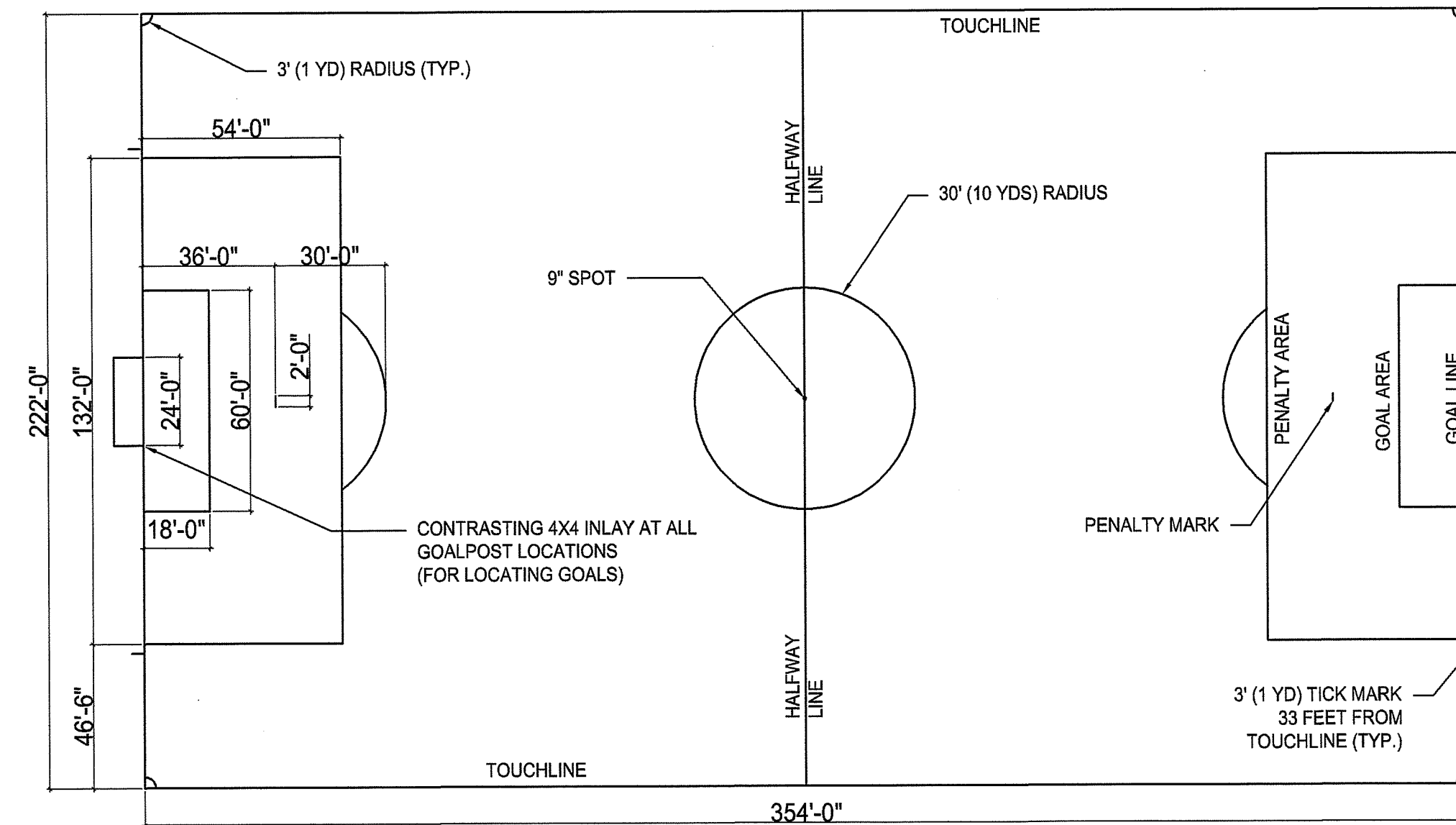
**5 TURF GRAPHICS**  
 NOT TO SCALE

- NOTES:  
 1. TEAM AREAS TO BE PAINTED BY OTHERS (N.I.C.)  
 2. ALL DIMENSIONS FROM INSIDE EDGE TO INSIDE EDGE OF LINES.  
 3. PAINTED IN FIELD.



**1 MEN'S LACROSSE FIELD LAYOUT (BLUE PAINTED MARKINGS)**  
 SCALE: N.T.S.

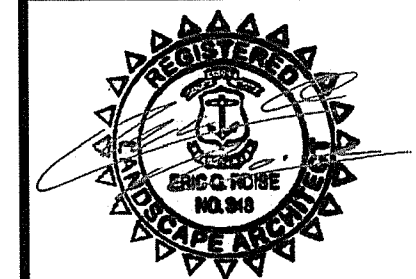
- NOTES:  
 1. ALL SOCCER DIMENSIONS ARE MEASURED FROM OUTSIDE EDGE OF LINE TO OUTSIDE EDGE OF LINE, UNLESS OTHERWISE NOTED.  
 2. SOCCER FIELD LINES TO BE PAINTED IN FIELD.



**2 SOCCER FIELD LAYOUT (WHITE PAINTED)**  
 NOT TO SCALE NCAA DIV III

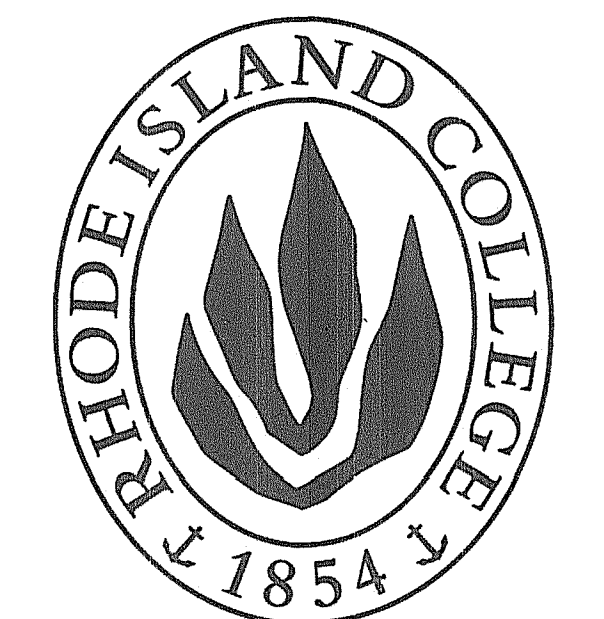
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: MAR 29 2023 FILE #: 23-0006  
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20 Newman Avenue, Suite 2001-A, Rumford, RI 02916  
 Phone: 401-270-0365  
 16 Chestnut Street, Suite 301, Foxborough, MA 02035  
 Phone: 508-549-9906 Fax: 508-549-9907  
 313 Congress Street, Suite 150, Boston, MA 02210  
 Phone: 617-752-2212  
 Email: kba@kba-architects.com Web: www.kba-architects.com



ISSUE DATE	
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OCTOBER 14, 2022	BID
OCTOBER 14, 2022	RIDEM REVIEW
MARCH 7, 2023	RIDEM REVIEW 2

REVISIONS	
DATE	REFERENCE



**RHODE ISLAND COLLEGE ALUMNI FIELD**

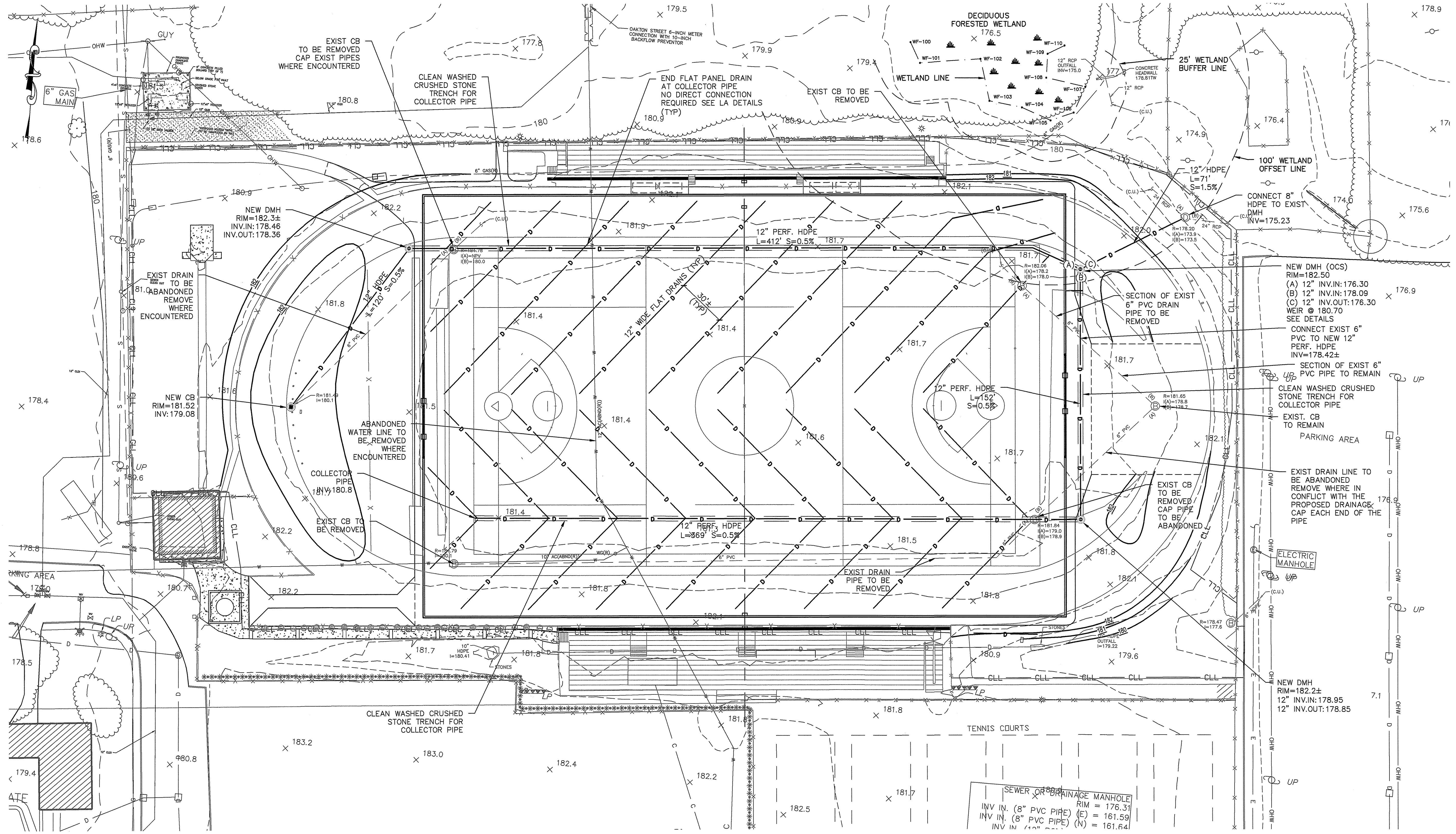
600 MT PLEASANT AVE  
 PROVIDENCE, RI 02908  
 TAX PLAT = 121; LOT NUMBERS: 1 & 3  
 TAX PLAT = 9; LOT NUMBERS: 327

PROJECT NO.: DRAWN BY: EDR

**SITE DETAILS**

MAR 16 2023  
 Office of Water Resources

SHEET #: DRAWING NO.:



**KAESTLE BOOS**  
associates, inc

20 Newman Avenue, Suite 2001-A, Rumford, RI 02916  
Phone: 401-270-0365

16 Chestnut Street, Suite 301, Foxborough, MA 02035  
Phone: 508-949-9906 Fax: 508-949-9907

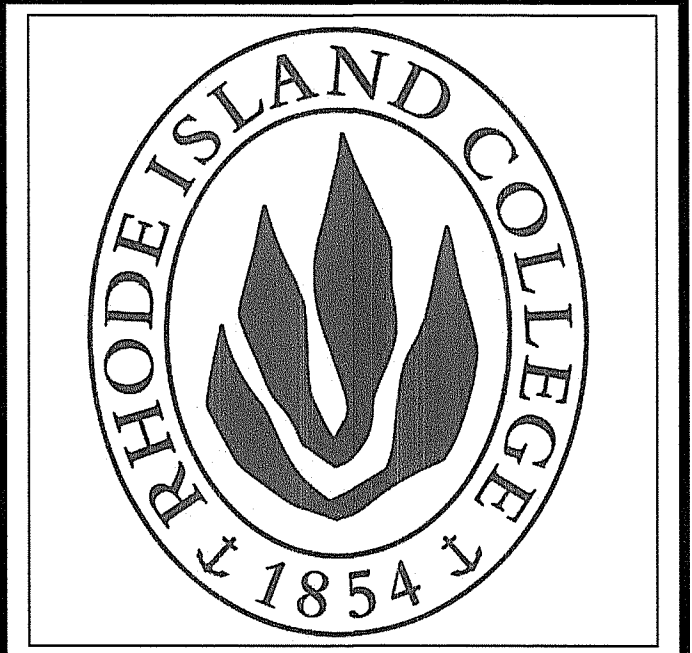
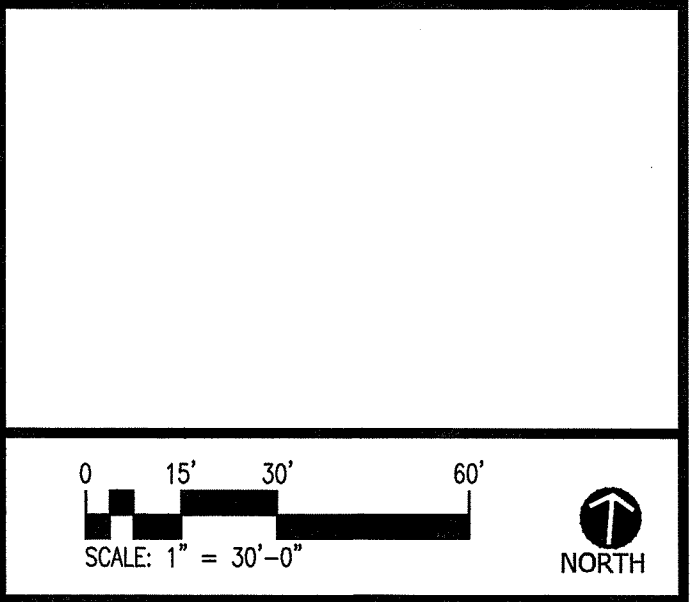
313 Congress Street, Suite 150, Boston, MA 02210  
Phone: 617-792-2212

Email: kba@kba-architects.com Web: www.kba-architects.com



ISSUE DATE	
DATE	DESCRIPTION
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REVISIONS	
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MARCH 2, 2023	RIDEM COMMENTS



**RHODE ISLAND COLLEGE ALUMNI FIELD**

600 MT PLEASANT AVE  
PROVIDENCE, RI 02908

TAX PLAT = 121; LOT NUMBERS: 1 & 3  
TAX PLAT = 9; LOT NUMBERS: 327

PROJECT NO.: 20130 DRAWN BY: ESW

**SITE DRAINAGE PLAN**

Environmental Management

MAR 16 2023

Office of Water Resources DRAWING NO.:

SHEET #:

7 OF 14 **C1.00**

**EXISTING CONDITIONS/SURVEY NOTES:**

- EXISTING CONDITIONS ARE BASED ON A SURVEY PREPARED BY WELCH ASSOCIATES LAND SURVEYORS, INC., 218 NORTH MAIN STREET, WEST BRIDGEWATER MA 02379, "TOPOGRAPHIC SURVEY ALUMNI FIELD/BOB BLACK TRACK, RHODE ISLAND COLLEGE PROVIDENCE RI", REVISED 12-19-22. LEVELING: CLASS V-3; TOPOGRAPHY: CLASS T-1.
- WETLANDS/RESOURCE AREAS WERE DELINEATED BY APPLIED BIO-SYSTEMS, INC. ON DECEMBER 05, 2022. FOR MORE INFORMATION SEE "LETTER OF FINDINGS", PREPARED BY APPLIED BIO-SYSTEMS, INC., DATED DECEMBER 06, 2022.

**DRAINAGE NOTES**

- THE PROPOSED SITE GRADING SHOWN ON THIS PLAN IS REFERENCE FROM SHEET L3.01 BY KAESTLE BOOS ASSOCIATES, INC. SEE SHEET L3.01 FOR ADDITIONAL NOTES AND INFORMATION ON THE PROPOSED GRADING.
- ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND THE DESIGNER PRIOR TO ANY SITE WORK WHICH WOULD BE AFFECTED.
- EXCEPT WHERE NOTED OTHERWISE, ALL ALL DRAINAGE PIPES WITHIN THE SITE SHALL BE HDPE.
- AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS SHOWN ON THE PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OPERATIONS. SEE EROSION CONTROL SHEET C1.01, FOR ADDITIONAL NOTES AND INFORMATION ON THE PROPOSED EROSION CONTROL.
- ALL NEW PROPOSED CATCH BASINS AND INLETS TO BE PROVIDED WITH SILT SACKS FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE DESIGNER. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER AND ENGINEER FOR RESOLUTION.
- CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION.
- ALL UTILITY COVERS, GRATES, ETC. TO REMAIN SHALL BE ADJUSTED TO BE FLUSH WITH THE FINISH GRADE UNLESS OTHERWISE NOTED. RIM ELEVATIONS FOR STRUCTURES AND MANHOLES ARE APPROXIMATE.
- SEE PLAN BY KAESTLE BOOS ASSOCIATES, INC. FOR GRADING, CONTOURS, SPOT GRADES, AND LAYOUT AND MATERIALS INFORMATION.
- THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDLING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF THE FINISH SUBGRADE. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.
- THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL BARRIERS AFTER REVEGETATION OF DISTURBED AREAS AND AFTER APPROVAL OF THE DESIGNER AND OWNER. SEE ADDITIONAL EROSION CONTROL NOTES ON DEMOLITION SHEET C1.01.
- THE FIELD SUBDRAIN LOCATIONS SHOWN ARE APPROXIMATE. SEE FIELD CROSS SECTION DETAILS ON L4.00 FOR ADDITION INFORMATION ON THE FLAT PANEL DRAINS, THE COLLECTOR DRAIN, AND MANHOLE COVERS WITHIN THE TURF FIELD AREA.
- PIPE LENGTHS AND SLOPES IN THE DRAINAGE STRUCTURE TABLES ARE BASED ON CENTER TO CENTER LENGTHS AND SLOPES.

SEWER OR DRAINAGE MANHOLE  
RIM = 178.31  
INV. IN. (8" PVC PIPE) (E) = 161.59  
INV. IN. (8" PVC PIPE) (N) = 161.64

**ABBREVIATIONS**

BIT CONC	BITUMINOUS CONCRETE
CONC	CONCRETE
HDPE	HIGH DENSITY POLYETHYLENE
EOP	EDGE OF PAVEMENT
VCC	VERTICAL GRANITE CURB
PCC	PRECAST CONCRETE CURB
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
TYP	TYPICAL
CO	CLEAN OUT
RIM	RIM ELEVATION
INV	INVERT ELEVATION
R&D	REMOVE AND DEMOLISH
HC	HANDICAP RAMP
VE	VERTICAL ELLIPTICAL
TC/BC	TOP OF CURB/BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL (SURFACE GRADE)
SSD	SUB SOIL DRAIN
LA	LANDSCAPE ARCHITECT
UD	UNDER DRAIN / SUB DRAIN

**GRADING LEGEND**

—	BASE BID CONSTRUCTION LIMIT LINE
~	EXISTING CONTOUR
~	PROP. INTERMEDIATE CONTOUR
~	PROP. INTERVAL CONTOUR
249.00	PROPOSED SPOT ELEVATION
249.00	EXISTING SPOT GRADE

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

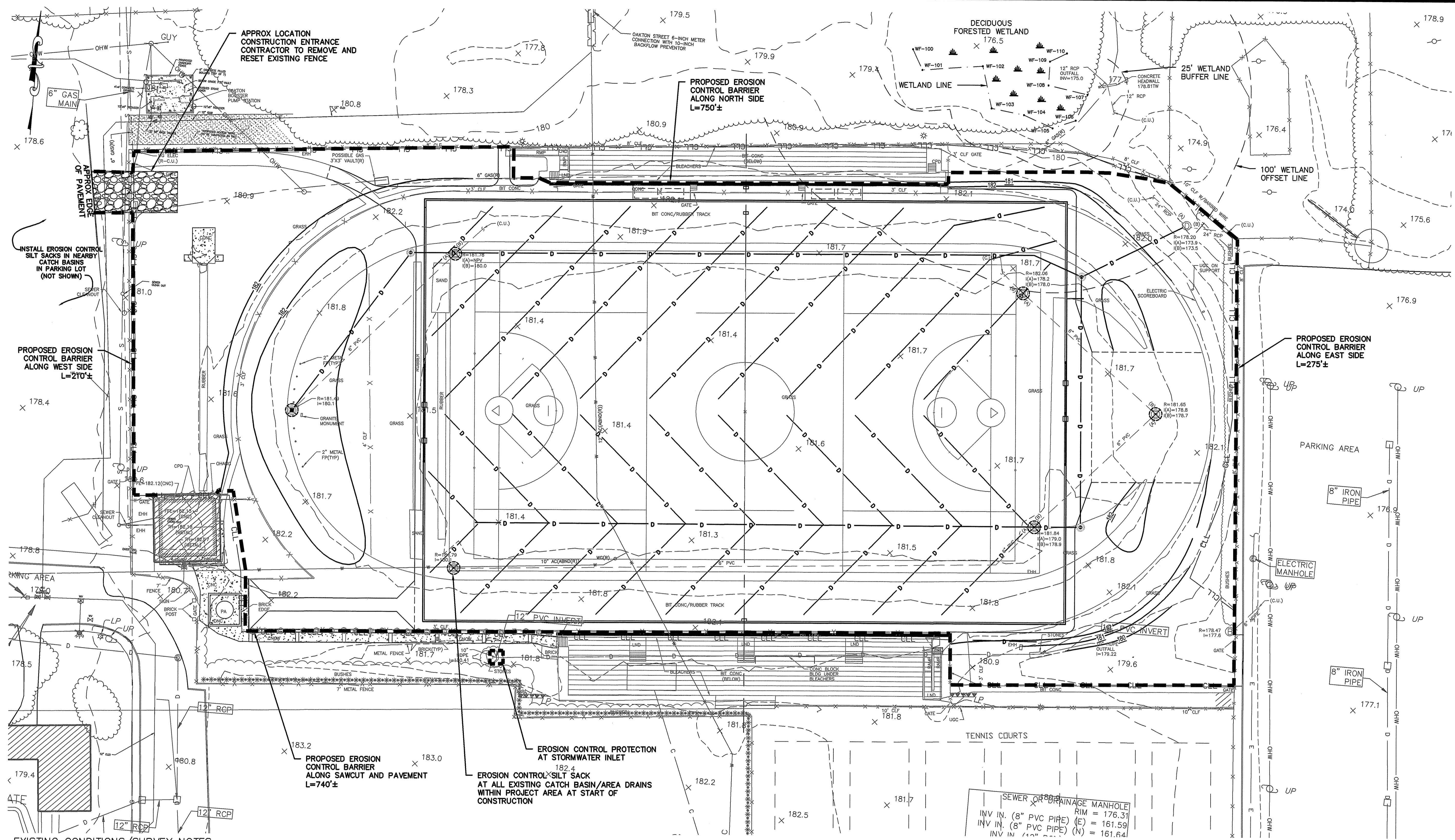
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: MAR 29 2023 FILE #: 23-0006

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

ERIC WILHELMSSEN  
No. 11457  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

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**EXISTING CONDITIONS/SURVEY NOTES:**

1. EXISTING CONDITIONS ARE BASED ON A SURVEY PREPARED BY WELCH ASSOCIATES LAND SURVEYORS, INC., 218 NORTH MAIN STREET, WEST BRIDGEWATER MA 02379, "TOPOGRAPHIC SURVEY ALUMNI FIELD/BOB BLACK TRACK, RHODE ISLAND COLLEGE PROVIDENCE RI", REVISED 12-19-22. LEVELING: CLASS V-3; TOPOGRAPHY: CLASS T-1.

2. WETLANDS/RESOURCE AREAS WERE DELINEATED BY APPLIED BIO-SYSTEMS, INC. ON DECEMBER 05, 2022. FOR MORE INFORMATION SEE "LETTER OF FINDINGS", PREPARED BY APPLIED BIO-SYSTEMS, INC., DATED DECEMBER 06, 2022.

**GENERAL EROSION CONTROL NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE-RELATED DUST CONTROL.
- THE CONTRACTOR MAY UTILIZE ALL AREAS WITHIN THE EROSION CONTROL BARRIERS AS A STAGING/STOCKPILE AREA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR WHEEL CLEANING OF ALL CONSTRUCTION VEHICLES BEFORE EXITING THE SITE, ANY TRACKED DIRT FROM CONTRACTOR OR SUBCONTRACTOR VEHICLES ONTO THE ADJACENT PAVEMENT AREAS, ACCESS ROADS, OR PUBLIC RIGHTS OF WAY SHALL BE SWEEPED UP DAILY AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR IS ADVISED TO DISTURB VEGETATION AND PAVEMENT AS LITTLE AS POSSIBLE.
- ALL MATERIALS STOCKPILED DURING THE WORK SHALL BE PLACED IN A LOCATION THAT PREVENTS EROSION AND SEDIMENTATION. THE CONTRACTOR SHALL STOCKPILE MATERIALS IN AN AREA ON-SITE.
- ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE CITY OF PROVIDENCE, THE STATE OF RHODE ISLAND, AND ANY OTHER AGENCIES HAVING JURISDICTION.
- AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE LIMITS OF THE PROJECT AS INDICATED ON THE PLANS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS. CONTRACTOR SHALL INSTALL SILT SACKS ON DOWNSTREAM CATCH BASINS AS INDICATED ON THE PLANS. PRIOR TO INSTALLING SILT SACKS THE CONTRACTOR SHALL CLEAN OUT THE SUMPS OF THE CATCH BASINS. THE EROSION CONTROL AS SHOWN IS A MINIMUM REQUIREMENT, ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS CONDITIONS WARRANT.
- THE EROSION CONTROL BARRIER SHALL CONSIST OF STRAW WATTLES, SILT FENCING, OR APPROVED EQUAL. A COMBINED WATTLE/SILT FENCE BARRIER MAY BE NECESSARY FOR USE IN AREAS WITH A HIGH SEDIMENTATION/EROSION RUNOFF CONDITION, OR WHEREVER ADDITIONAL SUPPORT IS WARRANTED. SEE ADDITIONAL EROSION CONTROL NOTES ON SHEET C3.00.

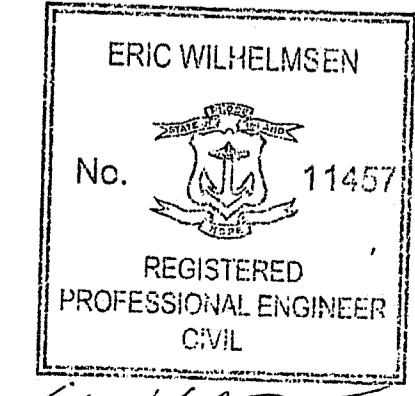
**ABBREVIATIONS**

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**GRADING LEGEND**

—	CLL	BASE BID CONSTRUCTION LIMIT LINE
~	EXISTING CONTOUR	
~	PROP. INTERMEDIATE CONTOUR	
~	PROP. INTERVAL CONTOUR	
+	PROPOSED SPOT ELEVATION	249.00
-	EXISTING SPOT GRADE	249.00

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
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DATED: MAR 29 2023 FILE #: 23-0006  
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313 Congress Street, Suite 150, Boston, MA 02210  
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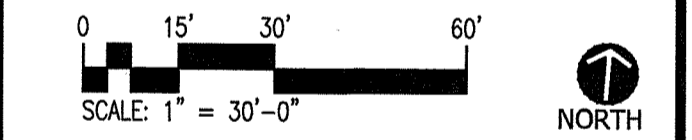


**ISSUE DATE**

DATE	DESCRIPTION
OCTOBER 14, 2022	BD

**REVISIONS**

DATE	REFERENCE	COMMENTS
MARCH 2, 2023	RIDEM	COMMENTS



**RHODE ISLAND COLLEGE ALUMNI FIELD**  
600 MT PLEASANT AVE  
PROVIDENCE, RI 02908  
TAX PLAT = 121; LOT NUMBERS: 1 & 3  
TAX PLAT = 9; LOT NUMBERS: 327

PROJECT NO: 20130 DRAWN BY: ESW  
**SOIL EROSION AND SEDIMENT CONTROL PLAN**  
SHEET #: 8 OF 14 DRAWING NO.: C2.00  
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**EROSION & SEDIMENTATION CONTROL NOTES:**

**GENERAL**

- THE PURPOSE OF THESE NOTES IS TO PRESENT A CONSTRUCTION SYSTEM THAT SHOULD MINIMIZE IMPACTS OF EROSION AND SEDIMENTATION RUNOFF DUE TO CONSTRUCTION. THE INFORMATION CONTAINED HEREIN IS TO SUPPLEMENT THE DEVELOPER OR CONTRACTOR'S EXPERTISE AND IS NOT MEANT TO CIRCUMVENT LOGICAL DECISIONS REQUIRED BY A VARIETY OF FIELD CONDITIONS INCLUDING WEATHER AND THE TYPE OF EQUIPMENT AVAILABLE TO THE CONTRACTOR.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, SEDIMENT CONTROL BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE BARRIERS UNTIL ALL WORK IS COMPLETE AND ALL AREAS HAVE BEEN STABILIZED. THE REMOVAL OF SEDIMENT CONTROL DEVICES SHALL BE ONLY UPON THE APPROVAL OF THE DESIGNER AND OWNER.
- SEDIMENTATION AND EROSION CONTROL DEVICES ARE TO BE INSTALLED AS SHOWN ON THE DRAWING AND SPECIFICATIONS, OR AS REQUIRED BY VARYING FIELD CONDITIONS INCLUDING WEATHER AND SPECIFIC CONSTRUCTION REQUIREMENTS. THE EROSION CONTROL AS SHOWN IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL SUPPLEMENT THE EROSION CONTROL SYSTEMS IN PLACE AS NEEDED.
- THE FUNCTIONING OF TEMPORARY MITIGATIVE MEASURES OR CONSTRUCTION OPERATIONS SHALL NOT CAUSE NOTICEABLE SEDIMENTATION PLUMES. THE CONTRACTOR SHALL STOP WORK AND INSTALL SEDIMENTATION CONTROL DEVICES IMMEDIATELY TO PREVENT FURTHER SEDIMENTATION.
- NO MATERIAL SUBJECT TO EROSION SHALL BE STOCKPILED OVERNIGHT WITHIN 100 FEET OF ANY WETLAND AREAS.
- ACCUMULATED SEDIMENT SHALL BE PERIODICALLY REMOVED FROM THE EROSION CONTROL DEVICES AND DISPOSED OF BY THE CONTRACTOR AS REQUIRED OR WHEN DIRECTED BY THE DESIGNER OR OWNER.
- SOIL AND SLOPE STABILIZATION SHALL PRESUMED TO BE ATTAINED WHEN THE VEGETATION HAS ACHIEVED AT LEAST 75% GROUND COVER BY A HEALTHY STAND OF GRASS FOR THE SPECIFIED MIX OF SPECIES.
- THE CONTRACTOR WILL DESIGNATE A PERSON TO BE THE EROSION CONTROL OFFICER FOR THE PROJECT TO INSURE PROPER MAINTENANCE OF MITIGATING MEASURES. THE NAME OF THIS PERSON WILL BE PROVIDED TO THE DESIGNER AND OWNER.

**STABILIZATION PRACTICES**

- STABILIZATION PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: ESTABLISHMENT OF TEMPORARY VEGETATION, ESTABLISHMENT OF PERMANENT VEGETATION, MULCHING, GEOTEXTILES, SOIL STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES AND EXISTING VEGETATION, AND OTHER APPROPRIATE MEASURES.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE, INCLUDING THE TIMELY REMOVAL OF SNOW COVER TO ALLOW STABILIZATION MEASURES TO BE PUT DIRECTLY IN CONTACT WITH THE SOIL SURFACE.
- WHERE CONSTRUCTION ACTIVITY ON A SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

**STRUCTURAL PRACTICES**

- STRUCTURAL PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: SILT FENCES, STRAW BALES, EARTH DIKES, DRAINAGE SWALES, CHECK DAMS, SUBSIDENCE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, AND TEMPORARY AND PERMANENT SEDIMENT BASINS.
- PRIOR TO BEGINNING WORK, CONTRACTOR SHALL INSTALL EROSION CONTROL BARRIERS AS SHOWN ON PLANS IN AREAS WHERE WORK IS PLANNED. PERMANENT STORM WATER MANAGEMENT BASINS SHOWN ON PLANS MAY BE USED AS TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT BERMS, SWALES OR OTHER MEASURES TO DIRECT STORM WATER TO TEMPORARY BASINS DURING CONSTRUCTION. WHERE STORM WATER CANNOT BE DIRECTED TO PERMANENT BASIN AREAS, TEMPORARY BASINS SHALL BE CONSTRUCTED WITH A VOLUME OF 3,600 CUBIC FEET PER ACRE OF AREA DIRECTED TO BASIN.

**GENERAL SITE MAINTENANCE**

- UNDER NO CONDITIONS SHALL SOLID MATERIALS, INCLUDING BUILDING MATERIALS, BE DISCHARGED TO WATERS OF THE UNITED STATES EXCEPT AS MAY BE AUTHORIZED BY PERMIT UNDER SECTION 404 OF THE CLEAN WATERS ACT.
- DUST SHALL BE CONTROLLED BY WATERING AS SITE CONDITIONS DEMAND.
- STABILIZED STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO BEGINNING EARTHWORK. IF STONE VOIDS IN STONE IN CONSTRUCTION ENTRANCE BECOME COMPLETELY FILLED WITH SEDIMENT, STONE SHALL BE REMOVED AND REPLACED WITH CLEAN STONE.
- ALL EROSION CONTROL MEASURES AND OTHER PROTECTIVE MEASURES USED ON THE SITE MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF SITE INSPECTIONS IDENTIFY BMPs THAT ARE NOT FUNCTIONING, MAINTENANCE SHALL BE PERFORMED BEFORE THE NEXT ANTICIPATED STORM EVENT, OR AS NECESSARY TO MAINTAIN THE CONTINUED EFFECTIVENESS OF STORM WATER CONTROLS. IF MAINTENANCE PRIOR TO THE NEXT ANTICIPATED STORM EVENT IS IMPRACTICABLE, MAINTENANCE MUST BE SCHEDULED AND ACCOMPLISHED AS SOON AS PRACTICABLE.

**INSPECTIONS**

- INSPECTIONS MUST BE CONDUCTED AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
- INSPECTIONS MAY BE REDUCED TO ONCE A MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR IF THE GROUND SURFACE IS STABILIZED BY SNOW, ICE OR FROZEN GROUND.
- INSPECTIONS MUST BE CONDUCTED BY A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS WHO POSSESSES THE SKILLS TO ASSESS CONDITION AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITY.
- FOR EACH INSPECTION PERFORMED, AN INSPECTION REPORT MUST BE COMPLETED AND RETAINED AS PART OF THE SWPPP FOR AT LEAST THREE YEARS FROM THE DATE THAT PERMIT COVERAGE EXPIRES OR IS TERMINATED.

**SEQUENCE OF CONSTRUCTION**

- THE CONTRACTOR SHALL PERFORM MAJOR SITE CONSTRUCTION ACTIVITIES IN A MANNER WHICH WILL INSURE THE STABILIZATION OF AREAS AS SOON AS POSSIBLE AS OUTLINED BELOW.
  - INSTALL EROSION CONTROL BARRIER ALONG AREAS TO BE DISTURBED
  - INSTALL CONSTRUCTION ENTRANCE(S)
  - SOIL STABILIZATION
  - CLEAR AND GRUB SITE
  - EXCAVATE AND CONSTRUCT STORM WATER MANAGEMENT SYSTEMS
  - INSTALL UTILITIES
  - EXCAVATION AND GRADING FOR SITE
  - INSTALL HARDSCAPE
  - FINAL GRADING AND SOIL TREATMENT WITH LOAM AND SEED

**ACCESS**

- ACCESS TO THE SITE SHALL BE MADE IN THE AREA OF A PERMANENT DRIVEWAY OR ROADWAY UNLESS DOING SO WOULD RESULT IN A TRAFFIC HAZARD.
- PRIOR TO CONSTRUCTION AN AREA OF CRUSHED STONE SHALL BE PLACED AT THE DRIVEWAY ENTRANCE TO INSURE THAT MUD IS NOT TRACKED ONTO THE EXISTING ROAD (SEE CONSTRUCTION ENTRANCE). IF MUD IS INADVERTENTLY TRACKED ONTO THE ROAD IT SHOULD BE REMOVED BEFORE THE END OF THE WORK DAY.
- LABORERS VEHICLES SHALL BE PARKED IN A DESIGNATED AREA AS TO MINIMIZE DISTURBED SURFACES AND TO INSURE THAT RUTS ARE NOT CREATED AND WHICH COULD CARRY WATER TO A WETLAND OR SENSITIVE AREA.
- SUITABLE MEASURES SHALL BE TAKEN TO INSURE THAT LARGE DELIVERY TRUCKS SERVICING THE SITE DO NOT DAMAGE AREAS OF EXISTING VEGETATION OR CAUSE DISTURBANCE TO STABILIZED AREAS.

**CLEARING**

- LAND CLEARING SHALL BE PERFORMED IN PHASES CONSISTENT WITH ACTUAL CONSTRUCTION REQUIREMENTS. FINAL LAND CLEARING SHALL BE LIMITED TO RETURN TO GRADE SLOPES.
- TREES SHALL BE CUT AND STUMPS GROUND IN PLACE TO EXISTING GRADE WHERE POSSIBLE TO MAINTAIN SOIL STABILIZATION.
- BRUSH AND BRANCHES SHOULD BE CHIPPED AND UTILIZED FOR WOOD MULCH IF PRACTICAL.

**GRUBBING AND STRIPPING**

- TOP SOIL SHALL BE RETAINED FOR LANDSCAPING PURPOSES.
- GRUBBING AND STRIPPING OF STEEP SLOPES SHOULD NOT BE UNDERTAKEN DURING PERIODS OF INTENSE RAINFALL.
- TOP SOIL SATURATED WITH WATER SHALL BE REMOVED AND CONTAINED PRIOR TO BEING USED.
- DURING PERIODS OF INTENSE RAINFALL, OR IF THE PROJECT IS TO BE LEFT FOR A PERIOD OF TIME, CONSIDERATION SHOULD BE GIVEN TO SUPPLEMENT EXISTING EROSION CONTROL DEVICES WITH CRUSHED STONE OR ARMORED BARRIERS. CONSIDERATION SHOULD ALSO BE GIVEN TO DIVERTING RUNOFF INTO TEMPORARY SEDIMENTATION CONTROL AREAS.
- WHENEVER PRACTICAL, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.

**ROUGH GRADING**

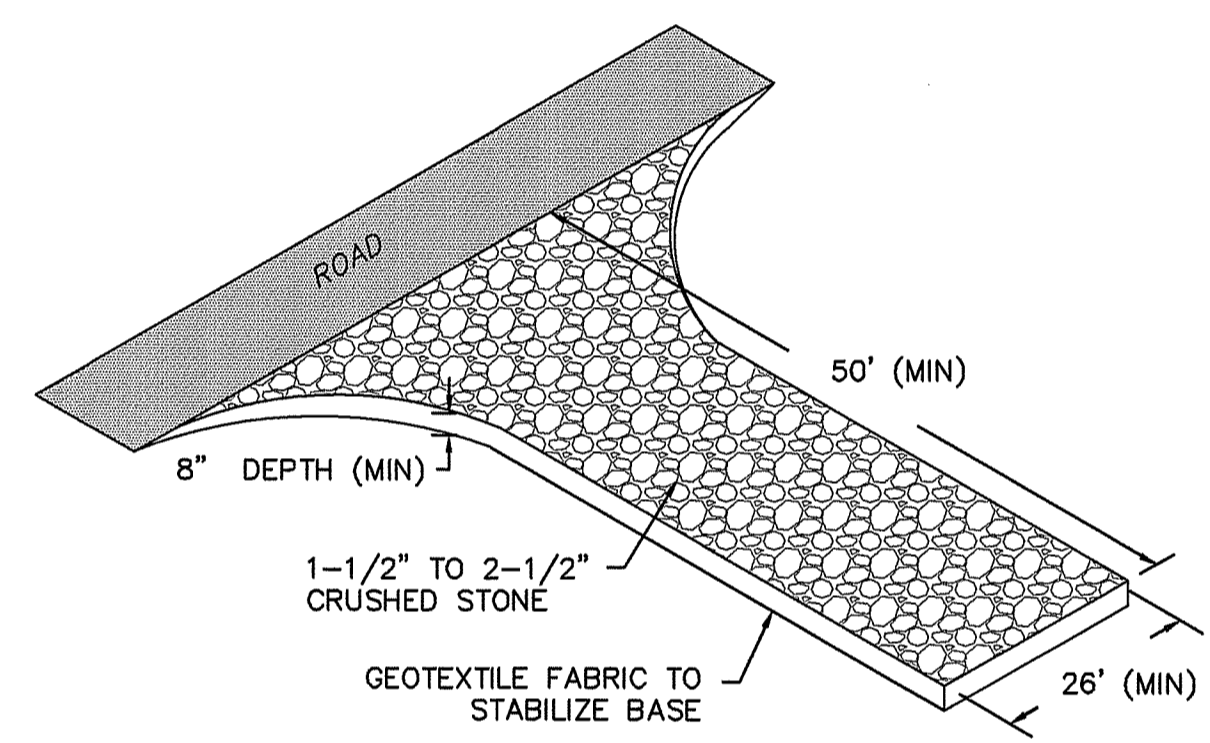
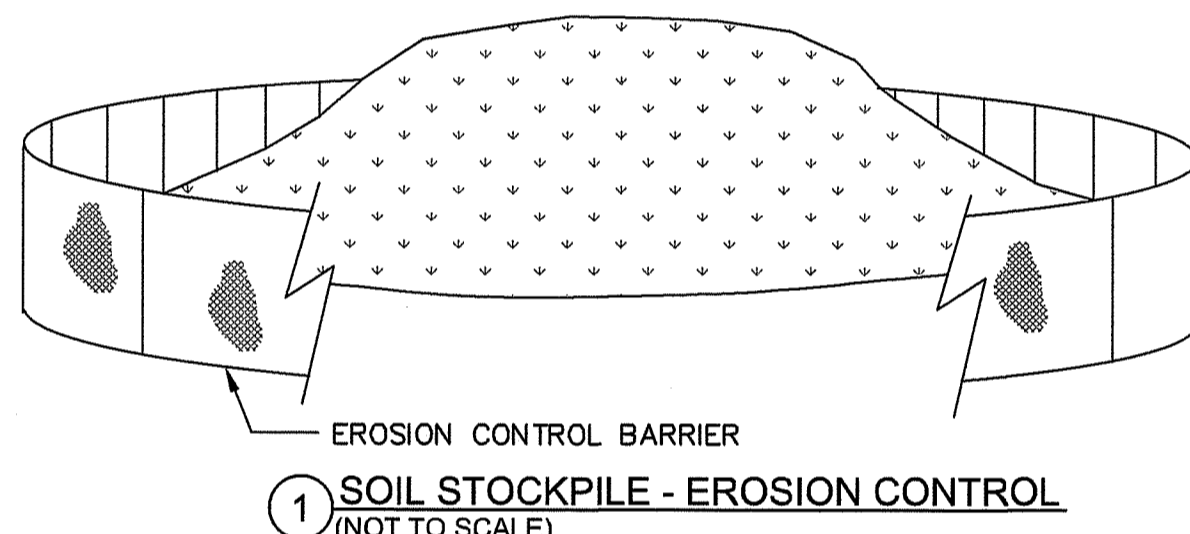
- THE ROUGH GRADING OF THE PAYMENT AREAS SHALL FOLLOW STANDARD FILL AND EXCAVATION SEQUENCES, RESULTING IN SLOPES BEING MAINTAINED AS MUCH AS IS PRACTICAL.
- DURING THIS PROCESS THE EROSION POTENTIAL IS HIGH AND SUFFICIENT EROSION CONTROL BARRIERS SHOULD BE KEPT ON SITE TO INSURE THAT NO SEDIMENT IS DISCHARGED FROM THE SITE.
- IN EXTENSIVE AREAS OF CUT, OR WHEN TONS OF FILL COULD DIVERT WATER, METHODS SHOULD BE TAKEN TO DIVERT WATER AWAY FROM EXCAVATED OR FILLED AREAS.
- STEEP SIDE SLOPES IN EXCAVATION OR FILL SHOULD BE AVOIDED AS MUCH AS IS PRACTICAL.
- DISTURBED AREAS SHALL BE STABILIZED BY LOAMING AND SEEDING OR RIP RAPPED IMMEDIATELY AFTER THE FINISHED GRADE HAS BEEN MET. IF FINAL GRADING DOES NOT OCCUR DURING THE GROWING SEASON, THESE AREAS SHALL BE MULCHED BY STRAW SECURED BY WEIGHTED SNOW FENCE, CHICKEN WIRE MESH OR JUTE MATTING WITH APPROPRIATE SECURING DEVICES.
- A GROUND COVER SUFFICIENT TO RETAIN EROSION MUST BE PLANTED OR OTHERWISE PROVIDED WITHIN 30 WORKING DAYS, SEASON PERMITTING, ON ANY PORTION OF THE SITE UPON WHICH FURTHER ACTIVE CONSTRUCTION IS NOT BEING UNDERTAKEN.

**DRAINAGE**

- DRAINAGE PIPES AND SWALES ARE TO BE CONSTRUCTED FROM THE DOWNSTREAM END UP AND CONSTRUCTION SHALL INCLUDE THE PLACEMENT OF OUTFALL RIP RAP AND OTHER MITIGATION MEASURES SHOWN ON THE PLAN.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION STRAW BALES OR OTHER SUITABLE METHODS TO ENTRAP SEDIMENT SHALL BE PLACED DOWNSTREAM.
- THE TOE OF EMBANKMENTS SHALL BE STABILIZED IMMEDIATELY, MULCHED AND TACKED DOWN BY SUITABLE MEANS.
- IF THE PROPOSED PAVED AREAS ARE NOT PAVED IMMEDIATELY AFTER THE INSTALLATION OF DRAINAGE STRUCTURES, STRAW BALE BARRIERS SHALL BE PLACED TO PROTECT THE INTEGRITY OF THE STRUCTURES.

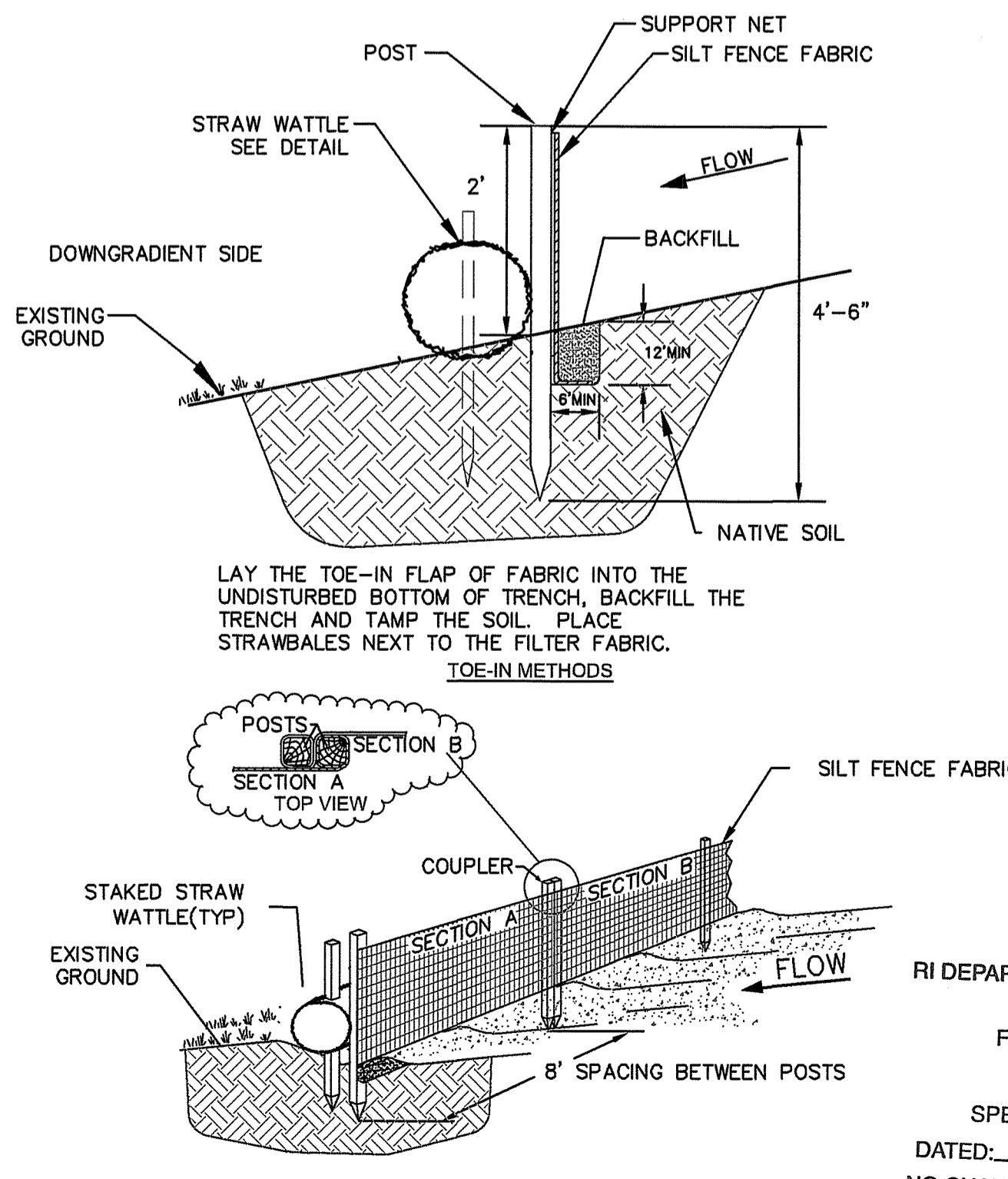
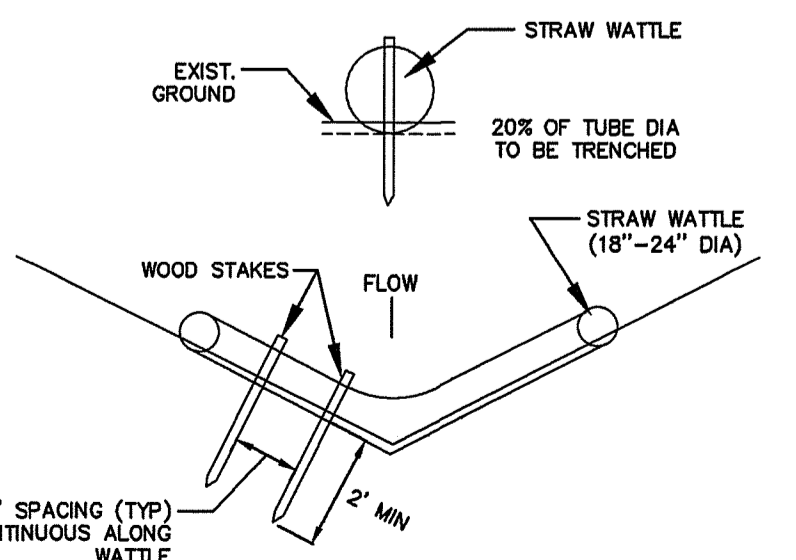
**LANDSCAPING**

- LANDSCAPING OF AREAS SHOULD OCCUR AS SOON AS POSSIBLE.
- IF THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT PERMIT THE ESTABLISHMENT OF VEGETATION, TEMPORARY STRAW MULCH, OR OTHER MEANS OF STABILIZATION, SHALL BE PERFORMED.
- THE USE OF HERBICIDES MAY BE SUBJECT TO LOCAL OR STATE REGULATIONS.
- CARE SHOULD BE TAKEN WITH FERTILIZERS SUCH THAT THEY ARE NOT CARRIED TO A WETLAND OR SENSITIVE AREA.
- TRUNKS OF TREES SHOULD NOT BE COVERED WITH MORE THAN TWO (2) INCHES OF SOIL.
- STUMPS MAY BE GROUND DOWN INTO A WOOD MULCH AND UTILIZED OR REMOVED FROM THE SITE.



NOTES:  
 1. STRAW WATTLES MUST MEET THE CRITERIA OUTLINED IN THE SPECIFICATIONS BEFORE BEING UTILIZED AND BE FREE FROM DEFECTS OR TRANSPORTATION DAMAGE.  
 2. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE WATTLES ARE IN COMPLETE CONTACT WITH UNDERLYING SOIL. SEDIMENT TUBES ARE TO BE 18"-24" IN DIAMETER AND ARE TO BE TRENCHED 3 TO 5 INCHES.  
 3. WATTLES ARE TO BE INSTALLED PERPENDICULAR TO WATER FLOW.  
 4. THE WATTLES SHALL BE STAKED DOWN WITH 1 INCH BY 1 INCH WOOD STAKES OR 1.25 LBS/LINEAR FOOT STEEL POSTS EVERY 3 TO 4 FEET ALONG ITS LENGTH. THE STAKES SHALL BE A MINIMUM OF 2 FEET INTO THE GROUND LEAVING LESS THAN 6 INCHES OF THE STAKE ABOVE THE EXPOSED WATTLE. REFER TO THE MANUFACTURERS RECOMMENDATIONS FOR OTHER STAKING DETAILS.  
 5. SELECT PROPER LENGTH OF WATTLES TO MINIMIZE THE NUMBER NEEDED TO SPAN THE WIDTH OF AREA. IF NECESSARY, WATTLES CAN BE LAPPED A MINIMUM OF 12 INCHES TO PREVENT PASSAGE OF FLOW AND SEDIMENT THROUGH FIELD JOINT.  
 6. INSTALL WATTLES FOR DITCH CHECKS OVER BARE SOIL, MULCHED AREAS, OR EROSION CONTROL BLANKETS. KEEP WATTLES FOR DITCH CHECKS IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.  
 7. REMOVE AND/OR REPLACE INSTALLED WATTLES AS REQUIRED TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS. REMOVE WHEN THE FUNCTIONAL LONGEVITY IS EXCEEDED AS DETERMINED BY THE ENGINEER, INSPECTOR, OR MANUFACTURERS REPRESENTATIVE. GATHER WATTLES AND DISPOSE OF THEM IN REGULAR MEANS AS NON-HAZARDOUS INERT MATERIAL.  
 8. PRIOR TO FINAL STABILIZATION, BACKFILL ALL TRENCHES, DEPRESSIONS, AND OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE WATTLES.

SLOPE	ON SLOPE SPACING (FT)	MIN DIAMETER (INCH)
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6:1 - 4:1	25	20
4:1 - 2:1	20	20
2:1 - 1:1	10	20
>1:1	5	20

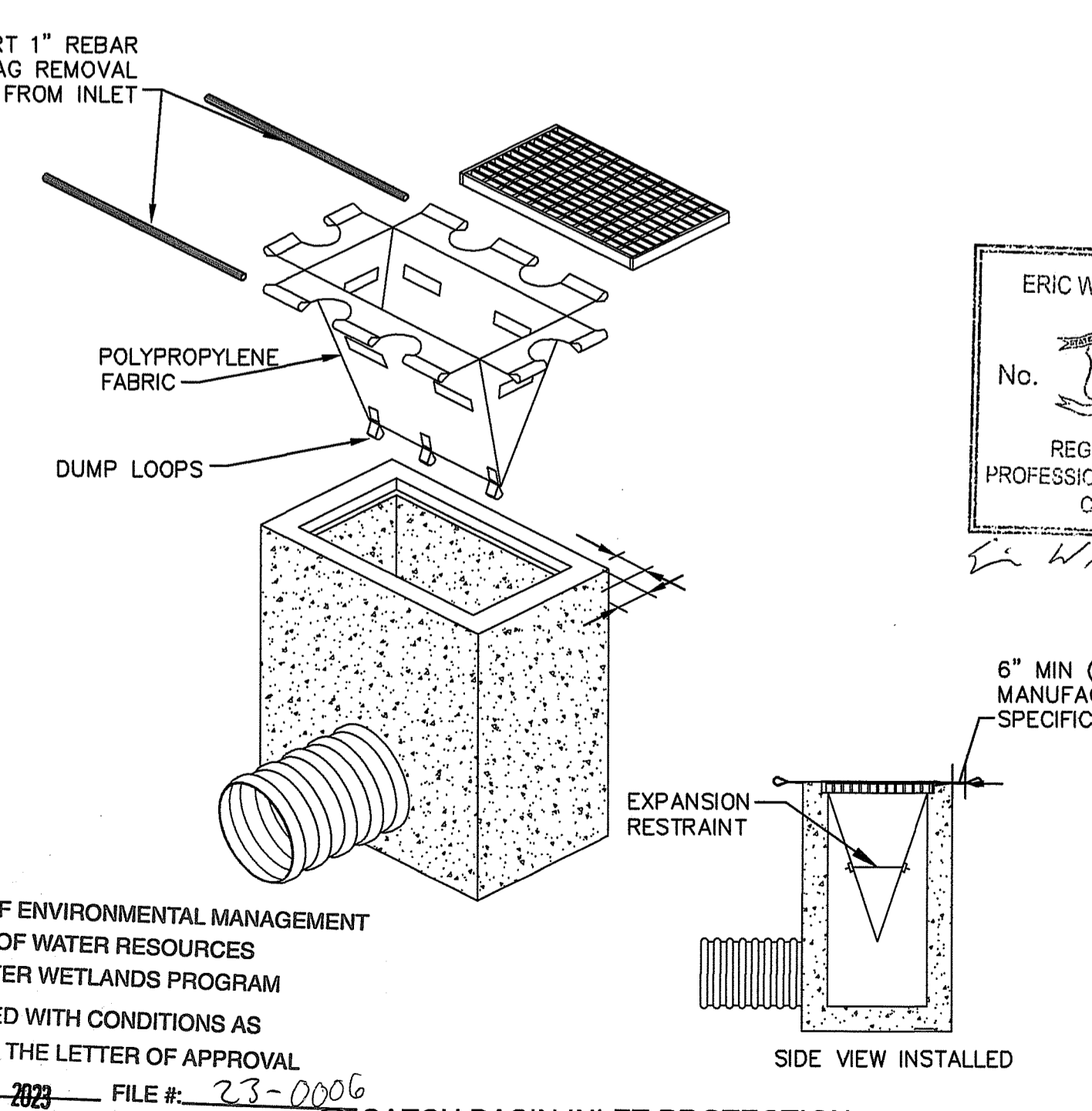
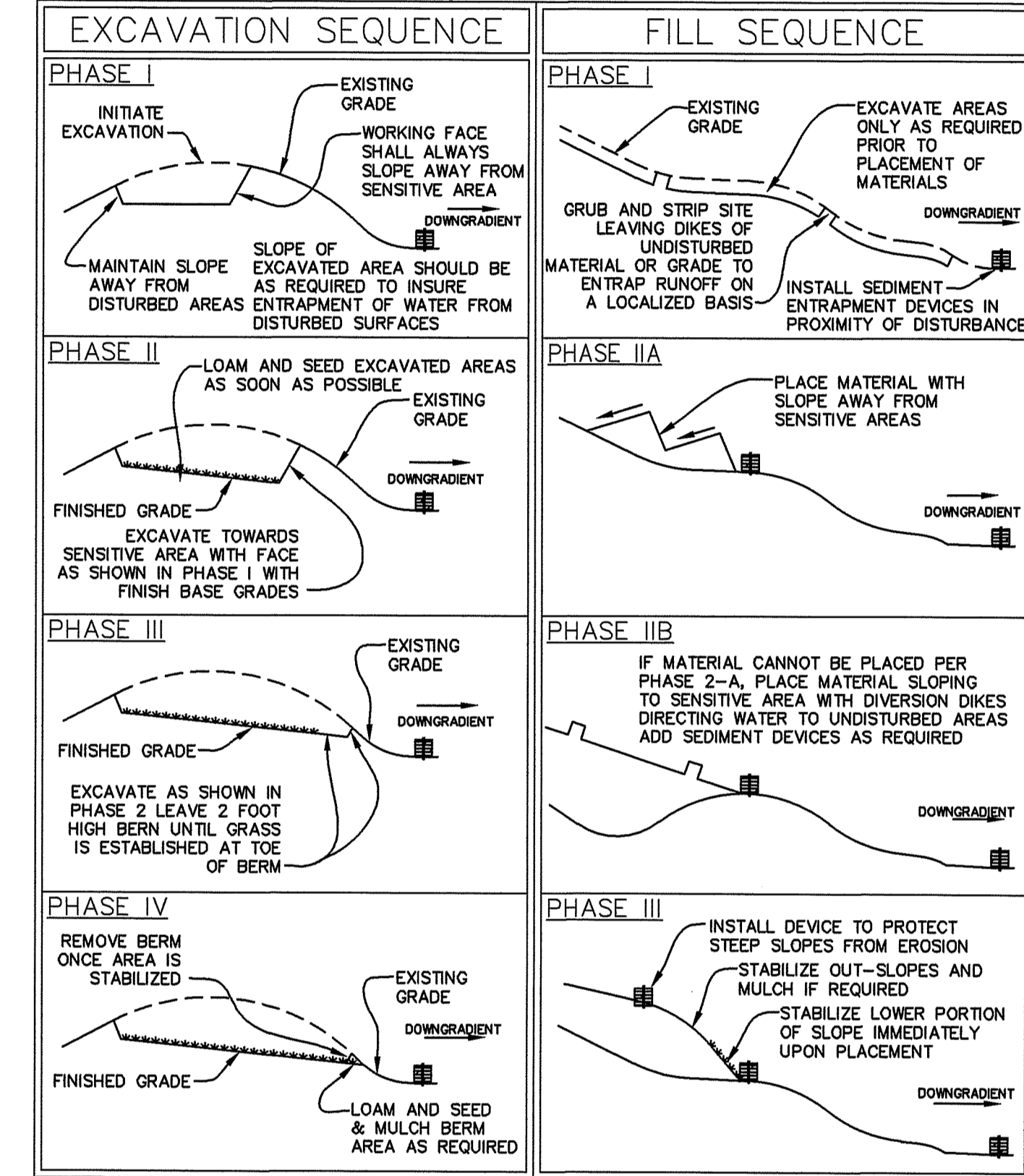


**CREATION OF STORMWATER CONTROL SYSTEMS**

- THE PRIMARY EROSION CONTROL METHOD FOR STORMWATER CONSTRUCTION, AS WELL AS THE SITE, IS THE RAPID STABILIZATION OF ALL SURFACES. SECONDARY IN IMPORTANCE IS TO AVOID CONCENTRATION OF RUNOFF IN ORDER TO PREVENT THE TRANSPORTATION OF SEDIMENT.
- DURING CONSTRUCTION THE FILL AND EXCAVATION SEQUENCES SHOWN ON THIS PLAN SHOULD BE UTILIZED. THESE SEQUENCES REQUIRE THAT SLOPED AREAS LEFT FOR ANY PERIOD OF TIME SHALL NOT NOT BE SLOPED TOWARDS THE WETLAND OR SENSITIVE AREA, BUT RATHER BACK INTO THE FILL MATERIAL.
- THE STORMWATER SYSTEMS SHALL BE CONSTRUCTED BY EQUIPMENT WORKING ON STABLE MATERIAL ONLY. EROSION CONTROL BARRIERS SHALL BE PLACED AT THE TOE OF SLOPE UNTIL SURFACES ARE STABILIZED.
- WHERE DEWATERING IS NECESSARY, PUMPING TO A SETTLING BASIN SHALL BE PERMITTED IF SUCH BASIN IS CONSTRUCTED, MAINTAINED AND OPERATED EFFECTIVELY.
- ADDITIONAL NOTES REGARDING THE STORMWATER SYSTEMS CONSTRUCTION ARE SHOWN ON THE CONSTRUCTION DETAILS.
- DURING THE CONSTRUCTION PHASE OF THIS PROJECT, STORMWATER BASINS OR INFILTRATIONS AREA ARE NOT TO BE USED AS TEMPORARY SEDIMENTATION AREAS.

**CATCH BASINS AND DRAIN INLETS**

- ALL CATCH BASINS AND DRAINAGE INLETS SHALL BE PROTECTED BY STRAWBALE SILT DAMS, SILT SACKS, OR APPROVED EQUAL UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED IN ALL AREAS TRIBUTARY TO THE CATCH BASINS AND INLETS.
- SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS AND MAINTAINED UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED IN ALL AREAS TRIBUTARY TO THE STRUCTURE.
- SEDIMENT SHALL BE ALLOWED TO ACCUMULATE IN THE SUMPS OF CATCH BASINS TO A DEPTH NO GREATER THAN SIX (6) INCHES.



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**KAESTLE BOOS**  
 associates, inc

20 Newman Avenue, Suite 2001-A, Rumford, RI 02916  
 Phone: 401-979-0365

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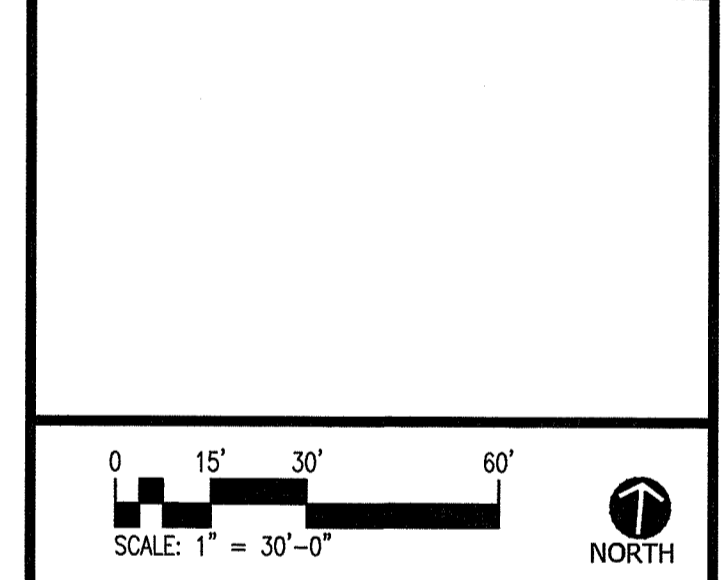
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**CDW**  
 CONSULTANTS  
 Environmental and Civil Engineering

DATE	ISSUE DATE	DESCRIPTION
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DATE	REVISIONS	REFERENCE
MARCH 2, 2023		RD&M COMMENTS



**RHODE ISLAND COLLEGE**  
 1854

ERIC WILHELMSEN  
 No. 11457  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

**RHODE ISLAND COLLEGE ALUMNI FIELD**

600 MT PLEASANT AVE  
 PROVIDENCE, RI 02908  
 TAX PLAT = 121; LOT NUMBERS: 1 & 3  
 TAX PLAT = 9; LOT NUMBERS: 327

PROJECT NO: 2013.0 DRAWN BY: ESW

**CIVIL DETAILS**

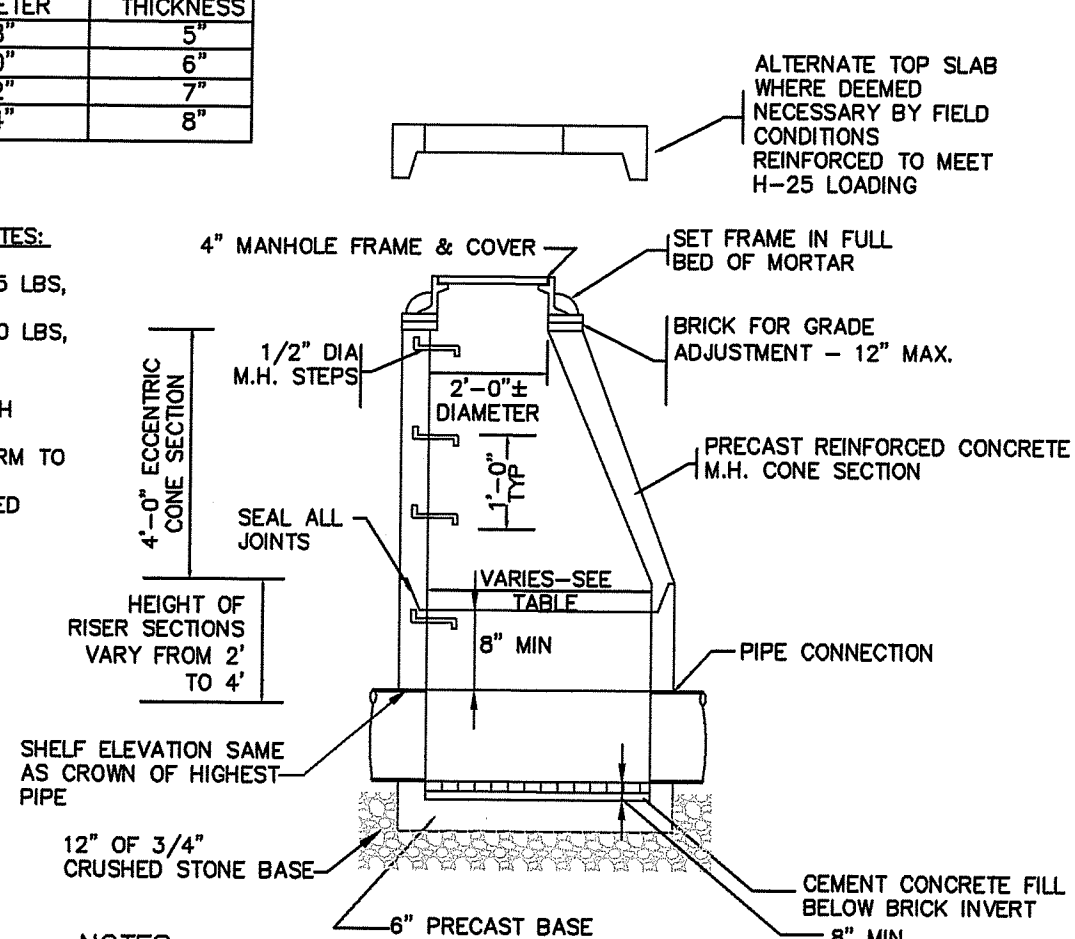
Environmental Management  
 MAR 16 2023  
 Office of Water Resources DRAWING NO:

SHEET #: 9 OF 14 **C3.00**

PIPE SIZE	MANHOLE DIAMETER	WALL THICKNESS
<= 24"	48"	5"
24" - 27"	60"	6"
30" - 36"	72"	7"
42" - 48"	84"	8"

**MANHOLE FRAME AND COVER NOTES:**

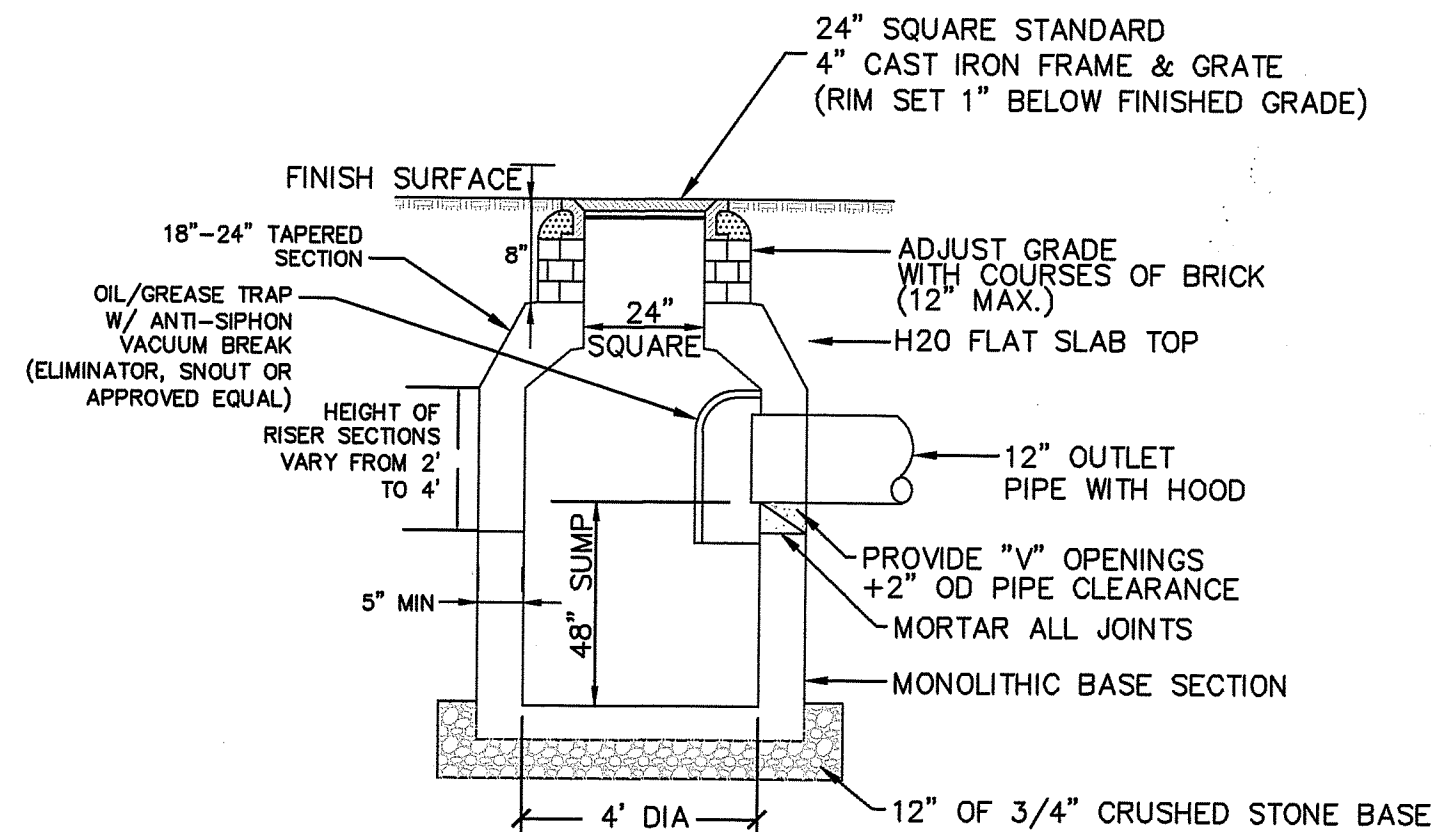
1. MINIMUM FRAME WEIGHT - 265 LBS, MATERIAL - CAST IRON.
2. MINIMUM COVER WEIGHT - 200 LBS, MATERIAL - CAST IRON WITH THE WORD "SEWER" OR "DRAIN" CAST INTO IT FOR SMH OR DMH RESPECTIVELY.
3. ALL CAST IRON SHALL CONFORM TO ASTM A48, CLASS 30.
4. ALL BRICK SHALL BE HARD RED BRICK ASTM C32, GRADE SS, ADJUSTMENT - 12" MAX.



**NOTES:**

1. STRUCTURE DESIGN TO LATEST ASTM C478.
2. REINFORCING STEEL CONFORMS TO LATEST ASTM A 185.
3. CONCRETE COMPRESSIVE STRENGTH - 4,000 PSI @ 28 DAYS.
4. PRECAST SECTIONS TO BE H-25 LOADING.
5. ONE POUR MONOLITHIC BASE.
6. MANHOLES WITH MULTIPLE INCOMING PIPES MAY REQUIRE A LARGER DIAMETER STRUCTURE.

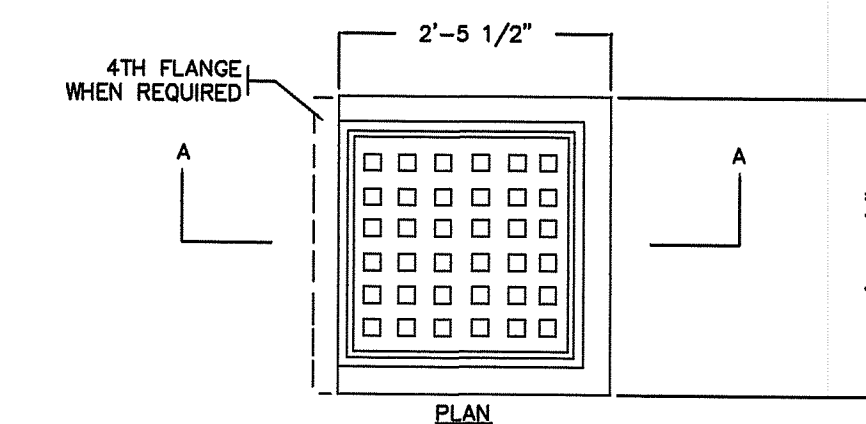
**1 PRECAST CONCRETE DRAIN MANHOLE (NOT TO SCALE)**



**NOTES:**

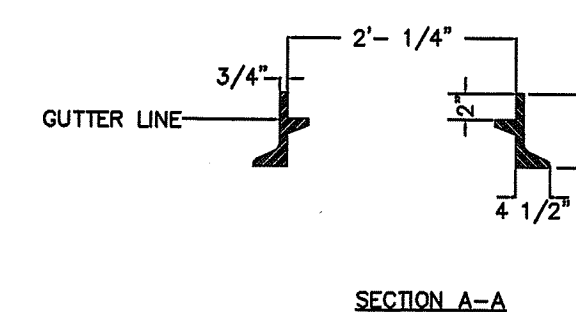
1. STRUCTURE DESIGN TO LATEST ASTM C478.
2. REINFORCING STEEL CONFORMS TO LATEST ASTM A 185.
3. CONCRETE COMPRESSIVE STRENGTH - 4,000 PSI @ 28 DAYS.
4. FLAT SLAB TOP AASHTO H-25
5. ONE POUR MONOLITHIC BASE.

**2 PRECAST CONCRETE CATCH BASIN W/TRAP (NOT TO SCALE)**

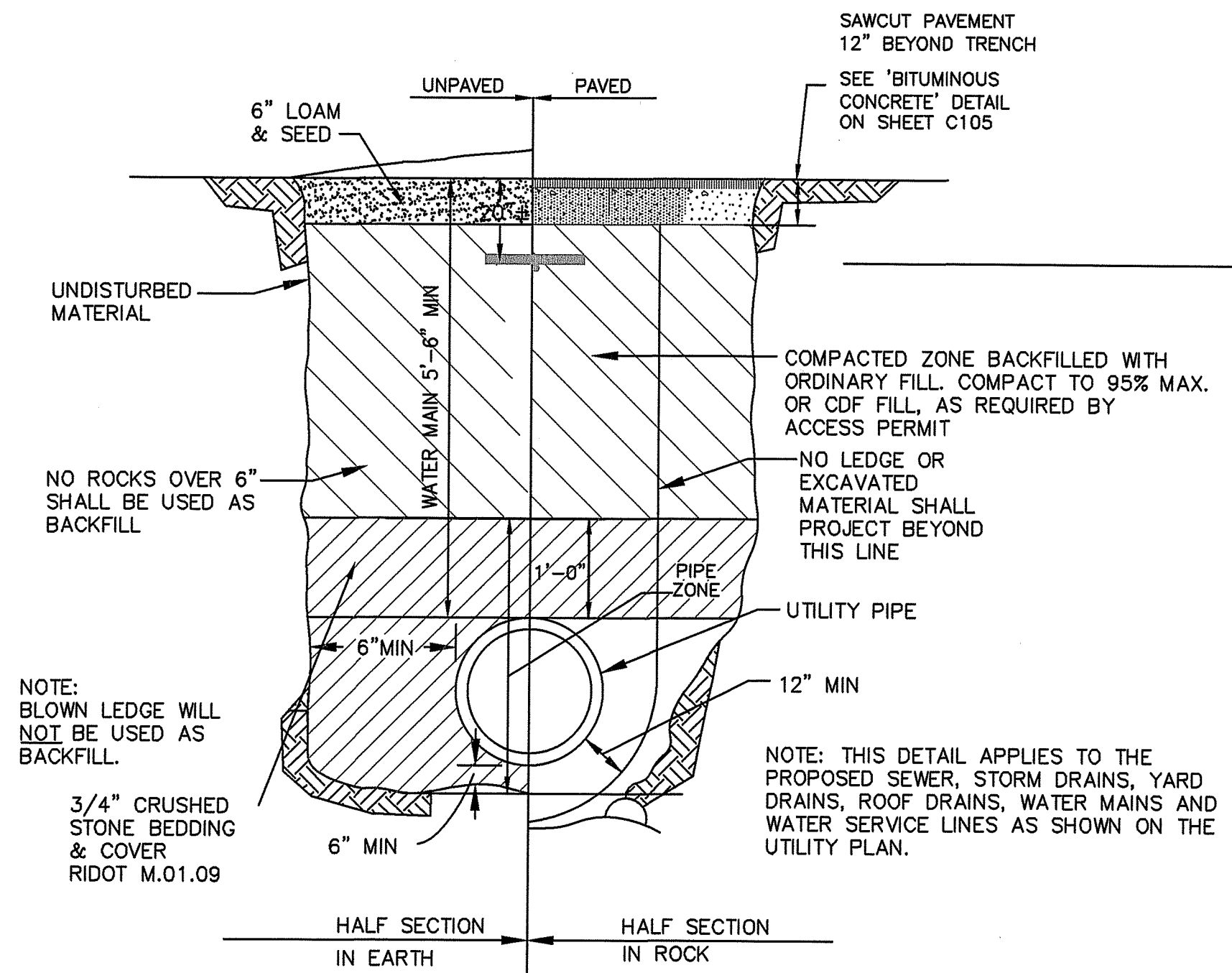


**NOTES:**

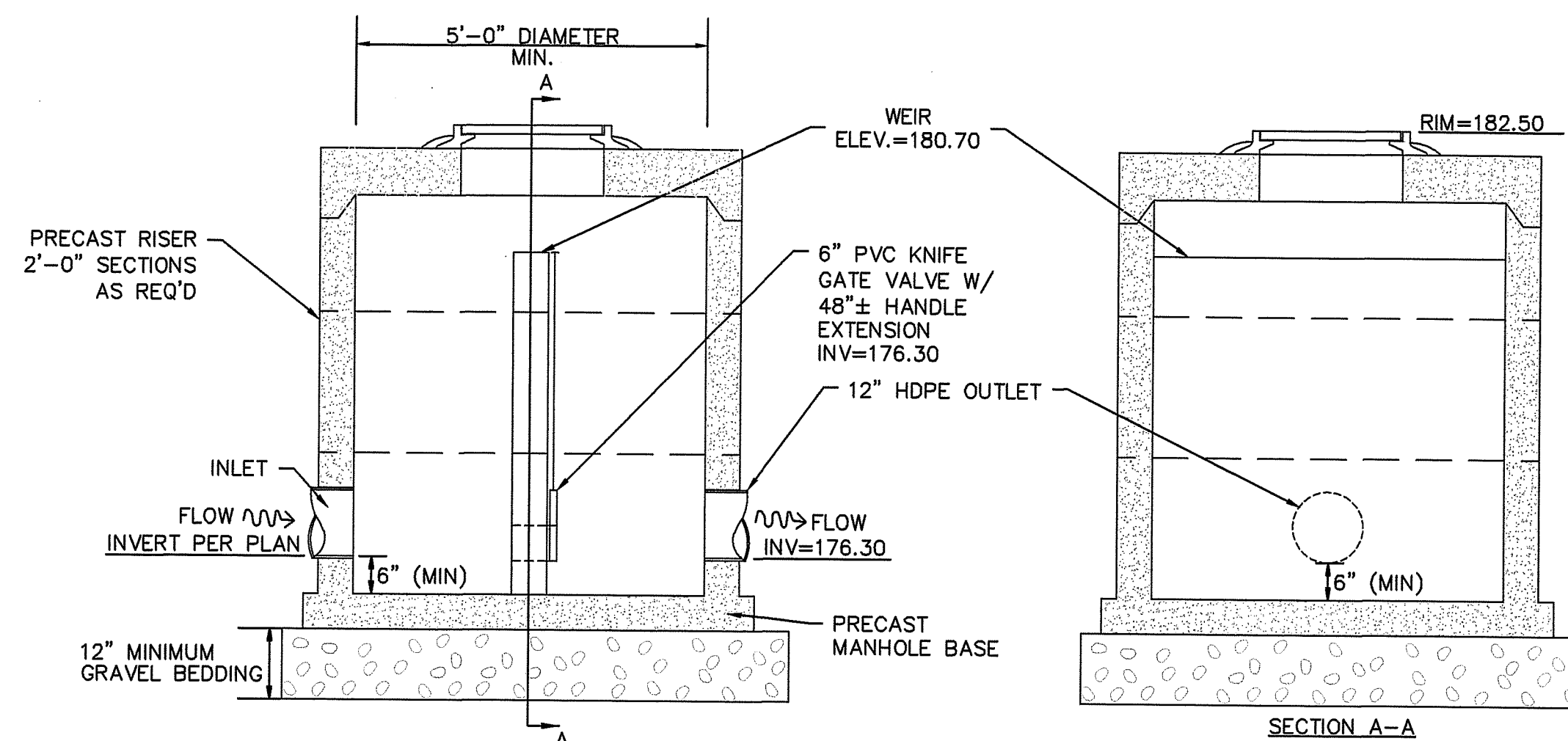
1. MATERIAL - CAST IRON
2. MIN GRATE WEIGHT 200 LBS



**3 STANDARD CATCH BASIN FRAME AND GRATE (NOT TO SCALE)**



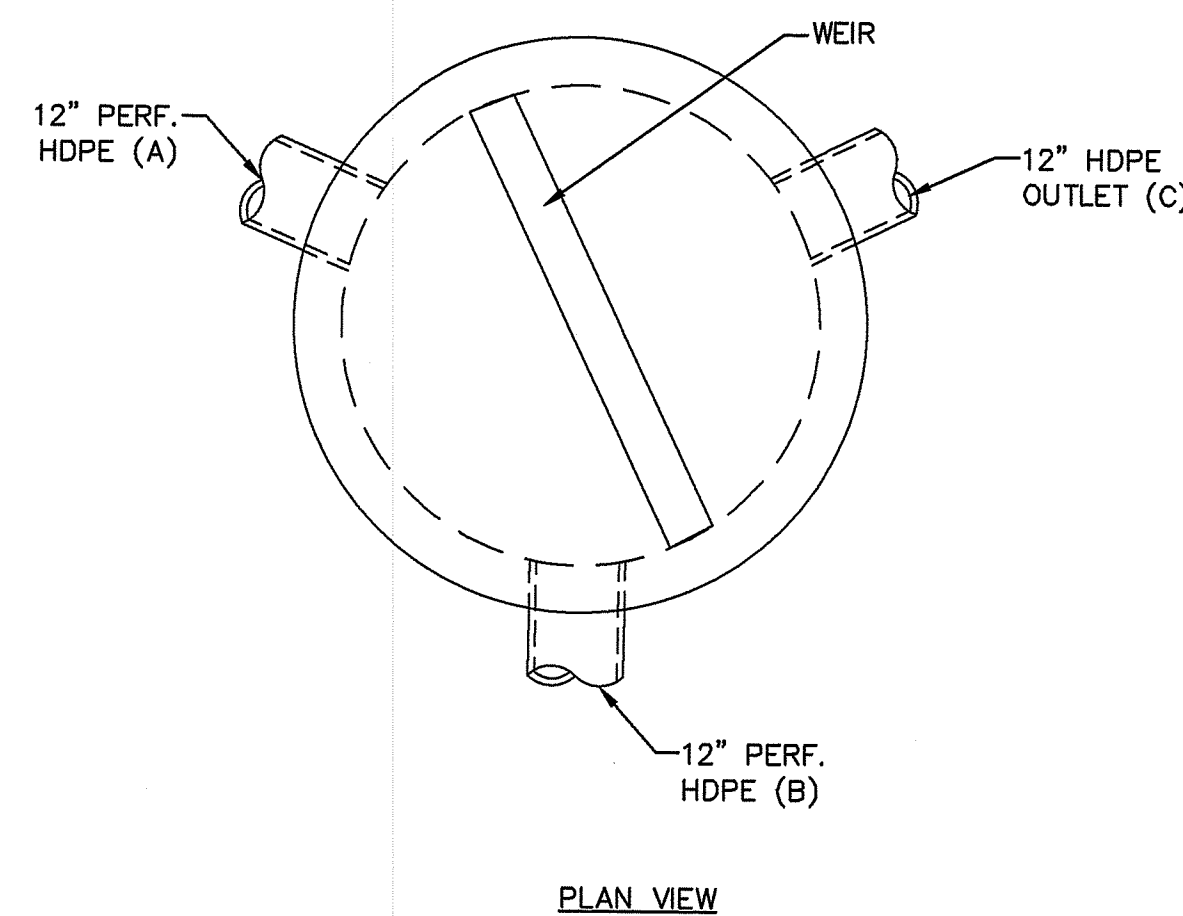
**4 TYPICAL PIPE IN TRENCH (NOT TO SCALE)**



**5 MANHOLE W/OUTLET CONTROL STRUCTURE (SCALE: 1" = 2')**

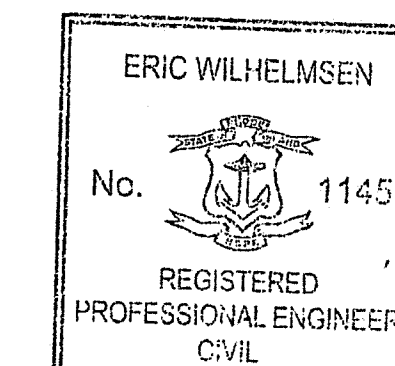
**\*NOTES:**

1. SEE DRAINAGE SHEET C1.00 FOR OCS STRUCTURE INVERT AND ORIFICE ELEVATIONS.
2. 6" PVC KNIFE GATE TO BE KEPT IN CLOSED POSITION DURING NORMAL OPERATION.



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*Randy Cloutier*



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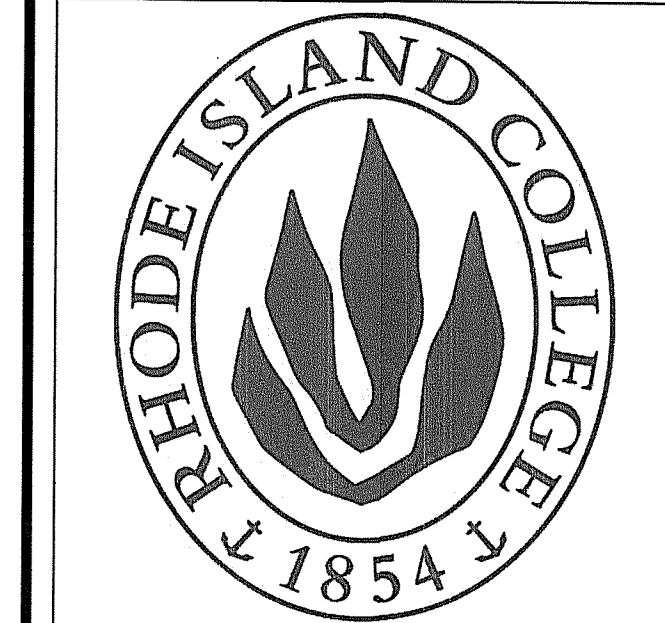
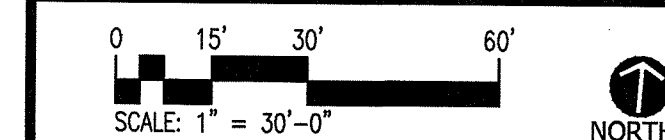


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DRAWN BY: ESW

**CIVIL DETAILS**

MAR 16 2023

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10 OF 14

**C3.01**

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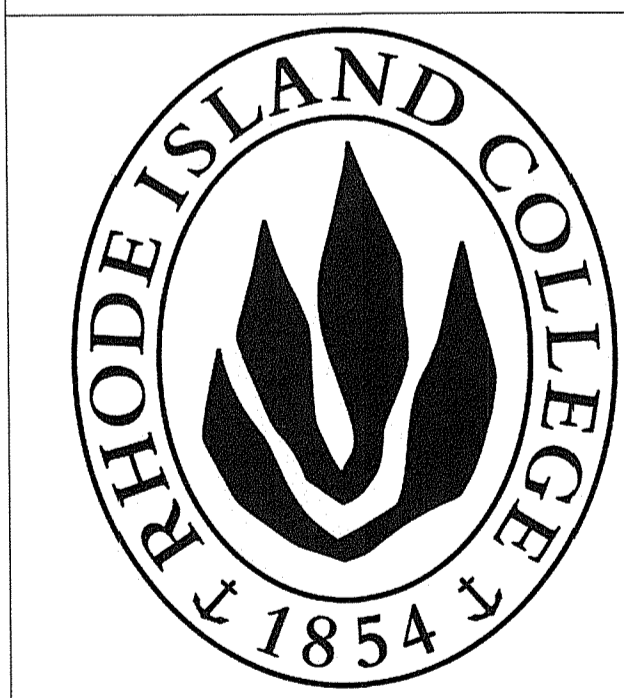
20 Newman Avenue, Suite 2001-A, Rumford, RI 02916  
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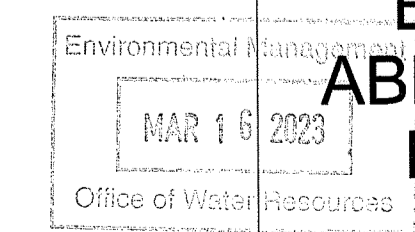
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**ALUMNI FIELD**  
600 MT PLEASANT AVE  
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**ELECTRICAL ABBREVIATIONS, NOTES AND SYMBOLS**



SHEET #: 11 OF 14  
DRAWING NO.: E0.0

**ELECTRICAL ABBREVIATIONS**

AM/AMP	AMPERE
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
ACU	AIR CONDITIONING UNIT
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AI	AMPS INTERRUPTING CURRENT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BSMT	BASEMENT
C	CONDUIT
CATV	CABLE TELEVISION
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT OR COPPER
CUH	CABINET UNIT HEATER
D	DRYER
DEG.	DEGREE
DI	DIAMETER
DN	DOWN
DWG	DRAWING
ETR	EXISTING TO REMAIN
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EP	EMERGENCY PANEL
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FCU	FAN COIL UNIT
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HZ	HERTZ
IG	ISOLATED GROUND
IN	INCHES
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MAX	MAXIMUM
MAU	MAKE-UP AIR UNIT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MH	METAL HALIDE OR MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NA	NOT APPLICABLE
NE	NEW DEVICE INSTALLED IN SAME LOCATION AS EXISTING REMOVED DEVICE
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NEW LOCATION OF RELOCATED DEVICE
NR	NEW TO REPLACE EXISTING
NTS	NOT TO SCALE
P	POLE
PE	PRIMARY ELECTRIC SERVICE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RE	EXISTING TO BE REMOVED
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL CONDUIT
RL	EXISTING TO BE RELOCATED
RM	ROOM
RN	EXISTING TO BE REMOVED AND REPLACED WITH NEW (EXISTING BACKBOXES, CONDUIT AND WIRING TO REMAIN)
RR	EXISTING TO BE RELOCATED IN SAME LOCATION ON NEW SURFACE
RTU	ROOFTOP UNIT
SE	SECONDARY ELECTRICAL SERVICE
SPEC	SPECIFICATION
SWBD	SWITCHBOARD
SPD	SURGE PROTECTION DEVICE
TELE	TELECOMMUNICATIONS/TELEPHONE
TV	TELEVISION
T/X	TRANSFORMER
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERE
VAC	VOLTS ALTERNATING CURRENT
VIF	VERIFY IN FIELD
W	WATT OR WIRE
WA	WASHER
WG	WIRE GUARD
WP	WEATHERPROOF

**ELECTRICAL SYMBOLS**

SYMBOL	DESCRIPTION
□	HANDHOLE

**GENERAL SITE ELECTRICAL NOTES**

- REFER TO THIS SHEET FOR SYMBOLS LIST.
- COORDINATE SITE LIGHTING LOCATIONS WITH SITE LANDSCAPING PLANS.
- REFER TO DRAWING ES.0 FOR SITE ELECTRICAL DETAILS.
- WHERE UNDERGROUND UTILITIES ARE LIKELY TO BE ENCOUNTERED THE CONTRACTOR SHALL EXCAVATE BY HAND.
- REFER TO LANDSCAPE & CIVIL SITE PLANS FOR FINAL LOCATIONS OF LIGHTING FIXTURES, FLAGPOLES AND OTHER SITE UTILITIES.
- WHERE 277V & 120V CIRCUITS OCCUPY THE SAME HANDHOLE/RACEWAY, IDENTIFY NEUTRAL CONDUCTORS PER NEC.
- PROVIDE CONDUIT PLUGS WITH 1/4" NYLON DRAG LINE ATTACHED IN ALL EMPTY CONDUITS.

**UNDERGROUND UTILITY NOTE**

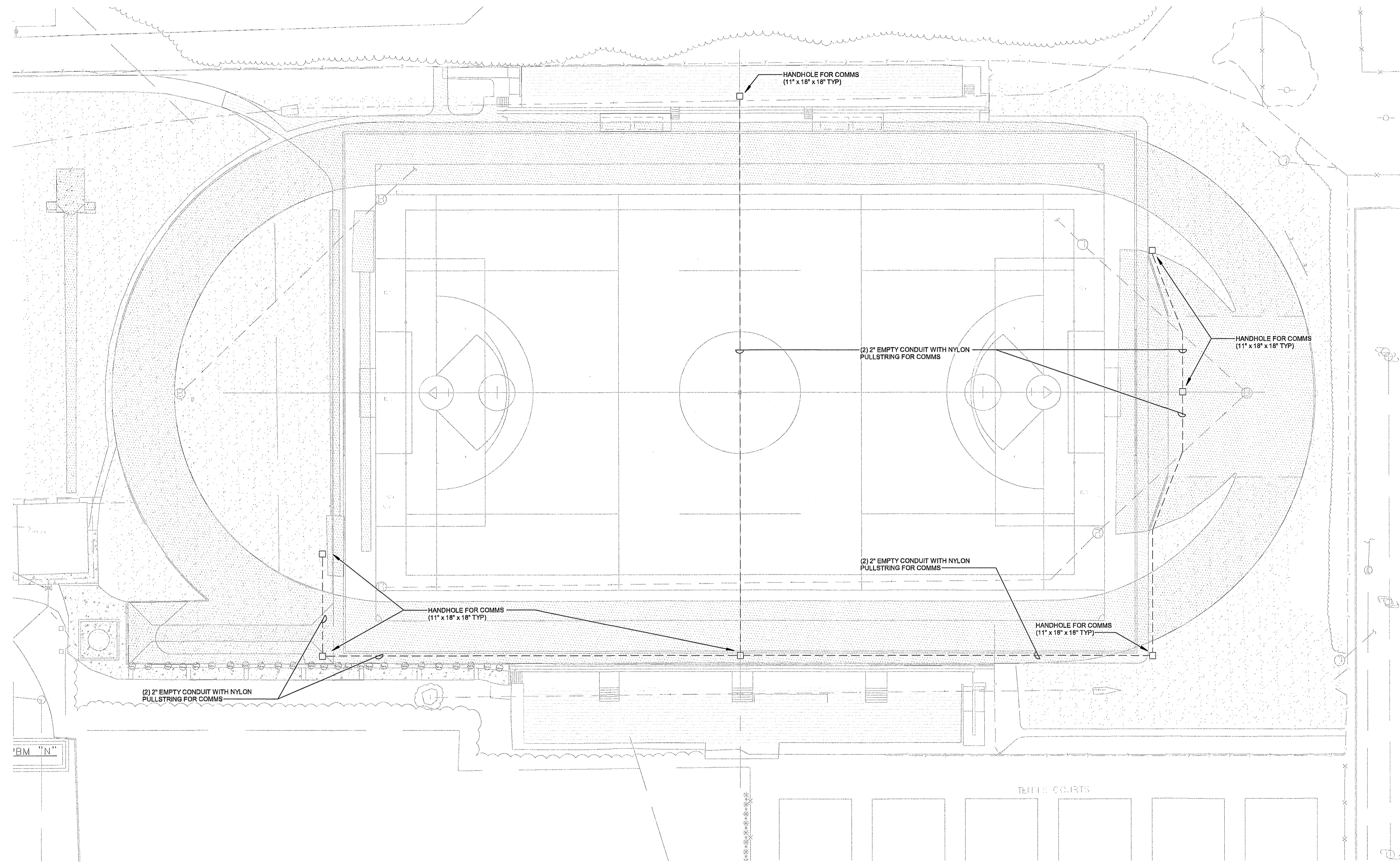
THE CONTRACTOR IS TO BE FULLY RESPONSIBLE FOR CONTACTING THE LOCAL CABLE TELEVISION COMPANY, POWER COMPANY, TELEPHONE COMPANY, GAS COMPANY, WATER AND SEWER COMPANY AND ANY OTHER UTILITY COMPANY WITHIN THE AREA PRIOR TO PROCEEDING WITH ANY EXCAVATION. BY LAW, THE CONTRACTOR IS REQUIRED TO CALL BEFORE DOING ANY EXCAVATION, DIGGING HOLES OR DRIVING POSTS REGARDLESS OF WHETHER IT IS WITHIN THE STREET LINE OR ON PRIVATE PROPERTY. OBTAIN INFORMATION REGARDING THE EXISTENCE AND LOCATION OF ANY UNDERGROUND FACILITIES BY CALLING 811.

**WATER PREVENTION MEASURES**

- PROVIDE FOAM SEALANT FOR ALL ACTIVE ELECTRIC CONDUITS CONTAINING CONDUCTORS, EQUAL TO POLYWATER FST. LOCATE AT INTERIOR END OF EACH ACTIVE CONDUIT. FOR SPARE CONDUITS WITHOUT CONDUCTORS, PROVIDE CAP AT EACH END.
- ALL CONDUITS (ACTIVE AND SPARE) SHALL SWEEP UPWARD A MINIMUM OF 12" ABOVE THE BASE OF HANDHOLES OR OTHER EXTERIOR STRUCTURES.

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*Andy Clapton*



1 ELECTRICAL FIELD PLAN  
1/32" = 1'-0"

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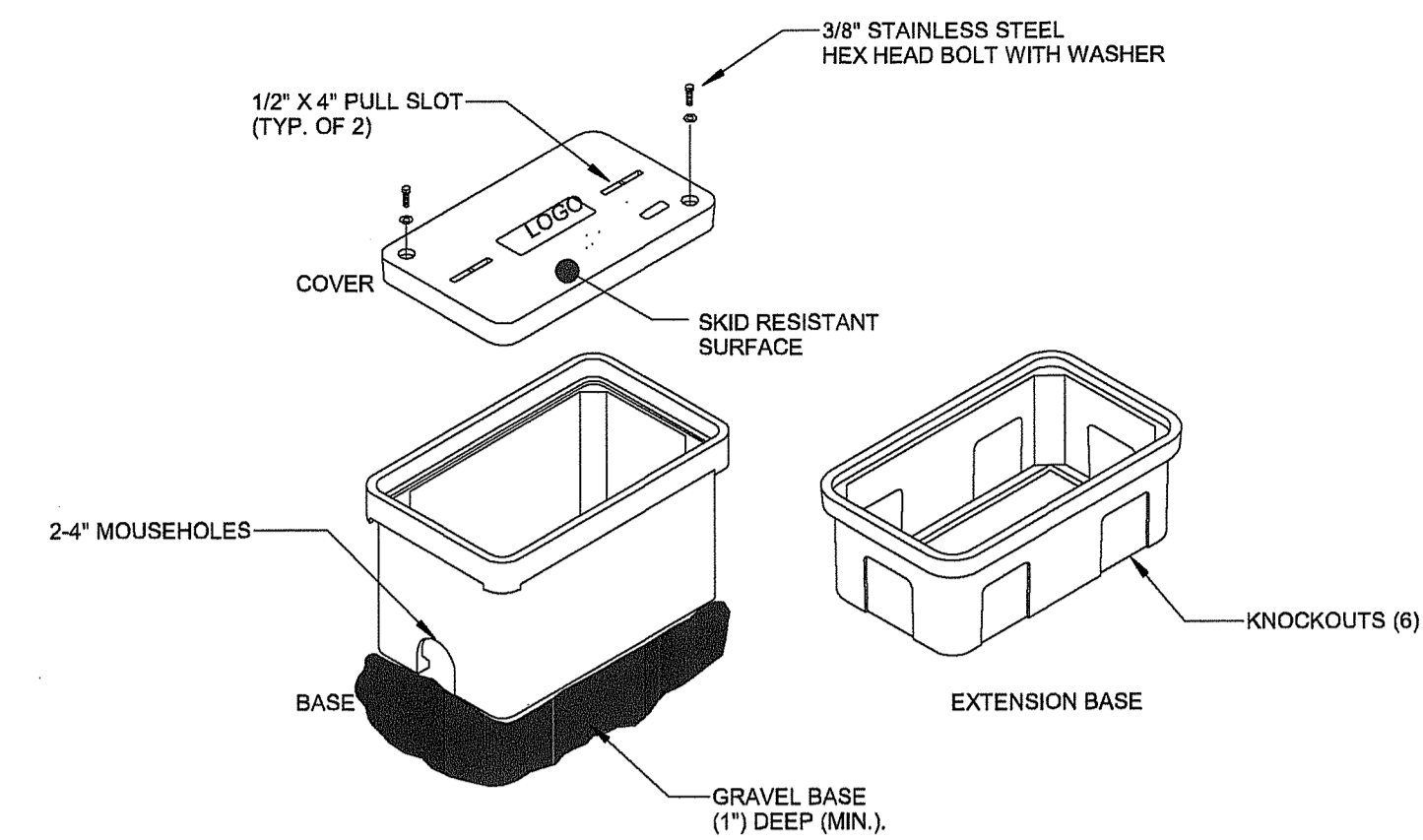
*Andy Chapin*

Environmental Management  
MAR 16 2023  
Office of Water Resources

PROJECT NO: DRAWN BY: MCW

**ELECTRICAL FIELD PLAN**

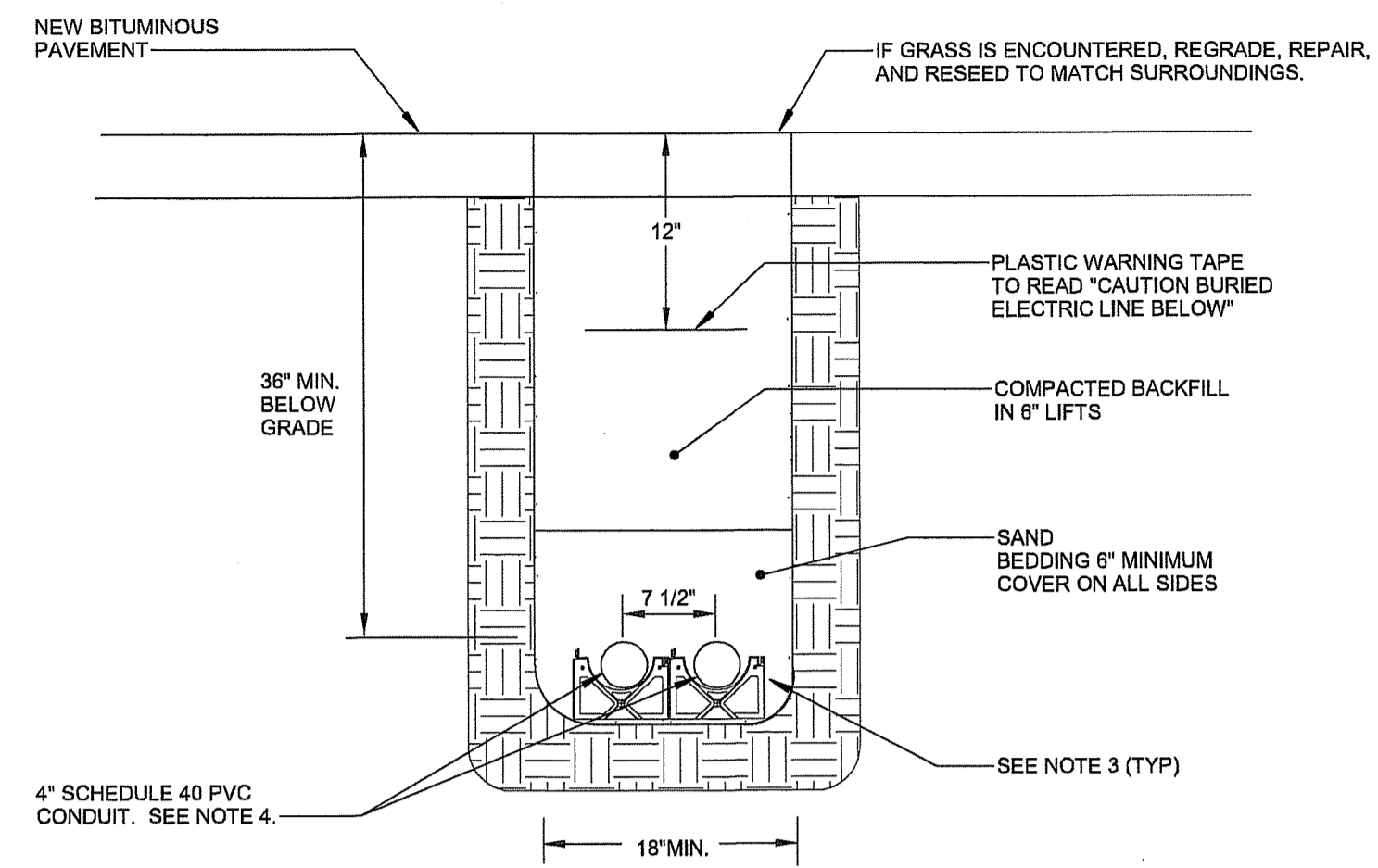
SHEET #: 12 OF 14 DRAWING NO: E1.0



**NOTES:**

1. PROVIDE STANDARD HANDHOLE. COVER COLOR SHALL BE AS COORDINATED WITH THE OWNER.
2. COVER, RING AND BOX SHALL BE MADE OF SAME MATERIAL.
3. PROVIDE IMPRINTED LOGO WITH 'ELECTRIC' OR 'COMMUNICATIONS' LOGO AS INDICATED ON DRAWINGS.
4. PROVIDE EXTENSION BASES AND GRADE ADJUSTABLE EXTENSIONS TO SET FLUSH WITH GRADE AND TO SET AT DEPTH TO ALLOW CONDUITS TO ENTER THE BASE HORIZONTALLY.
5. PITCH CONDUITS AWAY FROM HANDHOLE.
6. REFER TO DRAWINGS FOR SIZES.
7. PROVIDE TIER 22 DESIGN FOR ALL HANDHOLES.
8. PROVIDE HANDHOLE WITH DIVIDED INTERIOR OPTION TO SEPARATE POWER AND COMMUNICATIONS CABLING, WHERE MULTIPLE SERVICES ARE SHOWN ON SITE PLAN.

**1 HANDHOLE DETAIL**  
NTS



**NOTES:**

1. TYPICAL CONDUITS AND QUANTITIES SHOWN, REFER TO DRAWINGS FOR QUANTITIES AND SIZES.
2. COORDINATE AND GROUP CONDUITS IN COMMON TRENCH. SINGLE ROW SHOWN, MULTIPLE ROW DUCT BANKS ARE ACCEPTABLE, MAINTAINING SEPARATION DISTANCE REQUIREMENTS.
3. PROVIDE SUITABLE SEPARATORS AND CHAIRS 4 FT. MAX. ON CENTER, SET TO COMPACTED TRENCH BOTTOM AND BAND CONDUITS TOGETHER PRIOR TO BACKFILL OR PLACING CONCRETE.
4. REFER TO CONCRETE ENCASUREMENT DETAIL WHERE CONCRETE ENCASUREMENT IS REQUIRED. USE TYPE 'EB' SCHEDULE 40 PVC CONDUIT.

**2 TYPICAL TRENCHING DETAIL**  
NTS

**KAESTLE BOOS**  
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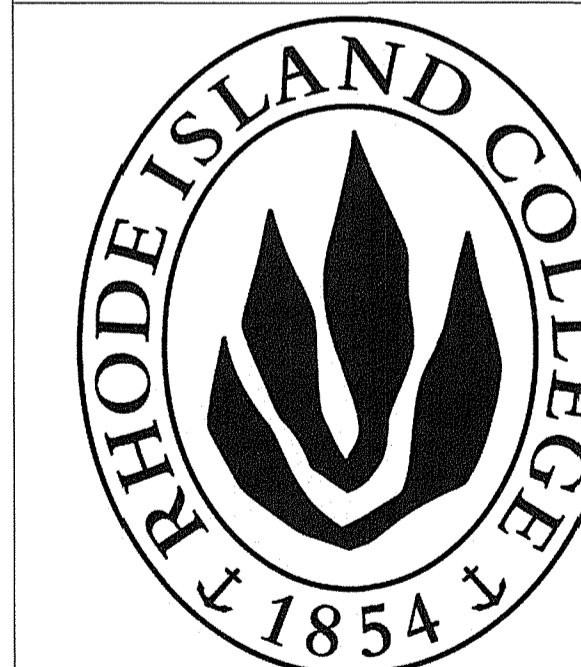
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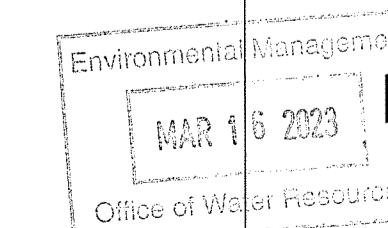
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**ELECTRICAL**  
**DETAILS**

SHEET #:  
13 OF 14

DRAWING NO.:  
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*Andy Clapperton*