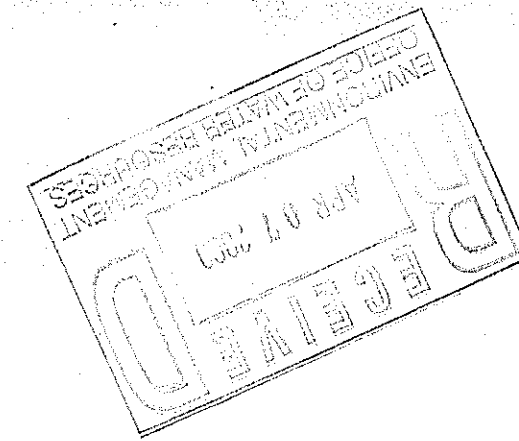


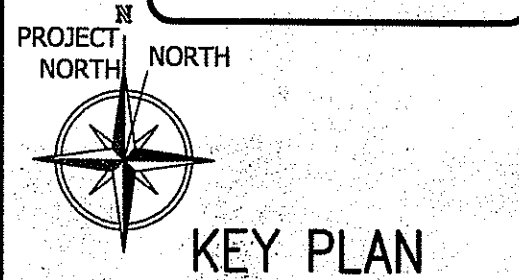
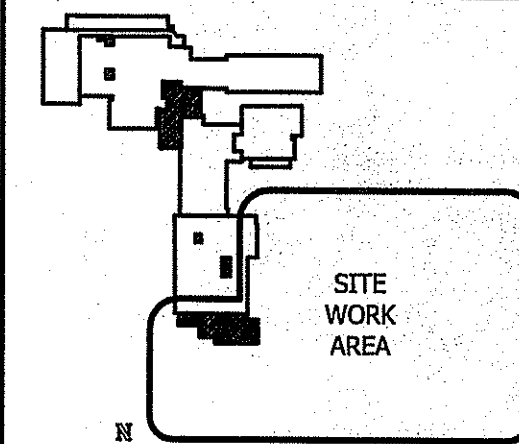
ADDITION & RENOVATIONS TO: SCITUATE MIDDLE SCHOOL AND HIGH SCHOOL

94 TRIMTOWN ROAD
 NORTH SCITUATE, RHODE ISLAND
 AP 33, LOT 14

ZONING DISTRICT: RR-180



35 GREENWICH ST.
 PROVIDENCE, RI 02907
 401.781.0633 P
 401.781.0661 F



KEY PLAN

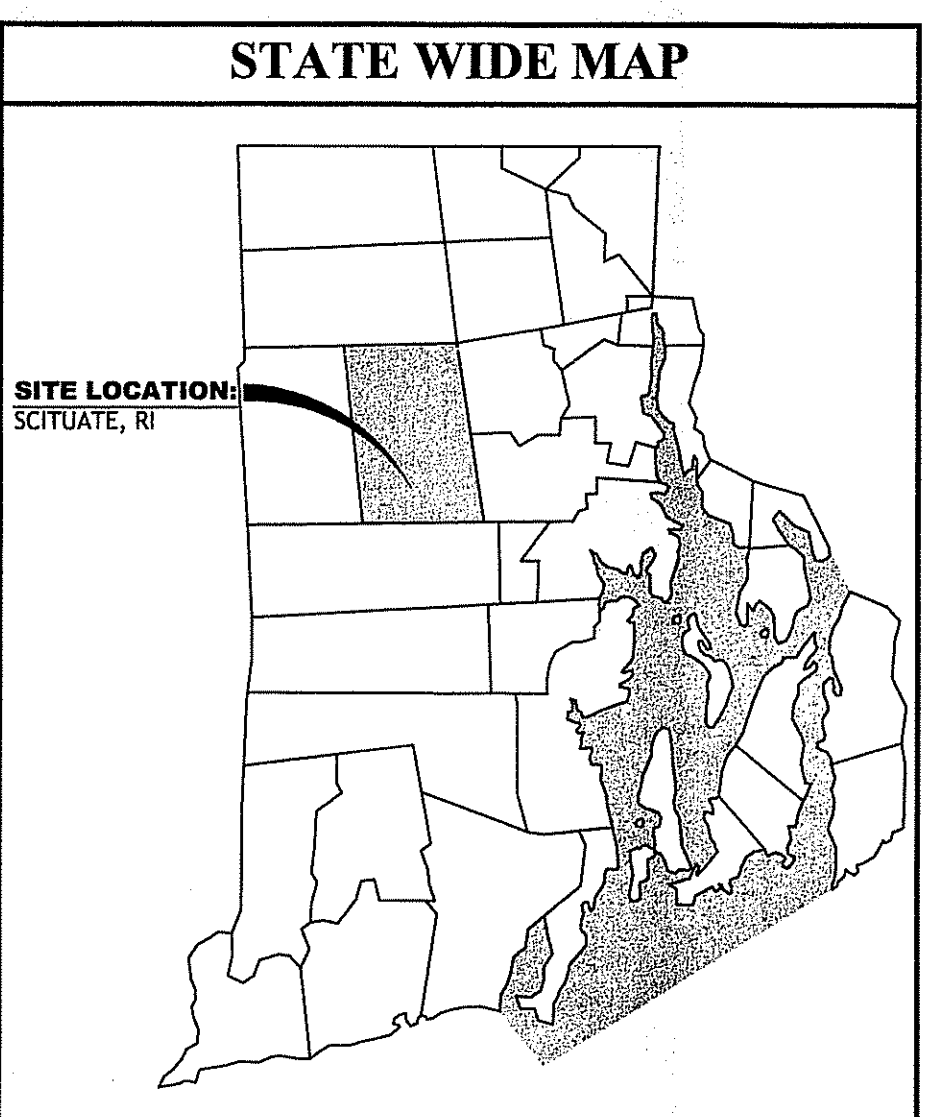
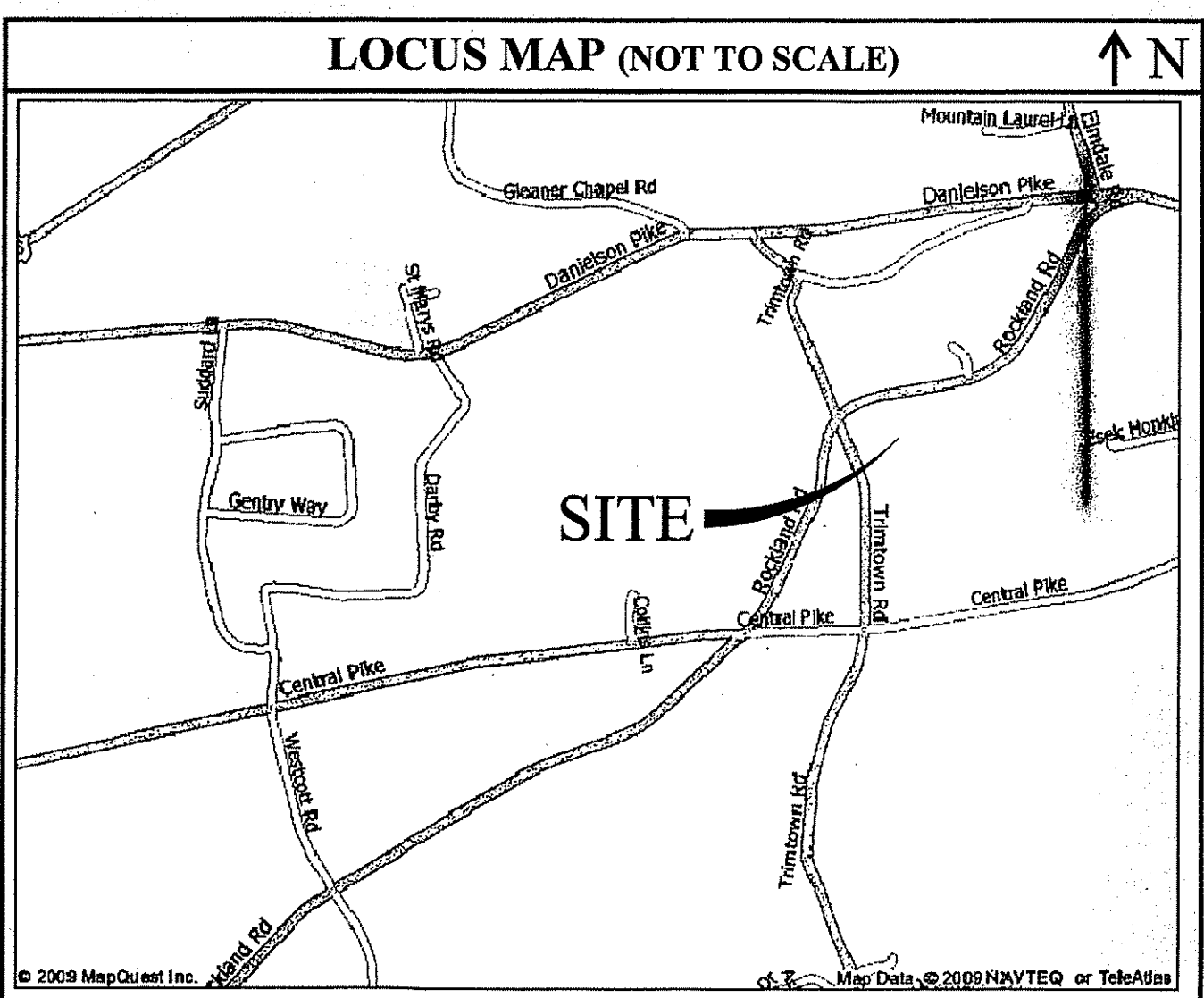
ADDITION AND RENOVATIONS TO:

SCITUATE MIDDLE SCHOOL/ HIGH SCHOOL

94 TRIMTOWN ROAD
 NORTH SCITUATE, RI 02857

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

PROJECT TEAM	
OWNER/APPLICANT:	SCITUATE SCHOOL DEPARTMENT 197 DOUGLAS PIKE, P.O. BOX 188 NORTH SCITUATE, RI 02857 PHONE: (401) 647-4100
ARCHITECT:	LA TORRADO ARCHITECTS 35 GREENWICH STREET PROVIDENCE, RI 02907 PHONE: (401) 781-0633 FAX: (401) 781-0661
CIVIL ENGINEER:	CASALI & D'AMICO ENGINEERING, INC. 300 POST ROAD WARWICK, RI 02888 PHONE: 401-944-1300 FAX: 401-944-1313



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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 MAY 12 2009 FILE # 09-0076
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Herbert

COVER SHEET

4.6.09	1	RIDEM PLAN RESIZE
DATE:	REV. #	DESCRIPTION

RIDEM PERMIT SET	
DATE:	MARCH 2009
DRWN:	WMLJR/JEA
SCALE:	AS NOTED
CHECKED BY:	D.M.D

C.0

SEQUENCE & STAGING OF PROPOSED CONSTRUCTION ACTIVITIES:

1. SURVEY AND STAKE THE PROPOSED ADDITION & GARAGE CORNERS, RECREATIONAL PRACTICE FIELD AREA, DETENTION BASIN, STRUCTURES, AND LIMIT OF DISTURBANCE.
2. PLACE SEDIMENTATION BARRIERS (HAY BALES OR SILT FENCE) AS SHOWN ON THE PLANS AND AS STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.
3. EXCAVATE, INSTALL AND BACKFILL PROPOSED DETENTION BASIN AS SHOWN ON PLAN.
4. BEGIN SITE WORK (CLEARING AND GRUBBING, EXCAVATING AND GRADING, ETC.). TOPSOIL IS TO BE STRIPPED AND STOCKPILED WITHIN DISTURBANCE LIMITS. THE STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS. STOCKPILES TO BE COVERED OR TEMPORARILY SEEDED. DIVERT ALL THE RUNOFF FROM DISTURBED AREAS TO THE PROPOSED STORMWATER STORAGE AREA.
5. INSTALL UTILITIES AND DRAINAGE INCLUDING DRAINAGE PIPE. IMMEDIATELY PLACE THE RIP-RAP AT THE DISCHARGE POINTS. SEED ALL DISTURBED AREAS.
6. BEGIN BUILDING AND FIELD CONSTRUCTION.
7. BEGIN PAVEMENT AND PROPOSED GRADING. LANDSCAPE WHILE BUILDING IS UNDER CONSTRUCTION.
8. FINISH BUILDING, FIELD AND PAVEMENT CONSTRUCTION.
9. FINISH LANDSCAPING AND PERMANENT STABILIZATION.
10. INSPECT AND REPAIR ALL DRAINAGE STRUCTURES INCLUDING DETENTION BASIN AND DISCHARGE POINTS. REMOVE ANY DEBRIS (LEAVES, TREE LIMBS, BOULDERS, ETC.) FROM DRAINAGE INLETS AND OUTLETS. FLUSH ALL SEDIMENTS FROM DRAINAGE PIPES AND APPLY TOPSOIL TO PONDS.
11. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ONCE VEGETATION HAS BEEN ESTABLISHED TO ALL DISTURBED AREAS.

SITE NOTE(S):

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
2. STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
3. ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
4. 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.
5. 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.
6. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ACTUAL SIZE OF THE PROPOSED BUILDING.
7. WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE TOWN/OWNER AT NO ADDITIONAL COST TO THE OWNER.
8. 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.
9. 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.
10. THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMBS, UNLESS OTHERWISE DIRECTED.
11. ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED.
12. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AT COMPLETION OF EACH DAY'S WORK.
13. WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
14. ALL LEGGE TO BE REMOVED BY MECHANICAL MEANS.
15. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET PONTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
16. 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, THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA) AND THE TOWN OF SCITUATE SOIL EROSION AND SEDIMENTATION & LAND DEVELOPMENT AND SUBDIVISION REGULATIONS.
17. ALL IMPORTED FILL MATERIAL SHALL BE CLEAN FILL, FREE OF DEBRIS AND ORGANIC MATTER. MATERIAL SHALL BE SUBJECT TO TESTING IF SO DIRECTED BY THE TOWN ENGINEERING DEPARTMENT.
18. SITE TOPOGRAPHY BASED ON NGVD 1929 DATUM AS INDICATED ON REFERENCED BASE PLAN.

LAYOUT NOTE(S):

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (P.L.S.) 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.

ALL DIMENSIONS, NOTES, SPECIFICATIONS, COMMENTS, AND FIELD NOTES, AND ALL INFORMATION CONTAINED HEREON SHALL BE THE PROPERTY OF CDE ENGINEERING, INC. AND SHALL REMAIN THE PROPERTY OF CDE ENGINEERING, INC. UNLESS OTHERWISE SPECIFIED. ANY REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF CDE ENGINEERING, INC. IS STRICTLY PROHIBITED. ALL RIGHTS ARE RESERVED.

DRAINAGE SYSTEM MAINTENANCE SCHEDULE:

1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
 - INSPECTION, REPAIR AND/OR REPLACEMENT OF CATCH BASIN INLET PROTECTION.
 - REMOVAL OF SEDIMENT FROM DRAINAGE STRUCTURES AND PIPES DURING AND FOLLOWING THE END OF CONSTRUCTION.
2. MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS TO ALL PIPES, INTAKE AND DISCHARGE STRUCTURES (INCLUDING RIP-RAP SPLASH PADS), DETENTION PONDS, SWALES, CATCH BASIN SUMPS, AND MANHOLES.
3. INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES (INCLUDING ROADWAY SIDE SLOPES, 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 BIMONTHLY IF NO RAINFALL.
4. 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 (EXCLUDING STAKED HAYBALES) MUST BE REMOVED.
5. REPLANTING, REGRADING, 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.
6. WHEN ALL CONSTRUCTION IS COMPLETED, 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 AND THE OWNER, THE PARTY RESPONSIBLE FOR LONG TERM MAINTENANCE, INSPECTION AND REPAIRS TO ALL DRAINAGE FACILITIES SHOWN ON THESE PLANS, SHALL BE THE OWNER OF THE LOT OR LOTS ON WHICH THE DRAINAGE FACILITIES ARE LOCATED INCLUDING THE UIC, DETENTION BASIN, SWALES, PIPES AND CATCHBASINS.
7. ANY TRASH, DEBRIS, ETC. SHOULD BE REMOVED FROM THE DETENTION BASIN, SUBSURFACE STORMWATER MANAGEMENT AREA, SWALE(S), INLETS, AND PIPE OUTLETS.
8. SWALES SHALL BE MOWED AT LEAST ONCE DURING THE GROWING SEASON TO PREVENT UNWANTED WOODY GROWTH.
9. 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 RESEEDED IMMEDIATELY FOLLOWING OBSERVATION. ALL LITTER AND TRASH SHALL BE REMOVED DURING INSPECTIONS.
10. CATCH BASINS, MANHOLES AND DRAIN LINES: AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONNEL TO ENSURE PROPER OPERATION. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:
 - DAMAGE TO GRATE AND COVER
 - EVIDENCE OF STANDING WATER
 - DEBRIS REMOVAL
 - STRUCTURAL ALIGNMENT/ INTEGRITY
 ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED.
12. THE GRASSED AREAS SHALL BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION PROBLEMS. PROBLEM AREAS SHALL BE RE-SEEDED IMMEDIATELY TO STABILIZE EXPOSED SOIL, THEREBY PREVENTING EROSION AND POTENTIAL CLOGGING OF OUTFLOW DEVICES.
13. 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.
14. SEDIMENT REMOVED FROM THE BASIN(S) SHALL BE TESTED FOR HEAVY METALS AND OTHER CONTAMINANTS FOLLOWING OPERATION. IF IT IS FOUND THAT SEDIMENTS ARE CONTAMINATED THEY SHALL BE TRANSPORTED TO A STATE APPROVED DISPOSAL SITE.

EROSION CONTROL & SOIL STABILIZATION PROGRAM:

1. DENUDE SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
2. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
3. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING CONSERVATION MIX:

MIXTURE	% BY WGT.	SEEDING DATES
RED FESCUE	75	APRIL 1 - JUNE 15
COLONIAL BENTGRASS	5	AUG. 15 - OCT. 15
PERENNIAL RYEGRASS	5	
BIRDSFOOT TREFOL	15	
TOTAL 100% PER ACRE		
4. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR A FIBER LINING (LITTER, SPLAT, EXCESSOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED.
5. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000 - 4,000 LBS. PER ACRE.
6. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED IMMEDIATELY AFTER FINAL GRADING.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTE(S):

1. 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 (M.U.T.C.D.).
2. 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.
3. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED IN THE TOWN SCITUATE RIGHT-OF-WAY.
4. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNING DEVICES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 2003 EDITION WITH LATEST AGENDA.
5. SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STATE AND LOCAL PERMITS PRIOR TO START OF CONSTRUCTION. THESE PERMITS SHALL INCLUDE BUT ARE NOT LIMITED TO, ROAD OPENING, SOIL EROSION, BUILDING, WATER CONNECTION AND SEWER CONNECTION PERMITS). CONTRACTOR SHALL REFER TO TOWN ENGINEERING AND BUILDING DEPARTMENT FOR ALL APPLICABLE PERMITS.

PAVEMENT STRUCTURE (PARKING AREA)

1 1/2"	BITUMINOUS TOP COURSE CLASS I-1
1 1/2"	BITUMINOUS SURFACE BASE COURSE
4"	BANK RUN GRAVEL BASE
8"	BANK RUN GRAVEL SUBBASE

ADS Pipe Installation Notes:

1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A STABLE DEPTH AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION; AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
2. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4" TO 24" DIA. & 6" FOR 30" TO 60" DIA.
3. HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:

NOMINAL DIA. (IN)	MINIMUM TRENCH WIDTH (IN)
6"	23"
8"	25"
10"	28"
12"	31"
15"	34"
18"	39"
5. MINIMUM COVER: RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.

SURFACE LIVE LOADING CONDITION	MINIMUM RECOMMENDED COVER (IN)
H25 (FLEXIBLE PAVEMENT)	12"
H25 (RIGID PAVEMENT)	12"
HEAVY CONSTRUCTION	48"

BMP MAINTENANCE SCHEDULE:

1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
 - A. MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS ALL PIPES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
 - B. 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.
2. 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.
3. 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 THE OWNER OR HIS/HER APPROVED AGENTS.
4. 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 AS FOLLOWS:
 - A. ANY REQUIRED REPAIR AND REPLACEMENT OF DRAINAGE STRUCTURES OR FACILITIES SHALL BE DONE PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE SYSTEM.
 - B. CATCH BASINS, MANHOLES, AND THE DETENTION BASIN SHALL BE INSPECTED AT LEAST ONCE PER YEAR AND ANY SEDIMENT OR DEBRIS WITHIN THE SUMPS SHALL BE REMOVED. SEDIMENTS SHALL BE REMOVED FROM THE DETENTION BASIN DURING THE FIRST YEAR OF OPERATION AND EVERY 5-YEARS THEREAFTER. MORE FREQUENT REMOVALS MAY BE NECESSARY IF THE SEDIMENT STORAGE CAPACITY OF THE FOREBAY OR POND IS EXCEEDED OR WHEN THE SEDIMENT DEPTHS REACH 6 INCHES, WHICHEVER COMES FIRST.
 - C. ALL DESIGN, CLEANING, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL FOLLOW AT LEAST THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION MINIMUM STANDARDS, SECTION 708.03. WHERE APPROPRIATE, PROCEDURES REGARDING THE DRAINAGE DESIGN, AND THE INSPECTION AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL BE FOLLOWED AS OUTLINED IN THE "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL" (RIDEM/RICRMC, JUNE 30, 2004).
 - D. ANY TRASH, DEBRIS, ETC SHALL BE REMOVED IMMEDIATELY FROM WETLAND AREAS, DETENTION BASINS, SWALES AND PIPE OUTLETS.
 - E. DETENTION BASINS AND SWALES SHALL BE MOWED AT LEAST ONCE DURING THE GROWING SEASON TO PREVENT UNWANTED WOODY GROWTH.
 - F. SWALES AND DETENTION AREAS; SHALL BE INSPECTED AFTER MAJOR STORM EVENTS OR AN ANNUAL BASIS. REPAIRS SHALL BE PERFORMED IMMEDIATELY AS CONDITIONS WARRANT. BARE SPOTS AND ERODED ARE AS SHALL BE RESEEDED IMMEDIATELY FOLLOWING OBSERVATION. ALL LITTER AND TRASH SHALL BE REMOVED DURING INSPECTIONS.
 - G. CATCH BASINS, MANHOLES AND DRAIN LINES: AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONNEL TO ENSURE PROPER OPERATION. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:
 - DAMAGE TO GRATES AND/OR COVER
 - EVIDENCE OF STANDING WATER
 - DEBRIS REMOVAL
 - STRUCTURAL ALIGNMENT/ INTEGRITY
 ANY DEFICIENCY NOTED DURING THE INSPECTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED.
 - H. 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.
 - I. SEDIMENT SHALL BE REMOVED FROM THE DETENTION BASIN SEDIMENT FOREBAY ON A MINIMUM OF EVERY 5 YEARS AND EVERY YEAR FOR EACH CATCH BASIN SUMP. IF SEDIMENT ACCUMULATION IS ADVERSELY IMPACTING THE FUNCTION OF THE BMP, PROPER REMOVAL AND DISPOSAL SHALL BE PERFORMED IMMEDIATELY.

DRAINAGE SYSTEM NOTES:

1. ALL RIM ELEVATIONS SHOWN ARE APPROXIMATE AND ARE TO BE SET FLUSH WITH FINAL GRADES.
2. 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.
3. THE PROPOSED DRAINAGE LINES SHALL BE ADS N-12 (HDPE) OR AN APPROVED EQUAL AS INDICATED ON THESE PLANS.
4. ALL DRAINAGE CATCH BASINS SHALL HAVE AN OIL/WATER SEPARATOR.
5. ALL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH H-20 LOADING CHARACTERISTICS.

REQUIRED EXTENDED DETENTION SETBACKS:

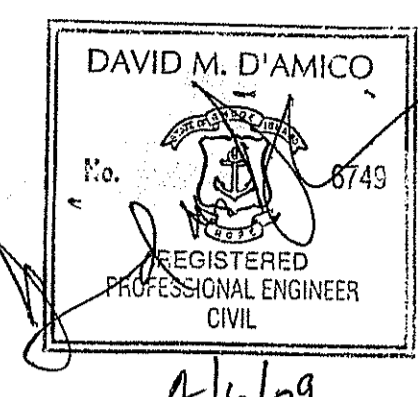
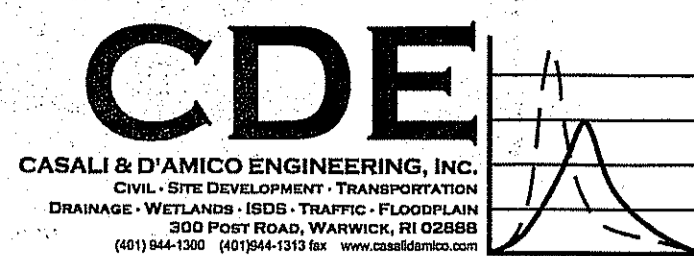
1. THE PROPOSED DETENTION SYSTEM MEETS THE 1' MINIMUM SEPARATION DISTANCE BETWEEN THE DESIGN BOTTOM OF THE STRUCTURE AND THE SEASONAL HIGH WATER TABLE.
2. THE PROPOSED EXTENDED DETENTION SYSTEM MEETS THE MINIMUM 3:1 LENGTH TO WIDTH RATIO.
3. A 6" LAYER OF ORGANIC SOIL SHALL BE INCORPORATED INTO THE BASIN BOTTOM.
4. THE MAXIMUM SIDE SLOPE SHALL NOT EXCEED 3:1.
5. A 8-FT BERM SHALL ENCOMPASS THE DETENTION BASIN.
6. THE LOW-FLOW OUTLET STRUCTURE SHALL BE PLACED AT THE BASIN BOTTOM AND CONSTRUCTED TO ALLOW STORMWATER INFLOW DURING MAXIMUM SEDIMENT ACCUMULATION PERIOD (ELEVATION 452.68).
7. RIPRAP APRONS SHALL BE PROVIDED AT ALL OUTLET/FLARED END SECTIONS (FES).
8. THE PROPOSED DETENTION BASIN IS NOT WITHIN 25 FEET OF ANY PROPERTY LINE.
9. THE PROPOSED DETENTION BASIN IS NOT WITHIN 50 FEET OF ANY ONSITE WASTEWATER TREATMENT SYSTEM COMPONENT.

SOIL EROSION AND SEDIMENTATION CONTROL NOTE(S):

1. THE LIMIT OF DISTURBANCE (LOD) LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT.
2. 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.
3. 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 OUTLET PROTECTION (R.I. STD. 9.1.0), OR STAKED HAYBALE WITH 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.
4. 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.
5. ALL HAYBALES, TEMPORARY TREATMENT (HAY, STRAW, ETC.) SILT FENCE 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.
6. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR DRAINAGE STRUCTURES. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED.
7. THE HAYBALES OR SILT FENCE 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 OR SILT FENCE AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY-BALES BECOMES FILLED WITH SEDIMENTS.
8. 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. 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.
9. 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.

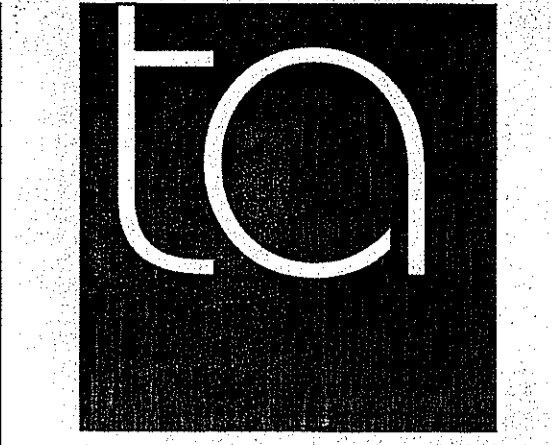
GENERAL CONTRACTOR NOTES & REQUIREMENTS:

1. THE CONTRACTOR IS TO NOTIFY DIG SAFE PRIOR TO CONSTRUCTION.
2. A PRE-CONSTRUCTION MEETING IS REQUIRED. THE TOWN ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS (IF APPLICABLE) PRIOR TO THE START OF CONSTRUCTION.
4. ALL WORK PERFORMED HERIN SHALL BE GOVERNED BY THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND THE TOWN OF SCITUATE STANDARD SPECIFICATIONS AND DETAILS.
5. ALL DRAINAGE PIPE TO BE ADS N-12 UNLESS, OTHERWISE SPECIFIED ON PLANS.
6. ALL CATCH BASINS AND MANHOLES TO BE 4FT DIAMETER UNLESS SPECIFIED OTHERWISE.
7. COMPACT, LOAM & SEED ALL DISTURBED AREAS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED BY THE SITE OR TOWN ENGINEER.
8. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE. DEVIATIONS OR CHANGES WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
9. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
10. METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE TOWN OF SCITUATE AND THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
11. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION AND VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIALS SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
12. CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION OR BLASTING AT LEAST TWO WORKING DAYS, BUT NOT MORE THEN TEN WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. ALL WATER, GAS, SEWER AND OTHER UTILITIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
13. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTORS CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGED MADE TO UTILITIES BY THE CONTRACTOR.

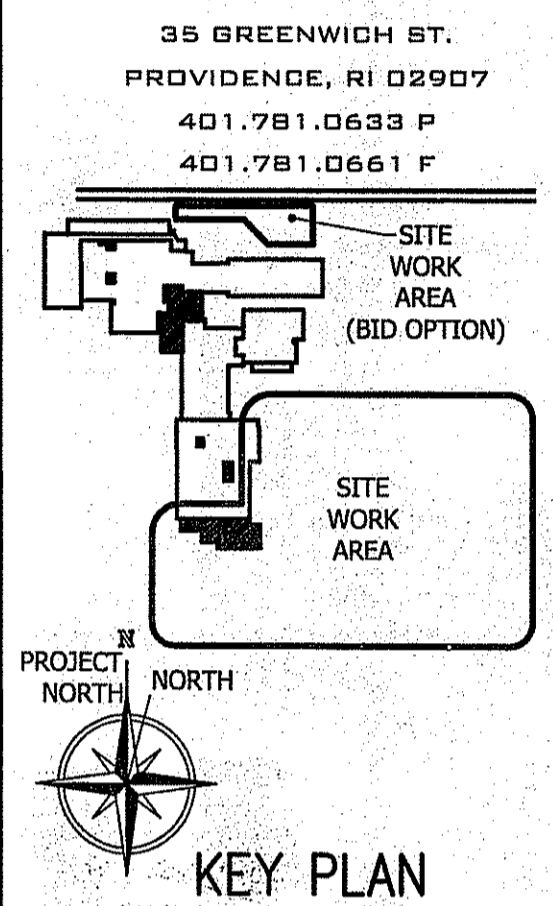


LEGEND

- EXISTING PROPERTY LINE
- BUILDING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXISTING CONTOUR
- EXISTING STONEWALL
- EXISTING LIMIT OF WOODLAND (APPROXIMATE)
- EXISTING PAVEMENT
- WETLAND EDGE
- WETLAND FLAG
- 50' PERIMETER WETLAND
- N/F NOW OR FORMERLY
- OHW EXISTING OVERHEAD WIRES
- W EXISTING WATER LINE
- S EXISTING SEWER LINE
- DRILL HOLE
- IRON PIN
- CONCRETE BOUND
- UTILITY POLE
- EXISTING SEWER MANHOLE/STRUCTURE
- EXISTING WATER GATE VALVE
- EXISTING HYDRANT
- EXISTING WATER SHUTOFF VALVE
- UTILITY POLE
- PROPOSED CONTOUR
- PROPOSED PAVEMENT
- PROPOSED PAVEMENT & BITUMINOUS BERM
- PROPOSED CATCH BASIN
- PROPOSED DOUBLE CATCH BASIN
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED DRAIN LINE
- PROPOSED SAW CUT AND MATCH LINE
- PROPOSED EROSION CONTROL(S)
- LIMIT OF DISTURBANCE
- TEST HOLE LOCATION AND ID



35 GREENWICH ST. PROVIDENCE, RI 02907
401.781.0633 P
401.781.0661 F



ADDITION AND RENOVATIONS TO:

SCITUATE MIDDLE SCHOOL/ HIGH SCHOOL

GENERAL NOTES & LEGEND

DEPARTMENT OF ENVIRONMENT & PLANNING
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS AND
APPROVED WITH CONDITIONS
AS SPECIFIED BY LETTER OF APPROVAL
DATED: MAY 12 2009 FILE # 09-0076
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONTRACTOR'S RISK

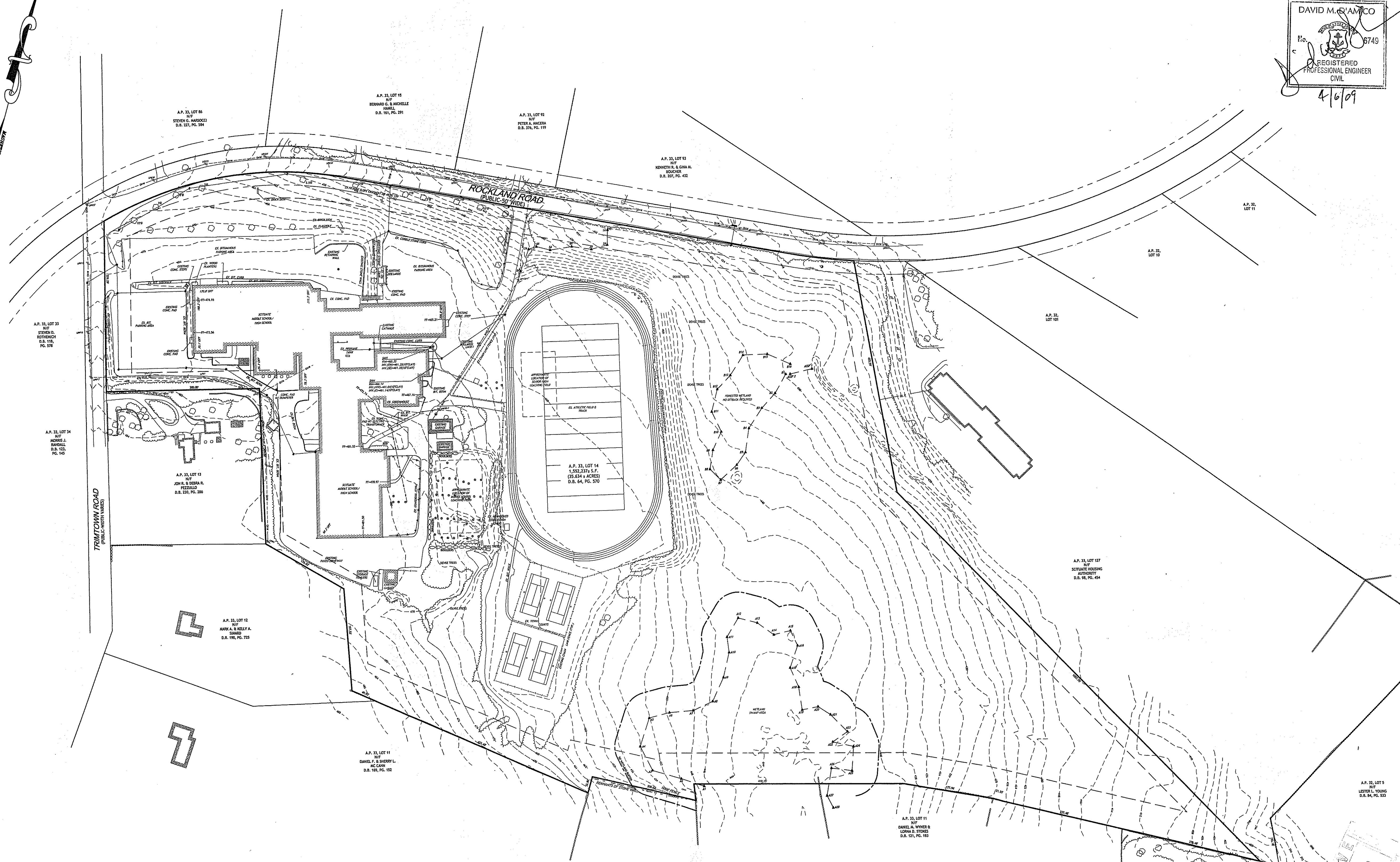
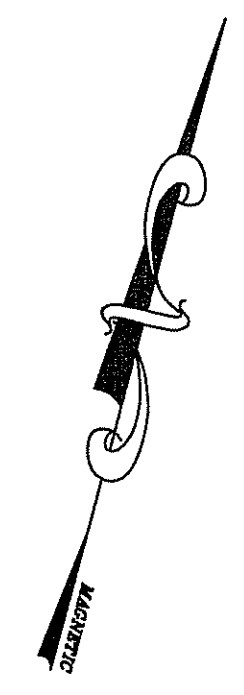
Charles A. Harbert

4.6.09 1 RIDEM PLAN RESIZE
DATE: REV. # DESCRIPTION
REVISIONS:
RIDEM PERMIT SET
DATE: MARCH 2009
DRWN: WMLUR/JEA
SCALE: AS NOTED
CHECKED BY: D.M.D.

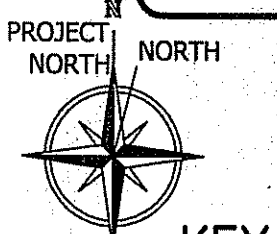
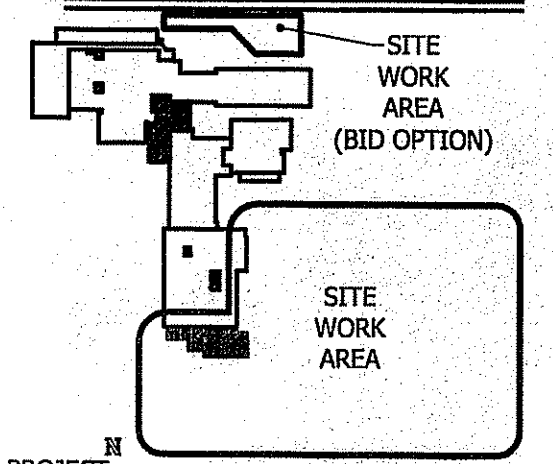
C.1
SHEET 2 OF 10



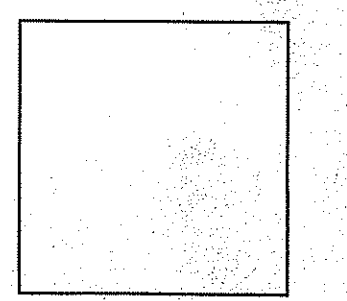
DAVID M. SIAMICO
 No. 6749
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 4/6/09



35 GREENWICH ST.
 PROVIDENCE, RI 02907
 401.781.0633 P
 401.781.0661 F



KEY PLAN



ADDITION AND RENOVATIONS TO:

SCITUATE MIDDLE SCHOOL/ HIGH SCHOOL

94 TRIMTOWN ROAD
 NORTH SCITUATE, RI 02857

OVERALL EXISTING CONDITIONS PLAN

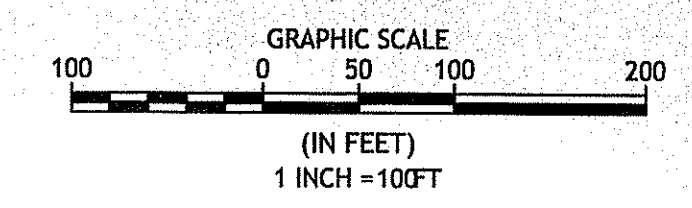
THESE PLANS, SPECIFICATIONS, AND CONDITIONS ARE THE PROPERTY OF CASALI & D'AMICO ENGINEERING, INC. AND ARE TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE OR REPRODUCTION OF THESE PLANS WITHOUT THE WRITTEN PERMISSION OF CASALI & D'AMICO ENGINEERING, INC. IS STRICTLY PROHIBITED. ALL RIGHTS ARE RESERVED.

REFERENCE(S):
 BASE PLAN INFORMATION OBTAINED FROM PLAN ENTITLED: "EXISTING CONDITIONS AND UTILITY PLAN, SCITUATE MIDDLE SCHOOL/HIGH SCHOOL, PREPARED BY CATALDO ASSOCIATES, INC. FOR CLASS I AND CLASS III SURVEY, DATED 01.12.2009".

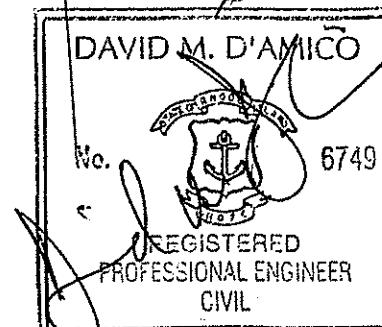
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 12 2009 FILE # 09-0076
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Haber



4.6.09	1	RIDEM PLAN RESIZE
DATE:	REV. #	DESCRIPTION
REVISIONS:		
RIDEM PERMIT SET	DATE:	MARCH 2009
DRWN:	WMLJR/JEA	
SCALE:	AS NOTED	
CHECKED BY:	D.M.D	
C.2		
SHEET 3 OF 10		

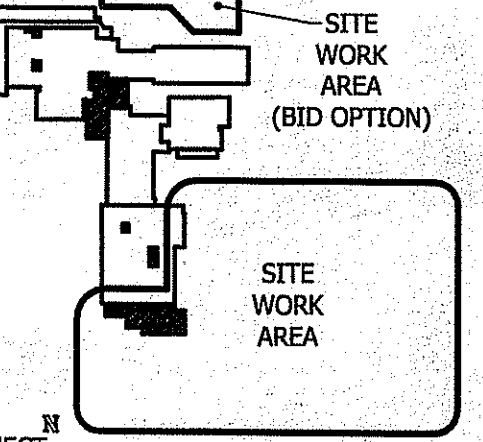


CDE
 CASALI & D'AMICO ENGINEERING, INC.
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION
 DRAINAGE - WETLANDS - TRAFFIC - FLOODPLAIN
 300 FORT ROAD, WARWICK, RI 02886
 (401) 846-1300 (401) 846-1313 FAX
 PRELIMINARY NOT FOR CONSTRUCTION



TORRADO ARCHITECTS

35 GREENWICH ST.
 PROVIDENCE, RI 02907
 401.781.0633 P
 401.781.0661 F



PROJECT NORTH
 NORTH
KEY PLAN

ADDITION AND RENOVATIONS TO:

SCITUATE MIDDLE SCHOOL/ HIGH SCHOOL

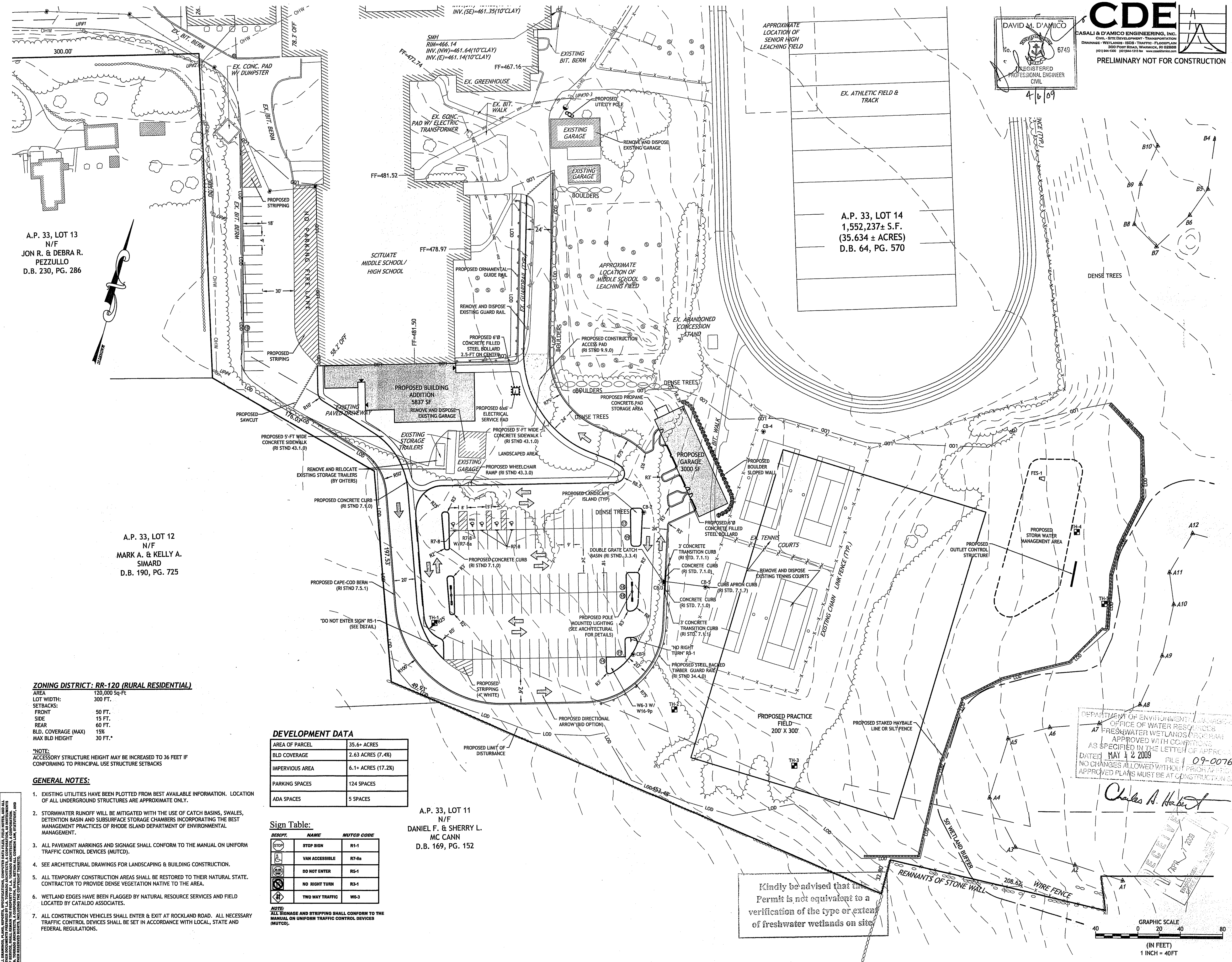
94 TRIMTOWN ROAD
 NORTH SCITUATE, RI 02857

SITE PLAN

4.6.09 1 RIDEM PLAN RESIZE

DATE	REV. #	DESCRIPTION
		REVISIONS:
		RIDEM PERMIT SET
DATE:		MARCH 2009
DRWN:		WMLJR/JEA
SCALE:		AS NOTED
CHECKED BY:		D.M.D.

C.4
 SHEET 5 OF 10



A.P. 33, LOT 13
 N/F
 JON R. & DEBRA R.
 PEZZULLO
 D.B. 230, PG. 286

A.P. 33, LOT 12
 N/F
 MARK A. & KELLY A.
 SIMARD
 D.B. 190, PG. 725

A.P. 33, LOT 11
 N/F
 DANIEL F. & SHERRY L.
 MC CANN
 D.B. 169, PG. 152

ZONING DISTRICT: RR-120 (RURAL RESIDENTIAL)
 AREA 120,000 Sq-Ft.
 LOT WIDTH: 300 FT.
 SETBACKS:
 FRONT 50 FT.
 SIDE 15 FT.
 REAR 60 FT.
 BLD. COVERAGE (MAX) 15%
 MAX BLD HEIGHT 30 FT.*

*NOTE:
 ACCESSORY STRUCTURE HEIGHT MAY BE INCREASED TO 36 FEET IF CONFORMING TO PRINCIPAL USE STRUCTURE SETBACKS

- GENERAL NOTES:**
- EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE INFORMATION. LOCATION OF ALL UNDERGROUND STRUCTURES ARE APPROXIMATE ONLY.
 - STORMWATER RUNOFF WILL BE MITIGATED WITH THE USE OF CATCH BASINS, SWALES, DETENTION BASIN AND SUBSURFACE STORAGE CHAMBERS INCORPORATING THE BEST MANAGEMENT PRACTICES OF RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
 - ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - SEE ARCHITECTURAL DRAWINGS FOR LANDSCAPING & BUILDING CONSTRUCTION.
 - ALL TEMPORARY CONSTRUCTION AREAS SHALL BE RESTORED TO THEIR NATURAL STATE. CONTRACTOR TO PROVIDE DENSE VEGETATION NATIVE TO THE AREA.
 - WETLAND EDGES HAVE BEEN FLAGGED BY NATURAL RESOURCE SERVICES AND FIELD LOCATED BY CATALDO ASSOCIATES.
 - ALL CONSTRUCTION VEHICLES SHALL ENTER & EXIT AT ROCKLAND ROAD. ALL NECESSARY TRAFFIC CONTROL DEVICES SHALL BE SET IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

DEVELOPMENT DATA

AREA OF PARCEL	35.6+ ACRES
BLD COVERAGE	2.63 ACRES (7.4%)
IMPERVIOUS AREA	6.1+ ACRES (17.2%)
PARKING SPACES	124 SPACES
ADA SPACES	5 SPACES

Sign Table:

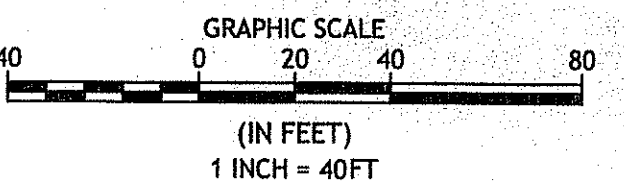
DESCR	NAME	MUTCD CODE
	STOP SIGN	R1-1
	VAN ACCESSIBLE	R7-8a
	DO NOT ENTER	RS-1
	NO RIGHT TURN	RS-3
	TWO WAY TRAFFIC	WB-3

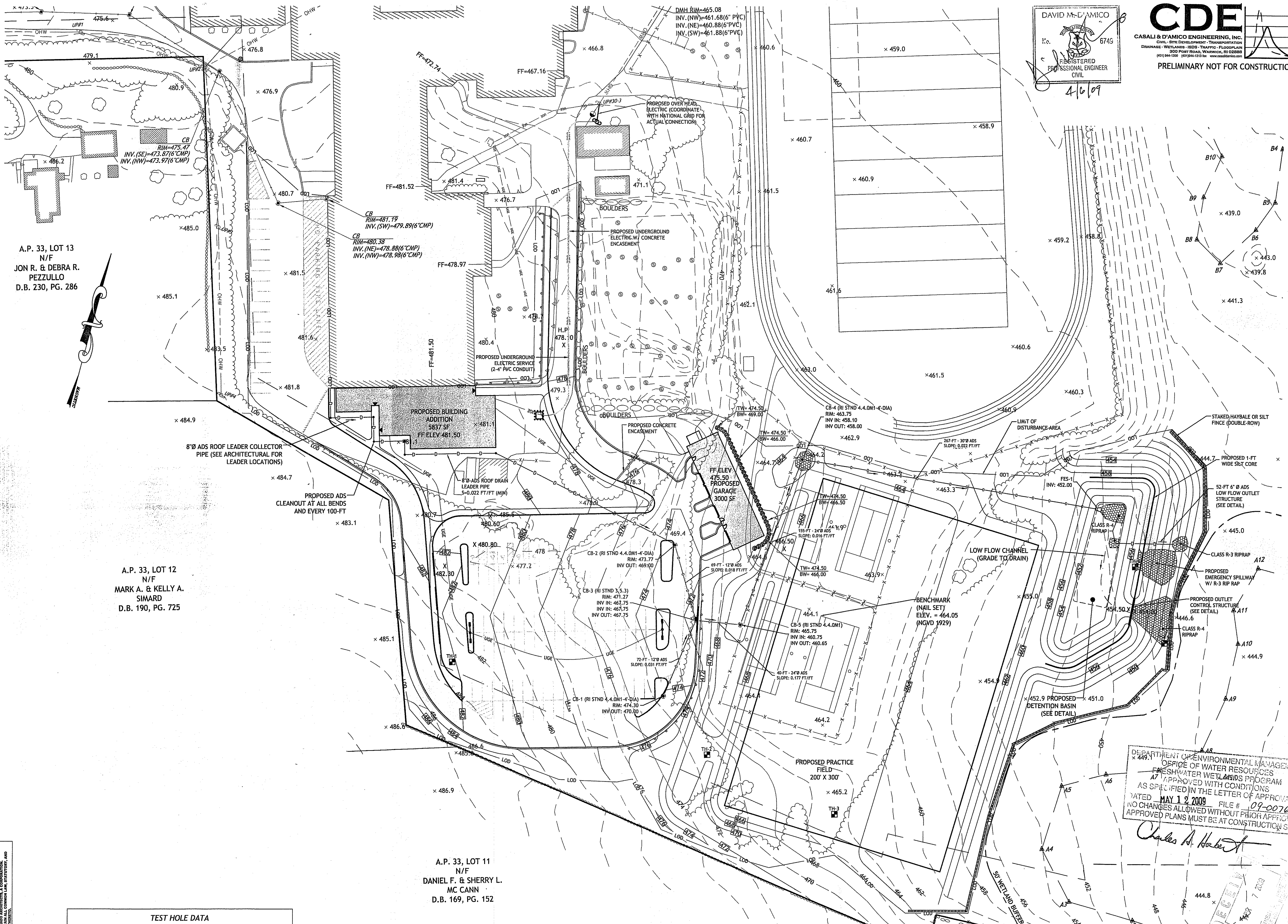
*NOTE:
 ALL SIGNAGE AND STRIPPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

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 MAY 12 2009 FILE # 09-0076
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

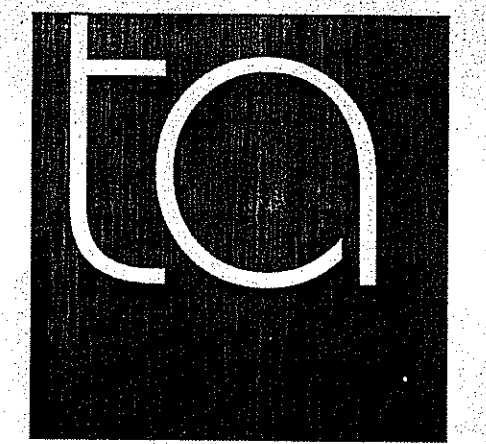
Charles A. Herbert





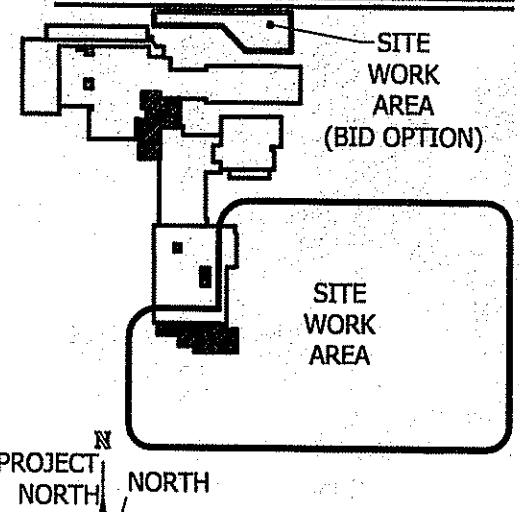
DAVID M. D'AMICO
 No. 6749
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 4/6/09

CDE
 CASALI & D'AMICO ENGINEERING, INC.
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION
 DRAINAGE - WETLANDS - HIGHWAY - TRAFFIC - PLANNING
 300 POPE ROAD, WARWICK, RI 02886
 (401) 861-0100
 PRELIMINARY NOT FOR CONSTRUCTION



TORRADO ARCHITECTS

35 GREENWICH ST.
 PROVIDENCE, RI 02907
 401.781.0633 P
 401.781.0661 F



KEY PLAN

ADDITION AND RENOVATIONS TO:

SCITUATE MIDDLE SCHOOL/ HIGH SCHOOL

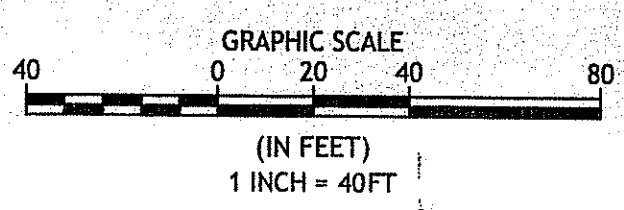
94 TRIMTOWN ROAD
 NORTH SCITUATE, RI 02857

GRADING, DRAINAGE & UTILITY PLAN

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 12 2009 FILE # 09-0076
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Charles A. Harber

REMNANTS OF STONE WALL
 WIRE FENCE
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



4.6.09 1 RIDEM PLAN RESIZE
 DATE: REV. # DESCRIPTION

REVISIONS:
 RIDEM PERMIT SET
 DATE: MARCH 2009
 DRAWN: WMLR/JEA
 SCALE: AS NOTED
 CHECKED BY: D.J.M.

C.5
 SHEET 6 of 10

A.P. 33, LOT 13
 N/F
 JON R. & DEBRA R.
 PEZZULLO
 D.B. 230, PG. 286

A.P. 33, LOT 12
 N/F
 MARK A. & KELLY A.
 SIMARD
 D.B. 190, PG. 725

A.P. 33, LOT 11
 N/F
 DANIEL F. & SHERRY L.
 MC CANN
 D.B. 169, PG. 152

TEST HOLE DATA			
TH ID	GROUND ELEV	ESHWGT ELEV.	LEDGE
1	482.71	481.04	473.71+
2	470.43	467.43	462.43+
3	464.50	462.92	458.75+
4	449.00	448.17	443.58+
5	447.00	446.17	442.00

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A.P. 33, LOT 86
N/F
STEVEN G. MARSOCCI
D.B. 227, PG. 584

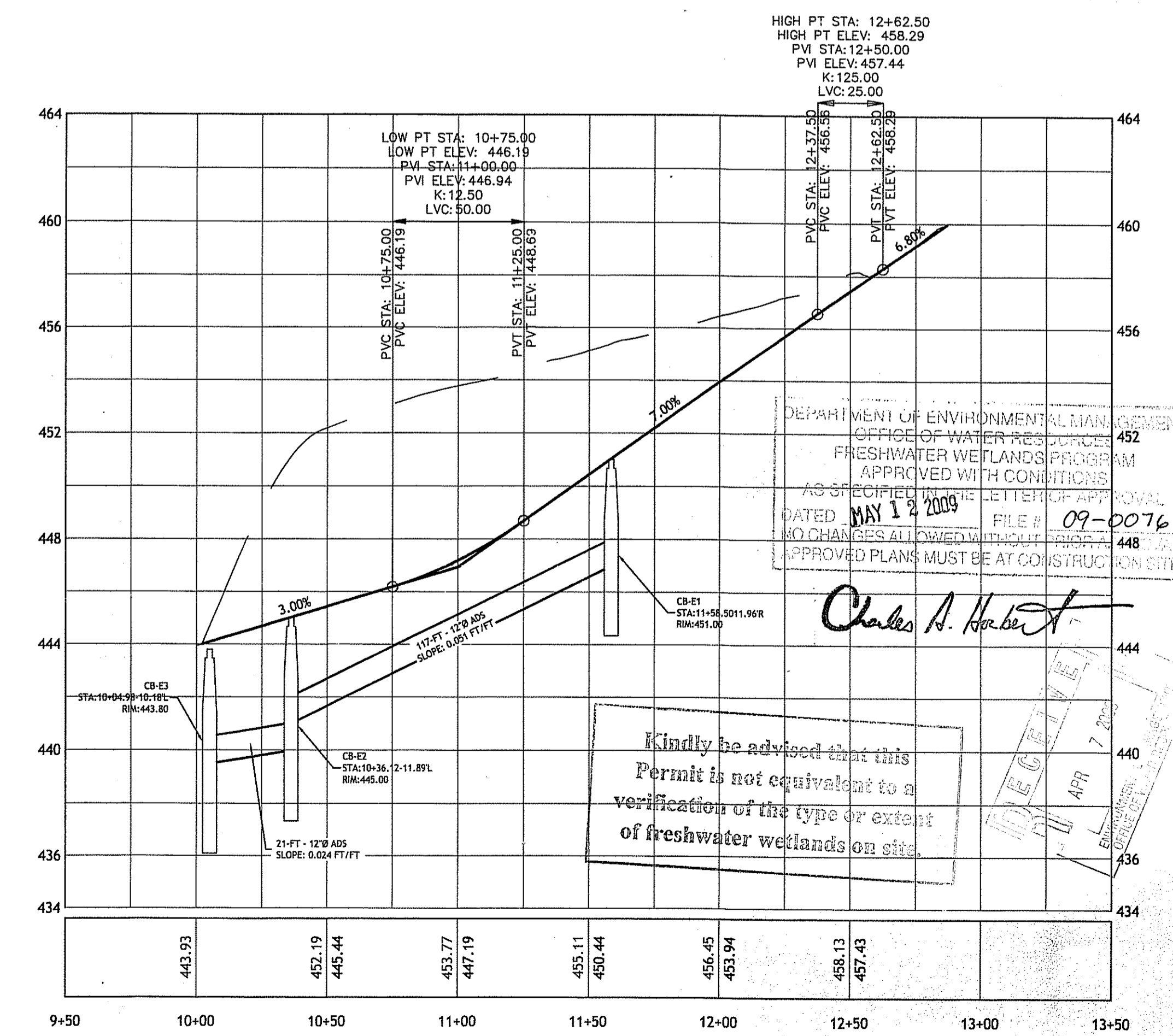
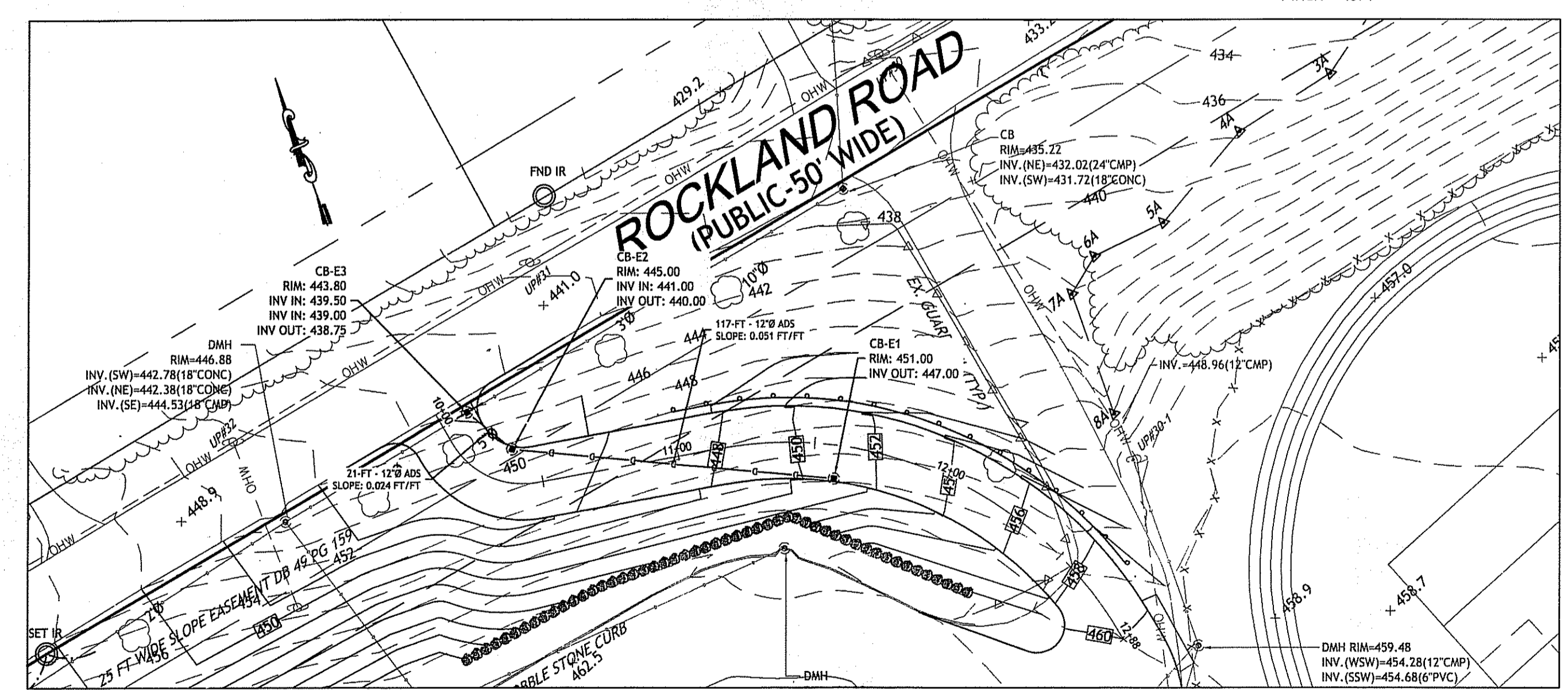
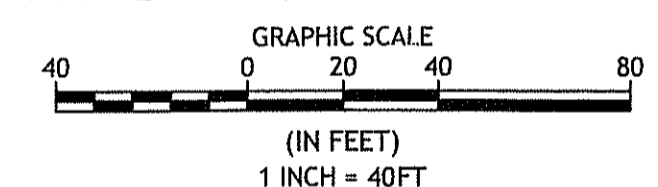
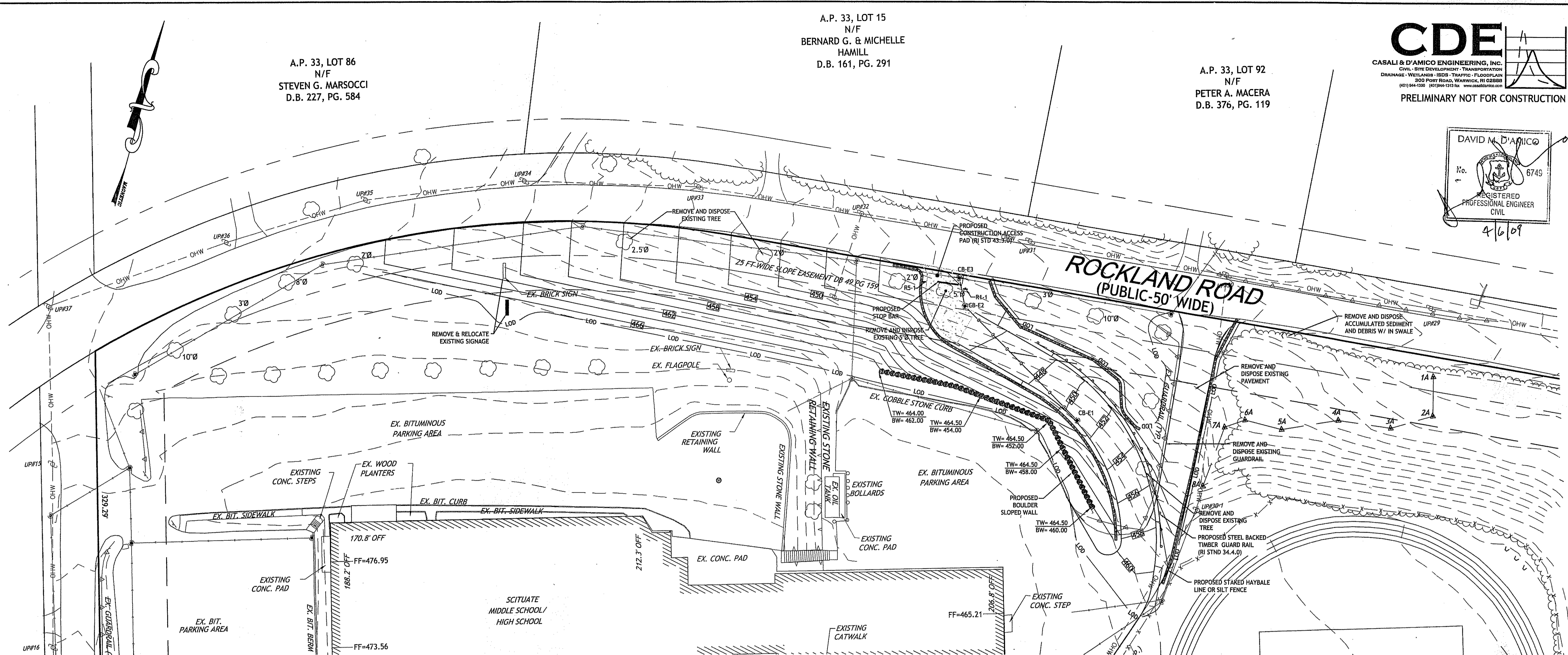
A.P. 33, LOT 15
N/F
BERNARD G. & MICHELLE
HAMILL
D.B. 161, PG. 291

A.P. 33, LOT 92
N/F
PETER A. MACERA
D.B. 376, PG. 119

CDE
CASALI & D'AMICO ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
DRAINAGE - WETLANDS - EROSION - TRAFFIC - FLOODPLAIN
300 POPE ROAD, WARREN, RI 02886
(401) 844-1500 (401) 844-1515 FAX www.casaliandamico.com

PRELIMINARY NOT FOR CONSTRUCTION

DAVID M. D'AMICO
No. 6749
REGISTERED PROFESSIONAL ENGINEER
CIVIL
4/6/09



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 MAY 12 2009 FILE # 09-0076
NO CHANGES ALLOWED WITHOUT PRIOR WRITTEN APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GENERAL NOTES:

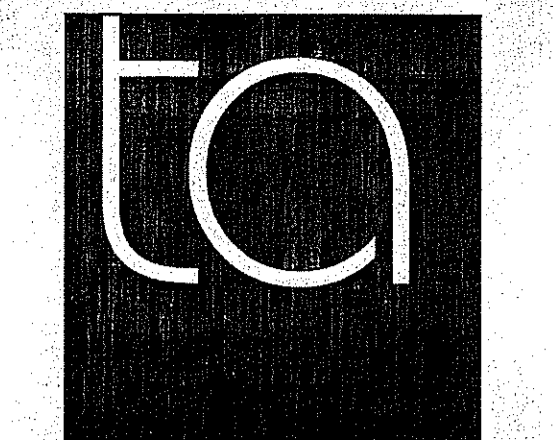
- EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE INFORMATION. LOCATION OF ALL UNDERGROUND STRUCTURES ARE APPROXIMATE ONLY.
- STORMWATER RUNOFF GENERATED FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH ENTRANCE IMPROVEMENTS WILL NOT RESULT IN AN INCREASE IN PEAK RUNOFF OR VOLUME.
- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TEMPORARY CONSTRUCTION AREAS SHALL BE RESTORED TO THEIR NATURAL STATE. CONTRACTOR TO PROVIDE DENSE VEGETATION NATIVE TO THE AREA.
- WETLAND EDGES HAVE BEEN FLAGGED BY NATURAL RESOURCE SERVICES AND FIELD LOCATED BY CATALDO ASSOCIATES.
- ALL CONSTRUCTION VEHICLES SHALL ENTER & EXIT AT ROCKLAND ROAD. ALL NECESSARY TRAFFIC CONTROL DEVICES SHALL BE SET IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- EXISTING EGRESS TO PROVIDE CIRCULATION OF TRAFFIC DURING CONSTRUCTION OPERATIONS. ONCE NEW ENTRANCE IS COMPLETED AND ACCEPTED BY THE SCITUATE SCHOOL DEPARTMENT, REMOVAL AND DISPOSAL OF SAID ENTRANCE SHALL BEGIN.

Sign Table:

DESCPT.	NAME	MUTCD CODE
STOP	STOP SIGN	R1-1
NO ENTRY	DO NOT ENTER	R5-1

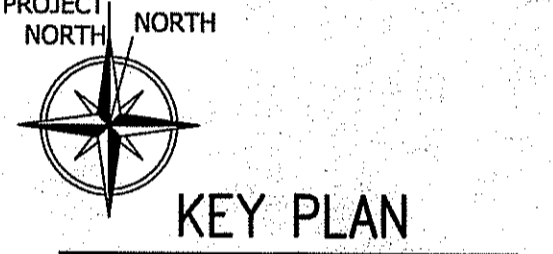
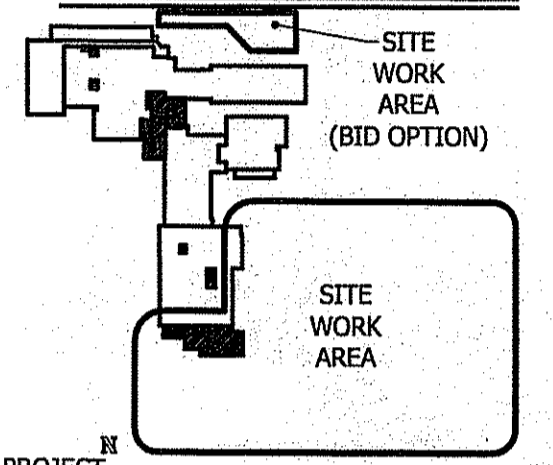
NOTE:
ALL SIGNAGE AND STRIPPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE SITE AND HAS FOUND NO EVIDENCE OF UNDERGROUND UTILITIES OR STRUCTURES. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE SITE AND HAS FOUND NO EVIDENCE OF UNDERGROUND UTILITIES OR STRUCTURES. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE SITE AND HAS FOUND NO EVIDENCE OF UNDERGROUND UTILITIES OR STRUCTURES.



TORRADO ARCHITECTS

35 GREENWICH ST.
PROVIDENCE, RI 02907
401.781.0633 P
401.781.0661 F



ADDITION AND RENOVATIONS TO:

SCITUATE MIDDLE SCHOOL/ HIGH SCHOOL

94 TRIMTOWN ROAD
NORTH SCITUATE, RI 02857

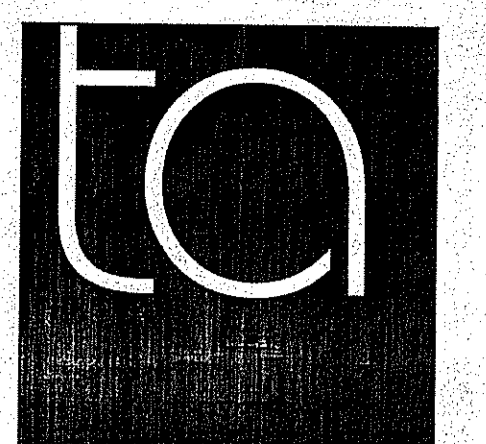
**ROCKLAND ROAD
ENTRANCE -
IMPROVEMENTS
(BID OPTION)**

4.8.09 1 RIDEM PLAN RESIZE

DATE:	REV. #	DESCRIPTION

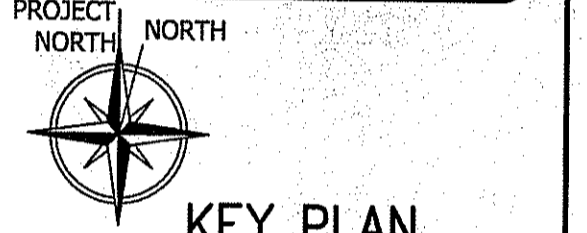
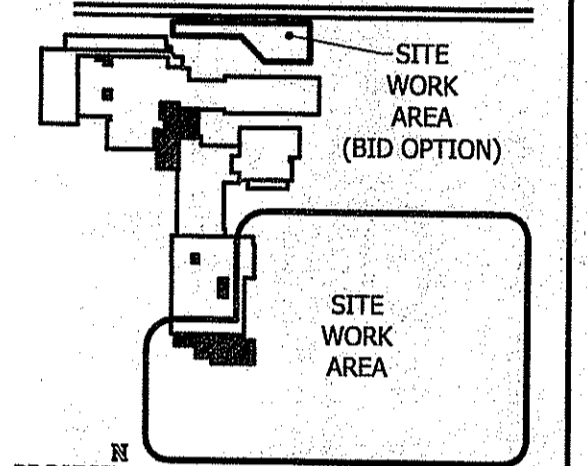
REVISIONS:
RIDEM PERMIT SET
DATE: MARCH 2009
DRWN: WMLJR/JEA
SCALE: AS NOTED
CHECKED BY: DJM

C.6



TORRADO ARCHITECTS

35 GREENWICH ST.
PROVIDENCE, RI 02907
401.781.0633 P
401.781.0661 F



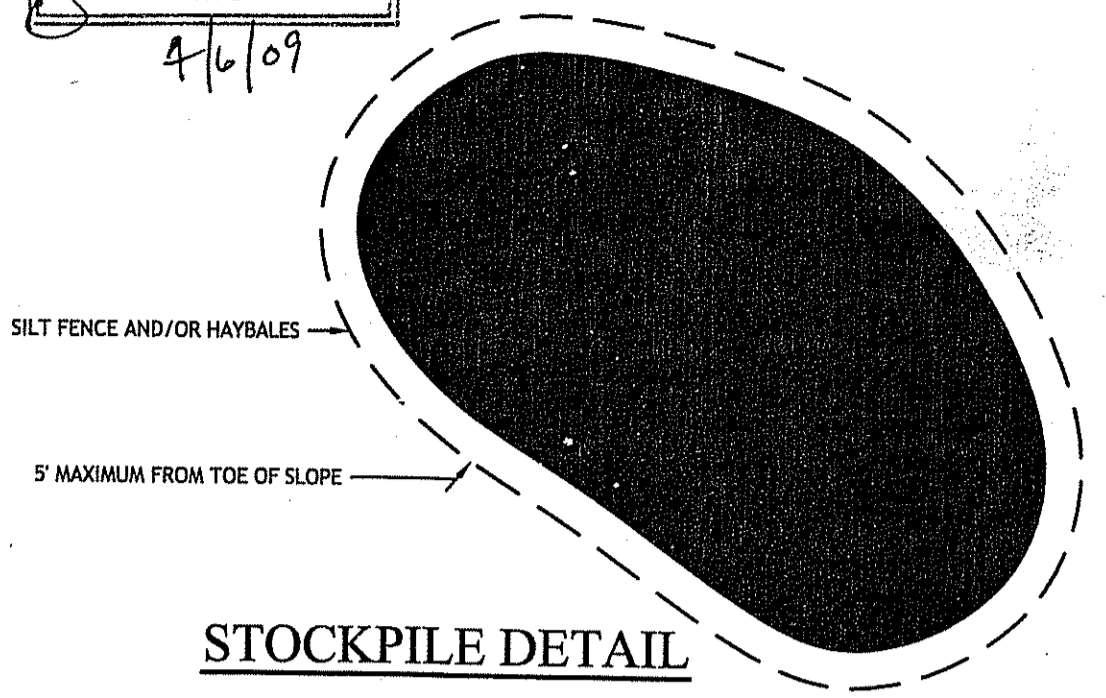
KEY PLAN

ADDITION AND RENOVATIONS TO:

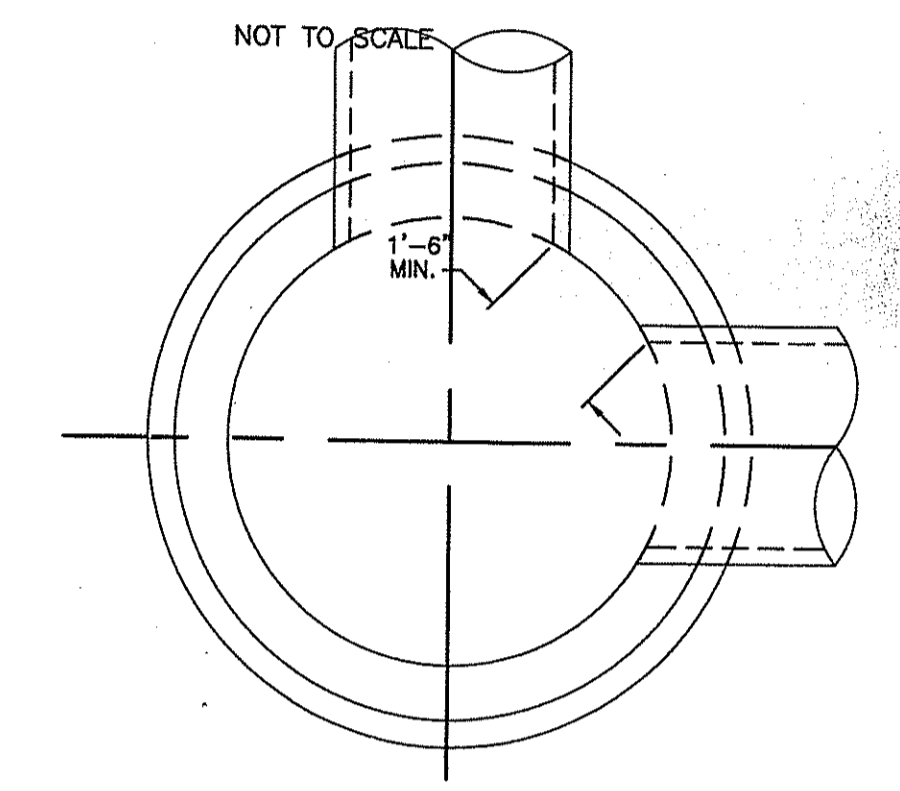
SCITUATE MIDDLE SCHOOL/ HIGH SCHOOL

94 TRIMONT ROAD
NORTH SCITUATE, RI 02857

CDE
CASALI & D'AMICO ENGINEERING, INC.
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION



STOCKPILE DETAIL



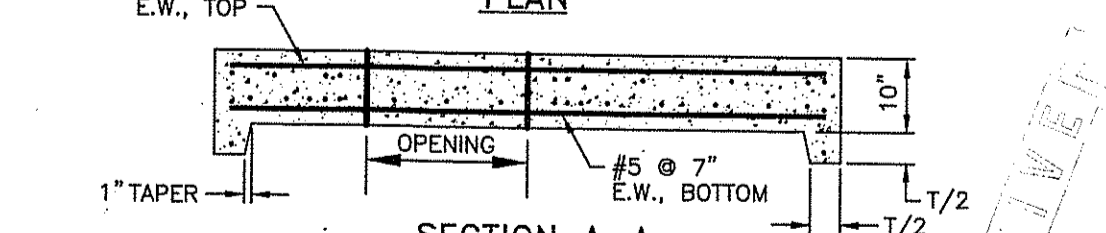
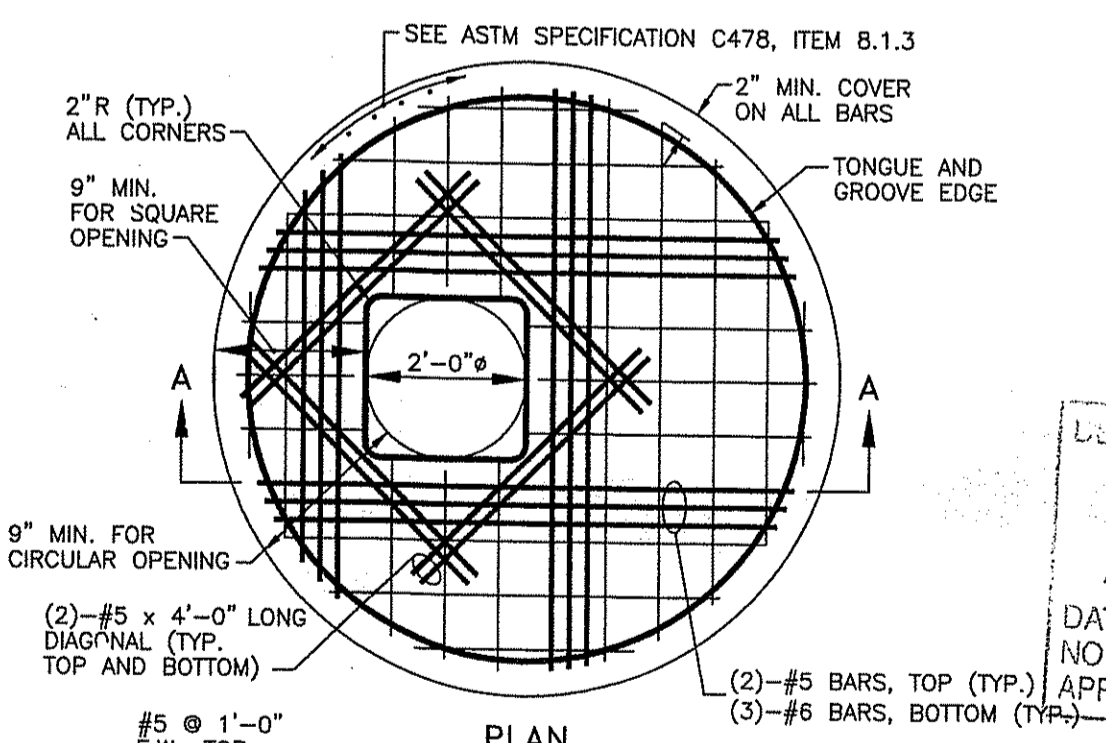
CROSS SECTION OF MANHOLE OR CATCH BASIN

	4 FT. MANHOLE OR CATCH BASIN	5 FT. MANHOLE OR CATCH BASIN	6 FT. MANHOLE OR CATCH BASIN
MAX. PIPE O.D. STRAIGHT THRU TO 45° DEFLECTION	33 1/2" O.D. 27" R.C. PIPE	44" O.D. 36" R.C. PIPE	51" O.D. 42" R.C. PIPE
MAX. PIPE O.D. 90° DEFLECTION	23" O.D. 18" R.C. PIPE	33 1/2" O.D. 27" R.C. PIPE	37" O.D. 30" R.C. PIPE

NOTE:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE MINIMUM DISTANCE BETWEEN PIPES ENTERING MANHOLES AND CATCH BASINS MUST BE 1'-6" THE SIZE OF THE CATCH BASIN WILL BE DETERMINED BY THE PIPE SIZE AND ENTRY ANGLE. (SEE TABLE ABOVE.)

ROUND MANHOLES AND CATCH BASINS MAXIMUM PIPE SIZE STANDARD

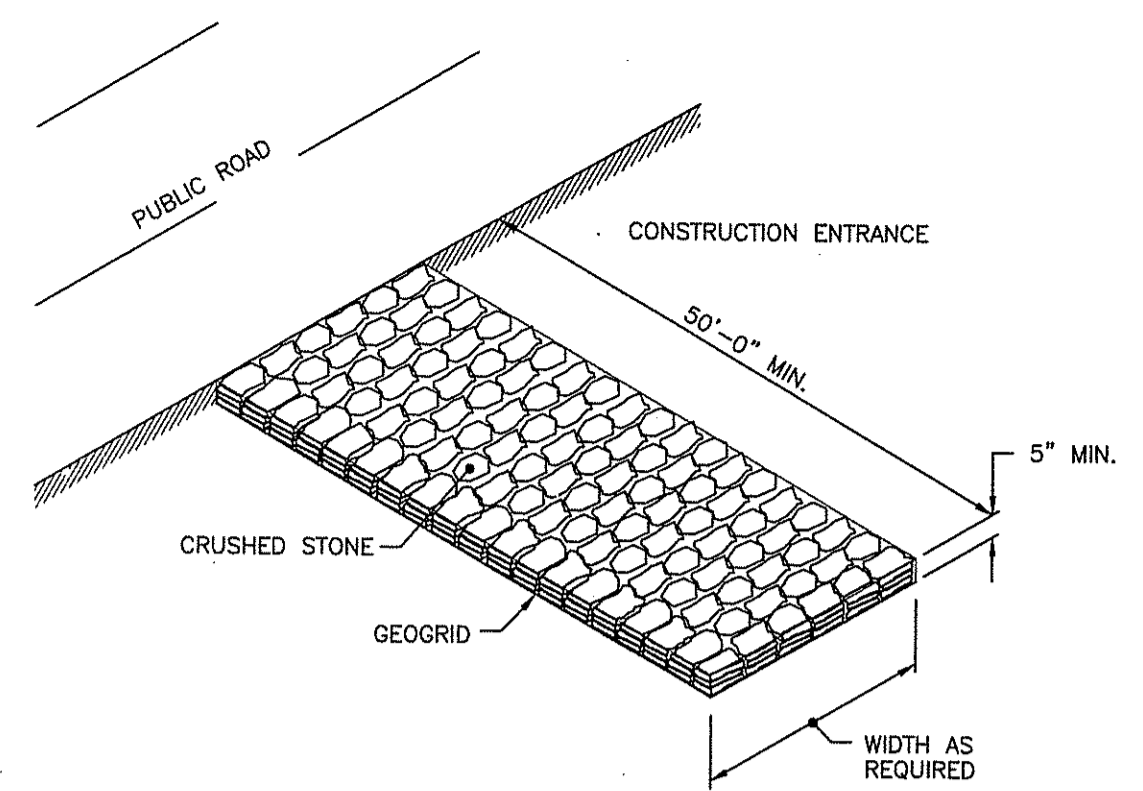
N.T.S.



NOTE:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. 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.
3. THE CENTER LINE OF THE OPENING MUST BE WITHIN 2" FROM THE STEPS.
4. ALTERNATE TOP COVER IS STEEL REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
5. ALL REBAR SHALL HAVE A MINIMUM OF 2" CLEARANCE FROM OPENING.
6. ALL REBARS IN THE BOTTOM MAT ARE #5 @ 2", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (3) #6 SHOWN WITH A HEAVIER LINE FOR CLARITY. REBARS IN THE TOP MAT ARE #5 @ 1'-0", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (2) #5 BARS.

ALTERNATE TOP COVER FOR ROUND PRECAST MANHOLES AND CATCH BASINS

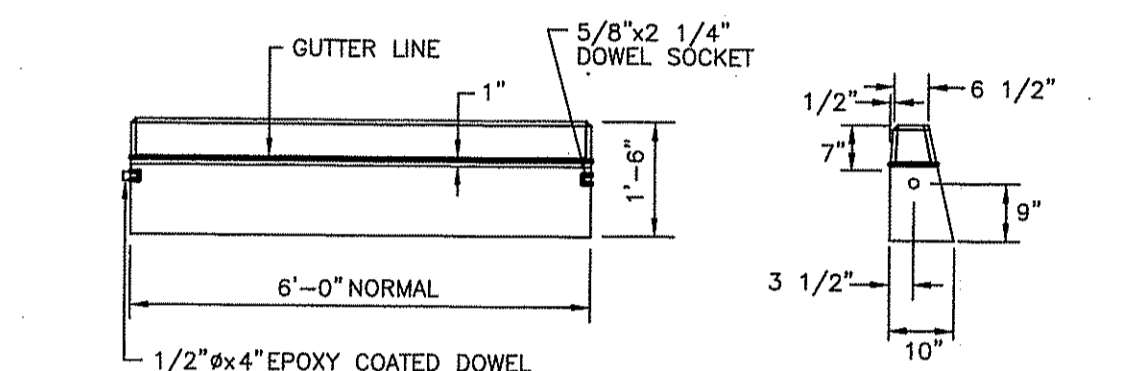
N.T.S. R.I. STANDARD 4.7.2



NOTE: SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

CONSTRUCTION ACCESS

N.T.S. R.I. STANDARD 9.9.0

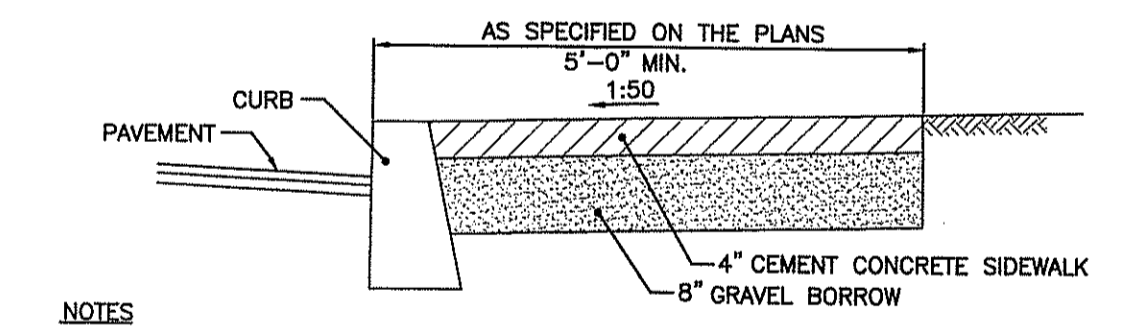


CIRCULAR CURB

NOTE:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 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 RADII 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

N.T.S. R.I. STANDARD 7.1.0

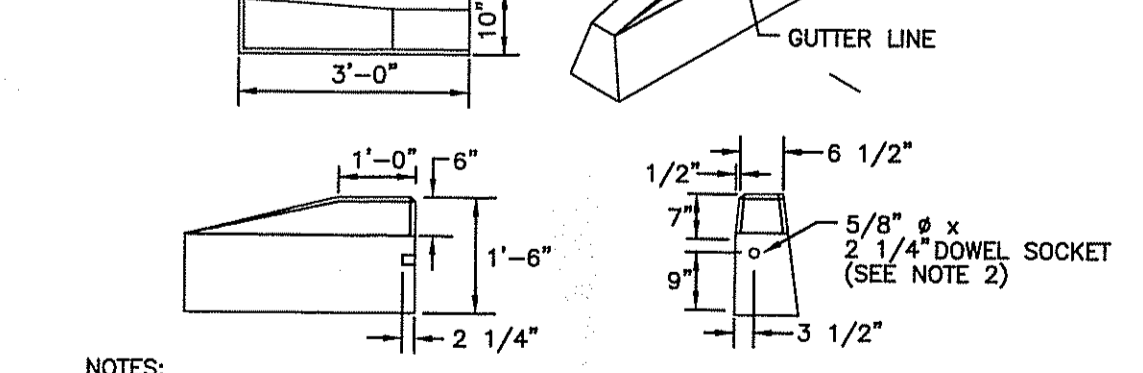


CEMENT CONCRETE SIDEWALK

NOTE:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.

3'-0" PRECAST CONCRETE TRANSITION CURB

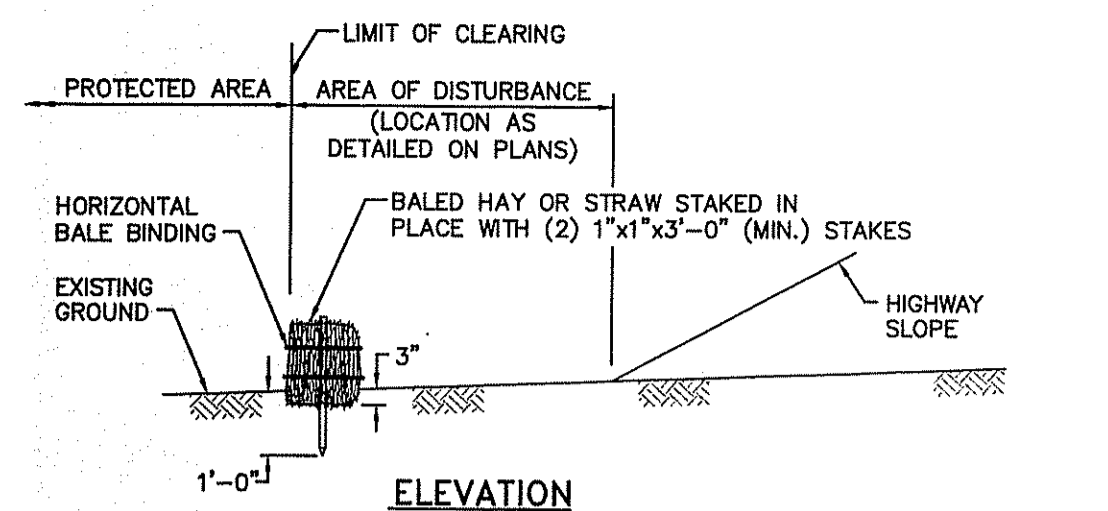
N.T.S. R.I. STANDARD 7.1.1



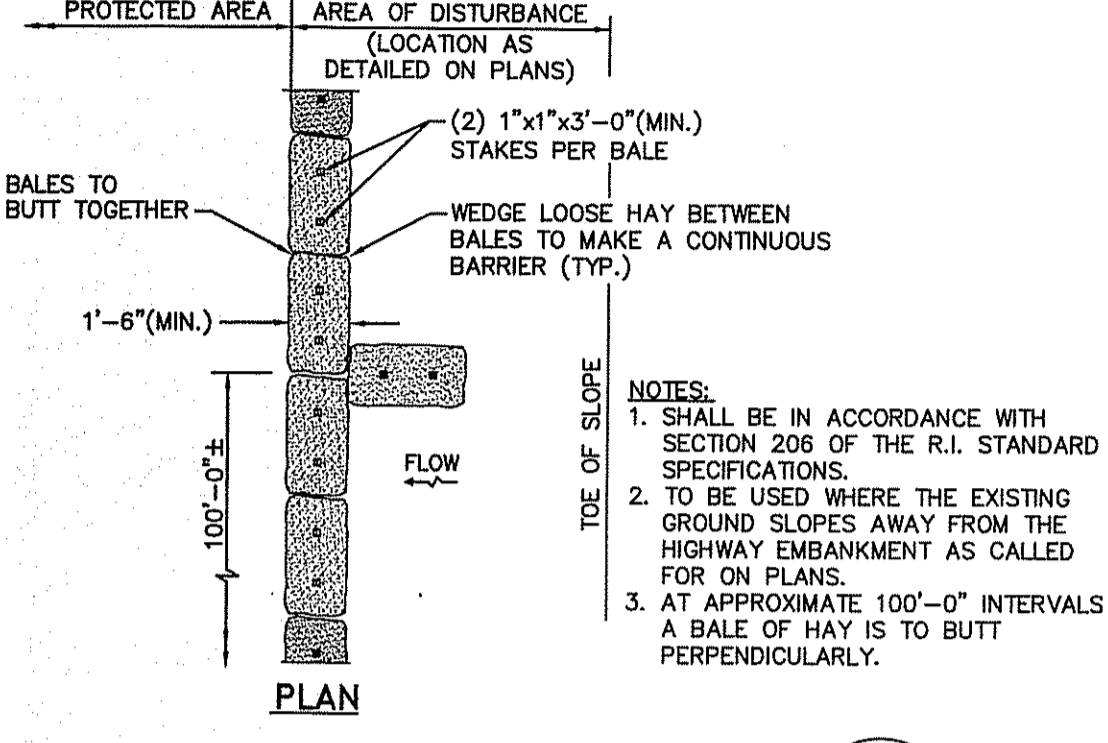
NOTE:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION, FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" @ 4" EPOXY COATED DOWEL.
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

PAVEMENT CUT & MATCH

N.T.S. R.I. STANDARD 4.3.0



ELEVATION

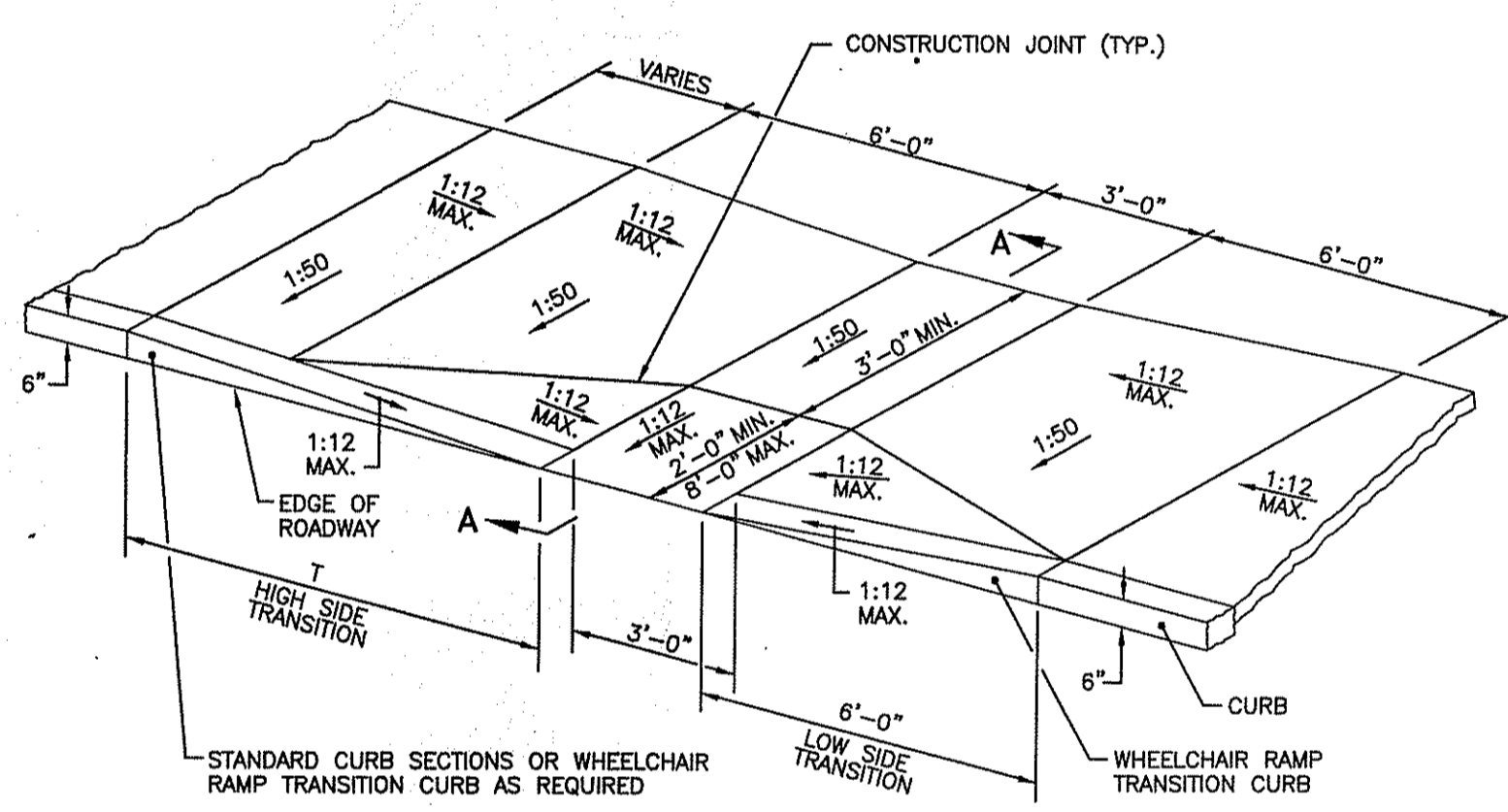


PLAN

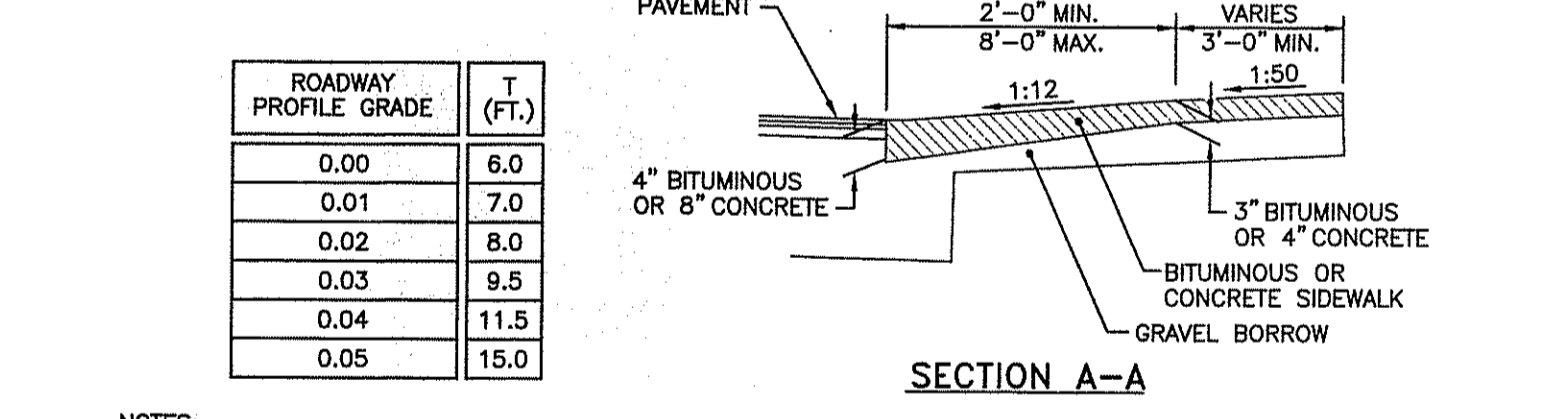
NOTE:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. TO BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM THE HIGHWAY EMBANKMENT AS CALLED FOR ON PLANS.
3. AT APPROXIMATE 100'-0" INTERVALS A BALE OF HAY IS TO BUTT PERPENDICULARLY.

BALED HAY EROSION CHECK

N.T.S. R.I. STANDARD 9.1.0



ISOMETRIC VIEW

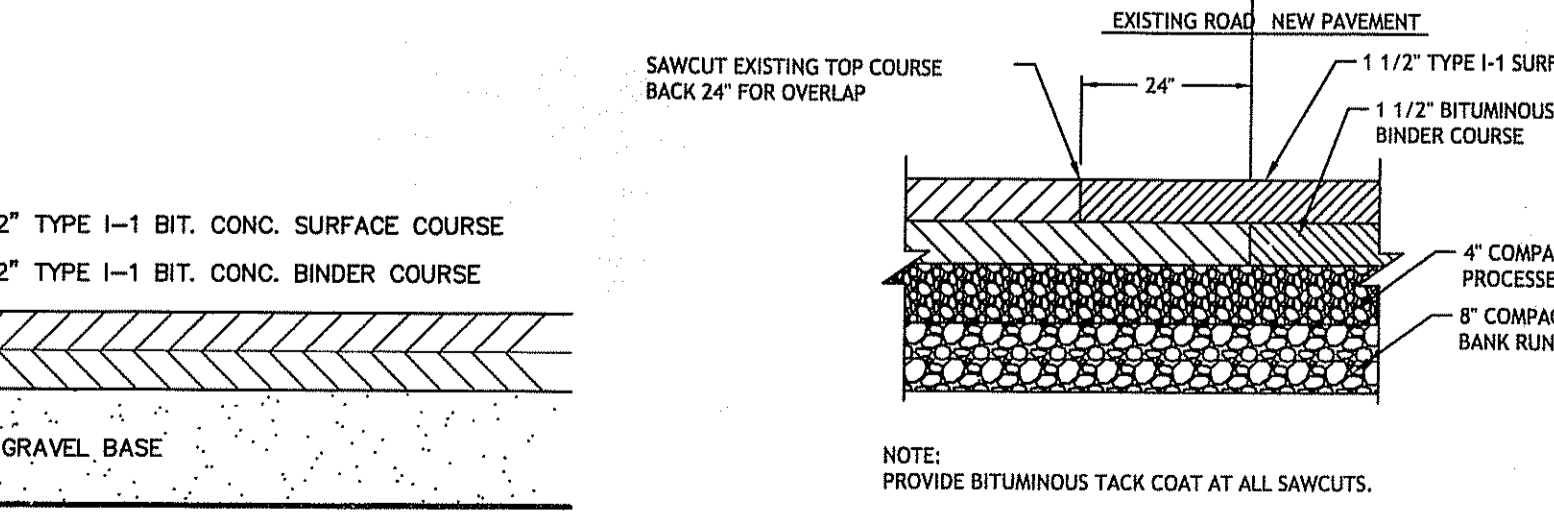


SECTION A-A

NOTE:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP WILL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
4. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMP.
5. LOCATION OF WHEELCHAIR RAMP IS AS SHOWN ON CONTRACT DRAWINGS.
6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED.
8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT EXCEED 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
9. WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
10. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
11. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
12. THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
13. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
14. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.

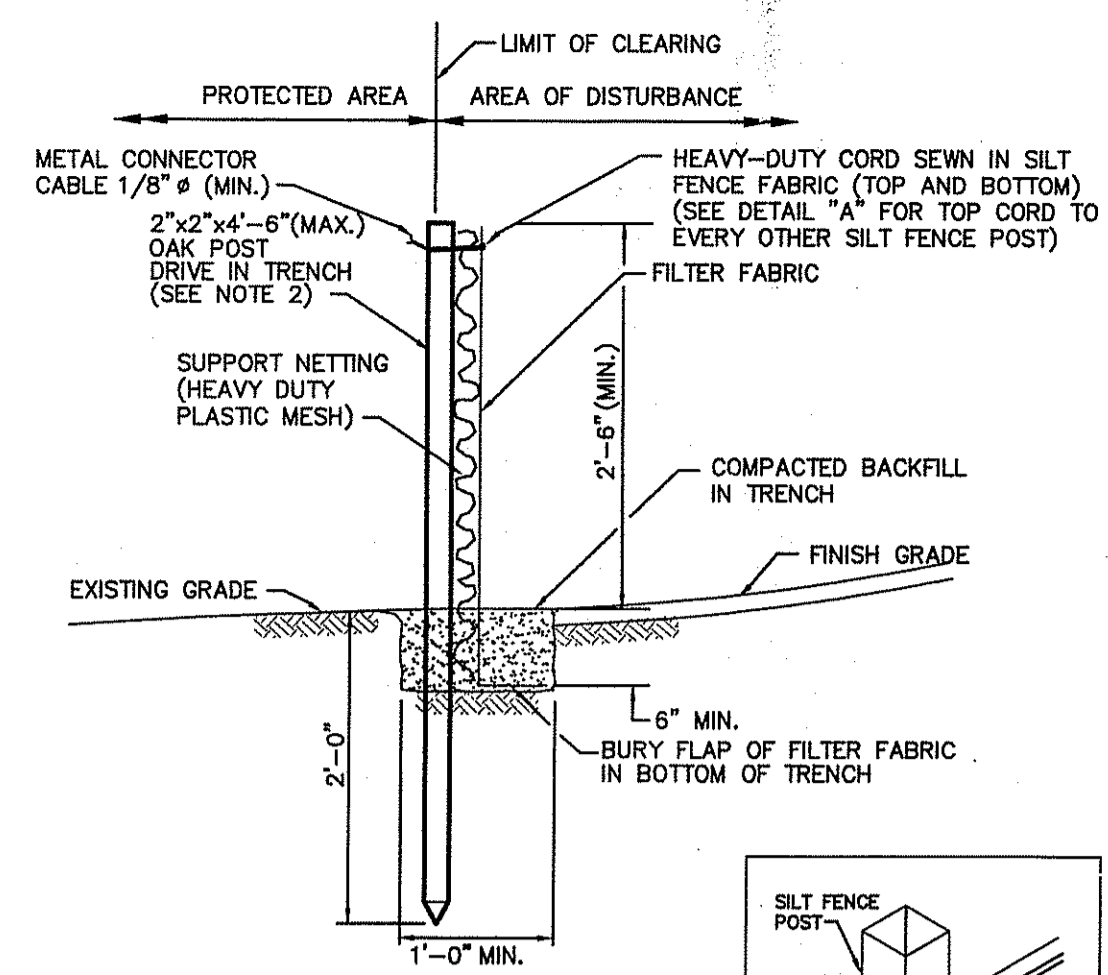
WHEELCHAIR RAMP

N.T.S. R.I. STANDARD 43.3.0



PAVEMENT CROSS SECTION

N.T.S. R.I. STANDARD 43.3.0

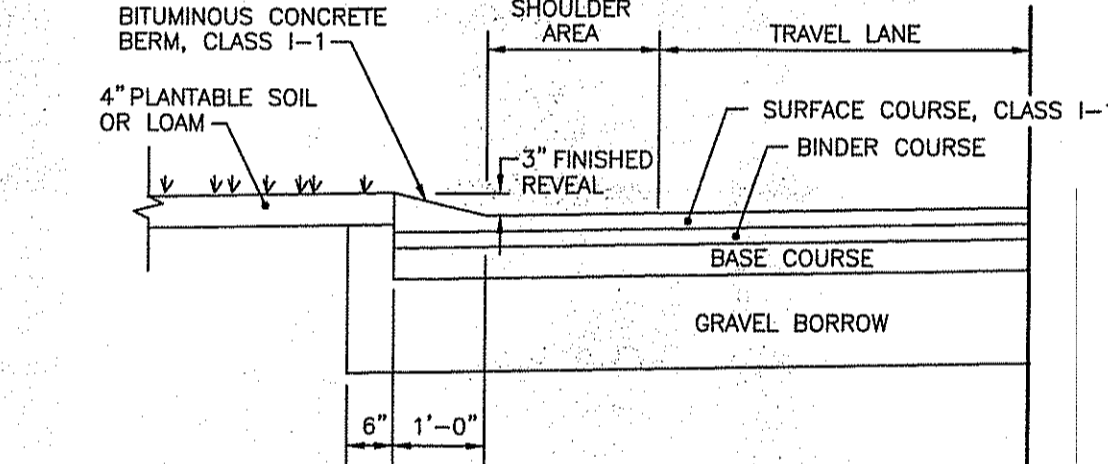


SILT FENCE DETAIL

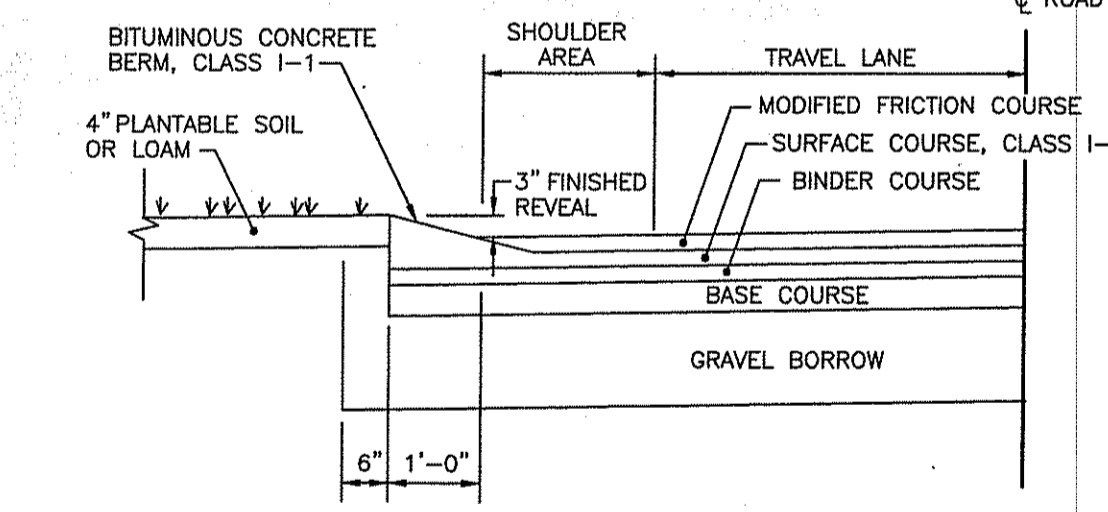
NOTE:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. 2"x2'-4"-8" (MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 6'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1'-4"-8" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

DETAIL "A"

N.T.S. R.I. STANDARD 9.2.0



CONSTRUCTION METHOD A

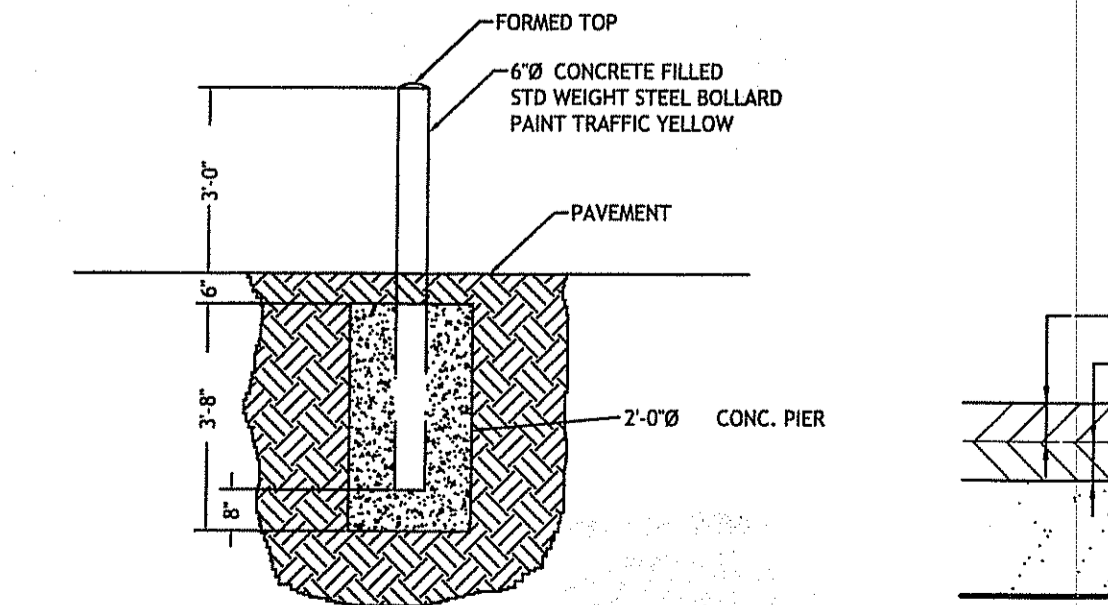


CONSTRUCTION METHOD B

NOTE:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. BITUMINOUS BERM CAN BE PLACED AT THE SAME TIME THAT THE SURFACE COURSE LAYER IS PLACED ON THE PROJECT ROADWAY, OR IT CAN BE INSTALLED IN A SEPARATE OPERATION.

BITUMINOUS BERM

N.T.S. R.I. STANDARD 7.5.1



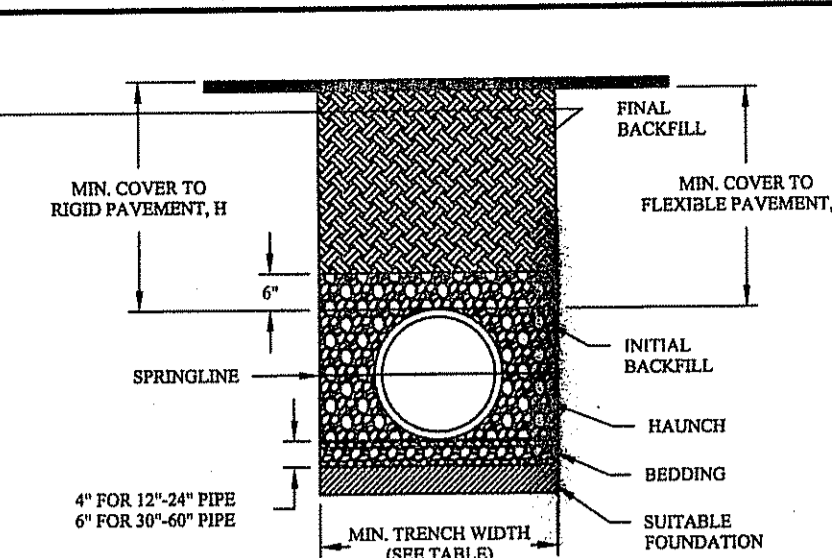
TYPICAL BOLLARD DETAIL

N.T.S. R.I. STANDARD 4.7.2

ALL DRAWINGS, IN PART, WERE PREPARED BY THE CONSULTING ENGINEER, CASALI & D'AMICO ENGINEERING, INC., UNDER THE CLOSE PERSONAL SUPERVISION AND DIRECT CONTROL OF THE REGISTERED PROFESSIONAL ENGINEER, DAVID M. D'AMICO, REGISTERED PROFESSIONAL ENGINEER, CIVIL, LICENSE NO. 6749, STATE OF RHODE ISLAND. THE CONSULTING ENGINEER, CASALI & D'AMICO ENGINEERING, INC., AND THE REGISTERED PROFESSIONAL ENGINEER, DAVID M. D'AMICO, ACCEPT RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THESE DRAWINGS, INCLUDING THE CORRECTNESS OF THE INFORMATION THEREON.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER DIVISION
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 12 2009
NO CHANGE ALLOWED WITHOUT WRITTEN APPROVAL
APPROVED PLAN MUST BE USED FOR CONSTRUCTION

4.6.09 1 RIDEM PLAN RESIZE
DATE: REV. # DESCRIPTION
REVISIONS:
RIDEM PERMIT SET
DATE: MARCH 2009
DRAWN: WMLJR/JEA
SCALE: AS NOTED
CHECKED BY: D.M.D.



RECOMMENDED MINIMUM TRENCH WIDTHS

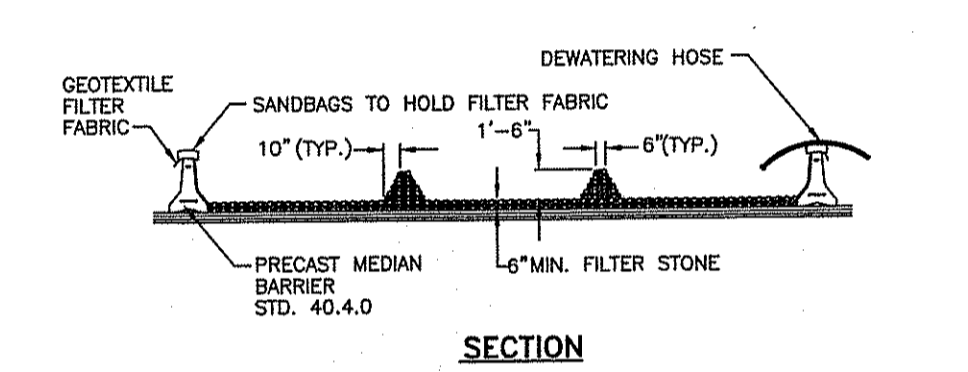
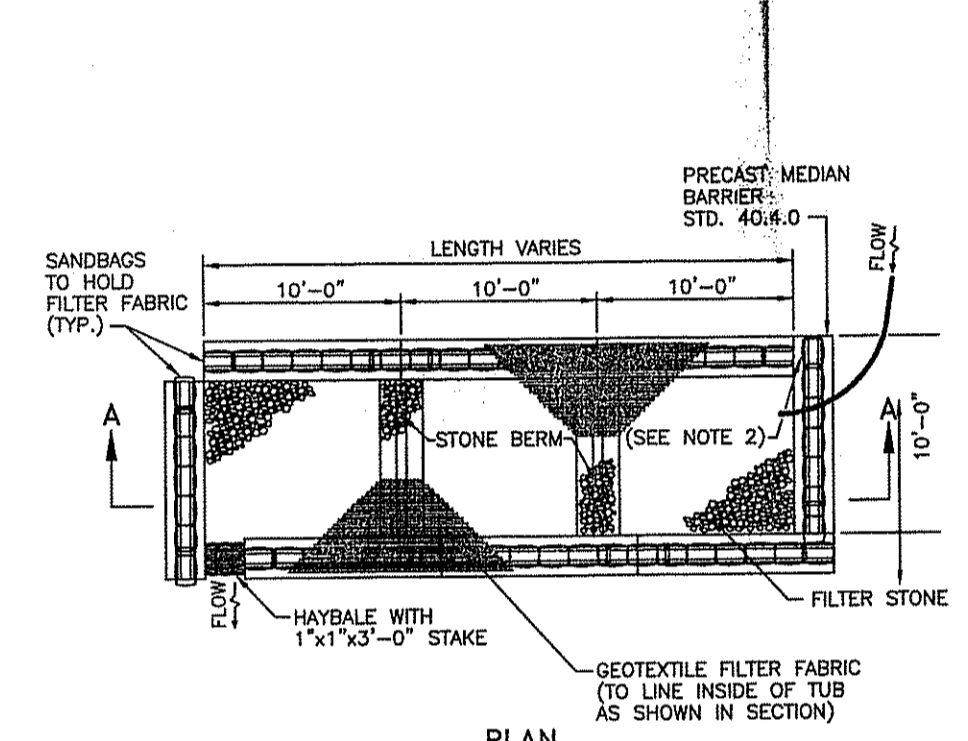
PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
12"	28"
15"	30"
18"	32"
24"	36"
30"	42"
36"	48"
42"	54"
48"	60"
54"	66"
60"	72"

LEGEND

SIGN NUMBER	RS-1
COLOR	BACKGROUND: RED COPY: WHITE
SIGN DIMENSION	WIDTH: 30" HEIGHT: 30"

- NOTES:
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC 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. 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" TO 6" DIAMETER PIPE AND 4" OF COVER FOR 6" TO 36" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
 - 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 BY 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 FLAUGHT. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 4" OF COVER FOR 48" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

ADS PIPE TRENCH INSTALLATION DETAIL:



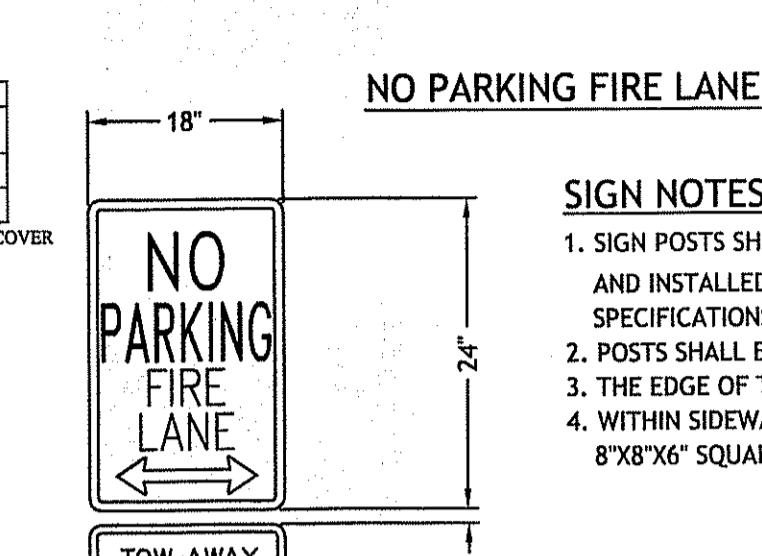
DEWATERING BASIN

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

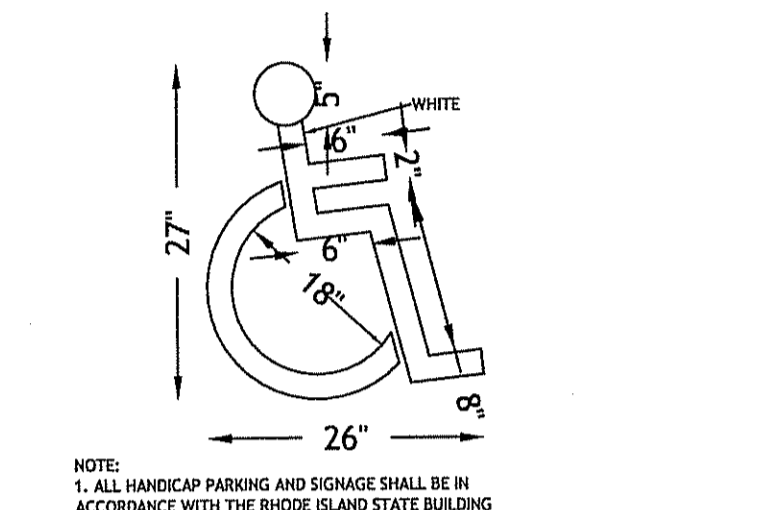
PIPE DIAM.	HEAVY CONSTRUCTION (57.5 KSI AXLE LOAD)
12" - 48"	12"
54" - 60"	24"

MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS

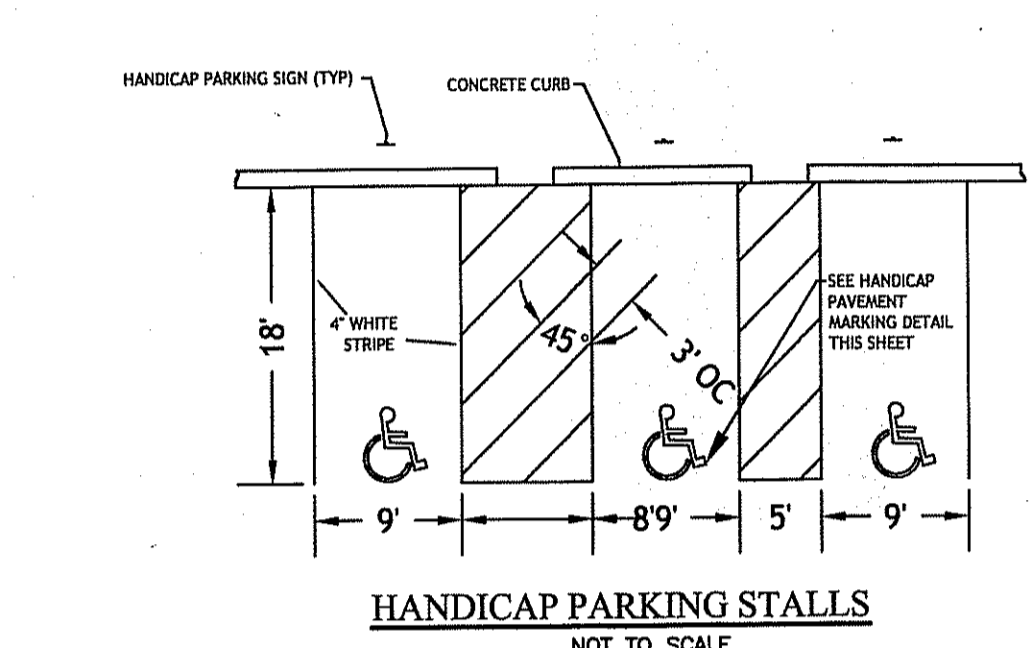
PIPE DIAM.	COVER
UP TO 24"	24"
30" - 36"	30"
42" - 60"	48"



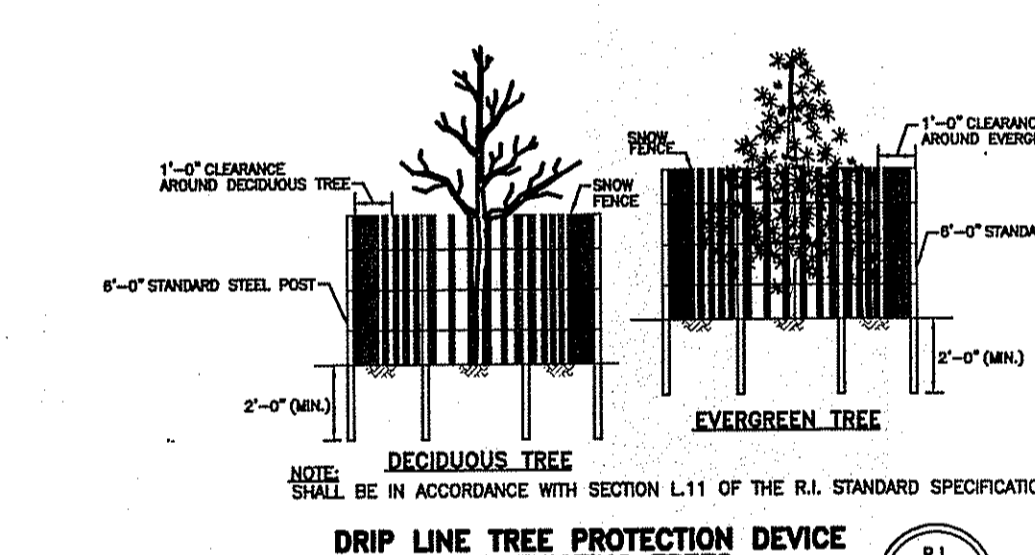
- SIGN NOTES:
- SIGN POSTS SHALL BE GALVANIZED STEEL U-CHANNEL (3 1/2" WIDE-MIN) AND INSTALLED IN CONFORMANCE TO M.U.T.C.D. AND RHODE ISLAND STANDARD SPECIFICATIONS.
 - POSTS SHALL BE DRIVEN TO A DEPTH OF 4 FEET (MIN.)
 - THE EDGE OF THE SIGN SHALL BE 18" FROM THE FACE OF THE CURB.
 - WITHIN SIDEWALK LOCATIONS THE SIGN POST WILL BE INSTALLED WITHIN A 8"X8" SQUARE BOX FORM.



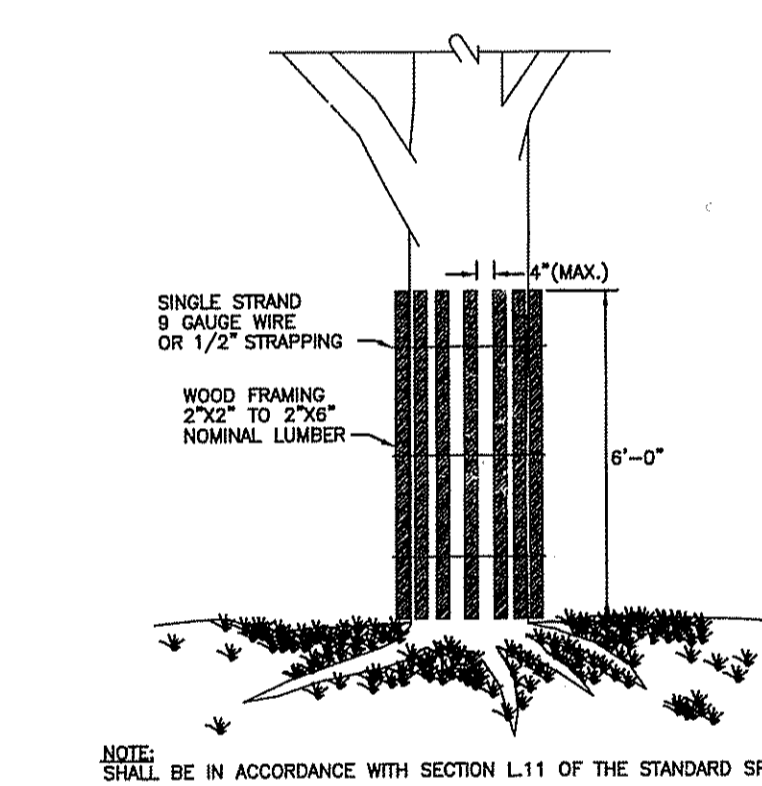
HANDICAP PAVEMENT MARKING



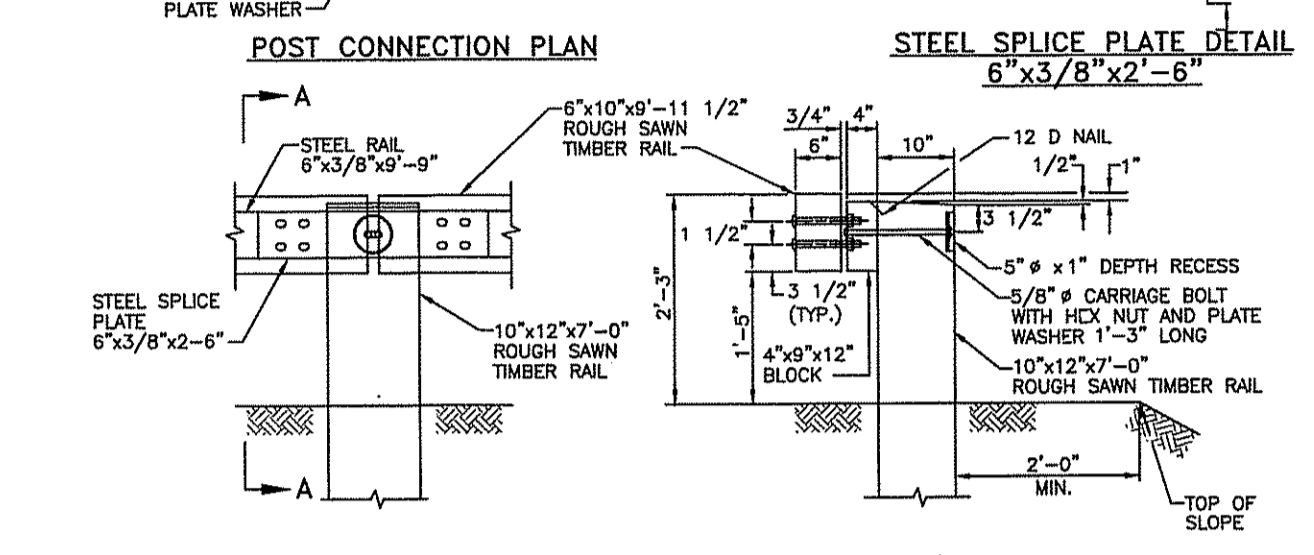
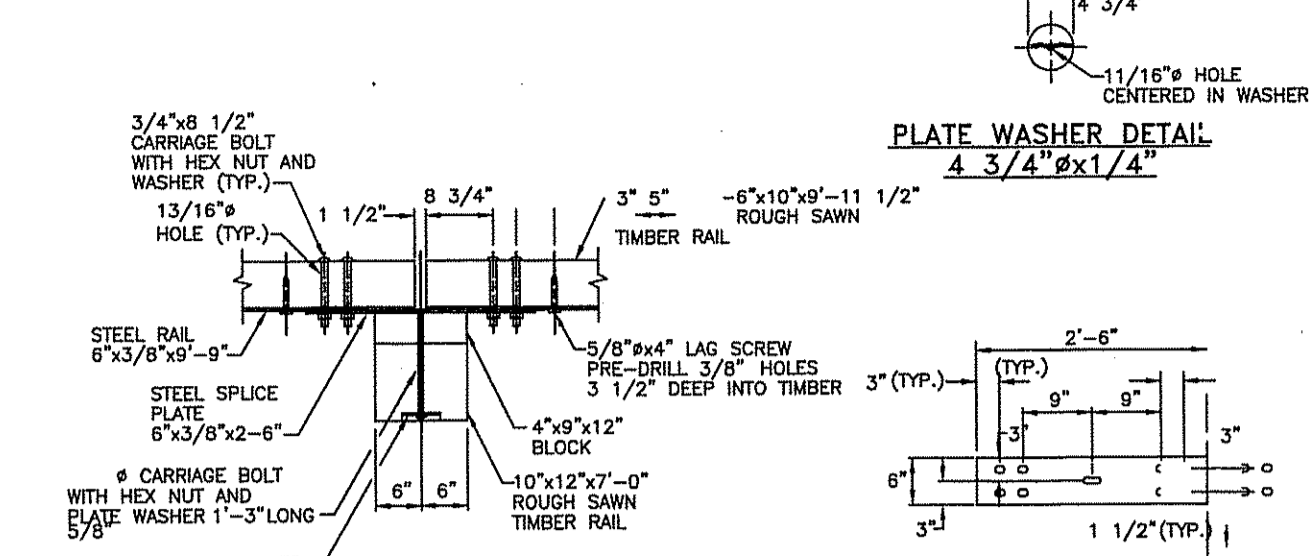
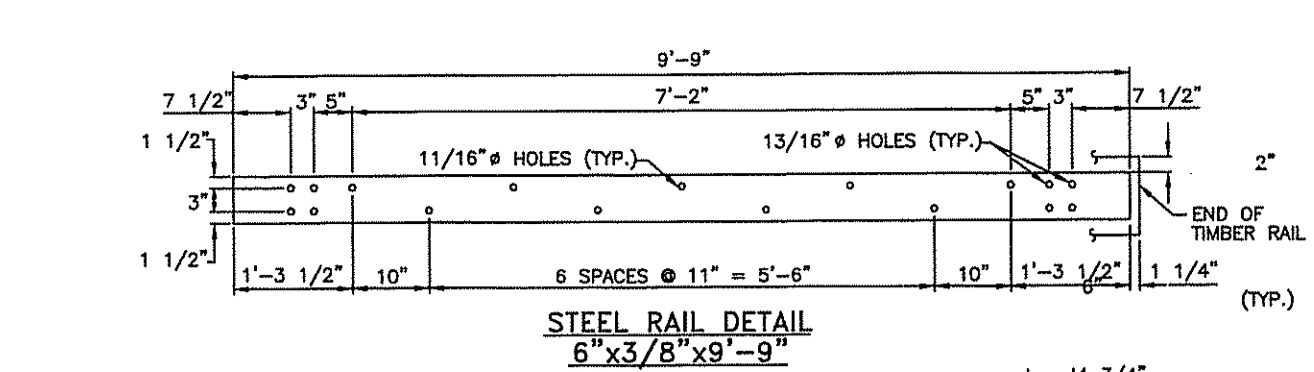
HANDICAP PARKING STALLS



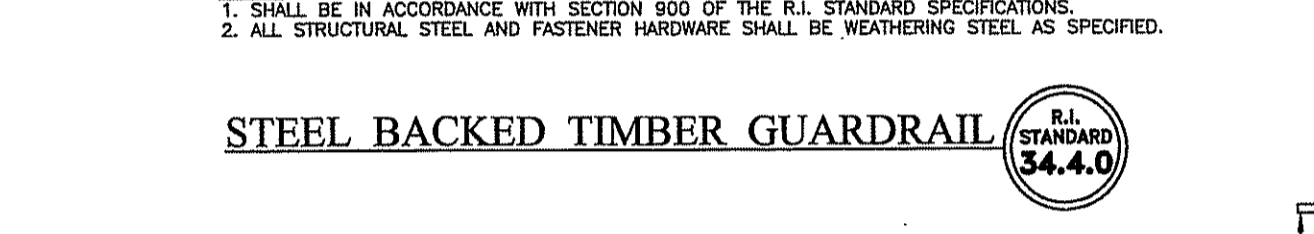
DRIP LINE TREE PROTECTION DEVICE



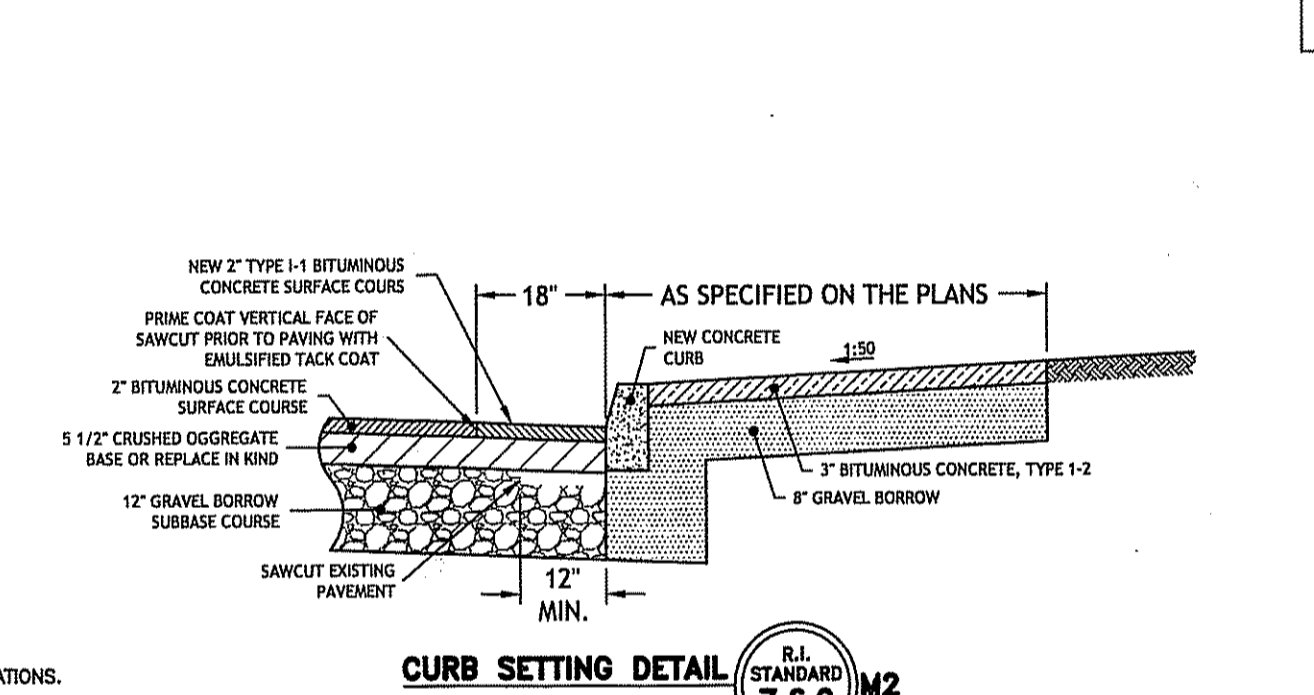
TREE PROTECTION DEVICE



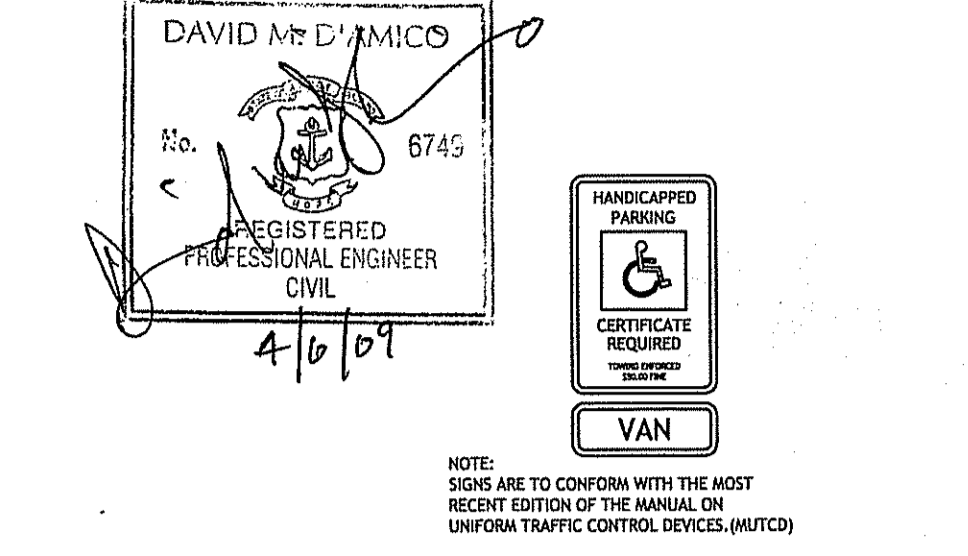
POST CONNECTION PLAN and SECTION A-A



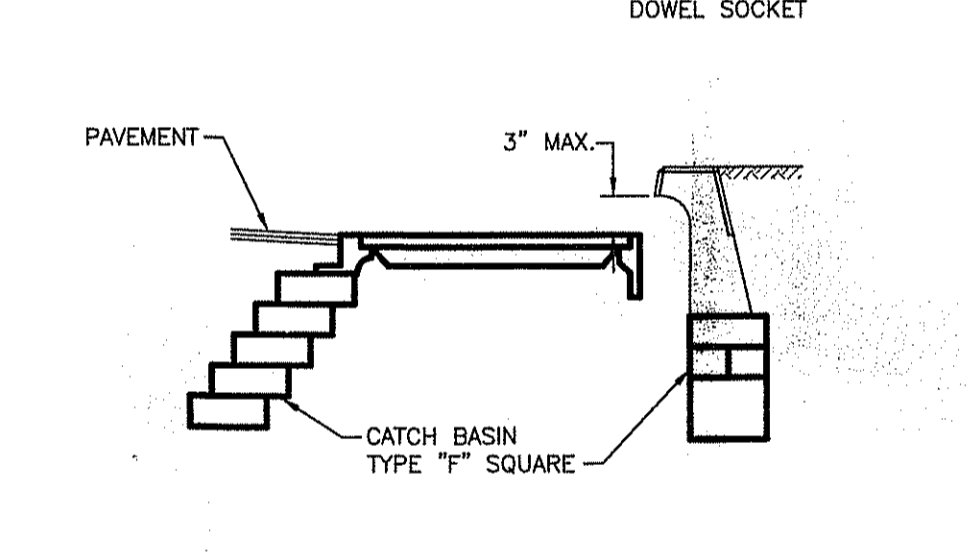
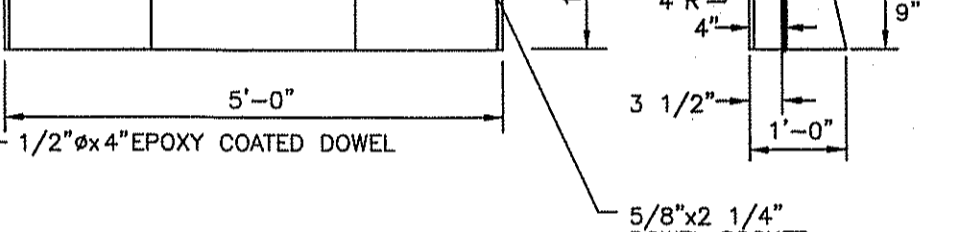
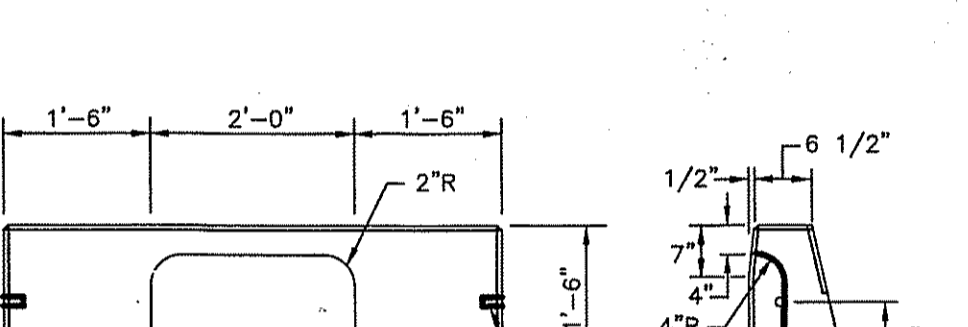
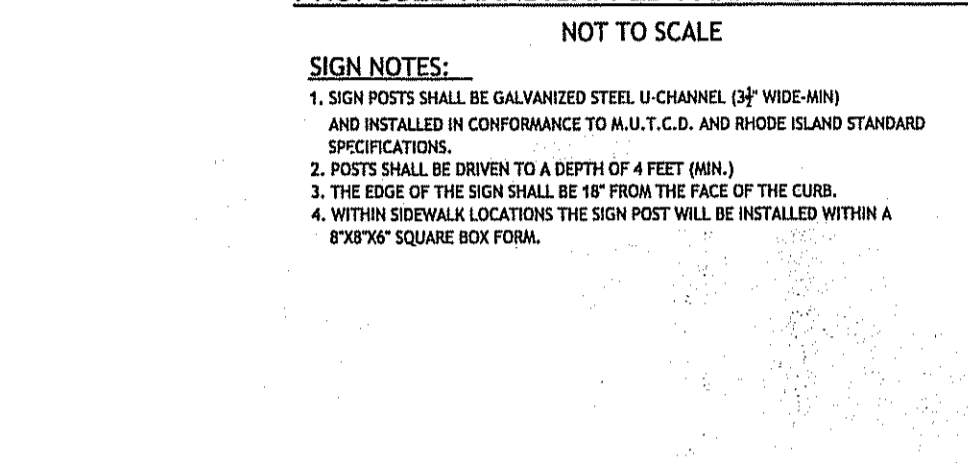
STEEL BACKED TIMBER GUARDRAIL



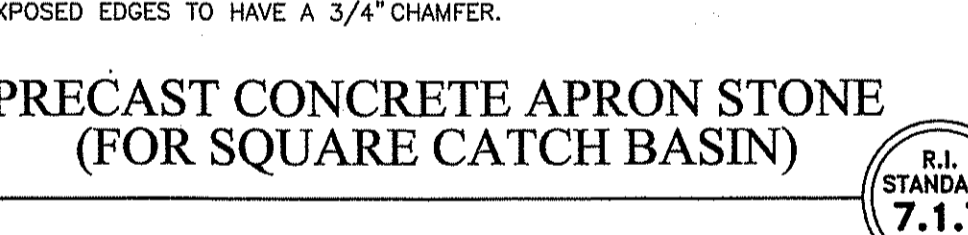
CURB SETTING DETAIL



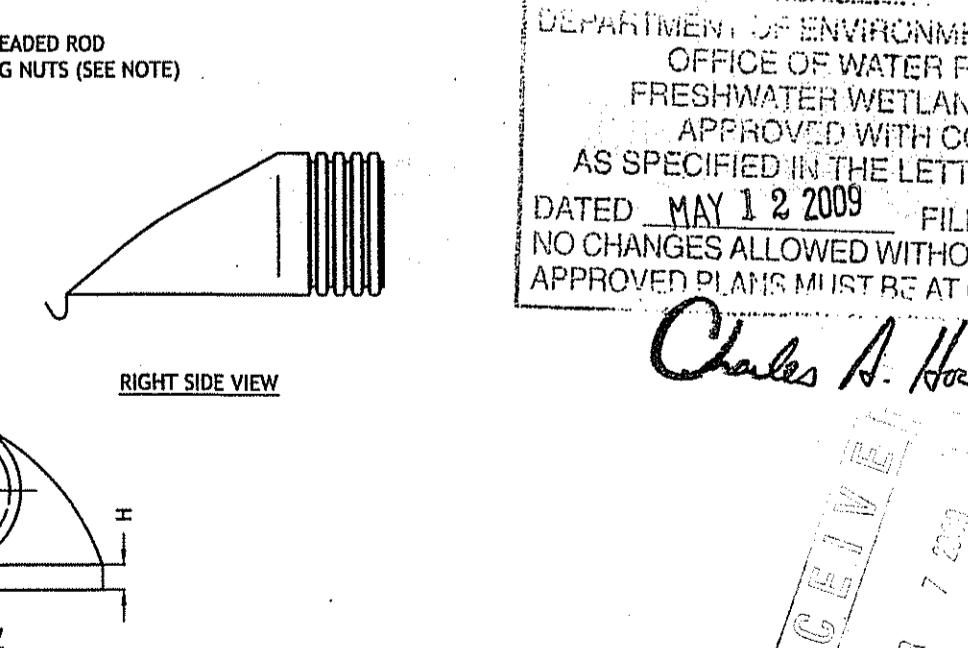
PROPOSED HANDICAPPED PARKING SIGNS



CATCH BASIN DETAIL



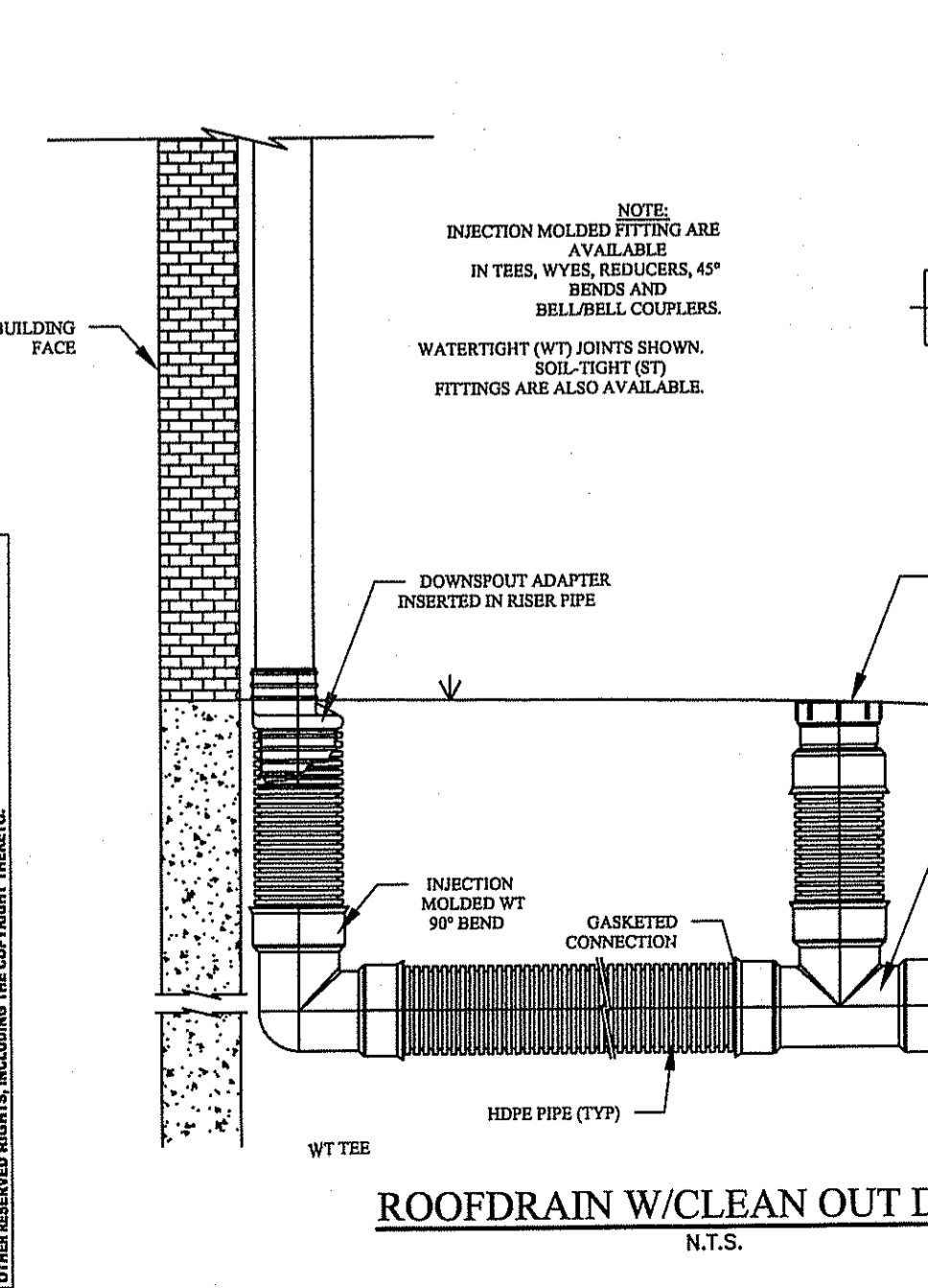
PRECAST CONCRETE APRON STONE



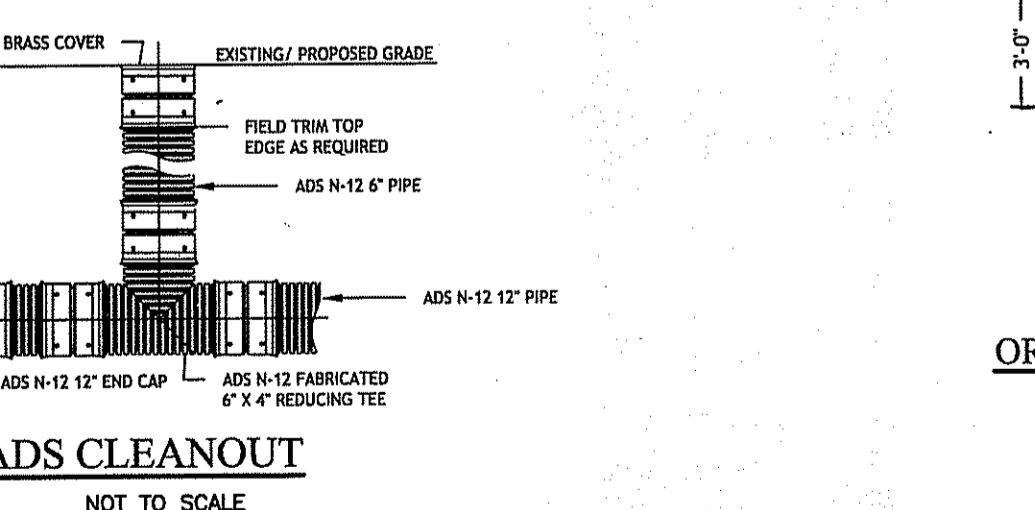
FLARED END SECTIONS

PART NO.	PIPE SIZE	A	B (MAX)	H	L	W
1210-NP	12"	6.5"	10"	6.5"	25"	29"
1210-NP	15"	6.5"	10"	6.5"	25"	29"
1810-NP	18"	7.5"	12"	7.5"	32"	35"
2410-NP	24"	7.5"	12"	7.5"	32"	35"
3012-NP	30"	10.5"	N/A	16.5"	81.2"	89.0"
3612-NP	36"	10.5"	N/A	17.8"	134.5"	172.5"
4212-NP	42"	10.5"	N/A	17.8"	134.5"	172.5"

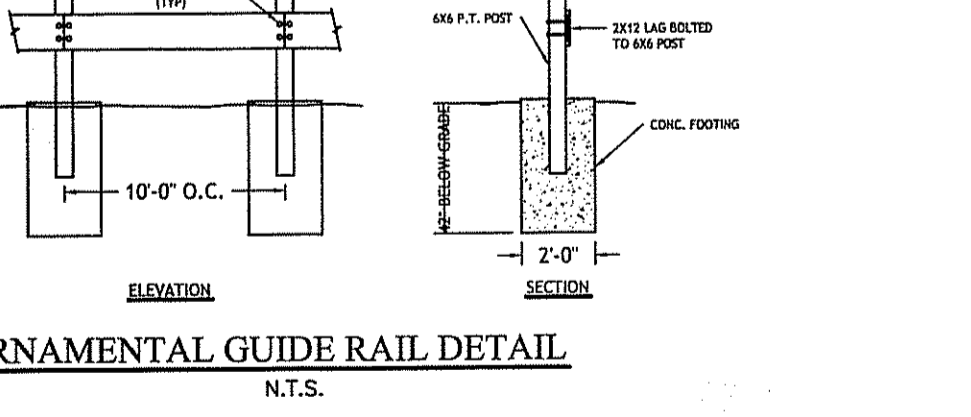
ADS FLARED END SECTION (FES) DETAIL:



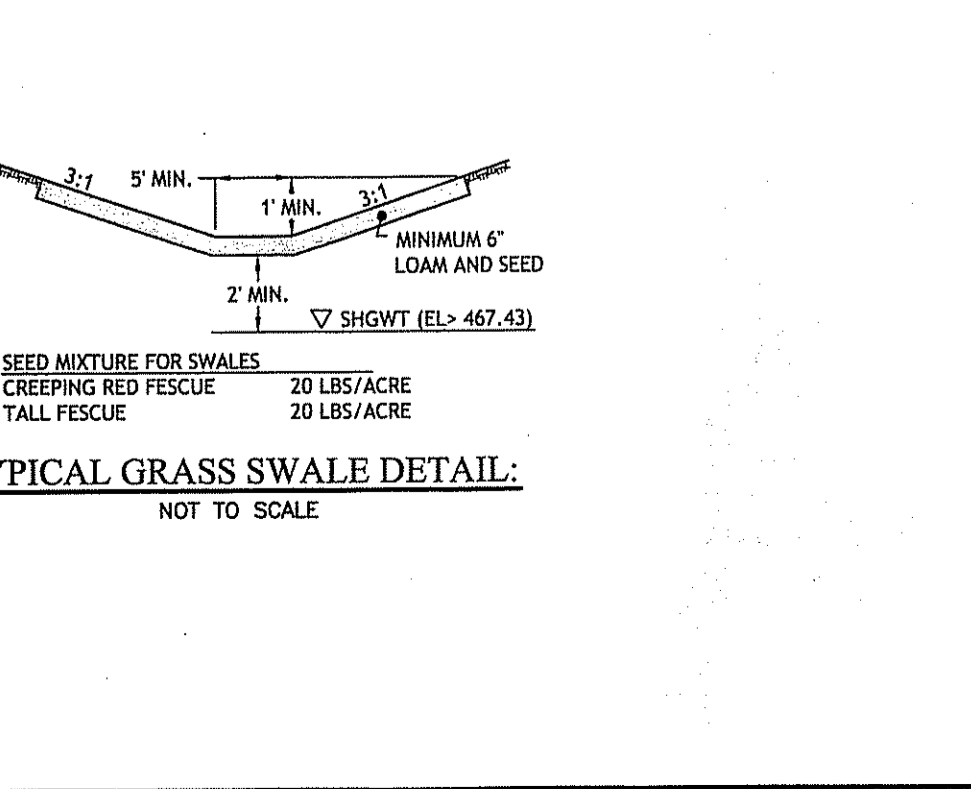
ROOF DRAIN W/CLEAN OUT DETAIL:



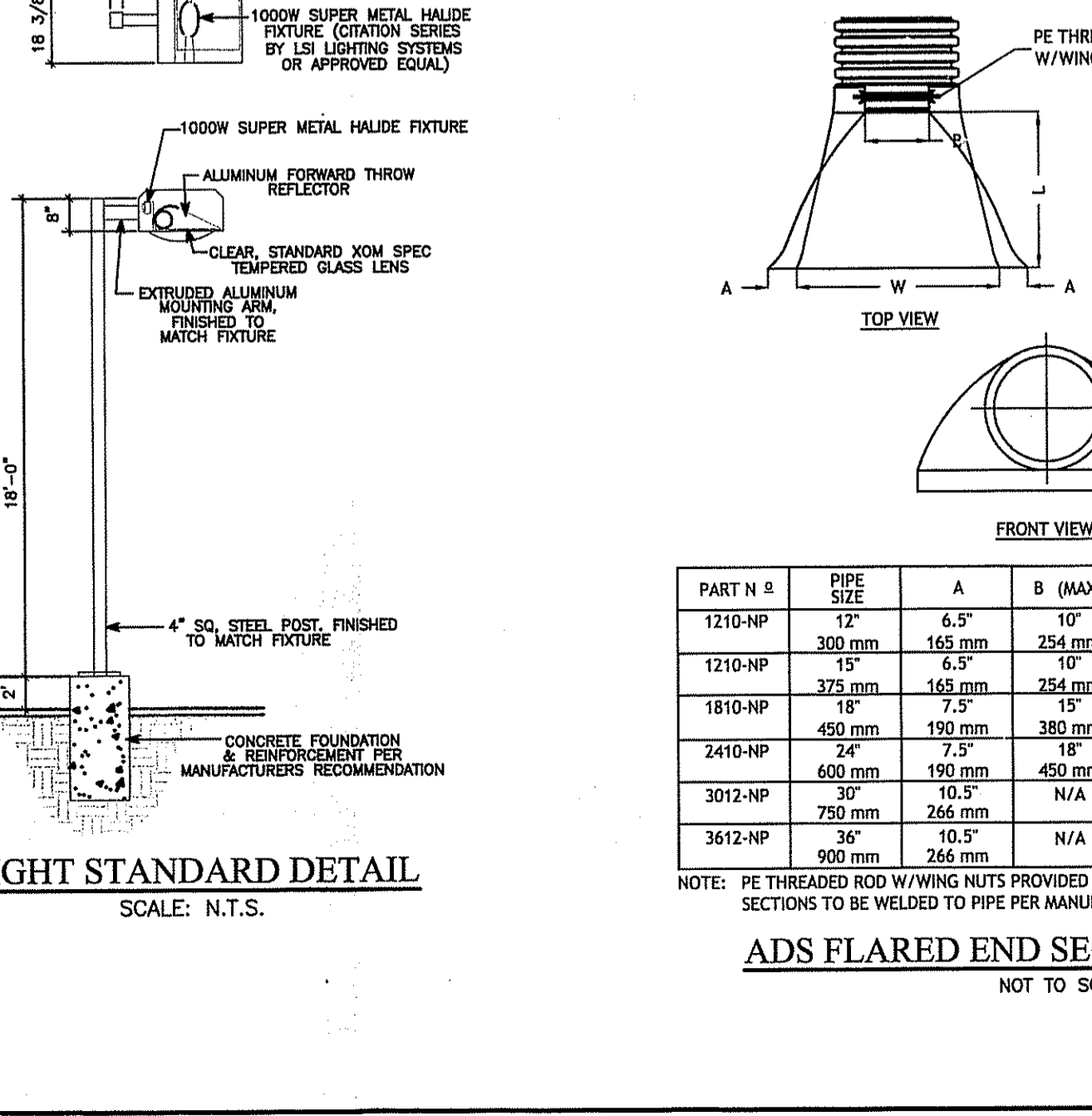
ADS CLEANOUT



ORNAMENTAL GUIDE RAIL DETAIL

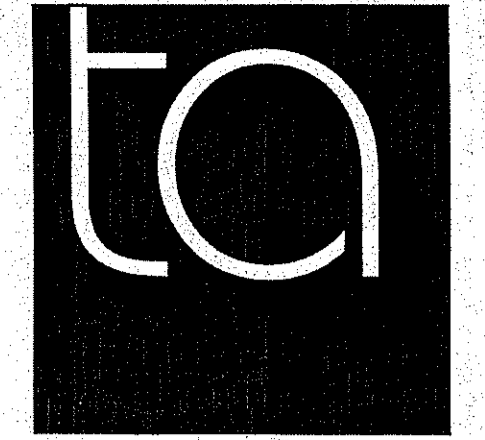


TYPICAL GRASS SWALE DETAIL:



LIGHT STANDARD DETAIL

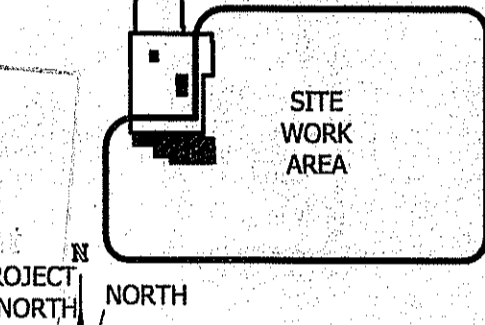
ALL MATERIALS, METHODS, SPECIFICATIONS, CONSTRUCTION SHALL BE AS SHOWN AND ALL OTHER DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH THE R.I. STANDARD SPECIFICATIONS, LATEST EDITION. ALL MATERIALS SHALL BE INSTALLED AS REQUIRED BY THE R.I. STANDARD SPECIFICATIONS, LATEST EDITION.



TORRADO ARCHITECTS

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No. 6749
REGISTERED PROFESSIONAL ENGINEER
CIVIL
4/16/09

35 GREENWICH ST.
PROVIDENCE, RI 02907
401.781.0633 P
401.781.0661 F



KEY PLAN

ADDITION AND RENOVATIONS TO:

SCITUATE MIDDLE SCHOOL/ HIGH SCHOOL

94 TRIMTOWN ROAD
NORTH SCITUATE, RI 02857

SITE DETAILS-III

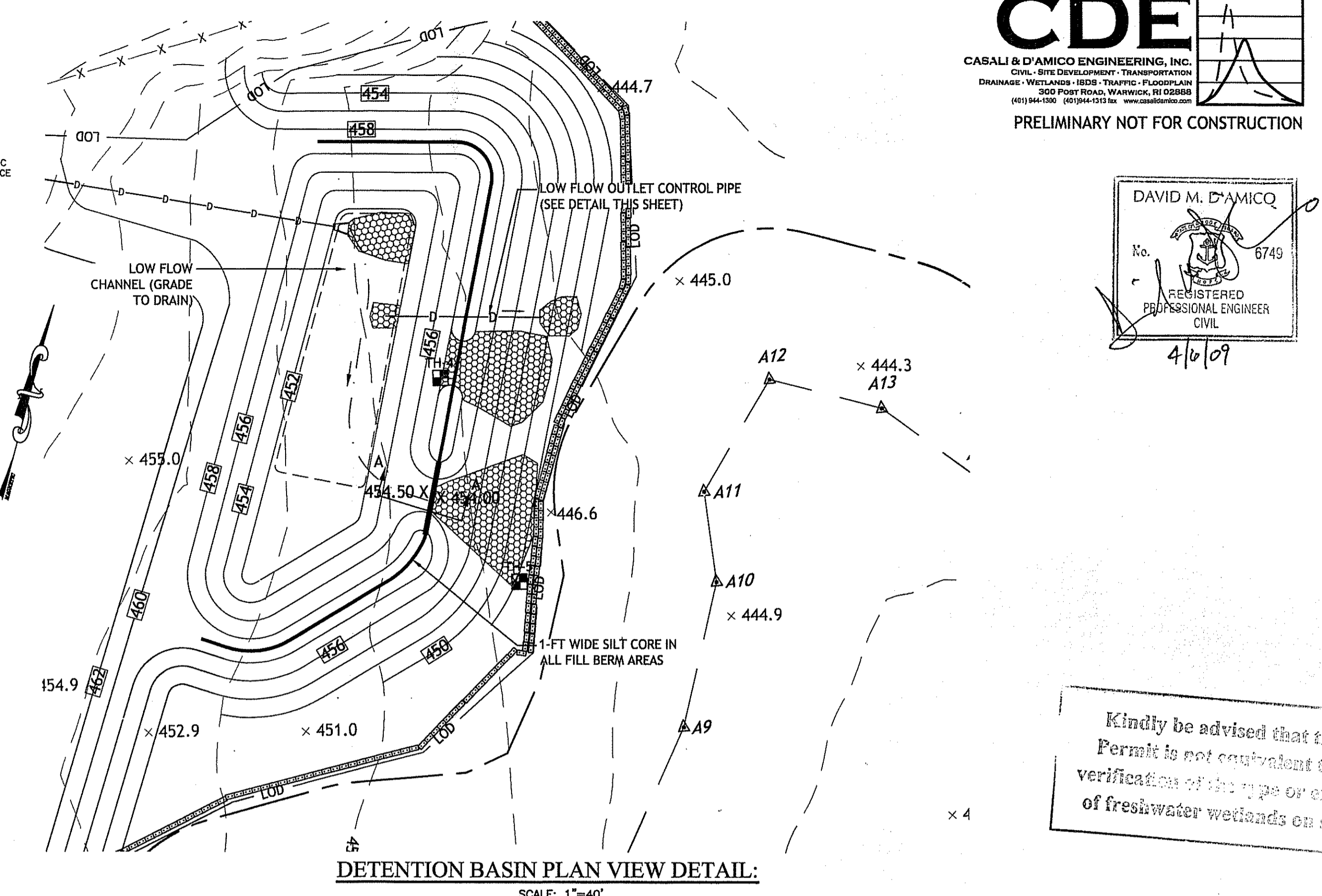
4.8.08 1 RIDEM PLAN RESIZE

DATE: REV. # DESCRIPTION

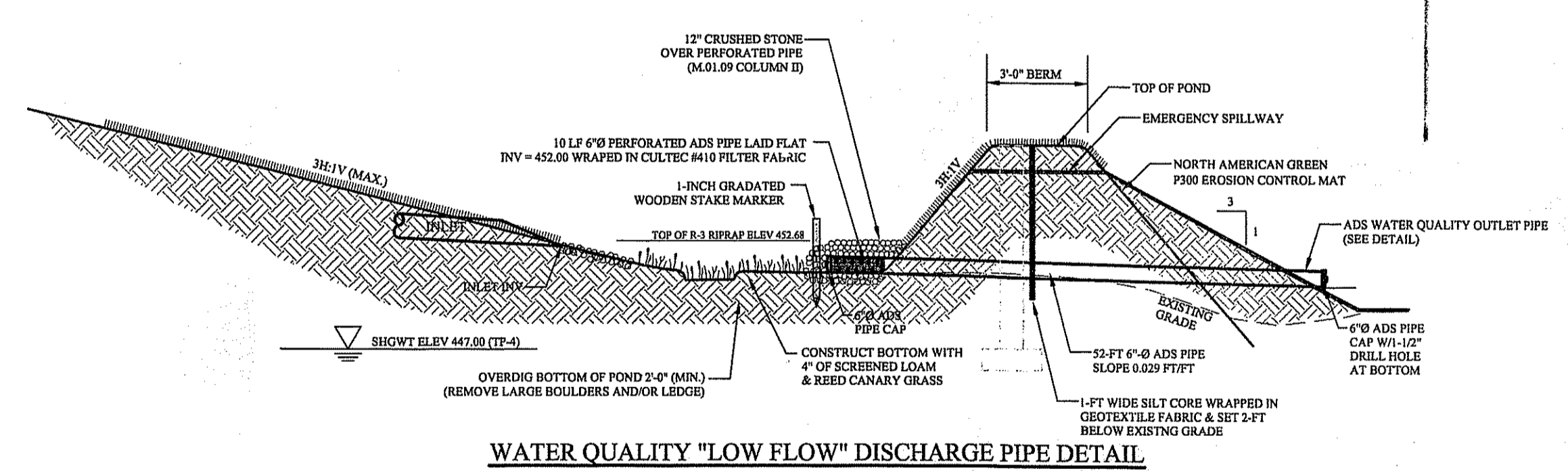
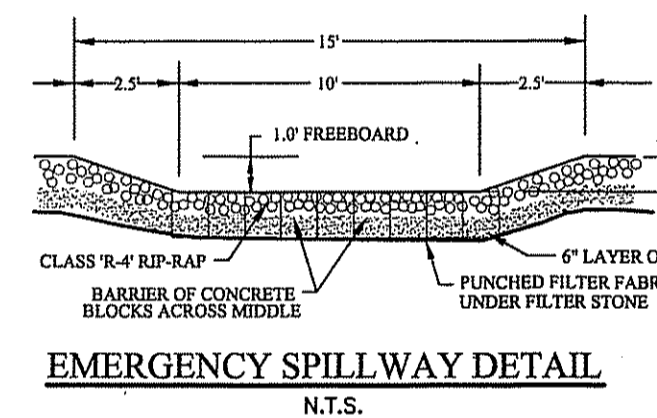
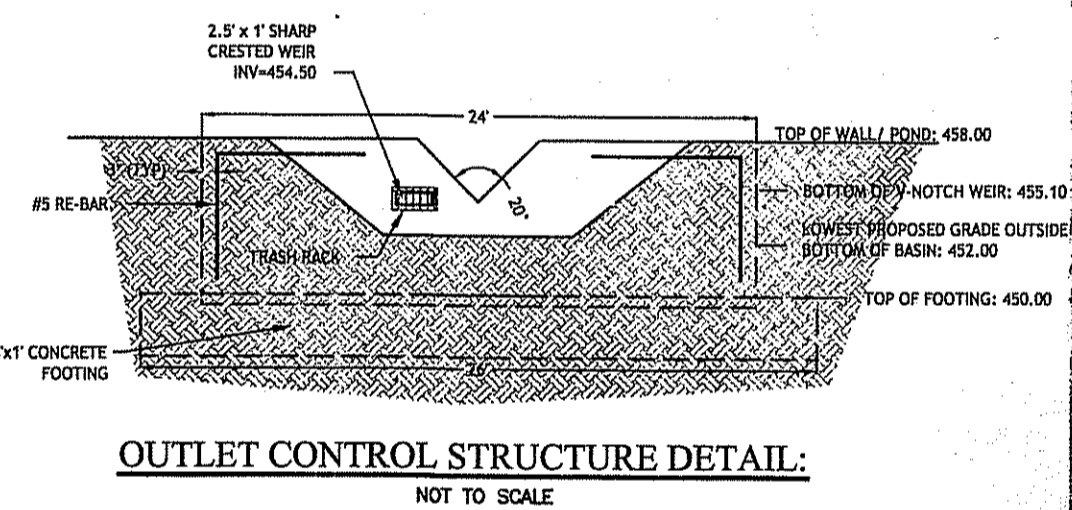
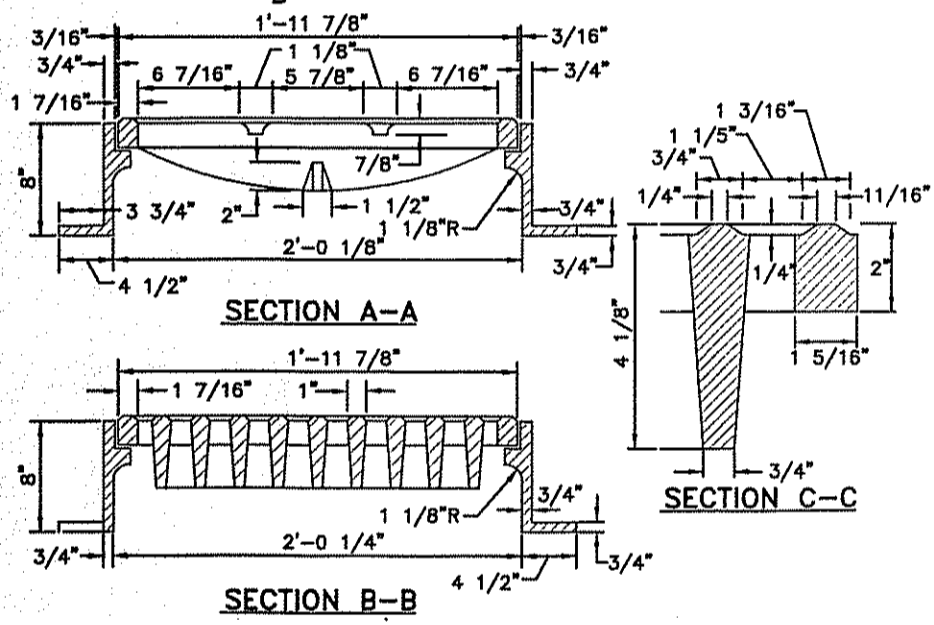
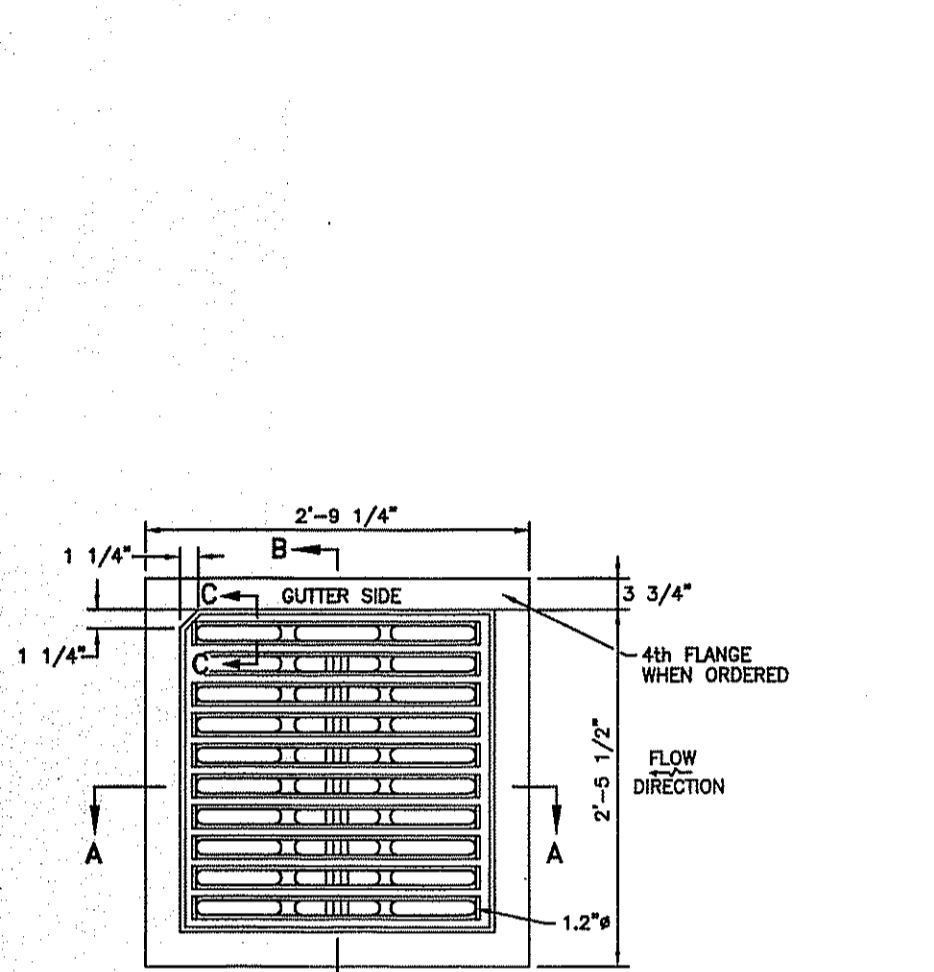
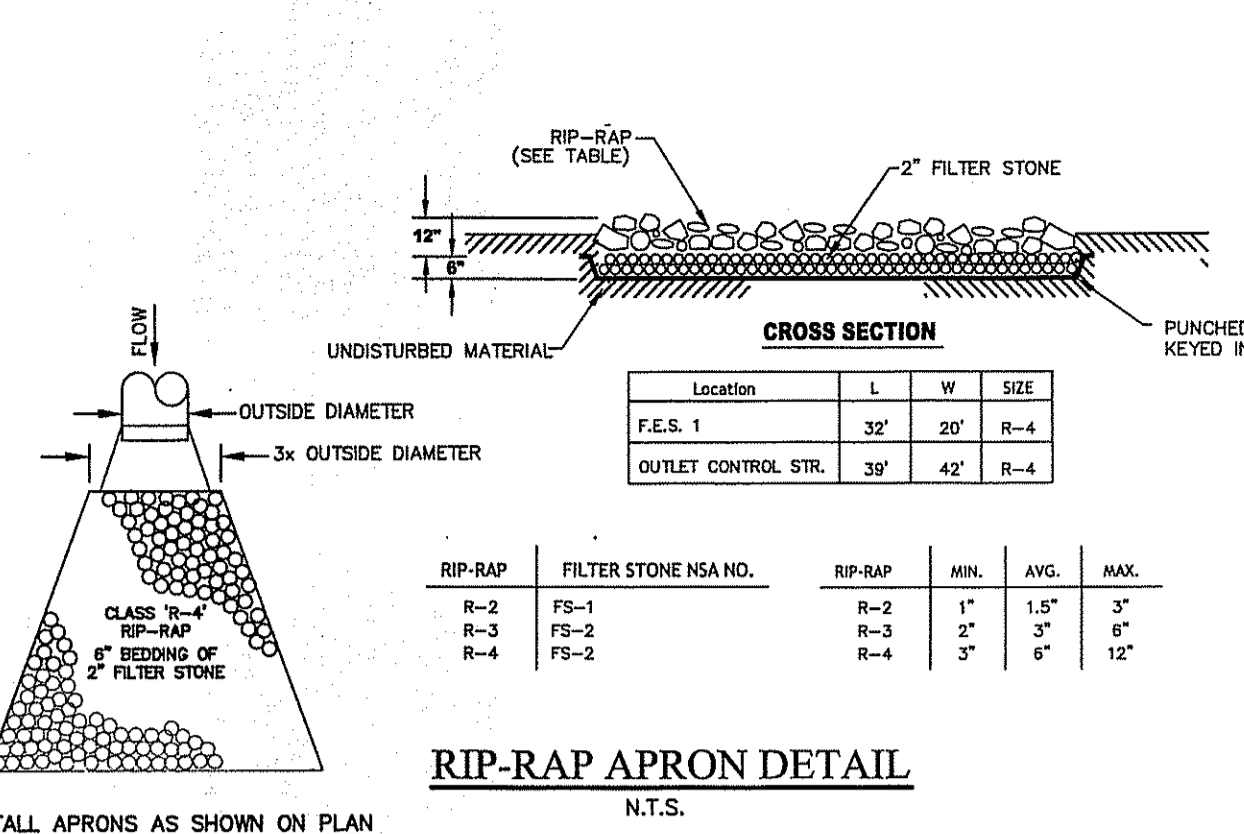
REVISIONS:
RIDEM PERMIT SET
DATE: MARCH 2009
DRWN: WMLUR/JEA
SCALE: AS NOTED
CHECKED BY: DJMD

C.9

SHEET 10 OF 10

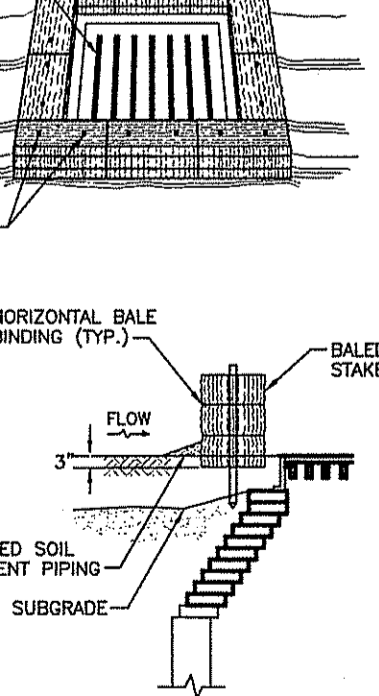


Kindly be advised that this Permit is not equivalent to verification of the type or extent of freshwater wetlands on site.



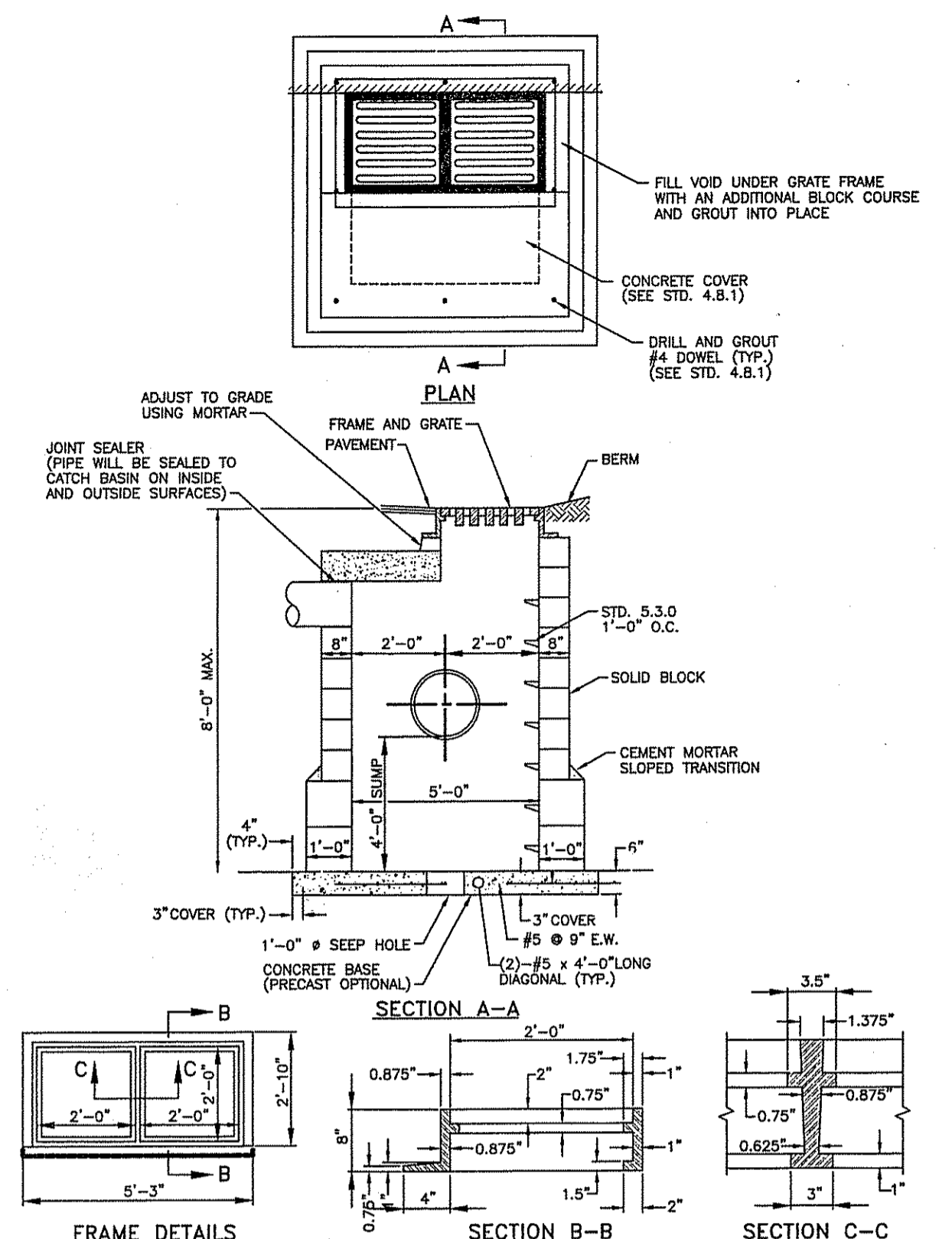
Description	Flood
Top of Pond Elevation	458.00
100 Year Storm Elevation	457.66
25 Year Storm Elevation	456.83
10 Year Storm Elevation	456.29
2 Year Storm Elevation	455.31
Water Quality Volume Elev.	454.20
Emergency Spillway Elev.	457.54
Sediment Forbay Elev.	451.50
Bottom of Pond	452.00

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 12 2009 FILE # 09-0076
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION
Charles H. Horbert



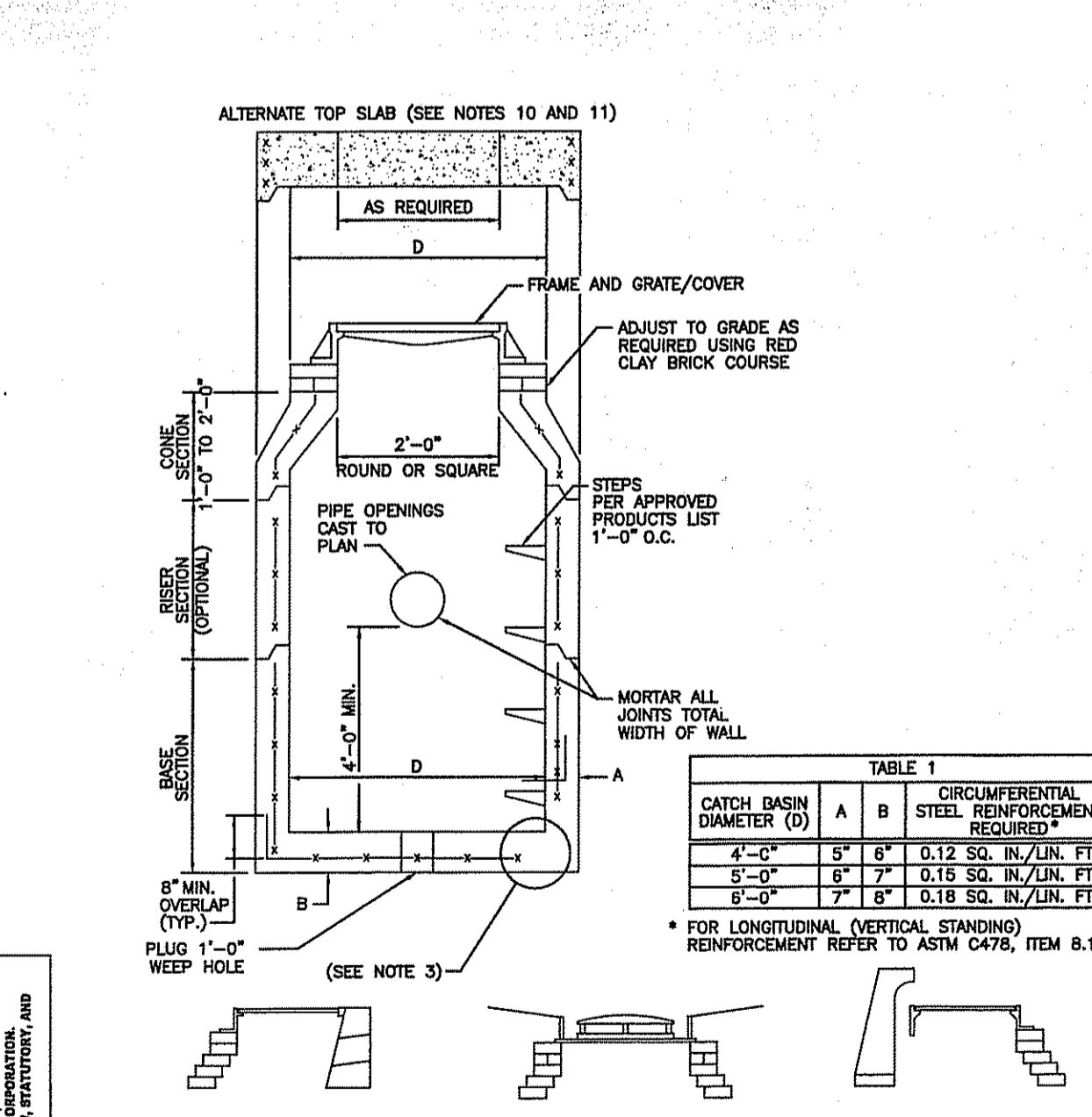
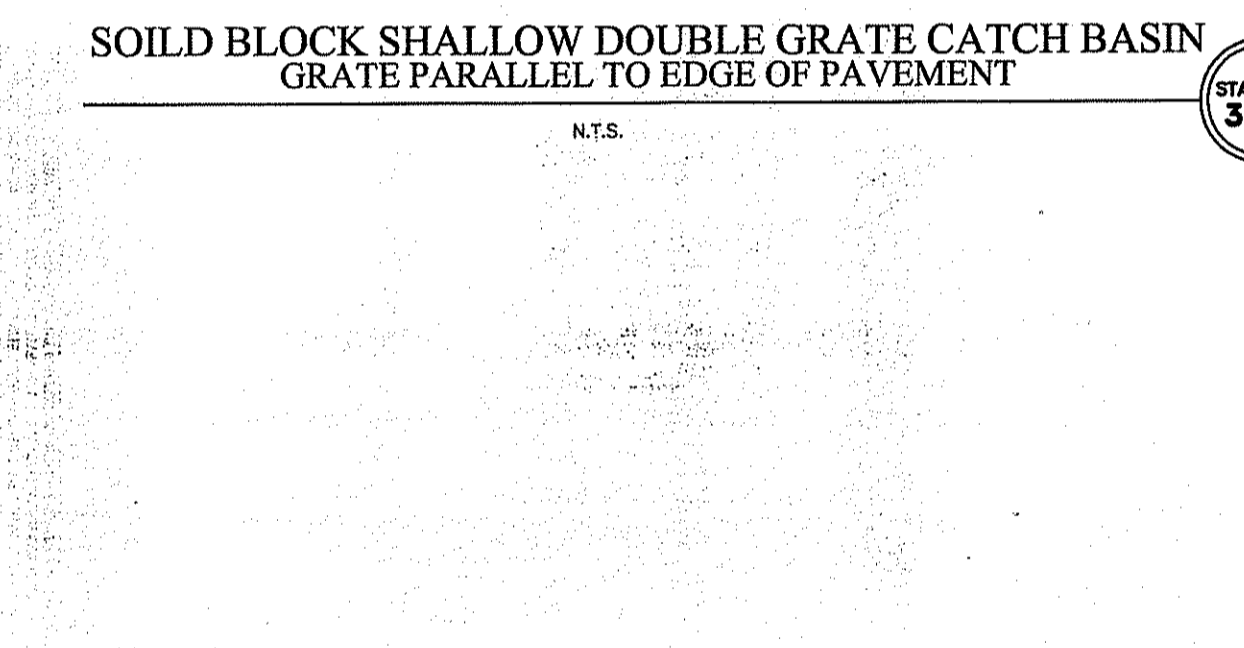
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 209 OF THE R.I. STANDARD SPECIFICATIONS.
2. THIS INLET PROTECTION CAN ALSO BE USED WHEN CONSTRUCTION SEQUENCING REQUIRES A CATCH BASIN TO BE EXPOSED TO SEDIMENT FROM THE SUBGRADE. THIS WILL BE ACHIEVED BY INSTALLING THE BALED HAY AS SHOWN ON THIS DETAIL INTO THE SUBGRADE.
3. THE PERIMETER CONFIGURATION OF THE BALED HAY WILL VARY DEPENDING ON THE PARTICULAR TYPE OF CATCH BASIN INLET BEING CONSTRUCTED. THE ENGINEER WILL PROVIDE SPECIFIC DIRECTION IN SUCH CASES.

R.I. STANDARD 9.8.0



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

R.I. STANDARD 3.5.3



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. STEPS SHALL CONFORM TO STD. S.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
5. ONE FOUR MONOLITHIC BASE SECTION.
6. 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.
7. CORSEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONC SECTION" OF THE 4'-0" CATCH BASIN ONLY.
8. FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
9. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
10. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
12. REFER TO STD. S.3.0 FOR MAXIMUM PIPE SIZES.

R.I. STANDARD 4.4.0(M)

PRECAST 4'-0", 5'-0" OR 6'-0" ROUND CATCH BASIN
N.T.S.

ALL DRAWINGS, PLANS, SPECIFICATIONS, CONTRACTS, NOTES, FIELD NOTES, AND ALL OTHER DOCUMENTS SHALL BE THE PROPERTY OF CASALI & D'AMICO ENGINEERING, INC. AND SHALL BE KEPT IN THE OFFICE OF THE ENGINEER. NO PARTS OF THESE DOCUMENTS ARE TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF CASALI & D'AMICO ENGINEERING, INC.