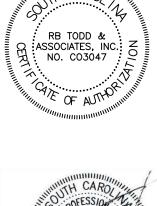
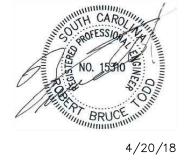




UNIVERSITY OF SOUTH CAROLINA - PARK STREET PARKING LOT

PROJECT NUMBER: H27-Z296 COLUMBIA, SC





APRIL, 2018

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C2.1 GRADING AND DRAINAGE PLAN
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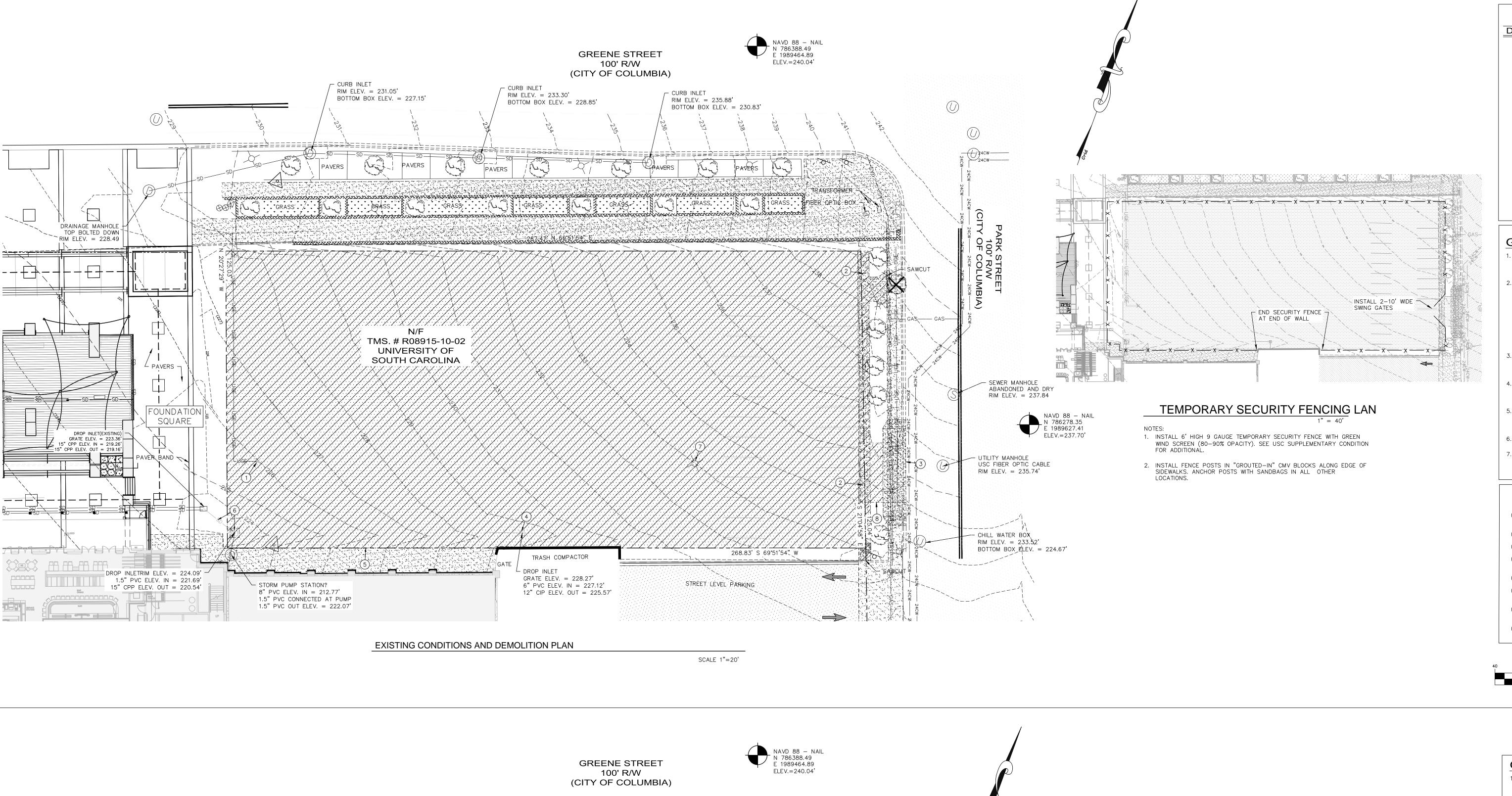
ELECTRICAL

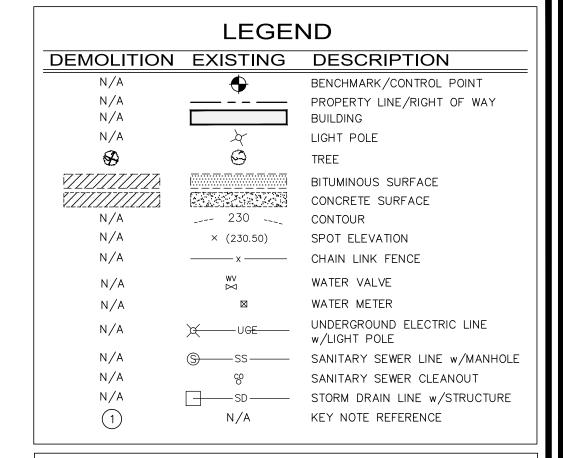
ES01 ELECTRICAL NOTES, SCHEDULES, AND DETAILS ES02 OVERALL ELECTRICAL PLAN ES03 ENLARGED PARKING LOT ELECTRICAL DEMOLITION PLAN

STRUCTURAL

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ES04 ENLARGED PARKING LOT ELECTRICAL PLAN





GENERAL NOTES

TOPOGRAPHIC SURVEY WAS COMPLETED BY SURVEY ONE, LLC ON SEPTEMBER 9, 2016. NO BOUNDARY OR TOPOGRAPHIC SURVEY WAS PERFORMED BY R.B. TODD CONSULTING ENGINEERS.

ASSOCIATES, INC. NO. CO3047

3/2/2018

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. OWNER: UNIVERSITY OF SOUTH CAROLINA

OFFICE OF BUSINESS AFFAIRS COLUMBIA, SC 29208

PHONE NUMBER: 803-777-7592 TMS: R08915-10-02 ZONING: C-1

DEVELOPMENT ADDRESS: 701 PARK STREET, COLUMBIA. SC 29208 TOTAL ACREAGE: 0.77 ACRES DISTURBED AREA: 0.8 ACRES

ACCORDING TO FEMA FLOOD INSURANCE RATE MAP 45079C0094H, DATED FEBRUARY 20, 2002, THIS PROPERTY IS LOCATED IN FLOOD

THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.

THE CONTRACTOR SHALL NOTIFY PUPS AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE ALL UNDERGROUND UTILITIES LOCATED.

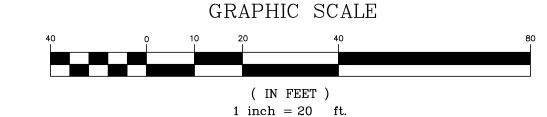
6. SCORE NEW CONCRETE SIDEWALK 5' ON CENTER. THE CONTRACTOR SHALL INSTALL A 6' HIGH TEMPORARY SECURITY

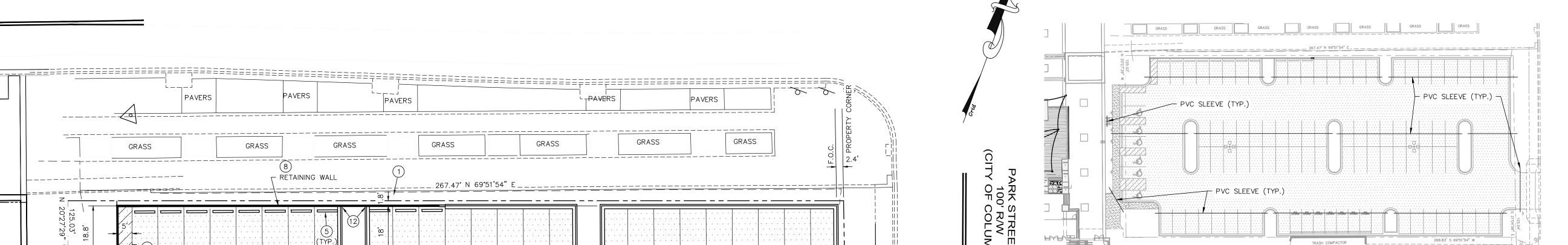
FENCE AROUND THE PERIMETER OF IMPROVEMENTS. ADJUST FENCE AS NEEDED TO ACCOMMODATE CONSTRUCTION. PROVIDE CONSTRUCTION ACCESS GATES AT ENTRANCE.

KEY NOTES

- 1) COORDINATE WITH ELECTRICAL ENGINEERING PLANS ON REMOVAL OF EXISTING LIGHT POLES.
- (2) REMOVE SIDEWALK AND CURB AND GUTTER AS INDICATED.
- (3) EXISTING DROP CURB DRIVEWAY ENTRANCE..
- 4) REMOVE EXISTING DROP INLET AND DISCHARGE PIPE TO
- (5) REMOVE ASPHALT TO EDGE OF EXISTING CONCRETE SIDEWALK.
- 6 REMOVE EXISTING DRAINAGE STRUCTURE AND DISCHARGE PIPE. SEE SHEET C2.1 FOR PROPOSED IMPROVEMENTS.
- 7 REMOVE LIGHT POLE. COORDINATE WITH ELECTRICAL ENGINEERING

(8) DEMOLISH ALL PAVEMENT UP TO EXISTING CONCRETE DROP CURB DRIVEWAY ENTRANCE.

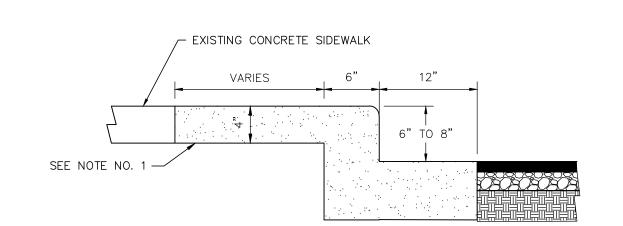




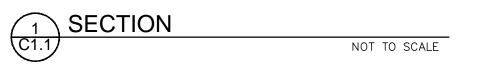
IRRIGATION SLEEVE PLAN

- 1. INSTALL 4" PVC SLEEVES (SCH 40) A MINIMUM OF 2' BELOW FINAL SURFACE GRADES.
- 2. CONTRACTOR TO INSTALL 90° BEND ON SLEEVES AT END OF RUN AND EXTEND PIPE JUST ABOVE FINAL SURFACE GRADES IN LANDSCAPE AREAS. INSTALL 4" CAP.

STREET LEVEL PARKING



POUR 4" THICK CONCRETE SECTION FROM CURB TO EXISTING CONCRETE SIDEWALK. CONCRETE MUST BE POURED HOMOGENEOUSLY WITH CURB. INSTALL SELF LEVELING SILICONE CAULK IN COLD JOINT 30 DAYS AFTER POUR.



GENERAL NOTES

- . ALL PARKING LOT AND ROADWAY STRIPING SHOWN SHALL BE PERFORMED BY THE CONTRACTOR USING TRAFFIC MARKING PAINT. PAINT SHALL BE SHERWIN-WILLIAMS "PRO-MAR" TRAFFIC MARKING PAINT OR GLIDDEN TRAFFIC PAINT AND SHALL BE APPLIED IN TWO COATS AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL PARKING LOT STRIPES TO BE 4" WIDE (WHITE). ALL HC STRIPES TO BE BLUE.
- 2. ALL DIMENSIONS ARE MEASURED TO FACE OF CURB, FACE OF BUILDING, EDGE OF SIDEWALK, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 3. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
- 4. ALL COORDINATES ARE STATE PLAIN.
- 5. ALL PAVEMENT MARKINGS WITHIN CITY OF COLUMBIA RIGHT OF WAY TO BE THERMOPLASTIC.

LEGEND										
NEW	EXISTING	DESCRIPTION								
N/A	•	BENCHMARK/CONTROL POINT								
N/A	X	LIGHT POLE								
	========	CURB AND GUTTER								
		CONCRETE PAVEMENT								
		ASPHALT PAVEMENT								
(1)	N/A	KEY NOTE REFERENCE								

KEY NOTES

- 1) PARKING LOT TO BE INSTALLED PARALLEL WITH GREENE STREET RIGHT OF WAY AS INDICATED. INSTALL FACE OF CONCRETE RETAINING WALL AND FACE OF CURB 1.8' FROM PROPERTY LINE.
- 2) PAINT "COMPACT CAR" AT LOWER END OF SPACES (YELLOW) WITH
- 12" LETTERS. (3) INSTALL BACK OF CURB ALONG FACE OF MASONRY SCREEN
- WALL. INSTALL BITUMINOUS EXPANSION JOINT BETWEEN WALL AND
- 4) PLACE NEW ASPHALT PAVEMENT FLUSH WITH EDGE OF EXISTING DROP CURB DRIVEWAY ENTRANCE INDICATED.
- (5) INSTALL FACE OF WHEEL STOP 3' FROM FACE OF WALL.
- (6) PAINTED END ISLAND (YELLOW).
- (7) ALIGN NEW STEPS WITH PARKING LOT ACCESS ISLAND.
- 8) SEE STRUCTURAL ENGINEERING PLANS FOR INFORMATION ON RETAINING WALL.
- 9 FLARE CONCRETE SIDEWALK TO EXISTING CONCRETE SIDEWALK CORNER AS INDICATED.
- POUR CONCRETE FLUSH WITH EXISTING PAVERS. TERMINATE CONCRETE POUR AT TOE OF EXISTING 4.75% SLOPE. COORDINATE WITH SHEET C2.1.
- (11) PROPOSED SECURITY LIGHT. SEE ELECTRICAL ENGINEERING PLANS. (12) END CURB AND GUTTER AT RETAINING WALL.

GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.

DRAWING NO.

STAKING PLAN

PAVERS

GRASS

8 @ 9' = 72'

8 @ 9' = 72'

CONCRETE SIDEWALK

7 HC PARKING

26.5

4"-3000 PSI

CONC. SIDEWALK

GRASS

· ·8· @·9'·= ·7·2'·

7 COMPACT SPACES @ 8' = 56' ... 9' ... 9'

TRASH COMPACTOR

- RETAINING WALL

STREET LEVEL PARKING

SCALE 1"=20'

268.83' S 69°51'54" W

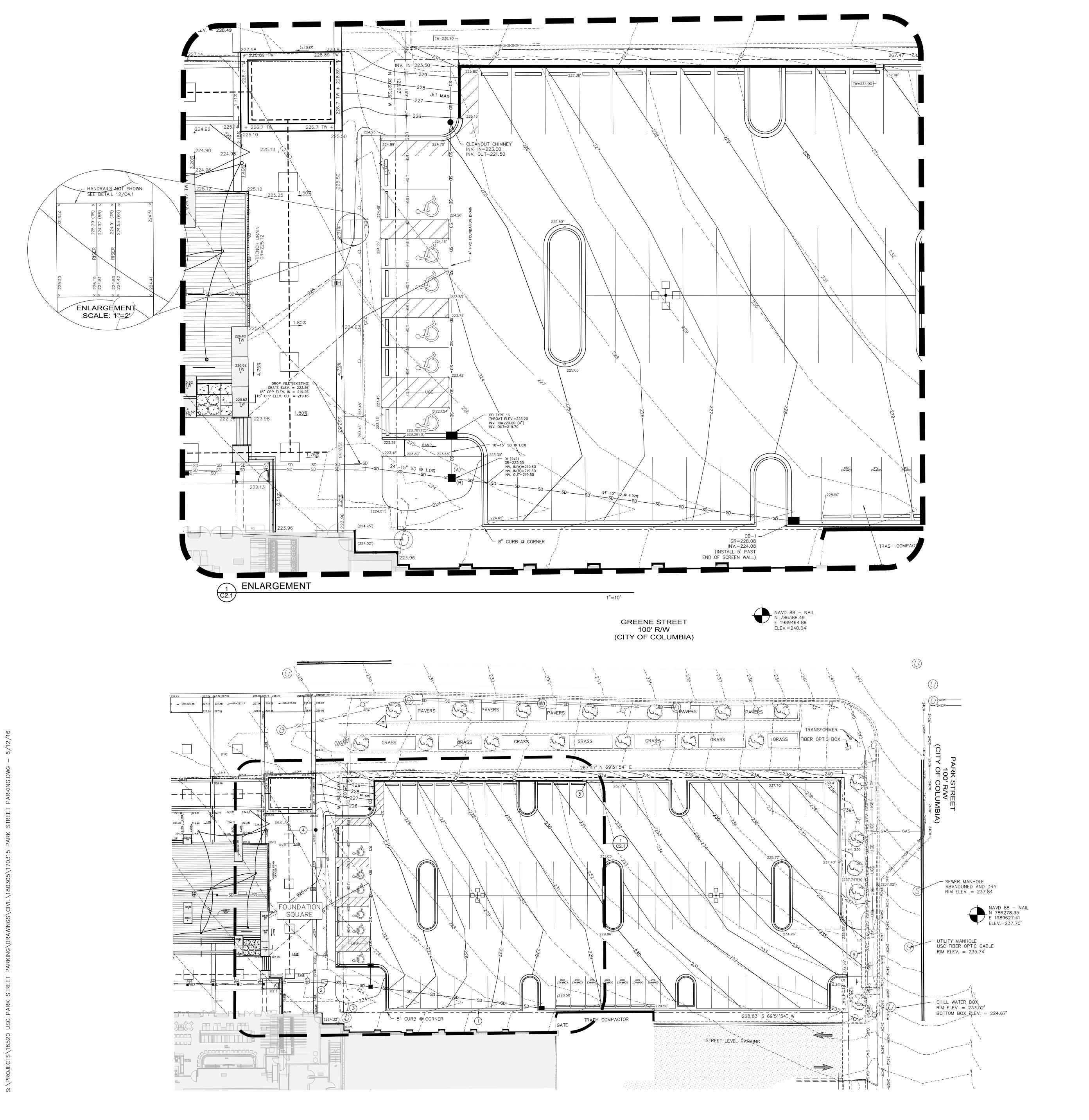
9 · @ · 9 · = 81 · ·

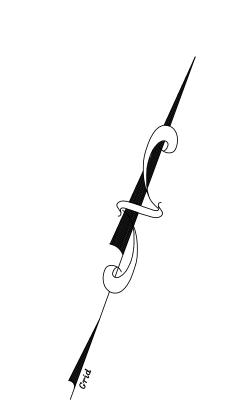
8 @ 9' = 72'

N: 786258.75

E: 1989567.40

26.5

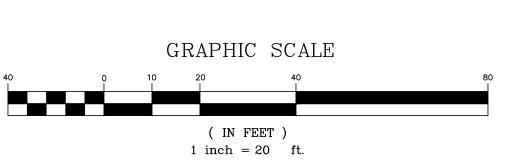


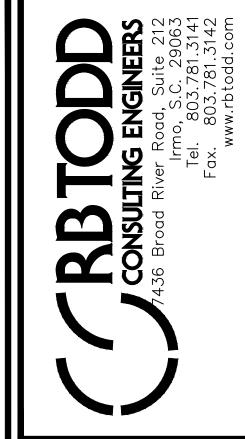


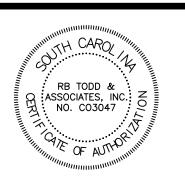
LEGEND							
NEW	EXISTING	DESCRIPTION					
N/A	•	BENCHMARK/CONTROL POINT					
N/A N/A		PROPERTY LINE/RIGHT OF WAY BUILDING					
N/A 230	230	TREE CONTOUR					
× 230.50'	× (230.50')	SPOT ELEVATION					
N/A	$\ddot{\mathcal{R}}$	FIRE HYDRANT					
N/A	×	LIGHT POLE					
N/A	₩V	WATER VALVE					
N/A	\boxtimes	WATER METER					
N/A	W	WATER MAIN/SERVICE					
SD	SD	STORM DRAIN LINE w/STRUCTURE					
N/A	<u>\$</u> SS	SANITARY SEWER LINE w/MANHOLI					
N/A	ço	SANITARY SEWER CLEANOUT					
N/A	x	CHAIN LINK FENCE					
\bigcirc	N/A	KEY NOTE REFERENCE					

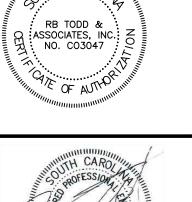
KEY NOTES

- TAPER BACK OF CURB TO FOLLOW EXISTING SIDEWALK ELEVATION
 BETWEEN SOUTHWEST CURB CORNER AND TRASH COMPACTOR
 SCREEN WALL.
- (2) CONNECT NEW 15" STORM DRAIN LINE.
- 3) REMOVE 1.5" PVC FROM STRUCTURE BEING REMOVED AND EXTEND LINE FROM PUMP STATION TO NEW DROP INLET (DI 2x2).
- 4) SPOT GRADE INFORMATION AT EXISTING PLAZA WAS TAKEN FROM ORIGINAL PLAZA DESIGN PLANS.
- (5) SEE STRUCTURAL PLANS FOR WALL TAPER ON EASTERN END. 6 PLACE ASPHALT FLUSH WITH EDGE OF EXISTING DROP CURB DRIVEWAY ENTRANCE.











USC H27-

GRADIN

DRAWING NO.

C2 1

SEDIMENT AND EROSION CONTROL NOTES

RUNOFF WITHIN THE AREAS DISTURBED BY CONSTRUCTION.

NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

- 1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THROUGHOUT THE LENGTH OF CONSTRUCTION, INCLUDING BUILDING CONSTRUCTION, SILT FENCES AT ALL STORM DRAINAGE STRUCTURES AND ALONG THE PERIMETER OF CONSTRUCTION AS NECESSARY TO CONTAIN ALL SEDIMENT
- 2. 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 > 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 AT LEAST 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 OR IDENTIFICATION.
- 4. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH ONE-THIRD THE HEIGHT OF THE SEDIMENT FENCE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING ALL SLOPES FROM FINISH GRADE TO NATURAL GROUND AND FOR PREVENTING EXCESSIVE EROSION FROM OCCURRING. IMMEDIATELY AFTER ESTABLISHING THE INTERMEDIATE ROUGH GRADE SLOPES AND AFTER REACHING THE FINAL GRADE SLOPES, THE CONTRACTOR SHALL PROVIDE GRASSING OF THESE SLOPES. WHEN SLOPES ARE DISTURBED BY SUBSEQUENT EXCAVATIONS FOR OTHER ITEMS, THE CONTRACTOR SHALL INSPECT THE REPAIRS AND CORRECT ANY DEFICIENCIES IN THE
- 6. ALL GRADING WORK SHALL CONFORM SUBSTANTIALLY WITH THE GRADING PLANS. WHERE SPOT GRADES ARE INDICATED ON THE PLANS, THEY SHALL BE ESTABLISHED BY SCALING AND SHALL TAKE PRECEDENCE OVER CONTOURS. ALL GRADING BETWEEN SPOT GRADES SHALL BE SMOOTH AND UNIFORM.
- 7. THE CONTRACTOR SHALL ADEQUATELY COORDINATE THE INSTALLATION OF THE STORM DRAINAGE SYSTEM TO ENSURE THAT POSITIVE RUNOFF OF STORMWATER IS EFFECTED BOTH DURING CONSTRUCTION AND AFTER COMPLETION OF THE WORK.
- 8. IF NECESSARY, SLOPES WHICH EXCEED 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
- 9. 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 ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- 10. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE TRACKING OF MUD ONTO PAVED ROADWAY FROM CONSTRUCTION AREAS AND GENERATION OF DUST. THE CONTRACTOR SHALL REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 11. 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.
- 12. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 13. 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 CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREAS AND ALL WoS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.
- 14. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER), AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORMWATER DISCHARGES.
- 15. 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.
- 16. 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.
- 18. MINIMIZE 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
- 19. 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.).
- 20. 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, FROM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION •FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
- 21. 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.
- 22. 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 PRACTICAL. 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.
- 23. 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

PREDOMINANT SOIL TYPES

STABILIZATION (TEMPORARY)

17. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

• SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

CONTRACTOR TO INSTALL 4" OF HARDWOOD MULCH IN LANDSCAPED ISLANDS AND AROUND THE DISTURBED PERIMETER.

GRASSING PER 1000 SQUARE FEET (PERMANENT

PERMANENT GRASSING AND LANDSCAPING BY OTHERS WHICH WILL BE COMPLETED IN THE FALL OF 2018

EROSION CONTROL

MAINTENANCE

COUNTY PUBLIC WORKS.

CONTRACTOR TO BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES THROUGHOUT THE LIFE OF THE PROJECT. INCLUDE NECESSARY MAINTENANCE AS REQUIRED BY RICHLAND

AIRBORNE DUST CONTROL

THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS OUTLINED IN THE SOUTH CAROLINA DHEC STORMWATER MANAGEMENT BMP HANDBOOK AS NEEDED TO CONTROL AIRBORNE DUST DURING CONSTRUCTION. COORDINATE WITH ENGINEER PRIOR TO IMPLEMENTATION OF VARIOUS MEASURES.

CONSTRUCTION SEQUENCE OF ENTIRE CONSTRUCTION AREA FOR EROSION AND SEDIMENT CONTROL

- PRE-CONSTRUCTION MEETING (ON-SITE IF MORE THAN 10 DISTURBED AND NON-LINEAR) NOTIFY DHEC EQC REGIONAL OFFICE OR OCRM OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES
- INSTALLATION OF CONSTRUCTION ENTRANCE(S) CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS
- INSTALLATION OF PERIMETER CONTROLS (E.G., SILT FENCE)
- CLEARING & GRUBBING OF SITE OR DEMOLITION (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED) ROUGH GRADING
- INSTALLATION OF STORM DRAIN SYSTEM PRIOR TO BUILDING CONSTRUCTION AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED FINE GRADING, PAVING, ETC. 2. PERMANENT/FINAL STABILIZATION
- REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL 14. SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AS APPROPRIATE.

EROSION AND SEDIMENT CONTROL MEASURES

THE CONTRACTOR IS ADVISED THAT ALL GRADING AND DRAINAGE WORK ON THE PROJECT IS PERMITTED UNDER THE REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL, DIVISION OF STORMWATER MANAGEMENT. COMPLIANCE WITH THE PERMITTED CONDITIONS IS MANDATORY. THE CONTRACTOR SHALL RELY ON EXPERIENCE AND CONTROL OF THE WORK TO PROVIDE ADEQUATE AND ORDERLY CONSTRUCTION METHODS TO CONTROL STORMWATER RUNOFF AND PREVENT THE EXCESSIVE MIGRATION OF SEDIMENTS FROM THE SITE. THE CONTRACTOR ALSO SHALL DIRECT INSTALLATION OF NECESSARY TEMPORARY CONSTRUCTION MEASURES TO CONTROL STORMWATER RUNOFF. ALL STORMWATER MANAGEMENT MEASURES SHALL BE INSPECTED AFTER EACH RAIN EVENT AND ANY REQUIRED MAINTENANCE SHALL BE PERFORMED. CONTRACTOR IS RESPONSIBLE FOR SWPPP INSPECTIONS.

SILT FENCES OR EQUIVALENT SEDIMENT CONTROL SHALL BE INSTALLED WHERE INDICATED AND MAINTAINED IN ACCORDANCE WITH THIS PLAN.

STORM DRAINAGE STRUCTURES

TEMPORARY BARRIERS OF EITHER SILT FENCING OR ROCK RIPRAP SHALL BE INSTALLED AND MAINTAINED AROUND STORM DRAINAGE STRUCTURES UNTIL THEIR DRAINAGE AREA IS STABILIZED. STORM DRAINAGE PIPES, INCLUDING OUTLET PROTECTION, SHALL BE INSTALLED AS SOON AS EARTH GRADING IS ADEQUATE TO ACCEPT PIPE INSTALLATION. INLET STRUCTURES SHALL BE CONSTRUCTED AS THE EARTHFILL IS PLACED AND CONSTRUCTION SHALL AT ALL TIMES PROVIDE SURFACE DRAINAGE TO THEM. TEMPORARY BARRIERS SHALL BE INSTALLED AND MAINTAINED AT EACH INLET AS THE EARTH FILL

STABILIZATION OF DISTURBED AREAS

DISTURBED AREAS SHALL RECEIVE STABILIZING MEASURES WITHIN 14 DAYS AFTER DISTURBANCES.

INSPECTION AND MAINTENANCE

SEDIMENT CONTROL SYSTEMS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER ANY RAINFALL EVENT EXCEEDING 0.5 INCH. ANY NEEDED CORRECTIONS OR MAINTENANCE SHALL BE ACCOMPLISHED IMMEDIATELY THEREAFTER

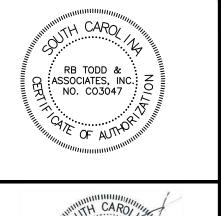
REMOVAL OF SEDIMENT CONTROL SYSTEMS

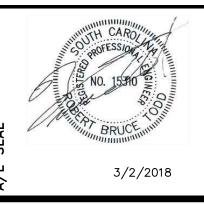
TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AFTER EACH AFFECTED AREA HAS BEEN "FINALLY STABILIZED".

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO PREVENT FLOW OF STORMWATER OVER DISTURBED AREA. TEMPORARY DIVERSION OUTLETS SHALL HAVE ADEQUATE CAPACITY AND TERMINATE INTO DENSE VEGETATION, ROCK RIP RAP, STORM STRUCTURES OR SIMILAR MEASURES TO REDUCE EROSION AT THE OUTLET. TEMPORARY DIVERSION CHANNELS SHALL BE CONSTRUCTED AND MAINTAINED AT A MINIMUM OF 1 PERCENT GRADE AND A MAXIMUM GRADE OF 2 PERCENT. THE CAPACITY OF TEMPORARY DIVERSIONS SHALL BE RESTORED ANYTIME THE EXCAVATED CHANNEL BECOMES FULL OF SEDIMENT AT ANY POINT IN THE LENGTH OF THE DIVERSION. THE RIDGE AND CHANNEL OF THE TEMPORARY DIVERSIONS SHALL BE STABILIZED WITH TEMPORARY VEGETATION IMMEDIATELY AFTER CONSTRUCTION AND RE-STABILIZED AFTER EACH DISTURBANCE.

ASSOCIATES, INC

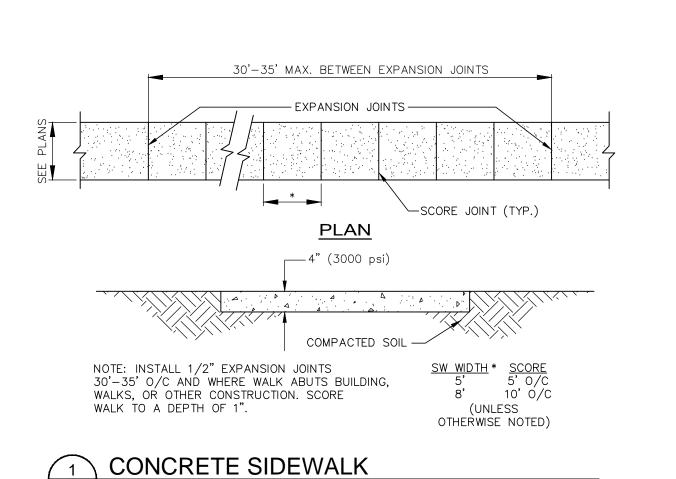


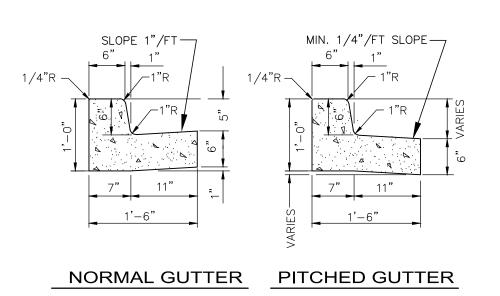


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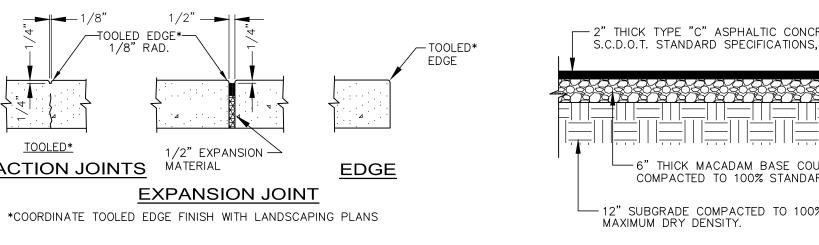
CONCRETE WASHOUT

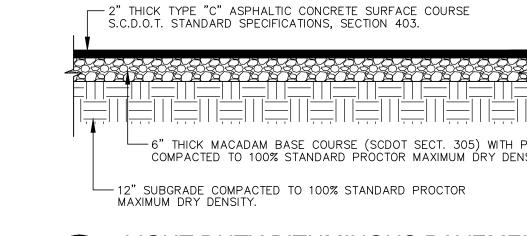




1. CURB AND GUTTER TO BE CONSTRUCTED IN 10-FOOT LENGTHS. 2. PROVIDE 1/2 INCH EXPANSION JOINT MATERIAL AT INTERVALS NOT TO EXCEED 100 FEET, AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY LOCATION WHERE THE NEW CURB AND







HANDICAP PARKING

NOTE: ALL PAVEMENT MARKINGS WITHIN SCDOT

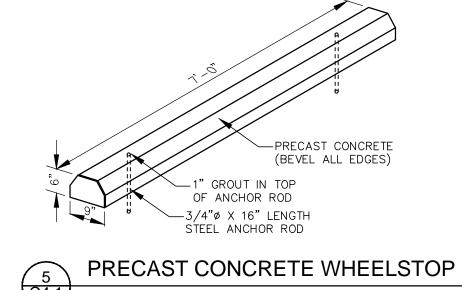
R/W SHALL BE THERMOPLASTIC AND INSTALLED

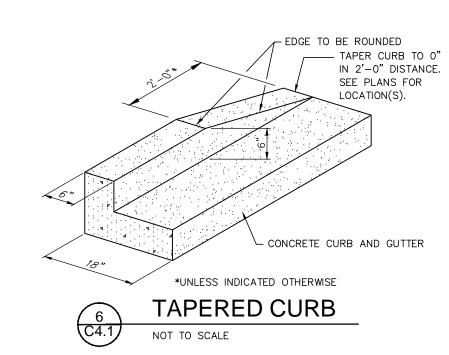
ACCORDING TO SCDOT STANDING DRAWINGS AND

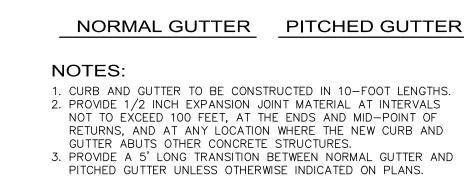
NOT TO SCALE

9 PAINTED SYMBOL

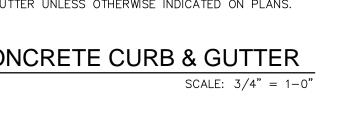
SPECIFICATIONS.

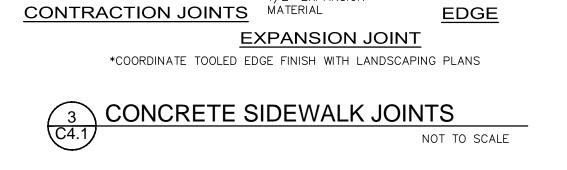


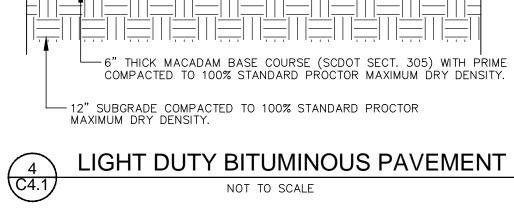


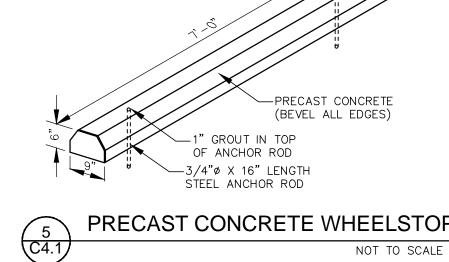


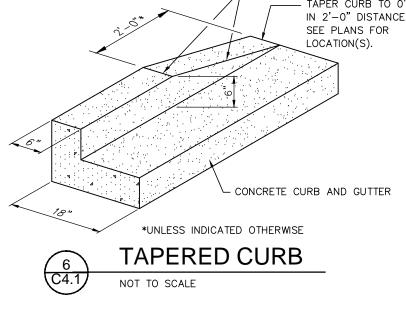


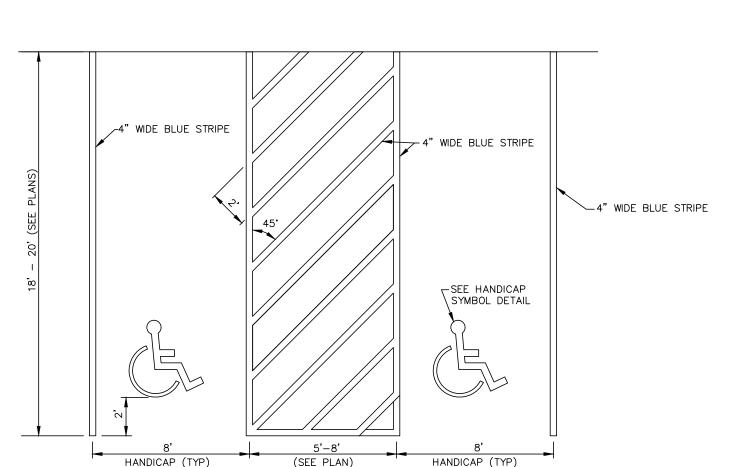


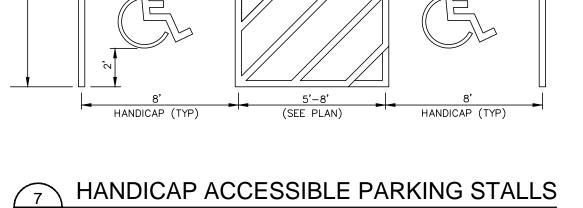








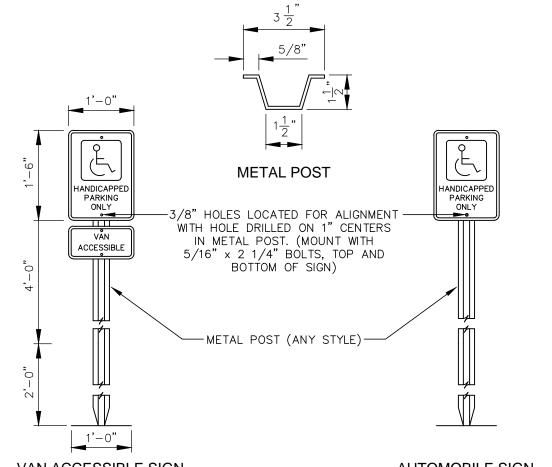




SCALE: 1" = 1'-0"

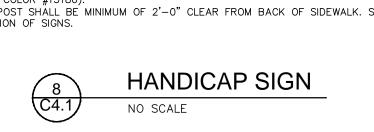


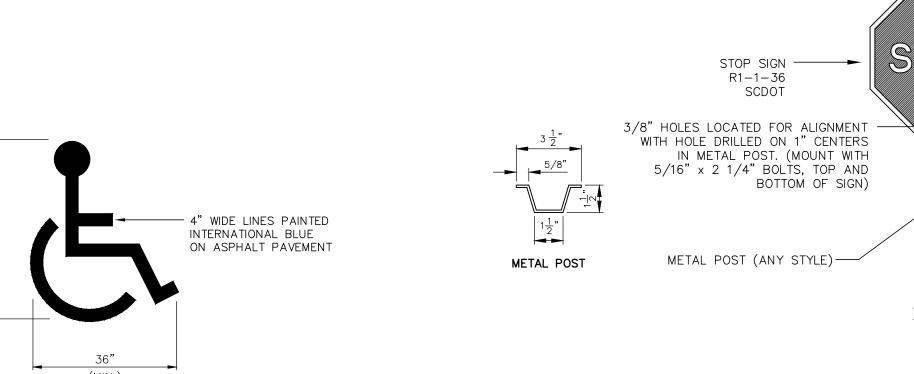
- TRAFFIC MARKING PAINT OR GLIDDEN TRAFFIC MARKING PAINT AND SHALL BE APPLIED IN TWO COATS AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL STRIPING ASSOCIATED WITH HANDICAP PARKING SHALL BE 4" WIDE (BLUE). 2. SEE PLANS FOR SPECIFIC LOCATION AND DIMENSIONS.
- ALL STRIPING SHALL BE PERFORMED BY CONTRACTOR USING TRAFFIC MARKING PAINT. PAINT SHALL BE SHERWIN-WILLIAMS "PRO-MAR"

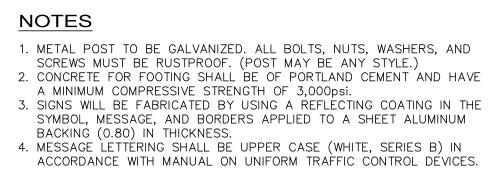




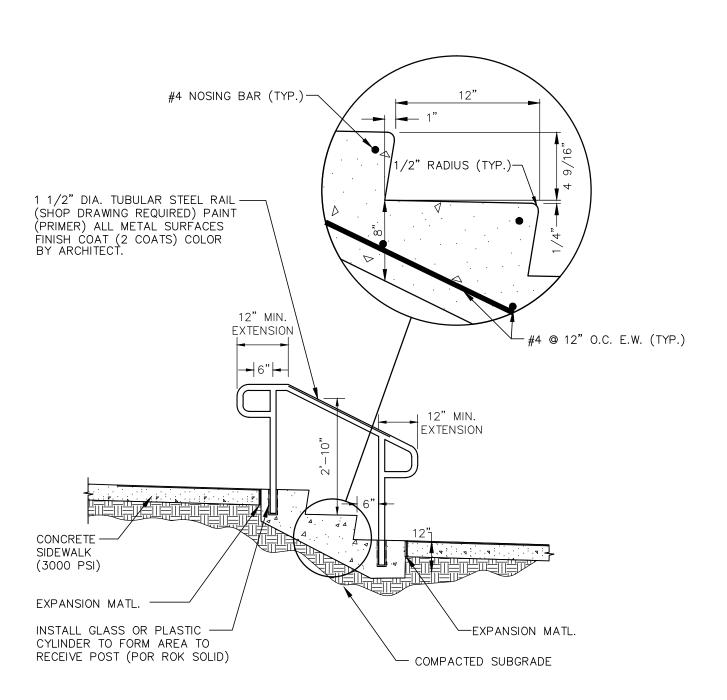
- METAL POST TO BE GALVANIZED. ALL BOLTS, NUTS, WASHERS, AND SCREWS MUST BE RUSTPROOF. (POST MAY BE ANY STYLE.)
 SIGNS WILL BE FABRICATED BY USING A REFLECTING COATING IN THE SYMBOL, MESSAGE, AND BORDERS APPLIED TO A SHEET ALUMINUM BACKING (0.80 IN THICKNESS). 3. MESSAGE LETTERING SHALL BE UPPERCASE (WHITE, SERIES B) IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. 4. THE SYMBOL IS COMPOSED OF TWO ELEMENTS; A WHITE WHEELCHAIR FIGURE (WHICH SHOULD
- ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (FED. STD. 5. SIGN POST SHALL BE MINIMUM OF 2'-0" CLEAR FROM BACK OF SIDEWALK. SEE PLANS FOR LOCATION OF SIGNS.





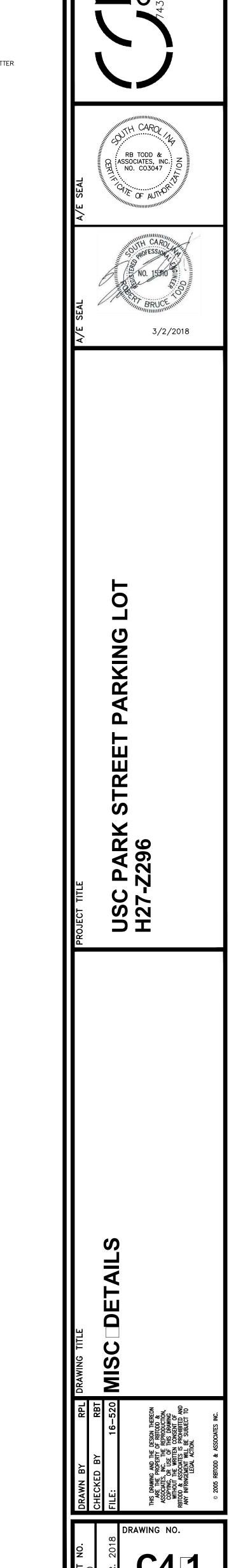


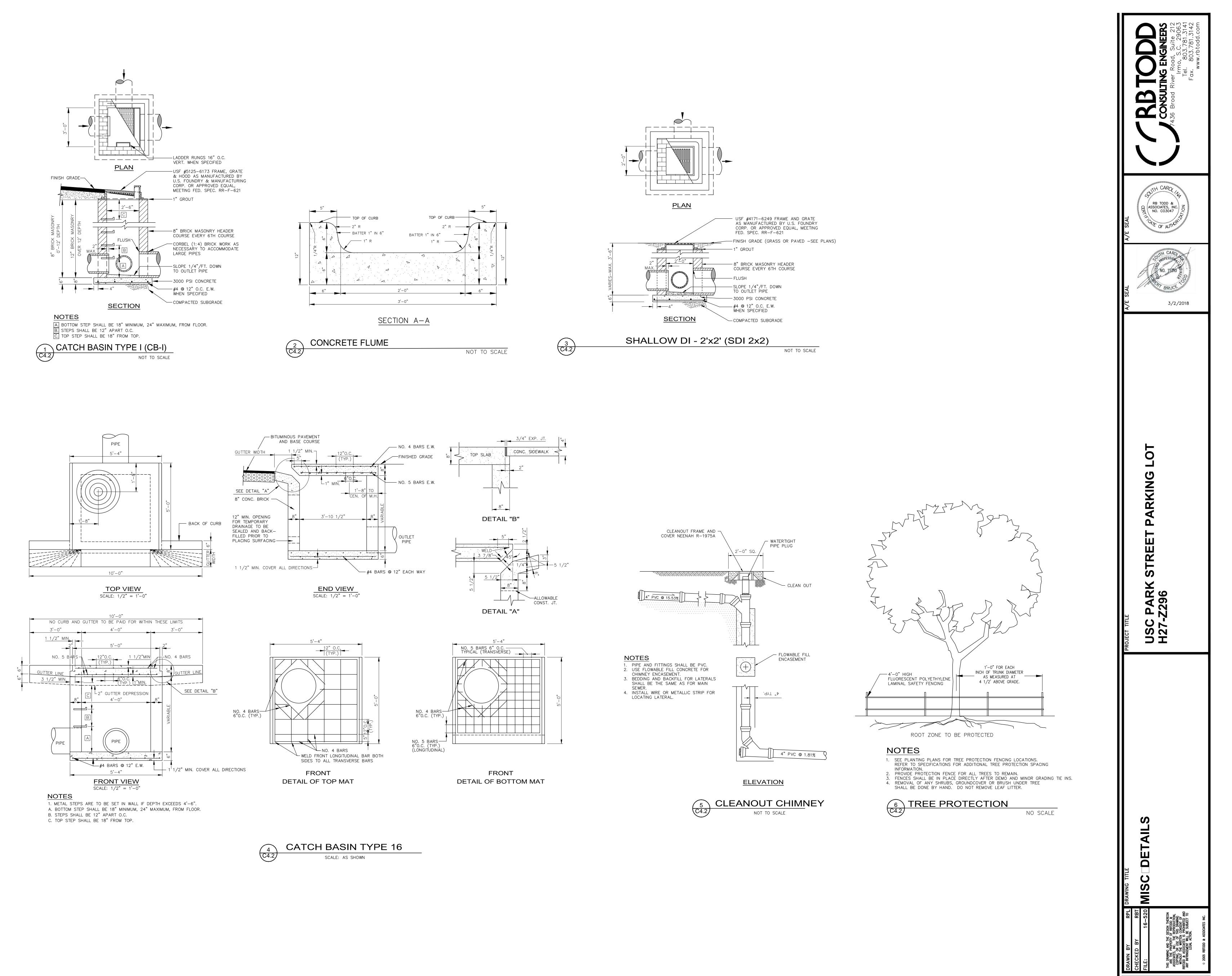


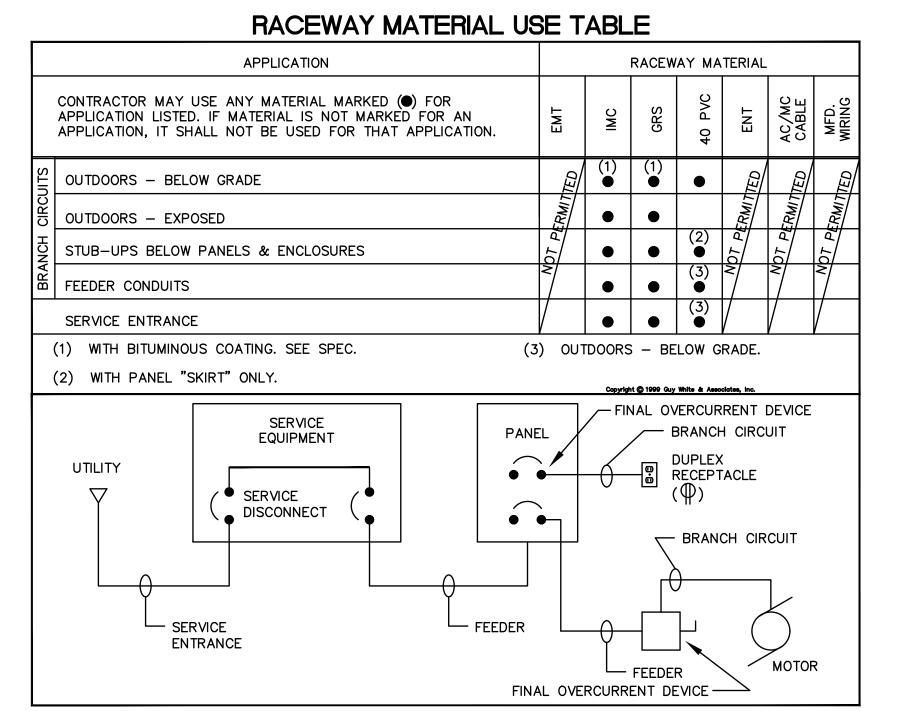


- ALL HANDRAILS AND STEPS TO MEET ALL STANDARD BUILDING CODES AND A.D.A. REQUIREMENTS AND REG-ULATIONS.
- 2. HANDRAILS TO BE INSTALLED AS SHOWN ON DRAWINGS.
- 3. CENTERLINE OF POSTS SHALL BE 4" FROM EDGE OF STAIRS.









ABBREVIATIONS BRANCH CIRCUIT WIRING -HASHMARK CODE

THE FOLLOWING STANDARD ABBREVIATIONS ARE USED IN THESE PLANS AND SPECIFICATIONS. CONTRACTOR IS BRANCH CIRCUITS SHOWN ON THESE DRAWINGS MAY CAUTIONED THAT ALL ABBREVIATIONS INCLUDE HASHMARKS WHICH INDICATE THE NUMBER OF LISTED MAY NOT BE USED; CONSULT PLANS AND SPECIFICATIONS FOR ABBREVIATIONS APPLICABLE TO THIS

ABOVE FINISHED FLOOR BELOW FINISHED FLOOR ABOVE FINISHED GRADE B.F.G. BELOW FINISHED GRADE U.N.O. UNLESS NOTED OTHERWISE CIRCUIT

CKT. CONDUIT EMPTY CONDUIT FLEXIBLE CONDUIT WEATHERPROOF FLEXIBLE CONDUIT ELECTRIC WATER COOLER ELECTRIC WATER HEATER HEAT PUMP OR HORSEPOWER

WIRES TO BE PROVIDED IN A CONDUIT RUN BETWEEN SCHEDULE FOR CONDUIT ROUTING NOTATION. HASHMARK CODE IS AS FOLLOWS:

OUTLETS OR JUNCTION BOXES. WIRE SIZES SHALL BE AS TABULATED IN PANELBOARD SCHEDULES UNLESS OTHERWISE INDICATED ON PLAN. SEE SYMBOL

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NO SCALE

EACH PHASE AND NEUTRAL WIRE IN A CONDUIT RUN IS REPRESENTED BY A HASHMARK. FOR EXAMPLE -

_____ TWO WIRES (NO HASHMARKS) THREE WIRES (3 HASHMARKS) → //// ► FOUR WIRES (4 HASHMARKS) FIVE WIRES (5 HASHMARKS)

. . . AND SO FORTH.

BIDDERS SHALL VISIT THE SITE OF THE WORK PRIOR TO

TO PROVIDE NEW WORK AND TO MODIFY EXISTING WORK

AS REQUIRED TO CONTINUE IN OPERATION.

USC OR UTILITY IF LEASED.

TO OWNER.

NOTES TO POLE ASSEMBLY CONCRETE FOUNDATION DETAIL

GENERAL REFERENCE FOR CONSTRUCTION METHOD AND GROUNDING REQUIREMENTS. CONTRACTOR

SHALL VERIFY ALL DIMENSIONS, COMPONENTS, DEPTH AND OTHER REQUIREMENTS WITH SOIL CONDITIONS AND PROVIDE A COMPLETE POLE

ASSEMBLY CONCRETE FOUNDATION DESIGN.

. SUBMIT DESIGN WITH FIXTURE SHOP DRAWINGS.

PROFESSIONAL ENGINEER LICENCED TO PRACTICE IN

APPLICABLE AASHTO, SCDOT, CITY OF COLUMBIA,

4. VERIFY ALL POLE BASE/FIXTURE LOCATIONS WITH USC REPRESENTATIVE AND CIVIL ENGINEER PRIOR

DESIGN SHALL BEAR THE SEAL OF A

DESIGN SHALL BE IN ACCORDANCE WITH

THE STATE OF SOUTH CAROLINA.

AND USC STANDARDS.

TO INSTALLATION.

1. POLE FOUNDATION DETIAL INDICATED IS FOR

D2. ALL EXISTING LIGHTING FIXTURE ASSEMBLIES SHALL BE

D3. OWNER SHALL RETAIN FIRST RIGHT OF REFUSAL ON

D4. EXISTING RACEWAY AND WIRING SYSTEMS REUSED AS

WORK AND CURRENT CODES AND STANDARDS.

TO ACCOMMODATE NEW CONSTRUCTION.

PART OF THIS CONTRACT SHALL BE REWORKED AS

D5. CONTACTOR SHALL EXAMINE NEW WORK PLANS FOR ALL

TRADES AND INCLUDE IN BID ALL REWORK AND/OR

RELOCATION OF EXISTING RACEWAY, JUNCTION BOXES,

DEVICES, WIRING SYSTEMS AND THE LIKE AS REQUIRED

REQUIRED TO COMPLY WITH REQUIREMENTS FOR NEW

CAREFULLY REMOVED, PROTECTED AND DELIVERED TO

ELECTRICAL EQUIPMENT BEING DEMOLISHED. PRIOR TO

THRU DEMOLITION AREA WITH OWNER REPRESENTATIVE

BEGINNING DEMOLITION WORK, CONTRACTOR SHALL WALK

AND IDENTIFY ITEMS TO BE REMOVED AND TURNED OVER

BIDDING AND SHALL INCLUDE IN BID ALL WORK REQUIRED

NOTE: GROUND WIRES ARE NOT GENERALLY SHOWN. EXAMINE SPECIFICATIONS AND GENERAL NOTES TO DETERMINE REQUIREMENTS FOR GROUND WIRES AND WHERE SPECIFIED, PROVIDE IN ADDITION TO THE NUMBER OF WIRES INDICATED BY HASHMARK CODE.

NOTE: CONTRACTOR IS CAUTIONED THAT MULTIWIRE (LINE-TO-NEUTRAL) BRANCH CIRCUITS DO NOT INDICATE ALL REQUIRED NEUTRAL CONDUCTORS. PROVIDE SEPARATE NEUTRAL CONDUCTORS (WITH COLORED STRIPE TO MATCH PHASE CONDUCTOR) FOR EACH PHASE CONDUCTOR.

EMPTY CONDUITS ARE NOTED BY "EC" WITH TRADE

GENERAL NOTES

- 1. DO NOT SCALE DRAWINGS UNLESS DIMENSIONS ARE SHOWN. LOCATE LIGHTING FIXTURES AND EQUIPMENT AS OBVIOUSLY INDICATED AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. SEE CIVIL PLANS.
- 2. MINIMUM SIZE CONDUCTOR FOR POWER SHALL BE NO. 12 AWG. ALL CONDUCTORS SHALL BE COPPER.

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- 3. ALL FUSES SHALL BE DUAL-ELEMENT TYPE, "FUSETRON" BY BUSSMAN, OR "ECON" BY ECONOMY.
- 4. BRANCH CIRCUIT SIZES ARE AWG 12-3/4" C. UNLESS OTHERWISE NOTED IN PANELBOARD SCHEDULES.
- 5. ALL BRANCH CIRCUIT LOADS SHALL BE BALANCED ACROSS PANELBOARD BUSSES TO OBTAIN MINIMUM NEUTRAL CURRENT.
- 6. ALL FLEXIBLE CONDUIT SHALL CONTAIN A GREEN WIRE BONDED TO RIGID RACEWAY, BOX OR FIXTURE AT EACH END OF FLEX. SIZE GROUND WIRE PER N.E.C. TABLE 250-122.
- 7. CONTRACTOR IS CAUTIONED THAT WORK SHALL BE COMPLETED IN PHASES AS REQUIRED TO MAINTAIN USE OF STREETS,
- SIDEWALKS, BUSINESSES AND THE LIKE. REFER TO LANDSCAPE ARCHITECT AND CIVIL PLANS FOR PHASING OF WORK. 8. ALL WORK SHALL COMPLY WITH NFPA, ADA, AASHTO, SCDOT, CITY OF COLUMBIA, THE UNIVERSITY OF SOUTH CAROLINA
- AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- 9. SEE CIVIL AND UTILITY PLANS FOR DUCTBANKS, MANHOLES, HANDHOLES AND ADDITIONAL NEW UTILITIES. VERIFY EXACT LOCATIONS OF HANDHOLES, RISER POLES, PEDASTALS AND THE LIKE WITH UTILITIES.

10. CONDUIT ROUTING SHOWN DOES NOT INDICATE PATH OF ROUTING-SHOWN FOR CLARITY ONLY. ROUTE CONDUITS IN R.O.W.

- SEE CIVIL PLANS. 11. ALL CONDUIT ELBOWS BELOW GRADE SHALL BE BITUMINOUS COATED GRS.
- 12. IF REQUIRED TO SUIT LUGS, PROVIDE HYDRAULIC CRIMP TYPE WIRE REDUCERS IN METER CENTER AS REQUIRED TO CONNECT FEEDER CONDUCTORS TO CONTACTOR/CIRCUIT BREAKERS.
- 13. MINIMUM COVER FOR LIGHTING CIRCUITS SHALL BE 30".
- 14. CONTRACTOR IS CAUTIONED THAT THESE PLANS ARE DIAGRAMMATIC ONLY AND THAT EXACT LOCATIONS AND ROUTINGS FOR NEW WORK SHALL BE AS OBVIOUSLY INDICATED AND AS DIRECTED BY OWNER, WITH MODIFICATIONS AS REQUIRED TO AVOID CONFLICTS IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH NEW

DEMOLITION NOTES

- D6. SEE CIVIL DRAWINGS FOR DEMOLITION PLANS. EXAMINE WORK TO BE DONE AND PROVIDE ALL ELECTRICAL WORK REQUIRED FOR DEMOLITION.
- D7. INCLUDE IN BID ALL WORK REQUIRED FOR TEMPORARY WIRING AND ASSOCIATED ELECTRICAL WORK REQUIRED TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING DEMOLITION PHASE.
- D8. WIRING SYSTEMS SHALL BE REMOVED BACK TO THE SOURCE OF SUPPLY UNLESS NOTED OTHERWISE. CIRCUIT BREAKERS, FUSIBLE SWITCHES, ETC. SUPPLYING LOADS DEMOLISHED AS PART OF THIS CONTRACT SHALL BE LABELED AS SPARE AND SET TO THE OFF POSITION.
- D9. PROVIDE REVISED CIRCUIT DIRECTORIES IN ALL PANELBOARDS AFFECTED BY NEW OR DEMOLITION WORK. INDICATE ALL LOADS, NEW AND MODIFIED.
- D10. INTERRUPTIONS IN ELECTRICAL SERVICE AS REQUIRED FOR THIS WORK SHALL BE COORDINATED WITH AND APPROVED BY OWNER A MINIMUM OF 48 HOURS PRIOR TO PERFORMING WORK.
- D11. ELECTRICAL DEMOLITION GENERALLY INCLUDES REMOVAL OF EXISTING OUTLETS AND DEVICES. WHERE ALL CIRCUIT LOADS ARE REMOVED, DEMOLISH CIRCUITS BACK TO PANELBOARD(S). WHERE ONLY PART OF CIRCUIT LOADS ARE REMÒVED, REWORK CIRCUITS BY EXTENSION AND RECONNECTION TO CONTINUE REMAINING LOADS IN SERVICE BEYOND DEMOLITION AREA.
- D12. SEE CIVIL FOR RELOCATION OF EXISTING UNDERGROUND UTILITIES NOT INDICATED. PROVIDE ALL ASSOCIATED SUPPORTING ELECTRICAL WORK AS REQUIRED.

NON-PAVED AREA - CONCRETE OR PAVING — UNDISTURBED FLOWABLE --ELECTRICAL WARNING TAPE 12" BELOW GRADE -UNDERGROUND CONDUIT(S) CONCRETE OR PAVED AREA

FLOWABLE FILL OR

AS SPECIFIED.

COMPACTED BACKFILL

UNDERGROUND CONDUIT NOT IN A DUCTBANK

- FINISHED GRADE

-ELECTRICAL

WARNING TAPE

12" BELOW GRADE

-UNDERGROUND CONDUIT(S)

--- UNDISTURBED

DIMENSIONS - POLE & FIXTURE SCHEDULED & APPROVED. ---ANCHOR BOLT 1" CHAMFER ALL AROUND. #6 BARE COPPER GRD. WIRE: BOND TO ROD, POLE & ANCHOR BOLTS.-3/4" X 10' COPPERCLAD STEEL GROUND ROD. DRIVE 11' DEEP. REINFORCING STEEL #3 TIES AT 12" O.C. MAX. #6 BARS EACH CORNER.— BRANCH CKT. RACEWAY ANCHOR BOLTS AS -PER DWGS. RECOMMENDED BY POLE - ANCHOR BOLT COVER. MANUFACTURER. BOLTS SHALL NOT BE SHORTER THAN "B" DIMENSION LESS 10 INCHES.

OUTDOOR LIGHTING FIXTURE FOUNDATION

BASE: CONCRETE, 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

	LIGHTING FIXTURE SCHEDULE									
SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMPS*	BALLASTS/DRIVER*	FIXTURE WATTAGE	NOTES		
SA	QUAD-HEAD PARKING LOT FIXTURE (LED)	PHILLIPS GARDCO	ECF-4-135LA-6470-NW	208V.	LED	N/A	554W	PROVIDE WITH TAPERED STEEL POLE AND ARM ASSEMBLY FOR 30' MOUNTING HEIGHT. USC STANDARD PARKING LOT FIXTURE ASSEMBLY. FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL LOCATED IN METER PEDESTAL 'MP-FS-U'.		

NOTES TO SITE LIGHTING FIXTURE SCHEDULE

- 1. LOCATE ALL FIXTURES IN STRICT ACCORDANCE WITH CIVIL AND LANDSCAPE PLANS.
- 3. SEE DETAILS FOR FOUNDATIONS AND OTHER REQUIREMENTS.
- 2. POLE EPA SHALL COMPLY WITH USC STANDARDS. MINIMUM 90MPH (1.3 GUST FACTOR) RATING.

	XISTING S.E. RATED HEDULE — PANELBOARD.		/PE: ■		DD 🗀	I-LINE		OLTA		208,						MO	UNTING	 3: □	FLUSH	■SURF	ACE	AIC RA	ATING 2	 22K
<u>40</u>	O_AMP □ MLO ■ MCB LOAD DESCRIPTION		BRKE			LDCTR	LO	AD K		480, BUS		1G		4W, V		1		$\overline{}$	□ FEE RKR	D-THRU L			SPACES_ CRIPTION	
NO.	PED. LIGHTING	KLWAKK	AMP /20	ø 2	WIRE	COND	A 0.1	B 0.1	C				A 1.0	B 4.8	C	COND	WIRE	Ø	AMP /20/ 50/	TICINIAI (N		MOITA		NO.
<u>5</u> 7 9	PED, LIGHTING PED, LIGHTING		20	2	/10/ /10	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.4		0.4				4.8		4.8	2/1/2	1/0	3	100		EVEN	VI POV	WER PED	6 8 10
717 13 15	PED. LIGHTING		20	2 2	10	177	0.4	0.4	0.5		+		9.7	12.0	9.7	2/1/2	1/0	3	125		FOUN	YTAIN	CTRL PI	//////
17 19 21	HANDRAIL LIGHTING HANDRAIL LIGHTING HANDRAIL LIGHTING		20 20 20 20		/10/ /8/ /6/		0.4	0,6	0.5			1	2.0		1/2,0	3/4	10	1	30				R CTRL	18 20 22 24
25 27 29	HANDRAIL LIGHTING HANDRAIL LIGHTING HANDRAIL LIGHTING HANDRAIL LIGHTING		20 20 20		10 8 10		0.2	0.3	0.3									3	50		INTE	SIX PXIZ RE	NECEP 1.	26 28 30
31 33 35	ACCENT LIGHTING ACCENT LIGHTING CANOPY LIGHTING	FUTURE FUTURE	20 20 20		10 10 6				0.7		+		1.0	1.0		2"		2	/20 /20/		EMEF		ALL BOX	<u>32</u> 34 36
37 39 41	ICANOPY LIGHTING ICANOPY LIGHTING IIRRIGATION CTRL.	FUTURE FUTURE	/20/ /20/ 20	/// /// 1	/8/ /8/ 8	*	1.0				+		0.6	0.6		*	4	2	20		EMER PARI	RG./CA KING L	OT LIGH	//38/ TI 40 42
	CONNECTED LOAD, KVA: A 2.5 B 1.9 C 2.7 NEUTRAL A 29.1 B 28.1 C 26.5 CONNECTED LOAD, KVA:																							
*	KVA, THIS SECTION: A 31.6 B 30.0 C 29.2 REMARK ABBREVIATION LEGEND: STB = SHUNT TRIP BRKR. GFI = GFI BRKR. * DENOTES EXISTING RACEWAY TO BE UTILIZED. SFB = SUB-FEED BRKR. VFY = VERIFY LOAD																							

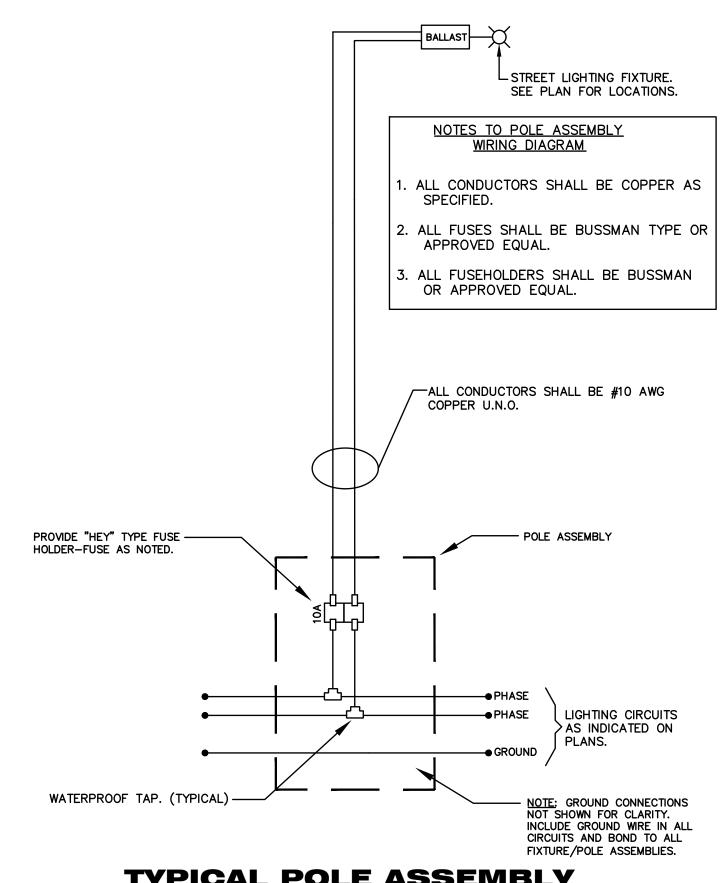
HATCHED AREAS DENOTE WORK ASSOCIATED WITH FOUNDATION SQUARE/GREENE STREET PHASE 1 PROJECT.

ELECTRICAL CYMPOLO

	ELECTRICA	L SYN	MBOLS
\triangleleft	FLOODLIGHT	\$	TOGGLE SWITCH
•—	OUTDOOR LIGHTING STANDARD & FIXTURE	\$ _{WP}	WEATHERPROOF TOGGLE SWITCH
•—□	OUTDOOR LIGHTING STANDARD & FIXTURE	\$₽	LIGHTED TOGGLE SWITCH
T	TRANSFORMER	\$∺	30A MANUAL CONTROLLER SWITCH (DPST)
_	PANELBOARD	\$ M	MOTOR RATED TOGGLE SWITCH
마	SAFETY SWITCH	\$ k	LOCK TOGGLE SWITCH (KEYED)
	ENCLOSED, MOLDED CASE CIRCUIT BREAKER	E	FIRE ALARM PULL STATION
\boxtimes	MOTOR CONTROLLER OR CONTACTOR		FIDE ALABA HODAL CREAKED CEDORE
①	FLUSH JUNCTION BOX CEILING (3—1WALL)		FIRE ALARM HORN\SPEAKER\STROBE (HC DENOTES HIGH CANDELLA)
•	PULL BOX OR JUNCTION BOX IN FLOOR PHOTOCELL, 1800VA U.N.O., AIM NORTH.	Ē	FIRE ALARM STROBE (VISUAL ONLY) (HC DENOTES HIGH CANDELLA)
	TIME SWITCH	∇	TELEPHONE OUTLET (HIGH MOUNT)
		▼	DATA OUTLET (◀HIGH MOUNT)
	TRANSIENT VOLTAGE SURGE SUPPRESSOR(TVSS)	•	TELEPHONE / DATA OUTLET (◀ HIGH MOUNT)
Q	ELECTRIC MOTOR		TELEVISION OUTLET (TV HIGH MOUNT)
•	CONDUIT STUB		PUSHBUTTON
φ	DUPLEX RECEPTACLE (HHIGH MOUNT)		BUZZER, BELL OR CHIME
" ФwР	WEATHERPROOF DUPLEX RECEPTACLE. 16" UP	€	CONNECTION TO EXISTING CIRCUIT
" ФGFI	GROUND FAULT INTERRUPTER RECEPTACLE		BRANCH CIRCUIT RACEWAY — CONCEALED IN WALL OR CEILING
O	DUPLEX FLOOR RECEPTACLE FOR POWER		BRANCH CIRCUIT RACEWAY - CONCEALED IN FLOOR OR UNDERGROUND
⊕	FLOOR OUTLET FOR TELEPHONE AND POWER		BRANCH CIRCUIT RACEWAY - EXPOSED
EX ER	EXISTING; TO REMAIN EXISTING; BEING RELOCATED		
EN	EXISTING; NEW LOCATION	♥\$	
ECB	EMERGENCY CALL BOX		-TYPICAL: SYMBOLS DENOTE EXISTING. REMOVE COMPLETE.
TSP	REMOVABLE TEMPORARY SUPPORT POLE (30')		TYPICAL: "X" ON PLAN SYMBOLS DENOTES EXISTING. REMOVE COMPLETE.
NOTE: /	ALL DEVICES SHOWN ON THIS SCHEDULE ARE SYMBO	OLIC ONL	Y. SEE ELECTRICAL SPECIFICATIONS FOR

SPECIAL NOTE: CONTRACTOR IS CAUTIONED THAT THESE PLANS ARE DIAGRAMMATIC ONLY AND THAT EXACT LOCATIONS OF LIGHTING FIXTURES, METER POINTS, RACEWAY (INCLUDING ROUTING) AND THE LIKE FOR NEW WORK SHALL BE AS OBVIOUSLY INDICATED AND AS DIRECTED BY THE CIVIL ENGINEER. PRIOR TO BIDDING, CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS (ALL TRADES). FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH NEW WORK, TO INCLUDE FIELD MODIFICATIONS AS REQUIRED FOR A COMPLETE PROJECT

EXACT DEVICE REQUIREMENTS AND PERFORMACE CHARACTERISTICS.



TYPICAL POLE ASSEMBLY **WIRING DIAGRAM - SA** NO SCALE

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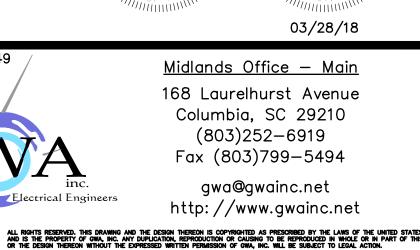
ONSTRUCTION DOCUMENTS

ÖZ

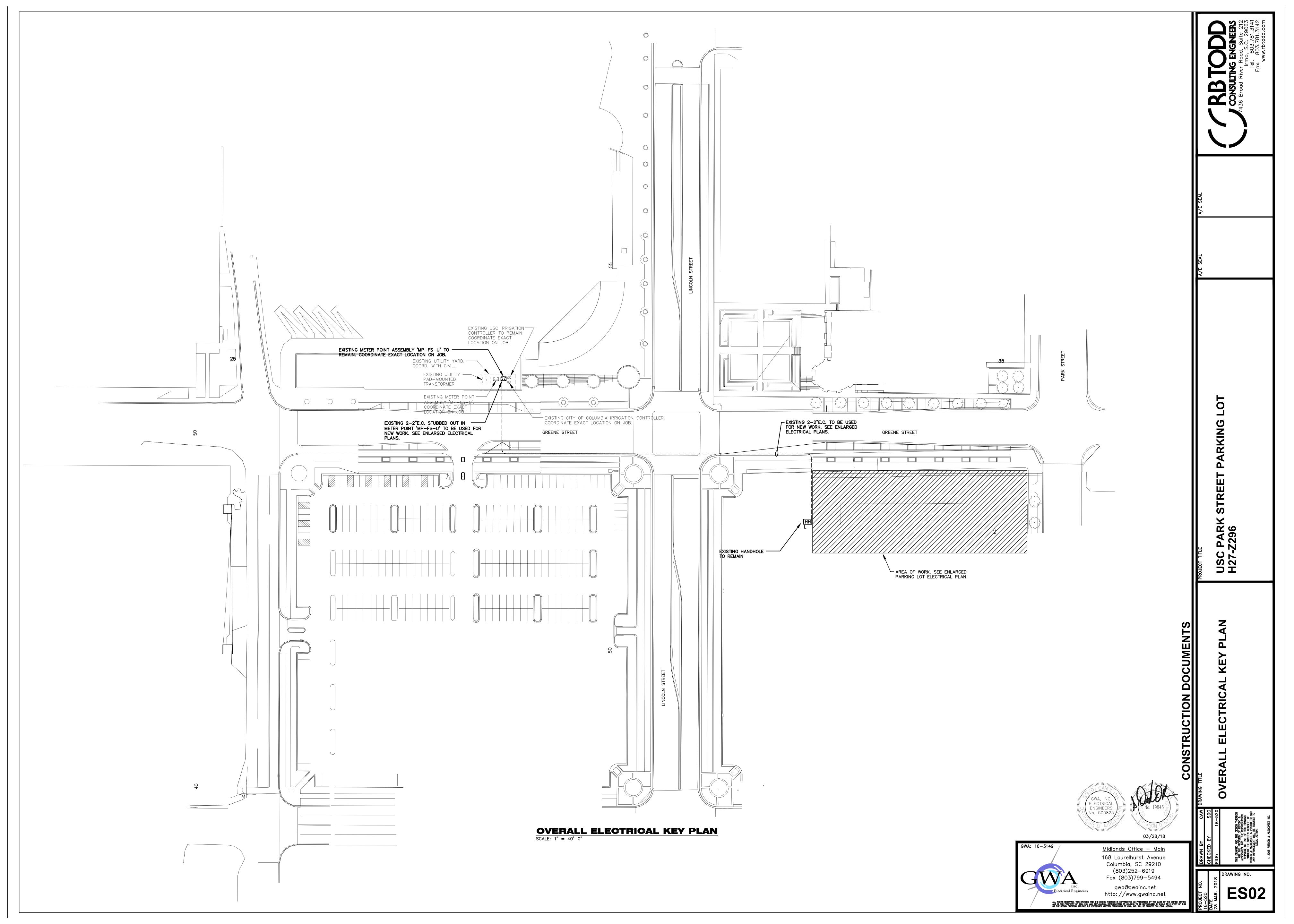
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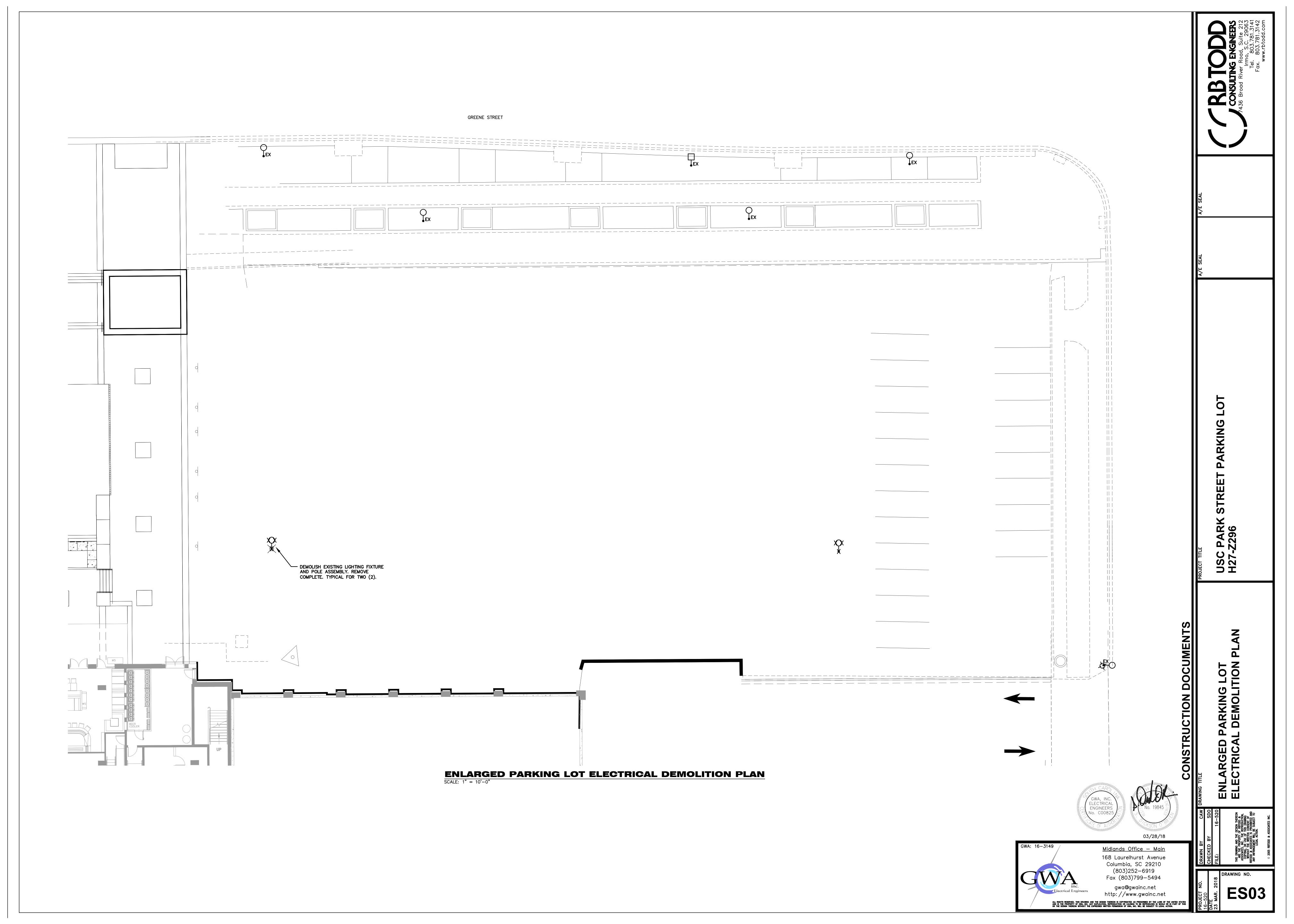
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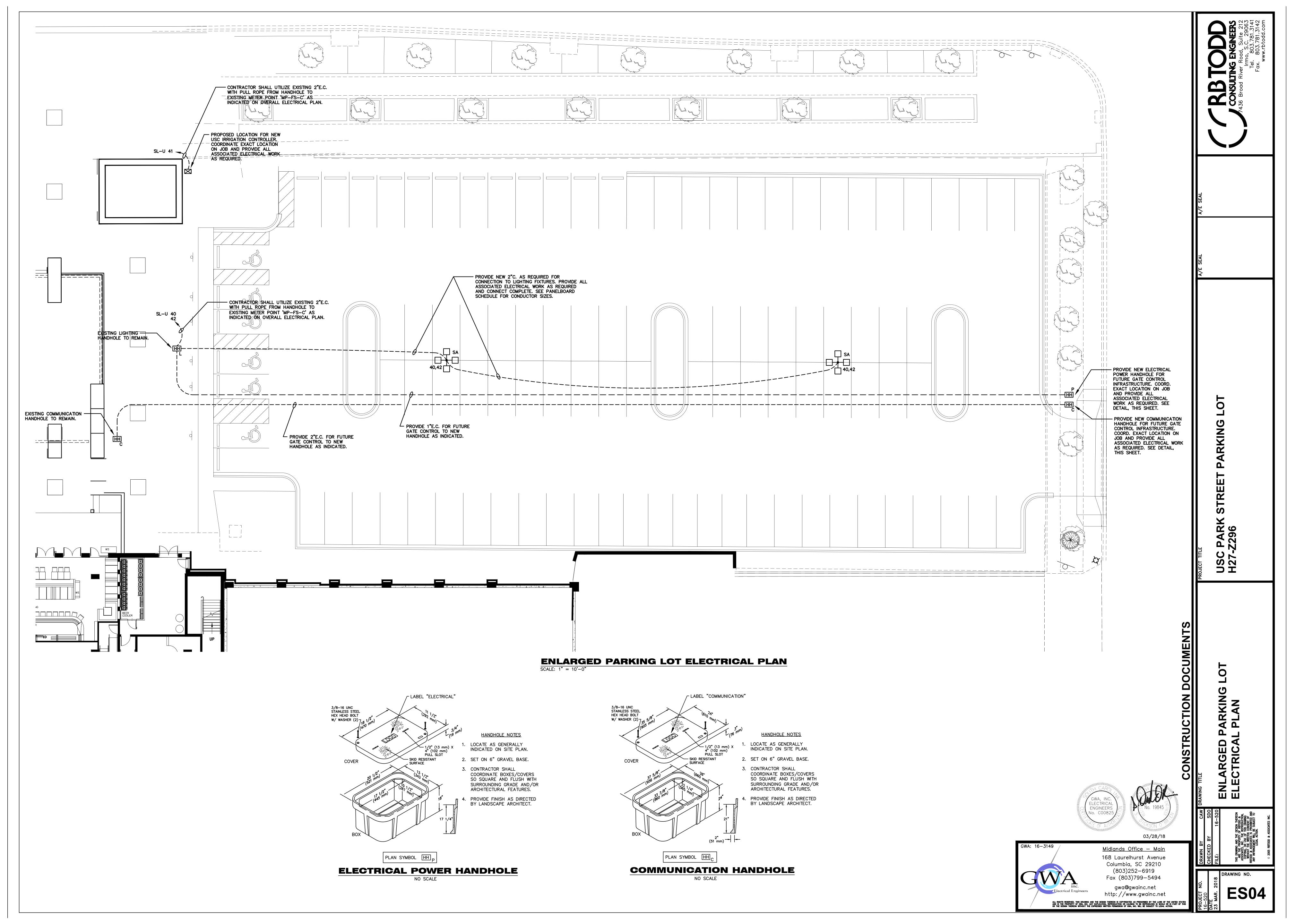


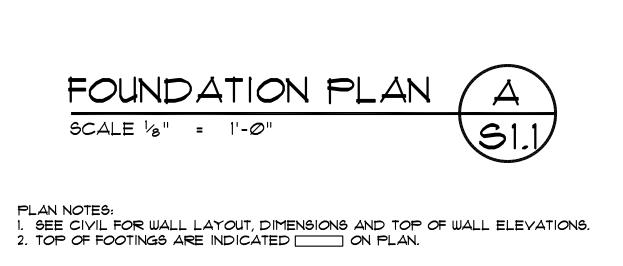


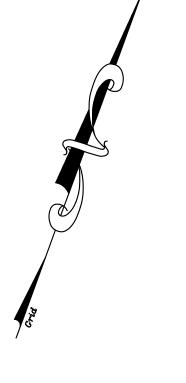
<u>Midlands Office — Main</u> 168 Laurelhurst Avenue Columbia, SC 29210 (803)252 - 6919Fax (803)799-5494 gwa@gwainc.net http://www.gwainc.net











CUT ALTERNATE

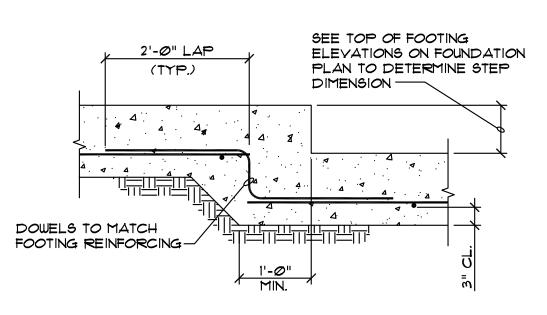
HORIZONTAL BARS 2"

AWAY FROM JOINT -

/- 34" DEEP REVEAL

WALL CONTROL JOINT DETAIL

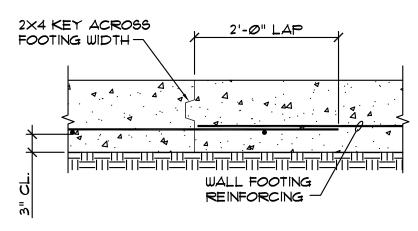
ON BOTH SIDES OF

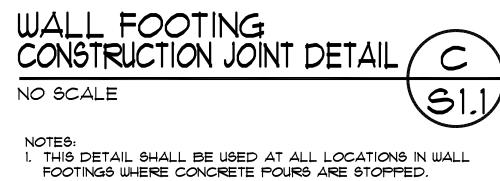




NOTES:

1. SEE FOUNDATION PLAN FOR LOCATIONS OF FOOTING STEPS.





PROVIDE CONT.— 2X4 KEYWAY WATERSTOP

WALL CONSTRUCTION JOINT DETAIL

CUT ALTERNATE

HORIZONTAL BARS 2"

AWAY FROM JOINT -



734" DEEP REVEAL ON BOTH SIDES OF

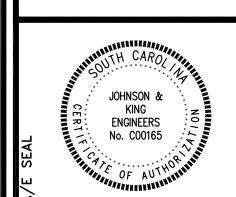
NOTES:

1. PROVIDE CONTROL JOINTS OR CONSTRUCTION JOINTS IN CONCRETE WALLS AT LOCATIONS INDICATED BY "WCJ" ON PLAN.

2. TOOL A MATCHING REVEAL ACROSS THE TOP OF WALL TO ALIGN WITH REVEALS IN FACE OF WALL AT EACH JOINT.

GENERAL NOTES

- 1. FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE THE CIVIL DRAWINGS.
- 2. DESIGN CRITERIA
- 2.1. BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE
- FOUNDATIONS:
 ASSUMED ALLOWABLE BEARING PRESSURE = 1500 PSF. TESTING AGENCY SHALL VERIFY FOOTING BOTTOMS FOR BEARING PRESSURE BEFORE CONCRETE IS PLACED.
 COMPACT ALL FOOTING BOTTOMS WITH A MECHANICAL TAMPER.
 SEE THE EARTHWORK SPECIFICATIONS FOR COMPACTION REQUIREMENTS AND OTHER REQUIREMENTS.
- 4. CONCRETE: 28-DAY COMPRESSIVE STRENGTHS SHALL BE AS SHOWN BELOW.
 4.1. ALL CONCRETE: 3000 PSI, NORMAL WEIGHT
- 5. CONCRETE REINFORCING STEEL: 5.1. ASTM A615, GRADE 60.
- 52. DETAIL IN ACCORDANCE WITH ACI DETAILING MANUAL, LATEST EDITION. 5.3. LAP ALL BARS WITH CLASS B SPLICES UNLESS NOTED OTHERWISE.
- 5.3. LAP ALL BARS WITH CLASS B SPLICES UNLESS NOTED OTHERWISE. 5.4. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL REINFORCING AT ALL WALL AND FOOTING INTERSECTIONS. LAP WITH CLASS B SPLICES.







PARKING LOT

USC PARK STREET PARKIN H27-Z296

RETAINING WALL FOUNDATION PLAN AND DETAILS

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