SITE CONSTRUCTION PLANS for

FOUNDATION EARLY LEARNING

4301 CAROLINA BEACH ROAD WILMINGTON, NC, 28412

FEBRUARY 09, 2024

SITE DEVELOPMENT SUMMARY:

TAX PARCEL IDENTIFICATION NUMBERS R07000-003-005-000 TOTAL ACREAGE: 2.357 AC (102,691 SF) ZONING: DAYCARE PROPOSED USE: **SETBACKS OF BUILDING:** SIDE: 20 FT REAR: 10 FT 12.500 SF **BUILDING SIZE:** 12.17% **BUILDING LOT COVERAGE:** NUMBER OF UNITS: NUMBER OF BUILDINGS:

1 FLOOR; 12,500 SF BUILDING HEIGHT(S): NUMBER OF STORIES AND SF PER FLOOR

OFF STREET PARKING CALCULATIONS FOR CHILD DAYCARE

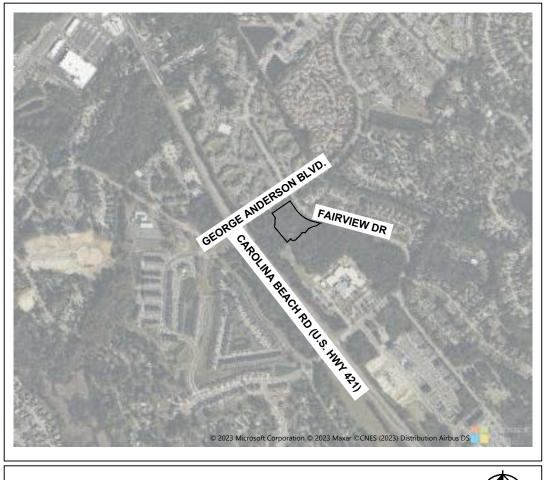
(280 PARTICIPANTS 280/8 =35) 35 SPACES 35 SPACES * 150%= 1 SPACE PER 8 PARTICIPANTS: 53 SPACES 150% OF REQUIRED

BICYCLE PARKING REQUIRED/PROVIDED:

PRIVATE CONNECTION TO PUBLIC SYSTEM CAMA LAND USE CLASSIFICATION:

CITY OF WILMINGTON GENERAL NOTES:

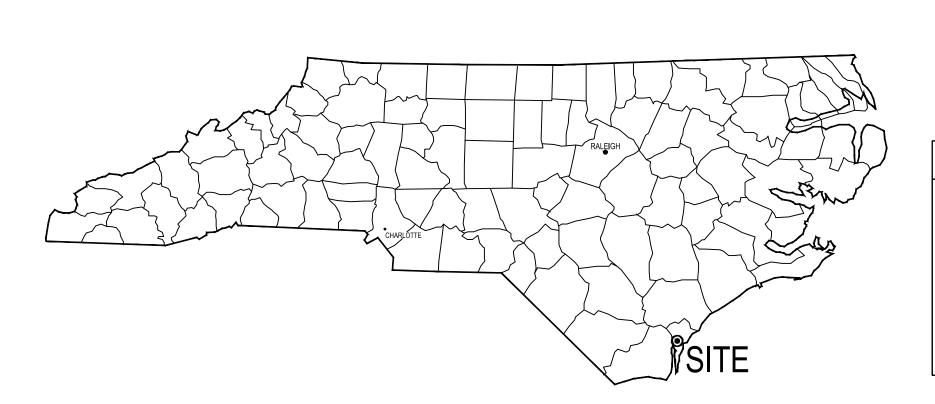
- CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION. 2. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
- ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE
- 4. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET SECTION 510 REQUIREMENTS OF THE 2018 NC FIRE CODE.
- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
- PRIOR TO CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES, NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED





KIMLEY-HORN SHALL HAVE NO LIABILITY WHATSOEVER FOR ANY COSTS ARISING OUT OF THE CLIENT'S DECISION TO OBTAIN BIDS OR PROCEED WITH CONSTRUCTION BEFORE KIMLEY-HORN HAS ISSUED FINAL, FULLY-APPROVED PLANS AND SPECIFICATIONS. THE CLIENT ACKNOWLEDGES THAT ALL PRELIMINARY PLANS ARE SUBJECT TO SUBSTANTIAL REVISION UNTIL PLANS ARE FULLY APPROVED AND ALL PERMITS

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PROJECT OWNER AND CONSULTANT INFORMATION

DEVELOPER: KQC INVESTORS, LLC

PO BOX 609 LEWISVILLE, NC 27023 PHONE: (678) 592-5088 **CONTACT: ROBB BRYAN**

ENGINEER:

KIMLEY-HORN AND ASSOCIATES, INC. 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131

CONTACT: NADEAN SHOVELS EOR: LEONG WEE YEE

SURVEYOR:

PORT CITY LAND SURVEYING, PLLC 1144 SHIPYARD BOULEVARD WILMINGTON, NC 28412 PHONE (910) 791-0080

CONTACT: STEVEN BUIE

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CONTACT: JOE MATHEWS



ORIZONTAL DATUM: NAD 83 (2011) **VERTICAL DATUM:** DRAWING UNITS: U.S. SURVEY FEET

SHE OVER.

THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.

CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.

SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM CORNERSTONE PROFESSIONAL LAND SURVEYING. ALL INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODE AND THE OWNER.

THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE STATE DEPARTMENT OF TRANSPORTATION STRUCTURE STANDARDS AND REGULATIONS (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER

ALL WORK AND MATERIALS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES AND O.S.H.A. STANDARDS. IN THE EVENT THE REGULATIONS DO NOT AGREE, THE MOST STRINGENT SHALL GOVERN.

0. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION'S SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID. AREAS TO BE DISTURBED SHALL BE IMPROVED PER THE CIVIL PLANS OR RESTORED TO THEIR ORIGINAL OR BETTER CONDITION. CONTRACTOR SHALL REPAIR ANY EXISTING FEATURES THAT ARE DAMAGED DURING CONSTRUCTION TO THE EXISTING OR BETTER CONDITION.

THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE. AT ALL TIMES. ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

2. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK, NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS, IF ANY CONFLICTS ARE DISCOVERED. THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

14. ALL WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED, ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER

TRAFFIC CONTROL ON ALL STATE, LOCAL, AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

CONSTRUCTION TESTING

IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL TESTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. IF DETERMINED BY THE OWNER, THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONSTRUCTION

TESTING. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR REQUIRED CONSTRUCTION TESTING. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS

SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE TESTING LABORATORY AND THE PAYMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE OWNER SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE SPECIFICATIONS. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST. RESULTS ARE TO BE SENT

TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY. JURISDICTIONALLY-APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN

AS-BUILTS/RECORD DRAWINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE PROJECT STATE WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SEALED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE PROJECT STATE DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS. THE RECORD DRAWINGS SHALL BE PREPARED TO THE SAME LEVEL OF DETAILS AS PROVIDED ON THE

THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER AND OWNER RECORD DRAWINGS IN BOTH PDF AND AUTOCAD FORMAT FOR ALL PAVING, GRADING, AND STORMWATER BMPS, AND STORMWATER DRAINAGE PIPES AND STRUCTURES AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

THE CONTRACTOR SHALL PROVIDE A SEPARATE UTILITY RECORD DRAWING IN AUTOCAD AND PDF FORMAT. THE RECORD DRAWINGS SHALL VERIFY ALL DESIGN INFORMATION INCLUDED ON THE DESIGN PLANS.

IN ADDITION TO THE OWNER AND ENGINEER REQUIRED SURVEYS, THE CONTRACTOR SHALL

PROVIDE ADDITIONAL RECORD DRAWINGS AND AS-BUILT INFORMATION AS REQUIRED BY THE

GENERAL ACCESSIBILITY NOTES

AUTHORITY HAVING JURISDICTION.

THE CONTRACTOR SHALL REVIEW ALL APPLICABLE STATE AND LOCAL GUIDELINES AS THEY APPLY TO THE ACCESSIBILITY AND SIGNAGE.

ALL CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR TO BE IN COMPLIANCE WITH LOCALLY ADOPTED ACCESSIBILITY REGULATIONS. ANYTHING FOUND NOT IN COMPLIANCE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE

THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED COMPLIANT WITH THE LATEST EDITION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN AS PUBLISHED BY THE DEPARTMENT OF JUSTICE, UNLESS AND EXCEPT IN AREAS WHERE AN APPROVED STATEMENT FROM A SITE ENGINEER. SURVEYOR, OR ARCHITECT VERIFIES THAT SITE CONDITIONS EXIST WHERE THE TOPOGRAPHY OF THE SITE IS EXTREME AND ONLY ALTERNATE METHODS OF COMPLIANCE ARE

CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE

CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO THE ADA STANDARDS FOR ACCESSIBLE DESIGN AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH OF THE CURB RAMP, NOT INCLUDING FLARES.

ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN. LATEST EDITION.

BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES, IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.

CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ACCESSIBLE SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA COMPLIANCE ISSUES.

ANY COMPONENTS OF THE PROJECT SERVING MULTIFAMILY DWELLINGS IN BUILDINGS THAT HAVE 4 OR MORE UNITS PER DWELLING SHALL ALSO CONFORM TO THE FAIR HOUSING ACT (FHA), AND COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.

GENERAL EROSION CONTROL NOTES

PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST CLEARLY DELINEATE AND MARK OFF AREAS TO BE PROTECTED. AS IDENTIFIED IN THE SWPPP OR IN THE FIELD. (INCLUDING BUT NOT LIMITED TO STREAMS/WETLANDS, NATURAL BUFFERS, TREE, HABITATS OF ENDANGERED/THREATENED SPECIES, HISTORIC PROPERTIES, ETC.)

THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.

BMPS PROPOSED FOR SITE DEVELOPMENT HAVE BEEN DESIGNED TO ADDRESS CONSTRUCTION STORMWATER RUNOFF IN THE EVENT THE BMPS BECOME INFEFECTIVE AT PREVENTING SEDIMENT FROM LEAVING THE SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT ADDITIONAL BMPS.THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN BMPS AS DESCRIBED IN THE GENERAL PERMIT. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY THE EROSION CONTROL INSPECTOR

CONTRACTOR SHALL REVIEW THE GENERAL PERMIT PRIOR TO COMMENCING CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL KEEP A COPY OF THE APPROVED PLANS AND GENERAL

GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND IS SUBJECT TO A FINE.

UNLESS OTHERWISE INDICATED. ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE STATE WHICH THE WORK IS PERFORMED. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH

ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.

APPLICABLE STATE EROSION AND SEDIMENT CONTROL REGULATIONS,

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE. 10. CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF

DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT

POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, DRAINAGE SYSTEM STRUCTURE, OR LANDSCAPING.

. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.

13. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF

14. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION.

THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF

16. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.

. ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA OR THE STATE OR LOCAL AGENCY REGULATIONS, SHALL BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802), AND AS REQUIRED BY THE GENERAL PERMIT

THE CONTRACTOR SHALL MAINTAIN JURISDICTIONALLY REQUIRED BUFFERS OF UNDISTURBED NATURAL VEGETATION BETWEEN THE DISTURBED PORTIONS OF THE SITE AND SURFACES WATERS AT ALL TIMES. BUFFERS SHALL BE MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

19. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS). THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.

APPROVED EQUAL) ON ALL SITE AREAS WITH SLOPES GREATER THAN 2:1, AND IN THE BOTTOM AND SIDE SLOPES OF ALL SWALES, UNLESS OTHERWISE NOTED ON THE PLANS.

20. CONTRACTOR SHALL PLACE EROSION CONTROL BLANKET (NORTH AMERICAN GREEN SC150 OR

21. ALL DRAINAGE SWALES MUST BE GRADED AND RIP-RAP MUST BE REPLACED AS REQUIRED TO CONTROL EROSION. RIP-RAP WILL CONSIST OF 50 - 125 POUND STONES PLACED AT ALL OUTFALLS, AND WHERE NOTED ON CONSTRUCTION DRAWINGS. SEE DETAIL SHEET FOR **OUTFALL PIPE SIZE CHART.**

22. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED FOR ADDITIONAL CONTRACTOR LAYDOWN AREA. CONTRACTOR TO COORDINATE WITH ENGINEER DURING CONSTRUCTION. THE LIMITS OF DISTURBANCE SHOULD CONTAIN ANY ADDITIONAL LAYDOWN AREAS. IF ADDITIONAL LAYDOWN AREA IS NEEDED OUT SIDE THE LIMITS OF DISTURBANCE, A REVISED EROSION CONTROL PLAN SHOULD BE REVIEWED AND PERMITTED

23. PUMPING SEDIMENT LADEN WATER INTO ANY STORMWATER FACILITY THAT IS NOT DESIGNATED TO BE A SEDIMENT TRAP, DRAINAGEWAY, OR OFFSITE AREA EITHER DIRECTLY OR INDIRECTLY WITHOUT FILTRATION IS PROHIBITED DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET WATER REMOVED FROM TRAPS, BASINS, AND OTHER WATER HOLDING DEPRESSIONS OR EXCAVATIONS MUST FIRST PASS THROUGH A SEDIMENT CONTROL AND/OR FILTRATION DEVICE WHEN DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM

24. ALL TEMPORARY STORMWATER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.

25. SOIL STOCKPILES SHALL NOT BE LOCATED IN A DRAINAGE WAY, STOCKPILES, FLOOD PLAIN AREA, OR A DESIGNATED BUFFER. ALL STOCKPILES SHALL BE IMMEDIATELY STABILIZED AS REQUIRED BY THE GENERAL PERMIT

STORMWATER NOTES

REFER TO GENERAL UTILITY NOTES FOR ADDITIONAL REQUIREMENTS PERTAINING TO UNDERGROUND UTILITY AND STORMWATER PIPE INSTALLATION.

ALL NECESSARY PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE

CONTRACTOR MUST OBTAIN ALL PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. PIPE LENGTHS, GRADES, ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE ONLY. AS DIRECTED BY THE ENGINEER, THEY MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN

ALL STORM PIPE INSTALLED SHALL BE CLASS III RCP. UNLESS SPECIFICALLY NOTED OTHERWISE. EXISTING STORMWATER PIPE MATERIALS, MODIFIED, DAMAGED OR DEFORMED, ETC. SHALL NOT

BE REUSED UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENT AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.

6. ALL PIPES SHALL BE BEDDED PER MANUFACTURER'S RECOMMENDATIONS.

ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED WITH (4) SIDED BEARING HEAVY DUTY

H-20 RATED TRAFFIC RIMS AND GRATES. ALL CLEANOUT COVERS WITHIN THE PAVEMENT SECTIONS SHALL BE RATED FOR HEAVY DUTY

WEEPHOLES ARE TO BE CONSTRUCTED IN ALL DRAINAGE STRUCTURES, A MINIMUM OF 1 WEEPHOLE PER STRUCTURE. WEEPHOLES ARE TO BE CONSTRUCTED IN THE BOTTOM 1/3 OF STRUCTURE AND COVERED ON THE OUTSIDE OF THE STRUCTURE BY A BAG MADE OF FILTER FABRIC AND FILLED WITH #78 STONE.

10. CONTRACTOR SHALL PROVIDE CATCH BASIN INLET PROTECTION ON ALL EXISTING AND PROPOSED INLETS UNTIL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS

THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER

MANUFACTURER'S RECOMMENDATIONS. 12. GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING.

13. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION BETWEEN PROPOSED PAVEMENT AND EXISTING PAVEMENT AND STORM STRUCTURES

14. DURING CONSTRUCTION AND AFTER FINAL GRADING, NO SURFACE WATER RUNOFF MAY BE DIRECTED TO ADJACENT PROPERTIES, AND ALL SURFACE WATER RUNOFF MUST BE ROUTED TO APPROVED DRAINAGE FACILITIES OR BE RETAINED ON SITE. ALL RUNOFF FROM THE SITE, BOTH DURING AND AFTER CONSTRUCTION, MUST BE FREE OF POLLUTANTS, INCLUDING SEDIMENT, PRIOR TO DISCHARGE.

GENERAL DEMOLITION NOTES

COMMENCEMENT OF DEMOLITION.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS AND PAY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE APPROPRIATE AUTHORITIES. THESE FEES SHALL BE INCLUDED WITH THE BID. THE CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND ACQUIRE APPROPRIATE PERMITS AS REQUIRED PRIOR TO THE

DEMOLITION AS DEPICTED ON THE DEMOLITION PLAN IS INTENDED TO DESCRIBE GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY PRIOR TO WORK.

THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND LAWFUL DISPOSAL OF ALL STRUCTURES, PAVING, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE PLANS CAN BE CONSTRUCTED. ALL, FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL AS

ASBESTOS OR ANY OTHER HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR ONLY AFTER NOTIFICATION OF THE ENGINEER AND AUTHORIZATION TO PROCEED IS GIVEN BY THE OWNER.

THE CONTRACTOR SHALL PLIMP OUT BUILDING FUEL AND WASTE OIL TANKS (IF ANY ARE ENCOUNTERED) AND REMOVE FUEL TO AN APPROVED DISPOSAL AREA BY AN APPROPRIATELY LICENSED WASTE OIL HANDLING CONTRACTOR IN STRICT ACCORDANCE WITH FEDERAL AND STATE REQUIREMENTS ONLY AFTER NOTIFICATION OF THE ENGINEER AND AUTHORIZATION TO PROCEED IS GIVEN BY THE OWNER.

THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO ALL EXISTING FACILITIES AND OUTLOTS AT ALL TIMES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE SERVICE PROVIDERS AND COORDINATION THROUGH THE PROPERTY OWNER(S). THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN

THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES

THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY THE ITEMS SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.

ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.

SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONTRACTOR SHALL CONSULT THE ENGINEER AND OWNER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.

CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE OWNER.

CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING BUSINESSES AND PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING IMPROVEMENTS AND CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH THE OWNER(S)/ LEASEE(S) PRIOR TO ANY CONSTRUCTION TO ESTABLISH CUSTOMER ACCESS AND TRAFFIC FLOW DURING ALL PHASES.

SHOULD CONSTRUCTION ACTIVITIES DAMAGE EXISTING FEATURES, THE CONTRACTOR SHALL REPLACE THE FEATURES WITH NEW MATERIALS. DAMAGE TO ANY EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACES. FINISHED SURFACES TO BE REMOVED OR DEMOLISHED SHALL BE CUT ALONG LINES OF JOINTS WHICH WILL PERMIT A NEAT SURFACE WHEN RESTORED. SAW CUT AT INTERFACE OF PAVEMENT OR CURB TO REMAIN. SAW CUT EXISTING PAVEMENT AT THE RIGHT-OF-WAY. SAW CUTS SHALL BE MADE FULL DEPTH THROUGH THE EXISTING PAVEMENT. DISCARDED PAVEMENT SHALL BE REMOVED WITHOUT UNDERMINING THE EXISTING PAVEMENT. IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPAIR

CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE. CONTRACTOR SHALL COORDINATE/PHASE ALL CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF THE BUILDING AND UTILITY INTERRUPTIONS WITH THE PROPERTY OWNERS AND UTILITY PROVIDERS TO MINIMIZE DISTURBANCE AND INCONVENIENCE.

ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR. ANY WATER WELLS ENCOUNTERED ARE TO BE BROUGHT TO THE PROJECT ENGINEER'S

ATTENTION IMMEDIATELY AND PROPERLY ABANDONED BY A LICENSED WELL DRILLER. 18. ANY SEPTIC SYSTEMS ENCOUNTERED SHALL BE BROUGHT TO THE THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY AND SHALL BE PROPERLY DEMOLISHED.

ALL MONITORING WELLS ENCOUNTERED ARE TO BE BROUGHT TO THE PROJECT ENGINEER'S ATTENTION IMMEDIATELY AND SHALL BE PROPERLY PROTECTED UNLESS OTHERWISE NOTED.

GENERAL PAVING NOTES

CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION BETWEEN PROPOSED PAVEMENT EXISTING PAVEMENT AND ANY STRUCTURES

THE PROPOSED SPOT ELEVATIONS SHOWN ARE FINISHED ELEVATIONS INCLUDING ASPHALT AND CONCRETE. REFER TO PAVEMENT SECTIONS AND CURB DETAILS TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS

ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL REVIEW THE RECCOMENDATIONS OF THE GEOTECHNICAL ENGINEER PRIOR TO PAVING.

WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED. THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.

ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTIONAL RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR STATE DEPT. OF TRANSPORTATION SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

ALL ON-SITE STRIPING IS TO BE PAINTED, UNLESS OTHERWISE NOTED. ALL STRIPING IN PUBLIC RIGHT-OF-WAY TO BE THERMOPLASTIC STRIPING. TRANSVERSE EXPANSION JOINTS ARE TO BE PROVIDED IN CONCRETE SIDEWALKS AND

COMBINED WALKS/CURBS WHERE SHOWN AND AT INTERVALS NOT TO EXCEED 12 X THE WIDTH EXPANSION JOINTS SHALL BE INSTALLED IN CONCRETE PAVEMENTS AND WALKS AT ALL

LOCATIONS WHERE PAVEMENTS AND WALKS ABUT A VERTICAL SURFACE SUCH AS A CURB, WALL, COLUMN, ETC. CONTRACTION JOINTS SHALL BE PROVIDED AT EQUAL INTERVALS BETWEEN EXPANSION JOINTS

IN CONCRETE WALKS. INSTALL CONTRACTION JOINTS AS SHOWN BUT IN NO CASE AT INTERVALS GREATER THAN 1.5 X THE WIDTH OF THE WALK. 10. CONTRACTOR SHALL COORDINATE PAVING IMPROVEMENTS TO AVOID TIRE MARKS FROM

CONSTRUCTION ACTIVITY. FINAL PAVING SHALL BE AS SMOOTH AS POSSIBLE AND FREE FROM ANY CRACKS, SCRAPES, GOUGES, TIRE MARKS, ETC. CAUSED DURING CONSTRUCTION. 1. ALL NEW CONCRETE SHALL BE DOWELED INTO ALL EXISTING CONCRETE (PAVING, SIDEWALKS, CURB, ETC.). ALL STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH FINAL PAVEMENT.

GENERAL UTILITY NOTES

CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN ENCROACHMENT AGREEMENT PERMIT, AS REQUIRED, TO CONSTRUCT UTILITY CONNECTIONS

ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS

REFER TO ARCHITECTURAL /MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR CONTINUATION OF UTILITIES WITHIN 5 FEET OF STRUCTURES.

THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC OR PRIVATE UTILITIES (SHOWN OR NOT SHOWN) WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION. GRADING, OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CONTACT 811 FOR THE IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE.

EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE, FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. NOR FOR TEMPORARY BRACING AND SHORING OF SAME IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY FOR DIRECTIONS.

THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY THE UTILITY PROVIDER FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE. THE CONTRACTOR SHALL COORDINATE ANY INTERRUPTION OF UTILITY SERVICE WITH OWNER(S) AND RESPECTIVE UTILITY COMPANY REPRESENTATIVE.

CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE

CONTRACTOR SHALL SAW CUT, REMOVE, AND REPLACE ASPHALT PAVEMENT AS NECESSARY TO INSTALL UNDERGROUND ELECTRIC, TELEPHONE, SEWER, WATER, AND COMMUNICATION CONDUITS.PAVEMENTS, WALKS, CURBS AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION UNLESS OTHERWISE SHOWN.

10. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL POWER COMPANY STANDARDS CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION

REQUIREMENTS AND SPECIFICATIONS.CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES PRESSURE UTILITY MAINS AND SERVICE LINES MAY NEED TO BE INSTALLED AT A DEPTH GREATER THAN THAT SPECIFIED OR SHOWN ON THE DRAWINGS TO CLEAR EXISTING AND

PROPOSED CROSSING UTILITIES. IN SUCH CASES, THE CONTRACTOR SHALL INSTALL VERTICAL

WHERE GRADE MODIFICATIONS (CUT OR FILL) ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.

BENDS AS REQUIRED TO ACHIEVE APPROPRIATE CLEARANCE BETWEEN THE CROSSING

THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS FTC WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALI AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.

15. ALL PROPOSED STUBS SHALL BE CAPPED AND SHALL BE PROVIDED WITH FIELD MARKERS 16. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR SITE LIGHTING PER SITE LIGHTING PLAN

(BY OTHERS). 7. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR IRRIGATION PER IRRIGATION PLAN (BY

18. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, SURVEYED, AND APPROVED BEFORE BACKFILLING.

19. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.

20. ALL CONDUIT SHALL BE INSTALLED PER CURRENT NATIONAL ELECTRIC CODE (N.E.C.) AND MANUFACTURER REQUIREMENTS.

21. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE). 22. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED

REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS.

REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN. 23. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE

IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY

24. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY DUCTILE IRON PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS. WHICH, IN THE OPINION OF THE ENGINEER. OWNER. OR INSPECTOR RENDERS IT UNFIT FOR USE. SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S

. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING

26. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT

SHALL GOVERN. 27. UNDERGROUND WATER AND SANITARY SEWER LINES SHALL BE SURVEYED BY A PROFESSIONAL

LAND SURVEYOR LICENSED IN THE PROJECT STATE PRIOR TO BACK FILLING. 28. CONTRACTOR SHALL PERFORM. AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION, PRESSURE TESTS, AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDERS, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.

29. IF DETERMINED NECESSARY BY THE LOCAL JURISDICTION, THE CONTRACTOR SHALL ABANDON EXISTING WATER METERS. CUT THE CORPORATION STOP OFF, AND AIR-GAP THE SERVICES. 30. UNDERGROUND UTILITY, INCLUDING STORMWATER PIPES, SHALL BE INSTALLED IN ACCORDANCE

WITH THE FOLLOWING STANDARDS: A. NO MORE THAN 500 LF OF TRENCH MAY BE OPENED AT ONE TIME.

B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

TREE PROTECTION NOTES

THE CONTRACTOR SHALL PROTECT ALL TREES AND SHRUBS OUTSIDE OF CUT/FILL LINES. IN ADDITION TO THOSE THAT RECEIVE TREE/SHRUB PROTECTION BARRIERS. THE CONTRACTOR IS ALSO REQUESTED TO SAVE ALL OTHER EXISTING TREES AND SHRUBS WHERE POSSIBLE.

NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE PROTECTION ZONE. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.

NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED

TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING OR CONSTRUCTION BEGINS AND IS NOT TO BE REMOVED UNTIL AFTER CONSTRUCTION.

GENERAL GRADING NOTES

ALL NECESSARY PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR MUST OBTAIN ALL PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT

WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK, AND THIS MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.

CONTRACTOR SHALL REVIEW, UNDERSTAND AND IMPLEMENT ALL REQUIRED EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO ANY DISTURBANCE. THE CONTRACTOR SHALL GRADE THE SITE TO THE FLEVATIONS INDICATED. AND SHALL

WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR BLASTING ROCK IF BLAST ROCK IS ENCOUNTERED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL **BLASTING AND SAFETY REQUIREMENTS**

REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS

ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SEEDED.

THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE GEOTECHNICAL ENGINEERS SPECIFICATIONS. FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT

THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL SAID ITEMS

FIELD ADJUSTMENTS OF RIM ELEVATIONS OF STRUCTURES MAY BE REQUIRED TO MEET FIELD

CONDITIONS MAXIMUM HEIGHT OF ADJUSTING RINGS SHALL NOT EXCEED 12-INCHES ADJUSTMENTS OF CASTINGS WHERE THE TOTAL HEIGHT OF ADJUSTING RINGS WOULD EXCEED 12 INCHES SHALL BE MADE BY REPLACING THE CONE AND/OR BARREL SECTION OF THE STRUCTURE.

WHERE GRADE MODIFICATIONS ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.

12. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED UNLESS INDICATED OTHERWISE

14. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME

ON THE LANDSCAPE PLAN. 13. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.

CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER. 15. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO STATE DEPARTMENT OF TRANSPORTATION STANDARDS. IN THE

EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE

SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN. . ALL CUT OR FILL SLOPES SHALL BE 3 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER FOR APPROPRIATE SLOPE STABILIZATION ON ALL SLOPES STEEPER THAN 3:1. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING

18. SEED MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES. 19. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS

ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER. 20. GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING.

22. UNSUITABLE FILL BENEATH BUILDING PADS AND PAVED SURFACES MUST BE EXCAVATED AND

21. ALL SOIL USED FOR PLANTING SHALL CONSIST OF REGIONALLY APPROPRIATE SOILS.

AND 15) AS NEEDED TO PROVIDE A SMOOTH SURFACE FOR PAVING.

REPLACED AS RECOMMENDED BY A GEOTECHNICAL ENGINEER. 23. ALL PAVEMENT SUB GRADES SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF ASTM D-698 DENSITY AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS OR AS DIRECTED BY A GEOTECHNICAL ENGINEER FILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 8" LIETS. IN AREAS WHERE ROCK IS ENCOUNTERED AT FINAL SUB-GRADE FLEVATION. THE EXPOSED ROCK SHALL BE TOPPED WITH A LEVELING COURSE OF SANDY CLAY OR CLAYEY SAND (P.I. BETWEEN 4

ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL

WATER DISTRIBUTION NOTES

CONTRACTOR TO LOCATE TIE-INS TO ALL BUILDINGS BASED ON ARCH / MECHANICAL, ELECTRICAL

AND PLUMBING PLANS. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11

(AWWA C-151) (CLASS 50). WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 48 INCHES OF COVER AS MEASURED

PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF FITTINGS AND

FROM THE TOP OF THE PIPE TO THE FINAL FINISH GRADE ABOVE THE PIPE. THRUST BLOCKS OR JOINT RESTRAINTS SHALL BE INSTALLED ON ALL WATER LINES AT ALL BENDS, TEES AND HYDRANTS PER THE DETAILS.

APPURTENANCES ROUNDED TO THE NEAREST FOOT.

. WATER LINES SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS: 6" AND LARGER, PVC C-900, DR-18, PER ASTM D 2241 6" AND LARGER DUCTILE IRON PIPE PER AWWA C150

SMALLER THAN 6" EITHER COPPER TUBE TYPE "L" (SOFT) PER

ANSI 816.22 OR PVC, 200 P.S.I., PER ASTM D1784 AND D2241. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING IF DICTATED BY THE AUTHORITY HAVING JURISDICTION.

THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE

DEPT. CONNECTION POINTS, OR OTHER WATER USING APPURTENANCES CONNECTED TO THE

SUPPLY LINE BETWEEN ANY WATER METER AND ITS REQUIRED BACKFLOW PREVENTER. BACKFLOW PREVENTION ASSEMBLIES TO BE INSTALLED ABOVE-GROUND SHALL BE INSTALLED WITHIN INSULATED ENCLOSURE AND PERJURISDICTIONAL REQUIREMENTS. ENCLOSURES SHALL INCLUDE DRAIN PORT(S) FOR DISCHARGE WATER. CONTRACTOR SHALL ENSURE THE BACKFLOW PREVENTION ASSEMBLY AND ENCLOSURE IS INSTALLED OUTSIDE OF SIGHT DISTANCE

SANITARY SEWER NOTES

10. ALL BACKFLOW PREVENTERS SHALL BE HEATED.

COVERS AND FRAMES PER THE SAME STANDARD.

. CONTRACTOR TO LOCATE LATERAL CONNECTIONS TO BUILDING PER PLUMBING PLANS.

TRIANGLES AT INTERSECTIONS WITH VEHICULAR TRAVEL WAYS.

3. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES AND ARE ROUNDED TO THE NEAREST FOOT. . A MINIMUM HORIZONTAL SEPARATION OF 10 FEET BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT ALL TIMES. A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN WATER

. PLACE CLEAN-OUTS ON SANITARY SEWER LATERALS AS REQUIRED BY PLUMBING CODE.

SEPARATION REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL UTILIZE PRESSURE-TYPE WATER PIPE FOR THE SEWER PER DETAIL. 5. SANITARY SEWER PIPE SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS:

LINES AND SEWERS SHALL BE MAINTAINED AT CROSSINGS. IN THE EVENT THAT MINIMUM

8" PVC SDR35 PER ASTM D 3034, FOR PIPES LESS THAN 12' DEEP 8" PVC SDR26 PER ASTM D 3034, FOR PIPES MORE THAN 12' DEEP 6" PVC SCHEDULE 40

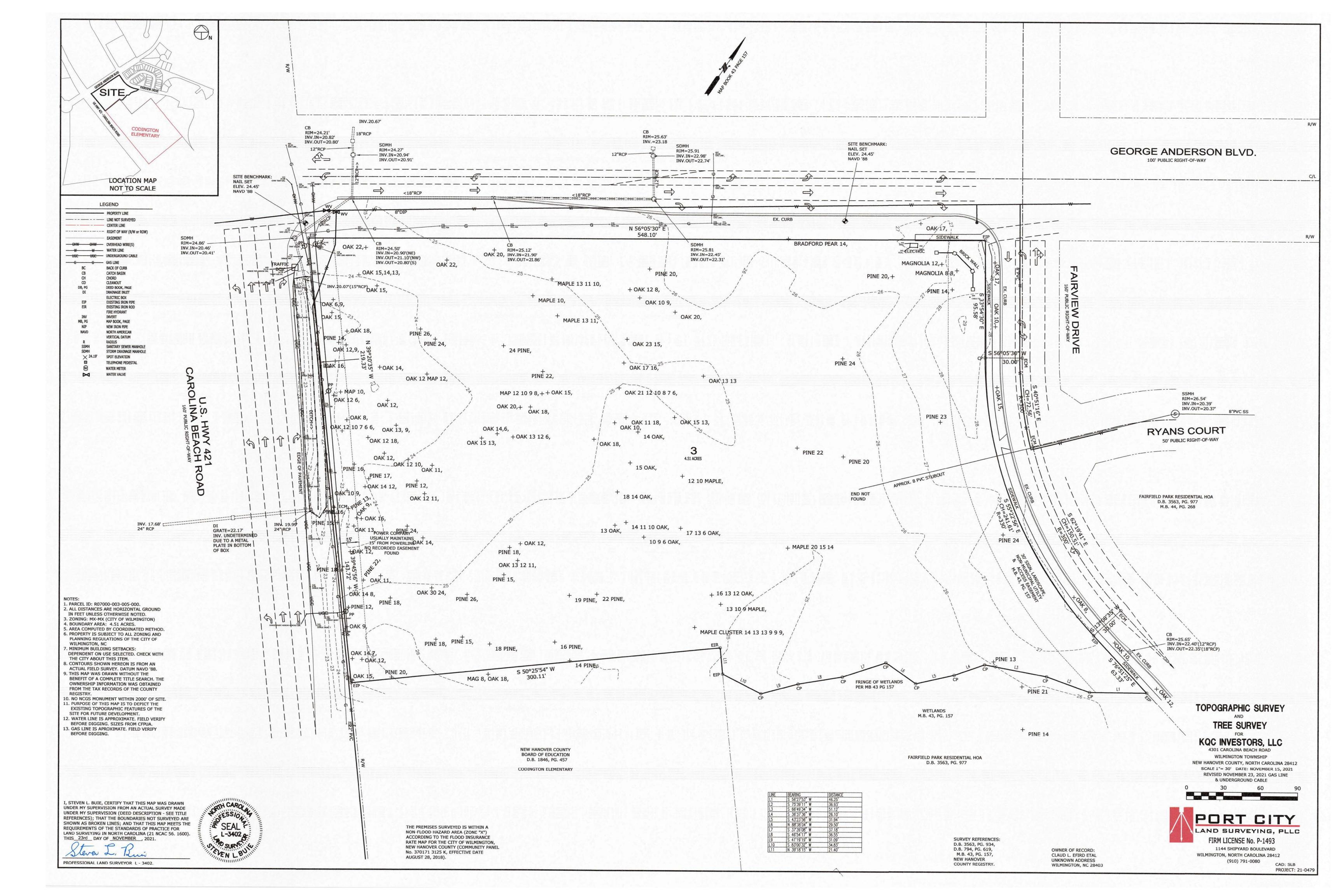
DUCTILE IRON PIPE PER AWWA C150 WHENEVER VERTICAL DISTANCE BETWEEN OUTGOING AND INCOMING SEWERS IS MORE THAN 2 FEET AN OUTSIDE DROP MANHOLE SHALL BE INSTALLED. SANITARY SEWER STRUCTURES SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE

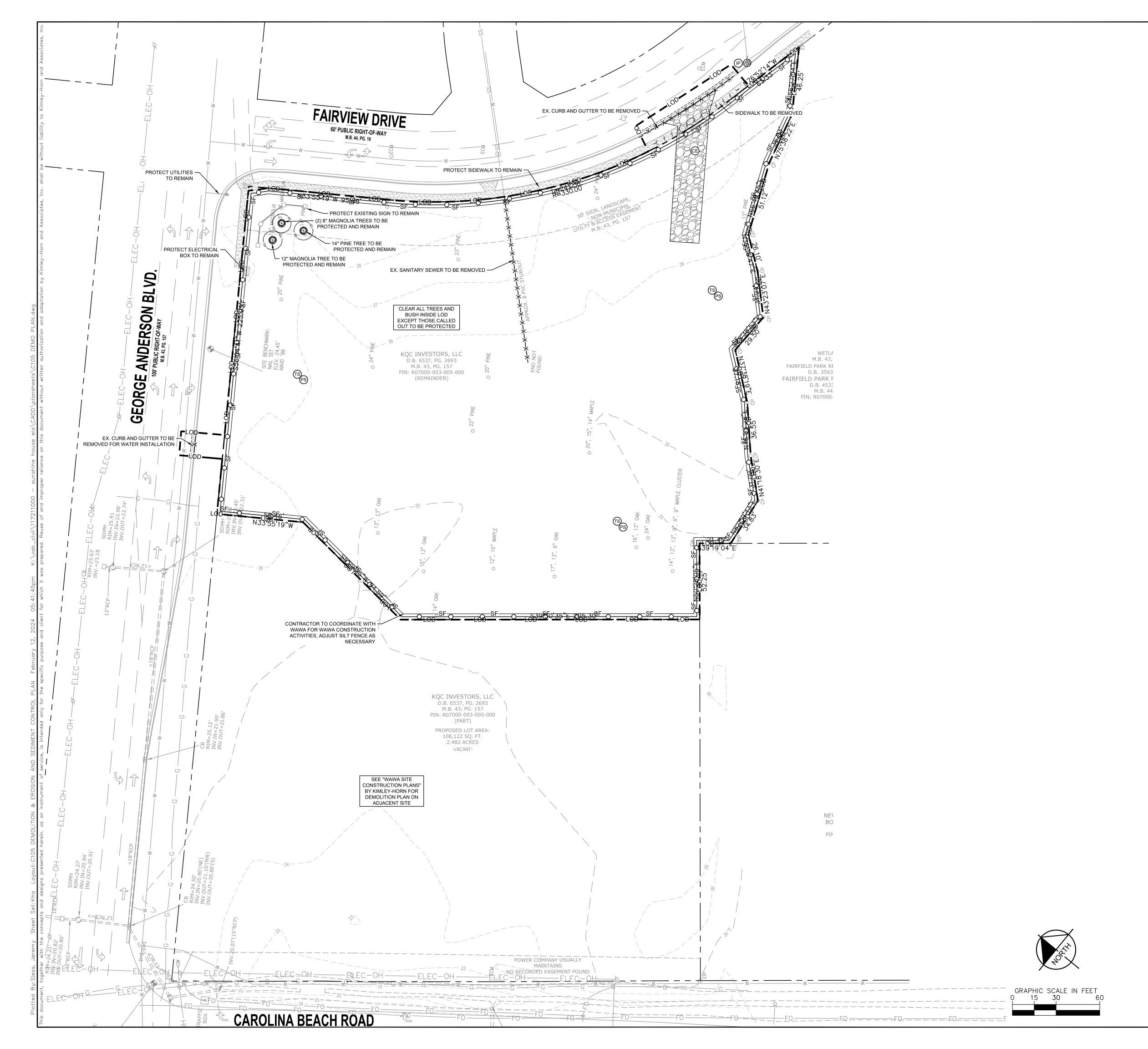
48" DIAMETER PRECAST CONCRETE MANHOLE PER ASTM C478. 48" DIAMETER PRECAST POLYETHYLENE IN ACCORDANCE WITH ASTM D1248. MANHOLES SHALL HAVE A COMPRESSIVE STRENGTH THAT MEETS ASTM D2412. ALL MANHOLES AND CLEANOUTS SHALL BE H20 TRAFFIC GRADE AND RATED WITH HEAVY DUTY



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DEMOLITION AND EROSION CONTROL GENERAL NOTES

- THE DEMOLITION AND EROSION CONTROL PLAN IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION AND FOR THE DEMOLITION, REMOVAL, OR RELOCATIONS OF ITEMS IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
- REMOVE ALL EXISTING ITEMS WITHIN THE LIMITS OF DISTURBANCE UNLESS OTHERWISE INDICATED INCLUDING UNDERGROUND UTILITIES, PAVING, UNDERGROUND STORAGE TANKS, AND ANY OTHER EXISTING IMPROVEMENTS.
- CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES REGARDING REMOVAL/DISCONNECTION OF UTILITY LINES TO ENSURE SERVICES TO OTHER PROPERTIES
- ARE NOT INTERRUPTED. CONTRACTOR TO FOLLOW UTILITY SAFETY AND OSHA REGULATIONS. CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR SHALL APPLY PERMANENT SOIL STABILIZATION TO ALL DENUDED OR DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY STABILIZATION SHALL BE APPLIED TO ANY DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 14 DAYS. SOIL STABILIZATION MEASURES INCLUDE VEGETATIVE ESTABLISHMENT AND MULCHING.

NOTE TO CONTRACTOR

CONTRACTOR SHALL TAKE EXTREME CARE WHEN WORKING AROUND EXISTING UTILITIES. CONTRACTOR SHALL REPAIR ANY DAMAGED FEATURES/UTILITIES TO THAT OF EXISTING OR BETTER CONDITION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL REPAIRS TO ANY DAMAGED ROADWAYS, CURB AND GUTTER, ASPHALT, ETC.

CONTRACTOR SHALL COMPLETELY REMOVE ALL FEATURES WITHIN THE LIMITS OF CONSTRUCTION / OVERALL PROJECT BOUNDARY IN ORDER TO CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN IN

TREE PROTECTION NOTES

- THE CONTRACTOR SHALL PROTECT ALL TREES AND SHRUBS OUTSIDE OF CUT/FILL LINES, IN ADDITION TO THOSE THAT RECEIVE TREE/SHRUB PROTECTION BARRIERS. THE CONTRACTOR IS ALSO REQUESTED TO SAVE ALL OTHER EXISTING TREES AND SHRUBS WHERE POSSIBLE.
- WHEN ROOT PRUNING IS NECESSARY, CUT ROOTS CLEANLY USING A DISC TRENCHER AND IMMEDIATELY COVER ALL ROOT CUT SURFACES LARGER THAN TWO INCHES IN DIAMETER WITH TREE WOUND DRESSING. USE PLYWOOD FORMS WHEN TREE ROOTS ARE ADJACENT TO PROPOSED CURB & GUTTER OR SIDEWALK.
- NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE PROTECTION ZONE. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
- NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED
- TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING OR CONSTRUCTION BEGINS AND IS NOT TO BE REMOVED UNTIL AFTER CONSTRUCTION.

DEMOLITION LEGEND					
-X-X-X-X-X-X-X EXISTING LINEAR ITEM TO B	BE REMOVE				
-/ -/ -/ -/ EXISTING SIDEWALK TO BE					
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SAFETY FENCE					
INLET PROTECTION					
PS PERMENANT SEEDING					
TS TEMPORARY SEEDING					

CAUTION!! CONTRACTOR IS TO VERIFY PRESENCE AND EXACT **LOCATION OF ALL UTILITIES** PRIOR TO CONSTRUCTION.

CAUTION!

EXISTING OVERHEAD AND UNDERGROUND UTILITIES

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SHEET NUMBER

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THE PROPOSED PROJECT SITE IS LOCATED AT THE CORNER OF CAROLINA BEACH ROAD AND GEORGE ANDERSON DRIVE. THE DEVELOPMENT WILL CONSIST OF A 12,500 SF CHILD DAYCARE AND EARLY LEARNING FACILITY AND PARKING LOT. THERE WILL BE A FULL ACCESS DRIVEWAY ENTERING THE SITE FROM FAIRVIEW DRIVE AS WELL AS A ONE WAY EXIT WITHIN THE SITE. THE PROJECT WILL CONSIST OF 2.2 AC OF ON—SITE DISTURBANCE.

EXISTING SITE CONDITIONS

THE EXISTING LOT IS VACANT - OCCUPIED BY A FORESTED AREA.

ADJACENT AREAS

THE ADJACENT SITE, TO BE DEVELOPED BY OTHERS, WILL HAVE CONNECTIONS TO PROPOSED IMPROVEMENTS WITH THIS PLAN.

CRITICAL AREAS

THERE ARE NO CRITICAL EROSION ZONES LOCATED WITHIN THE LIMITS OF DISTURBANCE.

EROSION AND SEDIMENT CONTROL MEASURES

<u>CONSTRUCTION ENTRANCE</u> A CONSTRUCTION ENTRANCE IS PROPOSED TO PROVIDE A BUFFER AREA WHERE VEHICLES CAN DROP THEIR MUD AND SEDIMENT TO AVOID TRANSPORTING IT ONTO PUBLIC ROADS, TO CONTROL EROSION FROM SURFACE RUNOFF, AND TO HELP

SILT FENCE SILT FENCE IS PROPOSED TO RETAIN SEDIMENT FROM SMALL DISTURBED AREAS BY REDUCING THE VELOCITY OF SHEET FLOWS TO ALLOW SEDIMENT DEPOSITION.

INLET PROTECTION
INLET PROTECTION IS PROPOSED TO TRAP SEDIMENT AT THE APPROACH TO THE STORM DRAINAGE SYSTEM.

TEMPORARY SEEDING
TEMPORARY SEEDING IS PROPOSED TO TEMPORARY STABILIZE DENUDED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 21 CALENDAR DAYS. TEMPORARY SEEDING CONTROLS RUNOFF AND EROSION UNTIL PERMANENT VEGETATION OR OTHER EROSION CONTROL MEASURES CAN BE ESTABLISHED. IN ADDITION, IT PROVIDES RESIDUE FOR SOIL PROTECTION AND SEEDBED PREPARATION, AND REDUCES PROBLEMS OF MUD AND DUST PRODUCTION FROM BARE SOIL SURFACES DURING CONSTRUCTION.

PERMANENT SEEDING
PERMANENT SEEDING IS PROPOSED TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS, TO PERMANENTLY STABILIZE SUCH AREAS IN A MANNER THAT IS ECONOMICAL, ADAPTS TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS.

TREE PROTECTION IS PROPOSED TO PROTECT PARTICULAR SPECIES OF EXISTING TREES IN THE AREA. TEES MARKED FOR PROTECTION ARE TO REMAIN THROUGH THE COMPLETION OF THE PROJECT.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN NECESSARY PERMITS BEFORE THE START OF CONSTRUCTION.
- 2. REMOVE SIDEWALK AND CURB AND GUTTER REQUIRED TO INSTALL CONSTRUCTION ENTRANCE AND INSTALL CONSTRUCTION ENTRANCE.
- INSTALL SILT FENCE, SAFETY FENCE, INLET PROTECTION, AND TREE PROTECTION
- CLEAR TREES WITHIN LOD UNLESS OTHERWISE MARKED ON SHEET C105 ROUGH GRADE THE SITE.
- 6. STABILIZATION FOR ALL AREAS TO REMAIN DENUDED FOR A PERIOD OF 21 DAYS OR LONGER SHALL BE INITIATED WITHIN TWENTY—FOUR (24) HOURS AFTER CONSTRUCTION ACTIVITY CEASES IN THESE AREAS. TEMPORARY SEEDING STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS OF INITIATION.
- 7. CONTRACTOR TO INSTALL WATER LINE, SANITARY SEWER, STORM SEWER AND ALL
- 8. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE
- IS PLACED.
- 9. PREPARE BUILDING PAD. 10. PROMPTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
- 11. INSTALL SIDEWALK, ENTRANCES, CURB AND GUTTER, AND ANY OTHER IMPROVEMENTS DETAILED ON THE SITE PLAN WITHIN THE RIGHT-OF-WAY.
- 12. PLACE TOPSOIL ON ALL LANDSCAPED AREAS. SOD OR MULCH ALL DENUDED AREAS OUTSIDE OF LEASE AREA.





AND EROSION, SEDIMENT CC

FOUNDATION EARL LEARNING

March Section Sectio					D DISTURBING AC		RAL PERMIT NCG010 S. 113A-54.1			in Part 3A the	RMWATER PLANS AN Reference letter and pro TE: Reference letters n	ovide the Co	rrective Action	n and location	n of the defic	ciency, the or	iginal date noted, and	the date it wa	as noted as be	eing
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By this signature, I certify in accordance with the NCG010000 permit & G.S. 113A-54.1 that this report is accurate and complete to the best of my knowledge.

Date & Time of Inspection

Financially Responsible Party / Permittee or Agent / Designee



FORMS NCG01 ESCP

FOUNDATION EARL LEARNING PREPARED FOR KQC INVESTORS,

SHEET NUMBER

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (anc this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	I. Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: Actions taken to clean up or stabilize the sediment that has left the site limits, Description, evidence, and date of corrective actions taken, and An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

In addition to the E&SC plan documents above, the following items shall be kept on the

site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- . Documentation to be Retained for Three Years All data used to complete the e-NOI and all inspection records shall be maintained for a period

of three years after project completion and made available upon request. [40 CFR 122.41]

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include
- properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems, (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

1. Occurrences that Must be Reported Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or • They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800)

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40]	Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue: and steps taken or planned to reduce, eliminate, and

prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).

Division staff may waive the requirement for a written report on a

NORTH CAROLINA Environmental Quality

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction

SECTION E: GROUND STABILIZATION

	Re	equired Ground Stabil	ization Timeframes
Si	te Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b)	High Quality Water (HQW) Zones	7	None
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e)	Areas with slopes flatter than 4:1	14	 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zor -10 days for Falls Lake Watershed unles there is zero slope

ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

·
Temporary Stabilization
• Temporary grass seed covered with straw or
other mulches and tackifiers
Hydroseeding
 Rolled erosion control products with or
without temporary grass seed

Plastic sheeting

- Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil
- Appropriately applied straw or other mulch Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion

Rolled erosion control products with grass seed

reinforcement matting

Hydroseeding

 Structural methods such as concrete, asphalt or retaining walls

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- 1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. 3. Apply flocculants at the concentrations specified in the NC DWR List of Approved
- PAMS/Flocculants and in accordance with the manufacturer's instructions. . Provide ponding area for containment of treated Stormwater before discharging
- 5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE Maintain vehicles and equipment to prevent discharge of fluids.

CFR 122.41(I)(7)]

- 2. Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from the
- 4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible). Remove leaking vehicles and construction equipment from service until the problem
- has been corrected. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products
- to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if
- containers overflow. 8. Dispose waste off-site at an approved disposal facility.

9. On business days, clean up and dispose of waste in designated waste containers. PAINT AND OTHER LIQUID WASTE

- 1. Do not dump paint and other liquid waste into storm drains, streams or wetlands. 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

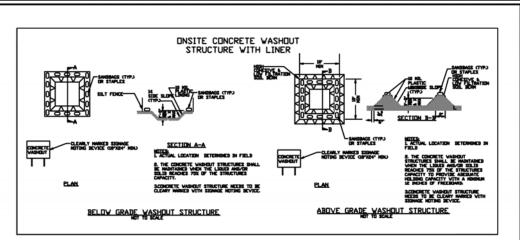
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high Monitor portable toilets for leaking and properly dispose of any leaked material.
- Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile. Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.





CONCRETE WASHOUTS

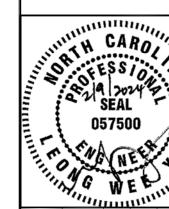
- . Do not discharge concrete or cement slurry from the site. Dispose of, or recycle settled, hardened concrete residue in accordance with local
- and state solid waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within
- lot perimeter silt fence. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for
- review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or
- discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive
- spills or overflow. Locate washouts in an easily accessible area, on level ground and install a stone
- entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- 10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

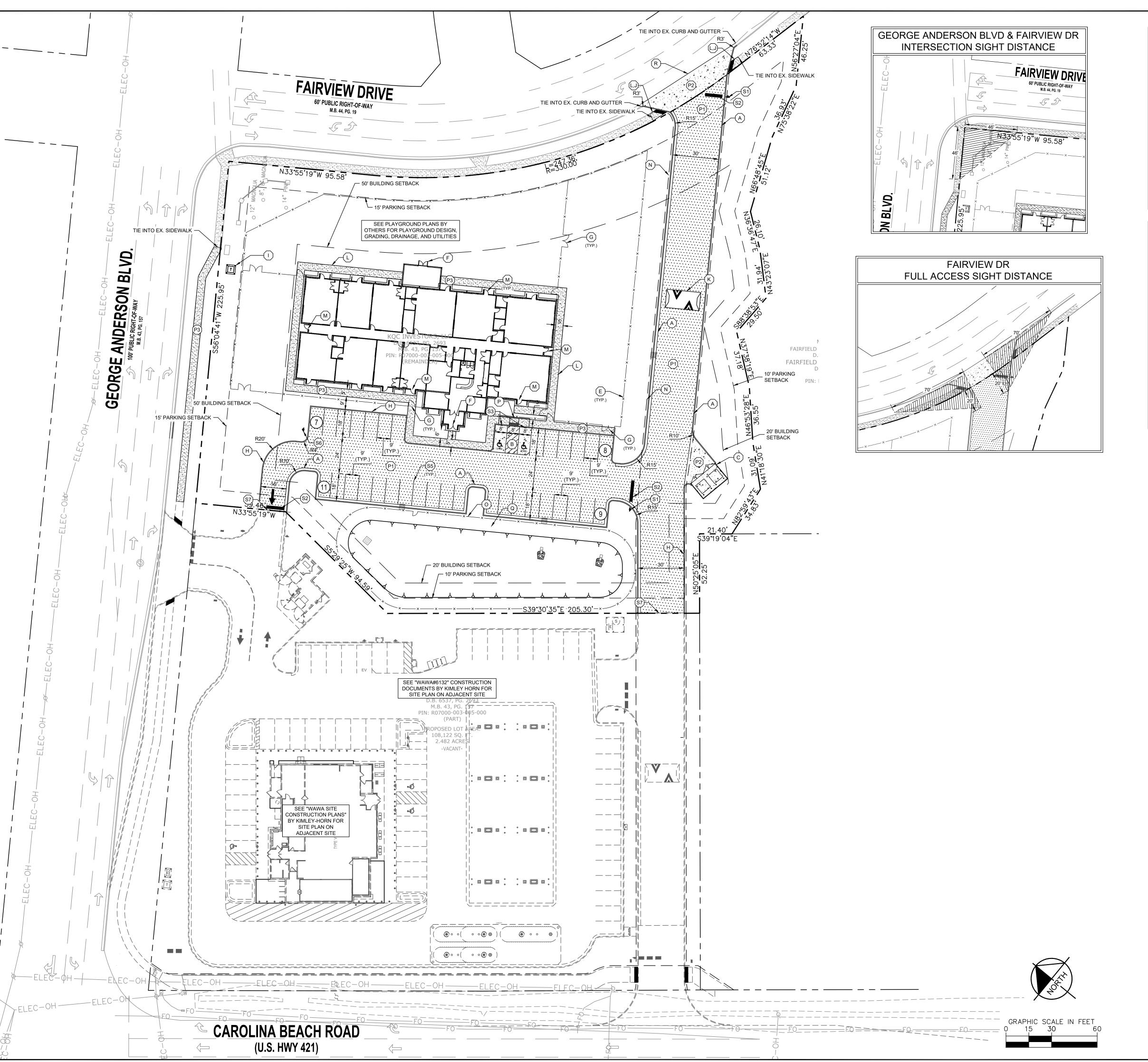
- Store and apply herbicides, pesticides and rodenticides in accordance with label
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately. 4. Do not stockpile these materials onsite.

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment. 3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

EFFECTIVE: 04/01/19

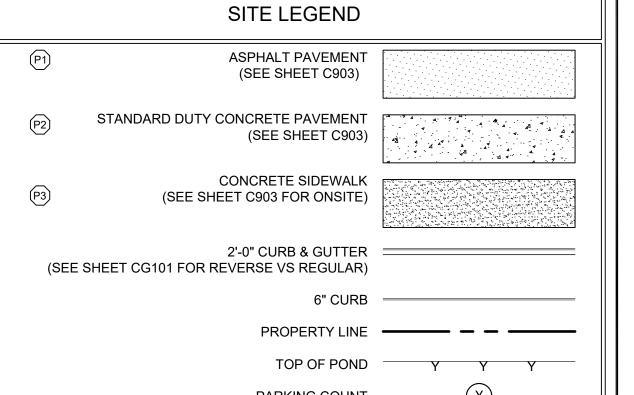


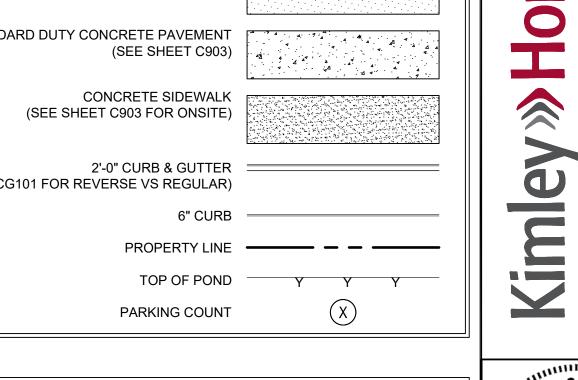
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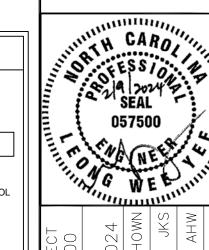


SITE NOTES

- ALL CURB RADII ARE 3.0' UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- TWO COATS YELLOW TRAFFIC PAINT (4" MIN. WIDTH) REQUIRED FOR PAVEMENT STRIPING EXCEPT TWO COATS BLUE TRAFFIC PAINT SHALL BE USED FOR ACCESSIBLE PARKING AREA (18" LETTERS, 2" PAINT
- PROPOSED CONCRETE PADS TO HAVE 2 FT X 2 FT CHAMFERED CORNERS.
- ALL LIGHTING TO BE INSTALLED 5' BEHIND CURB AND CENTERED ON PAVEMENT STRIPING UNLESS OTHERWISE NOTED.
- TYING TO EXISTING CURB/GUTTER: THE EXISTING PAVEMENT SHALL BE NEATLY SAWCUT AND REMOVED FOR A DISTANCE OF 2'-0" FROM THE FACE OF CURB AND 2'-0" FROM THE EDGE OF CURB AND GUTTER AND THE SUBGRADE, BASE COURSE, AND PAVING REPLACED WITH NEW PRODUCTS.
- REFER TO SHEETS CS501 CS502 FOR FOUNDATION EARLY LEARNING STANDARD DETAILS. SEE SHEETS C901 - C902 FOR CONSTRUCTION DETAILS.
- FOR BUILDING AND PLAYGROUND INFORMATION, SEE ARCHITECTURE PLANS.







ACCESSIBLE PARKING SPACE TYPICAL. SEE DETAIL SHEETS FOR PARKING SPACE SIGN AND SYMBOL

SPEED HUMP 22.5' STANDARD SPEED HUMP BY TREETOP PRODUCTS OR APPROVED SIMILAR

5' WIDE CONCRETE SIDEWALK (SEE CITY OF WILMINGTON DETAIL) **EMERGENCY EXIT**

ADA RAMP WITH DETECTABLE WARNING (SEE DETAIL SHEET)

33' WIDE PRIVATE CROSS ACCESS EASEMENT 4' TALL CHAIN LINK FENCE WITH GATES

(2) PARALLEL CURB RAMPS INFILTRATION POND

SITE PLAN KEY NOTES

BUILDING ENTRANCE

6' TALL PRIVACY FENCE GATE

1. SEE "GENERAL NOTES" SHEET FOR SITE GENERAL NOTES .

LIGHT POLES (SEE LIGHTING PLAN) - NOT USED

6' TALL PRIVACY FENCE (SEE DETAIL SHEET)

6" CONCRETE CURB (SEE DETAIL SHEET) TRANSFORMER WITH FOUR (4) BOLLARDS

(A) 2' CURB AND GUTTER (SEE SITE DETAIL SHEET)

2. SEE "SITE DETAIL" SHEETS FOR DETAILS REFERENCED ON THE SITE PLANS.

DUMPSTER ENCLOSURE (SEE ARCHITECTURAL PLANS FOR DETAILS)

SITE IMPROVEMENTS

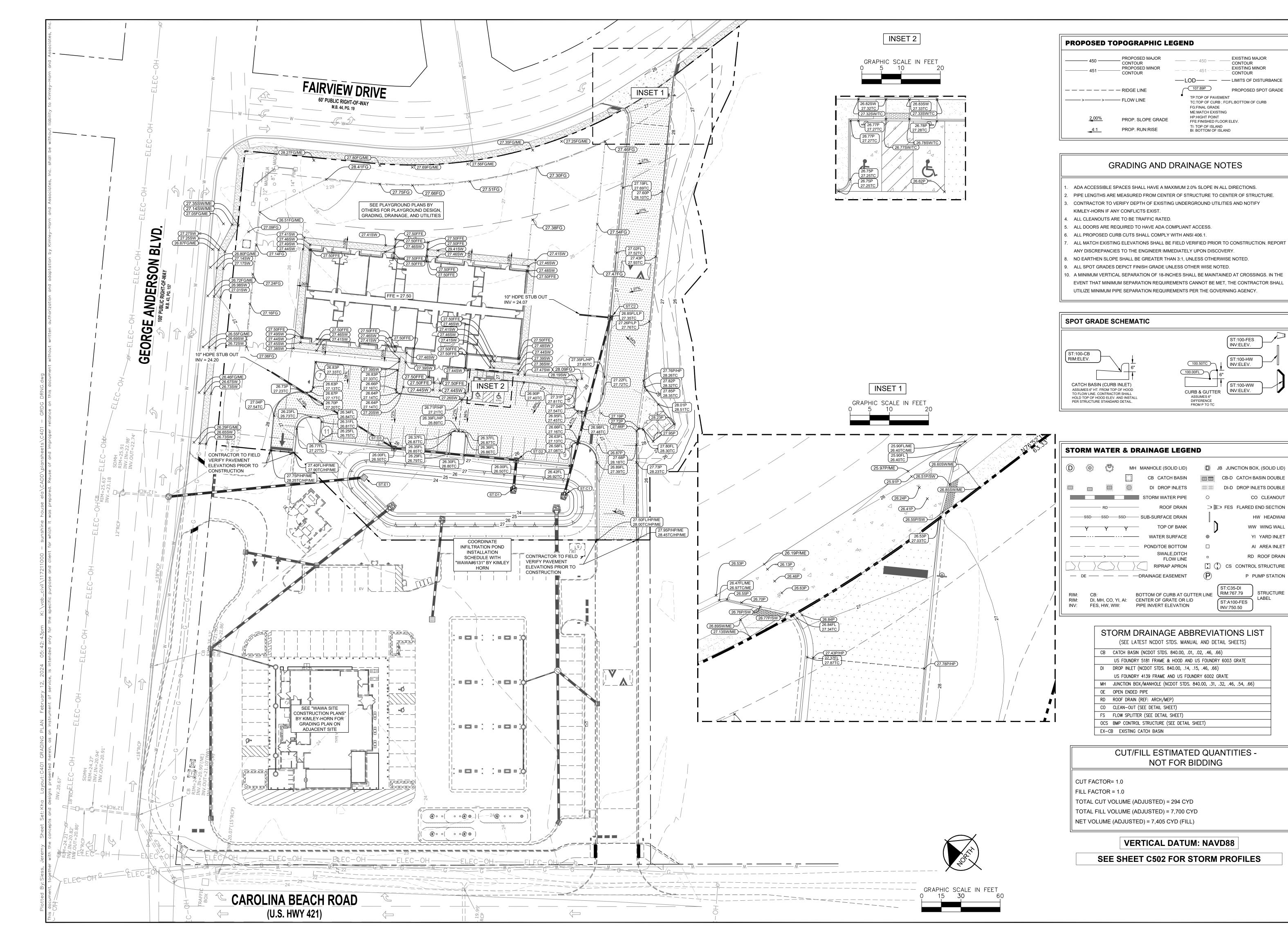
(R) SD 3-3.0 COMMERCIAL DRIVEWAY SITE SIGNAGE AND PAVEMENT MARKINGS

(S1) | 281 00 PD 6 IBAN (SEED DYETTATIE STEEL B) AR (SEE SITE DETAIL SHEET)

ACCESSIBLE PARKING SIGN (SEE DETAIL SHEET) 4" WIDE SINGLE YELLOW SOLID LINE (SEE DETAIL SHEET) "ONE WAY" (SEE DETAIL SHEET)

TYPE III BARRICADE

SHEET NUMBER



0

EXISTING MAJOR

EXISTING MINOR

PROPOSED SPOT GRADE

CONTOUR

CONTOUR

CO CLEANOUT

HW HEADWAII WW WING WALL

YI YARD INLET

AI AREA INLET

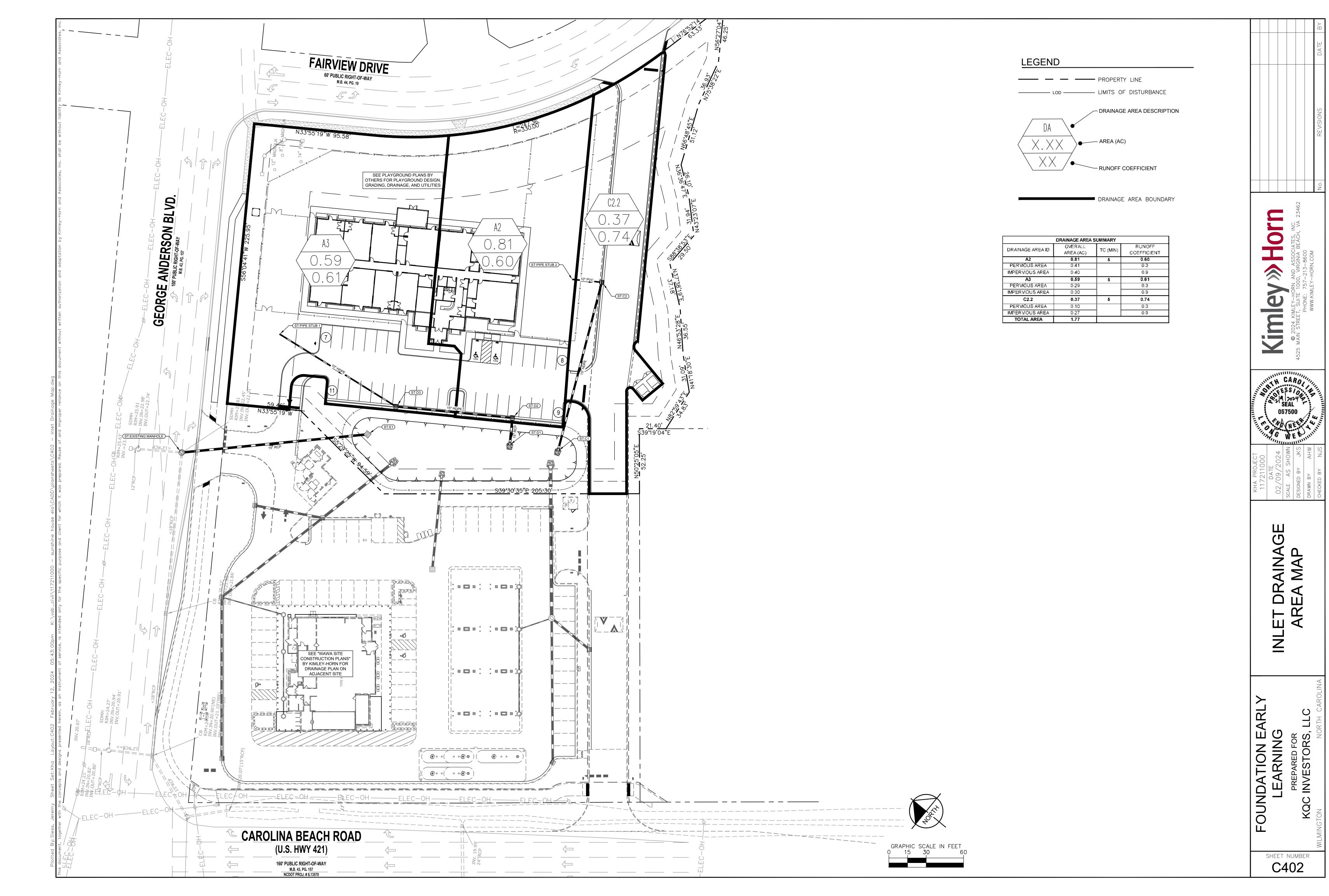
RD ROOF DRAIN

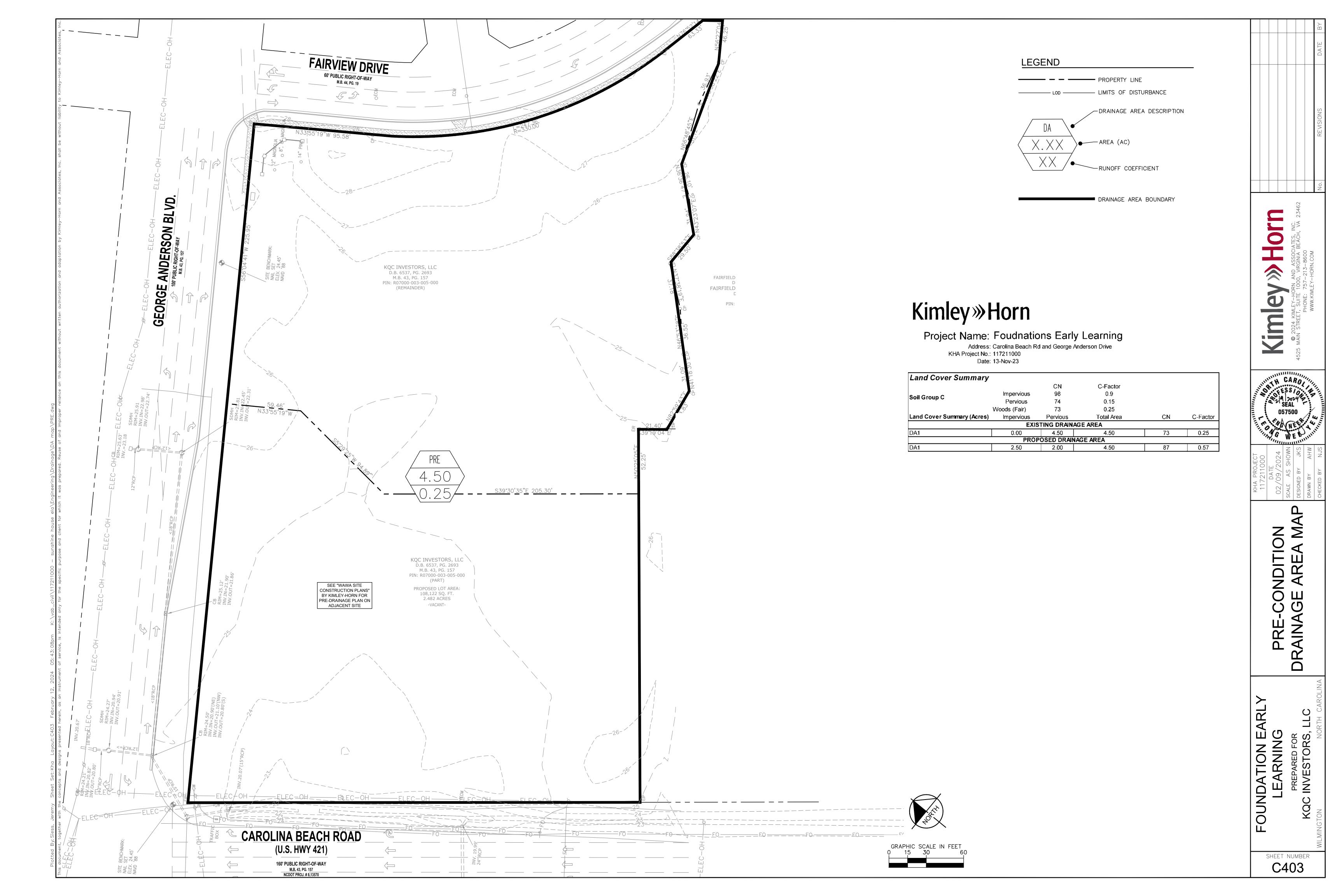
P PUMP STATION

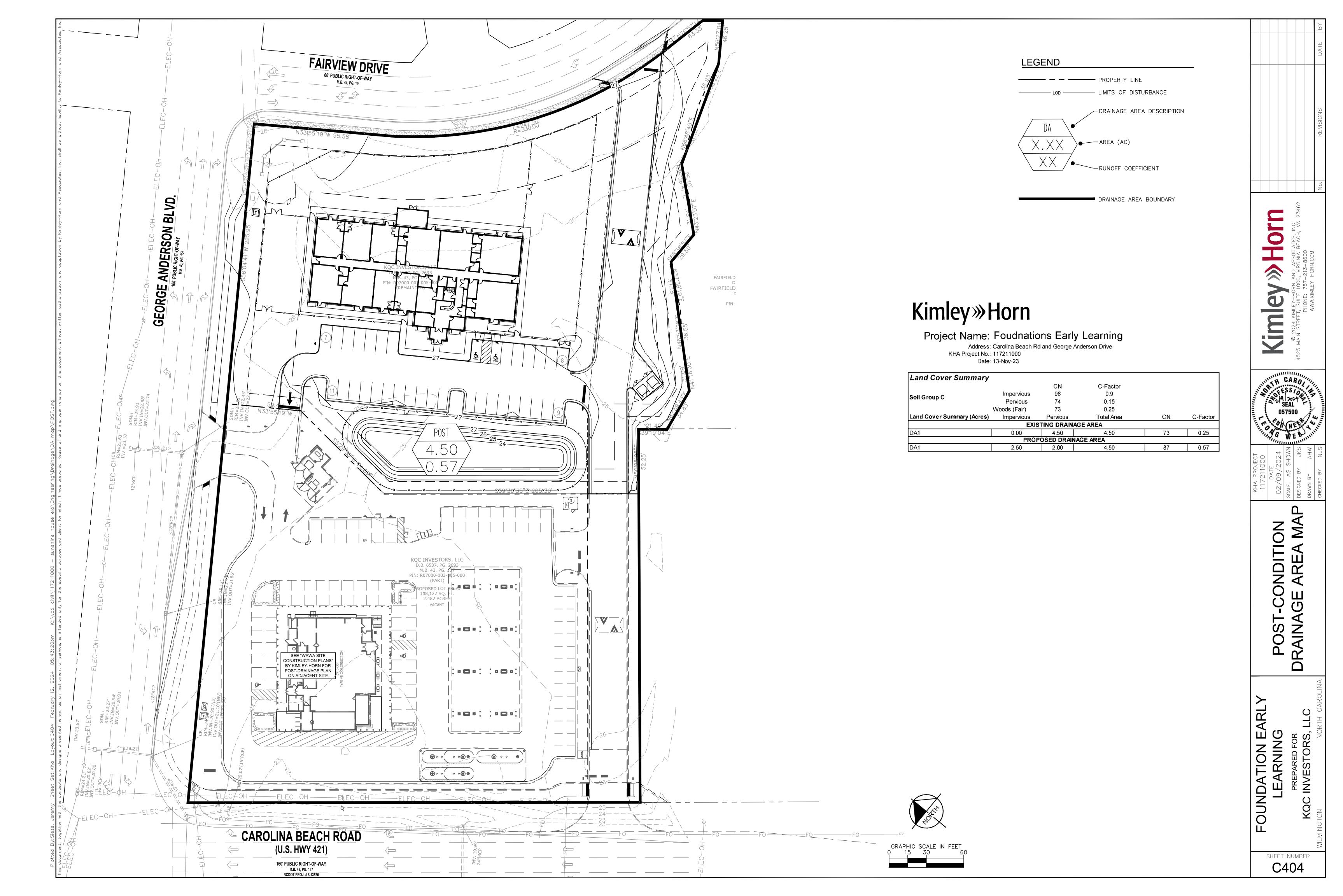
STRUCTURE

GRADING

OUNDATION EARL LEARNING







infrastructure, parking lot, and stormwater control dry pond. The project includes 2.2 acres of land disturbance. A shared master-planned stormwater pond will treat the quality and quantity requirements for Foundation Early Learning as well as for site plan: Wawa#6132 by Kimley Horn. The development of the two parcels was analyzed for stormwater compliance from a pre-condition of primarily forested area to a post-developed condition. The adjacent development, Wawa#6132, will maintain an average maximum post-development C-factor of 0.57 with the Foundation Early Learning site plan for the enclosed stormwater calculations and models to be accurate.

According to City of Wilmington Code of Ordinances, the quality design storm will be the 1-year storm and the quantity storms will be the 2, 10, and 25-year storms. Below is a tabulation of the modeled flows using rational method via modeling software HydraFlow.

Storm Event:	1-yr	2-yr	10-yr	25-yr
Units:	(cfs)	(cfs)	(cfs)	(cfs)
Pre	3.25	3.93	5.39	6.21
Post	2.43	2.76	3.31	3.59

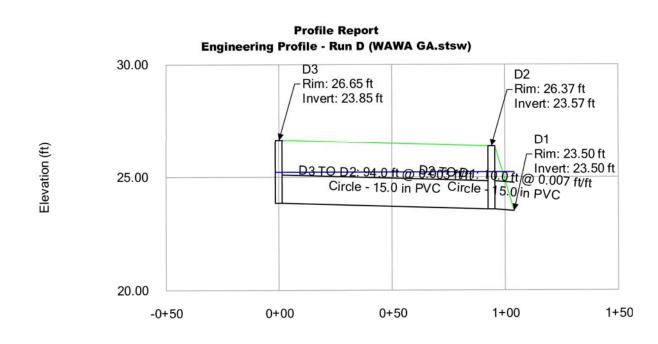
The model takes the area of the parcel and feeds it through the proposed dry pond which will have a bottom-of-pond elevation of 23.50 and a top of bank elevation of 27.50. The 100-yr rise in the pond is 25.66, providing 1.84' of freeboard. Stormwater tabulations included on this plan.

Additionally, on-site storm infrastructure has been sized to accommodate the 10 year storm. Using StormCAD, the 10-year rise in the pond (25.22ft) is set as the tailwater elevation (see 'FlexTable: Outfall Table' and included engineering profiles).

	E	Pro Ingineering Profile	ofile Report e - Run C (WAWA	A GA.stsw)	
	30.00	C2 Rim: 26 Invert:	6.85 ft 23.99 ft		C1
Elevation (ft)	25.00		C2 TO C1: 140.0 Circle - 15.0	ft @ 0.003 ft/ft) in PVC	Rim: 23.50 ft Invert: 23.50 ft
	20.00	0+00	0+50	1+00	1+50

Station (ft)

StormCAD [10.04.00.158] Page 1 of 1



	Station (ft)	
WAWA GA.stsw 2/8/2024	Bentley Systems, Inc. Haestad Methods Solution Center 75 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203- 755-1666	StormCAD [10.04.00.158 Page 1 of 1

	FlexTable: Catchment Table								
ID	Label	Outflow Element	Area (User Defined) (acres)	Runoff Coefficient (Rational)	Time of Concentration (hours)	Flow (Total Out) (cfs)			
80	A3	D3	0.590	0.610	0.000	0.30			
81	A2	D2	0.810	0.600	0.000	0.40			
82	C2	C2	0.370	0.740	0.000	0.23			

			FlexT	able: Outfa	II Table	_	
ID	Label	Elevation (Ground) (ft)	Set Rim to Ground Elevation?	Elevation (Invert) (ft)	Boundary Condition Type	Elevation (User Defined Tailwater) (ft)	Hydraulic Grade (ft)
68	D1	23.50	True	23.50	User Defined Tailwater	25.22	25.22
71	C1	23.50	True	23.50	User Defined Tailwater	25.22	25.22
Flow (Total Out) (cfs)							
0.84							
0.23							

					FlexT	able	e: Condui	it Tabl	e			
Label	Invert (Start) (ft)	Invert (Stop) (ft)	Has Defined		Length (User Defined (ft)		Slope (Calculated) (ft/ft)	Section Type	Diameter (in)	Manning's n	Flow (cfs)	Velocity (ft/s)
D2 TO D1	23.57	23.50	Tru	ue e	10	.0	0.007	7 Circle	15.0	0.010	0.82	0.67
D3 TO D2	23.85	23.57	Tru	ue 91	94	.0	0.003	Circle	15.0	0.010	0.30	0.24
C2 TO C1	23.99	23.50	Tru	ıe	140	.0	0.003	Circle	15.0	0.010	0.23	2.05
Depth (Out) (ft)	Capacity (Full Flow) (cfs)	(De	Capacity sign) %)	Ř	Normal) / tise %)		Material					
1.72	7.0	03	11.7		23.1	PVC						
1.65	4.5	58	6.5		17.2	PVC	- 1					
1.72	4.9	97	4.5		14.5	PVC						

			FlexTa	ble: Manho	ole Table			
Label	Elevation (Ground) (ft)	Set Rim to Ground Elevation?	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Flow (Total Out) (cfs)	Depth (Out) (ft)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)
C2	26.85	True	26.85	23.99	0.23	1.23	25.22	25.22
D2	26.37	True	26.37	23.57	0.82	1.65	25.22	25.22
D3	26.65	True	26.65	23.85	0.30	1.37	25.22	25.22

Kimley» Horn

Project Name: Foundation Early Learning

Address: Carolina Beach Rd and George Anderson Drive

KHA Project No.: 116824034

Date: 8-Feb-24

Date	: 8-Feb-24				
Land Cover Summary					
_		CN	C-Factor		
Soil Group C	Impervious	98	0.9		
Son Group C	Pervious	74	0.15		
	Woods (Fair)	73	0.25		
Land Cover Summary (Acres)	Impervious	Pervious	Total Area	CN	C-Factor
	EXIS ⁻	TING DRAINA	GE AREAS		
DA1	0.00	4.50	4.50	73	0.25
	PROP	OSED DRAIN	AGE AREAS		
DA1	2.50	2.00	4.50	87	0.57

Kimley	»Horn	Pro KHA Proje	oject Name: ct Number: Date:		on Early Learning 11721100 2/8/2024
	DRAINAGE AREA S	UMMARY			1
DRAINAGE AREA ID	OVERALL AREA (AC)	TC (MIN)	RUNC		1
A2	0.81	5	0.60)	1
PERVIOUS AREA	0.41		0.3		1
IMPERVIOUS AREA	0.40	1	0.9		
A3	0.59	5	0.61		
PERVIOUS AREA	0.29		0.3		
IMPERVIOUS AREA	0.30	1 1	0.9		
C2.2	0.37	5	0.74		
PERVIOUS AREA	0.10		0.3		
IMPERVIOUS AREA	0.27		0.9		
TOTAL AREA	1 77		0.0	_	

Kimley » Horn Project: Foundation Early Learning Existing Drainage Area Time of Concentration

Date: 2/9/2024

Shal Shal Pipe Char Char	verland Flow (TR-55) sallow Conc. 1 sallow Conc. 2 se 1 sannel 1 sannel 2	Length (ft.) 435 0 0 120	9.00 0.00	8.00	Slope (ft./ft.) 0.004 0.000 0.000	P2 (in.) 4.75	Cover Type W	n value 0.400	Diameter (ft.)	Width (ft.)	S. Slopes H:V	Depth (ft.)	Velocity (fps)	Tc (min)	Area (sq. ft.)	Rh	Q (cfs)
Over Shall Shall Shall Pipe Char Char	verland Flow (TR-55) sallow Conc. 1 sallow Conc. 2 se 1 sannel 1 sannel 2	435	31.70	30.00	0.004			0.400	(ft.)							141	
Shal Shal Pipe Char Char	pallow Conc. 1 pallow Conc. 2 pe 1 pannel 1 pannel 2	0	9.00		0.000	4.75	W	0.400									
Shal Pipe Char Char	pe 1 annel 1 annel 2	0		8.00										109.79	Ξ		
Pipe Char Char	pe 1 annel 1 annel 2	0	0.00		0.000	_	U	=					0.00	0.00			
Char	annel 1 annel 2		0.00		0.000		Р	=					0.00	0.00			
Char	annel 2	120		0.00	0.000			0.013	2				0.00	0.00	3.1	0.5	0
			22.50	19.99	0.0209			0.035		25	12	1	5.10	0.39	37.0	0.8	189
Char		0	0.00	0.00	0.000			0.040	= -	1	1	1	0.00	0.00	2.0	0.5	0
	annel 3	0	0.00	0.00	0.000	=		0.050		1	1	1	0.00	0.00	2.0	0.5	0
Tot	otal Length	555			0.008							Total	Tc (mins)	110.18			
													Tc (mins	THE PERSON NAMED IN COLUMN			_
														- P-08			
	Table 1. Overla	and Flow I	Manning ¹						Table 2. Ty	pical Pipe	and Chan	nel Mannir	ng's n values				
escription					Code	n value	4 1	Descriptio	n					n value			
	aces: concrete, asphal	t, packed	soil etc.		С	0.011		Concrete						0.013			
are Soil					В	0.060	4 1	Corrugated		e (CMP)				0.024			
ultivated soils hort grass	iis avg.				S	0.120		Concrete c						0.018			
ense grasses				-	G	0.150		Grass char		-				0.035			
	Bermuda Grass				D	0.240	1 1	Grass char		aintained				0.050			
Voods Heavy (W H	0.400		Rip-rap cha Channels v						0.040			

Pond Report

Stage / Storage Table

Pond Data

Stage (ft)

Pond No. 1 - Lake Jeremy

Culvert / Orifice Structures

Rise (in) = 15.00
Span (in) = 15.00
No. Barrels = 1
Invert El. (ft) = 23.50
Length (ft) = 150.00
Slope (%) = 0.48
N-Value = .013
Orifice Coeff. = 0.60
Multi-Stage = n/a

Elevation (ft)

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2024

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 23.50 ft

 Crest Len (ft)
 = 12.57
 0.00
 0.00
 0.00

 Crest El. (ft)
 = 25.50
 0.00
 0.00
 0.00

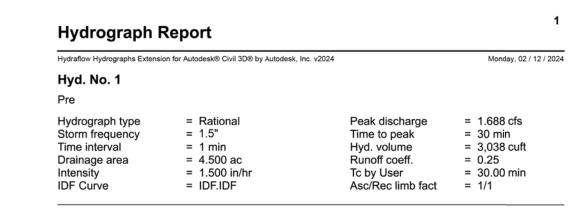
 Weir Coeff.
 = 3.33
 3.33
 3.33
 3.33

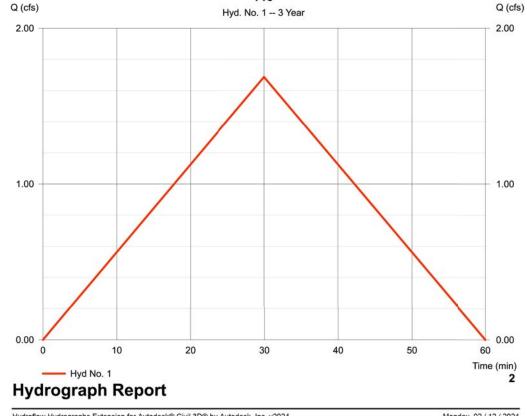
 Weir Type
 = 1
 -- -- --

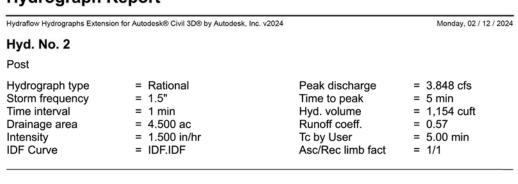
 Multi-Stage
 = Yes
 No
 No
 No

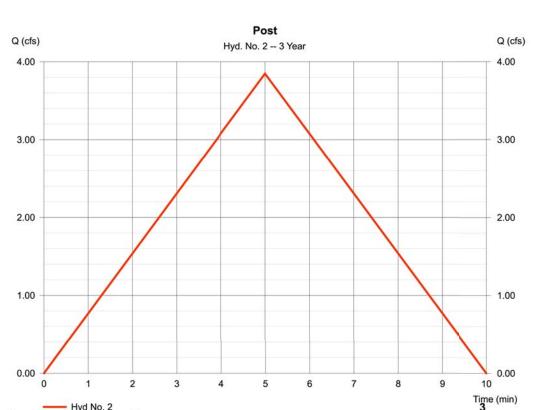
Exfil.(in/hr) = 3.730 (by Contour) TW Elev. (ft) = 23.59

Time of Concentration.xls



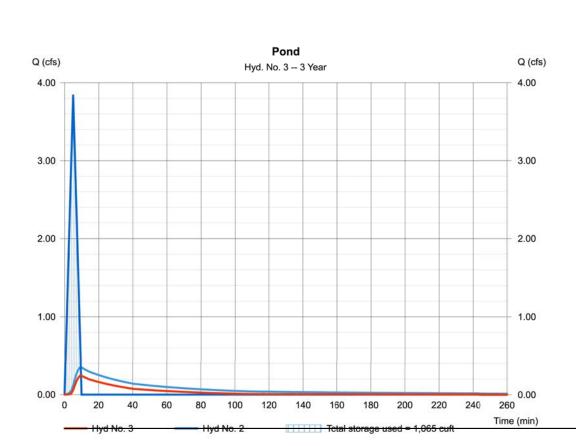






Hydrograph Report									
Hydraflow Hydrographs Extensi	ion for Autodesk® Civil 3D® by Autodesk, Inc	c. v2024	Monday, 02 / 12 / 2024						
Hyd. No. 3									
Pond									
Hydrograph type Storm frequency Time interval Inflow hyd. No. Reservoir name	= Reservoir = 1.5" = 1 min = 2 - Post = Lake Jeremy	Peak discharge Time to peak Hyd. volume Max. Elevation Max. Storage	= 0.242 cfs = 10 min = 503 cuft = 23.82 ft = 1,065 cuft						

Storage Indication method used. Exfiltration extracted from Outflow.

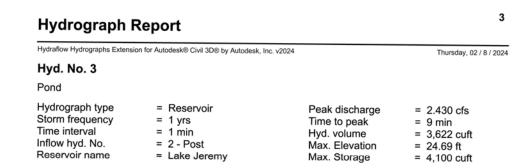


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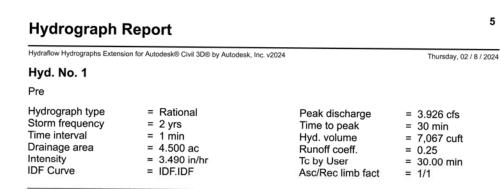
STORMWATER NARRATIVE

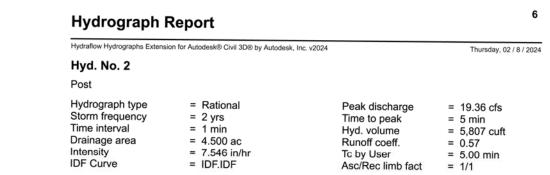
OUNDATION EARL LEARNING

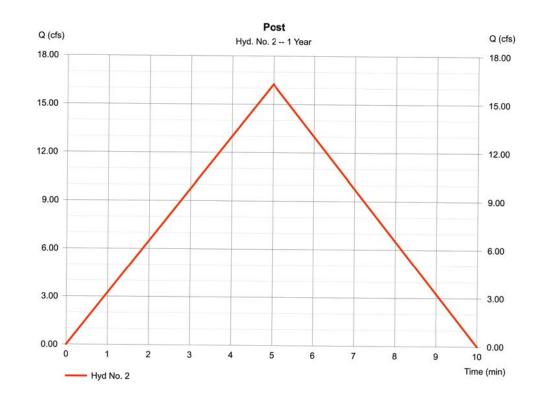


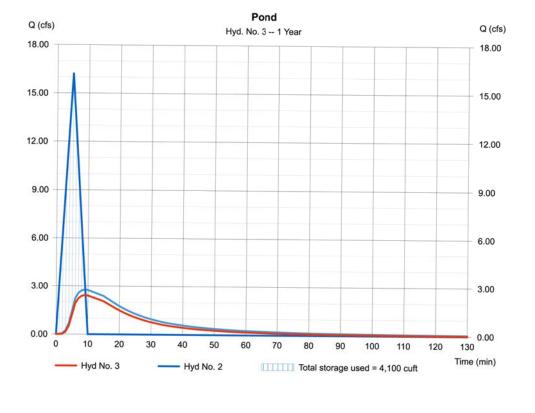
Storage Indication method used. Exfiltration extracted from Outflow.

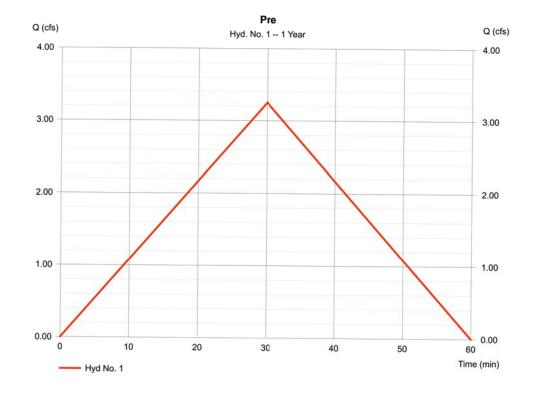
Hydrograph I	Report		1
Hydraflow Hydrographs Extens	on for Autodesk® Civil 3D® by Autodesk,	Inc. v2024	Thursday, 02 / 8 / 2024
Hyd. No. 1			
Pre			
Hydrograph type Storm frequency Time interval Drainage area Intensity IDF Curve	= Rational = 1 yrs = 1 min = 4.500 ac = 2.890 in/hr = IDF.IDF	Peak discharge Time to peak Hyd. volume Runoff coeff. Tc by User Asc/Rec limb fact	= 3.251 cfs = 30 min = 5,852 cuft = 0.25 = 30.00 min = 1/1











Q (cfs) 4.00	Hyd. No	o. 1 2 Year	Q (cf
4.00			4.00
3.00			3.00
2.00			2.00
1.00			1.00
0.00 0 10 Hyd No. 1	20	30 40	50 60 Time (min)

			_		
18.00		/			
15.00					
12.00	/				
9.00					
6.00					
3.00					
0.00 0 1	2 3	4	5 6	7 8	9 1

0

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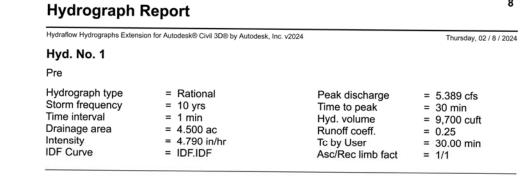
STORMWATER NARRATIVE

OUNDATION EARL LEARNING

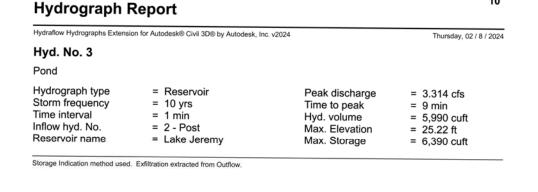
SHEET NUMBER

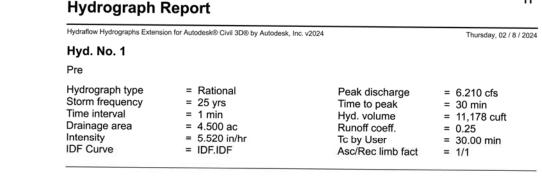
C406

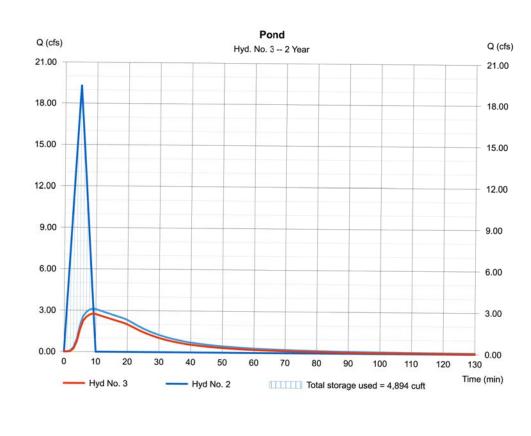
Hydraflow Hydrographs Extensi	Thursday, 02 / 8 /		
Hyd. No. 3			
Pond			
Hydrograph type	= Reservoir	Peak discharge	= 2.757 cfs
Storm frequency	= 2 yrs	Time to peak	= 9 min
Time interval	= 1 min	Hyd. volume	= 4.446 cuft
Inflow hyd. No.	= 2 - Post	Max. Elevation	= 24.87 ft
Reservoir name	Lake Jeremy	Max. Storage	= 4.894 cuft

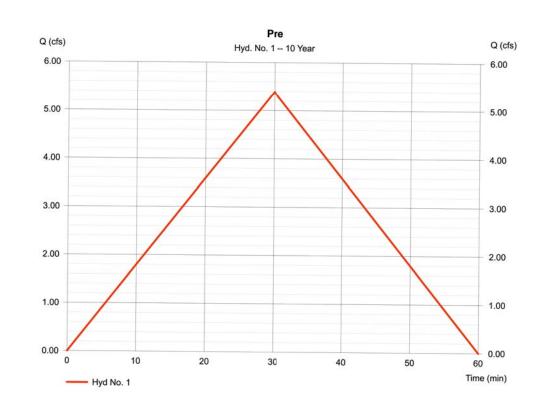


Hydraflow Hydrographs Extensi	on for Autodesk® Civil 3D® by Autodesk,	Inc. v2024	Thursday, 02 / 8 / 2024		
Hyd. No. 2					
Post					
Hydrograph type	= Rational	Peak discharge	= 25.12 cfs		
Storm frequency	= 10 yrs	Time to peak	= 5 min		
Time interval	= 1 min	Hyd. volume	= 7,535 cuft		
Drainage area	= 4.500 ac	Runoff coeff.	= 0.57		
Intensity	= 9.792 in/hr	Tc by User	= 5.00 min		
IDF Curve	= IDF.IDF	Asc/Rec limb fact	= 1/1		







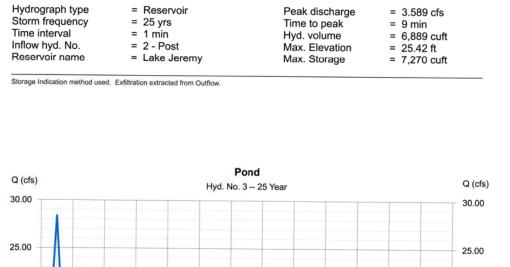


28.00			28
24.00			24
20.00			20
16.00	/		16
12.00			12
8.00			8.0
4.00			4.0
0.00			0.0

28.00													
24.00													
20.00													
16.00													
12.00													
8.00													
4.00													
4.00													7
0.00				_									
0.00	10	20	30	40	50	60	70	80	90	100	110	120	130

Q (cfs)		Hyd.	Pre No. 1 25 Year		
7.00					
6.00			\wedge		
5.00					
4.00					
3.00		/			
2.00					
1.00					1
0.00	10	20	30	40 50	
—— Ну	d No. 1				Tir

Hydraflow Hydrographs Extens	ion for Autodesk® Civil 3D® by Autodesk, I	nc. v2024	Thursday, 02 / 8 / 2
Hyd. No. 2			
Post			
Hydrograph type Storm frequency Time interval Drainage area Intensity	= Rational = 25 yrs = 1 min = 4.500 ac = 11.092 in/hr	Peak discharge Time to peak Hyd. volume Runoff coeff. Tc by User	= 28.45 cfs = 5 min = 8,536 cuft = 0.57 = 5.00 min



Hydrograph Report

Hyd. No. 3

25.00

20.00

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2024

(cfs)	Pond Hyd. No. 3 25 Year	Q (cfs)
0.00		30.00
5.00		25.00
0.00		20.00
		20.00
5.00		15.00
.00		10.00
5.00		5.00

Hydraflow Hydrographs Extens	Thursday, 02 / 8 / 2024		
Hyd. No. 1			
Pre			
Hydrograph type	= Rational	Peak discharge	= 6.840 cfs
Storm frequency	= 100 yrs	Time to peak	= 30 min
Time interval	= 1 min	Hyd. volume	= 12.312 cuft
Drainage area	= 4.500 ac	Runoff coeff.	= 0.25
Intensity	= 6.080 in/hr	Tc by User	= 30.00 min
IDF Curve	= IDF.IDF	Asc/Rec limb fact	= 1/1

7.00 —

6.00

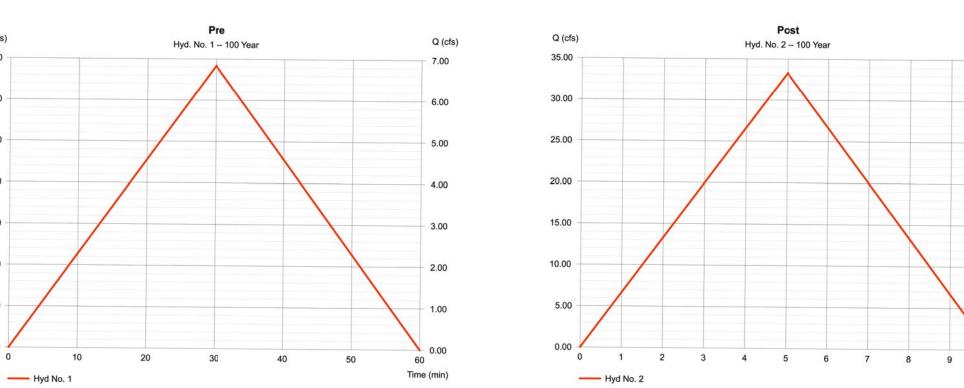
5.00

4.00

3.00

2.00

1.00 -



Hydrograph Report

Hydrograph type Storm frequency Time interval

Drainage area Intensity IDF Curve

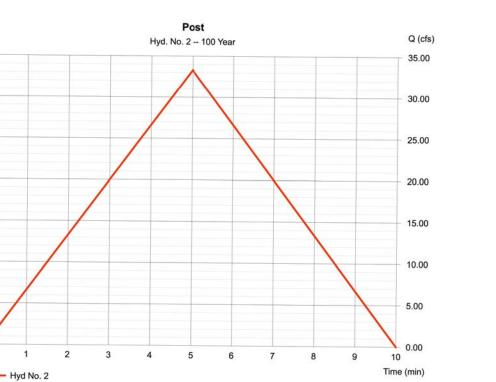
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2024

= Rational = 100 yrs = 1 min

= IDF.IDF

= 4.500 ac = 12.984 in/hr

Hydraflow Hydrographs Extens	Thursday, 02 / 8 / 2024		
Hyd. No. 3			
Pond			
Hydrograph type Storm frequency Time interval Inflow hyd. No. Reservoir name	= Reservoir = 100 yrs = 1 min = 2 - Post = Lake Jeremy	Peak discharge Time to peak Hyd. volume Max. Elevation Max. Storage	= 4.966 cfs = 9 min = 8,218 cuft = 25.66 ft = 8,496 cuft



Time to peak
Hyd. volume
Runoff coeff.
To by User

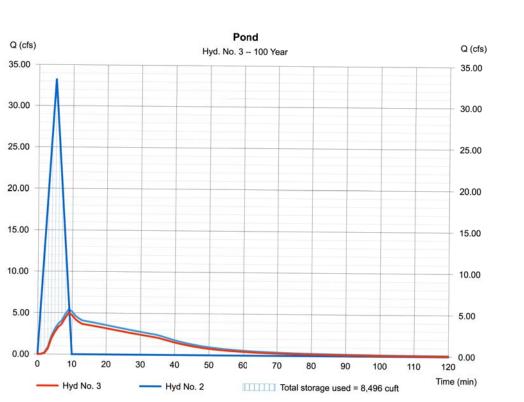
Asc/Rec limb fact = 1/1

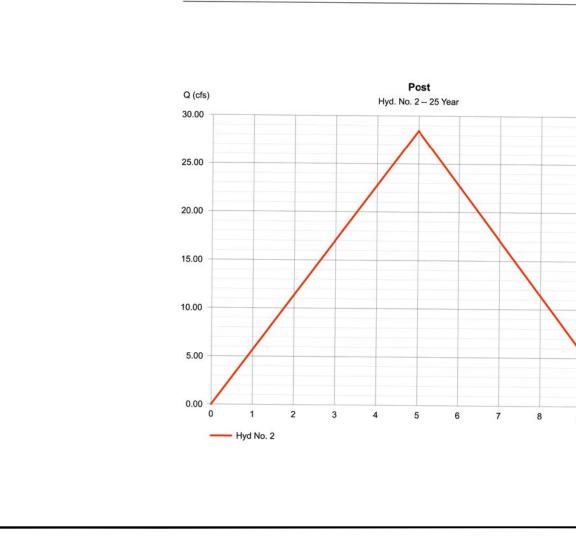
= 33.30 cfs

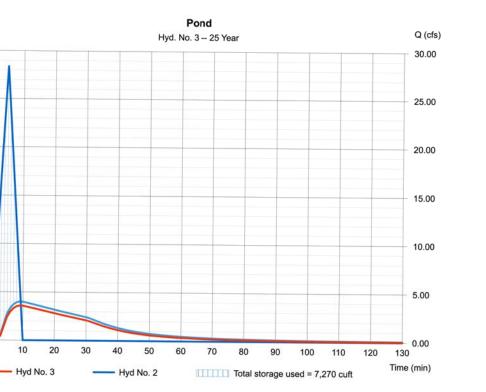
= 5 min = 9,991 cuft

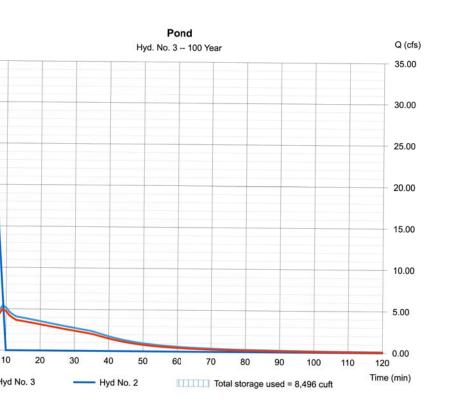
= 0.57

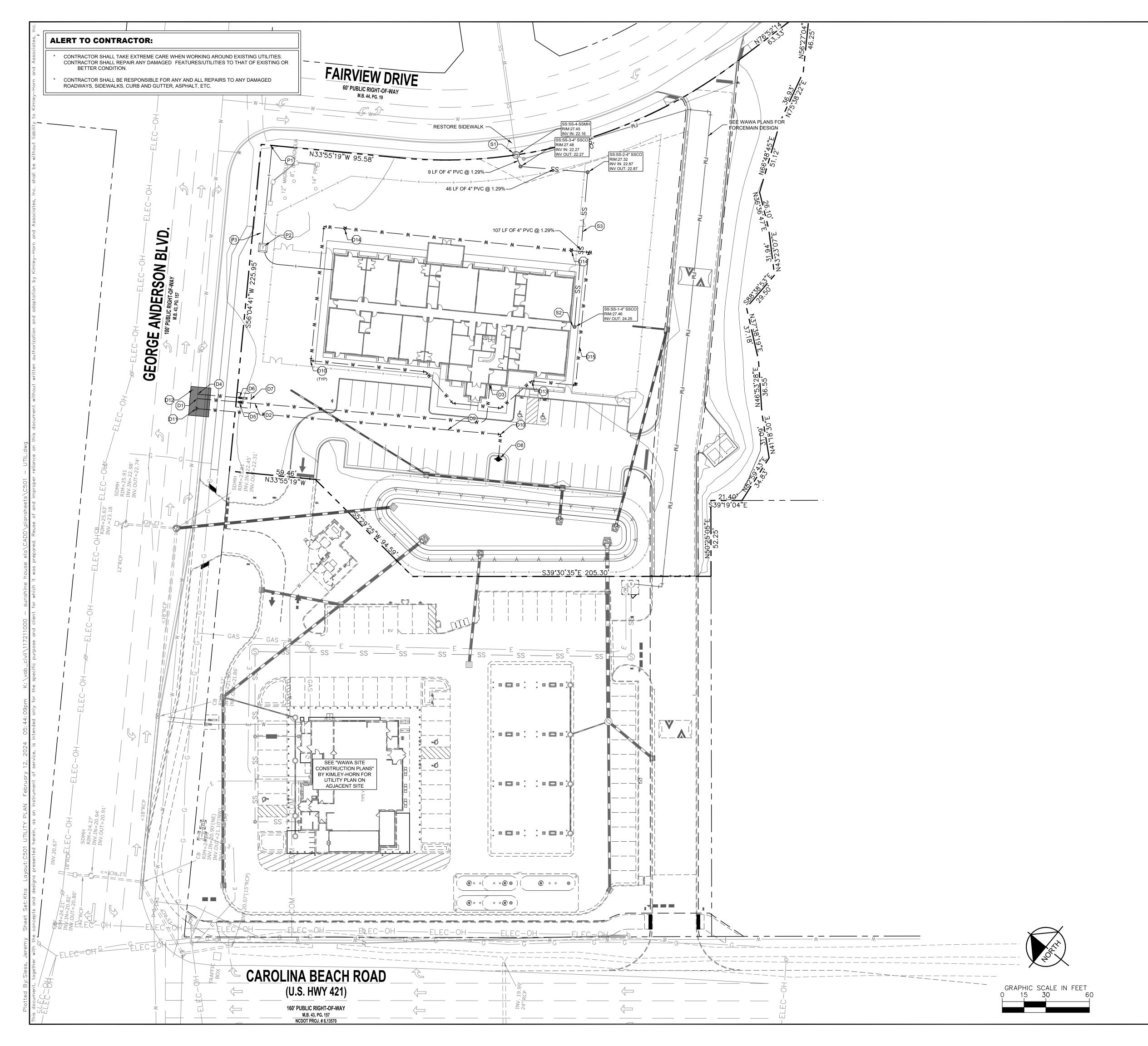
= 5.00 min













- 1. THE DEPTH AND LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY UPON DISCOVERY.
- 2. RPZ BACKFLOW PREVENTERS FOR DOMESTIC SERVICE LINE SHALL BE PROVIDED WITHIN
- BUILDING MECHANICAL ROOM. 3. ALL NON-METALLIC PIPE SHALL BE INSTALLED WITH TRACER WIRE.
- 4. TRACER WIRE SHALL BE INSTALLED ALONG THE ENTIRE LENGTH OF THE PROPOSED SANITARY SEWER LATERAL.
- 5. ALL SANITARY SEWER CLEANOUTS ARE TO BE TRAFFIC RATED.
- 6. ALL NEW UTILITY SERVICES FOR ELECTRICITY, TELEPHONE, AND CABLE SHALL BE INSTALLED
- UNDERGROUND. NO NEW ABOVE GROUND UTILITIES ARE PERMITTED. 7. ADJUST ALL APPURTENANCES TO PROPOSED GRADE.
- 8. THE EXISTING UTILITIES ON THIS PLAN ARE APPROXIMATE ONLY, AND ARE NOT ACCURATE FOR CONSTRUCTION PURPOSES. FOR FIELD LOCATIONS CALL 811 WITH THREE (3) WORKING DAYS MINIMUM NOTICE.
- 9. A MINIMUM OF 2 FT OF SUITABLE FILL IS REQUIRED BETWEEN ANY ROCK/CONCRETE/ASPHALT AND THE GAS SERVICE LINE.
- 10. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR UTILITY CONNECTIONS OUTSIDE THE BUILDING.
- 11. SEE "GENERAL NOTES" SHEET FOR SITE GENERAL NOTES AND ZONING NOTES.
- 12. REFER TO GENERAL NOTES SHEET FOR GENERAL, WATER UTILITY, AND SANITARY SEWER, NOTES, MATERIALS, AND REQUIREMENTS.
- 13. SEE "EXISTING CONDITIONS" FOR COMPLETE BOUNDARY DESCRIPTION, ADJOINING
- PROPERTIES, ZONING AND USE, AND EXISTING UTILITY LOCATIONS AND SIZES. 14. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES ROUNDED
- TO THE NEAREST FOOT.
- 15. CONTRACTOR TO REFER TO UTILITY DETAIL SHEET FOR UTILITY BEDDING DETAIL.

CONTRACTOR SHALL REFER TO ARCH / MEP PLANS FOR EXACT UTILITY ENTRANCE LOCATIONS.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED

CAUTION!! CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION

UTILITY KEYNOTE LEGEND

SANITARY SEWER KEYNOTES

CONTRACTOR TO COORDINATE SANITARY SEWER MANHOLE CONNECTION WITH THE WAWA CONTRACTOR.

4" PVC SANITARY SERVICE. INV OUT FROM BUILDING AT MINIMUM 3.25' BELOW FFE. PRIVATE 4" SANITARY SEWER LATERAL AT MINIMUM 1.0% SLOPE. COORDINATE WITH

WAWA#6632 PRIVATE SANITARY SEWER EASEMENT

POWER - COMMUNICATION (TELEPHONE, FIBER OPTIC, DATA, TV) KEYNOTES

(P1) CONTRACTOR TO COORDINATE UTILITY CONNECTION WITH DUKE ENERGY.

SECONDARY ELECTRIC SERVICE, REFER TO MEP PLAN FOR SIZE AND NUMBER OF

P3 | ELECTRIC TRANSFORMER COMPANY STANDARDS. ELECTRIC TRANSFORMER PAD LOCATION SIZE AND CONNECTIONS PER POWER

WATER LINE DISTRIBUTION KEYNOTES

ARCH / MEP PLANS.

DOMESTIC CONNECTION TO EXISTING WATER MAIN WITH CORP. STOP BY CONTRACTOR. SEE DETAIL SHEET.

2" BLACK POLY PIPE DOMESTIC WATER SERVICE. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE SUCH AS BACKFLOW PREVENTION DEVICES, GATE VALVES, BENDS AND FITTINGS, ETC., WHICH MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH THE AHJ.

2" DOMESTIC SERIVE ENTRY LOCATION INTO BUILDING. FIRE AND DOMESTIC

BACKFLOW DEVICES LOCATED INSIDE BUILDING. REFER ARCH/MEP PLANS.

IRRIGATION CONNECTION WITH 1" CORPORATION STOP. SEE DETAIL SHEET.

D5 1.5" DOMESTIC WATER METER. SEE DETAIL SHEET.

10' X 10' WATER EASEMENT

D8 FIRE HYDRANT ASSEMBLY

6" PVC FIRE LINE

010 6" 90° BEND

6" TAPPING TEE (D12) STREET REPAIR REQUIRED

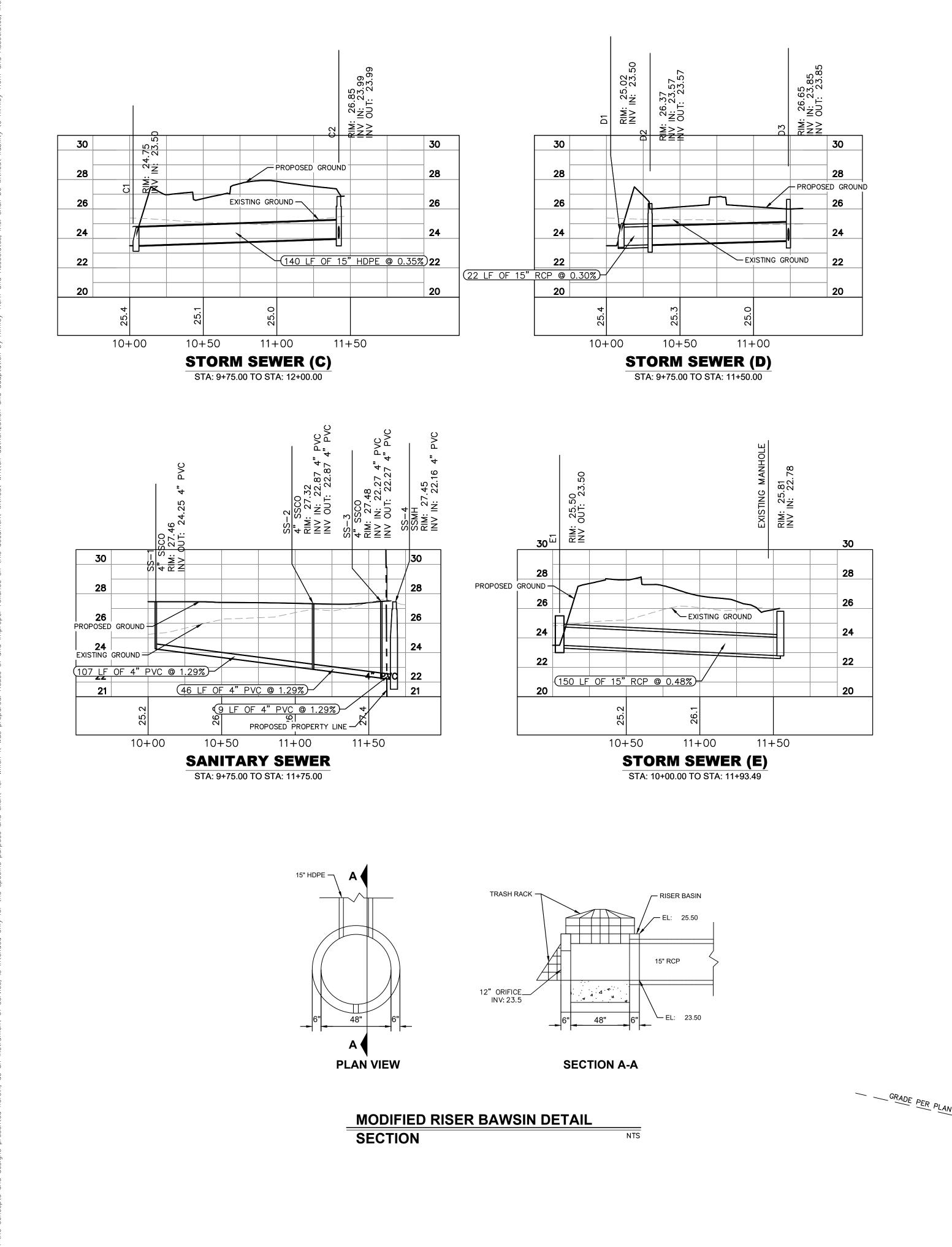
©13 6" 45° BEND

FDC - FIRE DEPARTMENT CONNECTION

015 6" DRY WELL

Know what's below

0

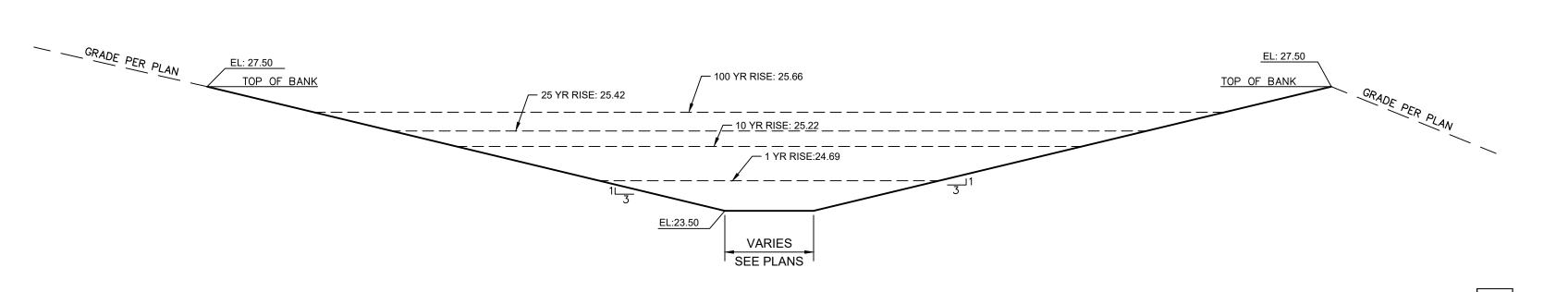


		STORM DRAIN STRUCTURE TAE	BLE
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
C1	15" FES INV IN: 23.50	FROM C2, 15" HDPE INV IN: 23.50 @ 0.35%	
C2	CITY STD CURB INLET RIM: 26.85 INV IN: 23.99 INV OUT: 23.99	FROM PIPE STUB 2, 10" PVC INV IN: 23.99 @ 0.35%	TO C1, 15" HDPE INV OUT: 23.99 @ 0.35%
D1	15" FES INV IN: 23.50	FROM D2, 15" RCP INV IN: 23.50 @ 0.30%	
D2	CITY STD CURB INLET RIM: 26.37 INV IN: 23.57 INV OUT: 23.57	FROM D3, 15" HDPE INV IN: 23.57 @ 0.30%	TO D1, 15" RCP INV OUT: 23.57 @ 0.30%
D3	CITY STD CURB INLET RIM: 26.65 INV IN: 23.85 INV OUT: 23.85	FROM PIPE STUB 1, 10" HDPE INV IN: 23.85 @ 0.32%	TO D2, 15" HDPE INV OUT: 23.85 @ 0.30%
E1	RISER BASIN 12" ORF INV: 23.5 RIM: 25.50 INV OUT: 23.50		TO EXISTING MANHOLE, 15" RCP INV OUT: 23.50 @ 0.48%
EXISTING MANHOLE	MH RIM: 25.81 INV IN: 22.78	FROM E1, 15" RCP INV IN: 22.78 @ 0.48%	
PIPE STUB 1	NV OUT: 24.20		TO D3, 10" HDPE INV OUT: 24.20 @ 0.32%
PIPE STUB 2	OUT RIM: 24.97 INV OUT: 24.07		TO C2, 10" PVC INV OUT: 24.07 @ 0.35%

	STORM DRAIN PIPE TABLE								
START STRUCTURE	END STRUCTURE	SIZE	LENGTH	SLOPE	MATERIAL				
C2	C1	15"	140'	0.35%	HDPE				
D2	D1	15"	22'	0.30%	RCP				
D3	D2	15"	94'	0.30%	HDPE				
E1	EXISTING MANHOLE	15"	150'	0.48%	RCP				
D3	PIPE STUB 1	10"	110'	0.32%	HDPE				
C2	PIPE STUB 2	10"	24'	0.35%	PVC				

SANITARY SEWER STRUCTURE TABLE						
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT			
SS-1	4" SSCO RIM: 27.46 INV OUT: 24.25		TO SS-2, 4" PVC INV OUT: 24.25 @ 1.29%			
SS-2	4" SSCO RIM: 27.32 INV IN: 22.87 INV OUT: 22.87	FROM SS-1, 4" PVC INV IN: 22.87 @ 1.29%	TO SS-3, 4" PVC INV OUT: 22.87 @ 1.29%			
SS-3	4" SSCO RIM: 27.48 INV IN: 22.27 INV OUT: 22.27	FROM SS-2, 4" PVC INV IN: 22.27 @ 1.29%	TO SS-4, 4" PVC INV OUT: 22.27 @ 1.29%			
SS-4	SSMH RIM: 27.45 INV IN: 22.16	FROM SS-3, 4" PVC INV IN: 22.16 @ 1.29%				

SANITARY SEWER PIPE TABLE							
START STRUCTURE	END STRUCTURE	SIZE	LENGTH	SLOPE	MATERIAL		
SS-1	SS-2	4"	107'	1.29%	PVC		
SS-2	SS-3	4"	46'	1.29%	PVC		
SS-3	SS-4	4"	9'	1.29%	PVC		



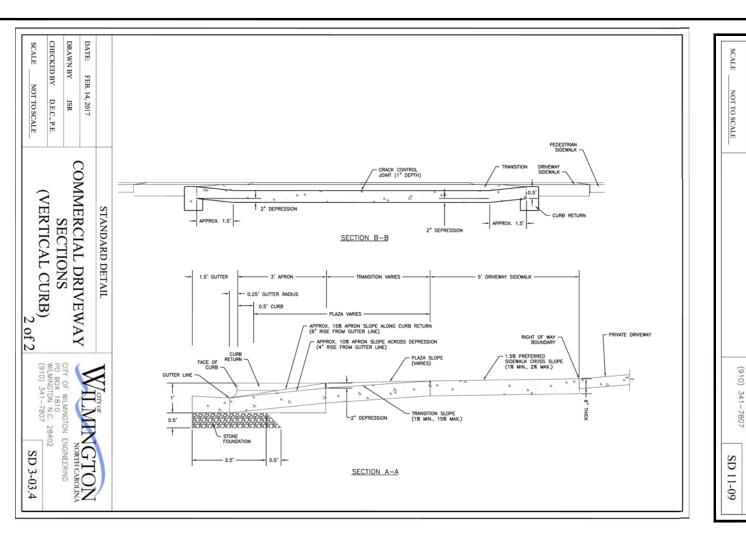
DRY POND DESIGN STORM RISE SECTION

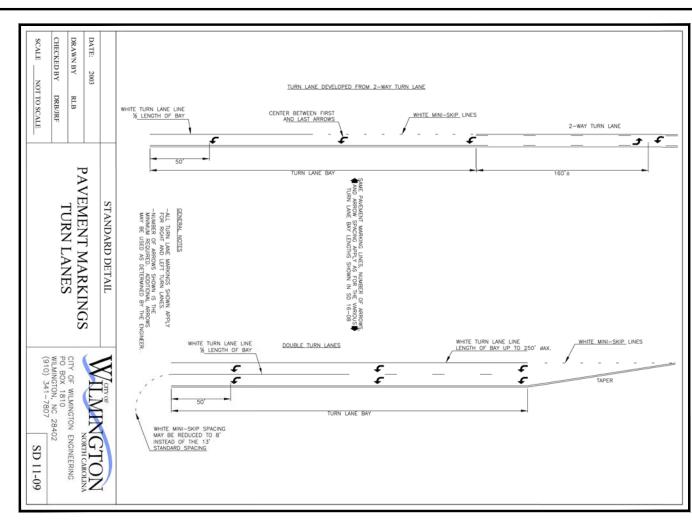
C502

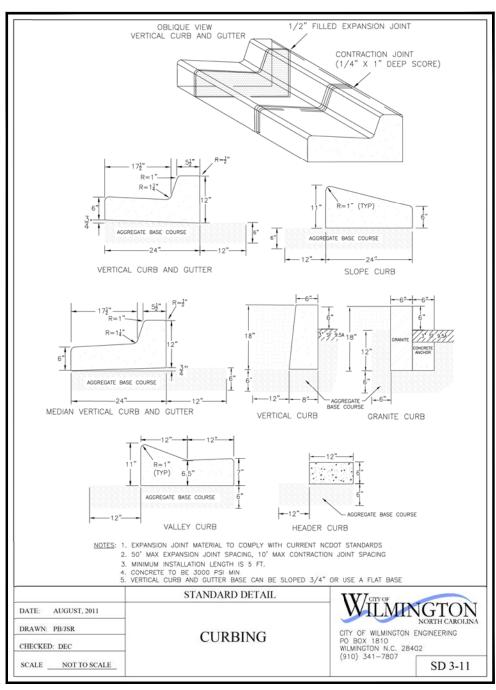
PROFILES

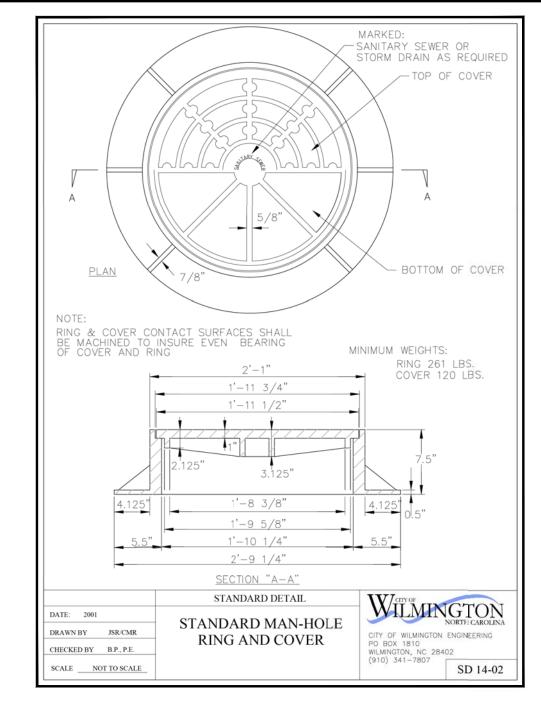
Horn

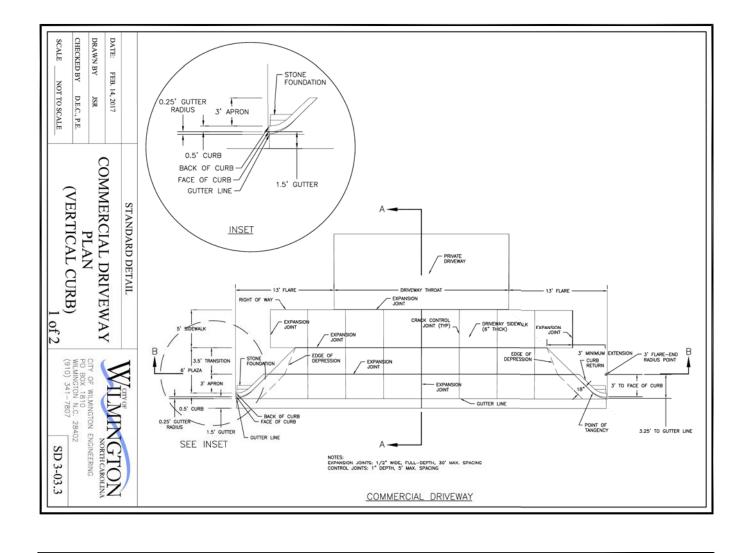
Kimley











NOTES

1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE

TRUCKS.

2. LOCATE ENTRANCES TO PROVIDE FOR UTILIZATION
BY ALL CONSTRUCTION VEHICLES.

3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT
TRACKING OR DIRECT FLOW OF MUD ONTO STREETS.
PERIODIC TOPPRESSING WITH STONE WILL BE NECESSARY.

4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE
CLEANED UP IMMEDIATELY.

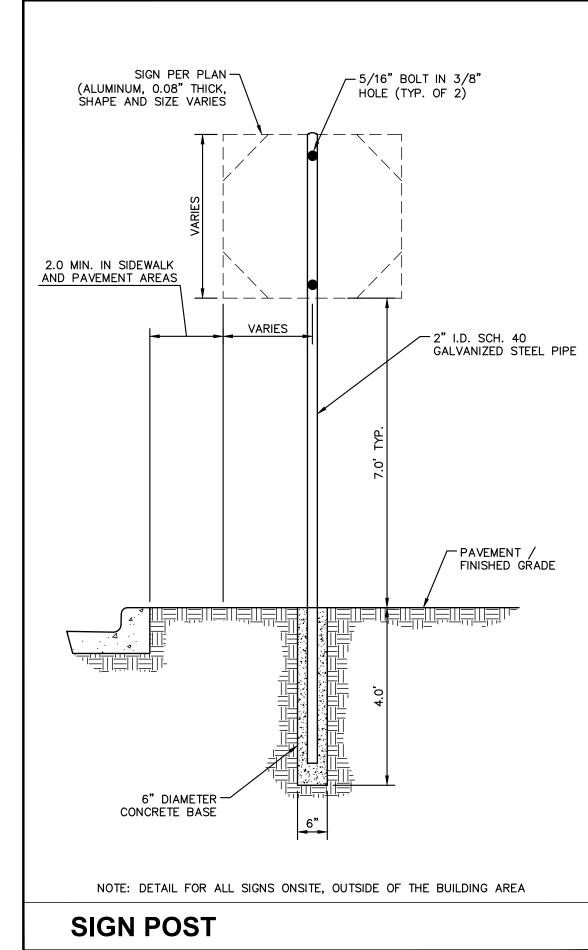
5. LOCATE GRAVEL CONSTRUCTION ENTRANCE AT ALL POINTS OF
INGRESS AND EGRESS UNTIL SITE IS STABILIZED. PROVIDE
FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE.

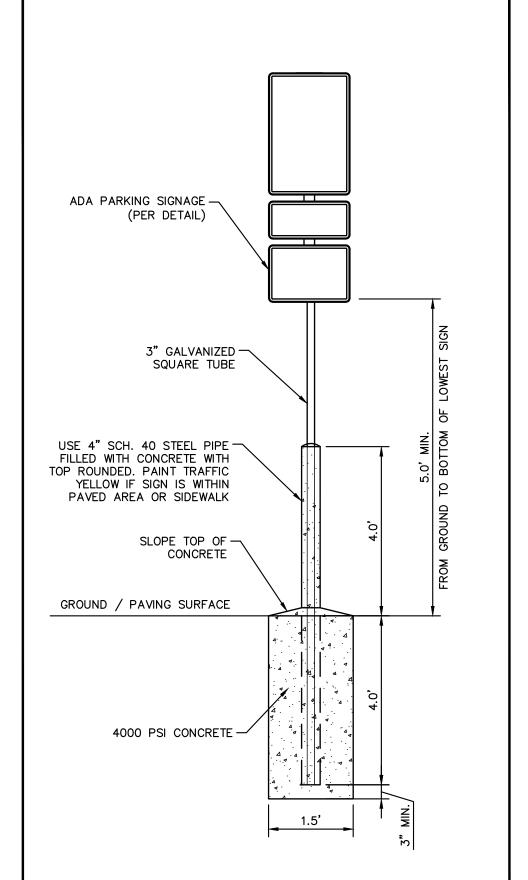
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO
BE DETERMINED BY THE ENGINEER.

7. USE CLASS 'A' STONE OR OTHER COARSE AGGREGATE APPROVED
BY THE ENGINEER.

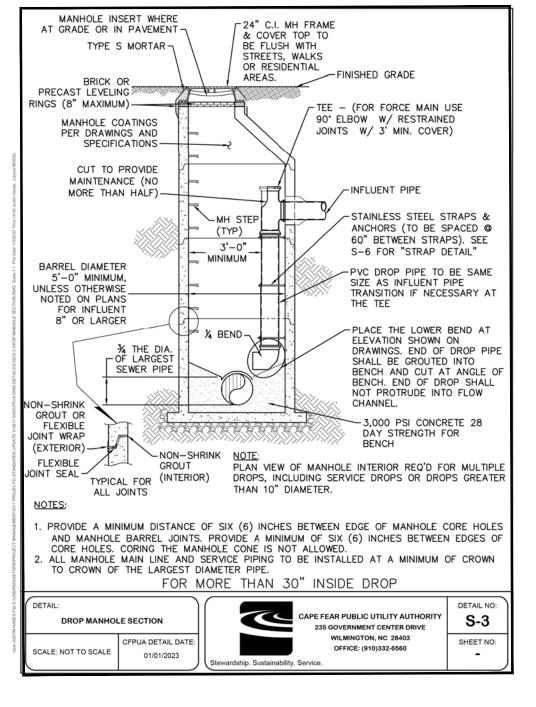
8. INSTALL CONSTRUCTION ENTRANCES IN A WAY TO PREVENT VEHICLES
FROM BYPASSING CONSTRUCTION ENTRANCE LEAVING PROJECT SITE.

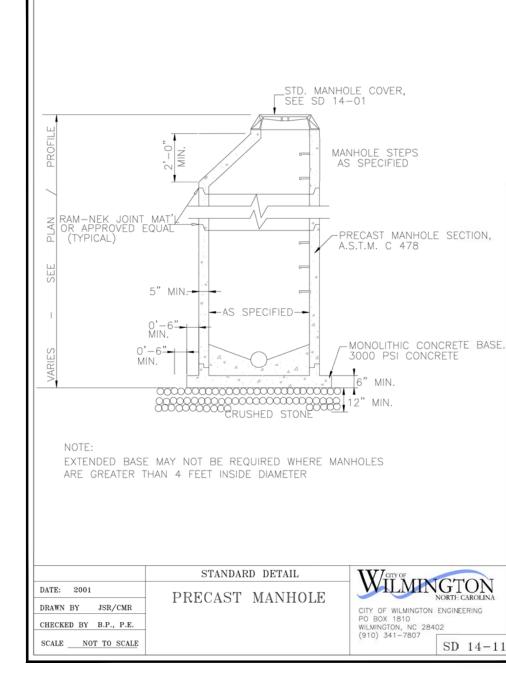
NOTE: PLACE GEOTEXTILE FOR DRAINAGE BENEATH STONE

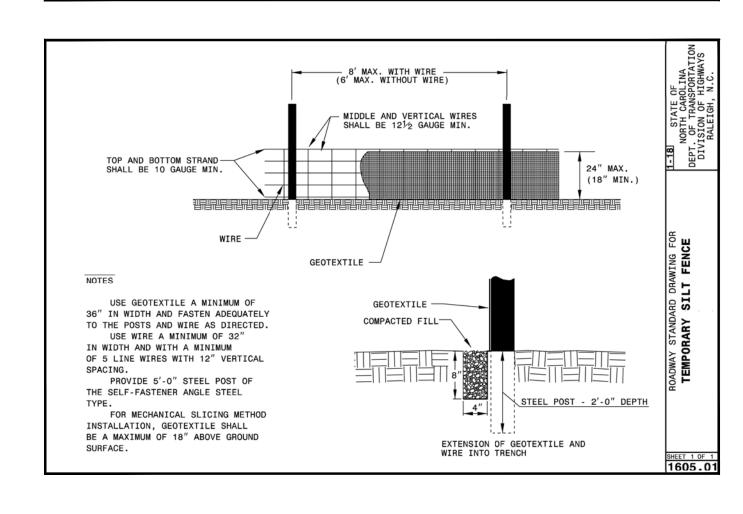


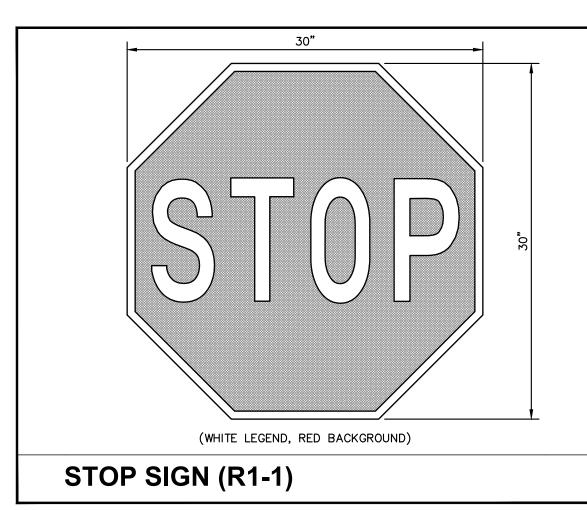


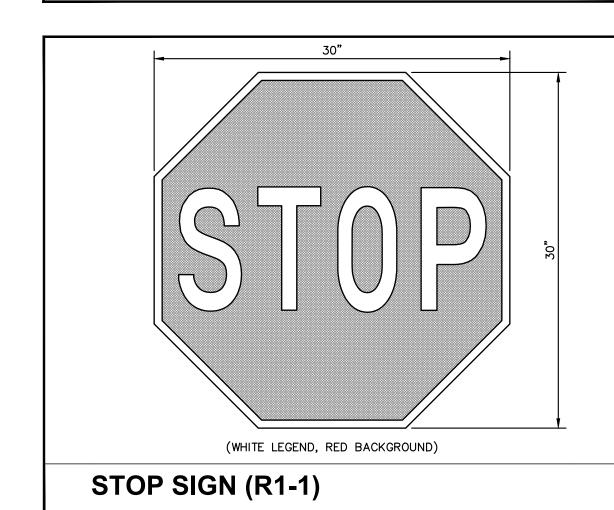
ADA PARKING SIGN POST

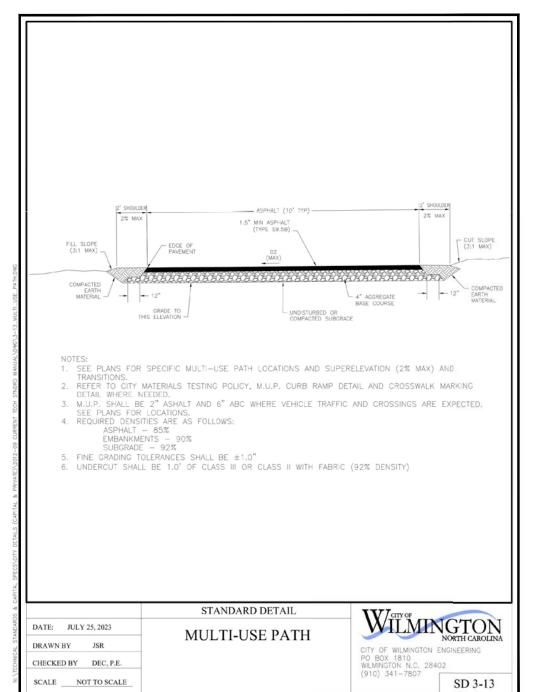


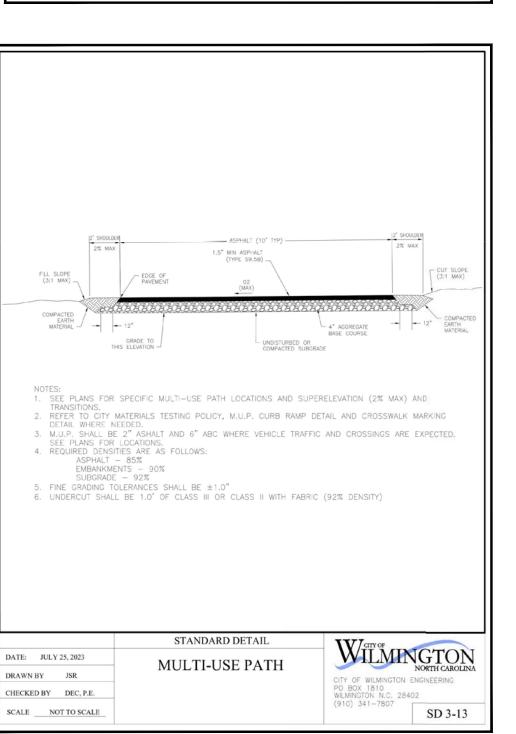










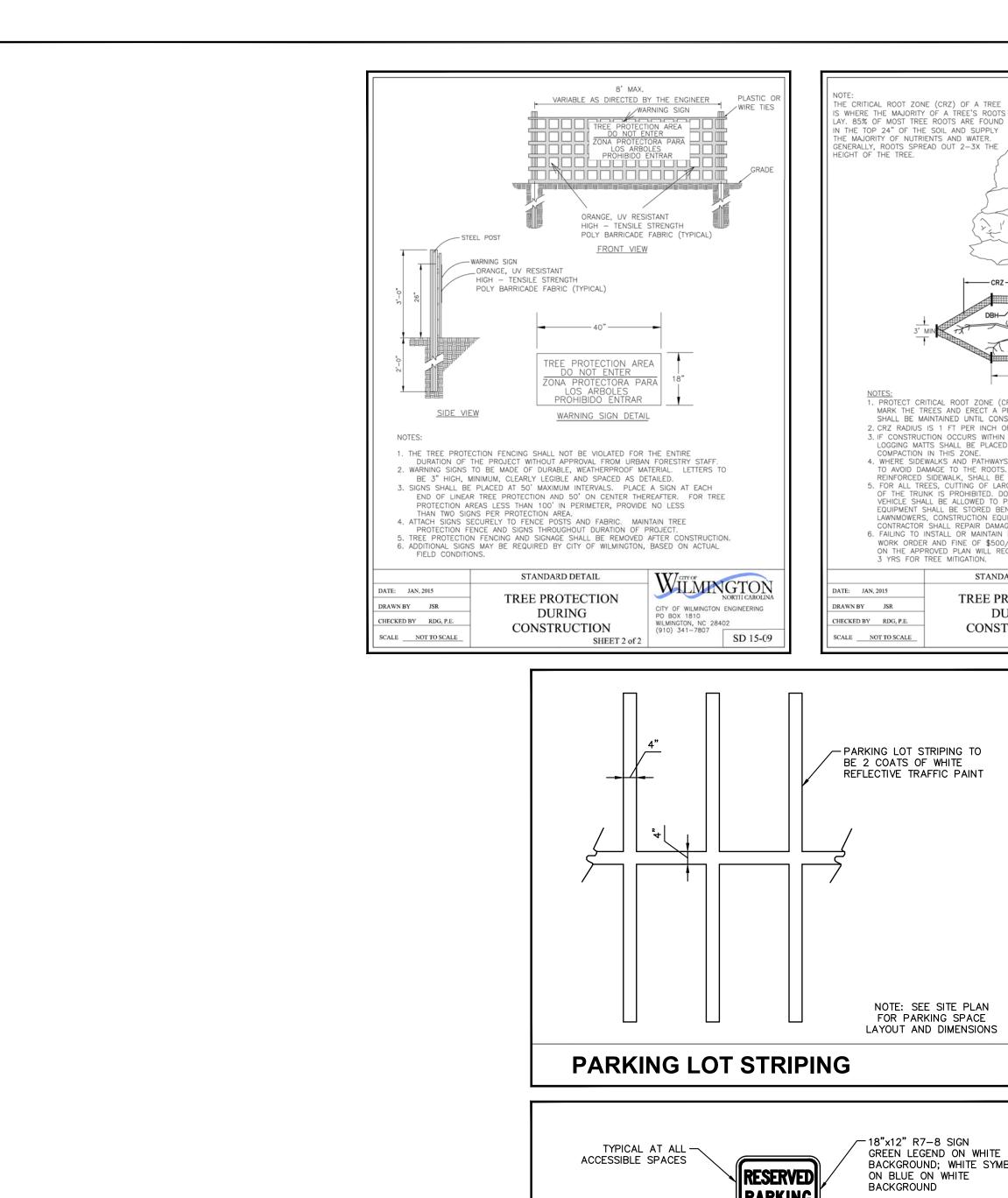


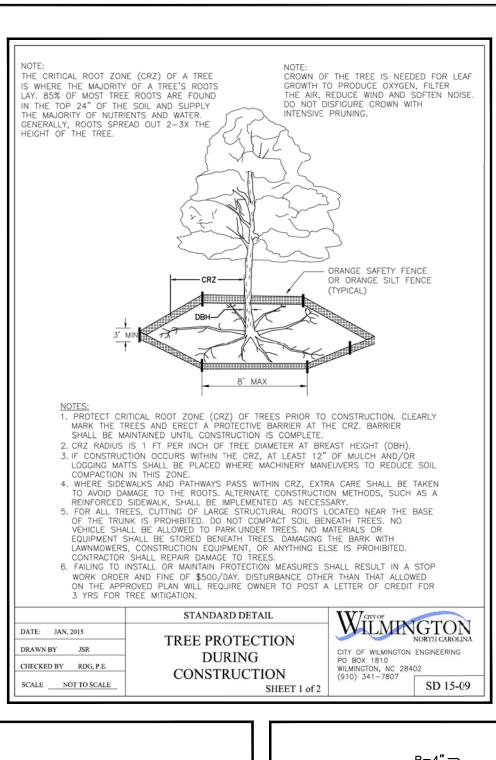
CLC OUNDATION EA X

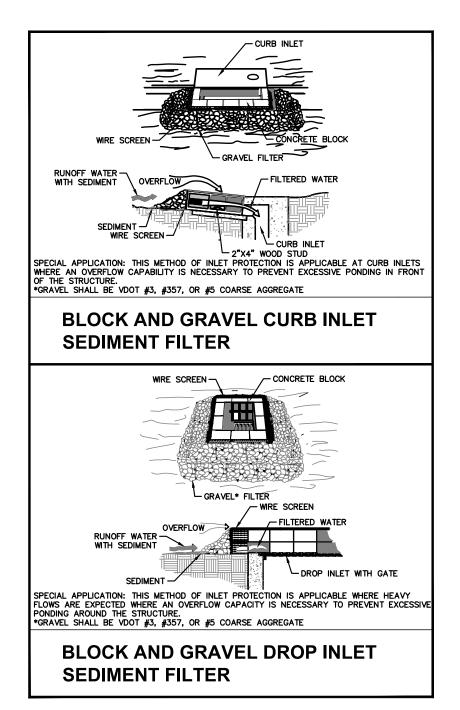
TRUC

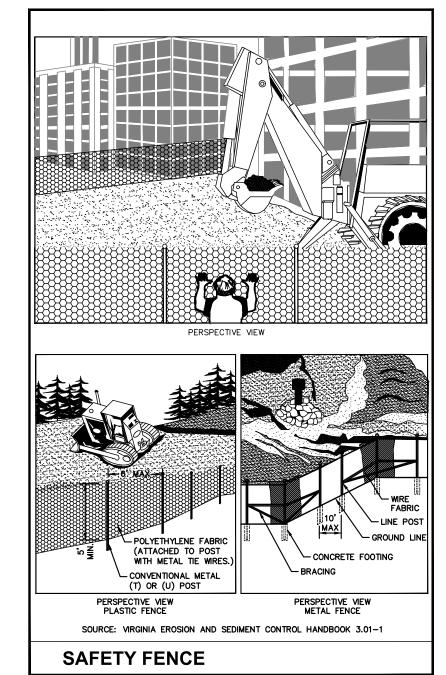
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U









SECTION - AA

FRAME, GRATE & HOOD ASS'Y

NOTE: USE TYPE "E","F",& "G" GRATE UNLESS

CATCH BASIN CASTING

FOR 24" HOOD AND GRATE

CITY OF WILMINGTON ENGINEERING PO BOX 1810
WILMINGTON, NC 28402
(910) 341–7807

SD 2-21

OTHERWISE INDICATED

DRAWN BY JSR/CMR

CHECKED BY B.P., P.E.

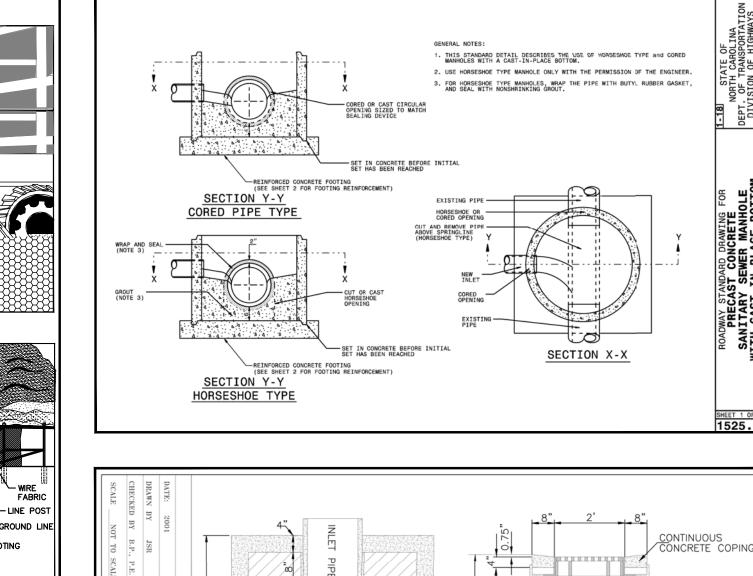
SCALE NOT TO SCALE

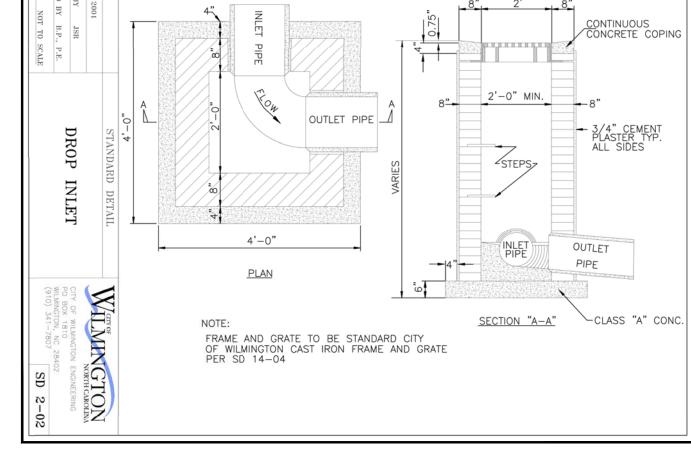
1" T PP

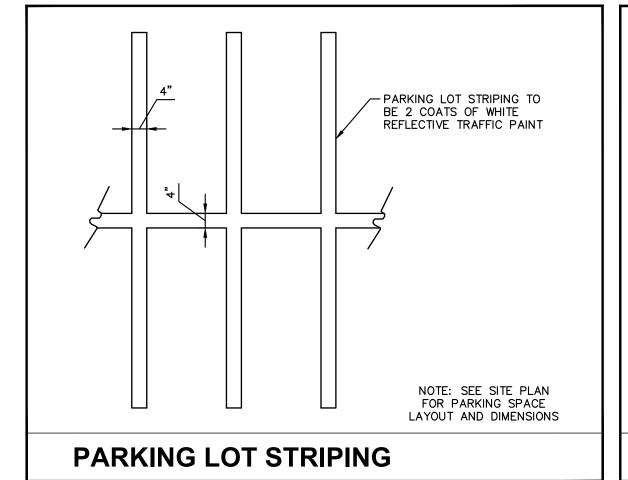
SECTION - NN

WILMINGTON NORTH CAROLINA

SD 2-21







NOTE: SIGNS DENOTED HERE ARE TO BE PER MUTCD SPECIFICATIONS.

ADA PARKING SIGNAGE

-12"x6" R7-8P SIGN GREEN LEGEND ON WHITE BACKGROUND

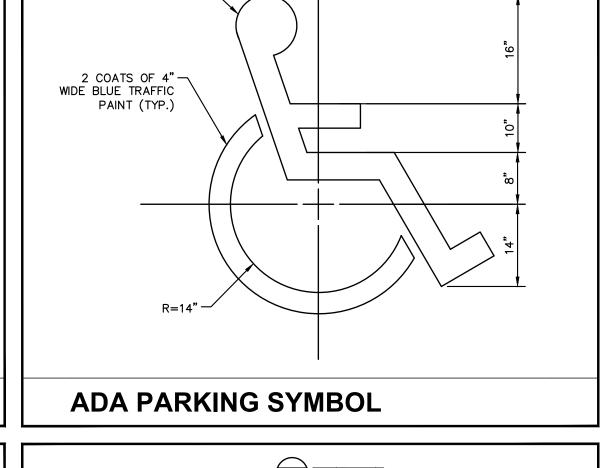
ADA SIGN POST -

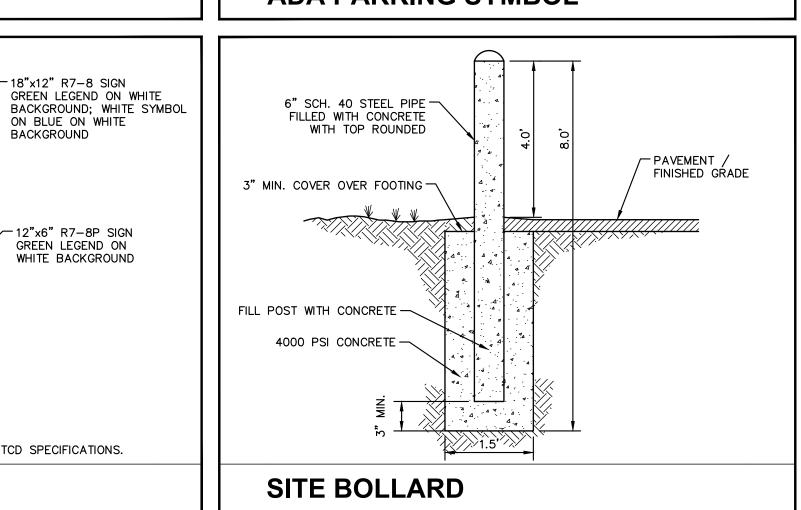
TYPICAL AT ALL VAN — ACCESSIBLE SPACES

12"x9" PENALTY SIGN — (AS REQUIRED BY STATE

OR LOCAL CODE)

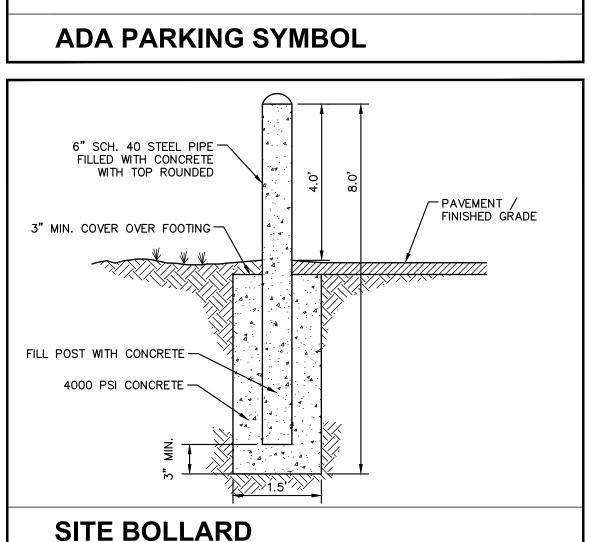
(PER DETAIL)

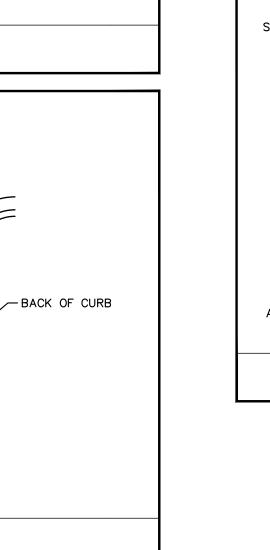


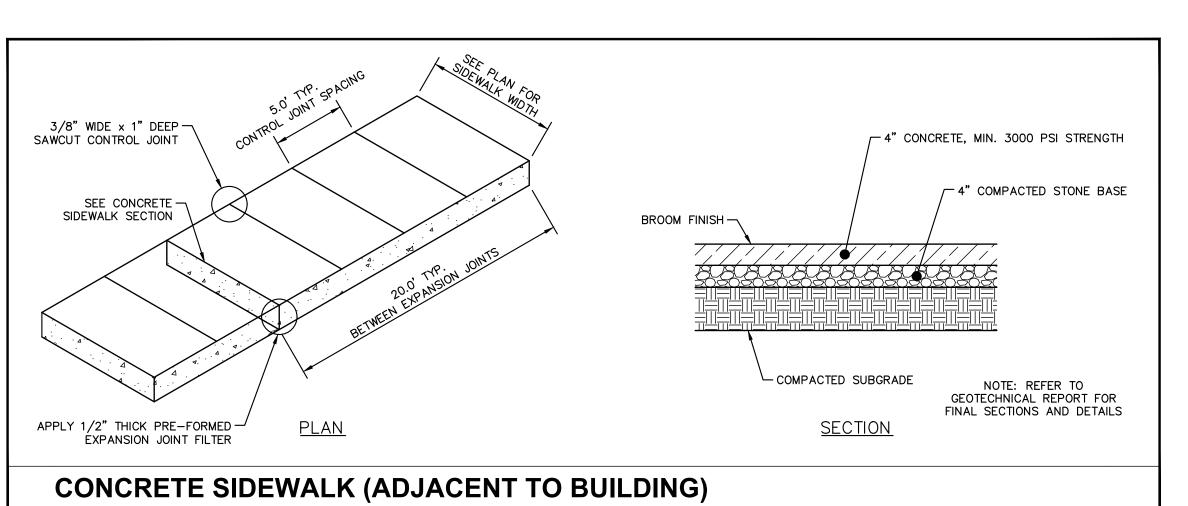


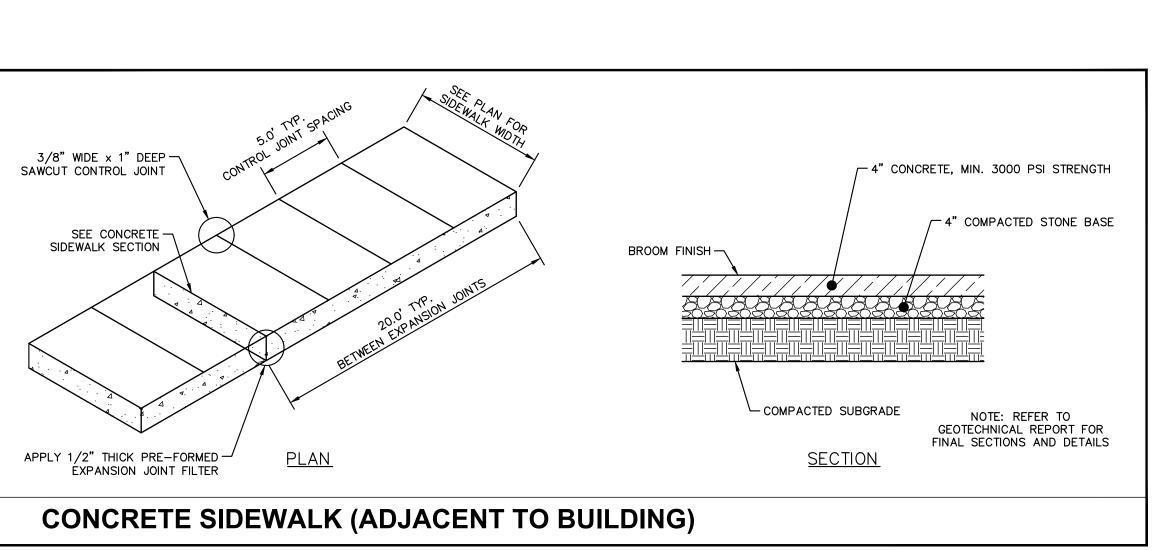
STRIPE WITH 2 COATS OF WHITE — REFLECTIVE TRAFFIC PAINT

STOP BAR STRIPING







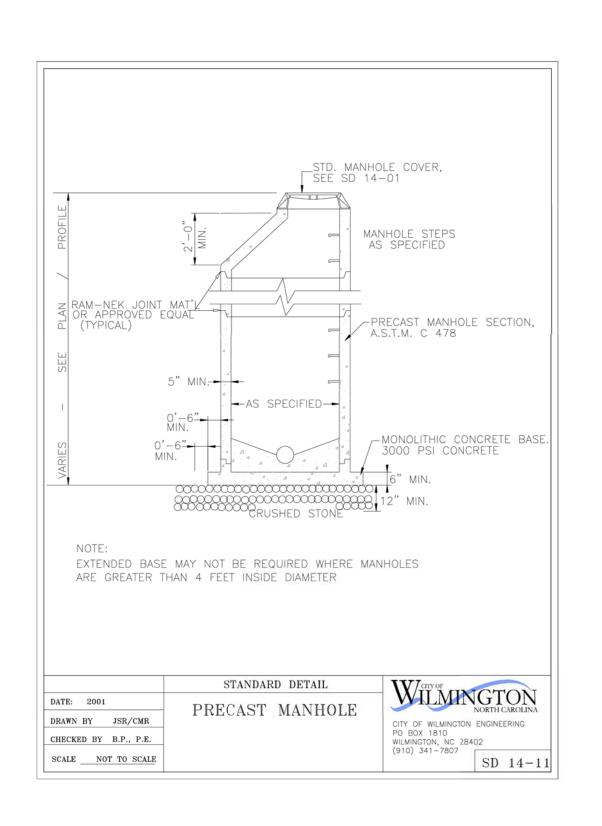


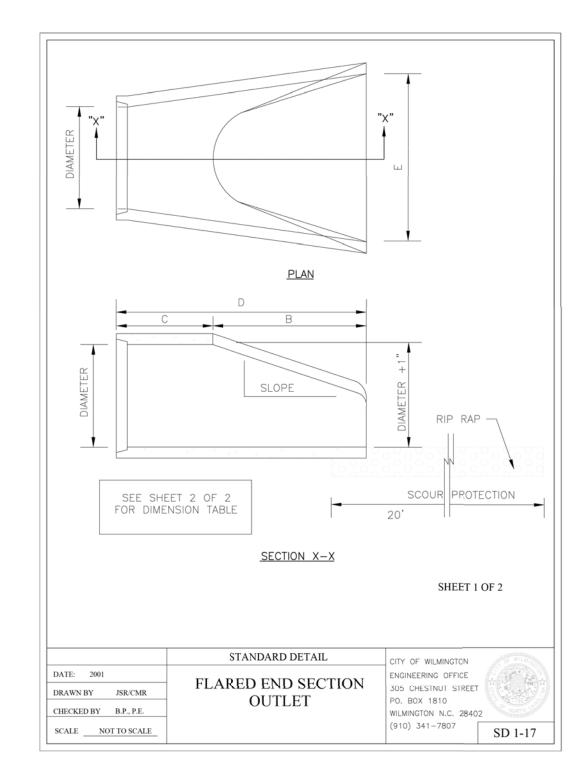
EARL ATION E/ FOUNDA⁻ LEA

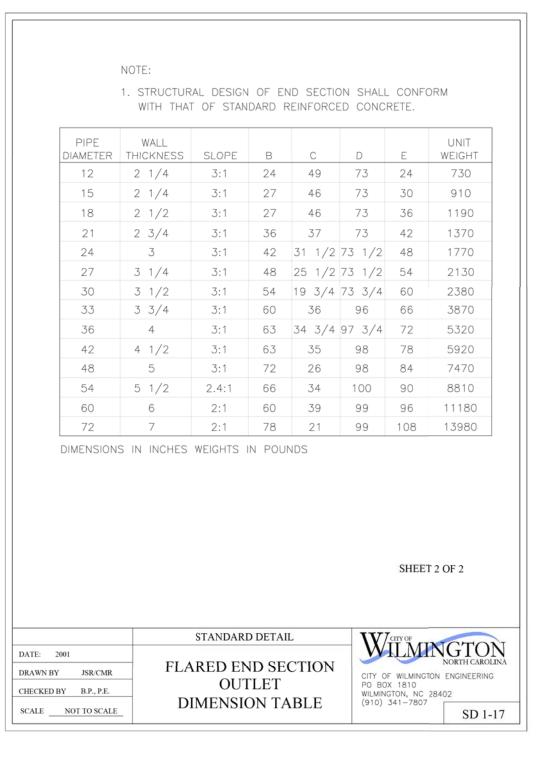
CONSTRUCTION DETAILS

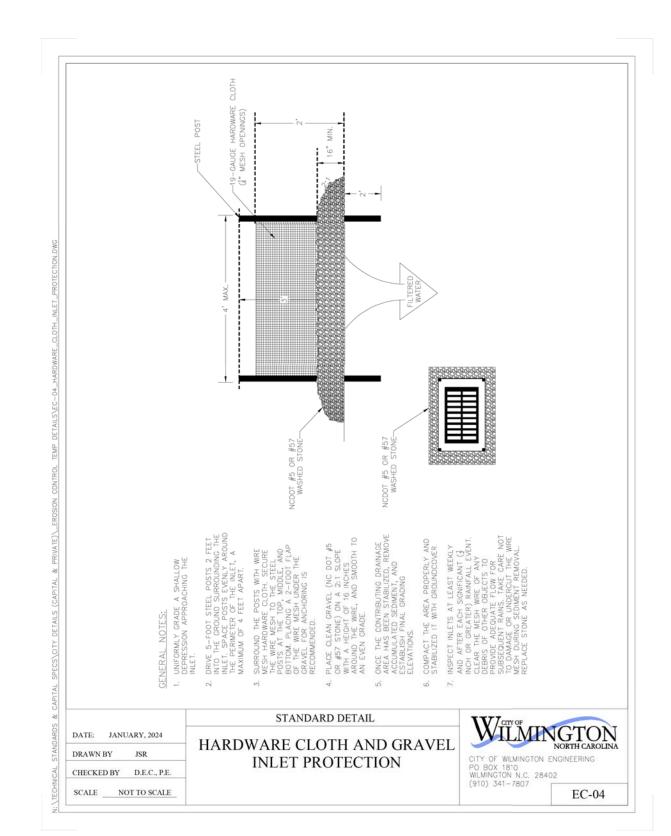
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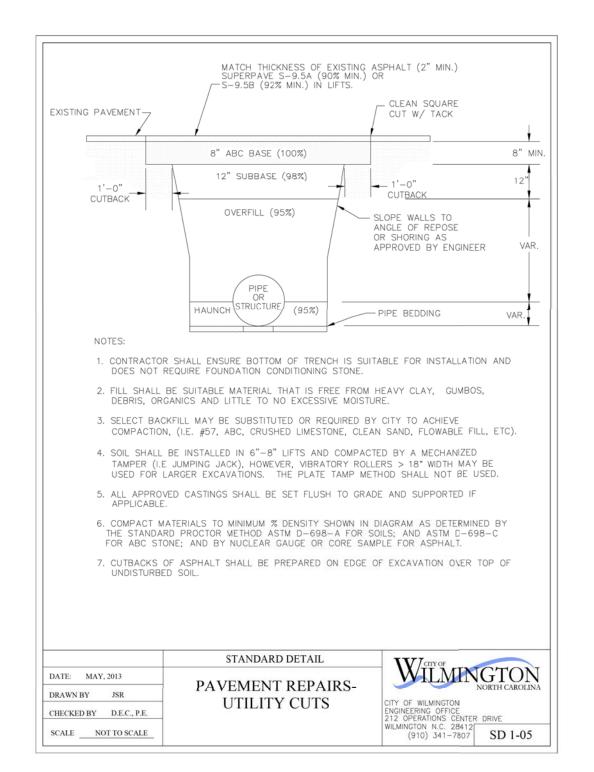
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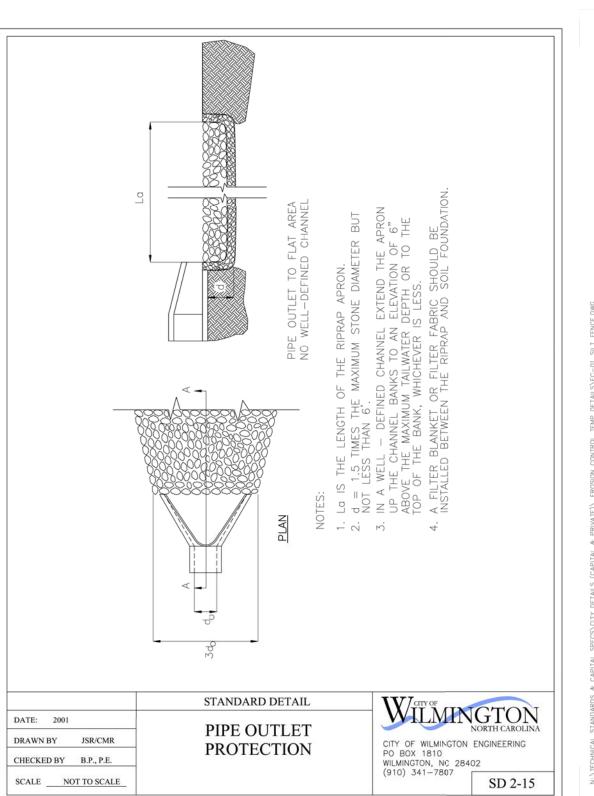


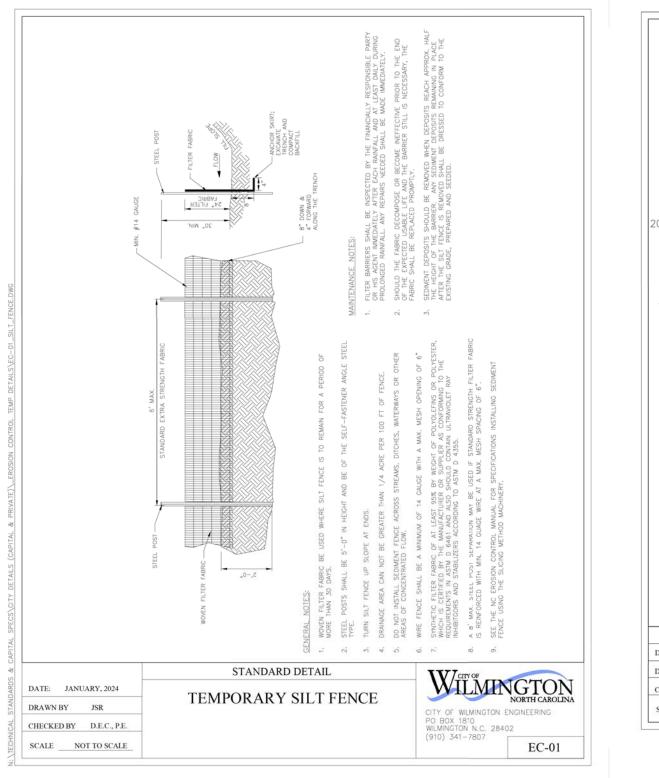


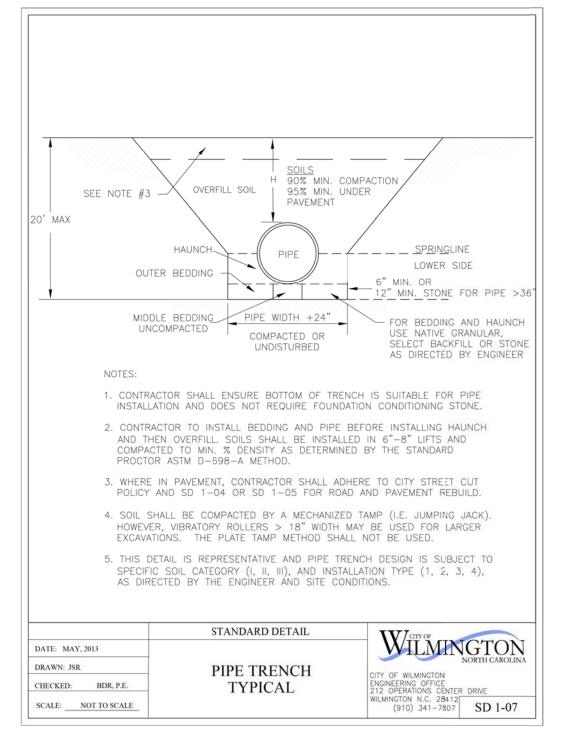


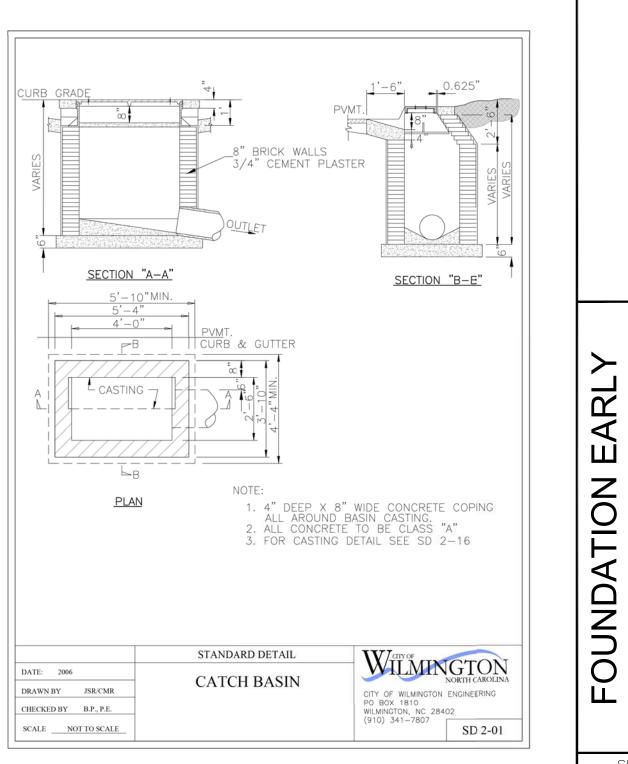












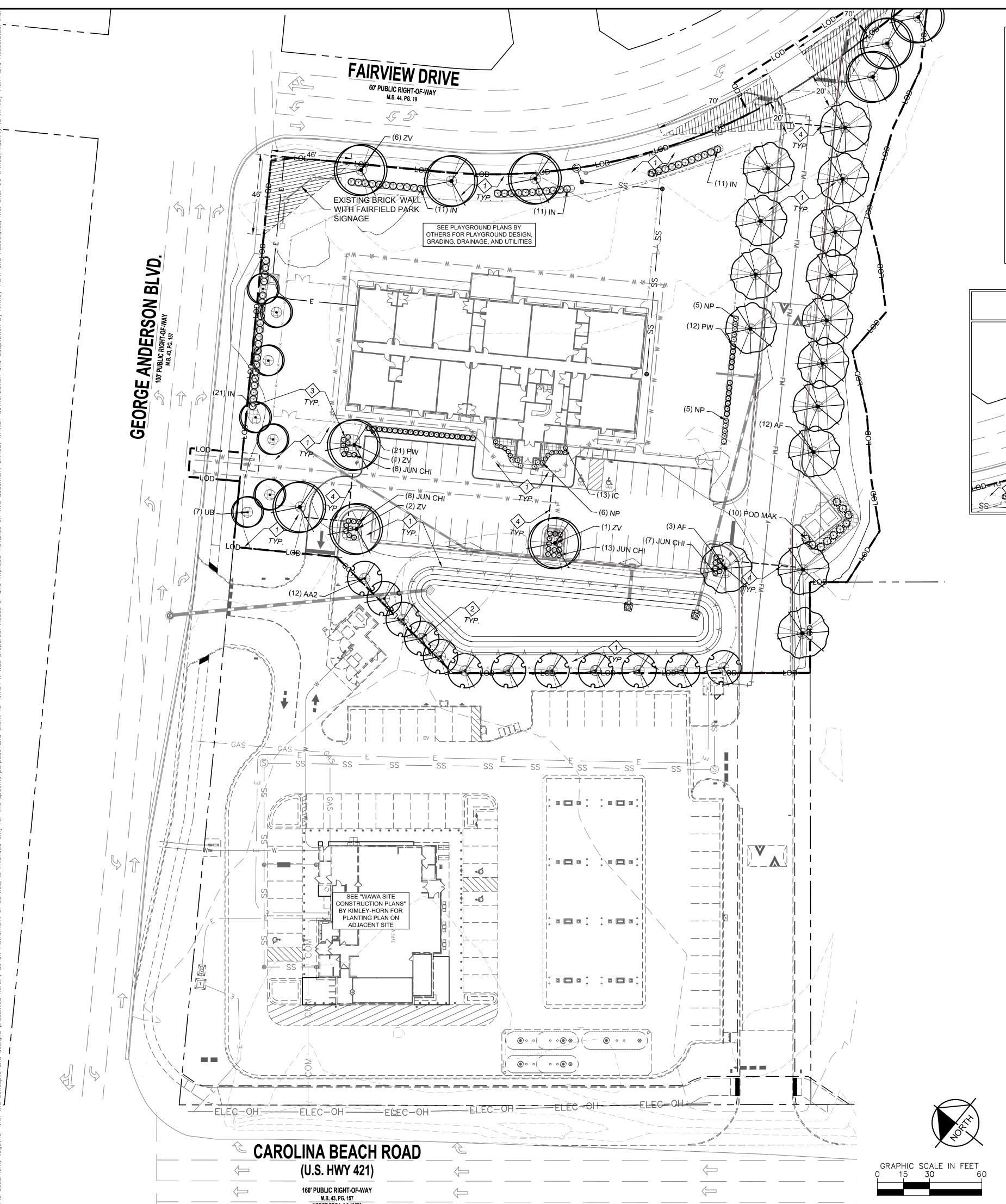


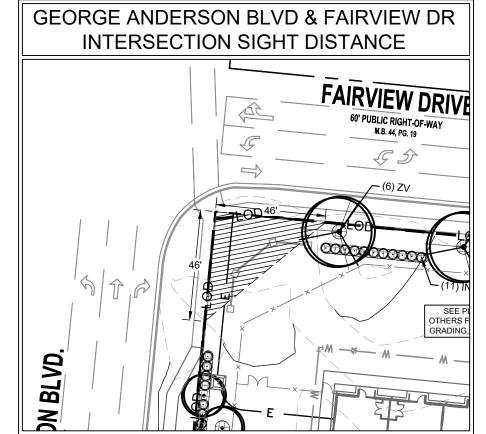
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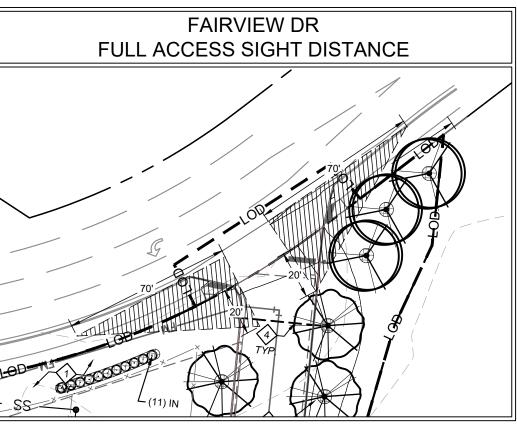


ONSTRUCTION DETAILS

OUNDATION EARLY
LEARNING
PREPARED FOR
KQC INVESTORS, LLC







KEYNOTES

SEED WITH PERMANENT LAWN GRASS. SEE SEEDING NOTES SHEET CP500, AND SEEDING SCHEDULE SHEET CD501.

2 PROVIDE MULCH RING ACCORDING TO THE DETAILS ON SHEET CP500 AROUND THE BASE OF ALL ISOLATED, NEW TREES. MULCH IS NOT TO BE PILED UP AROUND THE TRUNK OF THE TREE AND SHALL NOT COME

LANDSCAPE NOTES

OTHERWISE INDICATED ON THE PLANS TO BE COVERED BY MULCHED PLANT BEDS, PAVEMENTS, BUILDINGS, BMP LANDSCAPING, ETC. SHALL BE PERMANENTLY STABILIZED WITH LAWN GRASS. SEE SHEET C802 FOR PERMANENT SEEDING

PLANT SUBSTITUTIONS

- 1. ALL PLANT SUBSTITUTIONS SHALL REQUIRE WRITTEN APPROVAL
- REQUESTS FOR PLANT SUBSTITUTIONS SHALL BE SUBMITTED TO THE CITY OF VIRGINIA BEACH LANDSCAPE ARCHITECT AND THE ENGINEER OF RECORD ALLOWING SUFFICIENT TIME FOR REVIEW

EXISTING UTILITIES

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- CONFLICTS WITH PROPOSED PLANTINGS SHALL BE REPORTED IMMEDIATELY TO THE PROJECT ENGINEER PRIOR TO EXCAVATION
- DAMAGE TO EXISTING OR PROPOSED UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS COST.

- 1. CONTRACTOR TO COORDINATE WITH OWNER IF IRRIGATION IS REQUIRED.
- GENERAL CONTRACTOR SHALL PROVIDE IRRIGATION SLEEVING ACCORDING TO THE IRRIGATION PLANS SIZED ACCORDINGLY TO PROVIDE IRRIGATION SYSTEM COMPONENTS TO BE INSTALLED ACCORDING TO IRRIGATION PLANS.
- GENERAL CONTRACTOR TO COORDINATE IRRIGATION SLEEVES INSTALLATION WITH OTHER DISCIPLINES AND INSTALL PRIOR TO THE INSTALLATION OF BASE AND PAVING
- IRRIGATION SYSTEM INCLUDING IF REQUIRED A BOOSTER PUMP. SEE IRRIGATION PLAN PROVIDED BY OTHERS.

CITY OF WILMINGTON, NC: LANDSCAPE REQUIREMENTS OLD CODE

Street Yard along Right of Way		erson Blvd.		
LINEAR FEET ALONG FRONTAGE	225.9	90 L.F.		
REQUIRED AREA = 18 S.F. FOR EVERY L.F. OF STREET YARD FRONTAGE	= 4,067.	.00 S.F.		
	REQUIRED		PROVIDED	
1 CANOPY TREE REQUIRED PER 600 SF OF STREET YARD	7		7 TREES	
3 SHRUBS REQUIRED PER 600 SF OF STREET YARD	21		21 SHRUBS PROVIDED	

Secondary Street Yard along Fairview Drive Fairview Drive LINEAR FEET ALONG FRONTAGE 360.40 L.F. 6,488.00 S.F. REQUIRED AREA = 18 S.F. FOR EVERY L.F. OF STREET YARD FRONTAGE = PROVIDED **3 TREES** CANOPY TREE REQUIRED PER 1200 SF OF STREET YARD 33 SHRUBS PROVIDED SHRUBS REQUIRED PER 600 SF OF STREET YARD

Interior Parking Lot Landscape 22,442.00 S.F. Parking Area = 5,610.50 S.F. 8 TREES 4 single islands 1,411.00 S.F.

Total Canopy Trees Required for interior vehicular use area shading **Building Foundation** REQUIRED PROPOSED 3,689.00 S.F. @ 12% 442.68 S.F. 468.00 S.F. 1,700.00 S.F. @ 12% 204.00 S.F. 204.00 S.F. Parking Side Elevation (North East)

Site Canopy Trees 2.357 AC. TOTAL SITE AREA 15 TREES TREES REQUIRED PER ACRE 36 TREES REQUIRED TOTAL TREES REQUIRED TREES PROVIDED **12** 2.5" CAL. **15** 2.5" CAL. 10 2.5" CAL.

Parking Lot Perimeter Landscape Strip adjacent to Lot 2

LINEAR FEET OF PARKING LOT ALONG SIDE LOT LINE REQUIRED PROVIDED REES REQUIRED at 1 per 18 TO 27 LF 12 TREES 12 TREES

WITHIN 6" OF THE TREE TRUNK.

MULCH ALL SHRUB BEDS IN THEIR ENTIRETY.

4 PROVIDE IRRIGATION SLEEVES PER IRRIGATION PLANS BY OTHERS. SEE NOTES BELOW.

1. SEE SHEET C802 FOR THE PLANT SCHEDULE, NOTES AND DETAILS.

ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE NOT NOTES.

- FROM THE CITY OF VIRGINIA BEACH LANDSCAPE ARCHITECT.
- AND APPROVAL.

OF PLANT PITS.

IRRIGATION NOTES

- 2. IF OWNER REQUIRES IRRIGATION FOR LANDSCAPING THE GENERAL CONTRACTOR SHALL OBTAIN IRRIGATION PLANS FROM A QUALIFIED IRRIGATION DESIGNER TO PROVIDE 100 PERCENT COVERAGE OF TURF AND LANDSCAPED AREAS.
- MATERIALS.
- CONTRACTOR TO COORDINATE AND PROVIDE NECESSARY ELECTRICITY FOR THE

Street Yard along Right of Way	George Anderson Blvd.	
LINEAR FEET ALONG FRONTAGE	225.90 L.F.	
REQUIRED AREA = 18 S.F. FOR EVERY L.F. OF STREET YARD FRONTAGE	4,067.00 S.F.	
RE	QUIRED	PROVIDED
1 CANOPY TREE REQUIRED PER 600 SF OF STREET YARD	7	7 TREES
3 SHRUBS REQUIRED PER 600 SF OF STREET YARD	21	21 SHRUBS PROVIDED

Percentage of Parking Lot to be Shaded = Shading Required Trees Required at 707 s.f. per canopy tree (shading Single Islands Provided Large Island Provided (S.F.) Single Islands, 1 tree per island

15 TREES Perimeter Trees @ 192 s.f. per tree 19 TREES

Note: Total trees required for this category may exceed required amount due to total trees required for individual code section fulfilments.

Driveway Side Elevation (North West)

301.00 L.F.

PROVIDED

4 TREES

SHEET NUMBER

ATION E/

NDA

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in accordance with the instructions of the seed provider and manufacturer of the inoculant. When seeding is required at other than the seasons shown F. Caliper Measurement: Shall be taken at a point on the trunk 6 inches above natural ground line for trees up to 4 inches diameter, and at a point 12 TABLE 6.11.b, North Carolina Environmental Quality, Erosion and Sediment Control Planning and Design Manual, a cover crop shall be sown by the

same methods required for grass seeding. G. Plants shall be measured when branches are in the normal position. Height and spread dimensions specified refer to the main body of the plant L. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other. Do not seed against existing trees. M. Rake seed and fertilizer lightly into top 1/8 inch of soil and water with fine spray.

> continuous blanket 1-1/2 inches in loose thickness over seeded areas. Spread by hand, blower, or other suitable equipment. Protect slopes 1:3 and greater with erosion control mats and fasten as recommended by material manufacturer.

N. MULCHING: Protect seeded areas with slopes not exceeding 1:3 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre to form a

O. Straw mulch material--Straw mulch shall consist of wheat, barley, oat or rye straw. The mulch material shall be air-dry, reasonably light in color, and shall not be musty, moldy, caked, or otherwise of low quality. The use of mulch that contains noxious weeds is not permitted. P. Other mulch materials--Mulching materials, such as wood cellulose fiber mulch, synthetic fiber mulch, netting, and mesh, are other mulching materials that

may be required for specialized locations and conditions. These materials must be installed according to the manufacturer's recommendations for methods of application. Q. After the seed has been properly covered, the seedbed shall be immediately compacted by means of an approved lawn roller weighing 40 to 65 pounds

per foot of width for clay soil (or any soil having a tendency to pack) or weighing 150 to 200 pounds per foot of width for sandy or light soils.

accomplished as in the original work (including re-grading if necessary).

B. Cooperate with other Contractors and trades working in and adjacent to other work areas. Examine drawings which show development of entire

A. Within the contractor shall produce a dense, well established lawn. The contractor shall be responsible for maintaining the lawn until acceptance by the owner or owner's authorized representative. B. Maintenance shall include but may not be limited to watering, weeding, and fertilizing as necessary as well as the repair and re-seeding of all eroded,

sunken or bare spots (larger than 12"x12") until certification of acceptability by the owner or owner's representative. Repaired seeding shall be

inches above the natural ground line for trees over 4 inches diameter.

A. Topsoil used in sand/soil mixes shall be screened or shredded prior to mixing in sands. Maximum clod inclusion for soil mixes shall not exceed:

A. Examine the areas and conditions where soil mix is to be installed and notify the Engineer of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

G. If subgrade soil compaction exceeds 80%, existing soil shall be ripped to a depth of 12 inch to alleviate compaction which has taken place during

construction. Prior to loosening of soil, Contractor must locate existing utilities and coordinate with Owner or Owners Representative any

H. Prepare the subgrade by roughening the top 3" of the subsoil by dragging the teeth of a backhoe bucket across the surface.

and not from branch tip to tip.

Clod size (largest dimension) % of the soil mix volume

Unlimited

project and become familiar with scope of other work required.

SOIL INSTALLATION - GENERAL PROCEDURES

underground electric lines, drainage pipes, conduits, etc.

A. Source material and soil mix stockpiles shall be protected from rain by covering with filter cloth.

J. Monitor compaction during installation and loosen soils as needed if compaction exceeds 80%.

20%

SOIL MIXING PROCEDURES

Less than 1

1 to 3 inches

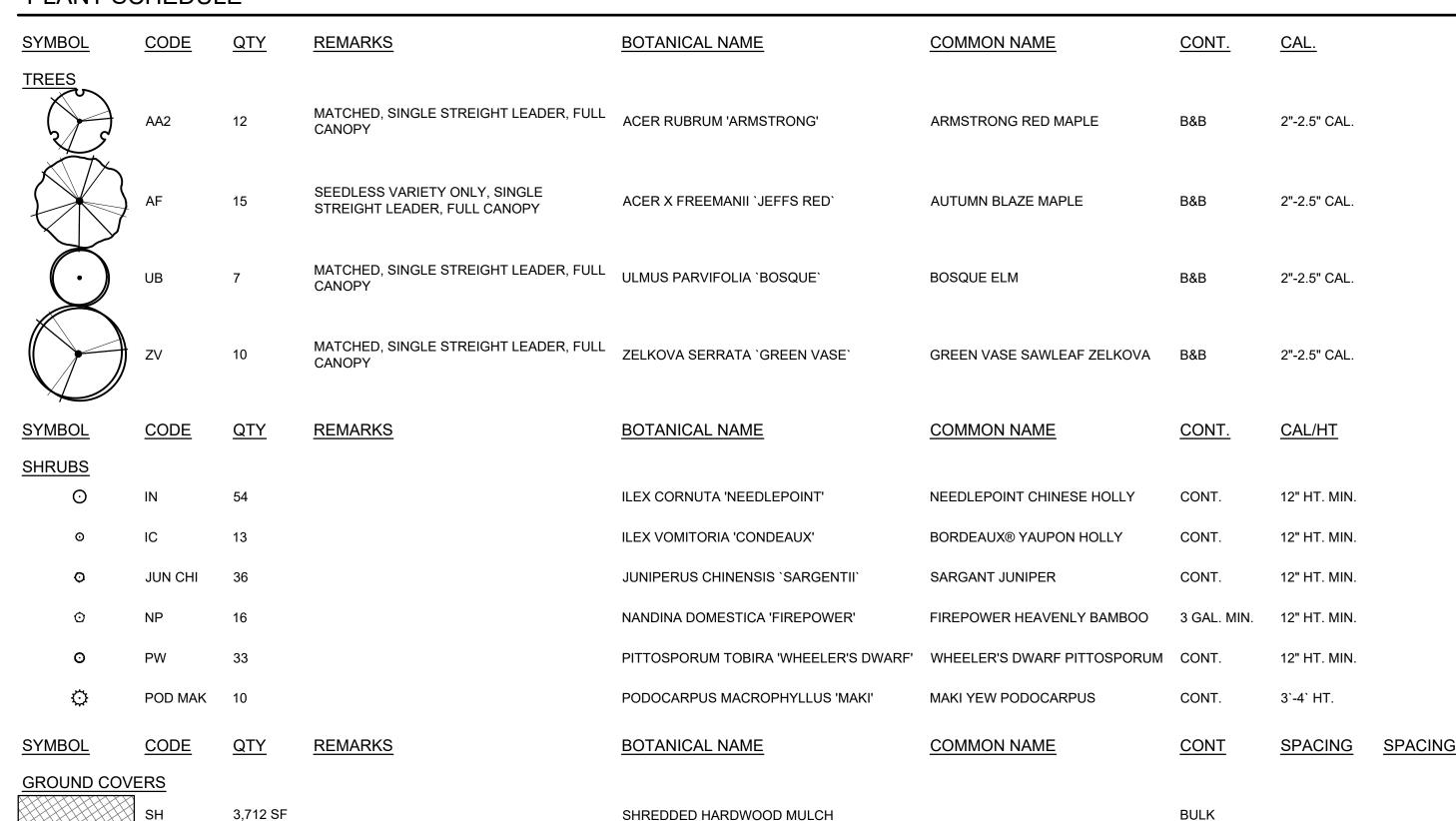
3 to 6 inches

>6 inches

A. A stand of grass shall be considered acceptable when the turf cover is at least 95%. The Contractor shall overseed, and otherwise maintain the grassed I. Begin soil installation as soon as subsoil is prepared. Use low impact equipment with track belts, large tires, or low tire pressure to lower compaction areas until the stand of grass has reached a uniform height of 3 to 4 inches and a state of uniform species maturity. Annual grasses and grain weeds shall not be considered part of the cover percentage, and seeding stands shall not be considered acceptable until the stand reaches a state of uniform post-seeding maturity for the specified species.

-Prune dead or damaged branches in accordance with accepted horticultural practice. ANTING BED TRENCH EDGING NOTE: Remove all tags after inspection. TRENCH EDGE SHALL BE LOCATED BETWEEN PLANTING BED AND ALL TURF / Container planting - remove container and butterfly or cut any circling roots MAINTAIN POSITIVE DRAINAGE IN ALL PLANTING BEDS. SEE NOTES THIS SHEET FOR TYPE OF MULCH. –Mulch with 3" of shredded hardwood mulch. Keep mulch at least 3" away from base of stem/trunk. Original soil backfill; (1) partially backfill around root ball, water to settle soil, (2) then finish backfilling. Use soil additives only when required for special lare side wall of planting pit at a minimum 2:1 slope and scarify existing soil wall. ndisturbed soil subgrade. Leave undisturbed soil pedestal and prepare planting pit 2-3 times the width of the root ball. 2-3 times the width of the root ball -THIS DETAIL IS THE MINIMUM PLANTING STANDARD FOR CONTAINER SHRUBS LESS THAN 48" IN HEIGHT AT -ALL SHRUBS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT COLLAR IS AT THE SAME GRADE, OR SLIGHTLY HIGHER, THAN EXISTING GRADE IN ACCORDANCE WITH ACCEPTED HORTICULTURAL PRACTICE. DO NOT CUT CENTRAL LEADER Provide single, straight dominant central leader. -Prune dead or damaged branches in accordance with DO NOT CUT CENTRAL LEADER acceptable horticultural practice. Provide single, straight dominant central leader. -Prune dead or damaged branches in accordance with acceptable horticultural practice. Remove all tags after inspection. Remove all tags after inspection. _ArborTie green staking and guying material is to be flat woven polypropylene material. 3/4" (19.05mm) wide 900 lb. break strength. Install per manufacturers recommendation. —ArborTie green staking and guying material is to be flat woven Form soil saucer to retain water, minimum of 4" ht, continuous around planting pit. polypropylene material. 3/4" (19.05mm) wide 900 lb. break strength. delete use in planting beds. Install per manufacturers recommendation. Prune to remove suckers. Flag all tree ties with brightly colored flagging. ─B&B planting - remove ropes, top half of burlap and entire wire basket. Container planting - remove container and butterfly or cut any circling roots. Set tree above original grade 1/8 depth of root ball Flag all tree ties with brightly colored flagging. B&B planting - remove ropes, top half of burlap and entire wire basket. —Mulch with 3" of shredded hardwood mulch. Keep mulch at least 3" away from Container planting - remove container and butterfly or cut any circling roots. base of trunk, mulch entire planting bed. —Mulch with 3" of shredded hardwood mulch. Keep mulch at least 3" away from —2" X 2"X 24" P.T. wood stakes, provide 3 in a radial pattern. Nail ArborTie to base of trunk, mulch entire planting bed. stake. See typical staking layout. -2" X 2"X 24" P.T. wood stakes. provide 3 in a radial pattern. See typical Original soil backfill; (1) partially backfill around root ball, water to settle staking layout. soil, (2) then finish backfilling. Use soil additives only when required for Original soil backfill; (1) partially backfill around root ball, water to settle soil, (2) then finish backfilling. Use soil additives only when required for Flare side wall of planting pit at a minimum 2:1 slope and scarify existing soil wall. special conditions. Flare side wall of planting pit at a minimum 2:1 slope and scarify existing soil wall. Leave undisturbed soil pedestal and prepare planting pit 2-3 times the width of the root ball. 2-3 times the width Indisturbed soil subgrade. of the root ball Leave undisturbed soil pedestal and prepare planting pit 2-3 times the width of the root ball. 2-3 times the width of the root ball

Evergreen Tree Planting



-CONTRACTOR SHALL HAVE MISS UTILITIES LOCATE ALL UTILITIES IN THE PLANTING AREA PRIOR TO BEGINNING PLANTING OPERATIONS. ANY CONFLICTS WITH PROPOSED PLANTING SHALL BE REPORTED IMMEDIATELY TO THE STORE MANAGER AND ENGINEER / LANDSCAPE ARCHITECT BEFORE ANY PLANTING OPERATIONS ARE TO BEGIN. -THESE DETAILS ARE THE MINIMUM PLANTING STANDARD FOR CONTAINER or BALLED & BURLAPPED DECIDUOUS AND EVERGREEN TREES UP TO 2-1/2" IN CALIPER. -ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT COLLAR IS APPROXIMATELY 1" HIGHER THAN EXISTING GRADE.



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