

GENERAL NOTES

- 1. ALL WORK AND MATERIALS SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AMENDED MARCH 2018 WITH ALL REVISIONS AND ADDENDA, THE RHODE ISLAND STANDARD DETAILS, JUNE 21, 2019 EDITION WITH ALL REVISIONS, THE 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLY DESIGN, WITH THE LATEST REVISIONS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), WITH LATEST REVISIONS, AND THE MUNICIPALITY AND UTILITY OWNER REQUIREMENTS.
2. THE CONTRACTOR SHALL COMPLY WITH THE SAFETY PROVISIONS OF ALL LAWS, RULES, CODES, AND REGULATIONS APPLICABLE TO THE TYPE OF WORK BEING PERFORMED.
3. IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED FOR THIS WORK BY THE STATE INCLUDING BUT NOT LIMITED TO RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND RHODE ISLAND DEPARTMENT OF TRANSPORTATION AND THE MUNICIPALITY IN WHICH WORK IS BEING PERFORMED PRIOR TO THE START OF ANY WORK.
4. CONTRACTOR SHALL KEEP A COPY OF ALL APPROVALS ON-SITE DURING CONSTRUCTION. CONTRACTOR SHALL READ ALL APPROVALS PRIOR TO START OF CONSTRUCTION AND SHALL CLARIFY ANY QUESTIONS BEFOREHAND. CONSTRUCTION APPROVALS SHALL INCLUDE BUT NOT LIMITED TO THE APPROVALS FROM THE LOCAL MUNICIPALITY, THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ANY OTHER AGENCY HAVING APPROVAL JURISDICTION OVER THE PROJECT.
5. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE AND OR REMOVED OFFSITE TO AN APPROPRIATE FACILITY.
6. ALL EXCESS SOILS, BOULDERS, STUMPS AND OTHER MATERIALS SHALL BE DISCARDED OFFSITE IN AN ACCEPTABLE MANNER TO ALL STATE, AND MUNICIPAL REGULATIONS. ALL MATERIALS THAT ARE REMOVED AND DISPOSED SHALL BE DONE IN A LEGAL MANNER AND FOLLOW THE SOIL EROSION CONTROL PLAN.
7. IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO DOCUMENT EXISTING CONDITIONS OF SURROUNDING PROPERTIES AND TO MAINTAIN THE INTEGRITY OF THE SAME. ANY DAMAGE TO AND THE COST OF REPAIR OF UTILITIES, ROADWAYS, STRUCTURES AND SURROUNDING PROPERTY SHALL BE FULLY BORNE BY THE CONTRACTOR.
8. AT NO TIME ARE BLASTING ACTIVITIES ALLOWED WITHOUT AN APPROVED PERMIT.
9. EXISTING CONDITIONS AND PROPERTY LINE INFORMATION (CLASS 1 SURVEY) OBTAINED FROM LEDDY LAND SURVEYING CO., RICHARD LEDDY, PLS: LICENSE #1940; COA #LS-A406

UTILITY NOTES

- 1. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IN ADDITION TO CONTACTING DIG SAFE AT 811 OR 888-DIG-SAFE (888-344-7233) AT LEAST 72 BUSINESS HOURS (3 BUSINESS DAYS) PRIOR TO ANY EXCAVATION AS DEFINED BY RI STATE LAW 39-1.2-1. THIS DOES NOT INCLUDE WEEKENDS AND LEGAL HOLIDAYS. ONCE NOTIFIED DIG SAFE WILL CONTACT MEMBER UTILITIES TO COME TO THE SITE AND MARK UNDERGROUND UTILITY WIRES, CABLES AND PIPELINES.
DIG SAFE MEMBER UTILITY COMPANIES ARE RESPONSIBLE TO MARK ONLY THE FACILITIES THAT THEY OWN OR MAINTAIN. NON-DIG SAFE MEMBER COMPANIES ARE NOT NOTIFIED BY DIG SAFE. NON-MEMBER UTILITIES MAY NOT BE OWNED OR MAINTAINED BY MEMBER UTILITY COMPANIES; THEREFORE THEY ARE UNABLE TO LOCATE THEM. IT IS CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE IF ANY PRIVATELY OWNED OR NON DIG SAFE MEMBER UTILITIES ARE IN THE AREA.
2. ALL EXISTING UTILITIES ARE FROM VISIBLE INFORMATION, DRAWINGS FROM OTHERS, OR INFORMATION PROVIDED. ALL ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND DISSAFE. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY, LOCATE, AND PROTECT EXISTING UTILITIES IN THE FIELD WHETHER OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE ALL UTILITIES WITH THE APPROPRIATE UTILITY COMPANIES.
3. THE CONTRACTOR SHALL CONTACT ALL THE UTILITY COMPANIES, THE MUNICIPAL PUBLIC WORKS DEPARTMENT, FIRE DEPARTMENT AND THE DEPARTMENT OF TRANSPORTATION FOR VERIFICATION OF APPROVED LOCATIONS SHOWN HEREON PRIOR TO THE START OF CONSTRUCTION. IF ANY DISCREPANCIES ARE NOTED, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR A RESOLUTION.
4. CONTRACTOR SHALL OBTAIN REQUIRED INSPECTION SCHEDULE OF THE MUNICIPALITY, UTILITY COMPANIES AND ALL OTHER REQUIRED PARTIES AND SHALL STRICTLY ADHERE TO THOSE REQUIREMENTS.
5. UTILITY CONTRACTOR SHALL OBTAIN APPROVALS OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THE PROJECT PRIOR TO INSTALLATION.
6. UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR ALL UTILITY FEES REQUIRED.
7. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE UTILITY AND MUNICIPAL SPECIFICATIONS.
8. ALL WATER AND SANITARY LEADS TO BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END.
9. ALL UNDERGROUND UTILITIES AND STORAGE FACILITIES MUST BE AS-BUILT FOR LOCATION AND MEDIA DEPTH IN ACCORDANCE WITH THE UTILITY COMPANY SPECIFICATIONS.
10. ALL REMAINING EXISTING CATCH BASINS, DRAIN PIPING, & ASSOCIATED STORM DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS TO BE CLEANED & FLUSHED PRIOR TO COMPLETION OF THE PROJECT.
11. ALL SEWER WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE TOWN OF JOHNSTON AND THE NARRAGANSETT BAY COMMISSION.

GRADING NOTES

- 1. ANY CHANGES TO THE GRADES AS SHOWN ON THE GRADING & EROSION CONTROL PLANS BY THE DEVELOPER OR ANY INDIVIDUAL PROPERTY OWNER REQUIRES SUBMISSION OF THE NEW EROSION AND GRADING PLAN TO THE BUILDING DEPARTMENT AS WELL AS THE TOWN ENGINEER FOR DETERMINATION OF APPLICABILITY AND APPROVAL. APPROVAL OF HOW CHANGES IMPACT THE APPROVED GRADING, DRAINAGE, AND UTILITY PLANS OF THE SUBDIVISION. SAID REVIEW WILL ALSO CONSIDER THE PROVISIONS OF CHAPTER 45-46 OF GENERAL LAWS OF RI AND JOHNSTON ORDINANCE 2005-28 (ADOPT 2-13-2006); THE SUBMISSION OF THE REFERENCED PLANS IS REQUIRED WITH THE SUBMISSION OF THE INDIVIDUAL PERMIT APPLICATION DURING HOUSE CONSTRUCTION AND/OR ANY LATER LANDSCAPING OR ALTERATION TO THE TOPOGRAPHY OF THE PROPERTY.
2. ANY REQUIRED RETAINING WALLS AND STEEP SLOPES ARE SUBJECT TO FINAL STRUCTURAL DESIGN. RA CATALDO & ASSOCIATES INC. IS NOT PROVIDING THE STRUCTURAL DESIGN OF THIS ITEMS. ALL WALLS AND STEEP SLOPES ARE TO BE DESIGNED AND BUILT UNDER DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO CONSTRUCTION. FINAL STRUCTURAL DESIGN MUST INCORPORATE THE INTENT OF THE GRADING SHOWN ON THESE PLANS AND ALL WORK MUST BE WITHIN THE LIMIT OF DISTURBANCE SHOWN ON THE PLANS.

GRADING NOTES (CONTINUED)

- 3. ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE APPLICANT AT THE COMPLETION OF THE PROJECT. RA CATALDO & ASSOCIATES INC. IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.

EROSION CONTROL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ON-SITE. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE PUBLIC WORKS DIRECTOR, THE MUNICIPAL ENGINEER & RIDEM, AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
2. INSTALLATION OF ALL EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTHWORK BEGINS. THIS SHALL BE DONE IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (AS AMENDED) AND/OR THE RI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (AS AMENDED). UPON ACCEPTABLE COMPLETION OF SITE PREPARATION AND INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, SITE CONSTRUCTION ACTIVITIES MAY COMMENCE.
3. ALL EXPOSED SLOPES, INCLUDING STOCKPILES OF MATERIAL, SHALL RECEIVE TEMPORARY SEDIMENTATION AND EROSION CONTROLS. THIS WILL INCLUDE LOAMING AND SEEDING, MULCHING, HAYMATS, ETC., TO STABILIZE THE AREA.
4. ALL EROSION CONTROL, DIVERSIONS, TEMPORARY SEDIMENTATION TRAP, ETC. SHALL BE INSTALLED AND MAINTAINED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION.
5. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISHED GRADES AND ENSURING SURFACE WATER FLOWS TOWARDS SEDIMENTATION BARRIERS. ALL EXISTING PAVEMENT ELEVATIONS TO BE FIELD VERIFIED PRIOR TO PAVEMENT ACTIVITIES.
6. ANY LOCATION OF CONCRETE WASHING OR EQUIPMENT WASHING OPERATIONS MUST BE APPROVED BY THE OWNER PRIOR TO COMPLETING SUCH ACTIVITIES.
7. CONTRACTOR TO PERFORM DAILY HOUSEKEEPING ON-SITE. CONTRACTOR SWEEP DAILY AND TRACKING ONTO A SUITABLE AREA TO PREVENT FROM ENTERING THE DRAINAGE SYSTEM.
8. ROUTINE INSPECTION AND MAINTENANCE AND/OR MODIFICATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES WHILE EARTHWORK IS UNDERWAY ARE REQUIRED. REMOVAL OF TEMPORARY EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES SHALL BEGIN AFTER FINAL SITE STABILIZATION OF ANY DISTURBED AREAS AFTER ALL EARTHWORK HAS BEEN COMPLETED.
9. THE CONTRACTOR IS RESPONSIBLE FOR: SOIL EROSION AND SEDIMENT CONTROL ON-SITE. SURVEY AND STAKE (ALL STAKES SHALL BE LABELED) THE SEDIMENTATION CONTROLS, AND LIMIT OF DISTURBANCE. ALL TEMPORARY SOIL EROSION CONTROLS SHALL BE INSTALLED, INCLUDING COMPOST FILTER SOCK PROTECTION AT THE DOWN GRADIENT LIMITS OF WORK.
10. PLACE SEDIMENTATION CONTROLS (COMPOST FILTER SOCK PROTECTION) AS SHOWN ON THE SITE PLANS AND STAKE OUT IN THE FIELD. IN NO CASE SHALL THE LIMIT OF WORK EXTEND BEYOND THE SEDIMENTATION BARRIERS. THE SEDIMENTATION BARRIERS SHALL BE PLACED AROUND ALL EXISTING BMPs TO PROTECT THEM FROM CONSTRUCTION TRAFFIC AND STORMWATER RUNOFF. THE EXISTING BMPs SHALL REMAIN PROTECTED FROM CONSTRUCTION STORMWATER RUNOFF UNTIL THE DISTURBED AREAS HAVE FULLY ESTABLISHED AND ARE STABILIZED.

- 11. INLET SEDIMENT CONTROL DEVICES (SILT SACK) SHALL BE ACF ENVIRONMENTAL (800) 448-3636; COMPLETE ENVIRONMENTAL PRODUCTS, INC. (800) 444-4237; ULTRA TECH INTERNATIONAL (800) 764-9563; OR APPROVED EQUAL. THE PROPOSED EQUIVALENT MUST INCLUDE THE FOLLOWING: A METHOD FOR SECURING THE DEVICE IN PLACE, INTERIOR HANDLES FOR USE IN REMOVING THE DEVICE FOR CLEANING, AND A PERMANENT MARKING WHICH INDICATES THE LEVEL OF SEDIMENT ACCUMULATION AT WHICH CLEANING IS REQUIRED.
12. STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBANCE ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION MUST BE COMPLETED USING VEGETATIVE STABILIZATION MEASURES OR USING ALTERNATIVE MEASURES WHENEVER VEGETATIVE MEASURES ARE DEEMED IMPRACTICAL OR DURING PERIODS OF DROUGHT. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15TH SHALL BE SEEDED BY THAT DATE. ANY SUCH AREAS WHICH TO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION SHALL BE SEEDING AND SOIL GILZED THROUGH THE USE OF NON-VEGETATIVE EROSION CONTROL MEASURES. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15TH THROUGH APRIL 15TH, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RE-STABILIZED WITHIN 5 WORKING DAYS. IN LIMITED CIRCUMSTANCES, STABILIZATION MAY NOT BE REQUIRED IF THE INTENDED FUNCTION OF A SPECIFIC AREA OF THE SITE NECESSITATES THAT IT REMAIN DISTURBED.

- 13. CONSTRUCTION SITES MUST BE INSPECTED BY OR UNDER THE SUPERVISION OF THE OWNER AND CONTRACTOR AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT WHICH GENERATES AT LEAST 0.25 INCHES OF RAINFALL PER 24 HOURS PERIOD AND/OR GREATER AFTER A SIGNIFICANT AMOUNT OF RUNOFF. IF AN INSPECTION REVEALS A PROBLEM, THE CONTRACTOR MUST INITIATE WORK TO FIX THE PROBLEM IMMEDIATELY AFTER DISCOVERY OF THE PROBLEM, AND COMPLETE SUCH WORK BY THE CLOSE OF THE NEXT WORK DAY IF THE PROBLEM DOES NOT REQUIRE SIGNIFICANT REPAIR OR REPLACEMENT, OR IF THE PROBLEM CAN BE CORRECTED THROUGH ROUTINE MAINTENANCE.
14. WHEN INSTALLATION OF A NEW CONTROL OR A SIGNIFICANT REPAIR IS NEEDED, SITE OWNER AND CONTRACTOR MUST ENSURE THAT THE NEW OR MODIFIED CONTROL MEASURE IS INSTALLED AND MADE OPERATIONAL BY NO LATER THAN 7 CALENDAR DAYS FROM THE TIME OF DISCOVERY WHERE FEASIBLE. IF ITS UNFEASIBLE TO COMPLETE THE INSTALLATION OF REPAIR WITHIN 7 CALENDAR DAYS, THE REASONS WHY IT IS UNFEASIBLE MUST BE DOCUMENTED IN THE SESC PLAN ALONG WITH THE SCHEDULE FOR INSTALLING THE STORMWATER CONTROL MEASURES AND MAKING IT OPERATIONAL AS SOON AS PRACTICABLE AFTER THE 7-DAY TIMEFRAME. IF CORRECTIVE ACTIONS ARE REQUIRED, THE SITE OWNER AND CONTRACTOR SHALL ENSURE THAT ALL CORRECTIVE ACTIONS ARE DOCUMENTED ON THE INSPECTION REPORT IN WHICH THE PROBLEM WAS FIRST DISCOVERED. CORRECTIVE ACTIONS SHALL BE DOCUMENTED, SIGNED, AND DATED BY THE CONTRACTOR ONCE ALL NECESSARY REPAIRS HAVE BEEN COMPLETED.

- 15. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION AT NO ADDITIONAL COST TO THE OWNER
16. SHOULD SEDIMENTS ENTER A CRITICAL AREA, (WETLAND, BUFFER ZONE, ADJUTING PROPERTY) THE CONTRACTOR SHALL IMMEDIATELY CLEAN AND RESTORE THE AFFECTED AREA.

EROSION CONTROL NOTES (CONTINUED)

- 17. CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECT TO STORMWATER FLOWAGE.
18. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
19. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
20. CATCH BASINS, DETENTION POND AND OTHER DRAINAGE FACILITIES SHALL BE THOROUGHLY PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION. IF SEDIMENTS ENTER FACILITIES DURING CONSTRUCTION, THE STRUCTURES SHALL BE CLEANED AND, IF NECESSARY, REMOVED AND REINSTALLED WITH ALL EXPENSE TO BE BORNE BY CONTRACTOR.
21. RI STANDARD TYPE R-4 RIP-RAP SHALL BE INSTALLED AT THE FLARED END SECTION OUTLETS, UNLESS OTHERWISE NOTED.
22. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
23. ALL CUT AND FILL ACTIVITIES REQUIRING COMPACTION STANDARDS SHALL BE BUILT UNDER THE DIRECTION OF AN ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO COMPLETION OF THE PROJECT.
24. ALL GRADING SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES.
25. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.

LANDSCAPING NOTES

- 1. ALL DISTURBED AREAS ARE TO BE REVEGETATED AS SOON AS POSSIBLE. ALL BANKS AND SLOPING AREAS ARE TO RECEIVE A MINIMUM OF 6" OF CLEAN TOPSOIL, THEN SEED. LEVEL AREAS TO RECEIVE 4" MIN. OF CLEAN TOPSOIL AND SEED.
2. ALL AREAS DISTURBED BY CONSTRUCTION NOT DESIGNATED FOR OTHER TYPE OF SURFACE SHALL BE LOAMED AND SEED. SEED AND PLANT BY SUPPLIERS SPECIFICATIONS. LIME SHALL BE APPLIED AS NECESSARY.
3. USE OF HAY OR STRAW MULCH DURING SLOPE STABILIZATION IN CONJUNCTION WITH TEMPORARY SEEDING. APPLY MULCH AT A RATE OF 75 TO 100 LBS. PER 1000 SQUARE FEET.
4. STOCKPILE ALL STRIPPED TOPSOIL FOR LATER USE. THE LOCATION IS TO BE APPROVED BY THE OWNER OR DESIGNATED AUTHORITY. MULCH AND TEMPORARY SEED THE STOCKPILE.
5. REMOVE ALL ROCKS 3" OR LARGER IN PLANTING AREA.
6. ALL CLEARING SHALL CONFORM TO THE LIMITS AS SHOWN ON PLANS.
7. SEE LANDSCAPE PLANS FOR ADDITIONAL LANDSCAPING REQUIREMENTS AND DETAILS.

SEWER RELATION TO WATER MAINS

- 1. HORIZONTAL SEPARATION: SEWERS SHALL BE LAID AT A MINIMUM OF 10 FEET (3.0m). HORIZONTALLY, FROM ANY EXISTING OR PROPOSED WATER MAIN. SHOULD LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET, A SEWER MAY BE LAID CLOSER THAN 10 FEET TO A WATER MAIN IF:
1.1. IT IS LAID IN A SEPARATE TRENCH, OR IF
1.2. IT IS LAID IN THE SAME TRENCH WITH THE WATER MAINS LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND IF
1.3. IN EITHER CASE THE ELEVATION OF THE TOP (CROWN) OF THE SEWER IS AT THE LEAST 18 INCHES(46cm) BELOW THE BOTTOM (INVERT) OF THE WATER MAIN.
2. VERTICAL SEPARATION: WHENEVER SEWER MUST CROSS UNDER WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES (46 cm) BELOW THE BOTTOM OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENTS, THE SEWER MAIN SHALL BE CONSTRUCTED WITH MECHANICAL-JOINT PIPE FOR A DISTANCE OF 10 FEET (3.0m) ON EACH SIDE OF THE WATER. ONE FULL LENGTH OF WATER MAIN SHOULD BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
3. WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL AND/OR VERTICAL SEPARATION AS STIPULATED ABOVE, THE SEWER SHALL BE CONSTRUCTED OF MECHANICAL-JOINT CEMENT LINED DUCTILE IRON PIPE OR OTHER EQUIVALENT BASED ON WATER TIGHTNESS AND STRUCTURAL SOUNDNESS. BOTH PIPES SHALL BE PRESSURE TESTED BY AN APPROVED METHOD TO ASSURE WATER TIGHTNESS AND THE SEWER MUST BE SLEEVED.
4. WHEN CROSSING A WATER MAIN THE SEWER LINE SHALL BE CONSTRUCTED WITH A 20 FOOT SECTION OF DUCTILE IRON WITH MECHANICAL COUPLINGS AT EACH END FOR 10' ON EITHER SIDE OF THE INTERSECTION OF THE PIPES.

INFILTRATION / DETENTION BASIN MAINTENANCE

- 1. GRASSES MUST BE PLANTED AROUND AND WITHIN THE BASIN IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE THE SLOPES AND PREVENT EROSION.
2. SIDE-SLOPES, EMBANKMENTS, AND THE UPPER STAGE OF THE BASIN MUST BE MAINTAINED AT LEAST DURING THE GROWING SEASON BY AUGUST 15TH. ALL TRASH AND LITTER SHALL BE REMOVED FROM THE BASIN DURING MOWING OPERATIONS.
3. SEDIMENTS MUST BE REMOVED FROM THE BASIN AT TWO YEAR INTERVALS AND AS NECESSARY.
4. THE OUTLET STRUCTURE AND ALL OUTFLOW CHANNELS MUST BE INSPECTED ANNUALLY. EXTENDED DETENTION DEVICES MUST BE INSPECTED AT LEAST TWICE A YEAR. INSPECTIONS DURING THE FIRST SIX MONTHS OF OPERATIONS MUST BE ACCOMPLISHED OFTEN, ESPECIALLY AFTER RAINFALL EVENTS.
5. THE GRASSED AREAS OF THE BASIN MUST BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION. PROBLEM AREAS MUST BE RESEEDED IMMEDIATELY.
6. ALL TRASH AND LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY INCLUDING INLET AND OUTLET STRUCTURES. THIS MUST BE ACCOMPLISHED AT LEAST TWICE A YEAR, PREFERABLY SPRING AND FALL.
7. REPAIRS OR REPLACEMENT OF INLET / OUTLET STRUCTURES, RIP-RAP CHANNELS, OR OTHER ELEMENTS OF THE FACILITY MUST BE DONE WITHIN 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR / REPLACEMENT MUST BE DONE IMMEDIATELY.

CATCH BASIN CLEANING NOTES

- 1. INSPECTIONS OF ALL CATCH BASINS ON-SITE SHALL OCCUR ON AN ANNUAL BASIS TO CHECK FOR DEBRIS REMOVAL (SEDIMENT AND HYDROCARBONS) AND STRUCTURAL INTEGRITY OR DAMAGE. SUCH DEFICIENCIES MUST BE CORRECTED IMMEDIATELY.
2. SEDIMENTS MUST BE REMOVED FROM CATCH BASINS WHEN SUMPS ARE HALF FILLED AND/OR AT TWO YEARS INTERVALS.
3. ALL TRASH AND LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY CATCH BASIN INCLUDING INLET AND OUTLET STRUCTURES. THIS MUST BE ACCOMPLISHED AT LEAST TWICE A YEAR, PREFERABLY SPRING AND FALL.
4. COMPOST FILTER SOCKS SHALL BE PLACED AROUND CATCH BASINS DURING CONSTRUCTION TO STOP DEBRIS FROM ENTERING SUMP AND DRAIN PIPES. ACCUMULATED SEDIMENTS SHALL BE REMOVED FROM ALL CATCH BASINS AND STORM DRAIN PIPES IMMEDIATELY AFTER SITE STABILIZATION.
5. THE SITE OWNER WILL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF ALL CATCH BASINS AND OTHER DRAINAGE STRUCTURES UPON ACCEPTANCE OF THE WORK.

SHORT TERM MAINTENANCE PLAN

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING, PROTECTING AND MAINTAINING ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR CURRENTLY EXPOSED. THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEEDING AREAS TO SEE THAT AN ADEQUATE COVER IS MAINTAINED.
2. THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN A PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
3. ALL COMPOST FILTER SOCKS, TEMPORARY TREATMENTS (HAY, STRAW, ETC.) AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE GROUND COVER IS ESTABLISHED.
4. THE CONTRACTOR SHALL MAINTAIN ALL TOPSOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER.
5. THE COMPOST FILTER SOCKS OR SILT FENCE SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM EVENT FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE THE COMPOST FILTER SOCKS AS NECESSARY. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE COMPOST FILTER SOCKS BECOMES FILLED WITH SEDIMENTS.
6. THE CONTRACTOR SHALL INSPECT RIPRAP AREAS AFTER EACH STORM AND REPAIR AS NECESSARY.
7. THE CONTRACTOR SHALL MAINTAIN THE DRAINAGE SYSTEM THROUGHOUT CONSTRUCTION. THE ACCUMULATED SEDIMENTS IN THE CATCH BASINS SHALL BE REMOVED AND DRAINAGE PIPES FLUSHED BY THE CONTRACTOR AT THE END OF CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE PROGRAM DURING THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL SEE THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
9. THE CONSTRUCTION OF THE DRAINAGE SYSTEM SHALL BE SUPERVISED BY THE OWNER OR DESIGNATED AUTHORITY. A REPORT AND AS-BUILT PLAN SHALL BE MADE AVAILABLE TO THE OWNER UPON REQUEST.

LONG TERM MAINTENANCE PLAN

- 1. THE SITE OWNER SHALL BE RESPONSIBLE FOR ALL PHASES OF THE LONG TERM MAINTENANCE OF THE DRAINAGE SYSTEM AND VEGETATIVE COVER. THEY SHALL ALSO BE RESPONSIBLE FOR THE LONG-TERM MAINTENANCE OF ALL COMPONENTS OF THE DRAINAGE SYSTEM. THE DRAINAGE SYSTEM SHALL BE CHECKED SEMI-ANNUALLY.
2. INSPECTIONS DURING THE FIRST SIX MONTHS OF OPERATIONS MUST BE ACCOMPLISHED OFTEN, ESPECIALLY AFTER RAINFALL EVENTS. THE SITE OWNER SHALL BE RESPONSIBLE FOR THE INSPECTION OF ALL RIP RAP AREAS AND PIPE OUTLETS ON AN ANNUAL BASIS AND FOLLOWING ALL MAJOR STORM EVENTS. REPAIRS SHALL BE UNDERTAKEN AS CONDITIONS WARRANT.
3. THE SITE OWNER SHALL BECOME RESPONSIBLE FOR THE MAINTENANCE OF THE DRAINAGE FACILITY UPON ACCEPTANCE. THEY SHALL BE RESPONSIBLE FOR MAINTAINING SUFFICIENT VEGETATIVE COVER (GRASS BETWEEN 2"-10" OR VEGETATION AS SPECIFIED).
4. THE SITE OWNER SHALL BE RESPONSIBLE FOR THE SEMI-ANNUAL INSPECTION OF THE GRASSED AREAS FOR EROSION PROBLEMS. PROBLEM AREAS MUST BE RESEEDED IMMEDIATELY TO STABILIZE EXPOSED SOILS, THEREBY PREVENTING EROSION AND POTENTIAL CLOGGING OF OUTFLOW STRUCTURES.
5. AT PROJECT COMPLETION AND ACCEPTANCE BY THE OWNER, THEY SHALL BECOME RESPONSIBLE FOR OVERALL IMPLEMENTATION OF THE MAINTENANCE PROGRAM. THIS SHOULD BE ACCOMPLISHED ON A SEMI-ANNUAL BASIS, PREFERABLY SPRING AND FALL.
6. THE SITE OWNER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TRASH, LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY.
7. THE SITE OWNER WILL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF ALL CATCH BASINS, DETENTION POND AND OTHER DRAINAGE STRUCTURES.
8. SEDIMENTS MUST BE REMOVED FROM THE SEDIMENT FORBAY WHEN SEDIMENTS ACCUMULATED MORE THAN 1.0 FEET DEPTH, AND/OR TWO YEARS INTERVALS.
9. THE PARTY RESPONSIBLE FOR INSPECTION OF ANY COMPONENT OF THE DRAINAGE SYSTEM SHALL, WHERE APPLICABLE, COMPLETE A REPORT OUTLINING ANY DEFICIENCIES DISCOVERED DURING INSPECTION. IF THERE ARE ANY DEFICIENCIES, THE SITE OWNER SHALL BE RESPONSIBLE FOR REMEDYING THE SITUATION WITHIN THIRTY DAYS. IF AN EMERGENCY SITUATION IS IMMINENT THEN IMMEDIATE MEASURES MUST BE TAKEN TO REMEDY THE SITUATION TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.
10. THE MUNICIPAL ENGINEER OR DEPARTMENT OF PUBLIC WORKS, UPON REQUEST, RESERVES THE RIGHT TO INSPECT SAID DRAINAGE FACILITIES AND REQUEST RECORDS OF MAINTENANCE, ANNUALLY.
11. FOR INFILTRATION BASIN (BOTTOM OF THE BASIN) THE CAPACITY OF A BASIN WILL DECREASE REQUIRING DEEP TILLING OF THE BASIN FLOOR EVERY SEVERAL YEARS (5-10) TO RESTORE THE ORIGINAL INFILTRATION RATE. TILLING SHOULD BE DONE WHEN THERE IS AN OBVIOUS LOSS OF INFILTRATION, ESPECIALLY WHEN STANDING WATER IS PRESENT IN THE POND FOR MORE THAN 72 HOURS AFTER A RAINFALL EVENT. TILLING CAN BE ACCOMPLISHED WITH A ROTARY TILLER OR DISC HARROW. IN SOME CASES THE ADDITION OF SAND WILL ASSIST IN RESTORING INFILTRATION CAPACITY. AFTER TILLING, BASIN FLOORS MUST BE RESEEDED IMMEDIATELY TO PREVENT EROSION OF THE BASIN BOTTOM.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 2022 FILE # 21-0243
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Handwritten signature: Nancy L. Freeman

INFILTRATION / DETENTION BASIN CONSTRUCTION NOTES

- 1. BASIN EMBANKMENT AREAS ADJACENT TO OUTLET STRUCTURE ARE TO BE CONSTRUCTED WITH COMMON BORROW COMPACTED TO 95% IN ONE FOOT LIFTS AND THEN LOAMED AND SEED.
2. TREES AND SHRUBS SHALL NOT BE PLANTED ON ANY IMPOUNDING EMBANKMENT.
3. BOTTOM AND SIDES ARE TO BE LOAMED WITH A MINIMUM OF 6" AND SEED. WITH A CONSERVATION TYPE MIXTURE.
4. ALL PIPE ANTI-SEEP COLLARS, TRASH RACKS, FLARED END SECTIONS, JOINTS, GASKETS, FITTINGS, ETC. SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER'S SPECIFICATIONS.
5. FOR OVERALL SITE DEVELOPMENT DURING CONSTRUCTION THE ENTIRE AREA OF THE PROPOSED BASIN SHOULD BE FENCED OFF TO PREVENT COMPACTION OF THE UNDERLYING SOILS BY HEAVY EQUIPMENT. THE BASIN SHOULD BE EXCAVATED WITH LIGHT EARTH-MOVING EQUIPMENT TO PREVENT COMPACTION OF SOILS BENEATH THE BASIN FLOOR OR SIDE SLOPES. LIGHT EARTH-MOVING EQUIPMENT DOES NOT INCLUDE BULLDOZERS OR STANDARD SIZE PAY-LOADERS.
6. THE ENTIRE BASIN MUST BE STABILIZED WITH A DENSE LAYER OF GRASS FOLLOWING BASIN CONSTRUCTION. AT BASIN BOTTOM AND SIDE SLOPES WHERE INFILTRATION OCCURS, THE INSTALLER MUST APPLY 6" PERMEABLE LOAM SOIL AND TURF TYPE TALL FESCUES OR REED CANARY GRASSES WITH FILTER FABRIC BEDDING MATERIAL TO PROMOTE GOOD VEGETATIVE GROWTH AND INFILTRATION.
7. ALL CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE "RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK".
8. BASIN OUTLET PIPE SHALL BE EQUIPPED WITH ANTI-SEEP COLLARS.

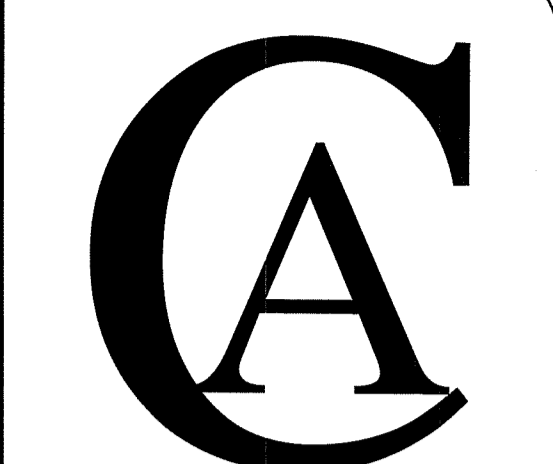
TRAFFIC CONTROL NOTES

- 1. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009, INCLUDING ALL REVISIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY CONSTRUCTION SIGNS, BARRICADES, AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
3. THE CONTRACTOR SHALL USE POLICE OFFICERS TO FACILITATE PEDESTRIAN CROSSINGS AS REQUIRED WHEN WORK ZONES IMPACT PEDESTRIAN ROUTES.
4. THE CONTRACTOR SHALL COORDINATE WITH THE RIPTA PRIOR TO ANY BUS STOP IMPACTS.
5. ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, LATEST EDITION.
6. THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
7. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
8. POLICE OFFICERS (AND NOT FLAGPERSONS) SHALL BE UTILIZED WHEN WORK WILL IMPACT SIGNALIZED INTERSECTIONS AND LIMITED ACCESS HIGHWAYS.
9. POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
10. ARROW PANELS SHALL BE SET IN THE FLASHING FOUR CORNERS CAUTION MODE UNLESS UTILIZED FOR A MERGING TAPER. ARROW PANELS SET IN THE FLASHING ARROW MODE SHALL NOT BE UTILIZED FOR LANE SHIFTS.
11. TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED UNDER THE PAY ITEM FOR "MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION."
12. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR SHOULDERS. THEY MAY BE PARKED WITHIN THE STATE RIGHT-OF-WAY ONLY IN AREAS 30' BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.
13. TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
14. THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. WATERBORNE PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD-PLANNED AND NEW ROADWAY SURFACES THAT WILL BE OPEN TO TRAFFIC AT THE END OF THE SHIFT.

ORDER OF PROCEDURE

- 1. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING OPERATION AND PRIOR TO ANY ROUGH GRADING, TEMPORARY COMPOST FILTER SOCKS OR SANDBAGS SHALL BE PLACED OUTSIDE THE LIMITS OF CONSTRUCTION AS PER THE PLANS (I.E. ALONG NEW ROADWAYS, STREAM BANKS, CRITICAL AREAS, ETC.). REFER TO THE PLANS FOR EROSION CONTROL DETAILS AND THEIR PLACEMENT.
2. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
3. IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.
4. TEMPORARY COMPOST FILTER SOCKS AND SANDBAGS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.

PLAN INDEX:
THIS PLAN IS TO BE INDEXED UNDER THE FOLLOWING STREETS:
GRANITE STREET
ABATECOLA WAY
ROCKCREST LANE
GENOA AVENUE
PICO CIRCLE



RA CATALDO & ASSOCIATES INC.
CIVIL ENGINEERS
LAND SURVEYORS

114 SMITHFIELD AVENUE (401) 453-3300
PAWTUCKET, RI 02860 FAX: (401) 453-4117
ca@cataldoeng.com

Project:

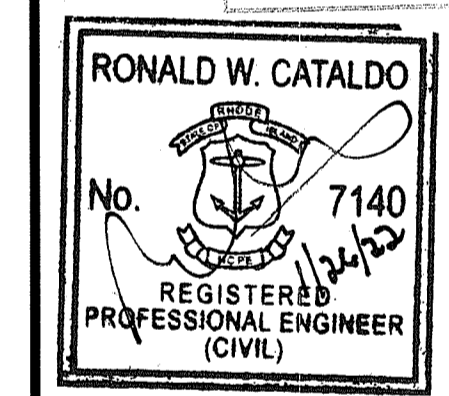
CHERRY BLOSSOM ESTATES

MAP 5 LOT 338 PICO CIRCLE

Prepared For:

ABATECOLA REALTY ASSOCIATION, LLC

300 MORGAN AVE. JOHNSTON, RI 02919



Issue Date: 11/12/2021

Table with 3 columns: No., Date, Description. Header: Revisions. Content: Empty table rows.

Project Number: 3066-05

Scale: AS NOTED

Designed By: MAY

Drawn By: RAC Checked By: RWC

Sheet Title:

GENERAL NOTES

C-2

Sheet Number: 2 of 14

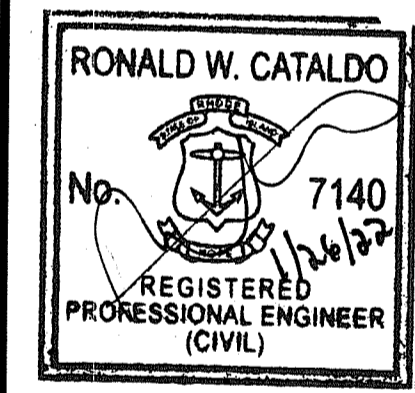
PRELIMINARY SUBMISSION



RA CATALDO & ASSOCIATES INC.
CIVIL ENGINEERS
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114 SMITHFIELD AVENUE (401) 453-3300
PAWTUCKET, RI 02860 FAX: (401) 453-4117
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Project:
**CHERRY BLOSSOM
ESTATES**
MAP 5 LOT 338
PICO CIRCLE

Prepared For:
**ABATECOLA REALTY
ASSOCIATION, LLC**
300 MORGAN AVE.
JOHNSTON, RI 02919



Issue Date: 11/12/2021

Revisions		
No.	Date	Description
1	1/18/22	RIDEM COMMENTS

Revisions		
No.	Date	Description
1	1/18/22	RIDEM COMMENTS

Project Number: 3066-05
Scale: AS NOTED
Designed By: MAY
Drawn By: RAC Checked By: RWC
Sheet Title:

**GRADING,
DRAINAGE, AND
UTILITY PLAN**

C-7
Sheet Number: 7 of 14
PRELIMINARY SUBMISSION

EXISTING		PROPOSED	
---	EDGE OF PAVEMENT	---	EDGE OF PAVEMENT
---	SILT SOCK	---	SILT SOCK
---	LIMIT OF DISTURBANCE	---	LIMIT OF DISTURBANCE
---	BASELINE OR CENTERLINE	---	BASELINE OR CENTERLINE
---	PROPERTY LINE	---	PROPERTY LINE
---	BERM/CURB	---	BERM/CURB
---	GAS MAIN	---	GAS MAIN
---	STORMDRAIN	---	STORMDRAIN
---	SANITARY SEWER	---	SANITARY SEWER
---	WATER MAIN	---	WATER MAIN
---	OVERHEAD WIRE	---	OVERHEAD WIRE
---	FLARED END SECTION	---	FLARED END SECTION
---	GAS GATE	---	GAS GATE
---	WATER GATE VALVE AND BOX	---	WATER GATE VALVE AND BOX
---	CATCH BASIN	---	CATCH BASIN
---	CATCH BASIN	---	CATCH BASIN
---	SEWER MANHOLE	---	SEWER MANHOLE
---	DRAINAGE MANHOLE	---	DRAINAGE MANHOLE
---	HYDRANT	---	HYDRANT
---	UTILITY POLE	---	UTILITY POLE
---	LIGHT POLE	---	LIGHT POLE
---	SIGN	---	SIGN
---	CONTOUR LINE	---	CONTOUR LINE
---	WOOD OR BRUSH LINE	---	WOOD OR BRUSH LINE
---	WETLAND AREA	---	WETLAND AREA
---	BUILDING	---	BUILDING
---	EDGE OF WETLAND	---	EDGE OF WETLAND

CATCH BASINS	
NAME:	DETAILS:
CB 1	RIM = 184.38 SUMP = 3' 12" INV OUT (W) = 180.80
CB 2	RIM = 184.38 SUMP = 3' 12" INV OUT (E) = 180.60 12" INV OUT (N) = 180.60
DCB 3	RIM = 182.94 SUMP = 3' 18" INV IN (S) = 179.20 18" INV OUT (E) = 179.20
DCB 4	RIM = 182.94 SUMP = 3' 18" INV IN (W) = 179.00 18" INV OUT (E) = 179.00

DRAINAGE MANHOLES	
NAME:	DETAILS:
DMH 1	RIM = 184.31 12" INV IN (S) = 180.00 18" INV IN (SW) = 179.50 18" INV OUT (N) = 179.50

FLARED ENDS	
NAME:	DETAILS:
FE 1	18" INV = 180.80
FE 2	18" INV = 178.00
FE 3	18" INV = 177.00
FE 4	12" INV = 177.20

SEWER MANHOLES	
NAME:	DETAILS:
SMH 5	RIM = 185.54 8" INV OUT = 179.38
SMH 4	RIM = 183.34 8" INV IN = 177.60 8" INV OUT = 177.50
SMH 3	RIM = 183.97 8" INV IN = 176.47 8" INV OUT = 176.37
SMH 2	RIM = TO GRADE 8" INV IN = 168.02 8" INV OUT = 167.92
SMH 1	RIM = TO GRADE 8" INV IN = 167.44 8" INV OUT = 167.34
EXISTING SMH	RIM = 175.52 8" INV IN = 166.92

PLAN INDEX:
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UNDER THE FOLLOWING STREETS:
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PICO CIRCLE

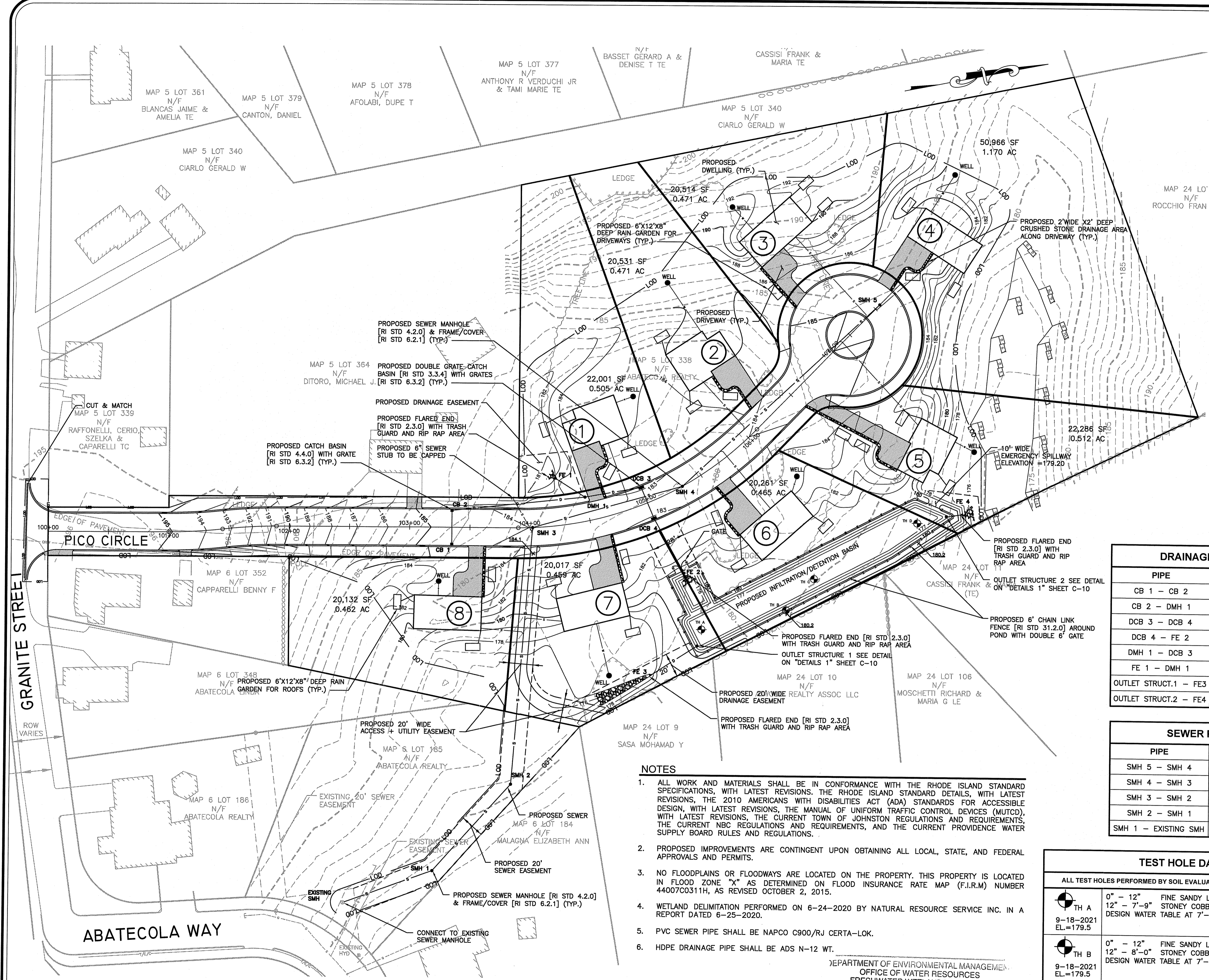
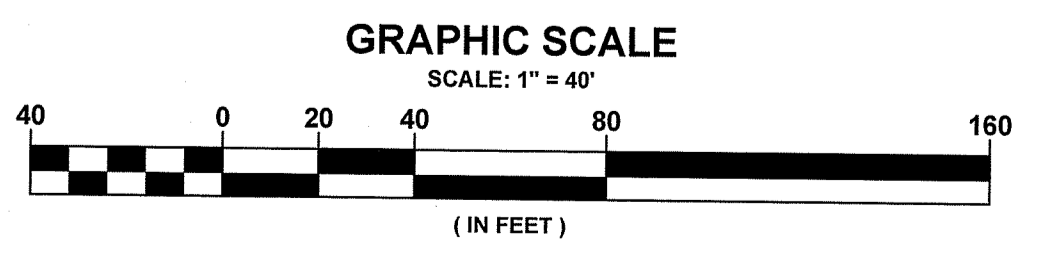
DRAINAGE PIPE TABLE			
PIPE	SLOPE	SIZE	MATERIAL
CB 1 - CB 2	0.0077	12"	HDPE
CB 2 - DMH 1	0.0057	12"	HDPE
DCB 3 - DCB 4	0.0077	18"	HDPE
DCB 4 - FE 2	0.0200	18"	HDPE
DMH 1 - DCB 3	0.0068	18"	HDPE
FE 1 - DMH 1	0.0433	18"	HDPE
OUTLET STRUCT. 1 - FE3	0.0075	18"	HDPE
OUTLET STRUCT. 2 - FE4	0.0067	12"	HDPE

SEWER PIPE TABLE			
PIPE	SLOPE	SIZE	MATERIAL
SMH 5 - SMH 4	0.0080	8"	PVC
SMH 4 - SMH 3	0.0080	8"	PVC
SMH 3 - SMH 2	0.039	8"	PVC
SMH 2 - SMH 1	0.0050	8"	PVC
SMH 1 - EXISTING SMH	0.0050	8"	PVC

TEST HOLE DATA	
ALL TEST HOLES PERFORMED BY SOIL EVALUATOR JOHN TZITZOURIS #D4021	
TH A 9-18-2021 EL.=179.5	0' - 12" FINE SANDY LOAM 12" - 7'-9" STONEY COBBLY GRAVELLY LOAMY SAND DESIGN WATER TABLE AT 7'-0"
TH B 9-18-2021 EL.=179.5	0' - 12" FINE SANDY LOAM 12" - 8'-0" STONEY COBBLY GRAVELLY LOAMY SAND DESIGN WATER TABLE AT 7'-0"
TH C 9-18-2021 EL.=179.6	0' - 3" FINE SANDY LOAM 3" - 12" FINE SANDY LOAM 12" - 24" GRAVELLY STONEY FINE SANDY LOAM 24" - 9'-0" STONEY GRAVELLY COBBLY LOAMY SAND DESIGN WATER TABLE AT 7'-0"
TH D 9-18-2021 EL.=178.5	0' - 4" FINE SANDY LOAM 4" - 14" STONY FINE SANDY LOAM 14" - 25" STONY GRAVELLY FINE SANDY LOAM 25" - 7'-6" GRAVELLY COBBLY LOAMY SAND DESIGN WATER TABLE AT 6'-0"

- NOTES**
- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE RHODE ISLAND STANDARD SPECIFICATIONS, WITH LATEST REVISIONS. THE RHODE ISLAND STANDARD DETAILS, WITH LATEST REVISIONS, THE 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN, WITH LATEST REVISIONS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), WITH LATEST REVISIONS, THE CURRENT TOWN OF JOHNSTON REGULATIONS AND REQUIREMENTS, THE CURRENT NBC REGULATIONS AND REQUIREMENTS, AND THE CURRENT PROVIDENCE WATER SUPPLY BOARD RULES AND REGULATIONS.
 - PROPOSED IMPROVEMENTS ARE CONTINGENT UPON OBTAINING ALL LOCAL, STATE, AND FEDERAL APPROVALS AND PERMITS.
 - NO FLOODPLAINS OR FLOODWAYS ARE LOCATED ON THE PROPERTY. THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" AS DETERMINED ON FLOOD INSURANCE RATE MAP (F.I.R.M.) NUMBER 44007C0311H, AS REVISED OCTOBER 2, 2015.
 - WETLAND DELIMITATION PERFORMED ON 6-24-2020 BY NATURAL RESOURCE SERVICE INC. IN A REPORT DATED 6-25-2020.
 - PVC SEWER PIPE SHALL BE NAPCO C900/RJ CERTA-LOK.
 - HDPE DRAINAGE PIPE SHALL BE ADS N-12 WT.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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P:\3066\ABATECOLA\3066-05 (GRANITE ST SUBDIVISION)\DWG\REF\DETAILS.DWG 11/10/21 16:12

