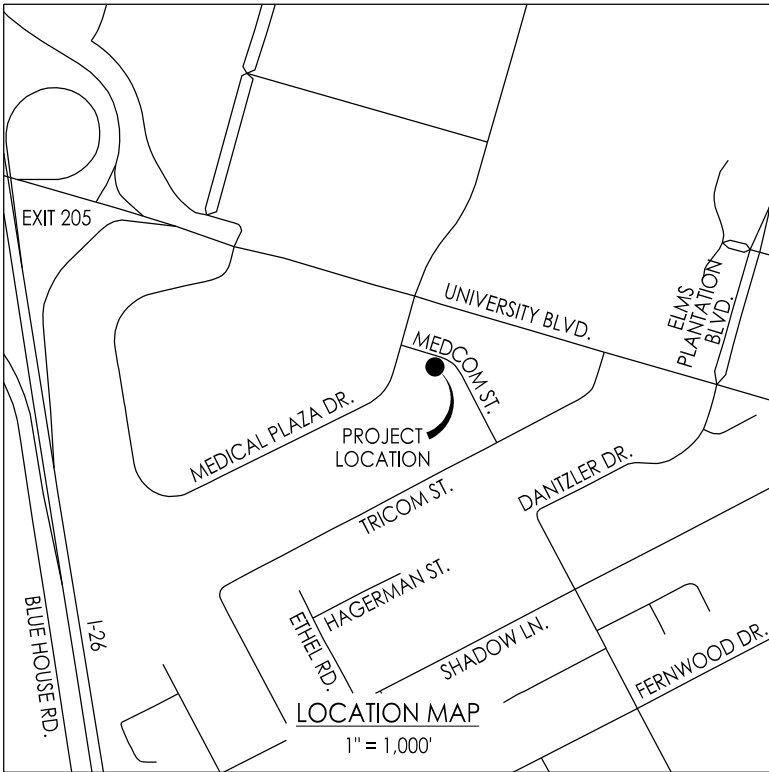




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# MEDCOM STREET BUS STOP 42 RELOCATION

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THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES  
UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD AND  
STAMPED "APPROVED FOR CONSTRUCTION." USE OF THIS DRAWING  
FOR QUANTITY TAKE-OFFS AND PRICING IS PRELIMINARY UNTIL ALL  
APPLICABLE PERMITS HAVE BEEN OBTAINED.




CONSTRUCTION PLANS	JKT	BDK	07.07.23
Revision	By	Appd.	MM.DD.YY

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File Name: 215617098	JKT	BDK	JKT	07.07.23
	Dwn.	Chkd.	Dsgn.	MM.DD.YY

2023.07.07  
PROJECT NUMBER: 215617098

## SUMMARY OF ESTIMATED QUANTITIES

[illegible]

NOTES TO CONTRACTOR

1. ALL LABOR, EQUIPMENT, TOOLS, MATERIALS, TRANSPORTATION AND INCIDENTALS NECESSARY TO COMPLETE CONSTRUCTION OF THE BUS SHELTER FOUNDATION AND INSTALLATION OF THE BUS SHELTER STRUCTURE PROVIDED BY CARTA WILL BE PAID FOR UNDER ITEM 79999999. SEE BUS SHELTER FOUNDATION DETAIL SHEET FOR FURTHER DETAIL OF WORK.



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## Notes

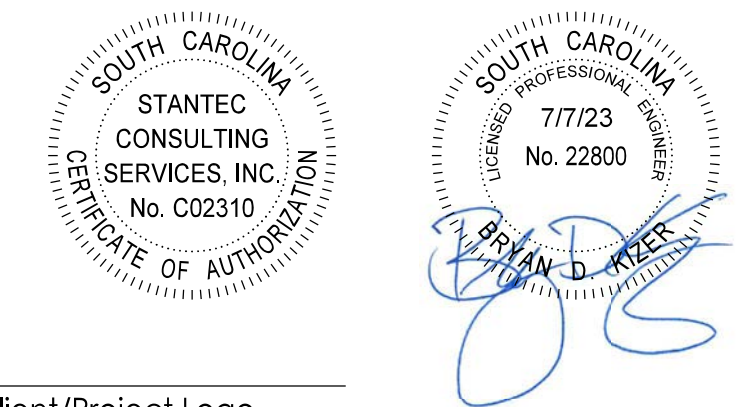


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MEDCOM STREET BUS STOP 42  
RELOCATION  
North Charleston, South Carolina

Title

SUMMARY OF ESTIMATED QUANTITIES

Project No. 215617098		Scale N/A
Revision 0	Sheet 2	Drawing No. 2



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7/7/2023

THE CARTA PROJECT REPRESENTATIVE MUST SPECIFICALLY AUTHORIZE CHANGES INVOLVING INCREASED COST OF PROJECT OR CHANGES IN BUS SHELTER LOCATION. FORWARD INFORMATION ON ANY PROPOSED CHANGES TO THE CARTA OFFICE AS SOON AS POSSIBLE.

THE FOLLOWING QUANTITIES ARE NOT SHOWN IN DETAIL ON THE PLANS BUT ARE INCLUDED IN THE SUMMARY OF ESTIMATED QUANTITIES AND MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

MOBILIZATION	1,000 LS	PER CONTRACT DOCUMENTS
BONDS AND INSURANCE	1,000 LS	PER CONTRACT DOCUMENTS
CONSTRUCTION STAKES, LINES & GRADES	1,000 LS	PER CONTRACT DOCUMENTS
TRAFFIC CONTROL	1,000 LS	PER CONTRACT DOCUMENTS
CLEARING & GRUBBING WITHIN ROADWAY	1,000 LS	PER CONTRACT DOCUMENTS
SITE EXCAVATION	1,000 LS	FOR GRADING & EARTHWORK

EROSION CONTROL ITEMS

PERMANENT GRASSING FOR SMALL PROJECTS	0.100 ACRE	FOR ALL DISTURBED AREAS
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NOTES TO CONTRACTOR

- ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE FEDERAL, SOUTH CAROLINA, AND LOCAL ORDINANCES REGULATIONS, SPECIFICATIONS AND PERMITS.
- ELEVATIONS SHOWN HEREIN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). THE BEARINGS AND DISTANCES SHOWN HEREIN ARE GRID VALUES BASED ON THE NAD 83 (2011 ADJUSTMENT) SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM.
- THE CONTRACTOR SHALL CONSULT THE SCDOT ENGLISH STANDARD DRAWINGS (LATEST EDITION) AND THE SCDOT STANDARD SPECIFICATIONS (2007) TO ENSURE THE MOST UP TO DATE STANDARDS ARE BEING UTILIZED DURING CONSTRUCTION.
- PROVISIONS SHALL BE MADE TO ENSURE POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. NATURAL DRAINAGE FEATURES DISTURBED BY CONSTRUCTION MUST BE REESTABLISHED. NO PONDING DUE TO SPOILS STOCKPILING OR OTHER ACTIVITIES SHALL BE PERMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND FOR REPAIRING ANY DAMAGE TO SAME. UTILITY LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL CONTACT ALL UTILITIES PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY LOCATING, RELOCATING, CONSTRUCTION AND SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND THE LOCAL AREA ENGINEERING DEPARTMENT AS APPLICABLE.
- WHEN THE CONTRACTOR IS UNABLE TO COMPLETE HIS WORK AS SHOWN ON THE PLANS BECAUSE OF AN EXISTING UTILITY, THE CONTRACTOR SHALL STAKE THE LOCATION OF THE UTILITY PRIOR TO PROCEEDING AND CONTACT THE ENGINEER
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO GRADING.
- THE CONTRACTOR IS RESPONSIBLE TO INSTALL, MAINTAIN, REPLACE AS NECESSARY, AND CLEAN SILT FENCE THROUGHOUT THE PROJECT.
- ALL DISTURBED AREAS SHALL BE GRASSED AND STABILIZED IMMEDIATELY AFTER FINAL GRADING. PRICE TO BE INCLUDED UNDER ITEM 810101 - GRASSING FOR SMALL PROJECT. SHOULD CONSTRUCTION ACTIVITIES STOP IN A SPECIFIC AREA FOR AN EXTENDED PERIOD OF TIME AS DETERMINED BY THE ENGINEER ALL DISTURBED AREAS WHERE CONSTRUCTION IS BEING DELAYED SHALL BE GRASSED AND STABILIZED.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN SILT BARRIERS AROUND ALL DRAINAGE STRUCTURES UNTIL ALL CONSTRUCTION HAS BEEN COMPLETED.
- PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AS MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF SCDHEC-OCRM DEALING WITH EROSION AND SEDIMENTATION.
- MINIMIZE GRADING AT BUS SHELTER FOUNDATION. TIE TO EXISTING GROUND USING MAX. 2:1 FILL/CUT SLOPES.
- SCDOT 2007 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTIONS 203 AND 205 SHALL BE UTILIZED TO PREPARE SITE FOR BUS SHELTER FOUNDATION INSTALLATION.
- LANE CLOSURE REQUIRED FOR CONSTRUCTION OF PROPOSED WORK SHALL COMPLY WITH SCDOT STD. DWG.'S SECTION 610-000. PERMANENT CONSTRUCTION SIGNS SHALL BE PLACED PRIOR TO WORK STARTING AT EACH BUS STOP LOCATION. PLACEMENT SHALL FOLLOW SCDOT STD. DWG.'S SECTION 605-000 AND STD. DWG.'S 605-010-01 SCHEME E. ALL TRAFFIC CONTROL SIGNING, LANE CLOSURE, ETC. FOR CONSTRUCTION OF BUS SHELTERS SHALL BE PAID UNDER 1071000 - TRAFFIC CONTROL.

GENERAL CONSTRUCTION NOTE

SCDHEC STANDARD NOTES

- 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.
- 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.
- 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.
- 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 SCRI00000.
- 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.
- 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.
- 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.
- 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.
- 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.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 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.
- 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.).
- 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; AND
  - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 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.
- 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.
- 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.

SEEDING SCHEDULE - PERMANENT VEGETATION  
(USE ONLY ON NON-CHANNEL DISTURBED AREAS)

MARCH 1 TO AUGUST 30:

COMMON BERMUDA (HULLED) - 50 LBS PER ACRE  
BROWN TOP MILLET - 10 LBS PER ACRE  
FERTILIZER (10-10-10) - 1000 LBS PER ACRE  
AGRICULTURAL LIME - 2000 LBS PER ACRE  
STRAW OR HAY MULCH - 2000 LBS PER ACRE

AUGUST 30 TO FEBRUARY 26:

COMMON BERMUDA (UNHULLED) - 30 LBS PER ACRE  
RYE GRAIN (DO NOT USE ANNUAL ITALIAN RYE GRASS) - 40 LBS PER ACRE  
FERTILIZER (10-10-10) - 1000 LBS PER ACRE  
AGRICULTURAL LIME - 2000 LBS PER ACRE  
STRAW OR HAY MULCH - 2000 LBS PER ACRE

CITY OF NORTH CHARLESTON PROOF ROLL NOTE

- THE CONTRACTOR SHALL NOTIFY THE CITY OF NORTH CHARLESTON PUBLIC WORKS DEPARTMENT (843-745-1026) PRIOR TO CONSTRUCTION FOR THE REQUIRED INSPECTION OF ROADWAY, CURB AND GUTTER, AND STORM DRAINAGE. SUBGRADE AND BASE COURSE SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM DUMP TRUCK IN THE PRESENCE OF PUBLIC WORKS ENGINEERING INSPECTORS. ALL AREAS DETERMINED TO BE UNSUITABLE FOLLOWING INSPECTION SHALL BE EXCAVATED AND RE-COMPACTED WITH SUITABLE MATERIAL TO THE DESIGN ELEVATIONS SHOWN ON THE APPROVED PLANS. INSTALLATION OF THE APPROVED DRAINAGE SYSTEM SHALL BE INSPECTED BY PUBLIC WORKS PERSONNEL. A FINAL INSPECTION SHALL OCCUR PRIOR TO ACCEPTANCE OF THE ROADWAY BY THE CITY.

CITY OF NORTH CHARLESTON CLOSE OUT NOTE

- UPON COMPLETION FOR THIS DEVELOPMENT, THE OWNER SHALL PROVIDE THE CITY OF NORTH CHARLESTON WITH A MS4 CLOSEOUT APPLICATION FORM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 2.2.2 OF CITY OF NORTH CHARLESTON STORMWATER DESIGN MANUAL.

CONSTRUCTION SEQUENCE

- OBTAIN FINAL MS4 APPROVAL AND CITY OF NORTH CHARLESTON ENCROACHMENT PERMIT APPROVAL.
- CONTACT THE NORTH CHARLESTON PW/ENGINEERING A MINIMUM OF 48 TO 72 HOURS PRIOR TO CONSTRUCTION.
- INSTALL GENERAL & EROSION CONTROL MEASURES
- GRADE PROPOSED WORK AREAS & STOCKPILE EMBANKMENT ON SITE
- USE STOCKPILED EMBANKMENT FOR GRADING OR HAUL OFF SITE
- CONSTRUCT BUS SHELTER STRUCTURE
- STABILIZE DISTURBED AREAS
- FINALIZE GRASSING
- REMOVE ALL TEMPORARY GENERAL & EROSION CONTROL MEASURES
- CONTACT NORTH CHARLESTON PW/ENGINEERING FOR FINAL INSPECTION AND CLOSE OUT OF PROJECT.



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Notes



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Client/Project Logo



Client/Project

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MEDCOM STREET BUS STOP 42  
RELOCATION

North Charleston, South Carolina

Title

NOTES

Project No.	Scale
215617098	N/A

Revision	Sheet	Drawing No.
0	3	3



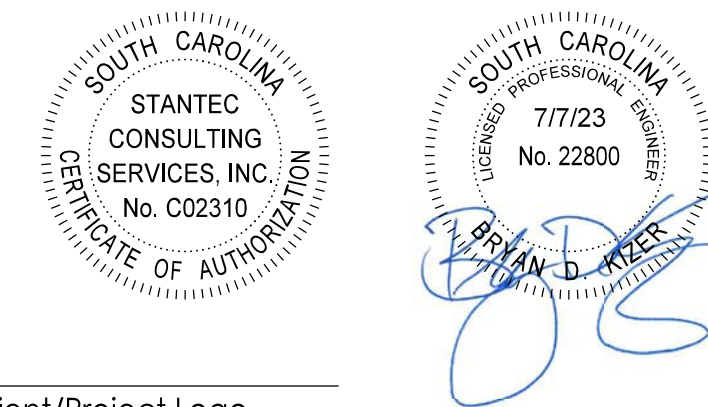


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MEDCOM STREET BUS STOP 42  
RELOCATION  
North Charleston, South Carolina

Title  
FOUNDATION DETAILS

Project No.		Scale
215617098		N/A
Revision	Sheet	Drawing No.
0	4	4

#### 4.0 CONCRETE

1. CONCRETE SHALL HAVE 28-DAY COMPRESSIVE STRENGTHS AND DENSITIES AS FOLLOWS:

ELEMENT/MEMBER	STRENGTH F'C	DENSITY WC
FOOTINGS & SLABS ON GRADE	45 3 KSI	145 PCF
CAST-IN-PLACE WALLS	4 KSI	145 PCF
SLABS ON STEEL DECK	3 KSI	145 PCF
STAIR PAN FILL	3 KSI	145 PCF
ALL OTHER CONCRETE U.N.O.	4 KSI	145 PCF

2. CONCRETE MIX DESIGNS:  
A. SUBMITTALS: SUBMIT WRITTEN REPORTS OF EACH PROPOSED CONCRETE MIX NOT LESS THAN 15 DAYS PRIOR TO THE START OF WORK. DESIGN MIXES PREPARED MORE THAN TWELVE (12) MONTHS PRIOR TO THE DATE OF THE SUBMITTAL ARE NOT PERMITTED.

B. MIX DESIGNS, INCLUDING W/C RATIOS AND SLUMPS SHALL BE PREPARED IN ACCORDANCE WITH THE MOST CURRENT ACI 308 CHAPTER 10. EXCEPT WHERE NOTED OTHERWISE, THE PROPOSED SPECIFICATIONS, CEMENT SHALL CONFORM TO ASTM C 150 TYPE I OR AT CONTRACTOR'S OPTION, ASTM C 595 TYPE IP WHERE FLY ASH IS PERMITTED IN ACCORDANCE WITH THE SPECIFICATIONS. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C 33 AND LIGHT WEIGHT AGGREGATE SHALL CONFORM TO ASTM C 330. NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE PERMITTED IN ANY CONCRETE.

C. AGGREGATE SIZES SHALL BE:  
FORMED CONCRETE ELEMENTS, U.N.O. #67 STONE (3/4" MAX.)  
GRADE SLABS AND EARTH FORMED ELEMENTS #57 STONE (1" MAX.)  
LIGHTWEIGHT CONCRETE ELEMENTS 3/8" MAX. DIMENSION  
COARSE MASONRY GROUT PER SECTION 04230 #8 STONE (3/8" MAX.)  
FINE MASONRY GROUT PER SECTION 04230 #4 STONE (3/16" MAX.)

D. WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE.  
E. AIR ENTRAINING ADMIXTURE IN ACCORDANCE WITH ACI 301-84 TABLE 3.4.J, SHALL BE USED IN ALL CONCRETE EXPOSED TO FREEZING AND THAWING DURING CONSTRUCTION OR SERVICE CONDITIONS.

F. WATER/CEMENT RATIO SHALL NOT EXCEED 0.50 FOR ANY CONCRETE SUBJECTED TO FREEZING/THAWING.  
G. ALL PUMPED CONCRETE SHALL HAVE A WATER/CEMENT RATIO LESS THAN 0.50 AND SHALL CONTAIN A HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER).

H. IN NO CASE SHALL A WATER/CEMENT RATIOS EXCEED THE FOLLOWING:  
F'C 3000 PSI 0.60 MAX. W/C RATIO  
F'C 4000 PSI 0.50 MAX. W/C RATIO

3. CURING:  
A. LIQUID MEMBRANE CURING COMPOUND WITH A MINIMUM 30% SOLIDS CONTENT SHALL BE APPLIED WITHIN TWO (2) HOURS AFTER COMPLETION OF FINISHING TO ALL CONCRETE FLATWORK AND WALLS, U.N.O., OTHER THAN FOOTINGS AND GRADE BEAMS.  
B. FLOORS IN AREAS RECEIVING QUARRY TILE, CERAMIC TILE AND LIQUID FLOOR HARDENER SHALL BE CURED WITH SPECIFIED CURING LIQUID MEMBRANE CURING COMPOUND OR LET CURED BY USE OF MOISTURE RETAINING COVER. DISSIPATING CURING COMPOUND SHALL BE THOROUGHLY BROOMED AND WASHED OFF PRIOR TO APPLICATION OF FLOOR FINISH.

4. WHERE USE IS DESIRED, SUBMIT FOR ENGINEER'S APPROVAL A NON-CORROSIVE, NON-CHLORIDE, ACCELERATING ADMIXTURE FOR CONCRETE EXPOSED TO TEMPERATURE BELOW 40 DEGREES, UNIFORMITY HEAT WATER AND AGGREGATES TO A TEMPERATURE OF NOT LESS THAN 50 DEGREES. PLACE AND CURE CONCRETE IN ACCORDANCE WITH ACI 306 "COLD WEATHER CONCRETING."

5. WHEN HOT WEATHER CONDITIONS EXIST, PLACE AND CURE CONCRETE IN ACCORDANCE WITH ACI 305 "HOT WEATHER CONCRETING". COOL MATERIALS BEFORE MIXING TO MAINTAIN CONCRETE PLACEMENT TEMPERATURE BELOW 90 DEGREES.

6. ALL CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE UNLESS THE STRUCTURAL ENGINEER APPROVES THEIR ELIMINATION.

7. ADDITIONAL CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, ARE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND MAY REQUIRE ADDITIONAL REINFORCING SHALL PASS CONTINUOUSLY THROUGH THE JOINT.

8. REINFORCING IN ALL ABUTTING CONCRETE, INCLUDING FOOTINGS, SHALL BE CONTINUOUS THROUGH OR AROUND ALL CORNERS OR INTERSECTIONS. DOWELS OR SPLICES SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ABUTTING MEMBERS.

9. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIPS, REGLETS, WASHES, MASONRY ANCHORS, BRICK LEDGE ELEVATIONS, SLAB DEPRESSIONS AND MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.

10. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES, WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.

11. REFER TO PLUMBING, MECHANICAL, NO ELECTRICAL DRAWINGS FOR UNDERFLOOR, PERIMETER AND OTHER DRAINS AND FOR SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR THEIR ITEMS.

12. BAS PLATES, ANCHOR BOLTS, SUPPORT ANGLES AND OTHER STEEL EXPOSED TO EARTH OR GRANULAR FILL SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.

13. FILL SLABS, NOT SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE REINFORCED WITH A MINIMUM OF 6X6-WL4XWL4 WWM UNLESS NOTED OTHERWISE ON OTHER DRAWINGS OR IN THE SPECIFICATIONS.

14. SLABS ON STEEL DECK SHALL BE PLACED SO THE FINISH SURFACE IS SCREED TO WITHIN 1/4" OF THE TOP OF SLAB (T.O.SLAB) ELEVATION SHOWN ON THE DRAWINGS. SCREED SUPPORTS SHALL BE PLACED OVER OR IMMEDIATELY ADJACENT TO BEAM OR GIRDER LINES SCREED SUPPORTS SHALL NOT BE LOCATED ON DECK SPANNING BETWEEN BEAMS OR GRIDERS.

15. FINISHING TOLERANCE SHALL BE WITHIN CLASS B IN ACCORDANCE WITH ACI 309 AND CONSIDERATION SHALL BE GIVEN TO SEQUENCING OF CONCRETE PLACEMENT TO FACILITATE CONTROL OF FINISH ELEVATIONS.

16. GROUT:  
A. GROUT BELOW STRUCTURAL STEEL BASE PLATES SHALL BE NON-SHRINK GROUT WITH A MINIMUM STRENGTH OF 6000 PSI WHEN BEARING ON 3000 PSI CONCRETE OR LESS, A STRENGTH OF 8000 PSI WHEN BEARING ON CONCRETE BETWEEN 3000 AND 4000 PSI AND, UNLESS NOTED OTHERWISE ON THE DRAWINGS, A STRENGTH OF 8000 PSI WHEN BEARING ON CONCRETE GREATER THAN 4000 PSI.

B. NON-SHRINK GROUT SHALL BE PRE-MIXED, NON-CORROSIVE, NON-METALLIC, NON-STAINING CONTAINING SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AND WATER REDUCING AGENTS. PRODUCT SHALL ONLY REQUIRE THE ADDITION OF WATER. MINIMUM COMPRESSIVE STRENGTH SHALL BE 2500 PSI AFTER ONE DAY AND 6000 PSI AFTER 28 DAYS. GROUT SHALL BE FREE OF GAS PRODUCING OR AIR RELEASING AND OXIDIZING AGENTS AND CONTAIN NO CORROSIVE IRON, ALUMINUM OR GYPSUM.

17. PROVIDE CONCRETE GROUT - NOT MORTAR - FOR REINFORCED MASONRY LINTEL AND BOND BEAMS WITHER INDICATED ON DRAWINGS OR AS SCHEDULED.

18. TOLERANCE FOR ANCHOR BOLTS AND OTHER EMBEDDED ITEMS SHALL BE PER THE AISC CODE OF STANDARD PRACTICE SECTION 7.5.

19. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL COLUMN, WALL, SLAB OR BEAM EDGES THAT ARE EXPOSED TO VIEW IN THE FINISH STRUCTURE.

#### 5.0 REINFORCING STEEL

1. REINFORCING SHALL BE DOMESTIC NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60 OR 60S INCLUDING STIRRUPS AND TIES, EXCEPT THAT REINFORCING WHICH IS REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706.

2. FIELD BENDING OF CONCRETE REINFORCING STEEL IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

3. WELDED WIRE MAT SHALL CONFORM TO ASTM A184 AND FABRIC TO ASTM A185.

4. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI SP-66 "ACI DETAILED MANUAL - 1994" AND THE "CRS MANUAL OF STANDARD PRACTICE", LATEST EDITION.

5. MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE U.N.O.:

A. UNFORMED SURFACE CAST AGAINST EARTH	2 IN.
B. FORMED SURFACE EXPOSED TO EARTH/WEATHER	2 IN.
C. FORMED SLABS AND WALLS NOT EXPOSED TO EARTH/WEATHER	3/4 IN.
D. ALL OTHER FORMED ELEMENTS NOT EXPOSED TO EARTH/WEATHER	1 1/2 IN.

6. DEVELOPMENT LENGTHS AND LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318-05 CHAPTER 12 AS INDICATED BELOW AND AS INDICATED ON THE DRAWINGS, WHERE SPLICES ARE NOT CALLED OUT ON THE DRAWINGS, USE CLASS "B", THE BASIC DEVELOPMENT LENGTH(S), SHOWN IN INCHES IN PARAGRAPH "A" BELOW, SHALL BE MULTIPLIED BY THE FACTORS IN PARAGRAPH "B" AS INDICATED FOR TENSION OR COMPRESSION AND THEN ROUNDED UP TO THE NEAREST WHOLE INCH. THE FACTORS INDICATED BELOW ARE CUMULATIVE ACROSS ALL OF THE APPLICABLE CONDITIONS. BASIC DEVELOPMENT LENGTHS ARE NOTED AS "N" FOR NOMINAL TENSION DEVELOPMENT, "T" FOR TOP BAR TENSION DEVELOPMENT, AND "C" FOR COMPRESSION DEVELOPMENT.

A. REINFORCING F'Y - 60 KSI

F'C PSI	LDB #3	#4	#5	#6	#7	#8	#9	#10	#11
N	17	22	28	33	48	55	62	70	78
3000T	22	29	36	43	63	72	81	91	101
C	9	11	14	17	20	22	25	28	31

F'C PSI	LDB #3	#4	#5	#6	#7	#8	#9	#10	#11
4000T	19	24	29	34	42	48	54	61	67
C	8	10	12	15	17	19	22	24	27

B. DEVELOPMENT LENGTH MULTIPLIERS: MULTIPLICATION FACTORS APPLY TO THE BASIC "LD" INDICATED ABOVE AND ARE CUMULATIVE OVER EACH OF THE REQUIREMENTS NOTED BELOW.

I. COMPRESSION ENCLOSURE WITHIN SPIRALS, TIES, SLS.

STIRRUPS PER ACI 12.3.3.2 BUT NOT LESS THAN 8".

II. TENSION: CLEAR SPACING < 2 DB OUTSIDE STIRRUPS

III. TENSION: CLEAR SPACING OR COVER < 1 DB INSIDE STIRRUPS.

IV. TENSION: CLASS "C" SPLICE REQUIREMENT.

V. TENSION: BARS IN LIGHTWEIGHT AGGREGATE CONCRETE.

7. A CLASS "B" SPLICE IS REQUIRED WHEREVER ALL REINFORCING BARS CROSSING A SECTION ARE SPLICED.

8. REINFORCING BARS SHALL BE WELDED ON ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS AND WELDS SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE - REINFORCING STEEL" (AWS D1.4), NO OTHER REINFORCING MAY BE WELDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. TACK WELDING OF ANY REINFORCING IS STRICTLY PROHIBITED.

9. WELDED WIRE MAT/FABRIC SHALL BE LAPPED 1'-0" AT ALL SPLICES.

10. ALL REINFORCING TERMINATING AT THE TOPS OF THE COLUMNS AND PILASTERS SHALL BE HOOKED, U.N.O.

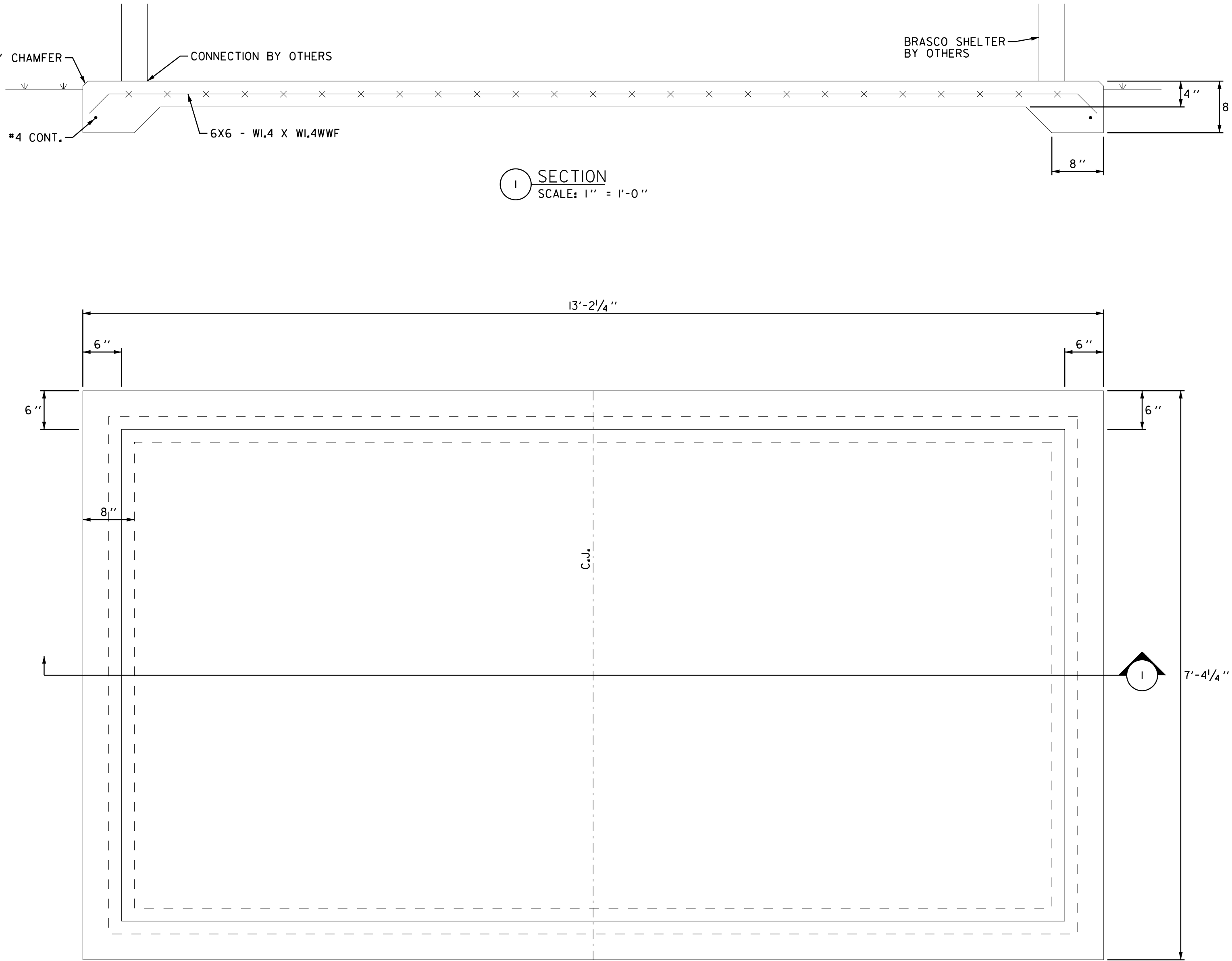
11. SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING, AND PLACEMENT OF CONCRETE REINFORCEMENT, COMPLY WITH ACI DETAILING MANUAL (SP-66) SHOWING BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, AND COORDINATION WITH THE OTHER TRADES.

12. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION AND SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH THE OTHER TRADES.

13. SUBMIT TWO (2) PRINTS OF EACH SHOP DRAWING FOR REVIEW. SEE PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

14. CONTRACTOR SHALL PROVIDE IN HIS SCHEDULE FOR A SHOP DRAWING REVIEW AND RETURN TIME OF A MINIMUM OF FIFTEEN (15) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE.

15. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER 48 HOURS PRIOR TO ALL CONCRETE POURS IN ORDER TO PERMIT REINFORCING STEEL REVIEW IF REQUIRED BY THE STRUCTURAL ENGINEER.



#### 2 FOUNDATION PLAN FOR BUS SHELTER

SCALE: 1" = 1'-0"

#### 1.0 FOUNDATION PLAN NOTES:

1. REFER TO BRASCO INTERNATIONAL, INC DWGS FOR ALL SHELTER DIMENSIONS AND FOUNDATION CONNECTIONS.
2. T/SL ELEVATION IS +0'-0" USED FOR DATUM ELEVATION. ELEVATION FOR FOOTINGS, SLABS, STEEL, WALLS, FLOORS, ELEVATOR PITS, ETC. ARE REFERENCED + OR - FROM DATUM ELEVATION.
3. TYPICAL SLAB ON GRADE (S.O.G.) IS 4" NORMAL WEIGHT CONCRETE REINFORCED WITH 6X6-WL4XWL4 WWM (FLAT SHEETS) ON COMPACTED FILL. ROLLED MESH IS NOT PERMITTED. SUPPORT WWM AT 1" FROM TOP OF S.O.G. WITH SAND PLATES (CHAIRS WITH SHEET METAL PLATE BASES) OR OTHER ACCEPTABLE DEVICES. BRICKS ARE NOT PERMITTED. SEE ARCH. DWGS. SPECIFICATION FOR MOISTURE BARRIER RETARDER.
4. CONTROL JOINTS - SAW CUT OR STRIPPABLE - ARE SHOWN ON PLAN - REFER TO "CONTROL JOINT" DETAILS.
5. NO UNDERCUTTING AND BACKFILLING IS PERMITTED UNDER ANY FOOTINGS DUE TO HIGH ALLOWABLE BEARING PRESSURES USED IN FOOTING DESIGN. LEAN CONCRETE (2000 PSI) OR FOOTING CONCRETE SHALL BE USED TO "BACKFILL" ANY OVEREXCAVATION.
6. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, NON-STRUCTURAL MASONRY, AND PRECAST PANEL CLADDING SYSTEMS.
7. ALL DIMENSIONS TO BE VERIFIED BY ARCHITECT / CONTRACTOR PRIOR TO CONSTRUCTION.

#### 2.0 SPECIAL INSPECTIONS PER CHAPTER 17 (IBC 2006)

SPECIAL INSPECTIONS AS DESCRIBED IN CHAPTER 17 OF THE INTERNATIONAL BUILDINGS CODE, 2021 EDITION, ARE NOT REQUIRED FOR THIS PROJECT.

#### 3.0 FILL

1. ALL FILL MATERIAL SHALL BE SELECT MATERIAL CAPABLE OF ATTAINING 95% MAXIMUM DRY DENSITY COMPACTION.
2. THE EXPOSED SOIL SURFACE AFTER EXCAVATION SHALL BE COMPACTED A MINIMUM OF 95% OF THEIR STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 TO A DEPTH OF 8".
3. THIS PROJECT WAS DESIGNED IN THE ABSENCE OF A SOILS REPORT. ALL DESIGN VALUES ARE BASED ON AN ASSUMED BEARING VALUE OF 2000 PSF. THE REASONABLENESS OF THIS ASSUMPTION SHOULD BE VERIFIED PRIOR TO COMMENCING ANY FOUNDATION WORK.
4. ALL EXCAVATIONS FOR FOOTINGS SHALL BE MADE TO THE GRADES SHOWN FOR CONTINUOUS FOOTINGS. CONTRACTOR SHALL TAKE MEASURES AS TO PREVENT CAVE-IN OF THE FOOTING EXCAVATIONS AS MAY BE REQUIRED.
5. COMPACTED FILL MATERIAL SHALL BE FREE OF ORGANICS, STONES, ROCKS, BROKEN BRICKS, WOOD FRAGMENTS, OR OTHER DELETERIOUS MATERIAL THAT AFFECTS THE COMPATIBILITY OF THE MATERIAL.
6. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 10" AND COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
7. PRIOR TO PLACEMENT OF ANY CONCRETE, THE THIN LAYER OF DISTURBED SOIL IN THE FOOTING SUBGRADE SHALL BE COMPACTED WITH HAND OPERATED, GAS POWER TAMPERS.

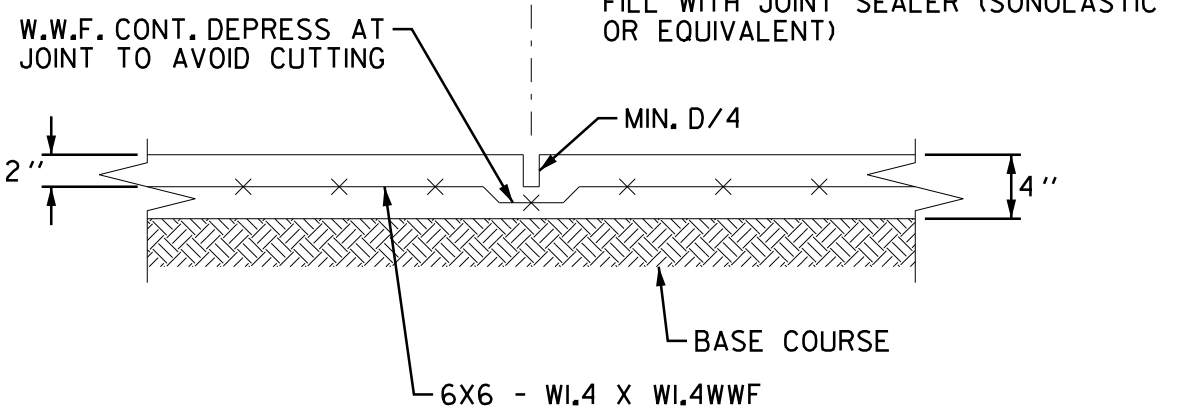
1. INTERNATIONAL BUILDING CODE 2021 EDITION INCLUDING ALL SUBSEQUENT SUPPLEMENTS AND AMENDMENTS THERETO.
2. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7-05.
3. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-05)", AMERICAN CONCRETE INSTITUTE 2005 AND ALL SUCCEEDING REVISIONS.

- 2.0 GRAVITY LOAD DESIGN CRITERIA
1. DEAD LOAD CRITERIA 12 PSF
2. LIVE LOAD CRITERIA 20 PSF

#### 3.0 LATERAL LOADS DESIGN CRITERIA

1. WIND CRITERIA
1. WIND LOAD USED 130 MPH
2. SEISMIC CRITERIA
- HAZARD EXPOSURE GROUP: I
- DESIGN CATEGORY: D
- IMPORTANCE FACTOR: 1.0
- SITE CLASSIFICATION: SITE CLASS D
- ANALYSIS METHOD: SIMPLIFIED
- BASE SHEAR: 2 KIPS

NOTE:  
PROVIDE CONTROL JOINTS  
AT 12'-0" O.C. (MAXIMUM)



#### 3 TYPICAL CONTROL JOIN AT SLAB ON GRADE

SCALE: 1" = 1'-0"



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Notes



Revision	By	Appd	YYYY.MM.DD
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CONSTRUCTION PLANS	JKT	BDK	2023.07.07
Issued	By	Appd	YYYY.MM.DD

File Name: 215617098	JKT	JKT	BDK	2023.07.07
	Dwn.	Dign.	Chkd.	YYYY.MM.DD

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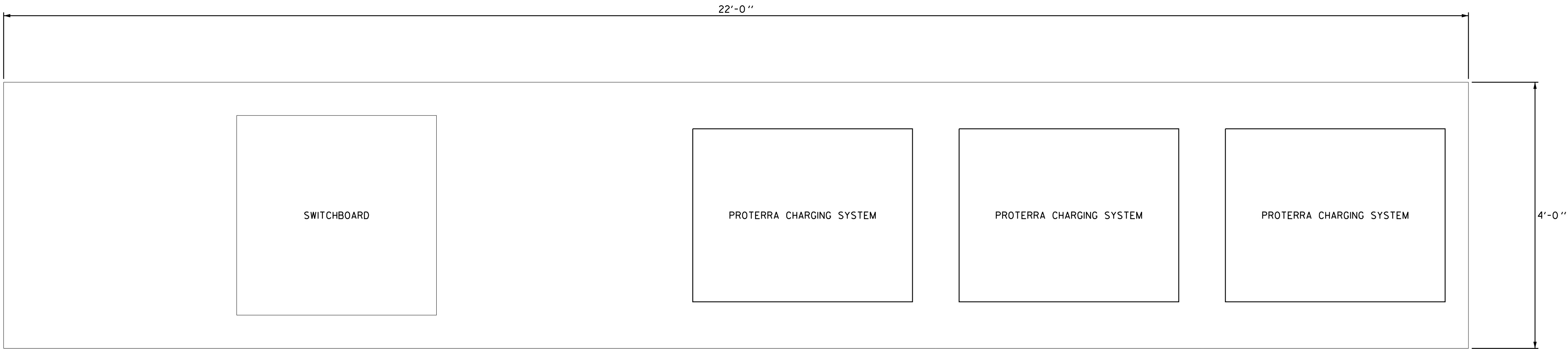
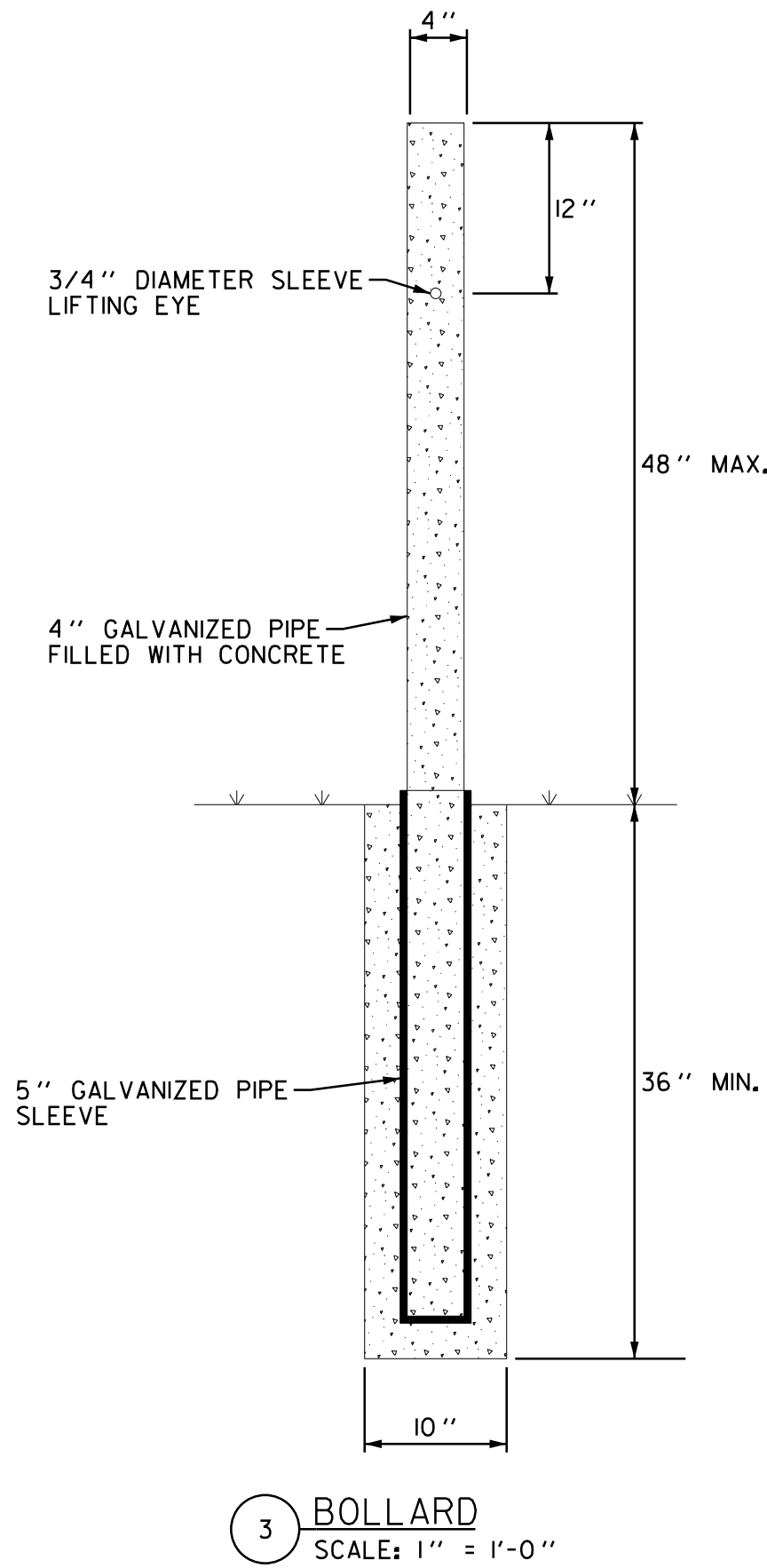
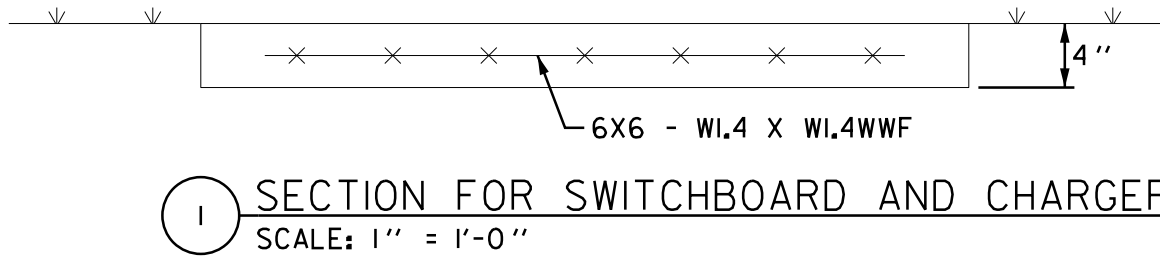


Client/Project  
BCDCOG

MEDCOM STREET BUS STOP 42  
RELOCATION  
North Charleston, South Carolina

Title  
FOUNDATION DETAILS

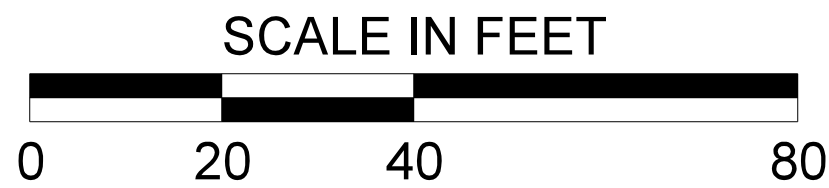
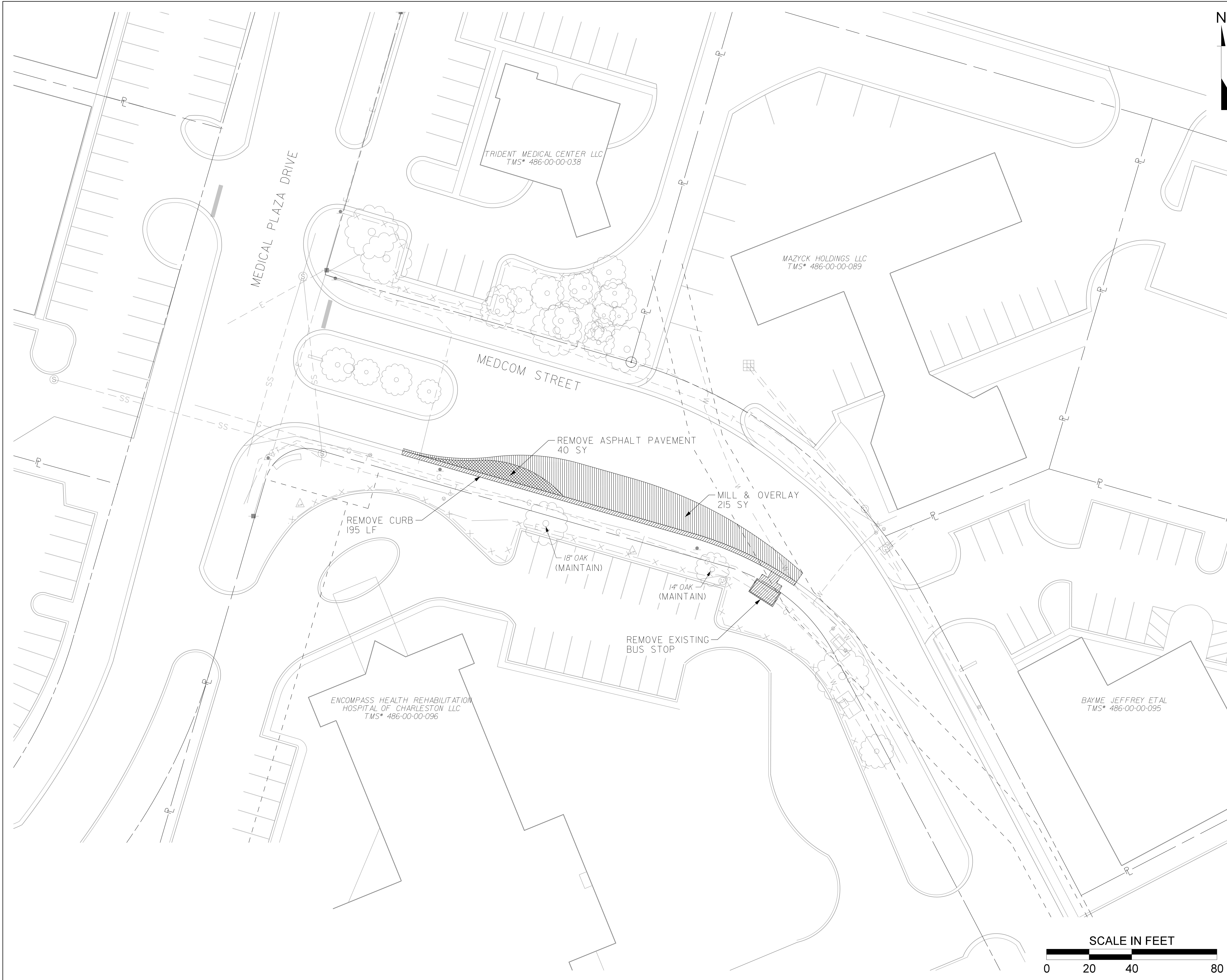
Project No. 215617098	Scale N/A
Revision 0	Sheet 5
	Drawing No. 5



2 FOUNDATION PLAN FOR SWITCHBOARD AND CHARGER  
SCALE: 1" = 1'-0"



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Notes

- LEGEND
- RIGHT-OF-WAY LINE
  - P- PROPERTY LINE
  - - - EASEMENT LINE
  - x x x EXISTING FENCE
  - - - EXISTING PIPE
  - SF - SILT FENCE
  - [Hatched] REMOVE CONCRETE
  - [Cross-hatched] REMOVE PAVEMENT
  - [Vertical lines] MILL & OVERLAY



Revision By Appd YYYY.MM.DD

CONSTRUCTION PLANS JKT BDK 2023.07.07  
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File Name: 215617098 JKT JKT BDK 2023.07.07  
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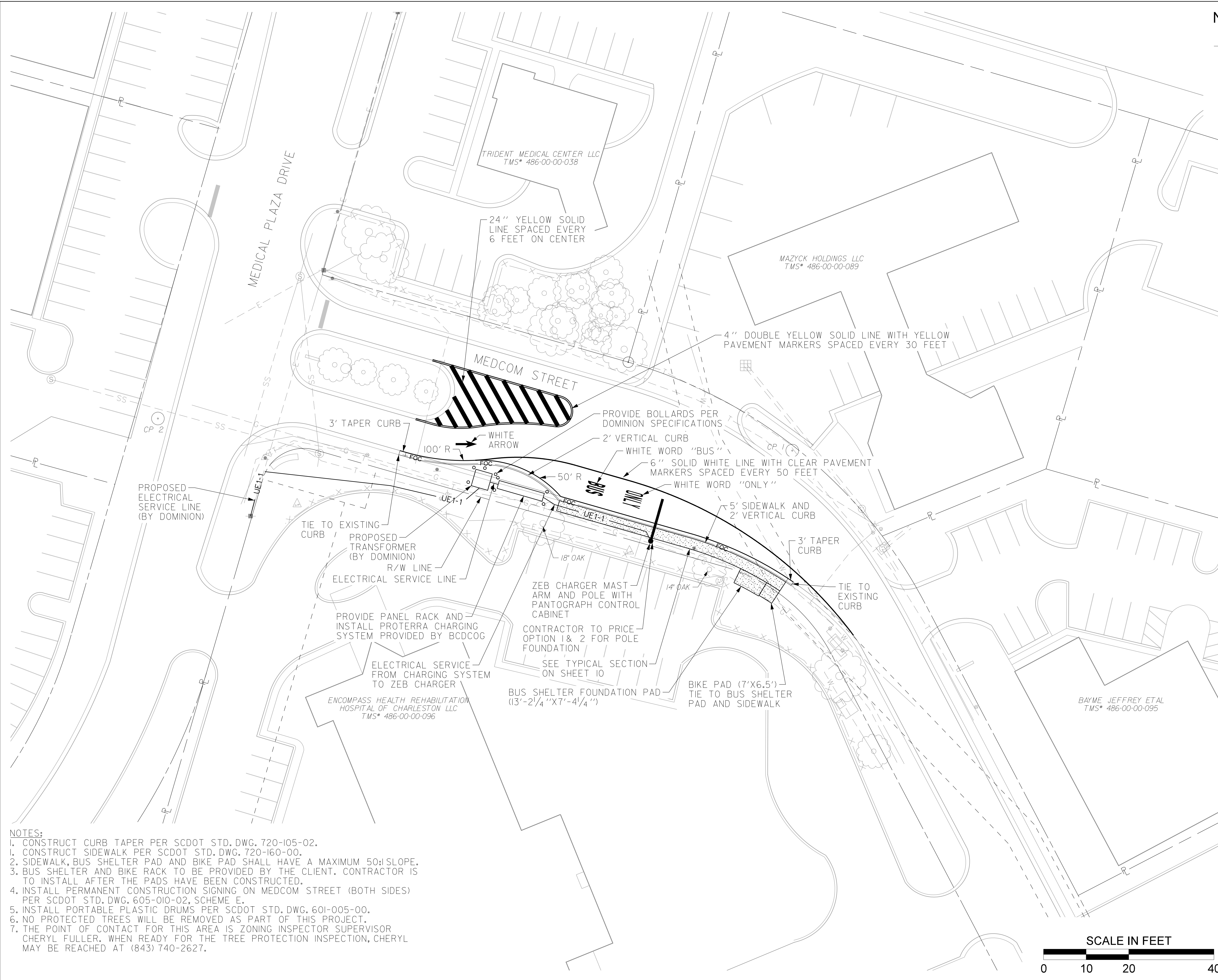
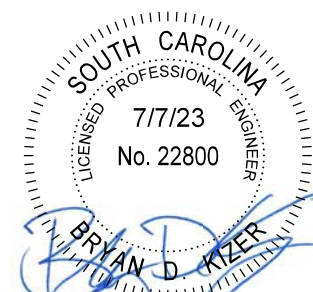
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MEDCOM STREET BUS STOP 42  
RELOCATION  
North Charleston, South Carolina

Title  
DEMOLITION

Project No. 215617098	Scale 1" = 20'
Revision 0	Drawing No. 6
Sheet 6	



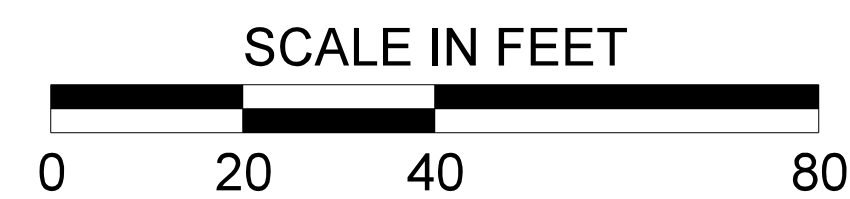
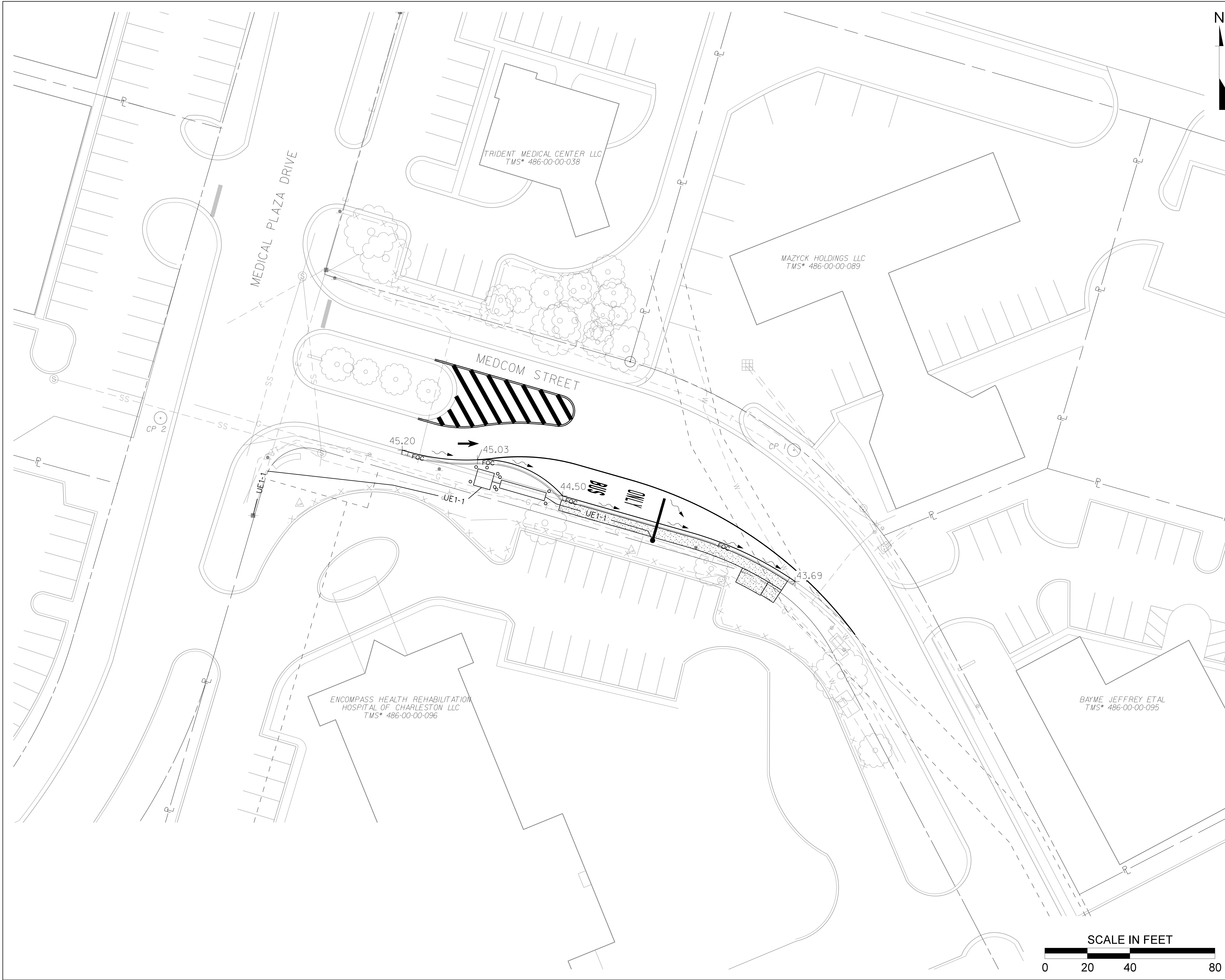


- NOTES:
1. CONSTRUCT CURB TAPER PER SCDOT STD. DWG. 720-105-02.
  1. CONSTRUCT SIDEWALK PER SCDOT STD. DWG. 720-160-00.
  2. SIDEWALK, BUS SHELTER PAD AND BIKE PAD SHALL HAVE A MAXIMUM 50:1 SLOPE.
  3. BUS SHELTER AND BIKE RACK TO BE PROVIDED BY THE CLIENT. CONTRACTOR IS TO INSTALL AFTER THE PADS HAVE BEEN CONSTRUCTED.
  4. INSTALL PERMANENT CONSTRUCTION SIGNING ON MEDCOM STREET (BOTH SIDES) PER SCDOT STD. DWG. 605-010-02, SCHEME E.
  5. INSTALL PORTABLE PLASTIC DRUMS PER SCDOT STD. DWG. 601-005-00.
  6. NO PROTECTED TREES WILL BE REMOVED AS PART OF THIS PROJECT.
  7. THE POINT OF CONTACT FOR THIS AREA IS ZONING INSPECTOR SUPERVISOR CHERYL FULLER, WHEN READY FOR THE TREE PROTECTION INSPECTION, CHERYL MAY BE REACHED AT (843) 740-2627.





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Notes

#### LEGEND

- RIGHT-OF-WAY LINE
- PROPERTY LINE
- EASEMENT LINE
- × × × EXISTING FENCE
- == == EXISTING PIPE
- + 45.03 EXISTING SPOT ELEVATION
- ~> DRAINAGE FLOW ARROW



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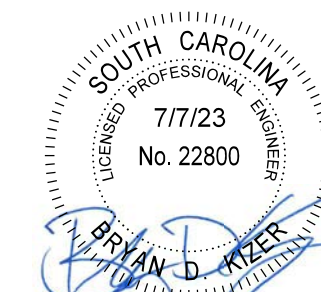
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RELOCATION  
North Charleston, South Carolina

Title  
GRADING PLAN

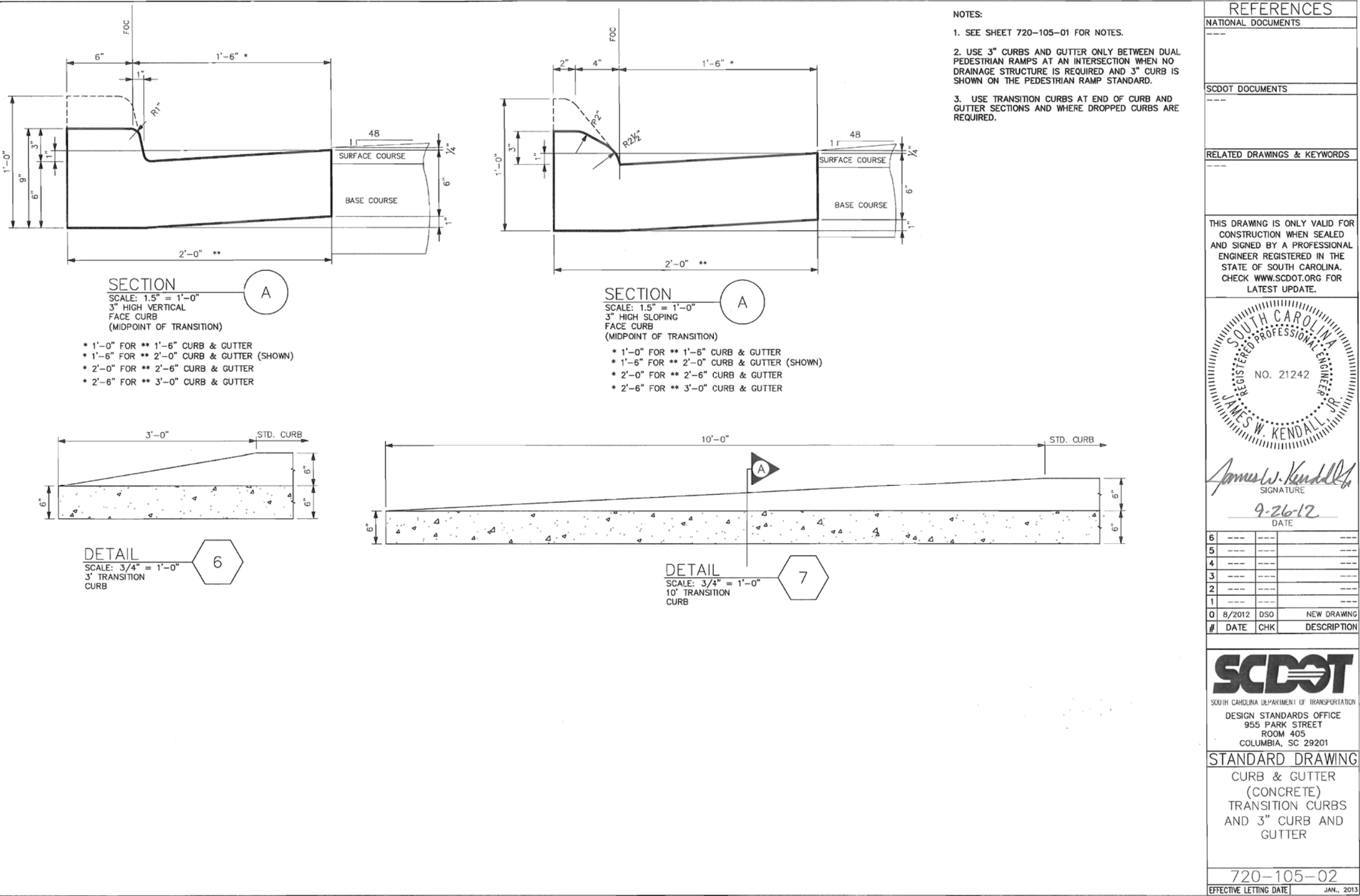
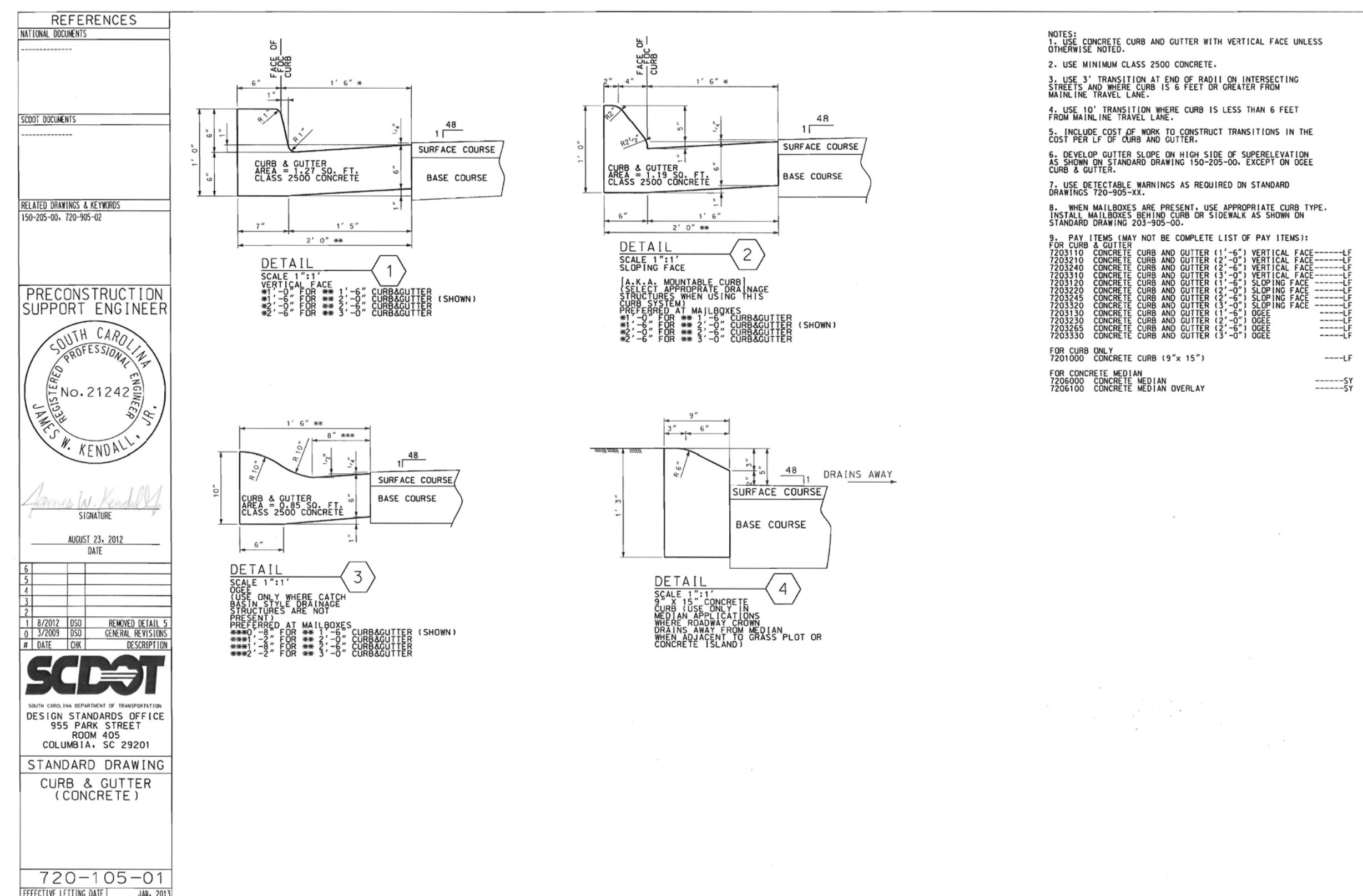
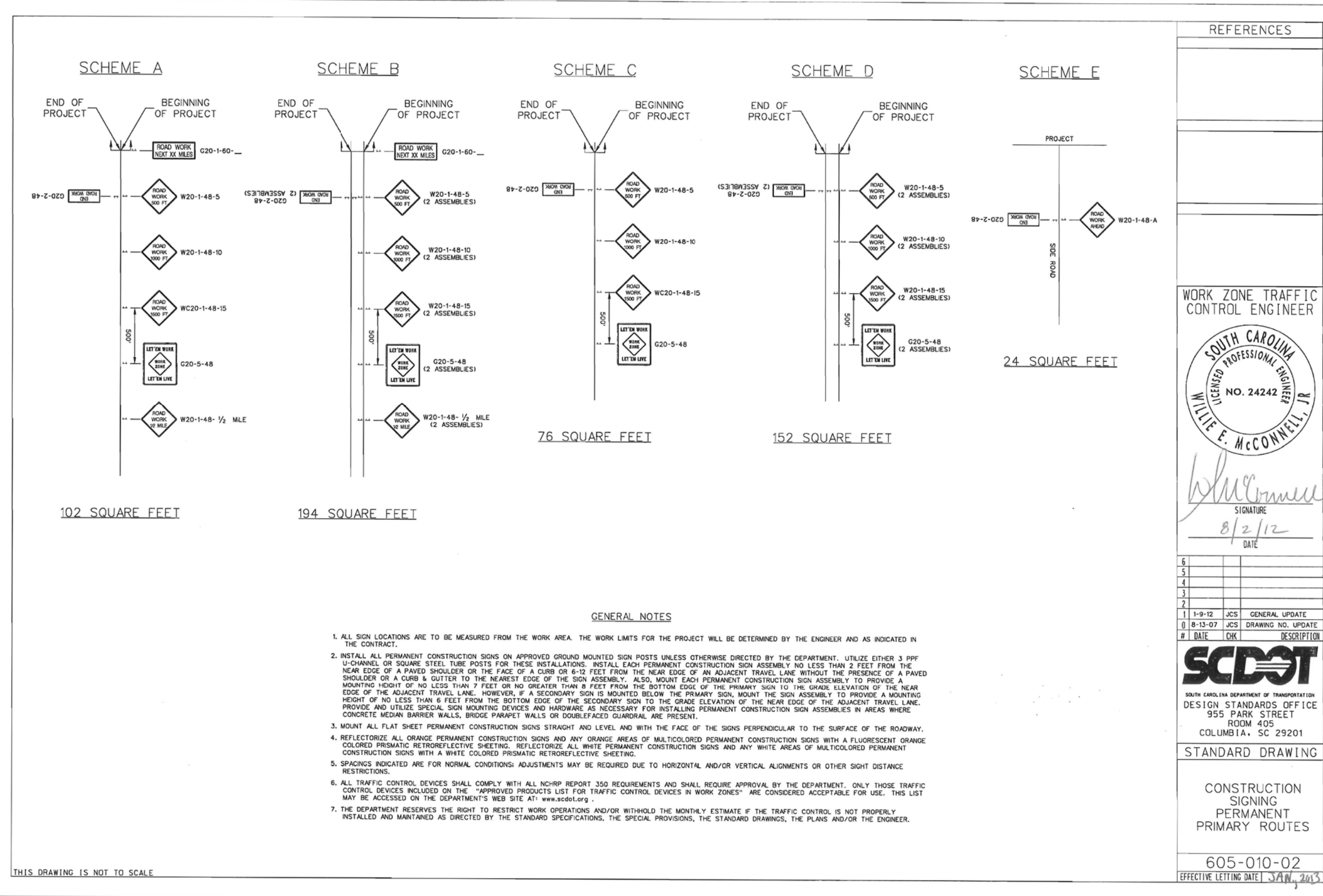
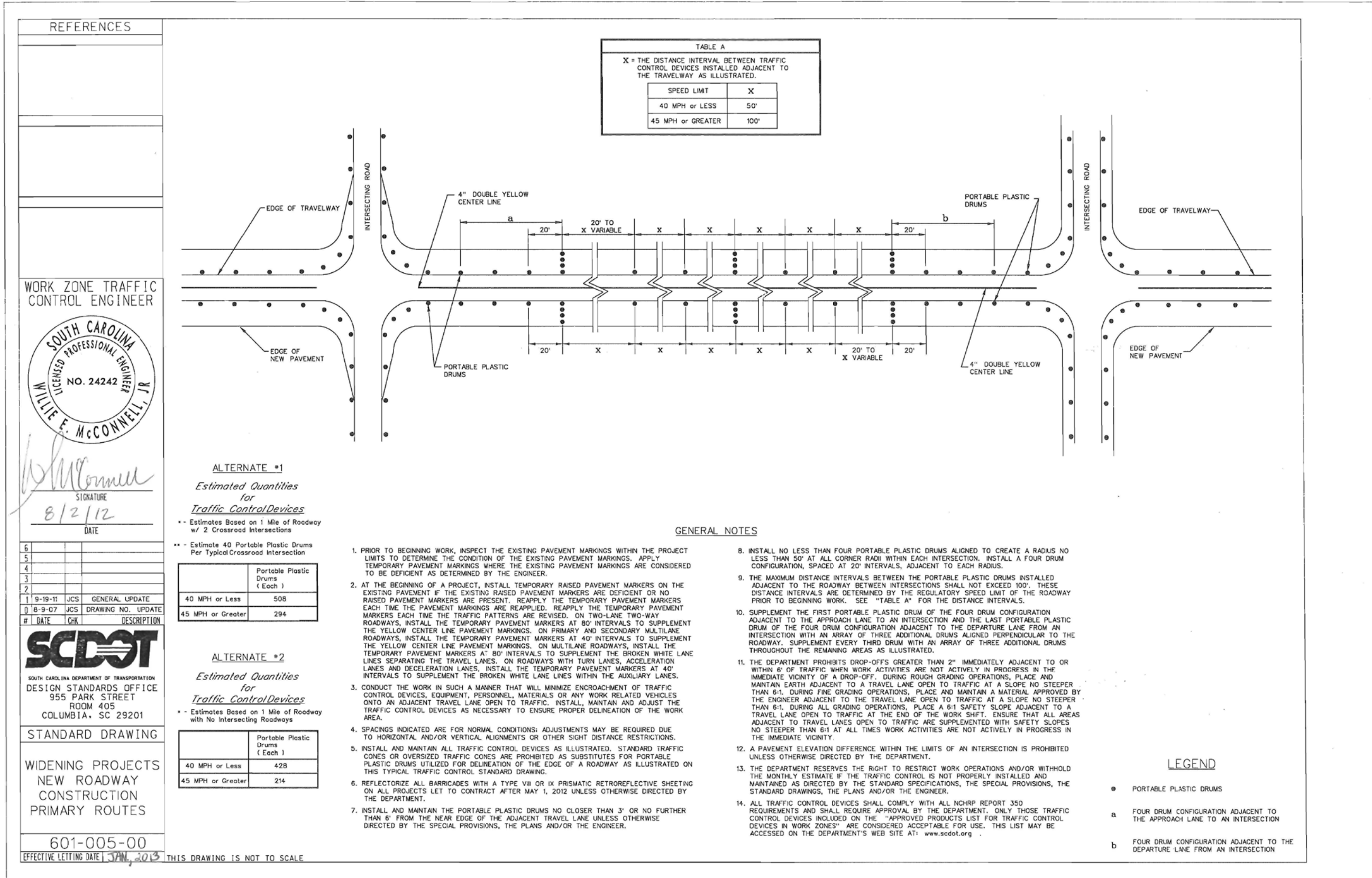
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215617098 1" = 20'

Revision Sheet Drawing No.

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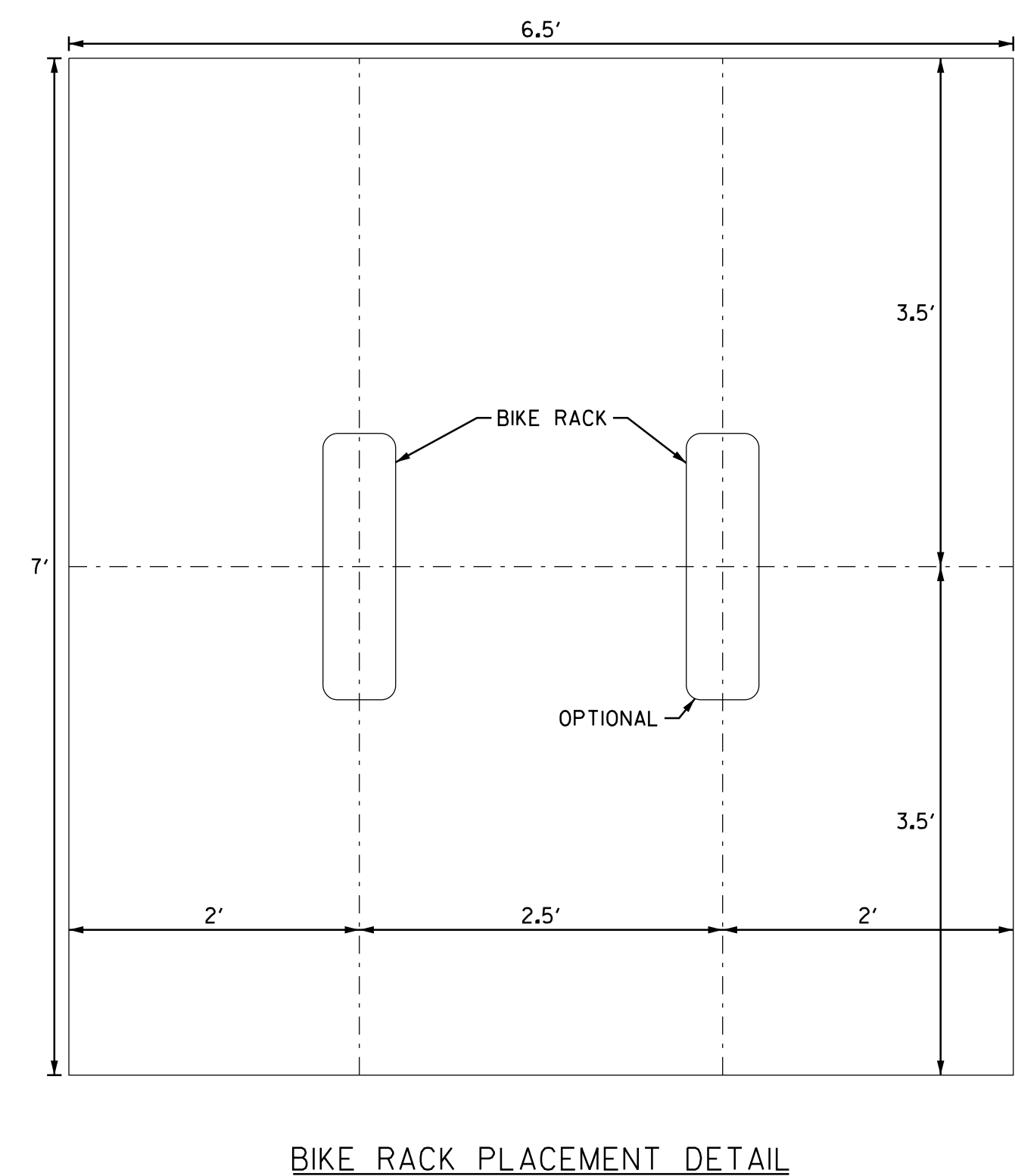
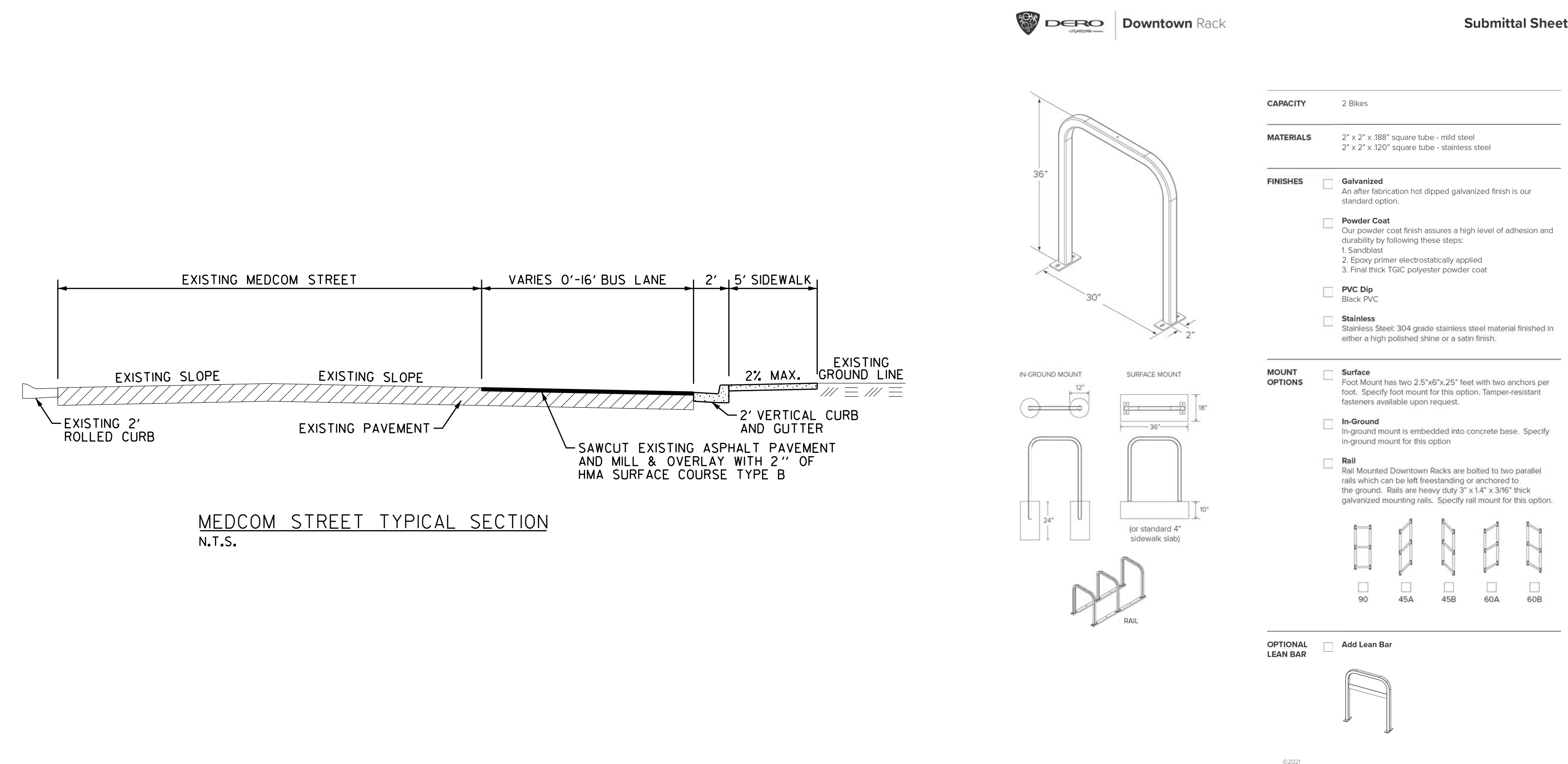
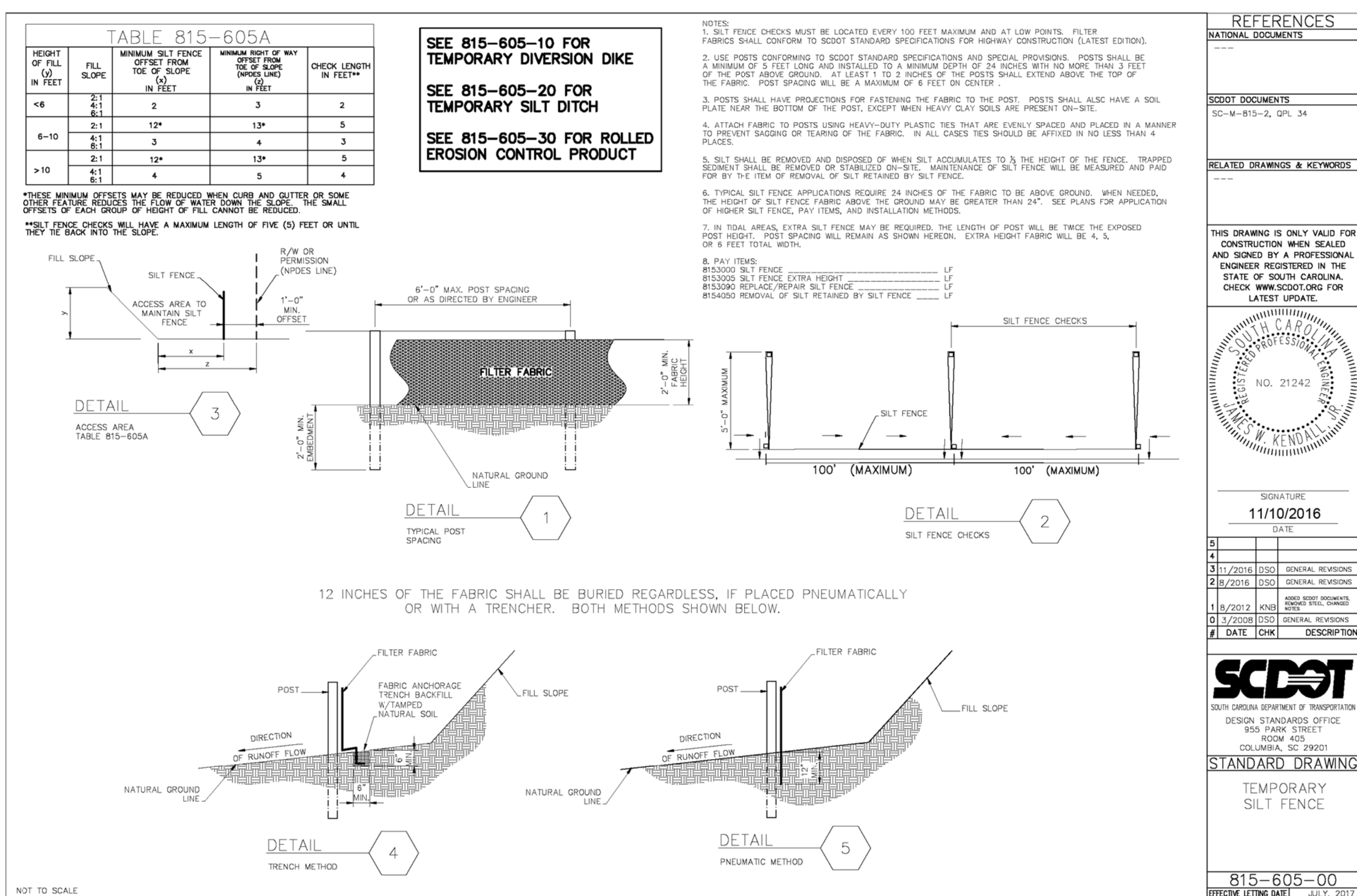
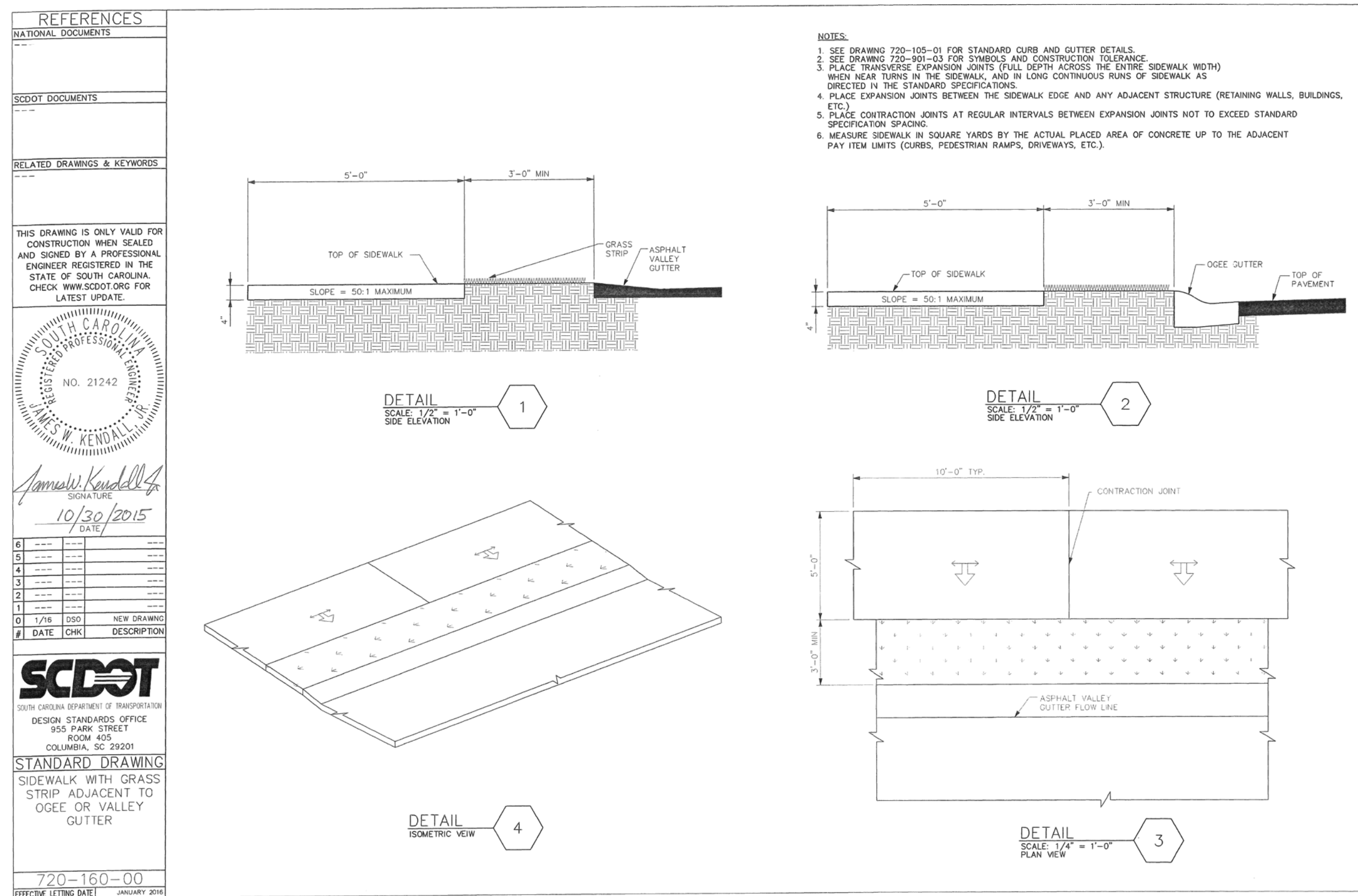








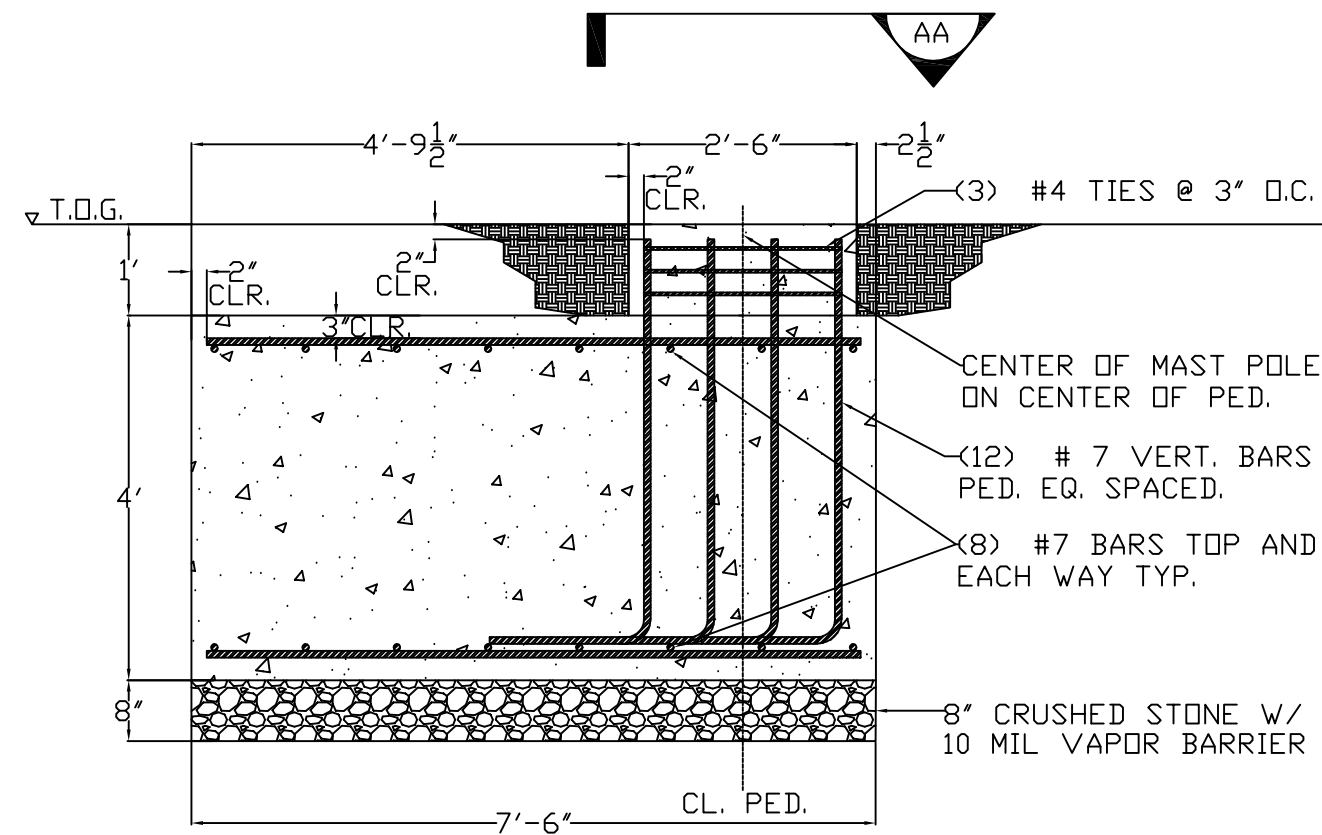
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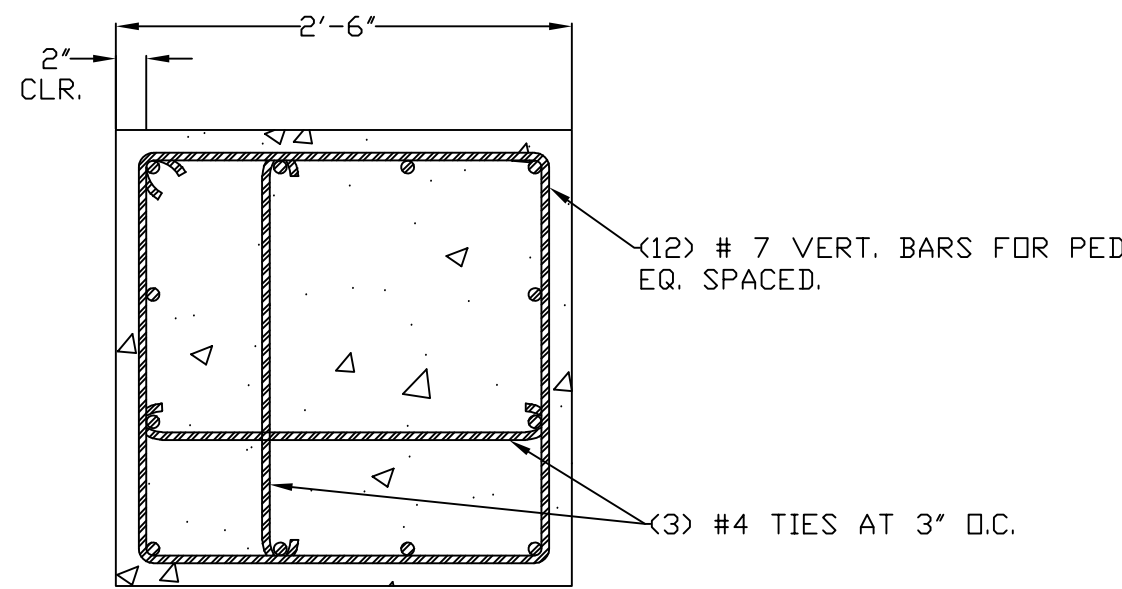
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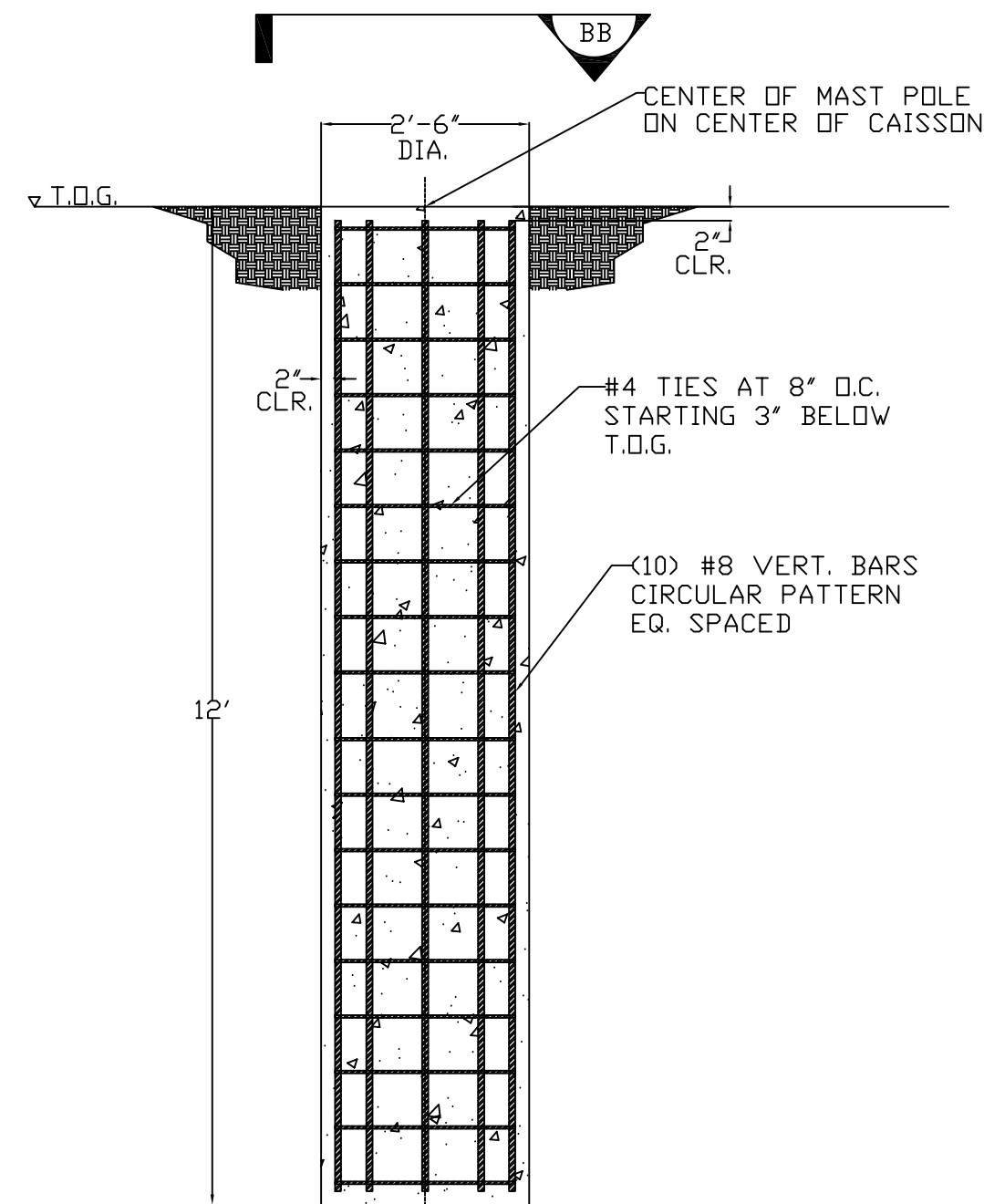
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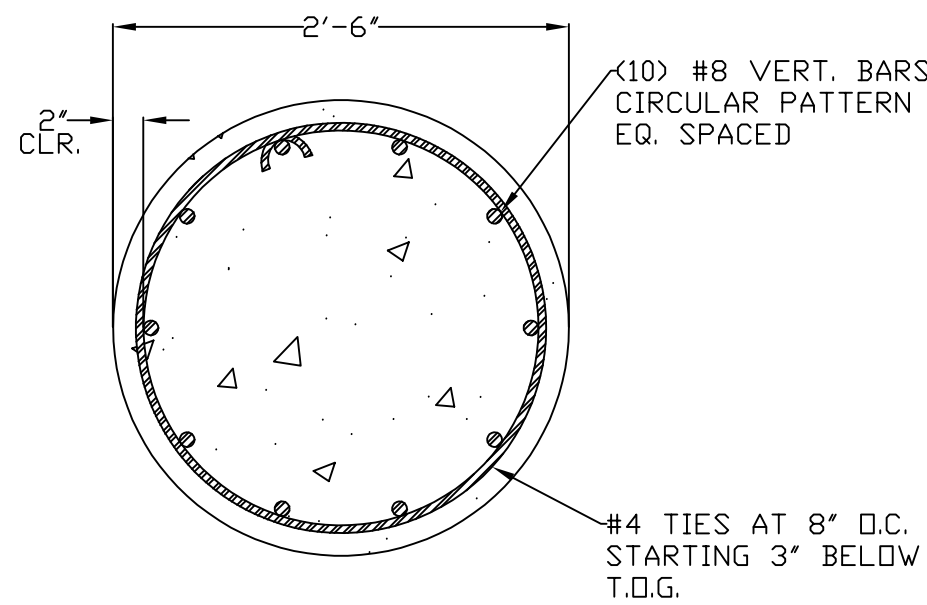
**A1**  
S101  
**OPTION 1 - FOOTING DETAIL**  
6" = 1'-0"



**AA**  
S101  
**SECTION**  
1'-0" = 1'-0"



**A2**  
S101  
**OPTION 2 - CAISSON DETAIL**  
6" = 1'-0"



**BB**  
S101  
**SECTION**  
1'-0" = 1'-0"

#### FOUNDATION NOTES

- FOUNDATIONS ARE DESIGNED FOR THE FOLLOWING ALLOWABLE SOIL BEARING PRESSURE:  
STATIC LOADING: 2,000 PSF  
TRANSIENT LOADING: 4,000 PSF  
ALLOWABLE SOIL BEARING PRESSURE PROVIDED IN GEOTECHNICAL REPORT BY INSIGHT GROUP.  
INSIGHT GROUP NUMBER: 22-0159. DATED 09/02/2022.
- TOP OF FOUNDATIONS FLUSH WITH TOP OF GRADE AT 0'-0".



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MEDCOM STREET BUS STOP 42  
RELOCATION  
North Charleston, South Carolina

Title  
MAST POLE FOUNDATIONS

Project No. Scale

215617098

Revision Sheet Drawing No.

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Project No. 215617098 Scale N/A  
Revision 0 Sheet 11 Drawing No. 11

