

DOLLAR GENERAL®

Proposed
Dollar General Store
NC Highway 55
Town of Erwin
Harnett County, NC

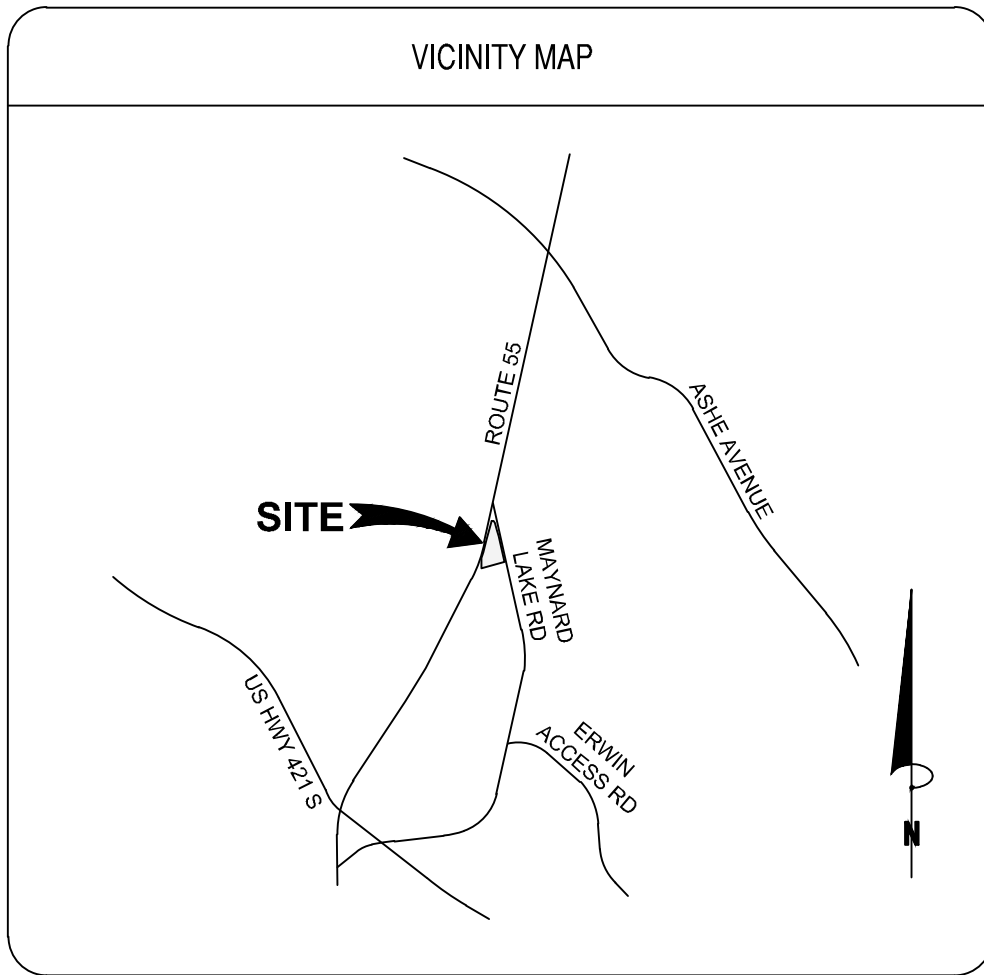
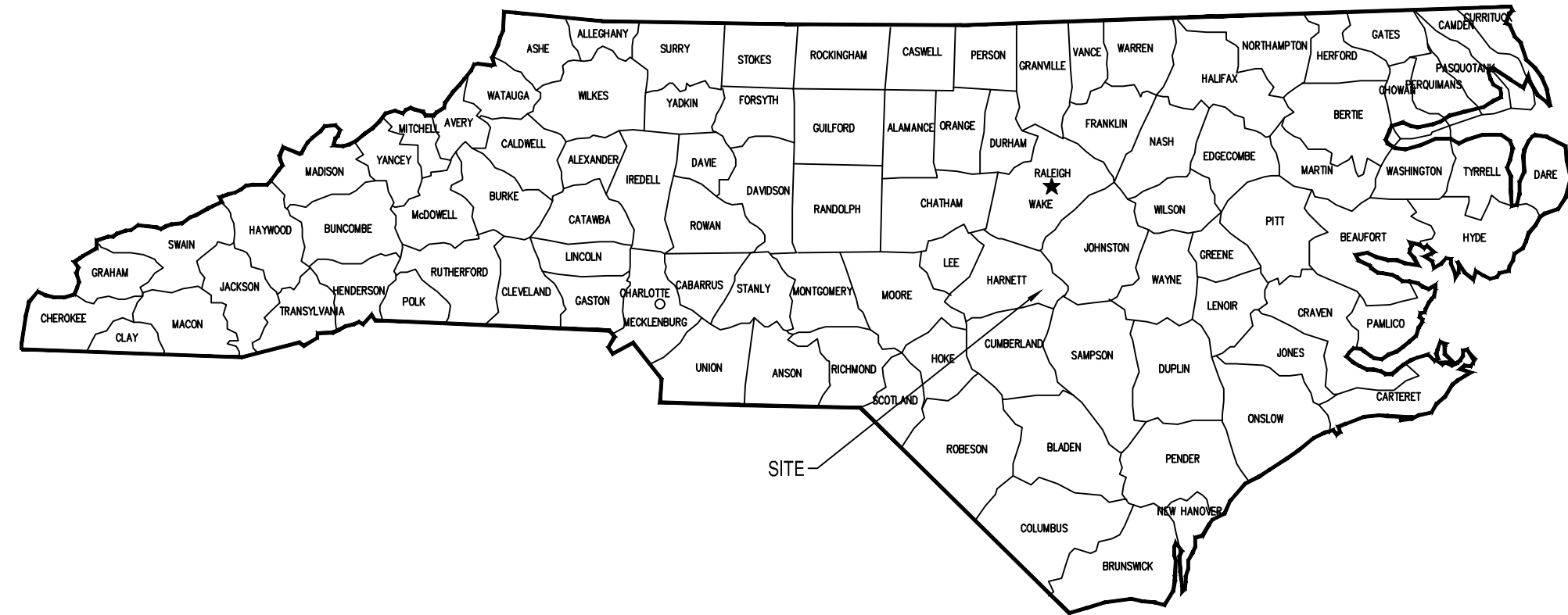
TENANT & DEVELOPER
Dollar General Corporation

Rhetson Companies, Inc.
Attn. Greg Stewart
2075 Juniper Lake Road
West End, NC 27376
(910) 944-0881
permits@rhetson.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
Dayna Bayless & Steve Wilford Murphy
175 Drum Inlet
Morehead City, NC 28557



DEVELOPMENT DATA	
DEVELOPMENT NAME:	DOLLAR GENERAL
STREET ADDRESS:	NC HIGHWAY 55
	TOWN OF ERWIN
	HARNETT COUNTY
PROPERTY IDENTIFICATION # (PIN):	0598-92-2261
PARCEL ID NUMBER (PID):	070598 0150
DEED BOOK/PAGE:	2405/628
PLAT BOOK/PAGE:	
EXISTING ZONING:	B2 HIGHWAY BUSINESS
	(ZONING CASE ZT-2024-007)
WATERSHED DISTRICT:	NONE
OVERLAY DISTRICT:	PHASE II STORMWATER
TOTAL SITE ACRES:	107,507 SF (2.47 AC)
	PROPOSED DOLLAR GENERAL PARCEL
INSIDE TOWN LIMITS:	NO
EXISTING USE:	VACANT
PROPOSED BUILDING USE:	RETAIL SALES
PROPOSED TOTAL BUILDING AREA:	10,640 SF
MAX BUILDING HEIGHT:	35 FT
MIN LOT AREA:	20,000 SF
MIN LOT WIDTH:	100 FT
FRONT SETBACK:	30 FT
SIDE SETBACK (RESIDENTIAL):	20 FT
REAR SETBACK:	20 FT
LANDSCAPE REQUIREMENTS:	
PERIMETER BUFFER:	20 FT ADJACENT TO RURAL DISTRICT
STREET FRONTAGE:	5 FT
PARKING REQUIREMENTS:	
TOTAL REQUIRED:	
TOTAL PROVIDED:	42
ACCESSIBLE SPACES PROVIDED:	2
PARKING SPACE DIMENSIONS:	8'x20' MIN
LOADING AREA:	1 PROVIDED
	12'x55' MIN

IMPERVIOUS SUMMARY TABLE			
DOLLAR GENERAL SITE AREA = 107,507 SF (2.47 AC)			
BUILDINGS	10,640 SF	0.24 ACRES	9.90 % OF AREA
PAVEMENT	21,745 SF	0.50 ACRES	20.23 % OF AREA
SIDEWALK	2,080 SF	0.05 ACRES	1.93 % OF AREA
TOTAL IMPERVIOUS AREA	34,465 SF	0.79 ACRES	32.06 % OF AREA
GREEN/OPEN SPACE	73,042 SF	1.68 ACRES	67.94 % OF AREA
EXISTING IMPERVIOUS AREA	5,175 SF	0.12 ACRES	
INCREASE IN IMPERVIOUS AREA	29,290 SF	0.67 ACRES	

HARNETT REGIONAL WATER NOTES:

- APPROVAL OF THIS PLAT/PLAN DOES NOT GUARANTEE WATER CAPACITY OR WASTEWATER CAPACITY. CURRENT/FUTURE CAPACITY MAY NOT BE AVAILABLE. THIS DEVELOPMENT MAY REQUIRE ADDITIONAL IMPROVEMENTS TO THE EXISTING WATER AND WASTEWATER SYSTEM TO MEET FUTURE WATER AND WASTEWATER DEMANDS PRIOR TO A PRELIMINARY PLAT, CONSTRUCTION PLAN AND/OR FINAL PLAT APPROVAL.
- WATER AND SEWER CONSTRUCTION & TIE-IN WILL NEED TO BE COORDINATED AND INSPECTED BY HARNETT REGIONAL WATER CONSTRUCTION INSPECTOR CHAD EVERETT.

Index of Drawings	
SHEET NUMBER	SHEET TITLE
C1.0	COVER SHEET
C1.1	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
C2.0	DEMOLITION PLAN
C2.1	EROSION CONTROL PLAN - INITIAL
C2.2	EROSION CONTROL PLAN - FINAL
C2.3	EROSION CONTROL NOTES
C2.4	NORTH CAROLINA GENERAL PERMIT (NCG01)
C2.5	NCG01 SELF-INSPECTION FORM
C3.0	SITE PLAN
C3.1	VEHICLE EXHIBIT PLAN
C4.0	GRADING PLAN
C5.0	UTILITY PLAN
C5.1	UTILITY DETAIL
C6.0	EROSION CONTROL DETAILS
C6.1	EROSION CONTROL DETAILS
C6.2	CONSTRUCTION DETAILS
C6.3	CONSTRUCTION DETAILS
C6.4	STORMWATER MANGEMENT DETAILS (1 OF 3)
C6.5	STORMWATER MANGEMENT DETAILS (2 OF 3)
C6.6	STORMWATER MANGEMENT DETAILS (3 OF 3)
C7.0	LANDSCAPING PLAN
DDX	PRE-DEVELOPMENT DRAINAGE AREA
DDP	POST-DEVELOPMENT DRAINAGE AREA
DDP-BYPASS	POST-DEVELOPMENT BYPASS DRAINAGE AREA
DDP-INLETS	POST-DEVELOPMENT DRAINAGE AREA TO INLETS
PAGE 1 OF 1	LIGHTING PLAN

EROSION CONTROL NOTES:
AN EROSION AND SEDIMENTATION CONTROL PERMIT SHALL BE REQUIRED BY NCEDEQ PRIOR TO START OF CONSTRUCTION.

SURVEY NOTE:
ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY:
BOWMAN NORTH CAROLINA LTD.

STREAM/WETLAND NOTE:
THERE ARE NO EXISTING STREAM/AND OR WETLAND FEATURES ON THE PROPOSED PARCEL.

FLOOD ZONE NOTE:
THE PROPERTY IS LOCATED IN FLOOD ZONE X AS SHOWN ON FEMA FLOOD PANEL 3720059800J, DATED OCTOBER 3, 2006. MAPS SUBJECT TO CHANGE BY FEMA.

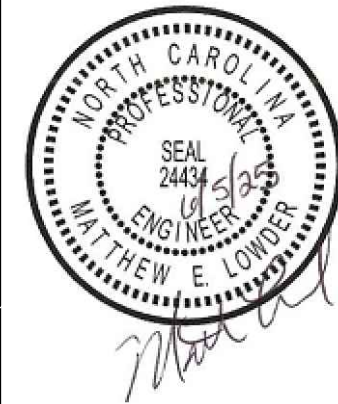


Know what's below.
Call before you dig.

COVER SHEET

DOLLAR GENERAL®

NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA



ISSUED FOR
CONSTRUCTION

PLAN STATUS		
2/10/2025	1ST SUBMITTAL	
3/18/2025	REVISIONS PER NOCED COMMENTS	
4/4/2025	2ND SUBMITTAL	
6/3/2025	REVISIONS PER NOCED COMMENTS	
6/5/2025	REVISIONS PER NOCED COMMENTS	
DATE	DESCRIPTION	
ML	KXO	ML
DESIGN	DRAWN	CHKD
SCALE	H:	
	V:	
JOB No.	220154-01-001	
DATE	FEBRUARY 10, 2025	
FILE No.		
SHEET	C1.0	

EXISTING	DESCRIPTION	PROPOSED
	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	
	HANDICAP PARKING	
	SIGHT TRIANGLE	
	SIGN(S)	
	PARKING COUNT INDICATOR	
	VEHICLES PER DAY INDICATOR	
	TEST PIT	
	MONITORING WELL	
	MAJOR CONTOUR	
	MINOR CONTOUR	
	GRADE BREAK	
	RIDGELINE	
	SPOT ELEVATION	
	RIP RAP	
	WATER LINE	
	WATER METER	
	WATER VALVE	
	WATER REDUCER	
	WATER FITTINGS	
	FIRE HYDRANT	
	SANITARY LINE	
	SANITARY MANHOLE	
	SANITARY CLEANOUT	
	STORM SEWER PIPE	
	STORM SEWER MANHOLE	
	STORM SEWER INLET	
	STORM SEWER FLARED END SECTION	
	STORM SEWER HEADWALL	
	OVERHEAD UTILITY	
	UNDERGROUND ELECTRIC	
	OVERHEAD ELECTRIC	
	UTILITY POLE	
	STREET LIGHT	
	CABLE TV SERVICE	
	TELECOM SERVICE	
	FIBER OPTIC SERVICE	
	NATURAL GAS SERVICE	

	TREE	
	TREE LINE	
	WETLANDS	

LEGEND NOTES

- THIS IS A STANDARD SHEET, THEREFORE SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE USED ON THE PROJECT.
- 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.

ABBREVIATIONS

A	AREA OF ARC	K	SIGHT DISTANCE COEFFICIENT OR RATE OF VERTICAL CURVATURE
AASHTO	AMERICAN ASSOCIATION OF STATE HWY & TRANSPORTATION OFFICIALS	Ke	CULVERT ENTRANCE LOSS COEFFICIENT
AB	AS-BUILT	L	LENGTH
AC	ACRE	LAT	LATERAL
AD	ALGEBRAIC DIFFERENCE IN GRADE	LCG	LIMITS OF CLEARING & GRADING
AE	ACCESS EASEMENT	LF	LINEAR FEET
ADJ	ADJACENT	LP	LOW POINT
AGGR	AGGREGATE	LL	LOWER LEVEL
AND	AND	LOS	LINE OF SIGHT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LP	LOW POINT
APT	ANGLE POINT	LS	LOADING SPACE
APPROX	APPROXIMATE	LT	LEFT
ARCH	ARCHITECTURAL	M	MONUMENT FOUND
ASPH	ASPHALT	MAX	MAXIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ME	MATCH EXISTING
AWWA	AMERICAN WATER WORKS ASSOCIATION	MECH	MECHANICAL
B	BREADTH	MH	MANHOLE
BOC	BACK OF CURB	MI	MILE
BF	BASMENT FLOOR	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BM	BENCHMARK	MPH	MILES PER HOUR
BMP	BEST MANAGEMENT PRACTICES (WATER QUALITY)	MS	MEAN SEA LEVEL
BOV	BLOW OFF VALVE	N	NORTHING/NORTH
BRG	BEARING	N/A	NOT APPLICABLE
BRL	BUILDING RESTRICTION LINE	NCDOT	NORTH CAROLINA DEPT. OF TRANSPORTATION
BVCE	BEGINNING VERTICAL CURVE ELEVATION	NBL	NORTH BOUND LANE
BVCS	BEGINNING VERTICAL CURVE STATION	N/F	NOW OR FORMERLY
BW	BOTTOM OF WALL	NFA	NET FLOOR AREA
c/c	CENTER CORRECTION ON VERTICAL CURVE	N#	NUMBER
CATV	CABLE TELEVISION	NTS	NOT TO SCALE
C&G	CURB AND GUTTER	OC	ON CENTER
C&G	CATCH BASIN	ODJ	OUTSIDE DIAMETER
CBR	"CALIFORNIA BEARING RATIO"	OH	OVERHANG
CC	CENTER TO CENTER	O/H	OVERHEAD
CF	CUBIC FEET	OH	OVERHEAD CABLE
CF	CUBIC FEET PER SECOND	OH	OVERHEAD ELECTRIC
CG(R)	CURB AND GUTTER (REVERSE SLOPE)	OHT	OVERHEAD TELEPHONE
CH	CHORD	P	PERMETER
CHRRG	CHORD BEARING	P	PROPERTY LINE
CI	CAST IRON PIPE	P&P	PLAN AND PROFILE
CL	CENTERLINE	PC	POINT OF CURVATURE
CLR	CLEAR	PCC	POINT OF COMPOUND CURVATURE
CM	CUBIC METERS	PCR	POINT OF CURB RETURN
OMP	CORRUGATED METAL PIPE	PCEP	POINT OF CURVE EDGE OF PAVEMENT
OMS	CUBIC METERS PER SECOND	PTC	POINT OF CURVATURE TOP OF CURB
ON	RUNOFF CURVE NUMBER	PI	POINT OF INTERSECTION
CONT	CONTINUOUS	PAGE	PAGE
CO	CLEAN OUT	PG	POINT OF GRADE LINE
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CS	CURB STOP	PRELIM	PRELIMINARY
CT	COURT	PROSP	PROPOSED
CTR	CENTER	PT	POINT OF TANGENCY
CTL	CONTROL LINE	PUE	PUBLIC UTILITY EASEMENT
CY	CUBIC YARD	PVC	POLYVINYL CHLORIDE PIPE OR POINT OF VERTICAL CURVATURE
D	DEPTH	PVI	POINT OF VERTICAL INTERSECTION
DA	DRAINAGE AREA	PVT	POINT OF VERTICAL TANGENCY
DB	DEED BOOK	PWM	PAVEMENT
DD	DIVERSION DIKE	PVC	POINT OF VERTICAL REVERSE CURVE
DET	DETAIL	Q (cfs)	AMOUNT OF RUNOFF (FLOW RATE)
DIA	DIAMETER	R	RADIUS
DIP	DUCTILE IRON PIPE	RC	REINFORCED CONCRETE PIPE
DI	DROP INLET	RD	REDUCER
DIST	DISTANCE	RD	ROAD OR ROOF DRAIN
DL	DOMESTIC LINE	REIN	REINFORCED
DM	DROP MANHOLE	RET	RETAINING
DOM	DOMESTIC	REV	REVISION
DR	DRIVE DRAIN	RG	ROUGH GRADING PLAN
DRN	DRAINAGE	RMA	RESOURCE MANAGEMENT AREA
DRNG	DRAINAGE AREA	ROM	REMOTE OUTSIDE MONITOR
DS	DOWN SPOUT	RPA	RESOURCE PROTECTION AREA
DU	DWELLING UNITS	RR	RAILROAD
DWG	DRAWING	RT	ROUTE
D/W	DRIVEWAY	RTE	ROUTE
Δ	DELTA	R/W & ROW	RIGHT OF WAY
E	EASTING/EAST	S	SPEED OR SLOPE
EA	EACH	SAN	SANITARY SEWER
EBL	EAST BOUND LANE	SANMH	SANITARY SEWER MANHOLE
EC	EROSION CONTROL	SBL	SOUTH BOUND LANE
ECB	EROSION CONTROL BLANKET	SCH	SCHEDULE
ED	EDGE OF CURB	SD	SIGHT DISTANCE
EGL	ENERGY GRADIENT LINE	SEC	SECTION
EL	ELEVATION	SEW	SEWER
ELEC	ELECTRIC	SF	SQUARE FEET
ELEV	ELEVATION	SH	SHOULDER
ENGR	ENGINEER	SP	SPACE OR SITE PLAN
ENT	ENTRANCE	SPEC	SPECIFICATIONS
EOA	EDGE OF ASPHALT	STA	STATION
EOC	EDGE OF CONCRETE	STANDARD	STANDARD
EOP	EDGE OF PAVEMENT	STK	STACK
EQUIP	EQUIPMENT	STM	STORM SEWER
ESMT	EASEMENT	STMH	STORM SEWER MANHOLE
ETD	EXISTING TO BE DEMOLISHED	STR	STREET
ETR	EXISTING TO REMAIN	SVC	SERVICE
ETRL	EXISTING TO BE RELOCATED	SW	SIDEWALK
ETRP	EXISTING TO BE REPLACED	SWM	STORM WATER MANAGEMENT
EVCE	ENDING VERTICAL CURVE ELEVATION	SX	CROSS SLOPE
EVCS	ENDING VERTICAL CURVE STATION	SY	SQUARE YARD
EW	END WALL	T	TANGENT
EX	EXISTING	T	TOP OF BANK OR TEST BORING
EQC	ENVIRONMENTAL QUALITY CORRIDOR	TBR	TO BE REMOVED
F	FIRE LINE	TOC	TOP OF CURB
FAR	FLOOR AREA RATIO	Tc	TIME OF CONCENTRATION
FDC	FACE OF CURB	TEL	TELEPHONE
FD	FLOOR DRAIN	TEMP	TEMPORARY
FE	FLARED END SECTION	TH	TEST HOLE
FF	FIRST FLOOR OR FINISH FLOOR	TOF	TOP OF FOUNDATION
FG	FINISH GRADE	TOP	TOP OF PIPE
FH	FIRE HYDRANT	TP	TEST PIT OR TREE PROTECTION
FL	FLOW LINE	TP	TOP OF WALL OR TAILWATER
FND	FOUNDATION	TYP	TYPICAL
FOD	FLOOD PLAIN	UE	UTILITY EASEMENT
FPS	FEET PER SECOND	UG	UNDERGROUND
FS	FIRE SERVICE OR FACTOR OF SAFETY	UGE	UNDERGROUND ELECTRIC
FT	FOOT OR FEET	UGT	UNDERGROUND TELEPHONE
G	GAS	UGC	UNDERGROUND CABLE
GAR	GARAGE	UD	UNDERDRAIN
GB	GRADE BREAK	UL	UPPER LEVEL
GFA	GROSS FLOOR AREA	UP	UTILITY POLE
GR	GUARD RAIL OR GRATE INLET	USGS	US GEOLOGICAL SURVEY
GV	GATE VALVE	UTL	UTILITY
H	HEAD	V OR VOL	VOLUME
HC	HANDICAP	V OR VEL	VELOCITY
HB	HORIZONTAL BEND	VAN	HANDICAPPED VAN PARKING SPACE
HBP	HOT BITUMINOUS PAVEMENT	VB	VERTICAL BEND
HGL	HYDRAULIC GRADE LINE	VC	VERTICAL CURVE
HORZ	HORIZONTAL	VF	VERTICAL FOOT
HP	HIGH POINT	W	WEIGHT OR WIDTH
HR	HAND RAIL	WBL	WEST BOUND LANE
HT	HEIGHT	WL	WATER LINE
HW	HEADWATER	WM	WATER METER
I	RAINFALL INTENSITY	W/M OR WM	WATER MAIN
ID	INSIDE DIAMETER OR IDENTIFICATION	W/TB	WITH THRUST BLOCK
IE	INVERT ELEVATION	WSL	WATER SURFACE ELEVATION
IN	INCH	WV	WATER VALVE
INV	INVERT	XING	CROSSING
IP	IRON PIPE	XF	TRANSFORMER
IPF	IRON PIPE FOUND	YI	YARD INLET
IPS	IRON PIPE SET	YR	YEAR
IRR	IRRIGATION		
JB	JUNCTION BOX		
JNT	JOINT		

GENERAL NOTES

- UTILITY CONFLICTS: ALL EXISTING UTILITIES SHOWN WERE COMPILED USING THE BEST AVAILABLE INFORMATION AND FIELD OBSERVATION. BOWMAN CONSULTING INC. 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.
- 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.
- CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARDS, SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.
- 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.
- 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.
- THE CONTRACTOR SHALL REPAIR ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY HIS/HER CONSTRUCTION.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL CONTACT NC811 AT 1-800-632-4949 AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ANY INVESTED UTILITY COMPANY.
- THE CONTRACTOR SHALL OBTAIN COPIES OF THE "SOILS AND INFESTIGATION" REPORT FROM GEOTECHNICAL ENGINEER ALONG WITH THE "PAVEMENT THICKNESS DESIGN REPORT". THE CONTRACTOR MUST HAVE COPIES OF SAME ON THE SITE AT ALL TIMES.
- 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.
- 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.
- 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.
- REFER TO FINAL RECORDED PLAT FOR ACTUAL LOT, TRACT, PARCEL, AND EASEMENT LOCATIONS AND DESIGNATIONS.
- 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.
- 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.
- 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.
- ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE PROPERTY LIMITS DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR.
- ANY CONSTRUCTION DEBRIS OR MUD TRACKING IN THE PUBLIC RIGHT-OF-WAY RESULTING FROM THIS DEVELOPMENT SHALL BE REMOVED IMMEDIATELY BY 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.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO GRADE STREET CORES, RIGHT-OF-WAY TEMPLATES, AND LOTS ACCORDING TO GRADING INSTRUCTIONS SHOWN ON PLANS.
- STREET CONTOURS SHOWN AT PROPOSED STREET LOCATIONS REPRESENT FINISHED GRADE ELEVATION TO TOP OF ASPHALT.
- COMPACTION FILL MATERIAL SHALL BE COMPACTED ACCORDING TO THE APPROPRIATE GOVERNING AGENCY REGULATIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- TOLERANCE ROUGH GRADING: TOLERANCE SHALL BE +/- 0.1 FEET.
- 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.
- 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.
- 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.
- 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 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.
- ALL STEPS WITH THREE OR MORE RISERS SHALL HAVE HAND RAILS, PER LOCAL CODE.
- 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.
- 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.
- ALL RIGHT-OF-WAY DEDICATED FOR PUBLIC USE SHALL BE CLEAR AND UNENCUMBERED.
- AN AIR QUALITY PERMIT SHALL BE OBTAINED IF REQUIRED.
- 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.
- 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.
- 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.
- ALL RETAINING WALLS 4' IN HEIGHT AND OVER (MEASURED FROM BOTTOM OF FOOTER TO TOP OF WALL) REQUIRE A SEPARATE BUILDING PERMIT.
- THE APPROVAL OF THIS PLAN DOES NOT CONSTITUTE THE APPROVAL OF FIELD WORK.
- ALL HANDICAPPED SPACES SHALL HAVE AN ABOVE GRADE IDENTIFICATION SIGN MEETING APPROPRIATE GOVERNING AGENCY STANDARDS.
- 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.

GENERAL NOTES (CONT.)

- 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.
- 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.
- 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.
- THE APPROVAL OF THIS PLAN SHALL IN NO WAY GRANT PERMISSION FOR THE CONTRACTOR TO TRESPASS ON OFF-SITE PROPERTIES.
- THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF COMPLYING WITH OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- THESE PLANS MAKE NO REPRESENTATION AS TO THE SUBSURFACE CONDITIONS AND THE PRESENCE OF SUBSURFACE WATER OR THE NEED FOR SUBSURFACE DRAINAGE FACILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING ALL NECESSARY INSPECTIONS.
- EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- 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.
- 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.
- EXCAVATION SUPPORT SYSTEMS SHALL CONFORM TO THE PROVISIONS OF OSHA CONSTRUCTION STANDARD 29 CFR PART 1926 SUBPART P, OR CURRENT EDITION.
- 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.
- ANY NEW PAVEMENT OPENED TO TRAFFIC SHALL RECEIVE A TACK COAT PRIOR TO PLACEMENT OF ANY OVERLYING ASPHALT COURSE.
- ALL SIDEWALKS TO BE 4" THICK CONCRETE UNLESS OTHERWISE SHOWN ON THE PLAN.
- ALL DEMOLITION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE APPROPRIATE GOVERNING AGENCY.
- ALL APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING DEMOLITION.
- 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.
- 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.
- 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.
- 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.
- THE STORM DRAIN, STORMWATER MANAGEMENT AND WATER QUALITY FACILITIES MUST BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE AERON AND CONSTRUCTION OPERATIONS THAT ARE A PART OF THE PROJECT ARE COMPLETE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS A PART OF THIS PROJECT.
- 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%.
- DURING CONSTRUCTION, NO TEMPORARY CONNECTIONS TO FIRE HYDRANTS MAY BE MADE WITHOUT THE EXPRESS AUTHORIZATION OF THE UTILITY OWNER.
- THE CONTRACTOR SHALL REMOVE ALL SEDIMENT, MUD AND CONSTRUCTION DEBRIS THAT MAY ACCUMULATE IN THE FLOWLINES AND PUBLIC RIGHTS-OF-WAY OF THE APPROPRIATE GOVERNING AGENCY AS A RESULT OF THIS CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER.
- THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION AND CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS A PART OF THIS PROJECT.
- ALL DISTURBED AREAS MUST BE HYDRO-MULCHED W/ TACKIFIER AFTER

UTILITY STATEMENT:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CAUTIONARY NOTE:
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED ON ABOVE GROUND EVIDENCE OR INFORMATION GATHERED DURING THE FIELD SURVEY PORTION OF THIS PROJECT. AS SUCH, THIS INFORMATION IS SPECULATIVE IN NATURE. ONLY AND SHOULD NOT BE CONSTRUED AS FACT. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF THE UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF ANY AND ALL CONSTRUCTION.

EROSION CONTROL NOTES:
AN EROSION AND SEDIMENTATION CONTROL PERMIT SHALL BE REQUIRED BY NCDEQ PRIOR TO START OF CONSTRUCTION.

SURVEY NOTE:
ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A LAND SURVEY PREPARED BY:
BOWMAN NORTH CAROLINA LTD.

STREAM/WETLAND NOTE:
THERE ARE NO EXISTING STREAM/AND OR WETLAND FEATURES ON THE PROPOSED PARCEL.

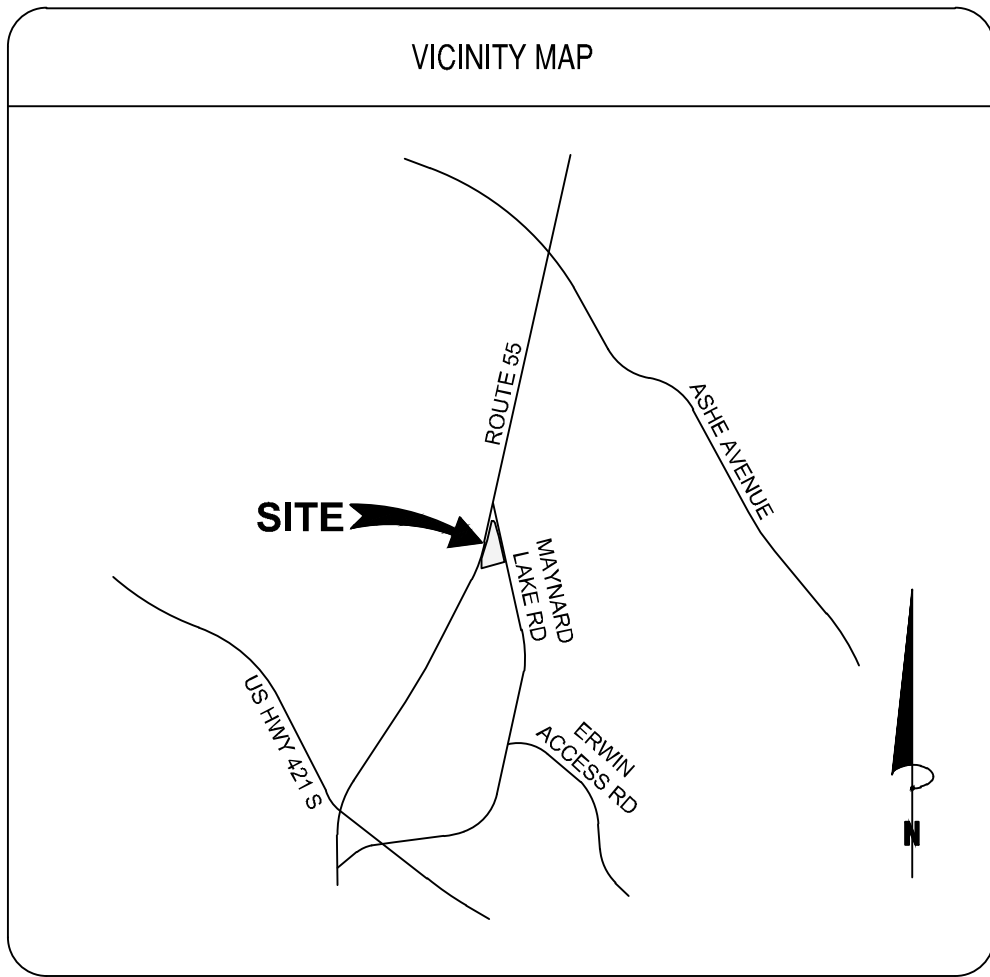
FLOOD ZONE NOTE:
THE PROPERTY IS LOCATED IN FLOOD ZONE X AS SHOWN ON FEMA FLOOD PANEL 37200598004, DATED OCTOBER 3, 2006. MAPS SUBJECT TO CHANGE BY FEMA.

- DEMOLITION NOTES**
1. THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO DEMOLITION.
 2. THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS AND AS DIRECTED BY THE OWNER.
 3. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS AND PAY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE APPROPRIATE AUTHORITIES.
 4. THE CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND ACQUIRE APPROPRIATE PERMITS AS REQUIRED PRIOR TO THE COMMENCEMENT OF DEMOLITION.
 5. THE DEMOLITION PLAN IS INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY PRIOR TO WORK.
 6. CONTRACTOR TO COMPLETELY DEMOLISH AND DISPOSE OF OFFSITE IN A LAWFUL MANNER EXISTING BUILDINGS, INCLUDING FOUNDATIONS AND ALL APPURTENANCES LOCATED ON AND AROUND THE PROPERTY INCLUDING BUT NOT LIMITED TO BOLLARDS, GAS METERS, AIR CONDITIONING UNITS, SIGNS, CURBS, SIDEWALKS, ELECTRIC METERS, FENCING, ETC.
 7. REMOVE AND DISPOSE OF ANY SIDEWALK, FENCES, STAIRS, WALLS, FOUNDATIONS, CONDUITS, LIGHT POLE BASES, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED LANDFILL.
 8. REMOVE AND/OR PLUG EXISTING UTILITIES SUCH AS SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE AS SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY TO COORDINATE REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING WORK.
 9. THE CONTRACTOR SHALL CUT AND PLUG, OR ARRANGE FOR THE APPROPRIATE UTILITY COMPANY TO CUT AND PLUG ALL SERVICE PIPING AT THE STREET LINE OR MAIN, AS REQUIRED, OR AS OTHERWISE NOTED. ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTEND OF SERVICE PIPING TO BE REMOVED, CUT OR PLUGGED.
 10. THE CONTRACTOR SHALL ARRANGE FOR RESETTling OF CURB BOXES, VALVE BOXES AND REMOVAL AND/OR RELOCATION OF OVERHEAD UTILITIES AND POLES WITH THE APPROPRIATE UTILITY COMPANY.
 11. INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION WORK.
 12. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
 13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACE. FINISH SURFACE TO BE REMOVED OR DEMOLISHED SHALL BE CUT ALONG LINES OF JOINTS WHICH WILL PERMIT A NEAT SURFACE WHEN RESTORED.
 14. SAWCUT AT INTERFACE OF PAVEMENT OR CURB TO REMAIN. SAWCUT EXISTING PAVEMENT.
 15. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR.
 16. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
 17. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
 18. ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR.
 19. THE PROPERTY SELLER SHALL PUMP OUT BUILDING FUEL, GREASE TRAPS, AND WASTE OIL TANKS (IF ANY ARE ENCOUNTERED) AND REMOVE FUEL TO AN APPROVED DISPOSAL AREA BY AN APPROPRIATELY LICENSED WASTE OIL HANDLING CONTRACTOR IN STRICT ACCORDANCE WITH FEDERAL AND STATE REQUIREMENTS BEFORE CONSTRUCTION BEGINS.
 20. THE CONTRACTOR SHALL PROPERLY AND LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS OFF OF THE SITE.

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.

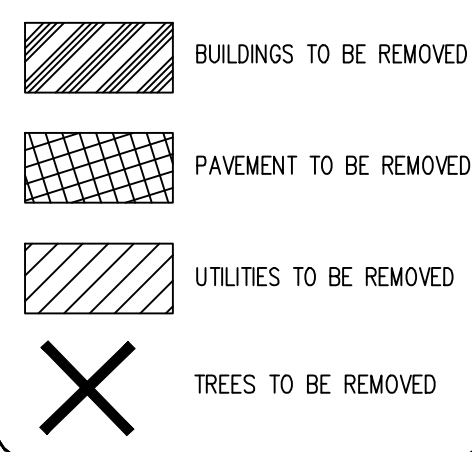
VICINITY MAP



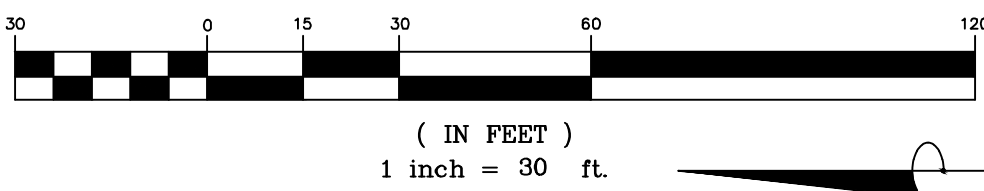
DEMOLITION NOTES

- 1 EXISTING BUILDING TO BE REMOVED
- 2 CONCRETE CURB TO BE REMOVED
- 3 CONCRETE PAVEMENT / SIDEWALK TO BE REMOVED
- 4 ASPHALT PAVEMENT TO BE REMOVED
- 5 OPEN SPACE TO BE CLEARED AND GROOMED
- 6 EXISTING TREE TO BE REMOVED
- 7 SIGN / BOLLARD TO BE REMOVED
- 8 REMOVE UTILITY PER PROVIDER REQUIREMENTS
- 9 REMOVE VEGETATION
- 10 REMOVE DRIVEWAY

DEMOLITION LEGEND



GRAPHIC SCALE



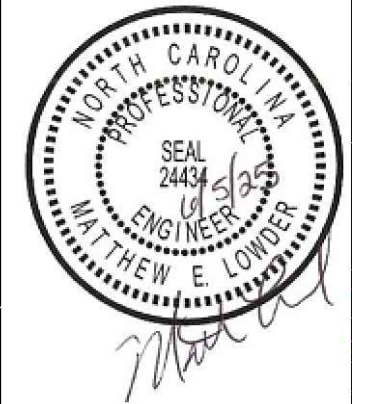
LINE TABLE		
LINE	BEARING	LENGTH
L9	N 83°38'26" E	26.19'
L10	S 33°27'26" E	34.70'

DEMOLITION PLAN

DOLLAR GENERAL

NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA

Bowman North Carolina Ltd.
4006 BARRETT DR
Suite 104
RALEIGH, NC 27609
Phone: (919)553-6570
bowman.com
Bowman North Carolina Ltd.



ISSUED FOR
CONSTRUCTION

PLAN STATUS		
2/10/2025	1ST SUBMITTAL	
3/18/2025	REVISIONS PER NOTED COMMENTS	
4/4/2025	2ND SUBMITTAL	
6/3/2025	REVISIONS PER NOTED COMMENTS	
6/5/2025	REVISIONS PER NOTED COMMENTS	
DATE	DESCRIPTION	
ML DESIGN	KXO DRAWN	ML CHKD
SCALE	H: 1" = 30' V: 1" = 10'	
JOB No.	220154-01-001	
DATE	FEBRUARY 10, 2025	
FILE No.		

SHEET **C2.0**

DITCH	FLOW Q(10)	LONG. SLOPE(%)	H	B	W	SS	CHANNEL LINING
TEMPORARY DITCH #1	6.7 CFS	1.0%	1.5'	1.0'	7.0'	2:1	STRAW WITH NET NAG C125BN

EXTEND LINING TO
TOP OF DITCH

W

EXTEND LINING TO
TOP OF DITCH

H

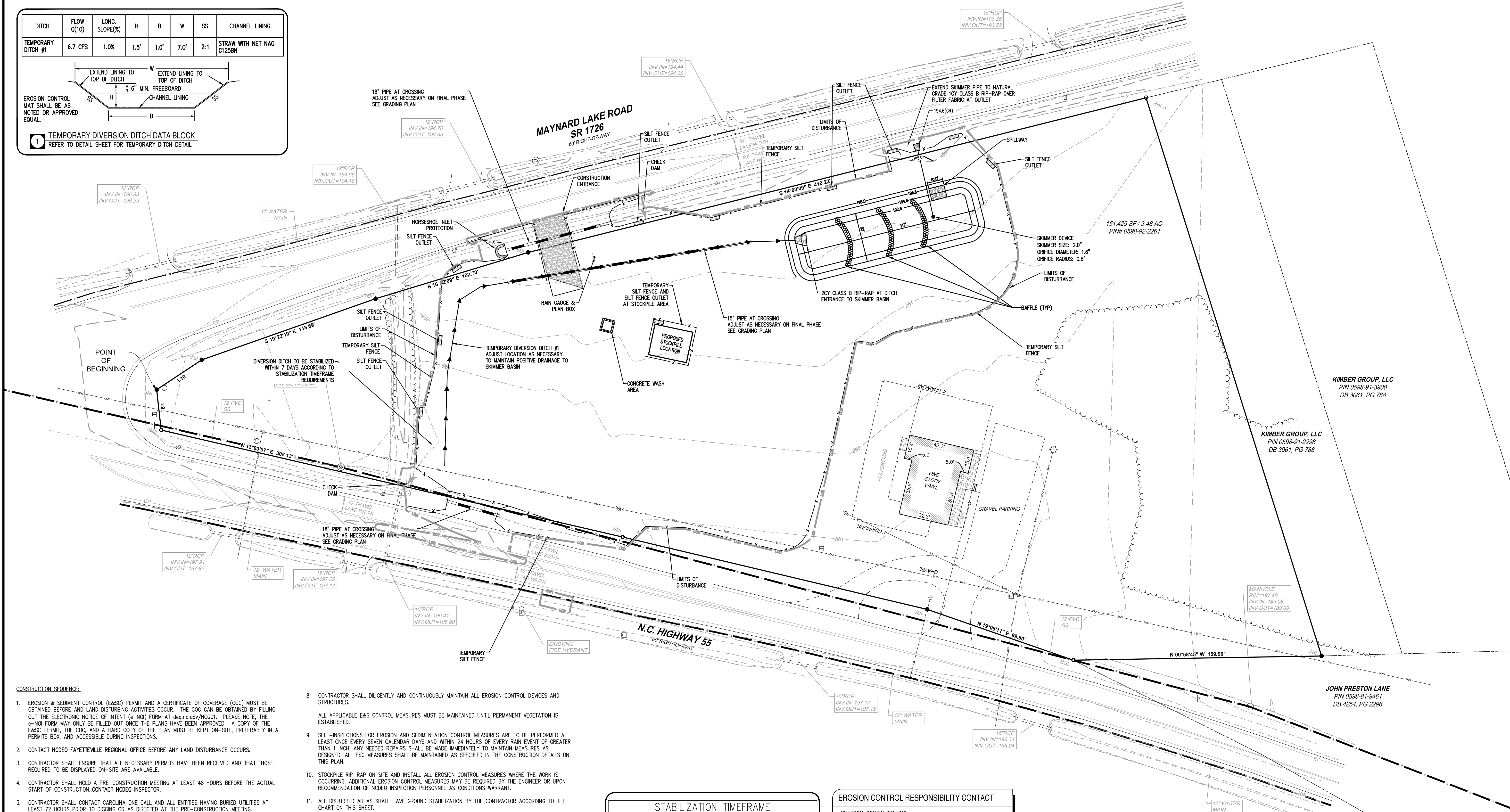
6" MIN. FREEBOARD

CHANNEL LINING

B

EROSION CONTROL
MAT SHALL BE AS
NOTED OR APPROVED
EQUAL.

1 TEMPORARY DIVERSION DITCH DATA BLOCK
REFER TO DETAIL SHEET FOR TEMPORARY DITCH DETAIL



CONSTRUCTION SEQUENCE:

- EROSION & SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE AND LAND DISTURBING ACTIVITIES OCCUR. THE COC CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (e-NOI) FORM AT dnr.nc.gov/ncdoi. PLEASE NOTE, THE e-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&SC PERMIT, THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON-SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTIONS.
- CONTACT NCDEQ FAYETTEVILLE REGIONAL OFFICE BEFORE ANY LAND DISTURBANCE OCCURS.
- CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN RECEIVED AND THAT THOSE REQUIRED TO BE DISPLAYED ON-SITE ARE AVAILABLE.
- CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS BEFORE THE ACTUAL START OF CONSTRUCTION. CONTACT NCDEQ INSPECTOR.
- CONTRACTOR SHALL CONTACT CAROLINA ONE CALL AND ALL ENTITIES HAVING BURIED UTILITIES AT LEAST 72 HOURS PRIOR TO DIGGING OR AS DIRECTED AT THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCES AT EACH POINT OF ACCESS TO STORAGE AND CONSTRUCTION AREAS. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION AND TREE REMOVAL OPERATIONS.
- INITIAL PHASE SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH PLANS BEFORE STARTING WORK INCLUDING SILT FENCE, INLET PROTECTION, SKIMMER BASIN, DIVERSION DITCHES, TREE PROTECTION, ETC., CLEARING ONLY AS NECESSARY FOR THE INSTALLATION OF THESE MEASURES.

CONTRACTOR SHALL INCLUDE A RAIN GAUGE AND LOG BOOK CONTAINING THE INSPECTION RECORDS FOR THE SITE

INSTALL SKIMMER BASIN AND TEMPORARY DITCHES - STABILIZE EARTH BERMS AS WELL AS BASIN SLOPES & INSTALL EROSION CONTROL MATTING IN TEMPORARY DIVERSIONS PRIOR TO BEGINNING MASS GRADING OF THE SITE

ONCE THE BASIN/DIVERSION ARE INSTALLED SEED/MULCH IMMEDIATELY

ALL DEMOLITION DEBRIS IS TO GO TO AN APPROVED LANDFILL OR RELATED FACILITY

INITIALLY CONSTRUCT THE GRADE FOR THE BUILDING PAD AND THE PARKING AREAS THAT ARE DRAINING TO THE TEMPORARY SKIMMER BASIN, MAINTAINING STORMWATER RUNOFF TOWARD THE BASIN. ADJUST THE LOCATION OF TEMPORARY DITCHES AS NECESSARY TO DIVERT RUNOFF FROM THE DRAINAGE SYSTEMS TO THE TEMPORARY SKIMMER BASIN. ONCE THESE AREAS ARE UP TO GRADE AND STABILIZED WITH CONCRETE, PAVEMENT, OR VEGETATION THEN DIVERT STORMWATER RUNOFF TO THE PROPOSED STORM DRAINAGE DEVICES AND THE TEMPORARY SKIMMER BASIN CAN BE REMOVED AND THE AREA CAN BE BROUGHT UP TO GRADE. ONCE THE AREA IS UP TO GRADE, STABILIZE WITH CONCRETE, PAVEMENT, OR VEGETATION IMMEDIATELY.

CONTRACTOR TO USE PARKING AREAS ADJACENT TO THE PROPOSED BUILDING FOR LAY-DOWN/STAGING AREAS - MAINTAIN THESE AREAS SO THAT SEDIMENT LOADED RUNOFF WILL BE DIVERTED TO EROSION CONTROL MEASURES. INSTALL SILT FENCE AROUND LAY-DOWN/STAGING AREA AS SHOWN.

- CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
ALL APPLICABLE E&S CONTROL MEASURES MUST BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN.
- STOCKPILE RIP-RAP ON SITE AND INSTALL ALL EROSION CONTROL MEASURES WHERE THE WORK IS OCCURRING. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER OR UPON RECOMMENDATION OF NCDEQ INSPECTION PERSONNEL AS CONDITIONS WARRANT.
- ALL DISTURBED AREAS SHALL HAVE GROUND STABILIZATION BY THE CONTRACTOR ACCORDING TO THE CHART ON THIS SHEET.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE.
- UPON COMPLETION OF THE INSTALLATION AND WITH APPROVAL OF NCDEQ, ALL EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF IN AN ACCEPTABLE MANNER. EACH SECTION SHALL BE SEED/MULCHED IMMEDIATELY AFTER INSTALLATION OF PIPE, STRUCTURE, OR ACCESS. COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.
- WITH APPROVAL OF NCDEQ, THE SKIMMER BASIN SHALL BE DECOMMISSIONED, REMOVING AND DISPOSING OF ALL ACCUMULATED SEDIMENT IN A LAWFUL MANNER. USE SILT BAG/FILTER BAG FOR DEWATERING THE BASIN AND DIVERSION DITCHES. UPON SKIMMER BASIN REMOVAL, THE AREA SHALL BE CONVERTED INTO THE PERMANENT STORMWATER MANAGEMENT FACILITY - WET DETENTION POND.
- DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
- ONCE ADEQUATE PERMANENT GROUND COVER IS ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITH THE APPROVAL OF NCDEQ INSPECTOR.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION & SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, NCDO1, U.S. DEPT. OF AGRICULTURE, AND STATE STANDARDS.
- WHEN THE PROJECT IS COMPLETE, THE PERMITTEES SHALL CONTACT DEMUR TO CLOSE OUT THE E&SC PLAN. AFTER DEMUR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT dnr.nc.gov/ncdoi TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (e-NOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE e-NOT HAS BEEN FILLED OUT.

STABILIZATION TIMEFRAME		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
BASIN & TEMPORARY DIVERSION DITCHES	IMMEDIATELY	NONE
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) 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 50 FT IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES
GROUND COVER REQUIREMENTS:		
THE 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 GROUND COVER SUFFICIENT TO RETAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS ACCORDING TO THE FOLLOWING CHART FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.		

EROSION CONTROL RESPONSIBILITY CONTACT

RHETSON COMPANIES, INC
GREG STEWART
2075 JUNIPER LAKE ROAD
WEST END, NC 27376
910-944-0881
ggreg@rhetsol.com

EROSION CONTROL LEGEND

REFER TO DETAIL SHEET FOR CONSTRUCTION REQUIREMENTS

	CONSTRUCTION ENTRANCE		TEMPORARY INLET PROTECTION
	HORSESHOE INLET PROTECTION		CHECK DAM
	TEMPORARY SILT FENCE OUTLET		PUMP
	FILTER BAG		SKIMMER DEVICE
	RIP RAP APRON		TEMPORARY SILT FENCE
	TREE PROTECTION FENCE		TEMPORARY DIVERSION DITCH
	LIMITS OF DISTURBANCE		



GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

Bowman

Bowman North Carolina Ltd.
4006 BARRETT DR
Suite 104
RALEIGH, NC 27609
Phone: (919)559-6570
bowman.com
Bowman North Carolina Ltd.

EROSION CONTROL PLAN - INITIAL

DOLLAR GENERAL

NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA



ISSUED FOR
CONSTRUCTION

PLAN STATUS		
2/10/2025	1ST SUBMITTAL	
3/18/2025	REVISIONS PER NCDEQ COMMENTS	
4/4/2025	2ND SUBMITTAL	
6/3/2025	REVISIONS PER NCDEQ COMMENTS	
6/5/2025	REVISIONS PER NCDEQ COMMENTS	
DATE	DESCRIPTION	
ML	KXO	ML
DESIGN	DRAWN	CHKD
SCALE	H: 1"=30' V:	
JOB No.	220154-01-001	
DATE	FEBRUARY 10, 2025	
FILE No.		
SHEET		
C2.1		

DITCH	FLOW Q(10)	LONG. SLOPE(%)	H	B	W	SS	CHANNEL LINING
TEMPORARY DITCH #1	6.7 CFS	1.0%	1.5'	1.0'	7.0'	2:1	STRAW WITH NET NAG C125BN

W

EXTEND LINING TO TOP OF DITCH

6" MIN. FREEBOARD

EXTEND LINING TO TOP OF DITCH

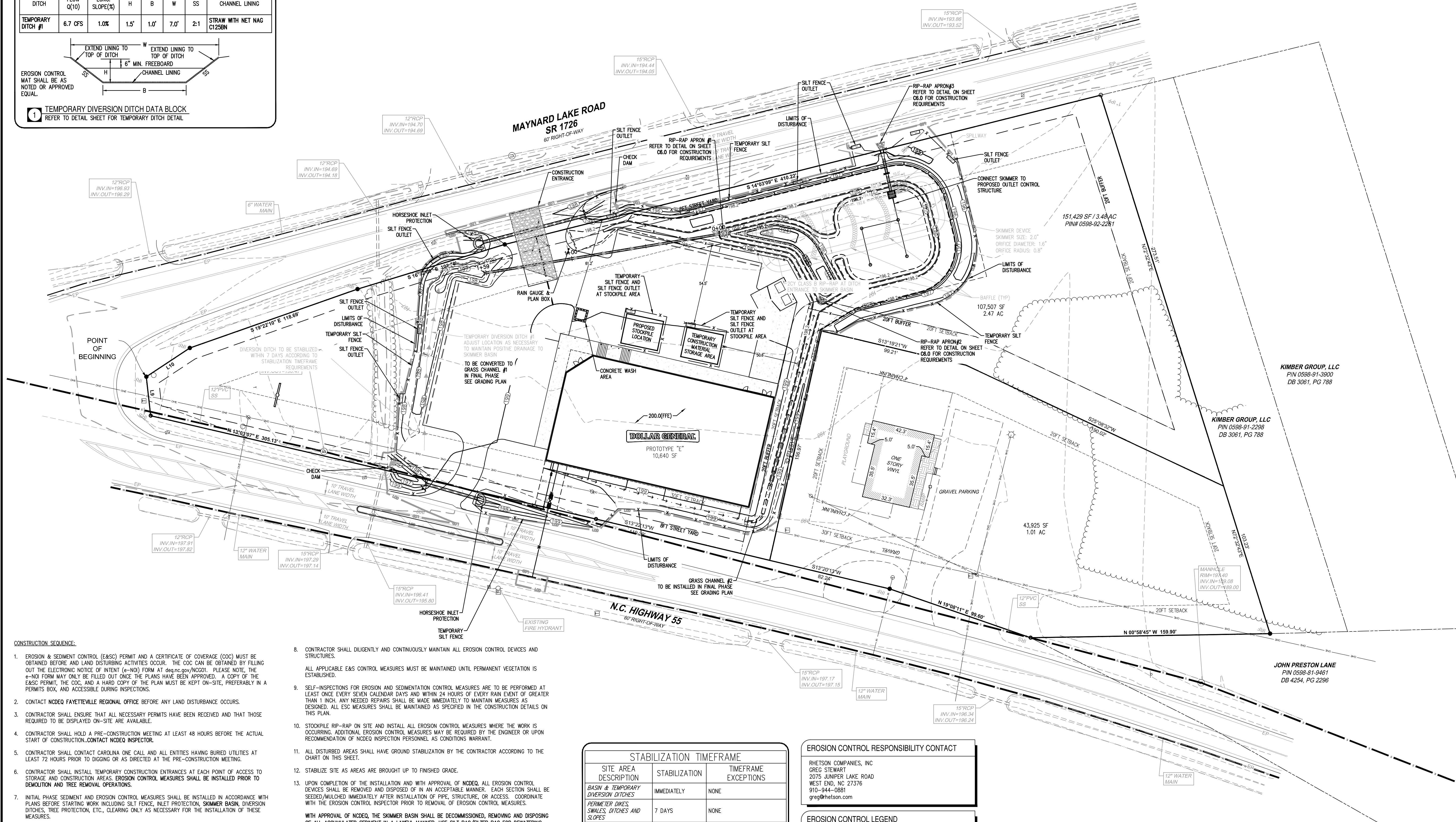
H

B

CHANNEL LINING

EROSION CONTROL MAT SHALL BE AS NOTED OR APPROVED EQUAL.

1 TEMPORARY DIVERSION DITCH DATA BLOCK
REFER TO DETAIL SHEET FOR TEMPORARY DITCH DETAIL



CONSTRUCTION SEQUENCE:

- EROSION & SEDIMENT CONTROL (E&S) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE AND LAND DISTURBING ACTIVITIES OCCUR. THE COC CAN BE OBTAINED BY FILING OUT THE ELECTRONIC NOTICE OF INTENT (e-NOI) FORM AT deq.nc.gov/ncocoi. PLEASE NOTE, THE e-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&S PERMIT, THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON-SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTIONS.
- CONTACT NCDEQ FAYETTEVILLE REGIONAL OFFICE BEFORE ANY LAND DISTURBANCE OCCURS.
- CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN RECEIVED AND THAT THOSE REQUIRED TO BE DISPLAYED ON-SITE ARE AVAILABLE.
- CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS BEFORE THE ACTUAL START OF CONSTRUCTION. CONTACT NCDEQ INSPECTOR.
- CONTRACTOR SHALL CONTACT CAROLINA ONE CALL AND ALL ENTITIES HAVING BURIED UTILITIES AT LEAST 72 HOURS PRIOR TO DIGGING OR AS DIRECTED AT THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCES AT EACH POINT OF ACCESS TO STORAGE AND CONSTRUCTION AREAS. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION AND TREE REMOVAL OPERATIONS.
- INITIAL PHASE SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH PLANS BEFORE STARTING WORK INCLUDING SILT FENCE, INLET PROTECTION, SKIMMER BASIN, DIVERSION DITCHES, TREE PROTECTION, ETC., CLEARING ONLY AS NECESSARY FOR THE INSTALLATION OF THESE MEASURES.

CONTRACTOR SHALL INCLUDE A RAIN GAUGE AND LOG BOOK CONTAINING THE INSPECTION RECORDS FOR THE SITE

INSTALL SKIMMER BASIN AND TEMPORARY DITCHES - STABILIZE EARTH BERMS AS WELL AS BASIN SLOPES & INSTALL EROSION CONTROL MATTING IN TEMPORARY DIVERSIONS PRIOR TO BEGINNING MASS GRADING OF THE SITE

ONCE THE BASIN/DIVERSION ARE INSTALLED SEED/MULCH IMMEDIATELY

ALL DEMOLITION DEBRIS IS TO GO TO AN APPROVED LANDFILL OR RELATED FACILITY

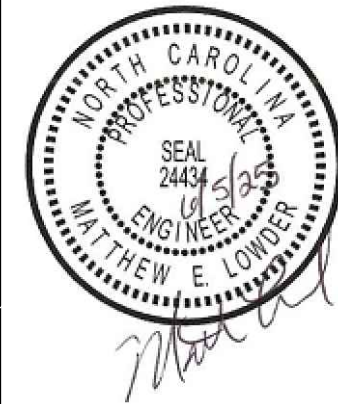
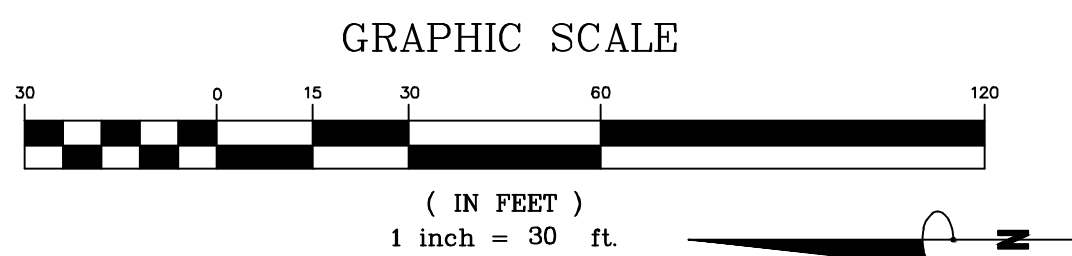
INITIALLY CONSTRUCT THE GRADE FOR THE BUILDING PAD AND THE PARKING AREAS THAT ARE DRAINING TO THE TEMPORARY SKIMMER BASIN, MAINTAINING STORMWATER RUNOFF TOWARD THE BASIN. ADJUST THE LOCATION OF TEMPORARY DITCHES AS NECESSARY TO DIVERT RUNOFF FROM THE DRAINAGE SYSTEMS TO THE TEMPORARY SKIMMER BASIN. ONCE THESE AREAS ARE UP TO GRADE AND STABILIZED WITH CONCRETE, PAVEMENT, OR VEGETATION THEN DIVERT STORMWATER RUNOFF TO THE PROPOSED STORM DRAINAGE DEVICES AND THE TEMPORARY SKIMMER BASIN CAN BE REMOVED AND THE AREA CAN BE BROUGHT UP TO GRADE. ONCE THE AREA IS UP TO GRADE, STABILIZE WITH CONCRETE, PAVEMENT, OR VEGETATION IMMEDIATELY.

CONTRACTOR TO USE PARKING AREAS ADJACENT TO THE PROPOSED BUILDING FOR LAY-DOWN/STAGING AREAS - MAINTAIN THESE AREAS SO THAT SEDIMENT LOADED RUNOFF WILL BE DIVERTED TO EROSION CONTROL MEASURES. INSTALL SILT FENCE AROUND LAY-DOWN/STAGING AREA AS SHOWN.

- CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
ALL APPLICABLE E&S CONTROL MEASURES MUST BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL E&S MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN.
- STOCKPILE RIP-RAP ON SITE AND INSTALL ALL EROSION CONTROL MEASURES WHERE THE WORK IS OCCURRING. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER OR UPON RECOMMENDATION OF NCDEQ INSPECTION PERSONNEL AS CONDITIONS WARRANT.
- ALL DISTURBED AREAS SHALL HAVE GROUND STABILIZATION BY THE CONTRACTOR ACCORDING TO THE CHART ON THIS SHEET.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE.
- UPON COMPLETION OF THE INSTALLATION AND WITH APPROVAL OF NCDEQ, ALL EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF IN AN ACCEPTABLE MANNER. EACH SECTION SHALL BE SEED/MULCHED IMMEDIATELY AFTER INSTALLATION OF PIPE, STRUCTURE, OR ACCESS. COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.
WITH APPROVAL OF NCDEQ, THE SKIMMER BASIN SHALL BE DECOMMISSIONED, REMOVING AND DISPOSING OF ALL ACCUMULATED SEDIMENT IN A LAWFUL MANNER. USE SILT BAG/FILTER BAG FOR DEWATERING THE BASIN AND DIVERSION DITCHES. UPON SKIMMER BASIN REMOVAL, THE AREA SHALL BE CONVERTED INTO THE PERMANENT STORMWATER MANAGEMENT FACILITY - WET DETENTION POND.
DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
- ONCE ADEQUATE PERMANENT GROUND COVER IS ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITH THE APPROVAL OF NCDEQ INSPECTOR.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION & SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, NCDO1, U.S. DEPT. OF AGRICULTURE, AND STATE STANDARDS.
- WHEN THE PROJECT IS COMPLETE, THE PERMITTEES SHALL CONTACT DEMUR TO CLOSE OUT THE E&S PLAN. AFTER DEMUR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT deq.nc.gov/ncocoi TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (e-NOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE e-NOT HAS BEEN FILLED OUT.

STABILIZATION TIMEFRAME		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
BASIN & TEMPORARY DIVERSION DITCHES	IMMEDIATELY	NONE
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) 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 HOW ZONES
GROUND COVER REQUIREMENTS:		
THE 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 GROUND COVER SUFFICIENT TO RETAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS ACCORDING TO THE FOLLOWING CHART FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.		

EROSION CONTROL RESPONSIBILITY CONTACT	
RHETSON COMPANIES, INC GREG STEWART 2075 JUNIPER LAKE ROAD WEST END, NC 27376 910-944-0881 ggreg@rhetsol.com	
EROSION CONTROL LEGEND	
REFER TO DETAIL SHEET FOR CONSTRUCTION REQUIREMENTS	
	CONSTRUCTION ENTRANCE
	HORSESHOE INLET PROTECTION
	TEMPORARY INLET PROTECTION
	TEMPORARY SILT FENCE
	CHECK DAM
	FILTER BAG
	PUMP
	SKIMMER DEVICE
	TEMPORARY SILT FENCE
	TREE PROTECTION FENCE
	TEMPORARY DIVERSION DITCH
	LIMITS OF DISTURBANCE



PLAN STATUS		
2/10/2025	1ST SUBMITTAL	
3/18/2025	REVISIONS PER NCDD COMMENTS	
4/4/2025	2ND SUBMITTAL	
6/3/2025	REVISIONS PER NCDD COMMENTS	
6/5/2025	REVISIONS PER NCDD COMMENTS	
DATE	DESCRIPTION	
ML DESIGN	KXO DRAWN	ML CHKD
SCALE	H: 1"=30'	V: 1"=30'
JOB No.	220154-01-001	
DATE	FEBRUARY 10, 2025	
FILE No.		
SHEET	C2.2	

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

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none">Temporary grass seed covered with straw or other mulches and tackifiersHydroseedingRoll-on erosion control product with or without temporary grass seedAppropriately applied straw or other mulchPlastic sheeting	<ul style="list-style-type: none">Permanent grass seed covered with straw or other mulches and tackifiersGeotextile fabrics such as permanent soil reinforcement mattingHydroseedingStakes or other permanent plantings covered with mulchUniform and evenly distributed ground cover sufficient to restrain erosionStructural methods such as concrete, asphalt or retaining wallsRoll-on erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

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 corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

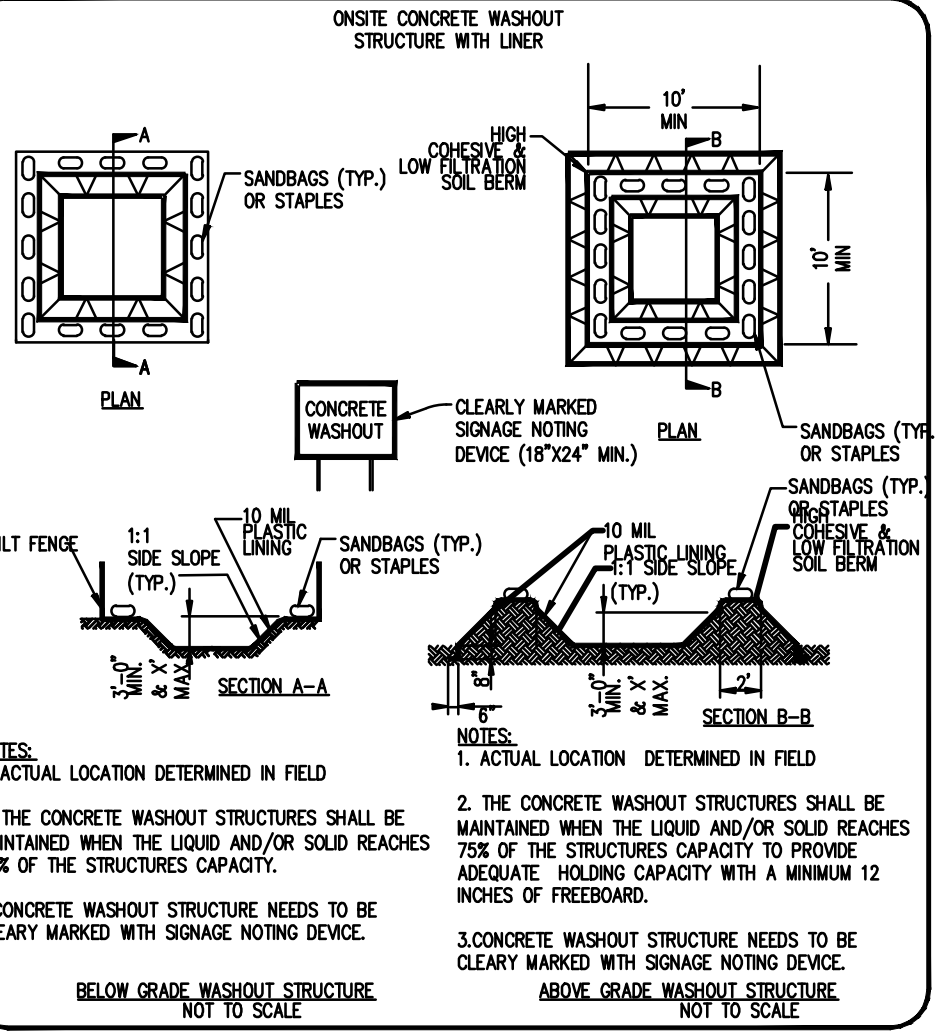
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind all 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 all fence installed along top of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection area 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.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauges maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain monitoring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measures. 6. Description, evidence, and date of corrective actions taken. 7. Identification of the discharge outfalls inspected. 8. Date and time of the inspection. 9. Name of the person performing the inspection. 10. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 11. Indication of visible sediment leaving the site. 12. Description, evidence, and date of corrective actions taken. 13. An evaluation as to the actions taken to control future releases.
(3) Stormwater discharge outfalls (SDO)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken. 7. An evaluation as to the actions taken to control future releases.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Actions taken to clear up or stabilize the sediment that has left the site limits. 2. Description, evidence, and date of corrective actions taken, and 3. An evaluation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. If a stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, an record of the following shall be made: a. Description, evidence and date of corrective actions taken, and b. Records of the required reports to the appropriate Division Regional Office per Part II, Section C, Item (2)(c) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading/installation of perimeter E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbance activity, construction or redevelopment, permanent ground cover. 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

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

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

- E&S Plan Documentation
The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be kept on site and available for inspection at all times during normal business hours.

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

- Additional Documentation to be Kept on Site
In addition to the E&S plan documents above, the following items shall be kept on the site and available for inspection at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practicable:

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

- Documentation to be Retained for Three Years
All data used to complete the e-NOT and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

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

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

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

- Occurrences that Must be Reported
Permittees shall report the following occurrences:
 - Visible sediment deposition in a stream or wetland.
 - Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
 - Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.B5.
 - Anticipated bypasses and unanticipated bypasses.
 - Noncompliance with the conditions of this permit that may endanger health or the environment.

- Reporting Timeframes and Other Requirements
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-2368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired waters conditions.Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(b) Oil spills and release of hazardous substances per item 3.09(c) above	<ul style="list-style-type: none">A report at least two days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(c) Anticipated bypasses [40 CFR 122.41(h)(3)]	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.
(d) Unanticipated bypasses [40 CFR 122.41(h)(3)]	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that contains a description of the noncompliance, and its causes, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(h)(6).Division staff may waive the requirement for a written report on a case-by-case basis.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

NORTH CAROLINA GENERAL PERMIT (NCG01)

DOLLAR GENERAL

NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA

Bowman North Carolina Ltd.

4006 BARRETT DR

Suite 104

RALEIGH, NC 27609

Phone: (919) 553-6570

bowman.com

Bowman North Carolina Ltd.



ISSUED FOR CONSTRUCTION

PLAN STATUS

2/10/2025 1ST SUBMITTAL

3/18/2025 REVISIONS PER NCCOT COMMENTS

4/4/2025 2ND SUBMITTAL

6/3/2025 REVISIONS PER NCCOT COMMENTS

6/5/2025 REVISIONS PER NCCOT COMMENTS

DATE DESCRIPTION

ML KXO ML

DESIGN DRAWN CHKD

SCALE H: 1" = XXX'

V: 1" = XXX'

JOB No. 220154-01-001

DATE FEBRUARY 10, 2025

FILE No.

SHEET

C2.4

Project Name			Land Quality or Local Program Project/Permit #	
Approving Authority	Date of Plan Approval		Expiration Date, if applicable	
NCG010000 Certificate of Coverage Number			Date of COC Issuance	
Coverage under the NCG010000 permit must be renewed annually, if issued after April 1, 2019, until Notice of Termination is filed and approved.				

PART 1B: Phase(s) of the Plan

Check ALL applicable box(es) that apply to completed & current phases	X
Initial installation of erosion and sediment control measures	<input checked="" type="checkbox"/>
Clearing and grubbing of existing ground cover	<input checked="" type="checkbox"/>
Completion of any grading that requires ground cover	<input checked="" type="checkbox"/>
Completion of all land-disturbing activity, construction or development	<input checked="" type="checkbox"/>
Permanent ground cover sufficient to restrain erosion has been established.	<input checked="" type="checkbox"/>

--

Reference	Part 2A: Storm Water Plans and Related Documents	Yes	No	N/A
A	Is the approval letter or certificate, COC and a copy of the NPDES Construction General Permit (CGP) on site? (Readily available electronic copy of CGP is acceptable)			
B	Is the approved plan on site and current?			

Reference	Part 2C: Non-Storm Water Pollutant Controls	Yes	No	N/A
H	Concrete, stucco, paint, etc. washouts: Are washouts installed, properly located, posted and operating with no repairs needed?			
I	Solid & hazardous wastes: Are trash, debris, and hazardous materials properly managed?			
J	Sanitary waste: Are portable toilets properly located and operating with no visible repairs needed?			
K	Equipment and stored fluids: Are fuels, lubricants, hydraulic fluids, etc. contained so as not to enter surface and ground waters?			

For any items listed in the section below, a full description of sedimentation is required in Part 3A. This includes, but may not be limited to: location, estimated amount of sediment that has left the site and/or entered waters, apparent causes of the sediment loss, and what corrective actions need to be taken to prevent this from recurring:

Reference	Part 2D: Sedimentation	Yes	No	N/A
L	Are sediment or other pollutants noted beyond the approved or permitted limits of disturbance?			
M	Are BMPs detected as releasing sediment or other pollutants into receiving waters?			
<p>Report visible sedimentation into streams or wetlands to the appropriate DEQ Regional Office via phone call or email within 24 hours of discovery. https://deq.nc.gov/contact/regional-offices</p>				

Report visible sedimentation into streams or wetlands to the appropriate DEQ Regional Office via phone call or email within 24 hours of discovery. <https://deq.nc.gov/contact/regional-offices>

Must be recorded, at a minimum, after each phase. Add rows as needed.

[illegible]

GROUND STABILIZATION TIMEFRAMES		
Site Area Description	Stabilization	Timeframe Variations
Perimeter dikes, swales and slopes	7 Days	None
High Quality Water (H2O) Zones	7 Days	None
Slopes Steeper than 3:1	7 Days	7 days for perimeter dikes, swales, slopes and H2O zones 14 days for slopes 10 ft or less in length and not steeper than 2:1 10 days for Falls Lake Watershed
Slopes 3:1 to 4:1	14 Days	7 days for perimeter dikes, swales, slopes and H2O zones 7 days for slopes greater than 50 ft in length 10 days for Falls Lake Watershed
All other areas with slopes flatter than 4:1	14 Days	7 days for perimeter dikes, swales, slopes and H2O zones 10 days for Falls Lake Watershed

Erosion and Sedimentation Control Measures Inspected	Inspection Date	Describe Actions Needed	Date	Previous Action(s)

[illegible]

Report unanticipated bypasses, or non-compliance conditions that may endanger health or the environment, to the appropriate DEQ Regional Office via phone call or email within 24 hours of discovery. <https://deq.nc.gov/contact/regional-offices>

Stormwater Discharge Outfalls Inspected	Inspection	Date
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[illegible]

Measure ID or Location and Description	Proposed Dimensions (ft.)	Actual Dimensions (ft.)	Significant Deviation* from Plan? (Y/N)	Date measure observed as installed, altered, relocated or removed	Installed (I) Altered (A) Relocated (R) Removed (X)

*Significant deviation means any omission, alteration or relocation of an erosion or sedimentation control measure that prevents it from performing as intended

Financially Responsible Party (FRP) / Permittee	County
---	--------

INSPECTOR		Name	Employer
Inspector Type (Mark)	<input checked="" type="checkbox"/>	Address	
FRP/Permittee	<input type="checkbox"/>		
Agent/Designee	<input type="checkbox"/>	Phone Number	Email Address
By this signature, I certify in accordance with the NCG010000 permit & G.S. 113A-54.1 that this report is accurate and complete to the best of my knowledge.			
Financially Responsible Party / Permittee or Agent / Designee			Date & Time of Inspection

By this signature, I certify in accordance with the NCG010000 permit & G.S. 113A-54.1 that this report is accurate and complete to the best of my knowledge.

Financially Responsible Party / Permittee or Agent / Designee	Date & Time of Inspection
---	---------------------------

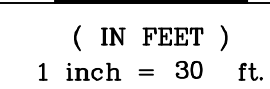
DOLLAR GENERAL®

NC 55 E ERWIN
HARNETT COUNTY NORTH CAROLINA



ISSUED FOR
CONSTRUCTION

PLAN STATUS		
2/10/2025	1ST SUBMITTAL	
3/18/2025	REVISIONS PER INCOG COMMENTS	
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6/5/2025	REVISIONS PER INCOG COMMENTS	
DATE	DESCRIPTION	
ML DESIGN	KXD DRAWN	ML CHKD
SCALE	H: "1" = XXX' V: "1" = XXX'	
JOB No.	220154-01-001	
DATE	FEBRUARY 10, 2025	
FILE No.		
SHEET	C2.5	



VEHICLE EXHIBIT PLAN

DOLLAR GENERAL®

NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA



ISSUED FOR
CONSTRUCTION

PLAN STATUS			
2/10/2025	1ST SUBMITTAL		
3/8/2025	REVISIONS PER NCDOT COMMENTS		
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6/5/2025	REVISIONS PER NCDOT COMMENTS		
DATE	DESCRIPTION		
ML DESIGN	KXO DRAWN	ML CHKD	
SCALE H: 1" = 30' V:			
JOB No. 220154-01-001			
DATE FEBRUARY 10, 2025			
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SHEET			

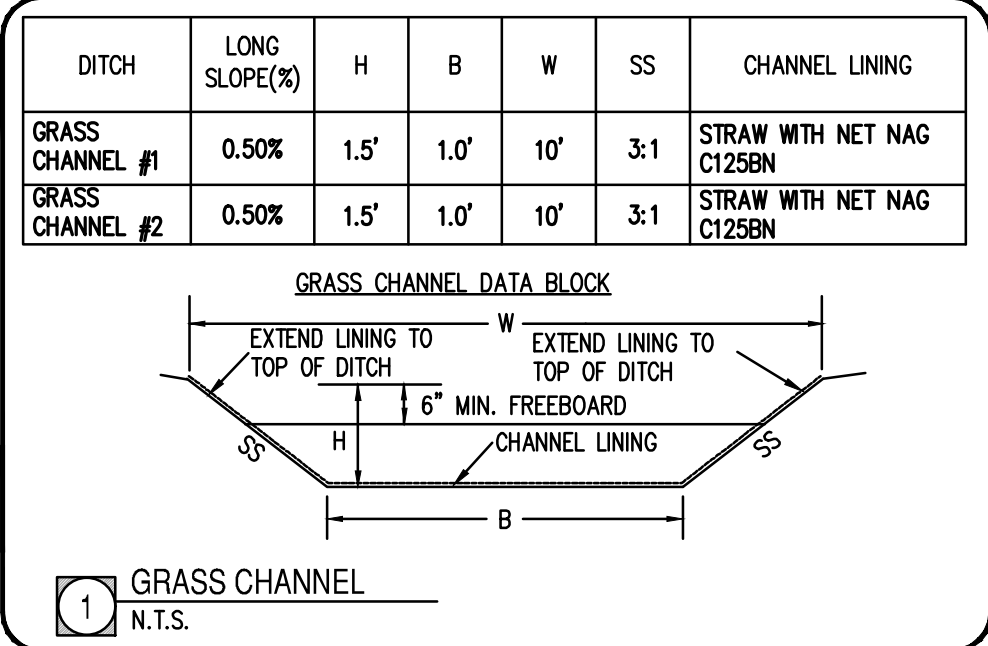
AN EROSION AND SEDIMENTATION CONTROL PERMIT SHALL BE
REQUIRED BY NCDEQ PRIOR TO START OF CONSTRUCTION.

ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION
TAKEN FROM A LAND SURVEY PREPARED BY:
BOWMAN NORTH CAROLINA LTD.

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

THE PROPERTY IS LOCATED IN FLOOD ZONE X AS SHOWN ON
FEMA FLOOD PANEL 3720059800J, DATED OCTOBER 3, 2006
MAPS SUBJECT TO CHANGE BY FEMA.

LINE TABLE		
LINE	BEARING	LENGTH
L9	N 83°38'26" E	26.19'
L10	S 33°27'26" E	34.76'



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 SUBJECT TO A FINE.
11. GRADING WITHOUT AN APPROVED EROSION CONTROL PLAN IS SUBJECT TO A FINE.
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 SLOPES ARE TO BE SEEDED OR LANDSCAPED WITHIN 15 DAYS OF COMPLETION OF GRADING. ALL REMAINING AREAS ARE TO BE SEEDED WITHIN 30 DAYS.
14. EXISTING GRADES, CONTOURS, UTILITIES AND OTHER EXISTING FEATURES FROM FIELD RUN SURVEY.
15. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DETERAWERING 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 UNDESIRABLE 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 DISTURBED 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.

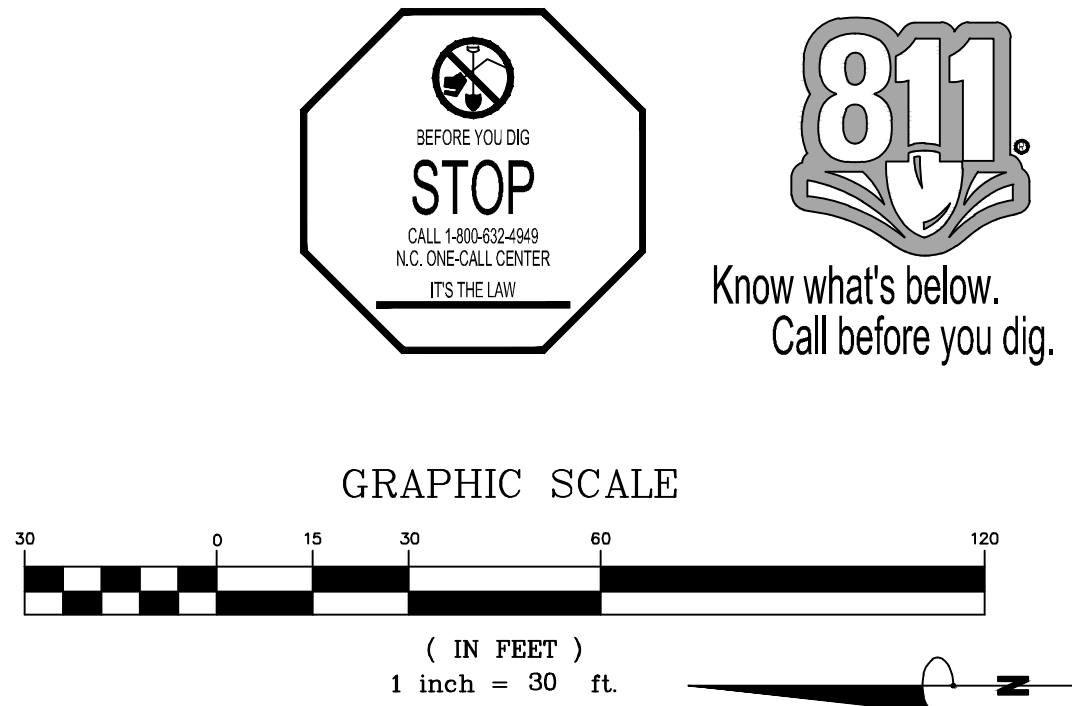
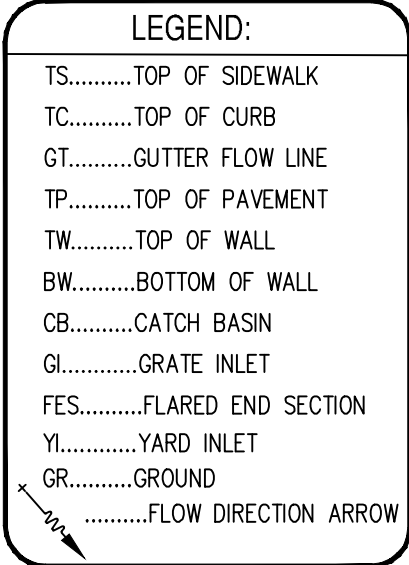
1. A MINIMUM GRADE OF 0.50 % SHALL BE MAINTAINED ON ALL PIPES, UNLESS OTHERWISE NOTED.

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:
 - 3.A. NO MORE THAN 500 LF OF TRENCH MAY BE OPENED AT ONE TIME.
 - 3.B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
 - 3.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.
 - 3.D. MATERIAL USED FOR BACK-FILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 - 3.E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REGULATIONS.
 - 3.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 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS. REFERENCE THE FOLLOWING STANDARD DETAILS:

840.02 – CONCRETE CATCH BASIN	840.03 – FRAME, GRATES, AND HOOD FOR CATCH BASINS
840.14 – CONCRETE DROP INLET	840.04 – CONCRETE OPEN THROAT CATCH BASIN
840.14 – CONCRETE DROP INLET	840.16 – DROP INLET FRAME AND GRATES
840.31 – CONCRETE JUNCTION BOX	840.36 – TRAFFIC BEARING GRATED DROP INLET
840.52 – PRECAST MANHOLE	840.45 – PRECAST DRAINAGE STRUCTURE
838.80 – PRECAST CONCRETE ENDWALL	
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:

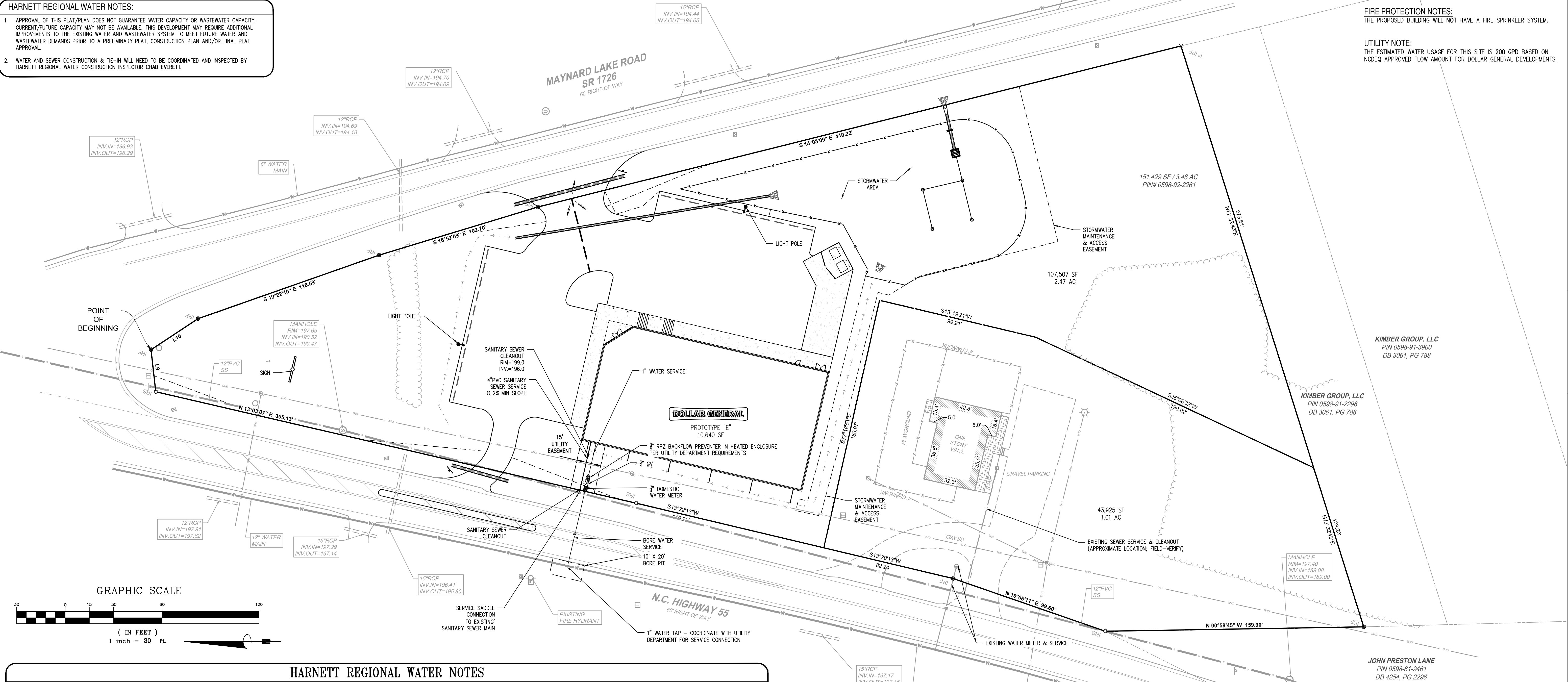
TYPE 1: RCP, CLASS III PER ASTM C-76, WITH FLEXIBLE PLASTIC BITUMEN GASKETS AT JOINTS.

TYPE 2: HIGH DENSITY POLYETHYLENE PIPE (HDPE) – AASHTO DESIGNATION M252 TYPE S, M294 TYPE S AND MP7-97 TYPE S, SMOOTH INTERIOR/ANNUAL 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.



HARNETT REGIONAL WATER NOTES:

- APPROVAL OF THIS PLAT/PLAN DOES NOT GUARANTEE WATER CAPACITY OR WASTEWATER CAPACITY. CURRENT/FUTURE CAPACITY MAY NOT BE AVAILABLE. THIS DEVELOPMENT MAY REQUIRE ADDITIONAL IMPROVEMENTS TO THE EXISTING WATER AND WASTEWATER SYSTEM TO MEET FUTURE WATER AND WASTEWATER DEMANDS PRIOR TO A PRELIMINARY PLAT, CONSTRUCTION PLAN AND/OR FINAL PLAT APPROVAL.
- WATER AND SEWER CONSTRUCTION & TIE-IN WILL NEED TO BE COORDINATED AND INSPECTED BY HARNETT REGIONAL WATER CONSTRUCTION INSPECTOR CHAD EVERETT.



FIRE PROTECTION NOTES:
THE PROPOSED BUILDING WILL NOT HAVE A FIRE SPRINKLER SYSTEM.

UTILITY NOTE:
THE ESTIMATED WATER USAGE FOR THIS SITE IS 200 GPD BASED ON NCEQ APPROVED FLOW AMOUNT FOR DOLLAR GENERAL DEVELOPMENTS.

Bowman North Carolina Ltd.

4006 BARRETT DR
Suite 104
RALEIGH, NC 27609
Phone: (919)553-6570
bowman.com

Bowman North Carolina Ltd.

UTILITY PLAN

NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA

HARNETT REGIONAL WATER NOTES

- The Fire Marshal's Office shall approve all hydrant types and locations in new subdivisions. However, Harnett Regional Water (HRW) prefers the contractors to install one of the following fire hydrants:
 - Muellier - Super Contactor 250 A-423 model with a 5/4" main valve opening three way (two hose nozzles and one pump nozzle).
 - Anderson Darling - Mark B-54-B model with a 5/4" main valve opening three way (two hose nozzles and one pump nozzle).
 - Waterous - Pacer B-47-200 model with a 5/4" main valve opening three way (two hose nozzles and one pump nozzle) or approved equal for standardization.
- Fire hydrants are installed at certain elevations. Any grade change near any fire hydrant, which impedes its operation, shall become the responsibility of the Utility Contractor for correction. Corrections will be monitored by the HRW Utility Construction Inspector and the Harnett County Fire Marshal.
- The Professional Engineer (PE) shall obtain and provide the NCEQ "Authorization to Construct" permit to the Utility Contractor before the construction of the water line shall begin. The Utility Contractor must post a copy of the NCEQ "Authorization to Construct" permit issued by the North Carolina Department of Environmental Quality (NCEQ) on site prior to the start of construction. The permit must be maintained on site throughout the entire construction process of the proposed water lines that will serve this project.
- The Utility Contractor shall notify Harnett Regional Water (HRW) and the Professional Engineer (PE) at least two days prior to construction commencing. The Utility Contractor must schedule a pre-construction conference with Mr. Alan Moss, HRW Utility Construction Inspector at least two (2) days before construction will begin and the Utility Contractor must coordinate with HRW for regular inspection visitations and acceptance of the water system(s). Construction work shall be performed only during the normal working hours of HRW which is 8:00 am - 6:00 pm Monday through Friday. Holiday and weekend work is not permitted by HRW.
- The Professional Engineer (PE) shall provide HRW and the Utility Contractor with a set of NCEQ approved plans marked "Released for Construction" at least two days prior to construction commencing. The Registered Land Surveyor (RLS) should stake out all lot corners and the grade stakes for the proposed finish grade for each street before the Utility Contractor begins construction of the water line(s). The grade stakes should be set with a consistent offset from the street centerline so as not to interfere with the street grading and utility construction.
- The Utility Contractor shall provide the HRW Utility Construction Inspector with material submittals and shop drawings for all project materials prior to the construction of any water line extension(s), and associated water services in Harnett County. The materials to be used on the project must meet the established specifications of HRW and be approved by the Engineer of Record prior to construction. All substandard materials or materials not approved for use in Harnett County found on the project site must be removed immediately when notified by the Harnett County Construction Inspector.
- The water main(s), fire hydrants, service lines, meter setters and all associated appurtenances shall be constructed in strict accordance with the standard specifications of the Harnett Regional Water (HRW). The Utility Contractor shall be responsible to locate the newly installed water main(s), water service lines and all associated meter setters and meter boxes for other utility companies and their contractors until the new water main(s) have been approved by the North Carolina Department of Environmental Quality, Division of Environmental Health, Public Water Supply Section (NCEQ, DER, PWS) and accepted by HRW.
- Prior to acceptance, all services will be inspected to insure that they are installed at the proper depth. All meter boxes must be flush with the ground level at finish grade and the meter setters must be a minimum of 8" below the meter box lid. Meter setters shall be centered in the meter box and supported by brick, block or stone.
- The Utility Contractor shall provide the Professional Engineer (PE) and HRW Utility Construction Inspector with a set of red line drawings identifying the complete water system installed for each project. The red line drawings should identify the materials, pipe sizes and approximate depths of the water lines as well as the gate valves, fire hydrants, meter setters, flow off assemblies and all associated appurtenances for all water line(s) constructed in Harnett County. The red line drawings should clearly identify any deviations from the NCEQ approved plans. All change orders must be approved by HRW and the Professional Engineer (PE) in writing and properly documented in the red line field drawings.
- Potable water mains crossing other utilities and non-potable water lines (sanitary sewer, storm sewer, RCP, etc.) shall be laid to provide a minimum vertical clearance of twenty-four (24) inches between the potable water main and all other utilities. NCEQ requires the new water

- Potable water mains installed parallel to non-potable water lines (sanitary sewer, storm sewer, RCP, etc.) shall be laid to provide a minimum horizontal distance of ten (10) feet between the potable water main and sanitary sewer mains, sewer laterals and services. The horizontal separation between the potable water main and any other utility or storm sewer shall not be less than five (5) feet. The potable water main must be ductile iron pipe if this horizontal separation of ten (10) feet cannot be maintained. The ductile iron pipe shall extend at least ten (10) feet beyond the point where the minimum required horizontal separation of ten (10) feet can be re-established.
- Meter setters shall be installed in pairs on every other lot line where possible to leave adequate space for other utilities to be installed at a later time. The meter setters shall be installed at least one (1) foot inside the right-of-way and at least three (3) to five (5) feet from the property line between the lots. M. HRW requires that meter boxes for 1" services shall be 18" wide x 17" long ABS plastic boxes at least 18" in height with cast iron lids/covers. Meter boxes for 1" services shall be 17" wide x 21" long ABS plastic boxes at least 18" in height with plastic lids and cast iron flip covers in the center of the lids. Meter boxes for 2" services shall be 20" wide x 30" long ABS plastic boxes at least 20" in height with plastic lids and cast iron flip covers in the center of the lids.
- Meter meters must be installed in concrete vaults sized for the meter assembly and associated appurtenances so as to provide at least eighteen (18) inches of clearance between the bottom of the concrete vault and the bottom of the meter setter. The meter meters must be provided test ports if the meter is not equipped with test ports from the manufacturer in accordance with the HRW established standard specifications and details. Ductile iron pipe must be used for the meter meter vault piping and valve vault piping. The Utility Contractor must provide shop drawings for the meter vaults to HRW prior to ordering the concrete vaults.
- The Utility Contractor will install polyethylene SDR-9 water service lines that cross under the pavement inside a schedule 40 PVC conduit to allow for removal and replacement in the future. Two (2) independent 1" water service lines may be installed inside one (1) 2" (2) inch schedule 40 PVC conduit or two (2) independent 1" water service lines may be installed inside one (1) - three (3) inch schedule 40 PVC conduit, but each water service shall be tapped directly to the water main. Split services are not allowed by HRW. If sidewalks are proposed, the conduit must extend past the sidewalk.
- The water main(s), fire hydrants, gate valves, service lines, meter setters and associated appurtenances must be rated for 300 psi and hydraulically pressure tested to 200 psi. The hydrostatic pressure test(s) must be witnessed by the HRW Utility Construction Inspector. The Utility Contractor must notify HRW when they are ready to begin filling in lines and coordinate with Harnett Regional Water to witness all pressure testings.
- The Utility Contractor shall conduct a pneumatic pressure test using compressed air or other inert gas on the stainless steel tapping sleeve(s) prior to making the tap on the existing water main. This pneumatic pressure test must be witnessed by the HRW Utility Construction Inspector. The Utility Contractor shall use Roman brand stainless steel tapping sleeve(s) or approved equal for all taps made in Harnett County. All new water line extensions must begin with a recent wedge type gate valve steel equal to the diameter of the new water line extension in order to provide a means of isolation between Harnett Regional Water's existing water mains and the new water line extensions under construction.
- All water mains will be constructed with SDR-21 PVC Pipe or Class 50 Ductile Iron Pipe rated for at least 200 psi or greater. All pipes must be protected during loading, transport, unloading, staging, and installation. PVC pipe must be protected from extended exposure to sunlight prior to installation.
- All water mains will be flushed and disinfected in strict accordance with the standard specifications of the Harnett Regional Water. All water line samples collected for bacteria testing will be collected by the HRW Utility Construction Inspector and tested in the HRW Laboratory.
- All fittings larger than two (2) inches diameter shall be ductile iron. HRW requires that mechanical joints be assembled with grip rings as Regalg fittings are not approved by Harnett Regional Water for pipe sizes smaller than twelve inches (12") diameter. PVC pipe used for water mains shall be connected by slip joint or mechanical joint with grip rings. Glued pipe joints are not allowed on PVC pipe used for water mains in Harnett County.

- HRW requires that the Utility Contractor install tracer wire in the trench with all water lines. The tracer wire shall be 1/2" gal. insulated, solid copper conductor and it shall be terminated at the top of the valve boxes or manholes. No spliced wire connections shall be made underground on tracer wire installed in Harnett County. The tracer wire may be secured with duct tape to the top of the pipe before backfilling.
- The Utility Contractor will provide Professional Engineer (PE) and the HRW Utility Construction Inspector with a set of red line field drawings to identify the installed locations of the water line(s) and all associated services. All change orders must be pre-approved by HRW and the Professional Engineer (PE) in writing and properly documented in the red line field drawings.
- The Utility Contractor shall spot dig to expose each utility pipe or line which may conflict with construction of proposed water line extensions and advance to verify locations of the existing utilities. The Utility Contractor shall provide both horizontal and vertical clearances to the Professional Engineer (PE) to allow the PE to adjust the water line design in order to avoid conflicts with existing underground utilities. The Utility Contractor shall coordinate with the utility owner and be responsible for temporary relocation and/or securing existing utility poles, pipes, wires, cables, signs and/or utilities including services in accordance with the utility owner requirements during water line installation, grading and street construction.
- Prior to the commencement of any work within established utility easements or NCEQ right-of-way the Utility Contractor is required to have a signed NCEQ encroachment agreement posted on site and notify all concerned utility companies in accordance with G.S. 87-102. The Utility Contractor must call the NC One Call Center at 811 or (800) 888-4949 to verify the location of existing utilities prior to the beginning of construction. Existing utilities shown in these plans are taken from maps furnished by various utility companies and have not been physically located or verified by the P.E. (i.e. TELEPHONE, CABLE, WATER, SEWER, ELECTRICAL, POWER, FIBER OPTIC, NATURAL GAS, ETC.). The Utility Contractor will be responsible to repair any and all damages to the satisfaction of the related utility company.
- The Utility Contractor shall provide HRW with at least one (1) fire hydrant wrench and one (1) break-away flange kit for every subdivision with fire hydrants developed in Harnett County. These items must be provided to HRW before the final inspection will be scheduled by the HRW Utility Construction Inspector. In addition, the Utility Contractor shall install a 4" x 4" concrete curb marker at the edge of the right-of-way to identify the location of each fire hydrant installed in the new water system with the exception of the fire hydrant isolation valves. The contractor must mark the distance from the center of the concrete curb marker to the center of the valve box. This distance (in linear feet) shall be stamped on the brass plate located on the top of this concrete valve marker. In lieu of installing the concrete valve markers, the contractor must mark the distance from the center of the concrete curb marker to the center of the valve box. This distance (in linear feet) shall be stamped on the brass plate located on the top of this concrete valve marker. In lieu of installing the concrete valve markers, the contractor must mark the distance from the center of the concrete curb marker to the center of the valve box. This distance (in linear feet) shall be stamped on the brass plate located on the top of this concrete valve marker. In lieu of installing the concrete valve markers, the contractor must mark the distance from the center of the concrete curb marker to the center of the valve box. This distance (in linear feet) shall be stamped on the brass plate located on the top of this concrete valve marker.
- The Utility Contractor will be responsible for any and all repairs due to leakage damage from poor workmanship during the one (1) year warranty period once the water system will improve as a result of any repairs. Harnett Regional Water, Harnett County, will provide maintenance and repairs when requested and bill the Developer and/or Utility Contractor if necessary due to lack of response within 48 hours of notification of warranty work. The Utility Contractor must pass all tests required by HRW specifications and those of all applicable regulatory agencies. The tests include, but are not limited to: air test, vacuum test, mandrel test, visual test, pressure test, bacteriological test, etc. A HRW Inspector must be present during testing and all test results shall be submitted to HRW. All tests must be satisfied before the final inspection will be scheduled with the HRW Inspector. The Engineer of Record must request in writing to schedule the final inspection once all construction is complete. The Developer, Engineer of Record and the HRW Utility Construction Inspector shall prepare a written punch list of any defects or deficiencies noted during the final inspection, should any exist. Upon completion of the punch list, the Developer's Engineer of Record will schedule another inspection. In the event the number of inspections performed by the HRW exceeds two, additional fees may be assessed to the Developer.

UTILITY NOTES

- THE CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTACT THE LOCAL MUNICIPALITY PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF WORK FOR UTILITY LOCATING SERVICES. ALL UTILITIES SHOWN ARE APPROXIMATE LOCATIONS ONLY AND HAVE BEEN COMPILED FROM THE LATEST AVAILABLE MAPPING. THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE HARNETT COUNTY PUBLIC UTILITIES
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE HARNETT COUNTY PUBLIC UTILITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SANITARY SEWER LINES.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS. A PRE-CONSTRUCTION MEETING WITH THE VARIOUS UTILITY COMPANIES IS REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTOR 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- THE CONTRACTOR SHALL COORDINATE ANY INTERRUPTION OF UTILITY SERVICE WITH THE OWNER AND THE UTILITY COMPANY. ANY PLANNED INTERRUPTION OF UTILITY SERVICE SHALL BE GIVEN A 48 HOUR NOTICE TO THE UTILITY COMPANY AND THE OWNER.
- SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY FOR DIRECTIONS.
- PRESSURE REDUCING VALVES WILL BE REQUIRED ON THE DOMESTIC WATERLINES FOR EACH BUILDING IF THE STATIC PRESSURE IN THE WATER MAIN EXCEEDS 80 PSI. SEE MECHANICAL/PLUMBING PLANS.
- ROUTES SHOWN FOR WATER SERVICES, ELECTRIC, SANITARY SEWER BUILDING LATERALS AND ROOF DRAIN PIPING ARE SUBJECT TO CHANGE.
- THE CONTRACTOR SHALL SAW CUT, REMOVE, AND REPLACE ASPHALT PAVEMENT AS NECESSARY TO INSTALL UNDERGROUND ELECTRIC, TELEPHONE, SEWER, AND WATER.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE SEWERS CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT OWNER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- THE CONTRACTOR SHALL INSURE THAT ALL UTILITY COMPANIES AND HARNETT COUNTY PUBLIC UTILITIES STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTION, RELOCATIONS, INSPECTIONS, AND DEMOLITION.
- THIS PLAN DETAILS PIPES UP TO 5' FROM THE BUILDING FACE. REFER TO THE BUILDING DRAWINGS FOR BUILDING CONNECTIONS, SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY.
- ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT AND REPLACED IN ACCORDANCE WITH THE PAVEMENT REPAIR REQUIREMENTS OF THE HARNETT COUNTY PUBLIC UTILITIES AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION.
- MAINTAIN MINIMUM 10'-0" HORIZONTAL SEPARATION BETWEEN ON-SITE SANITARY SEWER AND DOMESTIC OR IRRIGATION WATER PIPING WHENEVER POSSIBLE. WHERE WATER PIPING MUST CROSS OVER SANITARY SEWER PIPING, MAINTAIN A MINIMUM 18" VERTICAL SEPARATION. WHERE SANITARY SEWER PIPING MUST CROSS OVER WATER PIPING, MAINTAIN A MINIMUM 24" VERTICAL SEPARATION AND PROVIDE MIN. 4" THICK CONCRETE ENCASUREMENT OR 4" CONTINUOUS CAST IRON PIPE SLEEVE ON WATER PIPING FOR A MINIMUM OF 10'-0" ON EACH SIDE OF THE SAN. SEWER CROSSING. WHERE PERMITTED BY LOCAL CODE, DOMESTIC WATER AND SANITARY SEWER SERVICE PIPING MAY BE INSTALLED IN A COMMON TRENCH. TRENCH AND PIPING PLACEMENT SHALL COMPLY WITH ALL GOVERNING CODES AND REGULATIONS.

UTILITY SERVICE NOTES

WATER SERVICE
GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 1" WATER SERVICE LINE FROM EXISTING WATER MAIN TO BUILDING PER MUNICIPAL REQUIREMENTS.

CONTACT: HARNETT COUNTY PUBLIC UTILITIES
TELEPHONE: 910-893-7575

ELECTRIC SERVICE
"DUKE ENERGY" TO PROVIDE UNDERGROUND 120/208/3 PHASE SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL TWO 4" DIA. PVC CONDUIT W/ PULL WIRE TO UTILITY COMPANY POINT OF CONNECTION.
CONTACT: DUKE ENERGY
TELEPHONE: (800) 769-3766

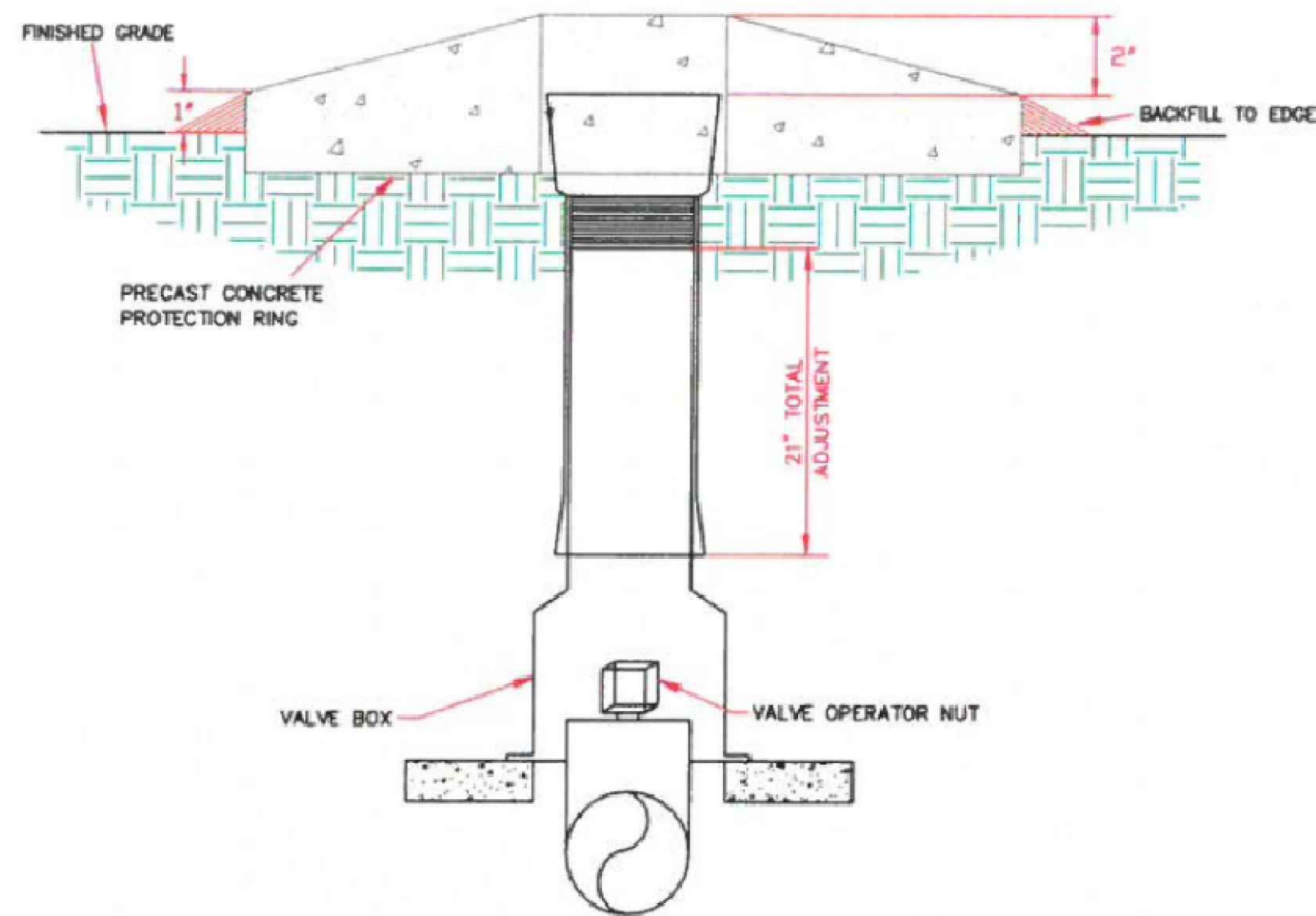
TELEPHONE SERVICE
"DUKE ENERGY" TO PROVIDE UNDERGROUND SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL TWO 4" DIA. PVC CONDUIT W/ PULL WIRE TO UTILITY COMPANY POINT OF CONNECTION.
CONTACT: DUKE ENERGY
TELEPHONE: (800) 769-3766

SANITARY SEWER
GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" SCHEDULE 40 PVC FROM PROPOSED SANITARY SEWER SYSTEM TO LAST CLEAN OUT OUTSIDE OF BUILDING. (MIN. 1% SLOPE). PROVIDE CLEAN OUTS EVERY 75' (TYPICAL).
CONTACT: HARNETT COUNTY PUBLIC UTILITIES
TELEPHONE: 910-893-7575

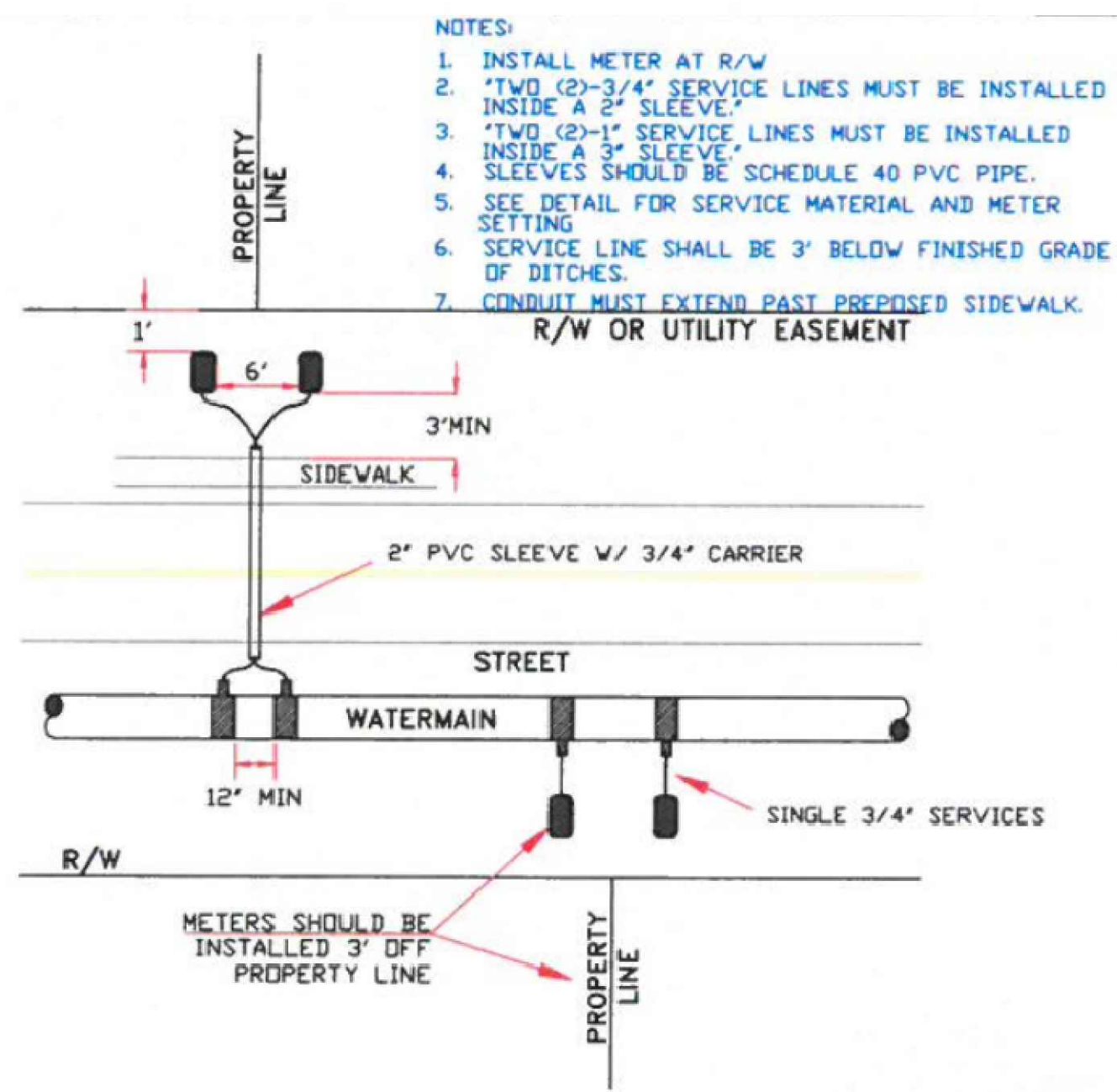
NATURAL GAS
GENERAL CONTRACTOR TO COORDINATE WITH NATURAL GAS UTILITY FOR SERVICE LINE TO PROPOSED BUILDING.
CONTACT: N/A
TELEPHONE:



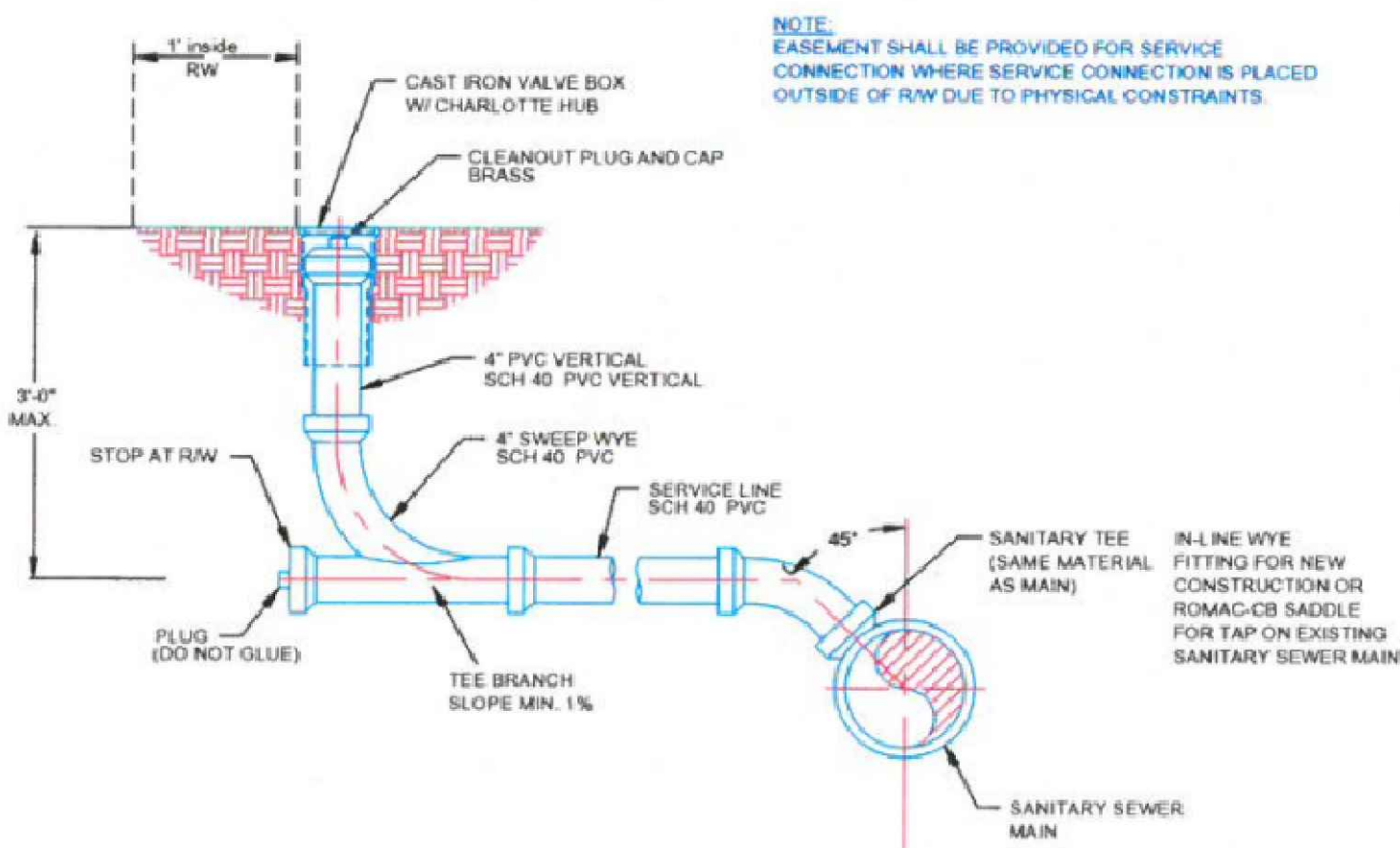
Know what's below.
Call before you dig.



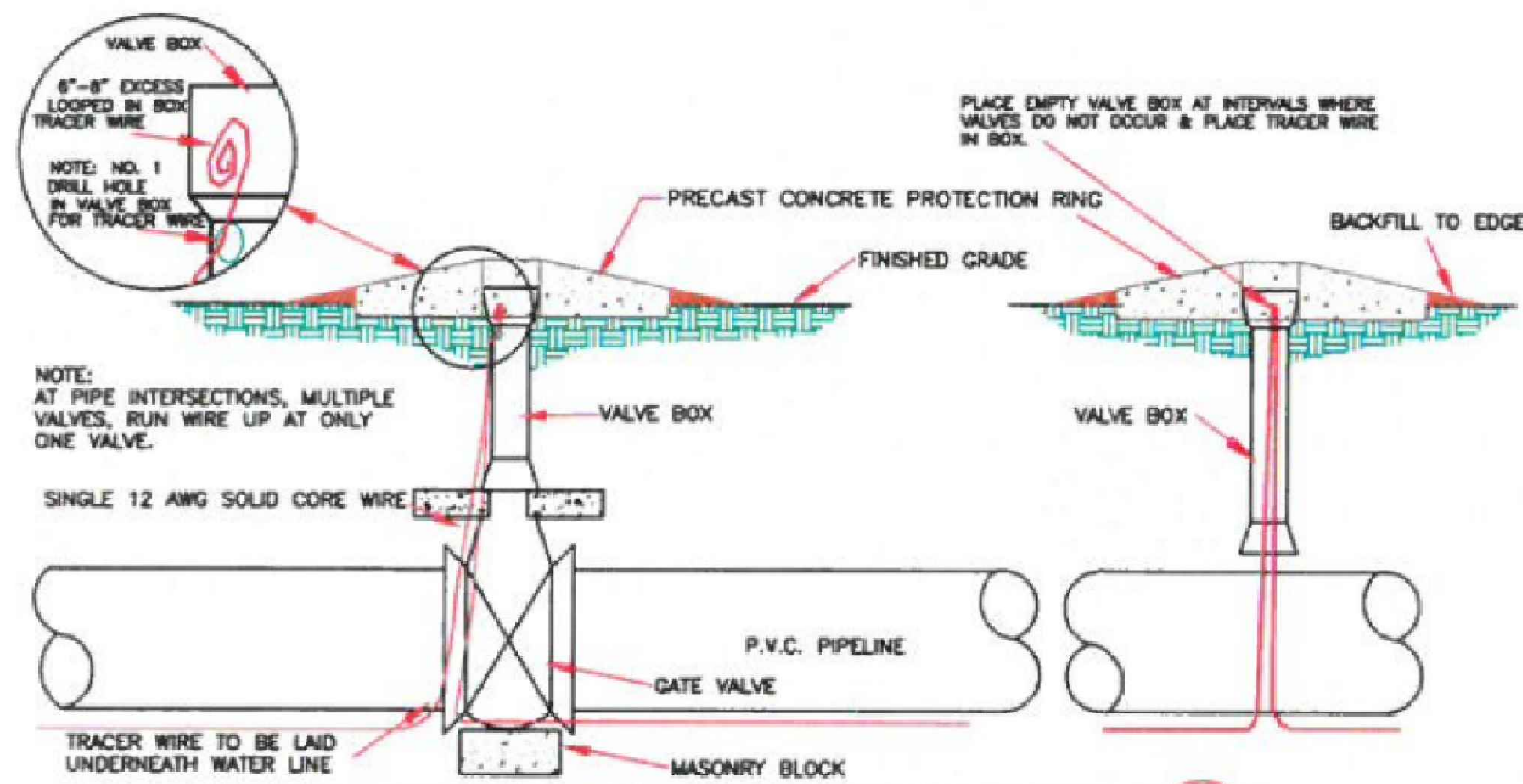
TYPICAL VALVE BOX DETAIL (W 2)
NO SCALE



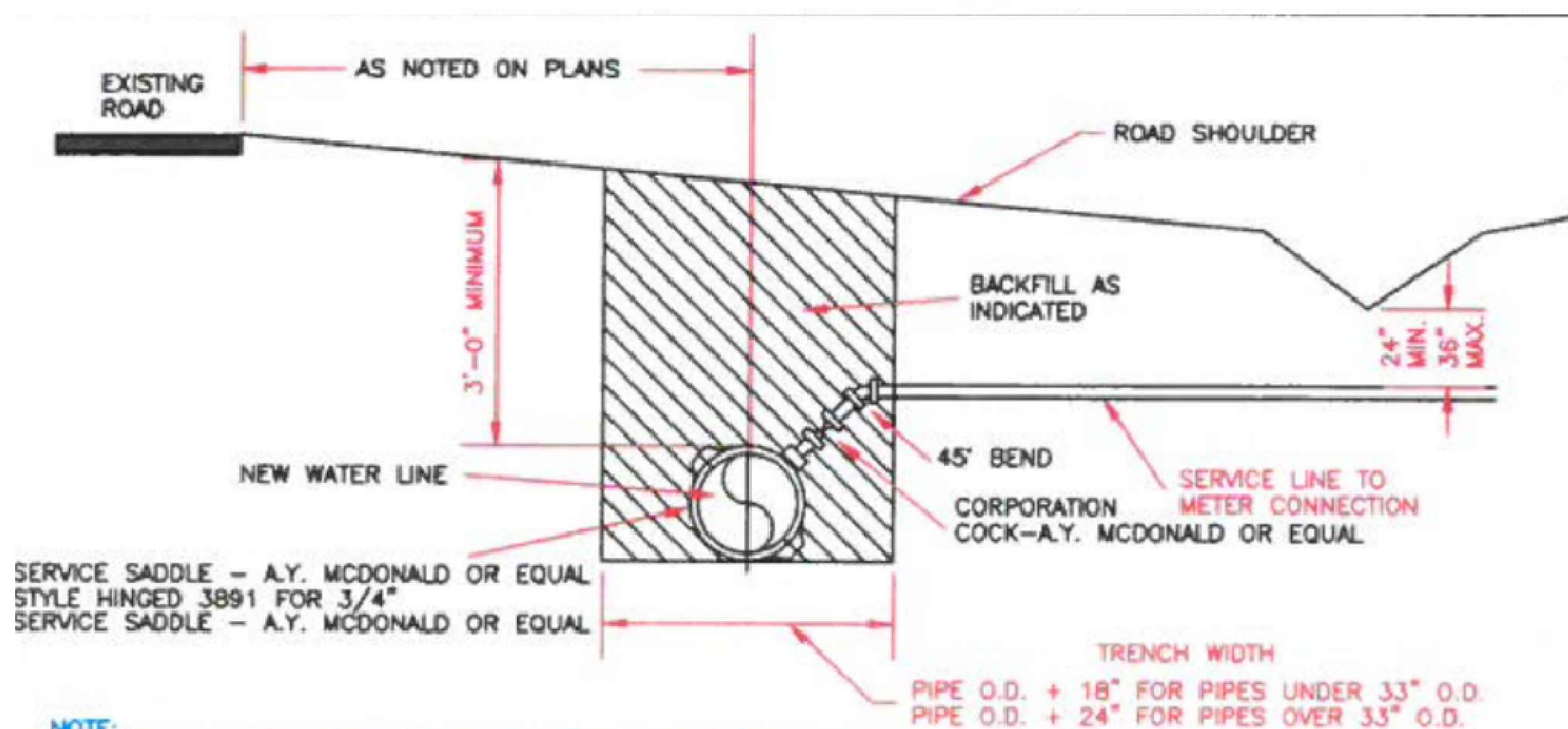
TYPICAL DOMESTIC WATER SERVICE INSTALLATION DETAIL (W 12)
NO SCALE



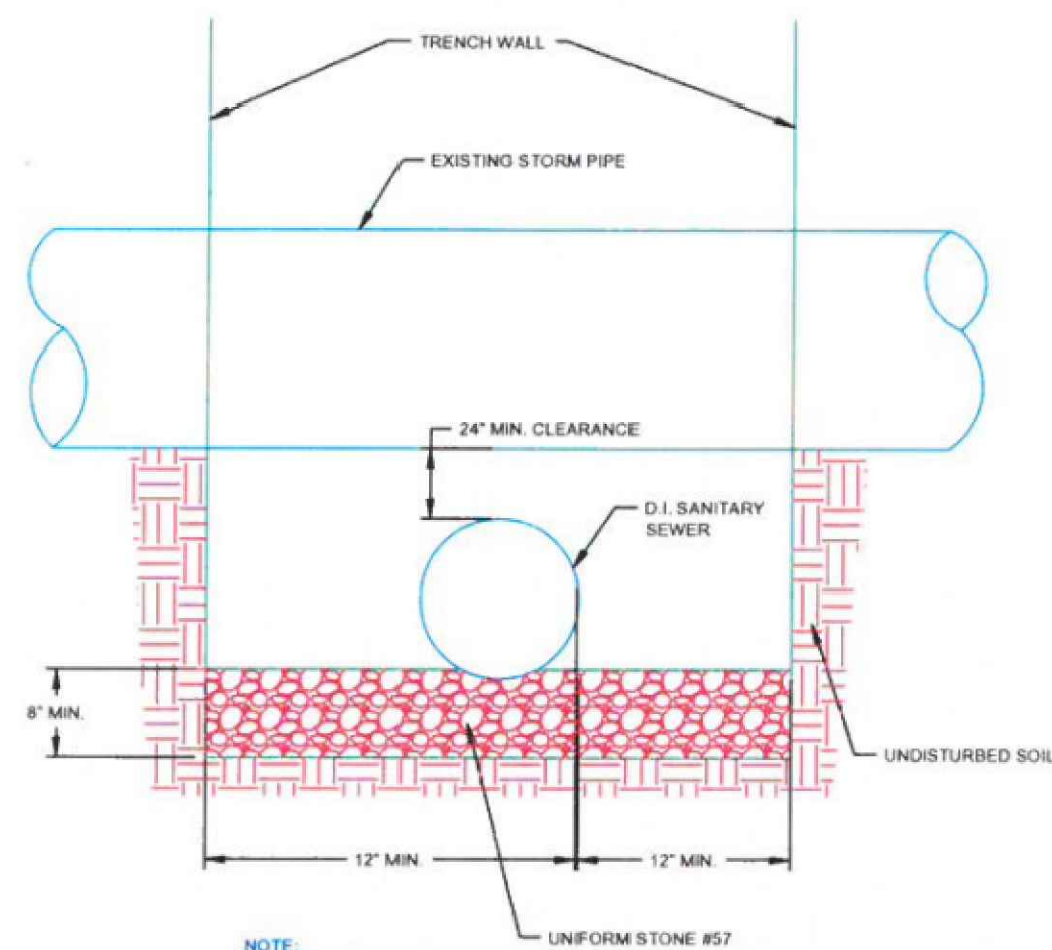
TYPICAL SEWER SERVICE CONNECTION DETAIL (S 29)
NO SCALE



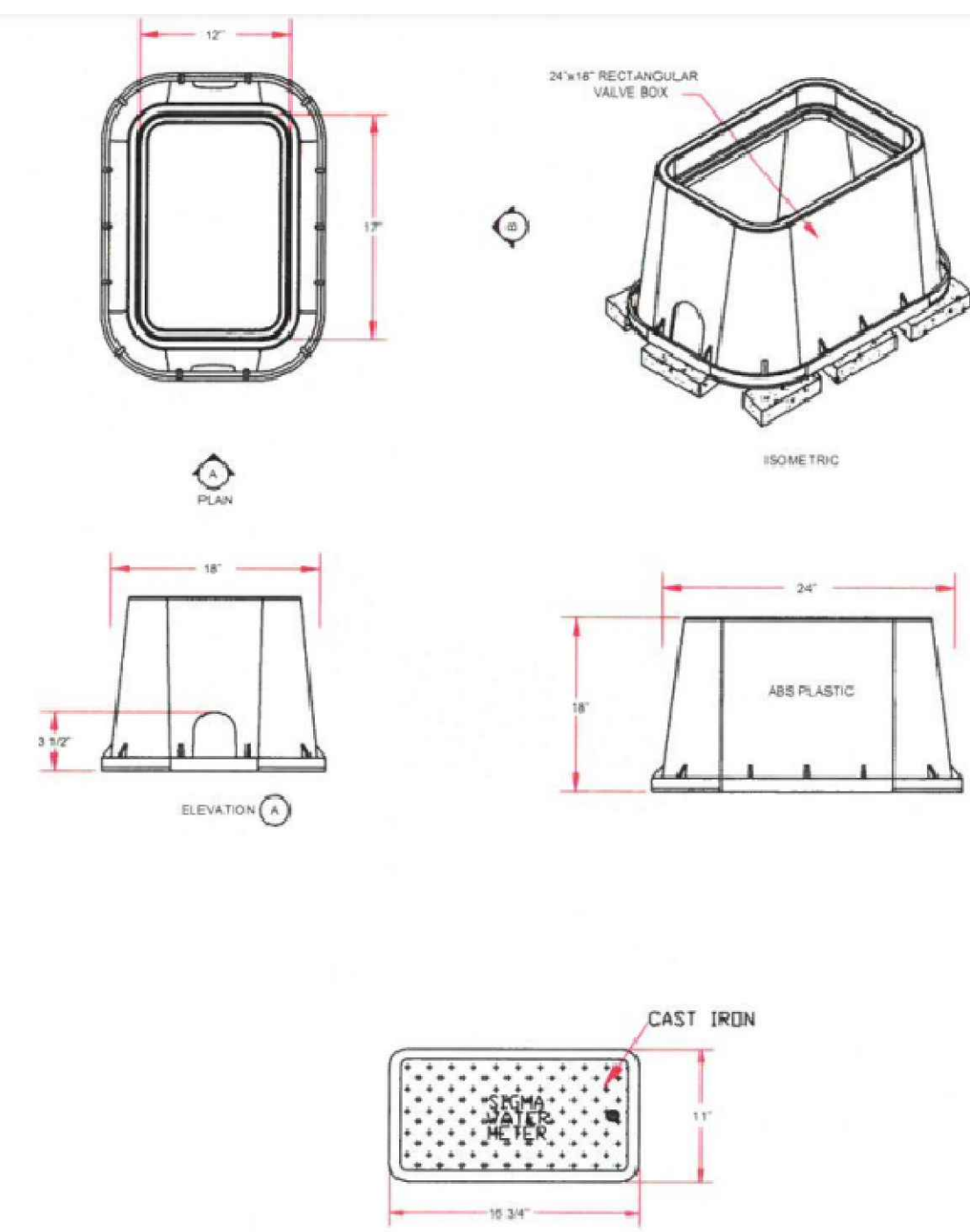
TYPICAL TRACER WIRE INSTALLATION DETAIL (W 3)
NO SCALE



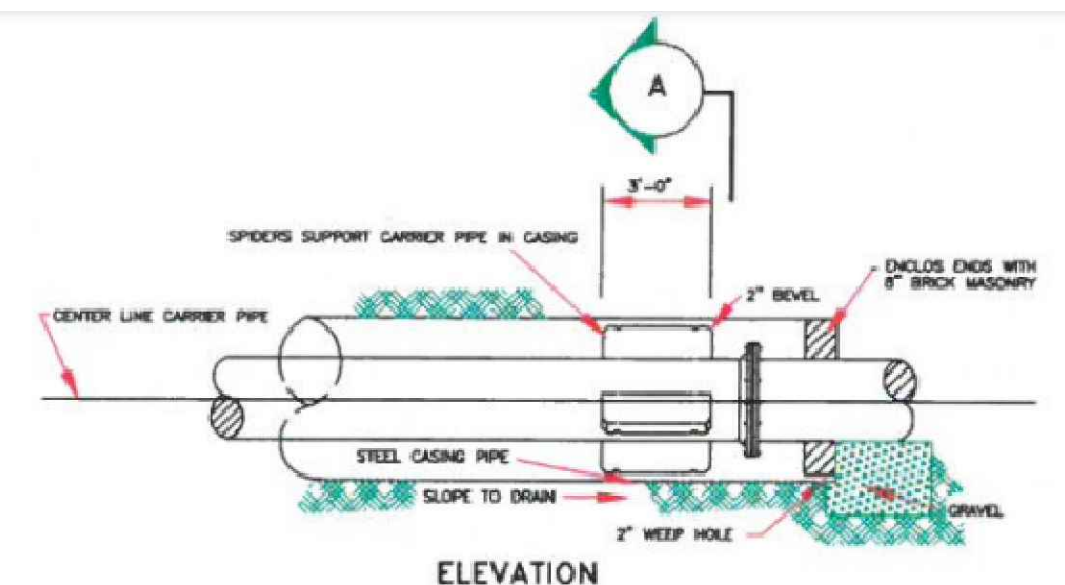
TYPICAL WATER SERVICE CONNECTION USING TAPPING SADDLE DETAIL (W 13)
NO SCALE



TYPICAL STORM SEWER CROSSING FOR SANITARY SEWER DETAIL (S 31)
NO SCALE



TYPICAL METER BOX DETAIL FOR 3/4" SERVICE (W 15)
NO SCALE



TYPICAL BORING & JACKING DETAIL (W 8)
NO SCALE

LAYING CONDITIONS	DESCRIPTION	PROJECT USE
TYPE 1	FLAT BOTTOM UNDISTURBED EARTH TRENCH, LOOSE BACKFILL	NOT USED.
TYPE 2	FLAT BOTTOMED UNDISTURBED EARTH TRENCH, BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE.	NOT USED.
TYPE 3	PIPE BEDDED IN 4" MINIMUM JOE EXCAVATED MATERIAL, BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE.	ALL DUCTILE IRON GRAVITY SEWER LINE.
TYPE 4	PIPE BEDDED IN SAND, GRANULAR MATERIAL OR GRADED GRAVEL TO THE DEPTH OF 1/8 PIPE DIAMETER, 4" MIN. JOE EXCAVATED MATERIAL COMPACTED TO 4" ABOVE TOP OF PIPE (APPROX. 95% STANDARD PROCTOR, AASHTO T-99)	ALL DUCTILE IRON GRAVITY SEWER LINE.
TYPE 5	PIPE BEDDED TO ITS CENTERLINE IN COMPACTED GRANULAR MATERIAL 4" MIN. UNDER PIPE, COMPACTED GRANULAR OR SAND MATERIAL TO 4" ABOVE TOP OF PIPE (APPROX. 95% STANDARD PROCTOR, AASHTO T-99)	ALL DUCTILE IRON GRAVITY SEWER LINE.

TYPICAL LAYING CONDITIONS DETAIL (S 33)
NO SCALE

Bowman

Bowman North Carolina Ltd.
4006 BARRETT DR
Suite 104
RALEIGH, NC 27609
Phone: (919) 553-6570
bowman.com
Bowman North Carolina Ltd.

UTILITY DETAILS

DOLLAR GENERAL

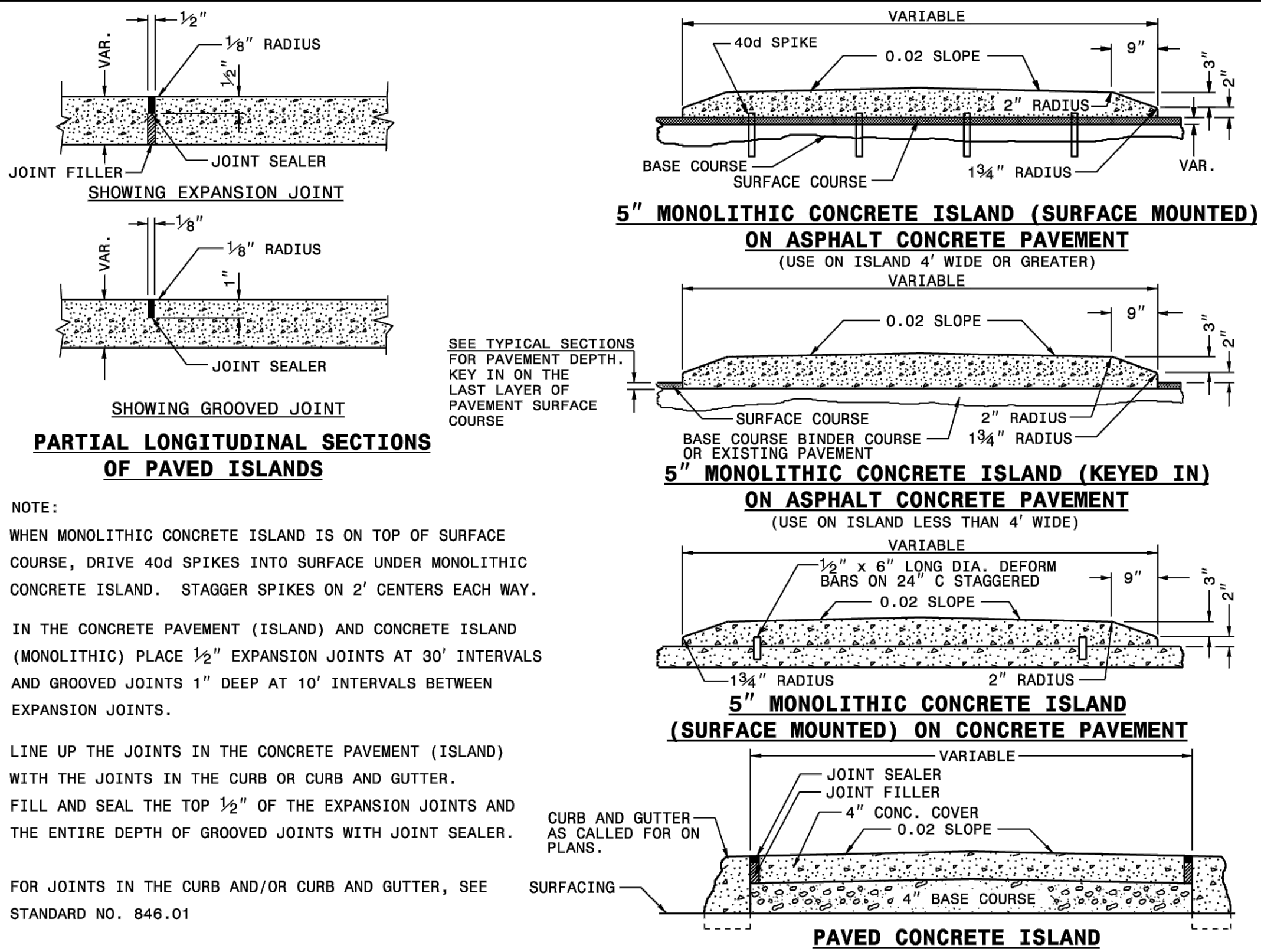
NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA



ISSUED FOR CONSTRUCTION

PLAN STATUS	DATE	DESCRIPTION
2/10/2025	1ST SUBMITTAL	
3/18/2025	REVISIONS PER NOTED COMMENTS	
4/4/2025	2ND SUBMITTAL	
6/3/2025	REVISIONS PER NOTED COMMENTS	
6/5/2025	REVISIONS PER NOTED COMMENTS	
DATE	DESCRIPTION	
ML DESIGN	KXO DRAWN	ML CHKD
SCALE	H:	V:
JOB No.	220154-01-001	
DATE	FEBRUARY 10, 2025	
FILE No.		

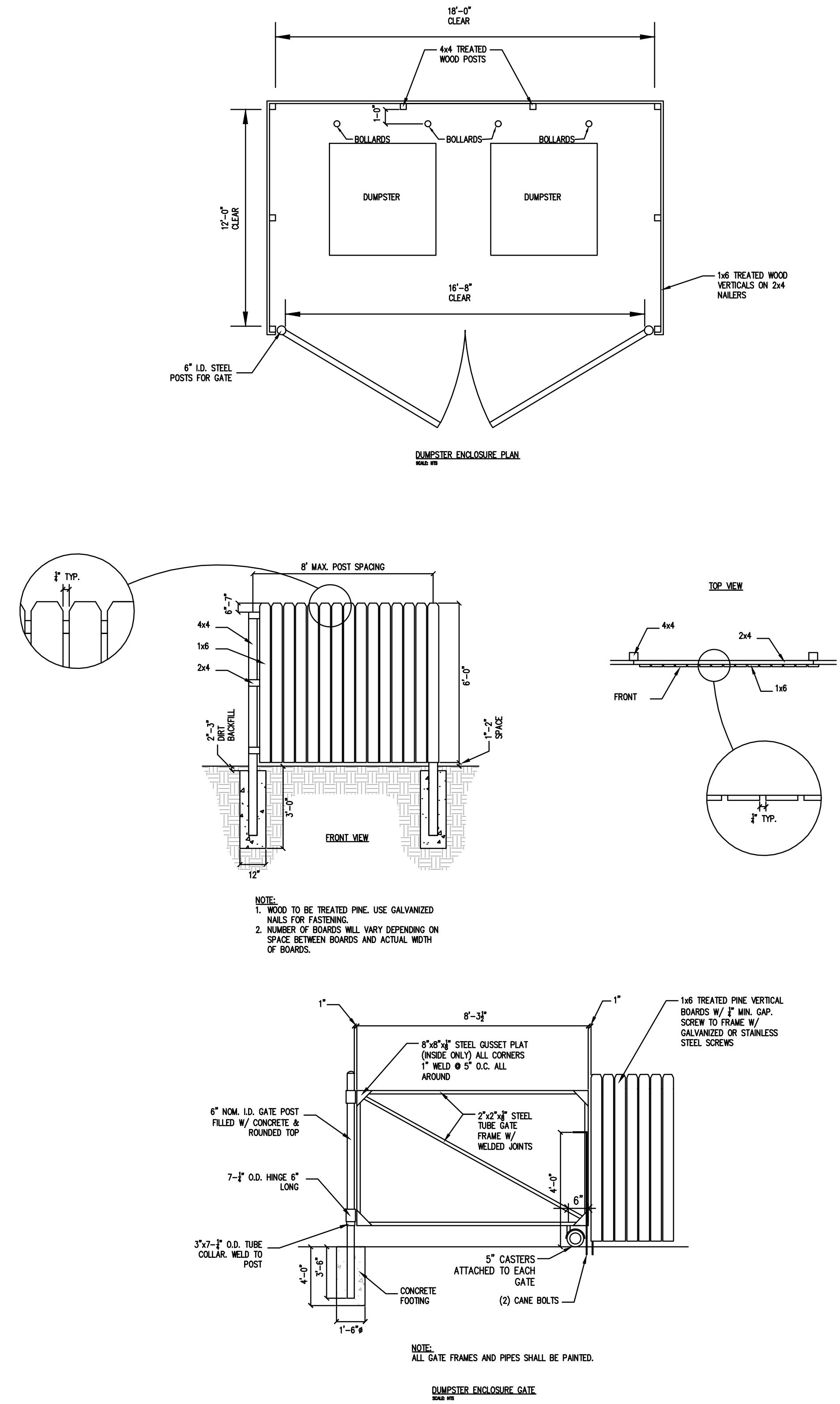
SHEET C5.1



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE ISLANDS

SHEET 1 OF 1
852.01



1 DUMPSTER SCREEN DETAIL
NOT TO SCALE

Bowman

Bowman North Carolina Ltd.
4006 BARRETT DR
Suite 104
RALEIGH, NC 27609
Phone: (919)553-6570
bowman.com
Bowman North Carolina Ltd.

CONSTRUCTION DETAILS

DOLLAR GENERAL

NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA

ISSUED FOR CONSTRUCTION

PLAN STATUS

2/10/2025	1ST SUBMITTAL
3/18/2025	REVISIONS PER NOTED COMMENTS
4/4/2025	2ND SUBMITTAL
6/3/2025	REVISIONS PER NOTED COMMENTS
6/5/2025	REVISIONS PER NOTED COMMENTS

DATE	DESCRIPTION	
ML	KXO	ML
DESIGN	DRAWN	CHKD
SCALE	H:	V:
JOB No.	220154-01-001	
DATE	FEBRUARY 10, 2025	
FILE No.		
SHEET	C6.3	

	Old manual requirements	New MDC
Internal water storage	Optional	Required unless the in-situ soil infiltration rate is equal to or greater than two inches/hour.
Maximum P-index of media	30	30 for NSW, 50 elsewhere
Sand specification	A homogeneous soil mix of: 85-88% by volume sand (USDA Soil Textural Classification); 8-12% fines (silt and clay); and 3-5% organic matter (such as peat moss)	A homogeneous soil mix engineered media with the approximate volumes of: (a) 85-90% sand (ASTM C33, C330, ASHTO M195, or the equivalent); (b) 5-10% fines silt and clay; and (c) 5-10% organic matter (such as pine bark fines).
Maximum media drawdown rate	6 inches/hour	Not specified; compliance with the media specification will result in an appropriate drawdown rate upon installation.
Mechanical compaction prohibition	Not provided	Media may not be compacted mechanically.
Minimum infiltration rate that must be maintained	Not provided	1 in/hr
Planting plan for bioretention cells with trees and shrubs	Based on density of plantings	Based on providing a maximum of 50% canopy cover after five years of growth
SCM element:	Potential problems:	How to remediate the problem.
The entire bioretention cell	Trash/debris is present.	Remove the trash/debris.
The perimeter of the bioretention cell	Areas of bare soil and/or eroded gullies have formed.	Regrade the soil if necessary to remove the gully, plant ground cover and/or reseed until it is established. Provide time and one-time fertilizer application.
	The inlet pipe is clogged (if applicable)	The inlet pipe and its disposal of sediment in a location where it will not cause impacts to streams or the SCM.
The inlet	The inlet pipe is cracked or otherwise damaged (if applicable)	Replace or repair the pipe.
	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 erosion problems.
	Stone veneer is clogged or covered in sediment (if applicable).	Remove sediment and clogged stone and replace with clean stone.
	Flow is bypassing pretreatment areas and gullies have formed.	Regrade if necessary to route all flow to the pretreatment area. Restabilize the area after grading.
The pretreatment system	Sediment has accumulated to a depth greater than three inches.	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.
	Erosion has occurred.	Provide additional erosion protection such as reinforced turf matting or riprap if needed to prevent future erosion problems.
	Weeds are present.	Remove the weeds, preferably by hand. If pesticide is used, wipe it on the plants rather than spraying.
	Best professional practices show that pruning is needed to maintain optimal plant health.	Prune according to best professional practices. Maintain lines of sight between 2'-2'.
	Plants are dead, diseased or dying.	Determine the source of the problem: soils, hydrology, diseases, etc. Remedy the problem and replace plants. Provide a one-time fertilizer application to establish the ground cover if a soil test indicates it is necessary. If soil was used, check to see that it was not grown on clay or impermeable soils. Replace soil if necessary.
	Weeds are present.	Remove the weeds, preferably by hand. If pesticide is used, wipe it on the plants rather than spraying.
	Tree stakes/livestakes are present six months after planting.	Remove tree stakes/livestakes which can kill the tree (if not removed).
Bioretention cell mulch and media	Mulch is breaking down or has floated away.	Spot mulch if there are only non-random void areas. Replace whole mulch layer if necessary.
		Remove the remaining mulch and replace with triple shredded hard wood mulch at a maximum depth of four inches.
	Soils and/or mulch are clogged with sediment.	Determine the extent of the clogging - remove and replace either the top layers or the entire media as needed. Dispose of the spoil in an appropriate off-site location. Use triple shredded hard wood mulch at a maximum depth of four inches. Search for the source of the sediment and remedy the problem if possible.
	An annual soil test shows that pH has dropped or heavy metals have accumulated in the soil media.	Dolomitic lime shall be applied as recommended per the soil test and toxic soils shall be removed, disposed of properly and replaced with new planting media.
The underdrain, filter fabric element, and outlet system	Clogging has occurred.	Wash out the underdrain system.
	Clogging has occurred.	Clean out the drop inlet. Dispose of the sediment off-site.
	The drop inlet is damaged	Repair or replace the drop inlet.
	Erosion or other signs of damage have occurred at the outlet.	Repair the damage and improve the flow dispersion structure.
The receiving water	Discharges from the bioretention cell are causing erosion or sedimentation in the receiving water.	Contact the local NCEOD Regional Office.

GRASS NOTE:
GRASS SHALL BE EITHER HYBRID BERMUDA GRASS OR CENTIPEDE.

BIO-RETENTION SOIL MIXTURE:

Bio-retention Soil Mixture (BSM). shall be placed and graded using low ground-contact pressure equipment or by excavators and/or backhoes operating on the ground adjacent to the bio-retention facility. No heavy equipment shall be used within the perimeter of the bio-retention facility before, during, or after the placement of the BSM. The BSM shall be placed in horizontal layers not to exceed 12 inches for the entire area of the bio-retention facility. The BSM shall be compacted by saturating the entire area of the bio-retention facility after each lift of BSM is placed until water flows from the under-drain. Water for saturation shall be applied by spraying or sprinkling. An appropriate sediment control device shall be used to treat any sediment–laden water discharged from the under-drain. If the BSM becomes contaminated during the construction of the facility, the contaminated material shall be removed and replaced with uncontaminated material at no additional cost to the Administration. Final grading of the BSM shall be performed after a 24-hour settling period. Final elevations shall be within 2 inches of elevations shown on the Contract Plans.

The Bio-retention Soil Mixture (BSM) shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the bio-retention area that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations.

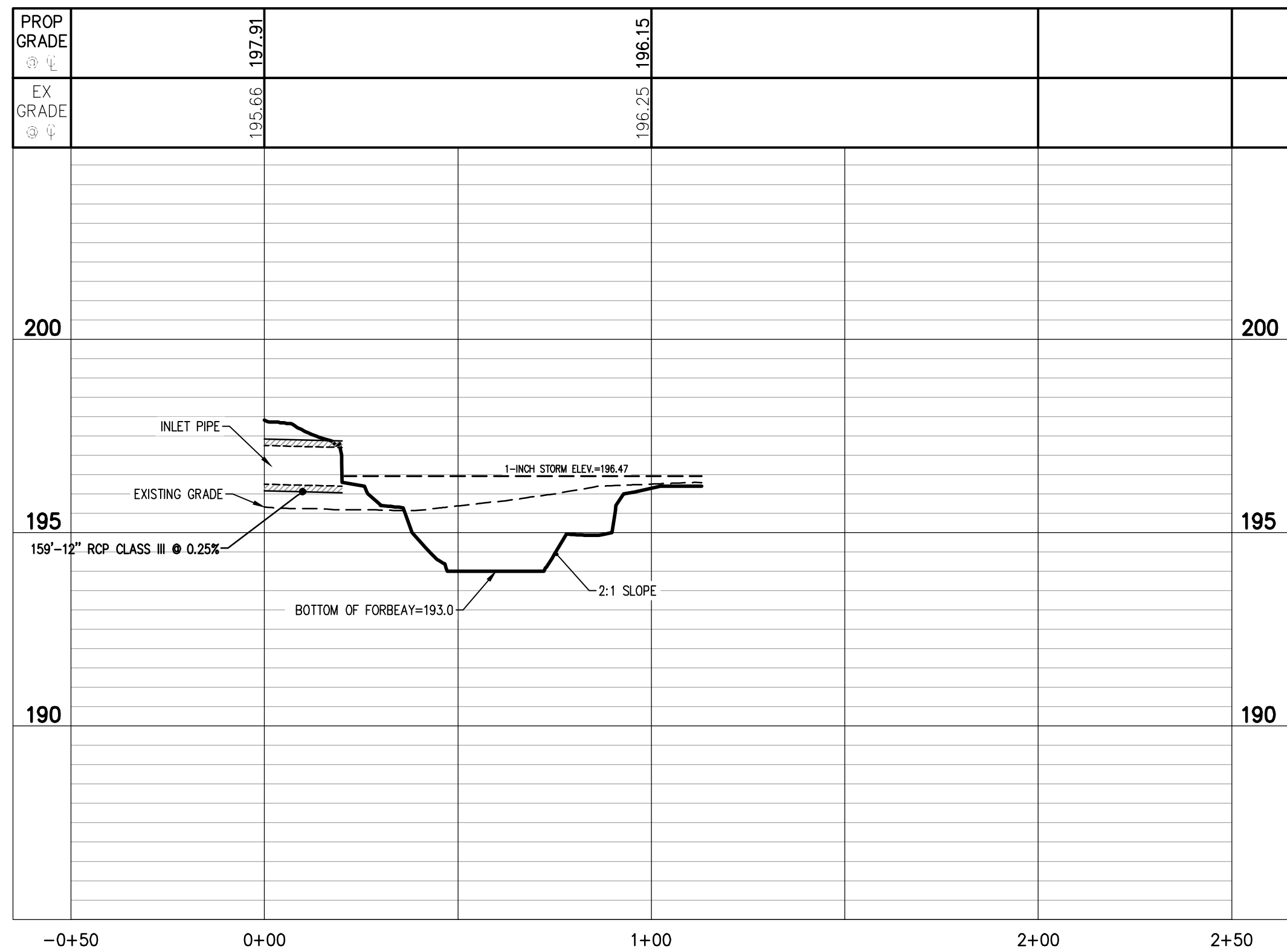
Prior to placing the under-drain and the BSM, the bottom of the excavation shall be roto-tilled to a minimum depth of 6 inches to alleviate any compaction of the facility bottom. Any substitute method for roto-tilling must be approved by the Engineer prior to use. Any ponded water shall be removed from the bottom of the facility and the soil shall be friable before roto-tilling.

Once the BSM has been placed the entire bio-retention area shall be sodded with grass that has been grown in sandy soils or that has the roots washed clean of any clay or other materials that could clog the function of the bio-retention system.

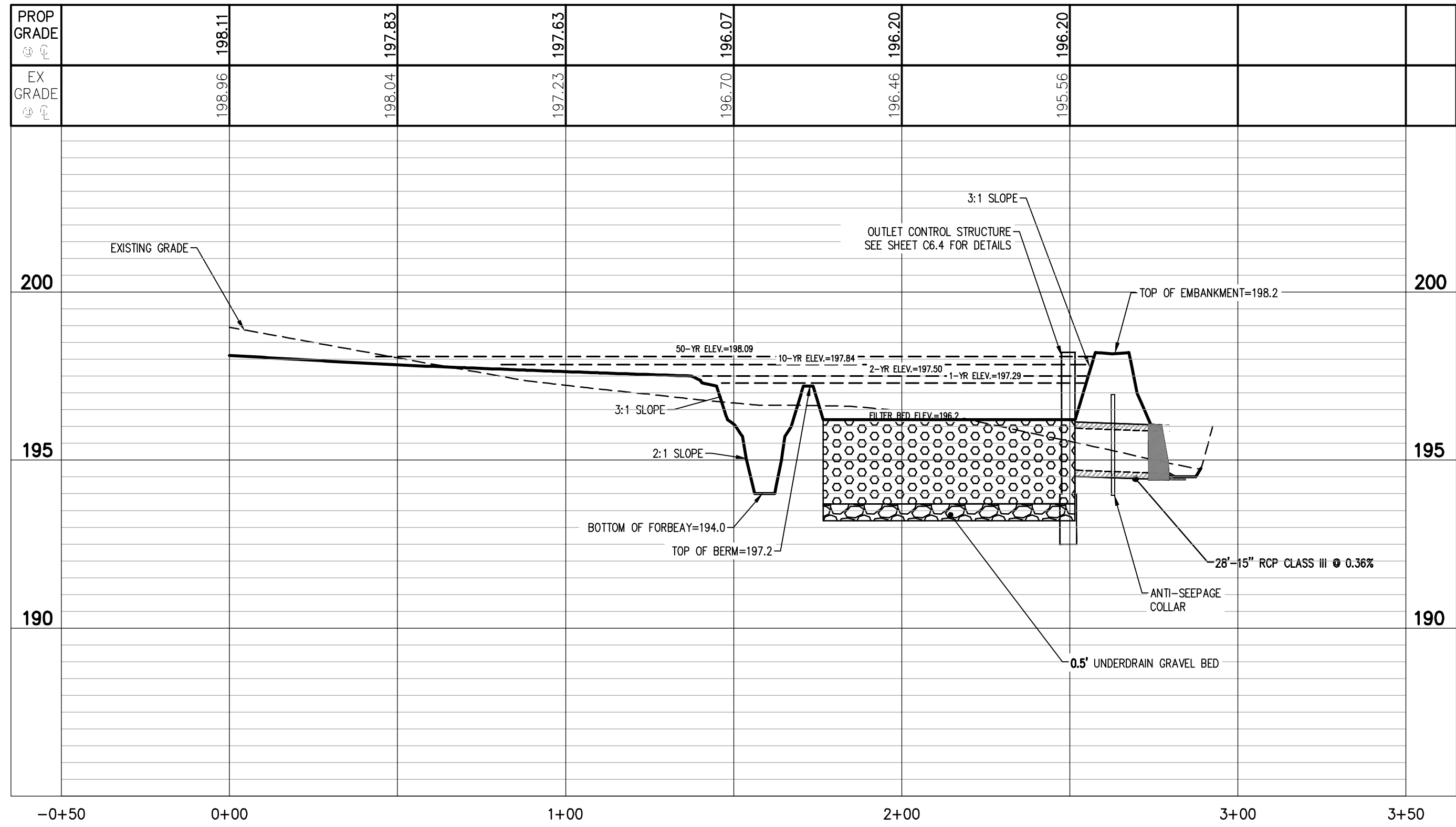
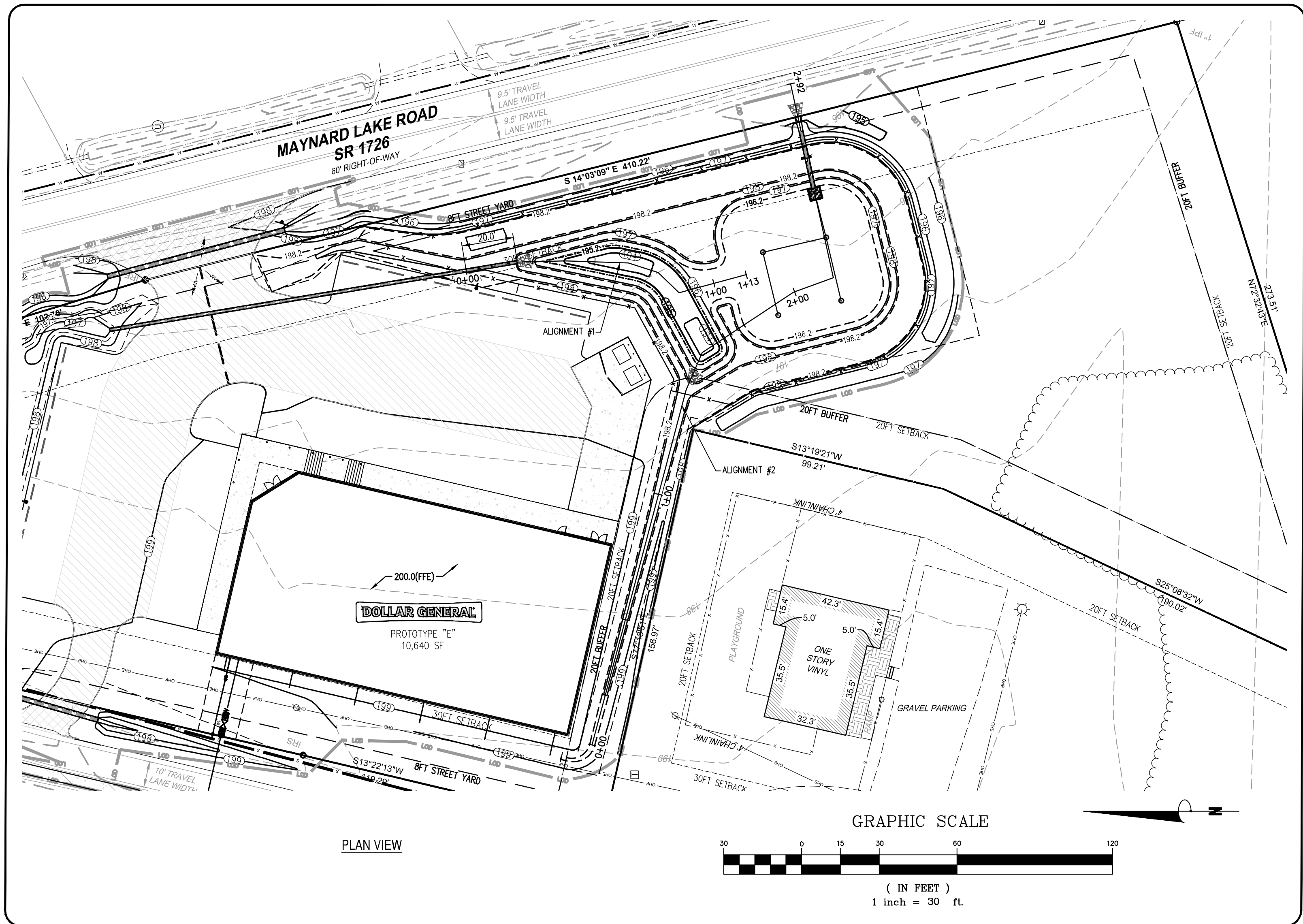
OPERATION AND MAINTENANCE

North Carolina storm water rules require annual inspections by the regulating agency of bio-retention areas as a minimum. More frequent inspections by the land owner or system operator are strongly encouraged to ensure the proper operation of bio-retention areas.

- A. Rainfall Event
 - 1. Inspect the basin after every runoff-producing rainfall event.
- B. Monthly Inspection
 - 1. Inspect the basin monthly
 - 2. Check the bio-retention area side slopes; remove trash and repair eroded areas before the next rainfall event.
 - 3. Check the vegetative and rock filters for sediment accumulation, erosion and proper operation of the flow spreader mechanism and repair as necessary.
 - 4. Visually inspect and repair soil erosion on a monthly basis.
 - 5. Remove any void area whenever necessary. Replacement of mulch layers may be necessary every two or three years. mulch should be replaced in the spring. When the mulch layer is replaced, the previous layer should be removed first.
 - 6. Remove and replace all dead and diseased vegetation considered beyond treatment. This should be done twice a year, once in the spring and once in the fall. Treat all diseased trees and shrubs that are not beyond treatment as needed.
- C. Quarterly Inspection
 - 1. Inspect the collection system (i.e. catch basin, pipes and grass swales) for proper functioning. Clear accumulated trash from basin grates and basin bottoms. (See piping for obstructions).
 - 2. Check pond inlet pipes for undercutting, replace if-rs and repair broken pipes.
 - 3. Reseed grassed swales, including the vegetated filter if applicable, twice a year as necessary. Repair eroded areas immediately.
- D. Six Month Inspection
 - 1. Remove accumulated sediment from the bottom of the outlet structure or other areas where accumulated sediment is noted.
 - 2. Inspect the embankment taking note of any wet areas where water may be seeping through the soil.
- E. General Inspection
 - 1. Maximum grass height is to be 6 in.
 - 2. No woody vegetation shall be allowed to grow in the bio-retention area.
 - 3. Debris shall be removed from blocking the inlet and outlet structures and from areas of potential clogging.
 - 4. Periodic removal of dead vegetation shall be accomplished.
 - 5. All components of the bio-retention system must be kept in good working order.



Alignment #1 PROFILE VIEW
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=3'

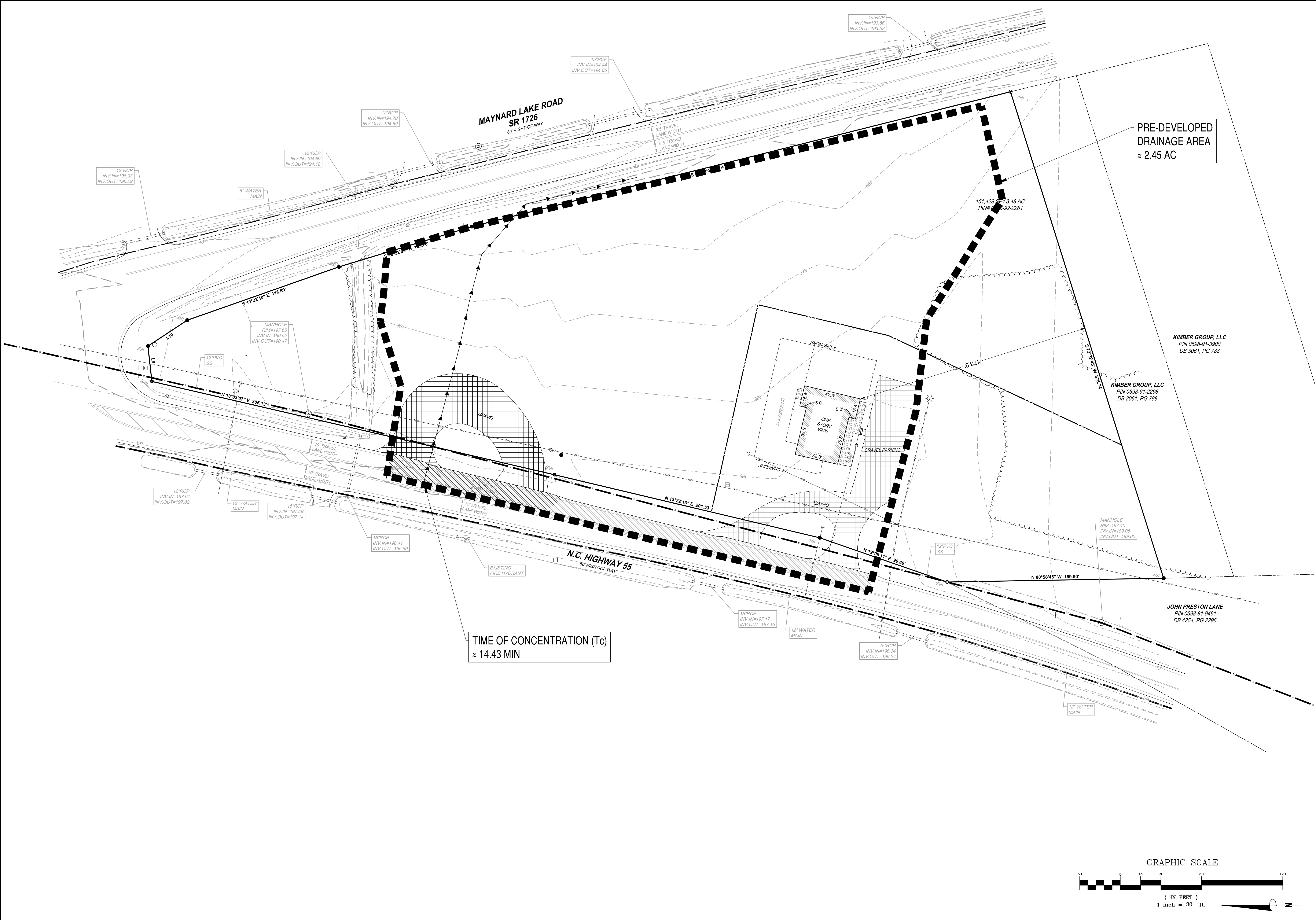


Alignment #2 PROFILE VIEW
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=3'



ISSUED FOR
CONSTRUCTION

PLAN STATUS		
2/10/2025	1ST SUBMITTAL	
3/18/2025	REVISIONS PER INDCOT COMMENTS	
4/4/2025	2ND SUBMITTAL	
6/3/2025	REVISIONS PER INDCOT COMMENTS	
6/5/2025	REVISIONS PER INDCOT COMMENTS	
DATE	DESCRIPTION	
ML DESIGN	KXO DRAWN	ML CHKD
SCALE	H: 1" = 30' V: 1" = 3'	
JOB No.	220154-01-001	
DATE	FEBRUARY 10, 2025	
FILE No.		
SHEET	C6.5	



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Bowman North Carolina Ltd.
4006 BARRETT DR
Suite 104
RALEIGH, NC 27609
Phone: (919)553-6570
bowman.com
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PRE-DEVELOPED DRAINAGE AREA

DOLLAR GENERAL

NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA

ISSUED FOR CONSTRUCTION

PLAN STATUS

2/10/2025	1ST SUBMITTAL
3/18/2025	REVISIONS PER NOTED COMMENTS
4/4/2025	2ND SUBMITTAL
6/3/2025	REVISIONS PER NOTED COMMENTS
6/5/2025	REVISIONS PER NOTED COMMENTS

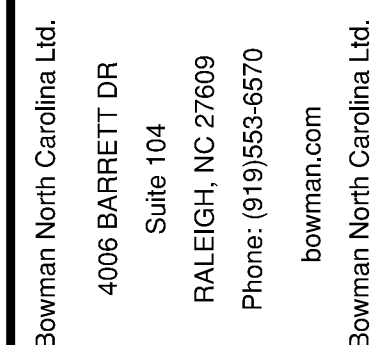
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SCALE	ML CHKD
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	V: 1"=30'

JOB No. 220154-01-001

DATE FEBRUARY 10, 2025

FILE No.

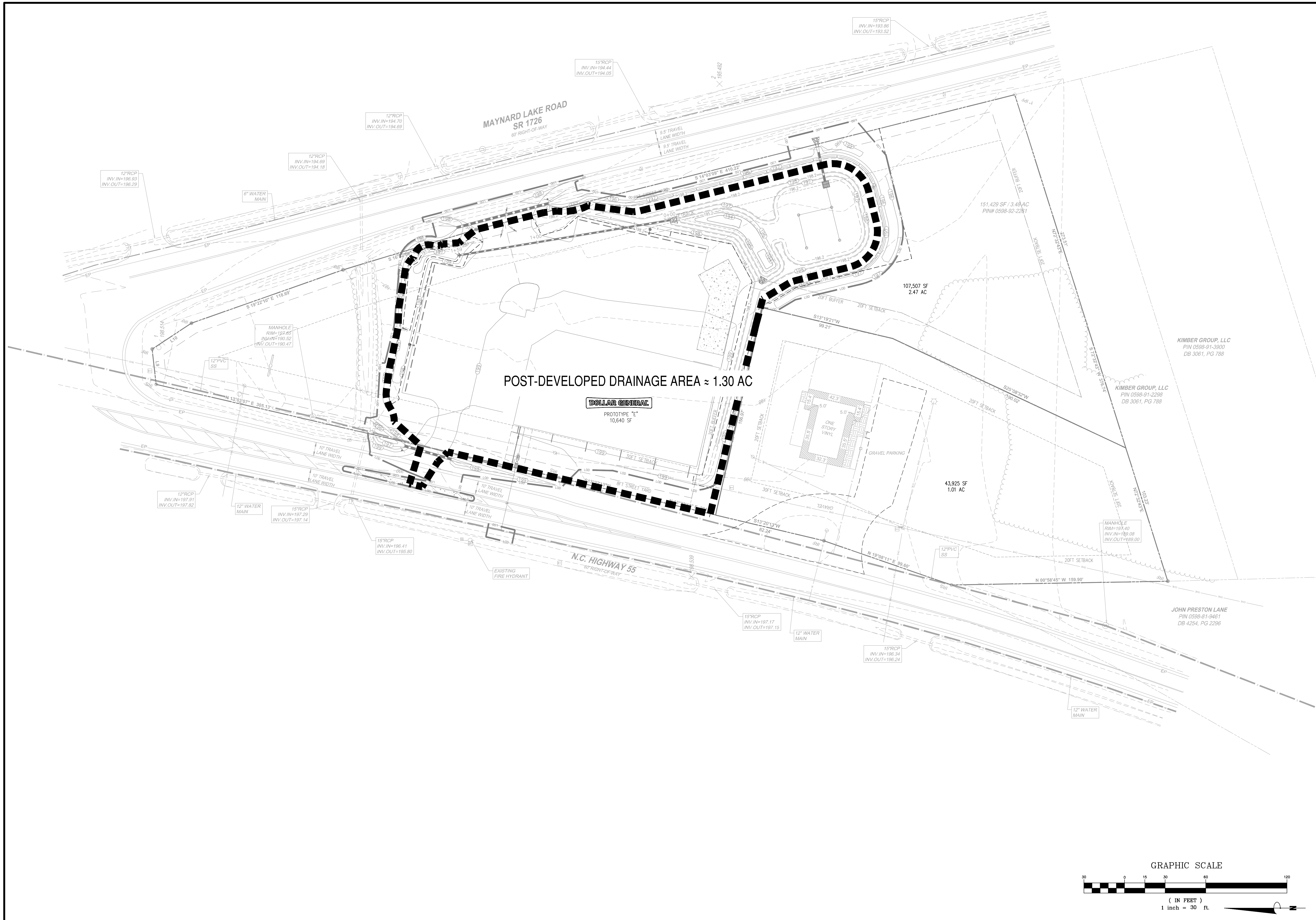
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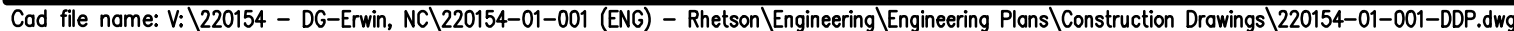
**DOLLAR GENERAL®**

NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA



PLAN STATUS		
2/10/2025	1ST SUBMITTAL	
3/18/2025	REVISIONS PER NCDOT COMMENT	
4/4/2025	2ND SUBMITTAL	
6/3/2025	REVISIONS PER NCDOT COMMENT	
6/5/2025	REVISIONS PER NCDOT COMMENT	
DATE	DESCRIPTION	
ML DESIGN	KXO DRAWN	ML CHKD
SCALE 1" = 30' V:		
JOB No.	220154-01-001	
DATE	FEBRUARY 10, 2025	
FILE No.		
DDP		
SHIFT		





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4006 BARRETT DR
Suite 104
RALEIGH, NC 27609
Phone: (919)553-6570
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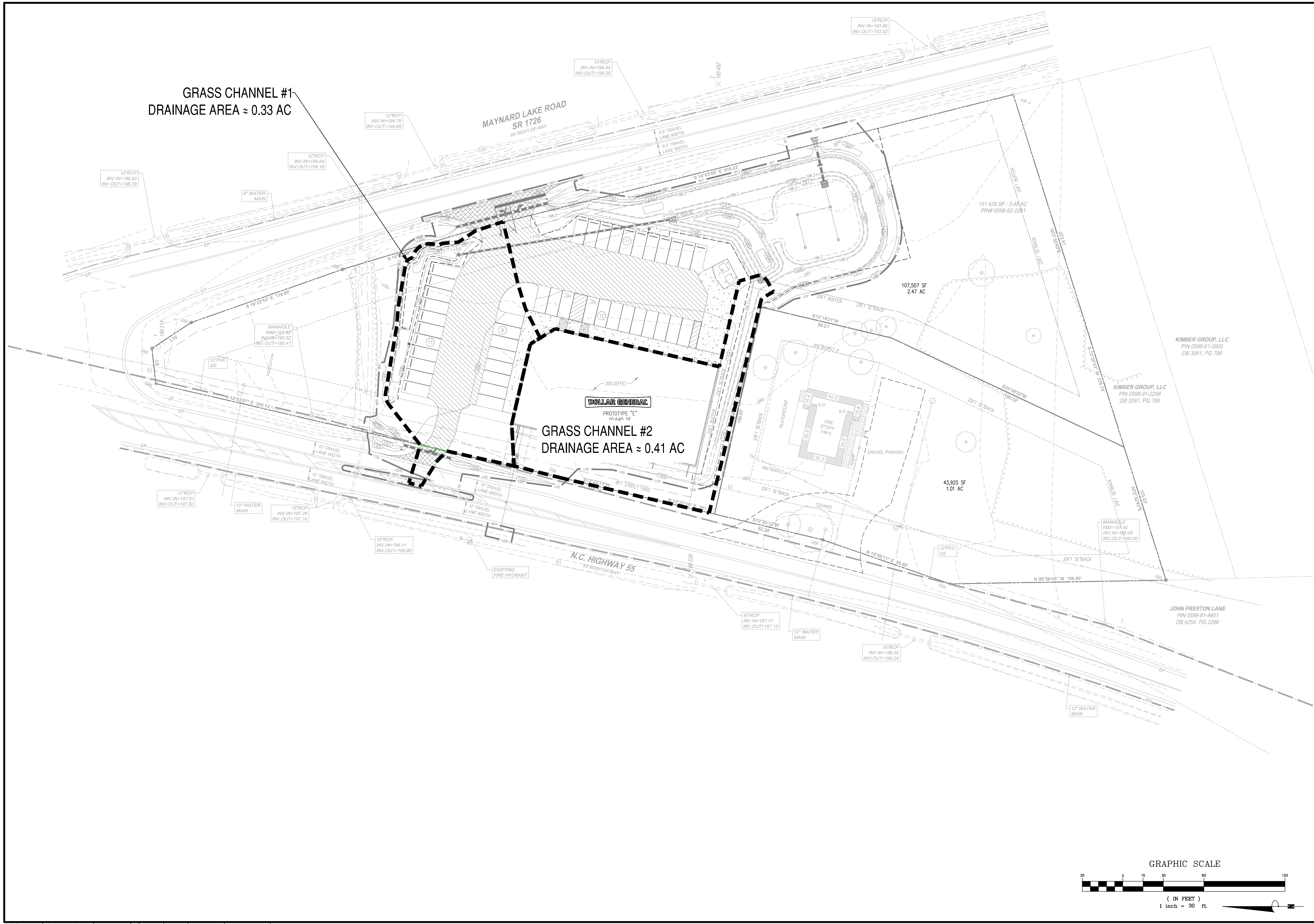
DOLLAR GENERAL®

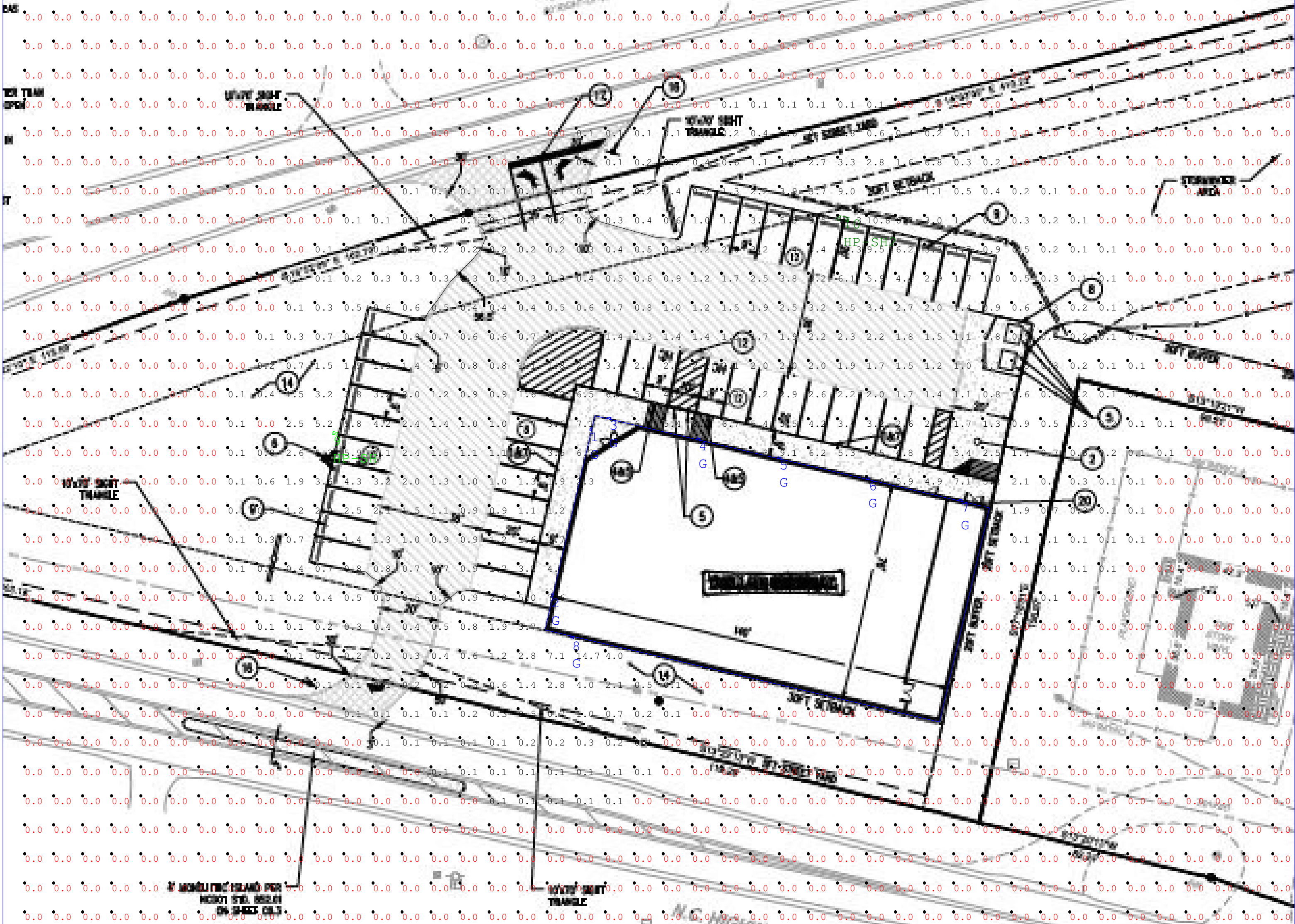
NC 55 E ERWIN
HARNETT COUNTY, NORTH CAROLINA



ISSUED FOR
CONSTRUCTION

PLAN STATUS		
2/10/2025	1ST SUBMITTAL	
3/18/2025	REVISIONS PER NOCOT COMMENTS	
4/4/2025	2ND SUBMITTAL	
6/3/2025	REVISIONS PER NOCOT COMMENTS	
6/5/2025	REVISIONS PER NOCOT COMMENTS	
DATE	DESCRIPTION	
ML DESIGN	KXO DRAWN	ML CHKD
SCALE H: 1" = 30' V:		
JOB No. 220154-01-001		
DATE	FEBRUARY 10, 2025	
FILE No.		
DDP-INLETS		





Luminaire Location Summary		
LumNo	Label	Z
1	G	15.5
2	G	15.5
3	G	15.5
4	G	15.5
5	G	15.5
6	G	15.5
7	G	15.5
8	G	11
9	HP-SH	27
10	HP-SH2	27

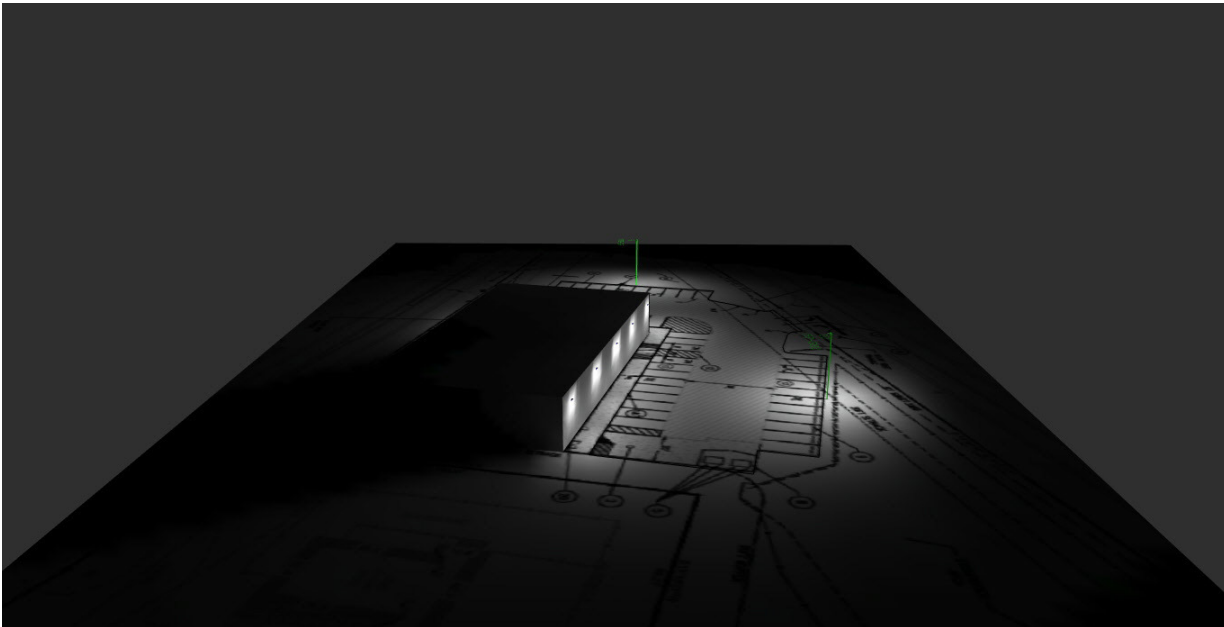
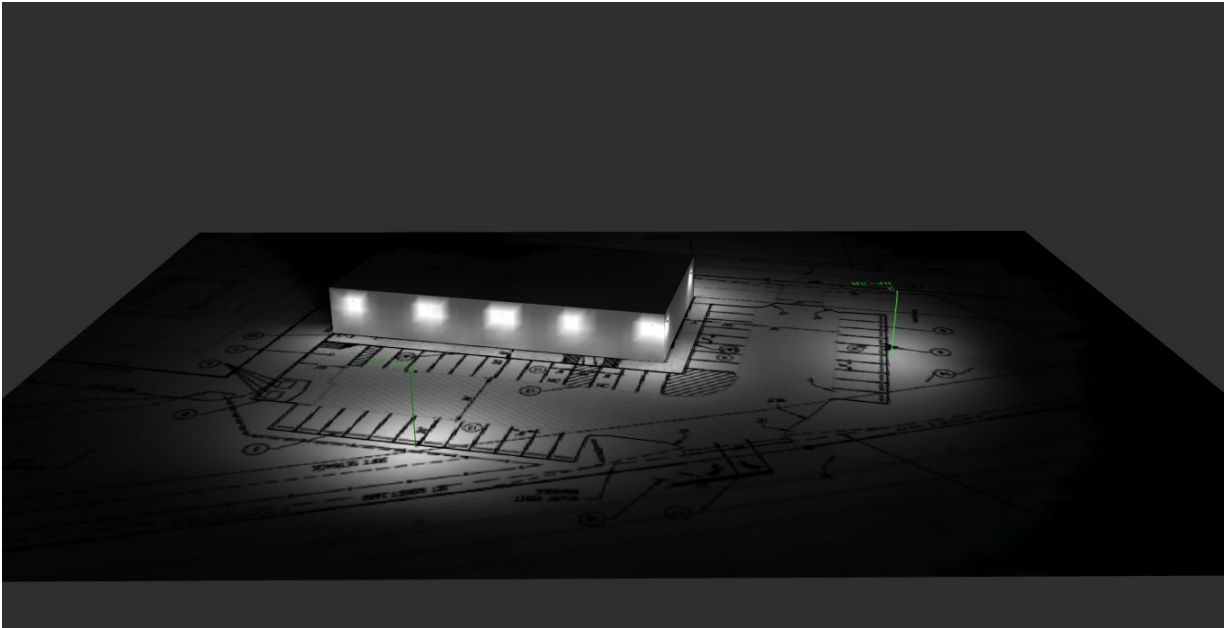
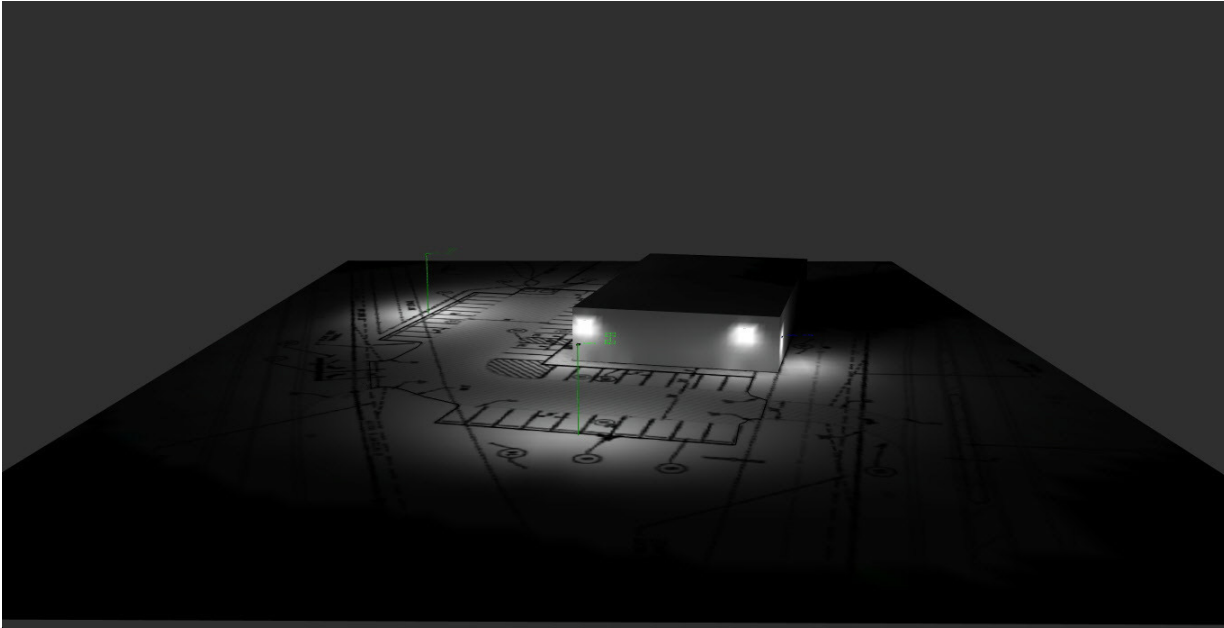
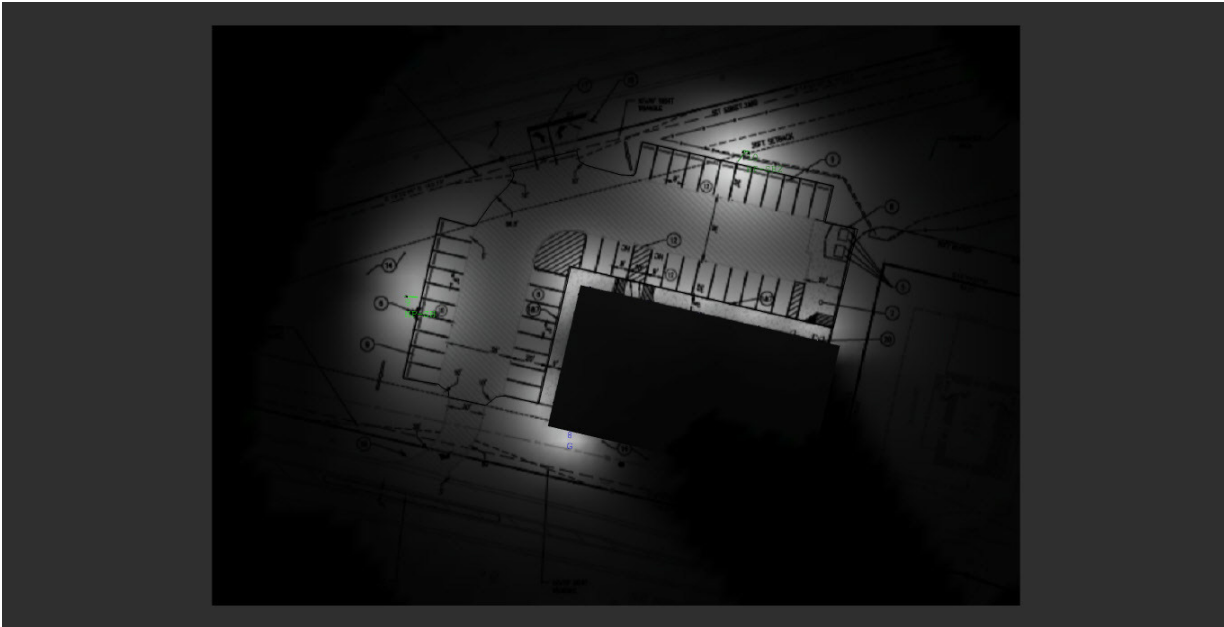
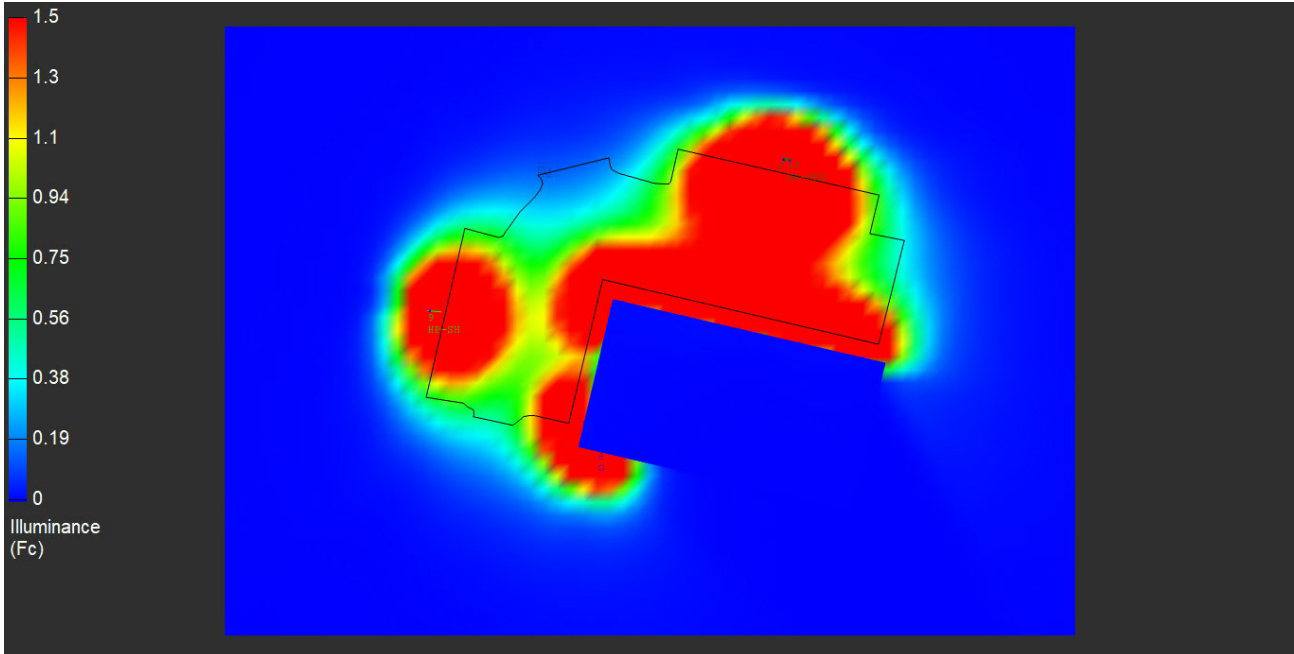
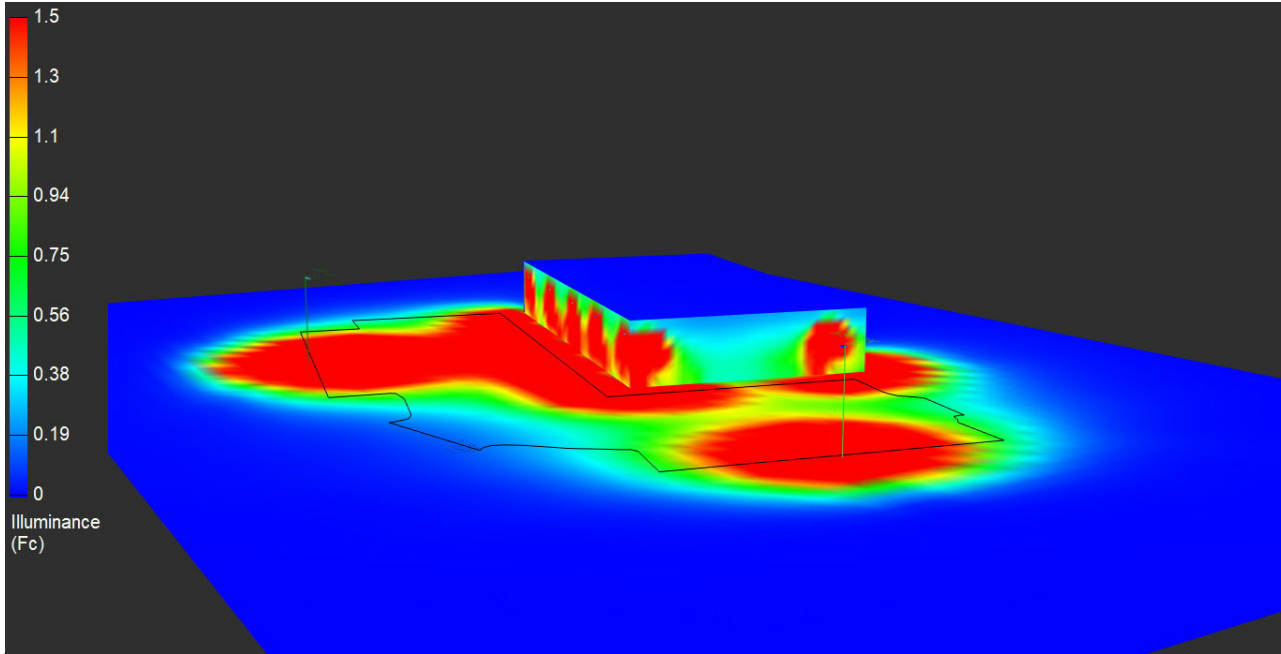
Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	1	HP-SH2	Twin	NLES AL1212 Back Shield, 2-H	0.950	16181	147.489	294.978
	8	G	Single	NLES WP4054	0.950	5696	42.2406	337.925
	1	HP-SH	Single	NLES AL1212 Back Shield	0.950	16181	147.489	147.489

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Site	Illuminance	Fc	0.59	14.7	0.0	N.A.	N.A.
Parking Lot	Illuminance	Fc	2.12	10.3	0.2	10.60	51.50

Notes:

Plan Notes:
Calculations at Ground Level (10' x 10' Grid Spacing). Refer to luminaire location summary for mounting heights of each fixture. Pole mounted fixtures include a 2ft concrete base. Mounting heights indicated on luminaire location summary is a total A.F.G. height.

General Notes:
Due to changing lighting ordinances it is the contractors responsibility to submit the site photometrics & luminaire specs to the local inspector before ordering to ensure this plan complies with local lighting ordinances. This lighting design is based on information supplied by others. Changes in electrical supply, area geometry & objects within the lighted area may produce illumination values different from the predicted results shown on this layout. This layout is based on .IES files that were lab tested or computer generated, actual results may vary.



#	Date	Comments
Revisions		

Drawn By: Brent M. Finley, LC	Checked By:	Date:3/23/2025	Scale:
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Dollar General -
Erwin NC 25444