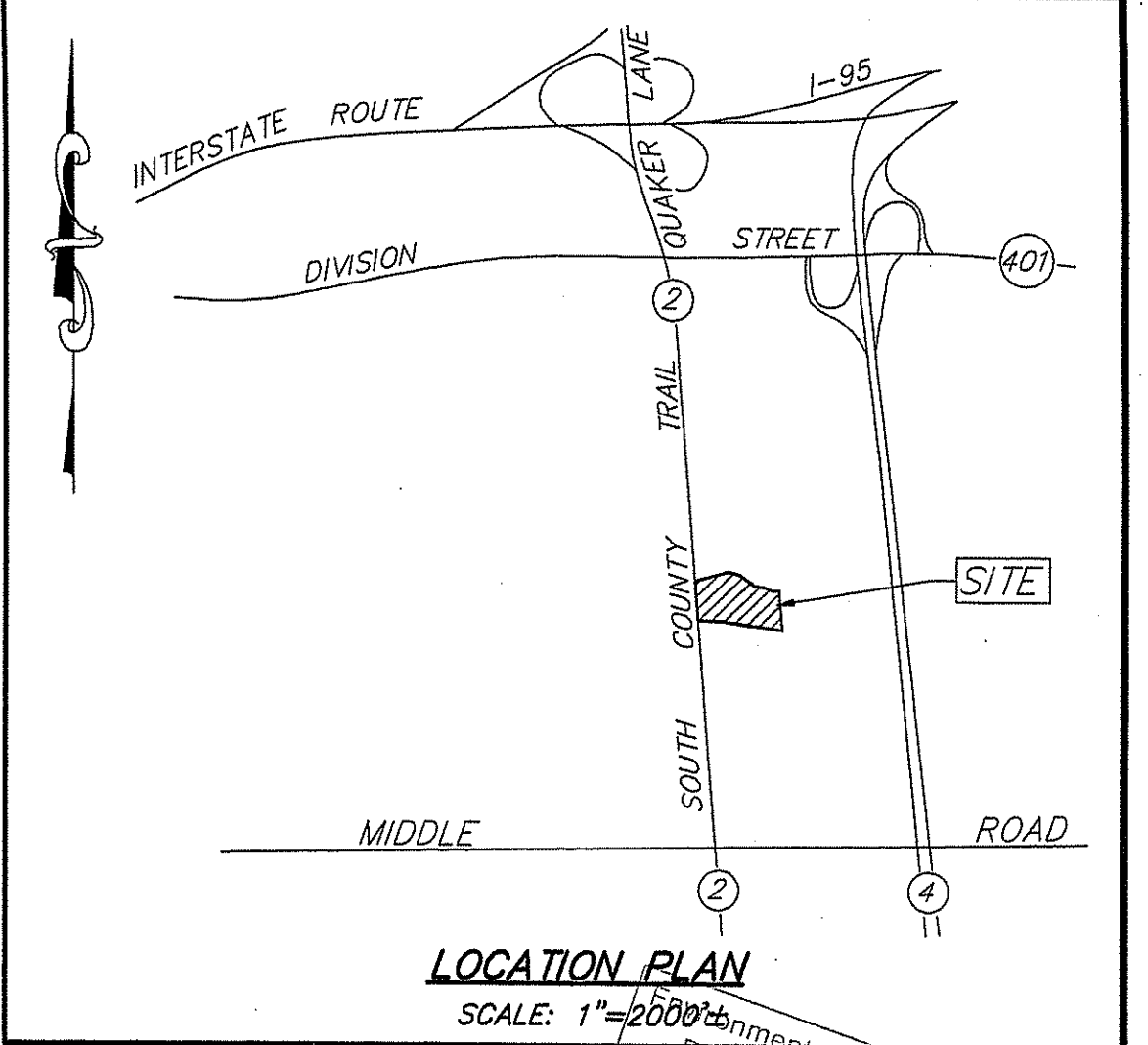


GENERAL NOTES:

- FRESHWATER WETLANDS DELINEATED BY NATURAL RESOURCE SERVICES, INC.
- PROPERTY LINE AND TOPOGRAPHIC INFORMATION BY ALPHA ASSOCIATES, LTD.
- EXISTING CONDITIONS SHOWN ON THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY PLAN BY ALPHA ASSOCIATES, LTD. DATED SEPTEMBER 23, 2009 REVISED: NOVEMBER 10, 2011. SITE CLEARING AND GRADING IN CONFORMANCE WITH THESE PLANS HAS TAKEN PLACE SINCE THAT DATE.
- SUBJECT SITE IS LOCATED WITHIN FLOOD HAZARD ZONE X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS PER F.I.R.M. MAP NO. 44003001386. THE 100 YEAR FLOOD PLAIN ASSOCIATED WITH THE PERENNIAL STREAM DOES NOT EXTEND INTO ANY AREAS OF PROPOSED SITE ALTERATIONS.
- PROPOSED DEVELOPMENT TO BE SERVICED BY UNDERGROUND UTILITIES INCLUDING WATER, SEWER, TELEPHONE, ELECTRIC, CABLE TV AND GAS LOCATED IN SOUTH COUNTY TRAIL.
- EROSION CONTROL MEASURES SHALL BE THE FIRST ITEM OF CONSTRUCTION AND SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- ALL WORK AND LIMITS OF DISTURBANCE SHALL CONFORM TO ALL LOCAL AND STATE PERMITS AND SPECIFICATIONS.
- ALL WORK SHALL BE ACCURATELY LOCATED AND CONSTRUCTION STAKED PRIOR TO COMMENCEMENT OF ANY WORK.
- WORK WITHIN THE STATE R.O.W. SHALL BE IN CONFORMANCE WITH THE R.I.D.O.T. P.A.P. AND R.I.D.O.T. STANDARD SPECIFICATIONS.
- SITE WORK SHALL BE IN CONFORMANCE WITH THE R.I.D.E.M. FRESHWATER WETLANDS PERMIT NO. 07-0237. THE PROPOSED LIMIT OF DISTURBANCE (L.O.D.) IS THE SAME AS THE PREVIOUSLY APPROVED L.O.D. EXCEPT NEAR FLAGS 19B-29B. THIS SECTION OF THE L.O.D. IS MOVED FURTHER AWAY FROM THE WETLAND EDGE.
- SITE WORK AND UTILITIES SHALL BE COORDINATED WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL AND LANDSCAPING PLANS AND UTILITY COMPANY REQUIREMENTS.



LOCATION PLAN
SCALE: 1"=2000'

SHEET INDEX

- OVERALL SITE PLAN
- EXISTING CONDITIONS PLAN
- SITE LAYOUT & UTILITY PLAN
- GRADING PLAN
- CONSTRUCTION DETAILS - 1
- CONSTRUCTION DETAILS - 2
- CONSTRUCTION DETAILS - 3
- EROSION CONTROL NOTES & DETAILS
- UTILITY DETAILS
- OVERALL LANDSCAPE PLAN
- ENLARGED PLANTING PLAN
- PLANTING DETAILS PLAN

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
FEB 16 2012 FILE # 07-0237
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

LEGEND

- 180--- EXIST. CONTOUR
- A34 FLAGGED WETLANDS EDGE
- EXIST. STONE WALL
- EXIST. TREE LINE
- EXIST. UTILITY POLE
- EXIST. SEWER MANHOLE
- CB CATCH BASIN
- W WATER LINE
- G GAS LINE
- S SEWER LINE
- D DRAINAGE LINE
- LOD PROPOSED LIMIT OF DISTURBANCE
- ALD APPROVED LIMIT OF DISTURBANCE
- RBW RIVERBANK WETLAND
- PW PERIMETER WETLAND
- PROP. RET. WALL

PARKING DATA

NET FLOOR AREA: WAREHOUSE = 6,700± S.F.
OFFICE & TRAINING = 44,000± S.F.

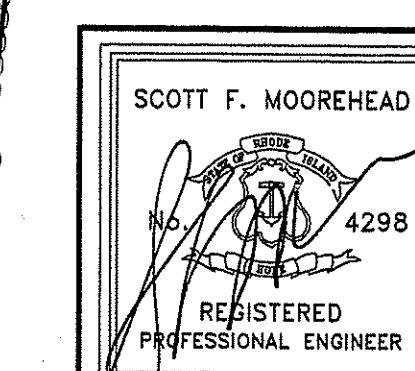
PARKING REQUIRED: 234 SPACES
ADA PARKING REQ'D: 7 SPACES
PARKING PROVIDED: 130 SPACES
ADA PARKING PROVIDED: 5 SPACES
GRASS OVERFLOW PARKING: 33 SPACES
PARKING SPACES: 9' X 18'
HANDICAP SPACES: 14' X 18'
AISLE WIDTH: 25' MIN.

DEVELOPMENT AREAS

BUILDINGS	0.716± Ac.	7.3%
PAVEMENT/WALKS	1.918± Ac.	19.5%
LANDSCAPED	2.065± Ac.	21.0%
WOODED	5.120± Ac.	52.2%
TOTAL	9.819± Ac.	100.0%

ZONING DATA

ZONE:	FARMING F1	INDUSTRIAL M/LIO
MIN. LOT AREA:	43,500 S.F.	DIMENSIONAL REGULATIONS
MIN. FRONTAGE:	150'	MIN. LOT AREA: 2 Ac.
	60' (CUL-DE-SAC)	MIN. FRONTAGE: 150'
YARDS: FRONT	60'	MIN. YARDS: FRONT 100'
SIDE	30'	REAR 50'
REAR	45'	MAX. BUILDING HEIGHT: 35'
MIN. BUILD. AREA:	16,710 S.F.	MAX. LOT COVERAGE: 30% (STRUCTURE) 66% (STRUCTURE & PAVMT.)

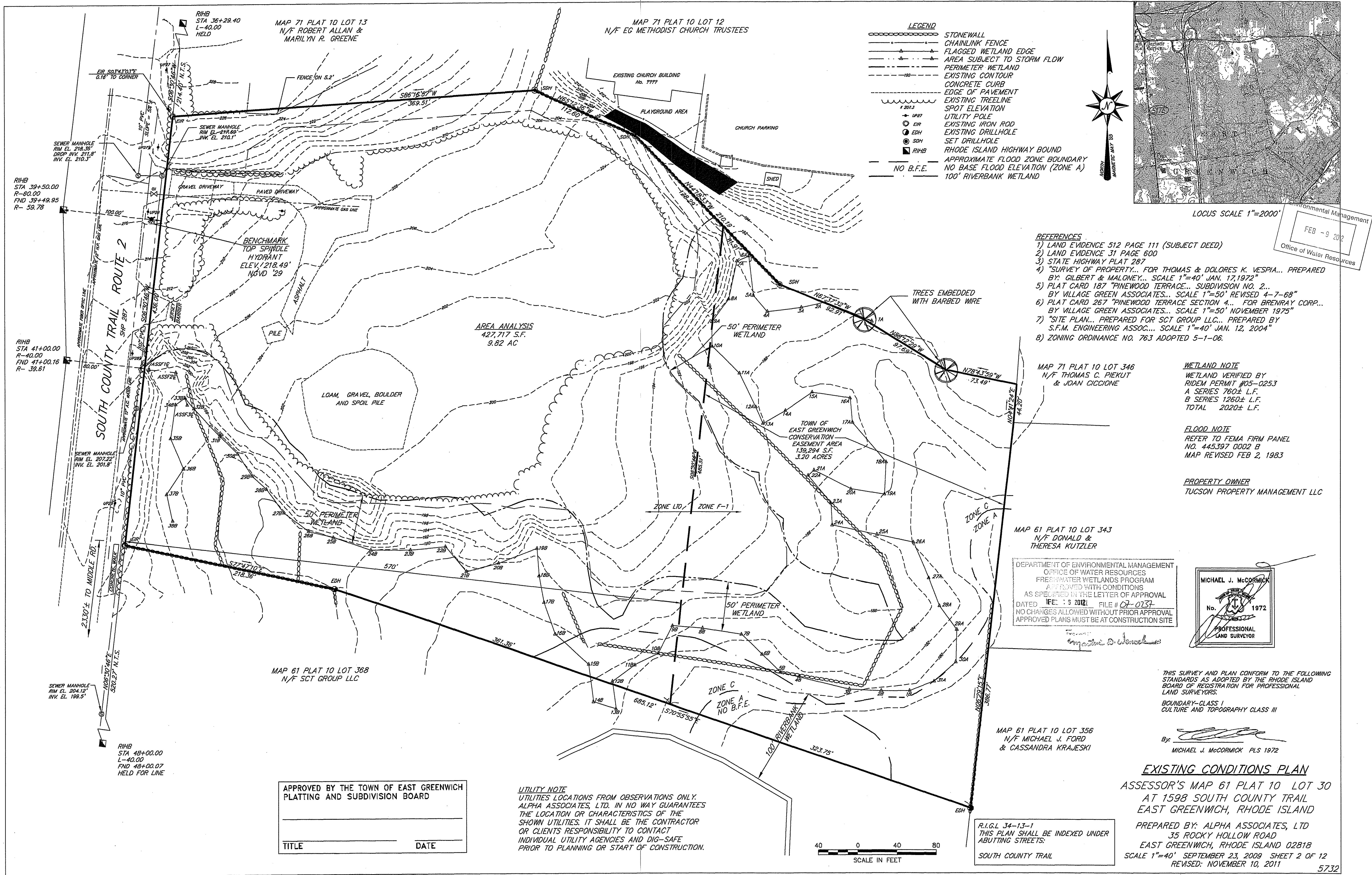


DATE	REVISION
1-17-12	FWW MOD. APPL.
2-6-12	STORAGE BUILDING & L.O.D.
DWN. BY: LBC DWG. NO. SFM760SP-A	
S.F.M. ENGINEERING ASSOCIATES 410 TIQUUE AVENUE COVENTRY, R.I. 02816 (401)826-3736 SCOTT@SFM.NECOXMAIL.COM	

POLQUIN PERFORMANCE HEADQUARTERS
A.P. 10 LOT 30
1598 SOUTH COUNTY TRAIL
EAST GREENWICH, R.I. 02818
OWNER & APPLICANT
TUCSON PROPERTY MANAGEMENT LLC
42 LADD STREET
EAST GREENWICH, R.I. 02818

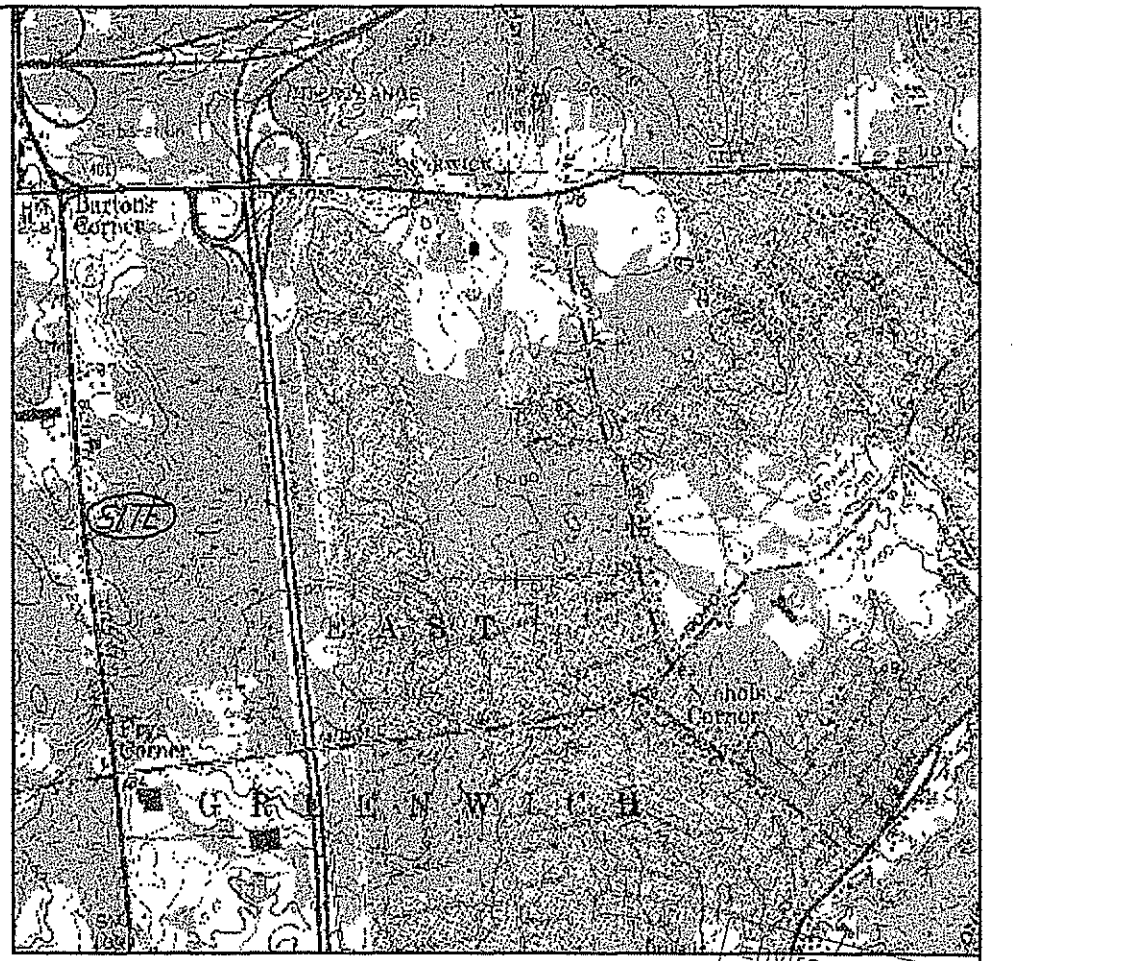
OVERALL SITE PLAN

DATE: JAN. 9, 2012 SCALE: 1"= 40' SHEET 1 OF 12



- LEGEND**
- STONEMALL
 - - - CHAINLINK FENCE
 - - - FLAGGED WETLAND EDGE
 - - - AREA SUBJECT TO STORM FLOW
 - - - PERIMETER WETLAND
 - - - EXISTING CONTOUR
 - - - CONCRETE CURB
 - - - EDGE OF PAVEMENT
 - - - EXISTING TREELINE
 - - - SPOT ELEVATION
 - UPST
 - EIR
 - EDH
 - SDH
 - RIHS
 - - - RHODE ISLAND HIGHWAY BOUND
 - - - APPROXIMATE FLOOD ZONE BOUNDARY
 - - - NO B.F.E.
 - - - NO BASE FLOOD ELEVATION (ZONE A)
 - - - 100' RIVERBANK WETLAND

- REFERENCES**
- 1) LAND EVIDENCE 512 PAGE 111 (SUBJECT DEED)
 - 2) LAND EVIDENCE 31 PAGE 600
 - 3) STATE HIGHWAY PLAT 287
 - 4) "SURVEY OF PROPERTY... FOR THOMAS & DOLORES K. VESPIA... PREPARED BY: GILBERT & MALONEY... SCALE 1"=40' JAN. 17, 1972"
 - 5) PLAT CARD 187 "PINWOOD TERRACE... SUBDIVISION NO. 2... BY VILLAGE GREEN ASSOCIATES... SCALE 1"=50' REVISED 4-7-68"
 - 6) PLAT CARD 267 "PINWOOD TERRACE SECTION 4... FOR BRENNAY CORP... BY VILLAGE GREEN ASSOCIATES... SCALE 1"=50' NOVEMBER 1975"
 - 7) "SITE PLAN... PREPARED FOR SCT GROUP LLC... PREPARED BY S.F.M. ENGINEERING ASSOC... SCALE 1"=40' JAN. 12, 2004"
 - 8) ZONING ORDINANCE NO. 763 ADOPTED 5-1-06.



LOCUS SCALE 1"=2000'

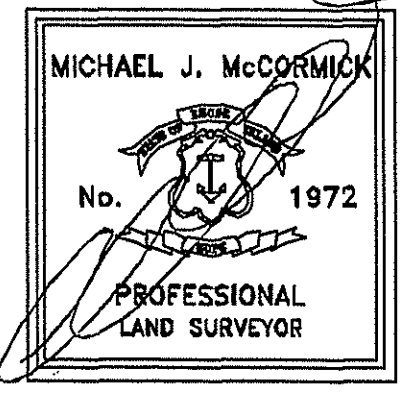
Environmental Management
FEB -9 2012
Office of Water Resources

WETLAND NOTE
WETLAND VERIFIED BY RIDEM PERMIT #05-0253
A SERIES 760± L.F.
B SERIES 1260± L.F.
TOTAL 2020± L.F.

FLOOD NOTE
REFER TO FEMA FIRM PANEL NO. 445397 0002 B
MAP REVISED FEB 2, 1983

PROPERTY OWNER
TUCSON PROPERTY MANAGEMENT LLC

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 10/15/2011 FILE # 07-0137
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS:
BOUNDARY-CLASS I
CULTURE AND TOPOGRAPHY CLASS III

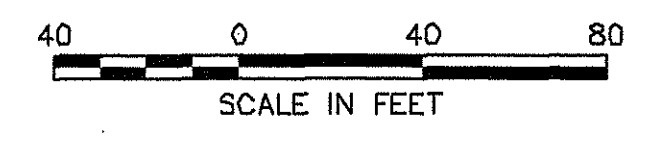
By: *Michael J. McCormick*
MICHAEL J. McCORMICK PLS 1972

EXISTING CONDITIONS PLAN
ASSESSOR'S MAP 61 PLAT 10 LOT 30
AT 1598 SOUTH COUNTY TRAIL
EAST GREENWICH, RHODE ISLAND
PREPARED BY: ALPHA ASSOCIATES, LTD
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RHODE ISLAND 02818
SCALE 1"=40' SEPTEMBER 23, 2009 SHEET 2 OF 12
REVISED: NOVEMBER 10, 2011

APPROVED BY THE TOWN OF EAST GREENWICH
PLATTING AND SUBDIVISION BOARD

TITLE _____ DATE _____

UTILITY NOTE
UTILITIES LOCATIONS FROM OBSERVATIONS ONLY.
ALPHA ASSOCIATES, LTD. IN NO WAY GUARANTEES THE LOCATION OR CHARACTERISTICS OF THE SHOWN UTILITIES. IT SHALL BE THE CONTRACTOR OR CLIENTS RESPONSIBILITY TO CONTACT INDIVIDUAL UTILITY AGENCIES AND DIG-SAFE PRIOR TO PLANNING OR START OF CONSTRUCTION.



R.I.G.L 34-13-1
THIS PLAN SHALL BE INDEXED UNDER
ABUTTING STREETS:
SOUTH COUNTY TRAIL

MAP 71 AP 10 LOT 13
N/F ROBERT ALLEN &
MARILYN R. GREENE

MAP 71 AP 10 LOT 12
N/F EAST GREENWICH METHODIST
CHURCH TRUSTEES

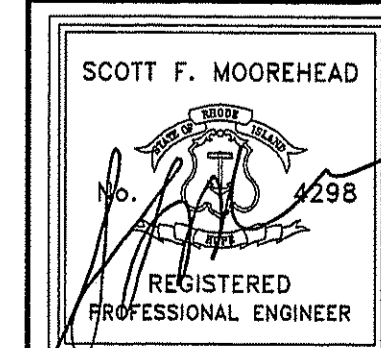
LEGEND

- A34 — FLAGGED WETLANDS EDGE
- ○ — EXIST. STONE WALL
- ○ — EXIST. UTILITY POLE
- ⊙ — EXIST. SEWER MANHOLE
- □ — CB
- W — WATER LINE
- G — GAS LINE
- S — SEWER LINE
- D — DRAIN LINE
- L — PROPOSED LIMIT OF DISTURBANCE
- A — APPROVED LIMIT OF DISTURBANCE
- — — PROP. RET. WALL
- — — PROP. GUARDRAIL
- ○ — PROP. BOULDER WALL
- ⊙ — EXIST. MONITORING WELL
- ⊙ — LUMINAIRE ON 16' POLE

LIGHTING NOTES

1. ALL LUMINAIRES SHALL BE CUT-OFF TYPE CERTIFIED AS DARK SKY COMPLIANT.
2. LIGHTING DESIGN SHALL PROVIDE CUT-OFFS TO PREVENT ILLUMINATION INTO WETLAND AND PERIMETER WETLAND AREAS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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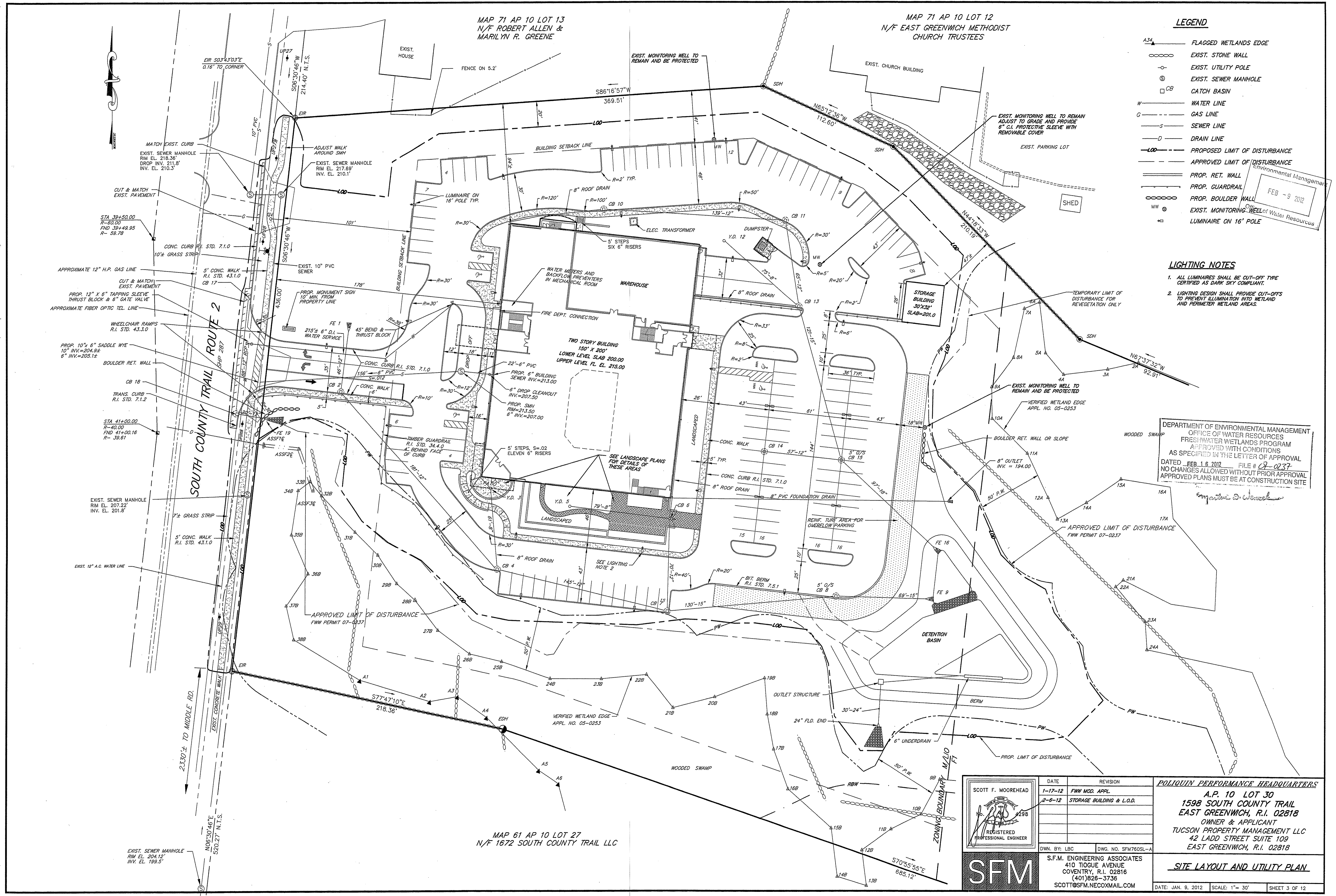
DATE	REVISION
1-17-12	FWM MOD. APPL.
2-6-12	STORAGE BUILDING & L.O.D.



S.F.M. ENGINEERING ASSOCIATES
410 TOGUE AVENUE
COVENTRY, R.I. 02816
(401)826-3736
SCOTT@SFM.NECOXMAIL.COM

POLIQUIN PERFORMANCE HEADQUARTERS
A.P. 10 LOT 30
1598 SOUTH COUNTY TRAIL
EAST GREENWICH, R.I. 02818
OWNER & APPLICANT
TUCSON PROPERTY MANAGEMENT LLC
42 LADD STREET SUITE 109
EAST GREENWICH, R.I. 02818

SITE LAYOUT AND UTILITY PLAN
DATE: JAN. 9, 2012 SCALE: 1" = 30' SHEET 3 OF 12



MAP 61 AP 10 LOT 27
N/F 1672 SOUTH COUNTY TRAIL LLC

MAP 71 AP 10 LOT 13
N/F ROBERT ALLEN &
MARILYN R. GREENE

MAP 71 AP 10 LOT 12
N/F EAST GREENWICH METHODIST
CHURCH TRUSTEES

DRAINAGE INFORMATION

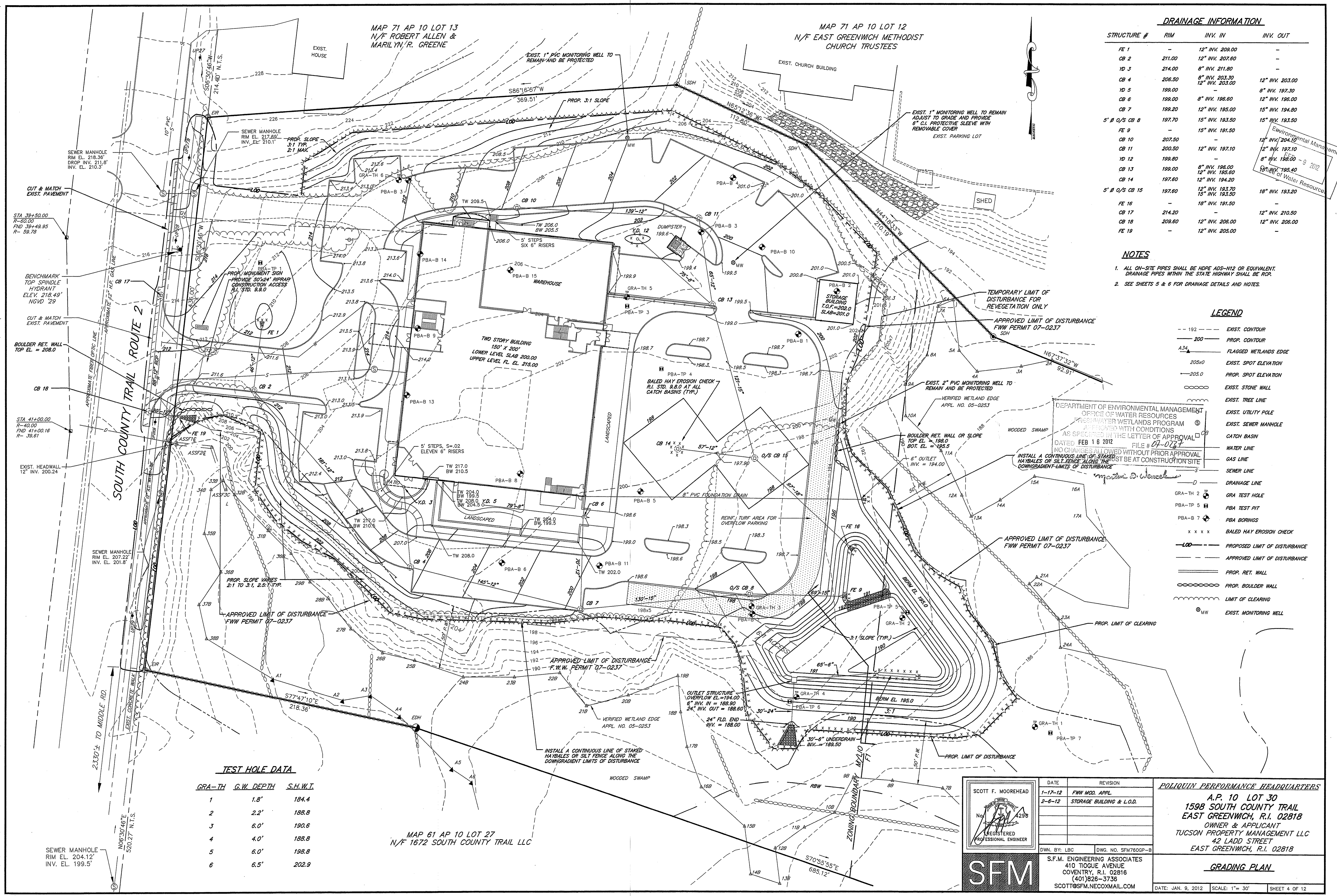
STRUCTURE #	RIM	INV. IN	INV. OUT
FE 1	-	12" INV. 209.00	-
CB 2	211.00	12" INV. 207.60	-
YD 3	214.00	8" INV. 211.80	-
CB 4	208.50	8" INV. 203.30	12" INV. 203.00
YD 5	199.00	-	8" INV. 197.30
CB 6	199.00	8" INV. 196.60	12" INV. 196.00
CB 7	199.20	12" INV. 195.00	15" INV. 194.80
5' Ø O/S CB 8	197.70	15" INV. 193.50	15" INV. 193.50
FE 9	-	15" INV. 191.50	-
CB 10	207.50	-	12" INV. 204.10
CB 11	200.50	12" INV. 197.10	12" INV. 197.10
YD 12	199.80	-	8" INV. 198.00
CB 13	199.00	8" INV. 196.00	12" INV. 195.60
CB 14	197.60	12" INV. 194.20	12" INV. 194.20
5' Ø O/S CB 15	197.60	12" INV. 193.70	18" INV. 193.20
FE 16	-	18" INV. 191.50	-
CB 17	214.20	-	12" INV. 210.50
CB 18	208.60	12" INV. 206.00	12" INV. 206.00
FE 19	-	12" INV. 205.00	-

NOTES

- ALL ON-SITE PIPES SHALL BE HDPE ADS-N12 OR EQUIVALENT. DRAINAGE PIPES WITHIN THE STATE HIGHWAY SHALL BE RCP.
- SEE SHEETS 5 & 6 FOR DRAINAGE DETAILS AND NOTES.

LEGEND

- 192 --- EXIST. CONTOUR
- 200 --- PROP. CONTOUR
- A3A FLAGGED WETLANDS EDGE
- 205x0 EXIST. SPOT ELEVATION
- 205.0 PROP. SPOT ELEVATION
- ○ ○ ○ ○ EXIST. STONE WALL
- ○ ○ ○ ○ EXIST. TREE LINE
- ○ ○ ○ ○ EXIST. UTILITY POLE
- ○ ○ ○ ○ EXIST. SEWER MANHOLE
- ○ ○ ○ ○ CATCH BASIN
- ○ ○ ○ ○ WATER LINE
- ○ ○ ○ ○ GAS LINE
- ○ ○ ○ ○ SEWER LINE
- ○ ○ ○ ○ DRAINAGE LINE
- GRA-TH 2 ○ ○ ○ ○ ○ GRA TEST HOLE
- PBA-TP 5 ○ ○ ○ ○ ○ PBA TEST PIT
- PBA-B 7 ○ ○ ○ ○ ○ PBA BORINGS
- x x x x x BALED HAY EROSION CHECK
- - - - - PROPOSED LIMIT OF DISTURBANCE
- - - - - APPROVED LIMIT OF DISTURBANCE
- --- PROP. RET. WALL
- ○ ○ ○ ○ PROP. BOULDER WALL
- ○ ○ ○ ○ LIMIT OF CLEARING
- ○ ○ ○ ○ EXIST. MONITORING WELL



TEST HOLE DATA

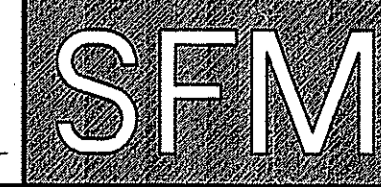
GRA-TH	G.W. DEPTH	S.H.W.T.
1	1.8'	184.4
2	2.2'	188.8
3	6.0'	190.6
4	4.0'	188.8
5	6.0'	198.8
6	6.5'	202.9

MAP 61 AP 10 LOT 27
N/F 1672 SOUTH COUNTY TRAIL LLC

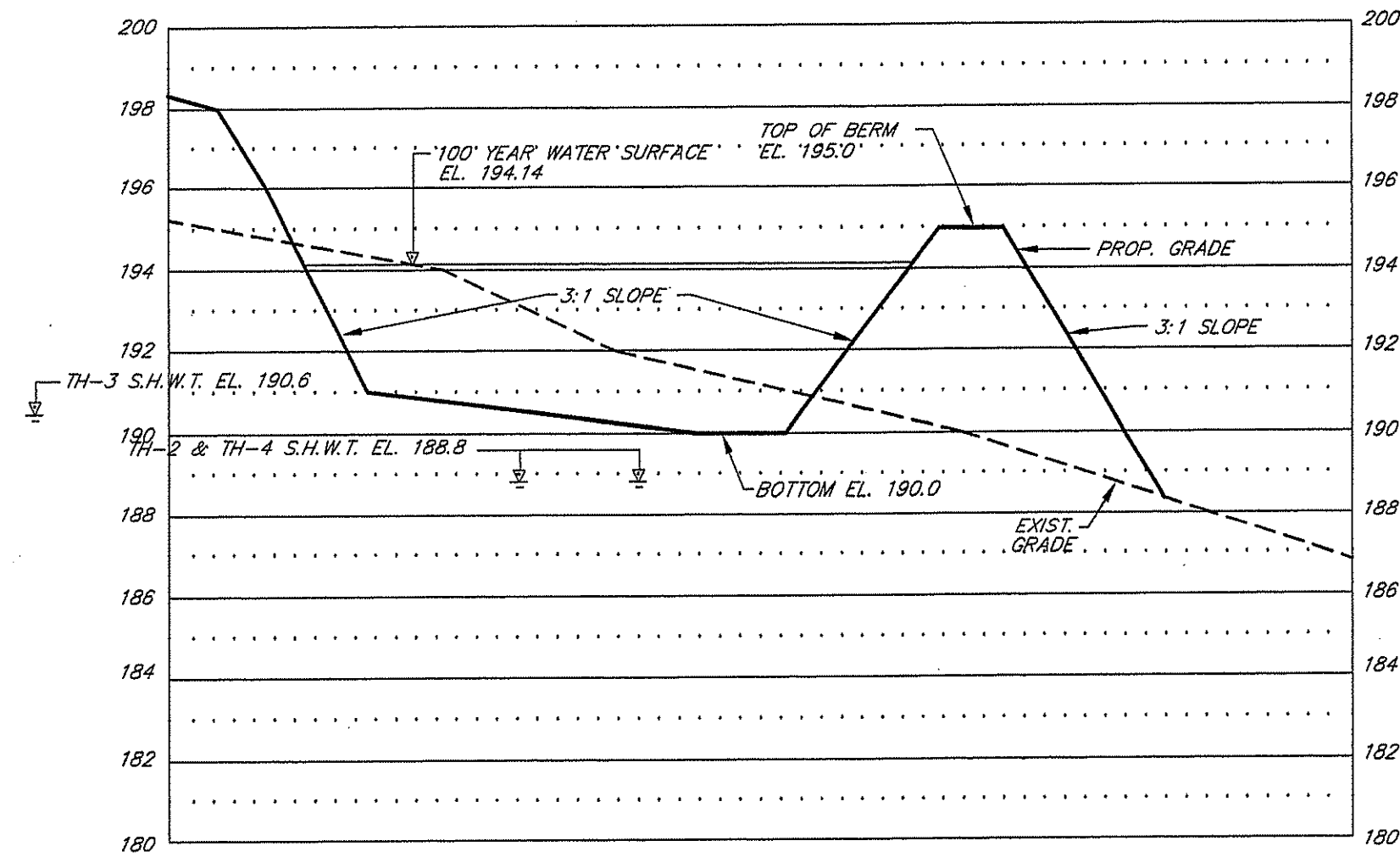
SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
No. 4298

DATE	REVISION
1-17-12	FWW MOD. APPL.
2-6-12	STORAGE BUILDING & L.O.D.

POLIQUIN PERFORMANCE HEADQUARTERS
A.P. 10 LOT 30
1598 SOUTH COUNTY TRAIL
EAST GREENWICH, R.I. 02818
OWNER & APPLICANT
TUCSON PROPERTY MANAGEMENT LLC
42 LADD STREET
EAST GREENWICH, R.I. 02818



S.F.M. ENGINEERING ASSOCIATES
410 TIOGUE AVENUE
COVENTRY, R.I. 02816
(401)828-3736
SCOTT@SFM.NECOXMAIL.COM

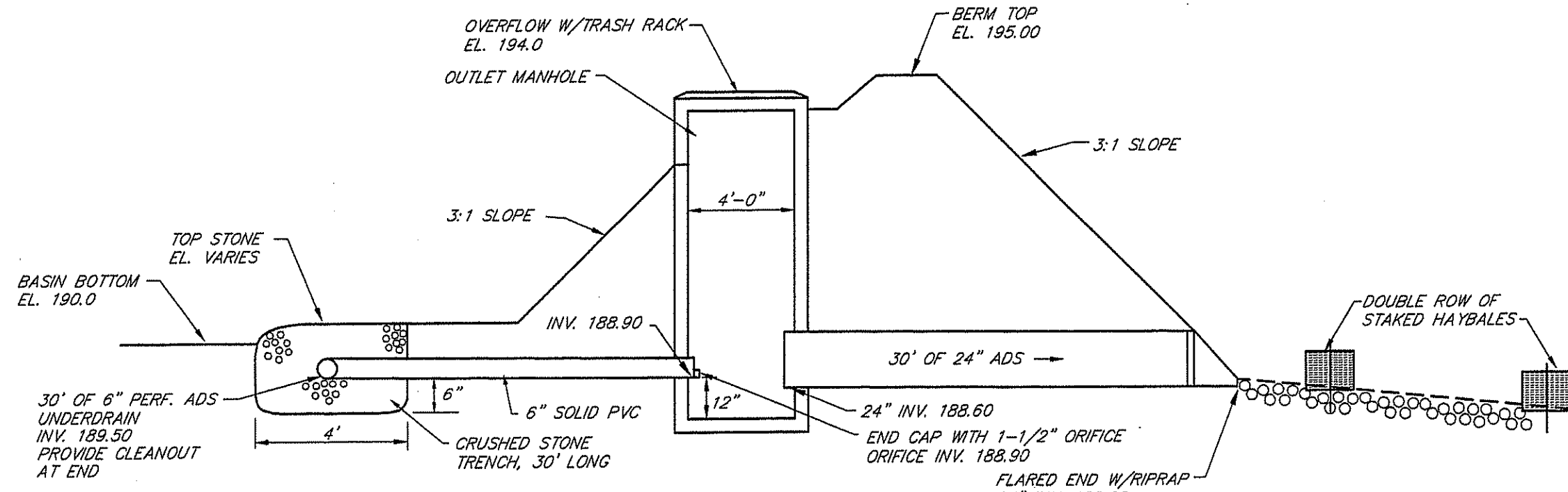


CROSS SECTION - DETENTION BASIN

SCALE: HOR. 1" = 20'
VERT. 1" = 4'

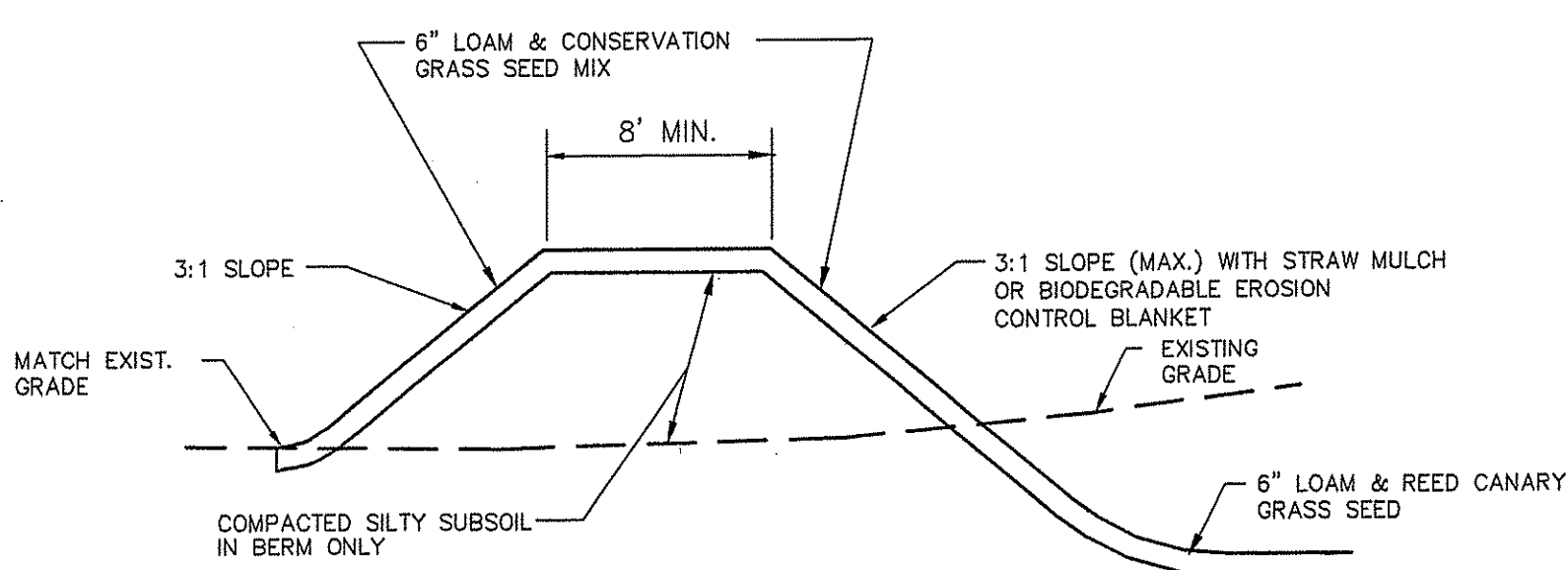
DETENTION BASIN - DIMENSION TABLE

BASIN	ELEV. (FT.)	AREA (S.F.)	OUTLET DATA
SED. FOREBAY	191	740	
	192	1110	
DET. BASIN	190	1,400	
	191	5,200	
	192	6,240	2' WEIR, EL. 192.50
	193	8,710	
	194	10,050	12' OVERFLOW WEIR, EL. 194.00
	195	11,470	



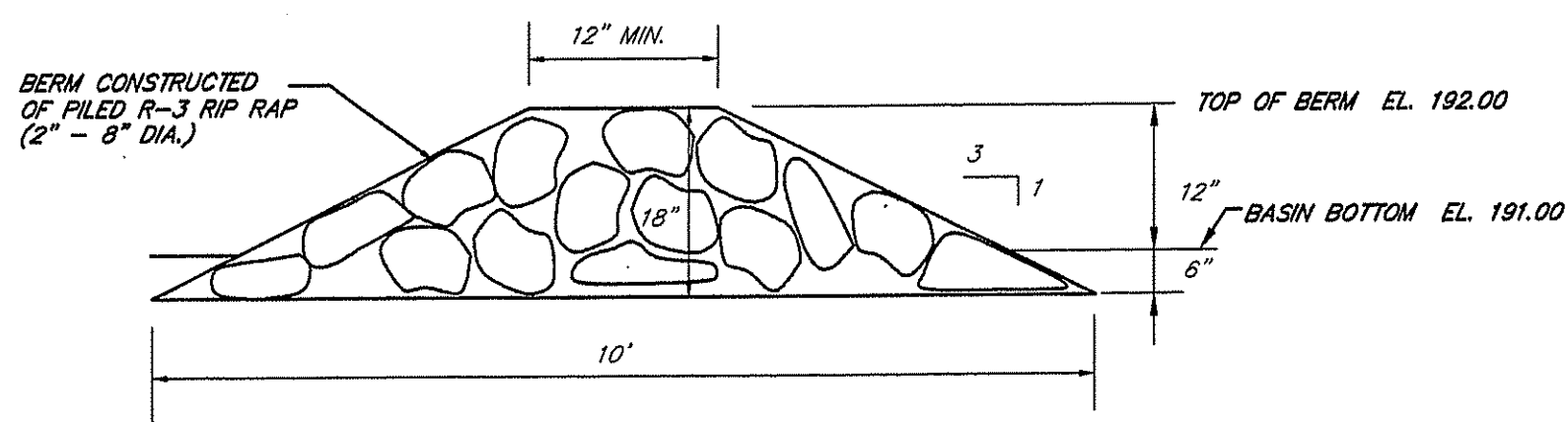
UNDERDRAIN DETAIL - DETENTION BASIN

NOT TO SCALE



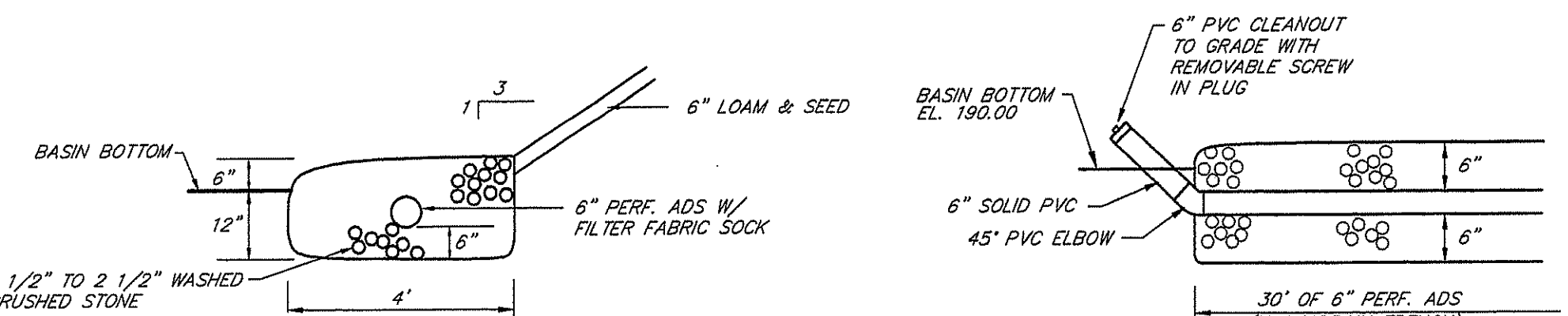
DETENTION BASIN BERM DETAIL

NOT TO SCALE



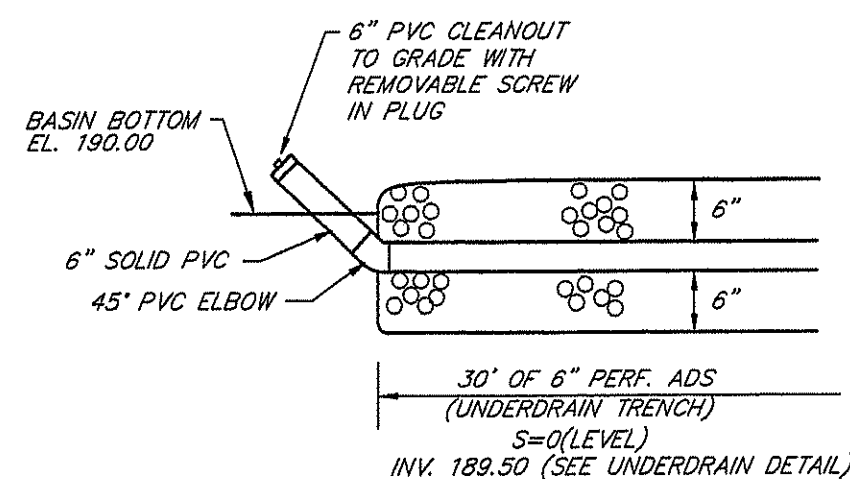
SEDIMENT FOREBAY RIP RAP BERM

NOT TO SCALE



UNDERDRAIN TRENCH

NOT TO SCALE



CLEAN-OUT DETAIL

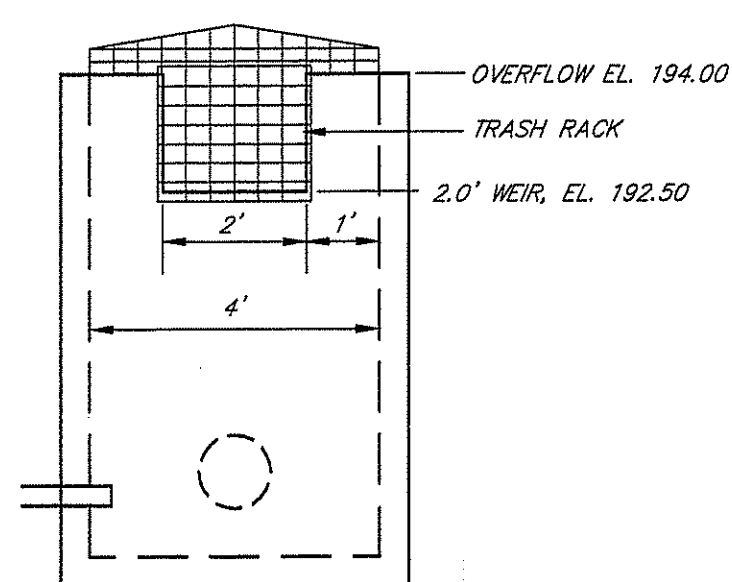
NOT TO SCALE

NOTE: TRASH RACKS BY ACF ENVIRONMENTAL OR EQUAL. PLASTIC PYRAMID STYLE INLET PROTECTION. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

CONTACT: PLASTIC SOLUTIONS INC.
P.O. BOX 4386
WINCHESTER, VA 22604
(877) 877-5727
WWW.ACENVIRONMENTAL.COM

OUTLET STRUCTURE - CROSS SECTION

NOT TO SCALE



OUTLET STRUCTURE DETAIL

NOT TO SCALE

RETAINING WALL NOTES

- RETAINING WALLS SHALL BE PRECAST CONCRETE SEGMENTAL BLOCK, UNILOCK PISA 2 OR EQUAL. WALLS SHALL BE DESIGNED TO MINIMIZE THE NEED FOR GEOGRID REINFORCEMENT.
- RETAINING WALLS SHALL BE CONSTRUCTED IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.
- RUN ADS DRAINS TO DAYLIGHT OR DRAINAGE SYSTEM.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE THE WALLS DESIGNED BY A R.I. REGISTERED GEOTECHNICAL ENGINEER. WALL DESIGN AND MATERIALS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION. POST CONSTRUCTION CERTIFICATION SHALL BE PROVIDED BY THE GEOTECHNICAL ENGINEER.
- WALL DETAILS ARE SHOWN FOR DESIGN INTENT ONLY. WALL CONSTRUCTION SHALL COMPLY WITH THE DESIGN DETAILS PROVIDED BY THE GEOTECHNICAL ENGINEER.
- PEDESTRIAN RAILINGS OR FENCE SHALL BE PROVIDED FOR ALL WALLS HIGHER THAN 29" AS REQUIRED BY THE BUILDING CODE.

DETENTION BASIN NOTES

- SLOPES OF BASIN SHALL BE 3:1(TYP.).
- BOTTOM OF DETENTION BASIN SHALL HAVE A MINIMUM OF 6" LOAM, AND SHALL BE PLANTED WITH REED CANARY GRASS. ALL OTHER AREAS NOT RIP RAPPED SHALL HAVE A MINIMUM OF 6" LOAM, CONSERVATION SEED MIX AND STRAW MULCH.
- DETENTION BASIN SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO OTHER CONSTRUCTION. TEMPORARY DRAINAGE SHALL BE DIVERTED TO DETENTION BASINS.
- ACCUMULATED SILTS AND SEDIMENTS SHALL BE REMOVED FROM THE DETENTION BASIN AS REQUIRED DURING SITE CONSTRUCTION. AFTER EVERY RAIN EVENT AND IMMEDIATELY PRIOR TO LOAMING AND SEEDING.
- INLETS AND OUTLETS TO BASINS SHALL BE PROTECTED WITH HAY BALE EROSION CHECKS.
- UNDERDRAINS SHALL BE PROTECTED WITH HAY BALE EROSION CHECKS UNTIL PERMANENT STABILIZATION IS ESTABLISHED. ACCUMULATED SILTS SHALL BE REMOVED AND PEASTONE AND SAND ENVELOPE REPLACED AS REQUIRED.
- DETENTION BASIN SHALL BE CONSTRUCTION STAKED BY THE PROJECT SURVEYOR TO INSURE ACCURATE LOCATION AND ELEVATION. THE PROJECT SURVEYOR SHALL AS-BUILT SURVEY THE BASINS PRIOR TO SEEDING AND PROVIDE A REPORT TO S.F.M. ENGINEERING. ANY DISCREPANCIES SHALL BE CORRECTED PRIOR TO SEEDING.

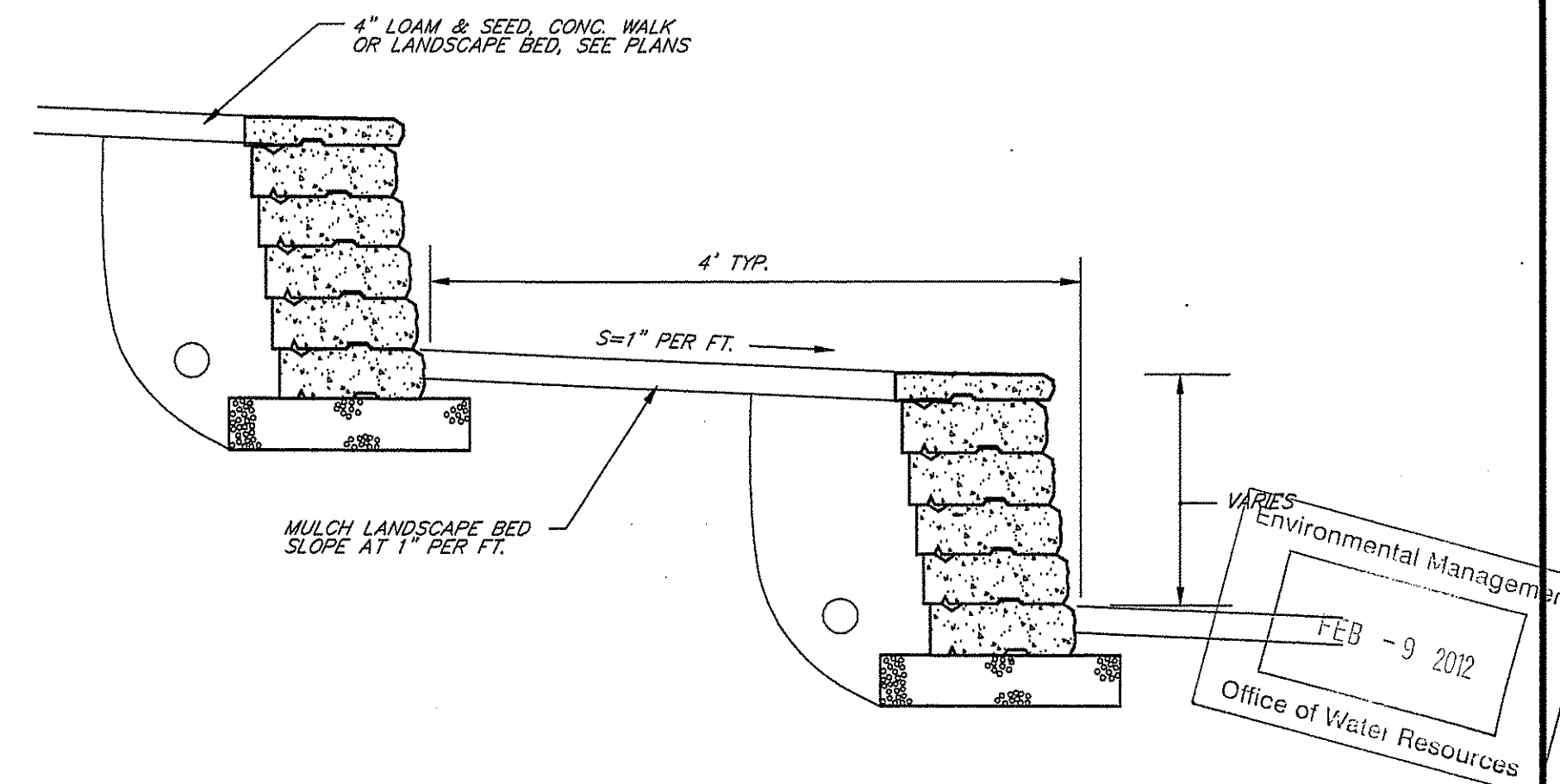
DETENTION BASIN MAINTENANCE PLAN

THE DETENTION BASINS SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:

- THE GRASS ON THE BASIN (DIKE & SLOPES) SHALL BE MOWED THREE (3) TIMES BETWEEN THE MONTHS OF MAY AND OCTOBER. MOWED HEIGHT OF VEGETATION SHALL NOT BE LESS THAN TWO INCHES.
- THE INLET & OUTLET STRUCTURES TO THE BASIN SHALL BE KEPT CLEAN OF SILT AND DEBRIS. THE PIPES SHALL BE CLEANED AT THE THREE (3) MOWINGS AND ONCE DURING THE WINTER MONTHS.
- ACCUMULATED SILT AND DEBRIS SHALL BE REMOVED FROM THE BASIN ONCE EVERY YEAR OR AS NEEDED.
- ACCUMULATED SILT, SAND AND DEBRIS SHALL BE REMOVED FROM CATCH BASIN SUMPS AS REQUIRED BUT AT A MINIMUM OF TWO (2) TIMES A YEAR IN THE FALL AND SPRING.
- BASINS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL APPROVAL OF CONSTRUCTION.
- AFTER FINAL APPROVAL THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE ITEMS.

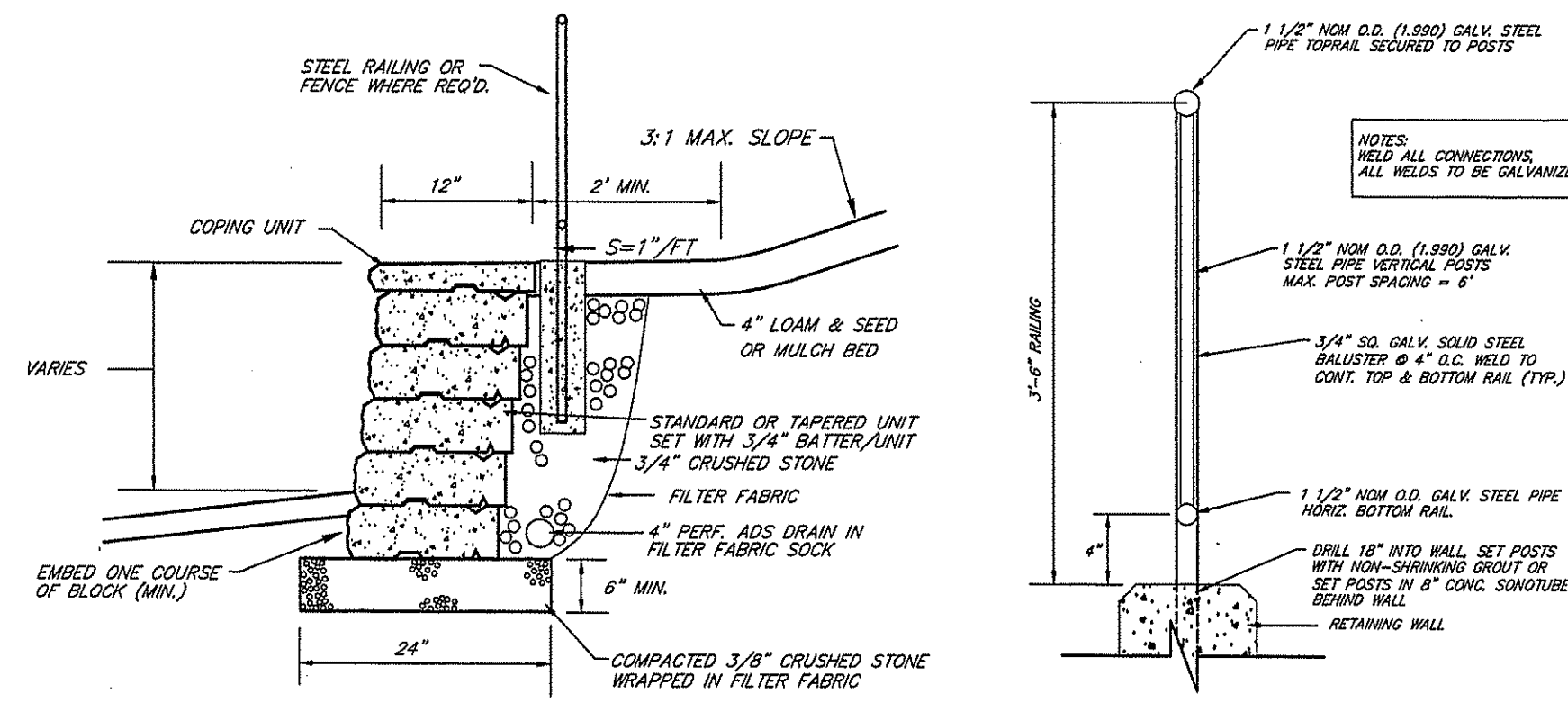
DRAINAGE NOTES

- CATCH BASINS SHALL BE 4' I.D. PRECAST CONC. WITH 3' SUMP R.I. STD. 4.4.0 TYPE 'F' IN PAVED AREAS, TYPE 'R' IN GRASS AREAS. OIL SEPARATOR CATCH BASINS SHALL BE 5' I.D.
- CATCH BASIN FRAMES & GRATES SHALL BE R.I. STD. 6.3.2. FRAME & GRATES SHALL BE SET 2" BELOW DESIGN GRADE UNTIL FINAL PAVEMENT COURSE IS TO BE INSTALLED. AT FINAL PAVING, RAISE FRAME & GRATE TO DESIGN GRADE.
- MANHOLES SHALL BE 4' I.D. PRECAST CONC. R.I. STD. 4.2.0.
- MANHOLE FRAMES & COVERS SHALL BE R.I. STD. 6.2.1.
- ON-SITE DRAINAGE PIPING SHALL BE HDPE ADS-N12 (OR EQUAL) UNLESS OTHERWISE SPECIFIED. DRAINAGE PIPING WITHIN THE STATE HIGHWAY SHALL BE RCP.
- CATCH BASINS SHALL BE CLEANED A MINIMUM OF TWICE PER YEAR (SPRING & FALL). REMOVED SILTS AND OIL SHALL BE DISPOSED OF AT A LICENSED WASTE FACILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION & MAINTENANCE OF ALL DRAINAGE FACILITIES, AS PER THEIR RESPECTIVE PROGRAMS, UNTIL FINAL ACCEPTANCE OF CONSTRUCTION.
- UPON FINAL ACCEPTANCE OF THE CONSTRUCTION, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ALL DRAINAGE INSPECTION & MAINTENANCE ITEMS OF THE DETENTION BASIN, OUTLET STRUCTURES, C.B.'S & M.H.'S.
- ALL DRAINAGE INLETS AND OUTLETS SHALL HAVE STAKED HAYBALE EROSION CHECKS WHICH SHALL BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED.



TERRACED WALL DETAIL

NOT TO SCALE

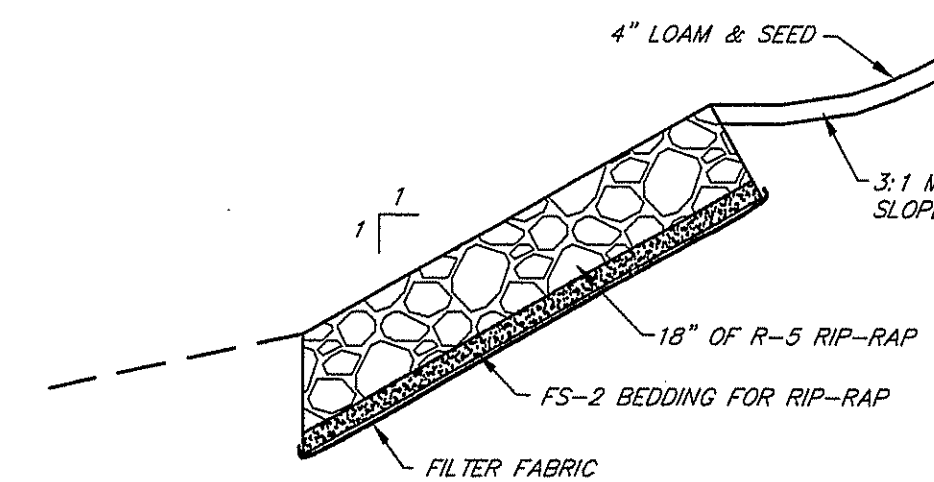


RETAINING WALL DETAIL

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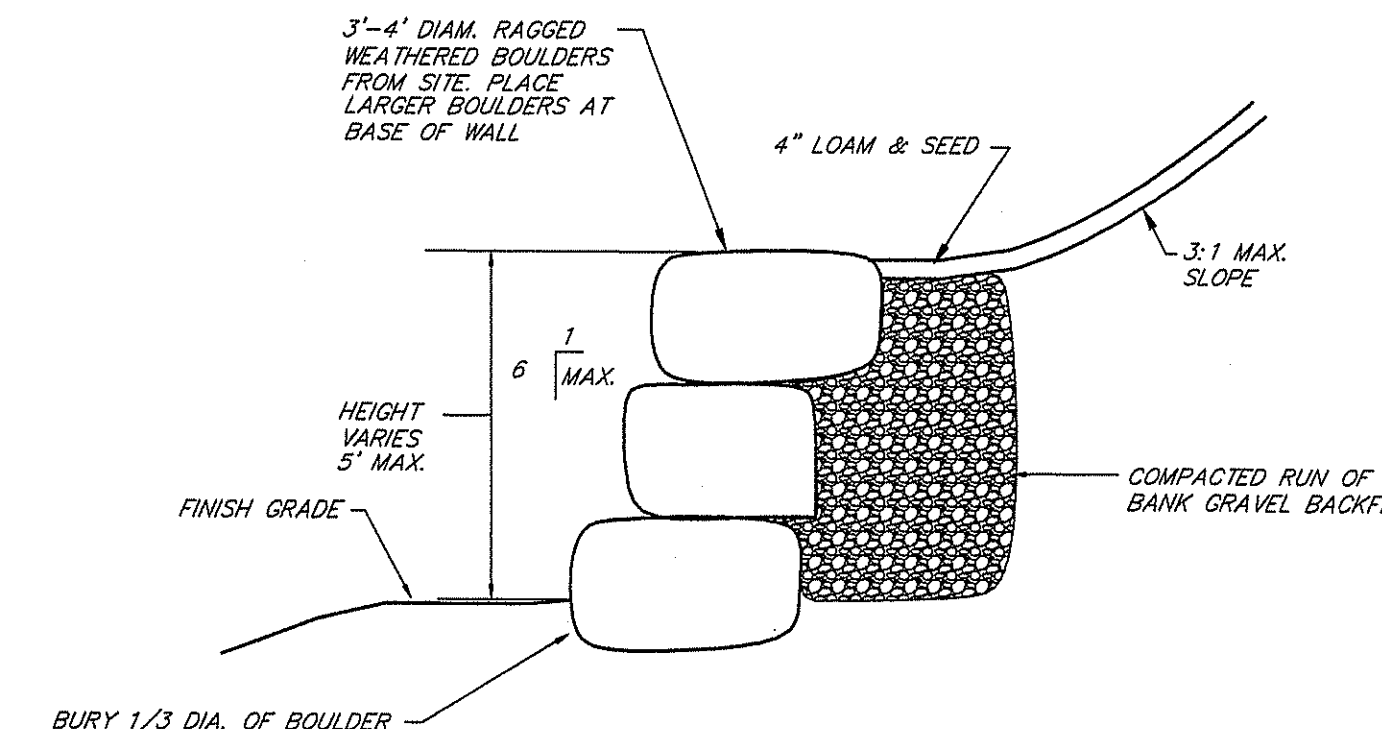
WALL RAILING DETAIL

NOT TO SCALE



STONE RIP-RAP SLOPE DETAIL

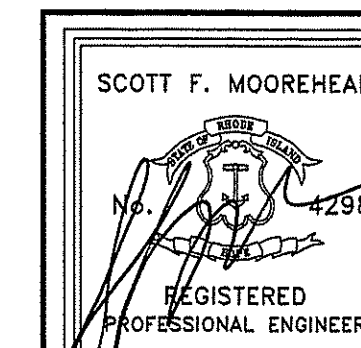
NOT TO SCALE



BOULDER RETAINING WALL DETAIL

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB 16 2012 FILE # 07-0237
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



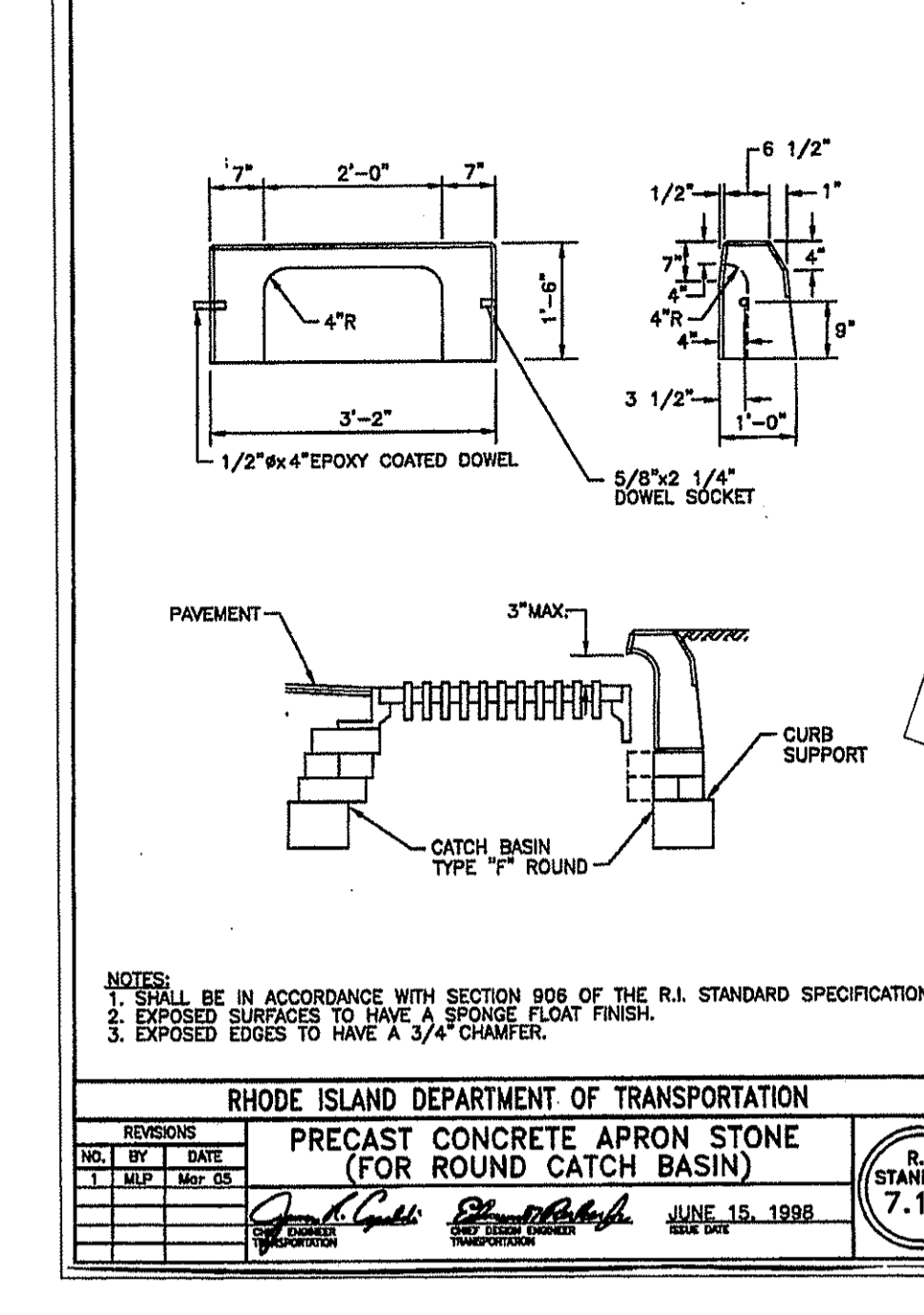
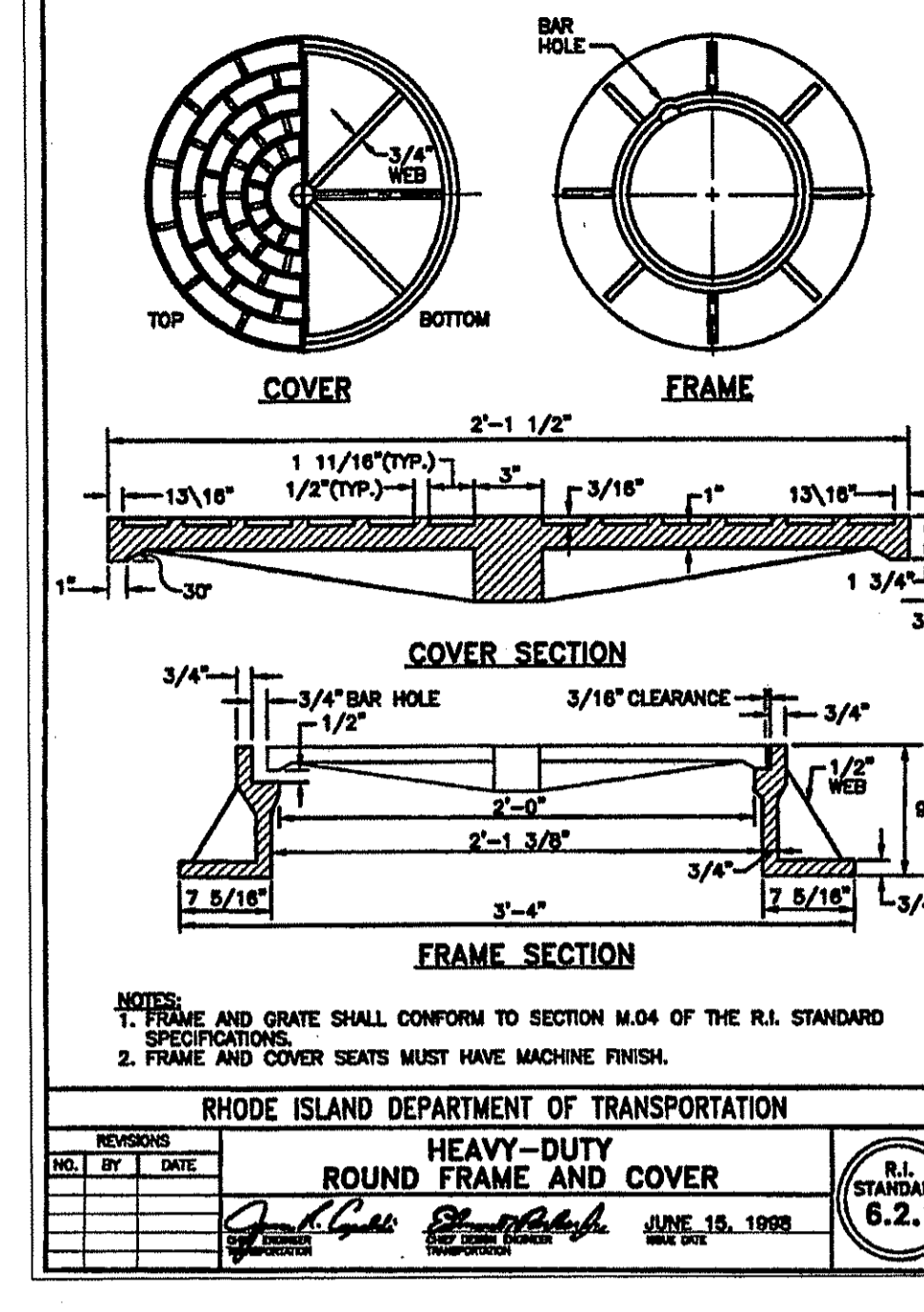
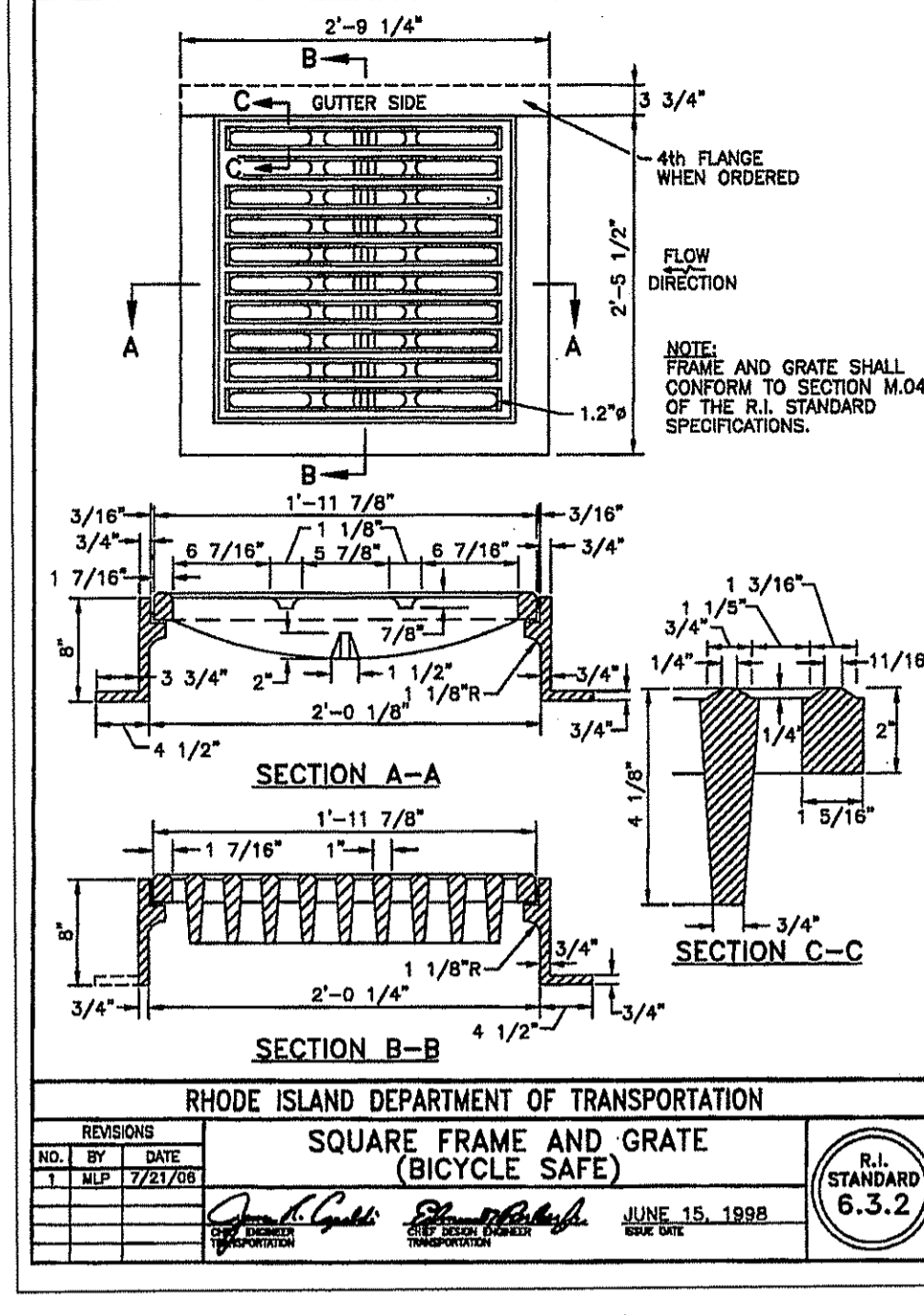
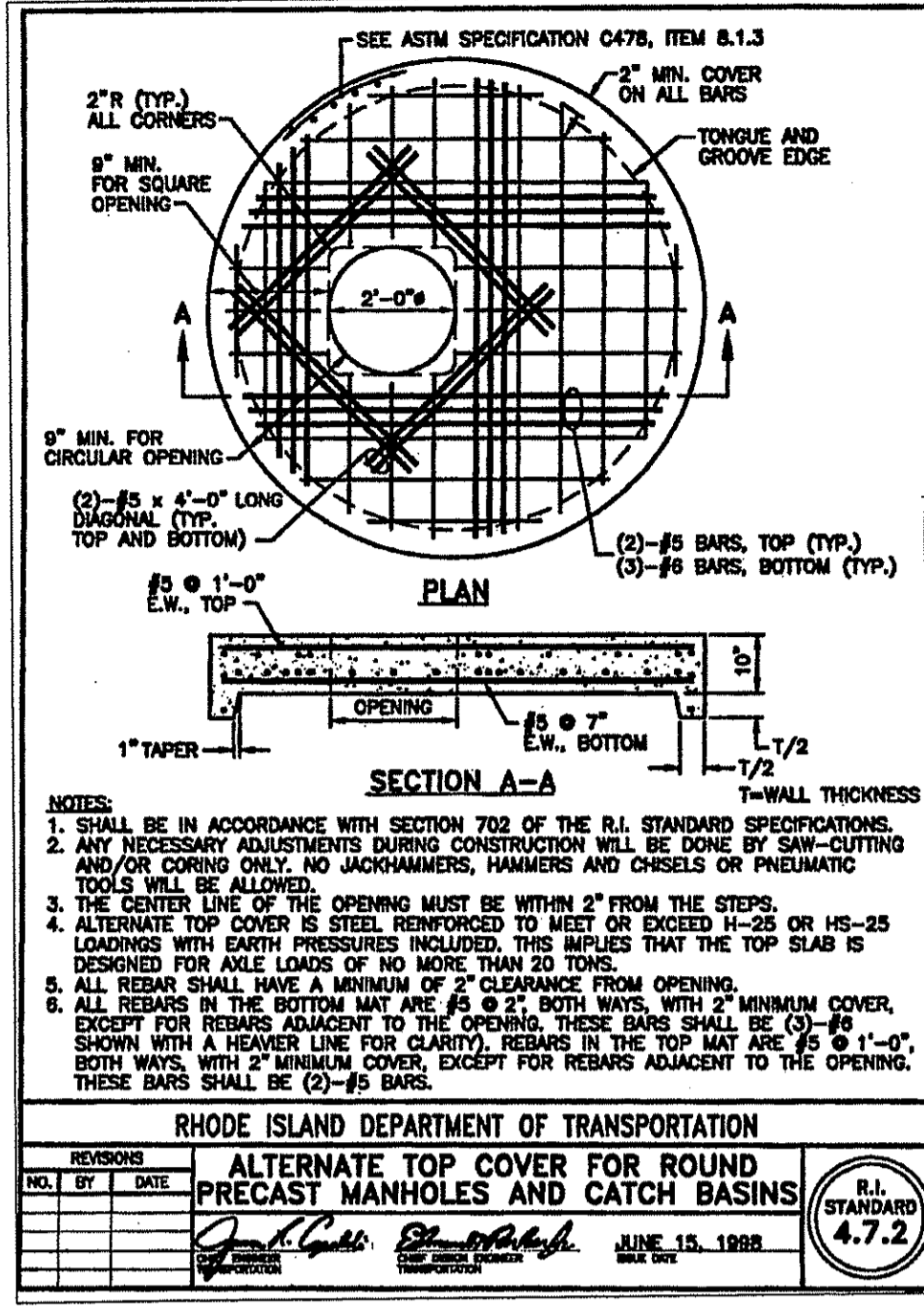
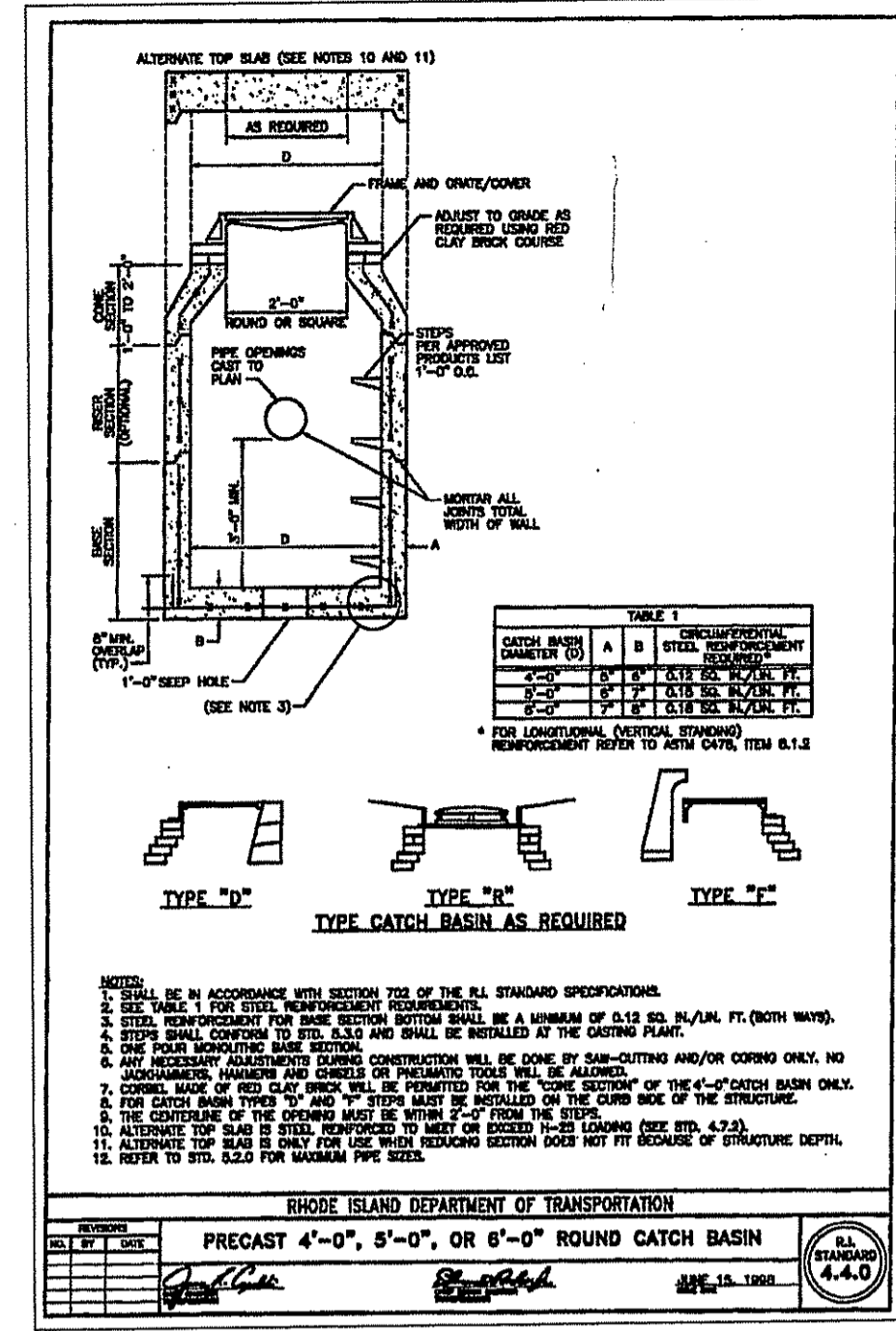
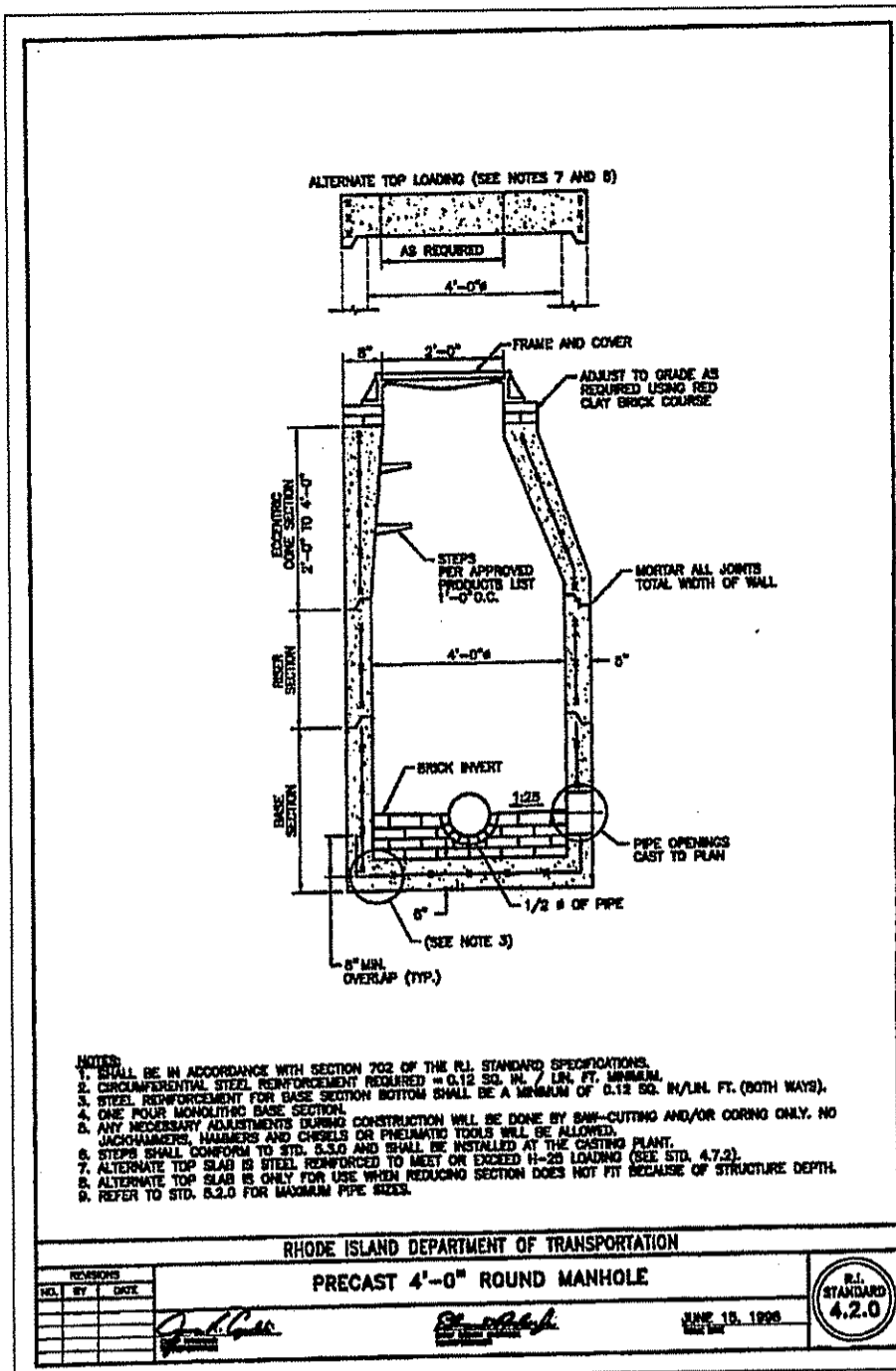
DATE	REVISION
1-17-12	DRAIN NOTES, DETAILS

POLIQUIN PERFORMANCE HEADQUARTERS
A.P. 10 LOT 30
1598 SOUTH COUNTY TRAIL
EAST GREENWICH, R.I. 02818
OWNER & APPLICANT
TUCSON PROPERTY MANAGEMENT LLC
42 LADD STREET SUITE 109
EAST GREENWICH, R.I. 02818

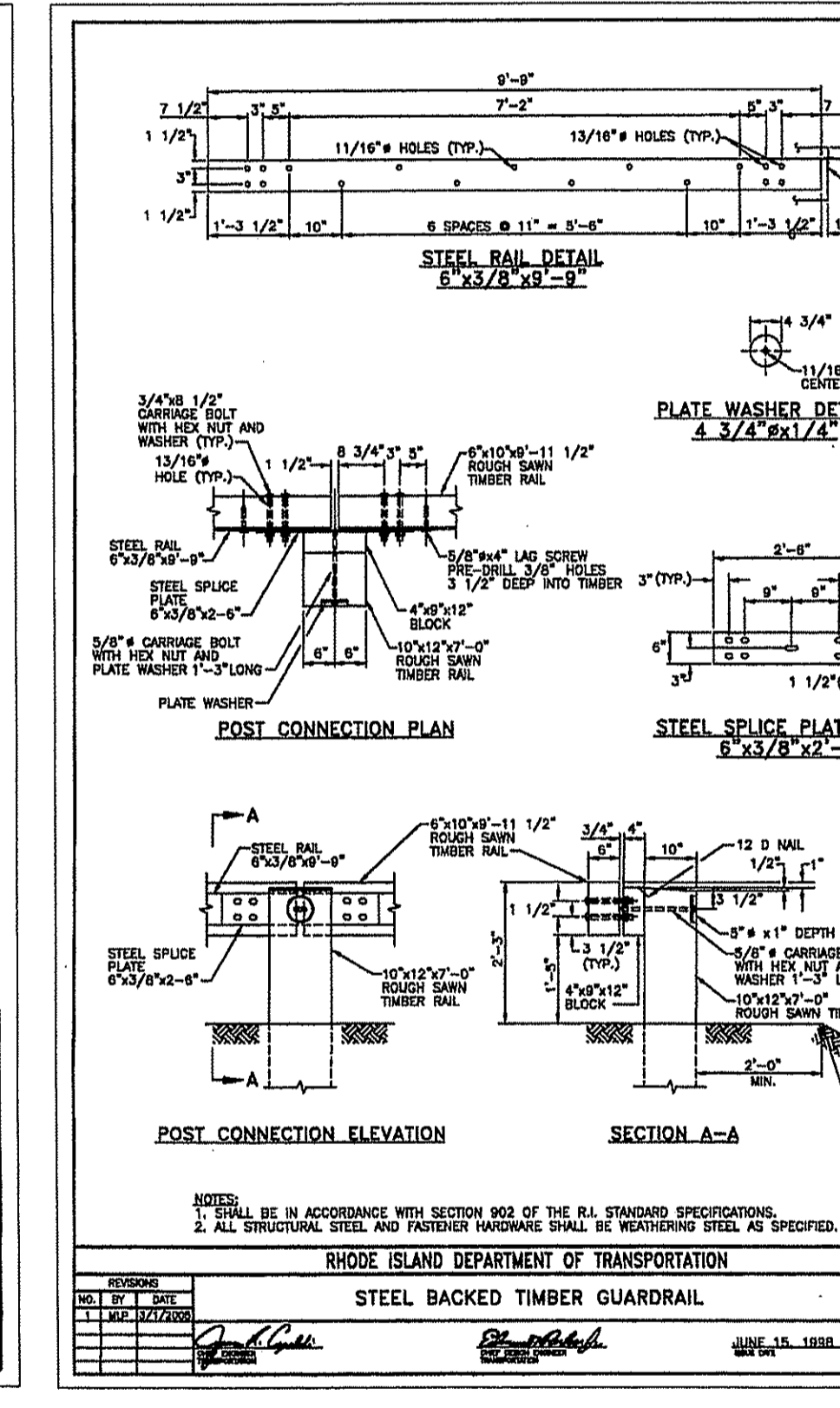
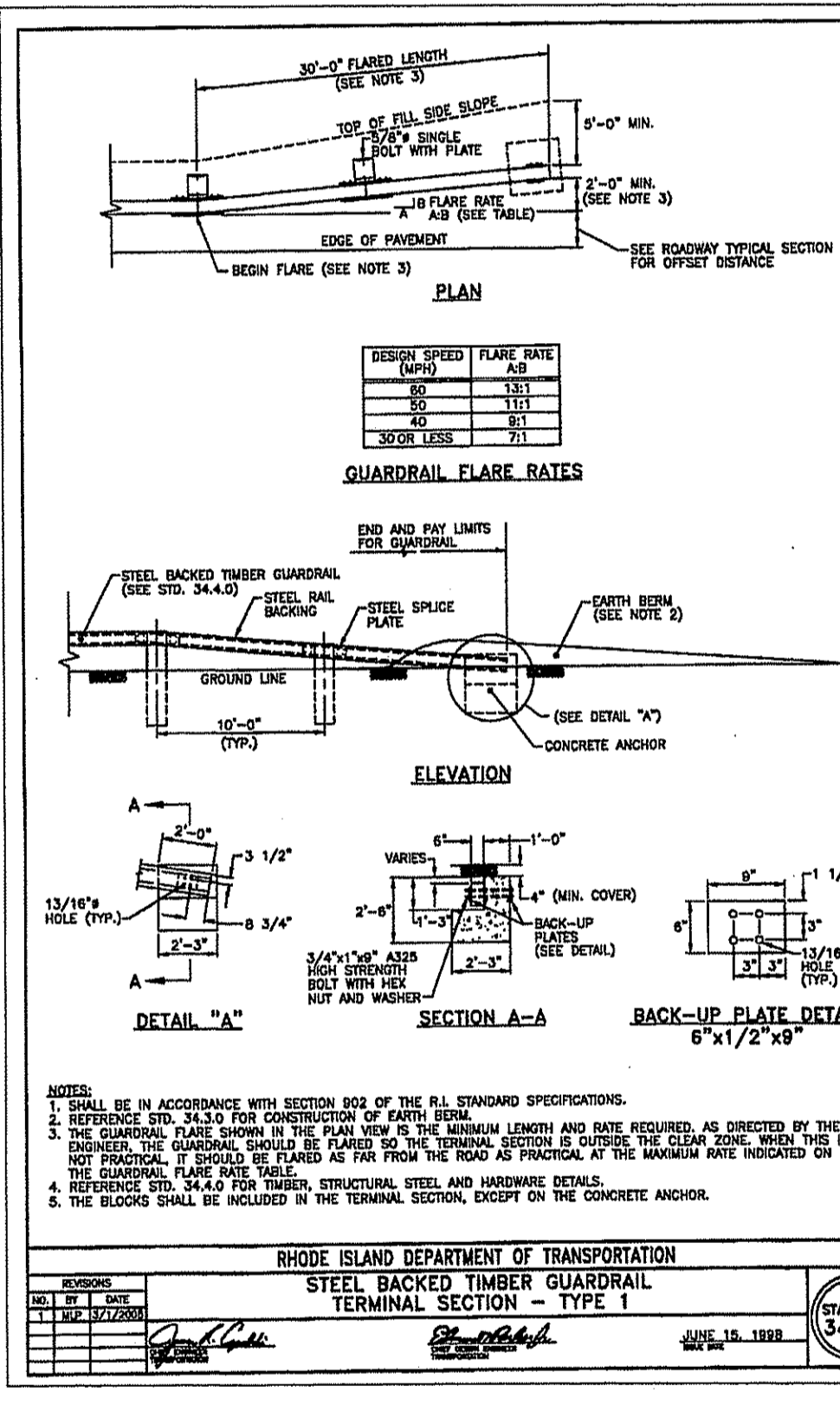
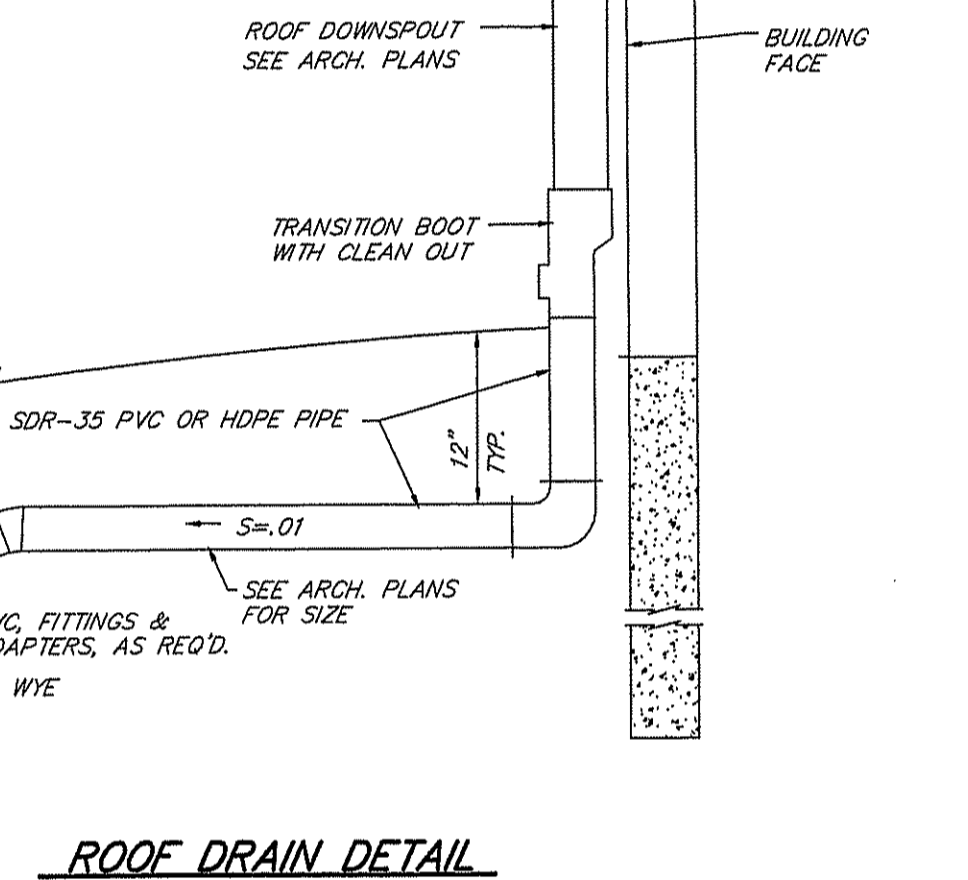
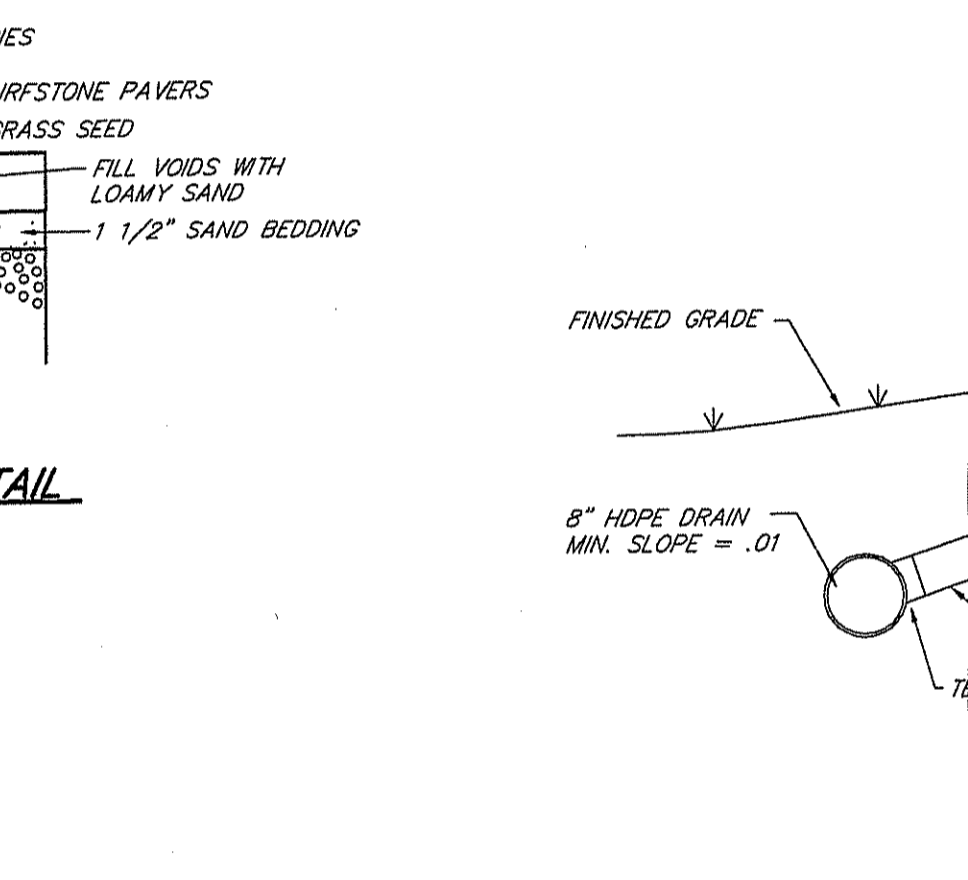
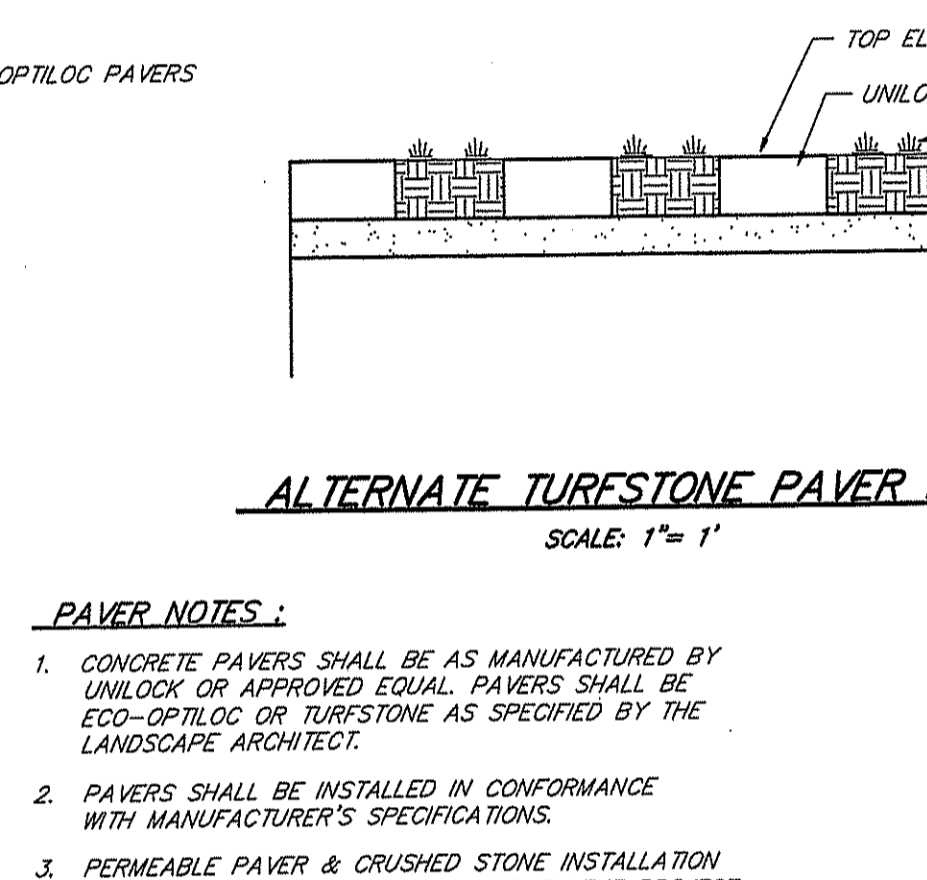
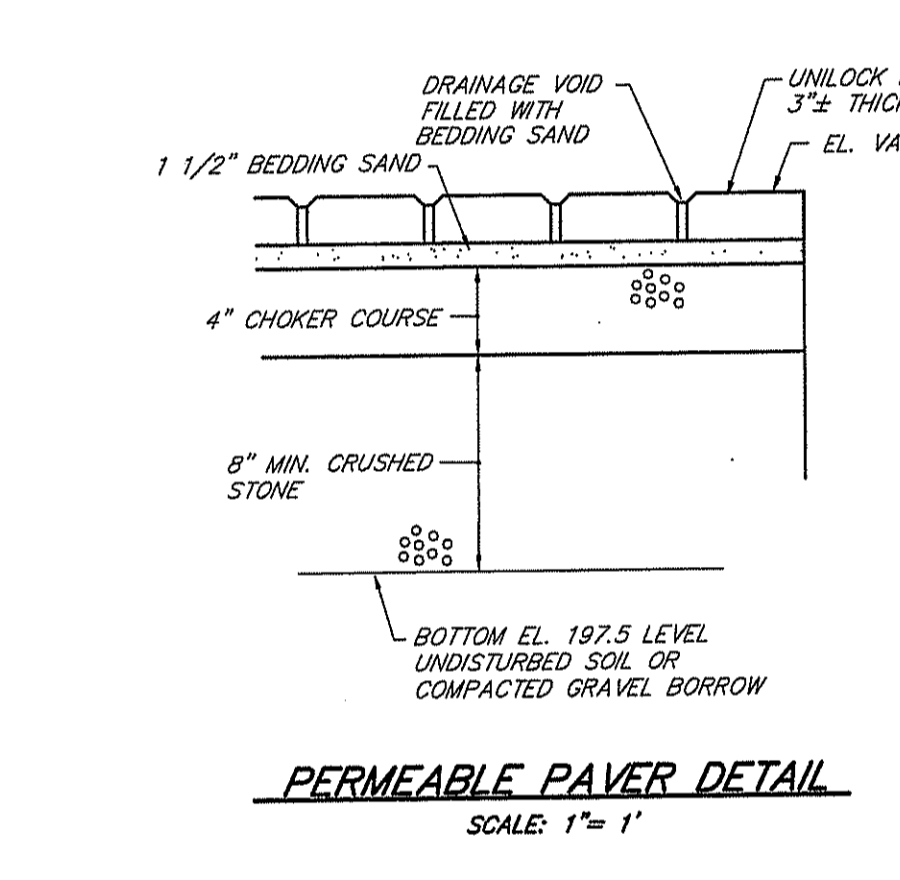


S.F.M. ENGINEERING ASSOCIATES
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SCOTT@SFM.NECCOMAIL.COM

CONSTRUCTION DETAILS-1



Environmental Management
 FEB - 9 2012
 Office of Water Resources



POROUS PAVER MAINTENANCE NOTES:

- PAVERS AND CRUSHED STONE SHALL NOT BE INSTALLED UNTIL THE SITE IS READY FOR BITUMINOUS 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.
- IF PONDING ON THE SURFACE OCCURS AND ROUTINE CLEANING DOES NOT RESTORE INFILTRATION, THEN RECONSTRUCTION OF THE AREA OF FAILURE SHALL BE REQUIRED. POROUS PAVERS SHALL BE REMOVED, BEDDING MATERIAL CLOGGED WITH SILTS SHALL BE REPLACED AND POROUS PAVERS REINSTALLED.

PAVER BEDDING SAND
 ASTM C33 NO 8

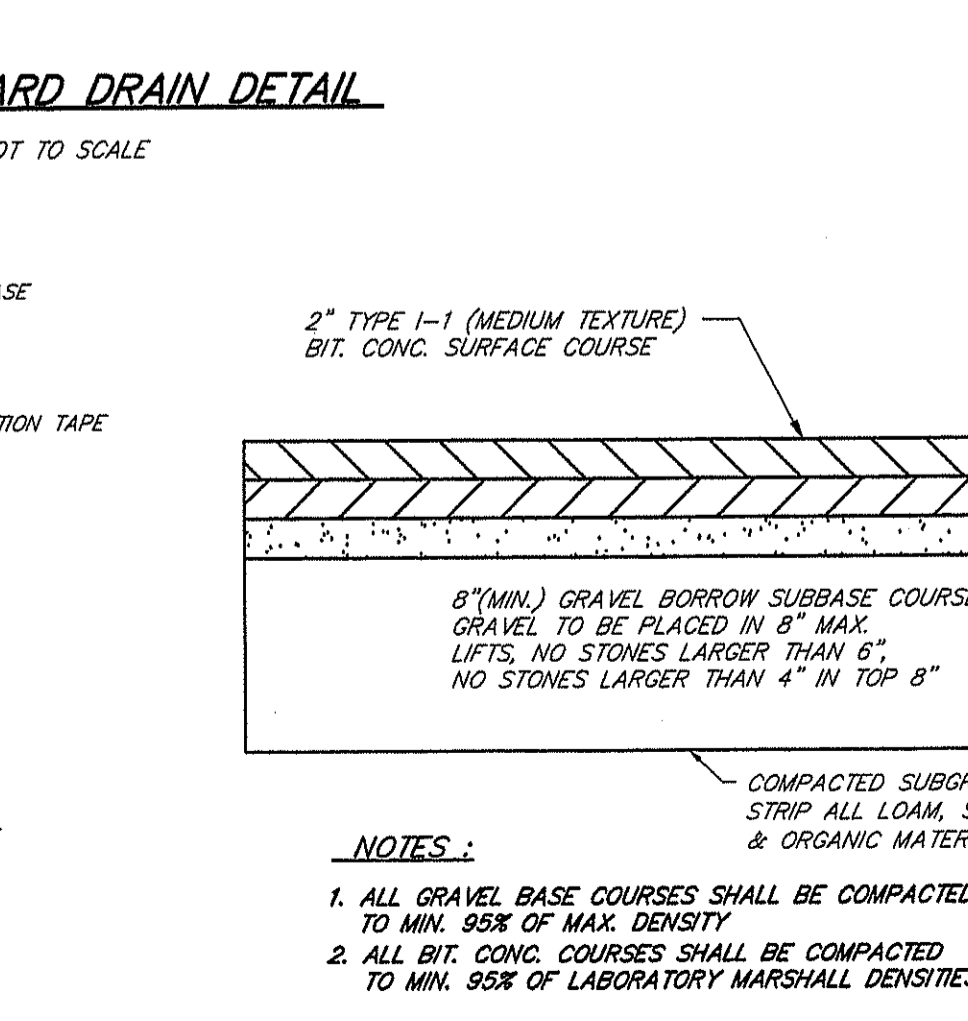
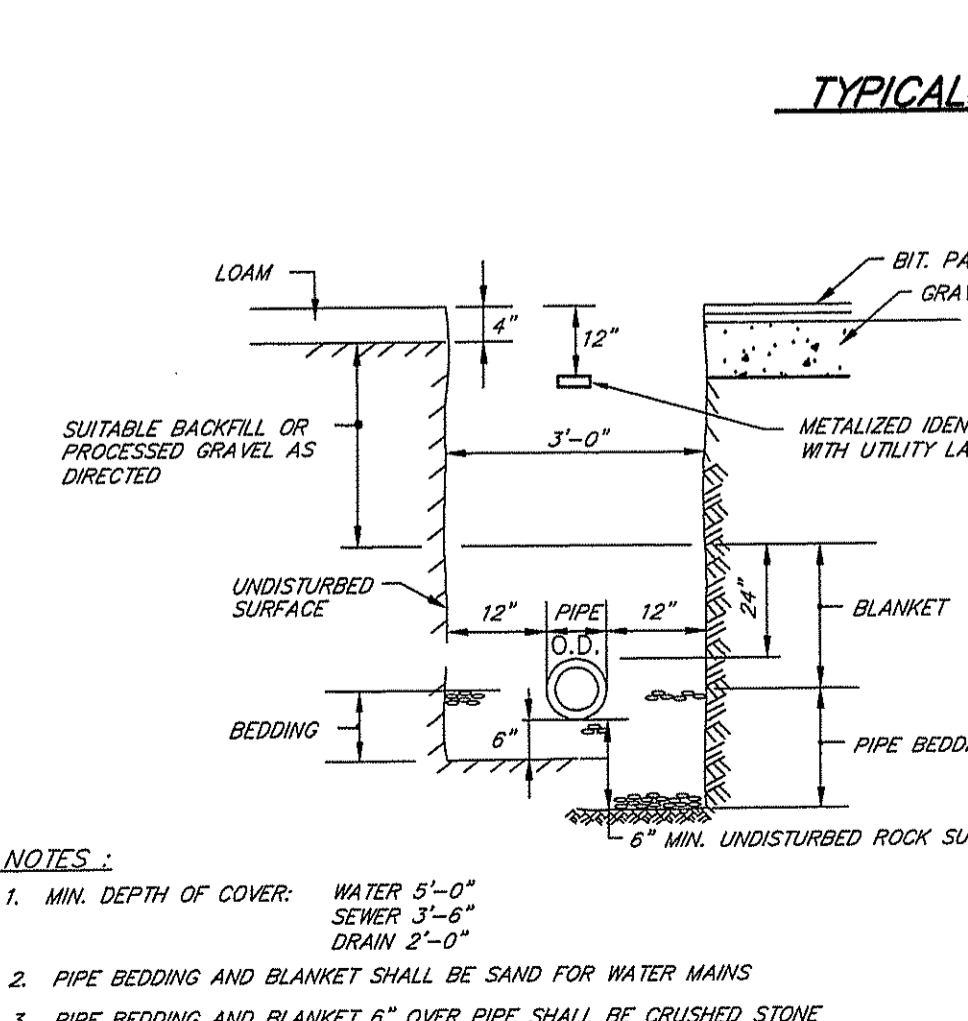
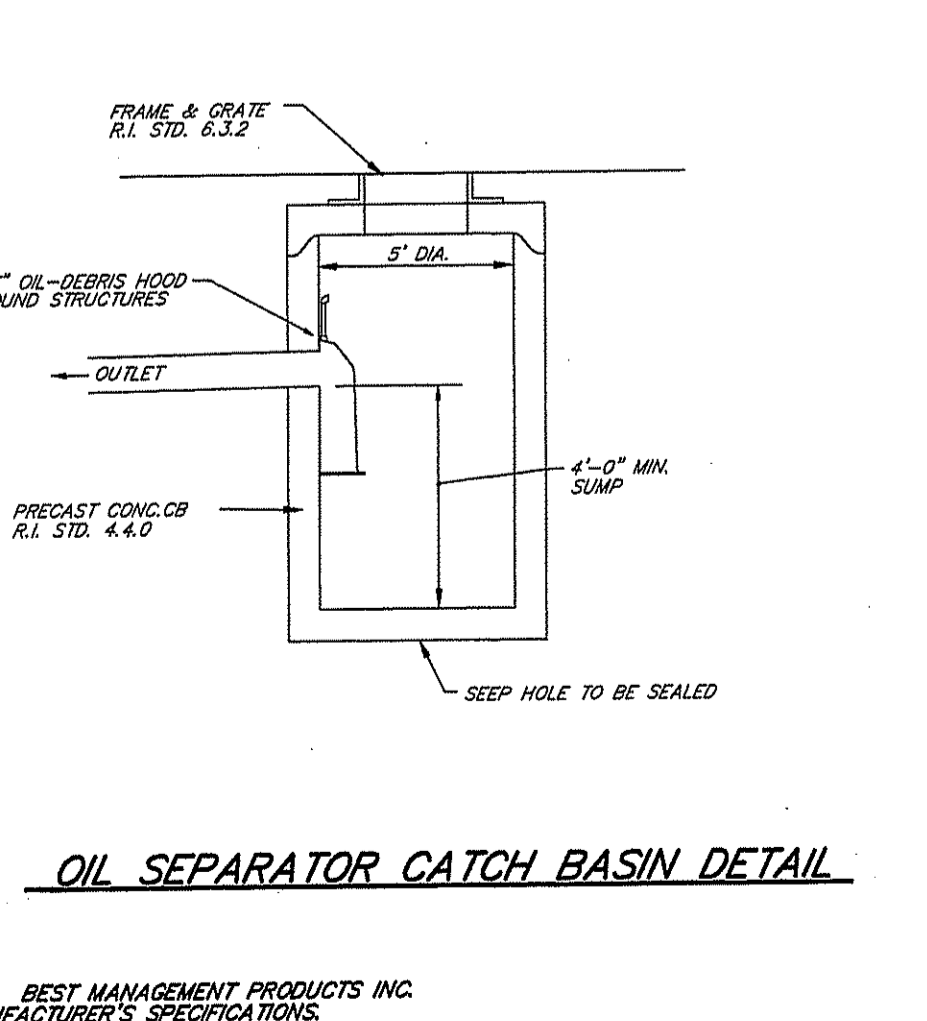
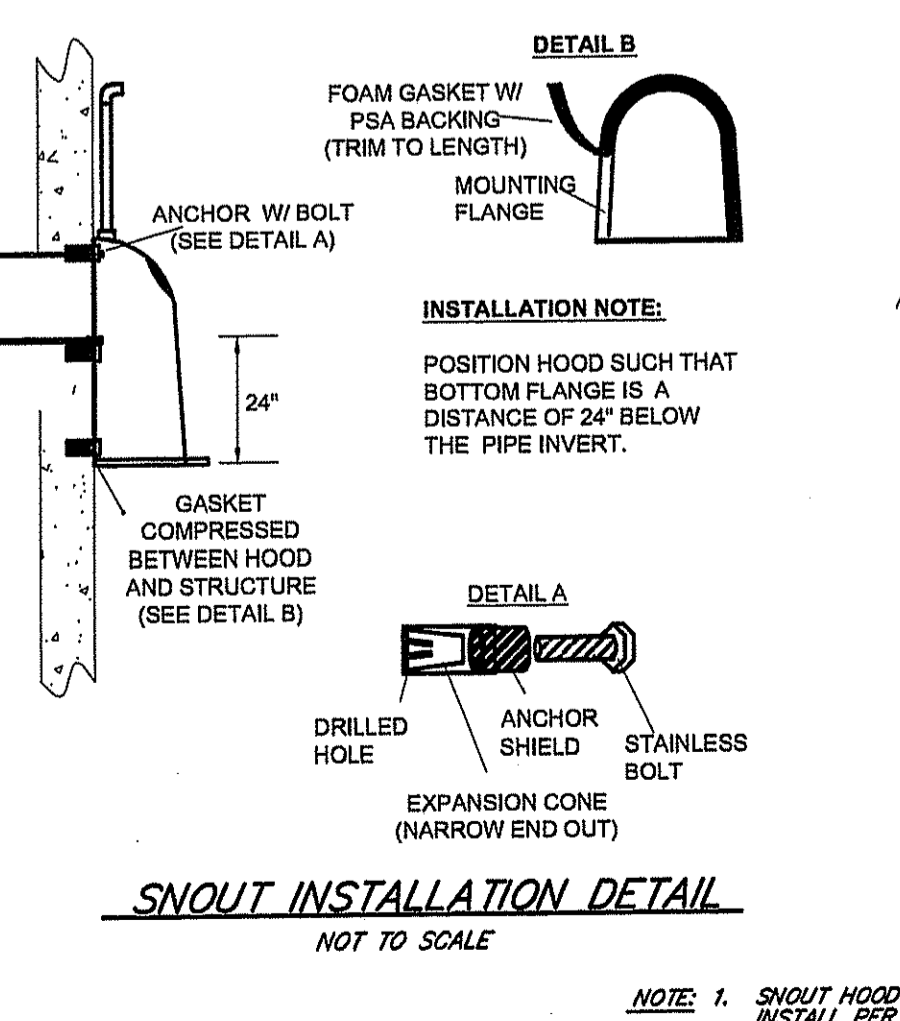
SIZE	PERCENT PASSING
1/2"	100
3/8"	85 TO 100
NO. 4	10 TO 30
NO. 8	0 TO 10
NO. 16	0 TO 5
NO. 200	0

CHOKER COURSE
 AASHTO NO 57

SIZE	PERCENT PASSING
1 1/2"	100
1"	95 TO 100
1/2"	25 TO 60
NO. 4	0 TO 10
NO. 8	0 TO 5
NO. 200	0

CRUSHED STONE
 AASHTO NO 5

SIZE	PERCENT PASSING
1 1/2"	100
1"	90 TO 100
3/4"	20 TO 55
1/2"	0 TO 10
3/8"	0 TO 5
NO. 4	0



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

SCOTT F. MOOREHEAD
 No. 4298
 REGISTERED PROFESSIONAL ENGINEER

DATE	REVISION

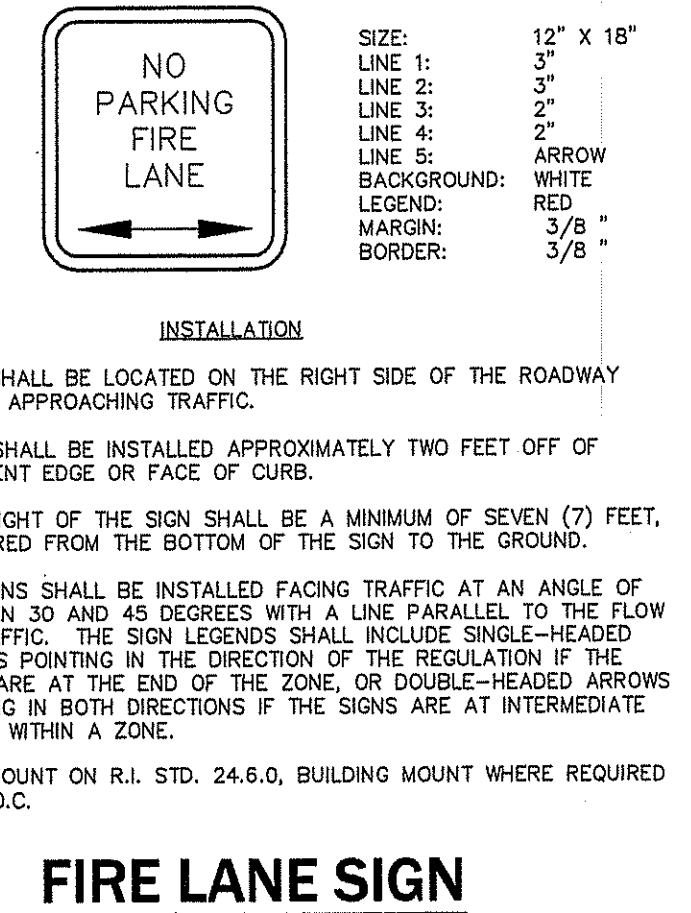
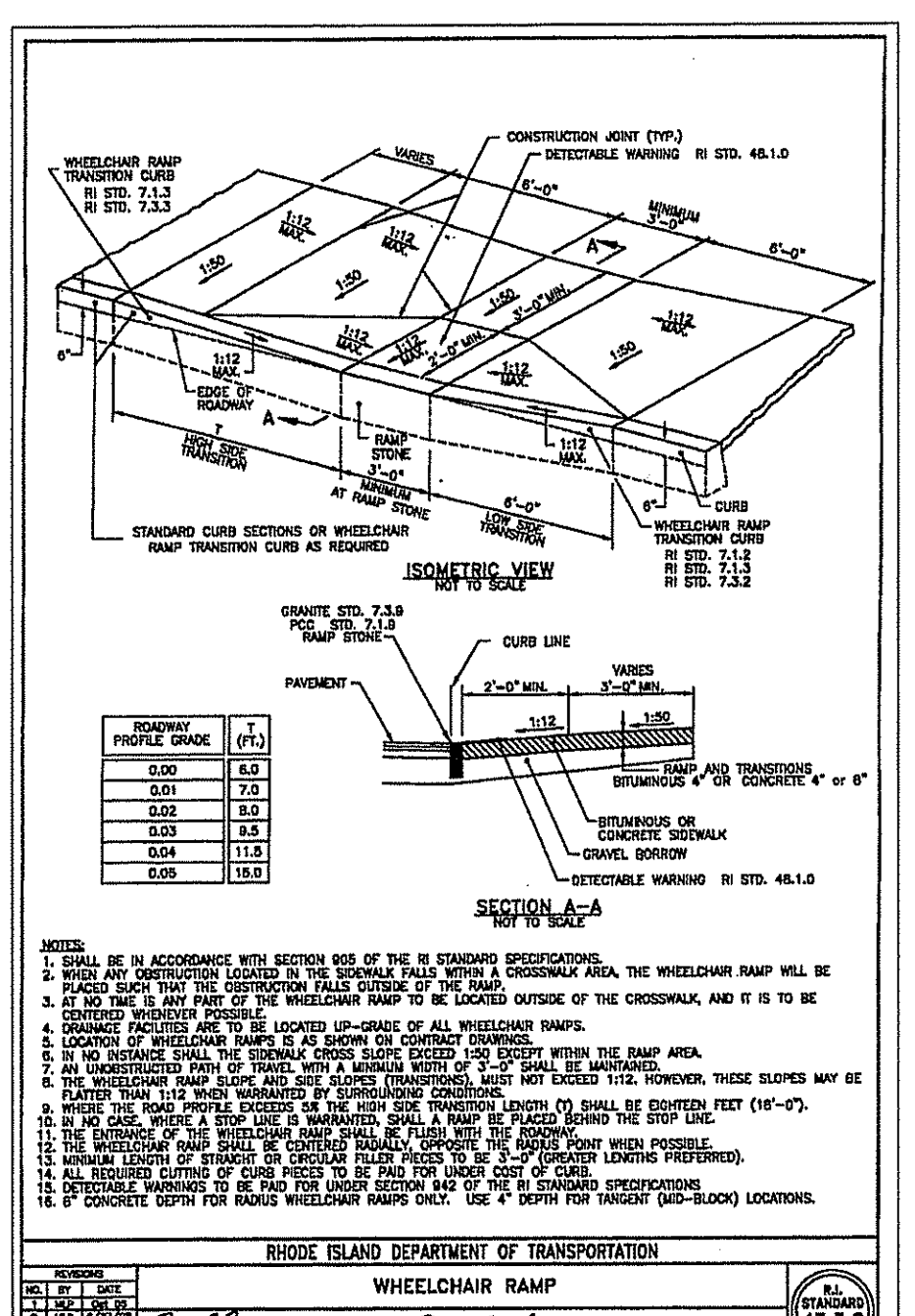
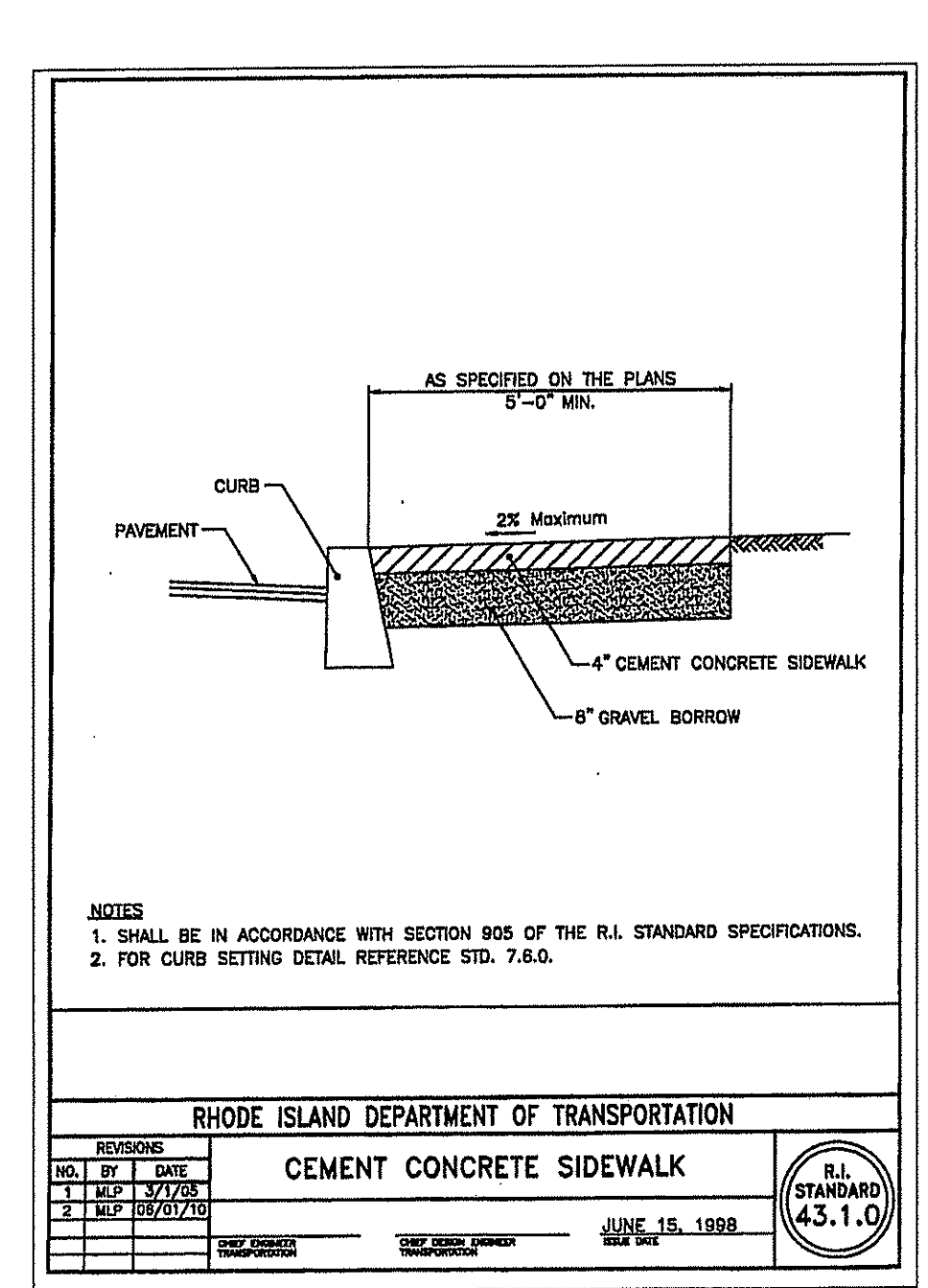
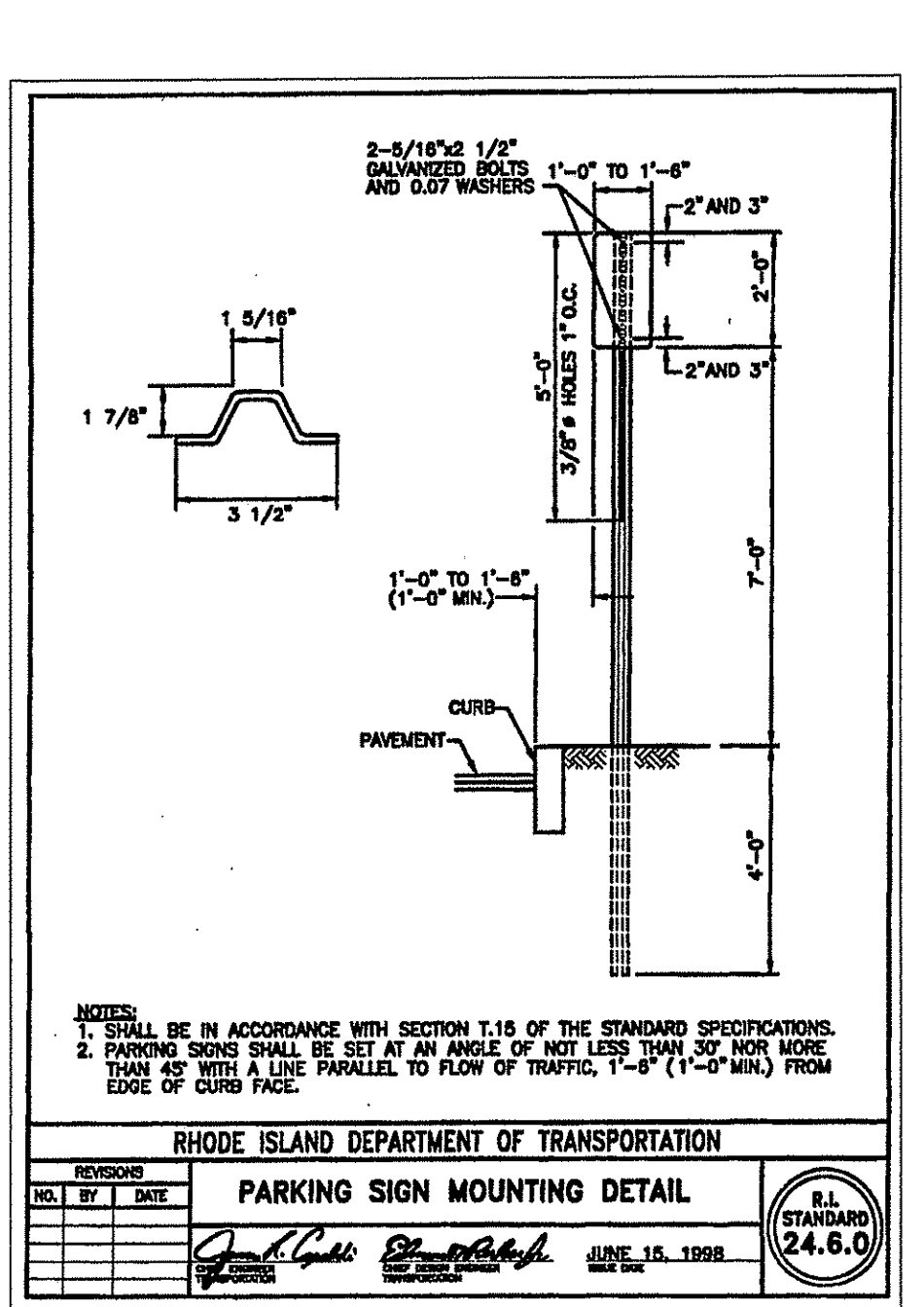
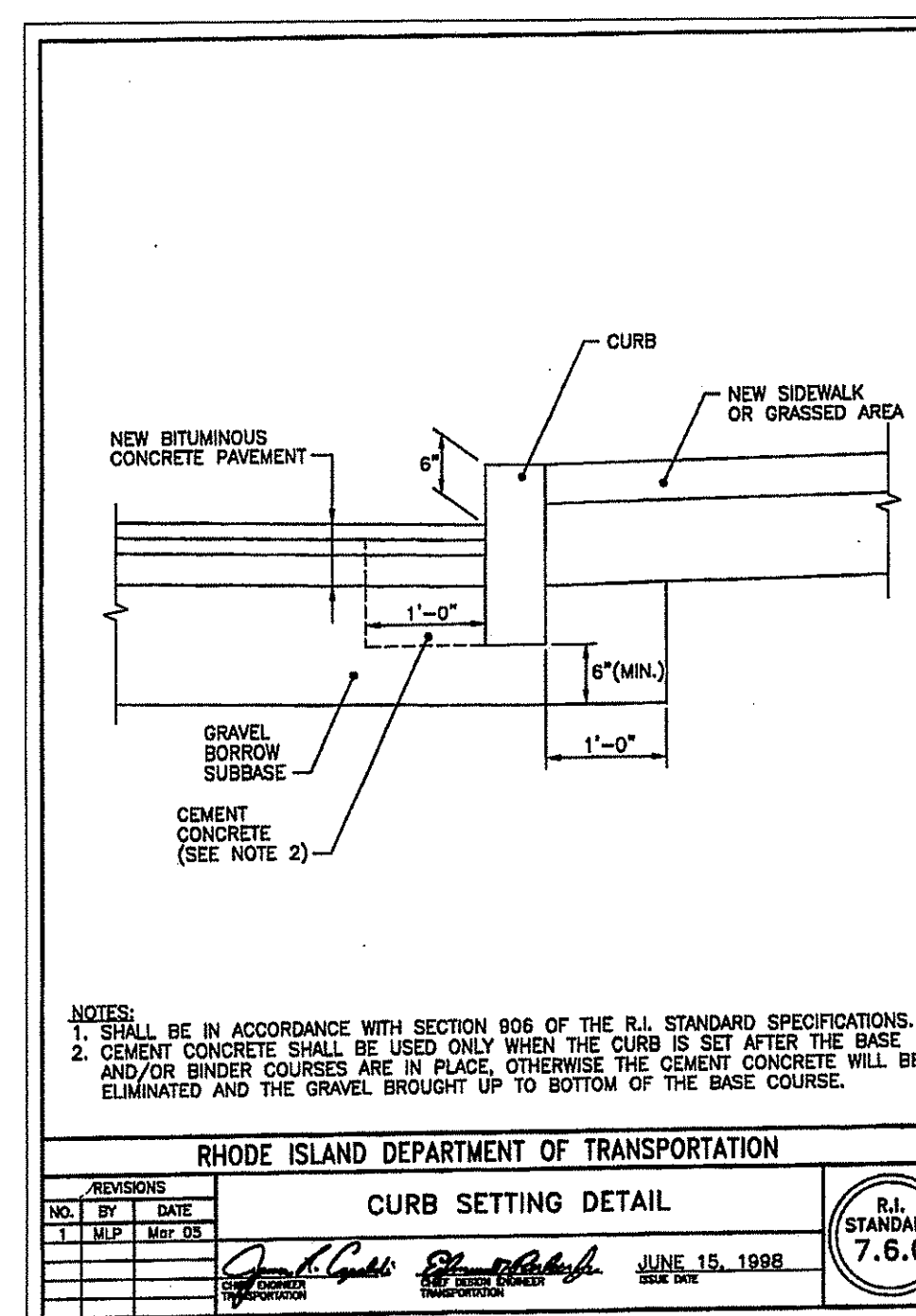
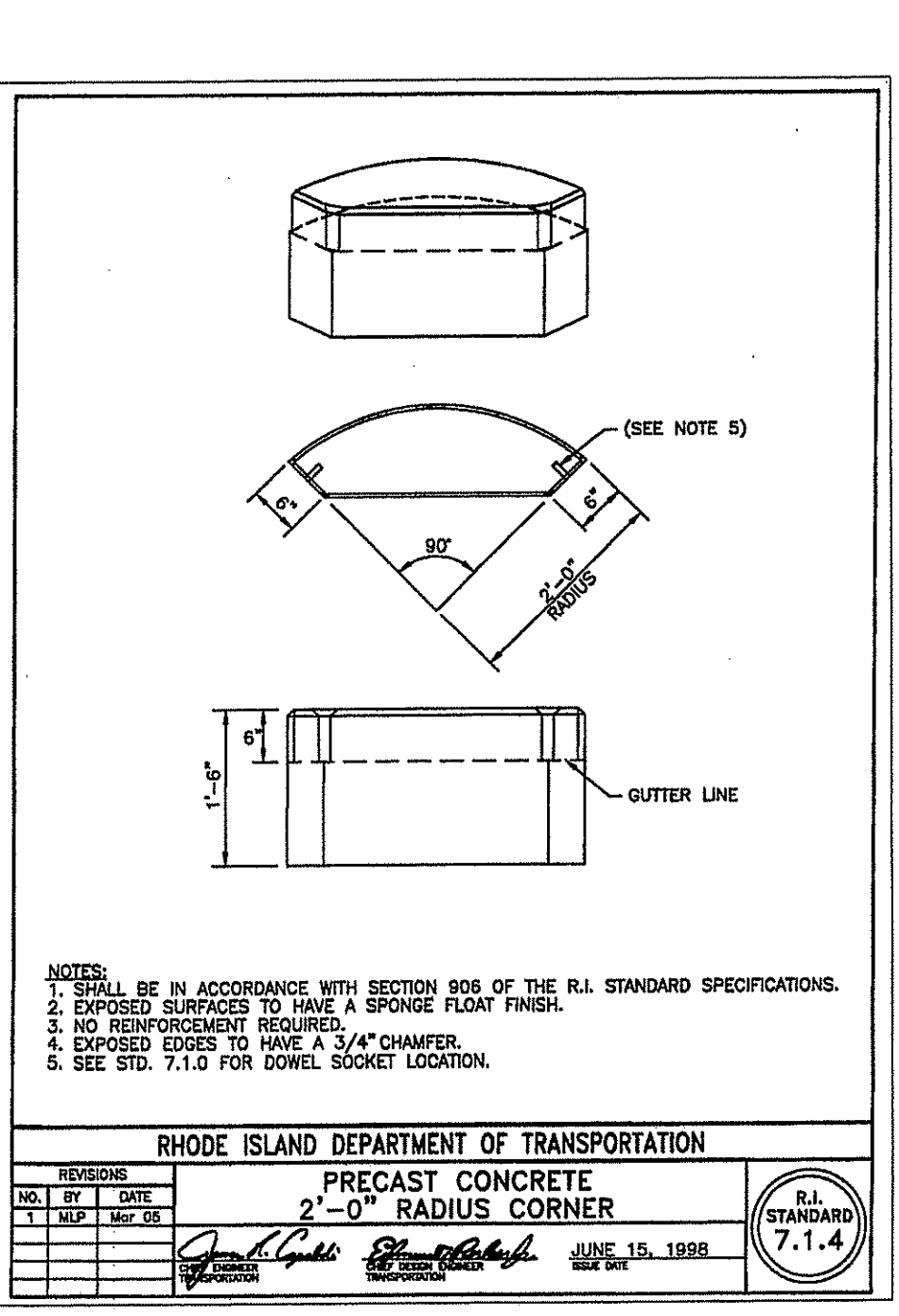
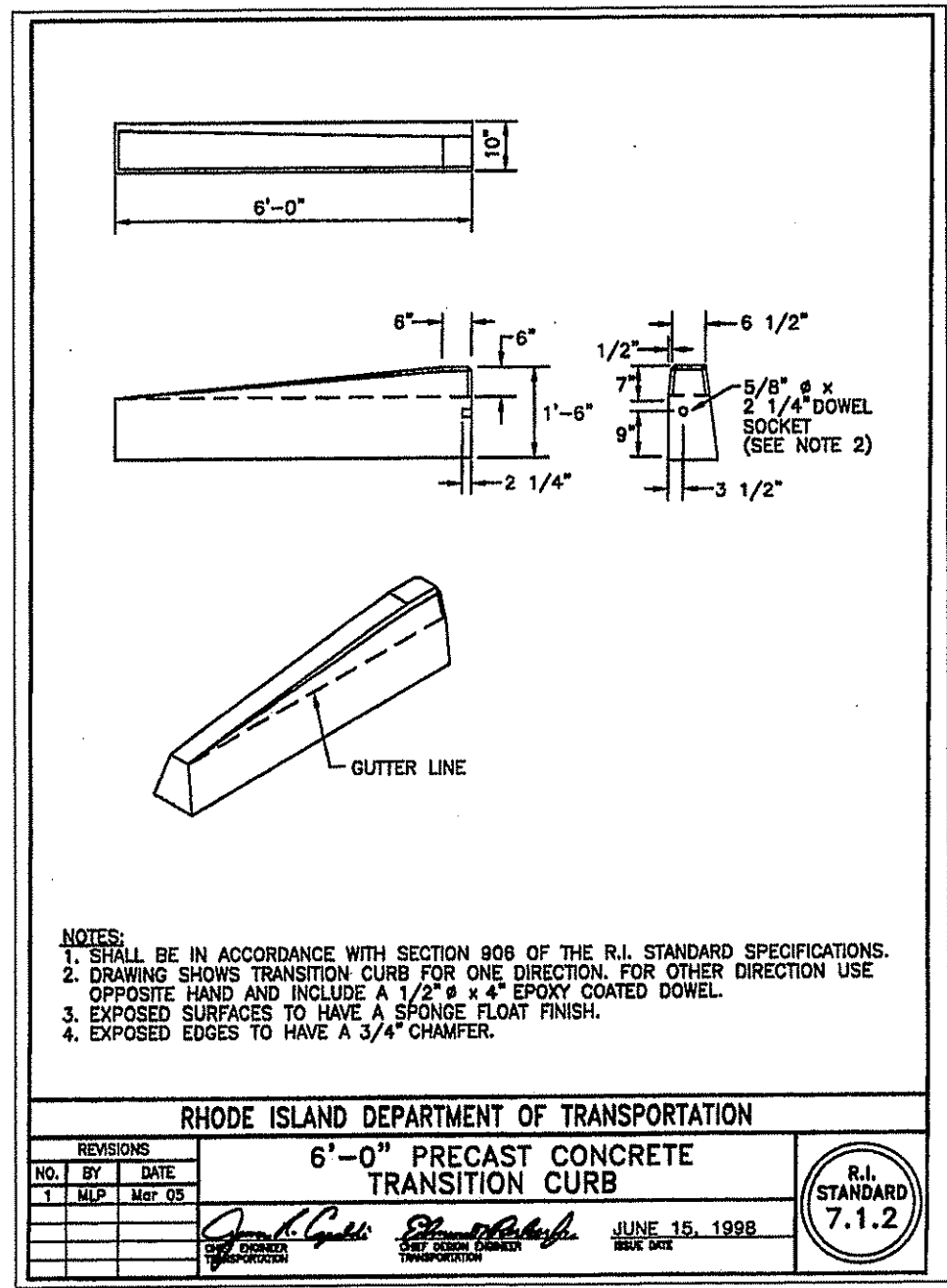
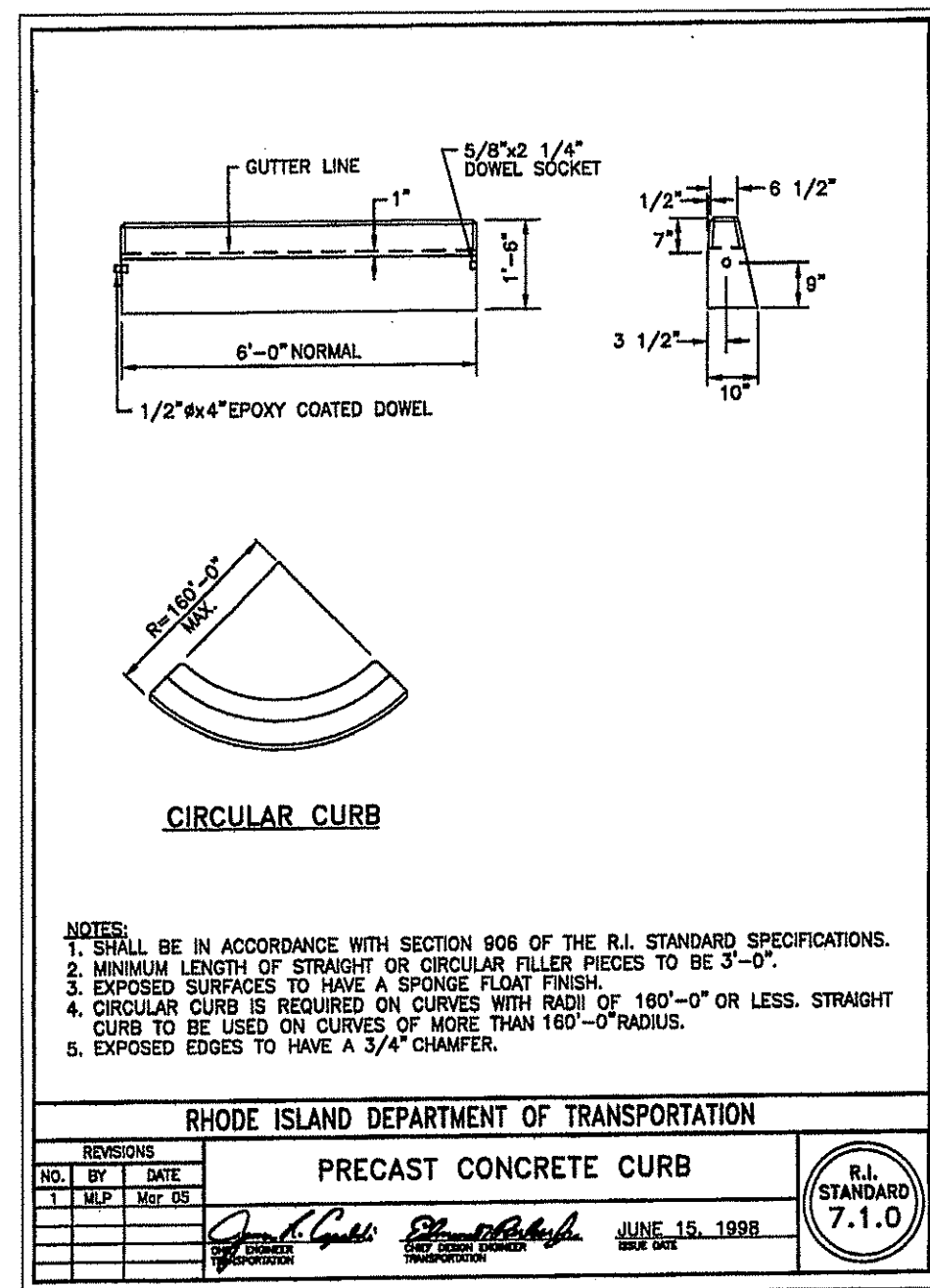
DWN. BY: LBC DWG. NO. SFM760CD2

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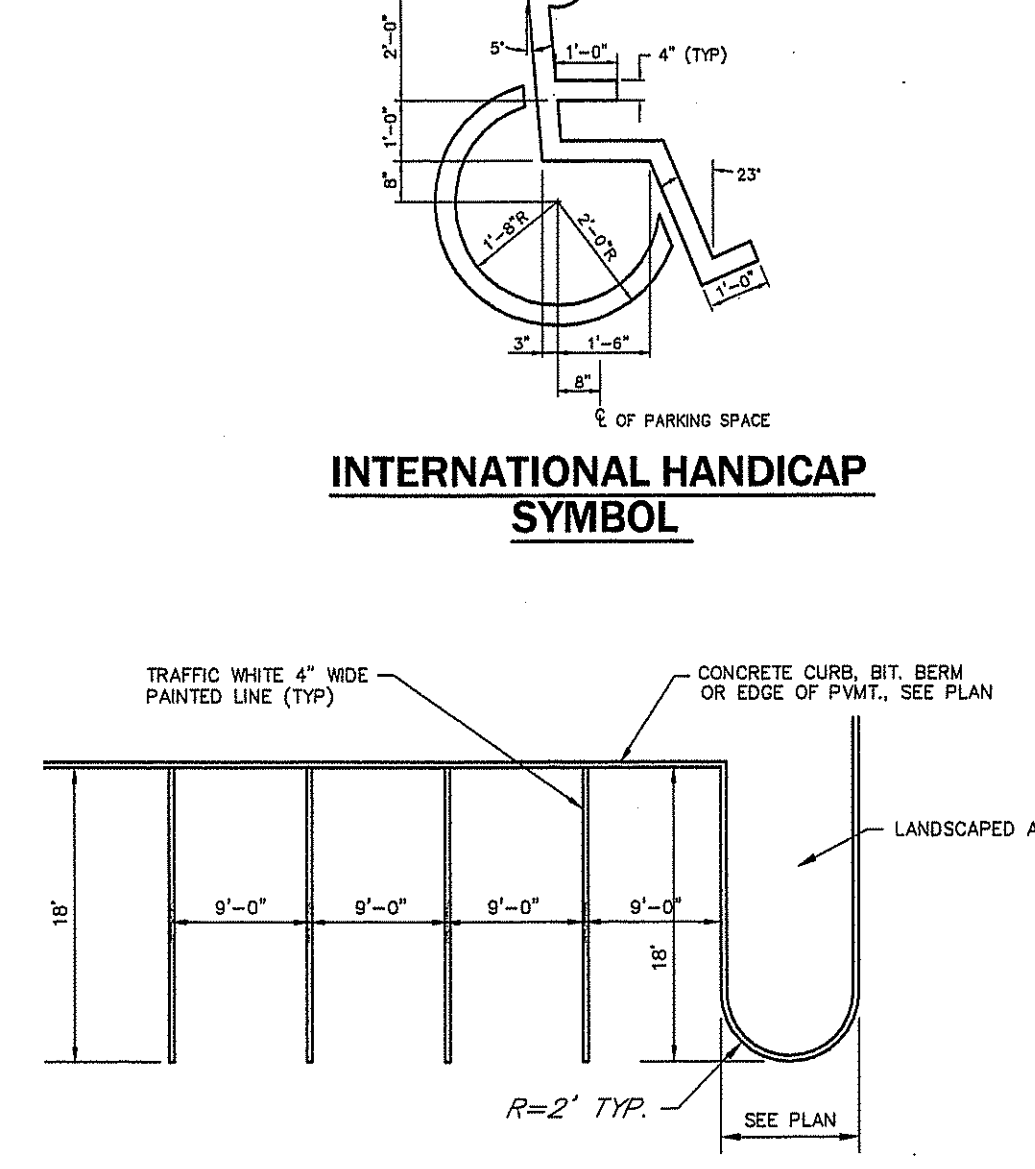
CONSTRUCTION DETAILS-2

DATE: DEC. 9, 2012 SCALE: AS NOTED SHEET 6 OF 12

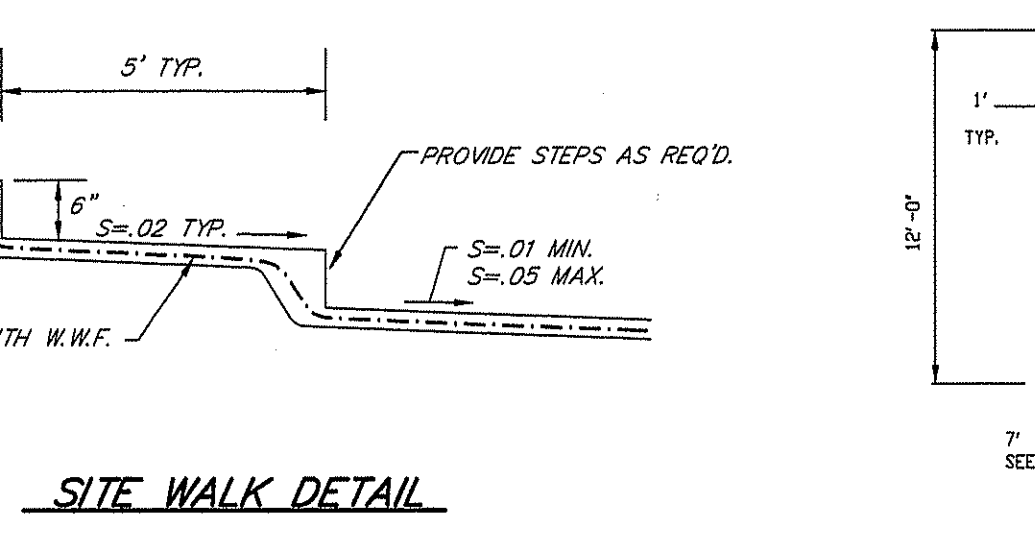


INSTALLATION

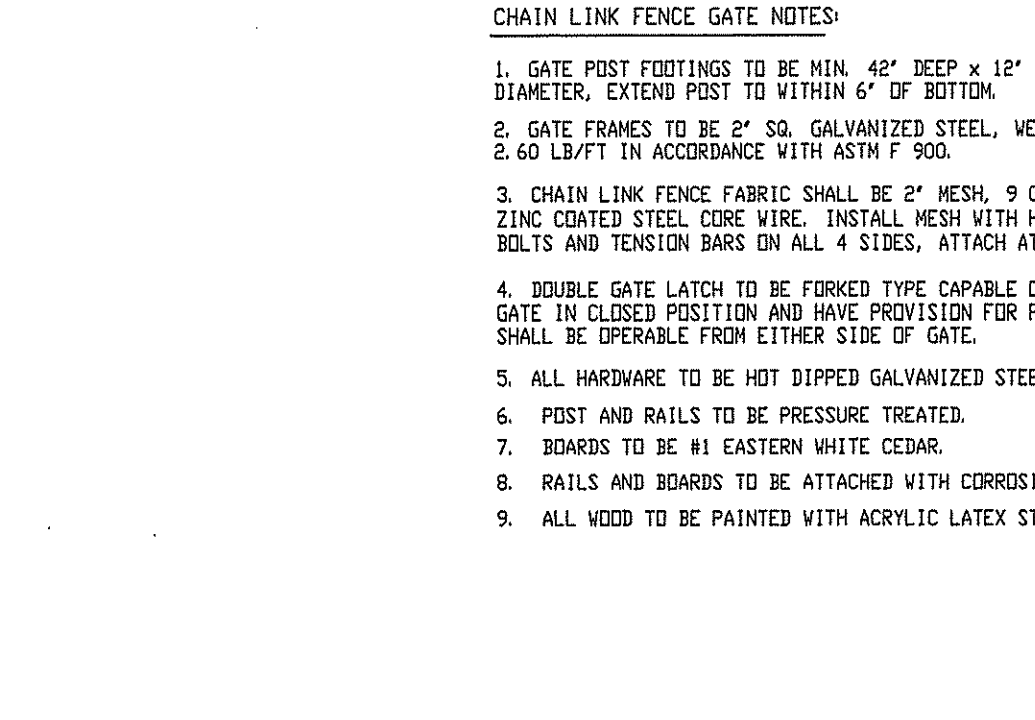
- SIGNS SHALL BE LOCATED ON THE RIGHT SIDE OF THE ROADWAY FACING APPROACHING TRAFFIC.
- SIGNS SHALL BE INSTALLED APPROXIMATELY TWO FEET OFF OF PAVEMENT EDGE OR FACE OF CURB.
- THE HEIGHT OF THE SIGN SHALL BE A MINIMUM OF SEVEN (7) FEET, MEASURED FROM THE BOTTOM OF THE SIGN TO THE GROUND.
- ALL SIGNS SHALL BE INSTALLED FACING TRAFFIC AT AN ANGLE OF BETWEEN 30 AND 45 DEGREES WITH A LINE PARALLEL TO THE FLOW OF TRAFFIC. THE SIGN LEGENDS SHALL INCLUDE SINGLE-HEADED ARROWS POINTING IN THE DIRECTION OF THE REGULATION IF THE SIGNS ARE AT THE END OF THE ZONE, OR DOUBLE-HEADED ARROWS POINTING IN BOTH DIRECTIONS IF THE SIGNS ARE AT INTERMEDIATE POINTS WITHIN A ZONE.
- POST MOUNT ON R.I. STD. 24.6.0, BUILDING MOUNT WHERE REQUIRED @ 50' O.C.



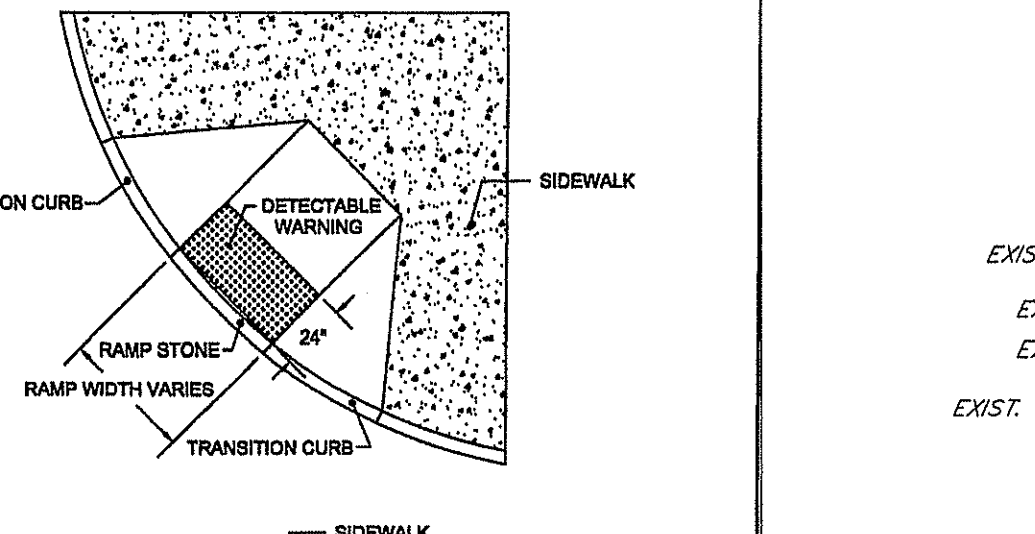
INTERNATIONAL HANDICAP SYMBOL



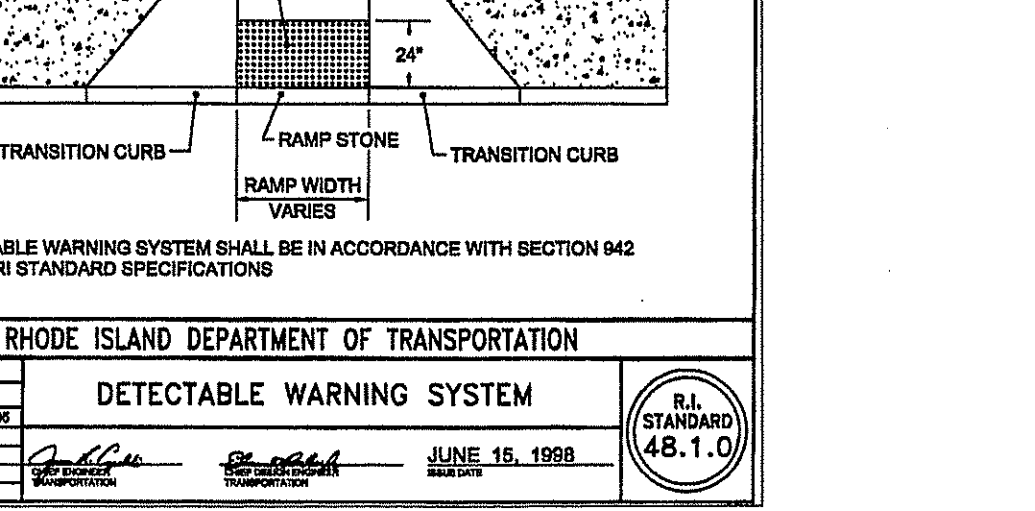
90° PARKING STALL LAYOUT



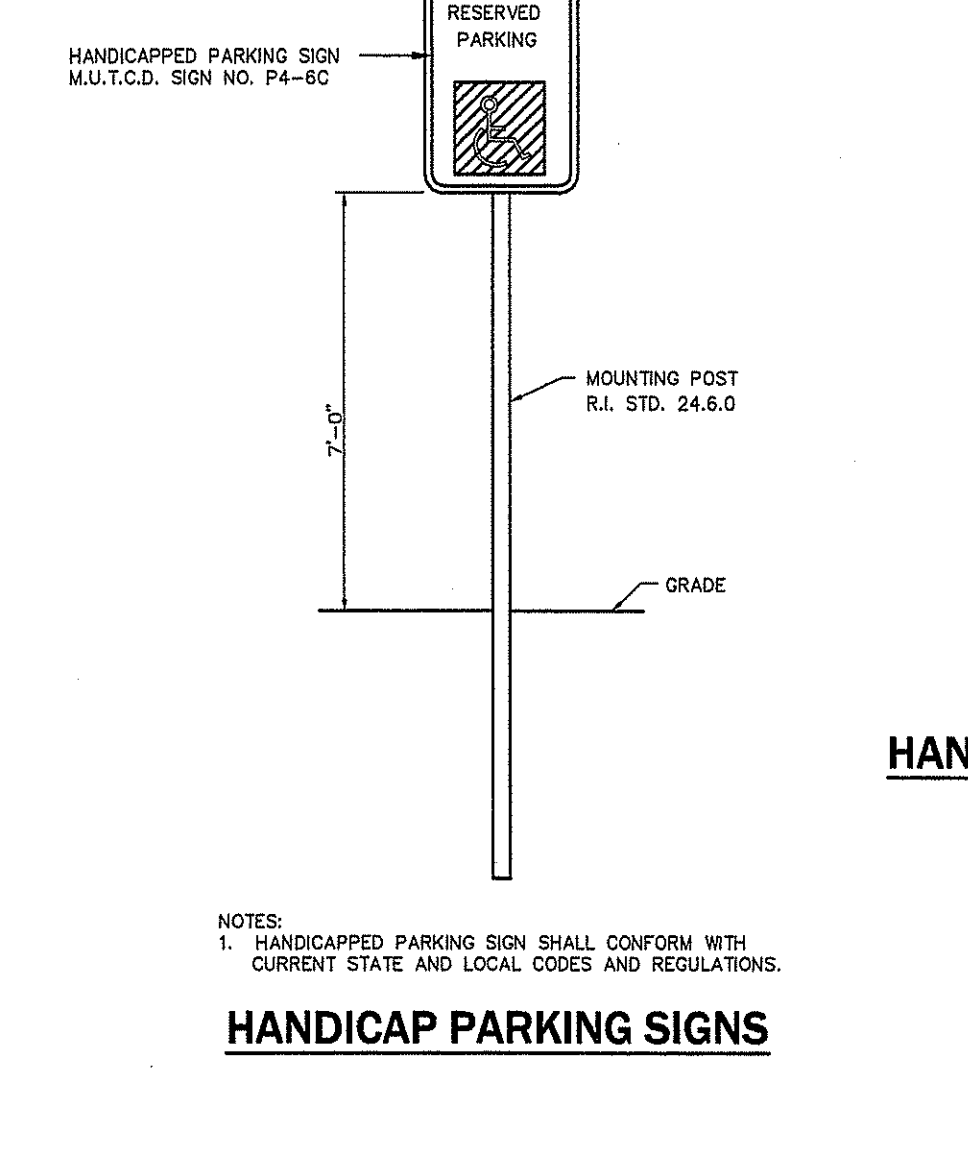
SITE WALK DETAIL
NOT TO SCALE



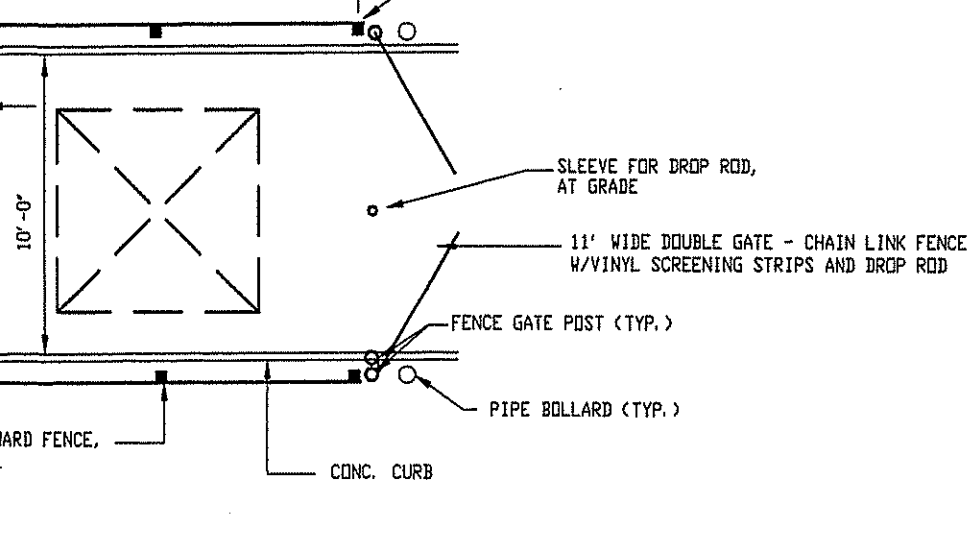
FIXED PIPE BOLLARD DETAIL
NOT TO SCALE



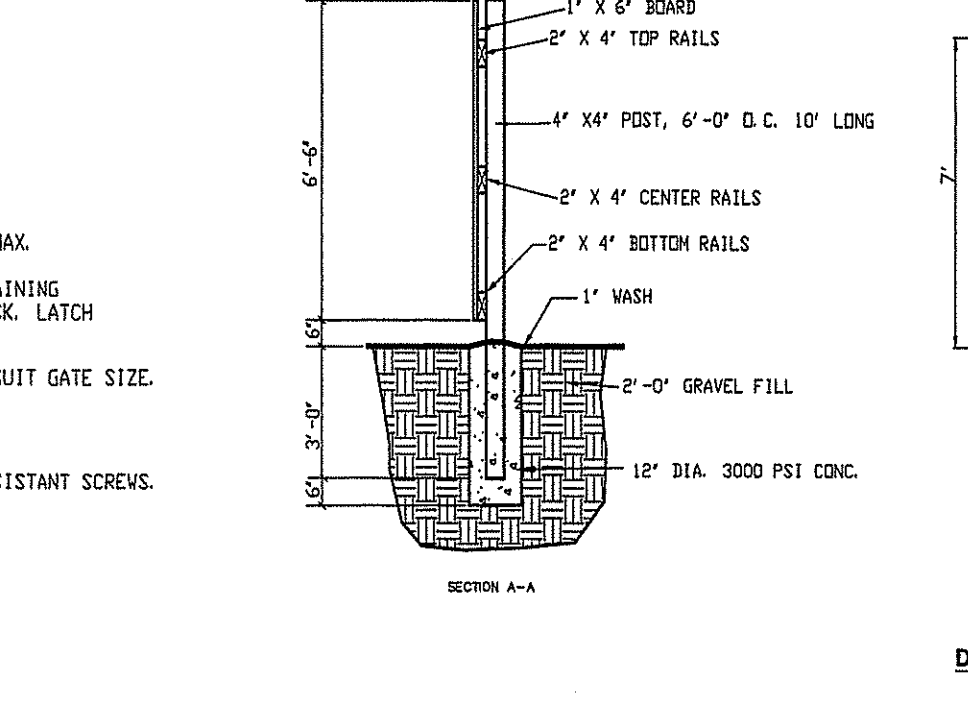
DETECTABLE WARNING SYSTEM



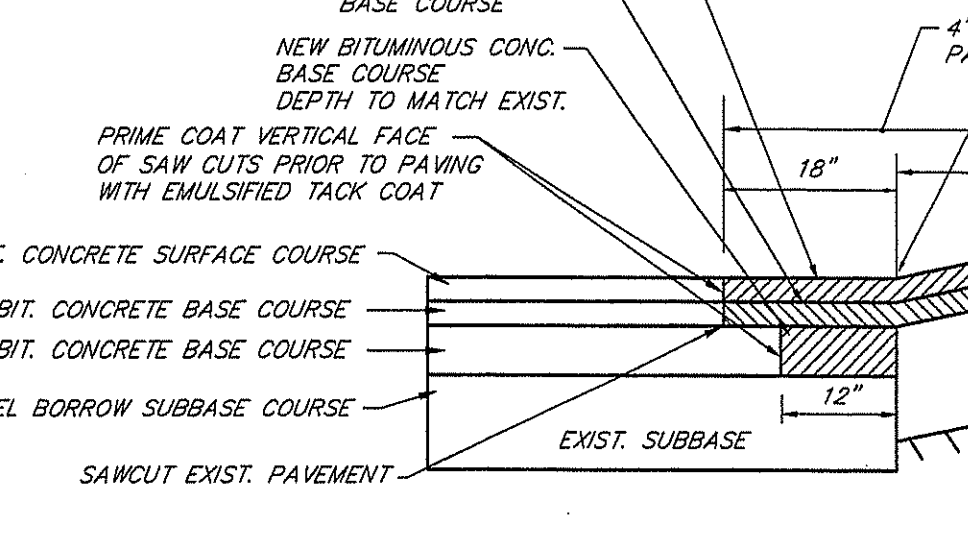
HANDICAP PARKING SIGNS



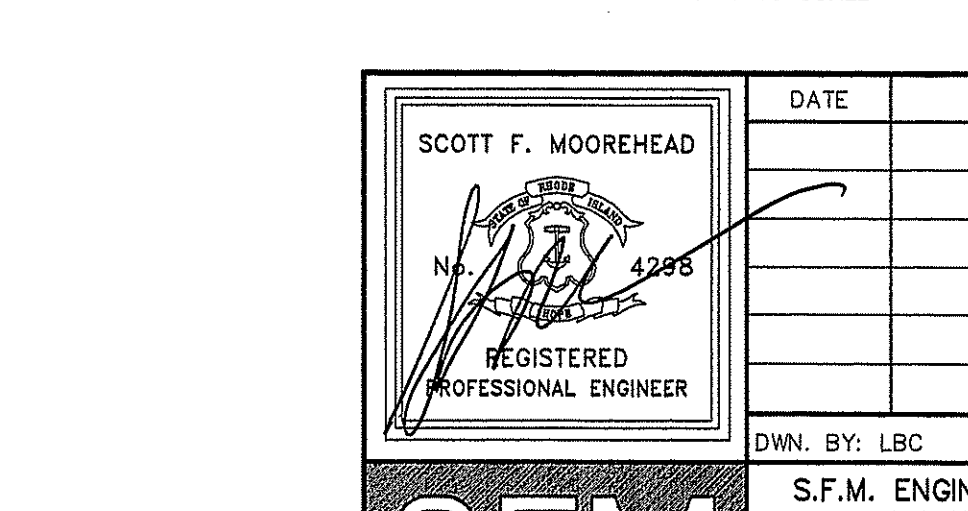
7' HIGH BOARD FENCE
SEE DETAIL



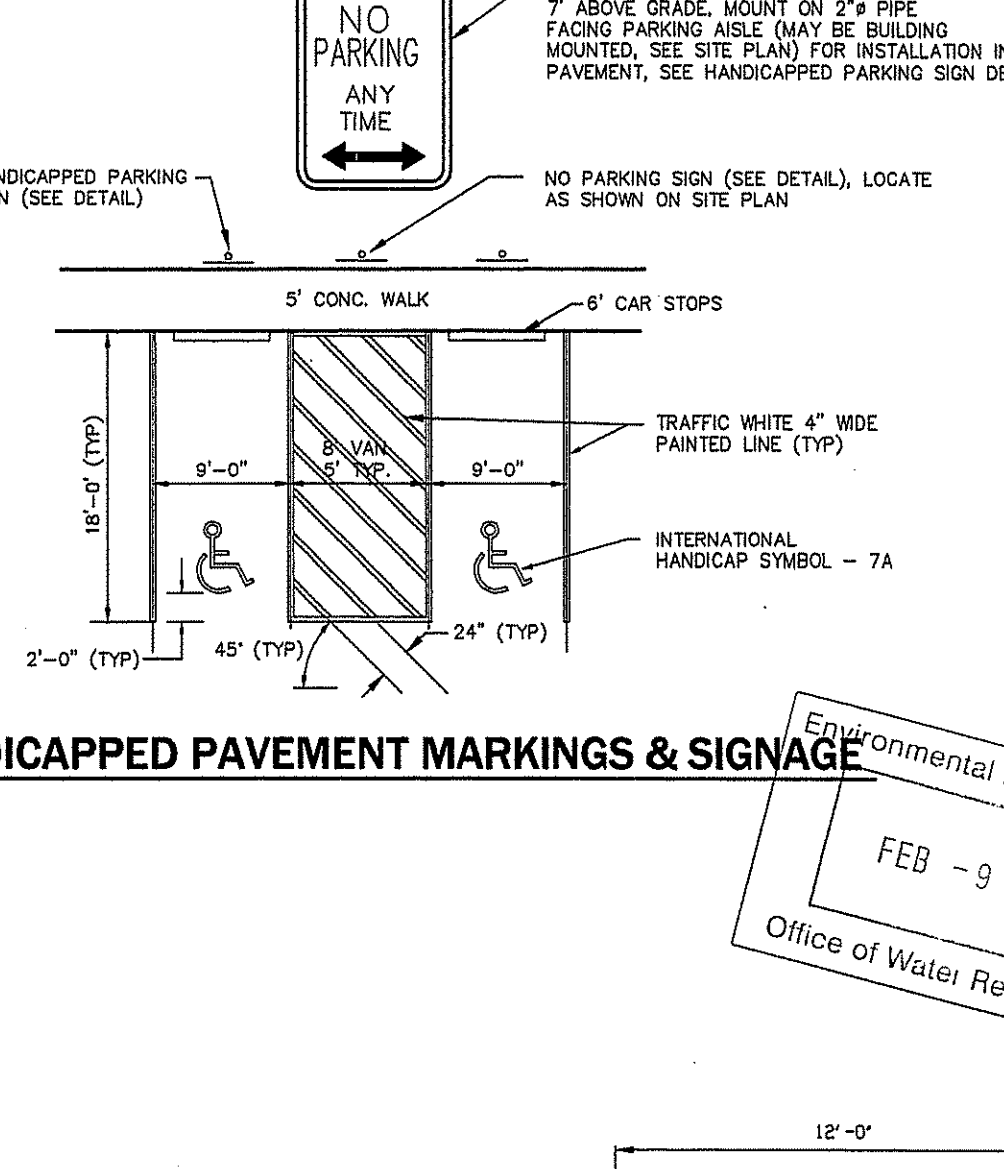
CHAIN LINK FENCE GATE NOTES



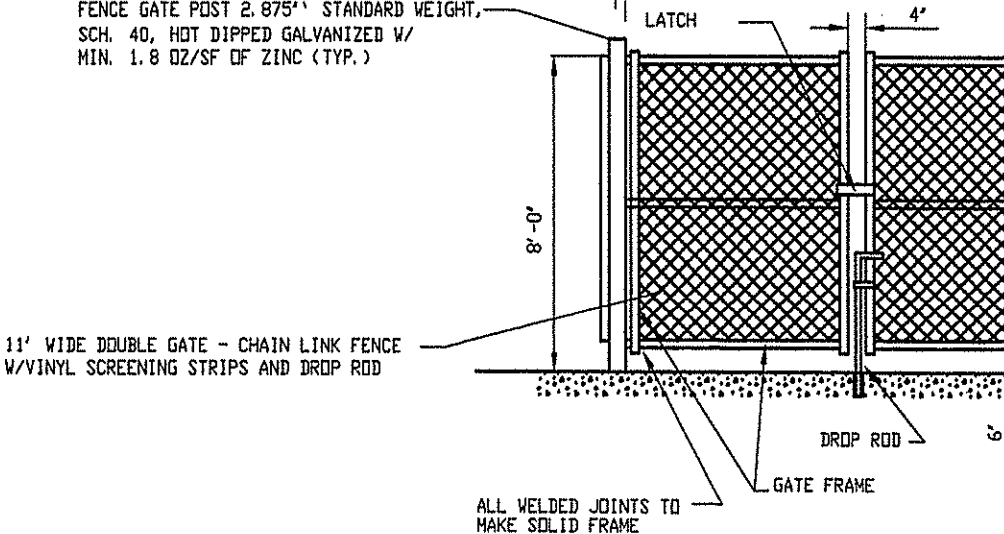
DUMPSTER ENCLOSURE



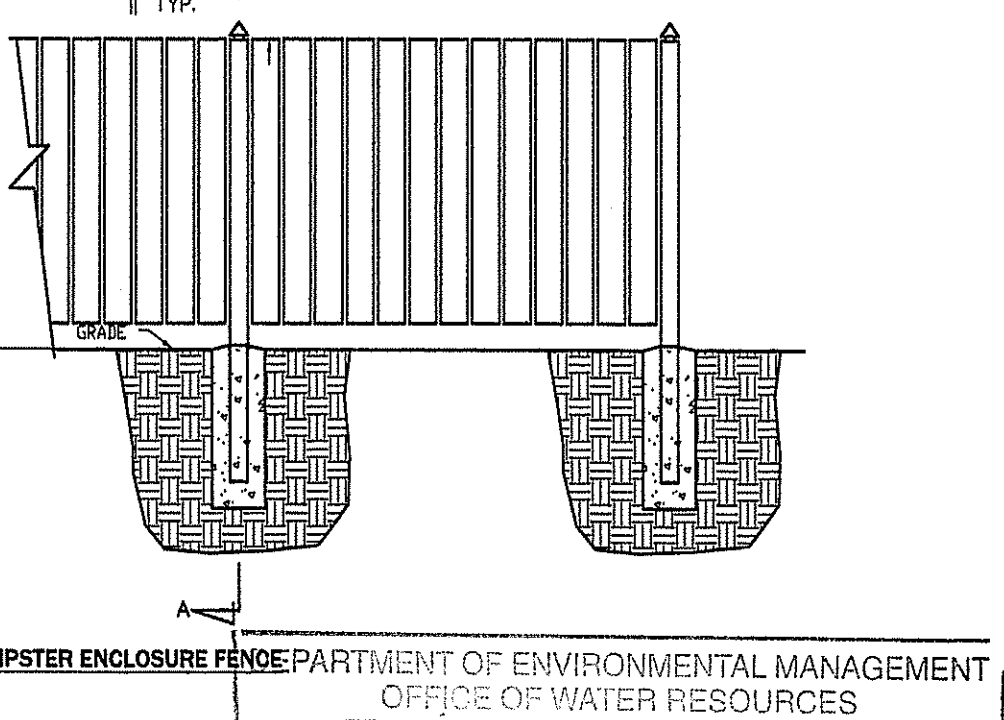
CUT & MATCH AT DRIVEWAY DETAIL
NOT TO SCALE



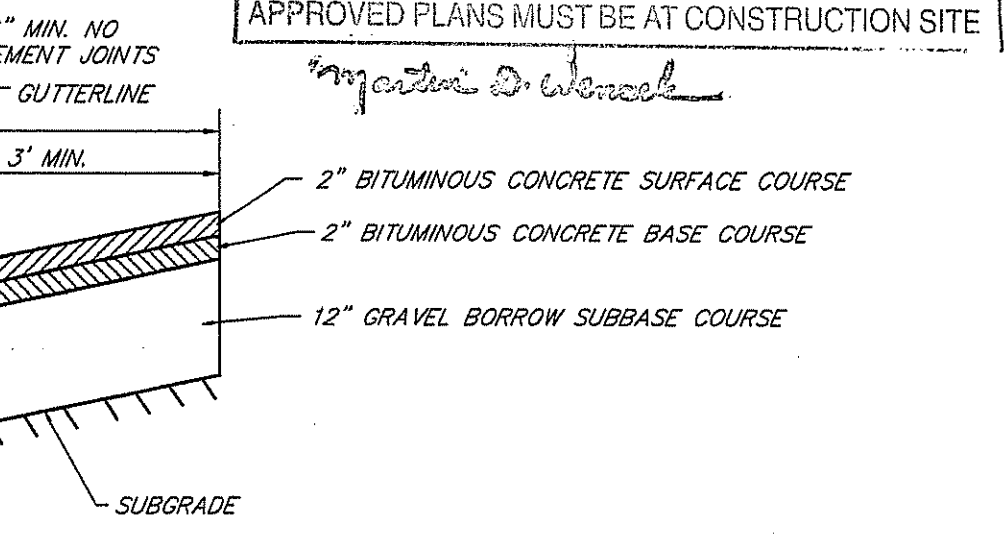
HANDICAPPED PAVEMENT MARKINGS & SIGNAGE



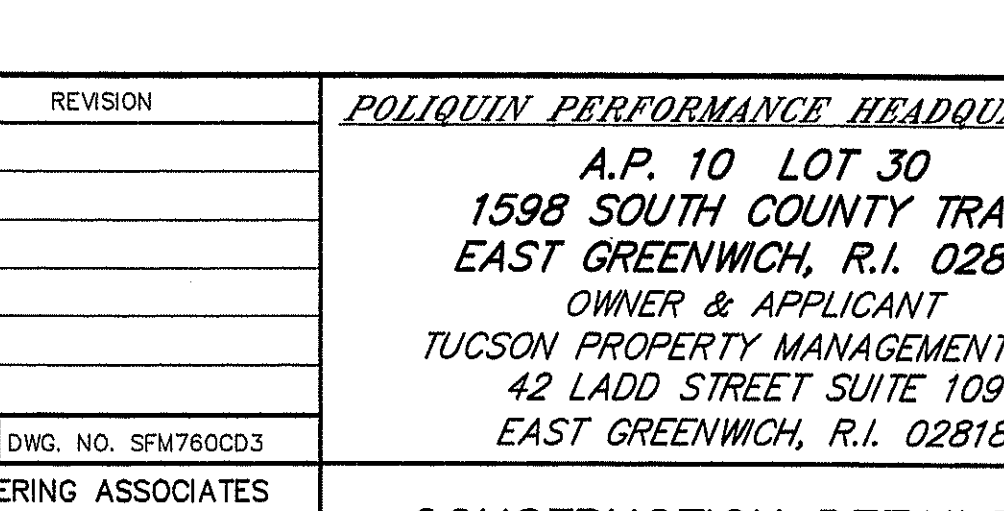
DOUBLE GATE



DUMPSTER ENCLOSURE FENCE



CUT & MATCH AT DRIVEWAY DETAIL
NOT TO SCALE



WHEELCHAIR RAMP

REVISIONS

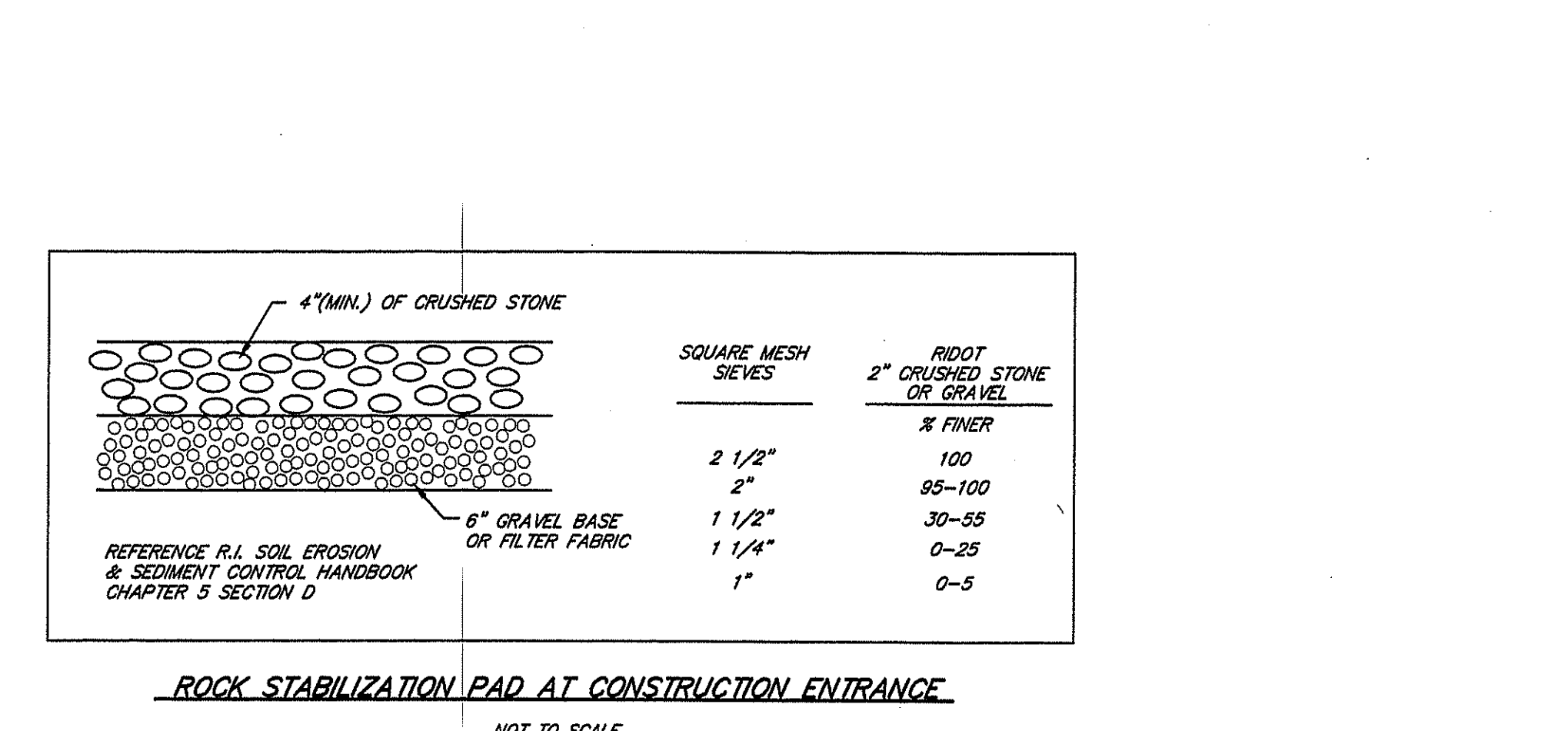
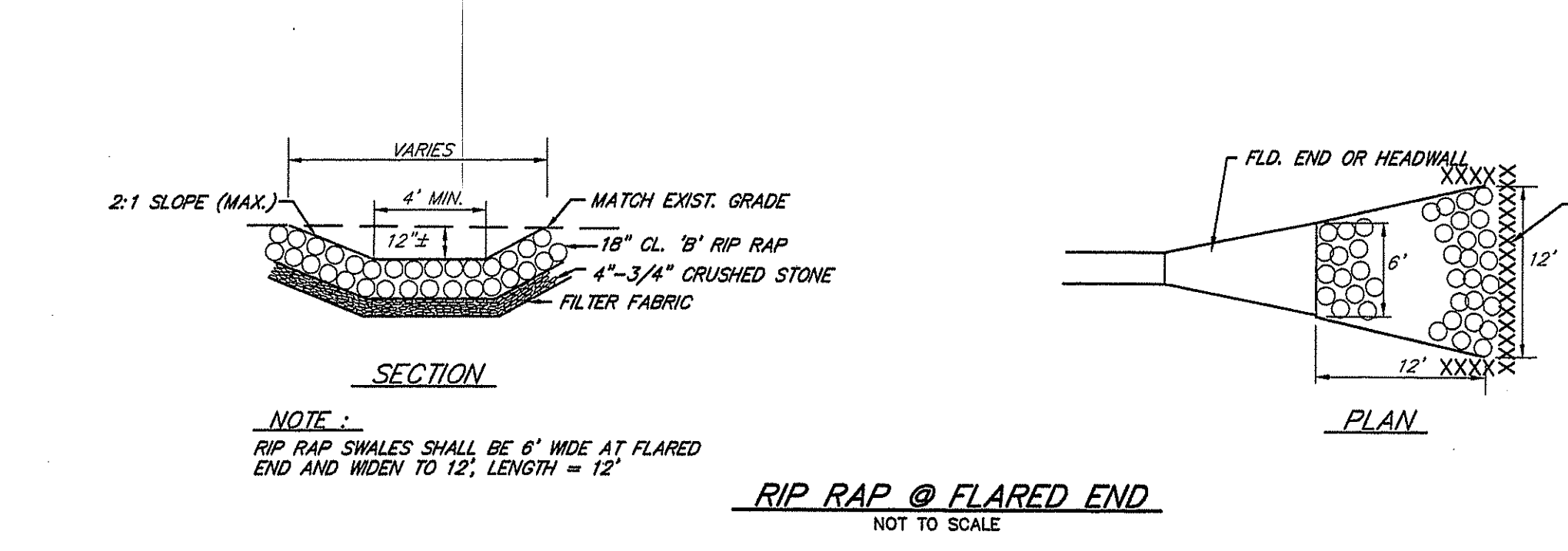
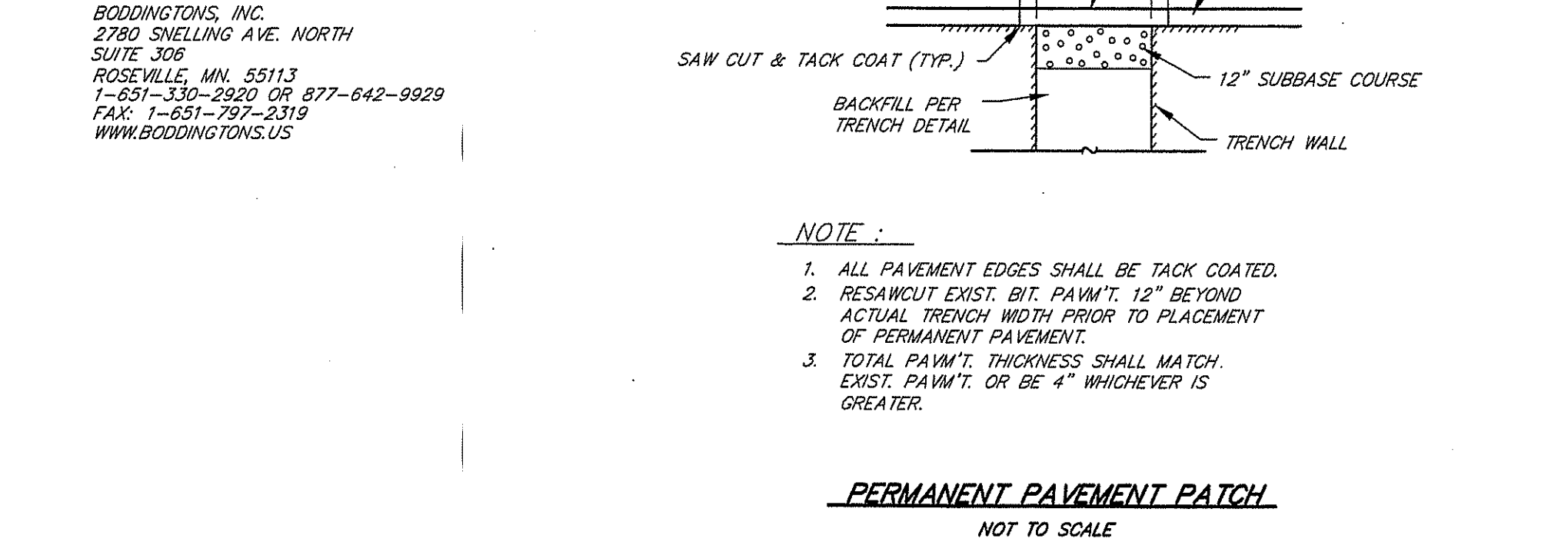
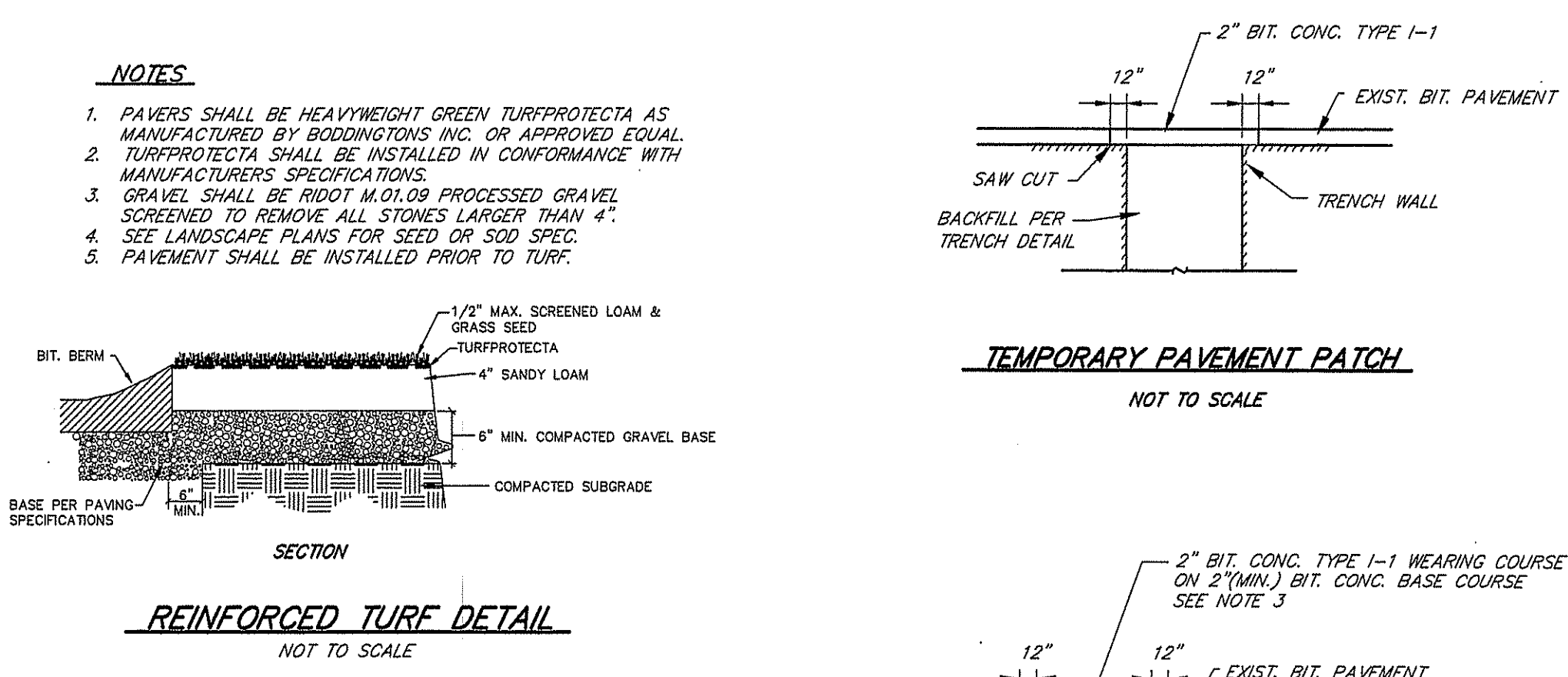
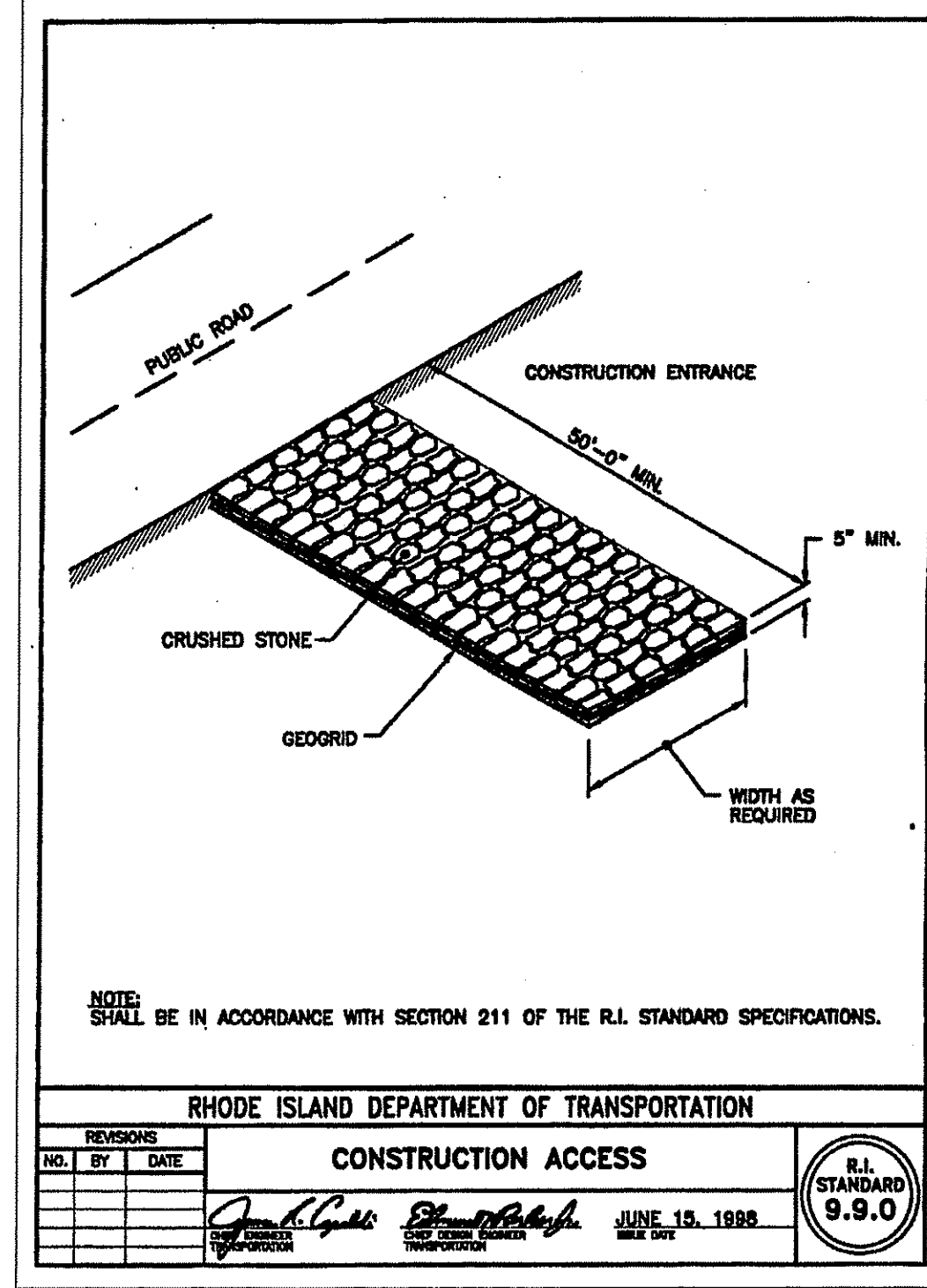
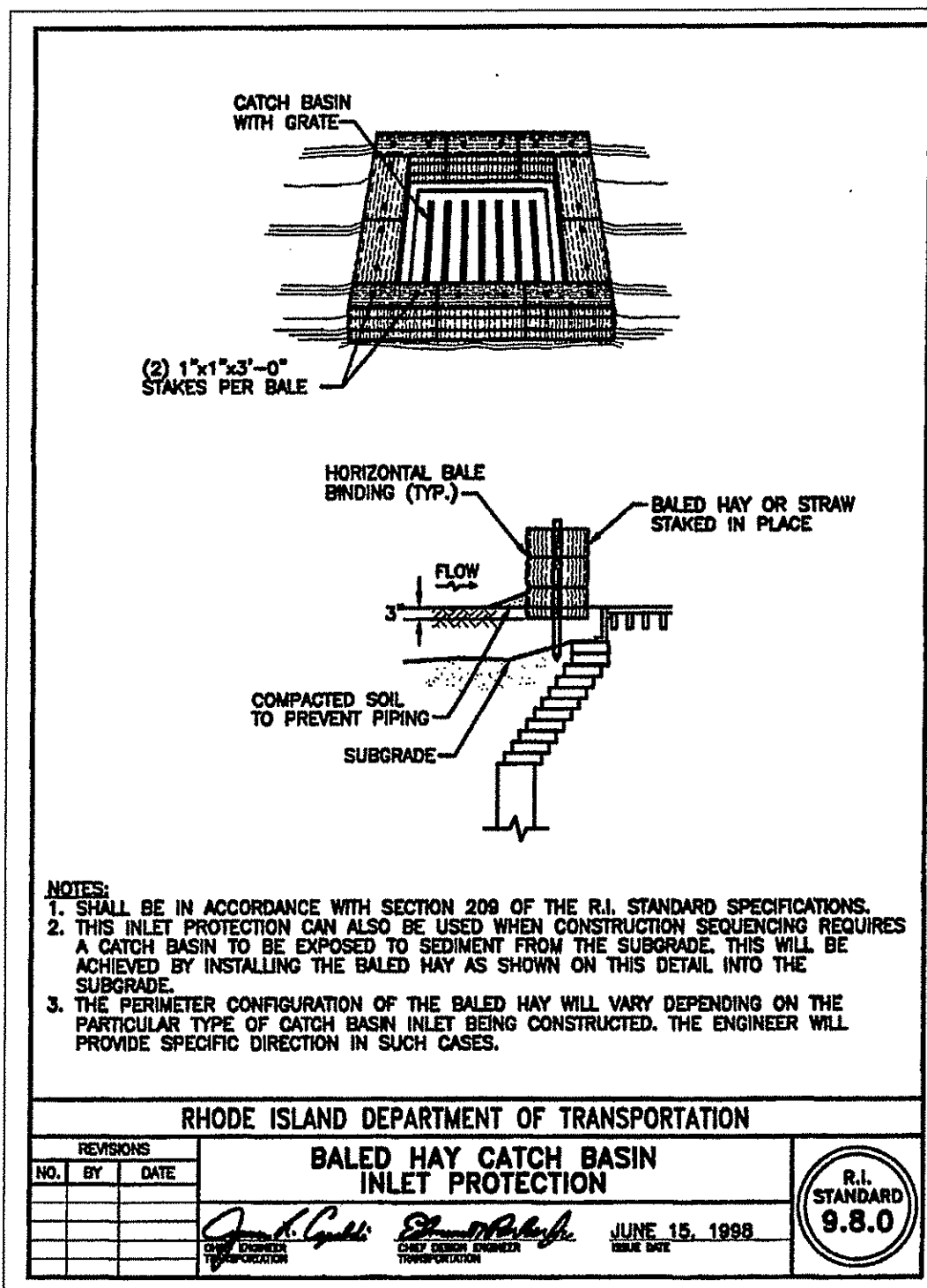
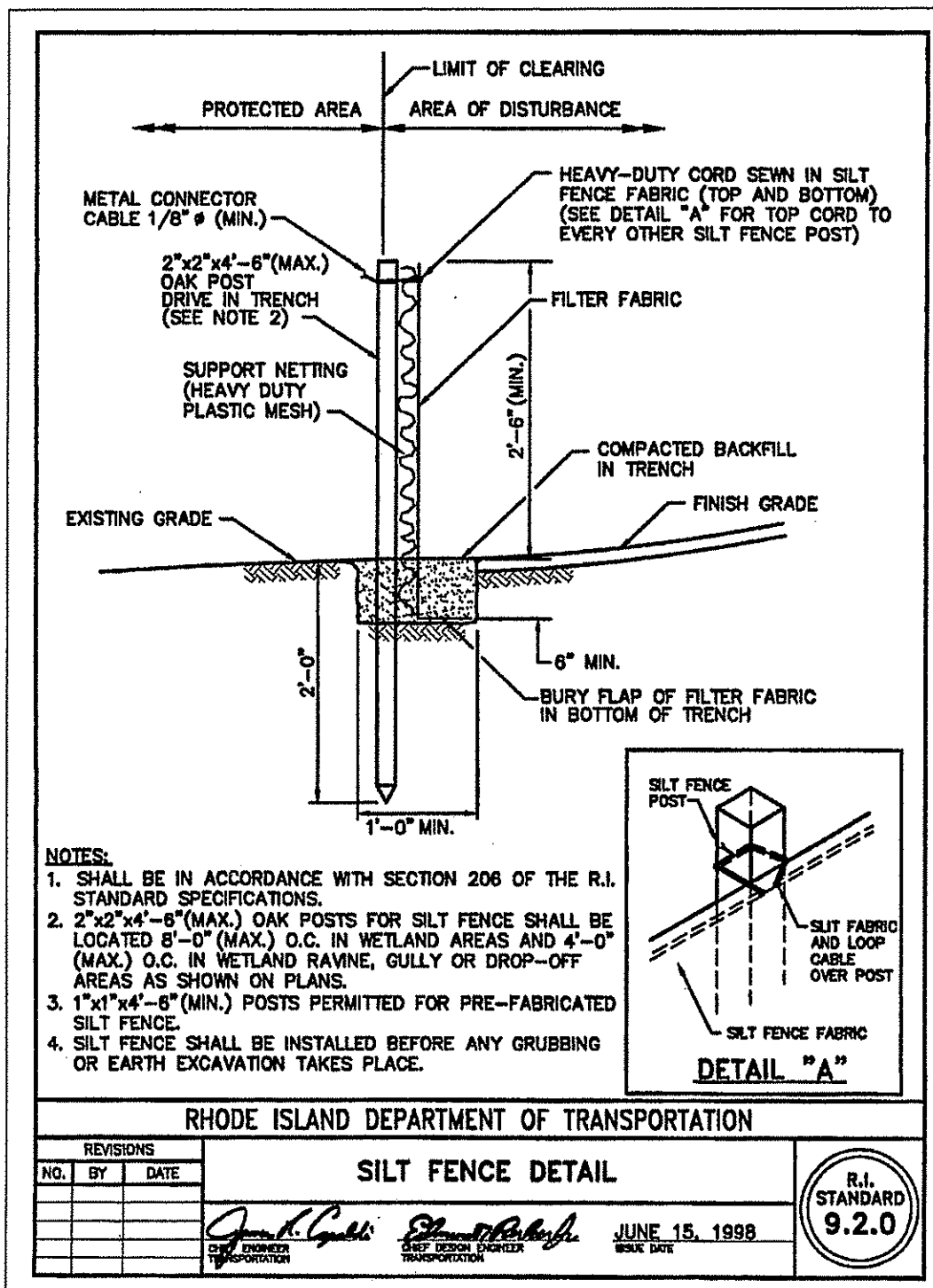
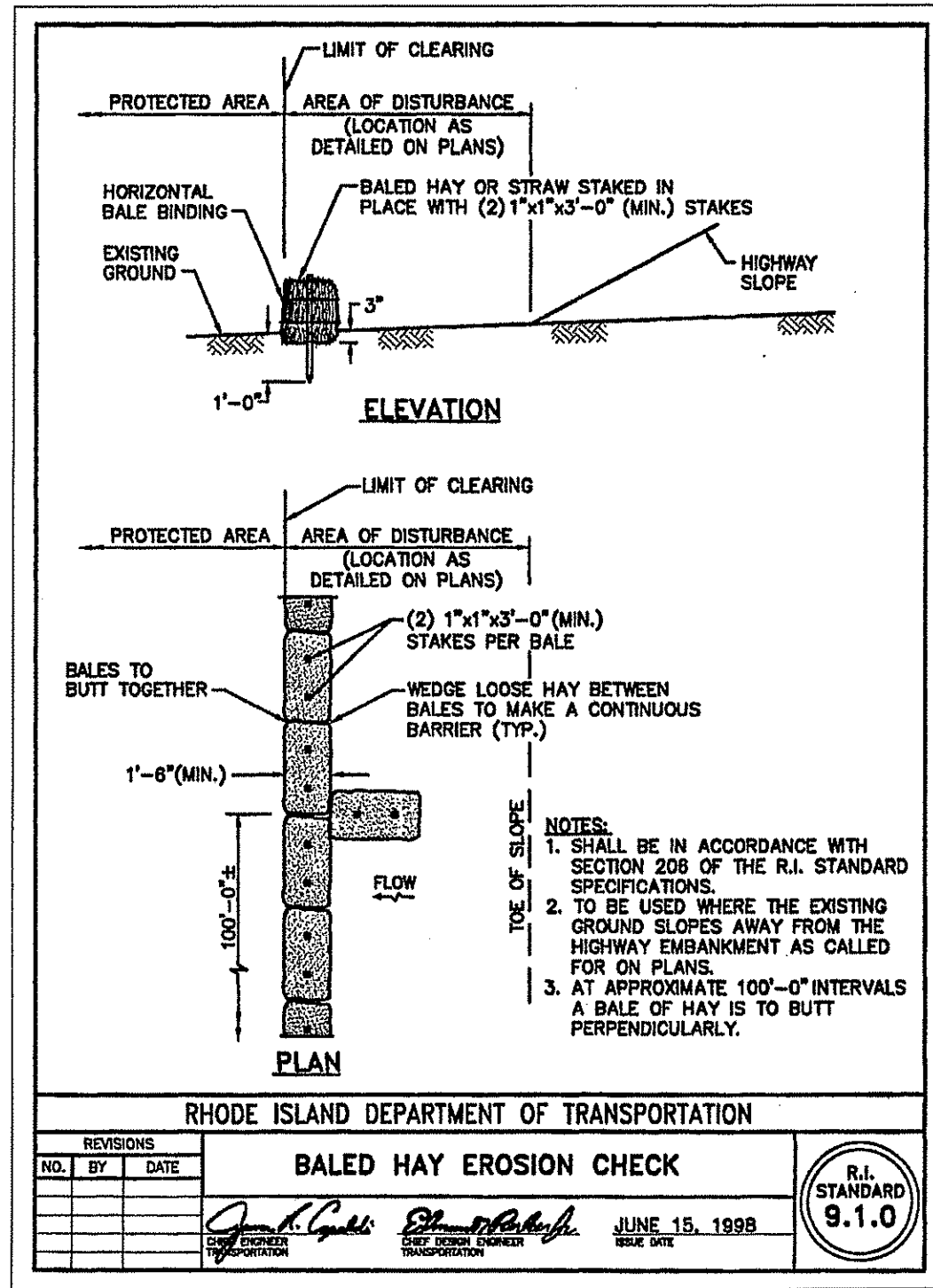
SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER

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CONSTRUCTION DETAILS-3

DATE: DEC. 9, 2012 SCALE: AS NOTED SHEET 7 OF 12



- GENERAL NOTES**
- ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 12-2010) WITH ALL CORRECTIONS AND ADDENDA AND THE 12-1-2010 R.I. STANDARD DETAILS WITH ALL CORRECTIONS AND ADDENDA.
 - 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 :
 - MOWED AREA (ALL FLATS OR SLOPES LESS THAN 3:1)

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	70	APRIL 1-JUNE 15
KENTUCKY BLUEGRASS	15	AUG-15-OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	10	
TOTAL	200 LBS/AC	
 - UNMOWED AREA OR INFREQUENTLY MOWED (FLAT OR SLOPES GREATER THAN 3:1)

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	70	APRIL 1-JUNE 15
COLONIAL BENTGRASS	10	AUG. 15-OCT. 15
PERENNIAL RYEGRASS	15	
BIRDSEED TREFOIL	5	
TOTAL	100 LBS/AC	
 - CONSERVATION SEEDING AREAS

MIXTURE	% BY WT.	SEEDING DATES
TALL FESCUE	32	APRIL 1-JUNE 15
RED FESCUE	24	AUG. 15-OCT. 15
PERENNIAL RYEGRASS	24	
WILDFLOWER MIX	15	
RED CANARY GRASS	7	
REDTOP	4	
TOTAL	200 LBS/AC	

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 SUBJECT 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.

CATCH BASIN SEDIMENTATION BASIN

- AT NO TIME DURING CONSTRUCTION SHALL THE SUBGRADE OF THE NEW PAVEMENT BE SUCH THAT SURFACE RUNOFF WILL BE PERMITTED TO DIRECTLY ENTER ANY DRAINAGE STRUCTURE. A TEMPORARILY DEPRESSED AREA AROUND THE STRUCTURE SHALL BE INCORPORATED AS A SEDIMENTATION TRAP. THE MOUTH OF THE TRAP SHALL BE LINED WITH HAYBALES AROUND THE COMPLETE PERIMETER, SIMILAR TO R.I. STD. DETAIL 9.8.0. DURING ALL PRELIMINARY STAGES THE TOP OF THE STRUCTURE SHALL ALWAYS BE HIGHER THAN THE SUBGRADE.
- HAYBALE EROSION CHECK SHALL BE MAINTAINED AROUND ALL CATCH BASINS UNTIL ALL UPGRADIENT DISTURBED AREAS ARE STABILIZED BY PAVEMENT OR VEGETATION.

SEEDING DATES

SPECIES	LBS./1,000 S.F.	LBS./Ac.	SEEDING DATES
ANNUAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
PERENNIAL RYEGRASS	1.0 - 1.5	40 - 60	3/1 - 6/1
SUDAN GRASS	0.7 - 1.0	30 - 40	5/15 - 8/15
MILLET	0.7 - 1.0	30 - 40	5/15 - 6/15
WINTER RYE	3.0	120	4/15 - 6/15

- 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 RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB 16 2012 FILE # 07-0237
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Matthew D. Wozniak

SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
4298

DATE: _____ REVISION: _____

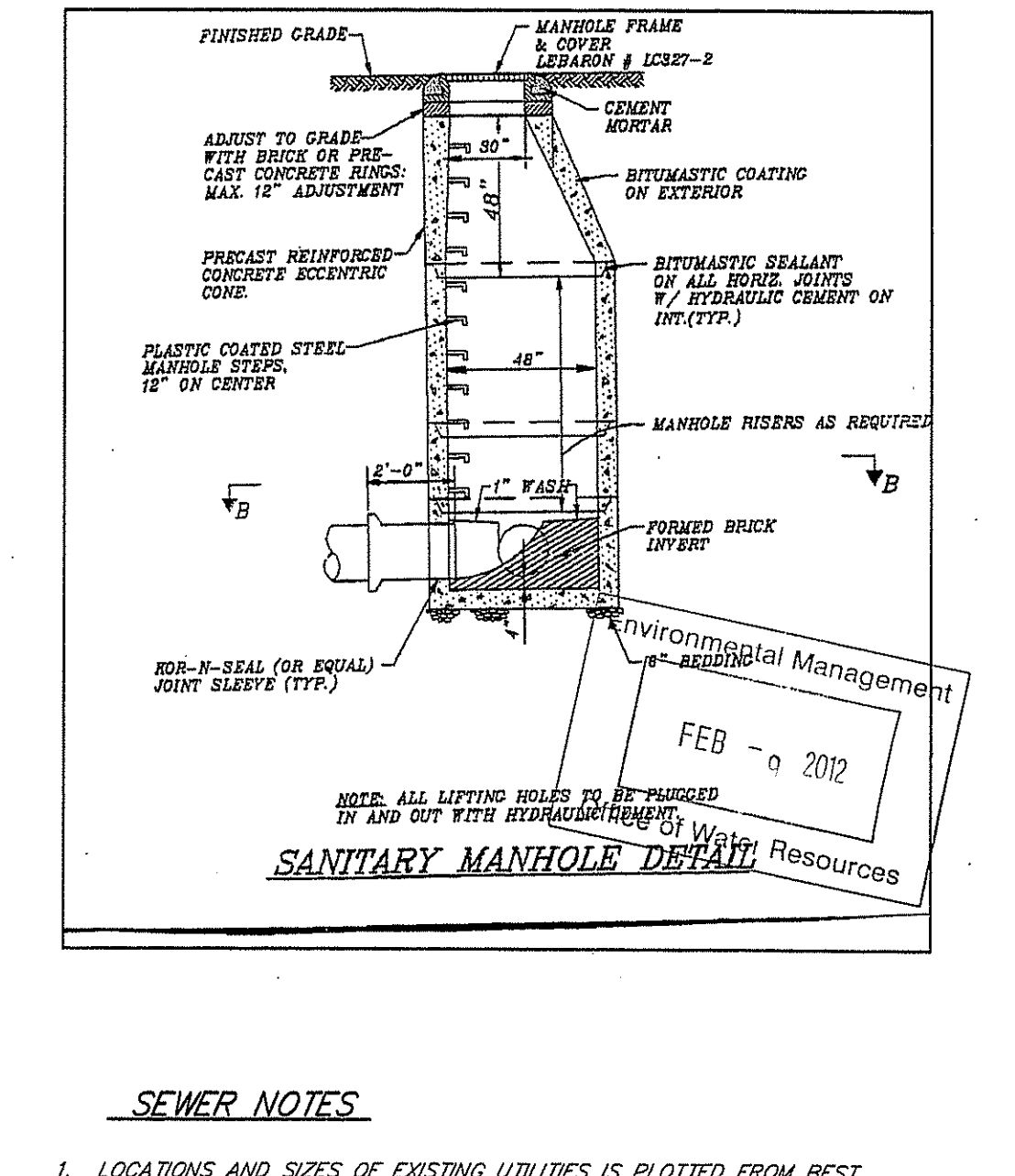
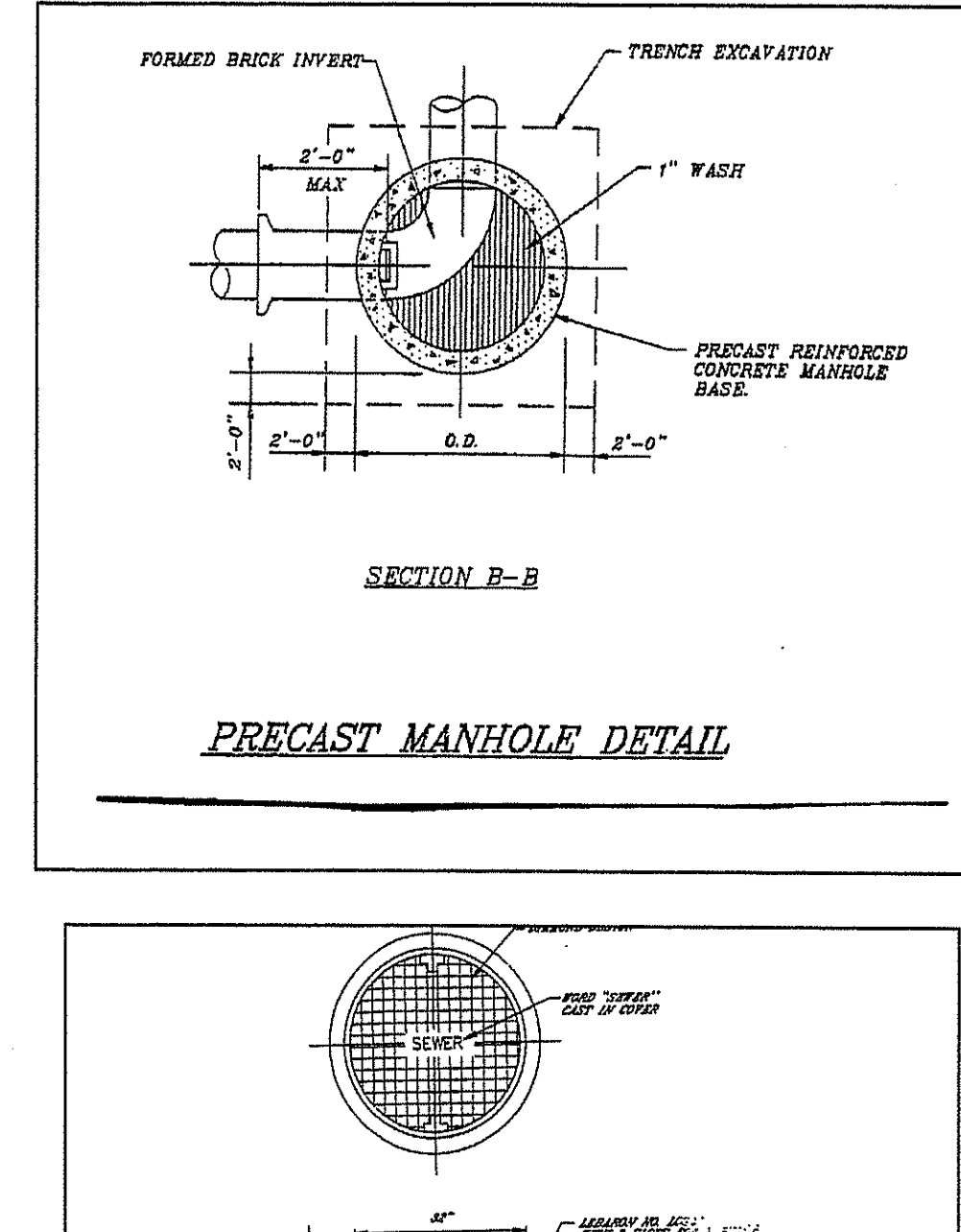
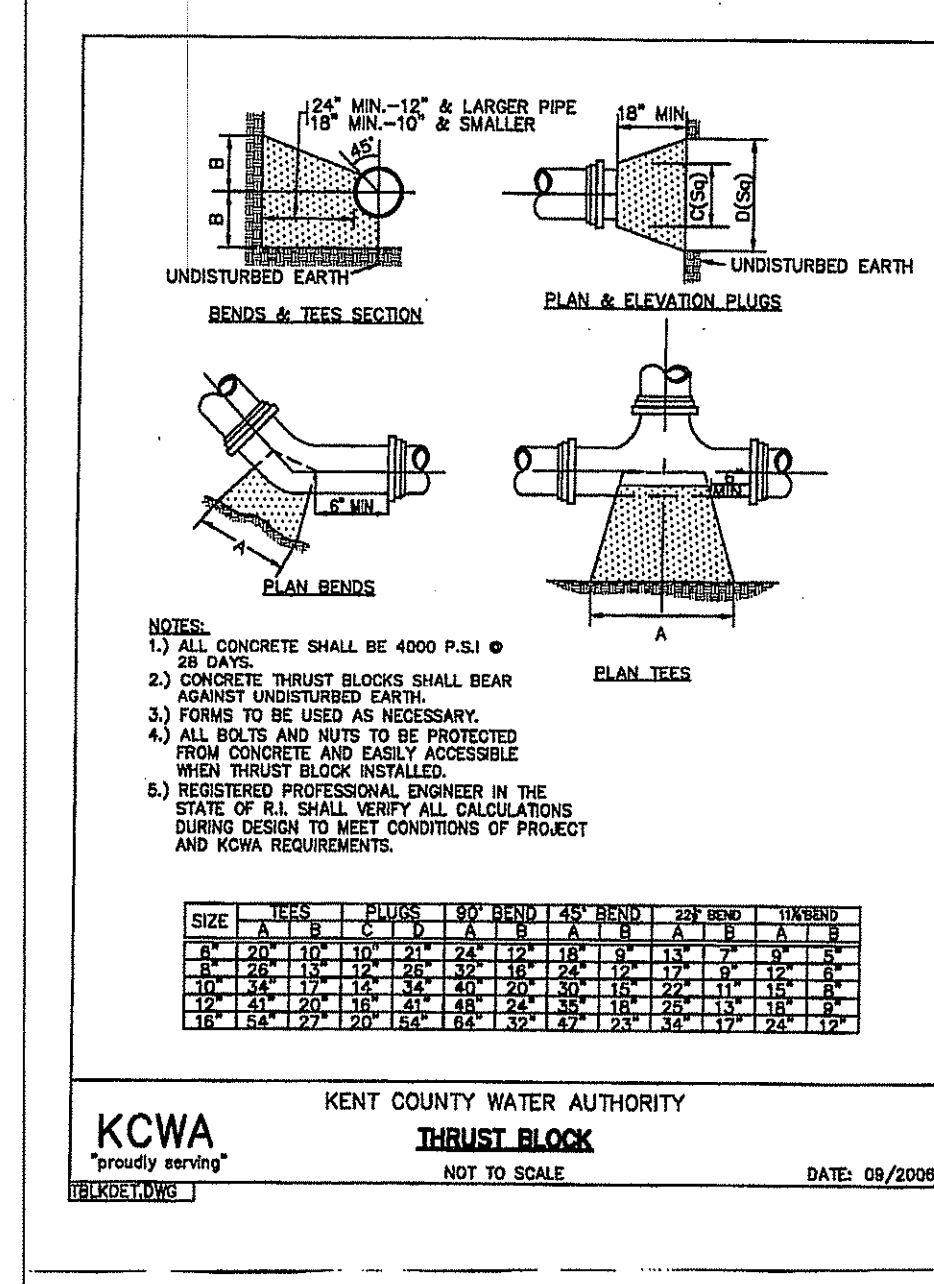
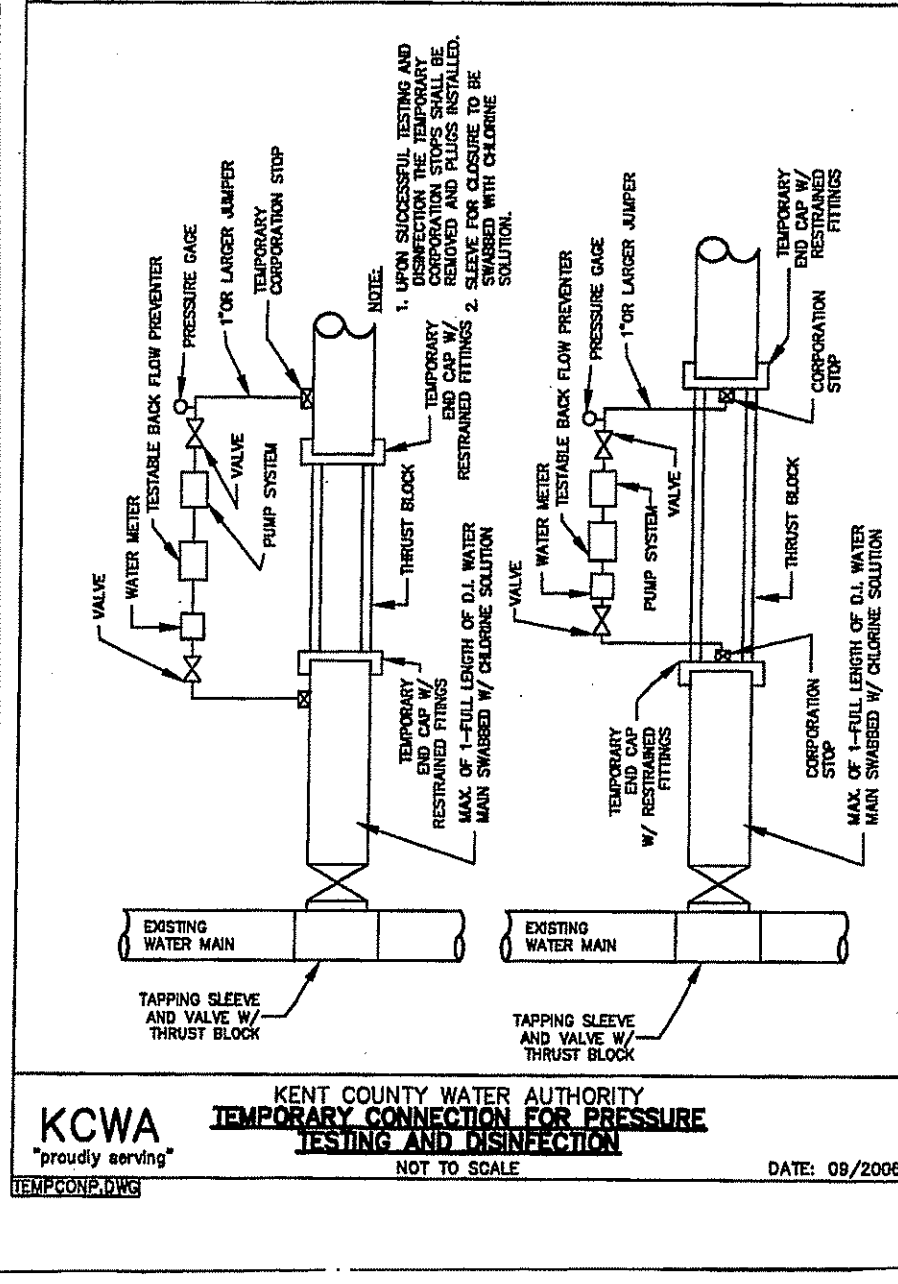
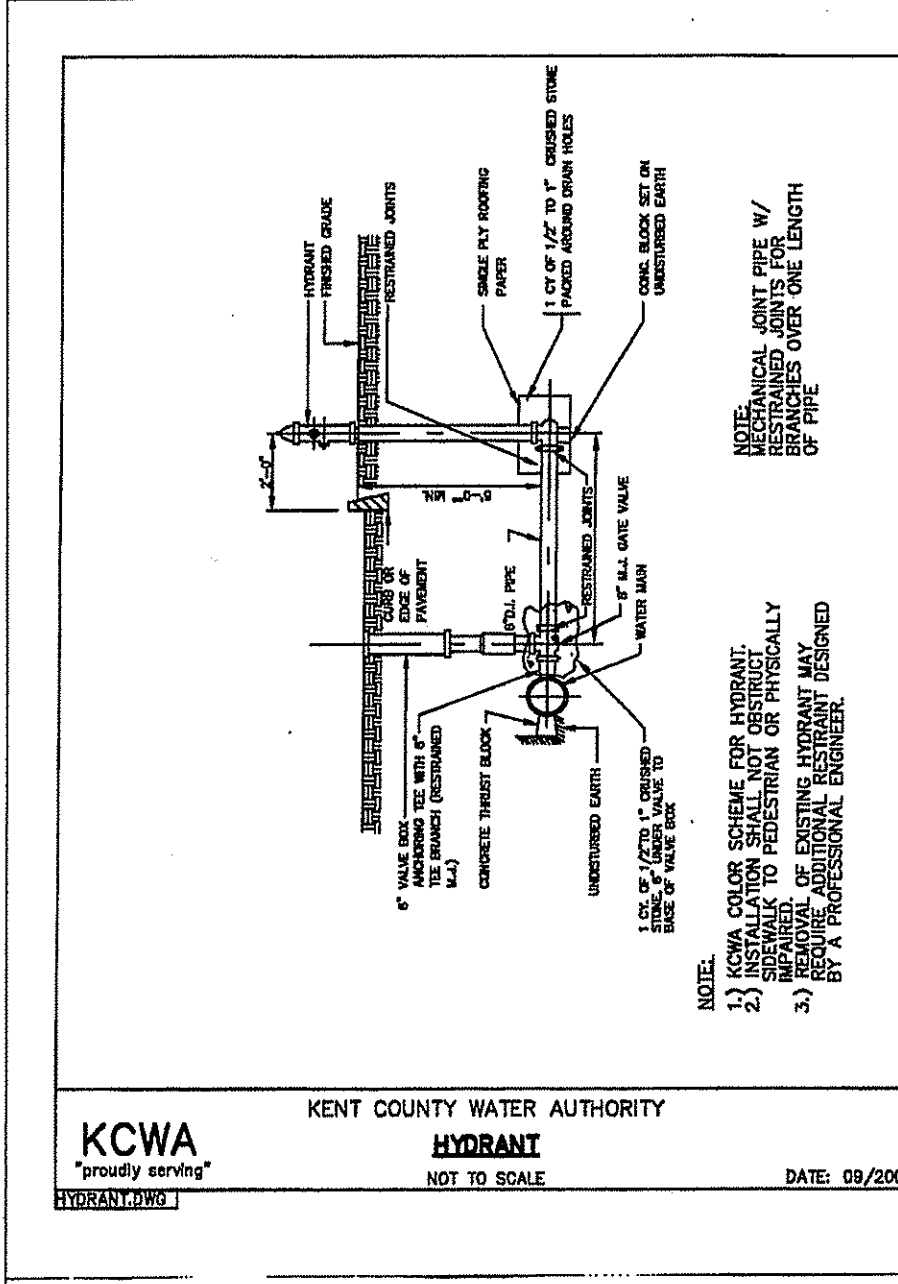
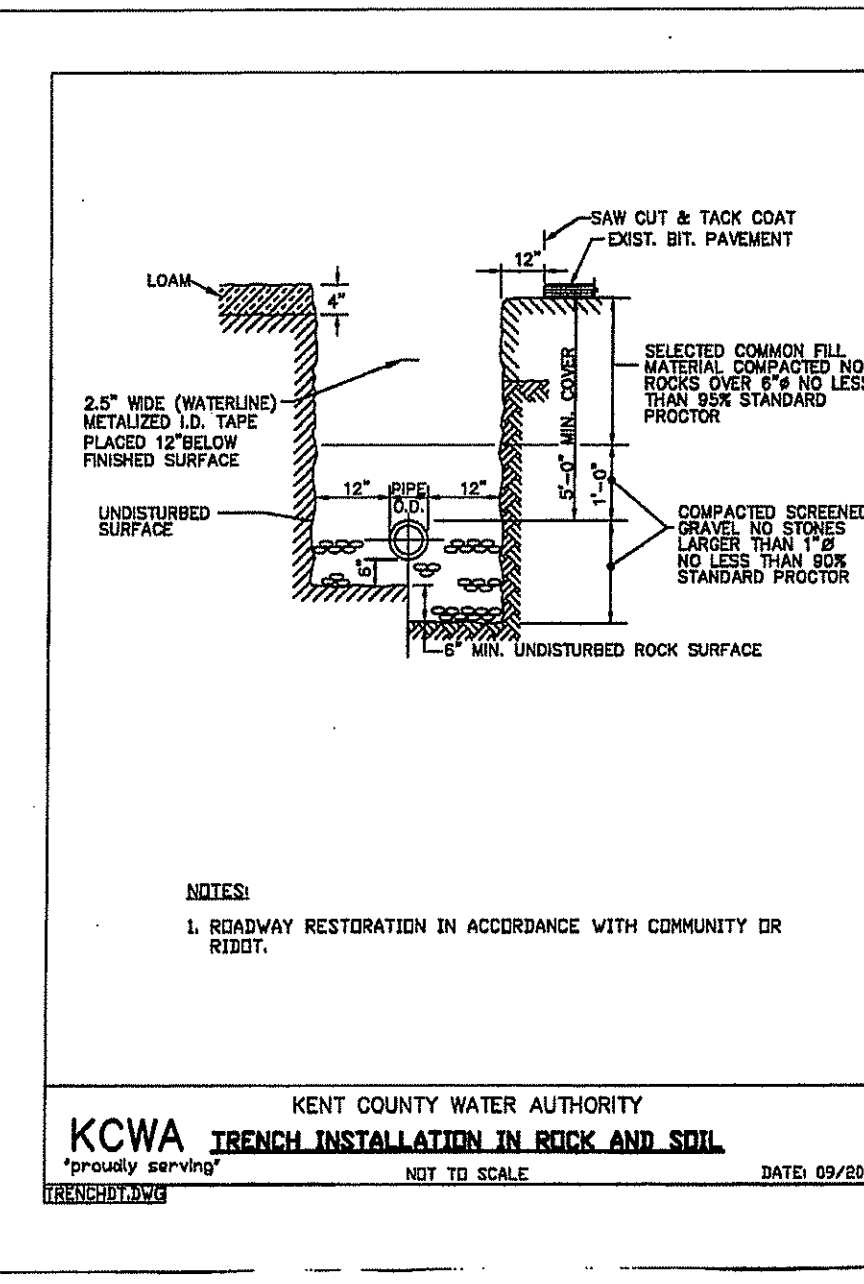
POLIQUIN PERFORMANCE HEADQUARTERS
A.P. 10 LOT 30
1598 SOUTH COUNTY TRAIL
EAST GREENWICH, R.I. 02818
OWNER & APPLICANT
TUCSON PROPERTY MANAGEMENT LLC
42 LADD STREET SUITE 109
EAST GREENWICH, R.I. 02818

DWN. BY: LBC DWG. NO. SPM760ER

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

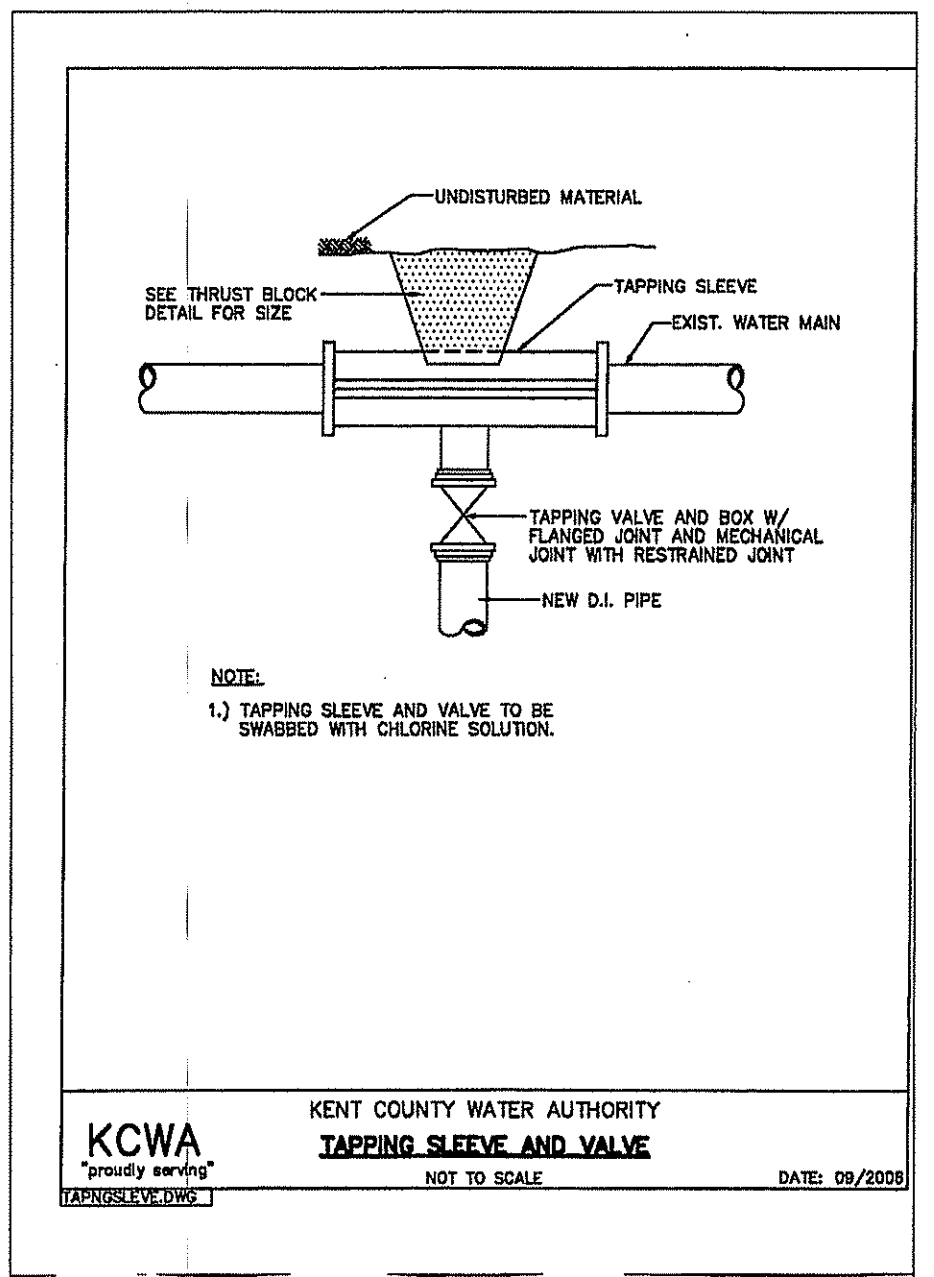
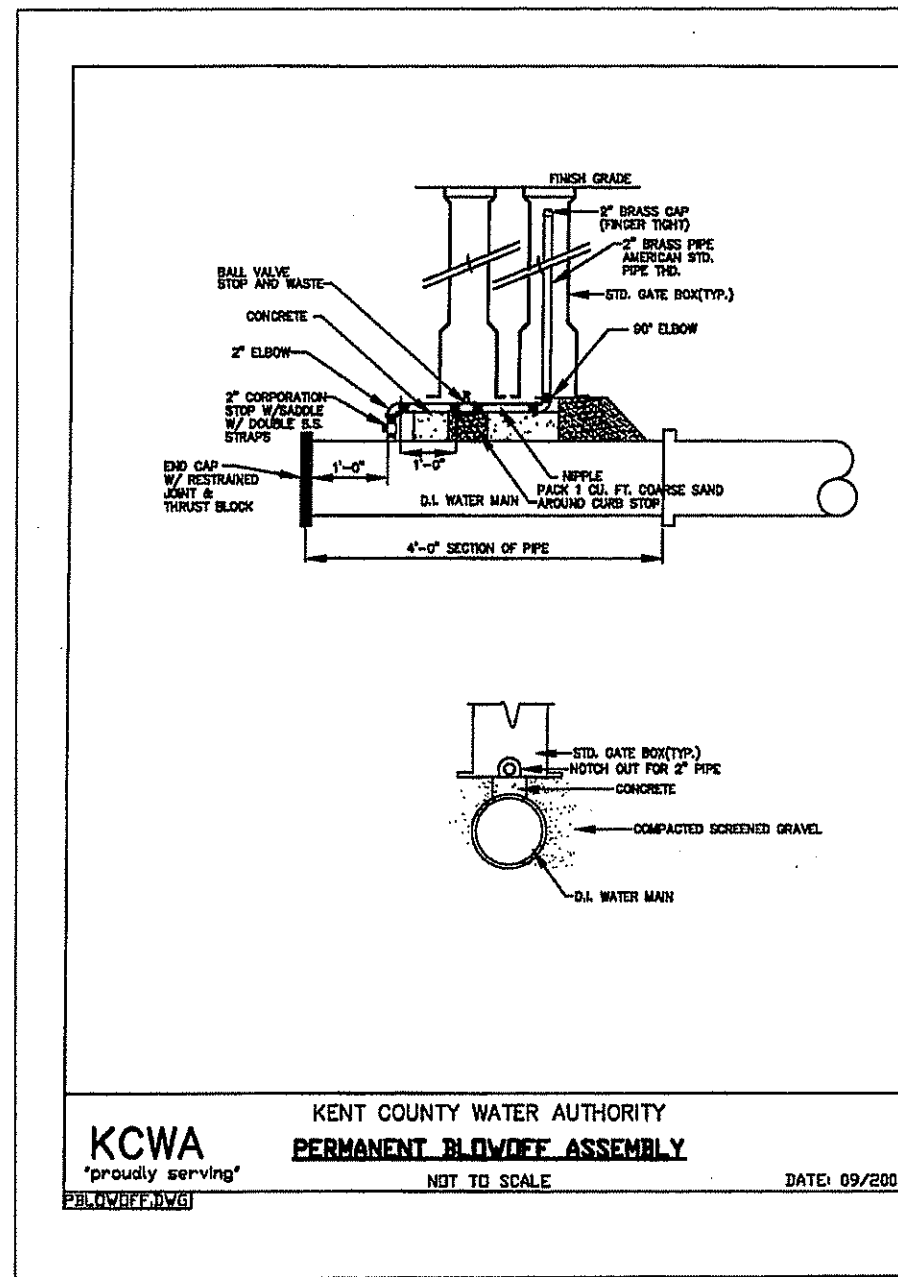
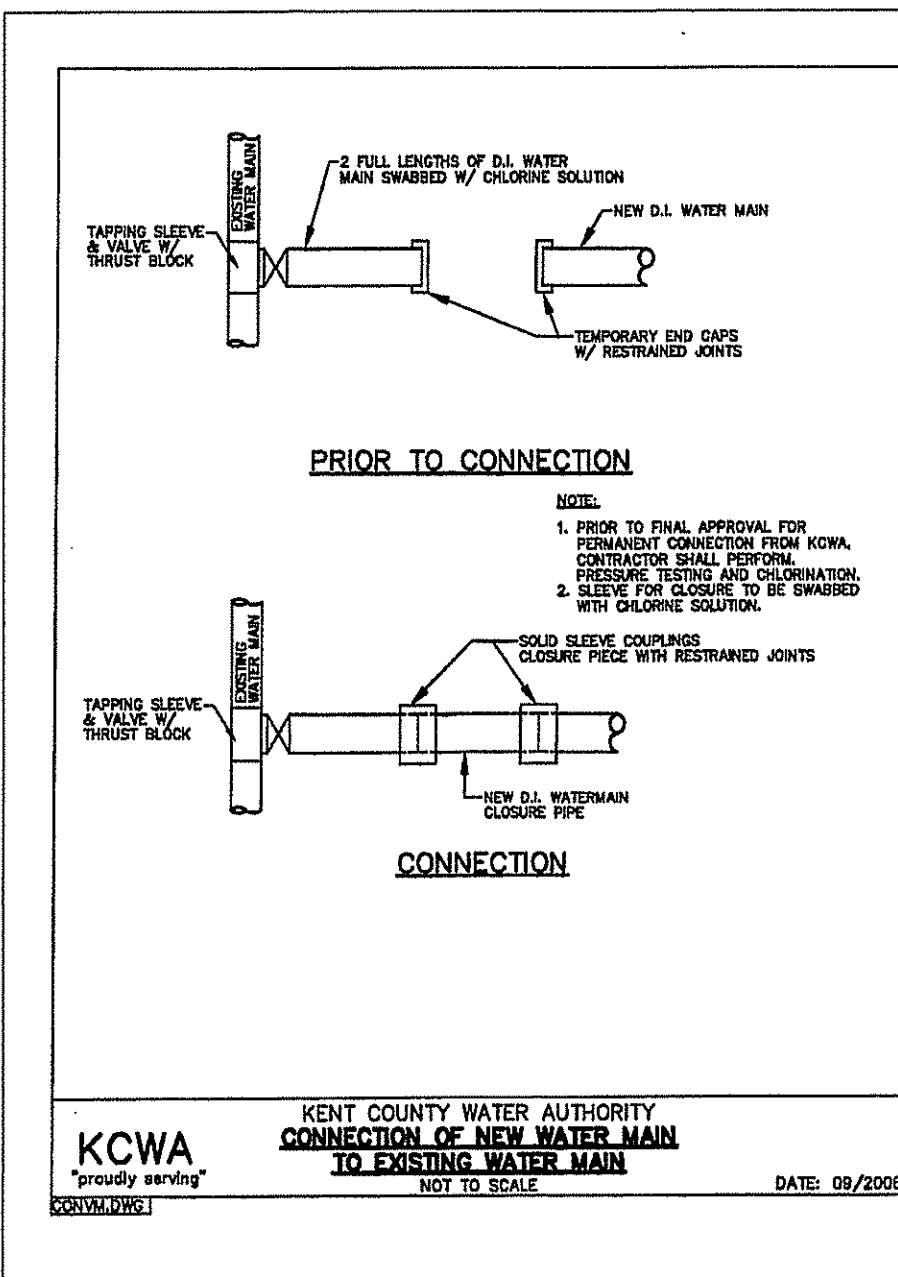
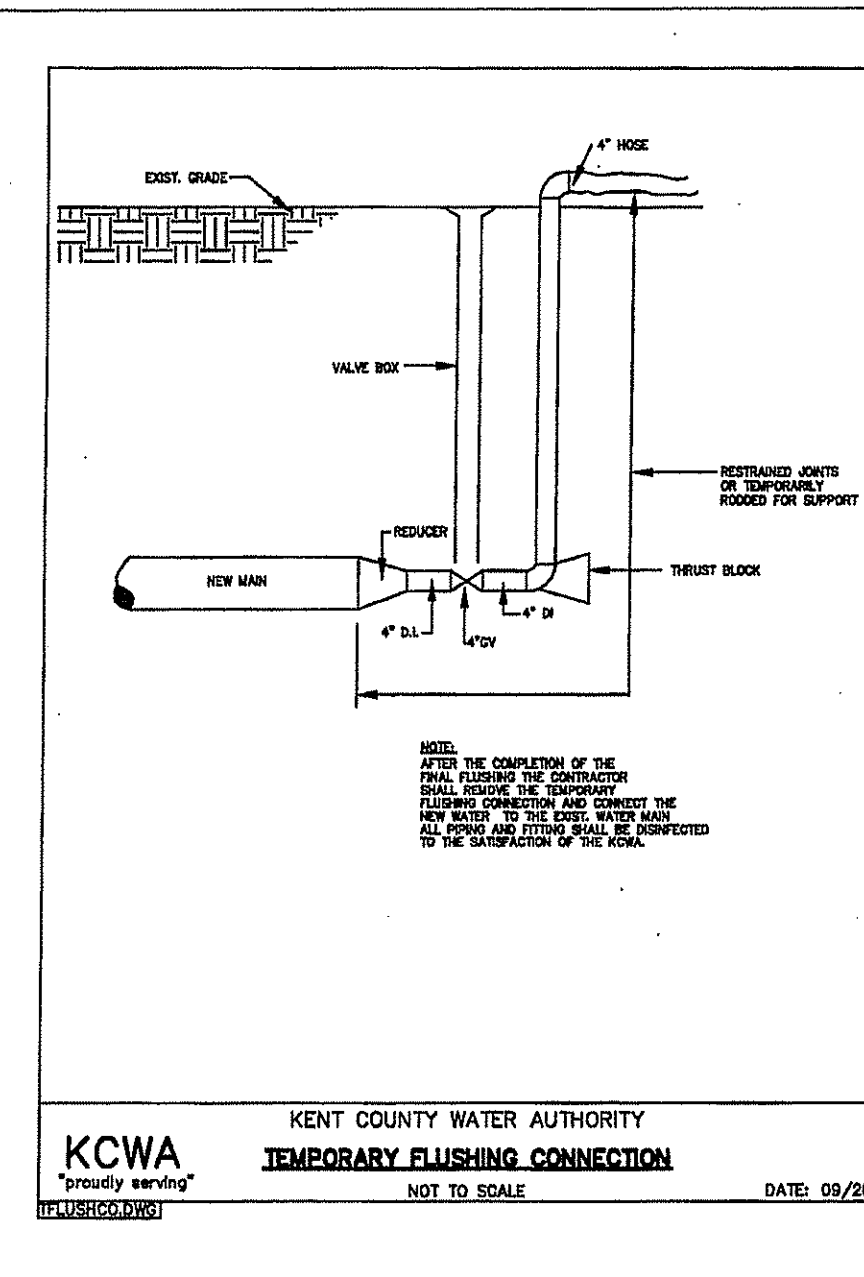
EROSION CONTROL NOTES & DETAILS

DATE: DEC. 9, 2012 SCALE: AS NOTED SHEET 8 OF 12



SEWER NOTES

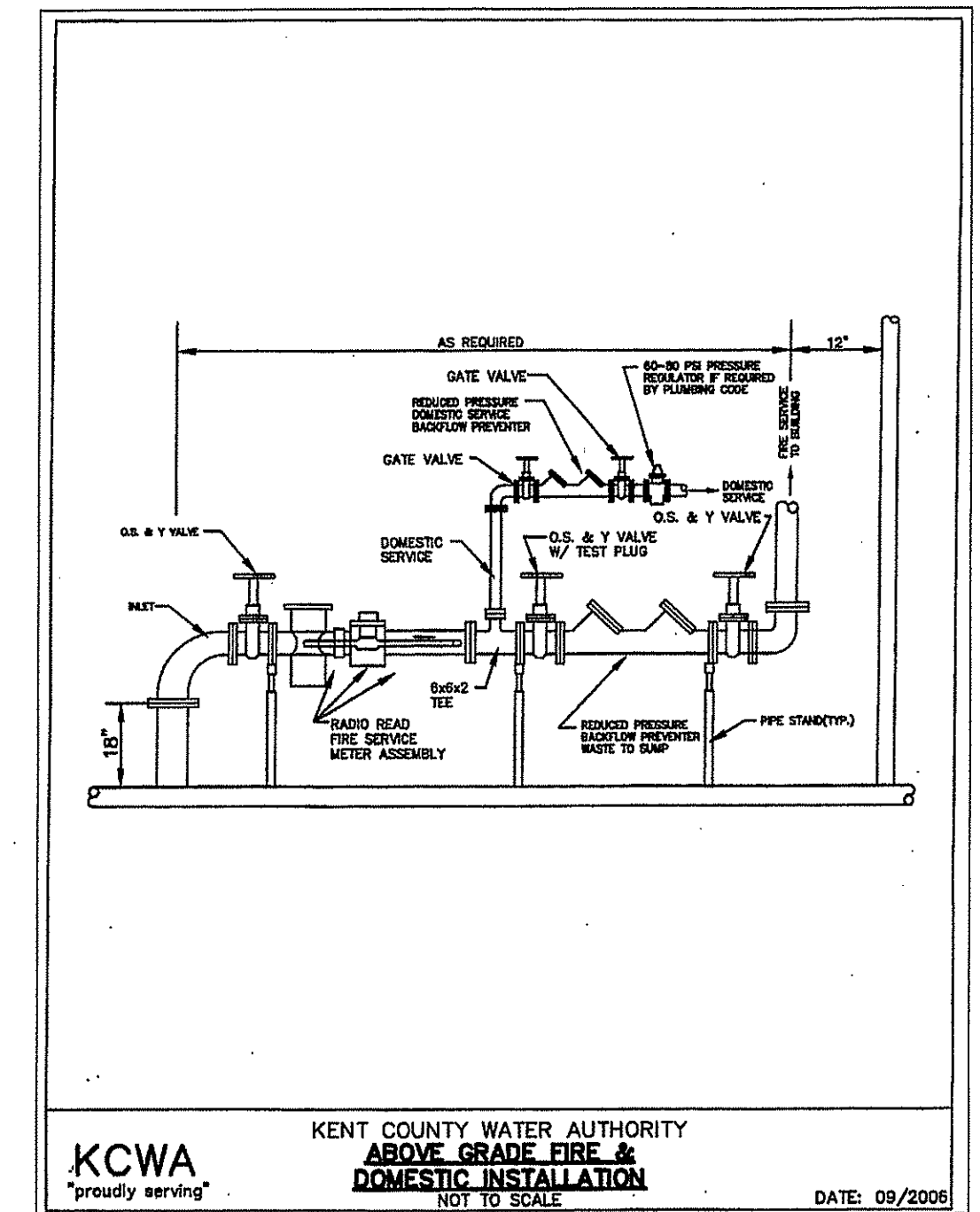
- LOCATIONS AND SIZES OF EXISTING UTILITIES IS PLOTTED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL INFORMATION WITH THE APPROPRIATE UTILITY AUTHORITY AND DIG SAFE PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
- ALL SEWER CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE EAST GREENWICH SEWER AUTHORITY.



RESTRAINED PIPE LENGTHS FOR RESTRAINED FITTINGS

FITTING	RESTRAINED LENGTH
12" PLUG	36"
12" Tee	48"
12" 90°	36"
12" 45°	48"
12" 22 1/2°	36"
12" 11 1/4°	36"
8" PLUG	36"
8" Tee	48"
8" 90°	36"
8" 45°	36"
8" 22 1/2°	36"
8" 11 1/4°	36"
4" Tee	48"
4" 90°	36"
4" 45°	36"
4" 22 1/2°	36"
4" 11 1/4°	36"
2" PLUG	48"
2" Tee	36"
2" 90°	36"
2" 45°	36"
2" 22 1/2°	36"
2" 11 1/4°	36"

KCWA RESTRAINED PIPE LENGTHS
 DATE: 09/2009
 NOT TO SCALE



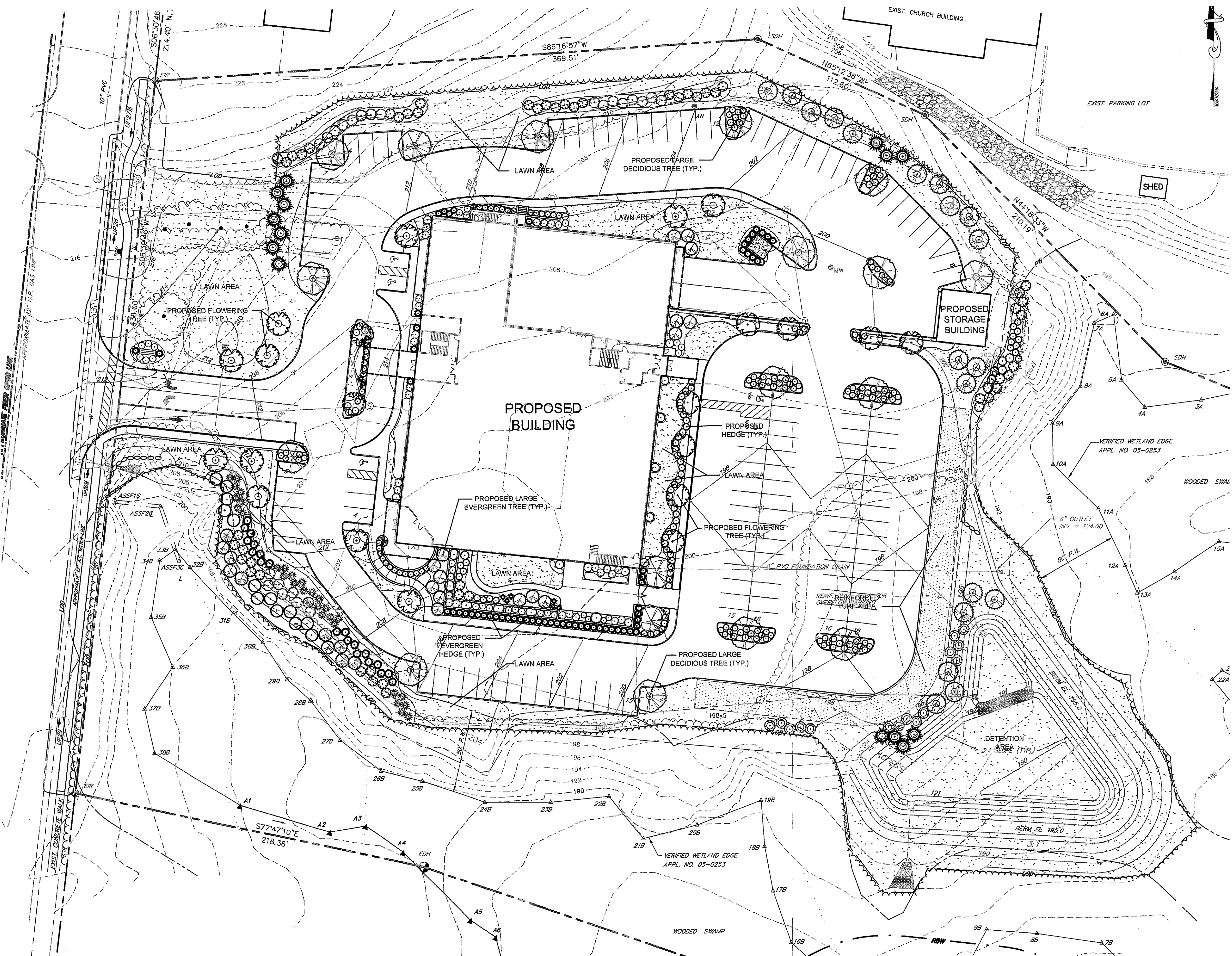
WATER NOTES

- WATER SERVICE MAIN SHALL BE 6" CL. S2 DOUBLE CEMENT LINED DUCTILE IRON. ALL WATER RELATED WORK SHALL BE IN ACCORDANCE WITH THE POLICIES AND PRACTICES OF THE KENT COUNTY 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 KENT COUNTY WATER AUTHORITY RULES AND REGULATIONS SHALL BE KEPT ON SITE DURING THE CONSTRUCTION OPERATION. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES, REGULATIONS AND DETAILS.
- THE CONTRACTOR IS RESPONSIBLE TO FULFILL THE AWWA REQUIREMENTS FOR FLUSHING AND DISINFECTION.
- WATER AS-BUILT DRAWINGS SHALL BE PROVIDED AND SHALL CONFORM TO THE REQUIREMENTS OF APPENDIX H OF THE KCWA REGULATIONS.
- WATER METER TO BE 6" NEPTUNE PROTECTUS III WITH 2" T-10 BYPASS. BACKFLOW PREVENTERS TO BE REDUCED PRESSURE TYPE. WALKING 375 OR APPROVED EQUAL. FIRE SERVICE BACKFLOW TO BE 6". DOMESTIC BACKFLOW TO BE 2". METER AND BACKFLOW PREVENTERS TO BE LOCATED IN MECHANICAL ROOM IN BUILDING AT WATER SERVICE ENTRANCE. SEE FIRE PROTECTION AND PLUMBING PLANS FOR DETAILS OF MECHANICAL ROOM.

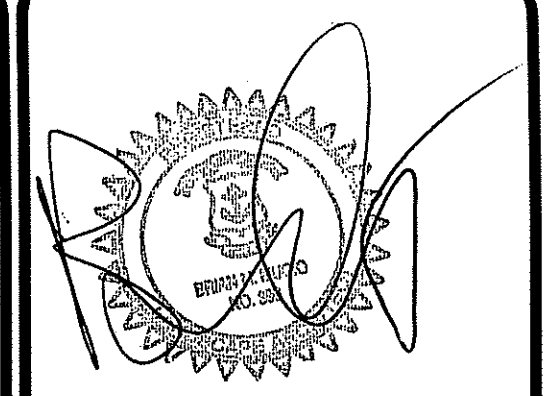
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 DATED FEB 16 2012 FILE # 07-037
 MODIFICATIONS ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenzel

	DATE	REVISION	POLIQUIN PERFORMANCE HEADQUARTERS A.P. 10 LOT 30 1598 SOUTH COUNTY TRAIL EAST GREENWICH, R.I. 02818 OWNER & APPLICANT TUCSON PROPERTY MANAGEMENT LLC 42 LADD STREET SUITE 109 EAST GREENWICH, R.I. 02818
	2-6-12	WATER NOTES	
	DWN. BY: LBC	DWG. NO. SFM780UD	UTILITY DETAILS DATE: DEC. 9, 2012 SCALE: AS NOTED SHEET 9 OF 12
	S.F.M. ENGINEERING ASSOCIATES 410 TIGUE AVENUE COVENTRY, R.I. 02816 (401)826-3736 SCOTT@SFM.NECOXMIL.COM		



Environmental Management
 FEB - 2012
 Office of Water Resources



Not Issued For Construction
 Revisions: No. Date: Notes:
 NO.1 02/07/12 RI DEM SUBMISSION

MDG
 MUOIO DESIGN GROUP, LLC
 Landscape Architects
 132 Rollwood Drive North Kingstown, RI 02882
 Ph: (401) 447-9332; Tx: (401) 946-9390; Email: mdg@mdgdesign.com

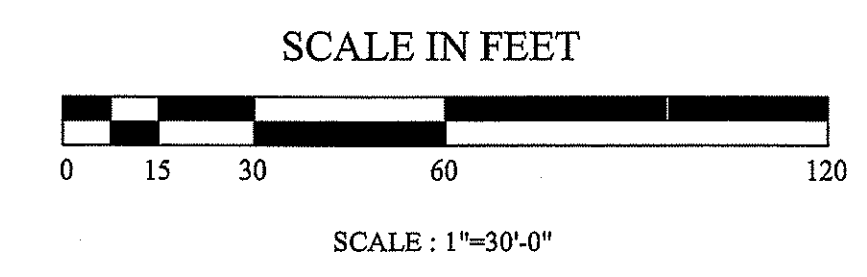
OVERALL LANDSCAPE PLAN
Poliquin Performance Headquarters
 Owner & Applicant: Tucson Property Management, LLC
 Project Location: South County Trail
 42 Ladd Street, Suite 109
 East Greenwich, Rhode Island 02818

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: FEB 16 2012 FILE # *05-0253*
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Matthew D. Woodard

LANDSCAPE REQUIREMENTS:

REQUIRED BY ZONING:	PROVIDED IN LANDSCAPE PLAN:
39 TREES REQUIRED <small>(1 TREE PER 2000 SF PAVED AREA, TOTAL PAVED AREA = 78,252 SF)</small>	87 TREES PROPOSED <small>(REPRESENTS ALL TREES ON SITE BOTH EVERGREENS AND DECIDUOUS TREES)</small>
PARKING ISLAND WITH MIN. OF 10 SHRUBS	±16 SHRUBS PROPOSED ON AVERAGE
SIZE OF TREE AT INSTALLATION <small>(TREE SHALL HAVE 2" DIA. AT 4' HEIGHT ABOVE GRADE)</small>	2" CALIPER OR GREATER PROPOSED
20% OF PARKING AREA TO BE LANDSCAPED <small>(TOTAL IMPERVIOUS AREA: ±113,850 SF, TOTAL LANDSCAPE AREA PROPOSED: ±50,600 SF)</small>	20% PROPOSED



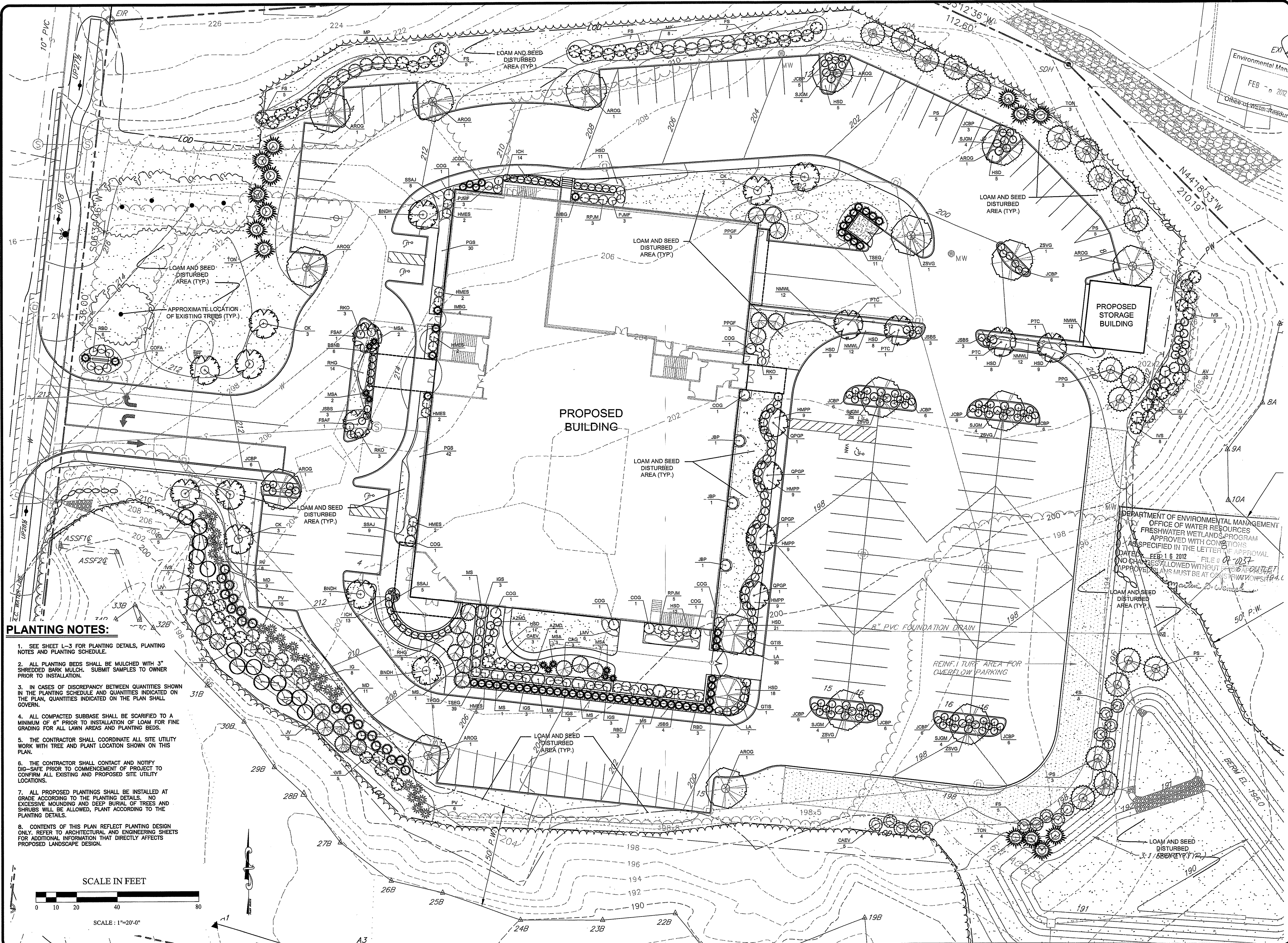
Job No: C-Poliquin
 Dwg. No: C-Poliquin_L1.dwg
 Drawn by: BMM
 Checked by: BMM
 Issue Date: 12/28/11

PERMITTING DOCUMENTS

THIS DRAWING IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. ANY UNAUTHORIZED USE OF THIS DRAWING WITHOUT WRITTEN PERMISSION IS PROHIBITED.

Sheet 10 of 12

L-1



PLANTING NOTES:

1. SEE SHEET L-3 FOR PLANTING DETAILS, PLANTING NOTES AND PLANTING SCHEDULE.
2. ALL PLANTING BEDS SHALL BE MULCHED WITH 3" SHREDDED BARK MULCH. SUBMIT SAMPLES TO OWNER PRIOR TO INSTALLATION.
3. IN CASES OF DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANTING SCHEDULE AND QUANTITIES INDICATED ON THE PLAN, QUANTITIES INDICATED ON THE PLAN SHALL GOVERN.
4. ALL COMPACTED SUBBASE SHALL BE SCARIFIED TO A MINIMUM OF 6" PRIOR TO INSTALLATION OF LOAM FOR FINE GRADING FOR ALL LAWN AREAS AND PLANTING BEDS.
5. THE CONTRACTOR SHALL COORDINATE ALL SITE UTILITY WORK WITH TREE AND PLANT LOCATION SHOWN ON THIS PLAN.
6. THE CONTRACTOR SHALL CONTACT AND NOTIFY DIG-SAFE PRIOR TO COMMENCEMENT OF PROJECT TO CONFIRM ALL EXISTING AND PROPOSED SITE UTILITY LOCATIONS.
7. ALL PROPOSED PLANTINGS SHALL BE INSTALLED AT GRADE ACCORDING TO THE PLANTING DETAILS. NO EXCESSIVE MOUNDING AND DEEP BURIAL OF TREES AND SHRUBS WILL BE ALLOWED, PLANT ACCORDING TO THE PLANTING DETAILS.
8. CONTENTS OF THIS PLAN REFLECT PLANTING DESIGN ONLY. REFER TO ARCHITECTURAL AND ENGINEERING SHEETS FOR ADDITIONAL INFORMATION THAT DIRECTLY AFFECTS PROPOSED LANDSCAPE DESIGN.

SCALE IN FEET



SCALE: 1"=20'-0"

Environmental Management
 FEB - 2012
 Office of Water Resources

Not Issued For Construction			
Revisions:	No.	Date:	Notes:
	NO. 1	02/07/12	RI DEM SUBMISSION

MDG
 MUOIO DESIGN GROUP, LLC
 132 Ralstonwood Drive North Kingstown, RI 02881
 P: (401) 497-9332 F: (401) 946-4390 E: mdg@mdgdesigngroup.com

ENLARGED PLANTING PLAN

Poliquin Performance Headquarters

Owner & Applicant: Tucson Property Management, LLC
 Project Location: South County Trail
 42 Ladd Street, Suite 109
 East Greenwich, Rhode Island 02818

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB 16 2012 FILE # 07-0237
 NO CHANGES ALLOWED WITHOUT PERMIT OUTLET
 APPROVALS MUST BE AT OUR WORKING DESK

Job No: C-Poliquin
 Dwg. No: C-Poliquin_L1.dwg
 Drawn by: BMM
 Checked by: BMM
 Issue Date: 12/28/11

PERMITTING DOCUMENTS

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Sheet 11 of 12

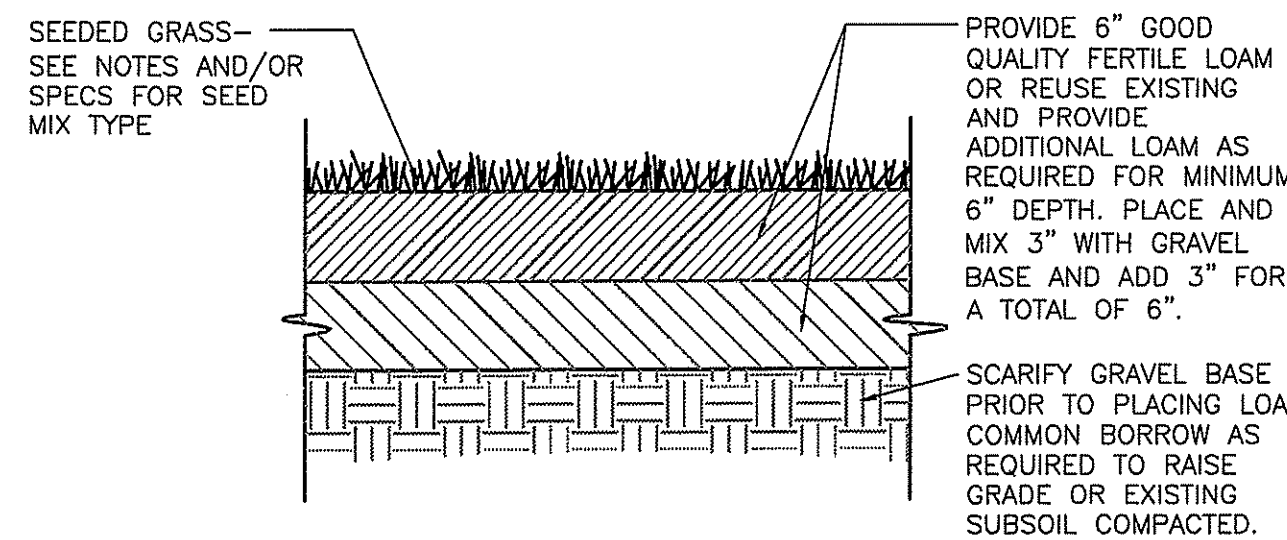
L-2

OVERALL PLANTING SCHEDULE				
TREES, SHRUBS, AND PERENNIALS				
Key	Botanical Name Common Name	Qty.	Size	Notes
ARQG	<i>Acer rubrum</i> 'Oscar Clay' Oscar Clay Red Maple	10	2'-2.5" Cal.	B&B
AZMD	<i>Asplenium Platyneuron</i> Mosses Day Asplenium	8	3 Gal.	Cont.
AV	<i>Asplenium Platyneuron</i> Mosses Day Asplenium	10	3 Gal.	Cont.
AV	<i>Asplenium Platyneuron</i> Mosses Day Asplenium	10	3 Gal.	Cont.
BNIG	<i>Banksia laevis</i> 'Dumbear' Dumbear Swamp Myrica	3	8'-10" Clp.	B&B
BSNB	<i>Banksia laevis</i> 'Dumbear' Dumbear Swamp Myrica	8	24"-30"	B&B
CAG	<i>Calluna vulgaris</i> Blue Aster Calluna	3	8'-10"	B&B
CAEV	<i>Calluna vulgaris</i> Blue Aster Calluna	8	30"-38"	Cont.
COO	<i>Chamaecyparis obtusa</i> Hawaii Cypress	9	5'-6"	B&B
COFA	<i>Chamaecyparis obtusa</i> Hawaii Cypress	2	4'-6"	B&B
CK	<i>Calluna vulgaris</i> Blue Aster Calluna	8	1.5'-2" Cal.	B&B
FS	<i>Fragaria virginiana</i> Wild Strawberry	34	4'-5"	B&B
FSAP	<i>Fragaria virginiana</i> Wild Strawberry	2	2" Cal.	B&B
GTIS	<i>Gleditsia triacanthos</i> var. 'Shademaster' Shademaster Locust	2	2.5'-3" Cal.	B&B
HMPF	<i>Hesperis matronalis</i> 'Alice Purple' Purple Night Stock	38	1 Gal.	Cont.
HMSB	<i>Hydrangea macrophylla</i> 'Lilac Summer' Lilac Summer Hydrangea	13	3 Gal.	Cont.
HSD	<i>Hydrangea macrophylla</i> 'Lilac Summer' Lilac Summer Hydrangea	117	1 Gal.	Cont.
ICH	<i>Ilex cornuta</i> 'Hedgecroft' Hedgecroft Holly	27	24"-30"	Cont.
IG	<i>Ilex glabra</i> Common Holly	13	24"-30"	Cont.
IGS	<i>Ilex glabra</i> 'Shannon' Shannon Holly	9	24"-30"	Cont.
IMBG	<i>Ilex mesaeoides</i> 'Blue Chip' Blue Chip Holly	5	4'-5"	B&B
IVB	<i>Ilex verticillata</i> 'Red Spirit' Red Spirit Winterberry	25	30"-38"	B&B
JBP	<i>Juniperus communis</i> 'Blue Pearl' Blue Pearl Juniper	3	4'-5"	B&B
JCCG	<i>Juniperus chinensis</i> 'Gold Coast' Gold Coast Juniper	4	15'-18"	Cont.
JCBP	<i>Juniperus conferta</i> 'Blue Pacific' Blue Pacific Juniper	68	15'-18"	Cont.
JBSB	<i>Juniperus squamata</i> 'Blue Star' Blue Star Juniper	13	3 Gal.	Cont.
JV	<i>Juniperus virginiana</i> Common Juniper	10	4'-5"	B&B
LA	<i>Ligustrum amurense</i> California Privet	43	4'-5"	B&B
LMV	<i>Liriodendron variegatum</i> Variegated Liriodendron	6	1 Gal.	Cont.
MD	<i>Microbiota decussata</i> Russian Cypress	20	3 Gal.	Cont.
MS	<i>Magnolia 'Spillan'</i> Star Magnolia	7	5'-6"	B&B
MP	<i>Myrica pensylvanica</i> Nodding Myrica	18	24"-30"	Cont.
MSA	<i>Muscadota sinensis</i> 'Adagio' Adagio Grass	10	3 Gal.	Cont.
NMWL	<i>Nepeta menthaefolia</i> Walker's Catnip	48	1 Gal.	Cont.
POS	<i>Pachysandra terminalis</i> 'Green Sheen' Green Sheen Pachysandra	72	Quarts	Cont.
PJMF	<i>Prunella japonica</i> 'Mountain Fire' Mountain Fire Prunella	6	18"-24"	B&B
PPG	<i>Pinus pungens</i> Colorado Blue Spruce	3	7'-8"	B&B
PPGF	<i>Pinus pungens</i> Colorado Blue Spruce	6	7'-8"	B&B
PS	<i>Pinus strobus</i> White Pine	18	6'-7"	B&B
PTC	<i>Prunella 'Thunderbolt'</i> Purple Plum	4	1.5'-2" Cal.	B&B
PV	<i>Panicum virgatum</i> Switch Grass	29	2 Gal.	Cont.
QPQF	<i>Quercus palustris</i> 'Green Pillar' Green Pillar Oak	4	2'-2.5" Cal.	B&B
RBD	<i>Rhododendron 'Duchess de Nemours'</i> Duchess de Nemours Rhododendron	12	18"-24"	B&B
RHG	<i>Rubus odoratus</i> 'Goldstraw' Black-King Rubus	22	1 Gal.	Cont.
RKX	<i>Rosa 'Knockout'</i> Red Knockout Rose	9	3 Gal.	Cont.
RPM	<i>Rhododendron 'FJM'</i> FJM Rhododendron	8	24"-30"	Cont.
SJGM	<i>Spiraea japonica</i> 'Gold Mound' Gold Mound Spiraea	24	18"-24"	Cont.
SSAJ	<i>Sedum 'Autumn Joy'</i> Autumn Joy Sedum	22	1 Gal.	Cont.
TON	<i>Thuja occidentalis</i> 'Niger' Dark American Arborvitae	7	6'-7"	B&B
TSEB	<i>Thuja sargentii</i> 'Emerald Coast' Emerald Coast Arborvitae	50	5'-6"	B&B
TPGG	<i>Thuja glauca</i> 'Green Giant' Green Giant Arborvitae	6	8'-10"	B&B
VD	<i>Viburnum dentatum</i> Arrowwood Viburnum	13	30"-38"	B&B
ZSVM	<i>Zelkova sericea</i> 'Village Green' Village Green Elm	8	2'-2.5" Cal.	B&B

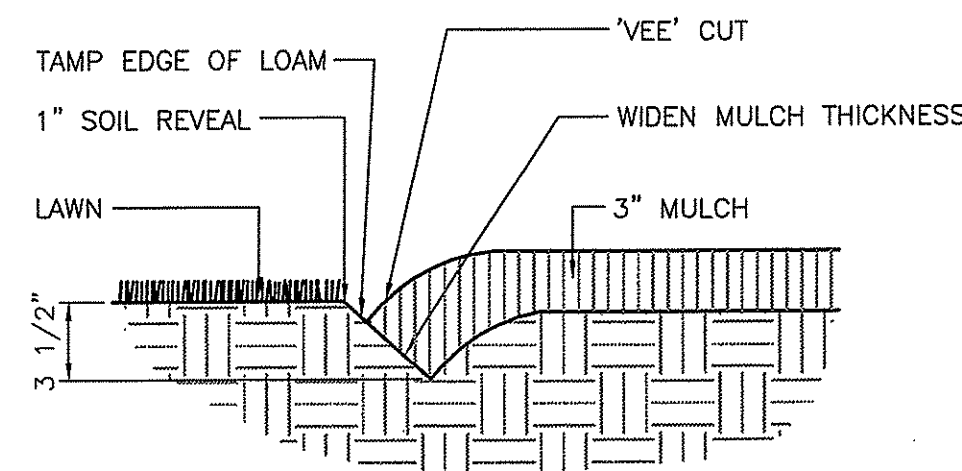
PLANTING NOTES:

- All plant material must be tagged in the ground, at the nursery by the Landscape Architect. All plant material shall be commercially obtained and shall meet the American Association of Nurseryman standards for nursery stock, latest edition, and its amendments. Plant only during season normal to the particular variety. All plant inspections will be at the expense of the contractor. Permanent seals will be required.
- Cover all planting beds with 3" shredded hardwood bark mulch within a seventy-two hour period after planting. See plan for bed layout.
- All existing and proposed trees shown in lawn areas shall receive a 6" diameter mulch bed. Mulch shall be placed to a depth of 3". Remove all sod, roots, sticks and stones prior to placement of mulch.
- All plant materials furnished by the contractor shall be guaranteed for a period of one year from final acceptance of landscape work.
- Stake all trees over 5' as shown on details. Remove stakes at the end of the guarantee period.
- The contractor is responsible for keeping the site clean of miscellaneous debris throughout the construction period. All waste material is to be disposed of immediately to an off-site location, unless otherwise indicated on the plans.
- The contractor shall perform all work in accordance with all local, state, and federal regulations, and shall obtain all necessary permits for this project.
- Layout: All notes and dimensions are typical unless otherwise noted. All dimensions are square (parallel or perpendicular) unless otherwise noted. The contractor shall notify the owner/owner's representative immediately in the event of any discrepancies found in the contract documents and/or in the field, or of conditions uncovered in the work which are not reflected in the plans.
- Loam: Loam moved during the course of construction shall be retained and distributed within the site in accordance with the landscape plan. Stockpiled loam shall not be mixed with any subsoil or unsuitable materials. All excess loam shall remain on the property of the owner. New loam if required to provide the specified depth, shall be a fertile, friable medium textured sandy loam free of material toxic to healthy plant growth. Loam shall also be free of all stumps, roots, stones and other extraneous matter an inch (1") or greater in diameter. The PH shall be between 5.5 and 7.5 when tested.
- Lawn Preparation: Remove all debris and other inorganic materials on the prepared subgrade, reshape and dress any damaged or eroded area prior to spreading the loam. Scarify and loosen subgrade in any areas where compaction may have occurred. Spread stockpiled and off-site loam on all disturbed areas to produce a depth of 6". Fine grade loamed areas to produce a smooth and uniform finish grade to the required depth. Apply a starter fertilizer (10-20-10) at a rate of 20 lbs. per 1000 square feet and lime at a rate of 40 lbs. per 1000 square feet. Once spread, the fertilizer and lime shall be thoroughly incorporated into the loam. The loam shall be rolled, and depression shall be top dressed and raked to create a smooth surface.
- Seeding: Seeding shall take place between March 15 and May 31 or August 15 and October 15 only. Seed shall be pure, live, fresh seed from commercial sources meeting and labeled in accordance with State and Federal rules and regulations. The seed mixture shall consist of a seed mixture equivalent to the University of Rhode Island No.2 Seed Blend or approved equal. The contractor shall submit a detailed breakdown of the seed mixture prior to installation for approval by the landscape architect.

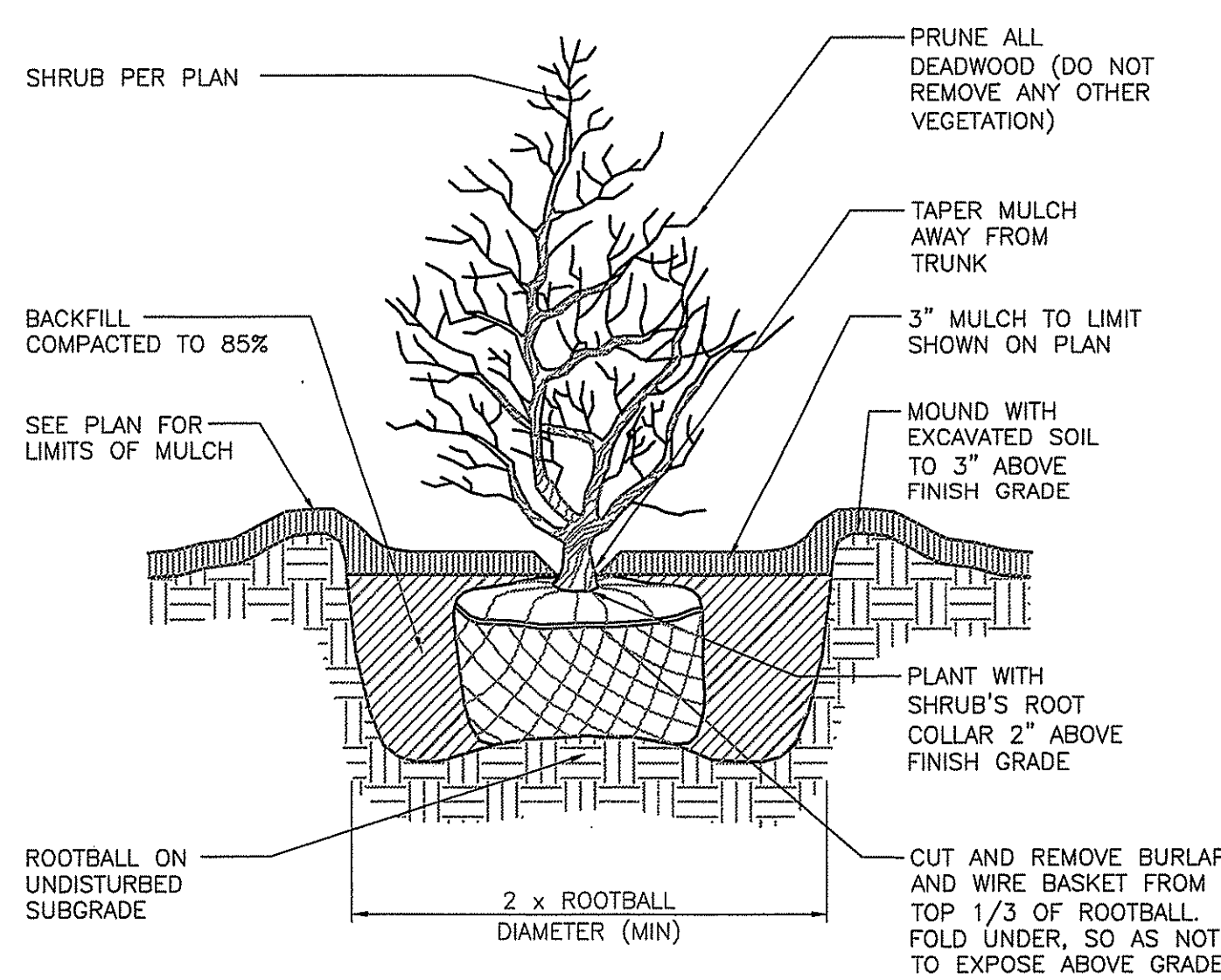
Seeded areas shall, at a minimum, include all areas of the site that have been disturbed or are barren unless otherwise noted on the plans. Seed shall be applied at a rate of 7 lbs. per 1000 square feet.
- Protection of Existing Plantings: Maximum effort should be made to save tree or other plant specimens which are large for their species, rare to the area, or of special horticultural or landscape value. Contact owner/landscape architect before removing any specimen of this type unless otherwise noted on the plans. No material or temporary soil deposits shall be placed within the drip line of shrubs or trees designated on the landscape plan to be retained. Protective barriers are to be installed around each plant and/or group of plants that are to remain on the site. Barriers shall not be supported by the plants they are protecting, but shall be self supporting. They shall be of minimum of four feet (4') high and constructed of a durable material, such as snow or silt fence, that will last until construction is completed.
- Pruning: The contractor shall carefully prune branches in the way of construction by using only approved methods and tools. The use of axes for trimming or spurs for climbing will not be permitted.
- Existing Utilities: In accordance with Dig-Safe law (1-800-225-4977), the contractor shall contact all applicable utility companies and verify utility line locations. The contractor shall be solely responsible for any/all utility damage. Record locations of Dig-Safe utility line markings on project record documents.
- Disturbed Areas: Any areas disturbed during the course of construction are to be restored to original (or better) condition by contractor before completion of the project, and are subject to approval by landscape architect and owner. All grass areas disturbed during construction shall be yolk raked to remove stones and loamed and seeded as per specifications.
- Drainage Systems: Contractor is responsible for general clean-out of all catch basins, manholes, and/or other drainage features on the site which have accumulated sediment as a result of construction activities.
- Cleaning: Contractor is responsible for keeping site clean of miscellaneous debris throughout the construction period. All waste material is to be disposed of immediately to an off-site location, unless otherwise indicated on the plan.



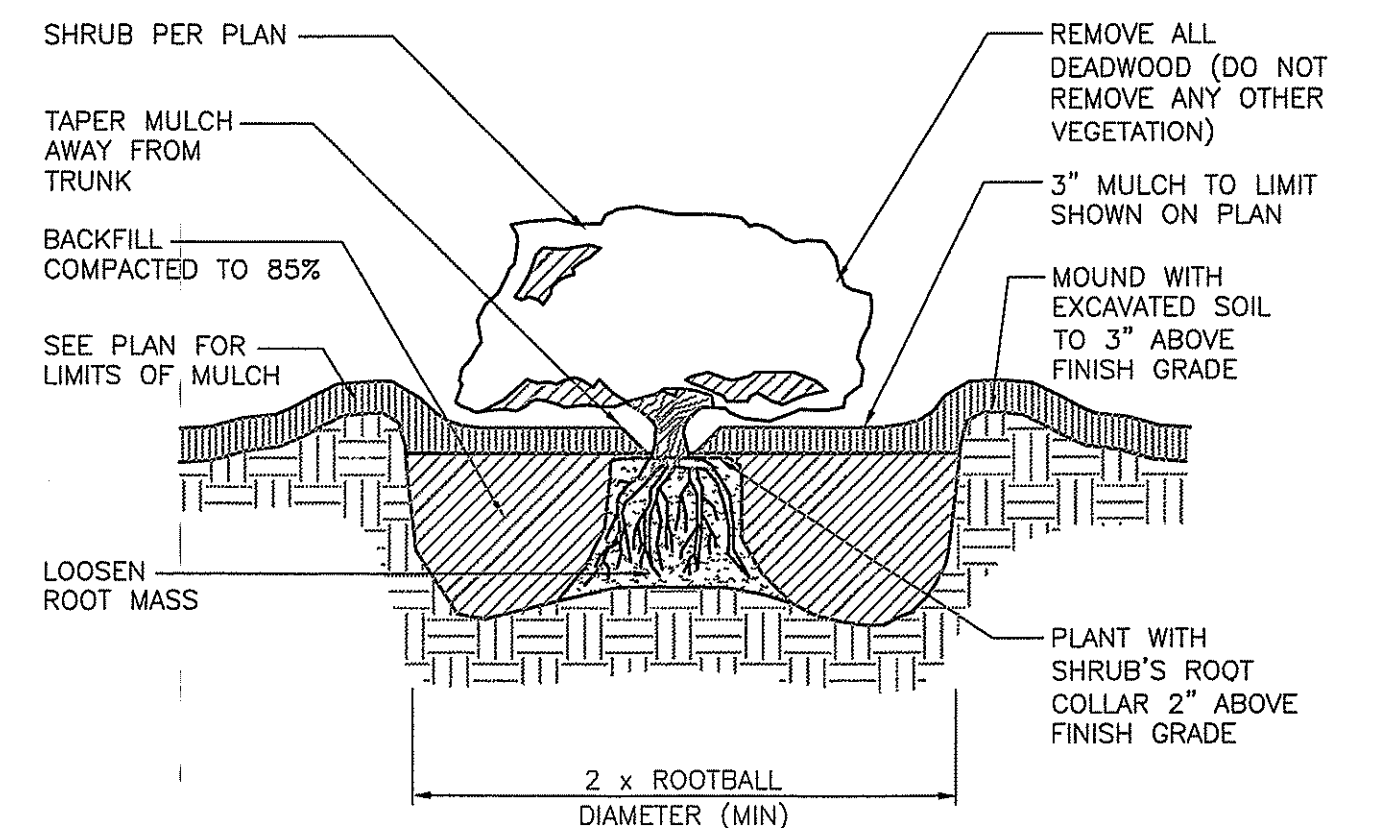
LOAM AND SEED DETAIL
NOT TO SCALE



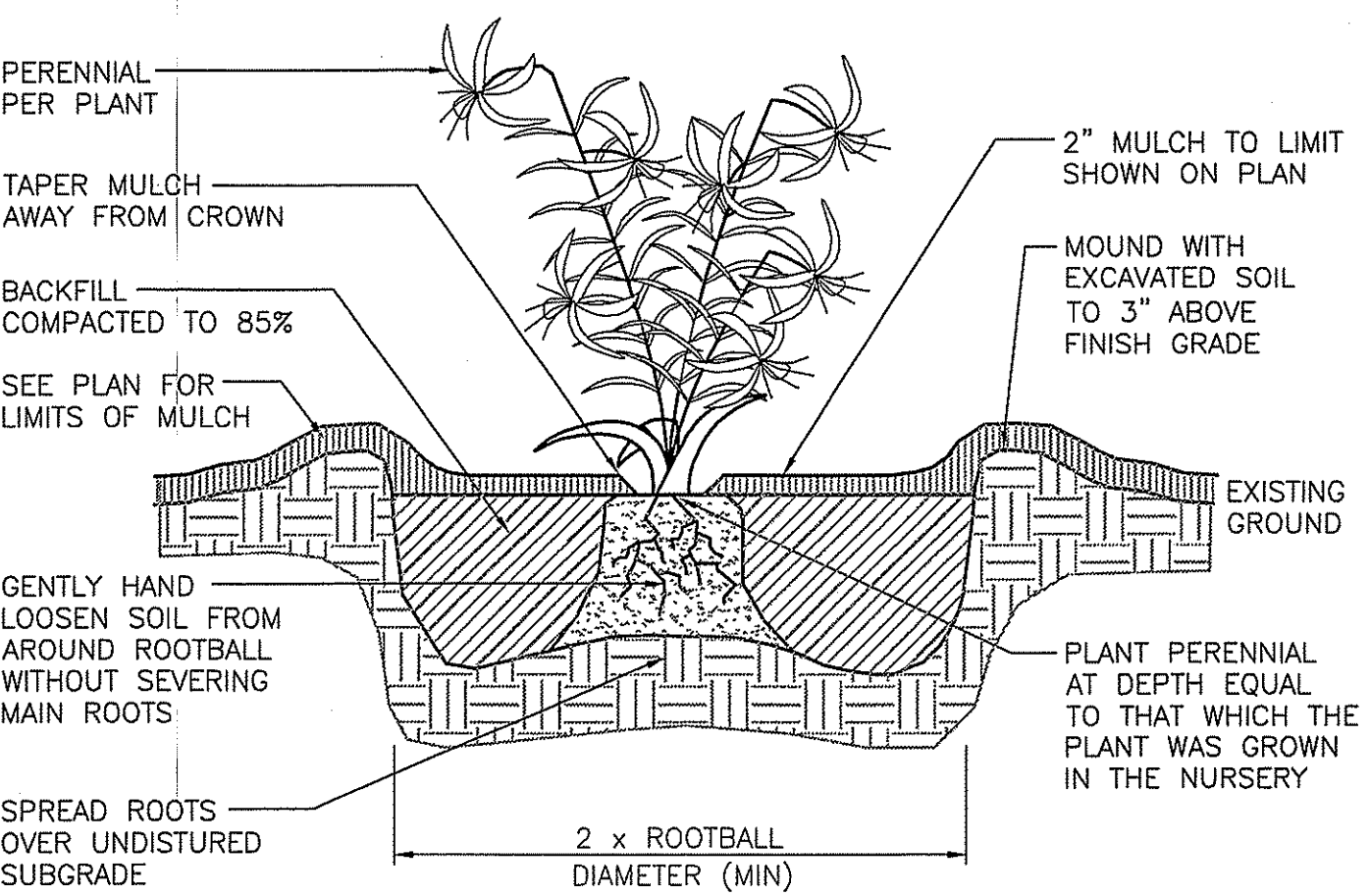
NOTE: LOCATE BEDLINE AS SHOWN ON PLAN.
BEDLINE EDGE DETAIL
NOT TO SCALE



SHRUB PLANTING DETAIL
NOT TO SCALE

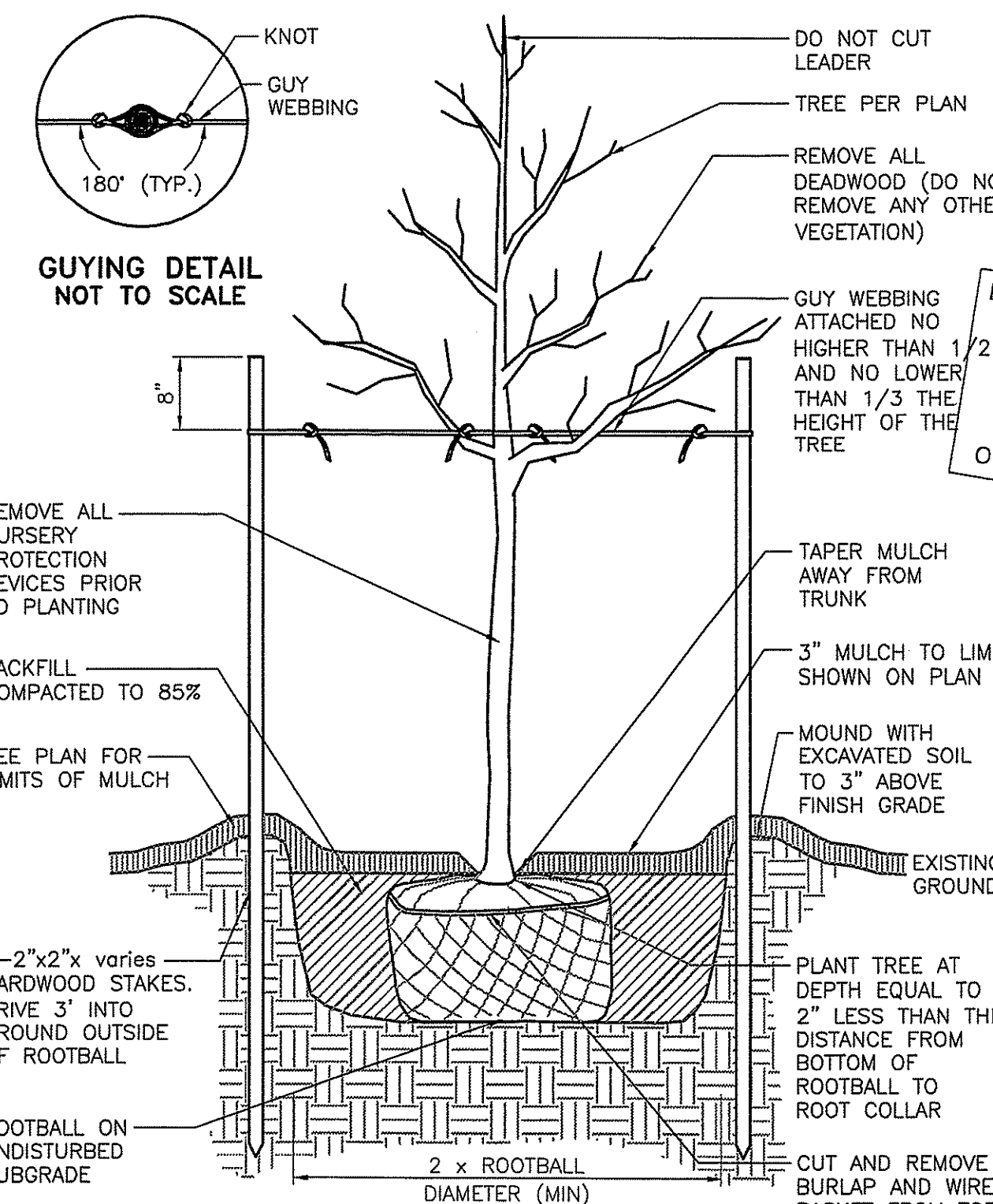


CONTAINER GROWN TREE AND SHRUB PLANTING DETAIL
NOT TO SCALE

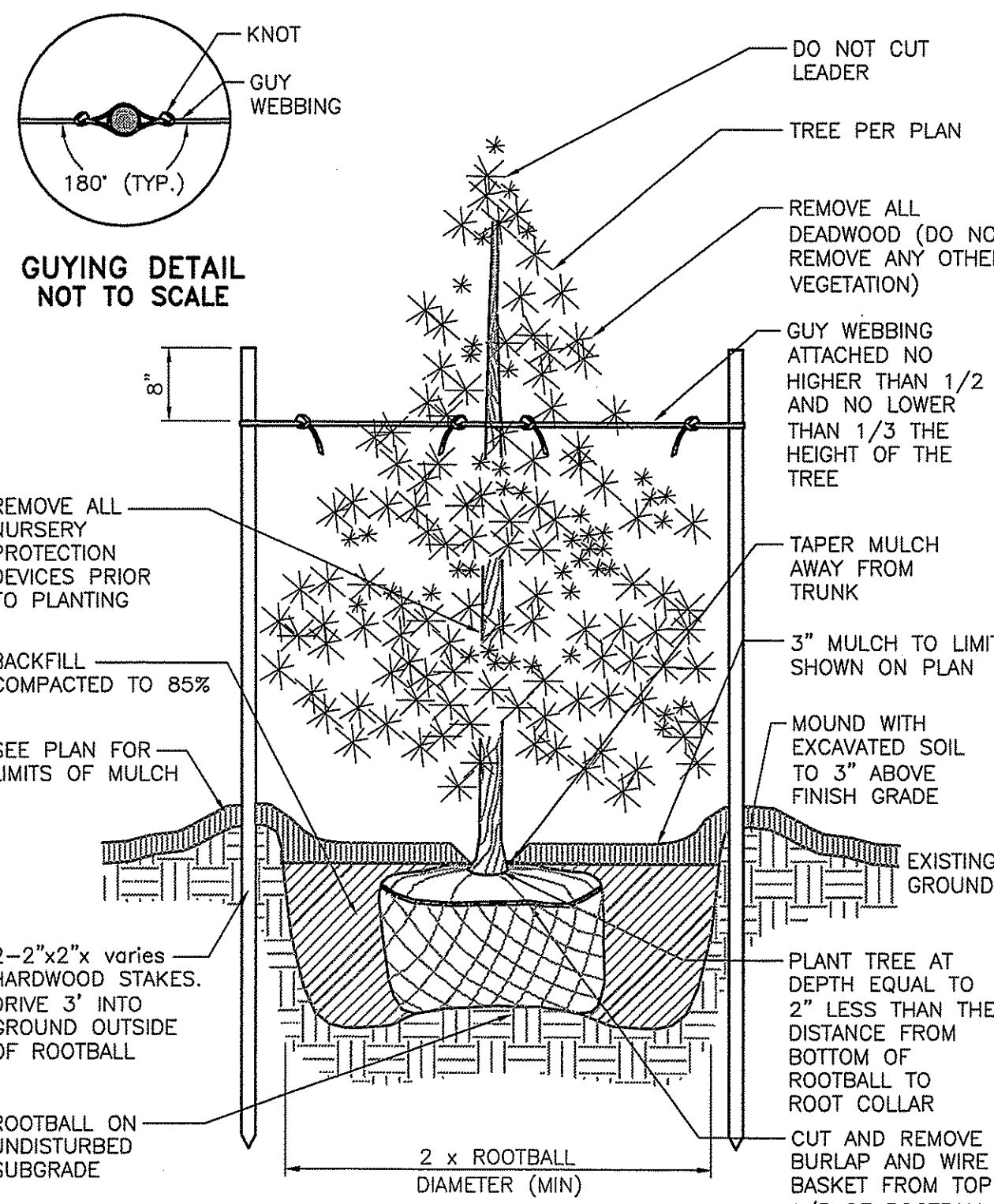


PERENNIAL PLANTING DETAIL
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
FEB 16 2012 FILE # 09-0837
DATED
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



DECIDUOUS TREE STAKING AND PLANTING DETAIL
NOT TO SCALE



EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

NOTE:
1. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.

Environmental Management
FEB - 9 2012
Office of Water Resources

Not Issued For Construction
Revisions: No. Date: Notes:
NO. 1 02/07/12 RI DEM SUBMISSION
MDG
MUOIO DESIGN GROUP, LLC
132 Ralstonwood Drive North Kingstown, RI 02882
Ph: (401) 942-2332 Fax: (401) 942-4390 Email: mdg@muoiogroup.com

PLANTING DETAILS PLAN

Poliquin Performance Headquarters

Owner & Applicant: Tucson Property Management LLC
42 Ladd Street, Suite 109
East Greenwich, Rhode Island 02818
Project Location: South County Trail
East Greenwich, Rhode Island

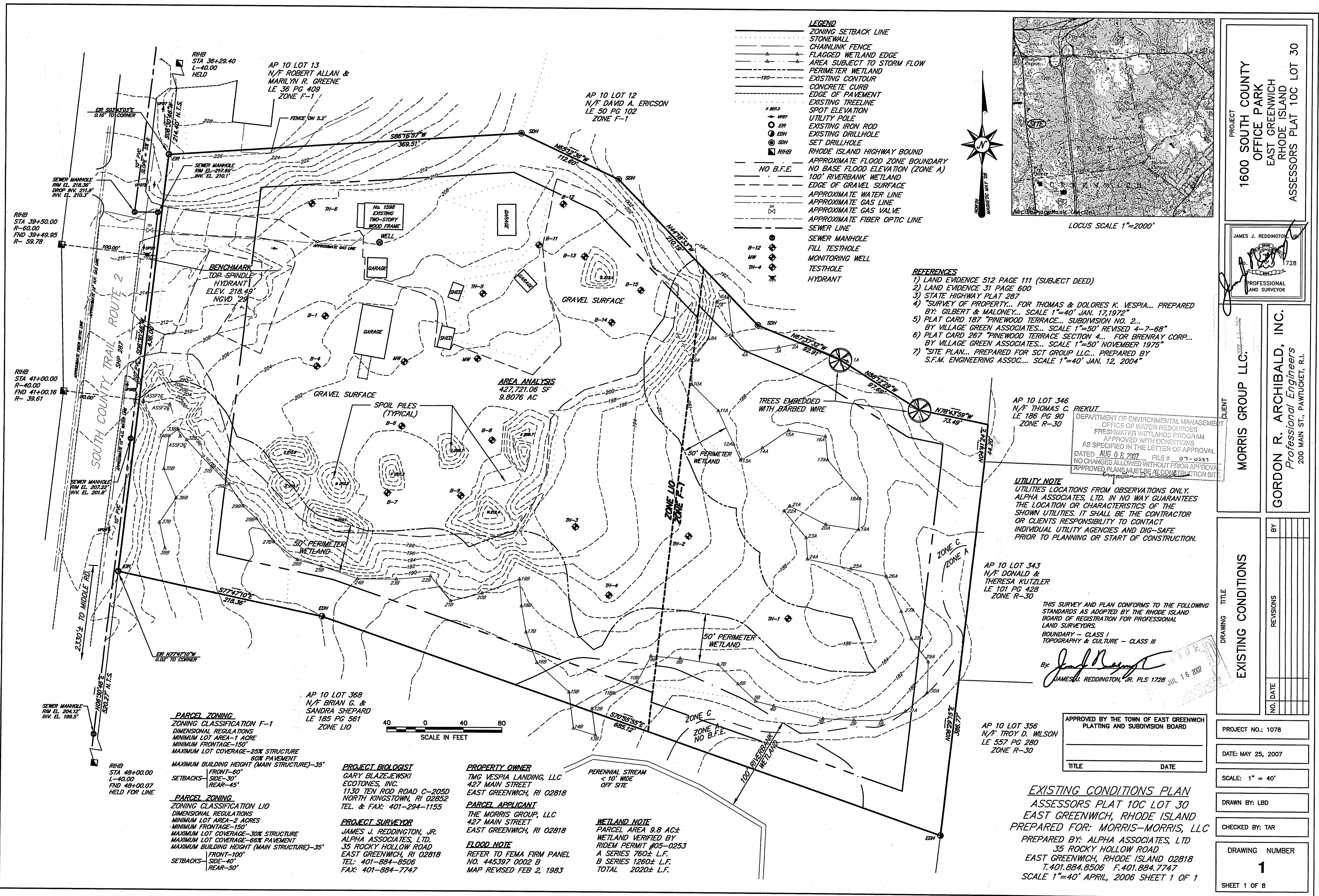
Job No: C-Poliquin
Dwg. No: C-Poliquin_L1.dwg
Drawn by: BMM
Checked by: BMM
Issue Date: 12/28/11

PERMITTING DOCUMENTS

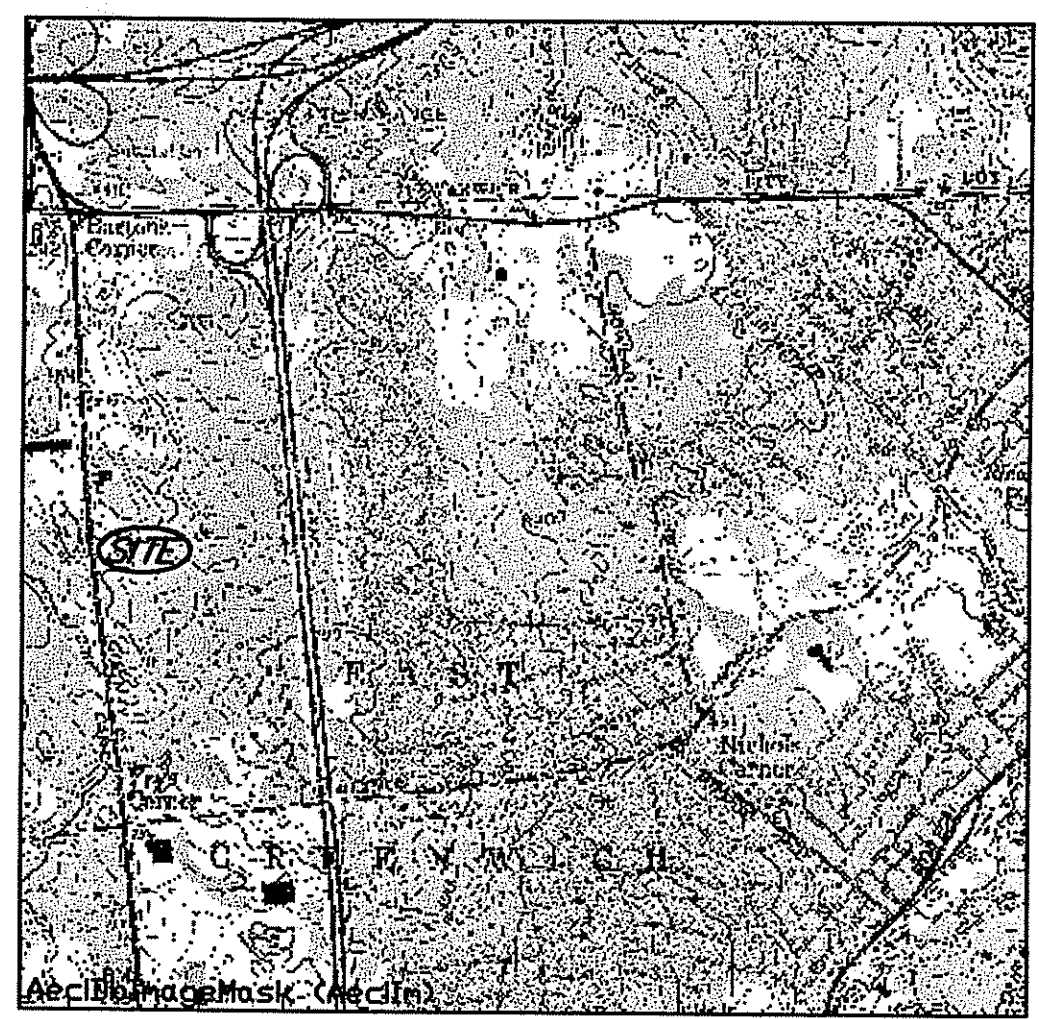
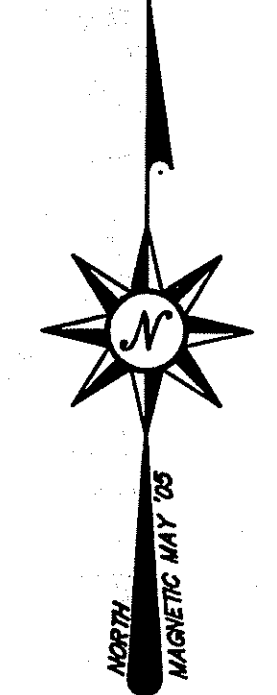
THIS DRAWING IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. ANY UNAUTHORIZED USE OF THIS DRAWING WITHOUT WRITTEN PERMISSION IS PROHIBITED.

Sheet 12 of 12

L-3



- LEGEND**
- ZONING SETBACK LINE
 - STONEWALL
 - CHAINLINK FENCE
 - FLAGGED WETLAND EDGE
 - AREA SUBJECT TO STORM FLOW
 - PERIMETER WETLAND
 - EXISTING CONTOUR
 - CONCRETE CURB
 - EDGE OF PAVEMENT
 - EXISTING TREE LINE
 - SPOT ELEVATION
 - UTILITY POLE
 - EXISTING IRON ROD
 - EXISTING DRILLHOLE
 - SET DRILLHOLE
 - RHODE ISLAND HIGHWAY BOUND
 - APPROXIMATE FLOOD ZONE BOUNDARY
 - NO BASE FLOOD ELEVATION (ZONE A)
 - 100' RIVERBANK WETLAND
 - EDGE OF GRAVEL SURFACE
 - APPROXIMATE WATER LINE
 - APPROXIMATE GAS LINE
 - APPROXIMATE GAS VALVE
 - APPROXIMATE FIBER OPTIC LINE
 - SEWER LINE
 - SEWER MANHOLE
 - FILL TESTHOLE
 - MONITORING WELL
 - TESTHOLE
 - HYDRANT



- REFERENCES**
- 1) LAND EVIDENCE 512 PAGE 111 (SUBJECT DEED)
 - 2) LAND EVIDENCE 31 PAGE 600
 - 3) STATE HIGHWAY PLAT 287
 - 4) "SURVEY OF PROPERTY... FOR THOMAS & DOLORES K. VESPIA... PREPARED BY: GILBERT & MALONEY... SCALE 1"=40' JAN. 17, 1972"
 - 5) PLAT CARD 187 "PINWOOD TERRACE... SUBDIVISION NO. 2... BY VILLAGE GREEN ASSOCIATES... SCALE 1"=50' REVISED 4-7-68"
 - 6) PLAT CARD 267 "PINWOOD TERRACE SECTION 4... FOR BRENRAY CORP... BY VILLAGE GREEN ASSOCIATES... SCALE 1"=50' NOVEMBER 1975"
 - 7) "SITE PLAN... PREPARED FOR SCT GROUP LLC... PREPARED BY S.F.M. ENGINEERING ASSOC... SCALE 1"=40' JAN. 12, 2004"

AP 10 LOT 346
N/F THOMAS C. PIEKUT
LE 186 PG 90
ZONE R-30

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 08 2007 FILE # 07-0231
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

UTILITY NOTE
UTILITIES LOCATIONS FROM OBSERVATIONS ONLY. ALPHA ASSOCIATES, LTD. IN NO WAY GUARANTEES THE LOCATION OR CHARACTERISTICS OF THE SHOWN UTILITIES. IT SHALL BE THE CONTRACTOR OR CLIENTS RESPONSIBILITY TO CONTACT INDIVIDUAL UTILITY AGENCIES AND DIG-SAFE PRIOR TO PLANNING OR START OF CONSTRUCTION.

AP 10 LOT 343
N/F DONALD & THERESA KUTZLER
LE 101 PG 428
ZONE R-30

THIS SURVEY AND PLAN CONFORMS TO THE FOLLOWING STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
BOUNDARY - CLASS I
TOPOGRAPHY & CULTURE - CLASS III

By: *James J. Reddington, Jr.*
JAMES J. REDDINGTON, JR. PLS 1728 JUL 16 2007

AP 10 LOT 356
N/F TROY D. WILSON
LE 557 PG 280
ZONE R-30

APPROVED BY THE TOWN OF EAST GREENWICH PLATTING AND SUBDIVISION BOARD	
TITLE	DATE

EXISTING CONDITIONS PLAN
ASSESSORS PLAT 10C LOT 30
EAST GREENWICH, RHODE ISLAND
PREPARED FOR: MORRIS-MORRIS, LLC
PREPARED BY: ALPHA ASSOCIATES, LTD
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RHODE ISLAND 02818
T.401.884.8506 F.401.884.7747
SCALE 1"=40' APRIL, 2006 SHEET 1 OF 1

PARCEL ZONING
ZONING CLASSIFICATION F-1
DIMENSIONAL REGULATIONS
MINIMUM LOT AREA-1 ACRE
MINIMUM FRONTAGE-150'
MAXIMUM LOT COVERAGE-25% STRUCTURE
60% PAVEMENT
MAXIMUM BUILDING HEIGHT (MAIN STRUCTURE)-35'
FRONT-60'
SIDE-30'
REAR-45'

PARCEL ZONING
ZONING CLASSIFICATION LIO
DIMENSIONAL REGULATIONS
MINIMUM LOT AREA-2 ACRES
MINIMUM FRONTAGE-150'
MAXIMUM LOT COVERAGE-30% STRUCTURE
MAXIMUM LOT COVERAGE-66% PAVEMENT
MAXIMUM BUILDING HEIGHT (MAIN STRUCTURE)-35'
FRONT-100'
SIDE-40'
REAR-50'

PROJECT BIOLOGIST
GARY BLAZEJEWSKI
ECOTONES, INC.
1130 TEN ROD ROAD C-205D
NORTH KINGSTOWN, RI 02852
TEL. & FAX: 401-294-1155

PROJECT SURVEYOR
JAMES J. REDDINGTON, JR.
ALPHA ASSOCIATES, LTD.
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818
TEL: 401-884-8506
FAX: 401-884-7747

PROPERTY OWNER
TMG VESPIA LANDING, LLC
427 MAIN STREET
EAST GREENWICH, RI 02818

PARCEL APPLICANT
THE MORRIS GROUP, LLC
427 MAIN STREET
EAST GREENWICH, RI 02818

FLOOD NOTE
REFER TO FEMA FIRM PANEL
NO. 445397 0002 B
MAP REVISED FEB 2, 1983

WETLAND NOTE
PARCEL AREA 9.8 AC±
WETLAND VERIFIED BY
RIDEM PERMIT #05-0253
A SERIES 760± L.F.
B SERIES 1260± L.F.
TOTAL 2020± L.F.



PROJECT
1600 SOUTH COUNTY OFFICE PARK
EAST GREENWICH
RHODE ISLAND
ASSESSORS PLAT 10C LOT 30

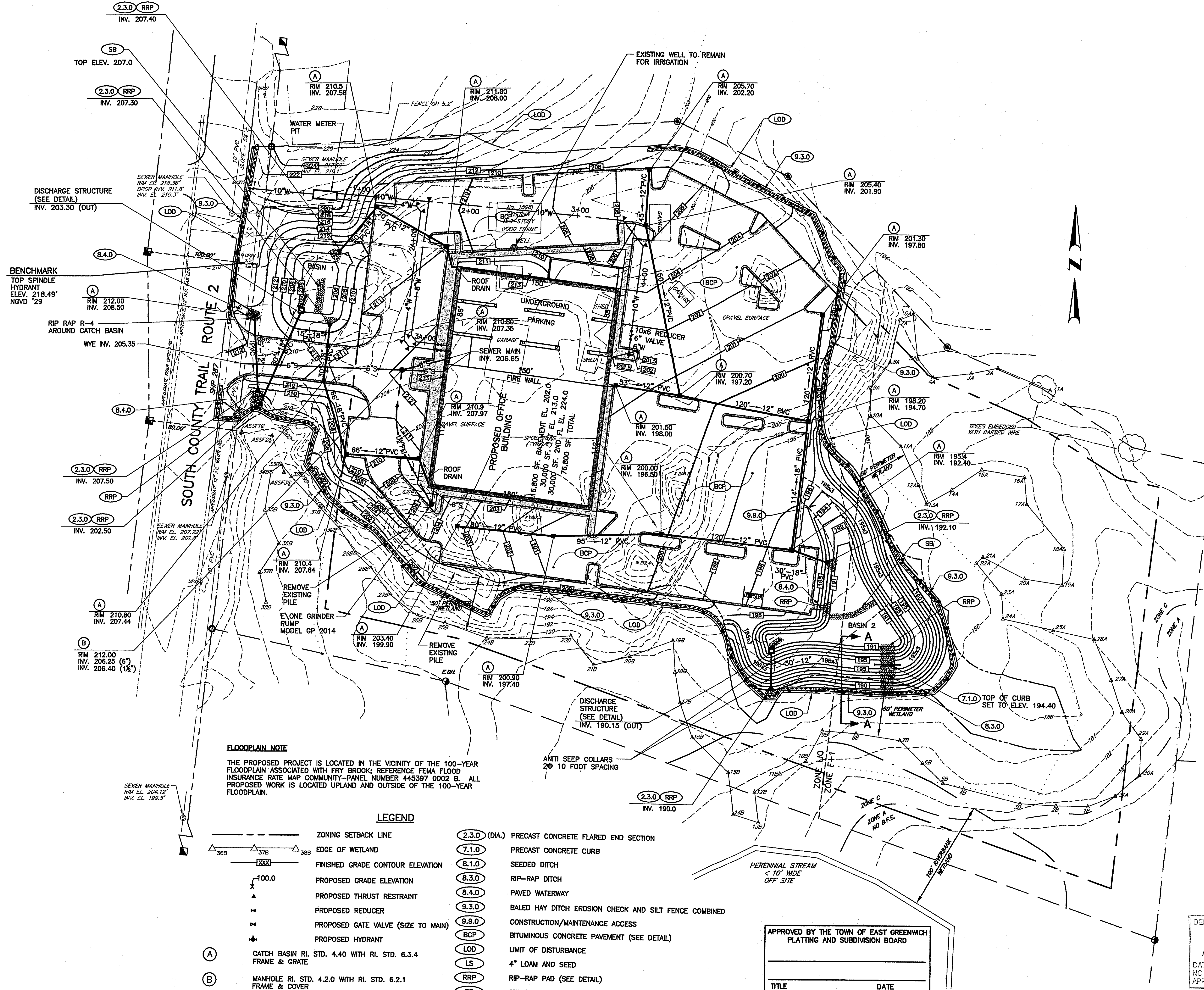
MORRIS GROUP LLC. CLIENT

GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

EXISTING CONDITIONS

DRAWING TITLE	EXISTING CONDITIONS		
NO.	DATE	REVISIONS	BY

PROJECT NO.: 1078
DATE: MAY 25, 2007
SCALE: 1" = 40'
DRAWN BY: LBD
CHECKED BY: TAR
DRAWING NUMBER
1
SHEET 1 OF 8



FLOODPLAIN NOTE
 THE PROPOSED PROJECT IS LOCATED IN THE VICINITY OF THE 100-YEAR FLOODPLAIN ASSOCIATED WITH FRY BROOK; REFERENCE FEMA FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 445397 0002 B. ALL PROPOSED WORK IS LOCATED UPLAND AND OUTSIDE OF THE 100-YEAR FLOODPLAIN.

- LEGEND**
- ZONING SETBACK LINE
 - △ 36B △ 37B △ 38B EDGE OF WETLAND
 - FINISHED GRADE CONTOUR ELEVATION
 - PROPOSED GRADE ELEVATION
 - ▲ PROPOSED THRUST RESTRAINT
 - ▬ PROPOSED REDUCER
 - ▬ PROPOSED GATE VALVE (SIZE TO MAIN)
 - ◆ PROPOSED HYDRANT
 - (A) CATCH BASIN RI. STD. 4.40 WITH RI. STD. 6.3.4 FRAME & GRATE
 - (B) MANHOLE RI. STD. 4.2.0 WITH RI. STD. 6.2.1 FRAME & COVER
 - (2.3.0 (DIA.)) PRECAST CONCRETE FLARED END SECTION
 - (7.1.0) PRECAST CONCRETE CURB
 - (8.1.0) SEEDED DITCH
 - (8.3.0) RIP-RAP DITCH
 - (8.4.0) PAVED WATERWAY
 - (9.3.0) BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
 - (9.9.0) CONSTRUCTION/MAINTENANCE ACCESS
 - (BCP) BITUMINOUS CONCRETE PAVEMENT (SEE DETAIL)
 - (LOD) LIMIT OF DISTURBANCE
 - (LS) 4" LOAM AND SEED
 - (RRP) RIP-RAP PAD (SEE DETAIL)
 - (SB) STONE BAFFLE

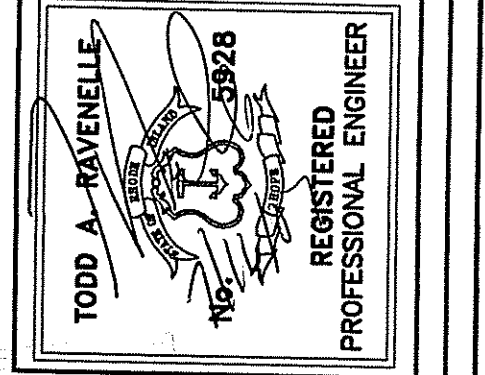
APPROVED BY THE TOWN OF EAST GREENWICH
 PLANNING AND SUBDIVISION BOARD

TITLE _____ DATE _____

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED AUG 08 2007 FILE # 07-0237
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Christopher D. Wencel

PROJECT
**1600 SOUTH COUNTY
 EAST GREENWICH
 RHODE ISLAND**
 ASSESSORS PLAT 10C LOT 30



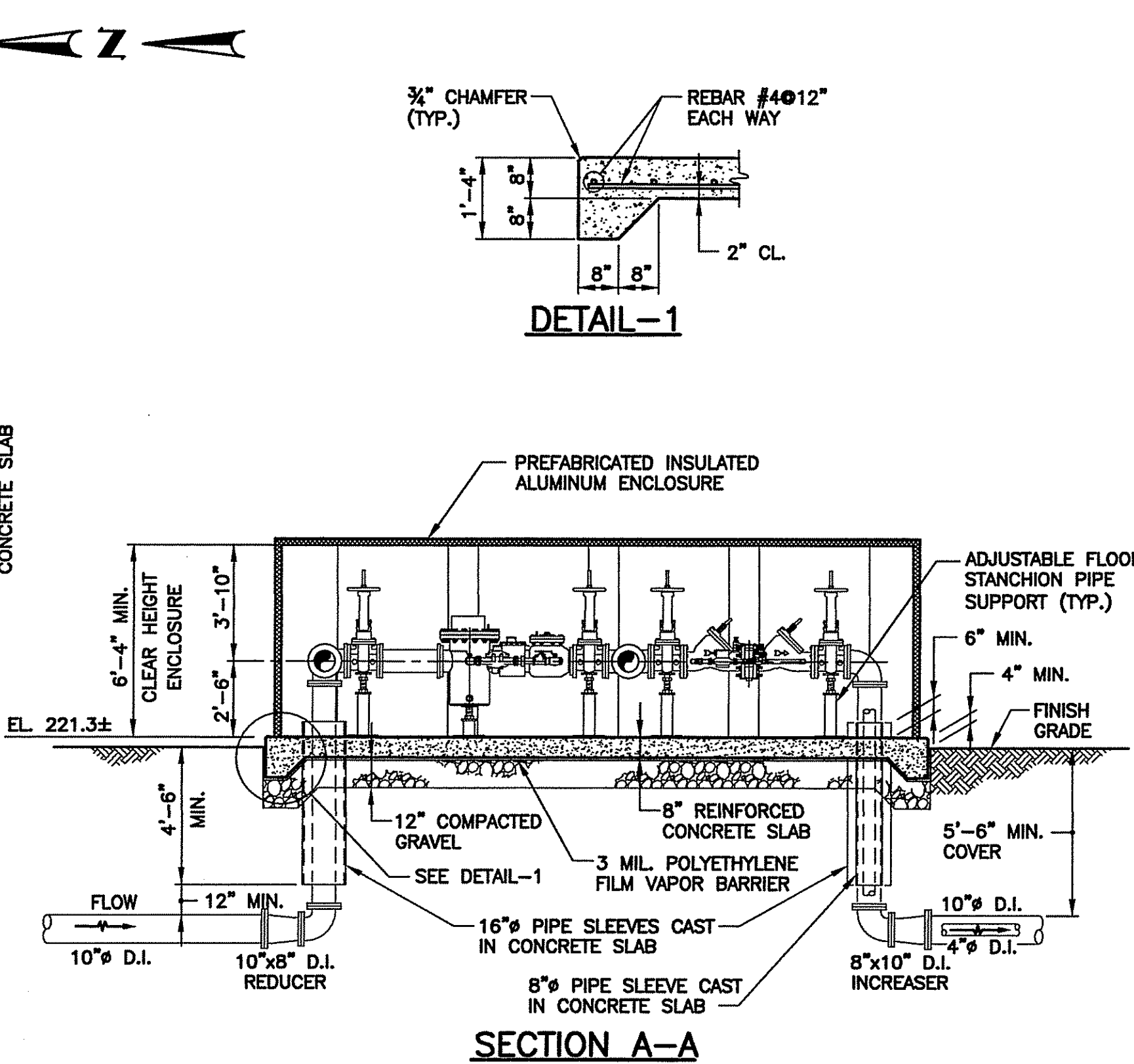
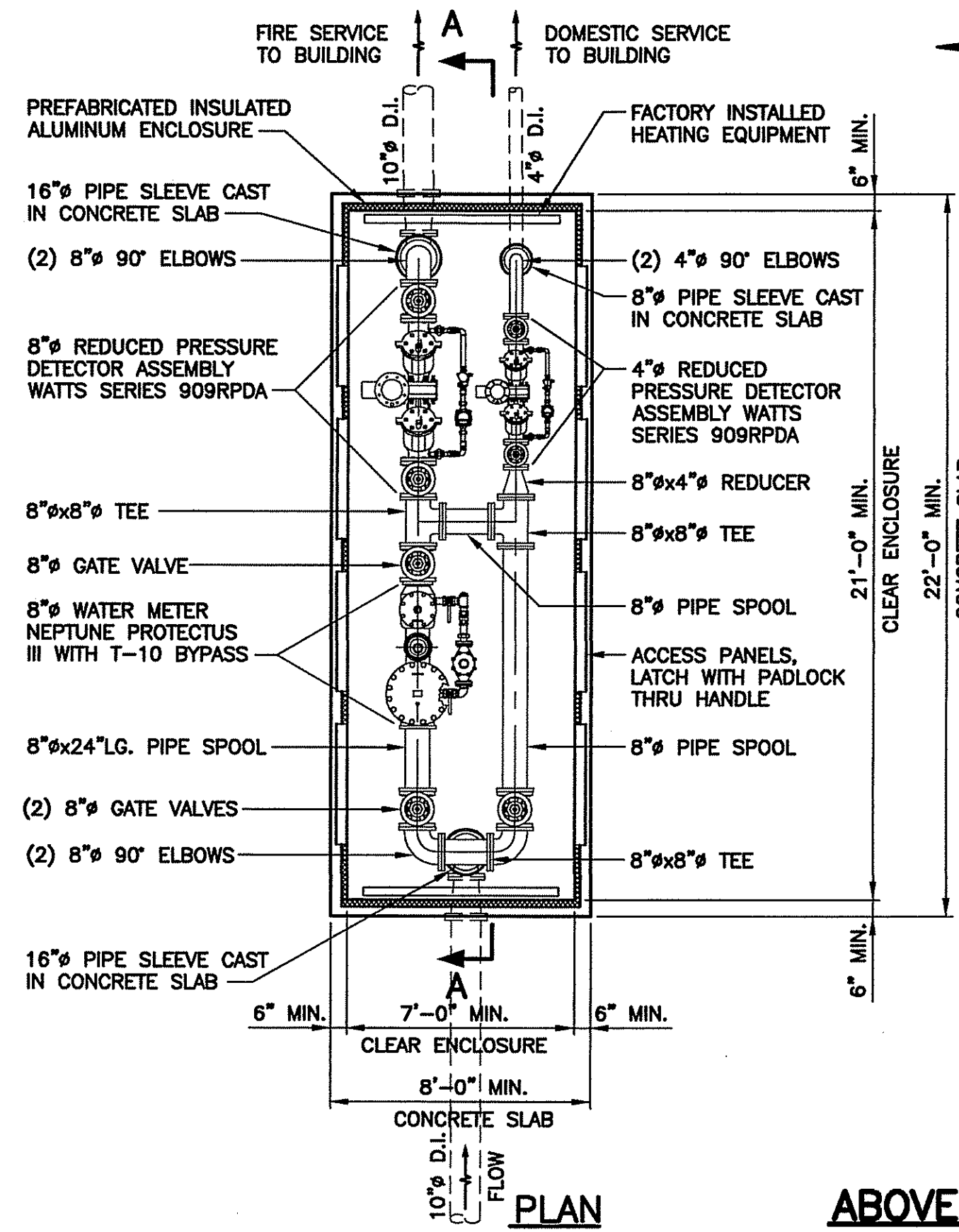
CLIENT
MORRIS GROUP LLC.

GORDON R. ARCHIBALD, INC.
Professional Engineers
 200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE
GRADING & UTILITY PLAN

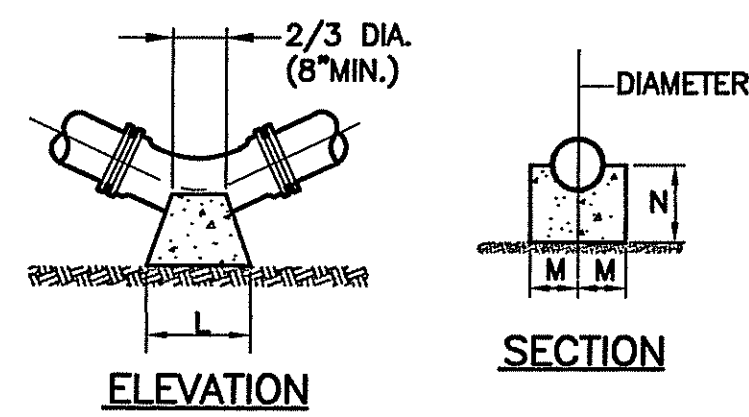
NO.	DATE	REVISIONS	BY

PROJECT NO.: 1078
 DATE: JULY 13, 2007
 SCALE: 1" = 40'
 DRAWN BY: LBD
 CHECKED BY: TAR
 DRAWING NUMBER
2
 SHEET 2 OF 8



ABOVE GROUND METER AND BACKFLOW CHAMBER DETAILS

N.T.S.

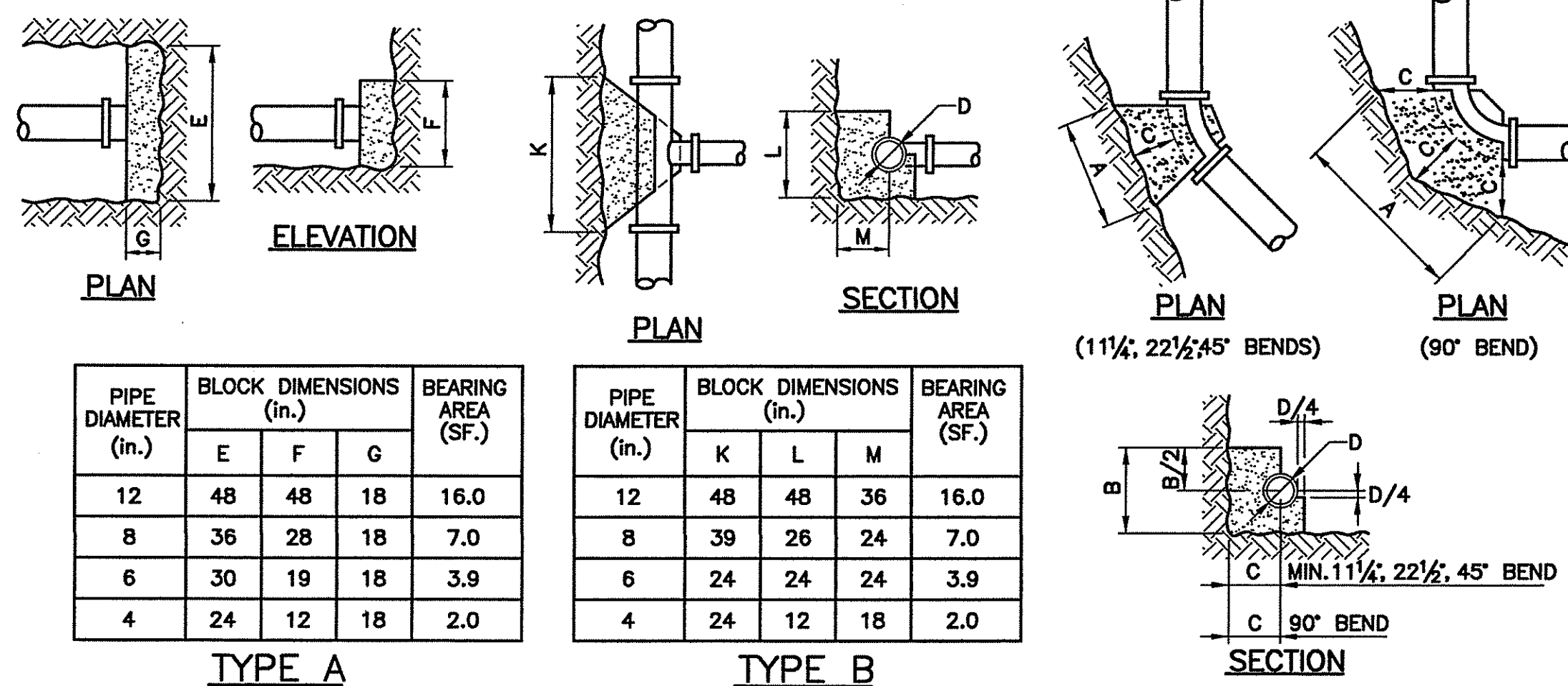


VERTICAL BENDS

- NOTES:**
1. ALL CONCRETE SHALL BE 3000 PSI @ 28 DAYS.
 2. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.
 3. ALL FORCE MAIN BENDS, TEES, MAIN TAPS, AND END CAPS SHALL REQUIRE A CONCRETE THRUST BLOCK.

BEND	VERTICAL BENDS PIPE SIZE-D (DIA.)		
	6"	8"	12"
1/8	L 1'-3"	M 1'-8"	N 2'-6"
1/16	L 9"	M 7"	N 1'-0"
1/32	L 6"	M 7"	N 7"

BEND	ANCHORAGES PIPE SIZE-D (DIA.)		
	6"	8"	12"
1/8	R 2'-6"	S 2'-6"	T 3'-0"
1/16	R 2'-0"	S 1'-9"	T 2'-6"
1/32	R 1'-6"	S 1'-6"	T 2'-0"



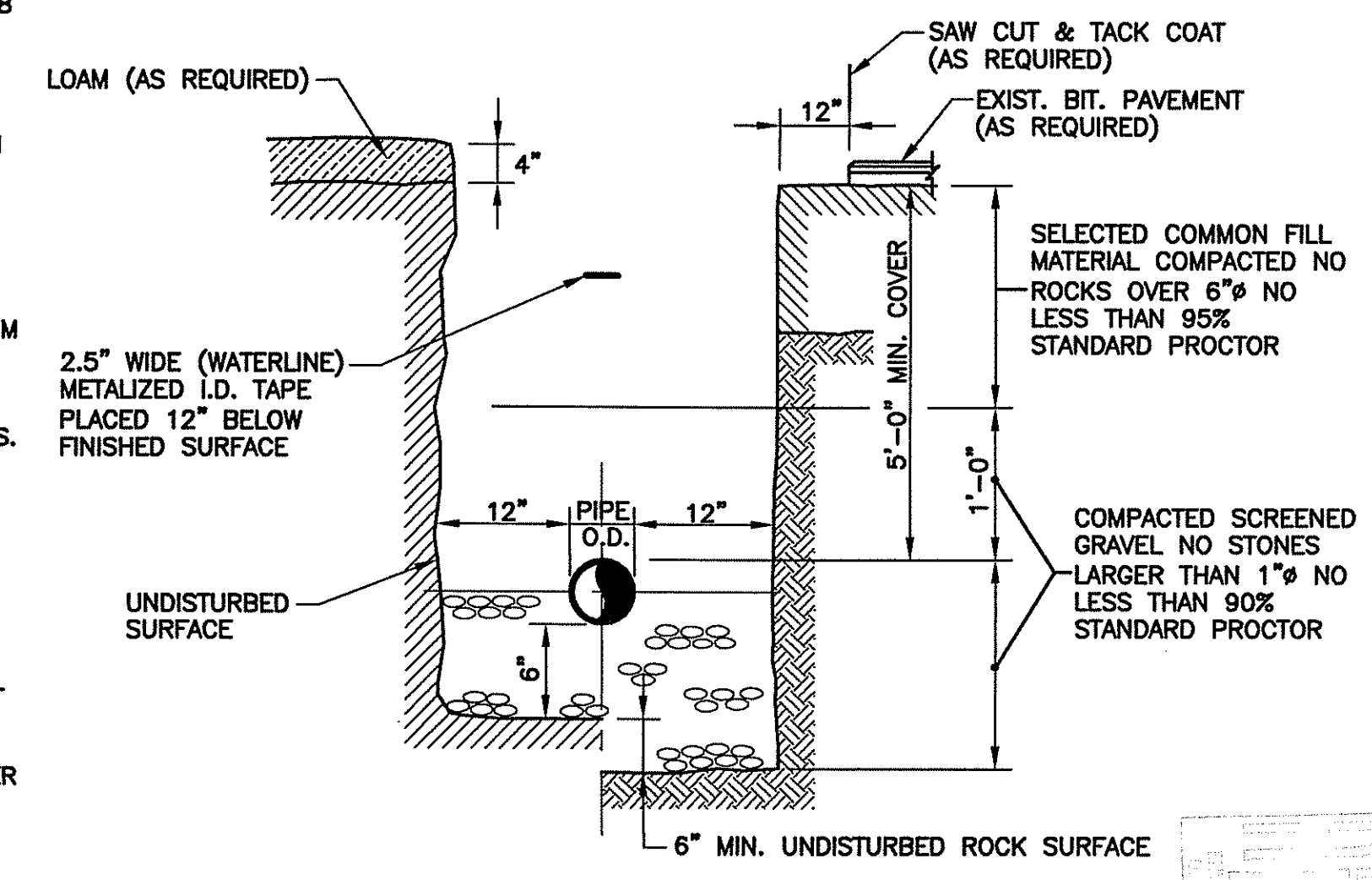
THRUST BLOCK DETAILS

N.T.S.

PIPE DIAMETER (in.)	BEND	BLOCK DIMENSIONS (in.)			BEARING AREA (SF.)
		A	B	C	
12	90°	60	48	36	21.0
	45°	42	42	36	11.7
	22 1/2°	36	24	24	6.0
8	90°	38	38	24	9.8
	45°	30	26	24	5.3
	22 1/2°	22	18	24	2.7
6	90°	30	27	18	5.5
	45°	18	18	18	3.0
	22 1/2°	18	18	18	2.2
4	90°	20	18	18	2.5
	45°	18	18	18	2.2
	22 1/2°	18	18	18	2.2

CHAMBER NOTES:

1. PROVIDE AND INSTALL MANUFACTURED, HEATED, INSULATED ENCLOSURE ABOVE GROUND. THE ROOF, WALLS AND ACCESS PANELS SHALL BE CONSTRUCTED OF MILL FINISH ALUMINUM, ASTM B209. MANUFACTURERS SHALL BE HOT BOX, HOT ROK, VALVE GUARD OR APPROVED EQUAL.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS. REBAR SHALL BE GRADE 60, CONFORMING TO AASHTO M31 (ASTM A615).
3. GRAVEL SUBBASE SHALL BE 12" THICK MINIMUM THROUGHOUT ENTIRE LIMITS OF SLAB AND SHALL BE COMPACTED IN 8" LIFTS TO A MINIMUM OF 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D1557. GRAVEL SUBBASE SHALL CONFORM TO THE RI STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION. 100 PERCENT OF GRAVEL SHALL PASS THE 1 1/2" SIEVE.
4. STRUCTURAL MEMBERS SHALL BE ALUMINUM, NO WOOD OR PARTICLE BOARD SHALL BE ALLOWED.
5. INSULATION SHALL BE POLYSOCYANURATE FOAM, SPRAY APPLIED, WITH A MINIMUM "R" FACTOR OF EIGHT (8).
6. MULTI-SECTIONAL ENCLOSURE SHALL FIT TOGETHER WITH OVERLAPPING TONGUE AND GROOVE JOINTS AND BE SECURED INTERNALLY WITH MECHANICAL FASTENERS.
7. THE ENCLOSURE SHALL BE SECURELY ATTACHED TO THE CONCRETE SLAB WITH ANCHOR BRACKETS INSTALLED ON THE INTERIOR OF THE ENCLOSURE.
8. ACCESS PANELS SHALL BE PROVIDED TO ALLOW EASY ACCESS FOR OPERATIONS AND MAINTENANCE WITHOUT REMOVAL OF THE ENCLOSURE.
9. DRAIN OPENINGS SHALL BE DESIGNED TO REMAIN CLOSED EXCEPT WHEN THE DEVICE IS DISCHARGING WATER. OPENINGS SHALL ACCOMMODATE MAXIMUM DISCHARGE OF THE BACKFLOW PREVENTION DEVICE AND SHALL PROTECT AGAINST THE INTRUSION OF WIND, DEBRIS AND ANIMALS.
10. HEATING EQUIPMENT SHALL BE FURNISHED AND DESIGNED BY THE MANUFACTURER OF THE ENCLOSURE, TO MAINTAIN AN INTERIOR TEMPERATURE OF +40 DEGREES F WITH AN EXTERIOR TEMPERATURE OF -30 DEGREES F AND A WIND VELOCITY OF 15 MPH. THE FACTORY ASSEMBLED HEATING EQUIPMENT SHALL BE ETL, UL, OR CSA CERTIFIED.
11. ELECTRICAL SERVICE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES. ELECTRIC POWER SOURCE FOR HEAT AND ACCESSORIES SHALL BE G.F.I. PROTECTED WITH 18" MINIMUM CLEARANCE FROM RECEPTACLE BASE TO TOP OF SLAB AND AT LEAST 6" ABOVE ANY WATER DISCHARGE POINT.
12. MOUNTING HARDWARE SHALL BE STAINLESS STEEL AND PROVIDED WITH THE ENCLOSURE BY THE MANUFACTURER.
13. ASSEMBLY FASTENERS SHALL BE STAINLESS STEEL OR ALUMINUM.
14. ANCHOR HARDWARE SHALL BE ADJUSTABLE UP TO 2" VERTICALLY TO ACCOMMODATE UNEVEN CONCRETE SLAB. ONCE THE ENCLOSURE HAS BEEN SET ON THE SLAB, USE A MASONRY BIT TO DRILL THROUGH BASE MOUNTING HOLES AND INSERT WEDGE ANCHORS AND BOLT FIRMLY TO CONCRETE.
15. INTERIOR PIPING AND VALVE JOINTS TO BE FLANGED.
16. EXTERIOR PIPING, VALVES AND FITTING JOINTS TO HAVE RESTRAINED JOINTS.



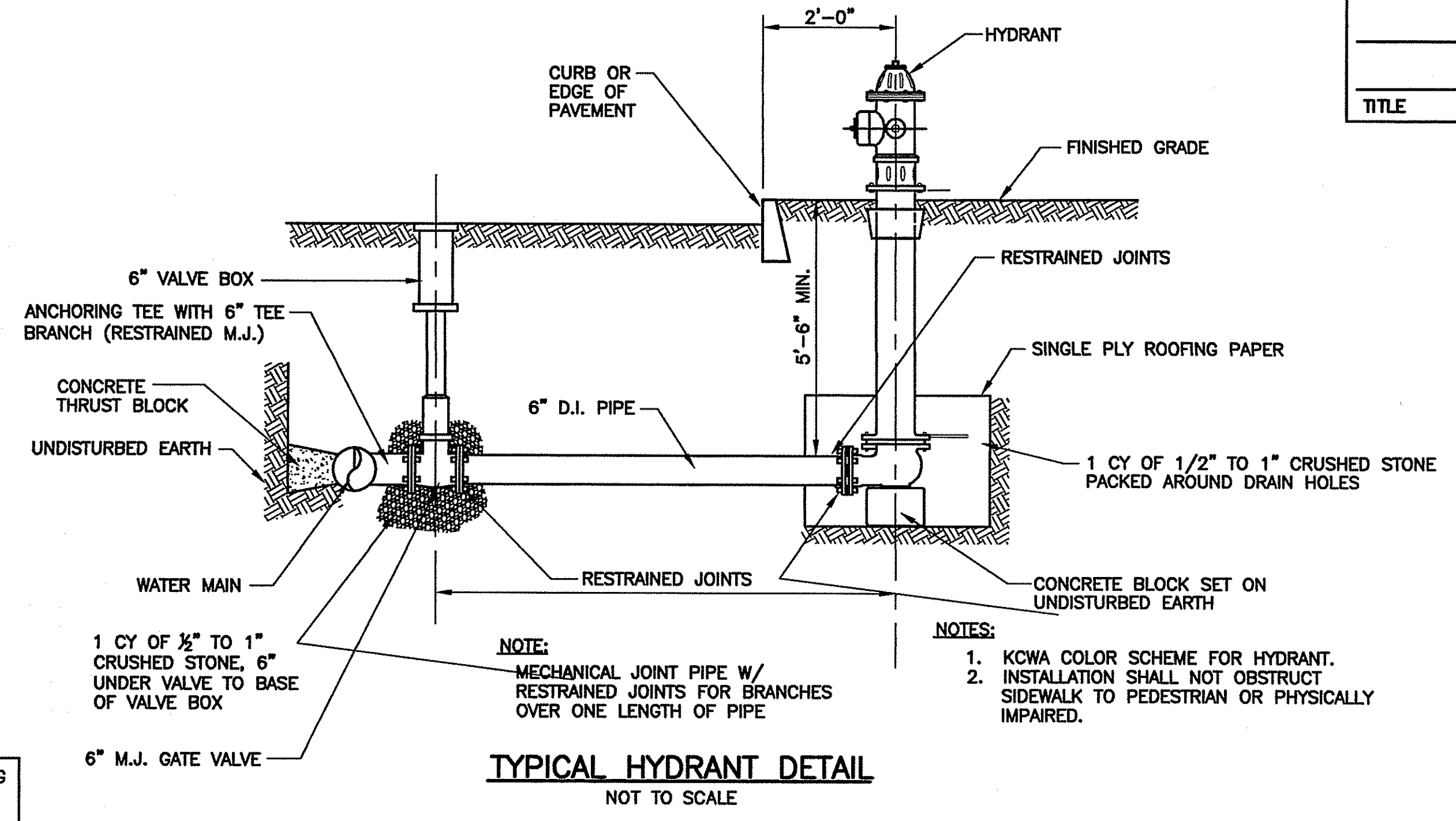
TYPICAL TRENCH DETAIL FOR WATER MAIN AND SERVICES.

NOT TO SCALE

- NOTES:**
1. THE MINIMUM BURY DEPTH FOR DOMESTIC WATER PIPE SHALL BE 5'-0" TO THE PIPE CROWN. FIRE MAIN SHALL BE 5'-6" TO THE PIPE CROWN.
 2. CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE AND IS RESPONSIBLE FOR REPAIR OF ALL UTILITIES DAMAGED OUTSIDE THE LIMIT OF DISTURBANCE.

APPROVED BY THE TOWN OF EAST GREENWICH
PLATTING AND SUBDIVISION BOARD

TITLE _____ DATE _____



TYPICAL HYDRANT DETAIL

NOT TO SCALE

- NOTES:**
1. KCWA COLOR SCHEME FOR HYDRANT.
 2. INSTALLATION SHALL NOT OBSTRUCT SIDEWALK TO PEDESTRIAN OR PHYSICALLY IMPAIRED.

SPECIAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE KENT COUNTY WATER AUTHORITY, LATEST EDITION.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION FOR ROAD AND BRIDGE CONSTRUCTION, WITH ALL ADDENDA.
3. ALL PIPE FITTINGS SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS "MEG-A-LUG" THRUST RESTRAINT WEDGE MANUFACTURED BY EBAA IRON INC. OR EQUAL.

PROJECT
1600 SOUTH COUNTY
EAST GREENWICH
RHODE ISLAND
ASSESSORS PLAT 10C LOT 30

CLIENT
MORRIS GROUP LLC.

GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE
DETAIL -- 1

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1078

DATE: MAY 25, 2007

SCALE: AS NOTED

DRAWN BY: LBD

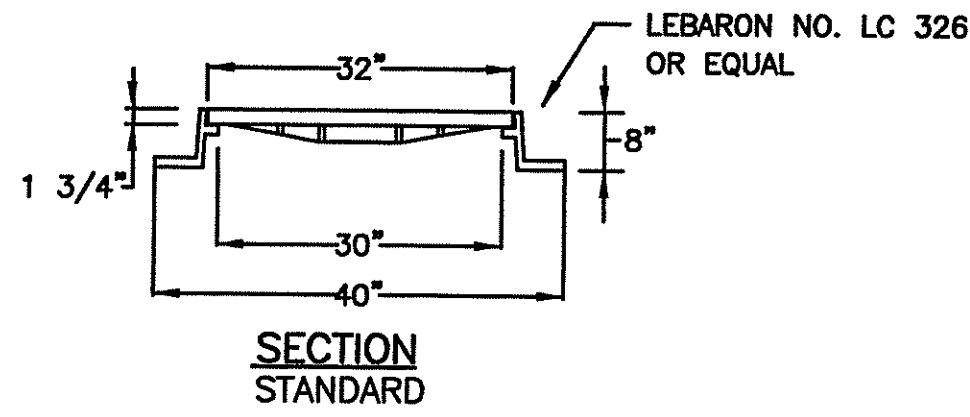
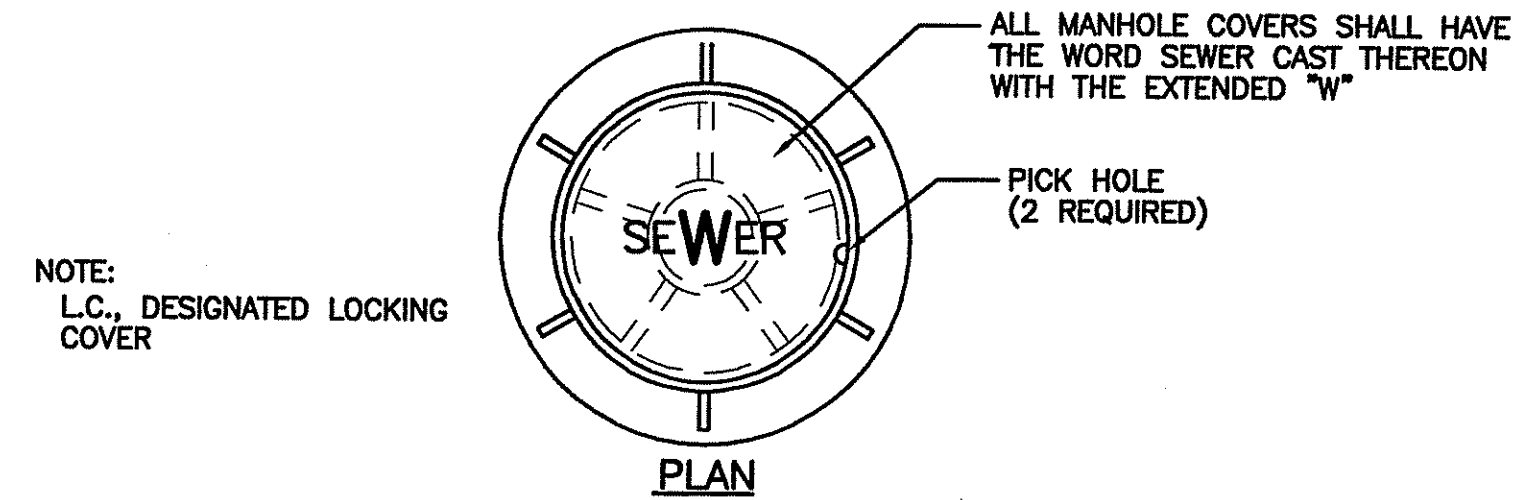
CHECKED BY: TAR

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **AUG 08 2007** FILE # **07-0237**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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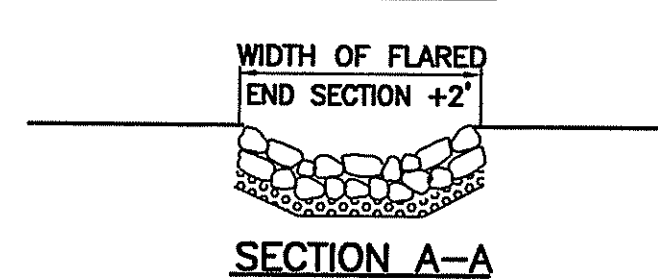
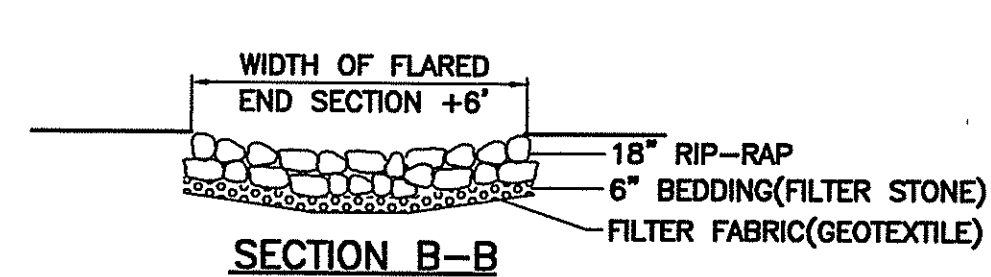
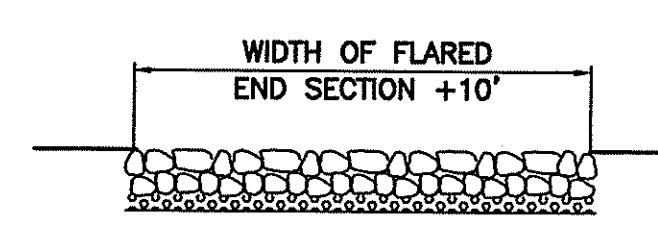
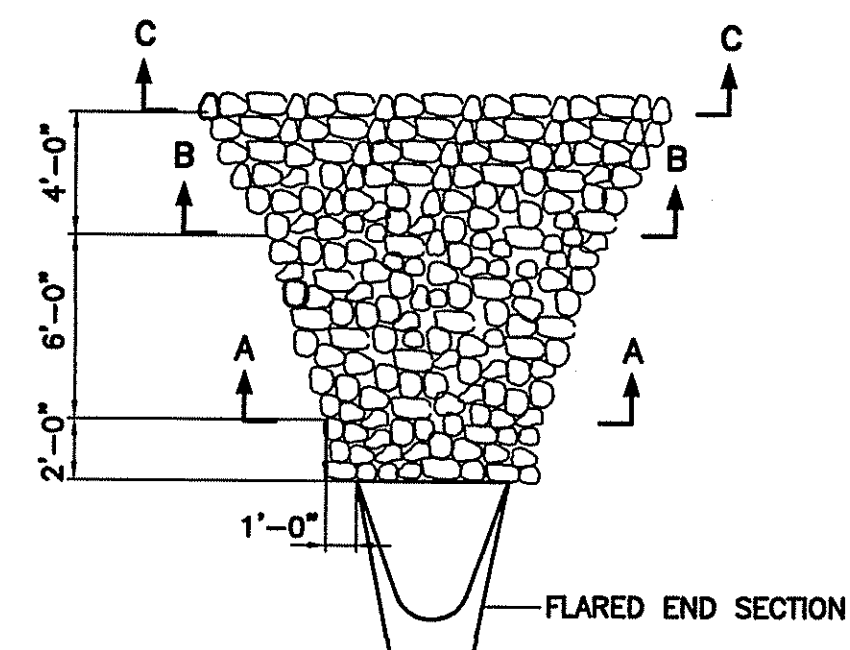
Matthew D. Wenzel

DRAWING NUMBER
3

SHEET 3 OF 8

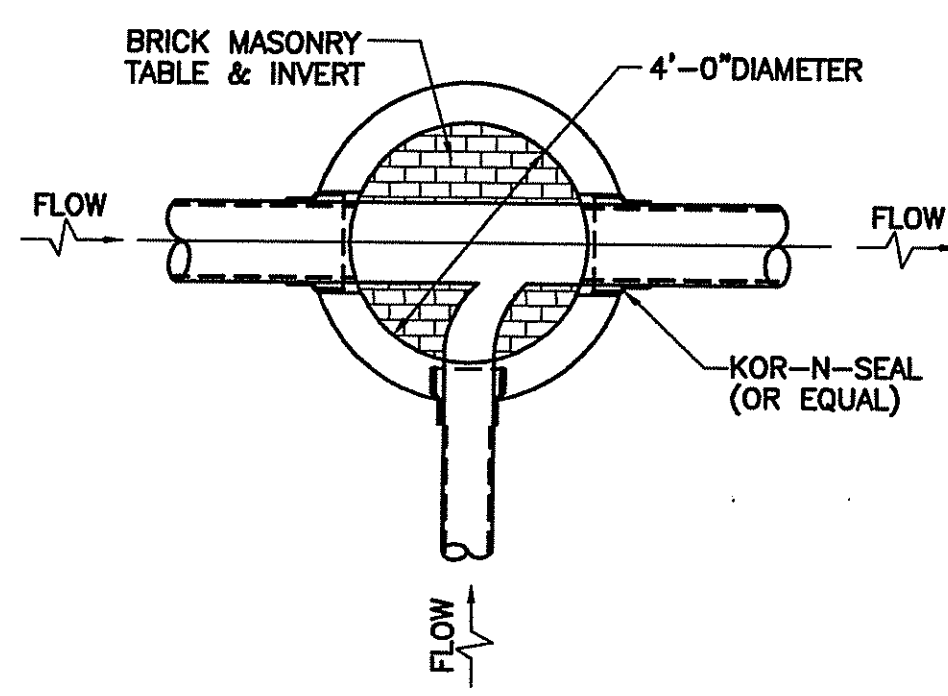


MANHOLE COVER DETAILS
N.T.S.

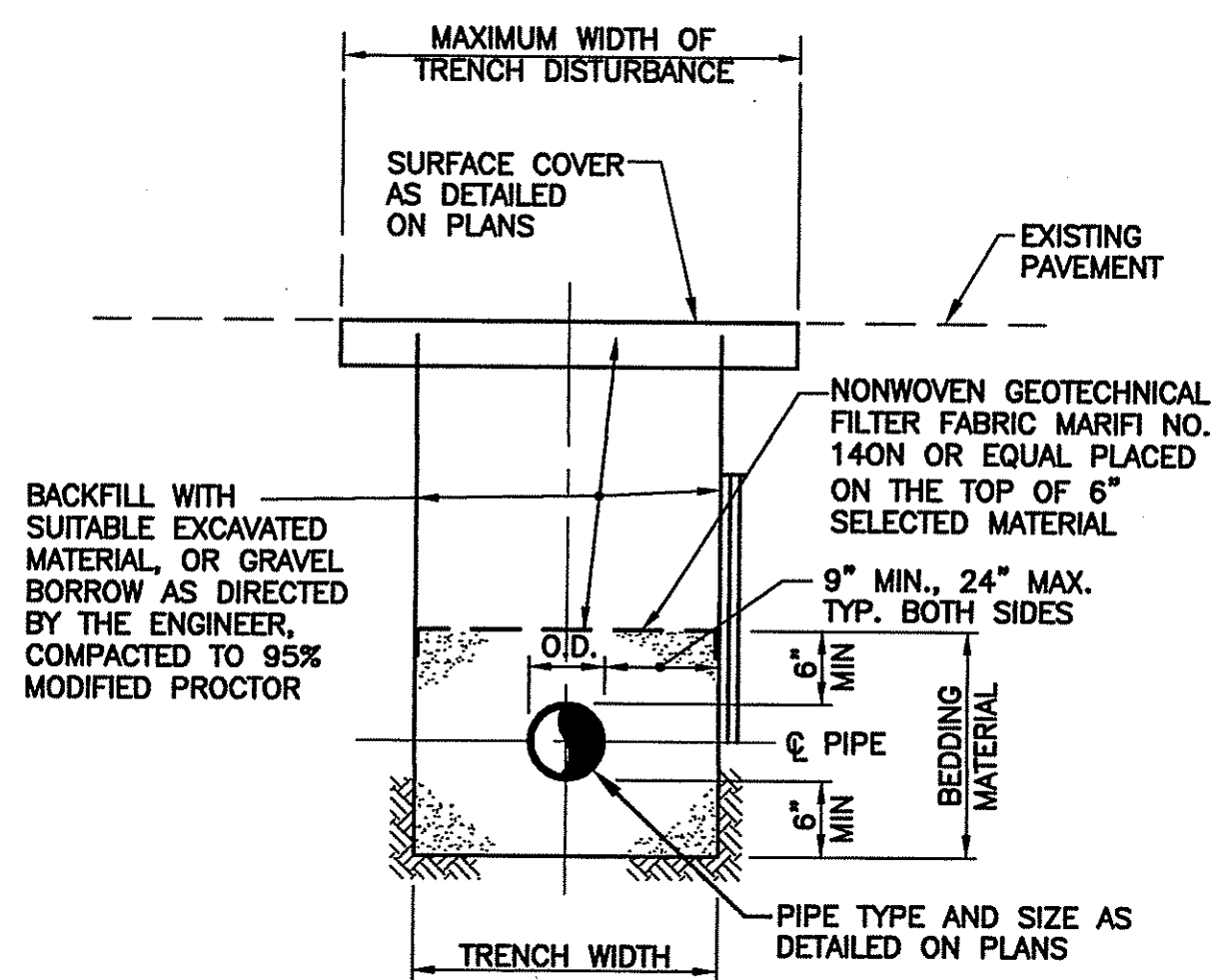


RIP-RAP PAD DETAIL (RRP)
N.T.S.

- NOTES:**
- RIP-RAP AND BEDDING SHALL BE IN ACCORDANCE WITH SECTION M.10 OF THE RI STD. SPECIFICATIONS FOR BRIDGE AND HIGHWAY. RIP-RAP SHALL BE MODIFIED NSA NO. R-4, BEDDING SHALL BE MODIFIED NSA NO. FS-2.
 - DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
 - UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.
 - RIP-RAP SHALL BE EXTENDED WITHIN BASINS AS SHOWN ON THE PLANS.



PLAN-INVERT TABLE
NOT TO SCALE



TYPICAL TRENCH DETAIL FOR DRAINAGE, SEWER LATERALS & SERVICE CONNECTIONS
NOT TO SCALE

- NOTES:**
- BEDDING MATERIAL FOR PIPE SHALL CONFORM TO M.01.04 OF THE RIDOT STANDARD SPECIFICATIONS.
 - CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE AND IS RESPONSIBLE FOR REPAIR OF ALL UTILITIES DAMAGED OUTSIDE THE LIMIT OF DISTURBANCE.

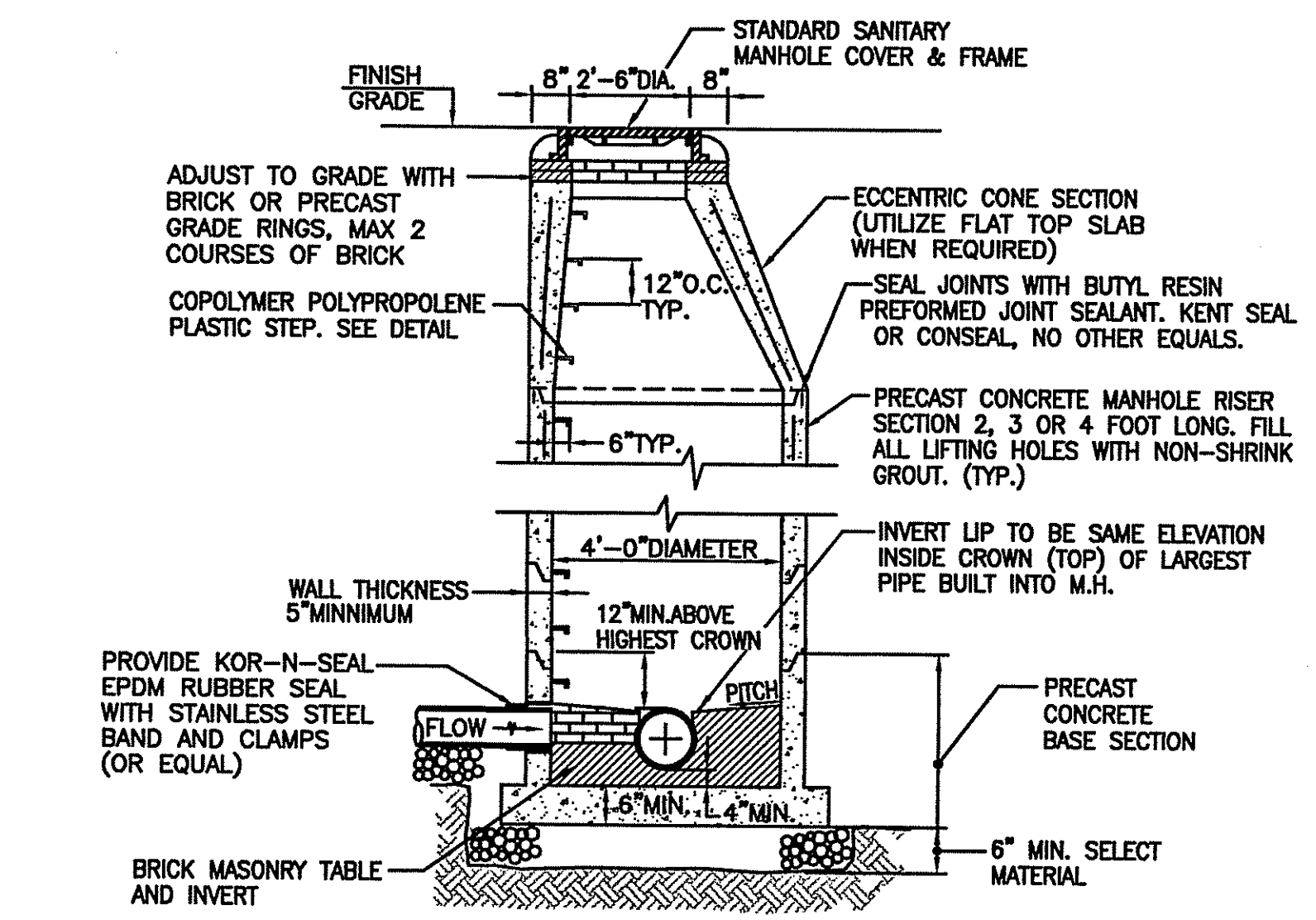
SUGGESTED SEQUENCE OF CONSTRUCTION FOR SEWER INSTALLATION

- PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL CONFIRM EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES WITHIN THE ALIGNMENT OF THE PROPOSED SEWER MAIN. THE CONTRACTOR SHALL ALSO CONFIRM THE INVERT ELEVATION OF THE EXISTING SEWER MAIN. THE CONTRACTOR SHALL REPORT ANY VARIATIONS OR CONFLICTS TO THE OWNER.
- PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL SUBMIT A DETAILED DESCRIPTION OF HIS INTENDED METHOD OF CONSTRUCTION, AND STATE ANY DIFFERENCES FROM THE APPROVED SEQUENCE OF CONSTRUCTION. THE CONTRACTOR'S PLAN WILL BE SUBMITTED TO THE TOWN OF EAST GREENWICH FOR APPROVAL.
- WORK SHALL BE SCHEDULED TO AVOID RAINFALL EVENTS WHICH COULD ADVERSELY INCREASE FLOW VOLUMES WITHIN THE SYSTEM DUE TO INCREASED INFILTRATION.
- PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL ENSURE THAT ALL MATERIALS REQUIRED FOR SEWER WORK ARE ON-SITE AND THAT ALL MATERIAL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE TOWN OF EAST GREENWICH.
- THE CONTRACTOR SHALL PROVIDE A TEMPORARY PUMP/ PIPE BYPASS TO DISCHARGE EXISTING SEWER FLOWS AROUND THE LIMIT OF SEWER REPLACEMENT. THE PUMP(S) SHALL BE CAPABLE OF PUMPING AT A RATE OF 1,200 GPM. THIS IS THE MAXIMUM FLOW RATE WITHIN THE EXISTING 10-INCH PIPE WITHOUT SURCHARGE AT A SLOPE OF 0.007 AND MANNING COEFFICIENT OF 0.009. ALL PIPE UTILIZED FOR BYPASS PUMPING SHALL BE SECURED, WATERTIGHT, AND DESIGNED TO PREVENT ANY DISCHARGE OF SEWER EFFLUENT OVER LAND.
- ONCE THE BYPASS PIPE IS IN OPERATION, THE CONTRACTOR SHALL PLUG THE SYSTEM PIPE UPSTREAM AND DOWNSTREAM TO ISOLATE THE PORTION OF PIPE TO BE REPLACED. AT THAT POINT THE CONTRACTOR SHALL REPLACE THE SECTION OF PIPE AND INSTALL THE NEW MANHOLE WITHIN 24 HOURS TO MINIMIZE BYPASS PUMPING.
- UPON COMPLETION OF THE PIPE AND MANHOLE, THE CONTRACTOR SHALL FLUSH THE NEW LINE OF DEBRIS, AND PERFORM AN AIR PRESSURE TEST ON THE NEW MANHOLE AND PIPE FOR ACCEPTANCE BY THE TOWN OF EAST GREENWICH. UPON APPROVAL, TEMPORARY PLUGS AND THE TEMPORARY BY-PASS SHALL BE REMOVED.
- THE OWNER SHALL PROVIDE A 24 HOUR WATCH ON THE BYPASS PUMPING OF THE SEWER MAIN.

CONSTRUCTION OF ON-SITE SEWER

- CONSTRUCTION OF THE "ON-SITE" SANITARY SEWER SHALL CONFORM TO THE TOWN OF EAST GREENWICH REQUIREMENTS.
- PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL ENSURE THAT ALL MATERIALS REQUIRED FOR SEWER WORK ARE ON-SITE AND THAT ALL MATERIALS ARE IN CONFORMANCE WITH THE TOWN OF EAST GREENWICH.
- CONTRACTOR MUST PROVIDE A MINIMUM OF 24-HOUR NOTICE TO THE TOWN OF EAST GREENWICH DPW BEFORE BEGINNING CONSTRUCTION OF ON-SITE SANITARY SEWER.
- UPON COMPLETION OF THE SEWER PIPE AND MANHOLES, THE CONTRACTOR SHALL FLUSH THE NEW LINE OF DEBRIS AND PERFORM AN AIR PRESSURE AND VACUUM TEST ON THE NEW PIPE AND MANHOLES IN ACCORDANCE WITH TOWN OF EAST GREENWICH REQUIREMENTS. SUBMIT A COPY OF TEST RESULTS TO TOWN OF EAST GREENWICH DPW FOR ACCEPTANCE.
- SEWER AS-BUILT PLAN SHALL BE SUBMITTED TO THE TOWN OF EAST GREENWICH DPW UPON COMPLETION OF SEWER CONSTRUCTION.

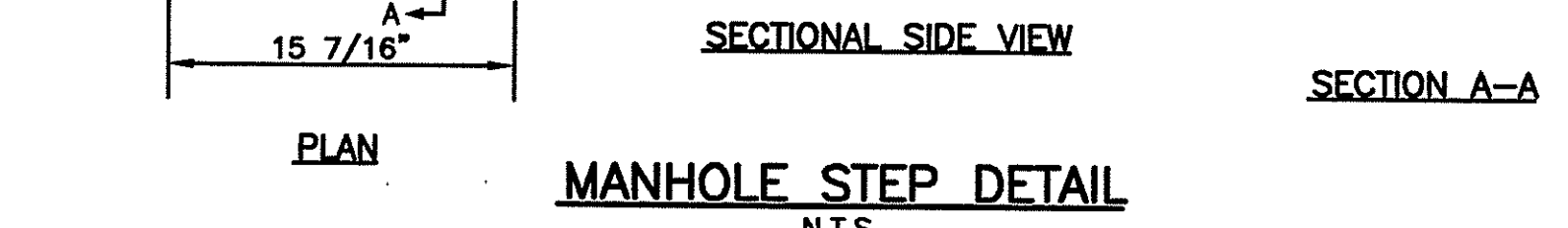
SPECIAL NOTES:
ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE TOWN OF EAST GREENWICH SEWER DEPARTMENT.



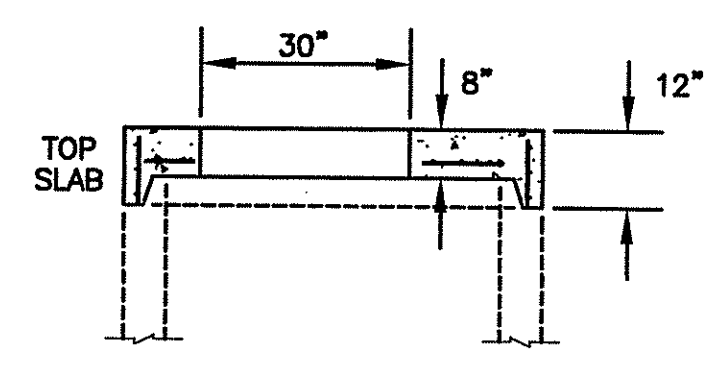
SANITARY SEWER MANHOLE DETAIL
NOT TO SCALE

EROSION CONTROL NOTES:

- SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. SEDIMENTATION DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL PREVENT THE DISCHARGE AND MIGRATION OF SEDIMENT FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DEWATERING OPERATION DISCHARGES.
- 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 15TH SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- TEMPORARY TREATMENT OF EXPOSED SURFACES SHALL CONSIST OF HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE MESH, FIBERGLASS NETTING, EXCELSIOR MATTING).
- HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000 - 4,000 LBS./ACRE.
- ALL HAY BALES, SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING MAY BE USED TO MINIMIZE EROSION.
- THE CONTRACTOR MUST REPAIR AND/OR RE-SEED ANY AREA THAT DOES NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST - OCTOBER 15TH.
- SLOPE SURFACES 3:1 OR STEEPER WHICH ARE DISTRIBUTED DURING CONSTRUCTION SHALL BE COVERED WITH JUTE MESH OR EXCELSIOR MATTING TO AID IN STABILIZING THE SLOPES AND PREVENTING EROSION.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY BY THE CONTRACTOR.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL CLEAN AND FLUSH ALL CATCH BASINS, PUMPING SYSTEMS AND DISCHARGE STRUCTURES IMPACTED BY SEDIMENTATION FROM DEWATERING DISCHARGES.
- BALED HAY EROSION CHECKS SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS TO TRAP SEDIMENT FROM ENTERING THE SYSTEM. CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE ADJUTTING GROUND SURFACES ARE STABILIZED.
- WHERE BALED HAY EROSION CHECKS AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF WORK AT THAT SITE OR AS DIRECTED BY THE OWNER IN ORDER TO PREVENT CLOGGING OF THE INLET.
- CATCH BASIN RIMS SHALL BE 0.10' LOWER THAN GUTTER GRADE.



MANHOLE STEP DETAIL
N.T.S.



FLAT SLAB TOP DETAIL
N.T.S.

GENERAL NOTES:

- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION ACTIVITIES WITHIN THE LIMIT OF WORK AREA INDICATED ON THE PLANS.
- ALL WORK SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- THE CONTRACTOR SHALL REMOVE AND CLEAR ALL ABANDONED STRUCTURES AND MATERIALS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES UNLESS SUCH STRUCTURES ARE TO REMAIN PER THE OWNER. ALL DISTURBED SLOPES AND SURFACES PRONE TO EROSION SHALL BE STABILIZED TO THE SATISFACTION OF THE OWNER.
- LOAM FOR SEEDING SHALL BE 4-INCHES DEPTH, AND SHALL CONSIST OF SCREENED LOOSE, FRIABLE, FINE SANDY LOAM OR SANDY LOAM FREE OF SUBSOIL, REFUSE, STUMPS, ROOTS, ROCKS, COBBLES, STONES, BRUSH, NOXIOUS WEEDS, LITTER AND OTHER MATERIALS WHICH ARE LARGER THAN 1-INCH IN ANY DIMENSION AND WHICH WILL PREVENT THE FORMATION OF A SUITABLE SEED BED. ORGANIC MATTER SHALL CONSTITUTE NOT LESS THAN 5-PERCENT NOR MORE THAN 20-PERCENT OF THE LOAM AS DETERMINED BY LOSS-ON-IGNITION OF OVEN DRIED SAMPLES. THE LOAM SHALL HAVE AN ACIDITY RANGE OF 5.5 pH TO 7.6 pH.
- PERMANENT SEEDING SHALL BE RESIDENTIAL SEED MIX OR SLOPE MIX. RESIDENTIAL SEED MIX SHALL BE USED ADJACENT TO LAWN AREAS OR SIDEWALKS, OR AREAS TO BE MAINTAINED. SLOPE MIX SHALL BE USED ON SLOPES GREATER THAN 3:1.

RESIDENTIAL MIX	% BY WEIGHT	PERCENT BY VOLUME
CHEWINGS FESCUE IMPROVED VARIETIES	30	85
KENTUCKY BLUEGRASS 98/90	30	90
PERENNIAL RYEGRASS IMPROVED VARIETIES	40	90

SLOPE MIX	% BY WEIGHT	PERCENT BY VOLUME
CREeping RED FESCUE IMPROVED VARIETIES	70	85
PERENNIAL RYEGRASS IMPROVED VARIETIES	15	90
BIRDSFOOT TREFLOIL (LOTUS CORNICULATA)	15	78*

SEEDING RATE: 150 LBS. PER ACRE

* INCLUDES UP TO 20% HARDSEED.

6. THE DETENTION BASIN SHALL BE SEEDED WITH EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. OF 820 WEST STREET, AMHERST, MASSACHUSETTS. THIS SEED CONTAINS THE FOLLOWING SPECIES: SWITCHGRASS (PANICUM VIRGATUM), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), CREEPING RED FESCUE (FESTUCA RUBRA), FOX SEDGE (CAREX VULPINOIDEA), CREEPING BENTGRASS (AGROSTIS STOLONIFERA), SOFT RUSH (JUNCUS EFFUSUS), NEW ENGLAND ASTER (ASTER NOVAE-ANGIAE), GRASS-LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), NODDING BUR MARIGOLD (BIDENS CERNUA), GREEN BULRUSH (SCIRPUS ATROVIRENS), JOE-PYE WEED (EUPATORIUM MACULATUM), BONESET (EUPATORIUM PERFORIATUM), AND BLUE VERVAIN (VERBENA HASTATA).

- THE DETENTION BASIN SHALL BE SEEDED WITH EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. OF 820 WEST STREET, AMHERST, MASSACHUSETTS. THIS SEED CONTAINS THE FOLLOWING SPECIES: SWITCHGRASS (PANICUM VIRGATUM), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), CREEPING RED FESCUE (FESTUCA RUBRA), FOX SEDGE (CAREX VULPINOIDEA), CREEPING BENTGRASS (AGROSTIS STOLONIFERA), SOFT RUSH (JUNCUS EFFUSUS), NEW ENGLAND ASTER (ASTER NOVAE-ANGIAE), GRASS-LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), NODDING BUR MARIGOLD (BIDENS CERNUA), GREEN BULRUSH (SCIRPUS ATROVIRENS), JOE-PYE WEED (EUPATORIUM MACULATUM), BONESET (EUPATORIUM PERFORIATUM), AND BLUE VERVAIN (VERBENA HASTATA).
- FINAL PAVEMENT MARKINGS AND STRIPING SHALL CONSIST OF WATERBORNE PAVEMENT MARKINGS IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCAVATED BITUMINOUS AND CONCRETE PAVEMENT, CURB, AND SIDEWALK.
- THE CONTRACTOR SHALL STRIP ALL ORGANIC AND UNSUITABLE FILL MATERIALS FROM BELOW ALL PROPOSED ROADWAYS, PARKING AREAS, CURBING, STRUCTURES, AND EMBANKMENTS.
- COMMON BORROW SHALL CONFORM TO SECTION M.01.01 OF THE RIDOT STANDARD SPECIFICATIONS AND SHALL BE UTILIZED FOR FILL AND EMBANKMENTS OTHERWISE INDICATED.
- ALL FILLS AND EMBANKMENTS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR AND SHALL BE IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS.

APPROVED BY THE TOWN OF EAST GREENWICH PLATTING AND SUBDIVISION BOARD
TITLE _____ DATE _____

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 08 2007 FILE # 07-0237
(NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.)

PROJECT
**1600 SOUTH COUNTY
EAST GREENWICH
RHODE ISLAND**
ASSESSORS PLAT 10C LOT 30

TODD A. BAYNELE
REGISTERED PROFESSIONAL ENGINEER

CLIENT
MORRIS GROUP LLC.
GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE
DETAIL - 2

NO.	DATE	REVISIONS

PROJECT NO.: 1078

DATE: MAY 25, 2007

SCALE: AS NOTED

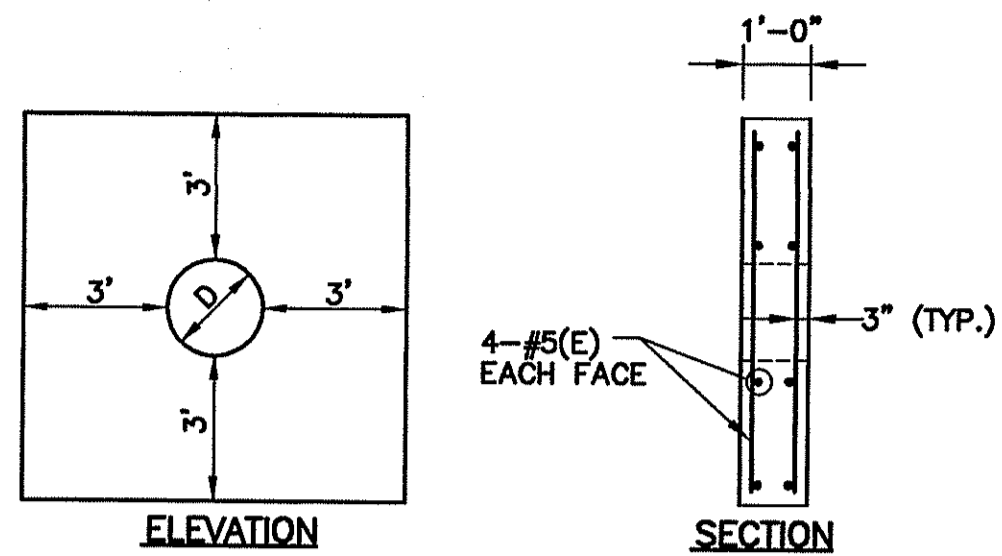
DRAWN BY: LBD

CHECKED BY: TAR

DRAWING NUMBER

4

SHEET 4 OF 8

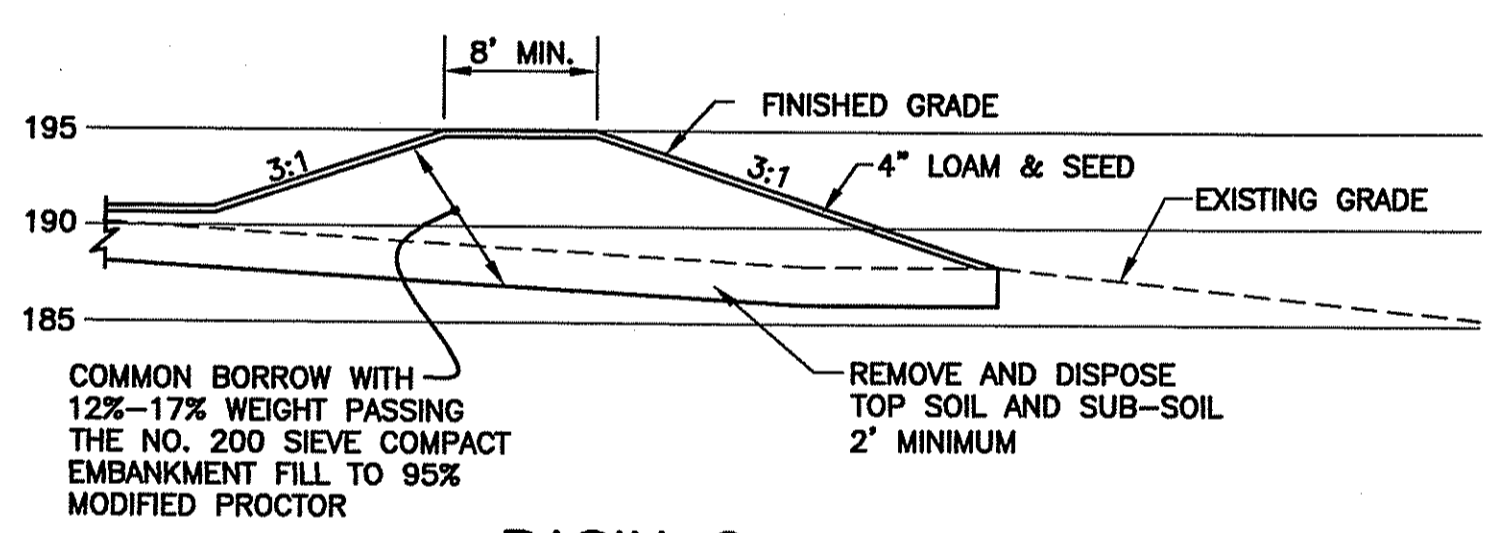
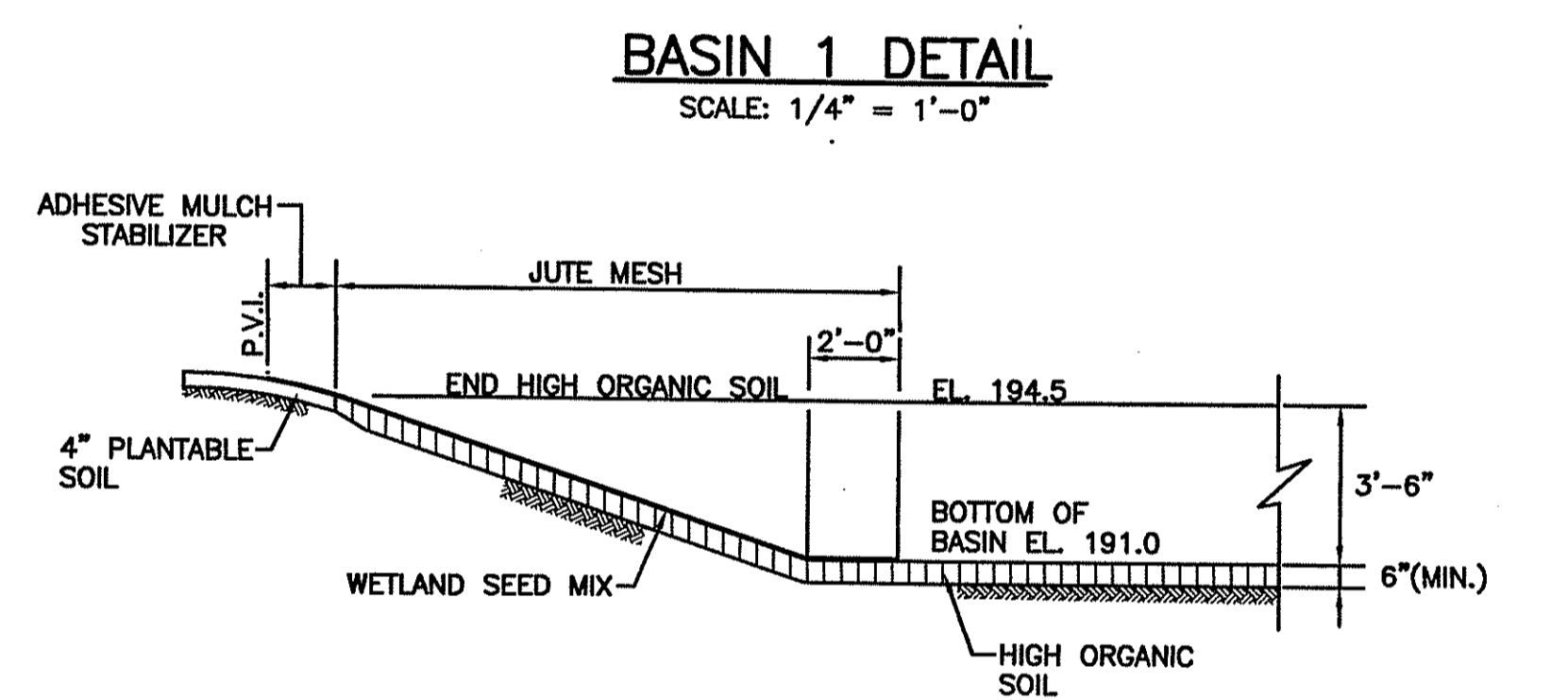
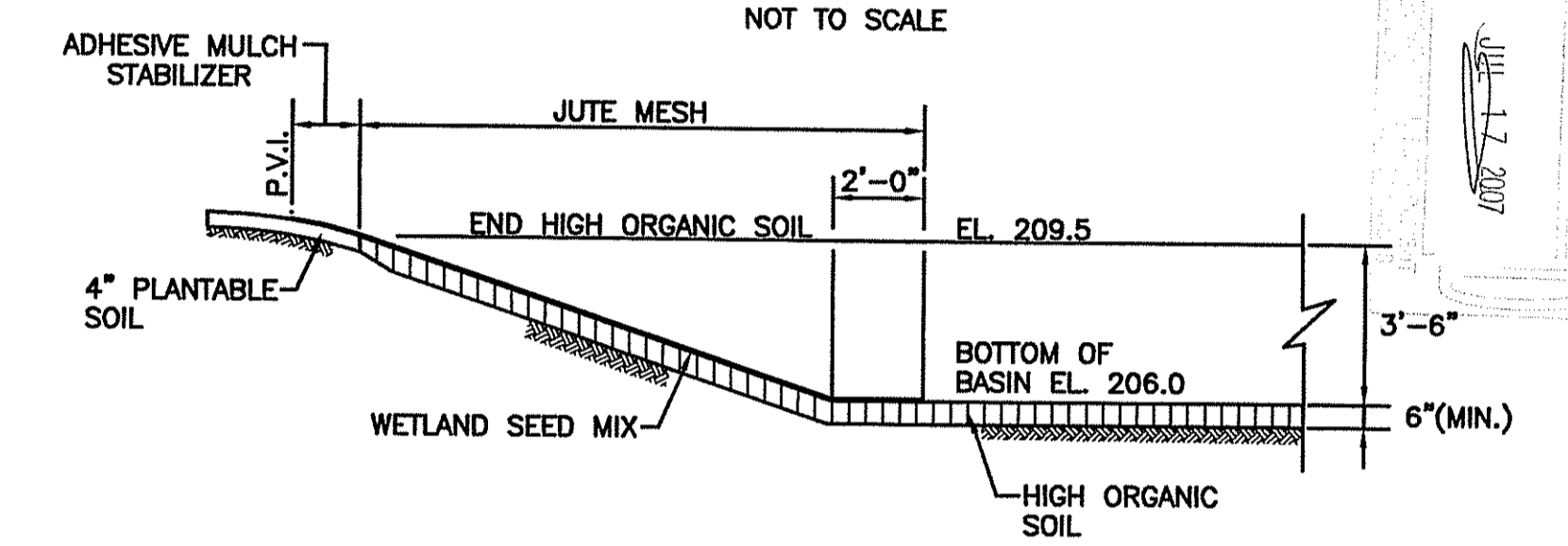
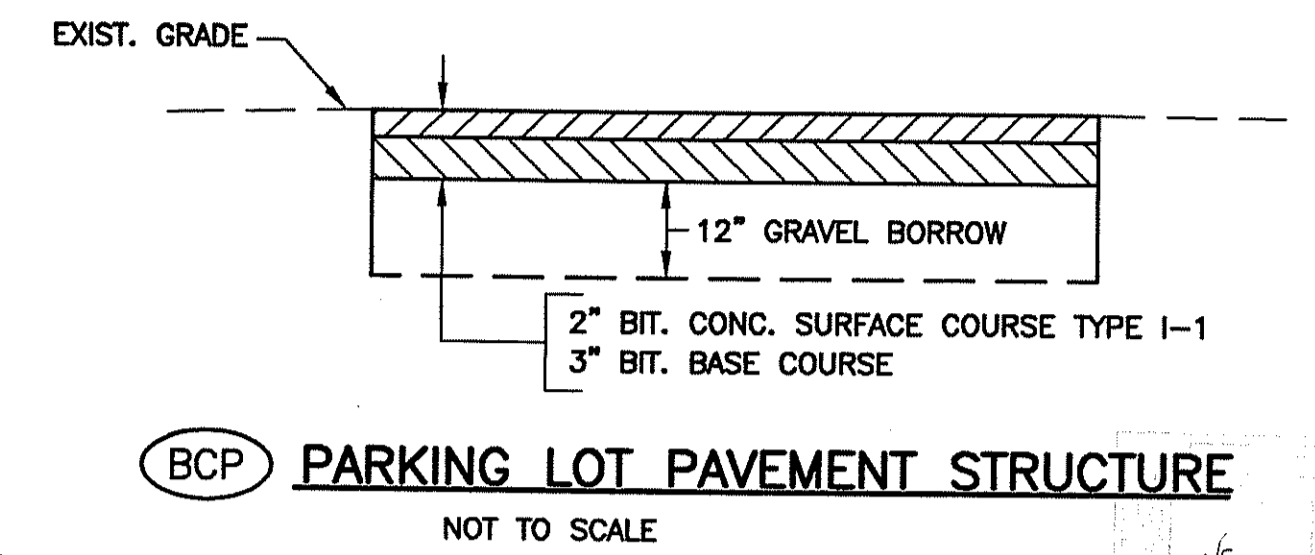
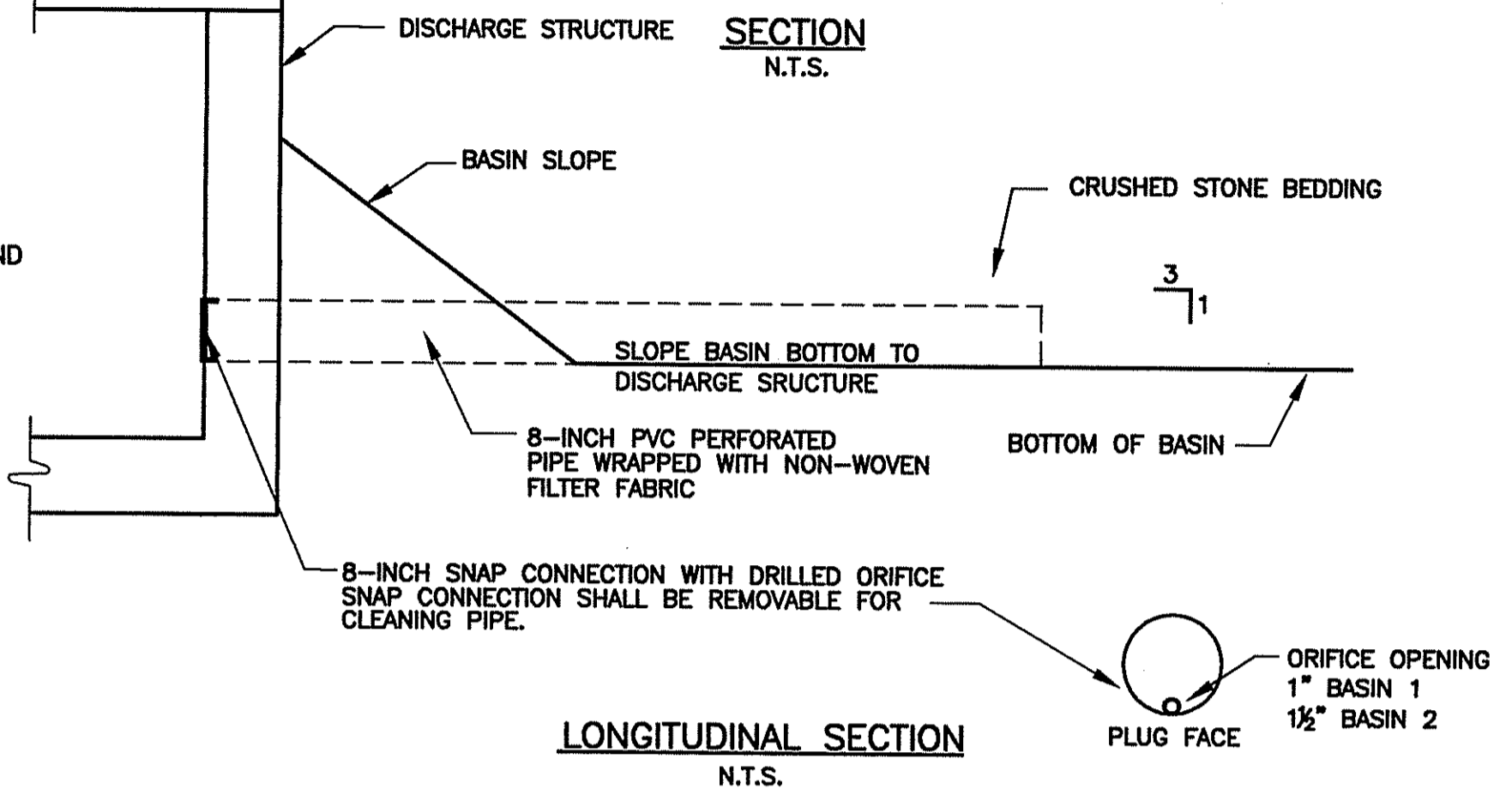
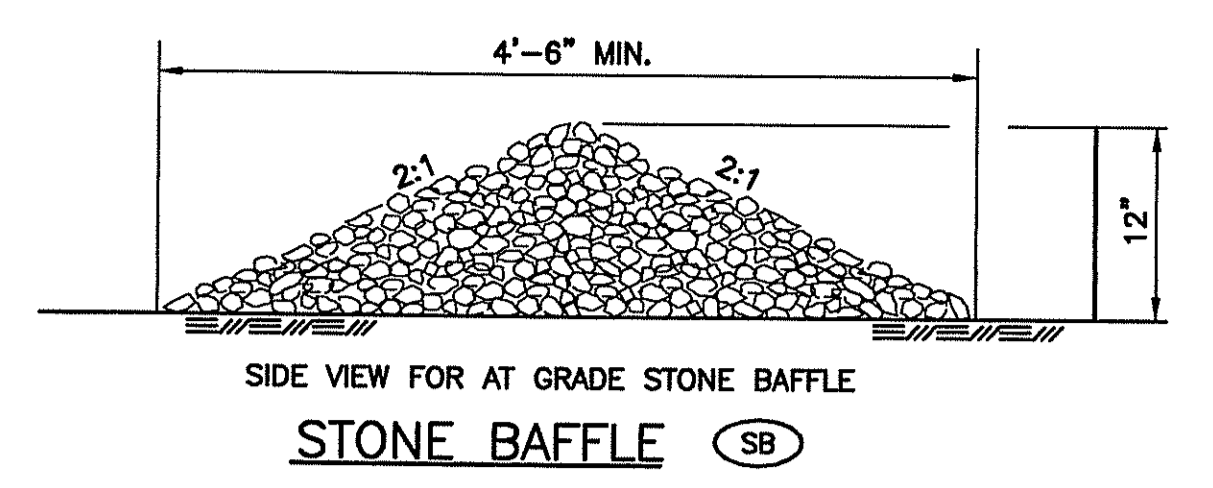
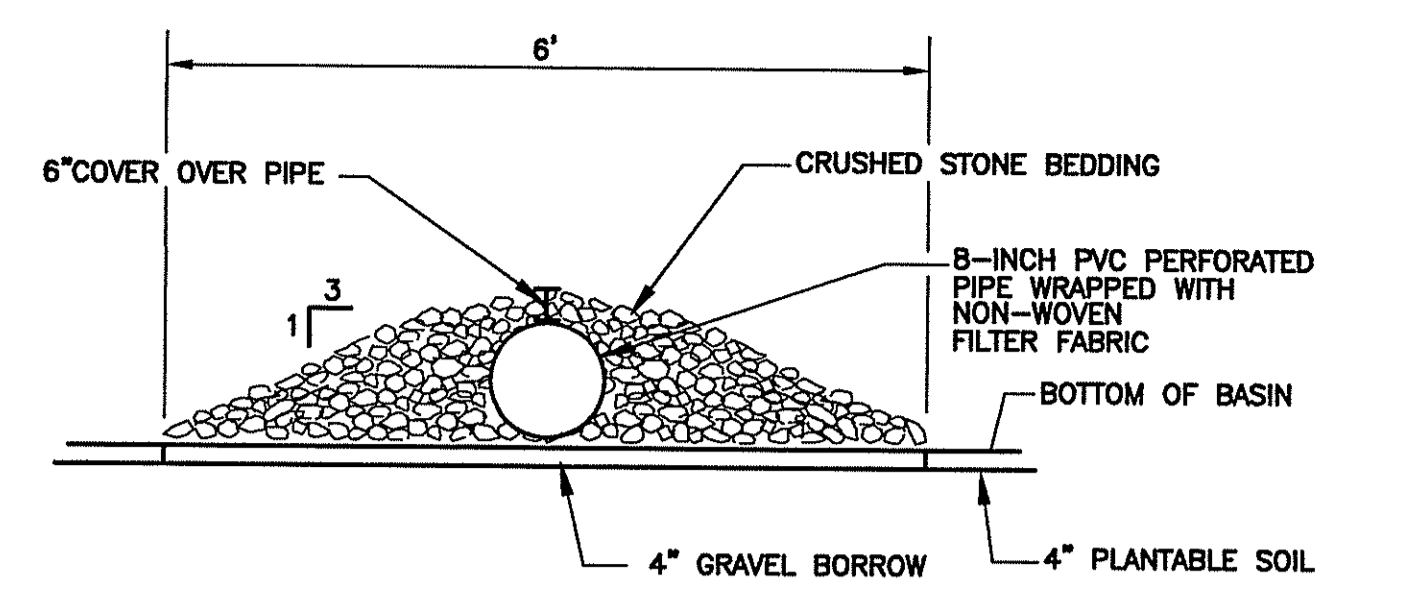


NOTE:
1. CONCRETE FOR THE ANTI-SEEP COLLAR SHALL BE CLASS A(AE) AND SHALL CONFORM TO SECTION 601 OF THE STANDARD SPECIFICATIONS.

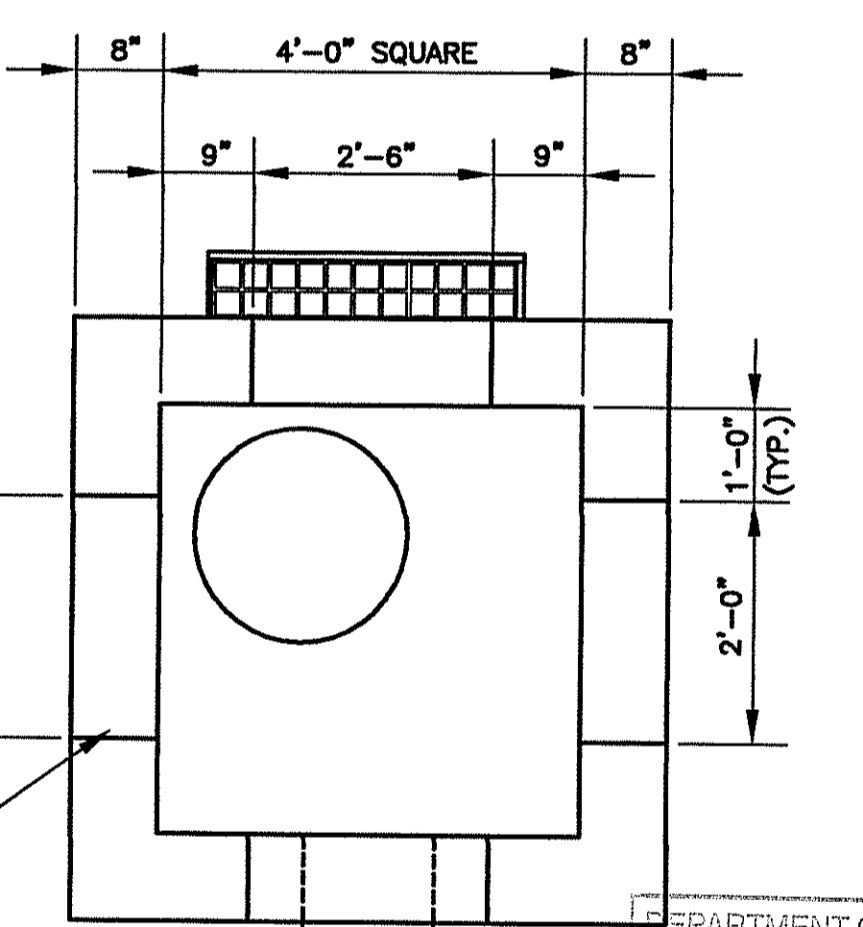
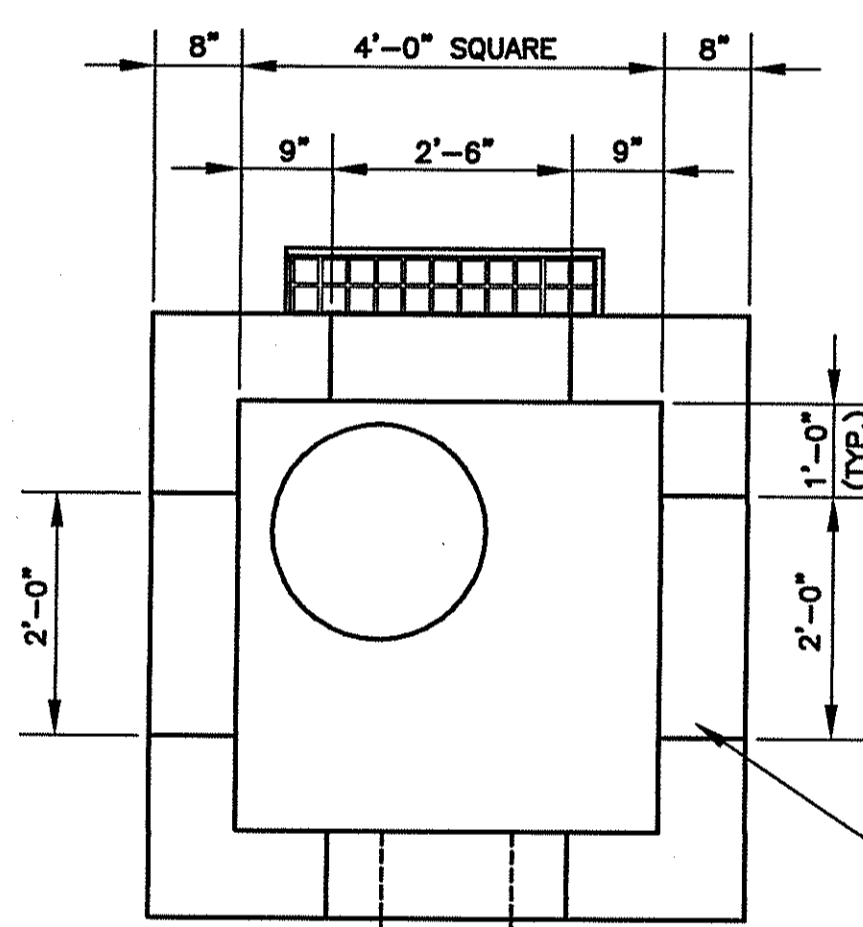
ANTI-SEEP COLLAR DETAILS
N.T.S.

BASIN MAINTENANCE NOTES

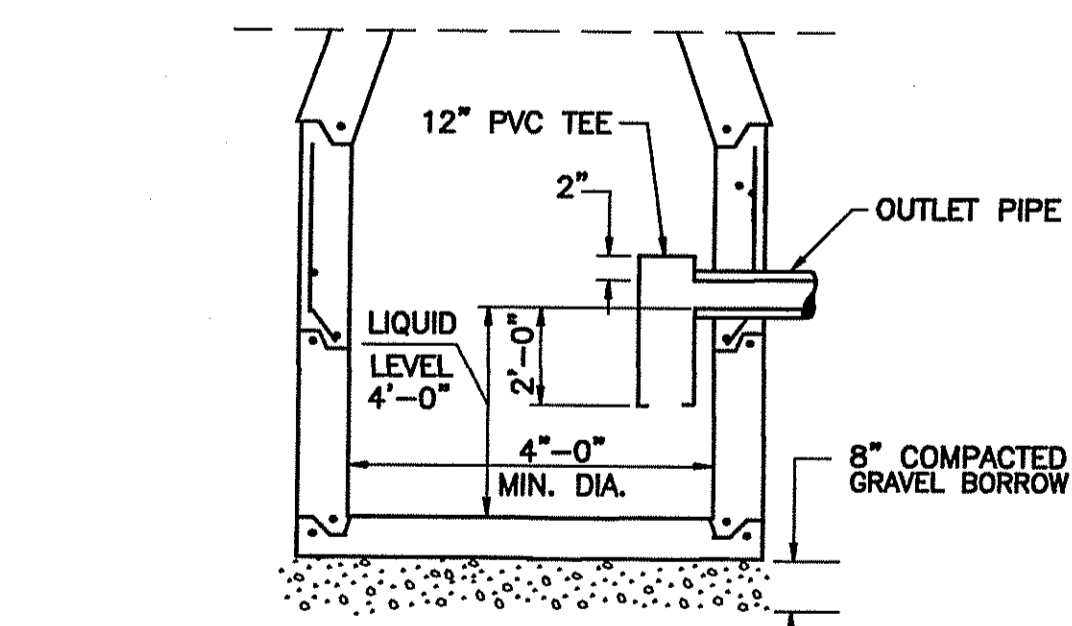
- MAINTENANCE RESPONSIBILITIES OF THE OWNER SHALL INCLUDE BUT NOT BE LIMITED TO:
- MEASURE DEPTH OF ACCUMULATED SILT IN BOTTOM OF BASINS ON A YEARLY CYCLE.
 - REMOVE ACCUMULATED SILT AND SEDIMENT FROM THE BASINS, INLETS AND DISCHARGE STRUCTURES EVERY TEN (10) YEARS, OR MORE FREQUENTLY IF ACCUMULATED DEPTH OF SEDIMENT EXCEEDS 3 INCHES.
 - ALL TRASH, LITTER, DEBRIS AND FOREIGN MATERIALS SHALL BE REMOVED FROM BASINS, INLET AND DISCHARGE STRUCTURES ON AN "AS NEEDED" BASIS AND AT LEAST DURING EACH YEARLY INSPECTION.
 - ALL REMOVED SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 - SIDE-SLOPES, EMBANKMENTS AND THE UPPER STAGE OF BASINS SHOULD BE MOVED AT LEAST ONCE PER GROWING SEASON.
 - INSPECTORS SHALL FILE A REPORT SHEET FOLLOWING EACH YEARLY SITE INSPECTION. IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN A FILE OF ALL MAINTENANCE PERFORMED AND ALL INSPECTION REPORTS AND SHALL BE SIGNED AND DATED BY PERSONNEL CONDUCTING ON-SITE INVESTIGATIONS. INSPECTION REPORTS SHALL CONTAIN COMMENTS ON THE FOLLOWING:
 - DEM FILE NO.
 - EMBANKMENT INTEGRITY;
 - EROSION;
 - TREE GROWTH;
 - INLET CONDITIONS;
 - OUTLET CONDITIONS;
 - SEDIMENT ACCUMULATIONS;
 - SLOPE STABILITY;
 - DISCHARGE STRUCTURE.
 - ANY DEFICIENCIES NOTED DURING AN INSPECTION SHALL BE REPAIRED OR REPLACED WITHIN 30 DAYS OF DEFICIENCY REPORT. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR MUST BE DONE IMMEDIATELY.



BASIN 2 SECTION A-A
SCALE: 1"=10'



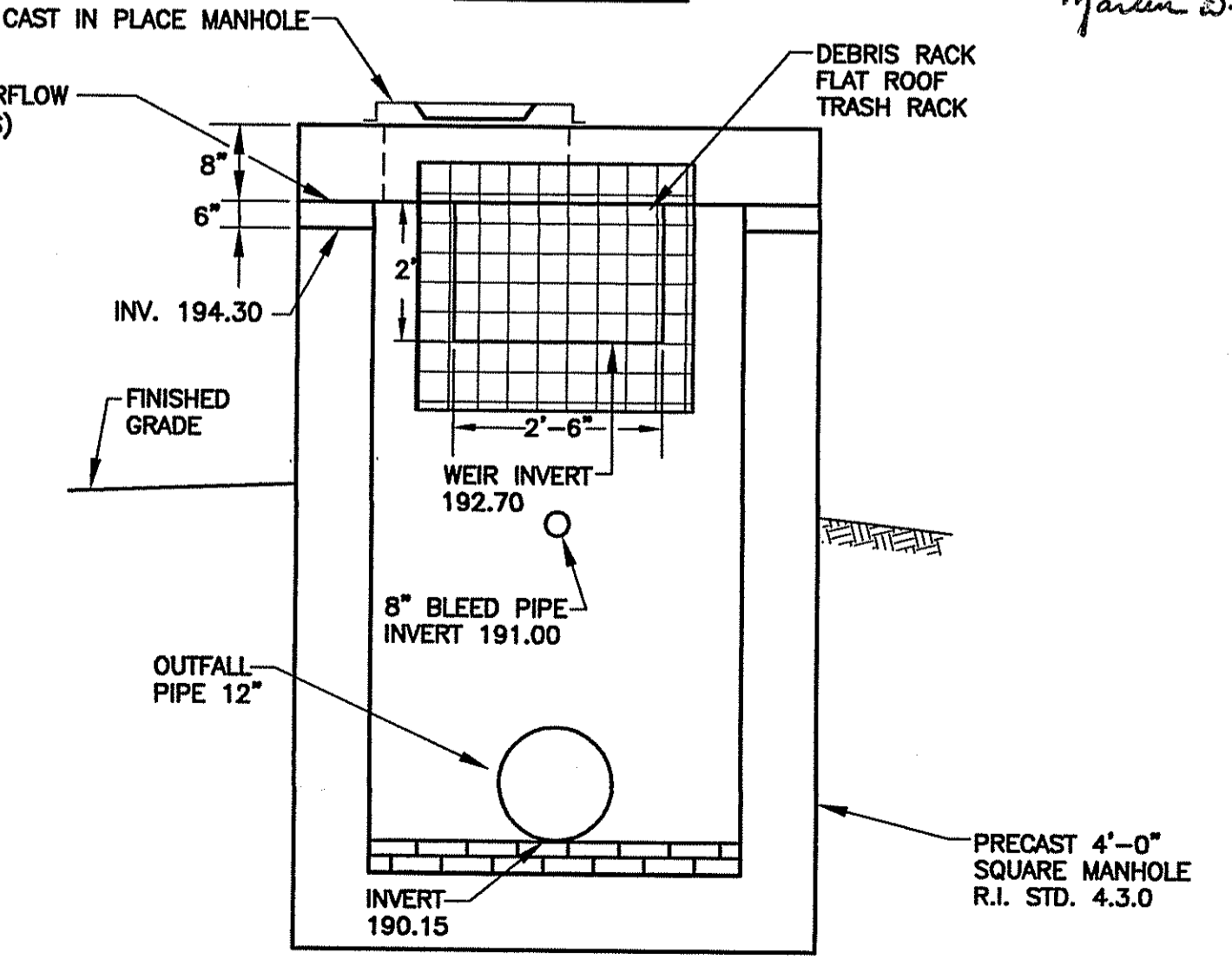
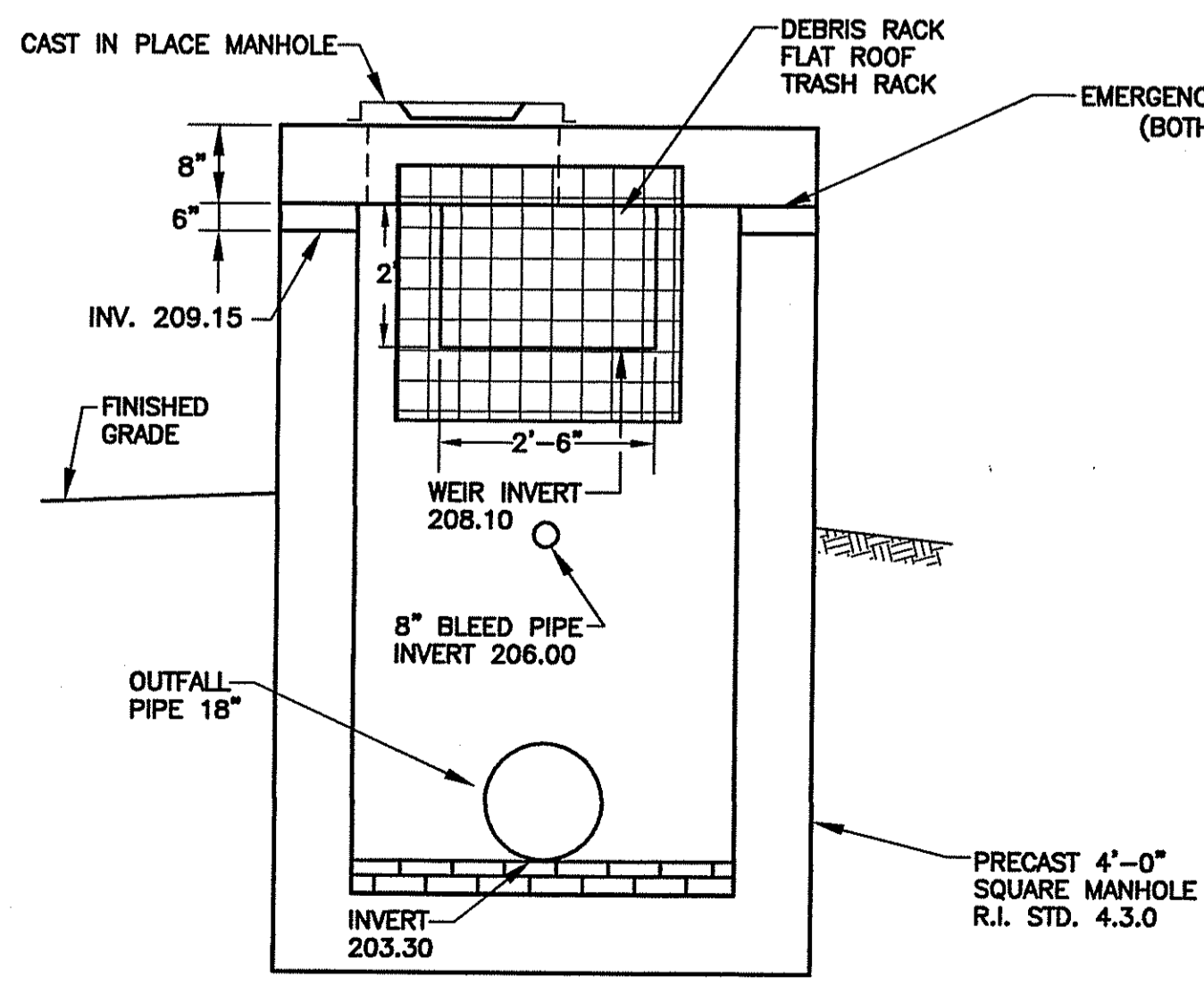
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 0 8 2007 FILE # 07-0237
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.



PRECAST CONCRETE CATCH BASIN WITH GREASE AND OIL TRAP
NOT TO SCALE

* CATCH BASINS SHALL CONFORM TO RIDOT STANDARDS WITH THE ADDITIONAL REQUIREMENTS PROVIDED FOR THE GREASE AND OIL TRAP.

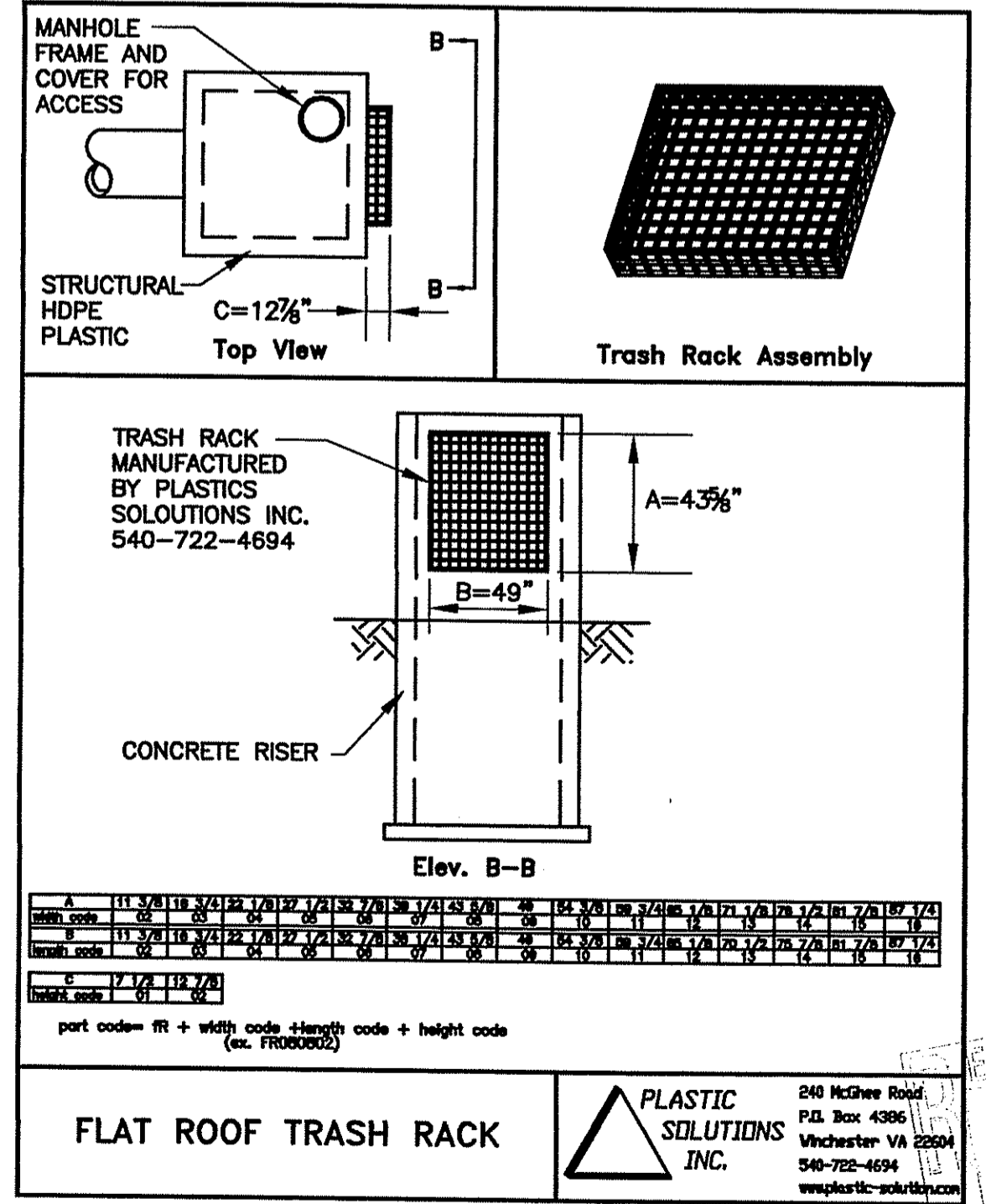
- UTILITY NOTES:**
- THE CONTRACTOR SHALL NOTIFY DIG-SAFE AND THE OWNER A MINIMUM OF 72 HOURS PRIOR TO COMMENCING WORK.
 - THE CONTRACTOR SHALL COORDINATE WITH FOR LOCATING ANY ON-SITE UTILITIES.
 - ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
 - THE CONTRACTOR SHALL ADJUST ALL UTILITY BOXES, FRAMES, AND COVERS AS REQUIRED TO MATCH FINISHED GRADE.



DISCHARGE STRUCTURE BASIN 1
N.T.S.

DISCHARGE STRUCTURE BASIN 2
N.T.S.

NOTE: PLACE DISCHARGE STRUCTURES ON 12-INCH COMPACTED GRAVEL BORROW



APPROVED BY THE TOWN OF EAST GREENWICH PLATTING AND SUBDIVISION BOARD

TITLE _____ DATE _____

PROJECT
1600 SOUTH COUNTY
EAST GREENWICH
RHODE ISLAND
ASSESSORS PLAT 10C LOT 30

TODD A. RAVERELLE
No. 07-05526
REGISTERED PROFESSIONAL ENGINEER

CLIENT
MORRIS GROUP LLC.
GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE
DETAIL 3

NO.	DATE	REVISIONS

PROJECT NO.: 1078

DATE: JULY 13, 2007

SCALE: 1" = 40'

DRAWN BY: LBD

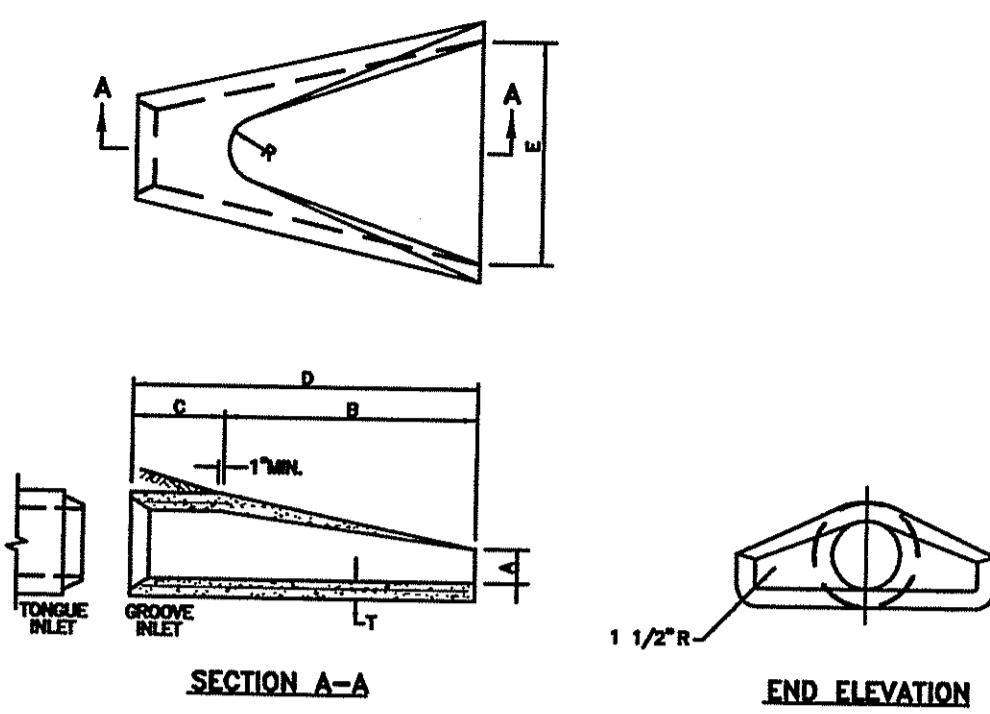
CHECKED BY: TAR

DRAWING NUMBER

5

SHEET 5 OF 8

RECEIVED
JUL 16 2007



DIMENSIONS								REINFORCEMENT	
DA	A	B	C	D	E	T		MIN. AREA OF STEEL (IN.²)	MIN. AREA OF STEEL (IN.²)
1'-0"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	6"	2"	0.048	
1'-6"	6"	2'-6"	5'-10"	6'-11"	2'-6"	11"	2 1/4"	0.060	
2'-0"	8 1/2"	2'-7 1/2"	2'-8"	6'-1 1/2"	4'-0"	1'-2"	3"	0.072	
2'-6"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	1'-3"	3 1/2"	0.084	
3'-0"	1'-6"	5'-0"	2'-0 3/4"	6'-1 3/4"	6'-0"	1'-5"	4"	0.108	
3'-6"	1'-6"	5'-6"	2'-11"	6'-2"	6'-0"	1'-10"	5"	0.120	
4'-0"	2'-0"	6'-0"	2'-2"	6'-2"	7'-0"	1'-10"	6"	0.132	
4'-6"	2'-6"	6'-6"	3'-0"	6'-3"	8'-0"	2'-0"	6"	0.144	

NOTE: SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE FLARED END SECTION
 R.I. STANDARD 2.3.0
 JUNE 15, 1998

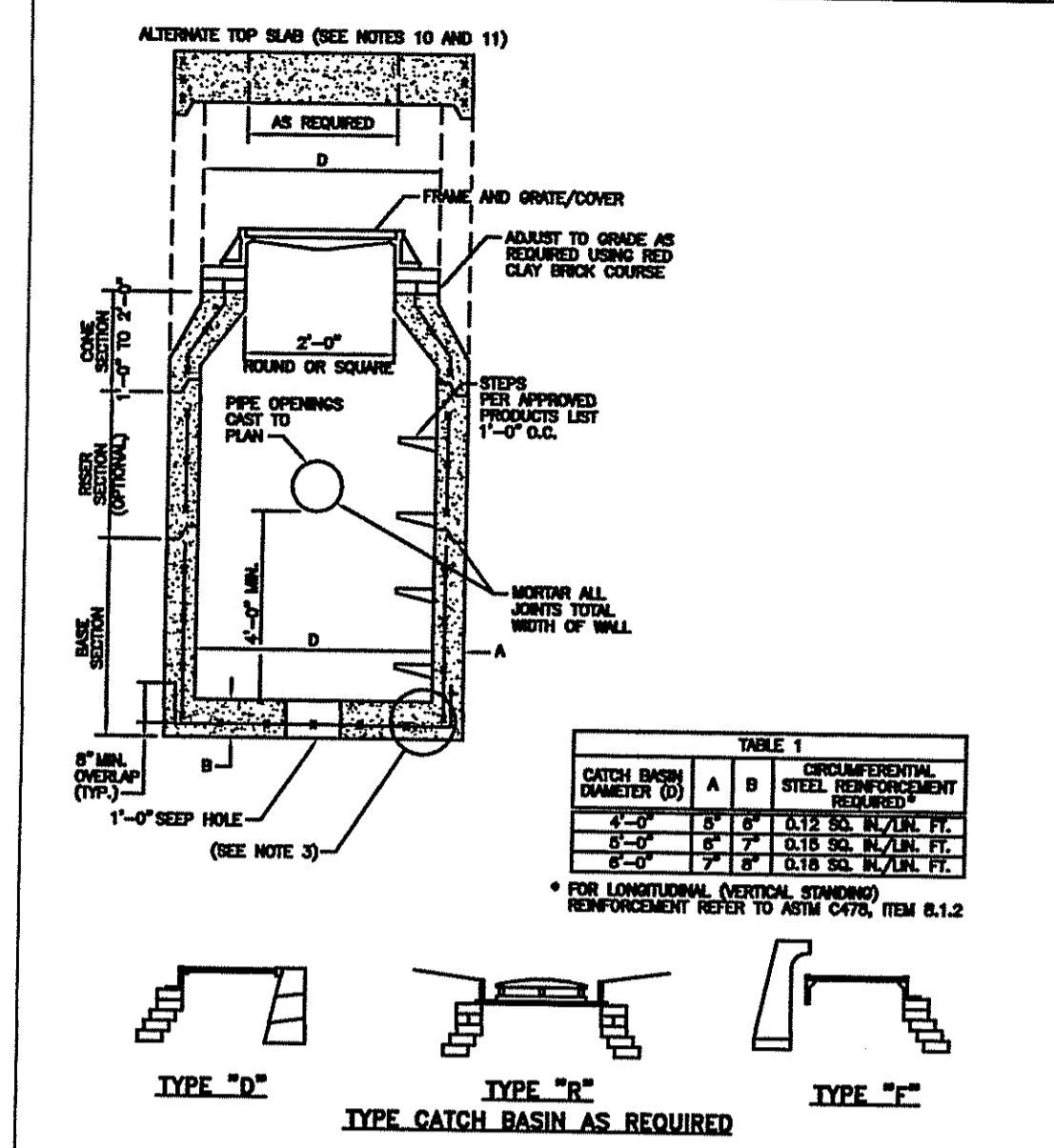
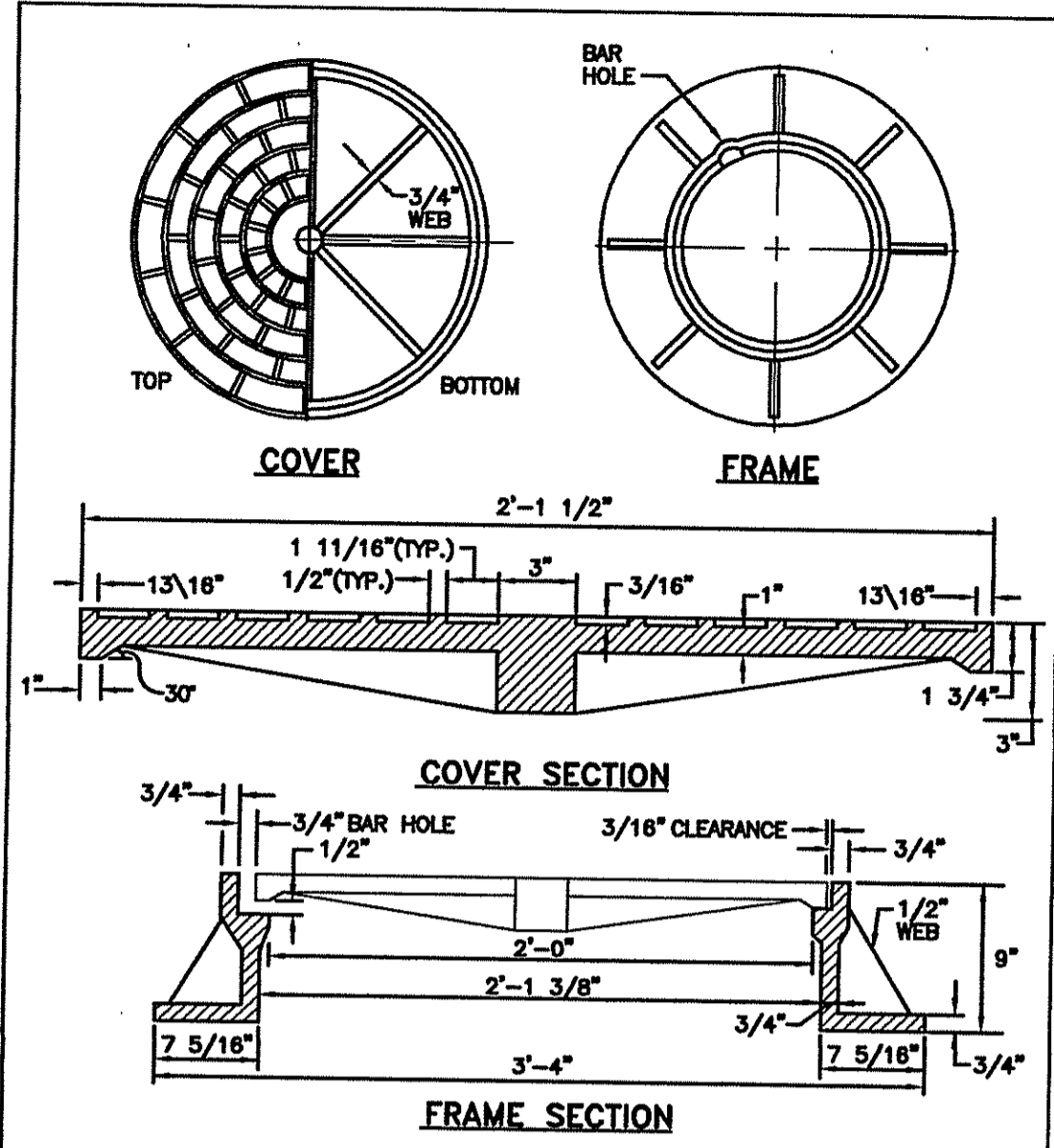
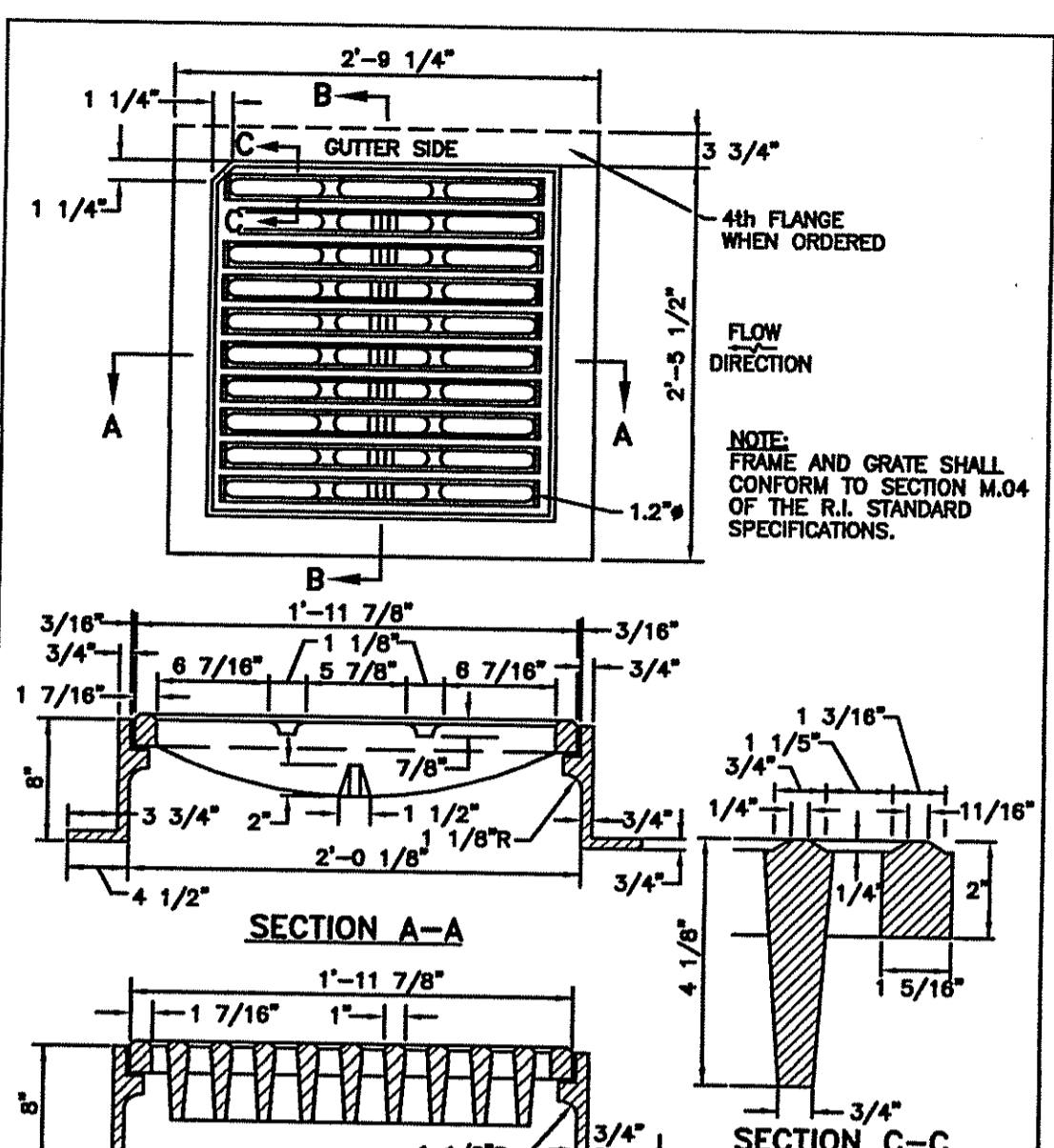


TABLE 1			
CATCH BASIN DIAMETER (D)	A	B	STEEL REINFORCEMENT REQUIRED
4'-0"	6"	6"	0.12 SQ. IN./LIN. FT.
5'-0"	8"	8"	0.17 SQ. IN./LIN. FT.
6'-0"	10"	10"	0.24 SQ. IN./LIN. FT.

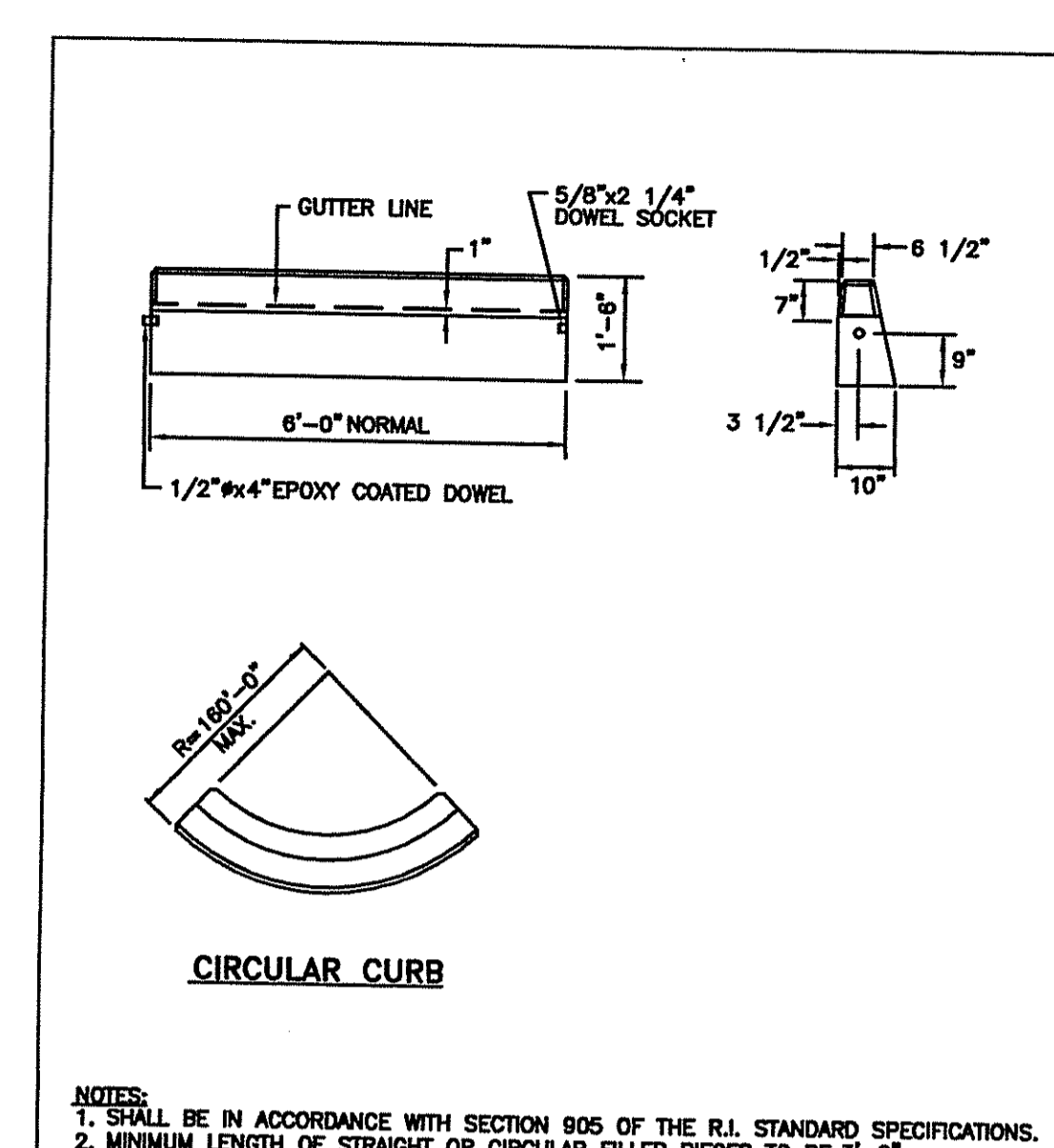
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN (WITH 4" SLUMP)
 R.I. STANDARD 4.4.0
 JUNE 15, 1998



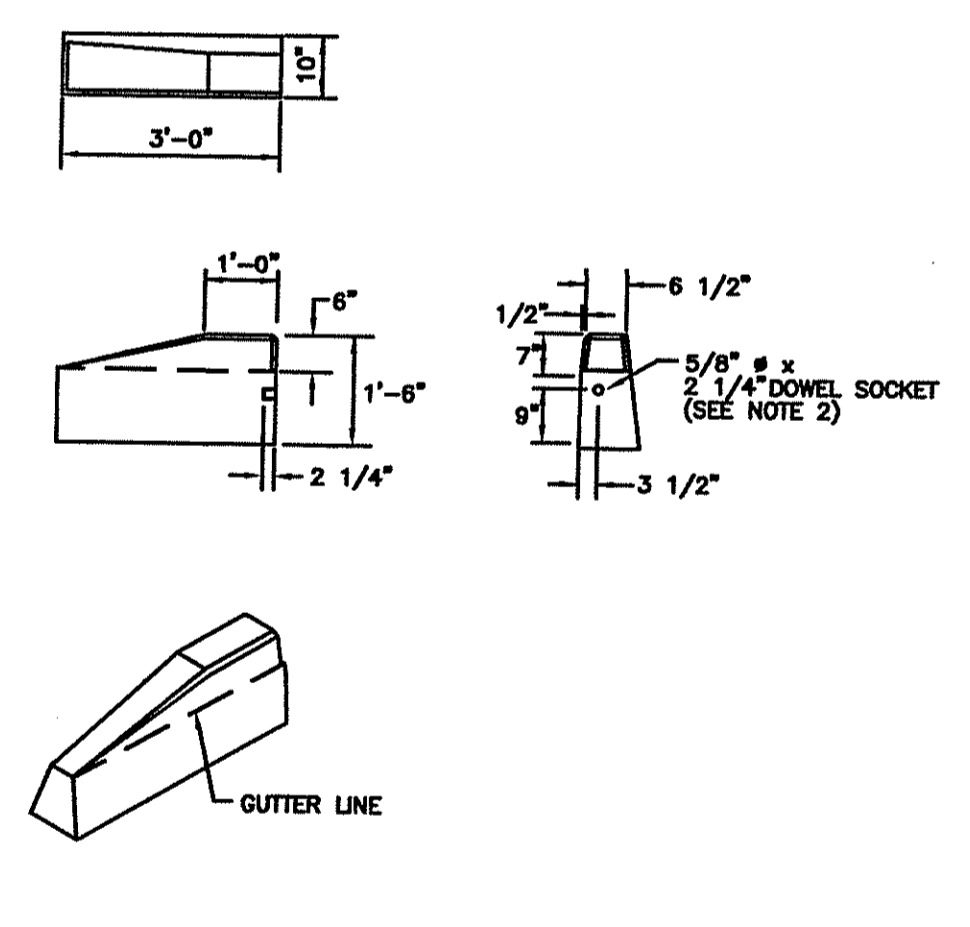
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
HEAVY-DUTY ROUND FRAME AND COVER
 R.I. STANDARD 6.2.1
 JUNE 15, 1998



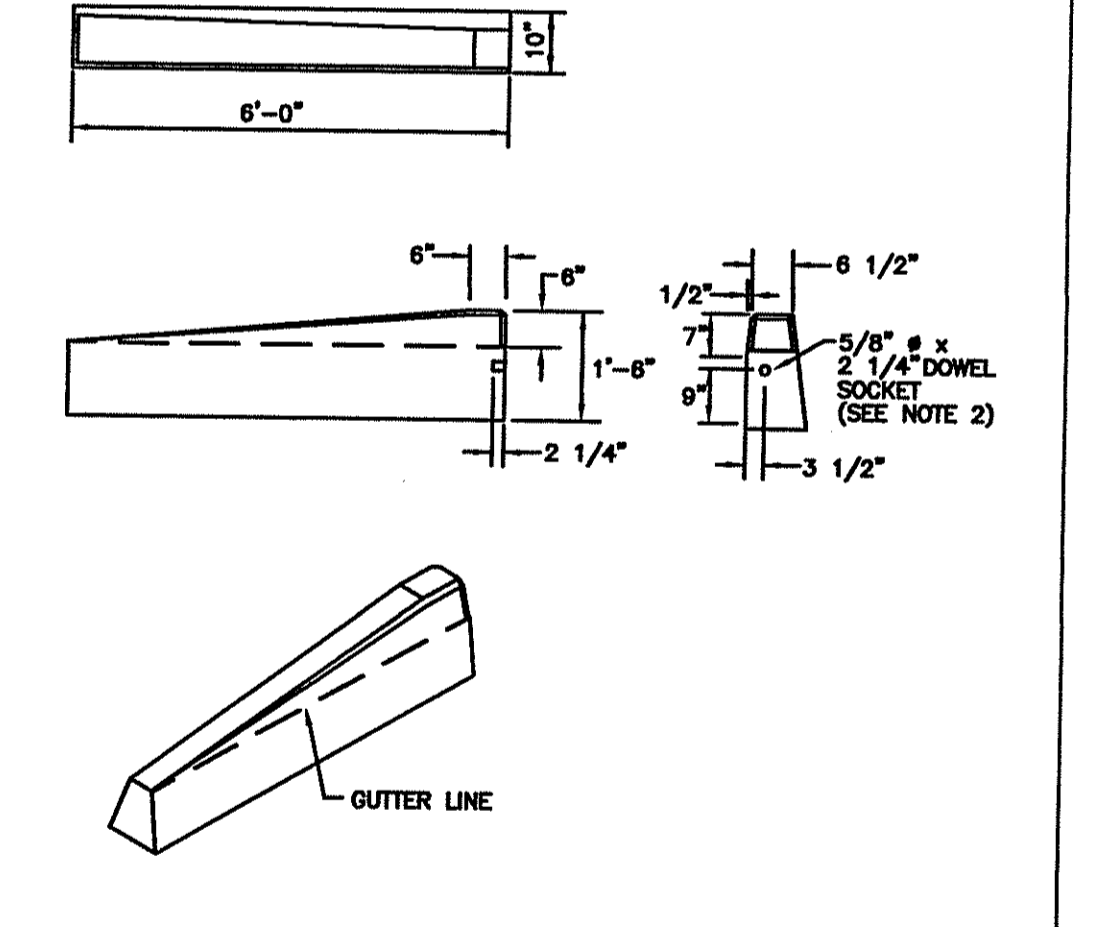
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
SQUARE FRAME AND GRATE (BICYCLE SAFE)
 R.I. STANDARD 6.3.2
 JUNE 15, 1998



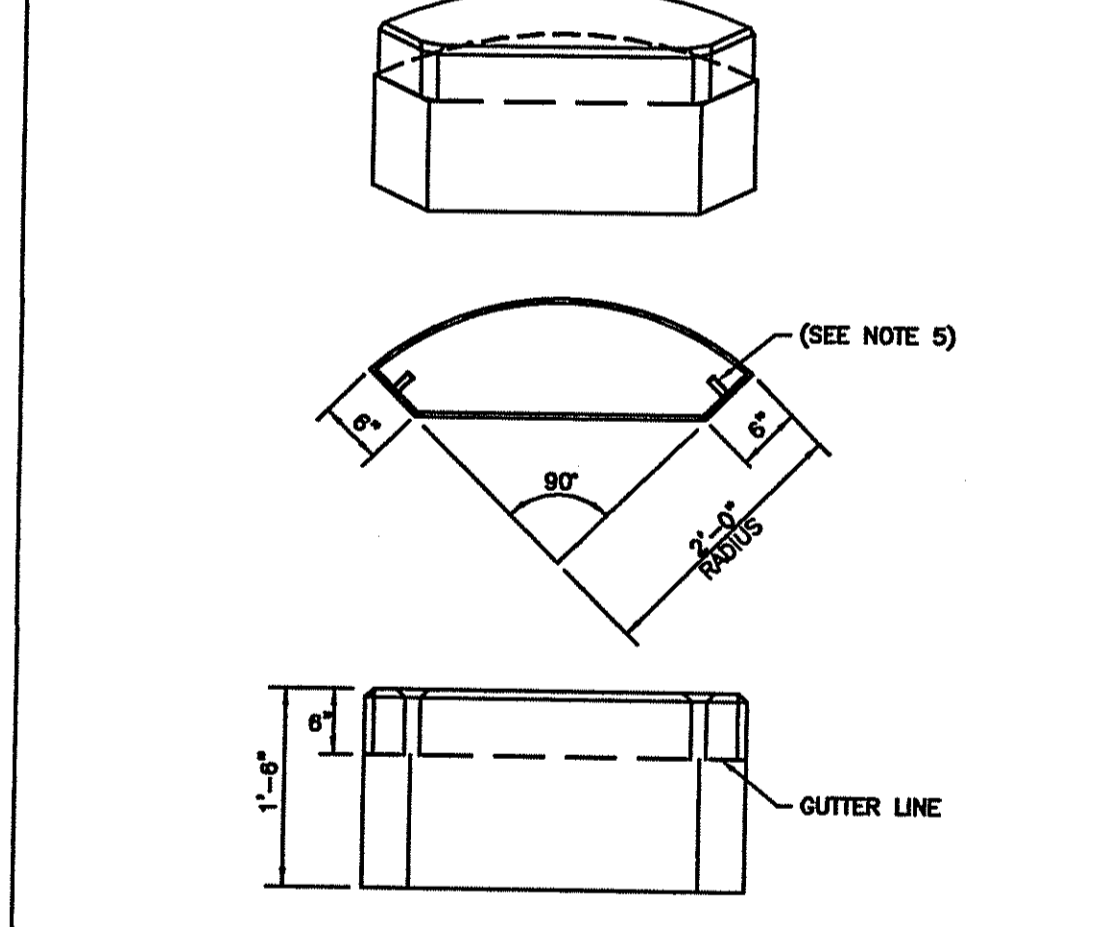
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE CURB
 R.I. STANDARD 7.1.0
 JUNE 15, 1998



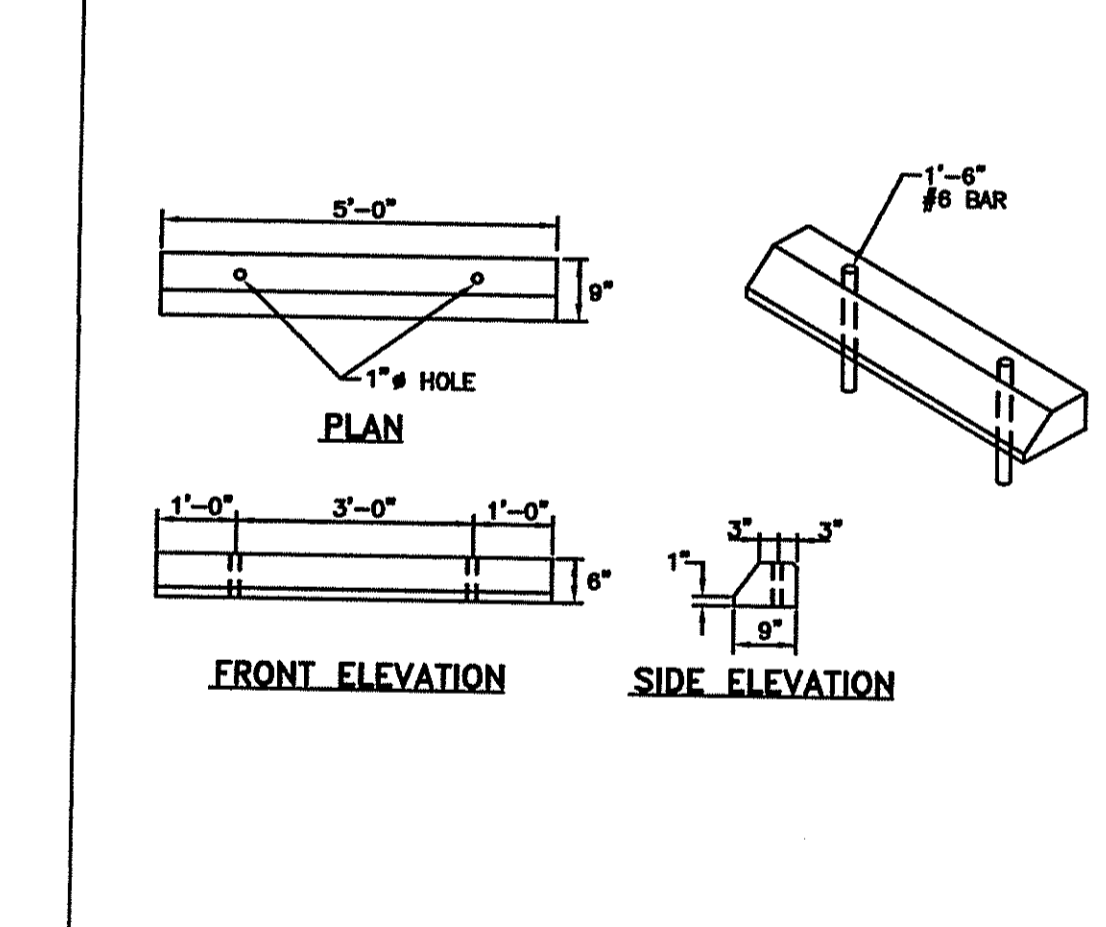
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
3'-0" PRECAST CONCRETE TRANSITION CURB
 R.I. STANDARD 7.1.1
 JUNE 15, 1998



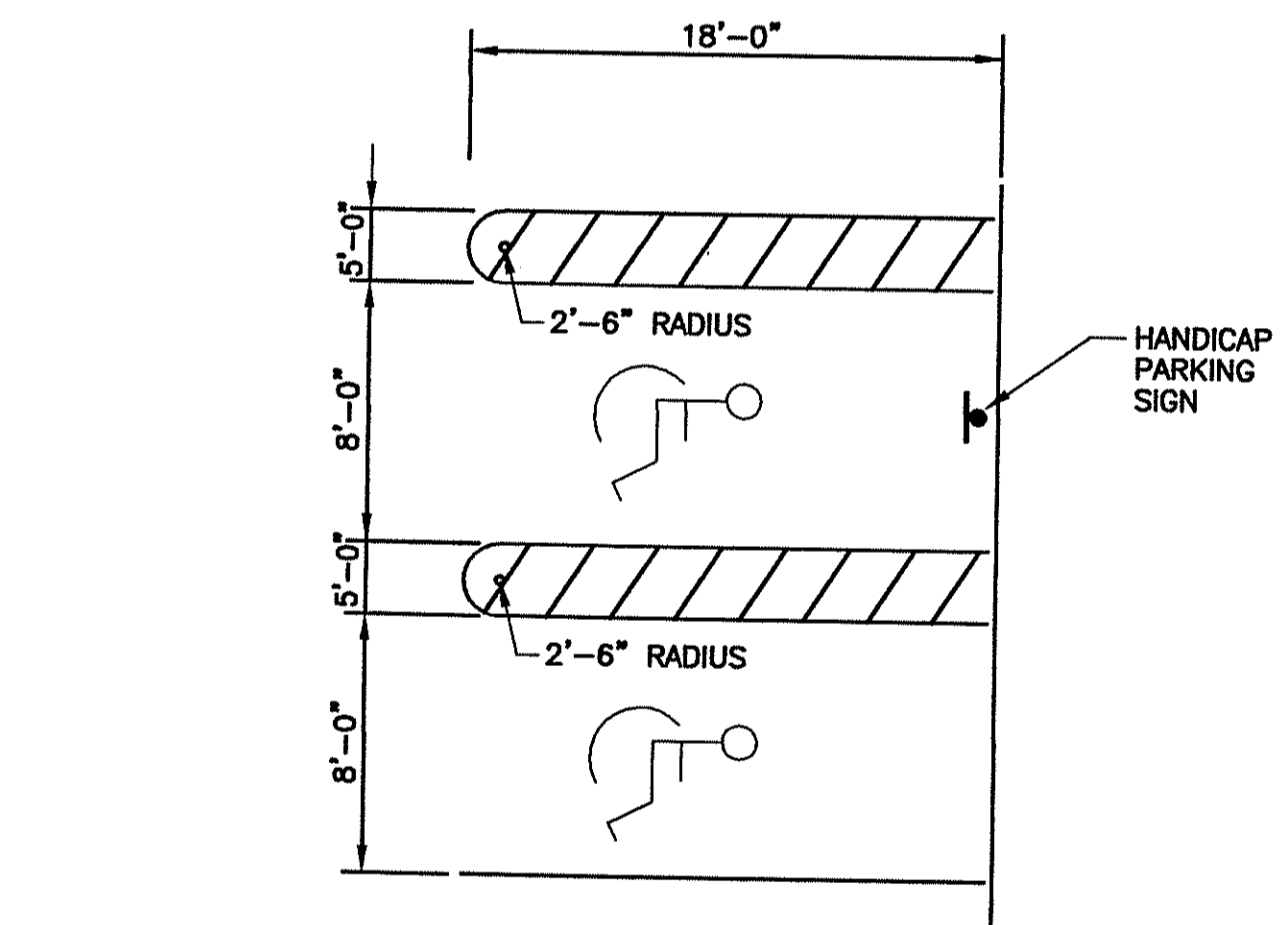
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
6'-0" PRECAST CONCRETE TRANSITION CURB
 R.I. STANDARD 7.1.2
 JUNE 15, 1998



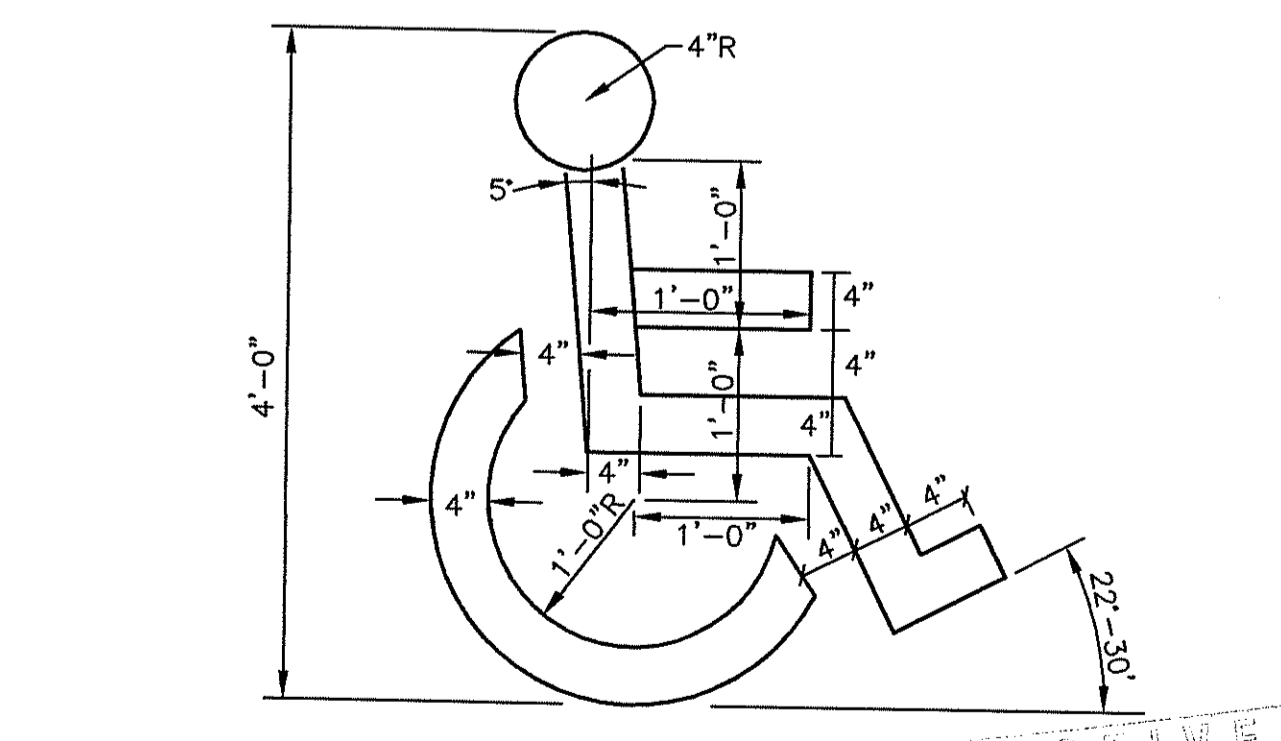
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE 2'-0" RADIUS CORNER
 R.I. STANDARD 7.1.4
 JUNE 15, 1998



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE CAR STOPS
 R.I. STANDARD 7.2.4
 JUNE 15, 1998



NOTE: ALL STRIPING SHALL BE YELLOW
HANDICAP PARKING STALL
 NOT TO SCALE



NOTE: NOT TO SCALE
PAINTED HANDICAP SYMBOL
 NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED AUG 08 2007 FILE # 07-0237
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
 August D. Wencel

APPROVED BY THE TOWN OF EAST GREENWICH
 PLATTING AND SUBDIVISION BOARD
 TITLE DATE

PROJECT
1600 SOUTH COUNTY EAST GREENWICH RHODE ISLAND ASSESSORS PLAT 10C LOT 30

CLIENT
MORRIS GROUP LLC.

DRAWING TITLE
DETAIL 4

PROJECT NO.: 1078
 DATE: MAY 25, 2007
 SCALE: 1" = 40'
 DRAWN BY: LBD
 CHECKED BY: TAR
 DRAWING NUMBER
6
 SHEET 6 OF 8

REVISIONS

NO.	DATE	REVISIONS

Professional Engineer
GORDON R. ARCHIBALD, INC.
 200 MAIN ST., PAWTUCKET, R.I.

APPROVED BY THE TOWN OF EAST GREENWICH
 PLATTING AND SUBDIVISION BOARD

TITLE _____ DATE _____

PROJECT
VESPIA'S LANDING
 EAST GREENWICH
 RHODE ISLAND
 ASSESSORS PLAT 10C LOT 30

TODD A. RAVENHILLE
 No. 07923
 REGISTERED PROFESSIONAL ENGINEER

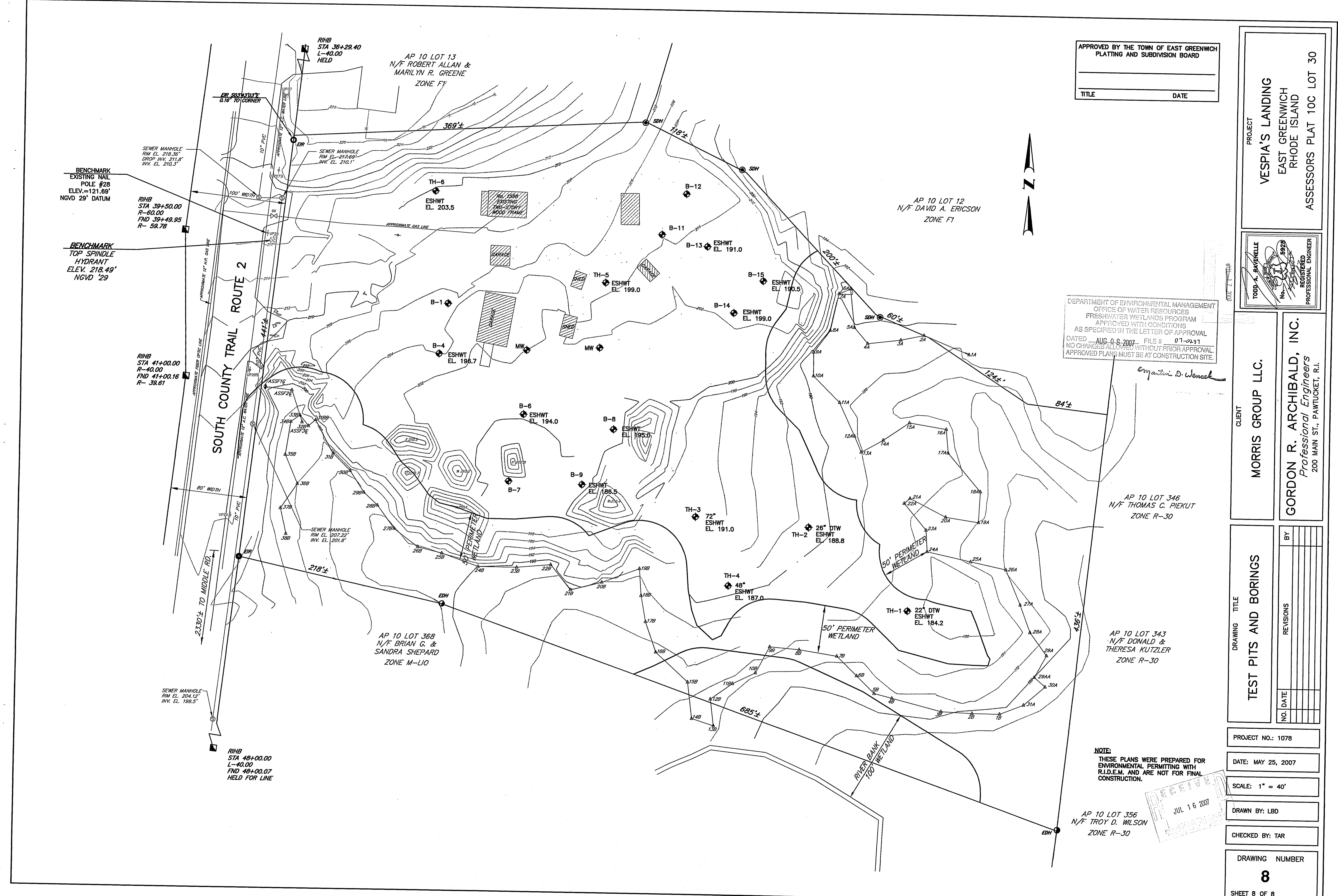
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED AUG 08 2007 FILE # 071-0237
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

CLIENT
MORRIS GROUP LLC.
GORDON R. ARCHIBALD, INC.
Professional Engineers
 200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE
TEST PITS AND BORINGS

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1078
 DATE: MAY 25, 2007
 SCALE: 1" = 40'
 DRAWN BY: LBD
 CHECKED BY: TAR
 DRAWING NUMBER
8
 SHEET 8 OF 8



RECEIVED
 JUL 16 2007

FILED IN 01091 OFFICE OF ENVIRONMENTAL MANAGEMENT 7/16/07 10:48:59 AM USER: J. D. WILSON DRAWING NO. 1078