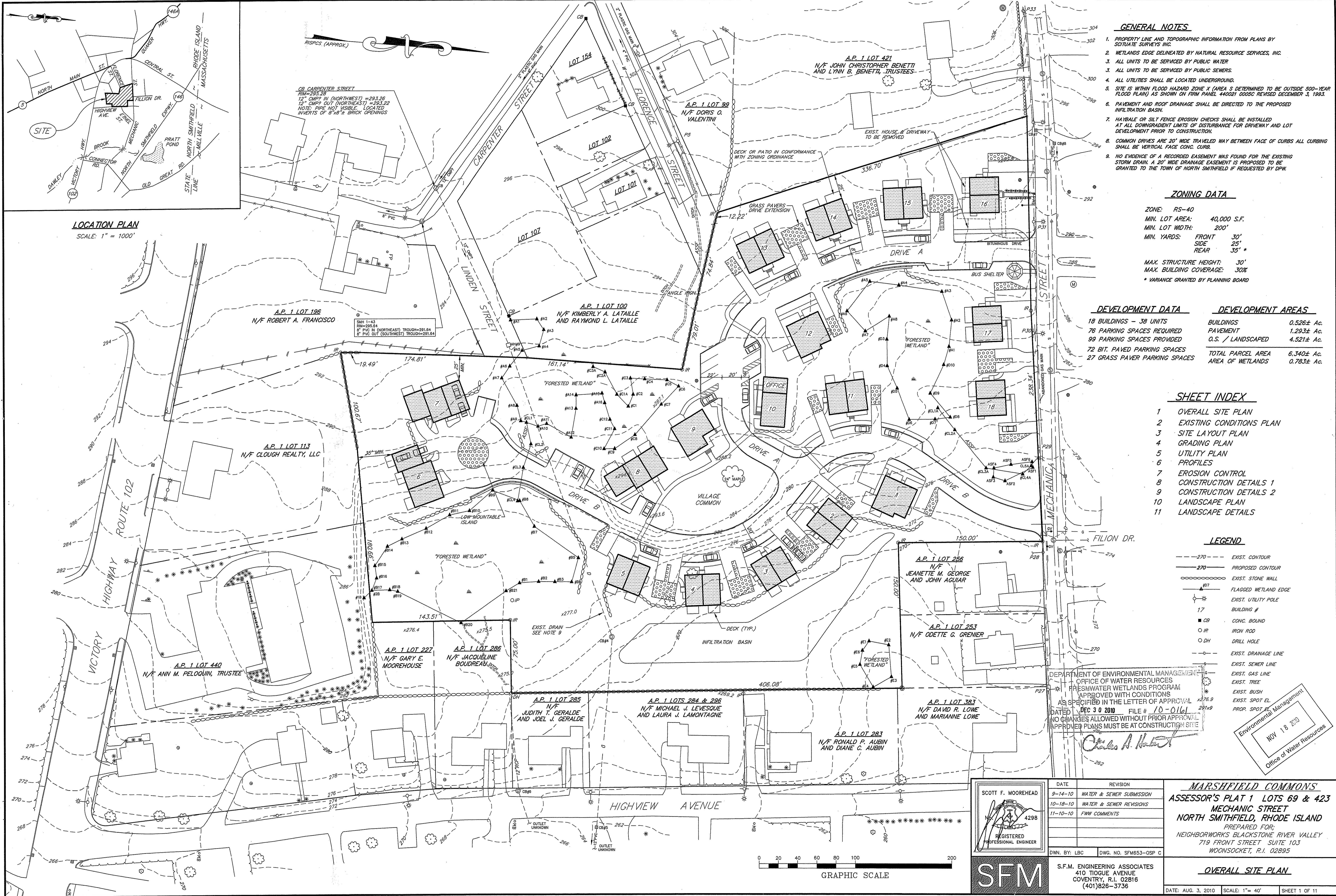


LOCATION PLAN
SCALE: 1" = 1000'



- GENERAL NOTES**
- PROPERTY LINE AND TOPOGRAPHIC INFORMATION FROM PLANS BY SCITUATE SURVEYS, INC.
 - WETLANDS EDGE DELINEATED BY NATURAL RESOURCE SERVICES, INC.
 - ALL UNITS TO BE SERVICED BY PUBLIC WATER
 - ALL UNITS TO BE SERVICED BY PUBLIC SEWERS
 - ALL UTILITIES SHALL BE LOCATED UNDERGROUND.
 - SITE IS WITHIN FLOOD HAZARD ZONE X (AREA S DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAIN) AS SHOWN ON FIRM PANEL 440021 000SC REVISED DECEMBER 3, 1993.
 - PAVEMENT AND ROOF DRAINAGE SHALL BE DIRECTED TO THE PROPOSED INFILTRATION BASIN.
 - HAYBALE OR SILT FENCE EROSION CHECKS SHALL BE INSTALLED AT ALL DOWNGRADE LIMITS OF DISTURBANCE FOR DRIVEWAY AND LOT DEVELOPMENT PRIOR TO CONSTRUCTION.
 - COMMON DRIVES ARE 20' WIDE TRAVELED WAY BETWEEN FACE OF CURBS ALL CURBING SHALL BE VERTICAL FACE CONC. CURB.
 - NO EVIDENCE OF A RECORDED EASEMENT WAS FOUND FOR THE EXISTING STORM DRAIN. A 20' WIDE DRAINAGE EASEMENT IS PROPOSED TO BE GRANTED TO THE TOWN OF NORTH SMITHFIELD IF REQUESTED BY DPW.

ZONING DATA

ZONE: RS-40
 MIN. LOT AREA: 40,000 S.F.
 MIN. LOT WIDTH: 200'
 MIN. YARDS: FRONT 30'
 SIDE 25'
 REAR 35'*

MAX. STRUCTURE HEIGHT: 30'
 MAX. BUILDING COVERAGE: 30%
 * VARIANCE GRANTED BY PLANNING BOARD

DEVELOPMENT DATA

18 BUILDINGS - 38 UNITS
 76 PARKING SPACES REQUIRED
 99 PARKING SPACES PROVIDED
 72 BIT. PAVED PARKING SPACES
 27 GRASS PAVER PARKING SPACES

DEVELOPMENT AREAS

BUILDINGS	0.526± Ac.
PAVEMENT	1.293± Ac.
O.S. / LANDSCAPED	4.521± Ac.
TOTAL PARCEL AREA	6.340± Ac.
AREA OF WETLANDS	0.783± Ac.

- SHEET INDEX**
- OVERALL SITE PLAN
 - EXISTING CONDITIONS PLAN
 - SITE LAYOUT PLAN
 - GRADING PLAN
 - UTILITY PLAN
 - PROFILES
 - EROSION CONTROL
 - CONSTRUCTION DETAILS 1
 - CONSTRUCTION DETAILS 2
 - LANDSCAPE PLAN
 - LANDSCAPE DETAILS

- LEGEND**
- 270- - EXIST. CONTOUR
 - 270- - PROPOSED CONTOUR
 - EXIST. STONE WALL
 - FLAGGED WETLAND EDGE
 - EXIST. UTILITY POLE
 - 17 BUILDING #
 - CB CONC. BOUND
 - IR IRON ROD
 - DH DRILL HOLE
 - EXIST. DRAINAGE LINE
 - EXIST. SEWER LINE
 - EXIST. GAS LINE
 - EXIST. TREE
 - EXIST. BUSH
 - EXIST. SPOT EL.
 - PROP. SPOT EL.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED DEC 30 2010 FILE # 10-0161
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Harkin
 Environmental Management
 NOV 18 2010
 Office of Water Resources

SCOTT F. MOOREHEAD
 REGISTERED PROFESSIONAL ENGINEER
 4298

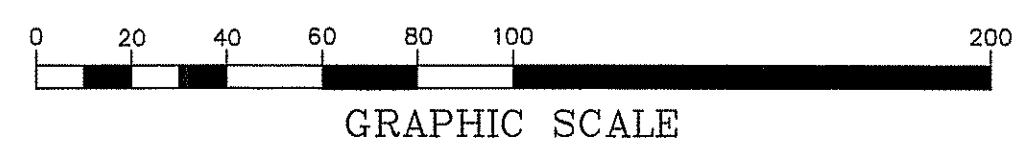
DATE	REVISION
9-14-10	WATER & SEWER SUBMISSION
10-18-10	WATER & SEWER REVISIONS
11-10-10	FWW COMMENTS

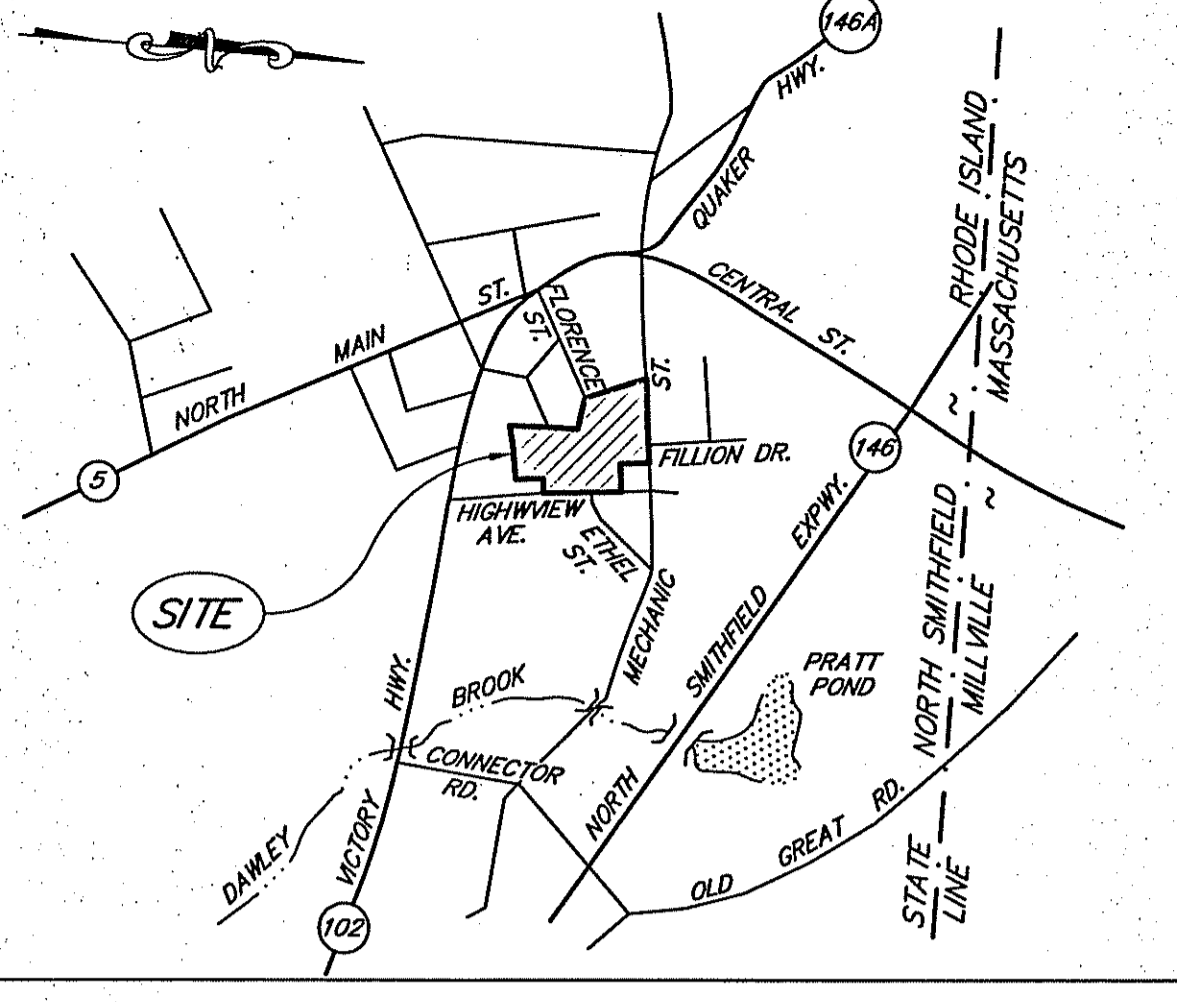
DWN. BY: LBC DWG. NO. SFM653-OSP C

SFM
 S.F.M. ENGINEERING ASSOCIATES
 410 TIOGUE AVENUE
 COVENTRY, R.I. 02816
 (401)826-3736

MARSHFIELD COMMONS
 ASSESSOR'S PLAN 1 LOTS 69 & 423
 MECHANIC STREET
 NORTH SMITHFIELD, RHODE ISLAND
 PREPARED FOR:
 NEIGHBORWORKS BLACKSTONE RIVER VALLEY
 719 FRONT STREET SUITE 103
 WOONSOCKET, R.I. 02895

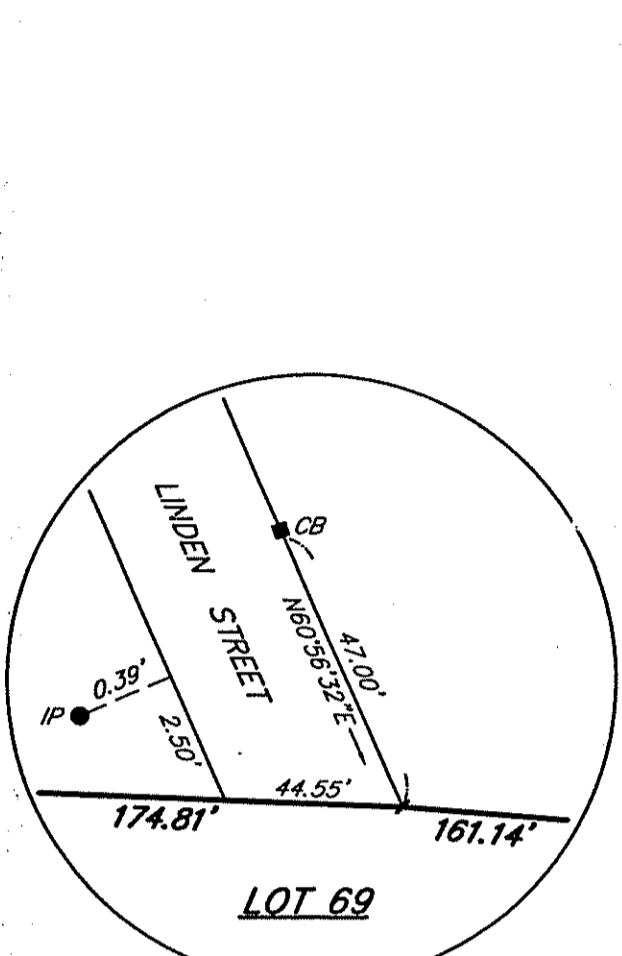
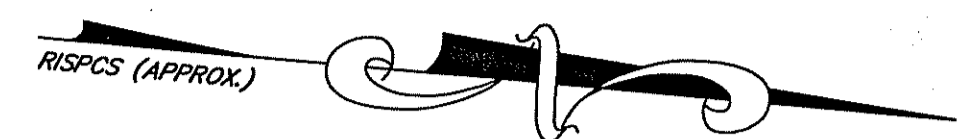
OVERALL SITE PLAN
 DATE: AUG. 3, 2010 SCALE: 1" = 40' SHEET 1 OF 11





LOCATION PLAN SCALE: 1" = 1000'

- PLAN REFERENCES**
- "CARPENTER PLAT . . . EDWARD A. CARPENTER, SLATERSVILLE ~ NORTH SMITHFIELD, R.I. NOVEMBER, 1926" RECORDED ~ PLAT SHELF 5
 - "McCANN PLAT . . . MICHAEL AND ELIZABETH McCANN, SLATERSVILLE, ~ NORTH SMITHFIELD, R.I. JUNE, 1940" RECORDED ~ PLAT SHELF 15
 - "PLAN OF LAND NORTH SMITHFIELD, R.I. MADE FOR CLARA SYMS MAY 1975 - SCALE 1 IN. = 50 FT. STANLEY W. MORRIS, SURVEYOR" RECORDED ~ PLAT SHELF 7



DETAIL C NOT TO SCALE

DETAIL B NOT TO SCALE

- NOTES**
- SURFACE EVIDENCE OF PUBLIC AND PRIVATE UTILITIES IS BASED UPON SURVEY LOCATION OF VISIBLE FEATURES. SUBSURFACE EVIDENCE IS BASED UPON MAPS AND RECORDS PROVIDED BY MUNICIPAL SOURCES, UTILITY COMPANIES, AND OTHER CONTROLLING AUTHORITIES. TOGETHER WITH SUCH REASONABLE ASSUMPTIONS AS MAY BE DRAWN FROM THE FIELD AND RECORD DATA, UTILITY INFORMATION MAY NOT BE ACCURATE OR COMPLETE, AND IS SUBJECT TO SUCH REVISIONS AND CHANGES AS ADDITIONAL DATA MAY DISCLOSE. ALL EXCAVATION MUST BE PRECEDED BY CONTACTING "DIG-SAFE" FOR A MORE ACCURATE AND RELIABLE LAYOUT OF EXISTING UTILITIES.
 - THE ENTIRE SITE IS LOCATED IN ZONE X (AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAIN) AS SHOWN ON FIRM #40021 PANEL 0005C REVISED DECEMBER 3, 1993.
 - THE FRESHWATER WETLAND DELINEATION WAS CONDUCTED BY NATURAL RESOURCE SERVICES, INC. OF HARRISVILLE, BETWEEN SEPTEMBER 2005 AND SEPTEMBER 2008. THE FLAG LOCATIONS HAVE NOT BEEN VERIFIED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WETLANDS SECTION.
 - THE TOPOGRAPHY DEPICTED HEREON IS DERIVED FROM AERIAL PHOTOGRAMMETRY. THE CONTOUR INTERVAL IS TWO FEET, AND THE MAPPING HAS BEEN VERIFIED AND SUPPLEMENTED BY GROUND SURVEYS.
 - THE VERTICAL DATUM FOR ELEVATIONS IS THE NATIONAL GEODETIC VERTICAL DATUM OF 1928. THE STARTING PROTECT BENCH MARK IS RISPCS SURVEY DISK 49 LOCATED ON ROUTE 146A; THE ELEVATION HELD IS 289.43' NGVD28.
 - SUBDIVISION APPROVAL BY THE TOWN OF NORTH SMITHFIELD IS REQUIRED TO MERGE SUBJECT LOTS 69 AND 423 INTO A SINGLE PARCEL.
 - THE SITE IS NOT SERVED BY A PUBLIC WATER SUPPLY.

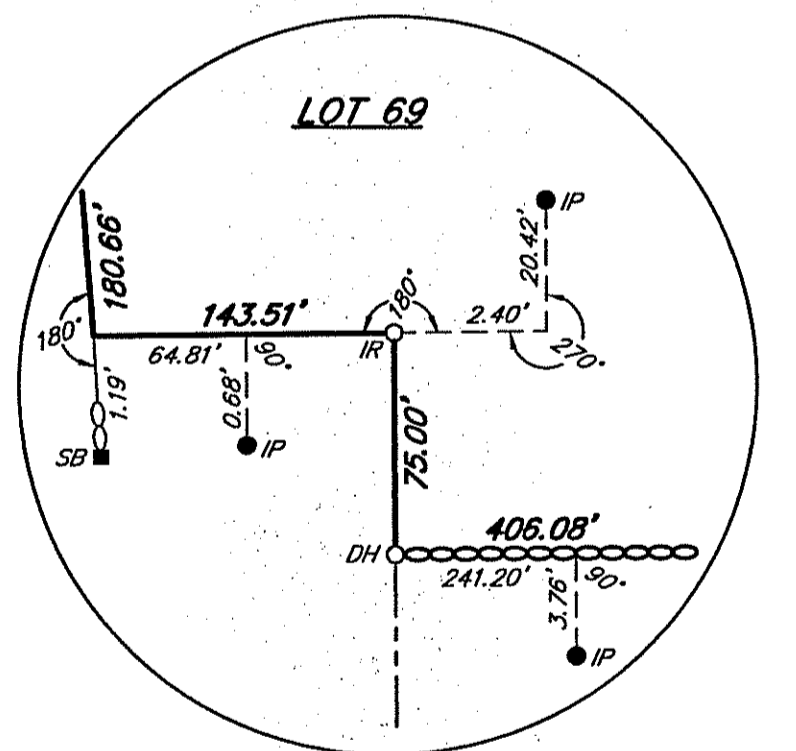
- OWNERS**
- LOT 69: THE WOODSOCKET NEIGHBORHOOD DEVELOPMENT CORPORATION
 - LOT 423: LISA D. CARTER

SEWER MANHOLES ~ ELEVATION TABLE

SMH#1 RM=298.72' FILLED WITH WATER SUMP=288.4'±	SMH#4 RM=274.16' INV. IN(W)=264.1' INV. IN(E)=263.8' INV. OUT(E)=263.5'
SMH#2 RM=291.78' INV. IN=283.6' INV. OUT=283.7'	SMH#5 RM=299.25' INV. IN(W)=291.8'
SMH#3 RM=280.59' INV. IN=282.7' INV. OUT=272.8'	

CATCH BASINS ~ ELEVATION TABLE

CB#1 RM=275.95' INV. IN(W)=274.2' INV. IN(S)=274.2'	CB#6 RM=265.72' INV. IN(W)=263.3' INV. OUT(E)=262.8'
CB#2 RM=276.48' INV. IN(W)=273.7' INV. IN(S)=273.5' INV. OUT(E)=272.8'	CB#7 RM=291.54' 10" INV. IN(W)=291.2' 10" INV. IN(S)=291.9'
CB#3 RM=273.52' 10" INV. IN(W)=278.8' 10" INV. IN(S)=269.4'	CB#8 RM=292.70' 10" INV. IN=290.9' 10" INV. OUT=290.9'
CB#4 RM=273.48' 10" INV. IN=276.8' 10" INV. OUT=270.2'	CB#9 RM=290.58' 10" INV. IN=289.2' 10" INV. OUT=287.8'

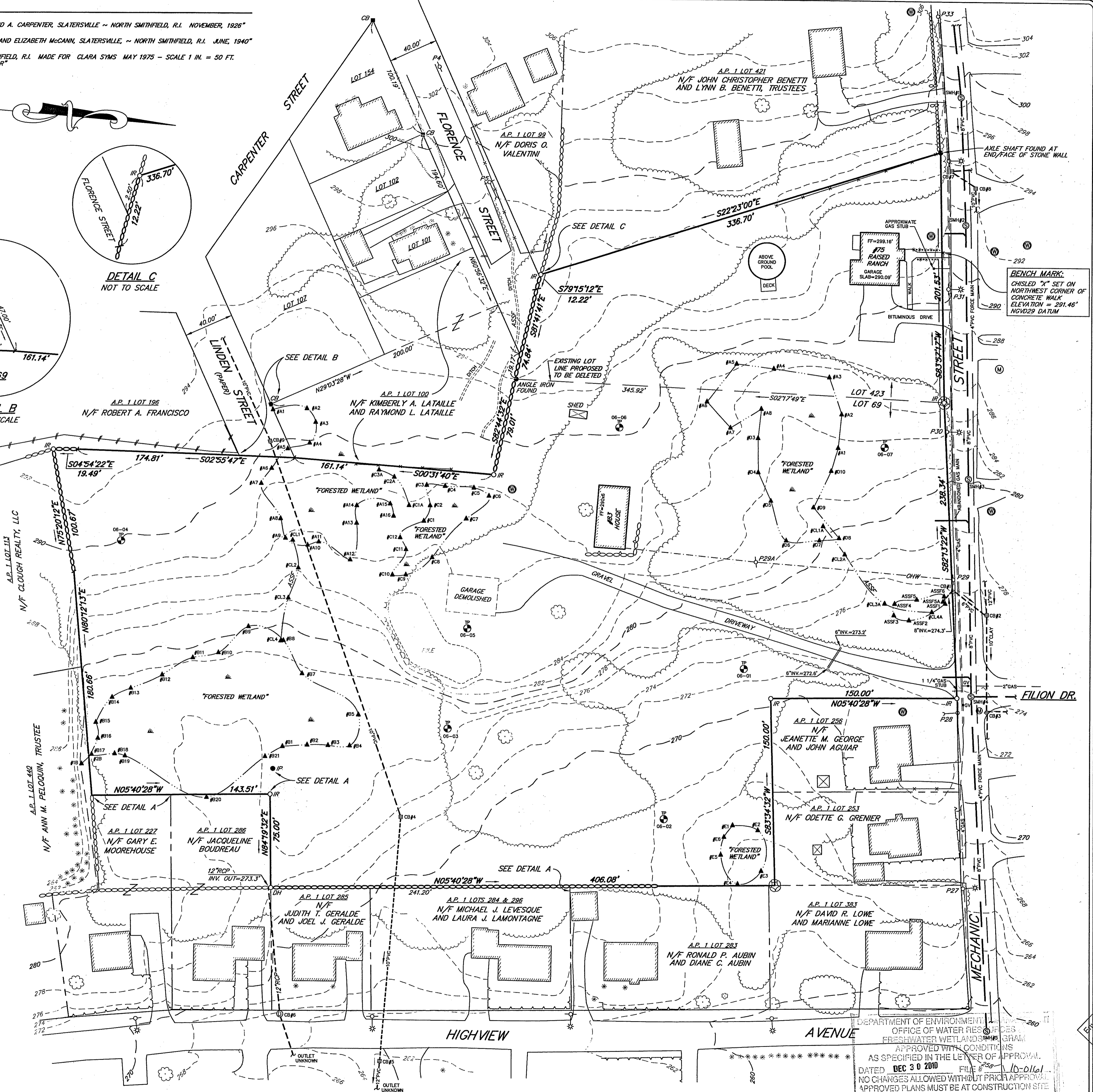


DETAIL A NOT TO SCALE

AREA TABLE

LOT 69 = 228,825± SQ. FT.	5.253 ACRES
LOT 423 = 47,357± SQ. FT.	1.087 ACRES
TOTAL AREA = 276,182± SQ. FT.	6.340 ACRES

- LEGEND**
- A.P. ASSESSOR'S PLAT
 - N/F NOW OR FORMERLY
 - SQ. FT. SQUARE FEET
 - IR IRON ROD FOUND
 - SB STONE BOUND FOUND
 - OR IRON ROD SET
 - DH DRILL HOLE SET
 - CB CONCRETE BOUND FOUND
 - MANHOLE COVER
 - SOIL EVALUATION TEST HOLE
 - WELL
 - DRAINAGE MANHOLE
 - SEWER MANHOLE
 - MANHOLE
 - CATCH BASIN
 - UTILITY POLE WITH LIGHT
 - UTILITY POLE/GUY WIRE
 - WETLAND DELINEATION FLAG
 - AREA SUBJECT TO STORM FLOWAGE
 - OVERHEAD WIRE
 - TREE LINE
 - STONE RETAINING WALL
 - DRAINAGE LINE
 - CHAIN LINK FENCE
 - WOOD FENCE
 - SEWER LINE
 - EXISTING CONTOUR
 - STONE WALL
 - TREE
 - BUSH
 - RING OF STONES FOUND



SCITUATE SURVEYS, INC.
 410 TIGOGUE AVENUE
 COVENTRY, RHODE ISLAND 02816
 401-621-6101
 LAND SURVEYING / MAPPING / SITE PLANNING

SCALE IN FEET: 0 20 40 80 120

FOR STREET AND ROAD INDEX, FILE UNDER:
MECHANIC STREET, FLORENCE STREET & LINDEN STREET

THE BOUNDARY SURVEY OF THE SUBJECT PARCELS, THE RESULTS OF WHICH ARE DEPICTED AND SHOWN ON THIS PLAN, WAS CONDUCTED IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES DEFINED IN THE "PROFESSIONAL AND TECHNICAL STANDARDS" ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THE DATA ACCUMULATED FROM THIS SURVEY, INCLUDING PHOTOGRAPHY, COMPLY WITH A CLASS III ACCURACY STANDARD.

JOHN WEISINGER
 PROFESSIONAL LAND SURVEYOR
 No. 1006

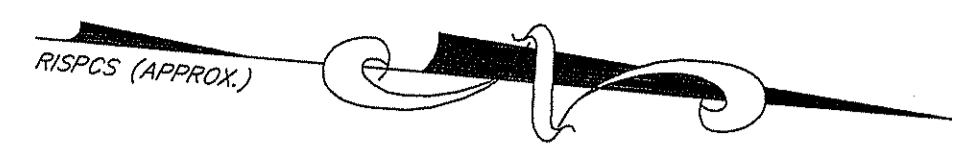
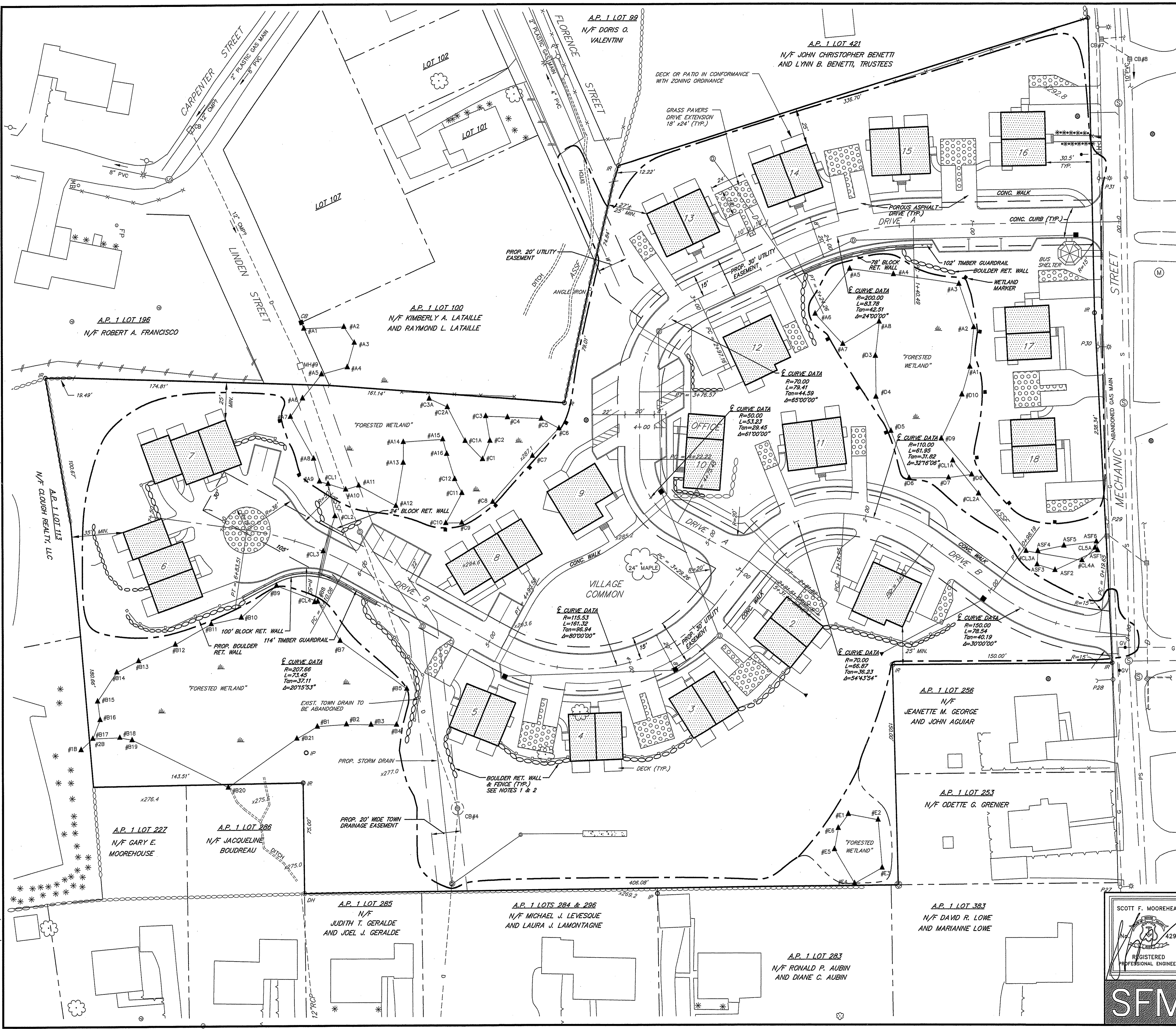
BOUNDARY SURVEY AND EXISTING CONDITIONS PLAN
 PREPARED FOR
NEIGHBORWORKS
 118 2010
 ASSESSOR'S PLAT 1 LOTS 69 & 423
 MECHANIC STREET, FLORENCE STREET & LINDEN STREET
 NORTH SMITHFIELD, RHODE ISLAND

DATE: OCTOBER 10, 2008 REVISION: NOV. 14, 2008
 SCALE: 1" = 40'

PROJECT NO.: SS2149 SHEET 2 OF 11
 DRAWING NO.: SS3329

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PERMIT PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL.
 DATED DEC 30 2010 FILE # 10-0161
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Charles A. Harty



- GENERAL NOTES**
- CONTRACTOR SHALL USE ON SITE BOULDERS TO CONSTRUCT RETAINING WALLS TO THE EXTENT POSSIBLE. IF NATIVE BOULDERS ARE UNAVAILABLE, WALLS SHALL BE CONSTRUCTED OF WET STONE MASONRY OR PRECAST SEGMENTAL CONCRETE BLOCK.
 - ALL WALLS HIGHER THAN 20" SHALL HAVE PEDESTRIAN SAFETY RAILS OR FENCING AS REQUIRED BY THE BUILDING CODE.
 - ALL SITE CONSTRUCTION SHALL BE ACCURATELY LOCATED BY THE PROJECT SURVEYOR.
 - UTILITY AND DRAINAGE EASEMENTS ARE TO BE DEEDED TO THE TOWN OF NORTH SMITHFIELD.

LEGEND

- - - 270 - - - EXIST. CONTOUR
- 270 — PROPOSED CONTOUR
- ○ ○ ○ ○ EXIST. STONE WALL
- □ □ □ □ PROP. PRECAST BLOCK RETAINING WALL
- □ □ □ □ PROP. BOULDER RET. WALL
- ▲ #A1 FLAGGED WETLAND EDGE
- #2 EXIST. UTILITY POLE
- #3 GROUNDWATER TEST HOLE
- 17 BUILDING #
- #R CONC. BOUND
- #IR IRON ROD
- #DH DRILL HOLE
- DRAINAGE LINE
- SEWER LINE
- GAS LINE
- EXIST. TREE
- * EXIST. BUSH
- * 276.9 EXIST. SPOT EL.
- * 281.9 PROP. SPOT EL.
- EXIST. WELL
- PROP. TIMBER GUARDRAIL
- PROP. RAIL FENCE
- LIMIT OF DISTURBANCE
- 4" x 4" PRESSURE TREATED POSTS 24" ABOVE GRADE
- PLACARD READING "DEM WETLAND AREA"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESH-WATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED DEC 30 2010 FILE # 10-0161
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hallett

SCOTT F. MOOREHEAD
 No. 4298
 REGISTERED PROFESSIONAL ENGINEER

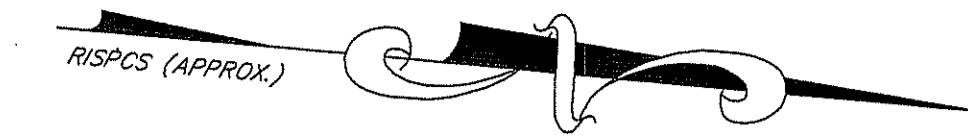
DATE	REVISION
9-16-10	EASEMENTS
10-18-10	UTILITY EASEMENT
11-10-10	FWW COMMENTS

SFM

S.F.M. ENGINEERING ASSOCIATES
 410 TIOGUE AVENUE
 COVENTRY, R.I. 02816
 (401)826-3736

MARSHFIELD COMMONS
 ASSESSOR'S PLAT 1 LOTS 69 & 423
 MECHANIC STREET
 NORTH SMITHFIELD, RHODE ISLAND
 PREPARED FOR:
 NEIGHBORWORKS BLACKSTONE RIVER VALLEY
 719 FRONT STREET SUITE 103
 WOONSOCKET, R.I. 02895

SITE LAYOUT PLAN
 DATE: APRIL 3, 2010 SCALE: 1"=30' SHEET 3 OF 11



NOTES

1. SPOT ELEVATIONS SHOWN AT CURB LINES ARE PAVEMENT EL. AT FACE OF CURB. TOP OF CURB IS .50' HIGHER.
2. SIDEWALK SLOPES SHALL BE .01 (MIN.) AND .05 (MAX.).
3. SEE SHEET 9 FOR DETAILS OF WHEELCHAIR RAMP.
4. PROP. EMBANKMENT SLOPES SHALL BE 3:1 OR FLATTER, EXCEPT AS NOTED.
5. LANDSCAPE AREAS SHALL BE GRADED AT A MIN. 5'-01" AWAY FROM BUILDINGS TO CATCH BASINS. ADDITIONAL YARD DRAINS SHALL BE ADDED IF POSITIVE DRAINAGE CAN NOT BE PROVIDED.
6. CONSTRUCTION OF THE INFILTRATION BASIN AND TEMPORARY SEDIMENT BASIN SHALL BE THE FIRST ITEMS OF SITE GRADING. THE BASINS SHALL BE CONSTRUCTED AND STABILIZED WITH VEGETATION PRIOR TO ANY RUNOFF BEING DIRECTED TO THE BASINS. THE BASINS SHALL BE PROTECTED FROM EROSION AND SILTATION AT ALL TIMES.
7. BUILDINGS 1 AND 2 SHALL BE THE LAST BUILDINGS CONSTRUCTED. A TEMPORARY SEDIMENT BASIN SHALL BE MAINTAINED UNTIL ALL OTHER SITE DEVELOPMENT AREAS ARE PERMANENTLY STABILIZED WITH PAVEMENT OR VEGETATION.

BENCH MARK:
CHISELED "X" SET ON NORTHWEST CORNER OF CONCRETE WALK ELEVATION = 291.46 NGVD29 DATUM

BUILDING ELEVATIONS

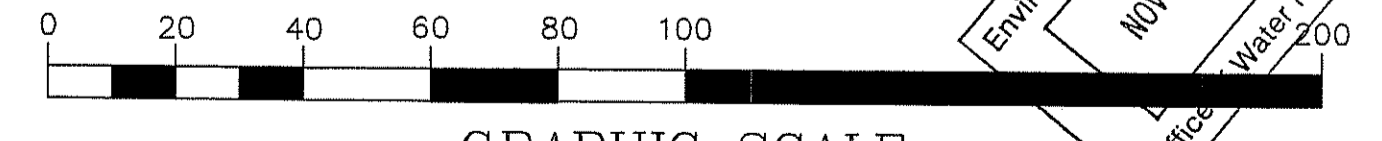
BLDG.	FIRST FL. EL.	T.O.F.	BASMT./GAR.
1	282.7	-	-
2	285.1	284.0	276.3
3	284.6	283.5	275.8
4	285.1	284.0	276.3
5	285.6	284.5	276.8
6	296.0	294.7	286.7
7	296.0	294.7	286.7
8	287.0	-	-
9	288.7	-	-
10	290.1	-	-
11	287.0	-	-
12	293.7	-	-
13	295.8	-	-
14	295.8	-	-
15	295.8	-	-
16	294.8	-	-
17	288.7	-	-
18	284.0	-	-

LEGEND

- - - 270 - - - EXIST. CONTOUR
- - - 270 - - - PROPOSED CONTOUR
- EXIST. STONE WALL
- TREE LINE
- ▲ #07 FLAGGED WETLAND EDGE
- EXIST. UTILITY POLE
- GROUNDWATER TEST HOLE
- 17 BUILDING #
- CB CONC. BOUND
- IR IRON ROD
- OH DRILL HOLE
- - - DRAINAGE LINE
- - - SEWER LINE
- - - GAS LINE
- EXIST. TREE LINE
- TREE
- * BUSH
- x276.9 EXIST. SPOT EL.
- 291+9 PROP. SPOT EL.
- EXIST. WELL
- PROP. PRECAST BLOCK RET. WALL
- PROP. BOULDER RET. WALL/SLOPE
- PROP. FENCE
- PROP. GUARDRAIL
- x x x BALED HAY EROSION CHECK
- - - LIMIT OF DISTURBANCE
- - - TEMPORARY LIMIT OF DISTURBANCE
- 4" x 4" PRESSURE TREATED POSTS 24" ABOVE GRADE WITH PLACARD READING "DEM WETLANDS AREA"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DEC 30 2010 FILE # 10-0161
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

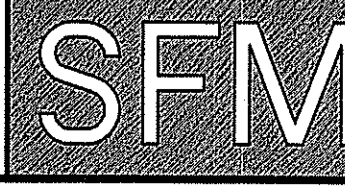
Charles A. Moorehead
270



SCOTT F. MOOREHEAD
No. 4298
REGISTERED PROFESSIONAL ENGINEER

DATE	REVISION
4-3-10	UTILITIES
11-10-10	FWW COMMENTS

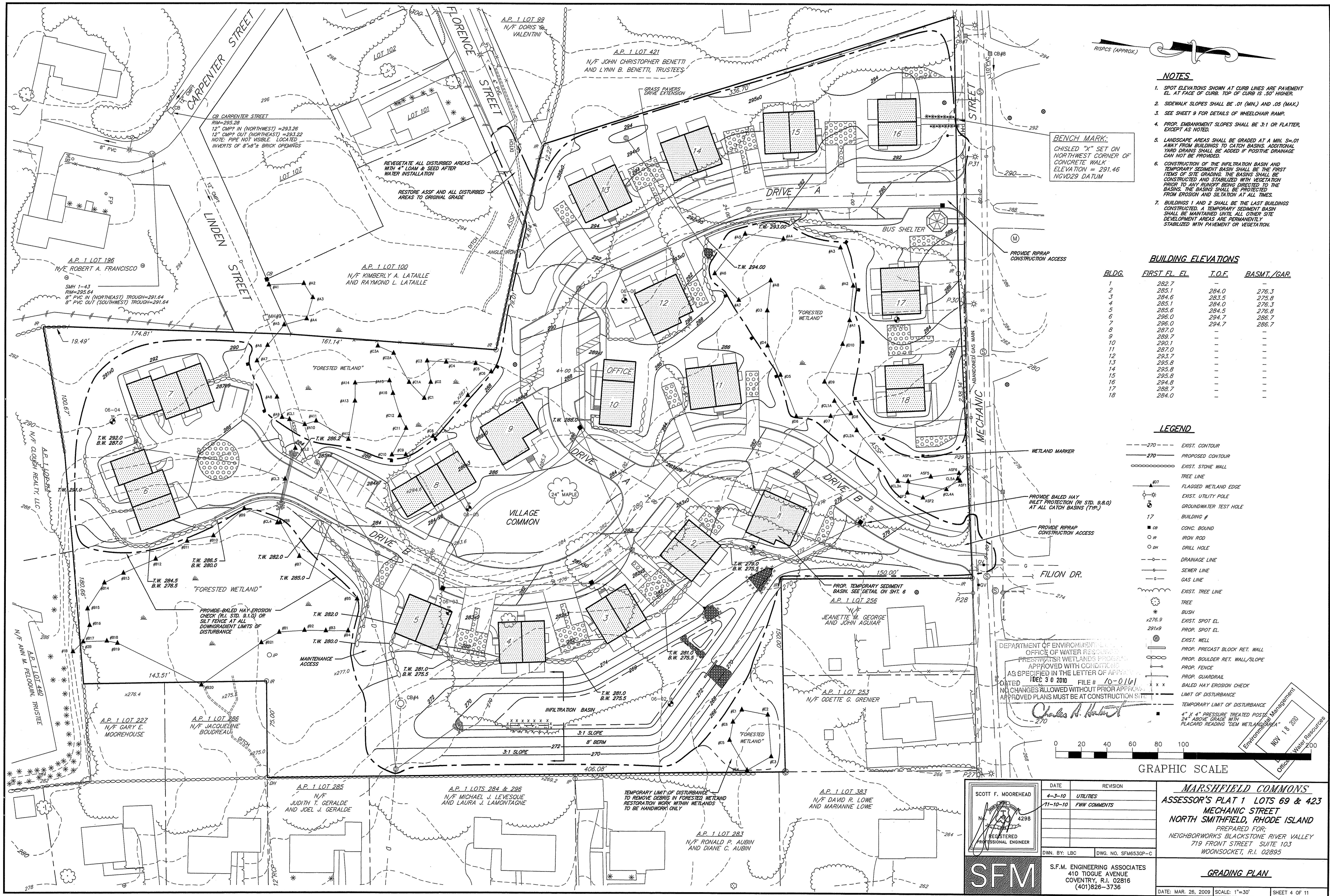
DWN. BY: LBC DWG. NO. SFM653GP-C

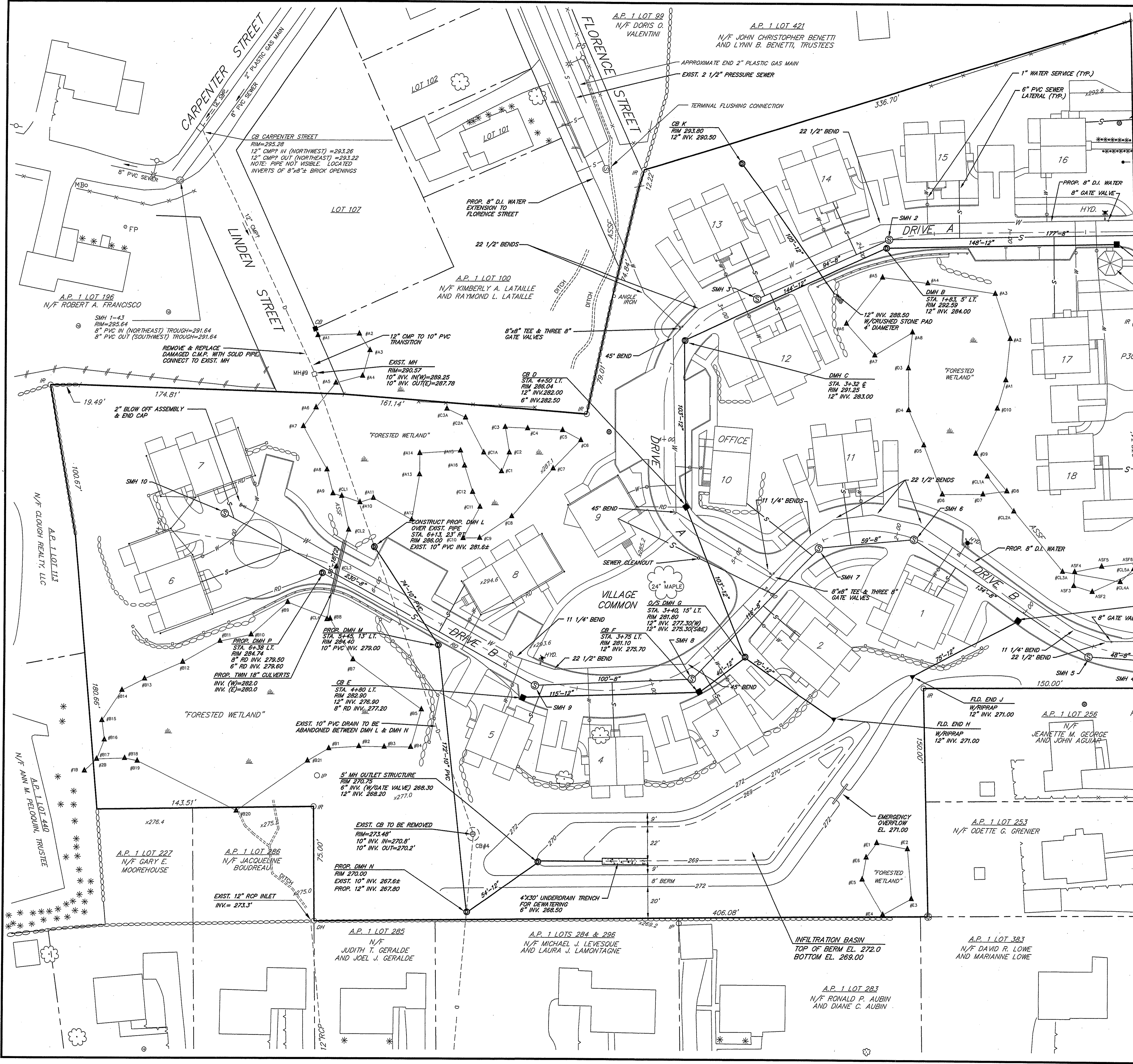


S.F.M. ENGINEERING ASSOCIATES
410 TIGUE AVENUE
COVENTRY, R.I. 02816
(401)826-3736

MARSHFIELD COMMONS
ASSESSOR'S PLAT 1 LOTS 69 & 423
MECHANIC STREET
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR:
NEIGHBORWORKS BLACKSTONE RIVER VALLEY
719 FRONT STREET SUITE 103
WOONSOCKET, R.I. 02895

GRADING PLAN





UTILITY NOTES:

- LOCATIONS AND SIZES OF EXISTING UTILITIES IS PLOTTED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL INFORMATION WITH THE APPROPRIATE UTILITY AUTHORITY AND DIG SAFE PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
- EXPLORATORY TEST PITS SHALL BE EXCAVATED TO CONFIRM LOCATION AND DEPTH AT ANY CRITICAL AREAS, AS REQUIRED.
- CONTRACTOR SHALL COORDINATE SERVICE LOCATIONS WITH THE ARCHITECTURAL PLANS.
- STORM DRAINAGE PIPE SHALL BE HDPE ADS-N-12 (OR EQUAL).
- WATER MAINS SHALL BE 8" CL. 52 DUCTILE IRON, DOUBLE CEMENT LINED. WATER SERVICES SHALL BE 1" TYPE "K" COPPER. ALL WATER RELATED WORK SHALL BE IN ACCORDANCE WITH THE POLICIES AND PRACTICES OF THE NORTH SMITHFIELD WATER AUTHORITY.
- WATER LINES SHALL BE INSTALLED A MINIMUM OF 18" ABOVE SEWER LINES AND A HORIZONTAL SEPARATION OF 10" SHALL BE MAINTAINED BETWEEN WATER LINES AND ALL OTHER UTILITIES.
- THE NORTH SMITHFIELD WATER DEPT. RULES AND REGULATIONS SHALL BE KEPT ON SITE DURING THE CONSTRUCTION OPERATION. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES, REGULATIONS, AND DETAILS.
- HYDRANTS SHALL BE AMERICAN DARLING B-84-6. GATE VALVES SHALL BE MECH. JOINT OPEN LEFT. CURB STOPS SHALL BE MUELLER H-1520B, RED HEAD OR EQUAL.
- GAS, CABLE, ELECTRIC AND TELEPHONE SERVICES SHALL BE AS PER APPROPRIATE UTILITY AUTHORITY.
- UTILITY SERVICE INSTALLATIONS SHALL BE APPROVED AND INSPECTED BY THE APPROPRIATE UTILITY COMPANY.

ROOF DRAIN NOTES

- ROOF DRAINS SHALL BE 6" ADS OR PVC AT S=0.008 (MIN.)
- BLDG. 6,7,8,9 - ROOF DRAINS SHALL BE CONNECTED TO THE STREET DRAINAGE SYSTEM.

SEWER INFORMATION

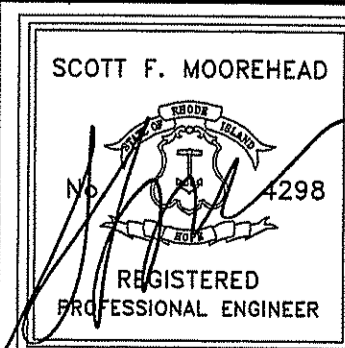
MH #	STA.	RIM	INV. IN	INV. OUT
1	0+01 2' LT.	288.2±	279.2±	EXIST. 279.1±
2	1+80	282.65	283.50	283.40
3	2+75 4' LT.	292.50	-	284.50
4	0+00 2' LT.	274.5±	264.6±	EXIST. 264.5±
5	0+50 7' LT.	275.07±	267.60	267.50
6	1+88 2' LT.	281.35	272.60	272.50
7	2+55 3' LT.	283.04	273.30	273.20
8	3+75 7' LT.	281.36	274.60	274.50
9	4+77 6' LT.	283.15	275.70	275.60
10	7+07 17' RT.	286.35	-	278.00

MECHANIC STREET SMH 1 & 4 INSTALLATION NOTES:

- EXISTING 8" PVC SEWER SHALL BE PLUGGED AT UPSTREAM SMH. SEWAGE SHALL BE BYPASS PUMPED TO NEXT DOWNSTREAM SMH.
- CUT EXIST. PVC SEWER MAIN, INSTALL NEW SMH WITH PRECONSTRUCTED BRICK SHELF AND CONNECT TO EXIST. MAIN. 4" M.H. STUBS SHALL BE CONNECTED TO THE EXIST. SEWER MAIN WITH MECHANICAL COUPLINGS. FERRULO COUPLINGS ARE NOT ALLOWED.
- UPON INSTALLATION OF SMH, END BYPASS OF SEWAGE CONSTRUCTION SHALL BE SCHEDULED TO MINIMIZE LENGTH OF BYPASS TIME.
- INSTALL SEWER LATERAL AND WYE FOR BUILDING 18 AT TIME OF INSTALLATION OF SMH 4.

LEGEND

- 270 --- EXIST. CONTOUR
- 270 --- PROPOSED CONTOUR
- EXIST. STONE WALL
- EXIST. FLAGGED WETLAND EDGE
- EXIST. UTILITY POLE
- BUILDING #
- EXIST. DRAINAGE LINE
- SEWER LINE
- GAS LINE
- WATER LINE
- ROOF DRAIN
- EXIST. WELL
- PROP. PRECAST BLOCK RET. WALL
- PROP. BOULDER RET. WALL
- PROP. FENCE
- PROP. GUARDRAIL



DATE	REVISION
8-14-10	UTILITIES
10-18-10	SEWER INVS. & WATER SERVICES
11-10-10	FWW COMMENTS

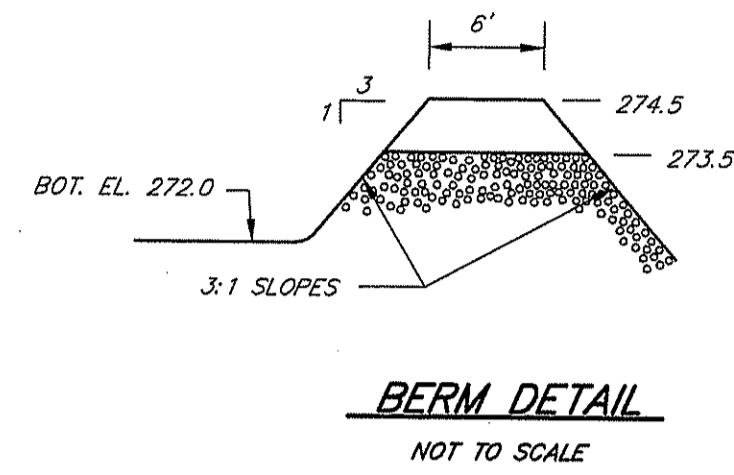
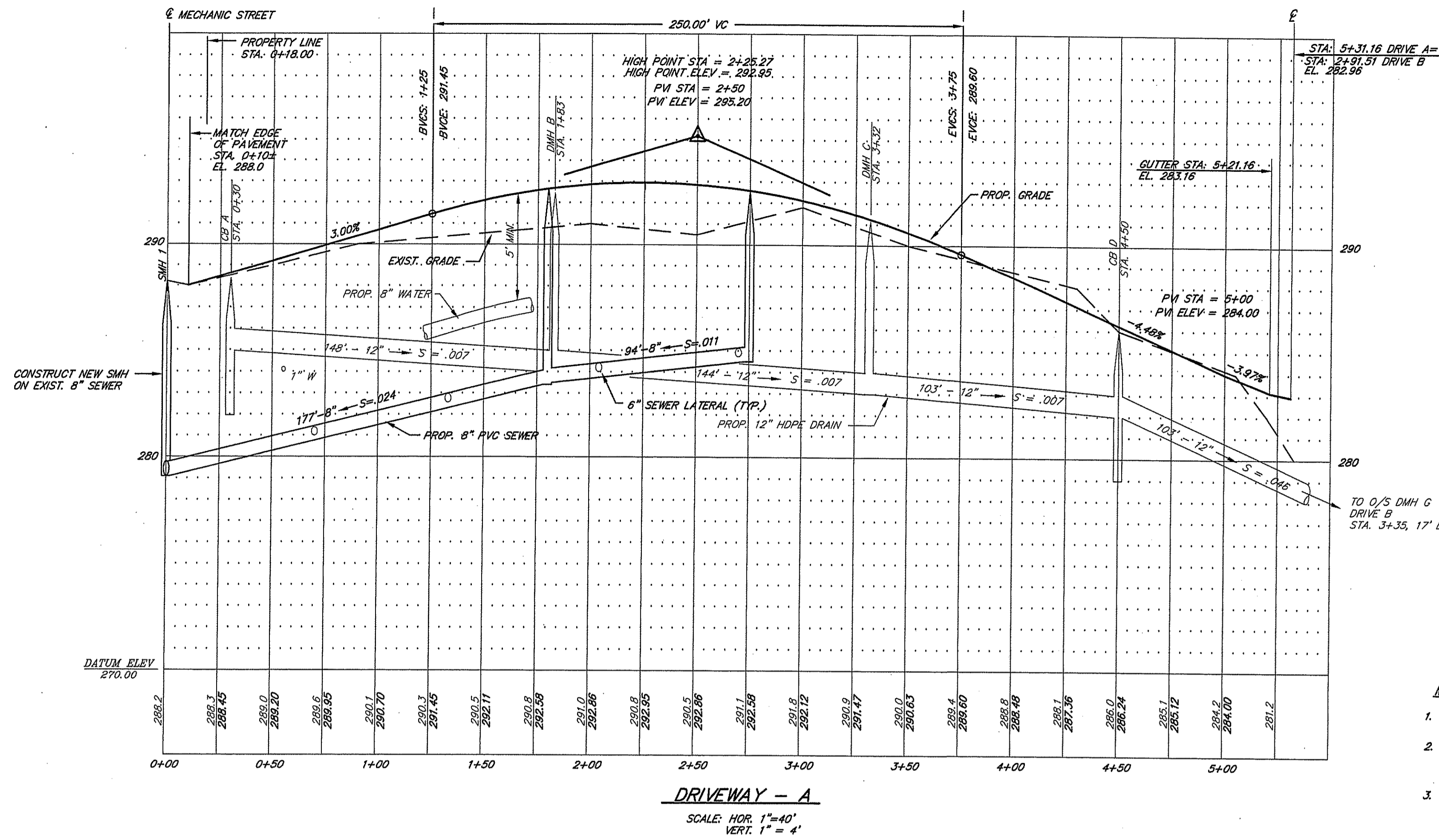
SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER

MARSHFIELD COMMONS
ASSESSOR'S PLAT 1 LOTS 69 & 423
MECHANIC STREET
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR:
NEIGHBORWORKS BLACKSTONE RIVER VALLEY
719 FRONT STREET SUITE 103
WOONSOCKET, R.I. 02895



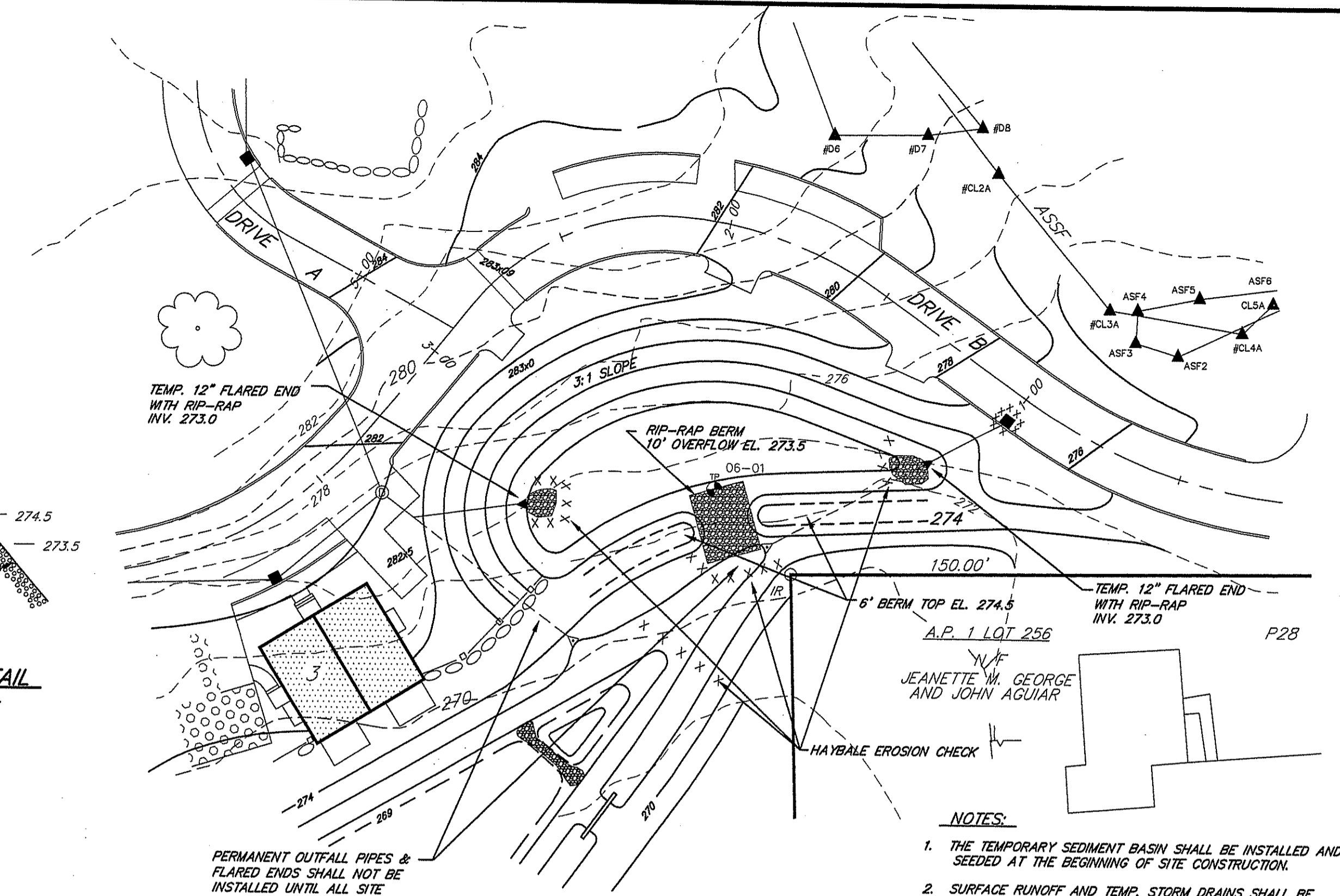
S.F.M. ENGINEERING ASSOCIATES
410 TOIGUE AVENUE
COVENTRY, R.I. 02816
(401)826-3736

UTILITY PLAN
DATE: AUG. 3, 2010 SCALE: 1"=30'
SHEET 5 OF 11



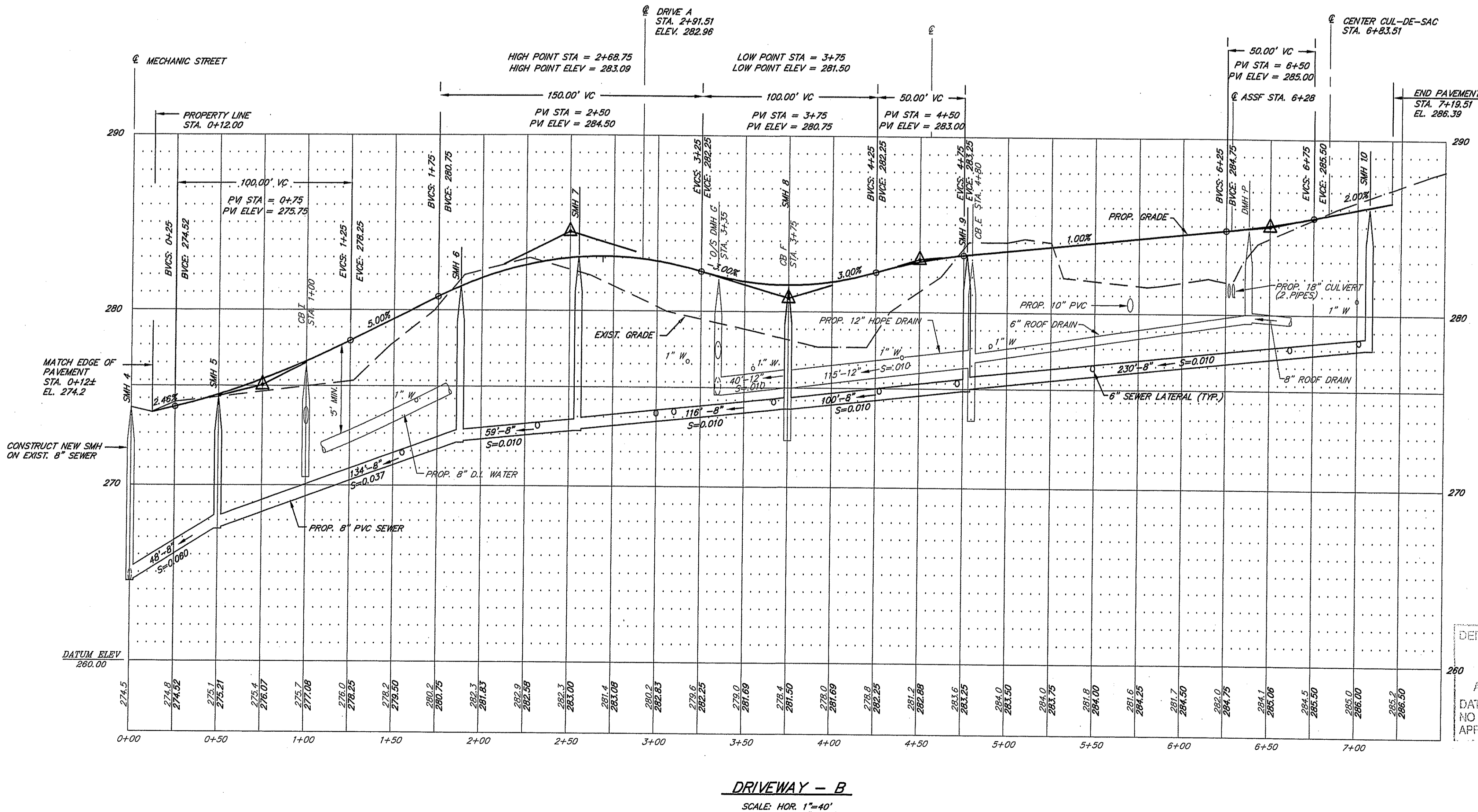
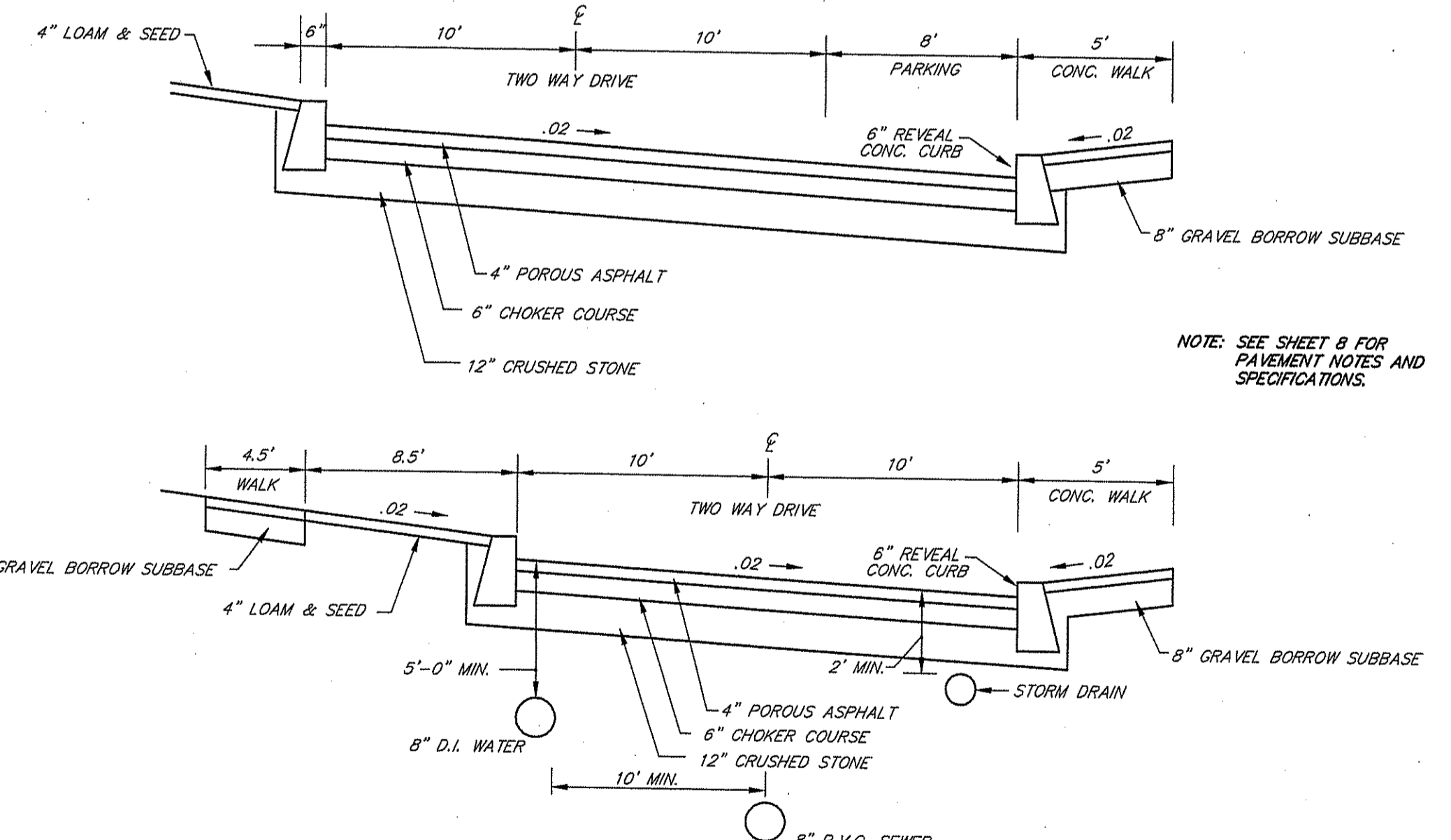
MECHANIC STREET SMH INSTALLATION NOTES:

- EXISTING 8" PVC SEWER SHALL BE PLUGGED AT UPSTREAM SMH. SEWAGE SHALL BE BYPASS PUMPED TO NEXT DOWNSTREAM SMH.
- CUT EXIST. PVC SEWER MAIN, INSTALL NEW SMH WITH PRECONSTRUCTED BRICK SHELF AND CONNECT TO EXIST. MAIN. 4" M.H. STUBS SHALL BE CONNECTED TO THE EXIST. SEWER MAIN WITH MECHANICAL COUPLINGS. FERRULE COUPLINGS ARE NOT ALLOWED.
- UPON INSTALLATION OF SMH, END BYPASS OF SEWAGE CONSTRUCTION SHALL BE SCHEDULED TO MINIMIZE LENGTH OF BYPASS TIME.



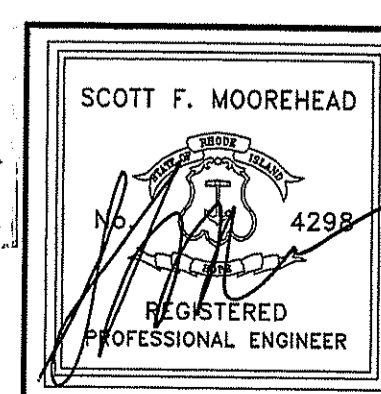
NOTES:

- THE TEMPORARY SEDIMENT BASIN SHALL BE INSTALLED AND SEEDED AT THE BEGINNING OF SITE CONSTRUCTION.
- SURFACE RUNOFF AND TEMP. STORM DRAINS SHALL BE DIRECTED TO THE SEDIMENT BASIN UNTIL THE INFILTRATION BASIN IS COMPLETED AND STABILIZED WITH A GOOD STAND OF GRASS AND THE BALANCE OF THE SITE IS STABILIZED.
- ADDITIONAL TEMPORARY SWALES AND DRAINS SHALL BE INSTALLED AS NECESSARY TO DIRECT RUNOFF TO THE SEDIMENT BASIN.
- SEE SHEET 7 FOR TEMPORARY SEEDING MEASURES AND EROSION AND SEDIMENT CONTROL DETAILS AND NOTES.
- AT ALL TIMES THE PERMANENT INFILTRATION BASIN SHALL BE PROTECTED FROM EROSION AND THE ACCUMULATION OF SILTS AND SEDIMENTS. SEE SHEET 8 FOR INFILTRATION BASIN NOTES AND DETAILS.
- THE BASINS SHALL BE INSPECTED AFTER EVERY RAIN EVENT AND ACCUMULATED SILTS AND SEDIMENTS SHALL BE REMOVED.



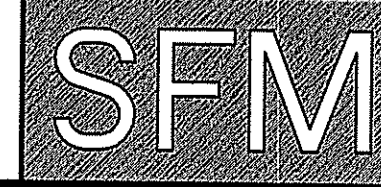
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS
 APPROVED WITH COMMENTS
 AS SPECIFIED IN THE LETTER
 DATED DEC 30 2010 FILE # 10-0161
 NO CHANGES ALLOWED WITHOUT PREVIOUS APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Herbert



DATE	REVISION
4-3-10	UTILITIES
9-14-10	SEWER NOTE
10-18-10	SEWER INVS. & WATER SERVICES
11-10-10	FWW COMMENTS

DWN. BY: LBC DWG. NO. SFM653PP-C

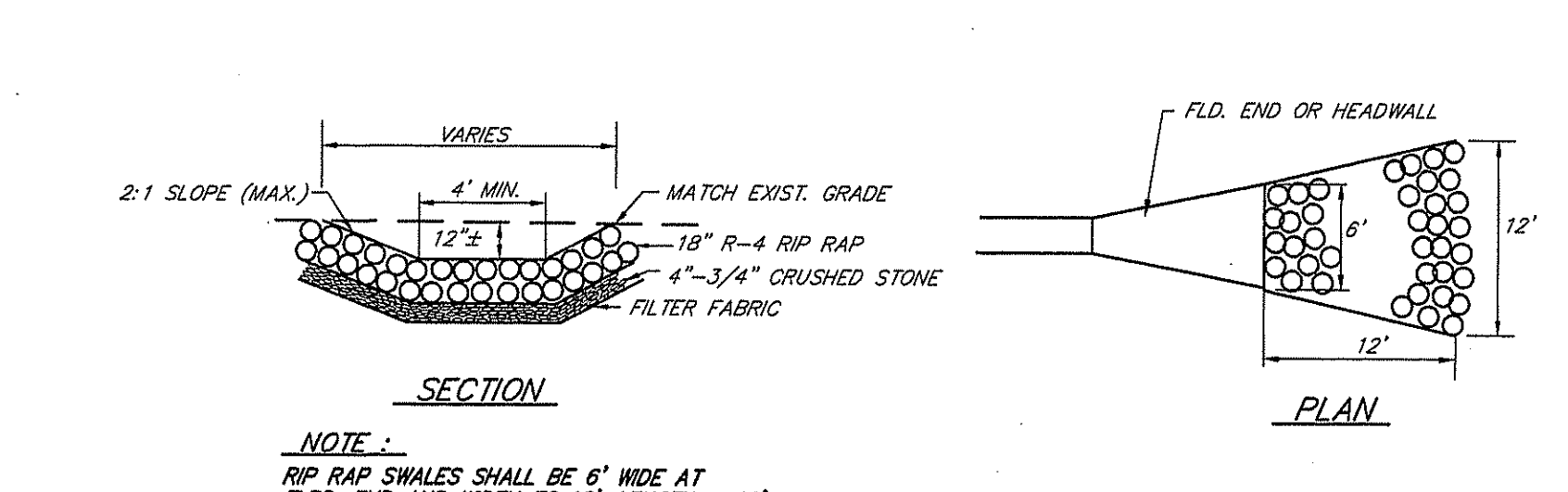
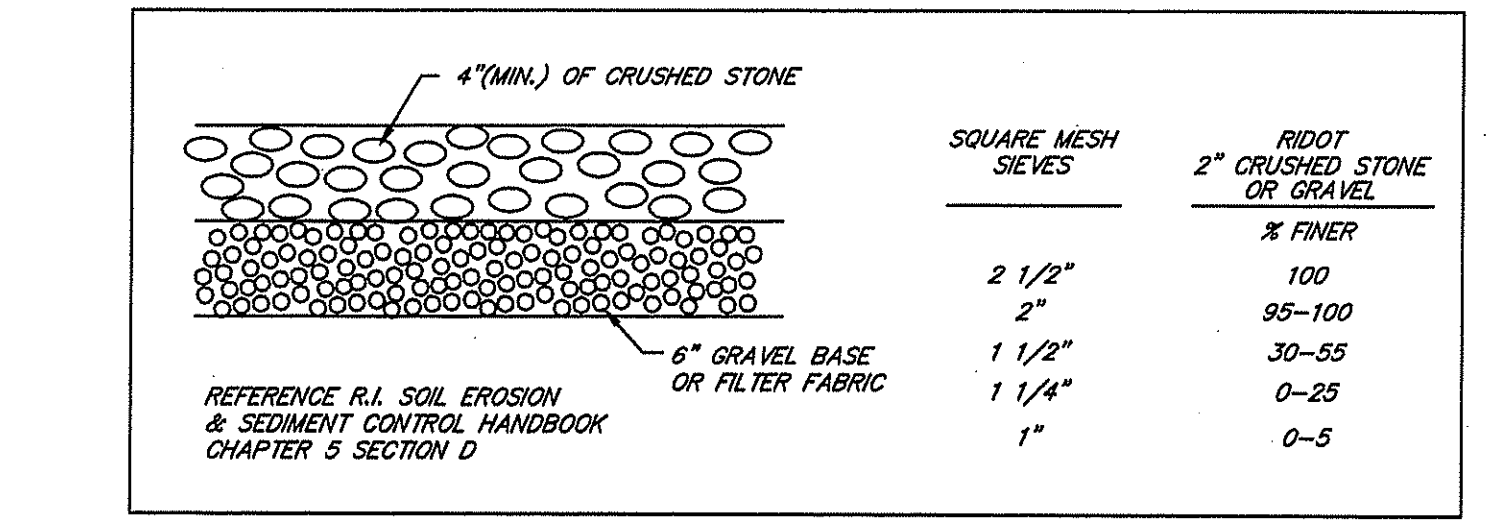
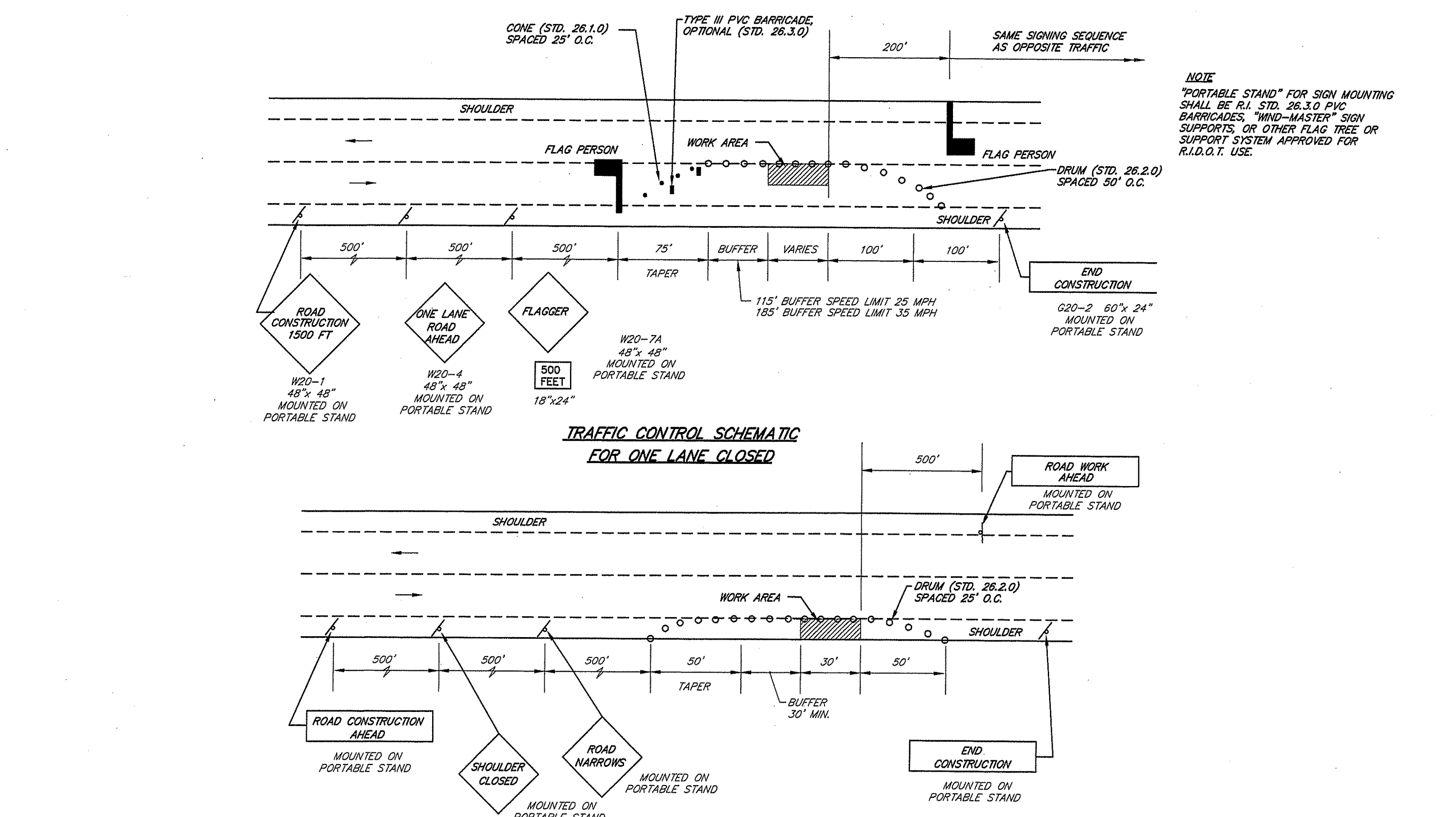
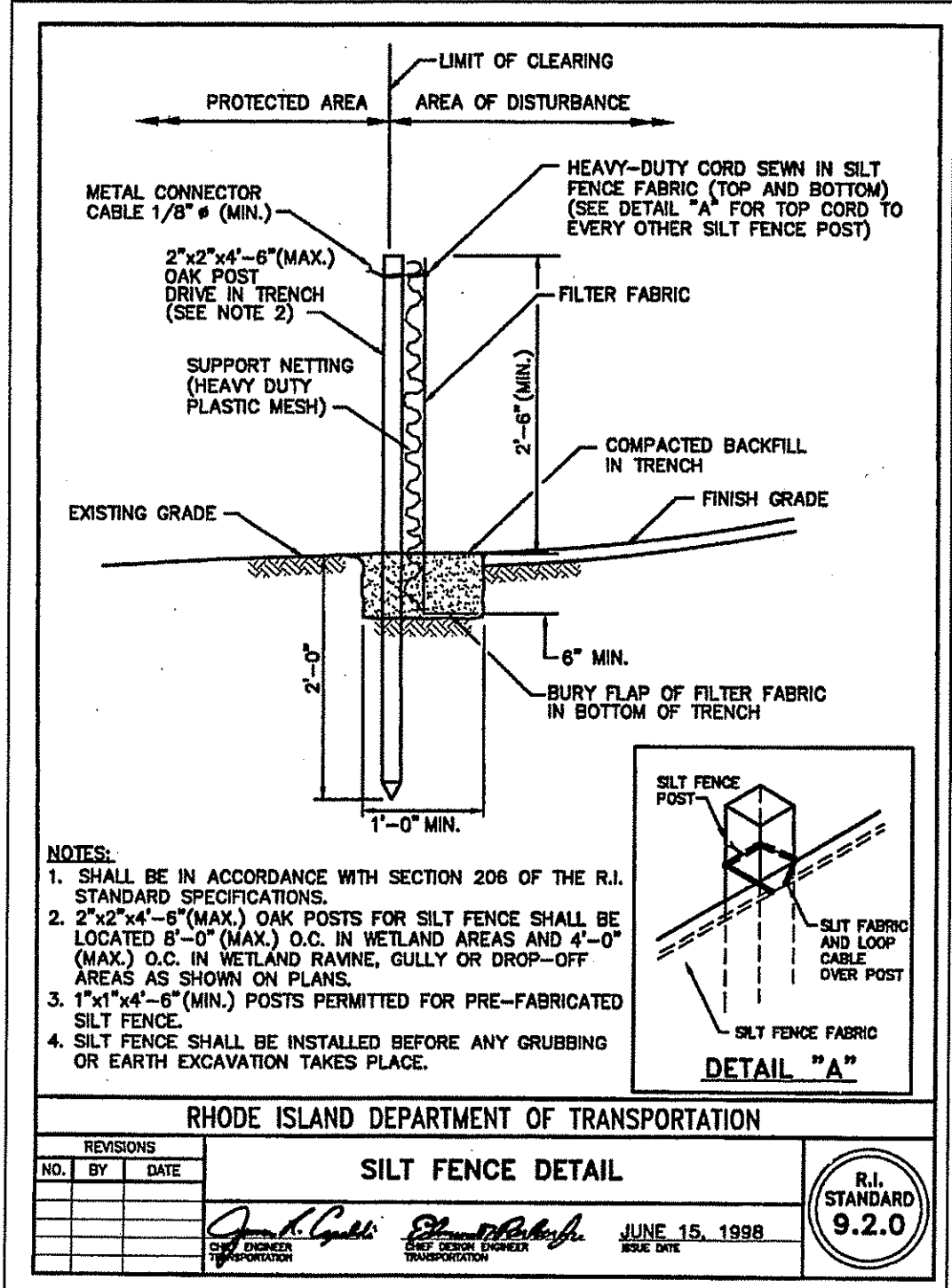
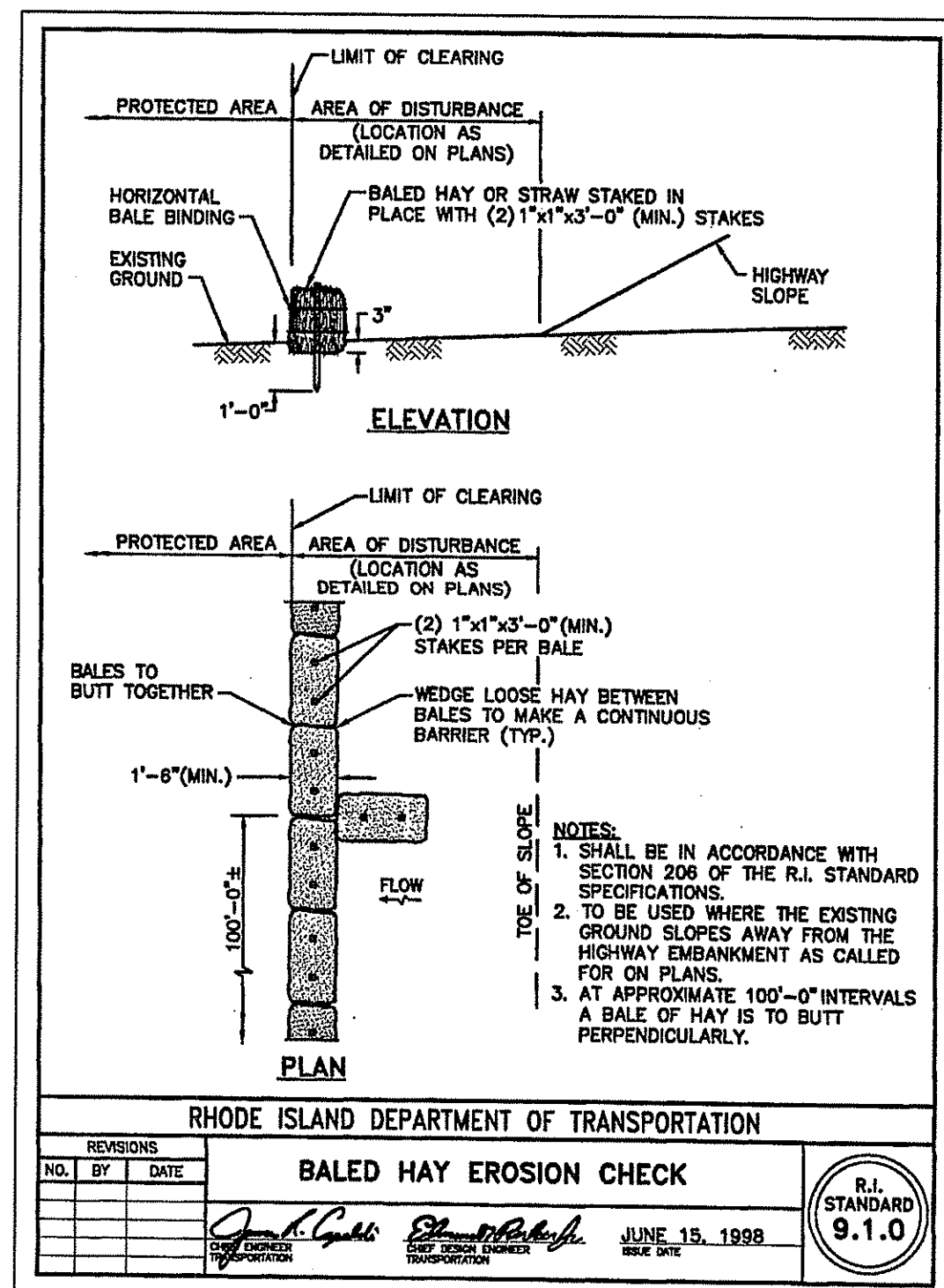
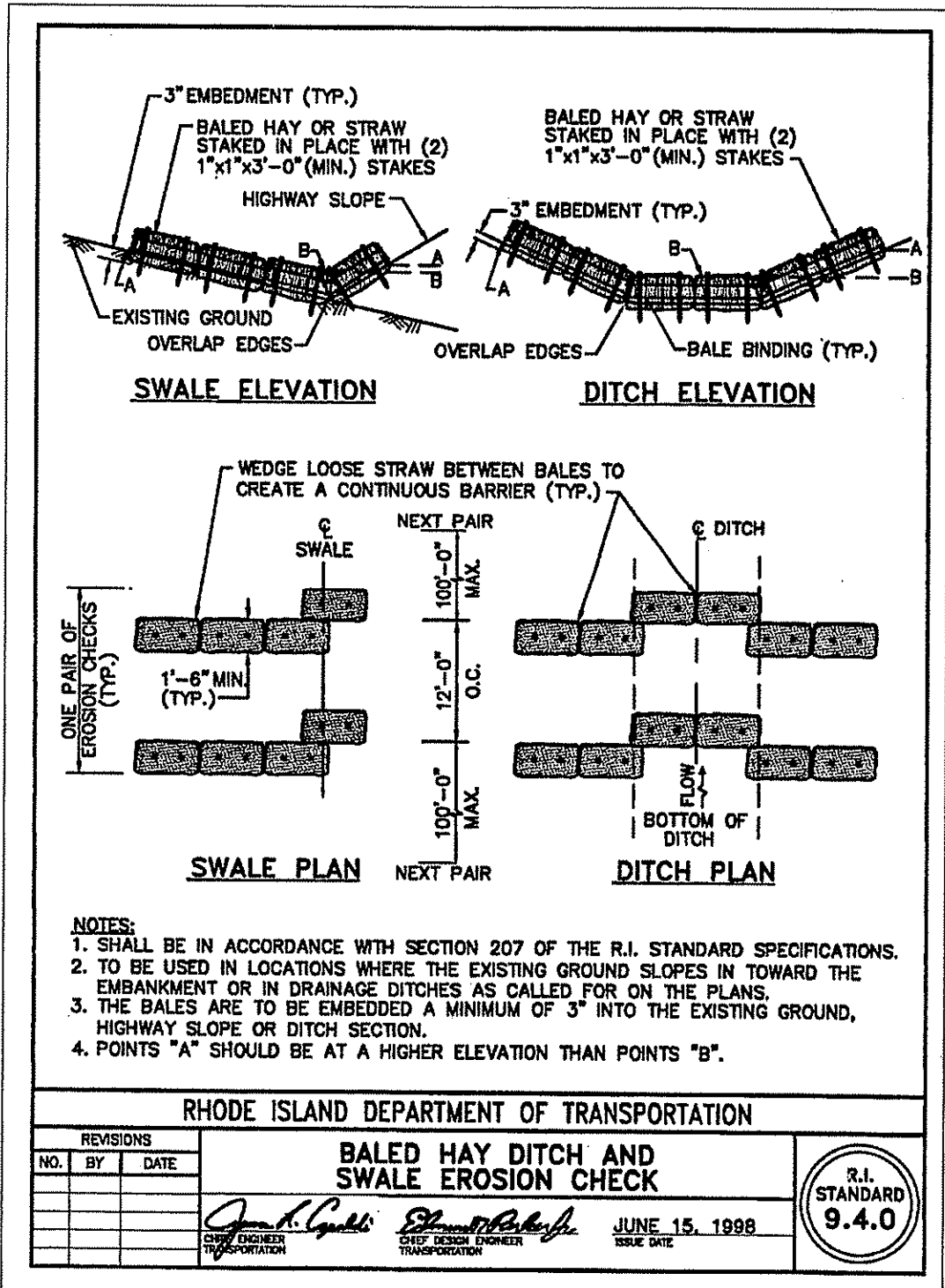
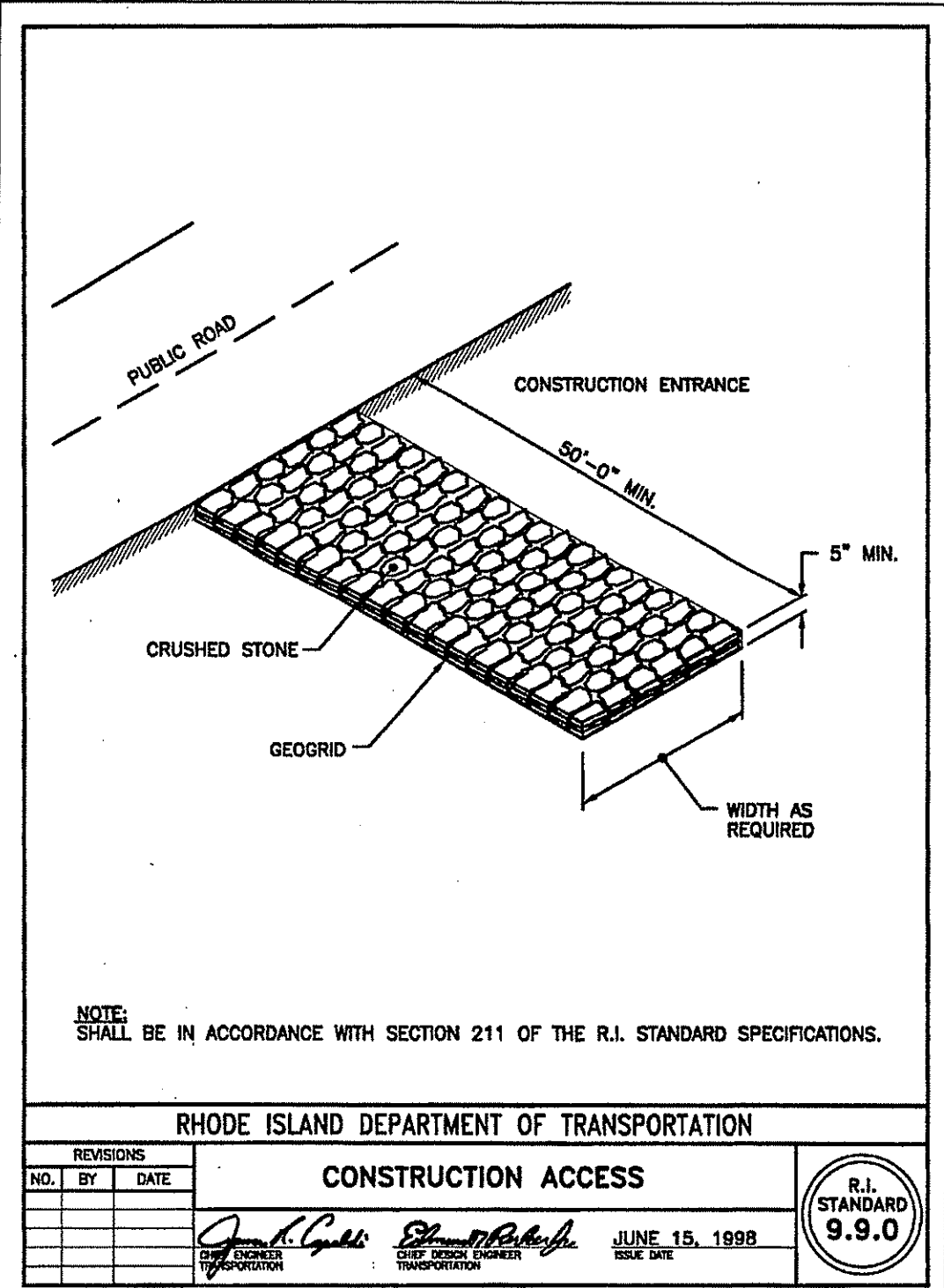
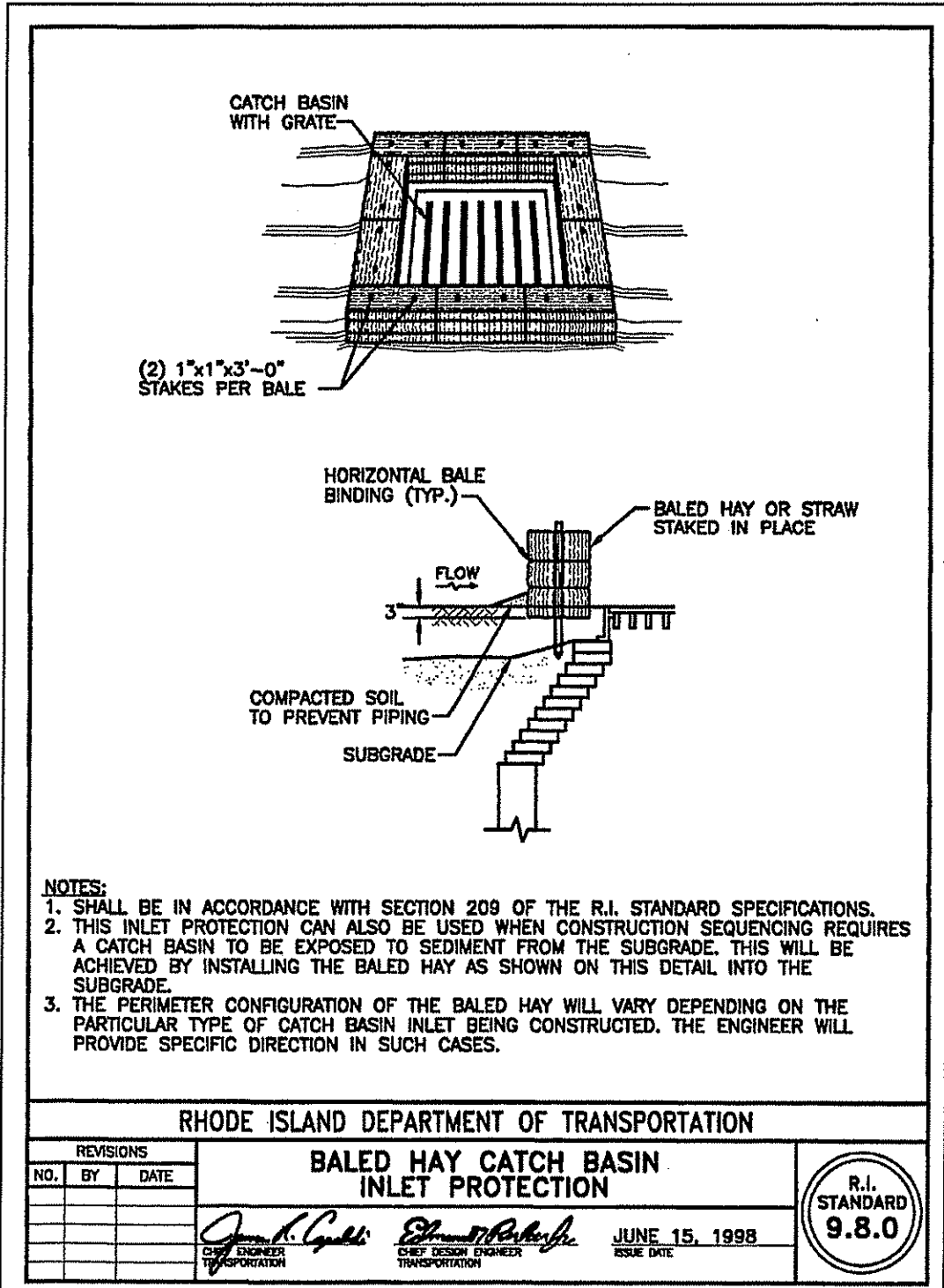


S.F.M. ENGINEERING ASSOCIATES
 410 TIOGUE AVENUE
 COVENTRY, R.I. 02816
 (401)826-3736

MARSHFIELD COMMONS
 ASSESSOR'S PLAT 1 LOTS 69 & 423
 MECHANIC STREET
 NORTH SMITHFIELD, RHODE ISLAND
 PREPARED FOR:
 NEIGHBORWORKS' BLACKSTONE RIVER VALLEY
 719 FRONT STREET SUITE 103
 WOONSOCKET, R.I. 02895

COMPREHENSIVE PERMIT DRIVEWAY PROFILES
 DATE: MAR. 26, 2009 SCALE: AS NOTED SHEET 6 OF 11

Environmental Management
 NOV 18 2010
 Office of Water Resources



- GENERAL NOTES**
- ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 8-30-2008) WITH ALL CORRECTIONS AND ADDENDA AND THE 11-10-2008 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA. THE LATEST R.I.D.O.T. SPECIFICATIONS AND DETAILS ARE AVAILABLE ONLINE AT WWW.DOT.RI.GOV/ENGINEERING
 - EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEEDED. SEE EROSION CONTROL PROGRAM.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
 - IN ALL EXCAVATION AND REPLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
 - ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS AND OTHER REFUSE SHALL BE DISCARDED OFF SITE OUTSIDE OF ALL WETLANDS AND WETLANDS SETBACK AREAS UNLESS OTHERWISE SPECIFIED.
 - ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL STATE AND TOWN REGULATIONS AND PERMITS.
- EROSION CONTROL & SOIL STABILIZATION PROGRAM**
- DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
 - ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
 - THE TOP SOIL 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 R.I. STANDARD SPECIFICATION M. 20.
 - THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
 - THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING PERMANENT SEEDING MIXTURES:
- SEDIMENTATION CONTROL PROGRAM**
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE WETLANDS OR ADJOINING PROPERTIES.
 - BANKS OR SLOPES OVER 5 PERCENT SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
 - DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
 - SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
 - CARE SHALL BE TAKEN SO NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORM WATER FLOW.
 - ADDITIONAL HAYBALES, SILT FENCE OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
 - REFERENCE THE "R.I. EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, AS A GUIDE.

- ORDER OF PROCEDURE**
- PRIOR TO ANY CONSTRUCTION OR EXCAVATION, HAYBALES OR SILT FENCE SHALL BE INSTALLED AT THE PROPERTY LINE OR LIMIT OF DISTURBANCE. TEMPORARY HAYBALES OR SILT FENCE SHALL BE INSTALLED AT THE LIMIT OF WORK ACTIVITY IF CONSTRUCTION IS TO BE DONE IN PHASES.
 - ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
 - IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.
 - TEMPORARY HAYBALES AND SANDBAGS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.
 - HAYBALES LOCATED AT DRAINAGE INLETS OR OUTLETS MUST REMAIN UNTIL SUCH TIME THAT A DESIRABLE STAND OF GRASS OR GROUND COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.
- CONSERVATION SEEDING AREAS**
- | MIXTURE | % BY WT. | SEEDING DATES |
|--------------------|------------|-----------------|
| TALL FESCUE | 32 | APRIL 1-JUNE 15 |
| PERENNIAL RYEGRASS | 18 | APRIL 1-JUNE 15 |
| WILDFLOWER MIX | 15 | AUG. 15-OCT. 15 |
| REED CANARY GRASS | 7 | |
| REDTOP | 4 | |
| TOTAL | 200 LBS/AC | |
- SEEDING AREAS**
- | MIXTURE | % BY WT. | SEEDING DATES |
|--------------------|-----------|---------------|
| ANNUAL RYEGRASS | 1.0 - 1.5 | 3/1 - 6/1 |
| PERENNIAL RYEGRASS | 1.0 - 1.5 | 40 - 60 |
| SUDAN GRASS | 0.7 - 1.0 | 3/1 - 6/1 |
| MILLET | 0.7 - 1.0 | 30 - 40 |
| WINTER RYE | 3.0 | 5/15 - 6/15 |
| | | 4/15 - 6/15 |
- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
 - HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 LBS/AC.
 - ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:
 - THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
 - THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 - OCTOBER 15.
 - ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I.D.P.W. STD. SPECIFICATIONS SECTION 202.
 - STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
 - STOCKPILES OF TOPSOILS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED.
 - ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
 - REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER QUALITY
 FRESHWATER WATERSHEDS DIVISION
 APPROVED WITH CONSTRUCTION
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED DEC 30 2010 FILE # 10-0161
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Moorehead

SCOTT F. MOOREHEAD
 No. 4298
 REGISTERED PROFESSIONAL ENGINEER

DATE	REVISION
4-3-10	DETAILS
9-14-10	TRAFFIC DETAILS
11-10-10	FWW COMMENTS

DWN. BY: LBC DWG. NO. SFM653ER-C

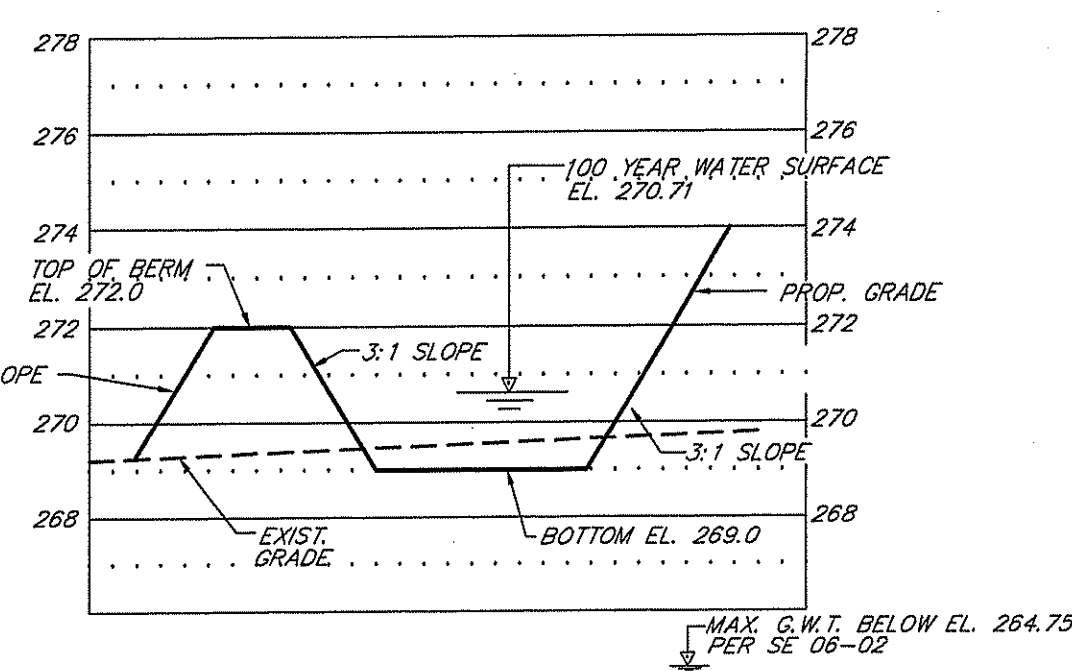
SFM
 S.F.M. ENGINEERING ASSOCIATES
 410 TIOGUE AVENUE
 COVENTRY, R.I. 02816
 (401)826-3736

MARSHFIELD COMMONS
 ASSESSOR'S PLAT 1 LOTS 69 & 423
 MECHANIC STREET
 NORTH SMITHFIELD, RHODE ISLAND
 PREPARED FOR:
 NEIGHBORWORKS BLACKSTONE RIVER VALLEY
 719 FRONT STREET SUITE 103
 WOONSOCKET, R.I. 02895

EROSION CONTROL & TRAFFIC CONTROL NOTES & DETAILS

DATE: MAR. 26, 2009 SCALE: AS NOTED SHEET 7 OF 11

Environmental Management
 NOV 19 2010
 Office of Water Resources

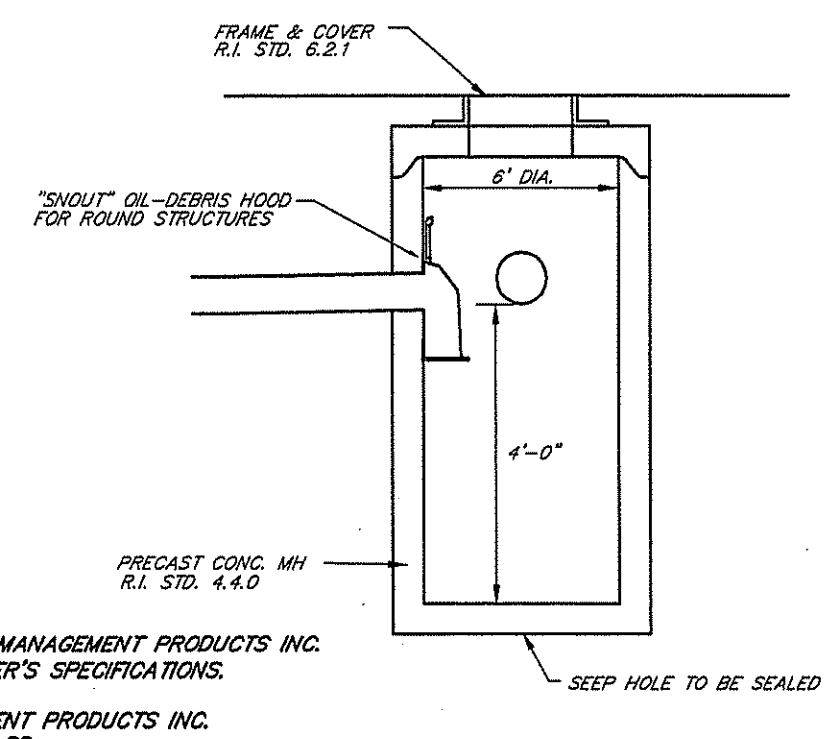


CROSS SECTION - INFILTRATION BASIN
SCALE: HOR. 1" = 20'
VERT. 1" = 4'

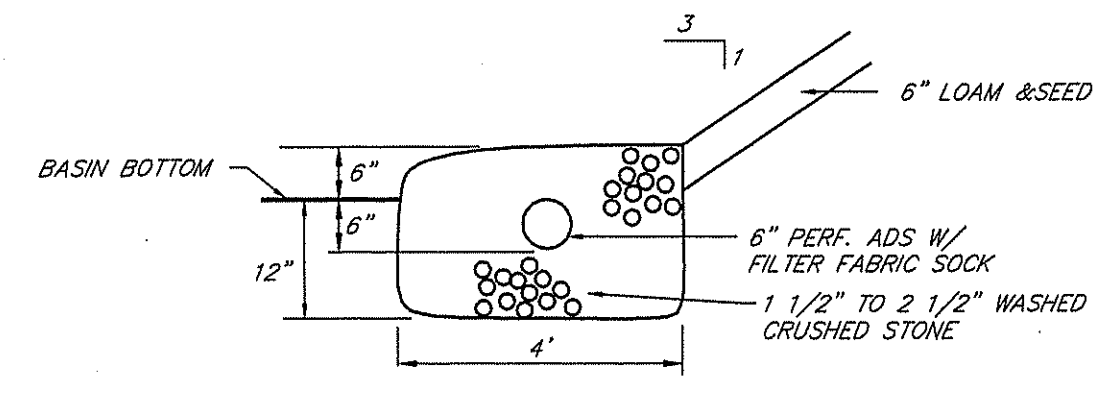
INFILTRATION BASIN - DIMENSION TABLE

ELEV. (FT.)	AREA (S.F.)	AVG. LENGTH	AVG. WIDTH	OUTLET DATA
269	4,813	190'	22'	5' Ø MH OVERFLOW WEIR, EL. 270.75
270	6,982	236'	28'	10' OVERFLOW WEIR, EL. 271.00
272	11,755	288'	40'	

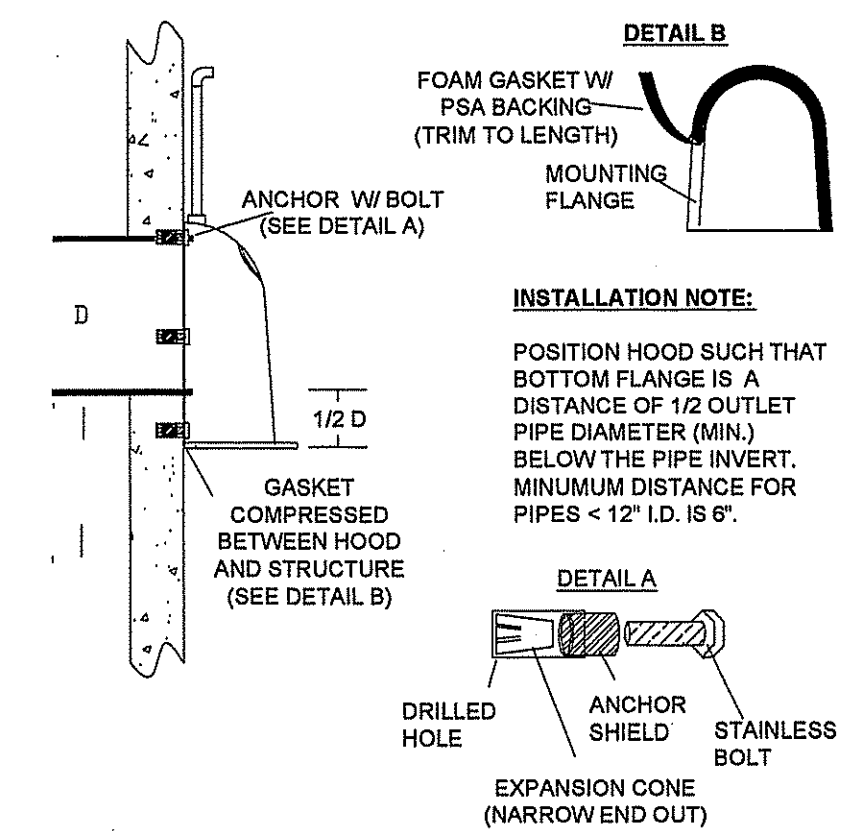
NOTE: SNOUT HOOD BY: BEST MANAGEMENT PRODUCTS INC. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
CONTACT: BEST MANAGEMENT PRODUCTS INC. 53 MT. ARCHER RD. LYME, CT. 06371 TOLL FREE: (800) 504-8008



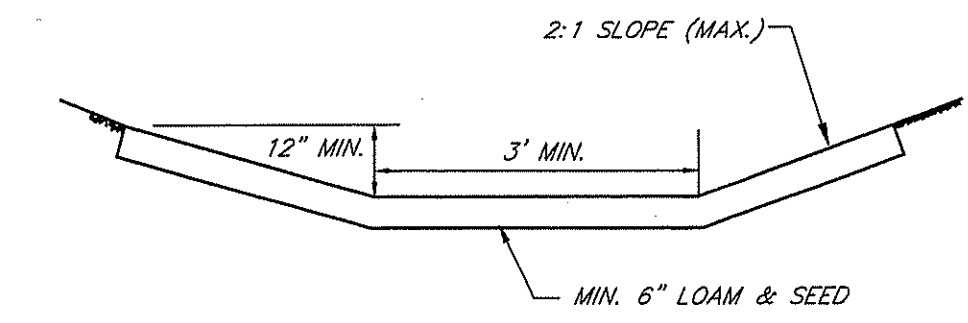
OIL SEPARATOR CATCH BASIN DETAIL
NOT TO SCALE



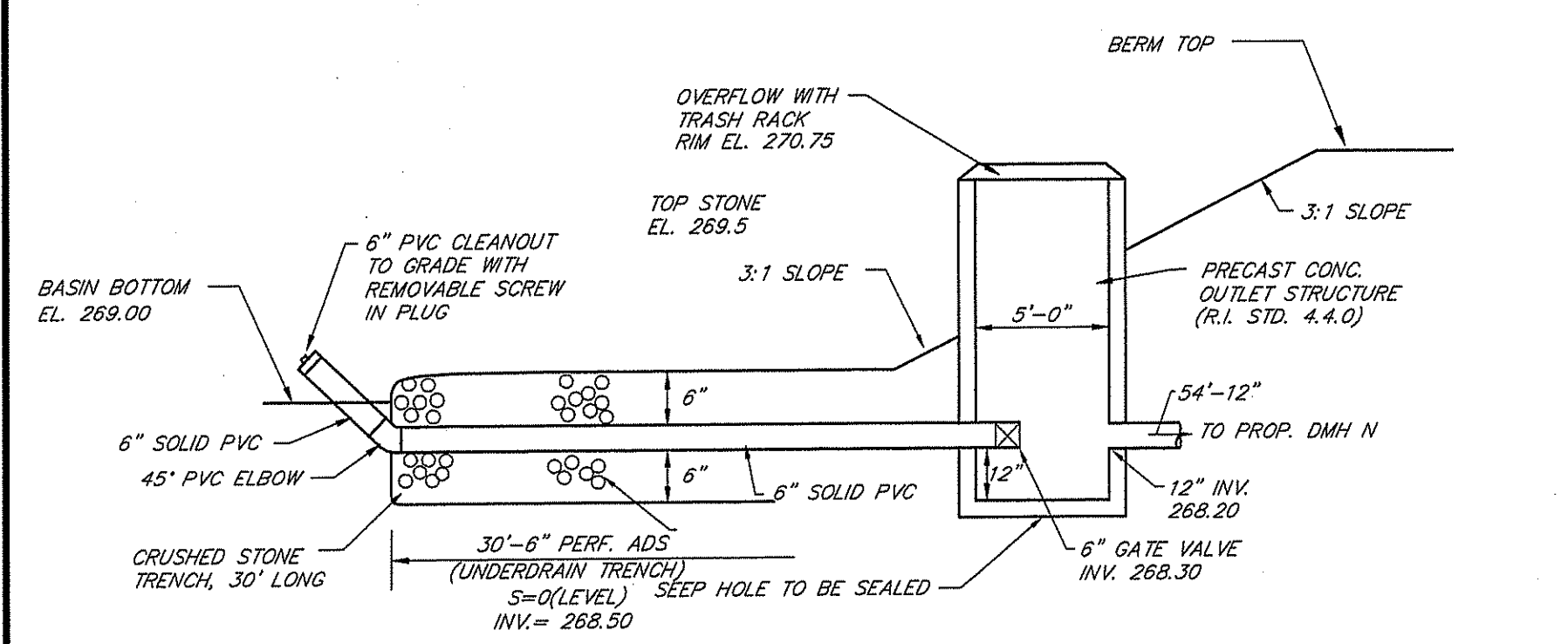
UNDERDRAIN TRENCH
NOT TO SCALE



SNOUT INSTALLATION DETAIL
NOT TO SCALE

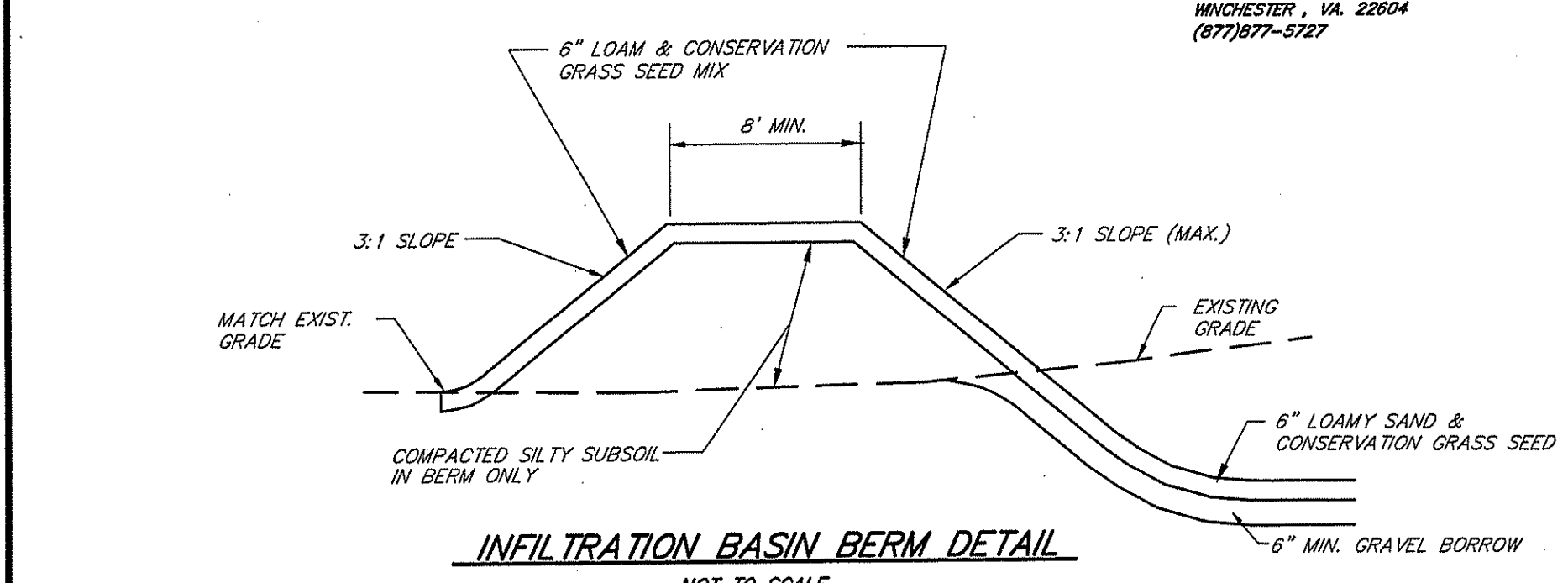


GRASS SWALE DETAIL
NOT TO SCALE



UNDERDRAIN DETAIL - INFILTRATION BASIN
NOT TO SCALE

NOTE: TRASH RACK BY ACF ENVIRONMENTAL OR EQUAL PLASTIC PYRAMID STYLE INLET PROTECTION. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
CONTACT: PLASTIC SOLUTIONS INC. P.O. BOX 4366 WINCHESTER, VA 22604 (877)877-5272



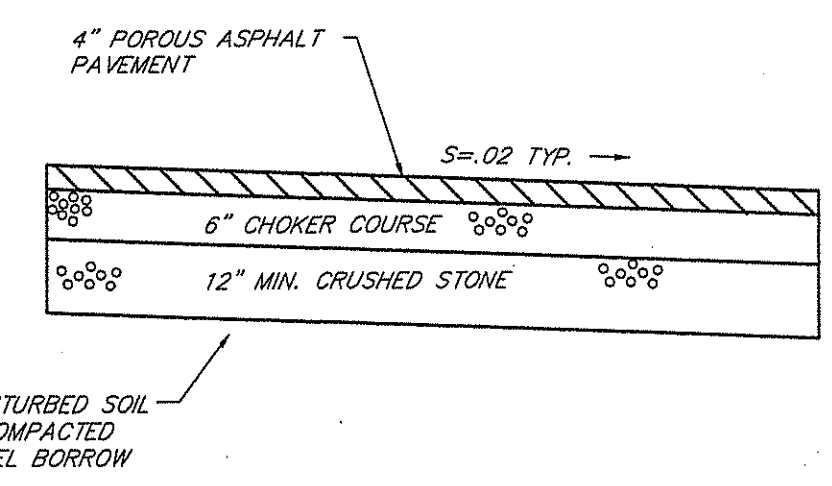
INFILTRATION BASIN BERM DETAIL
NOT TO SCALE

POROUS ASPHALT SPECIFICATIONS

- MATERIALS SHALL MEET THE REQUIREMENTS OF THE NAPA DESIGN, CONSTRUCTION AND MAINTENANCE OF OPEN GRADED FRICTION COURSES, INFORMATION SERIES 115 (2002) EXCEPT WHERE NOTED OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
- THE ASPHALT BINDER SHALL BE A POLYMER OR FIBER MODIFIED PERFORMANCE GRADED ASPHALT BINDER, PG 64-28 SBS OR SBR WITH 5 POUNDS OF FIBER PER TON OF ASPHALT MIX.
- AGGREGATE COURSES SHALL BE COMPACTED TO A STANDARD PROCTER DENSITY OF 90% MIN., 95% MAX.
- THE MIXING PLANT, HAULING AND PLACING EQUIPMENT, AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH NAPA IS 131 AND APPLICABLE SECTIONS OF THE RIDOT SPECIFICATIONS FOR ASPHALT MIXES.
- THE POROUS ASPHALT SHALL BE PLACED EITHER IN A SINGLE APPLICATION AT 4 INCHES THICK OR IN TWO LIFTS. IF MORE THAN ONE LIFT IS USED GREAT CARE SHALL BE TAKEN TO INSURE THAT THE POROUS ASPHALT LAYERS JOIN COMPLETELY. THE CONTRACTOR SHALL PROTECT ALL EXPOSED SURFACES FROM DAMAGE DURING ALL PHASES OF THE PAVEMENT OPERATION.
- THE FULL PERMEABILITY OF THE PAVEMENT SURFACE SHALL BE TESTED BY APPLICATION OF CLEAN WATER AT THE RATE OF AT LEAST 5 GPM OVER THE SURFACE. ALL APPLIED WATER SHALL INFILTRATE DIRECTLY WITHOUT LARGE PUDDLE FORMATION OR SURFACE RUNOFF, AND SHALL BE OBSERVED BY THE ENGINEER.
- TESTING AND INSPECTION: AN INSPECTION FIRM ACCEPTABLE TO THE ENGINEER SHALL BE RETAINED TO PERFORM SOIL INSPECTION SERVICES, MATERIALS TESTING AND INSPECTION, AND PAVEMENT INSTALLATION INSPECTION. THE INSPECTION SCHEDULE AND LISTS OF TESTS SHALL BE REVIEWED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO CONSTRUCTION. ALL THE TEST REPORTS MUST BE SIGNED BY A LICENSED ENGINEER.

POROUS PAVEMENT MAINTENANCE NOTES:

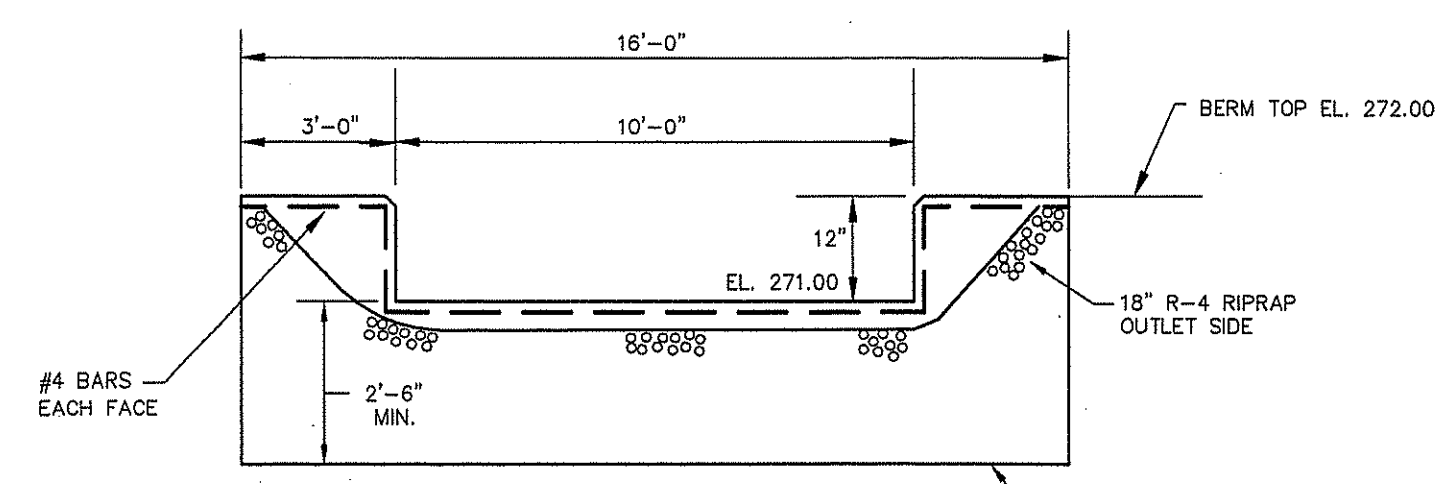
- PAVEMENT AND CRUSHED STONE SHALL NOT BE INSTALLED UNTIL THE SITE IS READY FOR CONTINUOUS PAVEMENT INSTALLATION AND ALL UPGRADIENT AREAS ARE STABILIZED WITH TURF OR MULCH.
- POROUS PAVEMENT AREAS SHALL BE PROTECTED AT ALL TIMES FROM EROSION AND SILTATION UNTIL THE SITE IS PERMANENTLY STABILIZED.
- PAVEMENT SURFACES SHALL BE INSPECTED AFTER RAIN EVENTS BY MAINTENANCE PERSONNEL. ACCUMULATED DEBRIS AND SEDIMENTS SHALL BE REMOVED AS SOON AS POSSIBLE.
- THE USE OF DE-ICING SAND AND SALT SHALL BE KEPT TO THE MINIMUM NECESSARY.
- PAVEMENT SURFACES SHALL BE VACUUM CLEANED WITH PAVEMENT SWEEPERS THREE TIMES PER YEAR AT END OF WINTER, MID-SUMMER AND AFTER AUTUMN LEAF DROP.
- IF PONDING ON THE SURFACE OCCURS AND ROUTINE CLEANING DOES NOT RESTORE INFILTRATION, THEN RECONSTRUCTION OF THE AREA OF FAILURE SHALL BE REQUIRED. POROUS PAVEMENT SHALL BE REMOVED, CRUSHED STONE CLOGGED WITH SILTS SHALL BE REPLACED AND POROUS PAVEMENT REINSTALLED.



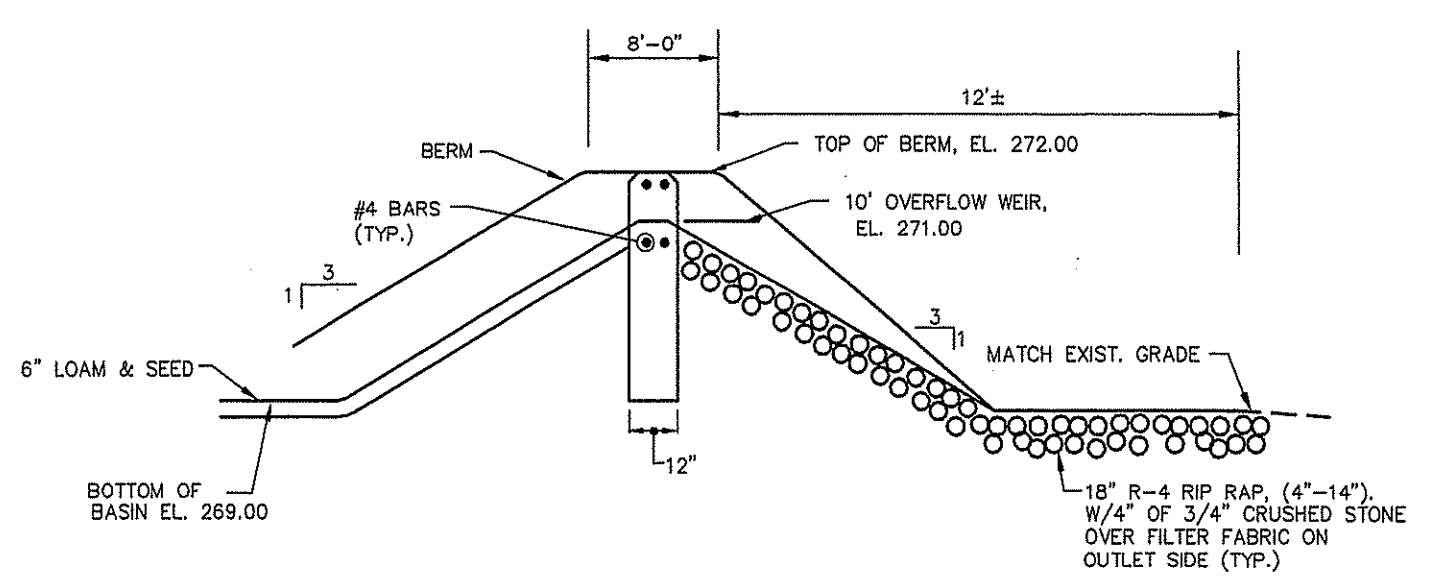
POROUS PAVEMENT SECTION
SCALE: 1" = 4'

POROUS ASPHALT MIX

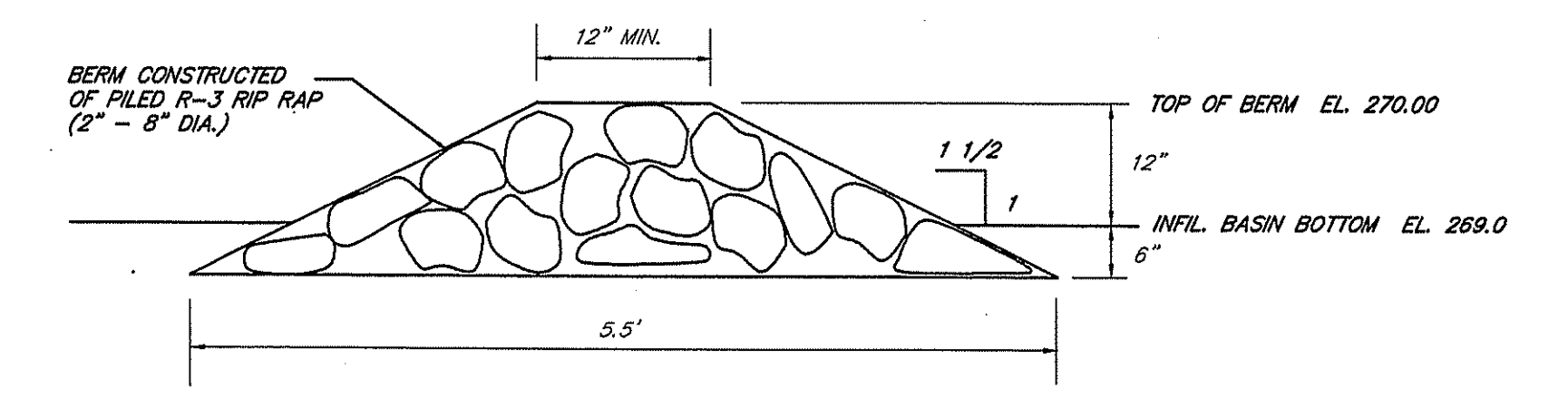
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
3/4"	100	1 1/2"	100
1/2"	85 - 100	1"	90 TO 100
3/8"	55 - 75	3/4"	20 TO 65
NO. 4	10 - 25	1/2"	0 TO 10
NO. 200	2 - 4	3/8"	0 - 5
	6 - 6.5%	NO. 4	0
BINDER CONTENT		FIBER CONTENT	
0.3% CELLULOSE OR 0.4% MINERAL		RUBBER SOLIDS (SBR) CONTENT	
1.5 - 3%		AIR VOID CONTENT	
16.0 - 22.0%		DRAINDOWN	
≤ 0.3%		RETAINED TENSILE STRENGTH	
≥ 80%		CANTABRO ABRASION TEST (UNAGED)	
≤ 20%		CANTABRO ABRASION TEST (7 DAY)	
≤ 30%			



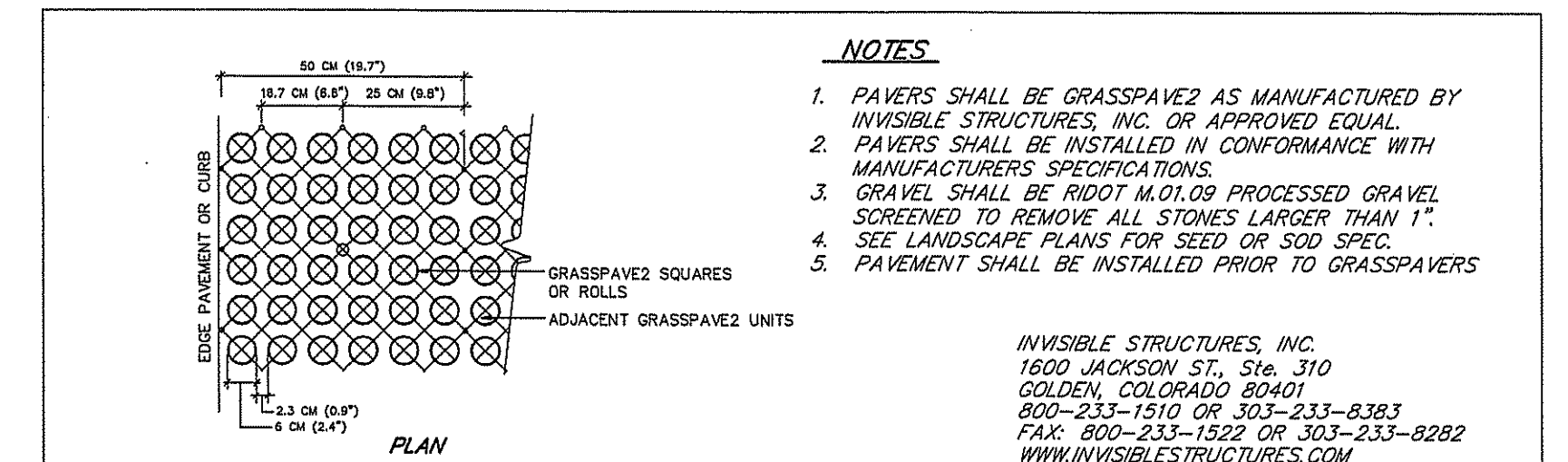
INFILTRATION BASIN CONCRETE OVERFLOW WEIR DETAIL
NOT TO SCALE



INFILTRATION BASIN CONCRETE OVERFLOW WEIR DETAIL
NOT TO SCALE



SEDIMENT FOREBAY RIP RAP BERM
NOT TO SCALE



TYPICAL GRASSPAVER DETAIL
NOT TO SCALE

NOTES

- PAVERS SHALL BE GRASSPAVERS AS MANUFACTURED BY INVISIBLE STRUCTURES, INC. OR APPROVED EQUAL.
- PAVERS SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.
- GRAVEL SHALL BE RIDOT M.01.09 PROCESSED GRAVEL SCREENED TO REMOVE ALL STONES LARGER THAN 1".
- SEE LANDSCAPE PLANS FOR SEED OR SOO SPEC.
- PAVEMENT SHALL BE INSTALLED PRIOR TO GRASSPAVERS.

INVISIBLE STRUCTURES, INC.
1600 JACKSON ST., Ste. 310
GOLDEN, COLORADO 80401
800-233-1510 OR 303-233-8383
FAX: 800-233-1522 OR 303-233-8282
WWW.INVISIBLESTRUCTURES.COM

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 30 2010 FILE # 10-0161
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hackett

SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
No. 4298

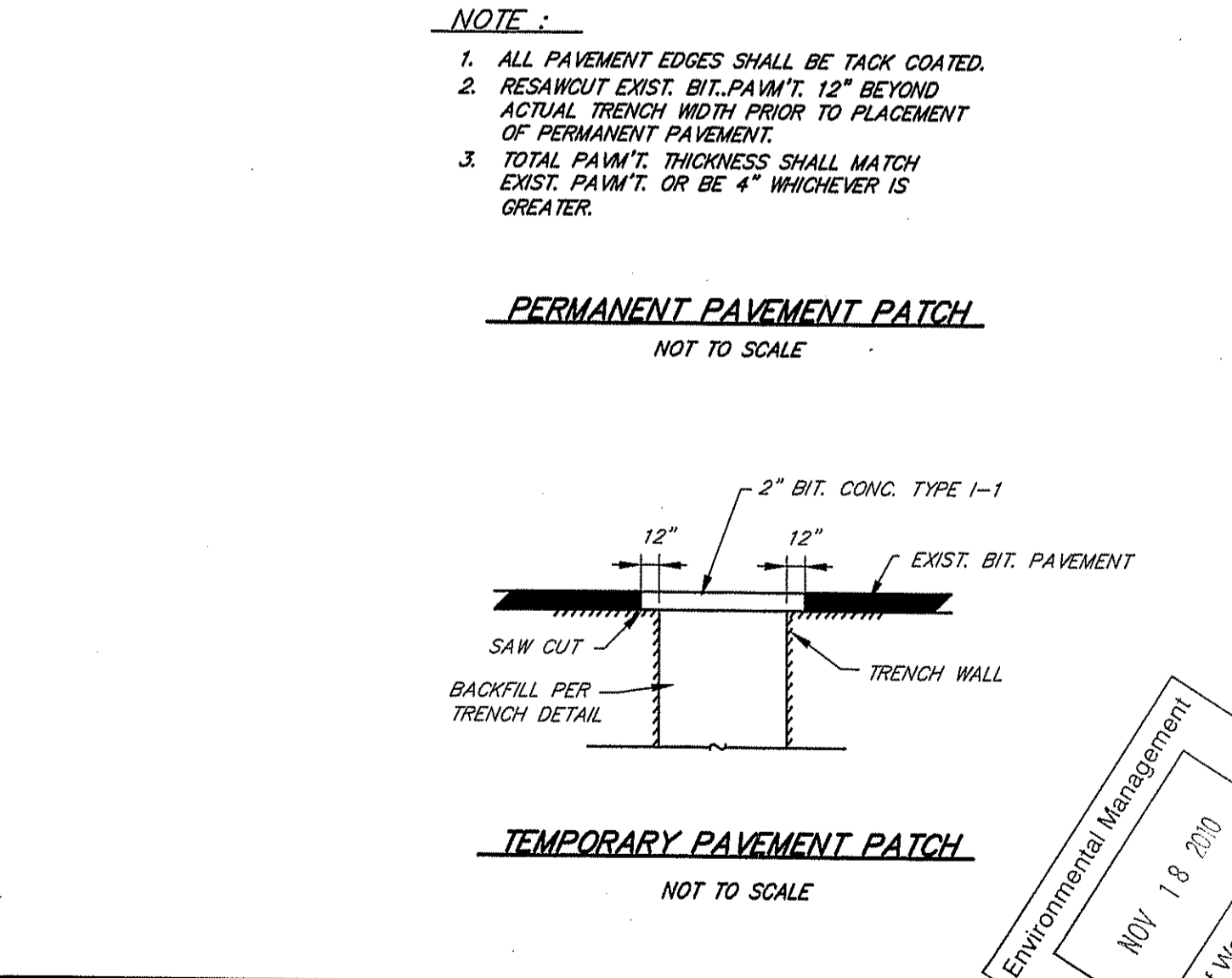
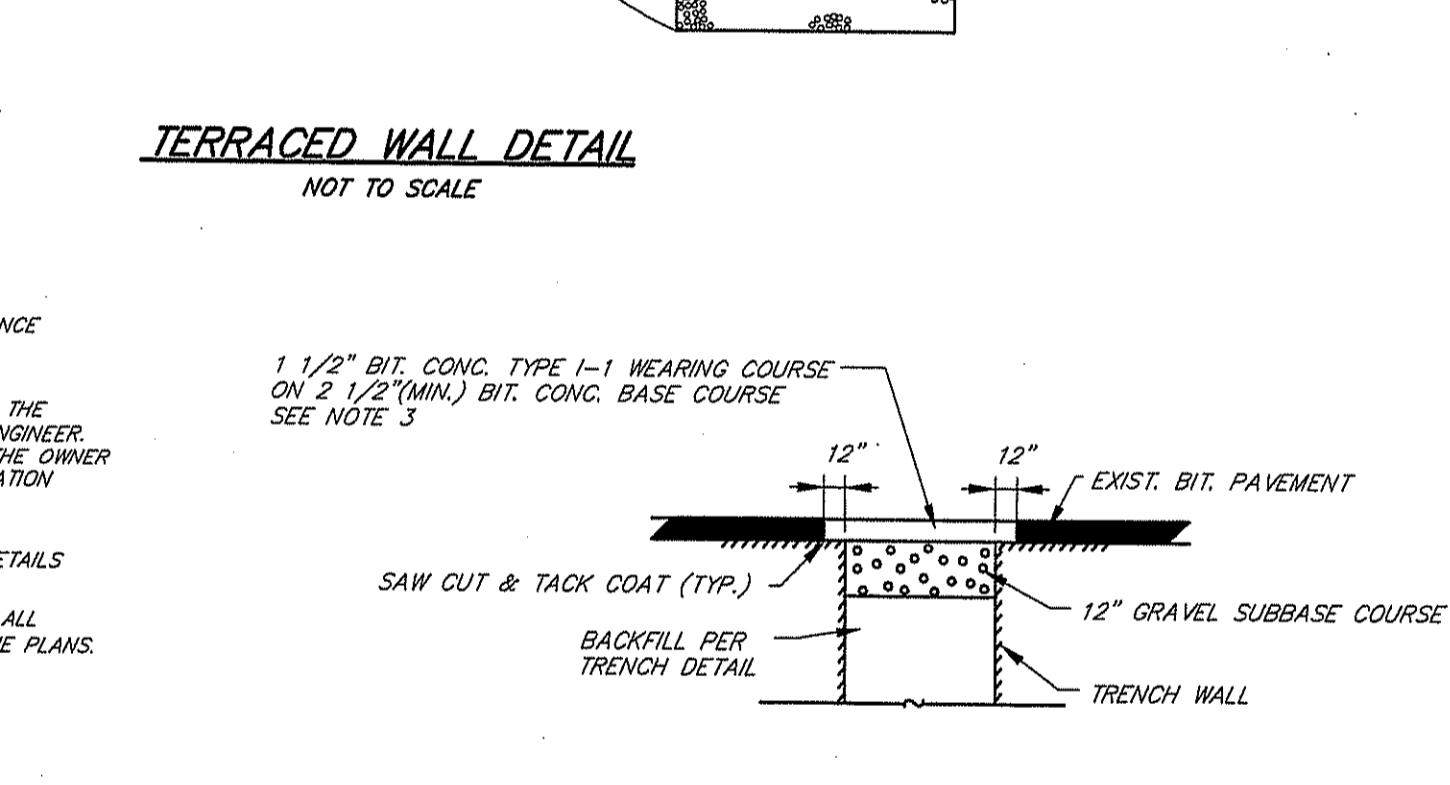
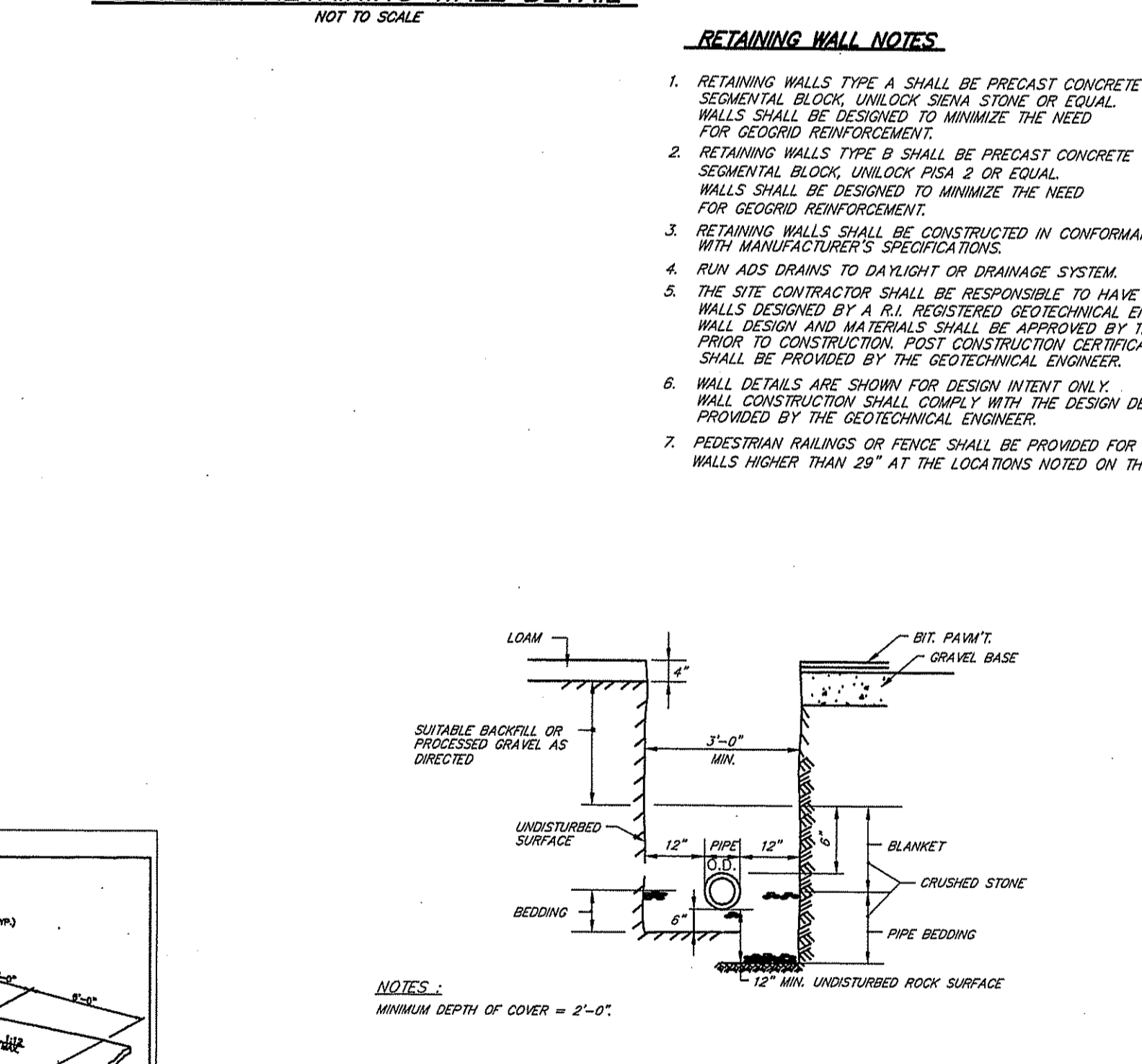
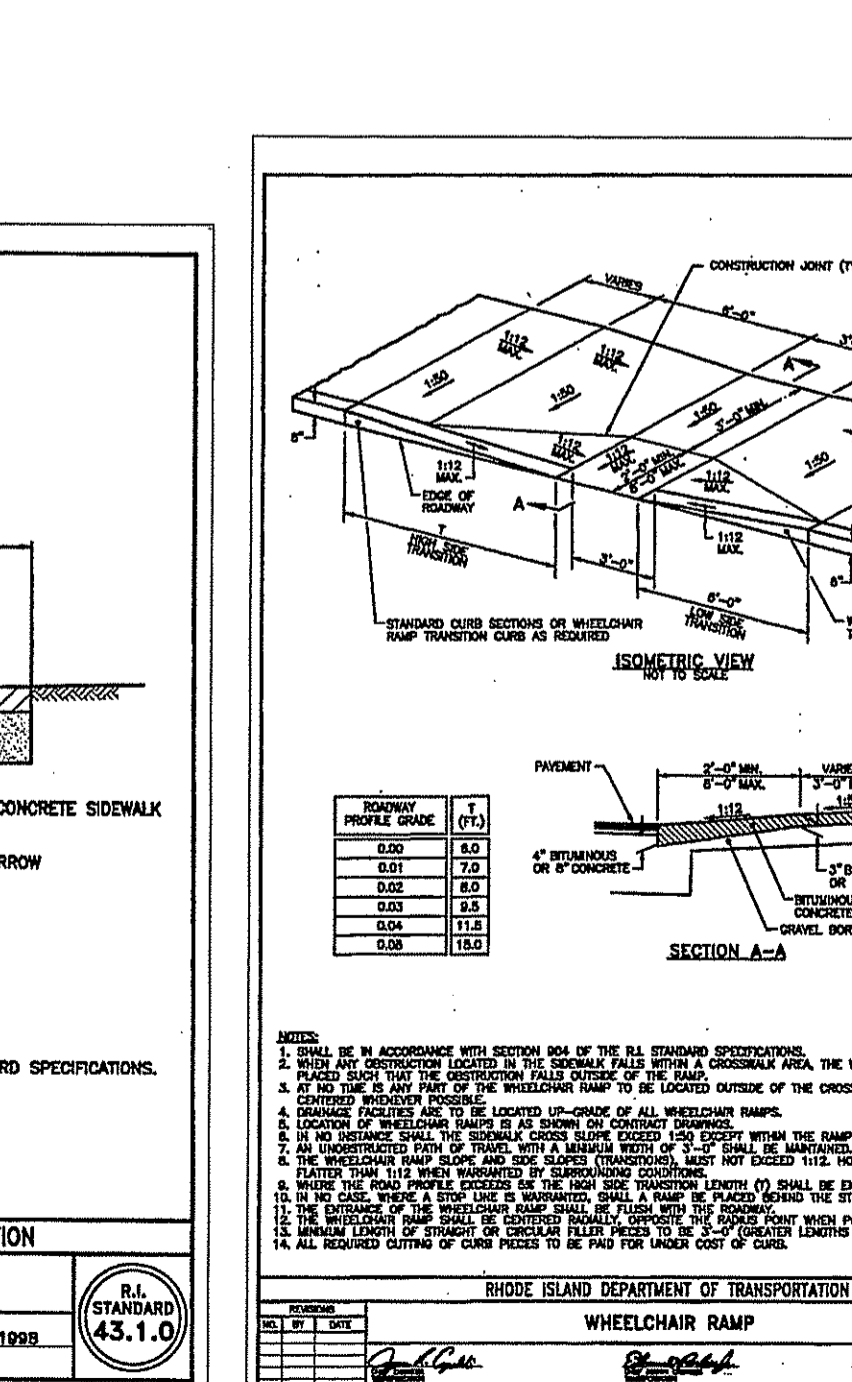
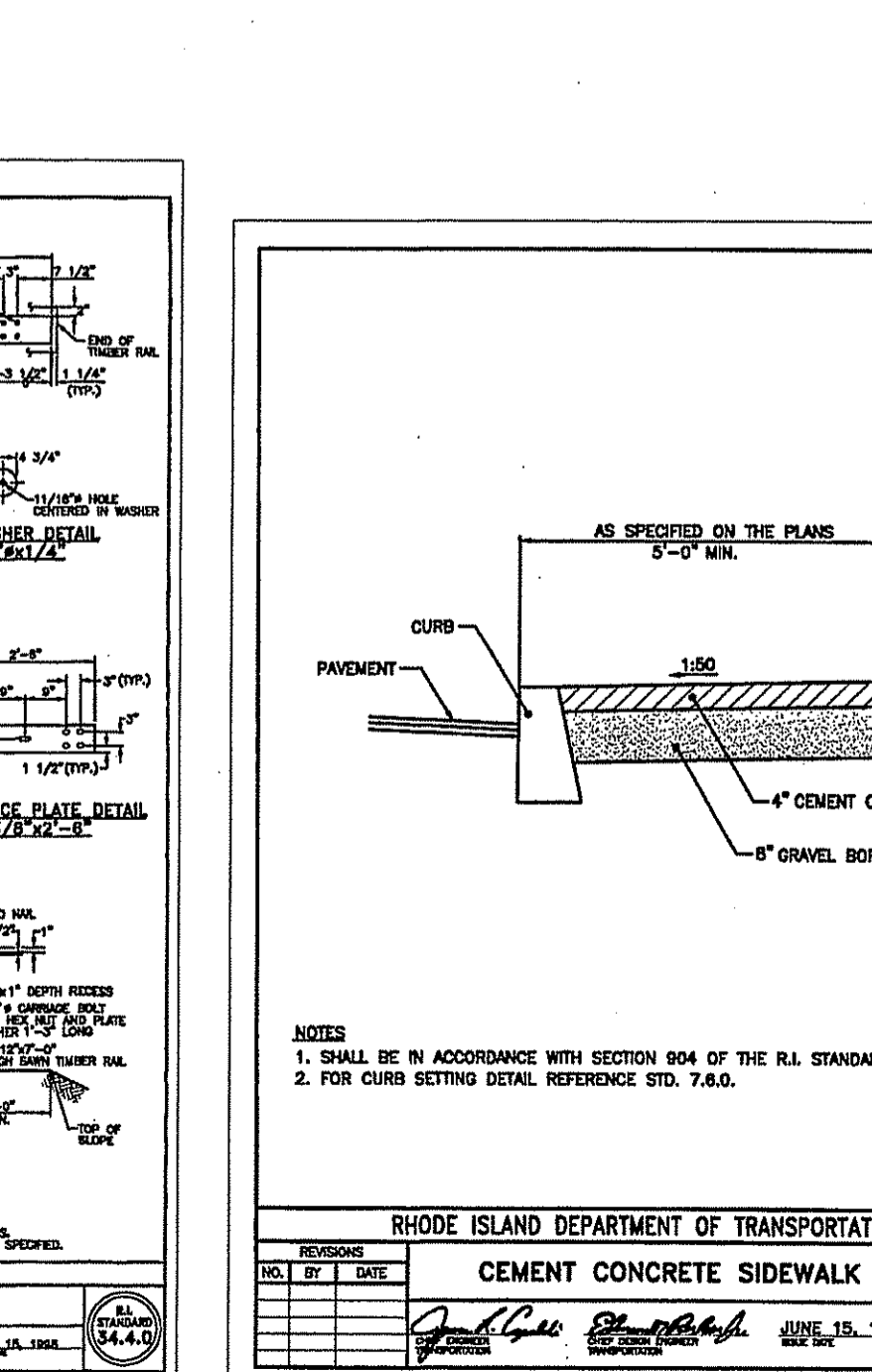
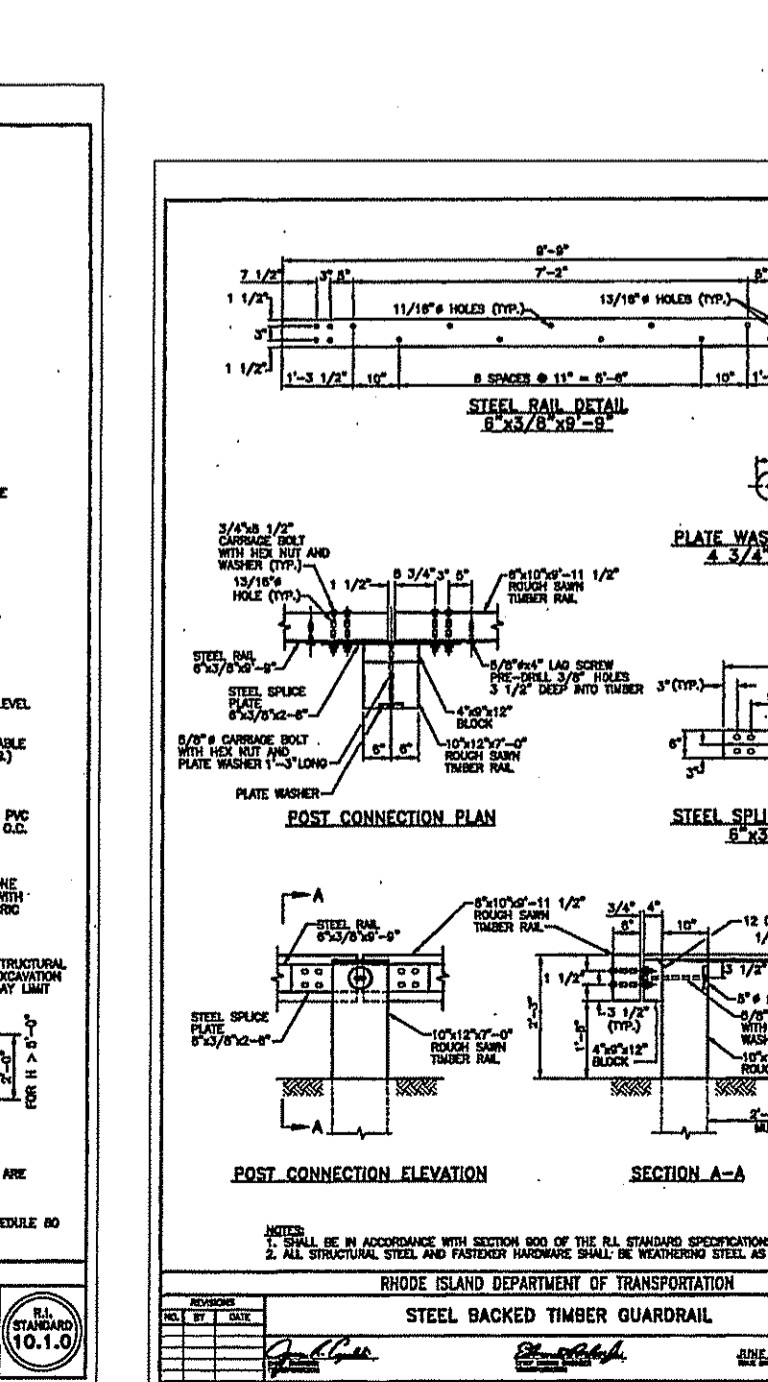
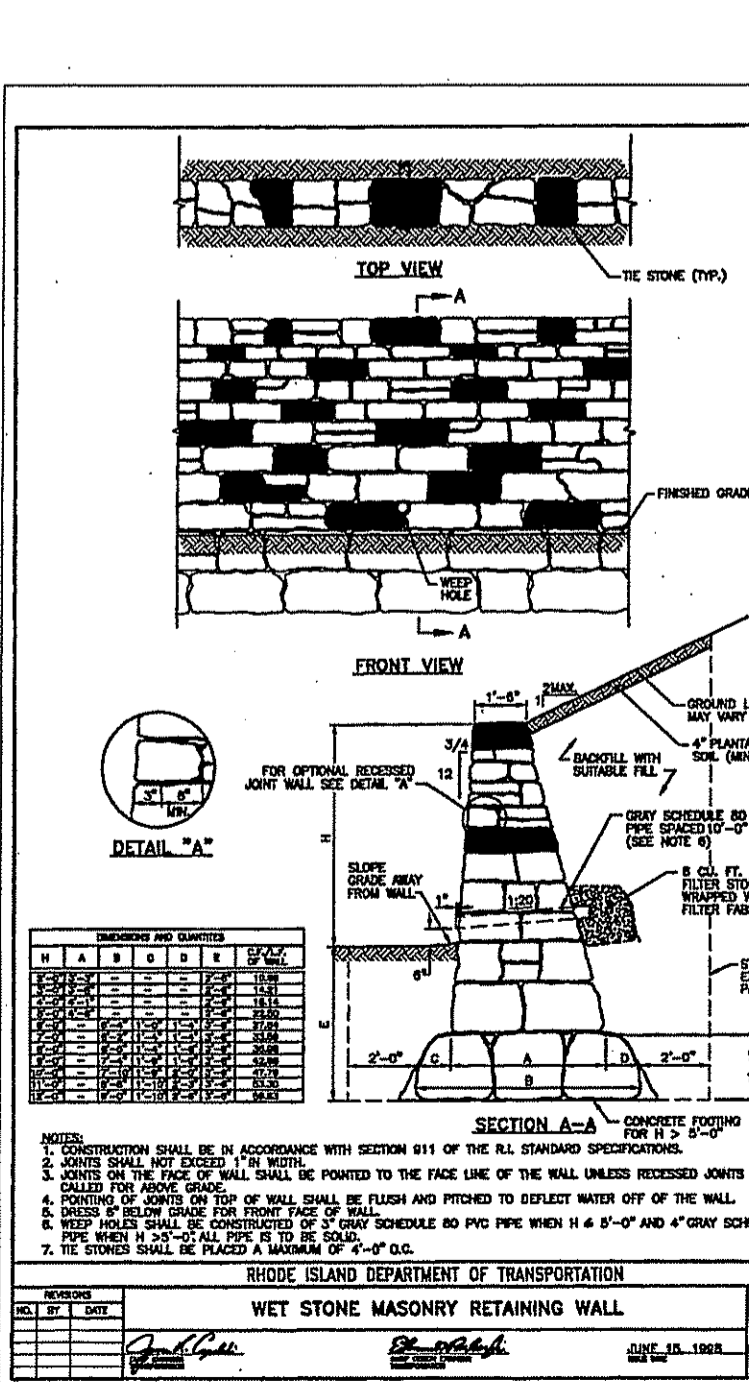
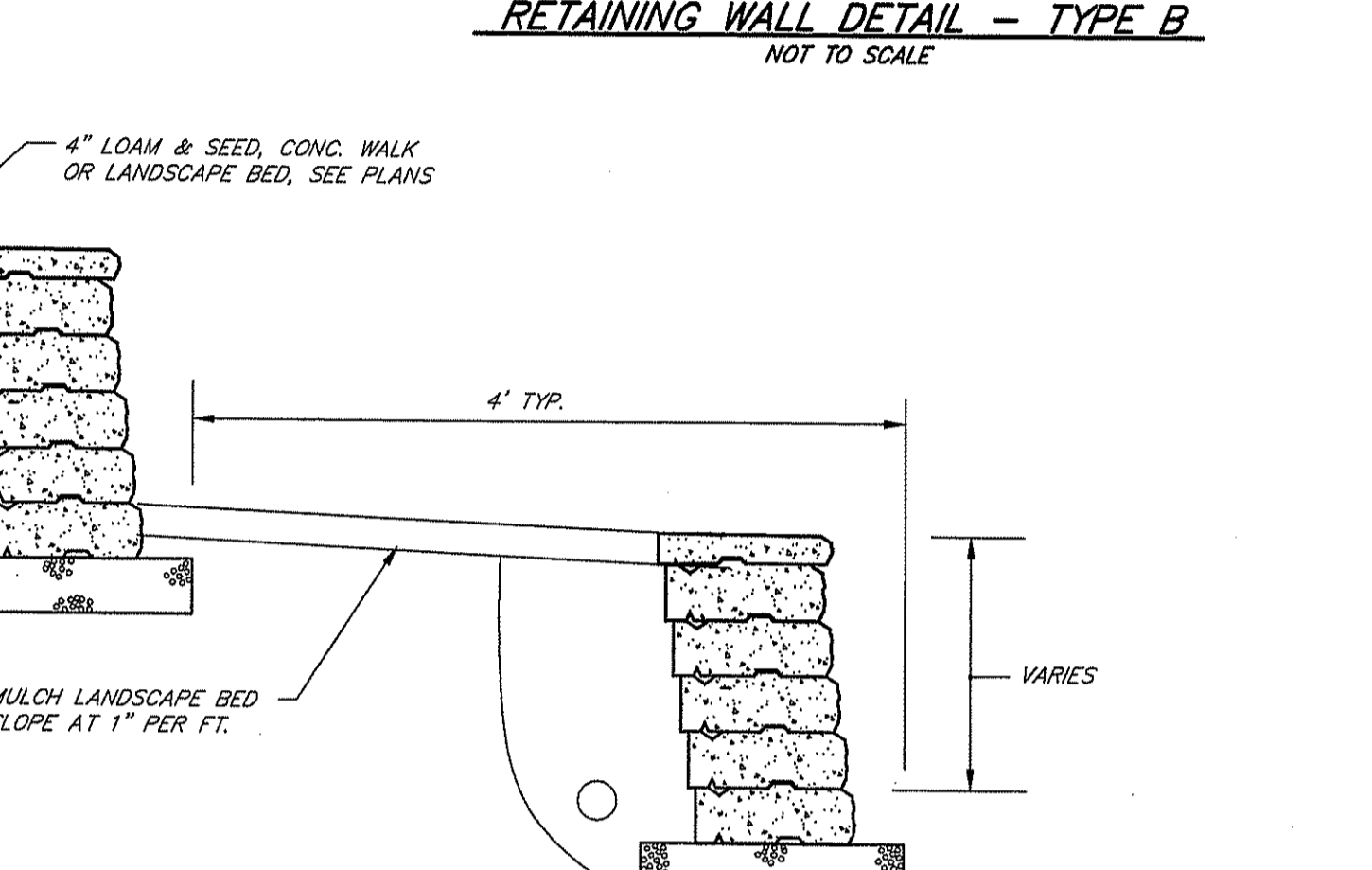
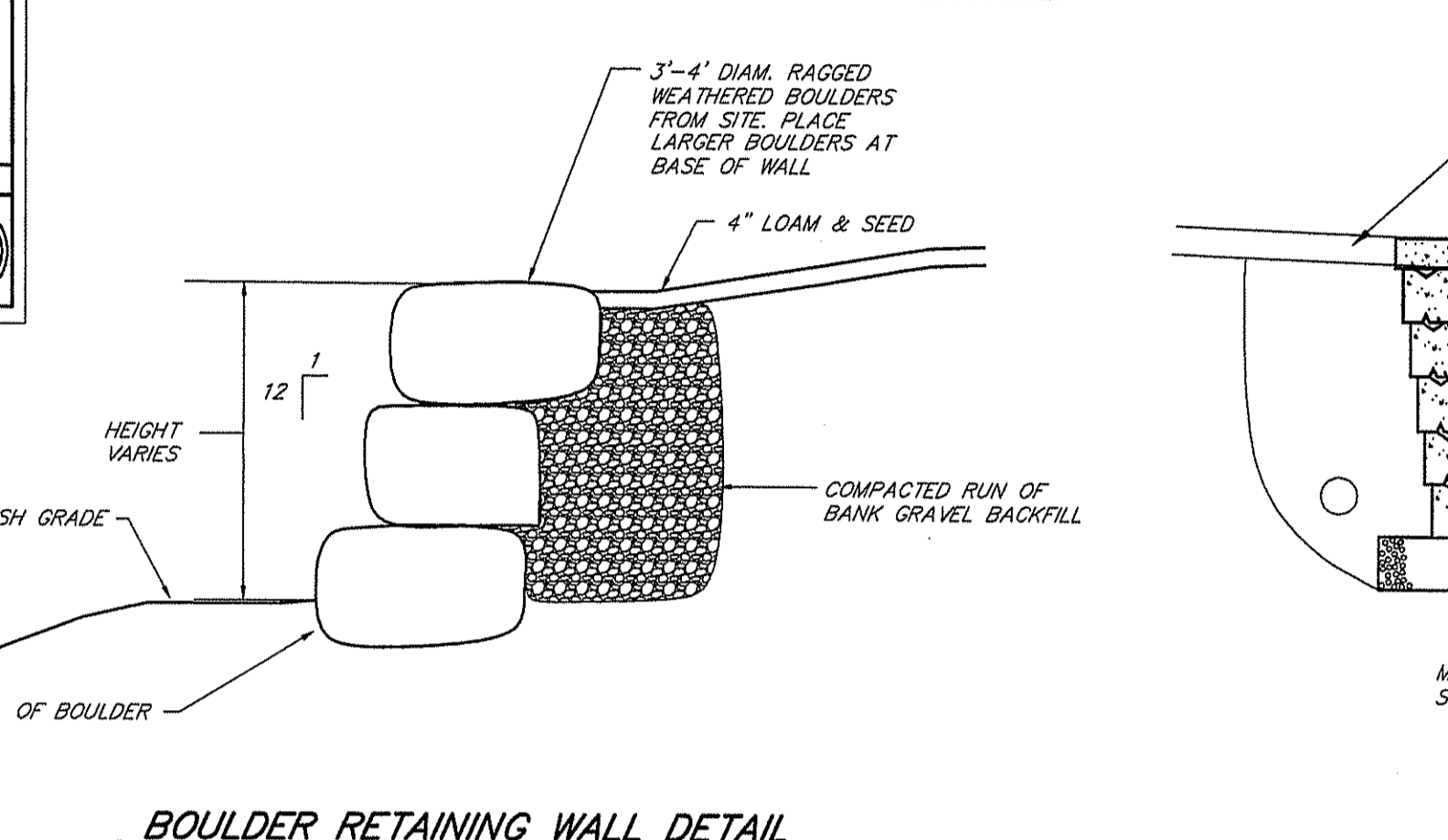
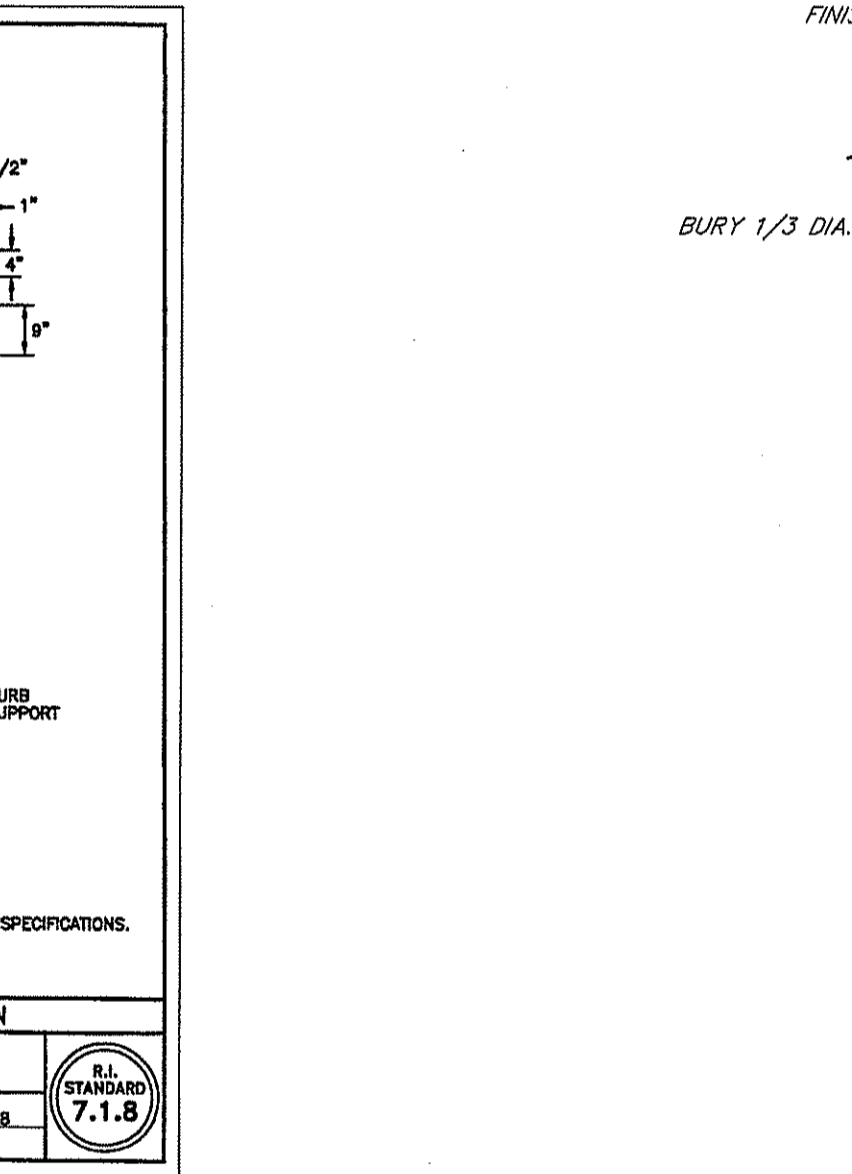
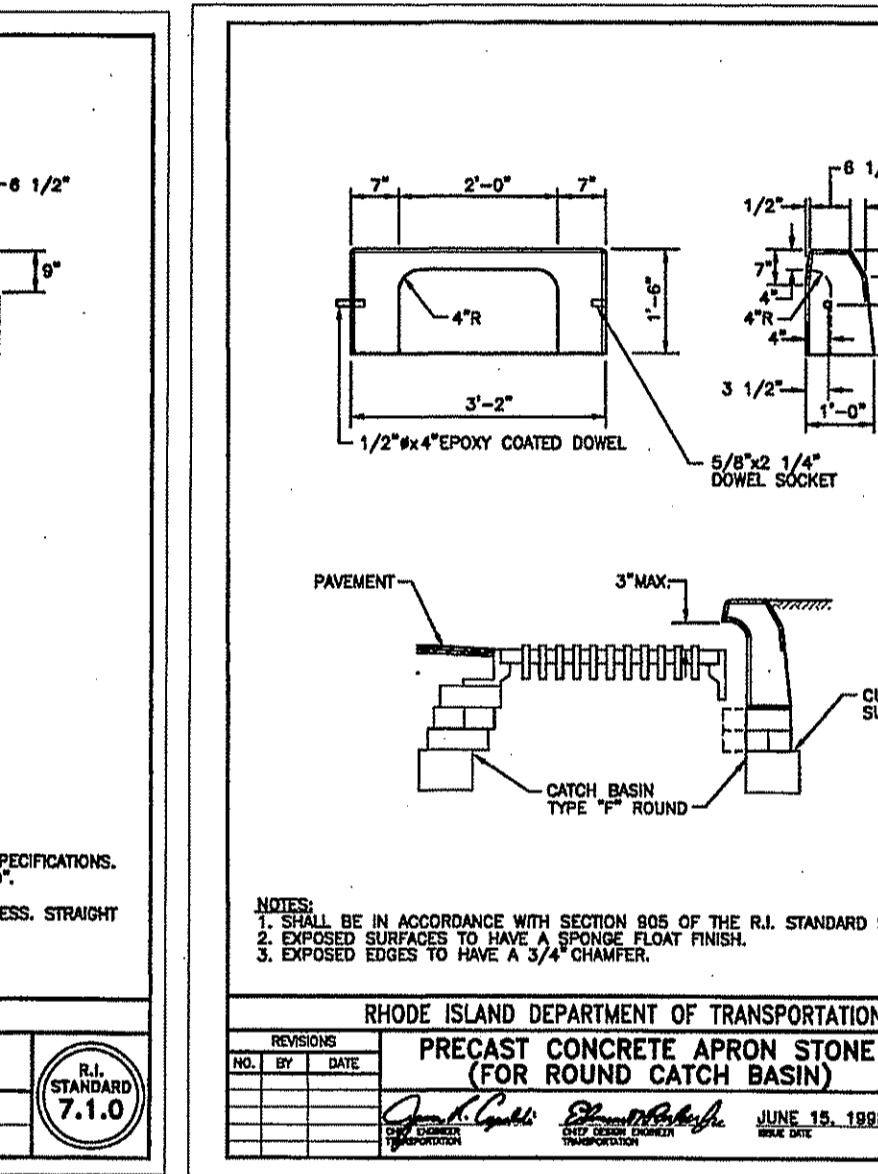
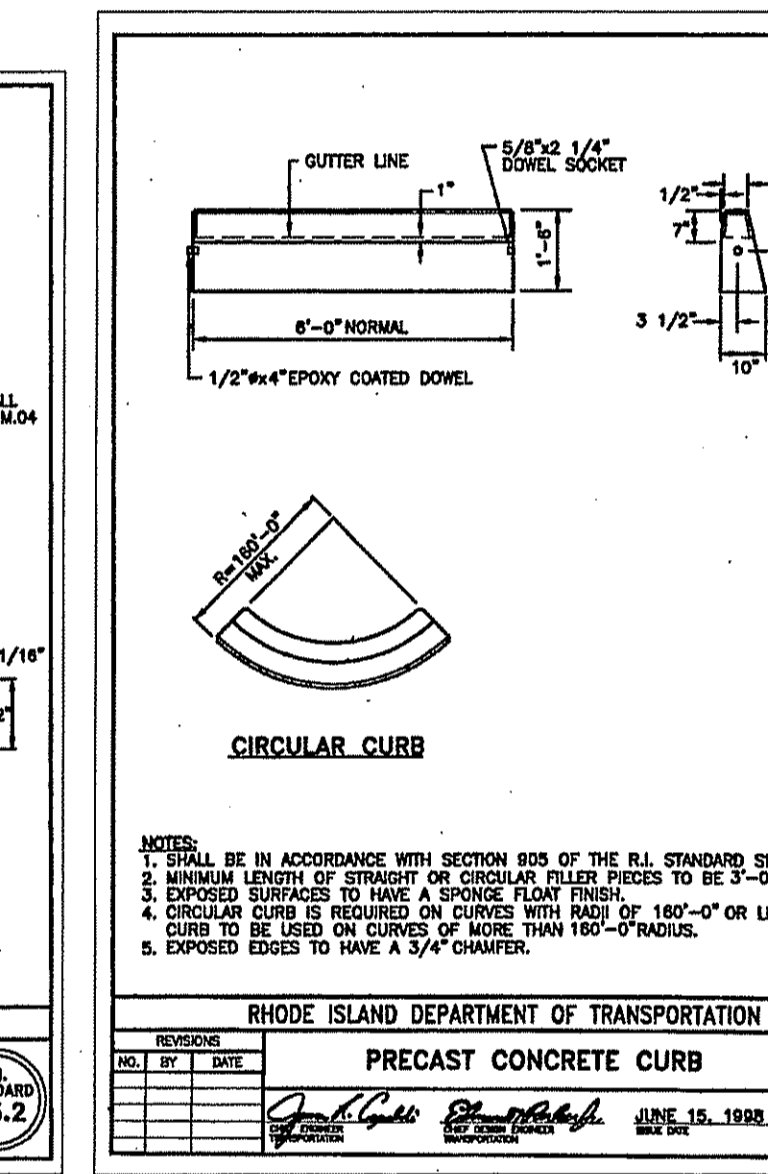
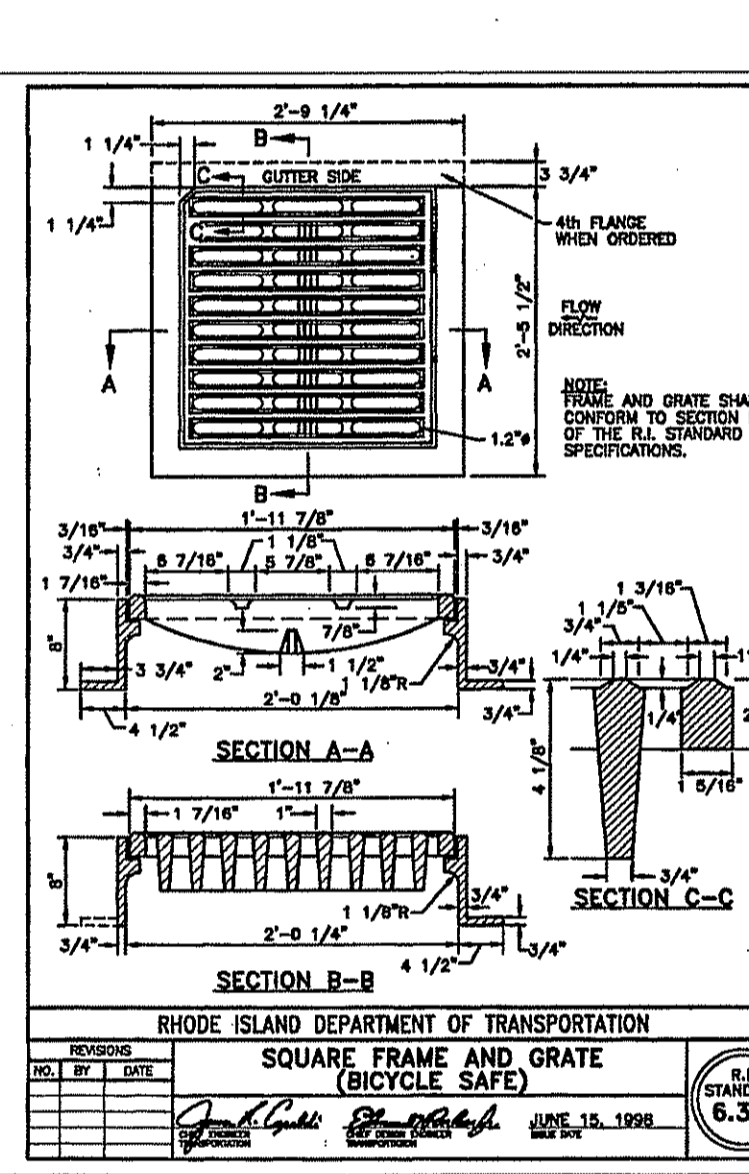
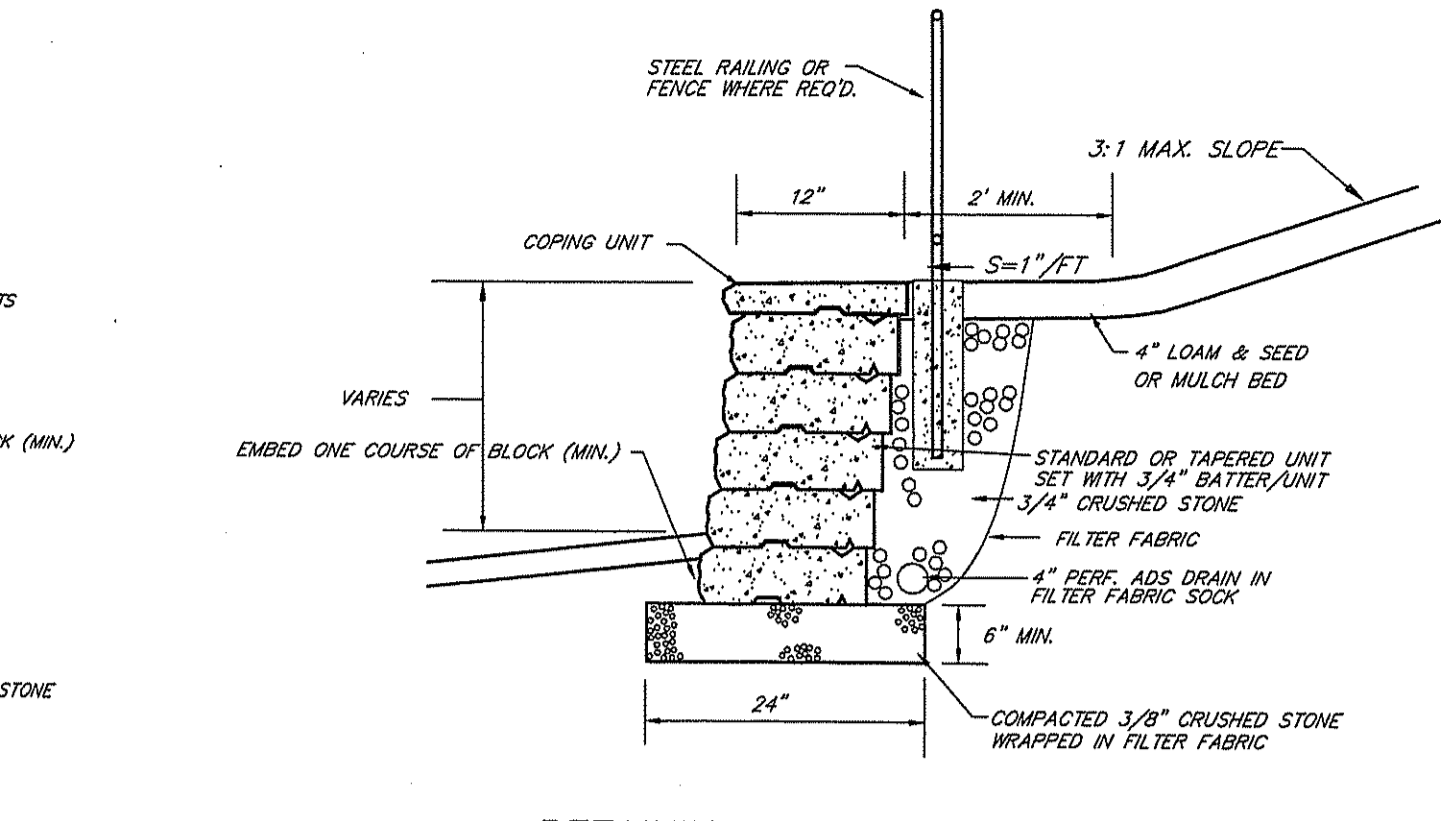
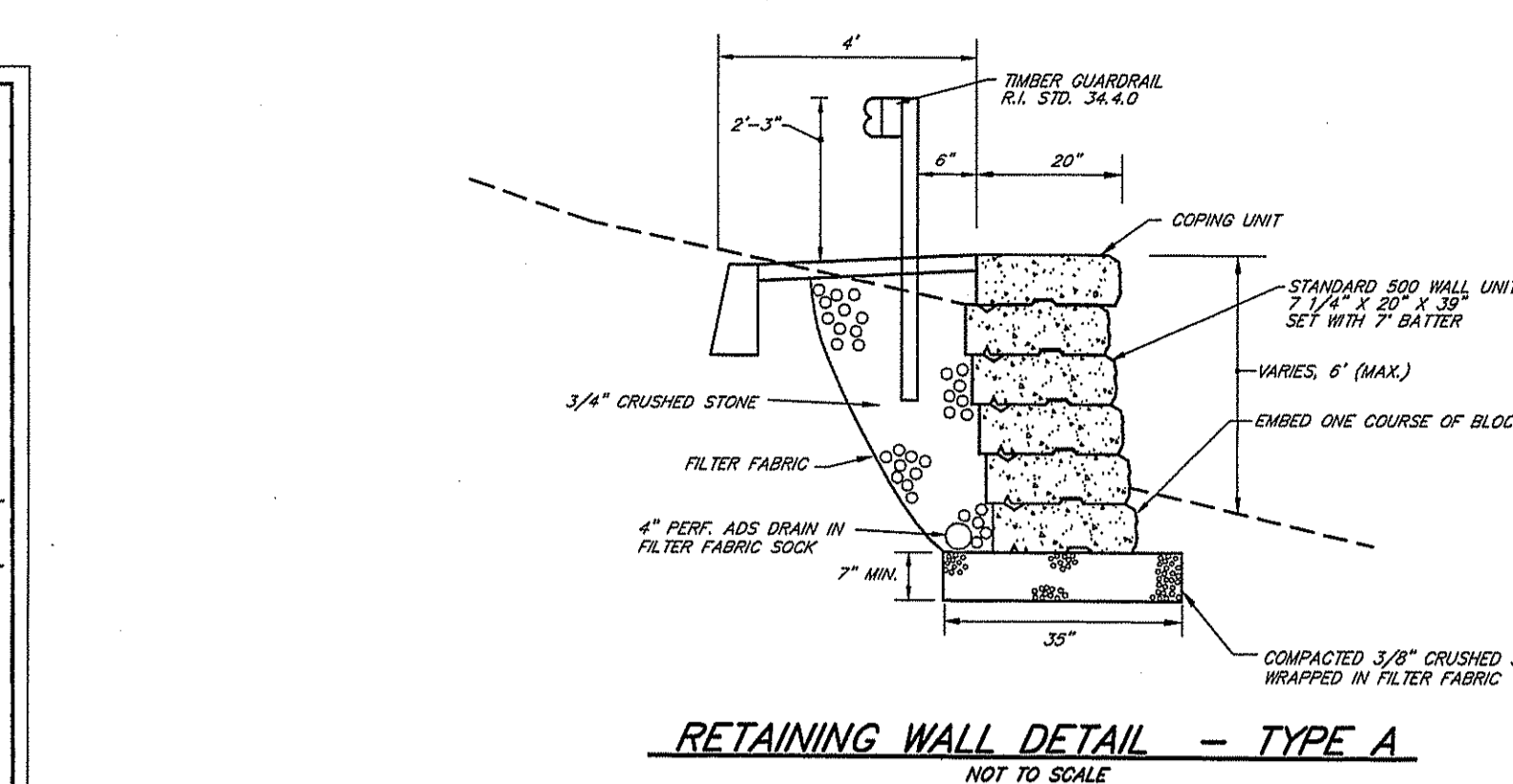
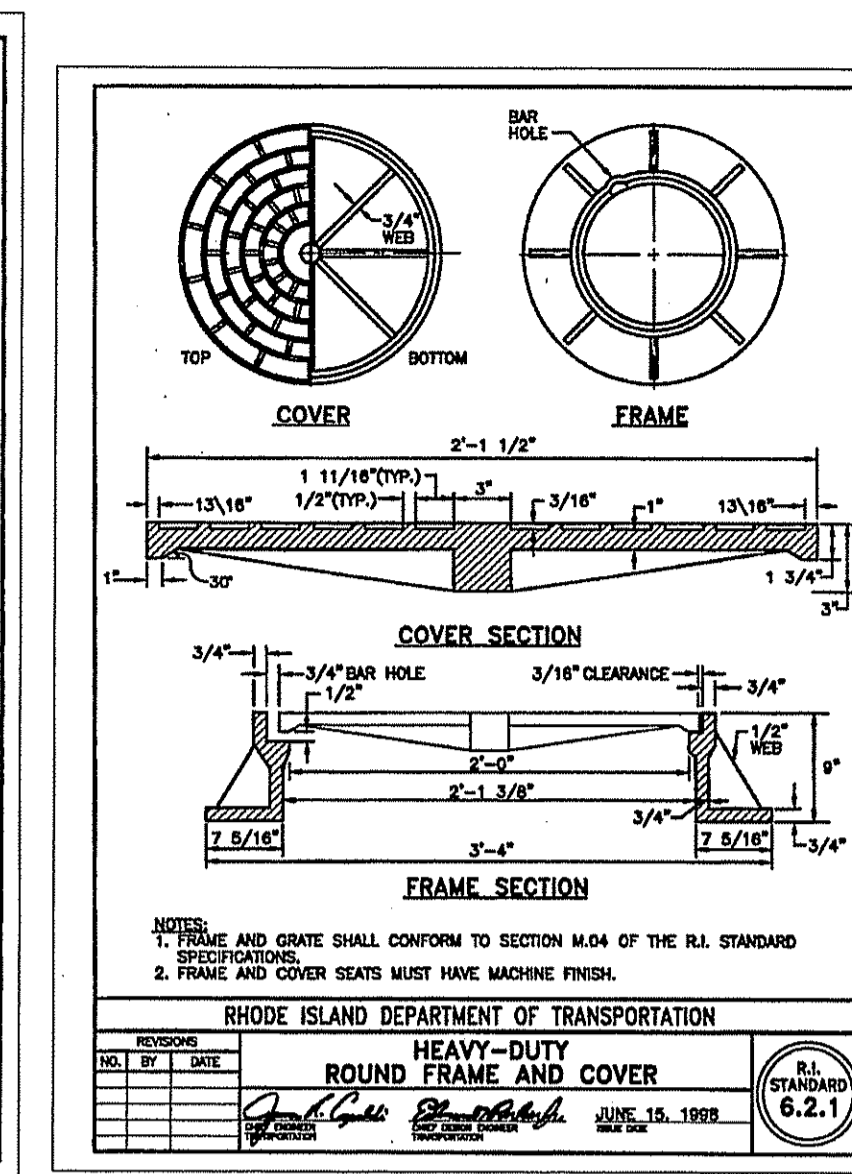
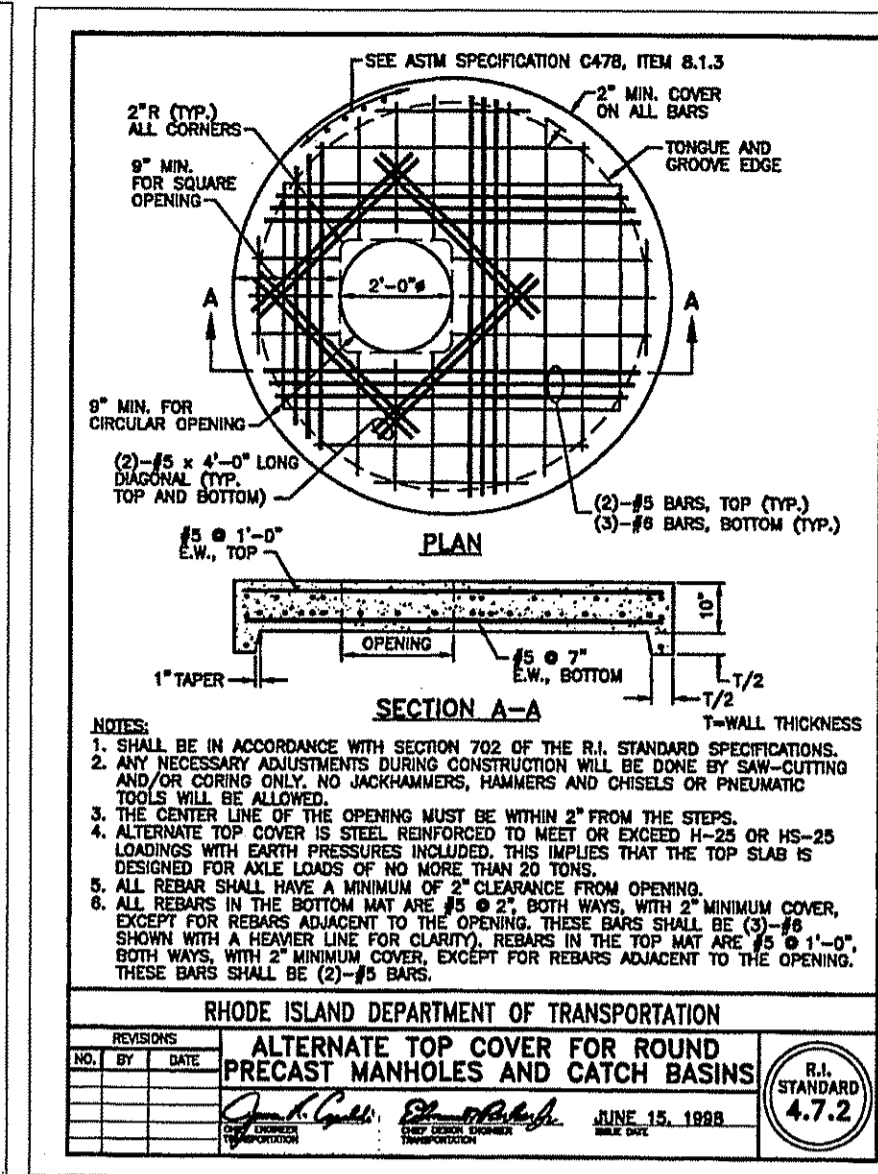
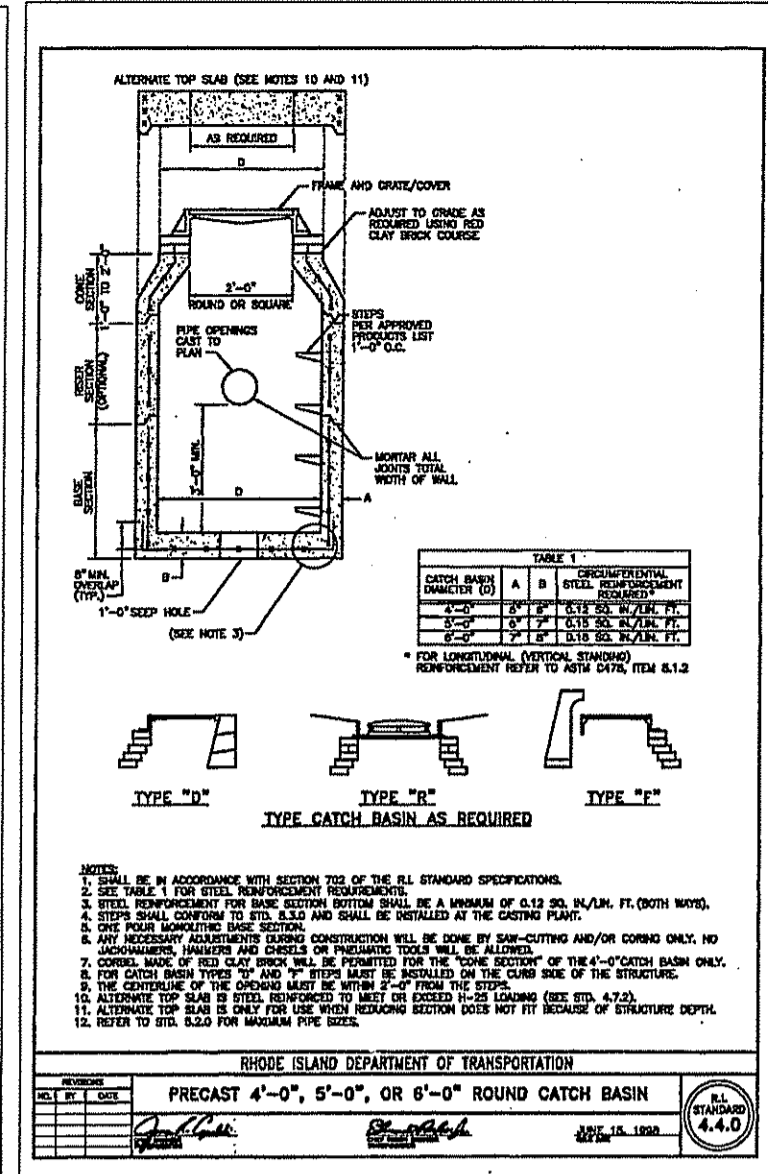
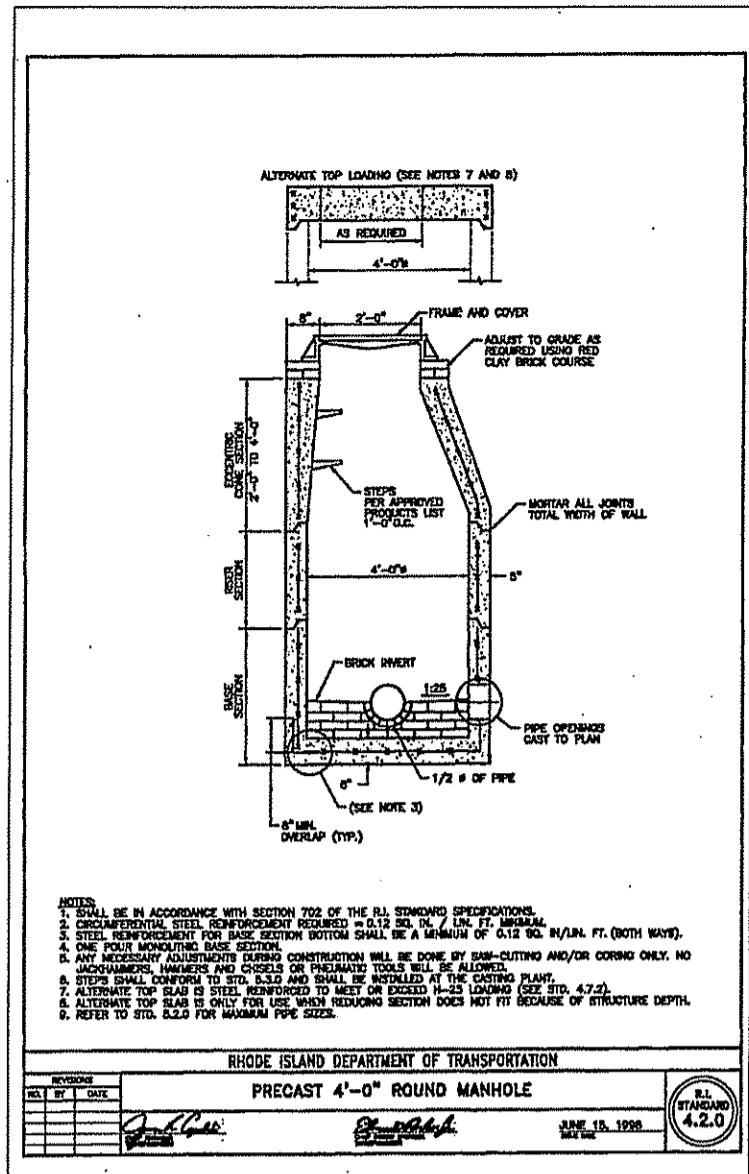
DATE	REVISION
4-3-10	DETAILS
11-10-10	FWW COMMENTS

MARSHFIELD COMMONS
ASSESSOR'S PLAT 1 LOTS 69 & 423
MECHANIC STREET
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR:
NEIGHBORWORKS BLACKSTONE RIVER VALLEY
719 FRONT STREET SUITE 103
WOONSOCKET, R.I. 02895

SFM

S.F.M. ENGINEERING ASSOCIATES
410 TIGUE AVENUE
COVENTRY, R.I. 02816
(401)826-3736

CONSTRUCTION NOTES & DETAILS - 1
DATE: MAR. 26, 2009 SCALE: AS NOTED SHEET 8 OF 11



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: Dec 30 2009 FILE # 10-0161
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Harte

DATE	REVISION
4-3-10	DETAILS
9-14-10	DETAILS
10-18-10	TRENCH DETAIL
11-10-10	FWW COMMENTS

DWN. BY: LBC DWG. NO. SFM53CD-2 C

MARSHFIELD COMMONS
ASSESSOR'S PLAT 1 LOTS 69 & 423
MECHANIC STREET
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR:
NEIGHBORWORKS BLACKSTONE RIVER VALLEY
719 FRONT STREET SUITE 103
WOONSOCKET, R.I. 02895

SFM
S.F.M. ENGINEERING ASSOCIATES
410 TIGUE AVENUE
COVENTRY, R.I. 02816
(401)826-3736

