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City of Sumter Sumter County, South Carolina



Construction Drawings Veterans Park -Ph. 2 ITB# 36-24/25 BID SET

PROJECT OWNER

SUMTER COUNTY/ CITY OF SUMTER
13 EAST CANAL STREET
SUMTER, SC 29150
803.436.2329

CIVIL ENGINEER

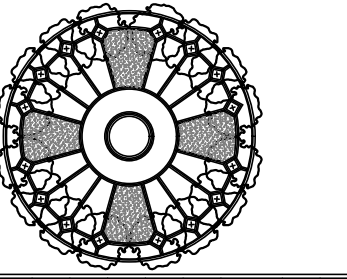
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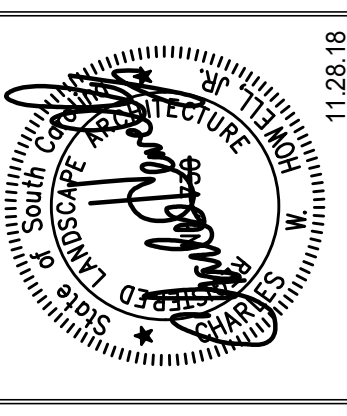
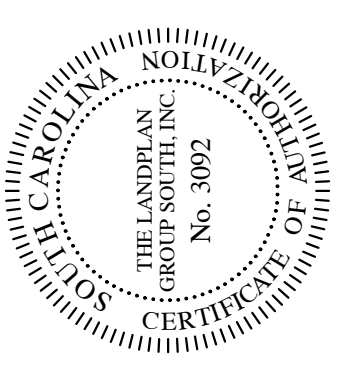
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REVISION	BY	APPD.	MAJ.DDY
1. CONSTRUCTION SET	CWH	CWH	01.21.19
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FILE NAME: 754_BASE_030818	PTL	CWH	03.05.18
	DWN	CHKD.	DSCN
			MMJ.DDY



VETERANS PARK PHASE 2
CONSTRUCTION DRAWINGS
CITY OF SUMTER, SOUTH CAROLINA
COVER

JOB #: 754
SCALE: N.T.S.
SHEET: 1 OF 6

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Erosion Control Notes:

- 1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO GRASSING/HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
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 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 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 ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
5. 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 COMPLETED AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE 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 SCRI100000.
8. 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.
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-FT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WoS. A 10-FT 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, INSPECTION 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 THE FINAL STABILIZATION IS REACHED.
12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF SEVEN (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, FROM 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. INSPECTIONS TO BE PERFORMED BY A SCDHEC CEPSCI CERTIFIED INSPECTOR.
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 MORE THAN 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
20. SILT FENCING LINE ON EROSION CONTROL PLAN SHEETS ARE SHOWN FOR GRAPHICAL PURPOSES. SILT FENCING SHALL BE PLACED AT THE LIMITS OF DISTURBANCE

Sequence of Construction:

- ITEMS MUST OCCUR IN THE ORDER LISTED; ITEMS CANNOT OCCUR CONCURRENTLY UNTIL SPECIFICALLY NOTED. IF ITEMS DESCRIBED BELOW ARE NOT A PART OF THE SWPPP CONTRACTOR TO ADDRESS NEXT ITEM ON THIS LIST.
1. RECEIVE NPDES COVERAGE FROM DHEC.
2. NOTIFY CITY OF SUMTER'S STORMWATER MANAGEMENT OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
3. PRECONSTRUCTION MEETING (ON-SITE). A REPRESENTATIVE FROM THE CITY OF SUMTER'S STORMWATER MANAGEMENT OFFICE MUST BE PRESENT AT THE ON-SITE PRE-CONSTRUCTION MEETING.
4. INSTALLATION OF CONSTRUCTION ENTRANCES.
5. CLEARING AND GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
6. INSTALLATION OF PERIMETER CONTROLS SUCH AS SILT FENCING.
7. CLEARING AND GRUBBING ONLY IN AREAS OF BASINS/TRAPS/PONDS.
8. INSTALLATION OF BASINS/TRAPS/PONDS AND INSTALLATION OF DIVERSIONS TO THOSE STRUCTURES. OUTLET STRUCTURES MUST BE COMPLETELY INSTALLED AS SHOWN ON THE DETAILS BEFORE PROCEEDING TO NEXT STEP. AREAS DRAINING TO THESE STRUCTURES CANNOT BE DISTURBED UNTIL THE STRUCTURES AND DIVERSIONS TO THE STRUCTURE ARE COMPLETELY INSTALLED.
9. CLEARING AND GRUBBING OF SITE OR DEMOLITION.
10. ROUGH GRADING.
11. INSTALLATION OF STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED.
12. FINE GRADING, PAVING, ETC.
13. PERMANENT/FINAL STABILIZATION.
14. INSTALLATION OF POST PAVING INLET PROTECTION.
15. CLEAN-OUT OF DETENTION BASINS THAT WERE USED AS SEDIMENT CONTROL STRUCTURES AND RE-GRADING OF DETENTION POND BOTTOMS; IF NECESSARY, MODIFICATION OF SEDIMENT BASIN RISER TO CONVERT TO DETENTION BASIN OUTLET STRUCTURE.
16. REMOVAL OF TEMPORARY SEDIMENT AND 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 OF TEMPORARY STRUCTURES.)
17. PERFORM AS-BUILT SURVEYS OF ALL DETENTION STRUCTURES AND SUBMIT TO SCDHEC OR MS4 FOR ACCEPTANCE.
18. SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AS APPROPRIATE.
•NOTE: IF NPDES COVERAGE IS BEING ISSUED AFTER LAND-DISTURBING ACTIVITIES HAVE ALREADY STARTED (E.G., IN RESPONSE TO A NOTICE TO COMPLY, NOTICE OF VIOLATION, OR ENFORCEMENT ACTION), THEN THE CONSTRUCTION SEQUENCE MUST SPECIFICALLY INDICATE THE ITEMS THAT HAVE ALREADY OCCURRED AND THE ITEMS THAT WILL BE OCCURRING AFTER NPDES COVERAGE IS ISSUED.
•NOTE: IF FLOWS FROM OFFSITE AREAS WILL BE DIVERTED AROUND THE SITE AND THE ON-SITE STRUCTURES ARE NOT DESIGNED TO HANDLE FLOWS FROM THE OFFSITE AREAS, THEN THE DIVERSION/PIPING FOR THE OFFSITE FLOWS MUST BE INSTALLED BEFORE LAND-DISTURBING ACTIVITIES BEGIN ON THE SITE; INCLUDE THIS IN THE SEQUENCE. SEDIMENT AND EROSION CONTROL MEASURES FOR THE DISTURBED AREAS FOR THE DIVERSION/PIPING MUST BE INSTALLED BEFORE THOSE AREAS ARE DISTURBED AND SHOULD BE SHOWN ON THE PLANS.
•NOTE: IF AN EXISTING DETENTION/SEDIMENT BASIN IS BEING MODIFIED TO HANDLE THE FLOWS FROM THE PROPOSED DEVELOPMENT, THEN IT MUST BE MODIFIED BEFORE LAND-DISTURBING ACTIVITIES BEGIN ON THE SITE. THIS SHOULD BE INCLUDED IN THE SEQUENCE.
•NOTE: INCLUDE INDIVIDUAL LOT DEVELOPMENT/CONSTRUCTION IN THE SEQUENCE IF THIS SITE WILL NOT BE MASS-GRADED.
•NOTE: INSTALLATION OF SOME PERMANENT WATER QUALITY DEVICES SHOULD OCCUR AFTER THE SITE IS STABILIZE; INCLUDE THIS IN THE SEQUENCE. CLEANOUT OF OTHER WATER QUALITY DEVICES THAT WERE USED.
•NOTE: MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.

City of SUMTER Notes:

- 1. SOIL SHOULD BE TESTED TO DETERMINE THE PROPER APPLICATION OF NUTRIENTS/PH AMENDMENTS REQUIRED FOR ESTABLISHMENT OF VEGETATIVE COVER. SOIL SAMPLES CAN BE PROVIDED TO THE LOCAL CLEMSON EXTENSION AGENT FOR THEIR EVALUATION OF SITE NEEDS. THIS IS CRITICAL FOR POND AREAS AND FILL SLOPES. THE RESPONSIBLE STORMWATER INSPECTOR SHALL MAKE COMMENTS RELATIVE TO SOIL PREPARATION, PROPER SEED MIX, AND THE CORRECT MATTING/MULCH APPLICATION IN WEEKLY INSPECTION REPORTS WHEN PLANTING IS IN PROGRESS.
2. IF DUE TO INLET CONTROLS, STORMWATER BY-PASSES DROP INLETS AND EXITS SITE UNFILTERED, ADDITIONAL CONTROLS SHALL BE INSTALLED AS REQUIRED.
3. CONDUCT A PRE-JOB MEETING WITH THE OWNER, RESPONSIBLE CONTRACTOR, RESPONSIBLE ENGINEER, SITE STORMWATER INSPECTOR, AND THE STORMWATER MANAGER PRIOR TO THE START OF ANY LAND DISTURBING AND/OR DEMOLITION ACTIVITIES ASSOCIATED WITH THE PROJECT SHALL BE CONDUCTED. THE STORMWATER MANAGER MAY ELECT TO REQUIRE ADDITIONAL SITE MEETINGS FOR COMPLEX OR MULTI-PHASED PROJECTS
4. WEEKLY REPORT MUST BE KEPT ON SITE. REPORTS TO BE PERFORMED BY A SCDHEC CEPSCI CERTIFIED INSPECTOR. THE REPORT MUST INCLUDE AT A MINIMUM:
A. A SUMMARY OF THE INSPECTIONS CONDUCTED DURING THE MONTH,
B. A LISTING OF DEFICIENCIES AND THE DATE NOTED,
C. CONCERNING DEFICIENCIES, LIST THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE PARTY(S) RESPONSIBLE FOR ADDRESSING THE DEFICIENCIES,
D. WHETHER THE DEFICIENCY WAS LISTED IN A PREVIOUS REPORT,
E. CORRECTIVE ACTIONS TAKEN AND THE DATE THE ACTIONS WERE COMPLETED,
F. WHETHER THE SWPPP WAS UPDATED TO DEAL WITH THE NOTED DEFICIENCIES
G. A COPY OF EACH INSPECTION CONDUCTED. IN ADDITION, THE REPORT MUST INCLUDE ALL CO-PERMITTEE AGREEMENTS AND CONTRACTOR CERTIFICATIONS STATEMENTS.

Pollution Prevention + Best Management Practices:

- 1. WASTE DISPOSAL. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF SOUTH CAROLINA, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
2. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED.
3. STATE AND/OR LOCAL WASTE DISPOSAL AND SANITARY SEWER REGULATIONS SHALL BE FOLLOWED.
4. PROPER APPLICATION RATES AND METHODS FOR FERTILIZERS ARE TO BE USED AT THE CONSTRUCTION SITE TO INSURE PROPER NUTRIENT MANAGEMENT CONTROL.
5. USE OF PESTICIDES SHALL BE IN ACCORDANCE WITH STATE/FEDERAL/LOCAL REGULATIONS.
6. REQUIREMENTS FOR CONTROLLING AND DISPOSAL OF CHEMICALS, HAZARDOUS SUBSTANCES AND OIL SHALL MEET LOCAL/STATE/FEDERAL REQUIREMENTS.
7. CONTRACTOR TO USE PROPER TECHNIQUES FOR DEWATERING AND FLUSHING OF LINES WITH CONTROLS TO ASSURE THAT WATER QUALITY IS NOT IMPACTED.
8. THE CONSTRUCTION SITE WITH ASSOCIATED LAYDOWN AND FABRICATION AREAS SHOULD BE CONSIDERED UNDER THE SCOPE OF THE STORMWATER MANAGEMENT PLAN. THE LOCATION OF DROP INLETS, CONCENTRATED FLOW AREAS, AND WETLANDS/WATERS OF THE STATE DOWNSTREAM OF THESE AREAS SHALL BE IDENTIFIED PRIOR TO WORK.
9. CONCRETE TRUCK WASH OUT AREAS ARE TO BE DESIGNATED AND PROVISIONS TAKEN TO PREVENT IMPACT TO WATERS OF THE STATE. WASTE SHALL BE DISPOSED OF PER STATE/FEDERAL/LOCAL REGULATIONS.
10. POLLUTANTS WITH POTENTIAL TO BE EXPOSED TO STORMWATER IN THE WORK AREA, LAYDOWN AREAS OR FABRICATION AREA ARE REQUIRED TO BE PROTECTED USING BEST MANAGEMENT PRACTICES. THIS WOULD INCLUDE APPROPRIATE CONTAINMENT DIKES, USE OF CLAMSHELL TYPE CONTAINERS, STORAGE OF MATERIALS IN SHEDS, MINIMIZING POLLUTANTS ON SITE, ETC. PROPER SPILL CONTAINMENT AND CLEANUP SHALL BE ADDRESSED PRIOR TO WORK AND TRAINING SHALL BE DOCUMENTED. THE RESPONSIBILITIES FOR SPILL CLEANUP AND REPORTING SHALL BE DEFINED. CONTINGENCY PLANS AS APPLICABLE SHALL BE IMPLEMENTED AND BE POSTED APPROPRIATELY. SPILL KITS RELATIVE TO POLLUTANTS EXPECTED ON SITE SHALL BE AVAILABLE. SPILL CONTACTS (AGENCY NAME/PHONE NUMBER) RELATIVE TO THE POTENTIAL POLLUTANT USED ON SITE SHALL BE LISTED IN THE PLAN.
11. WHERE POSSIBLE, LAYOUT OF SITE SHALL UTILIZE BEST MANAGEMENT PRACTICES TO LOCATE ACTIVITIES WITH SIGNIFICANT POTENTIAL IN PLACES LESS PRONE TO IMPACT TO SENSITIVE AREAS DOWNSTREAM OF THE CONSTRUCTION SITE. THIS WOULD INCLUDE AVOIDING STORING POTENTIAL POLLUTANTS NEAR DROP INLETS, OUTFALLS, OR AREAS PRONE TO CONCENTRATED FLOW. ACTIVITIES HAVING A HIGH POTENTIAL OF POLLUTANT EXPOSURE SHOULD BE PERFORMED USING BEST MANAGEMENT PRACTICES (BMP) SUCH AS USING TEMPORARY SHEDS OR COVERINGS, LOCATING WORK SUCH THAT AREA DOWNSTREAM OF ACTIVITY IS WELL VEGETATED TO ALLOW FOR VEGETATIVE FILTERING OR OTHER REASONABLE MEASURES BMPs. WHERE FEASIBLE CONSIDER PERFORMING THESE OPERATIONS AT OFFSITE ESTABLISHED FABRICATION AREAS.



General Notes:

- 1. THIS DRAWING IS BASED ON A SURVEY PREPARED BY LINDLER SURVEYING CO., INC. - 1990 BOYKIN ROAD, REMBERT, SC 29128 - (803)499-7711.
2. THE CONTRACTOR SHALL PROVIDE HIS OWN LINE AND GRADE.
3. THE CONTRACTOR SHALL COORDINATE BI-MONTHLY MEETINGS BETWEEN THE CONTRACTOR AND MERCHANTS. THE CONTRACTOR SHALL BE PREPARED TO DISCUSS PROGRESS AND SCHEDULE AT THESE MEETINGS.
4. THE CONTRACTOR SHALL SCHEDULE THE WORK OF THE PARK PROJECT TO FACILITATE ACTIVITY IN THE SURROUNDING AREA. THE PREFERRED SEQUENCE OF WORK IN THIS PROJECT AND CONSTRUCTION PARAMETERS SHALL BE APPROVED BY OWNER.
5. THE CONTRACTOR IS RESPONSIBLE FOR FIELD STAKING ALL CONSTRUCTION ELEMENTS AND REVIEWING THIS LAYOUT WITH THE OWNER PRIOR TO BEGINNING ANY CONSTRUCTION.
6. THE CONTRACTOR IS ADVISED THAT THE LOCATION OF THE WORK SHOWN ON THE DRAWINGS IS SUBJECT TO SLIGHT ADJUSTMENT IN THE FIELD TO AVOID NEW AND EXISTING UTILITIES AND AS FIELD CONDITIONS DICTATE. ALL CHANGES SHALL BE AUTHORIZED BY THE ENGINEER AND OWNER. THERE WILL BE NO ADDITIONAL COMPENSATION FOR MAKING THESE ADJUSTMENTS UNLESS THE ADJUSTMENT CHANGES THE SCOPE OF THE WORK AS STATED IN THE GENERAL CONDITIONS.
7. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ALL DIRECTIONS AT ALL TIMES. ANY TRAFFIC REROUTING SHALL BE SUBMITTED TO THE SCDOT, SUMTER COUNTY, AND THE CITY OF SUMTER FOR APPROVAL PRIOR TO ANY LANE CLOSURES OR REROUTING OF TRAFFIC. IN ADDITION THE CONTRACTOR SHALL NOTIFY THE OWNER, FIRE DEPARTMENT, POLICE DEPARTMENT, AND ANY OTHER EMERGENCY AGENCIES OF ANY CLOSURE AND TRAFFIC ROUTINGS AT LEAST 24 HOURS PRIOR TO ANY CLOSURES.
8. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND SAMPLES FOR ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PRIOR TO ORDERING.
9. WHERE NEW CONSTRUCTION IS TO TAKE PLACE, THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY MATERIAL, I.E. SIGNAGE, LIGHT POLE, ETC., AT HIS OR HER OWN COST.
10. ALL UNDERGROUND CONSTRUCTION SHALL BE COMPLETED AND ACCEPTED PRIOR TO NEW SURFACE CONSTRUCTION.
11. ALL STRUCTURES ADJACENT TO BRICK AND CONCRETE PAVEMENT SHALL HAVE EXPANSION MATERIAL BETWEEN THE STRUCTURE AND THE NEW OR EXISTING PAVEMENT.
12. ELECTRICAL SOURCE AND METERS ARE PROVIDED BY BLACK RIVER ELECTRIC COOP AND CITY OF SUMTER/SUMTER COUNTY.
13. FOR IRRIGATION NOTES, LEGEND AND DETAILS SEE IRRIGATION DRAWINGS.
14. FOR PLANTING NOTES AND SCHEDULE SEE LANDSCAPE PLAN AND DETAILS.
15. ALL WORK SHALL MEET OR EXCEED SCDOT SPECIFICATIONS.
16. CONTRACTOR SHALL BUILD AND INSTALL CONSTRUCTION SIGN STATING THAT THE PROJECT IS PAID FOR BY THE CITY OF SUMTER/SUMTER COUNTY.
17. CONTRACTOR SHALL COORDINATE W/SHAW AB FOR ADJACENT SITEWORK AN CONSTRUCTION SCHEDULE.
18. CONTRACTOR SHALL COORDINATE W/PALMETTO GAS FOR RELOCATION OF ONSITE EX. GAS LINE/SERVICE.

Demolition and Site Preparation

- 1. CONSTRUCTION LIMITS OF PROJECT ARE PROPERTY LINES AND RIGHT-OF-WAY LINES AND THE EXTENT OF WORK SHOWN ON THE PLANS, WHICHEVER IS LARGEST IN SCOPE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO EXISTING BUILDINGS AND STRUCTURES CAUSED BY THE DEMOLITION AND/OR CONSTRUCTION PROCESS. THE DEMOLITION LINE AT THE PROJECT LIMITS SHALL BE A CLEAN, SAW CUT LINE WITHOUT IRREGULARITIES. THE CITY AND/OR ENGINEER SHALL APPROVE THIS LINE PRIOR TO COMMENCEMENT OF DEMOLITION.
2. THE LIMIT OF DEMOLITION IS AS SHOWN ON THE DRAWINGS AND HAS BEEN LOCATED TO PROVIDE SUFFICIENT AREA FOR INSTALLING THE NEW WORK. ANY DEMOLITION THAT OCCURS OUTSIDE OF THESE LIMITS WILL BE AT THE CONTRACTORS EXPENSE UNLESS APPROVAL HAS BEEN GRANTED BY THE OWNER.
3. ALL EXISTING ITEMS DESIGNATED TO BE REMOVED AND SALVAGED, SUCH AS SIGNS, DRAINAGE, GRATES, WHEEL STOPS, ETC., SHALL BE DELIVERED TO THE CITY OF SUMTER'S DESIGNATED STORAGE YARD FACILITY, AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATING SERVICE AT 1-800-922-0983 AND THE CITY OF SUMTER AT 803-436-2558 BEFORE EXCAVATING AS REQUIRED BY THE SUPPLEMENTAL CONDITIONS AND SOUTH CAROLINA LAW.
5. DISPOSAL OF MATERIALS OFF-SITE AND HAULING OF FILL MATERIAL THAT IS REQUIRED FOR CONSTRUCTION SHALL BE FULL RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR IN LUMP SUM ITEM NO. 4.
6. ANY AREAS DISTURBED BY CONSTRUCTION NOT COVERED BY NEW WORK SHALL BE PLACED IN PERMANENT GRASS SOD AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL COMPLETELY DEMOLISH, REMOVE, AND DISPOSE OF PAVEMENT, CURB AND SIDEWALK AS NECESSARY TO INSTALL THE NEW WORK. THE LIMIT SHOWN ON THE DEMOLITION INDICATES THE SCOPE TO BE PAID BY UNIT PRICE IN THE CONTRACT. DEMOLITION AND REPLACEMENT BEYOND THIS LIMIT SHALL BE AT THE CONTRACTORS EXPENSE UNLESS SPECIFICALLY APPROVED BY THE OWNER OR ENGINEER.
8. PAYMENT FOR DEMOLITION IS FOR REMOVAL OF ASPHALTIC, CONCRETE OR OTHER HARD SURFACES. THE CONTRACTOR WILL NOT BE PAID FOR GRASS OR EARTH AREAS TO BE GRADED AND/OR REPLACED.

Stormwater Sewer Lines, Structures & Electric Utilities

- 1. EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE DRAWINGS BASED ON THE BEST AVAILABLE INFORMATION PROVIDED BY THE SURVEYOR. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES PRIOR TO ANY EXCAVATION TO VERIFY ACTUAL FIELD LOCATION, PROTECTION AND/OR RELOCATION OF EXISTING UTILITY LINES IN CONFLICT OR ADJACENT TO THE PROPOSED WORK.
2. CONTRACTOR TO REINSTALL POLES AND FIXTURES ACCORDING TO MANUFACTURER'S SPECIFICATIONS. CONTRACTOR RESPONSIBLE FOR ALL ELECTRIC WORK AND CONDUIT NECESSARY TO PROVIDE POWER TO LIGHTING AND ELECTRICAL SHOWN ON PLANS. ALL COORDINATION WITH DUKE POWER IS THE CONTRACTOR'S RESPONSIBILITY

Sidewalk, Paving and Grading

- 1. THE NEW SIDEWALKS, ROADS, LANDSCAPED ISLANDS AND CROSSWALKS SHALL BE GRADED IN ACCORDANCE WITH THE PROPOSED ELEVATIONS SHOWN IN THE GRADING AND DRAINAGE PLANS. IN CASES WHERE THE GRADES ARE NOT SHOWN, THE PROPOSED GRADE WILL BE INTERPOLATED BETWEEN SPOT ELEVATIONS. GENERALLY, THE FINISHED SURFACES ARE GRADED FOR PROPER CONVEYANCE OF STORMWATER RUNOFF TO NEW AND EXISTING DRAINAGE INLETS.
2. THE CONTRACTOR SHALL ADJUST, AS NECESSARY, THE EXISTING MANHOLE COVERS, DRAINAGE GRATES, VENT GRATES, VALVE COVERS, ETC. TO MATCH GRADE OF NEW ASPHALT PAVEMENT OR CONCRETE SIDEWALK SURFACES AT NO ADDITIONAL COST TO THE OWNER. ALL WATER METER ADJUSTMENTS SHALL BE PERFORMED BY THE CITY OF SUMTER AND COORDINATED WITH THE CONTRACTOR. METER BOXES TO BE TRAFFIC RATED.
3. SIDEWALK SHALL HAVE A MINIMUM ONE-PERCENT (1%) CROSS SLOPE TO ASSURE POSITIVE DRAINAGE TOWARDS THE ROAD. IF POSITIVE DRAINAGE IS NOT ACHIEVED BASED ON ELEVATIONS SHOWN, INFORM THE ENGINEER IMMEDIATELY. MAXIMUM CROSS SLOPE SHALL BE TWO PERCENT (2%) UNLESS WHERE SPECIFICALLY SHOWN.
4. THE CONTRACTOR SHALL CONSTRUCT A SAMPLE PANEL OF THE SCORED CONCRETE, BRICK PAVING, AND ROWLOCK. THESE PANELS SHALL BE APPROVED BEFORE ANY SIDEWALK OR BRICK WORK IS PERFORMED AND WILL BE USED AS A BASIS FOR THE QUALITY WORKMANSHIP OF CONCRETE FINISH AND BRICK WORK FOR THE REMAINDER OF THE PROJECT. CONTRACTOR MAY USE A PORTION OF NEW WORK AS EXAMPLE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION IN ACCORDANCE WITH THE SPECIFICATIONS. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK.
6. THE CONTRACTOR SHALL VERIFY POSITIVE DRAINAGE IS ACHIEVED FROM ALL AREAS TO NEW AND/OR EXISTING STORM DRAIN INLETS.
7. ALL DRAINAGE STRUCTURES WITHIN SCDOT RIGHT OF WAYS SHALL BE SCDOT STANDARD.

Layout Notes

- 1. ALL DIMENSIONS ARE TAKEN FROM FACE OF CURB OR WALL UNLESS OTHERWISE NOTED.
2. LAYOUT PLANS AND THE DETAILS SHEETS SHOW THE LAYOUT FOR THE WORK TO BE DONE. IF IT IS DISCOVERED THAT THERE IS A DIFFERENCE BETWEEN THE SCALED DIMENSIONS AND LAYOUT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION.
3. THE CONTRACTOR SHALL LAYOUT ENTIRE JOB TO BE REVIEWED BY THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO BEGINNING ANY CONSTRUCTION.

Landscape Notes

- 1. QUANTITIES ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HIS OR HER OWN TAKE-OFFS. IF THERE IS A CONFLICT BETWEEN QUANTITIES AND SPACING, SPACING SHALL PREVAIL.
2. ALL AREAS NOT COVERED BY CONSTRUCTION OR PLANT BED AREAS, SHALL BE PLACED IN TURF. ALL R.O.W. AREAS BETWEEN PLANT BEDS AND EDGE OF PAVEMENT SHALL BE PLACED IN TURF.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSEES FROM THE PROPER AUTHORITIES BEFORE BEGINNING ANY WORK WITHIN IN THE R.O.W. OR OFF-SITE.

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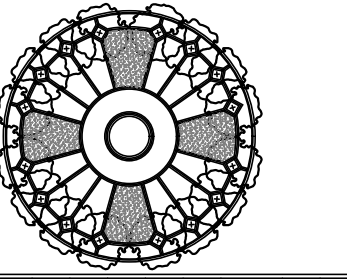
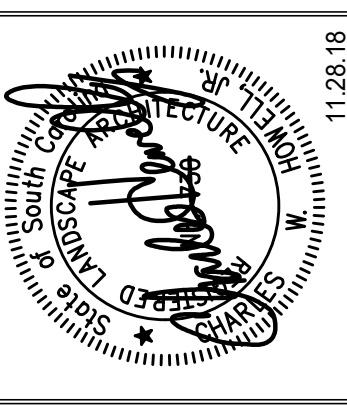
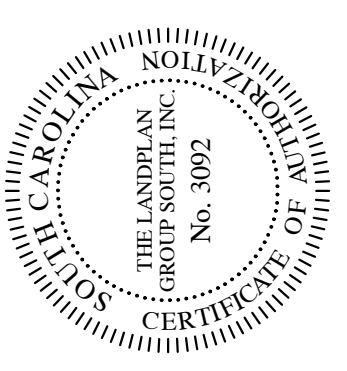


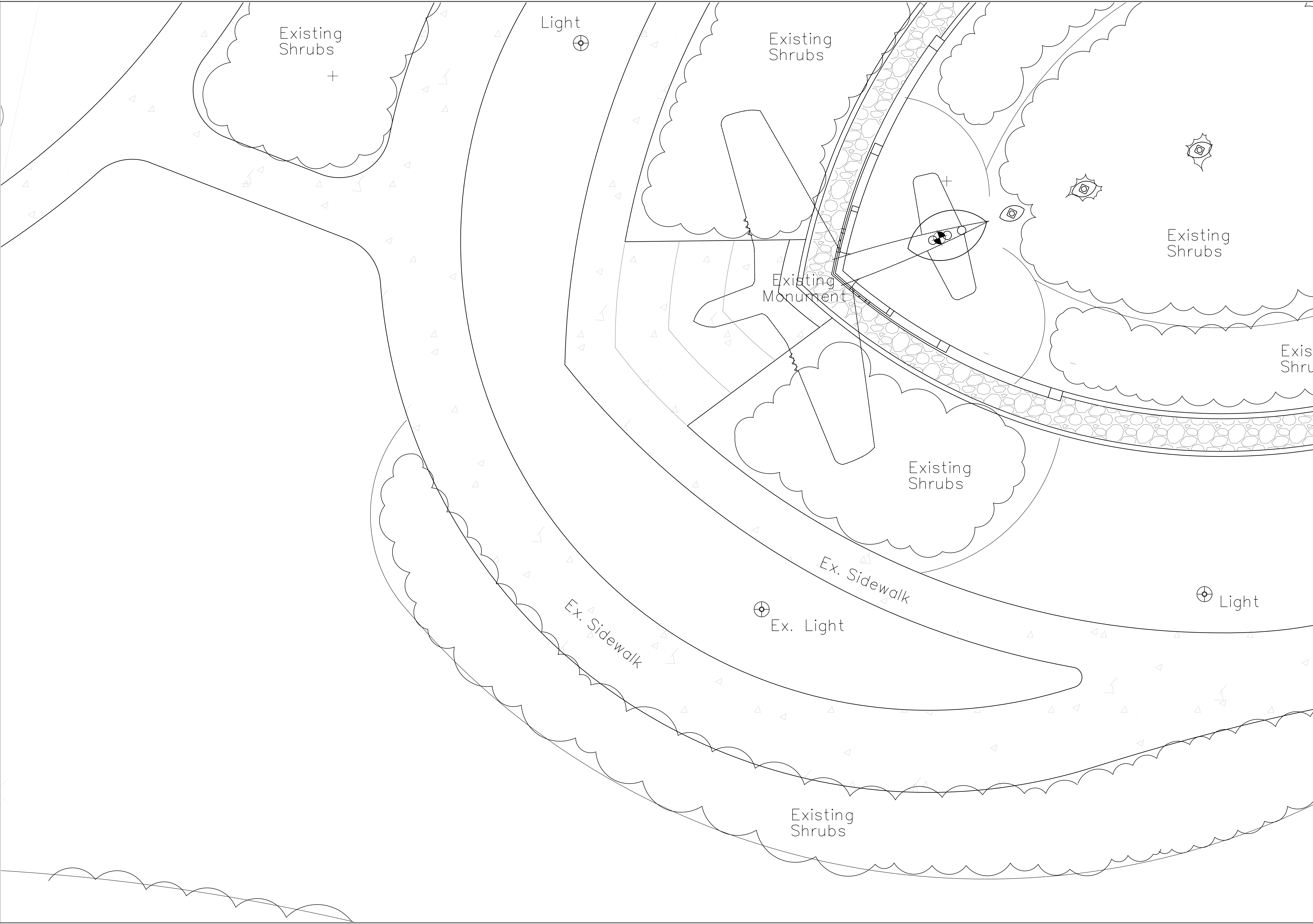
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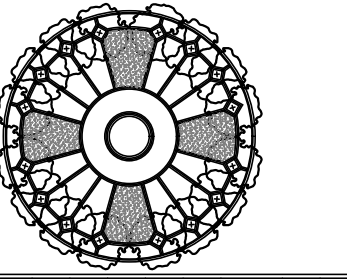
VETERANS PARK PHASE 2
CONSTRUCTION DRAWINGS
CITY OF SUMTER, SOUTH CAROLINA
GENERAL NOTES

JOB #: 754
SCALE: N.T.S.
SHEET: 2 OF 6

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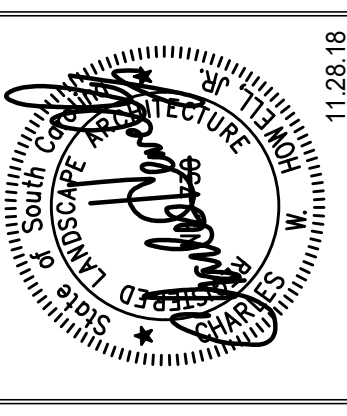
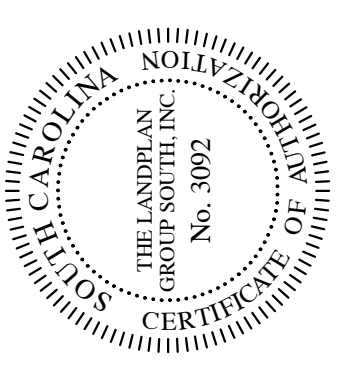


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REVISION	BY	APPD.	MM/DD/YY
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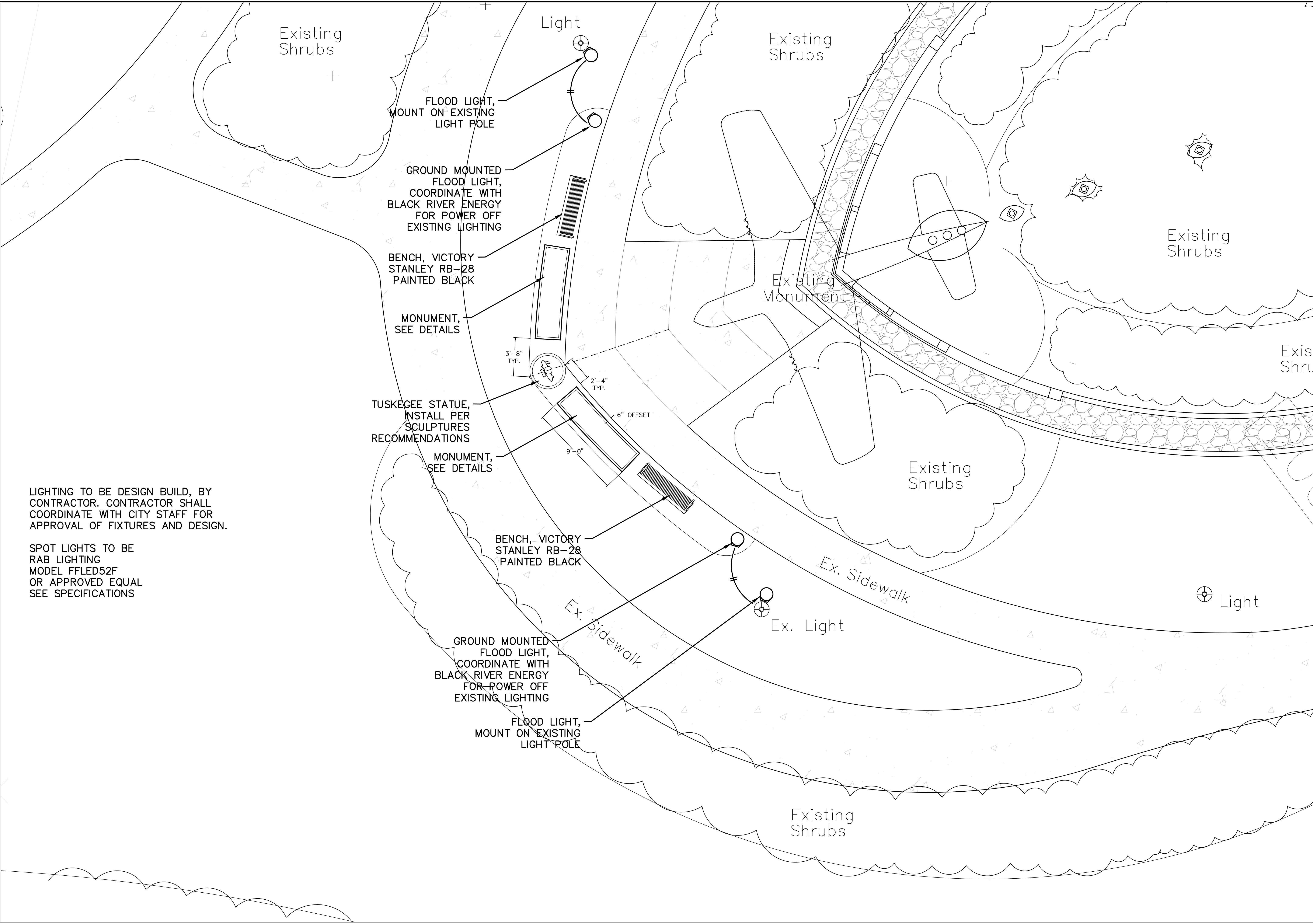
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 03.05.18
 PTL. DWN. CML. CHKD. CML. DCSA. MM/DD/YY



VETERANS PARK PHASE 2
CONSTRUCTION DRAWINGS
 CITY OF SUMTER, SOUTH CAROLINA
EXISTING CONDITIONS

JOB #: 754b
 SCALE: 1"=4'-0"
 SHEET: 3 OF 6

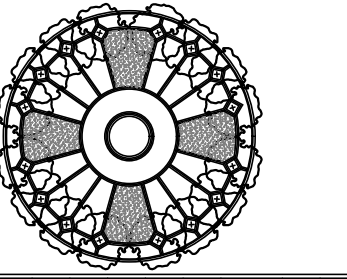
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LIGHTING TO BE DESIGN BUILD, BY CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH CITY STAFF FOR APPROVAL OF FIXTURES AND DESIGN.

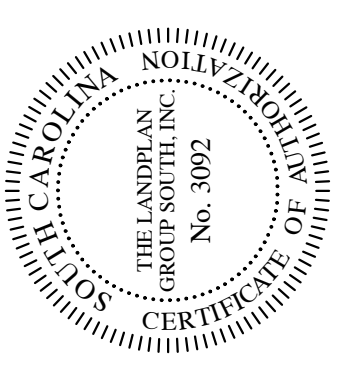
SPOT LIGHTS TO BE RAB LIGHTING MODEL FFLED52F OR APPROVED EQUAL SEE SPECIFICATIONS

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FILE NAME: 754_BASE_030618
 PTL: DWN.
 CWN: CHKD.
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[Signature]
 11.28.18

VETERANS PARK PHASE 2
 CONSTRUCTION DRAWINGS
 CITY OF SUMTER, SOUTH CAROLINA
 LAYOUT PLAN

JOB #: 754b
 SCALE: 1"=4'-0"
 SHEET: 4 OF 6

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EX. PLANTINGS

A
3

B
21

EX. PLANTINGS

EXISTING
GOLDMOUND
SPIREA

EX. PLANTINGS

EXISTING
GOLDMOUND
SPIREA

EX. PLANTINGS

A
2

B
21

A
3

EX. PLANTINGS

NOTE:

CONTRACTOR SHALL REPLACE
DEAD / DYING SOD BEHIND THE
EX. AIRPLANE MONUMENT,
APPROX. 6,000 S.F.

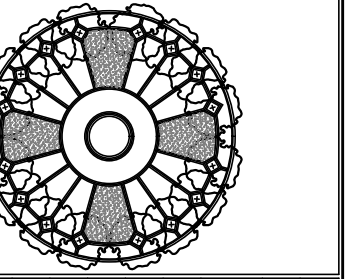
CONTRACTOR SHALL CARRY
EXISTING DRIP IRRIGATION FROM
EXISTING PLANT BEDS TO ALL
PLANT BEDS.

NOTE:

ADD ALTERNATE:

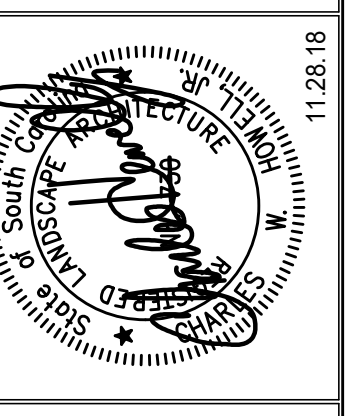
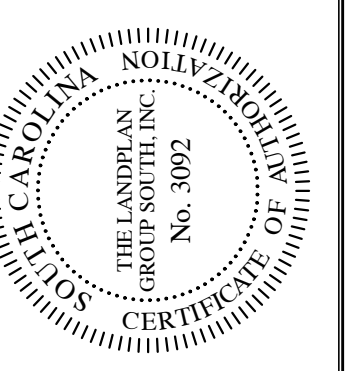
1. REMOVE AND REPLACE EX. LAWN BEHIND AND AROUND MONUMENT, APPROX. 5,000 S.F.
2. REPLACE DEAD GOLDMOUND SPIREA

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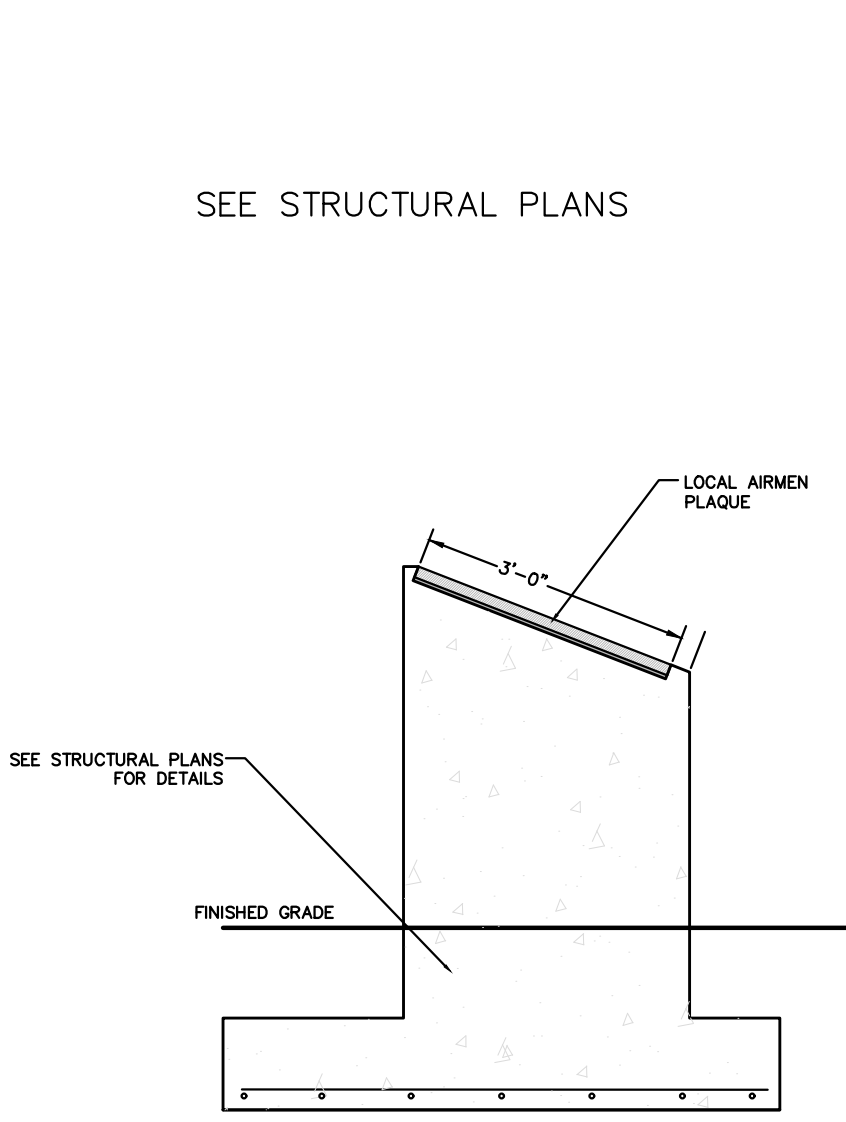
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CWL: _____ CHKD: _____
CWA: _____ DCSA: _____



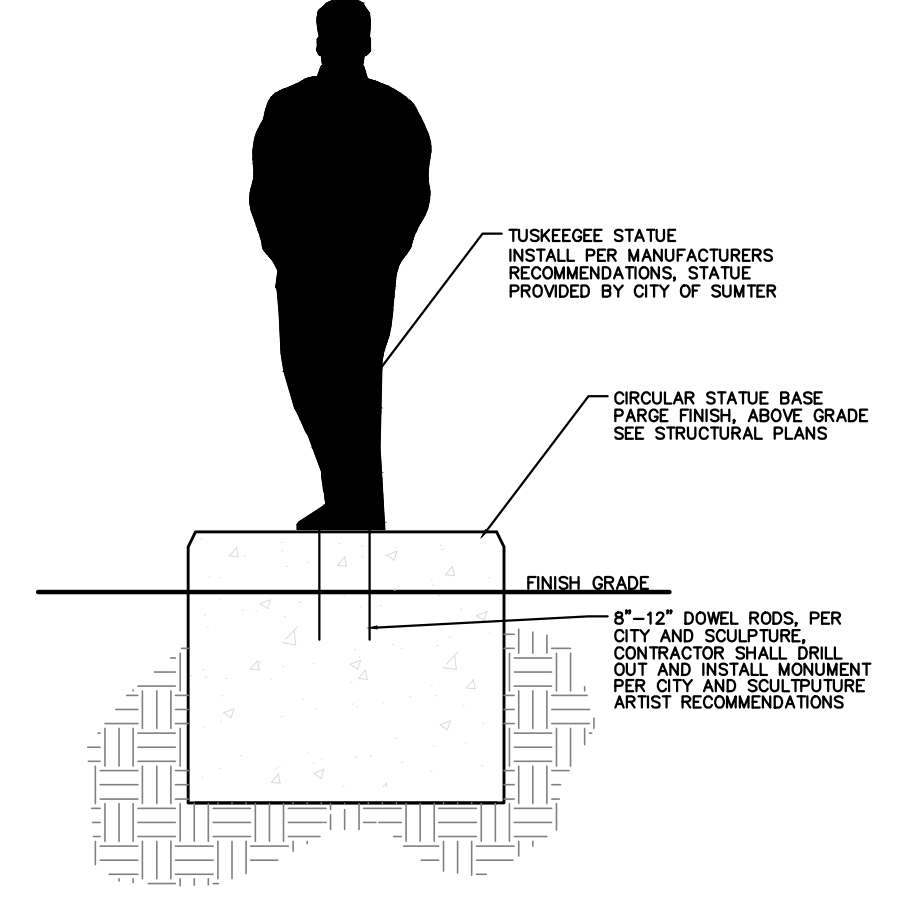
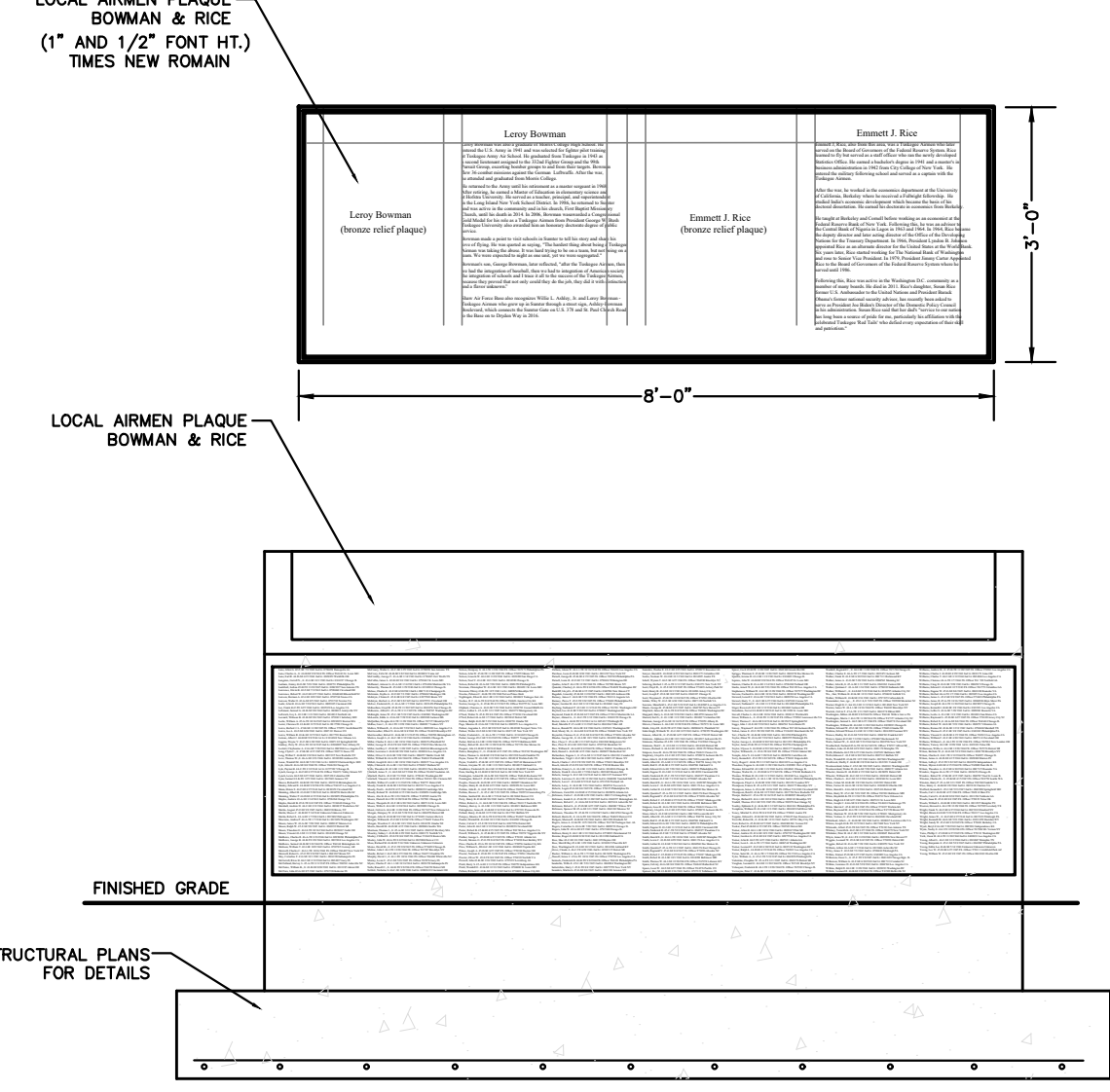
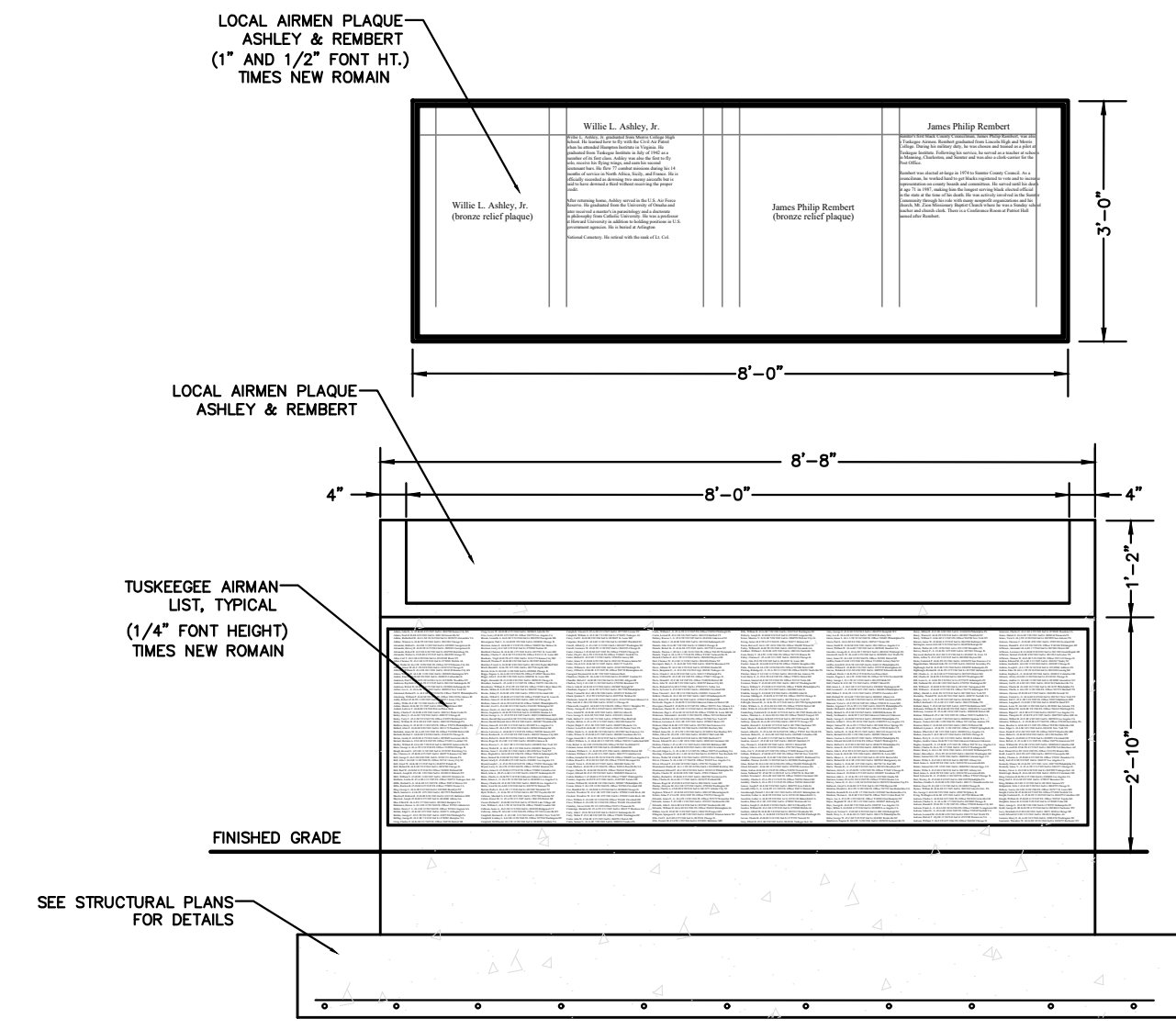
VETERANS PARK PHASE 2
CONSTRUCTION DRAWINGS
CITY OF SUMTER, SOUTH CAROLINA
LANDSCAPE PLAN

JOB #: 754b
SCALE: 1"=4'-0"
SHEET: 4 OF 6

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SEE STRUCTURAL PLANS



- NOTES:**
1. CONCRETE FINISH TO MATCH EXISTING TUSKEGEE WALL MONUMENT ON SITE (COLOR AND FINISH).
 2. CONTRACTOR SHALL COORDINATE WITH CITY STAFF AND LOCAL HISTORIAN FOR PLAQUE INFORMATION

MONUMENT PLAQUE WALLS

NOT TO SCALE

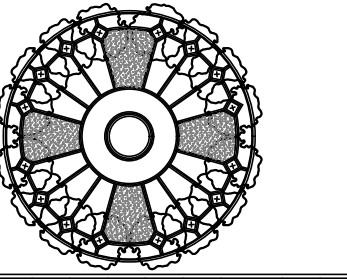
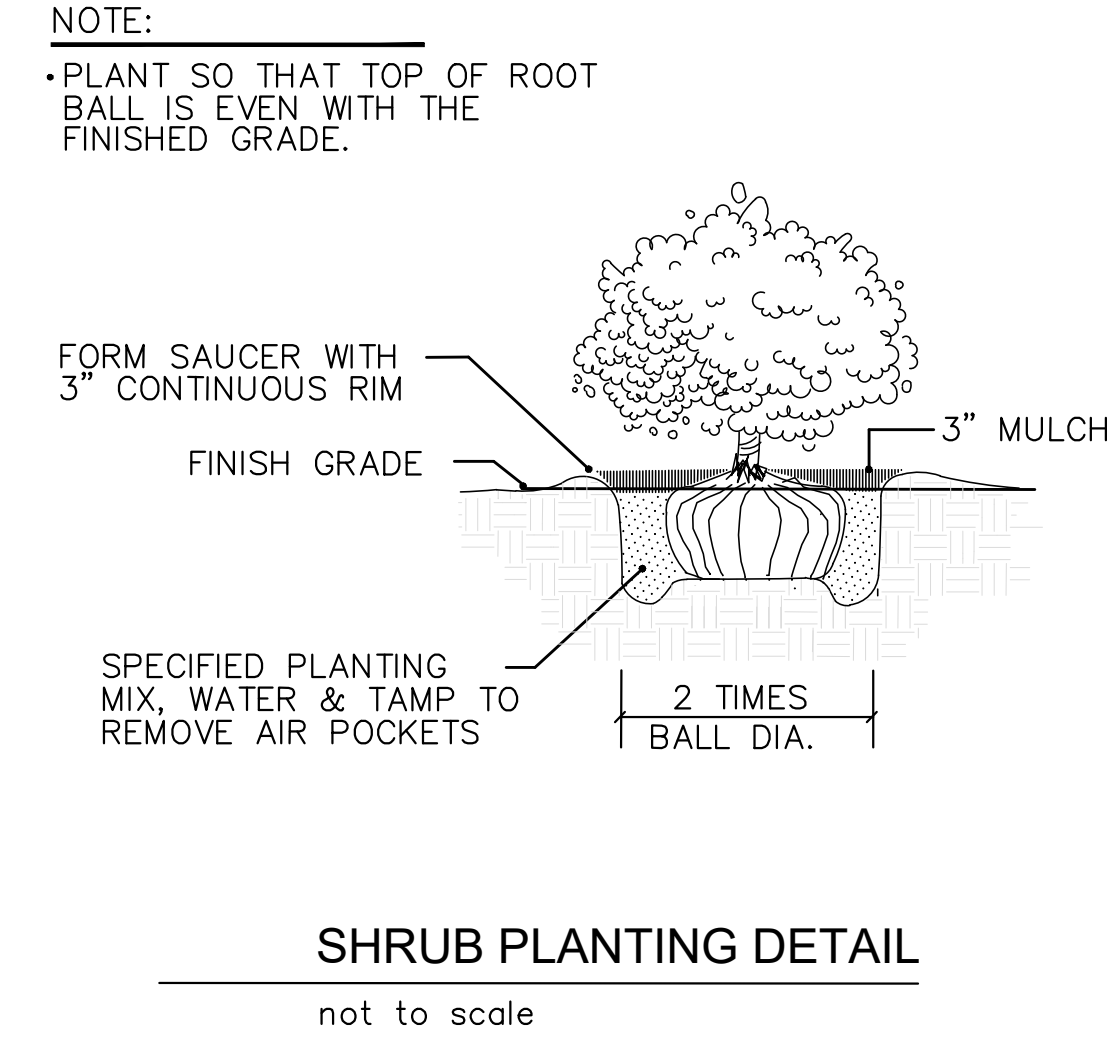
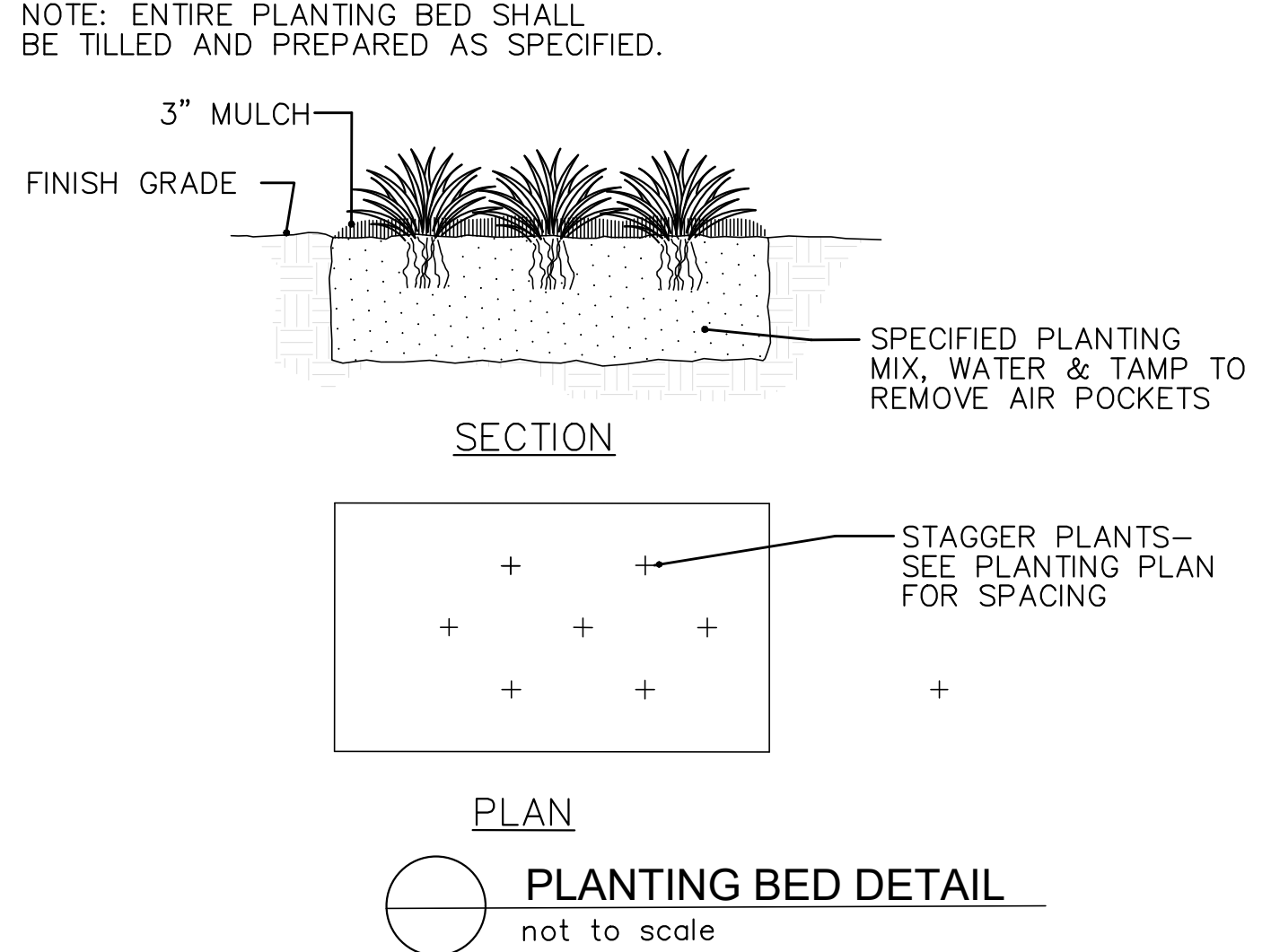
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PLANT SCHEDULE

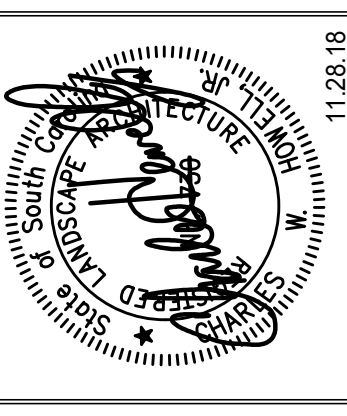
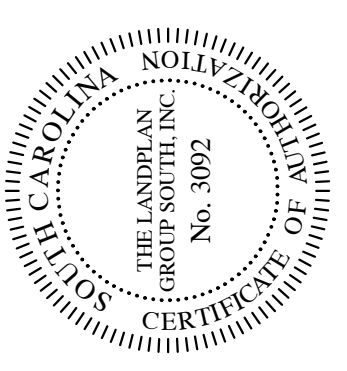
KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	SPACING
A	MUHLENBERGIA CAPILLARIS	WHITE MUHLY GRASS	8	3 GAL.	3' O.C.
B	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LIRIOPE	42	1 GAL.	1' O.C.
	DOUBLE HAMMERED HARDWOOD MULCH	DOUBLE HAMMERED HARDWOOD MULCH			
	BID ALTERNATES				
	BERMUDA SOD	BERMUDA SOD	5,000		
	SPIREA X BUMALDA 'GOLDMOUND'	GOLDMOUND SPIREA	50	3 GAL.	3' O.C.

- GENERAL NOTES:**
- QUANTITIES ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HIS OR HER OWN QUANTITIES. IF THERE IS A CONFLICT BETWEEN QUANTITIES AND SPACING, SPACING SHALL PREVAIL.
 - ALL AREAS NOT COVERED BY CONSTRUCTION OR PLANT BED AREAS, SHALL BE PLACED IN TURF. ALL R.O.W. AREAS BETWEEN PLANT BEDS AND EDGE OF PAVEMENT SHALL BE PLACED IN TURF.
 - THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES FROM THE PROPER AUTHORITIES BEFORE BEGINNING ANY WORK WITHIN THE R.O.W. OR OFF SITE.
 - WEED BARRIER FABRIC: (SHALL BE PLACED IN ALL PLANT BEDS EXCEPT GROUND COVER BEDS) BLACK POLYPROPYLENE SHEET 27 MILS THICK (SEE SPECS).
 - CONTRACTOR TO TREAT NEW PLANT MIX WITH WEED PREVENTER AS RECOMMENDED BY MANUFACTURER(SEE SPECS).



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FILE NAME: 754 - BASE 030618
 PTL: DMN.
 CWN: CHKD.
 DSN: DMN.
 DCSN: DMN.
 MMDDYY: MMDDYY



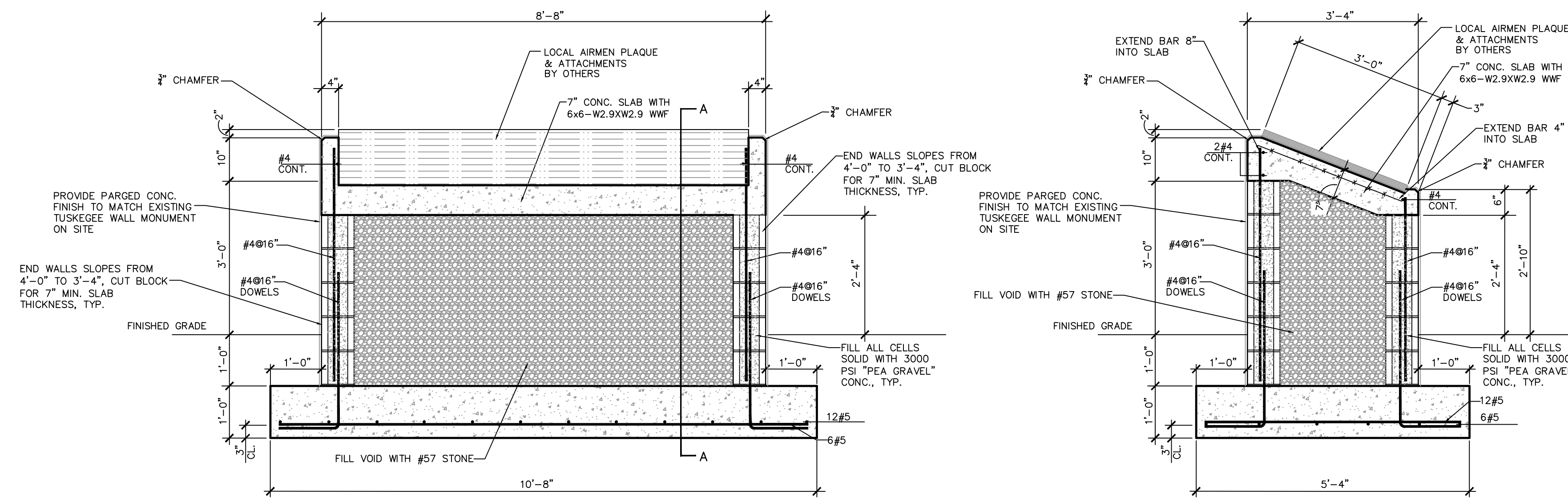
VETERANS PARK
CONSTRUCTION DRAWINGS
 CITY OF SUMTER, SOUTH CAROLINA
CONSTRUCTION DETAILS

GENERAL NOTES:

1. BUILDING CODE - INTERNATIONAL BUILDING CODE IBC 2021
2. LOADS:
 - A. LIVE:
 1. ALL AREAS..... 20 PSF
 - B. DEAD: ACTUAL WEIGHTS OF MATERIALS, EQUIPMENT.
 - C. SEISMIC DESIGN DATA
 - (1) RISK CATEGORY 1
 - (2) SPECTRAL RESPONSE COEFFICIENTS
 - S_s = 0.366
 - S₁ = 0.193
 - (4) SITE CLASS D (assumed)
 - (5) BASIC STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM: BEARING WALL SYSTEM WITH SPECIAL REINFORCED MASONRY SHEAR WALLS
 - D. WIND SPEED - 110 MPH EXPOSURE B
3. CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: NORMAL WEIGHT (150 PCF) 3500 PSI FOR ALL FOUNDATIONS, AND MISCELLANEOUS CONCRETE.
4. ALL REINFORCING BARS TO HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.
5. CONCRETE FORMWORK:
 - A. ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI STANDARD 347 RECOMMENDED PRACTICE FOR CONCRETE FORMWORK.
 - B. RESPONSIBILITY: THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL FORM, SHORES, BRACKETS, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOAD, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - C. TOLERANCE: UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR CONCRETE FORMWORK SHALL CONFORM TO ACI STANDARD 117, STANDARD TOLERANCE FOR CONCRETE CONSTRUCTION AND MATERIALS.
 - D. ALL PERMANENTLY VISIBLE EDGES OF CONCRETE SHALL HAVE A 3/4" CONTINUOUS CHAMFER. THIS INCLUDES ALL SLABS, BEAMS, COLUMNS, AND WALLS.
6. TOP FOOTINGS BELOW GRADE (-1'-4").
7. PROVIDE AND INSTALL ALL PLATES, ANGLES, REINFORCING, ETC., EMBEDDED IN CAST-IN-PLACE CONCRETE.
8. VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
9. SEE LANDSCAPE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
10. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS BEFORE ANY FABRICATION HAS STARTED.
11. PROVIDE AND INSTALL ALL TEMPORARY BRACING AS REQUIRED FOR SAFETY STABILITY OF THE STRUCTURE UNTIL STRUCTURE IS COMPLETE.
12. CONTRACTOR SHALL VISIT SITE TO BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AND SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, FRAMING CONDITIONS, AND CONNECTIONS BEFORE BEGINNING CONSTRUCTION OR ANY FABRICATION.
13. WHERE DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE ON PLANS.
14. ALL ANCHORS AT MASONRY WALLS TO HAVE A MINIMUM EMBEDMENT OF 6".
15. ALL REINFORCING SPLICES SHALL HAVE A MINIMUM LAP OF 48 BAR DIAMETERS UNLESS NOTED OR SPECIFIED OTHERWISE.
16. NOTES FOR REINFORCED MASONRY WALLS:
 - A. ALL MASONRY WALLS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING NOTES AND PLANS. CONCRETE BLOCK SHALL BE HIGH STRENGTH CONCRETE MASONRY UNITS, HOLLOW UNITS IN ACCORDANCE WITH ASTM C-90, AND SHALL HAVE MINIMUM PRISM STRENGTHS OF 7,135 PSI AND SHALL BE TESTED IN ACCORDANCE WITH ASTM C-140.
 - B. MASONRY MORTAR:
 - a. CONCRETE MASONRY MORTAR FROM FOUNDATION TO ROOF SHALL BE TYPE S WITH FULL MORTAR BEDDING FROM FOUNDATION TO ROOF.
 - b. CURB TESTS OF MORTAR SHALL BE IN ACCORDANCE WITH ASTM C-270 AND ASTM C-780. COPIES OF ALL REPORTS SHALL BE SUBMITTED TO THE ARCHITECT & ENGINEER.
 - C. ALL CELLS IN MASONRY SHALL BE COMPLETELY FILLED WITH GROUT (FINE OR COARSE GROUT - ASTM C 476 - 3/8" MAXIMUM AGGREGATE - 3000 PSI MINIMUM), SLUMP TO BE 8" TO 11". "ROD" OR VIBRATE GROUT.
 - D. PROVIDE VERTICAL REINFORCING WHERE SHOWN OR NOTED ON PLANS AND/OR DETAILS.
 - E. PROVIDE DOWELS TO FOOTINGS AT REINFORCED BLOCK CELLS. SAME SIZE AND SPACING AS INDICATED ON DRAWINGS.
 - F. PLACE BAR(S) IN CORNERS AND SPACE AS INDICATED ON PLANS BETWEEN CORNERS.
 - G. REINFORCING BARS SHALL EXTEND FROM FOOTING DOWELS TO TOP OF WALL.
 - H. ACCURATELY POSITION AND SECURE VERTICAL REINFORCING WITH 9 GAGE HARD STEEL GALVANIZED WIRE CENTERING CLIPS OR REBAR POSITIONERS.
 - I. ALL REINFORCING SPLICES SHALL HAVE A MINIMUM LAP OF 48 BAR DIAMETERS UNLESS NOTED OR SPECIFIED OTHERWISE.
 - J. PROVIDE HORIZONTAL LADDER TYPE 2 WIRE WALL REINFORCING AT 16" VERTICAL CENTERS. ALL WIRE SHALL BE KEEP IN MORTAR JOINTS TO PROVIDE CLEAR CELLS FOR REINFORCING AND GROUT. TYPICAL FOR ALL MASONRY WALLS. USE MEDIUM GRADE WITH 8 GAGE SIDE RODS AND 9 GAGE CROSS RODS.
17. DRAWINGS INDICATE GENERAL ARRANGEMENT AND DIMENSIONS AND ARE GENERALLY DRAWN TO SCALE. HOWEVER, SCALE DIMENSIONS SHALL NOT BE USED. OBTAIN DIMENSIONS FROM LANDSCAPE ARCHITECT, WHEN NOT GIVEN IN FIGURES. REFER TO THE LANDSCAPE ARCHITECT AND ENGINEER ANY INCONSISTENCIES FOUND.
18. WHERE CONFLICT EXIST BETWEEN STRUCTURAL AND LANDSCAPE ARCHITECTURAL, USE STRUCTURAL FOR ITEMS RELATING TO STRUCTURAL STRENGTH (VERTICAL REINFORCING IN MASONRY WALLS, FOOTING SIZE, FOOTING ELEVATION, REINFORCING, MEMBER SIZE, ETC.)

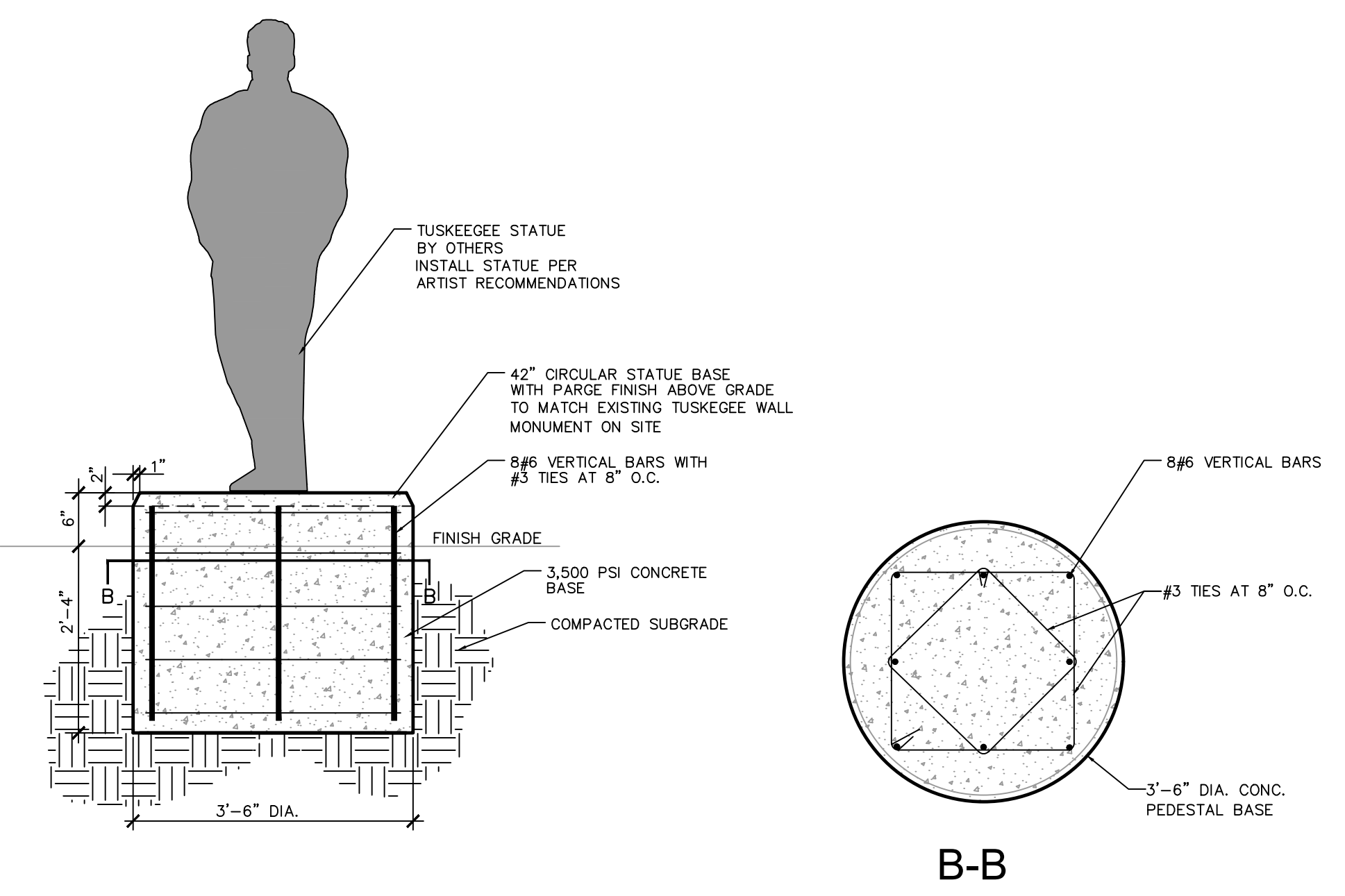
SOIL NOTES:

1. FOOTINGS DESIGNED FOR ASSUMED SOIL BEARING VALUE OF 1500 PSF.
2. BEFORE ANY CONSTRUCTION, THE ENTIRE SITE AREA SHALL BE STRIPPED OF ANY ROOT SYSTEMS, SURFACE VEGETATION, ORGANIC SURFACE SOILS, EXISTING CONCRETE SLABS, FOOTINGS, BURIED FUEL TANKS, UNDERGROUND UTILITIES, AND ANY OTHER UNSUITABLE NEAR SURFACE MATERIALS. ALSO, ALL EXISTING MATERIAL BENEATH THE BUILDING AREAS SHALL BE COMPLETELY REMOVED TO A DEPTH DETERMINED BY THE TESTING LABORATORY NECESSARY TO OBTAIN THE REQUIRED BEARING VALUE. THE UNDERCUTTING SHALL EXTEND AT LEAST FIVE FEET OUTSIDE THE BUILDING AREA. AFTER STRIPPING AND UNDERCUTTING, THE EXPOSED SUBGRADE SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER TO CONFIRM THAT ALL UNSUITABLE MATERIALS HAVE BEEN REMOVED. THE EXPOSED SUBGRADE SHALL THEN BE PROOFROLLED AND DENSIFIED, IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, WITH APPROVED EQUIPMENT. A MINIMUM OF SIX (6) PASSES SHALL BE MADE WITH THREE OF THESE PASSES MADE PERPENDICULAR TO THE INITIAL LINE OF ROLLING. ADDITIONAL PASSES REQUIRED FOR COMPACTION SHALL BE MADE. ANY AREAS FOUND TO "PUMP" OR DEFLECT EXCESSIVELY SHALL BE UNDERCUT TO STABLE MATERIAL. TESTING LABORATORY PERSONNEL SHALL DETERMINE THE NECESSITY OF FURTHER UNDERCUTTING DEPENDING UPON SOIL MOISTURE AT TIME OF GRADING. MOISTURE SHALL BE ADDED OR THE SOIL SHALL BE AERATED AND DRIED TO WITHIN 2% OF OPTIMUM MOISTURE. IF WET CONDITIONS ARE ENCOUNTERED THE SUBGRADE SOILS SHALL BE SUFFICIENTLY AERATED TO PREVENT PUMPING UNDER HEAVY CONSTRUCTION EQUIPMENT. EXTREME CARE SHALL BE USED DURING STRIPPING AND DENSIFICATION OF SOIL ADJACENT TO EXISTING STRUCTURE TO PREVENT DAMAGE TO EXISTING BUILDING.
3. ALL EXISTING FOUNDATIONS, UTILITIES, TANKS, ETC. WITHIN THE PROPOSED BUILDING AREA SHALL BE REMOVED AND BACKFILLED WITH A WELL COMPACTED CRUSHED STONE.
4. EACH FOOTING EXCAVATION SHALL BE THOROUGHLY TAMPED USING A MECHANICAL TAMPER BEFORE PLACING ANY STEEL OR CONCRETE. ALL SOFT, LOOSE, OR OTHERWISE QUESTIONABLE SOILS SHALL BE STABILIZED BY COMPACTING IN PLACE OR BY REMOVING AND REPLACING SUCH UNSUITABLE SOILS. IN AREAS THAT ARE DIFFICULT TO STABILIZE, A COARSE CRUSHED AGGREGATE SHALL BE USED TO STABILIZE THE EXCAVATIONS. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN GOOD SITE DRAINAGE THROUGHOUT CONSTRUCTION.
5. IT IS REQUIRED THAT ALL FOOTINGS BE CONSTRUCTED AS SOON AS POSSIBLE AFTER EXCAVATION TO BEARING SOILS IS COMPLETED. IF THE BEARING SOILS ARE EXPOSED TO SURFACE OR RAIN WATER, THE SOFTENED SOIL SHALL BE THOROUGHLY REMOVED PRIOR TO PLACEMENT OF CONCRETE. IF IT IS ANTICIPATED THAT FOOTING EXCAVATIONS WILL REMAIN EXPOSED FOR MORE THAN 24 HOURS OR IF RAIN IS IMMINENT WHILE BEARING SOILS ARE EXPOSED, A 2 TO 4 INCH THICKNESS OF 2000 PSI MINIMUM STRENGTH CONCRETE MAY BE PLACED OVER BEARING SOILS FOR PROTECTION.



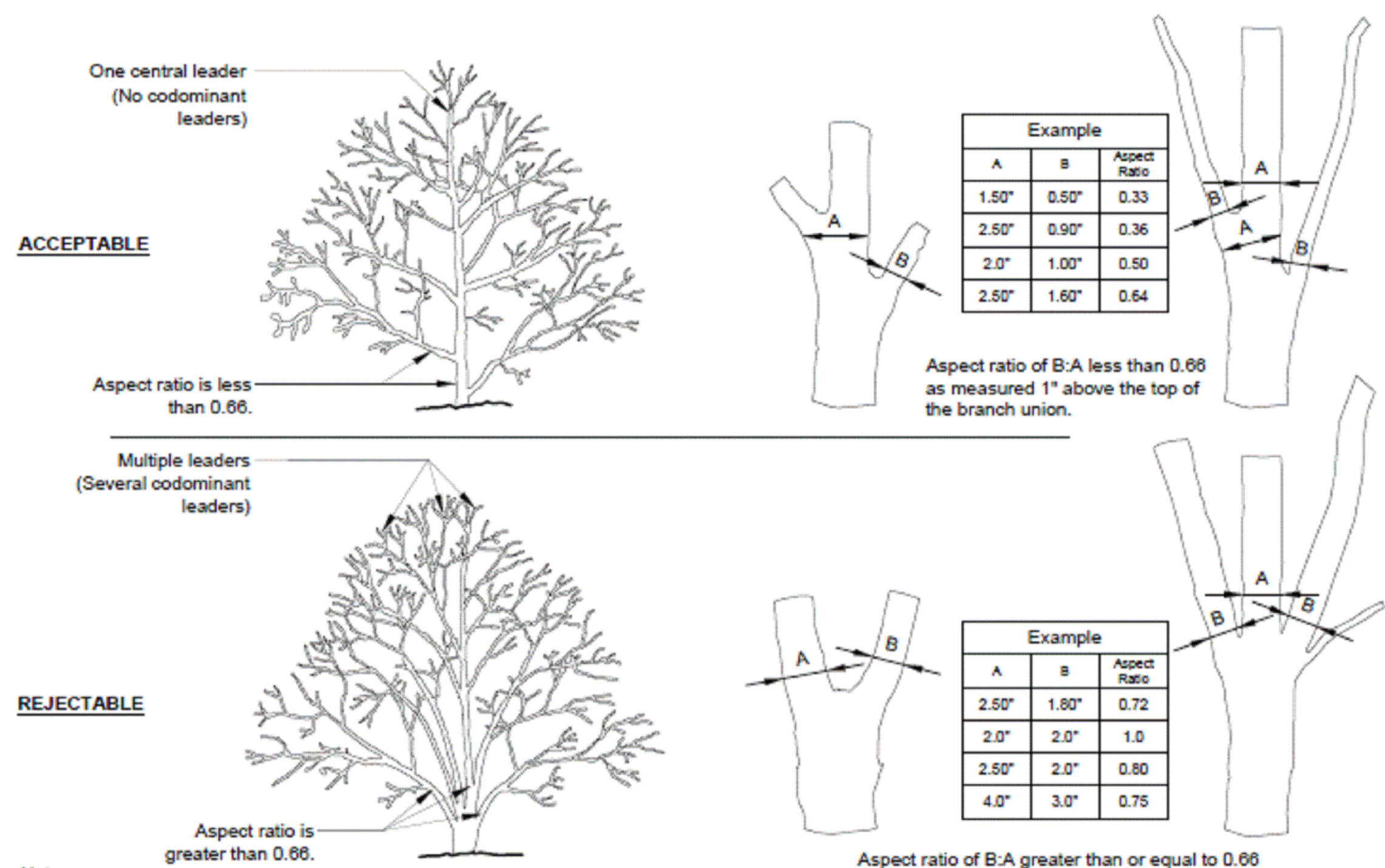
MONUMENT PLAQUE WALL SECTIONS

NOT TO SCALE



TUSKEGEE STATUE BASE

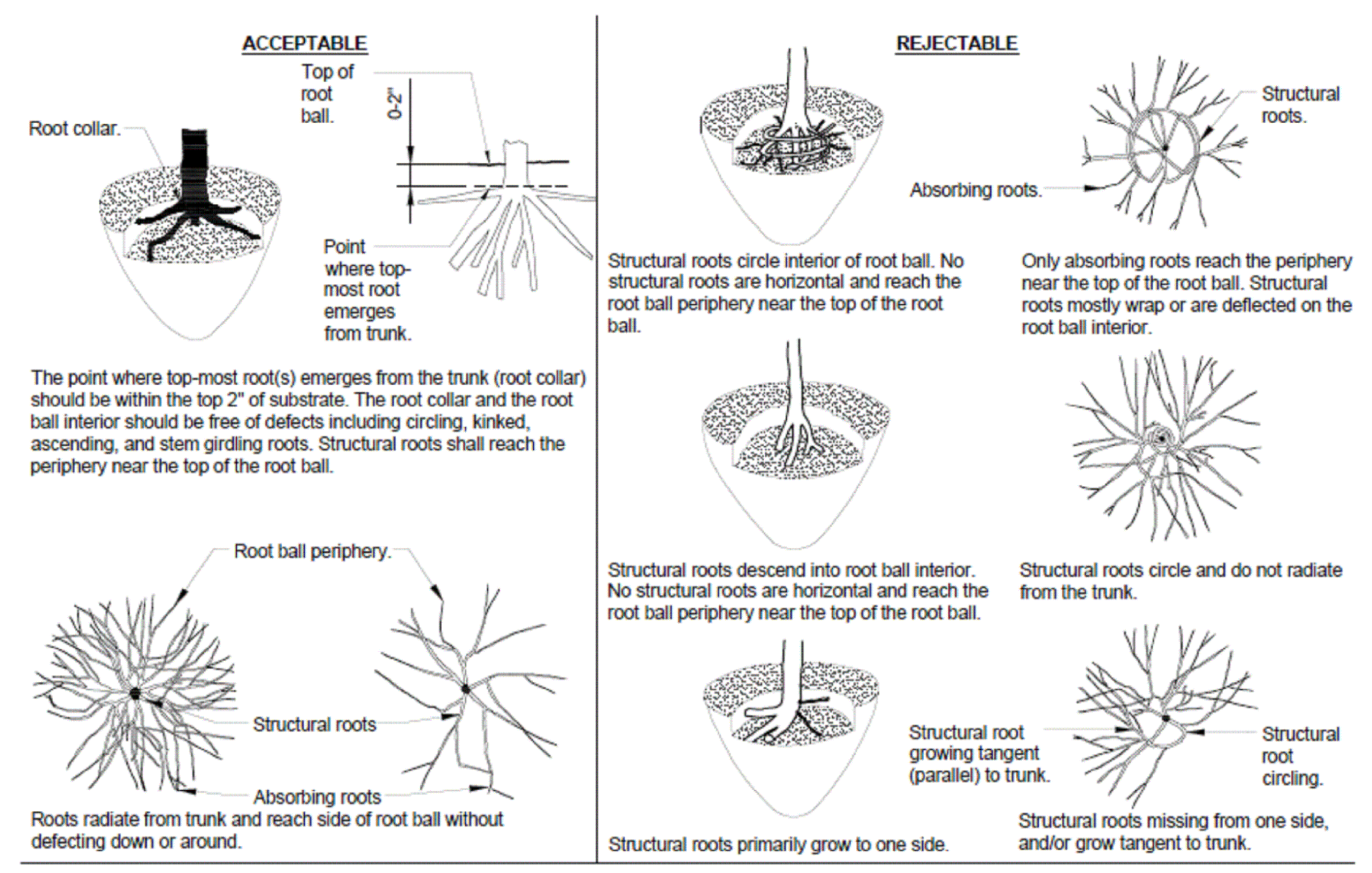
NOT TO SCALE



Notes:
 1- Aspect ratio shall be less than 0.66 on all branch unions. Aspect ratio is the diameter of branch (B) divided by the diameter of the trunk (A) as measured 1" above the top of the branch union.
 2- Any tree not meeting the crown observations detail may be rejected.

P-X CROWN OBSERVATIONS - LOW BRANCHED

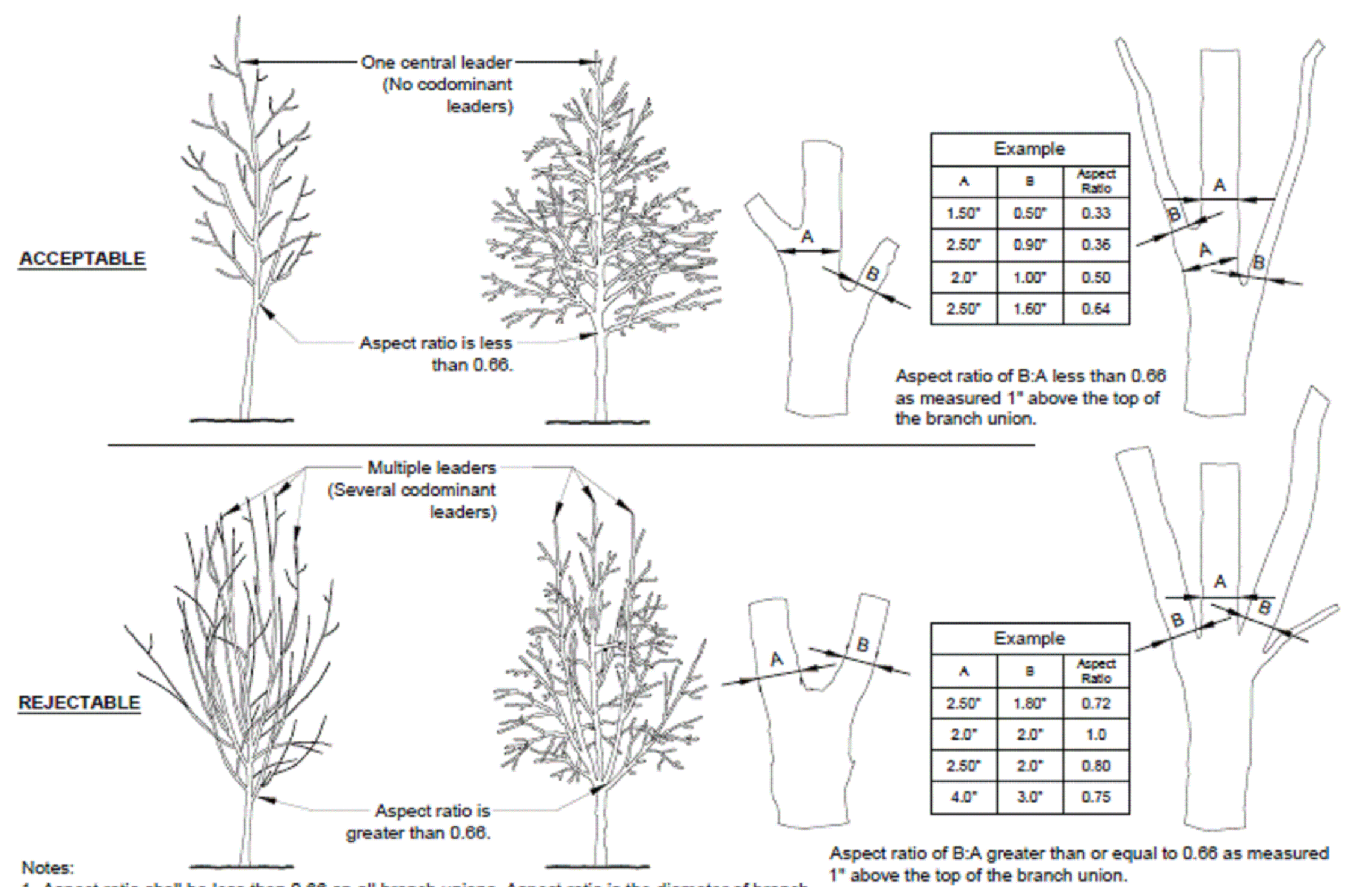
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Notes:
 1- Observations of roots shall occur prior to acceptance. Roots and soil may be removed during the observation process; substrate/soil shall be replaced after the observations have been completed.
 2- See specifications for observation process and requirements.

P-X ROOT OBSERVATIONS DETAIL - BALLED AND BURLAPPED

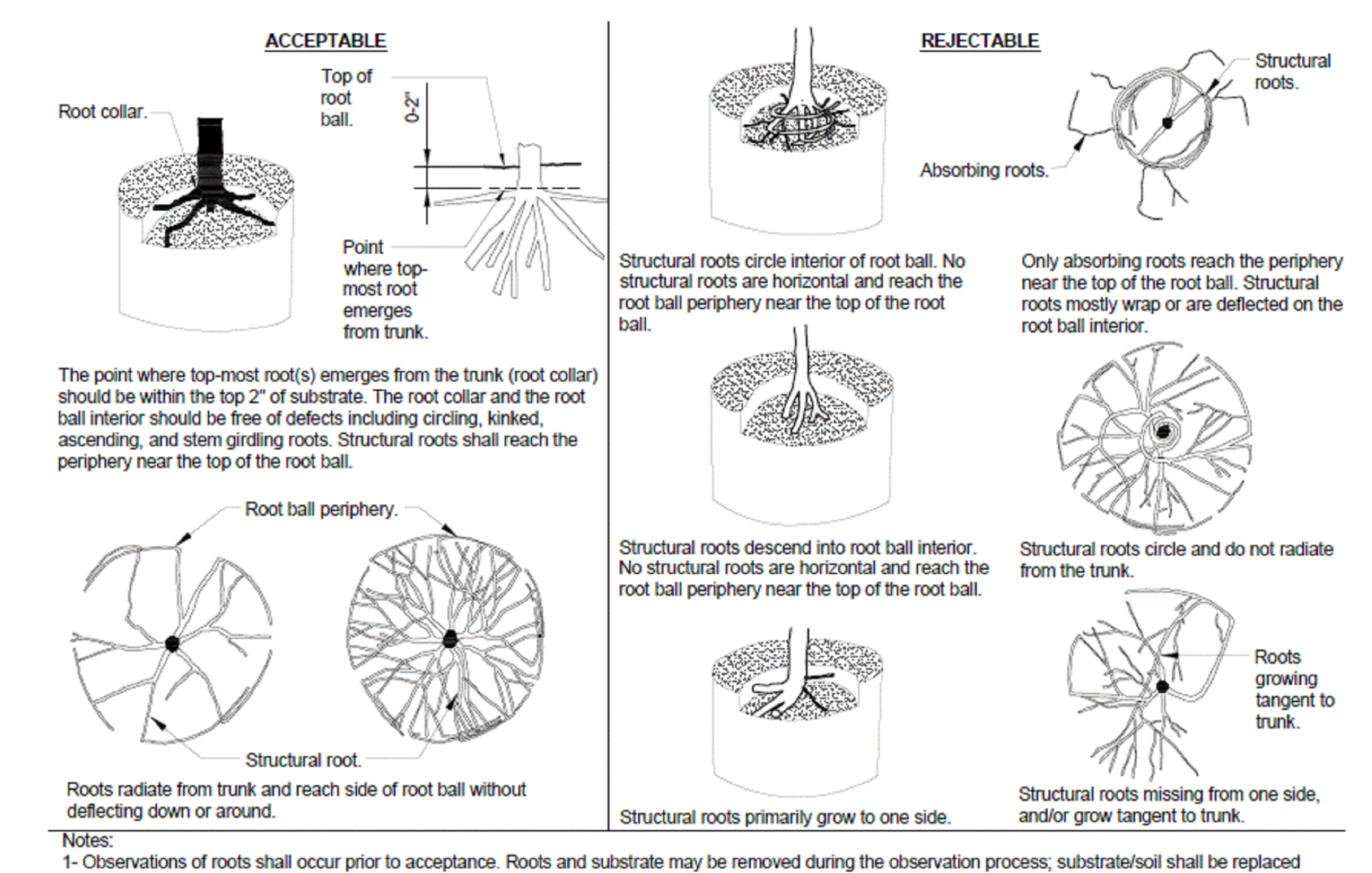
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Notes:
 1- Aspect ratio shall be less than 0.66 on all branch unions. Aspect ratio is the diameter of branch (B) divided by the diameter of the trunk (A) as measured 1" above the top of the branch union.
 2- Any tree not meeting the crown observations detail may be rejected.

P-X CROWN OBSERVATIONS - HIGH BRANCHED

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Notes:
 1- Observations of roots shall occur prior to acceptance. Roots and substrate may be removed during the observation process; substrate/soil shall be replaced after observation has been completed.
 2- Small roots (1/4" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periphery can be removed at the time of planting. (See root ball shaving container detail).
 3- See specifications for observation process and requirements.

P-X ROOT OBSERVATIONS DETAIL - CONTAINER

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Before planting, tree has three codominant stems. The two that compete with the one in the center should be pruned to suppress their growth.

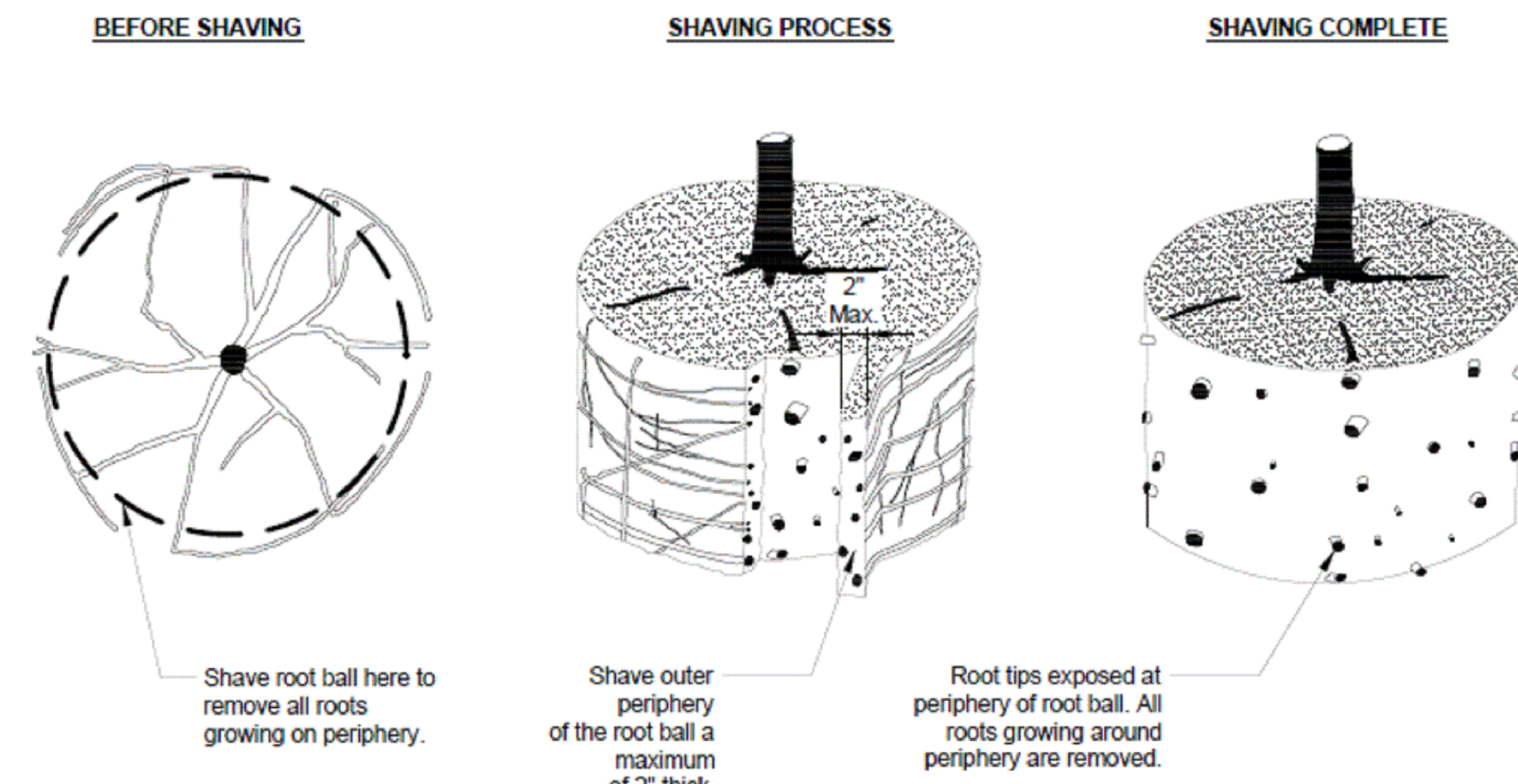
Two competing stems were reduced substantially, in this case removing about 70% of their foliage using reduction cuts.

After pruning, tree has only one dominant stem.

Notes:
1- All trees shown are rejectable unless they undergo recommended treatment.
2- Tree shall meet crown observation detail following correction.

S-X CROWN CORRECTION DETAIL

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Shave root ball here to remove all roots growing on periphery.

Shave outer periphery of the root ball a maximum of 2" thick.

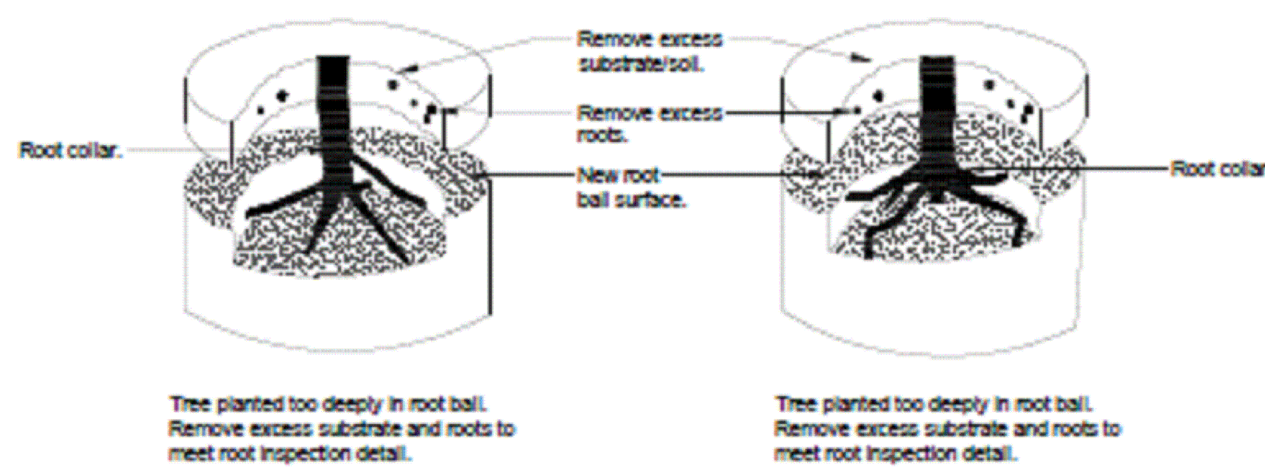
Root tips exposed at periphery of root ball. All roots growing around periphery are removed.

Notes:
1- Shaving to be conducted using a sharp blade or hand saw eliminating no more than needed to remove all roots on the periphery of root ball.
2- Shaving can be performed just prior to planting or after placing in the hole.

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P-X ROOT BALL SHAVING CONTAINER DETAIL

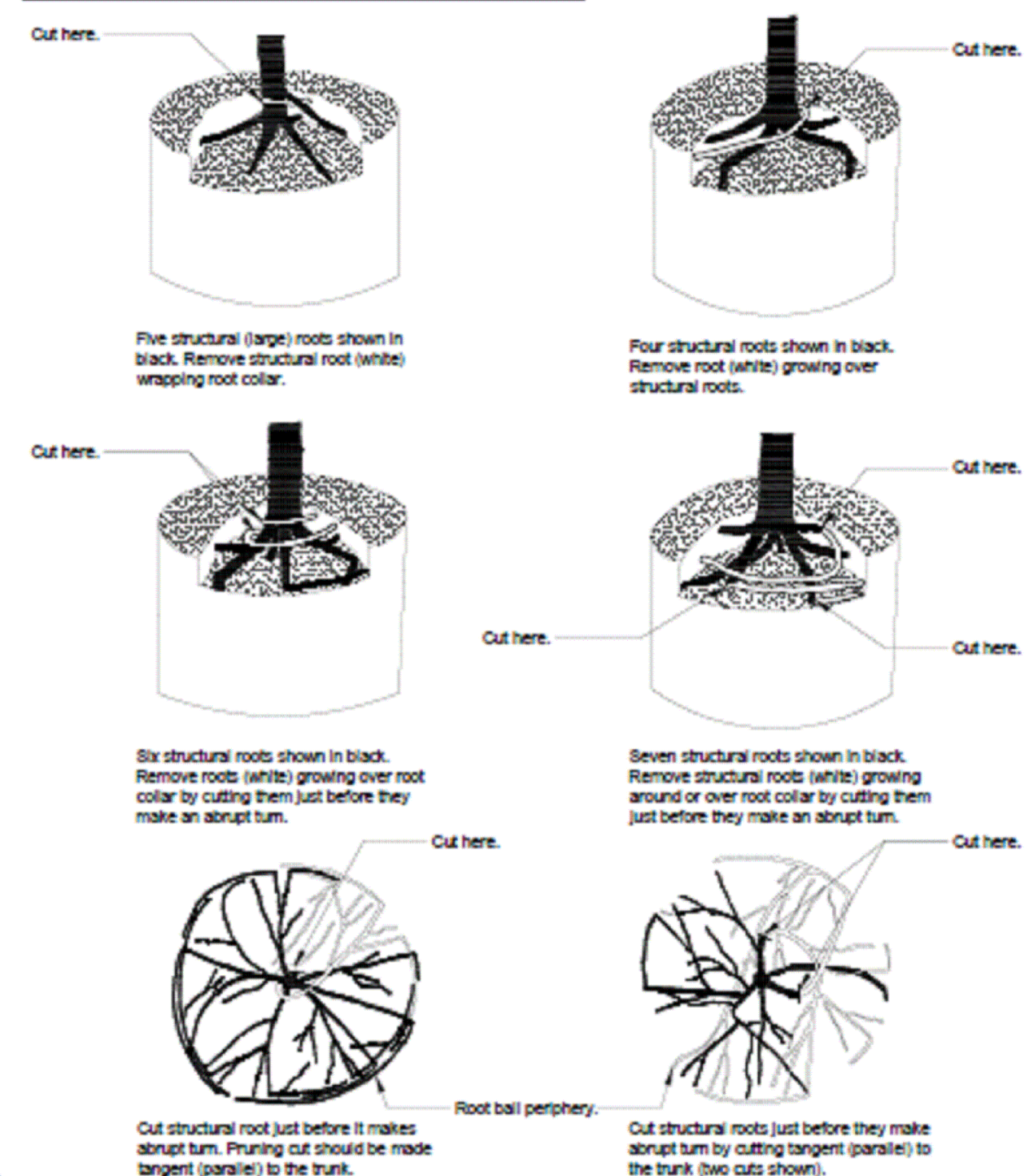
Step 1 - Remove substrate over root collar.



Tree planted too deeply in root ball. Remove excess substrate and roots to meet root inspection detail.

Tree planted too deeply in root ball. Remove excess substrate and roots to meet root inspection detail.

Step 2 - Remove defects.



Five structural (large) roots shown in black. Remove structural root (white) wrapping root collar.

Four structural roots shown in black. Remove root (white) growing over structural roots.

Six structural roots shown in black. Remove roots (white) growing over root collar by cutting them just before they make an abrupt turn.

Seven structural roots shown in black. Remove structural roots (white) growing around or over root collar by cutting them just before they make an abrupt turn.

Out structural root just before it makes abrupt turn. Pruning cut should be made tangent (parallel) to the trunk.

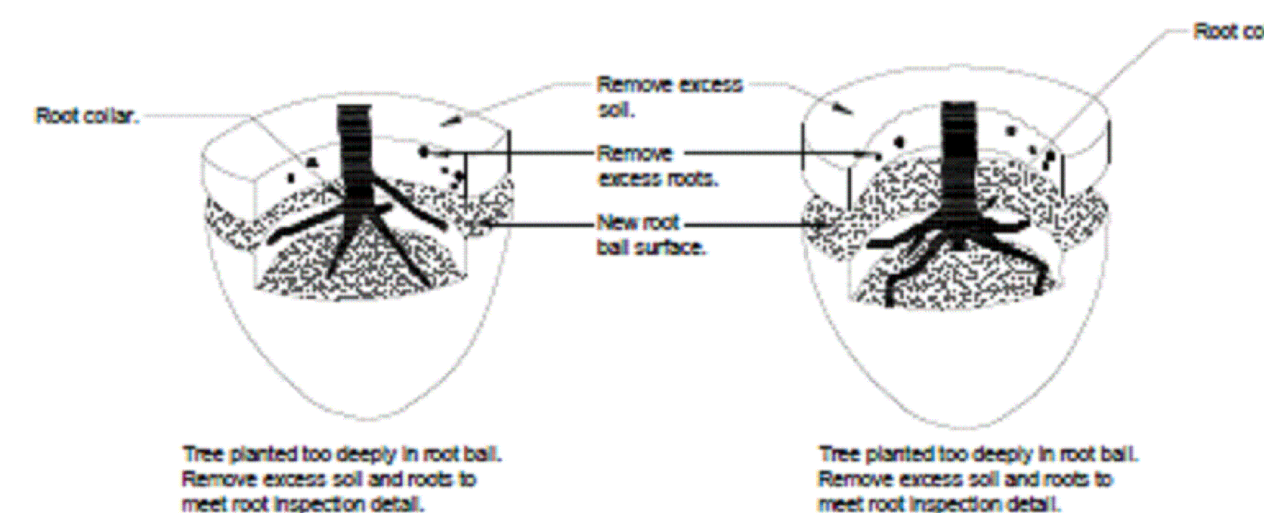
Out structural roots just before they make abrupt turn by cutting tangent (parallel) to the trunk. (Two cuts shown).

Notes:
1- All trees shown are rejectable unless they undergo recommended correction.
2- First Step 1, then Step 2. Roots and soil may be removed during the correction process; substrate/soil shall be replaced after correction has been completed.
3- Trees shall meet root observations detail following correction.
4- Small roots (1/4" or less) on the periphery of the root ball are common with container plant production. These small roots are not defined as "defects" and can be addressed at the time of installation (See root ball shaving container detail).

P-X ROOT CORRECTION DETAIL - CONTAINER

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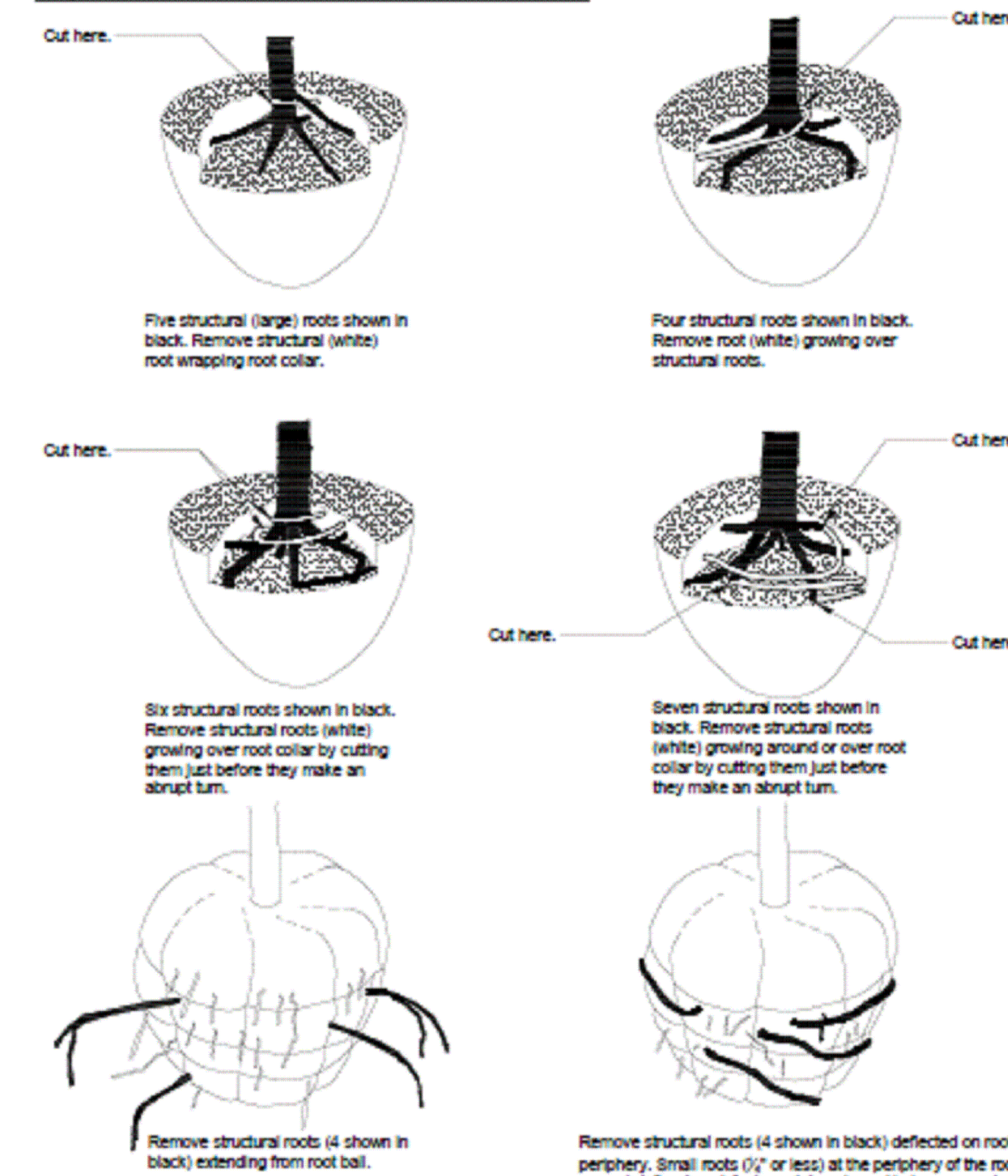
Step 1 - Remove soil and roots over the root collar.



Tree planted too deeply in root ball. Remove excess soil and roots to meet root inspection detail.

Tree planted too deeply in root ball. Remove excess soil and roots to meet root inspection detail.

Step 2 - Remove defects.



Five structural (large) roots shown in black. Remove structural root (white) wrapping root collar.

Four structural roots shown in black. Remove root (white) growing over structural roots.

Six structural roots shown in black. Remove structural roots (white) growing over root collar by cutting them just before they make an abrupt turn.

Seven structural roots shown in black. Remove structural roots (white) growing around or over root collar by cutting them just before they make an abrupt turn.

Remove structural roots (4 shown in black) extending from root ball.

Remove structural roots (4 shown in black) deflected on root ball periphery. Small roots (1/4" or less) at the periphery of the root ball are not defined as defects and do not need to be removed.

Notes:
1- All trees shown are rejectable unless they undergo recommended correction.
2- First step 1, then step 2. Adjust hole depth to allow for the removal of excess soil and roots over the root collar.
3- Roots and soil may be removed during the correction process; substrate/soil shall be replaced after the correction has been completed.
4- Trees shall pass root observations detail following correction.

P-X ROOT CORRECTION DETAIL - BALLED AND BURLAPPED

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