

GENERAL NOTES

1. ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS AND THE CITY OF DENTON STANDARD CONSTRUCTION SPECIFICATIONS.
2. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL BE FAMILIAR WITH THE PLANS, ALL NOTES, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, THE CITY STANDARDS FOR CONSTRUCTION, AND ANY OTHER APPLICABLE STANDARDS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
3. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSINGS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, AND FIRE HYDRANTS, ETC., CONTRACTOR TO ADJUST TO PROPER LINE AND GRADE PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING AND GRADING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING THE CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
5. PROTECT AND MAINTAIN ROADWAY TRAFFIC THROUGHOUT THE PROJECT, PROVIDING A MINIMUM OF ONE (1) LANE OPEN IN EACH DIRECTION; PROVIDE AND MAINTAIN INTERIM ACCESS FROM ROADWAYS CURRENTLY IN USE TO ALL DRIVEWAYS AND INTERSECTING STREETS OR ALLEYS; MAINTAIN NORMAL PROJECT DRAINAGE UNTIL NEW DRAINAGE FACILITIES ARE FUNCTIONAL, INCLUDING, WHERE NECESSARY, INTERIM REPLACEMENT OF EXISTING DRAINAGE STRUCTURES REMOVED FOR CONSTRUCTION OF NEW DRAINAGE FACILITIES; MAINTAIN ALL WORK AND MATERIAL STORAGE AREAS IN ORDERLY CONDITION, FREE OF DEBRIS AND WASTE. ON COMPLETION OF CONSTRUCTION, CLEAN UP THE PROJECT AND ADJACENT AFFECTED AREAS TO ACCEPTABLE CONDITION, ALL AS PROVIDED IN THE GENERAL CONDITIONS.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION, BONDS AND CONTRACTS SHALL BE SUBMITTED TO THE CITY AS REQUIRED.
7. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING TRENCH SAFETY.
8. EXACT SAWCUT PAVEMENT REMOVAL AND REPLACEMENT LIMITS WITHIN THE PUBLIC RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH THE CITY PAVEMENT REPAIR MANUAL AND INCLUDED IN THE BASE BID.
9. BARRICADING AND PROJECT SIGNS SHALL CONFORM TO TEXAS DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND LATEST UPDATES.
10. TREES, SHRUBS AND EXISTING AMENITIES TO REMAIN ARE TO BE PROTECTED AND ARE NOT TO BE REMOVED FROM THE WORK SITE. DAMAGE TO THESE SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
11. CONTRACTOR SHALL PROTECT EXISTING FENCES, RETAINING WALLS, AND EXISTING IMPROVEMENTS ON PRIVATE AND CITY PROPERTY WITHIN LIMITS OF WORK. DAMAGES DUE TO CONTRACTORS ACTION SHALL BE REPAIRED OR REPLACED AT CONTRACTORS EXPENSE.
12. CONTRACTOR SHALL BE RESPONSIBLE TO RESET BENCHMARKS AFFECTED BY CONSTRUCTION AT NO COST TO OWNER.
13. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS, SIDEWALKS, AND EXISTING TRAIL ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION AT ALL TIMES.
14. THE USE OF WOOD FORMS FOR PAVEMENT CONSTRUCTION WILL BE PERMITTED.
15. ALL CONCRETE SHALL BE IN COMPLIANCE WITH THE SPECIFIED CLASSES OF CONCRETE IN THE STANDARD SPECIFICATIONS 5.8 "PORTLAND CEMENT CONCRETE PAVEMENT" AND 7.4.5 "QUALITY OF CONCRETE" AS AMENDED BY THE ADDENDUM TO THE NORTH CENTRAL TEXAS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - DECEMBER 1998. ALL OTHER CONCRETE NOT SPECIFIED IN THESE SPECIFICATIONS AND PROVISION OR IN THE PLANS AND SPECIFICATIONS SHALL BE CLASS A, DRY KILN, PORTLAND CEMENT CONCRETE.
16. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.
17. WHEN PLACING PROP. TRAIL ADJACENT TO EXIST. PAVEMENT, SAWCUT EXIST. PAVEMENT IF NO EXPANSION JOINT IS LOCATED AT THE CUT LINE. MATCH GRADES OF PAVEMENT TOWARDS EXIST. PAVEMENT CURB TO PROVIDE POSITIVE DRAINAGE AND CONSTRUCT UNDERCUT HEADERS PER PAVING DETAILS INDICATED IN THESE PLANS.
18. ALL CONSTRUCTION PROJECTS IN COPPELL ARE REQUIRED TO HAVE A COPY OF THE 2014 STANDARD CONSTRUCTION DETAILS ON THE JOB SITE AT ALL TIMES.

DIMENSIONING & LAYOUT GENERAL NOTES

1. WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
2. ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION OR INSTALLATION.
3. CONTRACTOR SHALL VERIFY ALL UTILITIES SHOWN ON THE PLANS AS WELL HAVE THE SITE UTILITIES LOCATED ON THE GROUND PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. IN THE EVENT THAT THE CONTRACTOR DISCOVERS AN UNDERGROUND UTILITY THAT IS NOT REPRESENTED WITHIN THE CONSTRUCTION DOCUMENTS OR AS MARKED ON THE SITE, HE SHALL IMMEDIATELY CONTACT THE OWNER'S REPRESENTATIVE TO DETERMINE NEXT STEPS PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE AREA OF THE NEWLY DISCOVERED UNDERGROUND UTILITY.
4. THE CONTRACTOR SHALL EXAMINE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILS.
5. ALL DIMENSIONS ARE TO BACK OF CURB AND FACE OF BUILDING UNLESS OTHERWISE NOTED.
6. HANDICAP RAMPS TO BE LOCATED AND INSTALLED AS SHOWN IN DRAWINGS. CONTRACTOR SHALL ENSURE THAT ALL ADA GUIDELINES ARE FOLLOWED.
7. REINFORCEMENT SHALL BE PROVIDED IN THE CONCRETE IMPROVEMENTS AS SHOWN WITHIN THE CONSTRUCTION DETAILS AND SPECIFICATIONS AND SHALL BE INSTALLED CONTINUOUS THROUGH CONTROL JOINTS, AND PER DETAIL DRAWINGS FOR THE EXPANSION JOINTS.
8. EXPANSION JOINT AND CONTROL JOINT SPACING SHALL BE LOCATED AS SHOWN ON PLANS AND DETAILS.
9. CONTRACTOR SHALL PROVIDE AN EXPANSION JOINT WHERE PROPOSED CONCRETE MEETS EXISTING WALKS OR CURBS.
10. GRADING IMPROVEMENTS HAVE BEEN DESIGNED WITH THE INTENT OF THE FOLLOWING GUIDELINES:

- ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% IN THE DIRECTION OF THE DOWNHILL SIDE.
- THE RUNNING SLOPE OF THE WALKS SHALL BE NO GREATER THAN 5%.
- ALL GRADES SHALL BE FINISHED TO A SMOOTH, FLOWING CONTOUR, MAINTAINING FLOW PATTERNS THAT ALLOW THE WATER TO FLOW FROM PLANTED AREAS, ACROSS PAVED AREAS TO DRAINAGE COLLECTION POINTS AS DEPICTED IN THE CONSTRUCTION DOCUMENTS.

11. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION ACTIVITIES FOR THE PROJECT. ACCUMULATION OF STANDING WATER WILL NOT BE PERMITTED.
12. THE CONTRACTOR IS TO LOCATE, DOCUMENT, AND PROTECT ALL CONTROL BENCH MARKS THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.

PLANTING NOTES

1. ALL PLANTS SHALL BE SET OUT FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
2. FINE GRADING SHALL BE PERFORMED IN ALL AREAS TO BE LANDSCAPED. FINE GRADING SHALL INCLUDE THE REMOVAL OF DEBRIS, ROCKS, ETC. FROM THE SITE AND INSURE POSITIVE DRAINAGE IN ALL AREAS.
3. THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND EASEMENTS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES DURING THE COURSE OF CONSTRUCTION.
4. WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
5. IT IS PREFERABLE THAT NO TREE BE STAKED. HOWEVER, CONDITIONS AND PLANT MATERIAL SIZE MAY NECESSITATE STAKING. THE OWNER'S REP SHALL DETERMINE IF SUPPORT IS NEEDED AND SHALL DIRECT THE CONTRACTOR ACCORDINGLY. ALL TREE STAKING ABOVE AND BELOW THE SURFACE SHALL BE REMOVED IN THERE ENTIRETY INCLUDING THE SECURING HARDWARE (STRAPS, WHIRES, METAL SPIKES, ETC.) ONE YEAR AFTER TREE IS PLANTED.
6. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS ASSOCIATED WITH THE LANDSCAPE AND ACCESSORIES.
7. ALL PLANT MATERIALS SHALL MEET ANSI Z60.1 STANDARDS FOR CALIPER, HEIGHT AND ROOT BALL SIZE. ANY MATERIALS THAT DO NOT MEET OR EXCEED SUCH STANDARDS SHALL BE REJECTED AND REPLACED AT THE CONTRACTORS EXPENSE.
8. BALLED AND BURLAPPED TREES SHALL HAVE THE TOP HALF OF THE WIRE BASKET REMOVED. THE BURLAP SHALL BE REMOVED TO THE GREATEST EXTENT POSSIBLE, USING A KNIFE TO CUT AND REMOVE THE BOTTOM HALF UNDER THE WIRE BASKET THAT REMAINS.
9. ROOT BARRIERS HALL BE RIGID PLASTIC THAT COMPLIES WITH CITY OF DENTON REQUIREMENTS AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. ROOT BARRIERS SHALL BE INSTALLED WHEN ROOT BALL IS LOCATED WITHIN 5' OF PAVEMENT.
10. QUANTITIES SHOWN FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES.

PAVING GENERAL NOTES

1. ALL DIMENSIONS ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL CONCRETE SHALL CONFORM TO MCTCOS ITEM 303.3.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
3. ALL FILL PLACED UNDER PAVING SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 6 INCH LIFTS, UNLESS OTHERWISE NOTED. REFER TO STRUCTURAL SPECIFICATIONS FOR FILL PLACED BENEATH BUILDING AREAS. ALL OTHER FILL AREAS TO BE COMPACTED TO 90% STANDARD PROCTOR.
4. THE CONTRACTOR SHALL SUBMIT A JOINT SPACING PLAN TO THE ENGINEER FOR APPROVAL. EXPANSION JOINT SPACING SHALL BE 90' MAXIMUM EACH WAY WITH NO KEYWAYS AND SAWED DUMMY JOINTS SHALL BE 15' EACH WAY, UNLESS OTHERWISE NOTED.
5. TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED AT THE END OF EACH DAY'S PAVING AND WHERE INTERRUPTIONS SUSPEND OPERATIONS FOR 30 MINUTES OR MORE.
6. ALL PAVEMENTS TO BE REMOVED SHALL BE SAWCUT TO A NEAT LINE, MINIMUM 1-1/2" DEEP, AND THE PAVEMENT REMOVED IN SUCH A MANNER AS TO PRESERVE THE EXISTING TRANSVERSE REINFORCING STEEL TO THE MAXIMUM EXTENT POSSIBLE.
7. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE PAVEMENT AND HAVE THE SAME COMPRESSIVE STRENGTH.
8. PAVEMENT REINFORCEMENT SHALL BE #3 BARS, SPACED AT 18 INCHES CENTER TO CENTER EACH WAY EXCEPT WHERE OTHERWISE NOTED IN THE PLANS.
9. BAR LAPS SHALL BE 30 DIAMETERS IN LENGTH.
10. ALL STRIPES SHALL BE 4 INCHES WIDE, UNLESS OTHERWISE NOTED.
11. INSTALLATION AND PLACEMENT OF IRRIGATION SLEEVES AND UTILITY CONDUITS SHALL BE IN ACCORDANCE WITH LANDSCAPE ARCHITECT AND MEP PLANS.
12. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN 5% (UNLESS OTHERWISE NOTED) AND A CROSS SLOPE NO GREATER THAN 2%.

POLLUTION CONTROL GENERAL NOTES

1. THIS PLAN HAS BEEN PREPARED TO PROVIDE MEANS TO PREVENT OR MINIMIZE POLLUTION OF STORM WATER.
2. THE CONSTRUCTION ACTIVITY INCLUDED IN THIS PLAN WILL INCLUDE:
 - 2.A. CLEARING AND GRUBBING
 - 2.B. ROUGH GRADING
 - 2.C. FINAL GRADING
 - 2.D. UTILITY INSTALLATION
 - 2.E. PAVEMENT INSTALLATION
3. THE TOTAL ESTIMATED LAND AREA TO BE DISTURBED IS 1.025 ACRES.
4. THE ESTIMATED RUNOFF COEFFICIENT FOR THE PROJECT IS 0.70.
5. THE STORM WATER EXITING THE SITE IS COLLECTED IN AN EXISTING DRAINAGE SYSTEM MAINTAINED BY THE CITY OF DENTON, TEXAS.
6. THE SOILS ON THE SITE ARE GENERALLY BIOME-URBAN LAND COMPLEX AND WILSON-URBAN LAND COMPLEX.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION PROTECTION AROUND THE WORK AREA PERIMETER AND AT ALL INLET MOUTHS PRIOR TO COMMENCING WORK AND UNTIL THE WORK AREA HAS BEEN STABILIZED.
8. THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE.
9. ALL DISTURBED AREAS WHICH WILL NOT BE RE-DISTURBED MUST BEGIN BEING STABILIZED IMMEDIATELY BY THE CONTRACTOR TO CONTROL EROSION TO THE EXTENT OF EACH WORK DAY. STABILIZATION AND EROSION CONTROL DEVICES IN PLACE.
10. THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE SITE.
 - 1.1. THE CONTRACTOR MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS REGARDING SEDIMENT AND EROSION CONTROL.
 - 1.2. A COPY OF THIS PLAN, AS PART OF THE SWPPP, MUST BE KEPT AT THE CONSTRUCTION FACILITY DURING THE ENTIRE CONSTRUCTION PERIOD.
 - 1.3. CONSTRUCTION SEQUENCING MUST PROVIDE FOR THE EXCAVATION OF AN ON-SITE BASIN AS A SEDIMENT COLLECTION BASIN PRIOR TO THE DISTURBANCE OF GREATER THAN 1.0 ACRES OF LAND.
 - 1.4. ALL FINISHED GRADES ARE TO BE HYDROMULCHED, SPOT SODDED OR SEEDED AND WATERED UNTIL GROWTH IS ESTABLISHED ON AND OFF-SITE.
 - 1.5. A PIT OR WASH OUT BASIN SHALL BE CONSTRUCTED ON-SITE BY THE CONTRACTOR FOR THE "WASH OUT" OF CONCRETE TRUCKS.
 - 1.6. A BERM OR OTHER SPILL PROTECTION MEASURE SHALL BE USED FOR ANY TEMPORARY FUEL STORAGE TANK ON-SITE.
 - 1.7. IF "SUMP" PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, FILTER THE DISCHARGE TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER LEAVES THE SITE.
 - 1.8. TO PREVENT DAMAGE TO VEGETATION IN DOWNSTREAM WATER COURSES, LIMIT ANY PROPOSED LIME STABILIZATION OPERATIONS TO THAT WHICH CAN BE MIXED AND COMPACTED BY THE END OF EACH WORK DAY. GEOTEXTILE FABRIC IS NOT EFFECTIVE IN FILTERING LIME SINCE THE GRAIN SIZE IS SMALLER THAN THE OPENING IN THE FABRIC.
 - 1.9. VEHICLE PARKING AREAS, STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THE AREAS WITH PROTECTIVE MEASURES SHALL BE NECESSARY.
 20. STORE ALL TRASH AND BUILDING MATERIALS WASTE IN AN ENCLOSURE UNTIL IT CAN BE PROPERLY DISPOSED OF AT THE APPROPRIATE OFF-SITE FACILITIES.
 21. TRACKING OF SEDIMENT OFF-SITE BY TRUCK TRAFFIC SHALL BE HANDLED THROUGH REGULAR CLEANING.
 22. INSPECTIONS SHALL BE CONDUCTED BY THE PERMITEE ONCE EVERY TWO WEEKS AND WITHIN 24 HOURS AFTER STORM EVENT OF 0.5 INCHES OR MORE OR ONCE PER WEEK ON A SPECIFIC PRE-DEFINED DAY. THE INSPECTIONS WILL INCLUDE:
 - 22.A. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN STABILIZED.
 - 22.B. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
 - 22.C. STRUCTURAL CONTROL MEASURES.
 - 22.D. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
 - 22.E. IDENTIFICATIONS OF MEASURES THAT NEED TO BE MAINTAINED, MODIFIED, OR ADDED TO CORRECT PROBLEMS.
 23. CONTRACTOR SHALL MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORMWATER.
 24. PERMANENTLY STABILIZE EXPOSED SOIL, WITHIN AND ADJACENT TO THE SITE, THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION ACTIVITIES.
 25. CONTAIN ALL RUNOFF FROM MATERIAL USED IN SUBGRADE STABILIZATION.
 26. MATERIAL STOCKPILES SHALL BE COVERED BY PLASTIC OR SURROUNDED BY EROSION CONTROL STRUCTURES TO CONTROL SEDIMENT RELEASES.
 27. CONTRACTOR SHALL PROTECT SLOPES IN EXCESS OF 1.5% IN ORDER TO MINIMIZE EROSION OF SOILS AND THE DISTURBANCE OF SLOPES.
 28. VEGETATION TO BE PRESERVED WHERE EVER POSSIBLE TO HELP REDUCE EROSION. WHERE VEGETATION MUST BE REMOVED, PRESERVE NATIVE TOPSOIL IN ALL AREAS POSSIBLE.
 29. MINIMIZE SOIL COMPACTION IN AREAS INTENDED FOR POST CONSTRUCTION PVIOUS SURFACE.

DEMOLITION NOTES

1. CONTRACTOR IS TO REVIEW ALL GENERAL NOTES PRIOR TO BEGINNING WORK.
2. REMOVE ALL EXISTING PAVEMENT AND STRUCTURES WITHIN THE LIMITS OF DEMOLITION UNLESS OTHERWISE NOTED.
3. SAWCUT AND REMOVE ALL EXISTING DRIVE APPROACHES (WITHIN THE LIMITS OF DEMOLITION) TWO FEET FROM BACK OF CURB. SIDEWALKS, PAVEMENT, AND UTILITIES WITHIN THE PUBLIC RIGHT-OF-WAY ARE TO REMAIN UNLESS OTHERWISE NOTED.
4. CONSULT THE DIMENSIONAL CONTROL PLAN. VERIFY THE PORTION OF EXISTING CONCRETE CURBS AND PAVEMENT WHICH ARE TO REMAIN.
5. COORDINATE WITH LOCAL POWER, TELEPHONE, CABLE, AND GAS COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES.
6. UTILITIES SHOULD BE CUT AND PLUGGED IN ACCORDANCE WITH THEIR RESPECTIVE UTILITY COMPANY REQUIREMENTS AND PRIOR TO DEMOLITION OF THE EXISTING BUILDINGS.
7. CONTRACTOR TO PLUG ALL EXISTING EXPOSED ENDS OF ABANDONED UTILITIES.
8. CONTRACTOR TO DETERMINE SOURCE OF ALL EXPOSED UTILITIES AND, IF REQUIRED, RECONNECT TO PROPOSED UTILITIES.
9. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF ALL THE UNSUITABLE MATERIALS OR MATERIALS NOT SPECIFICALLY IDENTIFIED FOR SALVAGE OR REUSE FROM THE PROJECT SITE. CONTRACTOR SHALL CONTACT ALL LOCAL AUTHORITIES TO DETERMINE DISPOSAL REQUIREMENTS.
10. TREES ON THE PROPERTY SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS UNLESS OTHERWISE NOTED. THE TREE PROTECTION SHALL BE PLACED AROUND TREES PRIOR TO ANY DEMOLITION OR GRADING. TREE PROTECTION SHALL REMAIN UNTIL ALL WORK IS COMPLETED. REFER TO LS-2.12 FOR TREE REMOVAL AND PROTECTION DETAILS.
 - 1.1. ANY DAMAGE DONE TO EXISTING TREE CROWNS OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY BY AN APPROVED TREE SURGEON AT THE OWNER'S DIRECTION. ROOTS EXPOSED AND/OR DAMAGED DURING DEMOLITION AND/OR GRADING OPERATIONS SHALL BE CUT OFF CLEANLY INSIDE THE EXPOSED OR DAMAGED AREA, PAINT CUT SURFACES WITH AN APPROVED TREE PAINT, AND TOPSOIL AND MULCH PLACED OVER THE EXPOSED ROOT AREA IMMEDIATELY.
12. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING EROSION CONTROL MEASURES ON THE SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS UNTIL THE SITE HAS BEEN STABILIZED.
13. CONTRACTOR IS RESPONSIBLE FOR SECURITY OF THE SITE DURING DEMOLITION ACTIVITIES AND UNTIL SUBSTANTIAL COMPLETION.
14. ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS AND CITY STANDARD CONSTRUCTION SPECIFICATIONS.
15. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITY MAINS, MANHOLES, CLEANOUTS, VALVE BOXES, AND FIRE HYDRANTS, ETC. IN THE AREA OF DEMOLITION.
16. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING TRENCH SAFETY.
17. BARRICADING AND PROJECT SIGNS SHALL CONFORM TO TEXAS DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND LATEST UPDATES.
18. CONTRACTOR WILL PROVIDE ON-SITE PARKING FOR WORKERS. VEHICLE PARKING WILL NOT BE ALLOWED WITHIN THE PUBLIC RIGHT-OF-WAY.
19. CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING ADEQUATE DUST CONTROL MEASURES DURING DEMOLITION ACTIVITIES.
20. CONTRACTOR IS TO COORDINATE DEMOLITION ACTIVITIES WITH THE HAZARDOUS MATERIAL ABATEMENT CONTRACTORS' ACTIVITIES, IF APPLICABLE.
21. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL TEMPORARY UTILITY SERVICES REQUIRED TO COMPLETE THE SCOPE OF WORK.
25. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF THE TEMPORARY CONSTRUCTION TRAILER AND TEMPORARY SPOILS PILES. DETERMINED LOCATIONS TO BE APPROVED BY OWNER.

TREE PROTECTION NOTES

1. ALL TREES SHOWN ON THIS PLAN TO BE RETAINED SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING;
2. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION, INCLUDING TYPES OF FENCING AND SIGNAGE;
3. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT;
4. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIFLINES OR ROOT DAMAGE;
5. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIFLINE) OR CRZ, WHICHEVER IS GREATER; AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT TREE DAMAGE:
 - A. SOIL COMPACTION IN ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIAL;
 - B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 3 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY URBAN FORESTER;
 - C. WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT; AND,
 - D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, FIRES, AND ANCHORING TO TREE TRUNK.
6. EXCEPTIONS TO INSTALLING TREE FENCES AT THE TREE DRIFLINES OR CRZ, WHICHEVER IS GREATER, MAY BE PERMITTED IN THE FOLLOWING CASES:
 - A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, OR TREE WELL;
 - B. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN EIGHT FEET (8') TO THE BUILDING;
7. WHEN ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN FIVE FEET (5') TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT FEET (8') - OR TO THE LIMITS OF LOWER BRANCHING - IN ADDITION TO THE REDUCED FENCING PROVIDED;
8. WHERE ANY OF THE ABOVE EXCEPTION RESULTS IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE DRIFLINE OR CRZ, WHICHEVER IS GREATER, THOSE AREAS SHALL BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION;
9. ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA;
10. ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY LIGHT TOP SOIL WITHIN 24 HOURS. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 24 HOURS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZED WATER LOSS DUE TO EVAPORATION;
11. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIFLINES, A CLEAN CUT SHALL BE MADE BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A TRENCHING MACHINE OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS;
12. ALL TREES IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OR HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES;
13. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF THE TREE USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE ROOT ZONE;
14. INSTALLATION OF LANDSCAPE IRRIGATION WITHIN THE CRZ OF PROTECTED TREES SHALL BE INSTALLED BY HAND DIGGING WITH NO ROOT OVER 1" IN DIAMETER BEING CUT;
15. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN THREE INCHES (3") SHALL BE PERMITTED WITHIN THE DRIFLINE OR CRZ, WHICHEVER IS GREATER, OF TREES. NO TOPSOIL OR MULCH IS PERMITTED ON ROOT FLARES OF ANY TREE;
16. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO STANDARDS AS OUTLINED IN AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATION - TREE SHRUB AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICE (ANSI R300-1995);
17. THE CITY URBAN FORESTER HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION; AND,
18. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED. SEE SECTION 3.4.3 OF THIS MANUAL FOR APPROPRIATE REMOVAL METHODS.
19. DEVIATIONS FROM THE ABOVE MAY BE CONSIDERED VIOLATIONS IF THERE IS SUBSTANTIAL NONCOMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.

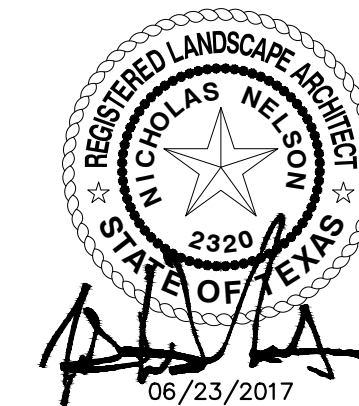
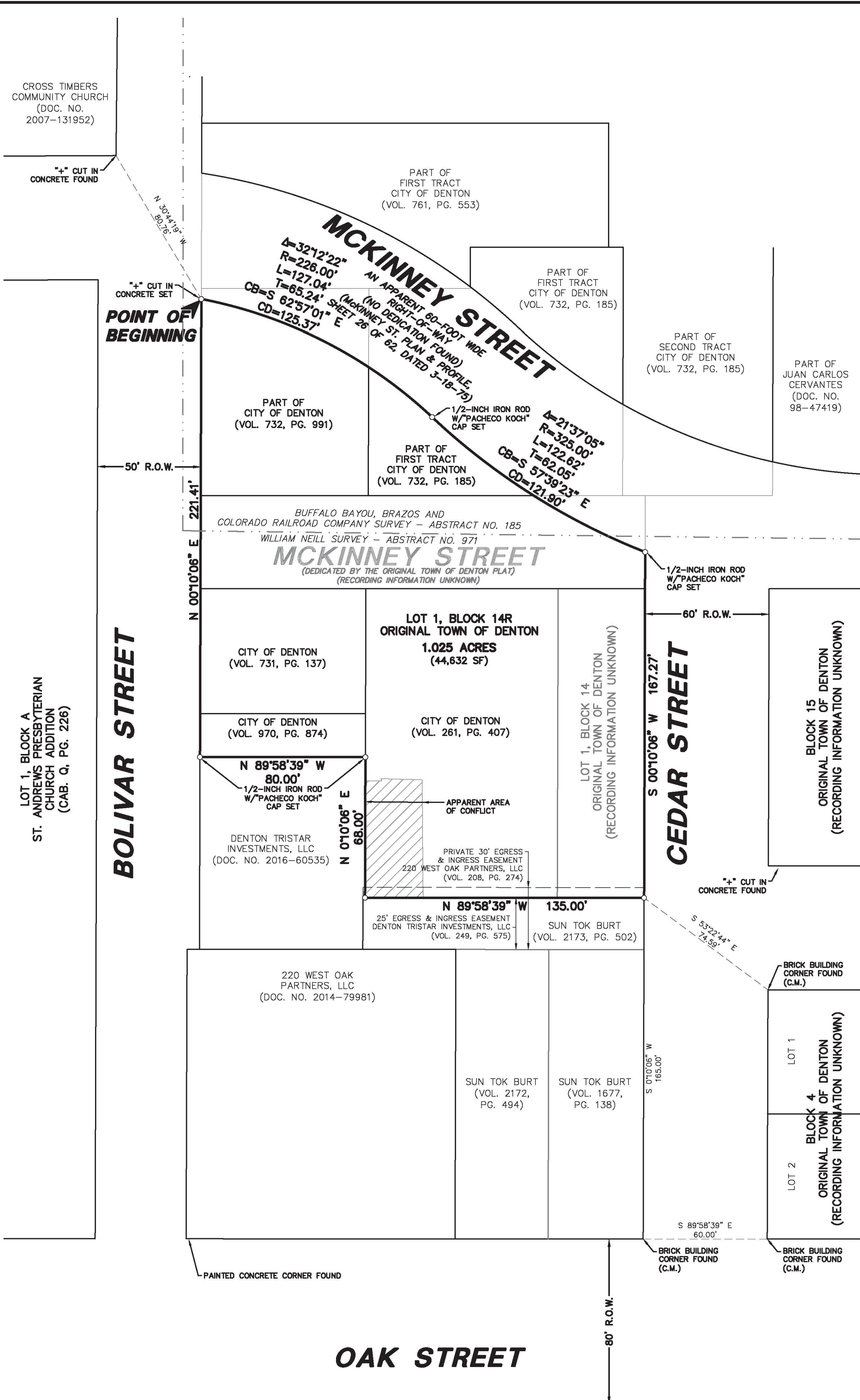


EXHIBIT B-GENERAL NOTES					
OLD CENTRAL PARKING LOT					
217 W MCKINNEY ST					
DENTON CENTRAL BUSINESS DISTRICT					
CITY OF DENTON, DENTON COUNTY, TEXAS					
		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824			
		DRAWN BY	CHECKED BY	SCALE	DATE
CRR	NGN	1"=20'	JUNE 2017	EX-B	

OLD CENTRAL PARKING LOT



OWNER'S ACKNOWLEDGMENT AND DEDICATION

STATE OF TEXAS
COUNTY OF DENTON

WHEREAS, the City of Denton is the owner of a 1.025 acre tract of land situated in the Buffalo Bayou, Brazos and Colorado Railroad Company Survey, Abstract No. 185 and the William Neill Survey, Abstract No. 971, in the City of Denton, Denton County, Texas; said tract being all of Lot 1, Block 14, Original Town of Denton, recording information unknown, part of McKinney Street (a 45-foot wide right-of-way, dedicated by said plat of the Original Town of Denton) and all of those tracts of land described in Warranty Deeds to City of Denton recorded in Volume 261, Page 407; Volume 731, Page 137; Volume 732, Page 99; Volume 732, Page 185 and Volume 970, Page 874 all of the Deed Records of Denton County, Texas; said 1.025 acre tract being more particularly described as follows:

BEGINNING, at 4" cut in concrete set at the intersection of the south right-of-way line of McKinney Street (an apparent 60-foot wide right-of-way, by use and occupation, no dedication found as shown on McKinney St. Plan & Profile, sheet 26 of 82, Dated 3-18-75) and the east right-of-way line of Bolivar Street (a 50-foot wide right-of-way); said point being the beginning of a curve to the right; from said point a 4" cut in concrete found at the intersection of the north right-of-way line of said McKinney Street and the west right-of-way line of said Bolivar Street bears North 30 degrees, 44 minutes, 19 seconds West, a distance of 80.76 feet;

THENCE, in a southeasterly direction, along the said south line of McKinney Street and said curve to the right, having a central angle of 32 degrees, 12 minutes, 22 seconds, a radius of 228.00 feet, a chord bearing and distance of South 62 degrees, 57 minutes, 01 seconds East, 125.37 feet, an arc distance of 127.04 feet to a 1/2-inch iron rod with a "PACHECO KOCH" cap set for the beginning of a reverse curve to the left;

THENCE, continuing in a southeasterly direction, along the said south line of McKinney Street and said curve to the left, having a central angle of 21 degrees, 37 minutes, 05 seconds, a radius of 325.00 feet, a chord bearing and distance of South 57 degrees, 39 minutes, 23 seconds East, 121.90 feet, an arc distance of 122.82 feet to a 1/2-inch iron rod with a "PACHECO KOCH" cap set at the end of said curve; said point being at the intersection of the said south line of McKinney Street and the west right-of-way line of Cedar Street (a 60-foot wide right-of-way);

THENCE, South 00 degrees, 10 minutes, 06 seconds West, along the said west line of Cedar Street, a distance of 167.27 feet to a point for corner; said point being the southeast corner of said Lot 1;

THENCE, North 00 degrees, 10 minutes, 06 seconds East, a distance of 68.00 feet to a 1/2-inch iron rod with a "PACHECO KOCH" cap set for corner;

THENCE, North 89 degrees, 58 minutes, 39 seconds West, a distance of 80.00 feet to a 1/2-inch iron rod with a "PACHECO KOCH" cap set for corner in the said east line of Bolivar Street;

THENCE, North 00 degrees, 10 minutes, 06 seconds East, along the said east line of Bolivar Street, a distance of 221.41 feet to the POINT OF BEGINNING;

CONTAINING: 44,632 square feet or 1.025 acres of land, more or less.

and designated herein as the LOT 1, BLOCK 14R, ORIGINAL TOWN OF DENTON subdivision to the City of Denton, Texas and whose name is subscribed hereto, hereby dedicate to the use of the public forever all streets, alleys, parks, water courses, drains, easements, rights-of-way and public places thereon shown for the purpose and consideration therein expressed.

City of Denton

By: _____
Name: _____

STATE OF TEXAS
COUNTY OF DENTON

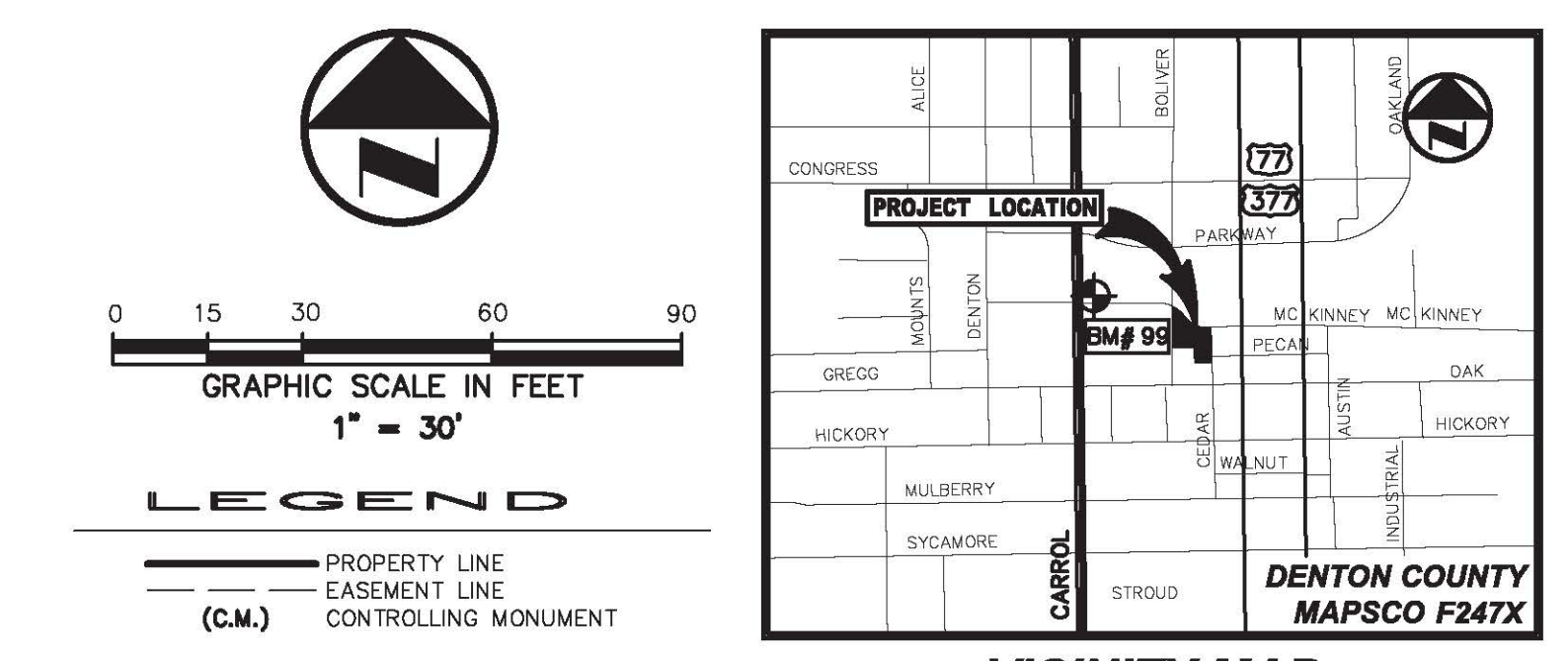
BEFORE ME, the undersigned, a Notary Public in and for the County and State, on this day personally appeared _____ known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed, and in the capacity therein.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the ____ day of _____, 2016.

Notary Public in and for the State of Texas
My Commission Expires: _____

PRELIMINARY

THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.
RELEASED 9/29/16.



NOTES

- Bearing system for this survey is based on the Texas Coordinate System of 1983 (2011 adjustment), North Central Zone 4202, based on observations made on April 13, 2016 with a combined scale factor of 1.00015063.
- Subject property is shown on the National Flood Insurance Program Flood Insurance Rate Map for Denton County, Texas and Incorporated Areas, Map No. 48121C0360G, Community-Panel No. 480774 0360 G, Effective Date: April 18, 2011. All of the subject property is shown to be located in Zone "X" on said map. Relevant zones are defined on said map as follows:
Zone "X" - Other Areas: Areas determined to be outside the 0.2% annual chance floodplain.
- The purpose of this plat is to create one lot.

APPROVED BY THE DEVELOPMENT REVIEW COMMITTEE ON THIS _____ DAY OF _____, 2016

CHAIRPERSON, DEVELOPMENT REVIEW COMMITTEE _____

CITY SECRETARY _____

CERTIFICATE OF SURVEYOR

STATE OF TEXAS
COUNTY OF TARRANT

I, Michael Cleo Billingsley, Registered Professional Land Surveyor, do hereby certify that the plat shown hereon accurately represents the property as determined by an on the ground survey, made under my direction and supervision on _____, 2016, and that all corners are shown hereon;

PRELIMINARY

THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.
RELEASED 9/29/16.

Michael Cleo Billingsley
Registered Professional Land Surveyor No. 6558



STATE OF TEXAS
COUNTY OF TARRANT

BEFORE ME, the undersigned, a Notary Public in and for the County and State, on this day personally appeared Michael Cleo Billingsley, known to me to be the person and officer whose name is subscribed to the foregoing instrument and acknowledged to me that the same was the act of said Michael Cleo Billingsley and that he executed the same as the act of such corporation for the purposes and consideration therein expressed, and in the capacity therein.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the ____ day of _____, 2016.

Notary Public in and for the State of Texas
My Commission Expires: _____

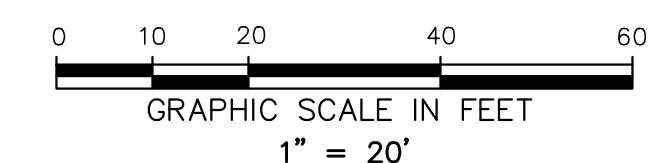
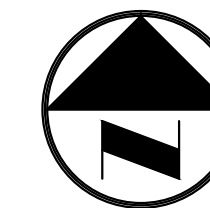
MINOR PLAT
LOT 1, BLOCK 14R
ORIGINAL TOWN
OF DENTON

LOCATED IN THE CITY OF DENTON, TEXAS
AND BEING OUT OF THE
BUFFALO BAYOU, BRAZOS AND COLORADO
RAILROAD COMPANY SURVEY, ABSTRACT NO. 185 AND
THE WILLIAM NEILL SURVEY, ABSTRACT NO. 971,
DENTON COUNTY, TEXAS

Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824	
DRAWN BY	CHECKED BY	SCALE	DATE
RMT	MCB	1"=30'	09/29/2016
		JOB NUMBER	3778-16.157

SURVEYOR:
PACHECO KOCH, LLC
6100 WESTERN PLACE, STE 1001
FORT WORTH, TX 76107
817-412-7155
CONTACT: MICHAEL BILLINGSLEY

OWNER:
CITY OF DENTON
215 E. MCKINNEY STREET
DENTON, TX 76201
940-349-8200
CONTACT:



LEGEND

B	BOLLARD	- - -	APPROXIMATE RIGHT-OF-WAY LINE
CO	CLEANOUT	-X-	FENCE
EV	ELECTRIC VAULT	-OL-	OVERHEAD UTILITY LINE
FH	FIRE HYDRANT	-E-	UNDERGROUND ELECTRIC LINE
FP	FLAG POLE	-G-	UNDERGROUND GAS LINE
FL	FLOOD LIGHT	-S-	STORM DRAIN LINE
GM	GAS METER	-W-	WATER LINE
GT	GREASE TRAP	-SS-	SANITARY SEWER LINE
LS	LIGHT STANDARD	-C-	EXIST. CONTOUR
PBE	PULL BOX ELECTRIC	612.39	EXIST. SPOT ELEV.
PP	POWER POLE	612.39	EXIST. TOP OF CURB ELEV.
SI	TRAFFIC SIGN	611.92	EXIST. GUTTER ELEV.
SM	STORM SEWER MANHOLE	612.39	EXIST. TOP OF STEP ELEV.
SS	SAN. SEWER MANHOLE	611.92	EXIST. BOTTOM OF STEP ELEV.
ST	STORM SEWER MANHOLE	612.39	EXIST. TOP OF VALVE ELEV.
TEL	TELEPHONE MANHOLE	611.92	EXIST. TOP OF NUT ELEV.
WM	WATER METER	612.39	EXIST. TOP OF WALL ELEV.
WV	WATER VALVE	611.92	EXIST. BOTTOM OF WALL ELEV.
20	PAINT MARK RED		
Y	PAINT MARK YELLOW		

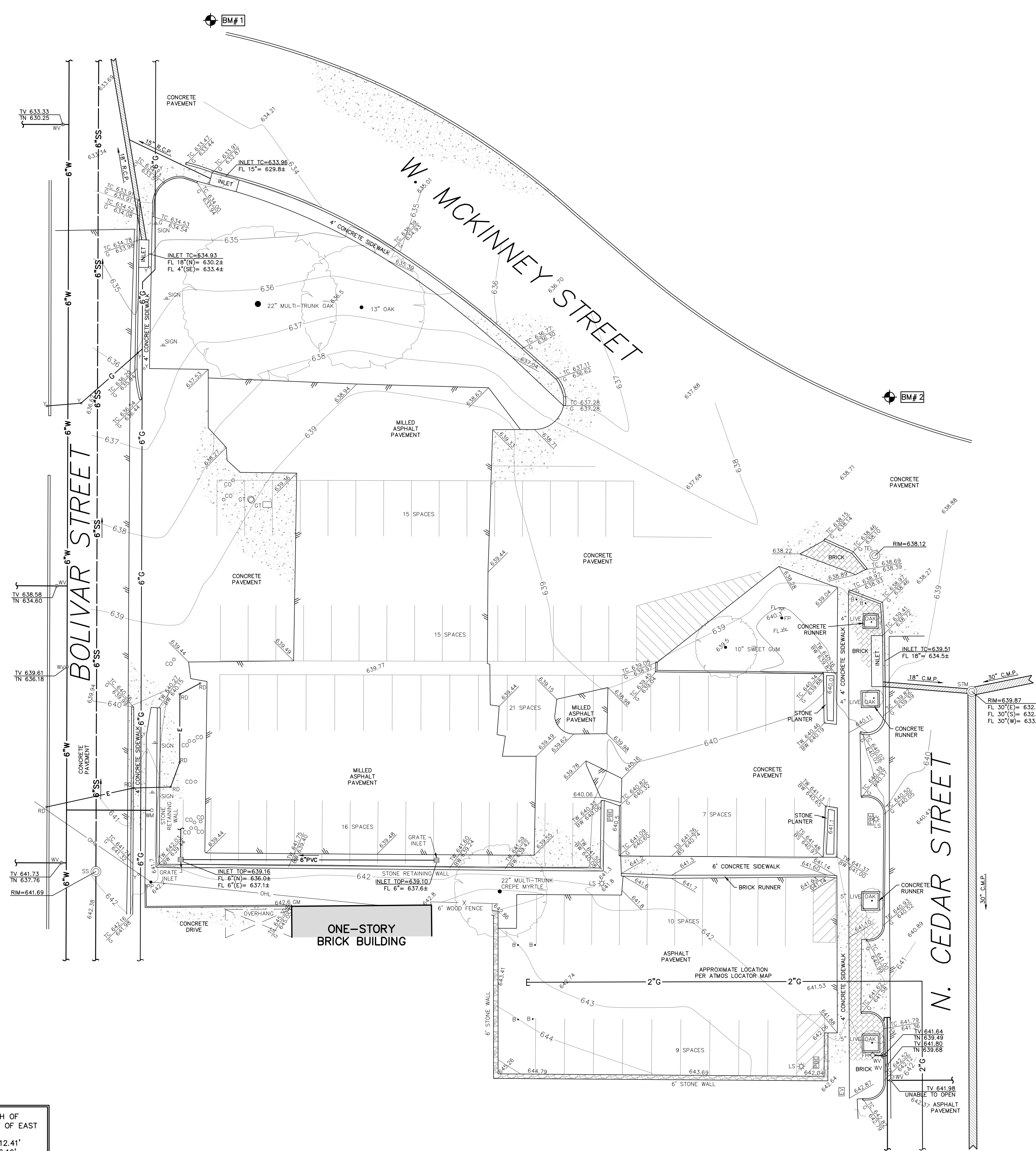


VICINITY MAP
(NOT TO SCALE)

NOTES

- Bearing system for this survey is based on the Texas Coordinate System of 1983 (2011 adjustment), North Central Zone 4202, based on observations made on April 13, 2016 with a combined scale factor of 1.00015063.
- Subject property is shown on the National Flood Insurance Program Flood Insurance Rate Map for Denton County, Texas and Incorporated Areas, Map No. 4812100360G, Community-Panel No. 480774.0360 G, Effective Date: April 18, 2011. All of the subject property is shown to be located in Zone "X" on said map. Relevant zones are defined on said map as follows:

Zone "X" - Other Areas: Areas determined to be outside the 0.2% annual chance floodplain.
- This topographic map and the survey upon which it is based have been prepared and performed in accordance with the United States National Map Accuracy Standards for vertical accuracy.
- All underground utility information depicted on the survey is based on available record information on file at the City of Denton and the appropriate public utility companies. This information has been verified where possible by visible utility appurtenances. The surveyor cannot guarantee the accuracy or completeness of these records. Lacking excavation, the exact location of underground utilities cannot be accurately, completely and reliably depicted. Where additional or more detailed information is required, the client is advised that excavation may be necessary. The Surveyor has contacted the Texas One Call System (DigTess) and depicted hereon the visible and apparent markings on the ground as a result of locate #560772469.
- This survey does not provide a determination or opinion concerning the location or existence of wetlands, faultlines, toxic or hazardous waste areas, subsidence, subsurface and environmental conditions or geological issues. No statement is made concerning the suitability of the subject tract for any intended use, purpose or development.
- Except as specifically stated or shown on this plat, this survey does not purport to reflect any of the following which may be applicable to the subject tract: easements; building setback lines; restrictive covenants; subdivision restrictions; zoning or other land-use regulations; Agreements; Lease Agreements; and ownership title evidence.



BENCH MARK LIST

BM#1	"+" CUT SET ON NORTHEAST CORNER OF INLET, ±3' NORTH OF NORTH CURBLINE OF W. MCKINNEY STREET AND ±23' EAST OF EAST CURBLINE OF BOLIVAR STREET. NORTHING= 7129512.41' EASTING= 2386276.16' ELEV= 633.59'
BM#2	MAG NAIL WITH WASHER SET ±5' NORTH OF NORTH CURBLINE OF W. MCKINNEY STREET AND ±2' EAST OF WEST CURBLINE OF N. CEDAR STREET. NORTHING= 7129390.66' EASTING= 2386495.58' ELEV= 638.33'
BM#99	CITY OF DENTON BRONZE CAP FOUND AT THE NORTHWEST CORNER OF AN INLET ON THE NORTH SIDE OF W. MCKINNEY STREET, BETWEEN BOLIVAR STREET AND N. CARROLL BOULEVARD. ELEV= 632.07'

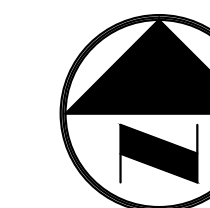
As of the date of this survey, PHONE had not responded regarding locations and sizes of their respective service lines in the area. Locations of all utilities should be verified prior to any construction activities.



EXHIBIT D-EXISTING CONDITIONS	
OLD CENTRAL PARKING LOT	
217 W MCKINNEY ST	
DENTON CENTRAL BUSINESS DISTRICT	
CITY OF DENTON, DENTON COUNTY, TEXAS	
Pacheco Koch	6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824
DRAWN BY MCB/RS	CHECKED BY RMT
SCALE 1"=20'	DATE SEPT 2016
NO. EX-D	

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OLD CENTRAL PARKING LOT



LEGEND

- BOLLARD
 - CLEANOUT
 - ELECTRIC VAULT
 - ⊕ FIRE HYDRANT
 - ⚡ FLAG POLE
 - ⊕ FLOOD LIGHT
 - ⊕ GAS METER
 - ⊕ GREASE TRAP
 - ⊕ LIGHT STANDARD
 - ⊕ PULL BOX ELECTRIC
 - ⊕ POWER POLE
 - ⊕ TRAFFIC SIGN
 - ⊕ SAN. SEWER MANHOLE
 - ⊕ STORM SEWER MANHOLE
 - ⊕ TELEPHONE MANHOLE
 - ⊕ WATER METER
 - ⊕ WATER VALVE
 - ⊕ PAINT MARK RED
 - ⊕ PAINT MARK YELLOW
- APPROXIMATE RIGHT-OF-WAY LINE
 - X- FENCE
 - OHL- OVERHEAD UTILITY LINE
 - U- UNDERGROUND ELECTRIC LINE
 - G- UNDERGROUND GAS LINE
 - SD- STORM DRAIN LINE
 - W- WATER LINE
 - SS- SANITARY SEWER LINE
 - G-1.3- EXIST CONTOUR
 - G-1.2.39- EXIST SPOT ELEV.
 - G-6.12.39- EXIST TOP OF CURB ELEV.
 - G-6.11.39- EXIST GUTTER ELEV.
 - S-6.12.39- EXIST TOP OF STEP ELEV.
 - S-6.11.39- EXIST BOTTOM OF STEP ELEV.
 - TV-6.12.39- EXIST TOP OF VALVE ELEV.
 - TV-6.11.39- EXIST TOP OF NUT ELEV.
 - TW-6.12.39- EXIST TOP OF WALL ELEV.
 - TW-6.11.39- EXIST BOTTOM OF WALL ELEV.
- ▨ AREA OF DISTURBANCE
 - TREE PROTECTION FENCE, REF. 7/EX-M2

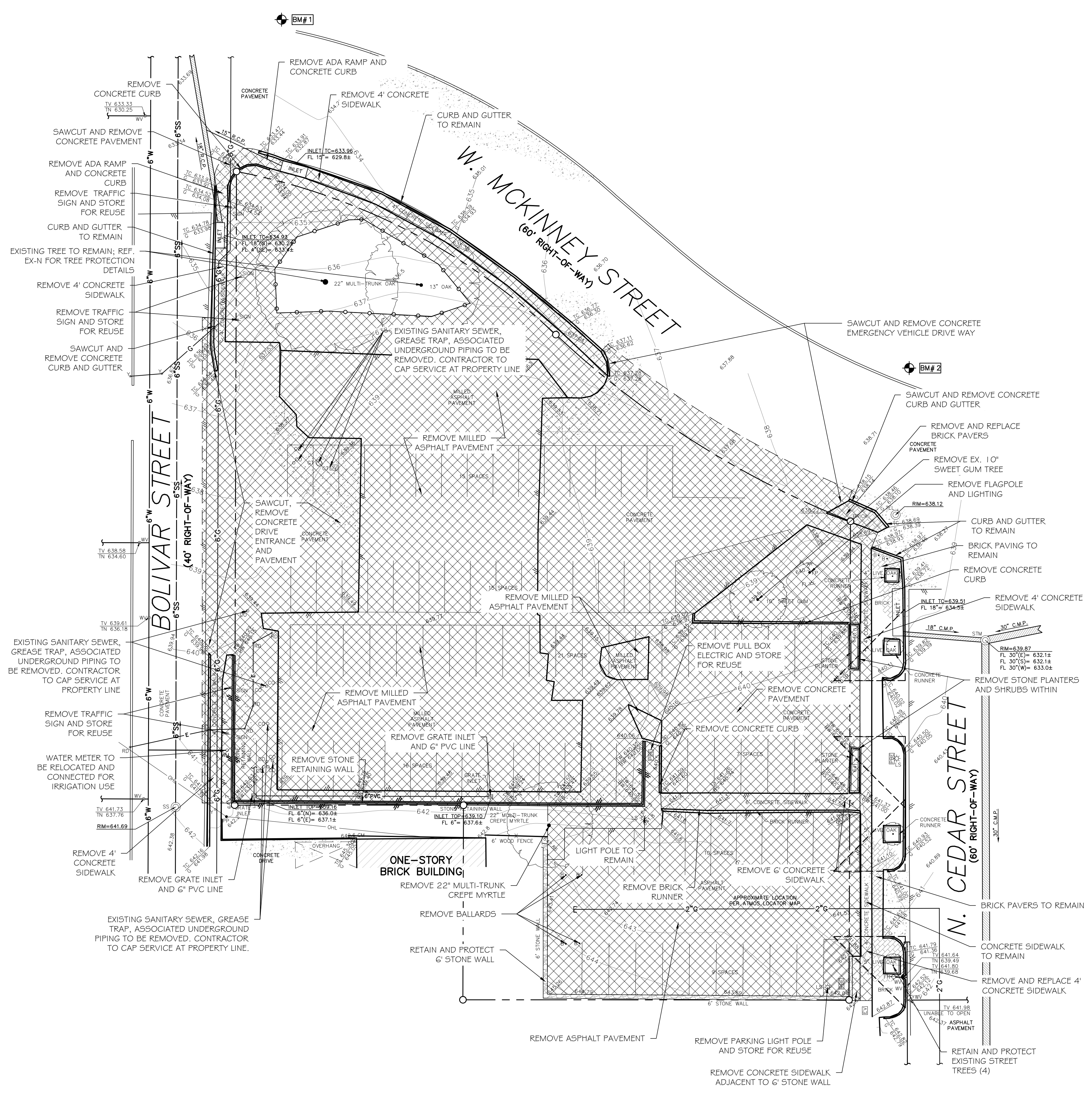
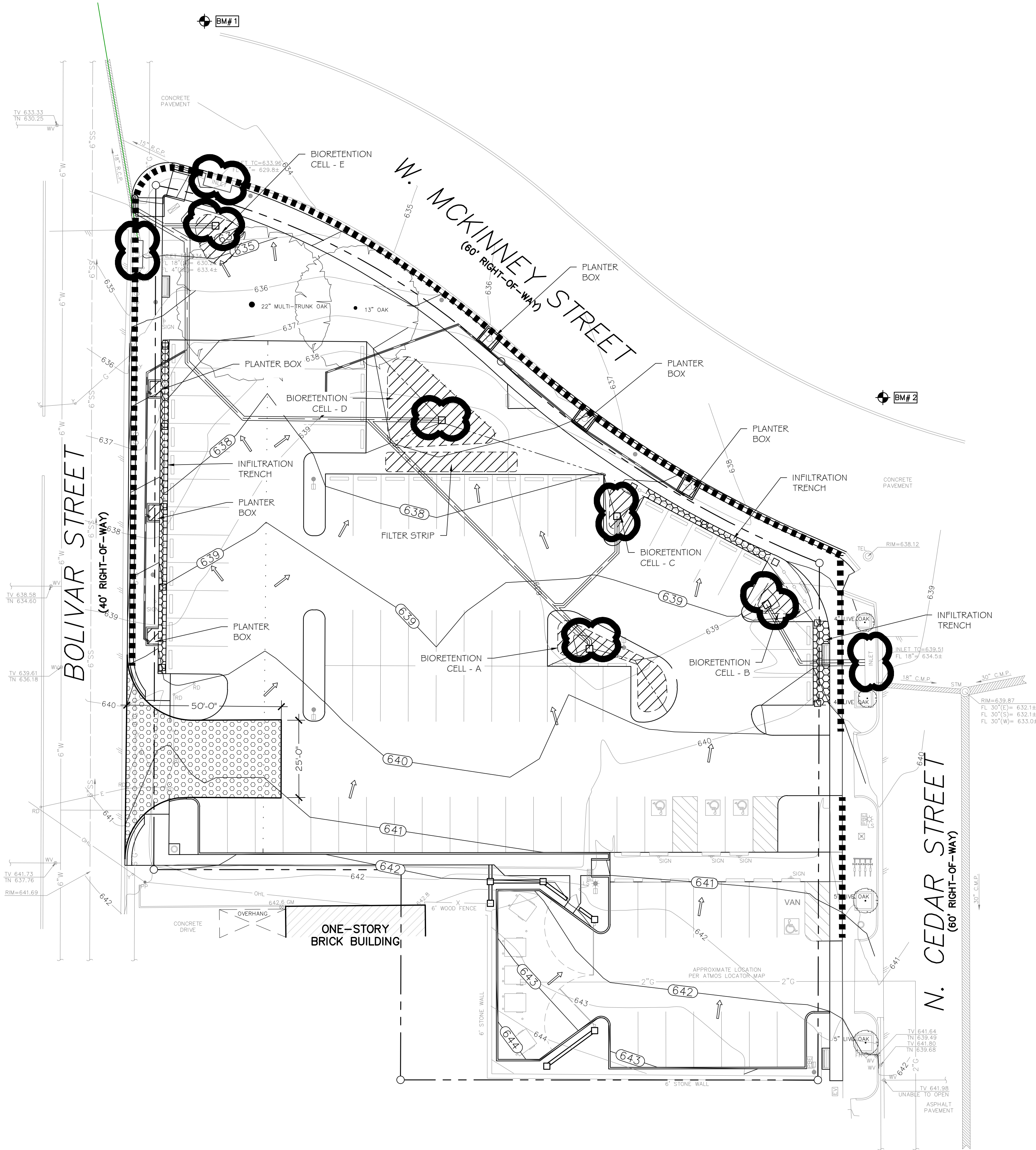
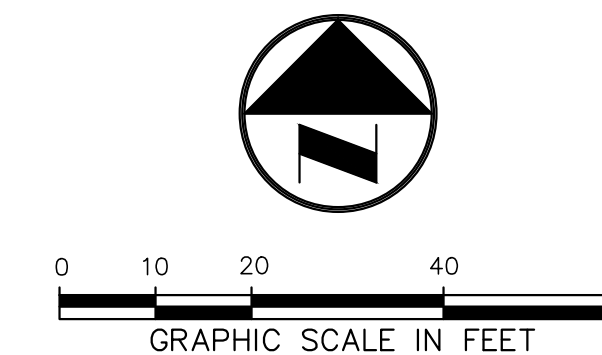


EXHIBIT E-DEMOLITION PLAN				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY CRR	CHECKED BY NGN	SCALE 1"=20'	DATE JUNE 2017	NO. EX-E

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OLD CENTRAL PARKING LOT



LEGEND

- PROPOSED DRAINAGE FLOW DIRECTION
- PROPOSED CONSTRUCTION ENTRANCE
- INLET PROTECTION
- SILT FENCE (LIMITS OF DISTURBED AREA)
- BEST MANAGEMENT PRACTICES FEATURE - AREAS TO RECEIVE INFILTRATION MEDIA PER DETAIL 1/EX-M3
- BEST MANAGEMENT PRACTICES FEATURE - INFILTRATION TRENCH PER DETAIL 3/EX-M3

BIORETENTION SYSTEM MAINTENANCE	
ACTIVITY	FREQUENCY
A record should be kept of the time to drain for the system completely after a storm event. The system should drain completely within 72 hours.	After every major storm in the first few months, then biannually
Check to insure the filter surface remains well draining after storm events. Remedy: If filter bed is clogged, draining poorly, or standing water covers more than 15% of the surface 48 hours after a precipitation event, then remove top few inches of discolored material. Till or rake remaining material as needed.	
Check inlets and outlets for leaves and debris. Remedy: Rake in and around the system to clear it of debris. Also, clear the inlet and overflow if obstructed.	Quarterly initially, biannually, frequency adjusted as needed after 3 inspections
Check for animal burrows and short circuiting in the system. Remedy: Soil erosion from short circuiting or animal burrows should be repaired when they occur. The holes should be filled and lightly compacted.	
Check to insure the filter bed does not contain more than 2 inches accumulated material. Remedy: Remove sediment as necessary. If 2 inches or more of filter bed has been removed, replace media with either a cobble mulch or a (50% sand, 20% woodchips, 20% compost, 10% soil) mixture.	
During extended periods without rainfall, inspect plants for signs of distress. Remedy: Plants should be watered until established (typical only for first few months) or as needed thereafter.	Annually
Inspect inlets and outlets to ensure good condition and no evidence of deterioration. Check to see if high-flow bypass is functioning. Remedy: Repair or replace and damaged structural parts, inlets, outlets, sidewalks.	
Check for dead or dying plants, and general long term plant health. Remedy: This vegetation should be cut and removed from the system. If woody vegetation is present, care should be taken to remove dead or decaying plant material. Separation of herbaceous vegetation rootsock should occur when overcrowding is observed.	As needed

BIORETENTION CELL: STORMWATER TREATMENT VOLUMES

BIORETENTION AREA	SURFACE AREA (SF)	DEPTH (in)	VOLUME OF RUNOFF (gallons)*
A	321 SF	6"	1200 gal
B	110 SF	6"	411 gal
C	71 SF	6"	262 gal
D	662 SF	6"	2475 gal
E	120 SF	6"	677 gal

* TEXAS A&M AGRILIFE EXTENSION, "STORMWATER MANAGEMENT: RAINWATER HARVESTING"



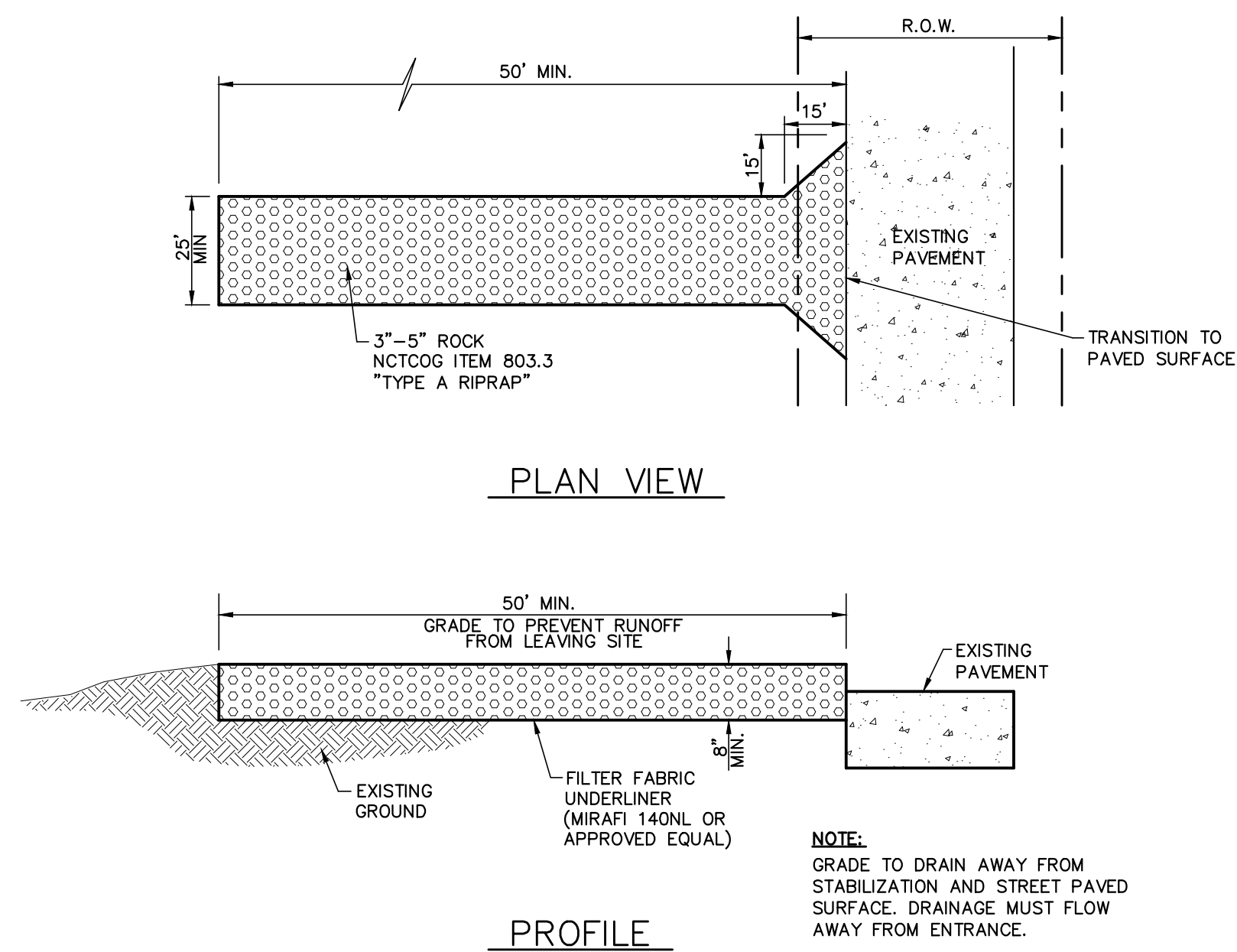
EXHIBIT F1-EROSION CONTROL PLAN
OLD CENTRAL PARKING LOT
 217 W MCKINNEY ST
 DENTON CENTRAL BUSINESS DISTRICT
 CITY OF DENTON, DENTON COUNTY, TEXAS

Pacheco Koch 6100 WESTERN PLACE, SUITE 1001
 FORT WORTH, TX 76107 817.412.7155
 TX REG. ENGINEERING FIRM F-14439
 TX REG. SURVEYING FIRM LS-10193824

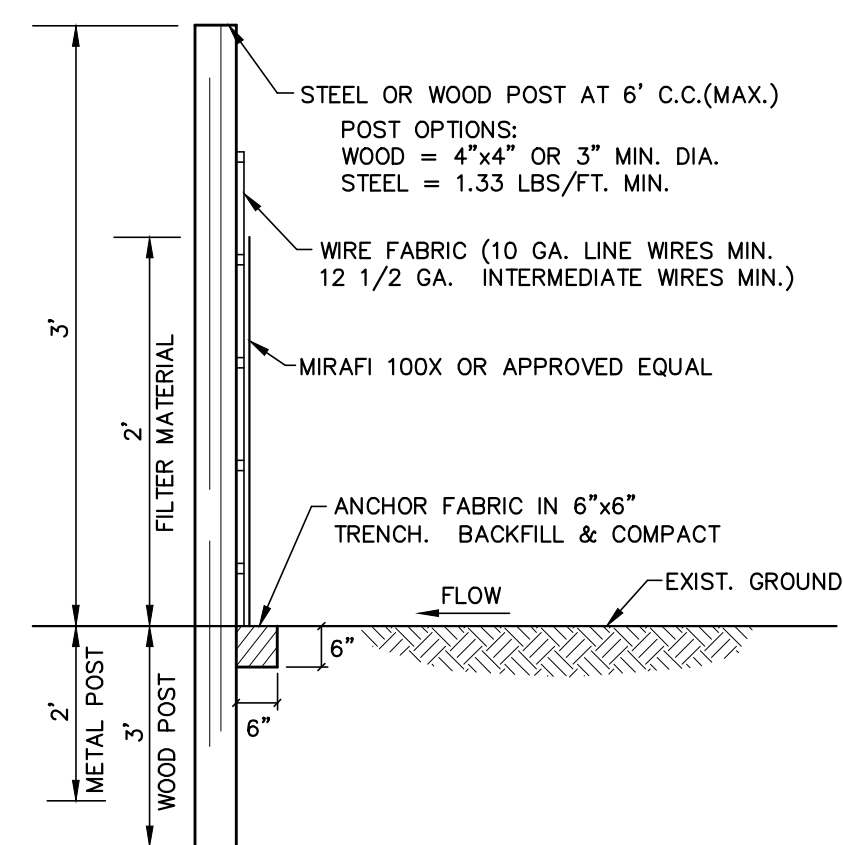
DRAWN BY CRR	CHECKED BY NGN	SCALE 1"=20'	DATE JUNE 2017	NO. EX-F1
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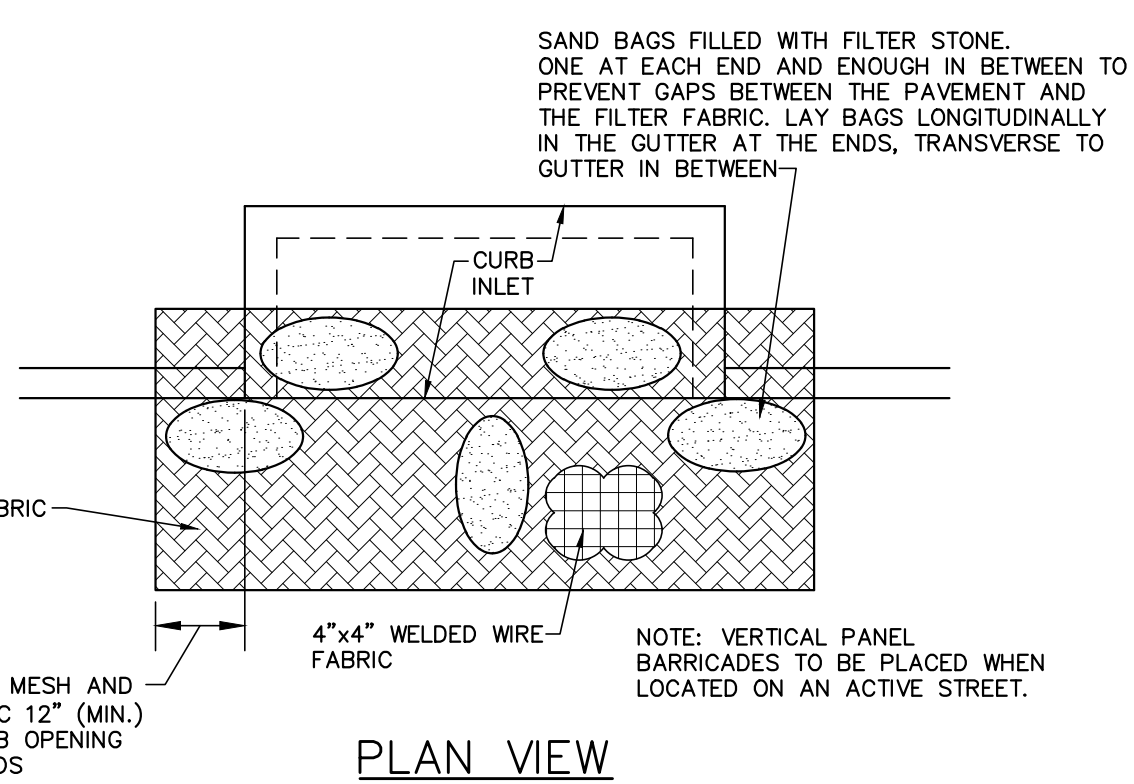
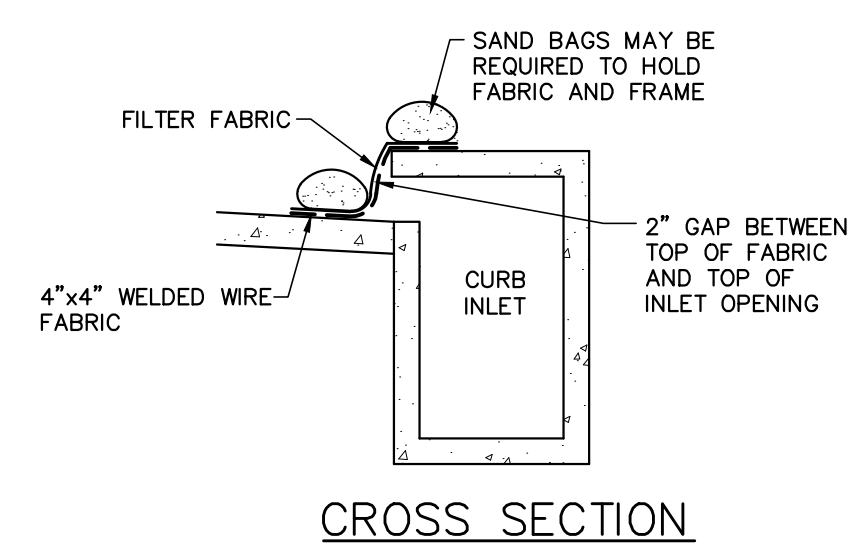
OLD CENTRAL PARKING LOT



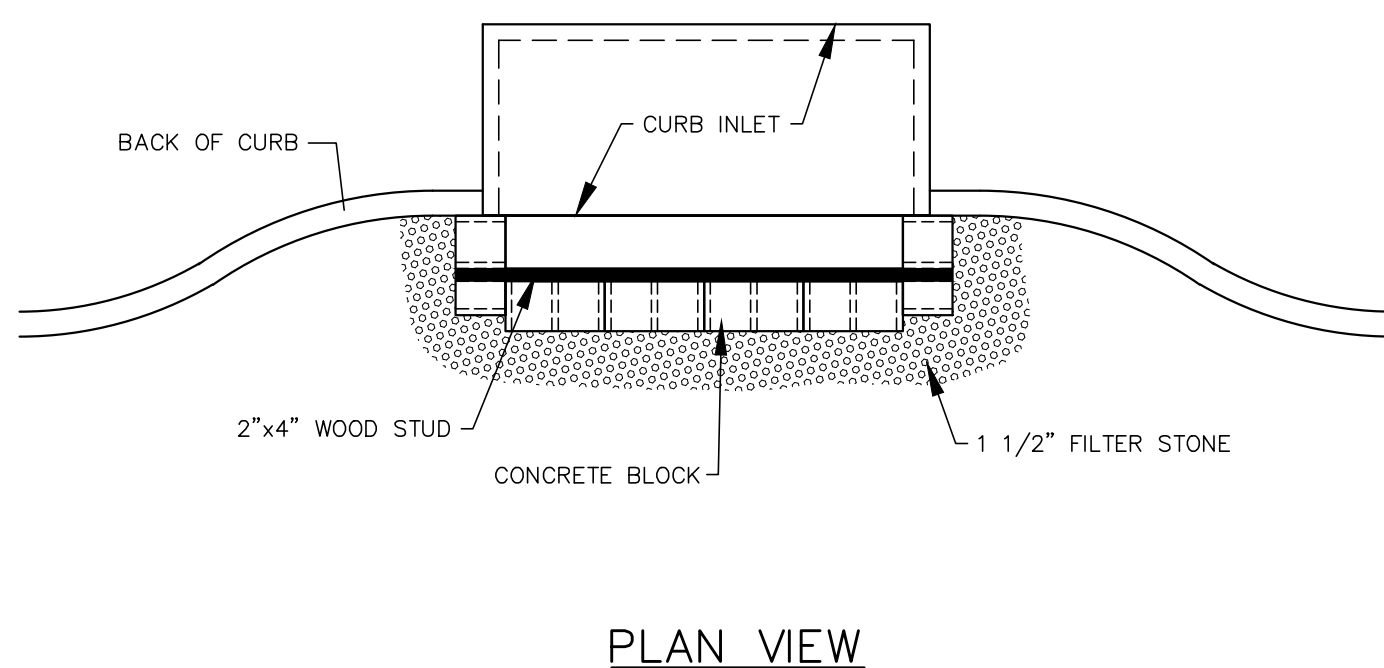
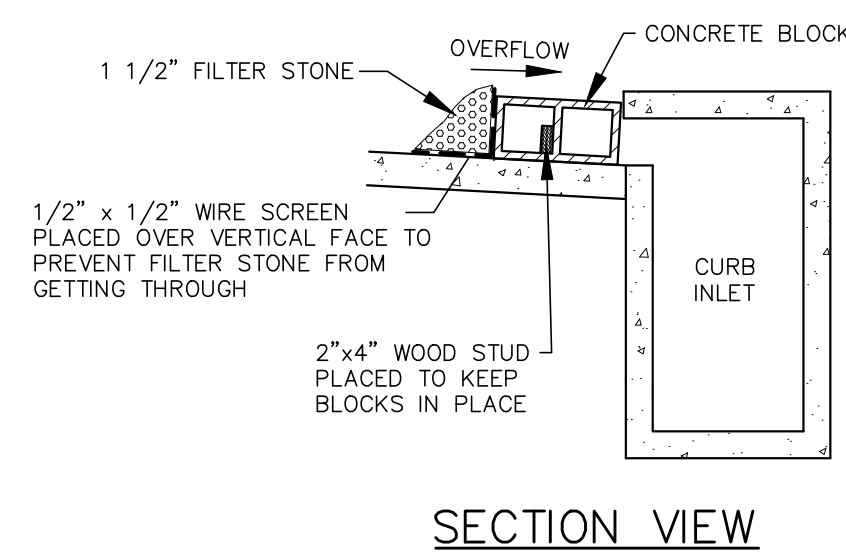
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NOT TO SCALE



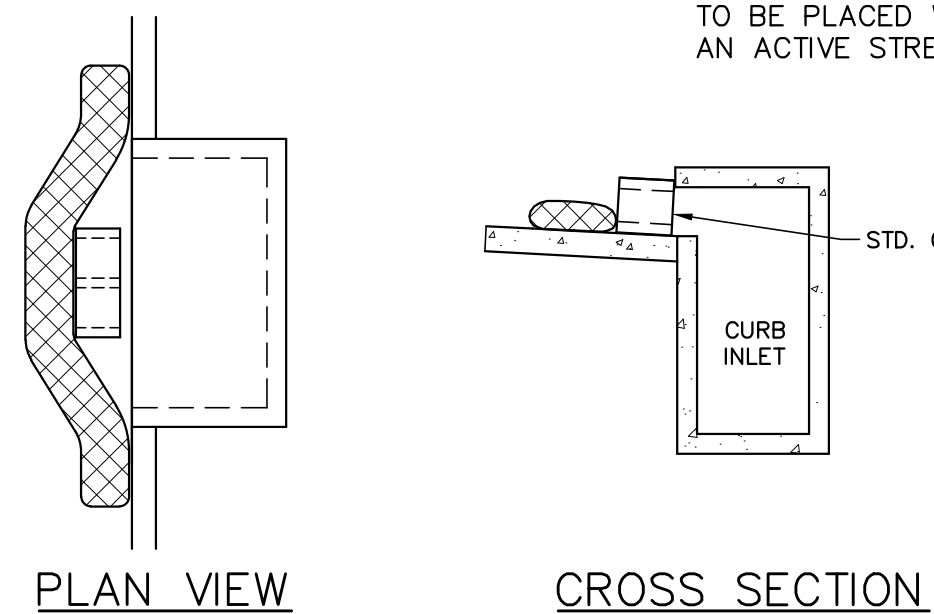
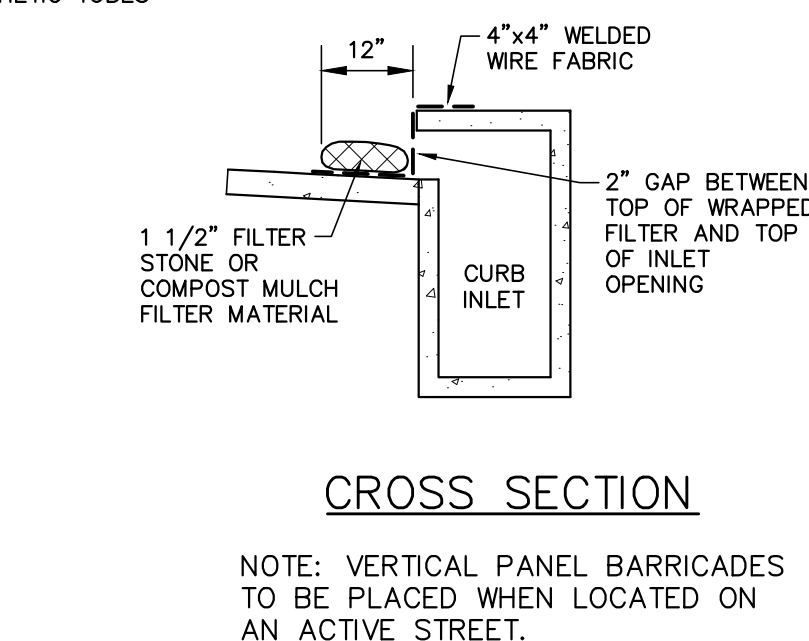
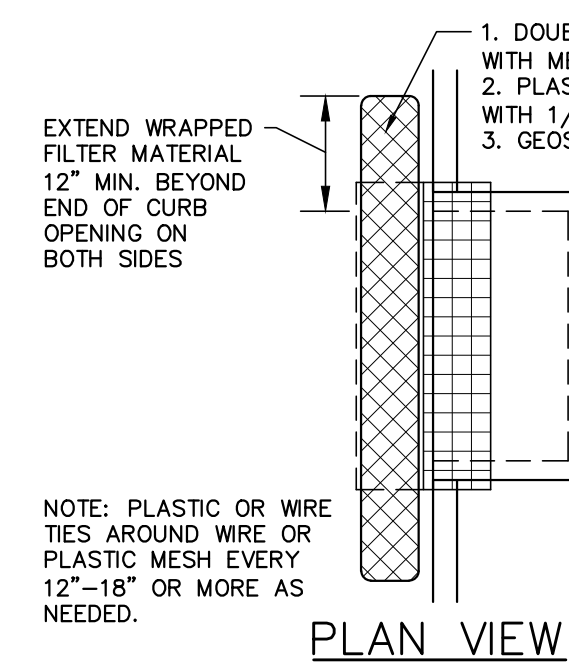
2 SILT FENCE
NOT TO SCALE



3 CURB INLET PROTECTION
NOT TO SCALE



4 CURB INLET PROTECTION
NOT TO SCALE



ALTERNATE SUPPORT FOR TYPE A CURB INLET PROTECTION

5 CURB INLET PROTECTION
NOT TO SCALE

CURB OPENING	MIN. NO. BLOCKS
4'-6"	1
8'-10"	2
12'-14"	3
16'-20"	4

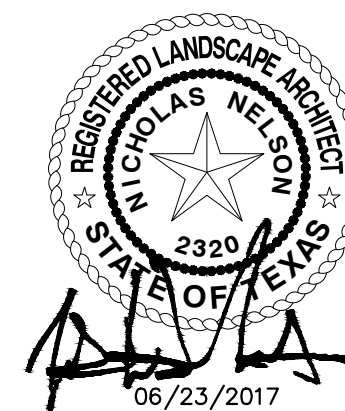


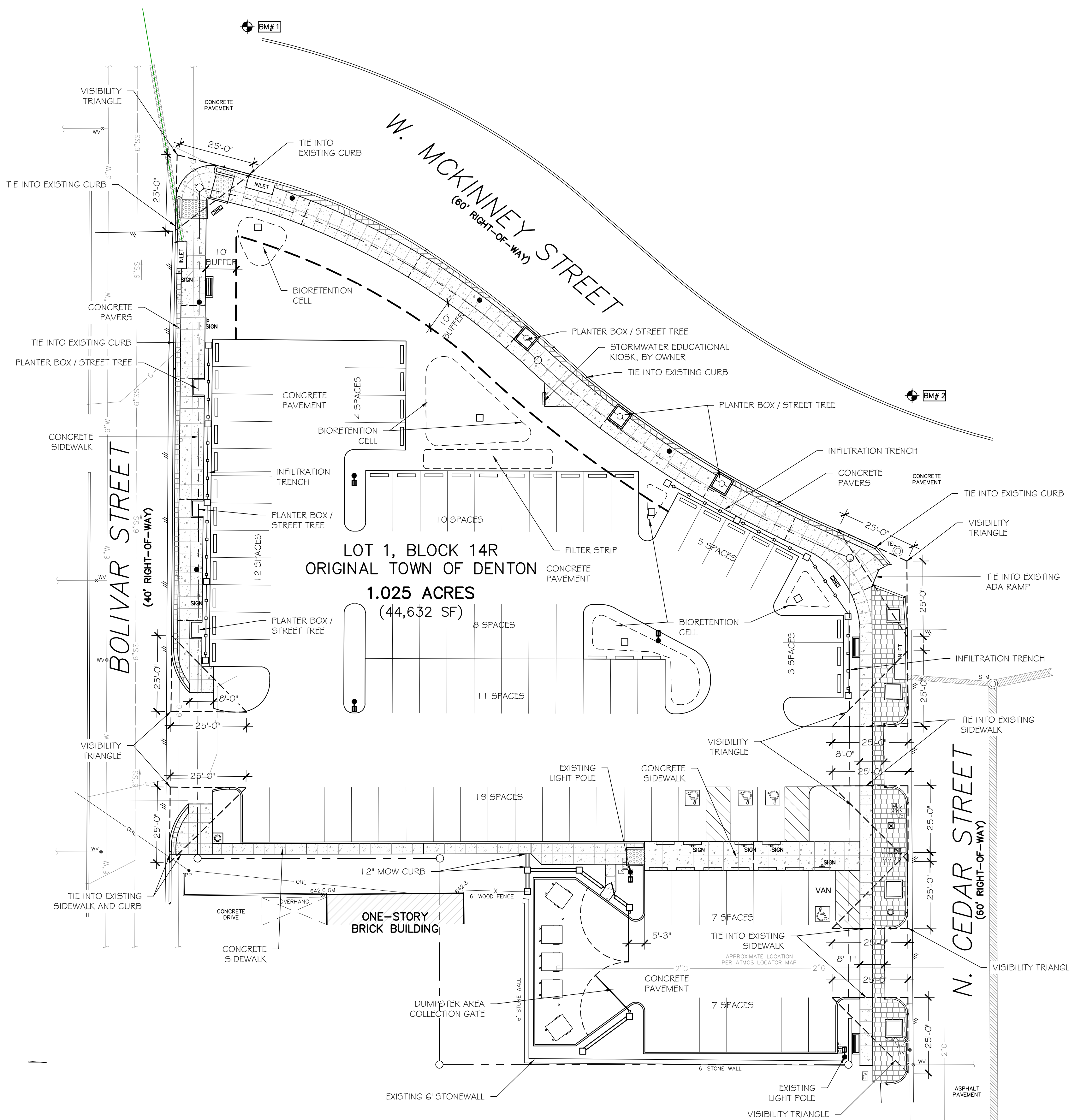
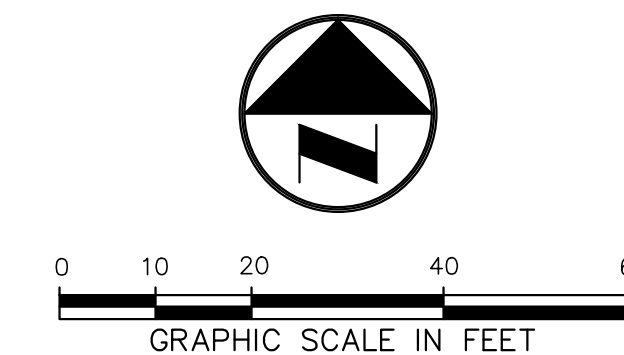
EXHIBIT F2-EROSION CONTROL DETAILS
OLD CENTRAL PARKING LOT
217 W MCKINNEY ST
DENTON CENTRAL BUSINESS DISTRICT
CITY OF DENTON, DENTON COUNTY, TEXAS

Pacheco Koch 6100 WESTERN PLACE, SUITE 1001
 FORT WORTH, TX 76107 817.412.7155
 TX REG. ENGINEERING FIRM F-14439
 TX REG. SURVEYING FIRM LS-10193824

DRAWN BY CRR	CHECKED BY NGN	SCALE AS SHOWN	DATE JUNE 2017	NO. EX-F2
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OLD CENTRAL PARKING LOT

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GENERAL LEGEND

- SYMBOL DESCRIPTION
- TREE GRATE
- BENCH
- BIKE RACK
- PARKING LOT MONUMENT SIGN (4'-3"x1'-1"x9'-4") (4'-3"x1'-1"x9'-4")
- DOWNTOWN KIOSK (2X2X7)
- 8 YARD DUMPSTER (7X6)
- PEDESTRIAN LIGHT POLES
- PARKING LIGHT POLES
- WHEEL STOP
- TRAFFIC SIGN
- TRASH RECEPTACLE
- 6' DUMPSTER ENCLOSURE WALL
- 6' CONCRETE TREE WELL EDGE
- 12' CONCRETE MOW CURB
- 36' PARKING LOT SCREENING FENCE
- ARTIFICIAL LOT LINE

LEGEND

- B BOLLARD
- CD CLEANOUT
- ED ELECTRIC VAULT
- FD FIRE HYDRANT
- FP FLAG POLE
- FL FLOOD LIGHT
- GM GAS METER
- GT GREASE TRAP
- LS LIGHT STANDARD
- ESB PULL BOX ELECTRIC
- PP POWER POLE
- SN SAN. SEWER MANHOLE
- SM STORM SEWER MANHOLE
- TEL TELEPHONE MANHOLE
- WM WATER METER
- WV WATER VALVE
- RD PAINT MARK RED
- Y PAINT MARK YELLOW
- APX APPROXIMATE RIGHT-OF-WAY LINE
- FENCE
- OHL OVERHEAD UTILITY LINE
- UHL UNDERGROUND ELECTRIC LINE
- UGL UNDERGROUND GAS LINE
- SDL STORM DRAIN LINE
- WL WATER LINE
- 6"SS SANITARY SEWER LINE
- 61.3 EXIST CONTOUR
- 612.39 EXIST SPOT ELEV.
- TC 612.39 EXIST TOP OF CURB ELEV.
- G 611.92 EXIST GUTTER ELEV.
- TS 612.39 EXIST TOP OF STEP ELEV.
- BS 611.92 EXIST BOTTOM OF STEP ELEV.
- TV 612.39 EXIST TOP OF VALVE ELEV.
- TN 611.92 EXIST TOP OF NUT ELEV.
- TW 612.39 EXIST TOP OF WALL ELEV.
- WB 611.92 EXIST BOTTOM OF WALL ELEV.

SITE DATA TABLE

ZONING: DC-G (DOWNTOWN COMMERCIAL GENERAL)		
SQUARE FOOTAGE OF LOT (excluding easments & R.O.W.)		PROVIDED
	44,635 SF	
SQUARE FOOTAGE OF LOT (including easments & R.O.W.)	51,905 SF	
TOTAL PERVIOUS LANDSCAPE AREA	9,514 SF	
IMPERVIOUS PARKING AREA	31,643 SF	
PERVIOUS PARKING AREA	0 SF	
LANDSCAPED PARKING AREAS	9,514 SF = 30%	
IMPERVIOUS PARKING SPACES	100	REQUIRED PROVIDED
	86	
ACCESSIBLE PARKING SPACES	4	4
OPEN SPACE (31,643 X .07 = 2,215 SF)	2,215 SF	9,514 SF
BICYCLE PARKING (1 SPACE / 20 VEHICULAR PARKING STALLS)		
BICYCLE SPACES (87 SPACES / 20 = 4.3 SPACES)	4	4
PARKING LOT MONUMENT SIGN	2	2
DOWNTOWN KIOSK	1	1



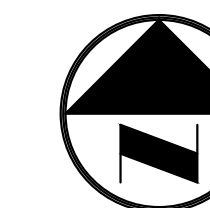
EXHIBIT G1-SITE INFORMATION PLAN
OLD CENTRAL PARKING LOT
 217 W MCKINNEY ST
 DENTON CENTRAL BUSINESS DISTRICT
 CITY OF DENTON, DENTON COUNTY, TEXAS

Pacheco Koch 6100 WESTERN PLACE, SUITE 1001
 FORT WORTH, TX 76107 817.412.7155
 TX REG. ENGINEERING FIRM F-14439
 TX REG. SURVEYING FIRM LS-10193824

DRAWN BY	CHECKED BY	SCALE	DATE	NO.
CRR	NGN	1"=20'	JUNE 2017	EX-G1

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OLD CENTRAL PARKING LOT



LEGEND

BL	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CL	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
FL	FLOOD LIGHT
FP	FLAG POLE
TS	TRAFFIC SIGN
IR	1/2-INCH IRON ROD
(C.M.)	W/"PACHECO KOCH" CAP SET
---	CONTROLLING MONUMENT
---	PROPERTY LINE
x	FENCE
#	COORDINATE DESIGNATION
○	PROPOSED FENCE

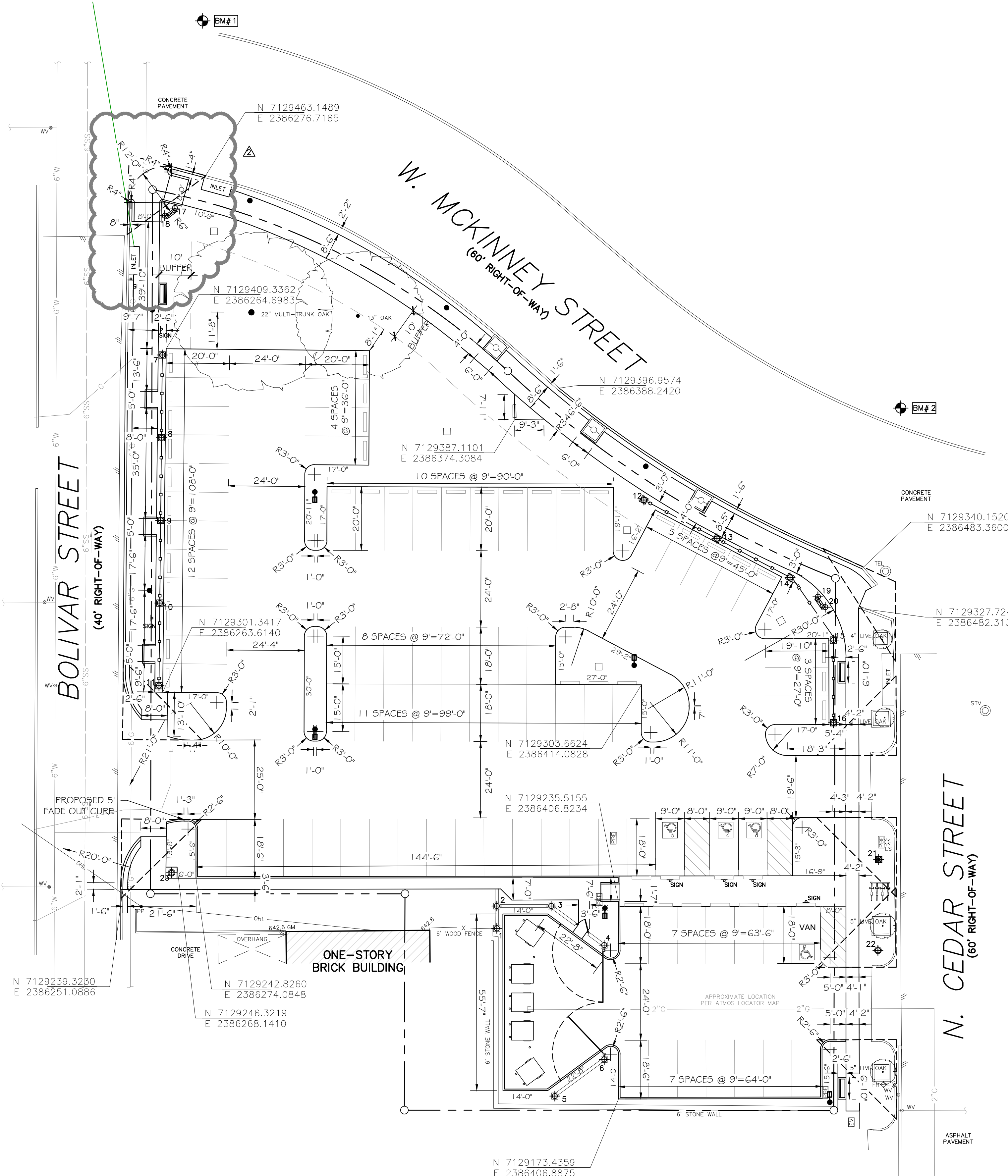
BENCH MARK LIST

BM#1	4" CUT SET ON NORTHEAST CORNER OF INLET, ±3' NORTH OF NORTH CURBLINE OF W. MCKINNEY STREET AND ±23' EAST OF EAST CURBLINE OF BOLIVAR STREET.	NORTHING= 7129512.41' EASTING= 2386276.16' ELEV= 633.59'
BM#2	MAG NAIL WITH WASHER SET ±5' NORTH OF NORTH CURBLINE OF W. MCKINNEY STREET AND ±2' EAST OF WEST CURBLINE OF N. CEDAR STREET.	NORTHING= 7129390.66' EASTING= 2386495.58' ELEV= 636.33'
BM#99	CITY OF DENTON BRONZE CAP FOUND AT THE NORTHWEST CORNER OF AN INLET ON THE NORTH SIDE OF W. MCKINNEY STREET, BETWEEN BOLIVAR STREET AND N. CARROLL BOULEVARD.	ELEV= 632.07'

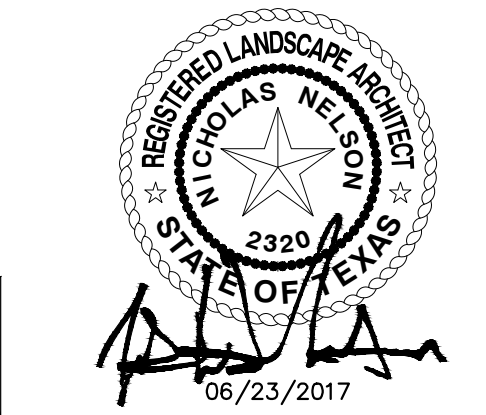
ALL DIMENSIONS ARE TO BACK-OF-CURB UNLESS OTHERWISE NOTED.

NORTHING/EASTING POINT SCHEDULE

	DESCRIPTION	NORTHING	EASTING
CALLOUT	TIE INTO EXISTING CURB	N 7129340.1520	E 2386483.3600
CALLOUT	EDGE OF TRASH RECEPTACLE CONCRETE PAD	N 7129246.3219	E 2386268.1410
CALLOUT	TIE INTO EXISTING CURB	N 7129239.3230	E 2386251.0886
CALLOUT	EDGE OF CONCRETE	N 7129301.3417	E 2386263.6140
CALLOUT	EDGE OF CONCRETE	N 7129303.6624	E 2386414.0828
CALLOUT	TIE INTO EXISTING RAMP	N 7129327.7240	E 2386482.3130
CALLOUT	EDGE OF CONCRETE	N 7129409.3362	E 2386264.6983
CALLOUT	EDGE OF INFORMATION SIGNAGE CONCRETE PAD	N 7129387.1101	E 2386374.3084
CALLOUT	BACK OF CURB CORNER	N 7129242.8260	E 2386274.0848
CALLOUT	BACK OF CURB CORNER	N 7129173.4359	E 2386406.8875
CALLOUT	TIE INTO EXISTING CURB	N 7129463.1489	E 2386276.7165
CALLOUT	TIE INTO EXISTING CURB	N 7129396.9574	E 2386388.2420
CALLOUT	BACK OF CURB CORNER	N 7129235.5155	E 2386406.8234
1	DUMPSTER ENCLOSURE WALL COLUMN	N 7129227.0560	E 2386368.6466
2	DUMPSTER ENCLOSURE WALL COLUMN	N 7129234.0809	E 2386368.6154
3	DUMPSTER ENCLOSURE WALL COLUMN	N 7129234.0809	E 2386385.6802
4	DUMPSTER ENCLOSURE WALL COLUMN	N 7129221.8062	E 2386402.3487
5	DUMPSTER ENCLOSURE WALL COLUMN	N 7129174.3368	E 2386386.8740
6	DUMPSTER ENCLOSURE WALL COLUMN	N 7129185.8548	E 2386402.3933
7	PERIMETER FENCE COLUMN	N 7129407.3497	E 2386263.4771
8	PERIMETER FENCE COLUMN	N 7129381.3510	E 2386263.2161
9	PERIMETER FENCE COLUMN	N 7129355.3523	E 2386262.9550
10	PERIMETER FENCE COLUMN	N 7129329.3536	E 2386262.6940
11	PERIMETER FENCE COLUMN	N 7129303.3549	E 2386262.4329
12	PERIMETER FENCE COLUMN	N 7129361.7709	E 2386414.8491
13	PERIMETER FENCE COLUMN	N 7129349.5944	E 2386437.8216
14	PERIMETER FENCE COLUMN	N 7129337.4180	E 2386406.7940
15	PERIMETER FENCE COLUMN	N 7129317.7253	E 2386474.4274
16	PERIMETER FENCE COLUMN	N 7129291.7250	E 2386474.4701
17	CORNER OF PARKING LOT MONUMENT SIGN	N 7129453.5636	E 2386267.4354
18	CORNER OF PARKING LOT MONUMENT SIGN	N 7129451.1396	E 2386264.2535
19	CORNER OF PARKING LOT MONUMENT SIGN	N 7129331.3390	E 2386469.5683
20	CORNER OF PARKING LOT MONUMENT SIGN	N 7129328.0612	E 2386471.8610
21	DOWNTOWN KIOSK	N 7129248.7140	E 2386488.6673
22	TRASH RECEPTACLE	N 7129220.1552	E 2386488.4266
23	TRASH RECEPTACLE	N 7129244.5672	E 2386266.3784

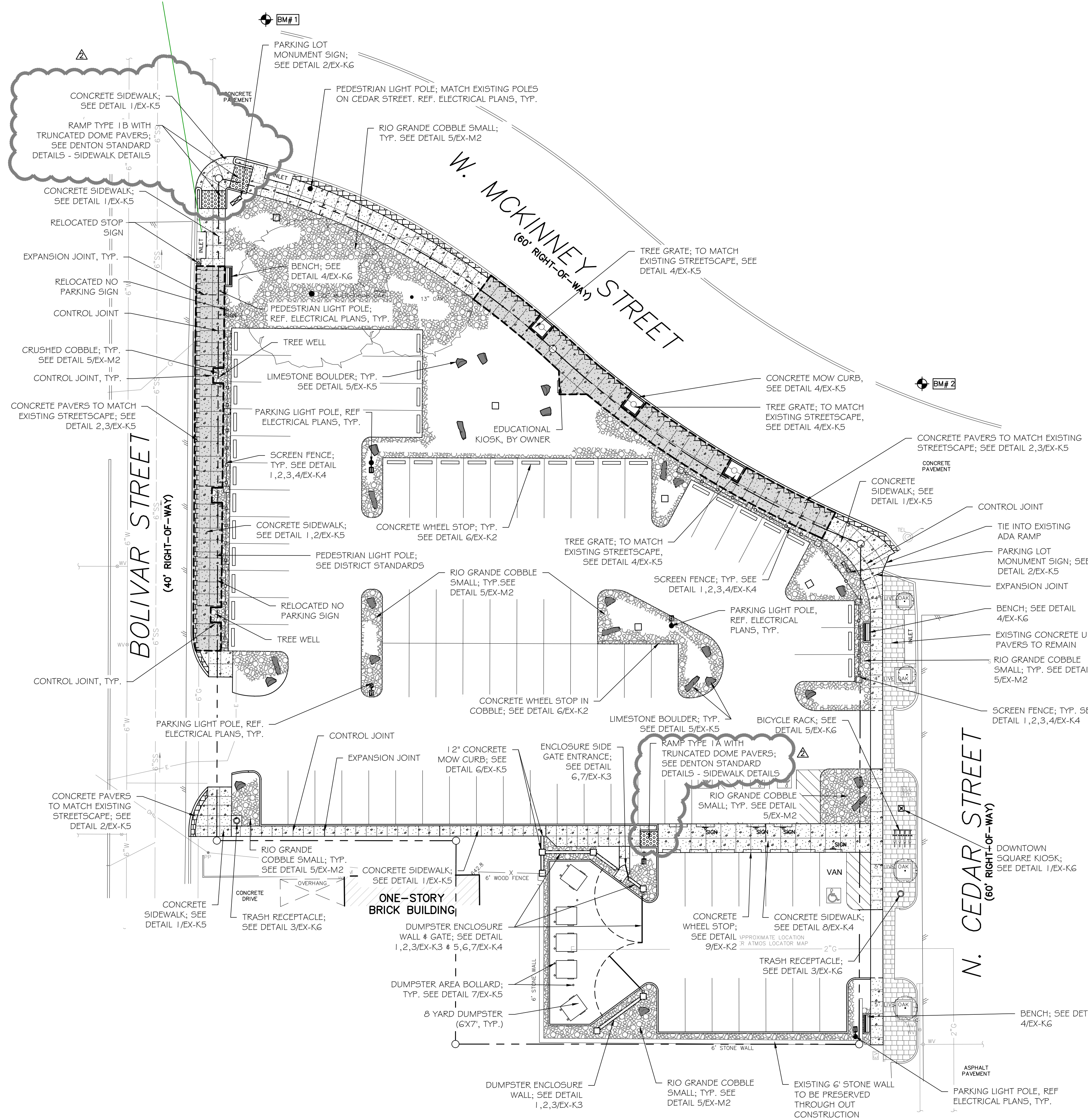
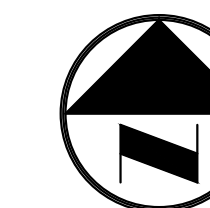


△	08/16/2017	ADA RAMPS REVISION
NO.	DATE	REVISION
EXHIBIT G2-DIMENSIONAL CONTROL PLAN		
OLD CENTRAL PARKING LOT		
217 W MCKINNEY ST		
DENTON CENTRAL BUSINESS DISTRICT		
CITY OF DENTON, DENTON COUNTY, TEXAS		
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824
DRAWN BY	CHECKED BY	SCALE
CRR	NGN	1"=20'
DATE		NO.
JUNE 2017		EX-G2



OLD CENTRAL PARKING LOT

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 06/10/2017 9:10 AM
 J. A. DAVIS, 3778-16.157.DWG\LANDSCAPE_C3D_2015\SHEETS\DOM



HARDSCAPE SCHEDULE

SYMBOL	FENCE DESCRIPTION	QTY	HEIGHT
	ORNAMENTAL FENCE	190 LF	36"

SYMBOL	PAVING DESCRIPTION	QTY	MATERIAL
	12" CONCRETE MOW CURB	4 LF	
	6" CONCRETE TREE WELL EDGE	72 LF	

SYMBOL	WALL DESCRIPTION	QTY
	DUMPSTER ENCLOSURE WALL	64 LF

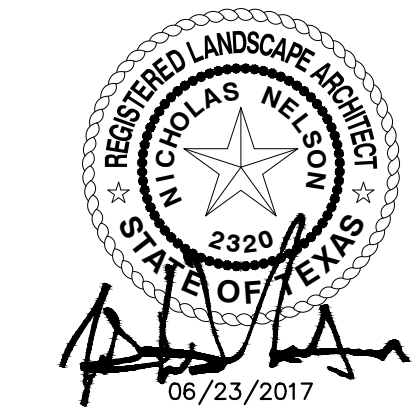
SYMBOL	SITE FURNISHINGS DESCRIPTION	QTY
	TRASH RECEPTACLE - TO MATCH CITY STANDARDS	2
	TREE GRATE - TO MATCH CITY STANDARDS	3
	BENCH - TO MATCH CITY STANDARDS	3
	BIKE RACK - TO MATCH CITY STANDARDS	1

SYMBOL	PAVING DESCRIPTION	QTY	MATERIAL
	PAVERS TO MATCH CITY STANDARDS	584 SF	CONCRETE UNIT PAVER
	CONCRETE SIDEWALK	5,410 SF	CONCRETE
	TRUNCATED DOME PAVERS	126 SF	SEE DENTON SIDEWALK DETAILS

SYMBOL	ROCK DESCRIPTION	QTY
	RIO GRANDE COBBLE - SMALL	53.43 CY
	LIMESTONE BOULDERS 3' X 2', 2' X 2', & 2' X 1'	24

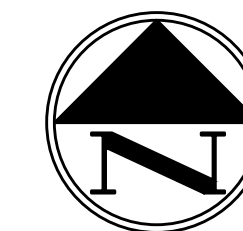
SYMBOL	SUB-PAVING DESCRIPTION	QTY
	ROOTSPACE STRUCTURAL MODULES, BENEATH CONCRETE UNIT PAVERS & 4" REINFORCED CONCRETE	APPROX. 2,500 SF, SEE DETAIL 3,4/EX-K5

	08/16/2017	ADA RAMP REVISION
	08/02/2017	ADDENDUM 1
NO.	DATE	REVISION
EXHIBIT G3-HARDSCAPE PLAN		
OLD CENTRAL PARKING LOT		
217 W MCKINNEY ST		
DENTON CENTRAL BUSINESS DISTRICT		
CITY OF DENTON, DENTON COUNTY, TEXAS		
		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824
DRAWN BY	CHECKED BY	SCALE
CRR	NGN	1"=20'
DATE	NO.	
JUNE 2017	EX-G3	



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OLD CENTRAL PARKING LOT



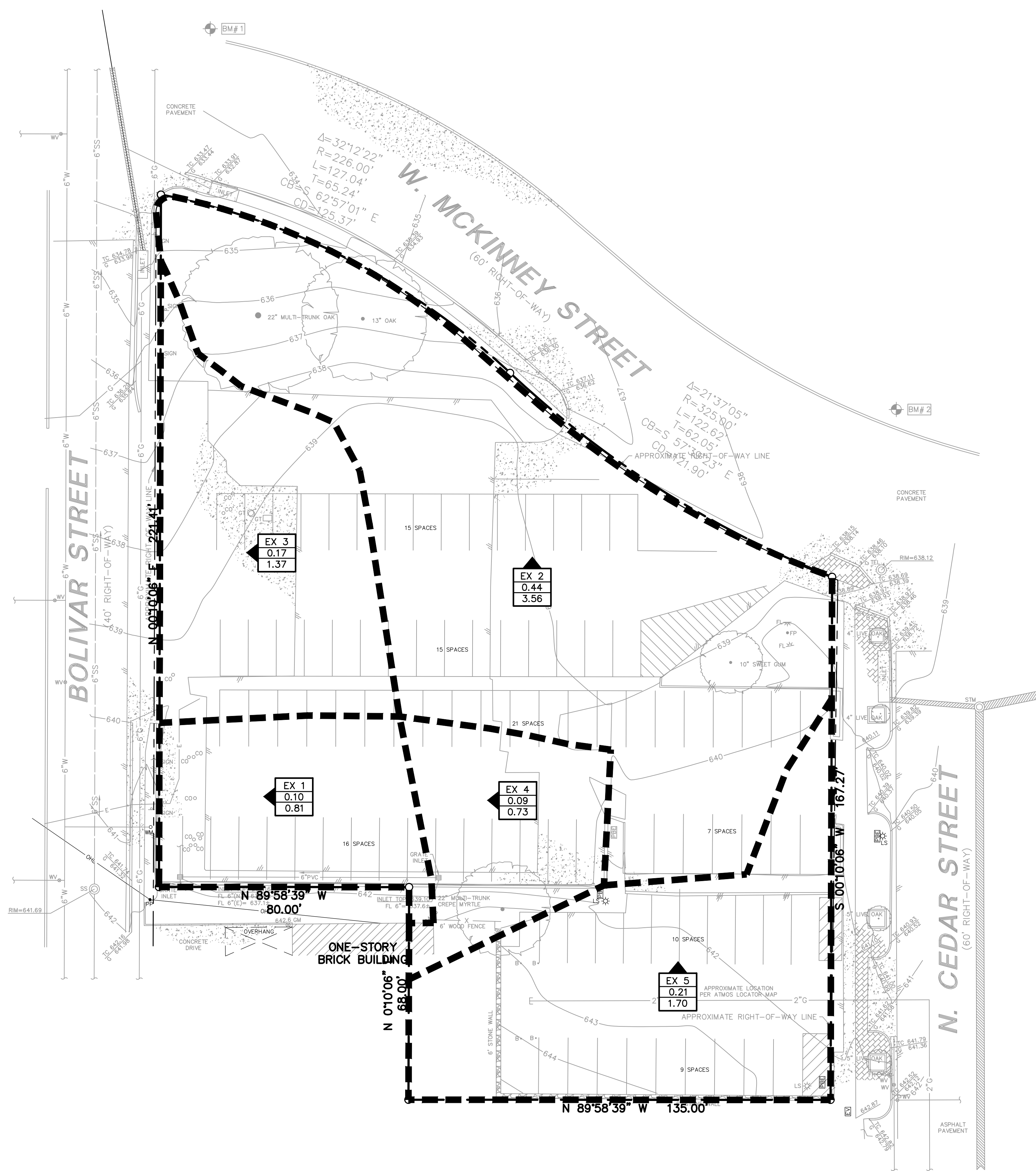
LEGEND

- BL BOLLARD
 - EM ELECTRIC METER
 - PP POWER POLE
 - LS LIGHT STANDARD
 - WM WATER METER
 - WV WATER VALVE
 - ICV IRRIGATION CONTROL VALVE
 - FH FIRE HYDRANT
 - CO CLEANOUT
 - MH MANHOLE
 - TSC TRAFFIC SIGNAL CONTROL
 - TSP TRAFFIC SIGNAL POLE
 - TB TELEPHONE BOX
 - FL FLOOD LIGHT
 - FP FLAG POLE
 - SGN TRAFFIC SIGN
- PROPERTY LINE
 - - - FENCE
 - (450) PROPOSED CONTOUR
 - PROPOSED DRAINAGE FLOW DIRECTION
 - PROPOSED 100-YR FLOODPLAIN LIMITS
 - EXISTING DRAINAGE DIVIDE
 - DA 8 PROPOSED DRAINAGE AREA ID
 - 1.00 AREA IN ACRES
 - 7.99 Q₁₀₀ IN CUBIC FEET PER SECOND
 - EX 8 EXISTING DRAINAGE AREA ID
 - 1.00 AREA IN ACRES
 - 7.99 Q₁₀₀ IN CUBIC FEET PER SECOND

EXISTING DRAINAGE CRITERIA:
Q=(C)(Cf)(I)(A)

DRAINAGE AREA MAP

DRAINAGE AREA ID	AREA (acres)	C	Cf	Tc (minutes)	STORM FREQUENCY	I ₁₀₀ (inch/hour)	Q ₁₀₀ (cfs)	COMMENTS
EX 1	0.10	0.70	1.25	10	100	9.24	0.81	DRAINS TO EXIST. GRATE INLET
EX 2	0.44	0.70	1.25	10	100	9.24	3.56	DRAINS TO EXIST. CURB INLET
EX 3	0.17	0.70	1.25	10	100	9.24	1.37	DRAINS TO EXIST. CURB INLET
EX 4	0.09	0.70	1.25	10	100	9.24	0.73	DRAINS TO EXIST. GRATE INLET
EX 5	0.21	0.70	1.25	10	100	9.24	1.70	DRAINS TO EXIST. CURB INLET



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JACE C. MOTHERAL, P.E. 118787 ON 06/23/2017. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

EXHIBIT H1-EX. DRAINAGE AREA MAP

OLD CENTRAL PARKING LOT

217 W MCKINNEY ST

DENTON CENTRAL BUSINESS DISTRICT

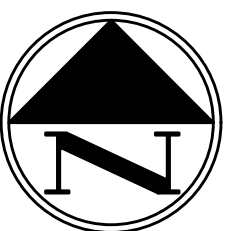
CITY OF DENTON, DENTON COUNTY, TEXAS

Pacheco Koch 6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155
TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824

DRAWN BY JCM	CHECKED BY PAC	SCALE 1"=20'	DATE JUNE 2017	NO. EX-H1
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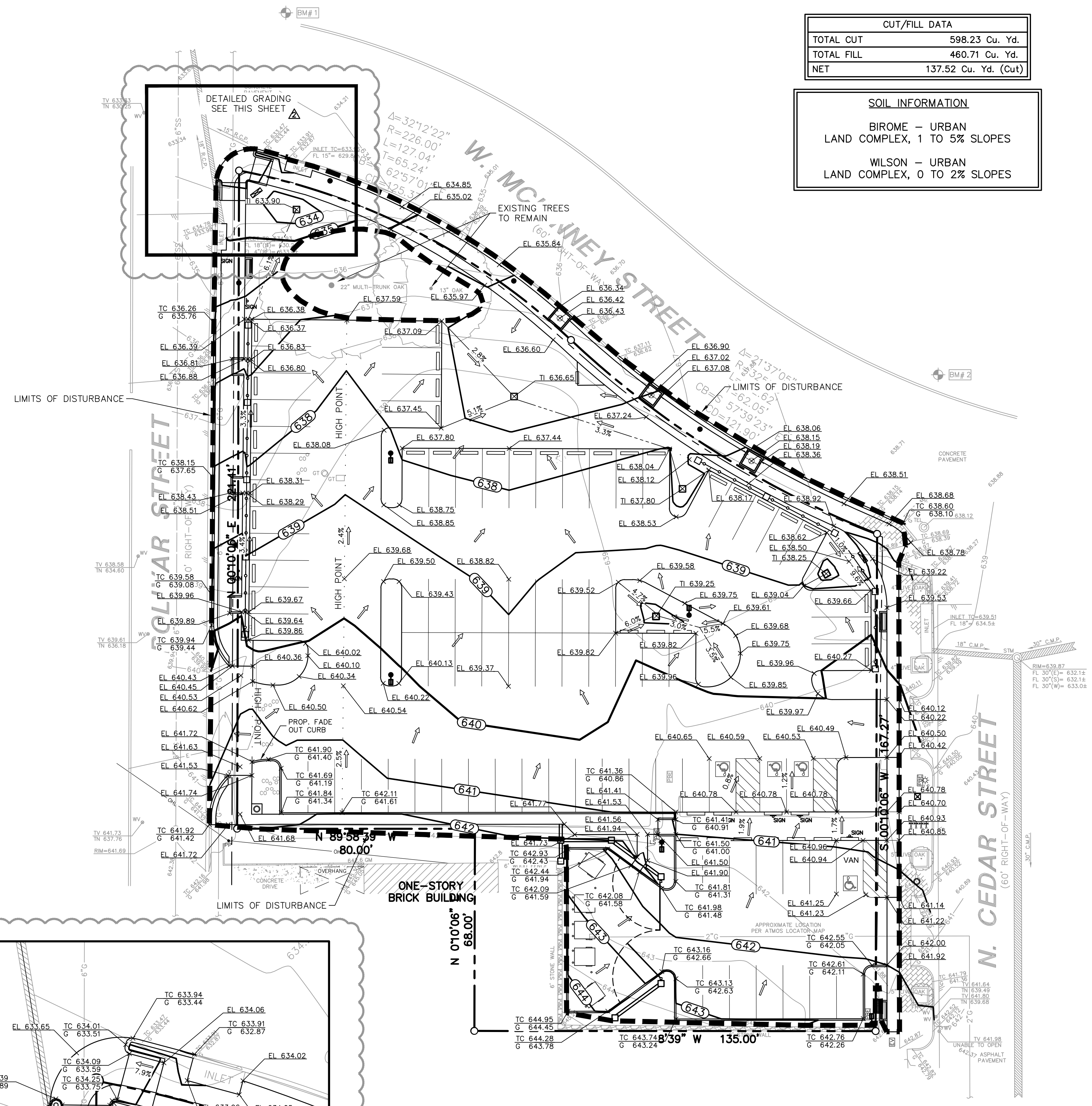
OLD CENTRAL PARKING LOT



LEGEND	
B.	BOLLARD
EM _D	ELECTRIC METER
PP.	POWER POLE
LS.	LIGHT STANDARD
WM _o	WATER METER
WV _o	WATER VALVE
ICV _o	IRRIGATION CONTROL VALVE
FH _o	FIRE HYDRANT
CO.	CLEANOUT
MH _o	MANHOLE
TSC _o	TRAFFIC SIGNAL CONTROL
TSP.	TRAFFIC SIGNAL POLE
TELE _o	TELEPHONE BOX
FL.	FLOOD LIGHT
FP.	FLAG POLE
SIGN.	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD
(C.M.)	W/"PACHECO KOCH" CAP SET
---	CONTROLLING MONUMENT
---	PROPERTY LINE
---	FENCE
---	OVERHEAD UTILITY LINE
---	EXIST CONTOUR
---	EXIST SPOT ELEVATION
---	EXIST TOP OF CURB ELEVATION
---	EXIST GUTTER ELEVATION
---	PROPOSED CONTOUR
---	PROPOSED TOP OF CURB ELEVATION
---	PROPOSED GUTTER ELEVATION
---	PROPOSED SPOT ELEVATION
M.G.	MATCH EXISTING GRADE
---	PROPOSED TOP OF WALL ELEVATION
---	PROPOSED GROUND ELEVATION AT
---	BOTTOM OF WALL
---	PROPOSED SWALE
---	PROPOSED FENCE
---	LIMITS OF DISTURBANCE

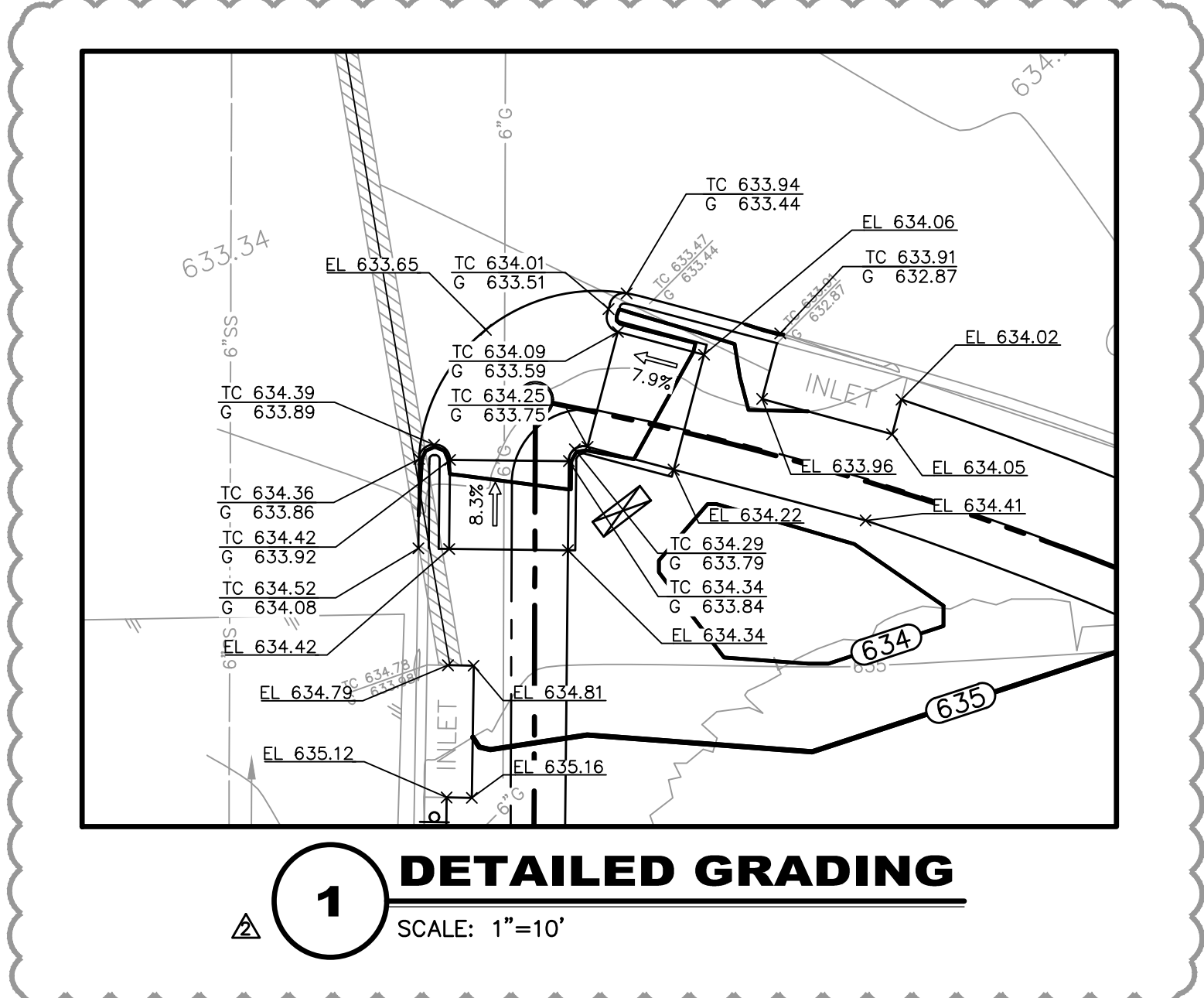
CUT/FILL DATA	
TOTAL CUT	598.23 Cu. Yd.
TOTAL FILL	460.71 Cu. Yd.
NET	137.52 Cu. Yd. (Cut)

SOIL INFORMATION	
BIROME - URBAN	LAND COMPLEX, 1 TO 5% SLOPES
WILSON - URBAN	LAND COMPLEX, 0 TO 2% SLOPES



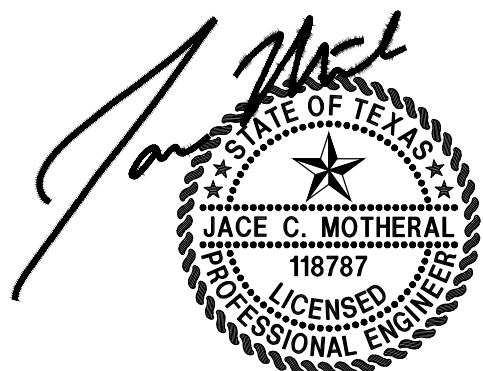
GRADING & DRAINAGE GENERAL NOTES

- REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
- UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN MAXIMUM LIFTS OF 6 INCHES.
- SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN 5% (UNLESS OTHERWISE NOTED) AND A CROSS SLOPE NO GREATER THAN 2%.
- GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO FEDERAL, STATE, AND LOCAL GUIDELINES.
- ALL PROPOSED AND EXISTING GRADES IN NON-PAVED AREAS ARE "FINISHED GRADE" (i.e. IN LANDSCAPE BEDS, TOP OF MULCH/BEDDING MATERIAL).
- UNLESS NOTED, STORM DRAIN LINES SHALL BE OF THE FOLLOWING MATERIALS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS:
 - RCP C-76, CLASS III
 - ADS N-12
 - HANCOR HI-Q
- UNLESS NOTED, GRATE INLETS TO BE "HANSON PIPE AND PRECAST" CATCH BASIN SIZED AS SHOWN, OR APPROVED EQUAL.
- FINAL PAVING, CURB, AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
- REFER TO LANDSCAPE SPECIFICATIONS FOR SEEDING AND SODDING REQUIREMENTS.
- ANY CONCRETE, ROCK, OR MATERIAL DEEMED BY THE ENGINEER TO BE UNSUITABLE FOR SUBGRADE SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
- TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6-INCH LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
- EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
- A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS NEAR THE OUTLET PIPE.
- ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 702.2.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
- CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM FOR CRUSHED STONE BEDDING.
- IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTOR'S EXPENSE.

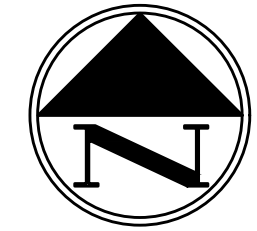


NO.	DATE	REVISION
1	06/16/2017	ADA RAMPS REVISION

EXHIBIT H2-PROPOSED GRADING PLAN		
OLD CENTRAL PARKING LOT		
217 W MCKINNEY ST		
DENTON CENTRAL BUSINESS DISTRICT		
CITY OF DENTON, DENTON COUNTY, TEXAS		
Pacheco Koch	6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439	
DRAWN BY JCM	CHECKED BY PAC	SCALE 1"=20'
	DATE JUNE 2017	NO. EX-H2



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LEGEND

- B₁ BOLLARD
 - EM₁ ELECTRIC METER
 - PP₁ POWER POLE
 - LS₁ LIGHT STANDARD
 - WM₁ WATER METER
 - WV₁ WATER VALVE
 - ICV₁ IRRIGATION CONTROL VALVE
 - FH₁ FIRE HYDRANT
 - CB₁ CLEANOUT
 - MH₁ MANHOLE
 - TS₁ TRAFFIC SIGNAL CONTROL
 - TS₁ TRAFFIC SIGNAL POLE
 - TE₁ TELEPHONE BOX
 - FL₁ FLOOD LIGHT
 - FP₁ FLAG POLE
 - SIGN₁ TRAFFIC SIGN
- PROPERTY LINE
 - - - FENCE
 - (450) PROPOSED CONTOUR
 - PROPOSED DRAINAGE FLOW DIRECTION
 - PROPOSED 100-YR FLOODPLAIN LIMITS
 - PROPOSED DRAINAGE DIVIDE
 - DA 8
1.00
7.99 PROPOSED DRAINAGE AREA ID
AREA IN ACRES
Q₁₀₀ IN CUBIC FEET PER SECOND
 - EX 8
1.00
7.99 EXISTING DRAINAGE AREA ID
AREA IN ACRES
Q₁₀₀ IN CUBIC FEET PER SECOND

PROPOSED DRAINAGE CRITERIA:
Q=(C)(I)(A)

DRAINAGE AREA MAP								
DRAINAGE AREA ID	AREA (acres)	C	C _f	T _c (minutes)	STORM FREQUENCY	I ₁₀₀ (inch/hour)	Q ₁₀₀ (cfs)	COMMENTS
DA 1	0.06	0.70	1.25	10	100	9.24	0.49	DRAINS TO EXIST. CURB INLET
DA 2	0.16	0.70	1.25	10	100	9.24	1.29	DRAINS TO PROP. CATCH BASIN
DA 3	0.03	0.70	1.25	10	100	9.24	0.24	DRAINS TO EXIST. CURB INLET
DA 4	0.33	0.70	1.25	10	100	9.24	2.67	DRAINS TO PROP. CATCH BASIN
DA 5	0.05	0.70	1.25	10	100	9.24	0.40	DRAINS TO PROP. CATCH BASIN
DA 6	0.15	0.70	1.25	10	100	9.24	1.21	DRAINS TO PROP. CATCH BASIN
DA 7	0.07	0.70	1.25	10	100	9.24	0.57	DRAINS TO PROP. CATCH BASIN
DA 8	0.18	0.70	1.25	10	100	9.24	1.46	DRAINS TO EXIST. CURB INLET

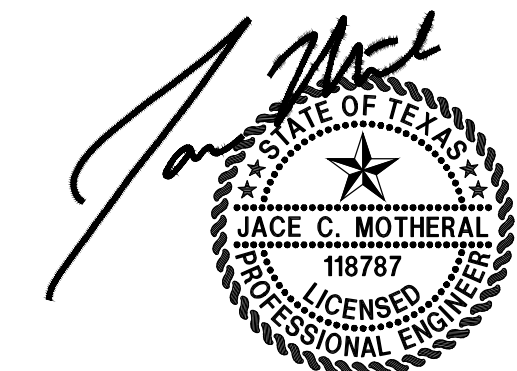
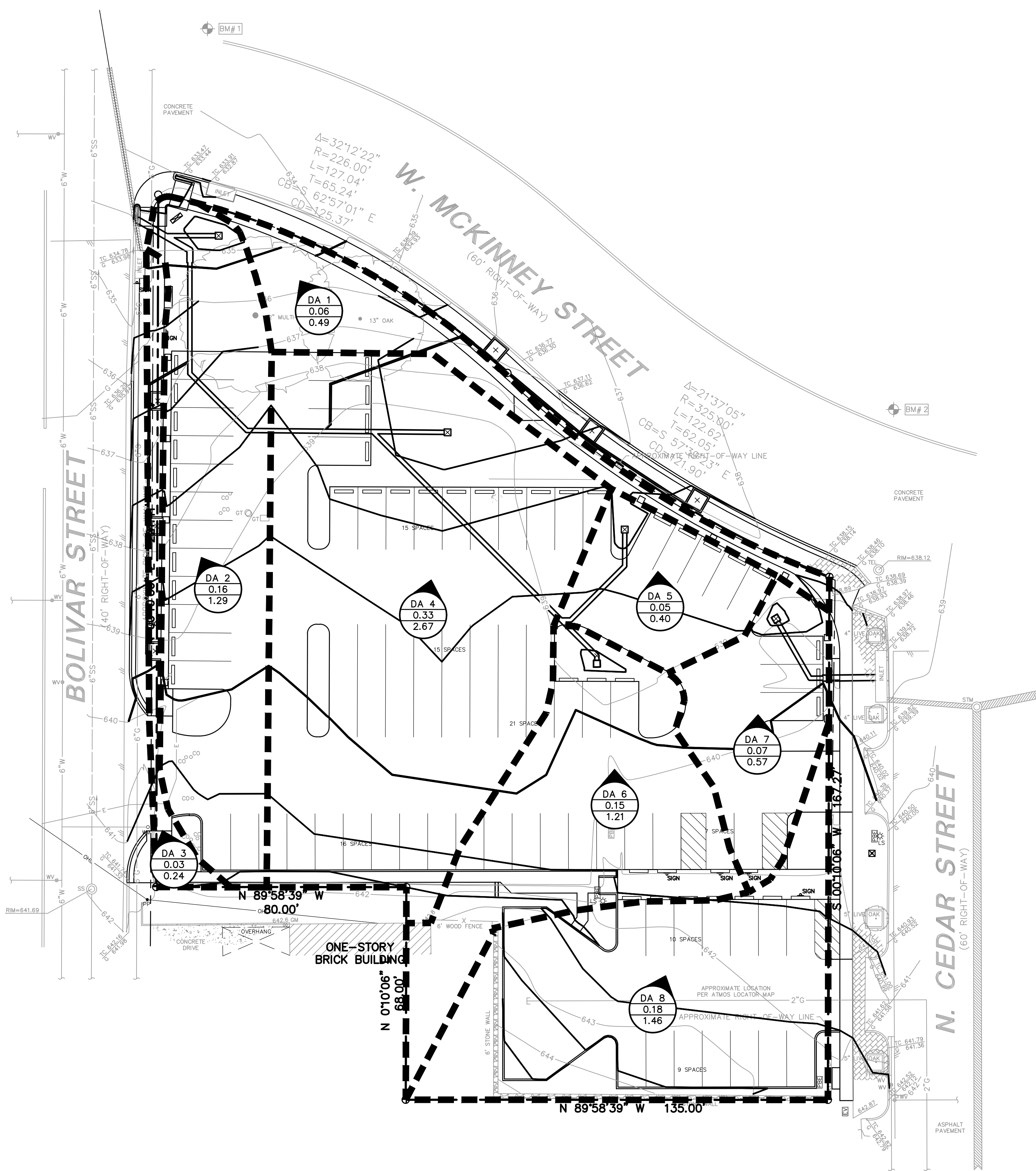


EXHIBIT H3-PROP. DRAINAGE AREA MAP
OLD CENTRAL PARKING LOT
217 W MCKINNEY ST
DENTON CENTRAL BUSINESS DISTRICT
CITY OF DENTON, DENTON COUNTY, TEXAS

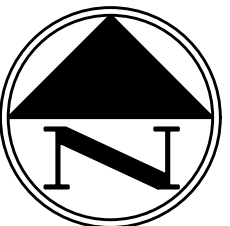
Pacheco Koch 6100 WESTERN PLACE, SUITE 1001
 FORT WORTH, TX 76107 817.412.7155
 TX REG. ENGINEERING FIRM F-14439
 TX REG. SURVEYING FIRM LS-10193824

DRAWN BY JCM CHECKED BY PAC SCALE 1"=20' DATE JUNE 2017 NO **EX-H3**

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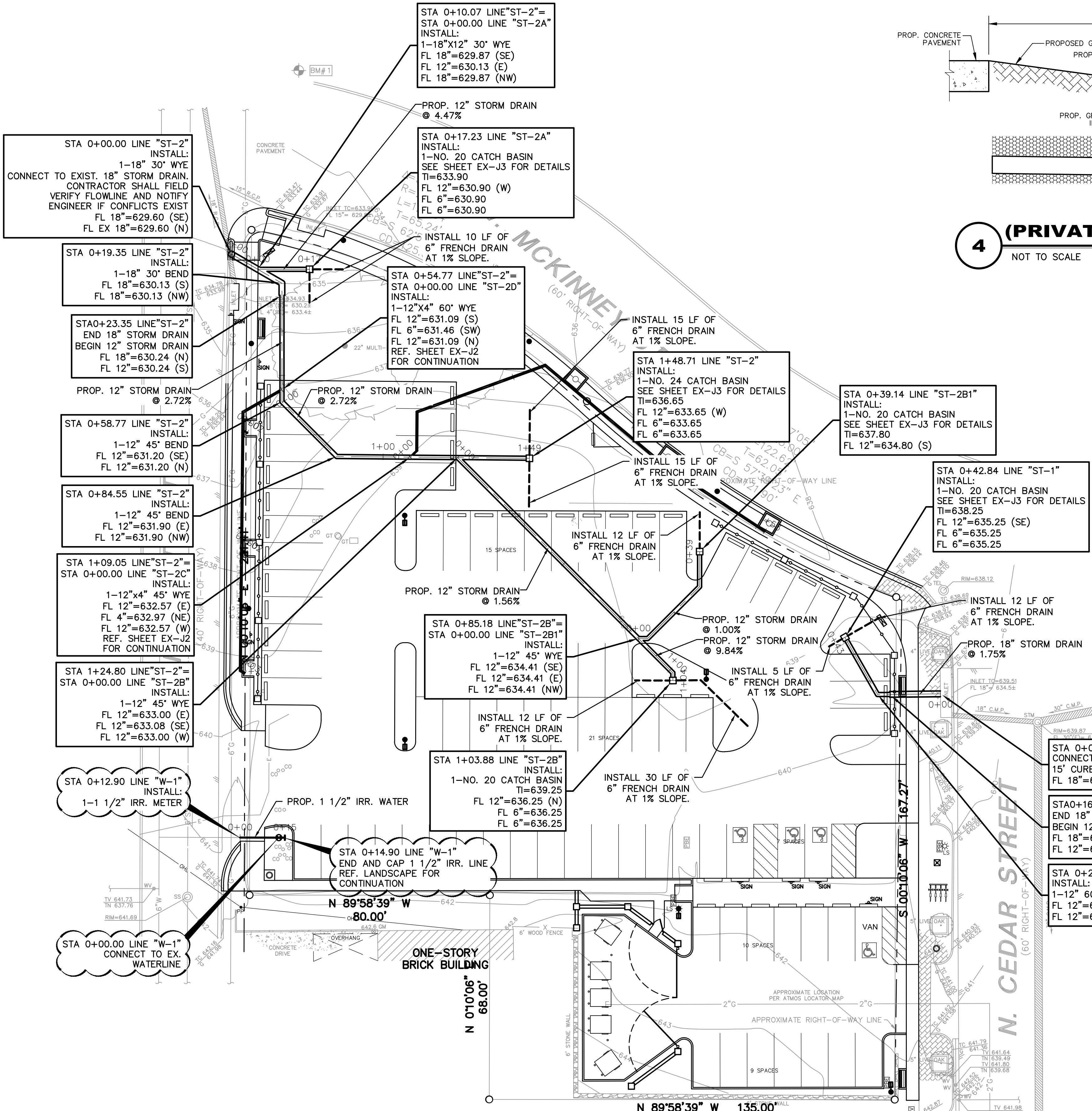
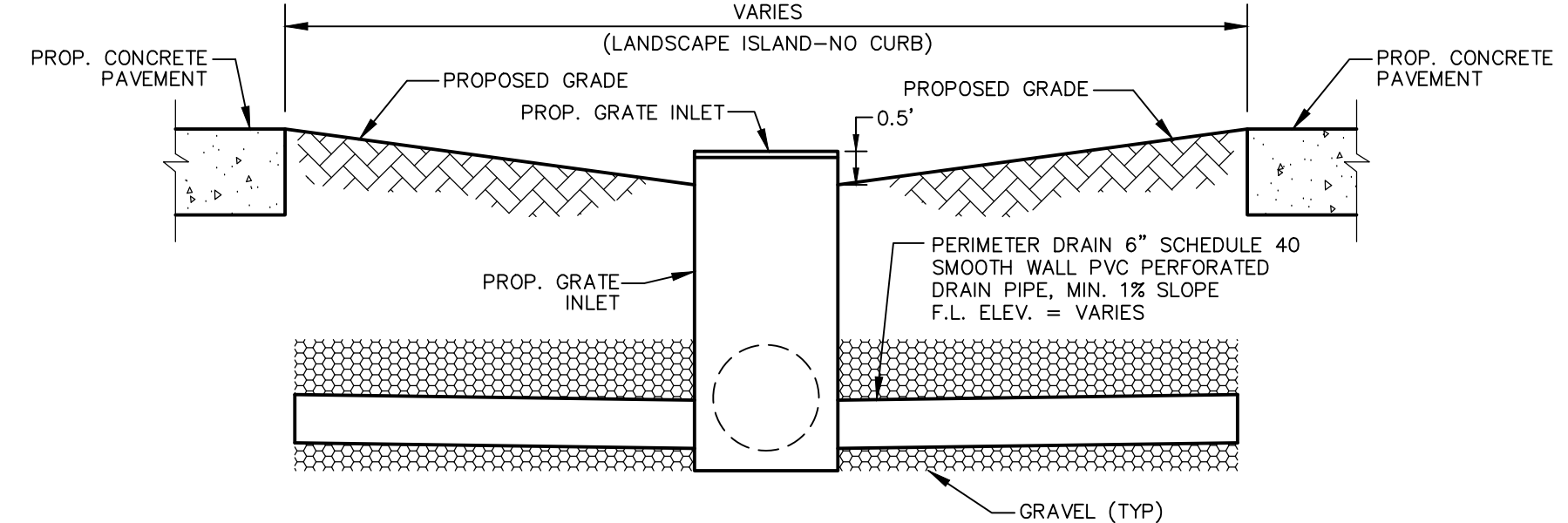
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OLD CENTRAL PARKING LOT



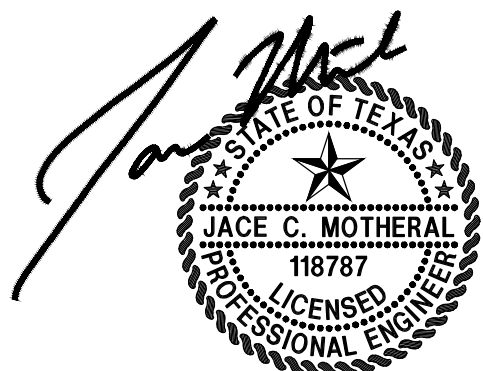
LEGEND

B.	BOLLARD	
EM	ELECTRIC METER	
PP	POWER POLE	
LS	LIGHT STANDARD	
WM	WATER METER	
WV	WATER VALVE	
ICV	IRRIGATION CONTROL VALVE	
FH	FIRE HYDRANT	
CO	CLEANOUT	
MH	MANHOLE	
TSC	TRAFFIC SIGNAL CONTROL	
TSP	TRAFFIC SIGNAL POLE	
TELE	TELEPHONE BOX	
FL	FLOOD LIGHT	
FP	FLAG POLE	
SIGN	TRAFFIC SIGN	
IRS	1/2-INCH IRON ROD	
(C.M.)	W/PACHECO KOCH" CAP SET	
---	CONTROLLING MONUMENT	
---	PROPERTY LINE	
---	FENCE	
---	OVERHEAD UTILITY LINE	
---	UNDERGROUND ELECTRIC LINE	
---	UNDERGROUND TELEPHONE LINE	
---	UNDERGROUND CABLE LINE	
---	UNDERGROUND WATER LINE	
---	6"SS	UNDERGROUND CABLE LINE



GRADING & DRAINAGE GENERAL NOTES

- REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
- UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN MAXIMUM LIFTS OF 6 INCHES.
- SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN 5% (UNLESS OTHERWISE NOTED) AND A CROSS SLOPE NO GREATER THAN 2%.
- GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO FEDERAL, STATE, AND LOCAL GUIDELINES.
- ALL PROPOSED AND EXISTING GRADES IN NON-PAVED AREAS ARE "FINISHED GRADE" (I.E. IN LANDSCAPE BEDS, TOP OF MULCH/BEDDING MATERIAL).
- UNLESS NOTED, STORM DRAIN LINES SHALL BE OF THE FOLLOWING MATERIALS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS:
6.A. RCP C-76, CLASS III
6.B. ADS N-12
6.C. HANCOR HI-0
- UNLESS NOTED, GRATE INLETS TO BE "HANSON PIPE AND PRECAST" CATCH BASIN SIZED AS SHOWN, OR APPROVED EQUAL.
- FINAL PAVING, CURB, AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
- REFER TO LANDSCAPE SPECIFICATIONS FOR SEEDING AND SODDING REQUIREMENTS.
- ANY CONCRETE, ROCK, OR MATERIAL DEEMED BY THE ENGINEER TO BE UNSUITABLE FOR SUBGRADE SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
- TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6-INCH LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
- EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
- A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TRENCHES NEAR THE OUTLET PIPE.
- ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 702.2.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
- CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM FOR CRUSHED STONE BEDDING.
- IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTOR'S EXPENSE.



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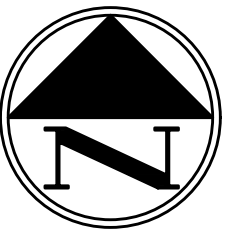
EXHIBIT J1-UTILITY PLAN
OLD CENTRAL PARKING LOT
217 W MCKINNEY ST
DENTON CENTRAL BUSINESS DISTRICT
CITY OF DENTON, DENTON COUNTY, TEXAS

Pacheco Koch 6100 WESTERN PLACE, SUITE 1001
 FORT WORTH, TX 76107 817.412.7155
 TX REG. ENGINEERING FIRM F-14439
 TX REG. SURVEYING FIRM LS-10193824

DRAWN BY	JCM
CHECKED BY	PAC
SCALE	1"=20'
DATE	JUNE 2017
NO.	EX-J1

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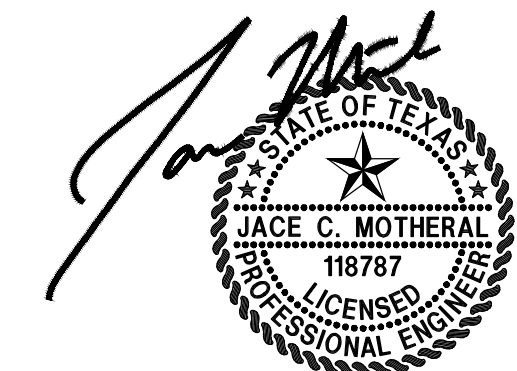
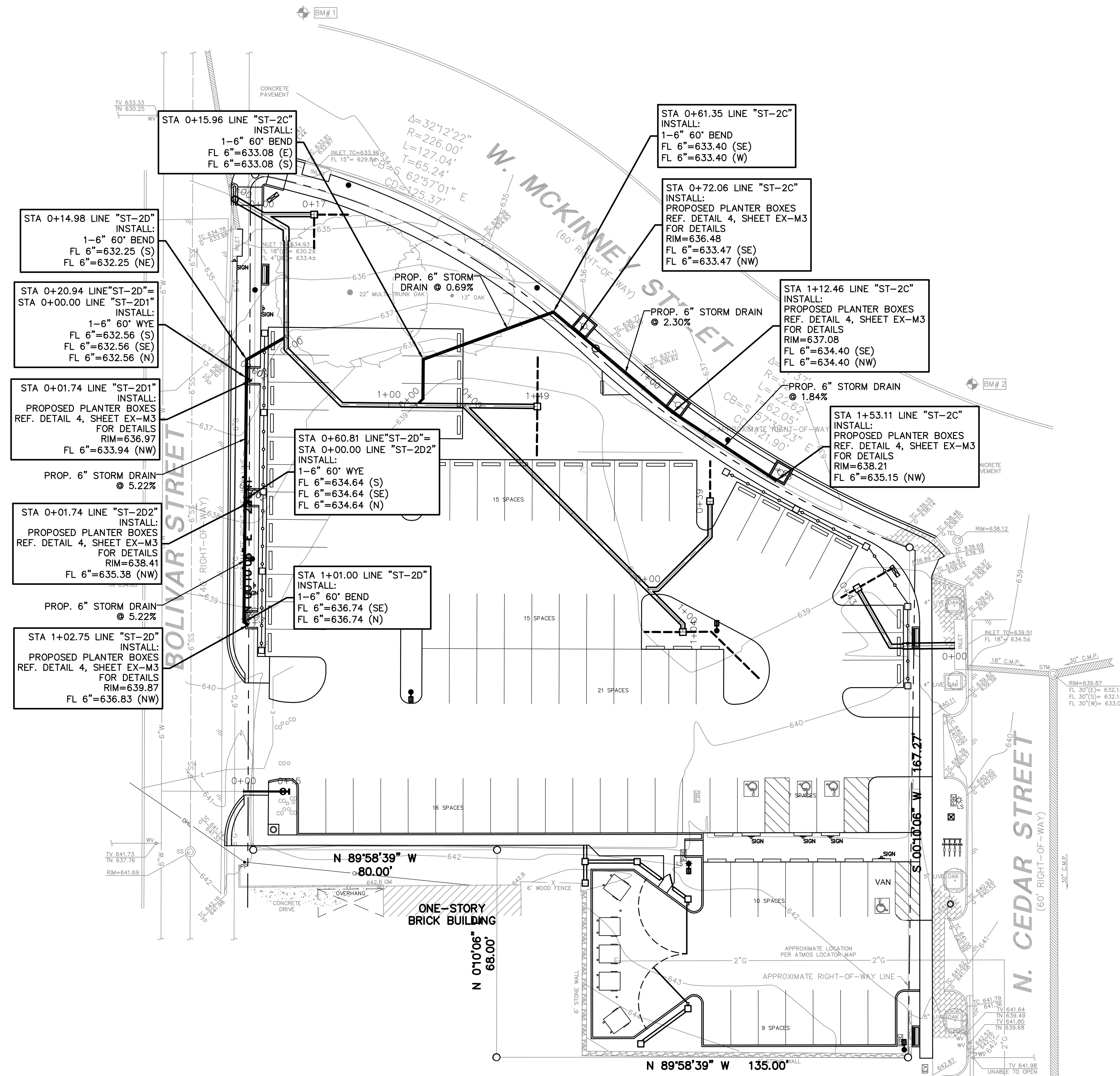
OLD CENTRAL PARKING LOT



0 10 20 40 60
GRAPHIC SCALE IN FEET

LEGEND

- B. BOLLARD
- EM_⊙ ELECTRIC METER
- PP. POWER POLE
- LS. LIGHT STANDARD
- WM_⊙ WATER METER
- WV_⊙ WATER VALVE
- ICV_⊙ IRRIGATION CONTROL VALVE
- FH_⊙ FIRE HYDRANT
- CO_⊙ CLEANOUT
- MH_⊙ MANHOLE
- TSC_⊙ TRAFFIC SIGNAL CONTROL
- TSP_⊙ TRAFFIC SIGNAL POLE
- TELE_⊙ TELEPHONE BOX
- FL_⊙ FLOOD LIGHT
- FP_⊙ FLAG POLE
- SIGN_⊙ TRAFFIC SIGN
- IRS 1/2-INCH IRON ROD
- (C.M.) W/"PACHECH KOCH" CAP SET
- CONTROLLING MONUMENT
- PROPERTY LINE
- FENCE
- X- OVERHEAD UTILITY LINE
- E- UNDERGROUND ELECTRIC LINE
- T- UNDERGROUND TELEPHONE LINE
- C- UNDERGROUND CABLE LINE
- 6"-W- UNDERGROUND WATER LINE
- 6"-SS- UNDERGROUND CABLE LINE



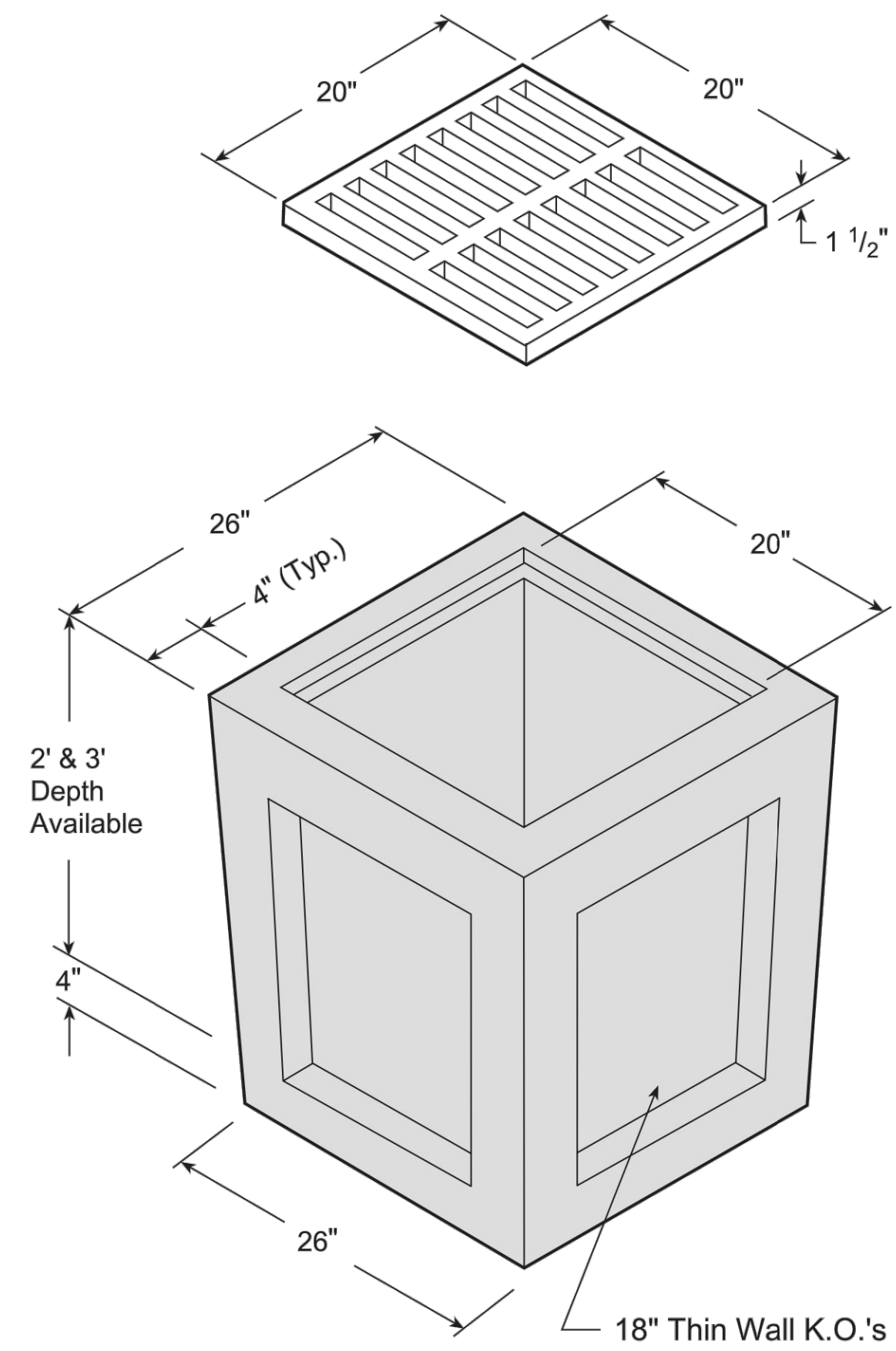
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EXHIBIT J2-UTILITY PLAN			
OLD CENTRAL PARKING LOT			
217 W MCKINNEY ST			
DENTON CENTRAL BUSINESS DISTRICT			
CITY OF DENTON, DENTON COUNTY, TEXAS			
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824	
DRAWN BY	CHECKED BY	SCALE	DATE
JCM	PAC	1"=20'	JUNE 2017
			NO. EX-J2

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 157ADMS\CIVIL_CSD 2015\1778-16\157STORM.DWG

OLD CENTRAL PARKING LOT

Precast Drainage Structures



Materials & Features

MAXIMUM PIPE SIZE: 12" RCP, 15" PVC
 CONCRETE: 5,000 PSI
 REINFORCING: per ASTM A-615 or A-185
 CAST IRON FRAME & GRATE per ASTM A 48; Class 30/35
 GRATE WEIGHT: 78 Lbs.
 CATCH BASIN WEIGHT:
 2' - 800 Lbs.
 3' - 1,100 Lbs.

-No Scale-
 All dimensions subject to allowable
 specification tolerances.

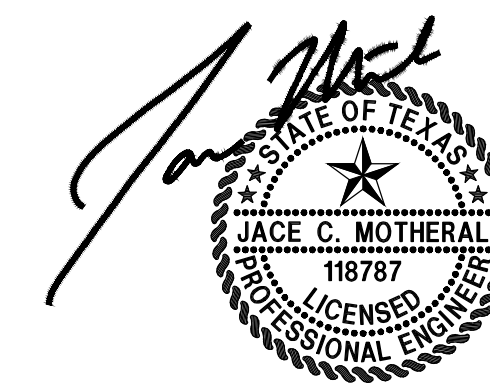
TITLE	PLANT	STATE	SECTION/PAGE	DATE
#20 Catch Basin	Grand Prairie Houston	TX	8.4	Feb 2016



Orifice Flow Calculator

Q = Inlet Capacity (cfs)	Clog 50%
C = Orifice Coefficient	C 0.67
A = Open Area of Inlet (sf)	h 0.50
$g = 32.2 \text{ ft/s}^2$	
h = Depth of Water (ft)	

Grate Inlets			
Nominal	Actual	A (sf)	Q (cfs)
No. 12	18"X18"	0.45	0.86
No. 20	26"X26"	1.25	2.38
No. 24	34"X34"	1.86	3.54
No. 30	42"X42"	3.62	6.88
No. 36	48"X48"	6.75	12.83
No. 48	60"X60"	12.00	22.81



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 ENGINEERING PRACTICE ACT.

EXHIBIT J3-CATCH BASIN DETAILS				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY JCM	CHECKED BY PAC	SCALE	DATE JUNE 2017	NO. EX-J3

LIGHTING FIXTURES						
TYPE	DESCRIPTION	MFR. & CAT. NO.	LAMPS	VOLT	INPUT WATTS	REMARKS
SF1 (LAMP)	EXTERIOR DECORATIVE PEDESTRIAN STREET LIGHT	HADCO #C1891-M, 32 LED	LED	120	49	FURNISHED AND INSTALLED BY DENTON MUNICIPAL ELECTRIC. WAREHOUSE #28576820
SF1 (POLE)	DECORATIVE CONCRETE POLE	LONE STAR PRESTRESS #20004-SJB (WATERFORD SERIES)	N/A	N/A	N/A	FURNISHED AND INSTALLED BY DENTON MUNICIPAL ELECTRIC. WAREHOUSE #21016100
SF2 (LAMP)	POLE MOUNTED PARKING LOT FIXTURE	AEL115-105-RN-120-R2-FG-4B-5N	HPS	120	133	FIXTURE AVAILABLE FOR PURCHASE FROM DENTON MUNICIPAL ELECTRIC. WAREHOUSE #28576450. ELECTRICAL CONTRACTOR TO INSTALL.
SF2 (ARM)	POLE MOUNTED PARKING LOT FIXTURE	MATCH EXISTING	N/A	N/A	N/A	FIXTURE AVAILABLE FOR PURCHASE FROM DENTON MUNICIPAL ELECTRIC. WAREHOUSE #28576040. ELECTRICAL CONTRACTOR TO INSTALL.
SF2 (POLE)	PARKING LOT POLE	MATCH EXISTING	N/A	N/A	N/A	POLE AVAILABLE FOR PURCHASE FROM DENTON MUNICIPAL ELECTRIC. WAREHOUSE NUMBER TO MATCH EXISTING POLES. ELECTRICAL CONTRACTOR TO INSTALL.

NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF FIXTURES IN SPECIFIC CEILING PER LOCATION OF FIXTURES.
2. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES (NEW OR SUBSTITUTES).
3. SUBMITTALS: CONTRACTOR TO PROVIDE SUBMITTAL INCLUDING PRODUCT DATA AND WARRANTY INFORMATION FOR EACH FIXTURE TYPE AND ITS ASSOCIATED BALLAST AND LAMP.
4. WARRANTY: BATTERIES AND BALLASTS SHALL HAVE 10 YEAR AND 5 YEAR WARRANTY PERIOD, RESPECTIVELY.
5. LIGHT FIXTURES: THE DESIGN FOR EACH LIGHT FIXTURE AND EXIT SIGN IS BASED ON THE PRODUCT NAMED IN THE "LIGHT FIXTURE SCHEDULE" ABOVE. UNLESS OTHERWISE NOTED, PROVIDE EITHER THE NAMED PRODUCT OR A COMPARABLE PRODUCT SUBJECT TO COMPLIANCE WITH PROJECT REQUIREMENTS.
6. BALLASTS: REFER TO EXTERIOR LIGHTING SPECIFICATION SECTION.
7. LAMPS: REFER TO EXTERIOR LIGHTING SPECIFICATION SECTION.
8. BURN-IN LAMPS THAT REQUIRE SPECIFIC AGING PERIOD TO OPERATE PROPERLY PRIOR TO OCCUPANCY BY OWNER. ALL NEW FLOURESCENT LAMPS MUST BE BURNED AT 100% INTENSITY FOR 100 CONTINUOUS HOURS PRIOR TO DIMMING THE LAMPS.
9. LIGHTING TO BE INSTALLED BY A CITY OF DENTON PRE-QUALIFIED LIGHTING CONTRACTOR UNLESS NOTED OTHERWISE.
10. CONDUITS SHALL BE A MINIMUM OF 36" DEPTH.
11. LIGHT FIXTURE FOUNDATIONS SHALL BE AT LEAST 5'-0" FROM WATER LINES.

POWER SYMBOLS	
SYMBOL	DESCRIPTION
---	UNDERGROUND CONDUIT
~	CONTINUATION

LIGHTING SYMBOLS	
SYMBOL	DESCRIPTION
DOO	POLE FIXTURE, DOUBLE HEAD

LEGEND NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF FIXTURES PER LOCATION OF FIXTURES.
2. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES, (NEW OR SUBSTITUTES).

LIGHTING CONTROL NARRATIVE

THE FOLLOWING SUMMARY PROVIDES THE DESIGN INTENT FOR LIGHTING CONTROL AND ZONES TO CREATE COMPLIANCE WITH 2013 ASHRAE 90.1. ALTHOUGH THE DESIGN IS AROUND A WATTSTOPPER SYSTEM, THE LIGHTING CONTROL SYSTEM IS NOT RESTRICTED TO BEING PROVIDED BY WATTSTOPPER. REFER TO SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS. THE WATTSTOPPER SYSTEM IS SHOWN TO CONVEY THE INTENDED LEVEL OF QUALITY AND CAPABILITY OF THE SYSTEM.

EXTERIOR LIGHTING SHALL BE CONTROLLED BY BAS SCHEDULING VIA LIGHTING CONTROL PANEL WITH PHOTOCELL OVERRIDE OFF.

APPLICABLE ELECTRICAL CODES
2014 NATIONAL ELECTRICAL CODE
2013 ASHRAE 90.1
2012 IEEE C2 (NESC)

GENERAL NOTES:

- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
- COORDINATE WITH SSC SERVICE SOLUTIONS FOR ACCESS TO ANY SPACES THAT MIGHT BE REQUIRED FOR THE INSTALLATION. UNLESS DIRECTED BY UNIVERSITY ALL EQUIPMENT AND WORKMANSHIP SHALL BE WARRANTED FOR 1 YEAR.
- EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY TARLTON STATE UNIVERSITY AND AVAILABLE RECORD DOCUMENTATION. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO VERIFY EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
- ALL CONDUCTORS FOR BRANCH CIRCUITS OF LESS THAN 600 VOLTS AND GREATER THAN 60" IN LENGTH SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% OVER THE TOTAL LENGTH OF THE CIRCUIT CALCULATED AT 80% OF FULL LOAD OF THE OVERCURRENT DEVICE PROTECTING THE CONDUCTOR. ALL FEEDER CONDUCTORS GREATER THAN 60" IN LENGTH SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% OVER THE TOTAL LENGTH OF THE CIRCUIT CALCULATED AT 80% OF FULL LOAD OF THE OVERCURRENT DEVICE PROTECTING THE CONDUCTOR. CONTRACTOR SHALL PROVIDE PIE-IN-OR ENCLOSED TERMINATION BLOCKS AS REQUIRED TO LAND CIRCUITS ON THE DEVICES OR EQUIPMENT.
- ALL CONDUCTORS FOR BRANCH CIRCUITS OF LESS THAN 600 VOLTS AND LESS THAN 60" IN LENGTH SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
- WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
- ALL CONDUCTORS SHALL BE COPPER. #10 AND SMALLER SHALL BE SOLID. #8 AND LARGER SHALL BE STRANDED. ALL CONTROL WIRING SHALL BE STRANDED.
- NEUTRAL CONDUCTORS FOR BRANCH CIRCUITS OF LESS THAN 600 VOLTS SHALL NOT BE SHARED BETWEEN MULTIPLE SINGLE PHASE CIRCUITS. EACH SINGLE PHASE CIRCUIT SHALL HAVE A FULL SIZE DEDICATED NEUTRAL CONDUCTOR.
- PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN SCOPE OF WORK. OBTAIN UNIVERSITY'S APPROVAL OF IDENTIFICATION. DIRECTORIES SHALL BE TYPED. ALL PANEL DIRECTORIES SHALL CONTAIN THE MINIMUM INFORMATION AS REQUIRED BY NEC 408.4.
- ELECTRIC CONNECTIONS TO PANELBOARDS AND TRANSFORMERS SHALL BE MADE ONLY WHEN PANELBOARD/TRANSFORMER HAS BEEN DE-ENERGIZED. SCHEDULE DOWN TIME WITH UNIVERSITY.
- COORDINATE WITH OTHER DISCIPLINES PRIOR TO ROUGH-IN.
- REFER TO CIVIL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND DETAILS.
- REFER TO CIVIL DEMOLITION DRAWINGS FOR DEMOLITION SCOPE.

PANELBOARD L2									
VOLT: 240 / 120		PH: 1		WIRE: 3		AIC RATING: 65,000		BY: PMI	
MAIN AMPS: 50 AMP, MCB				MOUNTING: SURFACE		PROJECT: OLD CENTRAL PARK/		PMI NO.: 17079.001	
LOAD DESCRIPTION	POLES & AMPS	CONNECTED LOAD				CONNECTED LOAD			
		VOLT - AMPS		A		B		VOLT - AMPS	
PARKING LOT LIGHTING	20/1	665	1	1	2	2	2	20/1	SPARE
IRRIGATION CONTROLLER	20/1		600	3	4	4	4	20/1	SPARE
SPARE	20/1			5	6	6	6	20/1	SPARE
SPARE	20/1			7	8	8	8	20/1	SPARE
SPARE	20/1			9	10	10	10	20/1	SPARE
SPARE	20/1			11	12	12	12	20/1	SPARE
		TOTAL PHASE 'A'		665					
		TOTAL PHASE 'B'		600					
TOTAL LIGHTING	665	X 1.25							831
TOTAL KITCHEN	0	X 0.65							0
TOTAL RECEPTACLE	0	X 0.50	>10kva						0
TOTAL MISC EQUIPMENT	600	X 1.00							600
TOTAL HVAC/MOTOR	0	X 1.00							0
TOTAL NONCOINCIDENTAL	0	X 1.00							0
LARGEST MOTOR	0	X 1.25							0
TOTAL CONN. LOAD	1265	TOTAL DEMAND LOAD							1431
DIVERSIFIED DESIGN LOAD	1431	/	240	=					6

REMARKS: NEMA-3R ENCLOSURE

SUMMARY OF CONDUIT							
RUN NO.	CONDUIT				DME FURNISH	CONTRACTOR FURNISH	CONTRACTOR INSTALL
	SIZE		LENGTH IN FEET	BORE (B) TRENCH (T)			
	PROP.	EXIST.					
R-1	1-2 1/2"		70	T	X		X
R-2	1-2"		50	T	X		X
R-3	1-2"		70	T	X		X
R-4	1-2"		90	T	X		X
R-5	1-2"		75	T	X		X
R-6	1-2"		85	T	X		X
R-7	1-2"		125	T		X	X
R-8	1-2"		25	T		X	X
R-9	1-2"		80	T		X	X
R-10	1-2"		120	T		X	X
R-11	1-2"		80	T		X	X
R-12	1-2"		95	T		X	X
CABLE TOTALS (LF)			965				

CONTRACTOR SHALL CONFIRM FEEDER LENGTHS IN FIELD PRIOR TO CONSTRUCTION. LENGTHS ARE GIVEN AS AN ESTIMATE AS REQUESTED BY THE CITY OF DENTON.



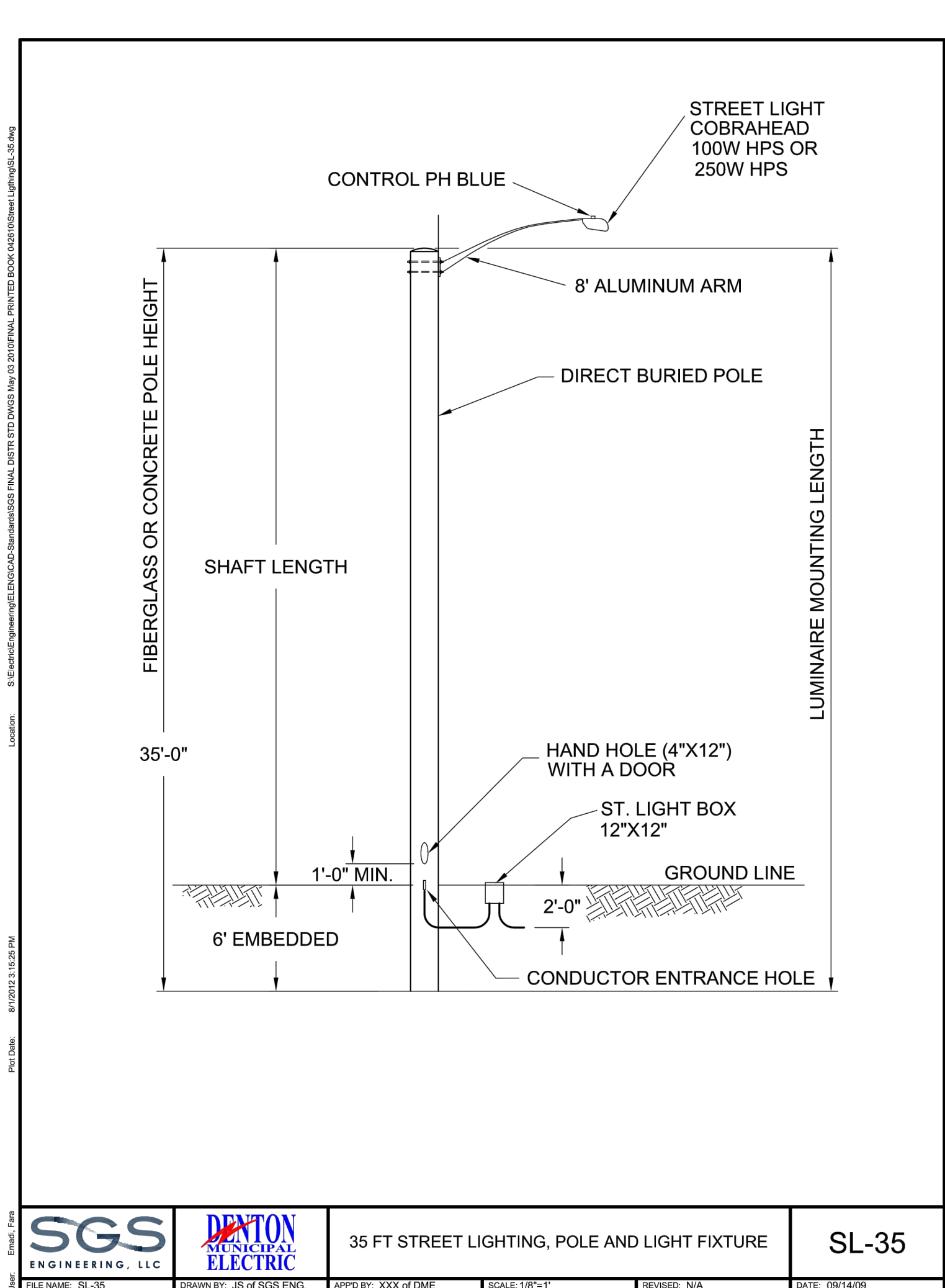
Purdy - McQuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, Texas 75248-1147
Firm Registration # F-1511
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcquire.com

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PMI JOB NO. 16052.002
PROJECT MGR. SCOTT BROWN

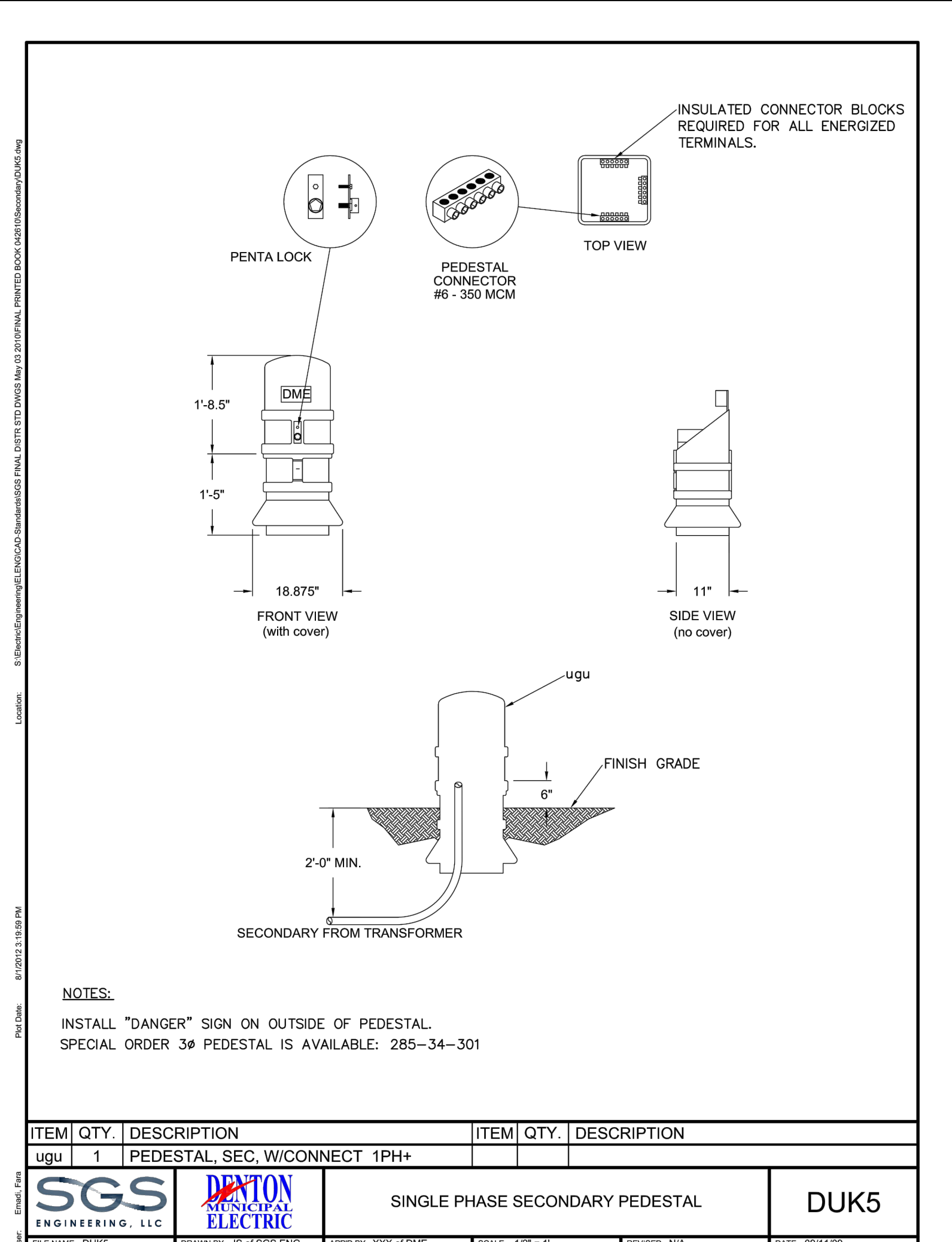
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

EXHIBIT J4-ELEC. NOTES & SYMBOLS				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY PM	CHECKED BY PM	SCALE NOT TO SCALE	DATE AUGUST 2017	NO. EX-J4

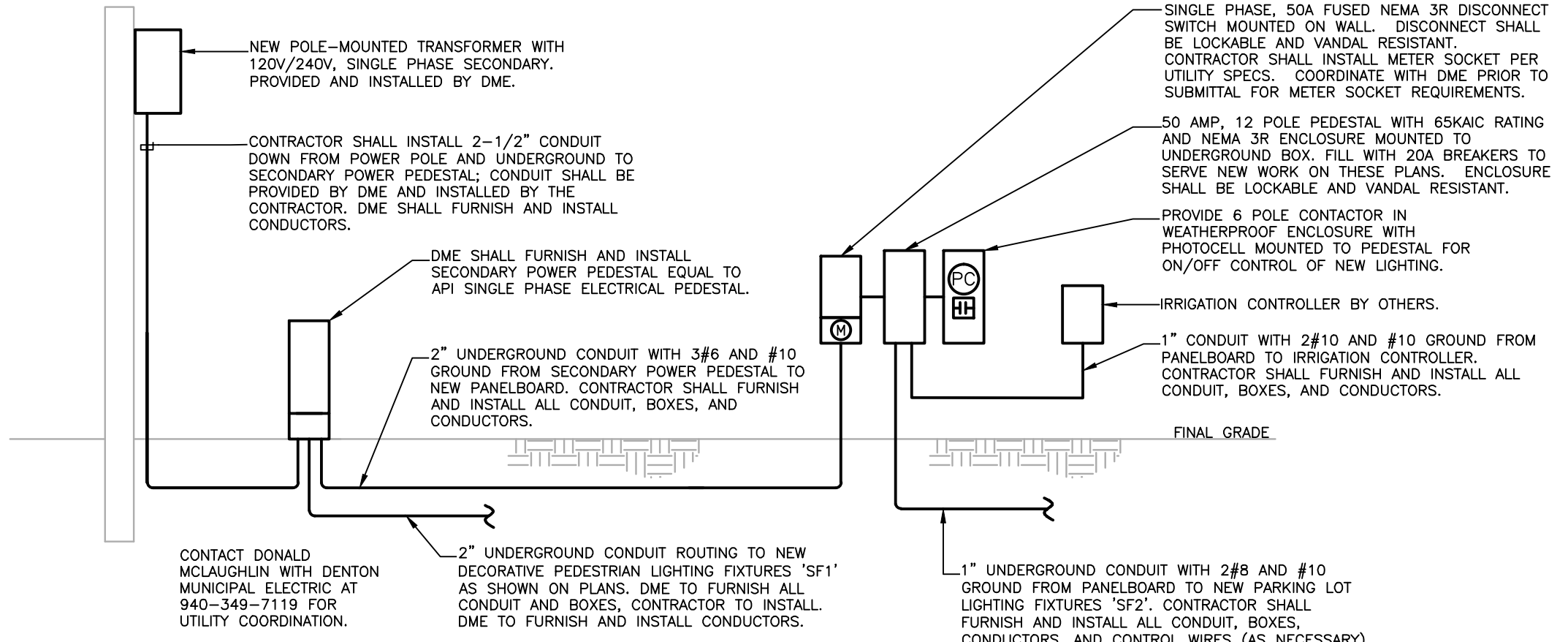
OLD CENTRAL PARKING LOT



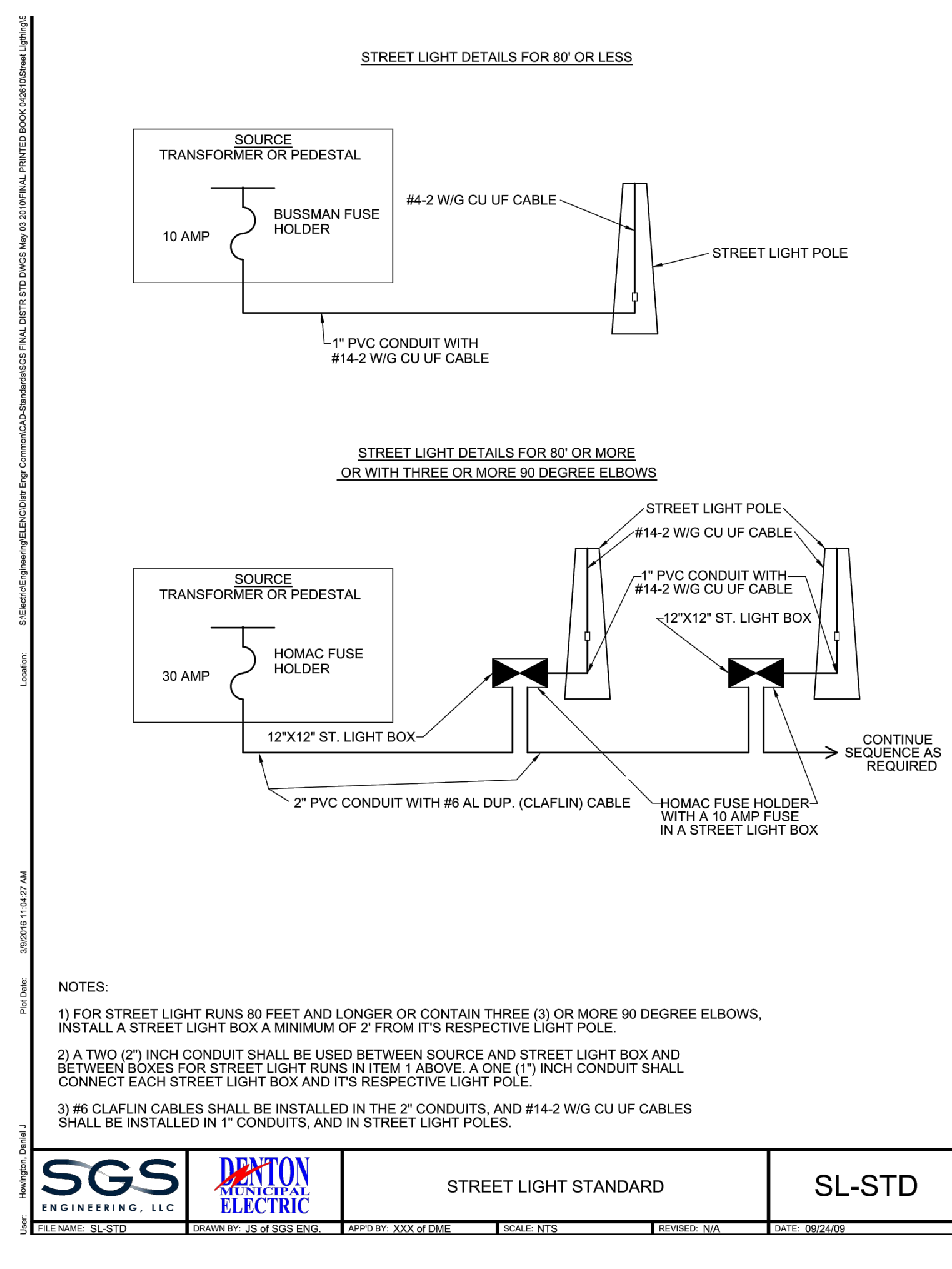
		35 FT STREET LIGHTING, POLE AND LIGHT FIXTURE	SL-35
FILE NAME: SL-35	DRAWN BY: JS OF SGS ENG	APP'D BY: XXXX OF DME	SCALE: 1/8" = 1'



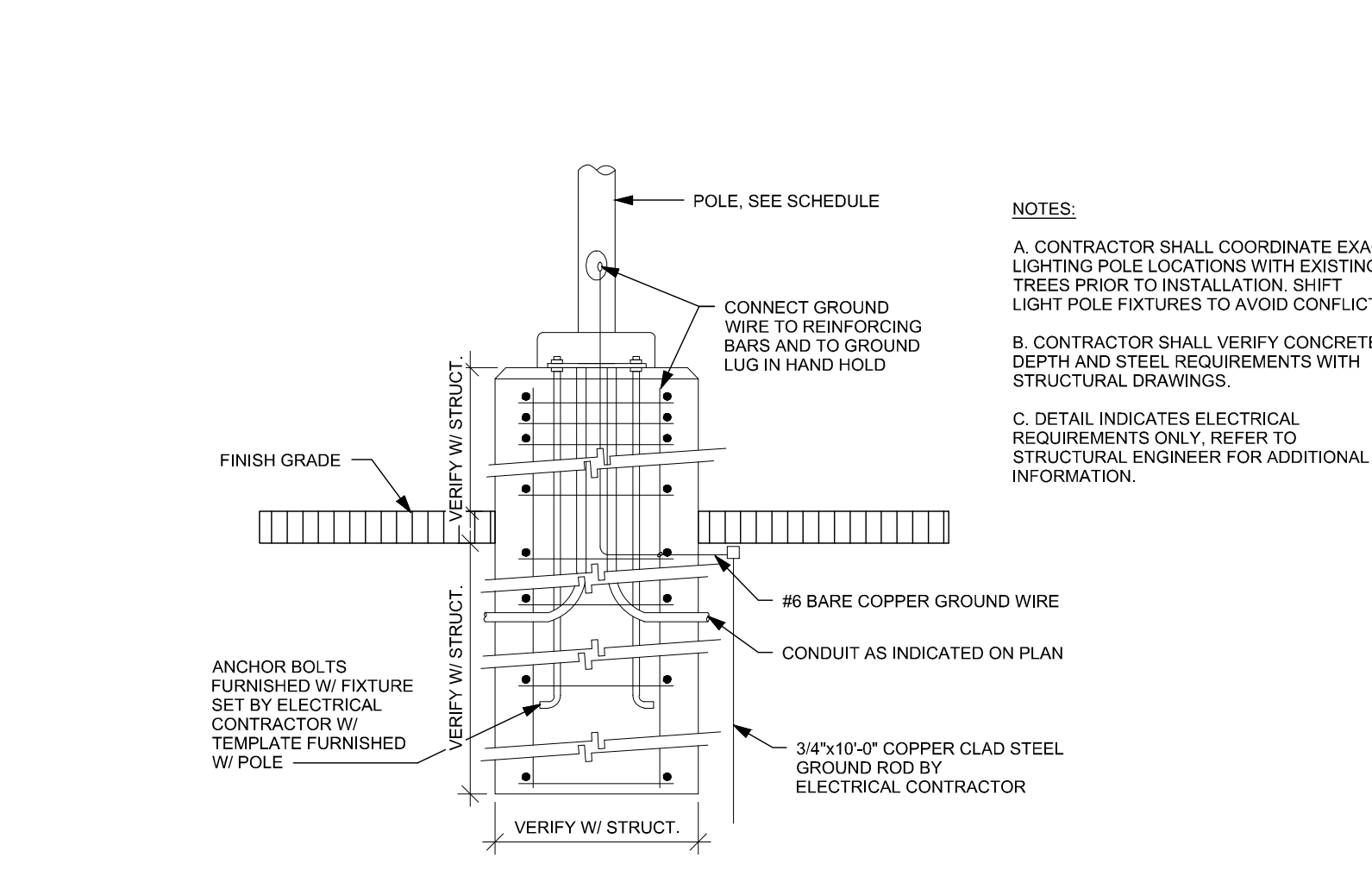
		SINGLE PHASE SECONDARY PEDESTAL	DUK5
FILE NAME: DUK5	DRAWN BY: JS OF SGS ENG	APP'D BY: XXXX OF DME	SCALE: 1/2" = 1'



① TYPICAL UNDERGROUND ELECTRICAL SERVICE FROM POWER POLE DETAIL
SCALE: NOT TO SCALE



		STREET LIGHT STANDARD	SL-STD
FILE NAME: SL-STD	DRAWN BY: JS OF SGS ENG	APP'D BY: XXXX OF DME	SCALE: NTS



② POLE BASE DETAIL
SCALE: NOT TO SCALE

Purdy - McGuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, Texas 75248-1147
Firm Registration # F-1511
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com
© 2007
PMI JOB NO. 16052.002
PROJECT MGR. SCOTT BROWN
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC., DALLAS, TX

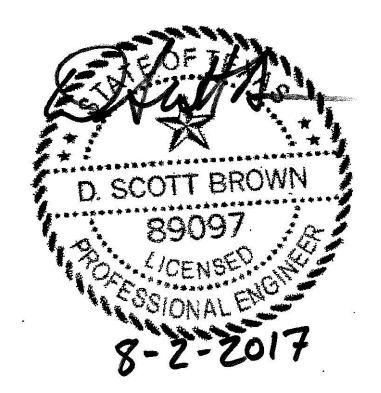
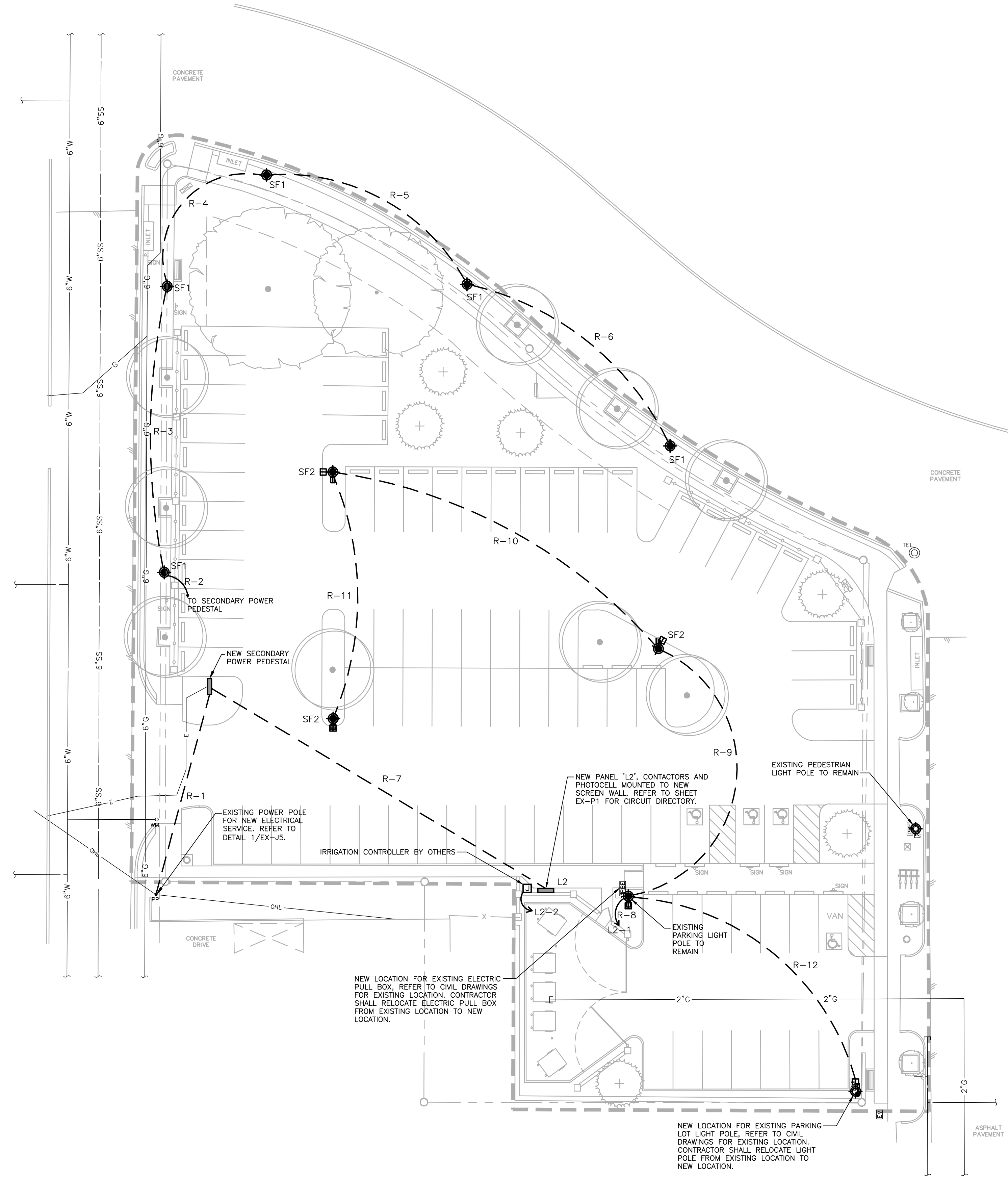


EXHIBIT J5-ELECTRICAL DETAILS			
OLD CENTRAL PARKING LOT			
217 W MCKINNEY ST			
DENTON CENTRAL BUSINESS DISTRICT			
CITY OF DENTON, DENTON COUNTY, TEXAS			
		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824	
DRAWN BY PMB	CHECKED BY PMB	SCALE NOT TO SCALE	DATE AUGUST 2017
			NO. EX-J5

OLD CENTRAL PARKING LOT



1 ELECTRICAL SITE PLAN
SCALE: 1"=20'-0"

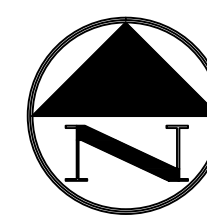


Purdy - McGuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, Texas 75248-1147
Firm Registration # F-1511
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

© 2007
PMI JOB NO. 16052.002
PROJECT MGR. SCOTT BROWN

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC., DALLAS, TX

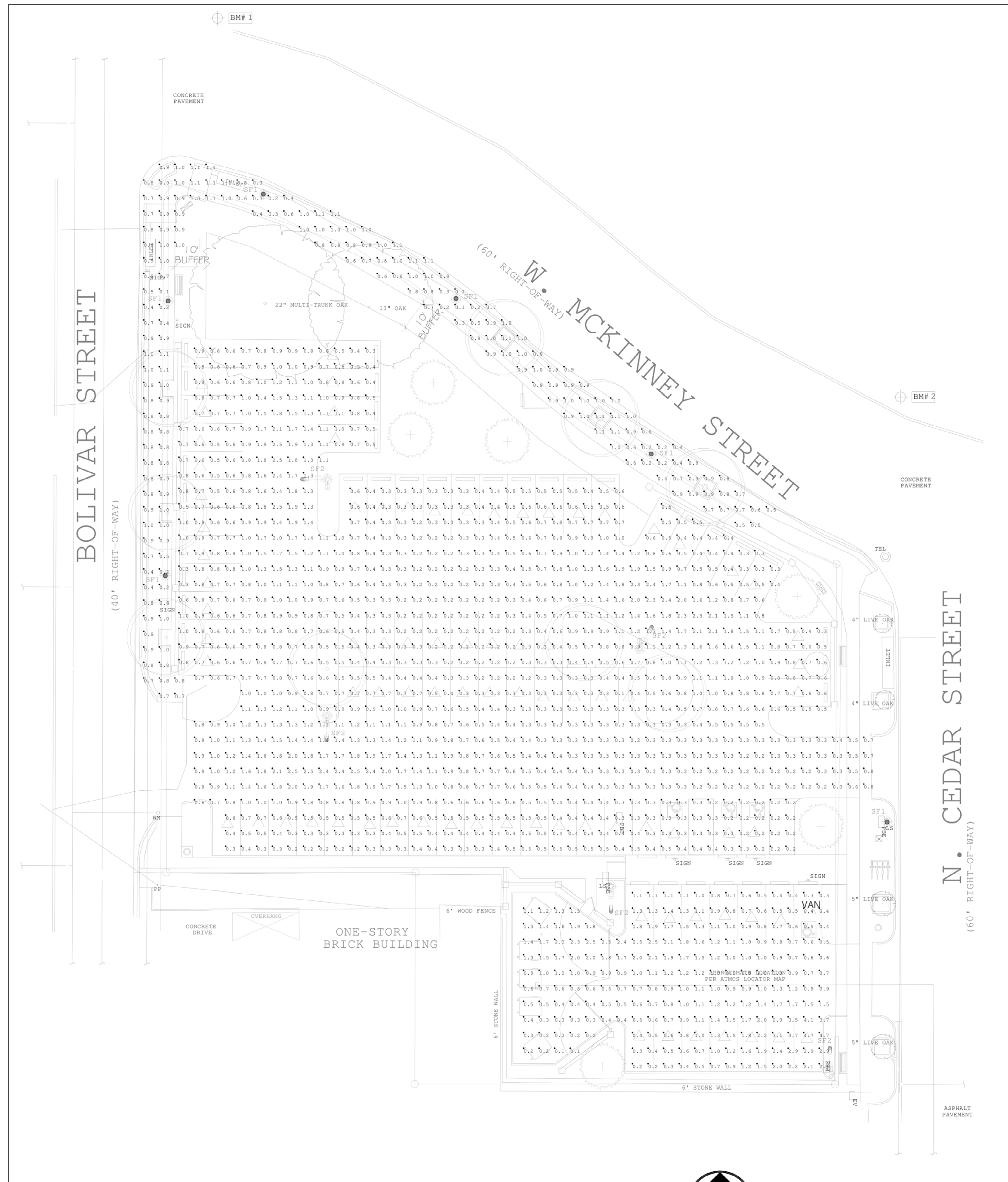
EXHIBIT J6-ELECTRICAL SITE PLAN
OLD CENTRAL PARKING LOT
217 W MCKINNEY ST
DENTON CENTRAL BUSINESS DISTRICT
CITY OF DENTON, DENTON COUNTY, TEXAS



Pacheco Koch 6100 WESTERN PLACE, SUITE 1001
FORT WORTH, TX 76107 817.412.7155
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-10193824

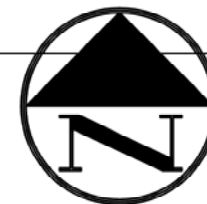
DRAWN BY PMB	CHECKED BY PMB	SCALE 1"=20'-0"	DATE AUGUST 2017	NO. EX-J6
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OLD CENTRAL PARKING LOT



PHOTOMETRIC CALCULATIONS ARE SHOWN FOR REFERENCE ONLY. THIS CALCULATION IS BASED ON AN OPEN AREA AND OBSTRUCTIONS WITHIN THIS AREA WILL AFFECT FINAL LIGHTING LEVELS.

1 SITE PHOTOMETRIC PLAN
SCALE: NOT TO SCALE

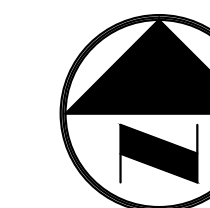


Purdy - McGuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, Texas 75248-1147
Firm Registration # F-1511
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

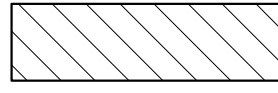
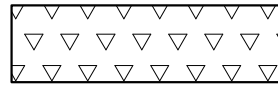
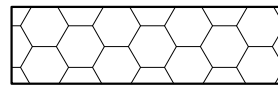
© 2007
PMI JOB NO. 16052.002
PROJECT MGR. SCOTT BROWN
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-MCGUIRE, INC. DALLAS, TX

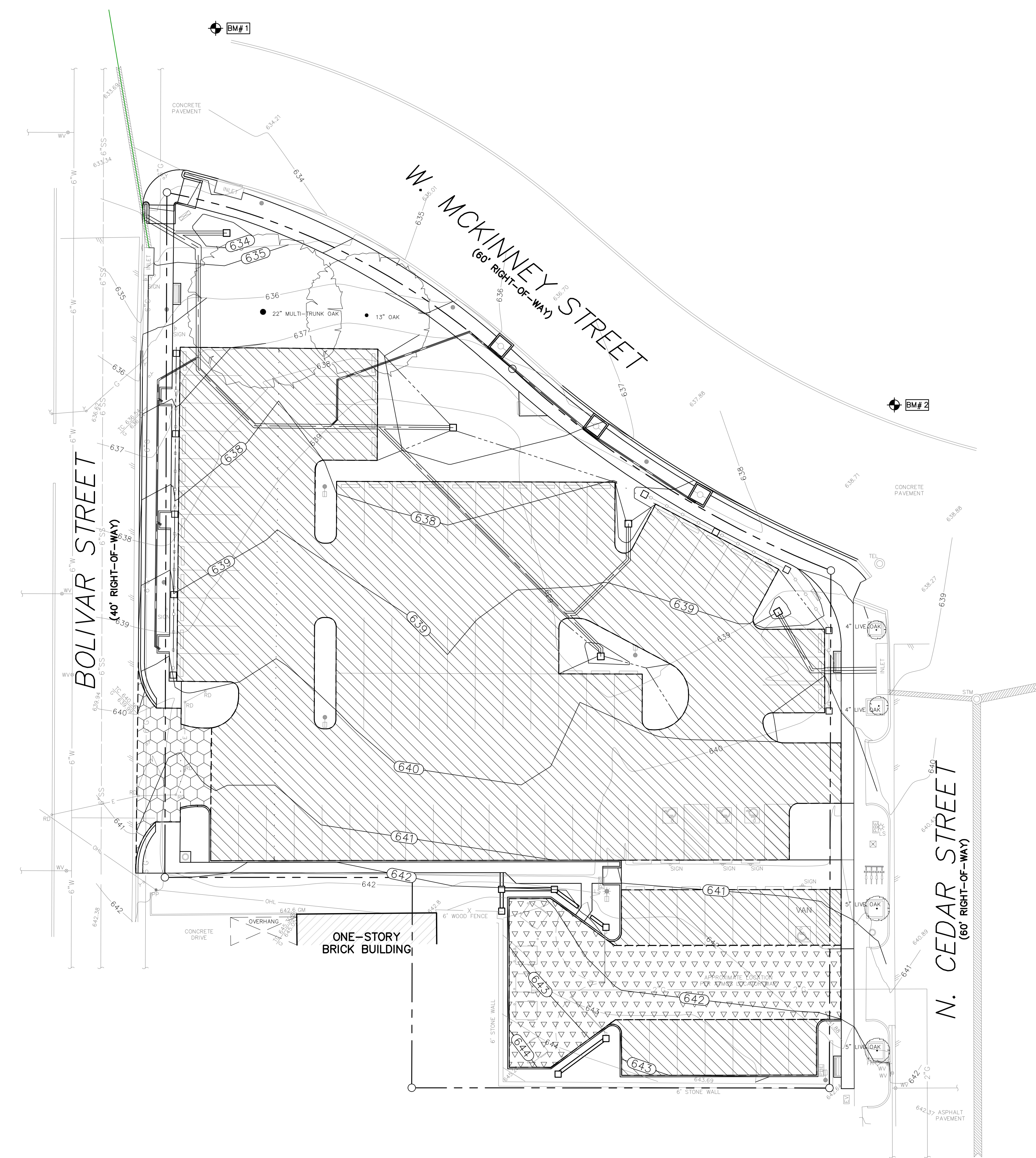
EXHIBIT J7-SITE PHOTOMETRIC PLAN				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
<small>DRAWN BY</small> PMB	<small>CHECKED BY</small> PMB	<small>SCALE</small> NOT TO SCALE	<small>DATE</small> AUGUST 2017	<small>NO.</small> EX-J7

OLD CENTRAL PARKING LOT



LEGEND

-  PARKING AND DRIVE AREAS, 5" REINFORCED CONCRETE PAVEMENT (CLASS "C", 3600 PSI)
-  DUMPSTER AREA, 7" REINFORCED CONCRETE PAVEMENT (CLASS "C", 3600 PSI)
-  BOLIVAR STREET DRIVE APPROACH, 8" REINFORCED CONCRETE PAVEMENT (CLASS "C", 3600 PSI)

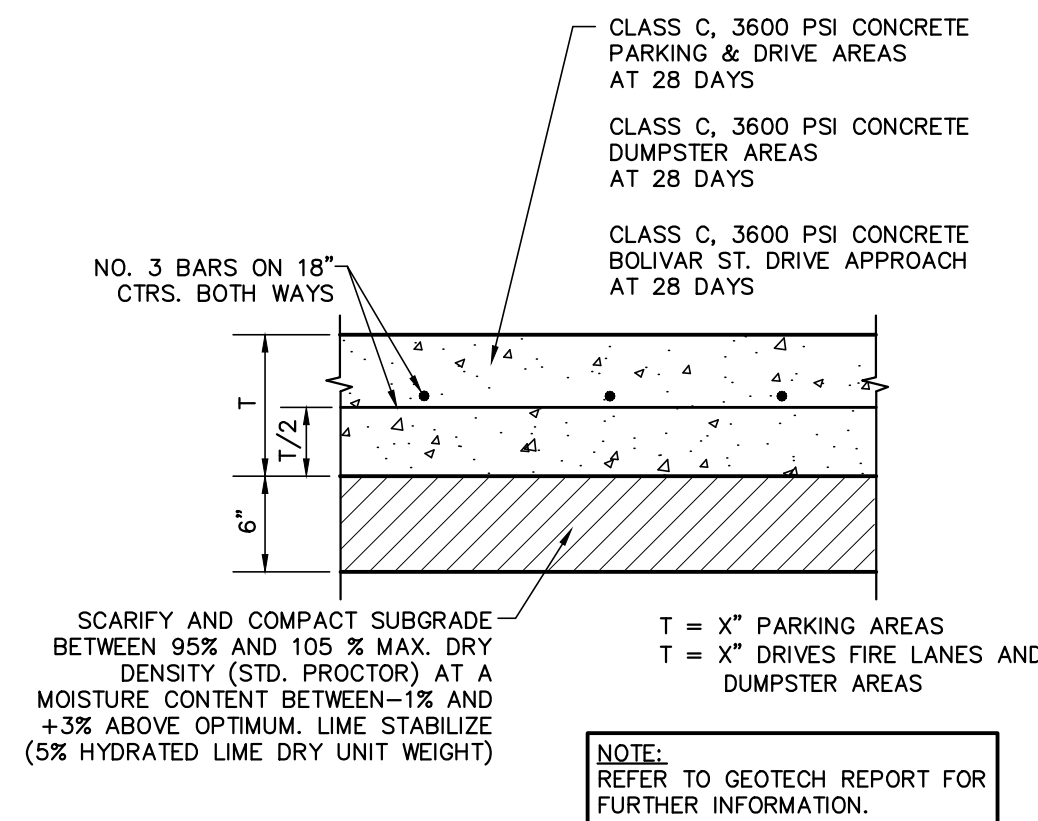


THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JACE C. MOTHERAL, P.E. 118787 ON 06/23/2017, ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

EXHIBIT 1-PAVING PLAN				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY CRR	CHECKED BY NGN	SCALE 1"=20'	DATE JUNE 2017	NO. EX-1

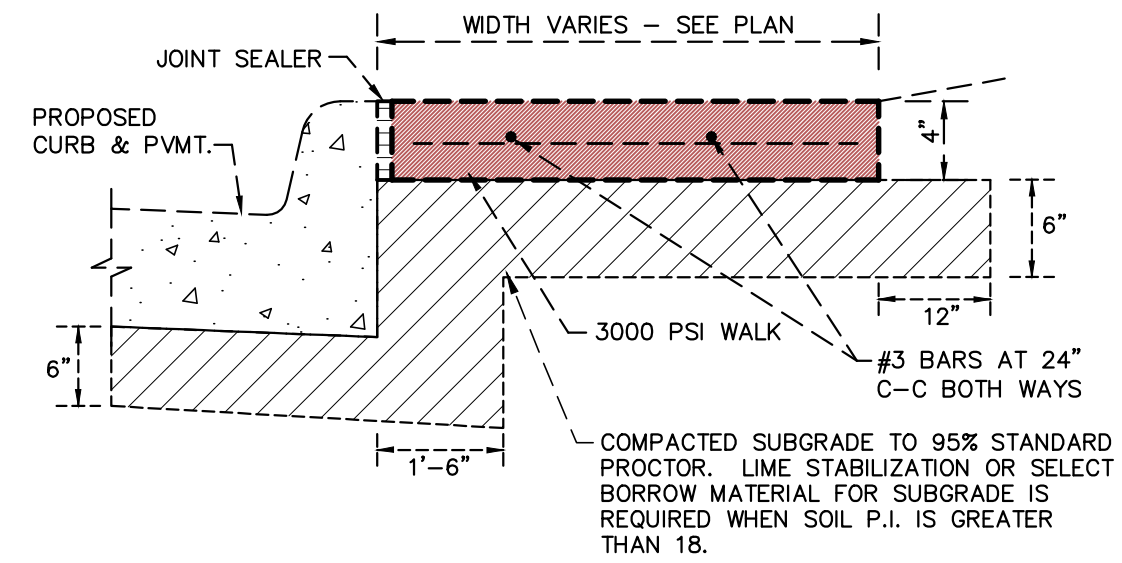
CROWZIE 06/21/17 8:21 AM
 J:\DWG-17\3778-16\57\DWG\LANDSCAPE_C3D_2015\3778-16.157 -
 06/23/2017 10:00 AM

OLD CENTRAL PARKING LOT



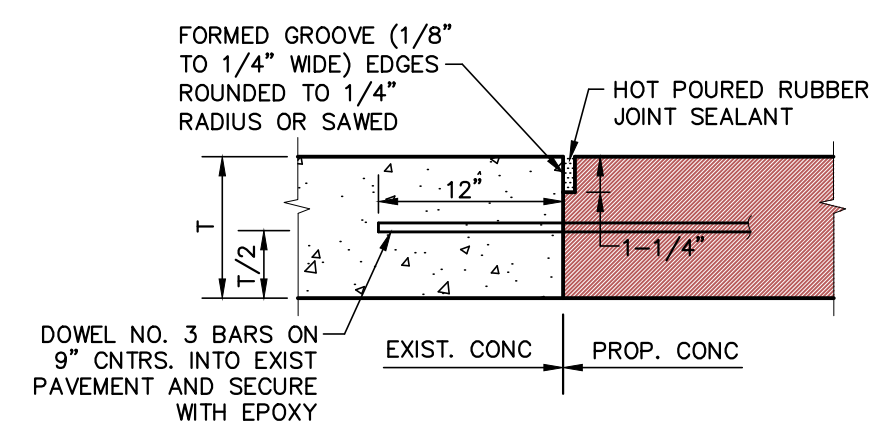
1 CONCRETE PAVEMENT SECTION

NOT TO SCALE



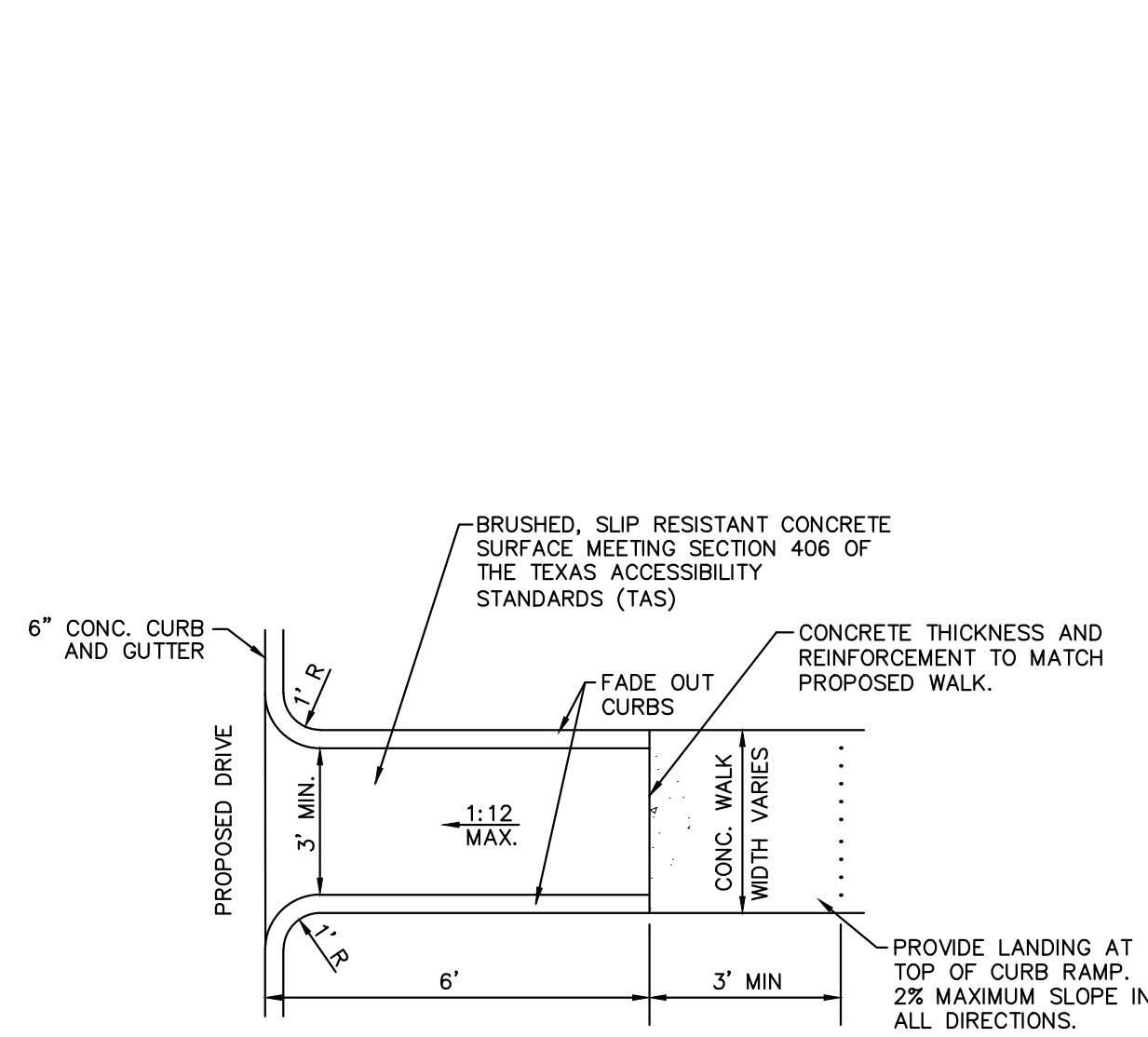
2 WALK AT PROPOSED CURB

NOT TO SCALE



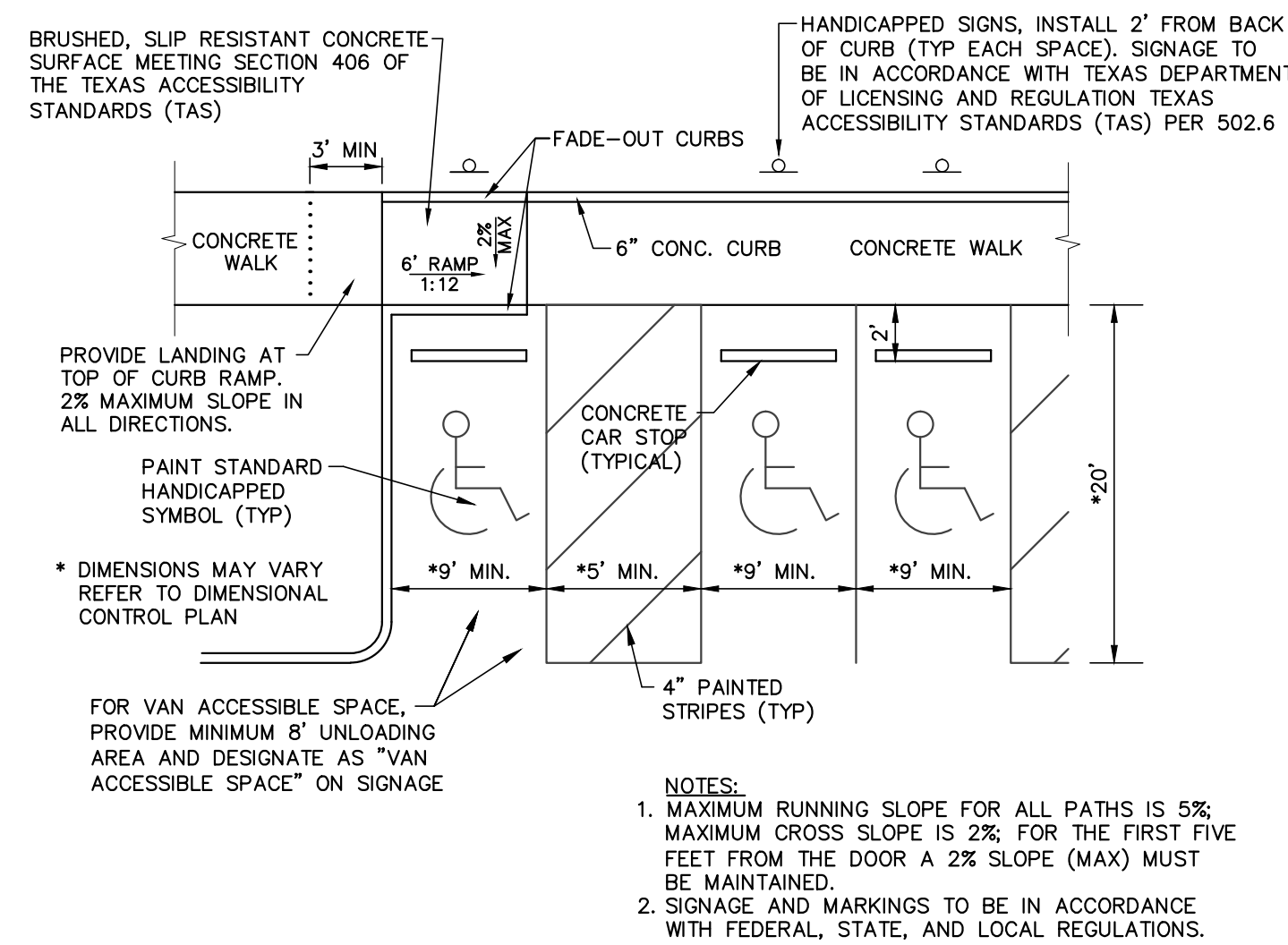
3 PAVEMENT CONNECTION

NOT TO SCALE



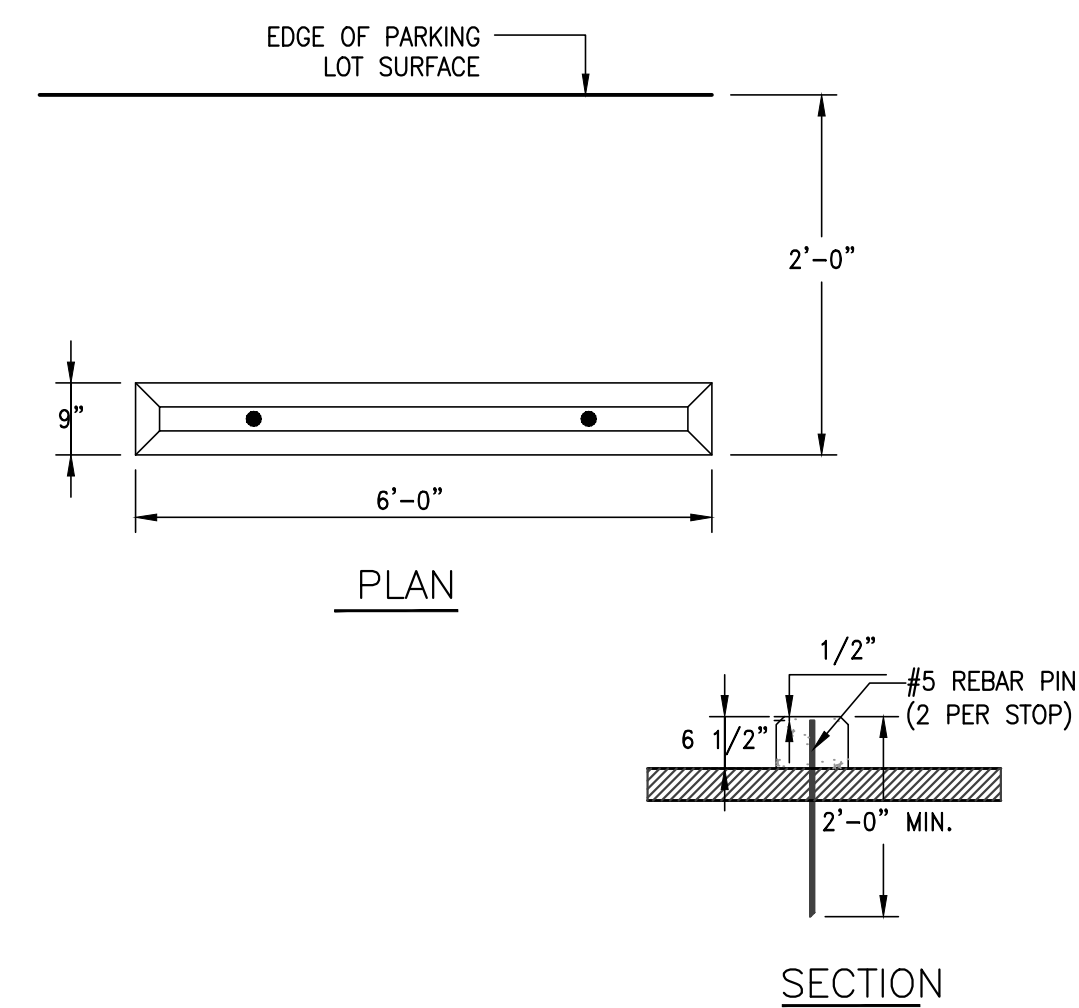
4 SINGLE CURB RAMP

NOT TO SCALE (PRIVATE ONLY)



5 90° HANDICAP PARKING & SINGLE CURB RAMP

NOT TO SCALE



9 WHEEL STOP DETAIL

NOT TO SCALE



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JACE C. MOTHERAL, P.E. 118787 ON 06/23/2017. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

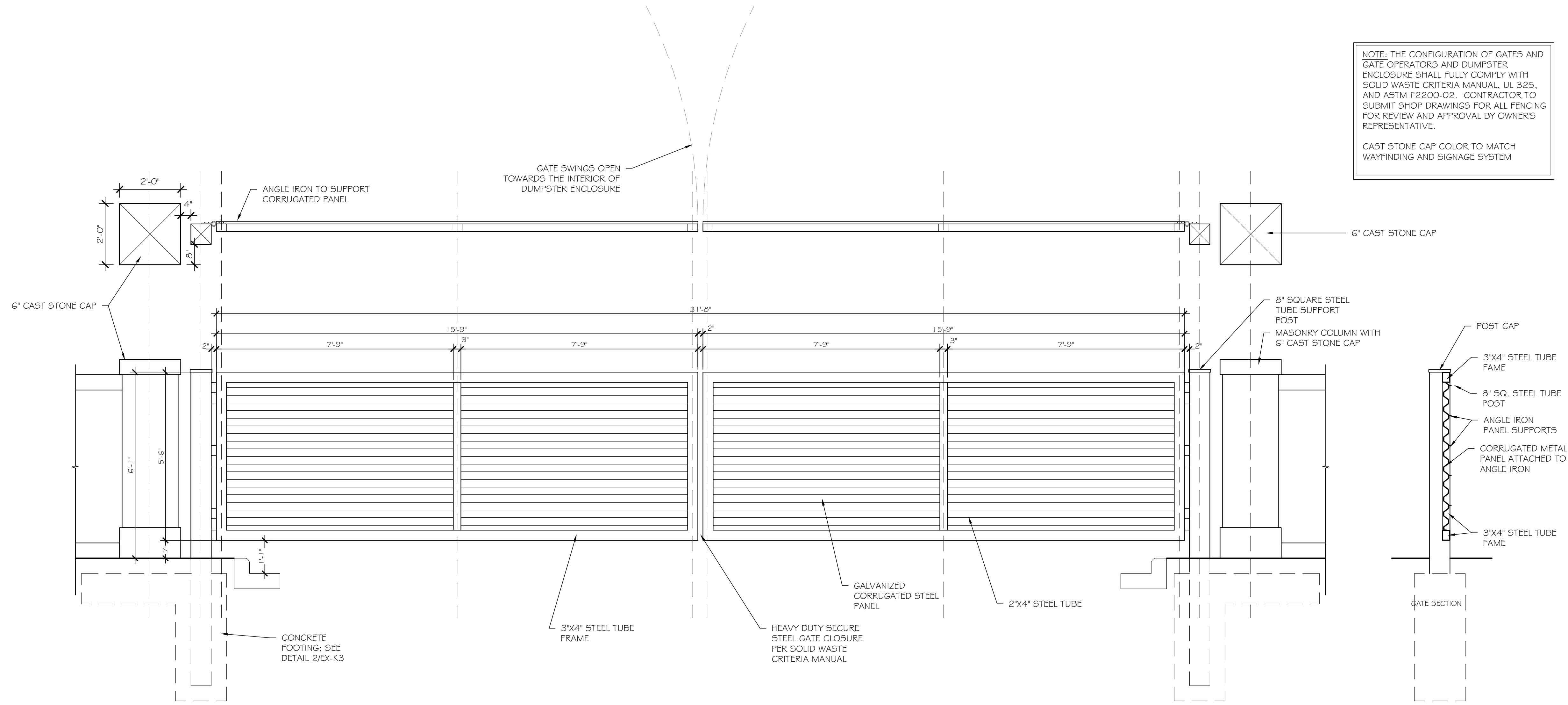
EXHIBIT 2-PAVING DETAILS				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY	CHECKED BY	SCALE	DATE	NO.
CRR	NGN	AS SHOWN	JUNE 2017	EX-2

OLD CENTRAL PARKING LOT

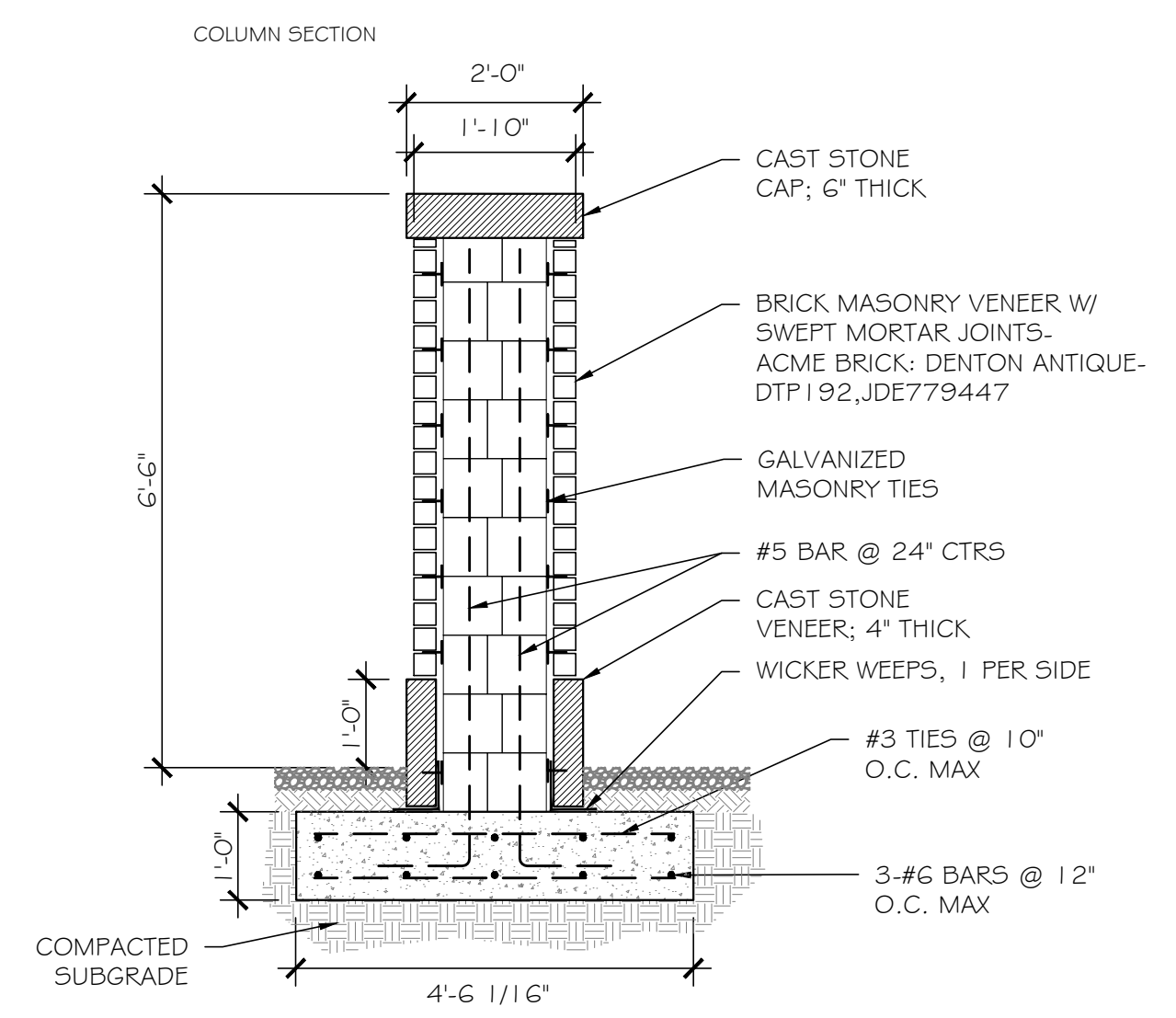
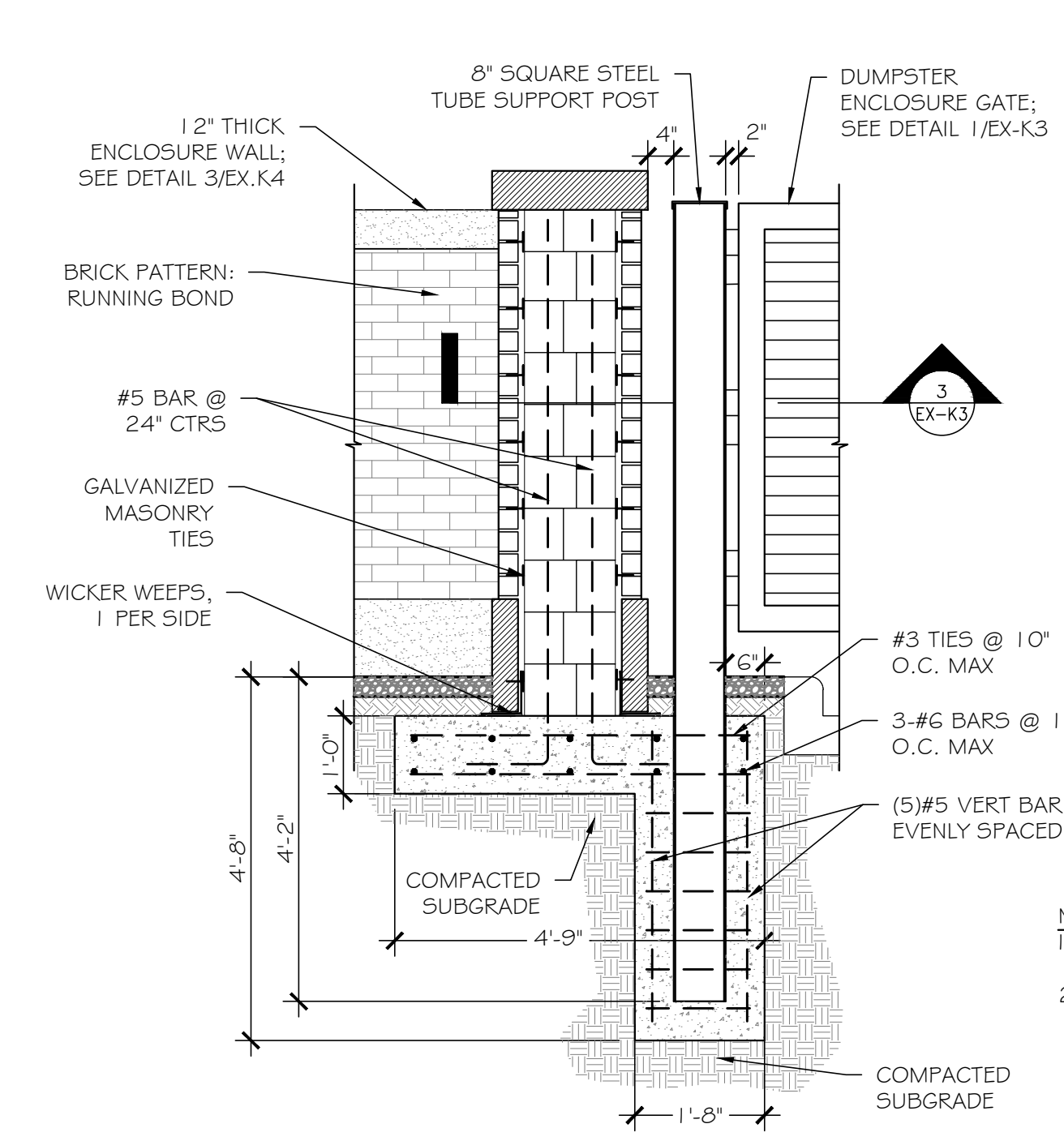
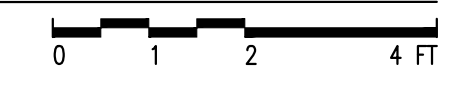
CROWZIE 017_8:21 AM
J:\DWG-37\3778-16\57\DWG\LANDSCAPE_C3D_2015\3778-16.157 -

NOTE: THE CONFIGURATION OF GATES AND GATE OPERATORS AND DUMPSTER ENCLOSURE SHALL FULLY COMPLY WITH SOLID WASTE CRITERIA MANUAL, UL 325, AND ASTM F2200-02. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL FENCING FOR REVIEW AND APPROVAL BY OWNERS REPRESENTATIVE.

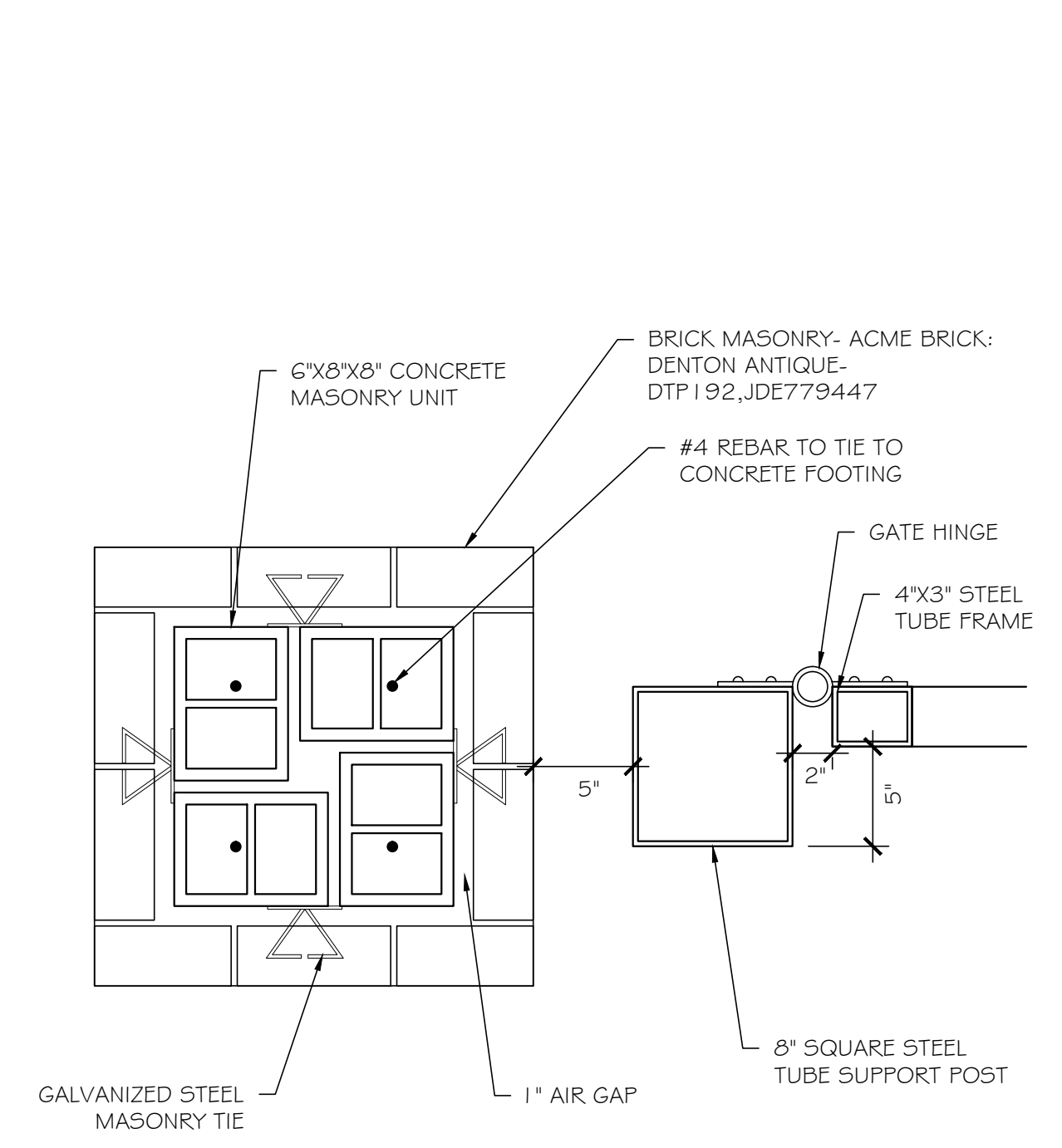
CAST STONE CAP COLOR TO MATCH WAYFINDING AND SIGNAGE SYSTEM



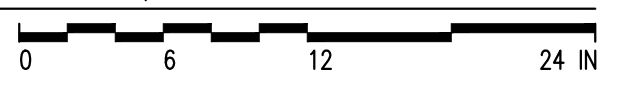
1 DUMPSTER ENCLOSURE - COLLECTION GATE/SCREEN
1/2" = 1'-0"



NOTE:
1. COMPACTED SUBGRADE - COMPACT TO 95% STANDARD PROCTOR DENSITY AT 0 TO +/- 2% OPTIMUM MOISTURE CONTENT AS PER ASTM D 698 (TYP.)
2. EXPANSION JOINTS & CONTROL JOINTS SHALL BE LOCATED ACCORDING TO THE FOLLOWING.
EJ: CHANGES IN DIRECTION, MAX 75' O.C., AGAINST CURBS, BUILDINGS, AND MANHOLES.
CJ: SPACED EVENLY TO PRODUCE SQUARE MODULES UP TO 8' O.C. MAX



3 MASONRY COLUMN & GATE/SCREEN POST
1-1/2" = 1'-0"



2 DUMPSTER ENCLOSURE - COLUMN AND GATE/SCREEN POST FOOTING
1/2" = 1'-0"

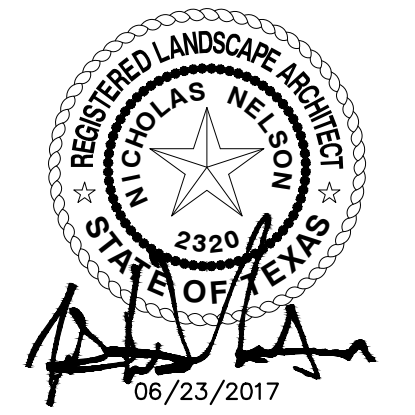
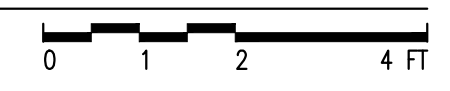
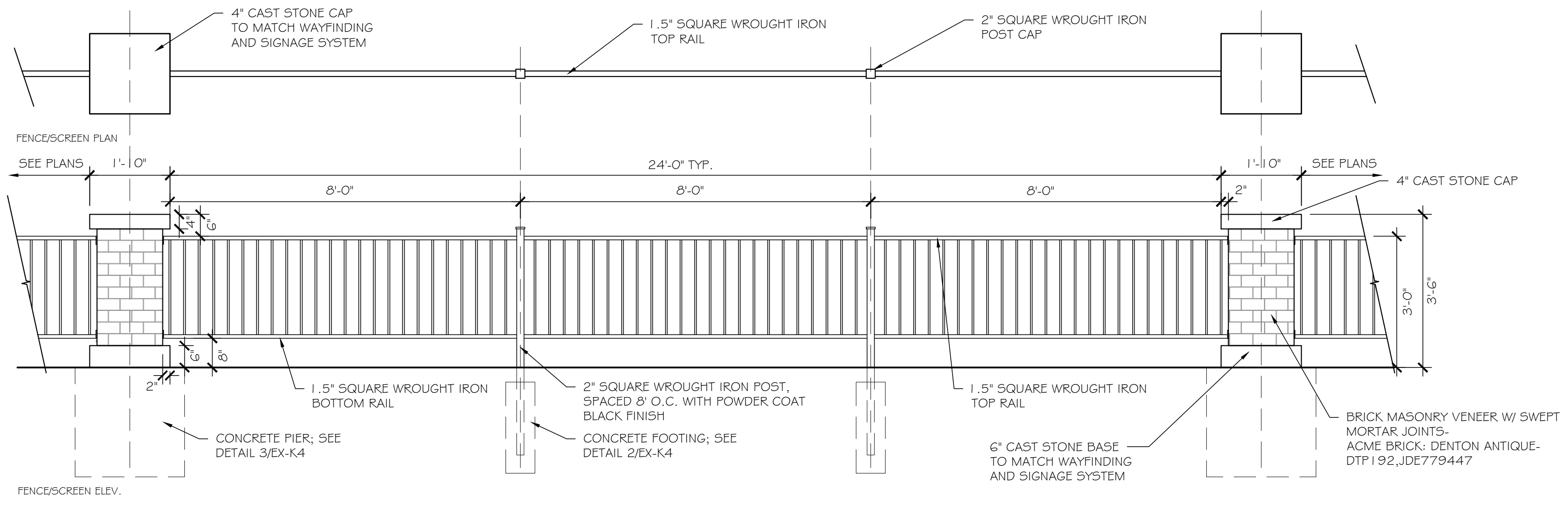


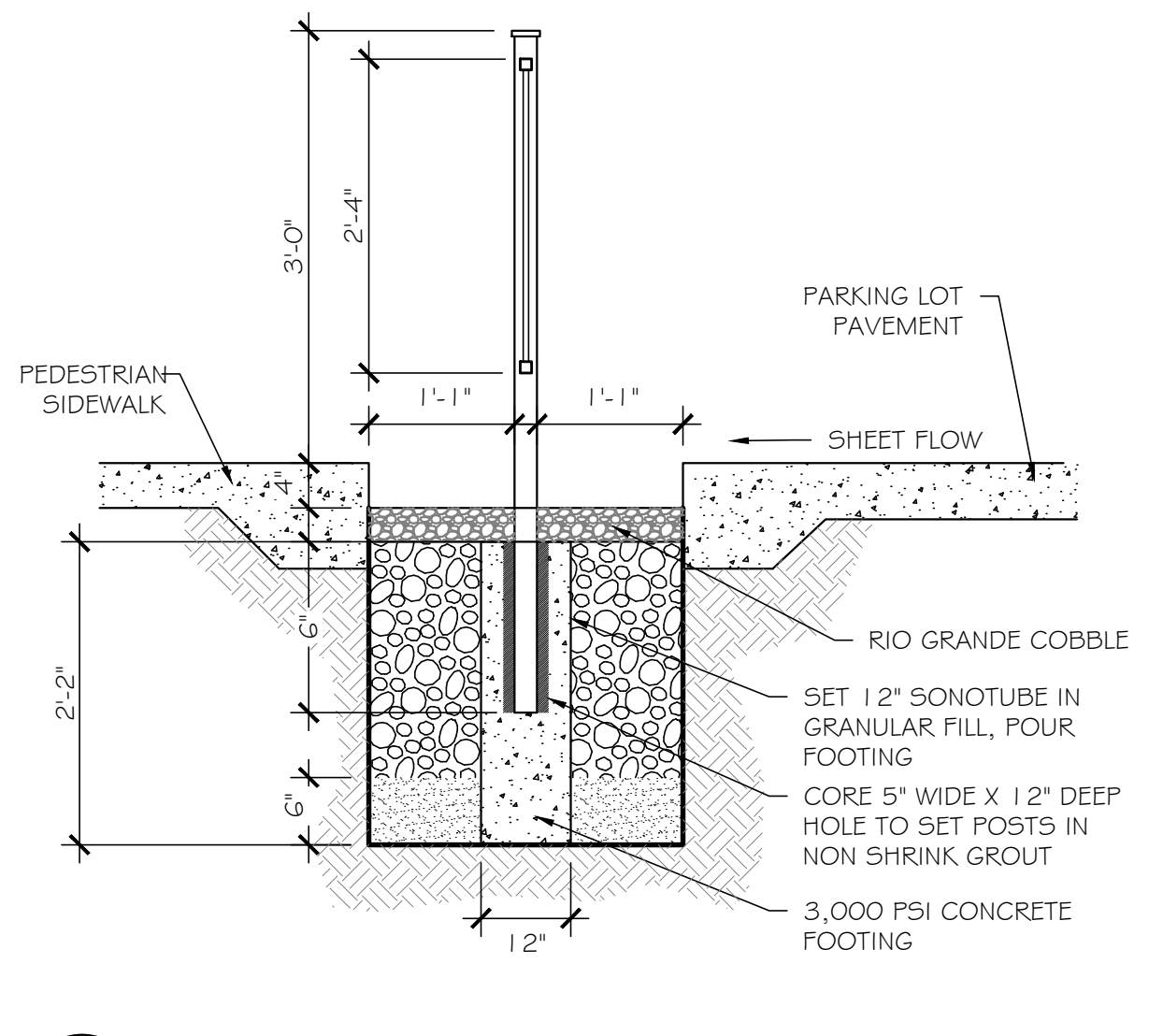
EXHIBIT 3-HARDSCAPE DETAILS			
OLD CENTRAL PARKING LOT			
217 W MCKINNEY ST			
DENTON CENTRAL BUSINESS DISTRICT			
CITY OF DENTON, DENTON COUNTY, TEXAS			
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824	
DRAWN BY CRR	CHECKED BY NGN	SCALE AS SHOWN	DATE JUNE 2017
			NO. EX-3

CROWZIE 07_06_21 AM
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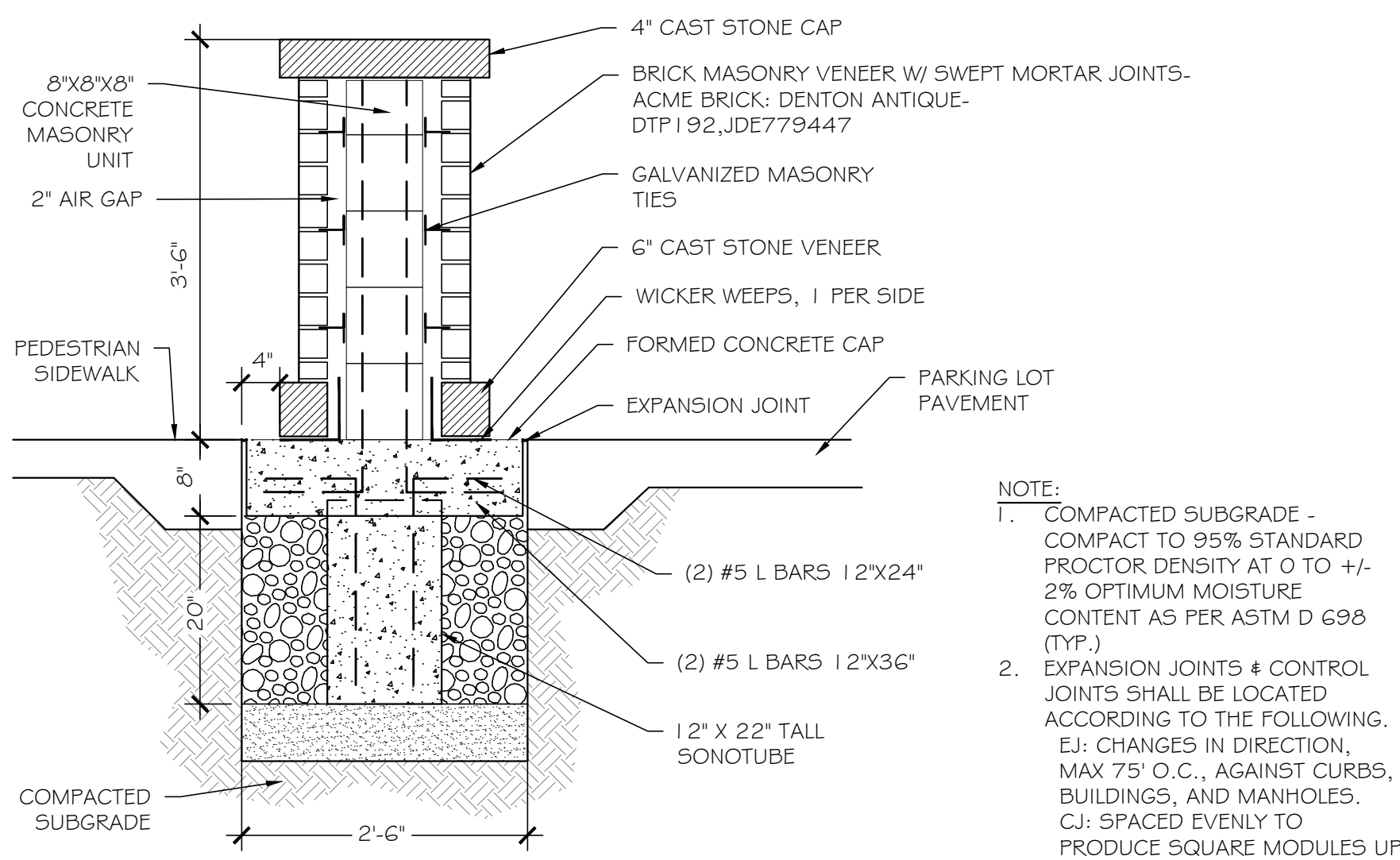
OLD CENTRAL PARKING LOT



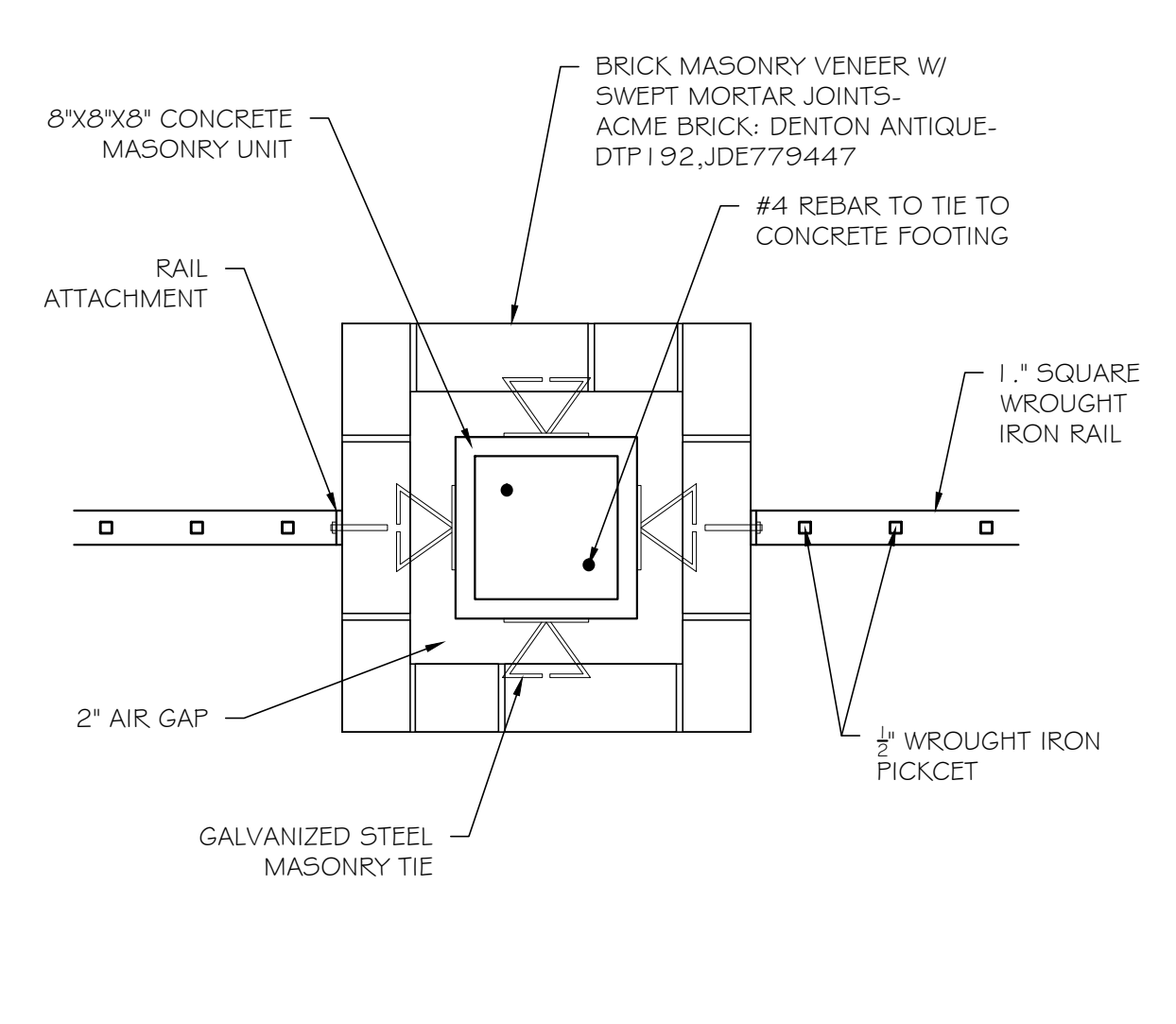
1 PARKING LOT FENCE/SCREEN
1/2" = 1'-0"



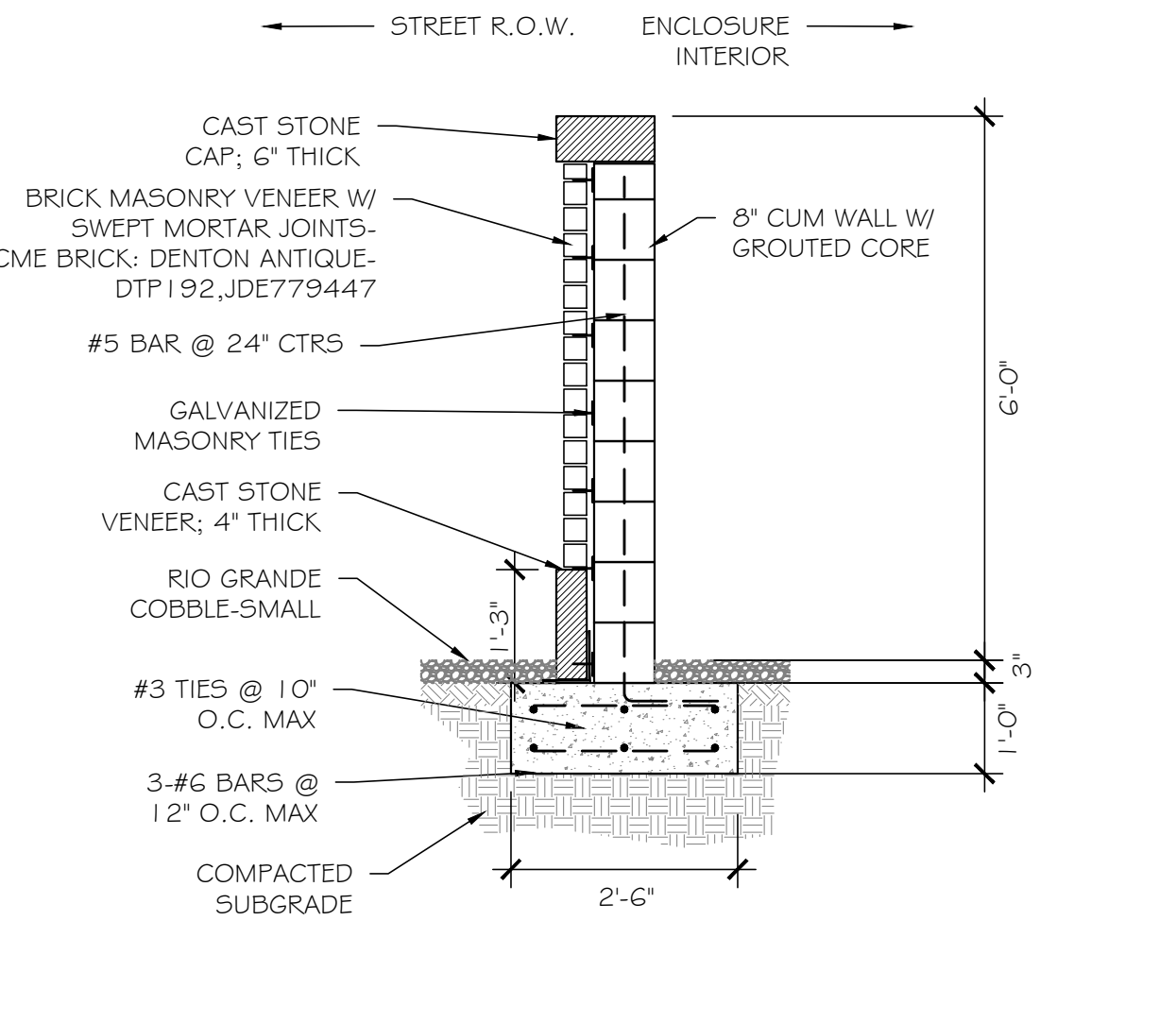
2 WROUGHT IRON FENCE POST FOOTING
3/4" = 1'-0"



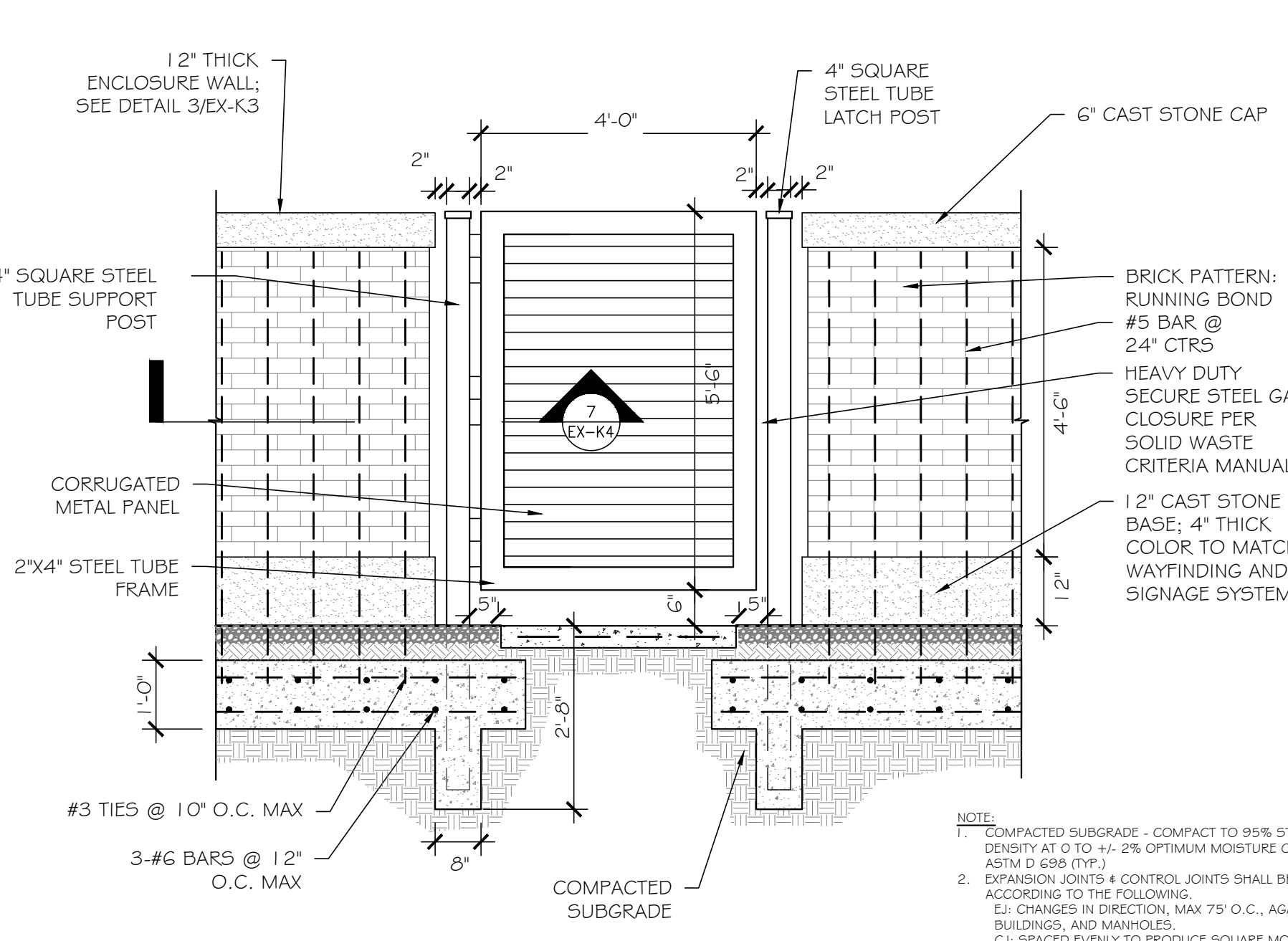
3 FENCE MASONRY COLUMN SECTION
3/4" = 1'-0"



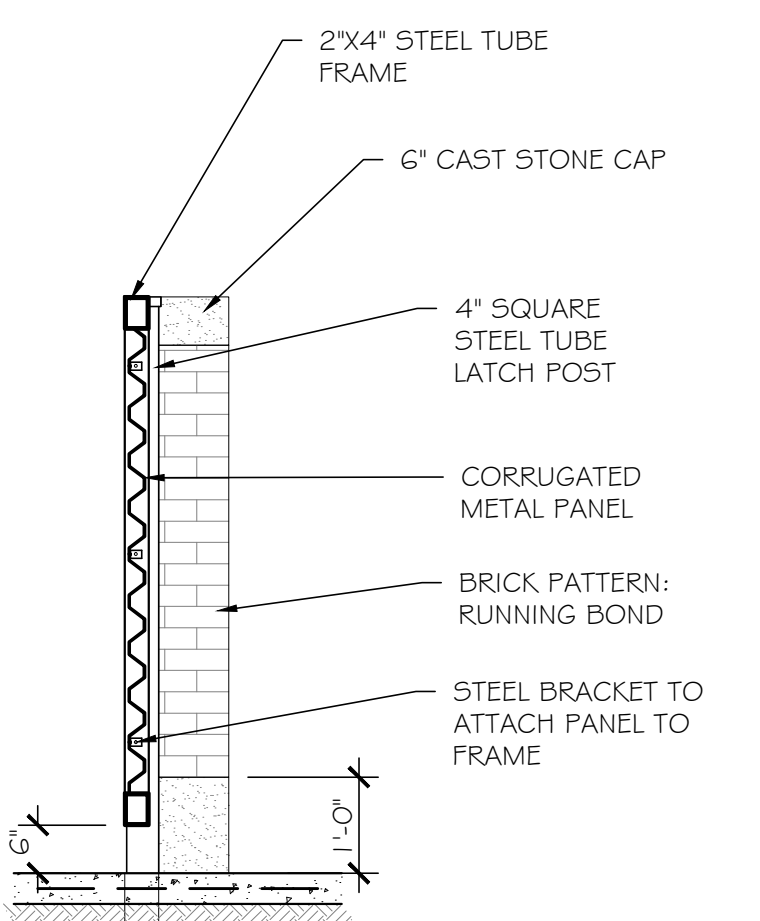
4 FENCE MASONRY COLUMN
1-1/2" = 1'-0"



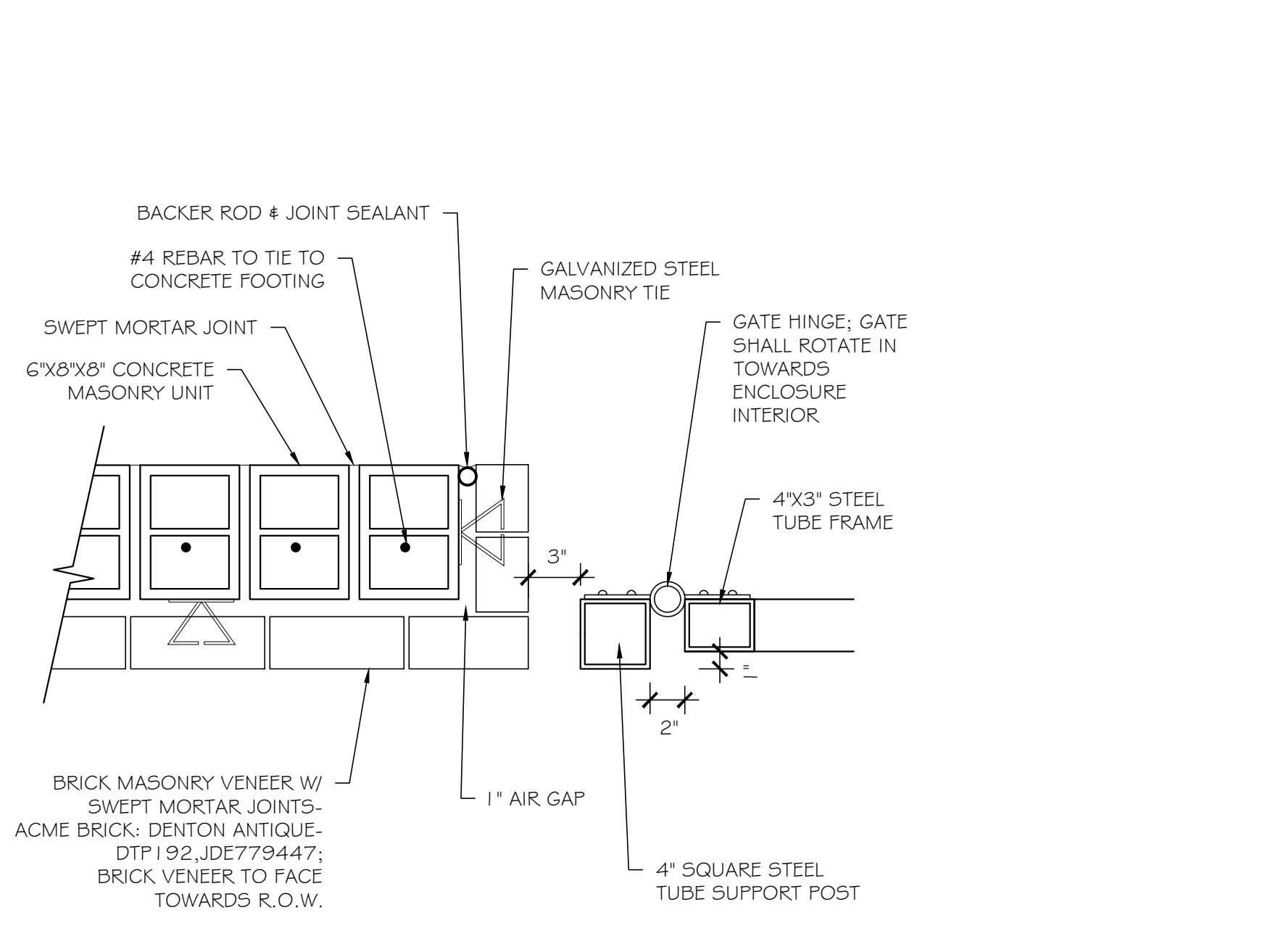
5 DUMPSTER ENCLOSURE WALL SECTION
1/2" = 1'-0"



6 DUMPSTER ENCLOSURE - SIDE GATE
1/2" = 1'-0"



7 MASONRY WALL COLUMN & SIDE GATE POST
1-1/2" = 1'-0"



7 MASONRY WALL COLUMN & SIDE GATE POST
1-1/2" = 1'-0"

NOTE:
1. COMPACTED SUBGRADE - COMPACT TO 95% STANDARD PROCTOR DENSITY AT 0 TO +/- 2% OPTIMUM MOISTURE CONTENT AS PER ASTM D 698 (TYP.)
2. EXPANSION JOINTS & CONTROL JOINTS SHALL BE LOCATED ACCORDING TO THE FOLLOWING:
EJ: CHANGES IN DIRECTION, MAX 75' O.C., AGAINST CURBS, BUILDINGS, AND MANHOLES.
CJ: SPACED EVENLY TO PRODUCE SQUARE MODULES UP TO 8' O.C. MAX

NOTE:
1. COMPACTED SUBGRADE - COMPACT TO 95% STANDARD PROCTOR DENSITY AT 0 TO +/- 2% OPTIMUM MOISTURE CONTENT AS PER ASTM D 698 (TYP.)
2. EXPANSION JOINTS & CONTROL JOINTS SHALL BE LOCATED ACCORDING TO THE FOLLOWING:
EJ: CHANGES IN DIRECTION, MAX 75' O.C., AGAINST CURBS, BUILDINGS, AND MANHOLES.
CJ: SPACED EVENLY TO PRODUCE SQUARE MODULES UP TO 8' O.C. MAX

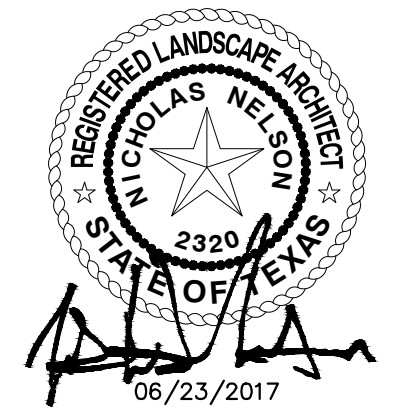


EXHIBIT 4-HARDSCAPE DETAILS
OLD CENTRAL PARKING LOT
217 W MCKINNEY ST
DENTON CENTRAL BUSINESS DISTRICT
CITY OF DENTON, DENTON COUNTY, TEXAS

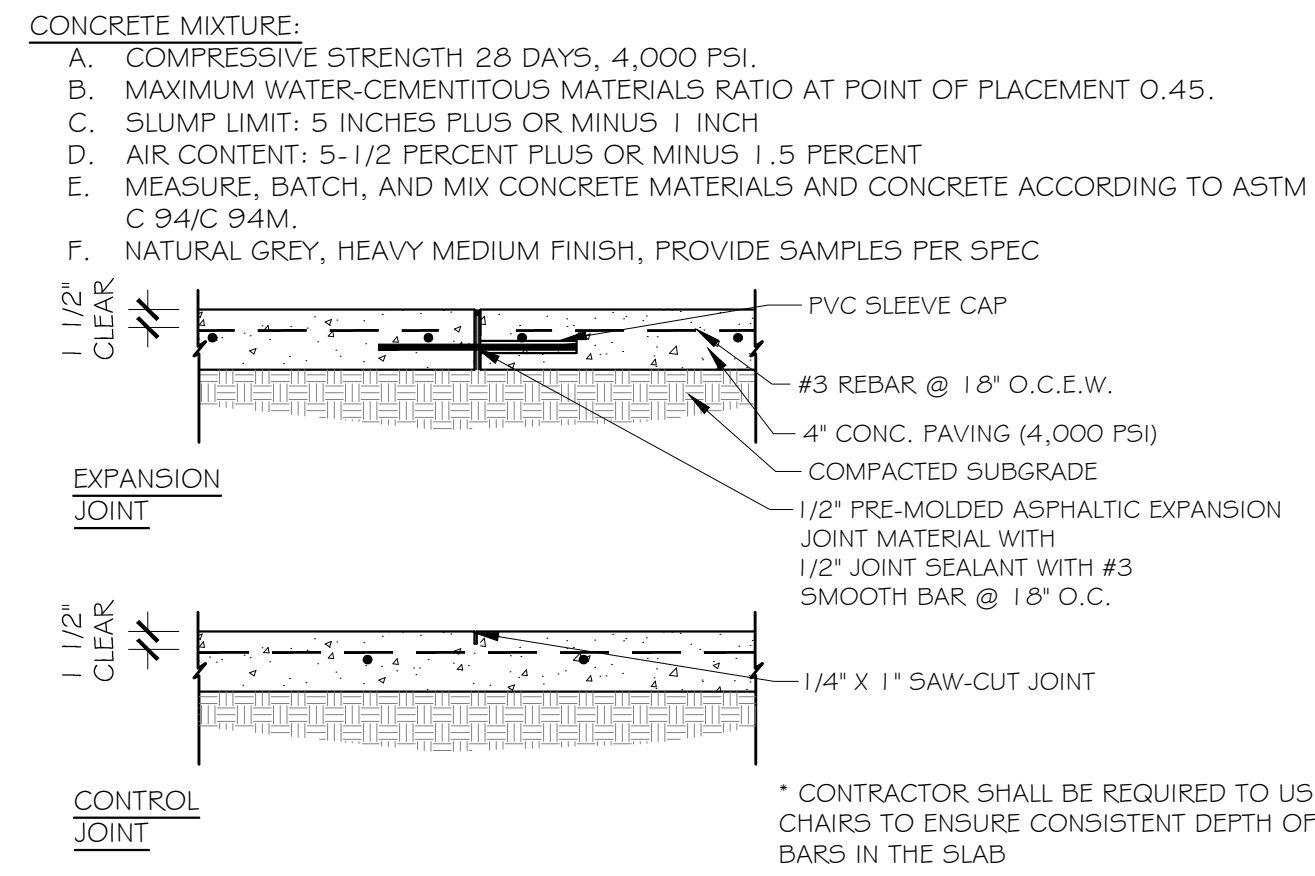
Pacheco Koch
 6100 WESTERN PLACE, SUITE 1001
 FORT WORTH, TX 76107 817.412.7155
 TX REG. ENGINEERING FIRM F-14439
 TX REG. SURVEYING FIRM LS-10193824

DRAWN BY: CRR CHECKED BY: NGN SCALE: AS SHOWN DATE: JUNE 2017 NO: **EX-4**

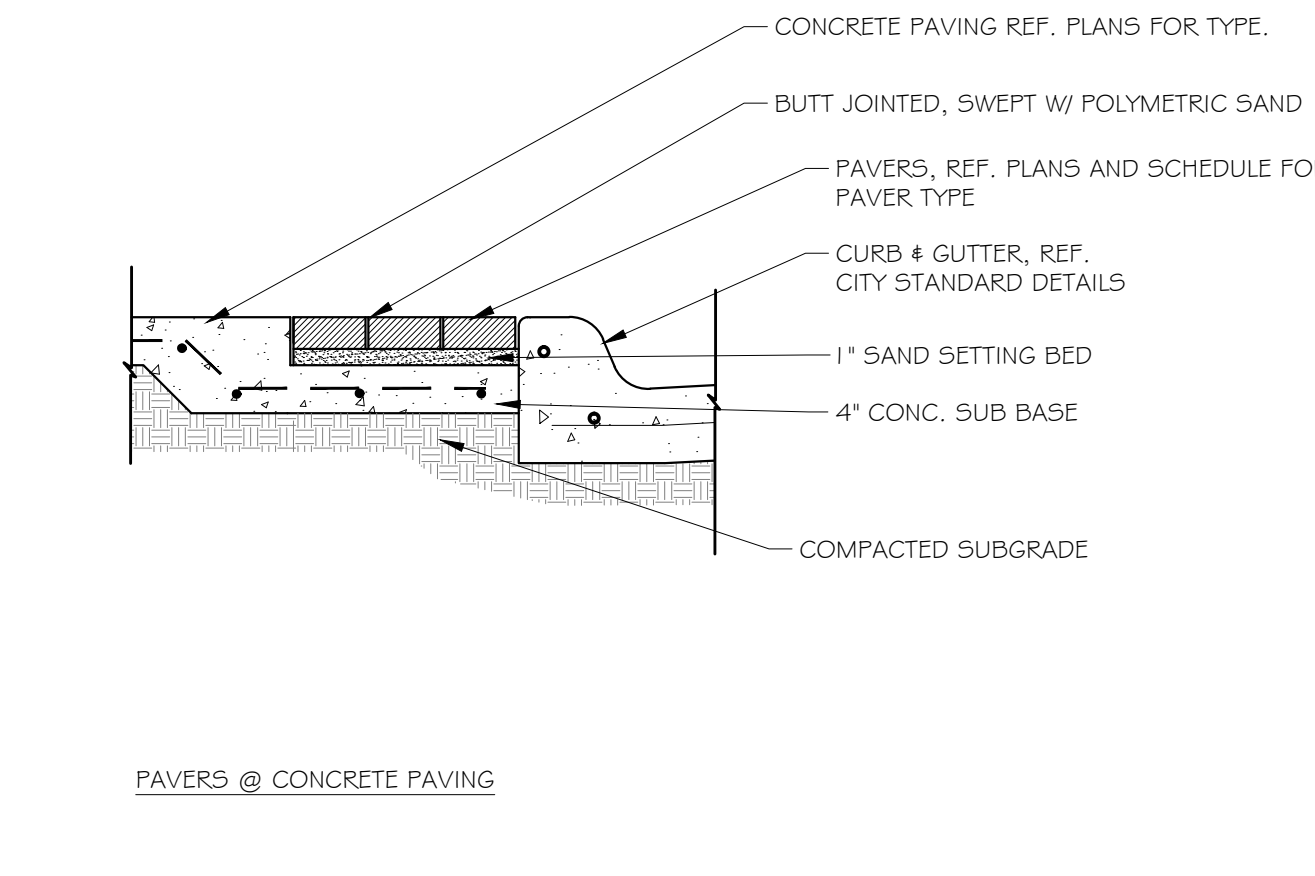
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OLD CENTRAL PARKING LOT

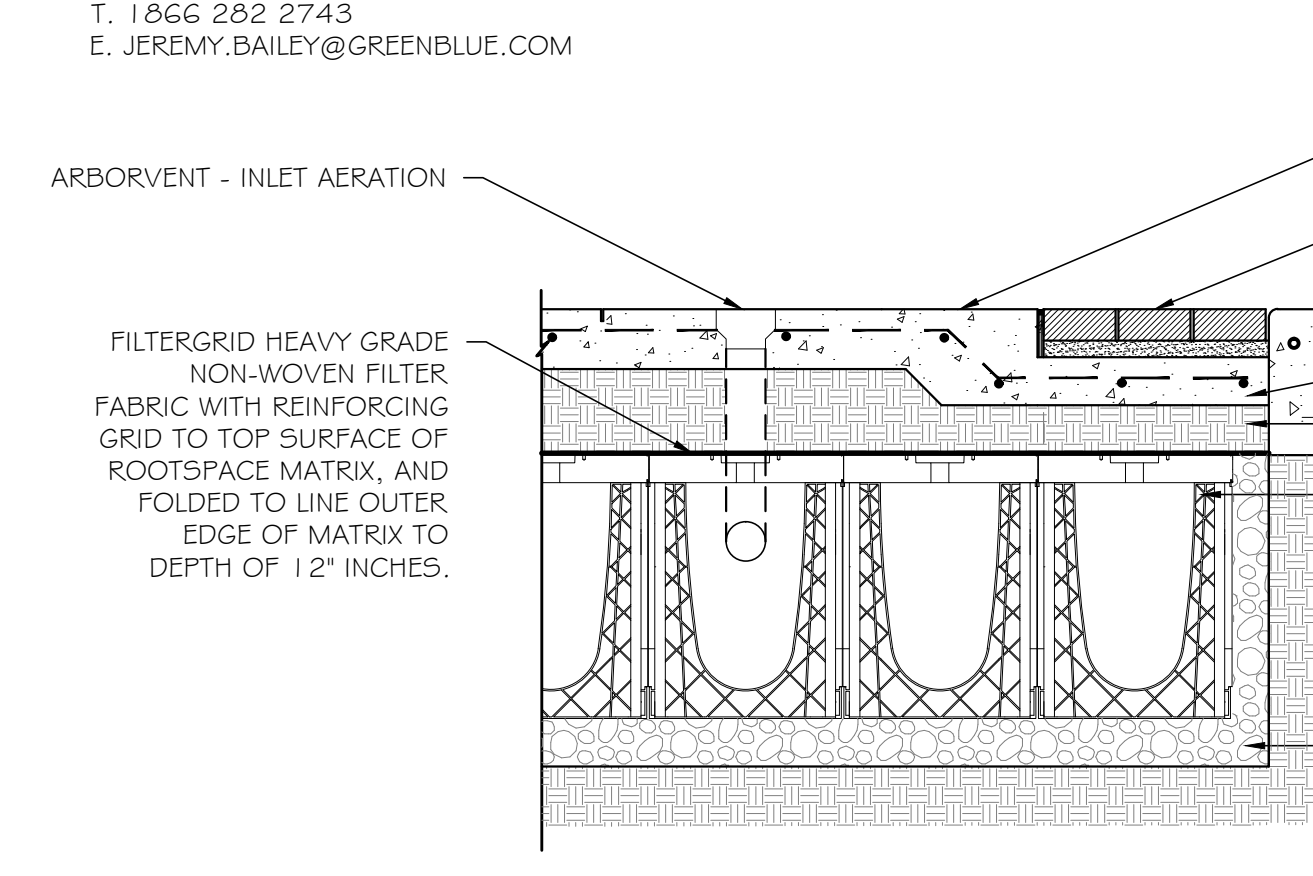
- NOTE:
 1. COMPACTED SUBGRADE - COMPACT TO 95% STANDARD PROCTOR DENSITY AT 0 TO +/- 2% OPTIMUM MOISTURE CONTENT AS PER ASTM D 698 (TYP.)
 2. EXPANSION JOINTS & CONTROL JOINTS SHALL BE LOCATED ACCORDING TO THE FOLLOWING.
 E.J: CHANGES IN DIRECTION, MAX 75' O.C., AGAINST CURBS, BUILDINGS, AND MANHOLES.
 C.J: SPACED EVENLY TO PRODUCE SQUARE MODULES UP TO 8' O.C. MAX



- NOTE:
 1. COMPACTED SUBGRADE - COMPACT TO 95% STANDARD PROCTOR DENSITY AT 0 TO +/- 2% OPTIMUM MOISTURE CONTENT AS PER ASTM D 698 (TYP.)
 2. EXPANSION JOINTS & CONTROL JOINTS SHALL BE LOCATED ACCORDING TO THE FOLLOWING.
 E.J: CHANGES IN DIRECTION, MAX 75' O.C., AGAINST CURBS, BUILDINGS, AND MANHOLES.
 C.J: SPACED EVENLY TO PRODUCE SQUARE MODULES UP TO 8' O.C. MAX



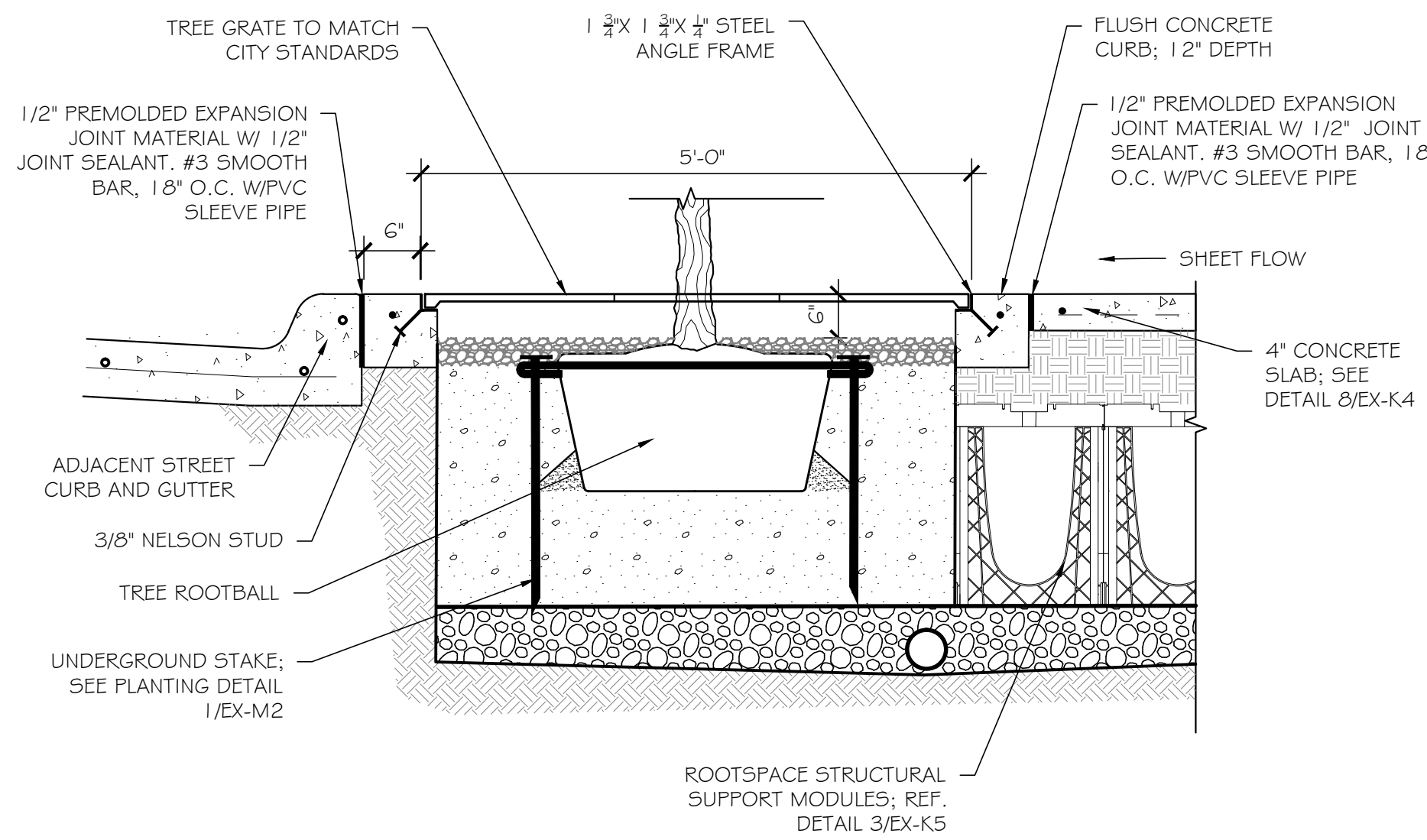
- NOTE:
 "ROOTSPACE" STRUCTURAL SUPPORT MODULES OR APPROVED EQUAL TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS
 CONTACT:
 GREENBLUE URBAN
 JEREMY BAILEY
 T. 1866 282 2743
 E. JEREMY.BAILEY@GREENBLUE.COM



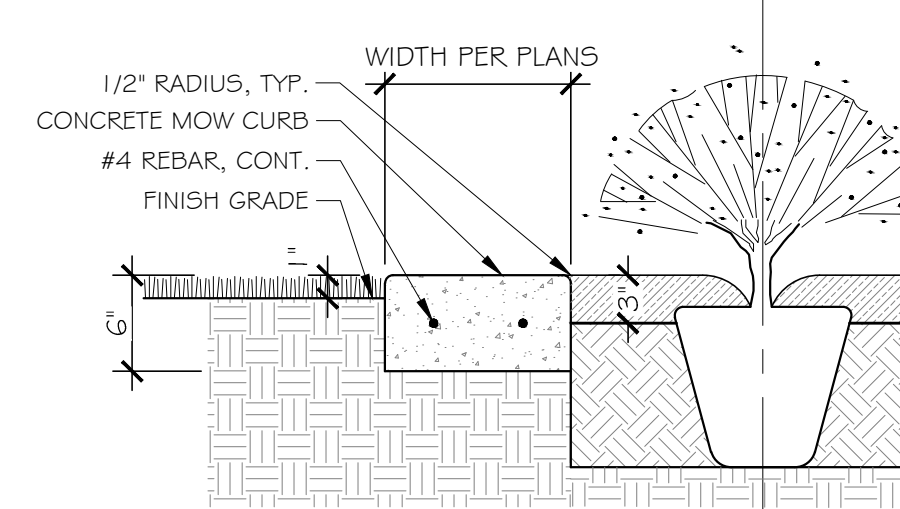
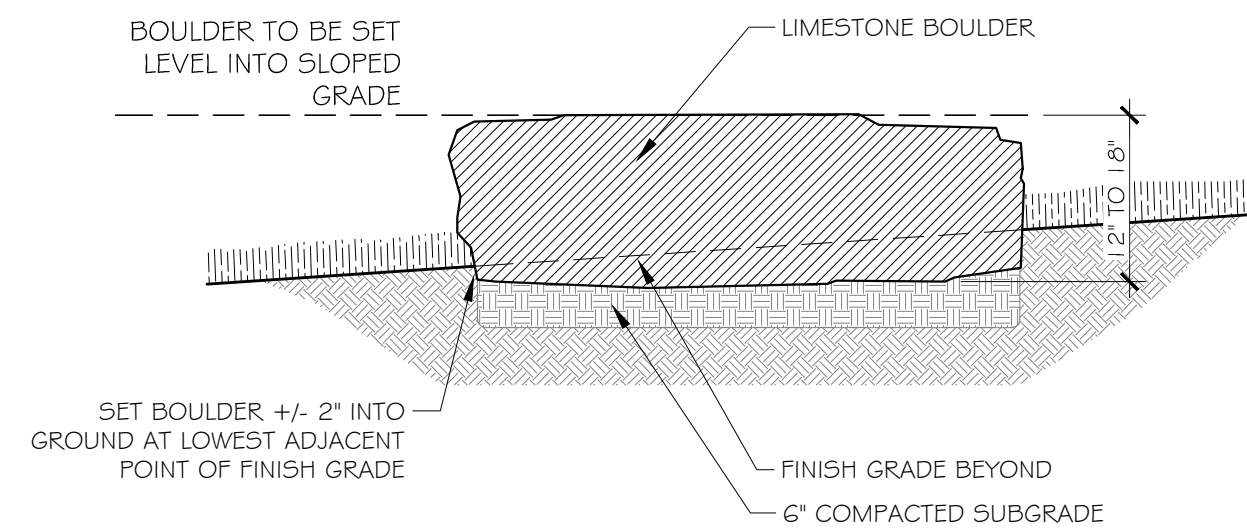
1 CONCRETE PAVING SECTION
 3/4" = 1'-0"

2 CONCRETE PAVERS - PEDESTRIAN
 3/4" = 1'-0"

3 CONCRETE PAVING & PAVERS ON STRUCTURAL SUPPORT MODULES
 3/4" = 1'-0"



NOTE: CONTRACTOR TO PROVIDE EQUAL AMOUNT OF 3' X 2', 2' X 2' & 2' X 1' BOULDERS

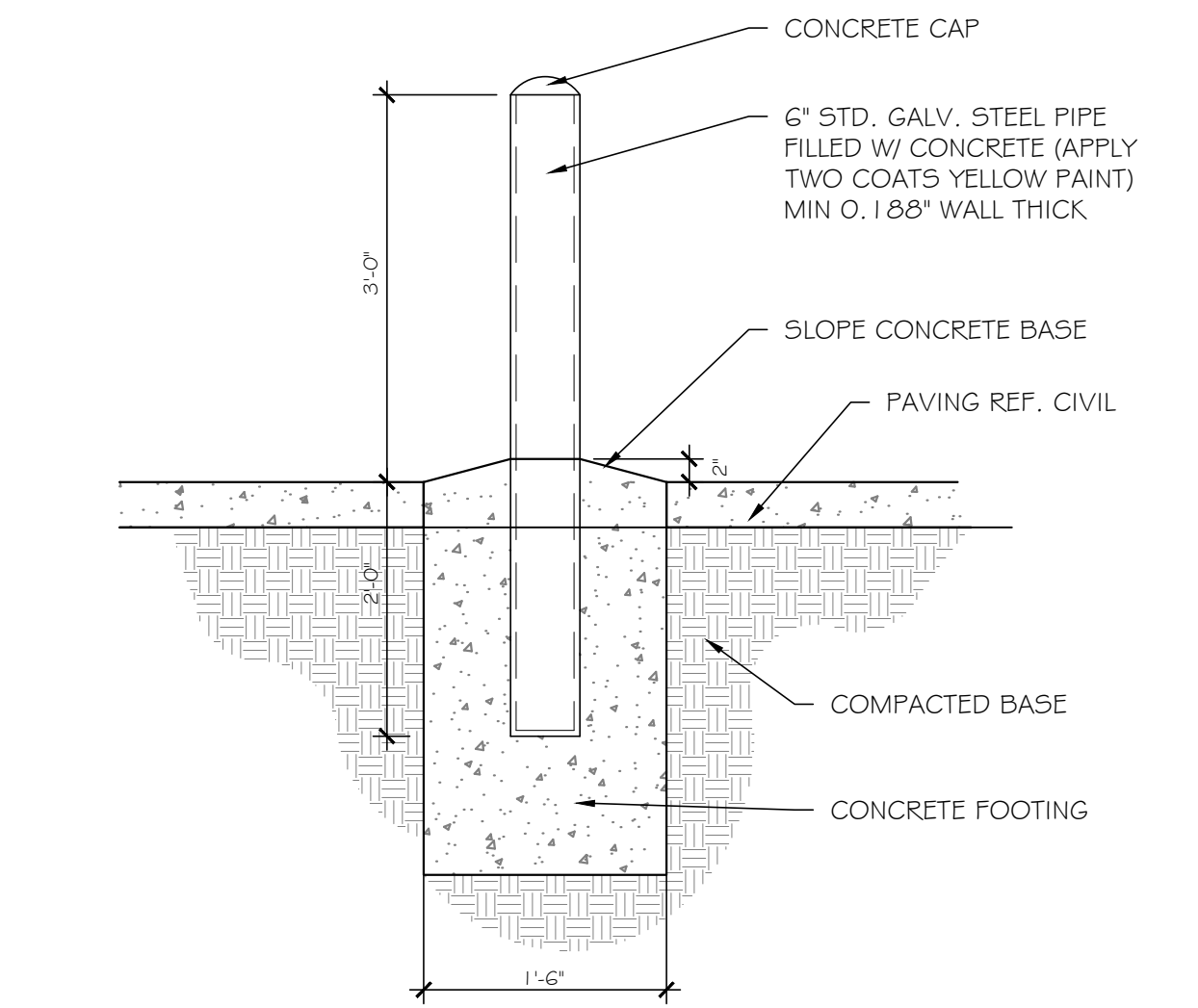


NOTE:
 CONTROL JOINTS @ 10' O.C.
 SEALED EXPANSION JOINTS @ 30' O.C.

4 TREE WELL WITH TREE GRATE
 3/4" = 1'-0"

5 BOULDER-SECTION
 1/2" = 1'-0"

6 CONCRETE MOW CURB
 1" = 1'-0"



7 TRASH COLLECTION AREA BOLLARD
 3/4" = 1'-0"

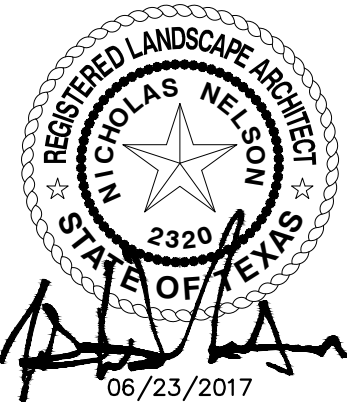


EXHIBIT H-HARDSCAPE DETAILS				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY CRR	CHECKED BY NGN	SCALE AS SHOWN	DATE JUNE 2017	NO. EX-00

OLD CENTRAL PARKING LOT

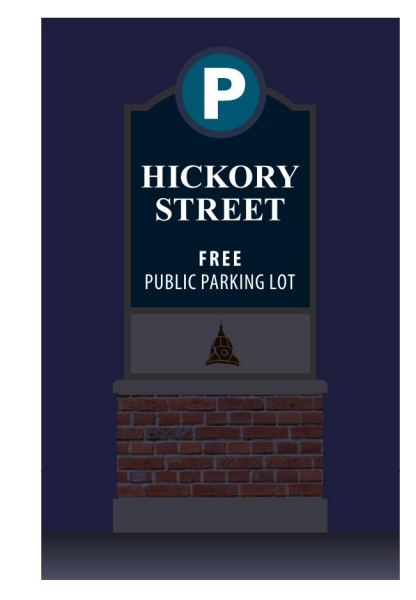
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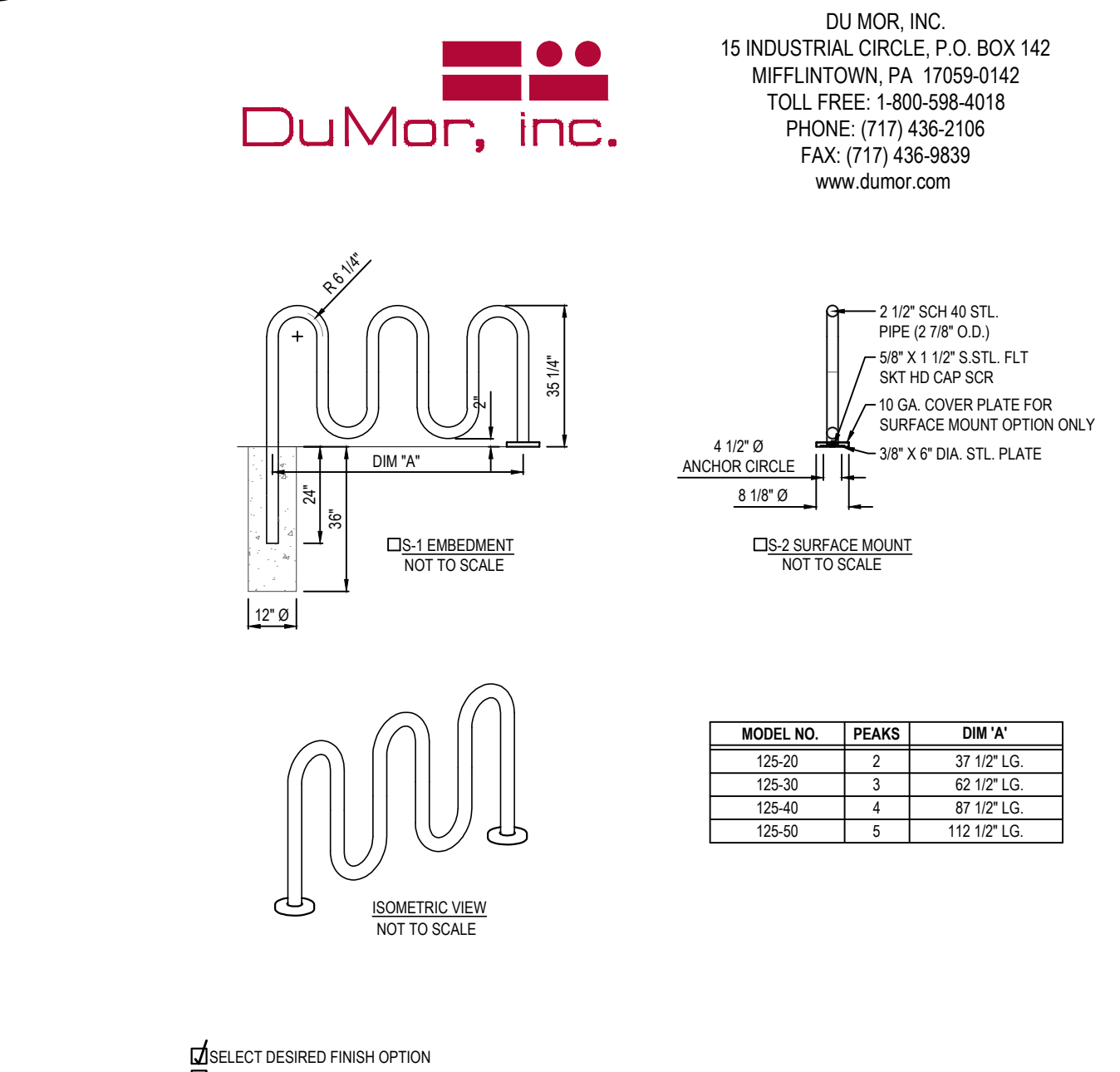
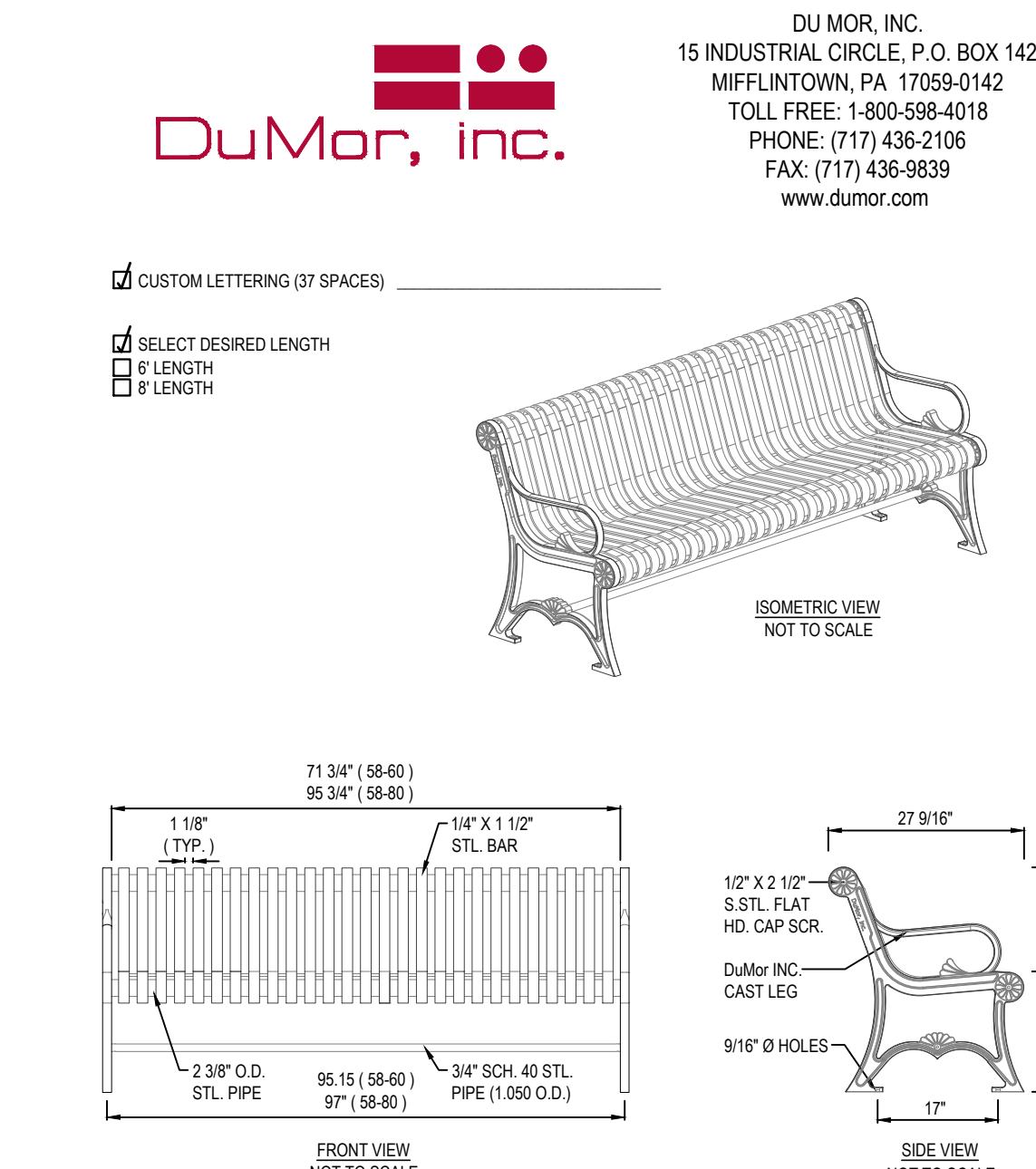
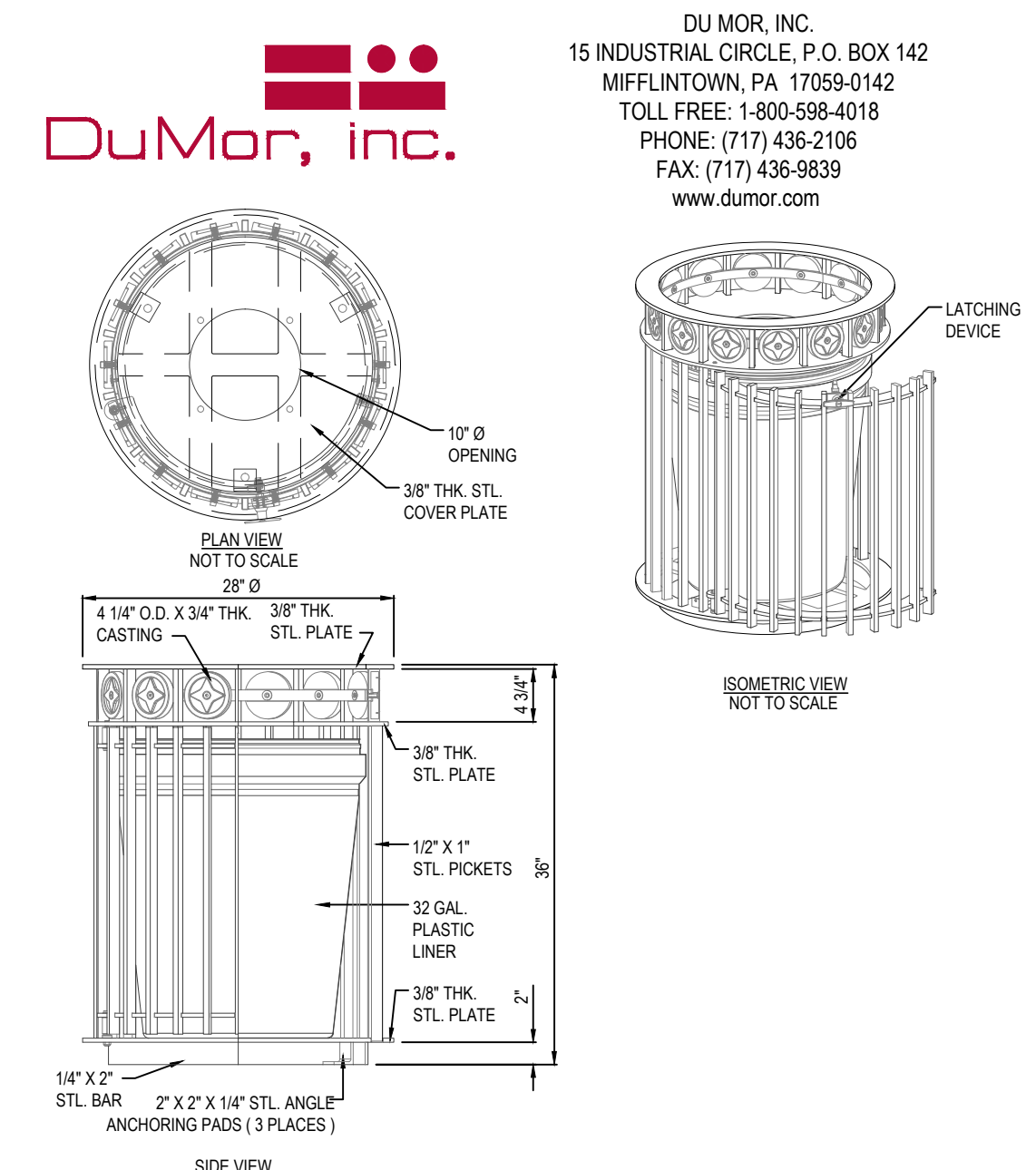
1 DOWNTOWN KIOSK
NOT TO SCALE



2 PARKING LOT MONUMENT SIGN
NOT TO SCALE



SPECIFICATIONS	SIGN TYPE: PARK.2	FUNCTION: Parking Identification
<p>17. PARKING SIGN CABINET MATERIAL: Aluminum/Acrylic FABRICATION PROCESS: Double-Sided Fabricated Aluminum Sign Cabinet w/ Push-Thru Acrylic Faces FACE: .125" Routed Aluminum w/ 1/2" Thk. Clear Acrylic Push-Thru Symbol + Lettering. 1.25" routed flange at 2nd surface w/ 2nd surface applied diffuser. 1/4" visible push-thru return on Sign Face w/ 1st surface applied translucent vinyl overlay LIGHTING: "Cool White" 5000K L.E.D. Internal illumination SURFACE PROCESS: Paint Cabinet surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish MOUNTING: Internally secured to Anchor Bolts at Masonry Base</p>		
<p>18. DENTON LOGO FABRICATION PROCESS: Screen Print per Vector Artwork - by Designer COLOR: Paint PS SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.</p>		
<p>19. PARKING SIGN BRICK BASE MATERIAL: Partition cinderblock core and brick facade to match streetscape plan, or chosen by client. BRICK STYLE: Modular or Standard brick BRICK PATTERN: Running brick bond pattern FABRICATION PROCESS: Brick with grouting, technique to match streetscape plan, or chosen by client. FASTENER: Mortar to CMU block utilizing metal straps. Groat seams. COLOR: Match streetscape plan, or chosen by client</p>		
<p>20. PARKING SIGN BASE - BOTTOM MATERIAL: Concrete, color to match streetscape plan, or chosen by client. FABRICATION PROCESS: Poured Concrete Footer, Cast in place formed 8" Above Grade w/ Sandblast Finish. Size/Depth below grade T.B.D. by Structural Engineer GROUT: To match utilized in Brick Base.</p>		
<p>21. PARKING SIGN BASE - CAP MATERIAL: Concrete, color to match streetscape plan, or chosen by client. FABRICATION PROCESS: Pre-Cast Formed, 3" Thk. (+/-) w/ 1" x 1" 45° bevel edge at top perimeter. Color to match cast in place footer w/ Sandblast Finish. GROUT: To match utilized in Brick Base.</p>		
<p>NOTES</p> <ol style="list-style-type: none"> 1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. 2. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication. 3. Weeks: All works shall be ground smooth, joint all seams. 4. Hardware: All exposed hardware shall be tamper proof fasteners. 5. All exposed edges painted to match adjacent face. 		
<p>ENVIRONMENTS & EXPERIENCES</p> <p>merje 120 North Church Street Suite 208 West Chester, PA 19380 T 484.268.0648 www.merjedesign.com</p>		<p>CLIENT / PROJECT</p> <p>DENTON, TX Wayfinding and Signage System</p>
<p>SUBCONSULTANT</p> <p>DATE: 7/1/16 DRAWN BY: KFRD</p>		<p>PROJECT NO.</p> <p>SHEET TITLE</p> <p>Sign Type PARK.2 Parking I.D.</p> <p>SHEET NO.</p> <p>D.18</p>



NOTE: CONTRACTOR TO REFERENCE CITY OF DENTON WAYFINDING AND SIGNAGE SYSTEM AND SUBMIT SHOP DRAWINGS FOR ALL SIGNS, MONUMENTS, AND KIOSKS. SHOP DRAWINGS TO INCLUDE PHOTO READY ART AND STRUCTURAL ENGINEERING AS NECESSARY.

SITE FURNITURE TO BE APPROVED BY OWNER.

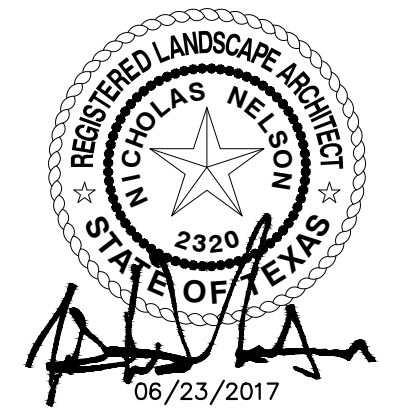
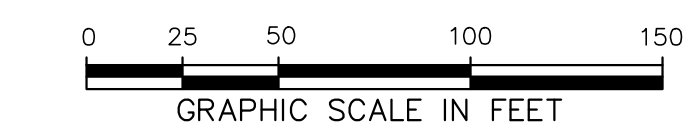
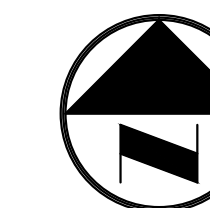


EXHIBIT		AYFINDING DETAILS	
OLD CENTRAL PARKING LOT			
217 W MCKINNEY ST			
DENTON CENTRAL BUSINESS DISTRICT			
CITY OF DENTON, DENTON COUNTY, TEXAS			
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824	
DRAWN BY CRR	CHECKED BY NGN	SCALE AS SHOWN	DATE JUNE 2017
		NO. EX-	

CROWZIE 8.01 AM 04-DWG-33-3776-16-157-DWG\LANDSCAPE_C3D_2015\3776-16-157.dwg

OLD CENTRAL PARKING LOT



TRAFFIC CONTROL GENERAL NOTES

1. TRAFFIC CONTROL SIGNS AND DEVICES SHALL COMPLY WITH THE TEXAS DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. TEMPORARY WARNING SIGNS, CHANNELIZING DEVICES AND BARRICADES SHALL COMPLY WITH TEXAS DEPARTMENT OF TRANSPORTATION STANDARD PLAN SHEETS BC(1)-07 THRU BC(12)-07.
3. SIGN SPACING DISTANCES SHOWN ON PLANS ARE THE MINIMUM REQUIREMENT. CONTRACTOR TO EVALUATE SIGHT DISTANCE CONDITIONS ON THE GROUND AT TIME OF INSTALLATION AND INCREASE SIGN SPACING AS REQUIRED.
4. THE PROPOSED TRAFFIC CONTROL PLAN IS BASED UPON THE TMTUCD TRAFFIC CONTROL PLAN GUIDELINES TA-1-11 AND "SIGN SPACING IS BASED ON TABLE G11-3, UTILIZING ROAD CLASSIFICATION "LOW TRAFFIC VOLUMES."
5. ALL TRAFFIC CONTROL MEASURES ARE TO ALLOW FOR MINIMUM ONE LANE IN BOTH DIRECTIONS AT ALL TIMES.
6. THE USE OF TRUCK MOUNTED ATTENUATOR AND FLAG MEN ARE OPTIONAL.
7. ALL TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN ARE TEMPORARY AND ARE TO BE REMOVED BY THE CONTRACTOR DURING NON-WORKING HOURS.
8. AFTER COMPLETION OF SIDEWALKS AND CURBING, TRAFFIC CONTROL DEVICES SHOULD BE REMOVED FOR THE REMAINDER OF THE PROJECT.

LEGEND

- CHANNELIZING DEVICE - DRUM
- CHANNELIZING DEVICE - TYPE OTLD
- ▲ TEMPORARY WARNING SIGN
- DIRECTION OF TRAFFIC
- ▨ AREA OF CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY

1	2	3	4
5	6	7	8

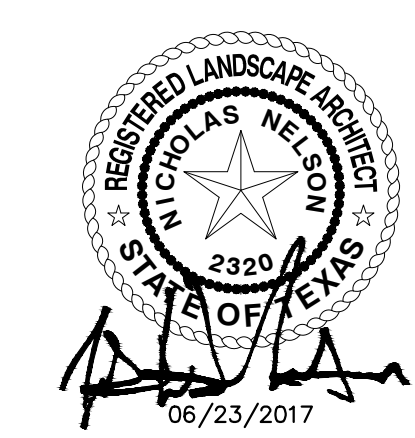


EXHIBIT L1-TRAFFIC CONTROL PLAN				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY	CHECKED BY	SCALE	DATE	NO.
CRR	NGN	1"=20'	JUNE 2017	EX-L1

CROWZIE 07/06/2017 8:22 AM
J:\DWG-37\3778-16\57\DWG\LANDSCAPE_C3D_2015\3778-16.157

OLD CENTRAL PARKING LOT

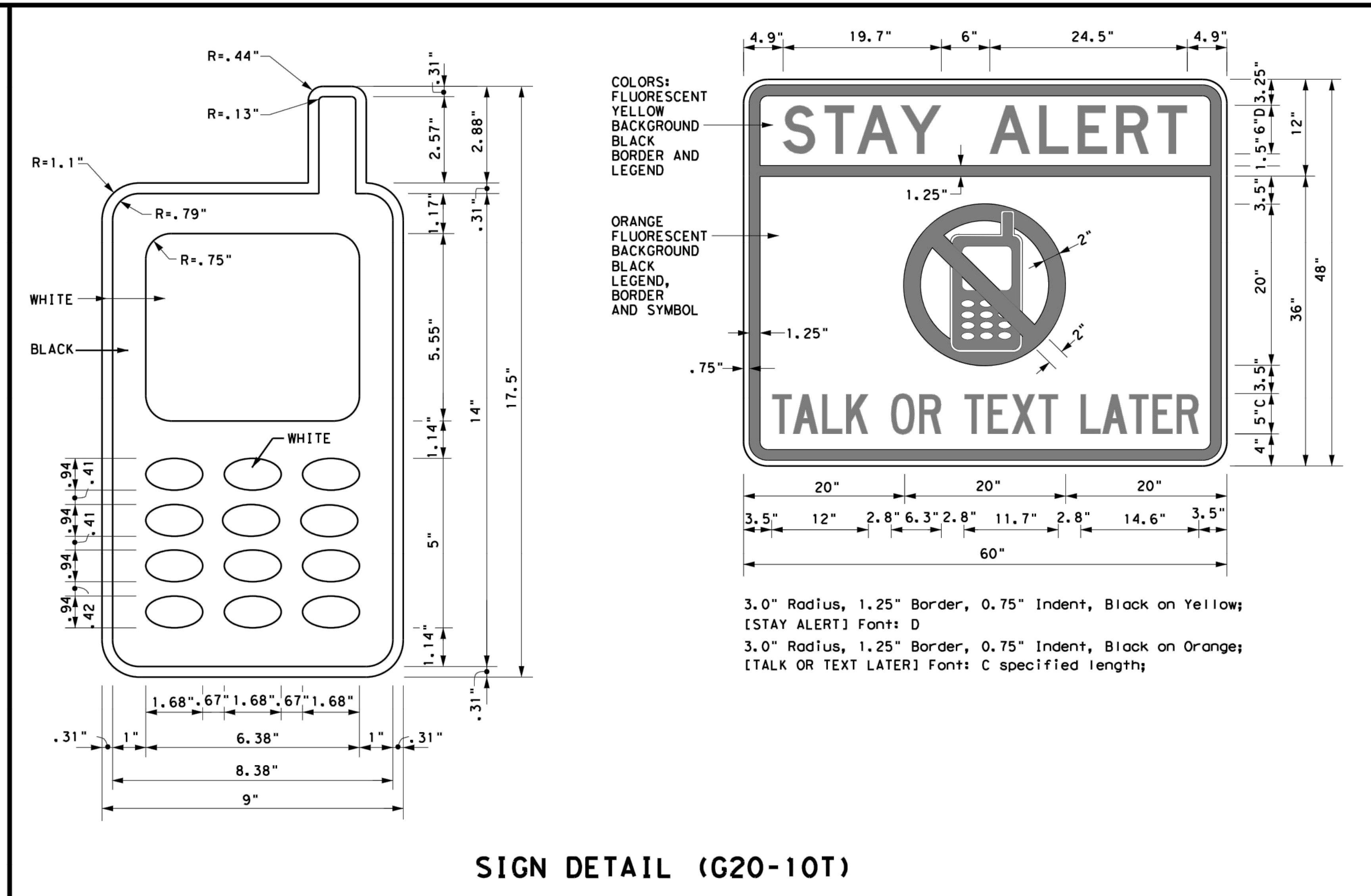
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BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
- When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- As shown on BC(2), the OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER (see Sign Detail G20-10T) and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. However, the TRAFFIC FINES DOUBLE sign will not be required on projects consisting solely of mobile operation work, such as striping or milling edgeline rumble strips. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR NEXT and END ROAD WORK signs shall be erected at or near the CSJ limits.
- Except for devices required by Note 10, traffic control devices should be in place only while work is actually in progress or a definite need exists.
- The Engineer has the final decision on the location of all traffic control devices.
- Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY APPAREL NOTES:

- Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.



SIGN DETAIL (G20-10T)

Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be found on-line at the web address given below or by contacting:

Texas Department of Transportation
 Traffic Operations Division - TE
 Phone (512) 416-3118

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov	
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)	
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)	
MATERIAL PRODUCER LIST (MPL)	
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"	
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)	
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)	
TRAFFIC ENGINEERING STANDARD SHEETS	

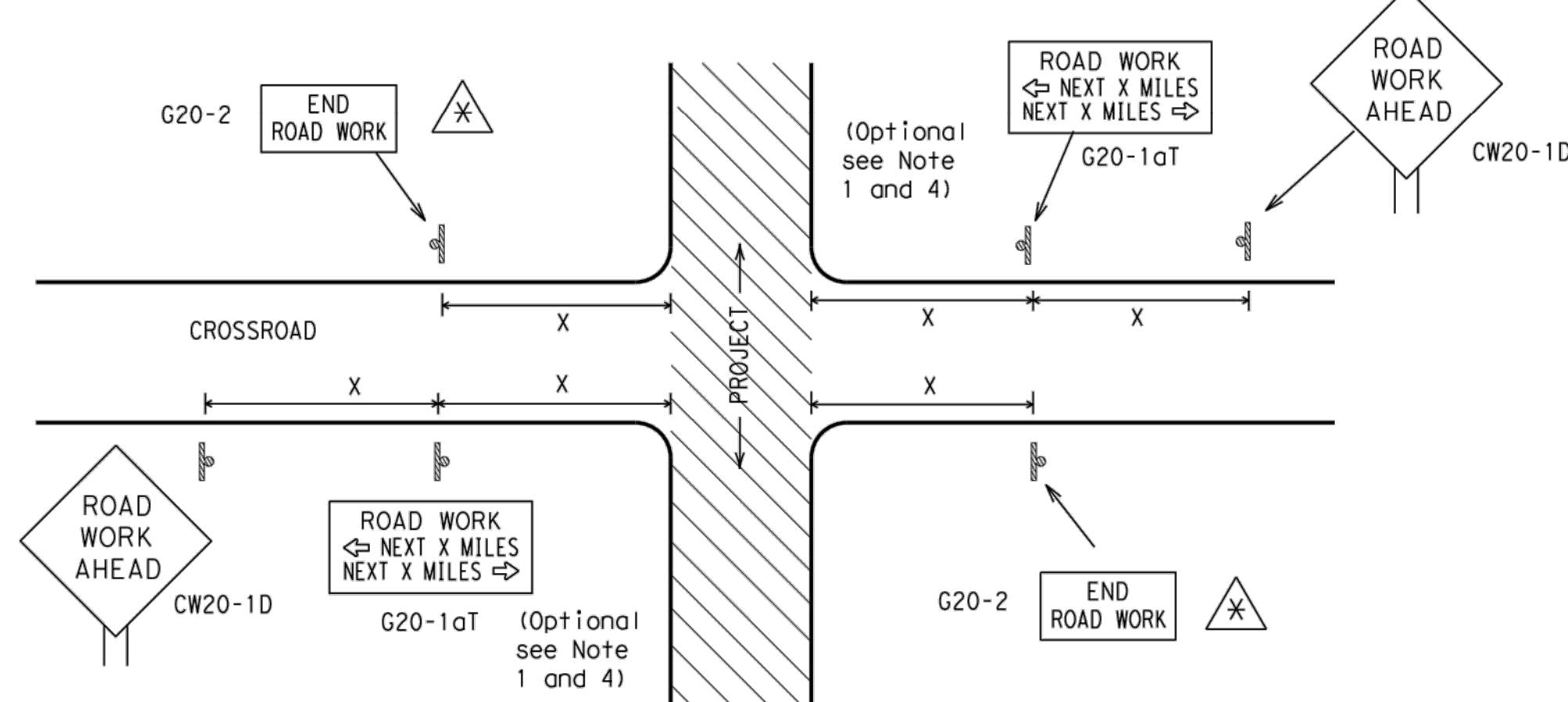
SHEET 1 OF 12

		Traffic Operations Division Standard
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS		
BC (1) - 14		
FILE: bc-14.dgn © TxDOT November 2002	DWT: TxDOT CONT: SECT REVISIONS: 4-03 5-10 8-14 9-07 7-13	DW: TxDOT CK: TxDOT JOB COUNTY SHEET NO. EX-12

DATE: FILE:

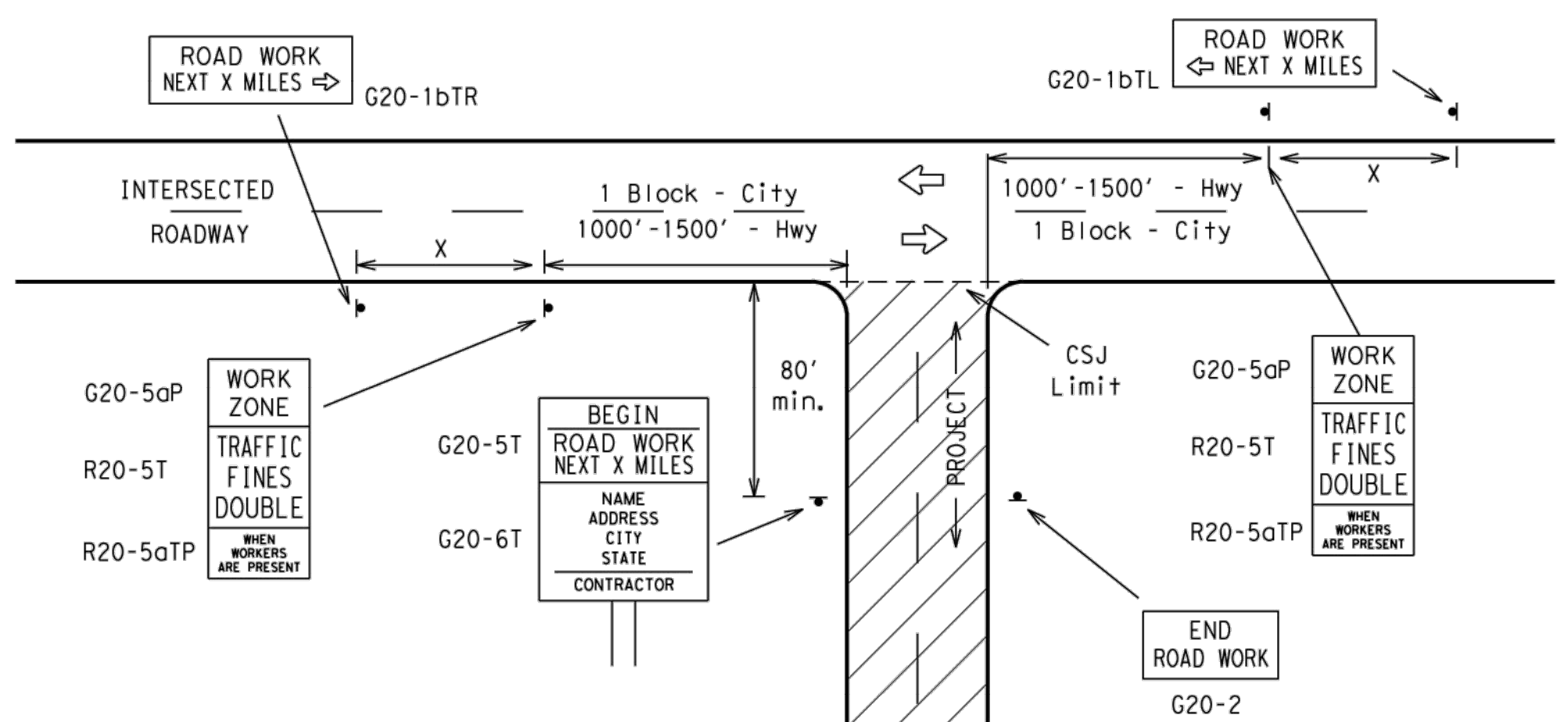
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TYPICAL LOCATION OF CROSSROAD SIGNS



- △ May be mounted on back of "ROAD WORK AHEAD" (CW20-1D) sign with approval of Engineer. (See note 2 below)
- The typical minimum signing on a crossroad approach should be a "ROAD WORK AHEAD" (CW20-1D) sign and a (G20-2) "END ROAD WORK" sign, unless noted otherwise in plans.
 - The Engineer may use the reduced size 36" x 36" ROAD WORK AHEAD (CW20-1D) sign mounted back to back with the reduced size 36" x 18" "END ROAD WORK" (G20-2) sign on low volume crossroads (see Note 4 under "Typical Construction Warning Sign Size and Spacing"). See the "Standard Highway Sign Designs for Texas" manual for sign details. The Engineer may omit the advance warning signs on low volume crossroads. The Engineer will determine whether a road is low volume. This information shall be shown in the plans.
 - Based on existing field conditions, the Engineer/Inspector may require additional signs such as FLAGGER AHEAD, LOOSE GRAVEL, or other appropriate signs. When additional signs are required, these signs will be considered part of the minimum requirements. The Engineer/Inspector will determine the proper location and spacing of any sign not shown on the BC sheets, Traffic Control Plan sheets or the Work Zone Standard Sheets.
 - The "ROAD WORK NEXT X MILES" (G20-1aT) sign shall be required at high volume crossroads to advise motorists of the length of construction in either direction from the intersection. The Engineer will determine whether a roadway is considered high volume.
 - Additional traffic control devices may be shown elsewhere in the plans for higher volume crossroads.
 - When work occurs in the intersection area, appropriate traffic control devices, as shown elsewhere in the plans or as determined by the Engineer/Inspector, shall be in place.

T-INTERSECTION



CSJ LIMITS AT T-INTERSECTION

- The Engineer will determine the types and location of any additional traffic control devices, such as a flagger and accompanying signs, or other signs, that should be used when work is being performed at or near an intersection.
- If construction closes the road at a T-intersection the Contractor shall place the "CONTRACTOR NAME" (G20-6T) sign behind the Type 3 Barricades for the road closure (see BC(10) also). The "ROAD WORK NEXT X MILES" left arrow (G20-1bTL) and "ROAD WORK NEXT X MILES" right arrow (G20-1bTR) signs shall be replaced by the detour signing called for in the plans.

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING^{L5,6}

Sign Number or Series	SIZE		SPACING	
	Conventional Road	Expressway/ Freeway	Posted Speed	Sign Spacing "X"
CW20 ⁴ CW21 CW22 CW23 CW25	48" x 48"	48" x 48"	MPH	Feet (Apprx.)
			30	120
			35	160
			40	240
			45	320
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"	50	400
			55	500 ²
			60	600 ²
			65	700 ²
			70	800 ²
			75	900 ²
			80	1000 ²
			*	*

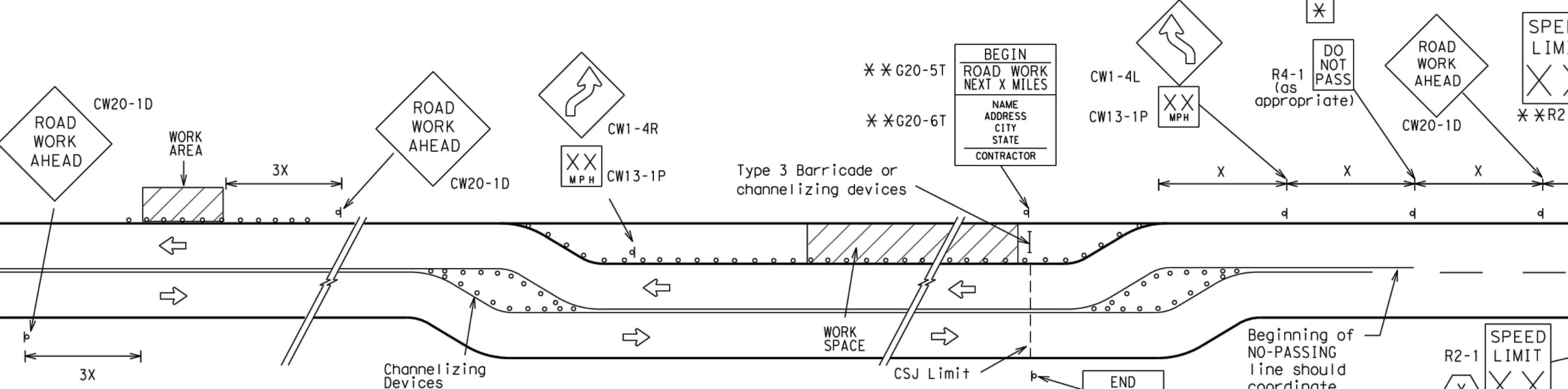
* For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

△ Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

GENERAL NOTES

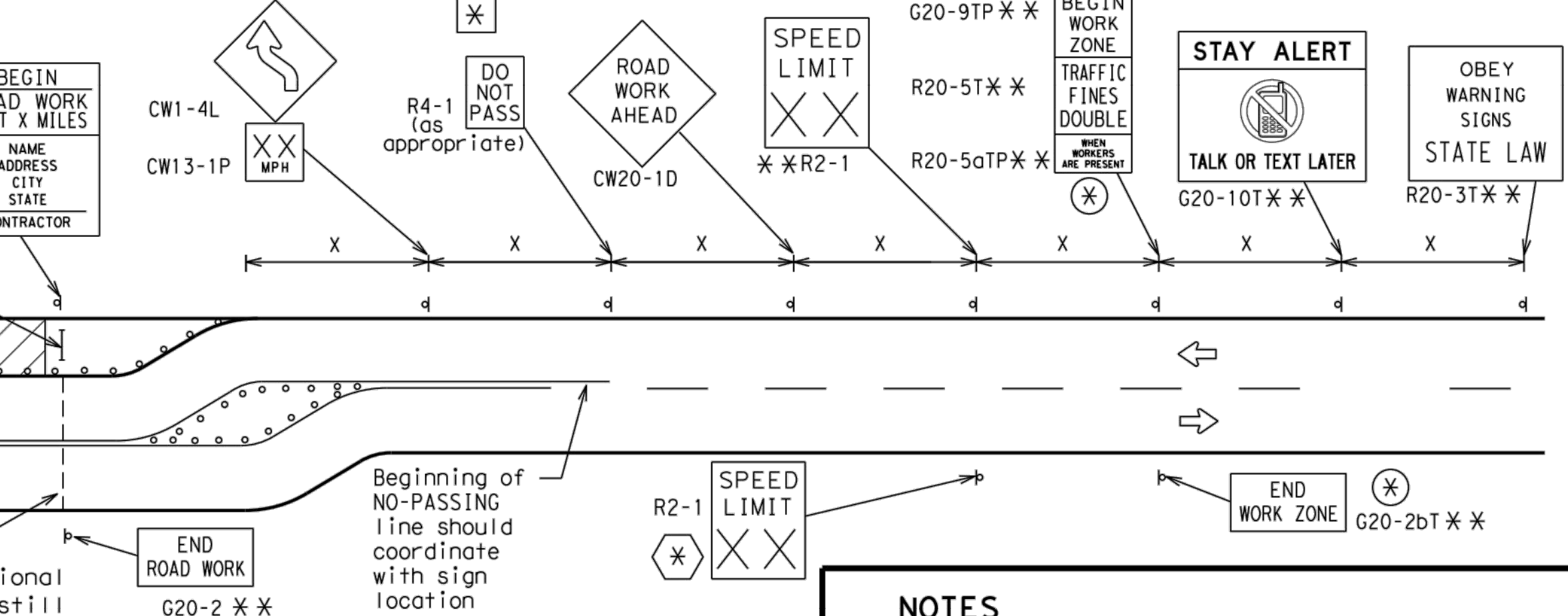
- Special or larger size signs may be used as necessary.
- Distance between signs should be increased as required to have 1500 feet advance warning.
- Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 36" x 36" "ROAD WORK AHEAD" (CW20-1D) signs may be used on low volume crossroads at the discretion of the Engineer. See Note 2 under "Typical Location of Crossroad Signs".
- Only diamond shaped warning sign sizes are indicated.
- See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS



When extended distances occur between minimal work spaces, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD" (CW20-1D) signs are placed in advance of these work areas to remind drivers they are still within the project limits. See the applicable TCP sheets for exact location and spacing of signs and channelizing devices.

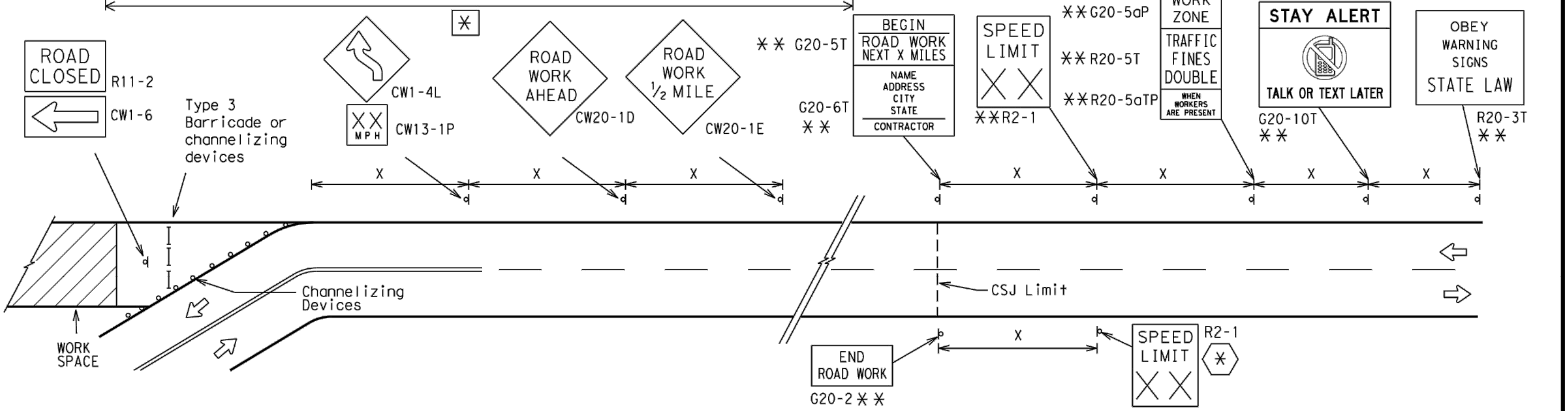
SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS



NOTES

- The Contractor shall determine the appropriate distance to be placed on the G20-1 series signs and "BEGIN ROAD WORK NEXT X MILES" (G20-5T) sign for each specific project. This distance shall replace the "X" and shall be rounded to the nearest whole mile with the approval of the Engineer. No decimals shall be used.
- ⊗ The "BEGIN WORK ZONE" (G20-9TP) and "END WORK ZONE" (G20-2bT) shall be used as shown on the sample layout when advance signs are required outside the CSJ Limits. They inform the motorist of entering or leaving a part of the work zone lying outside the CSJ Limits where traffic fines may double if workers are present.
- ** Required CSJ Limit signing. See Note 10 on BC(1). TRAFFIC FINES DOUBLE signs will not be required on projects consisting solely of mobile operations work.
- ⊗ Area for placement of "ROAD WORK AHEAD" (CW20-1D) sign and other signs or devices as called for on the Traffic Control Plan.
- ⊗ Contractor will install a regulatory speed limit sign at the end of the work zone.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



LEGEND

— —	Type 3 Barricade
○ ○ ○	Channelizing Devices
⊗	Sign
X	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.

SHEET 2 OF 12



BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC (2) - 14

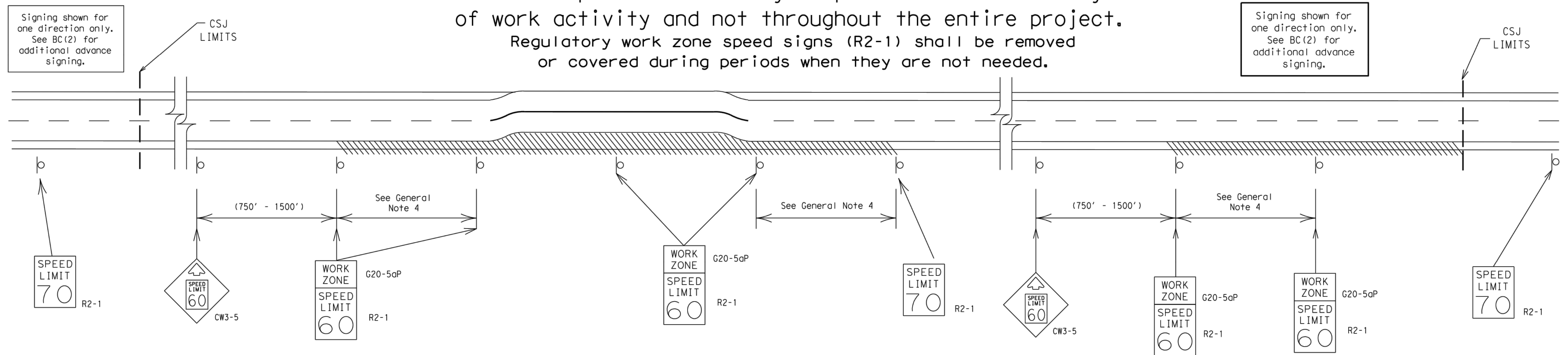
FILE: bc-14.dgn	DW: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
9-07	8-14			
7-13			COUNTY	SHEET NO.
				EX-13

DATE: FILE:

TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or by City Ordinance when within Incorporated City Limits.

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project. Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.



GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit should be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present in the work zone and modification of the geometrics to a higher design speed is not feasible.

Long/Intermediate Term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

- rough road or damaged pavement surface
- substantial alteration of roadway geometrics (diversions)
- construction detours
- grade
- width
- other conditions readily apparent to the driver

As long as any of these conditions exist, the work zone speed limit signs should remain in place.

SHORT TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit may be included on the design of the traffic control plans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the travelled way.

Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs shall be removed or covered. (See Removing or Covering on BC(4)).

GENERAL NOTES

- Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
- Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- Frequency of work zone speed limit signs should be:

40 mph and greater	0.2 to 2 miles
35 mph and less	0.2 to 1 mile
- Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
- Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT" (CW3-5) sign, "WORK ZONE" (G20-5aP) plaque and the "SPEED LIMIT" (R2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
- Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
- Techniques that may help reduce traffic speeds include but are not limited to:
 - Law enforcement.
 - Flagger stationed next to sign.
 - Portable changeable message sign (PCMS).
 - Low-power (drone) radar transmitter.
 - Speed monitor trailers or signs.
- Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

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SHEET 3 OF 12



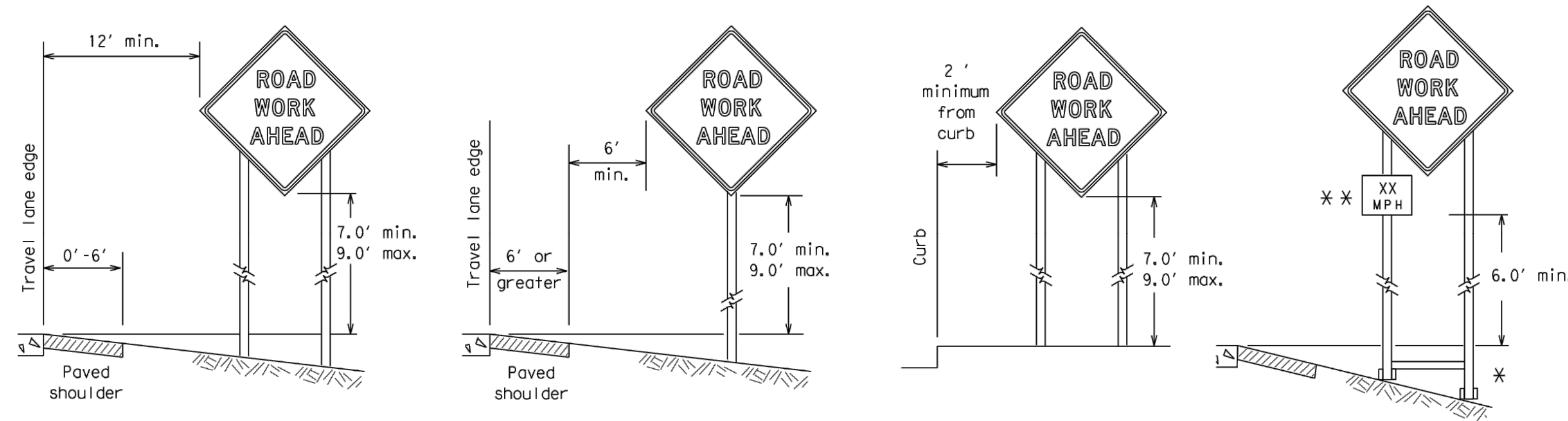
BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC (3) - 14

FILE: bc-14.dgn	DN: TxDOT	CR: TxDOT	DW: TxDOT	CR: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
9-07	8-14			
7-13				
	DIST	COUNTY	SHEET NO.	
			EX-14	

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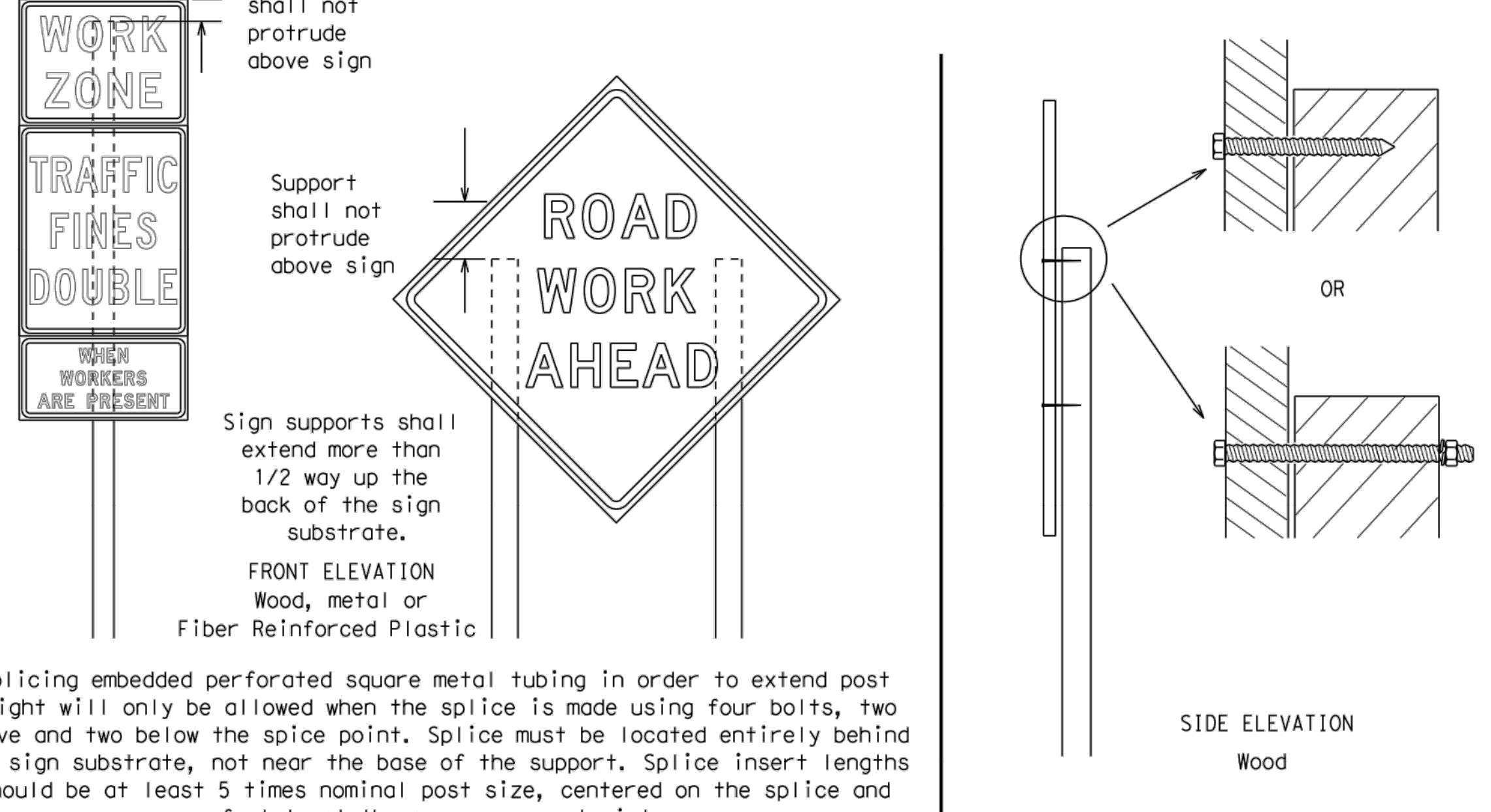
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS



* When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

** When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.

ATTACHMENT FOR SIGN SUPPORTS



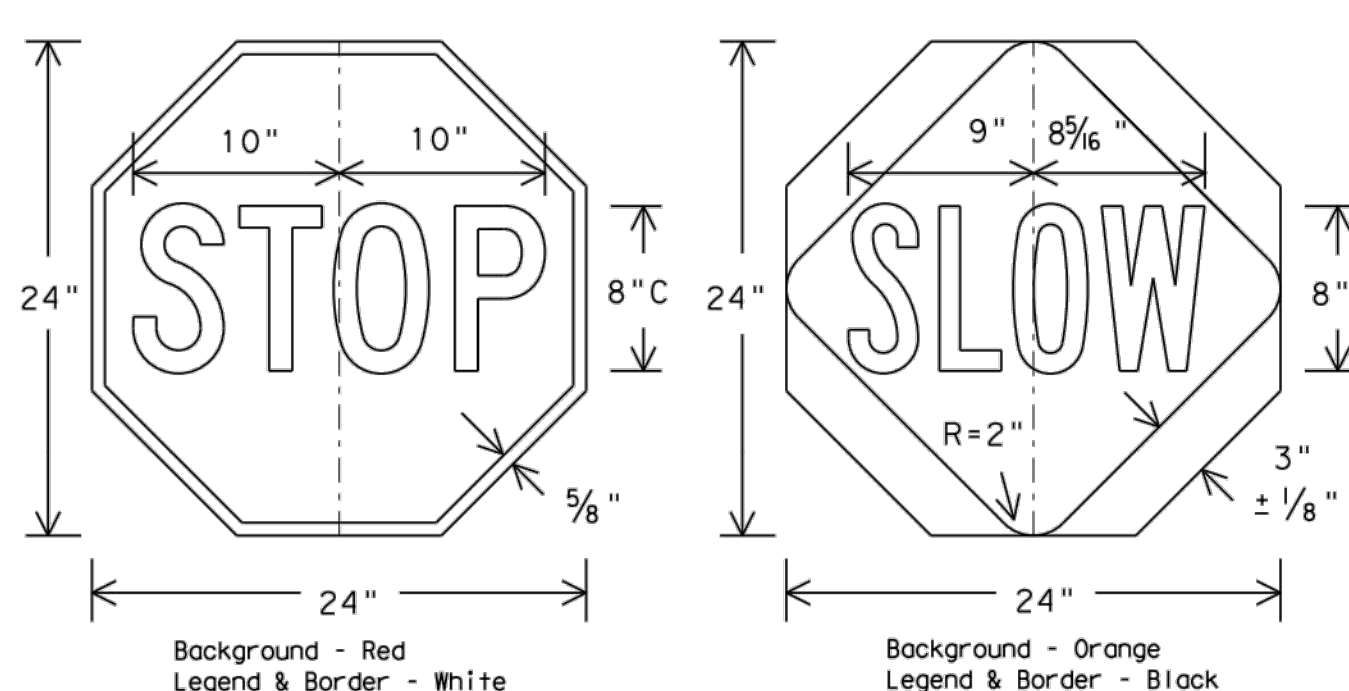
Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

Nails shall NOT be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two above and two below the splice point. Splice must be located entirely below the sign substrate, not near the base of the support. Splice insert lengths should be at least 5 times nominal post size, centered on the splice and of at least the same gauge material.

STOP/SLOW PADDLES

1. STOP/SLOW paddles are the primary method to control traffic by flaggers. The STOP/SLOW paddle size should be 24" x 24" as detailed below.
2. When used at night, the STOP/SLOW paddle shall be retroreflectORIZED.
3. STOP/SLOW paddles may be attached to a staff with a minimum length of 6' to the bottom of the sign.
4. Any lights incorporated into the STOP or SLOW paddle faces shall only be as specifically described in Section 6E.03 Hand Signaling Devices in the TMUTCD.



CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

1. Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
2. When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent signs until the permanent sign message matches the roadway condition.
3. When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
4. If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
5. If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the BC sheets or the CWZTCD. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
6. Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

GENERAL NOTES FOR WORK ZONE SIGNS

1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
2. Wooden sign posts shall be painted white.
3. Barricades shall NOT be used as sign supports.
4. All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
5. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
6. The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD). The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
7. The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
8. Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)

1. The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
 - a. Long-term stationary - work that occupies a location more than 3 days.
 - b. Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.
 - c. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
 - d. Short, duration - work that occupies a location up to 1 hour.
 - e. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

1. The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
2. The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above the ground.
3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
4. Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to appropriate Long-term/Intermediate sign height.
5. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

SIZE OF SIGNS

1. The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

SIGN SUBSTRATES

1. The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
2. "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
3. All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign face.

REFLECTIVE SHEETING

1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
2. White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background.
3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
2. Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
3. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
4. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
5. Burlap shall NOT be used to cover signs.
6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
7. Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

SIGN SUPPORT WEIGHTS

1. Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
6. Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list.
7. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

FLAGS ON SIGNS

1. Flags may be used to draw attention to warning signs. When used the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

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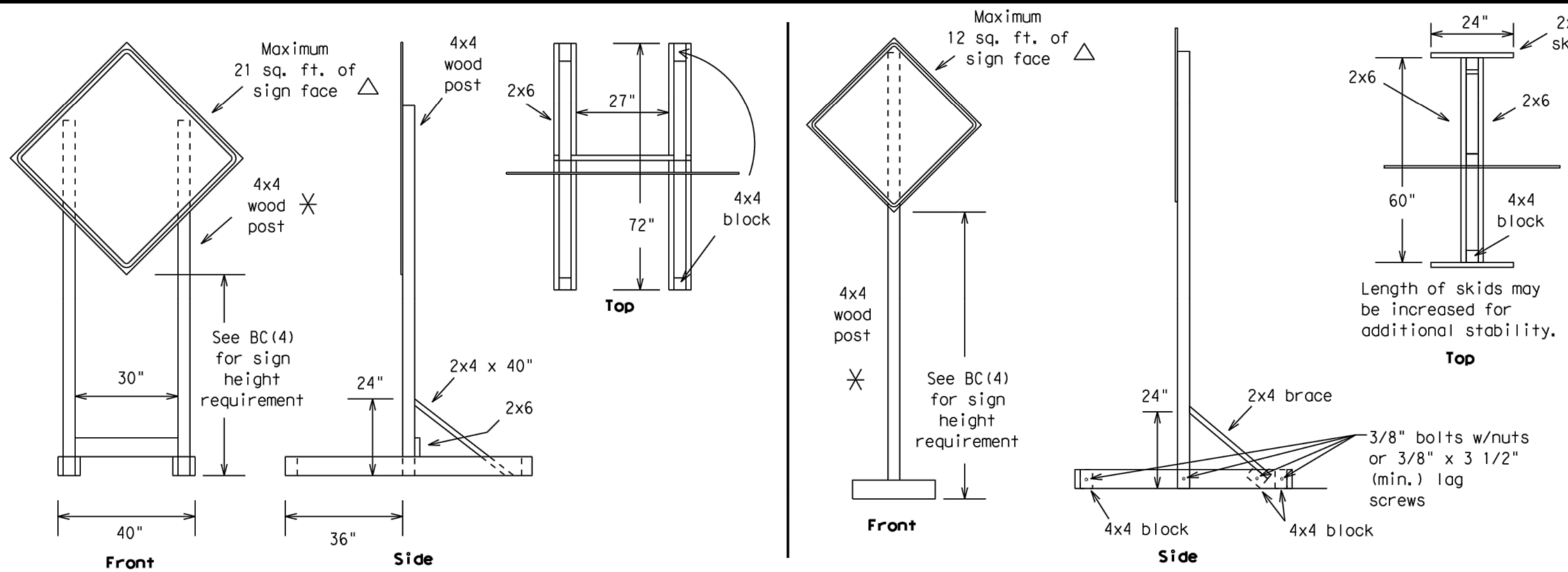


BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

BC (4) - 14

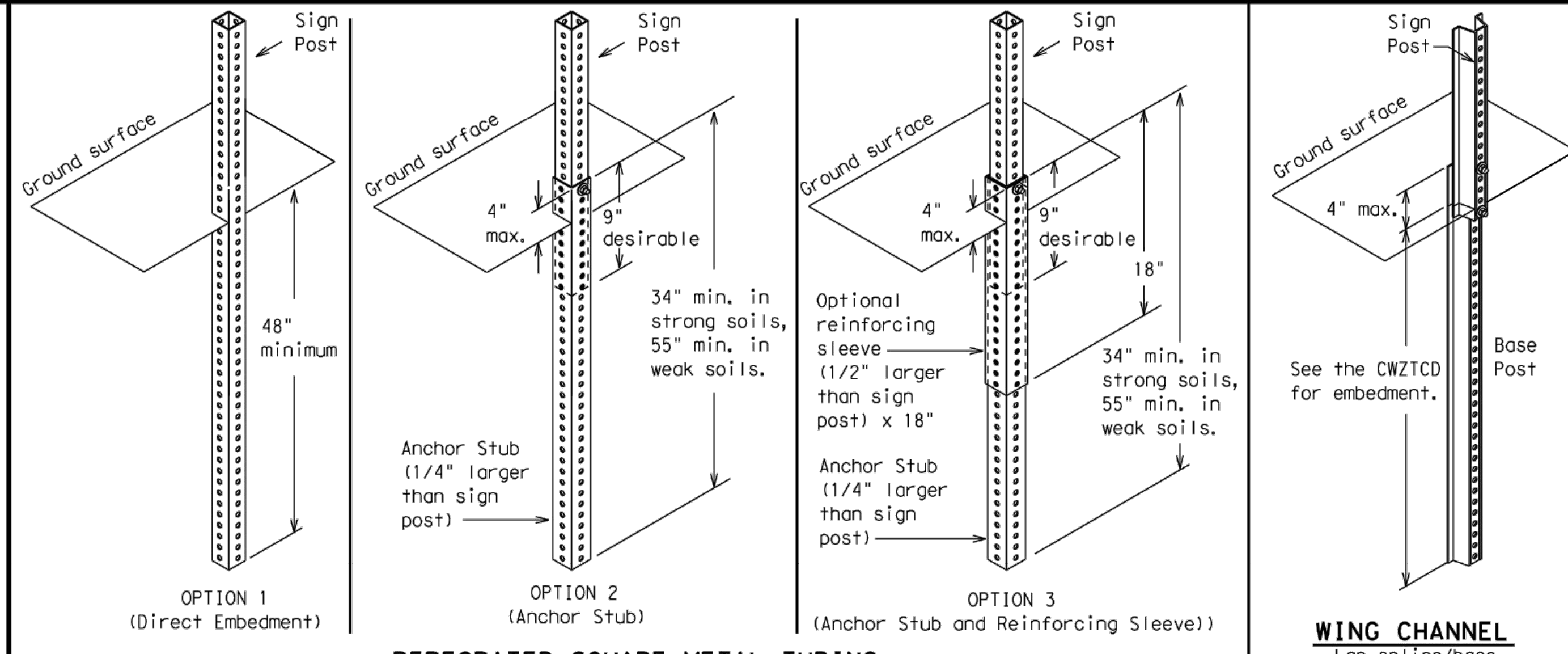
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SKID MOUNTED WOOD SIGN SUPPORTS

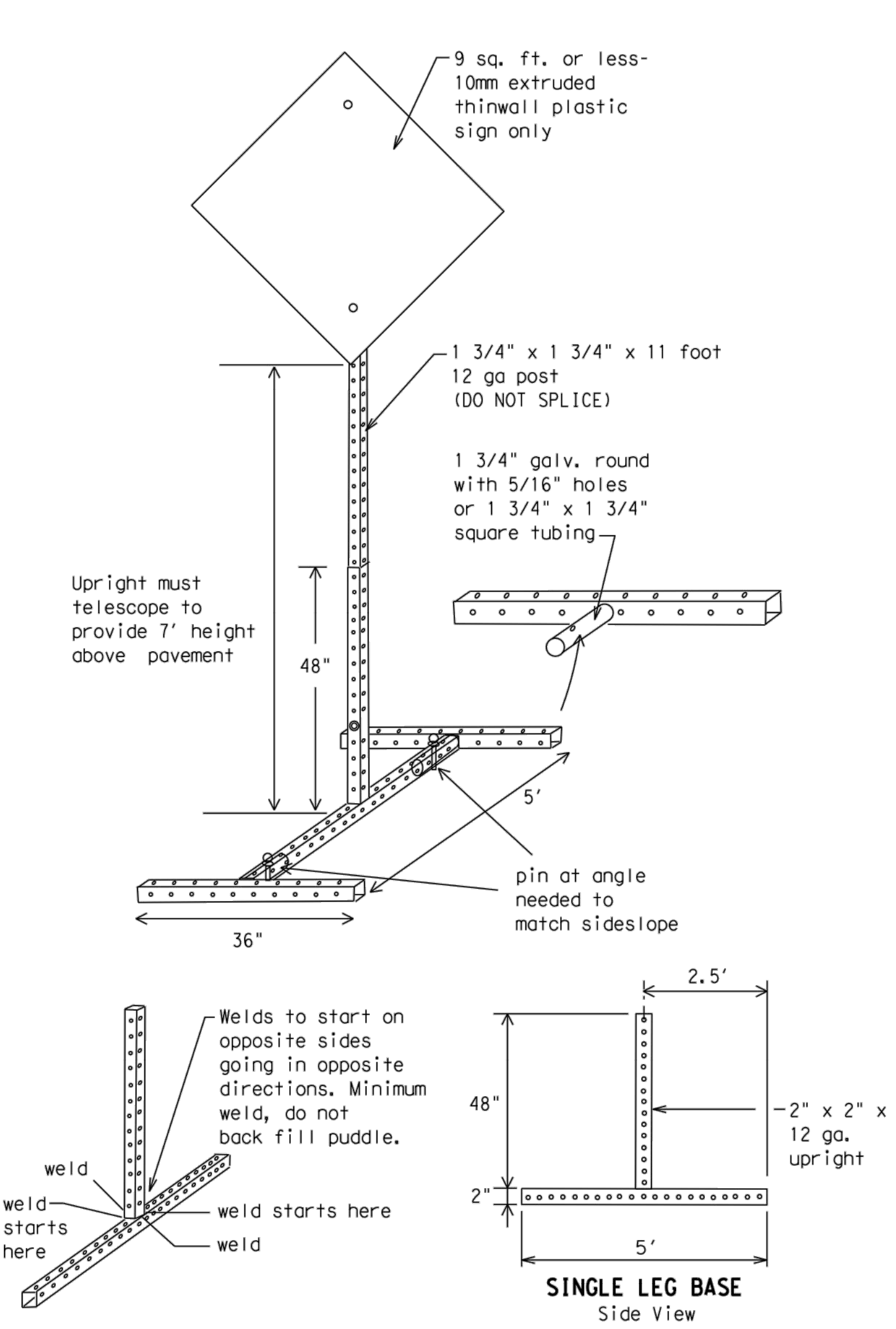
LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS \square



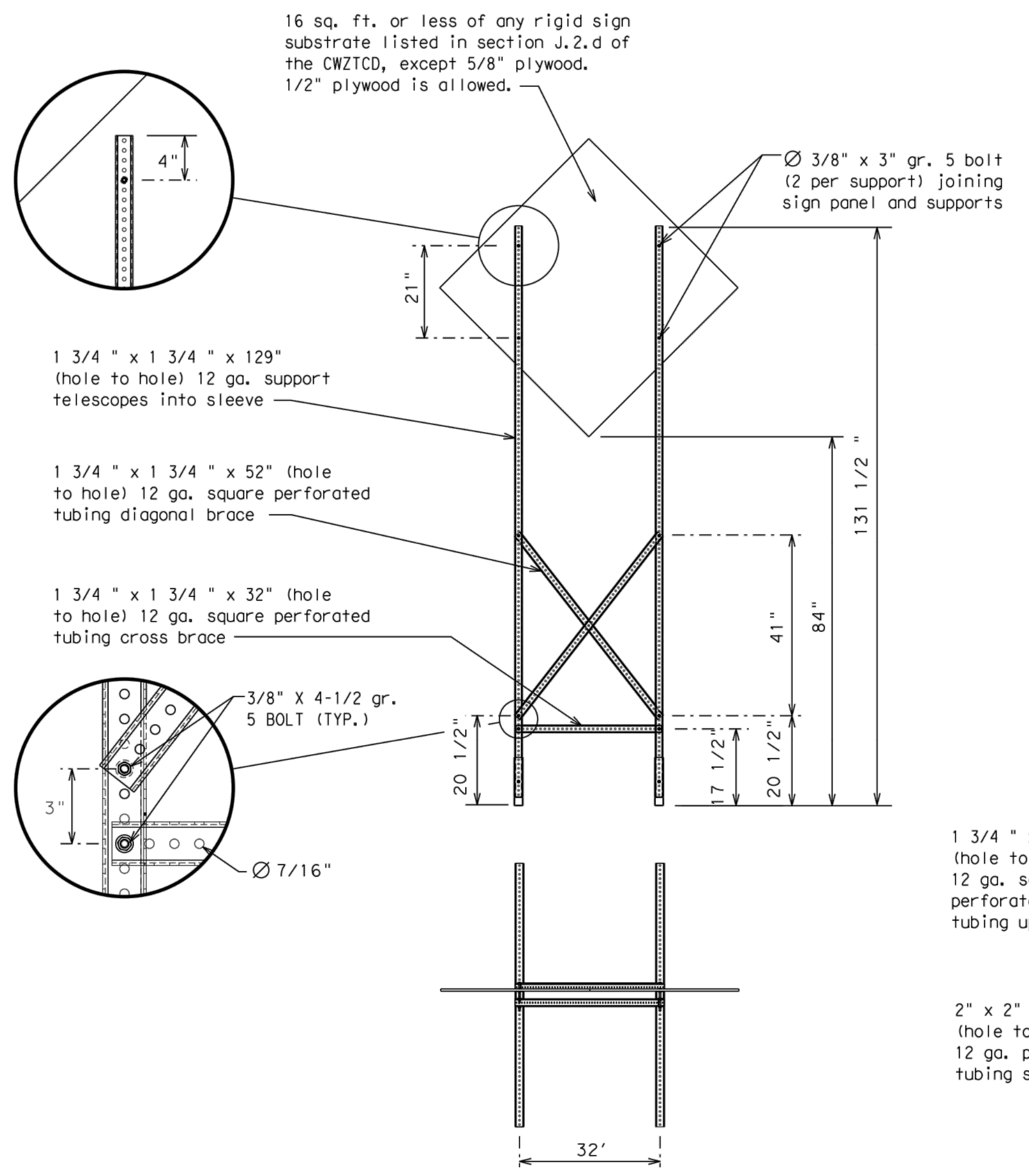
PERFORATED SQUARE METAL TUBING

GROUND MOUNTED SIGN SUPPORTS

Refer to the CWZTCD and the manufacturer's installation procedure for each type sign support. The maximum sign square footage shall adhere to the manufacturer's recommendation. Two post installations can be used for larger signs.



SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS



WOOD POST SYSTEM FOR GROUND MOUNTED SIGN SUPPORTS

Nominal Post Size	Number of Posts	Maximum Sq. feet of Sign Face	Minimum Soil Embedment	Drilled Holes(s) Required
4 x 4	1	12	36"	NO
4 x 4	2	21	36"	NO
4 x 6	1	21	36"	YES
4 x 6	2	36	36"	YES

WEDGE ANCHORS

Both steel and plastic Wedge Anchor Systems as shown on the SMD Standard Sheets may be used as temporary sign supports for signs up to 10 square feet of sign face. They may be set in concrete or in sturdy soils if approved by the Engineer. (See web address for "Traffic Engineering Standard Sheets" on BC(1)).

OTHER DESIGNS

MORE DETAILS OF APPROVED LONG/INTERMEDIATE AND SHORT TERM SUPPORTS CAN BE FOUND ON THE CWZTCD LIST. SEE BC(1) FOR WEBSITE LOCATION.

GENERAL NOTES

- Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final connection.
- No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
- When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.

- \square See BC(4) for definition of "Work Duration."
- \times Wood sign posts MUST be one piece. Splicing will NOT be allowed. Posts shall be painted white.
- Δ See the CWZTCD for the type of sign substrate that can be used for each approved sign support.

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BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

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WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

(The Engineer may approve other messages not specifically covered here.)

PORTABLE CHANGEABLE MESSAGE SIGNS

- The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," "FOR," "AT," etc.
- Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
- Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
- Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway.
- When in use the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
- The message term "WEEKEND" should be used only if the work is to start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
- The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
- Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
- Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line.
- Do not use the word "Danger" in message.
- Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
- Do not display messages that scroll horizontally or vertically across the face of the sign.
- The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
- PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
- Each line of text should be centered on the message board rather than left or right justified.
- If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD	Major	MAJ
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Cannot	CANT	North	N
Center	CTR	Northbound	(route) N
Construction Ahead	CONST AHD	Parking	PKING
CROSSING	XING	Road	RD
Detour Route	DETOUR RTE	Right Lane	RT LN
Do Not	DONT	Saturday	SAT
East	E	Service Road	SERV RD
Eastbound	(route) E	Shoulder	SHLDR
Emergency	EMER	Slippery	SLIP
Emergency Vehicle	EMER VEH	South	S
Entrance, Enter	ENT	Southbound	(route) S
Express Lane	EXP LN	Speed	SPD
Expressway	EXPWY	Street	ST
XXXX Feet	XXXX FT	Sunday	SUN
Fog Ahead	FOG AHD	Telephone	PHONE
Freeway	FRWY, FWY	Temporary	TEMP
Freeway Blocked	FWY BLKD	Thursday	THURS
Friday	FRI	To Downtown	TO DWTN
Hazardous Driving	HAZ DRIVING	Traffic	TRAF
Hazardous Material	HAZMAT	Travelers	TRVLR
High-Occupancy	HOV	Tuesday	TUES
Vehicle	HWY	Time Minutes	TIME MIN
Hour(s)	HR, HRS	Upper Level	UPR LEVEL
Information	INFO	Vehicles (s)	VEH, VEHS
It Is	ITS	Warning	WARN
Junction	JCT	Wednesday	WED
Left	LFT	Weight Limit	WT LIMIT
Left Lane	LFT LN	West	W
Lane Closed	LN CLOSED	Westbound	(route) W
Lower Level	LWR LEVEL	Wet Pavement	WET PVMT
Maintenance	MAINT	Will Not	WONT

Roadway designation # IH-number, US-number, SH-number, FM-number

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

FREEWAY CLOSED X MILE
ROAD CLOSED AT SH XXX
ROAD CLSD AT FM XXXX
RIGHT X LANES CLOSED
CENTER LANE CLOSED
NIGHT LANE CLOSURES
VARIOUS LANES CLOSED
EXIT CLOSED
MALL DRIVEWAY CLOSED
XXXXXXXX BLVD CLOSED

Other Condition List

FRONTAGE ROAD CLOSED
SHOULDER CLOSED XXX FT
RIGHT LN CLOSED XXX FT
RIGHT X LANES OPEN
DAYTIME LANE CLOSURES
I-XX SOUTH EXIT CLOSED
EXIT XXX CLOSED X MILE
RIGHT LN TO BE CLOSED
X LANES CLOSED TUE - FRI

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

Phase 2: Possible Component Lists

Action to Take/Effect on Travel List

MERGE RIGHT
DETOUR NEXT X EXITS
USE EXIT XXX
STAY ON US XXX SOUTH
TRUCKS USE US XXX N
WATCH FOR TRUCKS
EXPECT DELAYS
REDUCE SPEED XXX FT
USE OTHER ROUTES
STAY IN LANE *

Location List

AT FM XXXX
BEFORE RAILROAD CROSSING
NEXT X MILES
PAST US XXX EXIT
XXXXXXXX TO XXXXXX
US XXX TO FM XXXX

Warning List

SPEED LIMIT XX MPH
MAXIMUM SPEED XX MPH
MINIMUM SPEED XX MPH
ADVISORY SPEED XX MPH
RIGHT LANE EXIT
USE CAUTION
DRIVE SAFELY
DRIVE WITH CARE

** Advance Notice List

TUE-FRI XX AM-X PM
APR XX-XX X PM-X AM
BEGINS MONDAY
BEGINS MAY XX
MAY X-X XX PM - XX AM
NEXT FRI-SUN
XX AM TO XX PM
NEXT TUE AUG XX
TONIGHT XX PM-XX AM

** See Application Guidelines Note 6.

APPLICATION GUIDELINES

- Only 1 or 2 phases are to be used on a PCMS.
- The 1st phase (or both) should be selected from the "Road/Lane/Ramp Closure List" and the "Other Condition List".
- A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phase Lists".
- A Location Phase is necessary only if a distance or location is not included in the first phase selected.
- If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
- For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

WORDING ALTERNATIVES

- The words RIGHT, LEFT and ALL can be interchanged as appropriate.
- Roadway designations IH, US, SH, FM and LP can be interchanged as appropriate.
- EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
- Highway names and numbers replaced as appropriate.
- ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- AHEAD may be used instead of distances if necessary.
- FT and MI, MILE and MILES interchanged as appropriate.
- AT, BEFORE and PAST interchanged as needed.
- Distances or AHEAD can be eliminated from the message if a location phase is used.

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

FULL MATRIX PCMS SIGNS

- When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE CHANGEABLE MESSAGE SIGNS" above.
- When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above.
- When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or replace that sign.
- A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the same size arrow.

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BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

BC (6) - 14

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GENERAL NOTES

- For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
- For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
- Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

Pre-qualified plastic drums shall meet the following requirements:

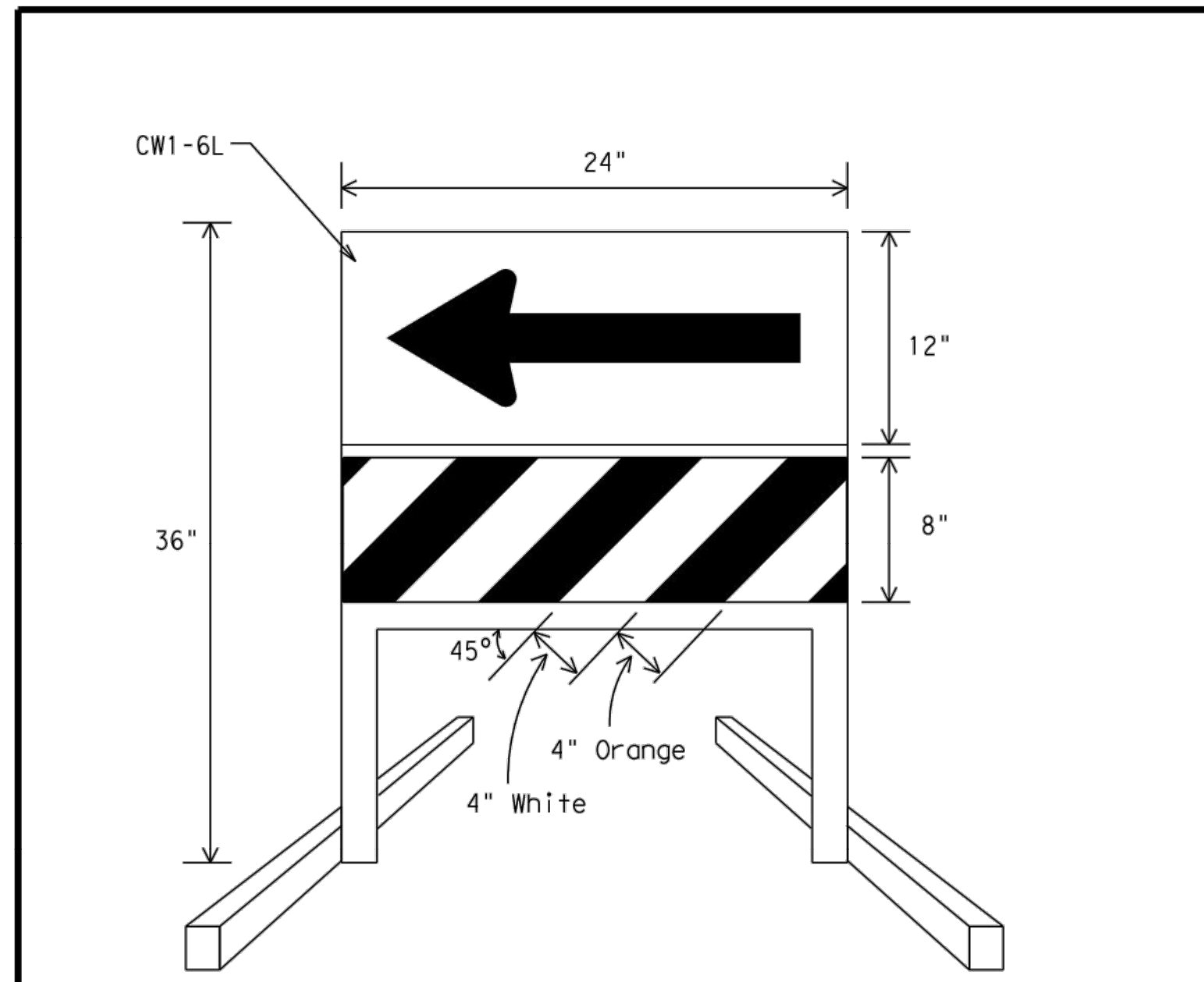
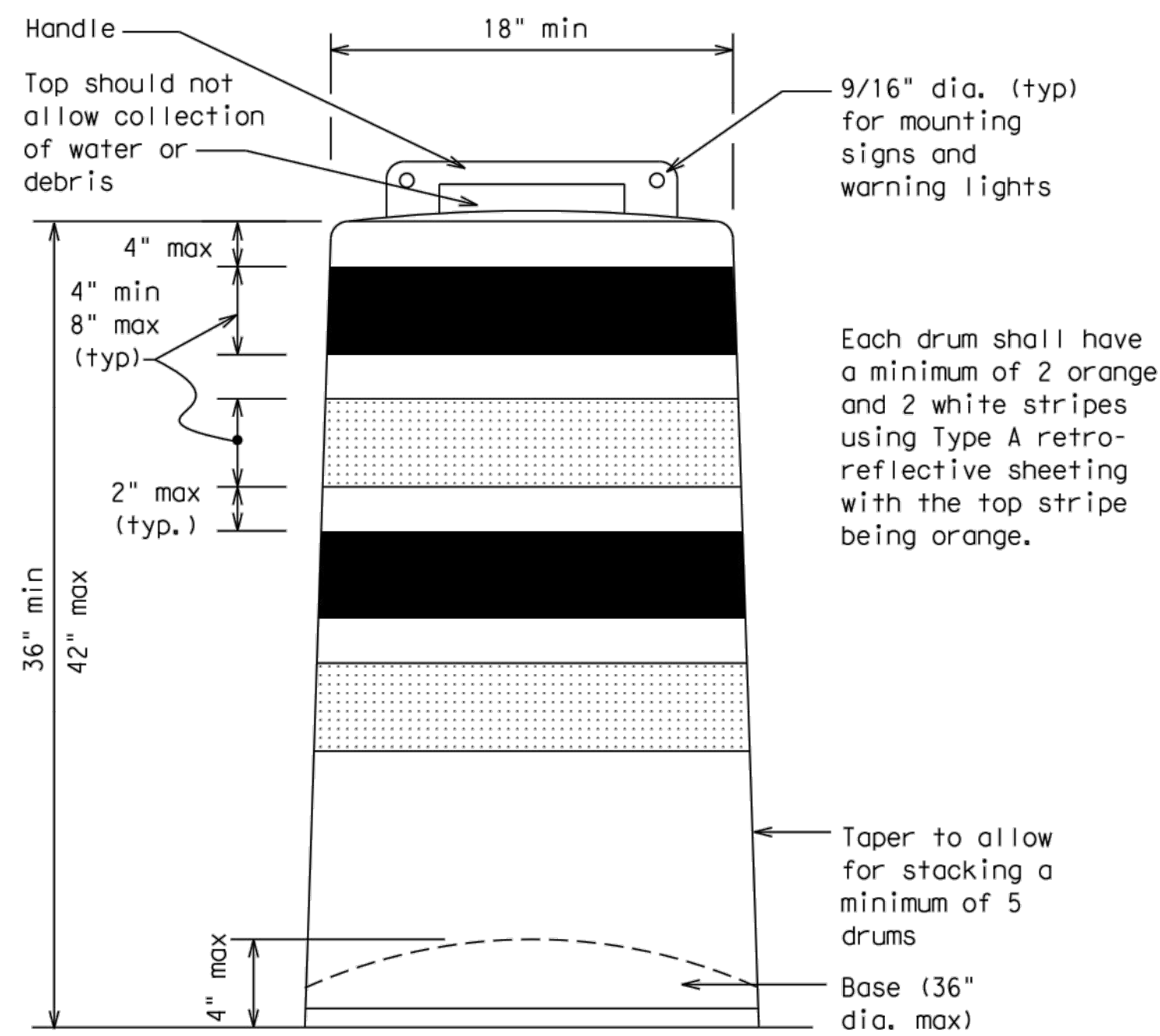
- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
- Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports.
- Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
- The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
- The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
- Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
- Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
- Drum body shall have a maximum unballasted weight of 11 lbs.
- Drum and base shall be marked with manufacturer's name and model number.

RETROREFLECTIVE SHEETING

- The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A reflective sheeting shall be supplied unless otherwise specified in the plans.
- The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

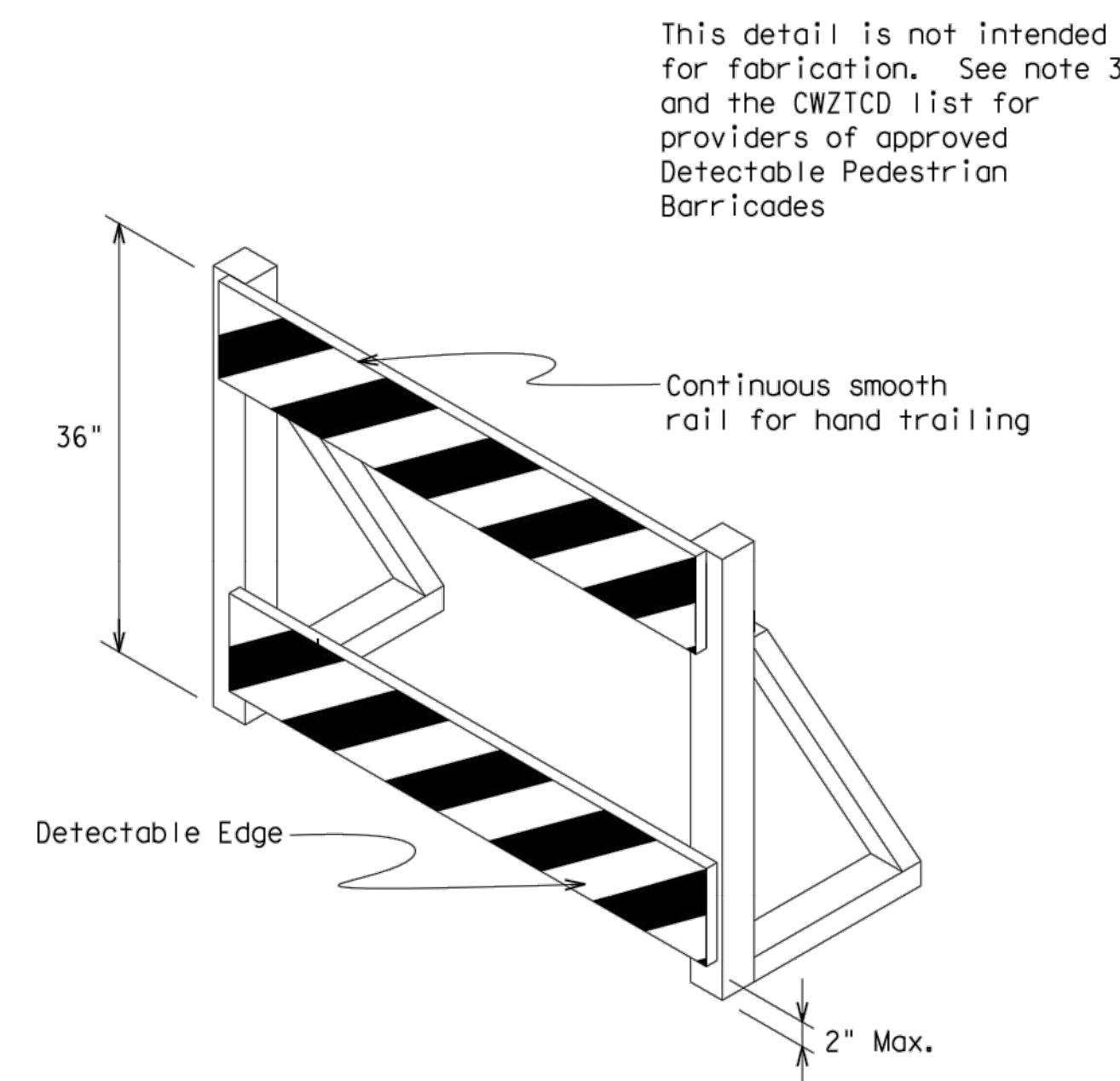
BALLAST

- Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
- Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
- Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
- The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
- When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
- Ballast shall not be placed on top of drums.
- Adhesives may be used to secure base of drums to pavement.



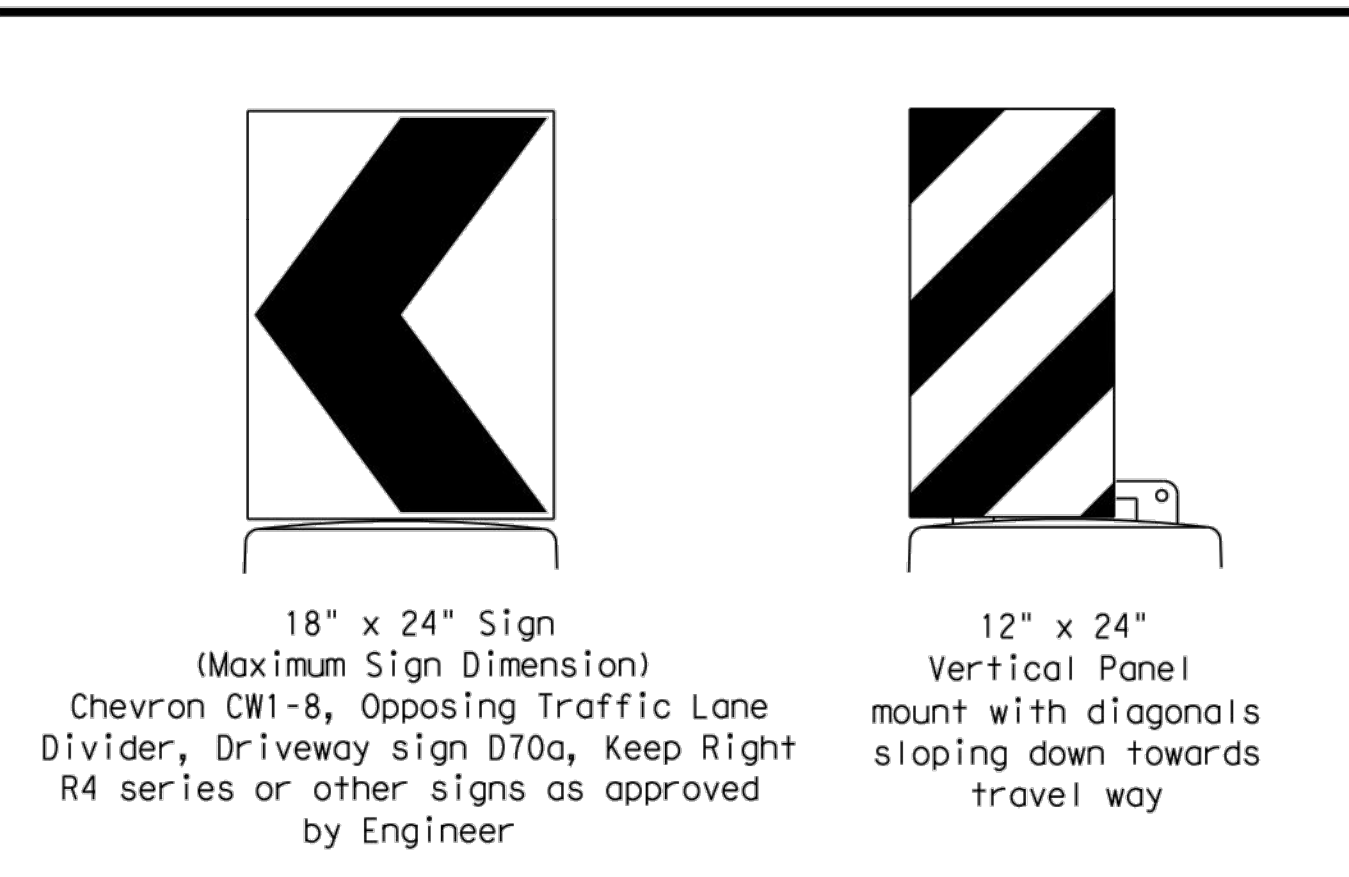
DIRECTION INDICATOR BARRICADE

- The Direction Indicator Barricade may be used in tapers, transitions, and other areas where specific directional guidance to drivers is necessary.
- If used, the Direction Indicator Barricade should be used in series to direct the driver through the transition and into the intended travel lane.
- The Direction Indicator Barricade shall consist of One-Direction Large Arrow (CWI-6) sign in the size shown with a black arrow on a background of Type B_{FL} or Type C_{FL} Orange retroreflective sheeting above a rail with Type A retroreflective sheeting in alternating 4" white and orange stripes sloping downward at an angle of 45 degrees in the direction road users are to pass. Sheeting types shall be as per DMS 8300.
- Double arrows on the Direction Indicator Barricade will not be allowed.
- Approved manufacturers are shown on the CWZTCD List. Ballast shall be as approved by the manufacturers instructions.



DETECTABLE PEDESTRIAN BARRICADES

- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- Where pedestrians with visual disabilities normally use the closed sidewalk, a device that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.
- Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.
- Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG)" and should not be used as a control for pedestrian movements.
- Warning lights shall not be attached to detectable pedestrian barricades.
- Detectable pedestrian barricades may use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.



Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

- Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
- Chevrons and other work zone signs with an orange background shall be manufactured with Type B_{FL} or Type C_{FL} Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
- Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
- Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
- Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
- Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
- Chevrons may be placed on drums on the outside of curves, on merging tapers or on shifting tapers. When used in these locations they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.
- R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

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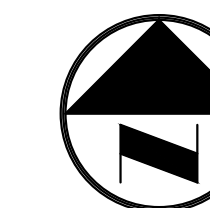


BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

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REVISIONS				
4-03 7-13	DIST	COUNTY	SHEET NO.	
9-07 8-14				EX-L

DATE: FILE:



SITE DATA TABLE		
ZONING: DC-G (DOWNTOWN COMMERCIAL GENERAL)		
SQUARE FOOTAGE OF LOT (excluding easments & R.O.W.)	44,635 SF	PROVIDED
SQUARE FOOTAGE OF LOT (including easments & R.O.W.)	51,905 SF	
NEW TREE CANOPY (MATURE CANOPY=1,250 SF); 9 CANOPY TREES X 1,250 SF	11,250 SF	
TOTAL PERVIOUS LANDSCAPE AREA	9,514 SF	
IMPERVIOUS PARKING AREA	31,643 SF	
PERVIOUS PARKING AREA	0 SF	
LANDSCAPED PARKING AREAS	9,514 SF = 30%	
PARKING LOT TREE CANOPY (MATURE CANOPY=1,250 SF); 13 CANOPY TREES X 1,250 SF	11,250 SF = 36%	
SITE ELEMENTS		
IMPERVIOUS PARKING SPACES	100	86
ACCESSIBLE PARKING SPACES	4	4
BICYCLE PARKING (1 SPACE / 20 VEHICULAR PARKING STALLS)		
BICYCLE SPACES (87 SPACES / 20 = 4.3 SPACES)	4	4
PARKING LOT MONUMENT SIGN	2	2
DOWNTOWN KIOSK	1	1

PLANT SCHEDULE			
TREES			
	QF	9	QUERCUS VIRGINIANA 'ESCAPRMENT' LIVE OAK 'ESCAPRMENT'
	VC	6	VITEX AGNUS-CASTUS 'SHOAL CREEK' CHASTE TREE
SHRUBS			
	IN	11	ILEX VOMITORIA 'NANA' DWARF YAUPON
	LCR	17	LANTANA CAMARA 'ROBPATRAI' PATRIOT RAINBOW COMPACT LANTANA
	LC	10	LEUCOPHYLLUM CANDIDUM 'COMPACTA' DWARF TEXAS SAGE
	MD	9	MALVAVISCUS DRUMMONDII TURK'S CAP
	RD	13	ROSMARINUS OFFICINALIS 'BLUE SPRIES' ROSEMARY
	SG	4	SALVIA GREGGII AUTUMN SAGE
ANNUALS/PERENNIALS			
	AP	23	ARTEMISIA X 'POWIS CASTLE' POWIS CASTLE ARTEMISIA
CACTI/SUCCULANTS			
	DW	2	DASYLIRION WHEELERI GREY DESERT SPOON
	HP	22	HESPERALOE PARVIFLORA RED YUCCA
	YR	6	YUCCA RECURVIFOLIA SOFT LEAF YUCCA
ORNAMENTAL GRASSES			
	FE	47	FESTUCA GLAUCA 'ELIJAH BLUE' BLUE FESCUE
	MR	15	MUHLENBERGIA CAPILLARIS 'REGAL MIST'™ PINK MUHLY
GROUND COVERS			
	CP2	68	CAREX X 'PHOENIX GREEN' ICE DANCE SEDGE
	CV	45	COREOPSIS VERTICILLATA 'MOONBEAM' THREADLEAF COREOPSIS
	EP2	148	ECHINACEA PURPUREA PURPLE CONEFLOWER
	JM	124	JUNIPERUS HORIZONTALIS 'MOTHER LODE' CREEPING JUNIPER
	LS2	125	LAMPFRANTHUS SPECTABILIS TRAILING ICE PLANT

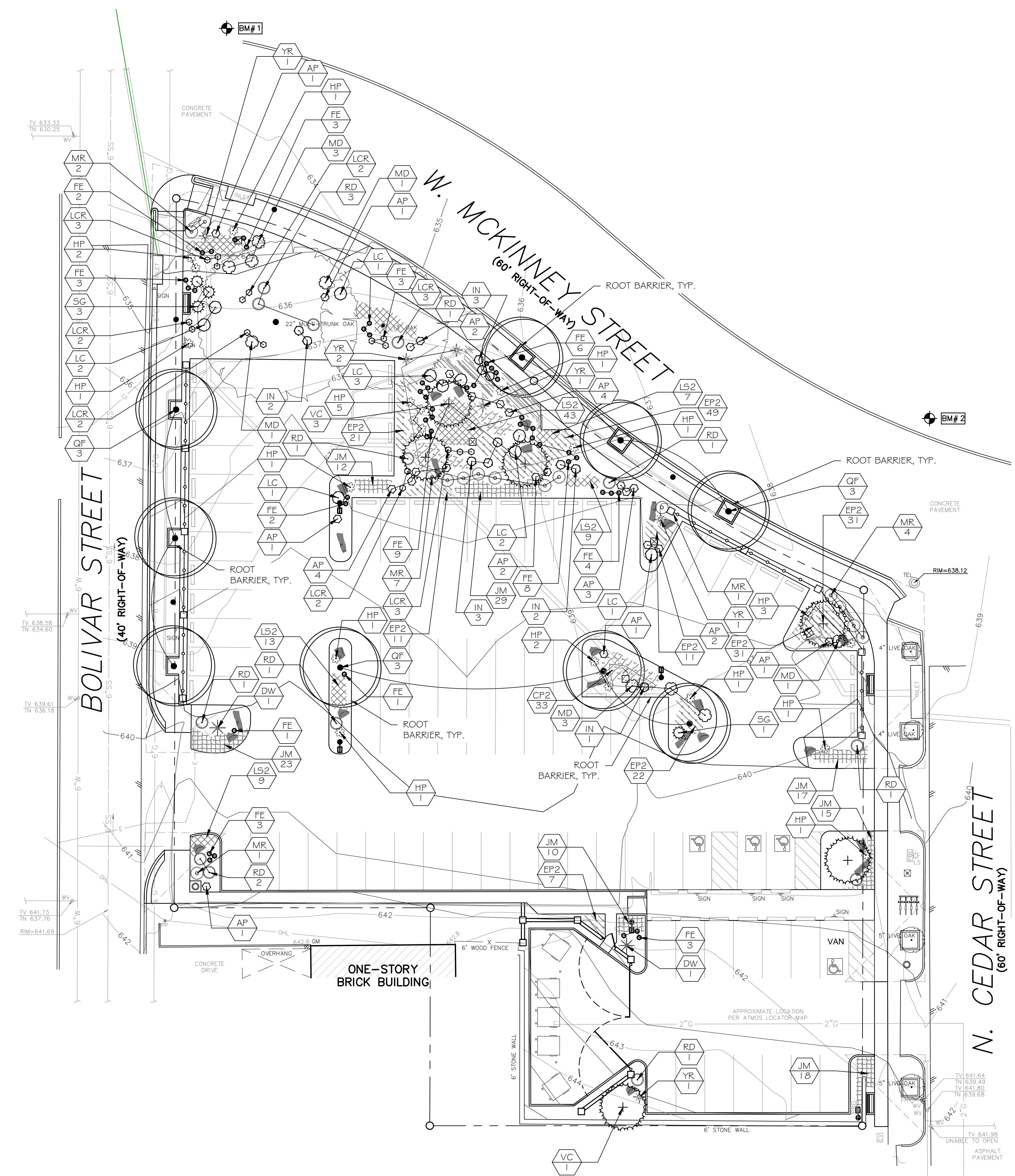
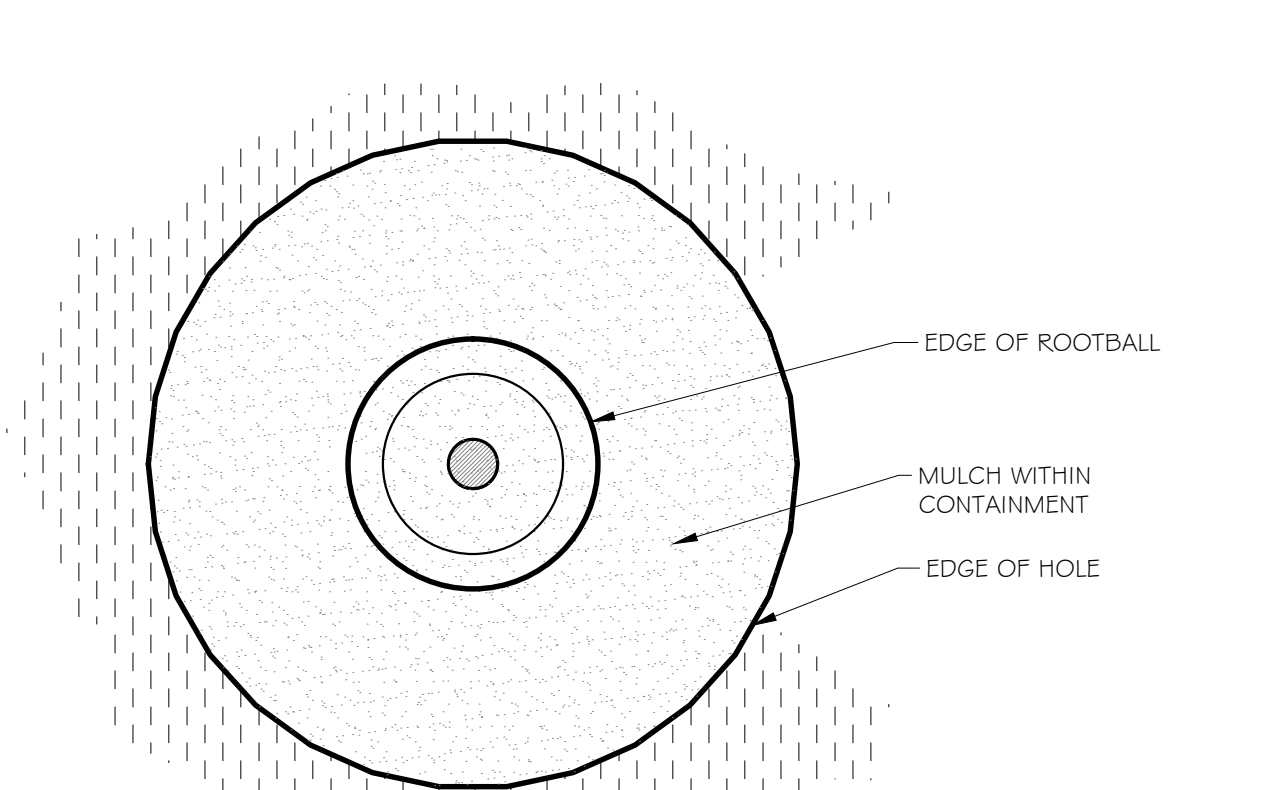
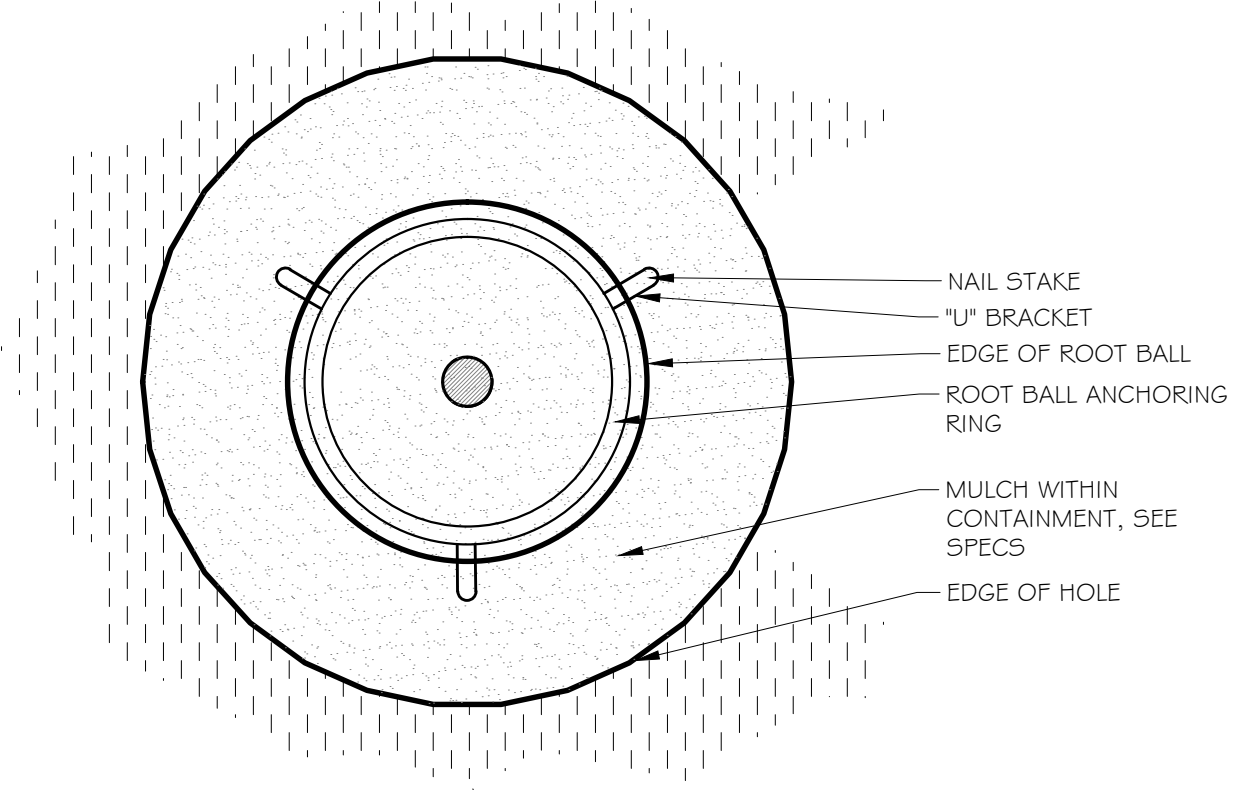


EXHIBIT M1-PLANTING PLAN				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY CRR	CHECKED BY NGN	SCALE 1"=20'	DATE JUNE 2017	NO. EX-M1

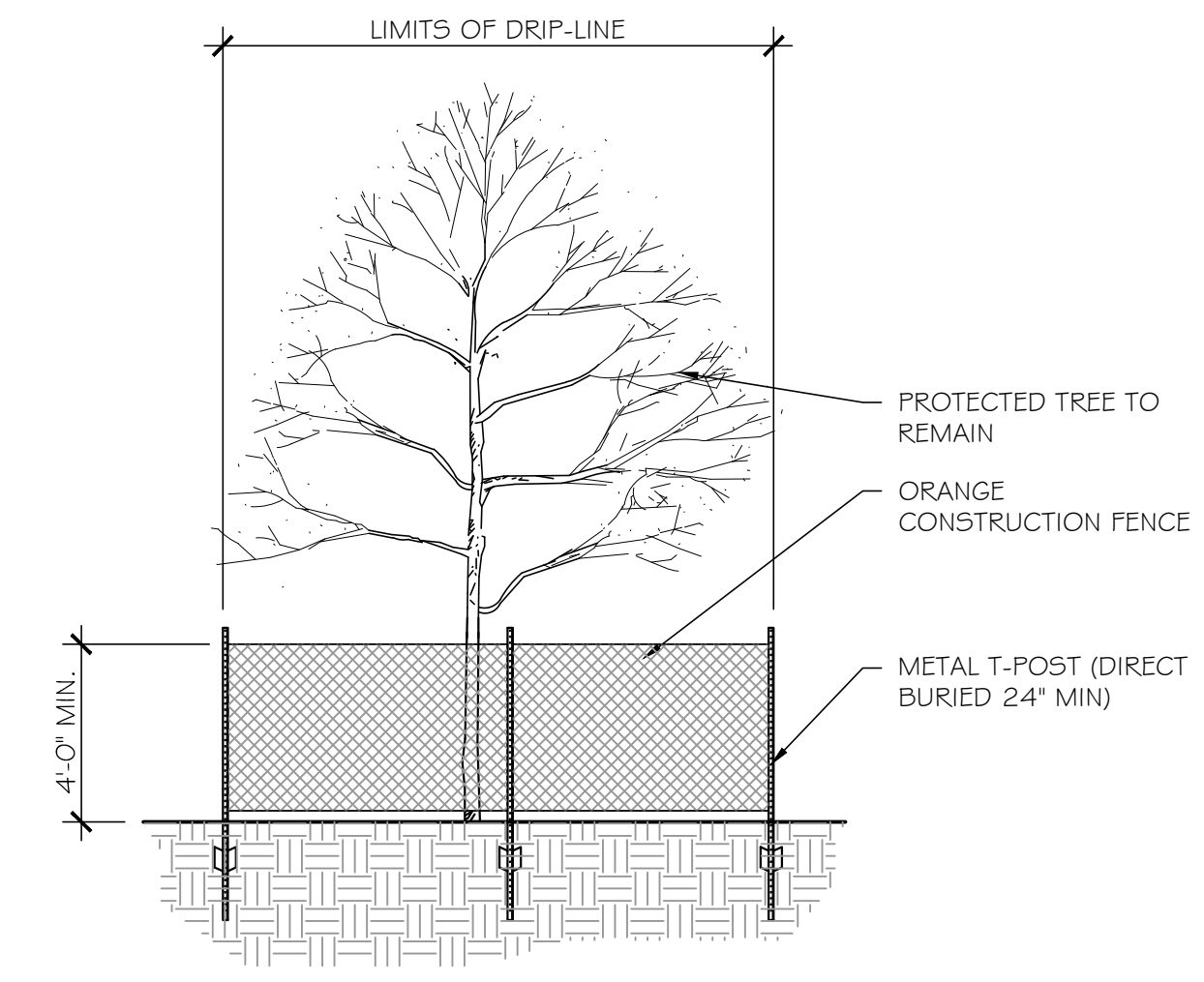
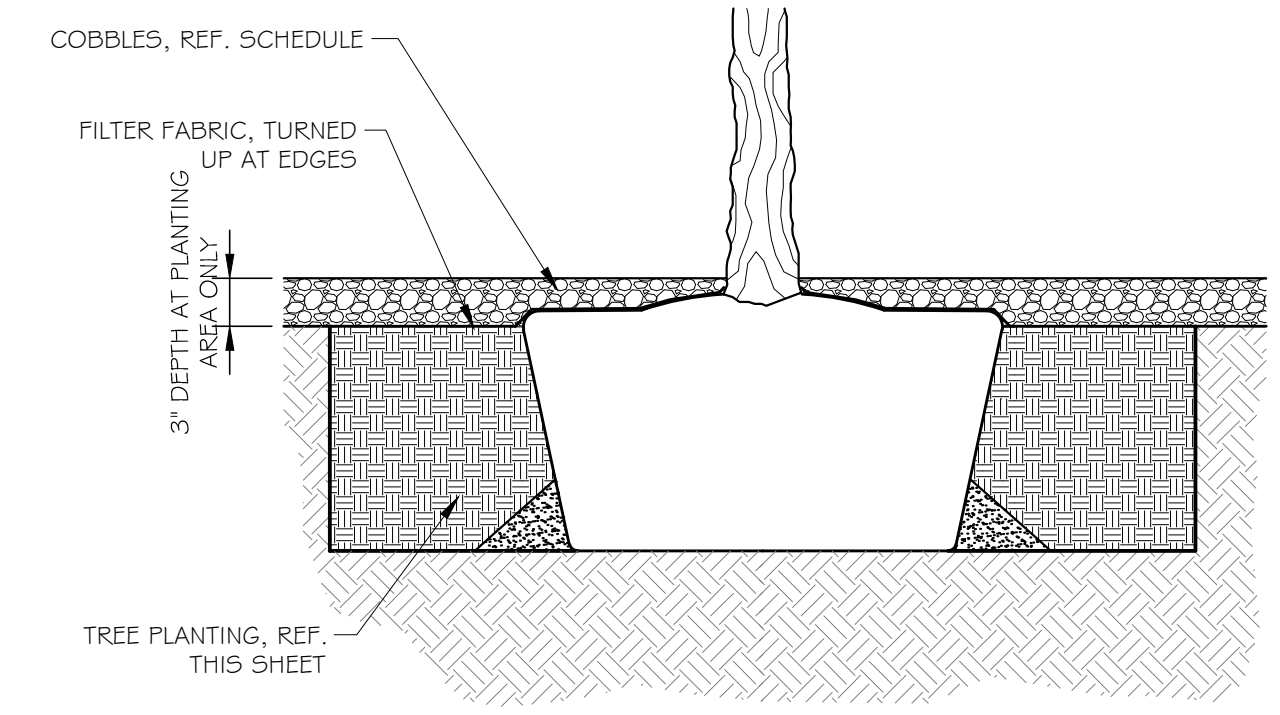
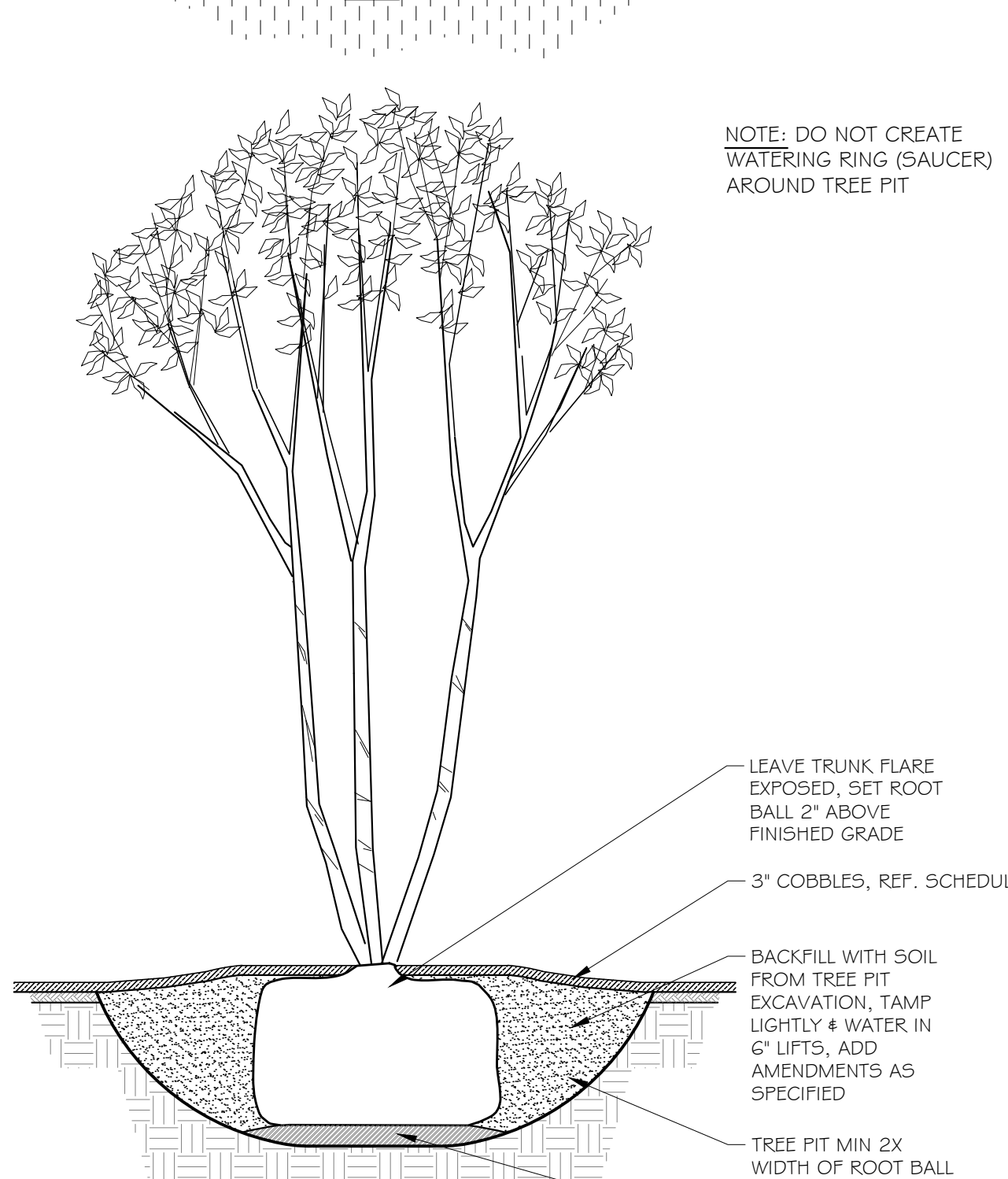
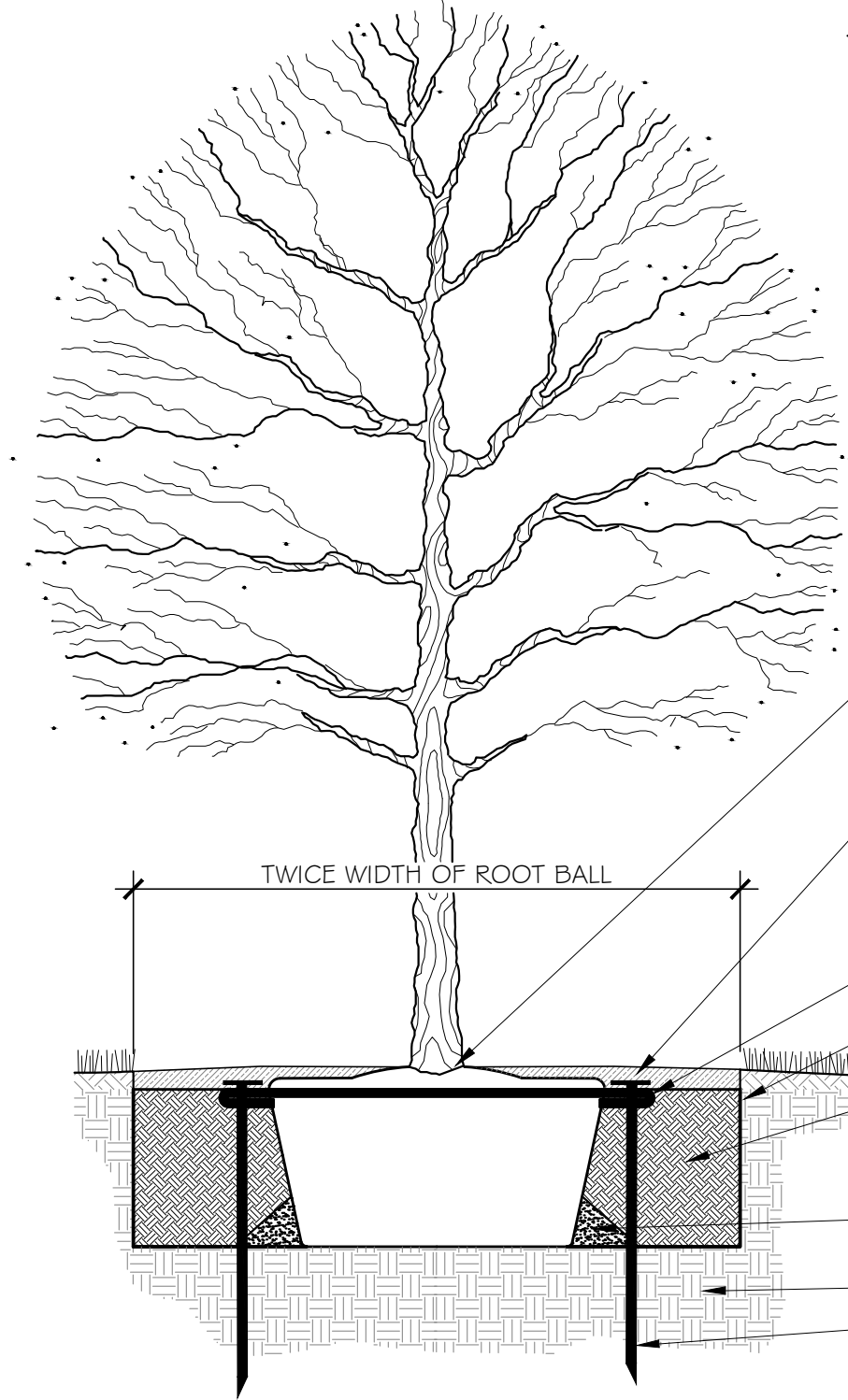
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OLD CENTRAL PARKING LOT



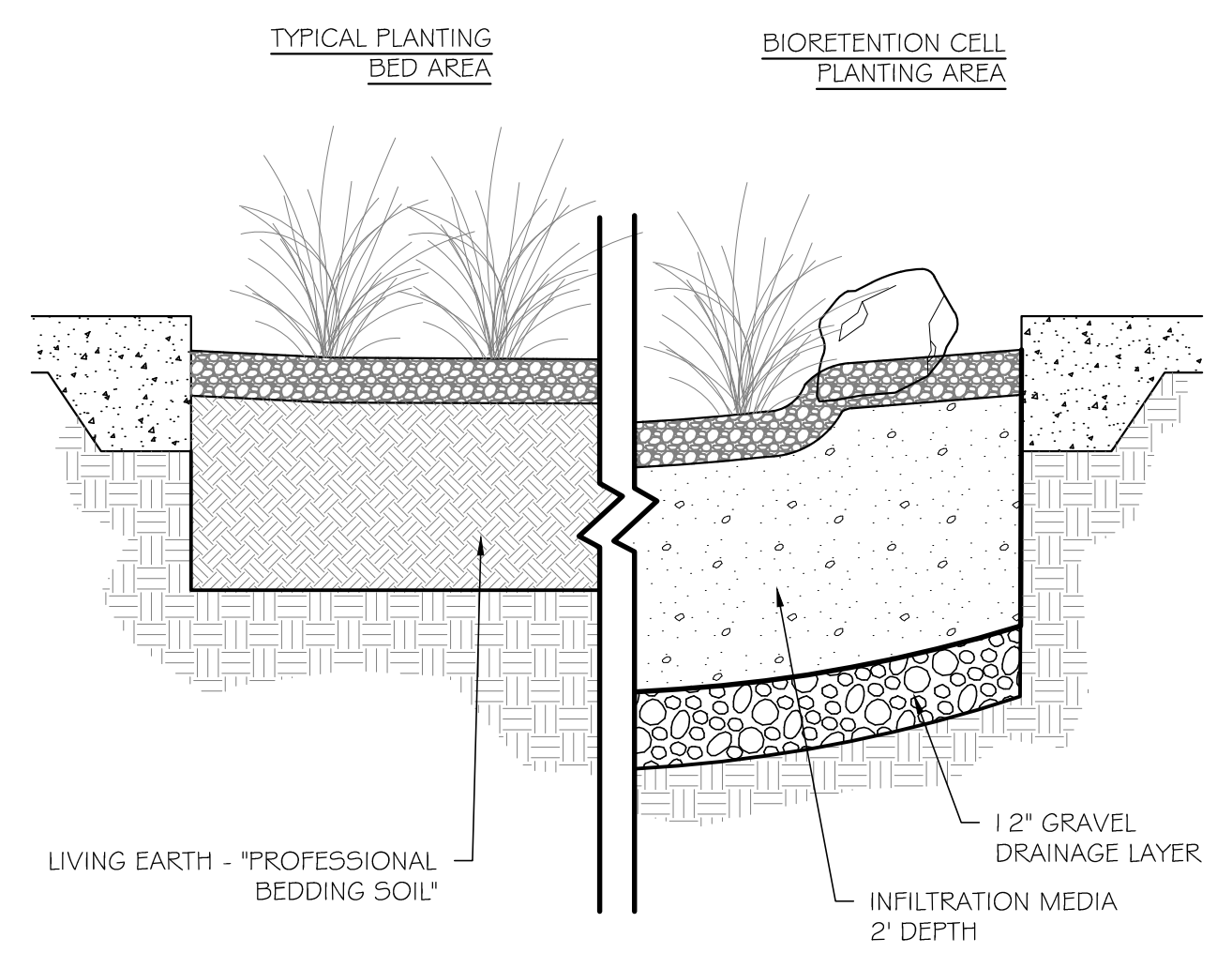
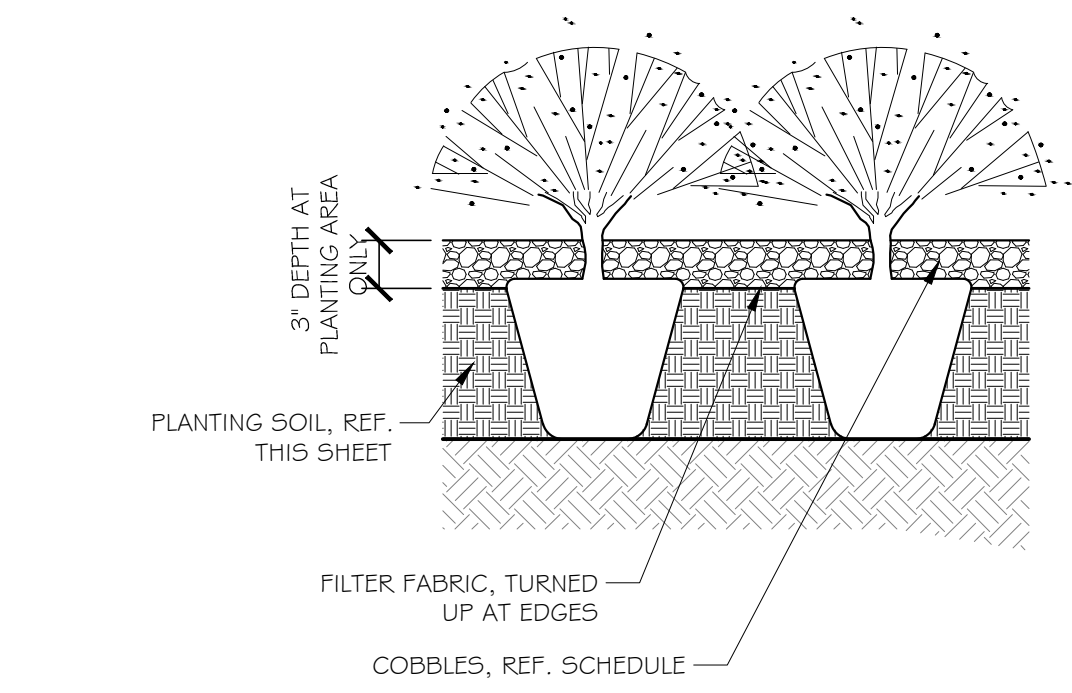
NOTE: DO NOT CREATE WATERING RING (SAUCER) AROUND TREE PIT

NOTE: DO NOT CREATE WATERING RING (SAUCER) AROUND TREE PIT



4 TREE PLANTING AT COBBLE MULCH
1" = 1'-0"

6 TREE PROTECTION FENCING
3/4" = 1'-0"

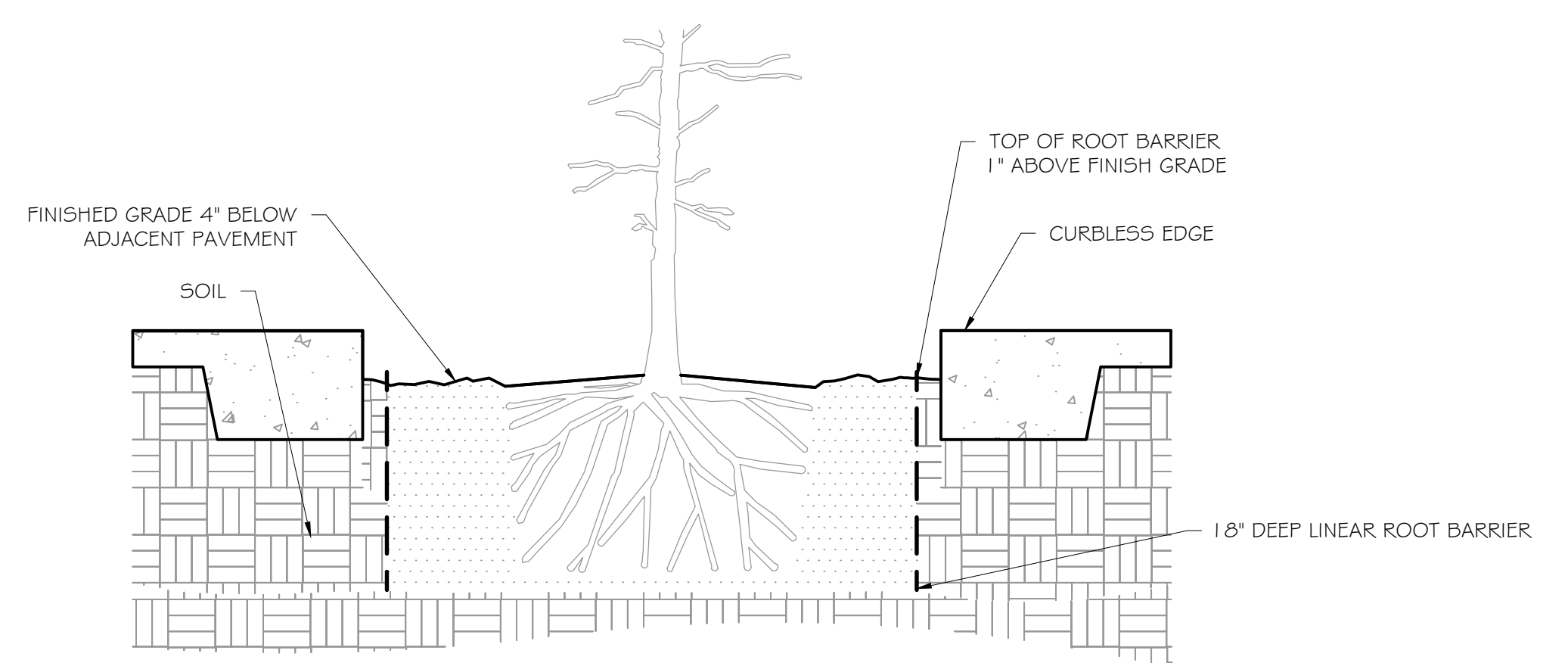


5 SHRUB PLANTING IN COBBLE MULCH
1" = 1'-0"

7 TYPICAL PLANTING MEDIUMS
3/4" = 1'-0"

1 CANOPY TREE W/ UNDERGROUND STAKES
3/4" = 1'-0" P2-PK-03

2 MULT-TRUNK TREE PLANTING
3/4" = 1'-0"



SECTION VIEW

Notes:
1- Root barriers shall be rigid plastic that complies with City of Denton requirements and installed per manufacturer's specifications and recommendations.
2- Root barriers shall be installed when root ball is located within 5' of pavement.
3- Install in penmeter of parking area and islands

3 ROOT BARRIERS - TYP.
1" = 1'-0"

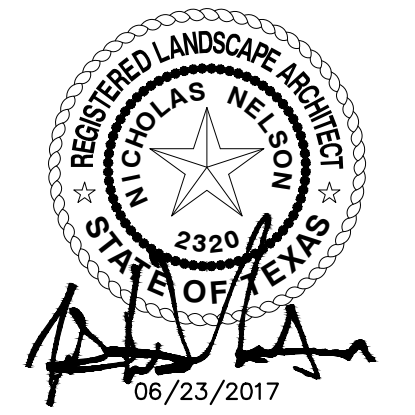
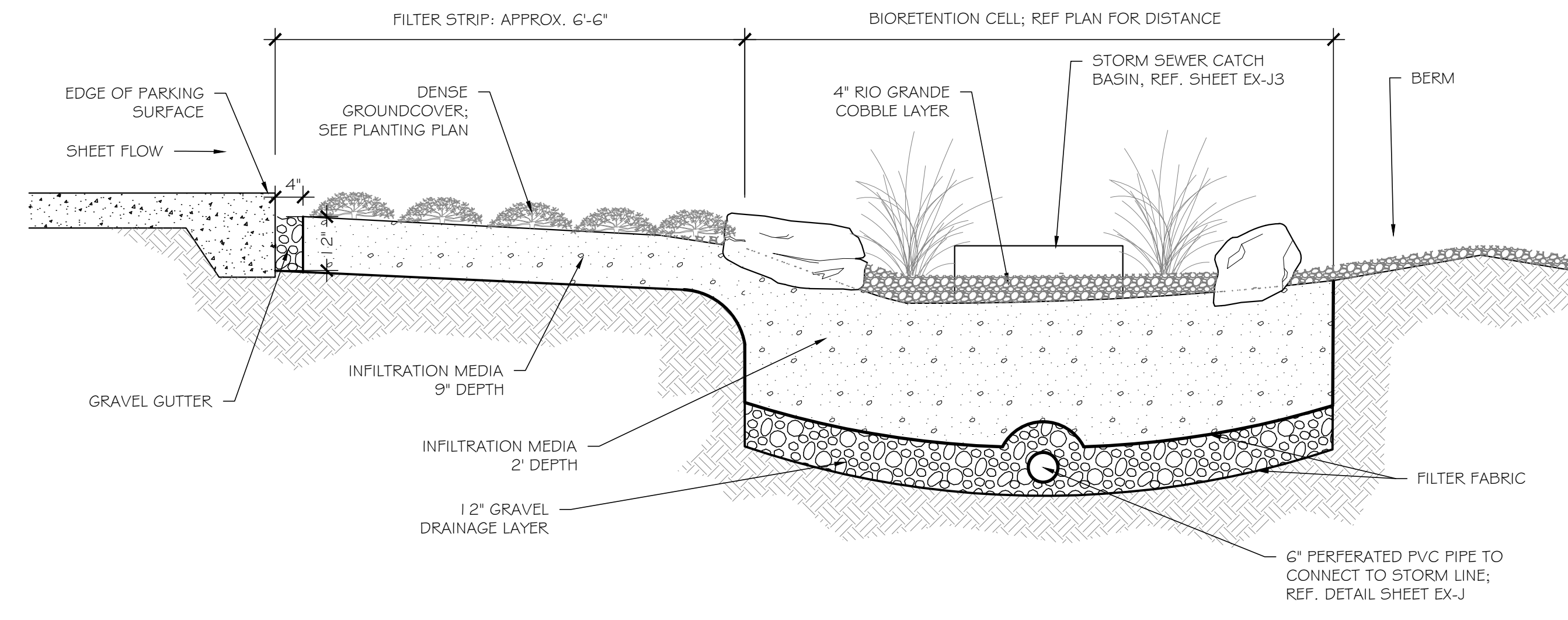
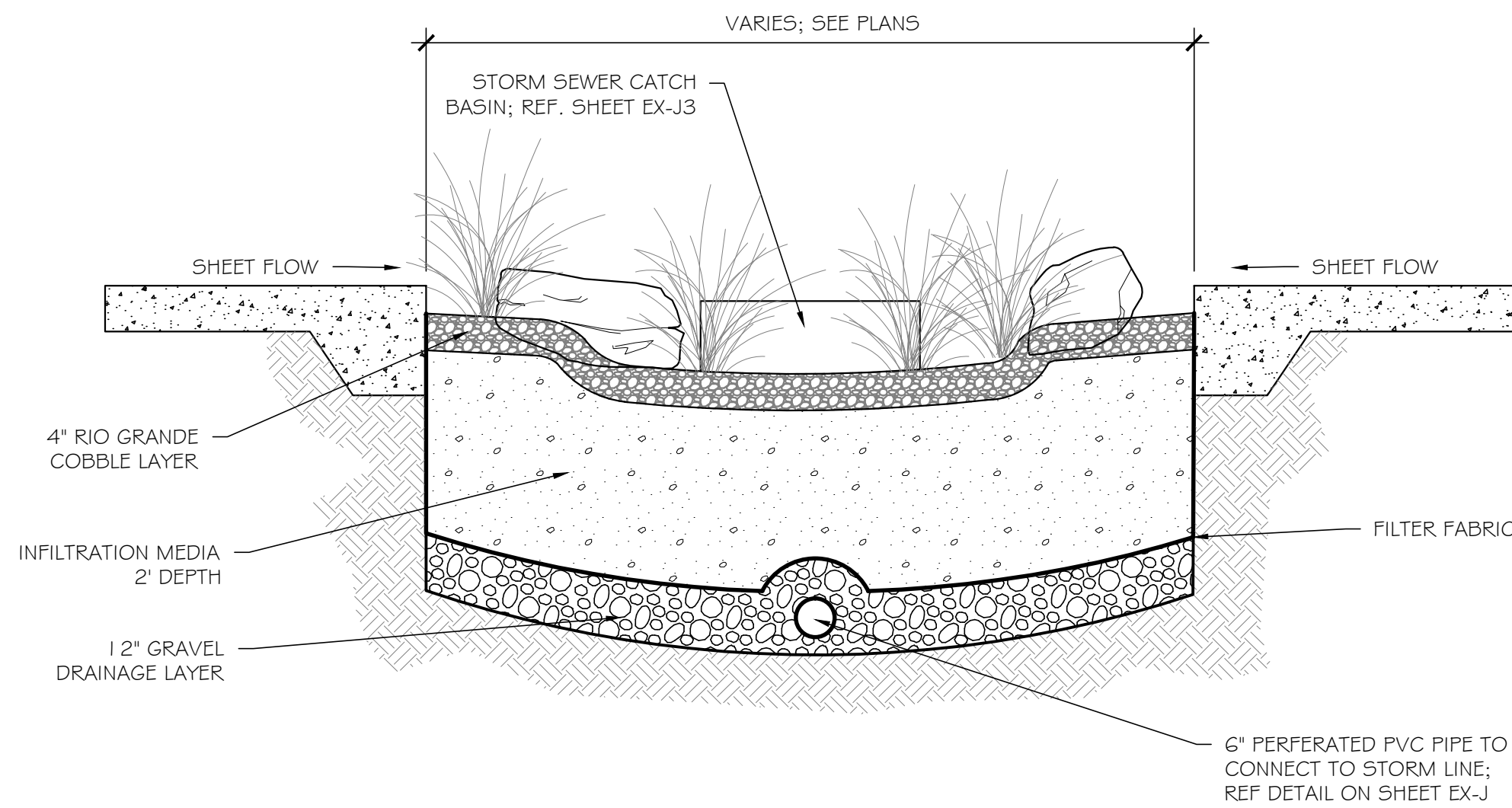


EXHIBIT M2-PLANTING DETAILS				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY CRR	CHECKED BY NGN	SCALE AS SHOWN	DATE JUNE 2017	NO. EX-M2

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OLD CENTRAL PARKING LOT

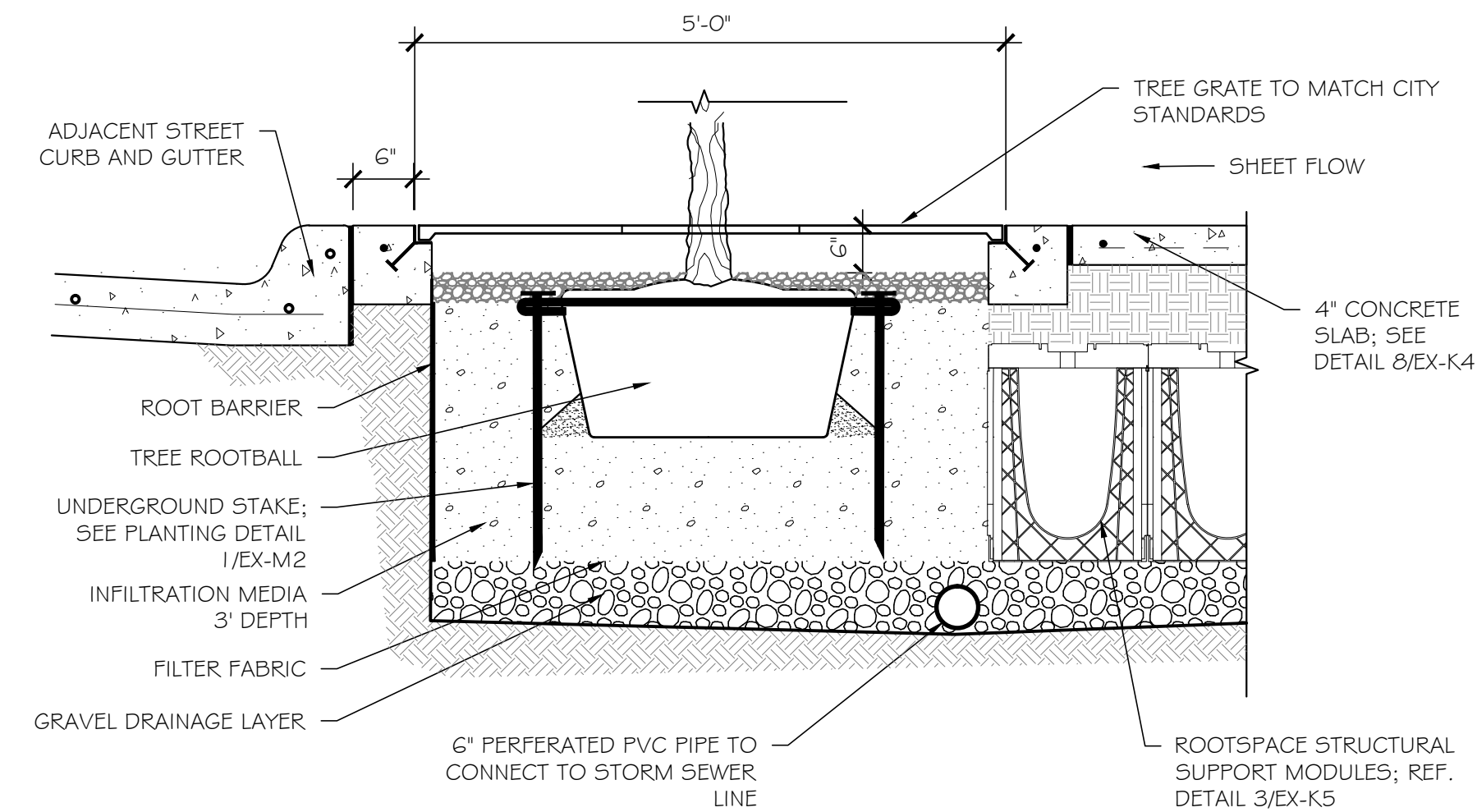
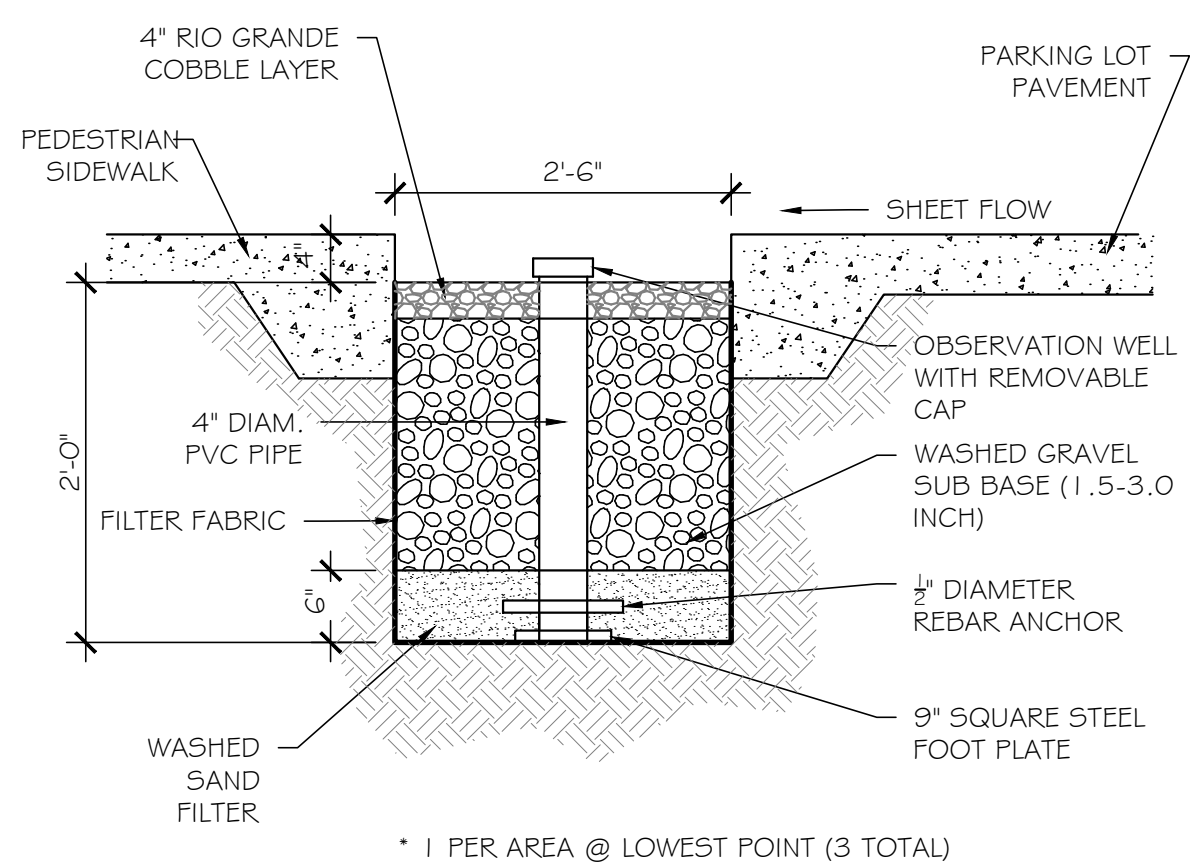


1 PARKING ISLAND BIORETENTION CELL

2 BIORETENTION CELL WITH FILTER STRIP

3/4" = 1'-0" 0 1 2 4 FT

3/4" = 1'-0" 0 1 2 4 FT



3 INFILTRATION TRENCH

4 TREE WELL & PLANTER BOX

3/4" = 1'-0" 0 1 2 4 FT

3/4" = 1'-0" 0 1 2 4 FT

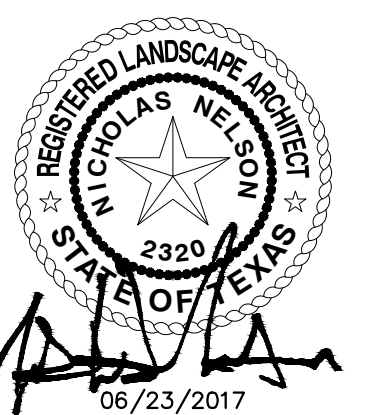
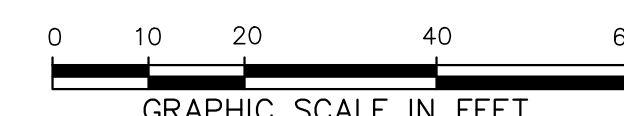
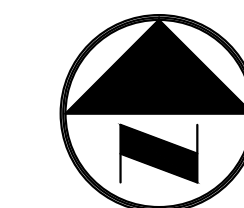


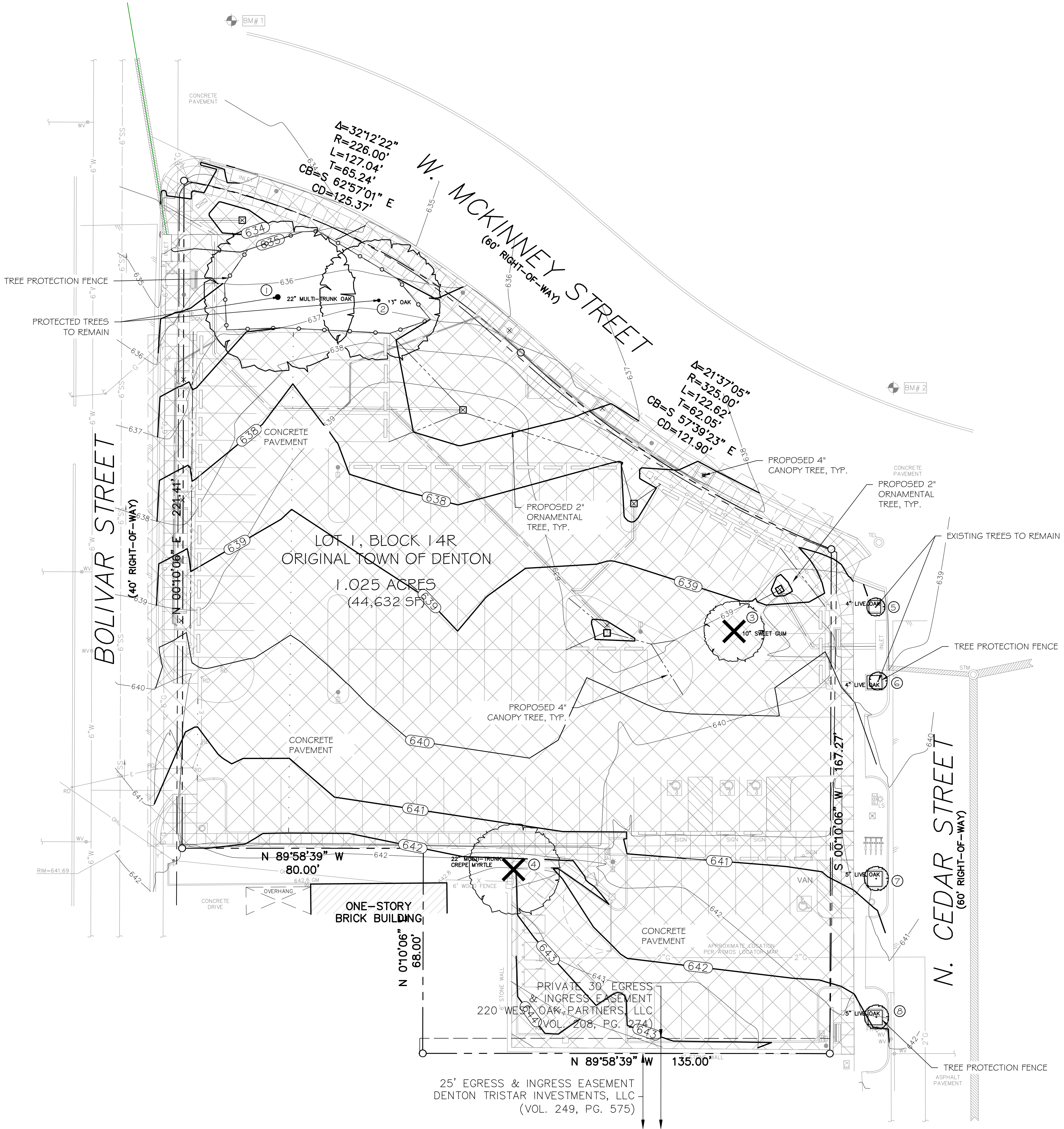
EXHIBIT M3-PLANTING DETAILS				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY CRR	CHECKED BY NGN	SCALE AS SHOWN	DATE JUNE 2017	NO. EX-M3

OLD CENTRAL PARKING LOT

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 NICHOLAS NELSON



VICINITY MAP
(NOT TO SCALE)



LEGEND

- B • BOLLARD
 - CV CLEANOUT
 - EV ELECTRIC VAULT
 - FH FIRE HYDRANT
 - FP FLAG POLE
 - FL FLOOD LIGHT
 - GM GAS METER
 - GT GREASE TRAP
 - LS LIGHT STANDARD
 - PE PULL BOX ELECTRIC
 - PF POWER POLE
 - SGN TRAFFIC SIGN
 - SM SAN. SEWER MANHOLE
 - SSM STORM SEWER MANHOLE
 - TM TELEPHONE MANHOLE
 - WM WATER METER
 - WV WATER VALVE
 - JD PAINT MARK RED
 - Y PAINT MARK YELLOW
- APPROXIMATE RIGHT-OF-WAY LINE
 - - - FENCE
 - OVERHEAD UTILITY LINE
 - UNDERGROUND ELECTRIC LINE
 - UNDERGROUND GAS LINE
 - STORM DRAIN LINE
 - WATER LINE
 - SANITARY SEWER LINE
 - EXIST. CONTOUR
 - EXIST. SPOT ELEV.
 - EXIST. TOP OF CURB ELEV.
 - EXIST. GUTTER ELEV.
 - EXIST. TOP OF STEP ELEV.
 - EXIST. BOTTOM OF STEP ELEV.
 - EXIST. TOP OF VALVE ELEV.
 - EXIST. TOP OF NUT ELEV.
 - EXIST. TOP OF WALL ELEV.
 - EXIST. BOTTOM OF WALL ELEV.
- ⊗ EXISTING TREE TO BE REMOVED
 - ⊕ PROTECTED TREE TO REMAIN
 - ⊗ PROPOSED 4" TREE
 - ⊕ PROPOSED 2" TREE
 - ⊗ AREA OF DISTURBANCE
 - ⊕ TREE PROTECTION FENCE

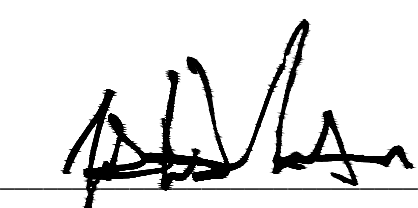
Tree Survey

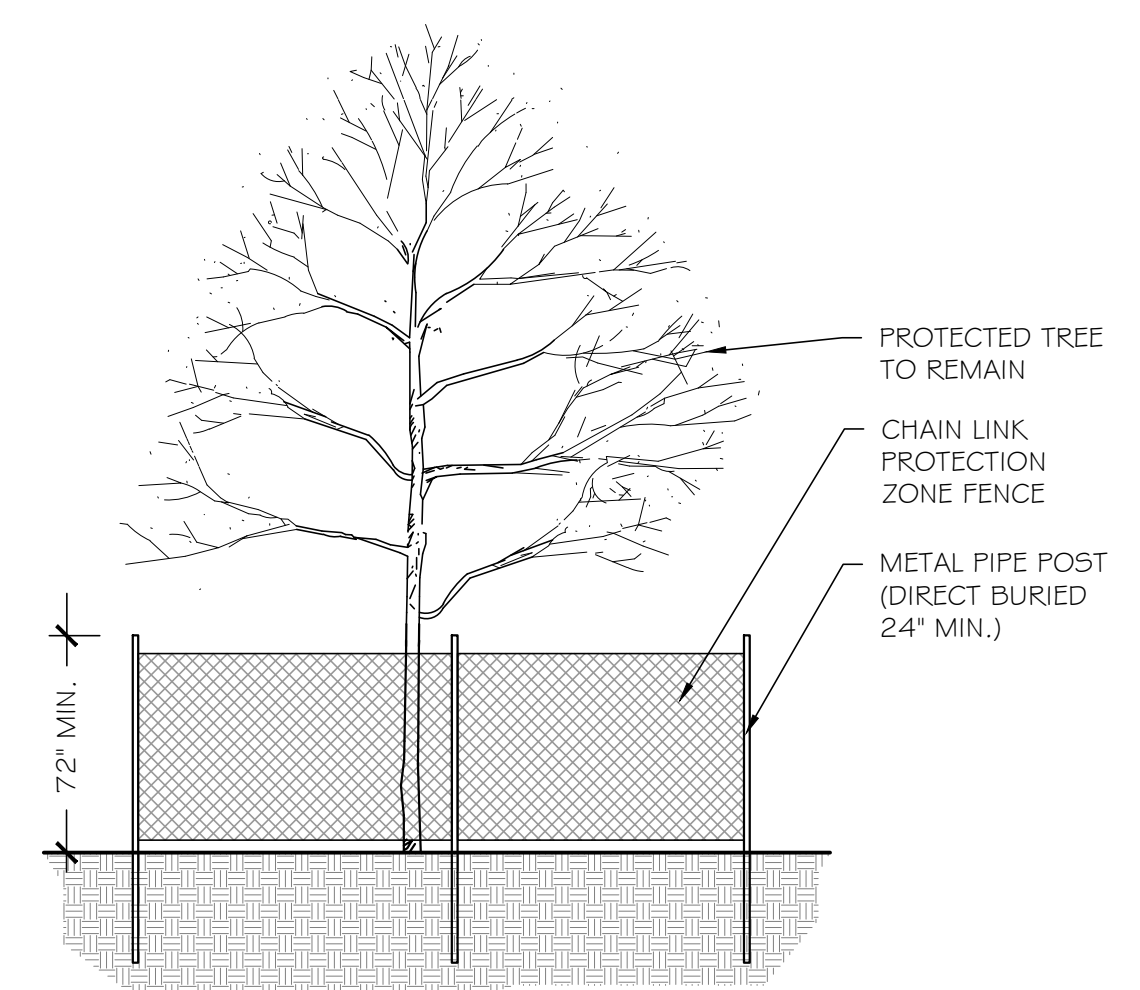
Tree ID #	Tree Category	DBH (in)	Common Name	Condition	Preserve or Remove	Canopy SF
1	Protected	22"	Oak	Good	Preserve	2,082 SF
2	Quality	13"	Oak	Good	Preserve	1,320 SF
3	Quality	10"	Sweet Gum	Good	Remove	332 SF
4	Quality Stand	22"	Soapberry	Good	Remove	740 SF
5	Unprotected	4"	Cedar Elm	Good	Preserve	32 SF
6	Unprotected	4"	Cedar Elm	Good	Preserve	32 SF
7	Unprotected	5"	Cedar Elm	Good	Preserve	32 SF
8	Unprotected	5"	Cedar Elm	Good	Preserve	32 SF

Tree Preservation

Tree Category	Total inches	Total Inches removed	Total Inches Preserved	Total % Preserved	Min. Required Preservation	Mitigation Inches Required	Mitigation Inches Provided
Quality	23"	10"	13"	57%	None	0"	0"
Quality Tree Stand	22"	22"	0"	0%	None	0"	0"
Protected	22"	0"	22"	100%	Mitigate 1:1	0"	0"

I, NICK NELSON, BEING A QUALIFIED PROFESSIONAL AS DEFINED IN THE DENTON DEVELOPMENT CODE, ATTEST THAT THE IDENTIFICATION AND DBH OF TREES IDENTIFIED ON THE SURVEY AND THAT ALL TREES 6" AND GRATER DBH HAVE BEEN SHOWN.

SIGNATURE  DATE 05/10/17



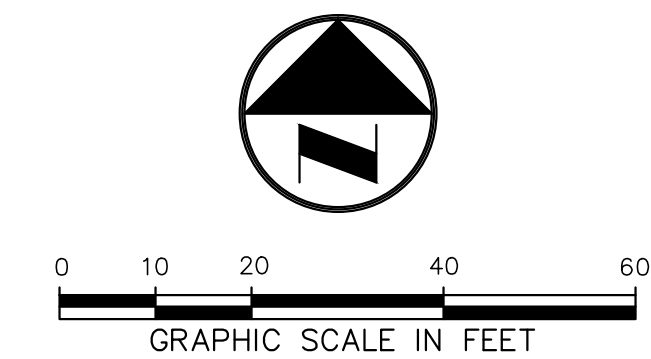
1 TREE PROTECTION FENCE
N.T.S.



EXHIBIT N-TREE SURVEY & PRESERVATION PLAN
OLD CENTRAL PARKING LOT
217 W MCKINNEY ST
DENTON CENTRAL BUSINESS DISTRICT
CITY OF DENTON, DENTON COUNTY, TEXAS

Pacheco Koch 6100 WESTERN PLACE, SUITE 1001
 FORT WORTH, TX 76107 817.412.7155
 TX REG. ENGINEERING FIRM F-14439
 TX REG. SURVEYING FIRM LS-10193824

DRAWN BY CRR CHECKED BY NGN SCALE 1"=20' DATE JUNE 2017 NO. EX-N



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
1401 1402 1404 1408	RAIN BIRD 1804-SAM-PRS-1400 FLOOD FLOOD BUBBLER 4.0" POPUP WITH CHECK VALVE AND PRESSURE REGULATOR
■	RAIN BIRD XC2F-100-PRF MEDIUM FLOW DRIP CONTROL KIT. 1" DV VALVE WITH 1" PRESSURE REGULATING FILTER AT 40PSI, AND MDCF FITTING. 3GPM-15GPM.
[Hatched Box]	AREA TO RECEIVE DRIPLINE RAIN BIRD XFCV-06-18 (18) XFCV ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 3.5 PSI CHECK VALVE. 0.6GPH EMITTERS AT 18.0" O.C. DRIPLINE LATERALS SPACED AT 18.0" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. GREAT FOR ELEVATION CHANGE. SPECIFY XF INSERT FITTINGS.
⊙	TORO 220G-27-04 220G BRASS SERIES VALVE, 1" NPT PRESSURE-REGULATED GLOBE BODY WITH 60 HZ SOLENOID, 20,000 VOLT LIGHTNING RATING
⊗	NIBCO T-113 CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE TO MATCH MAIN LINE
HM	ARAD HYDROMETER 1-1/2"
BF	FEBCO 850 1-1/2" DOUBLE CHECK BACKFLOW PREVENTION
C	MOTOROLA IRRI-NET ACE SERIES CONTROLLER WITH MINI-CLIK RAIN/FREEZE SENSOR
M	WATER METER 1-1/2"
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE.
---	PIPE SLEEVE: PVC CLASS 200 SDR 21 200 PVC, 2 SIZES LARGER THAN PIPE WITHIN
⊙	Valve Callout Valve Number Valve Flow Valve Size

IRRIGATION GENERAL NOTES

- POINT OF CONNECTION IS APPROXIMATE. IRRIGATION CONTRACTOR SHALL COORDINATE WITH THOSE INSTALLING THE IRRIGATION METER TO ASSURE THAT IT IS LOCATED IN THE AREA SHOWN AND IS OF THE SIZE REQUIRED TO SERVICE THE SYSTEM AS DESIGNED.
- IRRIGATION CONTRACTOR IS RESPONSIBLE TO COORDINATE THE APPROPRIATE ELECTRICAL CONNECTION FOR THE SYSTEM CONTROLLER, INCLUDING ANY DATA OR MASTER VALVE WIRING AS REQUIRED.
- IRRIGATION CONTRACTOR IS RESPONSIBLE TO EXAMINE THE PLANS IN THEIR ENTIRETY TO DETERMINE THE APPROXIMATE LOCATION OF EXISTING AND PROPOSED UTILITIES. HE SHALL ALSO CONTACT THE APPROPRIATE AUTHORITY TO MARK UTILITIES ON THE SITE. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UTILITIES ON THE SITE CAUSED BY HIS WORK.
- CONTRACTOR SHALL EXAMINE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR THE IRRIGATION SYSTEM AND ITS INSTALLATION.
- IRRIGATION DRAWINGS ARE SCHEMATIC IN NATURE. AT TIMES MAIN LINES, LATERALS AND VALVES MAY BE SHOWN IN PAVED AREAS OR OUTSIDE THE PROPERTY LINE FOR PLAN CLARITY PURPOSES ONLY. THE CONTRACTOR SHALL STAKE OUT IN THE FIELD ALL PRINCIPLE SYSTEM COMPONENTS FOR APPROVAL BY THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
- THE SYSTEM HAS BEEN DESIGNED TO FUNCTION WITH A MINIMUM DYNAMIC WATER PRESSURE OF 64 PSI AT A MINIMUM RATE OF 1.1 GPM AT THE POINT WHERE THE WATER METER IS CONNECTED. THE CONTRACTOR SHALL TAKE THREE READINGS (ONE AT 7:00 A.M., ONE AT 12:00 P.M., AND ONE AT 7:00 P.M.) ON TWO SEPARATE DAYS AND SUBMIT TO THE OWNERS REPRESENTATIVE FOR VERIFICATION OF PRESSURE PRIOR TO BEGINNING THE WORK.
- ALL TRENCHING WITHIN DRIP LINES OF EXISTING TREES SHALL BE BY HAND TOOLS. SHOULD ROOTS OVER 3" IN DIAMETER BE ENCOUNTERED, THE CONTRACTOR MAY PROVIDE ANOTHER PIPE ROUTE IF LOCATION IS PROVIDED ON THE AS-BUILT DOCUMENTS.

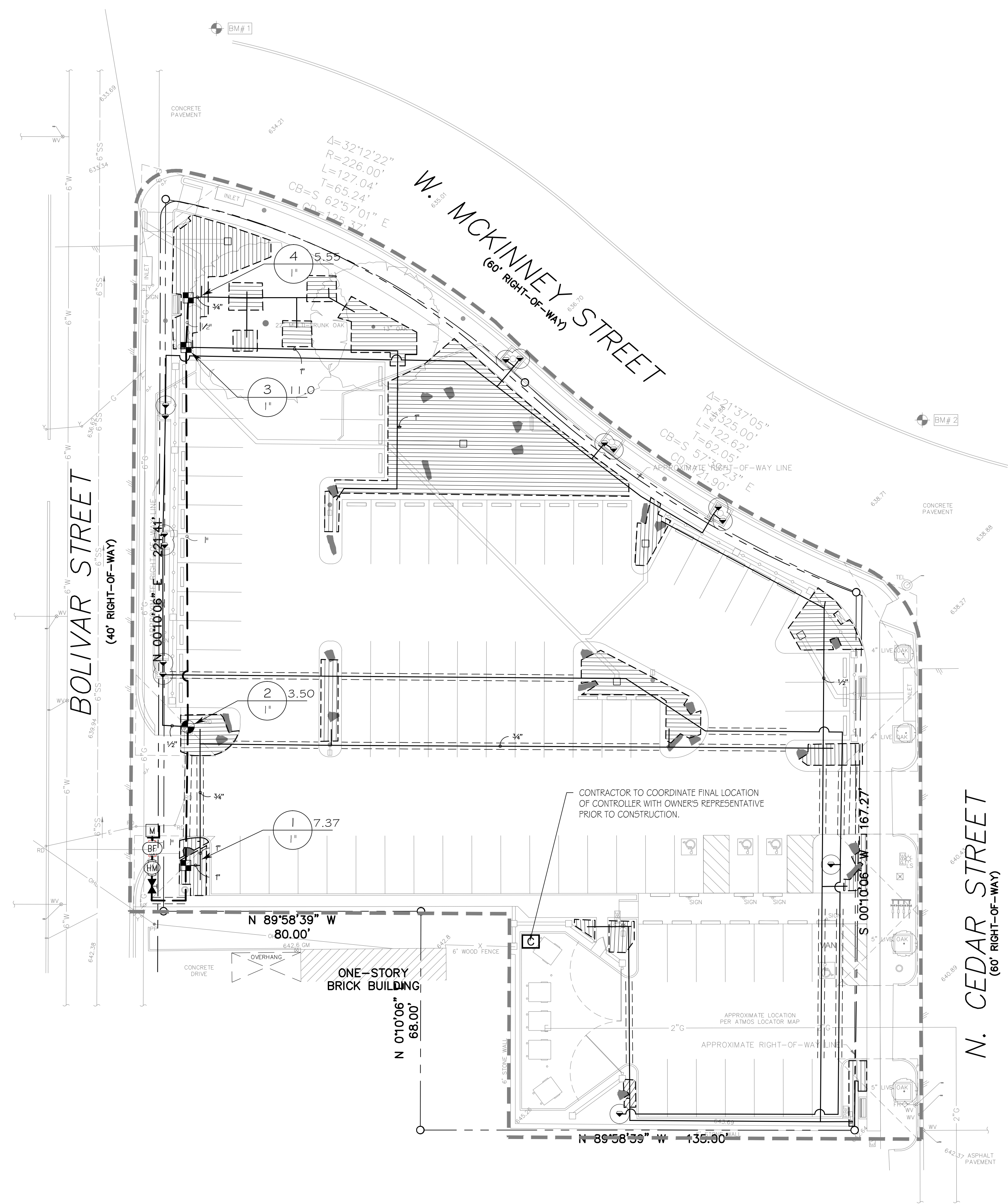
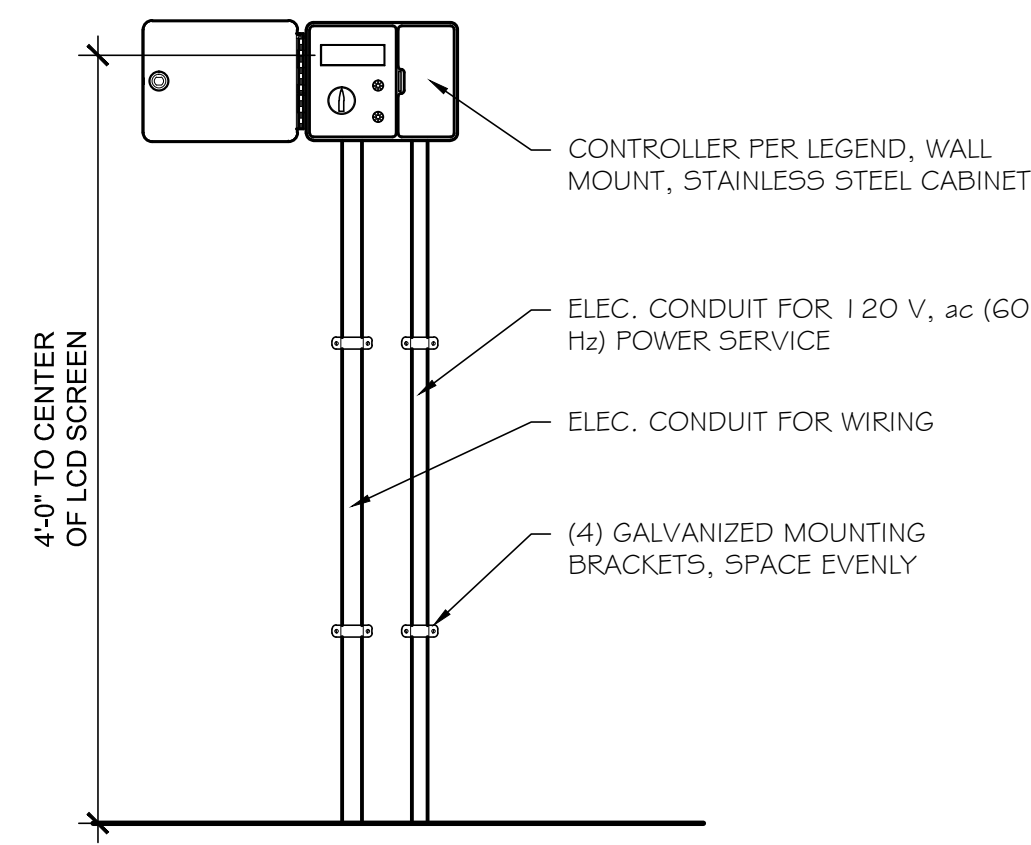


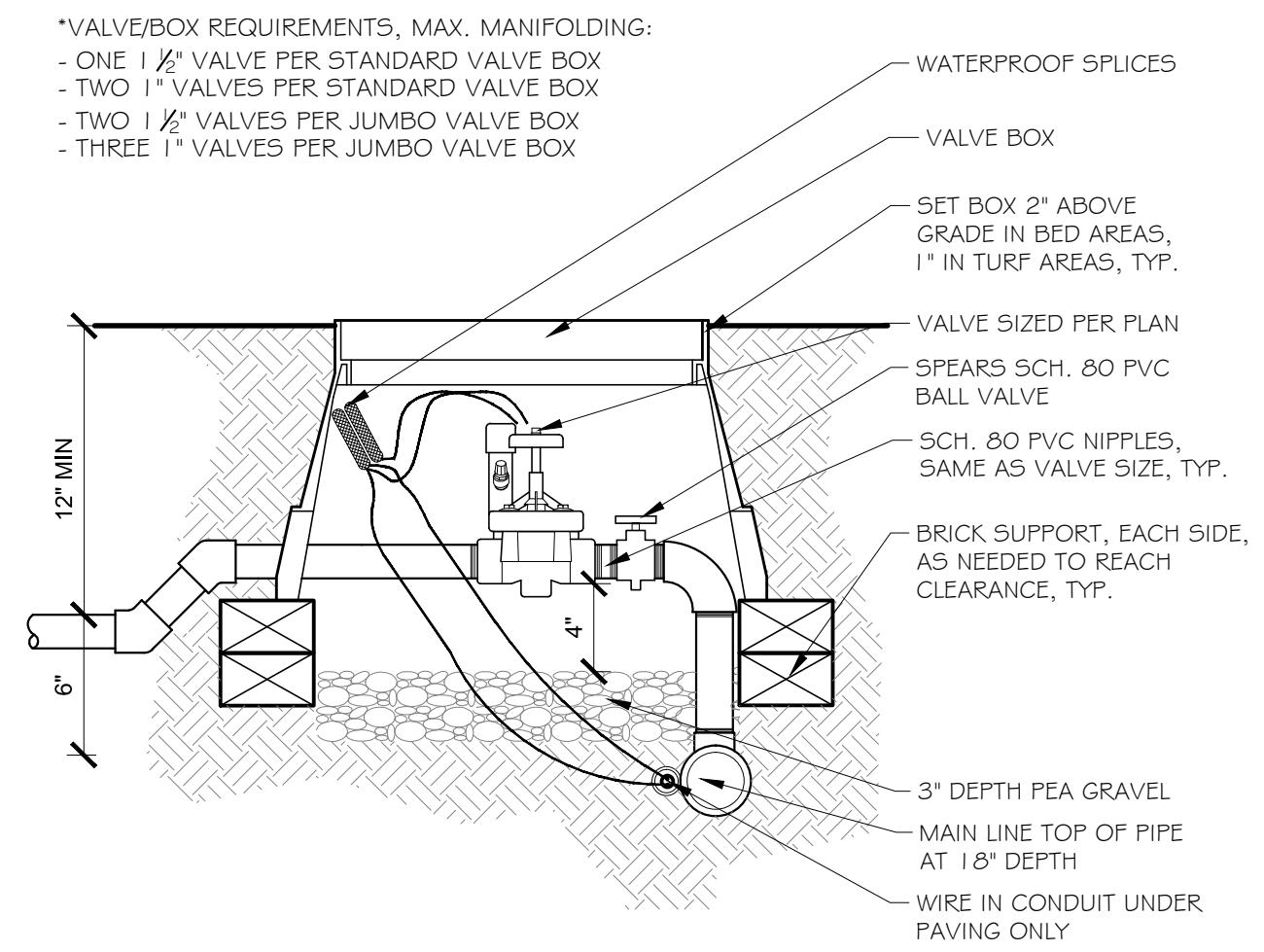
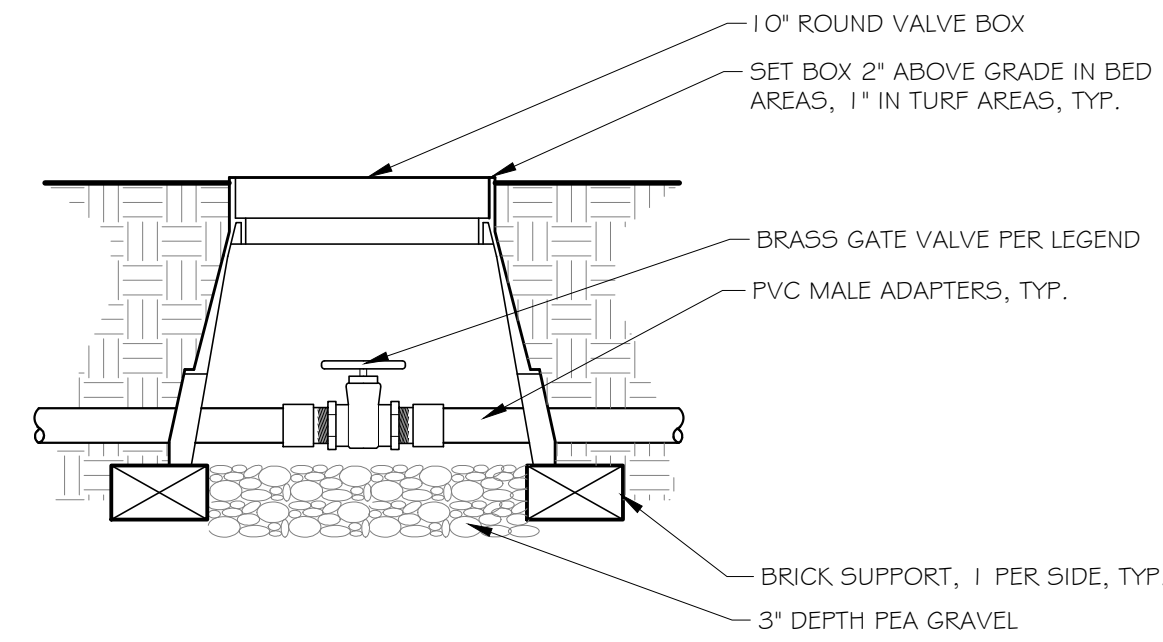
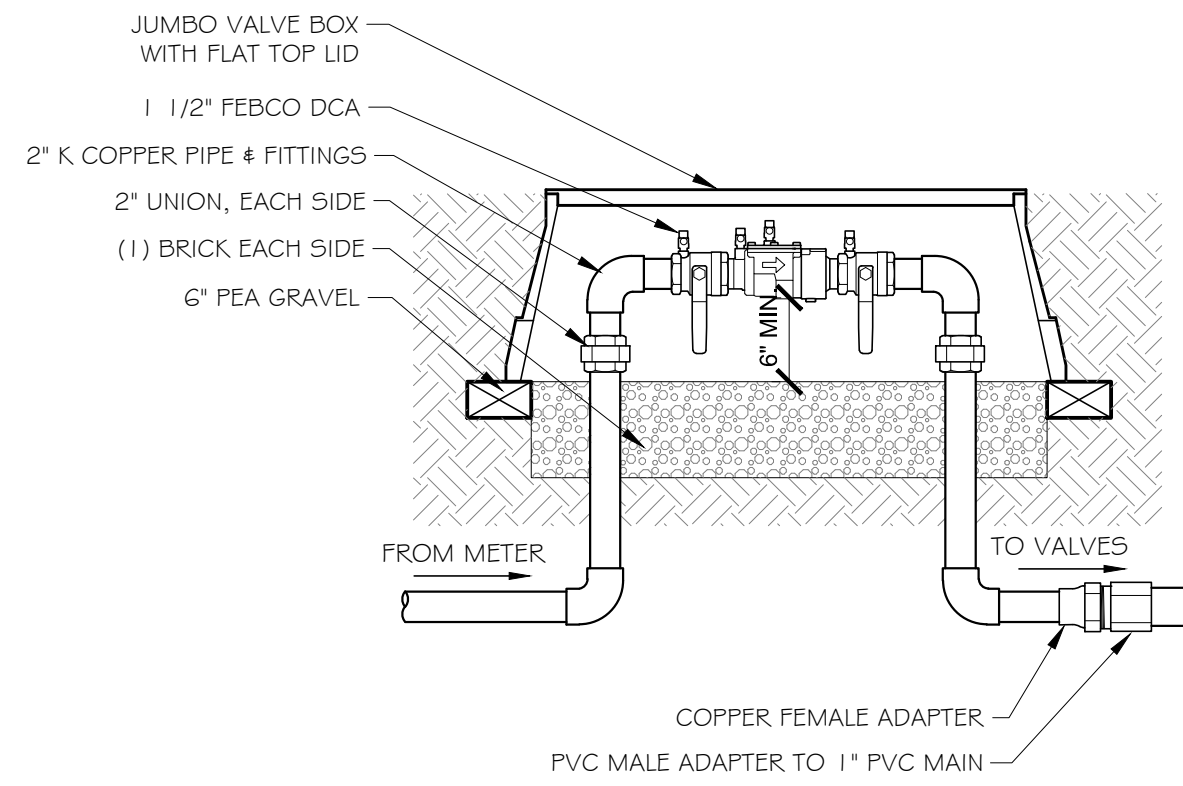
EXHIBIT 1-IRRIGATION PLAN				
OLD CENTRAL PARKING LOT				
217 W MCKINNEY ST				
DENTON CENTRAL BUSINESS DISTRICT				
CITY OF DENTON, DENTON COUNTY, TEXAS				
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824		
DRAWN BY CRR	CHECKED BY NGN	SCALE 1"=20'	DATE JUNE 2017	NO. EX-1

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 4...DWG...3778-16.157...LANDSCAPE_C3D_2015\3778-16.157...

OLD CENTRAL PARKING LOT



NOTE: CONTRACTOR SHALL INSTALL Y STRAINER PER TCE REQUIREMENTS IT DCA

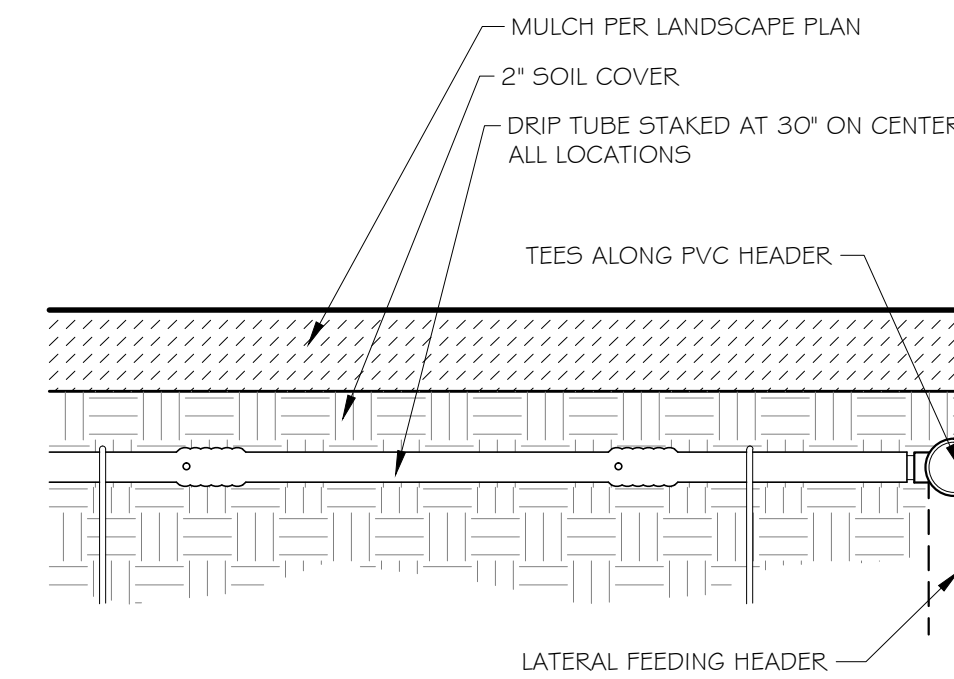
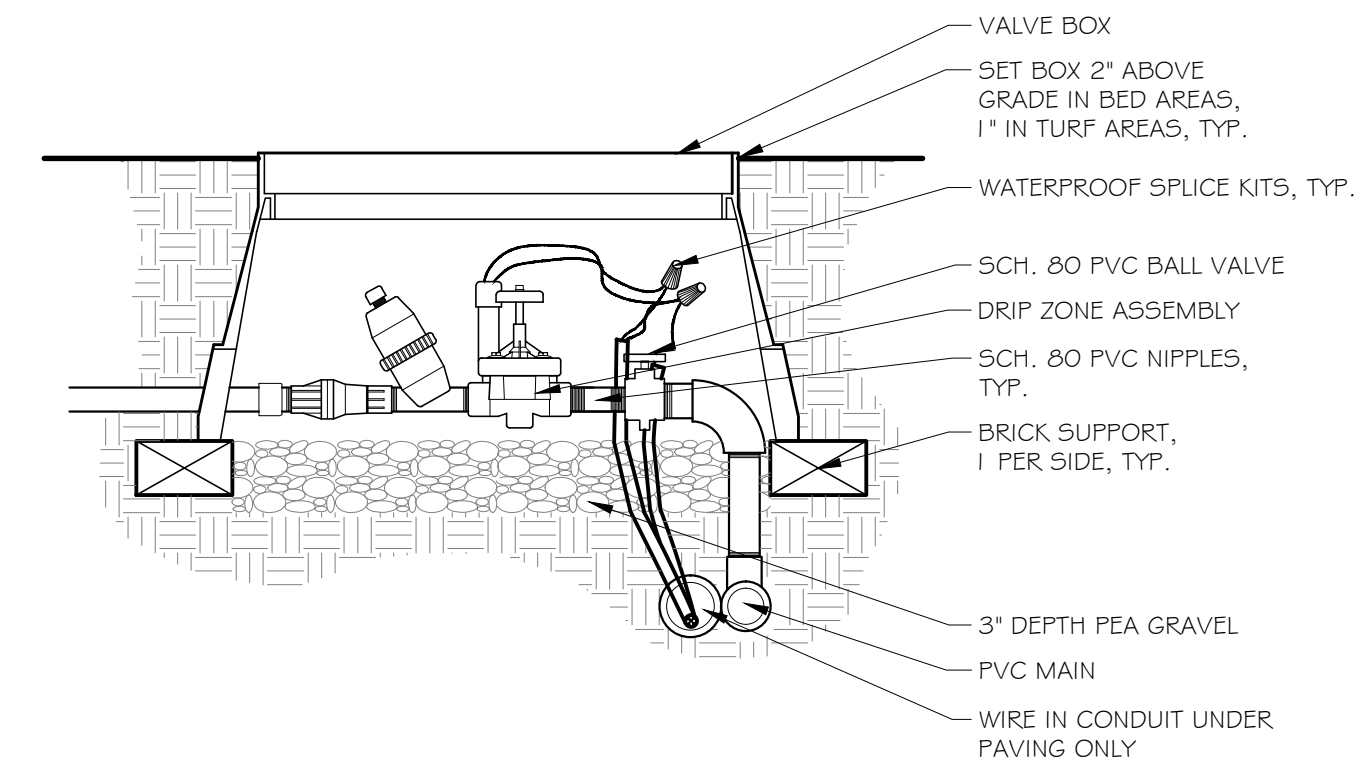
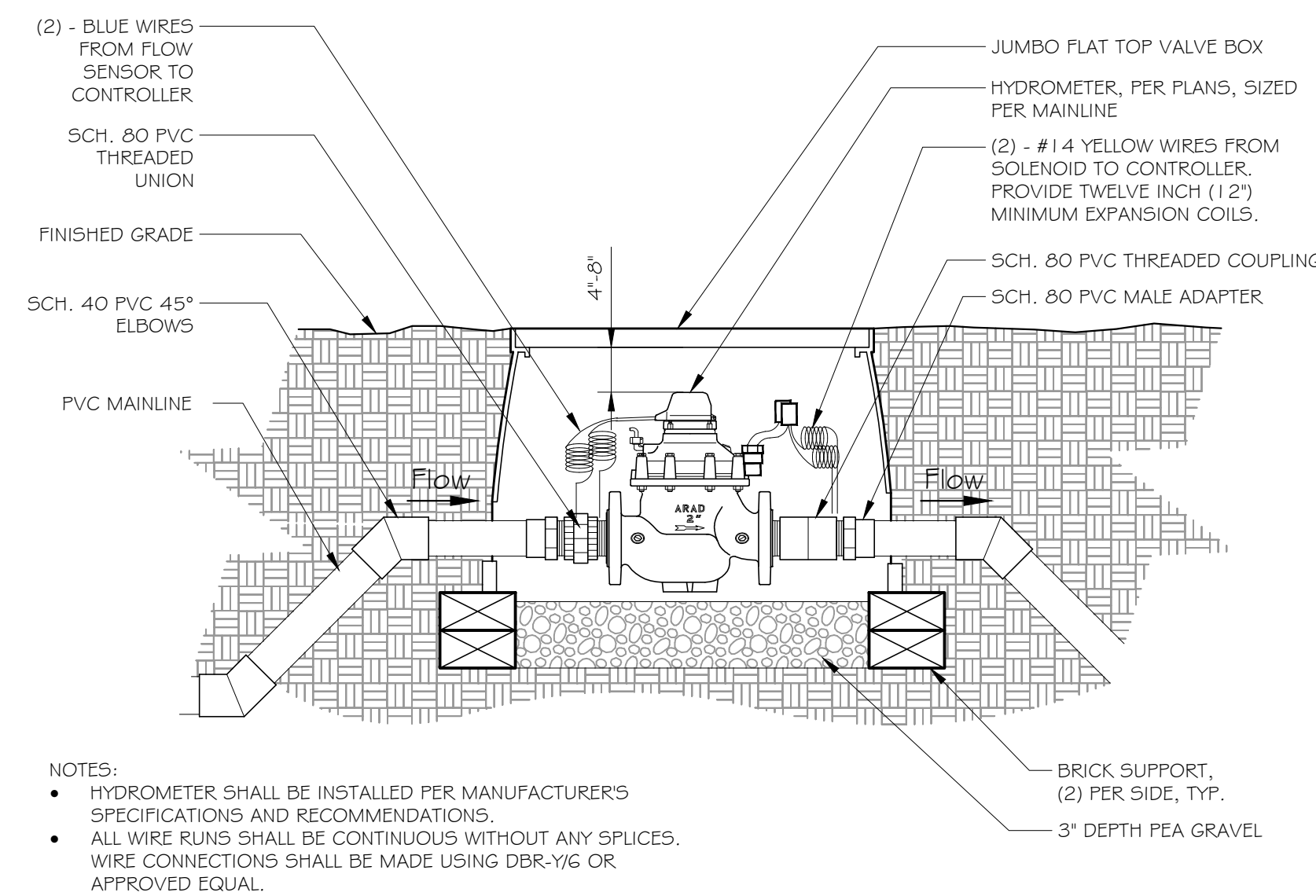


1 IRRIGATION CONTROLLER - WALL MOUNT

2 DOUBLE CHECK ASSEMBLY

3 BRASS GATE (ISOLATION) VALVE

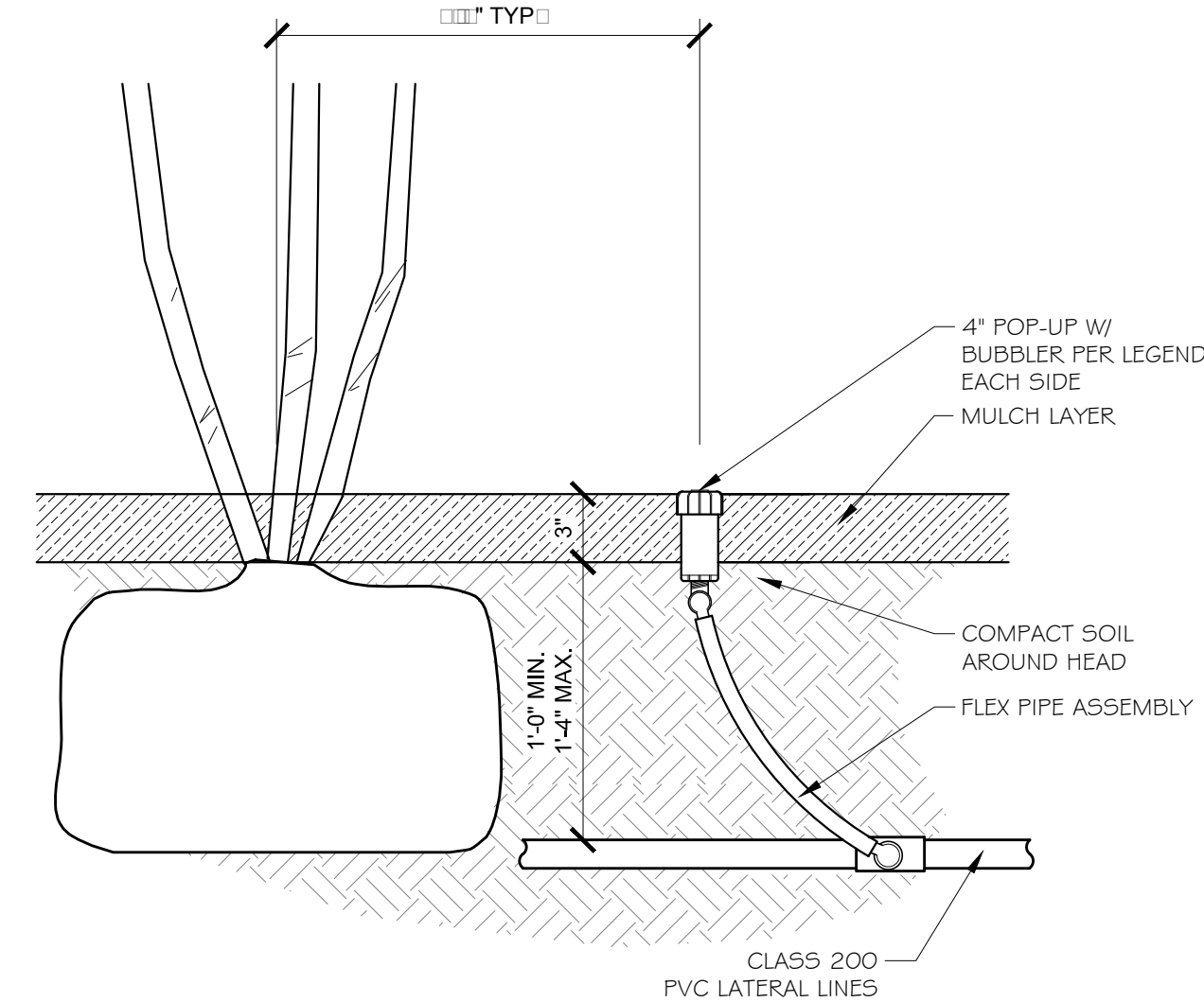
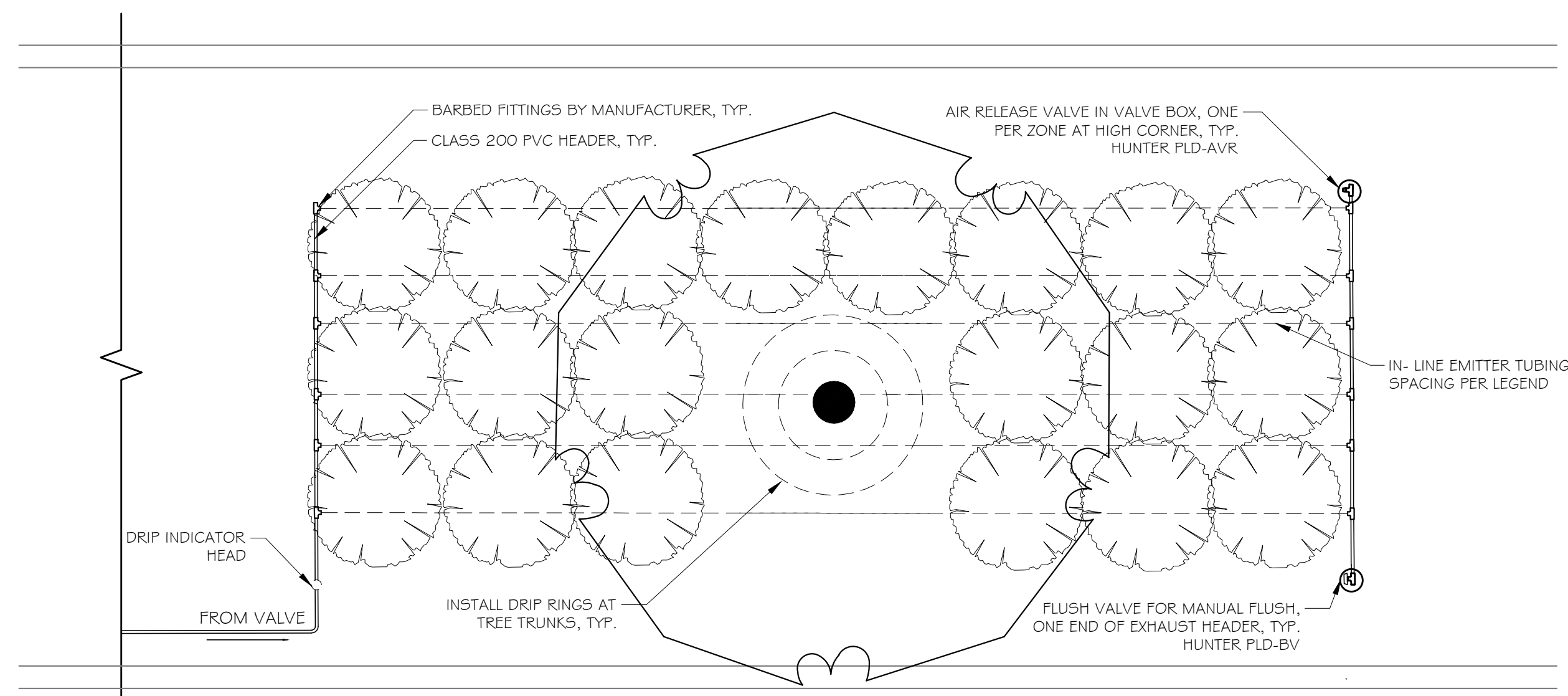
4 AUTOMATIC SYSTEM VALVE



5 HYDROMETER

6 DRIP ZONE VALVE ASSEMBLY-AT GRADE

7 DRIP TUBE INSTALLATION - AT GRADE



8 DRIP ZONE TYPICAL ENLARGEMENT

9 BUBBLER HEAD

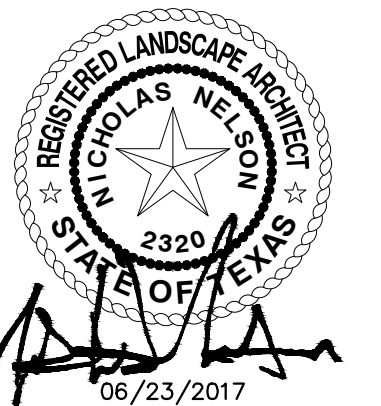


EXHIBIT 2-IRRIGATION DETAILS			
OLD CENTRAL PARKING LOT			
217 W MCKINNEY ST			
DENTON CENTRAL BUSINESS DISTRICT			
CITY OF DENTON, DENTON COUNTY, TEXAS			
Pacheco Koch		6100 WESTERN PLACE, SUITE 1001 FORT WORTH, TX 76107 817.412.7155 TX REG. ENGINEERING FIRM F-14439 TX REG. SURVEYING FIRM LS-10193824	
CRR	NGN	JUNE 2017	EX-2

OLD CENTRAL PARKING LOT

CROWZIE 06/23/17 8:23 AM 04-DWG-370-3778-16 157.DWG\LANDSCAPE_C3D_2015\3778-16.157 -