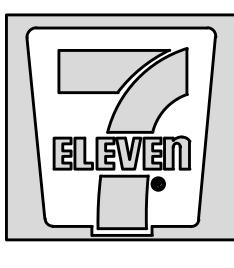


CONSTRUCTION DOCUMENTS Proposed 7-Eleven Store #42378



1106 N. Arendell Avenue Zebulon, North Carolina Wake County

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Total	60

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DEVELOPER

C4 CStore Holdings III, LLC Nick Carroll 801 East Boulevard Charlotte, NC 28202 (502) 693-0396 ncarroll@csere.com

CIVIL ENGINEER

Bowman North Carolina, Ltd. 4006 Barrett Drive, Suite 104 Raleigh, NC 27609 (919) 553-6570 mlowder@bowman.com FIRM# F-1445

CURRENT PROPERTY OWNERS Carl Victor Tart, Jr. and Vickie Newton Tart Burlington 7815 Roxboro Road Bahama, NC 27503-9045

UTILITY SERVICE NOTES
WATER SERVICE GENERAL CONTRACTOR TO PROVIDE AND INSTALL A WATER SERVICE LINE FROM MAIN TO BUILDING PER MUNICIPAL REQUIREMENTS. CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919–857–4540
ELECTRIC SERVICE "POWER CO." TO PROVIDE UNDERGROUND 120/208/3 PHASE SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL TWO 4" DIA. CONDUIT W/ PULL WIRE TO UTILITY COMPANY POINT OF CONNECTION. CONTACT: PROGRESS ENERGY TELEPHONE: 800–636–0581
TELEPHONE SERVICE "TELEPHONE CO." TO PROVIDE NEW UNDERGROUND SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" DIA. PVC CONDUIT W/ PULL WIRE FROM PHONE PANEL BOARD TO UTILITY COMPANY POINT OF CONNECTION. CONTACT: TELEPHONE:
SANITARY SEWER GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" SCHEDULE 40 PVC FROM SANITARY SEWER SYSTEM TO LAST CLEAN OUT OUTSIDE OF BUILDING. (MIN. 1% SLOPE). PROVIDE CLEAN OUTS EVERY 75' (TYPICAL). CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540
NATURAL GAS GENERAL CONTRACTOR TO COORDINATE WITH NATURAL GAS UTILITY FOR SERVICE LINE TO PROPOSED BUILDING. CONTACT: TELEPHONE:

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

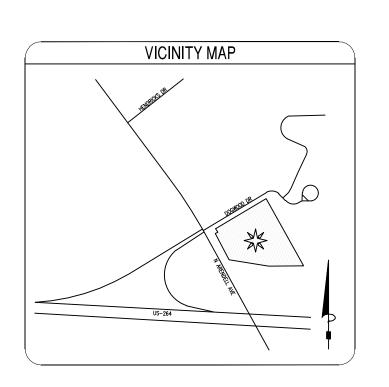
APPROVED EROSION CONTROL
SEC-112353-2023

STORMWATER MGMT. SWF-112350-2023 FLOOD STUDY 🗌 S-

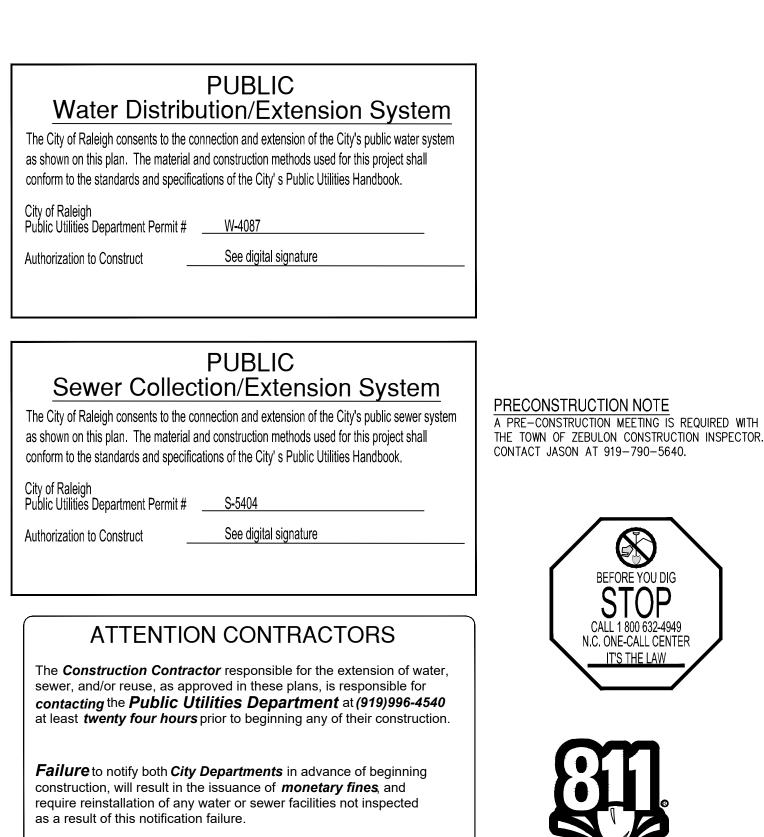
DATE 01/02/2024

WAKE

ENVIRONMENTAL CONSULTANT SIGNATURE



In	dex of Drawings
SHEET	SHEET TITLE
NUMBER	
<u>C0.0</u>	COVER SHEET
<u>C0.1</u>	GENERAL NOTES
C2.0	DEMOLITION PLAN
C2.1	EROSION CONTROL PLAN - INITIAL
C2.2	EROSION CONTROL PLAN - INTERMEDIATE
C2.3	EROSION CONTROL PLAN - FINAL
C2.4	EROSION CONTROL NOTES
C2.5	NC CONSTRUCTION GENERAL PERMIT (NCGO1)
C3.0	SITE PLAN
C3.1	PAVEMENT PLAN
C3.2	ROADWAY PROFILE
C3.3	ROADWAY PLAN (1 OF 2)
C3.4	ROADWAY PLAN (2 OF 2)
C3.5	TRUCK TURN PLAN (WB-50)
C3.6	TRUCK TURN PLAN (WB-67)
C4.0	GRADING PLAN
C4.1	GRADING & DRAINAGE NOTES
C4.2	CUT-FILL ANALYSIS PLAN
C5.0	UTILITY PLAN
C5.1	UTILITY NOTES
C5.2	SEWER PLAN & PROFILE
C5.3	WATER PLAN & PROFILE
C6.0	EROSION CONTROL DETAILS
C6.1	EROSION CONTROL DETAILS
C6.2	CONSTRUCTION DETAILS
C6.3	CONSTRUCTION DETAILS
C6.4	CONSTRUCTION DETAILS
C6.5	OFFSITE CONSTRUCTION DETAILS
C6.6	OFFSITE CONSTRUCTION DETAILS
C6.7	OFFSITE CONSTRUCTION DETAILS
C6.8	GRADING & DRAINAGE DETAILS
C6.9	SEWER DETAILS
C6.10	SEWER DETAILS
C6.11	SEWER DETAILS
C6.12	WATER DETAILS
C6.13	STORMWATER MANAGEMENT DETAILS
C6.14	STORMWATER MANAGEMENT DETAILS
C7.0	LANDSCAPING PLAN
C7.1	LANDSCAPING NOTES
C8.0	LIGHTING PLAN
R0.00	SHELL PLAN
R1.00	REVIEW BOARD ELEVATIONS
R1.01	REVIEW BOARD ELEVATIONS



Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

Crosland Southeast -Eleven Store #4237 Zebulon, NC 配 v v 4 v v ORE OR BLDG NO.: /ERSION OR PROJECT ID: DESIGN TEAM GNR. BRM & MCB M./DP. ML /WR. ML SSUE DATE: 04/08/2024 DDRESS 106 N ARENDELL AVE ZEBULON, NC 27597 HEET TITLE COVER SHEET

RWG. NO. C0.0

BEFORE YOU DIG

CALL 1 800 632-4949

N.C. ONE-CALL CENTER

Know what's below.

Call before you dig.

DESCRIPTION	PROPOSED
PROPERTY LINE	
ADJACENT PROPERTY LINE	
LOT LINE	
RIGHT OF WAY	
CENTERLINE	
FLOOD PLAIN	· · · · · · · -
LIMITS OF CONSTRUCTION	
LIMITS OF DISTURBANCE	L00 L00
SWALE / STREAM FLOWLINE	
OVERFLOW RELIEF PATH	\sim
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TREE	(\cdot)
TREE LINE	
	PROPERTY LINE ADJACENT PROPERTY LINE LOT LINE RIGHT OF WAY CENTERLINE FLOOD PLAIN LIMITS OF CONSTRUCTION LIMITS OF DISTURBANCE SWALE / STREAM FLOWLINE OVERFLOW RELIEF PATH FENCE LINE EASEMENT EDGE OF PAVEMENT VERTICAL CURB AND GUTTER MOUNTABLE CURB AND GUTTER CONCRETE SIDEWALK ASPHALT SIDEWALK ASPHALT SIDEWALK ASPHALT SIDEWALK ASPHALT SIDEWALK BIGN(S) PARKING COUNT INDICATOR VEHICLES PER DAY INDICATOR VEHICLES PER DAY INDICATOR VEHICLES PER DAY INDICATOR TEST PIT MONITORING WELL MAJOR CONTOUR GRADE BREAK RIDGELINE SPOT ELEVATION RIP RAP WATER LINE WATER METER WATER FITTINGS FIRE HYDRANT SANITARY LINE SANITARY MANHOLE STORM SEWER FLARED END SECTION STORM SEWER MANHOLE STORM SEWER MANHOLE STORM SEWER FLARED END SECTION STORM SEWER FLARED END SECTION STORM SEWER MANHOLE STORM SEWER FLARED END SECTION STORM SEWER FLARED END SECTION

ADDDEVIATIONO

ABBRE	VIATIONS
A AASHTO	AREA OF ARC AMERICAN ASSOCIATION OF STATE HWY & TRANS. OFFICIALS
AB	AS-BUILT
AC	ACRE
AD	ALGEBRAIC DIFFERENCE IN GRADE
AE	ACCESS EASEMENT
ADJ	ADJACENT
AGGR	AGGREGATE
AHD	AHEAD
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APT	ANGLE POINT
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
B	BREADTH
BOC	BACK OF CURB
BF	BASEMENT FLOOR
BLDG	BUILDING
BM	BENCHMARK
BMP BOV BRG BRL BVCE	BENCHMARK BEST MANAGEMENT PRACTICES (WATER QUALITY) BLOW OFF VALVE BEARING BUILDING RESTRICTION LINE BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
BW	BOTTOM OF WALL
c,e C,e CATV C&G CB CBR CC CF CFS CG(R) CH CHBRG CIP C CLR CM CMP CMS CN CONT CO CONT CO CONC CPP CS	CENTER CORRECTION ON VERTICAL CURVE RUNOFF COEFFICIENT CABLE TELEVISION CURB AND GUTTER CATCH BASIN CALIFORNIA BEARING RATIO CENTER TO CENTER CUBIC FEET CUBIC FEET PER SECOND CURB AND GUTTER (REVERSE SLOPE) CHORD CHORD BEARING CAST IRON PIPE CENTERLINE CLEAR CUBIC METERS CORRUGATED METAL PIPE CUBIC METERS PER SECOND RUNOFF CURVE NUMBER CONTINUOUS CLEAN OUT CONCRETE CORRUGATED PLASTIC PIPE CURB STOP
CT CTR CTRL CY	COURT CENTER CONTROL LINE
D DA DB DD DET DIA DIP DI DIST DL DM DOM DR DR DR DR DR DR DR DR DR DR D D WG D/W	CUBIC YARD DEPTH DRAINAGE AREA DEED BOOK DIVERSION DIKE DETAIL DIAMETER DUCTILE IRON PIPE DROP INLET DISTANCE DOMESTIC LINE DROP MANHOLE DOMESTIC DRIVE DRAIN DRAINAGE DRAINAGE AREA DOWN SPOUT DWELLING UNITS DRAWING DRIVEWAY DELTA
$E\Delta$ EA EBL EC ECB EG EGL ELC ELEC ELEV ENGR ENT EOA EOC EOP EQUIP ESMT ETD ETD ETR ETR ETR ETR ETR ETR ETR ETR ETR ETR	EASTING/EAST EACH EAST BOUND LANE EROSION CONTROL EROSION CONTROL BLANKET EDGE OF GUTTER ENERGY GRADIENT LINE ELEVATION ELECTRIC ELEVATION ENGINEER ENTRANCE EDGE OF ASPHALT EDGE OF CONCRETE EDGE OF PAVEMENT EQUIPMENT EASEMENT EXISTING TO BE DEMOLISHED EXISTING TO BE RELOCATED EXISTING TO BE RELOCATED EXISTING TO BE REPLACED ENDING VERTICAL CURVE ELEVATION ENDING VERTICAL CURVE STATION END WALL EXISTING ENVIRONMENTAL QUALITY CORRIDOR
F FAR FOC FD FES FF FG FH FC FND FOY FPS FS FT	FIRE LINE FLOOR AREA RATIO FACE OF CURB FLOOR DRAIN FLARED END SECTION FIRST FLOOR OR FINISH FLOOR FINISH GRADE FIRE HYDRANT FLOW LINE FOUNDATION FOYER FLOOD PLAIN FEET PER SECOND FIRE SERVICE OR FACTOR OF SAFETY FOOT OR FEET
G	GAS
GAR	GARAGE
GB	GRADE BREAK
GFA	GROSS FLOOR AREA
GR	GUARD RAIL OR GRATE INLET
GV	GATE VALVE
H	HEAD
HC	HANDICAP
HB	HORIZONTAL BEND
HBP	HOT BITUMINOUS PAVEMENT
HGL	HYDRAULIC GRADE LINE
HORZ	HORIZONTAL
HP	HIGH POINT
HR	HAND RAIL
HT	HEIGHT
HW	HEADWATER
I	RAINFALL INTENSITY
ID	INSIDE DIAMETER OR IDENTIFICATION
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
IP	IRON PIPE
IPF	IRON PIPE FOUND
IPS	IRON PIPE SET
IRR	IRRIGATION
JB	JUNCTION BOX
JNT	JOINT

LEGEND NOTES

- 1. THIS IS A STANDARD SHEET, THEREFORE SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE USED ON THE PROJECT.
- 2. ADDITIONAL LEGENDS AND NOTES MAY BE FOUND ON OTHER SHEETS ASSOCIATED WITH THIS PLAN. THESE LEGENDS AND NOTES ARE TO BE REFERENCED IN ADDITION TO THIS STANDARD SHEET.

SIGHT DISTANCE COEFFICIENT OR RATE OF VERTICAL CURVATURE CULVERT ENTRANCE LOSS COEFFICIENT

I FNGTH

IATERAL LIMITS OF CLEARING & GRADING LINEAR FEET LIP OF PAN LOWER LEVEL LINE OF SIGHT

LOW POINT LOADING SPACE IFFT

MONUMENT FOUND MAXIMUM MATCH EXISTING MECHANICAL MANHOLE MILE

MINIMUM MISCELLANEOUS MILES PER HOUR MEDIAN STRIP MEAN SEA LEVEL

NORTHING/NORTH NOT APPLICABLE NORTH BOUND LANE NOW OR FORMERLY NET FLOOR AREA NUMBER NOT TO SCALE

ON CENTER OBJECT OUTSIDE DIAMETER OVFRHANG OVERHEAD OVERHEAD CABLE OVERHEAD ELECTRIC

OVERHEAD TELEPHONE PERIMETER

PROPERTY LINE PLAN AND PROFILE POINT OF CURVATURE

POINT OF COMPOUND CURVATURE POINT OF CURB RETURN

POINT OF CURVE EDGE OF PAVEMENT POINT OF CURVATURE TOP OF CURB POINT OF INTERSECTION

PAGE POINT OF GRADE LINE POINT OF REVERSE CURVATURE

PRELIMINARY PROPOSED

POINT OF TANGENCY PUBLIC UTILITY EASEMENT

POLYVINYL CHLORIDE PIPE OR POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION

POINT OF VERTICAL TANGENCY PAVEMENT

POINT OF VERTICAL REVERSE CURVE AMOUNT OF RUNOFF (FLOW RATE)

RADIUS

REINFORCED CONCRETE PIPE REDUCER ROAD OR ROOF DRAIN REINFORCED REQUIRED RETAINING REVISION ROUGH GRADING PLAN RESOURCE MANAGEMENT AREA REMOTE OUTSIDE MONITOR RESOURCE PROTECTION AREA

RAILROAD RIGHT ROUTE R/W& ROW RIGHT OF WAY

> SPEED OR SLOPE SANITARY SEWER SANITARY SEWER MANHOLE SOUTH BOUND LANE

SCHEDULE SIGHT DISTANCE SECTION

SEWER SQUARE FEET

SHOULDER SPACE OR SITE PLAN

SPECIFICATIONS STATION STANDARD

STACK STORM SEWER STORM SEWER MANHOLE

STRUCTURE SERVICE

SIDE WALK STORM WATER MANAGEMENT CROSS SLOPE SQUARE YARD

TANGENT TOP OF BANK OR TEST BORING

TO BE REMOVED TOP OF CURB TIME OF CONCENTRATION

TELEPHONE TEMPORARY

TEST HOLE TOP OF FOUNDATION TOP OF PIPE

TEST PIT OR TREE PROTECTION TOP OF WALL OR TAILWATER TYPICAL

UTILITY EASEMENT UNDERGROUND UNDERGROUND ELECTRIC UNDERGROUND TELEPHONE UNDERGROUND CABLE UNDERDRAIN

UPPER LEVEL UTILITY POLE US GEOLOGICAL SURVEY UTILITY

VOLUME VELOCITY HANDICAPPED VAN PARKING SPACE VERTICAL BEND VERTICAL CURVE VERTICAL FOOT

WEIGHT OR WIDTH WEST BOUND LANE WATER LINE WATER METER WATER MAIN

WITH THRUST BLOCK WATER SURFACE ELEVATION WATER VALVE

CROSSING TRANSFORMER

YARD INLET YEAR

GENERAL NOTES

- 1. UTILITY CONFLICTS: ALL EXISTING UTILITIES SHOWN WERE COMPILED USING THE BEST AVAILABLE INFORMATION AND FIELD OBSERVATION. BOWMAN NORTH CAROLINA LTD DOES NOT GUARANTEE THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON. CONTRACTOR TO BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION OF AND PROTECTING ALL EXISTING UTILITIES, INCLUDING THOSE NOT SHOWN OR SHOWN INCORRECTLY ON THE PLANS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED IN A TIMELY FASHION TO THE SATISFACTION OF THE APPROPRIATE GOVERNING AGENCY AND THE OWNER OF THE IMPACTED UTILITY AT THE CONTRACTOR'S EXPENSE.
- 2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS FOR THE APPROPRIATE GOVERNING AGENCY. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT THE JOB SITE AT ALL TIMES THE APPROPRIATE GOVERNING AGENCY'S PUBLIC WORKS MANUAL, ALL APPROVED EASEMENT AGREEMENTS, AND ONE (1) SIGNED COPY OF THE PLANS AS APPROVED BY THE APPROPRIATE GOVERNING AGENCY. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE APPROPRIATE GOVERNING AGENCY FOR ANY VARIANCE TO THE ABOVE DOCUMENTS.
- 3. CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARDS, SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.
- 4. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND MUST COMPLY WITH OSHA REGULATIONS.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER/DEVELOPER AND ENGINEER OF ANY PROBLEM CONFORMING TO THE APPROVED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
- 6. THE CONTRACTOR SHALL REPAIR ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY HIS/HER CONSTRUCTION.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL MATERIALS WITHIN DEDICATED RIGHT-OF-WAY AND ALL MATERIALS AND WORKMANSHIP SHALL MEET THE ROADWAY DESIGN AND CONSTRUCTION STANDARDS OF THE APPROPRIATE GOVERNING AGENCY.
- 8. THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION. THE APPROPRIATE FIRE DEPARTMENT SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSURES AND IN THE EVENT THAT ANY FIRE HYDRANTS ARE TO BE TEMPORARILY REMOVED FROM SERVICE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING AT LEAST 48 HOURS ADVANCED NOTICE OF ANY NEED TO SHUT DOWN ANY PORTION OF THE EXISTING WATER SYSTEM AND FOR OBSERVATIONS AND/OR INSPECTIONS REQUIRED.
- 9. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES, FLAGMEN, LIGHTS OR OTHER DEVICES NECESSARY FOR SAFE TRAFFIC CONTROL IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AS MODIFIED BY THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE APPROPRIATE GOVERNING AGENCY PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMIT FOR WORK WITHIN THE RIGHT-OF-WAY.
- 10. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF NORTH CAROLINA AT 1-800-632-4949 AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ANY AFFECTED UTILITY COMPANY
- 11. THE CONTRACTOR SHALL OBTAIN COPIES OF THE "SOILS AND INVESTIGATION" REPORT FROM GEOTECHNICAL ENGINEER ALONG WITH THE "PAVEMENT THICKNESS DESIGN REPORT". THE CONTRACTOR MUST HAVE COPIES OF SAME ON THE SITE AT ALL TIMES.
- 12. THE CONTRACTOR IS REQUIRED TO PROVIDE AS-CONSTRUCTED HORIZONTAL AND VERTICAL CONSTRUCTION INFORMATION, INCLUDING THE LOCATIONS OF ALL SANITARY LINES AND SERVICES, WATER LINES AND SERVICES, AND OTHER UTILITY LINES AND SERVICES TO THE ENGINEER FOR PREPARATION OF AS-BUILT DOCUMENTS.
- 13. LIMITS OF CONSTRUCTION EASEMENTS AND RIGHTS-OF-WAY SHALL BE DELINEATED WITH TEMPORARY STAKING BY THE CONTRACTOR. SAFETY FENCING SHALL BE PER APPROPRIATE GOVERNING AGENCY.
- 14. WHERE EXCAVATION IS REQUIRED UNDER EXISTING ASPHALT OR CONCRETE PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAW CUT IN A MANNER TO EFFECT A SMOOTH, STRAIGHT-CUT EDGE. ASPHALT PATCH SHALL BE PER APPROPRIATE GOVERNING AGENCY STANDARDS.
- 15. REFER TO FINAL RECORDED PLAT FOR ACTUAL LOT, TRACT, PARCEL, AND EASEMENT LOCATIONS AND DESIGNATIONS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL MATERIALS WITHIN DEDICATED RIGHT-OF-WAYS AND ALL MATERIALS AND WORKMANSHIP SHALL MEET THE ROADWAY DESIGN AND CONSTRUCTION STANDARDS OF THE APPROPRIATE GOVERNING AGENCY. 17. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY TO THE PROJECT WORK SITE (SEE THE EROSION CONTROL PLAN). THE CONTRACTOR SHALL
- OBTAIN ALL PERMITS NECESSARY (IF APPLICABLE) TO COMPLETE THE CONSTRUCTION AND SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. 18. WATER WILL BE PROVIDED BY THE CONTRACTOR TO KEEP WIND EROSION IN CHECK. USE OF WATER AS A DUST PREVENTATIVE SHALL NOT BE PAID FOR
- SEPARATELY, BUT INCLUDED IN THE COST OF THE WORK. 19. ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE PROPERTY LIMITS DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR.
- 20. ANY CONSTRUCTION DEBRIS OR MUD TRACKING IN THE PUBLIC RIGHT-OF-WAY RESULTING FROM THIS DEVELOPMENT SHALL BE REMOVED IMMEDIATELY BY 64. THE STORM DRAIN, STORMWATER MANAGEMENT AND WATER QUALITY FACILITIES MUST BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THEY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY FIX ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY THE DEVELOPMENT AND SHALL PROPERLY BARRICADE THE SITE UNTIL CLEAN UP OR REPAIR IS COMPLETE.
- 21. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO GRADE STREET CORES, RIGHT-OF-WAY TEMPLATES, AND LOTS ACCORDING TO GRADING INSTRUCTIONS SHOWN ON PLANS.
- 22. STREET CONTOURS SHOWN AT PROPOSED STREET LOCATIONS REPRESENT FINISHED GRADE ELEVATION TO TOP OF ASPHALT.
- 23. COMPACTION FILL MATERIAL SHALL BE COMPACTED ACCORDING TO THE APPROPRIATE GOVERNING AGENCY REGULATIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- 24. TOLERANCE ROUGH GRADING: TOLERANCE SHALL BE +/- 0.1 FEET.
- 25. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ALL APPROPRIATE PERMITS FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY HAVE BEEN OBTAINED PRIOR TO GRADING. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL TEMPORARY WATER DIVERSION/CONTROL DEVICES AND EROSION CONTROL DEVICES NECESSARY TO PROTECT ADJACENT PROPERTIES. WATERWAYS AND PUBLIC RIGHT-OF-WAY. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF SAID DEVICES THROUGHOUT CONSTRUCTION AND UNTIL THE PERMANENT PROTECTION NECESSARY HAS BEEN COMPLETED.
- 26. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MOST CURRENT APPROVED ARCHITECTURAL/ MECHANICAL/ELECTRICAL/PLUMBING/STRUCTURAL PLANS AND COORDINATE SAME WITH THE SITE PLAN, PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.
- 27. WHEN DURING THE COURSE OF CONSTRUCTION, ANY OBJECT OF AN UNUSUAL NATURE IS ENCOUNTERED, THE CONTRACTOR SHALL CEASE WORK IN THAT AREA AND IMMEDIATELY NOTIFY THE OWNER, APPROPRIATE GOVERNING AGENCY, AND/OR THE ARCHITECT/ENGINEER.
- 28. THE EXISTING UNDERGROUND UTILITIES SHOW HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. IF DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN IN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
- 29. ALL STEPS WITH THREE OR MORE RISERS SHALL HAVE HAND RAILS, PER LOCAL CODE.
- 30. A SMOOTH GRADE SHALL BE MAINTAINED FROM THE CENTERLINE OF EXISTING ROAD TO PROPOSED CURB AND GUTTER AND/OR PROPOSED EDGE OF PAVEMENT TO PRECLUDE THE FORMING OF FALSE GUTTERS AND/OR THE PONDING OF ANY WATER IN THE ROADWAY. REMOVE AND RECONSTRUCT EXISTING PAVEMENT AND/OR CURB AS DICTATED BY FIELD CONDITIONS TO PROVIDE POSITIVE DRAINAGE AT TIE-IN-POINTS.
- 31. OVERLAY OF EXISTING PAVEMENT SHALL BE MINIMUM OF 1 1/2 INCH DEPTH; ANY COST ASSOCIATED WITH PAVEMENT OVERLAY, OR THE MILLING OF EXISTING PAVEMENT TO OBTAIN REQUIRED DEPTH, SHALL BE ASSUMED BY THE CONTRACTOR.
- 32. ALL RIGHT-OF-WAY DEDICATED FOR PUBLIC USE SHALL BE CLEAR AND UNENCUMBERED.
- 33. AN AIR QUALITY PERMIT SHALL BE OBTAINED IF REQUIRED.
- 34. ANY LIGHTING SHOWN HEREON IS AS SPECIFIED BY THE CLIENT AND IS INCLUDED FOR INFORMATION PURPOSES ONLY, AS DIRECTED BY THE OWNER AND/OR PUBLIC AGENCY REQUIREMENTS. BOWMAN CONSULTING GROUP, LTD. HAS NOT PERFORMED THE LIGHTING DESIGN, AND THEREFORE DOES NOT WARRANT AND IS NOT RESPONSIBLE FOR THE DEGREE AND/OR ADEQUACY OF ILLUMINATION ON THIS PROJECT.
- 35. THE CONTRACTOR WILL BE REQUIRED TO NOTIFY ALL RESIDENCES WITHIN VICINITY OF THE PROPERTY BOUNDARY TEN (10) DAYS PRIOR TO ANY BLASTING IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AGENCY REQUIREMENTS.
- 36. NO BLASTING SHALL BE PERMITTED WITHIN 25' OF EXISTING UTILITY LINES OR STRUCTURES. BLASTING TO BE EXTENDED 25' BEYOND PROPOSED STRUCTURES IF CONDITIONS WARRANT FUTURE EXTENSIONS.
- 37. ALL RETAINING WALLS 4' IN HEIGHT AND OVER (MEASURED FROM BOTTOM OF FOOTER TO TOP OF WALL) REQUIRE A SEPARATE BUILDING PERMIT.
- 38. THE APPROVAL OF THIS PLAN DOES NOT CONSTITUTE THE APPROVAL OF FUTURE WORK.
- 39. ALL HANDICAPPED SPACES SHALL HAVE AN ABOVE GRADE IDENTIFICATION SIGN MEETING APPROPRIATE GOVERNING AGENCY STANDARDS.
- 40. WHERE A PROPOSED PIPE CROSSES OR PARALLELS A STREET OR DRIVE AISLE, THE ASPHALT SHALL BE NEATLY SAWCUT TO FULL DEPTH. AFTER INSTALLATION OF THE PIPE, THE ROADWAY SHALL BE PATCHED IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AGENCY STANDARDS.
- 41. REFER TO THE TOWN OF ZEBULON STREET STANDARDS AND SPECIFICATIONS MANUAL FOR APPLICABLE CONSTRUCTION REQUIREMENTS WITHIN THE TOWN OF ZEBULON.

GENERAL NOTES (CONT.)

42. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND MAKE ALL INSPECTIONS NECESSARY IN ORDER TO DETERMINE THE FULL EXTENT OF THE WORK REQUIRED TO MAKE THE PROPOSED WORK CONFORM TO THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, CONDITIONS, AND CONFIRMATION AND CONDITION OF EXISTING GROUND SURFACE AND THE CHARACTER OF THE EQUIPMENT AND FACILITIES NEEDED PRIOR TO AND DURING EXECUTION OF THE WORK. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE CHARACTER, QUANTITY AND QUALITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES TO BE ENCOUNTERED. ANY INACCURACIES OR DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS MUST BE BOUGHT TO THE OWNER'S ATTENTION IN ORDER TO CLARIFY THE EXACT NATURE OF THE WORK TO BE PERFORMED PRIOR TO THE COMMENCEMENT OF ANY WORK.

43. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING ROADS AND UTILITIES WHICH OCCURS AS A RESULT OF THE PROJECT CONSTRUCTION WITHIN OR CONTIGUOUS TO THE EXISTING RIGHT-OF-WAY.

44. ALL STREET CUT AND PATCH WORK IN PUBLIC RIGHT-OF-WAY REQUIRED FOR UTILITIES INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CITY, COUNTY, AND/OR APPROPRIATE GOVERNING AGENCY STANDARDS AND SPECIFICATIONS. REFER TO THE TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS MANUAL.

45. THE APPROVAL OF THIS PLAN SHALL IN NO WAY GRANT PERMISSION FOR THE CONTRACTOR TO TRESPASS ON OFF-SITE PROPERTIES.

46. THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF COMPLYING WITH OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.

47. THESE PLANS MAKE NO REPRESENTATION AS TO THE SUBSURFACE CONDITIONS AND THE PRESENCE OF SUBSURFACE WATER OR THE NEED FOR SUBSURFACE DRAINAGE FACILITIES.

48. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING ALL NECESSARY INSPECTIONS.

49. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

50. ALL FINISHED GRADING, SEEDING, SODDING OR PAVING SHALL BE DONE IN SUCH A MANNER TO PRECLUDE THE PONDING OF WATER.

THE ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS. METHODS, TECHNIQUES. SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SCHEDULES OR FAILURE TO CARRY OUT THE WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.

52. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIGGING OF TEST HOLES PRIOR TO BEGINNING OF ANY CONSTRUCTION ON THE PROJECT. IF CONFLICTS ARE DISCOVERED AS A RESULT OF TEST HOLE FINDINGS. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.

53. EXCAVATION SUPPORT SYSTEMS SHALL CONFORM TO THE PROVISIONS OF OSHA CONSTRUCTION STANDARD 29 CFR PART 1926 SUBPART P, OR CURRENT EDITION.

54. AT LOCATIONS WHERE THE FINAL SURFACE COURSE OF ASPHALT PAVEMENT IS TO BE FEATHERED INTO THE EXISTING SURFACE COURSE, THE EXISTING SURFACE COURSE IS TO BE SCABBLED TO A MINIMUM DEPTH OF 1" AND A TACK COAT APPLIED PRIOR TO FINAL PAVING TO INSURE A SMOOTH. WELL BONDED JOINT.

55. ANY NEW PAVEMENT OPENED TO TRAFFIC SHALL RECEIVE A TACK COAT PRIOR TO PLACEMENT OF ANY OVERLYING ASPHALT COURSE.

56. ALL SIDEWALKS TO BE 4" THICK CONCRETE UNLESS OTHERWISE SHOWN ON THE PLAN.

57. ALL DEMOLITION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE APPROPRIATE GOVERNING AGENCY.

58. ALL APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING DEMOLITION.

59. ITEMS SHOWN TO BE RELOCATED SHALL BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR UNTIL SUCH TIME AS THEY CAN BE PLACED IN THEIR NEW LOCATION. CONTRACTOR SHALL VERIFY THESE ITEMS WITH THE OWNER, PRIOR TO CONSTRUCTION.

60. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD ELECTRICAL, TELEPHONE AND CABLE TV LINES AND REMOVAL OF UTILITY POLES, PEDESTALS AND TRANSFORMERS WITH UTILITY COMPANIES AND WITH DEVELOPER PRIOR TO DEMOLITION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS AND/OR RECONSTRUCTION OF ALL UTILITY COVER (MANHOLE FRAMES AND COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.

62. THE CONTRACTOR MUST HAVE THE APPROVED CONSTRUCTION DRAWINGS IN POSSESSION PRIOR TO THE START OF CONSTRUCTION. AT LEAST ONE (1) COPY OF THE APPROVED PLANS, WITH REVISIONS, MUST BE KEPT ON-SITE AT ALL TIMES.

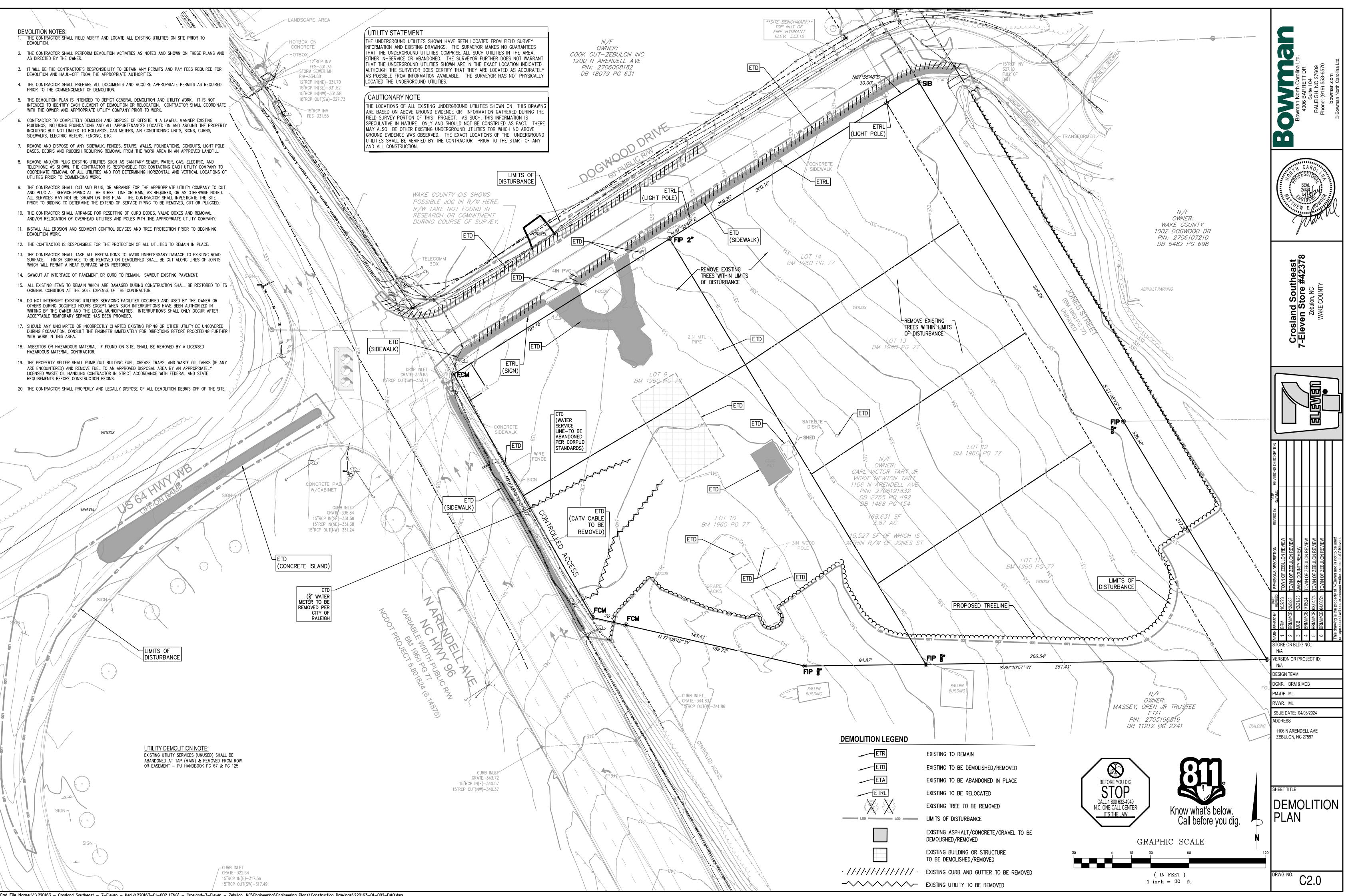
63. ALL HANDICAP RAMPS SHALL BE BUILT IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE APPROPRIATE GOVERNING AGENCY STANDARDS, NCDOT STANDARDS, AND CURRENT ADA REQUIREMENTS.

ARE NOT ONLY 100% COMPLETE, BUT ALSO THAT 100% OF THE DRAINAGE AREA TO EACH FACILITY IS PERMANENTLY STABILIZED. SEED AND MULCH DOES NOT CONSTITUTE STABILIZATION IN TERMS OF THE CONTRACTOR MAINTENANCE OF THE STORM DRAIN, STORMWATER MANAGEMENT, AND WATER QUALITY FACILITIES. ALL STORM DRAIN, STORMWATER MANAGEMENT AND WATER QUALITY FACILITIES SHALL BE TURNED OVER TO THE OWNER COMPLETELY CLEAN AND FREE FROM ANY CONSTRUCTION RELATED SEDIMENT OR DEBRIS.

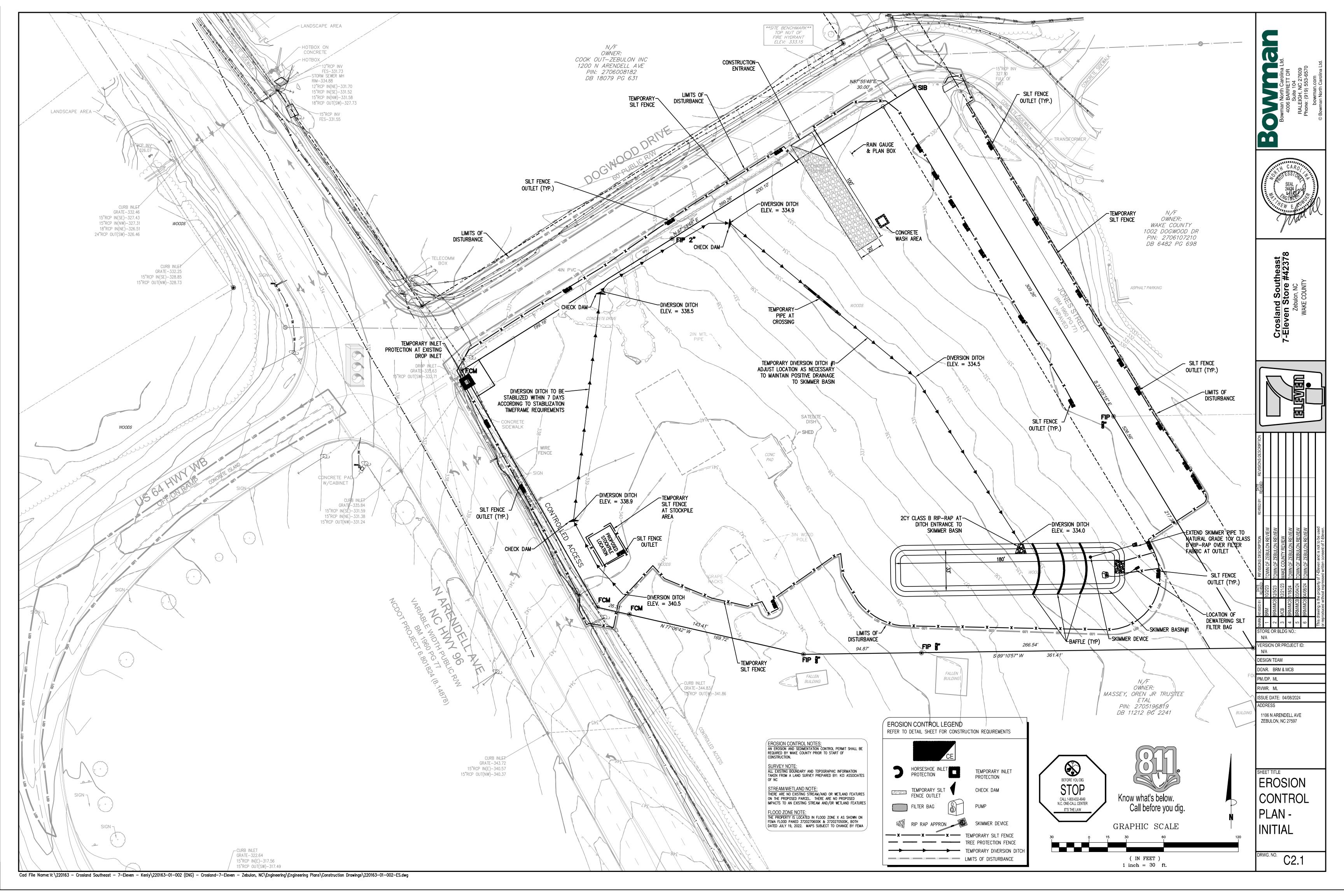
65. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL ADA ACCESSIBLE SIDEWALKS MAINTAIN SLOPES NOT TO EXCEED 5% LONGITUDINALLY AND 2% CROSS SLOPES. SLOPES AT ACCESSIBLE PARKING SPACES AND ACCESS AISLE SHALL BE A MAXIMUM OF 2%, AND THE MANEUVERING CLEARANCE AT EXTERIOR ENTRANCES SHALL HAVE A MAXIMUM SLOPE OF 2%.

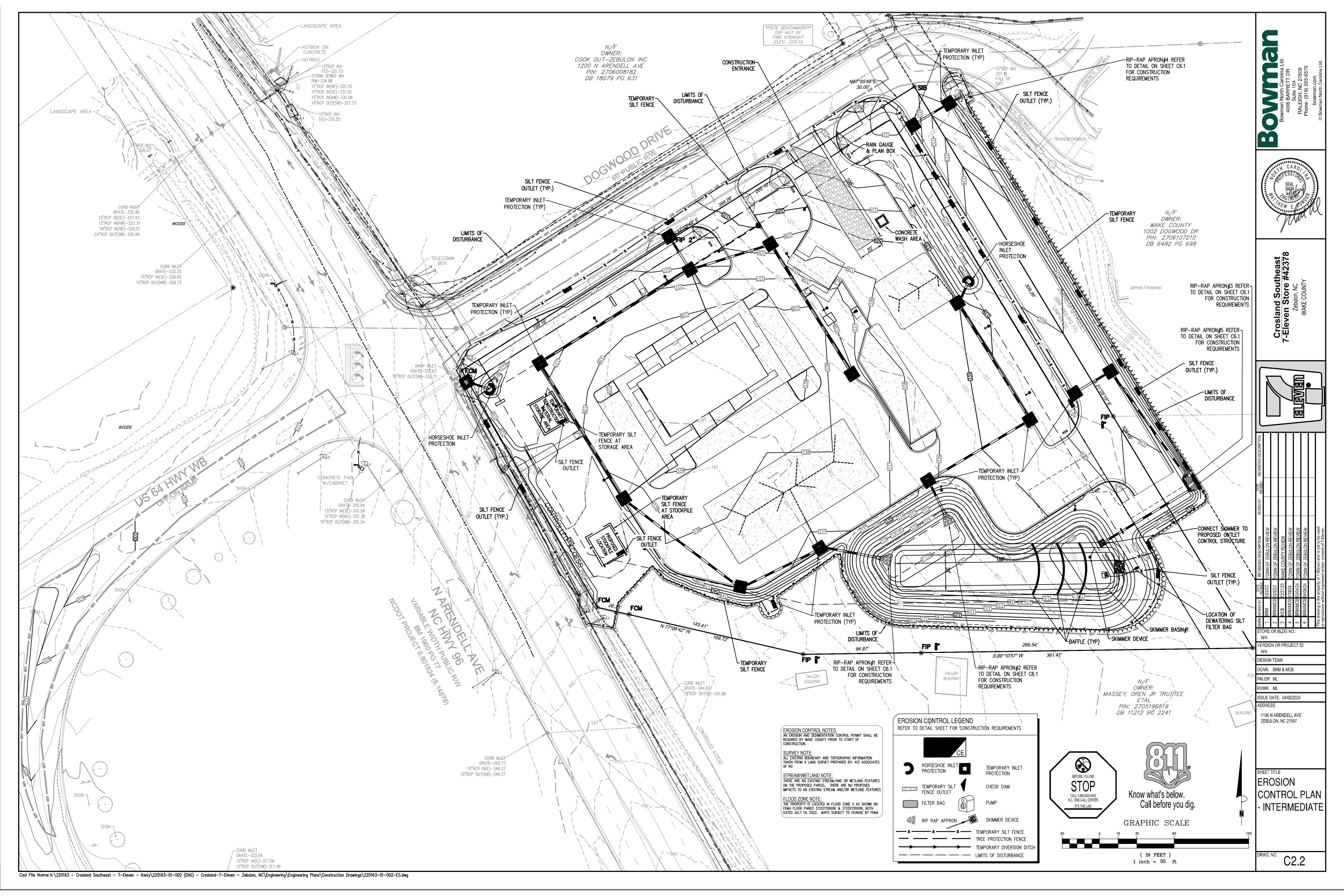
66. DURING CONSTRUCTION, NO TEMPORARY CONNECTIONS TO FIRE HYDRANTS MAY BE MADE WITHOUT THE EXPRESS AUTHORIZATION OF THE UTILITY OWNFR.

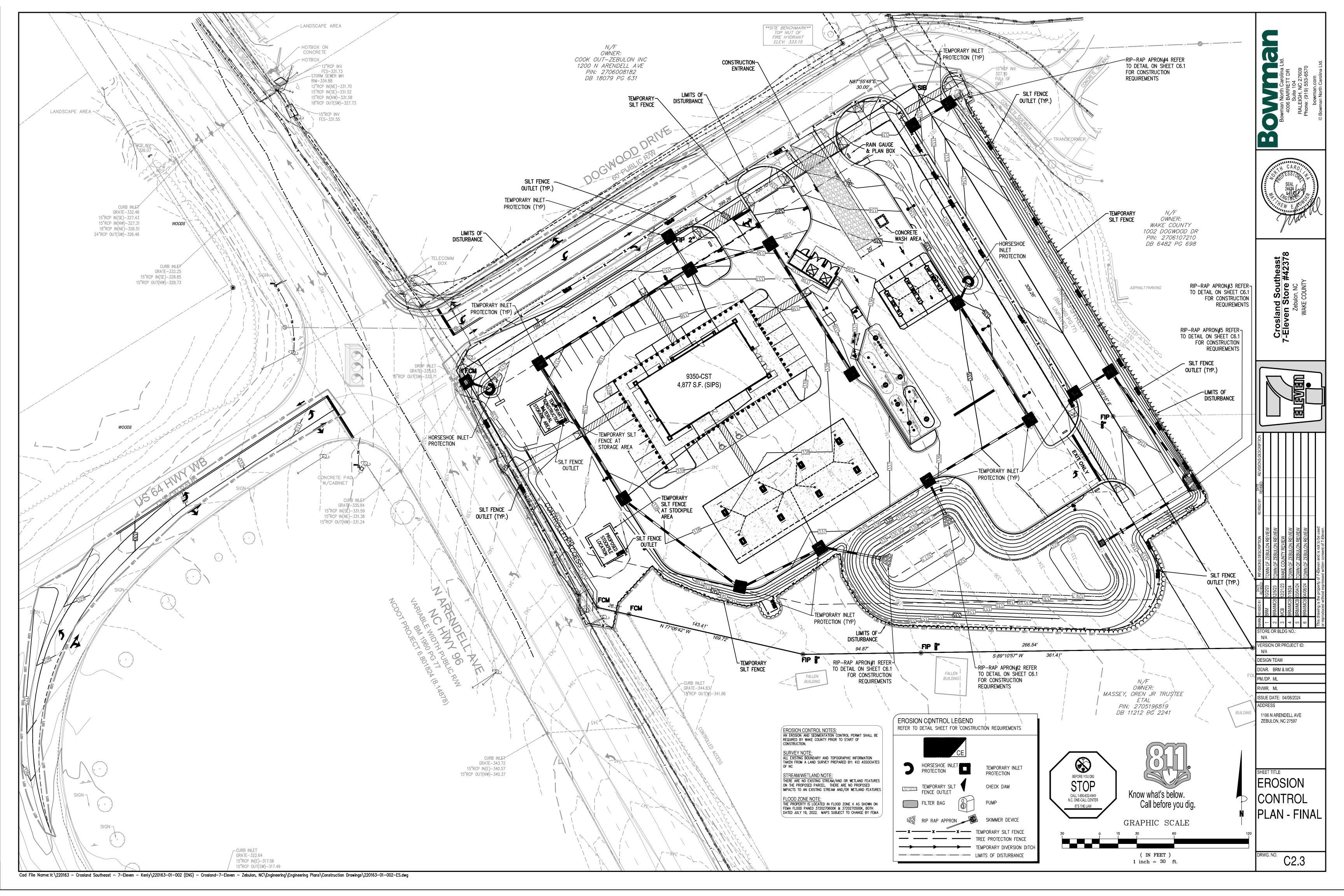
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GENERAL NOTES	



Cad File Name: V: \220163 - Crosland Southeast - 7-Eleven - Kenly \220163-01-002 (ENG) - Crosland-7-Eleven - Zebulon, NC \Engineering \Engineering \Engineering \Construction Drawings \220163-01-002-DMO.dwg







EROSION CONTROL NOTES REFER TO GENERAL NOTES SHEET FOR ADDITIONAL EROSION CONTROL REQUIREMENTS.

- REFER TO DETAIL SHEETS FOR CONSTRUCTION DETAILS OF THE PROPOSED EROSION CONTROL
- MEASURES TO BE USED IN THE DEVELOPMENT OF THIS SITE. REFER TO DETAIL SHEETS FOR TEMPORARY AND PERMANENT SEEDING SCHEDULES FOR PROVIDING GROUND COVER THE FOR THE DEVELOPMENT.

BASIN NOTES:

SKIMMER BASIN DESIGN BASED ON 3 DAYS TO DRAIN.

BASIN AND DIVERSIONS SHALL BE SEEDED, MULCHED AND ANCHORED/LINED AND PINNED UPON INSTALLATION OF MEASURES.

NOTE TO CONTRACTOR:

EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO THE BEGINNING OF DEMOLITION & TREE REMOVAL

NOTE TO CONTRACTOR:

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE EROSION CONTROL INSPECTOR OF THE LOCATION OF ANY OFF-SITE BORROW SOURCE OR OFF-SITE WASTE MATERIAL DISPOSAL SITE. OFF-SITE DISTURBANCES COUNT TOWARDS THE OVERALL PROJECT DISTURBED AREA AND MUST BE COVERED BY THE PERMIT FOR THIS PROJECT AND/OR THE PERMIT FROM ANOTHER ACTIVE NCDEQ PERMITTED SITE THAT IS APPROPRIATE FOR THE INTENDED USE (I.E. APPLICABLE MINING REQUIREMENTS). NO OFF-SITE ACTIVITIES SHALL OCCUR UNTIL THE PERMIT FOR THIS PROJECT HAS BEEN MODIFIED TO INCLUDE THE AFFECTED AREAS OR IT HAS BEEN VERIFIED WITH THE EROSION CONTROL INSPECTOR THAT THE OFF-SITE AREAS ARE COVERED UNDER ACTIVE APPLICABLE NCDEQ PERMITS.

EROSION CONTROL NOTES:

1. TOTAL AREA DISTURBED = 4.30 ACRES

- TOTAL SITE AREA = 3.40 ACRES WEDOWEE SANDY LOAM & URBAN LAND SOIL TYPE =
- 2. 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 NCDEQ EROSION AND SEDIMENT CONTROL HANDBOOK
- 3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS.
- 4. CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
- 5. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
- 6. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 7. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCDEQ EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- 8. 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. A REVISED PLAN SHOWING OFF-SITE IMPACTS SHOULD BE SUBMITTED AND APPROVED PRIOR TO ANY OFF-SITE GRADING. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.
- 9. 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 NCDEQ FOR APPROVAL. 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.
- 10. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RE-EEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- 11. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE NCDEQ SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
- 12. WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
- 13. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREA. SIX INCHES OF STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
- 14. ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
- 15. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
- 16. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS COMPLETED.
- 17. DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
- 18. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS. OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

EROSION CONTROL NARRATIVE:

7-ELEVEN, TOWN OF ZEBULON, WAKE COUNTY, NC

CONTRACTOR WILL FIRST INSTALL THE CONSTRUCTION ENTRANCE. THE CONTRACTOR SHALL THEN MOBILIZE ON SITE AND INSTALL THE TEMPORARY EROSION CONTROL DEVICES INCLUDING SILT FENCE. INLET PROTECTION, SKIMMER BASINS, AND OTHER DEVICES IN ACCORDANCE WITH THE PLANS (CLEARING ONLY AS NECESSARY TO INSTALL THESE ITEMS). BEGIN DEMOLITION, CLEARING AND SITE GRADING OPERATIONS. STABILIZATION OF EARTHEN STRUCTURES IS REQUIRED IMMEDIATELY AFTER INSTALLATION. THE ON-SITE STORM SEWER SYSTEM CAN NOW BE INSTALLED. IMMEDIATELY AFTER AN INLET IS INSTALLED, INLET PROTECTION SHALL BE PROPERLY INSTALLED ON THE STRUCTURE. THE ON-SITE SANITARY SEWER AND WATER SYSTEMS MAY ALSO BE INSTALLED ONCE THE SITE IS BROUGHT UP TO GRADE. THE SITE PAD WILL BE PREPARED FOR THE PROPOSED BUILDING. THE ROUGH GRADE WILL THEN BE ESTABLISHED FOR THE SITE. INSTALLATION OF CURB AND GUTTER WILL THEN BE PERFORMED. BASE STONE WILL THEN BE PLACED AND FINE GRADED. ALL DISTURBED AREAS WILL BE DRESSED AND SEEDED. REMOVE ALL INLET PROTECTION FROM STORM STRUCTURES WHEN PAVING IS TO BEGIN. PAVING AND STRIPING WILL THEN BE COMPLETED. FINALIZE STORMWATER WETLAND STRUCTURE AND DISCHARGE PIPES ONCE UPSTREAM AREAS HAVE BEEN STABILIZED (REMOVE ACCUMULATED SEDIMENT). ALL LANDSCAPING WILL BE COMPLETED. THE ON-SITE STORM SEWER SYSTEM SHALL BE CLEANED OF ANY ACCUMULATED SEDIMENT WHICH SHALL BE DISPOSED OF IN A LAWFUL MANNER. ALL ACCUMULATED SEDIMENT BEHIND SILT FENCE AND OTHER SEDIMENT DEVICES SHALL BE REMOVED AND DISPOSED OF IN A LAWFUL MANNER. ACCORDING TO THE GROUND STABILIZATION REQUIREMENTS ON THIS SHEET, REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES FROM THE SITE. CONTRACTOR SHALL MINIMIZE THE LENGTH OF TIME BETWEEN INITIAL LAND DISTURBANCE AND FINAL VEGETATION STABILIZATION OF THE SITE.

THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE INTENDED TO TRAP ANY STORMWATER RUNOFF FROM THE CONSTRUCTION SITE AND DETAIN IT LONG ENOUGH FOR SEDIMENT AND POLLUTANTS TO SETTLE OUT OF THE STORMWATER BEFORE DISCHARGE. VARIOUS EROSION CONTROL MEASURES ARE USED TO PREVENT POLLUTANT-LADEN STORMWATER RUNOFF FROM FLOWING ONTO ADJACENT PROPERTIES.

<u>GENERAL NOTES:</u>

- 1. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC. THAT MAY BE REQUIRED.
- 2. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
- 3. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- 4. CONTRACTOR SHALL MAINTAIN AN "AS BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
- IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER.
- THE CONTRACTOR MUST, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIM, HIS EMPLOYEES OR HIS WORK. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.

TOCKPILE DESIGN CRITERIA:

- A 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).
- STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES. STOCKPILE HEIGHT SHALL NOT EXCEED 35-FEET. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
- APPROVED BMP'S SHALL BE SHOWN ON A PLAN TO CONTROL ANY POTENTIAL SEDIMENT LOSS FROM A STOCKPILE. STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE
- ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP. OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL, PRIOR TO DISPOSAL FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).

STOCKPILE MAINTENANCE REQUIREMENTS:

- SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
- IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.). THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE
- THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
- ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

Required Wake County Basin Removal Sequence

- 1. Schedule a site meeting with the Environmental Consultant to determine if a basin can be removed. Install silt fencing or other temporary erosion control measures as needed prior to removal of the basin.
- 2. Contact NCDEQ Raleigh Regional Office (919) 791-4200 to determine the Division of Energy, Mineral and Land Resources contact person to receive dewatering notifications. At least 10 days prior to beginning dewatering activity, send Email to NCDEQ-DEMLR contact person and copy Environmental Consultant that met you onsite. The email should include: E&SC Jurisdiction: Wake County, Wake County Project: Name, Number, and Location (city/town), Environmental Consultant Name, and address the following: a)Reason for conversion, b)Basin #, c)Dewatering method, and d) all other necessary info from Part II, Section G, Item 4 of the NCG01. keep email for your NPDES monitoring documenta
- 3. After receiving positive confirmation from NCDEQ-DEMLR that you may remove the basin OR on > Day 11, whichever is sooner. Remove Basin(s) and associated temporary diversion ditches. If pipes need to be extended, perform this operation at this time. Fine grade area in preparation for
- 4. Perform seedbed preparation, seed, mulch and anchor any resulting bare areas immediately.
- 5. Install velocity dissipators and/or level spreaders as required on the Erosion Control Plan.
- 6. When site is fully stabilized, call Environmental Consultant for approval of removing remaining temporary erosion control measures and advice on when site can be issued a Certificate of Completion. Note: A meeting should also be scheduled with the Environmental Consultant to determine when a basin may be converted for stormwater use. Some municipalities may also require this.

SEDIMENT & EROSION CONTROL NOTES:

- THE EROSION AND SEDIMENTATION CONTROL MEASURES (BMPS) WERE DESIGNED USING THE NORTH CAROLINA NCDEQ REQUIREMENTS AND SHALL BE INSTALLED ACCORDINGLY. CONTRACTOR SHALL PERFORM ALL ACTIVITIES IN STRICT COMPLIANCE WITH THE NORTH CAROLINA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (GENERAL PERMIT).
- REFER TO THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS FOR EROSION CONTROL DETAILS AND DESIGN TABLES FOR SEDIMENT BASINS, DIVERSION DITCHES, AND CULVERTS, SLOPE DRAINS, RIP-RAP APRONS AND OTHER EROSION CONTROL MEASURES.
- EXISTING BOUNDARIES, TOPOGRAPHY, 100-YR FLOODPLAIN, UTILITY AND ROAD INFORMATION TAKEN FROM AN EXISTING CONDITIONS SURVEY. ALL EXISTING INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR.
- 4. SEE THE LANDSCAPE PLAN FOR LOCATIONS OF PROPOSED PLANTINGS AND FINAL STABILIZATION.
- 5. TEMPORARY DIVERSION DITCHES AND BERMS SHALL BE MAINTAINED AS THE SITE IS BROUGHT TO GRADE.
- 6. DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTORS SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- 7. SEE THE GENERAL NOTES SHEET AND THE GRADING AND DRAINAGE PLAN FOR OTHER NOTES REGARDING GRADING ACTIVITIES.
- 8. SEE SITE PLAN, GRADING AND DRAINAGE PLAN, UTILITY PLAN, PLANTING PLAN AND OTHER PLAN SHEETS FOR DETAILED DESIGN INFORMATION OF PERMANENT SITE APPURTENANCES SHOWN ON THIS
- 9. WHERE THE LIMITS OF DISTURBANCE AND TEMPORARY FENCE (SF, SF-PF, OR PF) LIMITS ARE ADJACENT, THE TEMPORARY FENCE LINE IS THE LIMITS OF DISTURBANCE. THE LINE TYPES ARE SHOWN SEPARATED FOR ILLUSTRATIVE PURPOSES ONLY.
- 10. CONTRACTOR SHALL NOT DISTURB ANY EXISTING VEGETATIVE GROUND COVER OR TREES OUTSIDE OF THE LIMITS OF DISTURBANCE OR WITHIN ANY REQUIRED BUFFER LIMITS UNLESS OTHERWISE NOTED OR ILLUSTRATED.
- 11. PROVIDE CONTROLS OF POLLUTANTS, INCLUDING, BUT NOT LIMITED TO DUST CONTROL, DE-WATERING, SOLID WASTE DISPOSAL, AND HAZARDOUS MATERIALS.
- 12. CLEAR ONLY AS REQUIRED TO INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES. MASS CLEARING AND GRUBBING CAN BEGIN ONLY AFTER ALL DOWNSTREAM MEASURES HAVE BEEN INSTALLED.
- 13. USE ROCK OR WASHED STONE TO BRING CONSTRUCTION EXIT TO GRADE. IMPLEMENT WHEEL WASHES AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION.
- 14. DIVERT STORM WATER RUNOFF OFF THE FACE OF THE SEDIMENT BASIN SLOPES USING DIVERSION DITCHES AND SLOPE DRAINS. CONTRACTOR SHALL MAINTAIN AND RELOCATE DIVERSION DITCHES AND SLOPES DRAINS TO ENSURE STORM WATER RUNOFF DOES NOT ERODE THE FACE OF FINAL SLOPES.
- 15. MAINTAIN POSITIVE FLOW TO THE SEDIMENT BASINS THROUGHOUT ALL PHASES OF CONSTRUCTION. PLACE EXCAVATED SOILS ALONG DOWNSTREAM EDGE OF THE DIVERSION DITCHES TO PROVIDE ADDITIONAL CAPACITY.
- 16. REFER TO THE GRADING AND DRAINAGE PLAN FOR FINAL SITE AND PAVEMENT GRADES AND ELEVATIONS OF THE PROPOSED STORM SEWER SYSTEMS.
- 17. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE APPROVED EROSION AND SEDIMENT CONTROL DRAWINGS DURING CONSTRUCTION OPERATIONS.
- 18. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- 19. ALL WORK SHALL BE CONFINED TO PERMIT LIMITS SHOWN ON PLANS. UNLESS OTHERWISE NOTED, THE SITE PLAN PROPERTY LIMITS SHALL BE CONSIDERED THE PERMIT LIMITS.
- 20. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE.
- 21. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
- 22. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION CONTROL LAWS.
- 23. ALL TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND GROUND COVER IS ESTABLISHED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.
- 24. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE.

25. CONSTRUCTION LIMITS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF NCDEQ INSPECTOR.

NORTH CAROLINA CONSTRUCTION GENERAL PERMIT NOTE:

As of April 1, 2019, all new construction activities are required to complete and submit an electronic Notice of Intent (NOI) form requesting a Certificate of Coverage (COC) under the NCG010000 Construction Stormwater General Permit. This form MUST be submitted prior to the commencement of any land disturbing activity on the above named project. The NOI form may be accessed at deq.nc.gov/NCG01. Please direct questions about the NOI form to Paul Clark at Paul.clark@ncdenr.gov.

After you submit a complete and correct NOI Form, a COC will be emailed to you within three business days. Initially, DEMLR will not charge a fee for coverage under the NCG01 permit. However, on or after May 1, 2019, a \$100 fee will be charged annually. This fee is to be sent to the DEMLR Stormwater Central Office staff in Raleigh.

Title 15A NCAC 4B .0118(a) and the NCG01 permit require that the following documentation be kept on file at the job site:

- The approved E&SC plan as well as any approved deviation. The NCG01 permit and the COC, once it is received.
- Records of inspections made during the previous 30 days.
- 4. The Certificate of Approval

NOTIFICATION OF COMBINED SELF-MONITORING AND SELF-INSPECTION FORM:

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010.

TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, DWQ AND DEMLR DEVELOPED A COMBINED FORM. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE FORM CAN BE ACCESSED AT: <u>HTTP://PORTAL.NCDENR.ORG/WEB/LR/EROSION</u>

IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CALL THE APPLICABLE NCDENR REGIONAL OFFICE: (RALEIGH: 919–791–4200) (FAYETTEVILLE: 910–433–3300) (WILMINGTON: 910–796–7215) (WASHINGTON: 252-946-6481) (WINSTON-SALEM: 336-771-5000) (MOORESVILLE: 704-663-1699) (ASHEVILLE: 828–296–4500).

TREE PROTECTION NOTES:

- 1. 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.
- 2. 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.
- 3. 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.
- 4. 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 AREAS.
- 5. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING OR CONSTRUCTION BEGINS AND IS NOT TO BE REMOVED UNTIL AFTER CONSTRUCTION.
- 6. TREE PROTECTION FENCE IS TO BE LOCATED 1 FOOT PER TREE DIAMETER INCH AWAY FROM THE TREE.

STABILIZATION TIMEFRAME							
SITE AREA DESCRIPTION							
BASIN & TEMPORARY DIVERSION DITCHES	IMMEDIATELY	NONE					
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE					
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE					
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED					
SOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50FT IN LENGTH					
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES					

GROUND COVER REQUIREMENTS:

HE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, ACCORDING TO THE FOLLOWING CHART, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES. OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PROVISIONS FOR PERMANENT GROUNDCOVER SUFFICIENT TO RETAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS ACCORDING TO THE FOLLOWING CHART FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

> (CONSTRUCTION NOTE LL MATERIALS AND CONSTRUCTION METHODS PER THE LATEST

WAKE COUNTY CONSTRUCTION SEQUENCE:

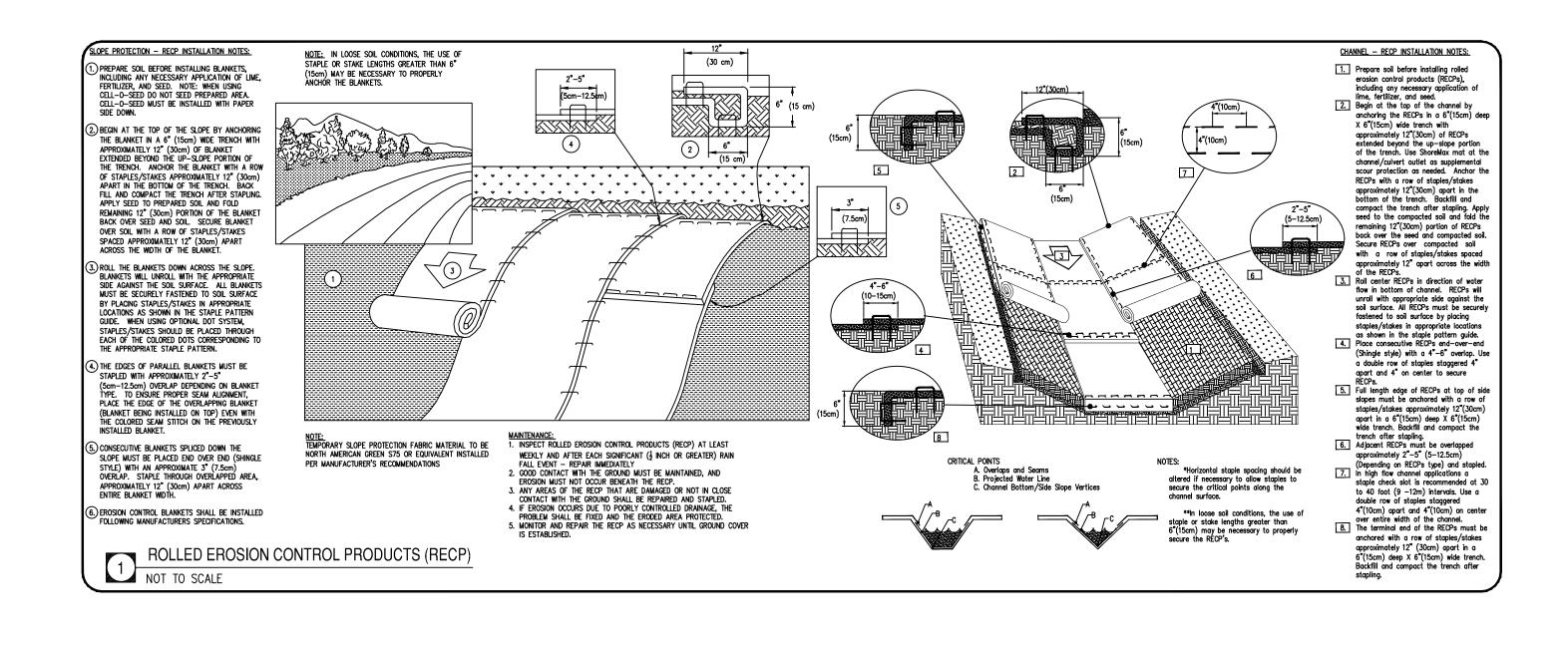
SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WATERSHED MANAGER, KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769. OBTAIN A LAND-DISTURBING PERMIT. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SKIMMER

EDITION OF WAKE COUNTY SPECIFICATIONS AND STANDARD DETAILS

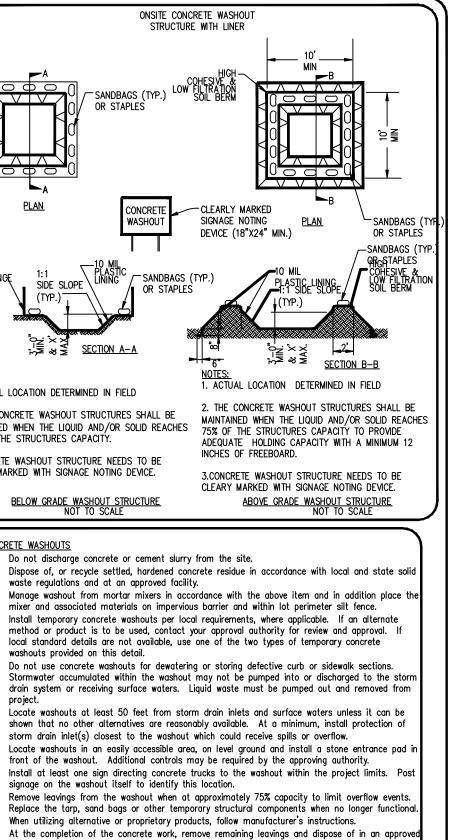
- BASINS, WAKE COUNTY SKIMMER BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS. BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- CALL KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769 FOR AN ONSITE INSPECTION BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- INSTALL STORM SEWER, IF SHOWN, AND PROTECT CATCH BASIN CURB INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, PROTECT AREA DRAIN/YARD INLETS WITH STANDARD INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION. PAVING. DITCH LININGS, ETC. PREPARE A SEEDBED, FERTILIZE, LIME, SEED, MULCH AND ASPHALT TACK ALL DENUDED AREAS WITHIN NPDES STABILIZATION TIMEFRAME OF COMPLETION OF ANY PHASE OF CONSTRUCTION OR STOPPAGE OF WORK ON ANY PHASE OF CONSTRUCTION.
- CONTRACTOR TO CONTACT PROJECT ENGINEER BETWEEN SEDIMENT AND EROSION CONTROL PHASES OF DEVELOPMENT AND FOR THE REMOVAL OR CONVERSION OF SEDIMENT AND EROSION CONTROL MEASURES.
- WAKE COUNTY OR JURISDICTIONAL MUNICIPALITY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769 FOR AN INSPECTION BY THE WATERSHED MANAGER.
- 0. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
- . WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WATERSHED MANAGER, KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769. OBTAIN A CERTIFICATE OF COMPLETION.

			Bowman North Carolina Ltd.	4006 BARRETT DR	BAI FIGH NC 27600	Phone: (919) 553-6570	bowman.com	© Bowman North Carolina Ltd.
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		Crocland Southeast			Zebulon, NC	WAKE COUNTY		
N VEF N DGI PM. RVV ISSI ADI	/A RSIO /A BIGN NR. /DP. VR. UE E DRES	N OI I TEA BRI ML DATE SS	R PR AM M & I :: 04 END		CT I 2024 AVE			This drawing is the property of 7-Eleven and is not to be used or reproduced without expressed written consent of 7-Eleven.
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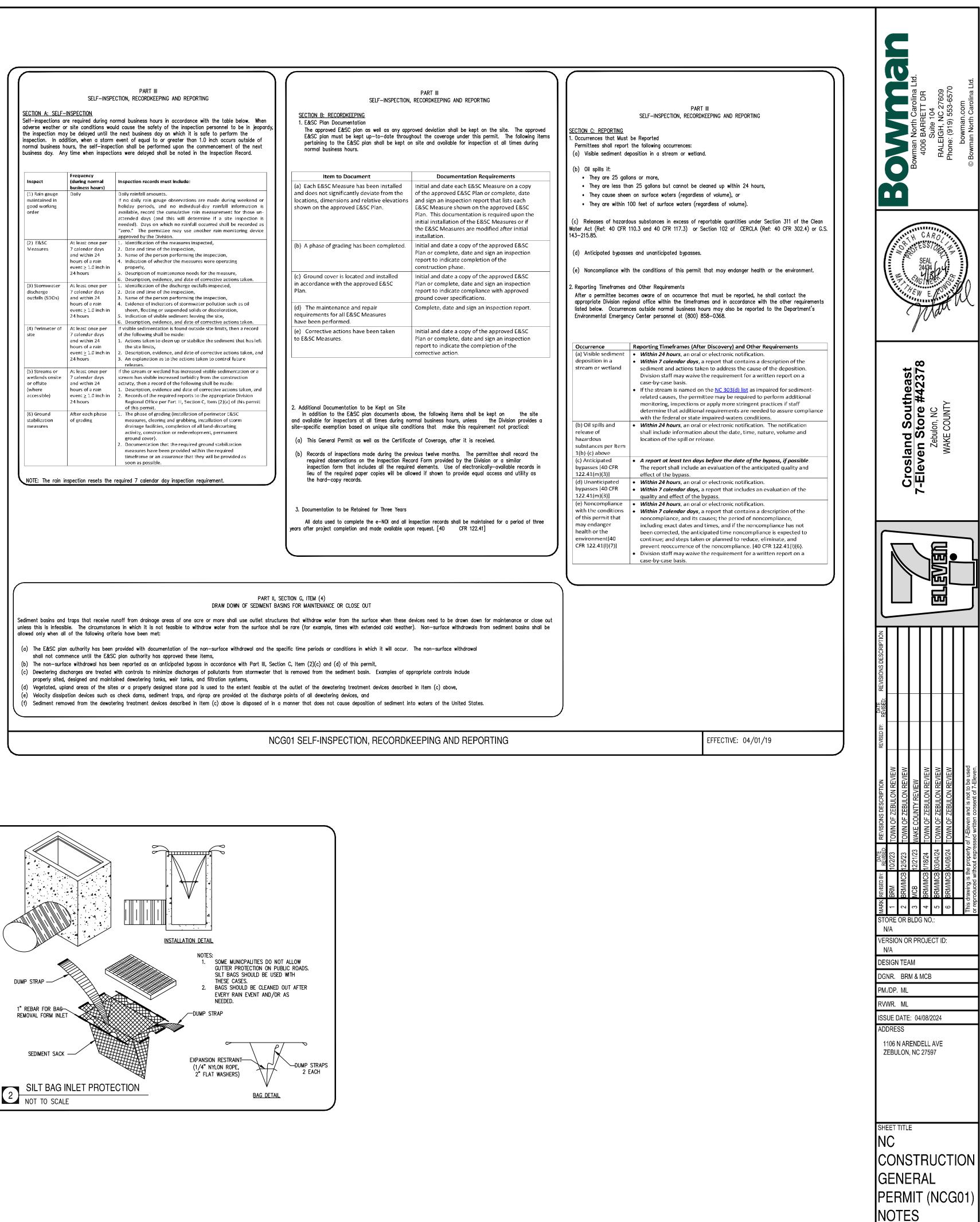
CONSTRUCTION GENERAL PERM Implementing the details and being considered compliant wi Construction General Permit (Erosion and Sediment Control	III specifications on this pl th the Ground Stabilizat Sections E and F, respe plan approved by the d	ACTICES FOR COMPLIANCE WITH THE NCG01 Ian sheet will result in the construction activity ion and Materials Handling sections of the NCG01 ctively). The permittee shall comply with the lelegated authority having jurisdiction. All details y depending on site conditions and the delegated	 EQUIPMENT AND VEHICLE MAINTENANCE Maintain vehicles and equipment to prevent discharge of fluids. Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project. 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 constructed. 	ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER
SECTION E: GROUND STABIL	IZATION		 Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling 	
	Required Ground Stabi	ilization Timeframes	or disposal center that handles these materials.	
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations	LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE	
 (a) Perimeter dikes, swales, ditches, and perimeter slopes 	7	None	 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. 	WASHOUT SIGNAGE NOTING <u>PLAN</u> SANDBA DEVICE (18"X24" MIN.) OR STA
(b) High Quality Water (HQV Zones) 7	None	 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. 	SILT FENGE 1:1 SILT FENGE 1:1 SIDE SLOPE (TYP.) (TYP.) IIII SIDE SLOPE (TYP.) IIII OR STAPLES OR STAPLES
(c) Slopes steeper than 3:1	7		 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. 	
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 	 Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow. Dispose waste off-site at an approved disposal facility. On business days, clean up and dispose of waste in designated waste containers. 	NOTES: 1. ACTUAL LOCATION DETERMINED IN FIELD 2. THE CONCRETE WASHOUT STRUCTURES SHALL
(e) Areas with slopes flatter than 4:1	14	 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed unless there is zero slope 	 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. 	2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY. 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.
stabilization shall be converted longer than 90 calendar days	d to permanent ground after the last land dist render the surface sta	activities, any areas with temporary ground stabilization as soon as practicable but in no case urbing activity. Temporary ground stabilization shall ble against accelerated erosion until permanent	 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. 	BELOW GRADE WASHOUT STRUCTURE NOT TO SCALE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. BELOW GRADE WASHOUT STRUCTURE NOT TO SCALE ABOVE GRADE WASHOUT STRUCTURE NOT TO SCALE
CROUND STABILIZATION SPECIF Stabilize the ground sufficient the table below: Temporary grass seed cover other mulches and tackifier Hydroseeding Rolled erosion control prod without temporary grass se Appropriately applied straw Plastic sheeting	y so that rain will not of ization red with straw or s ucts with or ed or other mulch s s c c c c c c c c c c c c c c c c c	dislodge the soil. Use one of the techniques in Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed	 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 sill 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 foot traffic areas. 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 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 available. 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. 	 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 so waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in addition place 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 for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the stordrain 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 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. Posignage on the washout itself to identify this location.
from the NC DWR List of 2. Apply flocculants at or 3. Apply flocculants at the PAMS/Flocculants and i 4. Provide ponding area fo	are appropriate for the of Approved PAMS/Flocc before the inlets to Ero concentrations specifie n accordance with the r r containment of treate c-proof containers that	ssion and Sediment Control Measures. d in the NC DWR List of Approved manufacturer's instructions. d Stormwater before discharging offsite. are kept under storm-resistant cover or	4. 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.	 Replace the tarp, sand bags or other temporary structural components when no longer function. 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 approdisposal 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 restrictions. Store herbicides, pesticides and rodenticides in their original containers with the label, which list 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. Do not stockpile these materials onsite.
				 HAZARDOUS AND TOXIC WASTE Create designated hazardous waste collection areas on-site. Place hazardous waste containers under cover or in secondary containment. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

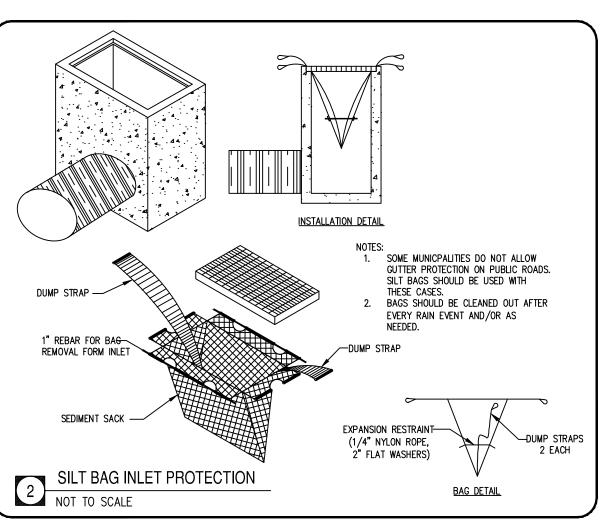


NCG01 GROUND STABILIZATION AND MATERIALS HANDLING



EFFECTIVE: 04/01/19





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GENERAL NOTES: THE CONTRACTOR SHALL EMPLOY ALL NECESSARY BARRICADES, SIGNS, FENCES, FLASHING LIGHTS, FLAGMEN, ETC. FOR MAINTENANCE AND PROTECTION OF TRAFFIC AS REQUIRED BY TOWN OF ZEBULON AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, FOR DETAILS OF TRAFFIC CONTROL STANDARDS AND DEVICES. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION. APPROVAL OF THESE PLANS IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. COORDINATE ALL CURB AND STREET GRADES IN INTERSECTIONS WITH INSPECTOR. NON-STANDARD ITEMS (I.E. PAVERS, IRRIGATION SYSTEMS, ETC.) IN THE RIGHT-OF-WAY REQUIRE A RIGHT-OF-WAY ENCROACHMENT AGREEMENT WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION BEFORE INSTALLATION. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE. EXISTING SITE CONDITIONS, GRADES, CONTOURS, UTILITIES AND OTHER EXISTING FEATURES FROM A SURVEY PREPARED BY KCI ASSOCIATES OF NC. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION "STANDARD DETAILS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND APPLICABLE TOWN OF ZEBULON CODES AND ORDINANCES. THE CONTRACTOR SHALL MAINTAIN A CURRENT EDITION OF THE STATE AND LOCAL CODES, ORDINANCES, STANDARD SPECIFICATION AND STANDARD DETAILS ON THE PROJECT SITE FOR REFERENCE DURING CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND SHALL REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS THE OWNER OR OWNER'S REPRESENTATIVE IMMEDIATELY. CONTRACTOR SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING WITH WORK. . THE CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS FROM PROPOSED FEATURES TO EXISTING FEATURES AS NECESSARY. THE CONTRACTOR SHALL SEAL THE EDGE OF EXISTING ASPHALT PAVEMENT WITH TACK COAT IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS WHERE NEW PAVEMENT JOINS EXISTING PAVEMENT. THE CONTRACTOR SHALL REPAIR, RESURFACE, RECONSTRUCT OR REFURBISH ANY AREAS DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, HIS SUBCONTRACTORS OR SUPPLIERS AT NO ADDITIONAL COST TO THE OWNER. 3. ALL PAVEMENT JOINTS SHALL BE SAW-CUT PRIOR TO PAVING TO PROVIDE A DURABLE AND UNIFORM KX JOINT. . CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF TRUCK DOCKS, EXIT DOORS, SIDEWALKS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS. ALL PAINT STRIPING, PAVEMENT MARKINGS, AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR AS OTHERWISE SPECIFIED. ALL REFERENCED SIGN STANDARDS ARE TAKEN FROM THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". ALL NEW SIGNS SHALL BE MOUNTED ON GALVANIZED POSTS AND IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. . CONTRACTOR SHALL INSTALL ACCESSIBLE RAMPS PER LOCAL MUNICIPALITY AND ADA STANDARDS AT ALL DRIVE AND BUILDING LOCATIONS AS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY THE PUBLIC UTILITIES DEPARTMENTS FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE. 8. PROOF ROLL BUILDING AND ALL PARKING AREAS. NOTIFY OWNER OF ANY UNACCEPTABLE AREAS. . THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES AND STORM DRAINAGE) TO OWNER PRIOR TO COMPLETION OF CONSTRUCTION. WUUUUS Ś NB US 64 HWY W. CONCRETE P Ś \odot PROJECT DEVELOPMENT DATA STREET ADDRESS: 1106 N ARENDELL AVE 2705-19-1832 0069358 RFID DEED BOOK/PAGE: 1465/154 & 2755/492 ZONING DISTRICT: HC-C (HEAVY COMMERCIAL-CONDITIONAL) (ZONING CASE: ORDINANCE 2024-07 - CONDITIONAL ZONING 2023-03) 3.40 AC (3.86 AC - 0.46 AC R/W DEDICATION) SITE AREA: LATITUDE & LONGITUDE: 35°50'11.0"N 78°19'17.4"W 15⁻ INSIDE TOWN LIMITS: YES EXISTING USE: PROPOSED BUILDING USE: 4,877 SF GROSS BUILDING AREA: MINIMUM LOT SIZE: 6000 SF MINIMUM LOT WIDTH: 50 FT MINIMUM STREET SETBACK: 30 FT MINIMUM SIDE SETBACK: 5 F1 MINIMUM REAR SETBACK: 25 FT MAXIMUM LOT COVERAGE: 80% MAXIMUM BUILDING HEIGHT: 50 FT OPEN SPACE REQUIRED: 3% OF DEVELOPMENT AREA 3% OF 3.40 AC = 0.10 AC PARKING REQUIREMENT: TOTAL REQUIRED: 1 FOR EVERY 200 SF 4,877 SF/200 = 25 SPACES PARKING SPACES PROVIDED: 35 PARKING SPACE DIMENSIONS: 10 FT X 19 FT MINIMUM STACKING SPACES REQUIRED: 1 ON EACH SIDE OF OUTERMOST GAS PUMP STACKING SPACE DIMENSIONS: 9 FT X 25 FT MIN DRIVE AISLE: 24 FT ACCESSIBLE SPACES PROVIDED: 2 2 SPACES PROVIDED STREETSCAPE BUFFER: 15 FT WIDTH

WAKE COUNTY GIS SHOWS

R/W TAKE NOT FOUND IN RESEARCH OR COMMITMENT

EXISTING-

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LIC RINN

LAN A

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VACANT (FORMERLY SINGLE FAMILY)

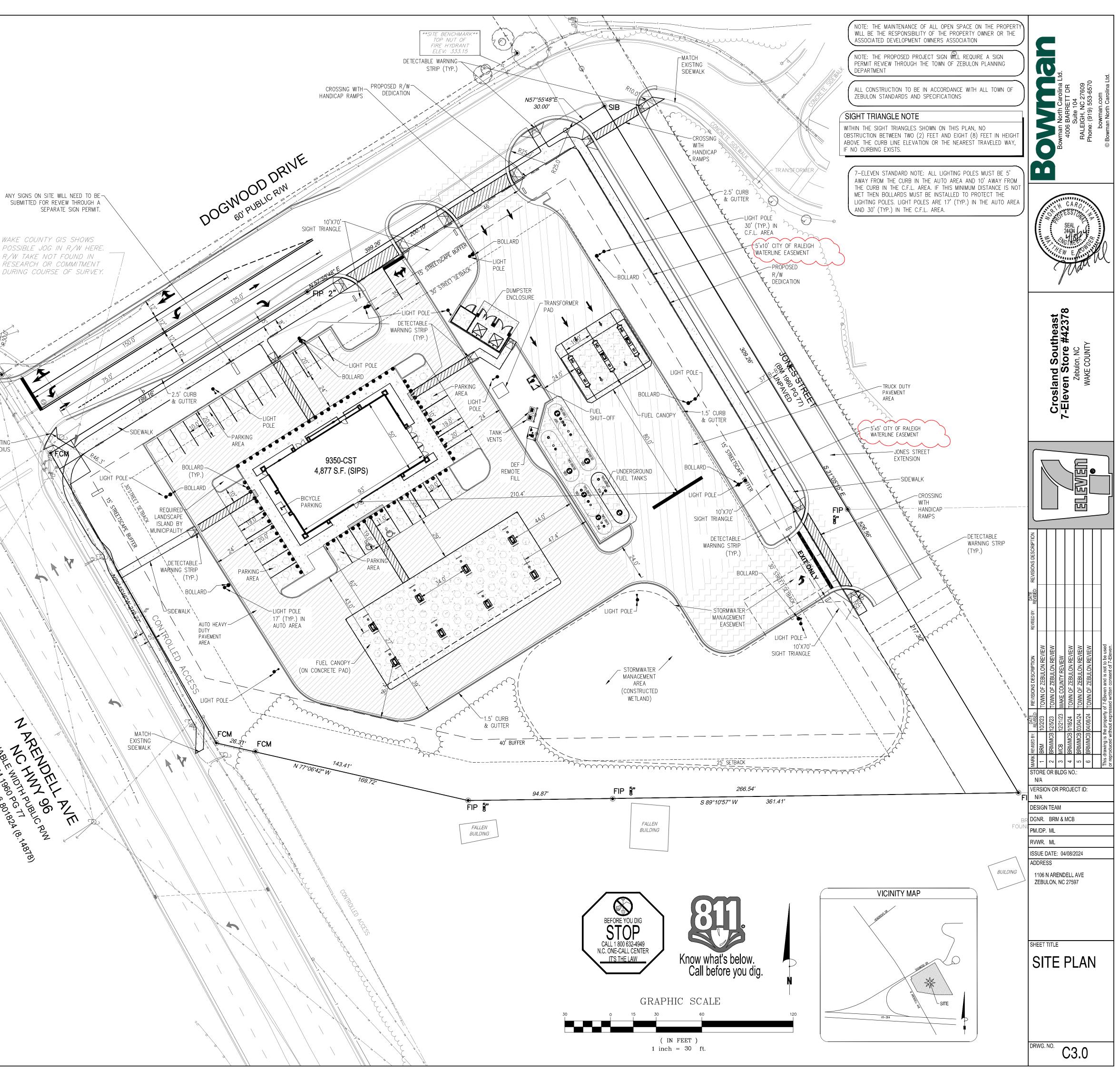
CONVENIENCE STORE WITH GASOLINE SALES

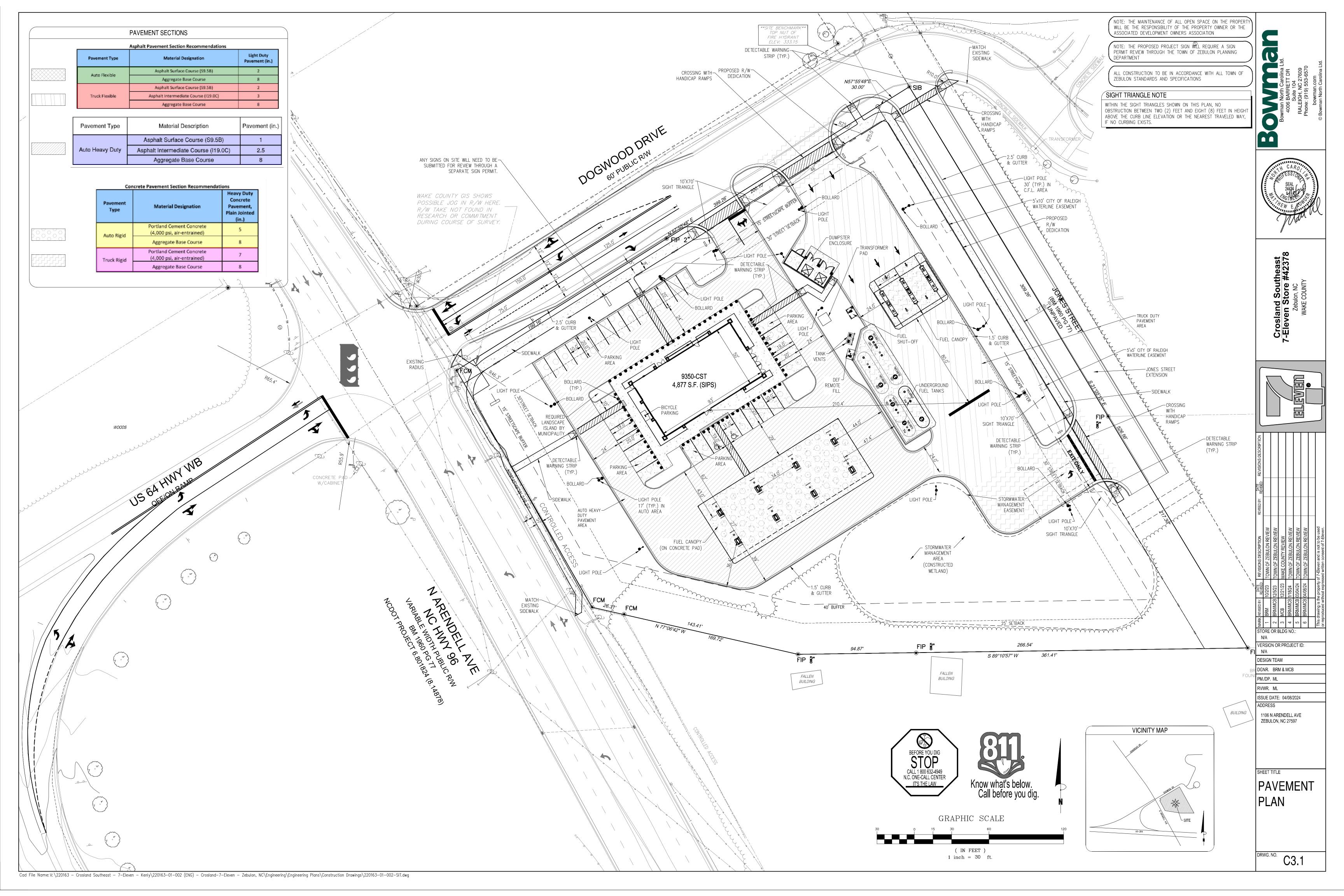
W/CABINET

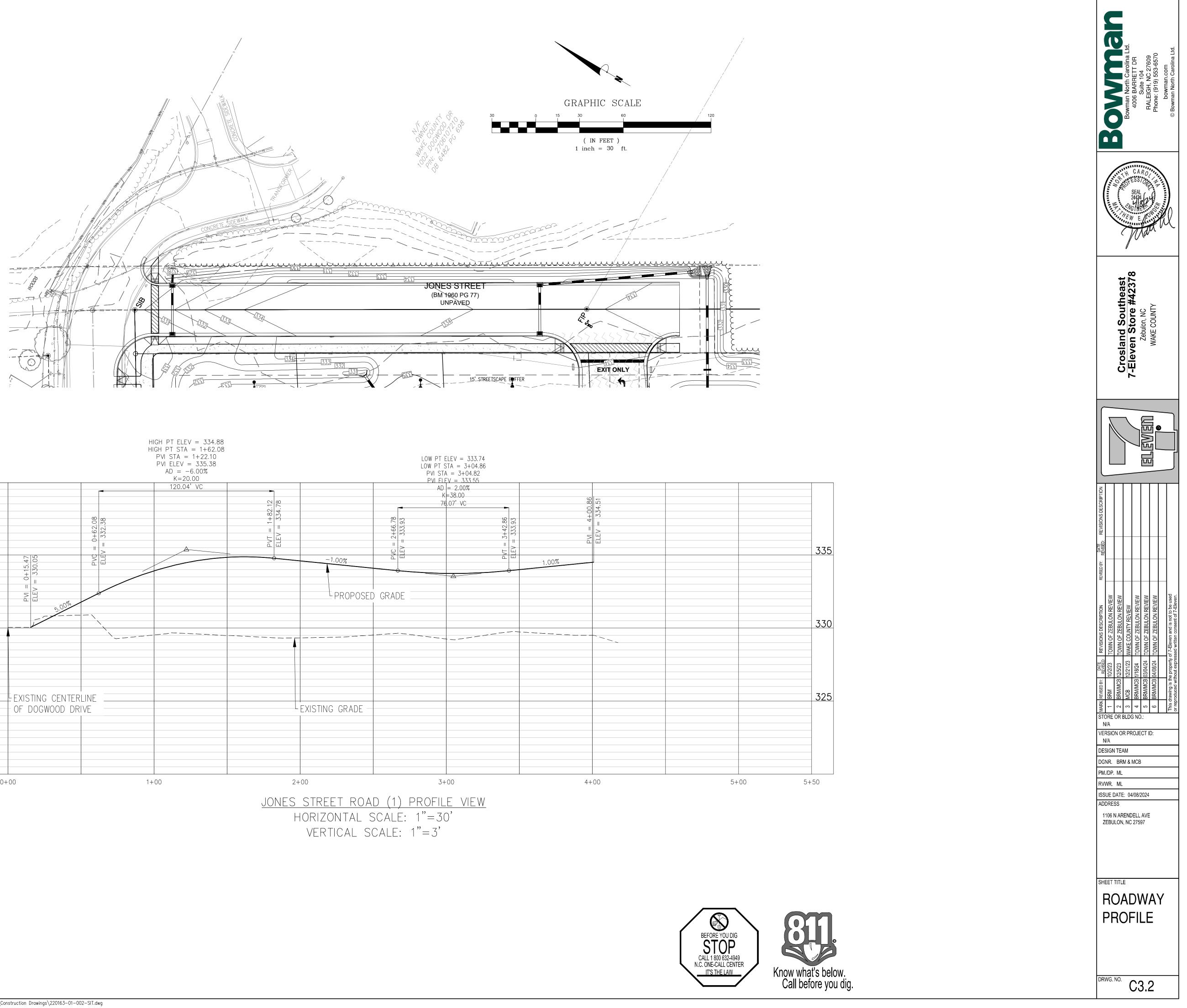
BICYCLE PARKING: 1 PER 20 OFF-STREET PARKING SPACES

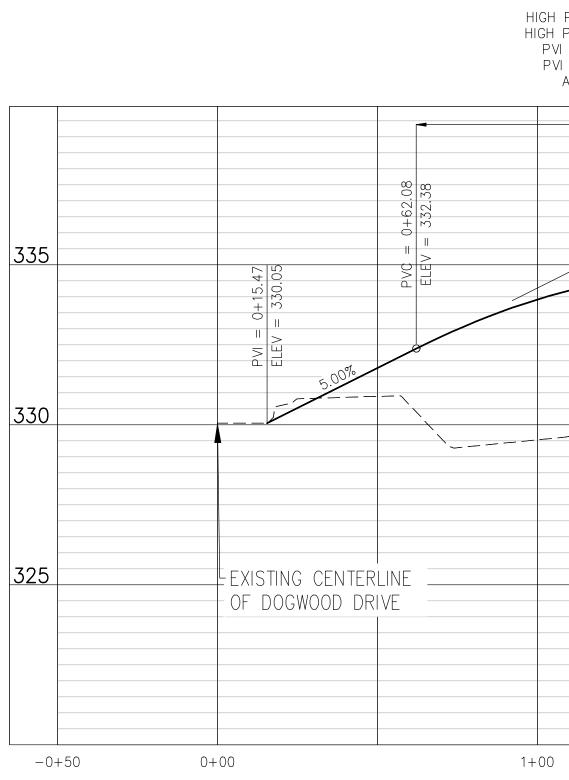
LANDSCAPE BUFFERS: 40FT TYPE D BUFFER ADJACENT TO RESIDENTIAL

Cad File Name: V: \220163 - Crosland Southeast - 7-Eleven - Kenly\220163-01-002 (ENG) - Crosland-7-Eleven - Zebulon, NC\Engineering\Engineering Plans\Construction Drawings\220163-01-002-SIT.dwg



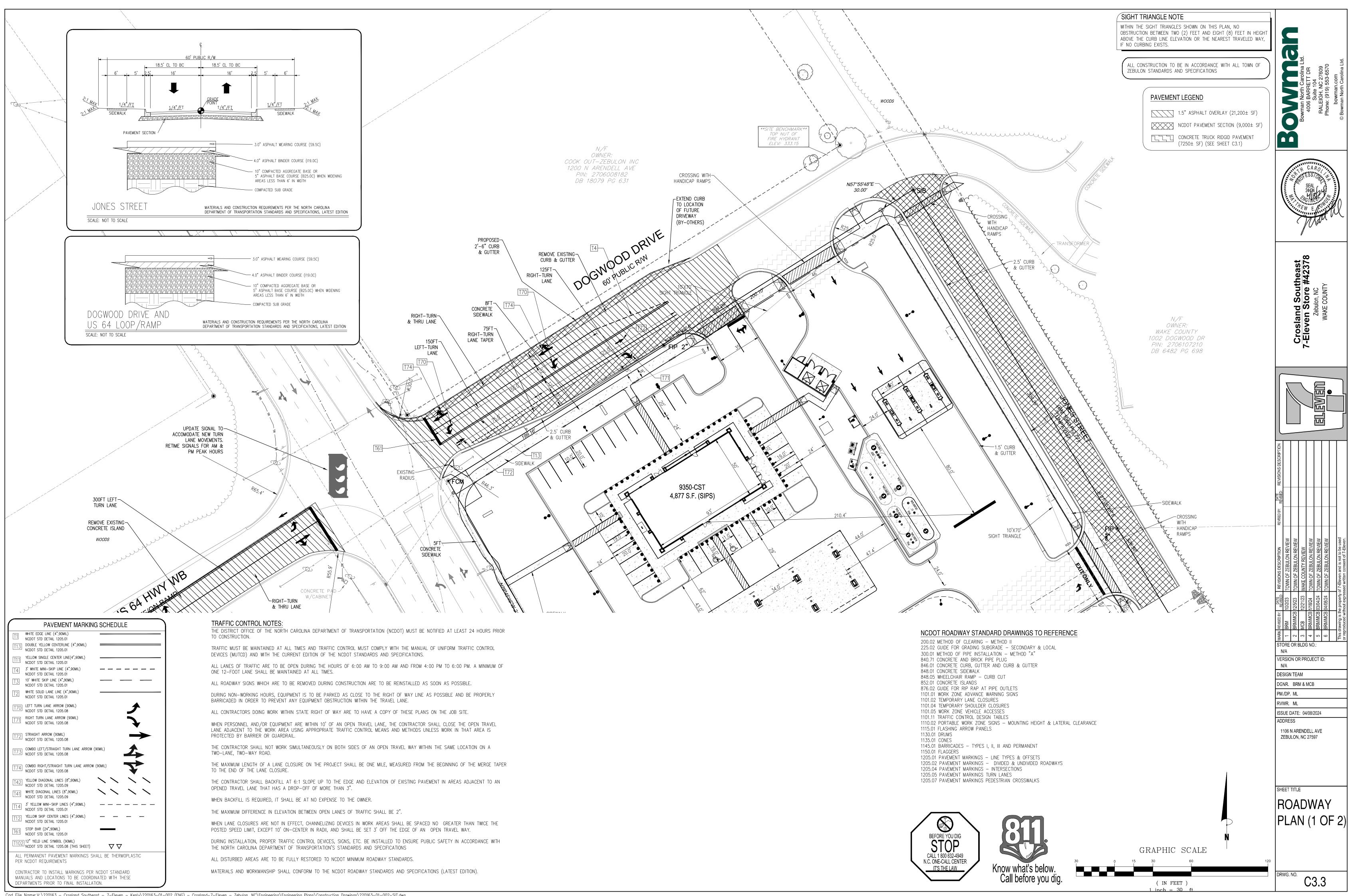


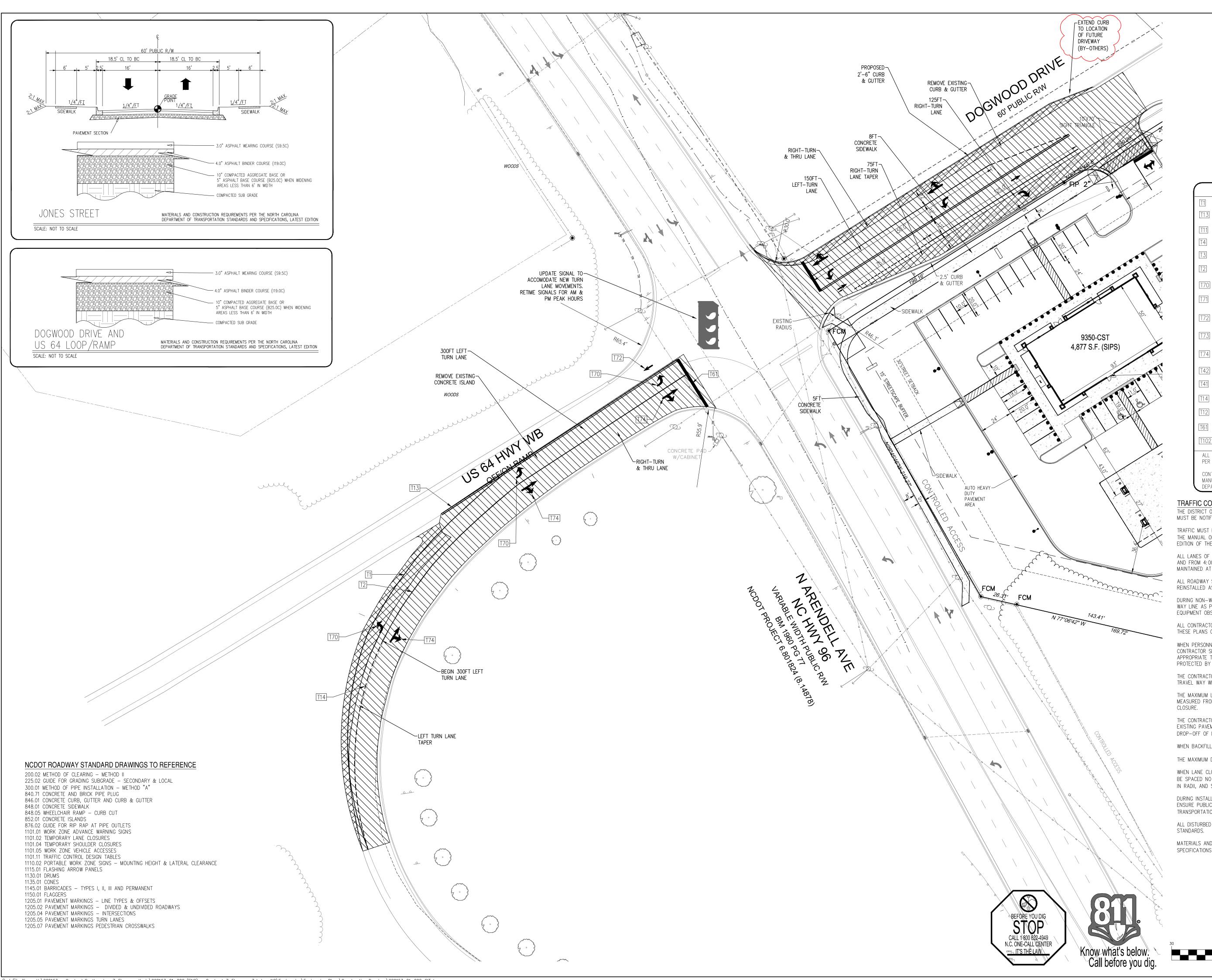




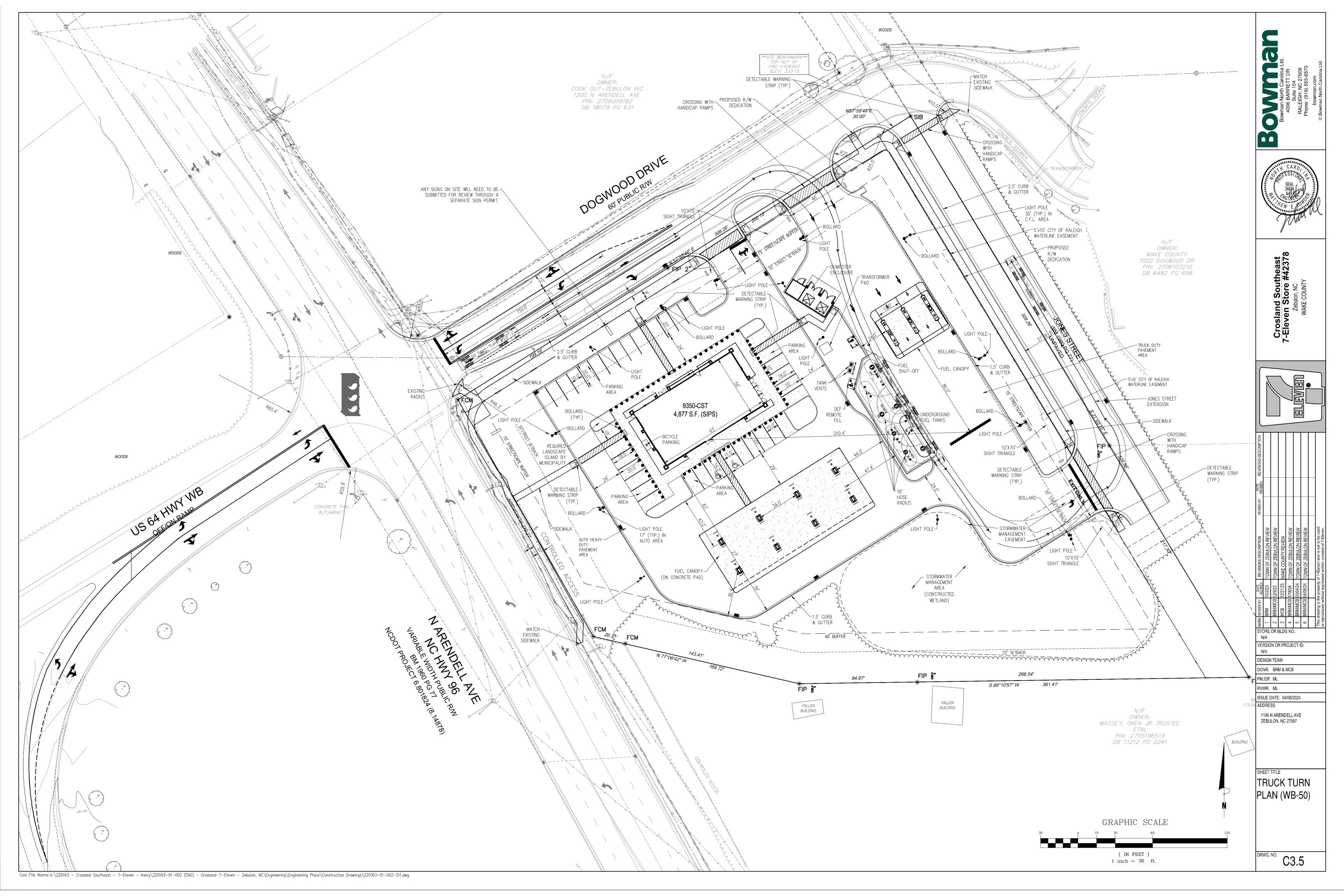
PT ELEV = 334.88 PT STA = $1+62.08$ STA = $1+22.10$ ELEV = 335.38 AD = -6.00% K=20.00		LOW PT S PVI STA	EV = 333.74 IA = 3+04.86 = 3+04.82 V = 333.55			
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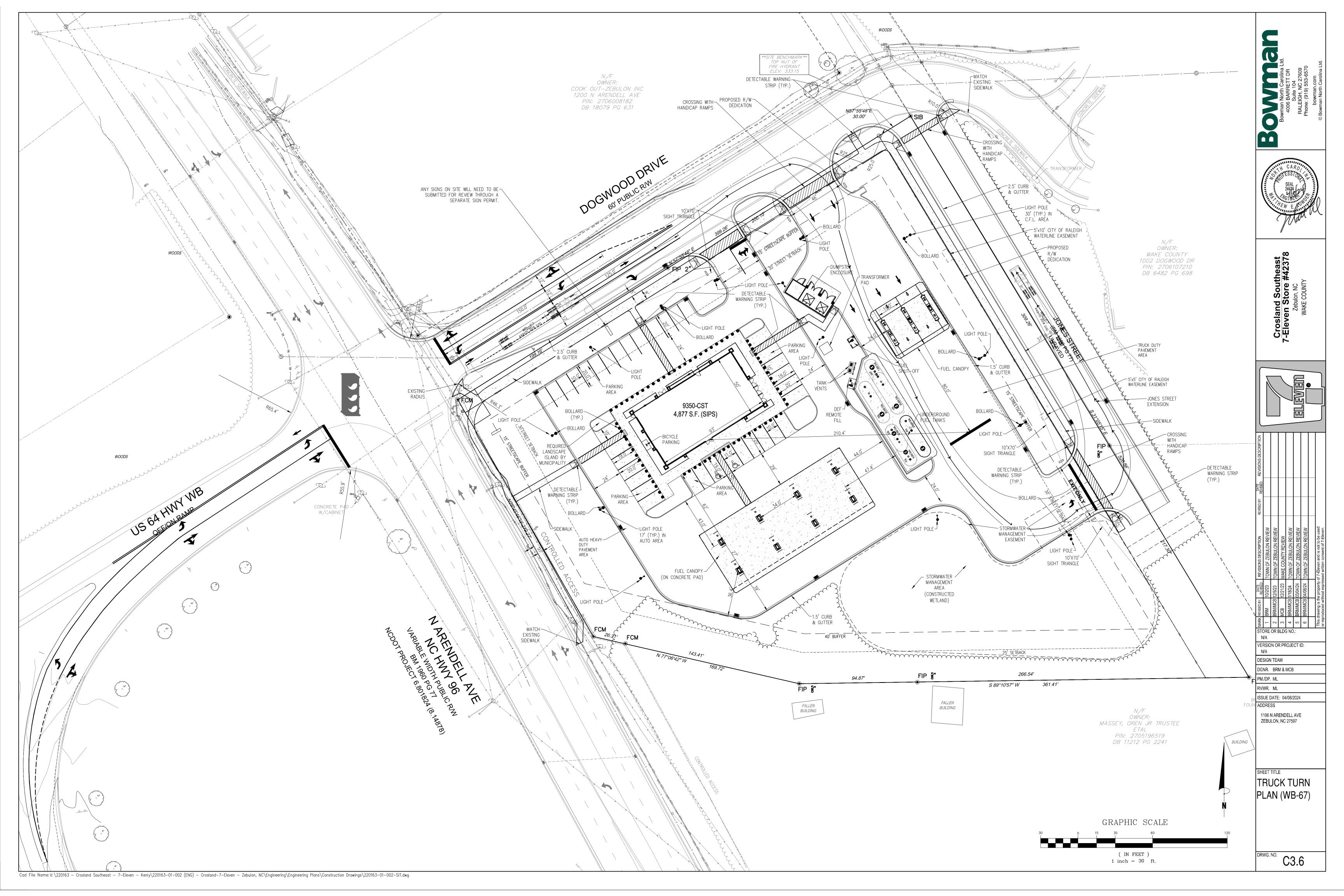




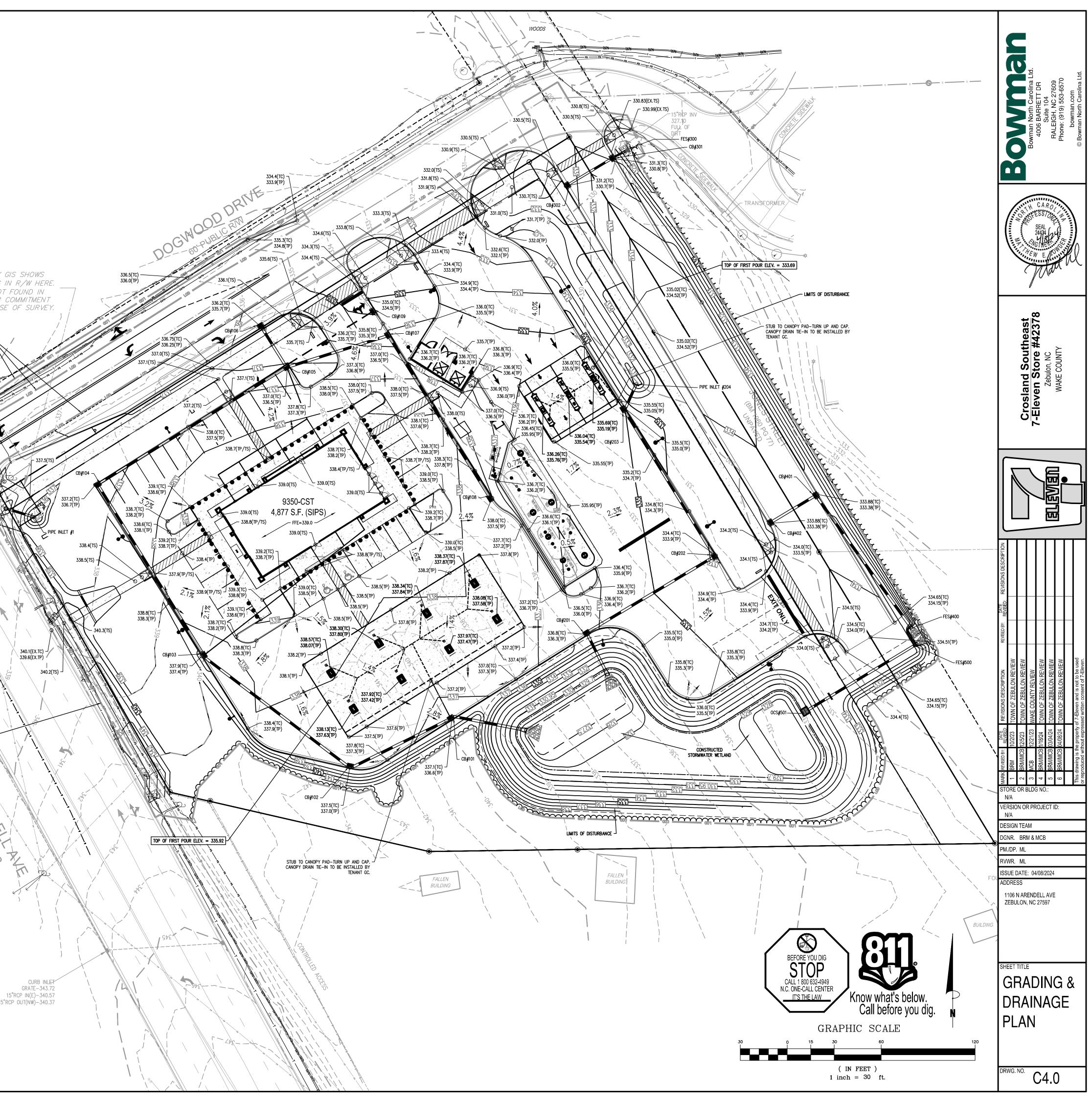


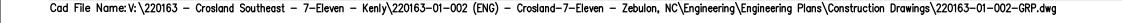
SIGHT TRIANGLE NOTE WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN, NO OBSTRUCTION BETWEEN TWO (2) FEET AND EIGHT (8) FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION OR THE NEAREST TRAVELED WAY, IF NO CURBING EXISTS. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS PAVEMENT LEGEND 1.5" ASPHALT OVERLAY (21,200± SF) NCDOT PAVEMENT SECTION (9,000± SF)	Bowman North Carolina Ltd. Bowman North Carolina Ltd. 4006 BARRETT DR Suite 104 RALEIGH, NC 27609 Phone: (919) 553-6570 bowman.com
CONCRETE TRUCK RIDGID PAVEMENT (7250± SF) (SEE SHEET C3.1) PAVEMENT MARKING SCHEDULE II WHITE EDGE LINE (4",90MIL) NCDOT STD DETAIL 1205.01 III DOUBLE YELLOW CENTERLINE (4",90MIL) NCDOT STD DETAIL 1205.01 III YELLOW SINGLE CENTER LINE(4",90MIL) NCDOT STD DETAIL 1205.01 III YELLOW SINGLE CENTER LINE (4",90MIL) NCDOT STD DETAIL 1205.01 III YELLOW SINGLE CENTER LINE (4",90MIL) NCDOT STD DETAIL 1205.01 III Si WHITE MINI-SKIP LINE (4",90MIL) NCDOT STD DETAIL 1205.01 III OF TAUL 1205.01 III YELLOW LINE (4",90MIL) NCDOT STD DETAIL 1205.01 III WHITE SKIP LINE (4",90MIL) NCDOT STD DETAIL 1205.01 III YELLOW LINE (4",90MIL) NCDOT STD DETAIL 1205.01 III YELLOW LINE (4",90MIL) NCDOT STD DETAIL 1205.01	SEAL 2444 2444 2444 2444 2444 2444 2444 24
12 WHTE SOLID LANE LINE (4",90MIL) NCDOT STD DETAIL 1205.01 1770 LEFT TURN LANE ARROW (90MIL) NCDOT STD DETAIL 1205.08 1771 RIGHT TURN LANE ARROW (90MIL) NCDOT STD DETAIL 1205.08 1772 STRAIGHT ARROW (90MIL) NCDOT STD DETAIL 1205.08 1773 COMBO LEFT/STRAIGHT TURN LANE ARROW (90MIL) NCDOT STD DETAIL 1205.08 1774 COMBO RIGHT/STRAIGHT TURN LANE ARROW (90MIL) NCDOT STD DETAIL 1205.08 1774 COMBO RIGHT/STRAIGHT TURN LANE ARROW (90MIL) NCDOT STD DETAIL 1205.09 1741 MHTE DIAGONAL LINES (8",90MIL) NCDOT STD DETAIL 1205.09 1741 NCDOT STD DETAIL 1205.09 1743 YELLOW MINI-SKIP LINES (4",90MIL) NCDOT STD DETAIL 1205.01 1744 NCDOT STD DETAIL 1205.01 1755 STOP BAR (24",90MIL) NCDOT STD DETAIL 1205.01 1761 STOP BAR (24",90MIL) NCDOT STD DETAIL 1205.01 1702 12" YIELD LINE SYMBOL (90MIL) NCDOT STD DETAIL 1205.08 (THIS SHEET)	Crosland Southeast T-Eleven Store #42378 Zebulon, NC WAKE COUNTY
ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PER NCDOT REQUIREMENTS CONTRACTOR TO INSTALL MARKINGS PER NCDOT STANDARD MANUALS AND LOCATIONS TO BE COORDINATED WITH THESE DEPARTMENTS PRIOR TO FINAL INSTALLATION.	REVISED BY: REVISIONS
IIPMENT OBSTRUCTION WITHIN THE TRAVEL LANE. CONTRACTORS DOING WORK WITHIN STATE RIGHT OF WAY ARE TO HAVE A COPY OF SE PLANS ON THE JOB SITE. IN PERSONNEL AND/OR EQUIPMENT ARE WITHIN 10' OF AN OPEN TRAVEL LANE, THE ITRACTOR SHALL CLOSE THE OPEN TRAVEL LANE ADJACENT TO THE WORK AREA USING PROPRIATE TRAFFIC CONTROL MEANS AND METHODS UNLESS WORK IN THAT AREA IS DITECTED BY BARRIER OR GUARDRAIL. CONTRACTOR SHALL NOT WORK SIMULTANEOUSLY ON BOTH SIDES OF AN OPEN VEL WAY WITHIN THE SAME LOCATION ON A TWO-LANE, TWO-WAY ROAD. MAXIMUM LENGTH OF A LANE CLOSURE ON THE PROJECT SHALL BE ONE MILE, SURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE SURE. CONTRACTOR SHALL BACKFILL AT 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF STING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A OP-OFF OF MORE THAN 3". IN BACKFILL IS REQUIRED, IT SHALL BE AT NO EXPENSE TO THE OWNER.	MARK REVISED BY: REVISED DY: R
EN LANE CLOSURES ARE NOT IN EFFECT, CHANNELIZING DEVICES IN WORK AREAS SHALL SPACED NO GREATER THAN TWICE THE POSTED SPEED LIMIT, EXCEPT 10' ON-CENTER RADII, AND SHALL BE SET 3' OFF THE EDGE OF AN OPEN TRAVEL WAY. RING INSTALLATION, PROPER TRAFFIC CONTROL DEVICES, SIGNS, ETC. BE INSTALLED TO JURE PUBLIC SAFETY IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF NSPORTATION'S STANDARDS AND SPECIFICATIONS DISTURBED AREAS ARE TO BE FULLY RESTORED TO NCDOT MINIMUM ROADWAY NDARDS. TERIALS AND WORKMANSHIP SHALL CONFORM TO THE NCDOT ROADWAY STANDARDS ANE CIFICATIONS (LATEST EDITION).	ISSUE DATE: 04/08/2024 ADDRESS 1106 N ARENDELL AVE ZEBULON, NC 27597
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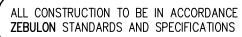




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						WAKE COUNTY G
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24 NOF 001(3W	CURB INLEP GRATE-332.25					
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	CS#501 FES#500 80 E INLET #1 EX. DROP INLET 20		18" RCP 329.7 15" RCP 334.0	329.3 334.0 333.0 334.0		-







GRADING NOTES:

- 1. REFER TO THE SITE PLAN FOR RELATED NOTES.
- 2. ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.
- 3. ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK, AND THIS MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
- 4. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION.
- 6. THE CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- 7. LIMITS OF CLEARING SHOWN ON GRADING PLAN ARE BASED UPON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.
- 8. THE PROPOSED CONTOURS SHOWN IN DRIVES AND PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
- 9. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL DRAIN BY GRAVITY FLOW ACROSS NEW PAVEMENT AREAS TO NEW OR EXISTING DRAINAGE INLETS OR SHEET OVERLAND.
- 10. ANY GRADING, BEYOND THE LIMITS OF CONSTRUCTION AS SHOWN ON THE GRADING PLAN, IS PROHIBITED.
- 11. LAND DISTURBANCE WITHOUT AN APPROVED ESC PLAN IS PROHIBITED.
- 12. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON DENUDED AREAS AND ESPECIALLY WHEN THE CONSTRUCTION SEQUENCE REQUIRES IT.
- 13. ALL GRADED AREAS ARE TO BE STABILIZED (SEEDED OR LANDSCAPED) WITHIN 14 DAYS OF HAVING REACHED FINAL GRADE.
- 14. EXISTING GRADES, CONTOURS, UTILITIES AND OTHER EXISTING FEATURES FROM FIELD RUN SURVEY.
- 15. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.
- 16. 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.
- 17. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION, ELEVATION, AND DIMENSIONS OF EXIT DOORS, RAMPS, BUILDING DIMENSIONS. AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- 18. ALL FILL MATERIALS, EXISTING BUILDING FOUNDATIONS, PAVEMENT AND UTILITY STRUCTURES, TOPSOIL, AND ANY OTHER DELETERIOUS MATERIALS SHALL BE COMPLETELY REMOVED FROM WITHIN THE BEARING ZONE BELOW THE STRUCTURE.
- 19. ALL FOUNDATION EXCAVATION SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL REPRESENTATIVE TO DETERMINE WHETHER UNSUITABLE MATERIAL MUST BE REMOVED. ALL UNDESIREABLE MATERIAL SHALL BE REMOVED, BACKFILLED AND COMPACTED AS REQUIRED BY THE GEOTECHNICAL REPRESENTATIVE.
- 20. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED OR DEPICTED.
- 21. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 22. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- 23. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- 24. ALL UNSURFACED AREAS DISTRURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H: 1V OR STEEPER.
- 25. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.

DRAINAGE NOTES:

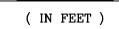
- 1. A MINIMUM GRADE OF 0.50 % SHALL BE MAINTAINED ON ALL PIPES, UNLESS OTHERWISE NOTED.
- 2. PIPE LENGTHS AND SLOPES INDICATED ON THE PLANS ARE APPROXIMATE ONLY.
- 3. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: A. 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. C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY. D. MATERIAL USED FOR BACK-FILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE
- STABILIZATION. E. RESTABALIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REGULATIONS. F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- 4. CATCH BASINS, MANHOLES, FRAMES, GRATES, ETC. SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE TOWN OF ZEBULON STANDARD DRAWINGS AND SPECIFICATIONS.
- 5. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 6. STORM PIPE SHALL BE AS FOLLOW UNLESS OTHERWISE NOTED:
- TYPE 1: RCP, CLASS III PER ASTM C-76, WITH FLEXIBLE PLASTIC BITUMEN GASKETS AT JOINTS.
- TYPE 2: HIGH DENSITY POLYETHYLENE PIPE (HDPE) AASHTO DESIGNATION M252 TYPE S, M294 TYPE S AND MP7–97 TYPE S, SMOOTH INTERIOR/ANNULAR EXTERIOR. ONLY PERMITTED WHEN SPECIFICALLY INDICATED ON THE CONSTRUCTION DRAWINGS. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER'S INSTALLATION GUIDELINES. PIPE JOINTS AND FITTINGS SHALL BE WATERTIGHT.
- 7. ALL STORM DRAINAGE WITHIN THE PUBLIC ROADS SHALL BE CLASS III REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED.
- 8. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE SILT AND debris.
- 9. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- 10. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- 11. PRECAST STRUCTURES MAYBE USED AT CONTRACTORS OPTION.
- 12. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- 13. STRUCTURE TOP ELEVATIONS SHOWN HERE ARE APPROXIMATE. CONTRACTOR SHALL ADJUST AS NECESSARY.
- 14. RIM ELEVATIONS AS NOTED ARE TO THE GUTTER FLOW LINE.

LEGEND
ELGEND
TOSTOP OF SIDEWALK
TOCTOP OF CURB
FLGUTTER FLOW LINE
TOPTOP OF PAVEMENT
TWTOP OF WALL
BWBOTTOM OF WALL
CBCATCH BASIN
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ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF

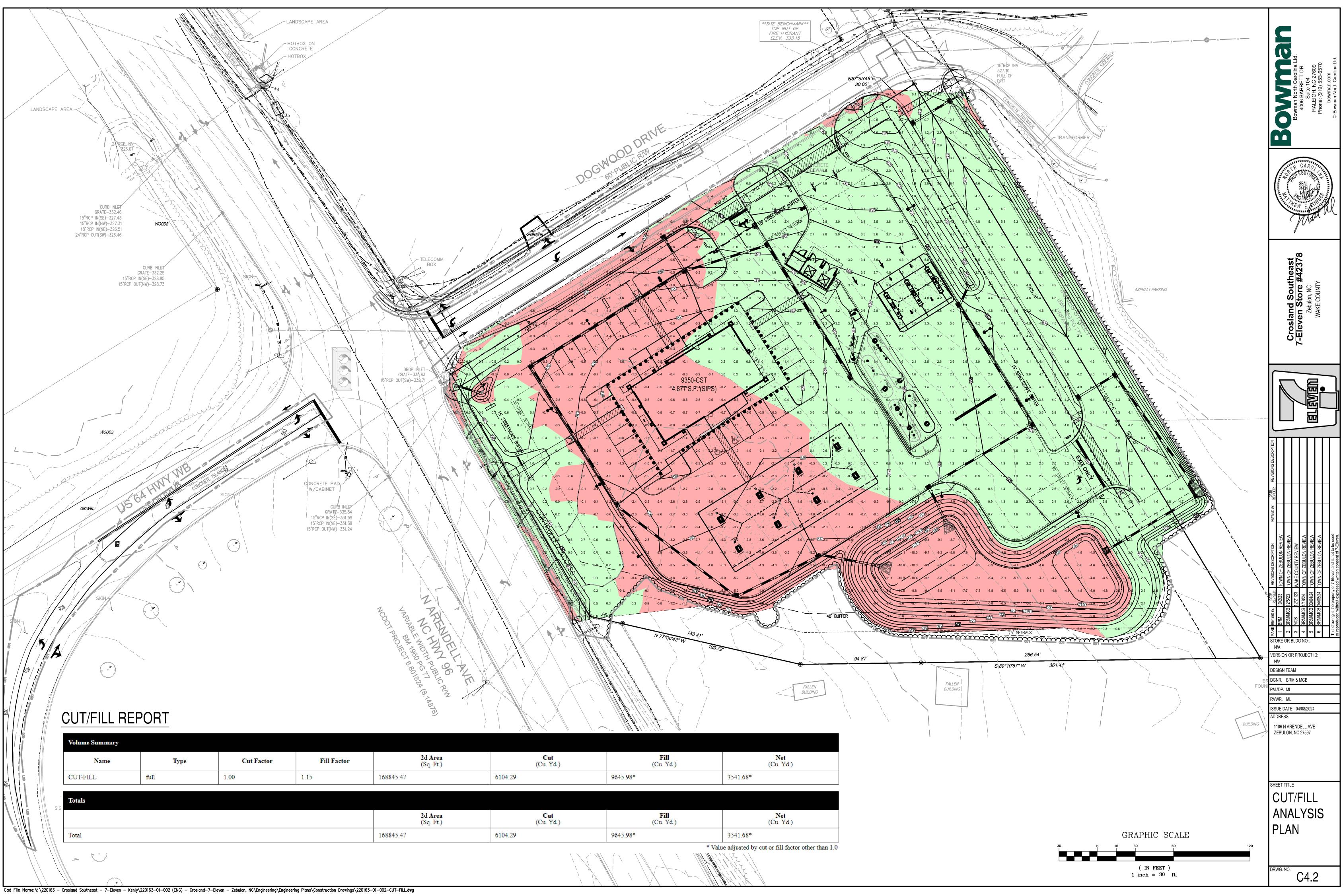


GRAPHIC SCALE



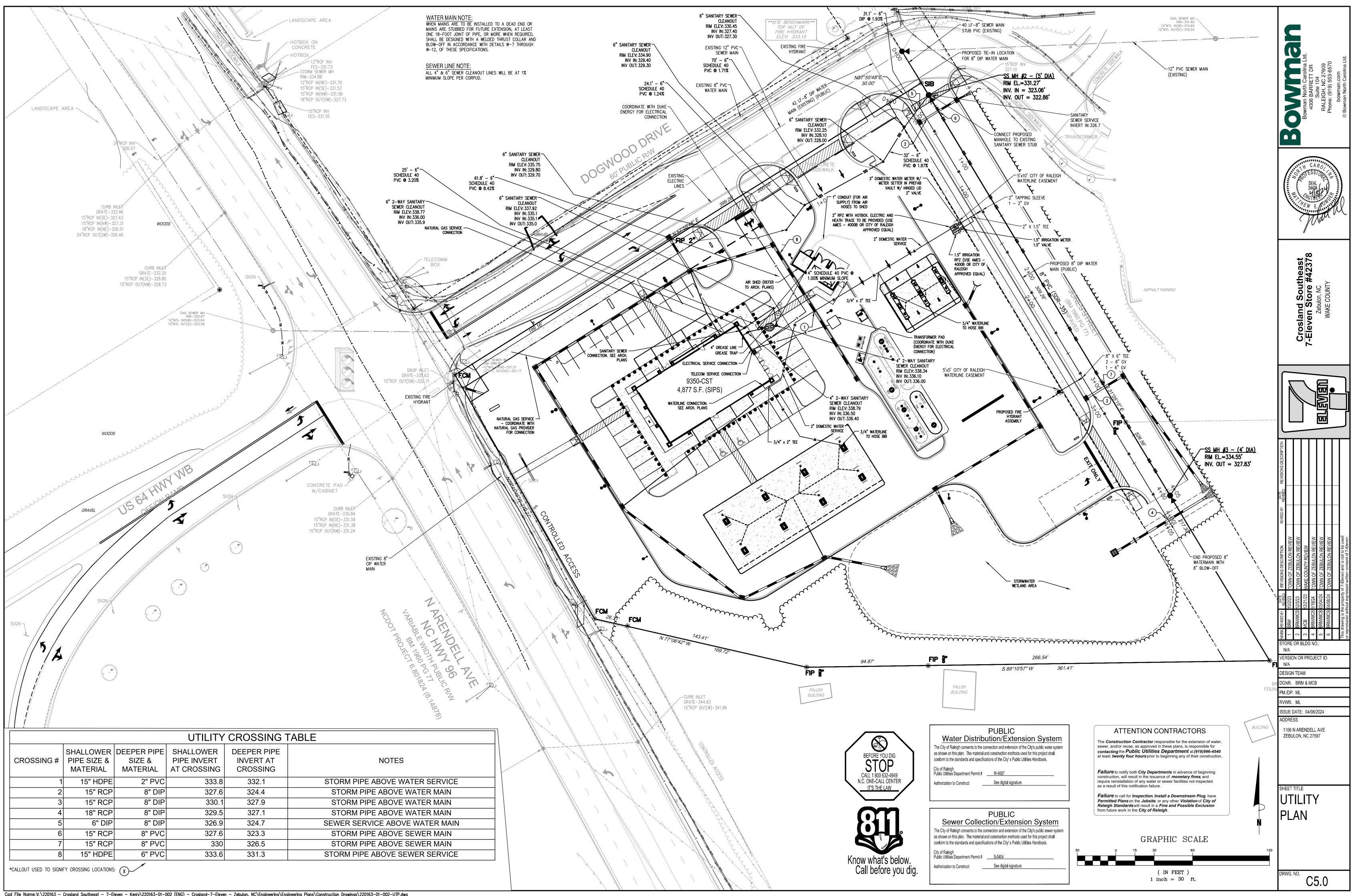
1 inch = 50 ft.

			Bowman North Carolina Ltd.	4006 BARRETT DR	SUITE 104 RAI FIGH NC 27609	Phone: (919) 553-6570	howman com	© Bowman North Carolina Ltd.
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		Crosland Southeast			Zebulon, NC	WAKE COUNTY		
A MARK REVISED BY: DATE REVISIONS DESCRIPTION REVISED BY: REVISED: REVISIONS DESCRIPTION	월 1 BRM 10/2/23 TOWN OF ZEBULON REVIEW	2 BRM/MCB12/5/23 TOWN OF ZEBULON REVIEW	3 MCB 12/21/23 WAKE COUNTY REVIEW	4 BRMIMCB 1/18/24 TOWN OF ZEBULON REVIEW	5 BRM/MCB 03/04/24 TOWN OF ZEBULON REVIEW	6 BRM/MCB 04/08/24 TOWN OF ZEBULON REVIEW		This drawing is the property of 7-Eleven and is not to be used or reproduced without expressed written consent of 7-Eleven.
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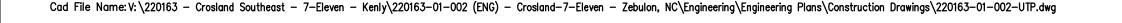


	Volume Summary				
	Name	Туре	Cut Factor	Fill Factor	2d Area (Sq. Ft.)
	CUT-FILL	full	1.00	1.15	168845.47
SIG	Totals				
					2d Area (Sq. Ft.)
	Total				168845.47
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Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
6104.29	9645.98*	3541.68*
Cut	Fill	Net
Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
(Cu. Yd.)	(Cu. Yd.) 9645.98*	(Cu. Yd.)



			UTILITY	CROSSING ⁻	TABLE
CROSSING #	SHALLOWER PIPE SIZE & MATERIAL	DEEPER PIPE SIZE & MATERIAL	SHALLOWER PIPE INVERT AT CROSSING	DEEPER PIPE INVERT AT CROSSING	NOTES
1	15" HDPE	2" PVC	333.8	332.1	STORM PIPE ABOVE WATER SERVICE
2	15" RCP	8" DIP	327.6	324.4	STORM PIPE ABOVE WATER MAIN
3	15" RCP	8" DIP	330.1	327.9	STORM PIPE ABOVE WATER MAIN
4	18" RCP	8" DIP	329.5	327.1	STORM PIPE ABOVE WATER MAIN
5	6" DIP	8" DIP	326.9	324.7	SEWER SERVICE ABOVE WATER MAIN
6	15" RCP	8" PVC	327.6	323.3	STORM PIPE ABOVE SEWER MAIN
7	15" RCP	8" PVC	330	326.5	STORM PIPE ABOVE SEWER MAIN
8	15" HDPE	6" PVC	333.6	331.3	STORM PIPE ABOVE SEWER SERVICE
		-			



Project Water System Data:

- 1. Are the total # domestic water services \geq 15, OR the total # people served \geq 25? Yes / No 2. Type of development? (select one)
- Commercial property
 Residential Condos or Townhome:
- Residential Apartments 3. <u>NOTE</u>: permitting by City of Raleigh on projects having ≥ 15 domestic water services, OR serving ≥ 25 people, requires Developer <u>NOT</u> to re-sell water (or must have a WR designation from NCUC for Apartment projects only)

UTILITY NOTES:

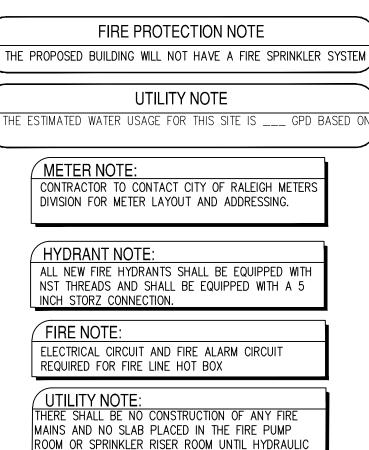
- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH CITY OF RALEIGH STANDARD DRAWINGS AND SPECIFICATIONS.
- 2. IN THE EVENT THAT A UTILITY ITEM IS NOT COVERED BY THESE PLANS, THEN THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT HANDBOOK COVERING SUCH ITEMS SHALL APPLY.
- 3. WATER SERVICES 3/4-INCH TO 2-INCH SHALL BE TYPE "K" SOFT COPPER. ALL OTHER WATER MAINS, SERVICES, AND FITTINGS SHALL BE CEMENT-LINED DUCTILE IRON PIPE PER CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
- 4. GRAVITY SANITARY SEWER MAINS SHALL BE DUCTILE IRON PIPE OR PVC PIPE, AS SPECIFIED IN THESE PLANS AND CITY OF RALEIGH STANDARDS AND SPECIFICATIONS. SANITARY SEWER SERVICES SHALL BE SCHEDULE 40 PVC.
- 5. CLEAN-OUT SYMBOLS SHOWN ON THESE PLANS REPRESENT LOCATION OF SURFACE ACCESS POINT. CONTRACTOR SHALL LOCATE WYE APPROPRIATELY BASED ON PIPE DEPTH.
- 6. ALL MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS. MANHOLE DIAMETER SHALL VARY DEPENDING ON PIPE DIAMETER AND DEPTH, PER CITY OF RALEIGH STANDARDS.
- 7. LOCATIONS AND SIZES OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE TAKEN FROM MAPS PREPARED BY OTHERS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES AND FOR DAMAGES RESULTING FROM FAILURE TO DO SO.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RECORD DRAWINGS TO THE ENGINEER SHOWING THE LOCATION OF WATER AND SEWER SERVICES AND ANY DEVIATIONS FROM PLANS MADE DURING CONSTRUCTION. THE ENGINEER WILL PROVIDE THESE RECORD DRAWINGS TO THE OWNER.
- 9. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" BELOW PROPOSED GRADE.
- 10. ALL UNDERGROUND UTILITIES AND FIRE HYDRANTS MUST BE FUNCTIONALLY APPROVED PRIOR TO STRUCTURAL CONSTRUCTION.
- 11. THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS.
- 12. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.
- 13. ALL WATER AND SANITARY LEADS TO BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END.
- 14. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- 15. GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
- 16. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- 17. CONTRACTOR SHALL NOTIFY THE WATER AUTHORITY INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- 18. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 24" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
- 19. PRESSURE REDUCING VALVES WILL BE REQUIRED ON THE DOMESTIC WATER MAINS IF THE STATIC PRESSURE AT THE BUILDING EXCEEDS 80PSI.
- 20. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, 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 WATERLINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 24" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
- 21. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
- 22. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF RALEIGH WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- 23. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES OR UTILITIES BY OTHERS AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE. MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. 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.
- 24. ALL CONSTRUCTION METHODS & MATERIALS SHALL CONFORM WITH THE CURRENT SPECIFICATIONS AND STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA). THE AWWA CONSTRUCTION STANDARDS ARE SET FORTH IN THEIR CONSTRUCTION SPECIFICATIONS AND STANDARD FOR WATER AND SANITARY SEWERAGE FACILITIES. A COPY OF WHICH MUST BE PURCHASED FROM THE AWWA BY THE CONTRACTOR AND KEPT AT THE JOB SITE AT ALL TIMES. REFERENCE TO NCDOT SHALL MEAN THE CURRENT STANDARDS AND/OR SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION.
- 25. THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE BELOW PLAN GRADE ANY MATERIALS WHICH ARE UNSUITABLE FOR FOUNDATIONS, SUB GRADES, PIPE TRENCH BOTTOMS OR OTHER PURPOSES AND BACKFILL THESE AREAS WITH AN APPROVED MATERIAL. THE EXTENT OF UNDERCUTTING AND BACKFILLING SHALL BE DETERMINED BY THE CITY OF RALEIGH AS TO AREAS WITHIN STREET RIGHT-OF-WAY AND THE ENGINEER IN OTHER AREAS. COMPENSATION SHALL BE AS SET FORTH IN THE CONTRACT DOCUMENTS.
- 26. A MINIMUM VERTICAL SEPARATION OF 24" SHALL BE MAINTAINED BETWEEN SANITARY SEWER & WATER LINES AND A FULL JOINT OF WATER LINE PIPE SHALL BE CENTERED WHERE WATER LINE CROSSES OVER SANITARY SEWER. WHERE CLEARANCE IS LESS THAN 18" BUT GREATER THAN 12", SANITARY SEWER SHALL BE PRESSURE TESTED DUCTILE IRON PIPE 10' FROM WATER-MAIN. WHEN WATER LINE CROSSES UNDER SANITARY SEWER, 18" MINIMUM CLEARANCE MUST BE MAINTAINED, AND SANITARY SEWER SHALL BE PRESSURE TESTED DUCTILE IRON PIPE 10' FROM WATER-MAIN.
- 27. ALL WATERLINES SHALL HAVE BURIED WITH THE PIPE # 12 COATED ELECTRIC WIRE AND BROUGHT UP INTO THE METER BOXES.
- 28. THE CONTRACTOR SHALL PROVIDE A SURVEY AS-BUILT RECORD DRAWING OF THE SANITARY SEWER SYSTEM AND THE WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF RALEIGH UTILITY DEPARTMENT.

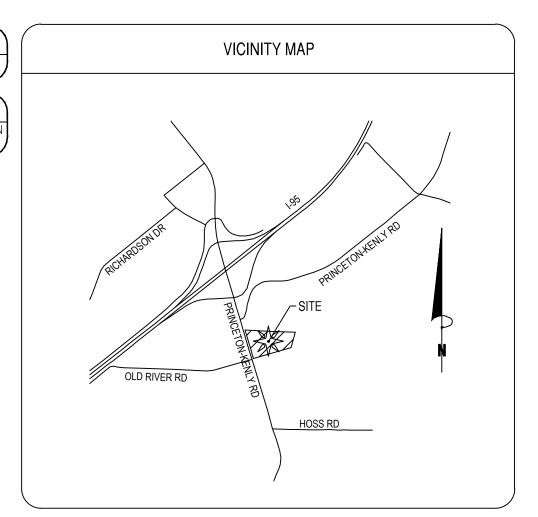
City of Raleigh

City of Raleigh

HYDRANT NOTE: INCH STORZ CONNECTION. FIRE NOTE:

> CALCULATIONS, FOR THE BUILDING(S) ARE SUBMITTED FOR REVIEW AND SUBSEQUENT APPROVAL





STANDARD UTILITY NOTES: All materials & construction methods shall be in accordance with City of Raleigh design standards, details & ` specifications (reference: CORPUD Handbook, current edition) . Utility separation requirements: a) A distance of 100'shall be maintained between sanitary sewer & any private or public water supply

source such as an impounded reservoir used as a source of drinking water. If adequate lateral separation cannot be achieved, ferrous sanitary sewer pipe shall be specified & installed to waterline specifications. However, the minimum separation shall not be less than 25' from a private well or 50' from a publicwell. b) When installing water &/or sewer mains, the horizontal separation between utilities shall be 10'. If this separation cannot be maintained due to existing conditions, the variation allowed is the water main in a separate trench with the elevation of the water main at least 18" above the top of the sewer

& must be approved by the Public Utilities Director. All distances are measured from outside diameter to outside diameter. c) Where it is impossible to obtain proper separation, or anytime a sanitary sewer passes over a watermain, DIP materials or steel encasement extended 10'on each side of crossing must be specified & installed to waterline specifications. d) 5.0' minimum horizontal separation is required between all sanitary sewer & storm sewer facilities,

unless DIP material is specified for sanitary sewer e) Maintain 18"min. vertical separation at all watermain & RCP storm drain crossings; maintain 18" min. vertical separation at all sanitary sewer & RCP storm drain crossings. Where adequate separations cannot be achieved, specify DIP materials & a concrete cradle having 6"min. clearance (per CORPUD details W- 41 & S-49).

f) All other underground utilities shall cross water & sewer facilities with 18"min. vertical separation 3. Any necessary field revisions are subject to review & approval of an amended plan &/or profile by the City of Raleigh Public Utilities Department prior to construction. 4. Developer shall provide 30 days advance written notice to owner for any work required within an existing City of Raleigh Utility Easement traversing private property. 5. Contractor shall maintain continuous water & sewer service to existing residences & businesses throughout construction of project. Any necessary service interruptions shall be preceded by a 24-hour advance notice to the City of Raleigh Public Utilities Department. 6. SEWER BYPASS PUMPING - A bypass plan sealed by an NC Professional Engineer shall be provided to

Raleigh Water prior to pumping operations for approval. The operations and equipment shall comply with the Public Utilities Handbook. 7. 3.0' minimum cover is required on all water mains & sewer force mains. 4.0' minimum cover is required on all reuse mains. 8. It is the developer's responsibility to abandon or remove existing water & sewer services not being used in

redevelopment of a site unless otherwise directed by the City of Raleigh Public Utilities Department. This includes abandoning tap at main & removal of service from ROW or easement per CORPUD Handbook 9. Install 2"copper* water services with meters located at ROW or within a 2x2'Waterline Easement immediately adjacent. NOTE: it is the applicant's responsibility to properly size the water service for each

connection to provide adequate flow & pressure 10. Install 6" PVC* sewer services @ 1.0% minimum grade with cleanouts located at ROW or easement line & spaced every 75 linear feet maximum. I. Pressure reducing valves are required on all water services exceeding 80 psi; backwater valves are required on all sanitary sewer services having building drains lower than 1.0' above the next upstream mar 12. All environmental permits applicable to the project must be obtained from NCDWQ, USACE &/or FEMA for any riparian buffer, wetland &/or floodplain impacts (respectively) prior to construction. 13. NCDOT / Railroad Encroachment Agreements are required for any utility work (including main extensions & service taps) within state or railroad ROW prior to construction. 14. Grease Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the RW FOG Program Coordinator prior to issuance of a UC and/or Building Permit. Contact (919) 996-4516 or fog@raleighnc.gov for more information. 15. Cross-connection control protection devices are required based on the degree of health hazard involved as listed in Appendix B of the Rules Governing Public Water Systems in North Carolina. 16. The devices shall meet the American Society of Sanitary Engineering (SAAE) standards and be on the

University of Southern California approval list. 17. The device and installation shall meet the auidelines of Appendix A -Guidelines and Reauirements for the Cross Connection Program in Raleigh's Service Area. 18. The devices shall be installed and tested (both, initial and periodic testing thereafter) in accordance with the manufacturer's recommendations or the local cross connection control program, whichever is more stringent. Contact Cross.connection@raleighnc.gov for more information. 19. NOTICE for projects that involve an oversized main or urban main replacement. Any City reimbursement

greater than \$250,000.00 must undergo the public bidding process.

UTILITY SERVICE NOTES

WATER SERVICE GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 2" WATER SERVICE LINE FROM MAIN TO BUILDING PER MUNICIPAL REQUIREMENTS. CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540

ELECTRIC SERVICE "POWER CO." TO PROVIDE UNDERGROUND 120/208/3 PHASE SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL TWO 4" DIA. CONDUIT W/ PULL WIRE TO UTILITY COMPANY POINT OF CONNECTION.

CONTACT: PROGRESS ENERGY TELEPHONE: 800-636-0581

TELEPHONE: 919-857-4540

FOR ALL EASEMENT DEDICATIONS

TELEPHONE:

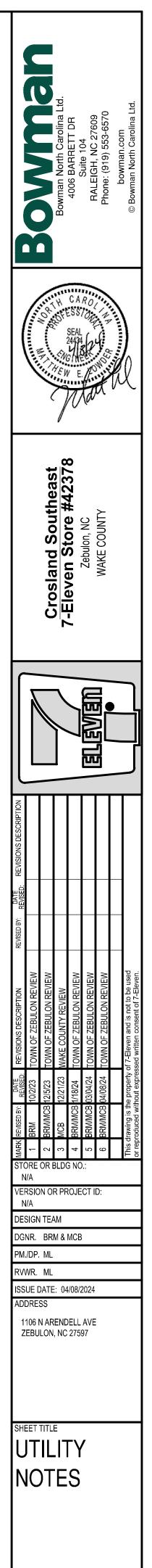
TELEPHONE SERVICE

"TELEPHONE CO." TO PROVIDE NEW UNDERGROUND SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" DIA. PVC CONDUIT W/ PULL WIRE FROM PHONE PANEL BOARD TO UTILITY COMPANY POINT OF CONNECTION CONTACT: TELEPHONE:

SANITARY SEWER GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 6" SCHEDULE 40 PVC FROM EXISTING SANITARY SEWER SYSTEM TO LAST CLEAN OUT OUTSIDE OF BUILDING. (MIN. 1% SLOPE). PROVIDE CLEAN OUTS EVERY 75' (TYPICAL). CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT

NATURAL GAS GENERAL CONTRACTOR TO COORDINATE WITH NATURAL GAS UTILITY FOR SERVICE LINE TO PROPOSED BUILDING. CONTACT:

CONDITION OF APPROAL A PLAT WILL NEED TO BE RECORDED WITH THE REGISTER OF DEEDS



PUBLIC Water Distribution/Extension System

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

Public Utilities Department Permit # _______ W-4087_____ Authorization to Construct See digital signature

PUBLIC

Sewer Collection/Extension System The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

Public Utilities Department Permit # ______S-5404 Authorization to Construct See digital signature

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919)996-4540 at least *twenty four hours* prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of *monetary fines*, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the *City of Raleigh*.

	SS MH#EX. 146 RIM EL. = 330.05 INV. IN = 322.70					
335		$\frac{\text{SS MH} \#2 - (5' \text{ DIA})}{\text{RIM EL.} = 331.27}$ $\text{INV. IN} = 323.06$ $\text{INV. OUT} = 322.86$	PROPOSED	GRADE		
330			-EXISTING G	RADE		
325		3.6'		364.8	39'-8" PVC (SDR-35) @ 1.	31%
320						
		STING 40.00'-8" PVC (SDR-35) @	0.40%			
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GENERAL CONTRACTOR TO PROVIDE AND INSTALL TWO 4" DIA. CONDUIT W/ PULL WIRE TO UTILITY COMPANY POINT OF CONNECTION. PROGRESS ENERGY CONTACT: TELEPHONE: 800-636-0581 TELEPHONE SERVICE "TELEPHONE CO." TO PROVIDE NEW UNDERGROUND SERVICE. GENERAL CONTACT: TELEPHONE: SANITARY SEWER CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540 NATURAL GAS GENERAL CONTRACTOR TO COORDINATE WITH NATURAL GAS UTILITY FOR SERVICE LINE TO PROPOSED BUILDING. CONTACT: FELEPHONE:

GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 2" WATER SERVICE LINE FROM MAIN TO BUILDING PER MUNICIPAL REQUIREMENTS.

CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540

ELECTRIC SERVICE

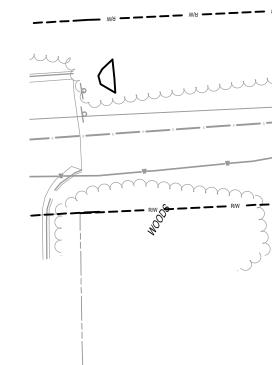
WATER SERVICE

"POWER CO." TO PROVIDE UNDERGROUND 120/208/3 PHASE SERVICE.

CONTRACTOR TO PROVIDE AND INSTALL A 4" DIA. PVC CONDUIT W/ PULL WRE FROM PHONE PANEL BOARD TO UTILITY COMPANY POINT OF CONNECTION.

UTILITY SERVICE NOTES

GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 6" SCHEDULE 40 PVC FROM EXISTING SANITARY SEWER SYSTEM TO LAST CLEAN OUT OUTSIDE OF BUILDING. (MIN. 1% SLOPE). PROVIDE CLEAN OUTS EVERY 75' (TYPICAL).



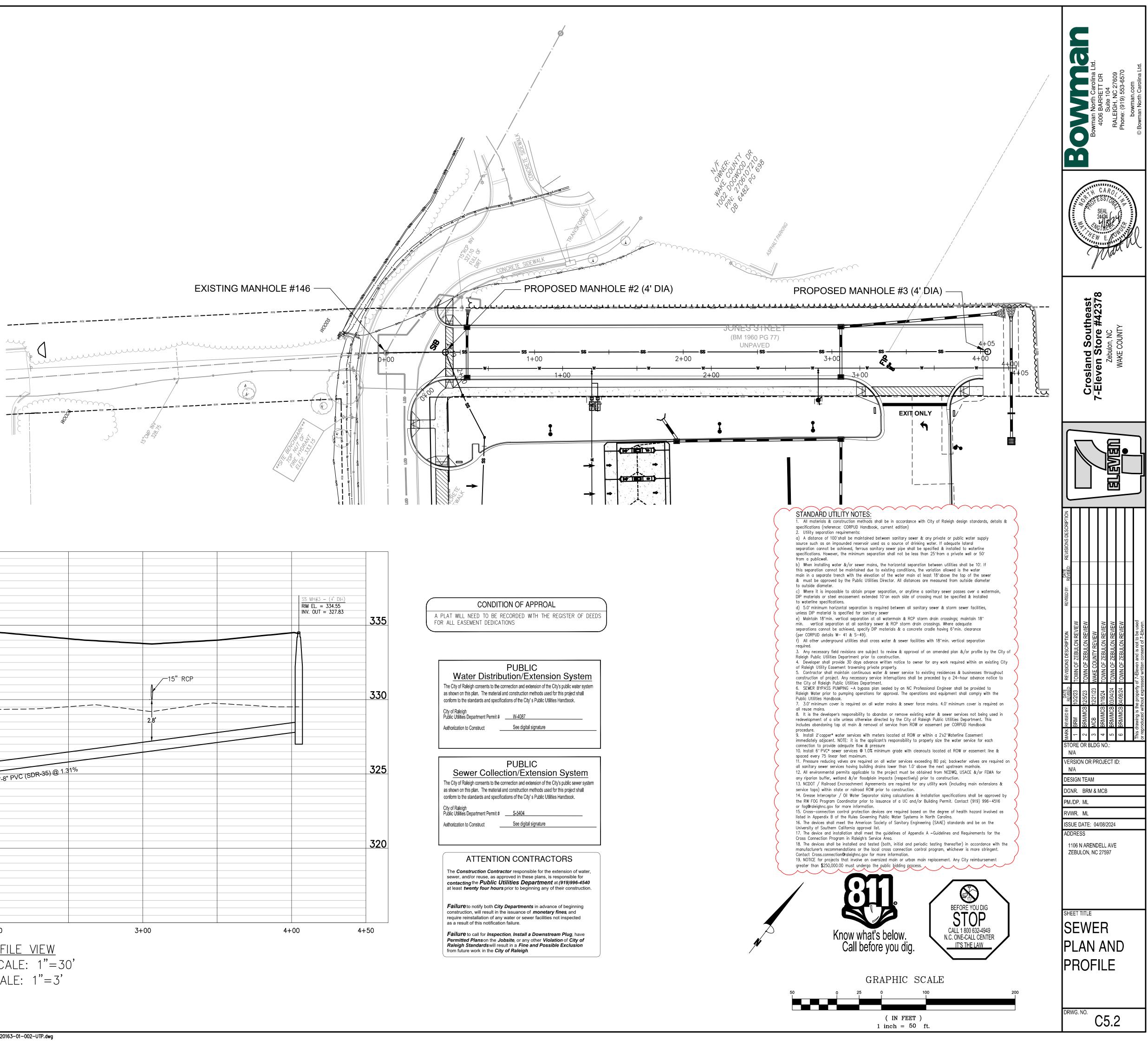
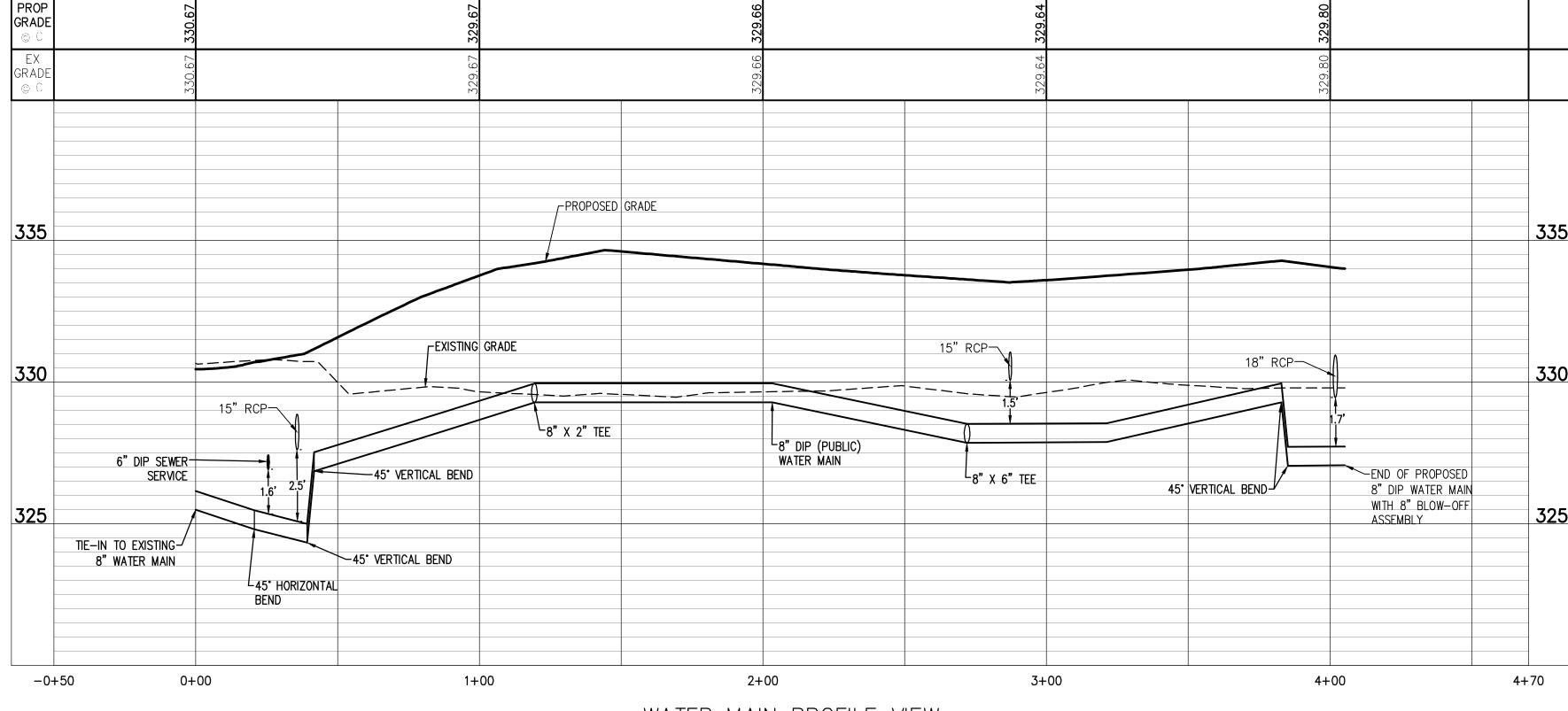


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Image: Constraint of the sector of the se	320
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WATER	MAIN	PROFIL	<u>e view</u>
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VERTI	CAL S	SCALE:	1"=3'

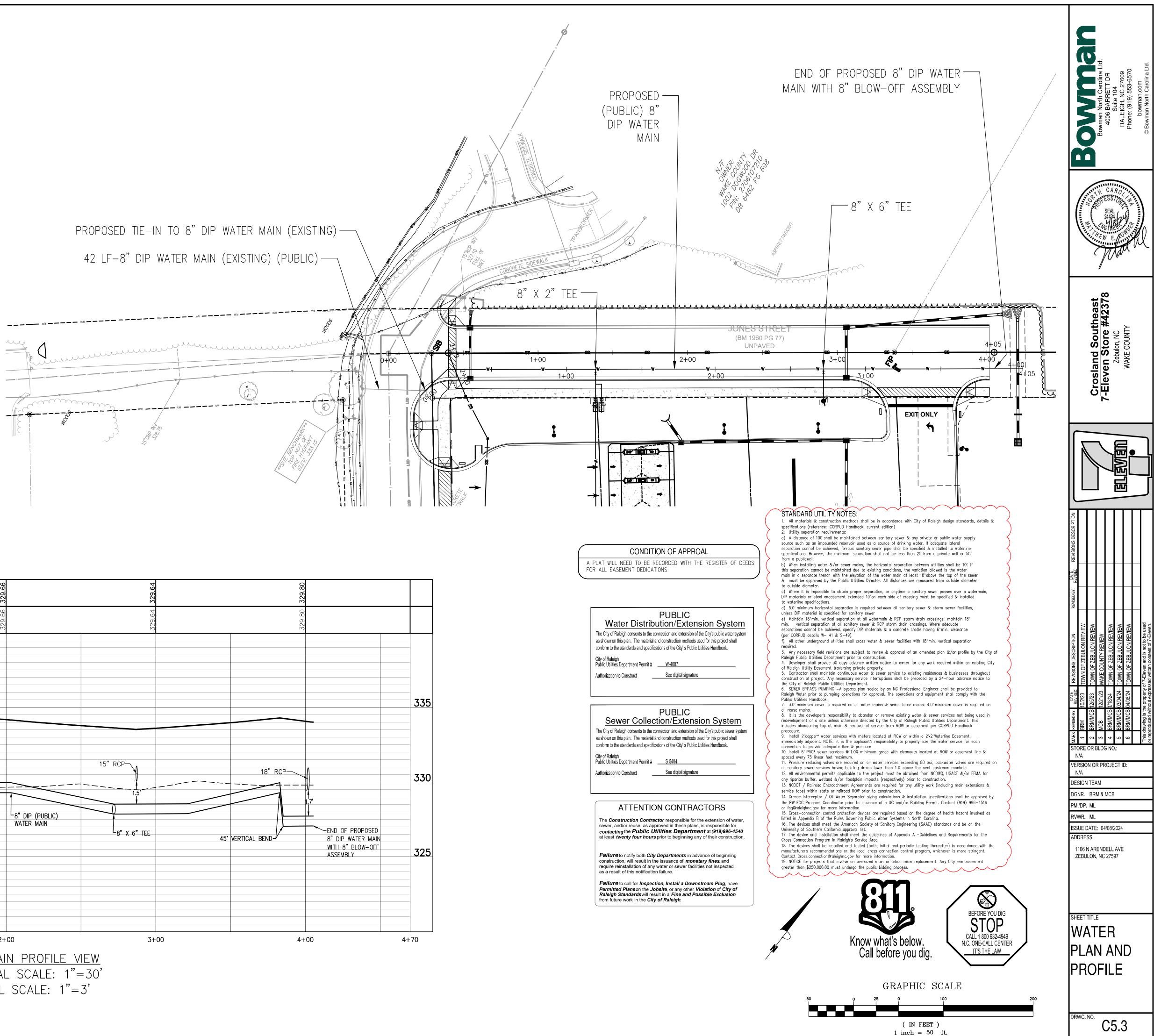


GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 1" WATER SERVICE LINE FROM MAIN TO BUILDING PER MUNICIPAL REQUIREMENTS. CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540 ELECTRIC SERVICE "POWER CO." TO PROVIDE UNDERGROUND 120/208/3 PHASE SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL TWO 4" DIA. CONDUIT W/ PULL WIRE TO UTILITY COMPANY POINT OF CONNECTION. CONTACT: PROCRESS ENERGY CONTACT: TELEPHONE: 800-636-0581 TELEPHONE SERVICE "TELEPHONE CO." TO PROVIDE NEW UNDERGROUND SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" DIA. PVC CONDUIT W/ PULL WIRE FROM PHONE PANEL BOARD TO UTILITY COMPANY POINT OF CONNECTION. CONTACT: TELEPHONE: SANITARY SEWER GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" SCHEDULE 40 PVC FROM EXISTING SANITARY SEWER SYSTEM TO LAST CLEAN OUT OUTSIDE OF BUILDING. (MIN. 1% SLOPE). PROVIDE CLEAN OUTS EVERY 75' (TYPICAL). CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540 NATURAL GAS GENERAL CONTRACTOR TO COORDINATE WITH NATURAL GAS UTILITY FOR SERVICE LINE TO PROPOSED BUILDING. CONTACT: FELEPHONE:

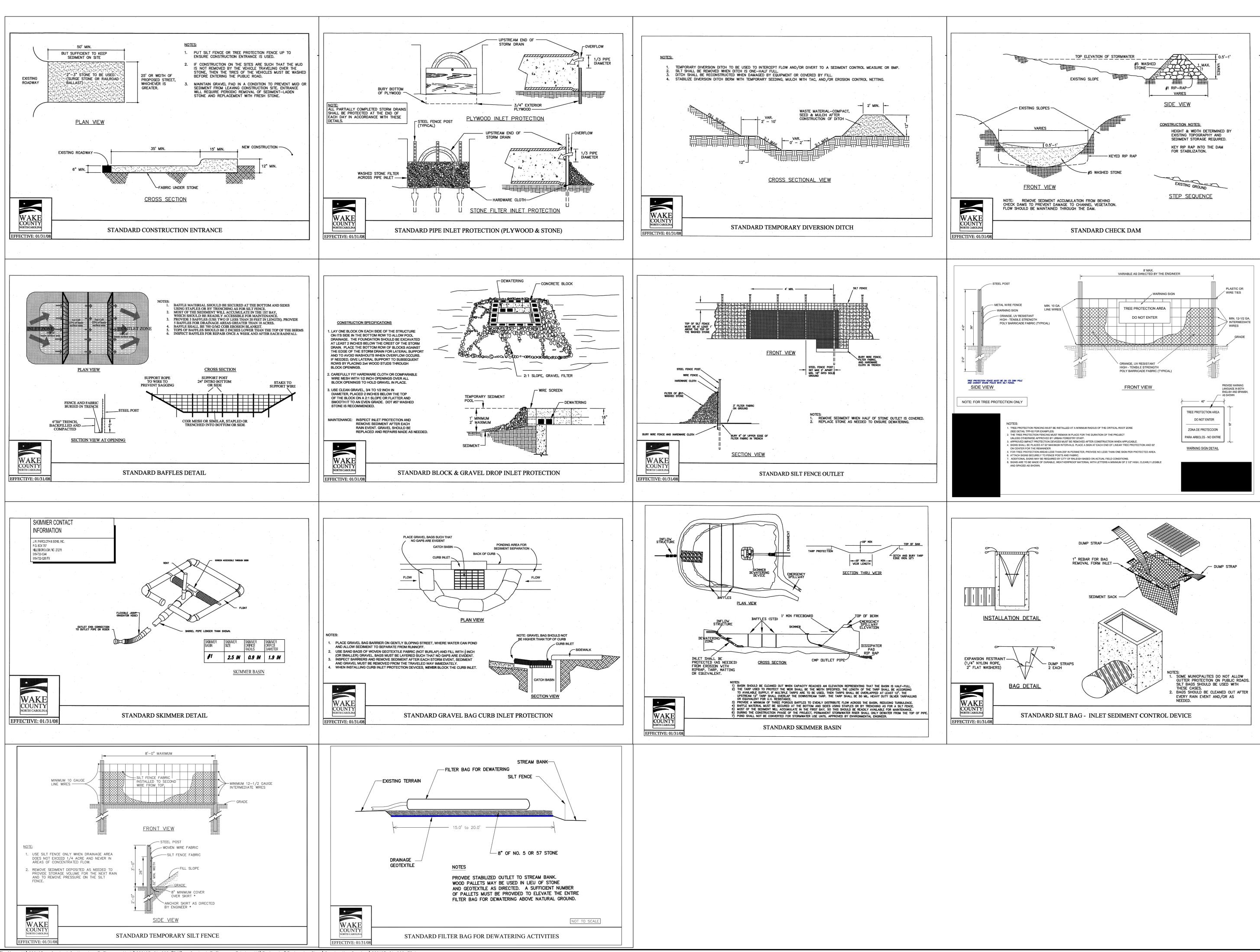
UTILITY SERVICE NOTES

WATER SERVICE

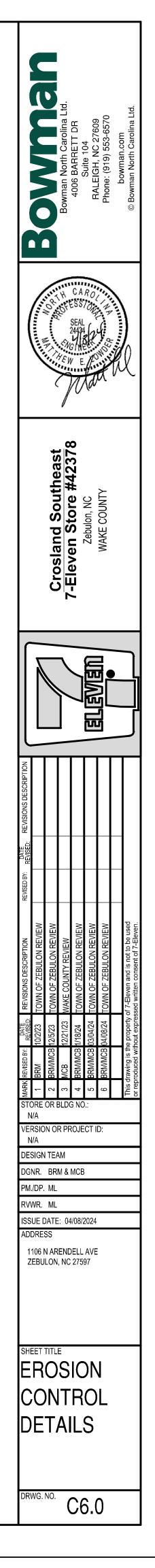
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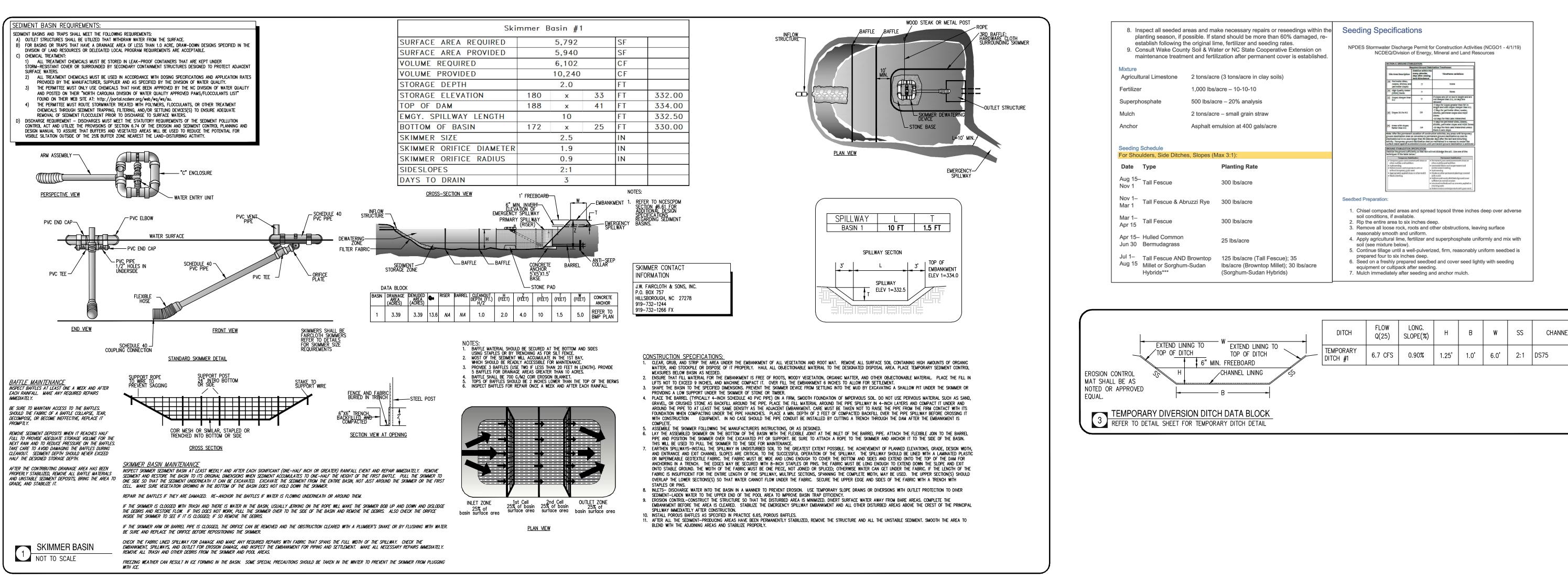


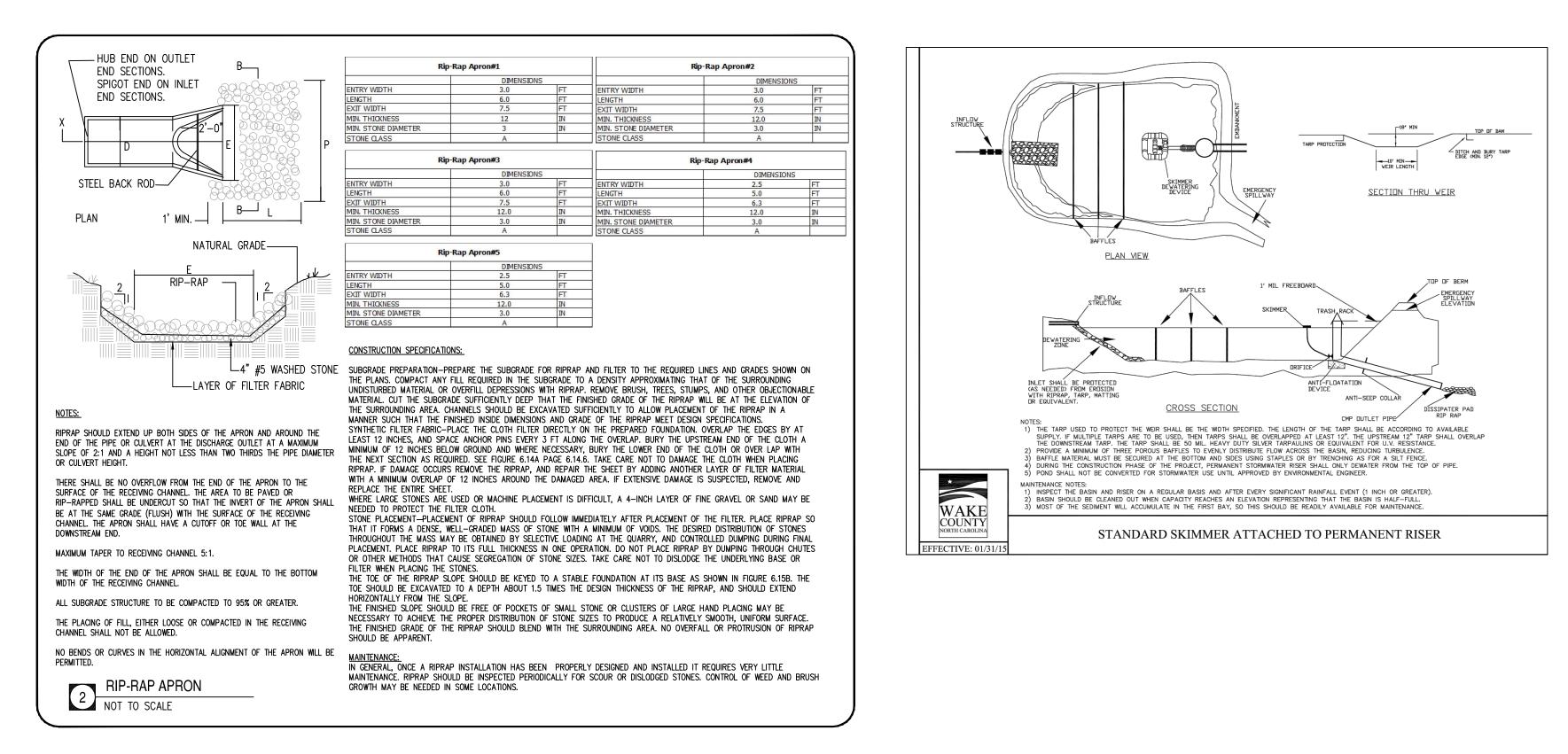
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Authorization to Construct	See digital
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The City of Raleigh consents to the co as shown on this plan. The material a conform to the standards and specific	and construction
City of Raleigh Public Utilities Department Permit #	S-5404
Authorization to Construct	See digital
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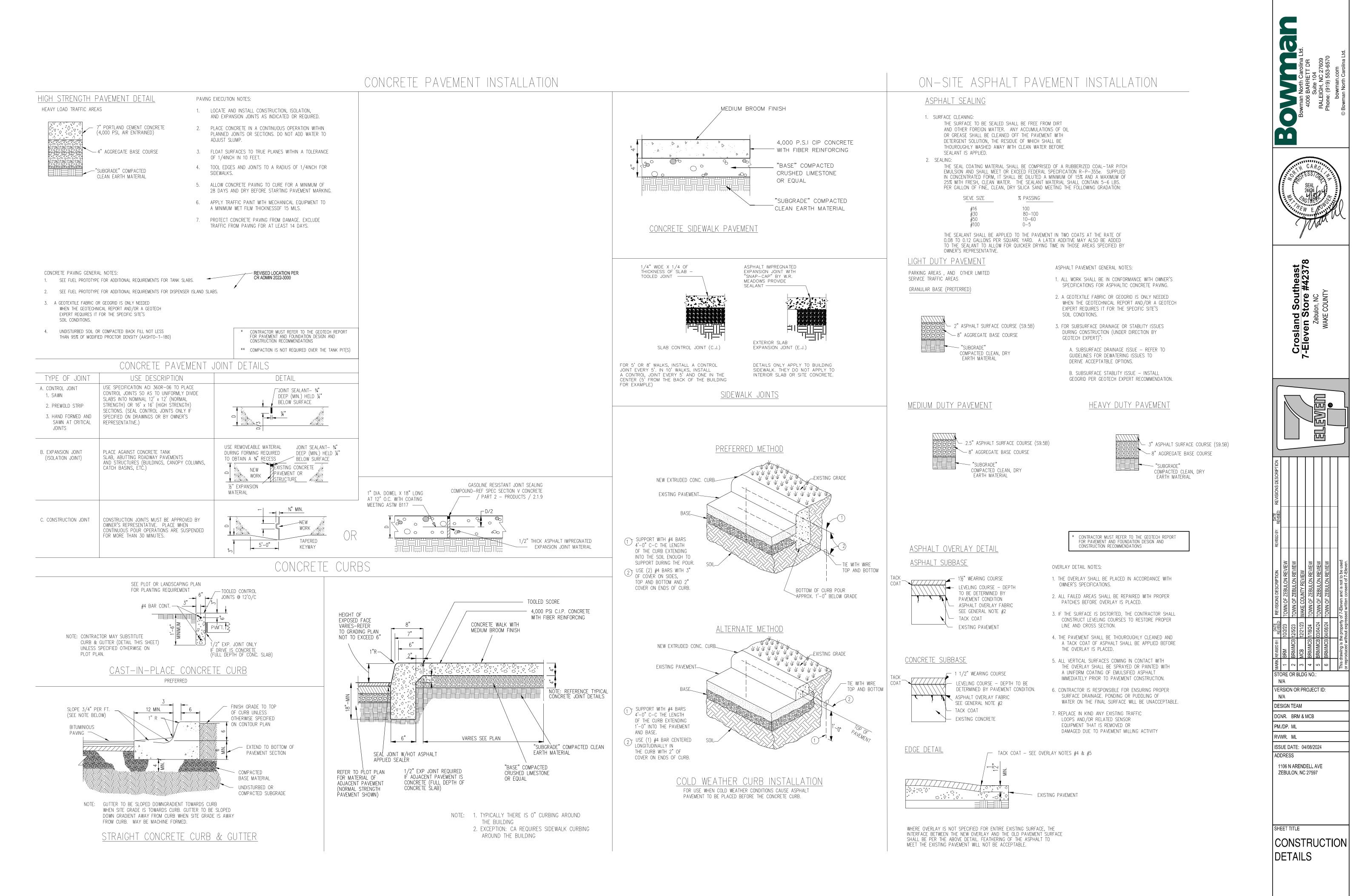




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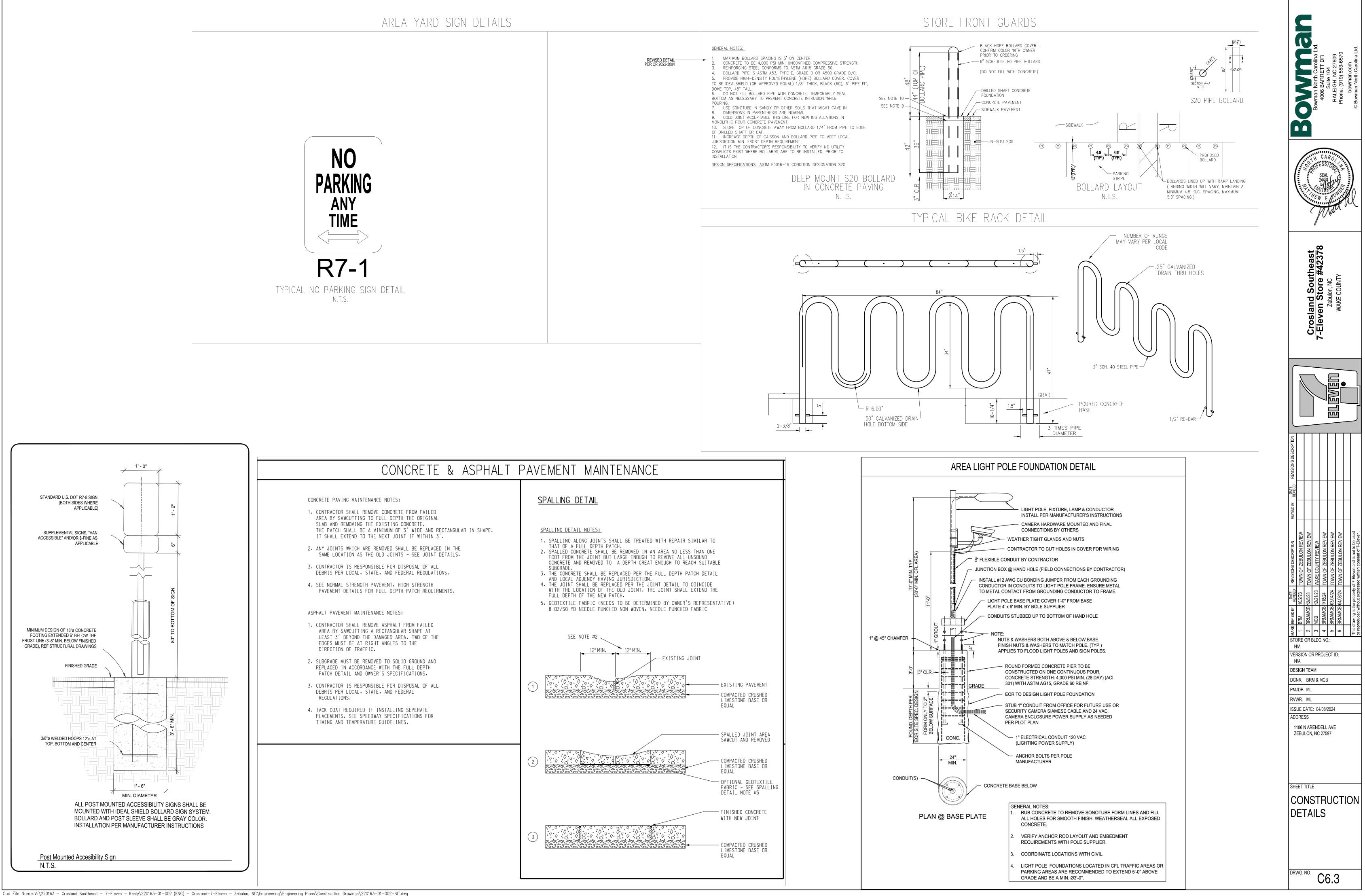
Crosland Southeast 7-Eleven Store #42378 Zebulon, NC 团 FORE OR BLDG NO .: VERSION OR PROJECT ID: DESIGN TEAM DGNR. BRM & MCB PM./DP. ML VWR. ML SSUE DATE: 04/08/2024 DDRESS 1106 N ARENDELL AVE ZEBULON, NC 27597 SHEET TITLE EROSION CONTRO DETAILS RWG. NC

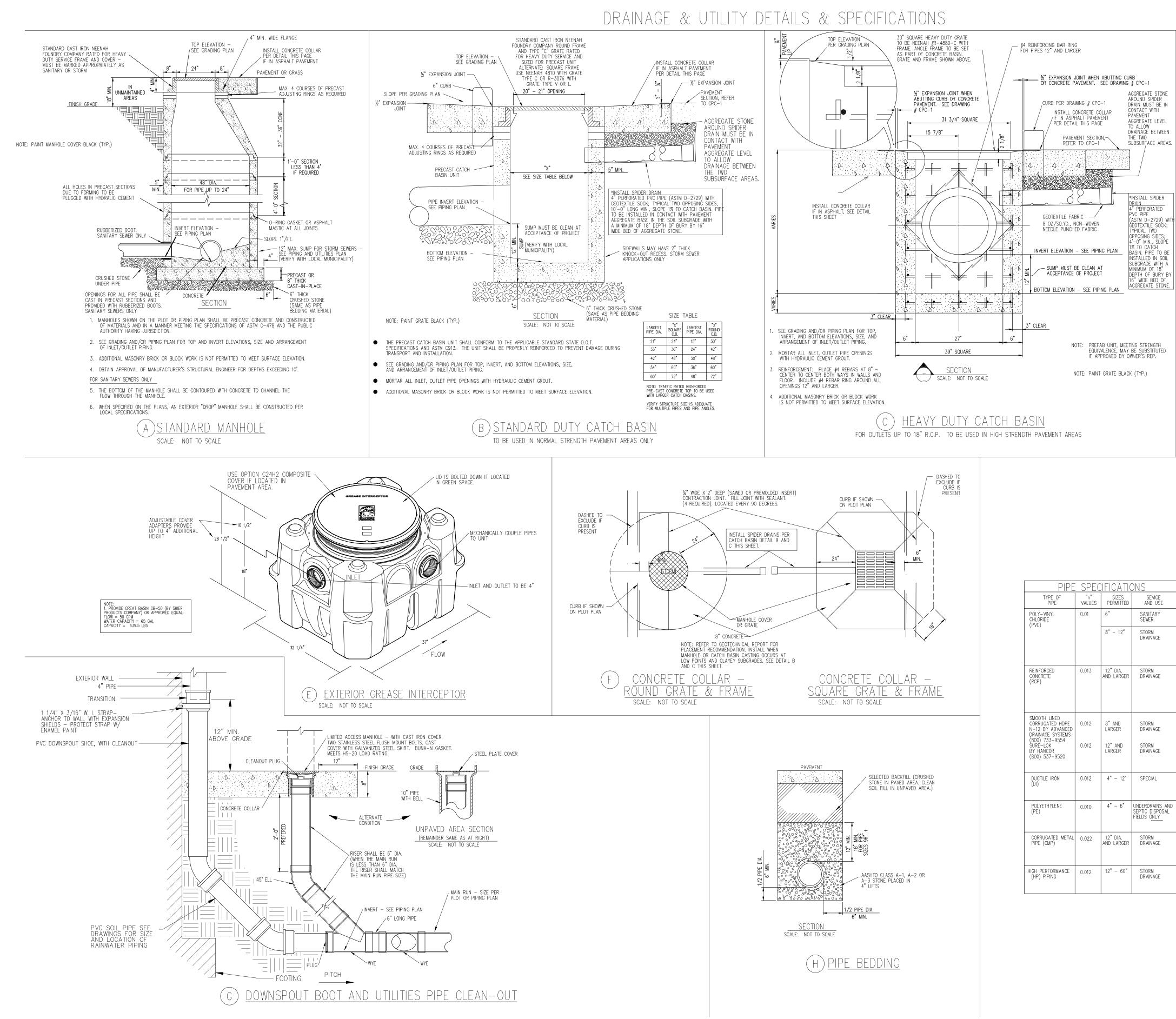
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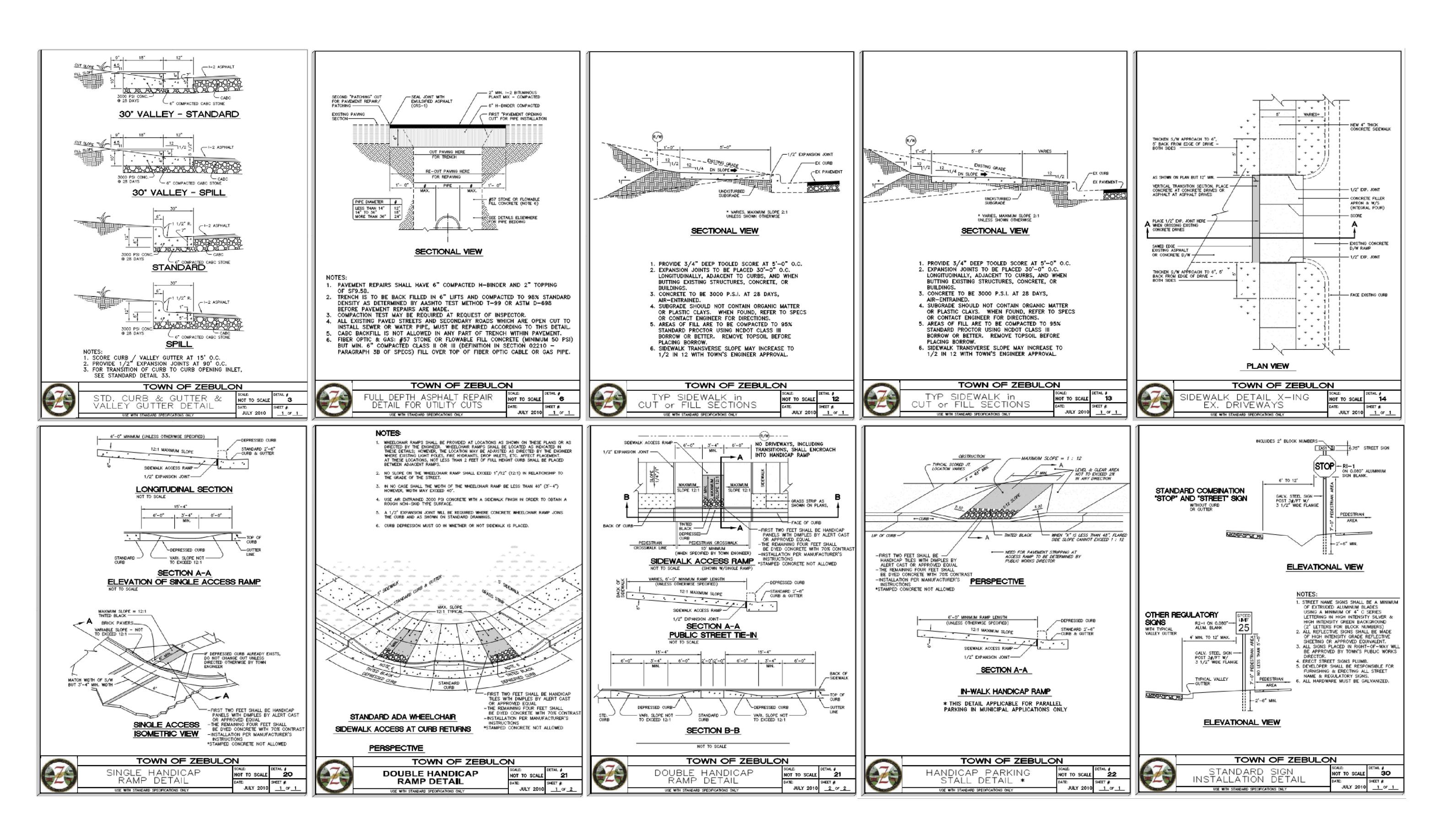
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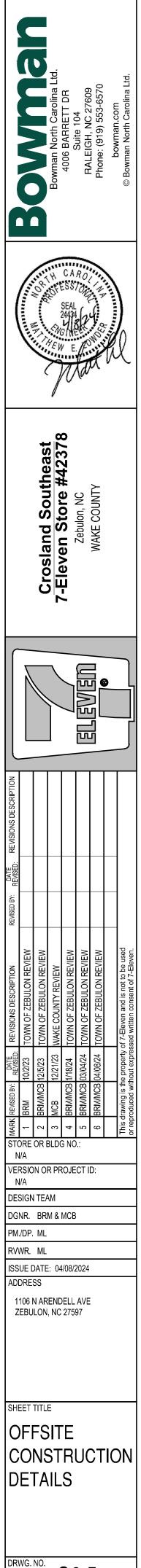
SHEET TITLE CONSTRUCTION DETAILS

	STANDARD SPECIFICATION FOR TYPE PSM PVC SEWER PIPE AND FITTINGS	INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE PIPE BEDDING PER DETAIL	FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPES USING FLEXIBLE ELASTOMERIC SEALS	JOINING PLASTIC PIPE (OIL RESISTANT) HIGH NITRILE (NBR), EPICHLOROHYDRIN (ECO), NEOPRENE (CR), POLYSULFIDE (T), OR FLUORO ELASTOMER (FPM)
	ASTM C-76, ASTM C1479 CLASS 3, WALL B- TONGUE AND GROOVE STANDARD SPECIFICATION FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE	PIPE BEDDING PER DETAIL WHEN OUTLETTING TO SURFACE GRADE FLARED END SECTION MUST BE USED	BITUMINOUS MASTIC	ASTM C-443 STANDARD SPECIFICATION FOR JOINTS FOR CIRCULAR CONCRETE SEWER AND CULVERT PIPE, USING RUBBER GASKETS (OIL RESISTANT)
	AASHTO M294-S AASHTO M294-S	ASTM D-2321 PIPE BEDDING PER DETAIL ASTM D-2321 PIPE BEDDING PER DETAIL	STANDARD COUPLERS (PRO LINK) USE GASKET IN FINE SOILS BELL & SPIGOT WITH GASKET (SURE-LOK)	PVC DOUBLE BELL COUPLER WITH GASKET (PRO LINK 10.8) AVAILABLE THROUGH 24" BELL & SPIGOT WITH POLYISOPRENE GASKET (SURE-LOK 10.8) AVAILABLE THROUGH 30"
	ASTM A-746 CLASS 50 STANDARD SPECIFICATION FOR DUCTILE IRON GRAVITY SEWER PIPE	PIPE BEDDING PER DETAIL	RUBBER GASKET COMPRESSION TYPE JOINT	GASKET TO BE OIL RESISTANT NITRILE-BUTADIENE (NBR)
I	ASTM F-405 STANDARD SPECIFICATION FOR CORRUGATED POLYETHYLENE TUBING AND FITTINGS	SEE UNDERDRAIN DETAIL	STANDARD COUPLINGS	N/A
	ASTM A-760 STANDARD SPECIFICATION FOR CORRUGATED METAL PIPE, METALLIC-COATED FOR SEWERS AND DRAINS	ASTM A-807 STANDARD SPECIFICATION FOR INSTALLING CORRUGATED METAL STRUCTURAL PLATE PIPE FOR SEWERS	STANDARD COUPLINGS	N/A
	AASHTO M330 ASTM F2881	ASTM D2321	WATER TIGHT ASTM D-3212	EXTENDED REINFORCED INTEGRAL BELL AND GASKETED SPIGOT

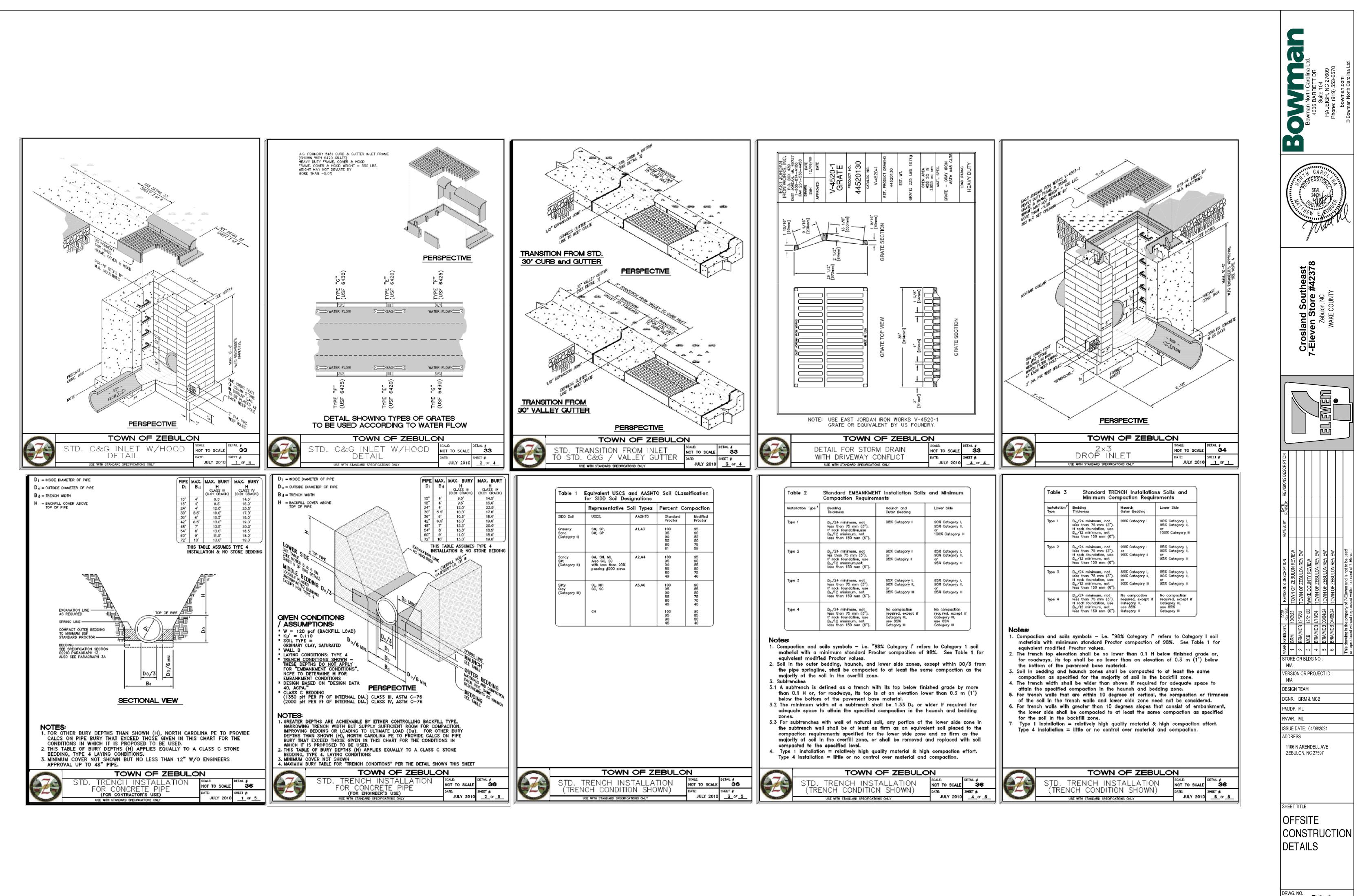
PIPE SPECIFICATION	INSTALLATION SPECIFICATION	JOINT SPECIFICATION	PREMIUM JOINTS
STM D-3034 SDR 35 TANDARD SPECIFICATION DR TYPE PSM PVC EWER PIPE AND FITTINGS	ASTM D-2321 STANDARD PRACTICE FOR INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE PIPE BEDDING PER DETAIL	ASTM D-3212 STANDARD SPECIFICATION FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPES USING FLEXIBLE ELASTOMERIC SEALS	ASTM F-477 ELASTOMERIC SEALS FOR JOINING PLASTIC PIPE (OIL RESISTANT) HIGH NITRILE (NBR), EPICHLOROHYDRIN (ECO), NEOPRENE (CR), POLYSULFIDE (T), OR FLUORO ELASTOMER (FPM)
STM C-76, ASTM C1479 LASS 3, WALL B- DNGUE AND GROOVE TANDARD SPECIFICATION DR REINFORCED CONCRETE JLVERT, STORM DRAIN, ND SEWER PIPE	PIPE BEDDING PER DETAIL WHEN OUTLETTING TO SURFACE GRADE FLARED END SECTION MUST BE USED	BITUMINOUS MASTIC	ASTM C-443 STANDARD SPECIFICATION FOR JOINTS FOR CIRCULAR CONCRETE SEWER AND CULVERT PIPE, USING RUBBER GASKETS (OIL RESISTANT)
ASHTO M294—S ASHTO M294—S	ASTM D-2321 PIPE BEDDING PER DETAIL ASTM D-2321 PIPE BEDDING PER DETAIL	STANDARD COUPLERS (PRO LINK) USE GASKET IN FINE SOILS BELL & SPIGOT WITH GASKET (SURE-LOK)	PVC DOUBLE BELL COUPLER WITH GASKET (PRO LINK 10.8) AVAILABLE THROUGH 24" BELL & SPIGOT WITH POLYISOPRENE GASKET (SURE-LOK 10.8) AVAILABLE THROUGH 30"
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STM F-405 TANDARD SPECIFICATION DR CORRUGATED DLYETHYLENE TUBING ND FITTINGS	SEE UNDERDRAIN DETAIL	STANDARD COUPLINGS	N/A
STM A-760 TANDARD SPECIFICATION DR CORRUGATED METAL PE, METALLIC-COATED FOR WERS AND DRAINS	ASTM A-807 STANDARD SPECIFICATION FOR INSTALLING CORRUGATED METAL STRUCTURAL PLATE PIPE FOR SEWERS	STANDARD COUPLINGS	N/A
ASHTO M330 STM F2881	ASTM D2321	WATER TIGHT ASTM D-3212	EXTENDED REINFORCED INTEGRAL BELL AND

Bowman North Carolina Ltd. Bowman North Carolina Ltd. 4006 BARRETT DR Suite 104 RALEIGH, NC 27609 Phone: (919) 553-6570 bowman.com									
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	Crosland Southeast 7-Eleven Store #42378 Zebulon, NC WAKE COUNTY								
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MARK REVISED BY: DATE REVISIONS DESCRIPTION Town of ZEBULON REVIEW	2 BRM/MCB 12/5/23 3 MCB 12/5/23	4 BRM/MCB	5 BRM/MCB 03/04/24	6 BRM/MCB 04/08/24 TOWN OF ZEBULON REVIEW	This drawing is the property of 7-Eleven and is not to be used or reproduced without expressed written consent of 7-Eleven.				
Image: Store or bldg no.: N/A VERSION OR PROJECT ID: N/A DESIGN TEAM DGNR. BRM & MCB PM./DP. ML RVWR. ML ISSUE DATE: 04/08/2024 ADDRESS 1106 N ARENDELL AVE ZEBULON, NC 27597									



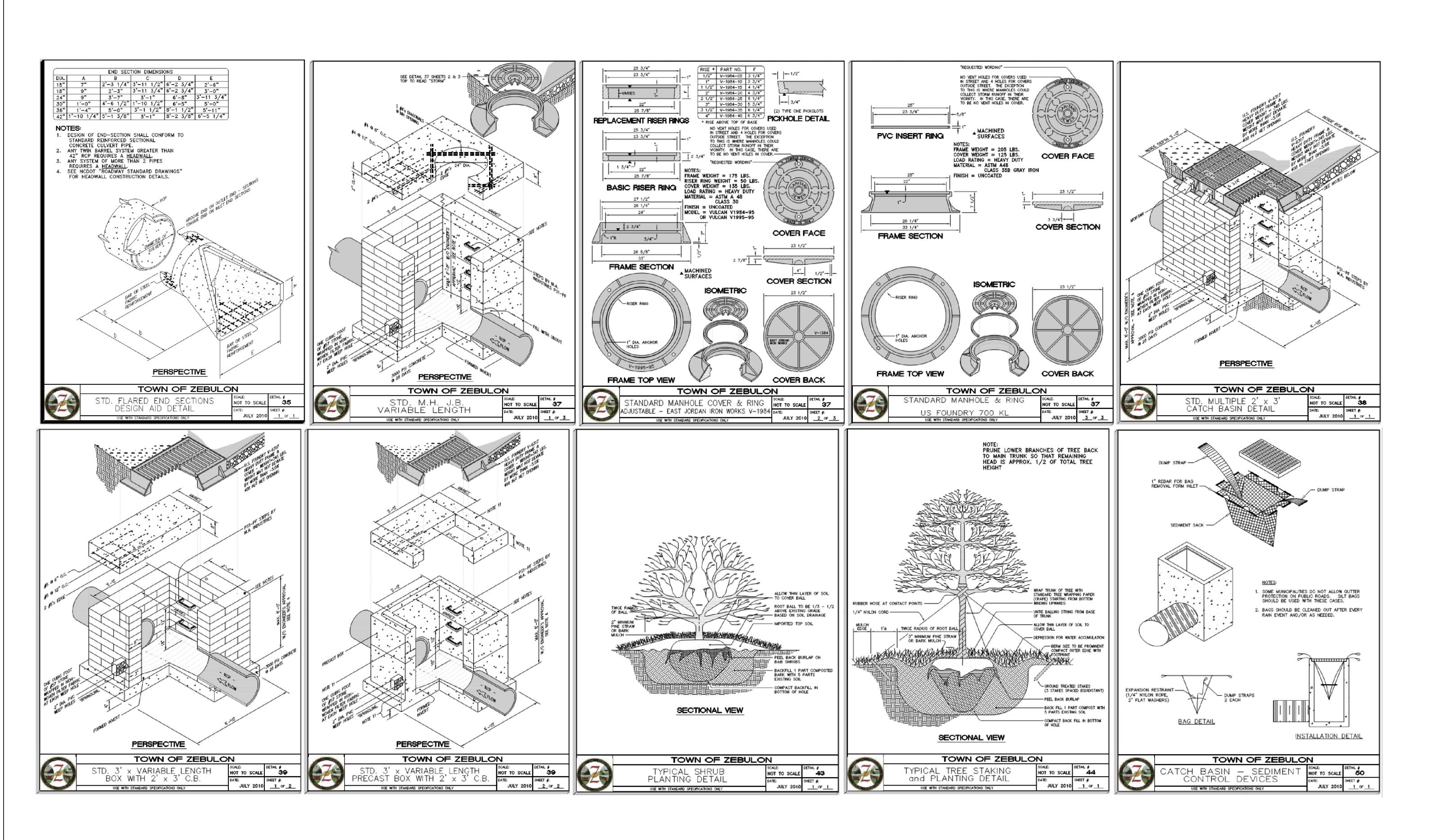


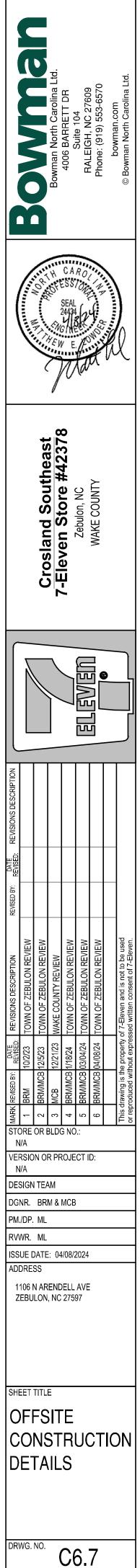
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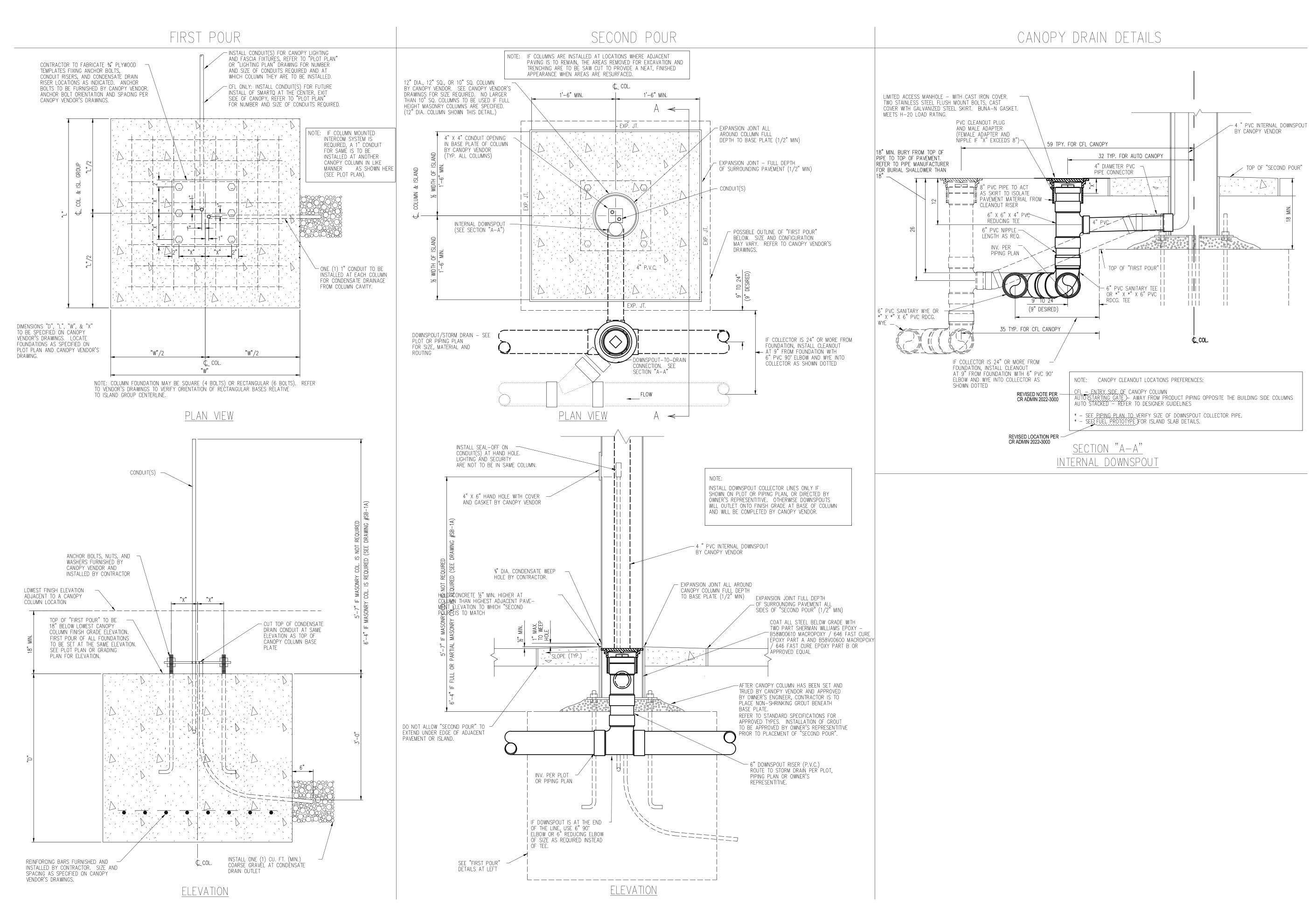


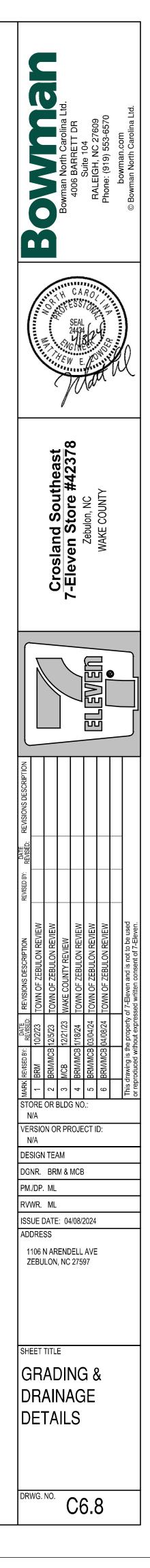
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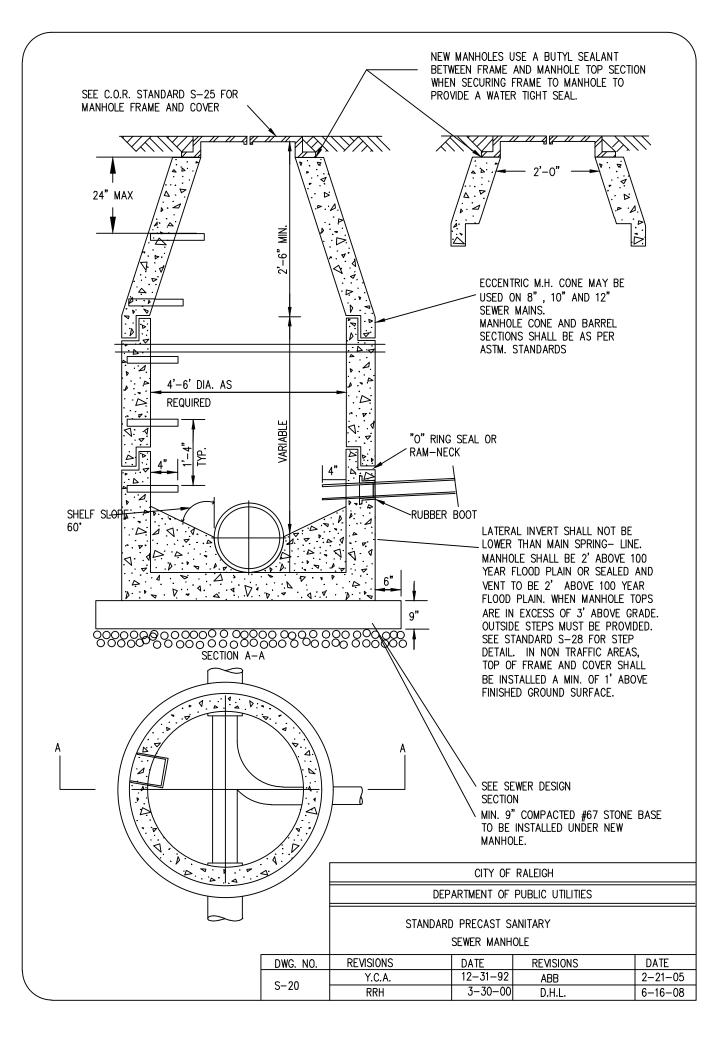
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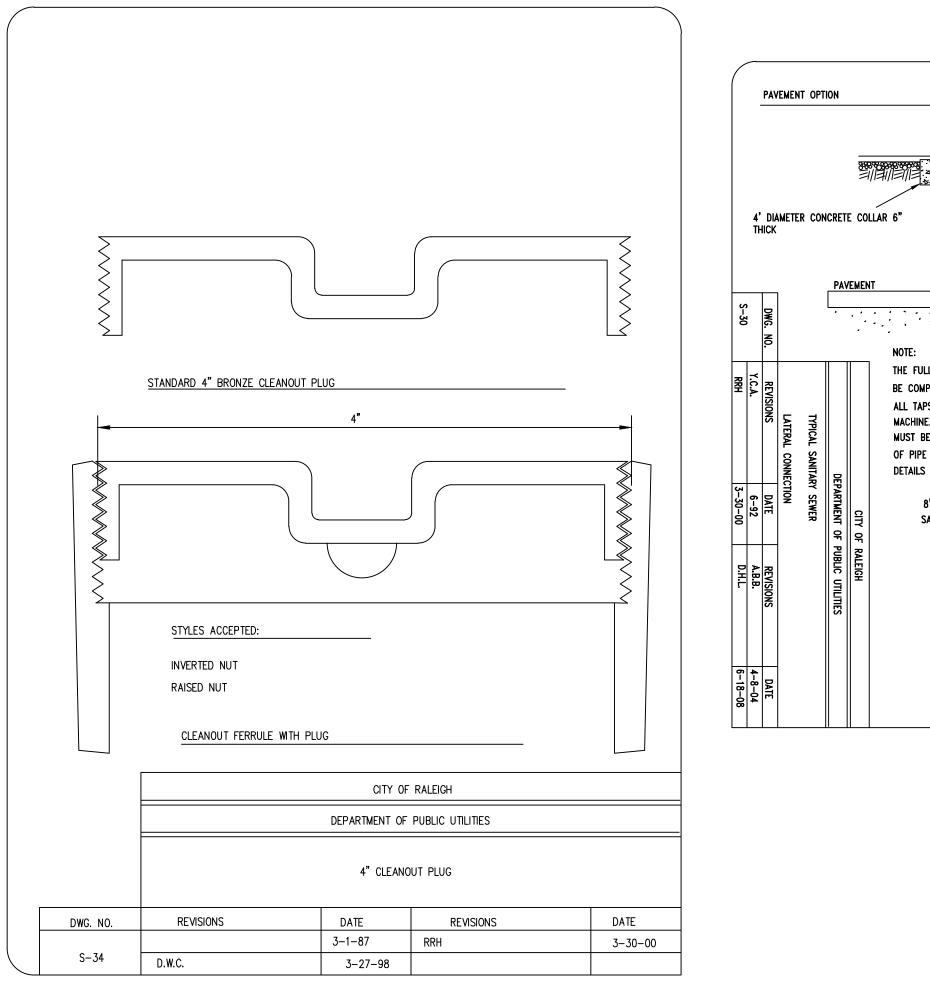


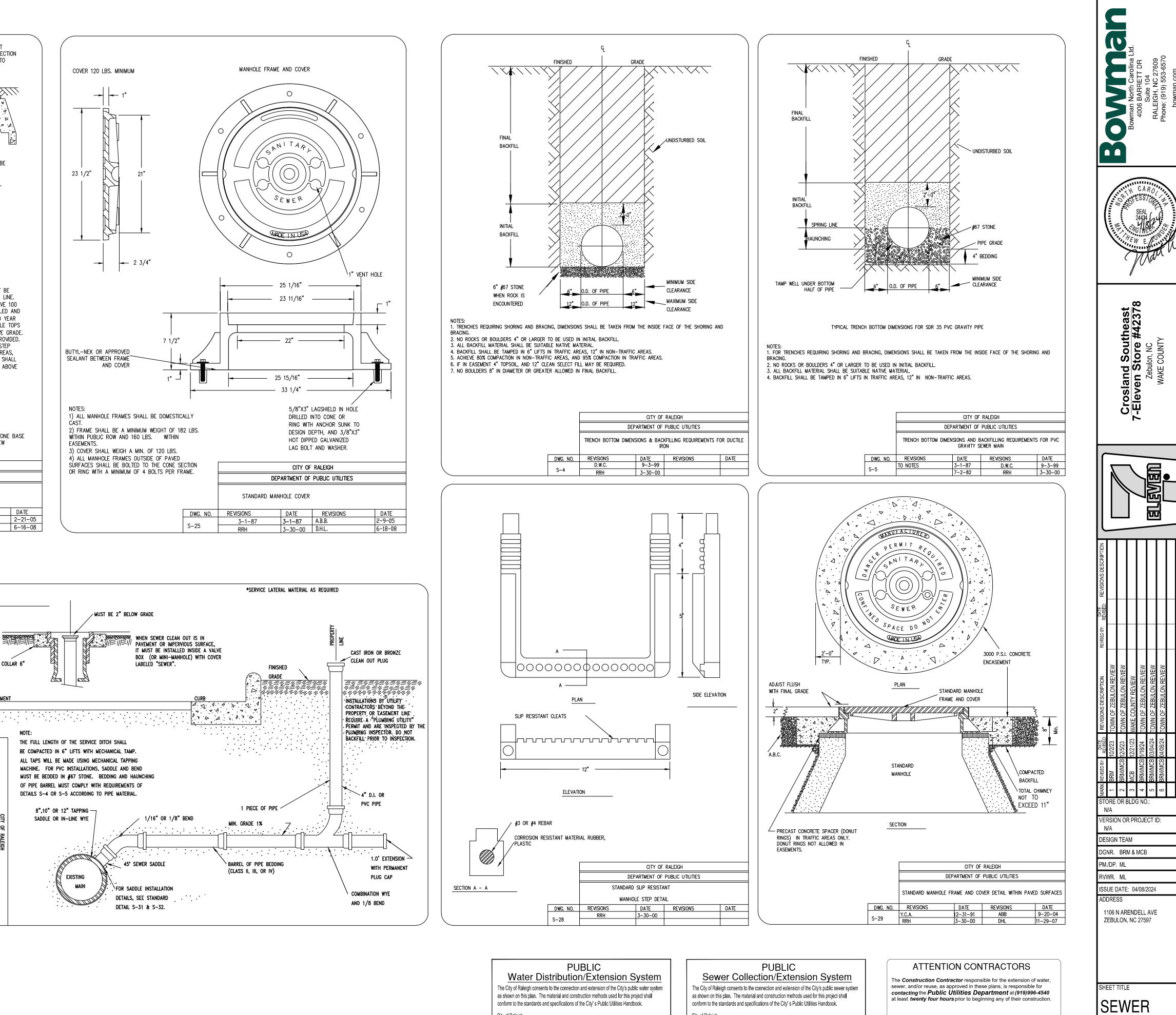












PUBLIC Water Distribution/Extension System						
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City of Raleigh Public Utilities Department Permit #	W-4087					
Authorization to Construct See digital signature						
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City of Raleigh
Public Utilities Department Permit # <u>S-5404</u>

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Authorization to Construct

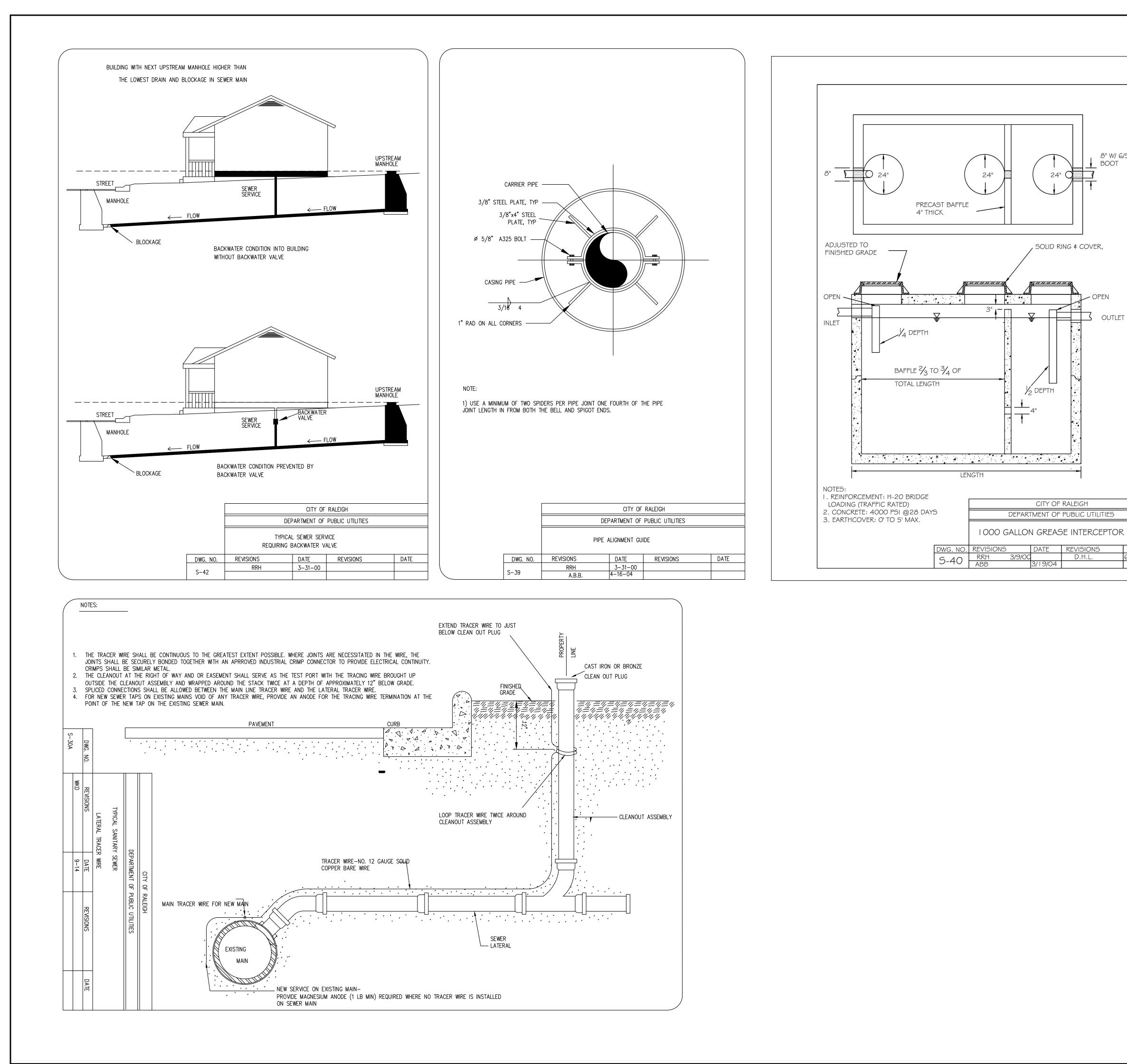
Failure to notify both City Departments in advance of beginning construction, will result in the issuance of *monetary fines*, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

DETAILS

C6.9

RWG NO.

Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standardswill result in a Fine and Possible Exclusion from future work in the City of Raleigh.



PUBLIC Water Distribution/Extension System The City of Raleigh consents to the connection and extension of the City's public water system

as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh
Public Utilities Department Permit # <u>W-4087</u>

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8" W/ 6/5/4"

BOOT

OUTLET

DATE 6/18/08

PUBLIC Sewer Collection/Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # <u>S-5404</u> See digital signature Authorization to Construct

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the **Public Utilities Department** at (919)996-4540 at least **twenty four hours** prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

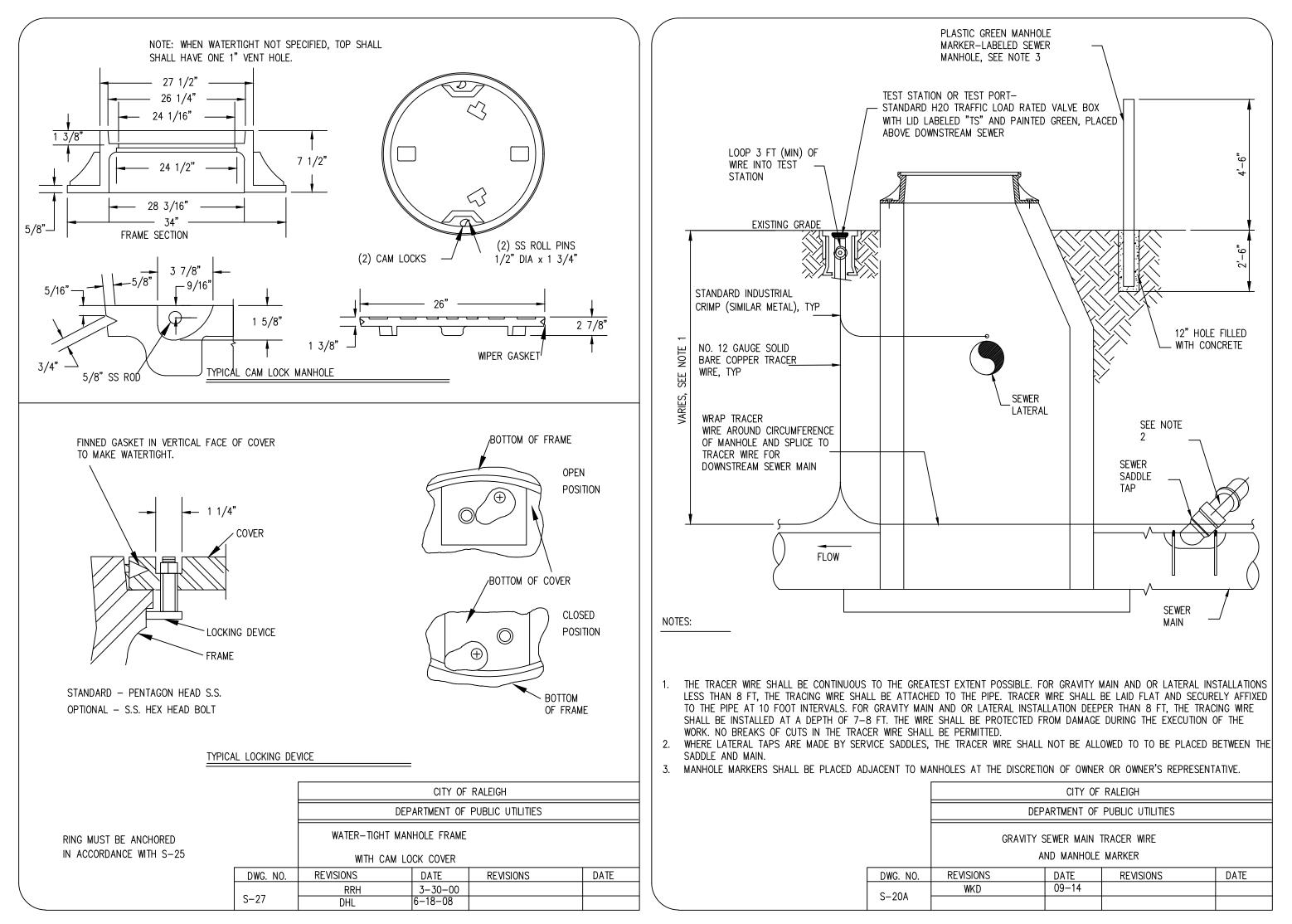
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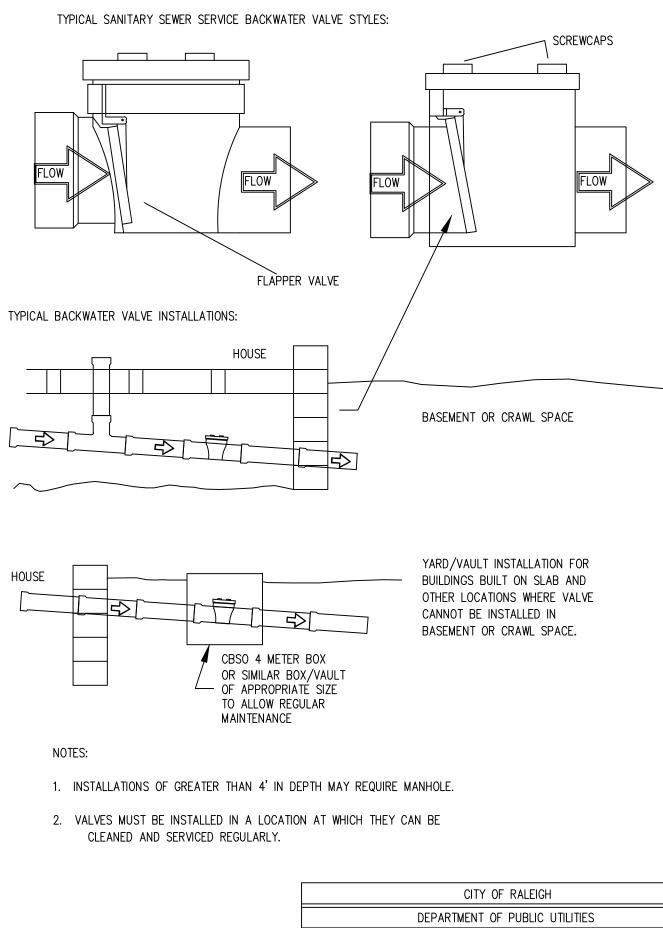
		Bowman North Carolina Ltd.	4006 BARRETT DR	BALFIGH, NC 27609	Phone: (919) 553-6570	bowman.com
THINK I	THAT WALL THE	F OAL SWEEK	CA SEAL 24434 7	RO DE AND	A A A A A	
	Crocland Southeast	7 Eloviand Oddinedsi		Zebulon, NC	WAKE COUNTY	
REVISIONS DESCRIPTION						
D. REVISIONS DESCRIPTION REVISED BY: DATE TOWNLOT FIDIN DATE IN THE REVISED.	33 TOWN OF ZEBULON REVIEW	23 WAKE COUNTY REVIEW	4 TOWN OF ZEBULON REVIEW	24 TOWN OF ZEBULON REVIEW	24 TOWN OF ZEBULON REVIEW	This chaminn is the nonnerty of 7.Eleven and is not to be used
N/A VERS N/A DESIG DGNF PM./D RVWF	BRWIWCB - C - C - C - C - C - C - C - C - C - C	R PR AM M & I	ROJE MCB	CT II	G BRM/MCB 04/08/24	This drawing is the pro-
ADDF 110 ZEE SHEE		REND I, NC	ELL 2759	AVE 97		

C6.10

DETAILS

DRWG. NO.





ENT TO MA								
	CITY OF RALEIGH							
	DEPARTMENT OF PUBLIC UTILITIES							
	GRAVITY SEWER MAIN TRACER WIRE AND MANHOLE MARKER							
WG. NO.	REVISIONS	DATE	REVISIONS	DATE				
S-20A	WKD	09-14						
5-20A								

CITY OF RALEIGH					
	DEP	ARTMENT OF	PUBLIC UTILITIES		
	TYPICAL SANITARY SEWER SERVICE BACK- WATER VALVE INSTALLATION				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-38	RRH	3-31-00			

PUBLIC

Water Distribution/Extension System The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # <u>W-4087</u> Authorization to Construct See digital signature

PUBLIC

Sewer Collection/Extension System The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # <u>S-5404</u> Authorization to Construct

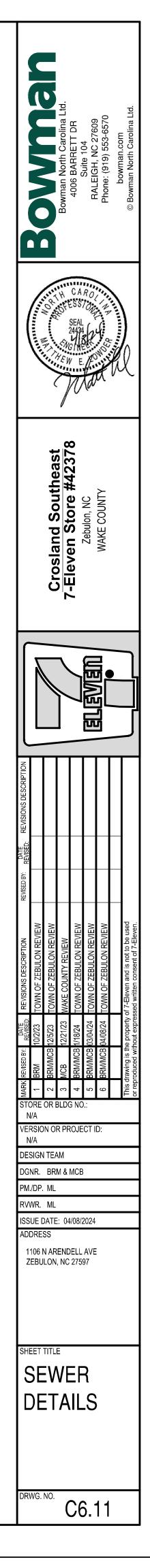
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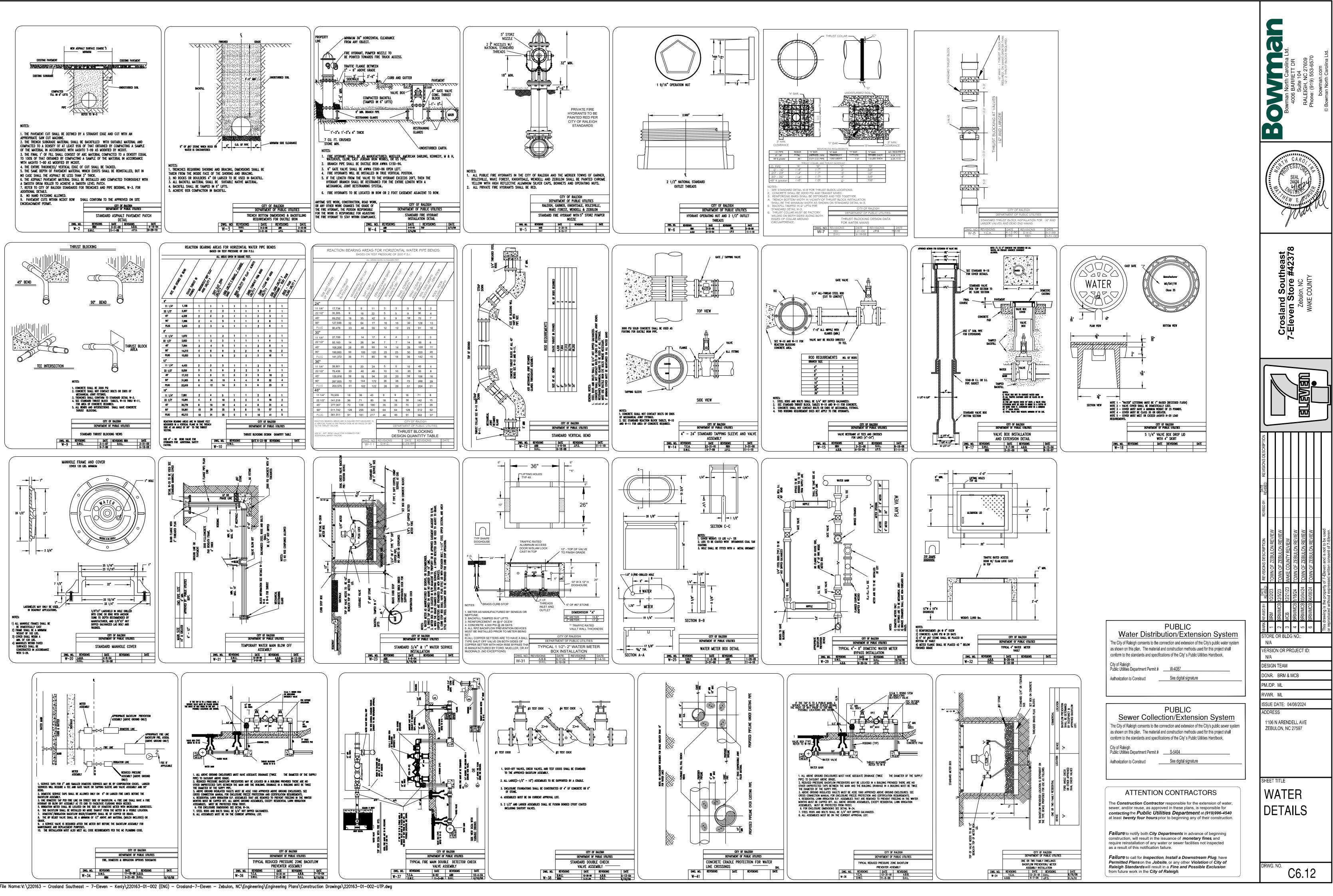
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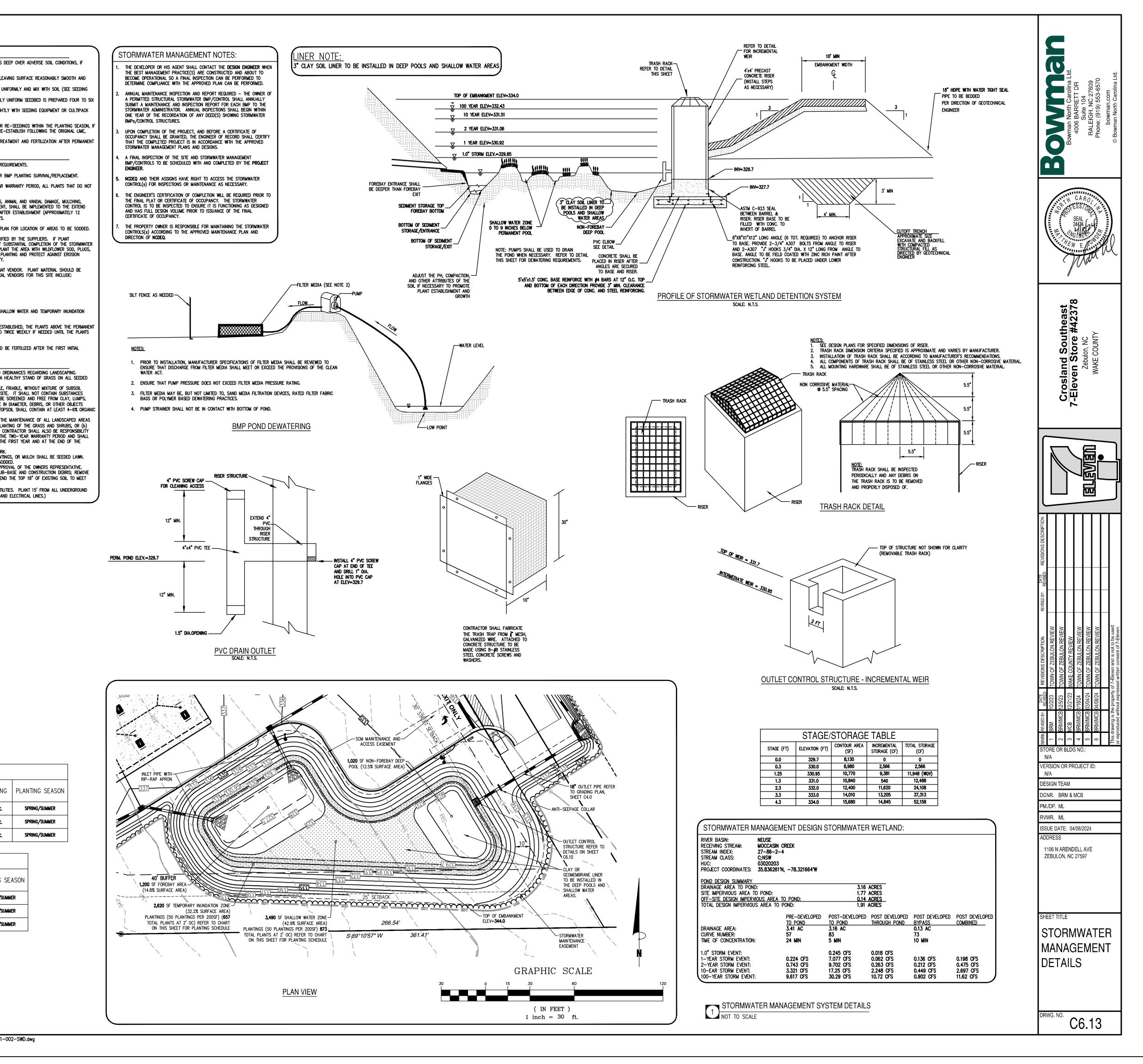
Cad File Name: V: \220163 - Crosland Southeast - 7-Eleven - Kenly \220163-01-002 (ENG) - Crosland-7-Eleven - Zebulon, NC \Engineering \Engineering \Engineering Plans \Construction Drawings \220163-01-002-UTP.dwg

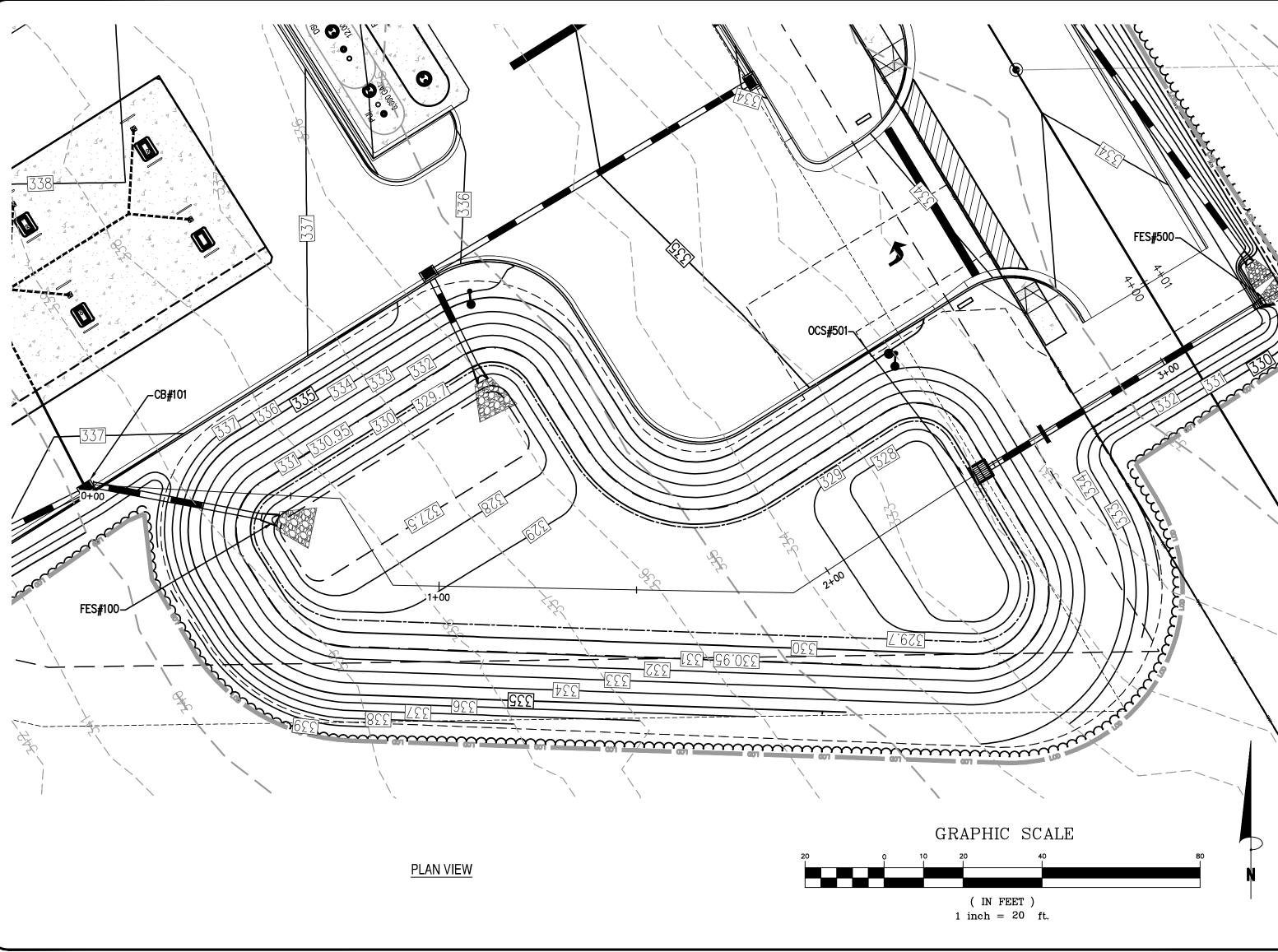
SCM element:	Potential problems:	How to remediate the problem:	SEEDBED PREPARATION:
The entire wetland	Trash/debris is present.	Remove the trash/debris.	CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE S AVAILABLE.
The perimeter of wetland	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary to remove the gully, and then plant a ground cover and water until it is established. Provide lime and a one-time fertilizer application.	 RIP THE ENTIRE AREA TO SIX INCHES DEEP. RIP THE ENTIRE AREA TO SIX INCHES DEEP. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASO UNIFORM. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WIT MIXTURE). CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS INCHES DEEP.
	The inlet pipe is clogged (if applicable).	Unclog the pipe. Dispose of the sediment in a location where it will not cause impacts to streams or the SCM.	 SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUI AFTER SEEDING. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RE-SEEDINGS WITHIN POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING
Inlet device	The inlet pipe is cracked or otherwise damaged (if applicable).	Repair or replace the pipe.	FERTILIZER AND SEEDING RATES. 9. CONSULT S&EC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZA COVER IS ESTABLISHED.
	Erosion is occurring in the swale (if applicable).	Regrade the swale if necessary and provide erosion control devices such as reinforced turf matting or riprap to avoid future problems with erosion.	LANDSCAPING NOTES: ALL LANDSCAPING SHALL BE IN COMPLIANCE WITH THE NCDEQ BMP REQUIREMENTS. LANDSCAPE CONTRACTOR SHALL PROVIDE A TWO-YEAR WARRANTY FOR BMP PLANTING SURVIV. AT THE END OF THE FIRST YEAR AND AT THE END OF THE TWO-YEAR WARRANTY PERIOD, AL
Forebay	Sediment has accumulated in the forebay to a depth of less than 15" or that inhibits the forebay from functioning well.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.	SURVIVE MUST BE REPLACED. ESTABLISHMENT PROCEDURES, SUCH AS CONTROL OF INVASIVE WEEDS, ANIMAL AND VANDAL D RE-STAKING, WATERING, AND MESH OR TUBE PROTECTION REPLACEMENT, SHALL BE IMPLEMEN NEEDED TO ENSURE PLANT SURVIVAL. STAKING MUST BE REMOVED AFTER ESTABLISHMENT (A MONTHS), TO PREVENT GIRDLING (STRANGLING) OF ALL WOODY PLANTS. SOD TO BE BERMUDA OR CENTIPEDE GRASS. REFER TO LANDSCAPE PLAN FOR LOCATION OF
	Erosion has occurred.	Provide additional erosion protection such as reinforced turf	GRASS OR WILDFLOWER SEED MUST BE APPLIED AT THE RATES SPECIFIED BY THE SUPPLIERS ESTABLISHMENT CANNOT BE ACHIEVED WITH SEEDING BY THE TIME OF SUBSTANTIAL COMPLETIC FACILITY PORTION OF THE PROJECT, THEN THE CONTRACTOR SHALL PLANT THE AREA WITH WI CONTAINER PLANTS, OR OTHER MEANS TO COMPLETE THE SPECIFIED PLANTING AND PROTECT
		matting or riprap if needed to prevent future erosion problems.	BEFORE WATER IS ALLOWED TO ENTER THE STORMWATER BMP FACILITY.
	Weeds are present.	Remove the weeds, preferably by hand. If a pesticide is used, wipe it on the plants rather than spraying.	ALL MATERIALS SHALL BE ACQUIRED FROM AN APPROVED NCDEQ PLANT VENDOR. PLANT MAT PURCHASED FROM A LOCAL SOURCE TO ENSURE SURVIVABILITY. LOCAL VENDORS FOR THIS S - CILL IDE NATIVE PLANT NURSERY 919–662–5566 - GROWING WILD NURSERY 910–259–6361 - NC FOREST SERVICE 919–731–7988
	Algal growth covers over 30% of the deep pool and shallow water areas.	Consult a professional to remove and control the algal growth.	 PLANT DELIGHTS NURSERY 919-772-4794 TARHEEL NATIVE TREES 919-553-5927 REFER TO PLANTINGS ON THIS SHEET FOR TYPE AND LOCATION OF SHALLOW WATER AND TEM ZONE PLANTINGS.
Deep pool, shallow water and shallow	Cattails, phragmites or other invasive plants cover 30% of the deep pool and shallow water areas.	Remove the invasive plants by hand or by wiping them with pesticide (do not spray) – consult a professional.	IMMEDIATELY AFTER THE STORMWATER WETLAND DETENTION POND IS ESTABLISHED, THE PLANTS POOL ELEVATION AND PERIMETER OF THE BASIN SHOULD BE WATERED TWICE WEEKLY IF NEED BECOME ESTABLISHED (COMMONLY SIX WEEKS)
	The temporary inundation zone remains flooded more than 5 days after a storm event.	Unclog the outlet device immediately.	NO PORTION OF THE STORMWATER WETLAND DETENTION POND SHOULD BE FERTILIZED AFTER FERTILIZATION THAT IS REQUIRED TO ESTABLISH THE PLANTS. <u>LANDSCAPING NOTES:</u> 1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES REGARDING
land areas	Plants are dead, diseased or dying.	Determine the source of the problem: soils, hydrology, disease, etc. Remedy the problem and replace plants. Provide a one-time fertilizer application to establish the ground cover if necessary.	 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A HEALTHY STAND OF GI AREAS. CONTRACTOR SHALL PROVIDE NATURAL TOPSOIL THAT IS FERTILE, FRIABLE, WITHOUT MIX MATERIALS, AND OBTAINED FROM A WELL DRAINED, AVAILABLE SITE. IT SHALL NOT COI WHICH MAY BE HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE SCREENED AND FREE STONES, ROOTS, PLANTS, OR SIMILAR SUBSTANCES 1" OR MORE IN DIAMETER, DEBRIS, O WHICH MIGHT BE A HINDERANCE TO PLANTING OPERATIONS. TOPSOIL SHALL CONTAIN MATTER BY WEIGHT AND HAVE A PH RANGE OF 5.5 TO 7.0.
	Sediment has accumulated and reduced the depth to 75% of the original design depth of the deep pools.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.	 CONTRACTOR SHALL BE RESPONSIBLE FOR THE WATERING AND THE MAINTENANCE OF AU UNTIL THE LATER OF; (a) THIRTY (30) DAYS FOLLOWING THE PLANTING OF THE GRASS THE DATE THAT STORE OPENS FOR BUSINESS TO THE PUBLIC. CONTRACTOR SHALL ALL FOR THE SURVIVAL OF THE BMP PLANTING MATERIALS DURING THE TWO-YEAR WARRAN' REPLACE ALL PLANTS THAT DO NOT SURVIVE AT THE END OF THE FIRST YEAR AND AT SECOND YEAR OF THE WARRANTY PERIOD. CONTRACTOR TO VERIFY QUANTITIES PRIOR TO COMMENCING WORK. ANY DISTURBED AREAS NOT SCHEDULED FOR HARDSCAPE, PLANTINGS, OR MULCH SHALL
	A tree has started to grow on the embankment.	If tree is <6" in diameter, remove the tree. If the tree is >6" in diameter, consult a dam safety specialist to remove the tree.	REFER TO LANDSCAPE PLAN FOR LOCATION OF AREAS TO BE SODDED. 7. NO PLANT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL OF THE OWNERS 8. FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUC COMPACTED SOIL AND ADD 18" NEW TOPSOIL, OR TILL AND AMEND THE TOP 18" OF EX TOPSOIL/PLANTING MIX STANDARDS FOR TREES. 9. ADJUST TREE PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES. PLANT 15' FRO
Embankment	An annual inspection by an appropriate professional shows that the embankment needs repair.	Make all needed repairs.	UTILITIES (SEWER AND STORM DRAINAGE, GAS, WATER, PHONE, AND ELECTRICAL LINES.)
	Evidence of muskrat or beaver activity is present.	Consult a professional to remove muskrats or beavers and repair any holes or erosion.	
Micropool	Sediment has accumulated and reduced the depth to 75% of the original design depth.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.	
Outlet Structure	Clogging has occurred.	Clean out the outlet device. Dispose of the sediment off-site.	
	The outlet device is damaged	Repair or replace the outlet device.	
Receiving water	Erosion or other signs of damage have occurred at the outlet.	Repair the damage and improve the flow dissipation structure.	
the second se	Discharges from the wetland are		

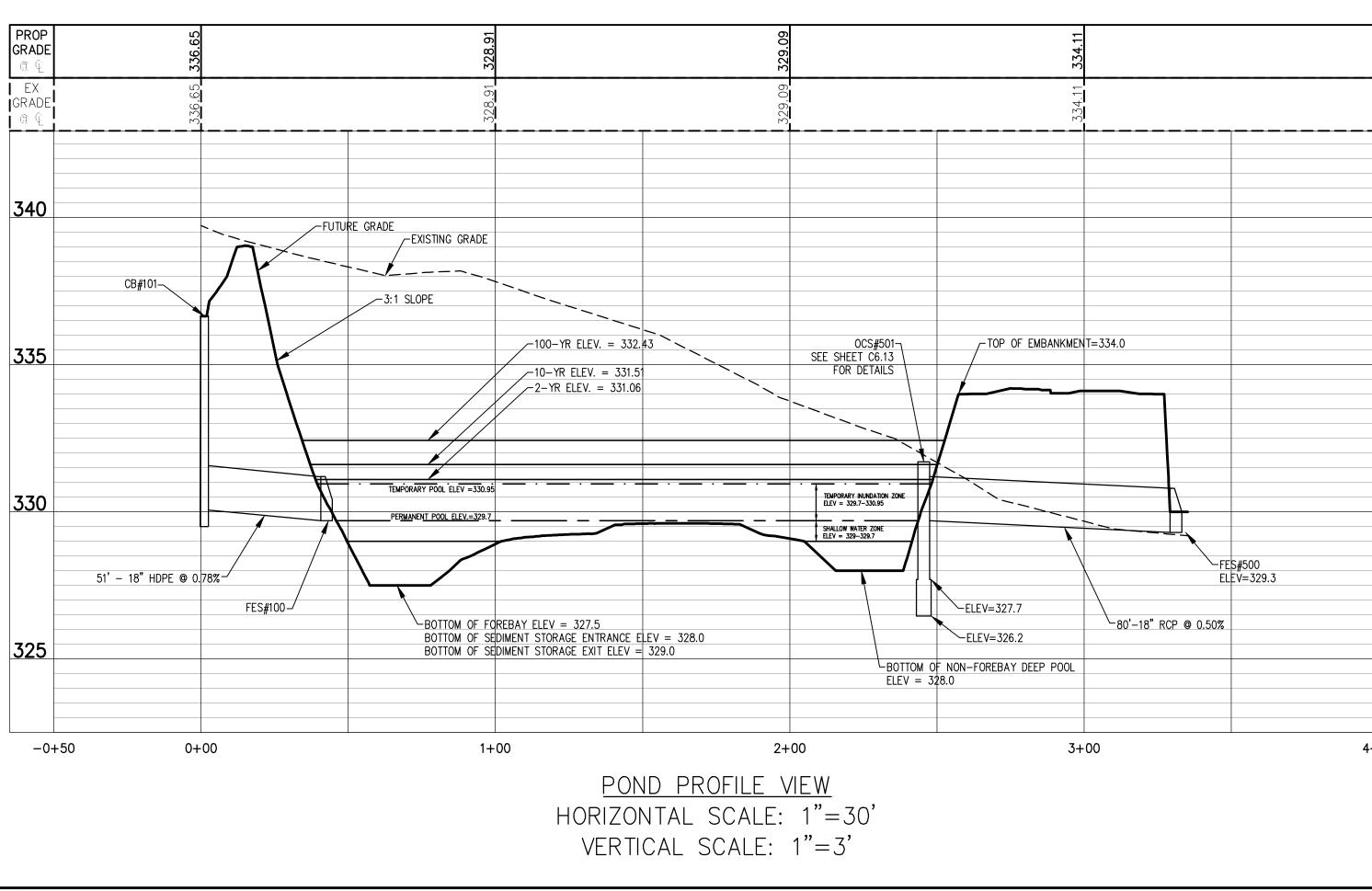
	TYPICAL SHALLOW WATER PLANTING SCHEDULE										
	SCIENTIFIC NAME	COMMON NAME	PLANTING ZONE	QUANTITY	HEIGHT	IDEAL DEPTH	NURSERY CONTAINER TYPE	SPACING	PLANTING SEASON		
+ + + +	Juncus effusus	Common Rush	SHALLOW WATER	291	9" FOLIAGE HEIGHT	0-2*	4" TEA POT	2° 0.C.	SPRING/SUMMER		
- + + +	Lilaeopsis carolinensis	Carolina Grasswort	SHALLOW WATER	291	9" FOLIAGE HEIGHT	0-9"	4" TEA POT	2° 0.C.	SPRING/SUMMER		

TYPICAL	TEMPORARY	INUNDATION	ZONE	PLANTING	SCHEDULE

SCIENTIFIC NAME	COMMON NAME	PLANTING ZONE	QUANTITY	HEIGHT	NURSERY CONTAINER TYPE	SPACING	PLANTING SEASON
Eutrochium dubium	Coastal Joy Pye Weed	SHALLOW LAND	219	9" FOLIAGE HEIGHT	4" TEA POT	2' O.C.	SPRING/SUMMER
Eupatorium erfoliatum	Boneset	SHALLOW LAND	219	9" FOLIAGE HEIGHT	4" TEA POT	2° 0.C.	SPRING/SUMMER
Rhynchospora colorata	Starrush Whitetop	SHALLOW LAND	219	9" FOLIAGE HEIGHT	4" TEA POT	2' 0.C.	SPRING/SUMMER

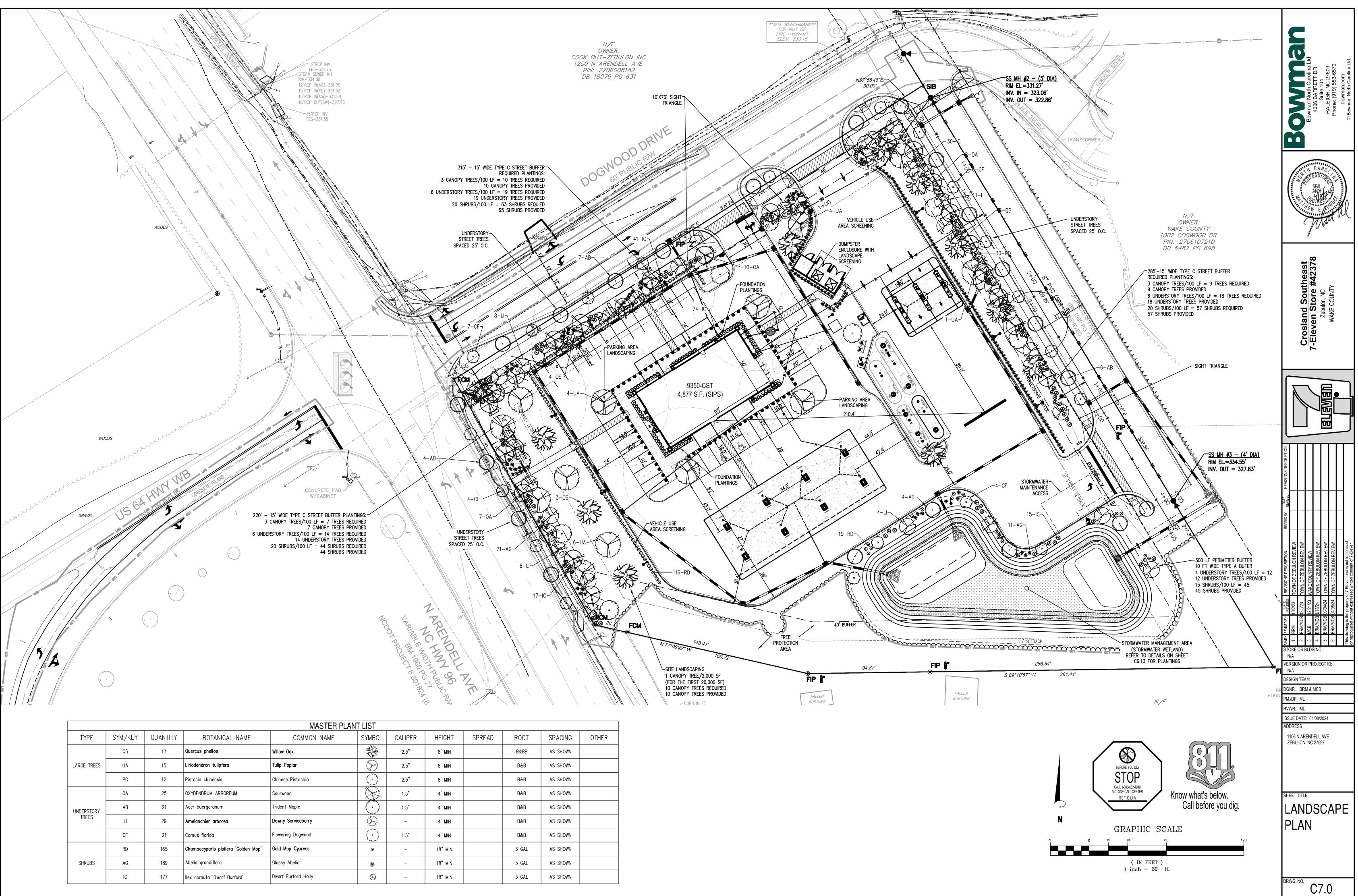






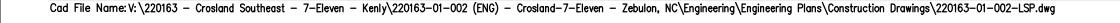
Cad File Name: V: \220163 - Crosland Southeast - 7-Eleven - Kenly\220163-01-002 (ENG) - Crosland-7-Eleven - Zebulon, NC\Engineering\Engineering Plans\Construction Drawings\220163-01-002-SWD.dwg

	Bowman North Carolina Ltd. Suite 104 Bowman North Carolina Ltd. 4006 BARRETT DR Suite 104 Bowman Carolina Ltd. 553-6570 bowman Carolina Ltd.
	SEAL 24434 24434 SEAL 24434 CMC/NECKOS
	Crosland Southeast Zebulon, NC Zebulon, NC WAKE COUNTY
	ESCRIPTION
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4+00	SHEET TITLE STORMWATER WETLAND PROFILE
	DRWG. NO. C6.14



MASTER	PLAN	T LIST

TYPE	SYM/KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SYMBOL	CALIPER	HEIGHT	SPREAD	ROOT	SPACING	OTHEF
	QS	13	Quercus phellos	Willow Oak		2.5"	8' MIN		B&BB	AS SHOWN	
	15	Liriodendron tulipfera	Tulip Poplar	\bigotimes	2.5"	8' MIN		B&B	AS SHOWN		
	12	Pistacia chinensis	Chinese Pistachio	$\mathbf{\hat{\cdot}}$	2.5"	8' MIN		B&B	AS SHOWN		
	OA	25	OXYDENDRUM ARBOREUM	Sourwood		1.5"	4' MIN		B&B	AS SHOWN	
UNDERSTORY	AB	21	Acer buergeranum	Trident Maple	\odot	1.5"	4' MIN		B&B	AS SHOWN	
TREES	LI	29	Amelanchier arborea	Downy Serviceberry	\bigotimes	_	4' MIN		B&B	AS SHOWN	
CF	21	Camus florida	Flowering Dogwood	\bigcirc	1.5"	4' MIN		B&B	AS SHOWN		
	RD	165	Chamaecyparis pisifera 'Golden Mop'	Gold Mop Cypress	۲	_	18" MIN		3 GAL	AS SHOWN	
SHRUBS	AG	189	Abelia grandiflora	Glossy Abelia	*	_	18" MIN		3 GAL	AS SHOWN	
	IC	177	llex cornuta 'Dwarf Burford'	Dwarf Burford Holly	S	-	18" MIN		3 GAL	AS SHOWN	



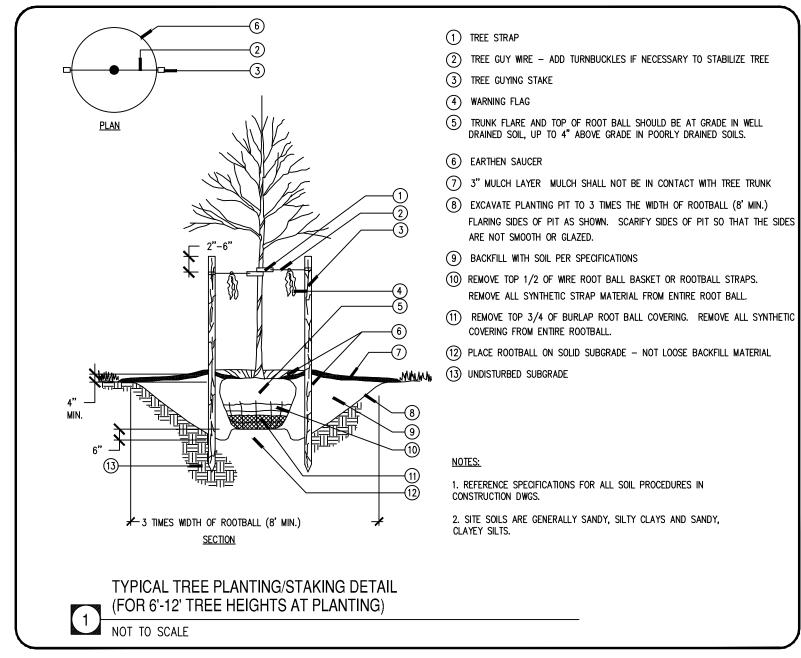
LANDSCAPE NOTES:

SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM. THE LANDSCAPE CONTRACTOR SHAL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL STAND OF GRASS AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION.

SURVEY NOTE OF NC

STREAM/WETLAND NOTE: FLOOD ZONE NOTE



HYDROMULCH ALL DISTURBED AREAS OUTSIDE OF PROPERTY LIMITS (UNLESS SHOWN AS SOD).

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.

EROSION CONTROL NOTES: AN EROSION AND SEDIMENTATION CONTROL PERMIT SHALL BE REQUIRED BY WAKE COUNTY PRIOR TO START OF

ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY: KCI ASSOCIATES

THERE ARE NO EXISTING STREAM/AND OR WETLAND FEATURES ON THE PROPOSED PARCEL. THERE ARE NO PROPOSED IMPACTS TO AN EXISTING STREAM AND/OR WETLAND FEATURES

THE PROPERTY IS LOCATED IN FLOOD ZONE X AS SHOWN ON FEMA FLOOD PANED 3720270600K & 3720270500K, BOTH DATED JULY 19, 2022. MAPS SUBJECT TO CHANGE BY FEMA

(2) TREE GUY WIRE - ADD TURNBUCKLES IF NECESSARY TO STABILIZE TREE

(5) TRUNK FLARE AND TOP OF ROOT BALL SHOULD BE AT GRADE IN WELL DRAINED SOIL, UP TO 4" ABOVE GRADE IN POORLY DRAINED SOILS.

(7) 3" MULCH LAYER MULCH SHALL NOT BE IN CONTACT WITH TREE TRUNK (8) EXCAVATE PLANTING PIT TO 3 TIMES THE WIDTH OF ROOTBALL (8' MIN.) FLARING SIDES OF PIT AS SHOWN. SCARIFY SIDES OF PIT SO THAT THE SIDES

- REMOVE ALL SYNTHETIC STRAP MATERIAL FROM ENTIRE ROOT BALL.

VICINITY MAP **

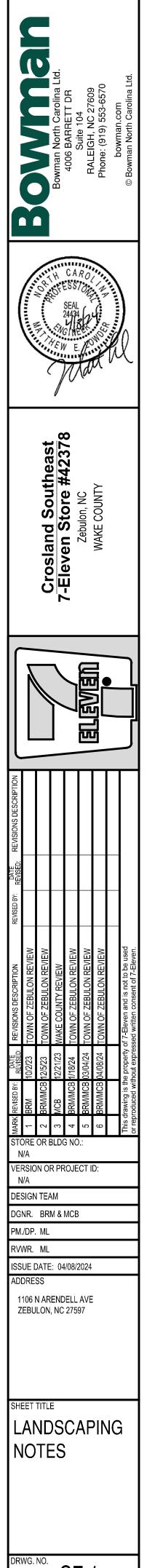
IRRIGATION NOTE:

IRRIGATION SYSTEM TO BE A DESIGN-BUILD SYSTEM PROVIDED BY THE CONTRACTOR. IRRIGATION HEADS TO BE A MINIMUM OF 3' FROM EDGE OF CURB LINE. ALL LANDSCAPE BEDS TO HAVE CUT EDGE OR COMMERCIAL EDGING MATERIAL INSTALLED FULLY SEPARATING THE MULCH BED FROM ADJACENT LAWN AREA. ANY TREES OVER 2" CALIPER MUST BE STAKED AND TIED.

LANDSCAPING NOTES:

GROWTH.

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ALL REQUIRED LANDSCAPING FOR THE ENTIRE SITE, TO INCLUDE BUT NOT LIMITED TO: SODDED/SEEDED AREAS, SHRUB BEDS, PARKING LOT ISLANDS, ROADSIDE SIGN BASE(S) AND MONUMENT PLANTERS.
- 2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES REGARDING LANDSCAPING. 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A HEALTHY STAND OF GRASS
- ON ALL SEEDED AREAS. 4. IN THE EVENT THAT PLANTING BEDS AND MULCH ARE REQUIRED, THE CONTRACTOR SHALL INSTALL BLACK FABRIC WEED BLOCK LANDSCAPE MESH UNDER THE MULCH TO PREVENT WEED
- 5. CONTRACTOR SHALL PROVIDE NATURAL TOPSOIL THAT IS FERTILE, FRIABLE, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND OBTAINED FROM A WELL DRAINED, AVAILABLE SITE. IT SHALL NOT CONTAIN SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE SCREENED AND FREE FROM CLAY, LUMPS, STONES, ROOTS, PLANTS, OR SIMILAR SUBSTANCES 1" OR MORE IN DIAMETER, DEBRIS, OR OTHER OBJECTS WHICH MIGHT BE A HINDERANCE TO PLANTING OPERATIONS. TOPSOIL SHALL CONTAIN AT LEAST 4-6% ORGANIC MATTER BY WEIGHT AND HAVE A PH RANGE OF 5.5 TO 7.0.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE WATERING AND THE MAINTENANCE OF ALL LANDSCAPED AREAS UNTIL THE LATER OF; (a) THIRTY (30) DAYS FOLLOWING THE PLANTING OF THE GRASS AND SHRUBS, OR (b) THE DATE THAT BUILDINGS OPEN FOR BUSINESS TO THE PUBLIC.
- 7. GENERAL CONTRACTOR IS TO CLEAN ENTIRE SITE OF ALL CONSTRUCTION DEBRIS AND RAKE ALL GRASS AREAS.
- 8. PROVIDE LANDSCAPE PLANS TO OWNER AND AS REQUIRED BY LOCAL JURISDICTION TO THE BLDG. DEPT. FOR REVIEW AND APPROVAL PRIOR TO START OF WORK.
- 9. ALL LANDSCAPING, TRESS, SHRUBS, ETC. SHALL NOT INTERFERE WITH THE VISIBILITY OF PROJECT SIGNAGE
- 10. CONTRACTOR TO VERIFY QUANTITIES PRIOR TO COMMENCING WORK.
- 11. OPEN AREAS WITHIN PLANTING BEDS SHALL BE MULCHED.
- GENERAL LANDSCAPE NOTES: 1. ANY DISTURBED AREAS NOT SCHEDULED FOR HARDSCAPE, PLANTINGS, OR MULCH SHALL BE SEEDED LAWN.
- 2. NO PLANT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE.
- 3. ALL PLANT AND BED LINE LOCATIONS SHALL BE STAKED IN THE FIELD AND APPROVED BY THE THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- 4. ALL PLANTINGS SHALL BE INSTALLED WITH THE SPECIFIED LAYER OF MULCH. REFERENCE DETAILS AND SPECIFICATIONS FOR DEPTH AND TYPE OF MULCH. ALL TREES AND SHRUBS SHALL BE PLANTED IN MULCH BEDS AND SHALL BE SEPARATED FROM TURF GRASS AREAS.
- 5. GRASS COVERAGE TO EXTEND FROM PROPERTY LINES TO BACK OF CITY SIDEWALKS AND/OR CURBS.
- MINIMUM TREE SIZE AT PLANTING IS 2" CALIPER (FOR SINGLE STEM TREES). ALL MULTI-STEM 6. PLANTS MUST BE TREE FORM, MAXIMUM 3 TO 5 TRUNKS, AND MINIMUM 8 FEET TALL.
- 7. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM ROOT BALL.
- 8. FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS; REMOVE COMPACTED SOIL AND ADD 18" NEW TOPSOIL, OR TILL AND AMEND THE TOP 18" OF EXISTING SOIL TO MEET TOPSOIL/PLANTING MIX STANDARDS FOR TREES.
- 9. LARGE MATURING TREES MAY NOT BE PLANTED WHERE THERE ARE OVERHEAD DISTRIBUTION OR TRANSMISSION LINES. IF TREES CONFLICT WITH POWER LINES OR SIGNS, CALL URBAN FORESTER TO RESOLVE BEFORE PLANTING.
- 10. ADJUST TREE PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES. PLANT 15' FROM ALL UNDERGROUND UTILITIES (SEWER AND STORM DRAINAGE, GAS, WATER, PHONE, AND ELECTRICAL LINES.)
- 11. ATTENTION LANDSCAPER: NOTIFY OWNER OF ANY SIGN, POWER LINE, OR OTHER CONFLICTS BEFORE PLANTING NEW TREES.



nbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
Ð	36	CPY-FLAT-B	SINGLE	CPY250-B-DM-F-B-UL-WH-57K-HZ	1.000	13043	96	3456
•	17	CPY-FLAT-C	SINGLE	CPY250-C-4L-57K7-F-UL-DM-BK-HZ	1.000	4590	29	493
	4	XSPW	SINGLE	XSPW-B-WM-3ME-4L-57K-UL-BK	1.000	4270	31	124
Ð	9	XSPLG-4ME-1	SINGLE	XSPLG-D-HT-4ME-24L-57K7-UL-BK-N w/ XA-SP2BLS	1.000	17400	184	1656
\$	1	XSPLG4ME-2-BLS	2 @ 90 DEGREES	XSPLG-D-HT-4ME-24L-57K7-UL-BK-N w/ XA-SP2BLS	1.000	17400	184	368
Ð	3	XSPLG-3ME	SINGLE	XSPLG-D-HT-3ME-24L-57K7-UL-BK-N w/ XA-SP2BLS	1.000	16900	184	552
⊣₽	1	XSPLG-4ME-2	Back-Back	XSPLG-D-HT-4ME-24L-57K7-UL-BK-N	1.000	23800	184	368

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE_Top	Illuminance	Fc	5.1	66.8	0.0	N.A.	N.A.
DIESEL CANOPY	Illuminance	Fc	47.2	66.8	24.5	1.9	2.7
DUMPSTER	Illuminance	Fc	5.4	7.4	3.8	1.4	2.0
ENTRY 1	Illuminance	Fc	5.7	9.7	2.2	2.6	4.4
ENTRY 2	Illuminance	Fc	2.4	3.8	1.4	1.7	2.7
ENTRY 3	Illuminance	Fc	2.0	3.0	0.8	2.5	3.8
GAS CANOPY	Illuminance	Fc	35.6	47.5	20.4	1.8	2.3
PATH BLDG TO GAS	Illuminance	Fc	9.6	29.1	1.7	5.7	17.1
PATH DEISEL TO BLDG	Illuminance	Fc	8.7	26.1	4.1	2.1	6.4
REAR PARKING	Illuminance	Fc	5.8	8.8	2.6	2.2	3.4
STORE EAST PARKING	Illuminance	Fc	3.9	5.8	2.0	2.0	2.9
STORE FRONT PARKING	Illuminance	FC	2.3	5.6	1.5	1.5	3.7
STORE WEST PARKING	Illuminance	Fc	3.0	5.0	2.0	1.5	2.5
TANK PAD	Illuminance	FC	2.0	7.0	1.0	2.0	7.0

DROP GRATE-335.63 15"RCP OUT(SW)-332,71

24" 0

NCDOT PI

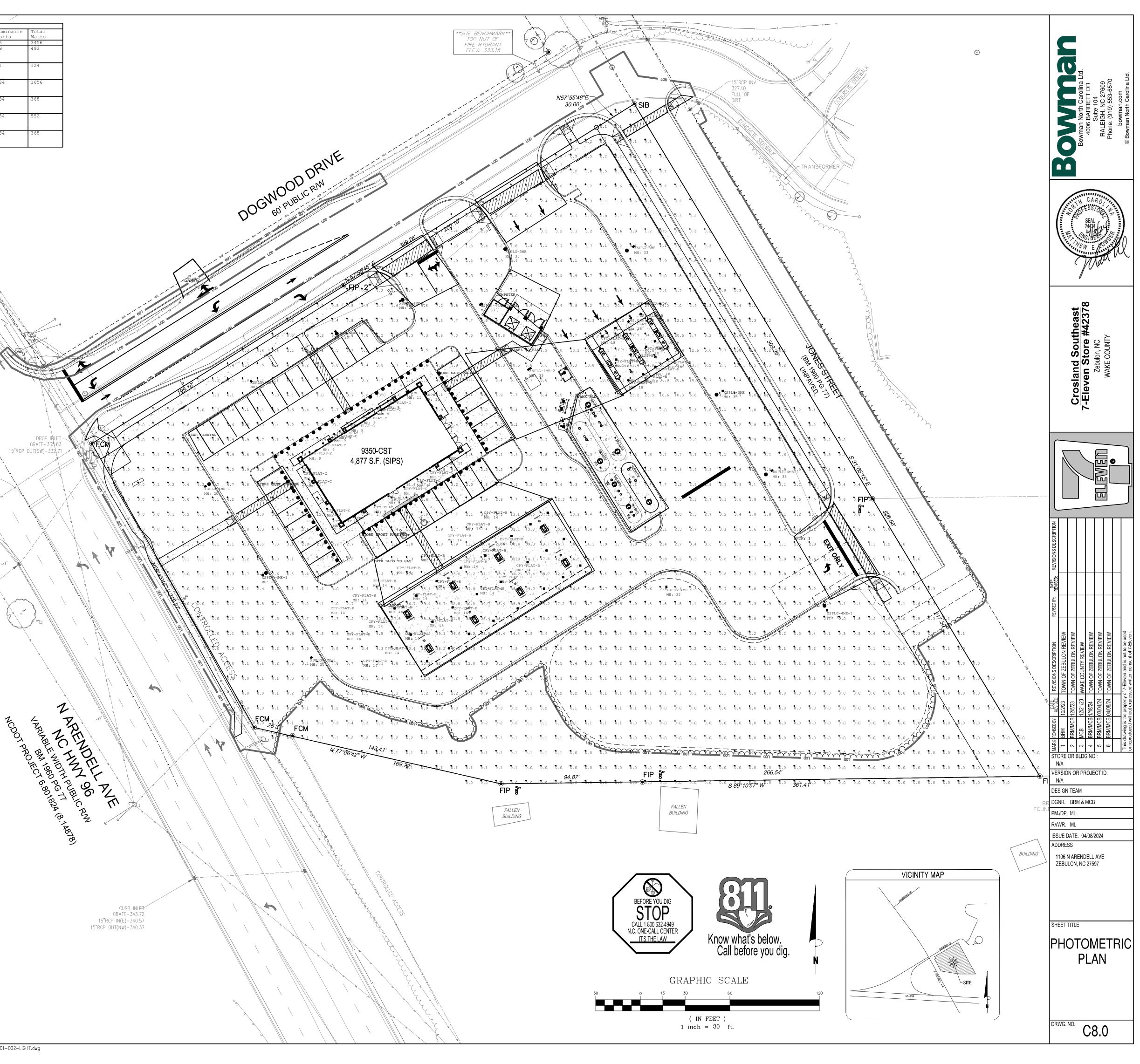
CONCRETE PAD -

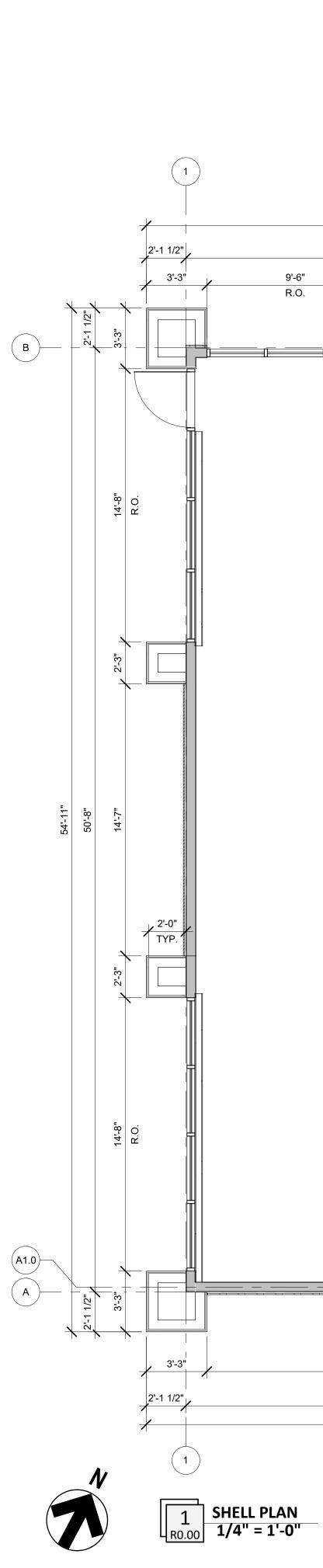
CURB INLET GRATE-335.84

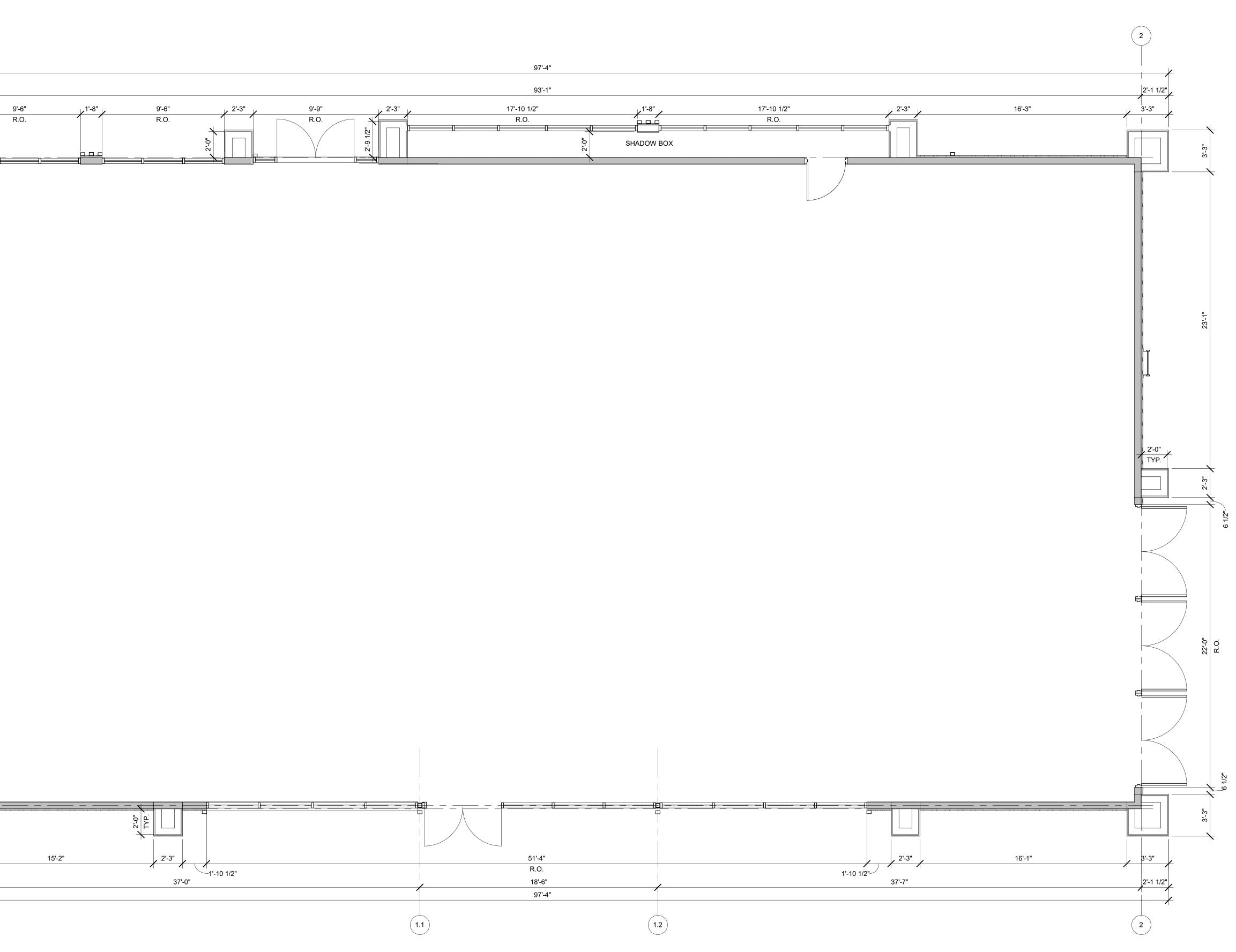
15"RCP IN(SE)-331.59 15"RCP IN(NE)-331.38

15"RCP OUT(NW)-331.24

W/CABINET







9'-6"	↓ ^{1'-8"} ↓	9'-6"	2'-3"	9'-9"	2'-3"	17'-10 1/2"	
R.O.		R.O.	5-0"	R.O.	5'-9 1/2"	R.O.	
				=			N

b·u·f studio 702 SE 5TH ST. SUITE 30 BENTONVILLE, AR 72712 TEL: 479.579.9959 Drawings & Specifications as instruments of service are & shall remain the property of the Architect. They are not to be used on other projects or extensions to this project except by agreement in writing & with appropriate compensation to the Architect. Contractor is responsible for confirming and correlating dimensions at job site; the Architect will not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the project. ©Copyright 2023 <u>CLIENT NAME</u> CROSLAND SOUTHEAST 121 W TRADE ST, CHARLOTTE, NC, 28202 <u>TENANT</u> PROTO:9350-CST-2022-01 AVENUE 597 \sim \sim ARENDELL NC ON, ZEBUL 1106 N. NOTEUCTION 04/28/2023 <u>Architect Name</u> - RYAN M. FAUST Architect Number - 14521 THE SEAL & SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED & WE EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT. REVISIONS NO. DATE DESCRIPTION
 Drawing Size:
 Project #:

 30 x 42
 22121
 Drawn By: JMA Checked By: ADF Title: SHELL PLAN Sheet Number: R0.00 Date: 04/28/2023 Store #: 1055397

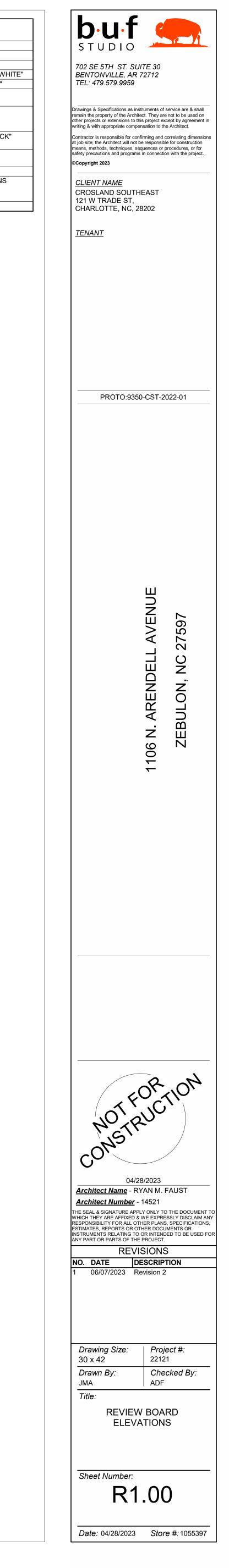


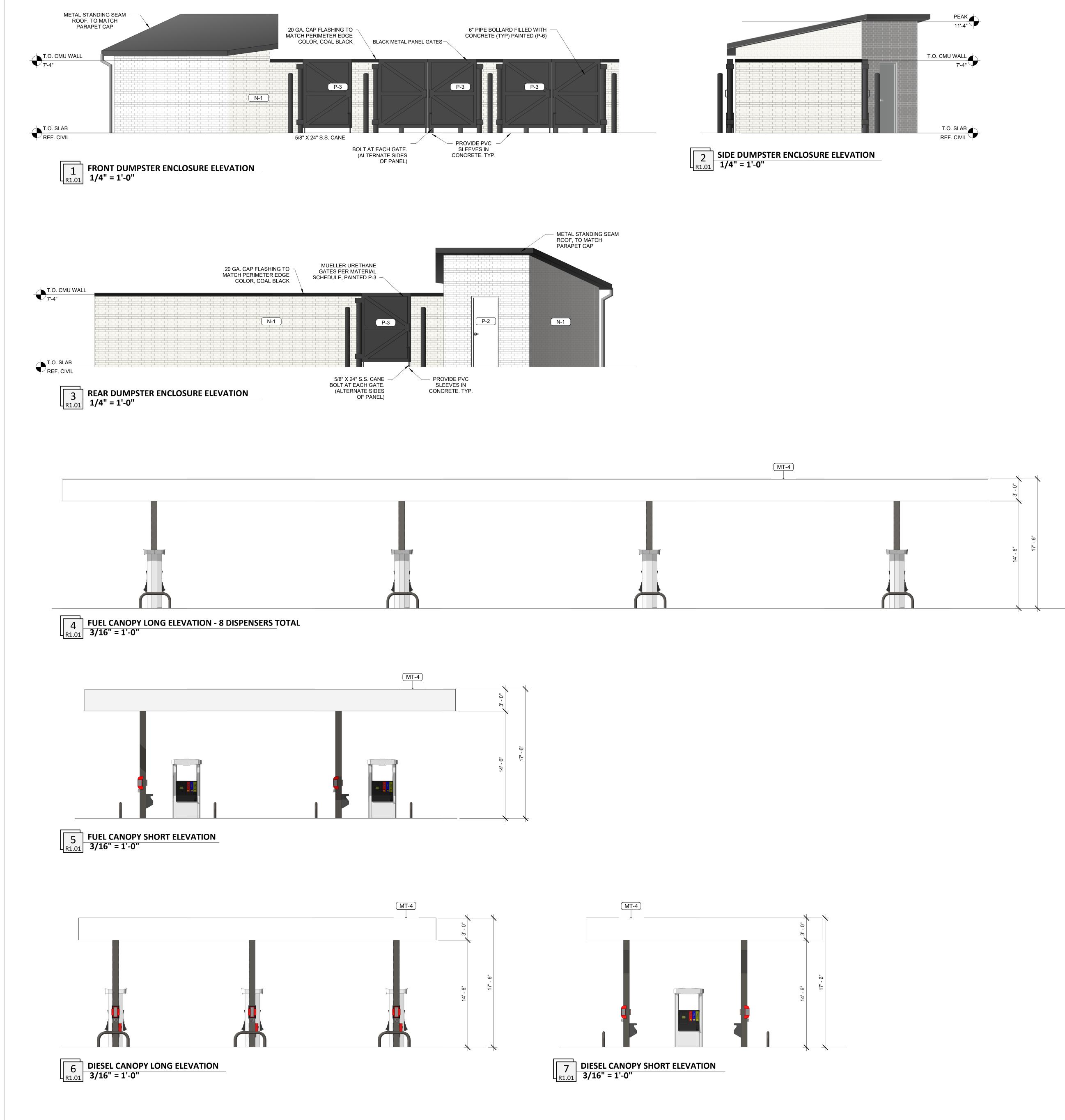
			EXTERIOR MA	TERIALS SCHEDULE			
	(NOT ALL MATERIALS IN SCHEDULE ARE USED)						
	NO.	MATERIAL	MANUFACTURER	COLOR			
	MR-1	MEMBRANE ROOFING	DUROLAST	WHITE			
	N-1	FIBER CEMENT PANEL	NICHIHA	VINTAGE BRICK, PAINTED SHERWIN WILLIAMS SW7005 "PURE WH			
	N-2	FIBER CEMENT PANEL	NICHIHA	RIBBED, COLOR TO MATCH SHERWIN WILLIAMS SW7659 "GRIS"			
	CP-1	EDGE METAL PARAPET CAP	DUROLAST - ALL TERM EDGE	COAL BLACK			
	P-2	EXTERIOR HM DOORS, FRAMES, TRASH ENCLOSURE GATE, GRAVEL GUARDS, AND LIGHT POLES	SHERWIN WILLIAMS	SHERWIN WILLIAMS SW6232 "MISTY"			
	MT-2	PREFINISHED METAL PARAPET DETAIL		COLOR TO MATCH SHERWIN WILLIAMS SW6258 "TRICORN BLACK"			
	P-6	EXTERIOR BOLLARDS	SHERWIN WILLIAMS	SHERWIN WILLIAMS SW6258 "TRICORN BLACK"			
	S-1	ALUMINUM STOREFRONT GLAZING	KAWNEER	451T VG - #29 BLACK FINISH			
	C-1	PREFINISHED ALUMINUM CANOPY	MAPES LUMISHADE CANOPY	MATTE BLACK BAKED ENAMEL W/ REAR GUTTER CONNECTIONS			
5.3.1.F.7: COMMERCIAL BUILDING FENESTRATION	WDS-1	WOOD LOOK SIDING	NICHIHA	VINTAGE WOOD - CEDAR - VERTICAL			
NRY BUILDING WALL IEA = (15'-1" X 97'-4") = 1,492 SQFT RENCY SQFT = (1,492SQFT X 30%) = 448SQFT S")+(6'-4"x16'-5") = 427SQFT							

KAWNEER #29

BLACK

(S-1)





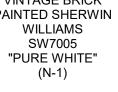


NO.			ALS IN SCHEDULE ARE USED) R COLOR								
MR-1	MEMBRANE ROOFING	DUROLAST	WHITE								
N-1	FIBER CEMENT PANEL	NICHIHA	VINTAGE BRICK, PAINTED SHERWIN WILLIAMS SW7005 "PURE \								
N-2	FIBER CEMENT PANEL	NICHIHA	RIBBED, COLOR TO MATCH SHERWIN WILLIAMS SW7659 "GRIS								
CP-1	EDGE METAL PARAPET CAP	DUROLAST - ALL TERM EDGE	COAL BLACK								
P-2	EXTERIOR HM DOORS, FRAMES, TRASH ENCLOSURE GATE, GRAVEL GUARDS, AND LIGHT POLES	SHERWIN WILLIAMS	SHERWIN WILLIAMS SW6232 "MISTY"								
MT-2	PREFINISHED METAL PARAPET DETAIL		COLOR TO MATCH SHERWIN WILLIAMS SW6258 "TRICORN BLA								
P-6	EXTERIOR BOLLARDS	SHERWIN WILLIAMS	SHERWIN WILLIAMS SW6258 "TRICORN BLACK"								
S-1	ALUMINUM STOREFRONT GLAZING	KAWNEER	451T VG - #29 BLACK FINISH								
C-1	PREFINISHED ALUMINUM CANOPY	MAPES LUMISHADE CANOPY	MATTE BLACK BAKED ENAMEL W/ REAR GUTTER CONNECTION								
WDS-1	WOOD LOOK SIDING	NICHIHA	VINTAGE WOOD - CEDAR - VERTICAL								
MT-4	FUEL CANOPY FASCIA	REYNOBOND	EASTMAN WHITE - PY-25								



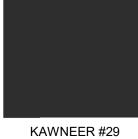
VINTAGE WOOD CEDAR (WDS-1)







NICHIHA RIBBED COLOR MATCH SHERWIN WILLIAMS SW7659 "GRIS" (N-2)



BLACK (S-1)

