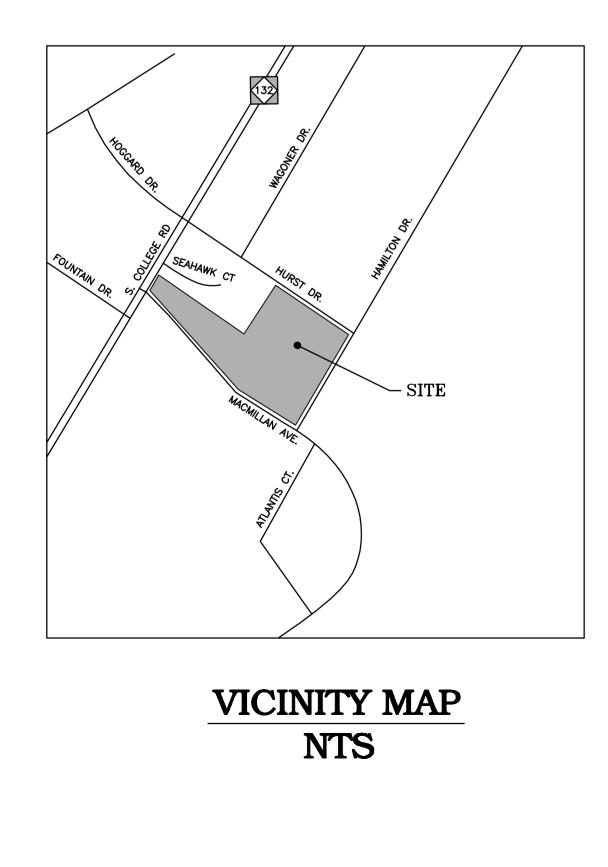
# UNIVERSITY OF NORTH CAROLINA HURST HAMILTON PARKING LOTS

## SITE DATA

OWNER/ DEVELOPER	UNIVERSITY OF NORTH CAROLINA — WILMINGTON 601 SOUTH COLLEGE ROAD WILMINGTON, NORTH CAROLINA 28403—5620
SITE ADDRESS	UNIVERSITY OF NORTH CAROLINA – WILMINGTON 601 SOUTH COLLEGE ROAD WILMINGTON, NORTH CAROLINA 28403–5620
PARCEL NUMBER	R5515-004-002-001, R05511-003-001-000
EXISTING ZONING	RB (REGIONAL BUSINESS), O&I (OFFICE & INSTITUTION)
EXISTING USE	EDUCATIONAL
PROPOSED USE	PARKING LOT
TOTAL PROJECT AREA	10.18 AC.
DISTURBED AREA	9.96 AC
IMPERVIOUS AREA	5.14 AC
WATERSHED	CAPE FEAR RIVER
SOILS	Mu (MURVILLE FINE SAND), Se (SEAGATE FINE SAND) Pn (PANTEGO LOAM)
PARKING PROVIDED	575 SPACES TOTAL (14 ADA SPACES, 5 VAN)
ADA SPACES REQUIRED	14 SPACES TOTAL (3 VAN)
BICYCLE SPACES REQUIRED PER COW LDC SEC. 18-528(f)	32 SPACES (32 SPACES PROVIDED)
STACKING SPACES	N/A
REQUIRED SETBACKS	N/A
THIS PROPERTY IS NOT FEMA MAP 3720313700	
*ALL SIGNS TO BE PERM *THERE IS NO FLOODPLA	MITTED SEPARATELY. AIN LOCATED ON THE PROPERTY.



Appr	oved Construction	n Plan
	Name	Date
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ire		

# **CONSTRUCTION DRAWINGS** SCO # 17-17725-01 601 SOUTH COLLEGE ROAD WILMINGTON, NORTH CAROLINA 28403 PROJECT NUMBER: UNW-17060

DATE: DECEMBER 11, 2017 REVISED: FEBRUARY 28, 2018 **REVISED: MAY 4, 2018 REVISED: JULY 2, 2018** 

**OWNER:** 

**UNIVERSITY OF NORTH CAROLINA - WILMINGTON** 601 SOUTH COLLEGE ROAD WILMINGTON, NORTH CAROLINA 28403-5620 PHONE: (910) 962-3761

**CONTACT:** 

MARK MORGAN, ASSOCIATE VICE CHANCELLOR **OF BUSINESS AFFAIRS - FACILITIES** EMAIL: MORGANM@UNCW.EDU

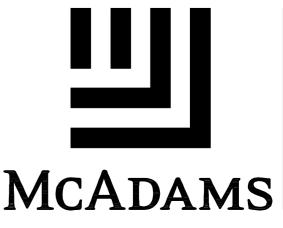


CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". **REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY** 

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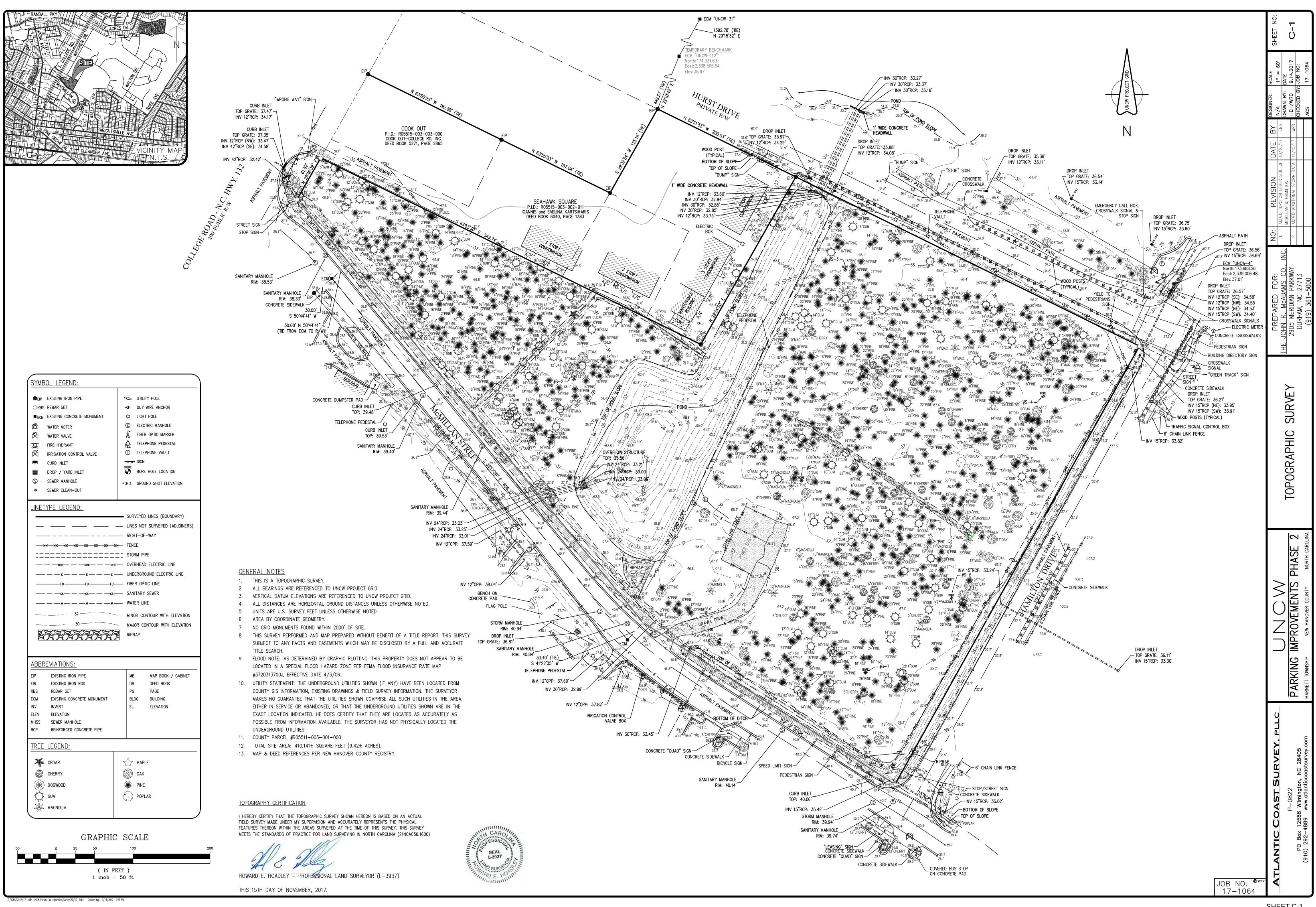
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- WEST PARKING LOT DEMOLITION PLAN
- **OVERALL SITE PLAN**
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THE JOHN R. McADAMS COMPANY, INC.

2905 Meridian Parkway Durham, North Carolina 27713 License No.: C-0293 919. 361. 5000 • McAdamsCo.com Contact: Daryl Riggins, PE riggins@mcadamsco.com



SHEET C-1

		1	2		3		
<b>A</b>			Table 6.10a Temporary Seeding Recommendations for Late Winter and Early Spring	Rye (grain) Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains) Omit annual lespedeza when dur extend beyond June. Seeding dates Mountains—Above 2500 feet: Feb, Below 2500 feet: Feb, Piedmont—Jan. 1 - May 1 Coastal Plain—Dec. 1 - Apr. 15 Soil amendments Follow recommendations of soil te agricultural limestone and 750 lb/ad Mulch Apply 4,000 lb/acre straw. Anchor s or a mulch anchoring tool. A disk w used as a mulch anchoring tool.	1- May 1 ests or apply 2,000 lb/acre ground cre 10-10-10 fertilizer. traw by tacking with asphalt, netting, ith blades set nearly straight can be guate. Reseed, refertilize and mulch	Table 6.10b Temporary Seeding Recommendations for Summer	Seeding mixt Species German millet In the Piedmont a substituted at a ra Seeding dates Mountains—May Piedmont—May Coastal Plain—A Soil amendment Follow recomme agricultural limes Mulch Apply 4,000 lb/ac or a mulch ancho used as a mulch Maintenance Refertilize if grow immediately follow
B	1. 2.	<b>TE NOTES:</b> CONTRACTOR SHALL LOCATE AND VERIFY THE LOCATION AND DEPTH ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONST AND NOTIFY THE ENGINEER OF ANY CONFLICTS/DISCREPANCIES. LOCATION AND TOPOGRAPHICAL INFORMATION WAS TAKEN FROM FIEL SURVEY PERFORMED BY ATLANTIC COAST SURVEY PLLC. ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL (GROUND) DISTANCES AND VERTICAL DATUM IS NAVD 88. COORDINATES AS SHOWN ARE NC GF 83 (2011). THE CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (81: 1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS BEFORE BEG ANY EXCAVATION OR UTILITY WORK TO HAVE EXISTING UTILITIES LOO CONTRACTOR SHALL ALSO OBTAIN A UNCW DIG PERMIT PRIOR TO CONTRACTOR SHALL ALSO OBTAIN A UNCW DIG PERMIT PRIOR TO	1 OF 1. UTILIT TRUCTION LOCA SURV SHOW LD ABAN R UNDE D ALTHU RID NAD POSS PHYS 1 OR 2. ALL U GINNING CATED. MINIM BE IN	TED FROM FIELD SURVEY INFO EYOR MAKES NO GUARANTEES IN COMPRISE ALL SUCH UTILIT IDONED. THE SURVEYOR FUR RGROUND UTILITIES SHOWN AI OUGH HE DOES CERTIFY THAT IBLE FROM INFORMATION AVAI ICALLY LOCATED UNDERGROUP JTILITIES TO BE RELOCATED S DESIGN TEAM. EXISTING BUILI TIMES. CONTRACTOR SHALL M IZE UTILITY SHUT DOWN DURI ISTALLED AND TESTED PRIOR	ROUND UTILITIES SHOWN HAVE ORMATION AND EXISTING DRAW S THAT THE UNDERGROUND UT TIES IN THE AREA, EITHER IN THER DOES NOT WARRANT TH RE IN THE EXACT LOCATION IN THEY ARE LOCATED AS ACC ILABLE. THE SURVEYOR HAS ND UTILITIES. SHALL BE COORDINATED WITH DINGS SHALL REMAIN FUNCTION MAKE ALL EFFORTS TO AVOID NG CONSTRUCTION. NEW UTIL TO EXISTING UTILITY SHUT DO	INGS. THE TILITIES SERVICE OR AT THE IDICATED URATELY AS NOT UNCW AND NING AT AND ITIES SHALL WN.	
	5.	PERMIT PROCESSING. THE PERMIT CAN BE FOUND AT THE UNCW W (http://www.uncw.edu/ba/facilities/Forms/dig-permit.pdf) SEE SUPPLEMENTARY GENERAL CONDITIONS FOR ALLOWABLE WORKIN HOURS AND EXCLUDED WORKING DATES.	NG SHOW OWNE	ITE PRIOR TO DEMOLITION. CONTRACTOR SHALL PERFORM IN ON THESE PLANS AND SPE	RIFY AND LOCATE ALL EXISTIN I DEMOLITION ACTIVITIES AS N ECIFICATIONS AND AS DIRECTE	OTED AND	
	6.	ALL MATERIALS, CONSTRUCTION, WORKMANSHIP SHALL MEET PROJEC SPECIFICATIONS FOR STANDARDS AND DESIGN.	AND	PAY FEES REQUIRED FOR DEM	SPONSIBILITY TO OBTAIN ANY MOLITION AND HAUL-OFF FROM	1 THE	

- CONTRACTOR SHALL COMPLY WITH AND THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY PAVEMENT OR EXISTING UTILITIES THAT MAY BE DAMAGED DUE TO CONSTRUCTION ACTIVITY. EXERCISE CAUTION.
- ALL UTILITIES SHALL BE PROTECTED AND REMAIN ACTIVE UNLESS 9. OTHERWISE NOTED.
- 10. EXISTING IMPROVEMENTS SLATED TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE AT NO COST TO THE OWNER.
- 11. THE CONTRACTOR MAY USE BORROW MATERIAL FROM A "COMMERCIAL SOURCE" WHICH HAS BEEN APPROVED BY NCDEQ LAND QUALITY SECTION. CONTRACTOR SHALL FURNISH THE PERMIT NUMBER (TO THE UNIVERSITY REPRESENTATIVE) ON THE COMMERCIAL SOURCE WHICH WILL BE USED TO PROVIDE FILL FOR THE PROJECT.
- 12. SPOT ELEVATIONS HAVE BEEN PROVIDED THROUGHOUT THE SITE TO ENSURE THAT STORMWATER FLOWS TO STORM DRAINAGE NETWORK. CONTRACTOR IS RESPONSIBLE FOR ENSURING CORRECT PLACEMEN SPILL CURB AS INDICATED ON THE PLANS AND PERFORM THE NECESSARY FRANSITIONS TO ACHIEVE SPILL CURB. ANY GRADE MODIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE FIELD CHANGES ARE MADE.
- 13. EXISTING CONDITIONS FOR STAGE 2 CONSTRUCTION WILL BE DIFFERENT FROM WHAT IS SHOWN ON THE EXISTING CONDITIONS SURVEY. SITE WILL BE CLEARED. WITH THE EXCEPTION OF A 20' BUFFER AROUND THE EXISTING TOWNHOMES ADJACENT TO THE WESTERN LOT, AND EROSION CONTROL MEASURES WILL BE IN PLACE.
- 14. CONTRACTOR MAY NOT ENCROACH WITHIN THE RIGHT-OF-WAY OF MACMILLAN AVENUE UNTIL ALL APPROVALS HAVE BEEN RECEIVED.
- 15. CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS ISSUED BY EPA, NATIONAL FIRE PREVENTION AGENCY, US DEPARTMENT OF LABOR OCCUPATIONAL, SAFETY, AND HEALTH ADMINISTRATION, AND ANY OTHER STATE, LOCAL, AND FEDERAL AGENCIES GOVERNING FUELING. FUEL STORAGE, AND MAINTENANCE OF CONSTRUCTION EQUIPMENT. UNCW SHALL BE PROVIDED SHOP DRAWINGS ON FUEL CONTAINMENT AND REFUELING FACILITIES. CONTRACTOR SHALL NOT MOBILIZE REFUELING EQUIPMENT UNTIL UNIVERSITY APPROVAL HAS BEEN GRANTED.

- JPRIATE AUTHORITIES. THESE FEES ARE TO BE INCLUDED WITH TH BID. THE CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND ACQUIRE APPROPRIATE PERMITS AS REQUIRED PRIOR TO THE COMMENCEMENT OF DEMOLITION.
- 6. 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.
- 7. CONTRACTOR SHALL COMPLETELY DEMOLISH ALL EXISTING IMPROVEMENTS NOTED FOR REMOVAL ON THE APPROVED DEMOLITION PLAN. THIS INCLUDES, AS NECESSARY, FOUNDATIONS AND OTHER APPURTENANCES LOCATED ON AND AROUND THE IMPROVEMENTS SUCH AS SIGNS. CURBS. PAVEMENT SIDEWALKS, ETC. ALL REMOVED MATERIAL SHALL BE DISPOSED OF OFFSITE IN A LAWFUL MANNER OR RECYCLED. IF POSSIBLE, CONTRACTOR SHALL MAKE EVERY ATTEMPT TO RECYCLE ANY DEBRIS AND RUBBISH THAT IS RECYCLABLE.
- 8. 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. CONTRACTOR SHALL INSTALL ALL REMAINING TEMPORARY CONSTRUCTION FENCING. EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION WORK. CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS AND CARE TO PRESERVE TREES DURING CONSTRUCTION.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
- 11. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR.
- 12. TEMPORARY CONSTRUCTION FENCING TO INCLUDE SCREENING FABRIC OR PRIVACY SLATS.
- 13. PRIOR TO SUBMITTING BID, CONTRACTOR TO VISIT SITE AND VERIFY EXISTING CONDITIONS.
- 14. GEOTECHNICAL ENGINEER SHALL EVALUATE THE CONDITION OF THE EXISTING PAVEMENT WHERE SPEED HUMP/CROSSWALK AND CROSSWALK WILL BE INSTALLED. CONTRACTOR SHALL FOLLOW GUIDANCE FROM GEOTECHNICAL ENGINEER ON WHETHER EXISTING PAVEMENT IS SUITABLE FOR PROPOSED CROSSINGS. IF PAVEMENT IS DETERMINED TO BE INADEQUATE, CONTRACTOR SHALL SAWCUT, REMOVE AND REPLACE SECTION.

## <u>ALL WORK WITHIN MACMILLAN RIGHT-OF-WAY:</u>

- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING. 2. ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT
- CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS. 3. NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE
- FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS. 4. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR
- NCDOT STANDARDS. 5. ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING REGARDING THE INSTALLATION OF TRAFFIC AND STREET NAME
- SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- 8. CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY. 9. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- 10. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE 11. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
- 12. STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION. 13. TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- 14. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. 15. ANY BROKEN OR MISSING SIDEWALK PANELS WILL BE REPLACED.
- 16. CONTACT TRAFFIC ENGINEERING AT (910-341-7888) TO DISCUSS STREET LIGHTNING OPTIONS.
- 17. WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS. 18. PROJECT SHALL COMPLY WITH CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL
- REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910-343-3910 FOR INFORMATION. 19. IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A
- REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX. 20. ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REGULATIONS. CALL
- 919-343-3910 FOR INFORMATION. 21. ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- 22. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCCCHR OR ASSE.
- 23. CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
- 24. CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION. 25. UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696. 26. NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
- 27. CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING, OR GRADING.

			201000		
Table 6.10b ary Seeding idations for	Seeding mixture Species German millet	Rate (Ib/acre) 40	Table 6.10c Temporary Seeding Recommendations for Fall		Rat
Summer		a small-stemmed Sudangrass may be		Seeding dates Mountains—Aug, 15 - Dec. 15 Coastal Plain and Piedmont—Aug	a. 15 - Dec. 30
	Seeding dates Mountains—May 15 - Aug. 15 Piedmont—May 1 - Aug. 15			Soil amendments Follow soil tests or apply 2,000 l and 1,000 lb/acre 10-10 fertiliz	•

Rate (lb/acre)

Ib/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer. Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance Repair and refertilize damaged areas immediately. Topdress with 50 Ib/acre of nitrogen in March. If it is necessary to extent temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.

## EROSION CONTROL NOTES:

Soil amendments

Coastal Plain-Apr. 15 - Aug. 15

used as a mulch anchoring tool.

Follow recommendations of soil tests or apply 2,000 lb/acre ground

Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting,

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch

or a mulch anchoring tool. A disk with blades set nearly straight can be

agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

immediately following erosion or other damage.

- NEW EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AS SHOWN ON PLANS AND INSPECTED PRIOR TO ANY GRADING ON SITE. MAINTENANCE AND REPAIR SHALL BE MADE, AS NECESSARY, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CALL FOR AN INSPECTION ONCE INITIAL MEASURES ARE IN PLACE.
- SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
- 3. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
- 4. INSTALL A RAIN GAUGE (6" CAPACITY OR GREATER) ONSITE.
- 5. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
- 6. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE EROSION CONTROL PERMIT AND IS SUBJECT TO A FINE. ANY NEED TO DISTURB BEYOND THE APPROVED PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER, ENGINEER AND EROSION CONTROL INSPECTOR.
- 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, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PERMANENT GROUNDCOVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN. ALL GRADED SLOPES STEEPER THAN 3:1 MUST BE SEEDED & COMPOST LAID WITHIN 7 DAYS OF COMPLETION OF GRADING. ALL REMAINING DISTURBED AREAS ARE TO BE SEEDED AND COMPOST LAID WITHIN 14 DAYS. PERMANENT SWALES ARE TO BE STABILIZED WITHIN 7 DAYS. SEE THE GROUND STABILIZATION CHART FOR ADDITIONAL REQUIREMENTS.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY REPRESENTATIVE OF THE NCDEQ DEMLR DEPARTMENT. ADDITIONAL SILT FENCE OUTLETS AT LOW AREAS MAY BE INSTALLED BY CONTRACTOR AS REQUIRED.
- INSTALLATION AND MAINTENANCE OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER. TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE NCDEQ DEMLR INSPECTOR AND THE ENGINEER OR THE OWNER'S REPRESENTATIVE.
- 10. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
- 11. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN
- 12. REQUIRED CONSTRUCTION/SAFETY FENCING SHALL BE INSTALLED PRIOR TO BEGINNING LAND DISTURBANCE.
- 13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP ALL SEDIMENT ON SITE AND ENSURE NO SEDIMENT LEAVES THE LIMITS OF DISTURBANCE OF THE PROJECT. THIS MAY REQUIRE INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES ABOVE AND BEYOND WHAT IS SHOWN ON THE PLANS. IF ENVIRONMENTAL OR SITE CONDITIONS WARRANT ADDITIONAL EROSION CONTROL MEASURES, CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM UNIVERSITY REPRESENTATIVE FROSION CONTROL MEASURES DAMAGED OR REQUIRED DUE TO CONTRACTOR ACTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION AT NO ADDITIONAL COST TO THE UNIVERSITY.
- 14. ALL CONSTRUCTION DEBRIS SHALL BE TESTED AND DISPOSED OF OFF-SITE IN A STATE PERMITTED LINED LANDFILL.
- 15. AS PROJECT SITE IS FLAT, MINIMAL DRAINAGE TO SEDIMENT BASINS WILL INITIALLY OCCUR. CONTRACTOR SHALL MAINTAIN AND ADJUST TEMPORARY DIVERSIONS AS FILL IS INSTALLED DURING FUTURE STAGES OF CONSTRUCTION SUCH THAT DISTURBED AREA DRAINS TO THE BASINS.

#### **GENERAL NOTES:**

- 1. NO CONSTRUCTION SHALL TAKE PLACE DURING THE FOLLOWING UNIVERSITY EVENTS: COMMENCEMENT WEEKEND (MAY 4-MAY 5) AND MOVE IN WEEKEND (AUGUST 18TH-19TH) 2018.
- 2. CONTRACTOR SHALL POST SIGNAGE AT THE CONSTRUCTION ENTRANCES STATING "CONSTRUCTION ENTRANCE ONLY. KEEP OUT. [INCLUDING THE COMPANY/CONTRACTOR NAME]"
- 3. CONTRACTOR SHALL INCLUDE NO HARASSMENT SIGNAGE AT LOCATIONS DIRECTED BY UNCW.
- CONTRACTOR SHALL INCLUDE "CONSTRUCTION ZONE, KEEP OUT" SIGNAGE EVERY 50 FEET ALONG THE ENTIRE PROJECT BOUNDARY.
- CONTRACTOR MAY NOT STAGE DELIVERIES ON THE EXISTING ROADWAY. CONTRACTOR MUST PROVIDE APPROPRIATE SIGNAGE AND FLAG PERSON IF A TRAFFIC OBSTRUCTION CANNOT BE AVOIDED.
- 6. UNCW REPRESENTATIVE SHALL OBTAIN A PERMIT FROM THE US FISH AND WILDLIFE SERVICES TO RELOCATE THE FISH FROM THE EXISTING POND ON-SITE PRIOR TO DRAWING THE WATER LEVEL DOWN. CONTRACTOR SHALL FOLLOW ALL GUIDELINES AND REQUIREMENTS STIPULATED BY THE PERMIT. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING FISH POPULATION IN THE EXSITING POND.
- 7. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJEC<sup>®</sup>

#### STORM READY RESPONSIBILITIES:

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- 1. LEAVE ALL SITES WITH LAND DISTURBING ACTIVITY IN A "STORM READY STATE". CONTRACTORS SHOULD CONDUCT EXTRA INSPECTIONS TO ENSURE BMPS ARE IN PLACE BEFORE THEY LEAVE THE PROJECT SITE FOR THE
- 2. ENSURE SEDIMENT BASINS OR CONTAINMENTS HAVE ENOUGH FREEBOARD TO ACCOMMODATE HEAVY RAINS WITHOUT OVERFLOWING.
- 3. ONCE THE RAIN PASSES, ENSURE OPERATORS INSPECT AND DRAIN CONTAINMENTS AS NECESSARY. BASINS SHALL BE DRAINED BY SKIMMERS OR OTHER ALLOWABLE MEASURES. PUMP OPERATIONS ARE CONTRACTOR CONTROLLED AND WATER QUALITY RULES APPLY. CONTRACTOR SHOULD UTILIZE SILT/DIRT BAGS AND FLOC LOGS IF NECESSARY. IF COLLECTED WATER IS SIGNIFICANTLY TURBID, CONSIDER A SLOW RELEASE RATE TO MINIMIZE ANY WATER QUALITY IMPACTS.
- 4. ONCE THE RAIN PASSES, INSPECT THE SITE AND ANY EROSION CONTROL MEASURES TO ENSURE THERE HAVE NO SEDIMENT RELEASES. REPAIR AND RETURN TO DESIGN CONDITION ANY EROSION CONTROL MEASURES OR
- 5. IF THERE IS POTENTIAL FOR GUSTY OR HIGH WINDS, MAKE SURE THAT ALL PORTABLE EQUIPMENT IS PROPERLY STORED OR TIED DOWN. THIS

## STORMWATER MONITORING:

- THE PERMITTEE SHALL INSPECT ALL EROSION AND SEDIMENTATION CONTROL FACILITIES EVERY SEVEN DAYS AND WITHIN 24 HOURS OF A 0.5 INCH OR GREATER RAINFALL. FINDINGS SHALL BE RECORDED AND PRESENTED UPON INSPECTOR'S REQUEST.
- 2. THE CONTRACTOR SHALL PROVIDE RAIN-RECORDING DEVICE AND RECORD EACH RAINFALL.
- 3. ANY FAILURES THAT CAUSE VISIBLE SEDEMENTATION TO LEAVE THE APPROVED DISTURBED LIMITS SHALL BE CORRECTED IMMEDIATELY AND DOCUMENTED.
- 4. A COPY OF THE NPDES PERMIT AND STORM WATER RECORDS SHOULD BE KEPT ON SITE FOR REFERENCE AND ACCESSIBLE TOREVIEWING AGENCIES.

#### GRADING AND DRAINAGE NOTES:

- 1. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING UNDER. AROUND, AND/OR ADJACENT TO EXISTING POWER LINES.
- 2. STORM DRAINAGE PIPE SHALL BE CLASS IV RCP MIN. UNLESS OTHERWISE NOTED.
- 3. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.
- 4. PROPOSED CONTOURS AND SPOT ELEVATIONS ARE FINISHED GRADE ELEVATIONS (TOP OF STONE, TOP OF GRASS, ETC.) UNLESS OTHERWISE NOTED
- 5. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. REFER TO SPECIFICATIONS MANUAL SECTION 312000 EARTHMOVING.
- 6. CONTRACTOR SHALL MILL EXISTING HURST DRIVE AS NECESSARY TO BLEND BUS TURN-OFF ROAD WIDENING.
- 7. SPILL CURB HAS BEEN INDICATED ON GRADING AND DRAINAGE PLAN. HOWEVER. CONTRACTOR SHALL ENSURE THAT ALL CURB AND GUTTER DRAINS TO STORM DRAINAGE NETWORK AND MAY MAKE MODIFICATIONS AS NECESSARY. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY GRADE REVISIONS BEFORE MAKING CHANGES.
- 8. THE CONTRACTOR SHALL COORDINATE WITH THE HIRED/ENGAGED GEOTECHNICAL ENGINEER FOR NECESSARY OBSERVATIONS AND TESTING NECESSARY TO PROVIDE AN ENGINEER CERTIFICATION OF ALL RETAINING
- 9. CONTRACTOR SHALL REFER TO BYPASS PUMP AROUND DETAIL AND SPECIFICATION SECTION 312319 WHEN INSTALLING PIPE CULVERTS IN THE EXSITING DITCHES IF WATER IS PRESENT.

## SCO # 17-17725-01



INCLUDES LIGHT EQUIPMENT OR SIMILAR EQUIPMENT WHICH COULD BLOW OVER IF THE MAST IS NOT LOWERED AS WELL AS PORTABLE TOILETS THAT COULD TIP OVER IF NOT TIED DOWN OR SECURED.

#### STAGE 2 EROSION CONTROL NARRATIVE:

UNC-WILMINGTON HURST HAMILTON PARKING LOTS - STAGE 2 WILMINGTON, NORTH CAROLINA RECEIVING STREAM - UNNAMED TRIBUTARY TO BRADLEY CREEK CLASSIFICATION - SC: HQW

PROJECT NUMBER: UNW-17060 DESIGNED BY: RAVINDRA BISSRAM, PE

#### **PROJECT DESCRIPTION:**

PROJECT CONSIST OF CONSTRUCTING TWO PARKING LOTS SURROUNDED BY HURST DRIVE, HAMILTON DRIVE, AND MACMILLAN AVENUE. THE PROJECT WILL BE BROKEN INTO TWO STAGES; AN INITIAL STAGE OF INSTALLING EROSION CONTROL MEASURES ALONG WITH CLEARING AND GRUBBING (ALREADY COMPLETED), AND THEN PARKING LOT CONSTRUCTION WHICH INCLUDES THE ADDITION OF INCIDENTAL EROSION CONTROL MEASURES, GRADING, AND INFRASTRUCTURE IMPROVEMENTS. EROSION CONTROL MEASURES INSTALLED DURING STAGE 1 SHALL BE MAINTAINED AS PART OF STAGE 2 UNTIL THE SITE IS STABILIZED.

#### STAGE 2 CONSTRUCTION SEQUENCE:

- 1. INSTALL REMAINING EROSION CONTROL MEASURES FOR THE PARKING LOTS ALONG HURST DRIVE, HAMILTON DRIVE, AND MACMILLAN AVENUE, SIDEWALK INSTALLATION ALONG MACMILLAN AVENUE, AND THE BUS TURN-OFF AREAS ALONG HURST DRIVE. A 20' TREE BUFFER ALONG THE APARTMENTS PROPERTY LINE SHALL REMAIN UNTIL IT IS NECESSARY TO CLEAR FOR PARKING INSTALLATION.
- 2. INSTALL STORM DRAINAGE CULVERTS IN THE EXISTING DRAW PRIOR TO FILL INSTALLATION. FOLLOW PIPING SEQUENCE FOR BYPASS PUMPING DURING INSTALLATION.
- 3. STRIP AND STOCKPILE TOPSOIL FROM AREAS OF PROPOSED GRADING. CONTRACTOR SHALL ALSO SEPARATE, INTO A SEPARATE STOCKPILE, ANY SOIL DEEMED RE-USABLE ON-SITE FOR STRUCTURAL FILL OR OTHER (AS DETERMINED BY UNCW REPRESENTATIVES AND / OR THE ON-SITE GEOTECHNICAL ENGINEER). STOCKPILES SHALL BE PROTECTED (ENCIRCLED) WITH SILT FENCE. STOCKPILE SIZES AND LOCATIONS MUST BE MINIMIZED DUE TO THE LIMITED STORAGE AREA. ANY UNUSED MATERIAL FROM THE TOPSOIL STOCKPILE SHALL BE REMOVED FROM SITE AND DISPOSED OF PROPERLY AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO DETERMINE STOCKPILE LOCATIONS ON-SITE DUE TO LIMITED STORAGE AREA AND EXISTING SURROUNDING VEGETATION.
- 4. BEGIN FILLING PARKING LOT SITE. AS FILL IS BROUGHT IN, ADJUST TEMPORARY DIVERSIONS SUCH THAT POSITIVE DRAINAGE TO THE SEDIMENT BASINS OCCUR.
- 5. INSTALL STORM DRAINAGE WITH INLET PROTECTION.
- 6. MASS GRADE PARKING LOT AREAS AND CONSTRUCT STORMWATER MANAGEMENT FACILITY IMPROVEMENTS PER CONSTRUCTION DRAWINGS. DURING CONSTRUCTION FILL, CONTRACTOR SHALL FOLLOW ANY ADDITIONAL GUIDELINES/CRITERIA AS INDICATED BY THE GEOTECHNICAL ENGINEER. AREAS IN THE VICINITY OF SEDIMENT BASINS SHALL BE FILLED LAST.
- 7. FINE GRADE PARKING LOTS AND OTHER SITE AREAS AS SHOWN ON CONSTRUCTION DRAWINGS, STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, STONE, CONCRETE, ETC. ONCE AREAS DRAINING TO SEDIMENT BASINS ARE STABILIZED, CONTACT THE EROSION CONTROL INSPECTOR TO REMOVE BASINS TO BEGIN FILLING PARKING LOT IN THAT AREA. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO NCDEQ PRIOR TO REMOVAL OF SEDIMENT BASINS.
- 8. FILL AND STONE PARKING LOT IN THE SEDIMENT BASIN AREAS.
- 9. PAVE THE PARKING LOTS.

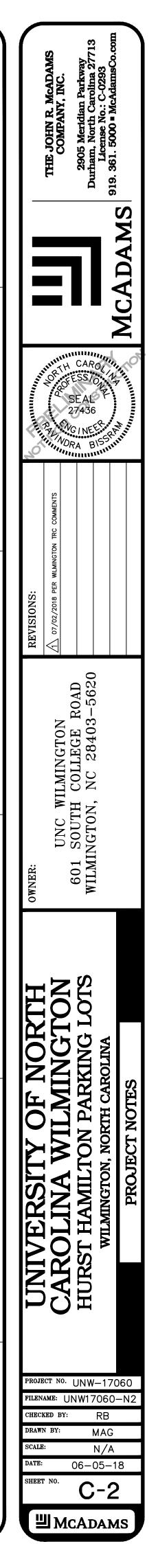
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- 10. STABILIZE ANY REMAINING AREAS AND INSTALL ALL REMAINING PERMANENT EROSION CONTROL MEASURES INCLUDING ENERGY DISSIPATORS.
- 11. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL FOR INSPECTION BY NCDEQ, THE OWNER, AND ENGINEER.
- 12. IF SITE IS APPROVED, REMOVE ANY OTHER TEMPORARY EROSION CONTROL MEASURES AND SEED SOD AND PLANT ANY RESULTING BARE AREAS.
- 13. WHEN VEGETATION HAS BECOME ESTABLISHED (SEE SEEDING/FERTILIZER NOTES BELOW), CALL FOR FINAL SITE INSPECTION BY ENGINEER.

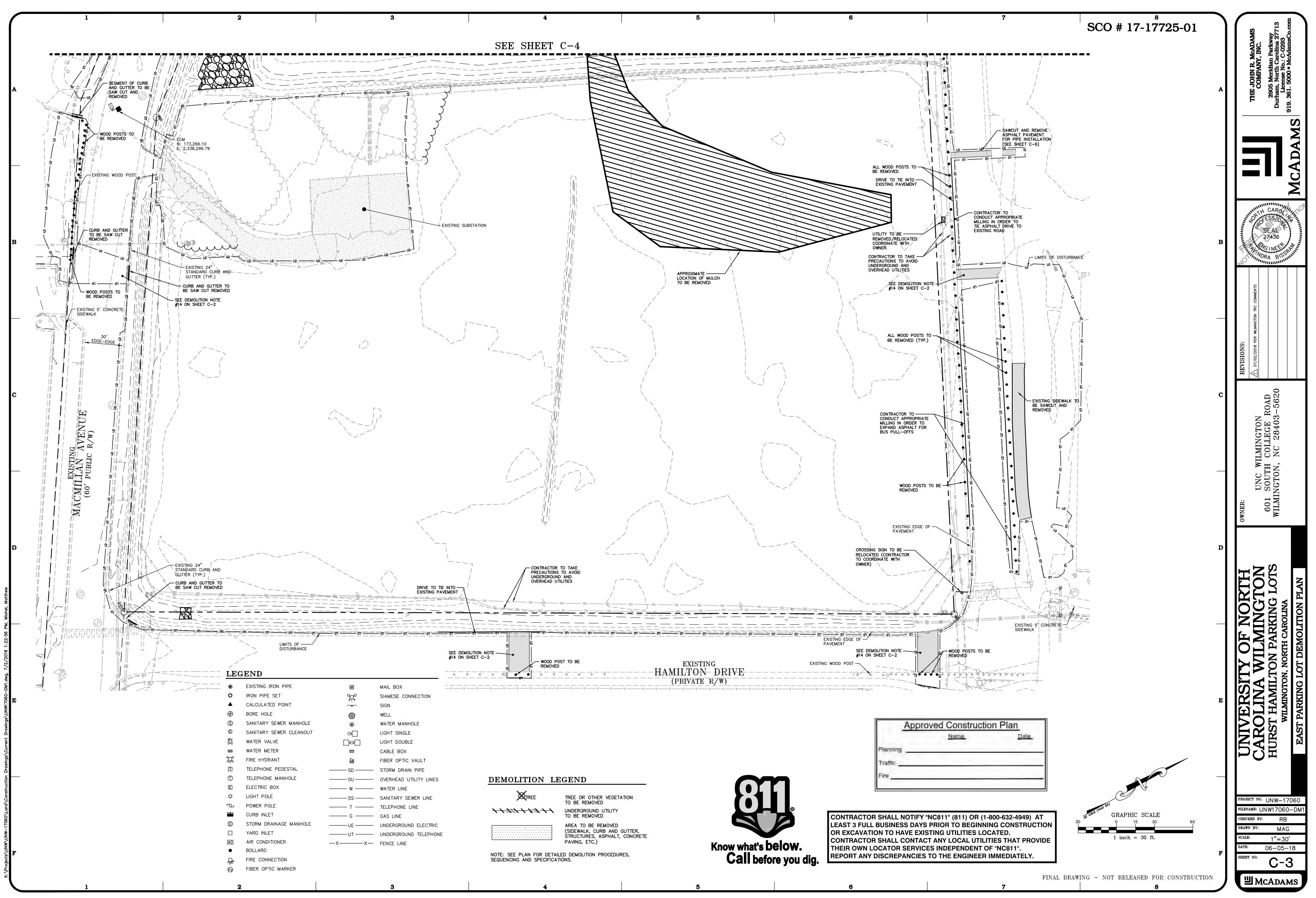
#### SEEDBED PREPARATION & PERMANENT SEEDING SCHEDULE:

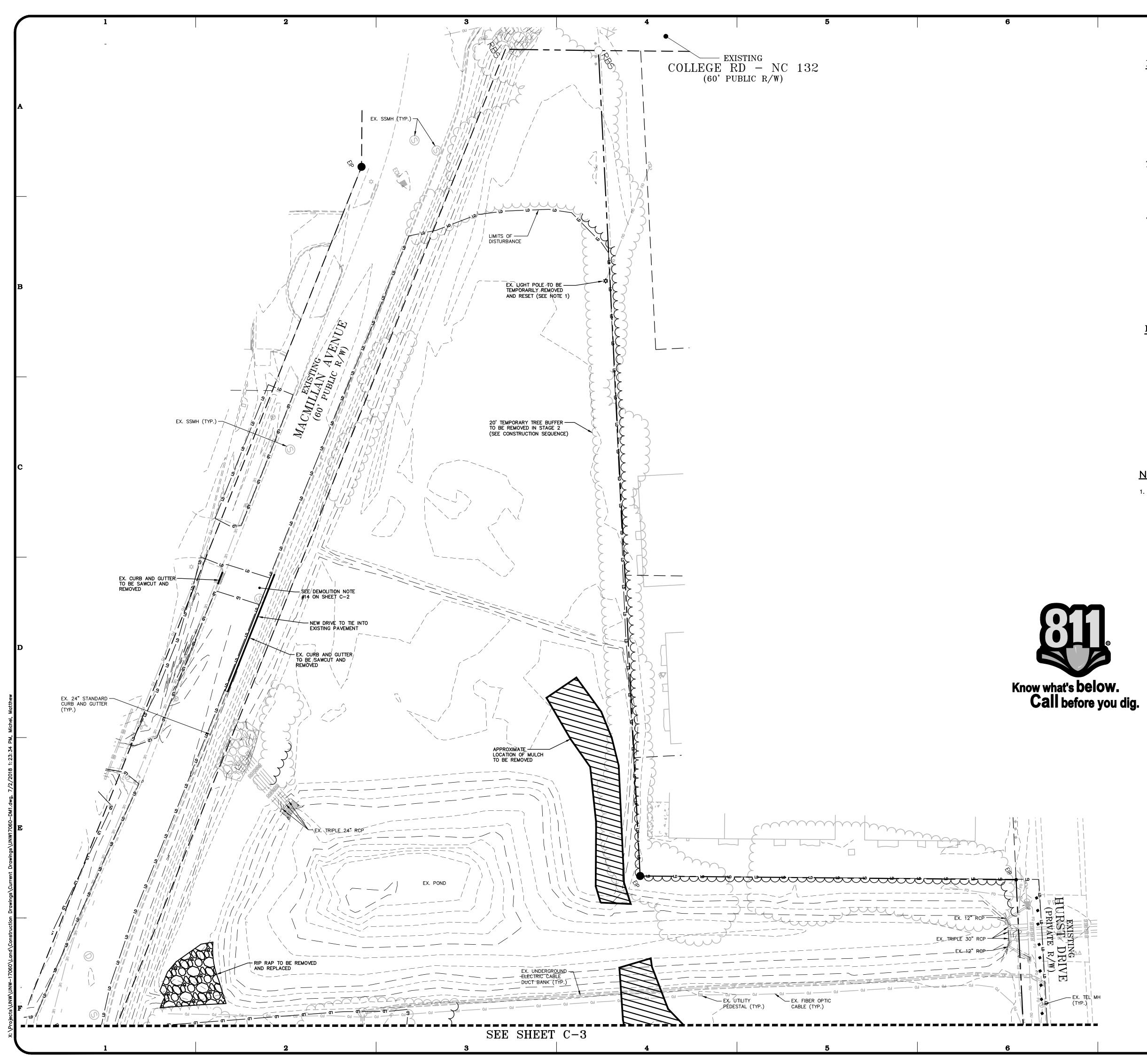
REFER TO STANDARD SPECIFICATION SECTIONS 329200 AND 329300

GROUND STABILIZATION			
SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS	
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE	
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE	
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED	
SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH	
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)	



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- EXISTING IRON PIPE М MAIL BOX 000 1 IRON PIPE SET 0 SIAMESE CONNECTION CALCULATED POINT SIGN <del>\_\_\_</del>  $\oplus$ BORE HOLE WELL SANITARY SEWER MANHOLE S WATER MANHOLE W SANITARY SEWER CLEANOUT C 여\_\_\_ LIGHT SINGLE WATER VALVE LIGHT DOUBLE WATER METER CABLE BOX  $\boxtimes$ ЪС FIRE HYDRANT Æg FIBER OPTIC VAULT Т TELEPHONE PEDESTAL  $\bigcirc$ TELEPHONE MANHOLE ------OU ------- OVERHEAD UTILITY LINES E ELECTRIC BOX ------ W ------ WATER LINE LIGHT POLE ¢ ပ် POWER POLE ------ T ------ TELEPHONE LINE CURB INLET G G GAS LINE D STORM DRAINAGE MANHOLE UNDERGROUND ELECTRIC YARD INLET UNDERGROUND TELEPHONE AC AIR CONDITIONER —X———X— FENCE LINE
- BOLLARD • FIRE CONNECTION  $\mathcal{A}$
- FIBER OPTIC MARKER Ð

## DEMOLITION LEGEND

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TREE OR OTHER VEGETATION TO BE REMOVED UNDERGROUND UTILITY TO BE REMOVED AREA TO BE REMOVED (SIDEWALK, CURB AND GUTTER, STRUCTURES, ASPHALT, CONCRETE PAVING, ETC.)

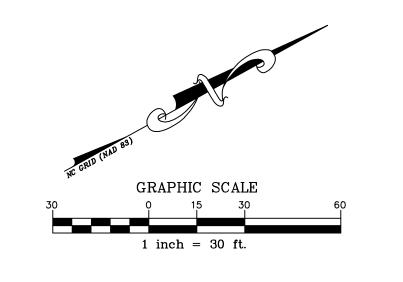
NOTE: SEE PLAN FOR DETAILED DEMOLITION PROCEDURES, SEQUENCING AND SPECIFICATIONS.

## NOTE:

THE UNIVERSITY REPRESENTATIVE SHALL CONTACT THE APARTMENT COMPLEX MANAGEMENT IN REGARDS TO THE REMOVAL AND REPLACEMENT OF THE EXISTING LIGHT POLE.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

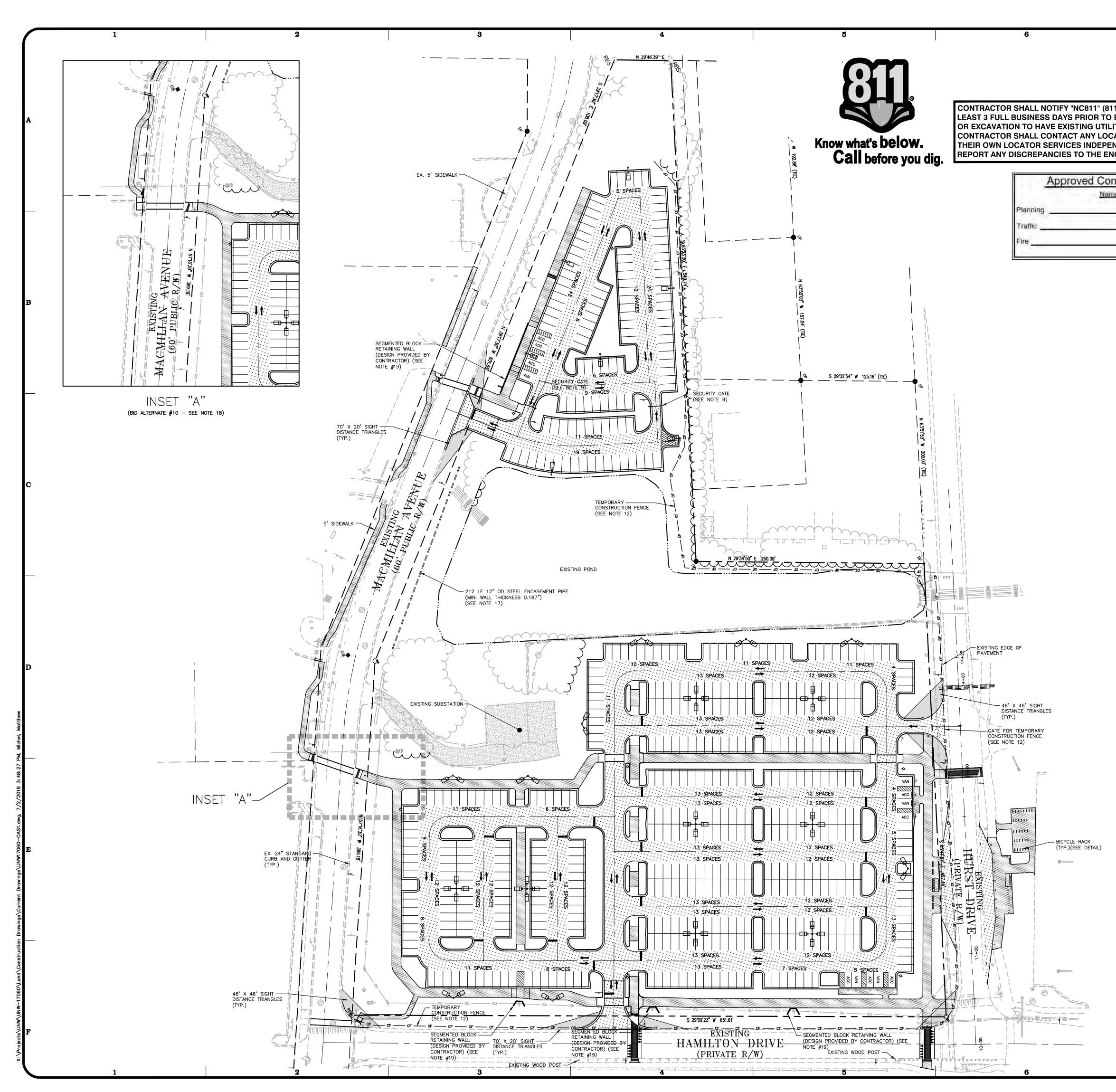
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A	THE JOHN R. MCADAMS COMPANY, INC.2905 Meridian Parkway Durham, North Carolina 27713 License No.: C-0293 919. 361. 5000 • McAdamsCo.con
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	IIVERSITY OF NORTH ROLINA WILMINGTON RST HAMILTON PARKING LOTS WILMINGTON, NORTH CAROLINA EST PARKING LOT DEMOLITION PLAN
E	UNIVERSITY CAROLINA V HURST HAMILTC WILMINGTON, N
F	PROJECT NO. UNW-17060 FILENAME: UNW17060-DM1 CHECKED BY: RB DRAWN BY: MAG SCALE: 1"=30' DATE: 06-05-18 SHEET NO. C-4

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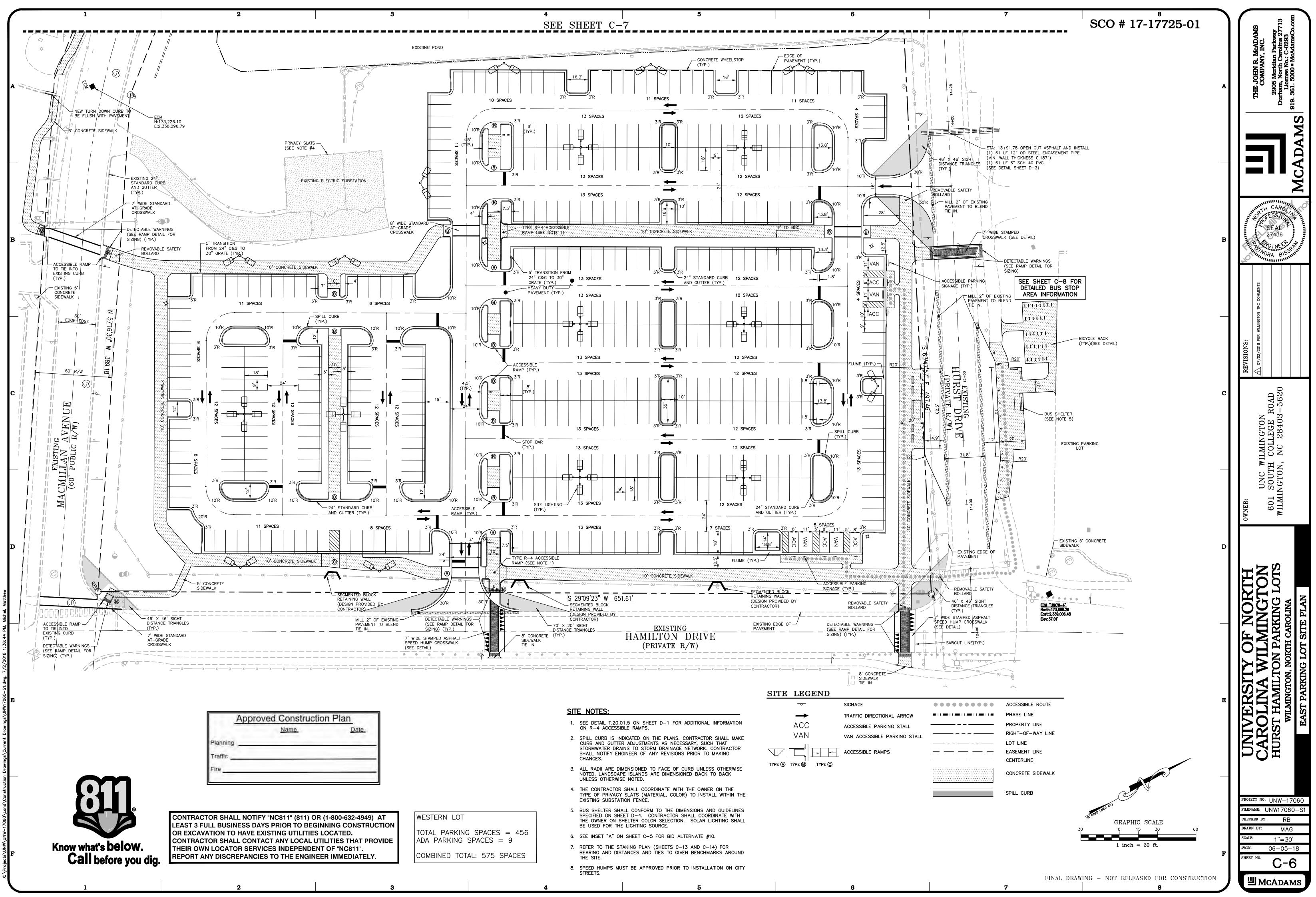
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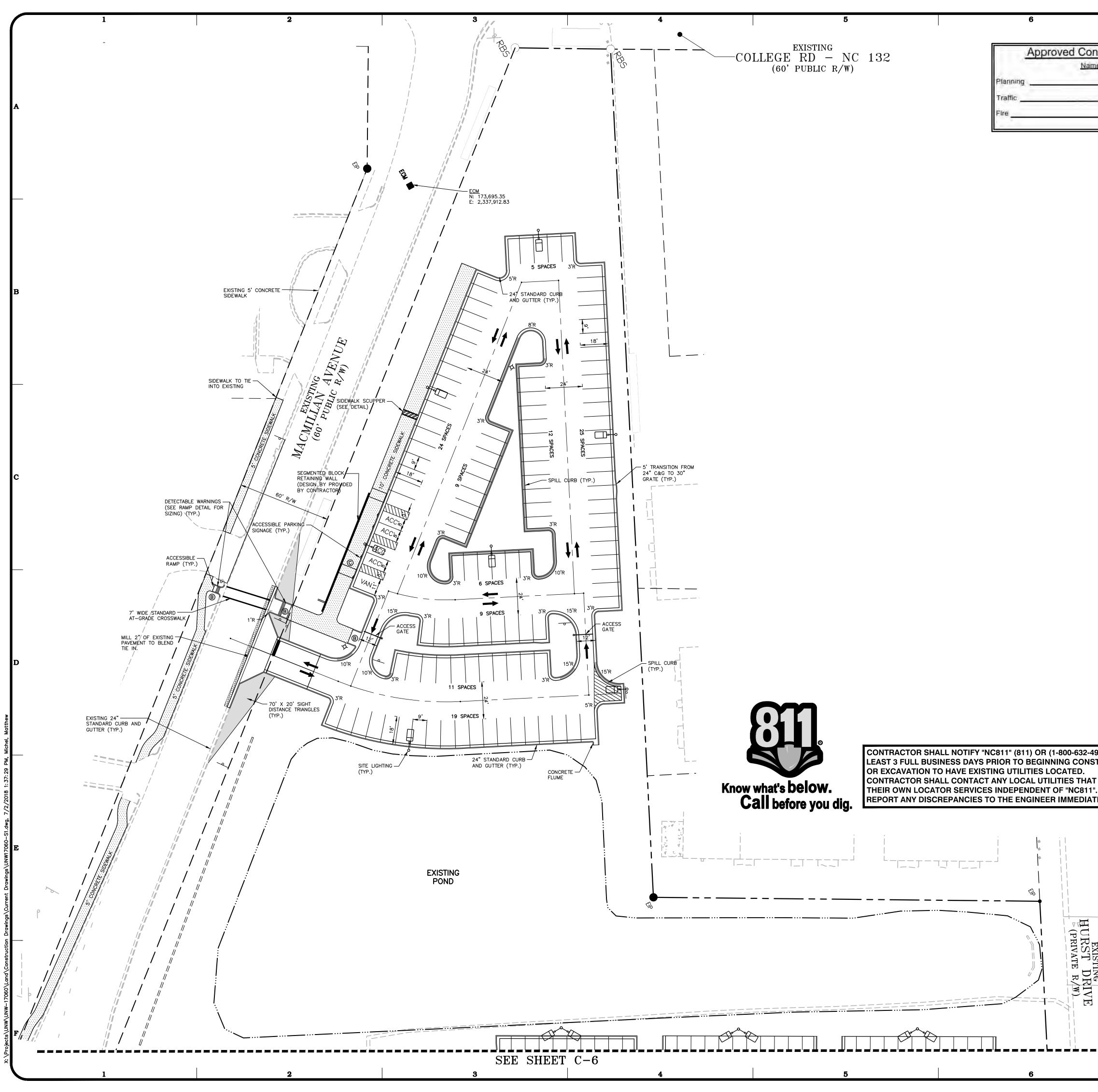
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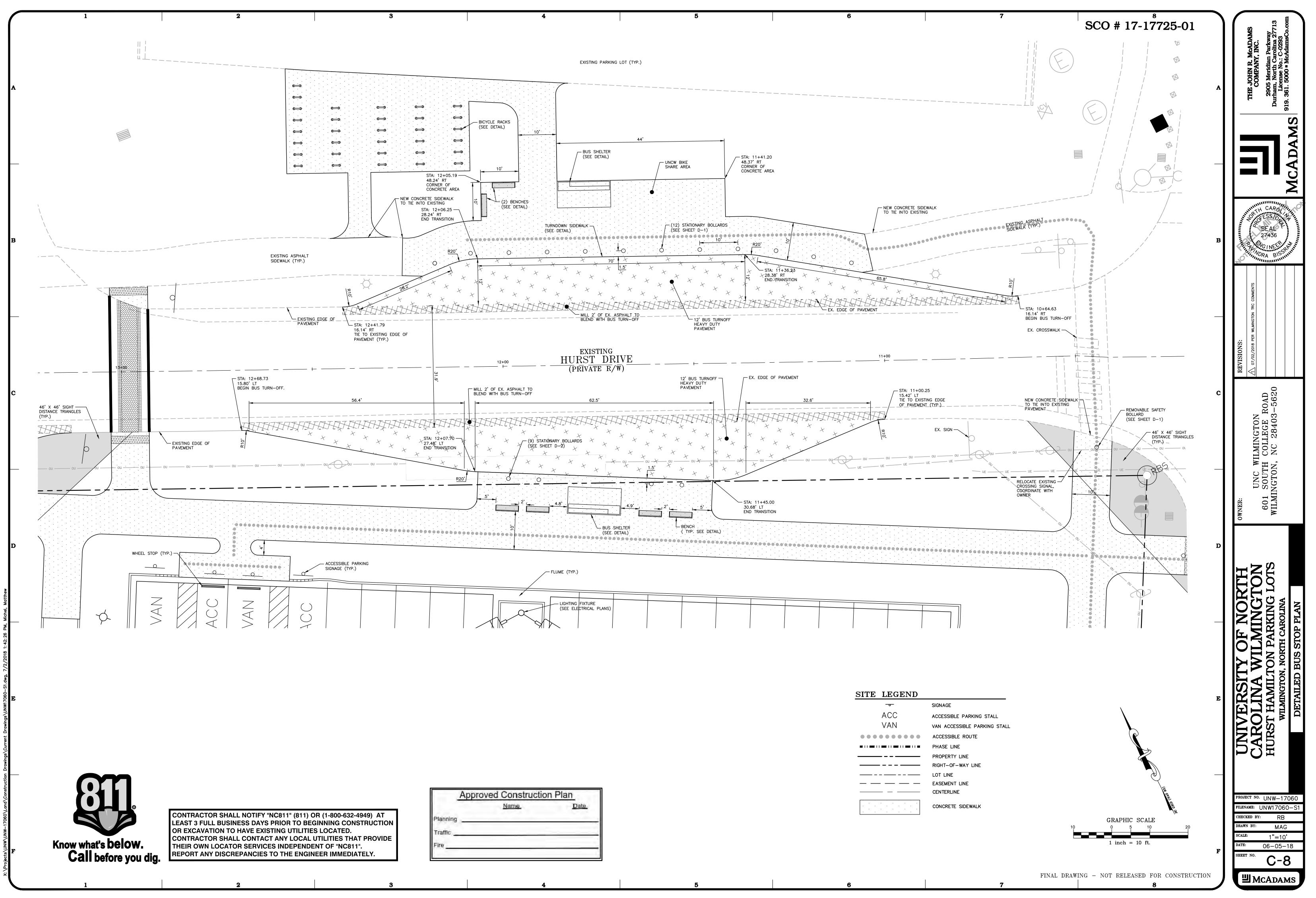
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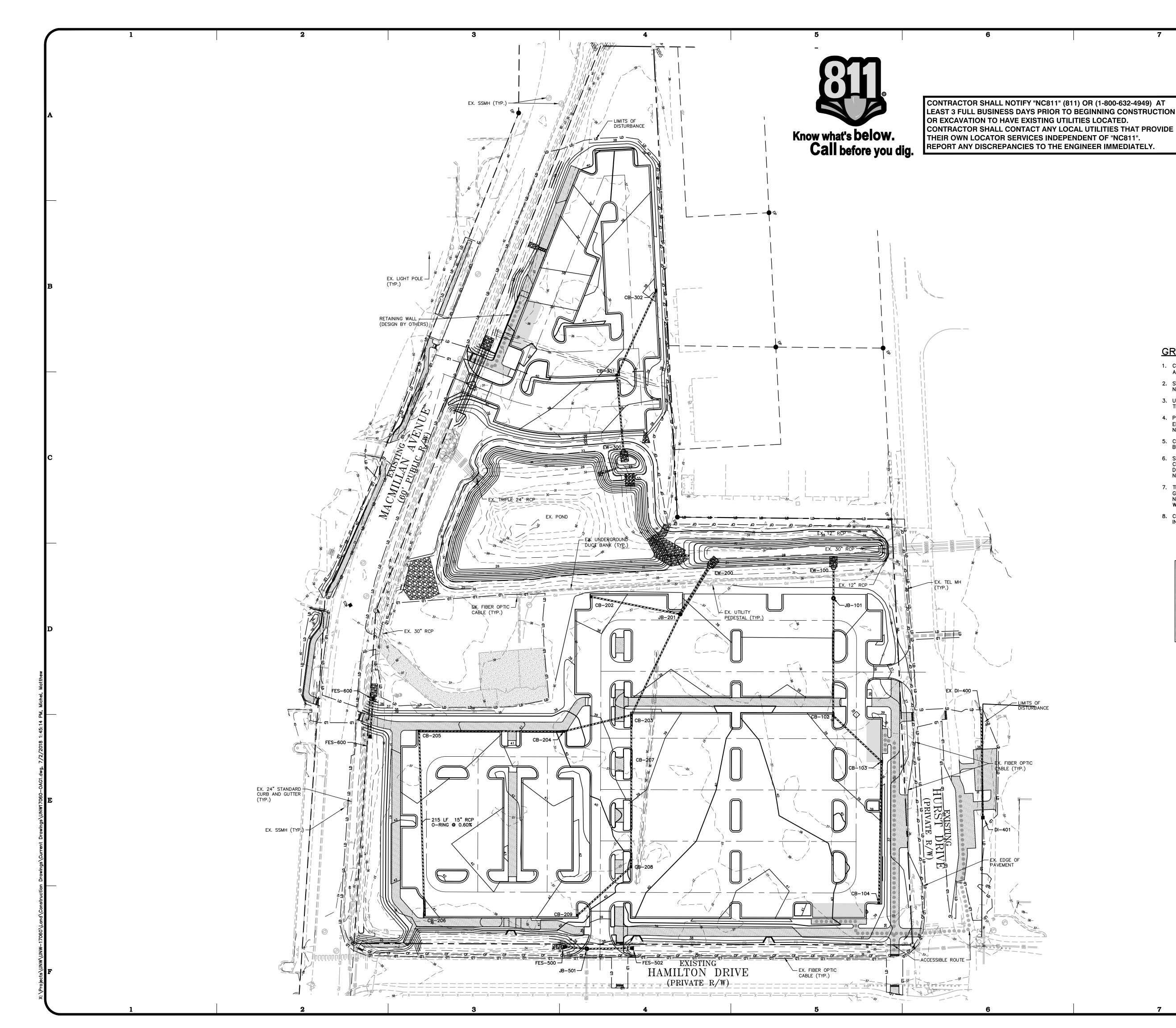
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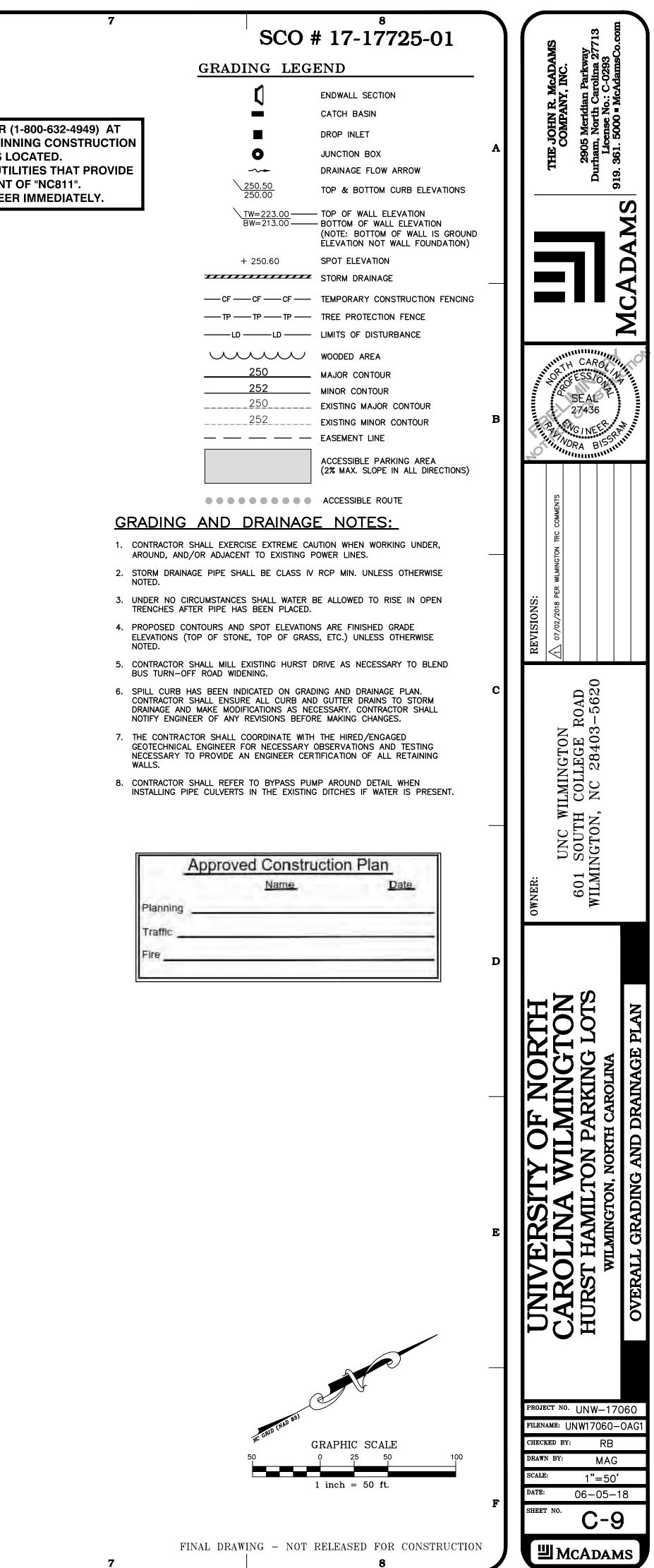


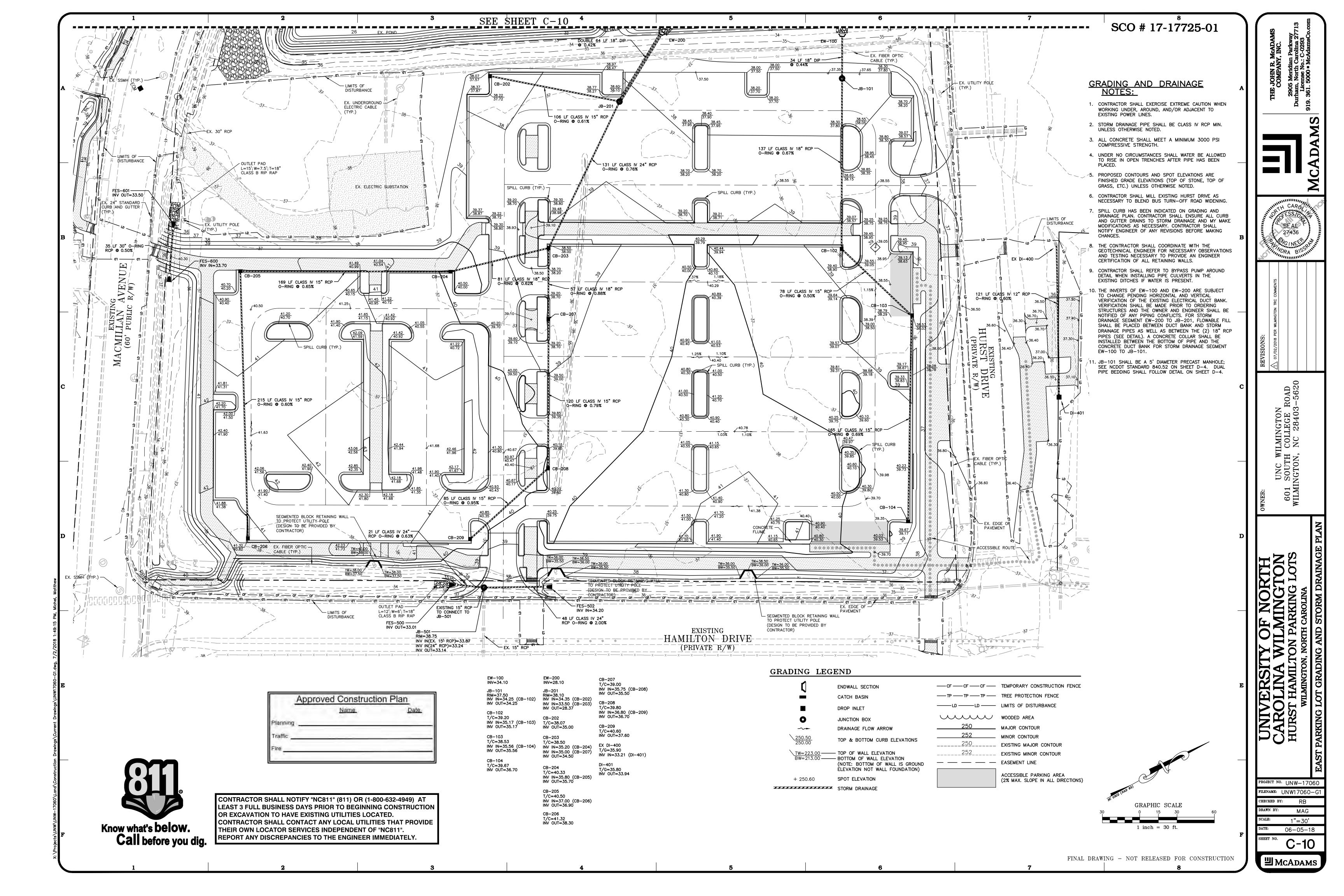


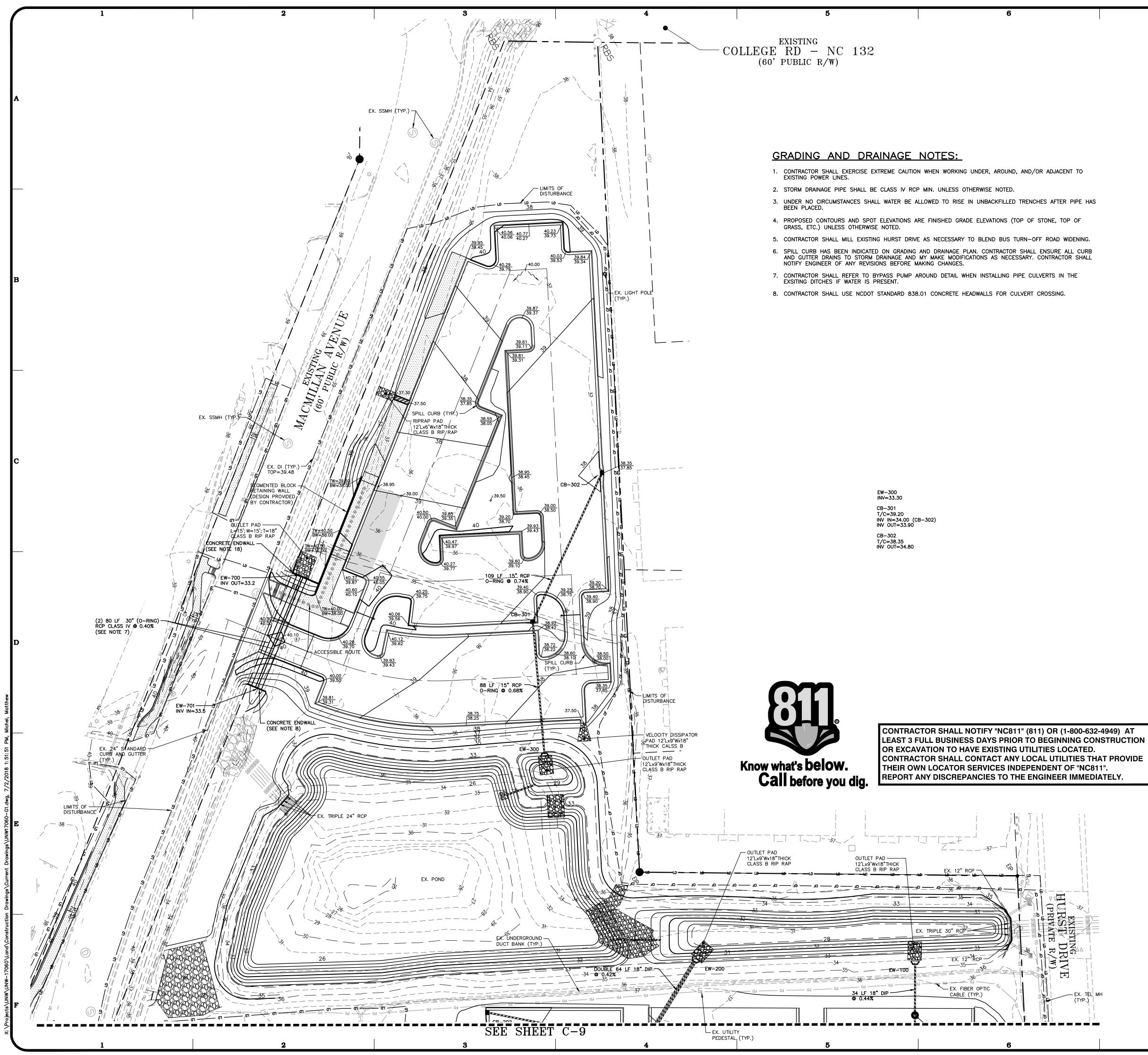
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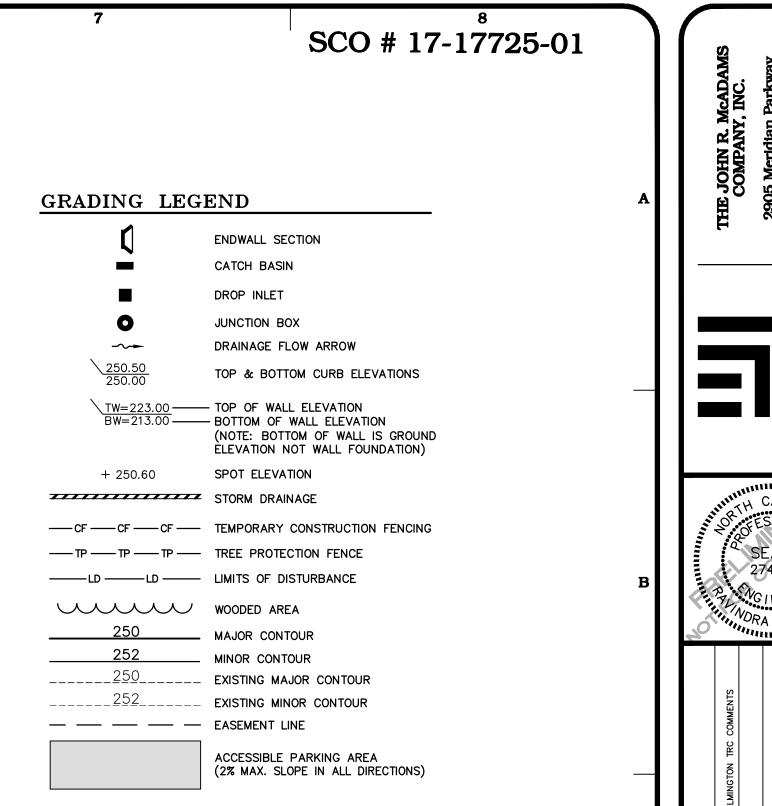
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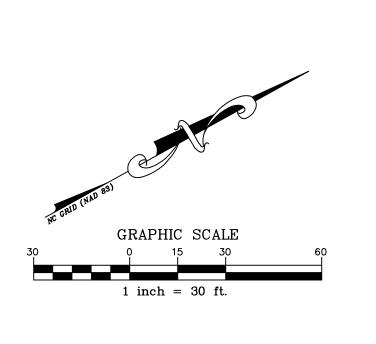
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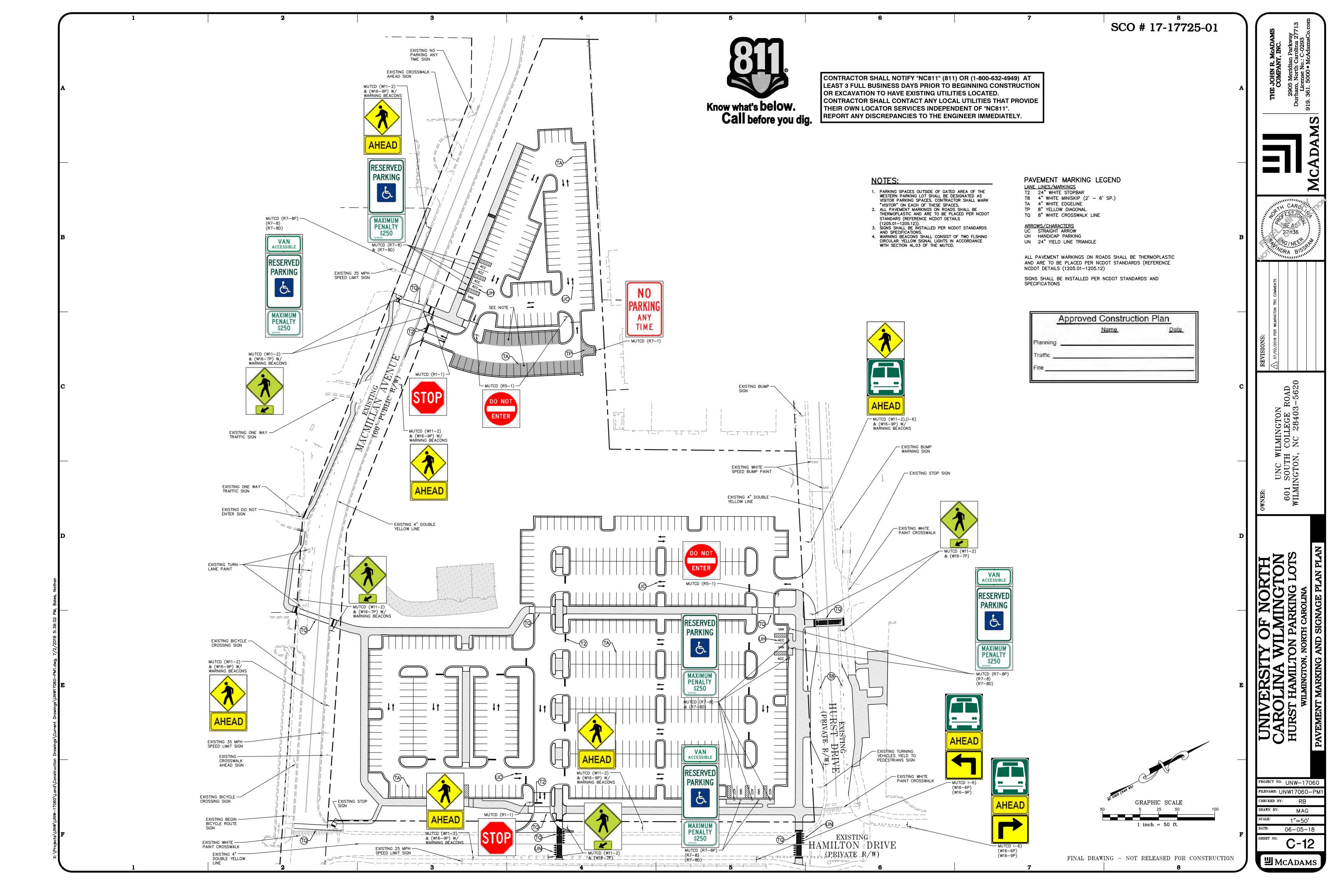
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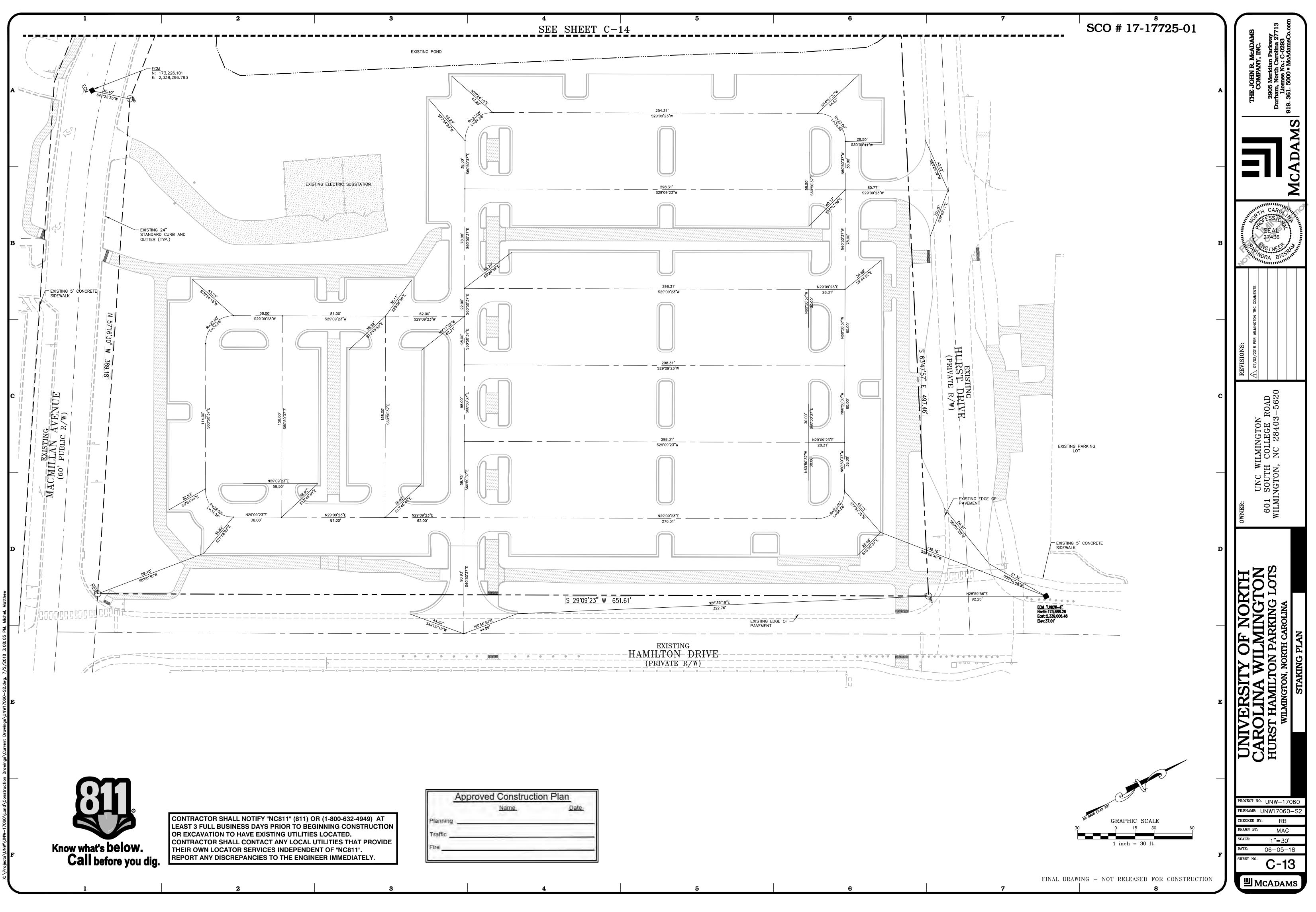
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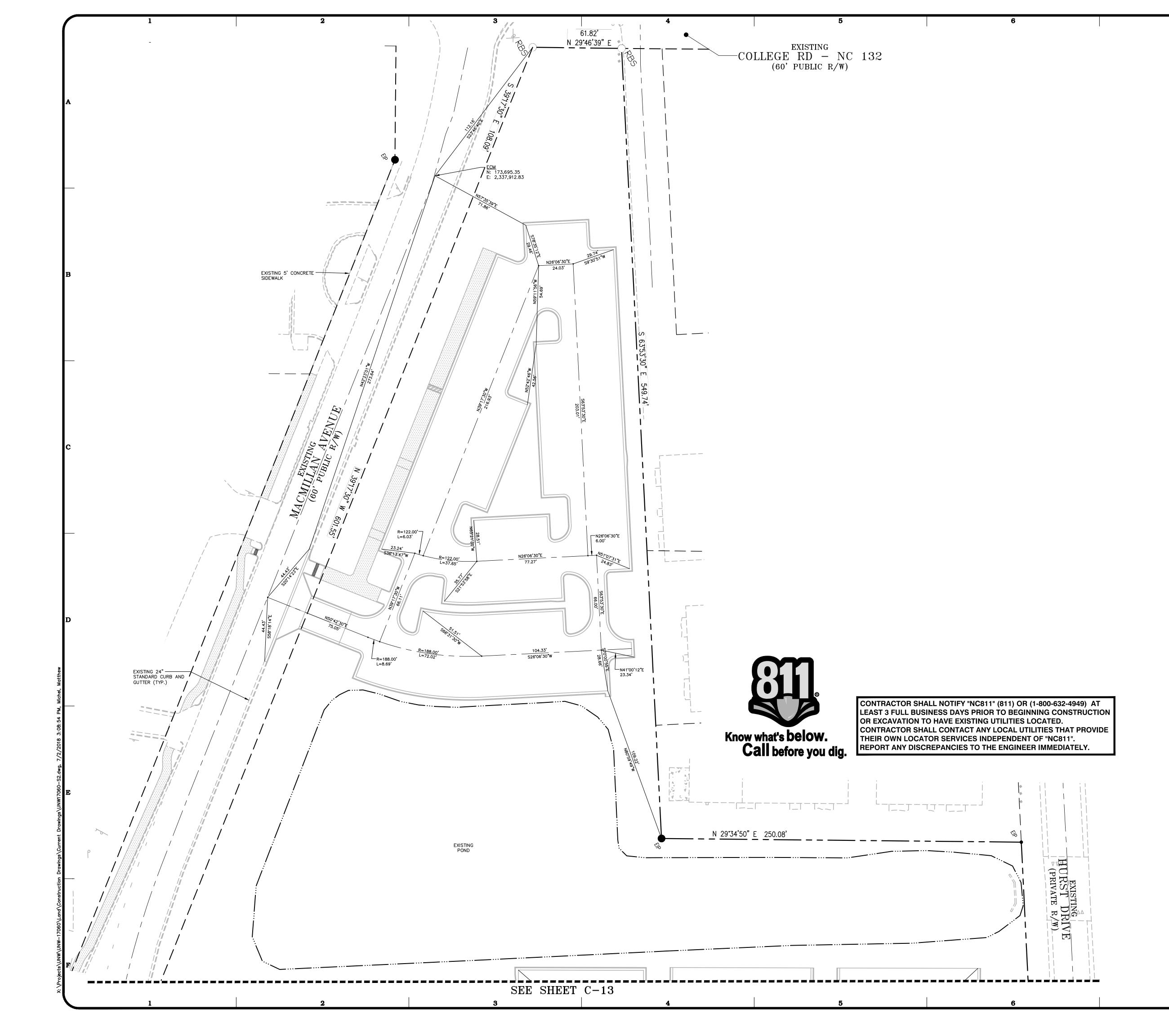


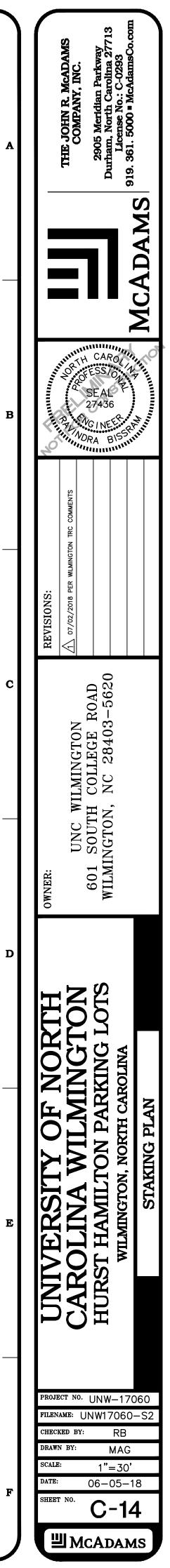
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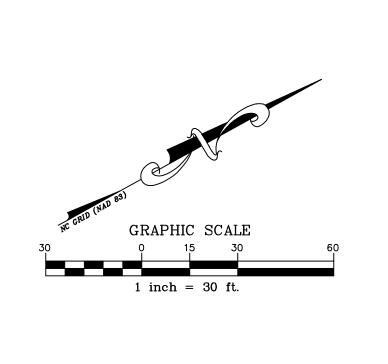
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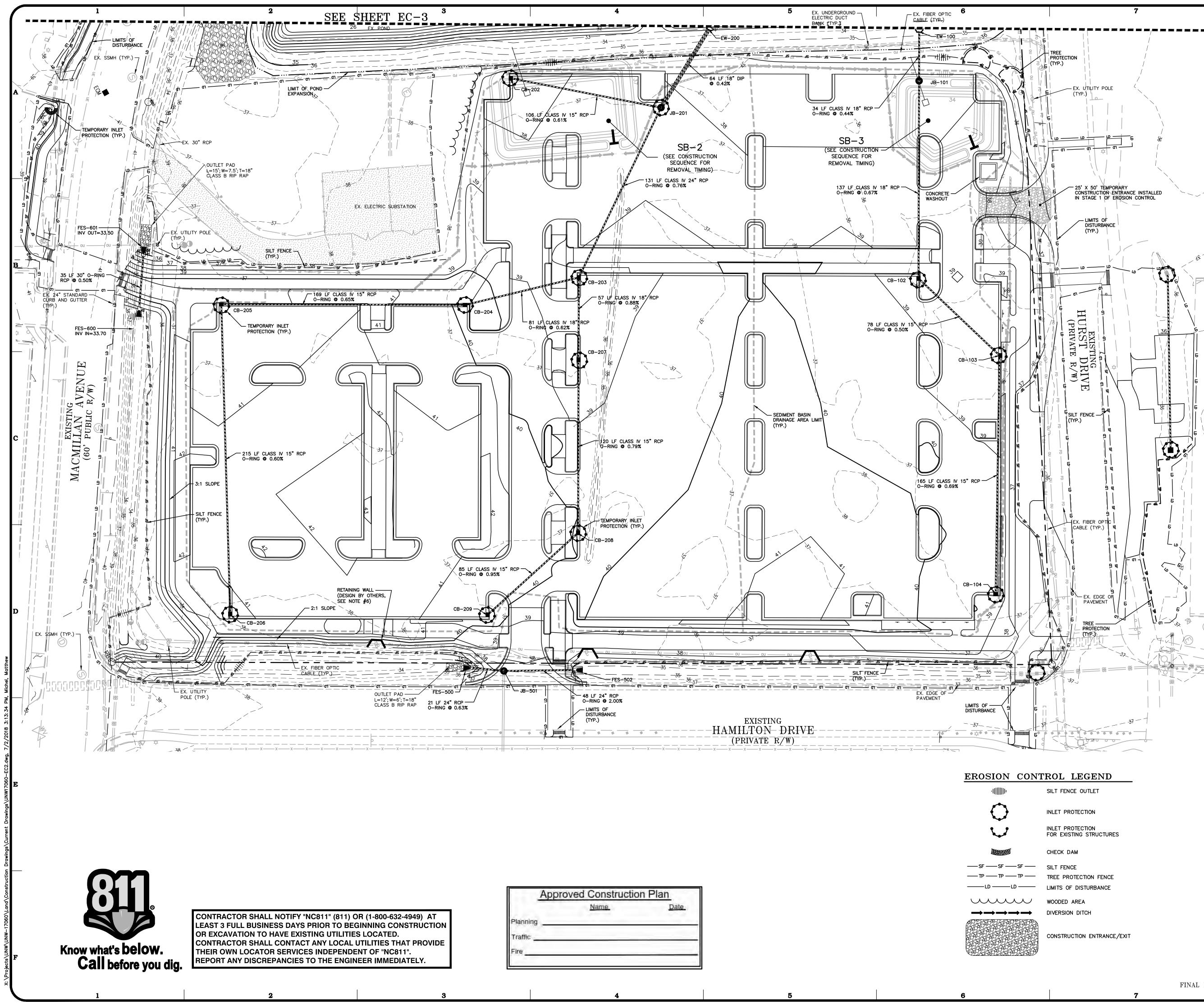


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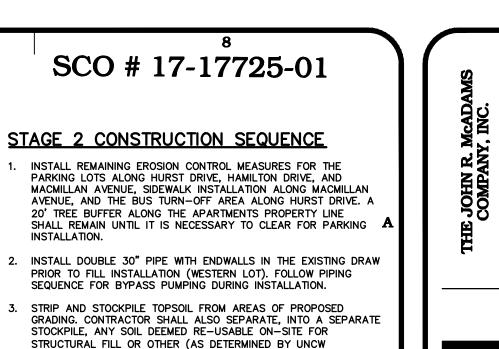
Approved Construction Plan

Name

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



Appro	oved Constructio	n Plan
	Name	Date_
Planning		
Traffic		
Fire		

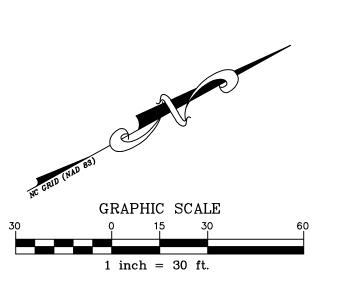


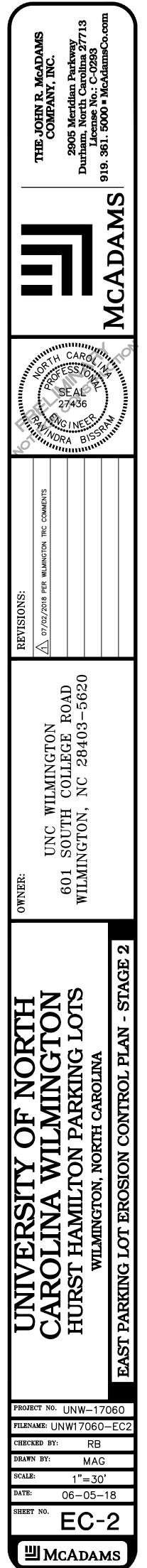
REPRESENTATIVES AND / OR THE ON-SITE GEOTECHNICAL ENGINEER). STOCKPILES SHALL BE PROTECTED (ENCIRCLED) WITH SILT FENCE. STOCKPILE SIZES AND LOCATIONS MUST BE MINIMIZED DUE TO THE LIMITED STORAGE AREA. ANY UNUSED MATERIAL FROM THE TOPSOIL STOCKPILE SHALL BE REMOVED FROM SITE AND DISPOSED OF PROPERLY AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO DETERMINE STOCKPILE LOCATIONS ON SITE DUE TO LIMITED STORAGE AREA AND EXISTING SURROUNDING VEGETATION.

- 4. BEGIN FILLING PARKING LOT SITE. AS FILL IS BROUGHT IN, ADJUST TEMPORARY DIVERSIONS SUCH THAT POSITIVE DRAINAGE TO THE SEDIMENT BASINS OCCUR.
- 5. INSTALL STORM DRAINAGE WITH INLET PROTECTION. ENERGY DISSIPATORS SHALL BE INSTALLED AND REFRESHED WHEN THE SITE IS STABILIZED.
- 6. MASS GRADE PARKING LOT AREAS AND CONSTRUCT STORMWATER MANAGEMENT FACILITY IMPROVEMENTS PER CONSTRUCTION DRAWINGS. DURING CONSTRUCTION FILL, CONTRACTOR SHALL FOLLOW ANY ADDITIONAL GUIDELINES/CRITERIA AS INDICATED BY **B** THE GEOTECHNICAL ENGINEER. AREAS IN THE VICINITY OF SEDIMENT BASINS SHALL BE FILLED LAST.
- FINE GRADE PARKING LOTS AND OTHER SITE AREAS AS SHOWN ON CONSTRUCTION DRAWINGS. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, STONE, CONCRETE, ETC. ONCE AREAS DRAINING TO SEDIMENT BASINS ARE STABILIZED, CONTACT THE EROSION CONTROL INSPECTOR TO REMOVE BASINS TO BEGIN FILLING PARKING LOT IN THAT AREA. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO NCDEQ PRIOR TO REMOVAL OF SEDIMENT BASINS.
- 8. FILL AND STONE PARKING LOT IN THE SEDIMENT BASIN AREAS. 9. PAVE THE PARKING LOTS.
- 10. STABILIZE ANY REMAINING AREAS AND INSTALL ALL REMAINING PERMANENT EROSION CONTROL MEASURES AND REFRESH ENERGY DISSIPATERS.
- 11. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL FOR INSPECTION BY NCDEQ, THE OWNER, AND ENGINEER. 12. IF SITE IS APPROVED, REMOVE ANY OTHER TEMPORARY EROSION CONTROL MEASURES AND SEED SOD OR PLANT ANY RESULTING
- BARE AREAS. 13. WHEN VEGETATION HAS BECOME ESTABLISHED CALL FOR FINAL SITE INSPECTION BY ENGINEER.

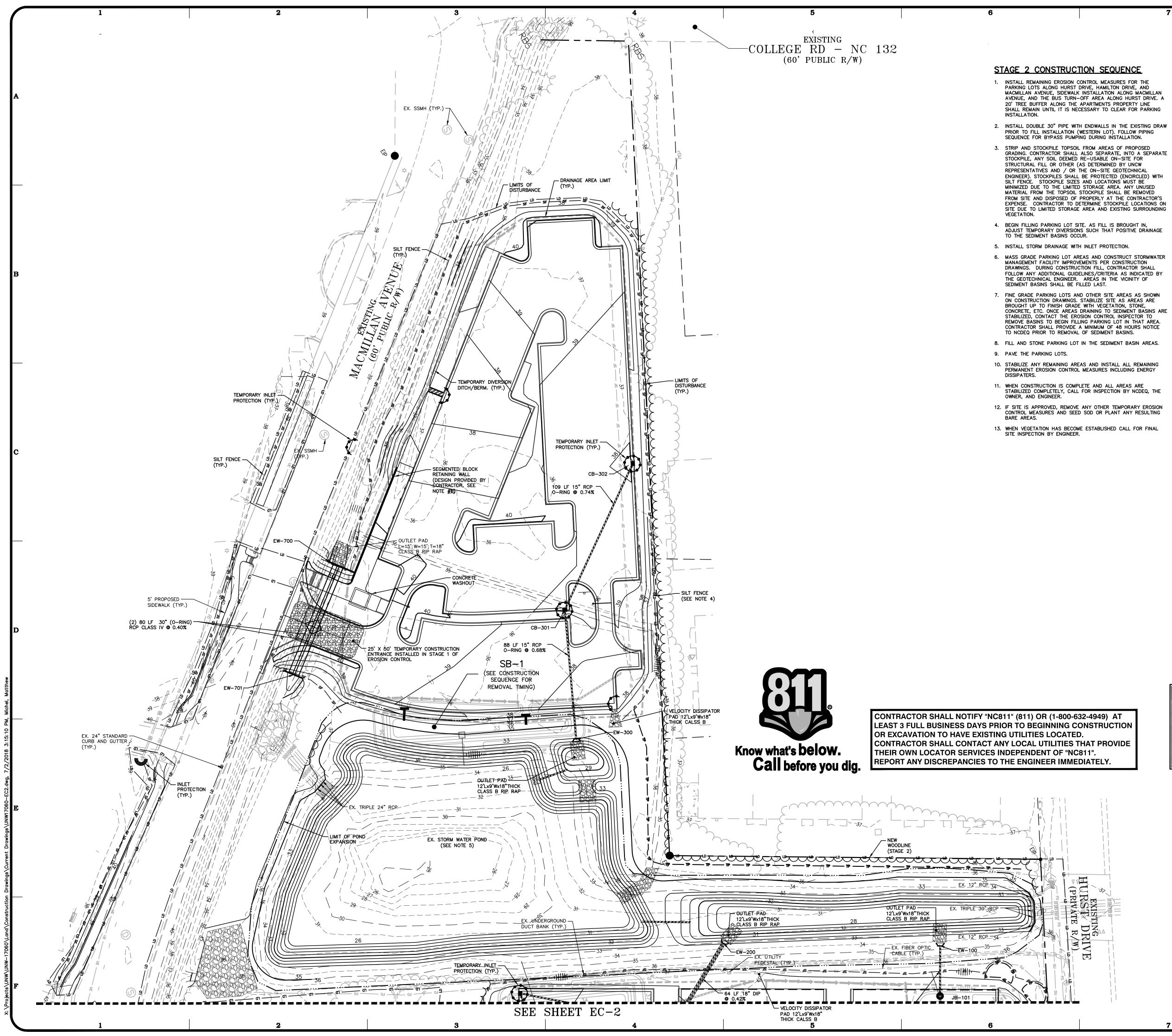
#### NOTES:

- 1. EXISTING EROSION CONTROL MEASURES ARE IN PLACE FROM STAGE 1 EROSION CONTROL. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF THESE DEVICES UNTIL THE SITE IS STABILIZED.
- EX. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 3. CONTRACTOR SHALL ADJUST TEMPORARY DIVERSION DITCHES, AS NECESSARY, IN ORDER TO ESTABLISH POSITIVE DRAINAGE TO THE POND DURING THE PARKING LOT GRADING.
- 4. SILT FENCE SHALL BE INSTALLED AT BUS TURN-OFF LOCATIONS AT THE TUE OF FILL (WESTERN SIDE OF HURST DRIVE) AND THE EDGE OF PAVEMENT (EASTERN SIDE OF HURST DRIVE) UNTIL WIDENED AREA IS STÒNE STABILIZED.
- 5. SIDEWALK AND STAMPED CROSSWALK ON THE SOUTHERN SIDE OF HURST DRIVE SHALL BE INSTALLED PRIOR TO THE DEMOLITION AND REALIGNMENT OF THE CROSS-CITY TRAIL ON THE NORTHERN SIDE OF HURST DRIVE. DETOUR SIGNS SHALL BE POSTED AT BOTH ENDS OF THE RELOCATION TO DIRECT PEDESTRIANS ON TO THE NEW SIDEWALK DURING CONSTRUCTION ACTIVITIES FOR THE BUS TURN-OFF AND SIDEWALK REALIGNMENT.
- CONTRACTOR SHALL PROVIDE SEALED ENGINEERING DESIGN FOR SEGMENTED RETAINING WALLS INCLUDING ANY NECESSARY HAND RAILING SYSTEMS.





FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



## 8 SCO # 17-17725-01

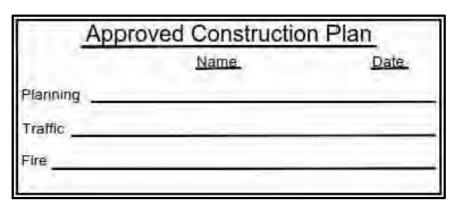
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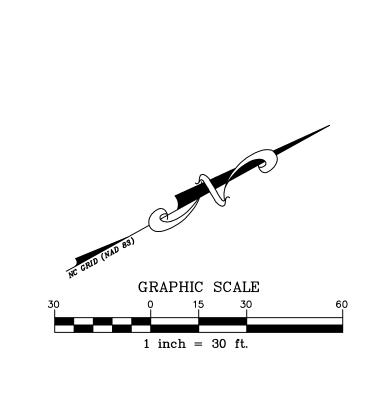
EROSION CONT	ROL LEGEND
00000	SILT FENCE OUTLET
$\bigcirc$	INLET PROTECTION
$\checkmark$	INLET PROTECTION FOR EXISTING STRUCTURES
	CHECK DAM
	SILT FENCE TREE PROTECTION FENCE LIMITS OF DISTURBANCE
	WOODED AREA
$\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow$	DIVERSION DITCH
	CONSTRUCTION ENTRANCE/EXIT

#### NOTES:

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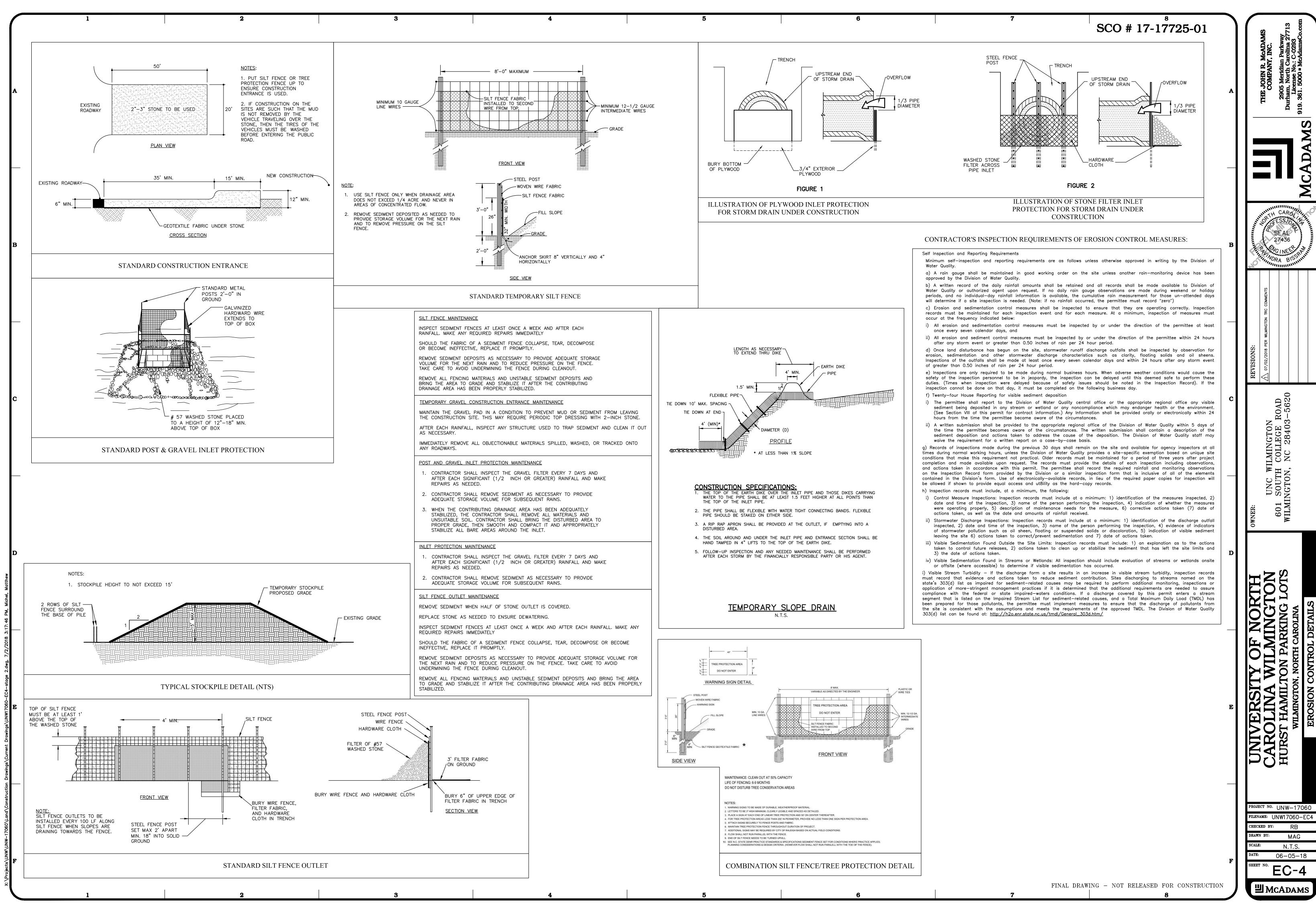
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- 6. CONTRACTOR SHALL PROVIDE SEALED ENGINEERING DESIGN FOR SEGMENTED RETAINING WALLS INCLUDING ANY NECESSARY HAND RAILING SYSTEMS.

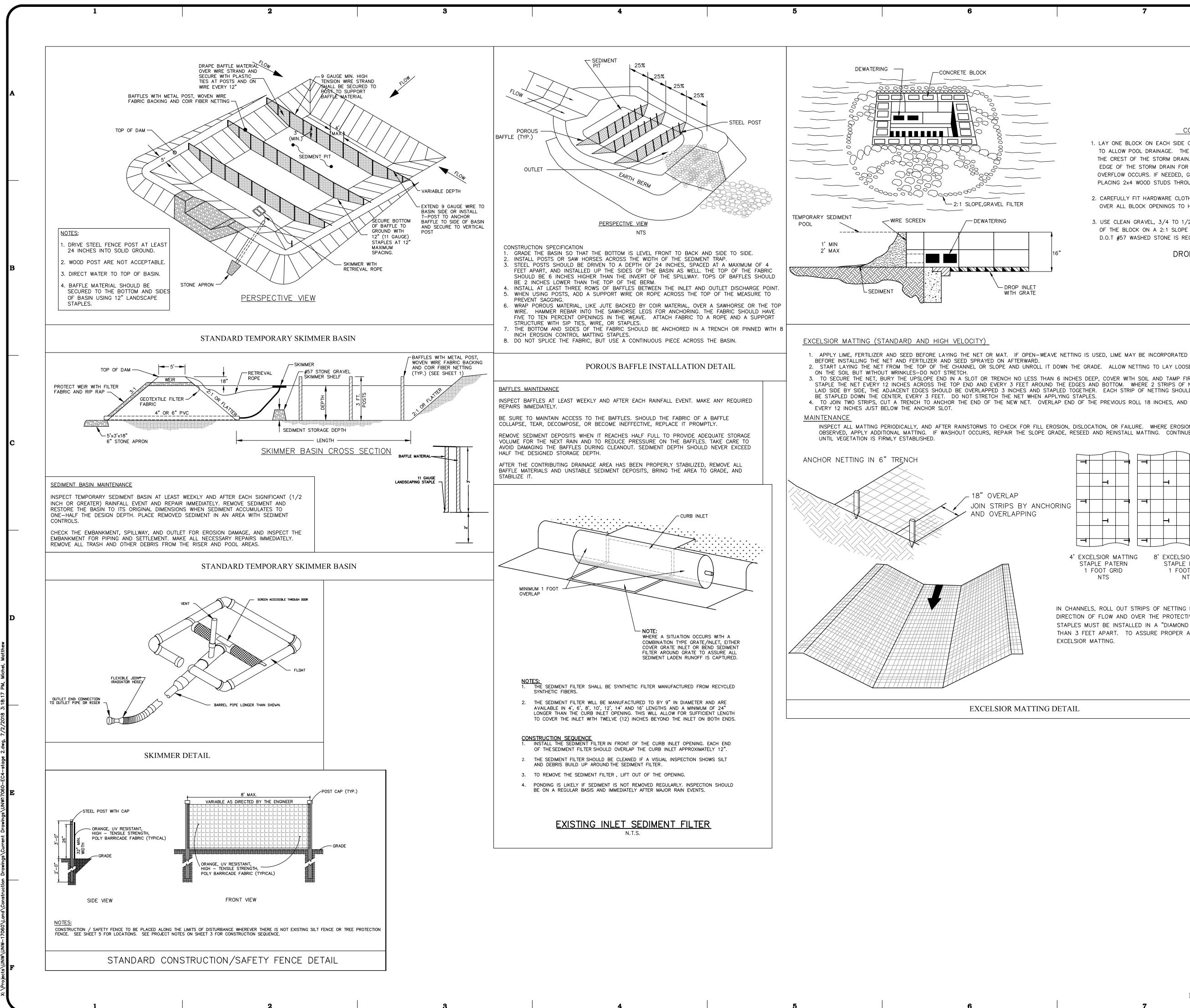


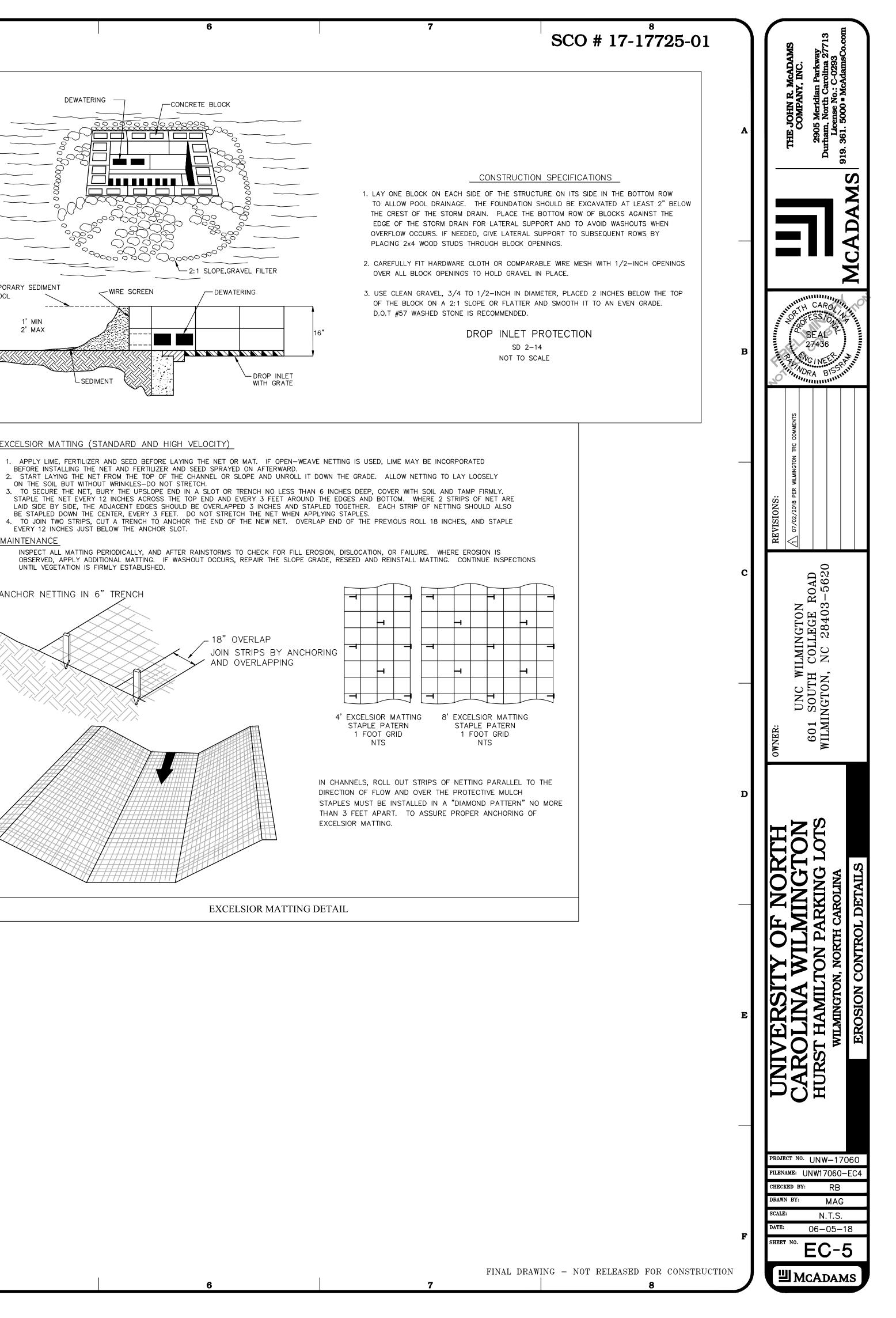


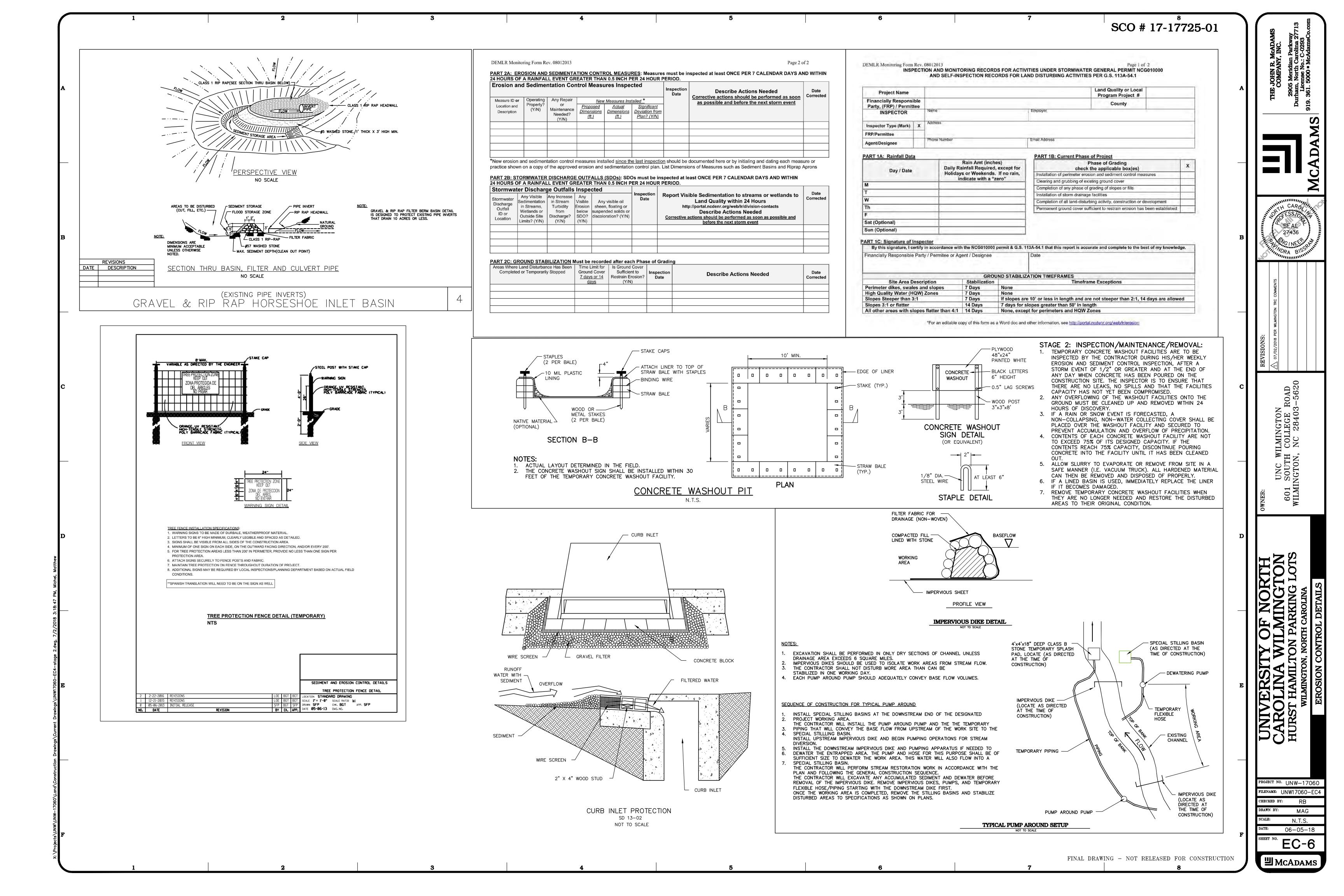
FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

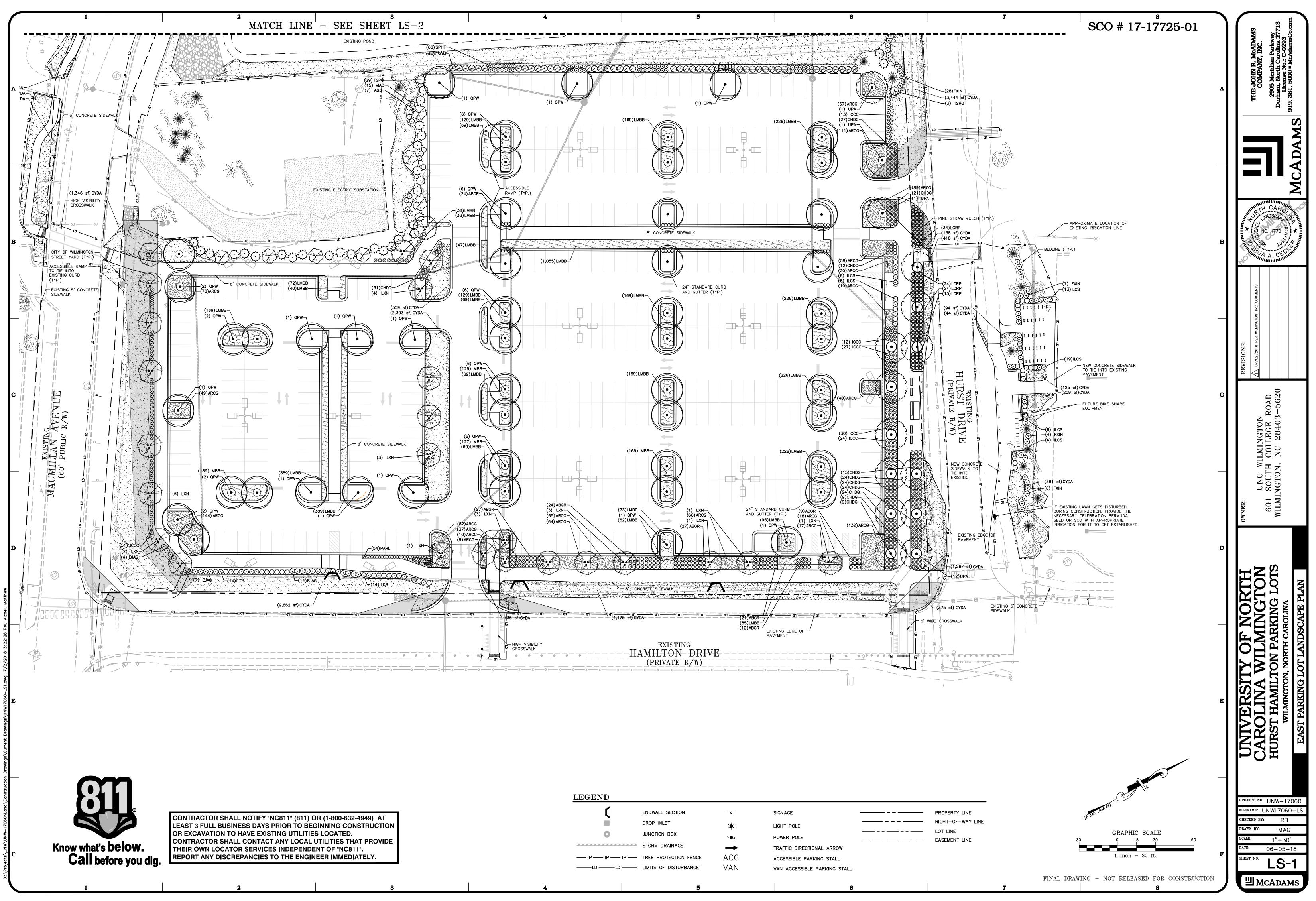
A	MSS 1910 Strate Source
	MCADAMS
в	SEAL F 27436 NORA BISSPATIN
	REVISIONS:
с	WNER: UNC WILMINGTON 601 SOUTH COLLEGE ROAD WILMINGTON, NC 28403-5620
	owner: UNC V 601 SOUTH WILMINGTON
D	<b>VORTH</b> <b>NGTON</b> JING LOTS DLINA OL PLAN - STAGE 2
E	UNIVERSITY OF NORTH CAROLINA WILMINGTON HURST HAMILTON PARKING LOTS WILMINGTON, NORTH CAROLINA WEST PARKING LOT EROSION CONTROL PLAN - STAGE 2
F	PROJECT NO. UNW-17060 FILENAME: UNW17060-EC2 CHECKED BY: RB DRAWN BY: MAG SCALE: 1"=30' DATE: 06-05-18 SHEET NO. EC-3



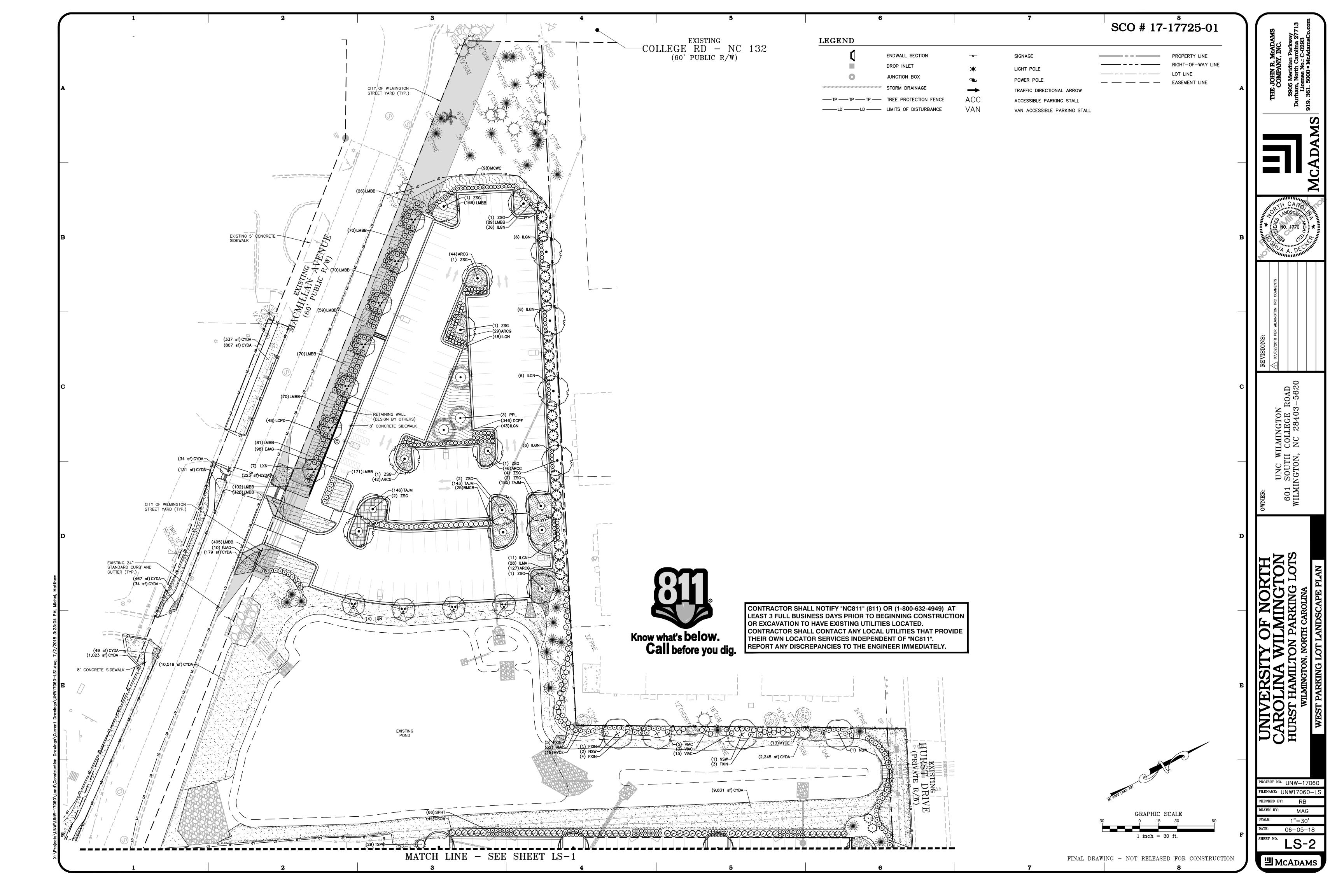








[	ENDWALL SECTION	<del>- 0 -</del>	SIGNAGE	
	DROP INLET	*	LIGHT POLE	
0	JUNCTION BOX		POWER POLE	
	STORM DRAINAGE	<b>→</b>	TRAFFIC DIRECTIONAL ARROW	
TP TP TP	- TREE PROTECTION FENCE	ACC	ACCESSIBLE PARKING STALL	
LDLD	- LIMITS OF DISTURBANCE	VAN	VAN ACCESSIBLE PARKING STALL	



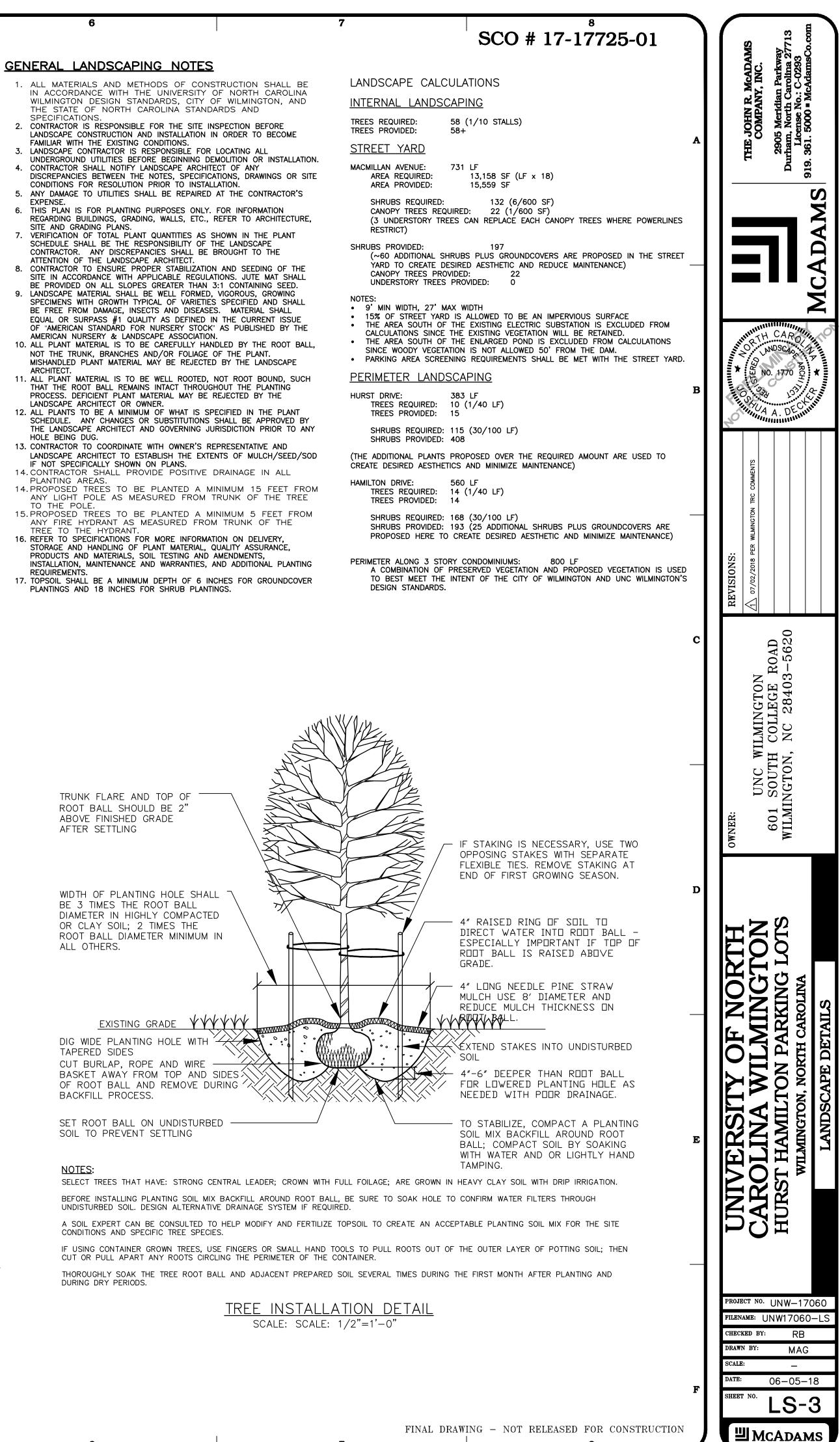
PLANT SCH	HEDUI	E					
TREES		QTY	COMMON NAME	BOTANICAL NAME	CAL	<u>HGT</u>	
	AG5	7	'Autumn Brilliance' Serviceberry	Amelanchier x grandiflora 'Autumn Brilliance'	_	8'	
	ILMA	28	Oakland Red Holly	llex x 'Magland'	_	6'-8'	
	LXN	36	Natchez Crape Myrtle	Lagerstroemia indica x faurei 'Natchez'	Multi	8'	
(+)	NSW	4	Black Gum	Nyssa sylvatica 'Wildfire'	2.5"		
	PPL	3	Longleaf Pine	Pinus palustris	-	8'	
	QPW	50	Willow Oak	Quercus phellos	2.5"		
	TSPG	32	Green Giant Arborvitae	Thuja standishii x plicata 'Green Giant'	_	6'-8'	
$\left( \cdot \right)^{\sim}$	UPA	15	Allee Lacebark Elm	Ulmus parvifolia 'Allee'	2.5"		
	ZSG	17	Sawleaf Zelkova	Zelkova serrata 'Green Vase'	2.5"		
SHRUBS	<u>CODE</u>	QTY	COMMON NAME	BOTANICAL NAME	<u>HGT</u>	<u>0C</u>	
<b>**</b> *	ABGR	144	Twist of Lime Abelia	Abelia x grandiflora 'Twist of Lime'	18''		
$\odot$	BMGB	25	Green Beauty Boxwood	Buxus microphylla japonica 'Green Beauty'	18"		
$\bigcirc$	CSOM	44	October Magic Sasanqua	Camellia sasanqua October Magic	42"		
JUNICE CONTRACTOR	CHDG	220	Duke Gardens Plum Yew	Cephalotaxus harringtonia 'Duke Gardens'	20"-24"		
$(\div)$	EJAG	133	Evergreen Euonymus	Euonymus japonicus 'aureo-marginatus'	18"		
٢	FXIN	60	Border Forsythia	Forsythia x intermedia	30"		
$\bigcirc$	ICCC	157	Carissa Holly	llex cornuta 'Carissa'	18''		
$\odot$	ILCS	82	Steeds Japanese Holly	llex crenata 'Steeds'	30"		
$\odot$	ILGN	162	Nigra Inkberry	llex glabra 'Nigra'	18"		
No	LCRP	97	Pixie Loropetalum	Loropetalum chinense rubrum 'Pixie'	15''		
(å)	LCPD	48	Fringe Flower	Loropetalum chinense 'Purple Diamond'	30"		
+	MYCE	31	Wax Myrtle	Myrica cerifera	30"		
(+)	PAHL	54	Hameln Dwarf Fountain Grass	Pennisetum alopecuroides 'Hameln'	_		
(+)	SPHT	66	Prairie Dropseed	Sporobolus heterolepis 'Tara'	_		
$\odot$	VIAC	70	Chindo Viburnum	Viburnum awabuki 'Chindo'	30"		
GROUND COVERS	<u>CODE</u>	<u>QTY</u>	COMMON NAME	BOTANICAL NAME	<u>CONT</u>		
	ARCG	1,461	Catlin's Giant Bugleweed	Ajuga reptans 'Catlin's Giant'	flat		
	CYDA	52,391 sf	'Celebration' Bermuda Grass	Cynodon dactylon 'Celebration'	Sod		
	DCPF	346	Dwarf Tufted Hair Grass	Deschampsia cespitosa 'Pixie Fountain'	1 gal		
	LMBB	6,835	Big Blue Lilyturf	Liriope muscari 'Big Blue'	4" pot		
	MCWC	98	White Muhly Grass	Muhlenbergia capillaris 'White Cloud'	1 gal		
	TAJM	474	Asiatic Jasmine	Trachelospermum asiaticum	4" pot		

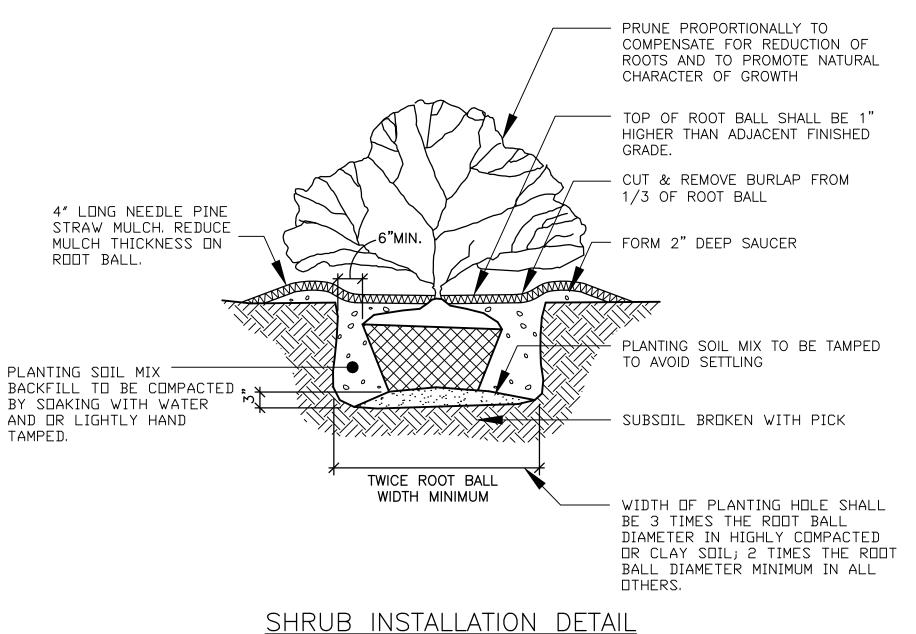


3" OF LONG- NEEDLE PINE STRAW FINISHED GRADE
OHMEND SOIL ACCORDING TO UNCW SPECIFICATIONS (32 90 00, 5.07)         ENSURE SUBGRADE IS PERMEABLE AND THAT EXCESSIVE WATER WILL NOT POOL IN PLANTING BEDS EXCEPT FOR AREAS MEANT TO RETAIN WATER (I.E. SWALES, RAIN GARDENS, PONDS)         O1       ORNAMENTAL GRASS       SECTION SCALE: 3/8''=1'-0
TYPICAL EDGE OF PLANT BED ATYPICAL SPACING IN CURVILINEAR PLAN BEDS, OUTSIDE ROW TO FOLLOW CURVE AS SPECIFIED O.C. SPACING CURVE AS SPECIFIED O.C. SPACING (SEE LANDSCAPE PLAN OR PLANT SCHEDULE) 1/2 OF SPECIFIED 1/2 OF SPECIFIED
SHOWN ON PLANT SCHEDULE) PLAN FINISHED GRADE
CONTAINER SIZE)       SPECIFICATIONS (32 90 00, 5.07)         O2       GROUNDCOVER PLANTING       PLAN/SECTION SCALE: 3/8"=1'-0

5

- 4

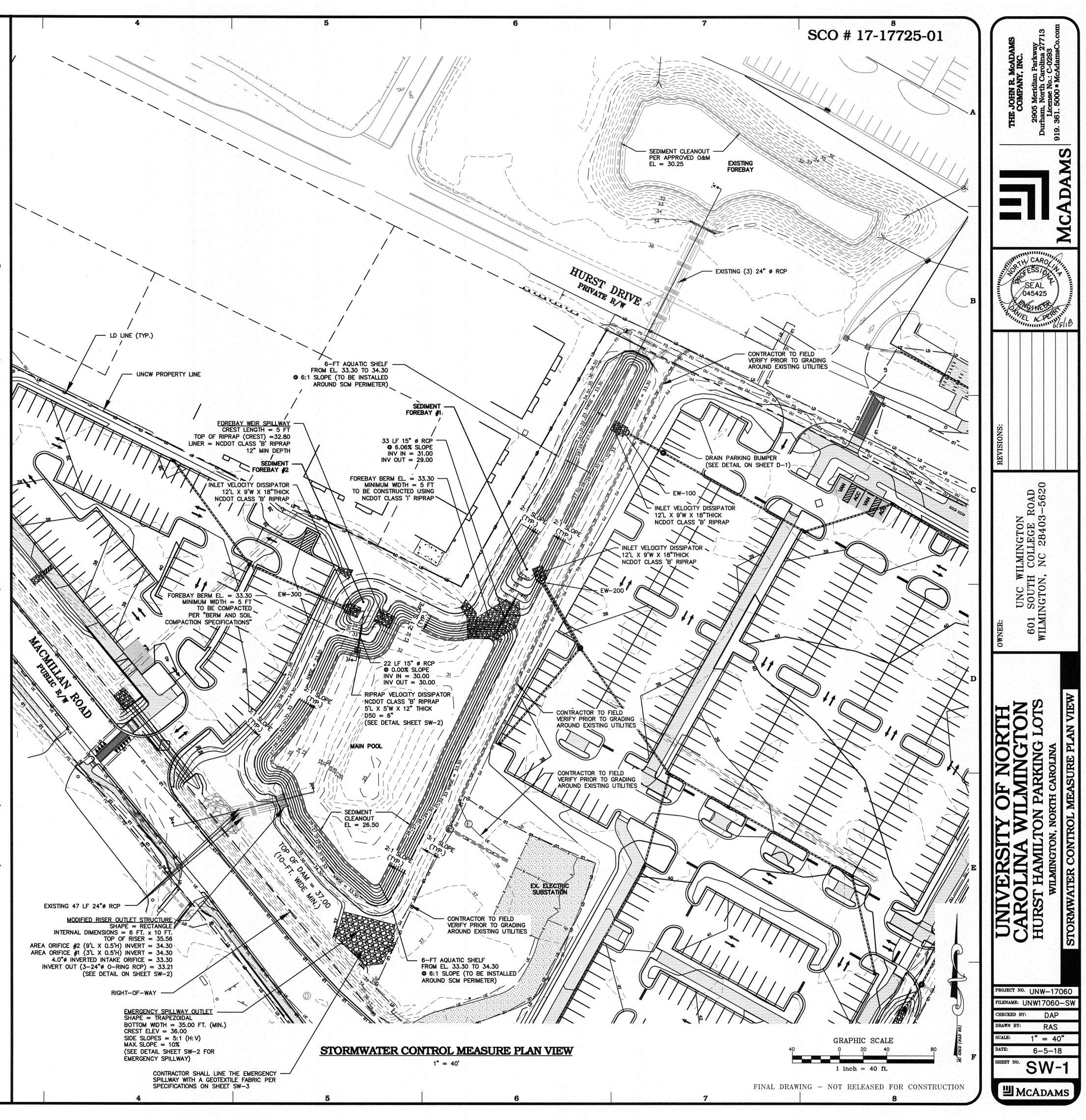


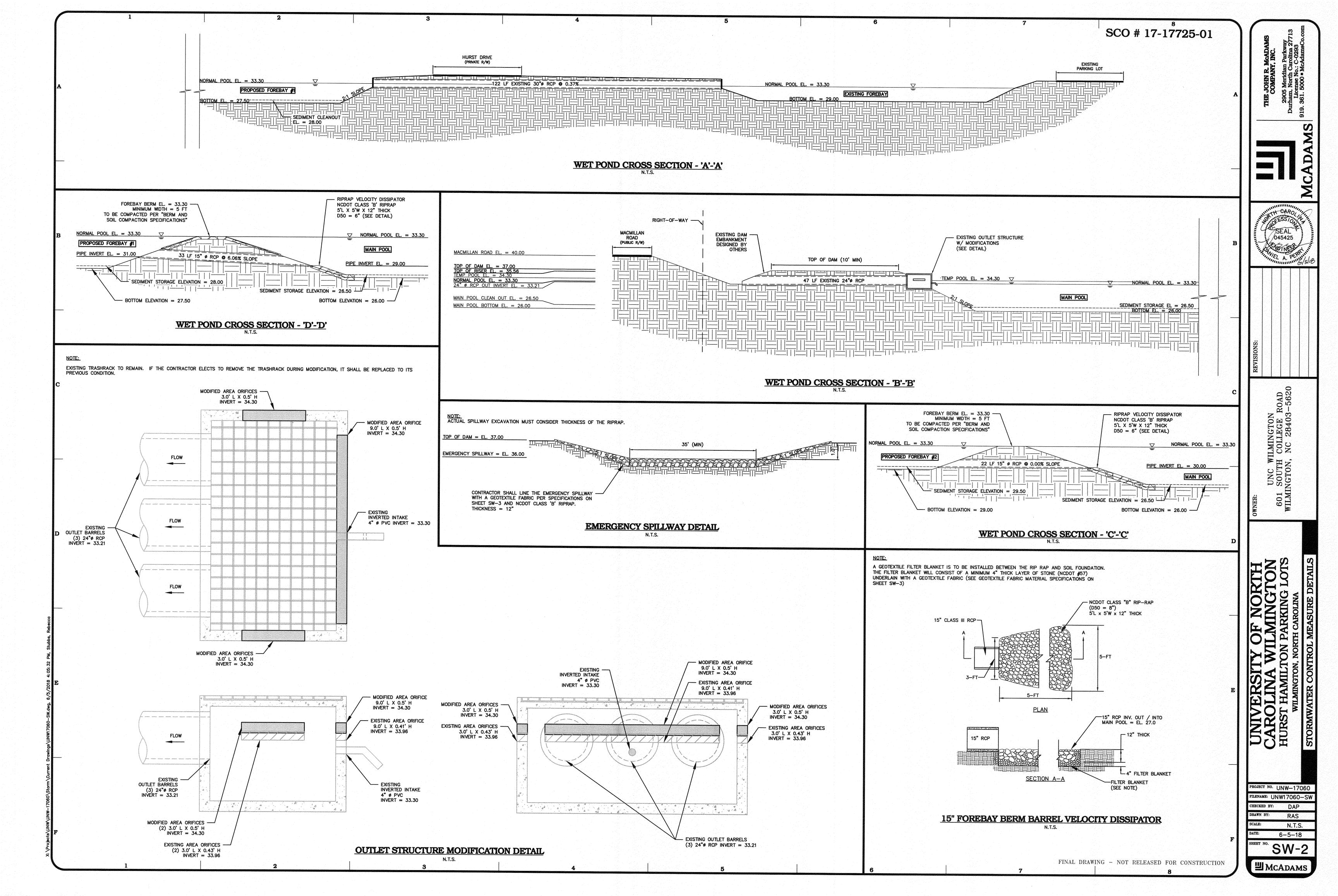


SCALE: 1/2"=1'-0"

FINAL	DRAWING	_	NOT	RELEASED	FOR	CONSTRUCTIO

and the second sec		1 2 3
		TORMWATER CONTROL MEASURE CONSTRUCTION SPECIFICATIONS GENERAL NOTES
-		. PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION IMMEDIATELY.
		2. THIS PLAN IS FOR THE MODIFICATION OF AN EXISTING STORMWATER CONTROL MEASURE. MCADAMS ASSUMES NO LIABILITY FOR THE PREVIOUS CONSTRUCTION OF THE FACILITY. THIS MODIFICATION DESIGN IS BASED ON THE BEST AVAILABLE INFORMATION FOR THE FACILITY.
A	3	3. THE FINAL CERTIFICATION FOR THIS FACILITY WILL INCLUDE A CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ON-SITE GEOTECHNICAL ENGINEER FOR OBSERVATION AND TESTING SUCH THAT THE ON-SITE GEOTECHNICAL ENGINEER CAN CERTIFY THE CONSTRUCTION.
	4	ALL CONSTRUCTION ACTIVITY RELATED TO THE PROPOSED STORMWATER MANAGEMENT FACILITY SHALL BE PER THE DETAILS AND SPECIFICATIONS SHOWN IN THESE DRAWINGS. SOILS, COMPACTION, AND OTHER MISCELLANEOUS DETAILS AND SPECIFICATIONS MAY BE MODIFIED PER THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER. HOWEVER, PRIOR TO IMPLEMENTATION, THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DEVIATION FROM THESE DESIGN DRAWINGS, INCLUDING SHOP DRAWINGS FOR ANY PROPOSED MODIFICATION.
	5	5. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLAN FOR THE PERMANENT PLANTING PLAN/SCHEDULE. PLEASE NOTE THAT NO TREES/SHRUBS OF ANY TYPE MAY BE PLANTED ON THE DAM EMBANKMENT (FILL AREAS).
	6	5. THE GRADES SHOWN ON THIS PLAN ARE FINISHED GRADES. IF THE EXISTING SOIL LAYER IN THE PROPOSED POND AFTER CONSTRUCTION / COMPACTION IS NOT DETERMINED SUITABLE BY A LANDSCAPE PROFESSIONAL FOR THE POND PLANTINGS, THEN THE CONTRACTOR SHALL AMEND THE PLANTING AREA OF THE STORMWATER MANAGEMENT FACILITY AS DIRECTED BY A LANDSCAPE PROFESSIONAL.
	7	7. ANY PENETRATIONS INTO THE GROUND ON UNCW PROPERTY REQUIRES A DIG PERMIT FROM UNCW (UNCW FORM CAN BE FOUND AT UNCW WEBSITE: http://www.uncw.edu/ba/facilities/Forms/dig-permit.pdf). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THIS DIG PERMIT. CONTRACTOR SHALL ALSO CONTACT NORTH CAROLINA ONE CALL A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
	8	3. ALL UTILITIES TO BE RELOCATED BY THE CONTRACTOR AND TO BE COORDINATED WITH UNCW AND THE DESIGN TEAM. EXISTING BUILDINGS SHALL REMAIN FUNCTIONING AT ALL TIMES. CONTRACTOR SHALL MAKE ALL EFFORTS TO AVOID AND MINIMIZE UTILITY SHUT DOWN DURING CONSTRUCTION. NEW UTILITIES SHALL BE INSTALLED AND TESTED PRIOR TO EXISTING UTILITY SHUT DOWN.
	ç	9. ANY REMOVED TOPSOIL SHALL BE STOCKPILED FOR USE IN PLANTING (SEEDING) ON THE DAM EMBANKMENT ONCE FINAL GRADES (AS SHOWN ON THE GRADING PLAN) HAVE BEEN ESTABLISHED WITH COMPACTED FILL. PRIOR TO TOPSOIL INSTALLATION, THE CONTRACTOR SHALL SCARIFY THE THE TOP 2"-3" OF THE BERM SECTION TO PROMOTE BONDING OF THE TOPSOIL WITH THE COMPACTED FILL. THE TOPSOIL DEPTH SHALL RANGE FROM 3"-4" ON THE DAM EMBANKMENT. PLEASE NOTE THE STOCKPILED TOPSOIL SHALL BE AMENDED, AS DIRECTED BY A LANDSCAPE PROFESSIONAL, PRIOR TO INSTALLATION ON THE EMBANKMENT.
B	1	0. IT IS POSSIBLE THAT DEWATERING WILL BE NECESSARY IN THE EXCAVATION AREAS (E.G. – EMBANKMENT SUB GRADE, INTERIOR PORTIONS OF THE STORMWATER FACILITY, KEY TRENCH, ETC.). THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE STORMWATER FACILITY SITE. DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY NEED TO BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE PRIOR TO DISCHARGE).
	BE	ERM AND SOIL COMPACTION SPECIFICATIONS
	1.	PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY BORROW / FILL AREAS AND ON-SITE GEOTECHNICAL ENGINEER VERIFY THEIR SUITABILITY FOR USE WITHIN THE DAM EMBANKMENT. ALSO, THE ON-SITE GEOTECHNICAL ENGINEER SHALL PERFORM STANDARD PROCTORS ON THE PROPOSED BORROW MATERIAL TO ENSURE THAT OPTIMUM MOISTURE CONTENT AND COMPACTION CAN BE ACHIEVED / CONTROLLED DURING CONSTRUCTION.
		ALL FILL MATERIALS TO BE USED FOR THE DAM EMBANKMENT SHALL BE TAKEN FROM BORROW AREAS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, WOOD, STONES GREATER THAN 6", AND FROZEN OR OTHER OBJECTIONABLE MATERIAL. SUITABLE SOIL TYPES FOR USE AS FILL WITHIN THE DAM EMBANKMENT SHALL BE APPROVED BY THE ONSITE GEOTECHNICAL ENGINEER FOR THE INTENDED USE.
		FILL PLACEMENT FOR THE EMBANKMENT SHALL NOT EXCEED A MAXIMUM 8" LIFT (UNCOMPACTED). EACH LIFT SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF EMBANKMENT. BEFORE PLACEMENT OF FILL FOR THE BERM SECTION, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE SURFACE PROPERLY PREPARED FOR FILL PLACEMENT. FILL MATERIAL ADJACENT TO ALL SPILLWAY AND DRAINAGE STRUCTURES SHALL BE PLACED IN 4-INCH (UNCOMPACTED) LIFTS AND HAND-COMPACTED TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT.
		ALL FILL SOILS USED IN THE EMBANKMENT CONSTRUCTION SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM-698). THE FILL SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN -1 TO +3 PERCENT OF ITS OPTIMUM MOISTURE CONTENT. COMPACTION TESTS SHALL BE PERFORMED BY THE ON-SITE GEOTECHNICAL ENGINEER DURING CONSTRUCTION TO VERIFY THAT THE PROPER COMPACTION LEVEL HAS BEEN REACHED. THE FILL SHOULD BE COMPACTED USING A SHEEPSFOOT TYPE COMPACTOR. IN ORDER TO PREVENT DAMAGE TO THE PIPE, NO COMPACTION EQUIPMENT SHALL CROSS ANY PIPE UNTL MINIMUM COVER IS ESTABLISHED ALONG THE PIPE.
C		THE DESIGN ENGINEER SHALL BE PROVIDED WITH REPORTS AND CERTIFICATION, BY THE ON-SITE GEOTECHNICAL ENGINEER, THAT THE GEOTECHNICAL ASPECTS OF THE FACILITY HAVE BEEN CONSTRUCTED PER PLAN. THESE REPORTS AND CERTIFICATION WILL BE NEEDED DURING THE AS-BUILT CERTIFICATION PROCESS FOR THIS STORMWATER FACILITY. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE TESTING AND OBSERVATION WITH THE ON-SITE GEOTECHNICAL ENGINEER.
		TESTING OF THE NEW FILL MATERIALS SHALL BE PERFORMED TO VERIFY THAT THE RECOMMENDED LEVEL OF COMPACTION IS ACHIEVED DURING CONSTRUCTION. THEREFORE, ONE DENSITY TEST SHALL BE PERFORMED FOR EVERY 2,500 SQUARE FEET OF AREA FOR EVERY LIFT OF FILL OR AS RECOMMENDED BY THE ON-SITE GEOTECHNICAL ENGINEER.
	7.	TESTING WILL BE REQUIRED ALONG THE 15" FOREBAY PIPES AT A FREQUENCY OF ONE TEST PER 25 LF OF PIPE PER VERTICAL FOOT OF FILL OR AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.
(	CC	DNSTRUCTION SEQUENCE
•		PRIOR TO CONSTRUCTION, THE OWNER SHALL OBTAIN A LAND DISTURBANCE (EROSION CONTROL / GRADING) PERMIT, A STATE STORMWATER PERMIT FROM THE NC
	2.	DEPARTMENT OF ENVIRONMENTAL QUALITY, AND ALL OTHER NECESSARY PERMITS FROM APPLICABLE AGENCIES (E.G. 404 / 401 PERMITS). INSTALL ALL SEDIMENT AND EROSION CONTROL MEASURES PER THE APPROVED SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR SHALL MAINTAIN ALL APPROVED SEDIMENT AND EROSION CONTROL MEASURES THROUGHOUT THE ENTIRE PROJECT, AS REQUIRED. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE
	3.	EROSION CONTROL INSPECTOR, AS REQUIRED BY GOVERNING AGENCIES, PRIOR TO ANY CLEARING. CLEAR AND GRUB AREA WITHIN THE LIMITS OF THE PROPOSED DAM MODIFICATION. ALL TREES AND THEIR ENTIRE ROOT SYSTEMS MUST BE REMOVED FROM THE DAM FOOTPRINT AREA AND BACKFILLED WITH SUITABLE SOIL MATERIAL. THE BACKFILLED AREAS SHALL BE COMPACTED TO THE SAME STANDARDS AS THE DAM EMBANKMENT. THE REMAINING AREA OF THE EMBANKMENT SHALL BE STRIPPED TO A SUITABLE DEPTH AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER. ANY RESIDUAL SOILS TO BE LEFT IN PLACE MUST BE WELL SCARIFIED TO PROMOTE BONDING OF THE NEW EMBANKMENT FILL. NO EMBANKMENT MATERIAL SHALL BE PLACED FOR THE DAM OR KEY TRENCH UNTIL APPROVAL OF THE DAM SUBGRADE / TRENCH IS OBTAINED FROM THE ON-SITE GEOTECHNICAL ENGINEER.
D		BEGIN MODIFICATION OF THE EMBANKMENT. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8" THICK LIFTS PRIOR TO COMPACTION, UNLESS DIRECTED OTHERWISE BY THE ON-SITE GEOTECHNICAL ENGINEER. FILL LIFTS SHALL BE CONTINUOUS OVER THE ENTIRE LENGTH OF FILL. IF IT IS NECESSARY, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO FINAL GRADE IN ORDER TO ACHIEVE PROPER COMPACTION.
		CONSTRUCT EMBANKMENT PER SPECIFICATIONS ON THIS SHEET AND REQUIREMENTS OF THE ON-SITE GEOTECHNICAL ENGINEER. ALL CHARACTERISTICS OF THE EMBANKMENT FILL MATERIAL SHALL MEET THE STANDARDS SET FORTH, INCLUDING COMPACTION AND MOISTURE REQUIREMENTS. IF NECESSARY TO ACHIEVE PROPER COMPACTION, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO PROPER FINAL GRADE. ANY HAND COMPACTION ACTIVITIES AROUND SPILLWAY OR DRAIN STRUCTURES SHALL BE CONDUCTED IN 4-INCH LOOSE LIFTS AND BE TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT. ALL COMPACTION AND MOISTURE TESTING SHALL BE CARRIED OUT AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.
	7.	UPON COMPLETION OF DAM EMBANKMENT, PROMPTLY STABILIZE AND SEED DAM EMBANKMENT PER SEEDING SCHEDULE. SCHEDULE A FINAL AS-BUILT INSPECTION AND AS-BUILT SURVEY WITH THE ENGINEER. AN AS-BUILT INSPECTION SHOULD BE SCHEDULED A MINIMUM OF 60 DAYS BEFORE A PERMIT TO IMPOUND IS REQUIRED. ANY COMMENTS OR DEFICIENCIES IN THE DAM CONSTRUCTION MUST BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AND OWNER BEFORE CERTIFICATION SHALL BE GRANTED. UPON FINAL APPROVAL FROM THE NC DEQ, BEGIN IMPOUNDING WATER. NO WATER SHALL BE IMPOUNDED BEFORE AN APPROVAL TO IMPOUND IS ISSUED FROM THE NC DEQ.
	οι	JTLET STRUCTURE MATERIAL SPECIFICATIONS
	1. A CUT WOF	ALL MODIFICATIONS TO THE SPILLWAY RISER SYSTEM SHALL LEAVE THE REMAINING STRUCTURE IN A CONDITION EQUAL TO OR BETTER THAN THE EXISTING SYSTEM. ALL TTING AND/OR MODIFICATIONS TO THE SPILLWAY RISER SYSTEM SHALL BE DONE AS TO MINIMIZE EXPOSED REINFORCING STEEL AND MINIMIZE ADDITIONAL CONCRETE RK. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW FOR PRODUCTS OR METHODS USED TO COAT/PROTECT ANY REINFORCING STEEL EXPOSED DURING DIFICATION ACTIVITIES AND FOR DOWELING OR SECURELY ATTACHING "FILL" CONCRETE TO SPILLWAY RISER ORIFICE OPENINGS.
E	<u>S1</u>	TATEMENT OF RESPONSIBILITY
		ALL REQUIRED MAINTENANCE AND POST-CONSTRUCTION INSPECTIONS OF THE STORMWATER MANAGEMENT FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.





## STORMWATER CONTROL MEASURE LANDSCAPE PLAN SPECIFICATIONS

LEGEND

QTY.	SYM.	SCIENTIFIC NAME	COMMON NAME	НАТСН	TYPE	SPACING
HIGH		RSH/LOW MARSH	PLANTING PLAN	and the second		
218	EF	EUPATORIADELPHUS FISTULOSUS	JOE PYE WEED		4-INCH CONTAINER	24 <sup>**</sup> O.C.
262	НС	HIBISCUS COCCINEUS	SCARLET ROSE MALLOW		4-INCH CONTAINER	24" O.C.
351	KV	KOSTELETZKYA VIRGINICA	SEASHORE MALLOW		4-INCH CONTAINER	24" O.C.
211	SC	SCIRPUS CYPERINUS	WOOLGRASS	(TTTT)	4-INCH CONTAINER	24" O.C.
427	ZM	ZIZANIOPSIS MILIACEA	GIANT CUTGRASS		4-INCH CONTAINER	24" O.C.
404	IV P	IRIS VIRGINICA	BLUE FLAG IRIS		4-INCH CONTAINER	24" O.C.

#### SEEDBED PREPARATION

- 1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- 2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- 3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- 4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE PERMANENT SEEDING SCHEDULE).
- 5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS
- PREPARED 4 TO 6 INCHES DEEP. 6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER.
- 7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- 8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES. SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- 9. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

#### PERMANENT SEEDING SCHEDULE (DAM EMBANKMENTS)

SEEDING MIXTURE CELEBRATION BERMUDAGRASS RATE (LBS/ACRE)

SEEDING NOTES USE COMMON BERMUDAGRASS ONLY ON ISOLATED SITES WHERE IT CANNOT BECOME A PEST.

## SEEDING DATES APRIL 15 - JUNE 30

SOIL AMENDMENTS APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 3000 LB/ACRE. GROUND AGRICULTURAL LIMESTONE AND 500 LB/ACRE 10-10-10 FERTILIZER.

APPLY 4000 LB/AC GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR BY TACKING WITH ASPHALT, ROVING, OR NETTING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE REFERTILIZE THE FOLLOWING APRIL WITH 50 LB/ACRE NITROGEN. REPEAT AS GROWTH REQUIRES. MAY BE MOWED ONLY ONCE A YEAR.

#### PLANTING INSTRUCTIONS

3

#### PLANTING TECHNIQUES

- A. ENSURE THAT ROOTS, ONCE REMOVED FROM POT, ARE STRAIGHTENED AND FACE DOWNWARD.
- B. CREATE PLANTING AREA FOR EACH PLANT AND EXCAVATE PIT.
- C. PLACE PLANTS IN PIT INSURING ROOTS ARE FACING COMPLETELY DOWNWARD.
- D. HEEL IN SOIL AROUND PLANT AND PROCEED TO NEXT PLANTING LOCATION.
- E. NEWLY PLANTED PLANTS NEED TO BE FASTENED TO THE SUBSTRATE FOR THE ESTABLISHMENT OF NEW ROOTS.
- F. ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS HALL BE CUT OFF CLEANLY.
- G. THE DIAMETER OF THE PITS FOR ALL VEGETATIVE STOCK SHALL BE AT LEAST THREE TIMES THE DIAMETER OF THE ROOT MASS. PLANT PIT WALL SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
- H. SET THE PLANTS UPRIGHT, IN THE CENTER OF THE PIT. THE BOTTOM OF THE ROOT MASS SHOULD BE RESTING ON UNDISTURBED SOIL.
- POCKETS. WHEN PIT IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF THE BACKFILL. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
- BROKEN OR DAMAGED PARTS WILL BE CUT BACK TO UNDAMAGED TISSUE, LEAVING AS MUCH GREEN BASAL TISSUE AS POSSIBLE ABOVE THE ROOTS. IF MORE THAN FIFTY PERCENT (50%) OF THE PLANT IS DAMAGED THEN CONTRACTOR SHALL REPLACE THE PLANT.

CONTAINER STOCK / BARE ROOT

- A. STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER ONCE REMOVED FROM THE CONTAINER.
- B. CONTAINER PLANTS WILL NEED TO BE WATERED REGULARLY AND PLACED IN SHADY CONDITIONS UNTIL PLANTING OCCURS.
- C. BARE ROOT PLANTS ARE FOR IMMEDIATE PLANTING, OTHERWISE SEE D) BELOW.
- D. IF BARE ROOTS SPECIMENS ARE NOT TO BE PLANTED WITHIN FOUR (4) DAYS, TEMPORARY HOLDING OF BARE ROOT SPECIMENS ARE TO BE COVERED ENTIRELY BY A SUITABLE MEDIUM (ETC. SOIL, SAWDUST, MULCH OR THE LIKE) AND WATERED REGULARLY SO AS TO NOT DRY OUT.

#### PLANT LOCATIONS

TOP OF DAM = 37.00

- A. NEW PLANTINGS SHALL BE LOCATED WHERE SHOWN ON PLAN EXCEPT WHERE CHANGES HAVE BEEN MADE IN PROPOSED CONSTRUCTION.
- OR THE OWNER'S REPRESENTATIVE. WATER

WATER SHALL BE POTABLE AND SHALL NOT CONTAIN ELEMENTS TOXIC TO PLANT LIFE.

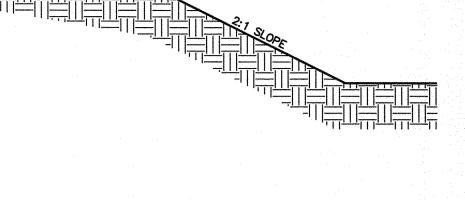
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MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE		
			MD	CD	
WIDE WIDTH TENSILE STRENGTH	ASTM D 4595	kN/m (lbs/in)	39.4 (225)	25.4 (145)	
GRAB TENSILE STRENGTH	ASTM D 4632	N (lbs)	1647 (370)	1113 (250)	
GRAB TENSILE ELONGATION	ASTM D 4632	%	15	15	
TRAPEZOID TEAR STRENGTH	ASTM D 4533	N (lbs)	445 (100)	267 (60)	
CBR PUNCTURE STRENGTH	ASTM D 6241	N (lbs)	4228	(950)	
APPARENT OPENING SIZE (AOS)1	ASTM D 4751	mm (U.S. SIEVE)	0.212 (70)		
PERCENT OPEN AREA	COE-02215	%	<b>4</b>		
PERMITTIVITY	ASTM D 4491	Sec -1	0.28		
PERMEABILITY	ASTM D 4491	cm/sec	0.01		
FLOW RATE	ASTM D 4491	l/min/m² (gal/min/ft²)	733 (18)		
UV RESISTANCE (AT 500 HOURS)	ASTM D 4355	% STRENGTH RETAINED	9(	)	
ASTM D 4751: AOS IS A MAXIMUM	OPENING DIAMETER	VALUE			
PHYSICAL PROPERTIES	TEST METHO	D UNIT	TYPICAL VALUE		
MASS / UNIT AREA	ASTM D 526	1 g/m² (oz/yd²)	210 (6.2)		
THICKNESS	ASTM D 5199	mm (mils)	0.4 (15)		
ROLL DIMENSIONS (WIDTH X LENGTH	1) -	M (ft)	3.7 (12) X	91 (300)	
ROLL AREA	-	m² (yd²)	334 (4	100)	
ESTIMATED ROLL WEIGHT		kg (lbs)	74 (1	64)	

#### **GEOTEXTILE FABRIC** MATERIAL SPECIFICATIONS

.<u>\*</u>\*\*\*

VEGETATED SHELF DETAIL N.T.S.



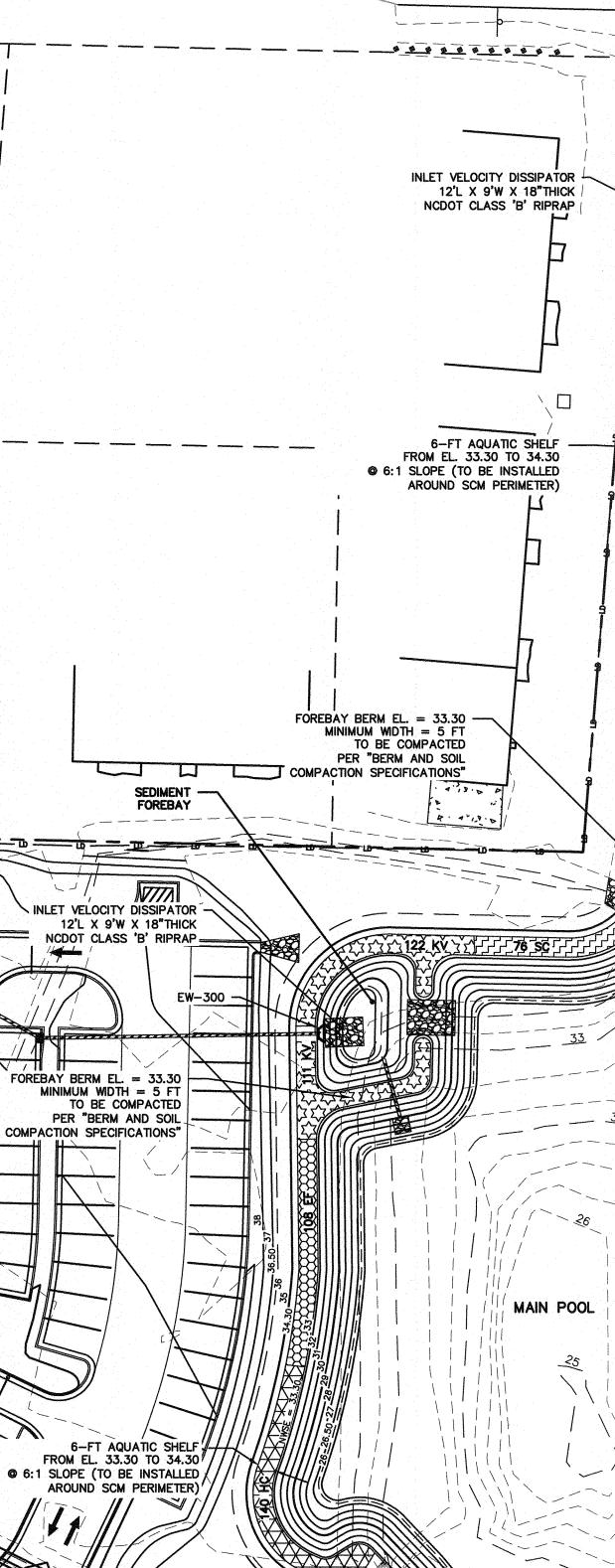
TOP OF AQUATIC SHELF = 34.30

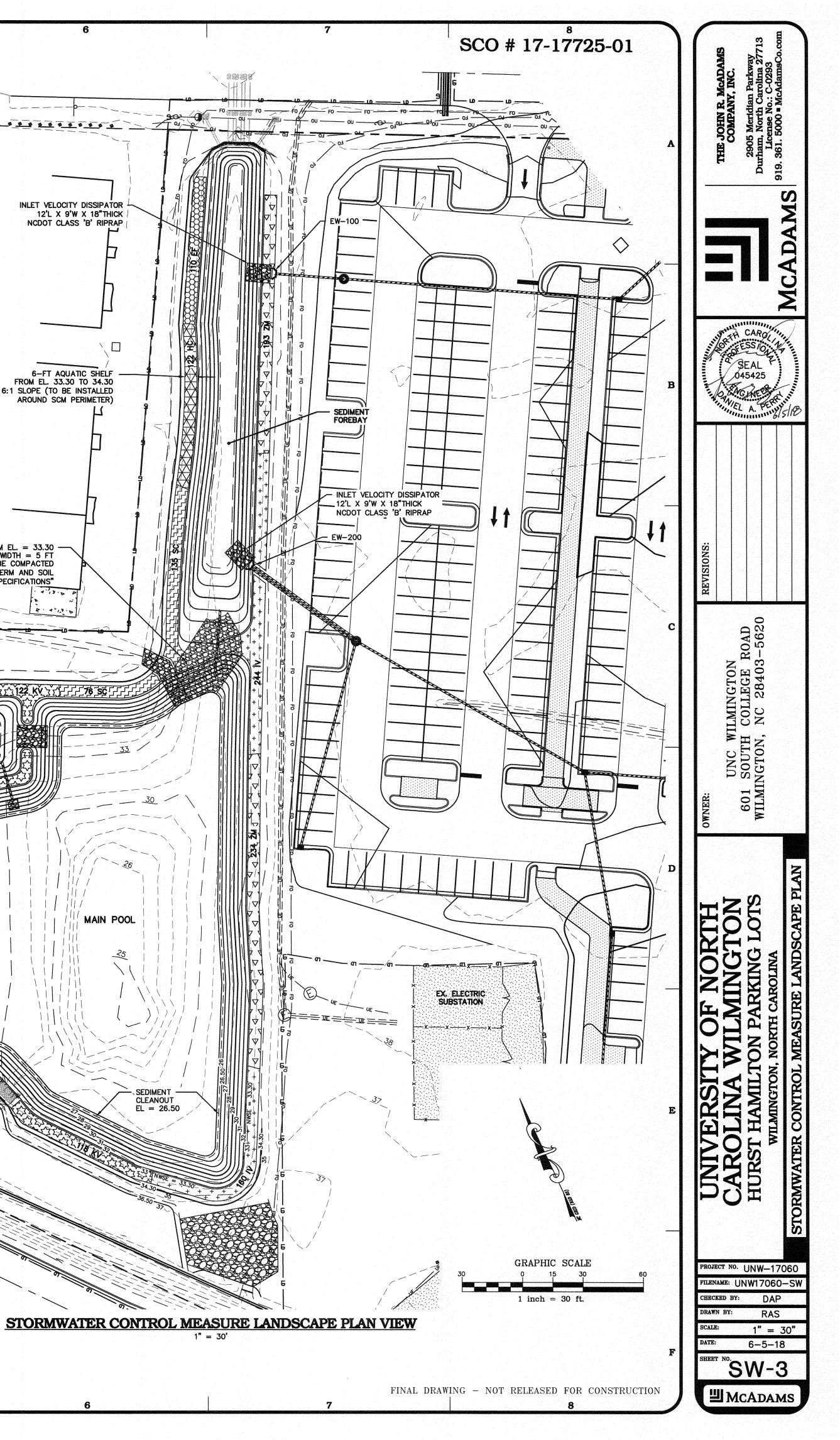
NORMAL POOL = 33.30

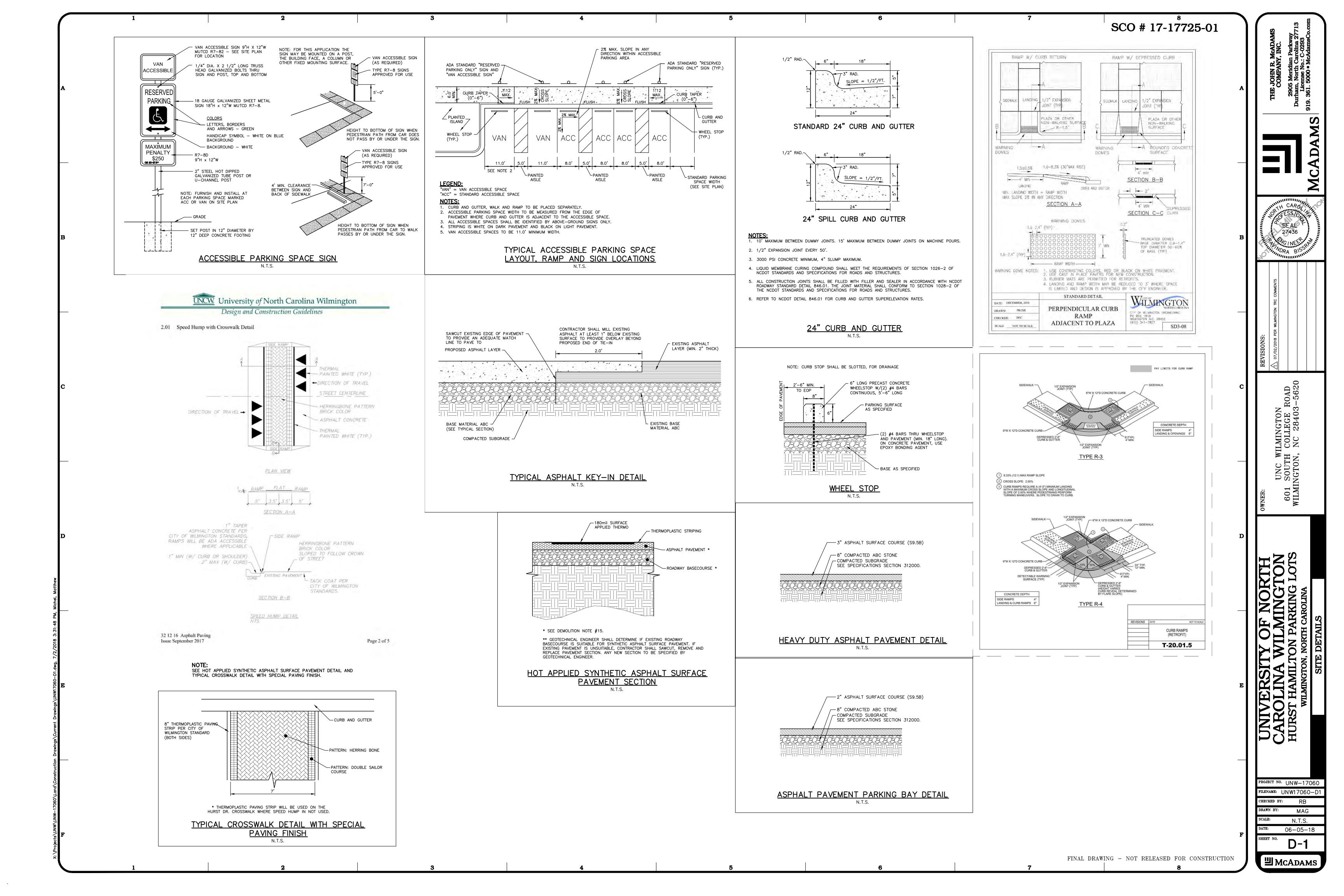
6' WIDE VEGETATED SHELF @ 6:1 SLOPE

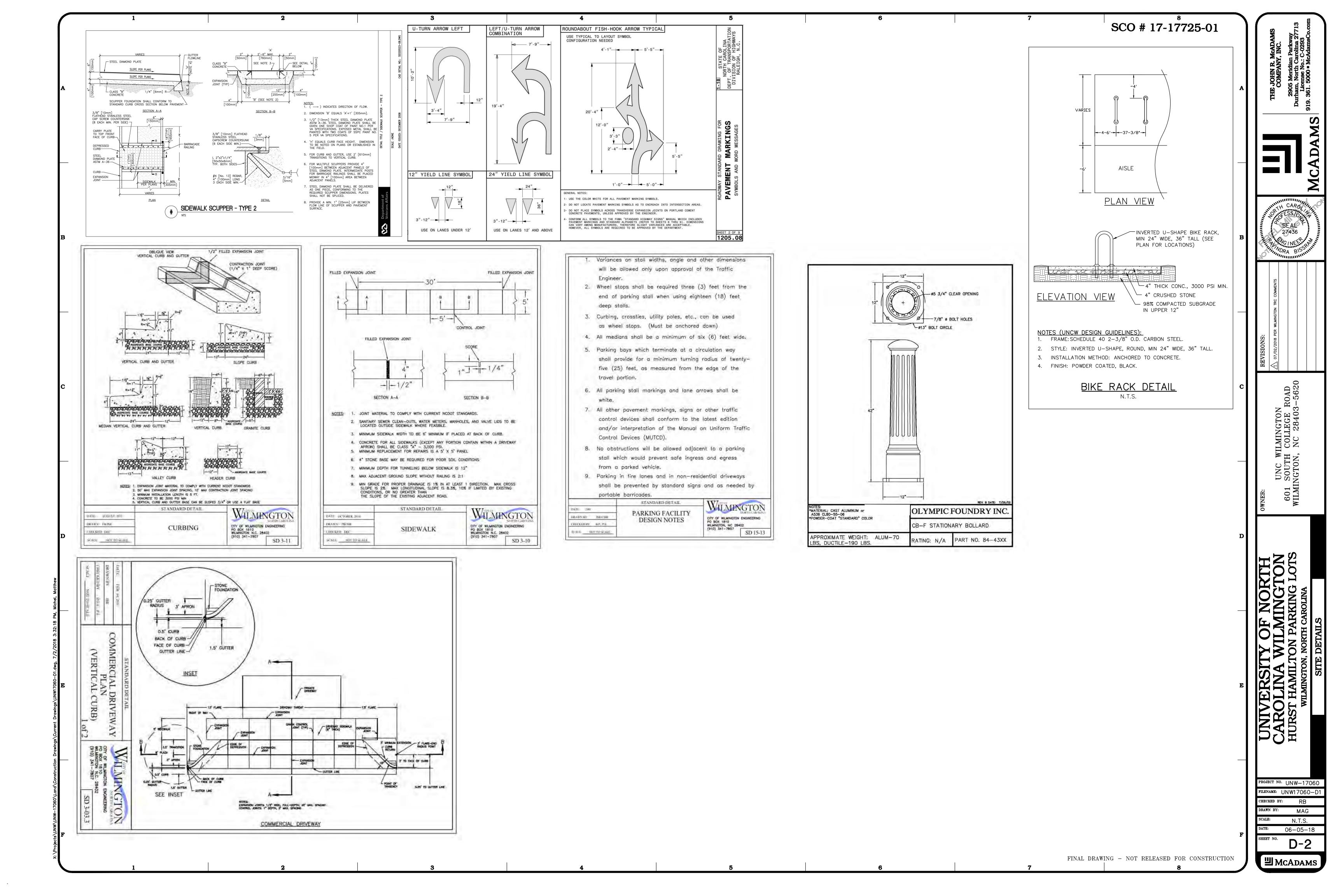
B. NECESSARY ADJUSTMENTS SHALL BE MADE ONLY AFTER APPROVAL BY THE OWNER

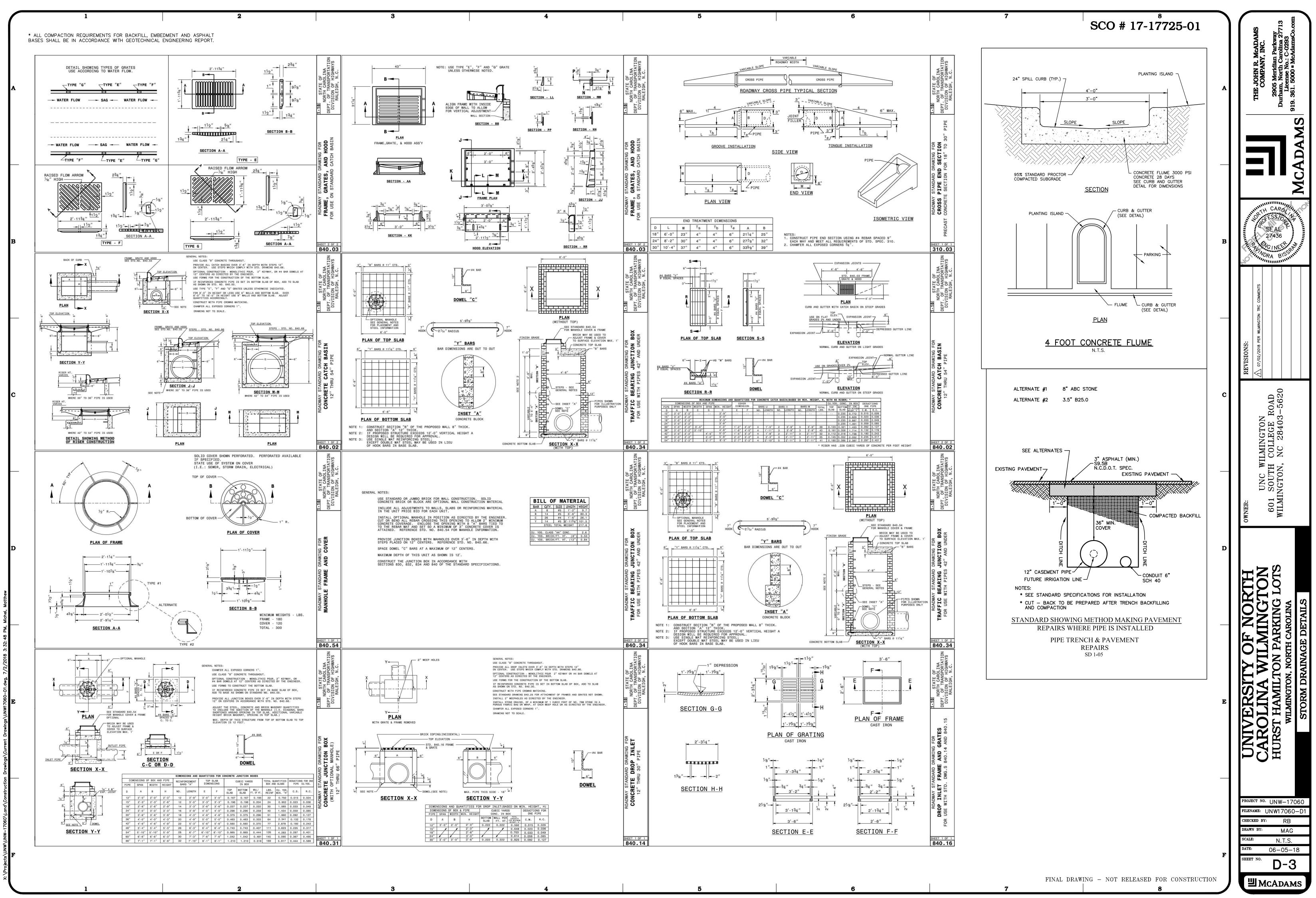
I. PLACE THE BACKFILL AROUND THE BASE AND SIDES OF THE ROOT MASS, AND WORK EACH LAYER TO SETTLE BACKFILL AND TO ELIMINATE VOIDS AND AIR

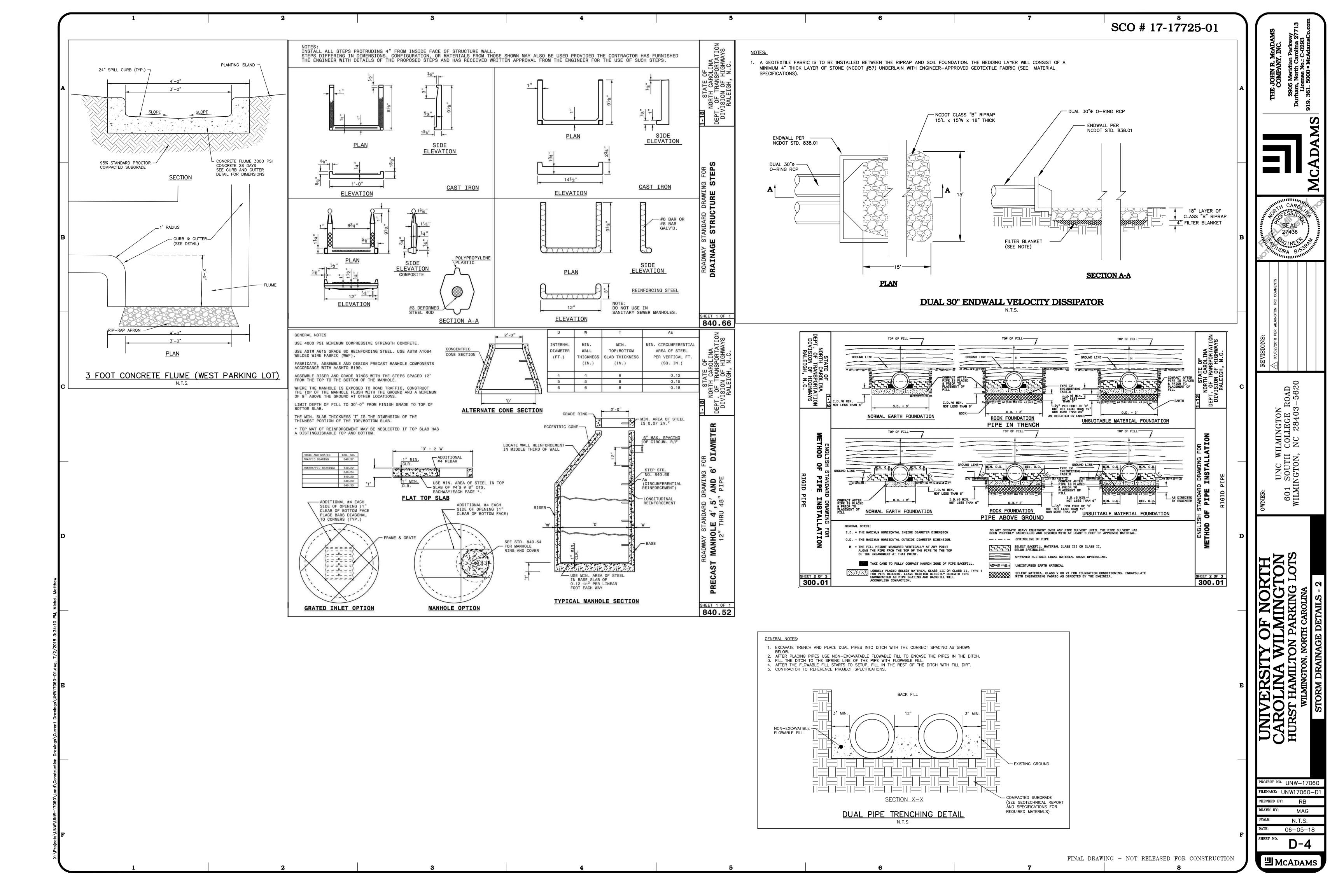


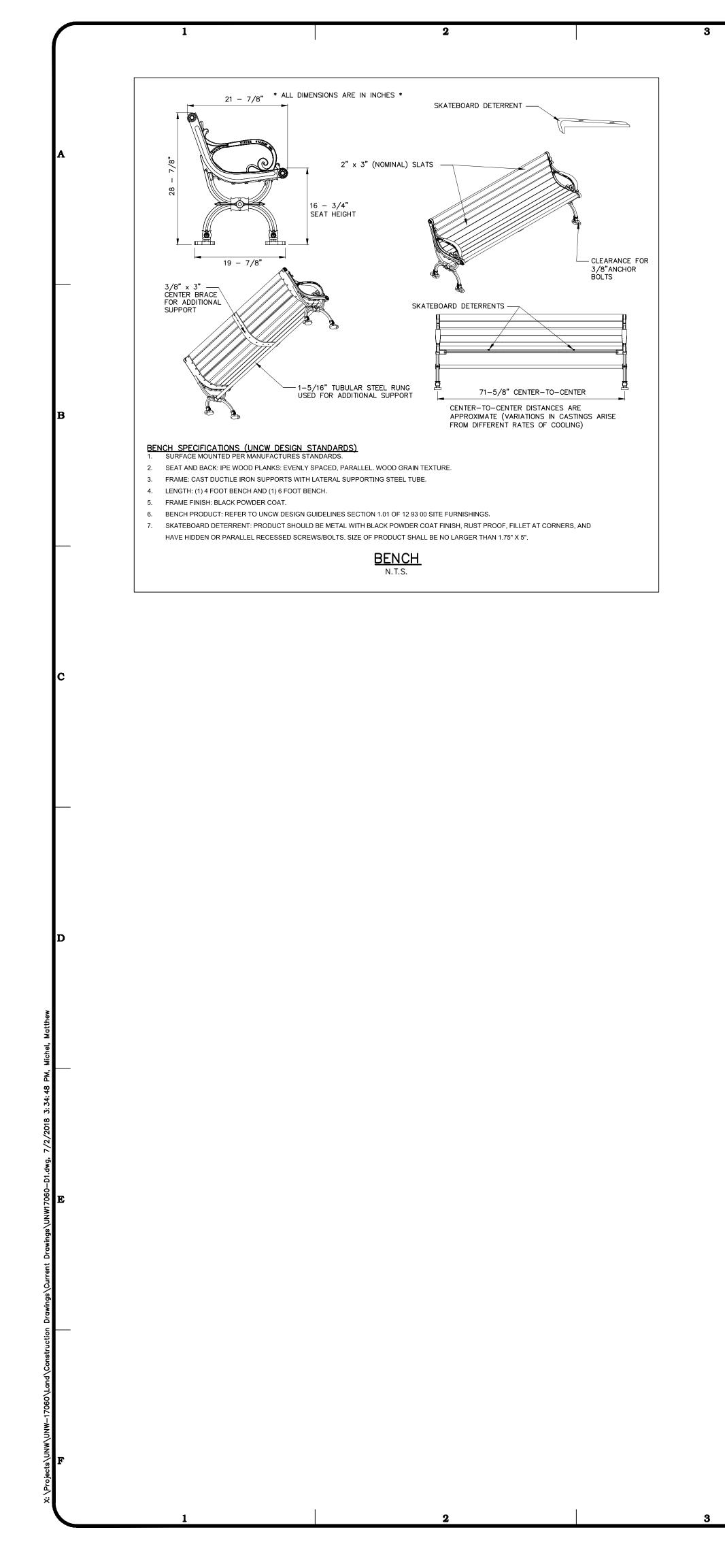








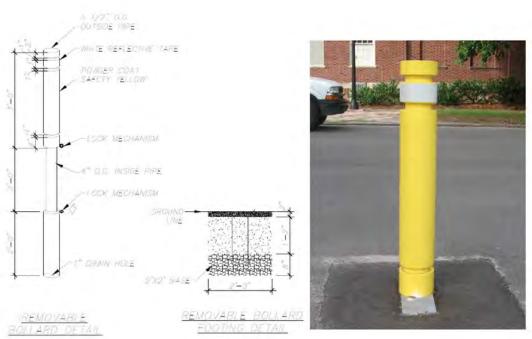




**<u>UNCW</u>** University of North Carolina Wilmington Design and Construction Guidelines

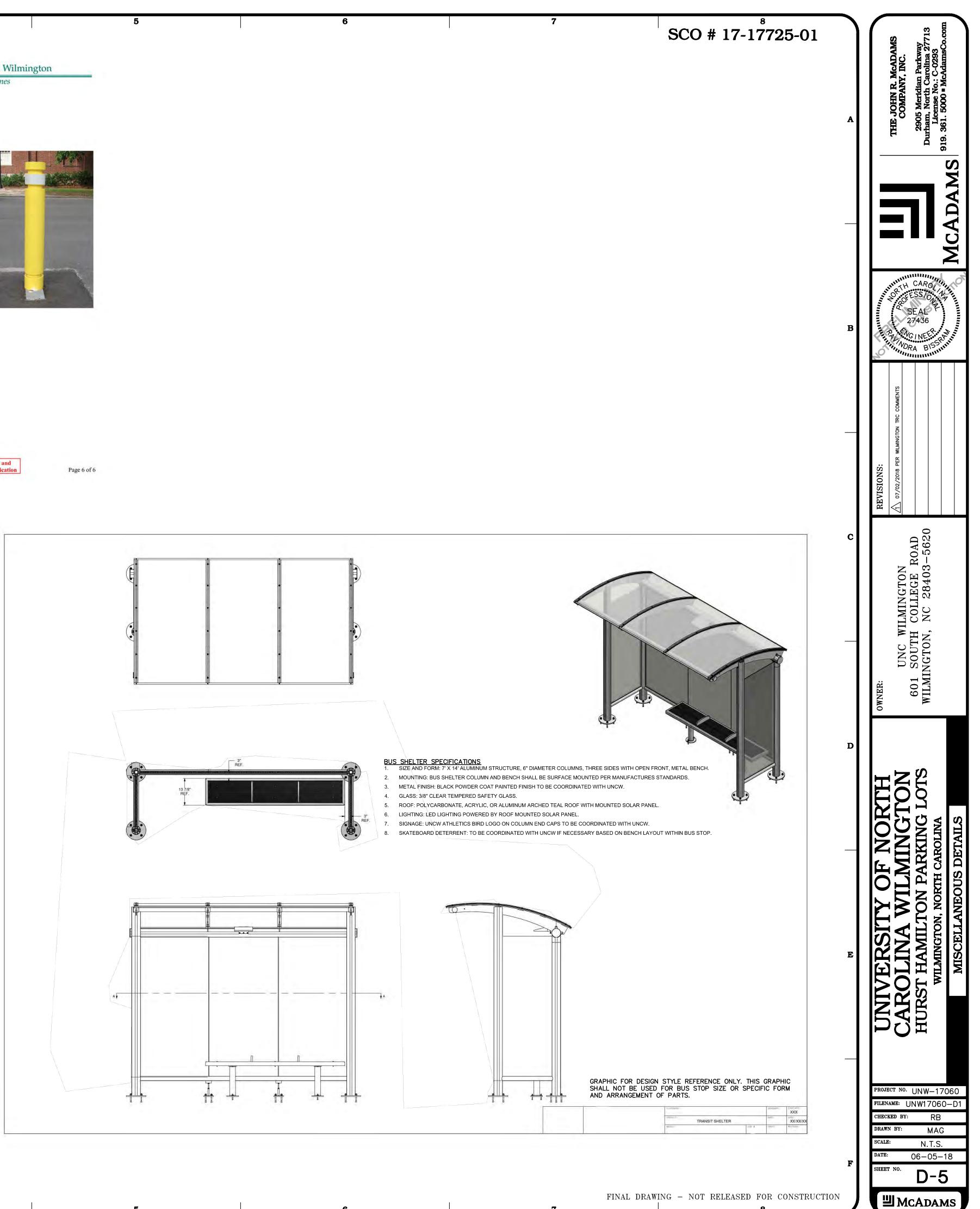
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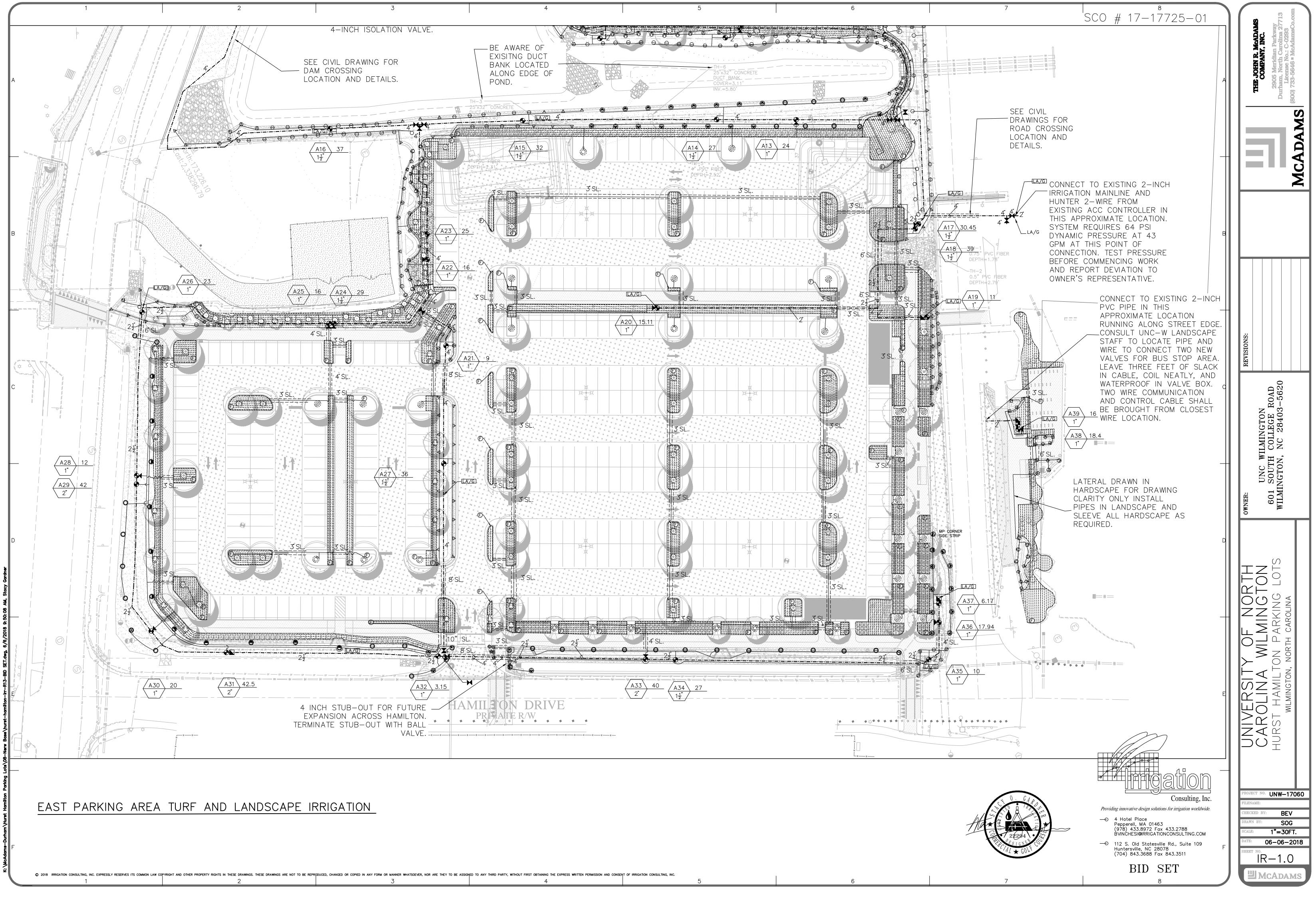
1.08 Parking Lot Removable Bollards

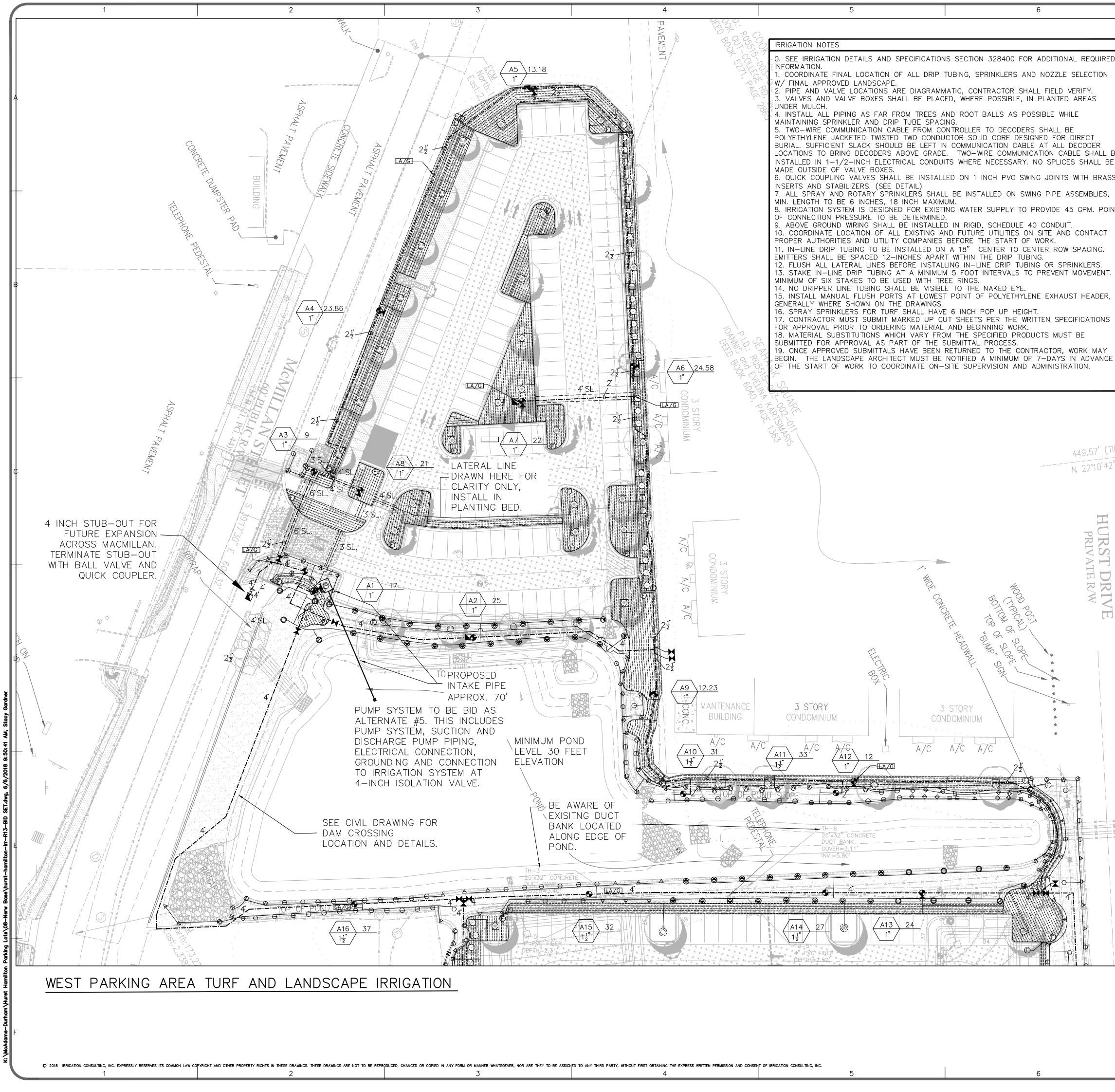


12 93 00 Site Furnishings Issue September 2017

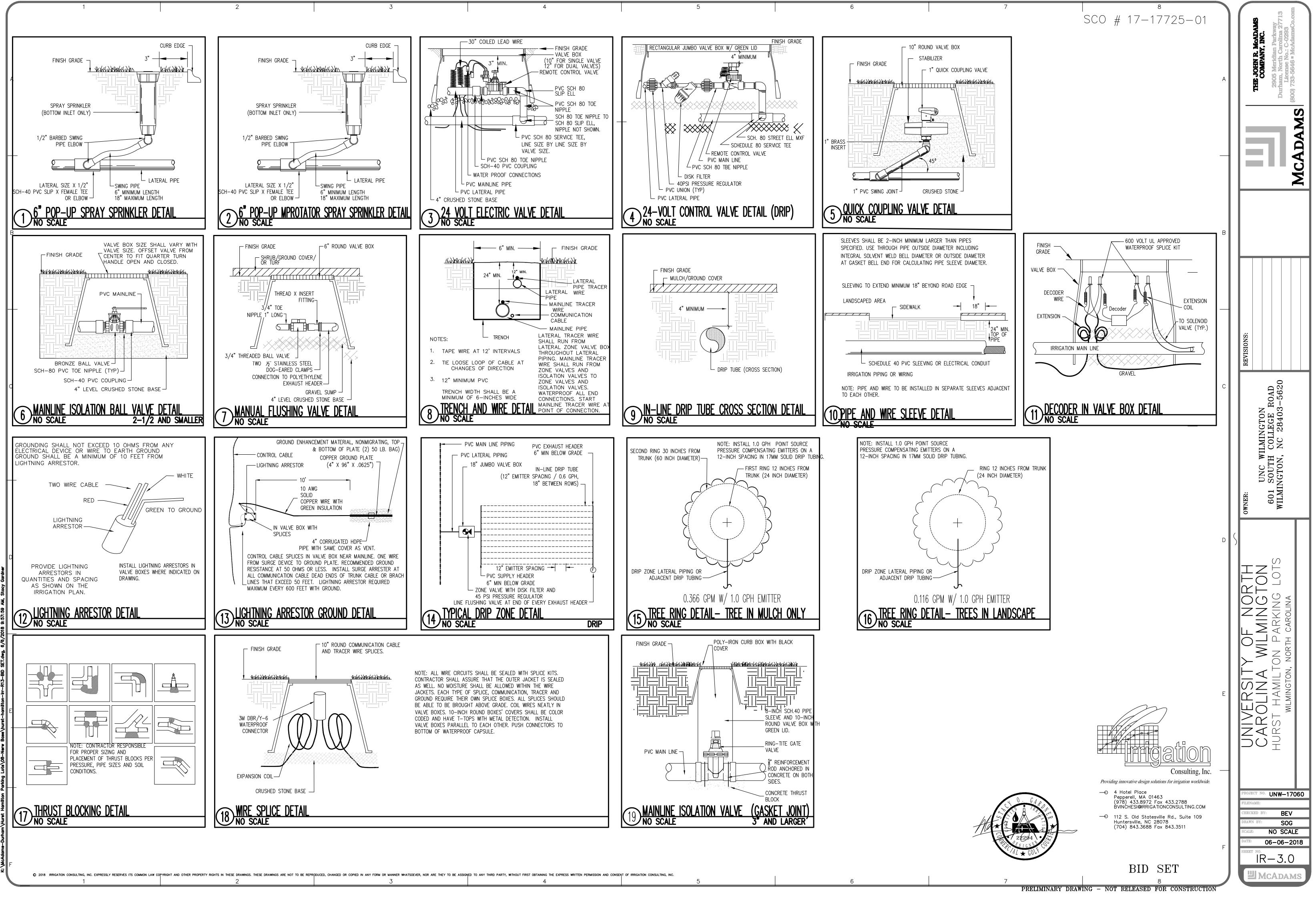
This document is a guideline and cannot be used as a final specification



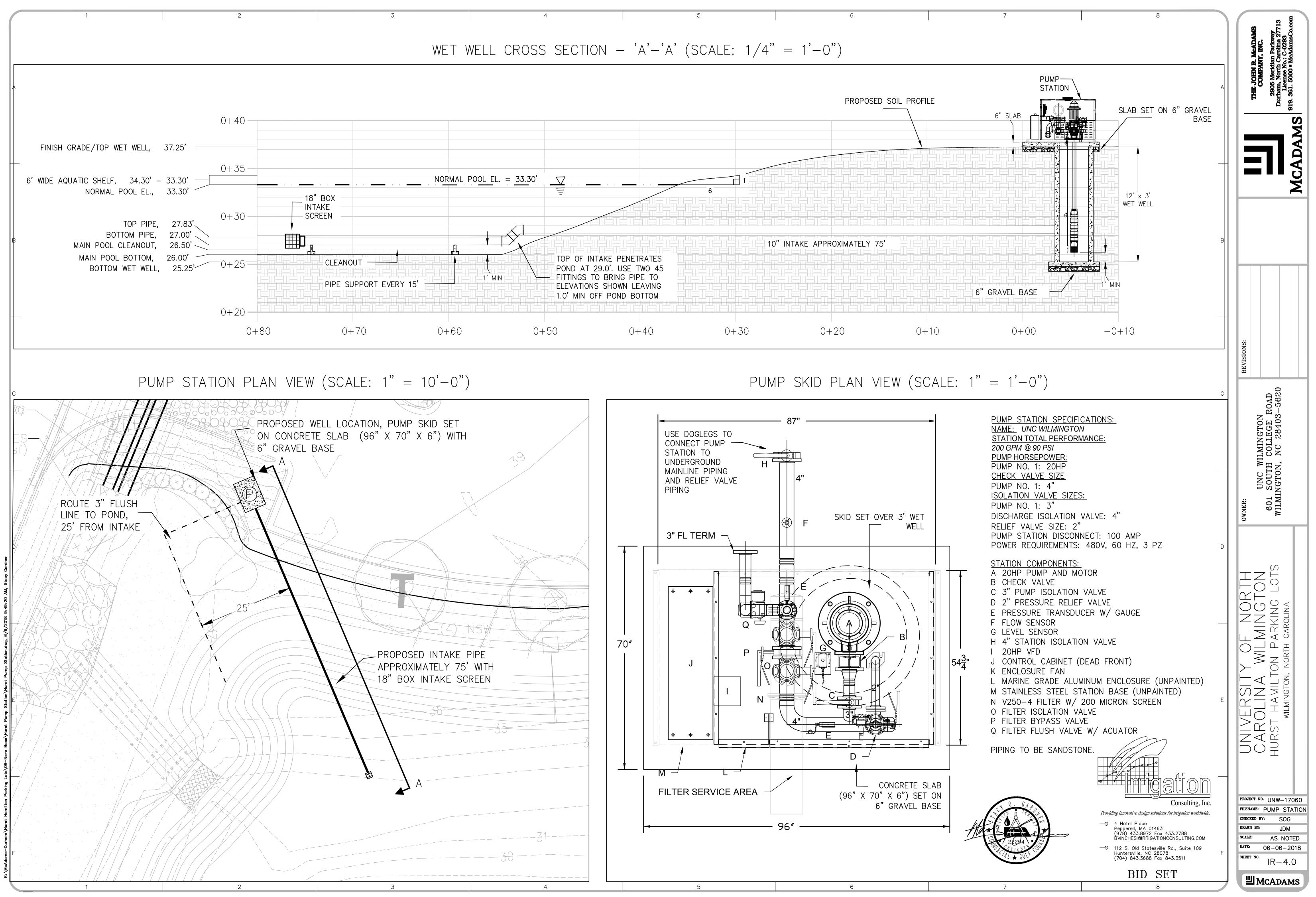




	IRRIGATION LEGE	IND	7	8 SCO # 17-17725-01		AMS vay 3 SCo.com
	SYMBOL	PSI	SPACING	DESCRIPTION		McADAMS 7, INC. 1 Parkway arolina 277 arolina 277 cAdamsCo.
D	Q H F	50	35'	SMALL ROTARY SPRINKLER WITH CHECK VALVE (STANDARD NOZZLES)		ANN
BE		40 40 40 40	25' 18' 15' 18'	MP3000 ROTARY NOZZLE ON 6-INCH SPRAY SPRINKLER MP2000 ROTARY NOZZLE ON 6-INCH SPRAY SPRINKLER MP1000 ROTARY NOZZLE ON 6-INCH SPRAY SPRINKLER MPCORNER ROTARY NOZZLE ON 6-INCH SPRAY SPRINKLER	A	Č (8)
S NT	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	30 30 30 30 30 30	15' 12' 10' 8' 5' 4'x30'	6—INCH POP UP SPRAY SPRINKLER W/ CHECK VALVE AND PRESS. REG.		MCADAMS
	$\bigcirc$	40	_	SOLID DRIP TUBING RING WITH POINT SOURCE PRESSURE COMPENSATING EMITTERS 1.0 GPH 12-INCH SPACING (SEE DETAILS)	В	
	[]]]]	40	12"×18"	IN-LINE EMITTER DRIP TUBING		
-	<ul> <li>•</li> <li>•&lt;</li></ul>	EQU ISOL 1" ( MAN	AL (SEE V) ATION BAL QUICK COUF IUAL FLUSH	TRIC ZONE VALVE HUNTER ICV-XXXG-DC-FS OR APPROVED ALVE DESIGNATOR FOR FLOW AND SIZES) L VALVE (SIZE AS INDICATED) PLING VALVE HUNTER HQ-44RC OR APPROVED EQUAL HING VALVE TRIC ZONE VALVE W/ DISK FILTER (DRIP) ESIGNATOR FOR FLOW AND SIZES)	_	IONS:
ΤΕ)  2"Ε		HUN OR CLA (SIZ CLA SCH ALL THR BEL CAL INS <sup>-</sup> MAII 1-1	С	: WILMINGTON TH COLLEGE ROAD N, NC 28403-5620		
	$\langle A \rangle$			NTROLLER EXISTING (SEE TWO WIRE POINT OF CONNECTION) 99D CONTROLLER- 45 STATIONS AVAILABLE		WNER: UNC W 601 SOUTH WILMINGTON,
	®	PUM	IP SYSTEM	(ALTERNATE BID #5)		owner: 601 WILM
	LA/G		ITNING ARR	ESTER W/ GROUND		۸٥ <sup>۲</sup>
	VALVE DESIGNAT	STA FLO	TION NO. W VE SIZE		D	NORTH NGTON KING LOTS OLINA
SD     50       : SD     50       : SD     50       : SS     50       : SS     50       : SD     50	LATERAL FLOW 0–10 G 11–20 G 21–30 G 31–40 G 41–60 G	GPM GPM GPM	1 INC 1-1/ 1-1/ 2 INC	E SIZE / TYPE CH CLASS 200 PVC (4 INCH CLASS 200 PVC (2 INCH CLASS-200 PVC CH CLASS-200 PVC (2 INCH CLASS-200 PVC	E	UNIVERSITY OF N CAROLINA WILMIN HURST HAMILTON PARKI WILMINGTON, NORTH CAROL
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			7	8		<b>MCADAMS</b>







	<b>AL ABBREVIATIONS:</b>					ELECTR	ICAL L
A, AMP AFF	AMPERE ABOVE FINISHED FLOOR	LP LTG	LIGHTING PANEL, LIGHT POLE LIGHTING			SYMBOL	DESCRIPTIC
AFG AHU	ABOVE FINISHED GRADE AIR HANDLING UNIT	MCB MCC	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER				EXISTING P
AIC ATS AWG	AMPERE INTERRUPTING CAPACITY AUTOMATIC TRANSFER SWITCH	MCP MDP MFR	MOTOR CIRCUIT PROTECTOR MAIN DISTRIBUTION PANEL			÷ ‡	EXISTING A
BOF BRKR	AMERICAN WIRE GAUGE BOTTOM OF FIXTURE BREAKER	MFK MH MLO	MANUFACTURER MANHOLE MAIN LUGS ONLY			<b>a</b>	
C, CND CAB	CONDUIT CABINET	MTD MTG	MOUNTED MOUNTING			J	JUNCTION E
CAT CL	CATALOG CHLORINE	MTS MV	MANUAL TRANSFER SWITCH MEDIUM VOLTAGE			Ð	WP - GFI -
CB CCTV	CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION	N, NEUT NA	NEUTRAL NOT APPLICABLE				TEST
CKT CLG CP	CIRCUIT CEILING	NC NEC	NORMALLY CLOSED NATIONAL ELECTRIC CODE	tan eta 1 ar		E	EXISTING EI
CP CR CS	CONTROL PANEL CONTROL RELAY, CORROSION RESISTANT	NIC NL NO	NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN			//////////////////////////////////////	
CV CT	CONTROL SWITCH CONTROL VALVE CURRENT TRANSFORMER	NTS P	NORMALL OPEN NOT TO SCALE POLE				
CU EF	COPPER EXHAUST FAN	PA PB	PUBLIC ADDRESS PULL BOX, PUSH-BUTTON				? - INDICA PH: ?,? - IN NOTE: POL
EMER EMT	EMERGENCY ELECTRICAL METALLIC TUBING	PF PH, φ	POWER FACTOR PHASE				
ENCL EQUIP EWC	ENCLOSURE EQUIPMENT	PLC PNL PP	PROGRAMMABLE LOGIC CONTR PANEL	OLLER			
EWC EWH EPRF	ELECTRIC WATER COOLER ELECTRIC WATER HEATER	PT PWR	POWER PANEL, POWER POLE POTENTIAL TRANSFORMER POWER			A	? - INDICA PH: ?,? - IN
FA FAAP	EXPLOSION PROOF FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL	RECPT, RCP REQ'D	RECEPTACLE REQUIRED			E .	NOTE: POL
FACP FBO	FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS	RGS RM	RIGID GALVANIZED STEEL CONI	DUIT			SINGLE HEA ? - INDICA
FLA FLUOR	FULL LOAD AMPS FLUORESCENT	RTU SCR	REMOTE TELEMETRY UNIT DC MOTOR DRIVE			~	PH: ?,? - IN NOTE: POL
FLR FWE GEN	FLOOR FURNISHED WITH EQUIPMENT	SH SM SPEC	SHEET SURFACE MOUNTED				
G, GND GFCI	GENERATOR GROUND	SFEC SS SST	SPECIFICATION SELECTOR SWITCH				CONDUIT, H
HH HID	GROUND FAULT CIRCUIT INTERRUPTER HANDHOLE HIGH INTENSITY DISCHARGE	SW SWBD	STAINLESS STEEL SWITCH SWITCHBOARD			F0	CONDUIT, H
HOA HP	HAND-OFF-AUTO HORSE POWER	SWGR TEL	SWITCH GEAR TELEPHONE			(X)F0	EXISTING FI
HPF HPS	HIGH POWER FACTOR HIGH PRESSURE SODIUM	TPS TVSS	TWISTED PAIR SHIELDED TRANSIENT VOLTAGE SURGE S	UPPRESSER			
HTR HV	HEATER HIGH VOLTAGE	TYP UGND	TYPICAL UNDERGROUND				
Hz IMC INCAND	HERTZ INTERMEDIATE METALLIC CONDUIT	UH UON UTIL	UNIT HEATER UNLESS OTHERWISE NOTED				
JB K	INCANDESCENT JUNCTION BOX	V VFD	UTILITY VOLTS VARIABLE FREQUENCY DRIVE				ENL
KCMIL KVA	THOUSAND THOUSAND CIRCULAR MILLS KILOVOLT AMPERE	W WH	WIRE, WATT WATT-HOUR				
KW KWH	KILOWATTS KILOWATT-HOURS	WP XFMR	WEATHERPROOF TRANSFORMER				
1. ALL ELECTR ALL LOCAL C	RICAL GENERAL NOT	A 70 OF THE NORTH (	EXISTING CAROLINA STATE BUILDING CODE, OF THE LOCAL AUTHORITY	AS RE	QUIRED	NSIONED, DEVICE LOC TO SERVE THE INTEN	DED PURPOSE A
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PLACE ALL SLEEVES F LOTS FOR ELECTRICA WATERPROOFED SUR AND OTHER VIBRATING DN (18 INCH MINIMUM) CONDUCTOR SHALL BE D GROUNDING CLAMP O UNTED JUNCTION, AND LLS SHALL BE SUPPOF NT. AND TRENCHING REQU IALL BE PROVIDED BY NS. INCHING IN ANY AREA, SION, GAS AND WATEF RGROUND UTILITIES O	DED PURPOSE A S SHALL BE AS IN HE ARCHITECTU ARCHITECT/ENG IN ON DRAWINGS TIONAL CONDUCT DUGH EXTERIOR ALL WIRING DEV ND LISTED FOR ROUND WHERE P AR EXISTING FAC LLEL TO OR AT F URS AS MUCH AS AND TRUE. RUN KE BENDS IN PAF FOR CONDUITS P L WORK AND FO FOR CONDUITS P L WORK AND FO FACES SHALL RI OF FLEXIBLE CO FRACES SHALL RI OF FLEXIBLE CO INSTALLED INSI OR LUG. D PULL BOXES, RU RTED BY SPACEF JIRED FOR THE II THE CONTRACT R STRUCTURES ALL BE IDENTIFIE

L LEGEND	
ITING PANEL	
TING AND NEW WALKWAY POLE LIGHTS	
CTION BOX - NEMA 3R	
EPTACLE, DUPLEX, 120VAC, 20A WP - LISTED WEATHER-RESISTANT TYPE DEVICE WITH WEATHERPROOF IN USE COVER GFI - GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED 24" AFF LOCATE GFI TEST SWITCH IN A READILY ACCESSIBLE LOCATION	
TING EMERGENCY CALL BOX, 240V AND 480V OPTIONS WHEN INDICATED ON SCHEDULE/PLAN	
D HEAD POLE MOUNTED PARKING LOT LIGHT, (QUAD CROSS ARM) - INDICATES FIXTURE TYPE & NUMBER (SEE FIXTURE SCHEDULE) I: ?,? - INDICATES 480V SINGLE PHASE FIXTURE SHALL BE CONNECTED TO 480V CIRCUIT E: POLES SHALL HAVE NORTH CAROLINA APPROVED 3RD PARTY LISTING.	
IBLE HEAD POLE MOUNTED PARKING LOT LIGHT, (DOUBLE CROSS ARM) - INDICATES FIXTURE TYPE & NUMBER (SEE FIXTURE SCHEDULE) I: ?,? - INDICATES 480V SINGLE PHASE FIXTURE SHALL BE CONNECTED TO 480V CIRCUIT E: POLES SHALL HAVE NORTH CAROLINA APPROVED 3RD PARTY LISTING.	
GLE HEAD POLE MOUNTED PARKING LOT LIGHT, (SINGLE CROSS ARM) - INDICATES FIXTURE TYPE & NUMBER (SEE FIXTURE SCHEDULE) I: ?,? - INDICATES 480V SINGLE PHASE FIXTURE SHALL BE CONNECTED TO 480V CIRCUIT E: POLES SHALL HAVE NORTH CAROLINA APPROVED 3RD PARTY LISTING.	
IDUIT, HOME RUN TO PANEL BOARD	
IDUIT, HOME RUN TO PANEL BOARD	
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TING FIBER OPTIC CONDUIT	
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DRAWING SHEET PLAN, DETAIL OR SECTION APPEARS ON	

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IN ON THE DRAWINGS ARE APPROXIMATE. ADJUST EXACT LOCATIONS AND TO AVOID CONFLICTS AND INTERFERENCES WITH OTHER INDICATED ON THE ARCHITECTURAL DRAWINGS OR AS	25.	FINAL TYPED PANELBOARD DIRECTORIES INSTALLED IN THE PANELBOARD DOOR POCKET SHALL INCLUDE THE GENERAL DESCRIPTION SHOWN ON THE PANEL SCHEDULES ON THE DRAWINGS.	39.	THE ELECTRICA VENDOR EQUIP ROUGH-IN.
TURAL DRAWINGS OR DIMENSIONED ON THE ELECTRICAL DRAWINGS, NGINEER PRIOR TO ROUGH-IN.	26.	CONDUCTOR SIZING IS BASED ON 75 DEGREE C. COPPER NEC RATINGS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THE ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C. WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH	40.	DATA CABLES: UNCW ITS STAN
GS INDICATE PHASE CONDUCTORS, NEUTRAL, EQUIPMENT GROUND JCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT		LESS THAN 75 DEGREE C. CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY FOR EVALUATION/CORRECTION.		EMPTY CONDU
OR BUILDING WALLS WATERTIGHT.	27.	DO NOT PULL CONDUCTORS UNTIL THE CONDUIT SYSTEM IS COMPLETE IN EVERY DETAIL. IN THE CASE OF CONCEALED WORK, "COMPLETE" MEANS UNTIL ALL ROUGH PLASTERING OR MASONRY HAS BEEN COMPLETED.		INCLUSION IN T
EVICES SHALL BE WEATHER-RESISTANT LISTED. LIGHTING FIXTURES R THE ENVIRONMENT.	28.	COMMON NEUTRAL MULTIWIRE BRANCH CIRCUITS ARE NOT PERMITTED. PROVIDE SEPARATE, INDIVIDUAL NEUTRAL CONDUCTORS FOR MULTIWIRE BRANCH CIRCUITS.	42.	PROTECT ALL E SYSTEMS AND ARCHITECT/EN A PROPOSED C
POSSIBLE IF APPLICABLE, MATCH EXISTING RACEWAY INSTALLATION ACCILITIES.	29.	KEEP CONDUCTOR SPLICES TO A MINIMUM. INSTALL SPLICES AND TAPES THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN CONDUCTORS BEING SPLICED. USE SPLICE AND TAP		MAINTAIN SERV
T RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AS POSSIBLE. NO DIAGONAL RUNS WILL BE ALLOWED. ALL RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE		CONNECTORS COMPATIBLE WITH CONDUCTOR MATERIAL. SPLICES SHALL BE MADE IN UL APPROVED JUNCTION BOXES, SPLICES SHALL NOT BE MADE IN CONDUIT. INSTALL CONDUCTORS AT EACH OUTLET WITH AT LEAST 12 INCHES OF SLACK. CONNECT OUTLETS AND COMPONENTS TO WIRING AND TO GROUND AS INDICATED AND INSTRUCTED BY THE MANUFACTURER.	43.	THE CONTRACT REQUIRED AND OCCUR. ALL CI CONCRETE AND BE PERFORMED
	30.	DO NOT SPLICE BRANCH CIRCUIT HOMERUNS WITHOUT THE PERMISSION OF THE ARCHITECT/ENGINEER. HOMERUNS SHALL BE CONTINUOUS FROM THE LAST EQUIPMENT TO THE SERVING PANELBOARD.	ta sa ta A	THE ARCHITEC
S PENETRATING WALLS, FLOORS, PARTITIONS, ETC. LOCATE ALL FORM BEFORE CONCRETE IS POURED.	31.	DO NOT COMBINE BRANCH CIRCUIT HOMERUNS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.	44.	THE EXISTING E THE OWNER'S F OF INDICATING
RENDER THE AREA OF THE PATCHING COMPLETELY WATERPROOF.	32.	DO NOT CHANGE CIRCUITING SHOWN WITHOUT PERMISSION OF THE ARCHITECT/ENGINEER.		SHALL VERIFY
SHALL BE CONNECTED TO THE CONDUIT SYSTEM BY MEANS OF A CONDUIT UNLESS OTHERWISE INDICATED. AN EQUIPMENT ISIDE THE FLEXIBLE CONDUIT AND TERMINATE AT THE LOAD END WITH	33.	PROVIDE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH THE NEC INCLUDING ALL EXTERIOR CIRCUITS IN AREAS SUBJECT TO POSSIBLE WET CONDITIONS.	45.	THE CONTRACT
	34.	COORDINATE LIGHTING FIXTURE LOCATIONS WITH THE CIVIL DRAWINGS. IF CONFLICTS ARE NOTED, REQUEST CLARIFICATION FROM THE ENGINEER BEFORE PROCEEDING.		UNDER WHICH GOVERNING HI
RACEWAYS, ETC., INSTALLED ON EXTERIOR SURFACES OR INSIDE ON ERS TO PROVIDE A 1/4" MINIMUM CLEARANCE BETWEEN THE WALL	35.	WHERE THE DRAWINGS INDICATE A LIGHTING FIXTURE IS TO BE PROVIDED WITH SPECIAL FEATURES/SWITCHING (DIMMING, EMERGENCY BATTERY BALLAST, MULTI-LEVEL, ETC), THE CONTRACTOR SHALL PROVIDE THESE FIXTURES	46.	EXISTING JOB ( SAFETY: COMP
E INSTALLATION OF ELECTRICAL POWER AND TELECOMMUNICATIONS		WITH THE APPROPRIATE BALLASTING TO ACCOMMODATE THE SPECIAL FEATURE. THE CONTRACTOR SHALL PROVIDE THE FIXTURES AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE WITH MODIFICATIONS AS REQUIRED BY DRAWING NOTES.	47.	THE STATE COI ON THIS PROJE
	36	COORDINATE LOCATIONS OF DATA AND OWNER-PROVIDED WITH THE RESPECTIVE CONTRACTORS AND VENDORS AND		ELECTRICAL IN
CTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS/DATA/FIBER, VIDERS AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. DAMAGE	50.	THE OWNER BEFORE ROUGH-IN. ADVISE THE ENGINEER OF CONFLICTS BEFORE ROUGH-IN.		WORK WILL BE SCO INSPECTO
ES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL	37.	UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR PROVIDING THE EQUIPMENT SHALL MAKE FINAL CONNECTIONS TO HIS EQUIPMENT. IF ELECTRICAL REQUIREMENTS DIFFER FROM THOSE SHOWN ON THE DRAWINGS, THE CONTRACTOR PROVIDING THE EQUIPMENT SHALL BE RESPONSIBLE FOR DESIGN AND CONSTRUCTION COSTS		
FIED BY UNDERGROUND LINE MARKING TAPE LOCATED DIRECTLY INISHED GRADE. SEE SPECIFICATIONS SECTION 260553.	28	ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEM TO MATCH UTILIZATION EQUIPMENT.		
ED TO TURN UP INTO CABINETS, EQUIPMENT, ETC., AND ON TO POLES, THE SLAB OR EARTH SHALL BE OF PLASTIC-COATED RIGID STEEL.	JO,			
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**CADAMS** Σ 05-04-201 C WILMINGTON UTH COLLEGE ROAD 'ON, NC 28403-5620 UNC 601 SOU7 WILMINGTO HU LMINGT PARKING L 7 OF UNIVERSITY O CAROLINA WIL HURST HAMILTON F project no. UNW-17060 FILENAME: CHECKED BY: WAC DRAWN BY: HGH SCALE: AS NOTED DATE 05-04-2018 HEET N **E-1** McAdams

CAL CONTRACTOR SHALL COORDINATE ALL EQUIPMENT TERMINATIONS, PLUGS AND CORDSETS WITH IPMENT AND VERIFY ALL DEVICE LOCATIONS FOR SPECIALITY EQUIPMENT WITH CASEWORK PRIOR TO

: CONTRACTOR INSTALLING DATA LINES, FIBER OPTIC CABLING, SHALL MEET REQUIREMENTS IN THE ANDARDS FOR INSTALLATION. LEAVE PULL WIRES OR ROPES OF ADEQUATE TENSILE STRENGTH IN ALL UITS.

N INFORMATION PACKED WITH LIGHTING FIXTURES, DEVICES AND EQUIPMENT SHALL BE RETAINED FOR THE OPERATIONS AND MAINTENANCE MANUALS.

EXISTING POWER, COMMUNICATIONS, DATA, LIFE SAFETY SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS O MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND NGINEER IF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF OUTAGE CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO RVICE.

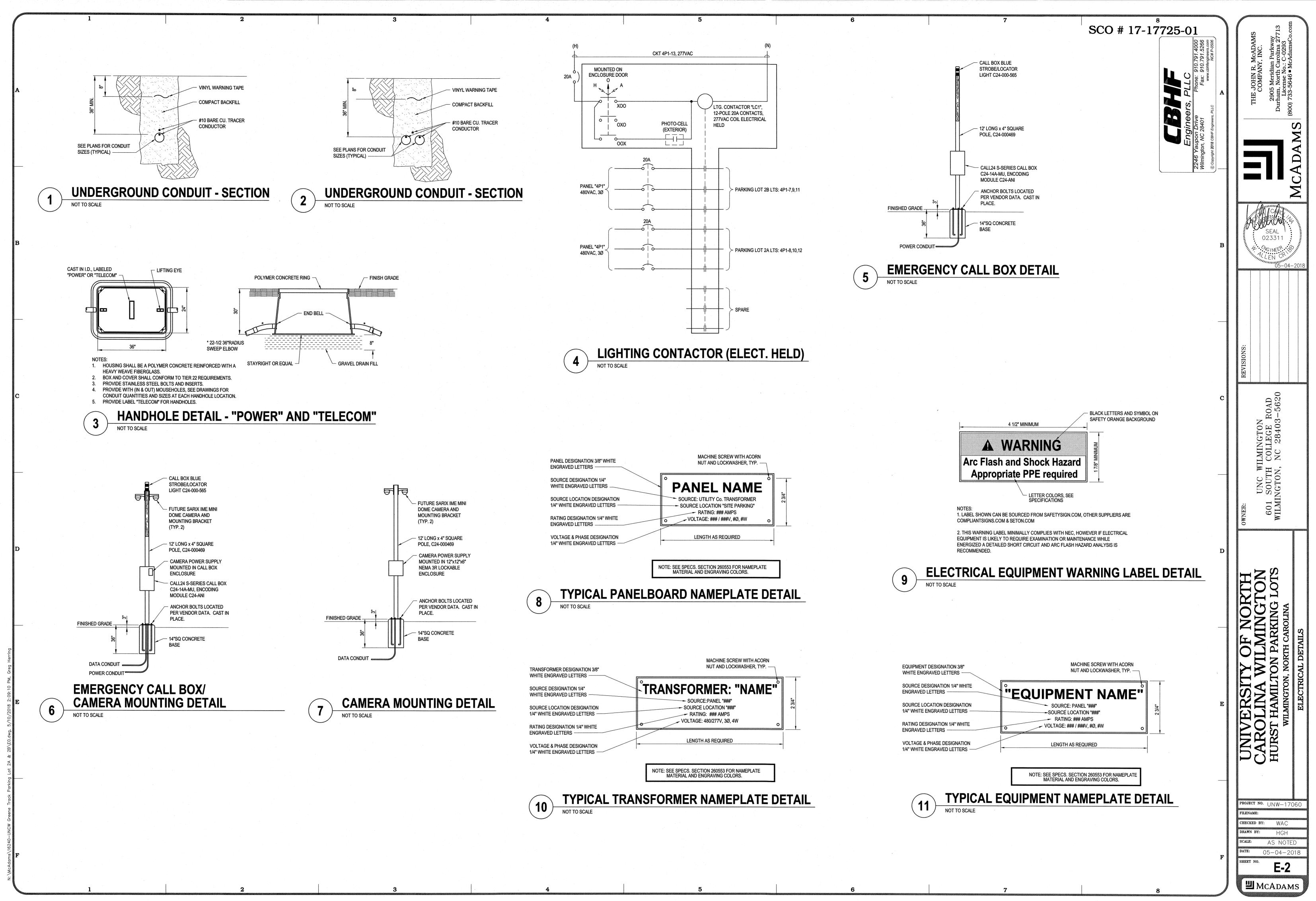
CTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY TO INSTALL ALL EQUIPMENT AS ID SHALL REESTABLISH ALL FINISHES TO THEIR ORIGINAL CONDITION WHERE CUTTING AND PATCHING CUTTING AND PATCHING SHALL BE DONE IN A THOROUGHLY WORKMANSHIP MANNER. SAW CUT ND MASONRY PRIOR TO BREAKING OUT SECTIONS. ALL PATCHING MATERIALS AND WORKMANSHIP SHALL ED BY TRADESMEN EXPERIENCED IN THAT WORK. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF CT/ENGINEER.

ELECTRICAL SYSTEMS DEPICTED ON THESE DRAWINGS HAVE BEEN COMPILED BY THE ENGINEER FROM RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF THE EXISTING CONDITIONS FOR THE PURPOSE G THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR ( ALL DIMENSIONS, POINTS OF ACCESS AND FIELD CONDITIONS AFFECTING HIS WORK.

CTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING ELECTRICAL SYSTEMS AND THE LDING. THE SUBMISSION OF THE PROPOSAL BY THE CONTRACTOR SHALL BE CONSIDERED EVIDENCE HIS REPRESENTATIVE HAS VISITED THE SITE AND BUILDINGS AND NOTED THE LOCATION AND CONDITIONS H THE WORK WILL BE PERFORMED AND THAT HE TAKES FULL RESPONSIBILITY OF ALL FACTORS HIS WORK. NO EXTRAS WILL BE CONSIDERED BECAUSE OF ADDITIONAL WORK NECESSITATED BY CONDITIONS THAT ARE NOT INDICATED ON THE DRAWINGS.

IPLY WITH OSHA AND NEC ARC FLASH PROTECTION REQUIREMENTS.

ONSTRUCTION OFFICE IS THE AUTHORITY HAVING JURISDICTION (AHJ) FOR THE ELECTRICAL INSPECTIONS JECT. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY THE STATE PROPERTY NSPECTORS OF THE STATE CONSTRUCTION OFFICE, TO SCHEDULE THE REQUIRED INSPECTIONS. NO E COVERED UP UNTIL AFTER THE INSPECTION HAS BEEN COMPLETED AND APPROVED BY AN AUTHORIZED



TRANSFORMER DESIGNATION 3/8" WHITE ENGRAVED LETTERS	MACHINE SCREW WITH ACORN NUT AND LOCKWASHER, TYP.
SOURCE DESIGNATION 1/4" WHITE ENGRAVED LETTERS	<b>TRANSFORMER: "NAME"</b>
SOURCE LOCATION DESIGNATION 1/4" WHITE ENGRAVED LETTERS	- SOURCE:PANEL "###" - SOURCE LOCATION "###" - RATING: ### AMPS
RATING DESIGNATION 1/4" WHITE ENGRAVED LETTERS	VOLTAGE: 480/277V, 3Ø, 4W         0
VOLTAGE & PHASE DESIGNATION 1/4" WHITE ENGRAVED LETTERS	LENGTH AS REQUIRED
	NOTE: SEE SPECS. SECTION 260553 FOR NAMEPLATE MATERIAL AND ENGRAVING COLORS.