


PRELIMINARY PLANS FOR A
 PROPOSED MAJOR RESIDENTIAL SUBDIVISION
 (10 LOTS)

NORTH SCITUATE ESTATES

AP 43 LOTS 1, 2 & 116
 PLAINFIELD PIKE
 SCITUATE, RHODE ISLAND

ZONING DISTRICT: RR-120

SUBMITTED TO: DEPARTMENT OF ENVIRONMENTAL MANAGEMENT FRESHWATER
 WETLANDS PROGRAM


NATIONAL
 Surveyors-Developers
 Inc.
 42 Hamlet Ave., Woonsocket, R.I.
 (401) 769-7779

MASTER PLAN APPROVED: SEPTEMBER 18, 2007
 FLEXIBLE ZONING GRANTED FOR REDUCTION IN LOT WIDTH

PROJECT TEAM

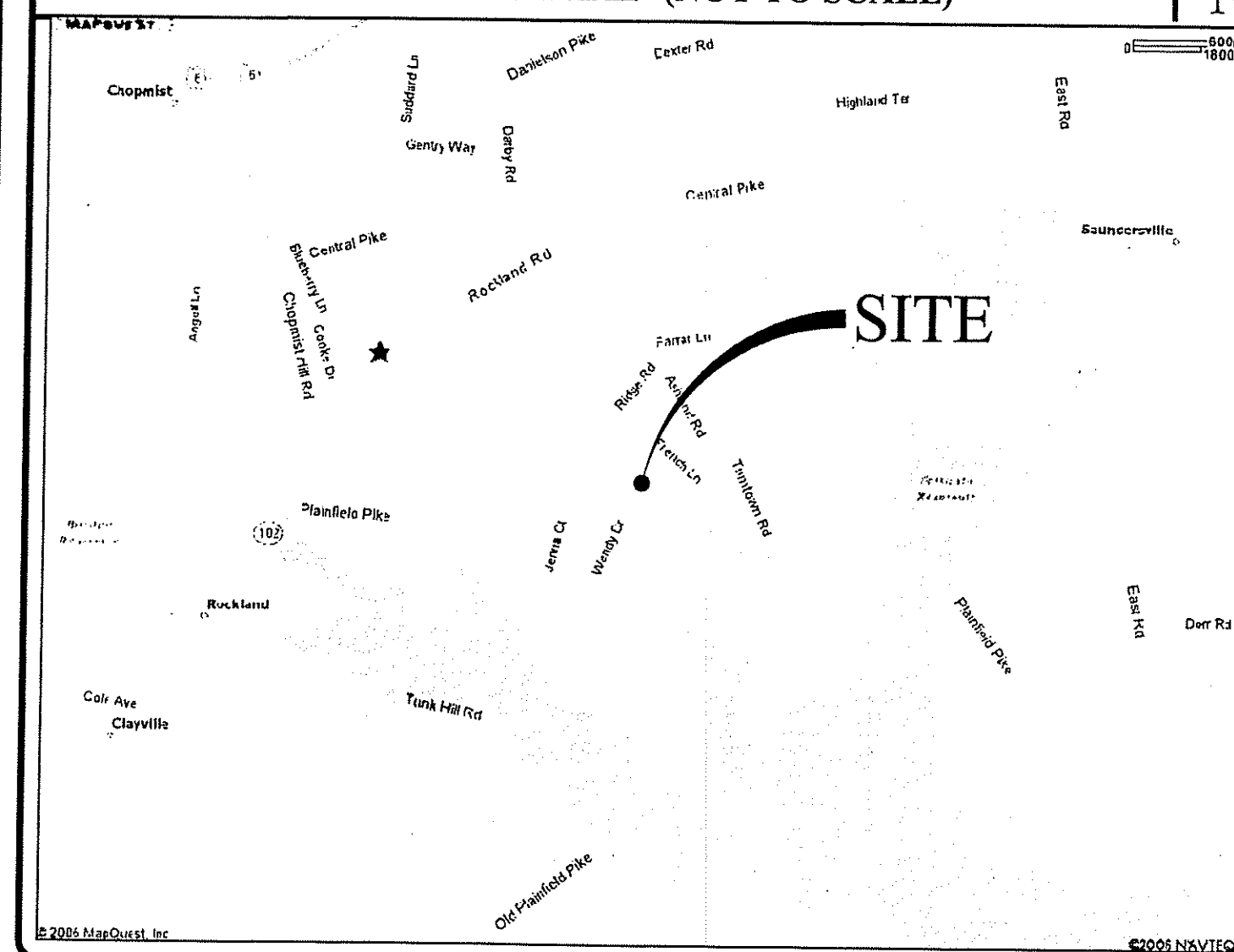
OWNER: STEPHEN FRENCH
 10 FRENCH LANE
 N. SCITUATE, RI 02857
 PHONE: 401-647-3005

KENNETH BAZAR
 688 HOPE FURNACE ROAD
 HOPE, RI 02831

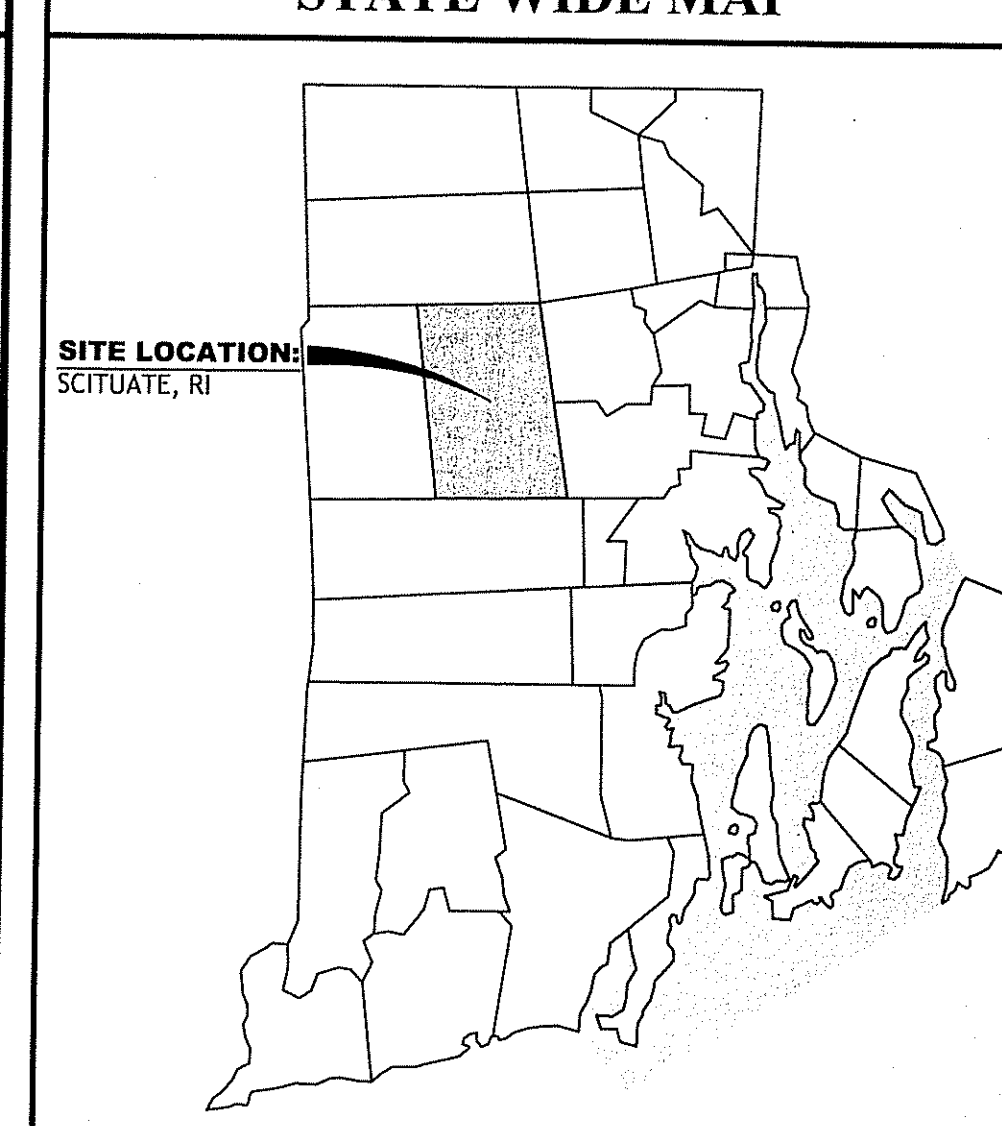
CIVIL: CASALI & D'AMICO ENGINEERING, INC.
 300 POST ROAD
 WARWICK, RI 02888
 PHONE: 401-944-1300
 FAX: 401-944-1313

SURVEYOR: NATIONAL LAND SURVEYORS, INC
 42 HAMLET AVENUE
 WOONSOCKET, RI
 PHONE: 401-769-7779

LOCUS MAP (NOT TO SCALE)

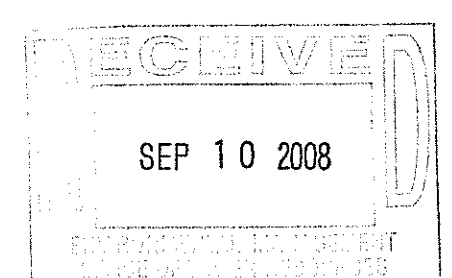


STATE WIDE MAP



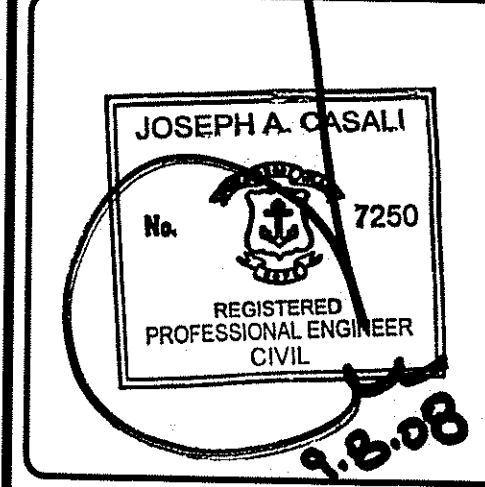
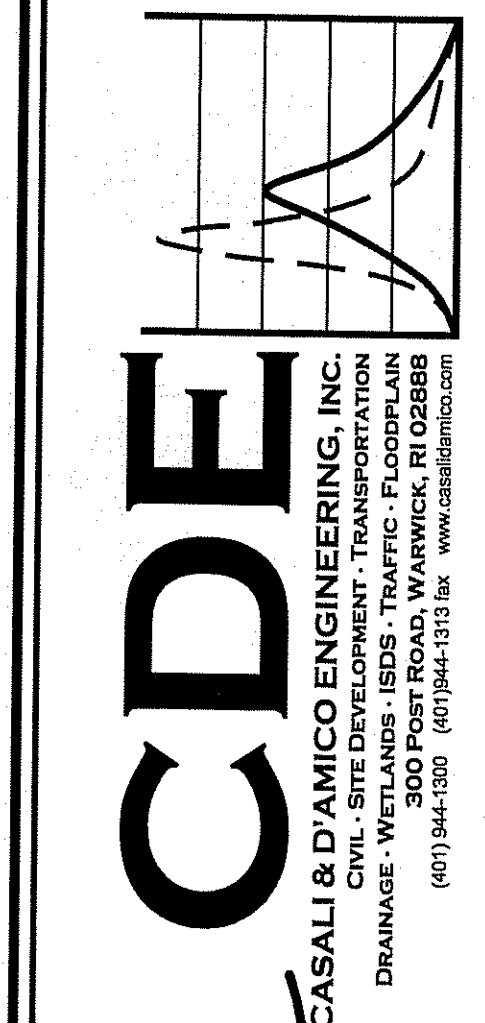
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED Oct 28 2008 FILE # 08-0148
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman



NORTH SCITUATE ESTATES
 PLAINFIELD PIKE
 SCITUATE, RHODE ISLAND
 AP 43 LOTS 1, 2 & 116

NO.	DATE	DESCRIPTION
1	4/07	MASTER PLAN SUBMISSION
2	5/07	TOWN ENGINEER COMMENTS
3	7/07	PLAN COMMISSION COMMENTS
4	8/07	PLAN COMMISSION COMMENTS
5	5/08	RIDEM SUBMISSION
6	9/08	RIDEM COMMENTS

DRAWN BY: JDC
 CHECKED BY: JAC/NCW
 DATE: DECEMBER 2007
 PROJECT NO: 06-52E

COVER SHEET

SHEET 1 OF 11

Q:\03-52-National Land Surveyors\06-52E-5-French\CAD\Plan-Set\5-FRENCH-PLAN-SET1.dwg Sep 08 2008 12:12pm

GENERAL NOTES:

- CLASS IV PROPERTY LINE AND CLASS III TOPOGRAPHIC SURVEY COMPLETED BY NATIONAL LAND SURVEYORS, INC. 42 HAMLET AVENUE, WOONSOCKET, RI.
- THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
- SOILS EXISTING ON THE SITE ARE CANTON, CHARLTON, GLOUCESTER-HINCKLEY, PAXTON, RIDGEBURY, WHITEMAN, LEICESTER & WOODBRIDGE, ALL HYDROLOGIC SOIL GROUPS "A, B & C".
- SOIL EVALUATIONS WERE COMPLETED BY NATIONAL LAND SURVEYORS, INC.
- WETLAND RESOURCES DELINEATED BY NATURAL RESOURCE SERVICES, INC. IN DECEMBER, 2006.
- THE SITE IS ENTIRELY WITHIN THE SCITUATE RESERVOIR WATERSHED.

FLOODPLAIN NOTES:

- THE SITE PREDOMINANTLY LIES IN ZONE "C". (AREAS OF MINIMAL FLOODING - ENTIRELY OUTSIDE THE 100 - YEAR AND 500 - YEAR FLOOD PLAINS) AS ILLUSTRATED IN THE FLOOD INSURANCE MAP (FIRM) FOR THE TOWN OF SCITUATE, PROVIDENCE COUNTY DISTRICT IN RHODE ISLAND, COMMUNITY PANELS NUMBERS 440024 0005B; 440024 0010B; 440024 0015B; 440024 0020B MAP EFFECTIVE DATE JANUARY 2, 1981.
- FEMA FLOOD INSURANCE RATE MAPPING DOES NOT PROVIDE SUFFICIENT DETAIL REGARDING SPRUCE BROOK'S 100-YEAR FLOOD PLAIN LINE AND ELEVATIONS.
- AN ENGINEERING ASSESSMENT HAS CONCLUDED THAT THE PROPOSED SITE IMPROVEMENTS SHOWN IN THIS PLAN SET ARE ABOVE AND BEYOND THE LOCAL 100-YEAR FLOOD PLAIN AREAS ASSOCIATED WITH SPRUCE BROOK SHOWN ON THE EASTERLY SIDE OF AP 43, LOT 1. THE 100-YEAR FLOODPLAIN ASSOCIATED WITH SPRUCE BROOK WILL NOT BE IMPACTED BY THE PROPOSED DEVELOPMENT.

SITE NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS.
- STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
- ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR.
- ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
- WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE TOWN OF SCITUATE AT NO ADDITIONAL COST TO THE OWNER.
- ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER OR TOWN.
- THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION.
- THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
- ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AT COMPLETION OF EACH DAYS WORK.
- ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.
- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
- ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, ROADWAY CONSTRUCTION, AGGREGATE MATERIALS, DRAINAGE STRUCTURES, CURBING, SIDEWALK, LANDSCAPING, SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2004 EDITION (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA) AND TOWN OF SCITUATE.

MISCELLANEOUS UTILITY NOTES:

- PRIOR TO CONSTRUCTION, ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATIONS WILL BE AUTHORIZED.
- OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE IN STALLED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THERE OPERATIONS.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.
- EXISTING UTILITY FRAMES AND COVERS SHALL BE ADJUSTED TO GRADE AS REQUIRED IN NEW PAVING AND PAVEMENT OVERLAY AREAS.

LAYOUT NOTE:

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEMS FOUND WHICH DO NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DIVIDES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED IN THE STATE OR TOWN RIGHT-OF-WAY.
- ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 1988 EDITION. INCLUDING REVISION 3, SEPTEMBER 3, 1993 AND SUBSEQUENT ADDENDA.
- SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

DRAINAGE SYSTEM MAINTENANCE SCHEDULE:

UPON PROJECT COMPLETION, THE PROPERTY OWNER SHALL ADHERE TO THE FOLLOWING MAINTENANCE PLAN AND SCHEDULE:

- CATCH BASINS, MANHOLES AND DRAIN LINES:---AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONAL TO ENSURE PROPER OPERATION. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:
 - * DAMAGE TO GRATE/ COVERS
 - * EVIDENCE OF STANDING WATER
 - * DEBRIS REMOVAL
 - * STRUCTURAL ALIGNMENT/ INTEGRITY
 ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED.
- SEDIMENT REMOVAL:---ALL REMOVED SEDIMENT IS TO BE TESTED TO DETERMINE POLLUTANT CONTENT. THE SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS BASED UPON THE TEST RESULTS AND LOCAL, STATE, AND FEDERAL REGULATIONS
 - * SEDIMENT SHALL BE REMOVED FROM THE CATCH BASINS ON AN ANNUAL BASIS.
 - * THE SEDIMENT STORAGE VOLUME IN POND-1 IS FROM 406.0 TO 406.25. THE SEDIMENT SHALL BE CLEANED OUT TO ELEVATION 406.25 WHEN THE SEDIMENT REACHES ELEVATION 406.0.
 - * THE SEDIMENT STORAGE VOLUME IN POND-2 IS FROM 436.0 TO 436.50. THE SEDIMENT SHALL BE CLEANED OUT TO ELEVATION 436.5 WHEN THE SEDIMENT REACHES ELEVATION 436.0.

DRAINAGE SYSTEM NOTES:

- ALL RIM ELEVATIONS SHOWN ARE APPROXIMATE AND ARE TO BE SET FLUSH WITH FINAL GRADES.
- THE DESIGN ENGINEER MUST SUBMIT AN AS-BUILT PLAN AND A CERTIFICATION TO THE TOWN ENGINEER THAT THE CONSTRUCTION IS IN COMPLIANCE WITH THE DESIGN PLANS FOR ALL ELEMENTS OF THE STORM OR DRAINAGE SYSTEM PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
- THE PROPOSED DRAINAGE LINES SHALL BE ADS N-12 HDPE PIPE OR AN APPROVED EQUAL.

PROPOSED PAVEMENT STRUCTURE (TYPE A - ROADWAY):

- 1-1/2" CLASS 1, TYPE 1 BITUMINOUS CONCRETE
- 2-1/2" CLASS 1, MODIFIED BITUMINOUS BINDER
- 3" TYPE "A", PROCESSED GRAVEL BASE
- 6" COMPACTED GRAVEL BORROW RI STD. M.01.09.1
- 12" COMPACTED COMMON BORROW RI STD. M.01.01

PROPOSED PAVEMENT STRUCTURE (TYPE B - DRIVEWAY):

- 2" CLASS 1, TYPE 1 BITUMINOUS CONCRETE
- 8" COMPACTED GRAVEL BORROW RI STD. M.01.09.1

ASPHALT EMULSION TACK COAT TO BE PLACED ON ALL BITUMINOUS COURSES PRIOR TO PAVING.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

- THE HAYBALE AND SILT FENCE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.
- THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
- ALL CATCH BASINS AND CULVERTS SHALL BE PROTECTED WITH STAKED HAYBALES (R.I. STD. 9.8.0) DURING CONSTRUCTION ACTIVITIES. ALL PROPOSED STORM WATER DISCHARGE AREAS SHALL BE LINED WITH A RIPRAP SPLASH PAD AND PROTECTED WITH STAKED HAYBALE AND SILT FENCE (R.I. STD. 9.3.0) SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS WHERE DISTRIBUTING PIPES, CATCH BASINS, AND MANHOLES ARE TO BE CLEANED AND FLUSHED.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND IS MAINTAINED.
- ALL HAYBALES, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
- THE HAYBALES SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY HAYBALES AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY-BALES BECOMES FILLED WITH SEDIMENTS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.
- ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", DATED 1993.

BMP MAINTENANCE SCHEDULE

- ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER DRAINAGE SYSTEMS AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS TO ALL PIPES, INTAKE AND DISCHARGE STRUCTURES (INCLUDING RIP-RAP SPLASH PADS), CATCH BASIN SUMPS, AND MANHOLES.
- INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES (INCLUDING ROADWAY SIDE SLOPES, FOR STRUCTURAL INTEGRITY, STABILITY AND EVIDENCE OF SOIL EROSION, SHALL INCLUDE MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/8 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BIMONTHLY IF NO RAINFALL EVENT OCCURS.
- UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION, REPAIR ANY VEGETATIVE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, (SEEDING, PLANTING, ETC.) WHERE REQUIRED, AND REPAIR (OR REMOVE WHERE APPROPRIATE) ANY TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL DEVICES. AFTER PERMANENT SOIL STABILIZATION ON THE ENTIRE SITE HAS OCCURRED, ALL TEMPORARY CONTROL MEASURES MUST BE REMOVED.
- AFTER THE COMPLETION OF PROJECT CONSTRUCTION AND THE FINAL STABILIZATION OF THE ENTIRE SITE, THE INSPECTION AND MAINTENANCE OF ALL STORMWATER FACILITIES MUST BE PERFORMED.
- REPLANTING, REGRAIDING, OR OTHER REPAIRS NEEDED AS A RESULT OF SOIL EROSION AND SEDIMENTATION PROCESSES SHALL BE DONE PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE ENTIRE SYSTEM.
- ANY TRASH, DEBRIS, ETC. SHOULD BE REMOVED FROM ANY WETLAND AREAS, SWALE, AND PIPE OUTLETS.
- SWALES SHALL BE MOWED AT LEAST ONCE DURING THE GROWING SEASON TO PREVENT UNWANTED WOODY GROWTH.
- SWALES AND DETENTION AREAS SHALL BE INSPECTED AFTER MAJOR STORM EVENTS OR ON AN ANNUAL BASIS. REPAIRS SHALL BE PERFORMED IMMEDIATELY AS CONDITIONS WARRANT. BARE SPOTS AND ERODED AREAS SHALL BE RESEED IMMEDIATELY FOLLOWING OBSERVATIONS. ALL LITTER AND TRASH SHALL BE REMOVED DURING INSPECTIONS.

EXTENDED DETENTION POND NOTES:

- GRASSES MUST BE PLANTED AROUND AND WITHIN THE POND IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE THE SLOPES AND PREVENT EROSION. TREES AND SHRUBS SHALL NOT BE ON THE IMPOUNDING EMBANKMENTS TO PREVENT POSSIBLE FAILURE OF THE STRUCTURE. IT IS SUGGESTED THE DEVELOPER USE STORM WATER BASIN PLANTS AND LANDSCAPING GUIDE: A SIMPLE GUIDE FOR DESIGNERS AND COMMUNITIES (LMP, 1991) TO ASSIST THE SELECTION OF APPROPRIATE VEGETATION.
- SIDE-SLOPES, EMBANKMENTS AND THE UPPER STAGE OF THE POND SHOULD BE MOWED AT LEAST ONCE DURING THE GROWING SEASON PREFERABLE AFTER AUGUST 15TH, TO PREVENT UNWANTED WOODY GROWTH. MOWINGS CAN BE MORE FREQUENT IN RESIDENTIAL AREAS IF A MORE GROOMED APPEARANCE IS DESIRED HOWEVER GROOMED AREAS (SHORT GRASS) WILL ATTRACT CANADIAN GEESE. LONGER MORE NATURAL GRASS WILL BENEFIT OTHER SPECIES OF WILDLIFE. ALL TRASH AND LITTER SHALL BE REMOVED FROM THE POND DURING MOWING OPERATIONS.
- SEDIMENTS SHALL BE REMOVED FROM THE POND DURING THE FIRST YEAR OF OPERATION AND EVERY 10 YEARS THEREAFTER. MORE FREQUENT REMOVALS MAY BE NECESSARY IF THE SEDIMENT STORAGE CAPACITY OF THE FOREBAY OR POND IS EXCEEDED.
- THE DETENTION POND(S) OUTLET AND OUTFLOW CHANNEL SHALL BE INSPECTED AT LEAST TWICE PER YEAR. INSPECTIONS SHALL BE ACCOMPLISHED SEVERAL TIMES DURING THE FIRST SIX MONTHS OF OPERATIONS, ESPECIALLY AFTER RAINFALL EVENTS, TO CHECK FOR CLOGGING OR TOO RAPID RELEASE RESULTING IN EROSION.
- IF STANDING WATER IS FOUND IN EITHER POND MORE THAN (3) DAYS AFTER A RAINFALL EVENT, THE POND(S) SHALL BE DETERMINED TO HAVE FAILED AND THE OWNER SHALL BE RESPONSIBLE TO HAVE THE POND(S) CHECKED BY A PROFESSIONAL REGISTERED ENGINEER AND REPAIRED OR REPLACED IMMEDIATELY.
- THE GRASSED AREAS SHALL BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION PROBLEMS. PROBLEM AREAS SHALL BE RE-SEED IMMEDIATELY TO STABILIZE EXPOSED SOIL, THEREBY PREVENTING EROSION AND POTENTIAL CLOGGING OF OUTFLOW DEVICES.
- AN AREA SHALL BE SET ASIDE IN THE DEVELOPMENT SITE IN AN UPLAND LOCATION OUTSIDE OF JURISDICTIONAL WETLANDS FOR THE PURPOSE OF SEDIMENT DISPOSAL, IF AN OFF SITE DISPOSAL AREA IS NOT FEASIBLE.
- MOWING SHALL OCCUR WHEN VEGETATION REACHES A HEIGHT BETWEEN 18 AND 24 INCHES. MOWING SHALL UTILIZE A ROTARY MOWER SET AT A HEIGHT OF 8 INCHES.

SWALE MAINTENANCE NOTES

- SWALES SHOULD BE MOWED AT LEAST ONCE PER GROWING SEASON TO PREVENT ESTABLISHMENT OF WOODY GROWTH AND OTHER UNDESIRABLE PLANTS THAT INHIBIT PROPER PERFORMANCE. GRASS VEGETATION SHOULD NOT BE CUT SHORTER THAN 4 INCHES. IT IS IMPORTANT NOT TO ENGAGE IN EXCESSIVE MOWING OPERATIONS, AS THIS KEEPS THE GRASS TOO SHORT AND DECREASES THE EFFICIENCY OF THE VEGETATION TO REDUCE RUNOFF BORNE SEDIMENTS AND VELOCITIES.
- BARE SPOTS AND ERODED AREAS WITHIN THE SWALE MUST BE RESEED IMMEDIATELY FOLLOWING OBSERVATIONS TO PREVENT SUBSEQUENT FAILURE OF THE SYSTEM.
- SWALES SHOULD BE INSPECTED ON A SEMI-ANNUAL BASIS. ALL TRASH AND OTHER LITTLE MUST BE REMOVED DURING INSPECTION.
- SEDIMENTS SHOULD BE REMOVED AT LEAST ONCE PER YEAR OR MORE FREQUENTLY IF SEDIMENTS ARE OVER TOPPING CHECK-DAMS. ACCUMULATED SEDIMENTS MUST BE REMOVED MANUALLY TO PREVENT DAMAGE TO THE SWALE. RESEEDING MAY BE NECESSARY AFTER SEDIMENT REMOVAL OPERATIONS, ESPECIALLY IF EXCESSIVE DAMAGE IS DONE TO VEGETATION.

CULVERT MAINTENANCE NOTES

- ALL TRASH AND LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY INCLUDING INLET AND OUTLET STRUCTURES, FLARED END SECTIONS (FES) AND CULVERTS. MAINTENANCE OF THIS TYPE IMPROVES THE PHYSICAL APPEARANCE OF THE FACILITY AND PREVENTS BLOCKAGE OF INLET/OUTLET STRUCTURES, THEREBY AVERTING FAILURE OF THE STRUCTURE. INSPECTIONS AND MAINTENANCE SHALL BE ACCOMPLISHED AT LEAST TWICE PER YEAR, PREFERABLY SPRING AND FALL.
- REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES, RIP-RAP CHANNELS OR OTHER STORMWATER FACILITIES SHALL BE DONE WITH 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.

LONG TERM MAINTENANCE RESPONSIBILITY:

WHEN ALL CONSTRUCTION IS COMPLETE, THE SITE HAS BEEN STABILIZED TO PREVENT EROSION AND SEDIMENTATION BY A WELL ESTABLISHED VEGETATIVE COVER AND THE DRAINAGE IMPROVEMENTS HAVE BEEN INSPECTED AND ACCEPTED BY THE TOWN OF SCITUATE, THE PARTY RESPONSIBLE FOR LONG TERM MAINTENANCE, INSPECTION AND REPAIRS TO ALL DRAINAGE FACILITIES SHOWN ON THESE PLANS, SHALL BE THE TOWN OF SCITUATE.

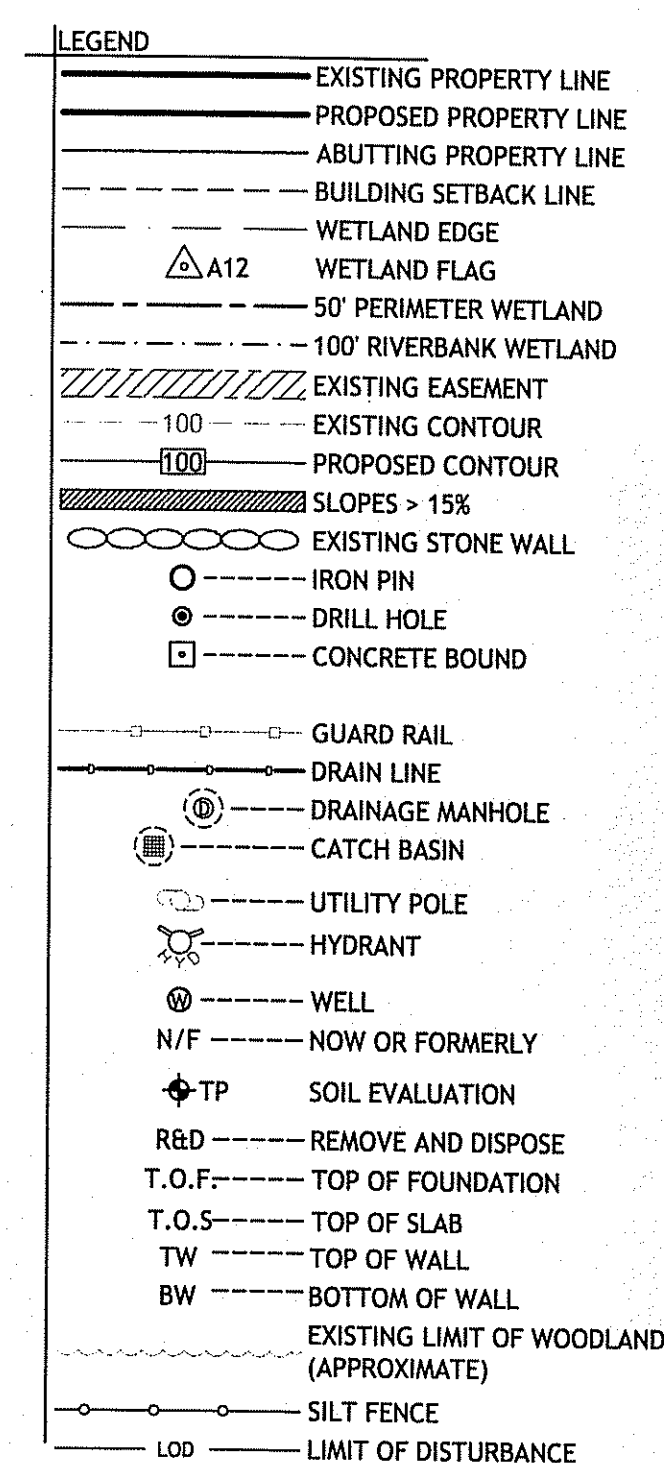
DETENTION BASIN CONSTRUCTION NOTES:

- DETENTION BASIN BERM AREAS ARE TO BE CONSTRUCTED WITH COMMON BORROW COMPACTED TO 95% AND THEN LOAMED AND SEEDED.
- TREES AND SHRUBS SHALL NOT BE PLANTED ON ANY IMPOUNDING EMBANKMENT.
- DISTURBED AREAS ARE TO BE LOAMED A MINIMUM OF 6" AND SEEDED WITH A CONSERVATION TYPE MIXTURE.
- ALL CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE "RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK".

WATERWAYS, DRAINAGE DITCHES, DETENTION BASINS, Etc.

	LBS/ ACRE	LBS/ 1000 FT.
CREeping RED FESCUE	20	.45
TALL FESCUE OR REED CANARYGRASS	20	.45 *USE

* REED CANARYGRASS WHERE MOWING IS NOT REQUIRED.
(Source: USDA, Soil Conservation Service)



CDEF
CASALI & DAMICO ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION - FLOODPLAIN
DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN
1000 W. MAIN ST., WARREN, RI 02886
(401) 944-3300 (401) 944-3333 www.casaliandamico.com

JOSEPH A. CASALI
No. 7250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
1.8.08

NORTH SCITUATE ESTATES
PLAINFIELD PIKE
SCITUATE, RHODE ISLAND
AP 43 LOTS 1, 2 & 116

REVISED
SEP 10 2008

REVISIONS:

NO.	DATE	DESCRIPTION
1	4/07	MASTER PLAN SUBMISSION
2	5/07	TOWN ENGINEER COMMENTS
3	7/07	PLAN COMMISSION COMMENTS
4	8/07	PLAN COMMISSION COMMENTS
5	5/08	RIDEM SUBMISSION
6	9/08	RIDEM COMMENTS

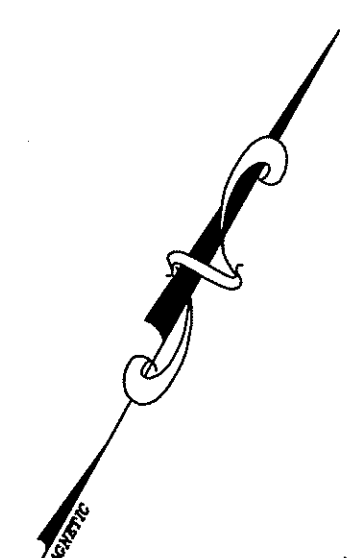
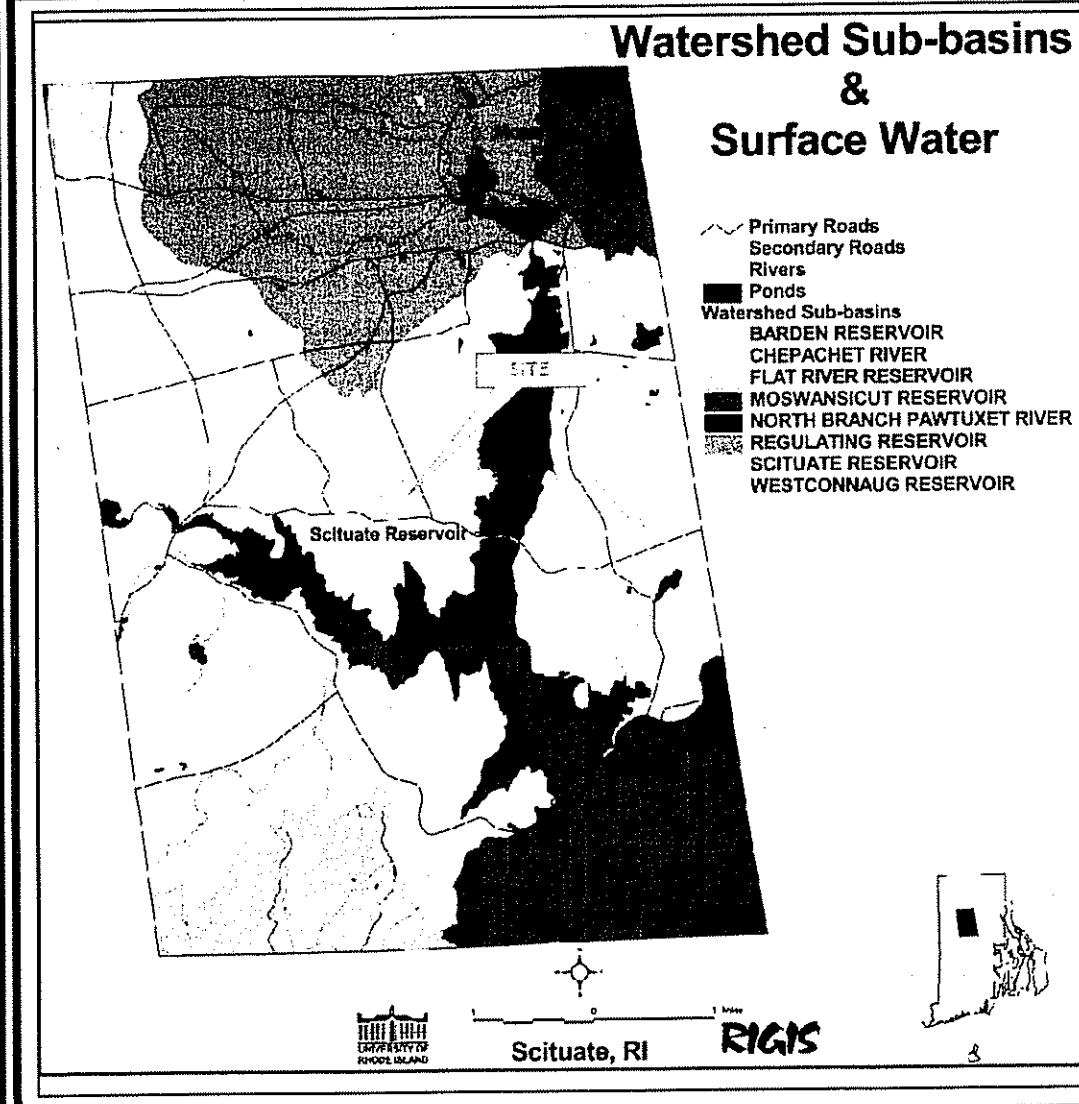
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 23 2008 FILE # 08-0148
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

DRAWN BY: JDC
CHECKED BY: JACI NCW
DATE: DECEMBER 2007
PROJECT NO: 06-52h

GENERAL NOTES & LEGEND

SHEET 2 OF 11

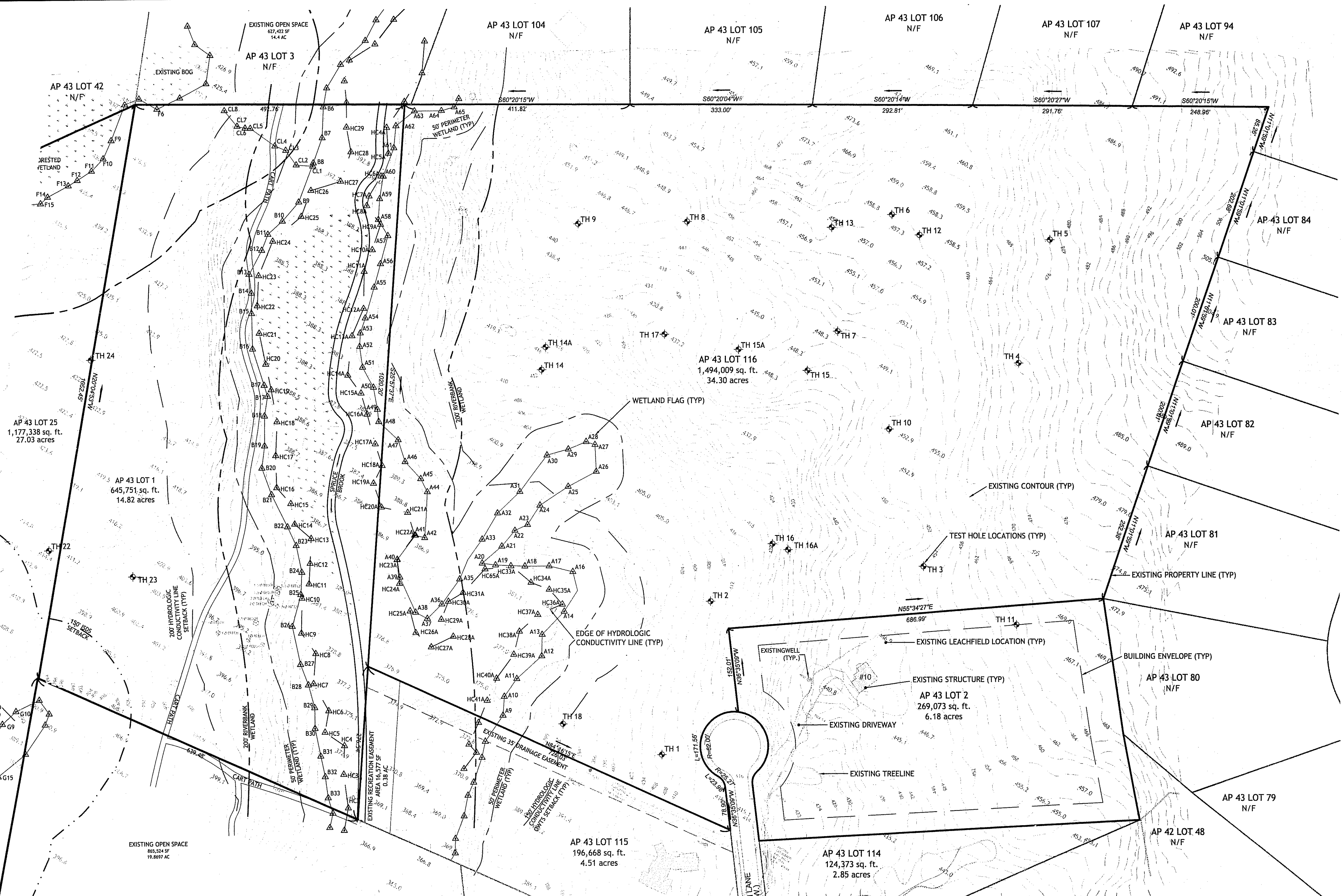
WATERSHED SUB-BASIN (NOT TO SCALE)



TEST PIT INFORMATION

TEST PIT NO.	ELEV. (FT) (EXISTING)	SHGW (FT)
TH 1	407	399
TH 2	410	402
TH 3	454	444
TH 4	470.50	462.50
TH 5	476.5	466.5
TH 6	458	455.8
TH 7	450	447.10
TH 8	448	440
TH 9	444.5	437
TH 10	452.5	444.5
TH 11	464	454
TH 12	458.15	456
TH 13	458.50	455.50
TH 14	413	407
TH 14A	417	412.75
TH 15	446	440
TH 15A	445	438
TH 16	420.50	418.30
TH 16A	427	419
TH 17	436.25	432.60
TH 18	392	383

TH 1 - TEST HOLE LOCATIONS



GENERAL NOTES:

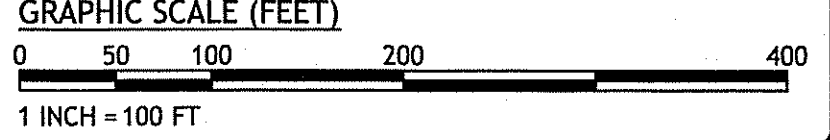
- CLASS IV PROPERTY LINE AND CLASS III TOPOGRAPHIC SURVEY COMPLETED BY NATIONAL LAND SURVEYORS, 42 HAMLET AVE, WOONSOCKET RI.
- THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
- THIS SITE LIES IN ZONE C (AREAS OF MINIMAL FLOODING - ENTIRELY OUTSIDE THE 100-YEAR AND 500-YEAR FLOODPLAINS), AS SHOWN ON THE FIRM MAP FOR THE TOWN OF SCITUATE, RI COMMUNITY PANEL NUMBERS FM4400240005B, FM4400240010B, FM4400240015B, AND FM4400240020B MAP REVISED JANUARY 2, 1981. HOWEVER ALL STREAMS HAVE AN ASSOCIATED FLOOD PLAN.
- ACCORDING TO THE SOIL SURVEY OF RHODE ISLAND, PREPARED BY THE US DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, SOILS ON THE SITE CONSIST OF CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY; PAXTON VERY STONY FINE SANDY LOAM; RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS AND WOODBRIDGE VERY STONY FINE SANDY LOAM
- WETLAND RESOURCES DELINEATED BY NATURAL RESOURCE SERVICES IN DECEMBER, 2006. AS REQUIRED BY RIDEM-ISDS THE HYDROLOGIC CONDUCTIVITY LINE (HC-SERIES) WAS DELINEATED BY NATURAL RESOURCE SERVICES IN DECEMBER 2006 TO ESTABLISH LOCATION FOR REQUIRED ISDS SETBACKS WITHIN THE SCITUATE RESERVOIR WATERSHED.
- THIS SITE IS ENTIRELY WITHIN THE SCITUATE RESERVOIR WATERSHED.
- NO PUBLIC WATER, SEWER OR GAS AVAILABLE.
- NO KNOWN CEMETERIES ON OR ADJACENT TO THE SUBJECT PROPERTY.
- TOTAL AREA OF LOTS (1, 2 & 116) IS APPROXIMATELY 2,408,833 S.F. = 55.30 ACRES.

ZONING CRITERIA-	REQUIRED
ZONING DISTRICT	RR 120
MINIMUM LOT SIZE	120,000 SF
MINIMUM LOT WIDTH	300 FT
MINIMUM FRONT YARD SETBACK	50 FT
MINIMUM SIDE YARD SETBACK	35 FT
MINIMUM REAR YARD SETBACK	60 FT
MAXIMUM BUILDING COVERAGE	15%
MAXIMUM BUILDING HEIGHT	36 FT

NOTES:
1. "MINIMUM LOT WIDTH IN RR-120 DISTRICTS IS THE DISTANCE BETWEEN THE SIDE LINES OF A LOT, MEASURED AT THE REQUIRED FRONT YARD DEPTH WHICH IS FIFTY (50) FEET AND WHICH DISTANCE SHALL BE MAINTAINED FOR AT LEAST ONE HUNDRED (100) FEET BACK FROM THE POINT OF REQUIRED MINIMUM LOT WIDTH." SECTION 1 OF THE TOWN OF SCITUATE ZONING ORDINANCE.

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

Nancy L. Freeman
NATIONAL
Surveyors-Developers
Inc.
42 Hamlet Ave., Woonsocket, RI.
(401) 789-7779



C:\03-52-National Land Surveyors\06-52h-5-French\ACAD\Plan-Set\US-FRENCH (PLAN-SET).dwg Sep. 08, 2008 12:17pm



LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL **DIGSAFE** AT **1-888-DIG-SAFE** OR **1-888-344-7233**



CDE
CASALI & D'AMICO ENGINEERING, INC.
DRAINAGE, WETLANDS, ISDS, TRAFFIC, FLOODPLAIN
300 POST ROAD, WARWICK, RI 02886
(401) 944-1300 (401) 944-1313 fax
www.casali-damico.com

JOSEPH A. CASALI
No. 7250
REGISTERED PROFESSIONAL ENGINEER CIVIL
9.8.08

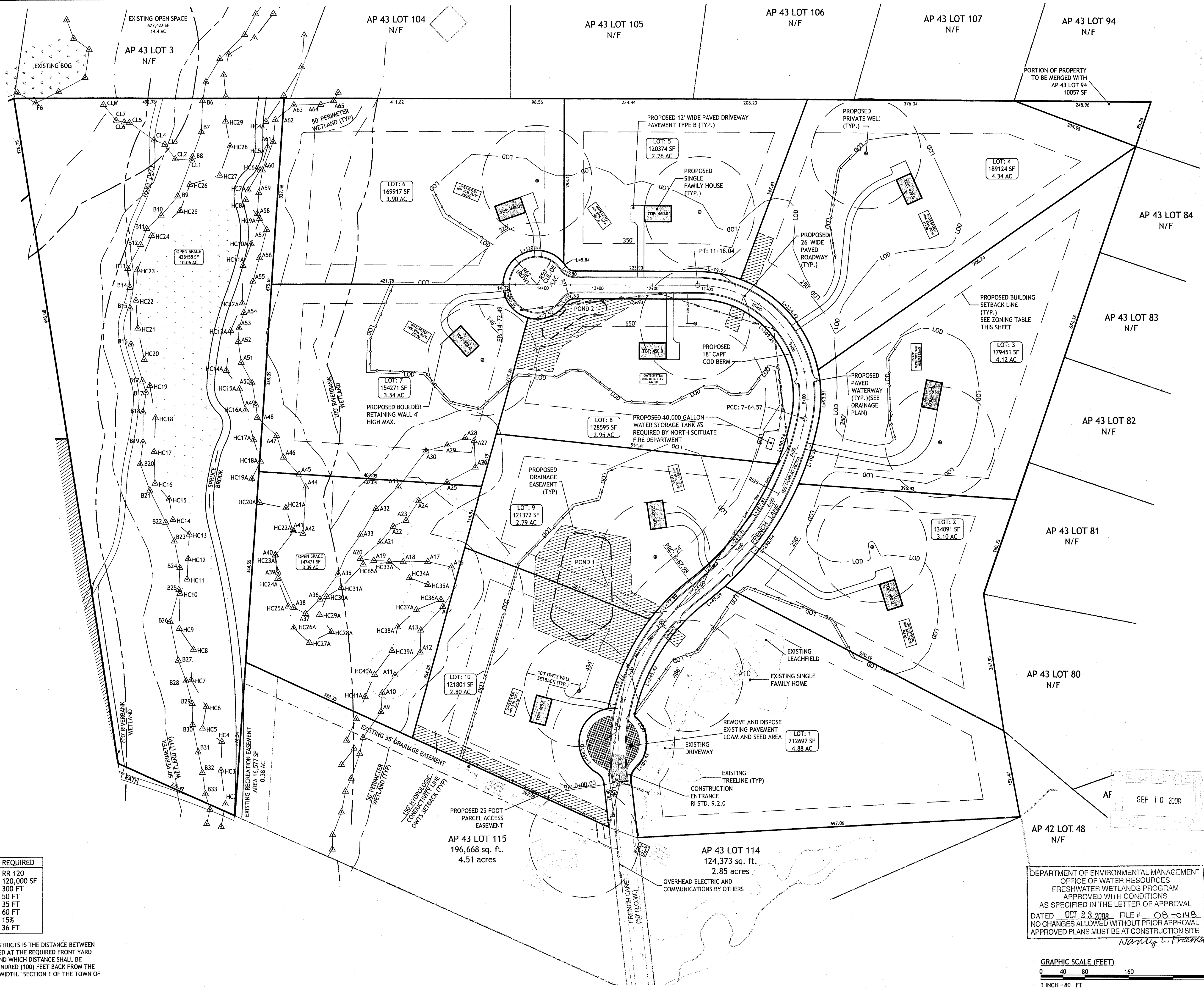
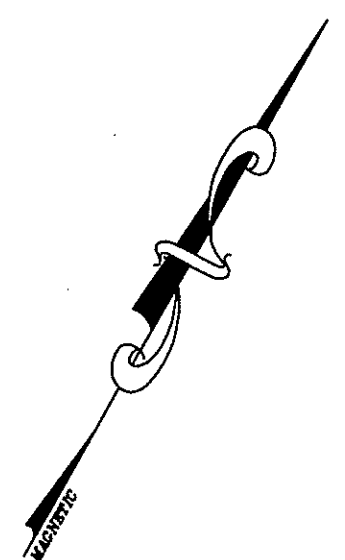
NORTH SCITUATE ESTATES
PLAINFIELD PIKE
SCITUATE, RHODE ISLAND
AP 43 LOTS 1, 2 & 116

REVISIONS:

NO.	DATE	DESCRIPTION
1	4/07	MASTER PLAN SUBMISSION
2	5/07	TOWN ENGINEER COMMENTS
3	7/07	PLAN COMMISSION COMMENTS
4	8/07	PLAN COMMISSION COMMENTS
5	5/08	RIDEM SUBMISSION
6	9/08	RIDEM COMMENTS

DRAWN BY: JDC
CHECKED BY: JAC/NCW
DATE: DECEMBER 2007
PROJECT NO: 06-52h

EXISTING CONDITIONS PLAN



ZONING CRITERIA-	REQUIRED
ZONING DISTRICT	RR 120
MINIMUM LOT SIZE	120,000 SF
MINIMUM LOT WIDTH	300 FT
MINIMUM FRONT YARD SETBACK	50 FT
MINIMUM SIDE YARD SETBACK	35 FT
MINIMUM REAR YARD SETBACK	60 FT
MAXIMUM BUILDING COVERAGE	15%
MAXIMUM BUILDING HEIGHT	36 FT

NOTES:
 1. "MINIMUM LOT WIDTH IN RR-120 DISTRICTS IS THE DISTANCE BETWEEN THE SIDE LINES OF A LOT, MEASURED AT THE REQUIRED FRONT YARD DEPTH WHICH IS FIFTY (50) FEET AND WHICH DISTANCE SHALL BE MAINTAINED FOR AT LEAST ONE HUNDRED (100) FEET BACK FROM THE POINT OF REQUIRED MINIMUM LOT WIDTH." SECTION 1 OF THE TOWN OF SCITUATE ZONING ORDINANCE.

Q:\07-52-National Land Survey\06-52h-5-FrenchCAD\Plan-Set\5-FRENCH (PLAN-SET).dwg Sep. 08. 2008 12:12pm

CDE
 CASALI & D'AMICO ENGINEERING, INC.
 CIVIL SITE DESIGN, TRAFFIC ENGINEERING, SURVEYING, LAND ACQUISITION
 DRUMMONDVILLE, VERMONT
 300 POST ROAD, WARWICK, RI 02888
 (401) 944-1300 (401) 944-1313 fax www.casaliandamico.com

JOSEPH A. CASALI
 No. 7250
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 1828

NORTH SCITUATE ESTATES
PLAINFIELD PIKE
SCITUATE, RHODE ISLAND
AP 43 LOTS 1, 2 & 116

REVISIONS:

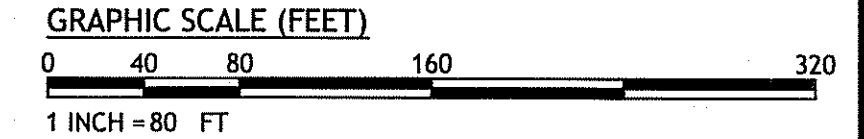
NO.	DATE	DESCRIPTION
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4	8/07	PLAN COMMISSION COMMENTS
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6	9/08	RIDEM COMMENTS

DRAWN BY: JDC
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 DATE: DECEMBER 2007
 PROJECT NO: 06-52h

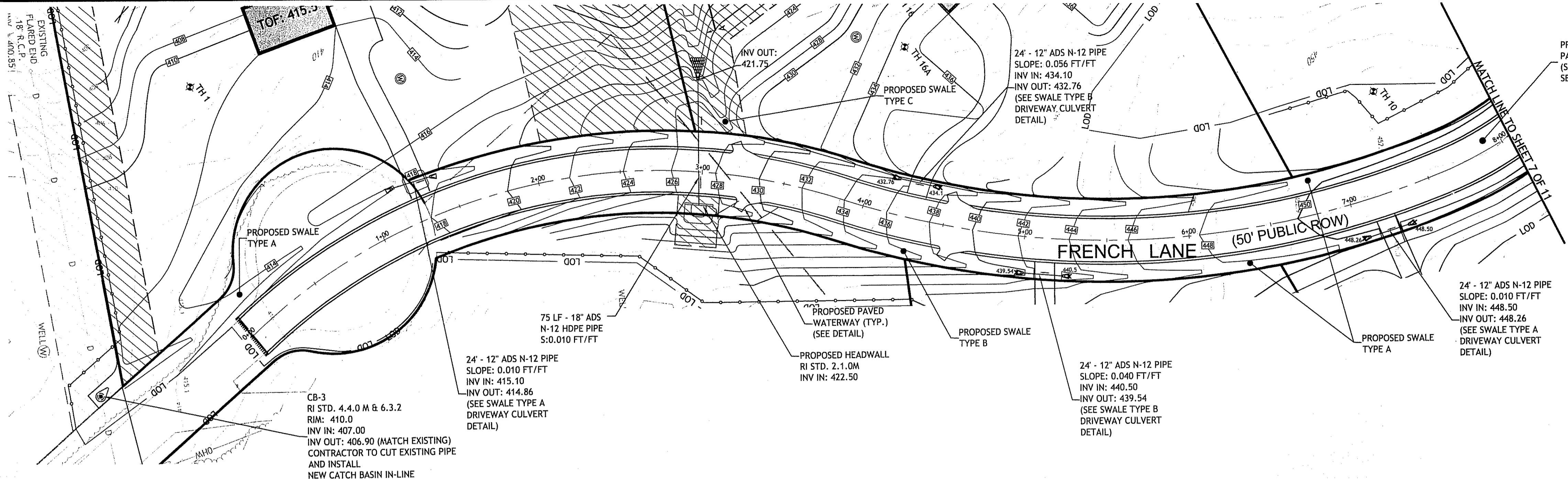
OVERALL SITE PLAN

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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Nancy L. Freeman

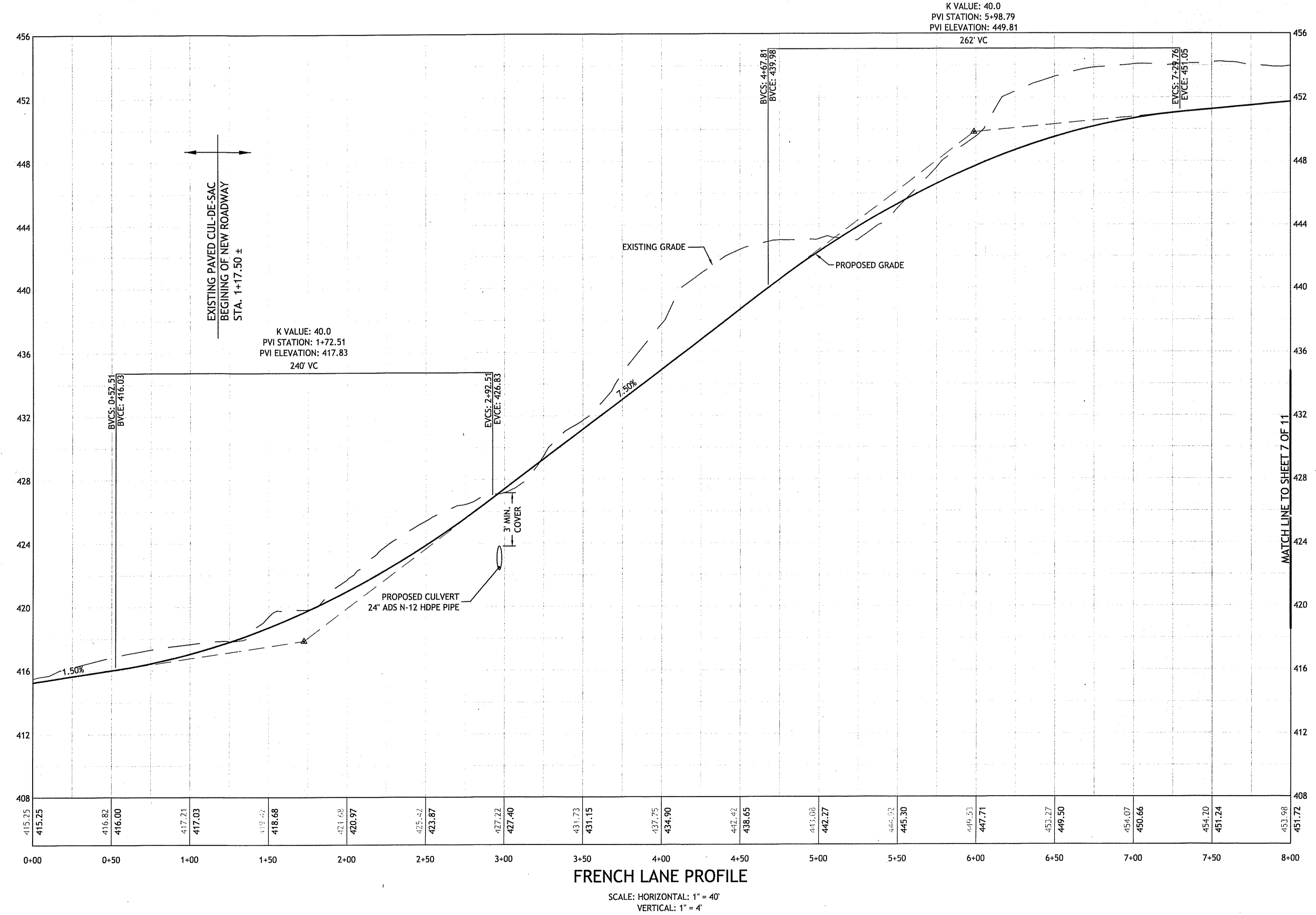


AF
 SEP 10 2008



PROPOSED 26' WIDE PAVED ROADWAY (SEE TYPICAL CROSS SECTION)

FRENCH LANE PLAN VIEW I
 SCALE: 1" = 40'
 GRAPHIC SCALE (FEET)
 0 20 40 80 160
 1 INCH = 40 FT



FRENCH LANE PROFILE
 SCALE: HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 4'

RECEIVED
 SEP 10 2008

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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 Nancy L. Freeman

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 CASALI & D'AMICO ENGINEERING, INC.
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION
 DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN
 300 POST ROAD, WARWICK, RI 02888
 (401) 944-1330 (401) 944-1333 fax www.casalieng.com

JOSEPH A. CASALI
 No. 7250
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 1-8-08

NORTH SCITUATE ESTATES
 PLAINFIELD PIKE
 SCITUATE, RHODE ISLAND
 AP 43 LOTS 1, 2 & 116

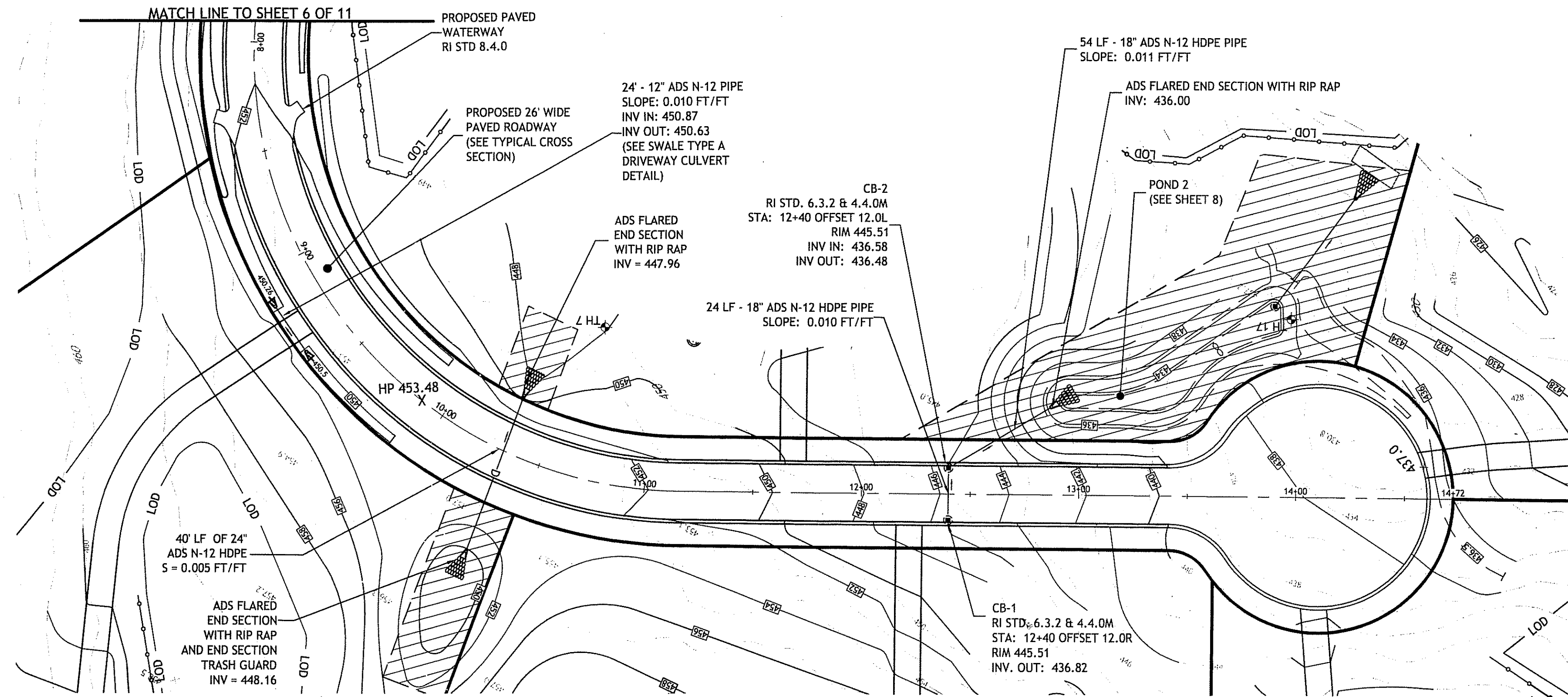
NO.	DATE	DESCRIPTION
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DRAWN BY: JDC
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 PROJECT NO: 06-52h

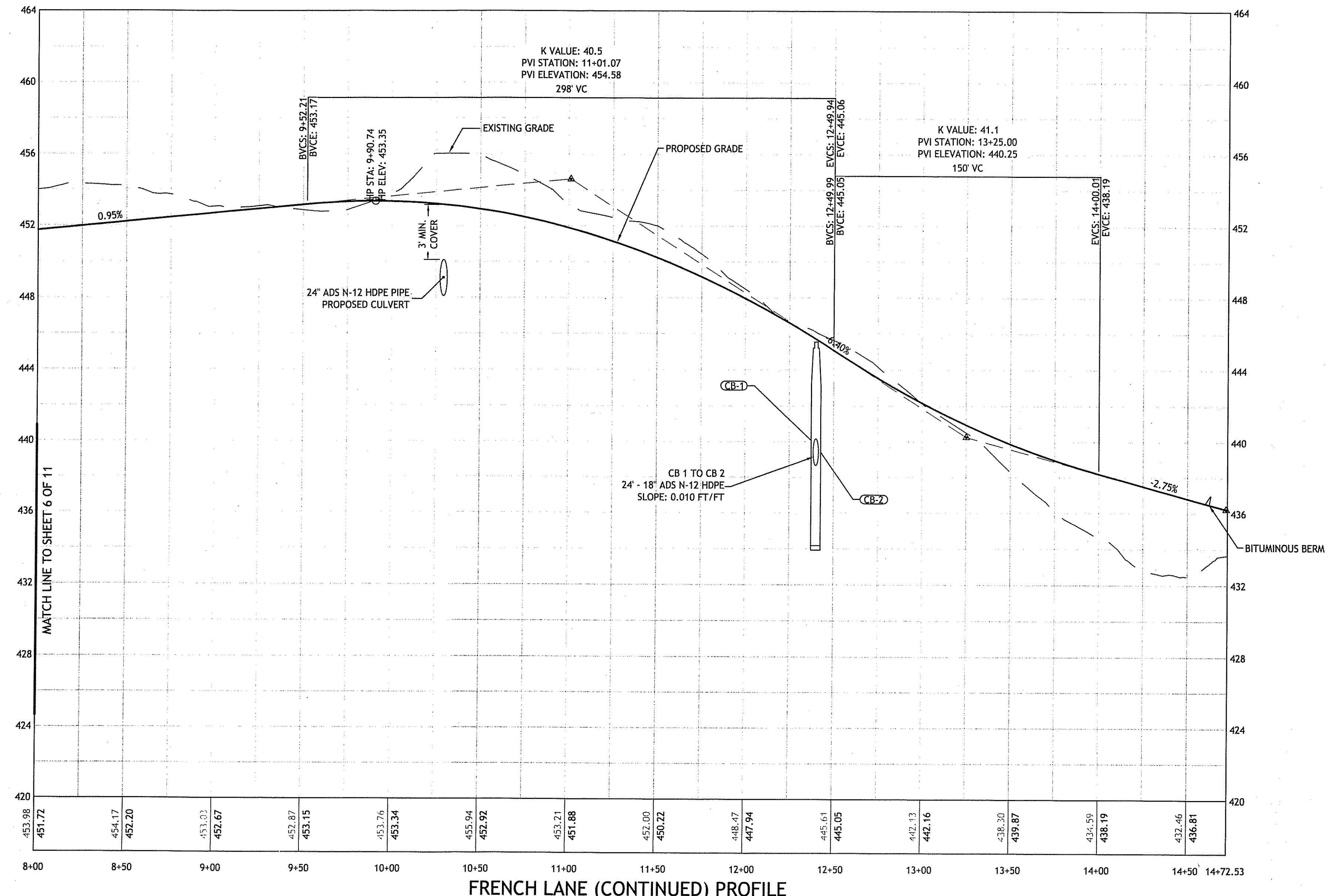
PLAN AND PROFILE 1

SHEET 6 OF 11

Q:\03-52-National Land Surveys\06-52h-5-French\ACAD\Plan-sets\FRENCH (PLANS)SET1.dwg Sep. 08. 2008 12:13pm



FRENCH LANE (CONTINUED) PLAN VIEW
 SCALE: 1" = 40'
 GRAPHIC SCALE (FEET)
 0 20 40 80 160
 1 INCH = 40 FT



FRENCH LANE (CONTINUED) PROFILE

SCALE: HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 4'

SEP 10 2008

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Nancy L. Freeman

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 CASALI & DIMICO ENGINEERING, INC.
 CIVIL, SURVEYING, EROSION CONTROL, FLOODPLAIN
 DRAINAGE, WETLANDS, EIDS, TRAFFIC, FLOODPLAIN
 300 POST ROAD, WARWICK, RI 02888
 (401) 944-1300 (401) 944-1313 fax www.casaldimico.com

JOSEPH A. CASALI
 No. 7250
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 CIVIL
 18-08

NORTH SCITUATE ESTATES
PLAINFIELD PIKE
SCITUATE, RHODE ISLAND
AP 43 LOTS 1, 2 & 116

REVISIONS:

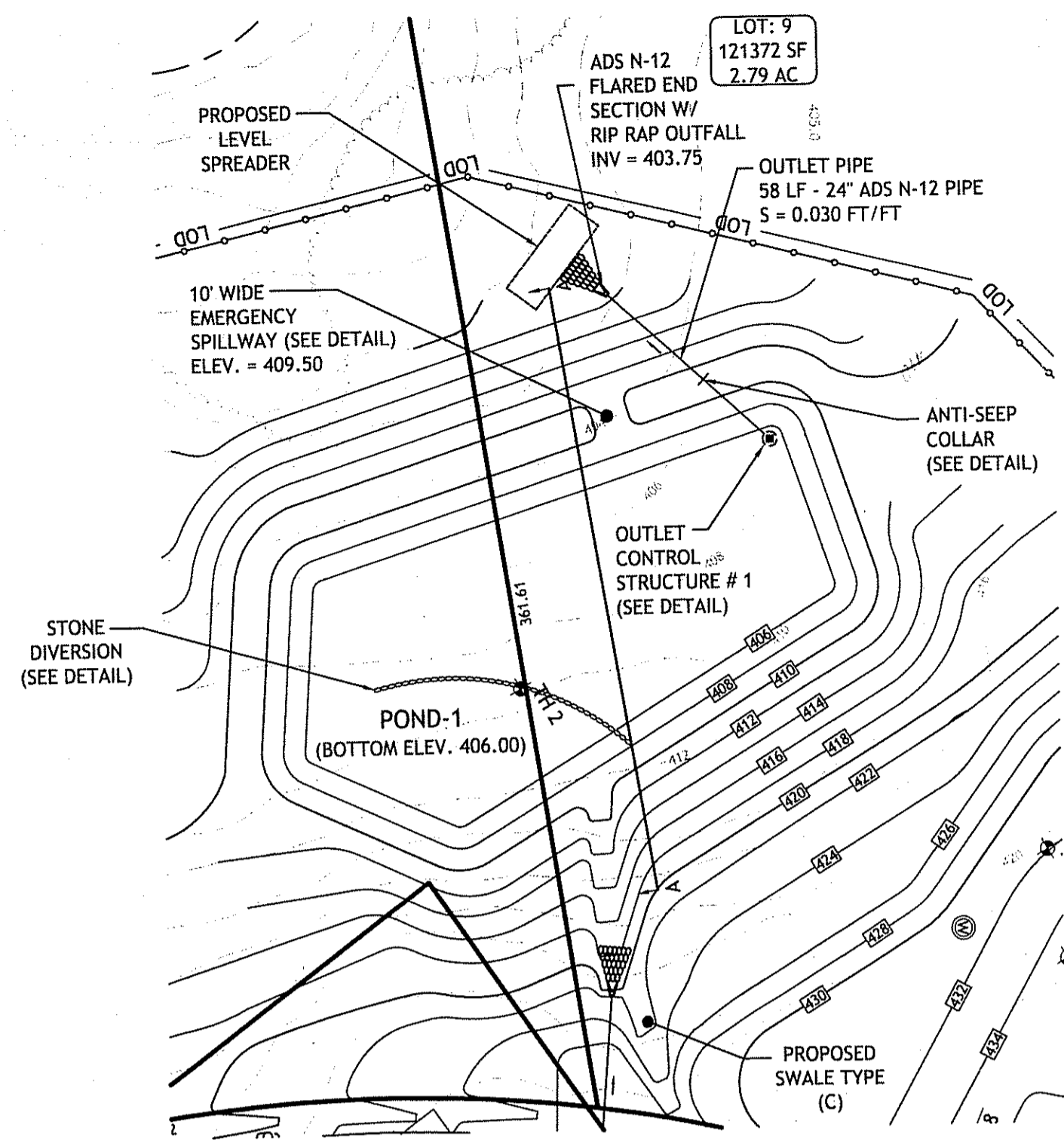
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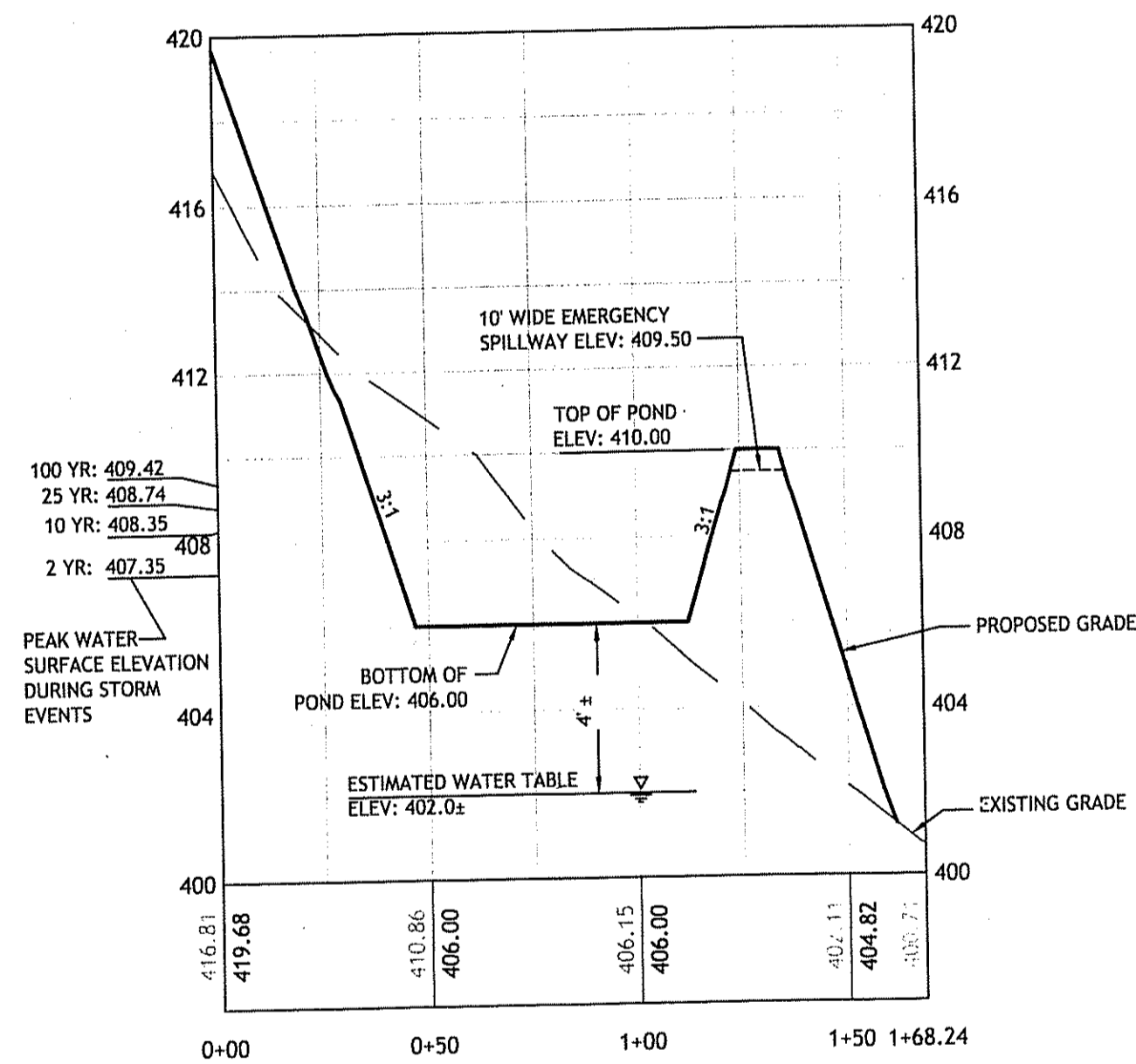
PLAN AND PROFILE 2

SHEET 7 OF 11

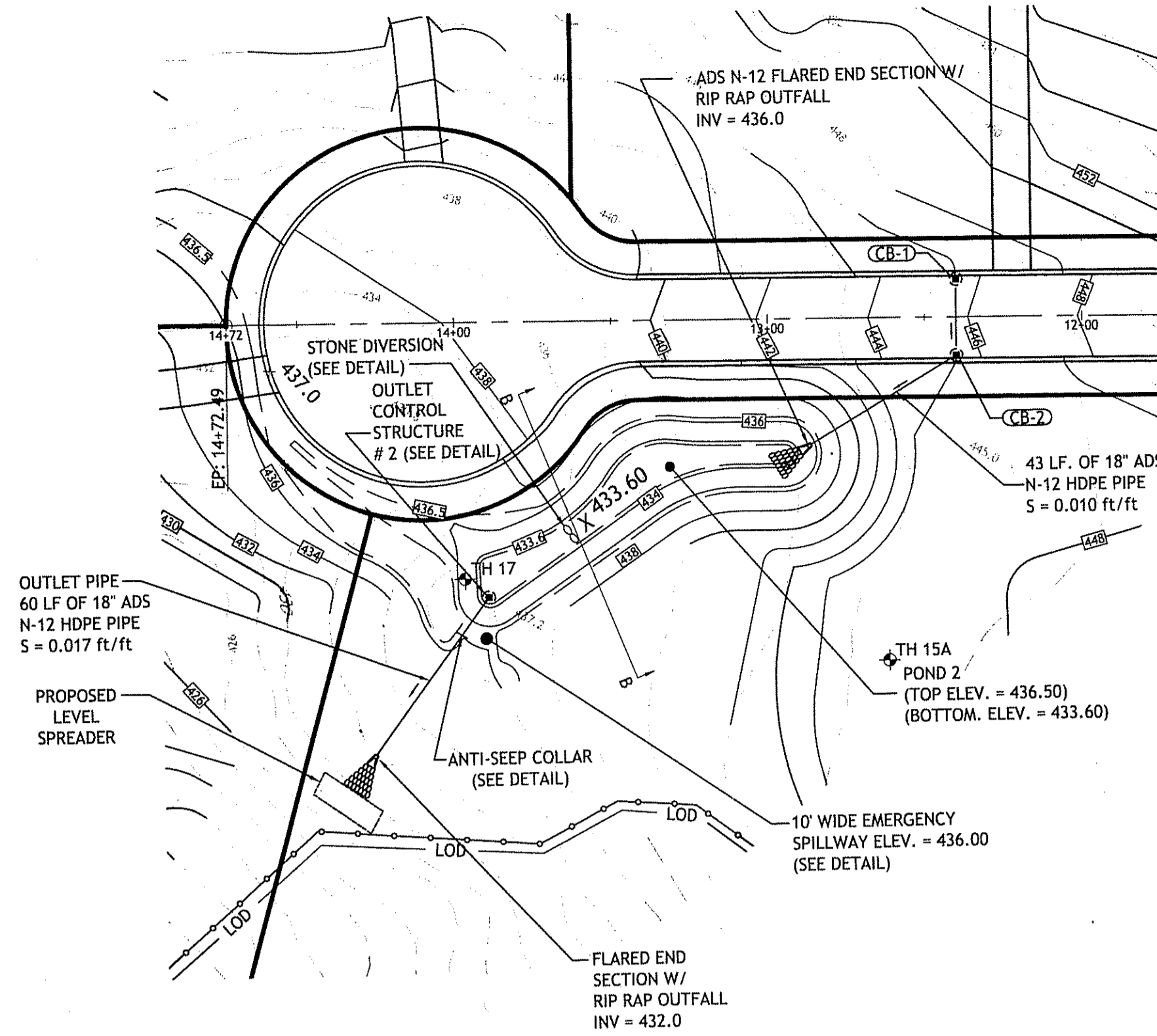
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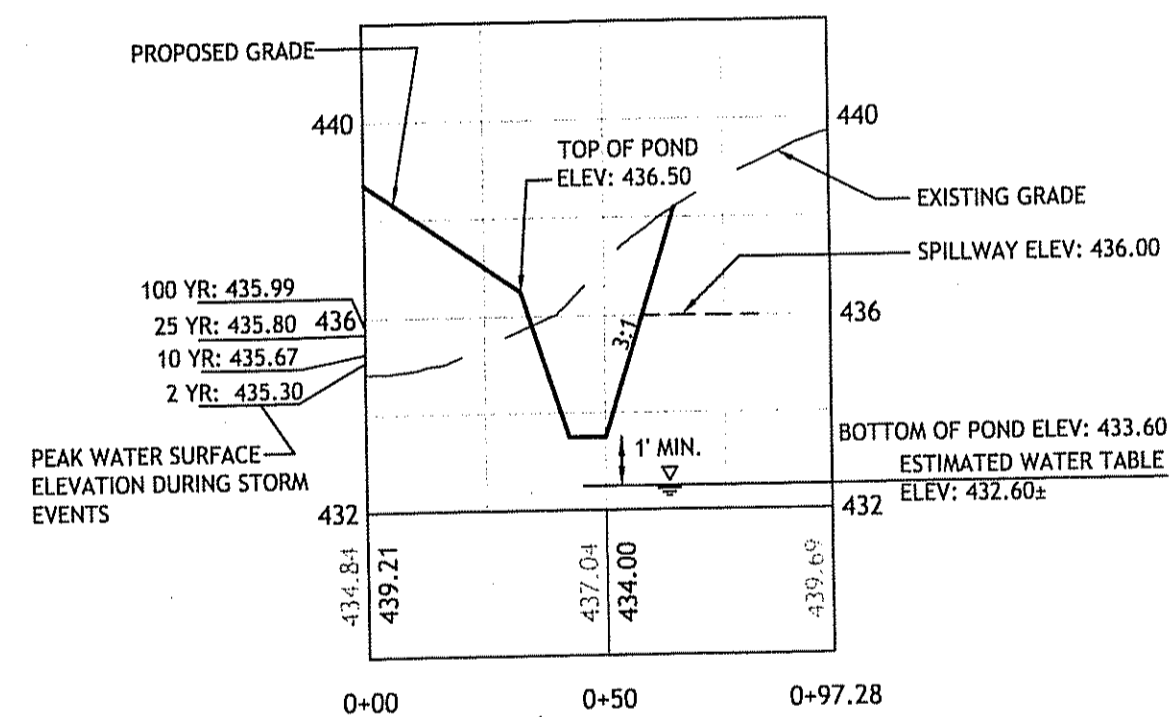
POND - 1 PLAN VIEW
SCALE: 1" = 40'



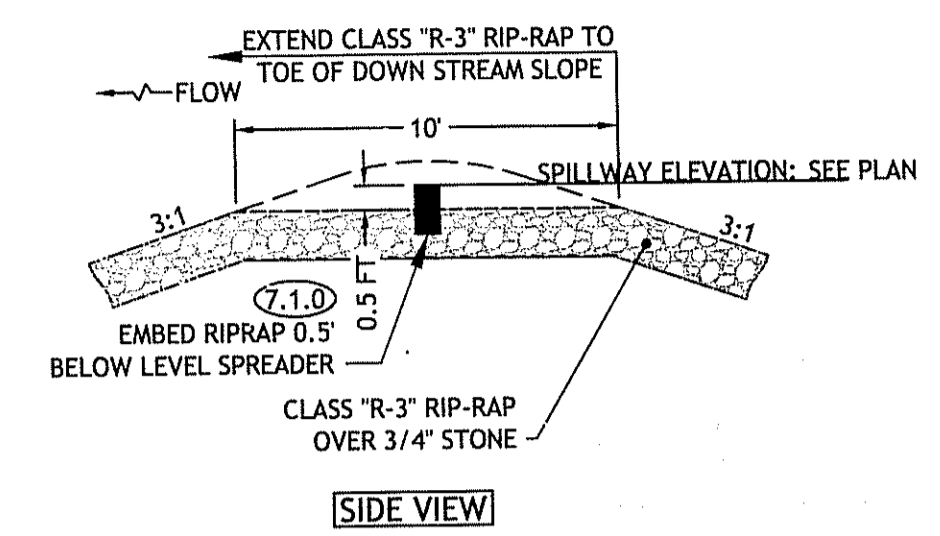
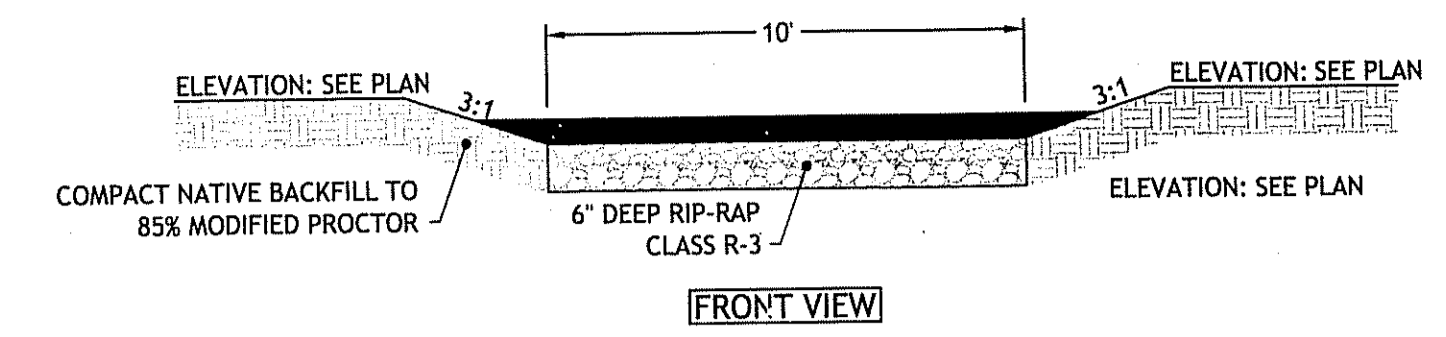
POND - 1 PROFILE SECTION A-A
SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'



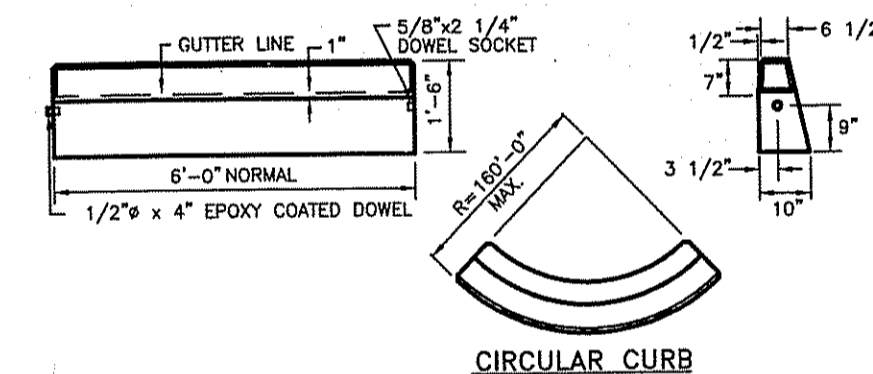
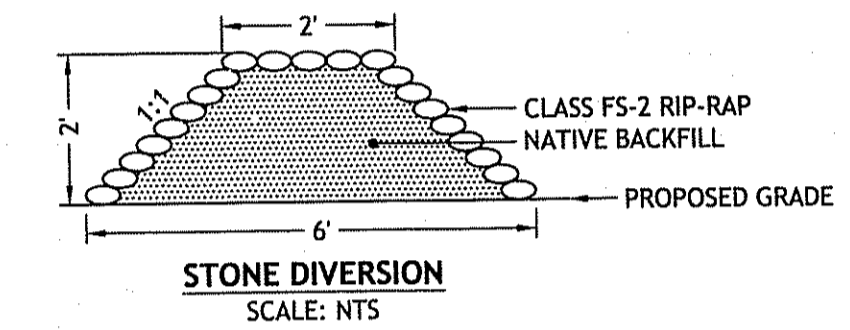
POND - 2 PLAN VIEW
SCALE: 1" = 40'



POND - 2 PROFILE SECTION B-B
SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'

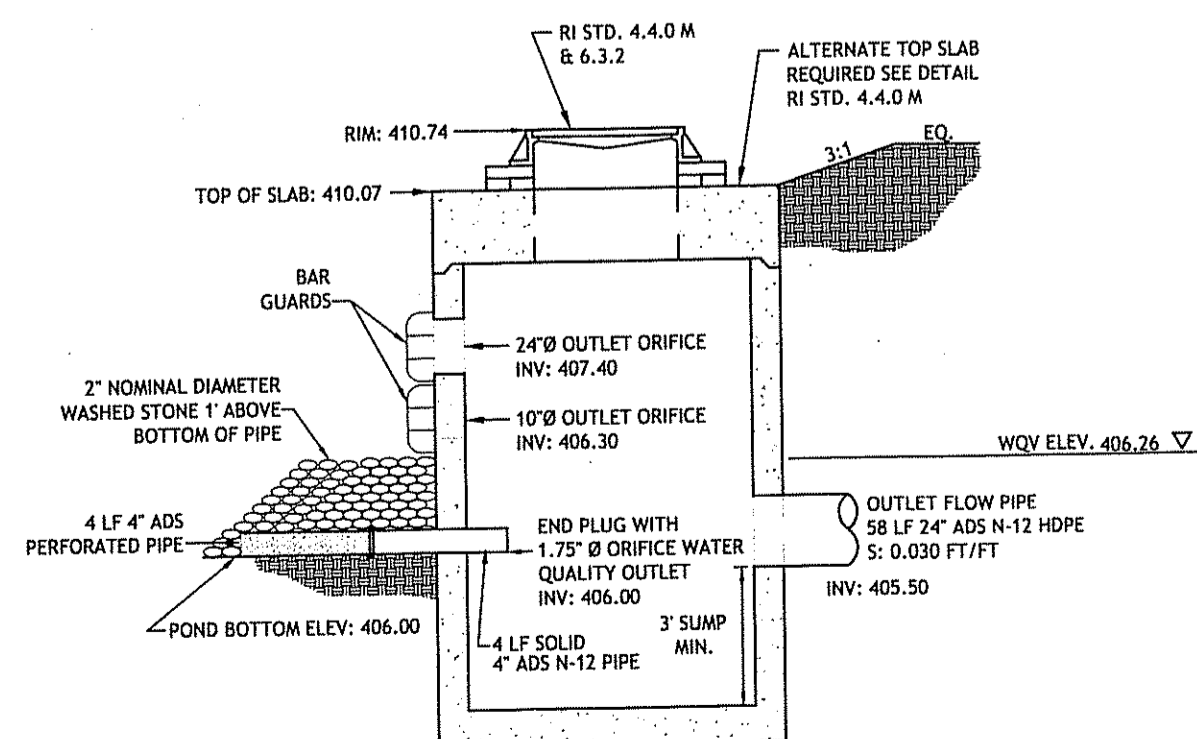


EMERGENCY SPILLWAY
SCALE: 1" = 4'

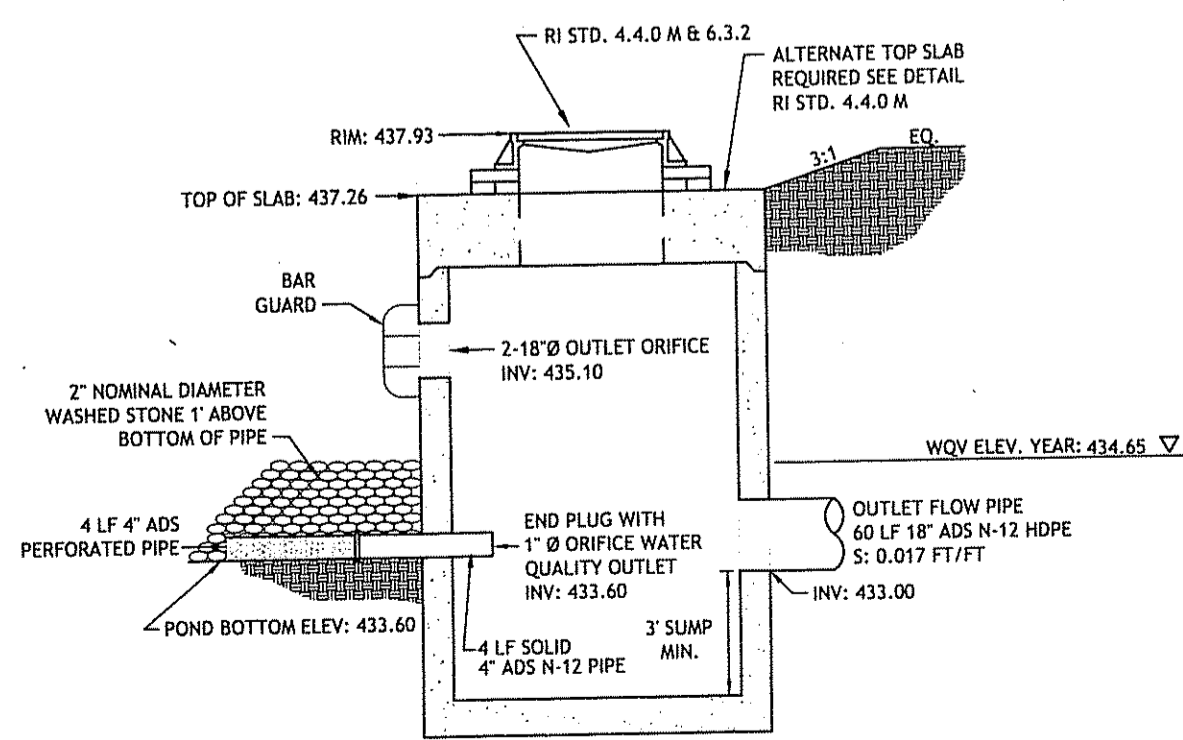


- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
 3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADI OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
 5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

PRECAST CONCRETE CURB STANDARD 7.1.0



OUTLET CONTROL STRUCTURE #1 (POND 1)
SCALE: NTS.

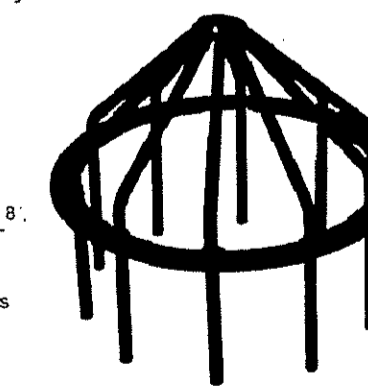


OUTLET CONTROL STRUCTURE #2 (POND 2)
SCALE: NTS.

NEW! Heavy Duty Bar Guards

Eliminate plugged inlets with Heavy Duty Bar Guard Intakes.

- Provides maximum flow rates
- Allows small trash to pass
- Constructed of 1/2" rod on 6", 5/16" rod on 8", 3/8" rod on 10", 1/2" rod on 12" through 30"
- Durable black powder coat finish for years of service



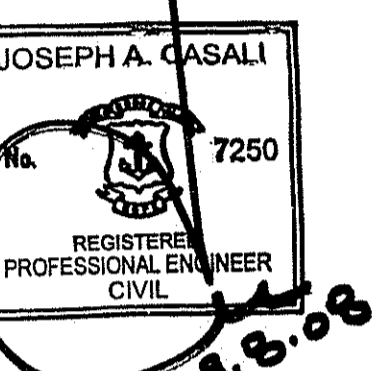
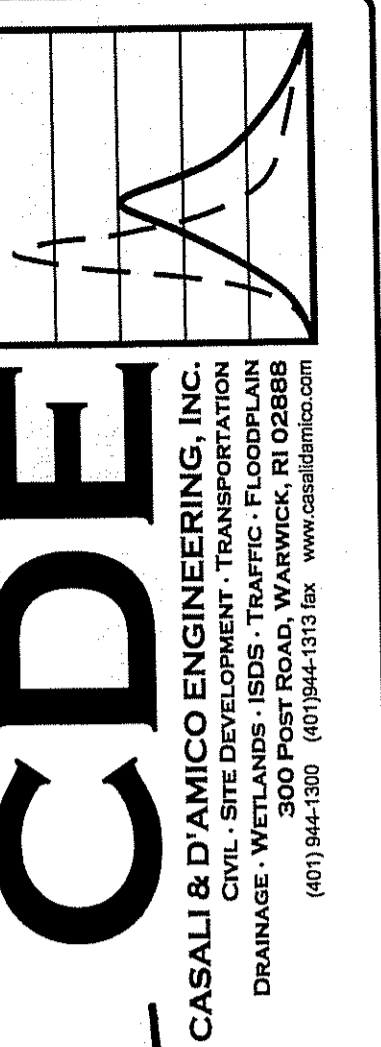
Bar Guard Size	Bar Diameter	Bar Spacing	Number Of Bars	Ring O.D.	Bar O.D.	Bar Depth	Weight (Approx.)
6"	1/2"	2"	8	7 1/2"	5 3/4"	3"	6.78"
8"	5/8"	2 1/2"	8	9"	7 1/4"	3"	8.20"
10"	3/4"	3"	8	10 1/2"	8 1/2"	3"	9.70"
12"	5/8"	3 1/2"	10	12 1/2"	10 1/2"	3"	11.50"
14"	3/4"	4"	10	14 1/2"	12 1/2"	3"	13.50"
16"	1/2"	4 1/2"	12	16 1/2"	14 1/2"	3"	15.50"
18"	1/2"	5"	12	18 1/2"	16 1/2"	3"	17.50"
20"	1/2"	5 1/2"	12	20 1/2"	18 1/2"	3"	19.50"
24"	1/2"	6"	12	24 1/2"	22 1/2"	3"	24.50"

Manufactured by **Agri Drain**
P.O. Box 458 • 14823 S40th Street • Adel, Iowa 50002
Phone: 1-800-220-4742 • Fax: 1-800-285-3033
www.agridrain.com • email: info@agridrain.com

SEP 10 2008

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Nancy L. Freeman



NORTH SCITUATE ESTATES
PLAINFIELD PIKE
SCITUATE, RHODE ISLAND
AP 43 LOTS 1, 2 & 116

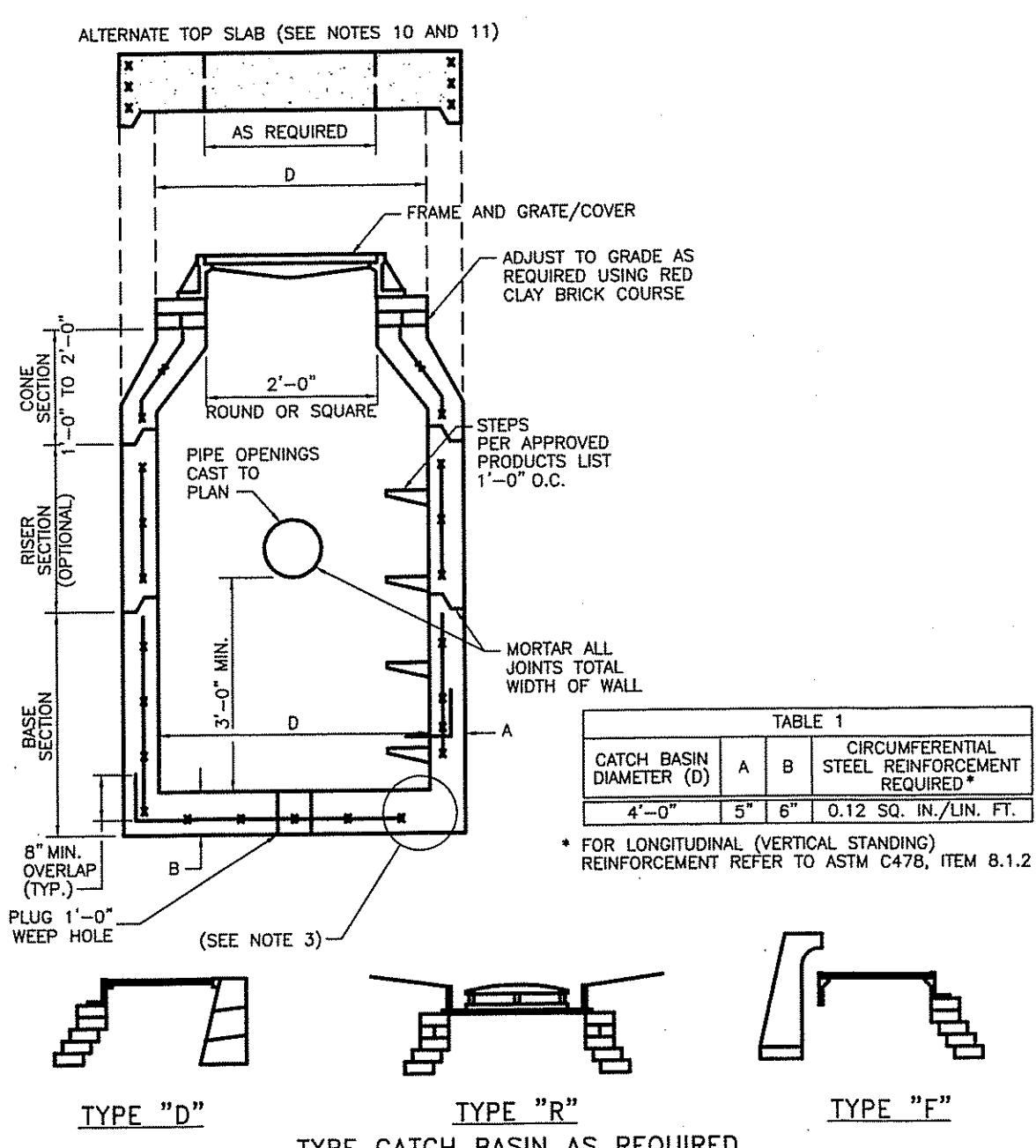
REVISIONS:

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DRAWN BY: JDC
CHECKED BY: JAC/NCW
DATE: DECEMBER 2007
PROJECT NO: 06-52b

POND SECTIONS

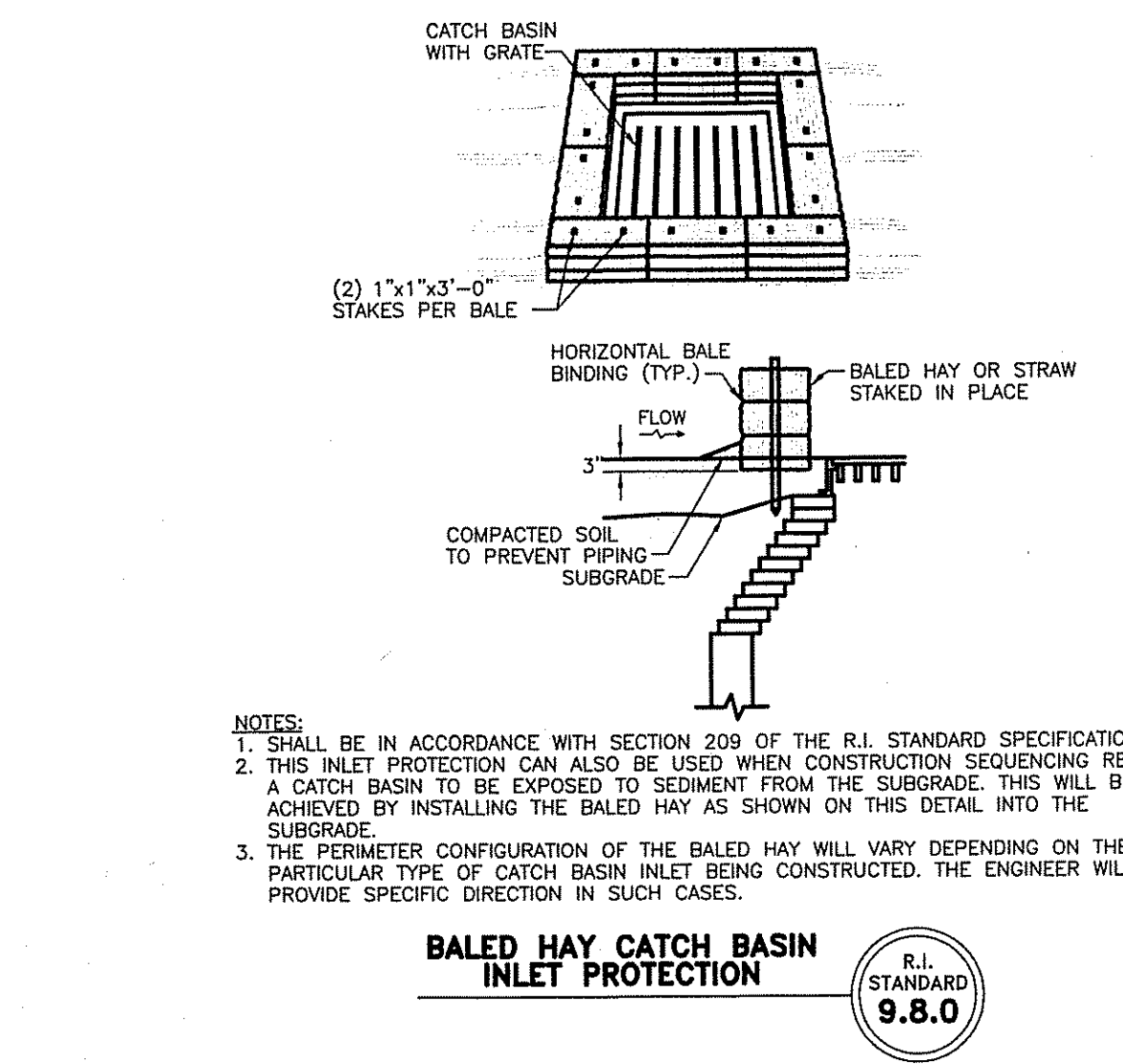
C:\03-52-National Land Survey\06-52b-5 French\ACAD\Plan-Set\5 FRENCH (PLAN-SET).dws Sep. 08, 2008 1:31pm



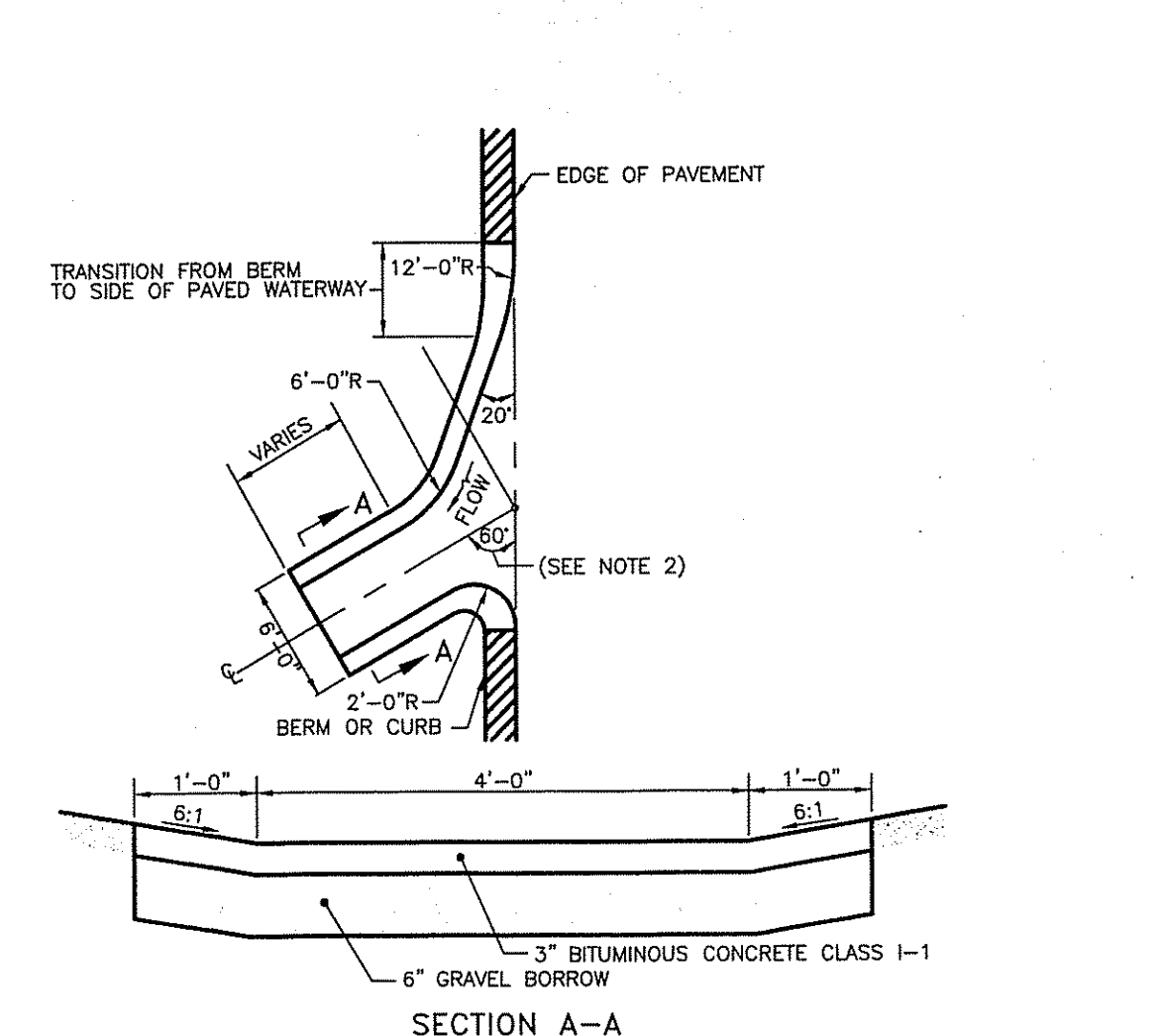
PRECAST 4'-0" ROUND CATCH BASIN
R.I. STANDARD 4.4.0

CONSTRUCTION ACCESS
R.I. STANDARD 9.9.0

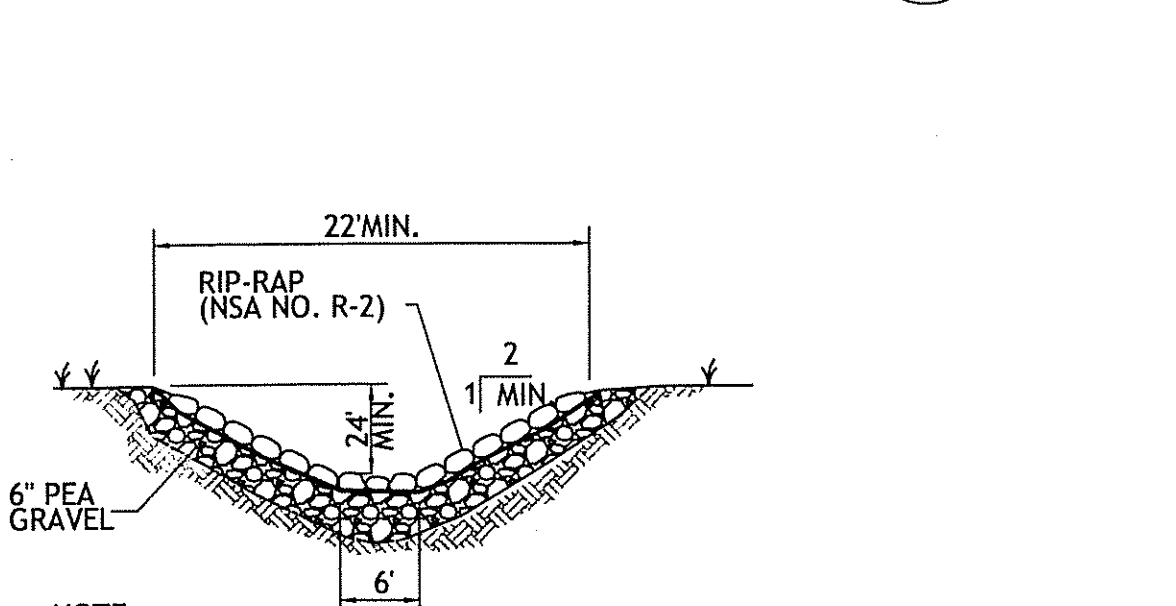
SWALE TYPE A
NOT TO SCALE



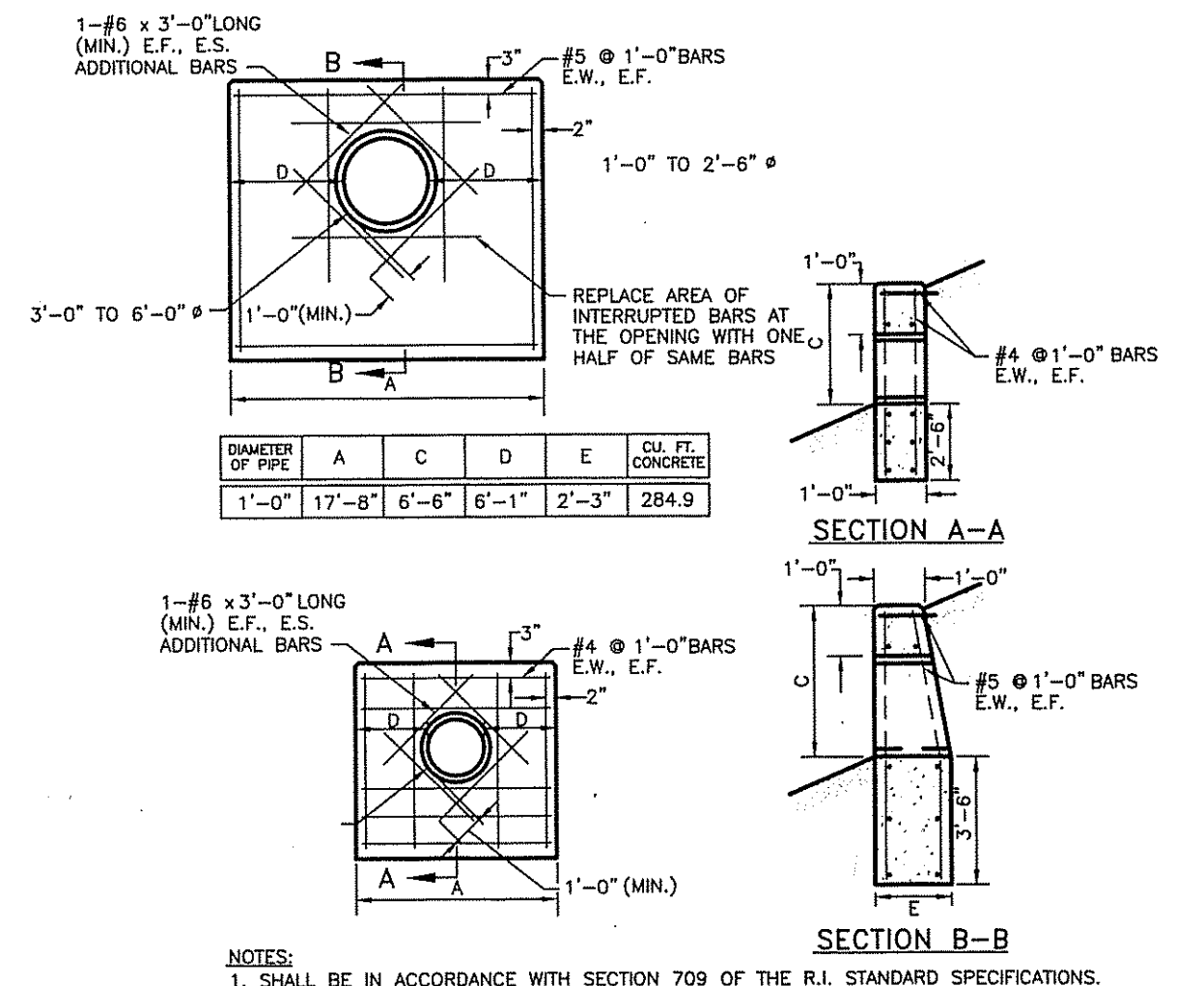
PAVED WATERWAY
R.I. STANDARD 8.4.0



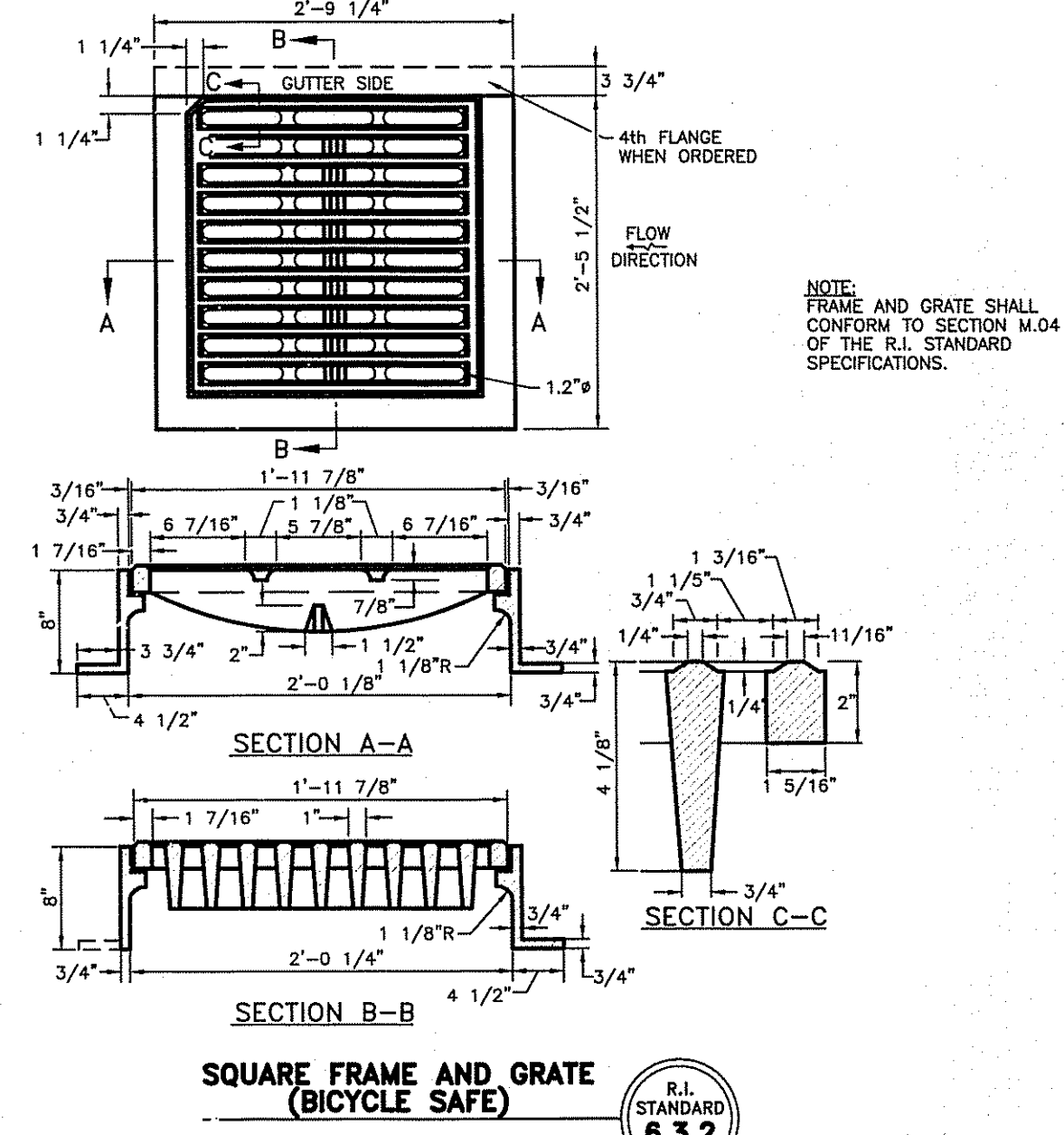
SWALE TYPE C DETAIL
NOT TO SCALE



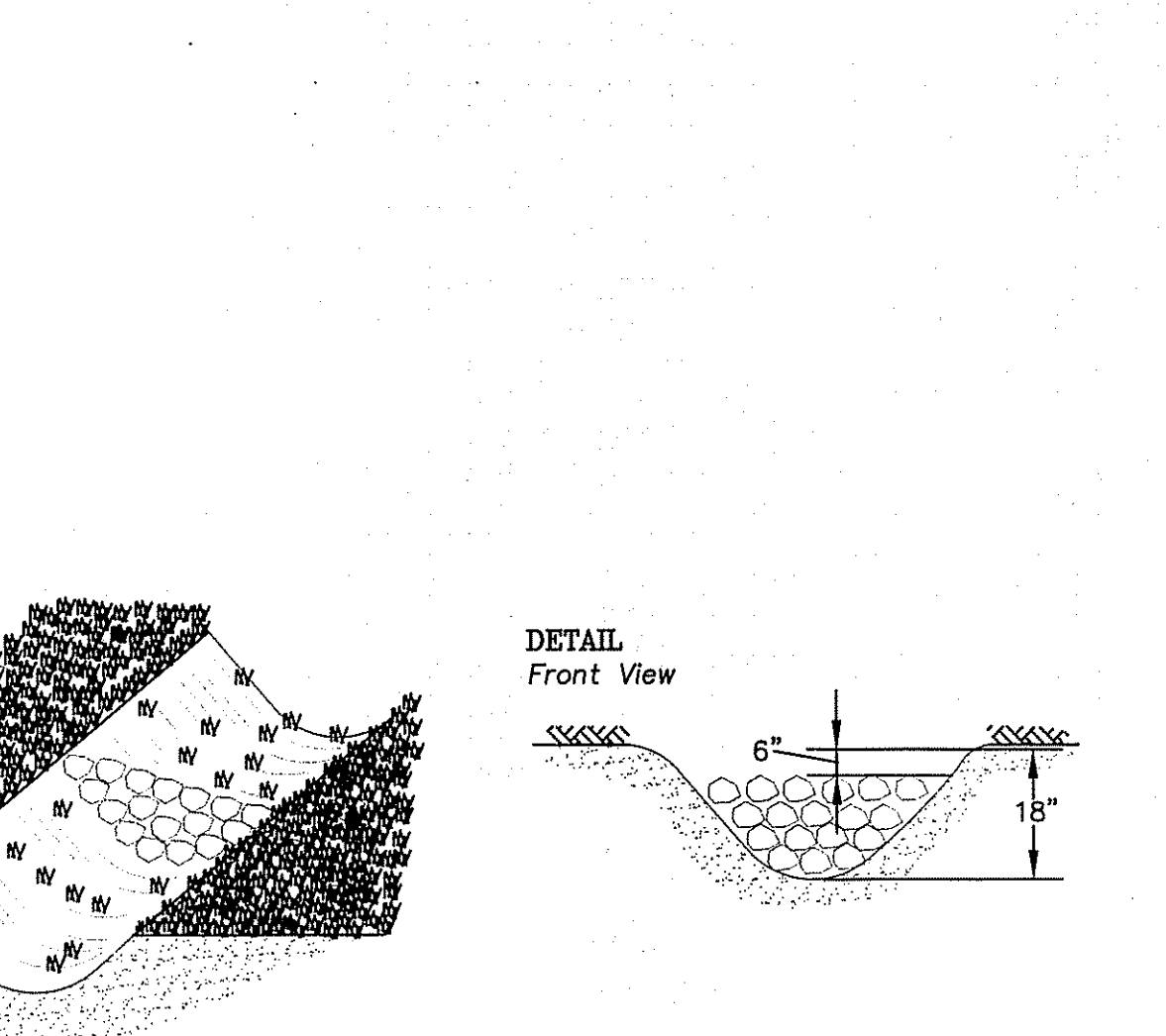
SWALE TYPE A CHECK DAM DETAIL
NO SCALE



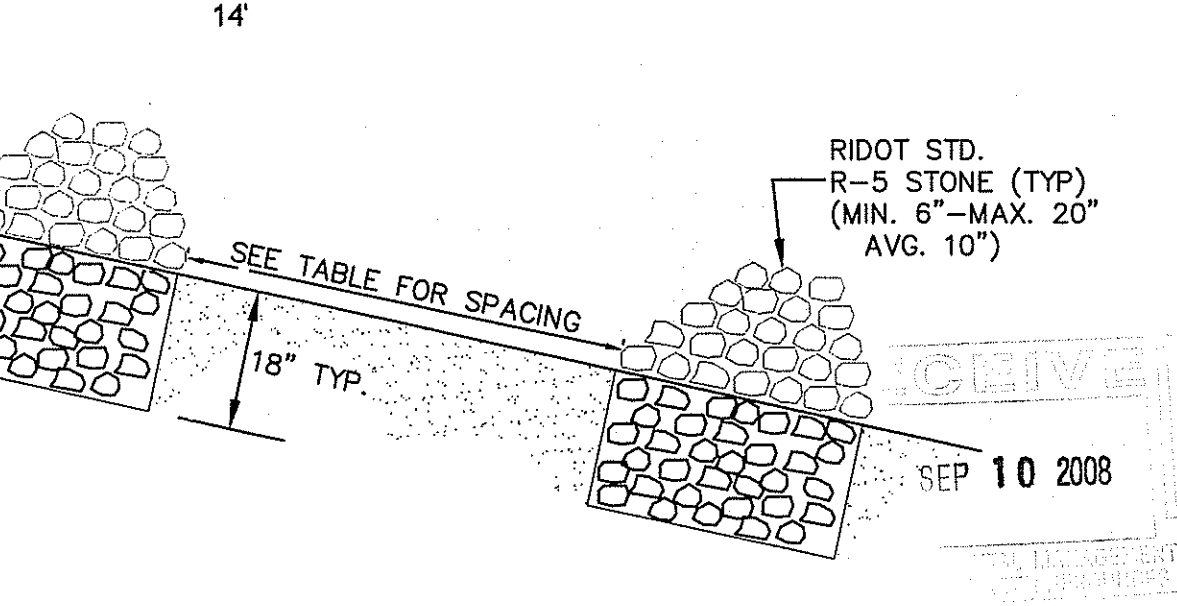
CONCRETE HEADWALLS FOR PIPE CULVERTS
R.I. STANDARD 2.1.0



SWALE TYPE (A) CHECK DAM DETAIL
NO SCALE



SWALE TYPE (A) CHECK DAM DETAIL
NO SCALE



SWALE TYPE (A) CHECK DAM DETAIL
NO SCALE

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JOSEPH A. CASALI
No. 250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
1.8.08

NORTH SCITUATE ESTATES
PLAINFIELD PIKE
SCITUATE, RHODE ISLAND
AP 43 LOTS 1, 2 & 116

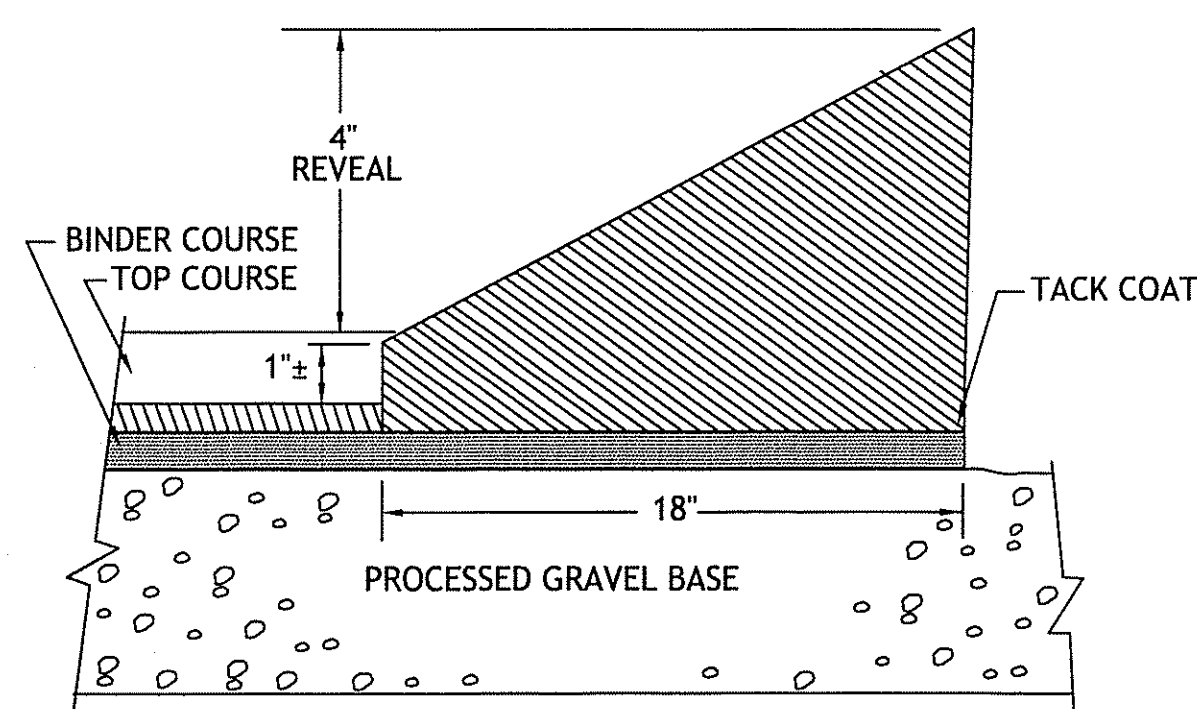
REVISIONS:

NO.	DATE	DESCRIPTION
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2	5/07	TOWN ENGINEER COMMENTS
3	7/07	PLAN COMMISSION COMMENTS
4	8/07	PLAN COMMISSION COMMENTS
5	3/08	RIDEM SUBMISSION
6	9/08	RIDEM COMMENTS

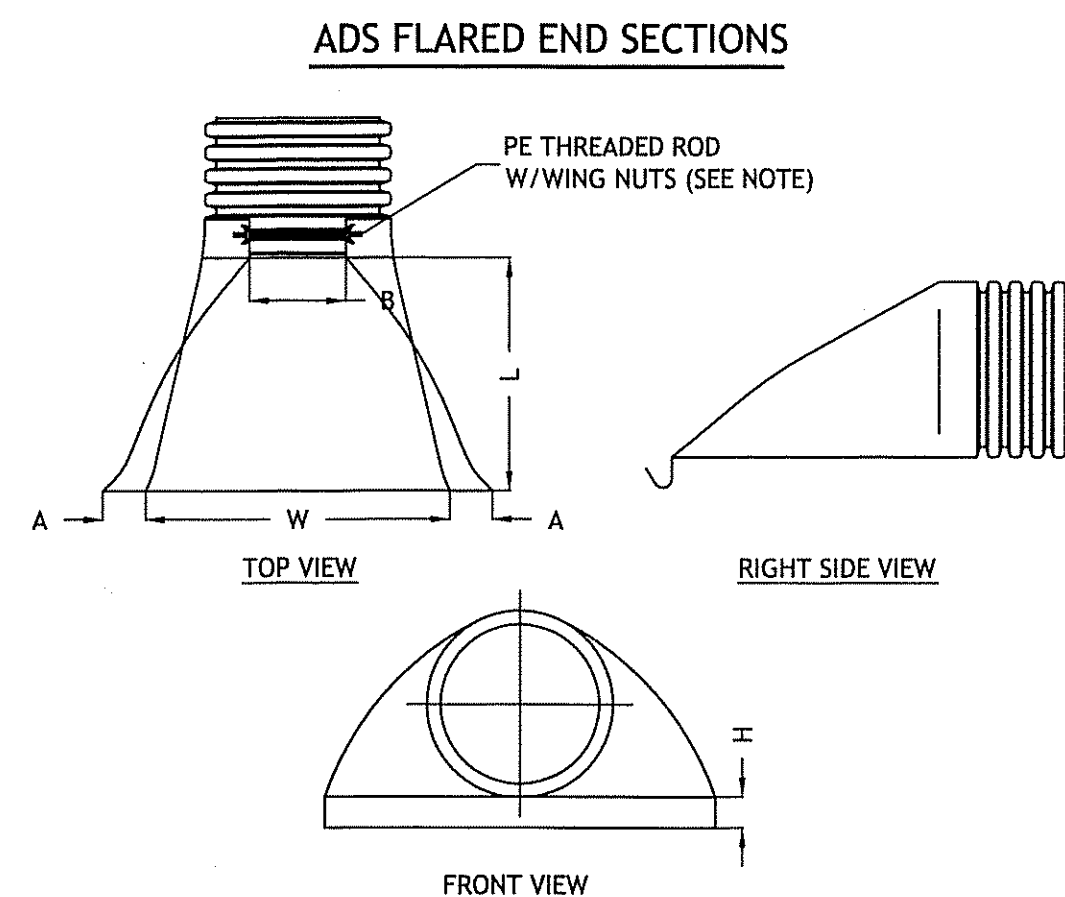
DRAWN BY: JDC
CHECKED BY: JAC/NCW
DATE: DECEMBER 2007
PROJECT NO: 06-52h

DETAILS- 1

SHEET 9 OF 11



CAPE COD BERM DETAIL
NOT TO SCALE

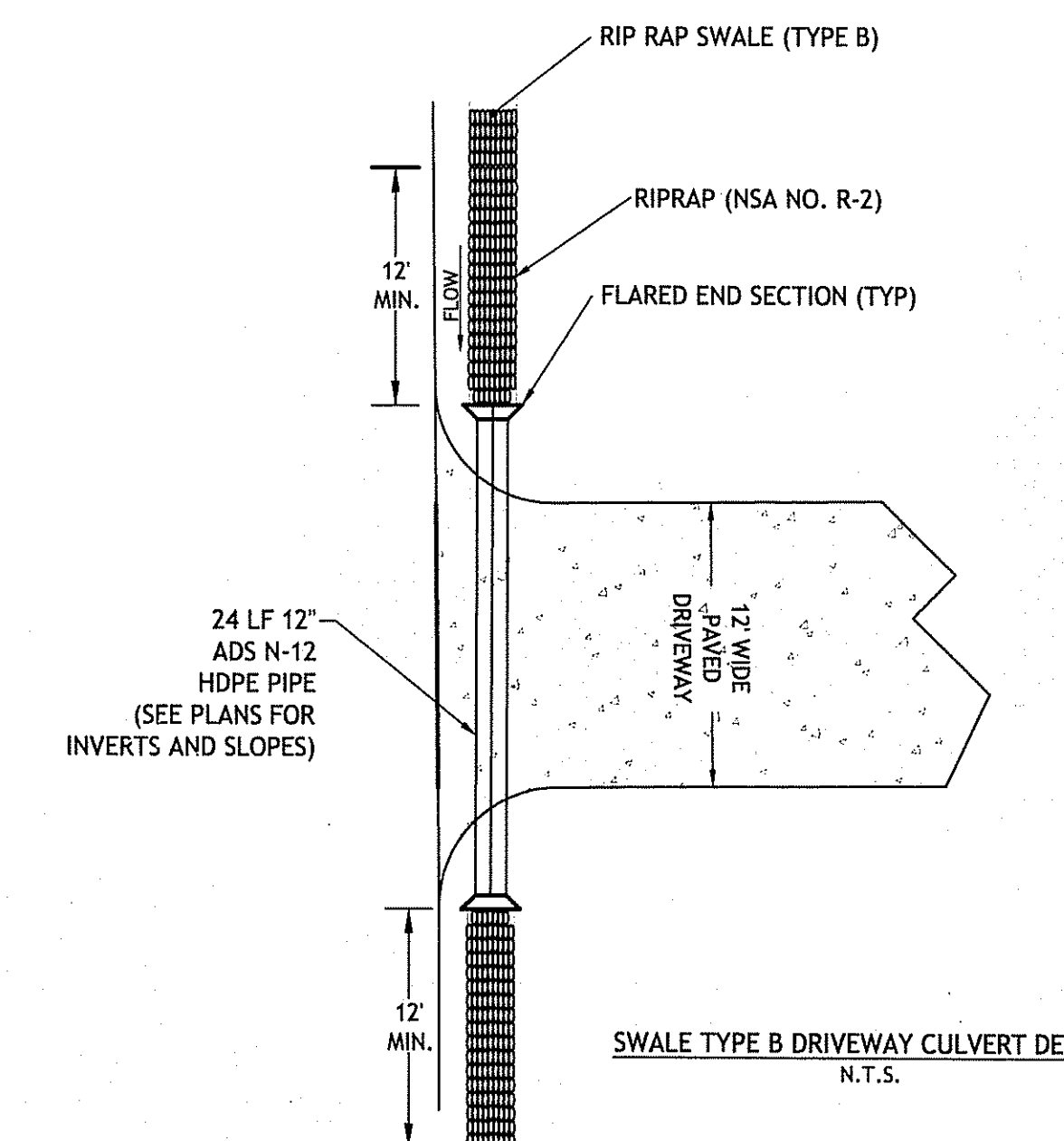


PART N O	PIPE SIZE	A	B (MAX)	H	L	W
1210-NP	12"	6.5"	10"	6.5"	25"	29"
1210-NP	300 mm	165 mm	254 mm	165 mm	635 mm	735 mm
1210-NP	15"	6.5"	10"	6.5"	25"	29"
1210-NP	375 mm	165 mm	254 mm	165 mm	635 mm	735 mm
1810-NP	18"	7.5"	15"	6.5"	32"	35"
1810-NP	450 mm	190 mm	380 mm	165 mm	812 mm	890 mm
2410-NP	24"	7.5"	18"	6.5"	36"	45"
2410-NP	600 mm	190 mm	450 mm	165 mm	900 mm	1140 mm
3012-NP	30"	10.5"	N/A	7.0"	53"	68"
3012-NP	750 mm	266 mm	N/A	178 mm	1345 mm	1725 mm
3612-NP	36"	10.5"	N/A	7.0"	53"	68"
3612-NP	900 mm	266 mm	N/A	178 mm	1345 mm	1725 mm

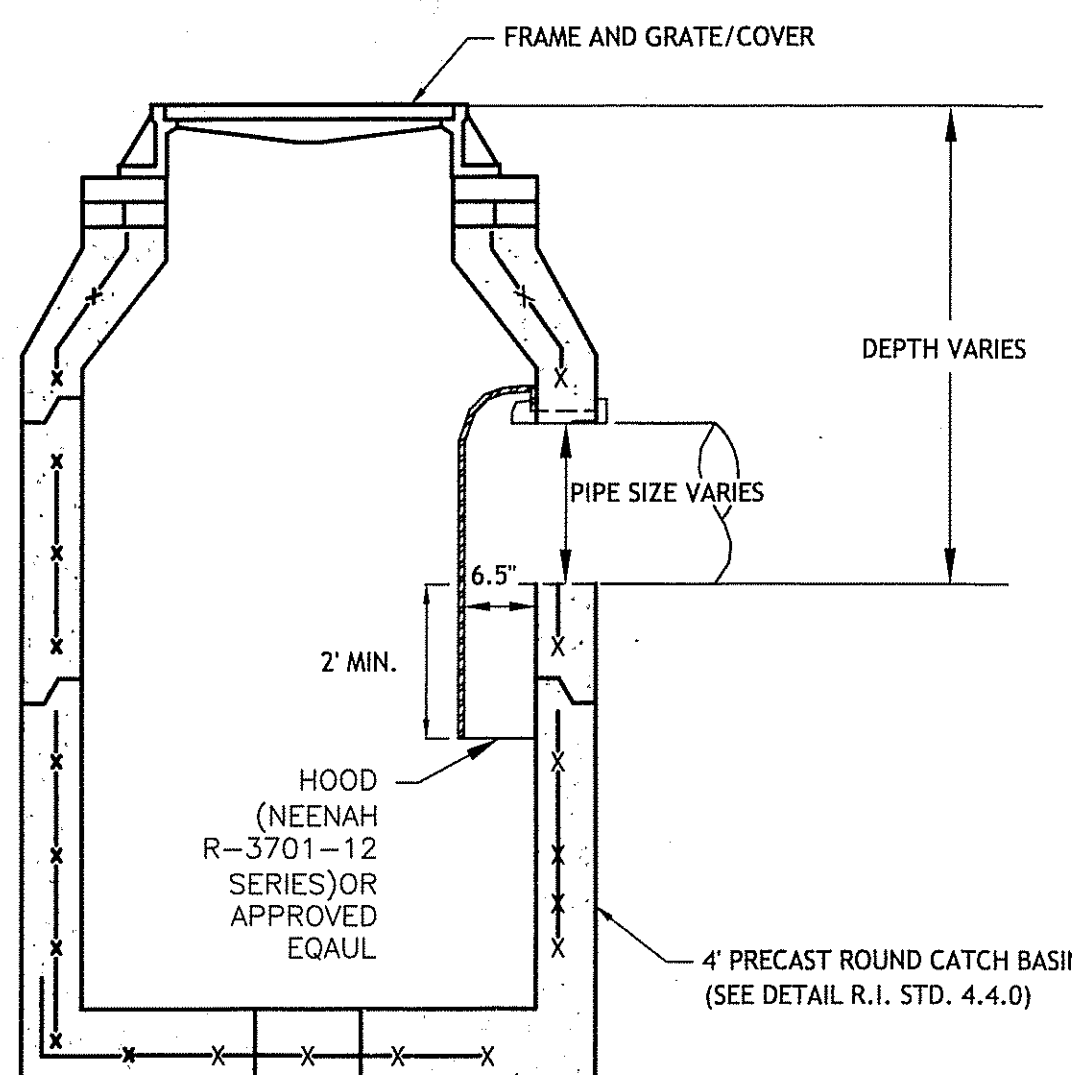
NOTE: PE THREADED ROD W/WING NUTS PROVIDED FOR END SECTIONS 12"-24", 30" & 36" END SECTIONS TO BE WELDED TO PIPE PER MANUFACTURER'S RECOMMENDATIONS.

ADS FLARED END SECTION TRASH GUARDS

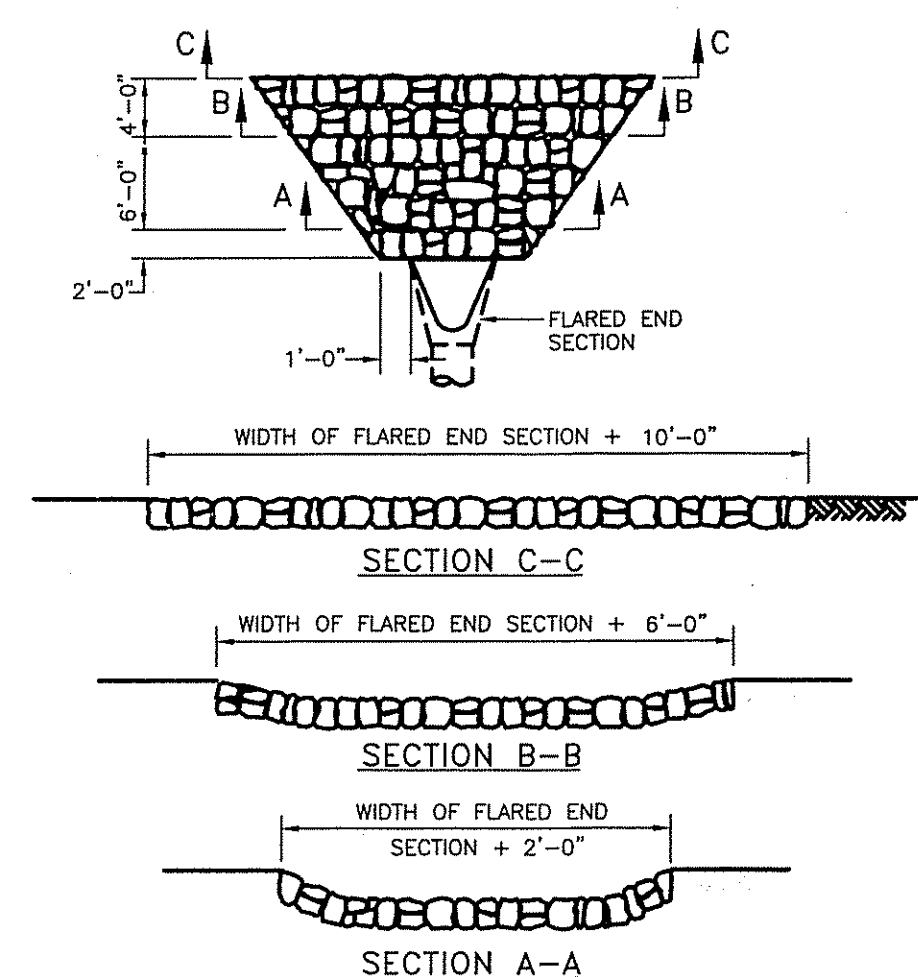
Part #	Size
1290DA	12"
1590DA	15"
1890DA	18"
2490DA	24"
3090DA	30"
3690DA	36"



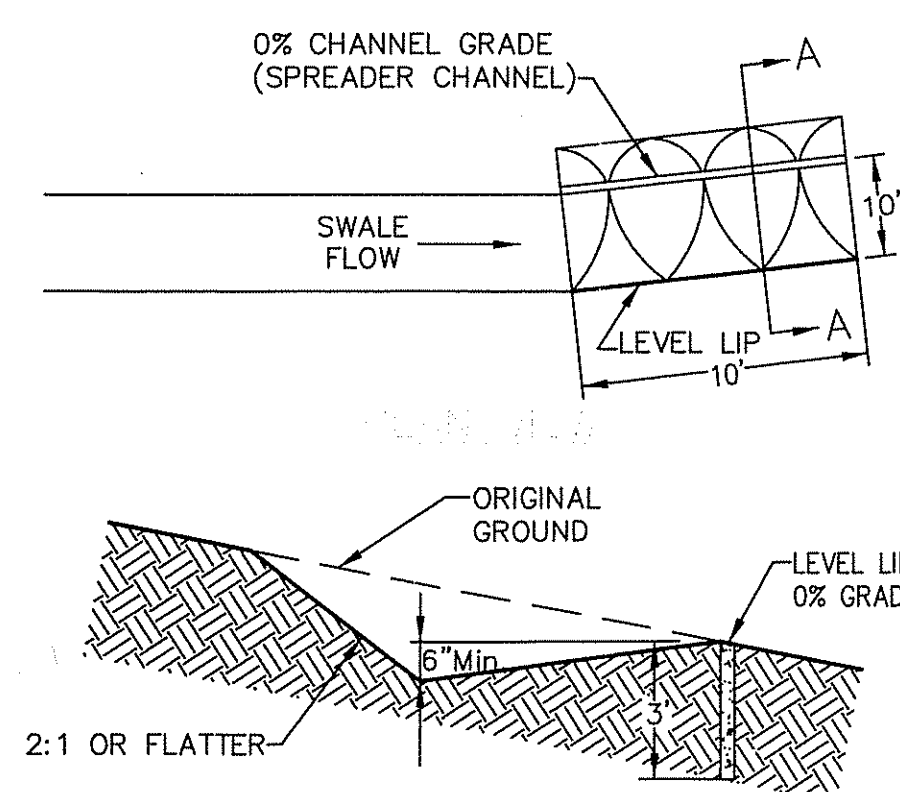
SWALE TYPE B DRIVEWAY CULVERT DETAIL
N.T.S.



OIL/WATER SEPARATOR HOOD (CB 2)
DETAIL
NOT TO SCALE

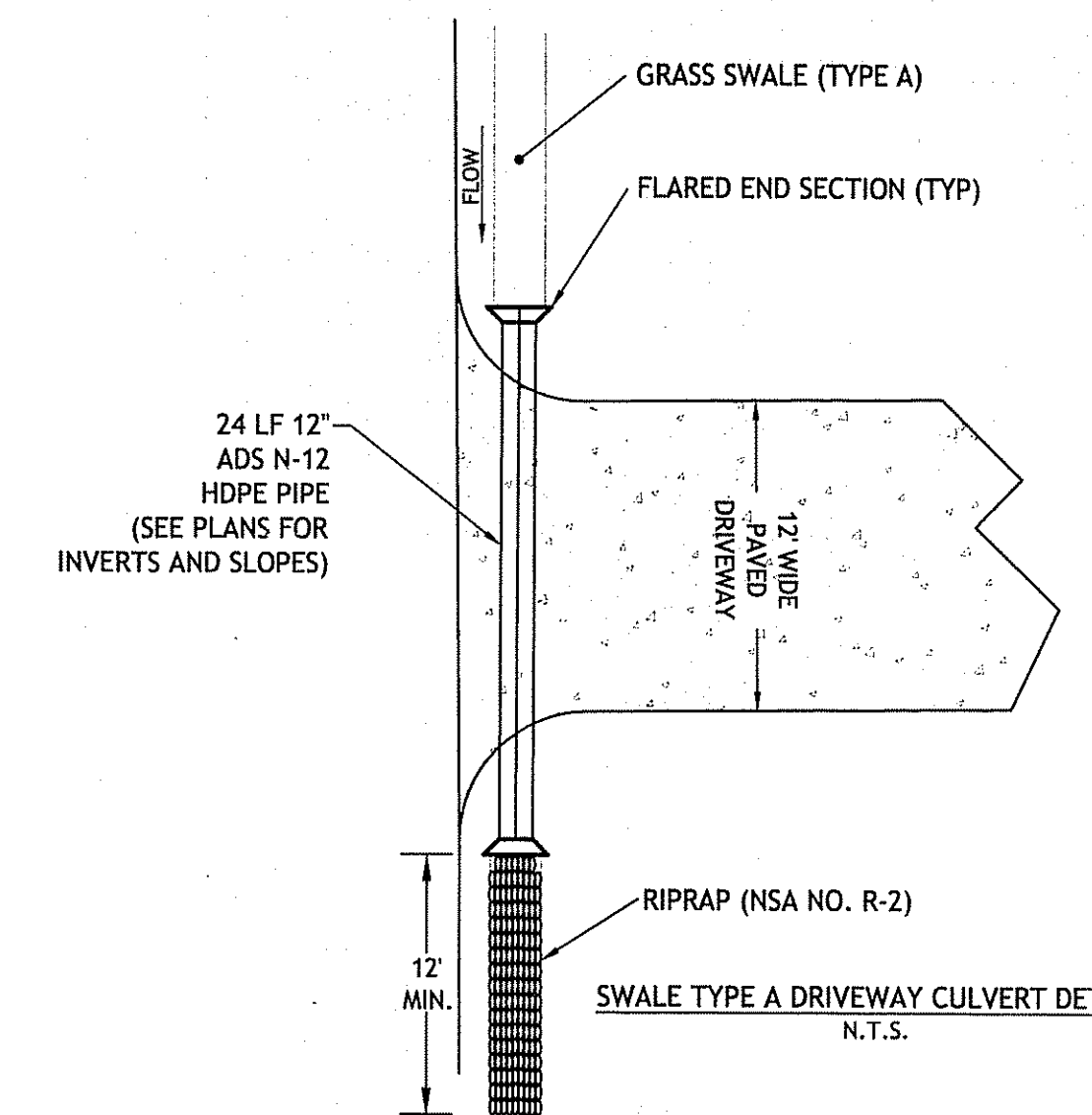


ROCK FILL RIP-RAP AT FLARED END SECTIONS
NOT TO SCALE

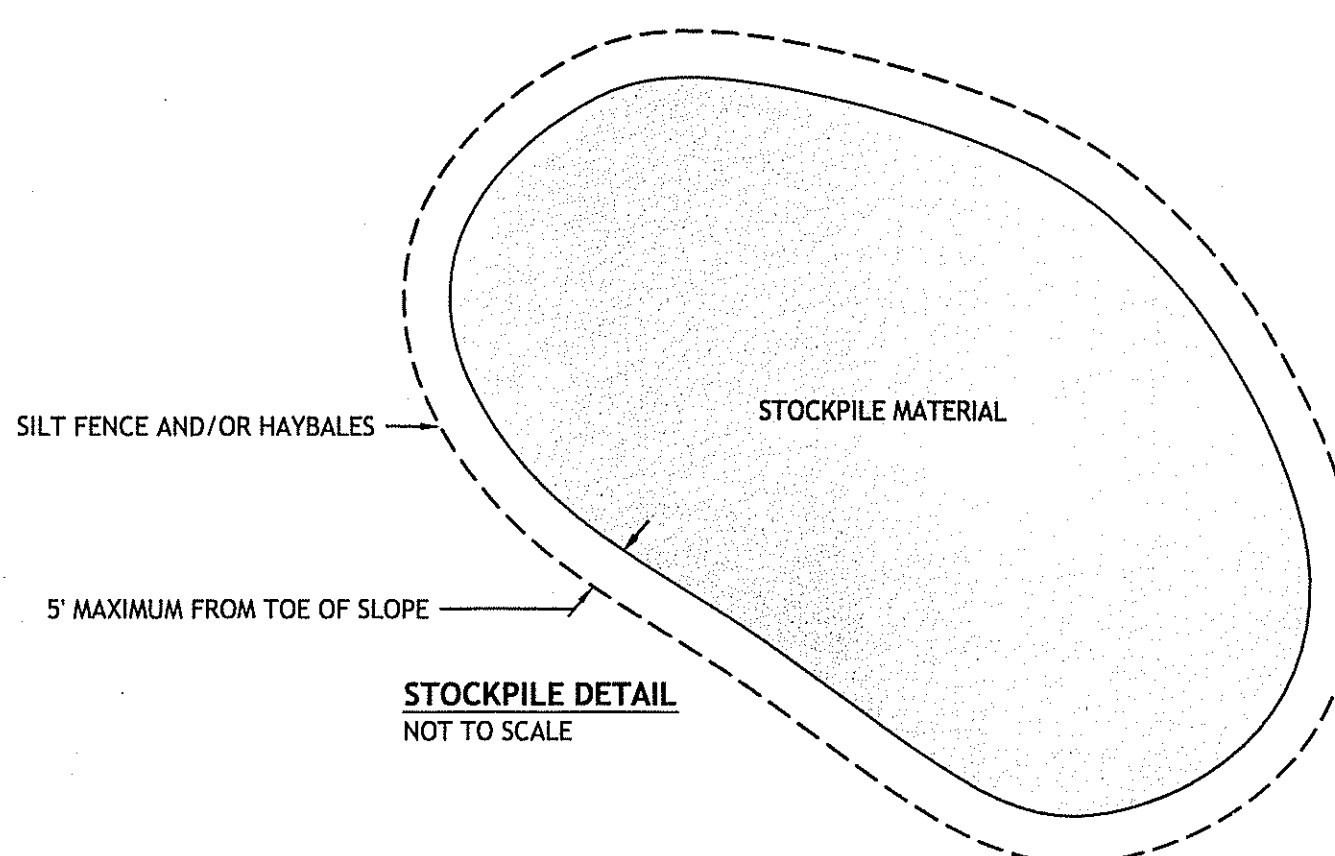


LEVEL SPREADER
NOT TO SCALE

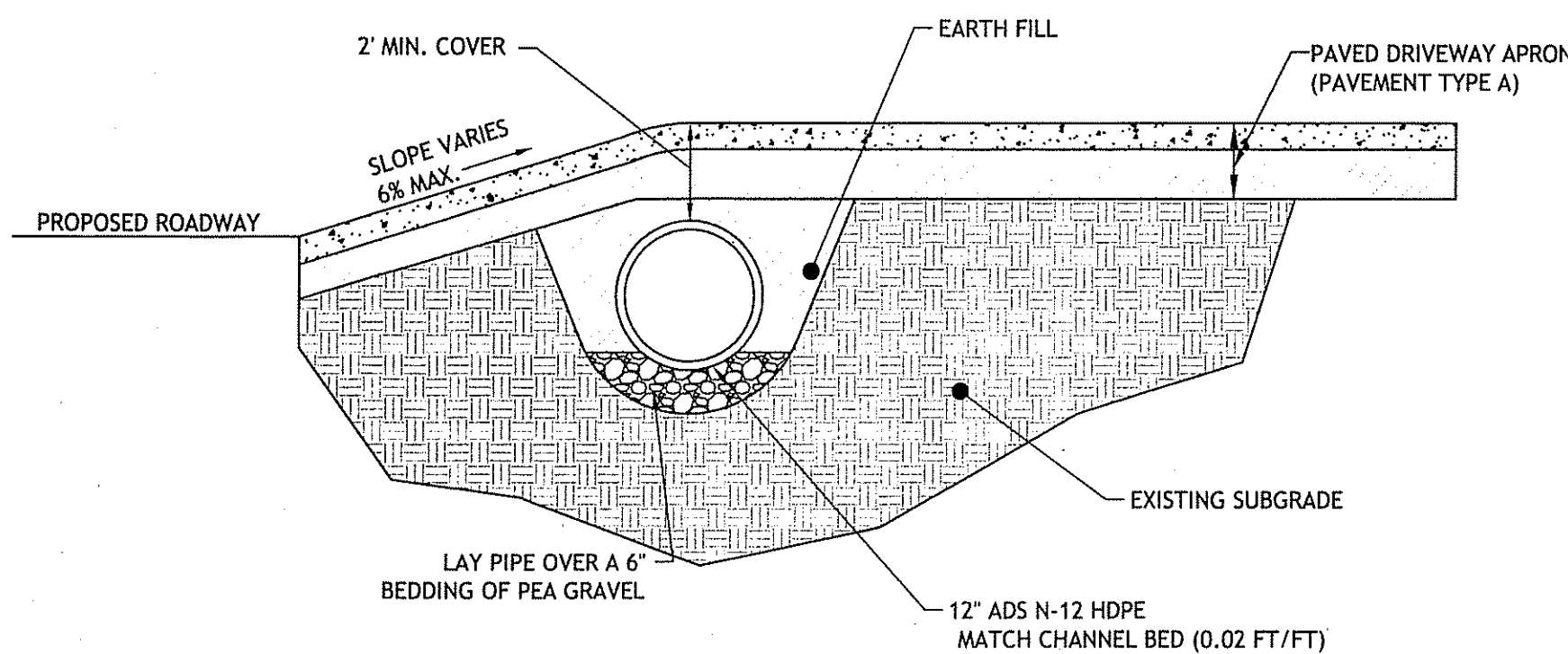
1. THE GRADE OF THE CHANNEL FOR THE LAST 20 FEET PRIOR TO ENTERING THE LEVEL SPREADER SHALL BE LESS THAN OR EQUAL TO 1%.
2. THE GRADE OF THE BOTTOM OF THE LEVEL SPREADER AND THE LIP SHALL BE 0% (LEVEL).
3. THE GRADE OF THE AREA IMMEDIATELY DOWNSLOPE OF THE SPREADER SHALL BE 8% OR FLATTER.
4. THE LIP SHALL BE LEVEL (ON A 0% GRADE).
5. FLOW SHALL BE DIRECTED TO STABILIZED, VEGETATED, UNDISTURBED SOIL (NOT FILL MATERIAL). SHEET FLOW SHALL NOT BE ALLOWED TO RECONCENTRATE BELOW THE STRUCTURE.
6. LEVEL SPREADERS MUST BE CONSTRUCTED ON UNDISTURBED SOIL (NOT FILL MATERIAL).
7. THE ENTRANCE TO THE LEVEL SPREADER MUST BE SHAPED IN SUCH A MANNER AS TO ENSURE THAT RUNOFF ENTERS DIRECTLY ONTO THE 0% CHANNEL.
8. EXCEPT FOR THE ENTRANCE CHANNEL, ALL SIDES OF THE SPREADER CHANNEL SHALL BE AT LEAST 6 INCHES HIGHER THAN THE ELEVATION OF THE LEVEL LIP.
9. PERIODIC INSPECTION FOR SIGNS OF EROSION AT THE LEVEL LIP AND DOWNSLOPE AREAS IS ESSENTIAL AND REPAIR MUST BE CARRIED OUT PROMPTLY. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTIONS AND MAINTENANCE UNTIL CONSTRUCTION IS COMPLETED OR UNTIL IT IS ACCEPTED BY THE OWNER. THE OWNER IS RESPONSIBLE THEREAFTER.



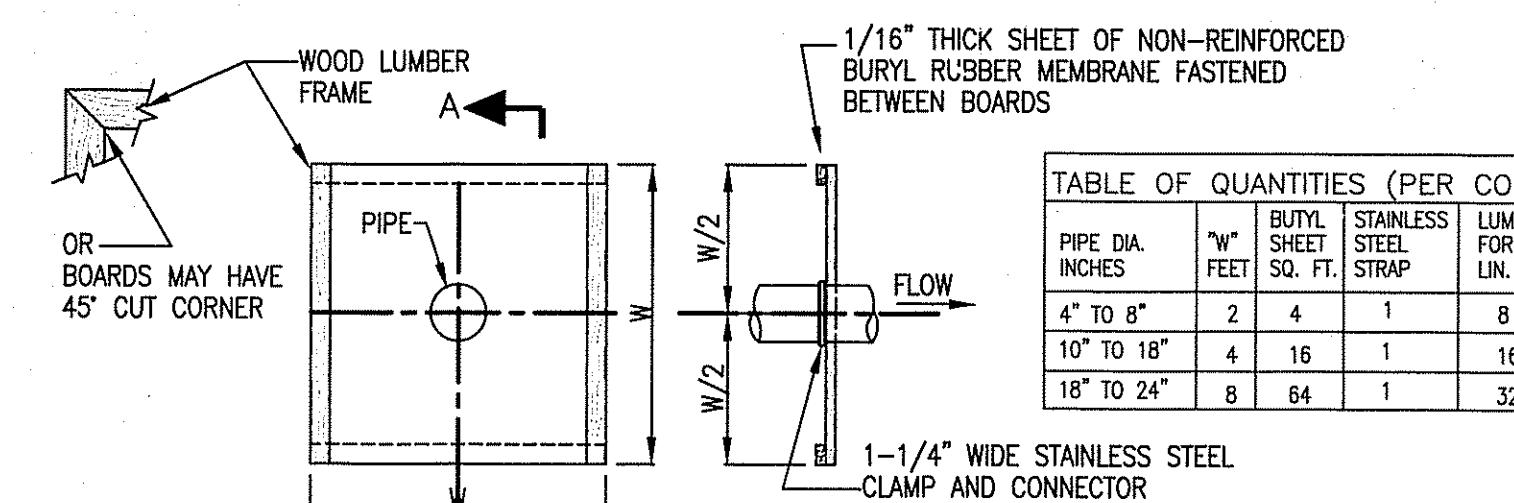
SWALE TYPE A DRIVEWAY CULVERT DETAIL
N.T.S.



STOCKPILE DETAIL
NOT TO SCALE



TYPICAL DRIVEWAY CULVERT CROSS SECTION
SCALE: 1" = 2'



- TABLE OF QUANTITIES (PER COLLAR)**
- | PIPE DIA. INCHES | W/2 FEET SQ. FT. | BUTYL SHEET SQ. FT. | STAINLESS STEEL STRAP | LUMBER FOR FRAME LIN. FT. |
|------------------|------------------|---------------------|-----------------------|---------------------------|
| 4" TO 8" | 2 | 4 | 1 | 8 |
| 10" TO 18" | 4 | 16 | 1 | 16 |
| 18" TO 24" | 8 | 64 | 1 | 32 |
1. COAT PIPE AT COLLAR LOCATION WITH BUTYL RUBBER PATH CEMENT SEALER OR OTHER BUTYL RUBBER SEALER. (DO NOT USE ASPHALT ROOF PATCH)
 2. COMPLETED INSTALLATION MUST BE WATER TIGHT
 3. FORCE BUTYL RUBBER SHEET OVER UPSTREAM END OF PIPE AND OVER BUTYL ROOF SEALER.
 4. INSTALL A 1-1/4" WIDE STAINLESS STEEL STRAP, CLAMP AROUND PIPE OVER BUTYL RUBBER SHEET AND TIGHTEN UNTIL SEALER IS FORCED OUT.
 5. STAPLE BUTYL RUBBER SHEET TO LUMBER FRAME.
 6. FOR PIPE DIAMETERS OF LESS THAN 6" CUT A HOLE (CENTERED) IN BUTYL RUBBER SHEET, APPROX. 1/2" DIA. AND FOR PIPE DIAMETERS 6" TO 15" CUT A HOLE 3" SMALLER THAN DIAMETER OF PIPE AND FORCE BUTYL RUBBER SHEET OVER UPSTREAM END OF PIPE AND OVER BUTYL ROOF SEALER.
 7. THE WOOD FRAME SHALL BE CONSTRUCTED FROM EITHER 1"x4" OR 2"x2" LUMBER AND SHALL BE RIGID ENOUGH TO WITHSTAND BACKFILL DURING ENVIRONMENTAL MANAGEMENT.

ANTI-SEEP COLLAR DETAIL
NOT TO SCALE

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1-8-08

NORTH SCITUATE ESTATES
PLAINFIELD PIKE
SCITUATE, RHODE ISLAND
AP 43 LOTS 1, 2 & 116

REVISIONS:

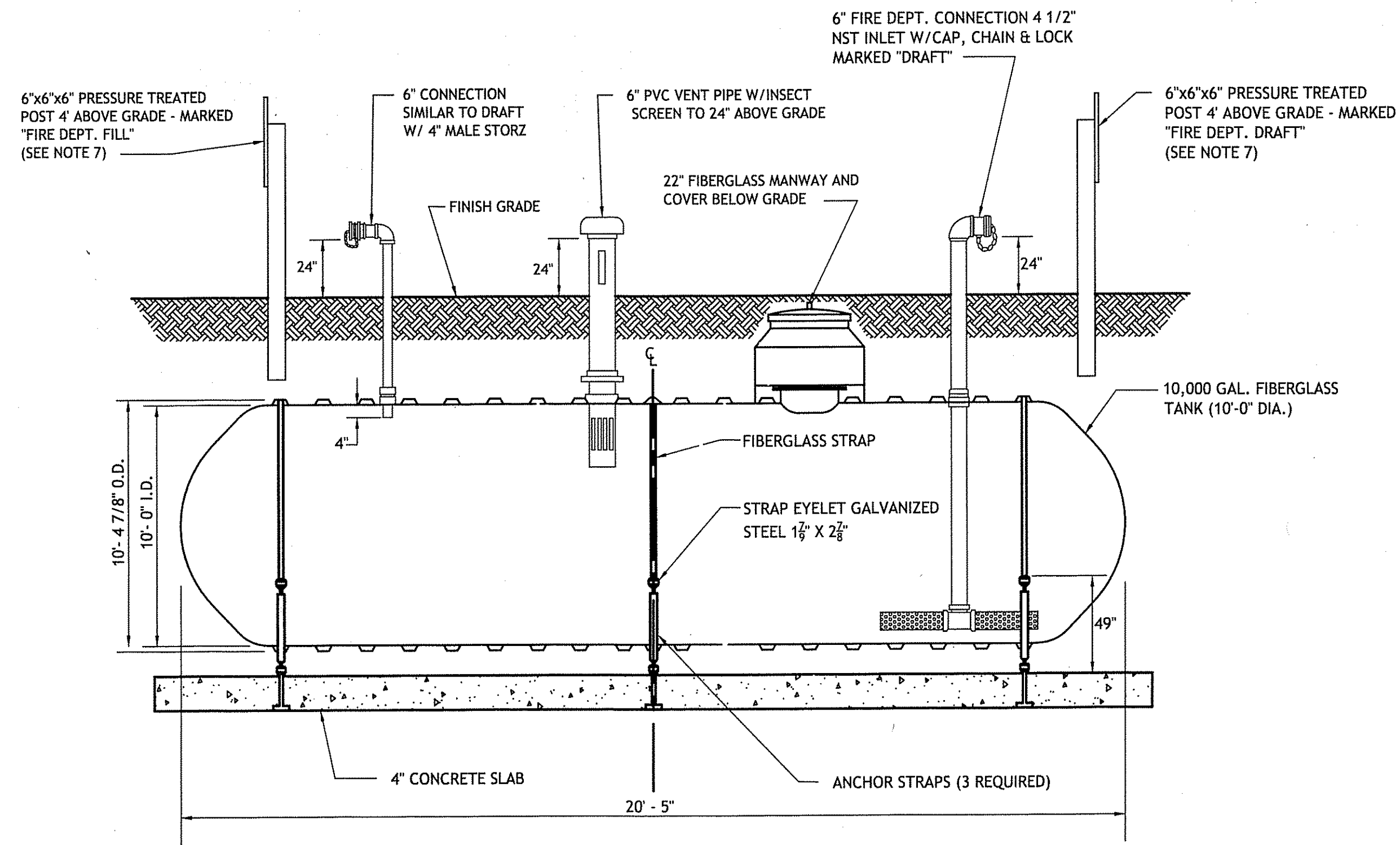
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6	9/08	RIDEM COMMENTS

DRAWN BY: JDC
CHECKED BY: JAC/NCW
DATE: DECEMBER 2007
PROJECT NO: 06-52h

DETAILS - 2
SHEET 10 OF 11

Q:\03-22-National Land Surveyors\06-22h S French\ACAD\Plan-Set\Plan-SET.dwg Sep. 08, 2008 12:14pm

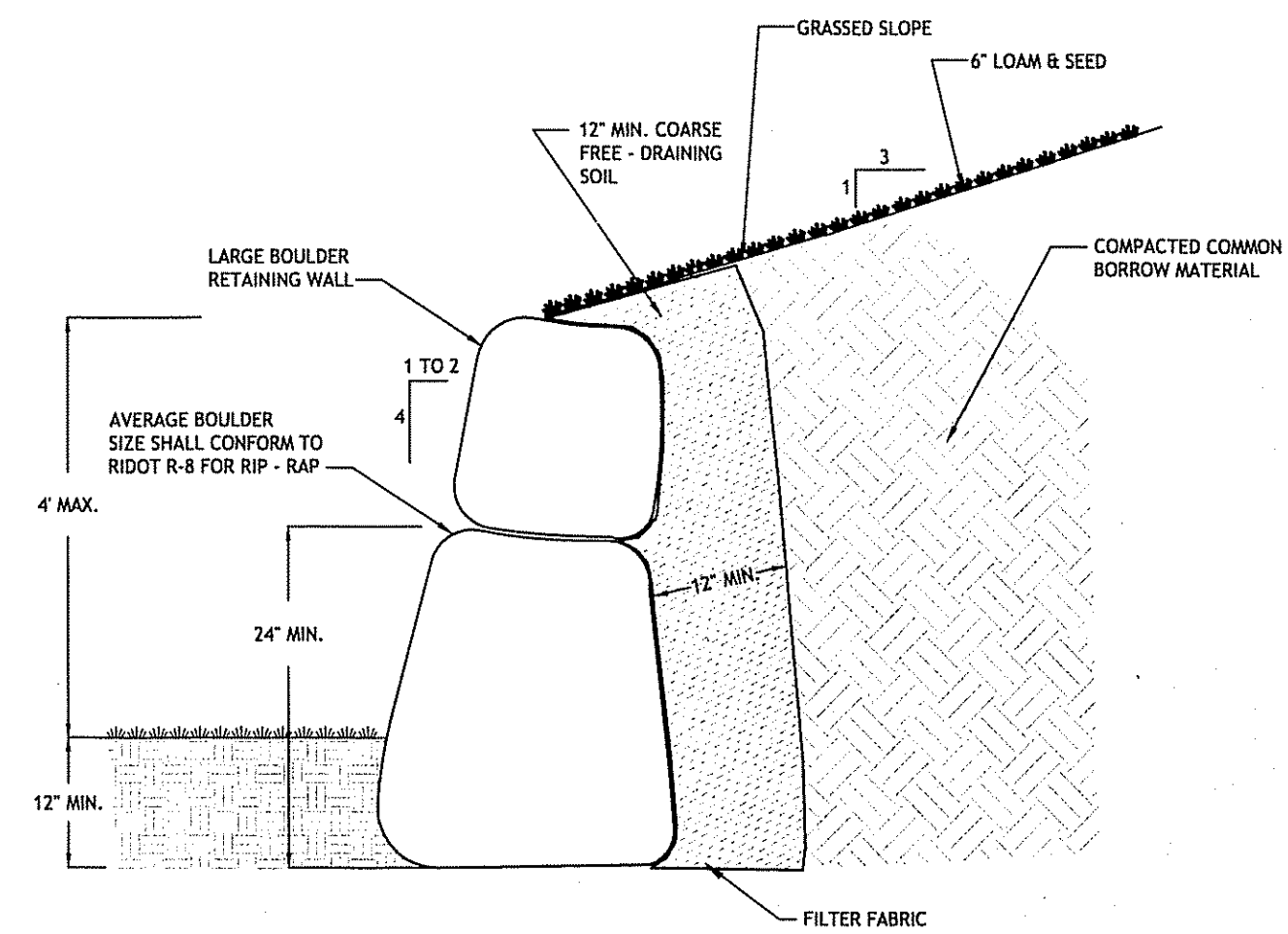
SEP 10 2008
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 23 2008 FILE # 08-0148
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman



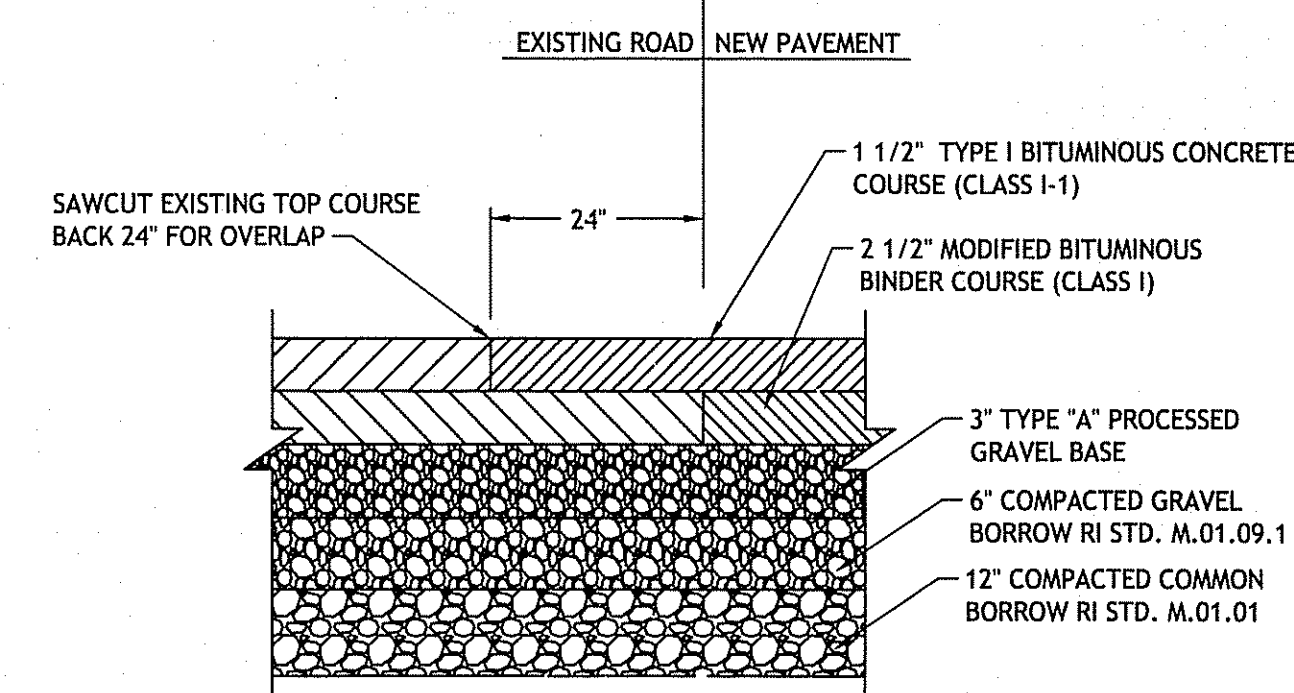
10,000 Gal. WATER STORAGE TANK
NOT TO SCALE

NOTES:

1. ALL WORK & MATERIALS, UNLESS OTHERWISE NOTED, SHALL BE IN CONFORMANCE W/ NFPA - 1142-2001 ED.
2. THE DESIGN LOADING OF THE TANK SHALL BE HS 20-44 (ASHTO).
3. THE FIRE DEPARTMENT CONNECTION SHALL BE 4 1/2" MALE NST ANODIZED ALUMINUM, W/ SCREEN, "KOCKER" OR APPROVED EQUAL.
4. PVC SUCTION AND VENT PIPING SHALL BE SCHEDULE 80 PVC. PAINT ALL PIPING W/ SHOP PRIMER AND 2 COATS OF RED, EXTERIOR ENAMEL. (ABOVE GRADE)
5. PIPE COUPLINGS SHALL "DRESSER" OR AN APPROVED EQUAL, W/ 2 COATS OF BITUMINOUS PAINT, IF REQUIRED.
6. LOCKS SHALL BE "MASTER PADLOCK" SIZE #3, W/ MASTER KEY TO MATCH LOCAL DEPT. ; LOCK PROVIDED BY FIRE DEPT.
7. "FIRE DEPT. DRAFT" & "FIRE DEPT. FILL" TO BE MARKED ON POST WITH 12" X 18" SIGNS, FLUORESCENT, WHITE BACKGROUND & RED LETTERING, SIMILAR TO RI D.O.T. STD. 27.1.0 SIGN.
8. TANK TO BE INSPECTED BY TOWN & FIRE DEPT. INSIDE & OUT PRIOR TO FILLING W/WATER.
9. TANK TO BE FILLED W/ WATER PRIOR TO BACKFILLING, OBSERVE FOR LEAKS 72 HOURS.
10. FINAL APPROVAL OF PLANS FOR TANK LOCATION, APPROACH & PARKING AREA FOR PUMPER SHALL BE BY THE LOCAL FIRE CHIEF OR AGENT DESIGNATED BY THE LOCAL FIRE CHIEF.
11. PROVIDE AND MAINTAIN SAFTEY FENCING AT ALL TIMES DURING CONSTRUCTION, UNTIL BACKFILLING IS COMPLETE.



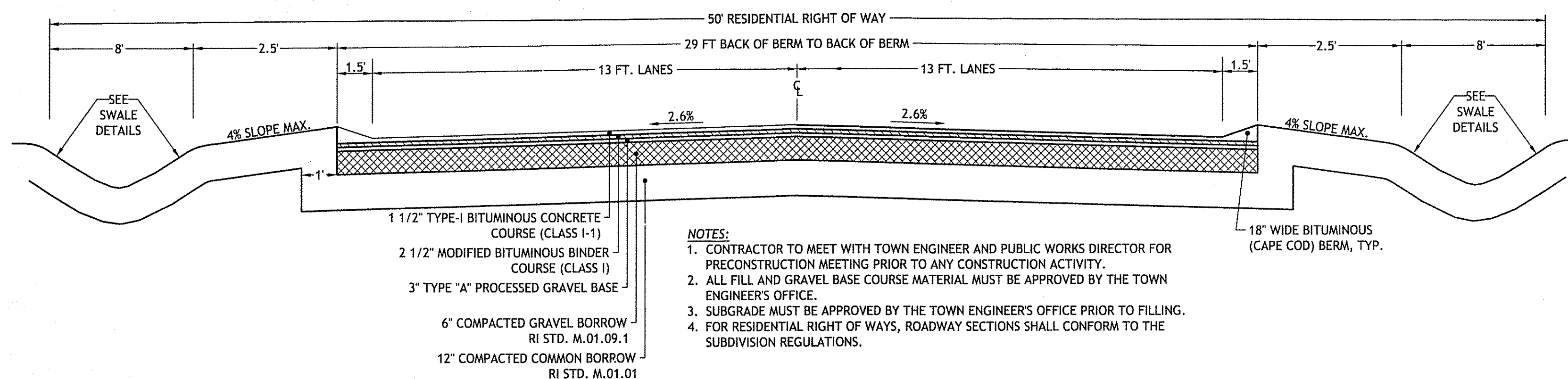
BOULDER RETAINING WALL
NOT TO SCALE



NOTE:
PROVIDE BITUMINOUS TACK COAT AT ALL SAWCUTS.

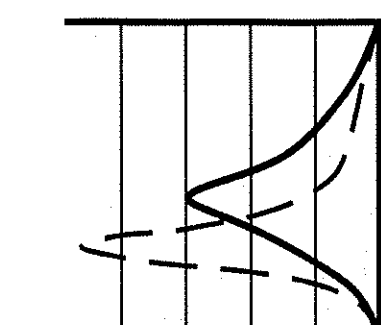
PAVEMENT CUT & MATCH
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 23 2008 FILE # CB-0148
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy T. Freeman

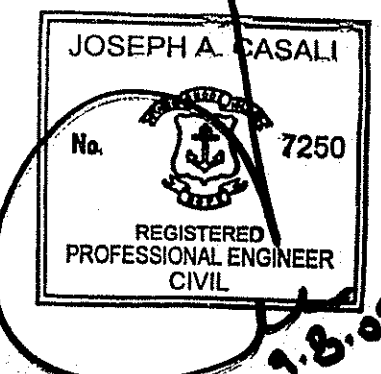


- NOTES:**
1. CONTRACTOR TO MEET WITH TOWN ENGINEER AND PUBLIC WORKS DIRECTOR FOR PRECONSTRUCTION MEETING PRIOR TO ANY CONSTRUCTION ACTIVITY.
 2. ALL FILL AND GRAVEL BASE COURSE MATERIAL MUST BE APPROVED BY THE TOWN ENGINEER'S OFFICE.
 3. SUBGRADE MUST BE APPROVED BY THE TOWN ENGINEER'S OFFICE PRIOR TO FILLING.
 4. FOR RESIDENTIAL RIGHT OF WAYS, ROADWAY SECTIONS SHALL CONFORM TO THE SUBDIVISION REGULATIONS.

TOWN OF SCITUATE
TYPICAL ROAD SECTION WITH BERM
NOT TO SCALE



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NORTH SCITUATE ESTATES
PLAINFIELD PIKE
SCITUATE, RHODE ISLAND
AP 43 LOTS 1, 2 & 116

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DRAWN BY: JDC
CHECKED BY: JAC/NCW
DATE: DECEMBER 2007
PROJECT NO: 06-52h

DETAILS - 3

SHEET 11 OF 11

C:\03-52-National Land Surveyors\03-52h-5-French\ACAD\Plan-Set\5-FRENCH (PLAN-SET).dwg Sep. 08. 2008 12:14pm