GENERAL NOTES (APPLY TO ALL CIVIL WORK)

CONSTRUCTION.

EROSION CONTROL NOTES:

FULLY STABILIZED.

AND WIND CONDITIONS.

GRADING AND DRAINAGE NOTES

AREAS ARE FULLY STABILIZED.

SHALL BE WITHIN THE PERIMETER SILT FENCE.

DIRECTLY DOWNSTREAM WHICH COULD BE IMPACTED

FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE BEGINNING OF DEMOLITION AND/OR

UTILITIES PRIOR TO THE BEGINNING OF DEMOLITION AND/OR CONSTRUCTION VIA THE USE OF TEST PITS OR

CONTRACTOR SHALL PHYSICALLY VERIFY PLAN LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND

3. PROTECT ALL EXISTING UTILITIES AND CONSTRUCTION TO REMAIN DURING ALL CONSTRUCTION ACTIVITIES.

5. BEFORE YOU DIG, STOP. CALL THE NC ONE-CALL CENTER AT 811 AND COORDINATE LOCATION OF PUBLIC

VEHICULAR TRAFFIC, OR PARKING OR STORAGE OF HEAVY EQUIPMENT ARE ALLOWED WITHIN THE CRITICAL

BEEN INSTALLED. BARRICADES TO REMAIN UNTIL AFTER ALL DEVELOPMENT ACTIVITIES ARE COMPLETED.

OF GRATE OR MANHOLE. ALL LINEAR FOOTAGE OF ALL UTILITY PIPES SHOWN ARE APPROXIMATE. ACTUAL

CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTHS THAT TERMINATE WITH A FLARED END

ROOT ZONE OF PROTECTED TREES. NO WORK SHALL BEGIN UNTIL TREE PROTECTION BARRICADES HAVE

7. STORM DRAINAGE STRUCTURES AND SANITARY SEWER MANHOLE COORDINATES ARE LOCATED AT CENTER

INSTALLED QUANTITIES MAY VARY. PIPE LENGTHS PROVIDED ARE HORIZONTAL MEASUREMENTS FROM

8. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES

ON OR ADJACENT TO THE WORK SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING

OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES,

DRAINAGE GRATES, VALVE BOXES, VAULT LIDS, ETC. AS REQUIRED TO MATCH FINISHED GRADES, AGENTS

INSTALLING ALL OTHER UTILITIES SHALL BE RESPONSIBLE FOR MATCHING FINISH GRADE WITH ANY NEW

9. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER UTILITY INSTALLATIONS NOT COVERED UNDER

AND CONSTRUCTION TO BE PERFORMED. ALL PLANNED AND EXISTING UTILITIES ROUTINGS AND DEPTHS

IO. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NCDOT, NCDEQ, AND LOCAL STANDARDS. WHEN

. RIM ELEVATIONS GIVEN ON THESE PLANS ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES

12. ALL SHORING SHALL BE IN ACCORDANCE WITH OSHA TRENCHING STANDARDS, PART 1926 SUBPART P, AS

13. ALL LANE OR ROAD CLOSURES THAT ARE REQUIRED SHALL FOLLOW THE MANUAL ON UNIFORM TRAFFIC

. THE GRADING CONTRACTOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT AND

CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF

PERMANENT DRAINAGE FACILITIES AND NOT BEFORE ALL AREAS DRAINING TO THESE FACILITIES ARE

CONSTRUCTION DEBRIS FROM FLOWING BEYOND THE DENUDED LIMITS SHOWN ON THE PLANS. CONTRACTOR SHALL COMPLY WITH ALL LOCAL STATE AND FEDERAL FROSION SEDIMENT AND SILTATION ORDINANCES.

SUFFICIENTLY STABILIZED. CONTRACTOR SHALL FINE GRADE AND STABILIZE ALL AREAS WHERE TEMPORARY

EROSION CONTROL MEASURES WERE REMOVED AND REMAIN VIGILANT IN CARE AND MONITORING UNTIL ALL

2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NC EROSION AND SEDIMENT CONTROL PLANNING

3. LOCATE ANY STOCKPILED TOPSOIL OR SUBSOIL WITHIN THE DENUDED LIMITS AND ABOVE THE SEDIMENT

5. INLET PROTECTION IS REQUIRED FOR ALL INLETS LOCATED WITHIN THE WORKING AREA AND ANY INLETS

6. INLET PROTECTION IS REQUIRED FOR ALL PHASES OF THE PROJECT AND UNTIL THE DISTURBED AREA IS

7. THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PREVENT TRACKING OF MUD/SOIL ONTO

CONSTRUCTION ENTRANCES SHALL BE MONITORED DAILY AND REDRESSED PERIODICALLY AS NEEDED.

8. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL CONSTRUCTION ACTIVITY REQUIREMENTS

OUTLINED IN THE CURRENT NCDEQ GENERAL PERMIT NCG 010000. ALL MONITORING, SELF-INSPECTIONS,

STABILIZED PER THE NCDEQ STABILIZATION SCHEDULE. ALL AREAS OF TRAFFIC AND DISTURBED AREAS

THAT HAVE NOT YET BEEN STABILIZED WITH A STAND OF GRASS OR MULCH, MUST BE WATERED DOWN AS

NEEDED DURING DRY PERIODS TO PREVENT AIRBORNE DUST MIGRATION OFF-SITE. STOCK PILES THAT ARE

NOT STABILIZED SHOULD BE COVERED. WATERING EFFORTS PREVENT DUST FOR A SHORT PERIOD OF TIME AND SHOULD BE APPLIED DAILY IF NOT MULTIPLE TIMES A DAY DEPENDING ON DURATION OF DRY PERIOD

CONTRACTOR SHALL TAKE CARE TO MAKE SMOOTH FLOWING TRANSITIONS AT NEW AND EXISTING ASPHALT

3. ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES TO TOP OF PAVEMENT OR TOP OF SOIL

TIES. SLOPE BETWEEN FIXED SPOT ELEVATIONS SHALL BE CONSTANT UNLESS OTHERWISE SPECIFIED.

2. ALL MATERIAL TYPES OF ALL PROPOSED STORM DRAINAGE PIPE SHALL BE PROPERLY BEDDED .

ADJACENT ROADWAYS. ANY MUD/SOIL TRACKED ONTO ROADWAYS SHALL BE CLEANED DAILY.

9. ALL UTILITY AND STORM DRAINAGE EXCAVATIONS ARE TO BE CLOSED AT THE END OF EACH DAY.

IO. AIRBORNE DUST SEDIMENTATION MUST BE CONTROLLED ONSITE. ALL DISTURBED AREAS ARE TO BE

RECORD KEEPING, AND CORRECTIVE ACTIONS MUST BE FOLLOWED AS DIRECTED.

BASINS. FOR SMALL DISTURBED AREAS WITHOUT A SETTLING BASIN, ALL DISTURBANCES AND STOCKPILES

AND DESIGN MANUAL, US DEPARTMENT OF AGRICULTURE, AND ALL LOCAL STANDARDS. WHEN

SPECIFICATIONS ARE IN CONFLICT, THE STRICTER SPECIFICATION SHALL BE HELD.

4. REFER TO SHEET C3.I FOR GRADING AND STORM DRAINAGE INFORMATION.

CONTROL DEVICES FOR STREETS AND HIGHWAYS FOR TRAFFIC CONTROL MEASURES (MUTCD).

ONLY, ACTUAL RIM ELEVATIONS SHALL BE ADJUSTED BY CONTRACTOR TO MATCH FIELD CONDITIONS. THE

TOP 12" OF ALL NEW CONCRETE STRUCTURES SHALL BE BRICK CONSTRUCTION OR OBTAINED WITH PRECAST

GRADE RINGS TO ALLOW FOR ADJUSTMENT AS NECESSARY. STRUCTURES SHALL BE ADJUSTABLE +/- 12"

THESE CIVIL PLANS (ELECTRIC, TELEPHONE, GAS, STEAM, CABLE, ETC.) AND ALLOW FOR THEIR OPERATIONS

SURFACE STRUCTURE OR SURFACE ACCESS SERVING THEIR INSTALLED FACILITIES.

SPECIFICATIONS ARE IN CONFLICT, THE STRICTER SPECIFICATION SHALL BE HELD.

FROM THE RIM ELEVATION PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

6. NO SOIL DISTURBANCE OR COMPACTION, STOCK PILING OF SOIL OR OTHER CONSTRUCTION MATERIALS,

4. ALL EXISTING SURFACES TO REMAIN OR NEW WORK, THAT IS DAMAGED DURING DEMOLITION OR

CONSTRUCTION ACTIVITIES SHALL BE REPAIRED TO MATCH EXISTING ADJACENT SURFACES.

SECTION INCLUDE THE LENGTH OF THE FLARED END SECTION.

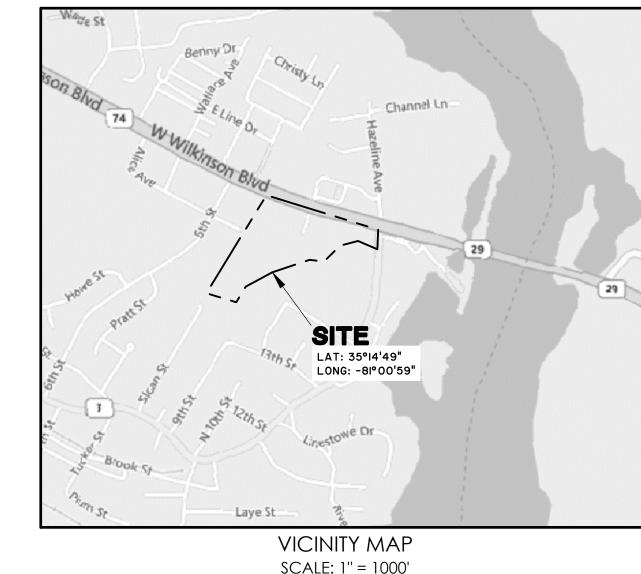
SHALL BE COORDINATED PRIOR TO ANY INSTALLATIONS.

DRAINAGE LEGEND				
DESCRIPTION	EXISTING	PROPOSED		
PIPE	_ · _ · _ · _ · _ · _ · _ ·			
рітсн				
CONTROL STRUCTURE (CS)				
DITCH INLET (DI)				
GRATE INLET (GI)		E		
HOODED INLET (HI)	OR I	OR (m)		
UNCTION BOX (JB)				
MANHOLE (SDMH)	0	•		
ROLL CURB INLET (RC)				
ROOF INLET (RI)				
ALLEY INLET (VI)	■			
ARD INLET (YI)	®	®		
EVELED END SECTION (BES)	А			
ND SECTION (ES)	Ы			
LARED END SECTION (FES)	Ы			
-¼° BEND - HORIZONTAL	1	11		
:2-½° BEND - HORIZONTAL	/	/		
5° BEND - HORIZONTAL	/	/1		
90° BEND - HORIZONTAL	_1	٦		
CLEANOUT	O ⁴	●1		
LUG		I		

<u>ABBREVIATIONS</u>							
DBL	DOUBLE	FM	FORCE MAIN (SANITARY SEWER)	ос	ON CENTER	ss	SANITARY SEWER
вот	воттом	FP	FINISH PAD	PC	POINT OF CURVE	тс	TOP OF CURB
СВ	CATCH BASIN	FR	FRAME	PH	POST HYDRANT	TE	TOP ELEVATION
CI	CURB INLET	GI	GRATE INLET	PT	POINT OF TANGENT	TG	TOP OF GUTTER
со	CLEAN OUT	GV	GATE VALVE	PVC	POLYVINYL CHLORIDE	TP	TOP OF PAVEMENT
CPP	CORRUGATED PLASTIC PIPE	HDPE	HIGH DENSITY POLYETHYLENE	RCP	REINFORCED CONCRETE PIPE	TW	TOP OF WALK
DBL	DOUBLE	HD	HOOD ELEVATION	RC	ROLL CURB INLET	TYP	TYPICAL
DI	DITCH INLET	н	HOODED INLET	RCP	REINFORCED CONCRETE PIPE	VI	VALLEY INLET
DIP	DUCTILE IRON PIPE	INV	INVERT ELEVATION	RI	ROOF INLET	w	WATER
EL	ELEVATION	JB	JUNCTION BOX	RJP	RESTRAINED JOINT PIPE	W/	WITH
ES	END SECTION	LF	LINEAR FEET	R/W	RIGHT-OF-WAY	wv	WATER VALVE
FES	FLARED END SECTION	MAX	MAXIMUM	SD	STORM DRAINAGE	YI	YARD INLET
FG	FINISH GRADE	MIN	MINIMUM	SDMH	STORM DRAINAGE MANHOLE		
FH	FIRE HYDRANT	МН	MANHOLE	SF	SQUARE FEET		

SEWER LEGEND			
<u>DESCRIPTION</u>	EXISTING	PROPOSED	
GRAVITY PIPE	ss		
MANHOLE			
CLEANOUT	O ⁺	• +	
	-		

OTHER UTILITIES LEGEND				
DESCRIPTION	EXISTING			
NATURAL GAS	——————————————————————————————————————			
TELEPHONE	——— ОНТ ———			
UNDERGROUND TELEPHONE	UTL UTL			
ELECTRICITY	——————————————————————————————————————			
UNDERGROUND ELECTRICITY	——————————————————————————————————————			



ARCHITECTS Designs for a changing world **GASTON** COLLEGE 08.16.22

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GENERAL

SHEET NUMBER

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IN PLANTING/GRASS AREAS. REFER TO PAVEMENT CROSS SECTION DETAILS TO ESTABLISH CORRECT

- 4. NEW EARTHWORK SHALL BE BLENDED SMOOTHLY TO TIE INTO EXISTING GRADE
- 5. ALL NEW PAVEMENT AREAS SHALL HAVE POSITIVE DRAINAGE SUCH THAT ALL RUNOFF WILL DRAIN ACROSS PAVEMENT TO NEW OR EXISTING DRAINAGE FEATURES OR SHEET FLOW OVERLAND. 6. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR BUILDING AND RETAINING WALL FOUNDATION DRAIN LOCATIONS, PIPE SIZES, AND MATERIALS. REFER TO CIVIL PLANS FOR EXTENSION OF FOUNDATION DRAIN LINES FROM WALL TO OUTFALL LOCATION. ALL FOUNDATION DRAIN LINES WHICH CONNECT TO THE

PROPOSED STORMWATER SYSTEM RATHER THAN DISCHARGING TO GRADE SHALL HAVE A BACKWATER

- VALVE AT THE TIE-IN LOCATION. A TERMINAL TYPE BACKWATER VALVE SHALL BE INSTALLED AT CATCH BASINS AND MANHOLES. REFER TO DETAIL B2/C2.3. 7. ANY PROPOSED GRASSED (SEEDED OR SODDED), MULCHED OR PLANTING AREA SHALL BE LEFT 6" BELOW FINISHED GRADES SHOWN. THE FINAL 6" IN ALL DISTURBED AREAS SHALL BE A 6" LAYER OF TOPSOIL. BEFORE PLACING THE TOPSOIL, THE TOP 6" OF THE SUBGRADE SHALL BE UNCOMPACTED WITH ALL STONE
- AND CONSTRUCTION DEBRIS REMOVED. WORK THE FIRST 3" OF TOPSOIL INTO THE TOP 3" OF LOOSENED SUBGRADE BEFORE SPREADING THE FINAL 3" OF TOPSOIL. IF TOPSOIL SECTION IS INDICATED AS GREATER THAN 6" ON LANDSCAPE PLANS, FOLLOW LANDSCAPE PLANS.
- 8. ALL DRAINAGE STRUCTURES SHALL BE GROUTED TO THE INVERT OF THE OUTFLOW PIPE TO ELIMINATE ANY SUMP CONDITION. ALL PIPE PENETRATIONS SHALL BE FLUSH WITH THE STRUCTURE WALL AND GROUTED.
- 9. DRAINAGE STRUCTURE ORIENTATION SHALL BE AS SHOWN ON THE DRAWINGS. GRATES ARE TYPICALLY SHOWN SET SQUARE TO THE ADJACENT WALK EDGE, BUILDING FACE, OR CURBILINE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING THE DRAINAGE STRUCTURE AT NO ADDITIONAL COST TO THE
- IO. ALL ROOF LEADERS TO BE EITHER SCH. 40 PVC, SMOOTH WALL HDPE, OR DUCTILE IRON PIPE. ALL ROOF LEADERS SHALL HAVE A 1% MINIMUM SLOPE AND MAINTAIN A 24" MIN. COVER (18" MIN. IN NON-VEHICULAR AREAS WITH SCH. 80 PVC OR DUCTILE IRON, AND 48" MIN. FOR PVC WITHIN VEHICULAR AREAS). REFER TO DETAIL AI/C2.3 FOR CLEANOUTS. ALL ROOF LEADERS SHALL CONNECT TO MAIN LINES WITH WYE FITTINGS STORM DRAINAGE PIPING: IF NOTED AS OPTIONAL, THE CONTRACTOR MAY PROVIDE EITHER CLASS III RCP OR SMOOTH WALL HDPE. INSTALL HDPE AS PER MANUFACTURER'S RECOMMENDATIONS. BEDDING SHALL BE INSTALLED FOR ALL STORM DRAINAGE PIPE. ALL PIPE DEEPER THAN IO' SHALL BE CLASS III RCP. IF NOT NOTED AS OPTIONAL, CONTRACTOR MUST PROVIDE THE MATERIAL CALLED OUT ON THE PLANS
- 12. ALL SLOPES 3:1 AND GREATER AND ALL GRASSED CHANNELS AND SWALES SHALL BE STABILIZED WITH TEMPORARY EROSION CONTROL SYNTHETIC LINER, FOR INSTALLATION, ADDITIONALLY, A 6" DIAMETER STRAW WATTLE SHALL BE STAKED ALONG THE CONTOUR OF THE SLOPE BEGINNING AT THE TOP OF SLOPE AND VERTICALLY SPACED AS REQUIRED.
- 13. DRAINAGE GRATES ARE TO BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL PREVENT CONCRETE SPLASH, PAINT, OR OTHER DAMAGE FROM OCCURRING OR RESTORE/REPLACE AT COMPLETION
- 14. TW AND BW ELEVATIONS PROVIDED REFER ONLY TO THE GRADE ELEVATION AT THE WALL. REFER TO ARCH. AND STRUCT. PLANS OR SEGMENTAL WALL SHOP DRAWINGS FOR TOTAL WALL HEIGHT ABOVE GRADE FOR PARAPETS, CAPS, SEAT WALL AND SCREEN WALL SECTIONS.
- 15. ALL SPOT ELEVATIONS SHOWN WITHIN PAVED AREAS AND ALONG CURBS REPRESENT TOP OF PAVEMENT (TP) OR BOTTOM OF CURB (BC) UNLESS OTHERWISE INDICATED

PRIOR TO ANY DEMOLITION OR CLEARING ACTIVITY, ALL PROPOSED EROSION CONTROL MEASURES ARE TO

BE INSTALLED, CLEARING OR DEMOING ONLY AS NECESSARY TO INSTALL THE DEVICES. IF REQUIRED BY AN

PRECONSTRUCTION CONFERENCE WITH THE EROSION CONTROL INSPECTOR FROM THE OFFICE REQUIRING THE

ASSOCIATED FROSION CONTROL PERMIT BY NCDEO OR THE LOCAL AUTHORITY SET UP AN ON-SITE

- 2. CONTRACTOR SHALL SUPPLY DESIGNER A SITE LOGISTICS PLAN THAT LOCATES ALL FENCED IN AREAS, GATE ACCESSES, SIGNAGE, ETC. PRIOR TO DEMOLITION.
- 3. ALL REMOVED MATERIAL, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE 4. COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR
- DEMOLITION OF THOSE ITEMS. 5. ALL PAVEMENT CUTS SHALL BE MADE BY SAW CUT.

OWNER IF SHOWN ORIENTATIONS ARE NOT OBTAINED.

- 6. ALL BORROW OR WASTE SOIL BROUGHT INTO OR TAKEN FROM SITE SHALL BE TAKEN FROM OR TO A PERMITTED LANDFILL OR ANOTHER PERMITTED SITE.
- I. ALL EXPANSION JOINTS ARE TO BE SEALED. REFER TO SPECIFICATIONS.
- 2. ALL DIMENSIONS ARE TO FACE OF CURB OR TO FINISHED FACE OF BUILDING UNLESS OTHERWISE NOTED.
- 3. ALL CURB RADII SHALL BE 2'-6" UNLESS OTHERWISE NOTED.
- 4. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB. 5. ANY BUILDING DIMENSIONS SHOWN ARE NOMINAL. CONSULT ARCHITECTURAL PLANS BEFORE ACTUAL FIELD
- 6. ALL SIDEWALKS, RAMPS AND ACCESSIBLE ROUTES SHALL HAVE A 1.5% MAXIMUM CROSS SLOPE. IN NO
- INSTANCE SHALL THE CROSS SLOPE EXCEED 2.0%. WORK WITH EXCESSIVE CROSS SLOPES SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER.
- 7. MAXIMUM ELEVATION CHANGE AT HANDICAP ACCESSIBLE DOORS SHALL NOT EXCEED ¼" VERTICAL OR ⅓"
- 8. NO PAVEMENT STRIPING SHALL OCCUR UNTIL AFTER PAVING HAS CURED 30 DAYS.
- 9. ALL HANDICAP PARKING SPACES AND ACCESS AISLES SHALL MAINTAIN A MAXIMUM SLOPE OF I/4" PER I' IN ANY DIRECTION PER THE NC ACCESSIBILITY CODE CONTRACTOR IS RESPONSIBLE FOR ACHIEVING POSITIVE DRAINAGE. FLAT AREAS OR AREAS OF EXCESSIVE SLOPE SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- I. ALL WATER AND SEWER WORK TO BE PERFORMED IN ACCORDANCE WITH NC DEQ AND LOCAL UTILITY

GENERAL NOTES

- PROVIDER'S STANDARDS AND SPECIFICATIONS.
- . REQUIRED WATER/SEWER SEPARATION: IO' LATERAL, UNLESS BOTTOM OF WATER MAIN >18" ABOVE TOP OF SEWER IN A SEPARATE TRENCH. WHEN THESE SEPARATIONS CANNOT BE MAINTAINED OR WHEN THE SEWER IS ABOVE THE WATER MAIN, BOTH THE WATER AND SEWER LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM LATERAL DISTANCE OF IO FT ON EACH SIDE OF THE CROSSING.
- REQUIRED SEWER SEPARATION WITH OTHER UTILITIES: SEWER BELOW UTILITY: 24" CLEAR WITH STONE BEDDING FROM 6" BELOW SEWER TO 12" ABOVE SEWER, SEWER ABOVE UTILITY: 12" CLEAR, CLEARANCES MEASURED AS NOTED FOR WATER CONFLICTS. WHEN THESE SEPARATIONS CANNOT BE MAINTAINED, THE SEWER LINE SHALL BE CONSTRUCTED OF FERROUS MATERIAL WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM LATERAL DISTANCE OF 10 FT ON EACH SIDE OF THE CROSSING.
- 4. THERE SHALL BE NO TAPS, PIPING, BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OR OTHER WATER-USING APPURTENANCES CONNECTED ON THE SUPPLY SIDE OF ANY
- BACKFLOW PREVENTERS. 5. EACH NEW BPA IS REQUIRED TO BE TESTED BY A CERTIFIED TESTER IN ACCORDANCE WITH THE LOCAL
- AUTHORITY PRIOR TO PLACING THE WATER SYSTEM IN SERVICE. 6. REFER TO LANDSCAPE PLANS FOR ALL PROPOSED SCREENING OF ABOVE GROUND BACKFLOW PREVENTERS . ALL SANITARY SEWER LATERALS SHALL MAINTAIN A MIN. COVER OF 36" WITH CLEANOUTS AT 75' MAX.

SPACING. MAINTAIN A MINIMUM SLOPE = I.O%. CLEANOUTS IN PAVED AREAS SHALL BE TRAFFIC BEARING

CLEANOUTS. CLEANOUTS WITHIN UNIT PAVER AREAS SHALL HAVE BRASS CAPS. SEE DETAIL AI/C2.3.

- 8. ALL SANITARY SEWER PIPE SHALL BE BEDDED IN ACCORDANCE WITH DETAIL A2/C2.3.
- 9. ALL SEWER SERVICE LINES EXTENDED TO BUILDINGS SHALL TERMINATE WITH A CLEANOUT 5' FROM THE FACE OF THE BUILDING. THE PLUMBING CONTRACTOR SHALL MAKE THE CONNECTIONS.
- IO. DASHED WATER AND SEWER LINES REPRESENT LINES AND CONNECTIONS TO BE INSTALLED BY THE PLUMBING CONTRACTOR. ALL BENDS AND INTERSECTIONS IN WATER LINES SHALL HAVE CONCRETE BLOCKING.
- 12. ALL NEW UNDERGROUND UTILITY LINES INCLUDING LAWN IRRIGATION LINES, THAT ARE LOCATED OUTSIDE OF THE BUILDING FOOTPRINT ARE REQUIRED TO HAVE A CONTINUOUS WARNING TAPE INSTALLED IN THE BACKFILL DIRECTLY OVER THE UTILITY LINE 6" TO 24" BELOW FINISHED GRADE AND 6" BELOW SUBGRADE UNDER PAVEMENT SECTIONS. REFER TO SPECIFICATIONS DIVISION 31 FOR WARNING TAPE REQUIREMENTS. BOTH METALIC AND NON-METALIC PIPES, OTHER THAN GAS LINES, SHALL BE IDENTIFIED BY DETECTABLE MAGNETIC TYPE WARNING TAPE, MIN. 2" WIDE, WITH LETTERING TO IDENTIFY BURIED LINE BELOW. 2018 NC GAS CODE, SECTION 404.17.3 TRACER: AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NONMETALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVEGROUND AT THE END OF THE NONMETALLIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18AWG AND THE INSULATION
- TYPE SUITABLE FOR DIRECT BURY. 13. ALL VALVE BOXES WITHIN YARD AREAS SHALL BE FLUSH WITH FINISHED GRADE AND PROTECTED WITH A
- PRECAST CONCRETE DONUT OR A FORMED CONCRETE PAD. 14. ALL UNDERGROUND UTILITIES, INCLUDING IRRIGATION AND METALIC PIPE SHALL HAVE TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE TOP OF THE PIPE TAPED AT 10' MAXIMUM INTERVALS. TRACER WIRE SHALL BE BROUGHT UP AT ALL VAULTS, MANHOLES, VALVE BOXES, FIRE HYDRANTS, FREE STANDING FDC'S, ETC. AS SHOWN IN DETAIL BI/C2.3.
- 2018 NC PLUMBING CODE SECTION 306.2.4 TRACER WIRE. (190312 ITEM B-12): 306.2.4 TRACER WIRE. FOR PLASTIC SEWER PIPING, AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO AND OVER THE FULL LENGTH OF THE PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE AT THE CLEANOUT BETWEEN THE BUILDING DRAIN AND BUILDING SEWER. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 14 AWG AND THE
- INSULATION TYPE SHALL BE LISTED FOR DIRECT BURIAL. 15. ALL NEW WATER VALVES SHALL BE CLOCKWISE TO CLOSE.

PAVEMENT MARKING AND SIGNAGE NOTES

- IG. THE MINIMUM BURIAL DEPTH FOR ALL NEW WATER AND SEWER LINES SHOWN ON THIS SHEET SHALL BE THREE FEET. PVC LINES BENEATH VEHICULAR DRIVES, ROADS, PARKING, ETC. SHALL HAVE A MINIMUM
- 2. ALL EXISTING SIGNS AND PAVEMENT MARKINGS REMOVED DURING PROJECT DEMOLITION, OR FOR REASONS OF CONFLICT. REGARDLESS OF INCLUSION ON SURVEY OR THIS PLAN. ARE TO BE REINSTALLED TO PREVIOUS LAYOUT OR IN A CLOSE ALTERNATE LOCATION AS COORDINATED WITH THE CAMPUS WITH NEW SIGN POSTS AND MOUNTING HARDWARE.
- 3. ALL NEW SIGNS SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING THAT MEETS THE MINIMUM RETROREFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD (2009).

I. ALL PROPOSED SIGNS SHOWN ON THESE PLANS ARE TO BE INSTALLED BY THE CONTRACTOR.

- 4. ALL SIGNS SHALL BE INSTALLED WITH NEW POSTS AND HARDWARE.
- 5. THE LATERAL OFFSET OF ALL ROADWAY SIGNS FROM FACE OF CURB TO THE EDGE OF THE SIGN SHALL BE BETWEEN 2' AND 5' (USE 3' UNLESS OBSTRUCTED). FOR AREAS WHERE THERE IS A SIDEWALK ADJACENT TO THE CURB, SET THE POST CLOSE TO THE CURB, PROVIDING A 1' LATERAL OFFSET FROM FACE OF CURB TO
- 6. ALL PAVEMENT MARKINGS SHALL CONFORM TO ALL CURRENT MUTCD STANDARDS.

PROVIDING A 2" SHADOW MARGIN ON EACH SIDE OF THE WHITE MARKING.

7. ALL PAVEMENT MARKINGS SHALL BE TWO COATS OF PAINT. ADDITIONALLY, ANY PROPOSED CROSS WALK OR STOP BAR MARINGS SHALL BE REFLECTORIZED WITH GLASS BEADS TO CONFORM TO MUTCD PAVEMENT

8. CONTRACTOR SHALL MILL ANY EXISTING MARKING SHOWN TO BE REMOVED WHERE THE PAVEMENT SURFACE

9. CONTRACTOR SHALL TIE PROPOSED MARKINGS TO EXISTING MARKINGS AT PROJECT LIMITS. IO. ANY PROPOSED WHITE PAVEMENT MARKINGS ON CONCRETE SHALL BE SHADOWED WITH BLACK MARKINGS,

WILL BE LEFT INTACT. EXISTING MARKINGS IN CONFLICT WITH PROPOSED MARKINGS SHALL ALSO BE MILLED.

TOWN OF BELMONT GENERAL NOTES:

BECOME PUBLICLY MAINTAINED. THE DESIGN PROFESSIONAL AND CONTRACTOR SHALL PROVIDE ADEQUATE NOTIFICATION AND COORDINATION IT ENSURE ALL IMPROVEMENTS ARE INSPECTED DURING CONSTRUCTION. REGULAR WORKING HOURS ARE DEFINED AS 8 HOURS PER DAY BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM, MONDAY THROUGH FRIDAY, EXCLUDING CITY OF BELMONT HOLIDAYS. IF THE CONTRACTORINTENDS TO WORK OTHER THAN REGULAR WORKING HOURS. HE SHALL SUBMIT A WRITTEN REQUEST TO THE CITY INSPECTOR NOT LESS THAN 48 HOURS PRIOR TO ANY PROPOSED WEEKEND WORK OR SCHEDULED EXTENDED

THE CITY OF BELMONT WILL PROVIDE PART TIME INSPECTION SERVICES FOR IMPROVEMENTS THAT ARE TO

- CONTRACTOR SHALL REIMBURSE THE CITY OF BELMONT FOR ADDITIONAL INSPECTION COSTS INCURRED AS A
- RESULT OF OVERTIME WORK IN EXCESS OF THE REGULAR WORKING HOURS STIPULATED IN NOTE 2. OVERTIME COSTS FOR CITY PERSONNEL SHALL BE \$75 PER HOUR. CONSTRUCTION MATERIALS AND METHODS SHALL BE GOVERNED BY THE CURRENT CITY OF BELMONT LAND DEVELOPMENT STANDARDS MANUAL AND THE DESIGN PROFESSIONAL'S WRITTEN SPECIFICATIONS.REQUEST FOR ANY VARIANCES TO THESE STANDARDS SHALL BE SUBMITTED TO AND REVIEWED BY DESIGN PROFESSIONAL. DESIGN PROFESSIONAL SHALL THEN MAKE FORMAL SUBMITTALS TO THE CITY FOROFFICIAL
- APPROVAL. CONSTRUCTION WHICH DOES NOT CONFORM TO THE LAND DEVELOPMENT STANDARDS MANUAL WILL BE REJECTED. SHOP DRAWINGS AND MATERIAL SPECIFICATION SHEETS SHALL BE SUBMITTED TO THE DESIGN PROFFSSIONAL FOR APPROVAL CONTRACTOR SHALL AFFIX A STAMP TO FACH SHOP DRAWING OR MATERIALS SPECIFICATION SHEET STATING THAT HE APPROVES THE ITEM AS MEETING THE DESIGN PROFESSIONAL'S SPECIFICATIONS. THE STAMP SHALL INCLUDE CONTRACTOR'S NAME, LANGUAGE REGARDING CONTRACTOR'S APPROVAL, AND IT MUST BE SIGNED AND DATED BY THE CONTRACTOR. THE DESIGN
- PROFESSIONAL WILL REVIEW AND APPROVE THESE DOCUMENTS PRIOR TO SUBMITTAL TO THE CITY FOR FINAL ACCEPTANCE.THE DESIGN PROFESSIONAL SHALL AFFIX HIS COMPANY'S STAMP AND SIGN EACH SUBMITTAL ITEM. CITY, AFTER REVIEW, WILL ISSUE FINAL MATERIAL AND EQUIPMENT APPROVAL. UPON FINAL APPROVAL OF THE PLANS BY THE CITY OF BELMONT, GASTON NATURAL RESOURCES DEPARTMENT, NCDENR DIVISION OF WATER QUALITY. NCDENR PUBLIC WATER SUPPLY DIVISION.AND NCDOT AS APPLICABLE, THE DESIGN PROFESSIONAL SHALL SUBMIT COPIES OF ALL PERMITS ISSUED TO THE BELMONT CITY ENGINEER. AFTER RECEIPT AND VERIFICATION OF THESE APPROVALS, THE DESIGN PROFESSIONAL AND DEVELOPER MAY REQUEST A PRECONSTRUCTION MEETING WITH CITY STAFF. THIS MEETING IS MANDATORY AND MUST BE ARRANGED THROUGH THE PUBLIC WORKS DIRECTOR. IN ATTENDANCE
- THE DESIGN PROFESSIONAL. THE DESIGN PROFESSIONAL SHALL PROVIDE THE FOLLOWING MATERIALS WITH HIS REQUEST FOR THIS MEETING:SUBCONTRACTORS, AND THE DESIGN PROFESSIONAL. THE DESIGN PROFESSIONAL SHALL PROVIDE THE FOLLOWING MATERIALS WITH HIS REQUEST FOR THIS MEETING: a. ALL APPLICABLE PERMIT APPROVALS (3 COPIES).

AT THE MEETING SHALL BE THE DEVELOPER, THE GENERAL CONTRACTOR, PRIMARY SUBCONTRACTORS, AND

- b. FINAL CONSTRUCTION PLANS AND SPECIFICATIONS, CLEARLY NOTED AS "RELEASED FOR CONSTRUCTION" (3
- FULL SIZED COPIES AND ONE HALF SIZE COPY). SHOP DRAWING SUBMITTALS FOR ALL MATERIALS TO BE INCORPORATED INTO THE PUBLIC IMPROVEMENTS. THE SHOP DRAWINGS SHALL HAVE BEEN REVIEWED BY THE DESIGN PROFESSIONAL AND STAMPED AS "APPROVED" (4 COPIES).
- d. LIST OF ALL PARTIES INVOLVED WITH THE DESIGN AND CONSTRUCTION OF THE PROJECT, INCLUDING THE DEVELOPER AND PROJECT OWNER, LIST SHALL INCLUDE AUTHORIZED REPRESENTATIVE FOR EACH ENTITY AND FULL CONTACT INFORMATION INCLUDING ADDRESSES, 24-HOUR CELL PHONE NUMBERS, EMAIL ADDRESSES, ETC. (3 COPIES)
- CONTRACTOR MUST OBTAIN A GRADING PERMIT FROM THE BELLMONT PLANNING DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION. THE CITY WILL NOT ISSUE THIS PERMIT UNTIL ALL OFF-SITE EASEMENTS HAVE BEEN OBTAINED AND RECORDED, ALL OTHER PERMITS HAVE BEEN OBTAINED WITH COPIES DELIVERED TO THE CITY ENGINEER, AND A PRECONSTRUCTION MEETING HELD. BEGINNING WORK ON THE SITE PRIOR TO THE ISSUANCE OF THE GRADING PERMIT WILL SUBJECT THE CONTRACTOR TO FINES AND OTHER REMEDIES
- PRESCRIBED IN BELMONT AND GASTON COUNTY ORDINANCES AND CODES. RECORD DRAWINGS MUST BE PROVIDED IN PAPER AND DIGITAL FORMAT (AUTOCAD AND ADOBE PDF) PRIOR TO ACCEPTANCE OF THE WATER SANITARY SEWER AND DRAINAGE SYSTEMS FOR MAINTENANCE BY THE CITY. THE RECORD DRAWINGS FOR THIS PROJECT MUST INCLUDE SPECIFIC INFORMATION REGARDING THE
- a. WATER MAINS, WATER SERVICE TAPS ON THE MAIN, VALVES, AND FIRE HYDRANTS.
- b. SANITARY SEWERS, MANHOLES, SEWER SERVICE TAPS ON THE SEWER.
- c. PUMP STATION AND FORCE MAIN. d. STORM SEWERS, MANHOLES, CATCH BASINS, SUBSURFACE DRAINS.
- e. DETENTION AND WATER QUALITY FACILITIES INCLUDING FIELD VERIFICATION OF BASIN VOLUMES. f. ALL EXISTING BURIED UTILITIES ENCOUNTERED DURING CONSTRUCTION.
- a. ROCK IF ENCOUNTERED DURING CONSTRUCTION.
- FACILITIES ARE CHANGED DURING CONSTRUCTION, THE EASEMENT DOCUMENTS SHALL BE UPDATED AND CONSTRUCTION FOR THE PLACEMENT AND COMPACTION OF FILL DIRT SHALL BE CONTROLLED AND TESTED BY A CERTIFIED GEOTECHNICAL ENGINEER. THE CITY OF BELMONT ASSUMES NO LIABILITY OR

9. UTILITY EASEMENTS HAVE BEEN EXECUTED AND RECORDED. IF THE LOCATIONS OF WATER AND SEWER

RESPONSIBILITY REGARDING THE FILLING OF THE LOTS. FILLS IN RIGHTS OF WAY WILL BE MONITORED BY THE CITY INSPECTOR. THE DESIGN PROFESSIONAL SHALL SUBMIT COMPACTION TESTING RESULTS TO THE CITY INSPECTOR AS VERIFICATION THAT SPECIFIED COMPACTION IS ACHIEVED. II. ANY SPRINGS DISCOVERED DURING CONSTRUCTION OF THE IMPROVEMENTS MUST BE ACCOMMODATED BY THE

EXTENSION OF THE STORM DRAINAGE SYSTEM TO PREVENT WATER FROM FLOWING OVER PUBLIC

SIDEWALKS, CURBS, AND PAVEMENTS. THESE EXTENSIONS SHALL BE INCLUDED ON THE RECORD DRAWINGS.

- 12. NO TREES MAY BE REMOVED FROM THE SITE WITHOUT FIRST IDENTIFYING TREES TO REMAIN IN THE FIELD WITH YELLOW FLAGGING. TREE PROTECTION FENCING IS REQUIRED BY CITY CODE. THE CITY OF BELMONT DOES NOT GUARANTEE WATER VOLUME AND WATER DISTRIBUTION SYSTEMPRESSURE.
- 13. NO VERTICAL BUILDING CONSTRUCTION MAY PROCEED UNTIL THE WATER MAINS AND FIRE HYDRANTS ARE INSTALLED AND APPROVED FOR OPERATION BY THE NCDENR PUBLIC WATER SUPPLY DIVISION. THIS PROCESS REQUIRES COMPLETE INSTALLATION. PRESSURE TESTING OF THE WATER MAIN, DISINFECTION, ACCEPTABLE BACTERIOLOGICAL TEST RESULTS, CERTIFICATION BY THE DESIGN PROFESSIONAL, APPLICANT CERTIFICATION, AND SUBMITTAL TO THE NCDENR PUBLIC WATER SUPPLY SECTION FOR AUTHORITY TO OPERATE APPROVAL. THE CONSTRUCTION OF THE WATER MAIN MAY BE THE CRITICAL PATH ITEM FOR STARTING BUILDING CONSTRUCTION.

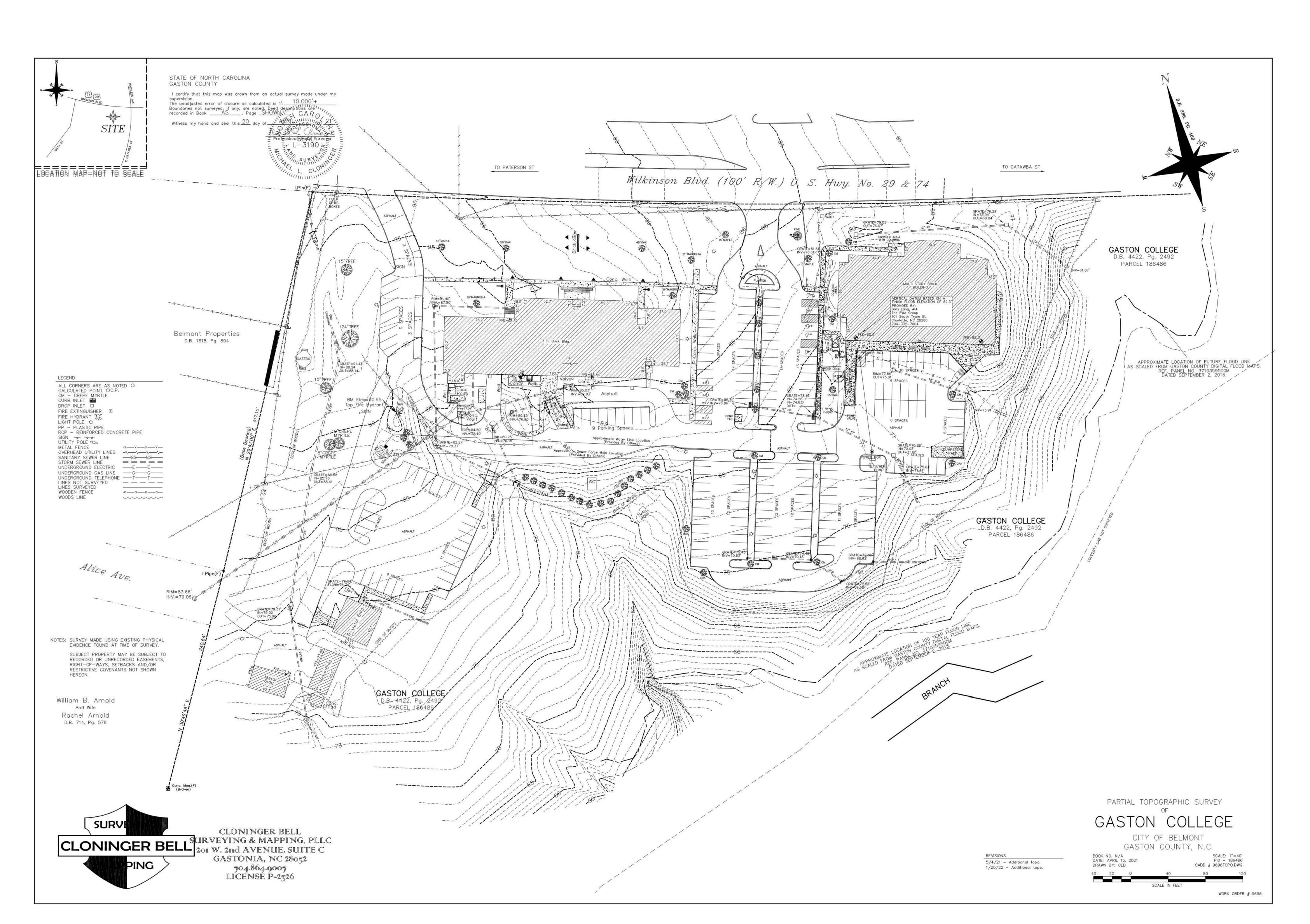
- 14. WATER AND SEWER SYSTEMS CANNOT BE ACTIVATED UNTIL FINAL APPROVAL FROM NCDENR IS OBTAINED AND NCDENR APPROVAL LETTERS ARE RECEIVED BY THE CITY. THE PROJECT DESIGN PROFESSIONAL SHALL PROVIDE THE NECESSARY SERVICES REQUIRED IN ORDER FOR HIM TO MAKE THE CERTIFICATIONS NECESSARY FOR SUCH FINAL APPROVALS. IF A DIFFERENT ENGINEER WILL BE RETAINED BY THE
- THE DESIGN PROFESSIONAL AND MUST BE APPROVED BY THE CITY PRIOR TO ANY CONSTRUCTION
- 16. THE MINIMUM PAVEMENT CROSS-SECTION SHALL BE 8 INCHES OF ABC STONE BASE OR 5" TYPE B25.0B, 2 INCHES OF TYPE S9.5B OR TYPE SE9.5A ASPHALT INTERMEDIATE COURSE, AND I-1/2 INCHES OF TYPE SF9.5A ASPHALT SURFACE COURSE. THE FINAL SURFACE COURSE SHALL NOT BE INSTALLED UNTIL 50 PERCENT OF THE LOTS ON A STREET HAVE RECEIVED A CERTIFICATE OF OCCUPANCY FOR A PRINCIPAL STRUCTURE OR ONE YEAR AFTER THE COMPLETION OF THE BASE AND INTERMEDIATE COURSES. FINAL SURFACE COURSE SHALL NOT BE PLACED UNTIL THE STREET HAS BEEN INSPECTED BY THE CITY INSPECTOR AND ALL BASE AND INTERMEDIATE ASPHALT COURSES HAVE BEEN REPAIRED AND ARE DEEM IN
- 17. ALL PUBLICLY MAINTAINED STORM INLETS, CATCH BASINS, AND MANHOLES SHALL BE PRECAST CONCRETE
- 18. WATER SERVICE LINES AND SEWER SERVICES ARE NOT PERMITTED UNDER DRIVEWAYS. PAIRED SEWER SERVICES SHARING THE SAME TRENCH FOR ADJACENT LOTS ARE NOT PERMITTED. THE SAME APPLIES TO WATER SERVICES. SERVICES SHALL BE LOCATED IN THE MIDDLE OF THE LOT FRONTAGE TO AVOID DRIVEWAYS. IF THIS DOES NOT WORK WITH THE PROPOSED BUILDING PLANS, THEN SEWER SERVICES SHOULD BE AT THE LOW CORNER OF THE LOT FRONTAGE.
- 19. THE CITY DOES NOT ASSUME THE RESPONSIBILITY FOR REPLACEMENT OF PAVEMENTS, CONCRETE WALKS AND CURBING, OR LANDSCAPING IF REMOVAL OF THESE ITEMS IS REQUIRED TO REPAIR WATER AND SEWER 20. THE CITY RESERVES THE RIGHT TO DELETE ANY TREES THAT MAY CONFLICT WITH ADEQUATE VEHICULAR
- 2L THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON ALL IMPROVEMENTS. WARRANTY PERIOD DOES NOT BEGIN UNTIL THE IMPROVEMENTS HAVE BEEN INSPECTED AND ACCEPTED BY THE CITY IN

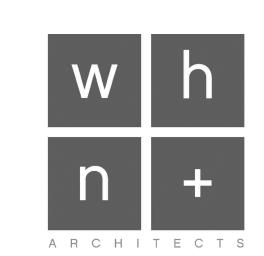
DEVELOPER FOR CONSTRUCTION PHASE SERVICES, THE DEVELOPER SHALL NOTIFY THE CITY OF BELMONT IN WRITING OF SUCH CHANGE IN DESIGN PROFESSIONAL 15. CLEARANCES BETWEEN SEWER, WATER, AND STORM PIPES HAVE BEEN CHECKED IN DETAIL BY THE DESIGN PROFESSIONAL. FIELD CHANGES FOR CROSSING CONFLICTS MUST BE SUBMITTED WITH REVISED PLANS BY

GOOD CONDITION BY THE CITY.

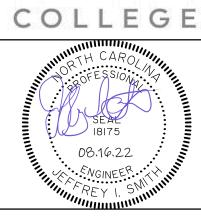
CONSTRUCTION. BRICK OR BLOCK STRUCTURES ARE UNACCEPTABLE.

ACCORDANCE WITH CURRENT CITY ACCEPTANCE POLICY. A TWO YEAR WARRANTY IS REQUIRED FOR TREES









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Charlotte, NC 28277 704.849.0130 Tel.

NCCS NO. 2575 PROJECT NO. 20172

DATE ISSUED 7/28/22 REVISIONS DESCRIPTION ZONING RESUBMITTAL 08/16/22

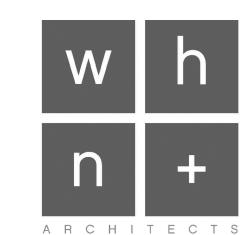
EXISTING CONDITIONS

C0.2

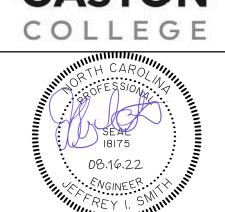
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TREE **INVENTORY**

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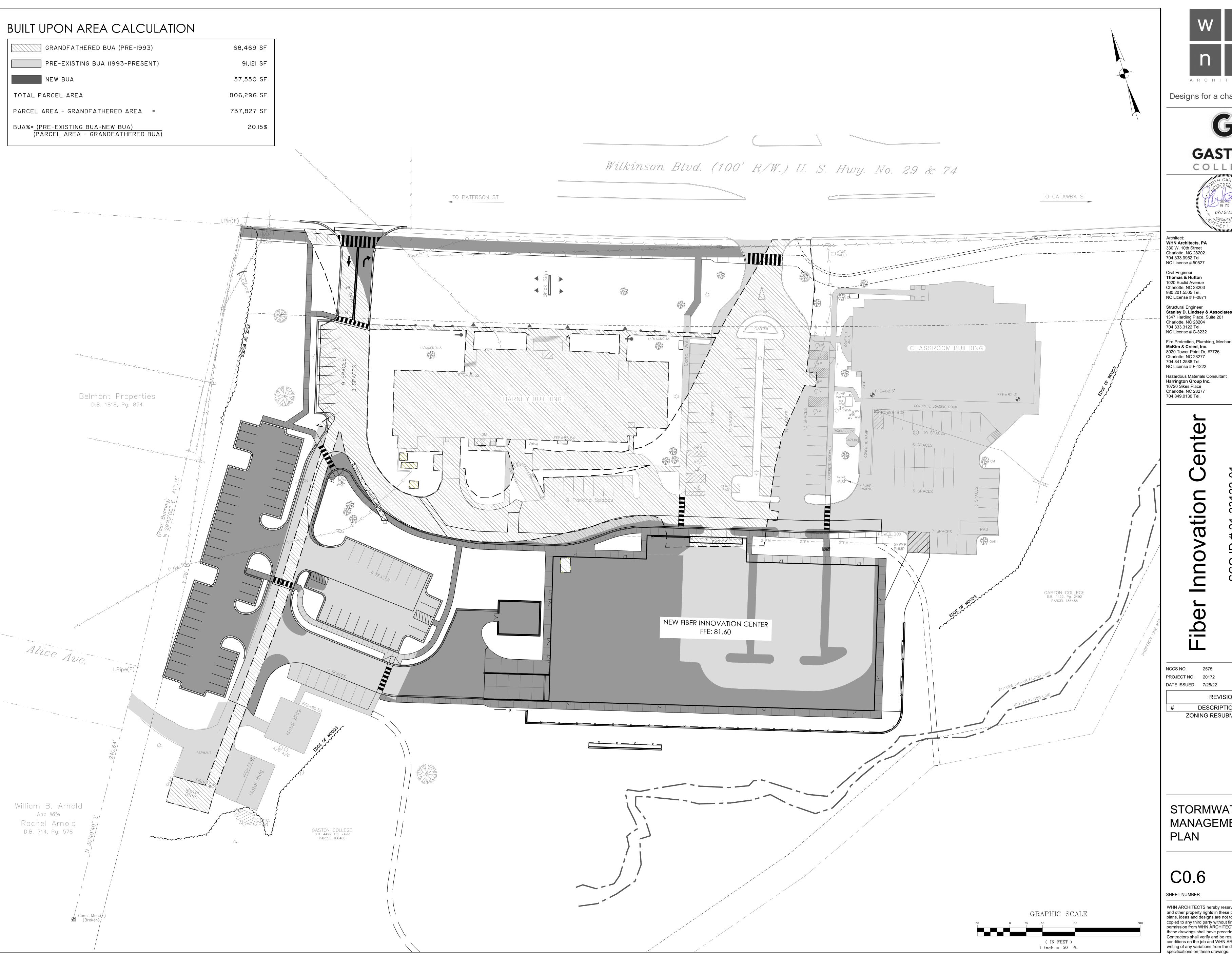
VEHICLE FLOW ANALYSIS

C0.5

1 inch = 40 ft.

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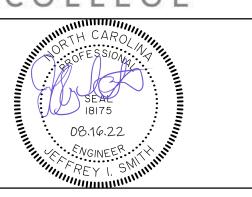




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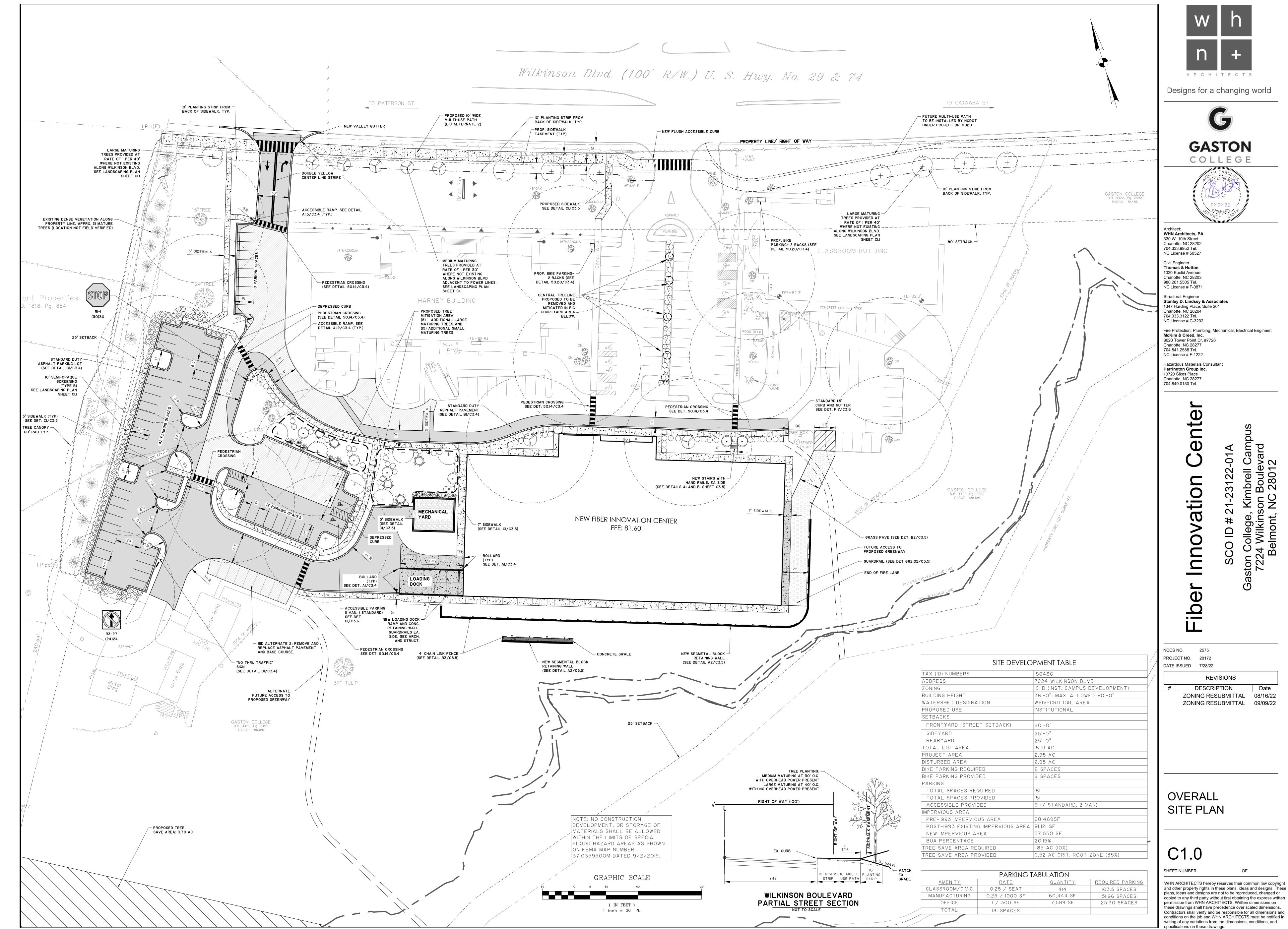
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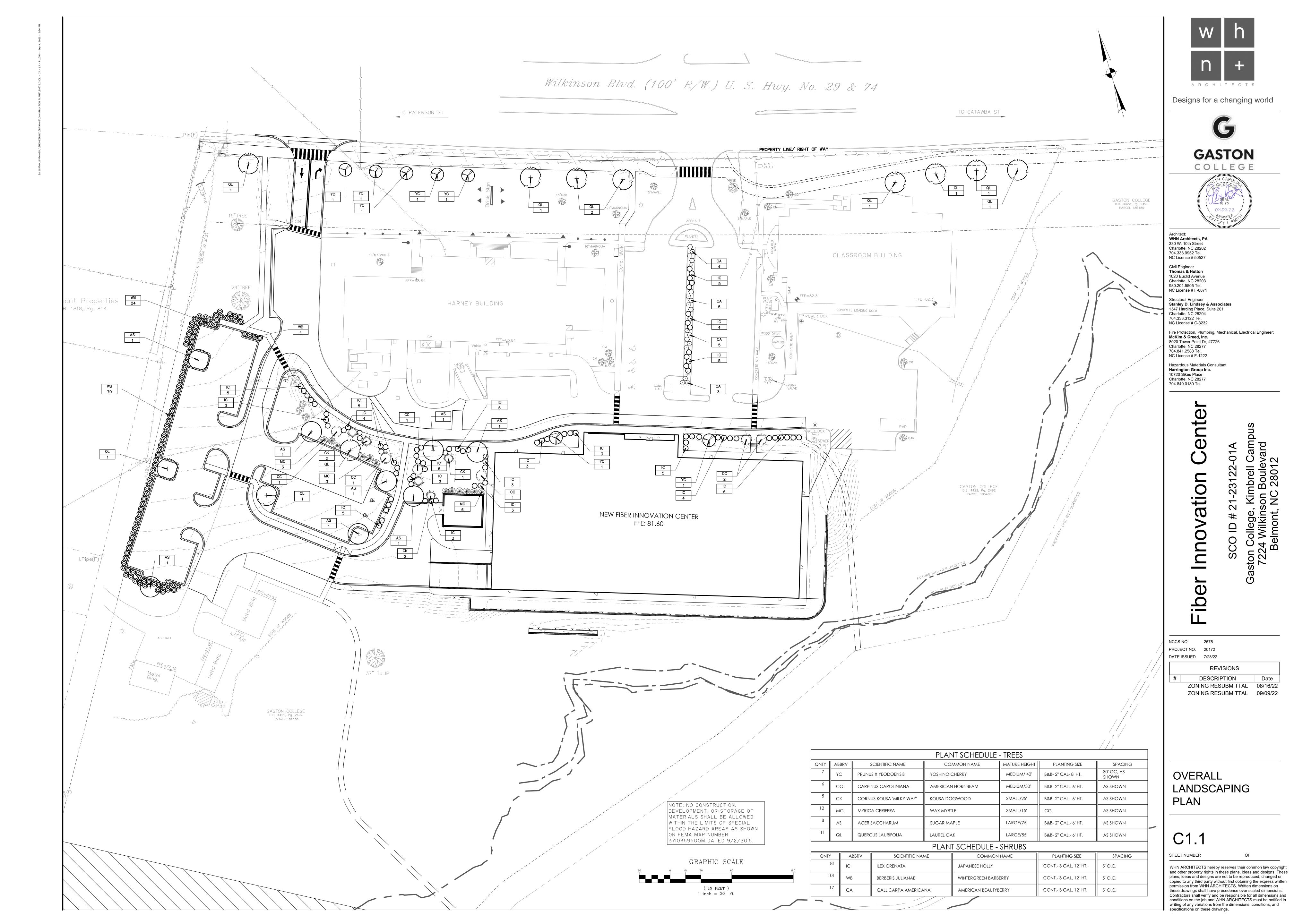
STORMWATER **MANAGEMENT** PLAN

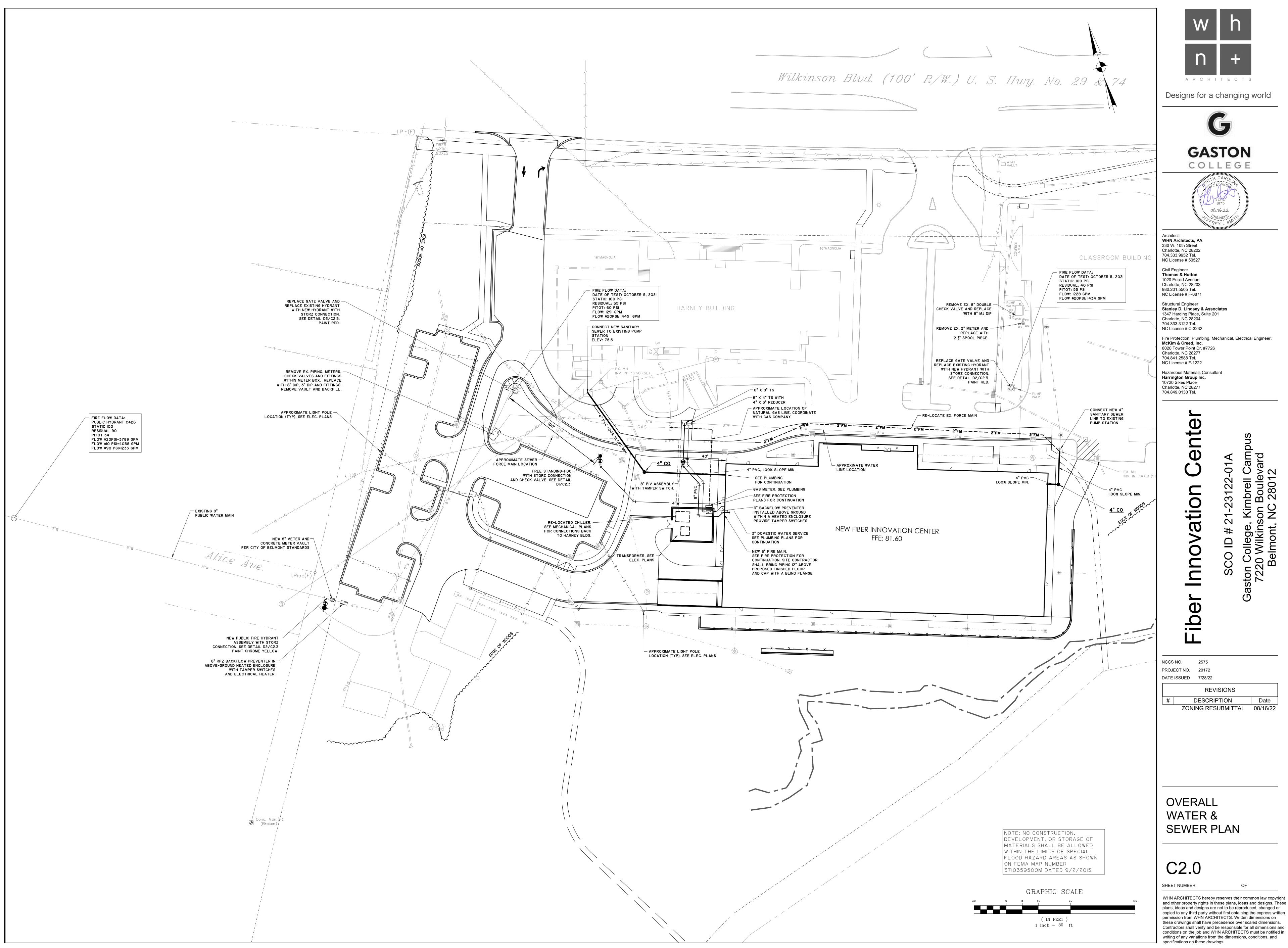
C0.6

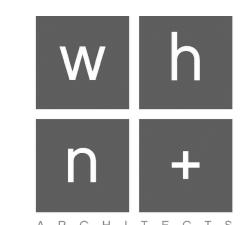
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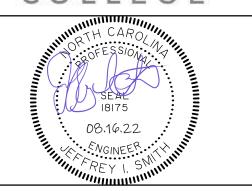
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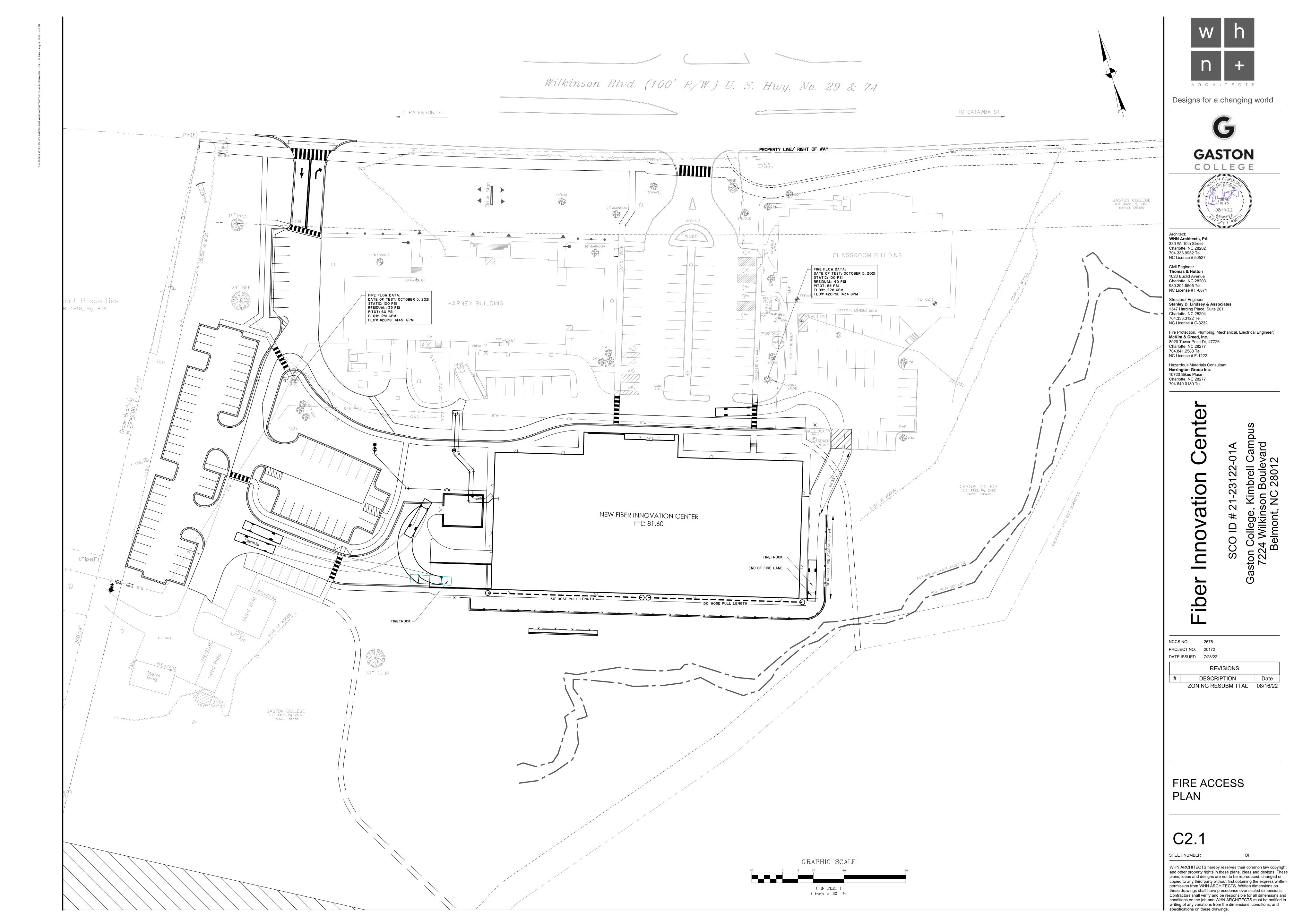






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BUILDING **ELEVATIONS**

A200

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