

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA



SEAFORD ELEMENTARY SCHOOL ADDITION



SEAFORD ELEMENTARY
SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



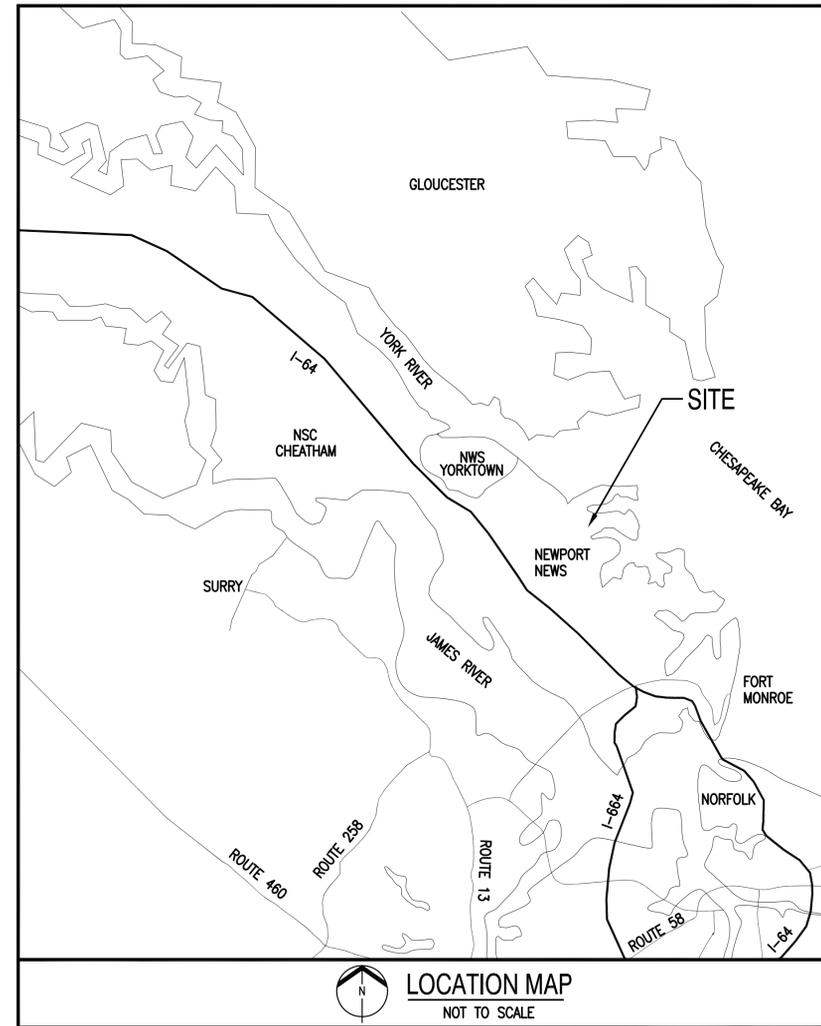
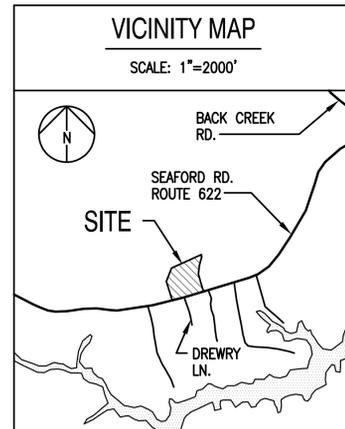
OCTOBER 07, 2013

REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013



LEGEND & NOTES

JOB NUMBER 1302



TO.01

LEGEND:

	EXISTING (E.)	NEW
TOP OF CURB OR CONCRETE (TC) ELEVATION ELEVATION OF GUTTER, PAVEMENT OR GROUND		TC 11.92 11.42
SPOT ELEVATION		11.50
BITUMINOUS PAVEMENT		
BOLLARD		
BUILDING (BLDG.)		
BUSH		
CENTERLINE DITCH/SWALE		
CONCRETE (CONC.)		
CONCRETE (CONC.) PAVEMENT		
CONCRETE (CONC.) SIDEWALK		
CURB		
CURB AND GUTTER		
EDGE OF WOODS		
FLOWER BED (F.B.)		
FENCE		
REINFORCED EARTH		
SIGN		
TOE OF SLOPE (T.O.S.)		
TOP OF BANK (T.O.B.)		
TREE		
GAS LINE		
OVERHEAD (OH.) UTILITY LINE		
SANITARY (SAN.) SEWER		
STORM (S.) SEWER		
UNDERGROUND (UG.) ELECTRIC (ELEC.)		
UNDERGROUND (UG.) GEOTHERMAL (GT.)		
UNDERGROUND (UG.) TELEPHONE (TEL.)		
WATER (W.) MAIN		
CATCH BASIN (C.B.)		
CLEAN OUT (C.O.)		
CURB INLET (C.I.)		
FIRE HYDRANT (F.H.)		

LEGEND:

	EXISTING (E.)	NEW
FIRE LANE MARKER		
FLARED END SECTION (F.E.S.)		
GEOTHERMAL WELL		
GUY WIRE		
LIGHT POLE IN CONCRETE		
MANHOLE (MH.)		
ROOF DRAIN		
SPLASH BLOCK (S.B.)		
UTILITY POLE		
WATER VALVE (W.V.)		
CONSTRUCTION ENTRANCE (CE-3.02)		
CURB INLET PROTECTION (IP-3.07)		
INLET PROTECTION (IP-3.07)		
OUTLET PROTECTION (OP-3.18)		
SILT FENCE (SF-3.05)		
CHAIN LINK FENCE		
COVER		
DOWNSPOUT CONNECTION		
INACCESSIBLE		
INVERT		
MATCH EXISTING GRADE		
METAL		
NOT FOUND		
TYPICAL		
WITH		

SURVEY NOTES:

- TOPOGRAPHIC SURVEY PREPARED BY C. ALLAN BAMFORTH, JR., ENGINEER - SURVEYOR LTD., DATED: FEBRUARY 2013.
- THIS SURVEY DOES NOT GUARANTEE THE EXISTENCE/NONEXISTENCE, SIZE, TYPE AND/OR LOCATION OF UNDERGROUND UTILITIES. UTILITIES SHOWN ARE BASED ON ABOVE GROUND UTILITY STRUCTURES (I.e., VALVES, MANHOLES, ETC...) AND AVAILABLE UTILITY MAPS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- ELEVATIONS ARE IN FEET AND REFER TO NATIONAL GEODETIC DATUM (NGVD) 1929 AND ARE BASED ON YORK COUNTY CONTROL, STATION NO. 081. SEE SHEET C1.07.

SEQUENCE OF CONSTRUCTION

- HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTORS.
- INSTALL SILT FENCE AND TREE PROTECTION ON PROJECT SITE. DEMOLISH REQUIRED SITE ITEMS.
- ROUGH GRADE SITE.
- INSTALL STORM DRAINAGE SYSTEM AND BMP, PROTECT FROM USE.
- INSTALL INLET PROTECTION.
- SUBMIT PRELIMINARY BMP AS-BUILT DRAWINGS TO YORK COUNTY, DEPARTMENT OF ENVIRONMENTAL AND DEVELOPMENT SERVICES, STORM WATER DIVISION.
- INSTALL ONSITE UTILITIES. CONSTRUCT BUILDING.
- PLACE AGGREGATE BASE AND CONSTRUCT SIDEWALK, CONCRETE PAVEMENT, CURB & GUTTER.
- INSTALL BITUMINOUS PAVEMENT AND REINFORCED EARTH.
- FINAL GRADE AND LANDSCAPE.
- REMOVE ALL TEMPORARY EQUIPMENT, CONSTRUCTION. MATERIALS AND DEBRIS FROM THE SITE AFTER SITE IS STABILIZED.
- REMOVE ALL EROSION AND SEDIMENT CONTROL MEASURES AFTER DISTURBED AREAS ARE STABILIZED.
- SUBMIT STORMWATER AS-BUILT DRAWINGS TO YORK COUNTY, DEPARTMENT OF ENVIRONMENTAL AND DEVELOPMENT SERVICES, STORMWATER DIVISION.

OWNER:

COUNTY SCHOOL BOARD OF YORK COUNTY
302 DARE ROAD
YORKTOWN, VIRGINIA 23692
ATTN. MARK TSCHIRHART - (757) 898-0499

SITE ADDRESS:

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT

SITE DATA:

TOTAL SITE AREA: 19.8 ACRES
BUILDING USE: SCHOOL
AREA OF EXISTING BUILDING: 54,099 S.F. (±)
BUILDING HEIGHT: 14 FEET
TOTAL PRE-DEVELOPED IMPERVIOUS: 167,961 S.F. (±)
AREA OF PROPOSED BUILDING ADDITIONS: 7,632 S.F. (±)
AREA OF ADDITIONAL PAVEMENT:
2,178 S.F. (NEW) - 1,595 S.F. (REMOVED) = 583 S.F. (±)
TOTAL POST-DEVELOPED IMPERVIOUS: 176,176 S.F. (±)
AREA OF DISTURBANCE: 1.55 AC.
LIMITS OF CONSTRUCTION = 1.55 AC.
GPIN NO: T08a-1320-3013 AND T08a-1766-3031
TAX MAP NO.S 25-00-00-314
25-00-00-315

ZONING:

EXISTING SITE ZONING = RC

FLOOD MAP:
PROPERTY APPEARS TO BE IN ZONES X, X 500, AND AE
COMMUNITY PANELS 51199C0205C, AND 51199C0215C.
DATED JUNE 16, 2009

C. ALLAN BAMFORTH, JR. ENGINEER-SURVEYOR, LTD IS NOT A PARTY IN DETERMINING THE REQUIREMENTS FOR FLOOD INSURANCE ON THE PROPERTY SHOWN HEREON. THIS SURVEY DOES NOT IMPLY THAT THIS PROPERTY WILL OR WILL NOT BE SUBJECT TO FLOODING.

FOR FURTHER INFORMATION, CONTACT LOCAL COMMUNITY FLOOD OFFICIAL.

**C. ALLAN BAMFORTH, JR.,
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NORFOLK, VIRGINIA**

PARKING DATA:

PARKING DATA:
EXISTING PARKING AREA = 72,099 SQUARE FEET

PARKING SPACES PROVIDED
EXISTING STANDARD SPACES = 127
EXISTING SPACES REMOVED = 3
EXISTING LOADING SPACE = 1
EXISTING ACCESSIBLE SPACES = 5
TOTAL EXISTING PARKING SPACES = 130

PARKING SPACES REQUIRED
NUMBER OF EXISTING CLASSROOMS = 24
PROPOSED ADDITIONAL CLASSROOMS = 5
TOTAL NUMBER OF CLASSROOMS = 29
29 CLASS ROOMS x 2.5 SPACES / CLASSROOM = 73 SPACES
OFF-STREET LOADING = 1 SPACE
ACCESSIBLE SPACES = 5 SPACES (101 to 150 TOTAL PARKING SPACES)
TOTAL REQUIRED PARKING SPACES = 79

TRIP GENERATION - PROPOSED CLASSROOM ADDITION
REPLACES FOUR PORTABLE CLASSROOMS. NO ADDITIONAL TRIP GENERATION IS ANTICIPATED.

NOTES:

A VSPM CONSTRUCTION PERMIT IS REQUIRED BY THE CONTRACTOR FOR THIS PROJECT FOR LAND DISTURBANCE OVER AN ACRE. CONTACT THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY AT (804) 698-4000 TO OBTAIN A VSPM CONSTRUCTION PERMIT.

THIS PROJECT HAS A DISTURBED AREA GREATER THAN 2500 SQUARE FEET AND REQUIRES A LAND DISTURBING PERMIT.

ALL BACKFILL MATERIAL OVER STORMWATER PIPING SHALL BE STRUCTURAL FILL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IN-SITU SOIL IS NOT SUITABLE FOR REUSE AS BACKFILL MATERIAL.

UTILITY NOTE:

ALL UTILITY FACILITIES INCLUDING BUT NOT LIMITED TO WIRES, CABLES, PIPES, CONDUITS AND APPURTENANT EQUIPMENT, CARRYING OR USED IN CONNECTION WITH THE FURNISHING OF ELECTRIC, TELEPHONE, TELEGRAPH, CABLE TELEVISION OR SIMILAR SERVICE TO THE PROPOSED ADDITION SHALL BE PLACED UNDERGROUND.

NATURAL RESOURCES INVENTORY:

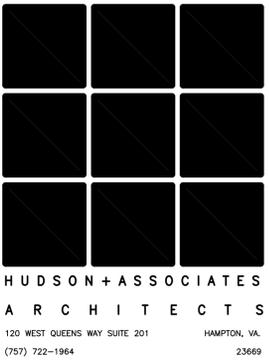
AN IN-FIELD NATURAL RESOURCE INVENTORY WAS PERFORMED ON JUNE 28, 2013 BY YORK COUNTY STAFF AND DETERMINED WETLANDS AND RPA DELINEATIONS TO BE OUTSIDE OF THE PROJECT LIMITS.

STORMWATER NARRATIVE:

THIS PROJECT IS A SIX CLASSROOM ADDITION TO SEAFORD ELEMENTARY SCHOOL. THE SITE STORMWATER WILL BE COLLECTED VIA A COMBINATION OF OVERLAND FLOW, STORM SEWER PIPING AND INLETS. THE MAJORITY OF THE ADDITION SITE WILL DRAIN INTO BEST MANAGEMENT PRACTICES (BMPS) AND ULTIMATELY DISCHARGE INTO AN EXISTING DITCH. ALL NEW IMPERVIOUS AREA AND SOME EXISTING IMPERVIOUS AREA, WILL DRAIN TO THE BMPS. NO TRAILERS WILL REMAIN ON THE SITE.

THE STATE OF VIRGINIA REQUIRES THAT THE BMPS ARE DESIGNED TO HANDLE THE WATER QUALITY VOLUME WITH A BMP EFFICIENT ENOUGH TO REDUCE THE POLLUTANT LOADING FROM THE SITE BY 10% FOR REDEVELOPED CONDITIONS. IN ADDITION, THE DOWNSTREAM SYSTEM IS CONSIDERED ADEQUATE IF THE PROJECT SITE WATER QUALITY VOLUME IS DETAINED FOR 48-HOURS, THE 1-YEAR STORM IS DETAINED FOR 24-HOURS AND THE 1.5, 2 AND 10 YEAR STORMS ARE DETAINED TO PRE-DEVELOPED CONDITIONS FOR WOODS. THE STORMWATER MANAGEMENT IS DESIGNED USING THE RATIONAL METHOD AND THE YORK COUNTY RAINFALL CURVE.

STORMWATER MANAGEMENT PROVIDED TO MEET THESE REQUIREMENTS WILL INCLUDE TWO FILTERRA SYSTEMS AND AN UNDERGROUND PIPE EXTENDED DETENTION SYSTEM. THE DESIGN IS IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION'S VIRGINIA STORMWATER MANAGEMENT HANDBOOK. THERE IS NO OFF-SITE RUNOFF COMING ONTO THE SITE.



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GENERAL EROSION AND SEDIMENT CONTROL NOTES

COUNTY OF YORK, VIRGINIA

NOTE ON PLANS: ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE CURRENT COUNTY OF YORK EROSION AND SEDIMENT CONTROL ORDINANCE, THE 1992 VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATION VR-625-02-00, EROSION AND SEDIMENT CONTROL REGULATIONS. THE PERMITTEE OR HIS AGENT AND/OR CONTRACTOR SHALL SECURE A COPY OF EACH PUBLICATION AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL APPLICABLE PRACTICES CONTAINED THEREIN WHICH MAY BE PERTINENT TO THIS PROJECT.

THE PURPOSE OF SUCH PRACTICES INCLUDING, BUT NOT LIMITED TO, THOSE SHOWN ON THESE PLAN SHEETS SHALL BE TO PRECLUDE THE TRANSPORT OF ALL WATERBORNE OR AIRBORNE SEDIMENTS RESULTING FROM CONSTRUCTION ACTIVITIES FROM ENTERING ONTO ADJACENT PROPERTIES OR INTO STATE WATERS. ALL SEDIMENTS MUST BE CONFINED TO THE PROJECT SITE AT THE LOCATION(S) SHOWN ON THE PLANS. PROTECTION OF EXISTING NATURAL VEGETATION FROM NEEDLESS DISTURBANCE IS ESSENTIAL. ALL CONSTRUCTION PERSONNEL SHALL BE CAUTIONED TO AVOID DAMAGE TO EXISTING TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.

THE FOLLOWING SHALL BE INCLUDED IN THE SEQUENCE OF CONSTRUCTION OR NARRATIVE TO ADDRESS EROSION CONTROL PRACTICES.

- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE. THE BASIN(S) ARE TO BE KEPT CLEAR OF DEBRIS AND SEDIMENTS SHALL BE CLEANED OUT PERIODICALLY DURING AND AFTER CONSTRUCTION ACTIVITIES.
- ALL TEMPORARY OR PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES NECESSARY FOR RETAINING SEDIMENTS ON THE CONSTRUCTION SITE SHALL BE INSTALLED AND TREE PROTECTION FENCING SHALL BE ERRECTED AT THE LOCATIONS AS SPECIFIED ON THE APPROVED PLANS PRIOR TO ANY LAND CLEARING, GRUBBING, GRADING OR EARTH MOVING ACTIVITIES.
- CONSTRUCTION ENTRANCE (CE) SHALL BE INSTALLED CONCURRENTLY WITH THE INITIATION OF CLEARING AND GRUBBING OPERATIONS.
- CLEARING AND GRUBBING DEBRIS SHALL BE PROPERLY DISPOSED OF.
- THE INSTALLATION OF EROSION CONTROL AND DRAINAGE FACILITIES SHALL TAKE PRECEDENCE OVER ALL OTHER CONSTRUCTION ACTIVITIES. SITE DRAINAGE FACILITIES SHALL BE SCHEDULED TO BE COMPLETED WITHIN 30 DAYS FOLLOWING COMPLETION OF THE ROUGH GRADING OPERATIONS AT ANY POINT ON THE PROJECT.
- OUTFALL DITCHES SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO THE INITIATION OF ANY UTILITY CONSTRUCTION OR BUILDING CONSTRUCTION ACTIVITY. OUTLET PROTECTION (OP) SHALL ALSO BE INSTALLED WHERE CALLED FOR IMMEDIATELY AFTER CONSTRUCTION OF THE OUTFALL DITCH(ES).
- ALL TEMPORARY OR PERMANENT EARTHEN STRUCTURES SUCH AS DAMS, AND DIVERSION DIKES SHALL BE STABILIZED (SEEDED) IMMEDIATELY AFTER THEIR CONSTRUCTION. STONE OUTLET(S) SHALL BE PROVIDED WHERE SHOWN ON THE PLANS.
- TOPSOIL STOCKPILES SHALL BE PLACED IN THE LOCATION(S) SHOWN ON THESE PLANS. SILT FENCE OR STRAW BALE BARRIERS SHALL BE ERRECTED AT THE TOE OF THE STOCKPILE(S). SILT FENCE OR STRAW BALE BARRIERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. STOCKPILES SHALL BE SEEDED AND STABILIZED WITH A FIRM STAND OF GRASS.
- CONSTRUCTION ROAD STABILIZATION SHALL BE APPLIED TO ACCESS ROADS, SUBDIVISION ROADS, PARKING AREAS AND/OR OTHER VEHICLE TRANSPORTATION ROUTES IMMEDIATELY AFTER GRADING.
- ALL AREAS DESIGNATED FOR UNDERGROUND UTILITIES SHALL BE STABILIZED AS SOON AS PRACTICAL BUT NOT EXCEEDING 15 DAYS FOLLOWING THEIR INSTALLATION AND BACKFILLING. TRENCH LENGTH TO BE OPENED AT ANY ONE TIME IS NOT TO EXCEED 500 FEET. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS THAT MAY NOT BE A FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. TEMPORARY VEGETATIVE COVER MAY BE ELIMINATED IN FAVOR OF THE PERMANENT VEGETATIVE COVER IF SITE CONDITIONS PERMIT AND THE OWNER AND/OR ENGINEER SO DIRECTS. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION. PERMANENT VEGETATIVE COVER (STABILIZATION) SHALL CONSIST OF TOPSOILING, LIMING, FERTILIZING, SEEDING, AND MULCHING TO ASSURE A FIRM STAND OF GRASS.
- MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE SCHEDULED ON A WEEKLY BASIS AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT PER THE VA E & S HANDBOOK. ANY SEDIMENT THAT HAS BEEN TRANSPORTED BEYOND THE PROJECT LIMITS SHALL BE REMOVED.
- SEDIMENT TRAPS, BASINS AND OTHER TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED ONLY WHEN STABILIZATION HAS BEEN ESTABLISHED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES

SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE DIRECTED BY THE COUNTY.

- ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO THIS PROJECT SHALL BE MET.
- THE PERMITTEE SHALL BE HELD RESPONSIBLE FOR THE ACTIONS AND PERFORMANCE OF ANY OTHER PARTIES PERFORMING WORK ON THIS PROJECT.

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A SIX CLASSROOM ADDITION TO SEAFORD ELEMENTARY SCHOOL, LOCATED AT 1105 SEAFORD ROAD. THE CURRENT SITE CONTAINS: THE ELEMENTARY SCHOOL; FOUR PORTABLE CLASSROOMS; THREE OUTDOOR SHEDS; PLAYGROUNDS; SEVERAL ATHLETIC FIELDS; ASSOCIATED PAVING AND UTILITIES. FOUR PORTABLE CLASSROOMS WILL BE REMOVED TO PROVIDE ROOM FOR THE BUILDING ADDITION. THE TOTAL SITE IS 12.90 ACRES WITH 1.36 ACRES OF DISTURBED AREA. ASSOCIATED WITH THE BUILDING WILL BE THE INSTALLATION OF BITUMINOUS PAVEMENT, REINFORCED EARTH, SIDEWALK, CURBING, EARTHWORK, UTILITIES, STORMWATER MANAGEMENT, AND SOIL AND EROSION CONTROL.

EXISTING SITE CONDITIONS:

THE PROPOSED PROJECT WILL BE CONSTRUCTED ON GRASS AREAS OR AREAS WHERE PAVEMENT HAS BEEN DEMOLISHED. THE PROJECT SITE IS MOSTLY FLAT WITH SLOPES LESS THAN 2 PERCENT.

ADJACENT PROPERTY:

CONSTRUCTION ACTIVITIES WILL BE LIMITED TO THE SITE. CONSTRUCTION WILL INCLUDE A BMP TO MANAGE STORMWATER DISCHARGE FROM THE SITE. IN ORDER TO PROTECT THE SURROUNDING AREAS FROM ANY IMPACT, THE CONSTRUCTION AREA WILL BE PROTECTED WITH SILT FENCING PRIOR TO ANY LAND DISTURBING ACTIVITIES. ALL STORM INLETS WILL BE PROTECTED TO CONTROL SEDIMENT FROM LEAVING THE SITE.

OFF-SITE AREAS:

ALL SITE WORK WILL BE CONDUCTED WITHIN THE SITE BOUNDARIES. ANY CLEARED/GRUBBED MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF PROPERLY IN AN ACCEPTABLE APPROVED LANDFILL.

SOILS:

THE PREDOMINANT SOIL ON THE SITE IS URBAN LAND WHICH TYPICALLY INDICATES FILL MATERIALS. HOWEVER FILL MATERIAL WAS NOT OBSERVED IN SOIL BORINGS. THE SURFACE LAYER IS 3 TO 4 INCHES OF TOPSOIL. SUBSURFACE LAYERS OF SILTY AND CLAYEY SAND (SM AND SC) EXTEND TO A DEPTH OF 8 FEET WITH SILTY FINE SAND (SM) EXTENDING FROM 8 FEET TO 25 FEET. THE HYDROLOGIC SOIL GROUP IS B AND DEPTH TO WATER TABLE IS 2 TO 6 FEET.

CRITICAL AREAS:

NO CRITICAL AREAS EXIST ON SITE. THE SITE PLAN HAS BEEN DEVELOPED TO MINIMIZE LAND DISTURBANCE. WHERE GRADING IS NECESSARY, ADEQUATE PRECAUTIONS HAVE BEEN TAKEN TO MINIMIZE EROSION AND TO CONTAIN SILT THROUGH PROPER EROSION AND SEDIMENT CONTROL PRACTICES.

EROSION AND SEDIMENT CONTROL MEASURES

ALL STRUCTURAL PRACTICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION EROSION AND SEDIMENT CONTROL HANDBOOK.

- TEMPORARY CONSTRUCTION ENTRANCE (CE) – 3.02

THE PURPOSE IS TO PREVENT THE TRACKING OF MUD ONTO ROADS OUTSIDE THE CONSTRUCTION AREA.

- INLET PROTECTION (IP) – 3.07

TO PROTECT THE EXISTING & NEW STORM DRAIN SYSTEM FROM SEDIMENT DURING CONSTRUCTION.

- SILT FENCE (SF) – 3.05

SILT FENCE IS TO BE PLACED AROUND THE SITE PERIMETER ON THE DOWNSLOPE SIDE OF THE DISTURBED AREA TO PROTECT EXISTING VEGETATION FROM SEDIMENT DEPOSITION.

- OUTLET PROTECTION (OP) – 3.18

TO PREVENT SCOUR AT STORMWATER OUTLETS, TO PROTECT THE OUTLET STRUCTURE, AND TO MINIMIZE THE POTENTIAL FOR DOWNSTREAM EROSION BY REDUCING THE VELOCITY AND STORMWATER FLOWS. THE OUTLET WILL BE PROTECTED PER INSTRUCTIONS IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

- TEMPORARY SEEDING (TS) – 3.31

- PERMANENT SEEDING (PS) – 3.32 (PERMANENT STABILIZATION)

PERMANENT OR TEMPORARY SEEDING AND MULCHING SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SEEDING AND MULCHING SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. SEEDING AND MULCH TO BE APPLIED AT RATES SHOWN IN THE SEEDING SCHEDULE.

- DUST CONTROL (DC) – 3.39

IF REQUIRED, DUST CONTROL MEASURES, AS PER THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, WILL BE USED TO REDUCE THE SURFACE AND AIR MOVEMENT OF DUST.

- TREE PROTECTION (TP) – 3.38

TO PREVENT ANY HARM TO TREE SPECIMENS WITHIN THE CONSTRUCTION AREA, HIGHLY VISIBLE CONSTRUCTION FENCE WILL BE PLACED AROUND THE TREE AS PER THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

- MULCHING (MU) – 3.35

TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACT AND REDUCING THE VELOCITY OF OVERLAND FLOW TO FOSTER THE GROWTH OF THE VEGETATION BY INCREASING AVAILABLE MOISTURE AND PROVIDING INSULATION AGAINST EXTREME HEAT AND COLD.

PERMANENT STABILIZATION

ALL DISTURBED AREAS NOT TO BE COVERED WITH BUILDINGS, PAVEMENT, OR SIDEWALKS SHALL BE STABILIZED USING PERMANENT SEED AND MULCH PER TABLE 3.32-E

STORMWATER RUNOFF CONSIDERATIONS

THE POST-DEVELOPED STORMWATER FOR THE NEW CONSTRUCTION WILL DRAIN THROUGH A SERIES OF PIPES AND STORMWATER STRUCTURES TO A BMP. THE BMP WILL DISCHARGE TO AN EXISTING DITCH. THE BMP DISCHARGE HAS BEEN RESTRICTED TO LESS THAN THE PRE-DEVELOPED RATE FOR THE YORK COUNTY 1.5, 2, AND 10-YEAR STORMS.

CALCULATIONS

WATER QUALITY CALCULATIONS (PRE- AND POST- DEVELOPED FOR THE 1.5, 2, 10-YEAR STORMS) AND WATER QUALITY CALCULATIONS PER CHAPTER 5 OF VESCH HAVE BEEN SUBMITTED.

MAINTENANCE

THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST EVERY 2 WEEKS AND IMMEDIATELY AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

THE TEMPORARY STONE CONSTRUCTION ENTRANCE SHALL BE TOP DRESSED WITH ADDITIONAL STONE, OR WASH AND REWORK THE EXISTING STONE AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS TRACKED, DROPPED, OR SPILLED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

THE SILT FENCE SHALL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALFWAY TO THE TOP OF THE BARRIER.

INLET PROTECTION – THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF OF DESIGN DEPTH.

OUTLET PROTECTION SHALL BE INSPECTED PERIODICALLY AND AFTER HIGH FLOWS FOR SCOUR OR DISPLACEMENT OF STONE. REPAIR TO ORIGINAL CONDITION AS NECESSARY.

DUST CONTROL SHALL BE REAPPLIED AS NEEDED TO REDUCE DUST EMISSIONS.

TREE PROTECTION SHALL BE INSPECTED REGULARLY. ANY DAMAGE TO THE CROWN, TRUNK, OR ROOT SYSTEM OF ANY TREE RETAINED ON SITE SHALL BE REPAIRED IMMEDIATELY IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, SECTION 3.38.

ALL MULCHES AND SOIL COVERINGS SHALL BE INSPECTED PERIODICALLY TO CHECK FOR EROSION. WHERE EROSION IS OBSERVED IN MULCHED AREAS, ADDITIONAL MULCH SHALL BE APPLIED. INSPECTIONS SHALL TAKE PLACE UP UNTIL GRASSES ARE ADEQUATELY ESTABLISHED.

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

AFTER SEEDING WHEN IT IS CLEAR THAT PLANTS HAVE NOT GERMINATED ON AN AREA OR HAVE DIED, THESE AREAS MUST BE RESEEDD IMMEDIATELY TO PREVENT EROSION DAMAGE.

DURING CONSTRUCTION TEMPORARY PROTECTION AND PERMANENT STABILIZATION SHALL BE APPLIED TO ALL SOIL STOCKPILES AND BORROW AREAS ON THE SITE. PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO ALL DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.

ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER REACHING FINAL GRADE OR AFTER DETERMINING THEY ARE NOT REQUIRED ANYMORE.

RESTALLIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.

COMPLY WITH APPLICABLE SAFETY REGULATIONS.

SEEDING SCHEDULE

ALL AREAS WITHIN PROPERTY LIMITS DISTURBED DURING CONSTRUCTION NOT OCCUPIED BY BUILDINGS, WALKS, OR PAVEMENT SHALL BE TOPSOILED (4" THICK) AND SEEDED.

TABLE 3.31-B (Revised June 2003) TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS		
APPLICATION DATES	SEED SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME	
<ul style="list-style-type: none"> Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.) Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.) 	

NOTE:
 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/ow/e&s.htm#pubs>

BOTH SEEDING TYPES SHALL BE PROVIDED AT THE APPROPRIATE TIME DURING THE CONSTRUCTION PROCESS.

TEMPORARY – PROVIDE MINIMUM CARE LAWN AS SPECIFIED IN E&S CONTROL TECHNICAL BULLETIN NO. 4, TABLE 3.31-B ABOVE

PERMANENT – PROVIDE MINIMUM CARE LAWN AS SPECIFIED IN E&S CONTROL TECHNICAL BULLETIN NO. 4, TABLE 3.32-E BELOW.

TABLE 3.32-E (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR COASTAL PLAIN AREA		
LAND USE	SEED SPECIES	APPLICATION RATES
Minimum Care Lawn (Commercial or Residential)	Tall Fescue ¹ or Bermudagrass ¹	175 - 200 lbs. 75 lbs.
High-Maintenance Lawn	Tall Fescue ¹ or Bermudagrass ¹ (seed) or Bermudagrass ¹ (by other vegetative establishment method, see Std. & Spec. 3.34)	200-250 lbs. 40 lbs. (unhulled) 30 lbs. (hulled)
General Slope (3:1 or less)	Tall Fescue ¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop ²	128 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue ¹ Bermudagrass ¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop ² Sericea Lespedeza ²	93-108 lbs. 0-15 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCA. A current turfgrass variety list is available at the local County Extension office or through VCA at 804-746-4884 or at <http://pubs.ces.vt.edu/html/TurfPublications/Publications2.html>

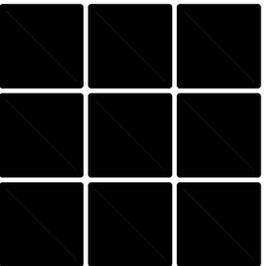
2 - Use seasonal nurse crop in accordance with seeding dates as stated below:

February, March - April	Annual Rye
May 1st - August	Foxtail Millet
September, October - November 15th	Annual Rye
November 16th - January	Winter Rye

3 - May through October, use hulled seed. All other seeding periods, use unhulled seed. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 -40 lbs/acre.

FERTILIZER & LIME	
<ul style="list-style-type: none"> Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.) Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.) 	

NOTE:
 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/ow/e&s.htm#pubs>

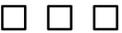


HUDSON + ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201
(757) 722-1964
HAMPTON, VA 23669

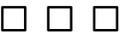


SEAFORD ELEMENTARY SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



OCTOBER 07, 2013
REV. DESCRIPTION DATE
1 WHOLE SHEET REVISION 12/05/2013



EROSION CONTROL NOTES

JOB NUMBER 1302

CO.02

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA



STORM STRUCTURE DATA		
STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
1	S. CO. INV. 6" (W) = 10.94	N: 3597893.6246 E: 12081415.0251
2	S. CO. INV. 6" (E) = 10.80 INV. 6" (NW) = 10.80	N: 3597889.1506 E: 12081402.5611
3	S. CO. INV. 6" (SE) = 10.64 INV. 8" (N) = 10.56	N: 3597895.6411 E: 12081388.8019
4	S. CO. INV. 4" (N) = 11.46	N: 3597847.1337 E: 12081306.1604
5	S. CO. INV. 4" (S) = 10.91 INV. 8" (E) = 10.75	N: 3597893.9653 E: 12081289.0663
6	S. CO. INV. 4" (N) = 11.15	N: 3597863.5241 E: 12081351.8415
7	WYE INV. 8" (W) = 10.47 INV. 4" (S) = 10.63 INV. 8" (E) = 10.47	N: 3597910.4519 E: 12081334.9962
8	WYE INV. 8" (S) = 10.23 INV. 8" (W) = 10.23 INV. 8" (N) = 10.23	N: 3597925.8706 E: 12081377.9510
9	*FILTERRA ROOFDRAIN (6' X 6') (FTIB-P) RIM = 12.20 INV. 8" (S) = 9.58 INV. 8" (N) = 6.75	N: 3597987.3229 E: 12081355.8925
10	C.B. RIM = 11.70 INV. 8" (S) = 6.68 INV. 15" (E) = 6.62	N: 3597999.2116 E: 12081351.6250

STORM STRUCTURE DATA		
STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
11	BYPASS STRUCTURE (SEE DETAIL ON C5.02) RIM = 11.35 INV. 15" (W) = 6.21 INV. 24" (N) = 6.21 INV. 18" (E) = 6.21	N: 3598068.4169 E: 12081544.4228
12	TEE INV. 24" (S) = 6.20 INV. 24" (E) = 6.20 INV. 24" (N) = 6.20	N: 3598073.3720 E: 12081545.0914
13	90° W/ ACCESS RISER INV. 24" (S) = 5.99 INV. 24" (E) = 5.99	N: 3598175.1166 E: 12081558.8197
14	90° W/ ACCESS RISER INV. 24" (W) = 6.14 INV. 24" (N) = 6.14	N: 3598069.2602 E: 12081575.5653
15	FILTERRA STANDARD (10' X 6') RIM = 11.70 INV. 8" (E) = 8.20	N: 3598029.9871 E: 12081577.9362
16	C.I. RIM = 11.68 INV. 8" (W) = 8.16 INV. 15" (N) = 6.50	N: 3598031.2934 E: 12081586.1687
17	C.B. RIM = 11.00 INV. 15" (S) = 6.41 INV. 18" (W) = 6.16 INV. 18" (N) = 6.16	N: 3598063.5028 E: 12081580.8428
18	TEE INV. 24" (W) = 5.93 INV. 24" (S) = 5.93 INV. 24" (N) = 5.92	N: 3598171.0048 E: 12081589.2935
19	C.B. RIM = 10.10 INV. 18" (S) = 5.93 INV. 18" (W) = 5.93	N: 3598175.1576 E: 12081595.9082
20	OUTLET STRUCTURE (SEE DETAIL ON C5.02) RIM = 10.00 INV. 18" (E) = 5.92 INV. 24" (S) = 5.91 INV. 18" (N) = 5.92	N: 3598175.9599 E: 12081589.9621

STORM STRUCTURE DATA		
STRUCTURE NO.	STRUCTURE DETAILS	LOCATION
21	C.B. RIM = 9.55 INV. 18" (S) = 5.57 INV. 18" (NE) = 5.57	N: 3598350.8693 E: 12081613.5624
22	C.B. RIM = 10.04 INV. 18" (SW) = 5.31 INV. 18" (E) = 5.31	N: 3598443.8710 E: 12081700.5649
23	C.B. RIM = 9.10 INV. 18" (W) = 5.09 INV. 18" (N) = 5.09	N: 3598476.3425 E: 12081807.7544
24	F.E.S. INV. 18" (S) = 5.00	N: 3598521.9904 E: 12081816.8363

STORM PIPE DATA	
PIPE CONNECTION	PIPE DETAILS
1 - 2	13' - 6" S. @ 1.06%
2 - 3	15' - 6" S. @ 1.05%
3 - 8	33' - 8" S. @ 1.00%
4 - 5	50' - 4" S. @ 1.10%
5 - 7	49' - 8" S. @ 0.57%
6 - 7	50' - 4" S. @ 1.04%
7 - 8	46' - 8" S. @ 0.52%
8 - 9	65' - 8" S. @ 1.00%
9 - 10	13' - 8" S. @ 0.55%
10 - 11	205' - 15" S. @ 0.20%
11 - 12	5' - 24" S. @ 0.20%
11 - 17	37' - 18" S. @ 0.14%
12 - 13	103' - 24" S. @ 0.20%
12 - 14	31' - 24" S. @ 0.20%
13 - 18	31' - 24" S. @ 0.20%
14 - 18	103' - 24" S. @ 0.20%
15 - 16	8' - 8" S. @ 0.48%
16 - 17	31' - 15" S. @ 0.29%
17 - 19	113' - 18" S. @ 0.20%
18 - 20	5' - 24" S. @ 0.20%
19 - 20	6' - 18" S. @ 0.17%
20 - 21	176' - 18" S. @ 0.20%
21 - 22	127' - 18" S. @ 0.20%
22 - 23	112' - 18" S. @ 0.20%
23 - 24	47' - 18" S. @ 0.19%

CURB INLET SHALL CONFORM TO VDOT DI-3A

CATCH BASINS SHALL CONFORM TO VDOT DI-1

ALL 15" AND 18" STORM PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS III UNLESS NOTED OTHERWISE.

ALL 24" PIPE SHALL BE HDPE FOR USE IN UNDERGROUND PIPED DETENTION AREA.

ALL 4", 6" AND 8" STORM PIPE SHALL BE PVC SDR-35 UNLESS NOTED OTHERWISE.

ALL LATERALS NOT SHOWN IN SCHEDULE SHALL BE 4" S. @ 1.04% (MIN.)

*FTIB-P, FILTERRA INTERNAL BYPASS - PIPE



SEAFORD ELEMENTARY
SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



OCTOBER 07, 2013

REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013

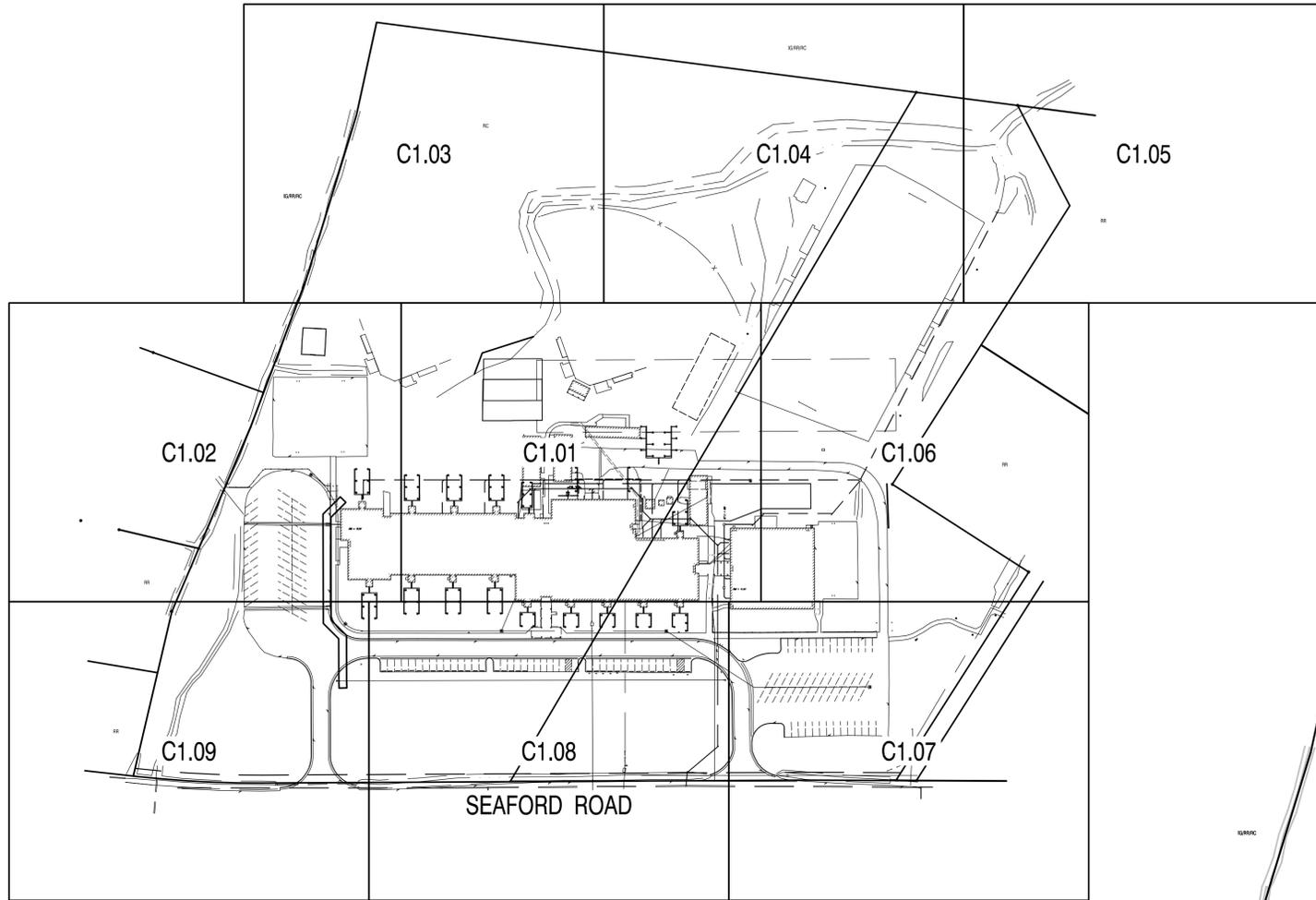


STORM SEWER
SCHEDULE

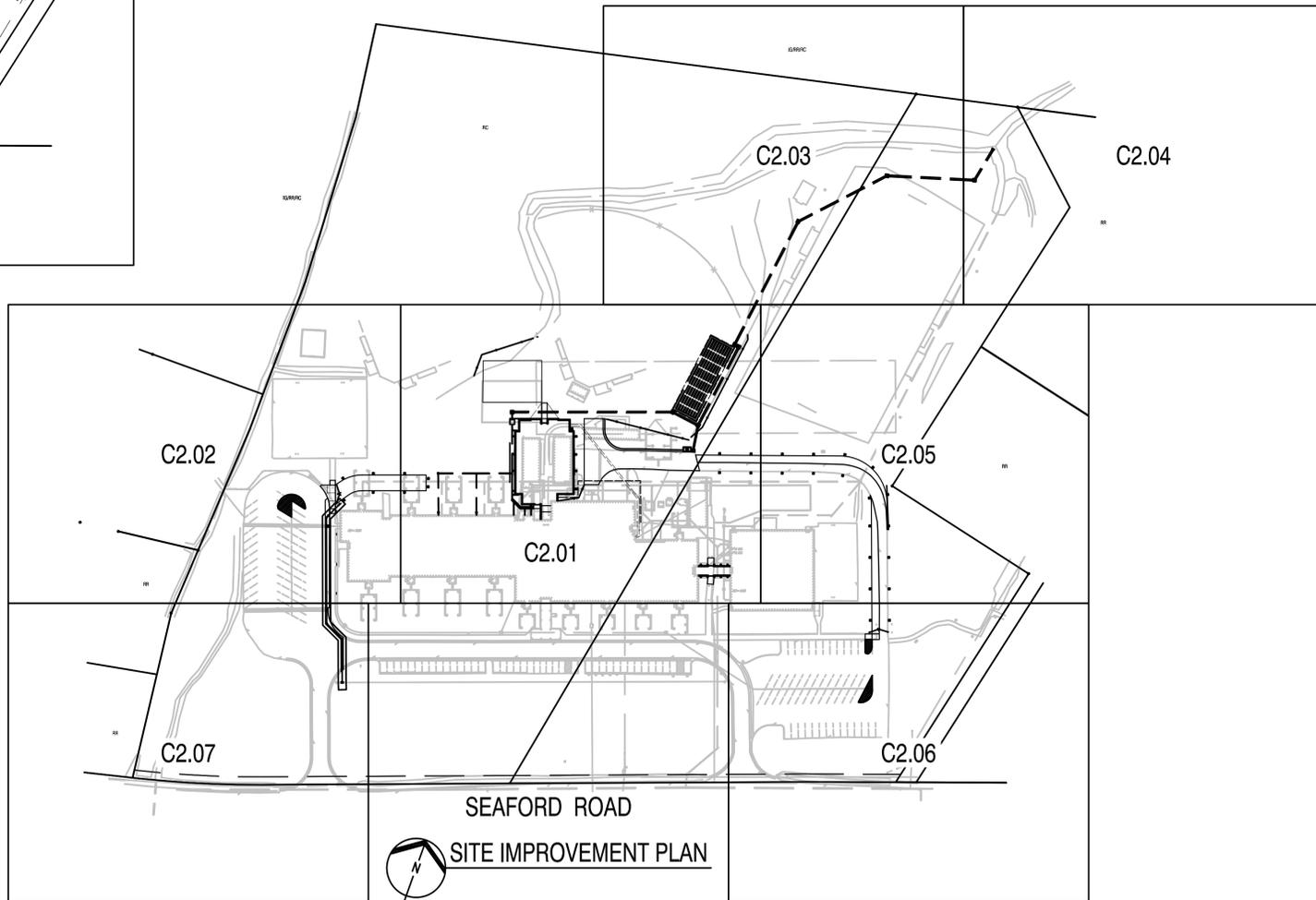
JOB NUMBER 1302

CO.03

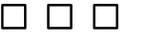
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ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA



 EXISTING CONDITIONS / DEMOLITION / EROSION CONTROL PLAN

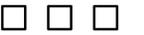


 SITE IMPROVEMENT PLAN



SEAFORD ELEMENTARY
SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



OCTOBER 07, 2013

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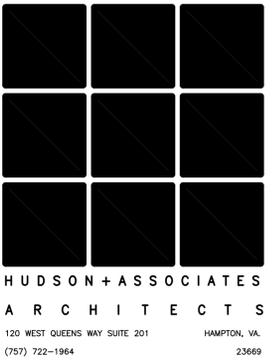


OVERALL KEY PLANS

JOB NUMBER 1302

C0.04

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OCTOBER 07, 2013

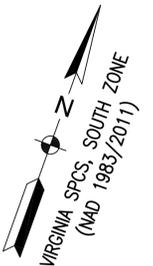
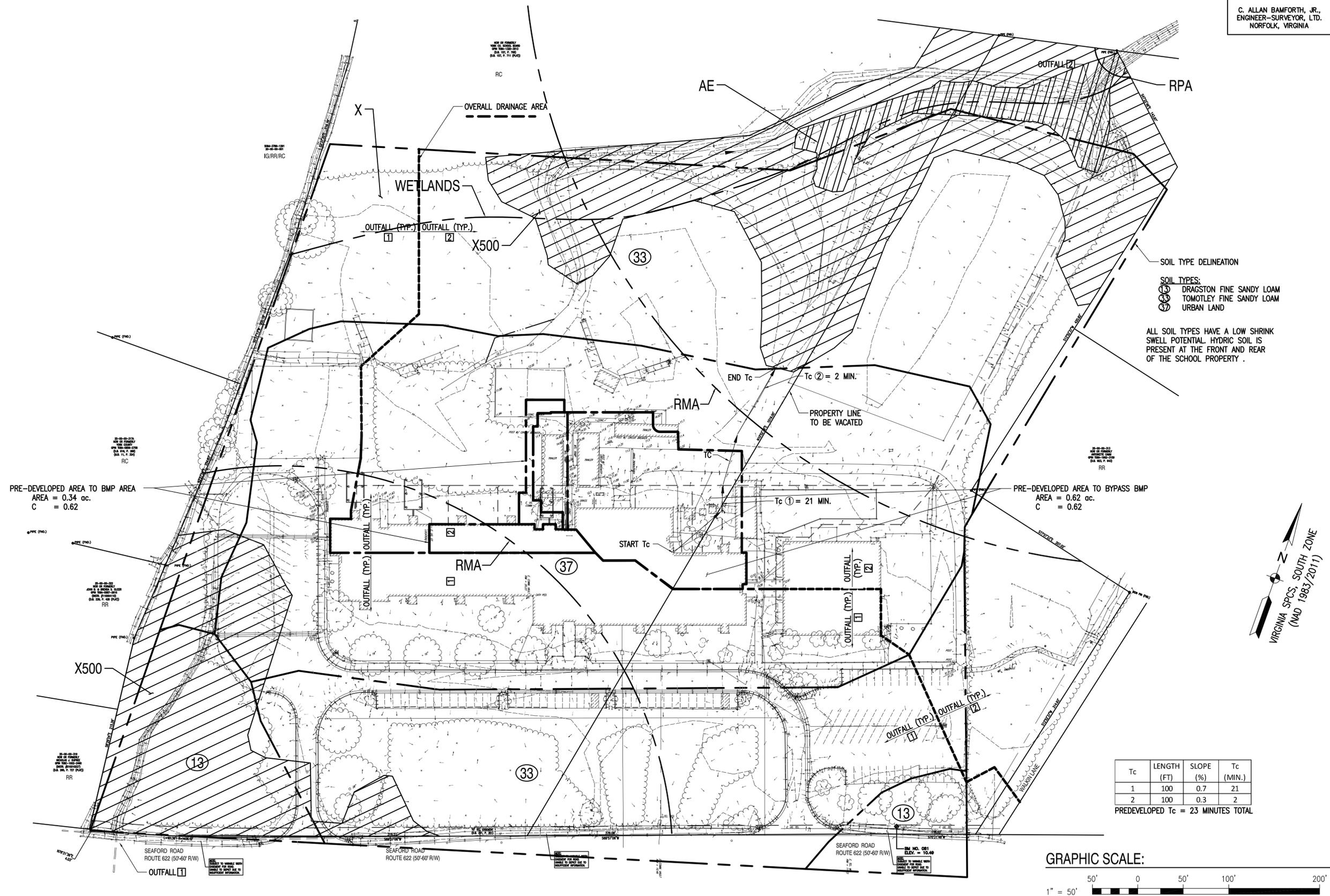
REV. DESCRIPTION DATE
1 WHOLE SHEET REVISION 12/05/2013



PRE-DEVELOPED
DRAINAGE AREA
MAP

JOB NUMBER 1302

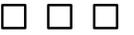
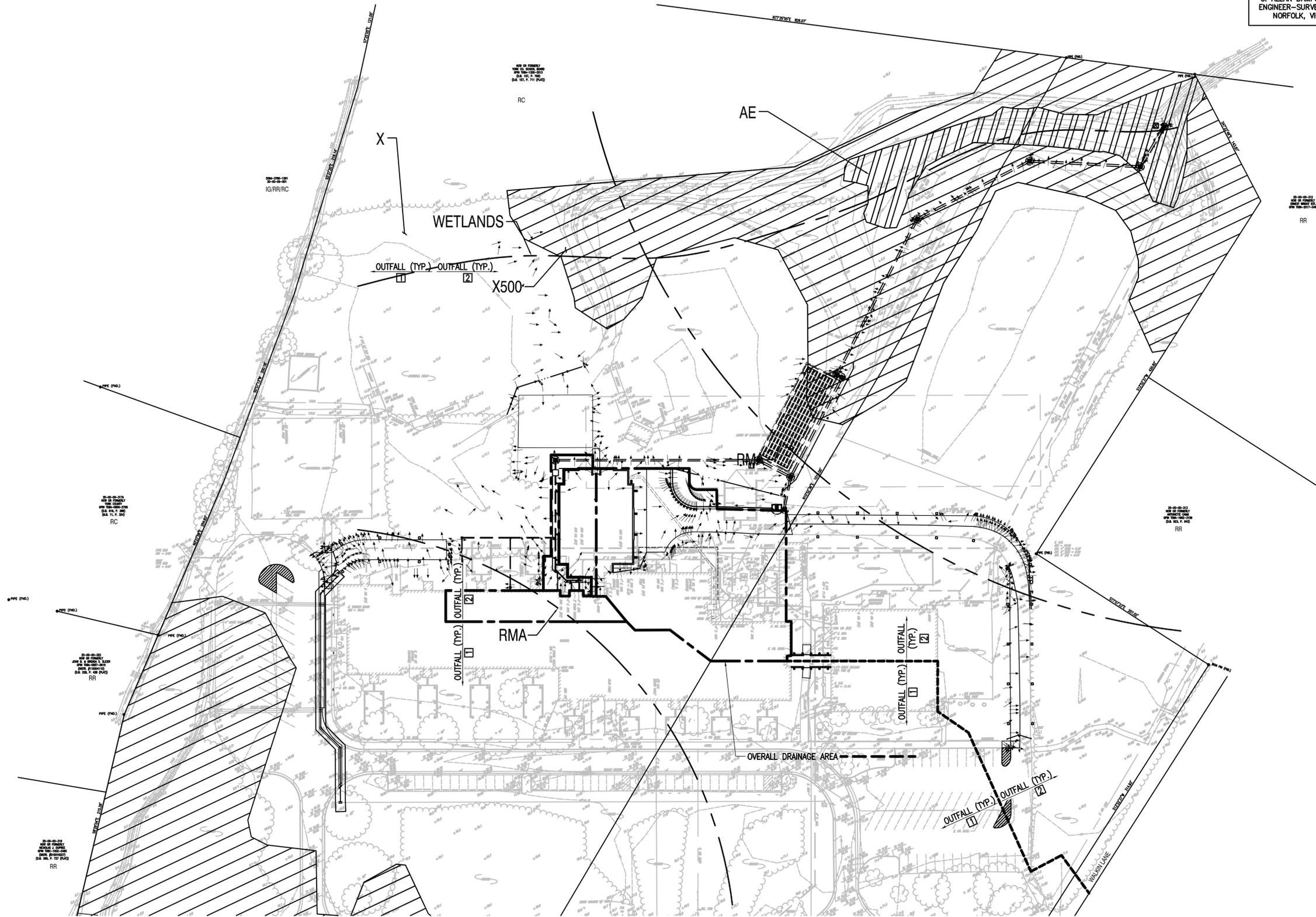
C0.05



VIRGINIA SPCS, SOUTH ZONE
(MAD 1983/2011)

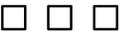
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ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

HUDSON+ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201
HAMPTON, VA.
(757) 722-1964 23669



SEAFORD ELEMENTARY
SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



OCTOBER 07, 2013

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POST-DEVELOPED
DRAINAGE AREA
MAP

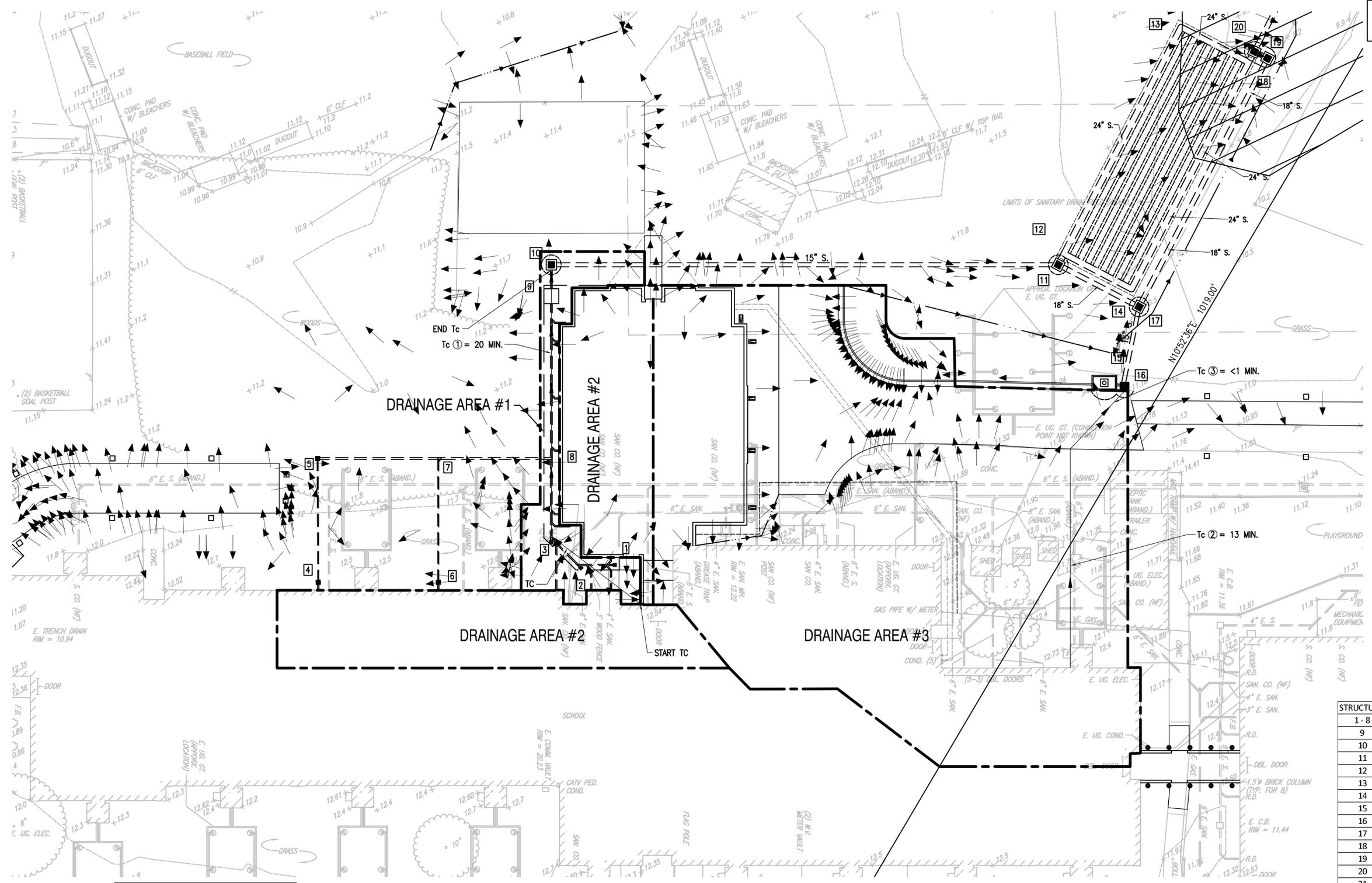
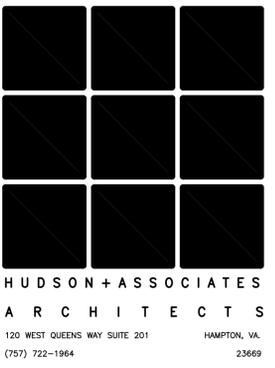
GRAPHIC SCALE:



JOB NUMBER 1302

C0.06

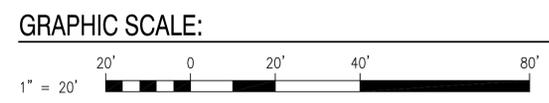
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NORFOLK, VIRGINIA



DRAINAGE AREA	AREA (AC.)	C
1	0.06	0.20
2	0.28	0.90
3	0.62	0.79
FILTERRA (9)	0.28	0.90
FILTERRA (15)	0.60	0.70
BMP (D.A. 1&2)	0.34	0.79
BYPASS (D.A. 3)	0.62	0.73

DRAINAGE AREA	Tc	LENGTH (FT)	SLOPE (%)	Tc (MIN.)
1	1	120	0.7	20
2	-	-	-	5 (min.)
3	2	100	1.4	13
	3	-	-	0

STRUCTURE	Tc (MIN.)
1 - 8	5 (Minimum)
9	BMP
10	20
11	21
12	21
13	BMP
14	BMP
15	BMP
16	13
17	21.2
18	BMP
19	21.9
20	22
21	23.1
22	23.9
23	24.6



SEAFORD ELEMENTARY
SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



OCTOBER 07, 2013

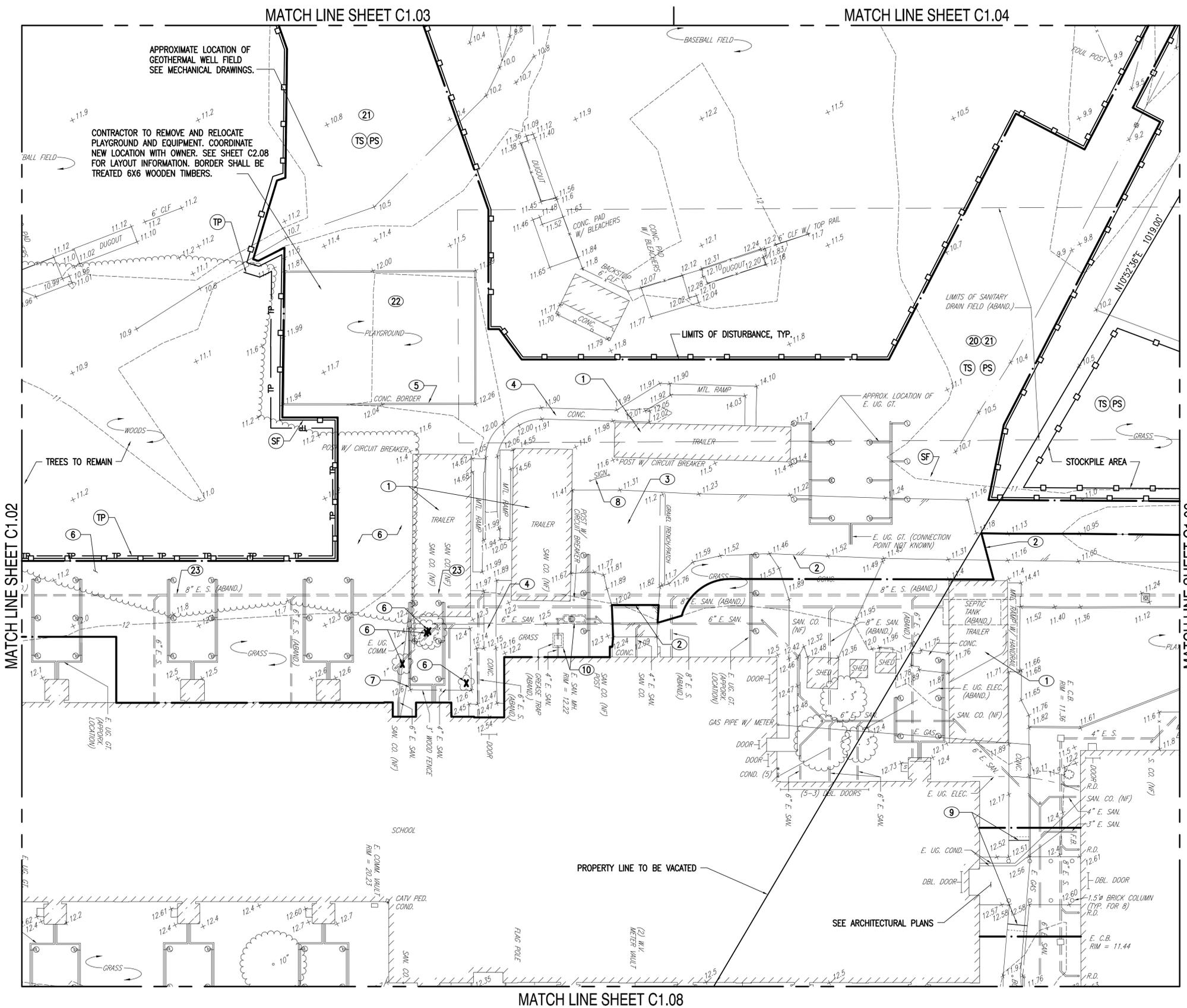
REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013



POST-DEVELOPED
DRAINAGE AREA
MAP - PROJECT AREA

JOB NUMBER 1302

CO.07



C. ALLAN BAMFORTH, JR.,
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NORFOLK, VIRGINIA

DEMOLITION NOTES:

- ① MOBILE CLASSROOMS, RAMPS, FOUNDATIONS AND ALL UTILITY CONNECTIONS WILL BE REMOVED PRIOR TO START OF THIS CONTRACT
- ② SAW CUT BITUMINOUS PAVEMENT
- ③ REMOVE BITUMINOUS PAVEMENT
- ④ REMOVE CONCRETE SIDEWALK
- ⑤ REMOVE CONCRETE BORDER
- ⑥ REMOVE TREE(S) & STUMPS, BACKFIL HOLES
- ⑦ REMOVE FENCE
- ⑧ REMOVE SIGN & POSTS
- ⑨ SAW CUT CONCRETE SIDEWALK
- ⑩ REMOVE GREASE TRAP (SEE PLUMBING DRAWINGS)
- ⑳ CONTRACTOR TO REMOVE ABANDONED DRAIN FIELD PIPE AND STONE AS NEEDED TO INSTALL UNDERGROUND BMP.
- ㉑ STRIP TOP SOIL (APPROX 4") AND STOCKPILE FOR REUSE.
- ㉒ REMOVE AND SALVAGE PLAYGROUND EQUIPMENT FOR REINSTALLATION
- ㉓ REMOVE EXISTING PIPE AS NEEDED TO INSTALL NEW WORK

EROSION CONTROL NOTES:

- (SF) SILT FENCE (SF-3.05)
- (TP) TREE PROTECTION (TP-3.38) (LOCATED 5' OUTSIDE DRIP LINE)
- (CE) CONSTRUCTION ENTRANCE (CE-3.02)
- (TS) TEMPORARY SEEDING (TS 3.31)
- (PS) PERMANENT SEEDING (PS 3.32)

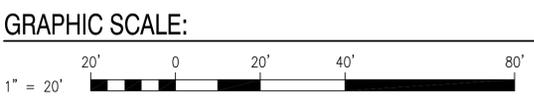
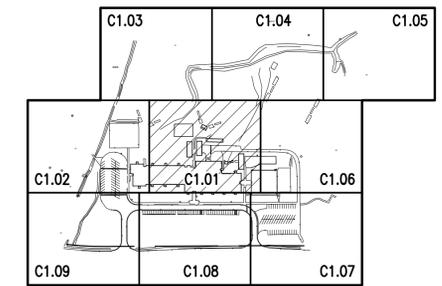
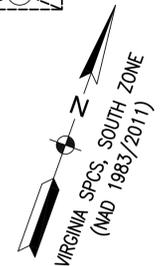


SEAFORD ELEMENTARY SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



REV	DESCRIPTION	DATE
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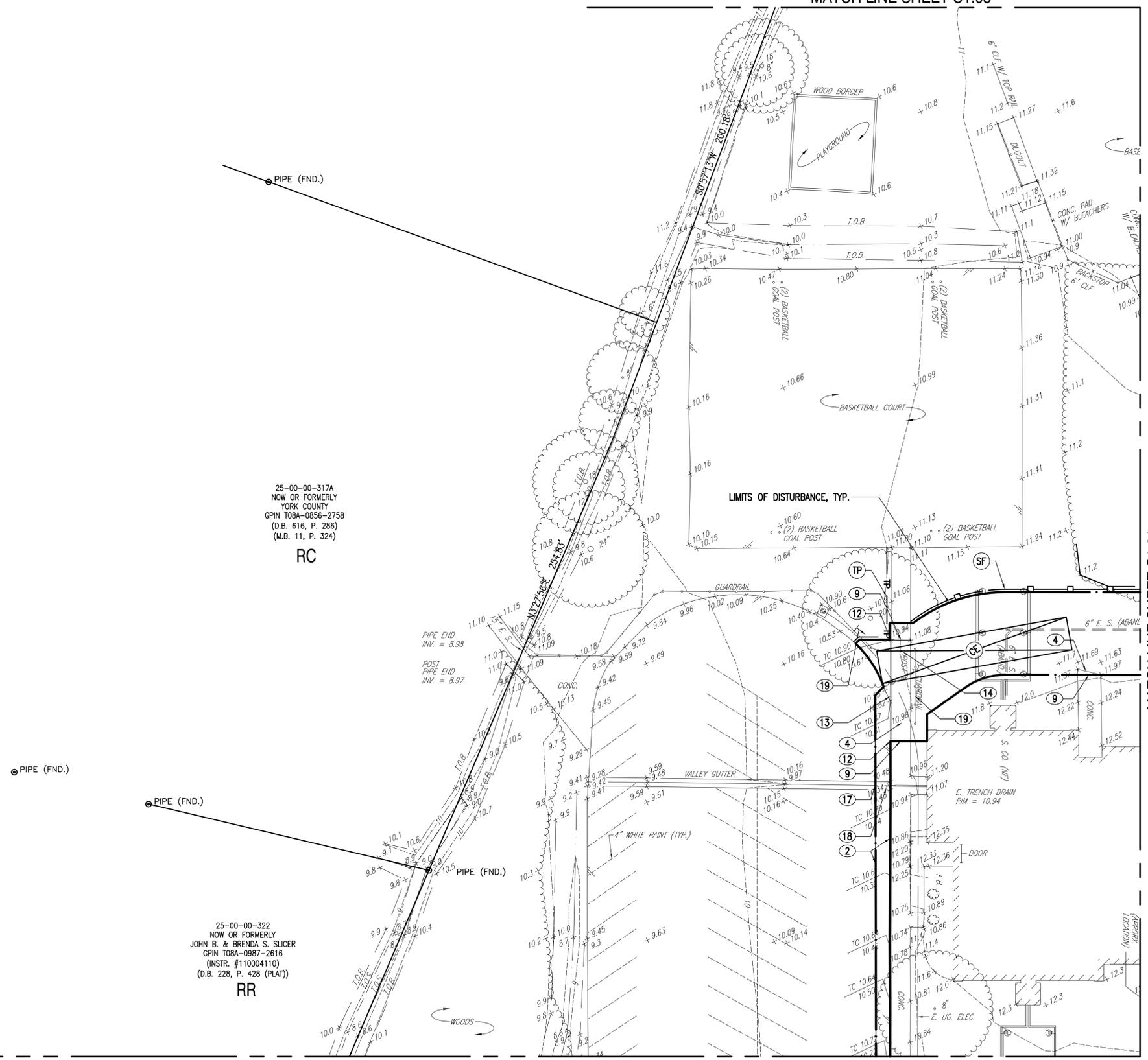


EXISTING CONDITIONS /
DEMOLITION / EROSION
CONTROL PLAN

JOB NUMBER 1302

C1.01

MATCH LINE SHEET C1.03



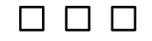
25-00-00-317A
NOW OR FORMERLY
YORK COUNTY
CPIN TO8A-0856-2758
(D.B. 616, P. 286)
(M.B. 11, P. 324)
RC

25-00-00-322
NOW OR FORMERLY
JOHN B. & BRENDA S. SLICER
CPIN TO8A-0987-2616
(INSTR. #110004110)
(D.B. 228, P. 428 (PLAT))
RR

DEMOLITION NOTES:

- ② SAWCUT BITUMINOUS PAVEMENT
- ④ REMOVE CONCRETE SIDEWALK
- ⑨ SAW CUT CONCRETE SIDEWALK
- ⑬ SAW CUT CONCRETE CURB
- ⑬ REMOVE CONCRETE CURB
- ⑭ REMOVE POST AND GATE
- ⑰ SAWCUT VALLEY GUTTER
- ⑱ REMOVE VALLEY GUTTER
- ⑲ REMOVE GUARDRAIL (12" X 12" CONCRETE POST @ 8± & 8 X 8 TIMBER RAIL)

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA



SEAFORD ELEMENTARY SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



EROSION CONTROL NOTES:

- (SF) SILT FENCE (SF-3.05)
- (TP) TREE PROTECTION (TP-3.38)
- (CE) CONSTRUCTION ENTRANCE (CE-3.02)



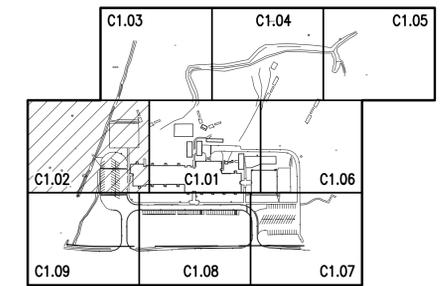
OCTOBER 07, 2013

REV	DESCRIPTION	DATE
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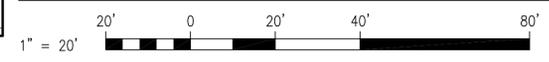
EXISTING CONDITIONS /
DEMOLITION / EROSION
CONTROL PLAN

JOB NUMBER 1302

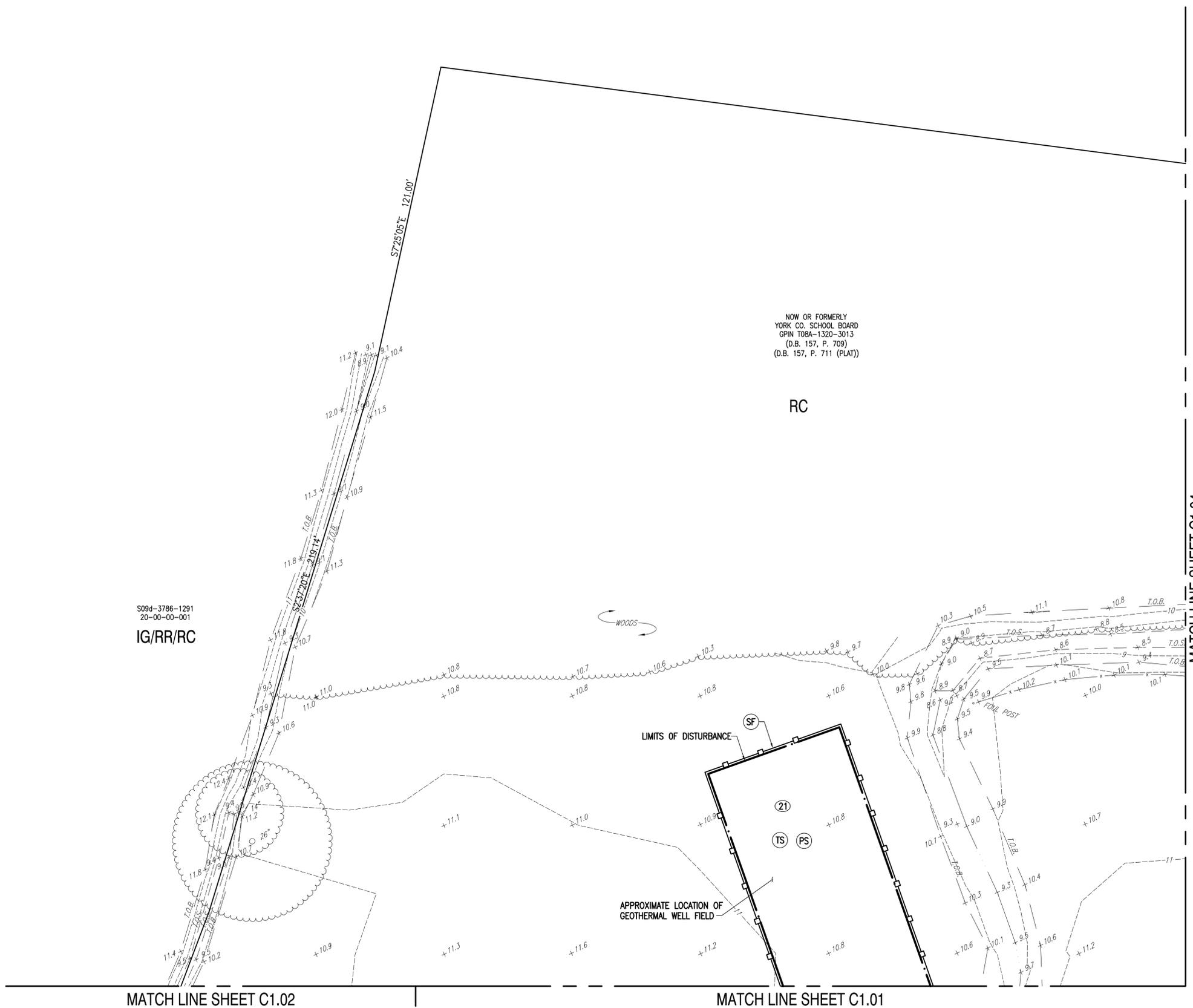


KEY MAP

GRAPHIC SCALE:



C1.02



S094-3786-1291
20-00-00-001
IG/RR/RC

NOW OR FORMERLY
YORK CO. SCHOOL BOARD
GPIN T08A-1320-3013
(D.B. 157, P. 709)
(D.B. 157, P. 711 (PLAT))

RC

WOODS

APPROXIMATE LOCATION OF
GEOTHERMAL WELL FIELD

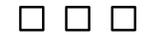
DEMOLITION NOTES:

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

- (21) STRIP TOP SOIL (APPROX 4") AND STOCKPILE FOR REUSE.

EROSION CONTROL NOTES:

- (SF) SILT FENCE (SF-3.05)
- (TS) TEMPORARY SEEDING (TS 3.31)
- (PS) PERMANENT SEEDING (PS 3.32)



SEAFORD ELEMENTARY
SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
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EXISTING CONDITIONS /
DEMOLITION / EROSION
CONTROL PLAN

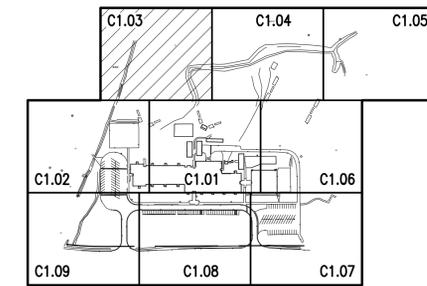
JOB NUMBER 1302

C1.03

MATCH LINE SHEET C1.04

MATCH LINE SHEET C1.02

MATCH LINE SHEET C1.01



KEY MAP

GRAPHIC SCALE:



C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

20-00-00-001
NOW OR FORMERLY
THE NATURE CONSERVANCY
GPIN S09d-3786-1291
(INSTR. #060011026)
(INSTR. #060011025 (PLAT))
IG/RR/RC

HUDSON+ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201
HAMPTON, VA. 23669
(757) 722-1964



**SEAFORD ELEMENTARY
SCHOOL ADDITION**

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



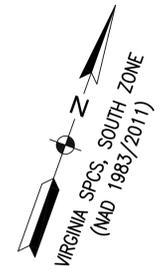
EROSION CONTROL NOTES:

- (SF) SILT FENCE (SF-3.05)
- (TS) TEMPORARY SEEDING (TS 3.31)
- (PS) PERMANENT SEEDING (PS 3.32)



OCTOBER 07, 2013

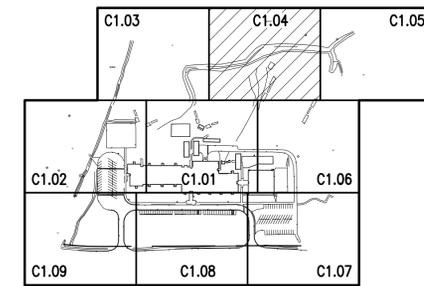
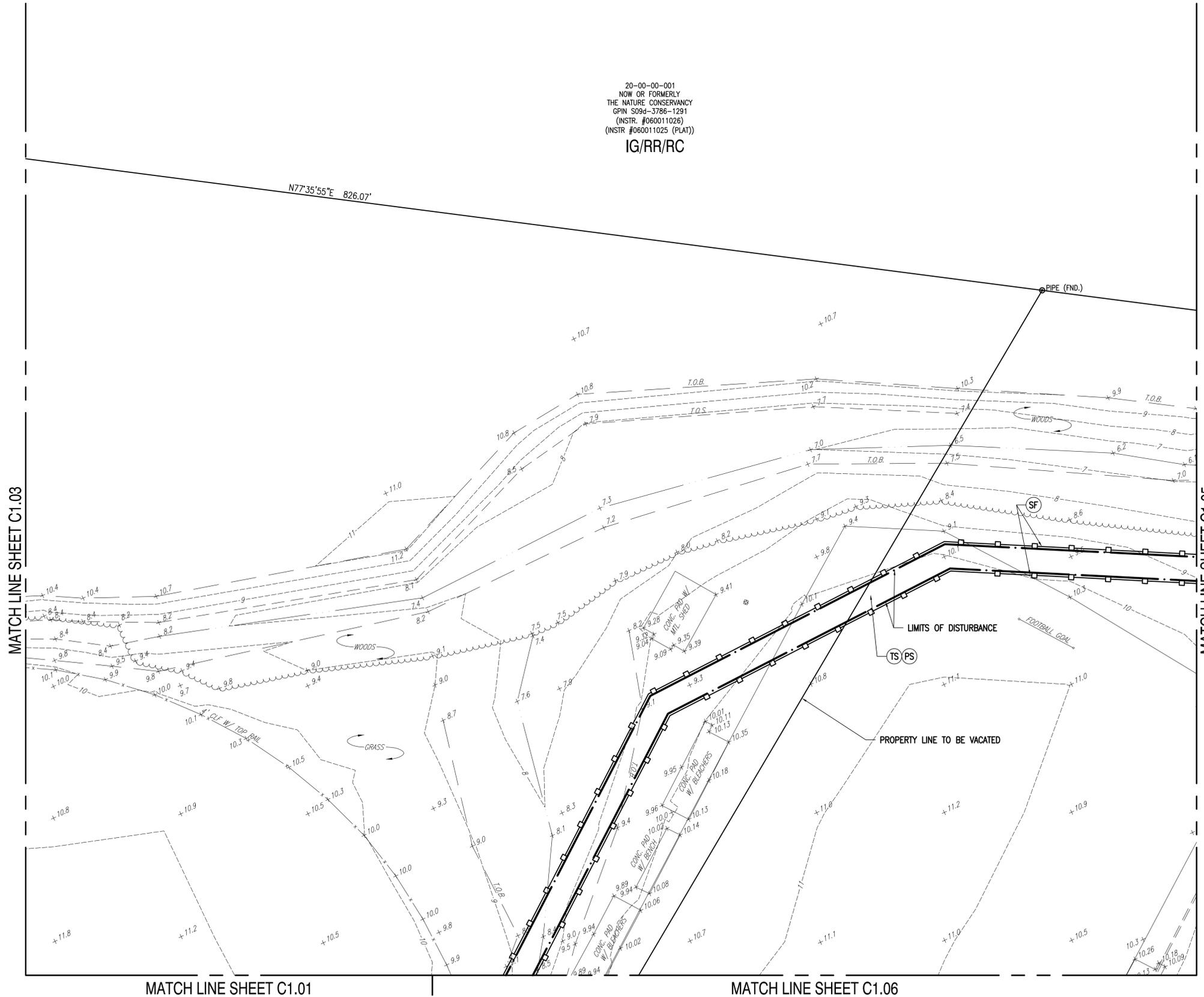
REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013



EXISTING CONDITIONS /
DEMOLITION / EROSION
CONTROL PLAN

JOB NUMBER 1302

C1.04



KEY MAP

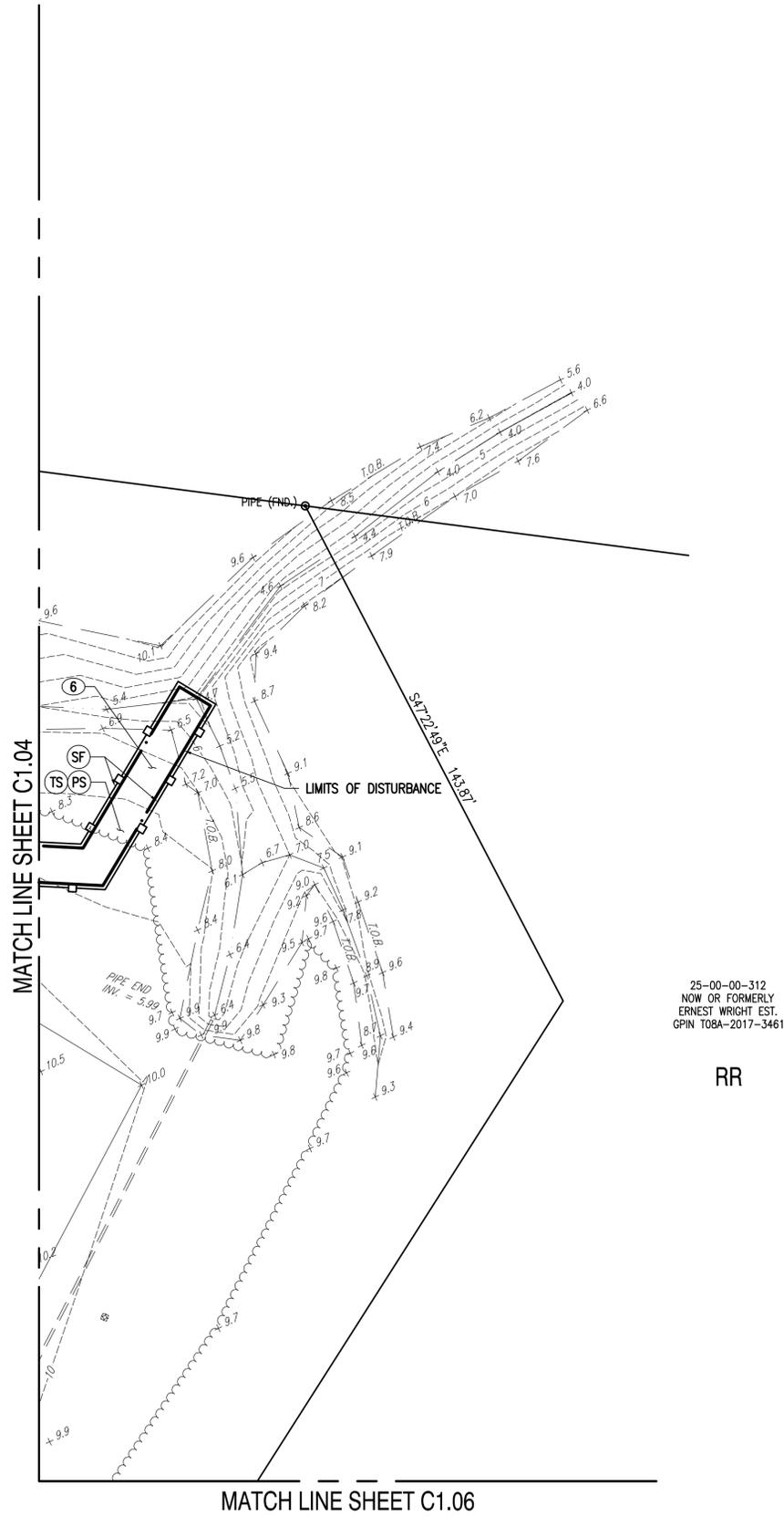


MATCH LINE SHEET C1.03

MATCH LINE SHEET C1.05

MATCH LINE SHEET C1.01

MATCH LINE SHEET C1.06



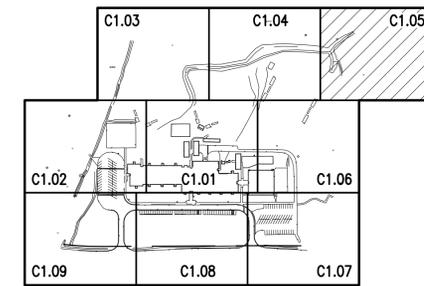
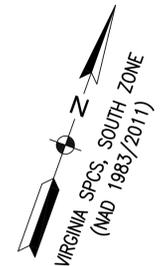
DEMOLITION NOTES:

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

- ⑥ REMOVE TREE(S) & STUMPS, BACKFIL HOLES

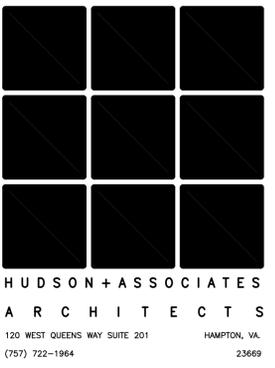
EROSION CONTROL NOTES:

- ⊠ SILT FENCE (SF-3.05)
- ⊙ TEMPORARY SEEDING (TS 3.31)
- ⊙ PERMANENT SEEDING (PS 3.32)



KEY MAP

GRAPHIC SCALE:



**SEAFORD ELEMENTARY
SCHOOL ADDITION**

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



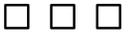
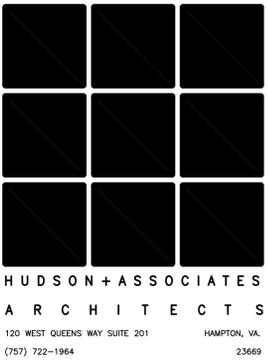
REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013

EXISTING CONDITIONS /
DEMOLITION / EROSION
CONTROL PLAN

JOB NUMBER 1302

C1.05

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA



SEAFORD ELEMENTARY
SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



EROSION CONTROL NOTES:

- (SF) SILT FENCE (SF-3.05) — □ —
- (TP) TREE PROTECTION (TP-3.38) — TP —
(LOCATED 5' OUTSIDE DRIP LINE)
- (TS) TEMPORARY SEEDING (TS 3.31)
- (PS) PERMANENT SEEDING (PS 3.32)



OCTOBER 07, 2013

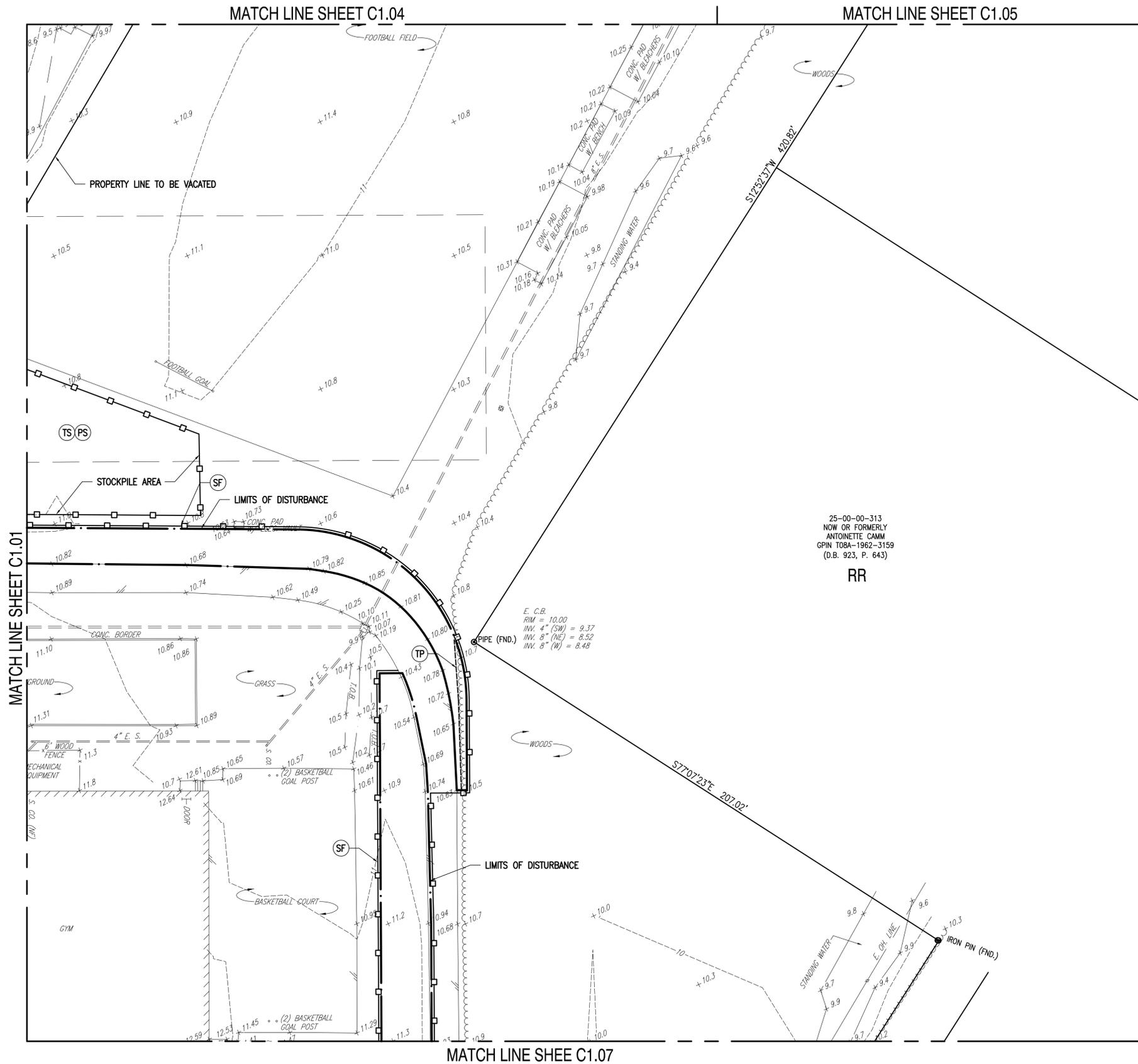
REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013



EXISTING CONDITIONS /
DEMOLITION / EROSION
CONTROL PLAN

JOB NUMBER 1302

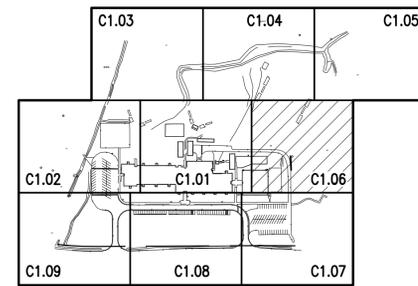
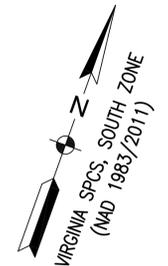
C1.06



25-00-00-313
NOW OR FORMERLY
ANTOINETTE CAMM
GPIN 108A-1962-3159
(D.B. 923, P. 643)

RR

E. C.B.
RIM = 10.00
INV. 4" (SW) = 9.37
INV. 8" (NE) = 8.52
INV. 8" (W) = 8.48

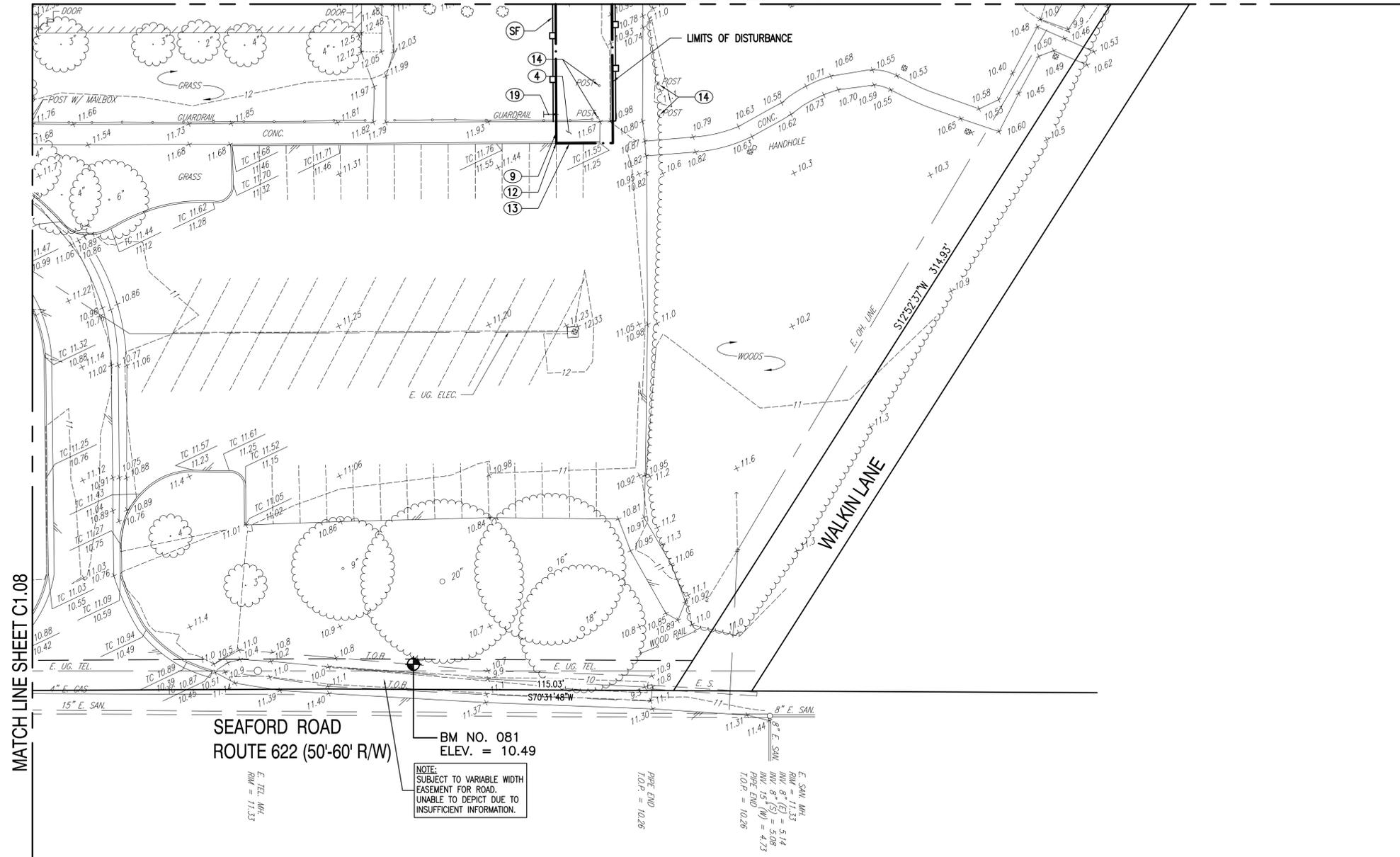


KEY MAP

GRAPHIC SCALE:



MATCH LINE SHEET C1.06

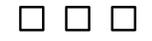


MATCH LINE SHEET C1.08

DEMOLITION NOTES:

- ④ REMOVE CONCRETE SIDEWALK
- ⑨ SAW CUT CONCRETE SIDEWALK
- ⑫ SAW CUT CONCRETE CURB
- ⑬ REMOVE CONCRETE CURB
- ⑭ REMOVE POSTS AND GATE
- ⑰ REMOVE GUARDRAIL (12" X 12" CONCRETE POST @ 8± & 8 X 8 TIMBER RAIL)

C. ALLAN BAMFORTH, JR.,
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NORFOLK, VIRGINIA



SEAFORD ELEMENTARY SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT

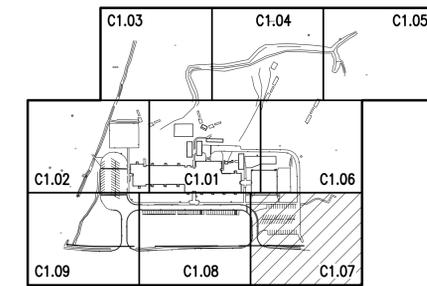
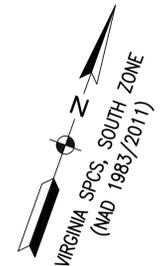


EROSION CONTROL NOTES:

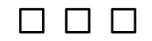
- (SF) SILT FENCE (SF-3.05) —□—



OCTOBER 07, 2013
REV. DESCRIPTION DATE
1 WHOLE SHEET REVISION 12/05/2013



KEY MAP



EXISTING CONDITIONS /
DEMOLITION / EROSION
CONTROL PLAN

GRAPHIC SCALE:



JOB NUMBER 1302

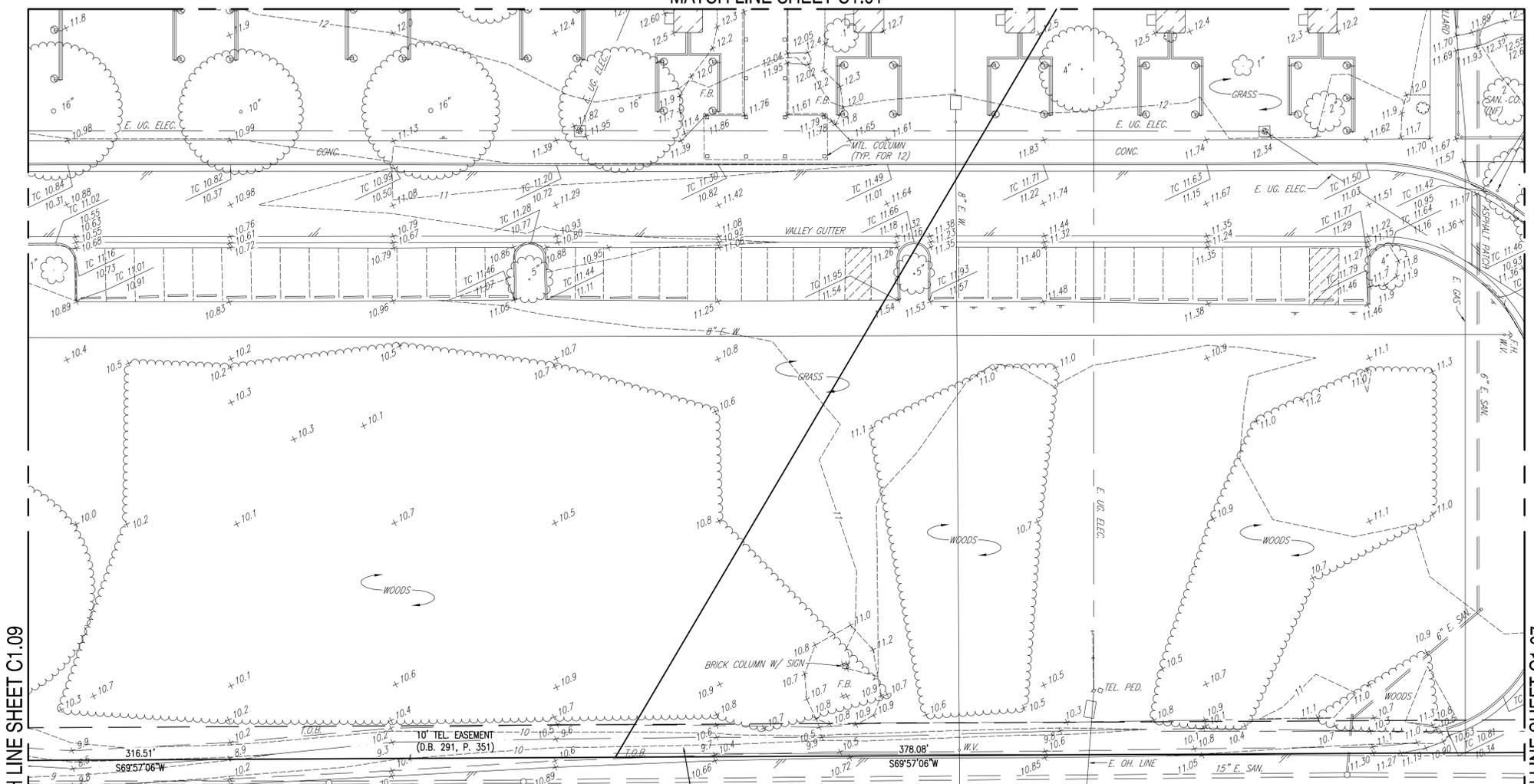
C1.07

MATCH LINE SHEET C1.01

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

NO DEMOLITION OR
EROSION CONTROL
ON THIS SHEET

HUDSON+ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
(757) 722-1964 23669

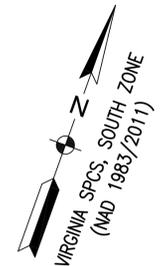


MATCH LINE SHEET C1.09

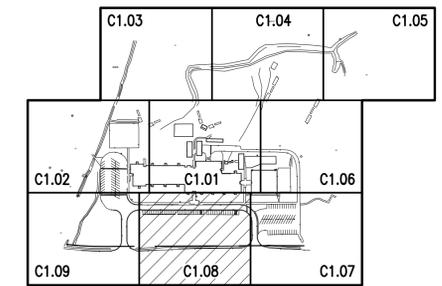
MATCH LINE SHEET C1.07

SEAFORD ROAD
ROUTE 622 (50'-60' R/W)

NOTE:
SUBJECT TO VARIABLE WIDTH
EASEMENT FOR ROAD.
UNABLE TO DEPICT DUE TO
INSUFFICIENT INFORMATION.



REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013



KEY MAP

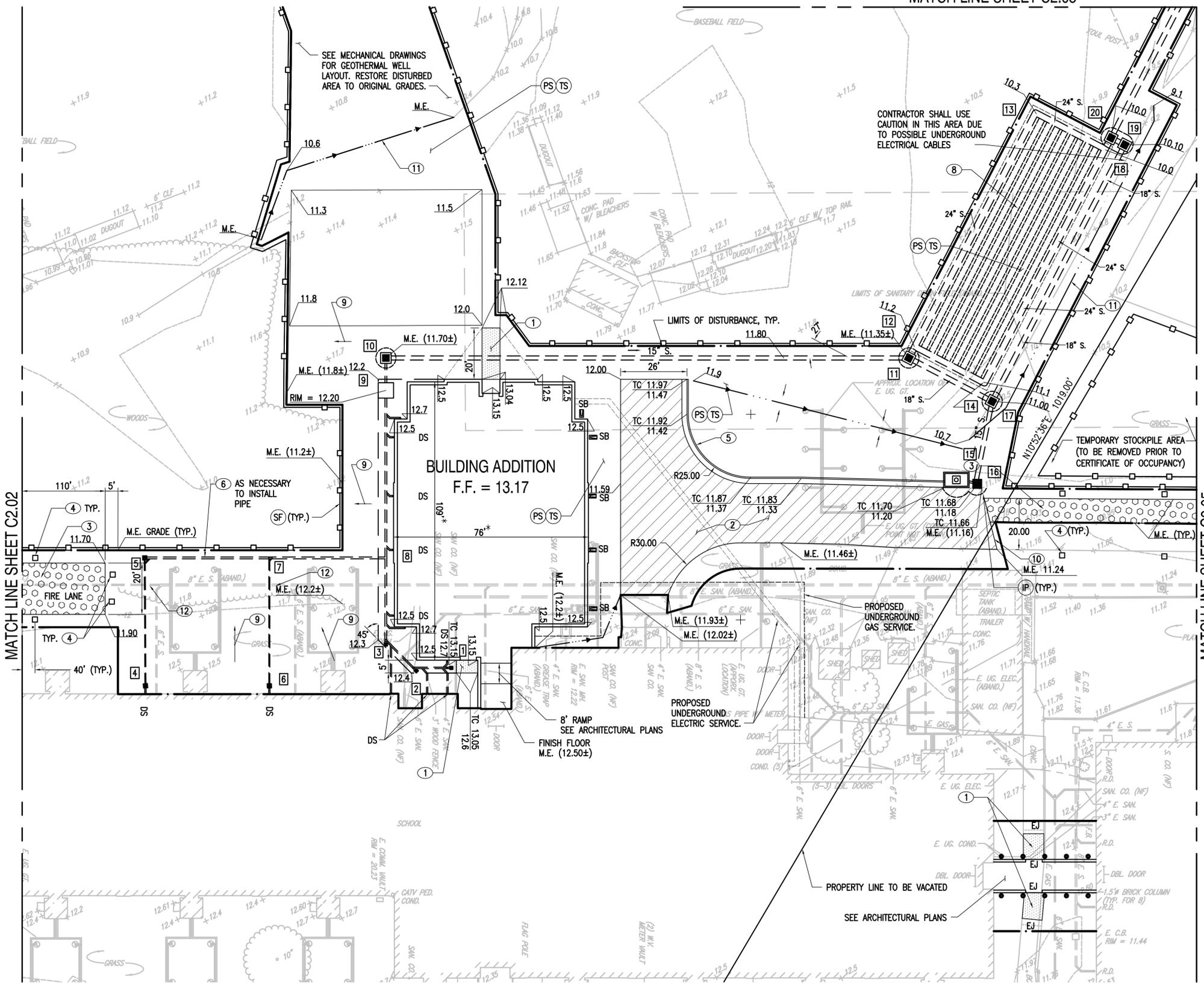


EXISTING CONDITIONS /
DEMOLITION / EROSION
CONTROL PLAN

JOB NUMBER 1302

C1.08

MATCH LINE SHEET C2.03



C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

KEY NOTES:

- ① CONCRETE STOOP
- ② BITUMINOUS PAVEMENT
- ③ REINFORCED EARTH
- ④ FIRE LANE MARKER
- ⑤ CURB AND GUTTER
- ⑧ UNDERGROUND PIPED DETENTION AREA (BMP)
- ⑨ GRADE TO DRAIN
- ⑩ PAVEMENT INTERFACE
- ⑪ RELOCATED SWALE
- ⑫ REMOVE PIPE AS NEEDED TO INSTALL NEW STORM

NOTE:

* BUILDING DIMENSIONS SHOWN ARE FOR ZONING INFORMATION ONLY AND NOT TO BE USED FOR CONSTRUCTION.

SEE SHEET C0.03 FOR STORM SEWER SCHEDULE.
SEE SHEET C3.01 FOR STORM SEWER PROFILE.
SEE SHEET C5.05 FOR UNDERGROUND PIPED DETENTION BMP AREA CROSS-SECTION

EROSION CONTROL NOTES:

- (SF) SILT FENCE (SF-3.05)
- (IP) INLET PROTECTION (IP-3.07)
- (OP) CURB INLET PROTECTION (IP-3.07)
- (TS) TEMPORARY SEEDING (TS 3.31)
- (PS) PERMANENT SEEDING (PS 3.32)

UTILITIES NOTE:

ALL EXISTING AND PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND.
PROPOSED MECHANICAL UNITS ARE LOCATED ON THE ROOF TOP.

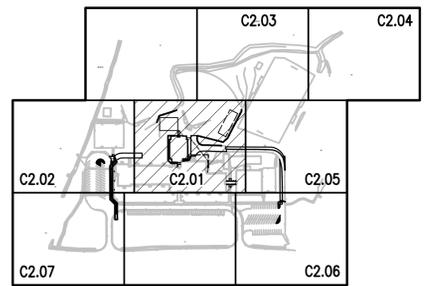
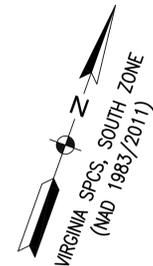


SEAFORD ELEMENTARY SCHOOL ADDITION

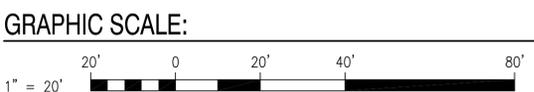
1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



OCTOBER 07, 2013
REV. DESCRIPTION DATE
1 WHOLE SHEET REVISION 12/05/2013



KEY MAP



□ □ □
SITE IMPROVEMENT PLAN

JOB NUMBER 1302

C2.01

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA



KEY NOTES:

- ③ REINFORCED EARTH
- ④ FIRE LANE MARKER
- ⑦ CONCRETE PAVEMENT (SEE JOINT PLAN ON C5.03)
- ⑧ PAINTED ISLAND (WHITE) (REMOVE EXISTING MARKING)
- ⑨ TURNED DOWN EDGE SIDEWALK
- ⑪ DOUBLE SWING GATE
- ⑫ SIGN "FIRE LANE - NO PARKING ANYTIME"
- ⑬ CONCRETE VALLEY GUTTER
- ⑭ BITUMINOUS PAVEMENT PATCH

WATER NOTES:

- Ⓑ 8" - 45° BEND W/ RESTRAINED JOINTS
- Ⓒ 8" X 6" REDUCER
6" VALVE W/ BOX
4 1/2" FIRE HYDRANT

JOINT RESTRAINT NOTE

1. ALL FITTINGS SHALL HAVE RESTRAINED TYPE JOINTS.
2. IN ADDITION TO RESTRAINED JOINTS AT FITTINGS, THE FOLLOWING MINIMUM LENGTHS OF PIPE SHALL BE PROVIDED WITH RESTRAINED JOINTS ON EACH SIDE OF THE FITTING, UNLESS OTHERWISE SPECIFIED.

HORIZONTAL FITTINGS (DUCTILE IRON PIPE):
8" 45 DEGREE BEND: 9 FEET
8" X 6" REDUCER: 20 FEET

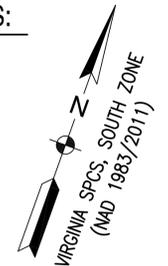
RESTRAINT LENGTHS COMPUTED FROM THE EBBA IRON WEBSITE PROGRAM USING THE "SM" SOIL DESIGNATION, A BURY DEPTH OF 3 FEET, 150 PSI TEST PRESSURE AND A TYPE "S" DITCH, WHICH IS SIMILAR TO THE ONE THAT WILL BE USED.

EROSION CONTROL NOTES:

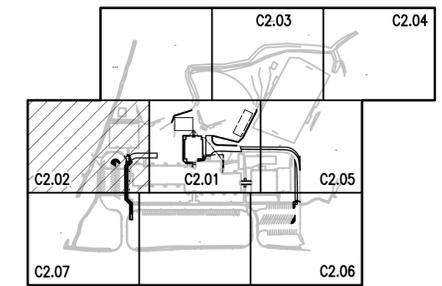
- Ⓢ SILT FENCE (SF-3.05)
- ⓉS TEMPORARY SEEDING (TS 3.31)
- ⓅS PERMANENT SEEDING (PS 3.32)

UTILITIES NOTE:

ALL EXISTING AND PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND.

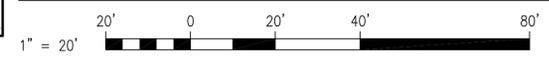


OCTOBER 07, 2013
REV. DESCRIPTION. DATE
1 WHOLE SHEET REVISION 12/05/2013



KEY MAP

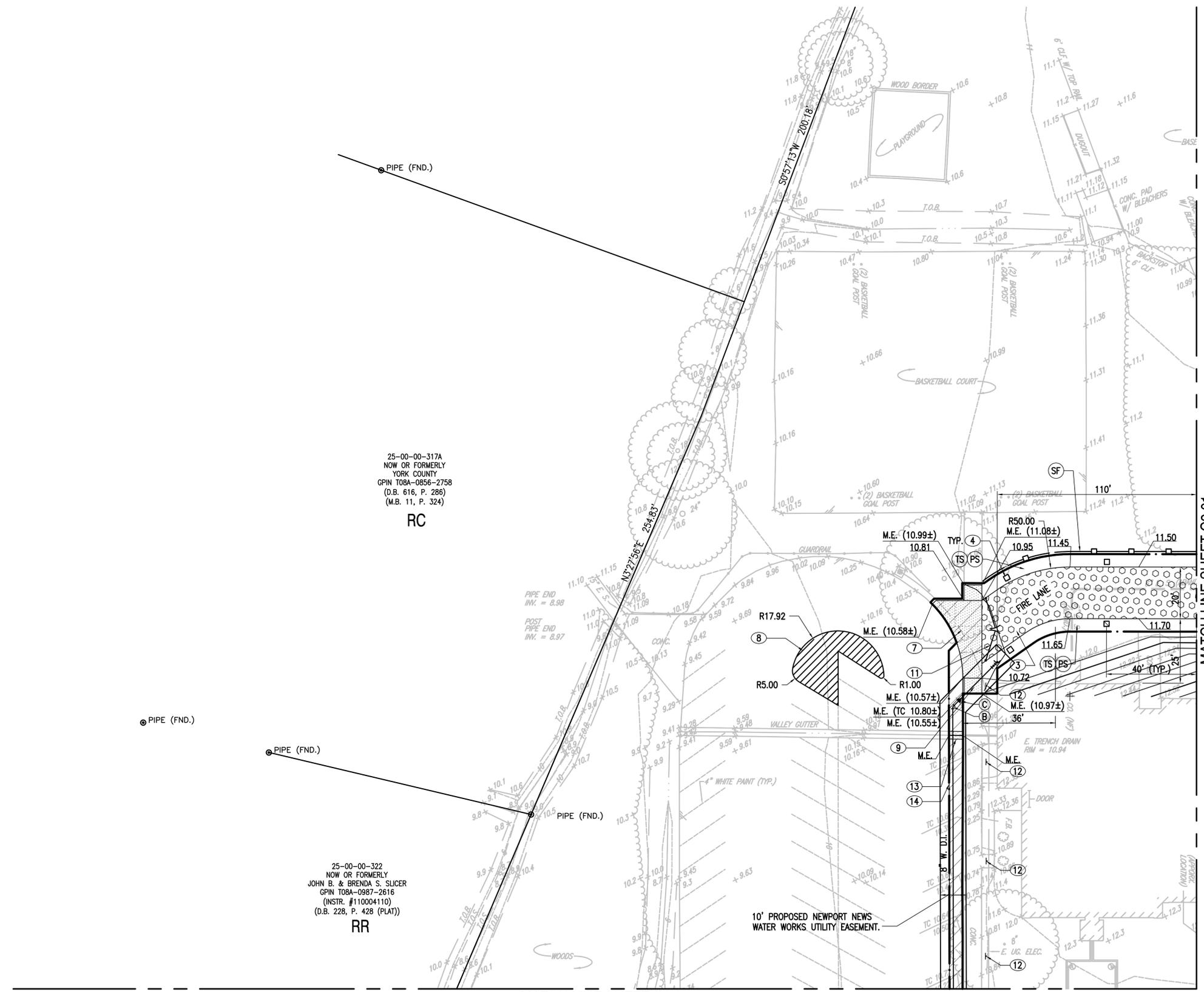
GRAPHIC SCALE:



□ □ □
SITE IMPROVEMENT
PLAN

JOB NUMBER 1302

C2.02



25-00-00-317A
NOW OR FORMERLY
YORK COUNTY
GPN TOBA-0856-2758
(D.B. 616, P. 286)
(M.B. 11, P. 324)
RC

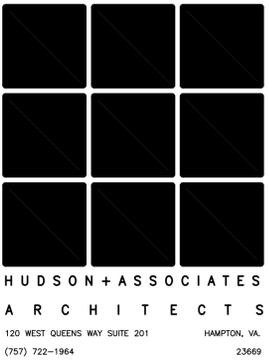
25-00-00-322
NOW OR FORMERLY
JOHN B. & BRENDA S. SLICER
GPN TOBA-0987-2616
(INSTR. #110004110)
(D.B. 228, P. 428 (PLAT))
RR

MATCH LINE SHEET C2.07

MATCH LINE SHEET C2.01

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

20-00-00-001
NOW OR FORMERLY
THE NATURE CONSERVANCY
GPIN S09d-3786-1291
(INSTR. #060011026)
(INSTR. #060011025 (PLAT))
IG/RR/RC



**SEAFORD ELEMENTARY
SCHOOL ADDITION**

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT

SEE SHEET C0.03 FOR STORM SEWER SCHEDULE.

SEE SHEET C3.01 FOR STORM SEWER PROFILE.



EROSION CONTROL NOTES:

- (SF) SILT FENCE (SF-3.05)
- (IP) INLET PROTECTION (IP-3.07)
- (TS) TEMPORARY SEEDING (TS 3.31)
- (PS) PERMANENT SEEDING (PS 3.32)

UTILITIES NOTE:

ALL EXISTING AND PROPOSED
UTILITIES SHALL BE PLACED
UNDERGROUND.



OCTOBER 07, 2013

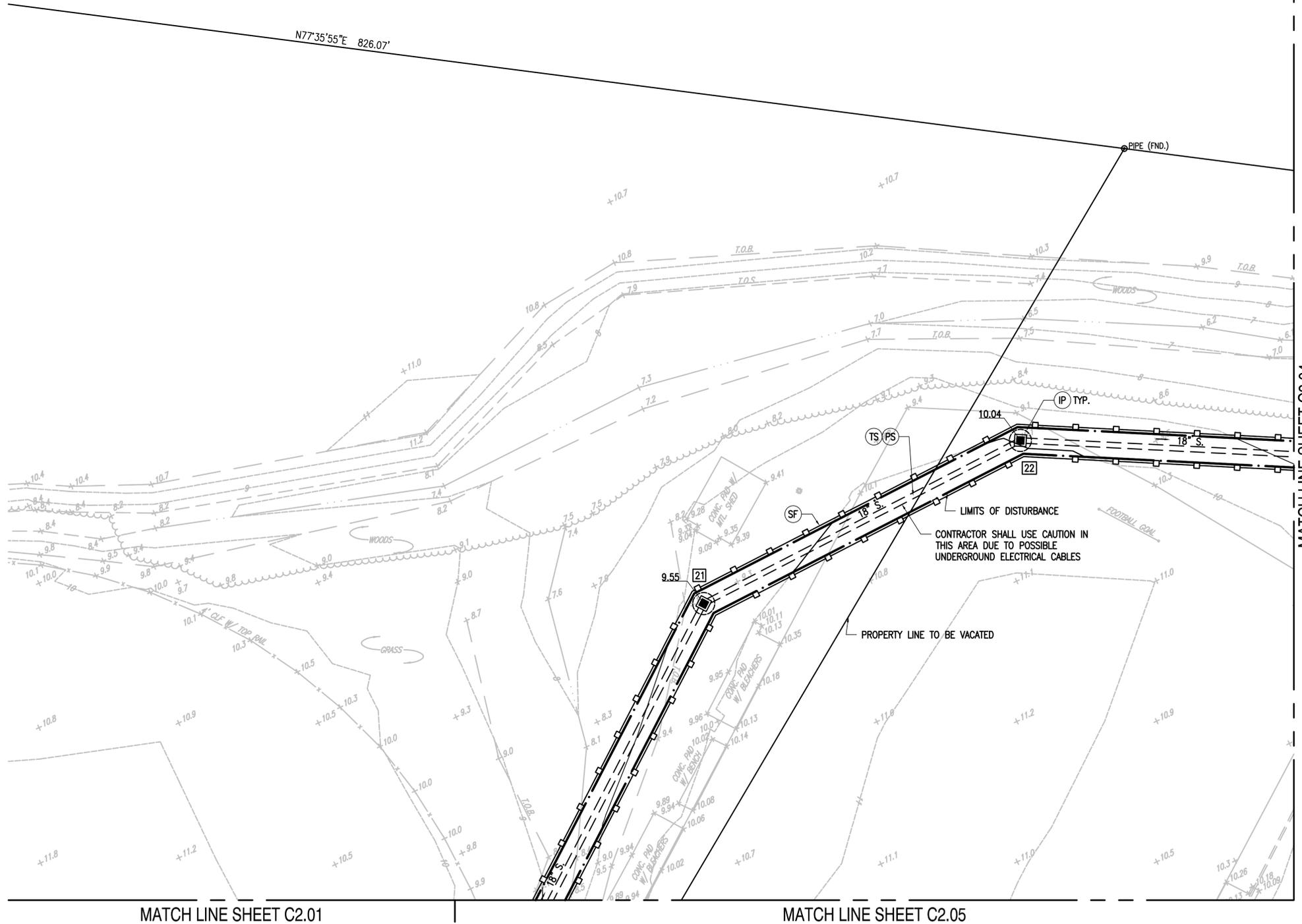
REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013



**SITE IMPROVEMENT
PLAN**

JOB NUMBER 1302

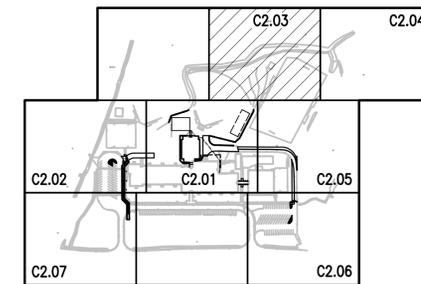
C2.03



MATCH LINE SHEET C2.04

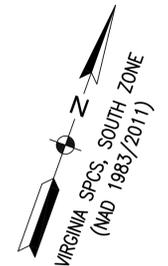
MATCH LINE SHEET C2.01

MATCH LINE SHEET C2.05

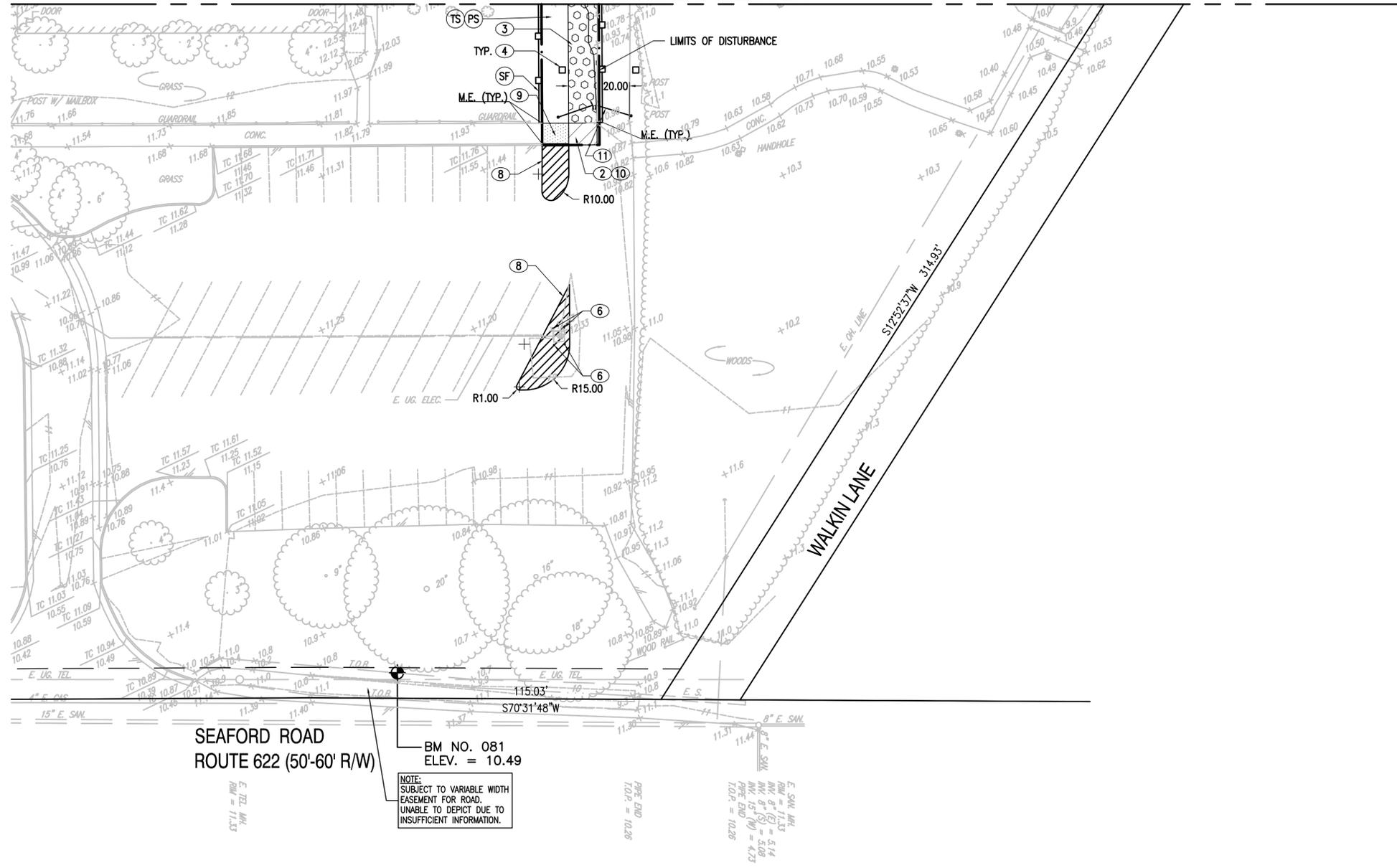


KEY MAP

GRAPHIC SCALE:



MATCH LINE SHEET C2.05



SEAFORD ROAD
ROUTE 622 (50'-60' R/W)

BM NO. 081
ELEV. = 10.49

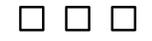
NOTE:
SUBJECT TO VARIABLE WIDTH
EASEMENT FOR ROAD.
UNABLE TO DEPICT DUE TO
INSUFFICIENT INFORMATION.

KEY NOTES:

- ② BITUMINOUS PAVEMENT
- ③ REINFORCED EARTH
- ④ FIRE LANE MARKER
- ⑥ BOLLARD
- ⑧ PAINTED ISLAND (WHITE) (REMOVE EXISTING MARKING)
- ⑨ TURNED DOWN EDGE SIDEWALK
- ⑩ PAVEMENT INTERFACE
- ⑪ DOUBLE SWING GATE

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

HUDSON+ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201
HAMPTON, VA.
(757) 722-1964 23669



SEAFORD ELEMENTARY
SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



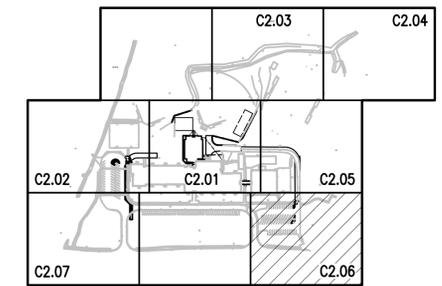
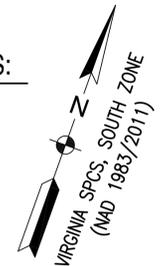
REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013

EROSION CONTROL NOTES:

- (SF) SILT FENCE
- (TS) TEMPORARY SEEDING (TS 3.31)
- (PS) PERMANENT SEEDING (PS 3.32)

UTILITIES NOTE:

ALL EXISTING AND PROPOSED
UTILITIES SHALL BE PLACED
UNDERGROUND.



KEY MAP

GRAPHIC SCALE:

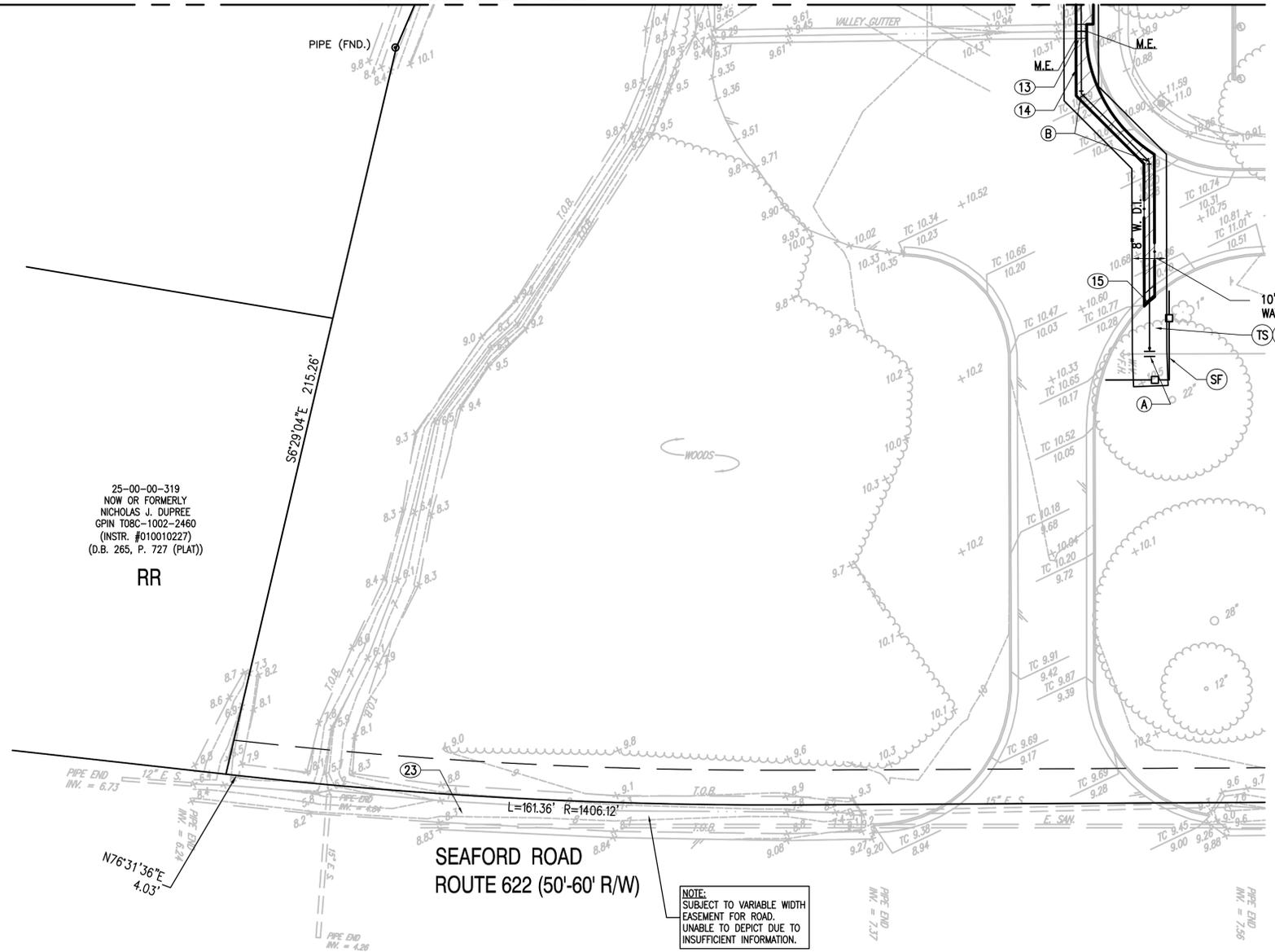


SITE IMPROVEMENT
PLAN

JOB NUMBER 1302

C2.06

MATCH LINE SHEET C2.02



25-00-00-319
NOW OR FORMERLY
NICHOLAS J. DUPREE
GPN T08C-1002-2460
(INSTR. #010010227)
(D.B. 265, P. 727 (PLAT))

RR

SEAFORD ROAD
ROUTE 622 (50'-60' R/W)

NOTE:
SUBJECT TO VARIABLE WIDTH
EASEMENT FOR ROAD.
UNABLE TO DEPICT DUE TO
INSUFFICIENT INFORMATION.

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

KEY NOTES:

- 13 CONCRETE VALLEY GUTTER
- 14 BITUMINOUS PAVEMENT PATCH
- 15 CURB & GUTTER PATCH
- 23 SHARE THE ROAD SIGN (M.U.T.C.D. W11-1 / W16-1)

WATER NOTES:

- A 8" TAPPING SLEEVE & TAPPING VALVE W/ BOX
- B 8" - 45° BEND W/ RESTRAINED JOINTS

10' PROPOSED NEWPORT NEWS
WATER WORKS UTILITY EASEMENT.

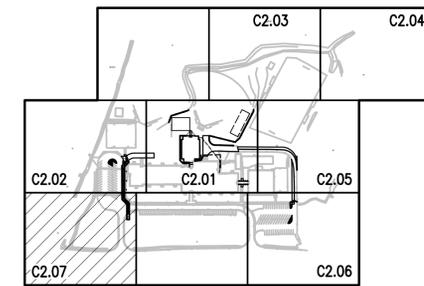
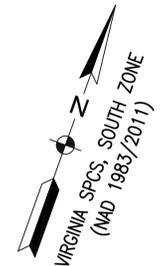
SEE SHEET C2.02 FOR JOINT RESTRAINT NOTE.

EROSION CONTROL NOTES:

- SF SILT FENCE (SF-3.05)
- TS TEMPORARY SEEDING (TS 3.31)
- PS PERMANENT SEEDING (PS 3.32)

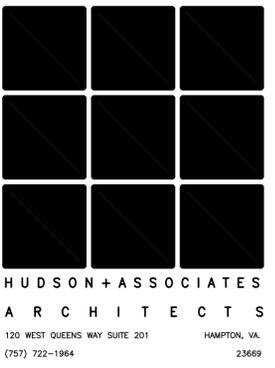
UTILITIES NOTE:

ALL EXISTING AND PROPOSED
UTILITIES SHALL BE PLACED
UNDERGROUND.



KEY MAP

GRAPHIC SCALE:



SEAFORD ELEMENTARY
SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



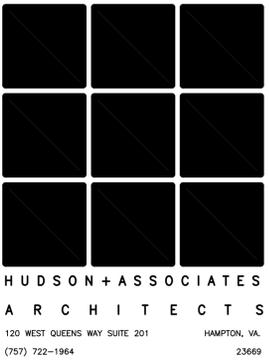
REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013

SITE IMPROVEMENT
PLAN

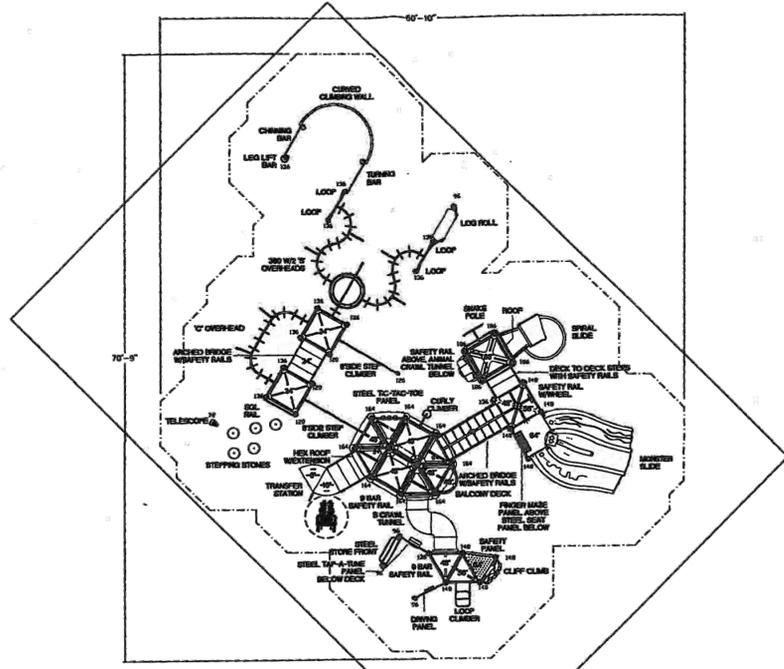
JOB NUMBER 1302

C2.07

C. ALLAN BAMFORTH, JR.,
ENGINEER-SURVEYOR, LTD.
NORFOLK, VIRGINIA

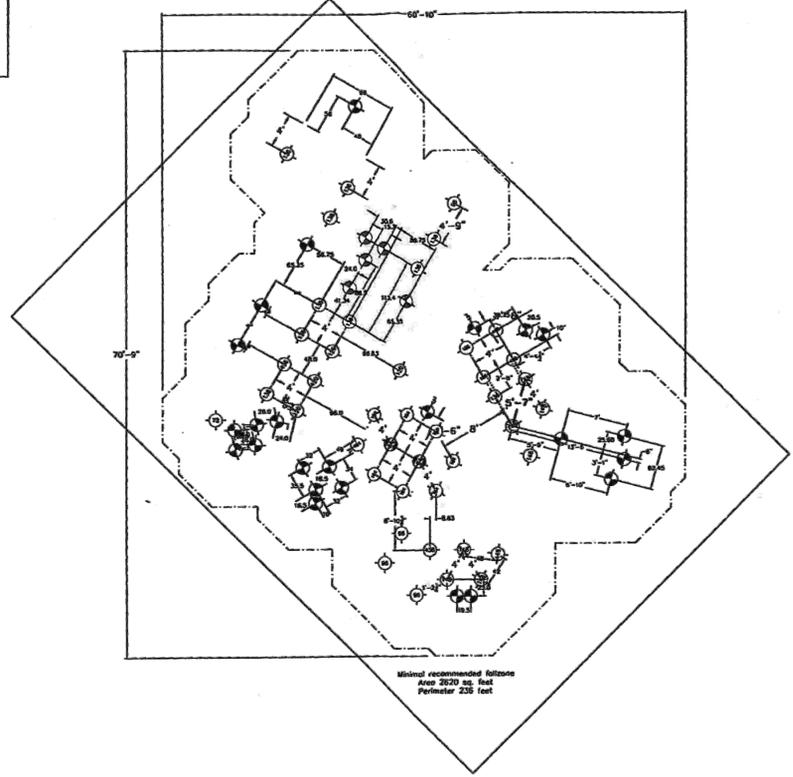


- GENERAL NOTES**
- The Americans with Disabilities Act (ADA) may require that you make your park and/or playground accessible when viewed in its entirety. Please consult your local court in determining if the ADA applies to your project.
 - For playground equipment to be considered accessible, accessible surfing must be utilized in applicable areas.
 - Although a particular playground design may meet the appropriate Access Board Regulations in regard to the appropriate number of ground level events, the actual playground may be in compliance when considering existing site conditions.
 - All deck heights are measured from top of ground cover.
 - Full compliant ground cover is required under and around all play equipment.
 - The minimum recommended fall zone around the entire playstructure is shown. This zone is to be free of all tripping or surface hazards (i.e. rocks, roots, loose material, etc.).
 - This playstructure(s) meets the performance and safety requirements of ASTM for children 5-12 years old. Not all equipment may be appropriate for all children. Supervision is required.
 - All post lengths are identified by text showing the post lengths. Lx 50 represents a 50 inch post.
 - Deck-to-deck enclosure panel locations are marked by an asterisk. The height of each panel may be found by subtracting the lowest deck from the highest deck to which the deck-to-deck enclosure panel mounts.



Project: Seaford Elementary
LTCPS rep: Bob Charles
Bliss Products: 800-248-2547
Kid Builders:
Post Material: Galvanized
Post Color: Blue
Accent Color: White
Panel Color: Warm Granite
Slide Color: Warm Granite
Roof Color: Warm Granite
Hex Wedge: Warm Granite
Hex Rib: Warm Granite
Mounting: Buried
Drawn by: Gabe Lindsey/EB
Date: 11/04/04
DWG Name: QF018537
Scale: 1/10"=1'
Approved by: [Signature]
LTCPS - Farmington:
One Iron Mountain Drive
Farmington, Missouri 63640
Voice: 1-800-325-8828
Fax: 573-756-0319

Playground Layout Compliance:
 This playground design meets the final Access Board Regulations.
 CPSC Handbook for Public Playground Safety
 ASTM F1487 - Playground Equipment for Public Use.



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KID BUILDERS LEGEND
 ① Typical buried post footing (post w/ cap)
 ② Typical buried post footing (post w/o cap)
 ③ Typical buried play event footing
 ④ Typical surface mount post footing (post w/ cap)
 ⑤ Typical surface mount post footing (post w/o cap)
 ⑥ Typical surface mount play event footing
 ***Note: On all post footings the number at the center denotes the length of the post.



SEAFORD ELEMENTARY SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT



REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013

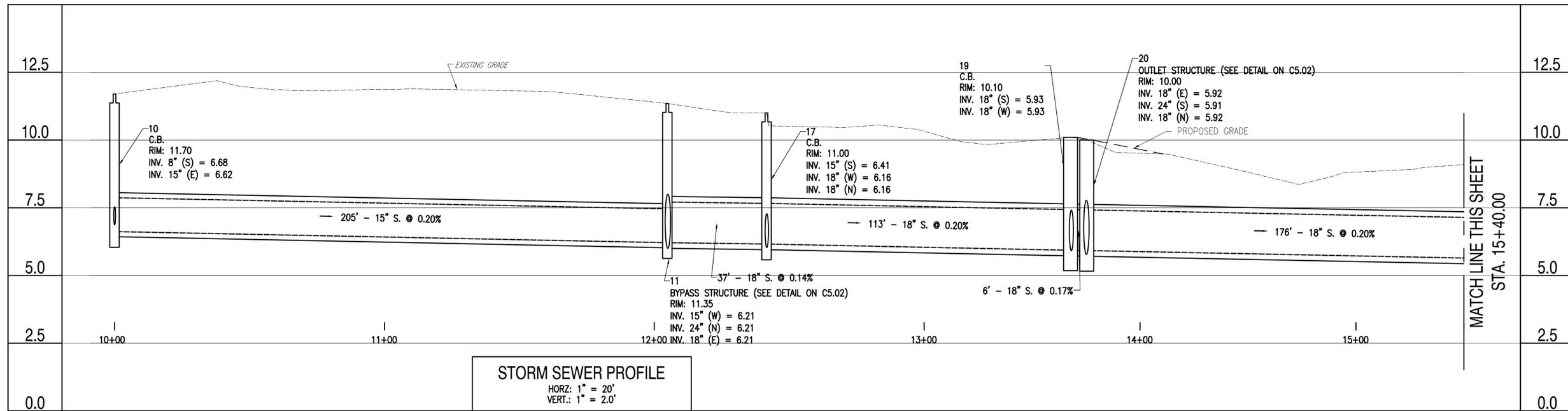
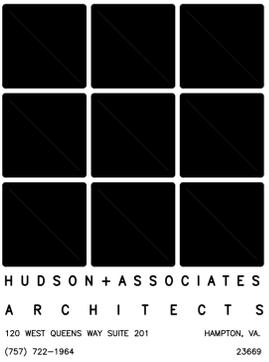


SITE IMPROVEMENT PLAN

JOB NUMBER 1302

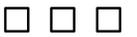
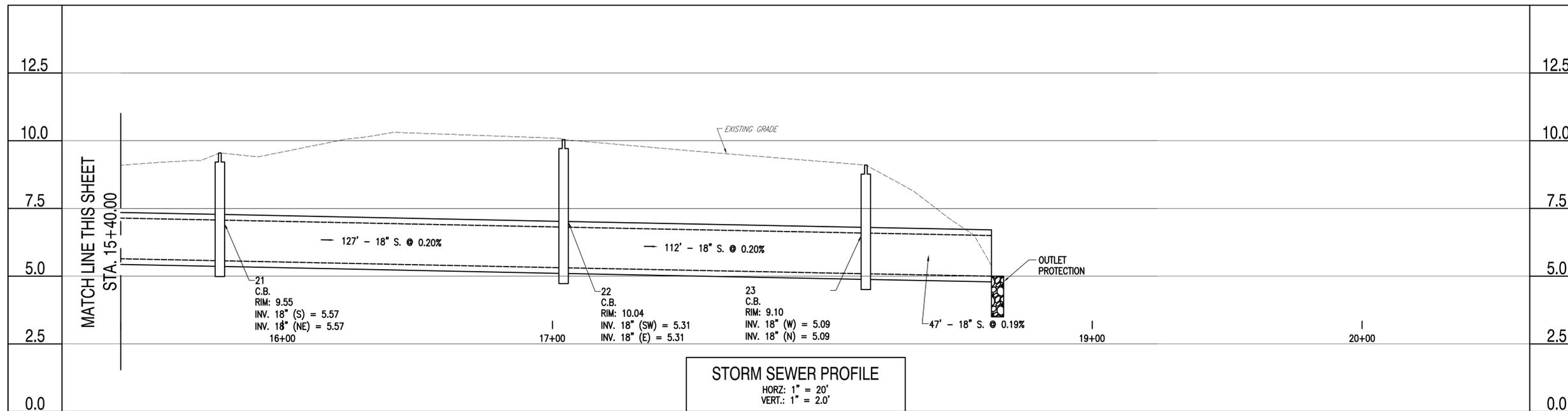
C2.08

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GRAFTON DISTRICT



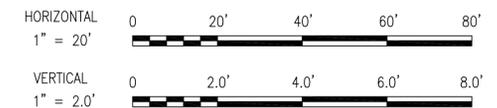
OCTOBER 07, 2013

REV	DESCRIPTION	DATE
1	WHOLE SHEET REVISION	12/05/2013



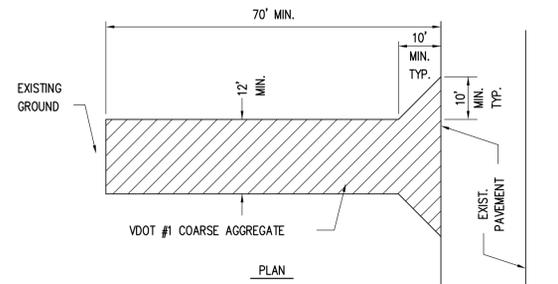
STORM SEWER PROFILES

GRAPHIC SCALE

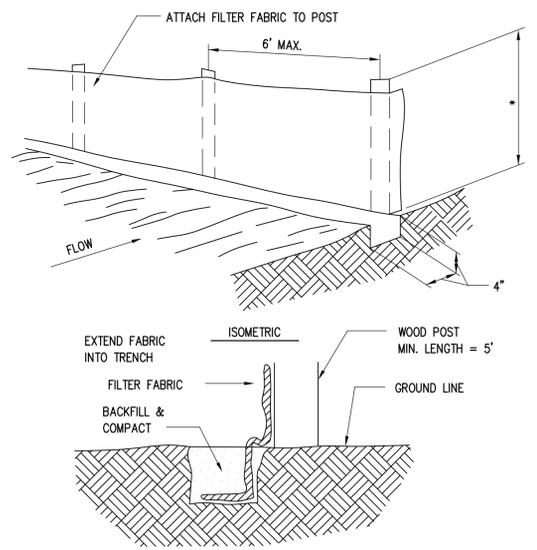
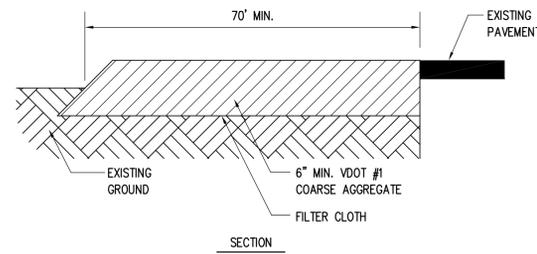


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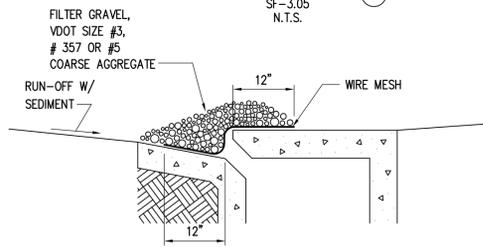
C3.01



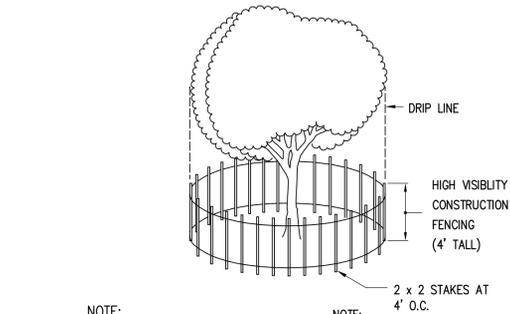
STONE CONSTRUCTION ENTRANCE
CE-3.02
N.T.S.



SILT FENCE
SF-3.05
N.T.S.



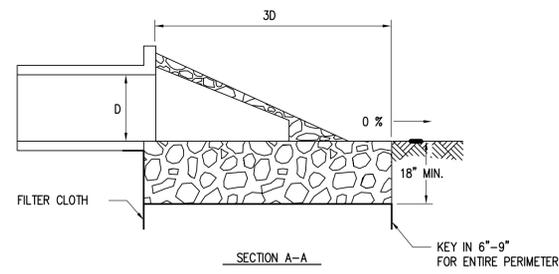
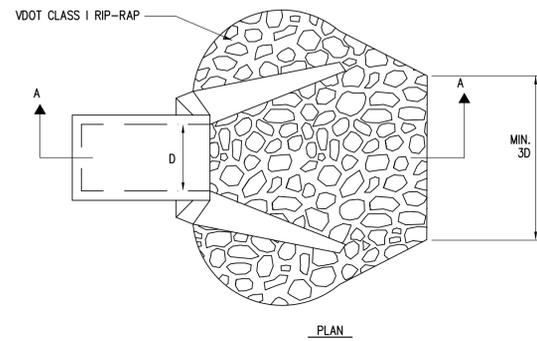
CURB INLET PROTECTION
IP-3.07
N.T.S.



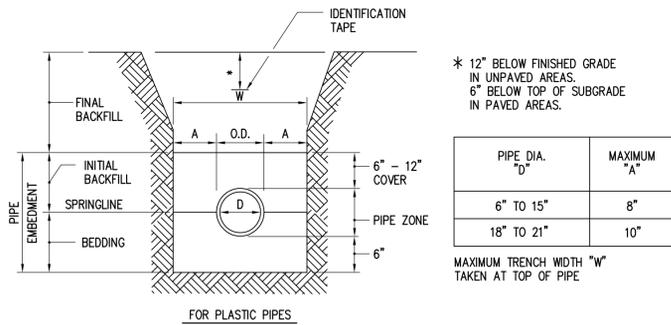
NOTE:
SEE LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.

NOTE:
DRIVE STAKES FIRMLY INTO GROUND (12" MIN.).

TREE PROTECTION DETAIL
TP-3.38
N.T.S.



OUTLET PROTECTION
OP-3.18
N.T.S.

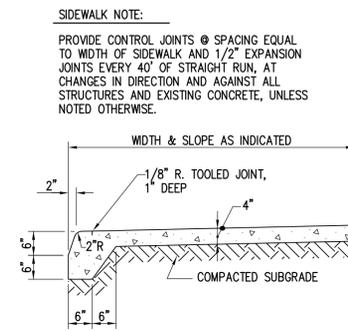


* 12" BELOW FINISHED GRADE IN UNPAVED AREAS.
6" BELOW TOP OF SUBGRADE IN PAVED AREAS.

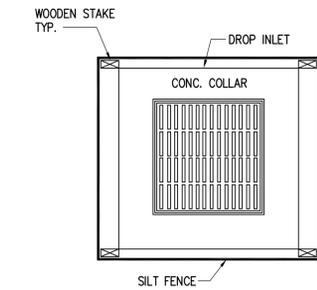
PIPE DIA. "D"	MAXIMUM "A"
6" TO 15"	8"
18" TO 21"	10"

MAXIMUM TRENCH WIDTH "W" TAKEN AT TOP OF PIPE

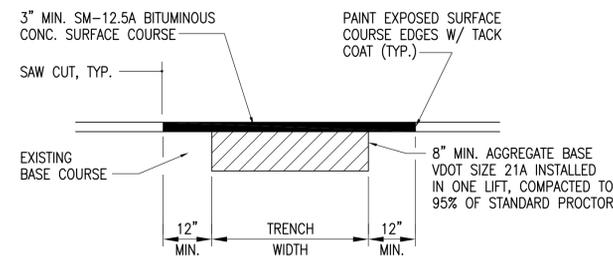
PIPE TRENCH WIDTH DETAIL
N.T.S.



TURNUED-DOWN-EDGE SIDEWALK
N.T.S.

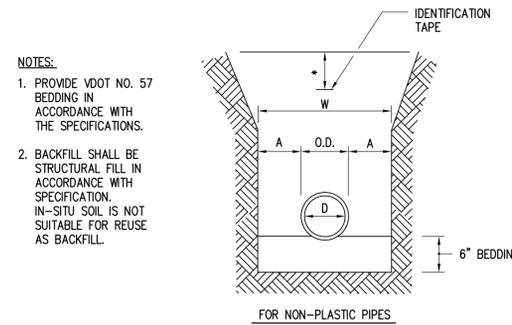


STORM DRAIN INLET PROTECTION
(FOR DROP INLET)
IP-3.07
N.T.S.



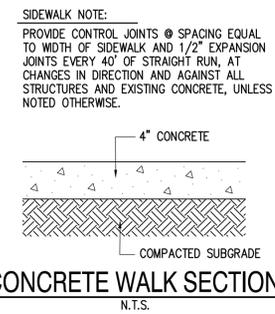
NOTE:
PROVIDE MINIMUM THICKNESSES SHOWN OR MATCH EXISTING, WHICHEVER IS GREATER.

BITUMINOUS PAVEMENT PATCH DETAIL
N.T.S.

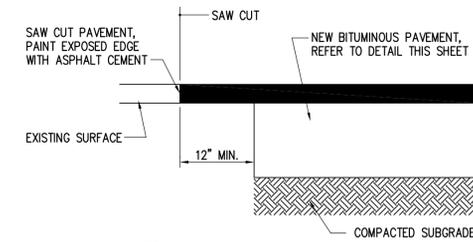


NOTES:
1. PROVIDE VDOT NO. 57 BEDDING IN ACCORDANCE WITH THE SPECIFICATIONS.
2. BACKFILL SHALL BE STRUCTURAL FILL IN ACCORDANCE WITH SPECIFICATION. IN-SITU SOIL IS NOT SUITABLE FOR REUSE AS BACKFILL.

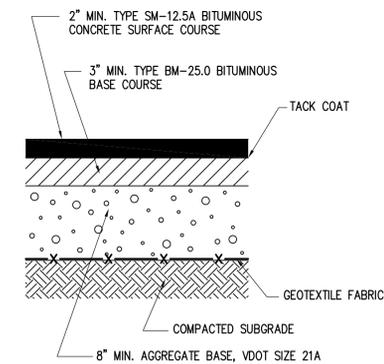
PIPE TRENCH WIDTH DETAIL
N.T.S.



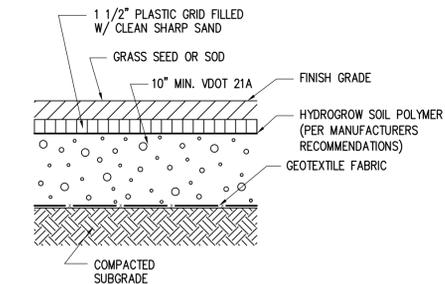
CONCRETE WALK SECTION
N.T.S.



PAVEMENT INTERFACE DETAIL
N.T.S.
(FOR USE WHERE NEW BITUMINOUS PAVEMENT ABUTS EXISTING BITUMINOUS PAVEMENT)



BITUMINOUS PAVEMENT SECTION
N.T.S.



REINFORCED EARTH PAVEMENT SECTION
N.T.S.

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HUDSON+ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201
HAMPTON, VA. 23669
(757) 722-1964

SEAFORD ELEMENTARY
SCHOOL ADDITION

1105 SEAFORD ROAD
SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT

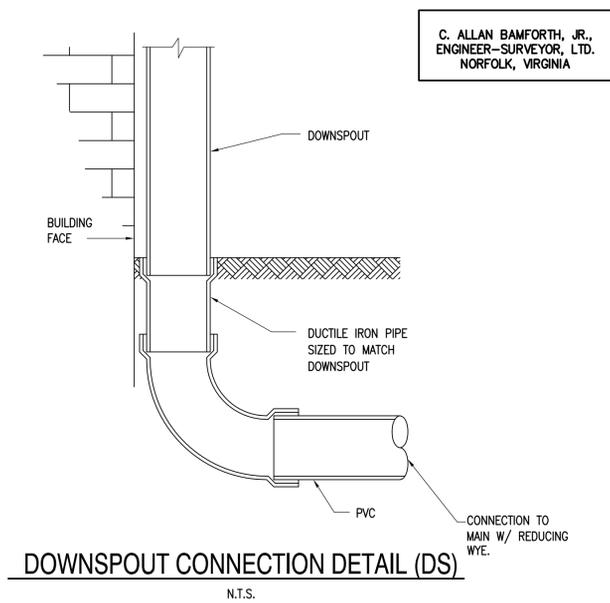
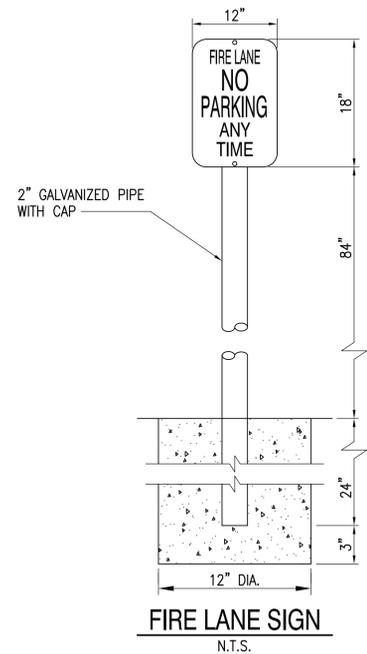
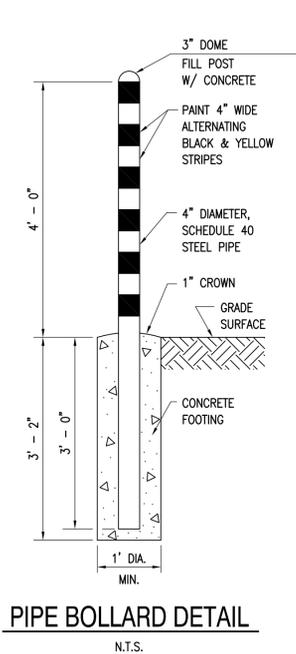
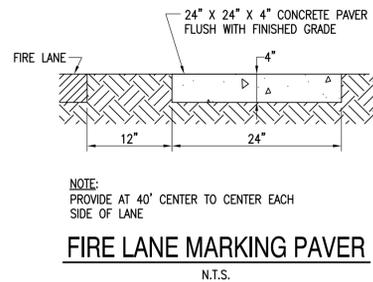
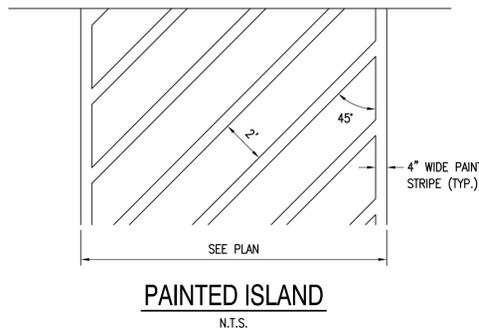


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REV. DESCRIPTION DATE
1 WHOLE SHEET REVISION 12/05/2013

DETAILS

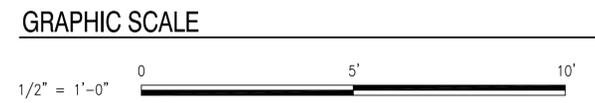
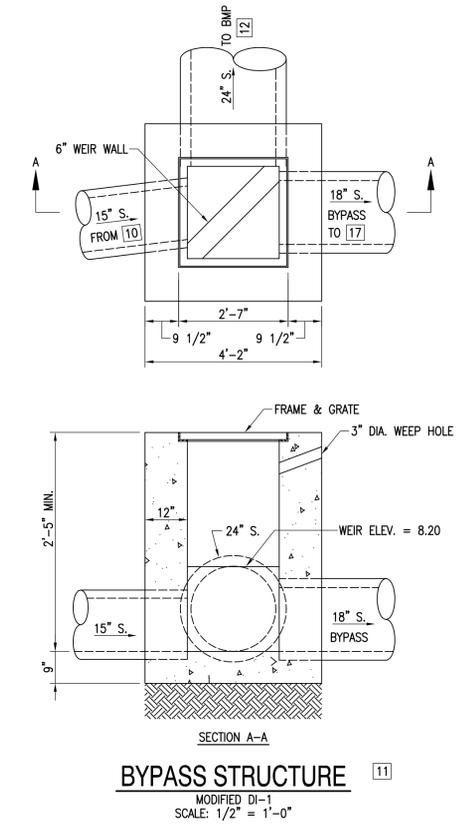
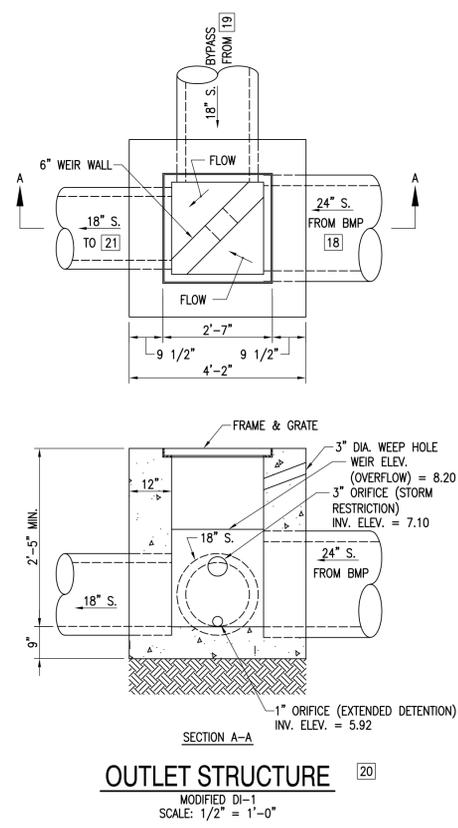
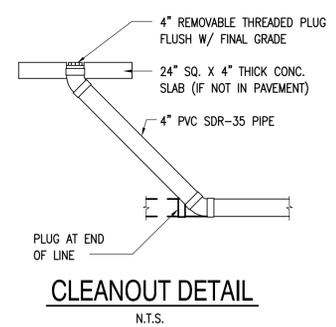
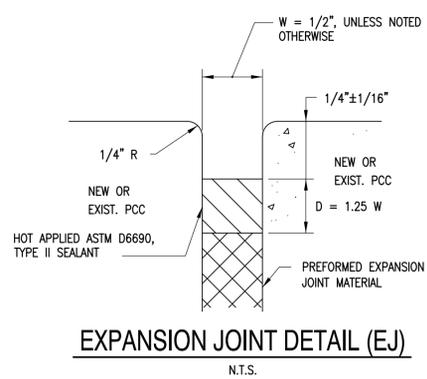
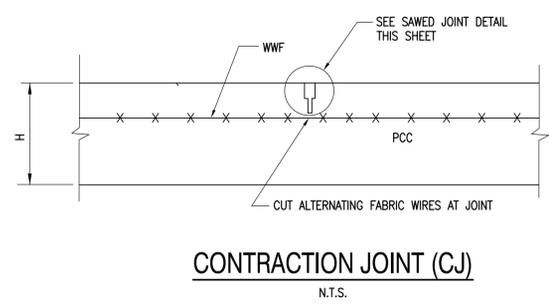
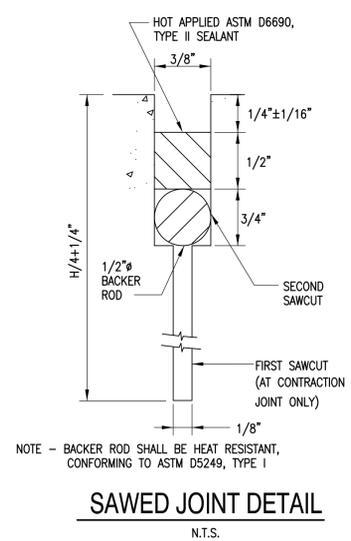
JOB NUMBER 1302

C5.01



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120 WEST QUEENS WAY SUITE 201 HAMPTON, VA. 23669
(757) 722-1964

SEAFORD ELEMENTARY SCHOOL ADDITION
1105 SEAFORD ROAD SEAFORD, VIRGINIA 23696 GRAFTON DISTRICT



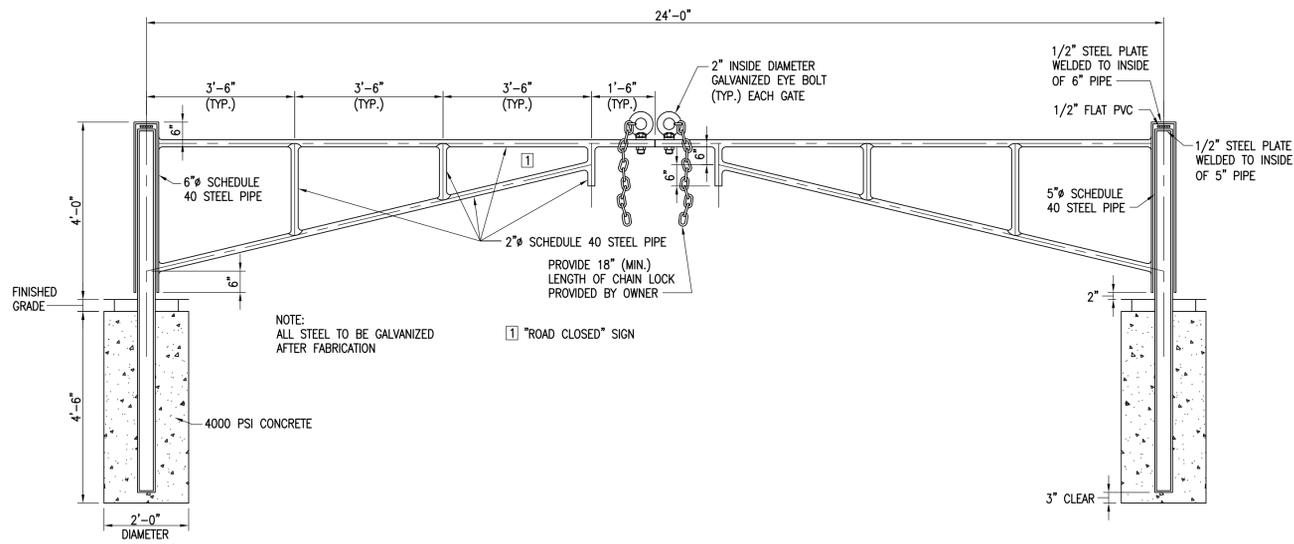
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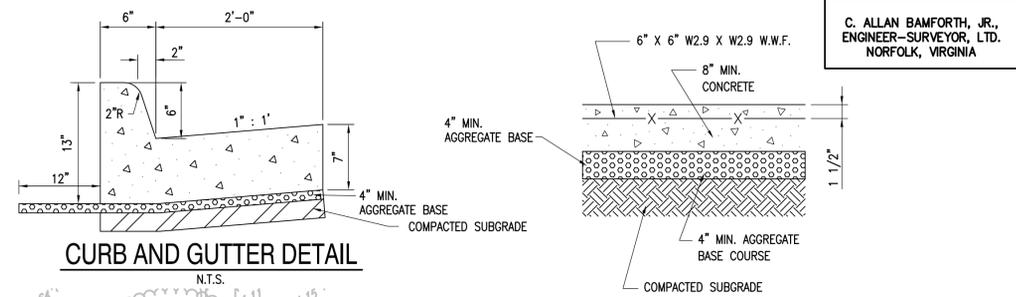
DETAILS

JOB NUMBER 1302

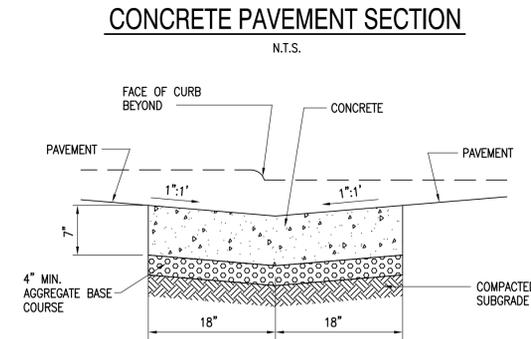
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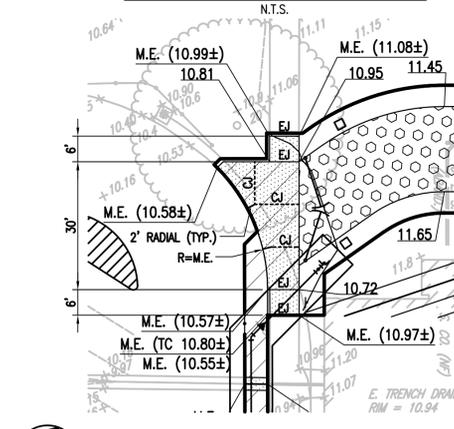
DOUBLE LEAF SWING GATE
N.T.S.



CURB AND GUTTER DETAIL
N.T.S.



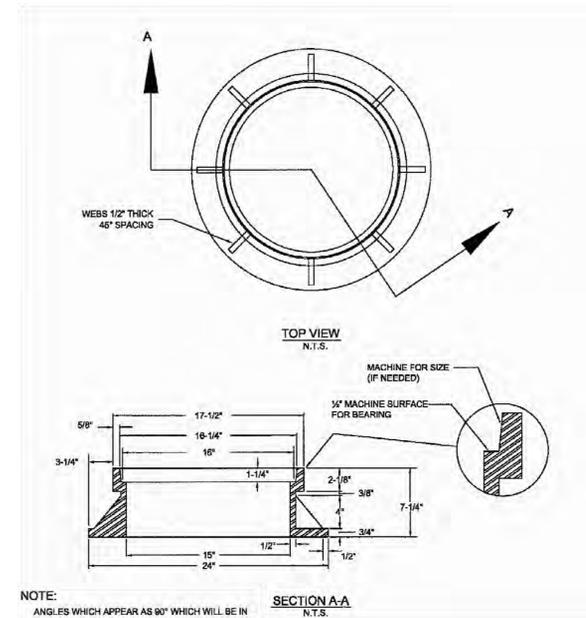
CONCRETE PAVEMENT SECTION
N.T.S.



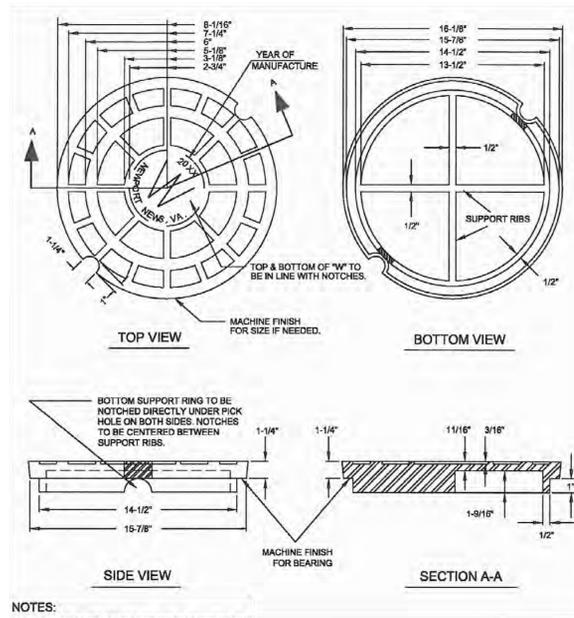
CONCRETE PAVEMENT JOINT PLAN
SCALE: 1" = 20'



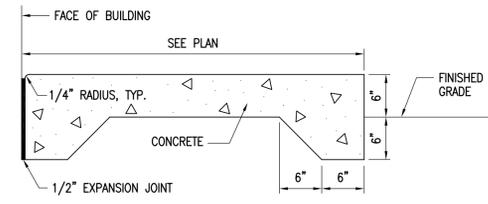
VALLEY GUTTER DETAIL
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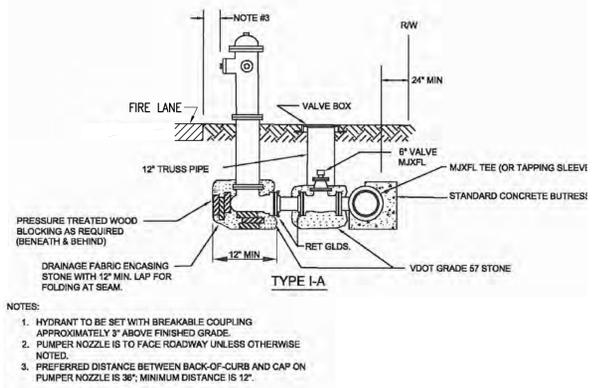
VALVE BOX FRAME
N.T.S.



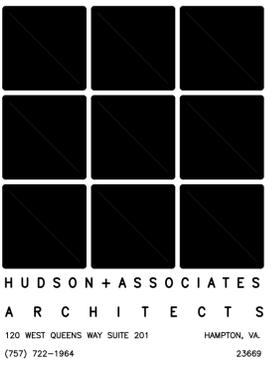
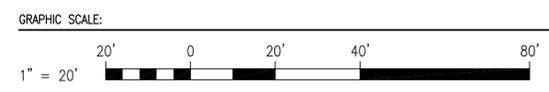
VALVE BOX LID
N.T.S.



CONCRETE DOOR STOOP
N.T.S.



FIRE HYDRANT INSTALLATION
N.T.S.



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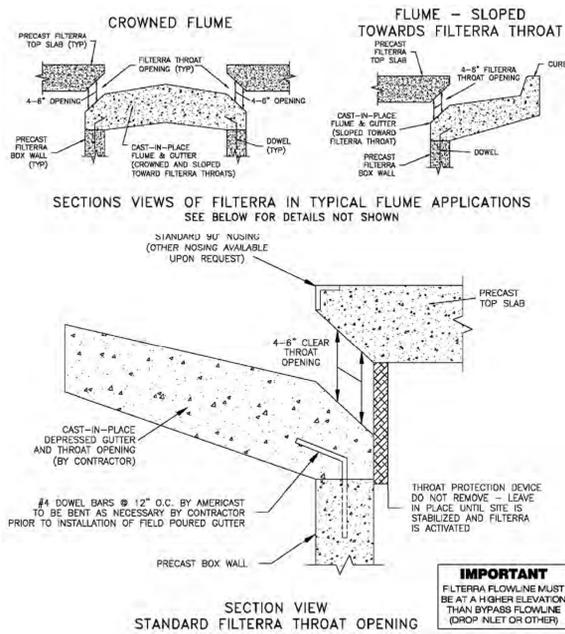
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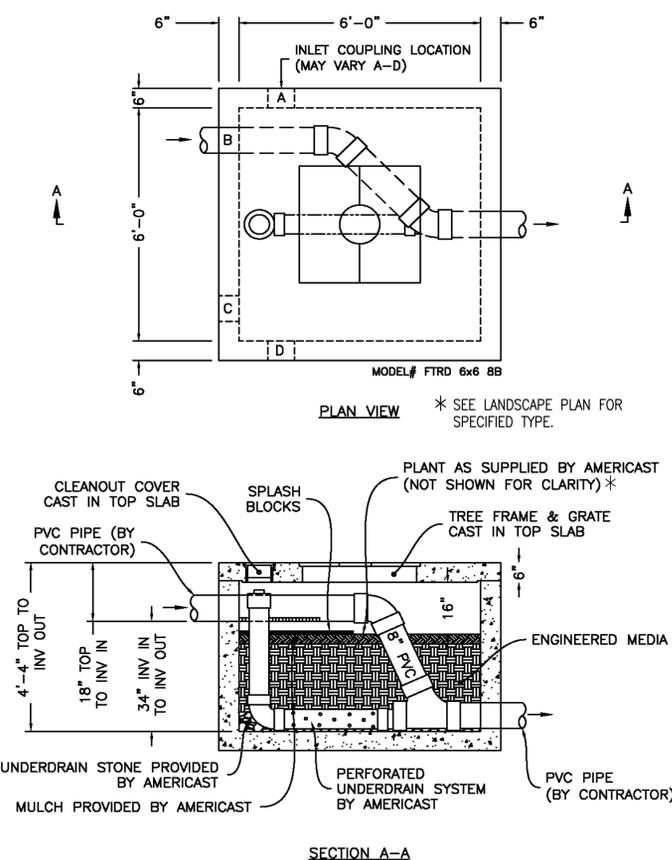
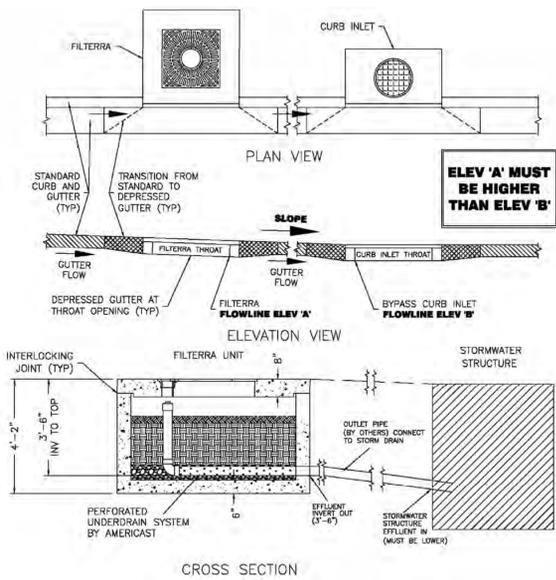
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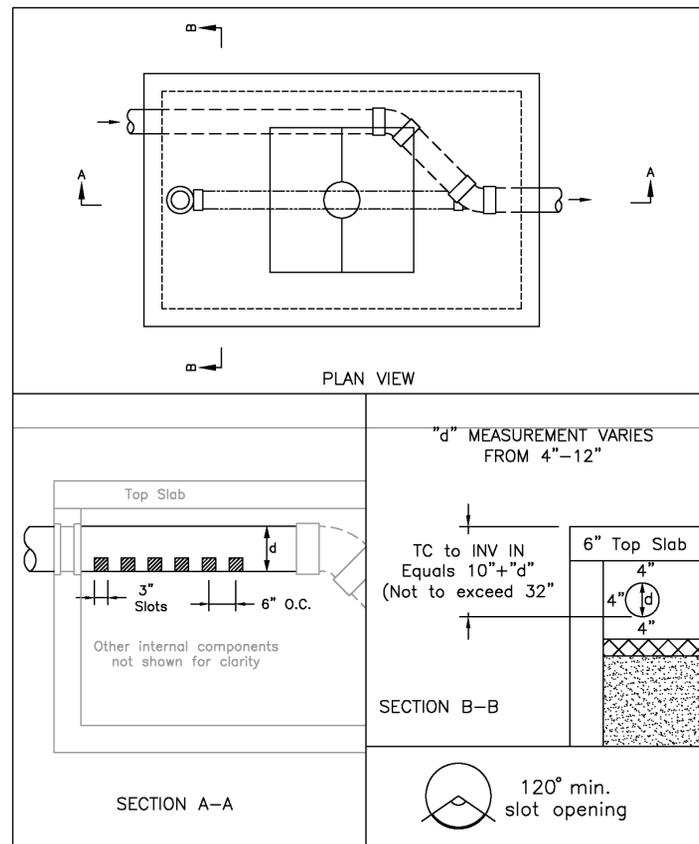
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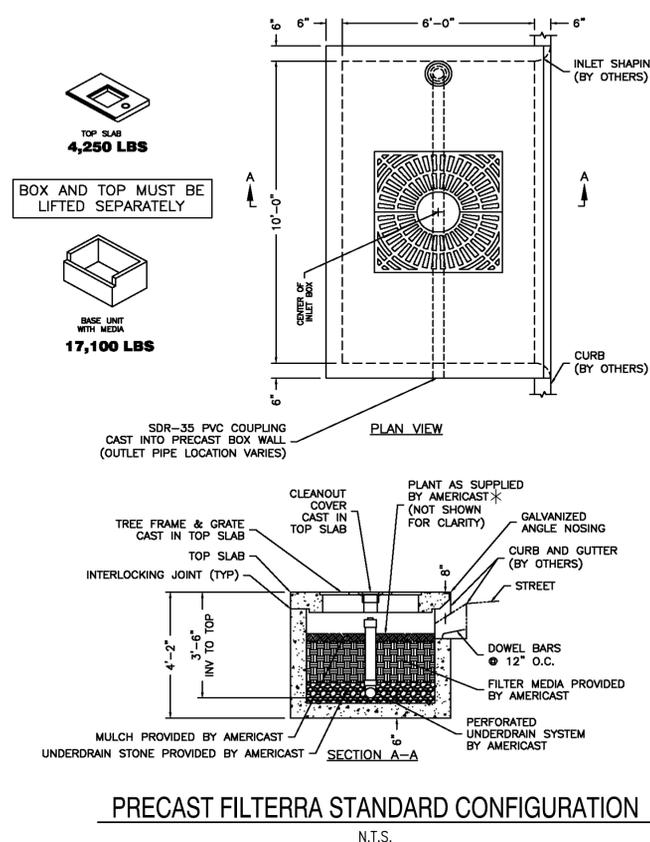
FILTERRA TYPICAL FLOWLINE & OUTLET PIPE
N.T.S.



PRECAST FILTERRA ROOFDRAIN (FTIB-P) CONFIGURATION
N.T.S.



PRECAST FILTERRA UNIT ROOF DRAIN CONFIGURATION PIPE DETAIL
N.T.S.



PRECAST FILTERRA STANDARD CONFIGURATION
N.T.S.

FILTERRA PLAN NOTES

CONSTRUCTION & INSTALLATION

- A. EACH UNIT SHALL BE CONSTRUCTED AT THE LOCATIONS AND ELEVATIONS ACCORDING TO THE SIZES SHOWN ON THE APPROVED DRAWINGS. ANY MODIFICATIONS TO THE ELEVATION OR LOCATION SHALL BE AT THE DIRECTION OF AND APPROVED BY THE ENGINEER.
- B. IF THE FILTERRA IS STORED BEFORE INSTALLATION, THE TOP SLAB MUST BE PLACED ON THE BOX USING THE 2X4 WOOD PROVIDED, TO PREVENT ANY CONTAMINATION FROM THE SITE. ALL INTERNAL FITTINGS SUPPLIED (IF ANY), MUST BE LEFT IN PLACE AS PER THE DELIVERY.
- C. THE UNIT SHALL BE PLACED ON A COMPACTED SUB-GRADE WITH A MINIMUM 6-INCH GRAVEL BASE MATCHING THE FINAL GRADE OF THE CURB LINE IN THE AREA OF THE UNIT. THE UNIT TO BE PLACED SUCH THAT THE UNIT AND TOP SLAB MATCH THE GRADE OF THE CURB IN THE AREA OF THE UNIT. COMPACT UNDISTURBED SUB-GRADE MATERIALS TO 95% OF MAXIMUM DENSITY AT +1-2% OF OPTIMUM MOISTURE. UNSUITABLE MATERIAL BELOW SUB-GRADE SHALL BE REPLACED TO THE SITE ENGINEER'S APPROVAL.
- D. OUTLET CONNECTIONS SHALL BE ALIGNED AND SEALED TO MEET THE APPROVED DRAWINGS WITH MODIFICATIONS NECESSARY TO MEET SITE CONDITIONS AND LOCAL REGULATIONS.
- E. ONCE THE UNIT IS SET, THE INTERNAL WOODEN FORMS AND PROTECTIVE MESH COVER MUST BE LEFT INTACT. REMOVE ONLY THE TEMPORARY WOODEN SHIPPING BLOCKS BETWEEN THE BOX AND TOP SLAB. THE TOP LID SHOULD BE SEALED ONTO THE BOX SECTION BEFORE BACKFILLING, USING A NONSHRINK GROUT, BUTYL RUBBER OR SIMILAR WATERPROOF SEAL. THE BOARDS ON TOP OF THE LID AND BOARDS SEALED IN THE UNIT'S THROAT MUST NOT BE REMOVED. THE SUPPLIER (AMERICAST OR ITS AUTHORIZED DEALER) WILL REMOVE THESE SECTIONS AT THE TIME OF ACTIVATION. BACKFILLING SHOULD BE PERFORMED IN A CAREFUL MANNER, BRINGING THE APPROPRIATE FILL MATERIAL UP IN 6" LIFTS ON ALL SIDES. PRECAST SECTIONS SHALL BE SET IN A MANNER THAT WILL RESULT IN A WATERTIGHT JOINT. IN ALL INSTANCES, INSTALLATION OF FILTERRA UNIT SHALL CONFORM TO ASTM SPECIFICATION C891 "STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRECAST UTILITY STRUCTURES". UNLESS DIRECTED OTHERWISE IN CONTRACT DOCUMENTS.
- F. CURB AND GUTTER CONSTRUCTION (WHERE PRESENT) SHALL ENSURE THAT THE FLOW-LINE OF THE FILTERRA UNITS IS AT A GREATER ELEVATION THAN THE FLOW-LINE OF THE BYPASS STRUCTURE OR RELIEF (DROP INLET, CURB CUT OR SIMILAR). FAILURE TO COMPLY WITH THIS GUIDELINE MAY CAUSE FAILURE AND/OR DAMAGE TO THE FILTERRA ENVIRONMENTAL DEVICE.
- G. EACH FILTERRA UNIT MUST RECEIVE ADEQUATE IRRIGATION TO ENSURE SURVIVAL OF THE LIVING SYSTEM DURING PERIODS OF DRIER WEATHER. THIS MAY BE ACHIEVED THROUGH GUTTER FLOW OR THROUGH THE TREE GRATE. 06/28/05 WWW.FILTERRA.COM TOLL FREE: (866) 349-3458.

ACTIVATION

- A. ACTIVATION OF THE FILTERRA® UNIT IS PERFORMED ONLY BY THE SUPPLIER. PURCHASER IS RESPONSIBLE FOR FILTERRA INLET PROTECTION AND SUBSEQUENT CLEAN OUT COST. THIS PROCESS CANNOT COMMENCE UNTIL THE PROJECT SITE IS FULLY STABILIZED AND CLEANED (FULL LANDSCAPING, GRASS COVER, FINAL PAVING AND STREET SWEEPING COMPLETED), NEGATING THE CHANCE OF CONSTRUCTION MATERIALS CONTAMINATING THE FILTERRA SYSTEM. CARE SHALL BE TAKEN DURING CONSTRUCTION NOT TO DAMAGE THE PROTECTIVE THROAT AND TOP PLATES.
- B. ACTIVATION INCLUDES INSTALLATION OF PLANT(S) AND MULCH LAYERS AS NECESSARY.

MAINTENANCE

- A. EACH CORRECTLY INSTALLED FILTERRA UNIT IS TO BE MAINTAINED BY THE SUPPLIER, OR A SUPPLIER APPROVED CONTRACTOR FOR A MINIMUM PERIOD OF 1 YEAR. THE COST OF THIS SERVICE IS TO BE INCLUDED IN THE PRICE OF EACH FILTERRA UNIT. EXTENDED MAINTENANCE CONTRACTS ARE AVAILABLE AT EXTRA COST UPON REQUEST.
- B. ANNUAL MAINTENANCE CONSISTS OF A MAXIMUM OF (2) SCHEDULED VISITS. THE VISITS ARE SCHEDULED SEASONALLY; THE SPRING VISIT AIMS TO CLEAN UP AFTER WINTER LOADS INCLUDING SALTS AND SANDS. THE FALL VISIT HELPS THE SYSTEM BY REMOVING EXCESSIVE LEAF LITTER.
- C. EACH MAINTENANCE VISIT CONSISTS OF THE FOLLOWING TASKS.
 1. FILTERRA UNIT INSPECTION
 2. FOREIGN DEBRIS, SILT, MULCH & TRASH REMOVAL
 3. FILTER MEDIA EVALUATION AND RECHARGE AS NECESSARY
 4. PLANT HEALTH EVALUATION AND PRUNING OR REPLACEMENT AS NECESSARY
 5. REPLACEMENT OF MULCH
 6. DISPOSAL OF ALL MAINTENANCE REFUSE ITEMS
 7. MAINTENANCE RECORDS UPDATED AND STORED (REPORTS AVAILABLE UPON REQUEST)
- D. THE BEGINNING AND ENDING DATE OF SUPPLIER'S OBLIGATION TO MAINTAIN THE INSTALLED SYSTEM SHALL BE DETERMINED BY THE SUPPLIER AT THE TIME THE SYSTEM IS ACTIVATED. OWNERS MUST PROMPTLY NOTIFY THE SUPPLIER OF ANY DAMAGE TO THE PLANT(S), WHICH CONSTITUTE(S) AN INTEGRAL PART OF THE BIORETENTION TECHNOLOGY.

C. ALLAN BAMFORTH, JR.,
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SEAFORD, VIRGINIA 23696
GRAFTON DISTRICT

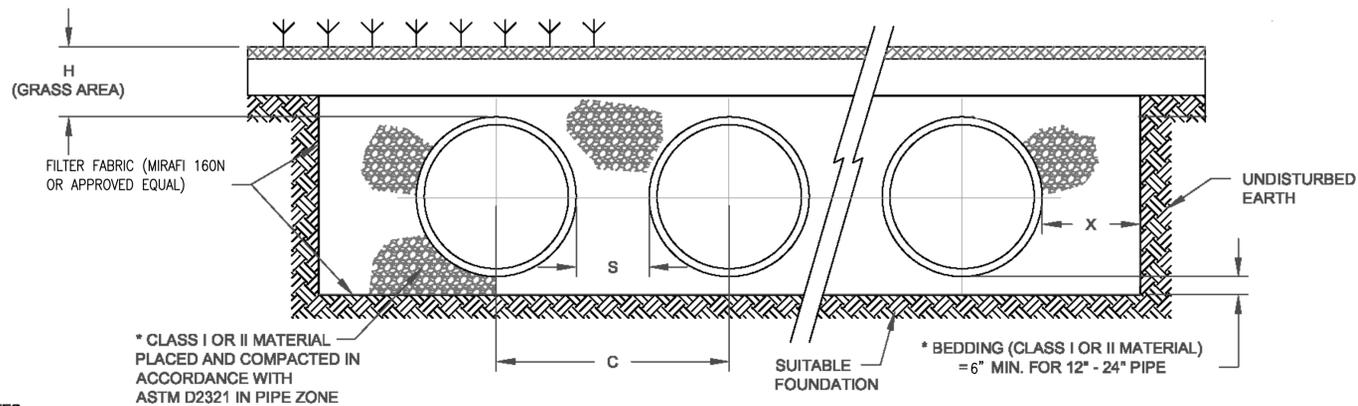


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DETAILS

JOB NUMBER 1302

C5.04



NOTES:

1. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2321 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
2. ALL DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.
3. MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED. SEE ASTM D2321.
4. **FILTER FABRIC:** A GEOTEXTILE FABRIC MAY BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.
5. **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.
6. **BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 6" FOR 4"-24" PIPE.
7. **INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
8. **MINIMUM COVER:** MINIMUM COVER OVER ALL RETENTION/DETENTION SYSTEMS IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION.

NOMINAL DIAMETER	NOMINAL O.D.	TYPICAL SPACING "S"	TYPICAL SPACING "C"	TYPICAL SIDE WALL "X"	H (NON-TRAFFIC)	H (TRAFFIC)
24"	28"	13"	40.7"	10"	12"	12"
(600 MM)	(711 MM)	(330 MM)	(1034 MM)	(254 MM)	(292 MM)	(292 MM)

STORMWATER MANAGEMENT PIPING MAINTENANCE

DETERMINING IF MAINTENANCE IS REQUIRED.

VISUAL INSPECTION

A VISUAL INSPECTION OF THE FOLLOWING SYSTEM COMPONENTS SHALL BE PERFORMED SEMI-ANNUALLY TO LOOK FOR VISUAL DEFICIENCIES IN THE FORM OF SEDIMENTATION OF DEBRIS:

MANHOLES LOCATED BEFORE AND/OR AFTER THE PIPING SYSTEM INLET AND OUTLET PIPING DISCHARGE AREA

SYSTEM OPERATION

INSPECT THE SYSTEM WHILE IN OPERATION, MAKING SURE INLETS REMAIN OPEN AND THE SYSTEM DOESN'T BACK UP.

MAINTENANCE FREQUENCY

DURING CONSTRUCTION

CARE SHALL BE TAKEN TO AVOID SILTATION OF THE SYSTEM DURING THE CONSTRUCTION PROCESS.

AT PROJECT COMPLETION

AT THE COMPLETION OF INSTALLATION AND ALL PROJECT-RELATED EXCAVATION, ANY CONSTRUCTION-RELATED DEBRIS AND/OR SEDIMENTATION IN THE PIPING SYSTEM SHALL BE COLLECTED, REMOVED AND DISPOSED OF PROPERLY. NO DEBRIS AND/OR SEDIMENTATION SHALL BE FLUSHED DOWN STREAM.

REGULAR MAINTENANCE

MAINTENANCE TO THE SYSTEM SHALL BE PERFORMED BASED ON THE FINDINGS OF THE SEMI-ANNUAL INSPECTION OR AS A RESULT OF A DECREASE IN SYSTEM PERFORMANCE, AS OBSERVED DURING SYSTEM OPERATION.

MAINTENANCE PROCEDURES

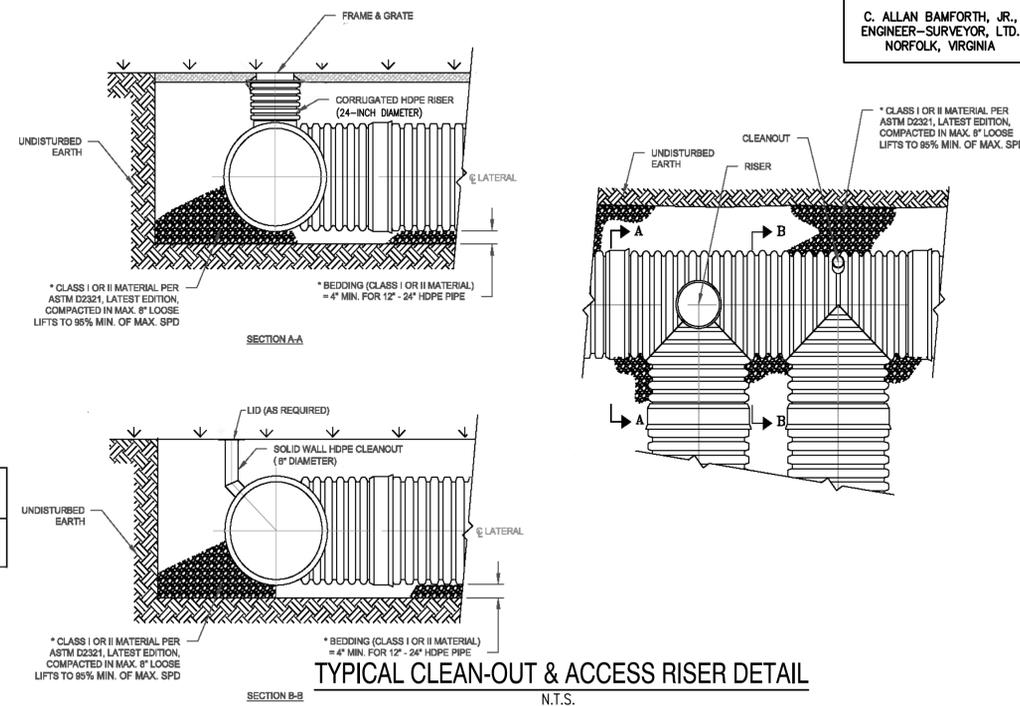
1. THE OWNER IS RESPONSIBLE FOR THE LONG TERM MAINTENANCE OF THE UNDERGROUND STORMWATER DETENTION SYSTEM.
2. DETERMINE IF MAINTENANCE IS REQUIRED. IF IT IS, PROCEED WITH THE FOLLOWING STEPS:
(IF AN UPSTREAM PRE-TREATMENT SYSTEM IS BEING USED AND REQUIRES MAINTENANCE, FOLLOW THE MAINTENANCE GUIDELINES FOR THAT PARTICULAR PRODUCT.)
3. USING A VACUUM PUMP TRUCK, EVACUATE DEBRIS FROM MANHOLES, INLET AND OUTLET PIPING, AND THE DISCHARGE AREA DEBRIS MAY NOT BE FLUSHED DOWNSTREAM BUT MUST BE EXTRACTED FROM THE DRAINAGE SYSTEM.
4. FLUSH THE SYSTEM WITH CLEAN WATER (FIRE, HYDRANT, TANKER TRUCK, ETC.) TO FORCE DEBRIS FROM THE SYSTEM.
5. EVACUATE ADDITIONAL DEBRIS (AS IN STEP 2).
6. RE-FLUSH THE SYSTEM.
7. REPEAT STEPS 2 AND 3 UNTIL NO ADDITIONAL DEBRIS IS EVIDENT.

MAINTENANCE PRECAUTIONS

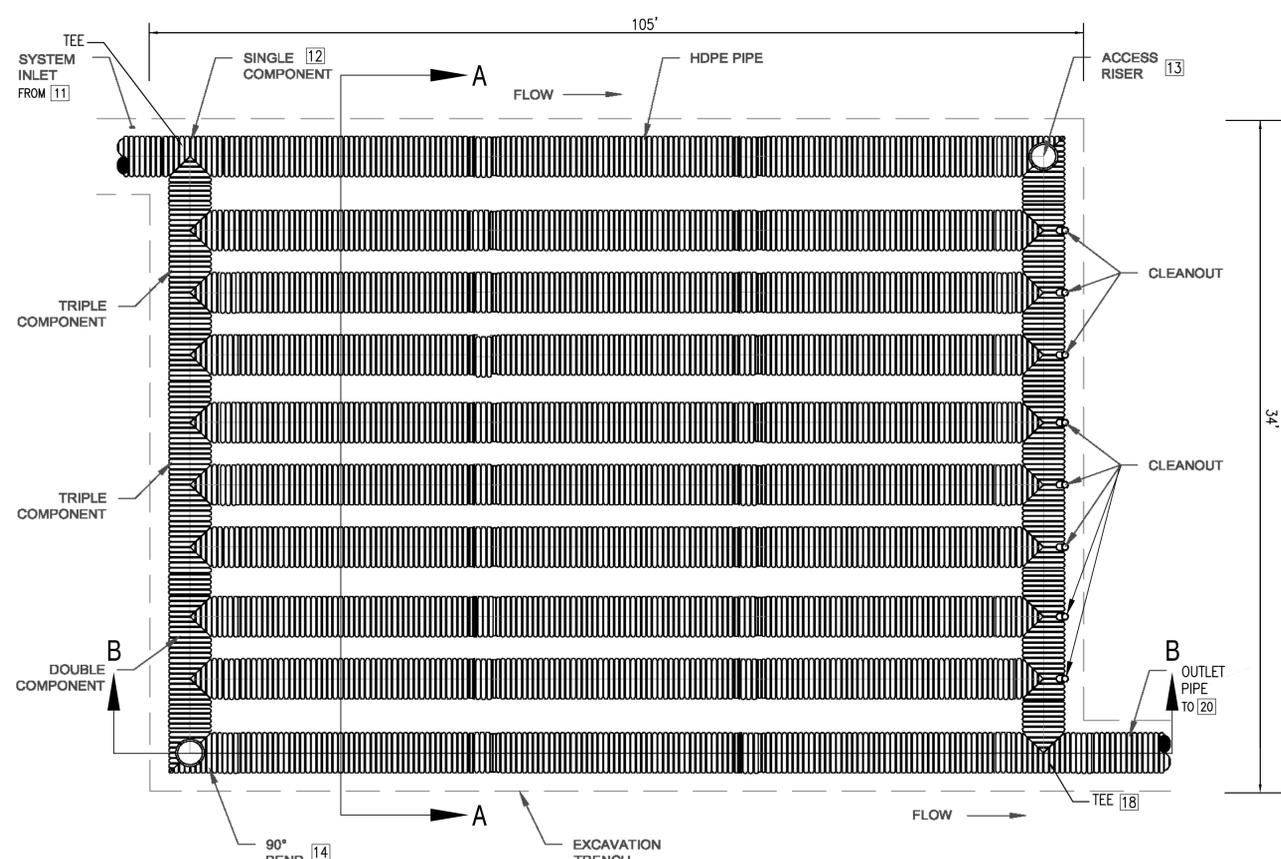
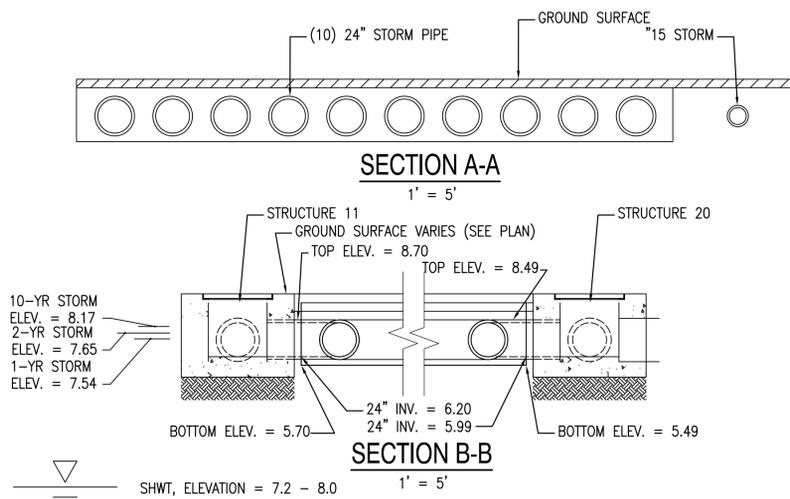
BE SURE TO CONFORM TO ALL SAFETY REGULATIONS WHEN PERFORMING MAINTENANCE.
AVOID EXTREME DIRECT WATER PRESSURE WHEN FLUSHING THE SYSTEM

NOTES:

1. FOR INSTALLATION RECOMMENDATIONS, SEE CROSS-SECTION DETAIL AND TYPICAL CLEANOUT AND ACCESS RISER DETAIL.



TYPICAL CROSS SECTION DETAIL
N.T.S.



TYPICAL UNDERGROUND PIPED DETENTION AREA (BMP) LAYOUT DETAIL
N.T.S.

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SEAFORD ELEMENTARY SCHOOL ADDITION

1105 SEAFORD ROAD
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