

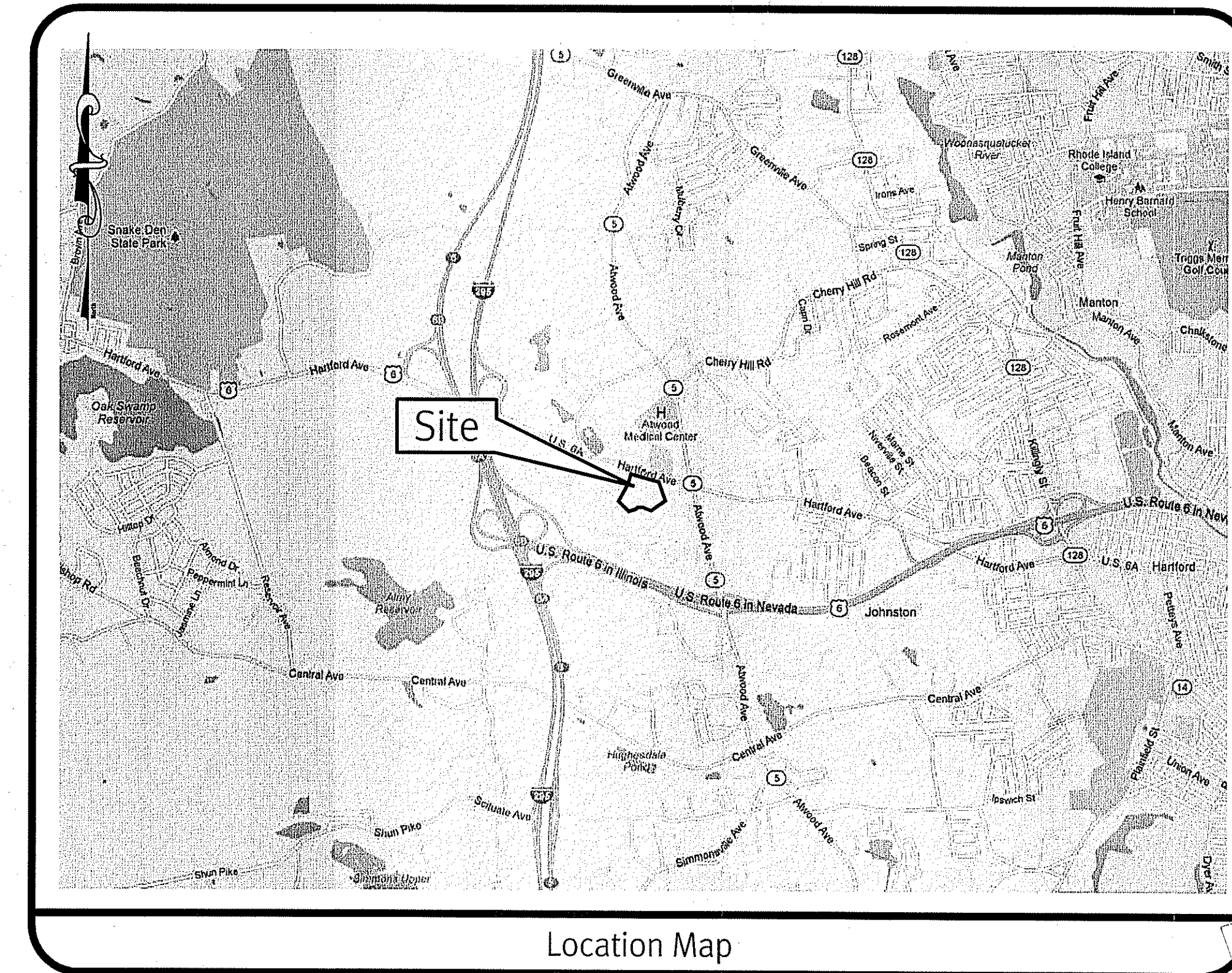
RIDEM Permit Modification Submission

Johnston Towne Centre

Located on Hartford Avenue (Route 6A)

Johnston, Rhode Island

Assessor's Plat 44/3 Lot 86



Location Map

Sheet Index

1. Cover Sheet
2. Aerial Half Mile Radius Map
3. Existing Conditions Plan
4. Overall Plan
5. Grading/Utility Plan
6. Detail Sheet - 1
7. Detail Sheet - 2
8. Detail Sheet - 3
9. Detail Sheet - 4

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JAN 11, 2012 FILE # 09-0280
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hallett

Cover Sheet
 Johnston Towne Centre

Applicant:
 TC Johnston, LLC c/o Jeff Saldini
 1450 Hartford Avenue, Johnston RI 02899
 Assessor's Plat 44/3 Lot 86
 Owner:
 Hartford Avenue Associates
 1000 Main Street, Johnston RI 02899
 Warwick, Rhode Island 02886
 tel: 401-944-5900

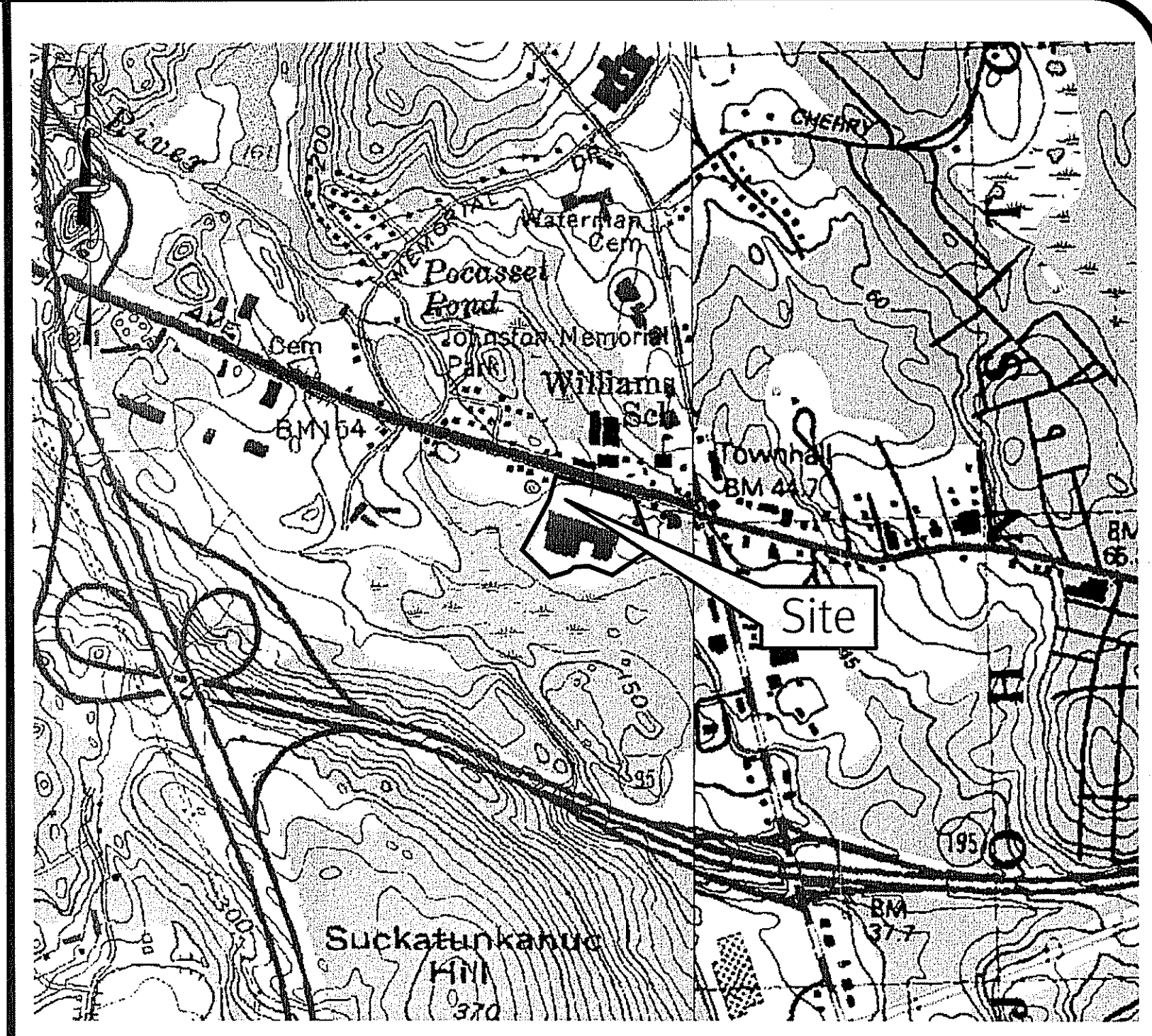
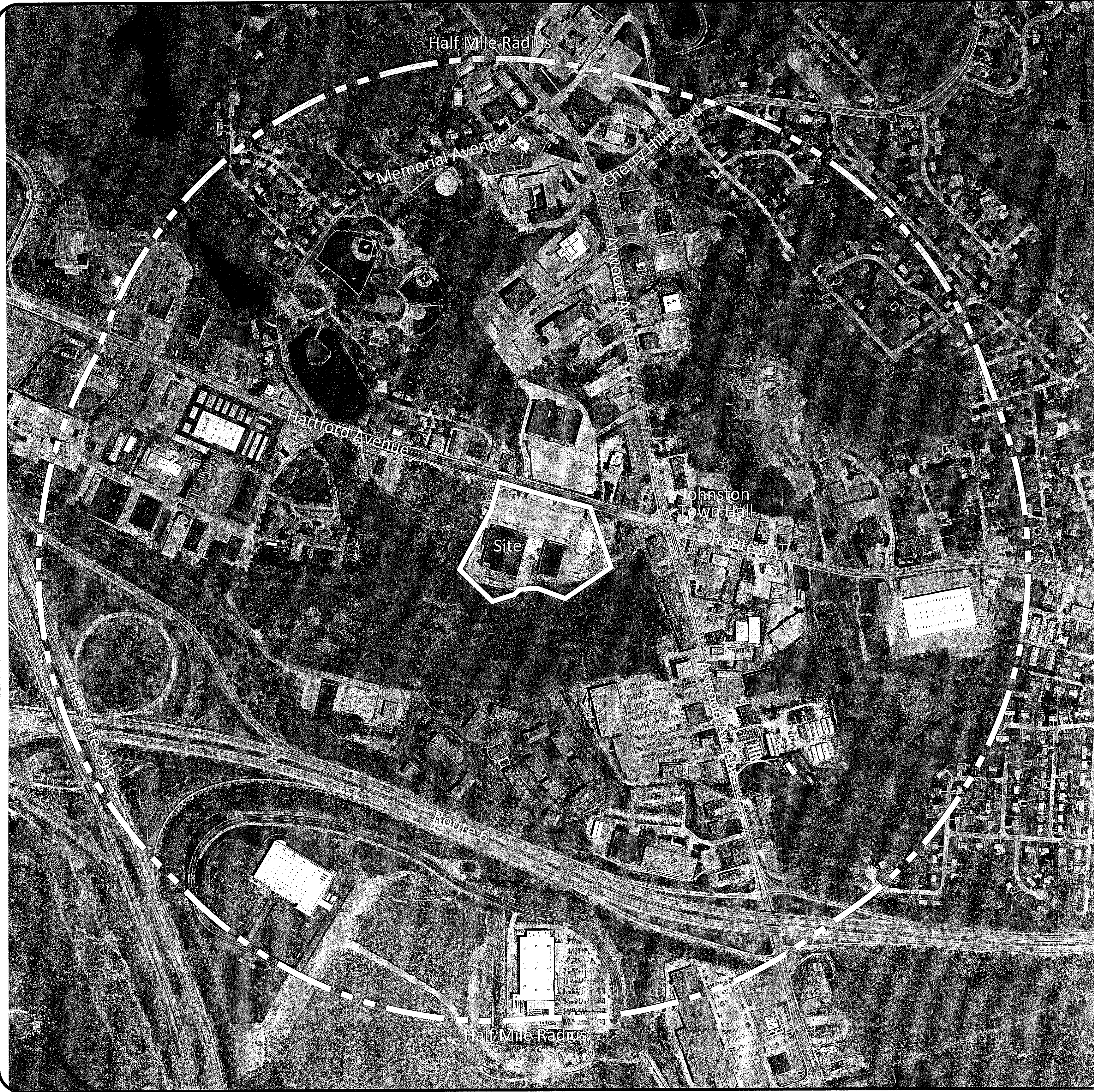
Diprete Engineering
 Two Stafford Court, Cranston, RI 02920
 tel: 401-943-1000 fax: 401-644-6006 www.Diprete-Eng.com
 Engineers • Planners • Surveyors

KEVIN C. MORIN
 No. 7051
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped, issued for construction, and signed by a Diprete Engineering representative.
 The contractor is responsible for all of the means, methods, safety, precautions and requirements, and OSHA conformance in the implementation of this plan and design.

DEC 20 2012

RIDEM COPY 09-0280



USGS Map Scale: 1"=1000'
 Photo obtained from the RI-GIS USGS 7.5 Minute Topographical Map.

Photo obtained from the "2011 RIDEM Multispectral Orthophotography of Rhode Island" Published by the United States Geological Survey
 Scale: 1"=300'
 0 150' 300' 600'

DiPrete Engineering
 Two Stafford Court Cranston, RI 02920
 Tel: 401-943-1000 Fax: 401-464-6006 www.DiPrete-Eng.com
Engineers • Planners • Surveyors

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 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

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| No. | Date | Description | By |
|-----|----------|--------------------------------------|-------------------|
| 0 | 12-29-12 | RIDEM Permit Modification Submission | B.A.H. |
| | | Drawn By: B.A.H. | Design By: B.A.H. |

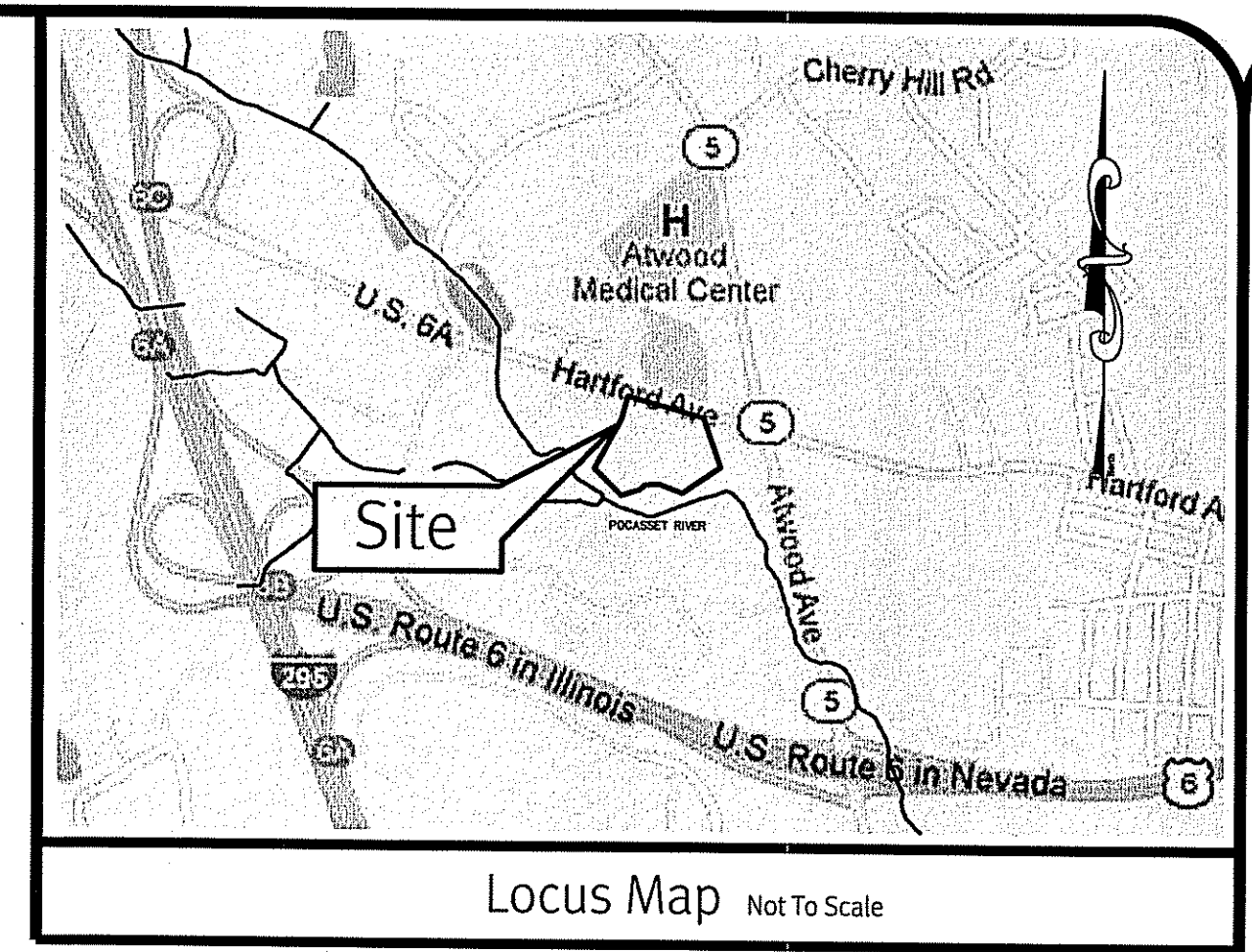
Aerial 1/2 Mile Radius Map
Johnston Towne Centre
 Applicant: TC Johnson, LLC / o Jeff Salefin
 1450 Hartford Avenue, Johnston RI 02939
 Assessor's Pin: 443 1 104 86
 Owner: Hartford Avenue Associates
 75 Lambert Line Highway, Johnston 02930
 Assessor's Pin: 443 1 104 86
 Tel: 401-943-9900
 DE No. No. 035-505 Copyright 2012 by DiPrete Engineering Associates, Inc.

Legend

- BUILDING
- ASPHALT
- AP N/F
- ASSESSOR'S PLAT
- PROPERTY LINE
- ASSESSOR'S LINE
- TREELINE
- RETAINING WALL
- MINOR CONTOUR LINE
- MAJOR CONTOUR LINE
- W WATER LINE
- S SEWER LINE
- G GAS LINE
- ABANDONED GAS LINE
- E ELECTRIC LINE
- OHW OVERHEAD WIRES
- 12" DRAINAGE LINE
- 48" DRAINAGE LINE
- SOIL BOUNDARY LINE
- ROAD STRIPING
- ▲/△ NAIL FOUND/SET
- /○ DRILL HOLE FOUND/SET
- /○ IRON ROD/PIPE FOUND/SET
- SIGN
- BOLLARD
- CATCH BASIN
- DCB DOUBLE CATCH BASIN
- DMH DRAINAGE MANHOLE
- GUY POLE
- EMH ELECTRIC MANHOLE/HANDHOLE
- UTILITY/POWER POLE
- LIGHTPOST
- SMH SEWER/SEPTIC MANHOLE
- SEWER VALVE
- SEWER CLEANOUT
- HYDRANT
- WATER VALVE
- GAS VALVE
- B-1 WETLAND FLAG

Soil Information:

- (REFERENCE: SOIL SURVEY OF RHODE ISLAND, U.S.D.A. SOIL CONSERVATION SERVICE)
 SOIL NAME DESCRIPTION
 Aa ADRIAN MUCK URBAN LAND COMPLEX
 Ud URBAN LAND
 Ur URBAN LAND



General Notes

1. THE PARCEL IS LOCATED IN THE TOWN OF JOHNSTON ON ASSESSOR'S PLAT 44, LOT 86.
2. THE OWNER PER DEED BOOK 118 PAGE 762 IS HARTFORD AVENUE ASSOCIATES.
3. THE SURVEYED AREA OF THE PARCEL IS 468,260 SQUARE FEET (10.75 ACRES)
4. THE PARCEL IS LOCATED IN ZONE X, X SHADED & AE PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 440070284G, DATED MARCH 2, 2009.
5. THE PARCEL IS ZONED B-2 WITH A REDEVELOPMENT OVERLAY DISTRICT PER THE ASSESSOR'S ONLINE DATABASE AND ORDINANCE 2009-21. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
6. THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
7. THERE WERE NO VISIBLE ABOVEGROUND ENCROACHMENTS OBSERVED, OTHER THAN SHOWN ON SURVEY.
8. FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING, AREA ALONG ROUTE 6 SURVEYED ON JUNE 7, 2012 FOR RECENT IMPROVEMENTS. VERTICAL DATUM IS NAVD 29.
9. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY OBSERVATIONS ONLY TOGETHER WITH EXISTING PLANS BY OTHERS. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR MISSING UNDERGROUND UTILITIES, EITHER IN SERVICE OR ABANDONED, NOT OBSERVED AT THE TIME OF THE SURVEY. (PLEASE CONTACT DIGSAFE 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 1-800-344-7233).
10. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS THAT A TITLE REPORT WOULD DISCLOSE.
11. THERE ARE NO STREET TREES ALONG THE FRONTAGE OF THIS PARCEL.
12. THE NEAREST DISTANCE TO A RESIDENTIAL USE IS APPROXIMATELY 375 FEET. THIS RESIDENTIAL AREA IS LOCATED TO THE NORTHWEST OF THE SITE ON PARKSIDE DRIVE.

Plan References:

1. R.I. DEPARTMENT OF TRANSPORTATION RECONSTRUCTION OF HARTFORD AVENUE 1-295 TO ATWOOD AVENUE PLAT NO. 2633* JOHNSTON, R.I. SHEET 10 OF 11 SCALE: 1"=20' DATED 9/19/2005 BY VANASSE HANGEN BRUSTLIN, INC.
2. "ALTA/ACSM LAND TITLE SURVEY WESTGATE SHOPPING CENTER HARTFORD AVENUE JOHNSTON, RHODE ISLAND ASSESSOR'S PLAT 44 LOT 86" PREPARED BY DIPRETE ENGINEERING PREPARED FOR WESTGATE PLAZA REALTY, LLC SCALE: 1"=50' DATED JUNE 19, 1998 REVISED 3-28-08.

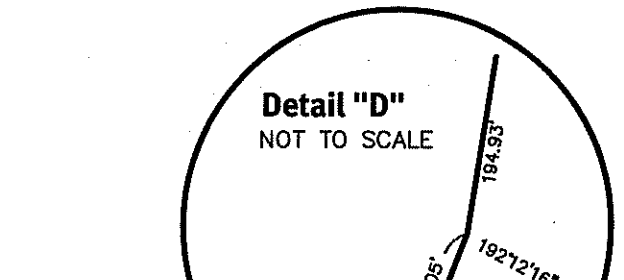
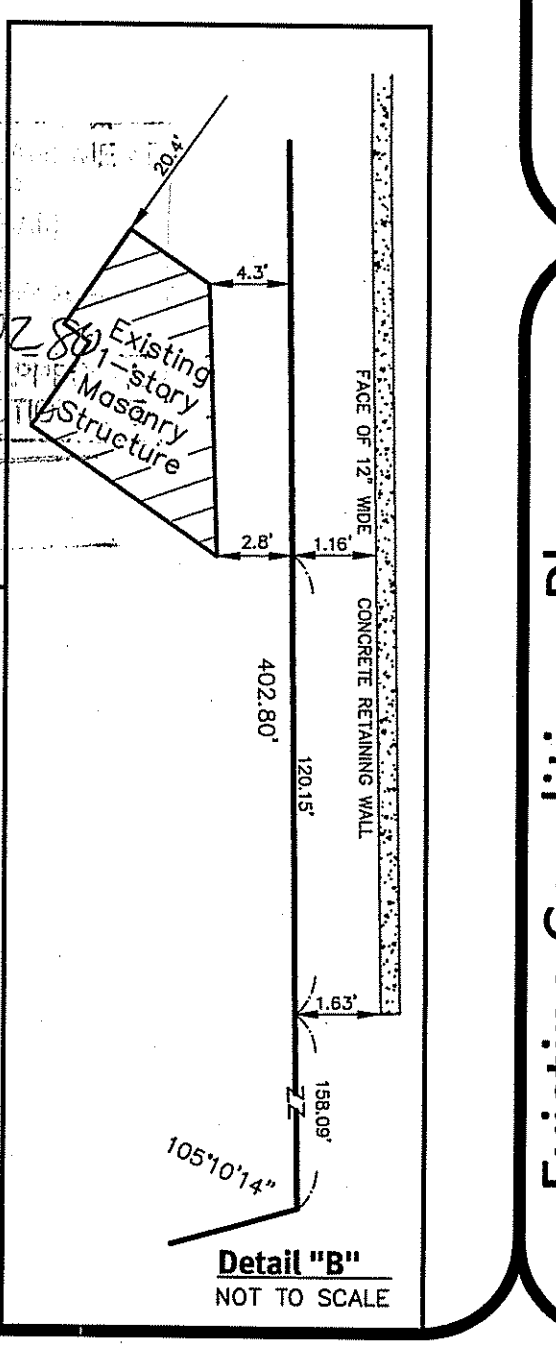
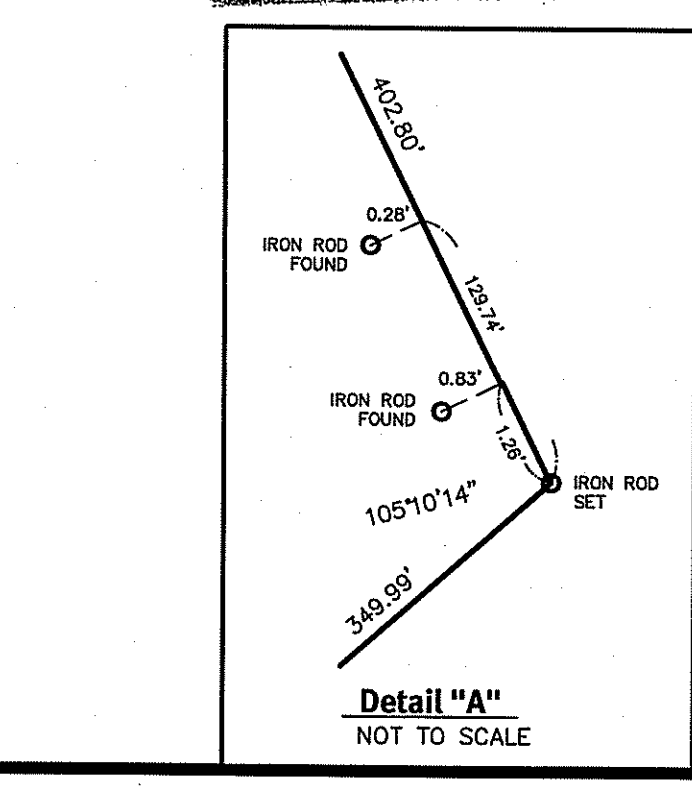
*** Flood Plain/Datum Conversion**

CURRENT FEMA MAPS DEPICT 100 YEAR FLOOD PLAIN AT ELEVATION 136.0 - 137.0 ON NAVD'88 VERTICAL DATUM. EXISTING CONDITIONS PLAN IS ON NAVD'29 VERTICAL DATUM WITH FLOOD PLAIN AT ELEVATION 136.8 - 137.8.

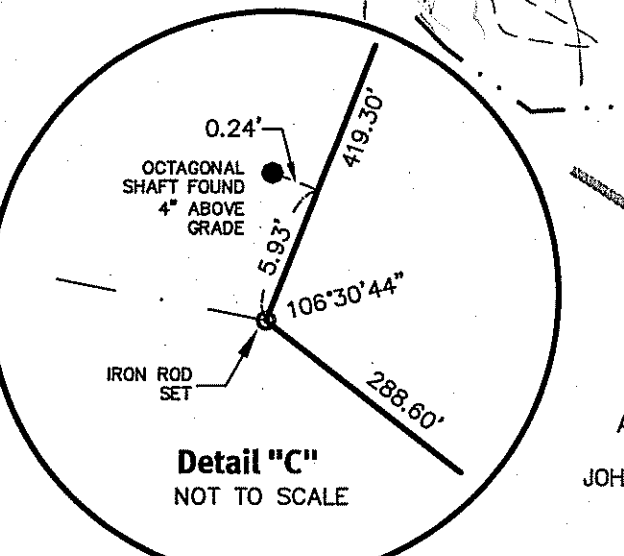
| | NGVD'29 DATUM (THIS PLAN) | NAVD'88 DATUM (CURRENT FEMA MAP) |
|----------------------|---------------------------|----------------------------------|
| BASE FLOOD ELEVATION | 136.8 - 137.8 | 136.0 - 137.0 |

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF DATED JAN 11, 2012 FILE # 09-02-2011
 NO CHANGES ALLOWED WITHOUT FRESHWATER WETLANDS PROGRAM APPROVED PLANS MUST BE AT CONSTRUCTION

Charles A. Hester



AGREEMENT FOR RIGHT TO INSTALL DRAINAGE STRUCTURES AND FOR RIGHT OF FLOWAGE BETWEEN MOUNT HOPE SHOPPING CENTER AND THE STATE OF RHODE ISLAND DEPARTMENT OF PUBLIC WORKS DIVISION OF ROADS AND BRIDGES DATED NOVEMBER 9, 1959 AND RECORDED IN BOOK 88 AT PAGE 561 OF THE LAND EVIDENCE RECORDS OF THE TOWN OF JOHNSTON.



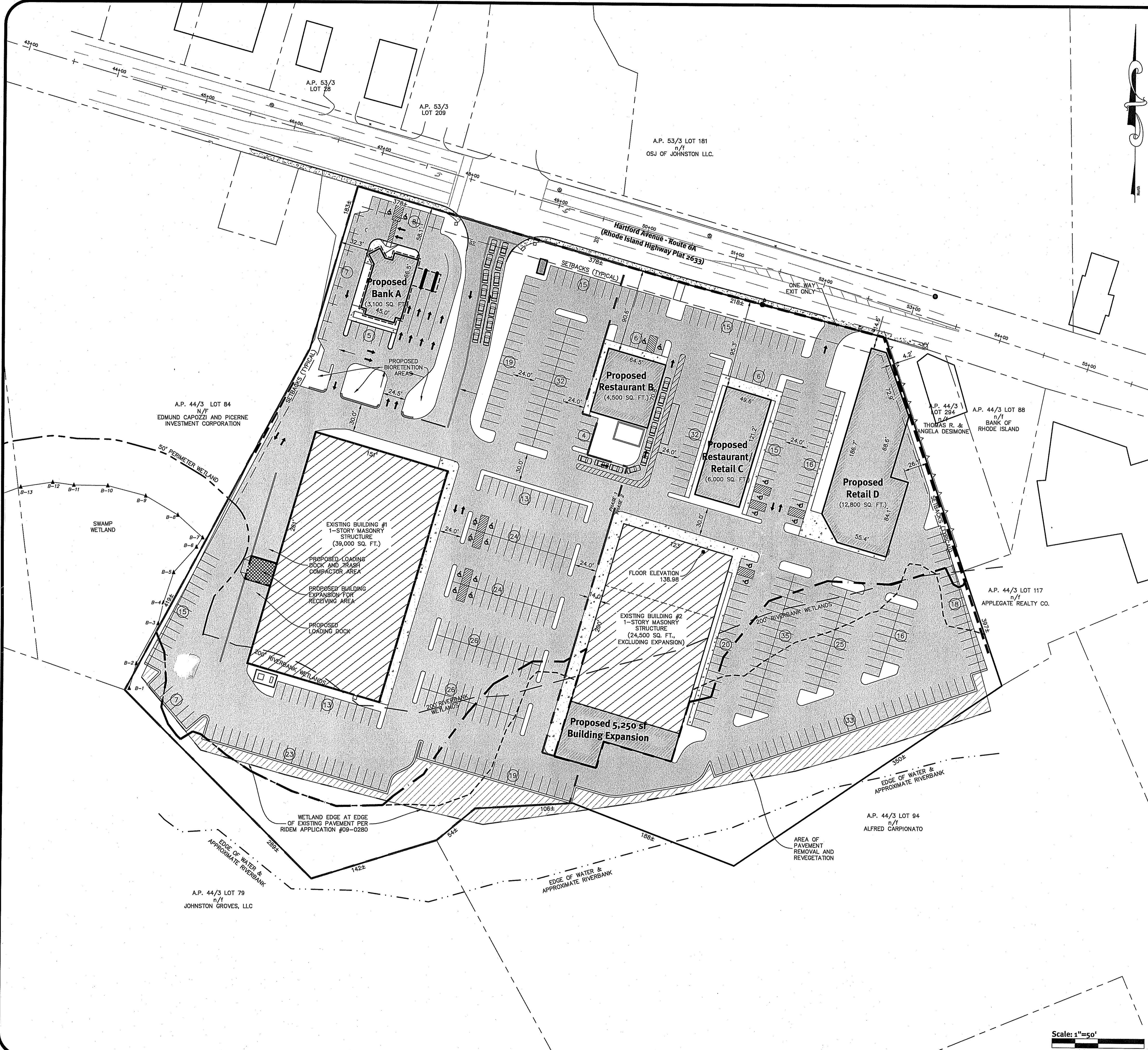
DiPrete Engineering
 Two Stafford Court Cranston, RI 02920
 Tel: 401-949-1000 Fax: 401-949-6006 www.DiPrete-Eng.com
Engineers • Planners • Surveyors

MICHAEL E. GAVITT
 1981
 PROFESSIONAL LAND SURVEYOR

Certification:
 THIS SURVEY AND PLAN CONFORMS TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS EFFECTIVE APRIL 1, 1984.
 BOUNDARY SURVEY: CLASS I
 TOPOGRAPHIC FEATURE SURVEY: CLASS II
 REGISTERED PROFESSIONAL LAND SURVEYOR
 M.E. Gavitt
 This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.
 The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

| No. | Date | Description | By: B.A.H. | Design By: B.A.H. |
|-----|----------|-------------------------|------------|-------------------|
| 1 | 03/02/12 | ISSUED FOR CONSTRUCTION | B.A.H. | B.A.H. |

Existing Conditions Plan
Johnston Towne Centre
 Applicants: Johnston, LLC c/o Jeff Saelin
 Also Hartford Avenue, Johnston RI 02920
 Assessor's Plat 44, 5 Lot 86
 Hartford Avenue Associates
 75 Sacandaga Crossroad, Suite 204
 Warwick, Rhode Island 02886
 Tel: 401-942-5900
 DE Job No: 0165-036 Copyright 2012 by DiPrete Engineering Associates, Inc.



- General Notes:**
1. THE SITE IS LOCATED ON THE TOWN OF JOHNSTON'S ASSESSORS PLAT 44/3 LOT 86.
 2. THE SITE IS APPROXIMATELY 10.75 ACRES± AND IS ZONED B-2 WITH A REDEVELOPMENT OVERLAY DISTRICT.
 3. THE OWNER OF AP 44/3 LOT 86 IS: HARTFORD AVENUE ASSOCIATES
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886
 - THE APPLICANT OF AP 44/3 LOT 86 IS: TC JOHNSTON, LLC C/O JEFF SALETIN
75 SOCKANOSSET CROSSROAD, UNIT #204
CRANSTON, RI 02920
 4. THE PARCEL WAS PREVIOUSLY APPROVED UNDER RIDEM INSIGNIFICANT ALTERATION PERMIT NO. 09-0280.
 5. SOIL MAPPING OBTAINED FROM SOIL SURVEY OF RHODE ISLAND, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
 6. THE PARCEL IS BEING DEVELOPED UNDER THE TOWN OF JOHNSTON'S REDEVELOPMENT OVERLAY DISTRICT REGULATIONS (ORDINANCE 340-9.1).
 7. THE SITE IS NOT WITHIN A:
GROUNDWATER PROTECTION AREA (RIDEM)
NATURAL HERITAGE AREAS (RIDEM)
SPECIAL AREA MANAGEMENT PLAN (CRMC)
GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
 8. THERE ARE NO EXISTING STRUCTURES ON THE SITE LOCATED IN THE NATIONAL HISTORIC REGISTER OR THAT HAVE BEEN RECOGNIZED AS HAVING HISTORICAL VALUE. THERE ARE NO KNOWN HISTORIC CEMETERIES LOCATED WITHIN OR ADJACENT TO THE SUBJECT PROPERTY.
 9. OVERHEAD UTILITIES ARE PROPOSED WITH UNDERGROUND SERVICES TO EACH BUILDING.
 10. THE PAD SITES ARE TO BE CONSTRUCTED IN TWO PHASES. THE UTILITIES WILL BE CONSTRUCTED FOR THE ENTIRE SITE DURING PHASE 1.

Dimensional Regulations:

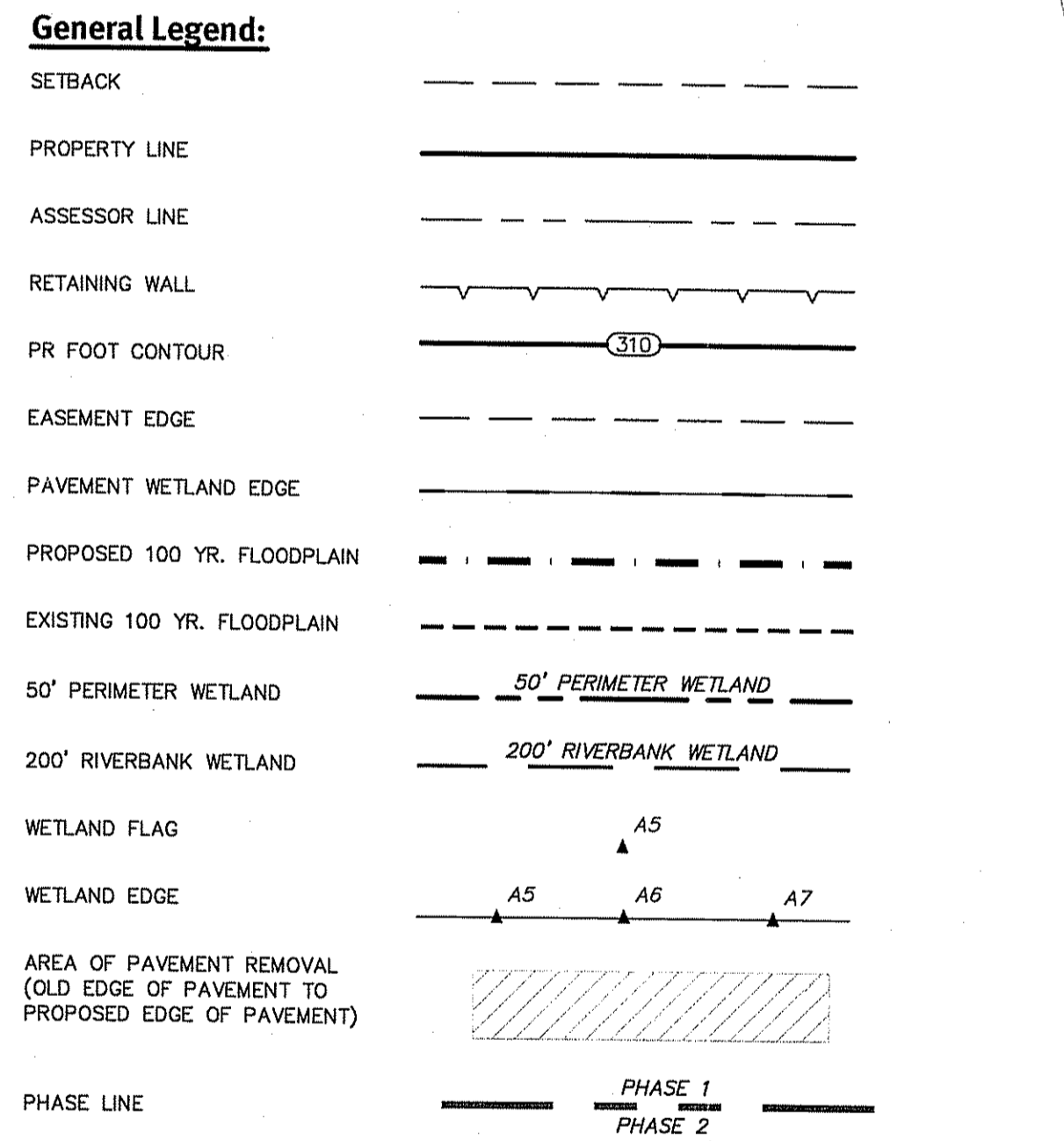
ZONING: B-2 WITH REDEVELOPMENT OVERLAY DISTRICT

| | |
|---------------------------------|--------------------------|
| MAXIMUM BUILDING COVERAGE | 100% |
| MAXIMUM BUILDING HEIGHT | 6 FLOORS |
| MINIMUM LOT AREA | N/A |
| MINIMUM LOT WIDTH | N/A |
| MINIMUM FRONT YARD SETBACK | 20 FT. |
| MINIMUM SIDE YARD SETBACK | 10 FT. |
| MINIMUM REAR YARD SETBACK | 40 FT. |
| MINIMUM FRONT LANDSCAPED BUFFER | 5 FT. FROM PUBLIC STREET |

Impact Analysis:

| | EXISTING SITE | 2009 PERMIT | CURRENT DESIGN |
|------------------------------|---------------|-------------|----------------|
| IMPERVIOUS AREA (ACRES) | 9.80 | 8.80 | 8.44 |
| LIMIT OF DISTURBANCE (ACRES) | N/A | 10.0* | 10.0* |

* THE LIMIT OF DISTURBANCE WILL GENERALLY BE THE SAME IN THE CURRENT DESIGN AS IN THE 2009 PERMIT. THIS IS NECESSARY TO REMOVE EXISTING PAVEMENT WHICH EXTENDS PAST THE DESIRED EDGE OF PAVEMENT AND ADD PLANTINGS. HOWEVER, AN ADDITIONAL BUFFER OF 21,500± SF HAS BEEN ADDED TO THE BUFFER PROVIDED FOR IN THE 2009 PERMIT. THIS ADDITIONAL BUFFER IS PROVIDED BETWEEN THE PROPOSED EDGE OF PAVEMENT AND THE PREVIOUSLY PROPOSED EDGE OF PAVEMENT.



Development Summary:

GROSS LEASABLE AREA (GLA):

| | |
|-------------------------------------|------------|
| EX. BUILDING #1 (DEMISED PREMISES): | 39,000± SF |
| EX. BUILDING #2A: | 16,000± SF |
| EX. BUILDING #2B: | 8,500± SF |
| BUILDING #2 EXPANSION AREA: | 5,200± SF |
| BUILDING #3: | 4,500± SF |
| BUILDING #4: | 12,800± SF |
| BUILDING #5: | 6,000± SF |
| BUILDING #6: | 3,100± SF |
| TOTAL: | 95,100± SF |

NOTE: ALL AREAS ARE APPROXIMATE.

PARKING SPACES PROVIDED: 100 SPACES PER 1,000 SF RETAIL/RESTAURANT USE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JAN 17, 2013 FILE # 09-0280
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hallett

DiPrete Engineering
Two Stafford Court, Cranston, RI 02920
tel. 401-943-1000 fax. 401-943-6006 www.DiPrete-Eng.com
Engineers • Planners • Surveyors

KEVIN C. MORIN
No. 051
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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DEC 20 2012

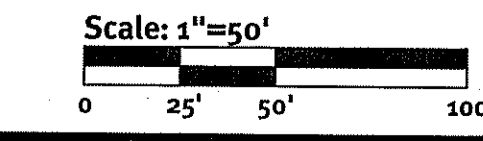
| No. | Date | Description | By: |
|-----|----------|------------------------------------|-------------------|
| 0 | 12-20-12 | RIDEM Form Modification Submission | B.A.H. |
| | | | Design By: B.A.H. |

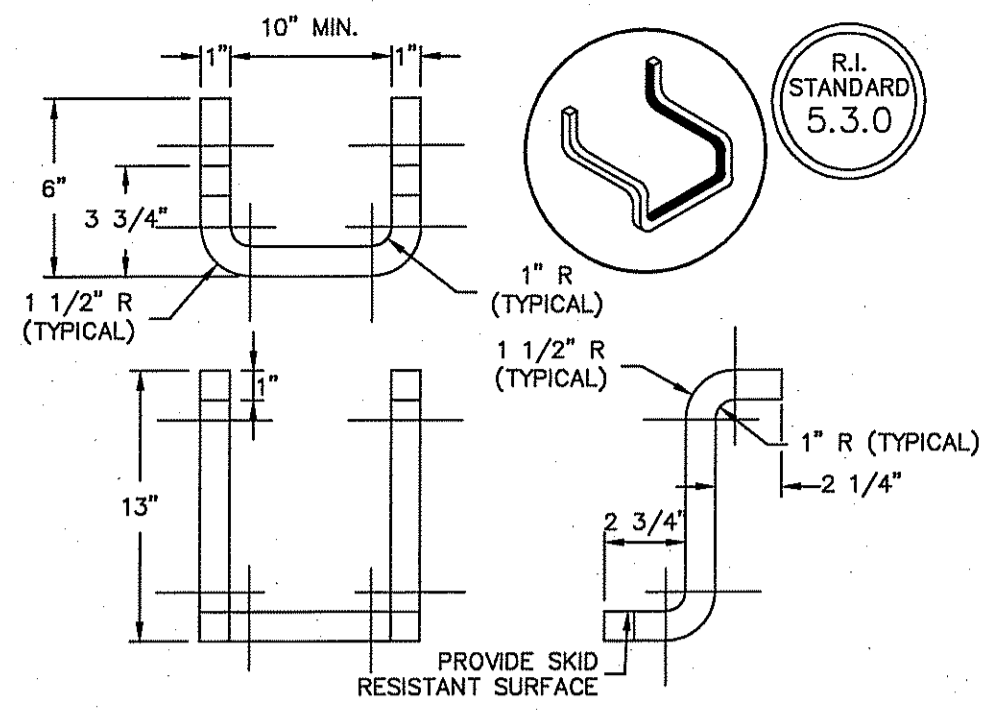
Overall Plan
Johnston Towne Centre
1490 Hartford Avenue, Johnston, RI 02919
Assessor's Plat 44/3 Lot 86

Applicant: TC Johnston, LLC c/o Jeff Saletin
75 Sockanosset Crossroad, Suite 204
Cranston, Rhode Island 02920
tel. 401-943-1000

Owner: Hartford Avenue Associates
1490 Hartford Avenue, Johnston, RI 02919
Assessor's Plat 44/3 Lot 86
tel. 401-943-1000

DE File No. 035-035 Copyright 2012 by DiPrete Engineering Associates, Inc.



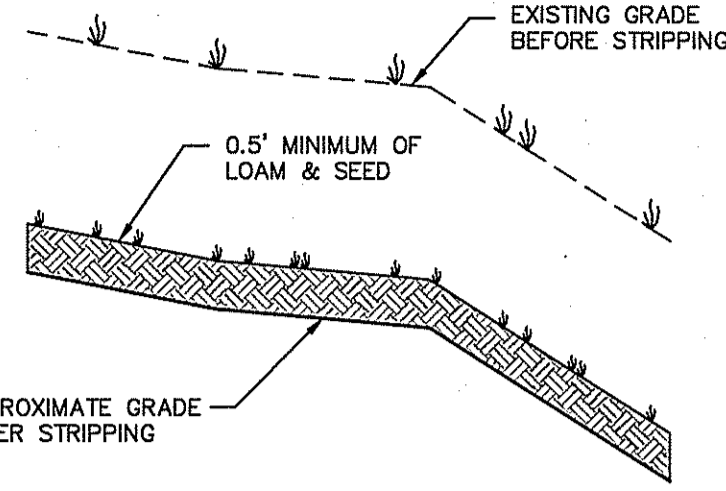


- NOTES:**
- STEPS SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
 - CROSS SECTION AREA MAY BE REDUCED UPON SUBMISSION OF CERTIFIED LOAD TESTS. STEPS MUST SUPPORT 300 LBS.
 - STOCK SHOWN IS 1" SQUARE WHICH MAY BE REPLACED BY 1" DIAMETER.

CATCH BASIN AND MANHOLE STEP

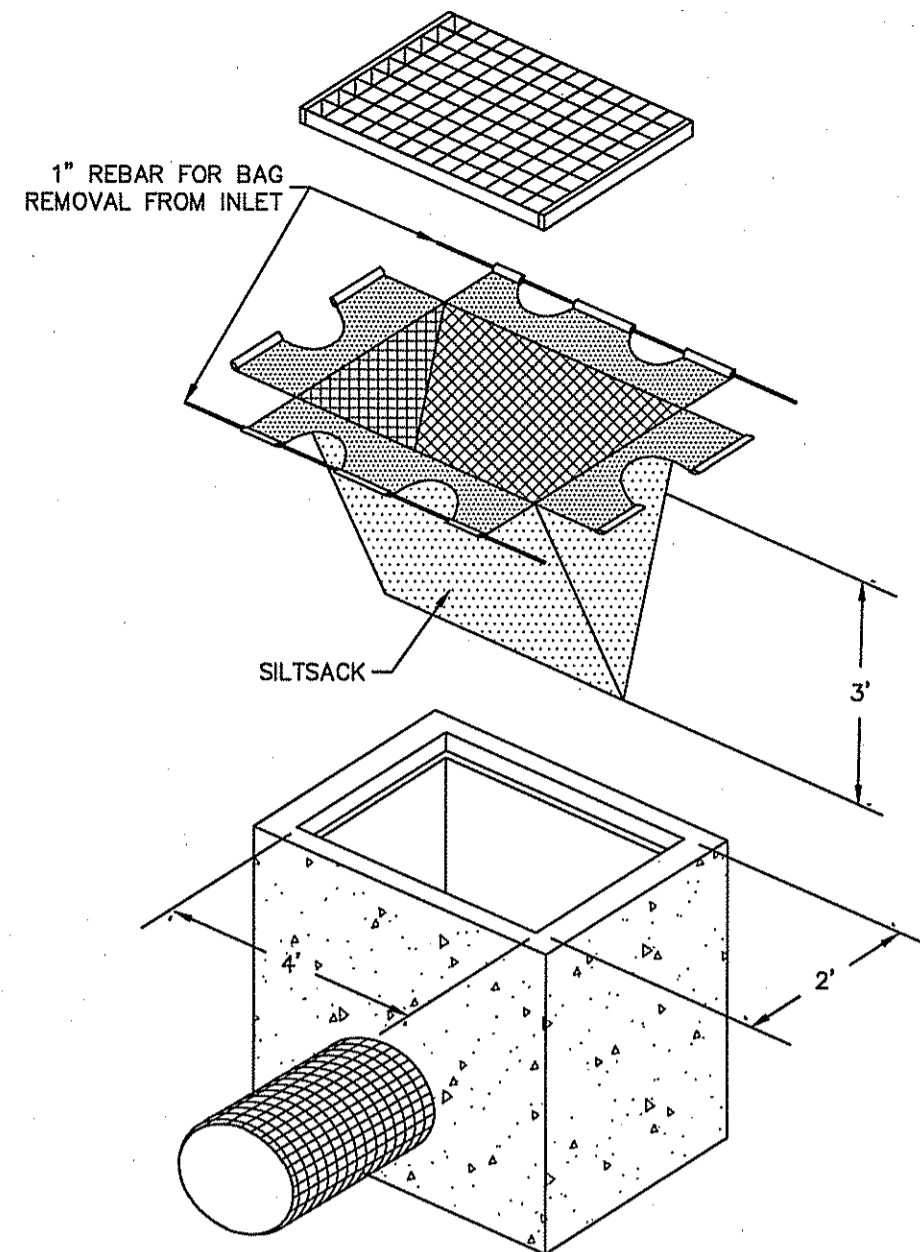
NOT TO SCALE

- NOTES:**
- THIS DETAIL IS PROVIDED AS THE MINIMUM REQUIREMENTS TO BE MET BY THE CONTRACTOR.
 - THIS DETAIL ONLY IS VOID IN CASES WHERE CONFLICTS OCCUR WITH THE PLANTING DETAILS PROVIDED BY A LANDSCAPE ARCHITECT REGISTERED WITH THE STATE OF RHODE ISLAND.
 - SPECIAL CARE SHALL BE TAKEN TO INSURE THAT THE SOIL EROSION CONTROL MEASURES AND PROCEDURES ARE FOLLOWED.



RE-ESTABLISHMENT OF VEGETATIVE COVER (AREA OF TOPSOIL STRIPPING)

NOT TO SCALE

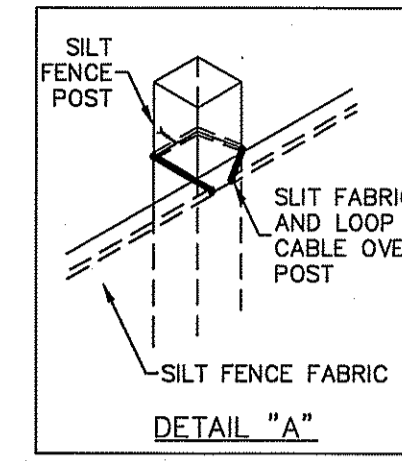


- NOTE:**
- REGULAR FLOW=40 GAL./MIN./SF
HIGH FLOW=200 GAL./MIN./SF
- SILT SACKS ARE TO BE INSTALLED DURING CONSTRUCTION TO PROTECT THE DRAINAGE SYSTEM.

SILT SACK DETAIL

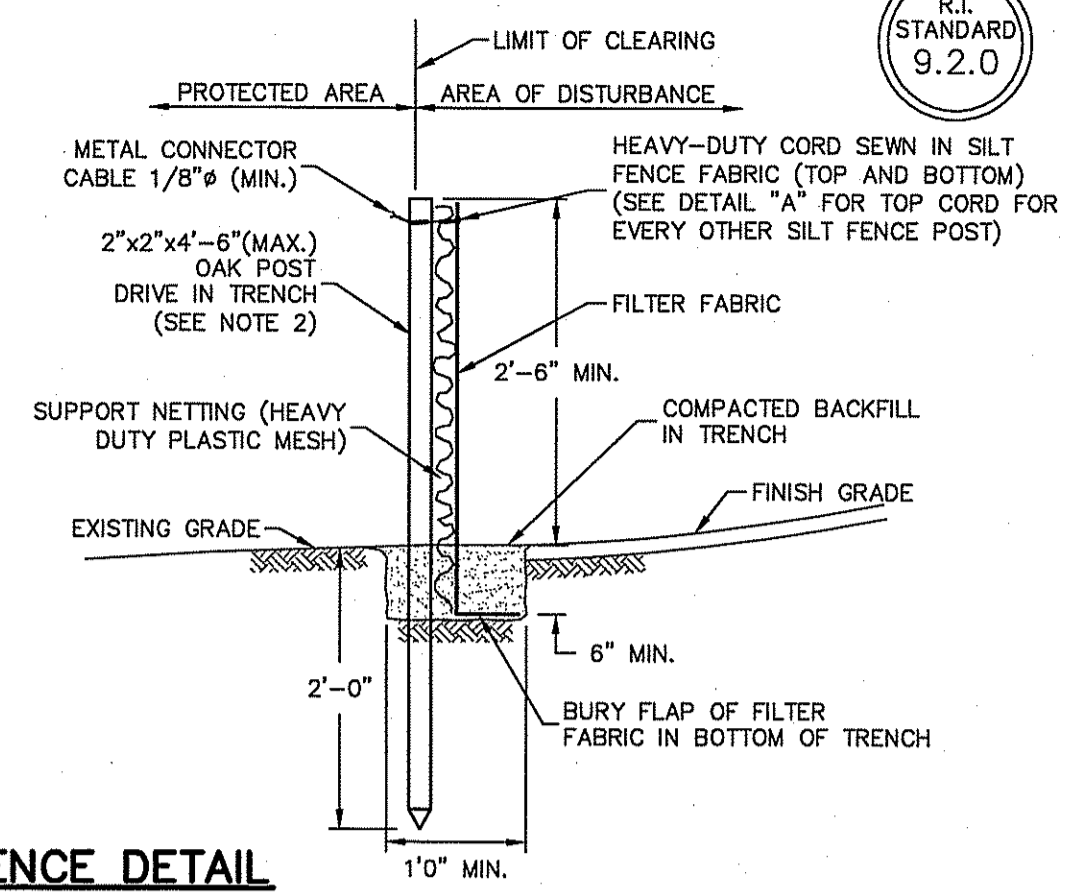
NOT TO SCALE

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 - 2"x2"x4'-6" (MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 - 1"x1"x4'-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 - SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



SILT FENCE DETAIL

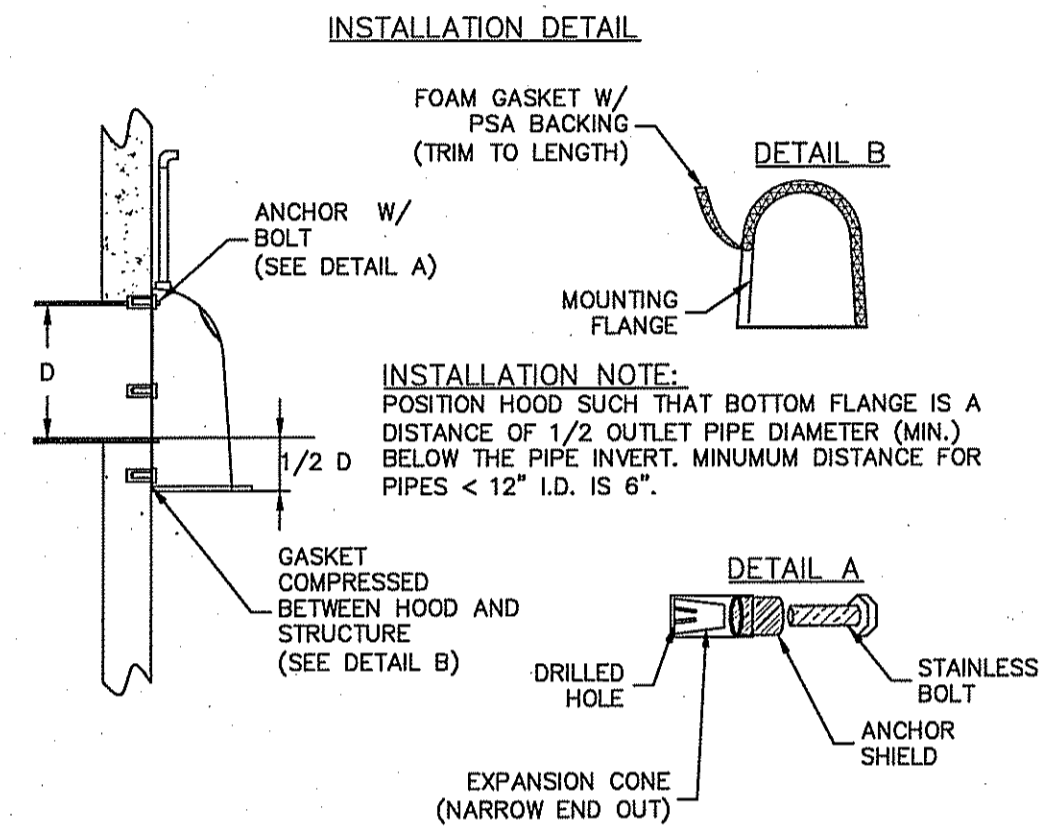
NOT TO SCALE



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 - STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE, THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4'-6" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 - 1"x1"x4'-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 - SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.
 - TO BE LOCATED AT ALL BASIN OUTFALLS.

BALED HAY EROSION CHECK AND SILT FENCE COMBINED

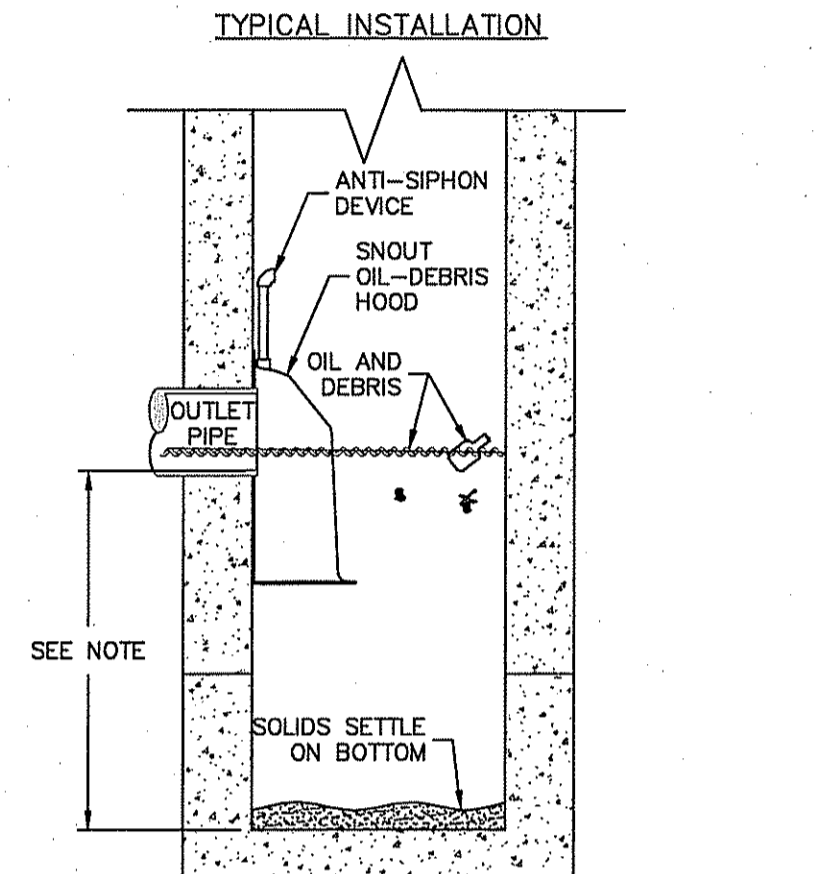
NOT TO SCALE



- NOTES:**
- ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC. 53 MT. ARCHER RD. LYME, CT 06371 (860) 434-0277, (860) 434-3195 FAX TOLL FREE: (800) 504-8008 OR (888) 354-7585 WEB SITE: www.bestmp.com OR PRE-APPROVED EQUAL.
 - ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
 - ALL HOODS SHALL BE EQUIPPED WITH A WATER TIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL).
 - THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.
 - THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
 - THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
 - THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
 - THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL).
 - INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT.

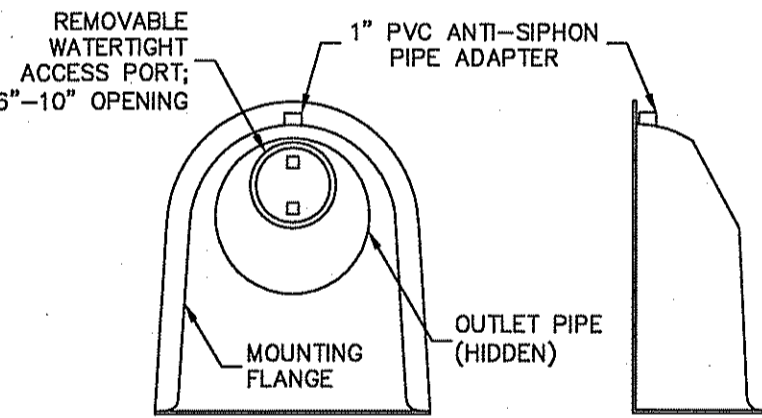
OIL SEPARATOR DETAIL

NOT TO SCALE



- NOTE:**
- SUMP DEPTH OF 36" MIN. FOR < OR = 12" DIAM. OUTLET. FOR OUTLETS > OR = 15", DEPTH = 2.5 - 3.0 X DIAMETER.
 - ALL EXISTING AND PROPOSED CATCH BASINS ARE TO UTILIZE HOODS.

CONFIGURATION DETAIL

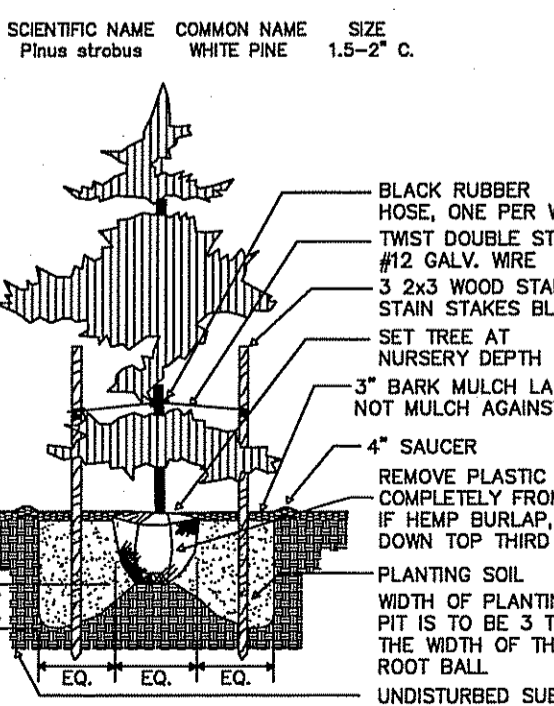


FRONT VIEW SIDE VIEW

SNOUT OIL-WATER-DEBRIS SEPARATOR

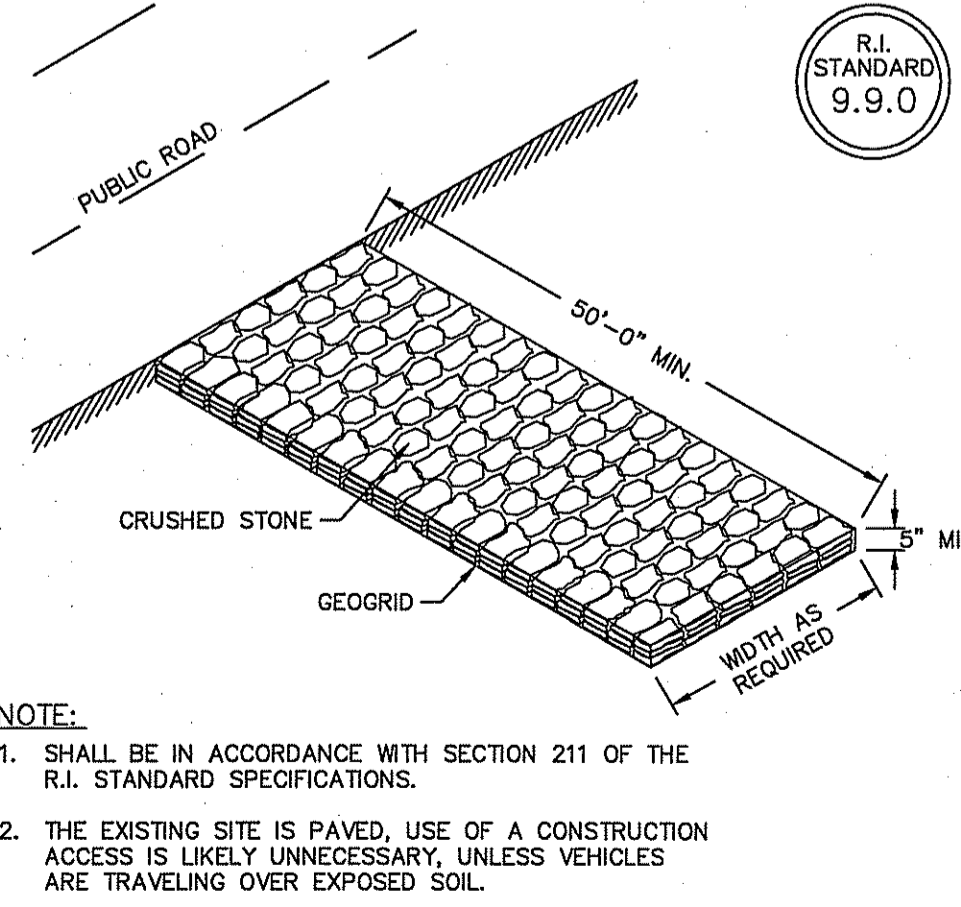
HOOD SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES

| DESCRIPTION | DATE | SCALE |
|---|----------------|---------------------|
| OIL- DEBRIS HOOD SPECIFICATION AND INSTALLATION (TYPICAL) | 09/08/00 | NONE |
| | DRAWING NUMBER | SP-SN |
| | | US Patent # 6126817 |



EVERGREEN TREE PLANTING

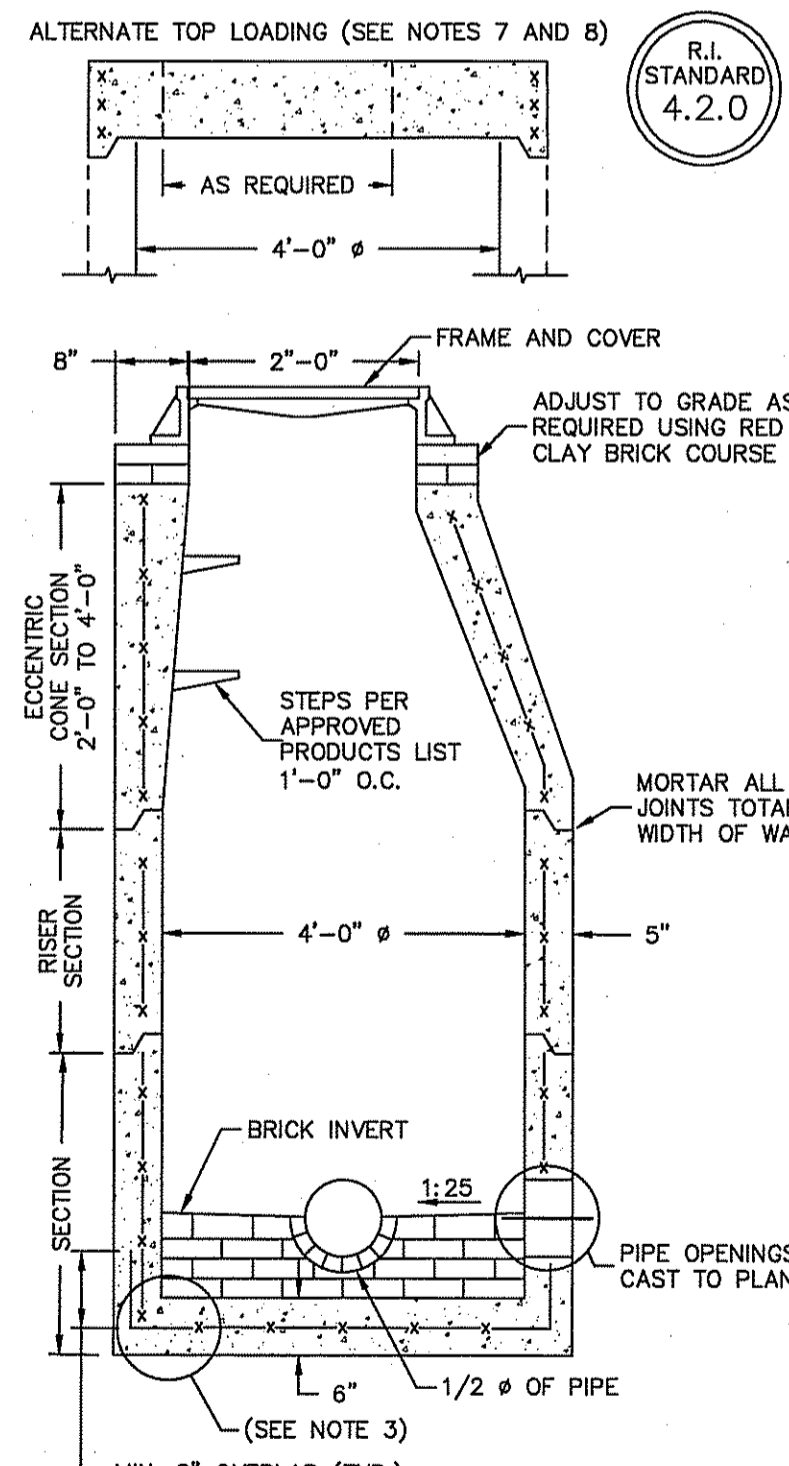
NOT TO SCALE



- NOTE:**
- SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.
 - THE EXISTING SITE IS PAVED, USE OF A CONSTRUCTION ACCESS IS LIKELY UNNECESSARY, UNLESS VEHICLES ARE TRAVELING OVER EXPOSED SOIL.

CONSTRUCTION ACCESS

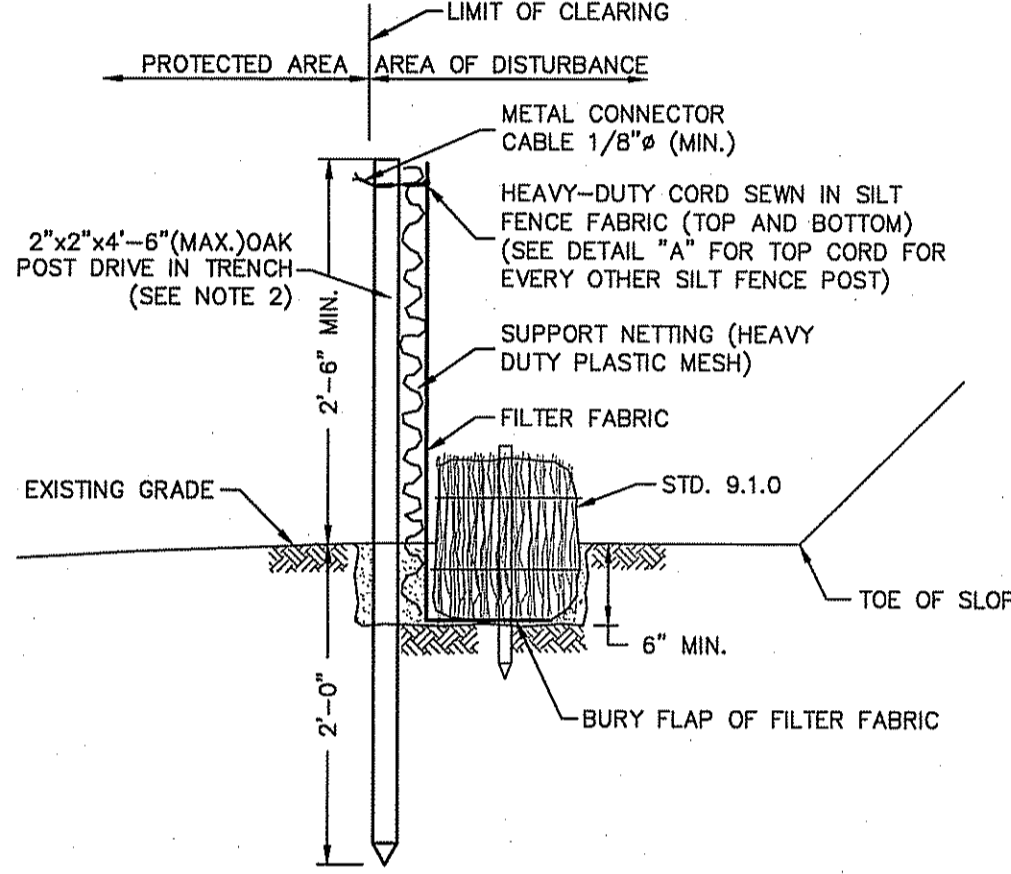
NOT TO SCALE



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN./LIN. FT. MINIMUM.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 - 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.
 - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 - ALTERNATE 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.

PRECAST 4'-0" ROUND MANHOLE

NOT TO SCALE



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 - STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE, THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4'-6" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 - 1"x1"x4'-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 - SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.
 - TO BE LOCATED AT ALL BASIN OUTFALLS.

BALED HAY EROSION CHECK AND SILT FENCE COMBINED

NOT TO SCALE

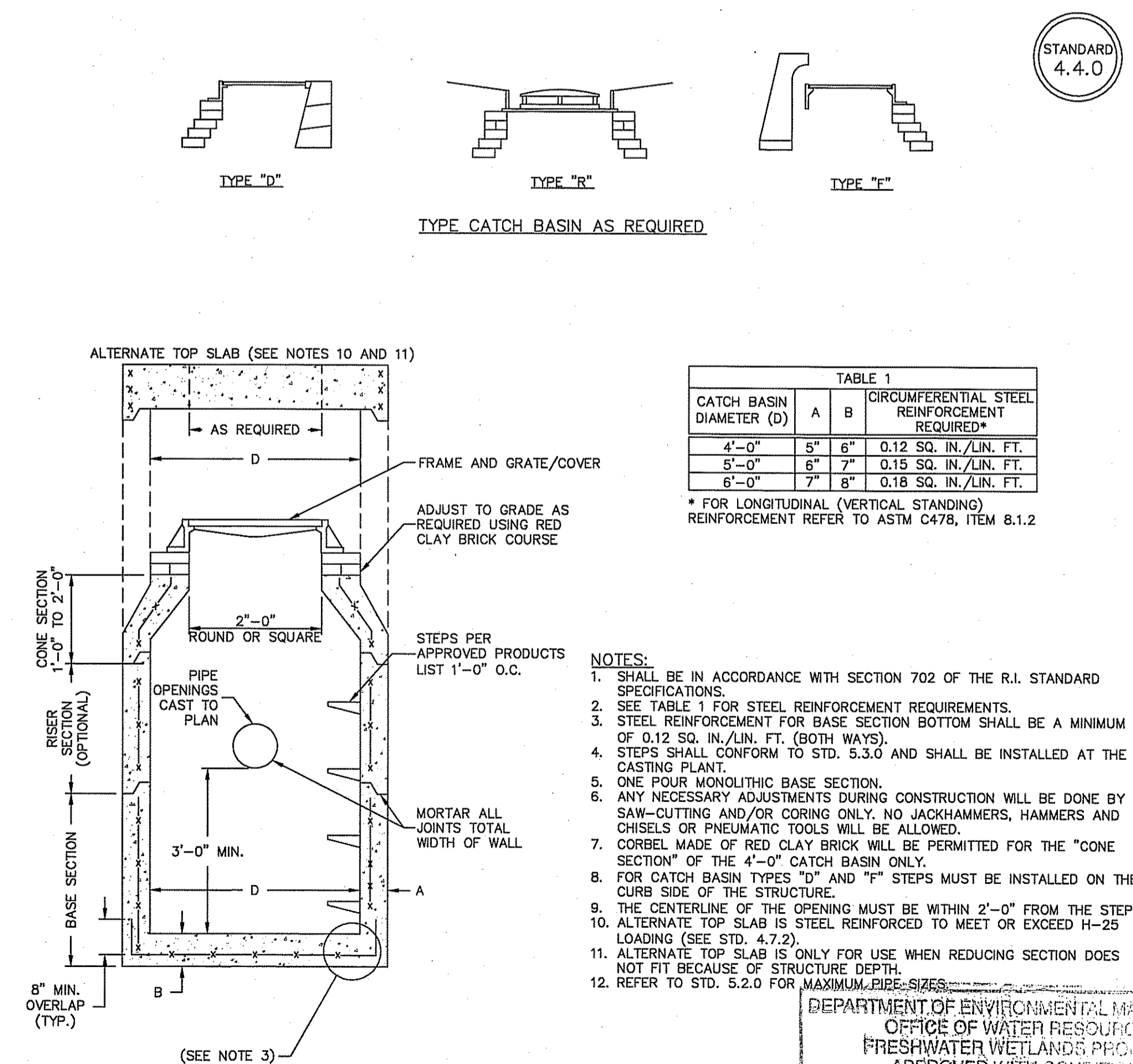


TABLE 1

| CATCH BASIN DIAMETER (D) | A | B | CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED* |
|--------------------------|----|----|---|
| 4'-0" | 5" | 6" | 0.12 SQ. IN./LIN. FT. |
| 5'-0" | 6" | 7" | 0.15 SQ. IN./LIN. FT. |
| 6'-0" | 7" | 8" | 0.18 SQ. IN./LIN. FT. |

* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. 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.
 - CORREL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
 - FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
 - THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
 - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 - ALTERNATE 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.

PRECAST ROUND CATCH BASIN

NOT TO SCALE

Diprete Engineering
Two Stafford Court, Cranston, RI 02920
Tel: 401-943-1000 Fax: 401-654-6006 www.Diprete-Eng.com

KEVIN C. MORIN
No. 1051
REGISTERED PROFESSIONAL ENGINEER
CIVIL

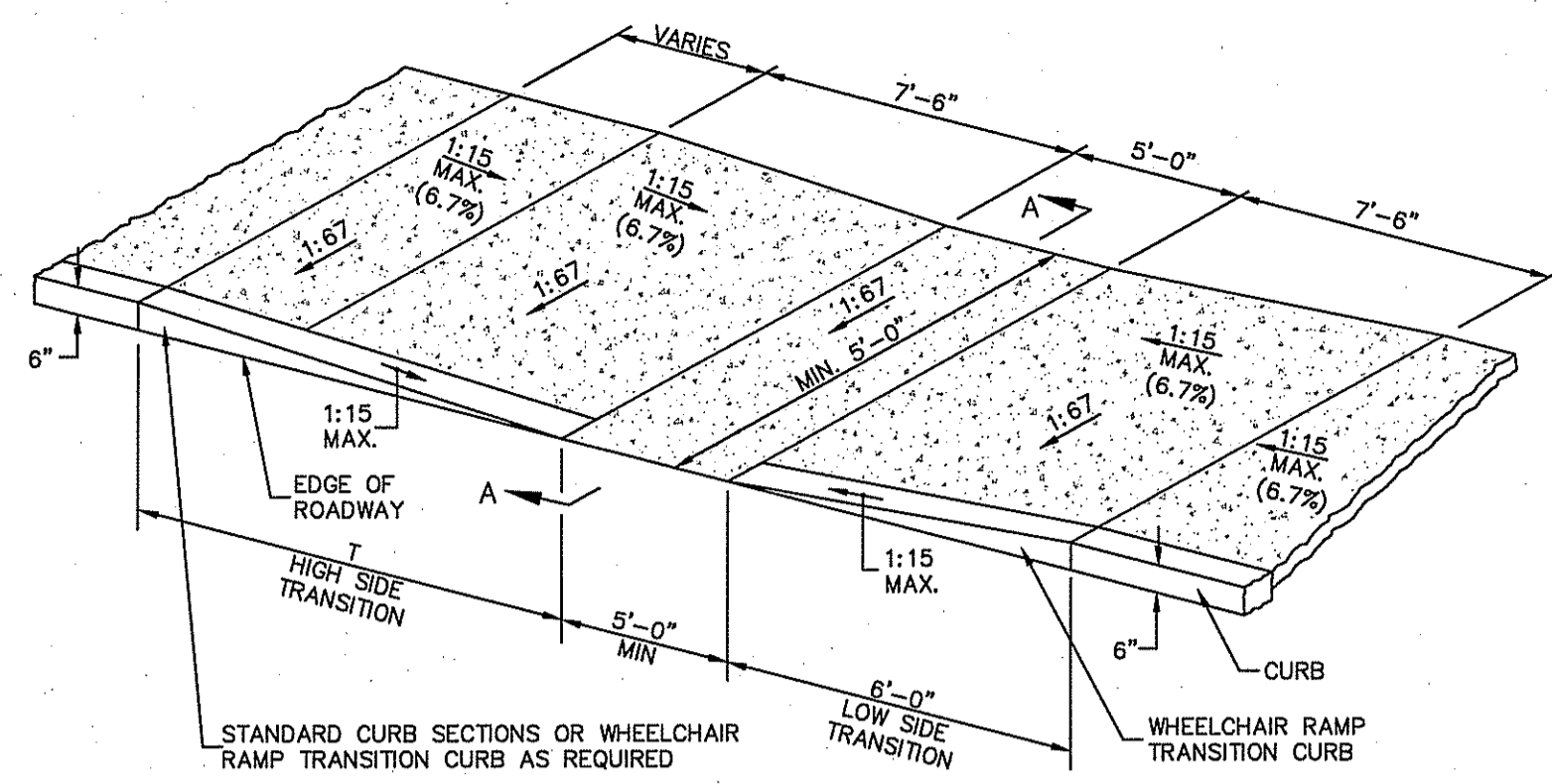
This regulatory submission set shall not be used for construction purposes unless stamped/issued for construction and signed by a Diprete Engineering representative.

The contractor is responsible for all of the means, methods, safety, precautions and requirements, and OSHA compliance in the implementation of this plan and design.

| No. | Date | Description | By |
|-----|----------|----------------------------------|-------------------|
| 0 | 12-29-23 | REVISION/Modification-Submission | Design By: B.A.H. |

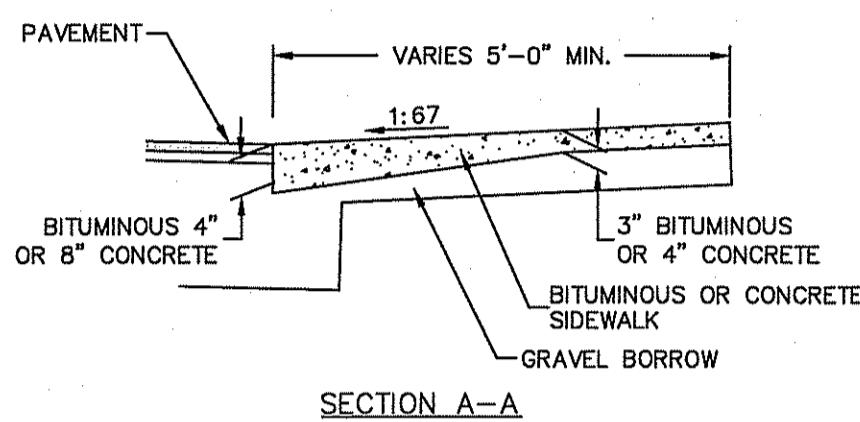
Johnston Towne Centre
2460 Industrial Avenue, Johnston, RI 02936
Tel: 401-943-1000

TC Johnston, LLC (c/o Jeff Salein)
1000 Main Street, Johnston, RI 02936
Tel: 401-943-1000



ISOMETRIC VIEW

| ROADWAY PROFILE GRADE | T (FT.) |
|-----------------------|---------|
| 0.00 | 7.5 |
| 0.01 | 9.0 |
| 0.02 | 11.0 |
| 0.03 | 13.5 |
| 0.04 | 19.0 |
| 0.05 | 30.0 |

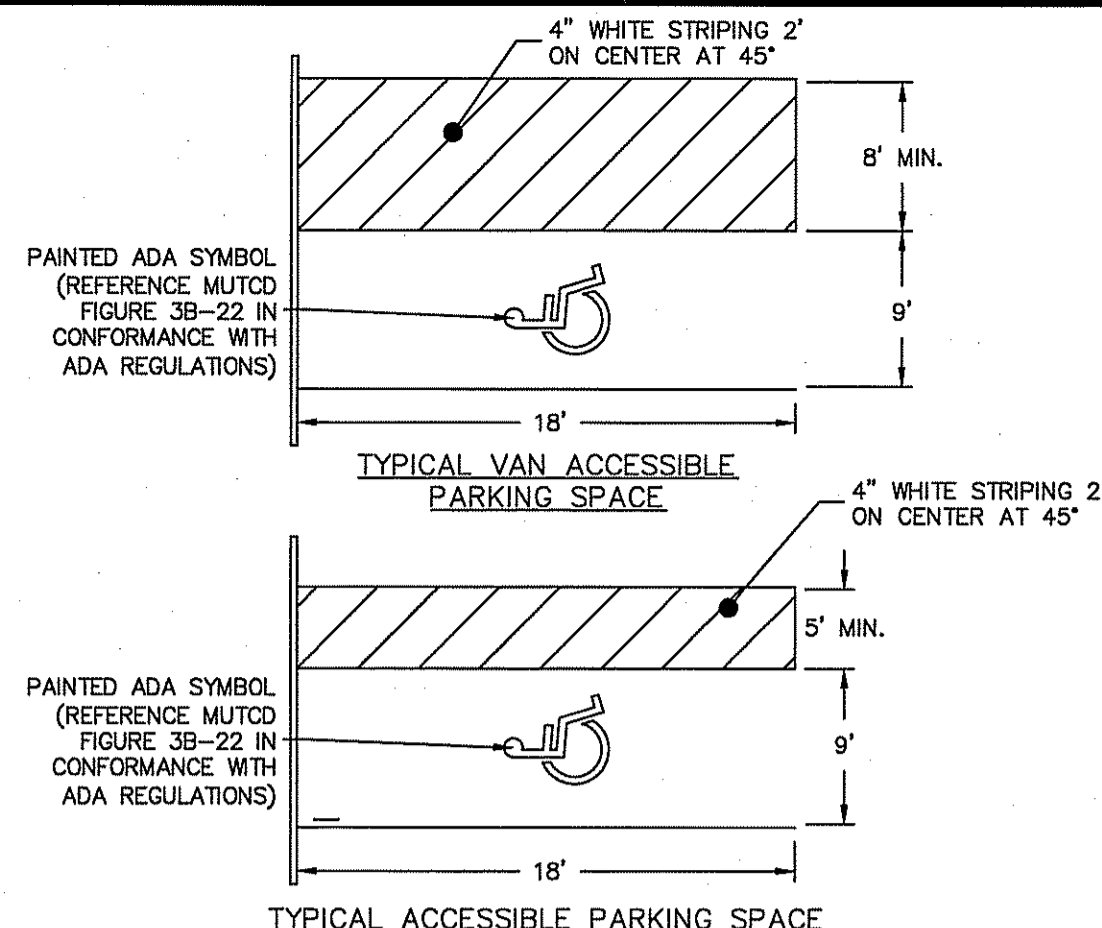


SECTION A-A

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
 - WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP WILL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
 - AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
 - DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMP.
 - LOCATION OF WHEELCHAIR RAMP IS AS SHOWN ON CONTRACT DRAWINGS.
 - IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
 - AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 5'-0" SHALL BE MAINTAINED.
 - THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT EXCEED 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
 - IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
 - THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
 - THE WHEELCHAIR RAMP SHALL BE CENTERED RADIIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
 - MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
 - ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
 - MEETS OR EXCEEDS GUIDELINES OF RIDOT STANDARD DETAIL 43.3.0.

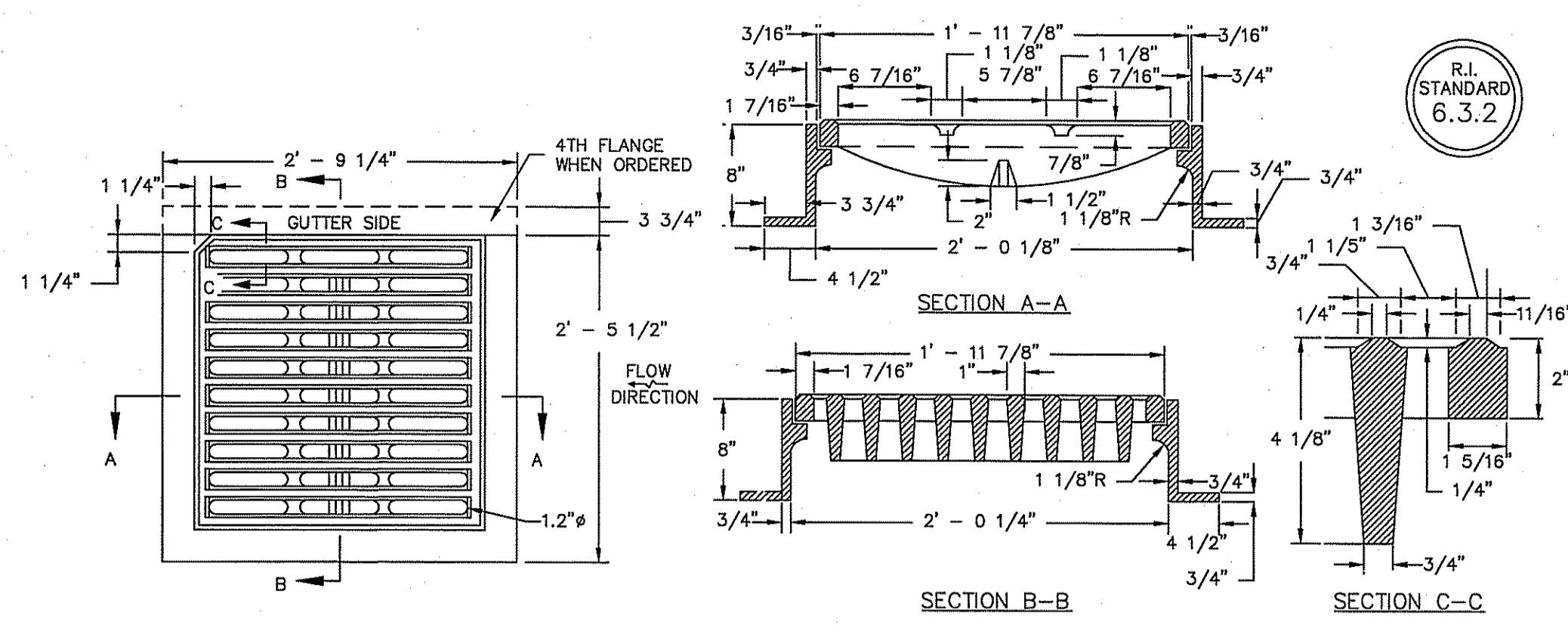
WHEELCHAIR RAMP (ADA)

NOT TO SCALE



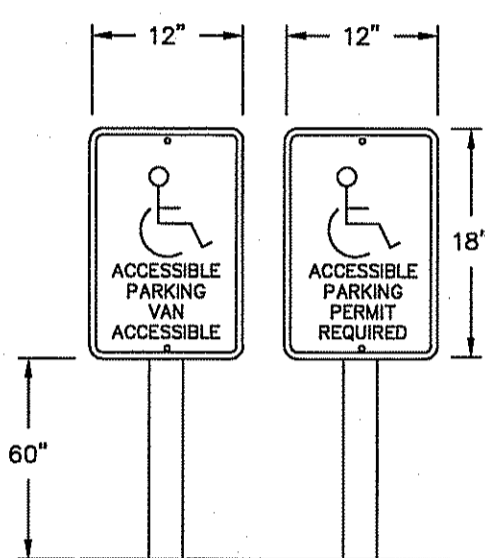
TYPICAL ACCESSIBLE PARKING SPACES

NOT TO SCALE



SQUARE FRAME AND GRATE (BICYCLE SAFE)

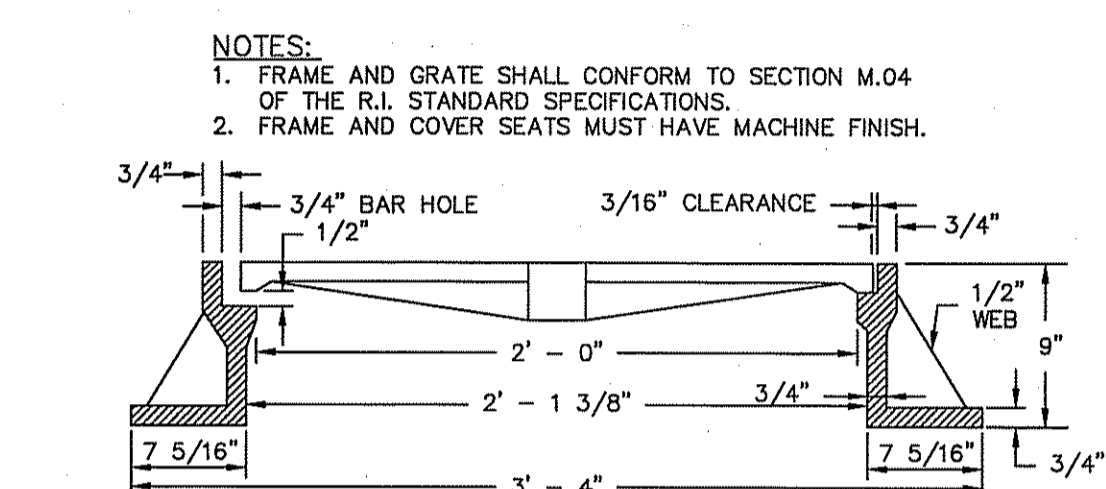
NOT TO SCALE



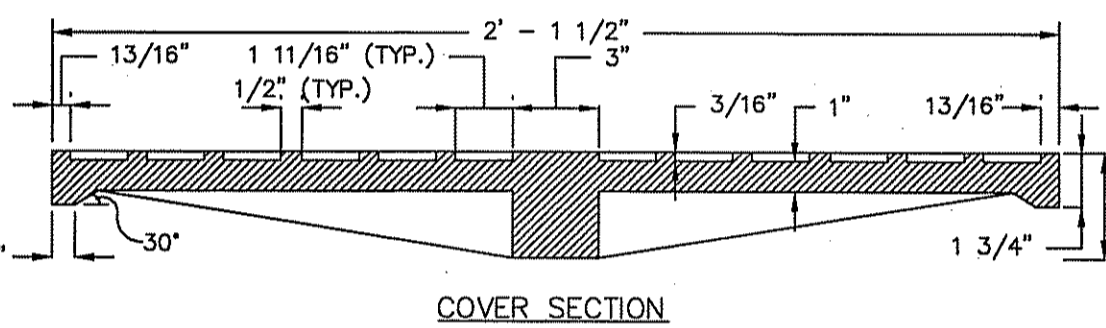
TYPICAL ACCESSIBLE PARKING POST & SIGN

NOT TO SCALE

- NOTES:**
- SIGN SHALL BE PLACED BEHIND APPLICABLE VAN ACCESSIBLE OR ACCESSIBLE SPACE AS SHOWN ON SIGNAGE PLAN.
 - ACCESSIBLE PARKING SPACES AND SIGNAGE SHALL COMPLY WITH ADA ACCESSIBILITY GUIDELINES (ADAAG) SECTION 4 BY THE U.S. DEPARTMENT OF JUSTICE OR THE R.I. BUILDING CODE, WHICHEVER STANDARD CONTROLS.



FRAME SECTION

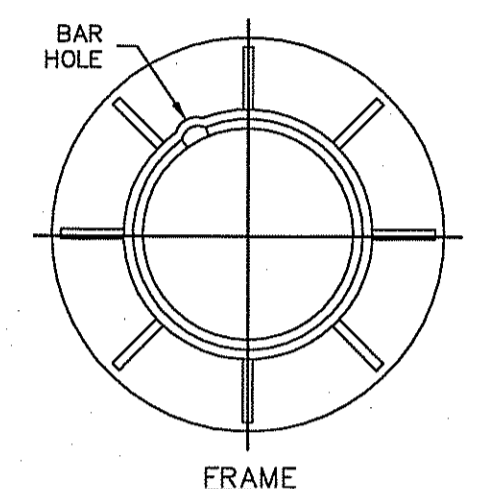


COVER SECTION

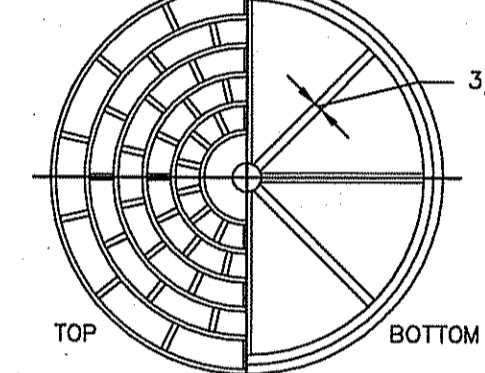
HEAVY-DUTY ROUND FRAME AND COVER

NOT TO SCALE

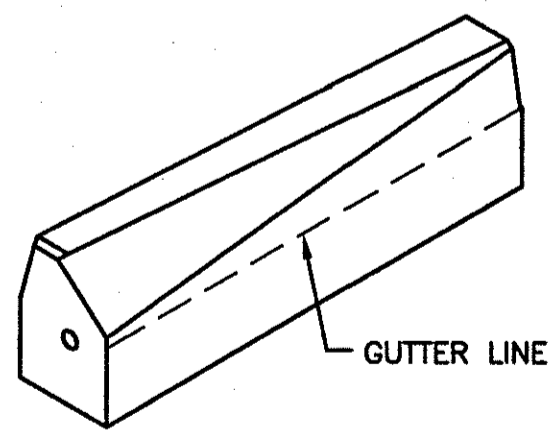
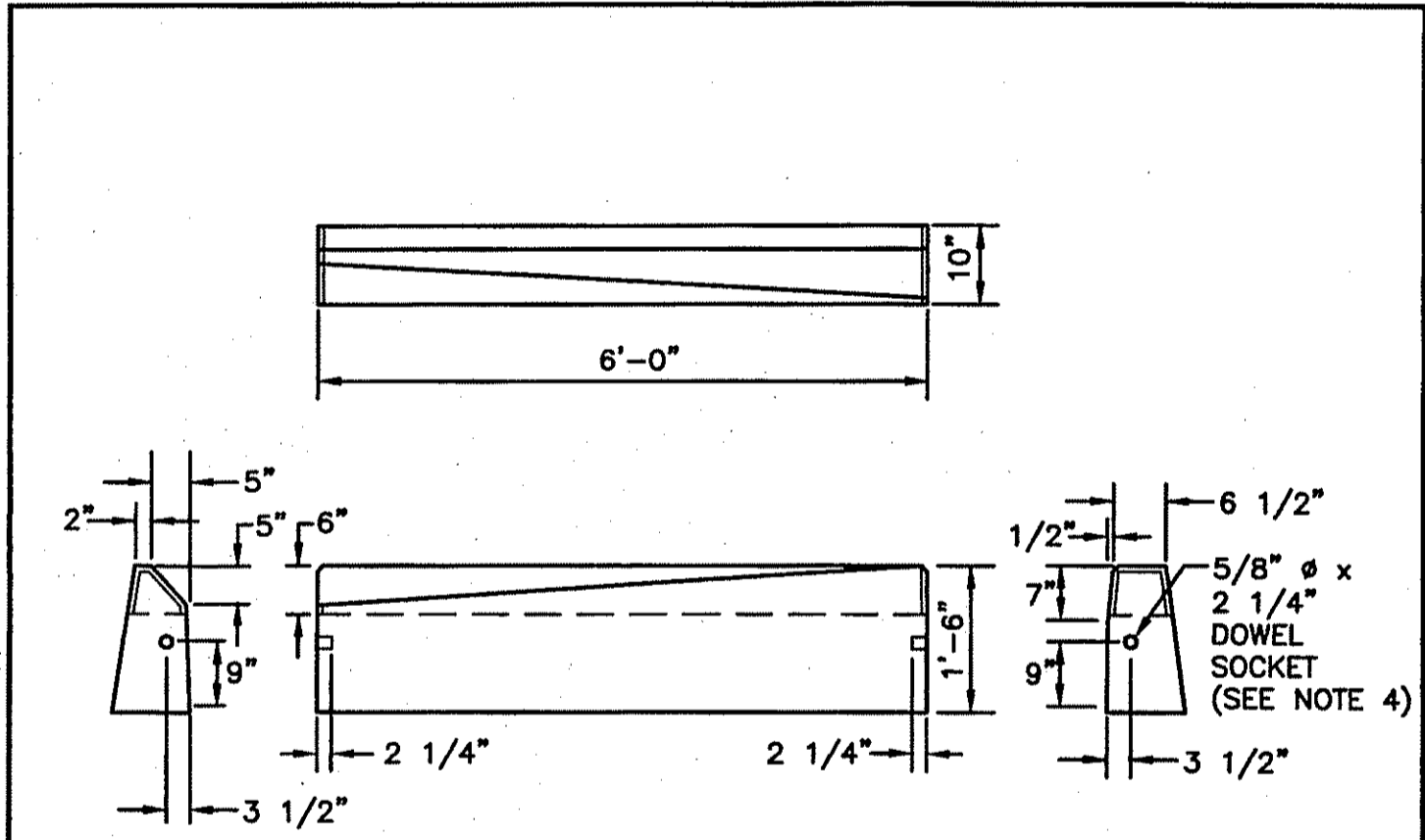
- NOTES:**
- FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
 - FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.



FRAME



COVER



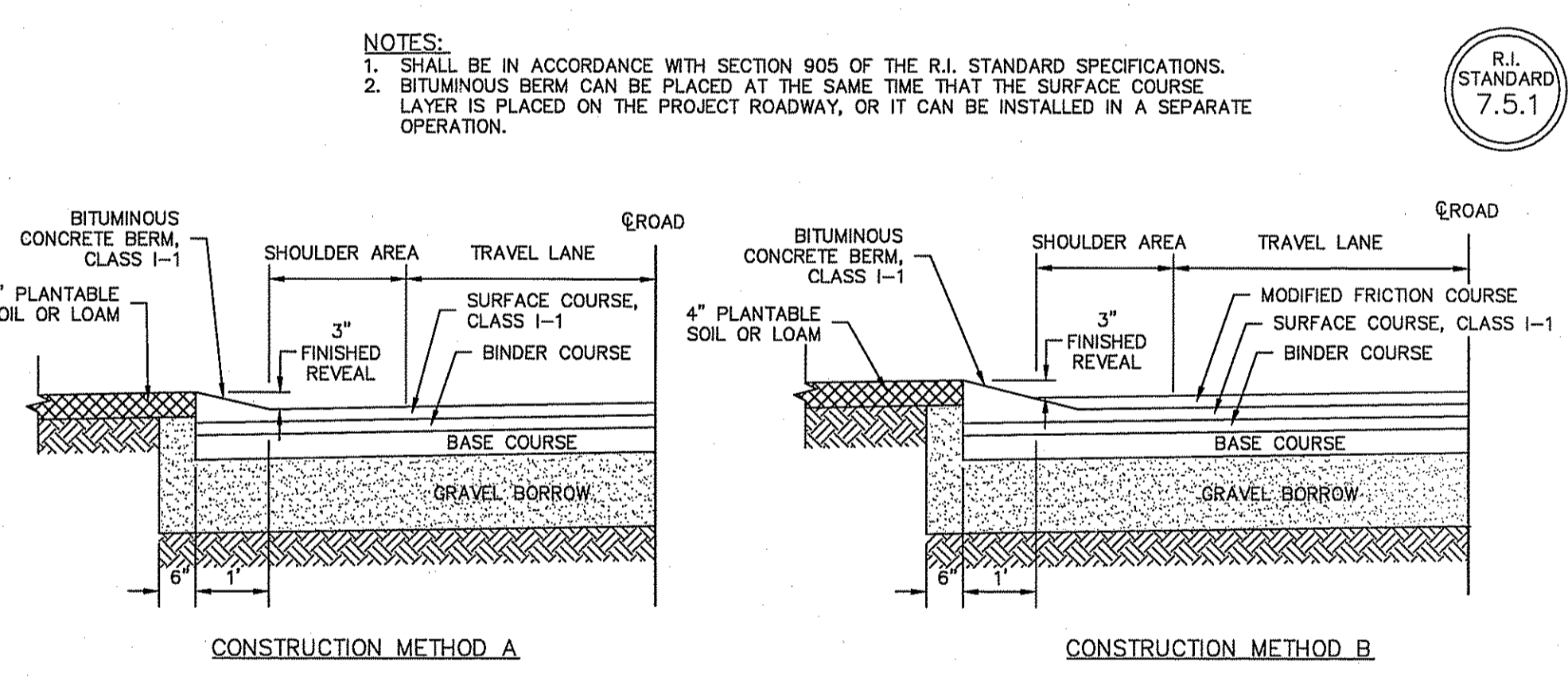
- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 - EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 - EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
 - DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION, FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" x 4" EPOXY COATED DOWEL.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)

R.I. STANDARD 7.2.2

JUNE 15, 1998

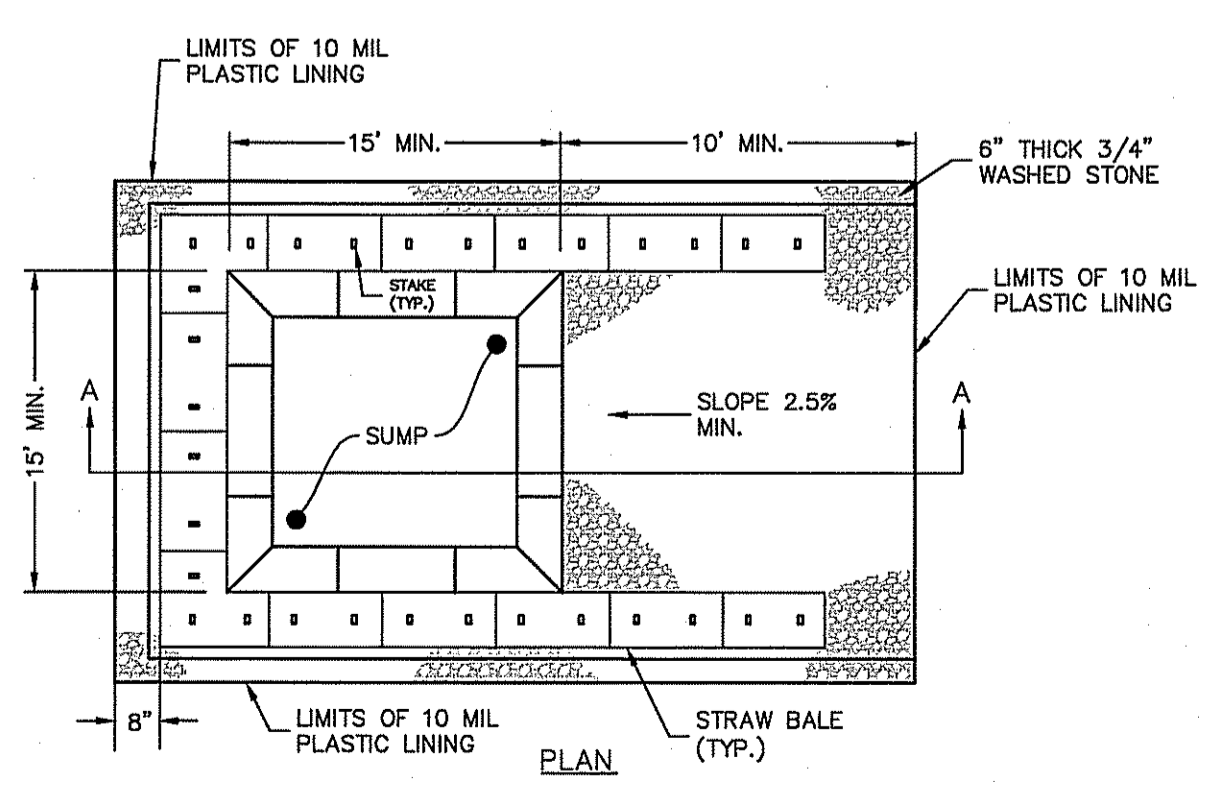


CONSTRUCTION METHOD A

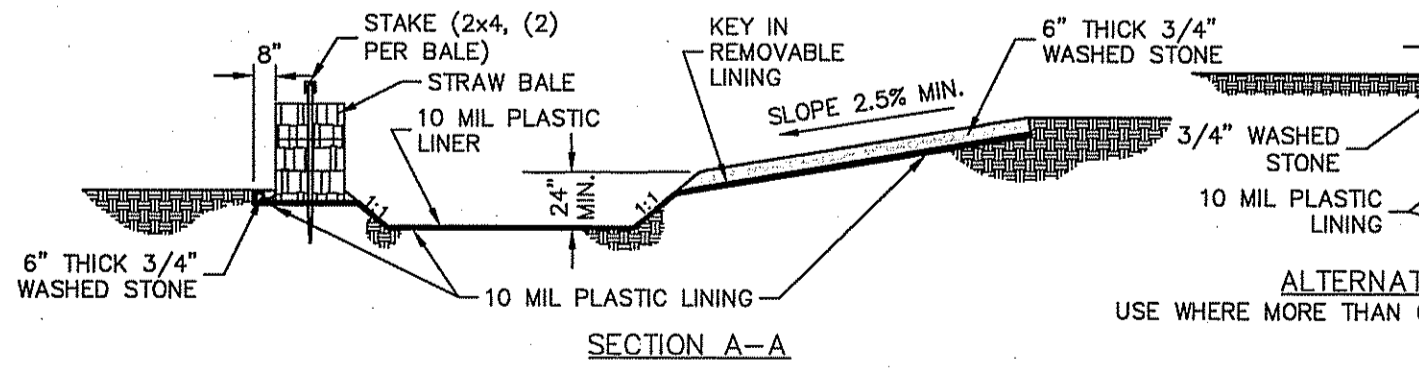
CONSTRUCTION METHOD B

BITUMINOUS BERM

NOT TO SCALE



PLAN

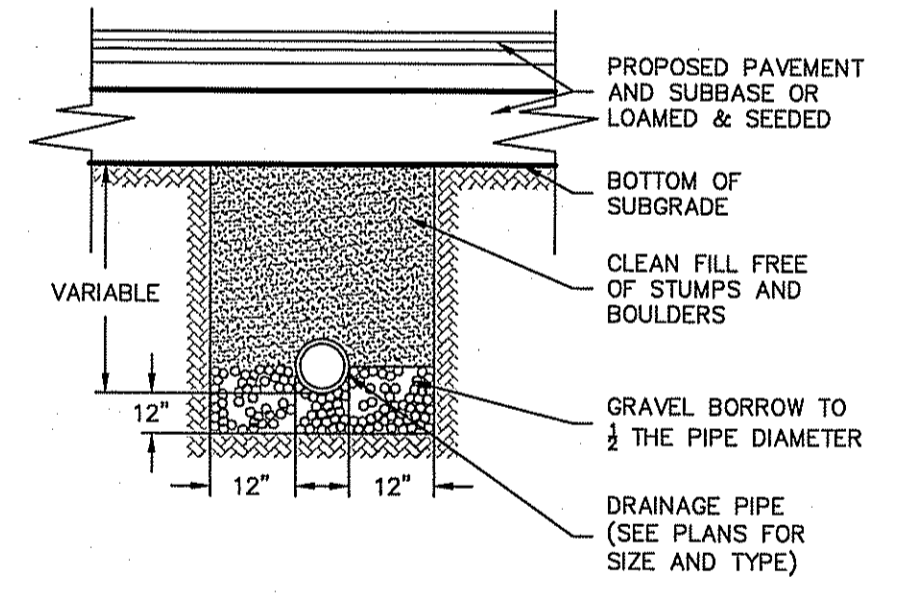


SECTION A-A

CONCRETE WASHOUT AREA

(NOT TO SCALE)

- NOTES:**
- PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
 - WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
 - FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
 - FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
 - SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
 - CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, & SURFACE WATERS.
 - MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.



DRAINAGE TRENCH DETAIL

NOT TO SCALE

- NOTES:**
- ALL PIPE TO BE RCP CLASS III UNLESS NOTED OTHERWISE

Diprete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.Diprete-Eng.com

Engineers • Planners • Surveyors

KEVIN C. MORIN

REGISTERED PROFESSIONAL ENGINEER CIVIL

DEC 20 2012

This regulatory submission set shall not be used for construction purposes unless stamped "Issued for Construction" and signed by a Diprete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA performance in the implementation of this plan and design.

| No. | Date | Description | By | Check |
|-----|------|-------------|----|-------|
| | | | | |

Drawn By: B.A.H. Design By: B.A.H.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF WATER RESOURCES

FRESHWATER WETLANDS PROJECT

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED JAN 14 2013 FILE # 09-0280

NO CHANGES ALLOWED WITHOUT PREVIOUS APPROVAL

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles R. Harter

Applicant: TC Johnson, LLC c/o Jeff Salatin
75 Sakonnet Crossroad, Suite 204
Warwick, Rhode Island 02886
tel 401-943-9900

Detail Sheet - 2

Johnston Towne Centre

Assessor's Plat 44/2, Lot 85

Assessor's Plat 44/2, Lot 85

75 Sakonnet Crossroad, Suite 204
Warwick, Rhode Island 02886
tel 401-943-9900

SEWER NOTES

- CONTRACTOR TO MAINTAIN 4 FT. MINIMUM COVER OVER SEWER MAIN THROUGHOUT SITE.
- VERTICAL DISTANCES BETWEEN DRAINAGE LINE TO SEWER LINE OR WATER LINE ARE TO BE 1 FT. MINIMUM.
- VERTICAL DISTANCES BETWEEN SEWER MAIN TO WATER MAIN IS TO BE 18 IN. MINIMUM. WHOES CROSS UNDER OR LESS THAN 18" ABOVE SEWER MAIN, SERVICE IS TO BE DOUBLE SLEEVED 10" ON BOTH SIDES DOUBLE SLEEVED 10" ON BOTH SIDES OF THE CROSSING. (SEE SEPARATION POLICY ABOVE)
- HORIZONTAL DISTANCE BETWEEN SEWER AND WATER IS TO BE NO LESS THAN 10' MINIMUM. (SEE SEPARATION POLICY ABOVE)
- THERE ARE NO KNOWN WELLS WITHIN 50 FT. OF THE PROPOSED SEWER SYSTEM.
- SEWER CONSTRUCTION TO CONFORM TO TOWN OF JOHNSTON SPECIFICATIONS FOR HIGHWAYS COVERING RESIDENTIAL AND INDUSTRIAL PLAT DEVELOPMENT.
- PROPOSED SEWER TO BE SDR 35 PVC UNLESS OTHERWISE NOTED.
- PIPE WHICH IS NOT CRADLED IN CONCRETE SHALL BE EMBEDDED IN WELL COMPACTED SAND OR GRAVEL WHICH SHALL BE PLACED TO A HEIGHT OF AT LEAST 6" ABOVE THE BARREL OF THE PIPE.
- LOCATION OF SEWERS SHALL BE DETERMINED BY THE ENGINEER BY SCALING FROM THE PLANS.
- VERTICAL DATUM IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)
- THE LOCATION OF ALL EXISTING UTILITIES ARE TO BE CONSIDERED APPROXIMATE ONLY AND ARE TO BE VERIFIED BY THE CONTRACTOR.
- PIPE SLOPES AS SHOWN (EX. S=0.005) MEANS THE DROP IN FEET PER LINEAR FOOT.
- ELEVATIONS SHOWN FOR SEWERS REFER TO THE FINISHED INVERT.
- SEWER SERVICE CONNECTIONS SHALL BE AT LEAST 6" IN DIAMETER, THEY SHALL BE BUILT WHERE DIRECTED BY THE ENGINEER, THEY SHALL BE CONNECTED TO THE COMMON SEWER BY A WYE BRANCH AND BEND.
- SERVICE CONNECTIONS ARE TO BE LAID WITH A SLOPE OF AT LEAST 1/4" PER FOOT, OPEN ENDS OF ALL SERVICE CONNECTION AND BRANCHES OR TEES ARE TO BE CLOSED WITH A STOPPER JOINTED IN PLACE. SERVICE CONNECTIONS SHALL CONNECT TO THE COMMON SEWER BY A CHIMNEY IF THE COMMON SEWER IS SUBSTANTIALLY DEEPER THAN THE NORMAL DEPTH OF THE SERVICE CONNECTIONS.

SEWER LINE / WATER MAIN SEPARATION POLICY FOR DESIGN OF SANITARY SEWERS

A. LATERAL PLACEMENT OF SEWERS AND WATER MAINS

SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED OUTSIDE EDGE-TO-OUTSIDE EDGE. THERE IS NO MINIMUM SEPARATION REQUIRED PROVIDED THE 10 FOOT HORIZONTAL SEPARATION IS MAINTAINED.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE DIVISION MAY ALLOW DEVIATION ON A CASE BY CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATER MAIN, PROVIDED THAT:

- THE SEWER AND WATER MAIN ARE LAID IN SEPARATE TRENCHES, OR
- THE SEWER AND WATER MAIN MAY BE INSTALLED IN THE SAME TRENCH WITH THE WATER MAIN PLACED ON A BENCH OF UNDISTURBED EARTH, AND
- IN EITHER CASE, THE CROWN OF THE SEWER SHALL BE AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN.

IN SITUATIONS WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, THE FOLLOWING PROTECTION SHALL BE PROVIDED:

- ENCASEMENT OF THE SEWER PIPE IN CONCRETE (MIN. 6 INCH. THICKNESS) OR A CARRIER PIPE FOR AT LEAST 10 FEET EITHER SIDE OF THE AREA NOT COMPLYING WITH THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION, OR
- DESIGN AND CONSTRUCTION OF THE SEWER EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON OR OTHER AWWA-APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE), AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS.

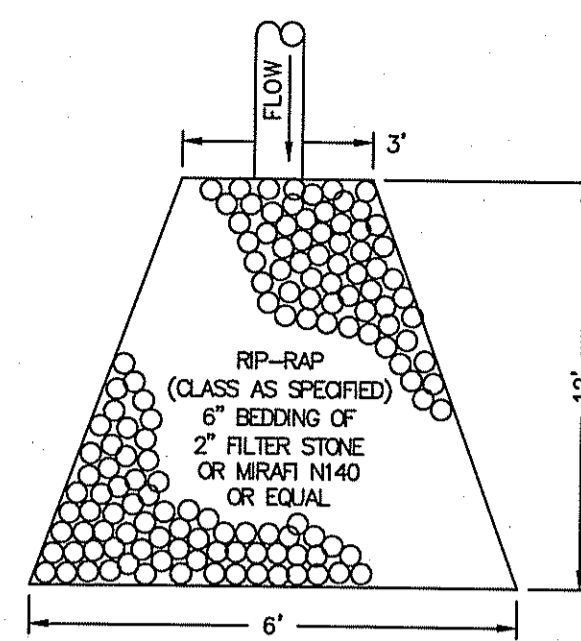
B. SEWERS CROSSING WATER MAINS

SEWERS CROSSING OVER WATER MAINS SHOULD BE AVOIDED, BUT IF CONDITIONS WARRANT THIS SITUATION, THEN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE. SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.

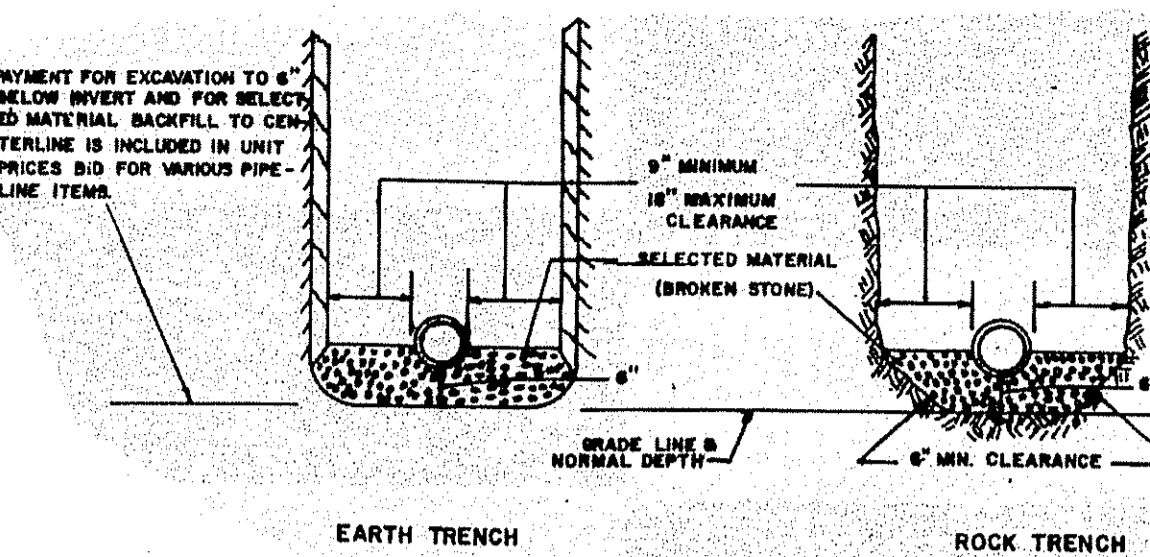
WHERE CONDITIONS PREVENT AN 18 INCH VERTICAL SEPARATION FROM BEING MAINTAINED, THE FOLLOWING METHODS SHALL BE SPECIFIED:

- THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON PIPE, PVC OR OTHER AWWA APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE) FOR A DISTANCE OF 12 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS, OR
- EITHER THE WATER MAIN OR THE SEWER MAY BE ENCASED IN CONCRETE (MIN. 6 INCH THICKNESS) OR A CARRIER PIPE FOR A DISTANCE OF 12 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE DESIGNED AND CONSTRUCTED OF MATERIALS WHICH ARE SATISFACTORY TO THE DIVISION, OR
- ANY OTHER METHODS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER, WHICH ENSURE ADEQUATE WATER TIGHTNESS AND ARE SATISFACTORY TO THE DIVISION.

| OUTLET | LENGTH | WIDTH | CLASS |
|------------------------------|--------|-------|-------|
| LOW PRESSURE DRAINAGE OUTLET | 15' | 6" | R-2 |
| FES #6 | 19' | 11" | R-2 |

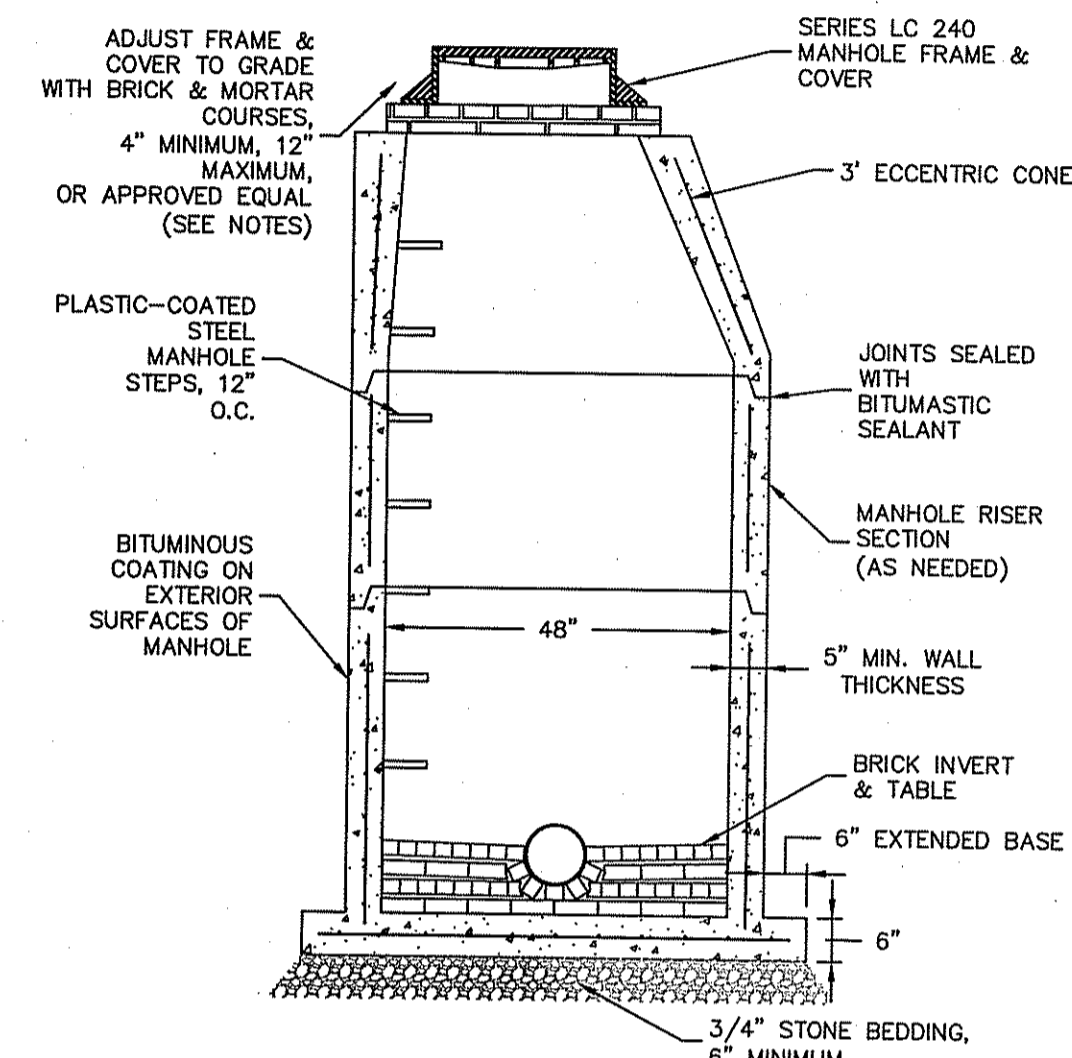


RIP-RAP APRON DETAIL
NOT TO SCALE

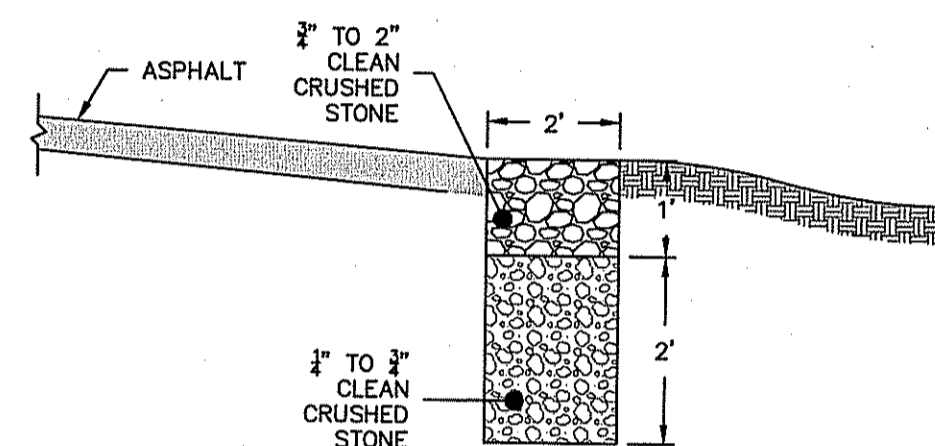


SEWER TRENCH DETAIL
NOT TO SCALE

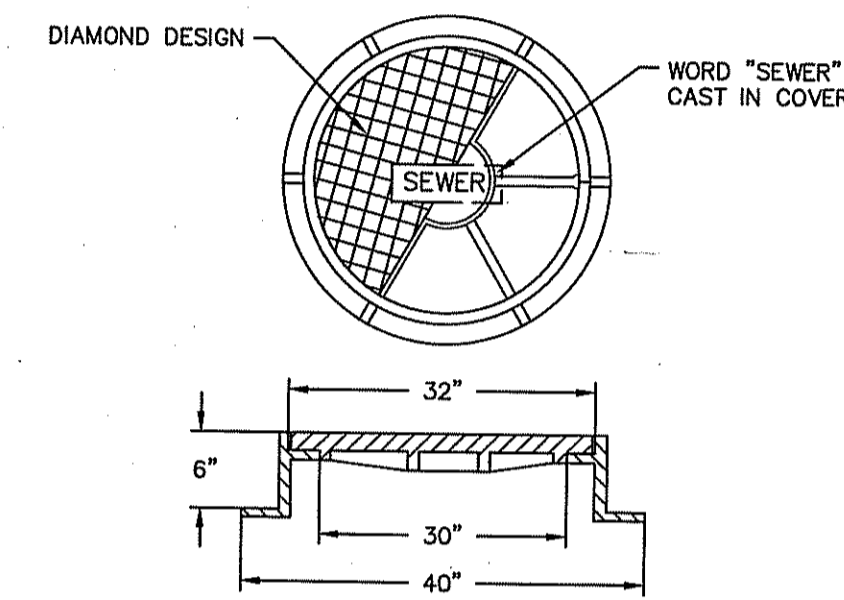
- NOTES:**
- MANHOLE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM-C478.
 - INVERT & TABLE SHALL CONSIST ENTIRELY OF BRICK AND MORTAR. NO SAND FILLER SHALL BE ALLOWED.
 - MANHOLES SHALL BE VACUUM TESTED PRIOR TO ACCEPTANCE, IN ACCORDANCE WITH THE SEWER AUTHORITY SANITARY RULES AND REGULATIONS. UNDER NO CIRCUMSTANCES WILL EXFILTRATION TESTING BE ACCEPTED.
 - BOLTED & GASKETED COVERS SHALL BE USED ON MANHOLES IN OFF-ROAD AREAS.
 - TAPPING OF MANHOLES MUST BE AUTHORIZED AND INSPECTED BY THE SEWER AUTHORITY. THE ONLY APPROVED METHOD FOR TAPPING MANHOLES SHALL BE BY CORE-DRILLING THE MANHOLE AND INSTALLING A "KOR-N-SEAL" BOOT.
 - PRECAST CONCRETE GRADE RINGS, HDPE GRADE RINGS, OR OTHER RIM ADJUSTMENT PRODUCTS MAY BE USED IN LIEU OF THE MORTAR WITH THE PERMISSION OF THE SEWER AUTHORITY.



SEWER MANHOLE
NOT TO SCALE



PEA STONE DIAPHRAGM
NOT TO SCALE



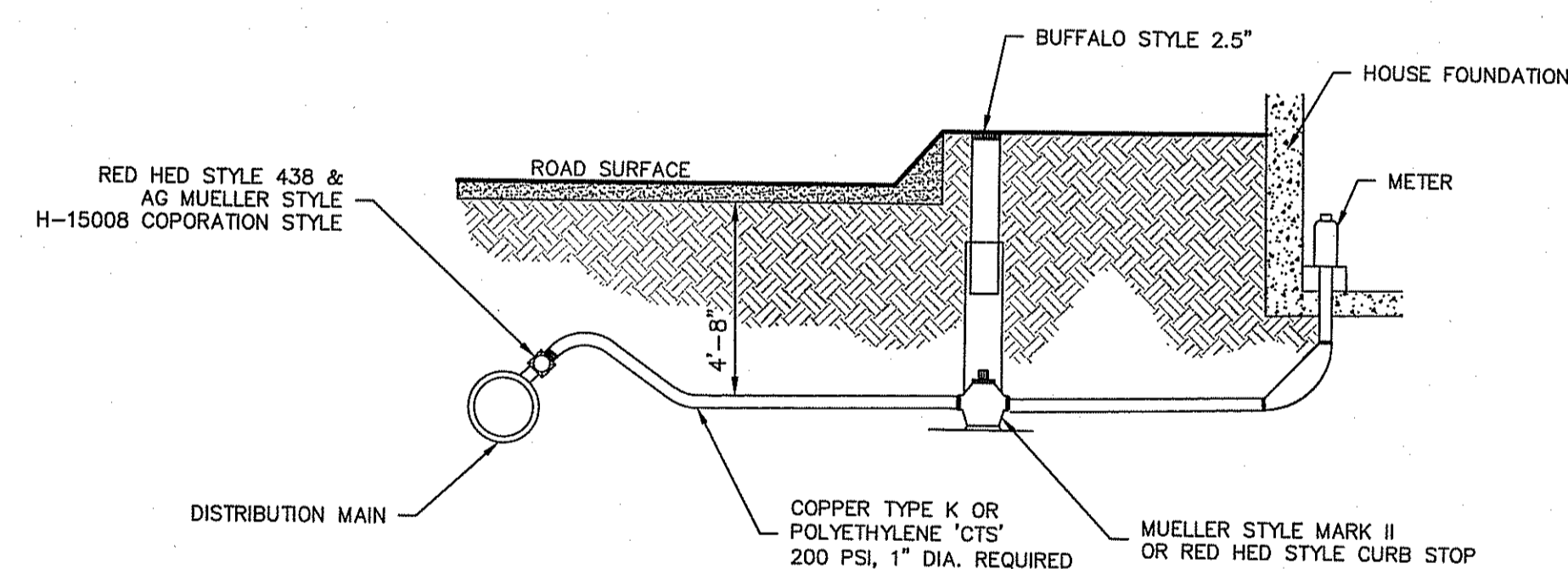
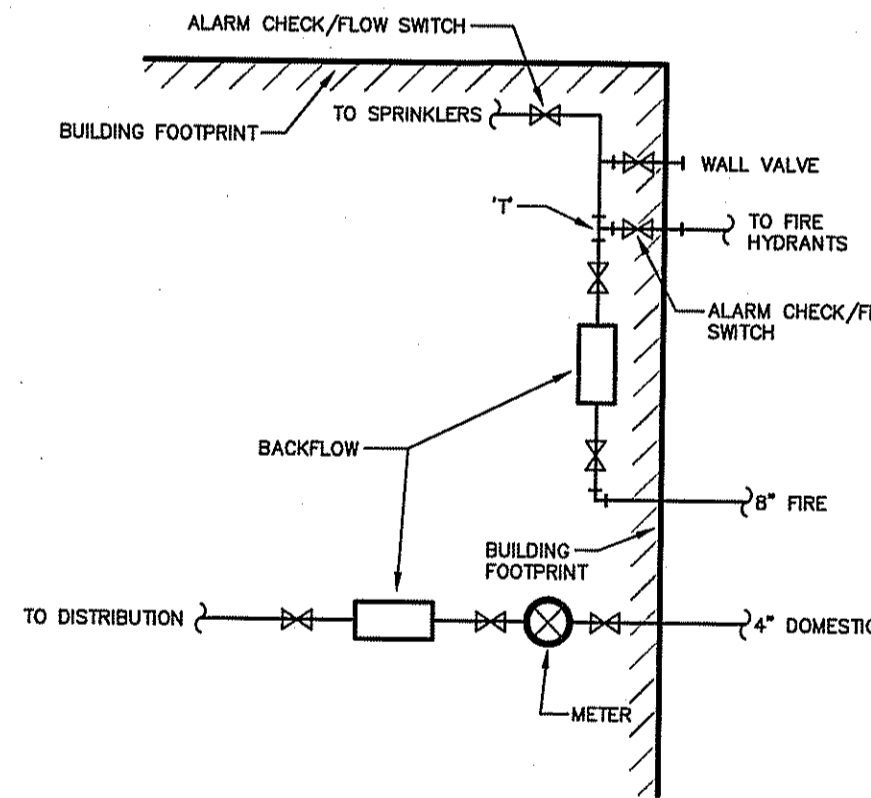
WATER-TIGHT SEWER MANHOLE FRAME AND COVER DETAIL
NOT TO SCALE

WATER INSTALLATION NOTES

- INSTALLATION OF WATER MAIN SHALL CONFORM TO THE PROVIDENCE WATER SUPPLY BOARD AND IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION INSTALLATION MANUAL.
- DISTRIBUTION PIPING SHALL BE CL 52 DUCTILE IRON, DOUBLE CEMENT LINED, WITH PUSH ON JOINTS. PIPE SHALL MEET ANSI/AWWA C151 A21.51. JOINTS SHALL MEET ANSI/AWWA/C111/A21.11.
- FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT CL350 CEMENT MORTAR LINED AND MEET AWWA/C153/A21.53. MECHANICAL JOINTS SHALL MEET ANSI/AWWA/C111/A21.11 AMERICAN MANUFACTURER ONLY.
- VALVES UP TO 12" DIAMETER SHALL BE MECHANICAL JOINT, RESILIENT SEATED STYLE AND OPEN RIGHT.
- PRESSURE TEST OF THE WATER SYSTEM SHALL BE 1.5 TIMES THE MAXIMUM WORKING PRESSURE OR 250 PSI. PROVIDENCE WATER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF SCHEDULED TEST.
- CHLORINATION OF SYSTEM AND SAMPLING SHALL CONFORM TO PROVIDENCE WATER STANDARDS.
- PRIOR TO CONNECTION TO THE PROVIDENCE WATER SYSTEM, ALL SERVICES SHALL BE PRESSURE TESTED AND CHLORINATED WITH A REPORT OF FINDINGS SUBMITTED TO PROVIDENCE WATER.
- METERS TO BE PROVIDED BY PROVIDENCE WATER.
- NOTIFY ENGINEER PRIOR TO COVERING OF WATER MAIN TO SURVEY AS-BUILT LOCATION AND TO COMPLETE REQUIRED AS-BUILT PLAN. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE CONTRACTOR.

SCHEMATIC WATER SERVICE DETAIL

NOT TO SCALE

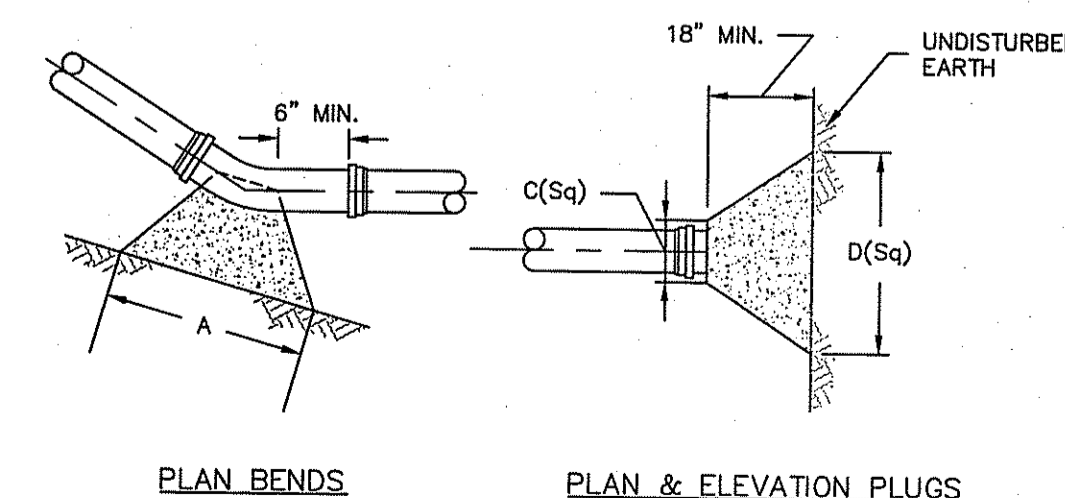


WATER SERVICE INSTALLATION (TYPICAL)

NOT TO SCALE

- NOTES:**
- ALL CONCRETE SHALL BE 4000 P.S.I. @ 28 DAYS
 - CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH
 - FORMS TO BE USED AS NECESSARY
 - ALL BOLTS AND NUTS TO BE PROTECTED FROM CONCRETE AND EASILY ACCESSIBLE WHEN THRUST BLOCK INSTALLED
 - REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF RHODE ISLAND SHALL VERIFY CALCULATIONS DURING DESIGN TO MEET CONDITIONS OF PROJECT.

| SIZE | TEES | | | | 90° BEND | | | | 45° BEND | | | | 22.5° BEND | | | | 11.25° BEND | | | |
|------|------|-----|-----|-----|----------|-----|-----|-----|----------|-----|-----|-----|------------|-----|-----|-----|-------------|-----|-----|--|
| | A | B | C | D | A | B | A | B | A | B | A | B | A | B | A | B | A | B | | |
| 6" | 20" | 10" | 10" | 21" | 24" | 12" | 18" | 9" | 13" | 7" | 9" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | |
| 8" | 26" | 13" | 12" | 26" | 32" | 16" | 24" | 12" | 17" | 9" | 12" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | |
| 10" | 34" | 17" | 14" | 34" | 40" | 20" | 30" | 15" | 22" | 11" | 15" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | |
| 12" | 41" | 20" | 16" | 41" | 48" | 24" | 35" | 18" | 25" | 13" | 18" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | |
| 16" | 54" | 27" | 20" | 54" | 64" | 32" | 47" | 23" | 34" | 17" | 24" | 12" | 12" | 12" | 12" | 12" | 12" | 12" | 12" | |



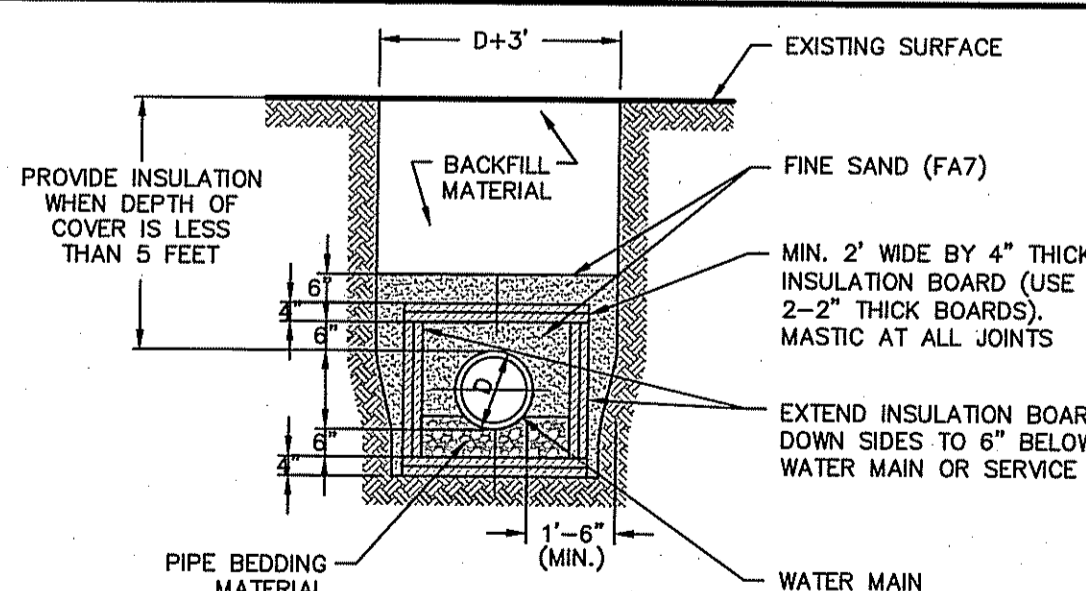
THRUST BLOCK

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER DIVISION
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE DRAWING
DATED 1 JAN 17 2013
NO CHANGES ALLOWED WITHOUT THE WRITTEN CONSENT OF THE DIVISION
Charles H. [Signature]

BENDS & TEES SECTIONS

NOT TO SCALE



WATER MAIN TRENCH INSULATION DETAIL

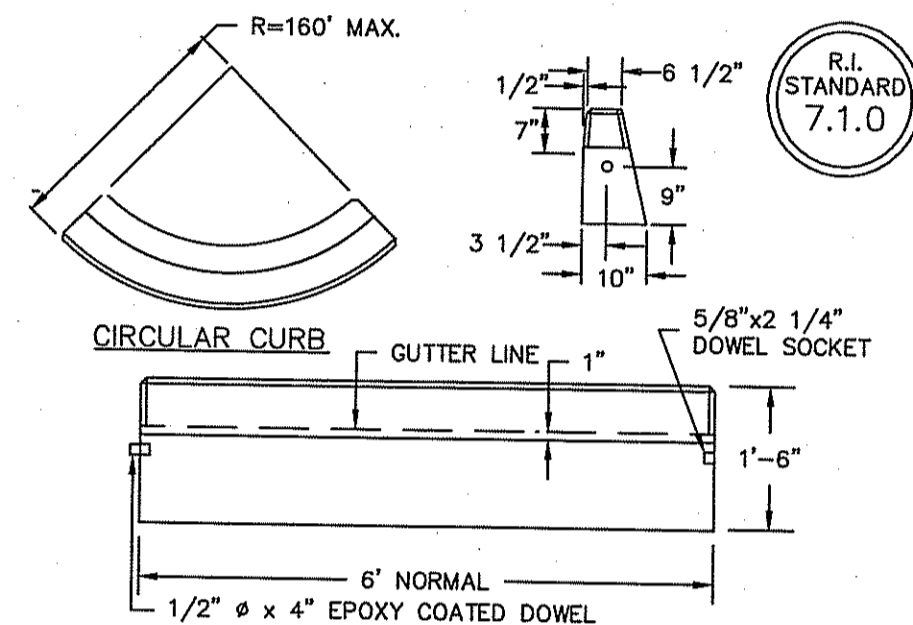
NOT TO SCALE

- NOTES:**
- INSULATION BOARD TO BE CLOSED CELL, EXTRUDED POLYSTYRENE FOAM MEETING ASTM 578, TYPE VI, 40 PSI COMPRESSING STRENGTH (ASTM D1621) 0.1% MAX. WATER ABSORPTION (ASTM C272).
 - BACKFILL MATERIAL AROUND INSULATION MUST BE FINE SAND FREE FROM ROOTS, ORGANIC MATTER, OR OTHER INJURIOUS MATERIALS.
 - OVERLAP ALL INSULATION BOARD JOINTS.
 - WHERE POSSIBLE THE DOMESTIC WATER SERVICE AND FIRE WATER SERVICE SHOULD BE CONSTRUCTED IN THE SAME TRENCH.

| SIGN NUMBER | R1-1 |
|----------------|---|
| LEGEND | |
| COLOR | BACKGROUND: RED, COPY: WHITE |
| SIGN DIMENSION | WIDTH: 24", 30", 36", 48", HEIGHT: 24", 30", 36", 48" |
| SIGN NUMBER | "R5-1" |
| LEGEND | |
| COLOR | BACKGROUND: RED, COPY: WHITE |
| SIGN DIMENSION | WIDTH: 30", 36", 48", HEIGHT: 30", 36", 48" |
| SIGN NUMBER | "R6-1 (R OR L)" |
| LEGEND | |
| COLOR | BACKGROUND: BLACK-ARROW WHITE, COPY: BLACK |
| SIGN DIMENSION | WIDTH: 36", HEIGHT: 12" |

REGULATORY SIGNS

NOT TO SCALE



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 - MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
 - EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 - CIRCULAR CURB IS REQUIRED ON CURVES WITH RADIUS OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
 - EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

PRECAST CONCRETE CURB

NOT TO SCALE

KEVIN C. MORIN
REGISTERED PROFESSIONAL ENGINEER
CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements of the work to be performed in the implementation of this plan and design.

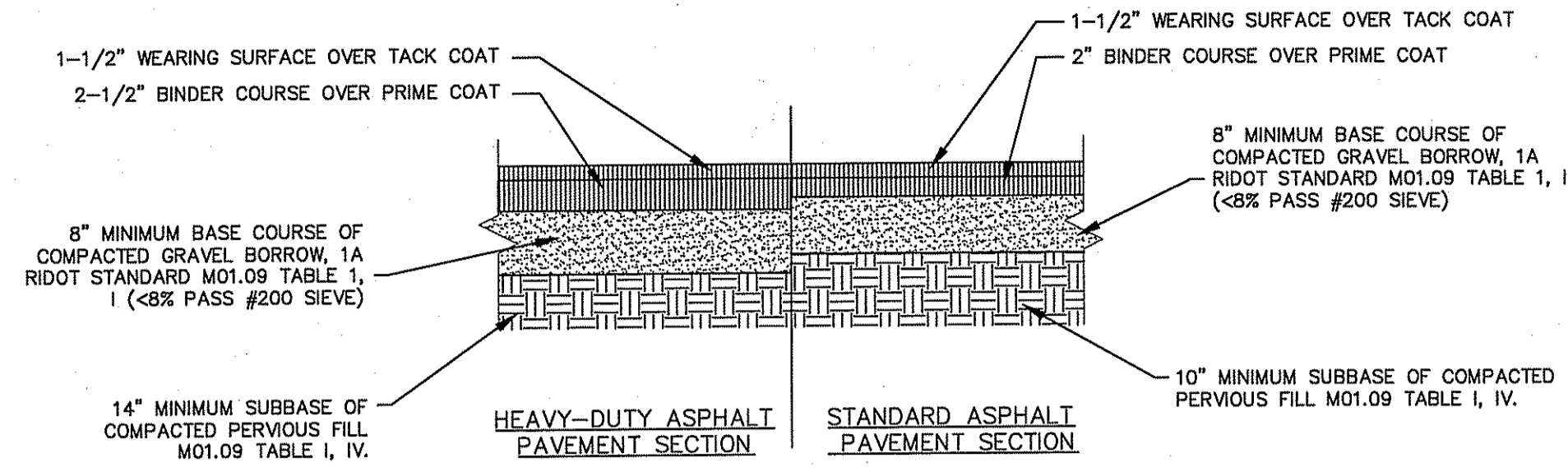
| No. | Date | Description | By: | Design By: |
|-----|----------|---|--------|------------|
| 0 | 12-29-12 | REGULATORY PERMIT MODIFICATION SUBMISSION | B.A.H. | B.A.H. |

Detail Sheet - 3
Johnston Towne Centre
1401 Hartford Avenue, Johnston RI 02891
Tel: 401-943-3100 Fax: 401-943-3100

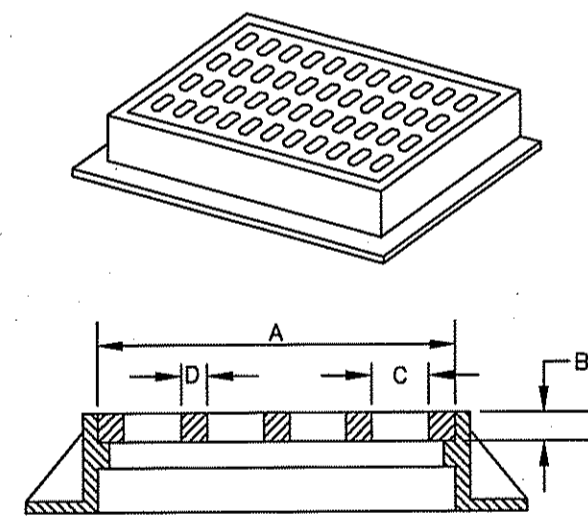
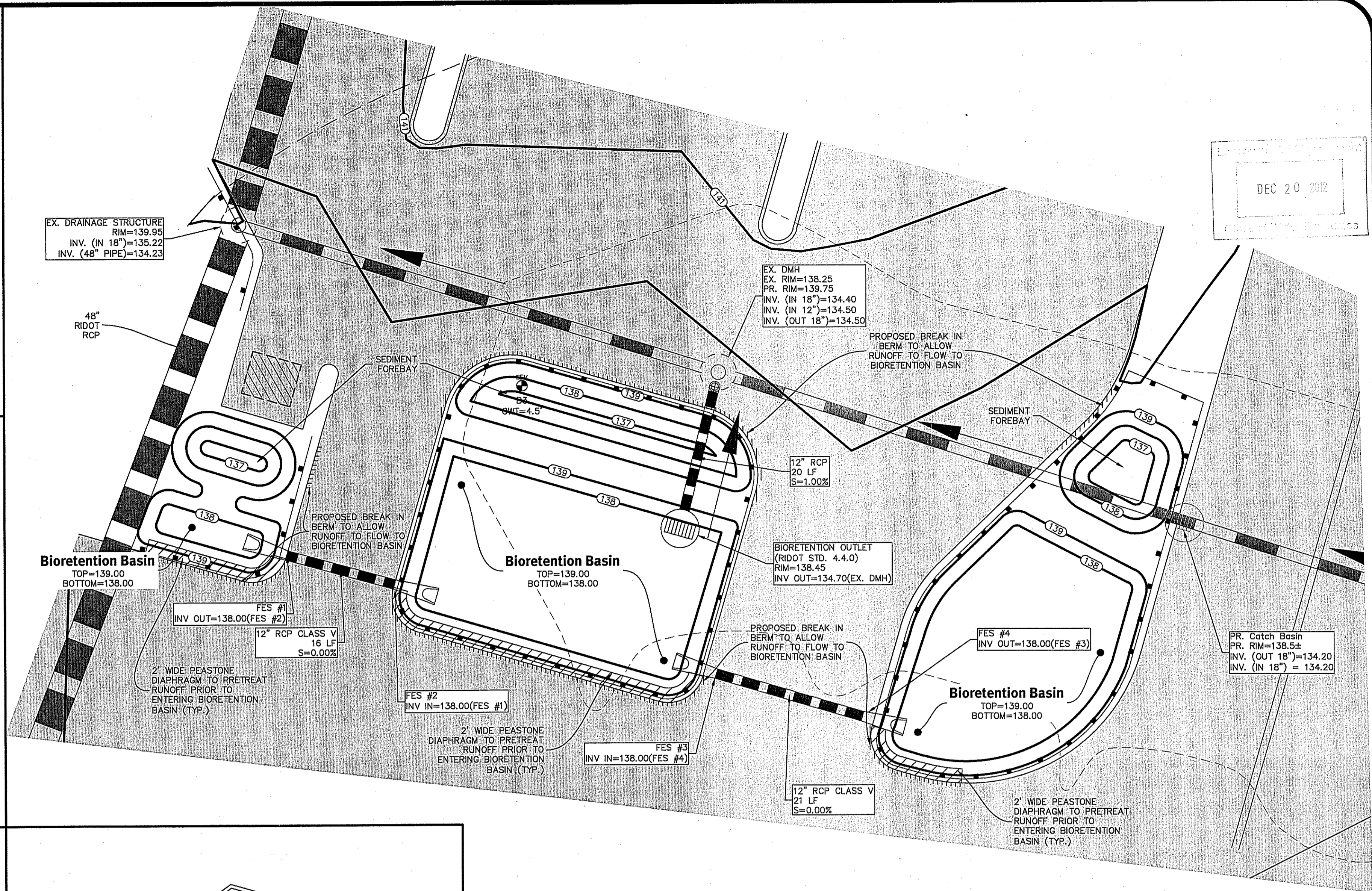
Applicant: **TC Johnson, LLC c/o Jeff Salehin**
1401 Hartford Avenue, Johnston, RI 02891
Tel: 401-943-3100 Fax: 401-943-3100

Harford Avenue Associates
1401 Hartford Avenue, Johnston, RI 02891
Tel: 401-943-3100 Fax: 401-943-3100

- NOTES:
- THIS PAVEMENT SECTION DETAIL REFLECTS MINIMUM REQUIREMENTS. ENGINEER TO DETERMINE DESIGN BASED ON GEO-TECHNICAL DATA OF SPECIFIC PROJECT AND DAILY TRAFFIC DESIGN REQUIREMENT.
 - SUBBASE AND BASE COURSES SHOULD BE COMPACTED IN 1-FOOT (MAXIMUM) LIFTS TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-1557.
 - FILL BELOW THE SUBBASE SHOULD BE COMPACTED TO AT LEAST 92% OF THE MAXIMUM DRY DENSITY.



TYPICAL HEAVY-DUTY ASPHALT & STANDARD ASPHALT PAVEMENT SECTION
NOT TO SCALE

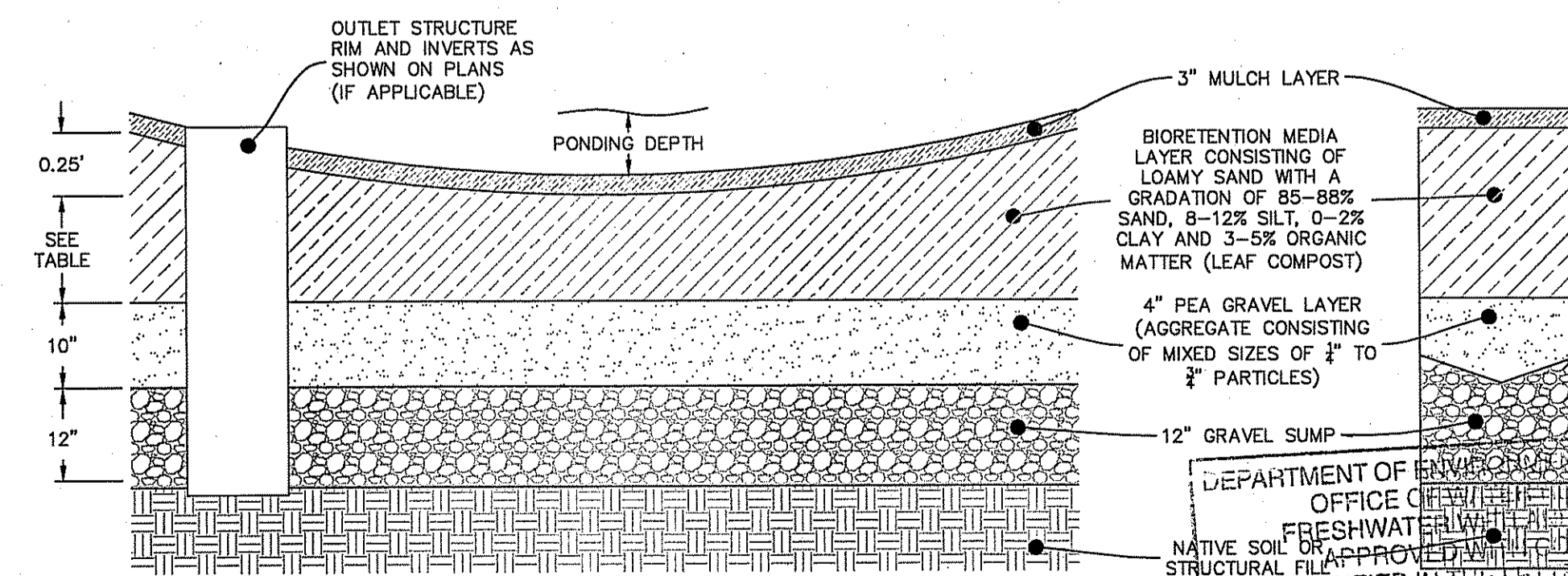


| CAT. NO. | A | B | C | D | WT. (LBS) |
|----------|-----------|----|-----------------|--------|-----------|
| R-4853-A | 24" x 45" | 3" | 1 1/2" x 6 1/2" | 1 1/2" | 520 |

DOUBLE FRAME & GRATE
NEENAH FOUNDRY CORP. (OR EQUAL)
NOT TO SCALE

| DESCRIPTION | BIO |
|------------------------------|--------|
| AVAILABLE STORAGE ELEVATION | 138.99 |
| 100 YEAR STORM ELEVATION | 138.90 |
| 10 YEAR STORM ELEVATION | 138.84 |
| 1 YEAR STORM ELEVATION | 138.70 |
| OUTLET ELEVATION | 138.45 |
| TOP OF MULCH | 138.00 |
| BIO-MEDIA LAYER DEPTH | 3.0' |
| SEASONAL HIGH GWT ELEVATION* | 134.50 |
| SOIL EVALUATION | B3 |

- BIORETENTION NOTES:**
- BIORETENTION AREAS SHALL BE PLANTED PER APPENDIX B OF THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION MANUAL OR LANDSCAPE PLANS. LANDSCAPE FEATURES ON LANDSCAPE PLANS SUPERCEDE THESE PLANS.
 - BIORETENTION AREAS SHALL BE HAND COMPACTED ONLY. NO MACHINES SHALL BE DRIVEN THROUGH OR OPERATED WITHIN THE BIORETENTION FOOTPRINT.
 - BIORETENTION AREAS SHALL BE PROTECTED WITH SILT FENCE (RIDOT STD 9.2.0) OR APPROVED EQUAL ONCE BIORETENTION SOIL HAS BEEN INSTALLED. AREA IS TO REMAIN PROTECTED UNTIL ALL TRIBUTARY AREAS HAVE BEEN STABILIZED AND APPROVAL FROM THE DESIGN ENGINEER. NO CONSTRUCTION TRAFFIC IS ALLOWED ON BIORETENTION MEDIA.
 - BIORETENTION AREAS DESIGNED AS AN INFILTRATION SYSTEM SHALL BE PROTECTED WITH SILT FENCE (RIDOT STD 9.2.0) OR APPROVED EQUAL AT THE START OF CONSTRUCTION. NO CONSTRUCTION TRAFFIC IS ALLOWED WITHIN BIORETENTION LIMITS THROUGHOUT CONSTRUCTION.
 - NOTE THE BIORETENTION BASIN CONSISTS OF THREE SEPARATE DEPRESSIONS, ALL AT THE SAME ELEVATION. THESE THREE DEPRESSIONS ARE LINKED USING FLARED END SECTIONS AND PIPE. THE BIORETENTION BASIN IS MODELED AS A SINGLE BASIN.



BIORETENTION CROSS SECTION
NOT TO SCALE

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

| No. | Date | Description | By: |
|-----|----------|---------------------------------------|--------|
| 0 | 12-29-12 | RHODES Permit Modification Submission | B.A.H. |
| 1 | | | BY: |

Design By: B.A.H.
Drawn By: B.A.H.

RIDEM Preliminary Determination

Westgate Shopping Center Re-construction

Located on Hartford Avenue (Route 6A)

Johnston, Rhode Island

Assessor's Plat 44/3 Lot 86

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

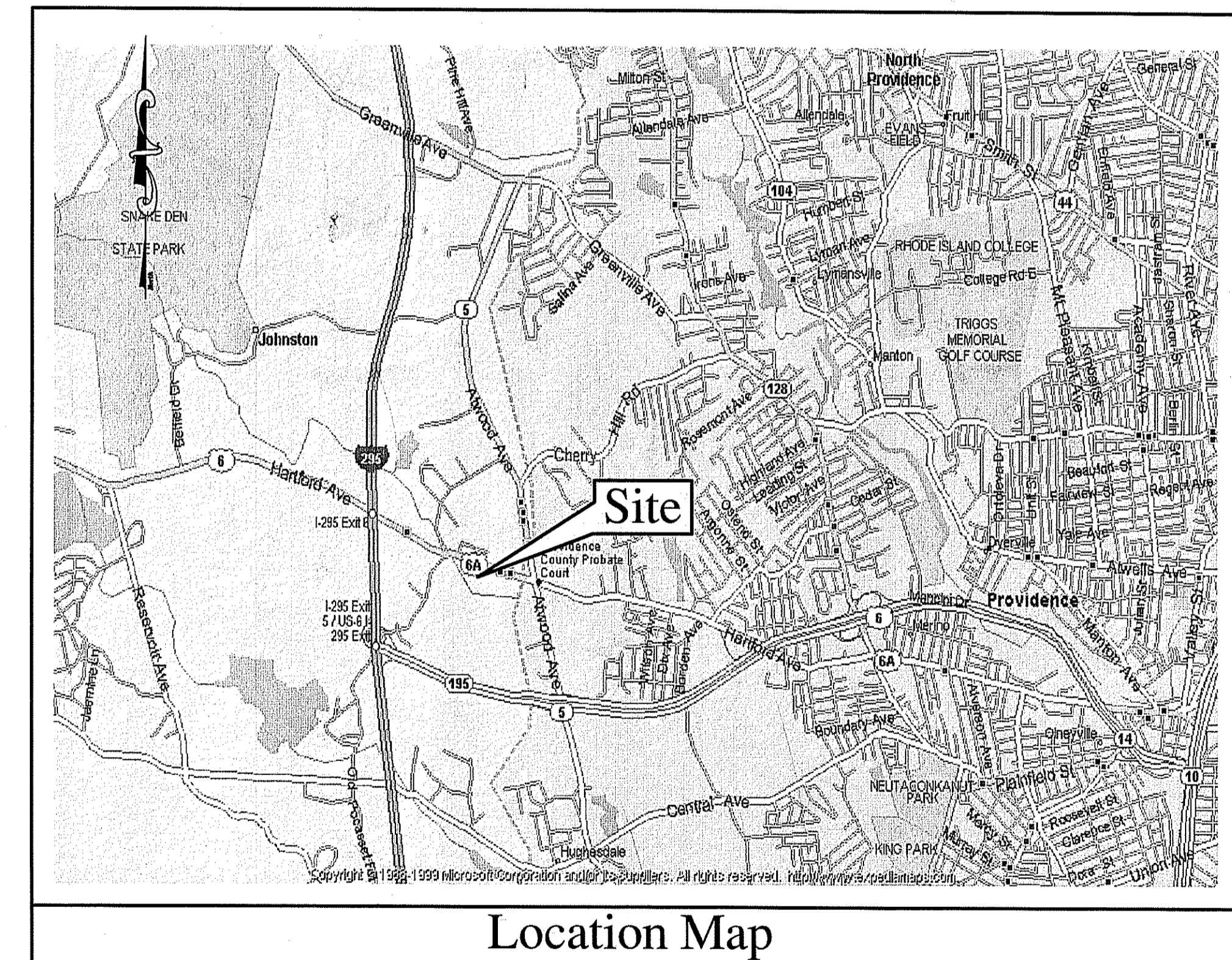
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED Jan. 6, 2010 FILE # 09-0280
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RECEIVED
NOV 5 2009
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

Charles A. Haber

Sheet Index

1. Cover Sheet
2. Aerial 1/2 Mile Radius
3. Existing Conditions Plan
4. Demolition Plan
5. Overall Plan
6. Grading/Utility Plan
7. Grading/Utility Plan
8. Grading/Utility Plan
9. Detail Sheet
10. Detail Sheet
11. Detail Sheet
12. Floodplain Cut-Fill Plan



Preliminary Submission

KEVIN C. MORIN
No. 7051
REGISTERED PROFESSIONAL ENGINEER
CIVIL

COVER SHEET

Westgate Shopping Center Re-construction

ASSESSOR'S PLAT 44/3 LOT 86
JOHNSTON, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.

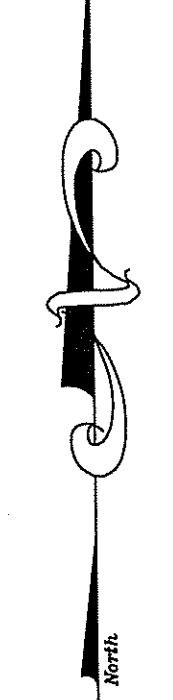
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
TWO STAFFORD COURT
CRANSTON, R.I. 02920
(401) 943-1000 FAX: (401) 464-6006

PREPARED FOR
Hartford Avenue Associates

C/O PICERNE REAL ESTATE GROUP
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886
(401) 732-3700

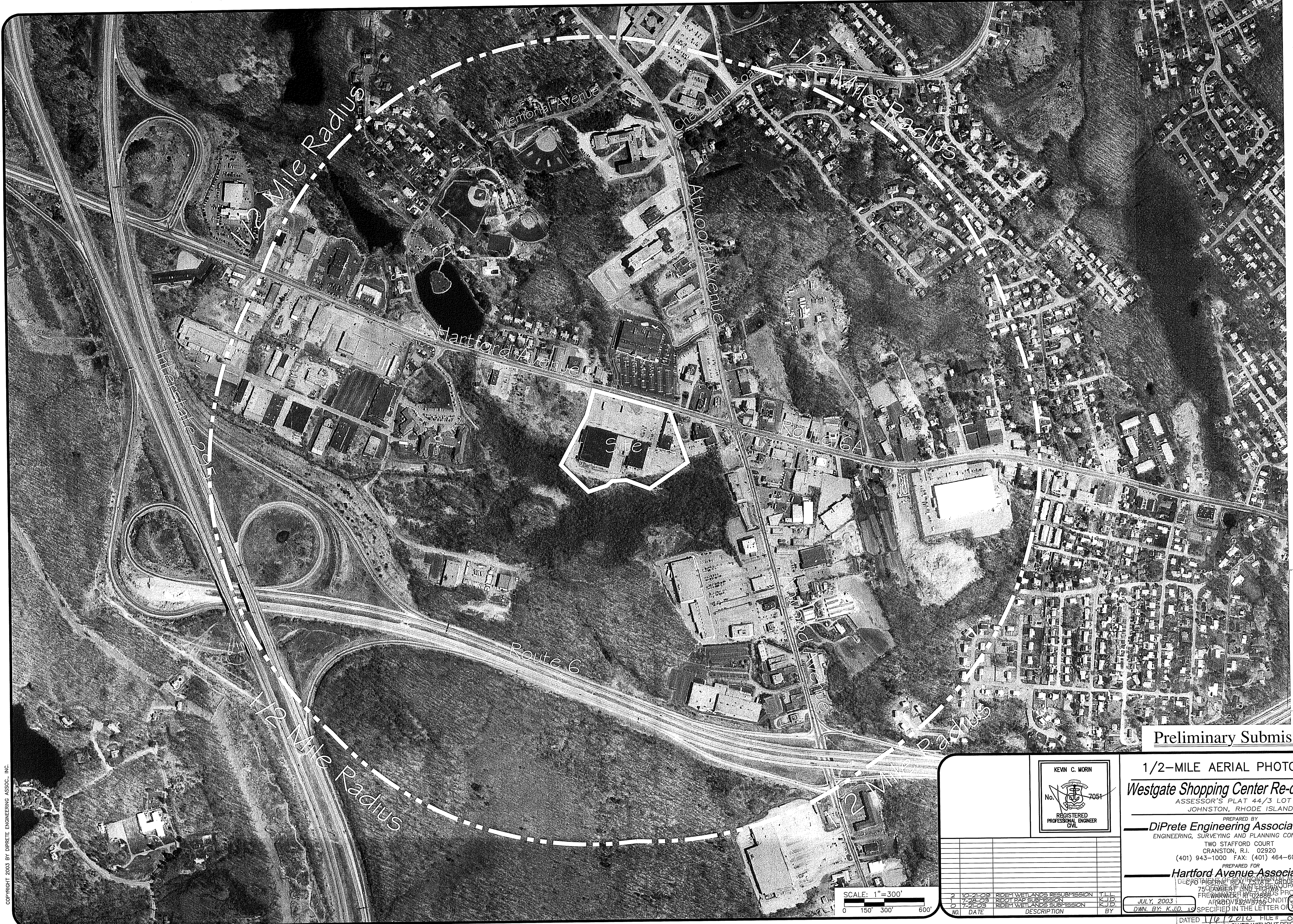
JULY, 2003
DWN. BY: K.J.D.

SHEET 1 OF 12



NOV 5 2006

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



Preliminary Submission

KEVIN C. MORIN
 No. 7051
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

1/2-MILE AERIAL PHOTOGRAPH
Westgate Shopping Center Re-construction
 ASSESSOR'S PLAT 44/3 LOT 86
 JOHNSTON, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.
 ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
 TWO STAFFORD COURT
 CRANSTON, R.I. 02920
 (401) 943-1000 FAX: (401) 464-6006

PREPARED FOR
Hartford Avenue Associates
 750 WASHINGTON STREET
 FRESHWATER WETLANDS PROGRAM
 APPROVED BY THE R.I. DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 JULY, 2003
 DWN. BY: K.J.D. AS SPECIFIED IN THE LETTER OF APPROVAL

SCALE: 1" = 300'
 0 150' 300' 600'

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|-----------------------------|--------|
| 2 | 10-21-03 | RIDEM WETLANDS RESUBMISSION | T.L.L. |
| 1 | 7-28-03 | RIDOT PAP SUBMISSION | K.J.D. |
| 0 | 7-21-03 | RIDEM WETLANDS SUBMISSION | K.J.D. |

DATED 1/16/2010 FILE # 04-0280
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

COPYRIGHT 2003 BY DIPRETE ENGINEERING ASSOC., INC.

General Notes

1. SITE IS LOCATED ON A.P. 44/3 LOT 86. ZONING OF THE SITE IS B2 (GENERAL BUSINESS).
2. OWNER AND APPLICANT OF THE SITE IS HARTFORD AVENUE ASSOCIATES C/O PICERNE REAL ESTATE GROUP. MAILING ADDRESS IS 75 LAMBERT LIND HIGHWAY, WARWICK RI 02886.
3. EDGE OF WATER LOCATED BY DIPRETE ENGINEERING ASSOC., INC., USING GPS TECHNOLOGY.
4. TOPOGRAPHY OBTAINED FROM FIELD SURVEY BY DIPRETE ENGINEERING ASSOC., INC. DATUM IS NGVD '29.
5. THERE IS A 100 YEAR FLOOD PLAN ON SITE. FLOODPLAIN ELEVATIONS SHOWN ON THIS PLAN OBTAINED FROM FIRM MAP 44007C0284G PANEL 284 OF 451 EFFECTIVE DATE MARCH 2, 2009. LIMIT OF FLOODPLAIN SHOWN IS INTERPOLATED BETWEEN KNOWN ELEVATIONS.
6. THE PROPERTY LINE SHOWN IS FROM A CLASS I PLAN. REFER TO "EXISTING CONDITIONS and SURVEY PLAN: WESTGATE SHOPPING CENTER; HARTFORD AVENUE, JOHNSTON, RHODE ISLAND; ASSESSOR'S PLAT 44 LOT 86" PREPARED BY DIPRETE ENGINEERING ASSOCIATES, INC., JUNE 19, 1998.
7. UTILITIES SHOWN ARE FROM BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE ONLY.
8. CURRENT ZONING OF THE SITE IS B2 (GENERAL BUSINESS).

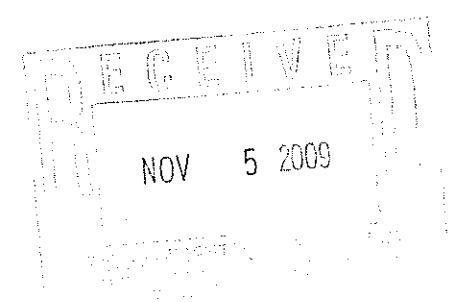
DIMENSIONAL REGULATIONS:

| | |
|----------------------------|--------|
| MAXIMUM BUILDING COVERAGE | 40% |
| MAXIMUM BUILDING HEIGHT | 35 FT. |
| MINIMUM FRONT YARD SETBACK | 40 FT. |
| MINIMUM SIDE YARD SETBACK | 40 FT. |
| MINIMUM REAR YARD SETBACK | 40 FT. |

Soil Information

SOIL DATA OBTAINED FROM SOIL SURVEY OF RHODE ISLAND BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.

| SOIL | DESCRIPTION |
|------|-------------|
| UD | UDORTHERTS |
| Ur | URBAN LAND |



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 1/6/2010 FILE # 09-0280
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Herbert

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

CERTIFICATION:
THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. IT IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND MAY BE SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.

Preliminary Submission

EXISTING CONDITIONS PLAN

Westgate Shopping Center Re-construction

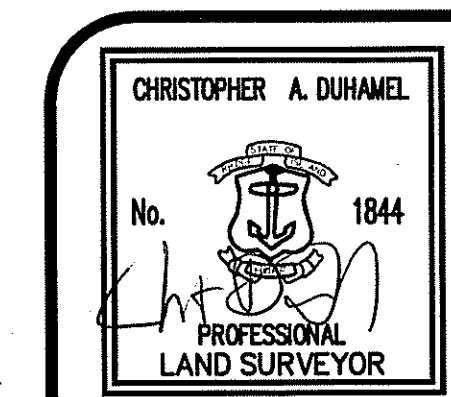
ASSESSOR'S PLAT 44/3 LOT 86
JOHNSTON, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
TWO STAFFORD COURT
CRANSTON, R.I. 02920
(401) 943-1000 FAX: (401) 464-6006

PREPARED FOR
Hartford Avenue Associates
C/O PICERNE REAL ESTATE GROUP
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886
(401) 732-3700

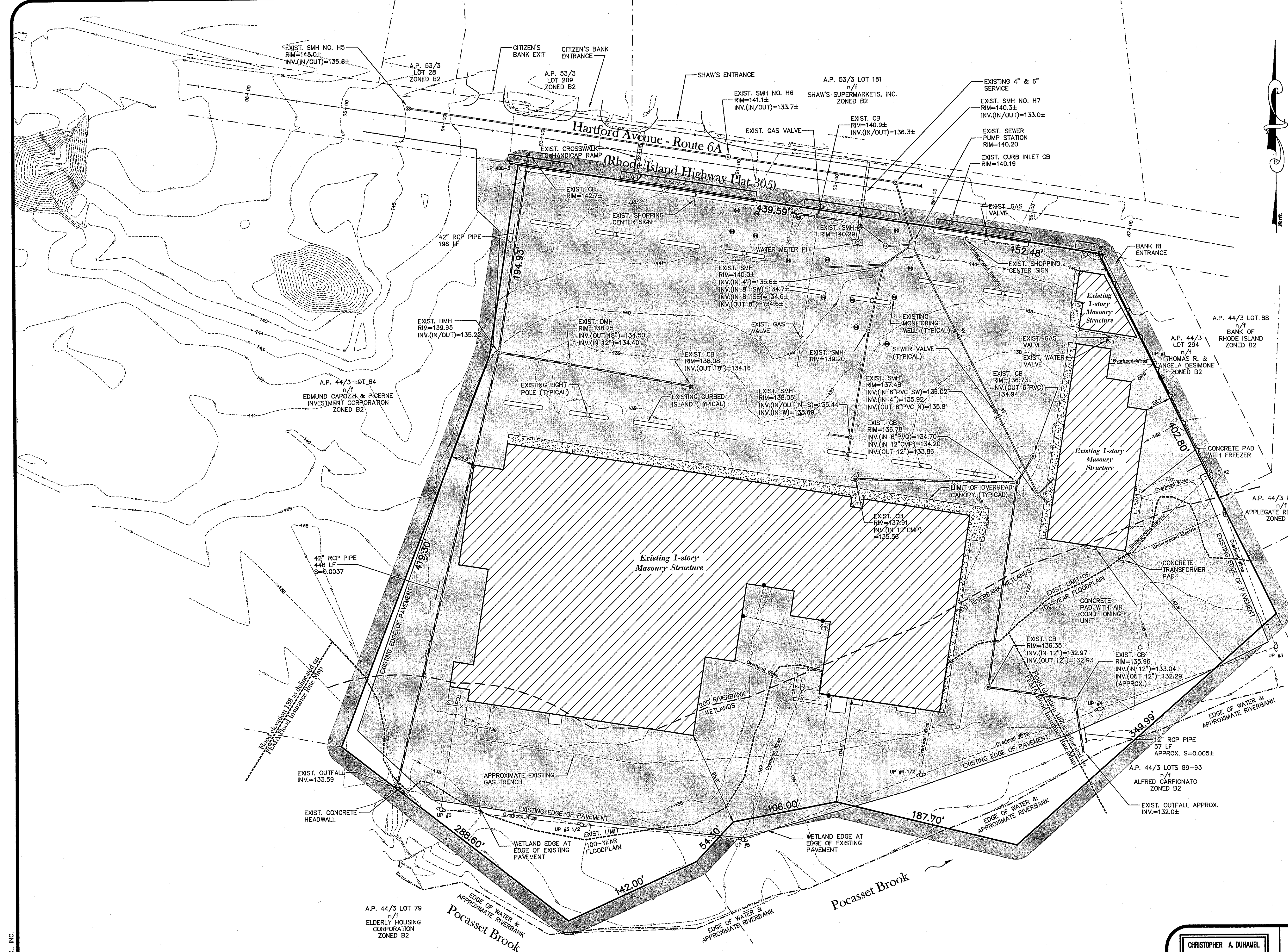
JULY, 2003
DWN. BY: K.J.D.

SHEET **3** OF 12



| NO. | DATE | DESCRIPTION | BY |
|-----|----------|-----------------------------|--------|
| 2 | 10-31-09 | RIDER WETLANDS RESUBMISSION | T.L.L. |
| 1 | 7-28-09 | RIDER PAV SUBMISSION | K.J.D. |
| 0 | 7-21-09 | RIDER WETLANDS SUBMISSION | K.J.D. |

SCALE: 1"=50'
0 25' 50' 100'



COPYRIGHT 2003 BY DIPRETE ENGINEERING ASSOC., INC.

General Construction Notes

1. THE CONTRACTOR IS TO NOTIFY DIG SAFE PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR IS TO SUBMIT A CONSTRUCTION TRAFFIC SAFETY PLAN TO THE DIRECTOR OF PUBLIC SAFETY PRIOR TO THE START OF CONSTRUCTION. APPROVAL OF SUCH PLAN IS REQUIRED.
3. NO STOCKPILING OF MATERIAL IS TO BE ALLOWED WITHIN A PUBLIC R.O.W. NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
4. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR IS TO NOTIFY THE DIRECTOR OF PUBLIC WORKS, RHODE ISLAND DEPARTMENT OF TRANSPORTATION, THE TOWN ENGINEER, AND R.I. DEPT. OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
6. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND TOWN OF JOHNSTON STANDARD SPECIFICATIONS AND DETAILS.
7. UTILITIES PROPOSED TO BE REMOVED SHALL BE DISPOSED OF OR RECYCLED IN ACCORDANCE WITH ALL APPLICABLE LAWS.
8. ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE IN AN APPROVED MANNER AT AN APPROVED LOCATION.
9. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
10. ALL PROPOSED DRAINAGE PIPE TO BE ADS UNLESS OTHERWISE NOTED.
11. EXISTING PILES OF CONSTRUCTION DEBRIS (BROKEN PAVEMENT AND SOIL) TO BE REMOVED FROM WETLANDS EDGE LOCATED ALONG THE EXISTING SOUTHERN LIMIT OF PAVEMENT AND WORK. THIS MATERIAL WILL BE PROPERLY DISPOSED OF IN AN UPLAND LOCATION IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. TO ACCOMPLISH THIS NO CLEARING OF TREES IS PROPOSED AND A BACKHOE OR EXCAVATOR LOCATED AT THE EDGE OF PAVEMENT SHALL REMOVE THE MATERIAL. DISTURBED AREAS TO BE LOAMED AND SEEDED AND COVERED WITH HAY MULCH TO NATURALLY REVEGETATE IN CONJUNCTION WITH OTHER PROPOSED PLANTINGS AS SHOWN.
12. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR UTILITY CONNECTIONS, INCLUDING UTILITY PERMITS FROM RIDOT.

Handicap Accessible Parking Calculation:

REQUIRED PARKING
(5.5/1000 SF) X 115,367 SF = 635 SPACES

TOTAL PARKING PROVIDED ON SITE
545 SPACES (VARIANCE REQUESTED)

REQUIRED ACCESSIBLE PARKING PER ADA ACCESSIBILITY GUIDELINES (ADAAG) BY THE DEPARTMENT OF JUSTICE:
11 SPACES (2% OF TOTAL FOR 501-1000 SPACES)

HANDICAP ACCESSIBLE PARKING PROVIDED:
11 SPACES (INCLUDES 4 VAN ACCESSIBLE SPACES)

VAN ACCESSIBLE PARKING REQUIRED PER ADAAG:
2 SPACES (ONE OUT OF EVERY EIGHT)

VAN ACCESSIBLE PARKING PROVIDED:
2 SPACES

Floodplain Volume Calculation:

FROM EXISTING TO PROPOSED CONDITIONS, USING CHANGE IN VOLUME AT AND BELOW FEMA FLOOD INSURANCE RATE MAP PUBLISHED ELEVATIONS (SEE FIRM ELEVATIONS THIS SHEET AND ON EXISTING CONDITIONS PLAN):
CUT = 359 CY
NET CUT = 120 CY

NOTE: NO NET FILL OF FLOODPLAIN IS PROPOSED FOR THIS PROJECT.

*NET CHANGE IN FLOODPLAIN VOLUME CALCULATED USING AUTOCAD LAND DEVELOPMENT SOFTWARE (SEE CUT-FILL SPOT GRADES & SURFACE CROSS SECTIONS ON SHEET 12)

Symbol Legend

| | | | |
|--|-------------------------------------|--|---|
| | Existing 1' contour | | Proposed watermain |
| | Existing 3' contour | | Proposed hydrant |
| | Proposed 1' contour | | Proposed gatevalve |
| | Existing utility pole | | Proposed thrustblock |
| | Existing Hartford Avenue sewer main | | Proposed top/bottom curb elevation |
| | Existing sewer valve | | Proposed top/bottom wall elevation |
| | Existing site sewer | | Proposed top/bottom step elevation |
| | Existing catch basin | | Proposed end curb (at pavement grade) elevation |
| | Existing drainage manhole | | Proposed edge of pavement elevation |
| | Proposed sewer force main | | Proposed finish grade at pavement elevation |
| | Proposed drainage line | | Edge of water & approximate riverbank |
| | Proposed catch basin | | Proposed haybale line or silt fence |
| | Proposed double catch basin | | Proposed retaining wall |
| | Proposed drainage manhole | | Edge of 200' riverbank wetlands |
| | Limit of 100-year floodplain | | Limit of 100-year floodplain |

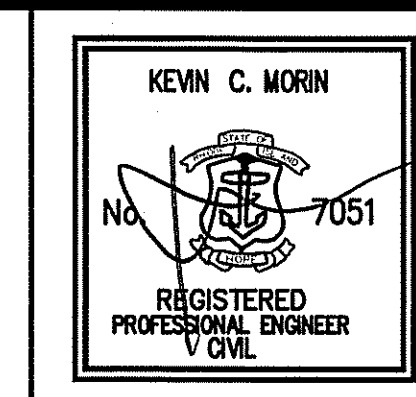
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 11/02/2010 FILE # 09-0280
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION

Preliminary Submission

| DIMENSIONAL REGULATIONS | |
|-------------------------------|--------------|
| ZONING: GENERAL BUSINESS (B2) | 40% |
| MAXIMUM BUILDING COVERAGE | 35 FT. |
| MINIMUM FRONT YARD SETBACK | 40 FT. |
| MINIMUM SIDE YARD SETBACK | 40 FT. |
| MINIMUM REAR YARD SETBACK | 40 FT. |
| DEVELOPMENT DATA | |
| GROSS AREA OF PARCEL | 10.90 ACRES |
| AREA OF BUILDING | 115,367 S.F. |
| BUILDING COVERAGE | 24% |

SCALE: 1"=50'
0 25' 50' 100'



OVERALL PLAN

Westgate Shopping Center Re-construction

ASSESSOR'S PLAT 44/3 LOT 86
JOHNSTON, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
TWO STAFFORD COURT
CRANSTON, R.I. 02920
(401) 943-1000 FAX: (401) 464-6006

PREPARED FOR
Hartford Avenue Associates
C/O PICERNE REAL ESTATE GROUP
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886
(401) 732-3700

JULY, 2003
DWN. BY: K.J.D.

SHEET 5 OF 12

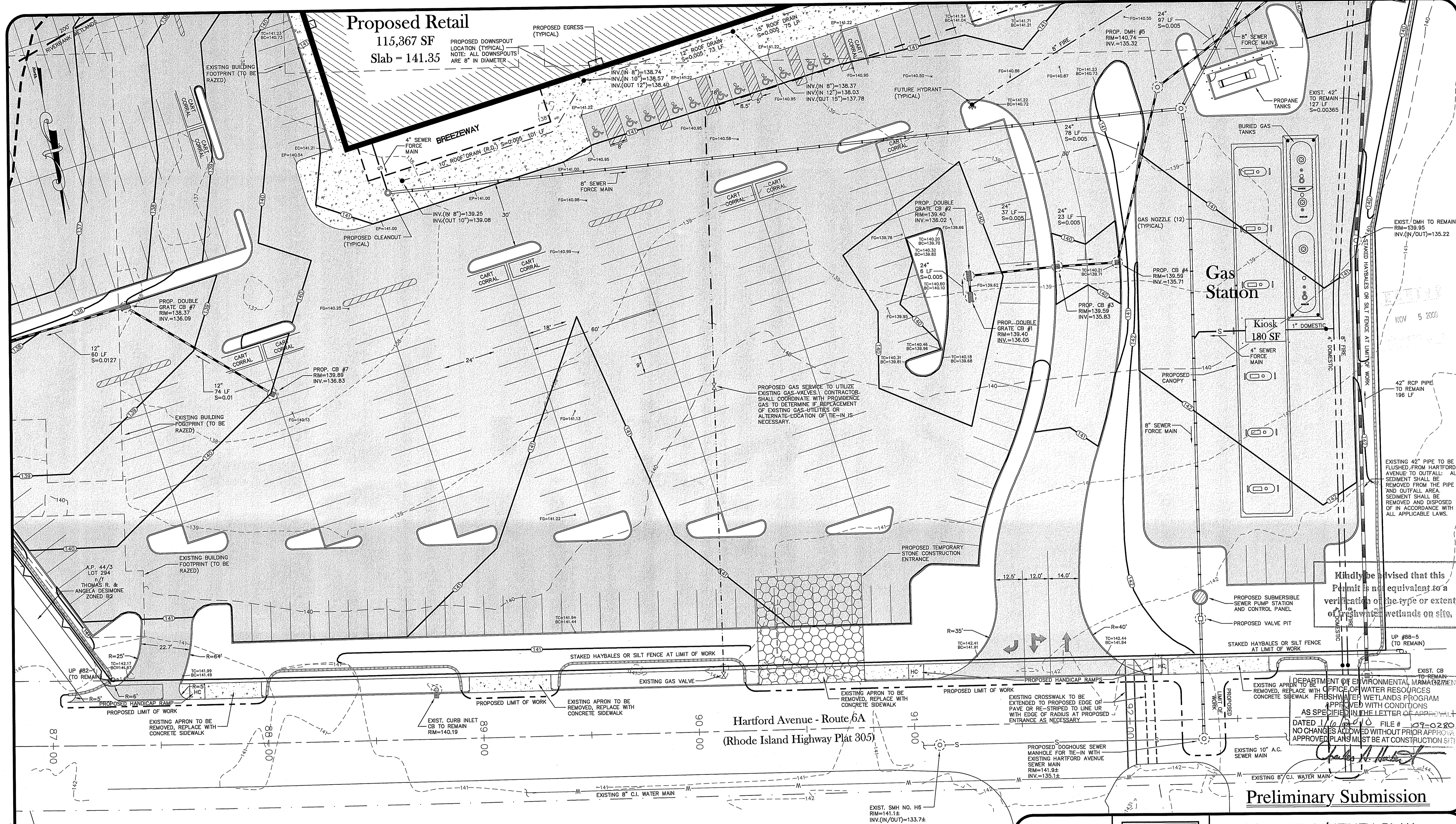
| NO. | DATE | DESCRIPTION | BY |
|-----|----------|-----------------------------|--------|
| 1 | 10-21-08 | RIDOT WETLANDS RESUBMISSION | T.L.L. |
| 2 | 12-28-08 | RIDOT CAP SUBMISSION | K.J.D. |
| 3 | 1-21-09 | RIDOT WETLANDS SUBMISSION | K.J.D. |

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Proposed Retail

115,367 SF
Slab - 141.35

PROPOSED DOWNSPOUT LOCATION (TYPICAL)
NOTE: ALL DOWNSPOUTS ARE 8" IN DIAMETER



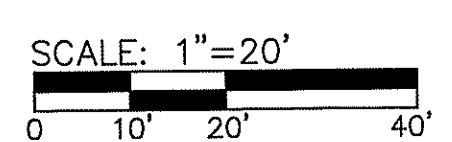
PROPOSED GAS SERVICE TO UTILIZE EXISTING GAS VALVES. CONTRACTOR SHALL COORDINATE WITH PROVIDENCE GAS TO DETERMINE IF REPLACEMENT OF EXISTING GAS UTILITIES OR ALTERNATE LOCATION OF TIE-IN IS NECESSARY.

Kindly be advised that this permit is not equivalent to a verification of the type or extent of proposed wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WRITER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL DATED 11/20/10 FILE # 09-0280
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Preliminary Submission

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KEVIN C. MORIN
REGISTERED PROFESSIONAL ENGINEER
CIVIL

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|---------------------------|--------|
| 2 | 10-21-09 | RIDEWETLANDS RESUBMISSION | T.L.L. |
| 1 | 7-28-08 | RIDOT P&I SUBMISSION | K.J.D. |
| 0 | 7-21-08 | RIDEWETLANDS SUBMISSION | K.J.D. |

GRADING/UTILITY PLAN

Westgate Shopping Center Re-construction

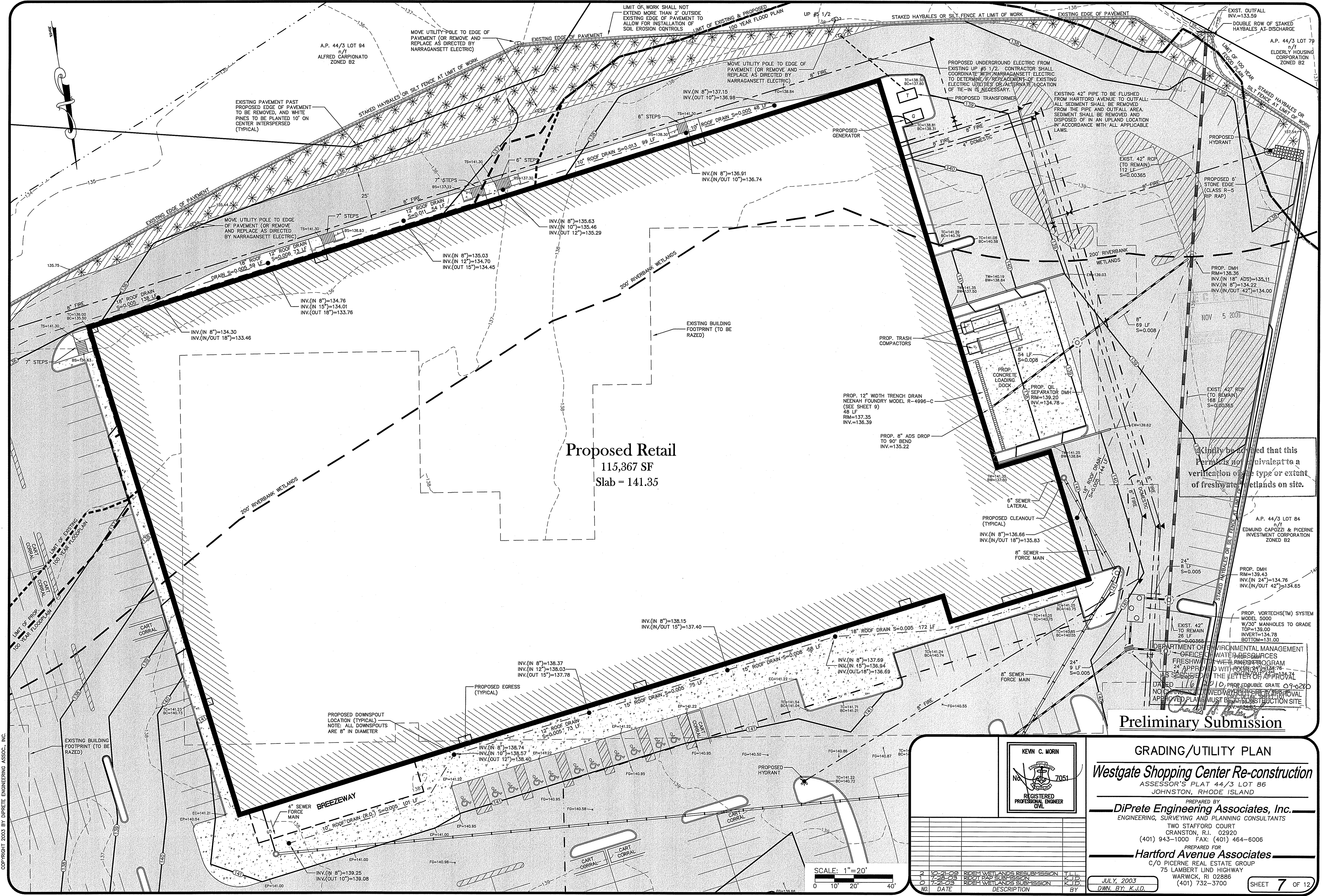
ASSESSOR'S PLAT 44/3 LOT 86
JOHNSTON, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
TWO STAFFORD COURT
CRANSTON, R.I. 02920
(401) 943-1000 FAX: (401) 464-6006

PREPARED FOR
Hartford Avenue Associates
C/O PICERNE REAL ESTATE GROUP
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886
(401) 732-3700

JULY 2003
DWN. BY: K.J.D.

SHEET **6** OF 12



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Proposed Retail
115,367 SF
Slab = 141.35

Preliminary Submission

GRADING/UTILITY PLAN

Westgate Shopping Center Re-construction

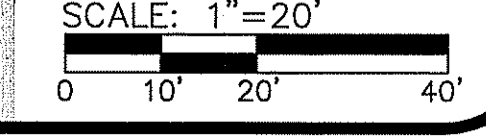
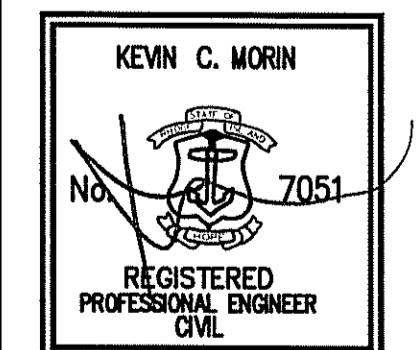
ASSESSOR'S PLAT 44/3 LOT 86
JOHNSTON, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.

ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
TWO STAFFORD COURT
CRANSTON, R.I. 02920
(401) 943-1000 FAX: (401) 464-6006

PREPARED FOR
Hartford Avenue Associates

C/O PICERNE REAL ESTATE GROUP
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886
(401) 732-3700

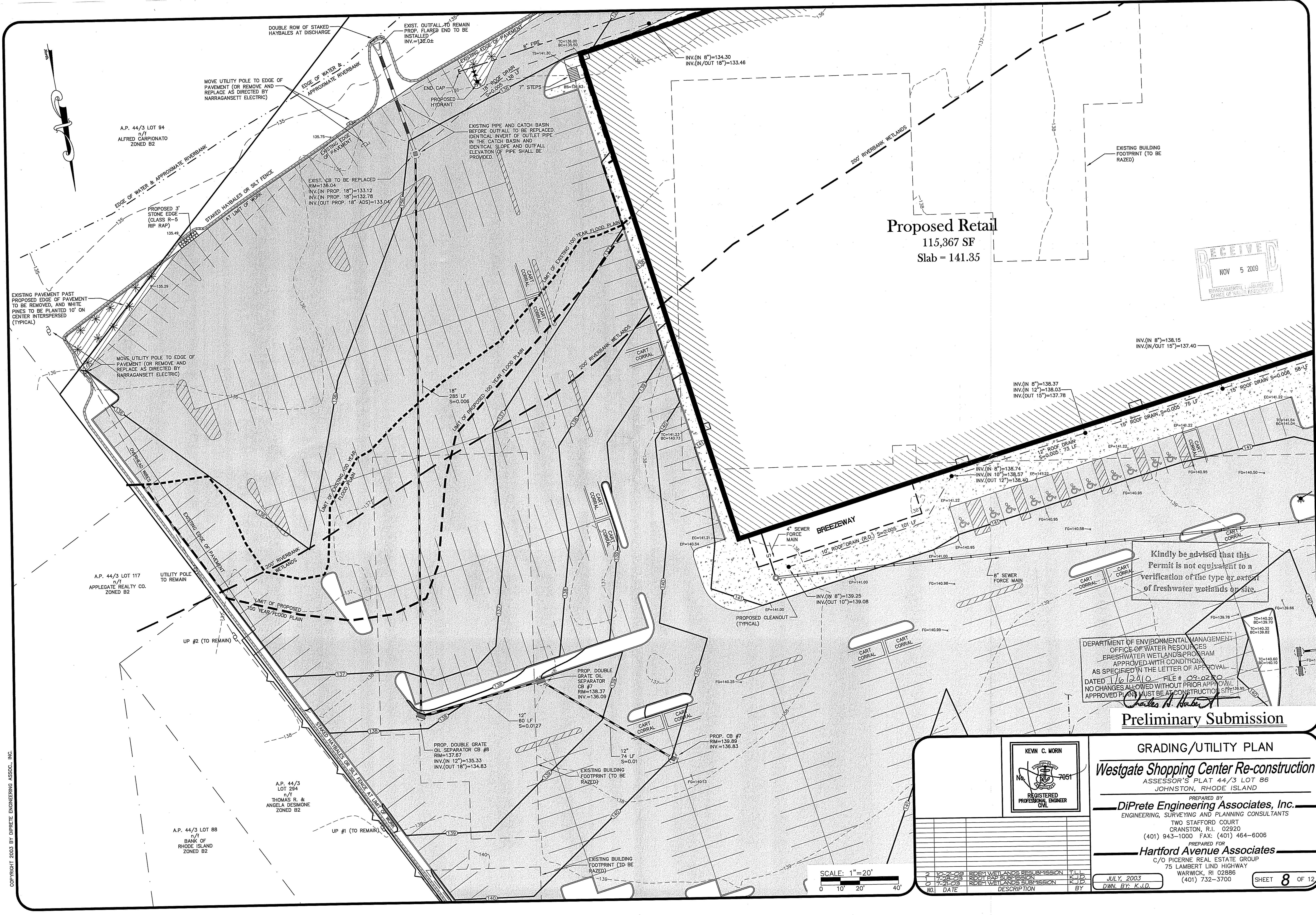


| NO. | DATE | DESCRIPTION | BY |
|-----|----------|------------------------------|-----|
| 2 | 10-21-03 | REDEM WETLANDS RE-SUBMISSION | TLL |
| 1 | 7-21-03 | ROOF DRAIN REVISION | SKD |
| 0 | 7-21-03 | REDEM WETLANDS SUBMISSION | SKD |

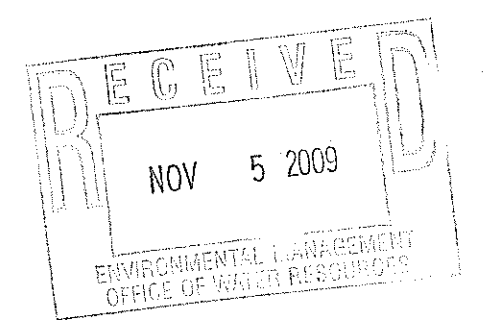
It is hereby certified that this plan is equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
24 APPROVED WITH INV(N 24)=134.76
AS SHOWN ON THE PLAN OF APPROVAL
DATED 1/6/03. PROPOSED GRADE 0.9'-0.2'
NO OTHER WETLANDS ARE TO BE REMOVED OR
APPROVED PLAN MUST BE USED FOR CONSTRUCTION SITE

COPYRIGHT 2003 BY DIPRETE ENGINEERING ASSOC., INC.



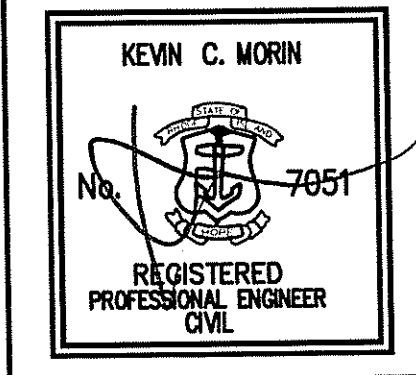
Proposed Retail
115,367 SF
Slab = 141.35



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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITION
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 10/20/10 FILE # 09-0280
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

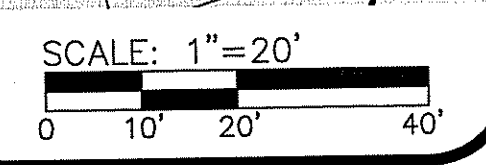
Preliminary Submission



GRADING/UTILITY PLAN
Westgate Shopping Center Re-construction
ASSESSOR'S PLAT 44/3 LOT 86
JOHNSTON, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
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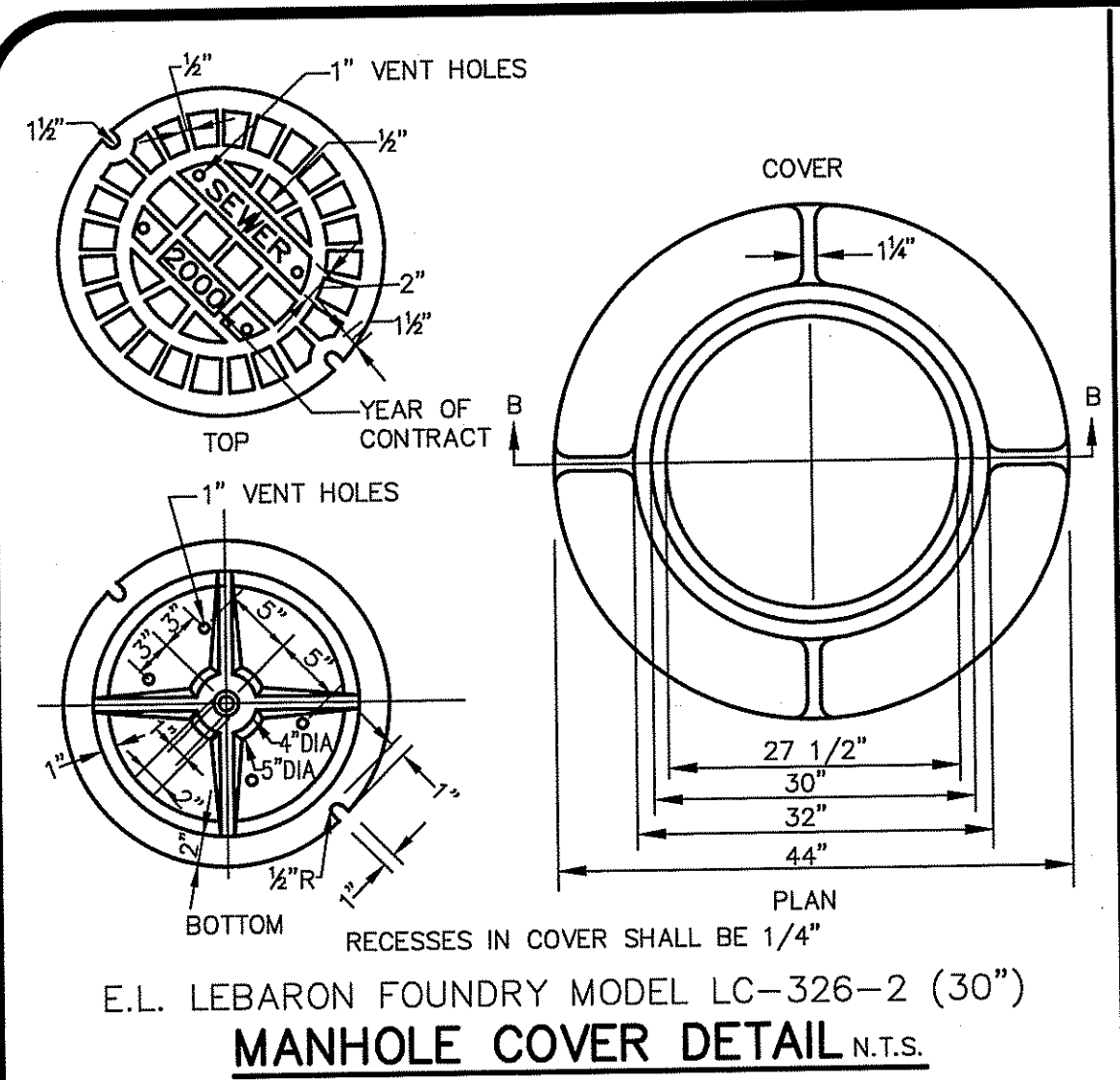
PREPARED FOR
Hartford Avenue Associates
C/O PICERNE REAL ESTATE GROUP
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886
(401) 732-3700



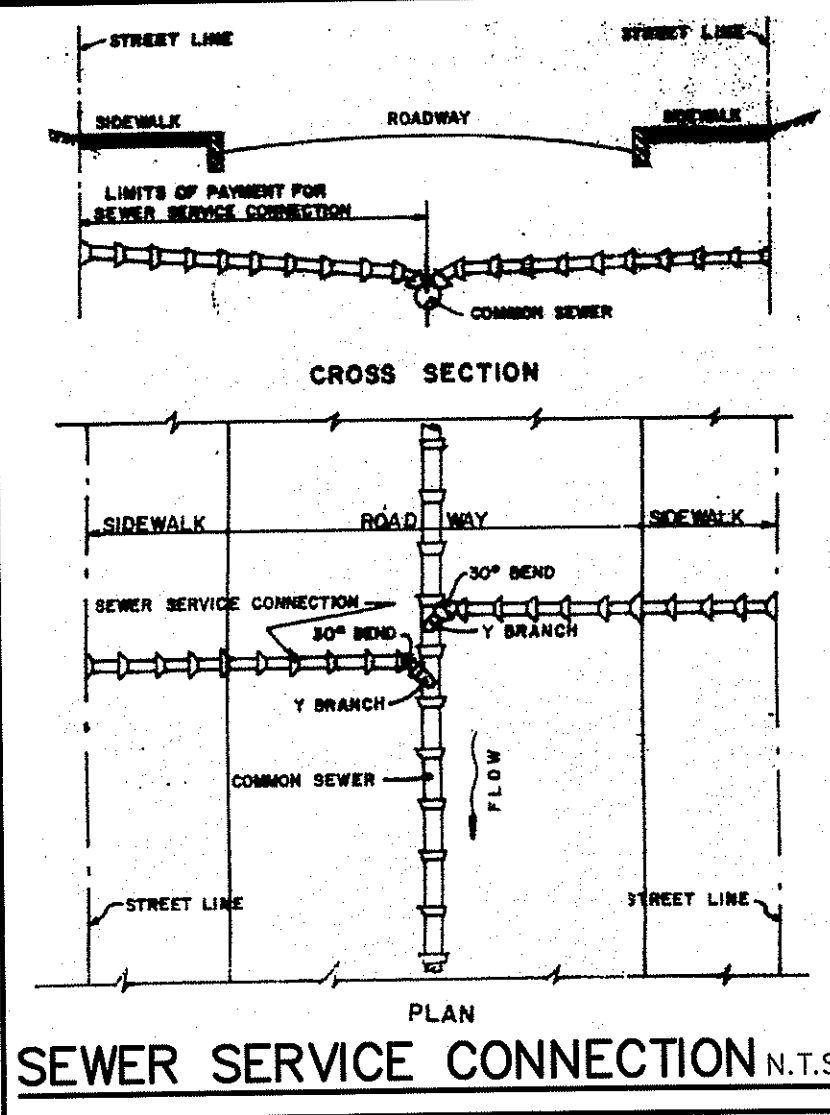
| NO. | DATE | DESCRIPTION | BY |
|-----|----------|-----------------------------|--------|
| 2 | 10-21-09 | RIVER WETLANDS RESUBMISSION | T.L.L. |
| 1 | 7-28-09 | RI DOT P&U SUBMISSION | K.J.D. |
| 0 | 7-21-09 | RIVER WETLANDS SUBMISSION | K.J.D. |

JULY, 2003
DWN. BY: K.J.D.

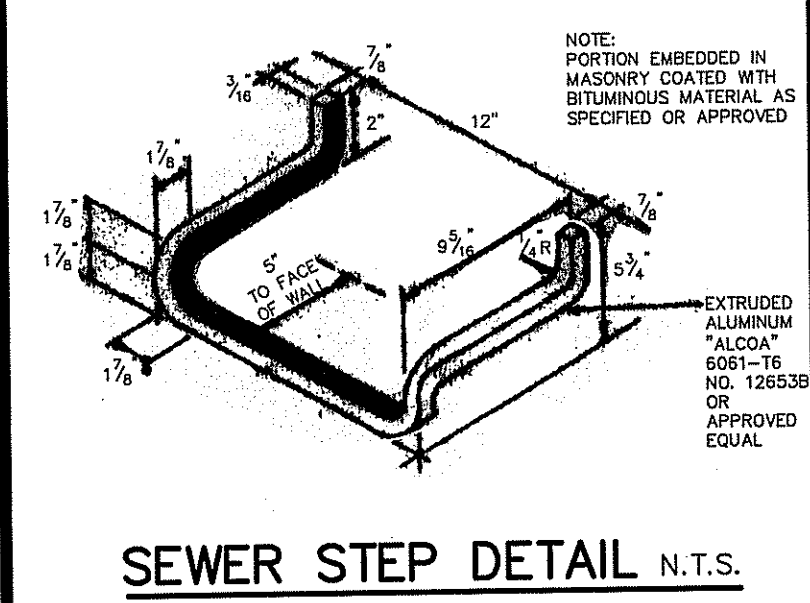
SHEET 8 OF 12



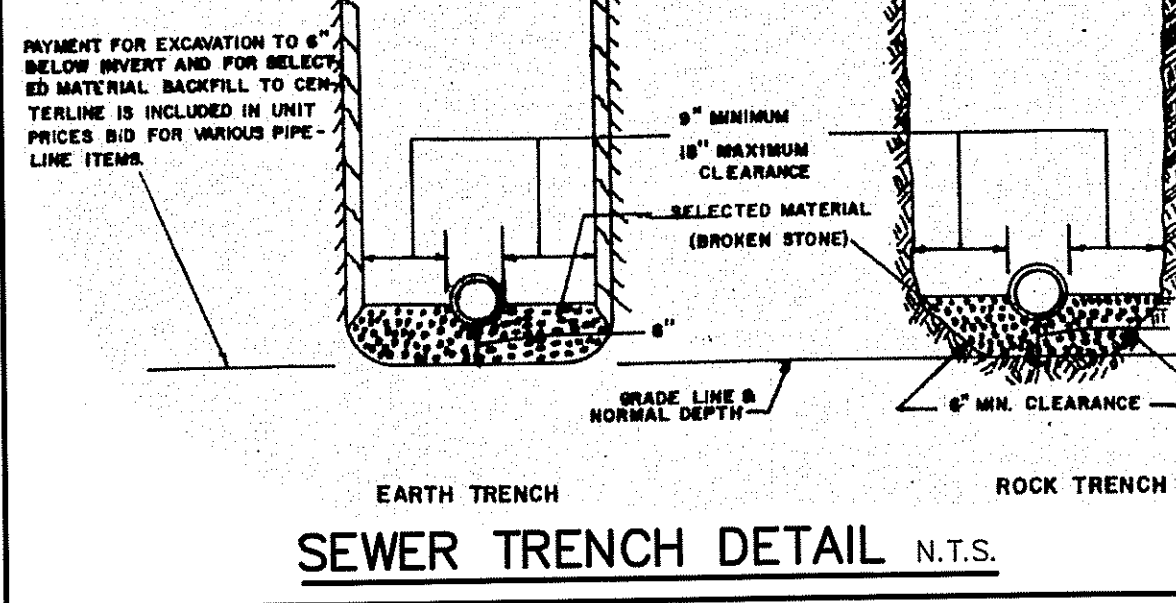
E.L. LEBARON FOUNDRY MODEL LC-326-2 (30")
MANHOLE COVER DETAIL N.T.S.



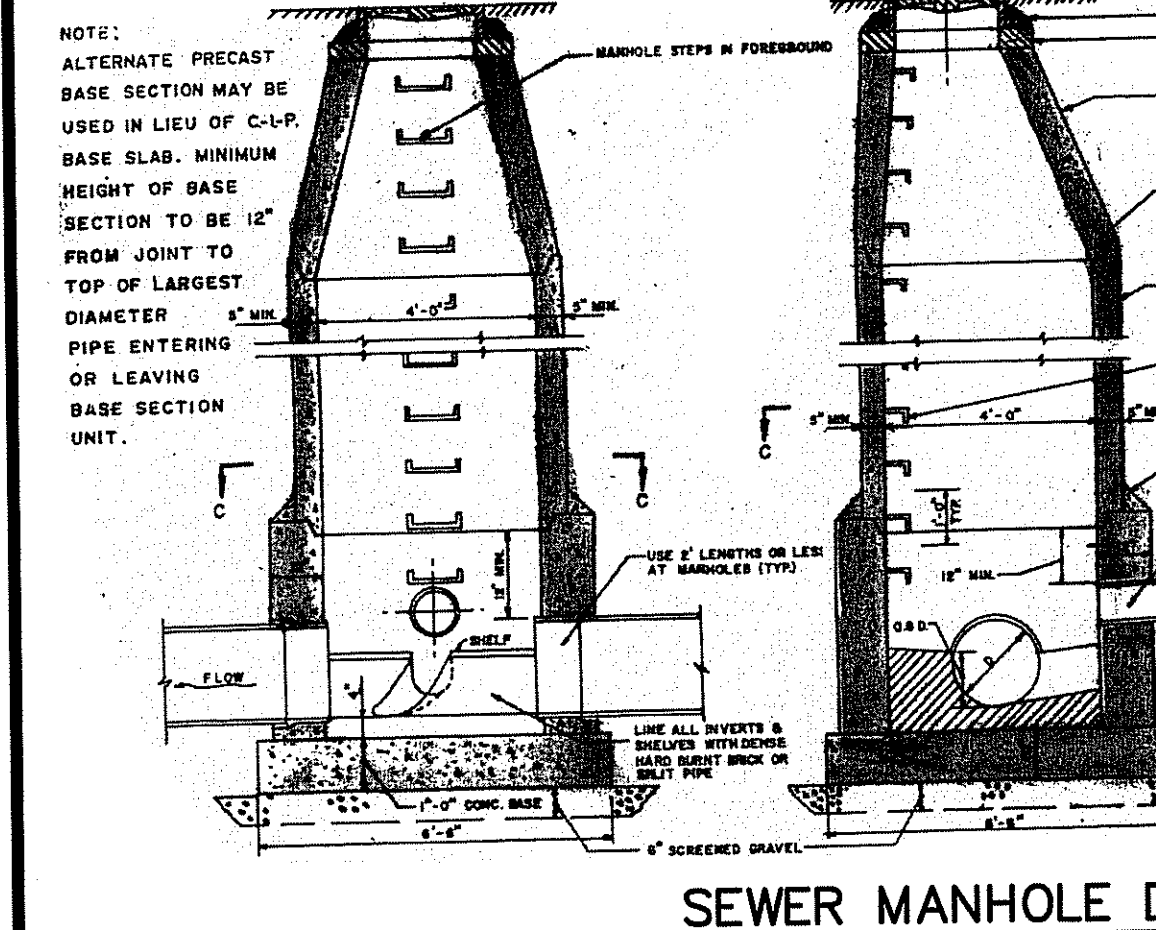
SEWER SERVICE CONNECTION N.T.S.



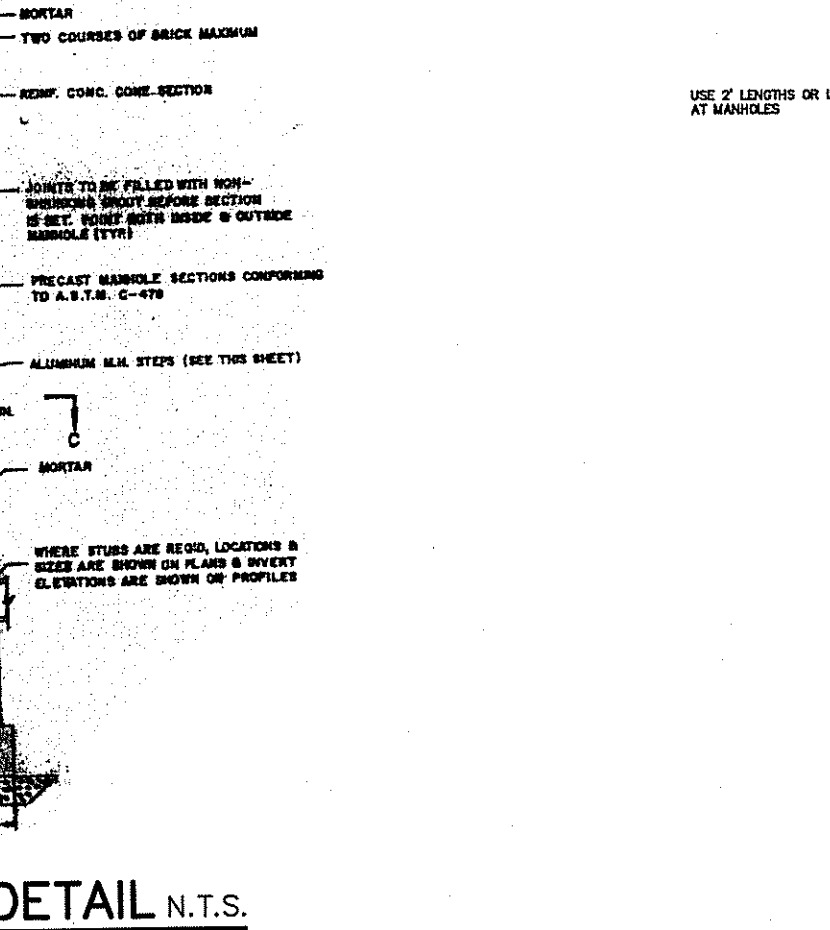
SEWER STEP DETAIL N.T.S.



SEWER TRENCH DETAIL N.T.S.



SEWER MANHOLE DETAIL N.T.S.

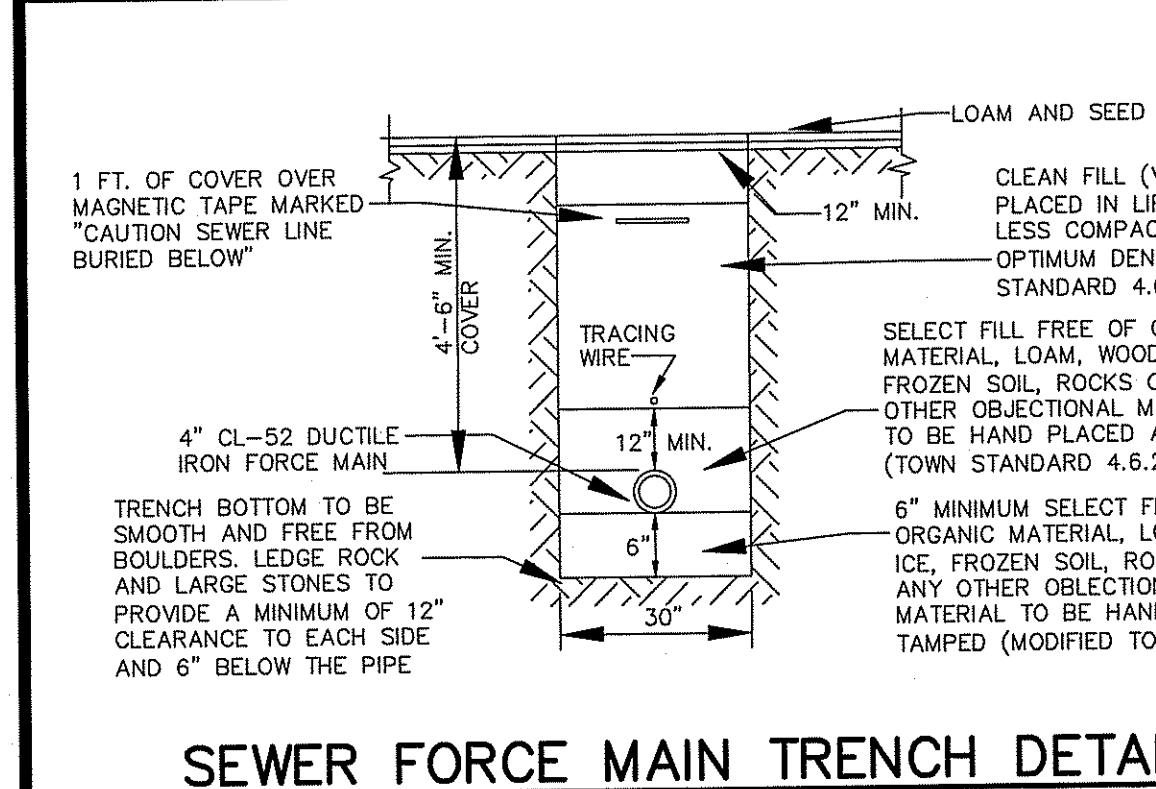


SEWER NOTES

- CONTRACTOR TO MAINTAIN 4 FT. MINIMUM COVER OVER SEWER MAIN THROUGHOUT SITE.
- VERTICAL DISTANCES BETWEEN DRAINAGE LINE TO SEWER LINE OR WATER LINE ARE TO BE 1 FT. MINIMUM.
- VERTICAL DISTANCES BETWEEN SEWER MAIN TO WATER MAIN IS TO BE 18 IN. MINIMUM. WHERE WATER SERVICES CROSS UNDER OR LESS THAN 18" ABOVE SEWER MAIN, SERVICE IS TO BE DOUBLE SLEEVED 10" ON BOTH SIDES DOUBLE SLEEVED 10" ON BOTH SIDES OF THE CROSSING. (SEE SEPARATION POLICY ABOVE)
- HORIZONTAL DISTANCE BETWEEN SEWER AND WATER IS TO BE NO LESS THAN 10' MINIMUM. (SEE SEPARATION POLICY ABOVE)
- THERE ARE NO KNOWN WELLS WITHIN 50 FT. OF THE PROPOSED SEWER SYSTEM.
- SEWER CONSTRUCTION TO CONFORM TO TOWN OF JOHNSTON SPECIFICATIONS FOR HIGHWAYS COVERING RESIDENTIAL AND INDUSTRIAL PLAT DEVELOPMENT.
- PROPOSED SEWER TO BE SDR 35 PVC UNLESS OTHERWISE NOTED.
- PIPE WHICH IS NOT CRADLED IN CONCRETE SHALL BE EMBEDDED IN WELL COMPACTED SAND OR GRAVEL WHICH SHALL BE PLACED TO A HEIGHT OF AT LEAST 6" ABOVE THE BARREL OF THE PIPE.
- LOCATION OF SEWERS SHALL BE DETERMINED BY THE ENGINEER BY SCALING FROM THE PLANS.
- VERTICAL DATUM IS MEAN SEAL LEVEL.
- THE LOCATION OF ALL EXISTING UTILITIES ARE TO BE CONSIDERED APPROXIMATE ONLY AND ARE TO BE VERIFIED BY THE CONTRACTOR.
- PIPE SLOPES AS SHOWN (EX. S=0.005) MEANS THE DROP IN FEET PER LINEAR FOOT.
- ELEVATIONS SHOWN FOR SEWERS REFER TO THE FINISHED INVERT.
- SEWER SERVICE CONNECTIONS SHALL BE AT LEAST 6" IN DIAMETER. THEY SHALL BE BUILT WHERE DIRECTED BY THE ENGINEER, THEY SHALL BE CONNECTED TO THE COMMON SEWER BY A Y BRANCH AND BEND.
- SERVICE CONNECTIONS ARE TO BE LAID WITH A SLOPE OF AT LEAST 1/4" PER FOOT. OPEN ENDS OF ALL SERVICE CONNECTIONS AND BRANCHES OR TEES ARE TO BE CLOSED WITH A STOPPER JOINTED IN PLACE. SERVICE CONNECTIONS SHALL CONNECT TO THE COMMON SEWER BY A CHIMNEY IF THE COMMON SEWER IS SUBSTANTIALLY DEEPER THAN THE NORMAL DEPTH OF THE SERVICE CONNECTIONS.

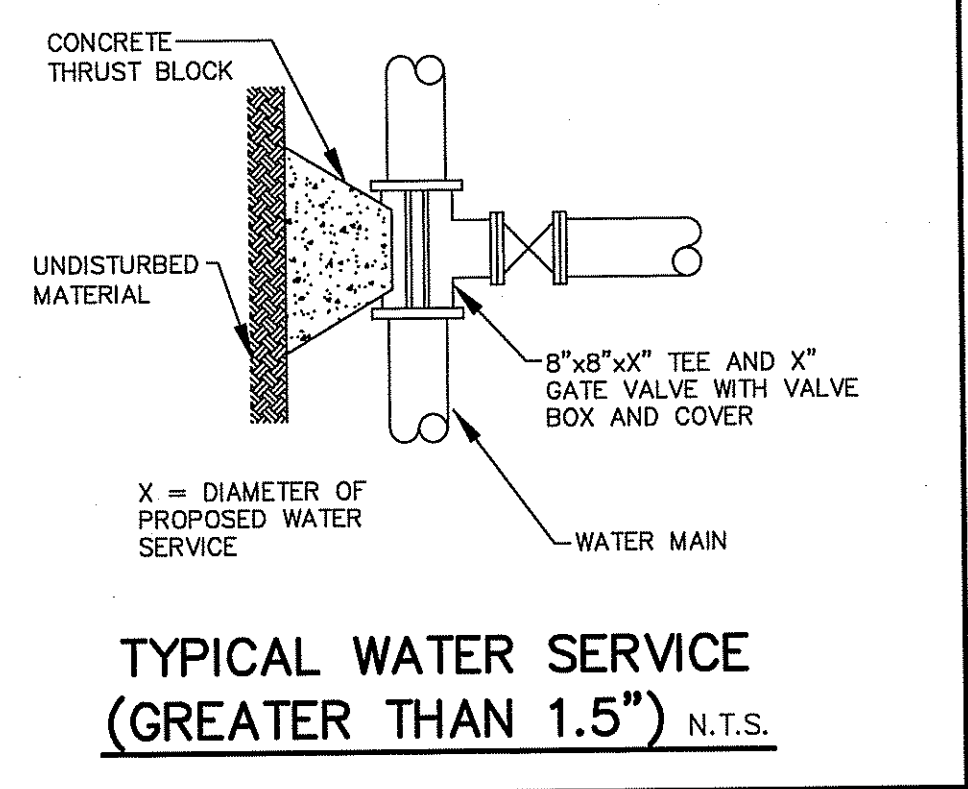
SEWER LINE/WATER MAIN SEPARATION POLICY FOR DESIGN OF SANITARY SEWERS

- A. LATERAL PLACEMENT OF SEWER & WATER MAINS
- SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. THERE IS NO MINIMUM VERTICAL SEPARATION PROVIDED THAT THE 10 FOOT HORIZONTAL SEPARATION IS MAINTAINED.
- IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE ENGINEER MAY ALLOW DEVIATION ON A CASE BY CASE BASIS, IF SUPPORTED BY DATA. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATER MAIN, PROVIDED THAT:
- THE SEWER AND WATER MAIN ARE LAID IN SEPARATE TRENCHES, OR
 - THE SEWER AND WATER MAIN MAY BE INSTALLED IN THE SAME TRENCH WITH THE WATER MAIN PLACED ON A BENCH OF UNDISTURBED EARTH, AND
 - IN EITHER CASE, THE CROWN OF THE SEWER SHALL BE AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN.
- IN SITUATIONS WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, THE FOLLOWING PROTECTION SHALL BE PROVIDED:
- ENCASING OF THE SEWER PIPE IN CONCRETE (MIN. 6 INCH THICKNESS) OR A CARRIER PIPE FOR AT LEAST 10 FEET EITHER SIDE OF THE AREA NOT COMPLYING WITH THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION, OR
 - DESIGN AND CONSTRUCTION OF THE SEWER EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON OR OTHER AWWA-APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE), AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS.
- B. SEWERS CROSSING WATER MAINS
- SEWERS CROSSING OVER WATER MAINS SHOULD BE AVOIDED, BUT IF CONDITIONS WARRANT THIS SITUATION, THEN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE. SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE SEWER. RELOCATION OF AN EXISTING WATER MAIN MAY BE NECESSARY TO ACHIEVE THIS VERTICAL SEPARATION. RELOCATED WATER MAIN SHALL BE CONSTRUCTED OF AN AWWA-APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE AND DESIGNED FOR THE REQUIRED WATER SERVICE PRESSURE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE CONDITIONS PREVENT AN 18 INCH VERTICAL SEPARATION FROM BEING MAINTAINED, THE FOLLOWING METHODS SHALL BE SPECIFIED:
- THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER MAIN PIPE (CEMENT LINED DUCTILE IRON PIPE, PVC OR OTHER AWWA-APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE) FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS, OR
 - EITHER THE WATERMAIN OR THE SEWER MAY BE ENCASED IN CONCRETE (MIN. 6 INCH THICKNESS) OR A CARRIER PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE DESIGNED AND CONSTRUCTED ON MATERIALS WHICH ARE SATISFACTORY TO THE DIVISION, OR
 - ANY OTHER METHODS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER, WHICH ENSURE ADEQUATE WATER TIGHTNESS AND ARE SATISFACTORY TO THE DIVISION.

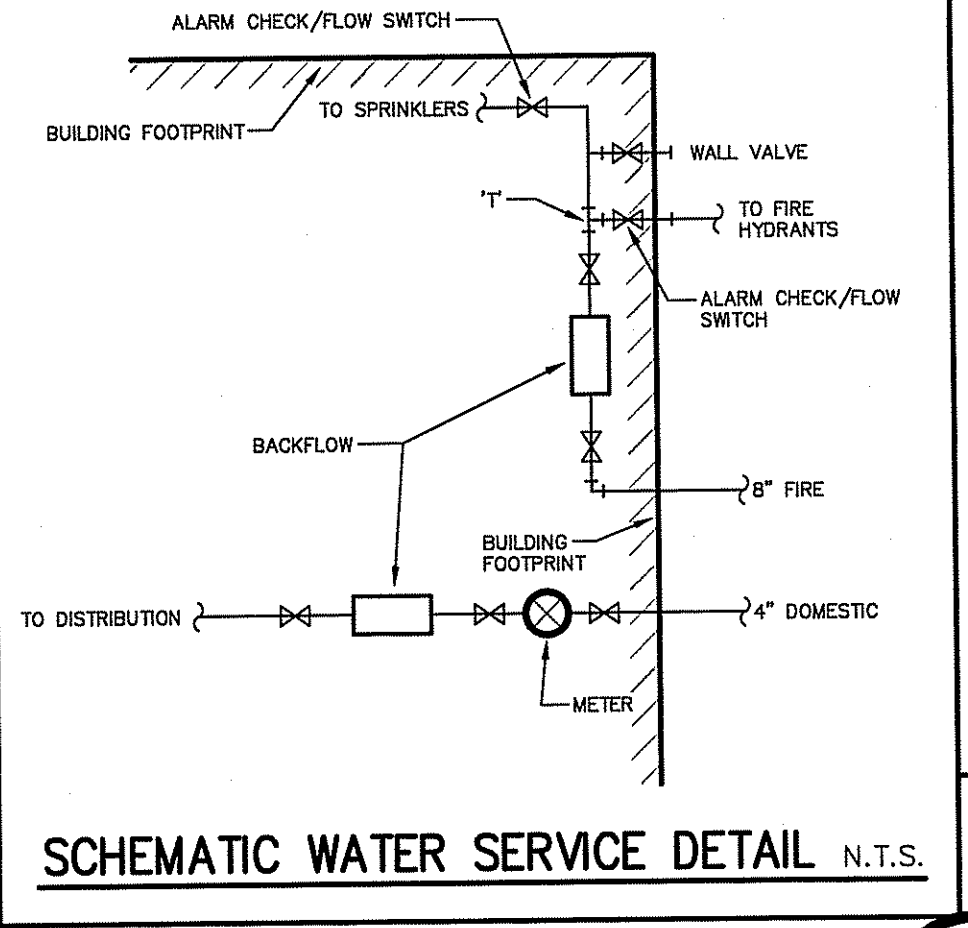


SEWER FORCE MAIN TRENCH DETAIL N.T.S.

- LEAKAGE AND PRESSURE TESTING FOR SEWER FORCE MAINS AND WATERMANS**
- GENERAL**
HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED SEWER FORCE MAIN AND WATERMAIN PIPELINE IN ACCORDANCE WITH AWWA C500, UNITED WATER, THE TOWN OF SOUTH KINGSTOWN, AND AS SPECIFIED BELOW.
THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR TESTING.
 - TESTING PROCEDURES**
ALL AIR SHALL BE EXPELLED AT THE HIGH POINTS AND THE PIPELINE SLOWLY FILLED WITH POTABLE WATER.
THE INTERNAL PRESSURE SHALL BE BUILT UP TO 150 PSI AND MAINTAINED FOR A PERIOD OF NOT LESS THAN ONE (1) HOUR.
ALL LEAKS IN THE PIPELINE SHALL BE STOPPED; CRACKED OR DEFECTIVE PIPE, FITTINGS OR ACCESSORIES SHALL BE REMOVED AND REPLACED WITH NEW BY THE CONTRACTOR.
THE PIPELINE SHALL BE RETESTED AS MAY BE REQUIRED AND NECESSARY UNTIL THE LEAKAGE FALLS WITHIN THE ALLOWABLE DETERMINED FOR THE PIPE NETWORK, AT WHICH TIME THE PIPELINE MAY BE CONSIDERED READY FOR:
a. WATERMANS - DISINFECTION STEP
b. SEWER FORCE MAIN - READY FOR USE



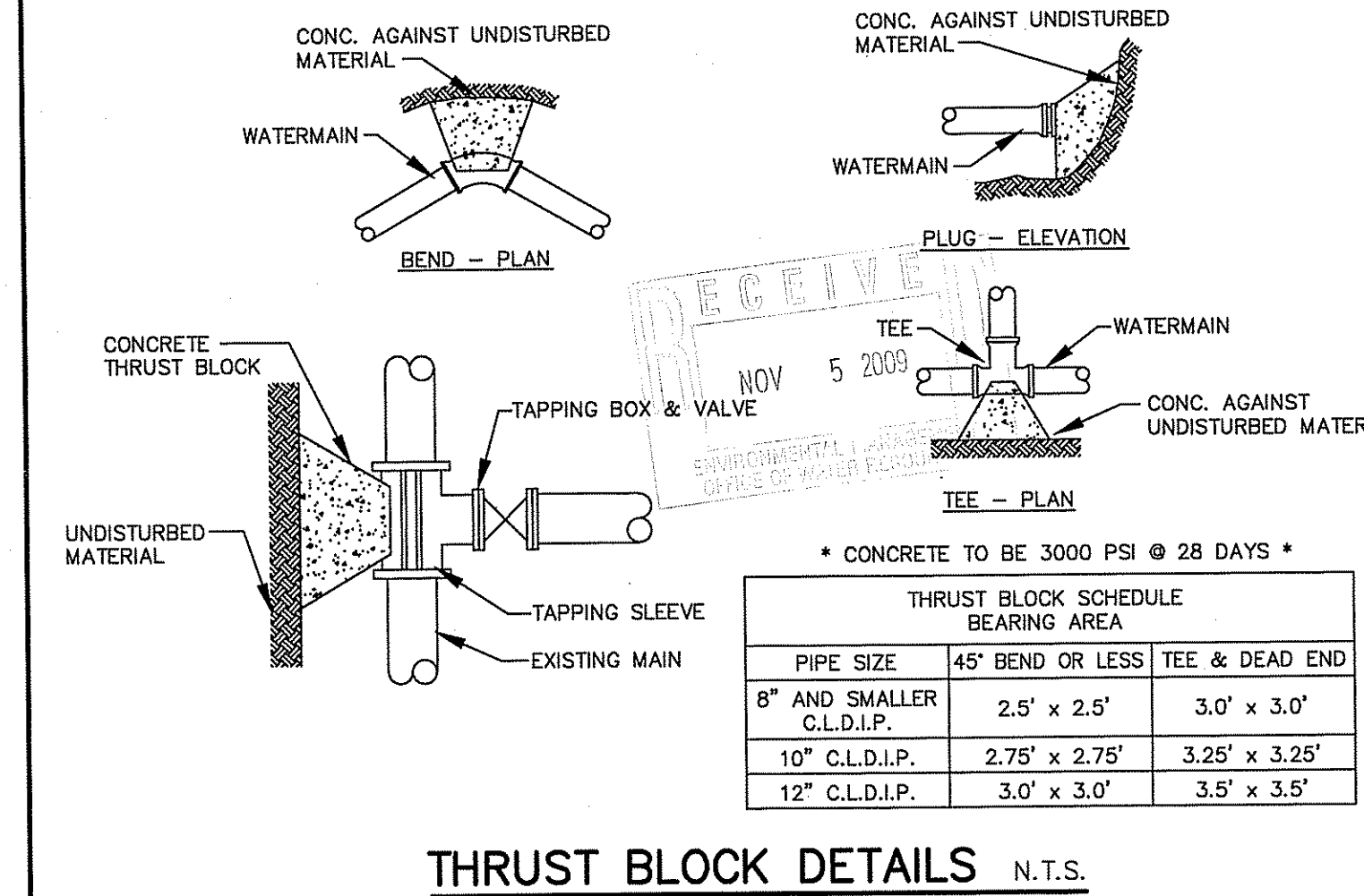
TYPICAL WATER SERVICE (GREATER THAN 1.5") N.T.S.



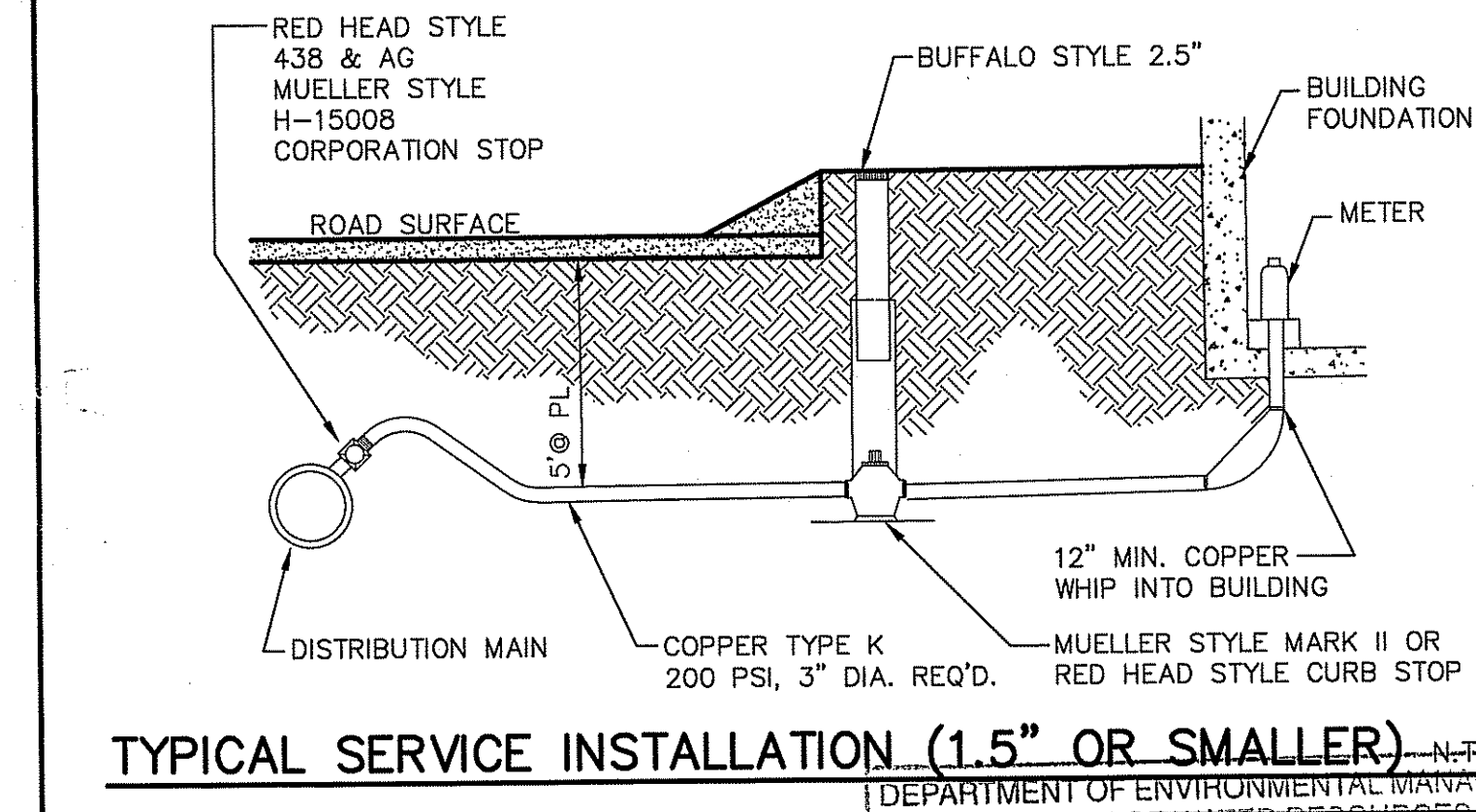
SCHEMATIC WATER SERVICE DETAIL N.T.S.

WATER INSTALLATION NOTES

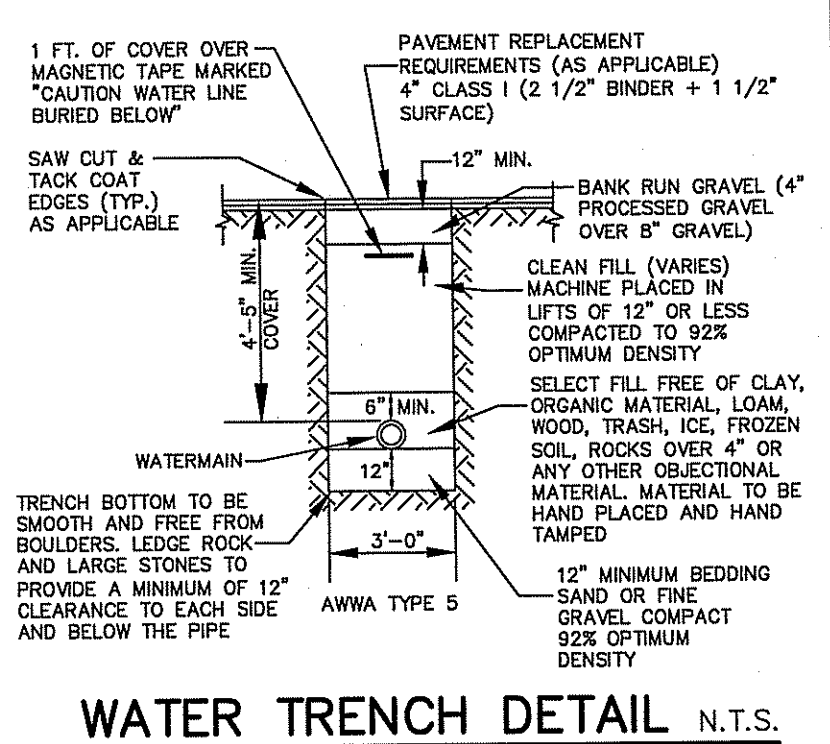
- INSTALLATION OF WATER MAIN SHALL CONFORM TO THE PROVIDENCE WATER SUPPLY BOARD AND IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION INSTALLATION MANUAL.
- DISTRIBUTION PIPING SHALL BE CL 52 DUCTILE IRON, DOUBLE CEMENT LINED, WITH PUSH ON JOINTS. PIPE SHALL MEET ANSI/AWWA C151 A21.51. JOINTS SHALL MEET ANSI/AWWA/C111/A21.11.
- FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT CL350 CEMENT MORTAR LINED AND MEET AWWA/C153/A21.53. MECHANICAL JOINTS SHALL MEET ANSI/AWWA/C111/A21.11 AMERICAN MANUFACTURER ONLY.
- VALVES UP TO 12" DIAMETER SHALL BE MECHANICAL JOINT, RESILIENT SEATED STYLE AND OPEN RIGHT.
- PRESSURE TEST OF THE WATER SYSTEM SHALL BE 1.5 TIMES THE MAXIMUM WORKING PRESSURE OR 250 PSI. PROVIDENCE WATER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF SCHEDULED TEST.
- CHLORINATION OF SYSTEM AND SAMPLING SHALL CONFORM TO PROVIDENCE WATER STANDARDS.
- PRIOR TO CONNECTION TO THE PROVIDENCE WATER SYSTEM, ALL SERVICES SHALL BE PRESSURE TESTED AND CHLORINATED WITH A REPORT OF FINDINGS SUBMITTED TO PROVIDENCE WATER.
- METERS TO BE PROVIDED BY PROVIDENCE WATER.
- NOTIFY ENGINEER PRIOR TO COVERING OF WATER MAIN TO SURVEY AS-BUILT LOCATION AND TO COMPLETE REQUIRED AS-BUILT PLAN. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE CONTRACTOR.



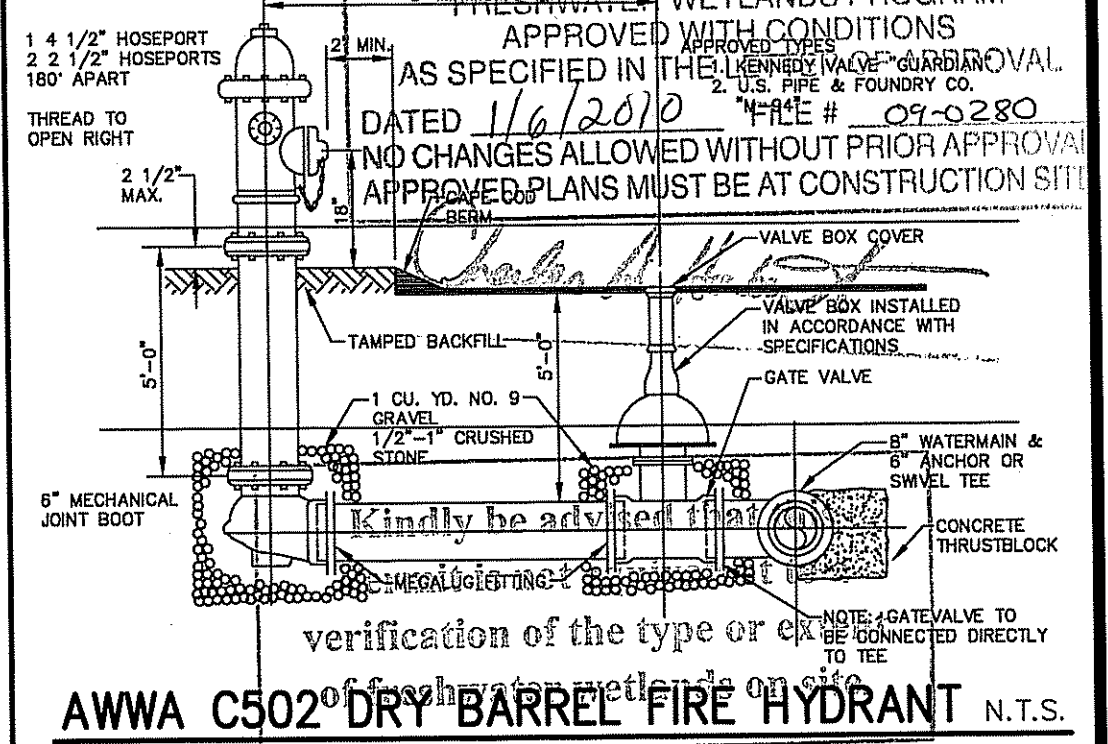
THRUST BLOCK DETAILS N.T.S.



TYPICAL SERVICE INSTALLATION (1.5" OR SMALLER) N.T.S.



WATER TRENCH DETAIL N.T.S.



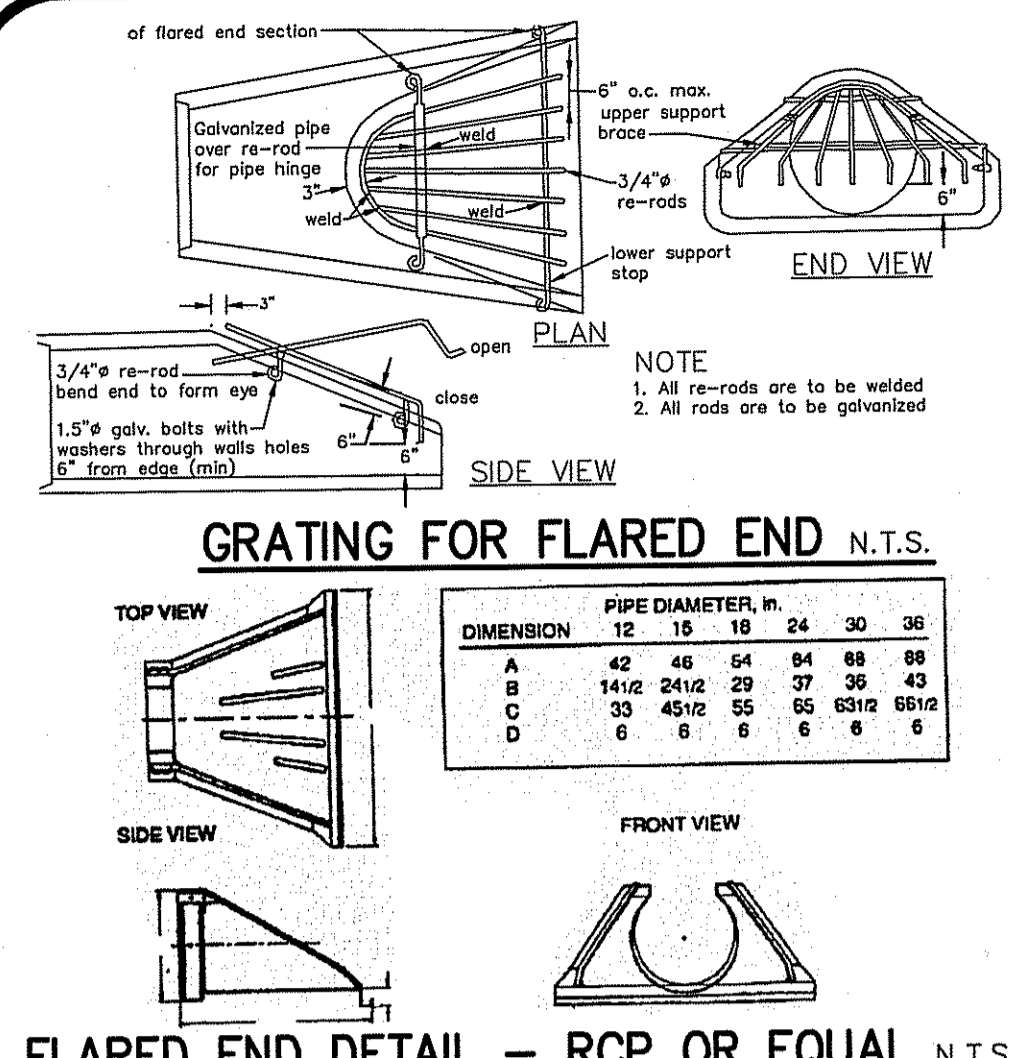
AWWA C502 DRY BARREL FIRE HYDRANT N.T.S.

Preliminary Submission

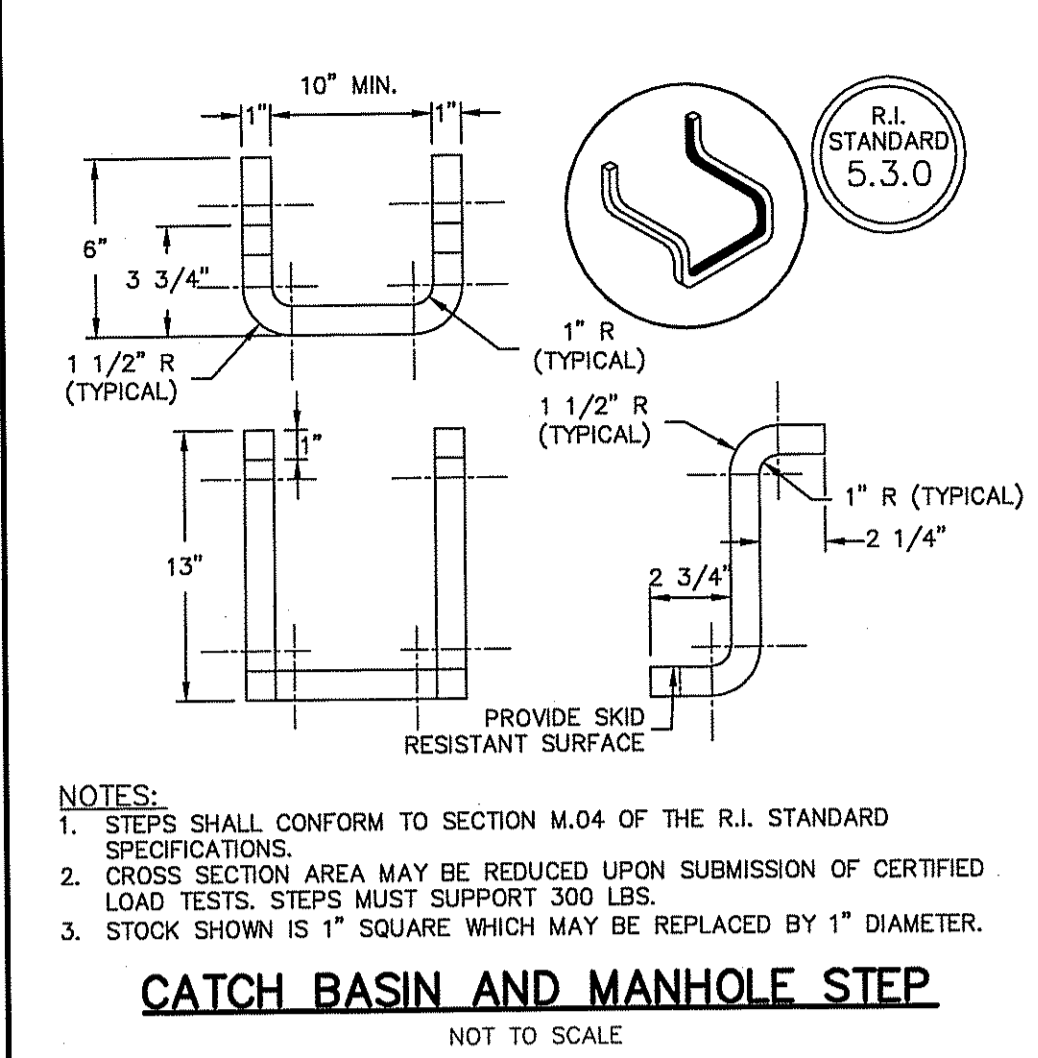
KEVIN C. MORIN
No. 7051
REGISTERED PROFESSIONAL ENGINEER
CIVIL

DETAIL SHEET
Westgate Shopping Center Re-construction
ASSESSOR'S PLAT 44/3 LOT 86
JOHNSTON, RHODE ISLAND
PREPARED BY
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ENGINEERING, SURVEYING AND PLANNING CONSULTANTS
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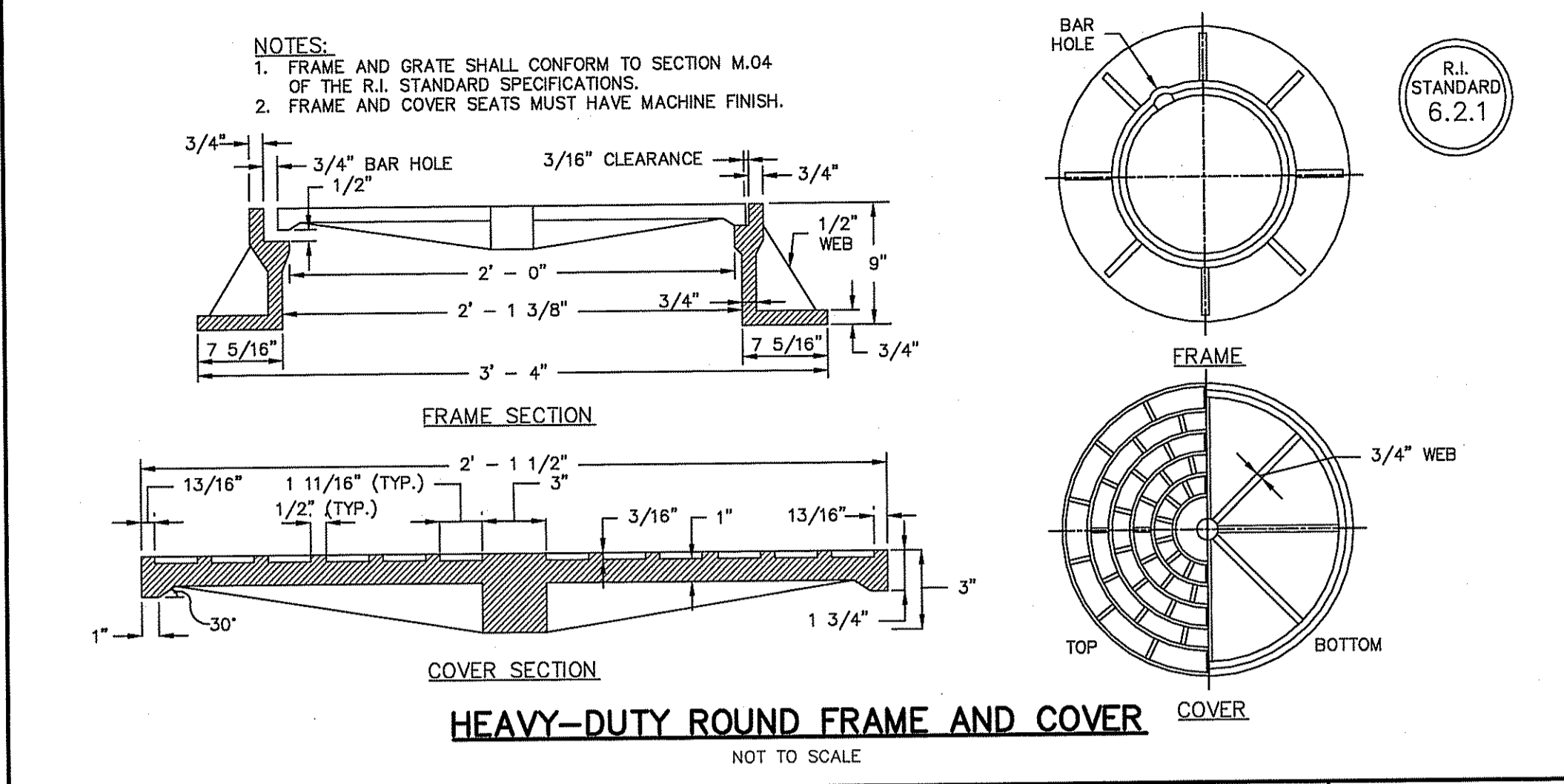
| NO. | DATE | DESCRIPTION | BY |
|-----|----------|----------------------------|--------|
| 2 | 10-21-09 | RIEM WETLANDS RESUBMISSION | T.L.L. |
| 1 | 7-28-09 | RIEM WETLANDS SUBMISSION | K.J.D. |
| 0 | 7-21-09 | RIEM WETLANDS SUBMISSION | K.J.D. |



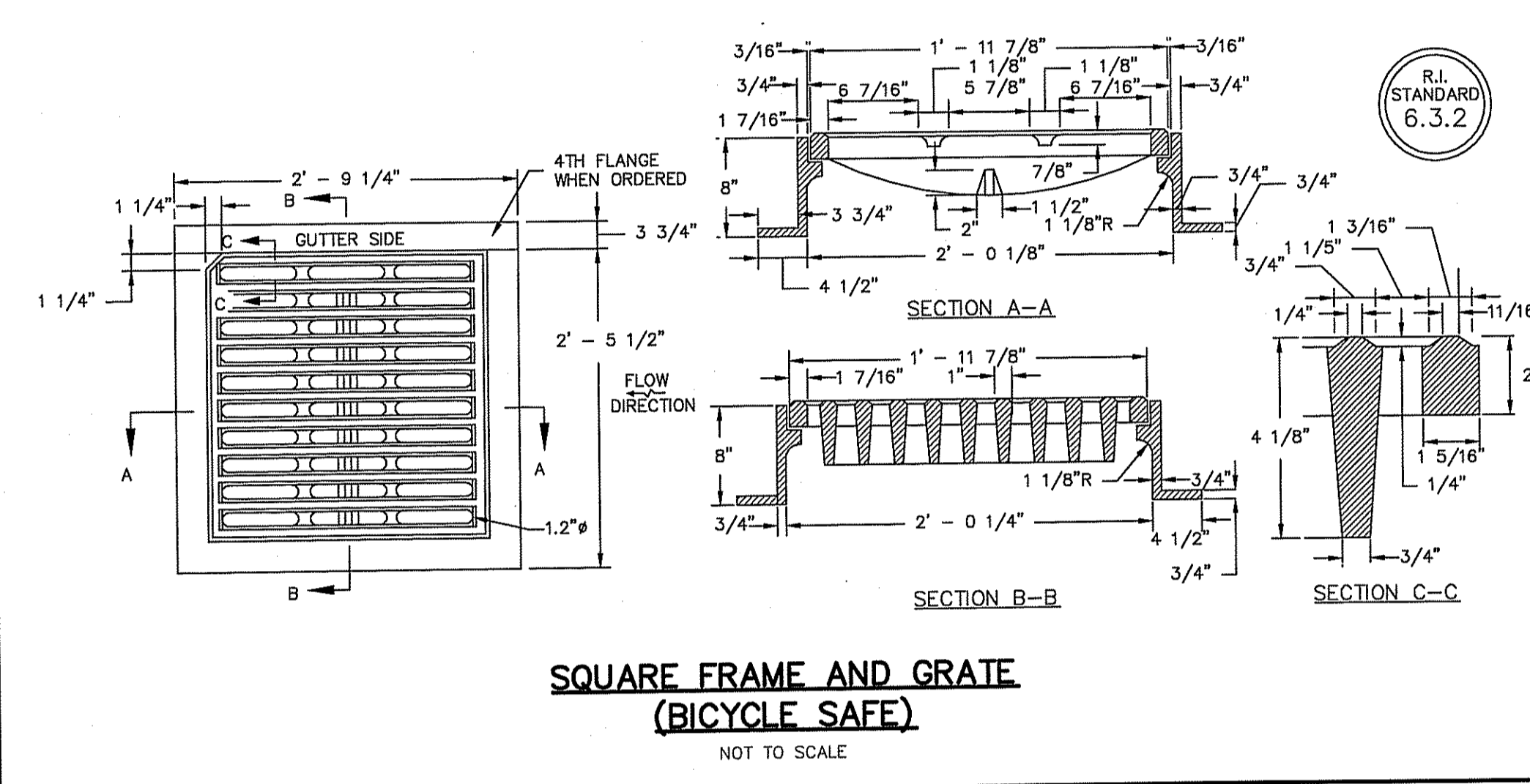
FLARED END DETAIL - RCP OR EQUAL N.T.S.



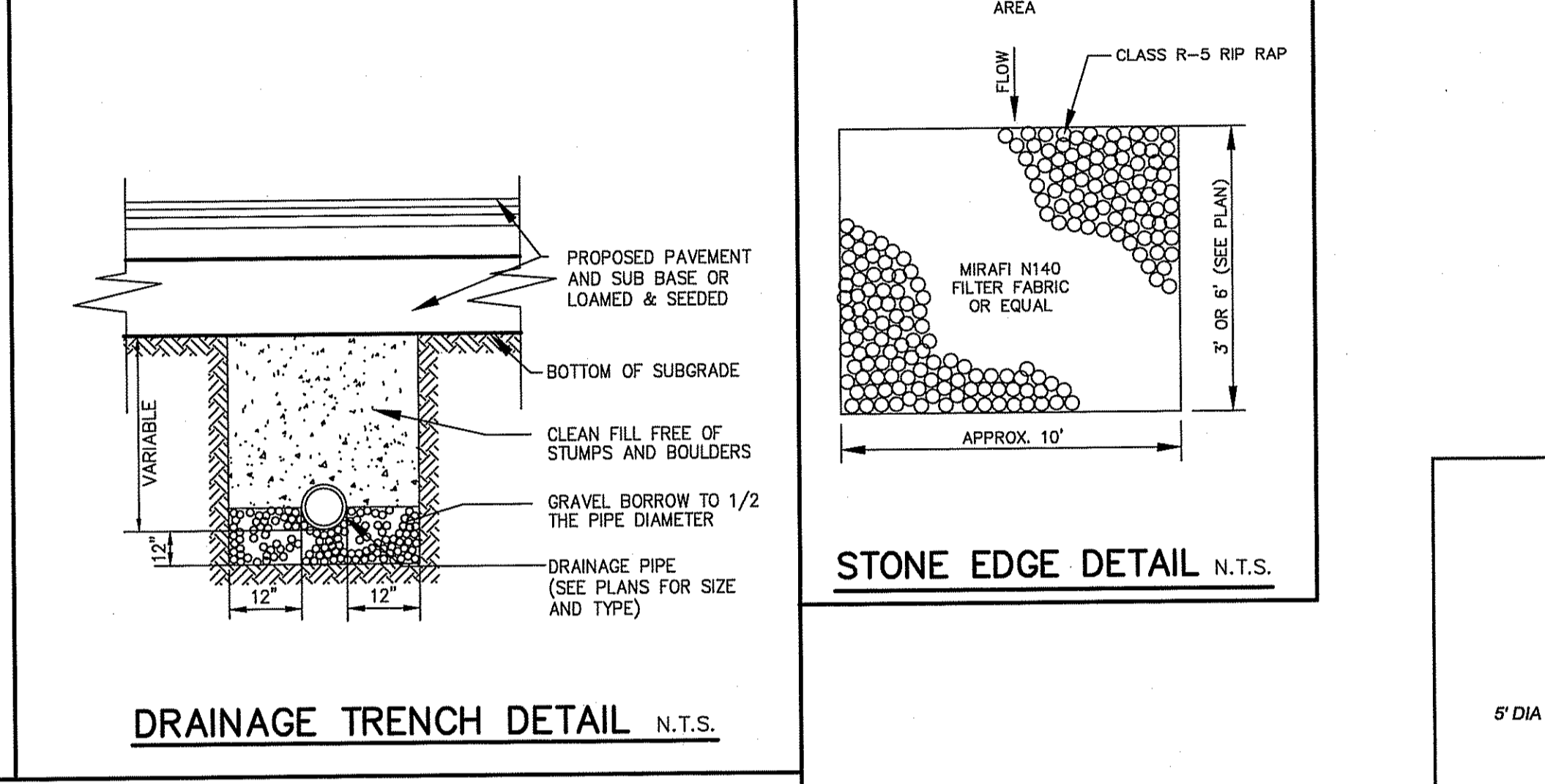
CATCH BASIN AND MANHOLE STEP NOT TO SCALE



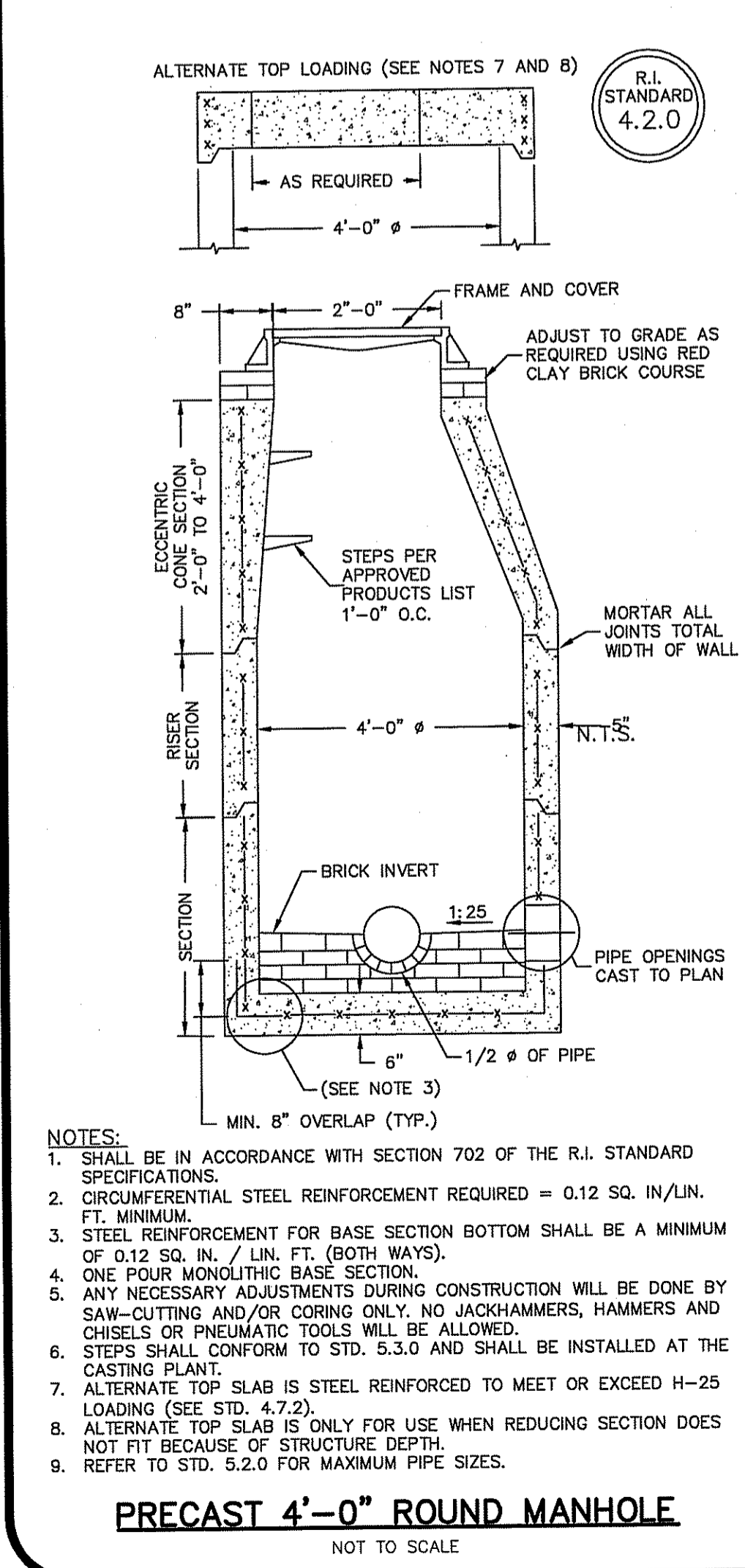
HEAVY-DUTY ROUND FRAME AND COVER NOT TO SCALE



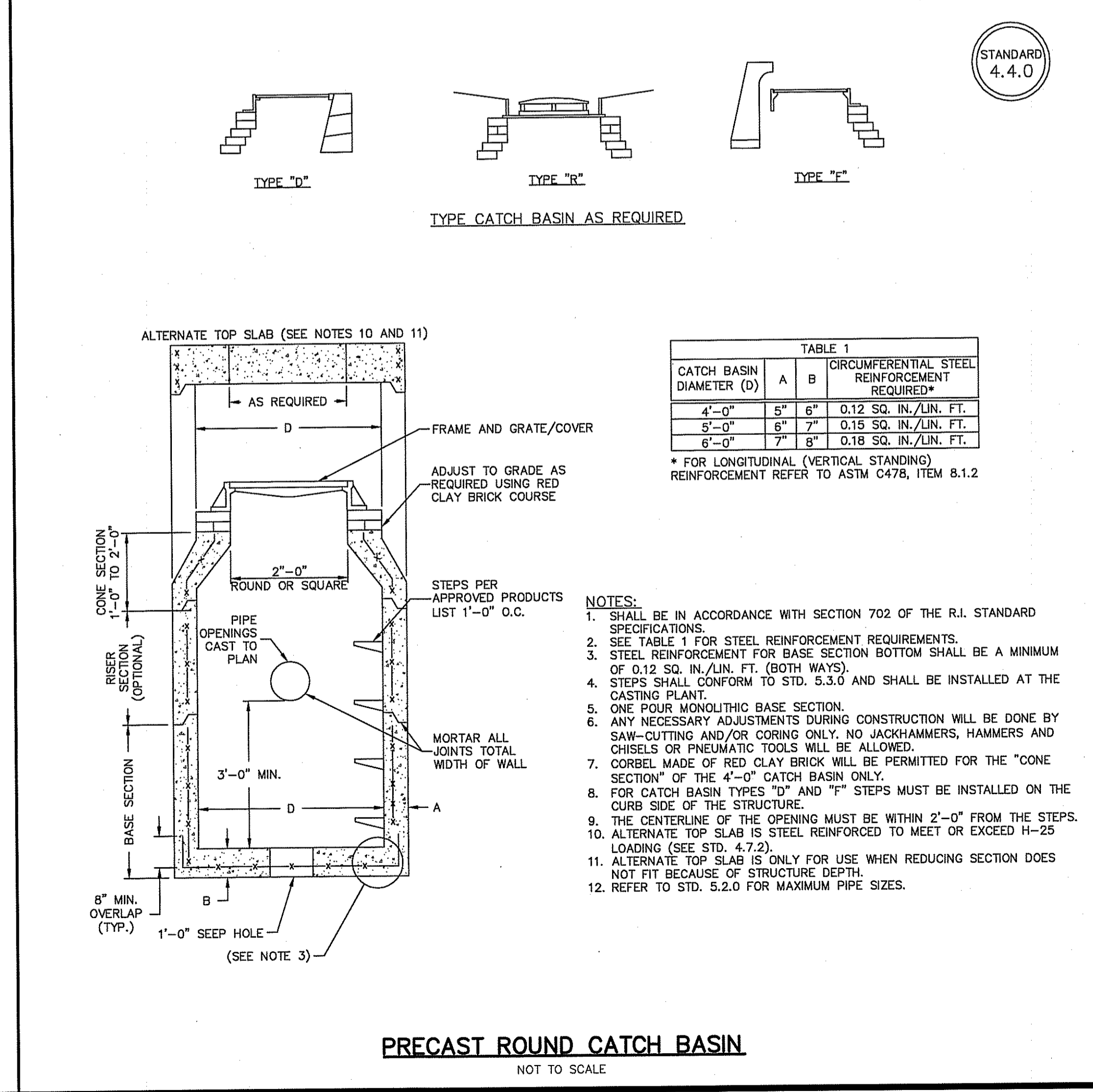
SQUARE FRAME AND GRATE (BICYCLE SAFE) NOT TO SCALE



DRAINAGE TRENCH DETAIL N.T.S.



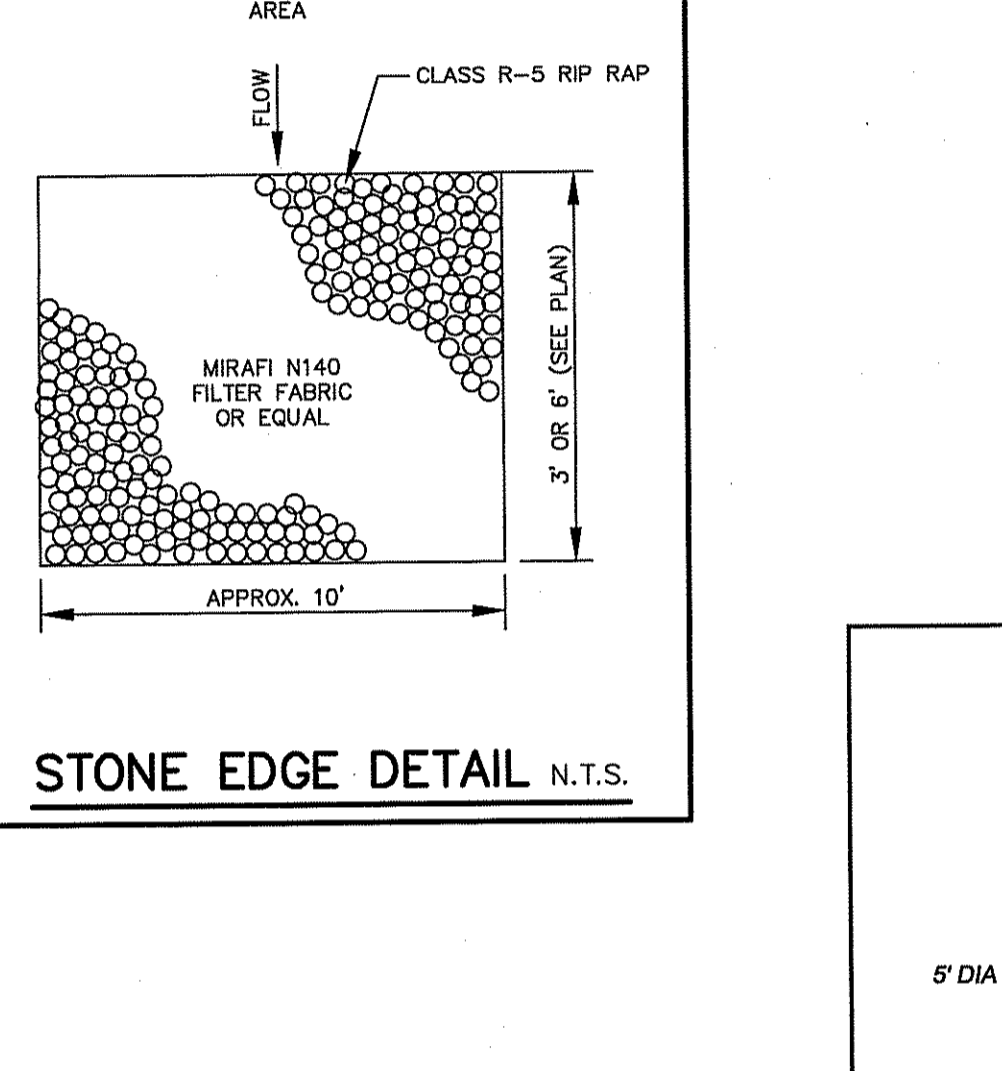
PRECAST 4'-0" ROUND MANHOLE NOT TO SCALE



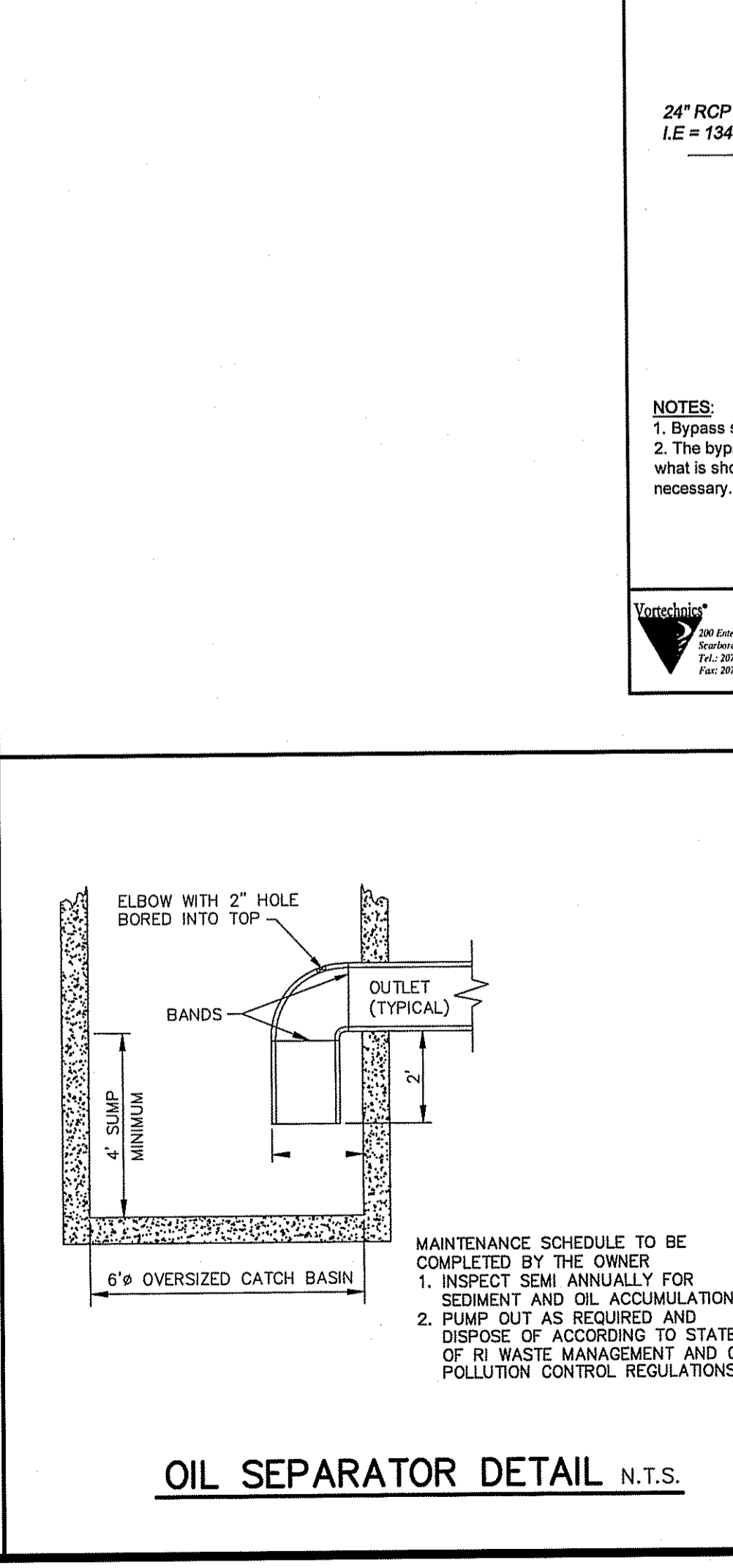
PRECAST ROUND CATCH BASIN NOT TO SCALE

| CATCH BASIN DIAMETER (D) | CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED* | |
|--------------------------|---|----|
| | A | B |
| 4'-0" | 5" | 6" |
| 5'-0" | 6" | 7" |
| 6'-0" | 7" | 8" |

* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2



STONE EDGE DETAIL N.T.S.



OIL SEPARATOR DETAIL N.T.S.

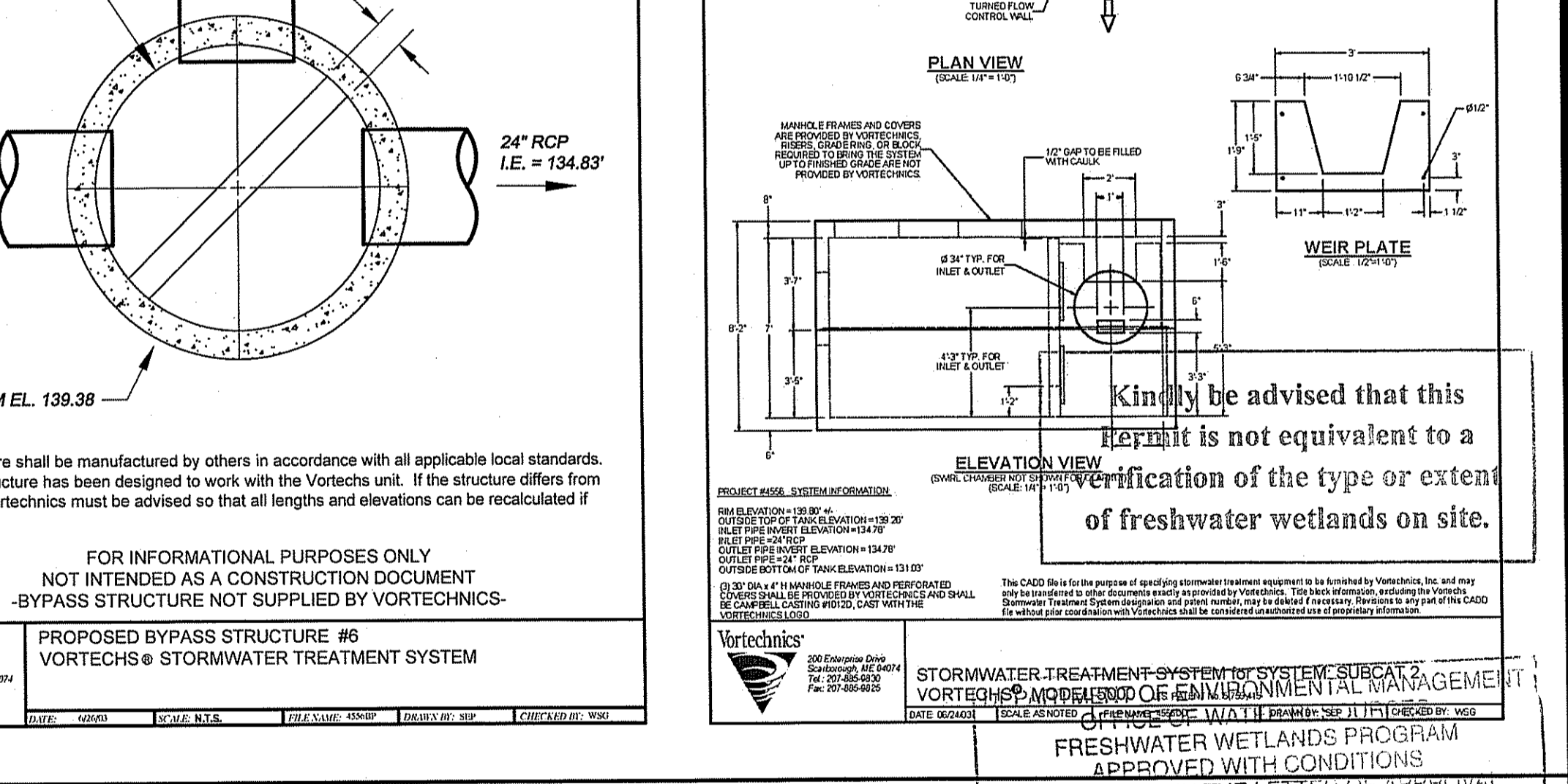
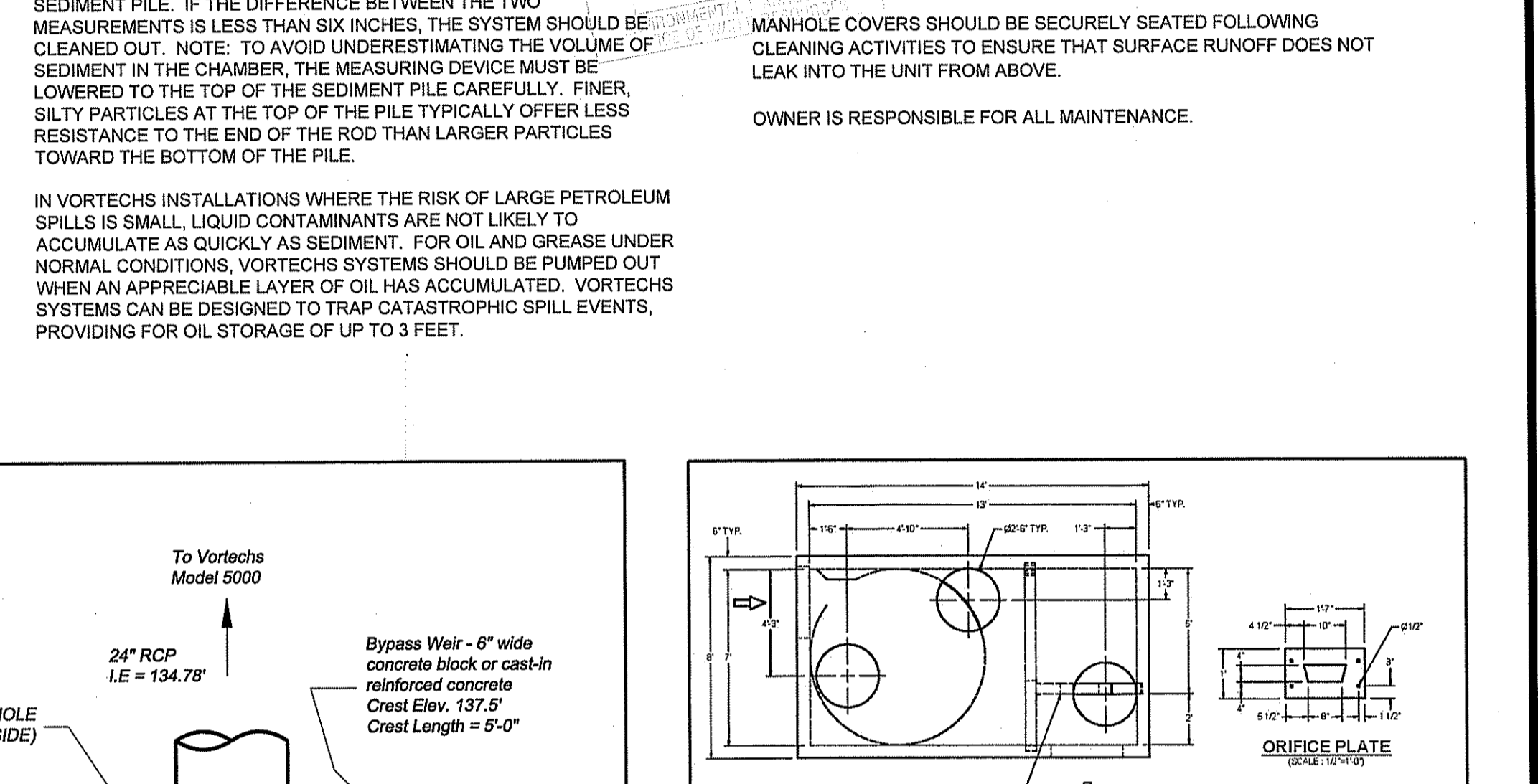
MAINTENANCE: Vortechs Stormwater Treatment System:

CLEANING
 CLEANOUT OF THE VORTECHS SYSTEM WITH A VACUUM TRUCK IS GENERALLY THE MOST EFFECTIVE AND CONVENIENT METHOD. ALTERNATE CLEANOUT METHODS INCLUDE THE USE OF ABSORBENT MATERIALS FOR OIL REMOVAL OR A "CLAMSHELL" DEVICE FOR SEDIMENT REMOVAL. CLEANOUT SHOULD NOT OCCUR WITHIN 6 HOURS OF A SIGNIFICANT RAIN EVENT, TO ALLOW FOR THE ENTIRE COLLECTION SYSTEM TO DRAIN DOWN.

INSPECTION
 INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE AND IT IS ESILY PERFORMED. IN THE FIRST YEAR OF OPERATION, FREQUENT INSPECTIONS OF THE ACCUMULATED SEDIMENT VOLUME WITHIN THE GRIT CHAMBER ARE NECESSARY TO ESTABLISH AN APPROPRIATE MAINTENANCE PLAN. VORTECHS RECOMMENDS QUARTERLY (E.G. SEASONAL) INSPECTIONS DURING THE FIRST YEAR OF VORTECHS SYSTEM OPERATION. INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN THE WINTER MONTHS IN CLIMATES WHERE STREET SANDING OPERATIONS MAY LEAD TO RAPID ACCUMULATIONS, OR IN EQUIPMENT WASHDOWN AREAS. AFTER THE FIRST YEAR, THE INSPECTION SCHEDULE SHOULD BE REVIEWED AND MODIFIED ACCORDING TO EXPERIENCE. IT IS VERY USEFUL TO KEEP A RECORD OF EACH INSPECTION. A SIMPLE FORM FOR DOING SO IS PROVIDED.

FOR SEDIMENT, THE VORTECHS SYSTEM ONLY NEEDS TO BE CLEANED WHEN INSPECTION REVEALS THAT IT IS NEARLY FULL; SPECIFICALLY, WHEN SEDIMENT DEPTH HAS ACCUMULATED TO WITHIN SIX INCHES OF THE DRY-WEATHER WATER LEVEL. THIS DETERMINATION CAN BE MADE BY TAKING 2 MEASUREMENTS WITH A STADIA ROD OR SIMILAR MEASURING DEVICE: ONE MEASUREMENT IS THE DISTANCE FROM THE MANHOLE OPENING TO THE WATER SURFACE, AND THE OTHER IS THE DISTANCE FROM THE MANHOLE OPENING TO THE TOP OF THE SEDIMENT PILE. IF THE DIFFERENCE BETWEEN THE TWO MEASUREMENTS IS LESS THAN SIX INCHES, THE SYSTEM SHOULD BE CLEANED OUT. NOTE: TO AVOID UNDERESTIMATING THE VOLUME OF SEDIMENT IN THE CHAMBER, THE MEASURING DEVICE MUST BE LOWERED TO THE TOP OF THE SEDIMENT PILE CAREFULLY. FINER, SILTY PARTICLES AT THE TOP OF THE PILE TYPICALLY OFFER LESS RESISTANCE TO THE END OF THE ROD THAN LARGER PARTICLES TOWARD THE BOTTOM OF THE PILE.

IN VORTECHS INSTALLATIONS WHERE THE RISK OF LARGE PETROLEUM SPILLS IS SMALL, LIQUID CONTAMINANTS ARE NOT LIKELY TO ACCUMULATE AS QUICKLY AS SEDIMENT. FOR OIL AND GREASE UNDER NORMAL CONDITIONS, VORTECHS SYSTEMS SHOULD BE PUMPED OUT WHEN AN APPRECIABLE LAYER OF OIL HAS ACCUMULATED. VORTECHS SYSTEMS CAN BE DESIGNED TO TRAP CATASTROPHIC SPILL EVENTS, PROVIDING FOR OIL STORAGE OF UP TO 3 FEET.



VORTECHS(TM) STORMWATER SYSTEM DETAILS

Preliminary Submission

KEVIN C. MORIN
 No. 7051
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

Westgate Shopping Center Re-construction
 ASSESSOR'S PLAT 44/3 LOT 86
 JOHNSTON, RHODE ISLAND

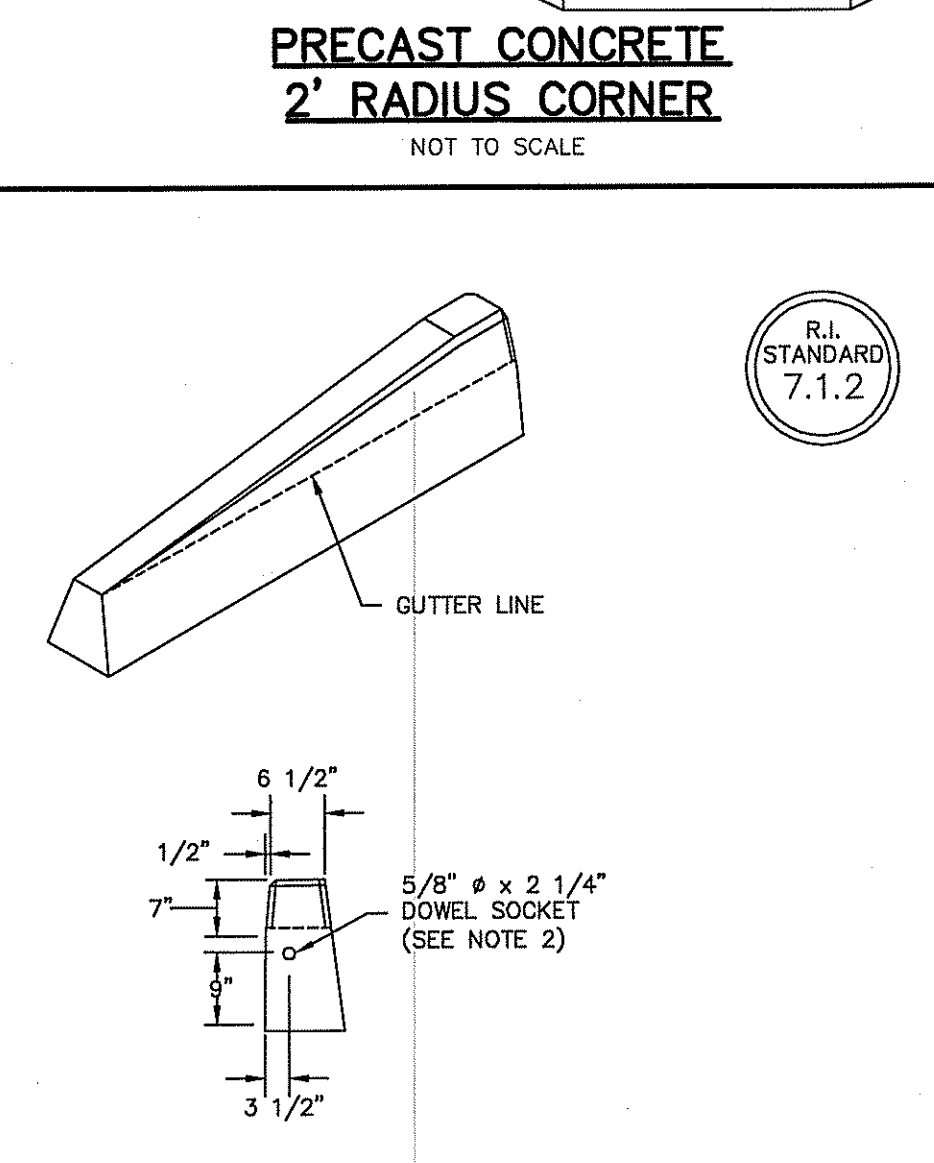
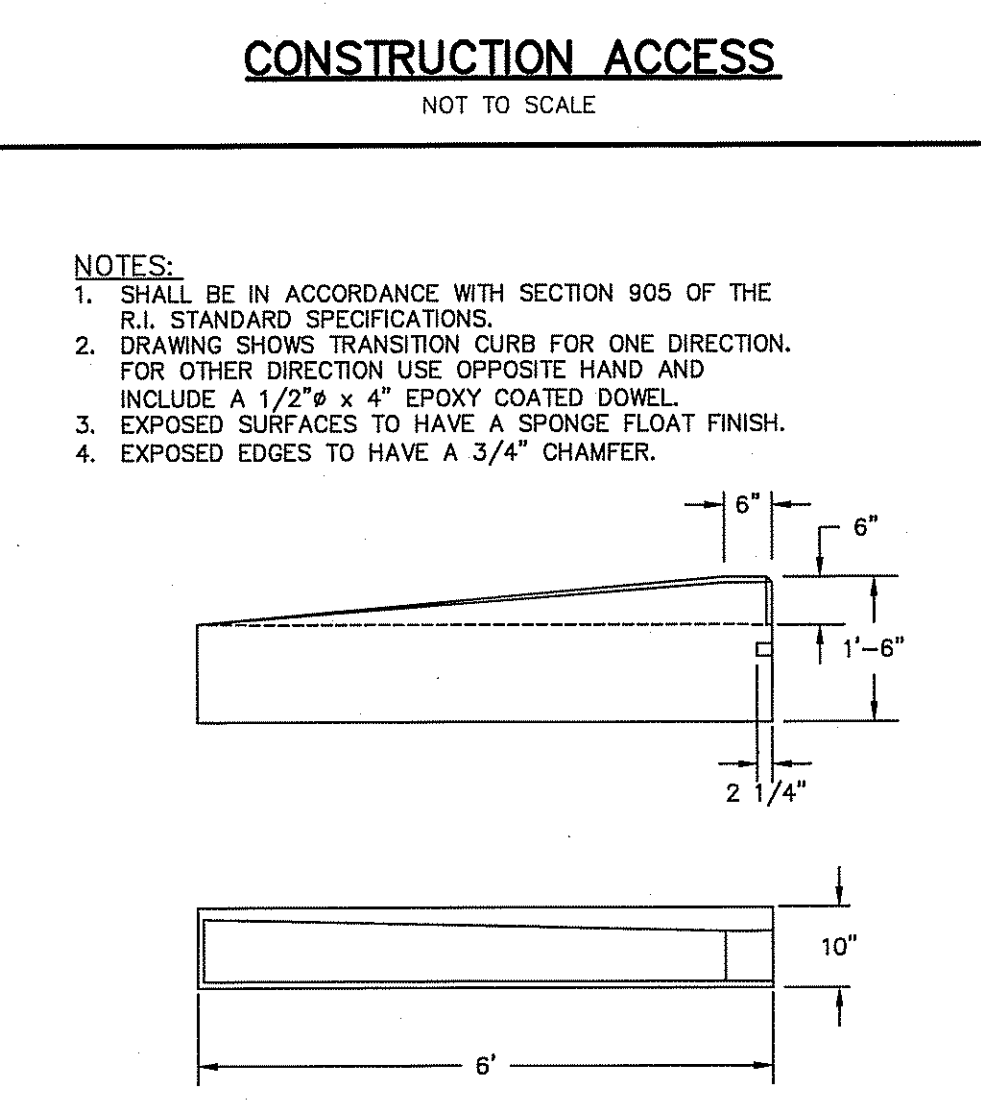
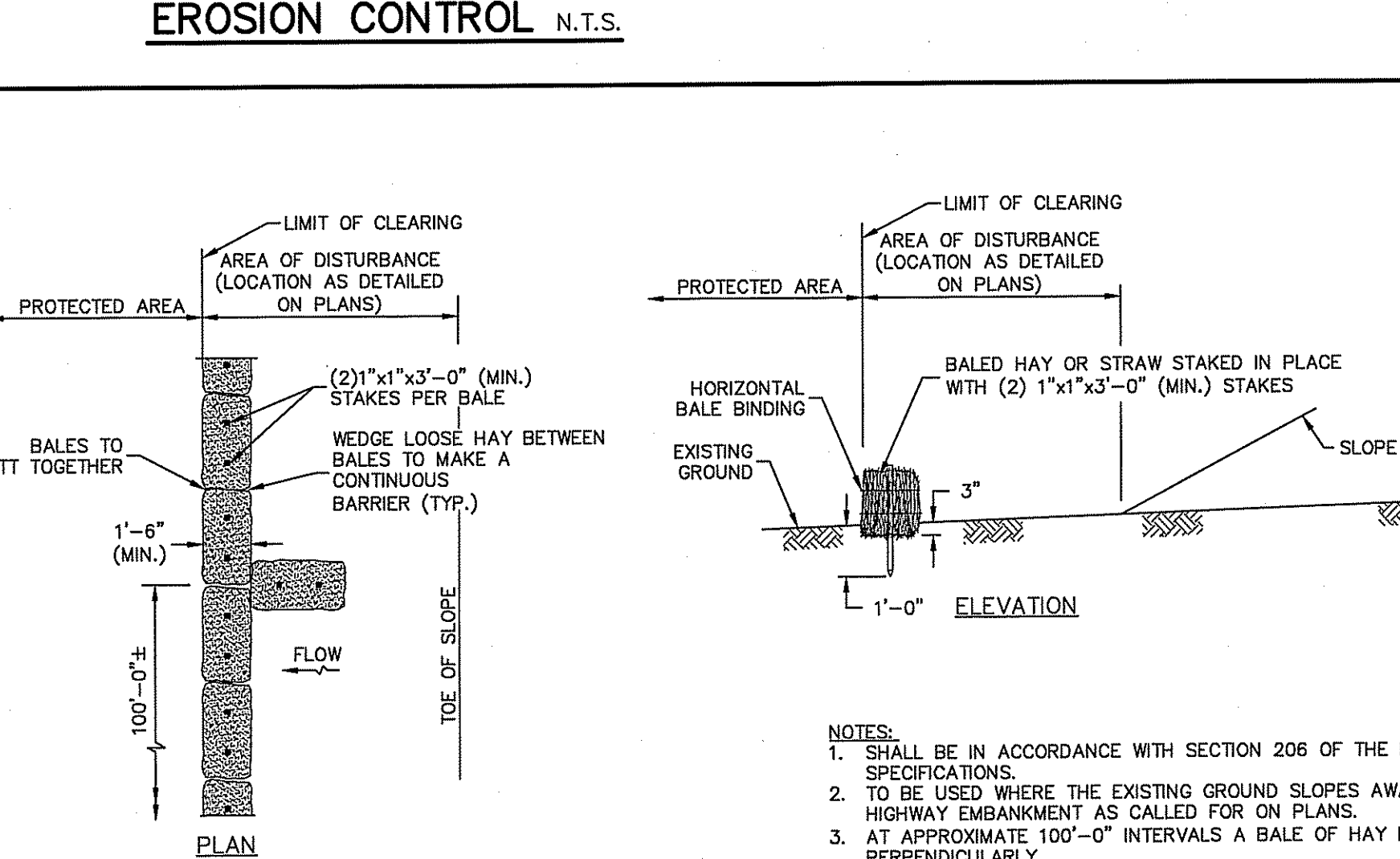
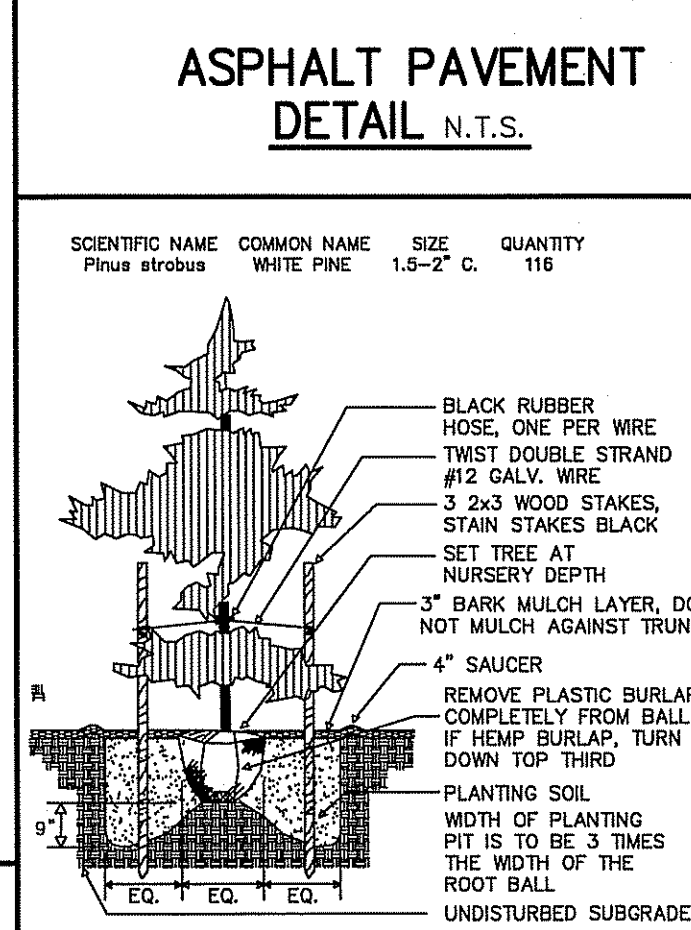
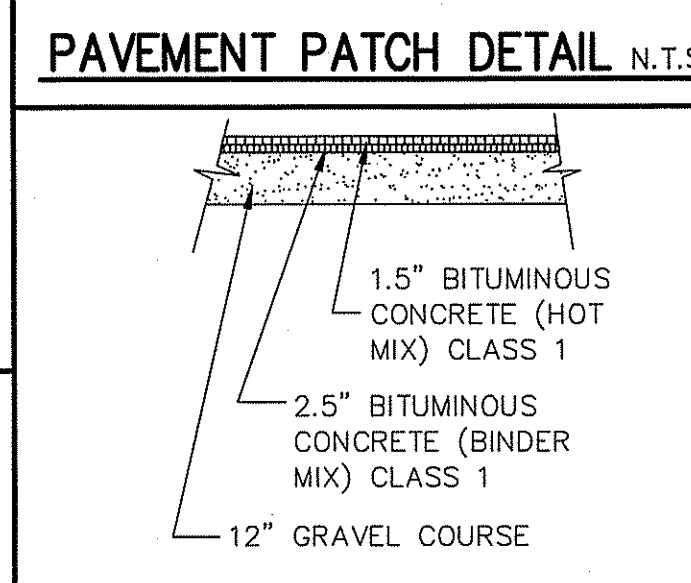
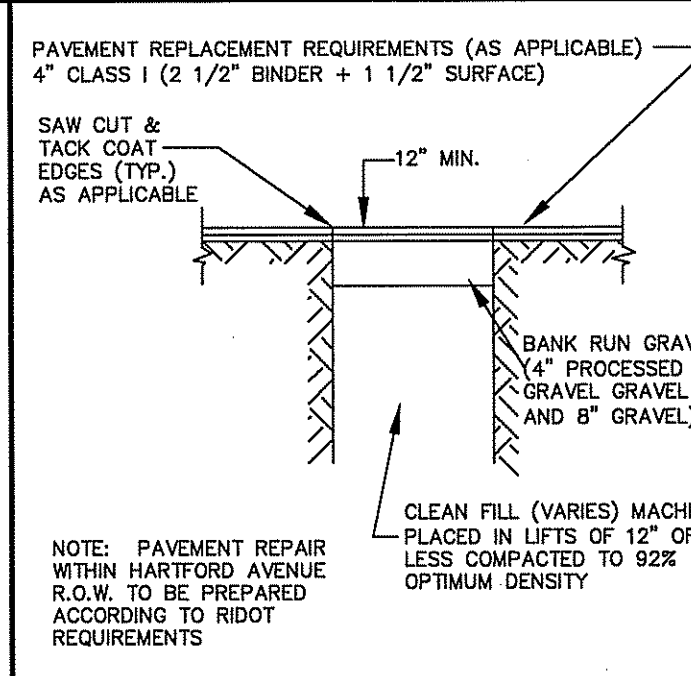
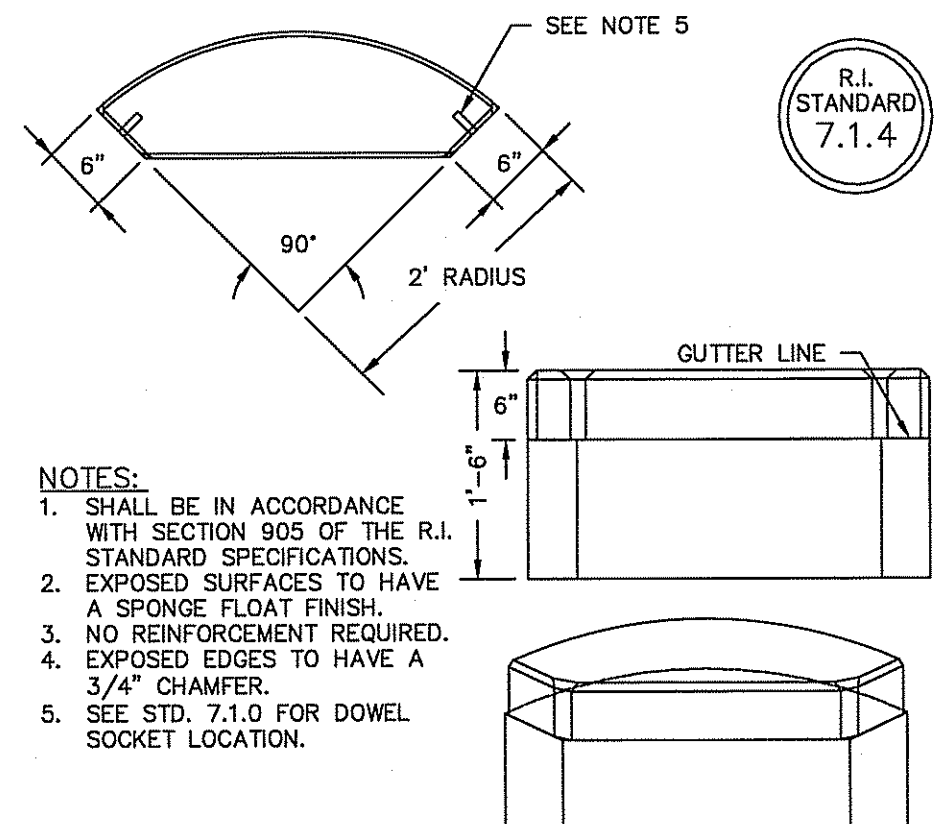
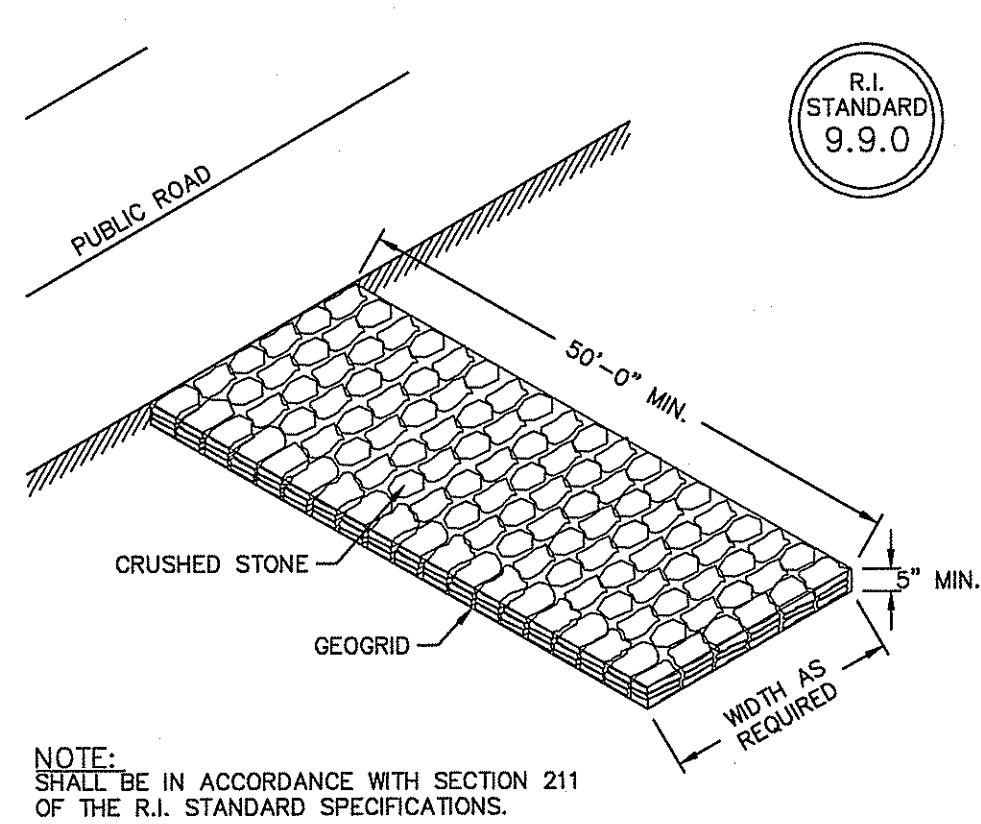
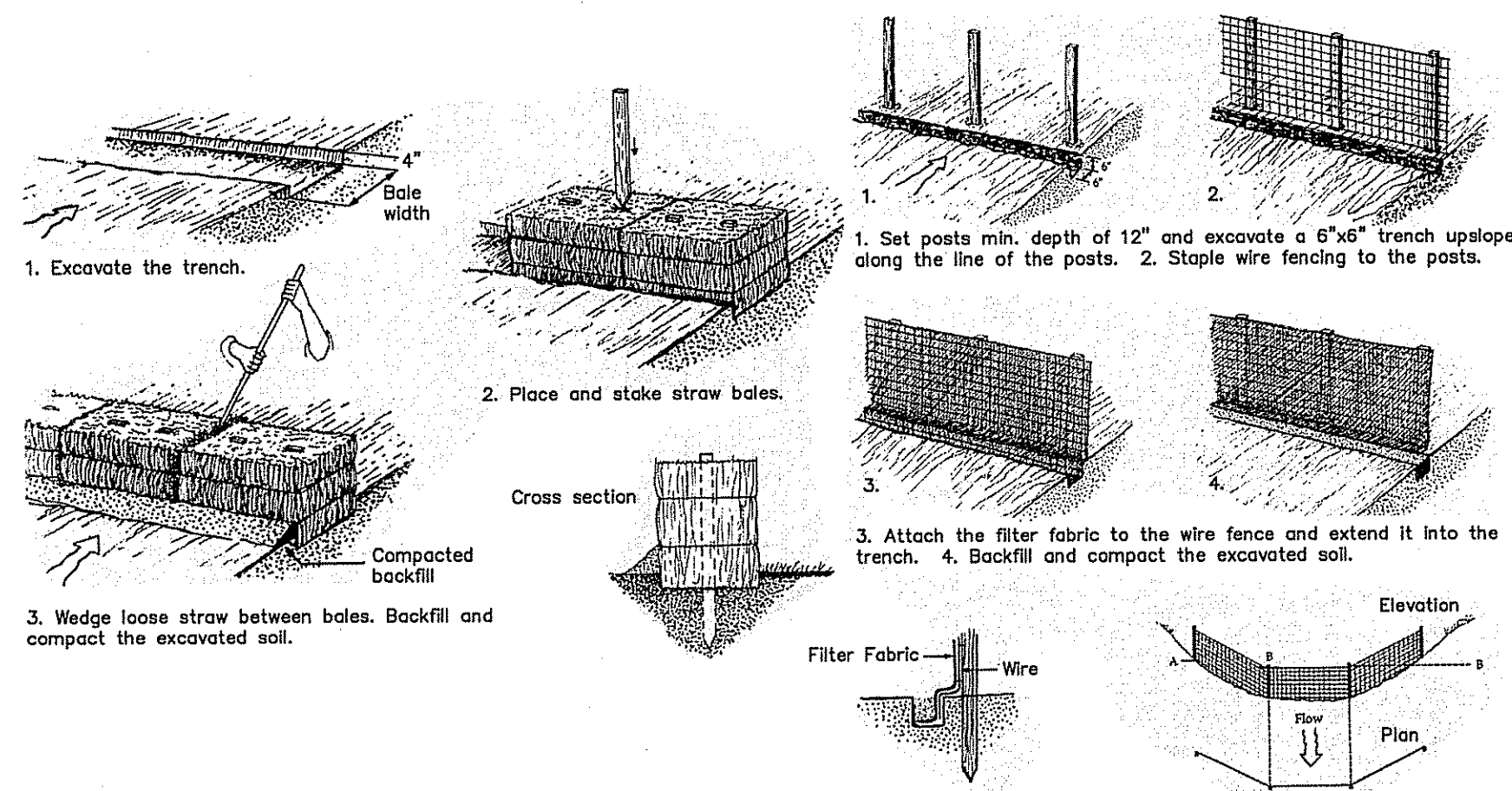
PREPARED BY
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JULY, 2003
 DWN. BY: K.J.D.

SHEET 10 OF 12

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|-----------------------------|--------|
| 2 | 10-21-09 | RIDEM WETLANDS RESUBMISSION | T.L.L. |
| 1 | 1-28-08 | RI DOT P&I SUBMISSION | K.J.D. |
| 0 | 7-21-03 | RIDEM WETLANDS SUBMISSION | K.J.D. |



SEQUENCE AND STAGING OF LAND DISTURBING ACTIVITIES

- SURVEY AND STAKE LIMIT OF SEDIMENTATION BARRIERS. PLACE SEDIMENTATION BARRIERS (HAYBALES OR SILT FENCE) AS SHOWN ON PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE LIMIT OF SEDIMENTATION BARRIERS.
- BEGIN DEMOLITION OF EXISTING BUILDINGS AND ASSOCIATED INFRASTRUCTURE.
- UPON COMPLETION OF DEMOLITION, SURVEY AND STAKE CURBING OF THE PROPOSED PARKING AREA, VORTEXES(M) SYSTEM, DRAINAGE LINE(S), AND BARRIERS.
- INSTALL UTILITIES AND DRAINAGE INCLUDING GAS LINE, WATER, SEWER AND DRAINAGE PIPE, AND VORTEXES(M) MODEL 5000. IMMEDIATELY PLACE THE RIP-RAP AT THE DISCHARGE POINT AND SEED DISTURBED AREAS.
- BEGIN BUILDING LAYOUT, CLEARING AND GRADING, AND PARKING LOT SURFACING.
- FINISH BUILDING & PARKING LOT CONSTRUCTION.
- FINISH LANDSCAPING AND PERMANENT STRUCTURING.
- CLEAN AND FLUSH DRAINAGE SYSTEM, STRUCTURES, AND VORTEXES(M) SYSTEMS.
- REMOVE ALL TEMPORARY EROSION AND CONTROL MEASURES ONCE PERMANENT VEGETATION HAS REACHED AN ACCEPTABLE STAND.
- CONSTRUCTION TO OCCUR WHEN NECESSARY PERMITS ARE OBTAINED.

ESTABLISHMENT OF VEGETATIVE COVER

- SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATION, M.20.
- THE TEMPORARY SEEDING DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

| TYPE | WINTER RYE | LIBS/AC |
|-------------------------------|------------|---------|
| WINTER RYE | 100 | |
| MILLET OR SUDAGRASS | 40 | |
| ANNUAL OR PERENNIAL RYE GRASS | 60 | |

THE SEEDING DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

| TYPE | % BY WEIGHT |
|-----------------------|-------------|
| FOWL MANURE | 20 |
| PANAMA MARSH MAT | 20 |
| JAPANESE MILLET | 20 |
| WILD RYE | 10 |
| FOX SEED | 10 |
| DEER TONGUE | 5 |
| BLACKOALF SWITCHGRASS | 5 |

THE GENERAL PURPOSE SEED MIX SHALL BE COMPRISED OF THE FOLLOWING:

| TYPE | % BY WEIGHT |
|---------------------|-------------|
| RED FESCUE | 75 |
| PERENNIAL BLUEGRASS | 15 |
| COLONIAL BENTGRASS | 5 |
| PERENNIAL RYEGRASS | 5 |

5. EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. LIME AND FERTILIZER AS REQUIRED BY SOIL TESTING OR COMPLIANCE WITH EXISTING CONDITIONS. THE SEED MIX SHALL BE INCULCATED WITHIN 24 HOURS BEFORE MOWING AND PLANTING, WITH APPROPRIATE MACHINERY FOR EACH VARIETY.

6. TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR A FIBER LINING. SLOPES OF PONDS SHALL BE TREATED WITH NORTH AMERICAN GREEN SIDD EROSION CONTROL BLANKETS. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER. HAY OR STRAW SHALL BE IN THE AMOUNT OF 2 TONS/ACRE.

7. ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.

8. THE CONTRACTOR SHALL MAINTAIN THE DRAINAGE SYSTEM THROUGHOUT CONSTRUCTION. THE ACCUMULATED SEDIMENTS IN THE CATCH BASINS SHALL BE REMOVED AND DRAINAGE PIPES FLUSHED BY THE CONTRACTOR AT THE END OF CONSTRUCTION.

9. THE OWNER IS RESPONSIBLE FOR THE LONG TERM MAINTENANCE OF THE DRAINAGE SYSTEM INCLUDING TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

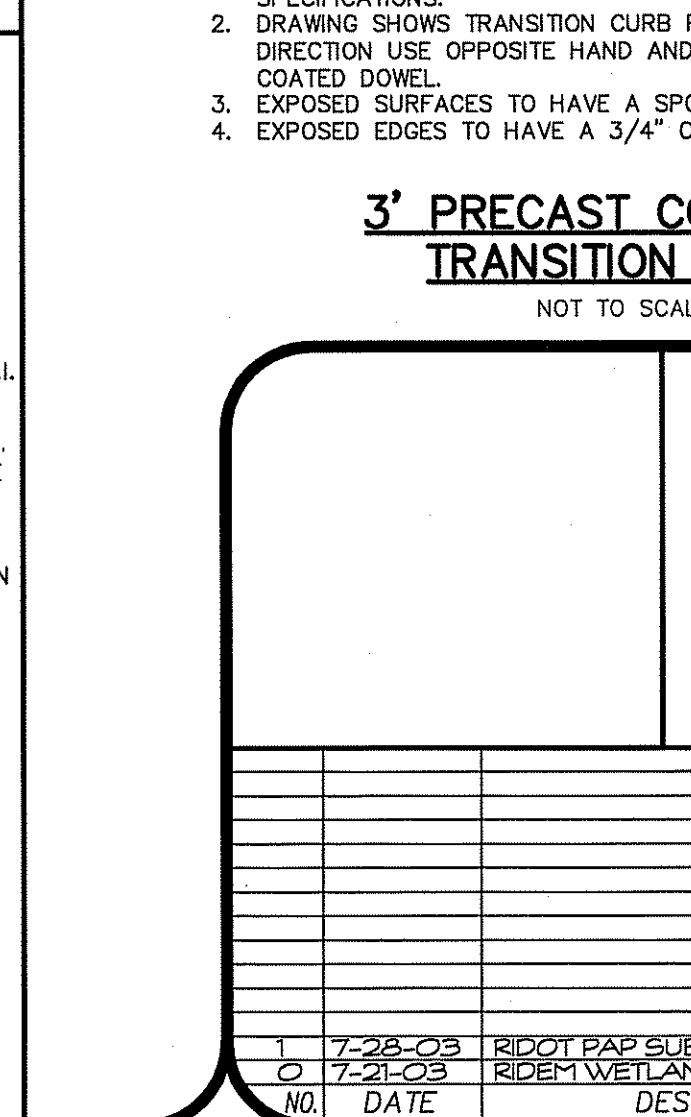
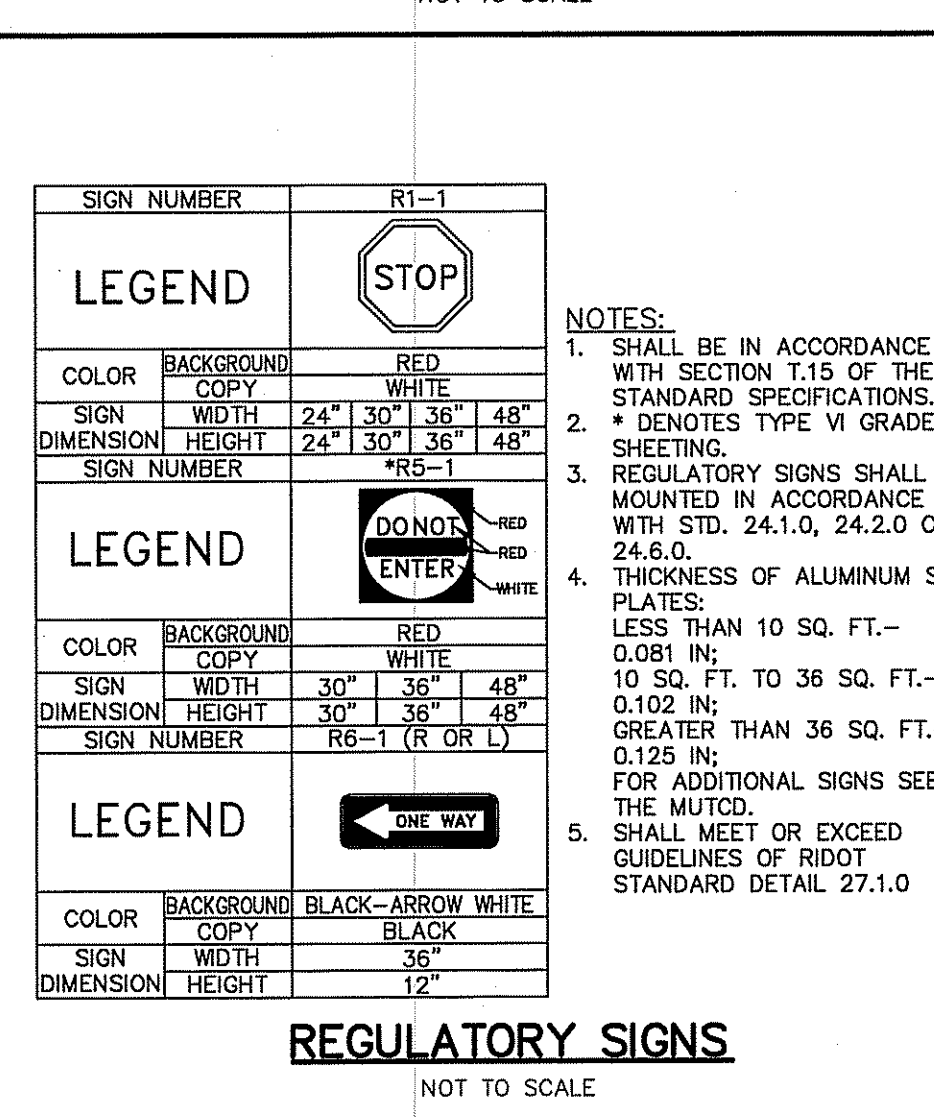
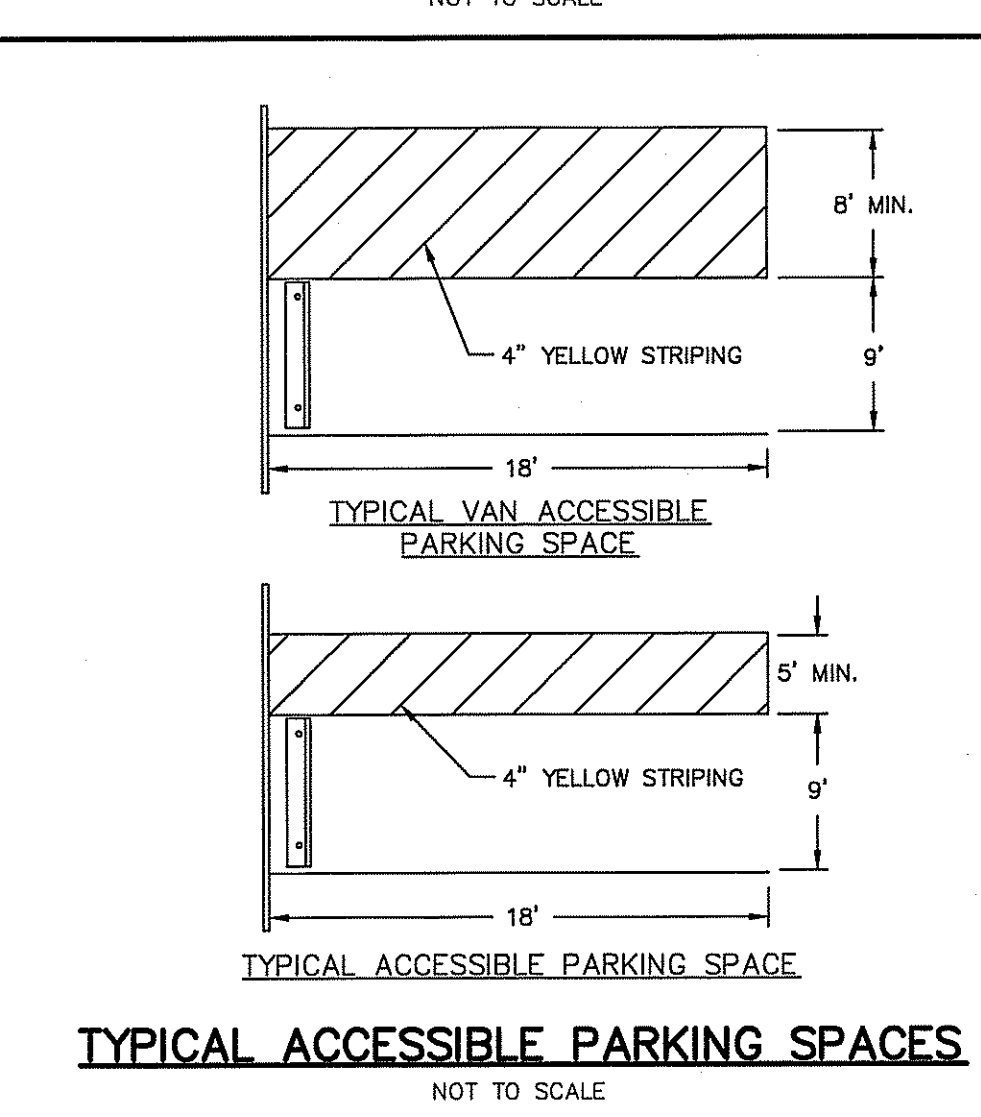
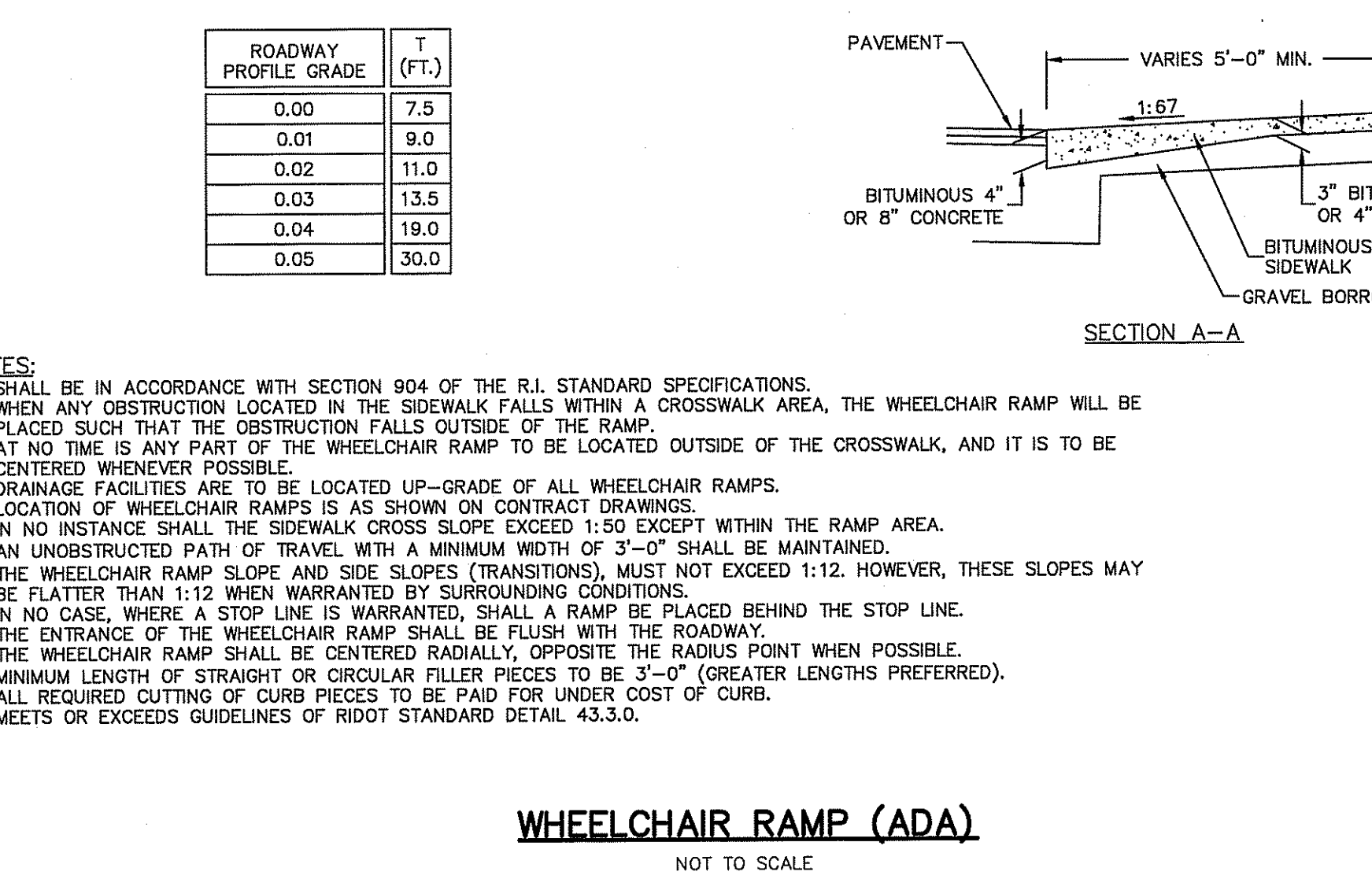
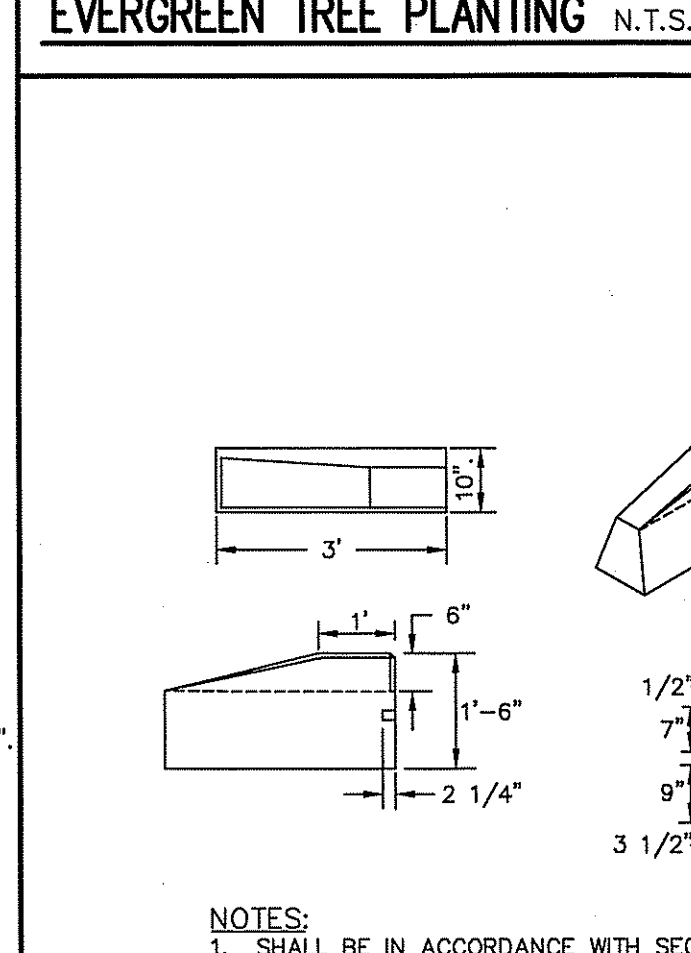
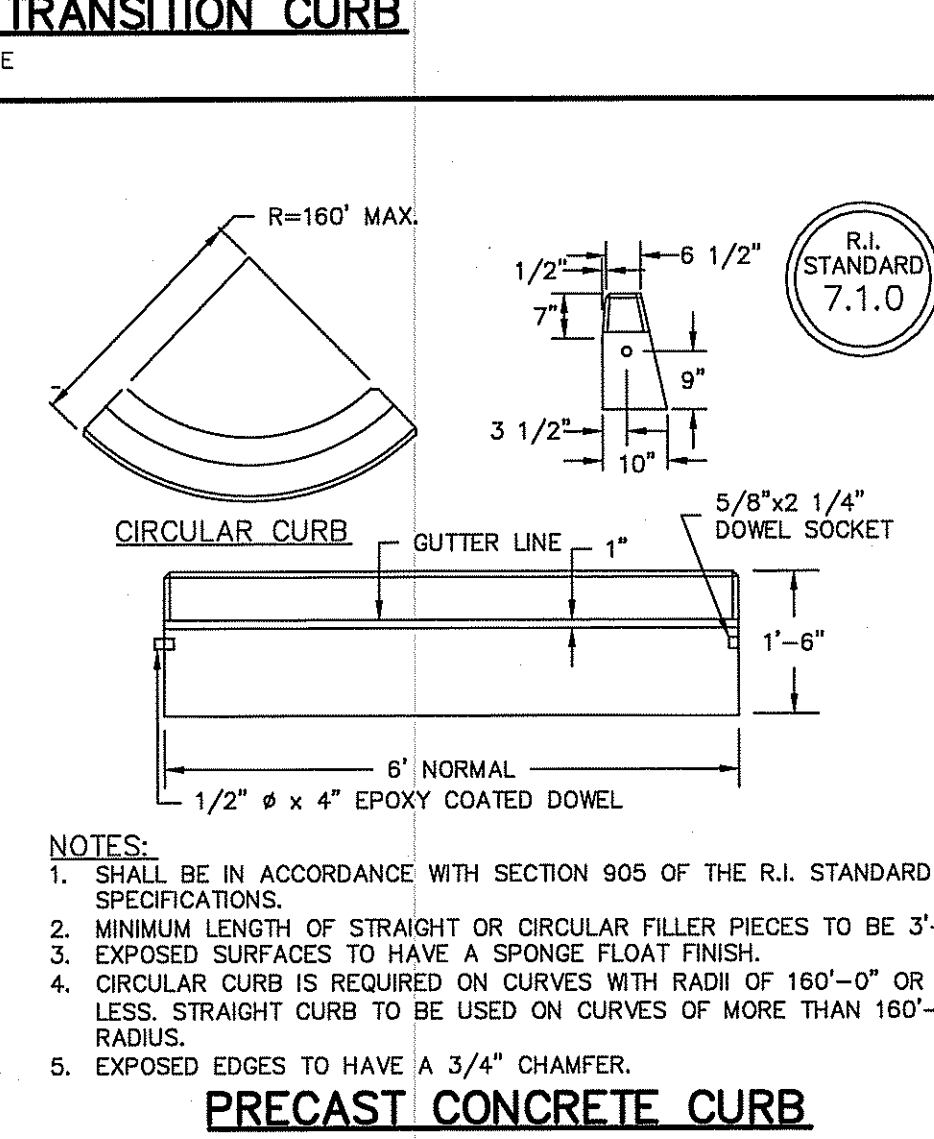
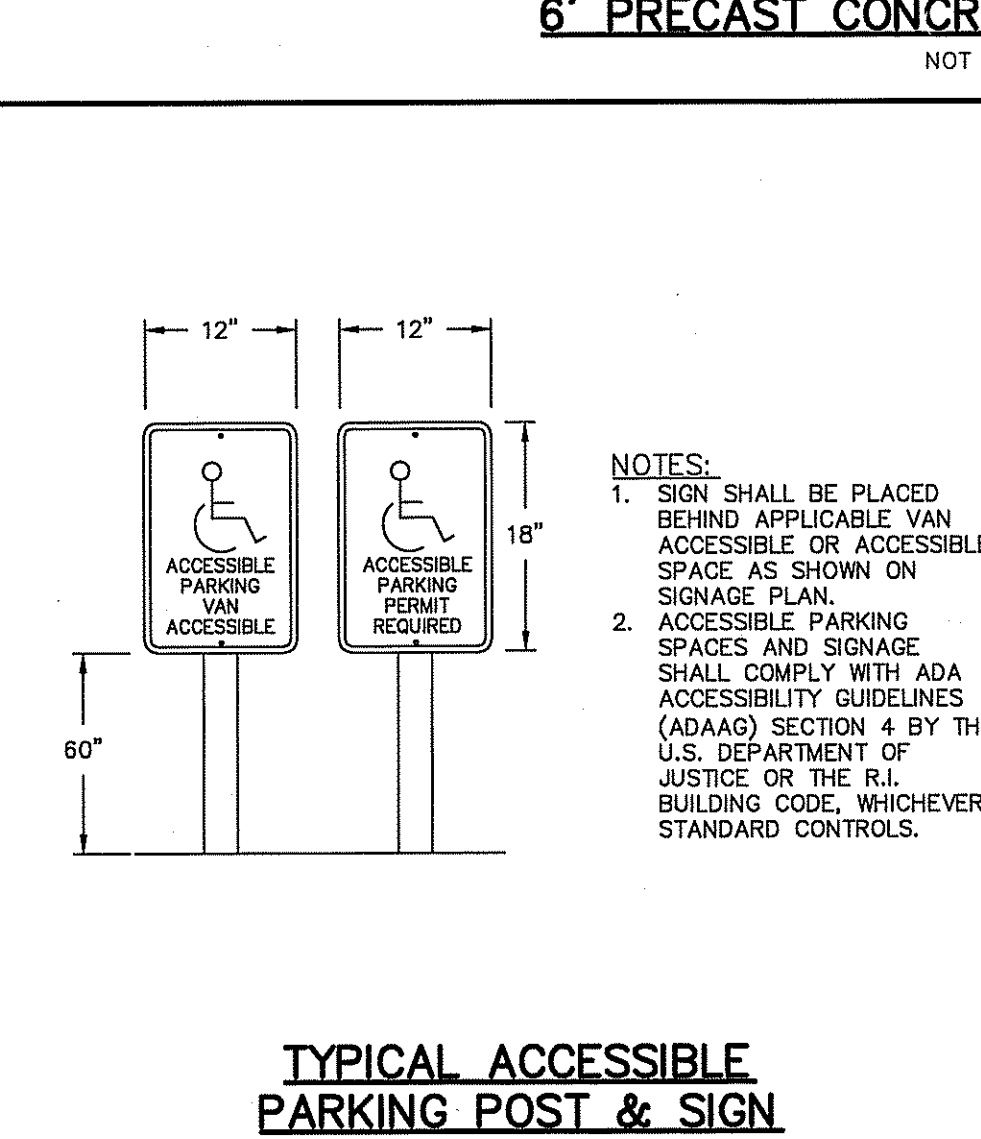
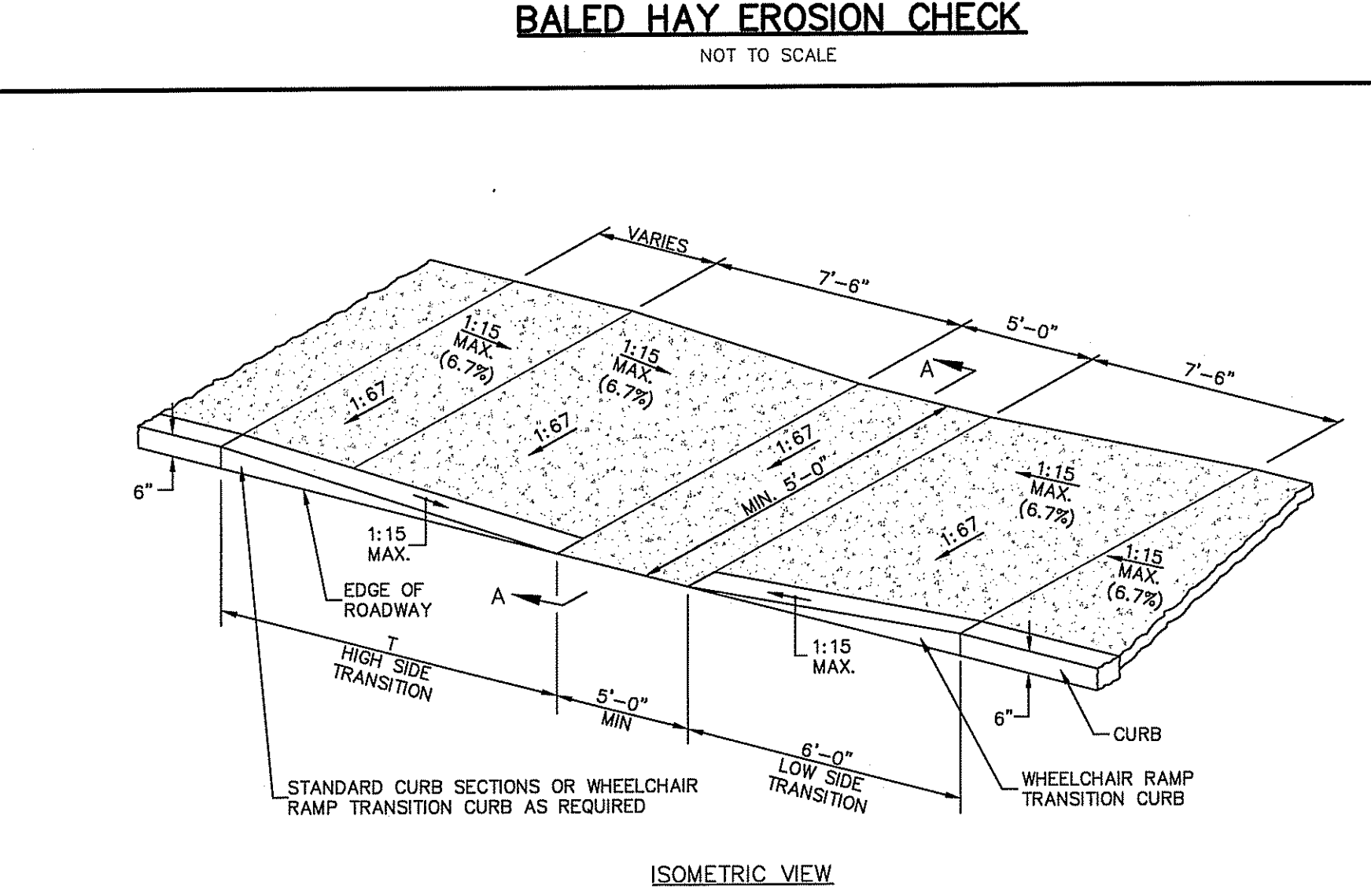
10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE VORTEXES(M) MODEL 5000 STORMWATER TREATMENT SYSTEM DURING AND UP TO A YEAR AFTER COMPLETION OF CONSTRUCTION. MAINTENANCE SHALL INCLUDE REMOVING SEDIMENTS FROM THE VORTEXES(M) AND OIL/WATER SEPARATORS SHALL BE REMOVED AT THAT TIME.

11. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE.

12. REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

13. TEMPORARY HAY MULCH TO BE TACKED IN PLACE WITH NYLON MESH NETTING.

14. MAXIMUM GRADED SLOPE WITHIN SITE TO BE 3:1, UNLESS OTHERWISE NOTED.



STRUCTURAL MEASURES

- A CLOSED DRAINAGE SYSTEM, OIL WATER SEPARATORS, AND VORTEXES(M) STORMWATER TREATMENT SYSTEM (MODEL 5000) ARE USED TO IMPROVE STORMWATER QUALITY.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED WHERE PAVEMENT WILL BE REMOVED. THE SEEDING SHALL INCLUDE ANY OTHER AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMIT OF WORK AS SHOWN ON PLANS.
- VIÇIOUS VEGETATION SHALL BE MAINTAINED. BARE OR ERODED AREAS SHALL BE IMMEDIATELY REPAIRED AND RESEED BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE VORTEXES(M) AND OIL/WATER SEPARATORS DURING AND UP TO A YEAR AFTER COMPLETION OF CONSTRUCTION. THE OWNER IS RESPONSIBLE THEREAFTER. ANY UNDEVELOPED VEGETATION COVER ON SITE WITHIN A YEAR OF THE PROJECT COMPLETION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL RESEED ANY UNSTABILIZED AREAS AFTER A FULL GROWING SEASON AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VORTEXES(M) AND OIL/WATER SEPARATORS UP TO THE ACCEPTANCE BY THE OWNER. THE OWNER IS RESPONSIBLE THEREAFTER. THE CONTRACTOR SHALL REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
- FINISH LANDSCAPING AND PERMANENT STRUCTURING.
- CLEAN AND FLUSH DRAINAGE SYSTEM, STRUCTURES, AND VORTEXES(M) SYSTEMS.
- REMOVE ALL TEMPORARY EROSION AND CONTROL MEASURES ONCE PERMANENT VEGETATION HAS REACHED AN ACCEPTABLE STAND.
- CONSTRUCTION TO OCCUR WHEN NECESSARY PERMITS ARE OBTAINED.

MAINTENANCE: SHORT TERM/LONG TERM

- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
- THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
- ALL HAYBALES, TEMPORARY TREATMENTS (HAY, STRAW, ETC.) AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- THE CONTRACTOR SHALL MAINTAIN ALL TOP SOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER.
- THE HAYBALES OR SILT FENCE SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETRIORATION. CONTRACTOR SHALL REPAIR OR REPLACE THE HAYBALES AS NECESSARY. CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH SEDIMENTS.
- THE STONE STABILIZATION PAD AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE DRAINAGE SYSTEM SHALL BE TOP DRESSED WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE VORTEXES(M) MODEL 5000 STORMWATER TREATMENT SYSTEM DURING AND UP TO A YEAR AFTER COMPLETION OF CONSTRUCTION. MAINTENANCE SHALL INCLUDE REMOVING SEDIMENTS FROM THE VORTEXES(M) AND OIL/WATER SEPARATORS SHALL BE REMOVED AT THAT TIME.
- THE CONTRACTOR SHALL MAINTAIN THE DRAINAGE SYSTEM THROUGHOUT CONSTRUCTION. THE ACCUMULATED SEDIMENTS IN THE CATCH BASINS SHALL BE REMOVED AND DRAINAGE PIPES FLUSHED BY THE CONTRACTOR AT THE END OF CONSTRUCTION.
- THE OWNER IS RESPONSIBLE FOR THE LONG TERM MAINTENANCE OF THE DRAINAGE SYSTEM INCLUDING TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
- ALL AREAS DISTURBED SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. PERMANENTLY SEEDING AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH MULCH. ALL SEEDING AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEED AS NECESSARY.
- REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.
- TEMPORARY HAY MULCH TO BE TACKED IN PLACE WITH NYLON MESH NETTING.
- MAXIMUM GRADED SLOPE WITHIN SITE TO BE 3:1, UNLESS OTHERWISE NOTED.

NONSTRUCTURAL MEASURES

- CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ACCESS ROADS, PARKING LOT, AND AREAS TO BE GRADED.
- A STONE STABILIZATION PAD IS LOCATED AT THE SITE ENTRANCE TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY.
- THE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCK PILE LOCATION SHALL BE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. A SEDIMENT BARRIER SHOULD SURROUND ALL TOPSOIL STOCKPILES.
- HAYBALES OR SILT FENCE SHALL BE INSTALLED DOWNSTREAM OUTSIDE THE LIMITS OF ANY PROPOSED CONSTRUCTION AS SHOWN ON THE SITE PLANS AND PRIOR TO THE COMMENCEMENT OF THE PROPOSED ALTERATION.
- HAYBALES SHALL BE MAINTAINED BY THE CONTRACTOR. INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND REPAIR OR REPLACEMENT SHALL BE DONE AS NECESSARY. CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH SEDIMENT.
- THE HAYBALES OR SILT FENCE SHALL BE CHECKED WEEKLY BY THE CONTRACTOR FOR UNDERMINING OR DETRIORATION.
- THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
- REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

DETAIL SHEET

Westgate Shopping Center Re-construction

ASSESSOR'S PLAT 44/3 LOT 86
JOHNSTON, RHODE ISLAND

PREPARED BY
DiPrete Engineering Associates, Inc.
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS

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JULY, 2003
DWN. BY: K.J.D.

KEVIN C. MORIN
REGISTERED PROFESSIONAL ENGINEER
CIVIL

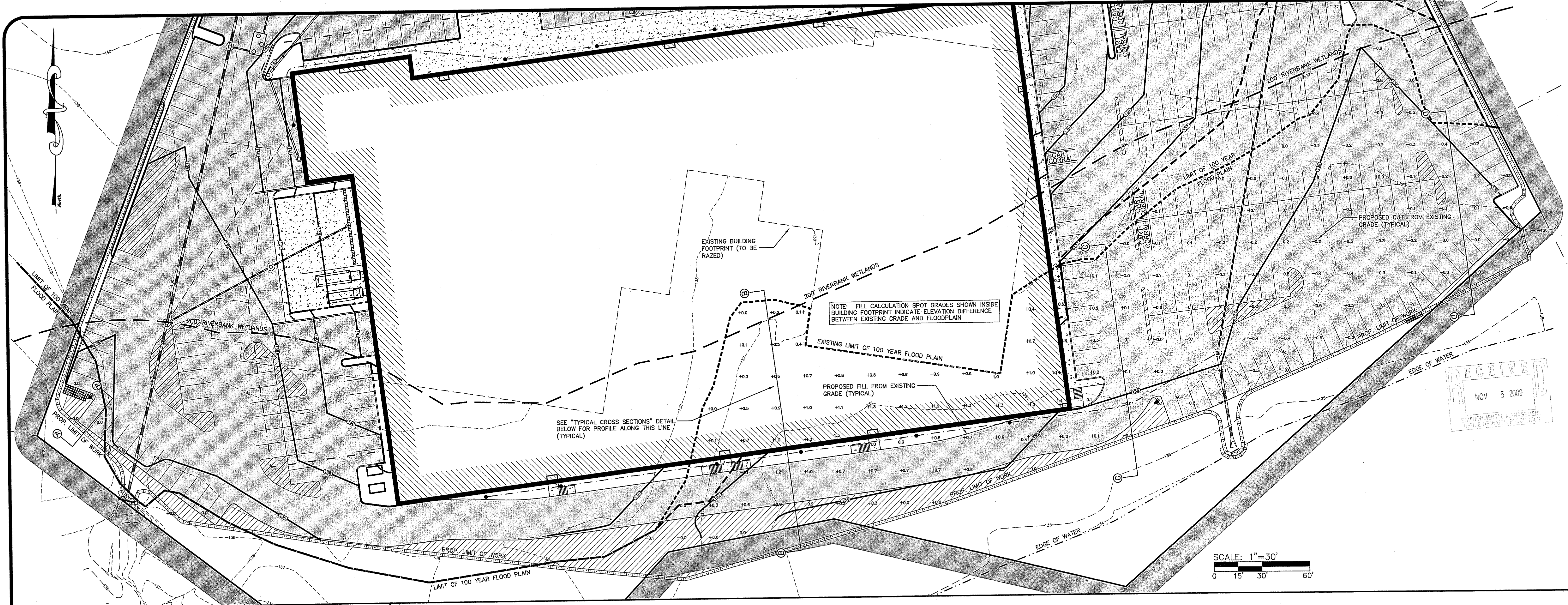
Preliminary Submission

DATE: 11/6/2010 FILE # 09-0280
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION

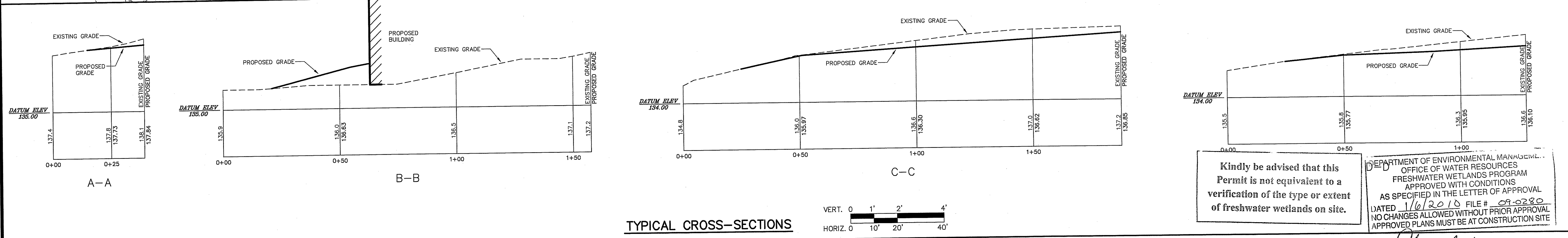
LEGEND

| SIGN NUMBER | DESCRIPTION |
|-------------|-------------|
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| R6-1 | ONE WAY |

NO. DATE DESCRIPTION BY



RECEIVED
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ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES

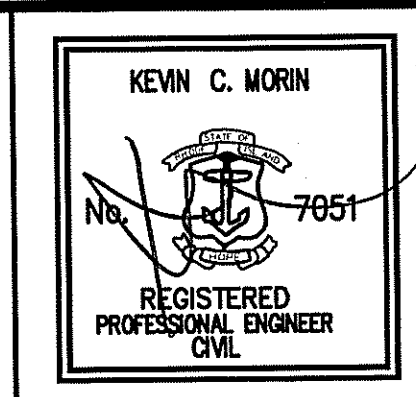


Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 1/6/2010 FILE # 09-0280
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Morin
Preliminary Submission

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FLOODPLAIN CUT-FILL PLAN
Westgate Shopping Center Re-construction
ASSESSOR'S PLAT 44/3 LOT 86
JOHNSTON, RHODE ISLAND

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|-----|---------|---------------------------|--------|
| 1 | 7-28-03 | RIDOT PAP SUBMISSION | K.J.D. |
| 0 | 7-28-03 | RIDOT WETLANDS SUBMISSION | K.J.D. |
| NO. | DATE | DESCRIPTION | BY |