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LANDSCAPE GRADING & TOPSOIL

1. TOPSOIL: REUSE FROM STOCKPILE AND PROVIDE NEW TOPSOIL AS NEEDED

2. IMPORTED TOPSOIL: FRIABLE LOAM, TYPICAL OF CULTIVATED TOPSOILS LOCALLY; FREE OF SUBSOIL, ROOTS, GRASS, EXCESSIVE AMOUNT OF WEEDS, STONE, AND FOREIGN MATTER; ACIDITY RANGE (PH) OF 6.0 TO 7.0; CONTAINING A MINIMUM OF 2 PERCENT AND A MAXIMUM OF 5 PERCENT ORGANIC MATTER. TOPSOIL SHALL NOT BE DELIVERED OR USED FOR PLANTING WHILE IN A FROZEN OR MUDDY CONDITION.

TOPSOIL SHALL CONFORM TO THE FOLLOWING GRAIN SIZE DISTRIBUTION FOR MATERIAL PASSING THE #10 SIEVE:

PERCENT PASSING U.S.SIEVE SIZE NUMBER MINIMUM MAXIMUM

3. SUBMIT SOURCE AND ANALYSIS OF TOPSOIL FOR BACKFILL. TEST TO BE PERFORMED BY ACCREDITED SOILS LABRATORY. SUBMITS SOILS

TEST AND RECOMMENDATIONS FOR AMENDMENTS INCLUDING ADJUSTING SOIL pH TO A VALUE BETWEEN 6.0 AND 7.0. 4. ELIMINATE UNEVEN AREAS AND LOW SPOTS. REMOVE DEBRIS, ROOTS, BRANCHES, STONES, IN EXCESS OF 1 INCH IN SIZE. REMOVE SUB-GRADE CONTAMINATED WITH PETROLEUM PRODUCTS.

5. SCARIFY SUB-GRADE TO DEPTH OF 6 INCHES WHERE TOPSOIL IS SCHEDULED. REMOVE DEBRIS THAT IS BROUGHT TO THE SURFACE IN EXCESS OF 1 INCH IN SIZE.

6. REVIEW SUB-GRADE SCARIFICATION WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCING PLACEMENT OF TOPSOIL. 7. USE TOPSOIL IN RELATIVELY DRY STATE. PLACE DURING DRY WEATHER.

8. FINE GRADE TOPSOIL OR PLANTING MIX ELIMINATING ROUGH OR LOW AREAS. MAINTAIN LEVELS, PROFILES, AND CONTOURS OF 9. REMOVE STONE, ROOTS, GRASS, WEEDS, DEBRIS, AND FOREIGN MATERIAL WHILE SPREADING.

10. MANUALLY SPREAD TOPSOIL OR PLANTING MIX AROUND TREES, PLANTS, AND STRUCTURES, TO PREVENT DAMAGE.

11. LIGHTLY COMPACT PLACED TOPSOIL

12. REMOVE SURPLUS SUBSOIL AND TOPSOIL FROM SITE.

13. LEAVE STOCKPILE AREA AND SITE CLEAN AND RAKED, READY TO RECEIVE LANDSCAPING.

14. TOP OF TOPSOIL OR PLANTING MIX TOLERANCES: PLUS OR MINUS 1/2 INCH. 15. REQUIRED TOPSOIL DEPTH FOR LANDSCAPE AREAS:

A. LAWN AREAS: 6 INCHES MINIMUM TOPSOIL. B. PLANTING BEDS (SHRUBS, GROUNDCOVER, ETC.): 12 INCHES MINIMUM TOPSOIL.

1. SOD: CULTIVATED GRASS SOD; WITH STRONG FIBROUS ROOT SYSTEM, FREE OF STONES, BURNED OR BARE SPOTS, AND WEEDS.

2. VERIFY THAT PREPARED SOIL BASE IS READY TO RECEIVE THE WORK OF THIS SECTION.

3. SUBMIT GRASS SPECIES AND LOCATION OF SOD SOURCE FOR APPROVAL 4. DELIVER SOD ON PALLETS. PROTECT EXPOSED ROOTS FROM DEHYDRATION.

5. DO NOT DELIVER MORE SOD THAN CAN BE LAID WITHIN 24 HOURS.

6. COORDINATE THE WORK OF THIS SECTION WITH INSTALLATION OF UNDERGROUND SPRINKLER SYSTEM AND PLANT MATERIAL AS

7. MAINTAIN SODDED AREAS IMMEDIATELY AFTER PLACEMENT UNTIL GRASS IS WELL ESTABLISHED. HAS ACHIEVED COMPLETE COVERAGE AND EXHIBITS A VIGOROUS GROWING CONDITION OR UNTIL DATE OF SUBSTANTIAL COMPLETION WHICHEVER IS LONGER. MAINTENANCE PERIOD SHALL INCLUDE MINIMUM OF TWO MOWINGS.

8. FINISH GRADE AREAS TO BE SODDED SO THAT THE SURFACE IS SMOOTH AND IS APPROXIMATELY 1 INCH BELOW ADJOINING SIDEWALKS AND OTHER PAVED SURFACES.

9. REMOVE ALL WEEDS AND GRASSES FROM AREAS TO BE SODDED.

10. PLANTING SURFACE SHALL BE MADE FRIABLE BY APPROVED METHOD OF SCARIFICATION. PREPARED SURFACE SHALL BE FLOATED SMOOTH AND FREE OF BUMPS AND DEPRESSIONS. REMOVE STONES AND FOREIGN MATTER OVER 2 INCHES IN DIAMETER FROM TOP 2 INCHES OF SOD BED. PLANT IMMEDIATELY THEREAFTER, PROVIDED THE BED HAS REMAINED IN A FRIABLE CONDITION AND HAS NOT BECOME MUDDY OR HARD. IF IT HAS BECOME HARD, TILL TO A FRIABLE CONDITION AGAIN.

11. APPLY FERTILIZER NO MORE THAN 48 HOURS BEFORE LAYING SOD. 12. LIGHTLY WATER TO AID THE DISSIPATION OF FERTILIZER.

13. PRIOR TO LAYING SOD. INCORPORATE SOIL AMENDMENTS SUCH AS LIME AND SULPHUR AT RATES RECOMMENDED BY SOILS TESTS TO A 4 INCH DEPTH.

14. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD.

15. LAY SOD IMMEDIATELY ON DELIVERY TO SITE WITHIN 24 HOURS AFTER HARVESTING TO PREVENT DETERIORATION.

16. LAY SOD TIGHT WITH NO OPEN JOINTS VISIBLE AND NO OVERLAPPING: STAGGER END JOINTS 12 INCHES MINIMUM. DO NOT STRETCH OR OVERLAP SOD PIECES. 17. FINISHED SODDING TO BE SMOOTH AND FREE OF BUMPS AND DEPRESSION. SURFACE TO BE FLUSH WITH ADJOINING GRASS AREAS IF

ANY. PLACE TOP ELEVATION OF SOD APPROXIMATELY 1/2 INCH BELOW ADJOINING EDGING, PAVING AND CURBS. GRADE PLANTING SURFACE AS NECESSARY TO ACCOMPLISH ABOVE.

18. ON SLOPES 4 INCHES PER FOOT AND STEEPER, LAY SOD PERPENDICULAR TO SLOPE AND SECURE EVERY ROW WITH WOODEN PEGS AT MAXIMUM 2 FEET ON CENTER. DRIVE PEGS FLUSH WITH SOIL PORTION OF SOD.

19. WATER SODDED AREAS DEEPLY IMMEDIATELY AFTER INSTALLATION. 20. AFTER SOD AND SOIL HAVE DRIED SUFFICIENTLY, ROLL SODDED AREAS TO INSURE GOOD BOND BETWEEN SOD AND SOIL AND TO REMOVE

MINOR DEPRESSIONS AND IRREGULARITIES. 21. SODDED AREAS TO BE VIGOROUSLY GROWING AT TIME OF FINAL ACCEPTANCE OR IF INSTALLATION OCCURS DURING DORMANCY WARRANTY TO EXTEND THROUGH FIRST MONTH OF FOLLOWING GROWING SEASON. AT CONCLUSION OF INITIAL WARRANTY PERIOD

REPLACE DEAD OR UNHEALTHY SOD. 22. MOW GRASS AT REGULAR INTERVALS TO MAINTAIN AT A MAXIMUM HEIGHT OF 2-1/2". DO NOT CUT MORE THAN 1/3 OF GRASS BLADE AT

ANY ONE MOWING. 23. NEATLY TRIM EDGES AND HAND CLIP WHERE NECESSARY.

24. IMMEDIATELY REMOVE CLIPPINGS AFTER MOWING AND TRIMMING

25. WATER SUFFICIENTLY TO INSURE ESTABLISHMENT AND MAINTAIN VIGOROUS APPEARANCE.

26. ROLL AND/OR TOPDRESS SURFACE AS NEEDED TO REMOVE MINOR DEPRESSIONS OR IRREGULARITIES.

27. CONTROL GROWTH OF WEEDS. APPLY HERBICIDES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMEDY DAMAGE RESULTING FROM IMPROPER USE OF HERBICIDES.

28. IMMEDIATELY REPLACE SOD IN AREAS WHICH SHOW DETERIORATION OR BARE SPOTS. ANY AREAS THAT HAVE HAD TOPSOIL WASHED AWAY SHALL BE FILLED TO MATCH SPECIFIED GRADE WITH TOPSOIL BEFORE RESODDING.

29. PROTECT SODDED AREAS WITH WARNING SIGNS DURING MAINTENANCE PERIOD.

30. APPLY APPROVED FERTILIZER AT RATE TO PROVIDE 1-1/2 POUNDS OF ACTUAL NITROGEN PER 1000 SQUARE FEET EVERY 25 DAYS DURING

31. FOR THE PURPOSE OF ESTABLISHING AN ACCEPTABLE STANDARD, NO BARE AREAS WILL BE PERMITTED

PLANTING

. WORK REQUIRED IN THIS SECTION TO BE PERFORMED BY EXPERIENCED PERSONNEL UNDER DIRECTION OF A SKILLED FOREMAN. 2. CONTRACTOR SHALL LOCATE ALL MATERIALS AND BE RESPONSIBLE FOR CONFORMANCE WITH REQUIREMENTS OF THIS SECTION. ALL PLANTS NOT MEETING REQUIREMENTS SHALL BE REJECTED

3. ALL TREES TO BE REVIEWED BY OWNER'S REPRESENTATIVE PRIOR TO PLANTING

A. TREES WILL BE REVIEWED AT LOCAL GROWING OR NURSERY BY OWNER'S REPRESENTATIVE AND APPROVED BEFORE DELIVERING TO THE SITE. CONTRACTOR SHALL SCHEDULE REVIEW OF PLANT MATERIAL IN SUCH A MANNER THAT NO SINGLE REVIEW PERIOD WILL EXCEED ONE WORKING DAY WITH A MAXIMUM OF TWO REVIEW PERIODS. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH ALL PARTIES PRIOR TO SCHEDULING.

4. ALL PLANT MATERIAL SHALL BE TRUE TO NAME, IN GOOD HEALTH, FREE OF DISEASE AND INSECTS, EXCELLENT IN FORM AND IN CONFORMANCE WITH ANSI Z60. SPECIES AND SIZE IDENTIFIED ON PLANT LIST. ALL PLANTER MATERIALS TO BE NURSERY GROWN.

5. B&B PLANTS TO BE MOVED WITH SOLID BALLS WRAPPED IN BURLAP. PLANTS TO BE LIFTED ONLY BY BALL OR CONTAINER 6. DELIVER PLANT MATERIALS IMMEDIATELY PRIOR TO PLACEMENT. KEEP PLANT MATERIALS NOT IMMEDIATELY INSTALLED MOIST AND PROTECT FROM FREEZING BY COVERING BALL OR CONTAINER WITH MULCH. ANY PLANTS NOT PLANTED WITHIN 2 DAYS OF DELIVERY ARE TO BE HEELED-IN IN A VERTICAL POSITION, ROOT BALLS FULLY ENCOMPASSED BY MULCH AND A TEMPORARY WATERING SYSTEM

INSTALLED. 7. WARRANT ALL PLANTS TO BE LIVING, HEALTHY SPECIMENS FOR A PERIOD OF ONE YEAR COMMENCING UPON DATE OF SUBSTANTIAL COMPLETION. WARRANTY PERIOD SHALL TERMINATE ONLY IF PLANTS HAVE BEEN IN FULL LEAF FOR 30 DAYS AT END OF WARRANTY PERIOD. TERMINATION OF WARRANTY PERIOD SHALL BE EXTENDED AS NECESSARY TO COMPLY. ALL MATERIALS TO BE IN VIGOROUS

CONDITION AT END OF WARRANTY PERIOD. 8. IMMEDIATELY REMOVE DEAD PLANTS AND PLANTS NOT IN A VIGOROUS CONDITION AND REPLACE AS SOON AS WEATHER CONDITIONS PERMIT. EACH REPLACEMENT SHALL BE COVERED WITH ONE YEAR WARRANTY COMMENCING AT TIME OF PLANTING. REPLACEMENTS TO MATCH ADJACENT PLANTS OF THE SAME SPECIES IN SIZE AND FORM.

9. CONTRACTOR TO BEGIN MAINTENANCE OF PLANT MATERIAL IMMEDIATELY AFTER PLANTING AND CONTINUE UNTIL 60 DAYS PAST DATE OF SUBSTANTIAL COMPLETION

10. MAINTENANCE SHALL INCLUDE MEASURES NECESSARY TO ESTABLISH AND MAINTAIN PLANTS IN A VIGOROUS AND HEALTHY GROWING CONDITION. INCLUDE THE FOLLOWING:

A. CULTIVATION AND WEEDING OF PLANT BEDS AND TREE PITS. WHEN HERBICIDES ARE USED FOR WEED CONTROL, APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMEDY DAMAGE RESULTING FROM USE OF HERBICIDES

B. WATERING SUFFICIENT TO MAINTAIN OPTIMUM MOISTURE LEVEL.

C. PRUNING, INCLUDING REMOVAL OF DEAD OR BROKEN BRANCHES, AND TREATMENT OF PRUNE WOUNDS. D. DISEASE AND INSECT CONTROL.

E. MAINTAINING PLANTS IN AN UPRIGHT, PLUMB POSITION, AND REPAIR OF SETTLING. F. MAINTENANCE OF WRAPPINGS, GUYS, TURNBUCKLES AND STAKES. ADJUST TURNBUCKLES OR OTHERWISE KEEP

G. GUY WIRES TIGHT. REPAIR OR REPLACE ACCESSORIES WHEN REQUIRED.

10. MULCH: PINE BARK MULCH. CONTRACTOR TO SUBMIT TYPE AND SOURCE FOR APPROVAL BY OWNER'S REPRESENTATIVE. 11. FERTILIZER: OSMOCOTE SLOW RELEASE 18-6-12

12. SOIL ACIDIFIER: EQUAL TO TIGER 90 CR ORGANIC SULPHUR 0-0-0-90

13. COMPOST: BACK TO EARTH COMPOSTED COTTON BURRS AS SUPPLIED BY SOIL MENDER PRODUCTS, LP www.soilmender.com

14. METAL EDGING: 3/16 INCH X 4 INCH STEEL LANDSCAPE EDGING WITH STEEL STAKES AS MANUFACTURED BY COL-MET. 3333 MILLER PARK SOUTH, GARLAND, TEXAS 75042, PHONE 972/494-3900, WWW.COLMET.COM. EDGING TO BE SET VERTICAL WITH TOP EDGE 1 INCH ABOVE FINISHED GRADE.

15. WRAPPING MATERIALS: HEAVY PAPER MANUFACTURED FOR TREE WRAPPING PURPOSE.

16. GREEN METAL FENCE POSTS (3 PER TREE) - 8 FOOT HEIGHT.

17. HARDWARE (CABLES, WIRE, EYE BOLTS, AND TURNBUCKLES): NONCORROSIVE; OF SUFFICIENT STRENGTH TO WITHSTAND WIND

18. TIE STRAPS: SOFT POLYPROPYLENE MATERIAL EQUAL TO ARBORTIE, BY DEEP ROOT PARTNERS, L.P., 31 LANGSTON ST., SUITE 4, SAN FRANCISCO, CA, 94103, 1-800-277-7668

19. REMOVE ALL WEEDS AND GRASSES FROM PLANTING BEDS. BERMUDA GRASS, IF PRESENT, TO BE EXTERMINATED BY APPROVED MEANS OR ALL SOIL REMOVED TO 6 INCH DEPTH AND REPLACED WITH TOPSOIL FREE OF BERMUDA GRASS.

20. STAKE TREE LOCATIONS AND PLACE SHRUBS, VINES, AND GROUND COVERS FOR REVIEW AND FINAL ORIENTATION BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

21. OUTLINE BED EDGES FOR APPROVAL BY OWNER'S REPRESENTATIVE.

22. EXCAVATE FOR PLANT MATERIALS. TREE PITS SHALL BE 8' IN DIAMETER. CIRCLE TO BE CENTERED ON TREE AND TRUE IN FORM. SLOPE CUT EDGE TO 6" DEPTH AND BOTTOM OF PIT TO DEPTH REQUIRED TO ACCOMMODATE TREE ROOTBALL. SHRUB PITS SHALL BE 12 INCHES GREATER IN DIAMETER THAN ROOT BALL. TOPSOIL FROM EXCAVATION MAY BE RETAINED FOR BACKFILL IF IT IS FRIABLE AND FREE OF ROCK AND CLODS GREATER THAN 2" IN DIA. REMOVE ALL SUBSOIL, ROCK, AND DEBRIS FROM SITE.

23. SET TREES WITH TOP OF ROOT BALL 3 INCHES ABOVE SURROUNDING GRADE, AND OTHER PLANT MATERIALS 1 INCHES ABOVE SURROUNDING GRADE, AFTER SETTLEMENT.

24. REMOVE CONTAINERS FROM CONTAINER-GROWN STOCK. SET PLANTS IN CENTER OF PITS AND BACKFILL WITH TOPSOIL IN 6 INCH

LAYERS. PULL AWAY ROPES, WIRES, ETC. FROM THE TOP OF THE BALL 25. REMOVE ANY SOIL FROM THE TOP OF THE ROOTBALL, TO THE LEVEL OF THE ROOT FLARE.

26. THOROUGHLY WATER SOIL WHEN THE HOLE IS HALF FULL, AND AGAIN WHEN FULL.

27. APPLY 1/2 POUND FERTILIZER EVENLY OVER CULTIVATED AREA AROUND EACH TREE AND 1 POUND PER 100 SQUARE FEET TO SHRUB AND GROUND COVER PLANTINGS.

28. AFTER PLANTING TREES, FORM A 3' DIAMETER RIDGE OF TOPSOIL AROUND EDGE OF EXCAVATION TO RETAIN WATER.

IRRIGATION NOTES

1. IRRIGATION SYSTEM TO BE ELECTRIC SOLENOID CONTROLLED UNDERGROUND SPRINKLER SYSTEM CONSISTING OF PVC PLASTIC PIPE AND FITTINGS, WITH FIXED SPRAY AND VARIABLE ARC ROTARY POP-UP HEADS IN A MULTI-STATION ELECTRIC CONTROL SYSTEM, PROGRAMMED AS APPROVED BY OWNER'S REPRESENTATIVE.

2. SUBMIT THE IRRIGATION DESIGN FOR REVIEW AND APPROVAL BY OWNER'S REPRESENTATIVE NO LESS THAN TWO WEEKS PRIOR TO COMMENCING INSTALLATION OPERATIONS. THE DESIGN SHALL INCLUDE THE PIPING LAYOUT, LOCATION AND COVERAGE OF SPRINKLEF HEADS, NOZZLE SIZES AND TYPES, PLANT AND LANDSCAPING FEATURES, SITE STRUCTURES, LIST OF FITTINGS TO BE USED, AND CONTROL SYSTEM AND WIRING DIAGRAMS AND DATA; AND SHALL NOTE WATER PRESSURE AT THE PROJECT SITE.

3. UPON COMPLETION AND FINAL REVIEW OF SYSTEM BY OWNER'S REPRESENTATIVE, CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS (REPRODUCIBLES) OF COMPLETED FACILITIES AS INSTALLED. DRAWINGS SHALL BE PROVIDED TO ARCHITECT IN A) ELECTRONIC FORM (AUTOCAD 2010 FORMAT) B) THREE (3) COPIES OF THE AS-BUILT DRAWING IN BLUELINE OR PHOTOCOPY FORM. AS-BUILT DRAWING SHALL SHOW THE MEASURED DISTANCE FROM EASILY IDENTIFIED, FIXED LOCATIONS TO ISOLATION VALVES, ELECTRIC CONTROL VALVES, MANUAL DRAIN VALVES AND WIRE SPLICES. TWO DIMENSIONS FROM FIXED POINTS PER LOCATION ARE REQUIRED.

4. UPON COMPLETION AND FINAL REVIEW OF SYSTEM BY OWNER'S REPRESENTATIVE, CONTRACTOR SHALL PROVIDE THREE (3) BINDERS CONTAINING MANUFACTURER'S INSTALLATION. OPERATION AND MAINTENANCE INSTRUCTIONS AS WELL AS A PARTS BREAKDOWN AND CATALOG FOR EACH PIECE OF EQUIPMENT INSTALLED ON THE PROJECT. AS A MINIMUM THE BINDERS SHALL INCLUDE INFORMATION FOR THE IRRIGATION CONTROLLER, BOOSTER PUMP, BACKFLOW PREVENTER, PRESSURE REGULATORS, ISOLATION VALVES, ELECTRIC CONTROL VALVES, DRAIN VALVES, AIR RELIEF VALVES, ALL SPRAY AND ROTARY SPRINKLER HEADS, RAIN AND FREEZE AND MOISTURE

5. IRRIGATION CONTRACTOR TO PROVIDE A RECOMMENDED SCHEDULE FOR RUN TIMES AND FREQUENCY OF WATERING FOR THE FIRST TWO WEEKS, THE FIRST TWO MONTHS, AND THE FIRST TWELVE MONTHS (INCLUDING ALL SEASONAL CHANGE REQUIREMENTS) AFTER COMPLETION OF ENTIRE SYSTEM.

6. CONTRACTOR TO INSTRUCT OWNER'S PERSONNEL IN OPERATION AND MAINTENANCE OF ENTIRE SYSTEM INCLUDING ADJUSTING OF SPRINKLER HEADS.

7. CONTRACTOR TO INSPECT IRRIGATION SYSTEM AT TWO AND FOUR WEEKS AFTER DATE OF SUBSTANTIAL COMPLETION AND MAKE **NECESSARY ADJUSTMENTS.**

8. ENTIRE IRRIGATION SYSTEM TO BE UNCONDITIONALLY GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP. INCLUDING REPAIR OF SETTLING OF BACKFILLED AREAS BELOW GRADE AND ADJUSTING HEADS TO PROPER LEVEL FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

9. ALL MINOR ADJUSTMENTS, ANY DEFECTIVE ELECTRICAL CONTROL VALVES, SPRINKLER HEADS OR OTHER WORKING PARTS SHALL BE REPAIRED OR REPLACED WITHOUT COST TO THE OWNER FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

10. ALL DAMAGE BY OTHERS DURING THE ONE-YEAR GUARANTEE PERIOD WILL BE OWNER'S RESPONSIBILITY.

11. ALL MATERIALS TO BE INCORPORATED IN THIS SECTION BE NEW AND OF THE BEST QUALITY MEETING. 12. ACCEPTABLE MANUFACTURERS:

A. RAINBIRD B. WEATHER-MATIC C. HUNTER

13. MAINLINE PIPING: SIZE AS INDICATED ON PLANS AT 18" MINIMUM DEPTH

14. LATERAL PIPING: ALL LATERAL PIPES, DOWNSTREAM OF THE CONTROL VALVES, SHALL BE HAVE SOLVENT WELD JOINTS AND SHALL MEET THE LATEST REQUIREMENTS OF ASTM D 2241 STANDARD SPECIFICATION FOR POLY (VINYL CHLORIDE) (PVC) PLASTIC PIPE WITH STANDARD DIMENSION RATIO (SDR) OF 21 AND A PRESSURE RATING (PR) OF 200 PSI. LATERAL PIPING TO BE INSTALLED AT 12" MINIMUM

15. DRIP IRRIGATION: PIPE AND FITTINGS EQUAL TO RAINBIRD

16. ALL PIPING TO HAVE MAXIMUM VELOCITIES OF FIVE FEET PER SECOND.

17. VALVE BOXES FOR AUTOMATIC CONTROL VALVES TO BE EQUAL TO CARSON INDUSTRIES MODEL 1419-3 WITH 1419-6X EXTENSIONS. 18. SET VALVE BOX COVERS LEVEL AT FINISH GRADE. RECTANGULAR VALVE BOXES TO BE PLACED PARALLEL TO NEARBY CURBS AND WALKS OR OTHER IMPROVEMENTS. VALVES AND VALVE BOXES SHALL BE INSTALLED WHERE SHOWN OR DIRECTED, AND SHALL BE SET PLUMB.

VALVE BOXES SHALL BE CENTERED ON THE VALVES. WHERE FEASIBLE, VALVES SHALL BE LOCATED OUTSIDE THE AREA OF NATURAL WALKWAYS OR PATHS AND SHALL BE PLACED IN GROUNDCOVER AREAS WHERE POSSIBLE. EARTH FILL SHALL BE CAREFULLY TAMPED AROUND EACH VALVE BOX. VALVE BOXES SHOULD BE SUPPORTED OR BLOCKED SUCH THAT ANY SURFACE LOADS ON THE VALVE BOXES WILL NOT BE TRANSMITTED BELOW TO THE PIPE OR VALVES. WASHED GRAVEL SUMPS SHALL BE PROVIDED BELOW ALL VALVE BOXES TO PERMIT DRAINAGE OF WATER AWAY FROM VALVES. MINIMUM DEPTH OF GRAVEL SUMP IS 8 INCHES.

19. ABOVE GRADE BACKFLOW PREVENTERS TO BE IN FIBERGLASS ENCLOSURE EQUAL TO "HOT BOX" MANUFACTURED BY NORTHEAST FLORIDA ENTERPRISES, INC. 1/800-736-0238. PLACE ON CONCRETE SLAB AND ANCHOR WITH 4 BOLTS. SIZE TO FIT BACKFLOW PREVENTER. PROVIDE ELECTRICAL CONNECTION FOR HEATER CABLE AS RECOMMENDED BY ENCLOSURE MANUFACTURER.

20. WIRE FOR COMMUNICATION BETWEEN THE CONTROLLER AND DECODERS SHALL BE 14-2 GAUGE MAXI-CABLE AS REQUIRED FOR THE

21. ENVIRONMENTAL SENSORS TO BE EQUAL TO RAINBIRD WR2 RAIN/FREEZE SENSOR. MOUNT SENSOR AT INCONSPICUOUS LOCATION APPROVED BY OWNER'S REPRESENTATIVE USING MANUFACTURER'S RECOMMENDATIONS.

22. CONTRACTOR SHALL PROVIDE A BOOSTER PUMP TO INCREASE THE WATER PRESSURE WHERE NECESSARY TO PROVIDE DESIGNED PRESSURE. THE FINAL BOOSTER PUMP STATION DESIGN CRITERIA WILL DEPEND ON THE DESIGN REQUIREMENTS FOR PROJECT AS WELL AS THE STATIC WATER PRESSURE AT THE TIME OF PROJECT CONSTRUCTION. CONTRACTOR SHALL CONSULT WITH OWNER OR HIS REPRESENTATIVE BEFORE ORDERING THE BOOSTER PUMP.

COMPLETE DRAINAGE OF SYSTEM WHEN NOT IN USE. WRAP EACH VALVE WITH APPROVED FILTER FABRIC. MINIMUM OF TWO DRAINS PER

23. INSTALL AUTOMATIC DRAIN VALVES AT ALL LOW SECTIONS OF LATERAL PIPING (LINES DOWNSTREAM FROM VALVES) TO ENSURE

ZONE. 24. UPON COMPLETION OF THE IRRIGATION SYSTEM INSTALLATION INCLUDING ALL PRESSURE TESTS, CONTRACTOR SHALL CONDUCT A PERFORMANCE TEST OF THE COMPLETE SYSTEM TO INSURE THAT ALL COMPONENTS ARE FUNCTIONING PROPERLY. PERFORMANCE TEST SHALL CONSIST OF OPERATING THE SYSTEM THROUGH A COMPLETE IRRIGATION CYCLE PER DAY FOR TWO (2) CONSECUTIVE DAYS CONTRACTOR SHALL BE AT THE SITE TO MONITOR THE PERFORMANCE TESTS AND MAKE ANY ADJUSTMENTS AND CORRECTIONS AS NEEDED DURING THE TESTING PERIOD.



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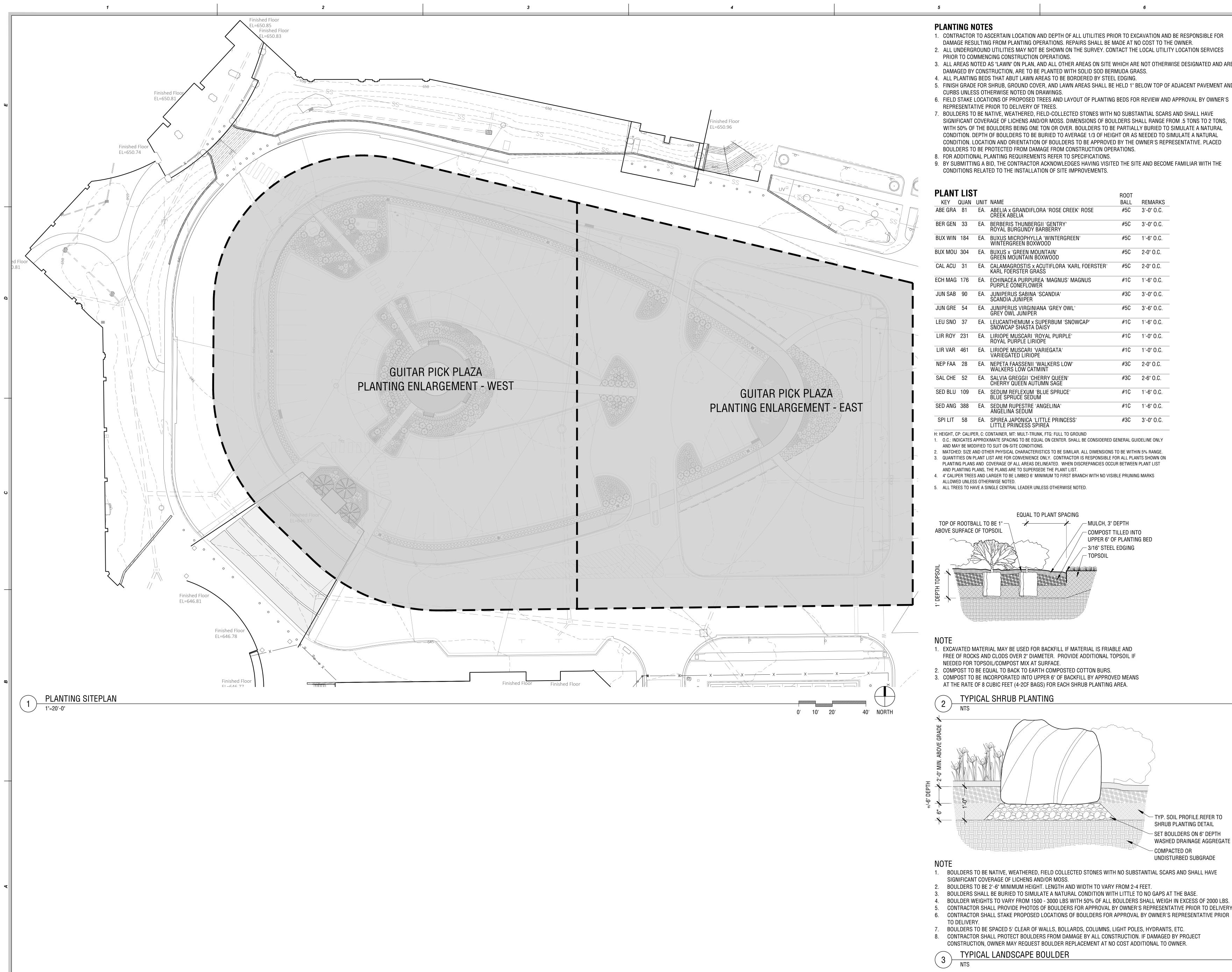
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GUITAR PICK PLAZA

No.	Description	Date

GUITAR PICK PLAZA LANDSCAPE SPECIFICATIONS





- 1. CONTRACTOR TO ASCERTAIN LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO EXCAVATION AND BE RESPONSIBLE FOR
- DAMAGE RESULTING FROM PLANTING OPERATIONS. REPAIRS SHALL BE MADE AT NO COST TO THE OWNER 2. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THE SURVEY. CONTACT THE LOCAL UTILITY LOCATION SERVICES
- PRIOR TO COMMENCING CONSTRUCTION OPERATIONS. 3. ALL AREAS NOTED AS "LAWN" ON PLAN, AND ALL OTHER AREAS ON SITE WHICH ARE NOT OTHERWISE DESIGNATED AND ARE
- DAMAGED BY CONSTRUCTION, ARE TO BE PLANTED WITH SOLID SOD BERMUDA GRASS.
- 4. ALL PLANTING BEDS THAT ABUT LAWN AREAS TO BE BORDERED BY STEEL EDGING.
- 5. FINISH GRADE FOR SHRUB, GROUND COVER, AND LAWN AREAS SHALL BE HELD 1" BELOW TOP OF ADJACENT PAVEMENT AND CURBS UNLESS OTHERWISE NOTED ON DRAWINGS.
- 6. FIELD STAKE LOCATIONS OF PROPOSED TREES AND LAYOUT OF PLANTING BEDS FOR REVIEW AND APPROVAL BY OWNER'S
- 7. BOULDERS TO BE NATIVE, WEATHERED, FIELD-COLLECTED STONES WITH NO SUBSTANTIAL SCARS AND SHALL HAVE SIGNIFICANT COVERAGE OF LICHENS AND/OR MOSS. DIMENSIONS OF BOULDERS SHALL RANGE FROM .5 TONS TO 2 TONS, CONDITION. DEPTH OF BOULDERS TO BE BURIED TO AVERAGE 1/3 OF HEIGHT OR AS NEEDED TO SIMULATE A NATURAL
- CONDITION. LOCATION AND ORIENTATION OF BOULDERS TO BE APPROVED BY THE OWNER'S REPRESENTATIVE. PLACED BOULDERS TO BE PROTECTED FROM DAMAGE FROM CONSTRUCTION OPERATIONS.
- 8. FOR ADDITIONAL PLANTING REQUIREMENTS REFER TO SPECIFICATIONS.

9. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES HAVING VISITED THE SITE AND BECOME FAMILIAR WITH THE CONDITIONS RELATED TO THE INSTALLATION OF SITE IMPROVEMENTS.

PLANT	LIS			R00T	
KEY	QUAN	UNIT	NAME	BALL	REMARKS
ABE GRA	81	EA.	ABELIA x GRANDIFLORA 'ROSE CREEK' ROSE CREEK ABELIA	#5C	3'-0" O.C.
BER GEN	33	EA.	BERBERIS THUNBERGII 'GENTRY' ROYAL BURGUNDY BARBERRY	#5C	3'-0" O.C.
BUX WIN	184	EA.	BUXUS MICROPHYLLA 'WINTERGREEN' WINTERGREEN BOXWOOD	#5C	1'-6" O.C.
BUX MOU	304	EA.	BUXUS x 'GREEN MOUNTAIN' GREEN MOUNTAIN BOXWOOD	#5C	2-0" O.C.
CAL ACU	31	EA.	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER' KARL FOERSTER GRASS	#5C	2-0" O.C.
ECH MAG	176	EA.	ECHINACEA PURPUREA 'MAGNUS' MAGNUS PURPLE CONEFLOWER	#1C	1'-6" O.C.
JUN SAB	90	EA.	JUNIPERUS SABINA 'SCANDIA' SCANDIA JUNIPER	#3C	3'-0" O.C.
JUN GRE	54	EA.	JUNIPERUS VIRGINIANA 'GREY OWL' GREY OWL JUNIPER	#5C	3'-6" O.C.
LEU SNO	37	EA.	LEUCANTHEMUM x SUPERBUM 'SNOWCAP' SNOWCAP SHASTA DAISY	#1C	1'-6" O.C.
LIR ROY	231	EA.	LIRIOPE MUSCARI 'ROYAL PURPLE' ROYAL PURPLE LIRIOPE	#1C	1'-0" O.C.
LIR VAR	461	EA.	LIRIOPE MUSCARI 'VARIEGATA' VARIEGATED LIRIOPE	#1C	1'-0" O.C.
NEP FAA	28	EA.	NEPETA FAASSENII 'WALKERS LOW' WALKERS LOW CATMINT	#3C	2-0" O.C.
SAL CHE	52	EA.	SALVIA GREGGII 'CHERRY QUEEN' CHERRY QUEEN AUTUMN SAGE	#3C	2-6" O.C.
SED BLU	109	EA.	SEDUM REFLEXUM 'BLUE SPRUCE' BLUE SPRUCE SEDUM	#1C	1'-6" O.C.
SED ANG	388	EA.	SEDUM RUPESTRE 'ANGELINA' ANGELINA SEDUM	#1C	1'-6" O.C.
SPI LIT	58	EA.	SPIREA JAPONICA 'LITTLE PRINCESS' LITTLE PRINCESS SPIREA	#3C	3'-0" O.C.

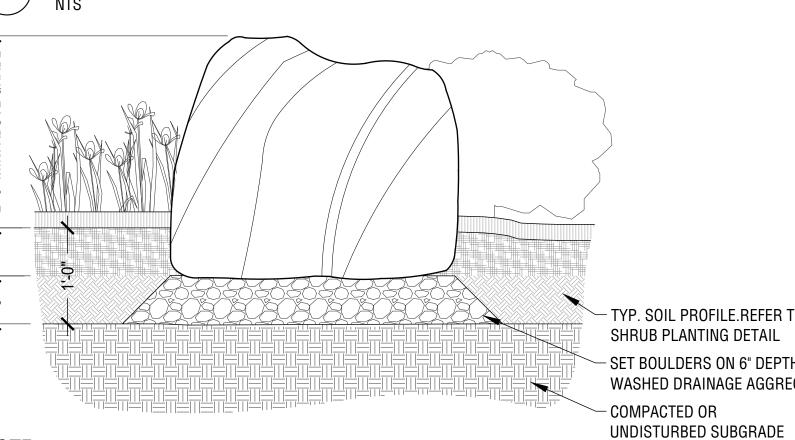
H: HEIGHT, CP: CALIPER, C: CONTAINER, MT: MULT-TRUNK, FTG: FULL TO GROUND

- 1. O.C.: INDICATES APPROXIMATE SPACING TO BE EQUAL ON CENTER. SHALL BE CONSIDERED GENERAL GUIDELINE ONLY AND MAY BE MODIFIED TO SUIT ON-SITE CONDITIONS.
- MATCHED: SIZE AND OTHER PHYSICAL CHARACTERISTICS TO BE SIMILAR. ALL DIMENSIONS TO BE WITHIN 5% RANGE
- AND PLANTING PLANS, THE PLANS ARE TO SUPERSEDE THE PLANT LIST. 4. 4" CALIPER TREES AND LARGER TO BE LIMBED 6' MINIMUM TO FIRST BRANCH WITH NO VISIBLE PRUNING MARKS
- ALLOWED UNLESS OTHERWISE NOTED. 5. ALL TREES TO HAVE A SINGLE CENTRAL LEADER UNLESS OTHERWISE NOTED.

EQUAL TO PLANT SPACING — MULCH, 3" DEPTH TOP OF ROOTBALL TO BE 1" \neg ABOVE SURFACE OF TOPSOIL - COMPOST TILLED INTO UPPER 6" OF PLANTING BED - 3/16" STEEL EDGING - TOPSOIL

- 1. EXCAVATED MATERIAL MAY BE USED FOR BACKFILL IF MATERIAL IS FRIABLE AND FREE OF ROCKS AND CLODS OVER 2" DIAMETER. PROVIDE ADDITIONAL TOPSOIL IF NEEDED FOR TOPSOIL/COMPOST MIX AT SURFACE.
- 2. COMPOST TO BE EQUAL TO BACK TO EARTH COMPOSTED COTTON BURS.
- 3. COMPOST TO BE INCORPORATED INTO UPPER 6" OF BACKFILL BY APPROVED MEANS AT THE RATE OF 8 CUBIC FEET (4-2CF BAGS) FOR EACH SHRUB PLANTING AREA.

TYPICAL SHRUB PLANTING



TYP. SOIL PROFILE.REFER TO SHRUB PLANTING DETAIL - SET BOULDERS ON 6" DEPTH WASHED DRAINAGE AGGREGATE COMPACTED OR

- 1. BOULDERS TO BE NATIVE, WEATHERED, FIELD COLLECTED STONES WITH NO SUBSTANTIAL SCARS AND SHALL HAVE
- SIGNIFICANT COVERAGE OF LICHENS AND/OR MOSS. 2. BOULDERS TO BE 2'-6" MINIMUM HEIGHT. LENGTH AND WIDTH TO VARY FROM 2-4 FEET.
- 3. BOULDERS SHALL BE BURIED TO SIMULATE A NATURAL CONDITION WITH LITTLE TO NO GAPS AT THE BASE.
- 5. CONTRACTOR SHALL PROVIDE PHOTOS OF BOULDERS FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO DELIVERY. 6. CONTRACTOR SHALL STAKE PROPOSED LOCATIONS OF BOULDERS FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR
- TO DELIVERY. 7. BOULDERS TO BE SPACED 5' CLEAR OF WALLS, BOLLARDS, COLUMNS, LIGHT POLES, HYDRANTS, ETC.
 - TYPICAL LANDSCAPE BOULDER



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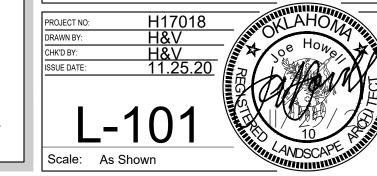
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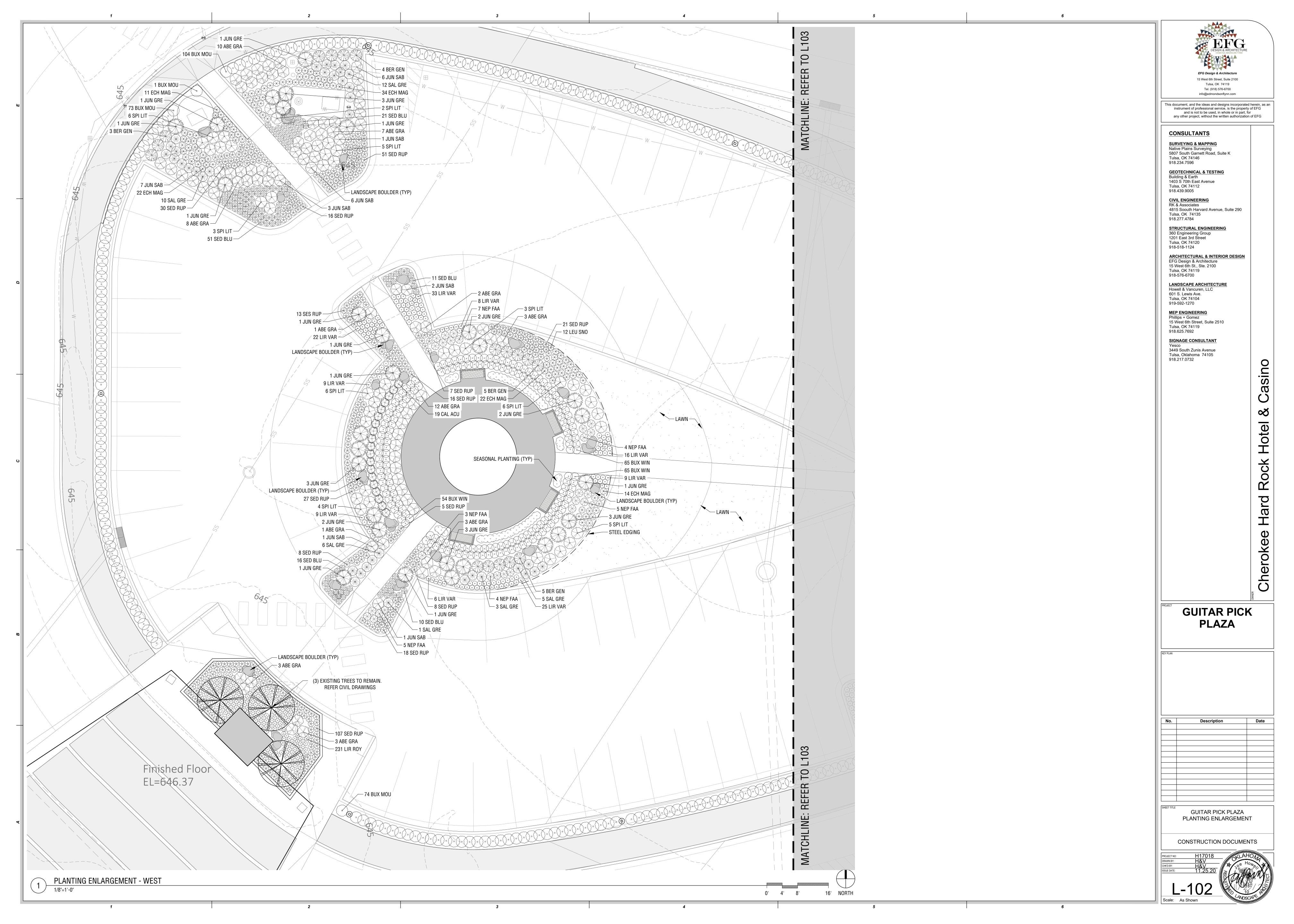
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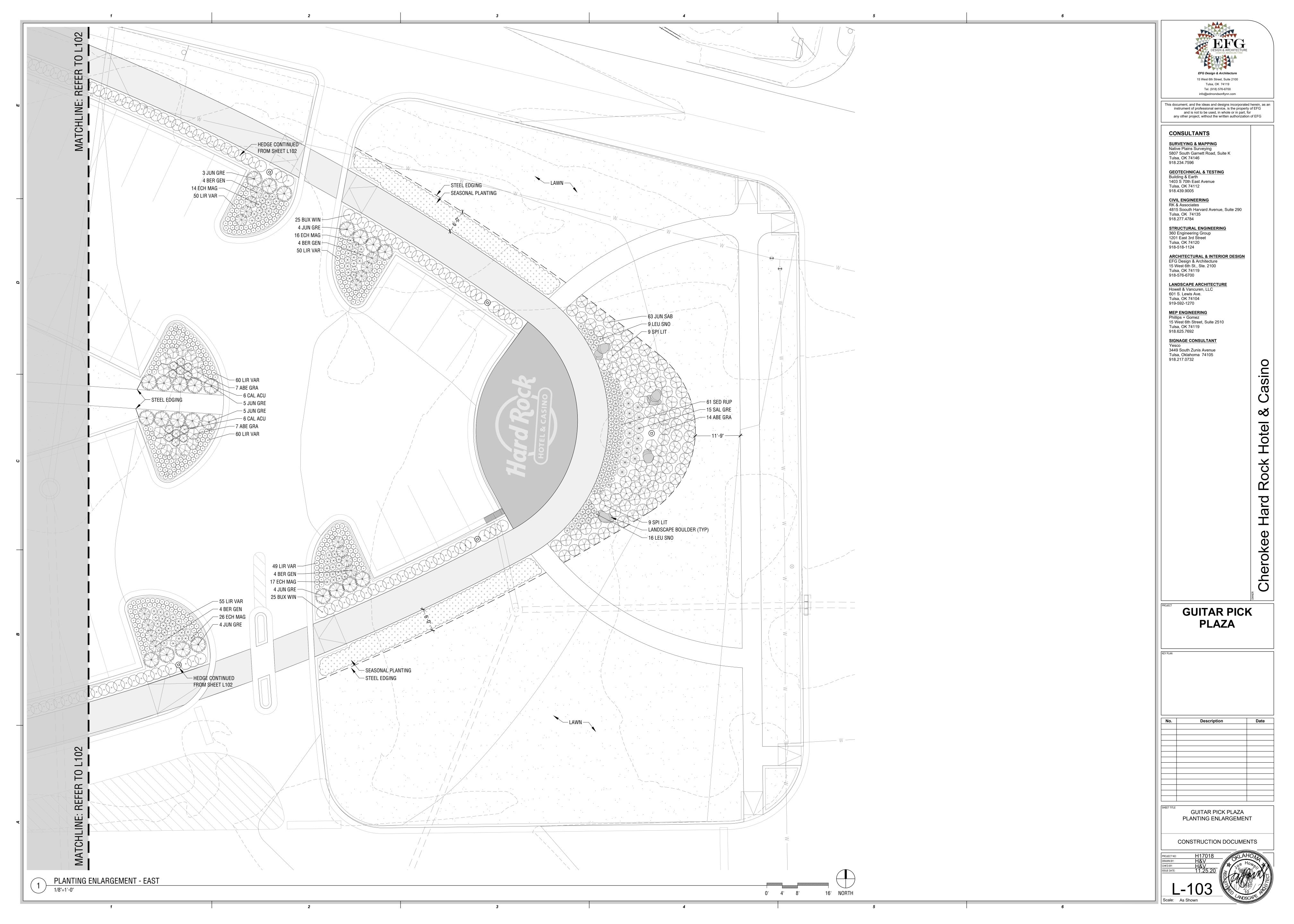
GUITAR PICK PLAZA

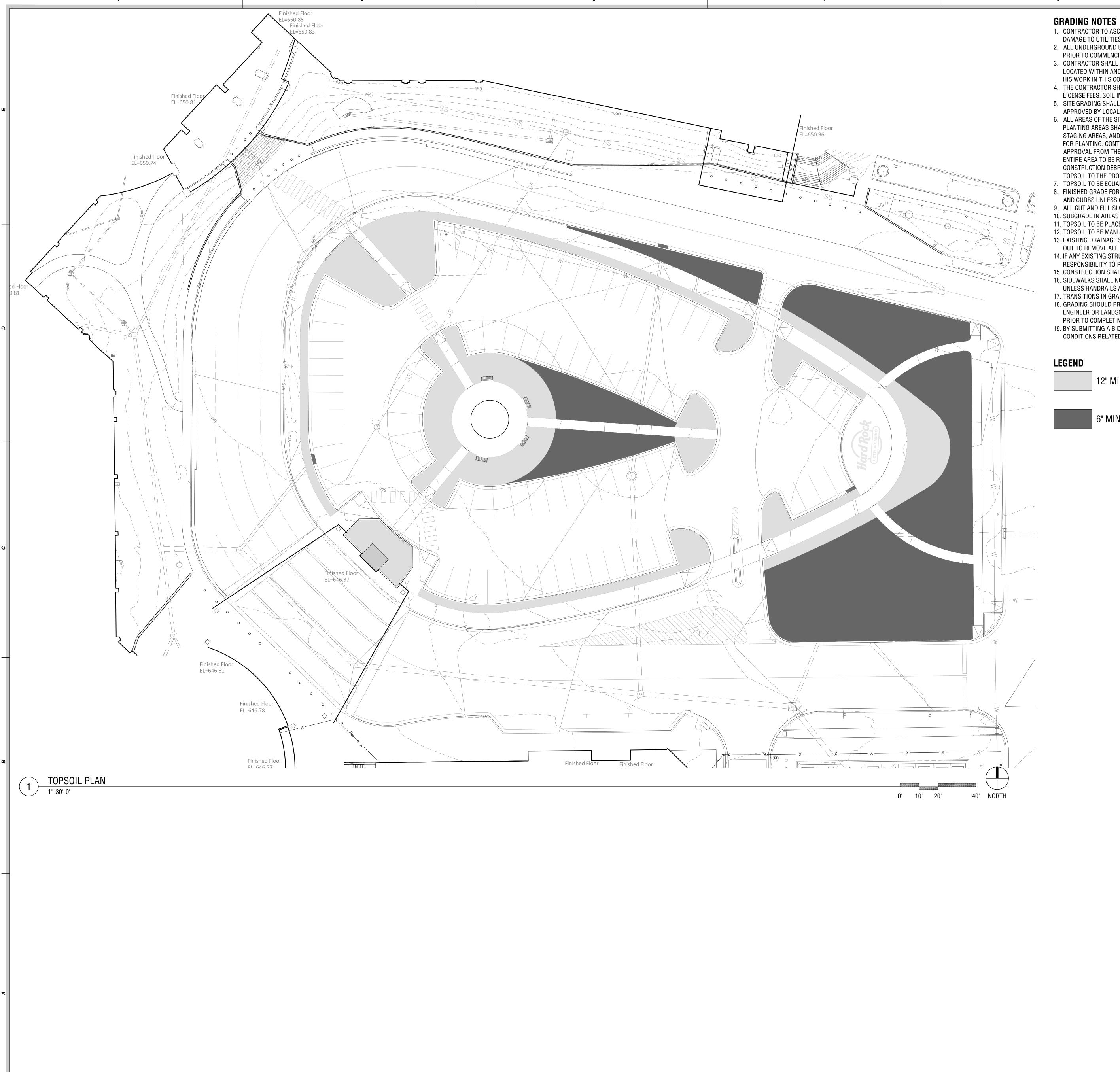
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GUITAR PICK PLAZA PLANTING SITEPLAN









- 1. CONTRACTOR TO ASCERTAIN LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO EXCAVATION AND BE RESPONSIBLE FOR DAMAGE TO UTILITIES RESULTING FROM GRADING OPERATIONS. REPAIRS SHALL BE MADE AT NO COST TO THE OWNER. 2. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THE SURVEY. CONTACT THE LOCAL UTILITY LOCATION SERVICES
- PRIOR TO COMMENCING CONSTRUCTION OPERATIONS. 3. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL STRUCTURES, LANDSCAPING, PAVING AND OTHER ITEMS LOCATED WITHIN AND OUTSIDE WORK AREA. ANY DAMAGE TO PERMANENT ITEMS INCURRED BY THE CONTRACTOR THROUGH HIS WORK IN THIS CONTRACT SHALL BE REPAIRED TO ORIGINAL CONDITION BY THE CONTRACTOR AT HIS OWN EXPENSE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GRADING AND EARTH CHANGE PERMITS, PERMIT FEES, LICENSES, LICENSE FEES, SOIL IMPORT AND HAUL-OFF FEES, ETC.

5. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED, INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

6. ALL AREAS OF THE SITE IDENTIFIED FOR LAWN PLANTING SHALL RECEIVE 6" OF TOPSOIL, AND SHRUB AND GROUND COVER PLANTING AREAS SHALL RECEIVE A MINIMUM OF 12" OF TOPSOIL, UNLESS OTHERWISE NOTED. IN CONSTRUCTION AREAS, STAGING AREAS, AND CONSTRUCTION TRAFFIC AREAS, THE TOPSOIL SHALL NOT BE PLACED UNTIL THE PROJECT IS READY FOR PLANTING. CONTRACTOR SHALL GRADE THE SUBGRADE TO THE REQUIRED ELEVATION TO RECEIVE TOPSOIL AND GAIN APPROVAL FROM THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING. AFTER APPROVAL,

ENTIRE AREA TO BE RIPPED OR SCARIFIED TO A MINIMUM DEPTH OF 6", AND ALL STONES, CLODS, ROOTS AND CONSTRUCTION DEBRIS LARGER THAN 2" DIAMETER THAT IS BROUGHT TO THE SURFACE SHALL BE REMOVED. PLACE

TOPSOIL TO THE PROFILE INDICATED AND LIGHTLY COMPACT. . TOPSOIL TO BE EQUAL TO "PLANTING MIX" AS SUPPLIED BY GEM DIRT. www.gemdirt.com

B. FINISHED GRADE FOR SHRUB, GROUND COVER, AND LAWN AREAS TO BE HELD 1" BELOW THE TOP OF ADJACENT PAVEMENT AND CURBS UNLESS OTHERWISE NOTED.

9. ALL CUT AND FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

10. SUBGRADE IN AREAS TO RECEIVE TOPSOIL TO BE SCARIFIED 6" DEPTH MINIMUM.

11. TOPSOIL TO BE PLACED IN A RELATIVELY DRY STATE AND DURING DRY WEATHER.

12. TOPSOIL TO BE MANUALLY PLACED AROUND TREES, PLANTS, STRUCTURES, ETC. TO PREVENT DAMAGE.

13. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.

14. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.

15. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO THE SAME. 16. SIDEWALKS SHALL NOT EXCEED A MAXIMUM 2% CROSS-SLOPE, AND A MAXIMUM 5% SLOPE IN THE DIRECTION OF TRAVEL

UNLESS HANDRAILS ARE PROVIDED EACH SIDE OF WALK PER ADA REQUIREMENTS. 17. TRANSITIONS IN GRADE SHALL BE SMOOTH AND UNBROKEN UNLESS OTHERWISE NOTED.

18. GRADING SHOULD PROVIDE A MINIMUM 2% IN LAWN AREAS, TOWARD DRAINS OR SWALES. CONTRACTOR TO INFORM ENGINEER OR LANDSCAPE ARCHITECT WHERE SLOPES FALL BELOW THE MINIMUM OR WHERE PONDING IS ANTICIPATED, PRIOR TO COMPLETING ESTABLISHMENT OF FINAL GRADE.

19. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES HAVING VISITED THE SITE AND BECOME FAMILIAR WITH THE CONDITIONS RELATED TO THE INSTALLATION OF SITE IMPROVEMENTS.

12" MINIMUM DEPTH TOPSOIL

6" MINIMUM DEPTH TOPSOIL



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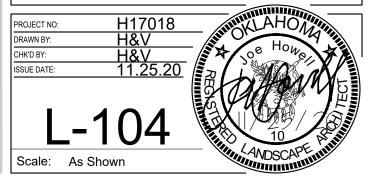
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GUITAR PICK PLAZA

No.	Description	Date				

GUITAR PICK PLAZA TOPSOIL PLAN



- 1. LIMITS AND EXTENT OF EXISTING IRRIGATION SYSTEM(S) IS UNKNOWN. CONTRACTOR TO VERIFY AND BE RESPONSIBLE FOR POINT OF CONNECTION FOR NEW LOOP EXTENSION TO TIE INTO EXISTING MAINLINE.
- 2. IF NO ENVIRONMENTAL SENSORS ARE FOUND ON EXISTING SYSTEM, CONTRACTOR TO VERIFY INSTALLATION OF NEW
- 4. PROPOSED MAINLINE WITHIN 4' WIDE LANDSCAPE BED TO HUG THE INSIDE EDGE AS CLOSE AS POSSIBLE TO ALLOW FOR THE ADDITION OF VALVES AS WELL AS NOT TO DISRUPT PERIMETER HEDGE SPACING.
- 5. CONTRACTOR TO ASCERTAIN LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO EXCAVATION AND BE RESPONSIBLE FOR
- DAMAGE RESULTING FROM IRRIGATION OPERATIONS. 6. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THE SURVEY. CONTACT THE LOCAL UTILITY LOCATION SERVICES
- PRIOR TO COMMENCING CONSTRUCTION OPERATIONS.
- 7. CONTRACTOR SHALL VERIFY LOCATION OF IRRIGATION POINT OF CONNECTION.
- 8. IRRIGATION SYSTEM SHALL BE INSTALLED PER THE CITY OF CATOOSA CODES.
- 9. ALL LANDSCAPE AREAS SHALL BE IRRIGATED. SHRUB AND GROUND COVER AREAS SHALL BE IRRIGATED ON SEPARATE ZONES FROM LAWN AREAS, AND DRIP ZONES SHALL BE SEPARATE FROM SPRAY/ROTARY ZONES.
- 10. WORK TO INCLUDE DESIGN AND INSTALLATION OF AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM PROVIDING UNIFORM MOISTURE COVERAGE. ALL PIPES AND VALVES SHALL BE TRENCHED BELOW GRADE PER SPECIFICATIONS.
- 11. IRRIGATION SYSTEM SHALL CONSIST OF AN ELECTRIC SOLENOID CONTROLLED UNDERGROUND SPRINKLER SYSTEM OF PVC PIPE AND FITTINGS, WITH FIXED AND POP-UP HEADS IN A MULTI-STATION SYSTEM, PROGRAMMED AS APPROVED BY THE
- 12. CONTRACTOR TO FOLLOW DESIGN, SPECIFICATIONS, AND SPECIFIC MANUFACTURER'S RECOMMENDATIONS TO INSURE PROPER INSTALLATION OF THE IRRIGATION SYSTEM. CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM
- AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED DURING DESIGN. CONTRACTOR SHALL BRING SUCH OBSTRUCTIONS OR DIFFERENCES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, CONTRACTOR ASSUMES RESPONSIBILITY OF ALL REQUIRED REVISIONS.
- NOT. SLEEVES SHALL BE SIZED TWO (2) TIMES THE NOMINAL DIAMETER OF THE LARGEST PIPE PASSING THROUGH THE SLEEVE. MINIMUM SLEEVE SIZE SHALL BE 2". SLEEVES SHALL BE INSTALLED AT A MINIMUM COVER DEPTH OF EIGHTEEN (18") FROM FINISHED GRADE. COORDINATE HORIZONTAL AND VERTICAL ELEVATIONS WITH UTILITIES AND FOOTINGS. A SEPARATE MINIMUM 2" DIAMETER SLEEVE SHALL BE PROVIDED FOR THE CONTROL WIRES TO PASS THROUGH AT EACH CROSSING. THE CONTRACTOR SHALL RECEIVE THE OWNER REPRESENTATIVE'S APPROVAL FOR ALL REQUIRED BORES UNDER ROADS, PATHS
- 14. IF EXISTING IRRIGATION CONTROLLER IS NOT TO BE REUSED. CONTRACTOR TO INSTALL A NEW AUTOMATIC IRRIGATION CONTROLLER AT THE LOCATION APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL RECEIVE THE OWNER REPRESENTATIVE'S APPROVAL FOR SPECIFIC PLACEMENT PRIOR TO INSTALLATION. THE CONTRACTOR SHALL PROVIDE A 2" SCHEDULE 40 PVC CONDUIT FOR IRRIGATION CONTROL WIRES. THE IRRIGATION CONTRACTOR SHALL COORDINATE THE LOCATION OF THE 120 VOLT POWER SOURCE AND VERIFY ITS INSTALLATION PRIOR TO COMMENCING
- 15. ADJUST ALL HEADS TO MINIMIZE OVER SPRAY ONTO HARDSCAPE AND BUILDINGS. USE PCS SCREENS AS NEEDED ON SPRAY HEADS WITH 5'-15' SERIES MPR SPRAY NOZZLES TO ADJUST OVER SPRAY. USE RADIUS ADJUSTMENT SCREW ON 5'-15'
- 16. ALL SPRAY AND ROTARY HEADS SHALL BE INSTALLED PERPENDICULAR (90 DEGREES) TO FINISHED GRADE. 17. SPRAY SPRINKLER HEADS WITH CHECK VALVES SHALL BE REQUIRED TO PREVENT LOW HEAD DRAINAGE. CONTRACTOR
- 18. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE. WHERE PRACTICAL, IRRIGATION PIPING WILL ENTER THE DRIPLINE OF TREES DIRECTLY TOWARD
- 19. CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS TO THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE
- 20. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES HAVING VISITED THE SITE AND BECOME FAMILIAR WITH THE

SHRUB SPRAY IRRIGATION AREA

2" DIA. SCH. 40 PVC IRRIGATION MAINLINE LOOP WITH SCH. 40 SOLVENT-WELD PVC FITTINGS. EXACT ROUTE TO BE COORDINATED WITH OTHER SITE WORK.



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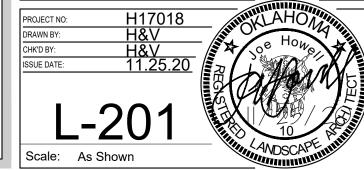
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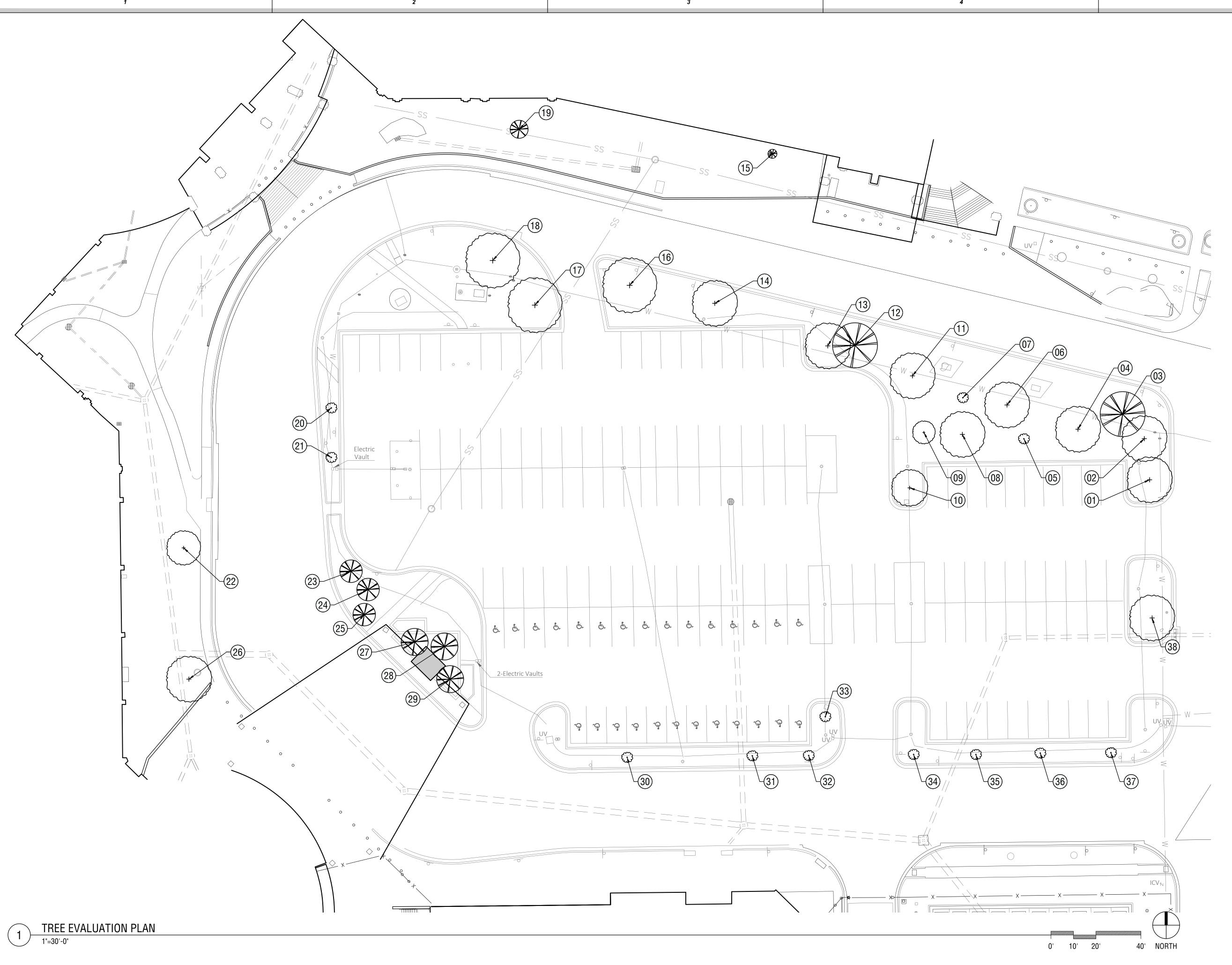
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GUITAR PICK PLAZA

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GUITAR PICK PLAZA IRRIGATION PLAN





TREE EVALUATION NOTES

- 1. CONTRACTOR TO ASCERTAIN LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO EXCAVATION AND BE RESPONSIBLE FOR DAMAGE RESULTING FROM PLANTING OPERATIONS. REPAIRS SHALL BE MADE AT NO COST TO THE OWNER.
- 2. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THE SURVEY. CONTACT THE LOCAL UTILITY LOCATION SERVICES
- PRIOR TO COMMENCING CONSTRUCTION OPERATIONS. 3. CONTRACTOR TO FIELD VERIFY DEPTH OF UTILITIES AND COORDINATE WITH THE OWNER'S REPRESENTATIVE WHICH TREES
- ARE A HIGHER RISK OF UTILITY DAMAGE. 4. TREE RELOCATION TO OCCUR IMMEDIATELY AFTER TREE EXCAVATION.
- 5. CONTRACTOR TO COORDINATE NEW LOCATIONS FOR TREES TO BE RELOCATED WITH OWNER'S REPRESENTATIVE AND STAKE PROPOSED LOCATIONS FOR APPROVAL PRIOR TO COMMENCING TREE EXCAVATION.
- 6. IN ORDER TO CAPTURE THE MAJORITY OF THE TREE'S ROOT SYSTEM, HOWELL & VANCUREN RECOMMENDS A MINIMUM 60"
- SPADE FOR TREES 4-1/2" CALIPER OR SMALLER AND A MINIMUM 90" SPADE FOR TREES 5" TO 9" CALIPER. 7. RELOCATED TREES SHALL BE THOROUGHLY WATERED AND FERTILIZED IMMEDIATELY AFTER INSTALLATION PER NEW TREE
- SPECIFICATIONS ON SHEET L-001. 8. BROKEN BRANCHES TO BE PROPERLY REMOVED ACCORDING TO US NURSERYMAN STANDARDS.
- 9. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES HAVING VISITED THE SITE AND BECOME FAMILIAR WITH THE CONDITIONS RELATED TO THE INSTALLATION OF SITE IMPROVEMENTS.

TREE EVALUATION KEY NOTES

				ENTIAL
KEY	NAME	SIZE	FOR RE	ELOCATION
1.	RED OAK	5.5"	GOOD	
2.	REDBUD	6"	GOOD	
3.	LOBLOLLY	8"	GOOD	
4.	RED OAK	6"	GOOD	
5.	CRAPE MYRTLE	2"	GOOD	
6.	RED OAK	6"	GOOD	
7.	CRAPE MYRTLE	2"	GOOD	
8.	RED OAK	5"	GOOD	
9.	CRAPE MYRTLE	2"	GOOD	
	RED OAK	5"	GOOD	
11.	CHINESE PISTACHE		GOOD	
12.	LOBLOLLY PINE	5"	GOOD	
13.	CHINESE PISTACHE	7"	GOOD	
14.	GINKO	6"	GOOD	
	BLUE ATLAS CEDAR		GOOD	
16.	CHINESE PISTACHE	8"	GOOD	
17.	RIVER BIRCH	3"	FAIR ((CONSIDER REMOVING SMALLEST TRUNK)
18.	RIVER BIRCH	3.5"	GOOD	
19.	RIVER BIRCH	1.5"	GOOD	
20.	CRAPE MYRTLE	2.5"	GOOD	
21.	CRAPE MYRTLE	2.5"	GOOD	
22.	RIVER BIRCH	4"	GOOD	
23.	BLUE ATLAS CEDAR	2"	GOOD	
24.	BLUE ATLAS CEDAR	2"	GOOD	
25.	BLUE ATLAS CEDAR	2"	GOOD	
26.	RIVER BIRCH	5"	P00R	(RECOMMEND TREE REMOVAL)
27.	BLUE ATLAS CEDAR	4.5"	N/A	(TREE TO REMAIN)
28.	BLUE ATLAS CEDAR	7"	N/A	(TREE TO REMAIN)
29.	BLUE ATLAS CEDAR	4.5"	N/A	(TREE TO REMAIN)
30.	CRAPE MYRTLE	2"	GOOD	
31.	CRAPE MYRTLE	2"	GOOD	
32.	CRAPE MYRTLE	2"	P00R	(RECOMMEND TREE REMOVAL)
33.	CRAPE MYRTLE	2"	GOOD	
34.	CRAPE MYRTLE	2"	GOOD	
35.	CRAPE MYRTLE	2"	GOOD	
36.	CRAPE MYRTLE	2"	GOOD	
37.	CRAPE MYRTLE	2"	GOOD	
~ ~	LACEBARK ELM	6"	GOOD	



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GUITAR PICK PLAZA TREE EVALUATION PLAN

