

GENERAL NOTES:

- CLASS I PROPERTY LINE AND CLASS III TOPOGRAPHIC SURVEY COMPLETED BY INTERNATIONAL MAPPING AND SURVEYING CORP., 19 INDUSTRIAL DRIVE, SMITHFIELD RI IN MARCH 2011.
- 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 X (AREAS OUTSIDE THE 500-YEAR FLOOD PLAIN), AS SHOWN ON THE FIRM MAP FOR THE TOWN OF SCITUATE, RI, MAP NUMBER 440070280G, EFFECTIVE DATE MARCH 2, 2009.
- SOILS EXISTING ON THE SITE ARE AGAWAM (A8) AND GLOUCESTER-HINCKLEY (GHC), HYDROLOGIC SOIL GROUP A AND B RESPECTIVELY).
- SOIL EVALUATIONS PERFORMED BY ECOSYSTEM SOLUTIONS, INC. ON APRIL 12, 2011.
- FRESHWATER WETLANDS CLASSIFICATION PERFORMED BY ECOSYSTEM SOLUTIONS, INC. ON APRIL 12, 2011.

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 OR A RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER.
- ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS 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.
- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ACTUAL SIZE OF THE PROPOSED BUILDING.
- WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE TOWN 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.
- WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
- 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.
- REFER TO PLUMBING PLANS FOR CONTINUATION OF ALL UTILITIES WITHIN 5' (FIVE) FEET OF THE BUILDING.
- 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).

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.
- THE UTILITY PLAN DOES NOT DEPICT THE NECESSARY ELECTRICAL CONDUIT/WIRING TO SERVICE THE PROPOSED LIGHTING AND SIGNS, WHICH WILL BE PERFORMED BY THE CONTRACTOR FOR NO ADDITIONAL COST.
- OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED 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 THESE OPERATIONS.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.
- EXISTING UTILITY FRAMES AND COVERS FOR SANITARY SEWER, WATER, GAS, STORM DRAINAGE AND OTHER UTILITIES 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.

FLOOD PLAIN NOTE:

- A FLOOD PLAIN ASSESSMENT WAS NOT CONDUCTED FOR THE UNNAMED INTERMITTENT STREAM WITHIN THE SITE. WHILE ALL STREAMS HAVE A 100-YEAR FLOOD PLAIN ASSOCIATED WITH THEM, IT WAS DETERMINED THAT THE FLOOD PLAIN WAS NOT A KEY COMPONENT OF THE SITE DRAINAGE AND DESIGN. THE UPSIZING OF THE EXISTING 18" RCP CULVERT THAT IS LOCATED UNDERNEATH THE PROJECT SITE IS BEING DONE AT THE REQUEST OF THE TOWN OF SCITUATE TO ALLEVIATE WHAT IS MORE OF A CHOKING POINT THAN A FLOODING SITUATION. ALSO, THE PROJECT HAS BEEN APPROVED BY THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION, WHO IS RESPONSIBLE FOR THE DOWNSTREAM BOX CULVERT UNDER DANIELSON PIKE.

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 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- 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 RIDOT SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

DRAINAGE SYSTEM NOTES:

- THE PROPOSED DRAINAGE LINES SHALL BE ADS N-12 HPDE PIPE OR AN APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED HERE WITHIN.
- ALL RIM ELEVATIONS SHOWN ARE APPROXIMATE AND ARE TO BE SET FLUSH WITH FINAL GRADES.
- BIORETENTION AREA MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
 - IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF BOTH THE BASE OF THE BIORETENTION AREA AND THE REQUIRED BACKFILL.
 - WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL. IF BIORETENTION AREA IS EXCAVATED USING A LOADER, THE CONTRACTOR SHOULD USE WIDE TRACK OR MARSH TRACK EQUIPMENT, OR LIGHT EQUIPMENT WITH TURF TYPE TIRES. USE OF EQUIPMENT WITH NARROW TRACKS OR NARROW TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH PRESSURE TIRES WILL CAUSE EXCESSIVE COMPACTION RESULTING IN REDUCED INFILTRATION RATES AND STORAGE VOLUMES AND IS NOT ACCEPTABLE.
 - COMPACTION WILL SIGNIFICANTLY CONTRIBUTE TO DESIGN FAILURE. COMPACTION CAN BE ALLEVIATED AT THE BASE OF THE BIORETENTION FACILITY BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, RIPPER, OR SUBSOILER. THESE TILLING OPERATIONS ARE PERFORMED TO REFRACURE THE SOIL PROFILE THROUGH THE 12-IN COMPACTION ZONE. SUBSTITUTE METHODS MUST BE APPROVED BY THE ENGINEER, ROTOTILLERS TYPICALLY DO NOT TILL DEEP ENOUGH TO REDUCE THE EFFECTS OF COMPACTION FROM HEAVY EQUIPMENT.
 - WHEN BACKFILLING THE BIORETENTION FACILITY, PLACE SOIL IN LIFTS 12IN OR GREATER.
 - DO NOT USE HEAVY EQUIPMENT WITHIN THE BIORETENTION BASIN. HEAVY EQUIPMENT CAN BE USED AROUND THE PERIMETER OF THE BASIN TO SUPPLY SOILS AND SAND.
 - GRADE BIORETENTION MATERIALS WITH LIGHT EQUIPMENT SUCH AS A COMPACT LOADER OR A DOZER/LOADER WITH MARSH TRACKS.
- THE DESIGN ENGINEER MUST SUBMIT AN AS BUILT PLAN AND A CERTIFICATION TO 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.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

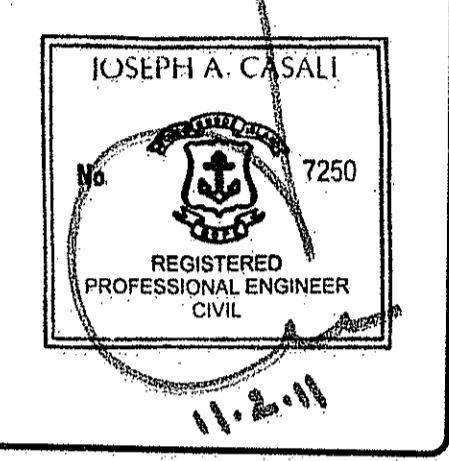
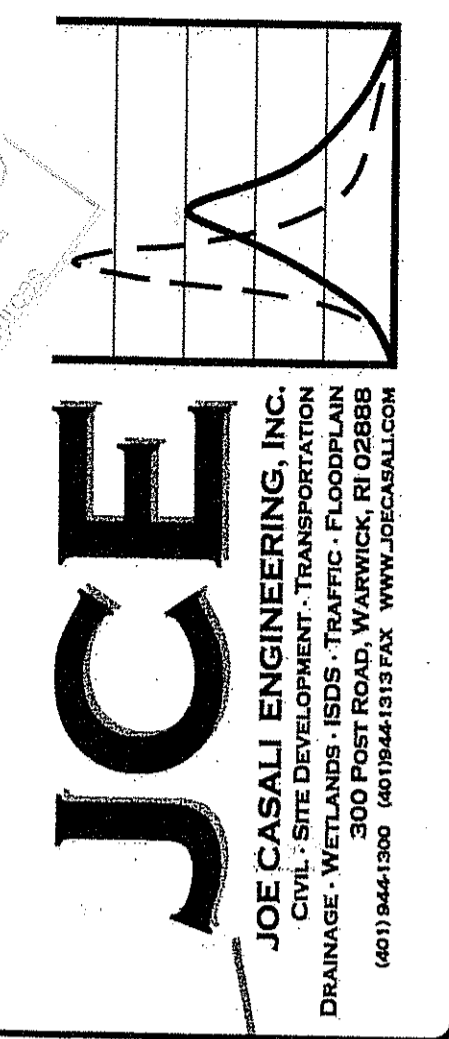
- THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
- ALL CATCH BASINS AND CULVERTS SHALL BE PROTECTED WITH STAKED 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 WITH SILT FENCE (R.I. STD. 9.3.0) AND STAKED HAYBALE WITH SILT FENCE 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 SILT FENCE, 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 SEDIMENTATION 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.
- THE OPERATOR SHOULD INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.

BMP MAINTENANCE SCHEDULE:

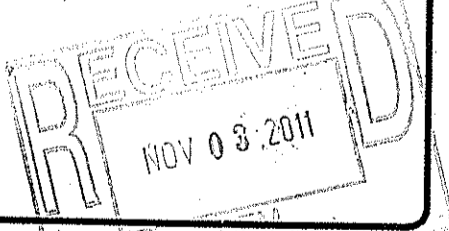
- ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
 - MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORM WATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS ALL PIPES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SLUMPS, AND MANHOLES.
 - INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
 -
- UPON COMPLETION OF THE PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
- AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE OWNER OR ENGINEER, ALL MAINTENANCE OF THE DRAINAGE SYSTEM SHALL THEN BE THE RESPONSIBILITY OF DEXTER CREDIT UNION OR THEIR APPROVED AGENTS.
- AFTER THE COMPLETION OF PROJECT CONSTRUCTION AND THE FINAL STABILIZATION OF THE ENTIRE SITE, THE INSPECTION AND MAINTENANCE OF ALL STORM WATER FACILITIES MUST BE PERFORMED AS FOLLOWS:
 - ANY REQUIRED REPAIR AND REPLACEMENT OF DRAINAGE STRUCTURES OR FACILITIES SHALL BE DONE PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE SYSTEM.
 - ALL DESIGN, CLEANING, AND MAINTENANCE OF THE STORM WATER DRAINAGE SYSTEM SHALL FOLLOW AT LEAST THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION MINIMUM STANDARDS, SECTION 212 AND SECTION 708. WHERE APPROPRIATE, PROCEDURES REGARDING THE DRAINAGE DESIGN, AND THE INSPECTION AND MAINTENANCE OF THE STORM WATER DRAINAGE SYSTEM SHALL BE FOLLOWED AS OUTLINED IN THE "RHODE ISLAND STORM WATER DESIGN AND INSTALLATION STANDARDS MANUAL" (RIDEM/RICRWC, SEPTEMBER 1, 1993).

INSPECTION, MAINTENANCE & REPAIR NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE DEXTER CREDIT UNION OR THEIR APPROVED AGENTS TO INSPECT, MAINTAIN AND REPAIR THE STORMWATER MANAGEMENT SYSTEM AS NECESSARY AND IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN.
- DEEP SUMP CATCH BASINS SHALL BE CHECKED ANNUALLY OR AFTER ANY MAJOR RAIN EVENT WITH MORE THAN 2" OF RAIN.
 - CATCH BASIN SHALL BE CHECKED FOR DEBRIS AND TRASH. ANY TRASH AND DEBRIS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
 - IF SEDIMENT DEPTH IS WITHIN 24" OF INVERT OF OUTLET PIPE, REMOVE SEDIMENT.
- SEDIMENT FOREBAY SHALL BE CHECKED ANNUALLY OR AFTER ANY MAJOR RAIN EVENT WITH MORE THAN 2" OF RAIN.
 - FOREBAY SHALL BE CHECKED FOR DEBRIS AND TRASH. ANY TRASH AND DEBRIS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
 - IF SEDIMENT DEPTH IS 12", REMOVE SEDIMENT.
 - IF THE SURFACE OF THE FOREBAY BECOMES CLOGGED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE FORTY-EIGHT (48) HOURS AFTER PRECIPITATION EVENTS, THE BOTTOM OF THE FOREBAY SHALL BE ROTO-TILLED OR CULTIVATED TO BREAK UP ANY HARD-PACKED SEDIMENT, AND THEN RESEDED.
- BIORETENTION FACILITIES SHOULD BE INSPECTED AT LEAST TWICE OR MORE FOLLOWING PRECIPITATION EVENTS OF AT LEAST 1.0 INCH TO ENSURE THAT THE SYSTEM IS FUNCTIONING PROPERLY DURING THE SIX MONTHS IMMEDIATELY AFTER CONSTRUCTION. THEREAFTER, INSPECTIONS SHOULD BE CONDUCTED ON AN ANNUAL BASIS AND AFTER MAJOR RAIN EVENT WITH MORE THAN 2" OF RAIN.
 - MINOR SOIL EROSION GULLIES SHOULD BE REPAIRED WHEN OCCUR.
 - PRUNING OR REPLACEMENT OF WOODY VEGETATION SHOULD OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.
 - SEPARATION OF HERBACEOUS VEGETATION ROOTSTOCK SHOULD OCCUR WHEN OVER-CROWDING IS OBSERVED, OR APPROXIMATELY ONCE EVERY 3 YEARS.
 - THE MULCH LAYER SHOULD ALSO BE REPLENISHED (TO THE ORIGINAL DESIGN DEPTH) EVERY OTHER YEAR, AS DIRECTED BY INSPECTION REPORTS. THE PREVIOUS MULCH LAYER SHOULD BE REMOVED, AND PROPERLY DISPOSED OF, OR ROTO-TILLED INTO THE SOIL SURFACE.
 - IF AT LEAST 50 PERCENT VEGETATION COVERAGE IS NOT ESTABLISHED AFTER TWO YEARS, A REINFORCEMENT PLANTING SHOULD BE PERFORMED.
 - IF THE SURFACE OF THE BIORETENTION SYSTEM BECOMES CLOGGED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE 48 HOURS AFTER PRECIPITATION EVENTS, THE SURFACE SHOULD BE ROTO-TILLED OR CULTIVATED TO BREAKUP ANY HARD-PACKED SEDIMENT AND THEN RE-VEGETATED.
- STREET SWEEPING SHALL BE PERFORMED A MINIMUM OF 4 TIMES A YEAR BETWEEN MARCH 15 AND NOVEMBER 30 USING A VACUUM SWEEPER:
 - EARLY SPRING, AFTER SNOW MELT
 - LATE SPRING/EARLY SUMMER
 - LATE SUMMER/EARLY FALL
 - LATE FALL, TO ADDRESS LEAF LITTER
- SNOW IS TO BE DISPOSED ONLY IN AREAS MARKED AS SNOW REMOVAL AREA ON SHEET 5 OF 11.
- THE DOCUMENT ENTITLED "STORMWATER OPERATION AND MAINTENANCE PLAN" DATED AUGUST 15, 2011 SHALL BE REFERENCED FOR A COMPLETE AND COMPREHENSIVE PRESENTATION OF THE INSPECTION, MAINTENANCE AND REPAIR RESPONSIBILITIES REGARDING THE SUBJECT PROJECT SITE.



DEXTER CREDIT UNION
 135 DANIELSON PIKE
 SCITUATE, RHODE ISLAND
 AP 16 LOT 19



| NO. | DATE | DESCRIPTION |
|-----|----------|----------------|
| 1 | 7/11/11 | RIDOT COMMENTS |
| 2 | 8/19/11 | RIDEM COMMENTS |
| 3 | 10/13/11 | RIDOT COMMENTS |
| 4 | 11/2/11 | RIDEM COMMENTS |

DESIGNED BY: GEC
 DRAWN BY: WMLJR
 CHECKED BY: JAC
 DATE: MARCH 2011
 PROJECT NO: 11-03

PRELIMINARY, NOT FOR CONSTRUCTION

GENERAL NOTES & LEGEND

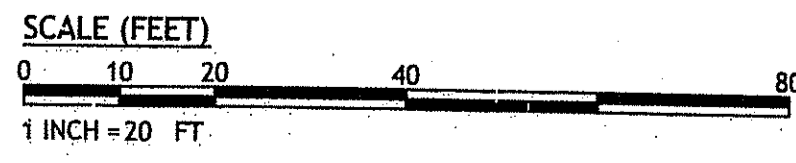
SHEET 2 OF 11

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED NOV - 4 2011 FILE # 11-0289
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Casali

| LEGEND | |
|---------|------------------------|
| --- | EXISTING PROPERTY LINE |
| - - - - | PROPOSED PROPERTY LINE |
| --- | ABUTTING PROPERTY LINE |
| --- | BUILDING SETBACK LINE |
| --- | WETLAND EDGE |
| △ WF | WETLAND FLAG |
| --- | 50' PERIMETER WETLAND |
| --- | 100' RIVERBANK WETLAND |
| --- | 200' RIVERBANK WETLAND |
| --- | EXISTING EASEMENT |
| --- | 100' EXISTING CONTOUR |
| --- | PROPOSED CONTOUR |
| --- | SLOPES > 15% |
| ○ | EXISTING STONE WALL |
| ○ | IRON PIN |
| ○ | DRILL HOLE |
| □ | CONCRETE BOUND |
| --- | EXISTING CURB |
| --- | GUARD RAIL |
| --- | DRAIN LINE |
| ○ | DRAINAGE MANHOLE |
| ○ | CATCH BASIN |
| ○ | UTILITY POLE |
| --- | OVERHEAD WIRES |
| --- | UNDERGROUND ELECTRIC |
| --- | VERIZON LINE |
| --- | WATER LINE |
| ○ | WATER SHUT OFF VALVE |
| ○ | WELL |
| ○ | SEWER |
| ○ | SMH |
| N/F | NOW OR FORMERLY |
| --- | TREELINE |
| --- | HAY BALES |
| --- | LIMIT OF DISTURBANCE |
| --- | SOIL EVALUATION |



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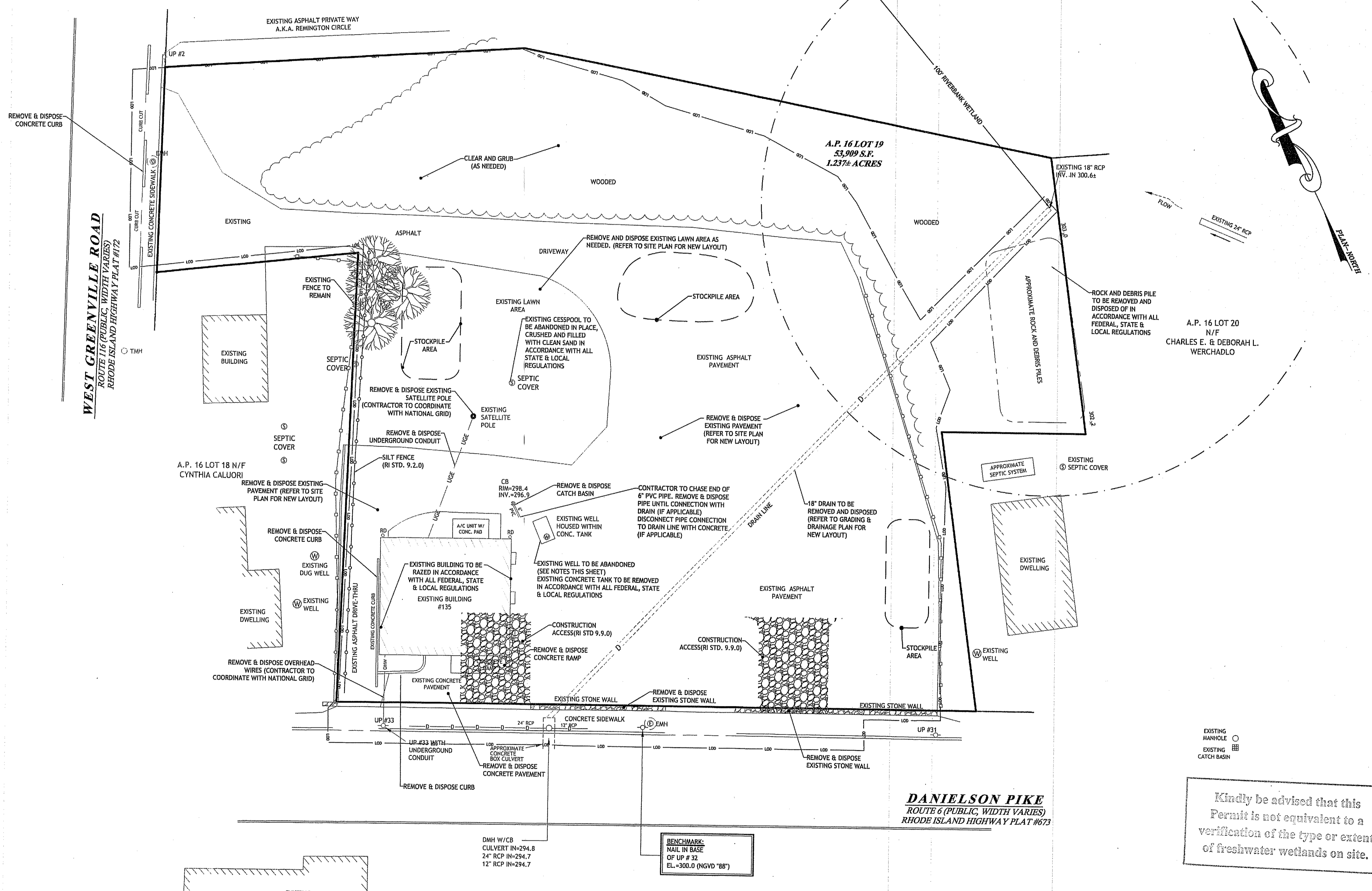
- LEGEND**
- EXISTING PROPERTY LINE
 - PROPOSED PROPERTY LINE
 - ABUTTING PROPERTY LINE
 - BUILDING SETBACK LINE
 - WETLAND EDGE
 - WF WETLAND FLAG
 - 50' PERIMETER WETLAND
 - 100' RIVERBANK WETLAND
 - 200' RIVERBANK WETLAND
 - EXISTING EASEMENT
 - 100' EXISTING CONTOUR
 - PROPOSED CONTOUR
 - SLOPES > 15%
 - EXISTING STONE WALL
 - IRON PIN
 - DRILL HOLE
 - CONCRETE BOUND
 - EXISTING CURB
 - GUARD RAIL
 - DRAIN LINE
 - DRAINAGE MANHOLE
 - CATCH BASIN
 - UTILITY POLE
 - OVERHEAD WIRES
 - UNDERGROUND ELECTRIC
 - VERIZON LINE
 - WATER LINE
 - WATER SHUT OFF VALVE
 - WELL
 - SEWER
 - SMH
 - N/F --- NOW OR FORMERLY
 - TREELINE
 - HAY BALES
 - LIMIT OF DISTURBANCE
 - SOIL EVALUATION

| ZONING CRITERIA | REQUIRED |
|--|------------------|
| ZONING DISTRICT | BUSINESS GENERAL |
| MINIMUM FRONT YARD DEPTH | 25 FT |
| MINIMUM SIDE YARD DEPTH | 40 FT |
| MINIMUM REAR YARD DEPTH | 40 FT |
| MINIMUM DISTANCE FROM STRUCTURE TO RESIDENCE DISTRICT BOUNDARY | 30 FT |
| MAXIMUM BUILDING COVERAGE | 25% |
| MAXIMUM BUILDING HEIGHT | 36 FT |

*THE MINIMUM FRONT YARD SHALL BE NO GREATER THAN THE ESTABLISHED HISTORIC BUILDING LINE WITHIN THE VILLAGE.

PROCEDURE FOR PERMANENT ABANDONMENT
 IN THE EVENT OF PERMANENT ABANDONMENT OF ANY WATER WELL THE PROPER PROCEDURE AND MATERIALS SHALL BE USED, AS FOLLOWS:

- A. THE WELL SHALL BE PLUGGED TO PREVENT THE ENTRANCE OF SURFACE WATER, CIRCULATION OF WATER BETWEEN OR AMONG PRODUCING ZONES, OR ANY OTHER PROCESS RESULTING IN THE CONTAMINATION OR POLLUTION OF GROUNDWATER RESOURCES.
- B. THE WELL SHALL BE SEALED WITH A WATERTIGHT CAP OR SEAL.
- C. THE WELL SHALL BE CHLORINATED PRIOR TO ABANDONMENT USING A CHLORINE SOLUTION WITH A MINIMUM CONCENTRATION OF ONE HUNDRED FIFTY PARTS PER MILLION (150 PPM) OF RESIDUAL CHLORINE.
- D. THE WELL SHALL BE CHECKED FROM LAND SURFACE TO THE ENTIRE DEPTH OF THE WELL BEFORE IT IS SEALED, TO ENSURE AGAINST THE PRESENCE OF ANY OBSTRUCTION THAT WILL INTERFERE WITH SEALING OPERATIONS.
- E. ALL CASING AND SCREEN MATERIALS THAT HAVE SALVAGE VALUE MAY BE REMOVED BY THE CONTRACTOR.
- F. THE WELL BORE SHALL BE FILLED AND SEALED WITH ANY OF THE FOLLOWING MATERIALS: HEAT CEMENT GROUT, OR SAND CLAY OR BENTONITE CEMENT GROUT.
- G. THE GROUT MATERIAL SHALL BE PLACED THROUGH A PIPE EXTENDING TO THE BOTTOM OF THE WELL, WHICH SHALL BE RAISED AS THE WELL IS FILLED.
- H. ANY WELL CONSTRUCTED IN A CONSOLIDATED ROCK FORMATION, MAY BE FILLED WITH FINE SAND IN THE ZONE OR ZONES OF CONSOLIDATED ROCK BUT CANNOT ALLOW THE CIRCULATION OF WATER BETWEEN OR AMONG PRODUCING ZONES. THE TOP OF THE SAND FILL SHALL BE AT LEAST TEN (10) FEET BELOW THE TOP OF THE CONSOLIDATED ROCK, AND THE REMAINING SPACE WITH THE MATERIALS SPECIFIED IN SUBSECTION (F.).
- I. ANY TEST WELL OR BORE SHALL BE ABANDONED IN SUCH A MANNER THAT IT DOES NOT BECOME A CHANNEL FOR THE VERTICAL MOVEMENT OF WATER OR OTHER SUBSTANCE TO THE POTABLE GROUNDWATER RESOURCE.
- J. UPON COMPLETION OF ABANDONMENT OF THE WELL, THE TOP OF THE CASING OR GROUT MATERIAL SHALL BE TERMINATED AT LEAST FOUR (4) FEET BELOW THE GROUND SURFACE.
- K. PLUGGING AND ABANDONING OF A WELL TO BE ABANDONED SHALL BE PERFORMED ONLY BY A LICENSED WELL DRILLER.



DANIELSON PIKE
 ROUTE 6 (PUBLIC, WIDTH VARIES)
 RHODE ISLAND HIGHWAY PLAT #673

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED NOV - 4 2011 FILE # 11-2082
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Carey

SCALE (FEET)
 0 10 20 40 80
 1 INCH = 20 FT

JCE
 JOE CASALI ENGINEERING, INC.
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION
 DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN
 401-844-1920 (01)984-1313 FAX: 401-844-1313

JOSEPH A. CASALI
 No. 7250
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 9.1.11

DEXTER CREDIT UNION
 135 DANIELSON PIKE
 SCITUATE, RHODE ISLAND
 AP 16 LOT 19

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|---------|----------------|
| 1 | 7/11/11 | RIDOT COMMENTS |
| 2 | 8/19/11 | RIDEM COMMENTS |

DESIGNED BY: GEC
 DRAWN BY: WMLJR
 CHECKED BY: JAC
 DATE: MARCH 2011
 PROJECT NO: 11-03

PRELIMINARY, NOT FOR CONSTRUCTION

SITE PREPARATION PLAN

SHEET 4 OF 11

Q:\11-03 NES Group\11-03a Dexter CU Danielson Pike Schmitz\AC\AD\DEXTER_CU_PLANS\SETR 2.dwg, Sep, 02, 2011 8:46am



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 1-888-344-7233

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- ABUTTING PROPERTY LINE
- BUILDING SETBACK LINE
- WETLAND EDGE
- WETLAND FLAG
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- 200' RIVERBANK WETLAND
- EXISTING EASEMENT
- 100' EXISTING CONTOUR
- PROPOSED CONTOUR
- SLOPES > 15%
- EXISTING STONE WALL
- IRON PIN
- DRILL HOLE
- CONCRETE BOUND
- EXISTING CURB
- GUARD RAIL
- DRAIN LINE
- DRAINAGE MANHOLE
- CATCH BASIN
- UTILITY POLE
- OVERHEAD WIRES
- UNDERGROUND ELECTRIC
- VERIZON LINE
- WATER LINE
- WATER SHUT OFF VALVE
- WELL
- SEWER
- SMH
- N/F - NOW OR FORMERLY
- TREELINE
- HAY BALES
- LIMIT OF DISTURBANCE
- SOIL EVALUATION

ZONING CRITERIA

| ZONING DISTRICT | REQUIRED |
|--|----------|
| BUSINESS GENERAL | |
| MINIMUM FRONT YARD DEPTH | 25 FT |
| MINIMUM SIDE YARD DEPTH | 40 FT |
| MINIMUM REAR YARD DEPTH | 30 FT |
| MINIMUM DISTANCE FROM STRUCTURE TO RESIDENCE DISTRICT BOUNDARY | 30 FT |
| MAXIMUM BUILDING COVERAGE | 25% |
| MAXIMUM BUILDING HEIGHT | 36 FT |

*THE MINIMUM FRONT YARD SHALL BE NO GREATER THAN THE ESTABLISHED HISTORIC BUILDING LINE WITHIN THE VILLAGE.

PARKING REQUIREMENTS

OFFICE USE: 1 SPACE PER 250SF
 3,250 SF (BRANCH) + 250 SF (LOAN OFFICES) = 3,500 SF / 250 SF = 14 SPACES
PARKING REQUIRED: 14 SPACES
PARKING PROVIDED: 19 SPACES

BITUMINOUS PAVEMENT STRUCTURE
 1 1/2" BITUMINOUS CONCRETE CLASS 1, TYPE 1
 1 1/2" BITUMINOUS BINDER, CLASS 1
 12" BORROW OR GRAVEL

TEST HOLE DATA

| TH ID | GROUND ELEV | ESHWGT ELEV. |
|-------|-------------|--------------|
| 11-1 | 301.0 | 295.0 |
| 11-2 | 299.4 | 293.4 |
| 11-3 | 299.3 | 293.3 |
| 11-4 | 299.7 | 293.7 |
| 11-5 | 301.6 | 295.6 |

NOTE:
 SOIL EVALUATIONS COMPLETED BY ECOSYSTEMS SOLUTIONS, INC. ON APRIL 12, 2011.

GENERAL NOTES:
 1. CONTRACTOR TO REFER TO ARCHITECTURAL PLANS/STRUCTURAL PLANS FOR ACTUAL SIZE OF THE PROPOSED BUILDING.

RHODE ISLAND STANDARDS

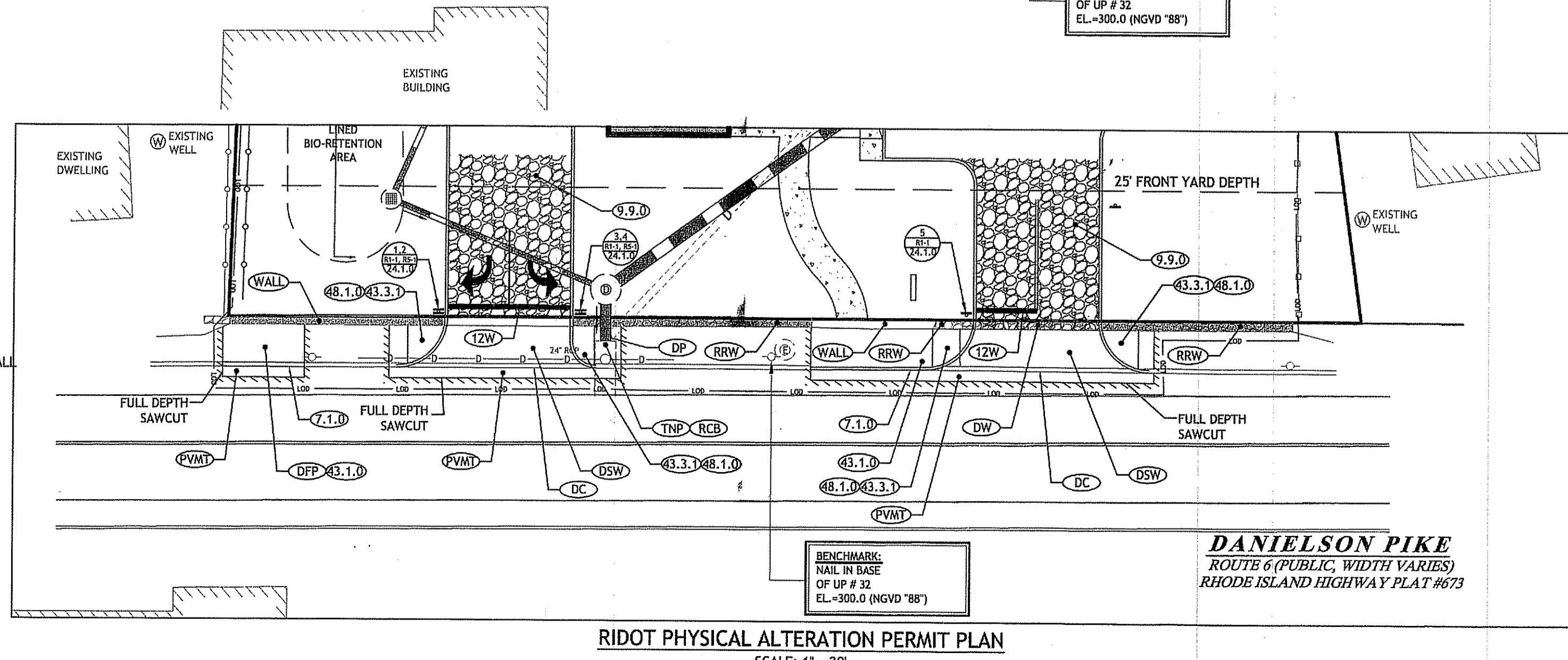
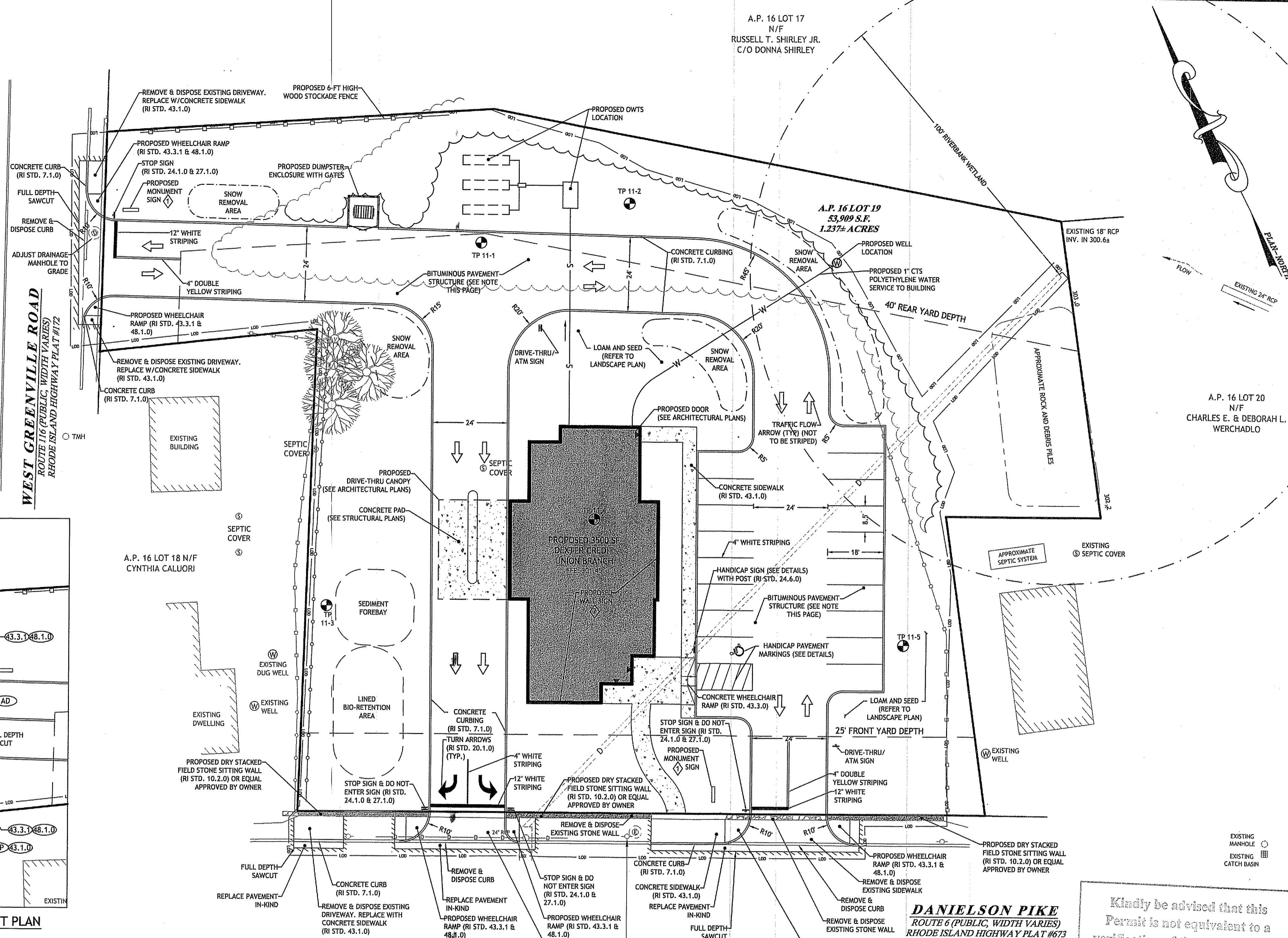
- (4.2.2) PRECAST 6'-0" ROUND MANHOLE
- (4.4.0) PRECAST 4'-0" ROUND CATCH BASIN
- (6.2.0) ROUND FRAME AND COVER LIGHT-DUTY
- (6.2.1) HEAVY-DUTY ROUND FRAME AND COVER
- (7.1.0) CONCRETE CURB
- (7.1.1) 3' PRECAST CONCRETE TRANSITION CURB
- (9.2.0) SILT FENCE DETAIL
- (9.9.0) CONSTRUCTION ACCESS
- (10.2.0) RUBBLE MASONRY WALL
- (24.1.0) SIGN POST SELECTION AND INSTALLATION DETAILS SQUARE POST
- (24.6.0) PARKING SIGN MOUNTING DETAIL
- (27.1.0) REGULATORY SIGNS
- (43.1.0) CONCRETE SIDEWALK
- (43.3.0) WHEELCHAIR RAMP
- (43.4.0) DRIVEWAY DEVELOPMENT FOR 3' TRANSITION CURB
- (43.5.0) CEMENT CONCRETE DRIVEWAY

- (AD) ADJUST DRAINAGE MANHOLE TO GRADE
- (DC) REMOVE AND DISPOSE CURB
- (DP) REMOVE AND DISPOSE FLEXIBLE PAVEMENT
- (DP) REMOVE AND DISPOSE PIPE
- (DSW) REMOVE AND DISPOSE SIDEWALK
- (DW) REMOVE AND DISPOSE WALL
- (PVMT) REPLACE PAVEMENT IN-KIND
- (RCB) RECONSTRUCT CATCH BASIN
- (RRW) REMOVE AND REPLACE WALL WITH ORNAMENTAL WALL
- (TNP) TIE NEW PIPE INTO EXISTING STRUCTURE
- (X-X) PROPOSED ORNAMENTAL WALL
- (12W) 12" WHITE STRIPING
- (X) SIGN NUMBER
- (X-X) SIGN DESIGNATION
- (X-X) SIGN POST

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RIDOT PHYSICAL ALTERATION PERMIT PLAN

SCALE: 1" = 20'



RIDOT PHYSICAL ALTERATION PERMIT PLAN

SCALE: 1" = 20'

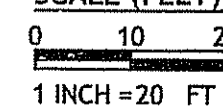
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED NOV - 4 2011 FILE # 11-0080
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Carey

- VARIANCES:**
- 1. ARTICLE VII SECTION 2B - NUMBER OF FREESTANDING SIGNS.
 - 2. ARTICLE VII SECTION 2C - LOCATION OF WALL MOUNTED SIGNS.

- NOTES:**
- ALL WORK WITHIN THE STATE'S RIGHT-OF-WAY SHALL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION INCLUDING ALL REVISIONS AND STANDARD DETAILS, JUNE 15, 1998 AS AMENDED BY REVISION.
 - UTILITY WORK SHOWN AS REFERENCE. THIS WORK NEEDS TO BE PERMITTED THROUGH A UTILITY PHYSICAL ALTERATION PERMIT (PAP) WITH RIDOT'S DIVISION OF MAINTENANCE.

SCALE (FEET)



DEXTER CREDIT UNION
 135 DANIELSON PIKE
 SCITUATE, RHODE ISLAND
 AP 16 LOT 19

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|---------|----------------|
| 1 | 7/11/11 | RIDOT COMMENTS |
| 2 | 8/19/11 | RIDEM COMMENTS |

DESIGNED BY: GEC
 DRAWN BY: WMLJR
 CHECKED BY: JAC
 DATE: MARCH 2011
 PROJECT NO: 11-03

PRELIMINARY, NOT FOR CONSTRUCTION

SITE PLAN

SHEET 5 OF 11

JOE CASALI ENGINEERING, INC.
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION
 DRAINAGE - WETLANDS - I&DS - TRAFFIC - FLOODPLAIN
 300 POST ROAD, WARWICK, RI 02888
 (401) 844-1500 (401) 844-1515 FAX (401) 844-1511

JOSEPH A. CASALI
 No. 1250
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 9.1.11



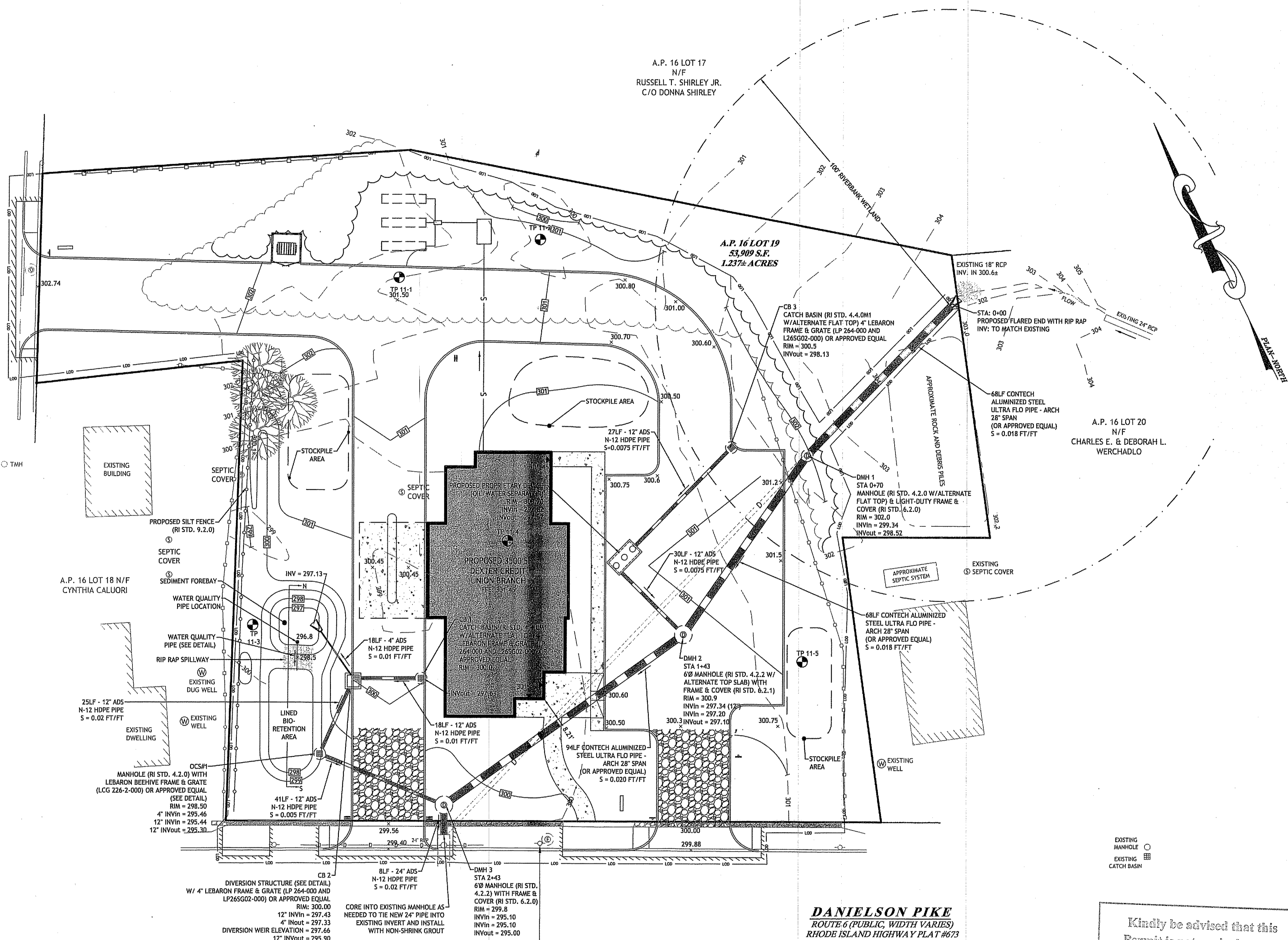
- LEGEND**
- EXISTING PROPERTY LINE
 - PROPOSED PROPERTY LINE
 - - - ABUTTING PROPERTY LINE
 - - - BUILDING SETBACK LINE
 - - - WETLAND EDGE
 - △ WF WETLAND FLAG
 - 50' PERIMETER WETLAND
 - 100' RIVERBANK WETLAND
 - 200' RIVERBANK WETLAND
 - EXISTING EASEMENT
 - 100 --- EXISTING CONTOUR
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 - UTILITY POLE
 - OVERHEAD WIRES
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 - WELL
 - SEWER
 - SMH
 - N/F --- NOW OR FORMERLY
 - TREELINE
 - HAY BALES
 - LIMIT OF DISTURBANCE
 - SOIL EVALUATION

| ZONING CRITERIA | REQUIRED |
|--|------------------|
| ZONING DISTRICT | BUSINESS GENERAL |
| MINIMUM FRONT YARD DEPTH | 25 FT |
| MINIMUM SIDE YARD DEPTH | 40 FT |
| MINIMUM REAR YARD DEPTH | 30 FT |
| MINIMUM DISTANCE FROM STRUCTURE TO RESIDENCE DISTRICT BOUNDARY | 25% |
| MAXIMUM BUILDING COVERAGE | 36 FT |
| MAXIMUM BUILDING HEIGHT | |

| TEST HOLE DATA | | |
|----------------|--------------|--------------|
| TH ID | GROUND ELEV. | ESHWGT ELEV. |
| 11-1 | 301.0 | 295.0 |
| 11-2 | 299.4 | 293.4 |
| 11-3 | 299.3 | 293.3 |
| 11-4 | 299.7 | 293.7 |
| 11-5 | 301.6 | 295.6 |

NOTE:
SOIL EVALUATIONS COMPLETED BY ECOSYSTEMS SOLUTIONS, INC. ON APRIL 12, 2011.

WEST GREENVILLE ROAD
ROUTE 116 (PUBLIC, WIDTH VARIES)
RHODE ISLAND HIGHWAY PLAT #172



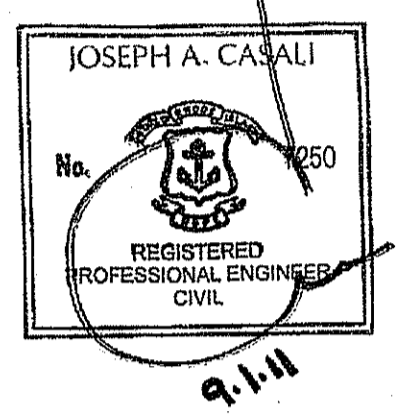
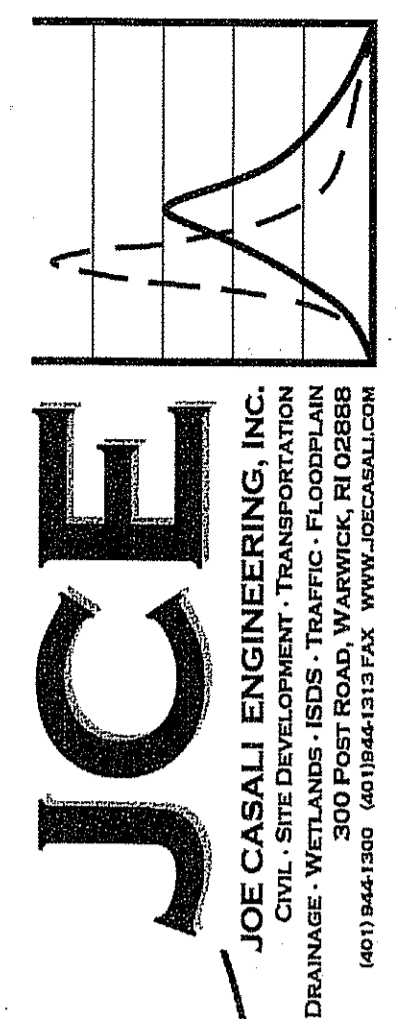
DANIELSON PIKE
ROUTE 6 (PUBLIC, WIDTH VARIES)
RHODE ISLAND HIGHWAY PLAT #673

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **NOV - 4 2011** FILE # **11-0020**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Carney

SCALE (FEET)
0 10 20 40 80
1 INCH = 20 FT



DEXTER CREDIT UNION
135 DANIELSON PIKE
SCITUATE, RHODE ISLAND
AP 16 LOT 19

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|---------|----------------|
| 1 | 7/11/11 | RIDOT COMMENTS |
| 2 | 8/19/11 | RIDEM COMMENTS |

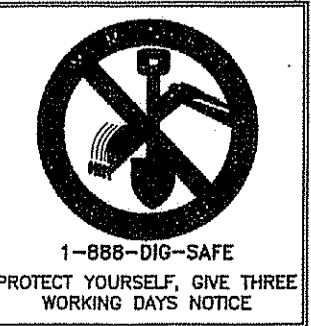
DESIGNED BY: GEC
DRAWN BY: WMLJR
CHECKED BY: JAC
DATE: MARCH 2011
PROJECT NO: 11-03

PRELIMINARY, NOT FOR CONSTRUCTION

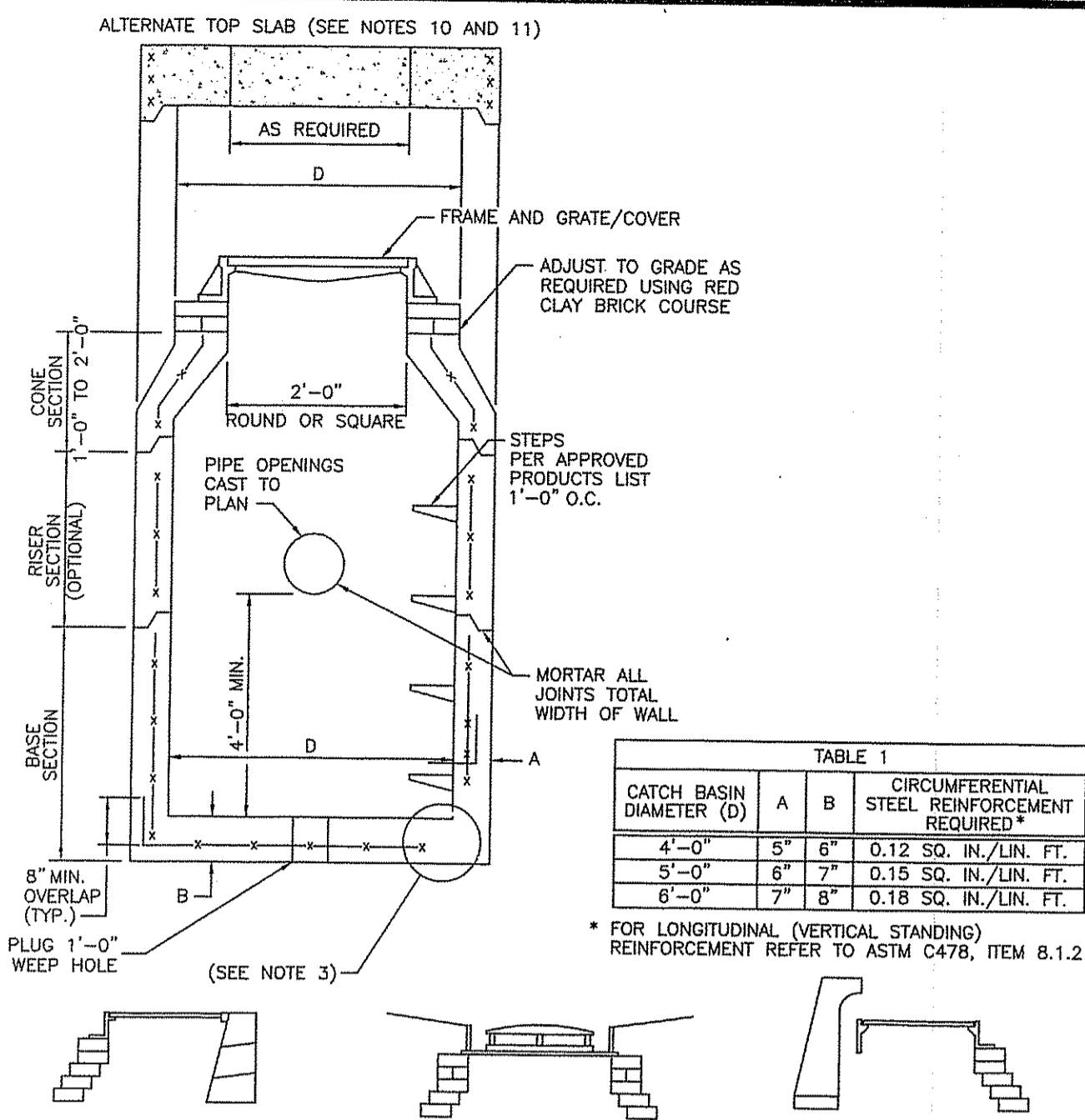
GRADING & DRAINAGE PLAN

SHEET 6 OF 11

11-03-05 RLS Group:1 03a Dexter C.U. Danielson Pike Scituate, RI 02888 (401) 944-1100 AUG. 31, 2011 4:01 PM

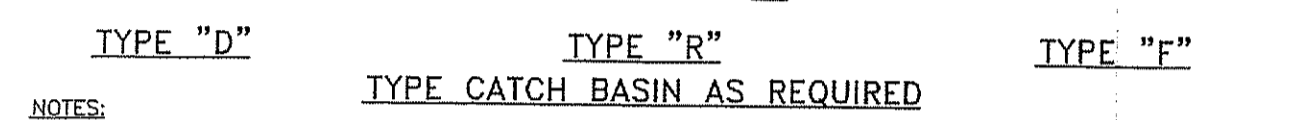


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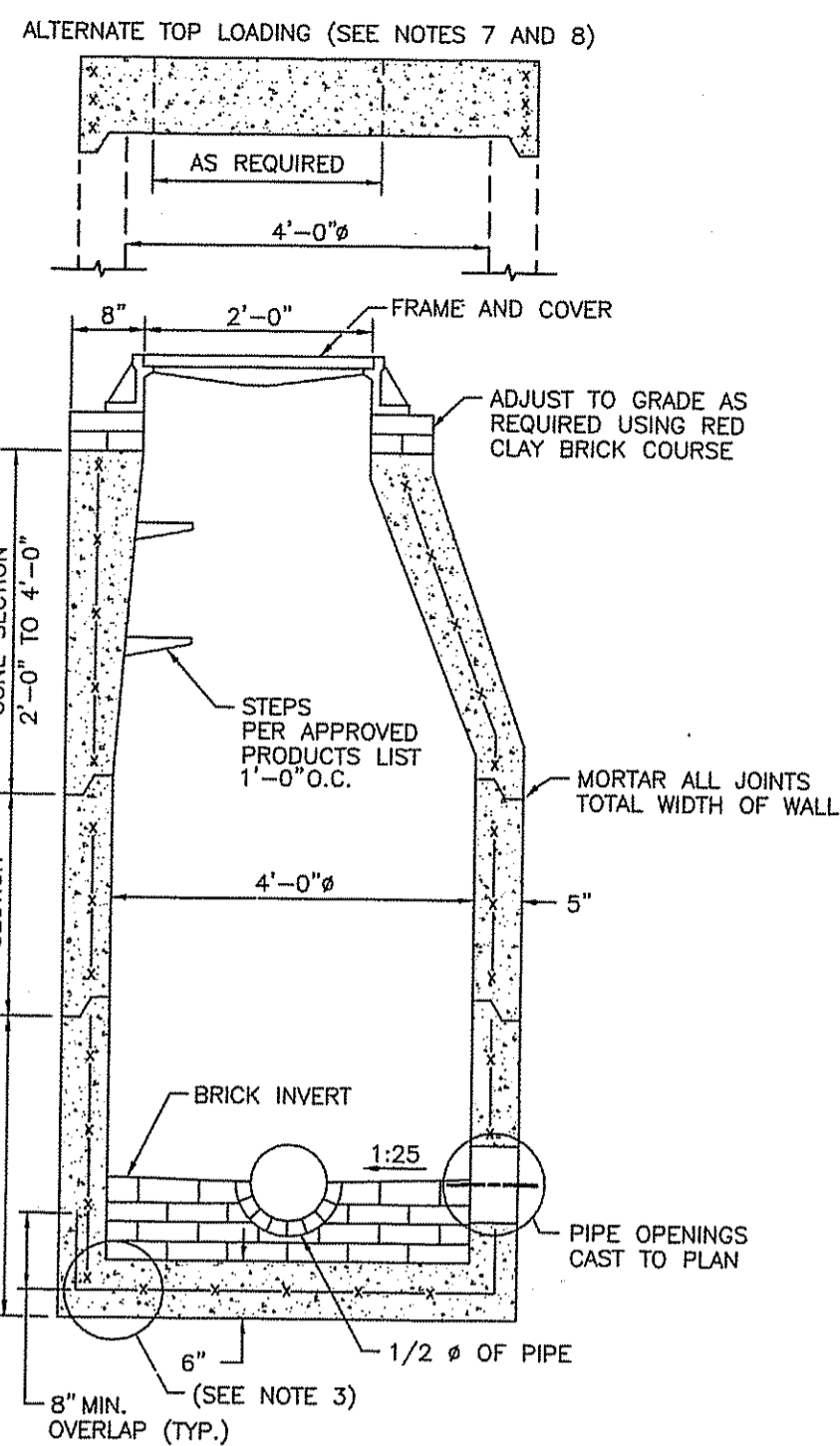
| CATCH BASIN DIAMETER (D) | A | B | CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED |
|--------------------------|----|----|--|
| 4'-0" | 5" | 6" | 0.12 SQ. IN./LIN. FT. MINIMUM |
| 5'-0" | 6" | 7" | 0.18 SQ. IN./LIN. FT. MINIMUM |
| 6'-0" | 7" | 8" | 0.18 SQ. IN./LIN. FT. MINIMUM |

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



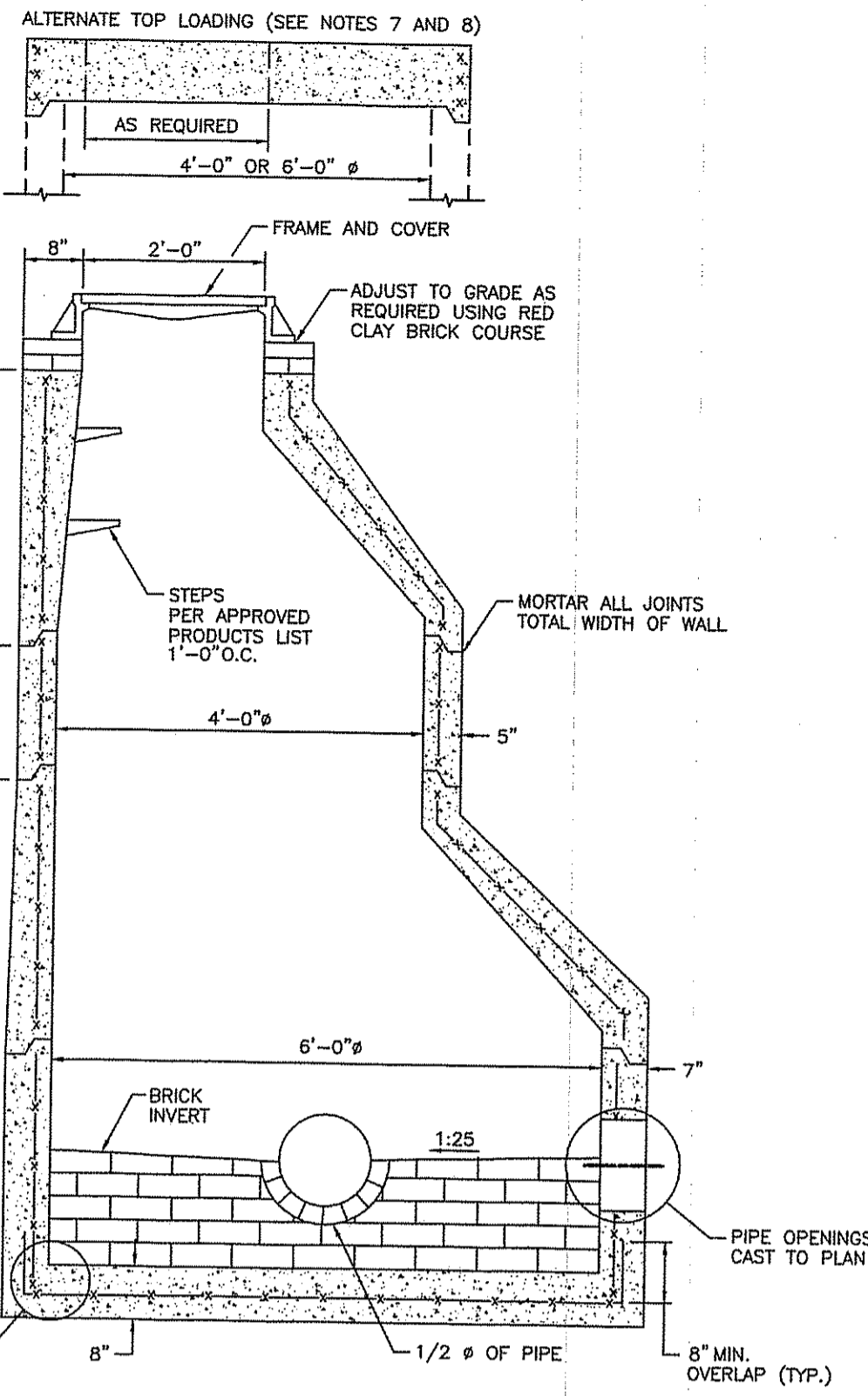
- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 - ONE POUR MONOLITHIC BASE SECTION.
 - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 - CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
 - FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
 - THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
 - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 - ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

PRECAST 4'-0", 5'-0" OR 6'-0" ROUND CATCH BASIN **R.I. STANDARD 4.4.0 M1**



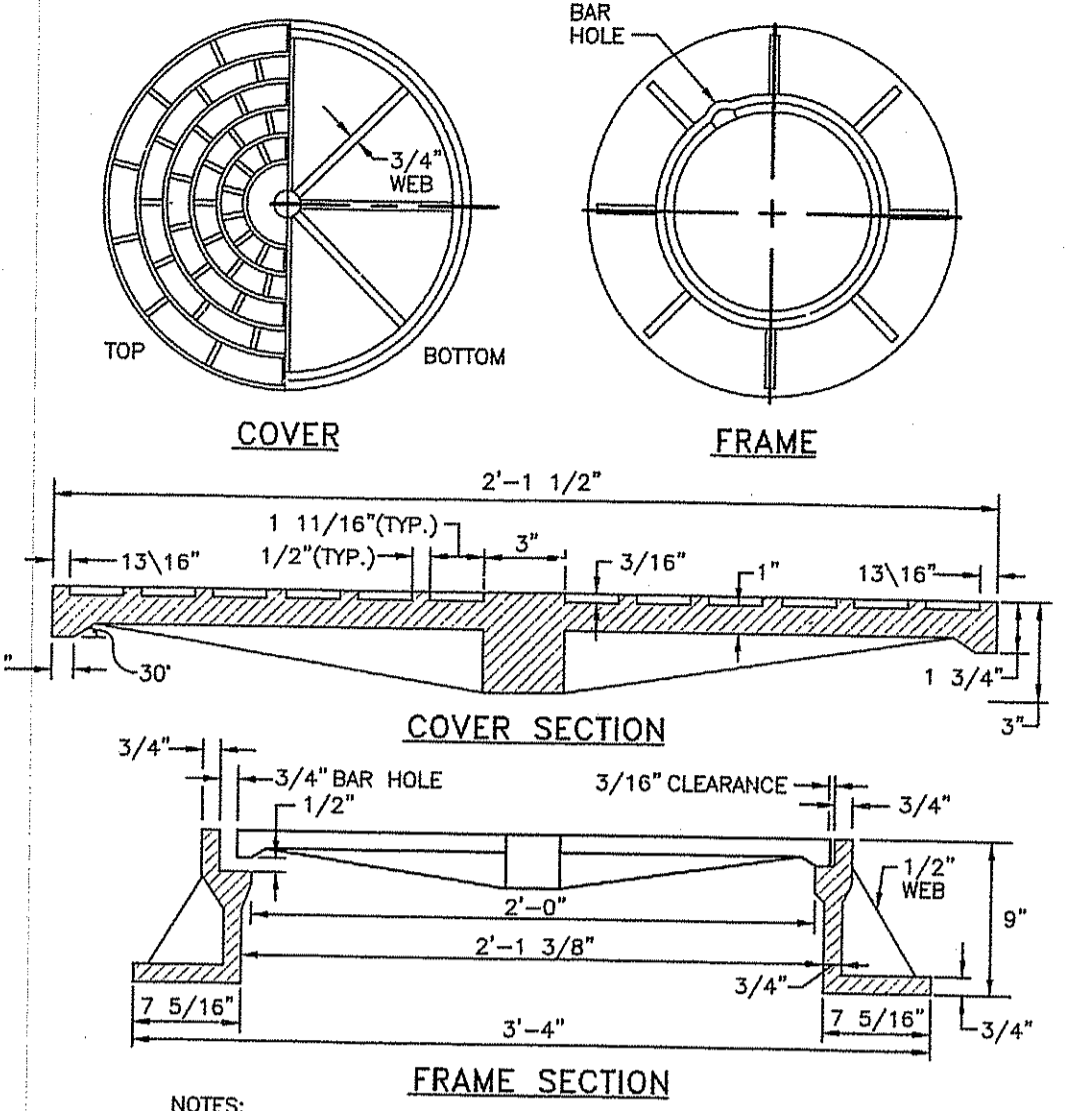
- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN./LIN. FT. MINIMUM.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 - ONE POUR MONOLITHIC BASE SECTION.
 - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 - ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

PRECAST 4'-0" ROUND MANHOLE **R.I. STANDARD 4.2.0**



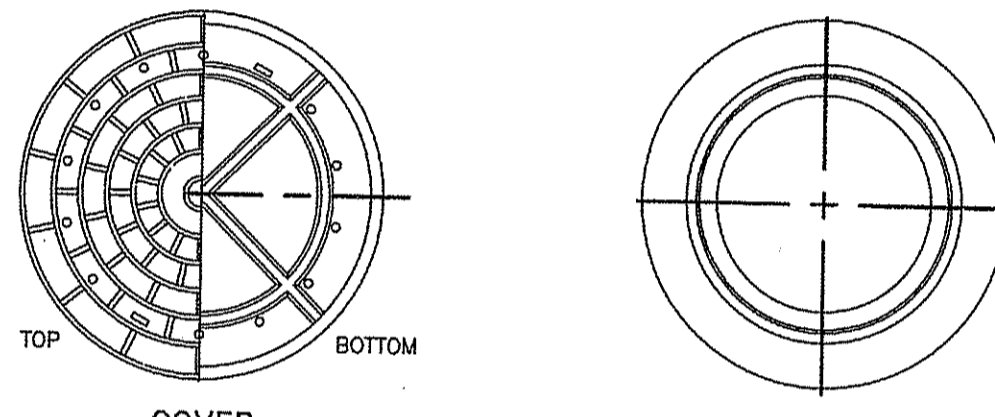
- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.15 SQ. IN./LIN. FT. MINIMUM.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 - ONE POUR MONOLITHIC BASE SECTION.
 - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 - ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

PRECAST 6'-0" ROUND MANHOLE **R.I. STANDARD 4.2.2**



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

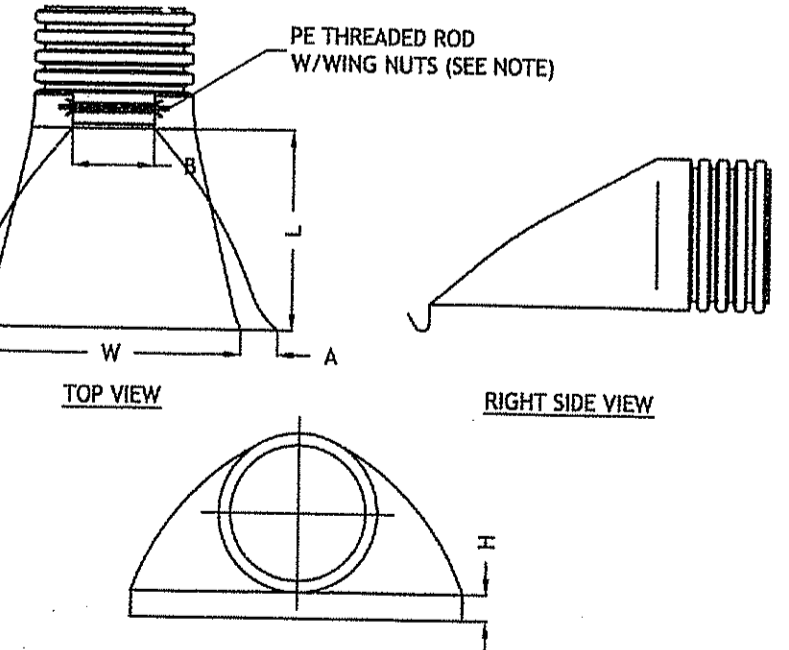
HEAVY-DUTY ROUND FRAME AND COVER **R.I. STANDARD 6.2.1**



- NOTE: FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.

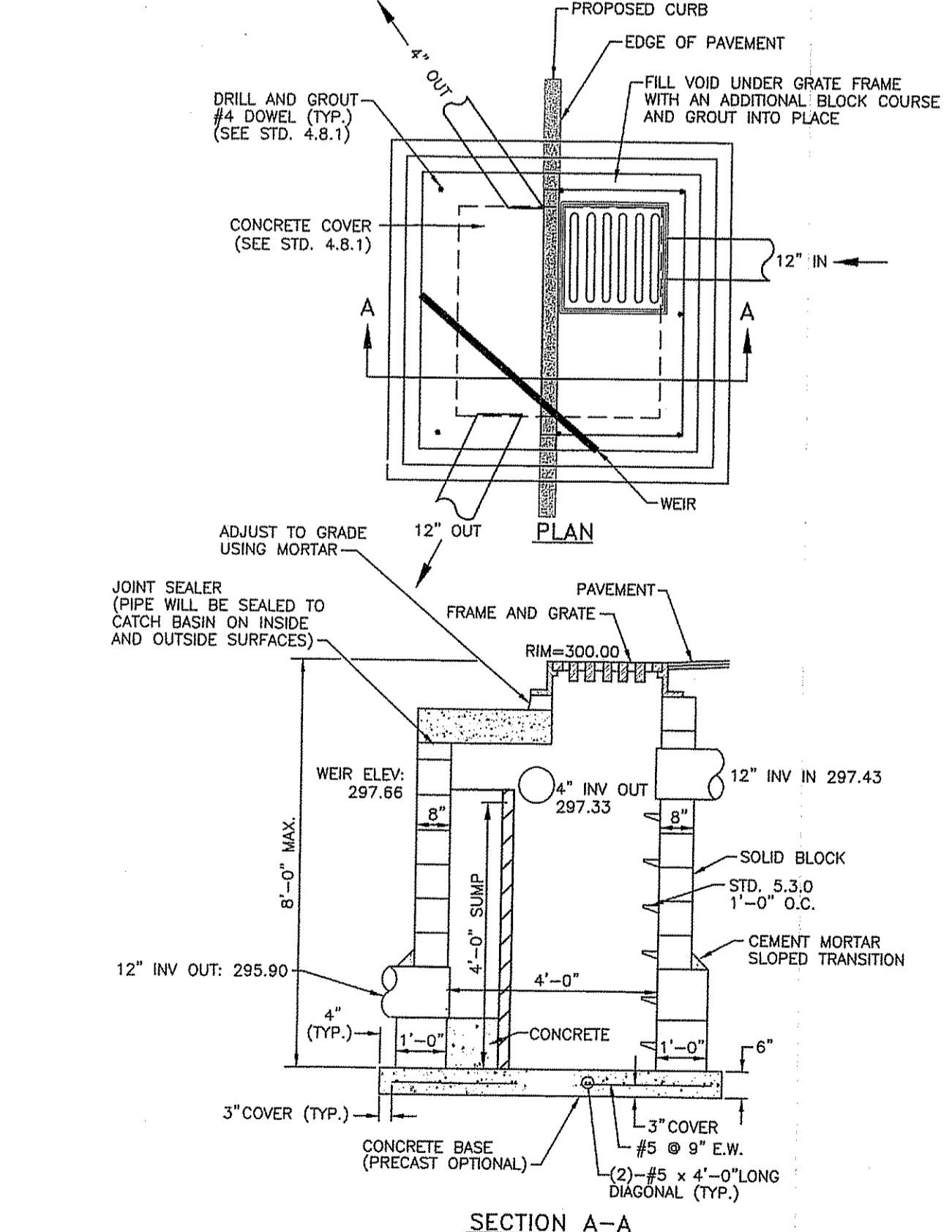
ROUND FRAME AND COVER LIGHT-DUTY **R.I. STANDARD 6.2.0**

ADS N-12 FLARED END SECTIONS



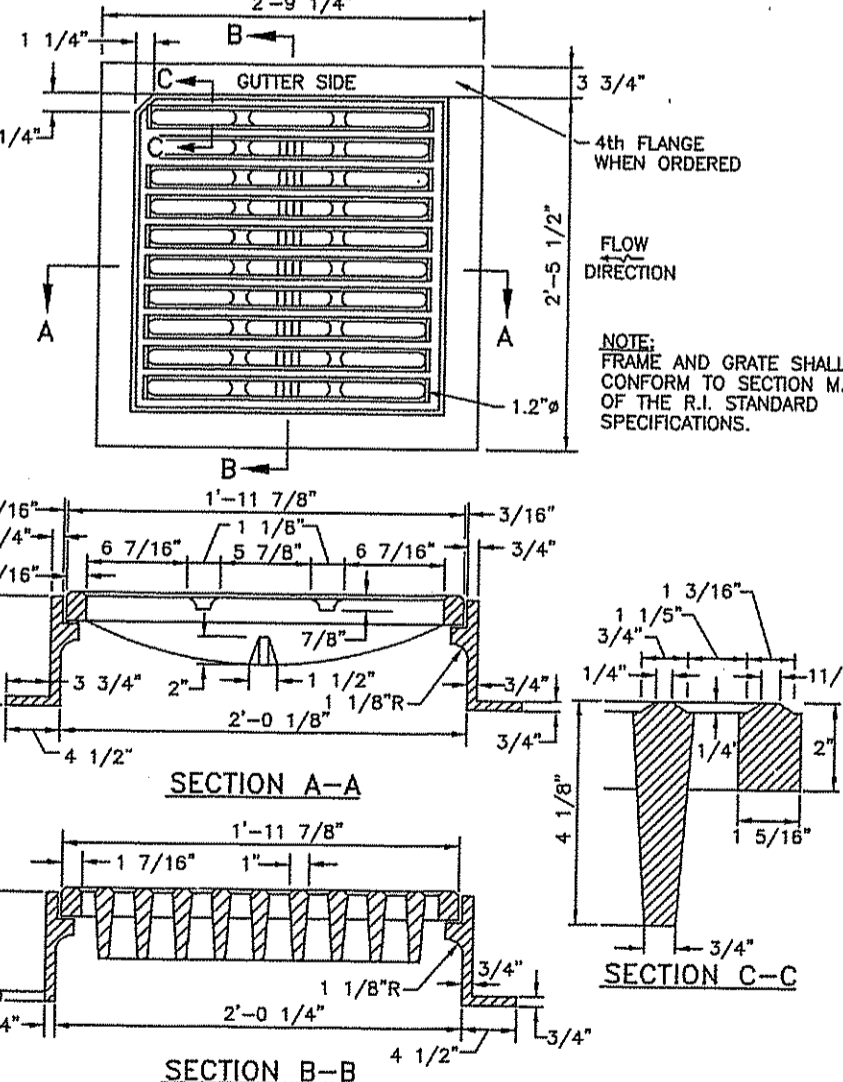
| PART # | PIPE SIZE | A | B (MAX) | H | L | W |
|---------|-----------|--------|---------|--------|---------|---------|
| 1210-NP | 12" | 6.5" | 10" | 6.5" | 25" | 29" |
| 1210-NP | 300 mm | 165 mm | 254 mm | 165 mm | 635 mm | 735 mm |
| 1810-NP | 18" | 6.5" | 10" | 6.5" | 25" | 29" |
| 1810-NP | 375 mm | 165 mm | 254 mm | 165 mm | 635 mm | 735 mm |
| 2410-NP | 24" | 7.5" | 15" | 7.5" | 35" | 39" |
| 2410-NP | 450 mm | 190 mm | 380 mm | 190 mm | 812 mm | 890 mm |
| 3012-NP | 30" | 10.5" | N/A | 10.5" | 900 mm | 1140 mm |
| 3012-NP | 750 mm | 265 mm | N/A | 265 mm | 1345 mm | 1725 mm |
| 3612-NP | 36" | 10.5" | N/A | 10.5" | 900 mm | 1140 mm |
| 3612-NP | 900 mm | 265 mm | N/A | 265 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 MANUFACTURERS RECOMMENDATIONS.



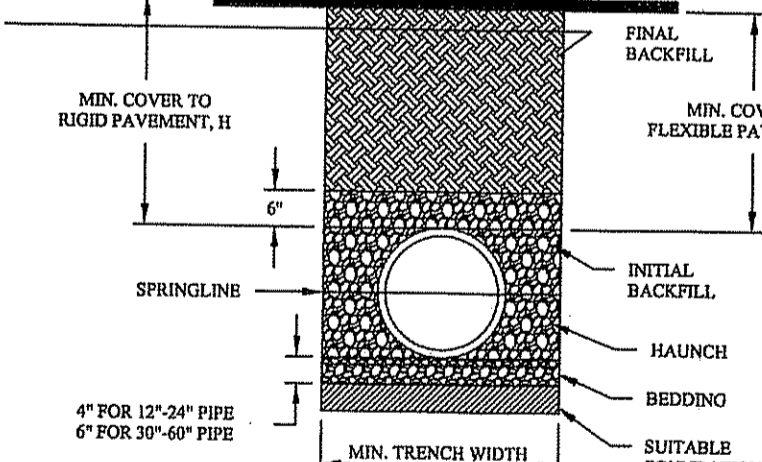
- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - 1/2" CEMENT MORTAR COAT REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.
 - 8" HIGH FRAME MAY BE SUBSTITUTED WITH A 4" HIGH FRAME AS NEEDED. SHOP DRAWINGS ARE REQUIRED.
 - ADJUST DOWEL LOCATION BASED ON PIPE CONFIGURATION, IF REQUIRED.
 - PIPE COVER FOR THIS DETAIL SHALL BE 1'-8" TO 3'-0".
 - USE 8" WALLS UP TO 6'-0" DEPTH, USE 1'-0" WALLS UP TO 8'-0" DEPTH.
 - TWO SINGLE FRAMES WITH THREE FLANGES AND TWIN GRATES MAY BE SUBSTITUTED FOR THE DOUBLE FRAME WITH TWIN GRATES.

WATER QUALITY FLOW DIVERSION STRUCTURE NTS



SQUARE FRAME AND GRATE (BICYCLE SAFE) **R.I. STANDARD 6.3.2**

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



| PIPE DIAM. | MIN. TRENCH WIDTH |
|------------|-------------------|
| 4" | 21" |
| 6" | 23" |
| 8" | 26" |
| 10" | 28" |
| 12" | 30" |
| 15" | 34" |
| 18" | 39" |
| 24" | 48" |
| 30" | 56" |
| 36" | 64" |
| 42" | 72" |
| 48" | 80" |
| 54" | 88" |
| 60" | 96" |

| PIPE DIAM. | H-25 | HEAVY CONSTRUCTION (75T AXLE LOAD)* |
|------------|------|-------------------------------------|
| 12"-48" | 12" | 48" |
| 54"-60" | 24" | 60" |

| PIPE DIAM. | DOOPER E-804 |
|------------|--------------|
| UP TO 24" | 24" |
| 30"-36" | 36" |
| 42"-60" | 48" |

** COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE
*** 8-00 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE

- NOTES:
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF FIBROPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
 - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
 - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 - BEDDING: SUITABLE MATERIAL SHALL BE CLASS II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-48" (750mm-600mm).
 - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 - MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT.

ADS PIPE TRENCH INSTALLATION DETAIL

OFFICE OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV - 4 2011 FILE # 11-0080
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Caray

JCE
JOE CASALI ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
DRAINAGE - WETLANDS - EDES - TRAFFIC - FLOODPLAIN
603.844.1300 (603)844.8133 FAX WWW.JCEENGINEERING.COM

JOSEPH A. CASALI
No. 750
REGISTERED PROFESSIONAL ENGINEER
CIVIL
9/1/11

DEXTER CREDIT UNION
135 DANIELSON PIKE
SCITUATE, RHODE ISLAND
AP 16 LOT 19

REVISIONS:

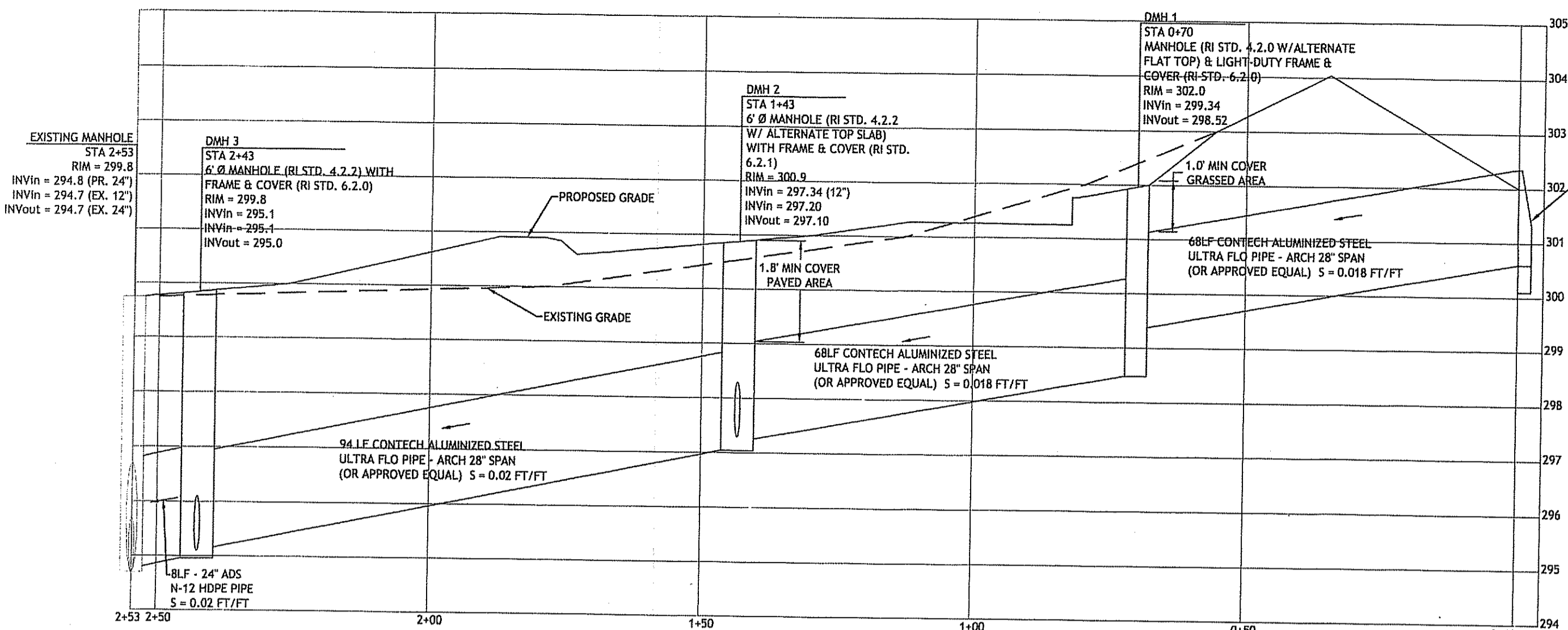
| NO. | DATE | DESCRIPTION |
|-----|---------|----------------|
| 1 | 7/11/11 | RIDOT COMMENTS |
| 2 | 8/19/11 | RIDEM COMMENTS |

DESIGNED BY: GEC
DRAWN BY: WMLJR
CHECKED BY: JAC
DATE: MARCH 2011
PROJECT NO: 11-0080

PRELIMINARY NOT FOR CONSTRUCTION

DETAILS II

SHEET 10 OF 11



REPLACEMENT CULVERT PROFILE
SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

REQUIRED WATER QUALITY VOLUME
IMPREVIOUS AREA: 28,486 SF
WQv = 1 1/2 X 28,486 CF
50% WQv = 1187 CF

REQUIRED WQv BECAUSE SITE IS A REDEVELOPMENT: 1187 CF

MINIMUM SEDIMENT FOREBAY VOLUME
25% WQv
(.25)(1187): 298 CF

VOLUME PROVIDED: 708 CF

MINIMUM SEDIMENT FOREBAY SURFACE AREA
As = 5,750 X Q
Q = (.25)(1187) / 86,400 = .0034
As = 19.75 SF = 20 SF

USE As = 298 CF / 2.2 FT = 135 SF

PROVIDED BOTTOM SURFACE AREA: 150 SF

MINIMUM FILTER BED AREA
Af = (WQv)(df)/(K)(h+df)(t)
Af = (1187)(2)/(1(.5+2)(2)) = 474.8 SF

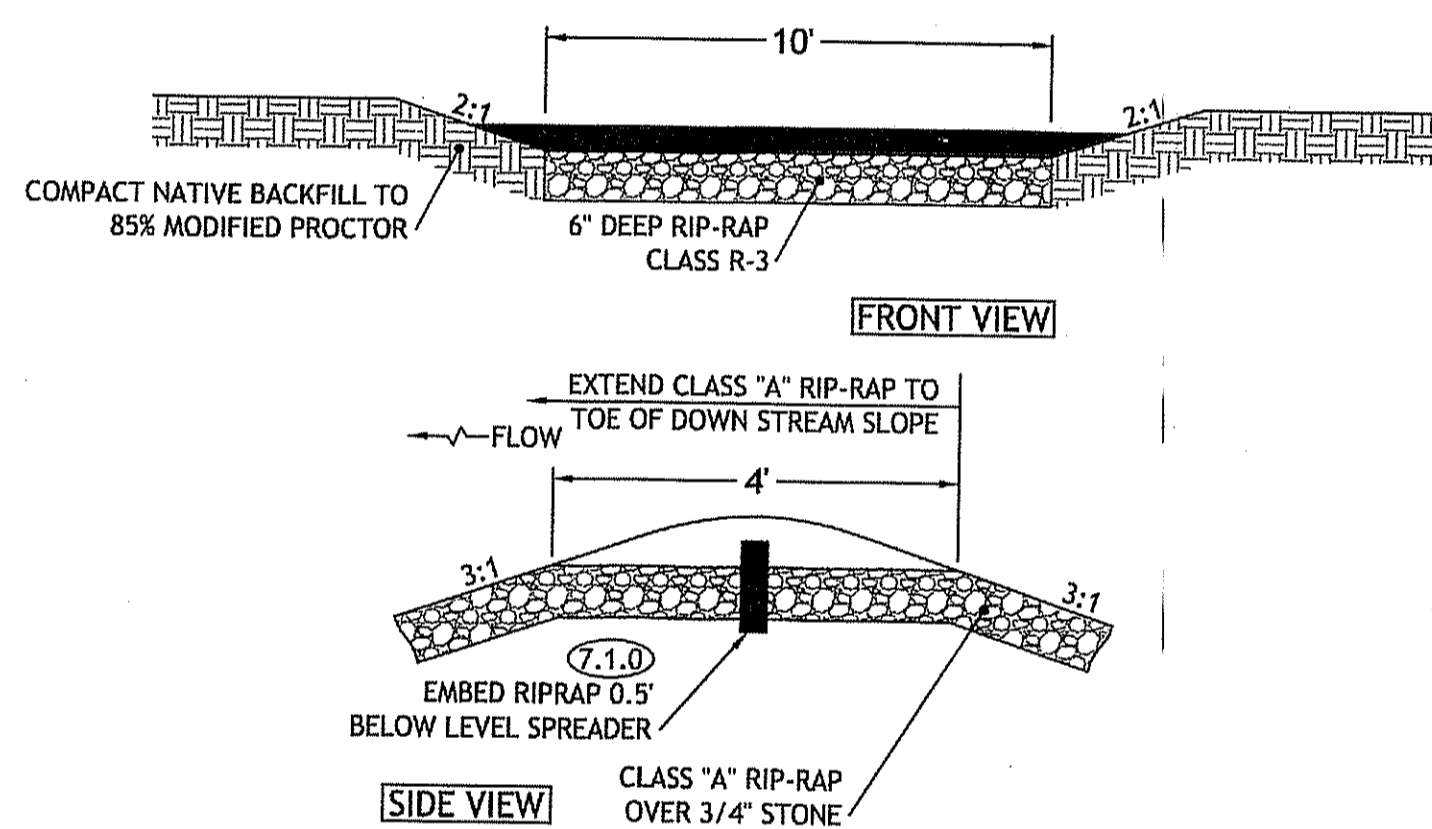
FILTER AREA PROVIDED: 500 SF

MINIMUM STORAGE VOLUME
75% WQv REQUIRED = (.75)(1187) = 891 CF

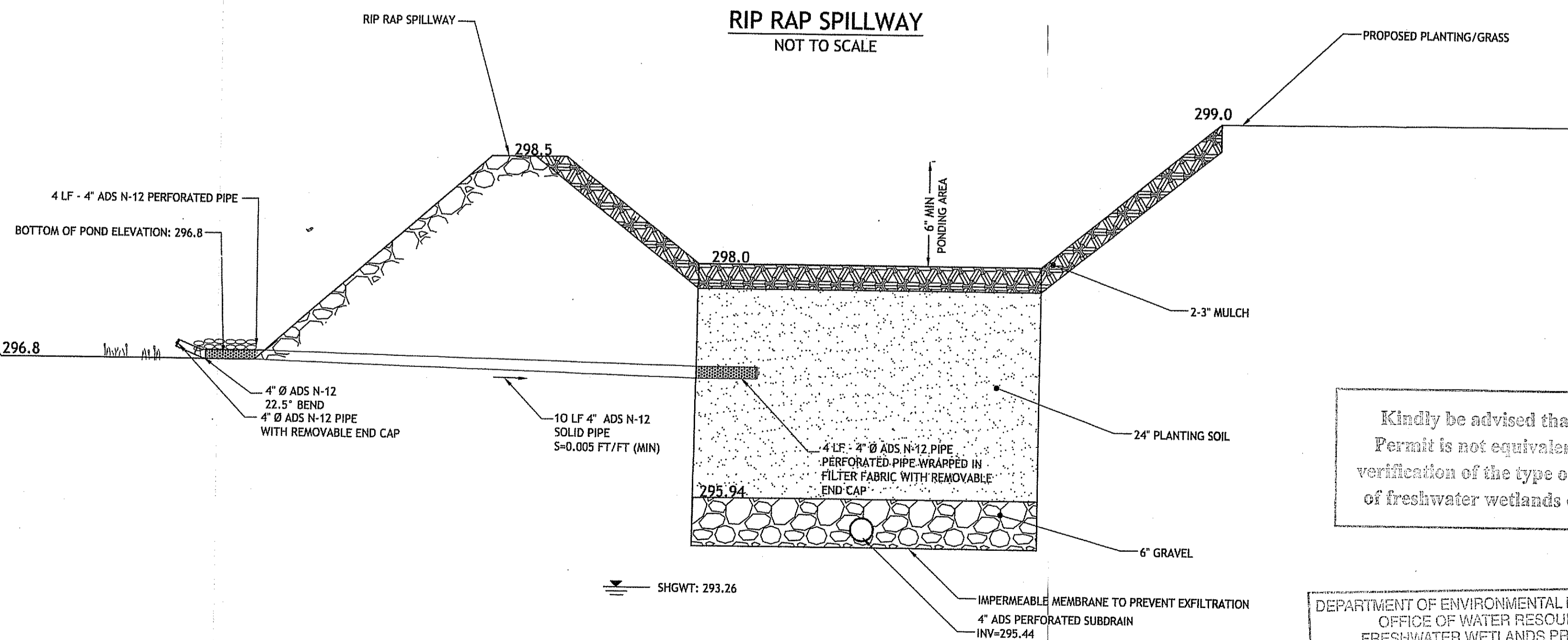
SEDIMENT FOREBAY VOLUME: 708 CF

BIORETENTION AREA VOLUME:
PONDING AREA: (500 SF)(.5 FT) = 250 CF
FILTERING AREA: (500 SF)(.2 FT)(33% VOIDS) = 330 CF
PEA GRAVEL AREA: (500 SF)(.5 FT)(40% VOIDS) = 100 CF

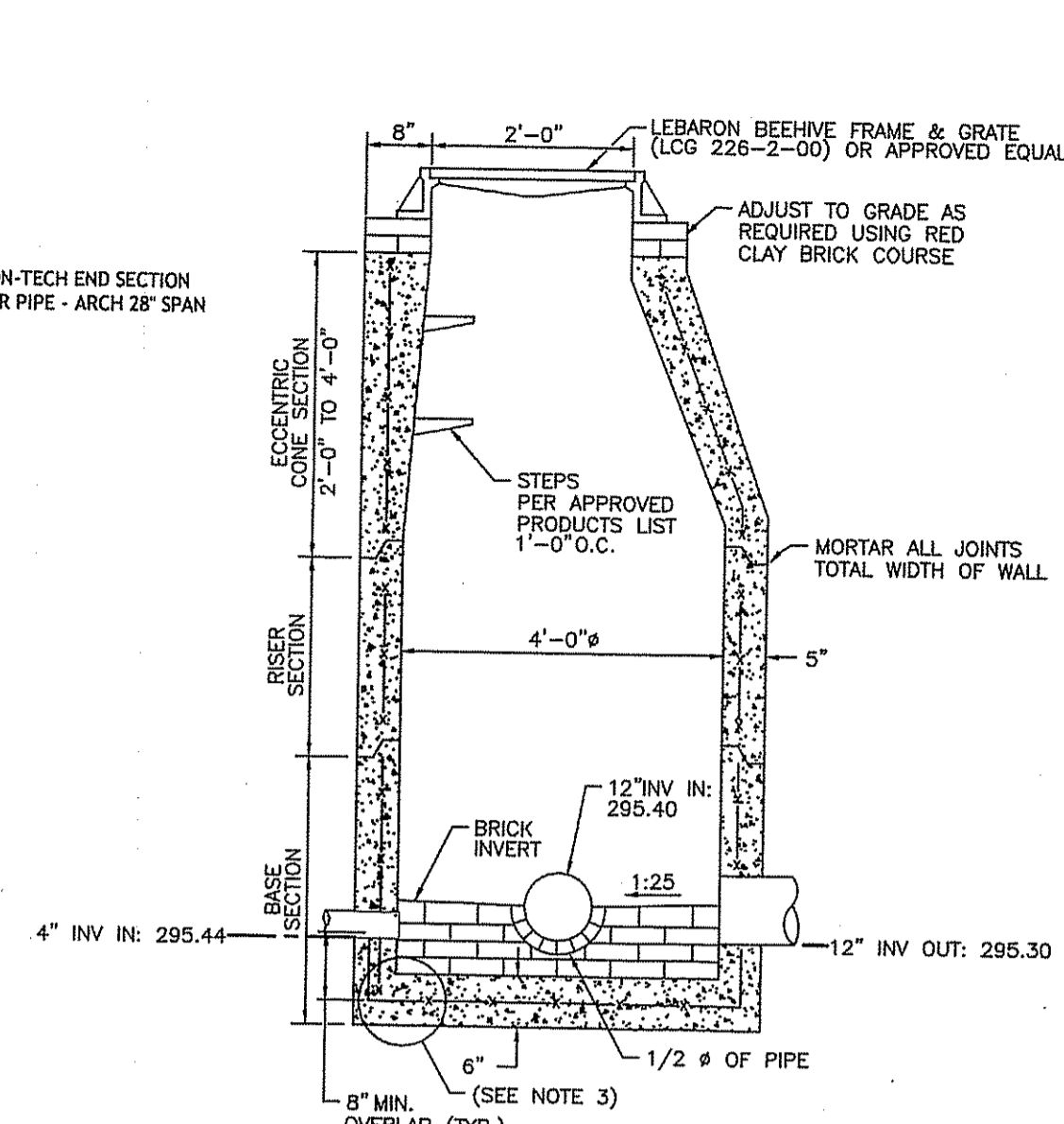
TOTAL STORAGE PROVIDED: 1,388 CF
1,388 CF > 891 CF



RIP RAP SPILLWAY
NOT TO SCALE

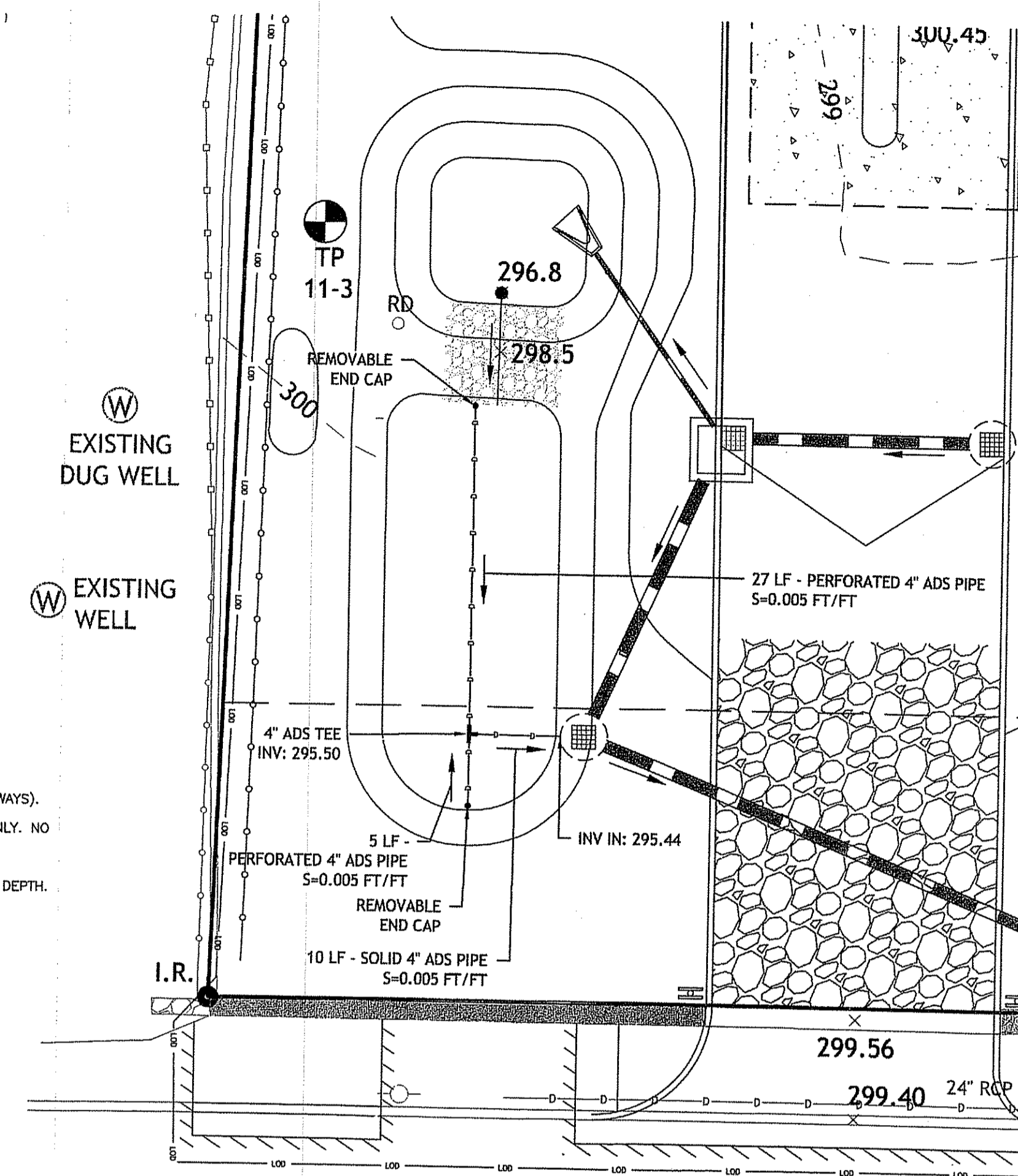


BIORETENTION/SEDIMENT FOREBAY AREA
NORTH - SOUTH SECTION
NOT TO SCALE

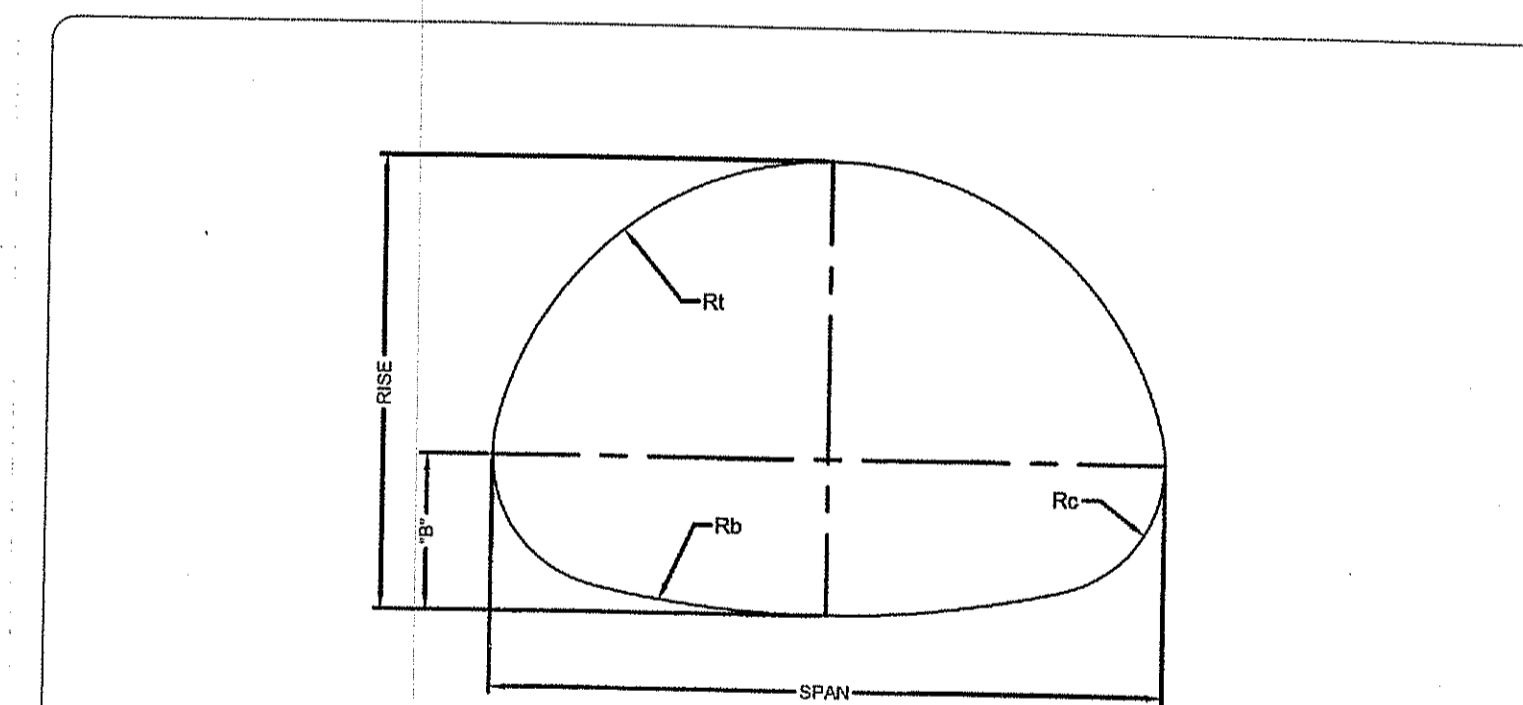


OUTLET CONTROL STRUCTURE #1

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN. / LIN. FT. MINIMUM.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. ONE FOUR MONOLITHIC BASE SECTION.
5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.



BIORETENTION AREA SUBDRAIN DETAIL
1" = 10'



NOTE:
"Rt" DIMENSION IS MEASURED FROM THE SPRINGLINE (THE WIDEST PORTION OF THE PIPE-ARCH) TO THE LOWEST PORTION OF THE INVERT.

| EQUIVALENT DIAMETER (IN) | SPAN (IN) | RISE (IN) | WATERWAY AREA SQ.FT. | LAYOUT DIMENSIONS | | | |
|--------------------------|-----------|-----------|----------------------|-------------------|--------|--------|---------|
| | | | | B | Rc | Rt | Rb |
| 15 | 17 | 13 | 1.1 | 4 1/8 | 3 1/2 | 8 5/8 | 25 5/8 |
| 18 | 21 | 15 | 1.8 | 4 7/8 | 4 1/8 | 10 3/4 | 33 1/8 |
| 21 | 24 | 18 | 2.2 | 5 5/8 | 4 7/8 | 11 7/8 | 34 5/8 |
| 24 | 28 | 20 | 2.8 | 6 1/2 | 5 1/2 | 14 | 42 1/4 |
| 30 | 35 | 24 | 4.5 | 8 1/8 | 6 7/8 | 17 7/8 | 55 1/8 |
| 36 | 42 | 28 | 6.5 | 9 3/4 | 8 1/4 | 21 1/2 | 66 1/8 |
| 42 | 49 | 33 | 8.9 | 11 3/8 | 9 5/8 | 25 1/8 | 77 1/4 |
| 48 | 57 | 38 | 11.8 | 13 | 11 | 28 5/8 | 88 1/4 |
| 54 | 64 | 43 | 14.7 | 14 5/8 | 12 3/8 | 32 1/4 | 99 1/4 |
| 60 | 71 | 47 | 18.1 | 16 1/4 | 13 3/4 | 35 3/4 | 110 1/4 |
| 66 | 77 | 52 | 21.9 | 17 7/8 | 15 1/8 | 39 3/8 | 121 1/4 |
| 72 | 83 | 57 | 26.0 | 19 1/2 | 16 1/2 | 43 | 132 1/4 |

DIMENSIONS SHOWN ARE NOT FOR SPECIFICATION PURPOSES AND ARE SUBJECT TO MANUFACTURING TOLERANCES.



CONTECH ID# ---
CORRUGATED METAL PIPE
PIPE-ARCH LAYOUT
2 2/3" X 1/2" CORRUGATION

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV - 4 2011 FILE # 11-0880
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

JCE
JOE CASALI ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
DESIGN - WATER RESOURCES - TRAFFIC - FLOODPLAIN
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135 DANIELSON PIKE
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AP 16 LOT 19

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| NO. | DATE | DESCRIPTION |
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| 1 | 7/11/11 | RIDOT COMMENTS |
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DESIGNED BY: GBC
DRAWN BY: WMLJR
CHECKED BY: JAC
DATE: MARCH 2011
PROJECT NO: 11-03

PRELIMINARY NOT FOR CONSTRUCTION

DETAILS III