SITE IMPROVEMENTS FOR

E5 PARKING LOT GREENSPACE

LOCATED IN COLUMBIA, SC

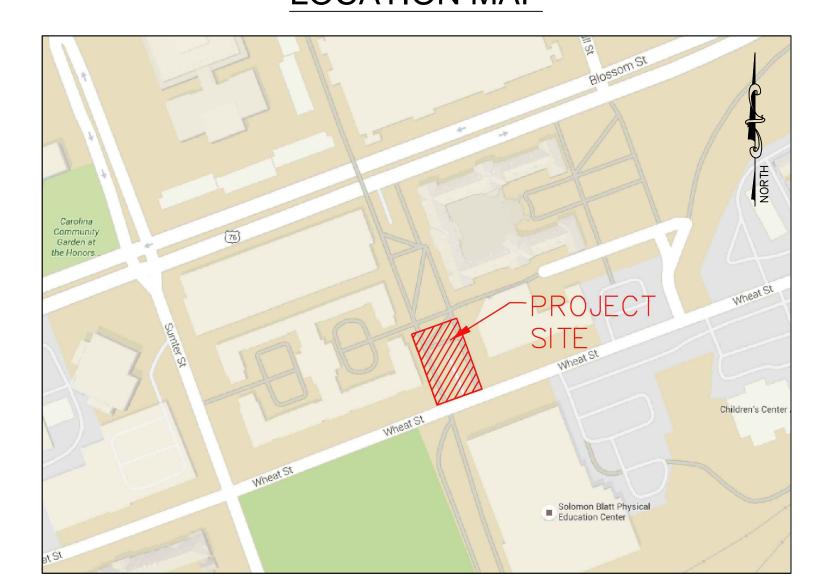
PREPARED FOR

THE UNIVERSITY OF SOUTH CAROLINA

PREPARED BY

4D ENGINEERING

LOCATION MAP



SCALE: 1"=200'

DRAWING INDEX

- COVER

NOTES

EXISTING CONDITIONS & DEMOLITION PLAN

INITIAL SEDIMENT & EROSION CONTROL PLAN

C4 - SITE LAYOUT PLAN

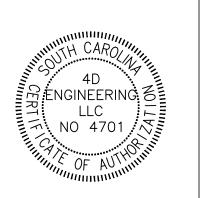
GRADING & DRAINAGE PLAN

- FINAL STABILIZATION & LANDSCAPING PLAN

- SEDIMENT & EROSION CONTROL DETAILS

- CONSTRUCTION DETAILS

WWW.4DENGR.COM





REVISIONS			
	DESCRIPTION	DATE	

SCALE: NTS PROJ NO: 16015 C0

APRIL 13, 2016

OWNER/DEVELOPER: UNIVERSITY OF SOUTH CAROLINA 743 GREENE STREET COLUMBIA, SC 29208 EFJONES@FMC.SC.EDU

ENGINEER: 603 S LAKE DRIVE LEXINGTON, SC 29072 (803) 356-0909 4DENGR@4DENGR.COM

REFERENCES

- 1. BOUNDARY & TOPOGRAPHIC SURVEY PERFORMED BY COX AND DINKINS, INC. PROVIDED TO 4D ENGINEERING IN DIGITAL FORMAT ON APRIL 11, 2016.
- 2. TAX MAP NUMBER R11303-08-02.

GENERAL NOTES:

- 1. SOME UTILITIES MAY EXIST AT THE SITE THAT WERE NOT ABLE TO BE LOCATED BY TYPICAL SURVEY METHODS. CALL PALMETTO UTILITY PROTECTION SERVICE, AT (888) 721-7877, FOR ALL UNDERGROUND UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- 2. COORDINATE WITH USC PROJECT MANAGER FOR MARKING OF USC UTILITIES PRIOR TO CONSTRUCTION.
- VERIFY ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DIFFERING SITE CONDITIONS
- ARE NOTED. 4. UNLESS OTHERWISE DIRECTED BY THE OWNER, ALL ITEMS MARKED FOR DEMOLITION SHALL BE COMPLETELY REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY.
- 5. REPAIR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AT NO ADDITIONAL COST TO THE OWNER.

SITE INFORMATION:

- PROPERTY IS IDENTIFIED AS TMS: R11303-08-02
- 2. PROPERTY ADDRESS IS 324 SUMTER STREET
- 3. EXISTING USE: PARKING LOT
- 4. PROPOSED USE: GREENSPACE
- 5. SETBACKS FROM ADJACENT DEVELOPMENT: 25' FRONT SETBACK 10' REAR SETBACK 5' SIDE SETBACK
 - DISTURBED AREA IS 4,995 SQUARE FEET

STORM DRAINAGE & GRADING NOTES:

- WHEN GRADING BETWEEN SPOT ELEVATIONS, GRADE ON A UNIFORM
- BEFORE BEGINNING GRADING ACTIVITIES, INSTALL ALL PERIMETER EROSION CONTROL MEASURES SUCH AS SILT FENCING, SEDIMENT TUBES, ECT TO PREVENT ANY POTENTIAL OFFSITE SEDIMENTATION.
- FINISH SURFACES TO WITHIN 0.10' OF THE FINAL ELEVATIONS SHOWN ON THE PLANS.
- BEGIN PIPE INSTALLATION AT DOWNSTREAM END OF RUN AND LAY PIPE UPGRADE AT THE GRADES SPECIFIED ON THE PLANS.
- FIELD VERIFY EXACT ELEVATIONS AT ALL TIE IN LOCATIONS WITH EXISTING FINISHED SURFACES PRIOR TO CONSTRUCTION.

UTILITY NOTES:

- VERIFY EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTACT THE ENGINEER IMMEDIATELY IF FIELD CONDITIONS DIFFER FROM THE PLANS.
- INSTALL TEMPORARY FENCING AROUND ALL EXCAVATED AREAS AND PROVIDE OTHER SAFETY MEASURES NEEDED.
- FIELD ADJUST CLEANOUTS, HYDRANTS, VALVES, AND APPURTENANCES TO MATCH FINISHED GRADE.
- 4. ALL UTILITIES THAT CROSS SEWER SHALL BE SEPARATED BY 18" OF VERTICAL SEPARATION AND THE SEWER SHALL BE INSTALLED BELOW THE OPPOSING UTILITY WHEREVER POSSIBLE.
- ALL WORK AND MATERIALS MUST CONFORM TO LOCAL/STATE REGULATIONS AND SPECIFICATIONS.

SCDHEC STANDARD SEDIMENT & EROSION CONTROL NOTES:

- 1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED. EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 10. LITTER. CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- 11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS. FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- 12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
- -WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL
- -WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS. CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS -FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE
- -SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- 18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

ADDITIONAL SEDIMENT & EROSION CONTROL NOTES:

- 1. INSTALL SILT BARRIERS AS SHOWN ON THE PLAN SHEETS. SILT BARRIERS SHALL BE MAINTAINED AND KEPT IN WORKING CONDITION UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SILT FENCING SHOULD BE CLEANED OR REPLACED WHEN SILT ACCUMULATION REACHES 1/3 THE HEIGHT OF THE FENCE.
- ALL DISTURBED AREAS THAT WILL NOT BE PAVED SHALL BE GRASSED. TEMPORARY GRASSING, MULCHING, OR OTHER STRUCTURAL MEASURES MAY BE REQUIRED TO PREVENT EROSION.
- 3. ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL CLEARED AND GRADED AREAS SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED. ANY ERODED AREAS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION AND PROTECTED FROM FURTHER EROSION AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. CONTRACTOR TO DAILY REMOVE MUD/SOIL FROM PAVEMENT AS REQUIRED.
- 5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED TO THE SATISFACTION OF THE OWNER, SCDHEC AND THE CITY OF COLUMBIA.

SEQUENCE OF CONSTRUCTION

- 1. PRE-CONSTRUCTION MEETING. (WEEK 1) 2. INSTALL INITIAL EROSION CONTROLS INCLUDING PERIMETER
- SILT FENCING (WEEK 1) 3. SITE DEMOLITION (WEEK 2-WEEK 3)
- 4. RETAINING WALL CONSTRUCTION & GRADING (WEEK 4-WEEK 6)
- 5. INITIATE FINAL STABILIZATION MEASURES (WEEKS 6-7)
- 6. SITE LANDSCAPING (WEEKS 6-7)
- 7. REMOVE TEMPORARY SEDIMENT & EROSION CONTROL MEASURES WHEN PROJECT IS FULLY STABILIZED.

STABILIZATION NOTES:

1. ALL DISTURBED AREAS SHALL BE SODDED IMMEDIATELY UPON COMPLETION OF GRADING OPERATIONS.

GRASSING SCHEDULE

PERMANENT STABILIZATION: BERMUDA SOD

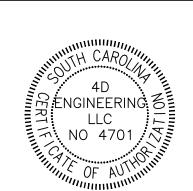
ENGINEERING

SUPERIOR COMPREHENSIVE

ENGINEERING SOLUTIONS"

LEXINGTON, SC WWW.4DENGR.COM

CIVIL ENGINEERING





REVISIONS DESCRIPTION

SCALE: NTS

PROJ NO: 16015

C₁

N/F UNIVERSITY OF SOUTH CAROLINA BUSINESS OFFICE TMS: 11303-08-02 - BLOCK WALL (TYP.) UNDERGROUND ELECTRIC -LINE (TYP.) N/F BOARD OF TRUSTEES OF THE UNIVERSITY OF SOUTH CAROLINA TMS: 11303-08-01 N/F UNIVERSITY OF SOUTH CAROLINA BUSINESS OFFICE TMS: 11303-08-03 YARD DRAIN -- EXISTING STORM PIPE TO REMAIN (TYP.) 12" HARDWOODເ 4 STORY CONCRETE & STUCCO BUILDING NO. 500 SUMTER ST. 8" HARDWOOD / CONCRETE WALL (TYP.) EXISTING CURBING TO REMAIN ALONG NORTH & EAST OF LOT LIMITS OF DISTURBANCE (TYP.) " MAGNOLIA STEAM VAULT TO BE REPAIRED BY REMOVE EXISTING CURBING -OTHERS AFTER SITE DEMO. CONTRACTOR
TO COORDINATE SCHEDULE WITH OWNER
AND CONTRACTOR. - REMOVE EXISTING PAVEMENT & STONE -BASE COURSE TO A DEPTH OF 4" BELOW CURRENT FINISHED GRADE ELEVATION AND SCARIFY REMAINING BASE/SUBBASE LAYER WITH SUBSOILER CATCH BASIN — TOP=222.44 - EXISTING CURBING TO REMAIN ALONG NORTH & EAST OF LOT INV (IN)=218.14 INV (OUT)=218.09 EXISTING STORM ' HARDWOOD - UNDERGROUND TOP=213.28 GAS LINE (TYP.) FILLED WITH - TBM-PK NAIL ELEV=209.03 REMOVE EXISTING "E5"
PARKING LOT SIGN,
CONCRETE, AND CURB REMOVE CURB -MANHOLE RIM = 210.51CLEAN BOX AND INV (IN)=206.31 (15") DOWNSTREAM PIPE ÎNV=200.51 (24") WHEAT STREET 3 DAYS BEFORE DIGGING IN SOUTH CAROLINA CALL 1-888-721-7877 GRAPHIC SCALE

(IN FEET)

1 inch = 10 ft.

Palmetto Utility Protection Service

ENGINEERING

"SUPERIOR COMPREHENSIVE ENGINEERING SOLUTIONS"

LEXINGTON, SC

WWW.4DENGR.COM

CIVIL ENGINEERING

AD AD ENGINEERING OF AUTHORITING OF



REVISIONS
DESCRIPTION DATE

EXISTING CONDITIONS DEMOLITION PLAN

PARKING LOT GREENSPACE

SCALE: 1"=10' PROJ NO: 16015

C2

N/F UNIVERSITY OF SOUTH CAROLINA BUSINESS OFFICE TMS: 11303-08-02 _ BLOCK WALL (TYP.) UNDERGROUND ELECTRIC -LINE (TYP.) N/F BOARD OF TRUSTEES OF THE UNIVERSITY OF SOUTH CAROLINA TMS: 11303-08-01 N/F UNIVERSITY OF SOUTH CAROLINA BUSINESS OFFICE TMS: 11303-08-03 YARD DRAIN -(TYP.) 12" HARDWOODເ 4 STORY CONCRETE & STUCCO BUILDING NO. 500 SUMTER ST. 8" HARDWOOD CONCRETE WALL (TYP.) LIMITS OF DISTURBANCE (TYP.) 7" MAGNOLIA - UNDERGROUND SEWER LINE (TYP.) CATCH BASIN — TOP=222.44 INV (IN)=218.14 INV (OUT)=218.09 INLET PROTECTION HARDWOOD © EMH / - UNDERGROUND TOP=213.28
FILLED WITH GAS LINE (TYP.) 6' TALL TEMPORARY CHAIN LINK FENCING AROUND ALL SIDES OF THE PROJECT SITE WITH SWING GATES ON THE SOUTH SIDE (SEE SUPPLEMENTAL CONDITIONS). INSTALL SILT FENCING ALONG INTERIOR OF SOUTH SIDE OF CHAIN LINK FENCING AFTER DEMOLITION. DOUBLE ROW OF SEDIMENT TUBES - TBM-PK NAIL ELEV=209.03 MANHOLE \(\)
RIM=210.51 INV (IN)=206.31 (15") INV=200.51 (24") WHEAT STREET 3 DAYS BEFORE DIGGING IN SOUTH CAROLINA CALL 1-888-721-7877 GRAPHIC SCALE

> (IN FEET) 1 inch = 10 ft.

Palmetto Utility Protection Service

ENGINEERING

"SUPERIOR COMPREHENSIVE ENGINEERING SOLUTIONS"

LEXINGTON, SC

AD ATOL AS

WWW.4DENGR.COM

CIVIL ENGINEERING



REVISIONS
DESCRIPTION DATE

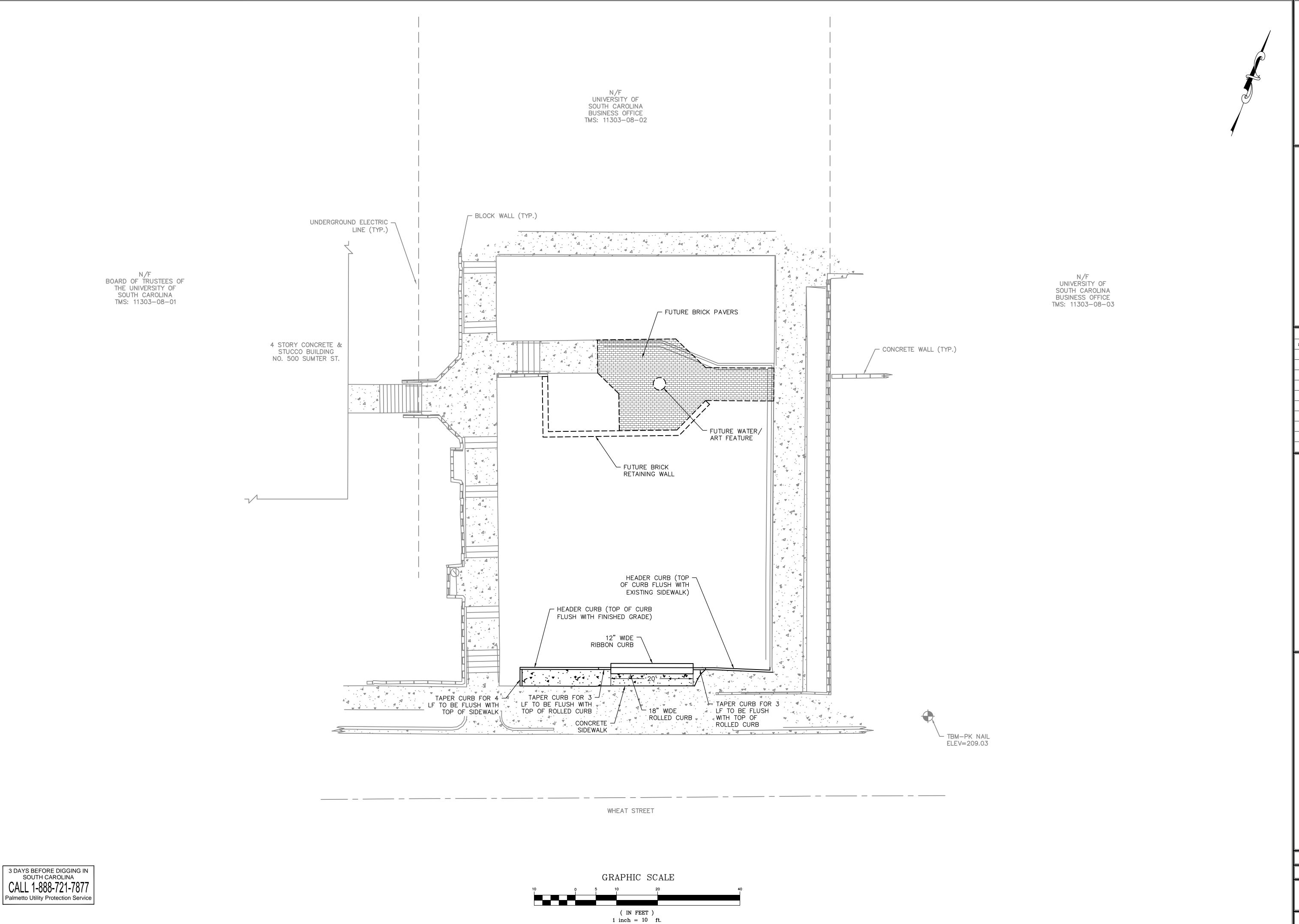
INITIAL SEDIMENT & EROSION CONTROL PLAN

PARKING LOT GREENSPACE

COLUMBIA, SC

SCALE: 1"=10' PROJ NO: 16015

C3

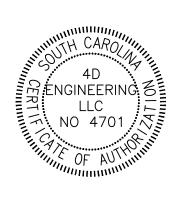


ENGINEERING

"SUPERIOR COMPREHENSIVE ENGINEERING SOLUTIONS"

LEXINGTON, SC
WWW.4DENGR.COM

CIVIL ENGINEERING





REVISIONS				
#	DESCRIPTION	DATI		

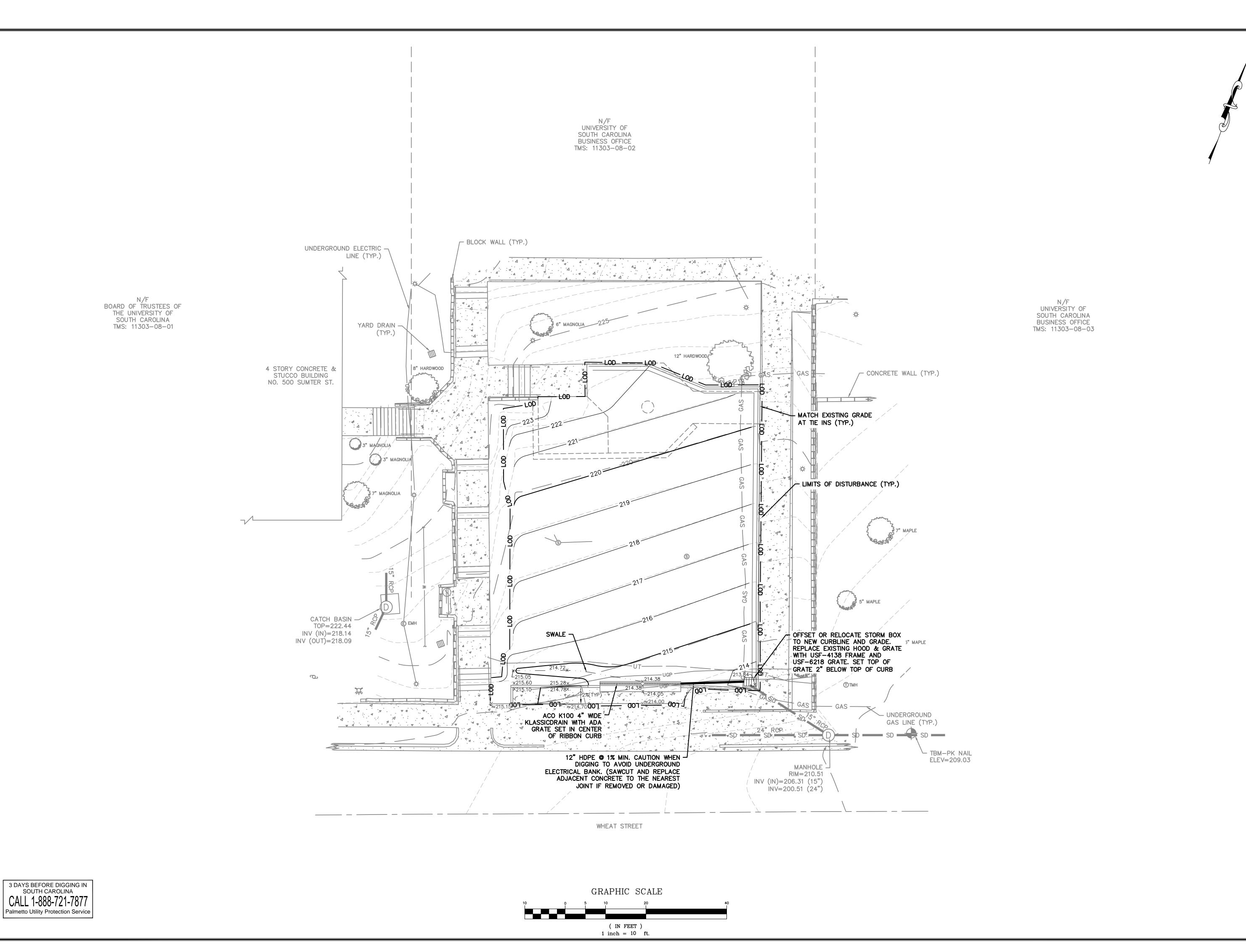
SITE LAYOUT PLAN

ARKING LOT GREENSPACE

COLUMBIA, SC

SCALE: 1"=10' PROJ NO: 16015

C4



ENGINEERING

"SUPERIOR COMPREHENSIVE ENGINEERING SOLUTIONS"

LEXINGTON, SC

WWW.4DENGR.COM

CIVIL ENGINEERING

ENGINEERING OF AUTHORITIAN OF AUTHOR



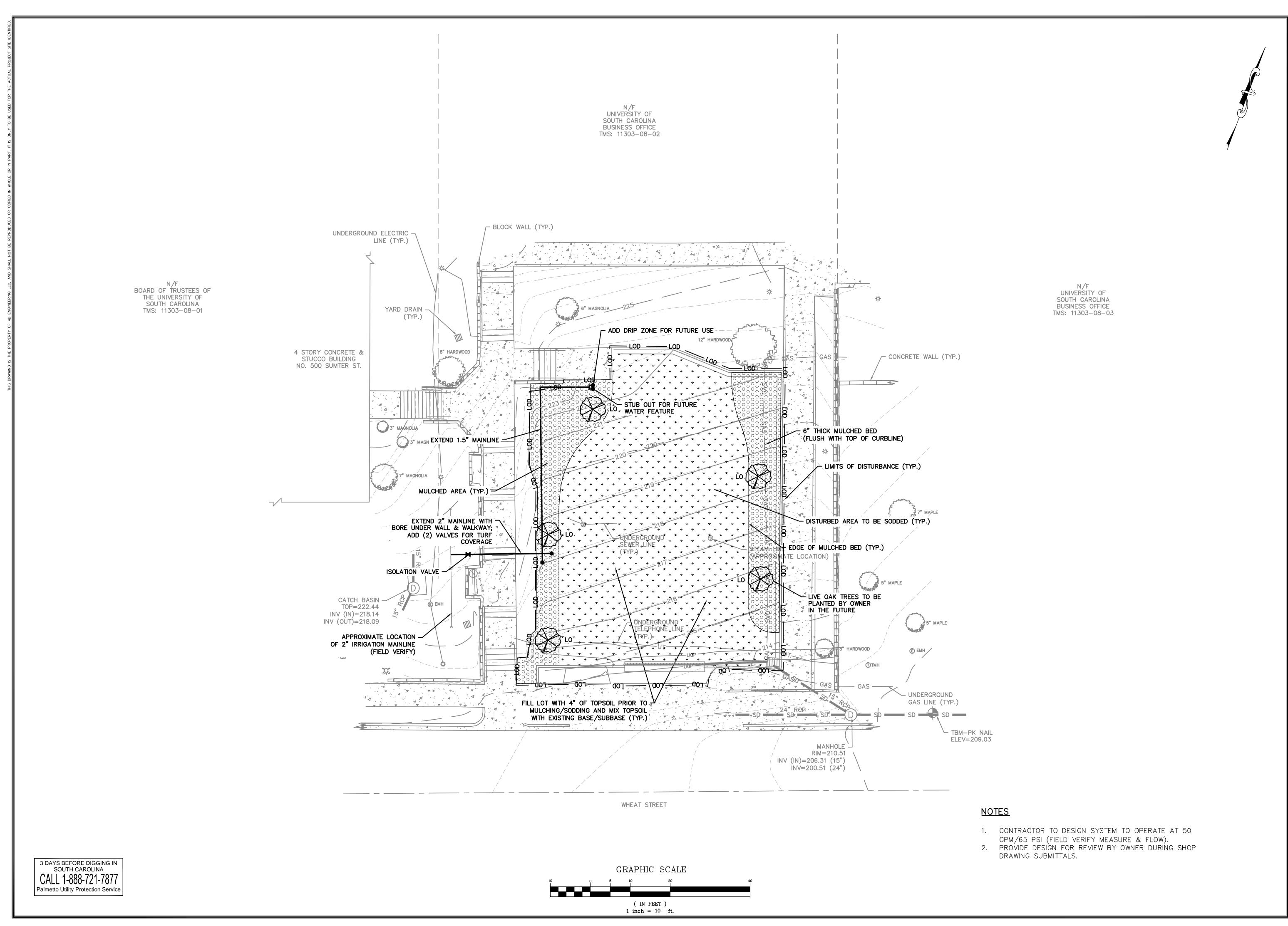
REVISIONS
DESCRIPTION DATE

GRADING & DRAINAGE PLAN

5 PARKING LOT GREENSPACE N COLUMBIA, SC

SCALE: 1"=10' PROJ NO: 16015

C5



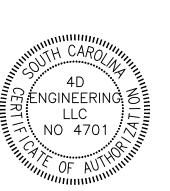
41)
ENGINEERING

"SUPERIOR COMPREHENSIVE ENGINEERING SOLUTIONS"

LEXINGTON, SC

WWW.4DENGR.COM

CIVIL ENGINEERING





REVISIONS
DESCRIPTION DATE

NAL STABILIZATION LANDSCAPING PLAN

RKING LOT GREENSPACE

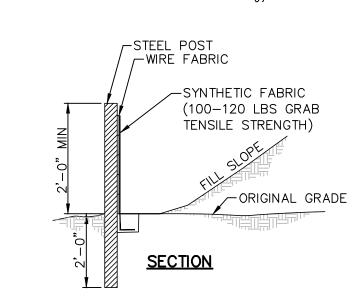
COLUMBIA, SC

SCALE: 1"=10'

PROJ NO: 16015

C6

ELEVATION



- NOTES:

 1. FENCE FABRIC SHALL BE A MINIMUM OF 24" IN WIDTH ABOVE GRADE AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
- 2. SYNTHETIC FABRIC SHALL BE FROM THE SCDOT APPROVED LIST OF MATERIALS.
- 3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.

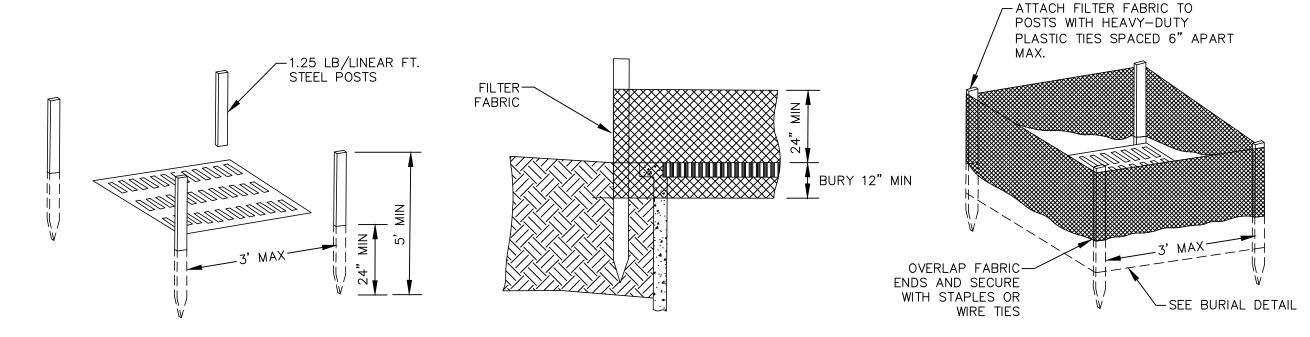
5. SILT FENCE SHALL BE CLEANED OR REPLACED WHEN

- 4. CONTRACTOR SHALL PERFORM INSPECTION AND MAINTENANCE OF SILT FENCES WEEKLY AND FOLLOWING ALL SIGNIFICANT RAINFALL EVENTS, INSURING FENCES ARE ERECT AND CLEAR, AND REPLACING ALL TORN FENCING.
- SILT ACCUMULATION REACHES 1/3 THE HEIGHT OF THE FENCE.

 6. FOR DOUBLE ROW SILT FENCE SPACE ADJACENT FENCES 3 FT. APART SO THAT SEDIMENT CAN BE

REMOVED FROM BETWEEN THE FENCES.

SILT FENCE WITH WIRE FABRIC DETAIL



POST INSTALLATION

FILTER FABRIC BURIAL

FILTER FABRIC INSTALLATION

INSTALLATION:

- 1. FILTER FABRIC INLET PROTECTION SHALL BE USED FOR ALL INLETS. IF FILTER FABRIC INLET PROTECTION FAILS OR OPERATES INADEQUATELY FOR THE SPECIFIC INLET, SILT SAVER INLET PROTECTION SHOULD BE INSTALLED IMMEDIATELY.
- 2. FILTER FABRIC SHALL CONFORM TO SCDOT STANDARD SPECIFICATIONS (LATEST EDITION) AND SHALL BE INSTALLED A MINIMUM OF 12 INCHES INTO THE TRENCH. BACKFILL TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC.
- 3. USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 5 FEET CONSISTING OF STANDARD "T" SECTION WEIGHING 1.25 LB/FT. THE FILTER FABRIC SHALL EXTEND A MINIMUM OF 24 INCHES ABOVE GRADE AND POSTS SHALL BE SPACED NO MORE THAN 3 FEET APART. ATTACH FABRIC TO POSTS USING HEAVY DUTY PLASTIC TIES.
- 4. FILTER FABRIC SHALL BE IN A CONTINUOUS ROLL AND CUT TO THE LENGTH TO AVOID JOINTS. WHEN NECESSARY, JOINTS CAN
- BE PROVIDED AT POSTS, WHERE THEY SHOULD BE OVERLAPPED 6 INCHES AND SECURED.

 5. STEEL POSTS SHALL HAVE A METAL PLATE SECURELY ATTACHED SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER

MAINTENANCE:

- 1. INSPECTIONS SHOULD BE MADE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOUR OF RECEIVING 1/2" OR MORE OF RAINFALL. ANY REPAIRS NEEDED SHOULD BE PERFORMED IMMEDIATELY.
- 2. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED.

DEPTH, THE PLATE WILL BE BELOW GROUND LEVEL FOR ADDITIONAL STABILITY.

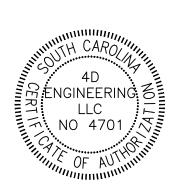
- 3. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FABRIC. IF A SUMP IS USED, IT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREAS, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE FABRIC WHEN REMOVING SEDIMENT.
- 4. STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE INLET STRUCTURE CREST AND USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.

FILTER FABRIC INLET PROTECTION DETAIL

41)
ENGINEERING

"SUPERIOR COMPREHENSIVE ENGINEERING SOLUTIONS" LEXINGTON, SC

WWW.4DENGR.COM





REVISIONS
DESCRIPTION DATE

SEDIMENT & EROSION CONTROL DETAILS

PARKING LOT GREENSPACE

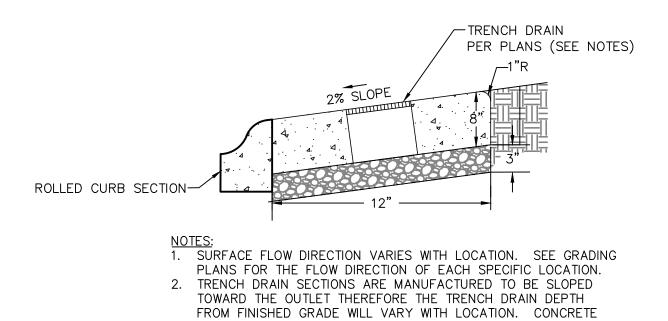
SCALE: NTS PROJ NO: 16015

C7

1. CURB TO BE CONSTRUCTED IN 10-FOOT LENGTHS.

2. 1/2 INCH EXPANSION JOINT SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 30 FEET, AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB ABUTS OTHER CONCRETE STRUCTURES.

HEADER CURB DETAIL NOT TO SCALE

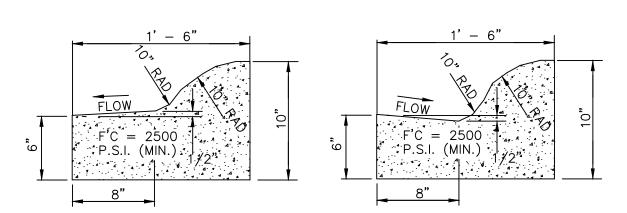


RIBBON CURB DETAIL

NOT TO SCALE

SHALL BE THICK ENOUGH AROUND THE DRAIN SECTION TO

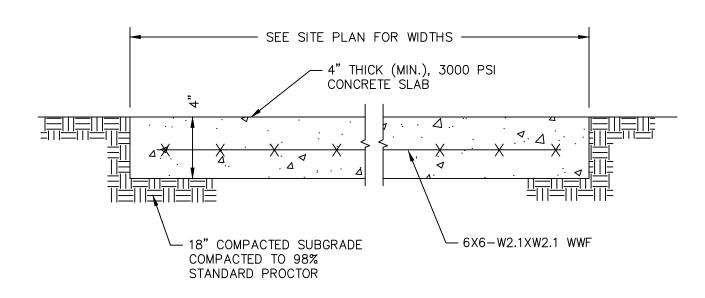
EXTEND TO THE BOTTOM INVERT OF EACH SECTION ON BOTH



NOTE:

1. CURBING SHALL MATCH THE EXISTING CURB AND GUTTER AT THE

ROLLED CURB AND GUTTER NOT TO SCALE

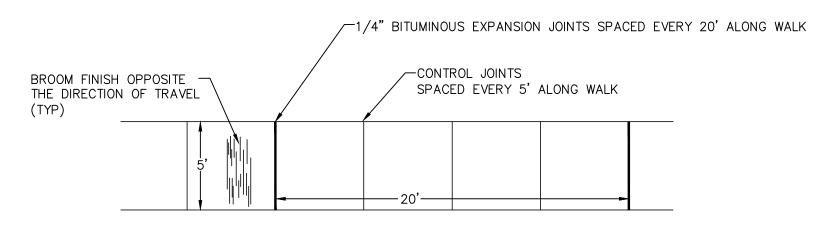


NOTE:

1. THICKEN CONCRETE SECTION TO 6" THICK FOR THE LAST 8" WHERE CONCRETE IS ADJACENT TO CURB LINE OR EDGE OF PAVEMENT.

CONCRETE SIDEWALK SECTION

NOT TO SCALE



NOTES:

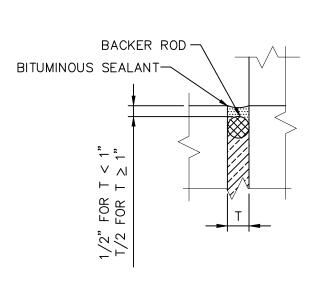
1. SLOPE SIDEWALKS AWAY FROM BUILDINGS AT 2% CROSS SLOPE. MAXIMUM SLOPE ALONG SIDEWALK IS 8%.

2. PROVIDE 1/4" BITUMINOUS EXPANSION JOINTS BETWEEN EXISTING SIDEWALK.

PROVIDE 1/4" BITUMINOUS EXPANSION JOINTS BETWEEN EXISTING SIDEWALK.
 DOUBLE SIZE OF EXPANSION JOINT WHEN ADJACENT TO A STRUCTURE.
 SEE EXPANSION AND CONTROL JOINT DETAILS FOR ADDITIONAL REQUIREMENTS.

SIDEWALK FINISHING DETAIL

NOT TO SCALE



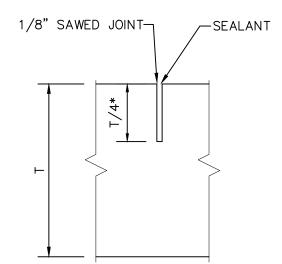
NOTES:

1. PROVIDE 1/4" BITUMINOUS
EXPANSION JOINTS AS REQUIRED OR
AS SHOWN ON PLANS AND 1/2"
BITUMINOUS EXPANSION JOINTS AT
ALL LOCATIONS WHERE CONCRETE
PAVEMENT IS ADJACENT TO EXISTING
SLAB.

EXPANSION JOINT

DETAIL

NOT TO SCALE



NOTES:

1. JOINTS SHALL BE EVERY 20' IN BOTH DIRECTIONS.

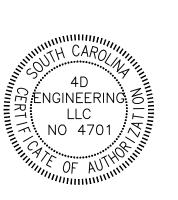
2. MINIMUM JOINT DEPTH = 1"

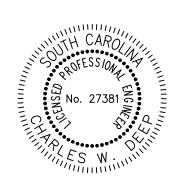
CONTROL JOINT
DETAIL
NOT TO SCALE

41)
ENGINEERING

"SUPERIOR COMPREHENSIVE ENGINEERING SOLUTIONS" LEXINGTON, SC

WWW.4DENGR.COM
CIVIL ENGINEERING





REVISIONS
DESCRIPTION DATE

CONSTRUCTION DETAILS

5 PARKING LOT GREENSPAC

SCALE: NTS PROJ NO: 16015

C8