



**FY20 Sidewalks**  
Contract Number: T-20-006  
*Chattanooga Department of Transportation*

**Answers from Questions Received via Email**

1. Request for full size plan set
  - a. See attached for full size plan set which includes the following updated sheets
    - i. Revisions to C-4, L-1, and L-2 of the Moss-Wilcox Site. Tree protection has been updated per LDO comments.
2. Request for 2 week extension to Bid Date
  - a. The request will be granted as follows:
    - i. RFI's due- July 7<sup>th</sup>, 2020 at 4:00PM
    - ii. Addenda Published- July 14<sup>th</sup>, 2020 at 4:00PM
    - iii. Bid Opening- July 21<sup>st</sup>, 2020 at 2:00PM, location unchanged

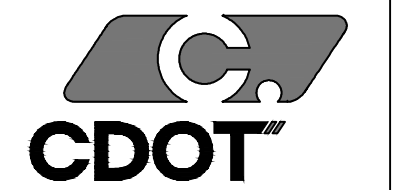
**Attachments**

1. Full size plan set with LDO revisions
2. Revised bid tab
  - a. Items of note include revision to MISC-D, duplicate numbering of MISC-E changed to MISC-E1, addition of MISC-G

# BROAD STREET & 37TH STREET INTERSECTION IMPROVEMENTS



1250 MARKET STREET, SUITE 3030  
CHATTANOOGA, TENNESSEE 37402  
423.643.5950

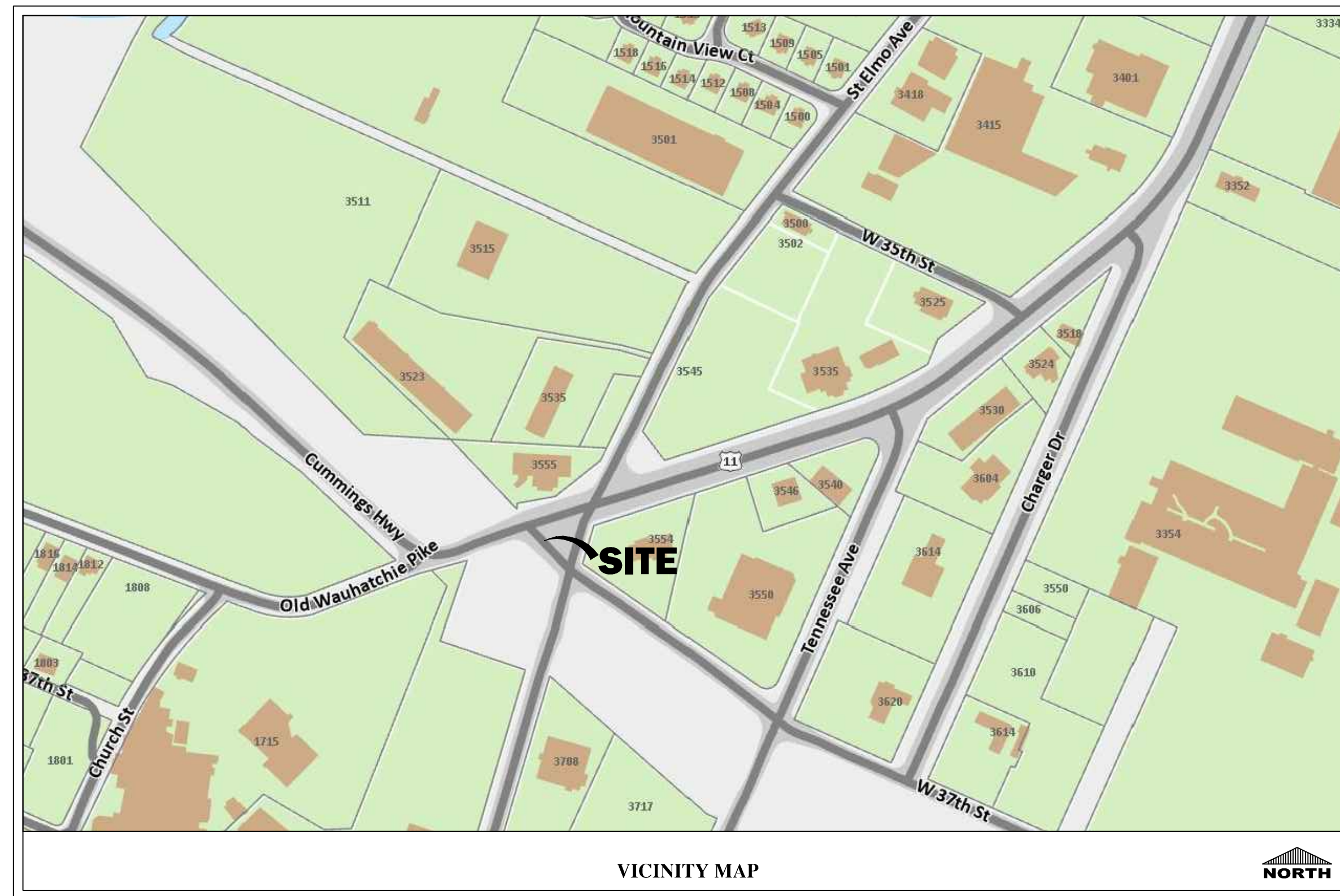


ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

BROAD STREET & 37TH STREET  
INTERSECTION IMPROVEMENTS

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

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**MAYOR**  
**ANDY BERKE**

**CITY COUNCIL**

- DISTRICT 1 - CHIP HENDERSON
- DISTRICT 2 - JERRY MITCHELL, CHAIRPERSON
- DISTRICT 3 - KEN SMITH, VICE-CHAIRPERSON
- DISTRICT 4 - DARRIN LEDFORD
- DISTRICT 5 - RUSSELL GILBERT
- DISTRICT 6 - CAROL B. BERZ
- DISTRICT 7 - ERSKINE OGLESBY JR
- DISTRICT 8 - ANTHONY BYRD
- DISTRICT 9 - DEMETRUS COONROD

Mark D. Heinzer  
Digitally signed by Mark D. Heinzer  
 DN: cn=Mark D. Heinzer, ou=City of Chattanooga,  
 ou,email=mheinzer@chattanooga.gov, c=US  
 Date: 2020.05.04 15:54:26 -0400

MARK D. HEINZER, P.E. DATE  
 CITY TRANSPORTATION ENGINEER  
 STATE LICENSE NO. 114738

TITLE

DATE: 5/4/2020  
 DRAWN: GMH  
 CHECKED: CHAT

REVISIONS

1
2
3
4
5

Total Disturbed Area: \_\_\_\_\_ 0.1 ± acres

C-0

TOPOGRAPHIC SURVEY COMPLETED BY: OTHERS/UNKNOWN  
 DATE: UNKNOWN

BOUNDARY INFORMATION: CHATTANOOGA/H.C. GIS

**GENERAL NOTES**

**GRADING AND EXCAVATION**

- 1. ALL UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE PROPER AGENCIES BEFORE BEGINNING CONSTRUCTION. UNDERGROUND UTILITIES ARE NOT FIELD LOCATED NOR ARE ALL PURPORTED TO BE SHOWN. INFORMATION SHOWN SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR TO CONTACT ALL UTILITY COMPANIES TO HAVE UTILITIES FIELD LOCATED AND VERIFIED BEFORE EXCAVATION OR DEMOLITION WORK BEGINS.
2. THE CONTRACTOR SHALL PERFORM ALL NECESSARY STRIPPING OF EXISTING TOPSOIL ON THE JOBSITE.
3. REMOVE AND REPLACE UNSUITABLE AREAS WITH SUITABLE MATERIAL. FILL MATERIAL SHALL BE FREE OF ORGANIC, AND OTHER DELETERIOUS MATERIALS.
4. ALL FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS OF NO MORE THAN 8 INCHES AND COMPACTED TO 98 PERCENT OF THE STANDARD PROCTOR DENSITY (ASTM D698).
5. WHEN SPECIFIED GRADING REQUIREMENTS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL GRADE ALL AREAS WITHIN THE LIMITS OF CONSTRUCTION, OR OTHERWISE DISTURBED BY CONSTRUCTION, TO DRAIN AND TO MATCH THE EXISTING, ADJACENT GROUND.
6. ON THE PROJECT, NEWLY GRADED, EARTH AREAS NOT TO BE PAVED, RIP-RAPPED, OR STABILIZED, SHALL BE SEEDED IN ACCORDANCE WITH THE CITY SPECIFICATIONS. PRIOR TO SEEDING, A THREE-INCH (3") LAYER OF TOPSOIL SHALL BE PLACED ON THESE AREAS IN ACCORDANCE WITH SAID SPECIFICATIONS.
7. EXCAVATION ADJACENT TO EXISTING PAVEMENT SHALL BE MADE TO A SAW CUT TO GET A NEAT LINE.

**EROSION/POLLUTION CONTROL**

- 1. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS BEGIN. CLEARING AND GRUBBING SHALL BE HELD TO A MINIMUM WIDTH NECESSARY TO ACCOMMODATE THE REQUIRED GRADING. EMBANKMENTS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINIMIZE EROSION. SILT FENCE AND/OR SILT SOCKS SHALL BE USED ALONG THE TOE OF FILL SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SILT-LADEN RUNOFF MAY ENTER A STREAM OR ADJACENT PROPERTY.
2. ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT'S ENTERING STREAMS. NO EXCAVATED MATERIAL SHALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION, APPROVED BY THE ENGINEER, ABOVE THE NORMAL HIGH WATER ELEVATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL EROSION CONTROL PROVISIONS AS SET FORTH IN THE BEST MANAGEMENT PRACTICES MANUAL AVAILABLE FROM THE STORMWATER MANAGEMENT DIVISION OF THE CITY OF CHATTANOOGA DEPARTMENT OF PUBLIC WORKS. REFER TO CITY ORDINANCE 12900.
4. WITHIN THE UNIT PRICE FOR EACH EROSION CONTROL ITEM, THE CONTRACTOR IS EXPECTED TO MAINTAIN THE EROSION CONTROL MEASURES THROUGHOUT THE LENGTH OF THE CONTRACT AS REQUIRED.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND WATER CONTROL MEASURES (SUCH AS BERMS, SEDIMENT BASINS, SLOPE DRAINS, HAY BALES, AND SILT FENCES) AS DIRECTED BY THE ENGINEER. THESE TEMPORARY MEASURES SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL FEATURES TO ASSURE ECONOMICAL, EFFECTIVE, AND CONTINUOUS EROSION CONTROL THROUGHOUT THE PROJECT.
6. NO EARTH OR OTHER ERODIBLE MATERIAL SHALL BE USED TO DIVERT STREAM FLOW OR TO CONSTRUCT COFFERDAMS. CLEAN CUT ROCK WITH FINES MAY BE USED, OR, IN THE CASE OF COFFERDAMS, STEEL SHEETING IS PERMISSIBLE. WATER OR SEDIMENT ISOLATED BY COFFERDAMS OR DISPLACED FOOTINGS SHALL BE PUMPED INTO SEDIMENT BASINS ON THE BANK OF THE STREAM. ALL COSTS OF TEMPORARY POLLUTION CONTROL SHALL BE INCLUDED IN THE LUMP SUM BID.

**DRAINAGE**

- 1. COSTS OF EXCAVATION FOR CURB INLETS, MANHOLES, PIPE CULVERTS, AND OTHER STRUCTURES SHALL BE INCLUDED IN THE UNIT PRICE COST OF THE ITEM.
2. THE CONTRACTOR IS REQUIRED TO CONNECT ALL EXISTING STORM DRAINAGE PIPE TO PROPOSED DRAINAGE STRUCTURES AS REQUIRED. THE COST IS TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION.
3. EXISTING DOWN SPOUT DRAINAGE THAT IS CONNECTED TO THE PRESENT STORM SEWER SYSTEM SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM. THE COST IS TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL BEDDING & BACKFILL FOR STORM SEWERS WITH MATERIAL IN ACCORDANCE WITH THE CITY OF CHATTANOOGA'S STANDARD DRAWINGS AND SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
5. REMOVAL OF EXISTING DRAINAGE STRUCTURES IN THIS CONTRACT SHALL BE CONSIDERED INCIDENTAL, THEREFORE NO SEPARATE PAYMENT SHALL BE MADE UNLESS STATED OTHERWISE. COMPENSATION SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS UNLESS STATED OTHERWISE.
6. THE COST OF CONNECTING THE PROPOSED STORM SEWERS TO THE PROPOSED STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER PIPE, WHETHER CONNECTION IS TO A CATCH BASIN, CURB INLET, OR MANHOLE, OR TO ANOTHER STORM SEWER PIPE.

**UTILITIES**

- 1. LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. IT IS POSSIBLE THAT SOME EXISTING FACILITIES ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITY FACILITIES LOCATED AND MARKED PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. UTILITY OWNERS ARE TO RESET, RELAY, OR ADJUST, AT THEIR OWN EXPENSE, POWER AND TELEPHONE LINES, POWER POLES, WATER AND GAS LINES, AND ALL OTHER FACILITIES INCLUDING METERS, VALVES, PITS, ETC., CONFLICTING WITH THE PROPOSED IMPROVEMENTS WITHIN THE EXISTING RIGHT-OF-WAY. ALL RELOCATED POLES, METERS, VALVES, ETC., ARE TO BE LOCATED AS NECESSARY AND AS DIRECTED BY THE OWNER.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING HIS BID SO THAT HE MAY DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS SHALL HAVE UPON THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT SHALL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY UTILITY ADJUSTMENTS.

- 4. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY CUSTOMERS AT LEAST 24 HOURS BEFORE INTERRUPTING THE CUSTOMERS' SERVICE. WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 4 HOURS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES, AND COMPENSATION, THEREFORE, SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS.
5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FROM FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
6. ANY EXISTING STORM OR SANITARY SEWER DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS RAPIDLY AS POSSIBLE AND THEN BE INSPECTED BY ITS RESPECTIVE OWNER. THE ENGINEER SHALL DETERMINE IF DAMAGE IS THE RESULT OF THE CONTRACTOR'S NEGLIGENCE OR OF AN UNAVOIDABLE CAUSE.
7. THE COST OF EXTENDING ALL 4" DIAMETER PVC SEWER LATERALS SHALL BE FOR COMPLETE, IN-PLACE WORK AND SHALL INCLUDE ALL INCIDENTAL COSTS. AREAS WHERE THE EXTENSIONS ARE TO OCCUR SHALL BE DETERMINED BY THE ENGINEER.
8. ALL CUTS AND FILLS ARE TO BE IN PLACE AND COMPACTED PRIOR TO INSTALLATION OF SANITARY AND STORM SEWERS AND APPURTENANCES.
9. ALL SANITARY SEWER CONSTRUCTION MUST BE DONE BY A LICENSED MUNICIPAL UTILITY CONTRACTOR- CLASSIFICATION MU.
10. TRANSITION JOINTS ON SANITARY SEWER PIPES OF DIFFERENT MATERIALS MUST BE APPROVED BY THE JURISDICTIONAL ENGINEER AND CONSTRUCTION MUST BE DONE WITH APPROVED FITTINGS AND/OR ADAPTERS.

**TRAFFIC**

- 1. UPON NOTICE OF AWARD OF A CITY CONTRACT, THE CONTRACTOR SHALL SUBMIT, WITHIN TEN (10) DAYS, A CONSTRUCTION SCHEDULE. THE CITY OF CHATTANOOGA'S TRANSPORTATION DEPARTMENT SHALL PROVIDE A WORK ZONE TRAFFIC CONTROL PLAN WITHIN FIVE (7) DAYS THEREAFTER.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN TRAFFIC AND PROVIDE TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL TRAFFIC SIGNS AND MARKINGS AS REQUIRED BY THE MUTCD AND THE CITY OF CHATTANOOGA'S DEPARTMENT OF TRANSPORTATION.
3. PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE PLACED BY CONTRACTOR.
4. THE CONTRACTOR SHALL MAINTAIN ALL BUSINESS, VEHICULAR, AND PEDESTRIAN ENTRANCES.
5. THE CONTRACTOR SHALL PROVIDE A PEDESTRIAN WALKWAY THAT SEPARATES AND INSULATES THE PEDESTRIAN FROM THE CONSTRUCTION SITE AND VEHICULAR TRAFFIC. WHERE POSSIBLE, THE WALKWAY SHALL BE ON THE SAME SIDE OF THE STREET AS THE CONSTRUCTION SITE. WHERE OVERHEAD DANGER EXISTS, THE CONTRACTOR SHALL PROVIDE A COVERED WALKWAY.
6. PRIOR TO CLOSING THE ROAD TO THROUGH TRAFFIC, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED LOCAL AGENCIES ABOUT THE PROPOSED ROAD CLOSURE. THOSE TO BE CONTACTED SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: FIRE DEPARTMENT, POLICE DEPARTMENT, SHERIFF'S DEPARTMENT, POST OFFICE, CITY TRANSPORTATION ENGINEER'S OFFICE, AND THE BOARD OF EDUCATION.
7. THE CONTRACTOR, WHEN DIRECTED BY THE CITY TRANSPORTATION DEPARTMENT, SHALL MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON THE PREDOMINATE TRAVEL PATH.

**DRIVEWAYS**

- 1. WHEN A CONCRETE CURB OR CURB AND GUTTER IS BUILT, THE CONTRACTOR SHALL INSTALL A DROP CURB FOR EACH LOT AT A LOCATION CHOSEN BY THE ENGINEER. A DOWNTOWN LOT SHALL BE EXEMPT WHEN A BUILDING EXISTS ACROSS THE PROPERTY FRONTAGE OR IS PLANNED TO BE CONSTRUCTED ACROSS THE FRONTAGE.
2. EXISTING, PAVED DRIVEWAYS SHALL BE REPLACED IN KIND TO THE TIE-IN POINT. EACH EXISTING, UNPAVED DRIVEWAY SHALL RECEIVE A FIVE FEET CONCRETE PAD BEHIND, AND ADJACENT TO, THE DRIVEWAY APRON OR BACK CURB LINE AS APPLICABLE AND THEN BE REPLACED IN KIND FROM THERE TO THE TIE-IN POINT.

**MISCELLANEOUS**

- 1. THE ENGINEER SHALL HAVE THE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION.
2. THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHOULD SATISFY HIMSELF BY ON-SITE INSPECTIONS, CORE DRILLINGS, OR OTHER METHODS, OF THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED. THE RISK OF ENCOUNTERING AND CORRECTING UNFAVORABLE SUBSURFACE CONDITIONS SHALL BE BORNE SOLELY BY THE CONTRACTOR.

- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL FIELD LAYOUTS, APPROVED BY THE ENGINEER, FOR THE ROADWAY, DRAINAGE STRUCTURES, AND OTHER FACILITIES. ALL FINISHED GRADE ELEVATIONS AND LAYOUT SHALL BE SET USING A HUB AND TACK AND/OR PK NAILS, AS DETERMINED BY FIELD CONDITIONS.
4. SHOULD AN EXISTING BENCH MARK BE LOCATED ON A POWER POLE, TELEPHONE POLE, ETC., THAT IS TO BE RELOCATED DURING CONSTRUCTION, THE BENCH MARK SHALL BE RELOCATED BY A CITY CREW PRIOR TO CONSTRUCTION.
5. ALL SALVAGEABLE MATERIAL FROM EXISTING PIPING AND STRUCTURES SHALL REMAIN PROPERTY OF THE CITY OF CHATTANOOGA. SAID MATERIAL SHALL BE CLEANED AND THEN DELIVERED TO THE OWNER AT A LOCATION DESIGNATED BY THE ENGINEER.
6. ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER OR THROUGH TESTING, IS TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL. PAYMENT SHALL BE BASED ON A CUBIC YARD QUANTITY.
7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AT HIS OWN EXPENSE ANY AND ALL DAMAGES THAT MAY OCCUR OUTSIDE THE LIMITS OF THIS PROJECT AS A RESULT OF CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXISTING CURB & COMBINED CURB AND GUTTERS WHERE APPLICABLE.
9. ALL EXISTING DRAINAGE STRUCTURES, ABANDONED UTILITY FACILITIES, STRUCTURE FOUNDATIONS, AND SIMILAR ITEMS WITHIN THE LIMITS OF PAVING SHALL BE REMOVED TO A MINIMUM OF TWO FEET BELOW THE TOP OF SUBGRADE, AND REMAINING VOIDS SHALL BE FILLED WITH APPROPRIATE BACKFILL THEN COMPACTED IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF SAID ITEMS OR FOR FURNISHING AND COMPACTING CRUSHED STONE BACKFILL, AND COMPENSATION, THEREFORE, SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS.
10. ALL TREES LARGER THAN 3 INCHES IN DIAMETER NEEDING TO BE REMOVED PRIOR TO THE COMPLETION OF THIS CONTRACT, SHALL BE CUT IN 3 FOOT LENGTHS AND STACKED ON THE ADJACENT PROPERTY IF THAT PROPERTY'S OWNER WISHES TO USE THE WOOD.

- 11. THE COST OF HANDICAP RAMPS SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR, "CONCRETE SIDEWALK (4")", OF THE CITY'S CONTRACT SPECIFICATIONS. COST OF DROP CURBS SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR THE ITEM FOR THE STANDARD CORRELATING STANDARD CURB OF THE CITY'S CONTRACT SPECIFICATIONS.
12. THE OWNER SHALL BE RESPONSIBLE FOR THE PAYMENT FOR TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORDERING APPROPRIATE TESTS AS REQUIRED BY THE INSPECTOR.
13. THE CONTRACTOR SHALL REPLACE IN KIND ANY AND ALL SHRUBS, FENCES, MAILBOXES, ETC., THAT ARE REMOVED OR DAMAGED FROM CONSTRUCTION ACTIVITIES. NO SEPARATE PAYMENT SHALL BE MADE FOR ITEMS THAT WERE REMOVED OR DAMAGED THAT WERE NOT NECESSARY TO DO SO FOR THE CONSTRUCTION.
14. THE CONTRACTOR SHALL NOT BE ALLOWED TO REMOVE ANY FENCE OTHER THAN THAT NECESSARY FOR THE CONSTRUCTION OF THE NEW ROAD OR RELATED APPURTENANCES. ANY FENCE REMOVED IS TO BE REPLACED IN KIND BY THE CONTRACTOR WITH THE COSTS INCLUDED IN THE UNIT PRICE BID FOR, "FENCE RELOCATION" (WHERE APPLICABLE), OF THE CITY'S CONTRACT SPECIFICATIONS.
15. THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS ONE WEEK'S NOTICE PRIOR TO CUTTING FENCES.
16. WHEN REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF THE PROJECT WITHIN THIRTY (30) DAYS AFTER SUBSTANTIAL COMPLETION OF THE WORK. ("SUBSTANTIAL COMPLETION" SHALL BE DEFINED BY THE JURISDICTIONAL ENGINEER.) THE ENGINEER RESERVES THE RIGHT TO WITHHOLD THE RETAINER UNTIL RECEIVING A COMPLETE SET OF SAID DRAWINGS.
17. SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION IN FAVOR OF THE ENGINEER SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY CLARIFICATION OR INTERPRETATION OF GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, IN ADVANCE AND IN WRITING, FROM THE ENGINEER.
18. CONTRACTOR SHALL VERTICALLY PRUNE TREE ROOTS PRIOR TO ANY GRADING OR EXCAVATION WITHIN 50 FEET (15.2M) OF THE LIMIT OF THE CRITICAL ROOT ZONE, ROOT PRUNE ALL EXISTING TREES TO A DEPTH OF 24 INCHES (61CM) BELOW EXISTING GRADE. VERTICAL CUTS SHALL BE MADE WITHIN TWO FEET OF THE LIMIT OF THE GRADING OR EXCAVATION. CONTRACTOR SHALL USE A ROCK SAW, VIBRATORY PLOW, CABLE PULLER, OR SIMILAR MECHANICAL DEVICE OR A SHARPENED SHOVEL, SPADE AND HAND PRUNERS IF DONE MANUALLY. CONTRACTOR SHALL HAVE THE BLADE SHARPENED ON MECHANICAL ROOT PRUNERS BEFORE STARTING THE PROJECT. UPON COMPLETION OF THE CUT, THE CONTRACTOR WILL IMMEDIATELY BACKFILL THE CUT WITH SOIL, AVOIDING ANY AIR POCKETS.

NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SANITARY SEWER & STORM SEWER (INCLUDING INVERTS), ELECTRIC, FIBER, CABLE, ETC. THESE PLANS DO NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES.

811 Know what's below. Call before you dig. UTILITY LOCATE: CONTRACTOR SHALL CALL 811, OR (800) 351-1111, AT LEAST 3 DAYS PRIOR TO EXCAVATING OR SAW CUTTING. CONTRACTOR SHALL ALSO CALL CHATTANOOGA DEPARTMENT OF TRANSPORTATION TRAFFIC OPERATIONS DIVISION AT LEAST 3 BUSINESS DAYS PRIOR TO EXCAVATING OR SAW CUTTING WHEN PERFORMING WORK WITHIN 400' OF A SIGNALIZED INTERSECTION TO LOCATE AND MARK SUBSURFACE TRAFFIC SIGNAL WIRING, LOOPS, AND INFRASTRUCTURE. ANY REPAIR COSTS ASSOCIATED TO TRAFFIC SIGNAL INFRASTRUCTURE DAMAGED DURING CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR.

UTILITY OWNERS table with columns: UTILITY, OWNER, PHONE NO., CONTACT, ADDRESS, CITY, STATE, ZIP CODE. Rows include Traffic Signal, Telephone, Telecom, Water, Sewage, Gas, Power & Telecom, Cable TV, Railroad (TVRM), Stormwater.

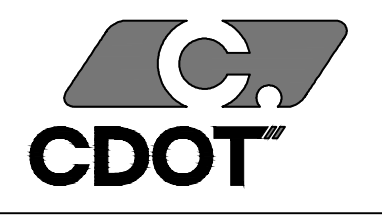
- 19. ALL CONCRETE SHALL BE CLASS "A" (4,000 P.S.I.) UNLESS OTHERWISE NOTED ON DRAWING OR CITY STANDARD DETAILS. (CLASS "B" CONCRETE SHALL BE 3,000 P.S.I.).
20. THE CONTRACTOR SHALL PROVIDE CUT SHEETS FOR ALL STORMWATER AND/OR SANITARY SEWER INSTALLED PRIOR TO INSTALLATION.

**TRANSPORTATION NOTES**

- 1. ALL CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY SHALL CONFORM TO FEDERAL PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES ("PROWAG"). THE CONTRACTOR AND REGISTERED DESIGN PROFESSIONAL OF RECORD (PE, PLA, OR RA) ARE EXPECTED TO BE FAMILIAR WITH THESE STANDARDS AND PROMPTLY NOTIFY THE CHATTANOOGA DEPARTMENT OF TRANSPORTATION (CDOT) OF ANY ANTICIPATED DEVIATION.
2. CONTRACTOR SHALL REFER TO THE CITY OF CHATTANOOGA STANDARD DETAILS FOR ALL APPLICABLE CONSTRUCTION STANDARDS. THE SD-200 SERIES SHALL BE USED FOR ALL ROADWAY AND DRIVEWAY RELATED DETAILS. THE SD-500 SERIES SHALL BE USED FOR ALL STREETScape STANDARDS. THE SD-700 SERIES SHALL BE USED FOR ALL REPAIR DETAILS. THE CONTRACTOR SHALL NOTIFY THE CITY WHEN ANY DEVIATIONS FROM THESE STANDARDS ARE ANTICIPATED, AND SHALL COORDINATE WITH THE PROJECT'S REGISTERED DESIGN PROFESSIONAL OF RECORD (PE, PLA, OR RA) FOR CHANGES TO BE INCORPORATED ON THE CITY'S PERMIT SET.
3. WHERE APPLICABLE TO THE PROJECT AND NOTED ON PLANS, THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF CHATTANOOGA AND ALL LOCAL UTILITY COMPANIES FOR THE UNDERGROUND RELOCATION OF UTILITY LINES.
4. CONTRACTOR SHALL MATCH EXISTING SIDEWALK AND GUTTER GRADES WHEREVER PROPOSED CONSTRUCTION MEETS EXISTING. CONSTRUCTION OF ALL THESE AND ALL APPLICABLE FACILITIES SHALL STILL COMPLY WITH PROWAG WITH THE EXCEPTION OF THESE BLENDED TRANSITIONS.
5. STREETScape:
A. ALL STREET LIGHTING PROPOSED ON THE PLANS SHALL BE COORDINATED BY THE CONTRACTOR W/ EPB AND SEQUENCED WITH THE PROJECT PHASING. ANY UNRESOLVED LIGHTING WILL DELAY PROJECT CLOSEOUT UNLESS PROVIDED WITH A WRITTEN APPROVAL FROM CDOT. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR MANUFACTURER, POLE STYLE, AND POLE COLOR IF NOT NOTED ON PLANS IN ORDER TO CONFIRM SPECIFICATIONS PRIOR TO ORDERING. CONTACT THE CDOT DESIGN MANAGER (423.643.5919) FOR COORDINATION AND TO SCHEDULE INSPECTION OF STREETScape COMPONENTS PRIOR TO PROJECT CLOSEOUT.
B. CONTRACTOR SHALL HAVE ALL EXISTING PEDESTRIAN LIGHTS WITHIN THE PROJECT'S LIMITS OF WORK REMOVED PRIOR TO CONSTRUCTION AND SALVAGED UNTIL HARDScape IS SUBSTANTIALLY COMPLETE. COORDINATE WITH THE CHATTANOOGA ELECTRIC POWER BOARD (EPB) AT 423.648.1372 PRIOR TO BEGINNING CONSTRUCTION AND TO SCHEDULE REPLACEMENT. ANY COSTS ASSOCIATED WITH PROTECTION AND RELOCATION OF POLES SHALL BE INCURRED BY THE CONTRACTOR.
C. CONTRACTOR SHALL INSTALL THE STREETScape, INCLUDING ALL CONDUIT AND FOUNDATIONS PER CITY OF CHATTANOOGA STANDARD SD-507.01. CONTRACTOR SHALL ALSO INSTALL PULL BOXES WHICH ARE PROVIDED BY EPB. AFTER THE CONTRACTOR HAS INSTALLED PULL BOXES, CONDUIT, AND FOUNDATIONS, EPB WILL THEN INSTALL THE POLES, FIXTURES, AND PULL THE WIRE.

**6.CDOT CONTACTS:**

- A. MAIN OFFICE (423.643.5950) FOR GENERAL INQUIRIES, OR ALTERNATIVELY AS A 311 CALL (423.643.6311).
B. PUBLIC SPACE COORDINATOR (423.643.5962) FOR WORK ZONE TRAFFIC CONTROL.
C. TRAFFIC ENGINEERING TECHNICIAN (423.643.5843) FOR COORDINATION OF SIGNAGE AND PARKING METER INSTALLATION.
D. TRAFFIC SIGNAL ENGINEER (423.643.5958) WHEREVER PROJECT FRONTAGE ABUTS AN EXISTING TRAFFIC SIGNAL, SIGNAL INFRASTRUCTURE SUCH AS TRAFFIC LOOPS OR CABINETS, OR WHERE NEW SIGNAL INFRASTRUCTURE IS PROPOSED.



ADMINISTRATOR: BLYTHE BAILEY
CITY TRANSPORTATION ENGINEER: MARK D. HEINZER, P.E.

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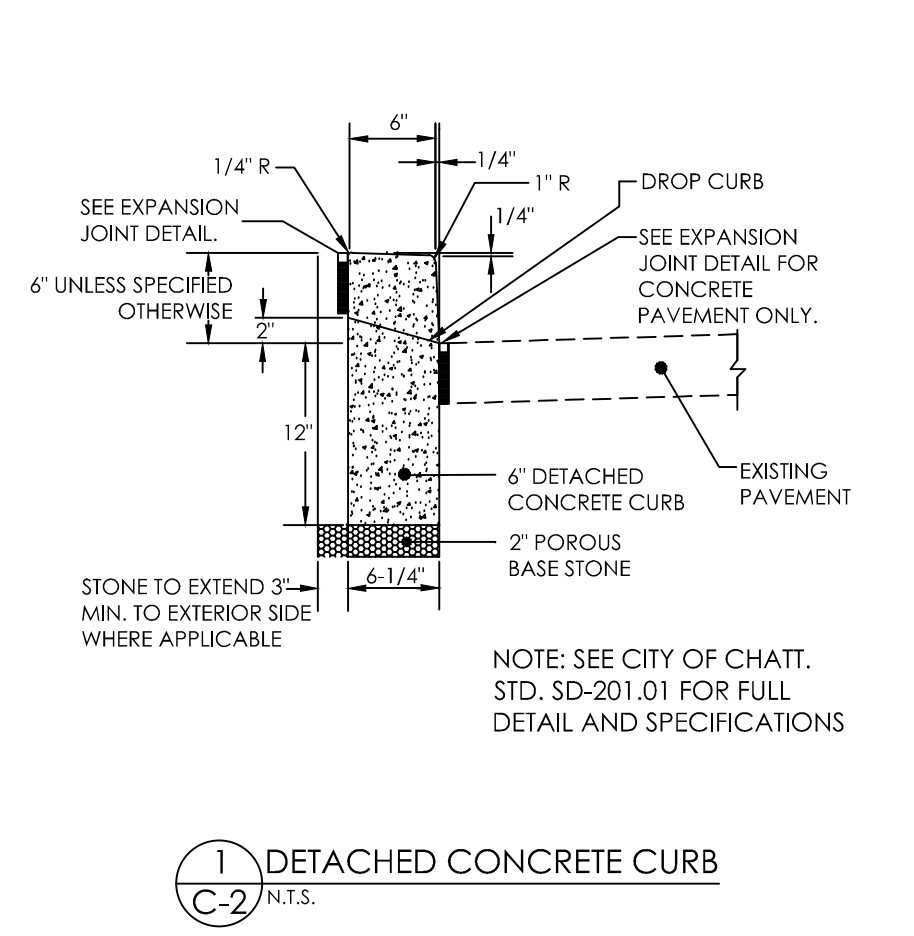
GENERAL NOTES

Table with columns: DATE, DRAWN, CHECKED, REVISIONS. Includes revision numbers 1 through 5.

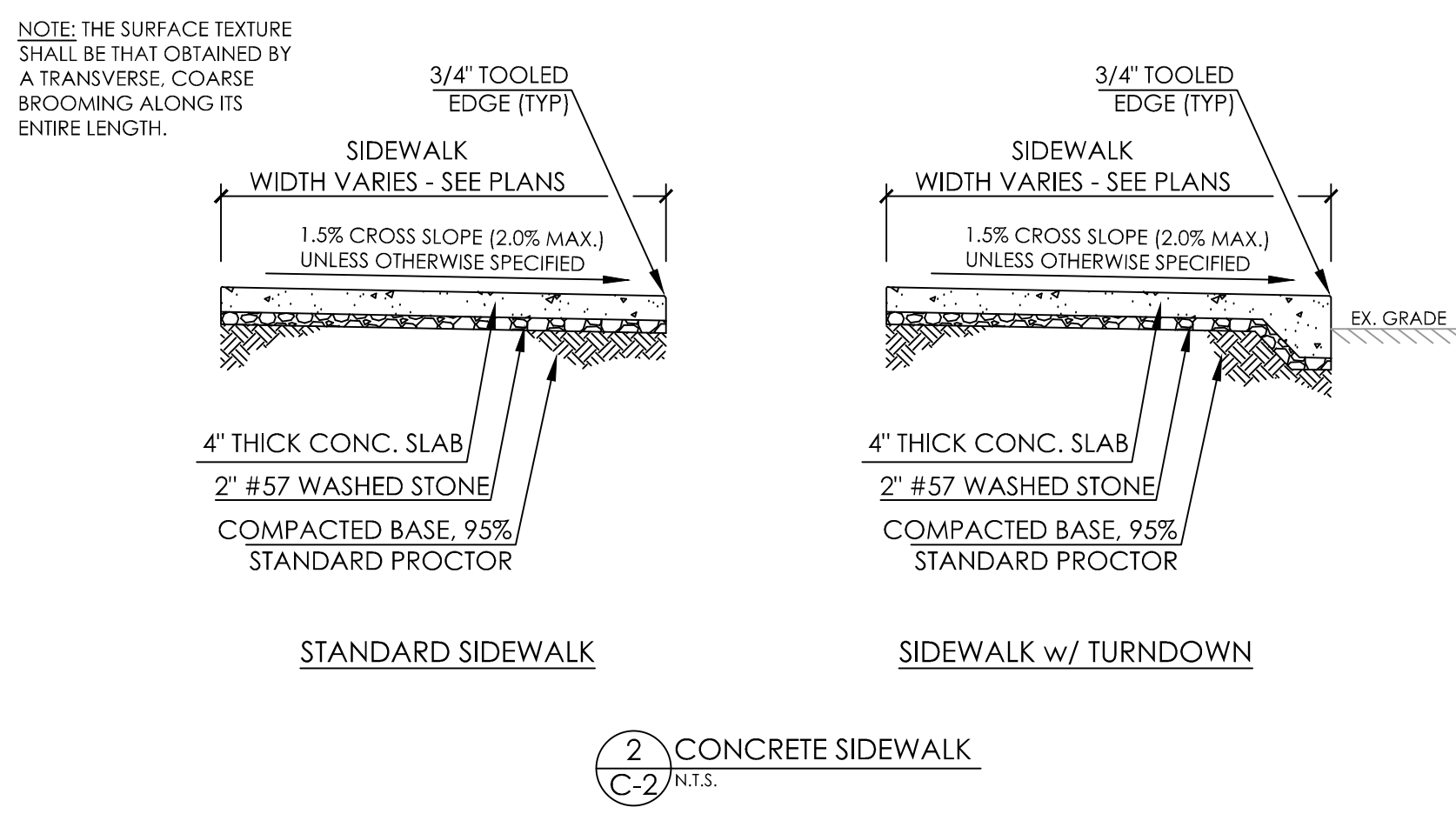


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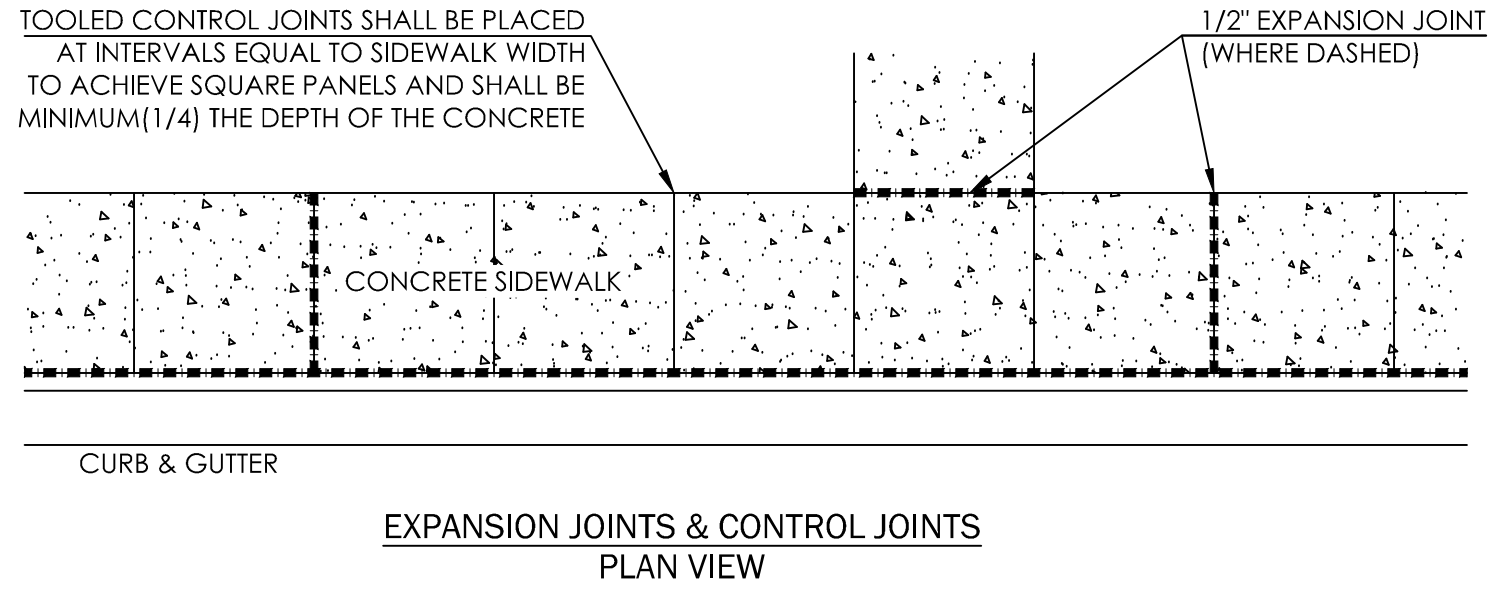
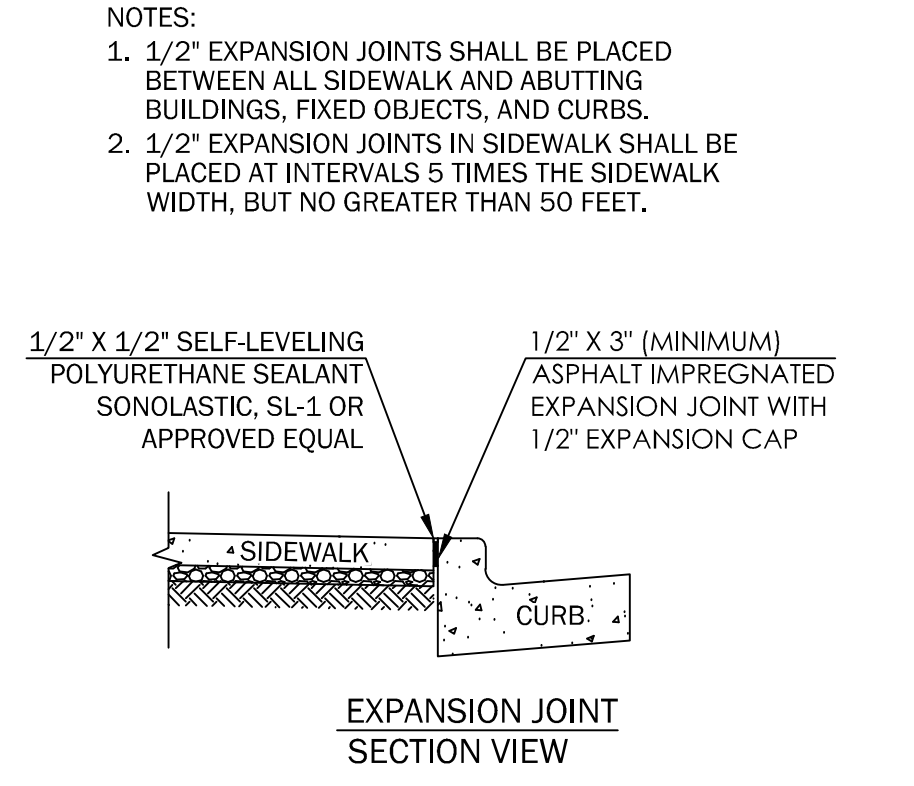
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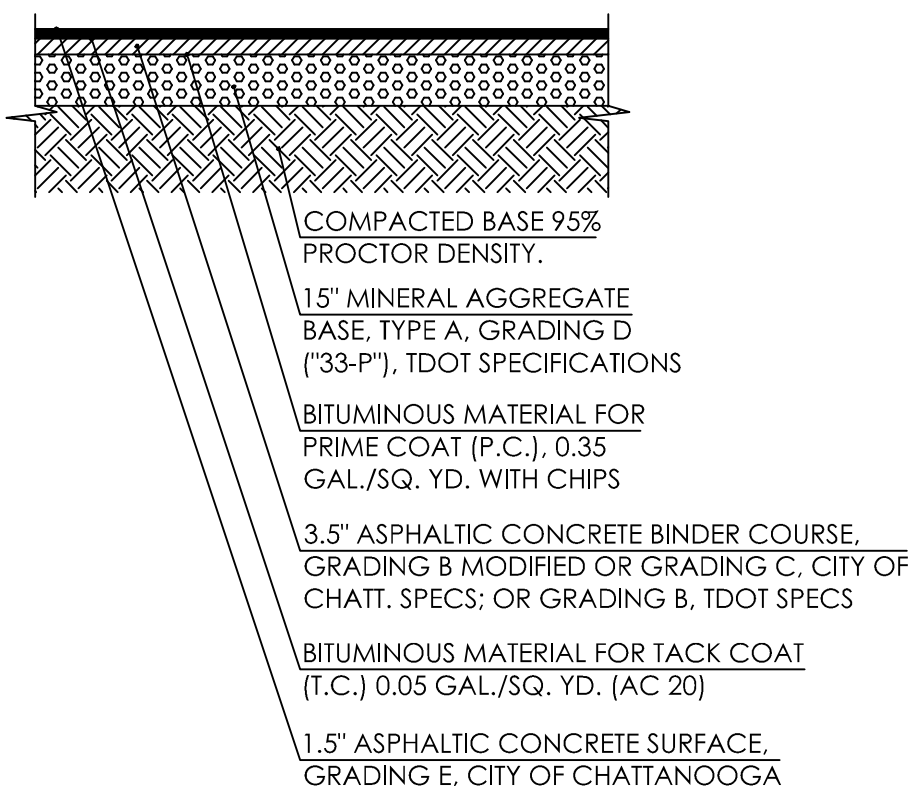
1 DETACHED CONCRETE CURB  
C-2 N.T.S.



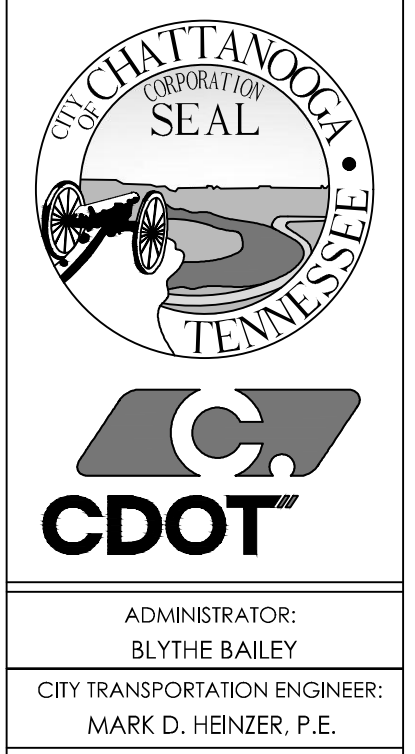
2 CONCRETE SIDEWALK  
C-2 N.T.S.



3 EXPANSION JOINT DETAIL  
C-2 N.T.S.



4 ASPHALT PAVEMENT  
C-2 N.T.S.

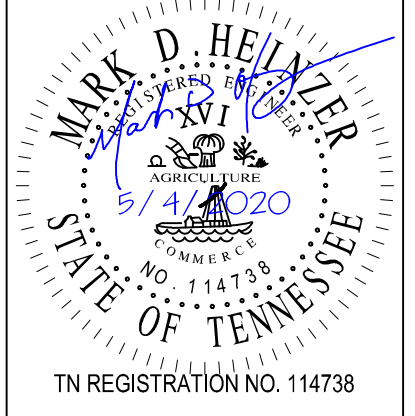


**BROAD STREET & 37TH STREET  
INTERSECTION IMPROVEMENTS**

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

**DETAILS**

DATE:	5/4/2020
DRAWN:	GMH
CHECKED:	CHAT
REVISIONS	
1	
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NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SANITARY SEWER & STORM SEWER (INCLUDING INVERTS), ELECTRIC, FIBER, CABLE, ETC. THESE PLANS DO NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES.



UTILITY LOCATE: CONTRACTOR SHALL CALL 811, OR (800) 351-1111, AT LEAST 3 DAYS PRIOR TO EXCAVATING OR SAW CUTTING. CONTRACTOR SHALL ALSO CALL CHATTANOOGA DEPARTMENT OF TRANSPORTATION TRAFFIC OPERATIONS DIVISION AT LEAST 3 BUSINESS DAYS PRIOR TO EXCAVATING OR SAW CUTTING WHEN PERFORMING WORK WITHIN 400' OF A SIGNALIZED INTERSECTION TO LOCATE AND MARK SUBSURFACE TRAFFIC SIGNAL WIRING, LOOPS, AND INFRASTRUCTURE. ANY REPAIR COSTS ASSOCIATED TO TRAFFIC SIGNAL INFRASTRUCTURE DAMAGED DURING CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR.



ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

**BROAD STREET & 37TH STREET  
INTERSECTION IMPROVEMENTS**

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

**DEMO & SITE  
& GRADING  
PLAN**

DATE: 5/4/2020  
DRAWN: GMH  
CHECKED: CHAT

REVISIONS

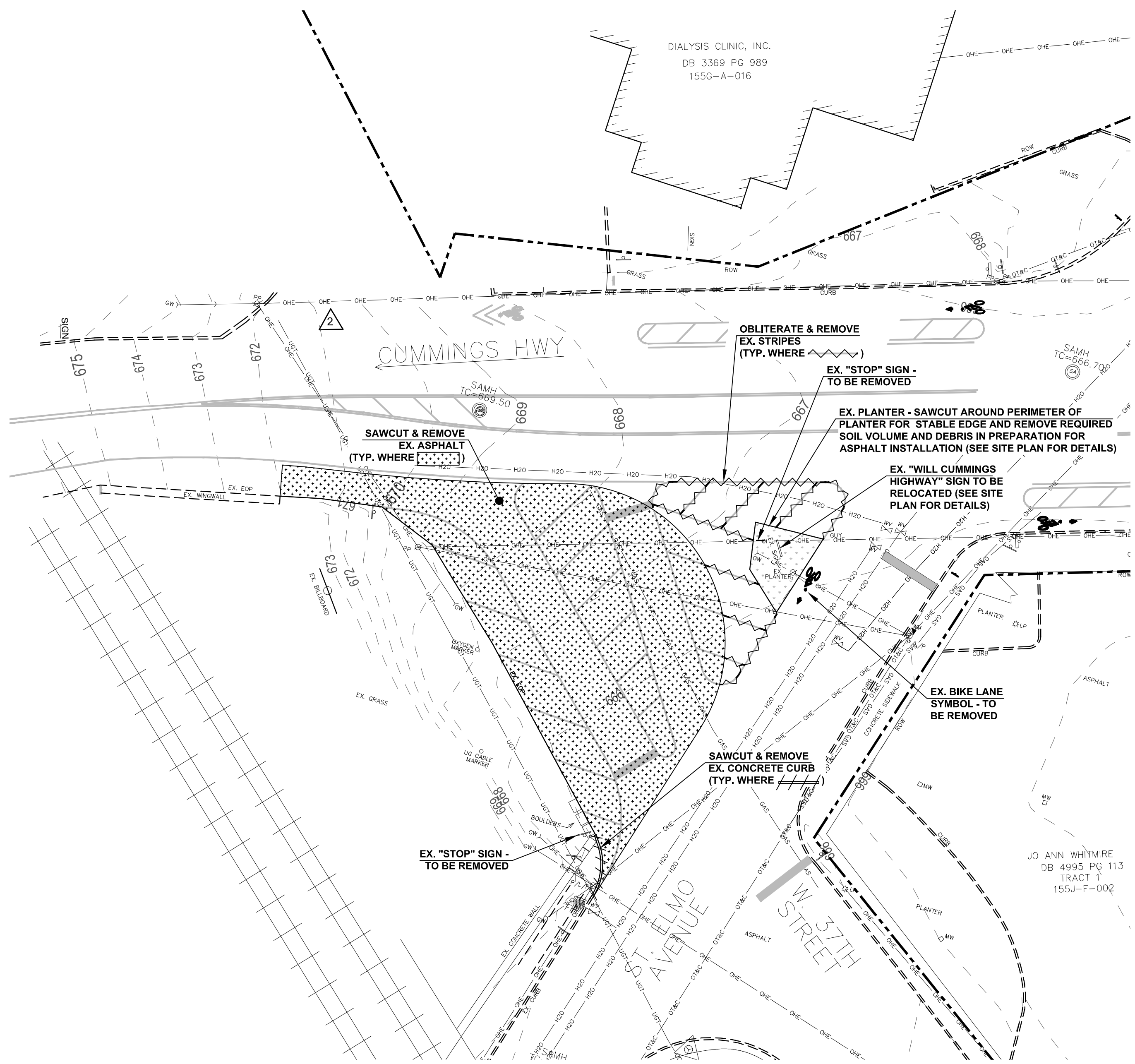
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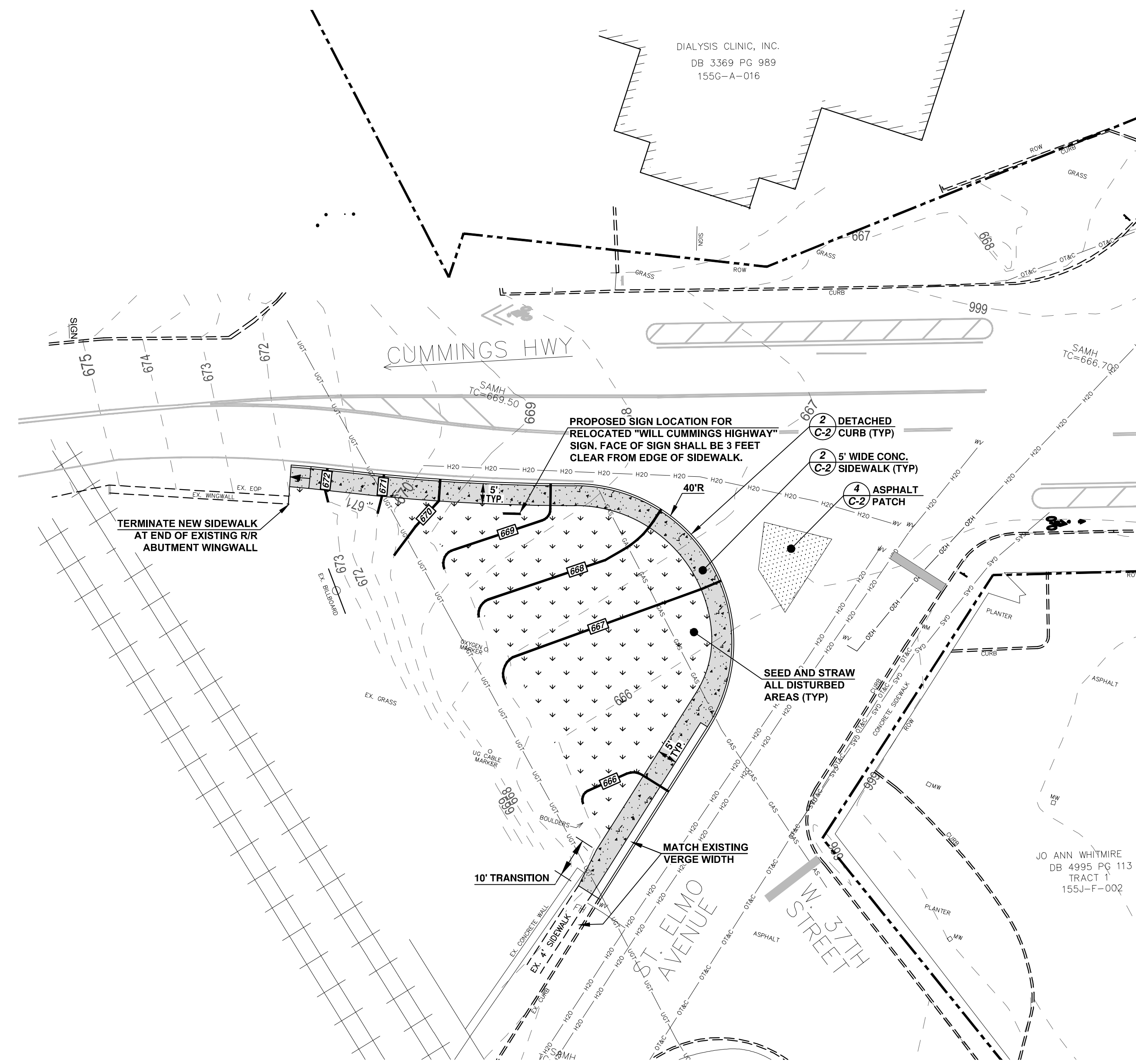
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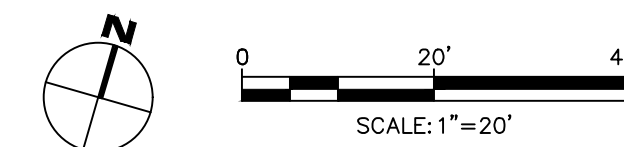
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DEMO PLAN



SITE & GRADING PLAN



# TREMONT & FRAZIER

## INTERSECTION IMPROVEMENTS



1250 MARKET STREET, SUITE 3030  
CHATTANOOGA, TENNESSEE 37402  
423.643.5950



ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

TREMONT AND FRAZIER

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

TITLE

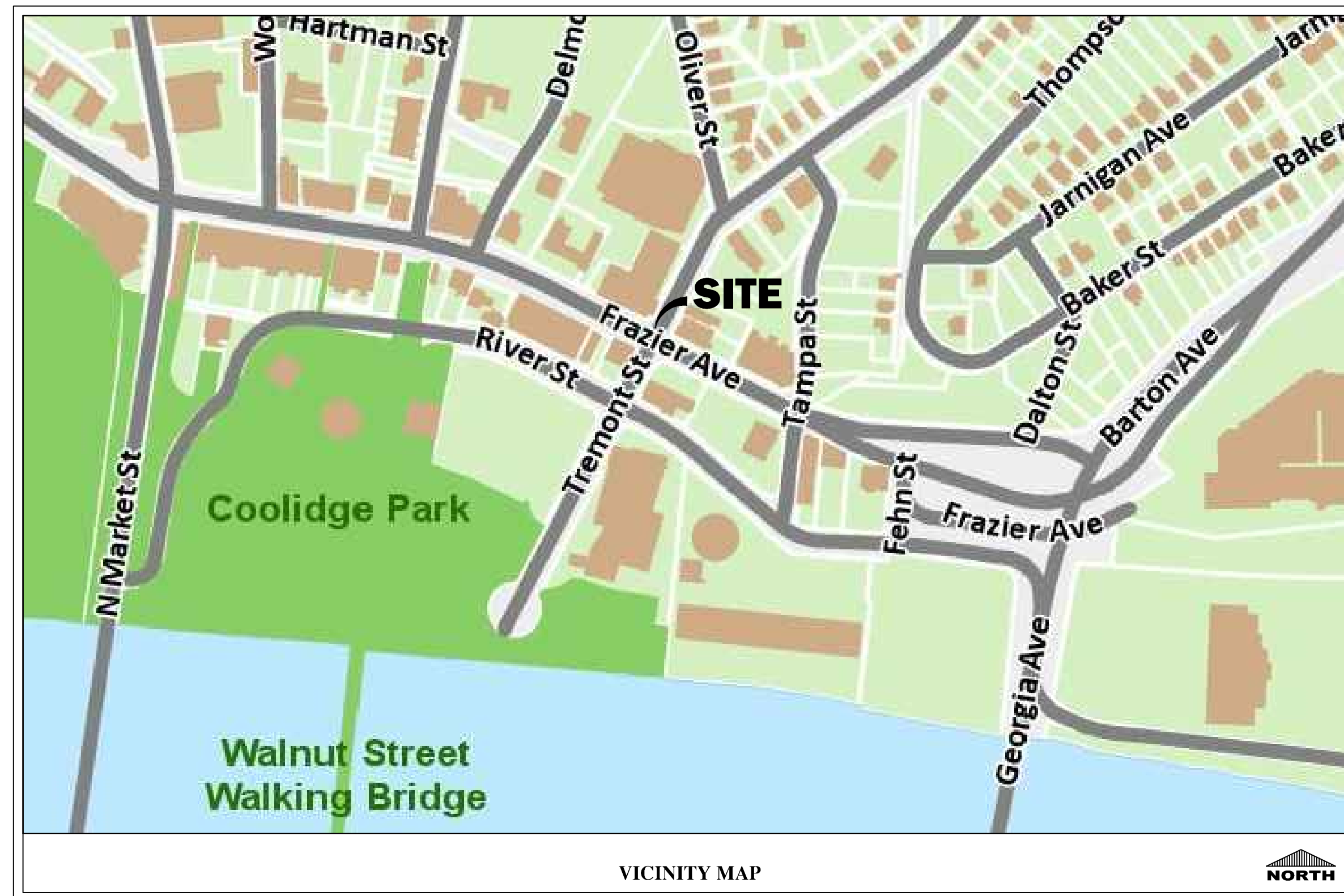
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GRADING PLAN	C-5



**MAYOR**  
**ANDY BERKE**

**CITY COUNCIL**  
DISTRICT 1 - CHIP HENDERSON  
DISTRICT 2 - JERRY MITCHELL, CHAIRPERSON  
DISTRICT 3 - KEN SMITH, VICE-CHAIRPERSON  
DISTRICT 4 - DARRIN LEDFORD  
DISTRICT 5 - RUSSELL GILBERT  
DISTRICT 6 - CAROL B. BERZ  
DISTRICT 7 - ERSKINE OGLESBY JR  
DISTRICT 8 - ANTHONY BYRD  
DISTRICT 9 - DEMETRUS COONROD

Digitally signed by Mark D. Heinzer  
DN: cn=Mark D. Heinzer, o=City of Chattanooga,  
ou, email=mheinzer@chattanooga.gov, c=US  
Date: 2020.05.04 15:33:35 -0400

**Mark D. Heinzer** DATE

MARK D. HEINZER, P.E.  
CITY TRANSPORTATION ENGINEER  
STATE LICENSE NO. 114738

Total Disturbed Area: \_\_\_\_\_ 0.1± acres

TOPOGRAPHIC SURVEY COMPLETED BY: CITY OF CHATTANOOGA,  
DATE: 10/21/2019.

BOUNDARY SURVEY COMPLETED BY: CHATTANOOGA / HAMILTON COUNTY GIS

**GENERAL NOTES**

**GRADING AND EXCAVATION**

- 1. ALL UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE PROPER AGENCIES BEFORE BEGINNING CONSTRUCTION. UNDERGROUND UTILITIES ARE NOT FIELD LOCATED NOR ARE ALL PURPORTED TO BE SHOWN. INFORMATION SHOWN SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR TO CONTACT ALL UTILITY COMPANIES TO HAVE UTILITIES FIELD LOCATED AND VERIFIED BEFORE EXCAVATION OR DEMOLITION WORK BEGINS.
2. THE CONTRACTOR SHALL PERFORM ALL NECESSARY STRIPPING OF EXISTING TOPSOIL ON THE JOBSITE.
3. REMOVE AND REPLACE UNSUITABLE AREAS WITH SUITABLE MATERIAL. FILL MATERIAL SHALL BE FREE OF ORGANIC, AND OTHER DELETERIOUS MATERIALS.
4. ALL FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS OF NO MORE THAN 8 INCHES AND COMPACTED TO 98 PERCENT OF THE STANDARD PROCTOR DENSITY (ASTM D698).
5. WHEN SPECIFIED GRADING REQUIREMENTS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL GRADE ALL AREAS WITHIN THE LIMITS OF CONSTRUCTION, OR OTHERWISE DISTURBED BY CONSTRUCTION, TO DRAIN AND TO MATCH THE EXISTING, ADJACENT GROUND.
6. ON THE PROJECT, NEWLY GRADED, EARTH AREAS NOT TO BE PAVED, RIP-RAPPED, OR STABILIZED, SHALL BE SEEDED IN ACCORDANCE WITH THE CITY SPECIFICATIONS. PRIOR TO SEEDING, A THREE-INCH (3") LAYER OF TOPSOIL SHALL BE PLACED ON THESE AREAS IN ACCORDANCE WITH SAID SPECIFICATIONS.
7. EXCAVATION ADJACENT TO EXISTING PAVEMENT SHALL BE MADE TO A SAW CUT TO GET A NEAT LINE.

**EROSION/POLLUTION CONTROL**

- 1. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS BEGIN. CLEARING AND GRUBBING SHALL BE HELD TO A MINIMUM WIDTH NECESSARY TO ACCOMMODATE THE REQUIRED GRADING. EMBANKMENTS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINIMIZE EROSION. SILT FENCE AND/OR SILT SOCKS SHALL BE USED ALONG THE TOE OF FILL SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SILT-LADEN RUNOFF MAY ENTER A STREAM OR ADJACENT PROPERTY.
2. ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT'S ENTERING STREAMS. NO EXCAVATED MATERIAL SHALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION, APPROVED BY THE ENGINEER, ABOVE THE NORMAL HIGH WATER ELEVATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL EROSION CONTROL PROVISIONS AS SET FORTH IN THE BEST MANAGEMENT PRACTICES MANUAL AVAILABLE FROM THE STORMWATER MANAGEMENT DIVISION OF THE CITY OF CHATTANOOGA DEPARTMENT OF PUBLIC WORKS. REFER TO CITY ORDINANCE 12900.
4. WITHIN THE UNIT PRICE FOR EACH EROSION CONTROL ITEM, THE CONTRACTOR IS EXPECTED TO MAINTAIN THE EROSION CONTROL MEASURES THROUGHOUT THE LENGTH OF THE CONTRACT AS REQUIRED.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND WATER CONTROL MEASURES (SUCH AS BERMS, SEDIMENT BASINS, SLOPE DRAINS, HAY BALES, AND SILT FENCES) AS DIRECTED BY THE ENGINEER. THESE TEMPORARY MEASURES SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL FEATURES TO ASSURE ECONOMICAL, EFFECTIVE, AND CONTINUOUS EROSION CONTROL THROUGHOUT THE PROJECT.
6. NO EARTH OR OTHER ERODIBLE MATERIAL SHALL BE USED TO DIVERT STREAM FLOW OR TO CONSTRUCT COFFERDAMS. CLEAN CUT ROCK WITH FINES MAY BE USED, OR, IN THE CASE OF COFFERDAMS, STEEL SHEETING IS PERMISSIBLE. WATER OR SEDIMENT ISOLATED BY COFFERDAMS OR DISPLACED FOOTINGS SHALL BE PUMPED INTO SEDIMENT BASINS ON THE BANK OF THE STREAM. ALL COSTS OF TEMPORARY POLLUTION CONTROL SHALL BE INCLUDED IN THE LUMP SUM BID.

**DRAINAGE**

- 1. COSTS OF EXCAVATION FOR CURB INLETS, MANHOLES, PIPE CULVERTS, AND OTHER STRUCTURES SHALL BE INCLUDED IN THE UNIT PRICE COST OF THE ITEM.
2. THE CONTRACTOR IS REQUIRED TO CONNECT ALL EXISTING STORM DRAINAGE PIPE TO PROPOSED DRAINAGE STRUCTURES AS REQUIRED. THE COST IS TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION.
3. EXISTING DOWN SPOUT DRAINAGE THAT IS CONNECTED TO THE PRESENT STORM SEWER SYSTEM SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM. THE COST IS TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL BEDDING & BACKFILL FOR STORM SEWERS WITH MATERIAL IN ACCORDANCE WITH THE CITY OF CHATTANOOGA'S STANDARD DRAWINGS AND SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
5. REMOVAL OF EXISTING DRAINAGE STRUCTURES IN THIS CONTRACT SHALL BE CONSIDERED INCIDENTAL, THEREFORE NO SEPARATE PAYMENT SHALL BE MADE UNLESS STATED OTHERWISE. COMPENSATION SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS UNLESS STATED OTHERWISE.
6. THE COST OF CONNECTING THE PROPOSED STORM SEWERS TO THE PROPOSED STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER PIPE, WHETHER CONNECTION IS TO A CATCH BASIN, CURB INLET, OR MANHOLE, OR TO ANOTHER STORM SEWER PIPE.

**UTILITIES**

- 1. LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. IT IS POSSIBLE THAT SOME EXISTING FACILITIES ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITY FACILITIES LOCATED AND MARKED PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. UTILITY OWNERS ARE TO RESET, RELAY, OR ADJUST, AT THEIR OWN EXPENSE, POWER AND TELEPHONE LINES, POWER POLES, WATER AND GAS LINES, AND ALL OTHER FACILITIES INCLUDING METERS, VALVES, PITS, ETC., CONFLICTING WITH THE PROPOSED IMPROVEMENTS WITHIN THE EXISTING RIGHT-OF-WAY. ALL RELOCATED POLES, METERS, VALVES, ETC., ARE TO BE LOCATED AS NECESSARY AND AS DIRECTED BY THE OWNER.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING HIS BID SO THAT HE MAY DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS SHALL HAVE UPON THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT SHALL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY UTILITY ADJUSTMENTS.

- 4. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY CUSTOMERS AT LEAST 24 HOURS BEFORE INTERRUPTING THE CUSTOMERS' SERVICE. WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 4 HOURS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES, AND COMPENSATION, THEREFORE, SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS.
5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FROM FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
6. ANY EXISTING STORM OR SANITARY SEWER DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS RAPIDLY AS POSSIBLE AND THEN BE INSPECTED BY ITS RESPECTIVE OWNER. THE ENGINEER SHALL DETERMINE IF DAMAGE IS THE RESULT OF THE CONTRACTOR'S NEGLIGENCE OR OF AN UNAVOIDABLE CAUSE.
7. THE COST OF EXTENDING ALL 4" DIAMETER PVC SEWER LATERALS SHALL BE FOR COMPLETE, IN-PLACE WORK AND SHALL INCLUDE ALL INCIDENTAL COSTS. AREAS WHERE THE EXTENSIONS ARE TO OCCUR SHALL BE DETERMINED BY THE ENGINEER.
8. ALL CUTS AND FILLS ARE TO BE IN PLACE AND COMPACTED PRIOR TO INSTALLATION OF SANITARY AND STORM SEWERS AND APPURTENANCES.
9. ALL SANITARY SEWER CONSTRUCTION MUST BE DONE BY A LICENSED MUNICIPAL UTILITY CONTRACTOR- CLASSIFICATION MU.
10. TRANSITION JOINTS ON SANITARY SEWER PIPES OF DIFFERENT MATERIALS MUST BE APPROVED BY THE JURISDICTIONAL ENGINEER AND CONSTRUCTION MUST BE DONE WITH APPROVED FITTINGS AND/OR ADAPTERS.

**TRAFFIC**

- 1. UPON NOTICE OF AWARD OF A CITY CONTRACT, THE CONTRACTOR SHALL SUBMIT, WITHIN TEN (10) DAYS, A CONSTRUCTION SCHEDULE. THE CITY OF CHATTANOOGA'S TRANSPORTATION DEPARTMENT SHALL PROVIDE A WORK ZONE TRAFFIC CONTROL PLAN WITHIN FIVE (7) DAYS THEREAFTER.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN TRAFFIC AND PROVIDE TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL TRAFFIC SIGNS AND MARKINGS AS REQUIRED BY THE MUTCD AND THE CITY OF CHATTANOOGA'S DEPARTMENT OF TRANSPORTATION.
3. PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE PLACED BY CONTRACTOR.
4. THE CONTRACTOR SHALL MAINTAIN ALL BUSINESS, VEHICULAR, AND PEDESTRIAN ENTRANCES.
5. THE CONTRACTOR SHALL PROVIDE A PEDESTRIAN WALKWAY THAT SEPARATES AND INSULATES THE PEDESTRIAN FROM THE CONSTRUCTION SITE AND VEHICULAR TRAFFIC. WHERE POSSIBLE, THE WALKWAY SHALL BE ON THE SAME SIDE OF THE STREET AS THE CONSTRUCTION SITE. WHERE OVERHEAD DANGER EXISTS, THE CONTRACTOR SHALL PROVIDE A COVERED WALKWAY.
6. PRIOR TO CLOSING THE ROAD TO THROUGH TRAFFIC, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED LOCAL AGENCIES ABOUT THE PROPOSED ROAD CLOSURE. THOSE TO BE CONTACTED SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: FIRE DEPARTMENT, POLICE DEPARTMENT, SHERIFF'S DEPARTMENT, POST OFFICE, CITY TRANSPORTATION ENGINEER'S OFFICE, AND THE BOARD OF EDUCATION.
7. THE CONTRACTOR, WHEN DIRECTED BY THE CITY TRANSPORTATION DEPARTMENT, SHALL MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON THE PREDOMINATE TRAVEL PATH.

**DRIVEWAYS**

- 1. WHEN A CONCRETE CURB OR CURB AND GUTTER IS BUILT, THE CONTRACTOR SHALL INSTALL A DROP CURB FOR EACH LOT AT A LOCATION CHOSEN BY THE ENGINEER. A DOWNTOWN LOT SHALL BE EXEMPT WHEN A BUILDING EXISTS ACROSS THE PROPERTY FRONTAGE OR IS PLANNED TO BE CONSTRUCTED ACROSS THE FRONTAGE.
2. EXISTING, PAVED DRIVEWAYS SHALL BE REPLACED IN KIND TO THE TIE-IN POINT. EACH EXISTING, UNPAVED DRIVEWAY SHALL RECEIVE A FIVE FEET CONCRETE PAD BEHIND, AND ADJACENT TO, THE DRIVEWAY APRON OR BACK CURB LINE AS APPLICABLE AND THEN BE REPLACED IN KIND FROM THERE TO THE TIE-IN POINT.

**MISCELLANEOUS**

- 1. THE ENGINEER SHALL HAVE THE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION.
2. THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHOULD SATISFY HIMSELF BY ON-SITE INSPECTIONS, CORE DRILLINGS, OR OTHER METHODS, OF THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED. THE RISK OF ENCOUNTERING AND CORRECTING UNFAVORABLE SUBSURFACE CONDITIONS SHALL BE BORNE SOLELY BY THE CONTRACTOR.

- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL FIELD LAYOUTS, APPROVED BY THE ENGINEER, FOR THE ROADWAY, DRAINAGE STRUCTURES, AND OTHER FACILITIES. ALL FINISHED GRADE ELEVATIONS AND LAYOUT SHALL BE SET USING A HUB AND TACK AND/OR PK NAILS, AS DETERMINED BY FIELD CONDITIONS.
4. SHOULD AN EXISTING BENCH MARK BE LOCATED ON A POWER POLE, TELEPHONE POLE, ETC., THAT IS TO BE RELOCATED DURING CONSTRUCTION, THE BENCH MARK SHALL BE RELOCATED BY A CITY CREW PRIOR TO CONSTRUCTION.
5. ALL SALVAGEABLE MATERIAL FROM EXISTING PIPING AND STRUCTURES SHALL REMAIN PROPERTY OF THE CITY OF CHATTANOOGA. SAID MATERIAL SHALL BE CLEANED AND THEN DELIVERED TO THE OWNER AT A LOCATION DESIGNATED BY THE ENGINEER.
6. ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER OR THROUGH TESTING, IS TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL. PAYMENT SHALL BE BASED ON A CUBIC YARD QUANTITY.
7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AT HIS OWN EXPENSE ANY AND ALL DAMAGES THAT MAY OCCUR OUTSIDE THE LIMITS OF THIS PROJECT AS A RESULT OF CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXISTING CURB & COMBINED CURB AND GUTTERS WHERE APPLICABLE.
9. ALL EXISTING DRAINAGE STRUCTURES, ABANDONED UTILITY FACILITIES, STRUCTURE FOUNDATIONS, AND SIMILAR ITEMS WITHIN THE LIMITS OF PAVING SHALL BE REMOVED TO A MINIMUM OF TWO FEET BELOW THE TOP OF SUBGRADE, AND REMAINING VOIDS SHALL BE FILLED WITH APPROPRIATE BACKFILL THEN COMPACTED IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF SAID ITEMS OR FOR FURNISHING AND COMPACTING CRUSHED STONE BACKFILL, AND COMPENSATION, THEREFORE, SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS.
10. ALL TREES LARGER THAN 3 INCHES IN DIAMETER NEEDING TO BE REMOVED PRIOR TO THE COMPLETION OF THIS CONTRACT, SHALL BE CUT IN 3 FOOT LENGTHS AND STACKED ON THE ADJACENT PROPERTY IF THAT PROPERTY'S OWNER WISHES TO USE THE WOOD.

- 11. THE COST OF HANDICAP RAMPS SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR "CONCRETE SIDEWALK (4")", OF THE CITY'S CONTRACT SPECIFICATIONS. COST OF DROP CURBS SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR THE ITEM FOR THE STANDARD CORRELATING STANDARD CURB OF THE CITY'S CONTRACT SPECIFICATIONS.
12. THE OWNER SHALL BE RESPONSIBLE FOR THE PAYMENT FOR TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORDERING APPROPRIATE TESTS AS REQUIRED BY THE INSPECTOR.
13. THE CONTRACTOR SHALL REPLACE IN KIND ANY AND ALL SHRUBS, FENCES, MAILBOXES, ETC., THAT ARE REMOVED OR DAMAGED FROM CONSTRUCTION ACTIVITIES. NO SEPARATE PAYMENT SHALL BE MADE FOR ITEMS THAT WERE REMOVED OR DAMAGED THAT WERE NOT NECESSARY TO DO SO FOR THE CONSTRUCTION.
14. THE CONTRACTOR SHALL NOT BE ALLOWED TO REMOVE ANY FENCE OTHER THAN THAT NECESSARY FOR THE CONSTRUCTION OF THE NEW ROAD OR RELATED APPURTENANCES. ANY FENCE REMOVED IS TO BE REPLACED IN KIND BY THE CONTRACTOR WITH THE COSTS INCLUDED IN THE UNIT PRICE BID FOR, "FENCE RELOCATION" (WHERE APPLICABLE), OF THE CITY'S CONTRACT SPECIFICATIONS.
15. THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS ONE WEEK'S NOTICE PRIOR TO CUTTING FENCES.
16. WHEN REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF THE PROJECT WITHIN THIRTY (30) DAYS AFTER SUBSTANTIAL COMPLETION OF THE WORK. ("SUBSTANTIAL COMPLETION" SHALL BE DEFINED BY THE JURISDICTIONAL ENGINEER.) THE ENGINEER RESERVES THE RIGHT TO WITHHOLD THE RETAINER UNTIL RECEIVING A COMPLETE SET OF SAID DRAWINGS.
17. SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION IN FAVOR OF THE ENGINEER SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY CLARIFICATION OR INTERPRETATION OF GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, IN ADVANCE AND IN WRITING, FROM THE ENGINEER.
18. CONTRACTOR SHALL VERTICALLY PRUNE TREE ROOTS PRIOR TO ANY GRADING OR EXCAVATION WITHIN 50 FEET (15.2M) OF THE LIMIT OF THE CRITICAL ROOT ZONE, ROOT PRUNE ALL EXISTING TREES TO A DEPTH OF 24 INCHES (61CM) BELOW EXISTING GRADE. VERTICAL CUTS SHALL BE MADE WITHIN TWO FEET OF THE LIMIT OF THE GRADING OR EXCAVATION. CONTRACTOR SHALL USE A ROCK SAW, VIBRATORY PLOW, CABLE PULLER, OR SIMILAR MECHANICAL DEVICE OR A SHARPENED SHOVEL, SPADE AND HAND PRUNERS IF DONE MANUALLY. CONTRACTOR SHALL HAVE THE BLADE SHARPENED ON MECHANICAL ROOT PRUNERS BEFORE STARTING THE PROJECT. UPON COMPLETION OF THE CUT, THE CONTRACTOR WILL IMMEDIATELY BACKFILL THE CUT WITH SOIL, AVOIDING ANY AIR POCKETS.

NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SANITARY SEWER & STORM SEWER (INCLUDING INVERTS), ELECTRIC, FIBER, CABLE, ETC. THESE PLANS DO NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES.

811 Know what's below. Call before you dig. UTILITY LOCATE: CONTRACTOR SHALL CALL 811, OR (800) 351-1111, AT LEAST 3 DAYS PRIOR TO EXCAVATING OR SAW CUTTING. CONTRACTOR SHALL ALSO CALL CHATTANOOGA DEPARTMENT OF TRANSPORTATION TRAFFIC OPERATIONS DIVISION AT LEAST 3 BUSINESS DAYS PRIOR TO EXCAVATING OR SAW CUTTING WHEN PERFORMING WORK WITHIN 400' OF A SIGNALIZED INTERSECTION TO LOCATE AND MARK SUBSURFACE TRAFFIC SIGNAL WIRING, LOOPS, AND INFRASTRUCTURE. ANY REPAIR COSTS ASSOCIATED TO TRAFFIC SIGNAL INFRASTRUCTURE DAMAGED DURING CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR.

UTILITY OWNERS table with columns: UTILITY, OWNER, PHONE NO., CONTACT, ADDRESS, CITY, STATE, ZIP CODE. Includes entries for Traffic Signal, Telephone, Telecom, Water, Sewage, Gas, Power & Telecom, Cable TV, Railroad (TVRM), and Stormwater.

- 19. ALL CONCRETE SHALL BE CLASS "A" (4,000 P.S.I.) UNLESS OTHERWISE NOTED ON DRAWING OR CITY STANDARD DETAILS. (CLASS "B" CONCRETE SHALL BE 3,000 P.S.I.).
20. THE CONTRACTOR SHALL PROVIDE CUT SHEETS FOR ALL STORMWATER AND/OR SANITARY SEWER INSTALLED PRIOR TO INSTALLATION.

**TRANSPORTATION NOTES**

- 1. ALL CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY SHALL CONFORM TO FEDERAL PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). THE CONTRACTOR AND REGISTERED DESIGN PROFESSIONAL OF RECORD (PE, PLA, OR RA) ARE EXPECTED TO BE FAMILIAR WITH THESE STANDARDS AND PROMPTLY NOTIFY THE CHATTANOOGA DEPARTMENT OF TRANSPORTATION (CDOT) OF ANY ANTICIPATED DEVIATION.
2. CONTRACTOR SHALL REFER TO THE CITY OF CHATTANOOGA STANDARD DETAILS FOR ALL APPLICABLE CONSTRUCTION STANDARDS. THE SD-200 SERIES SHALL BE USED FOR ALL ROADWAY AND DRIVEWAY RELATED DETAILS. THE SD-500 SERIES SHALL BE USED FOR ALL STREETScape STANDARDS. THE SD-700 SERIES SHALL BE USED FOR ALL REPAIR DETAILS. THE CONTRACTOR SHALL NOTIFY THE CITY WHEN ANY DEVIATIONS FROM THESE STANDARDS ARE ANTICIPATED, AND SHALL COORDINATE WITH THE PROJECT'S REGISTERED DESIGN PROFESSIONAL OF RECORD (PE, PLA, OR RA) FOR CHANGES TO BE INCORPORATED ON THE CITY'S PERMIT SET.
3. WHERE APPLICABLE TO THE PROJECT AND NOTED ON PLANS, THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF CHATTANOOGA AND ALL LOCAL UTILITY COMPANIES FOR THE UNDERGROUND RELOCATION OF UTILITY LINES.
4. CONTRACTOR SHALL MATCH EXISTING SIDEWALK AND GUTTER GRADES WHEREVER PROPOSED CONSTRUCTION MEETS EXISTING. CONSTRUCTION OF ALL THESE AND ALL APPLICABLE FACILITIES SHALL STILL COMPLY WITH PROWAG WITH THE EXCEPTION OF THESE BLENDED TRANSITIONS.
5. STREETScape:
A. ALL STREET LIGHTING PROPOSED ON THE PLANS SHALL BE COORDINATED BY THE CONTRACTOR W/ EPB AND SEQUENCED WITH THE PROJECT PHASING. ANY UNRESOLVED LIGHTING WILL DELAY PROJECT CLOSEOUT UNLESS PROVIDED WITH A WRITTEN APPROVAL FROM CDOT. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR MANUFACTURER, POLE STYLE, AND POLE COLOR IF NOT NOTED ON PLANS IN ORDER TO CONFIRM SPECIFICATIONS PRIOR TO ORDERING. CONTACT THE CDOT DESIGN MANAGER (423.643.5919) FOR COORDINATION AND TO SCHEDULE INSPECTION OF STREETScape COMPONENTS PRIOR TO PROJECT CLOSEOUT.
B. CONTRACTOR SHALL HAVE ALL EXISTING PEDESTRIAN LIGHTS WITHIN THE PROJECT'S LIMITS OF WORK REMOVED PRIOR TO CONSTRUCTION AND SALVAGED UNTIL HARDScape IS SUBSTANTIALLY COMPLETE. COORDINATE WITH THE CHATTANOOGA ELECTRIC POWER BOARD (EPB) AT 423.648.1372 PRIOR TO BEGINNING CONSTRUCTION AND TO SCHEDULE REPLACEMENT. ANY COSTS ASSOCIATED WITH PROTECTION AND RELOCATION OF POLES SHALL BE INCURRED BY THE CONTRACTOR.
C. CONTRACTOR SHALL INSTALL THE STREETScape, INCLUDING ALL CONDUIT AND FOUNDATIONS PER CITY OF CHATTANOOGA STANDARD SD-507.01. CONTRACTOR SHALL ALSO INSTALL PULL BOXES WHICH ARE PROVIDED BY EPB. AFTER THE CONTRACTOR HAS INSTALLED PULL BOXES, CONDUIT, AND FOUNDATIONS, EPB WILL THEN INSTALL THE POLES, FIXTURES, AND PULL THE WIRE.
6. CDOT CONTACTS:
A. MAIN OFFICE (423.643.5950) FOR GENERAL INQUIRIES, OR ALTERNATIVELY AS A 311 CALL (423.643.6311).
B. PUBLIC SPACE COORDINATOR (423.643.5962) FOR WORK ZONE TRAFFIC CONTROL.
C. TRAFFIC ENGINEERING TECHNICIAN (423.643.5843) FOR COORDINATION OF SIGNAGE AND PARKING METER INSTALLATION.
D. TRAFFIC SIGNAL ENGINEER (423.643.5958) WHEREVER PROJECT FRONTAGE ABUTS AN EXISTING TRAFFIC SIGNAL, SIGNAL INFRASTRUCTURE SUCH AS TRAFFIC LOOPS OR CABINETS, OR WHERE NEW SIGNAL INFRASTRUCTURE IS PROPOSED.



ADMINISTRATOR: BLYTHE BAILEY
CITY TRANSPORTATION ENGINEER: MARK D. HEINZER, P.E.

TREMONT AND FRAZIER

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION
1250 MARKET ST., SUITE 3030
CHATTANOOGA, TN 37402

NOTES

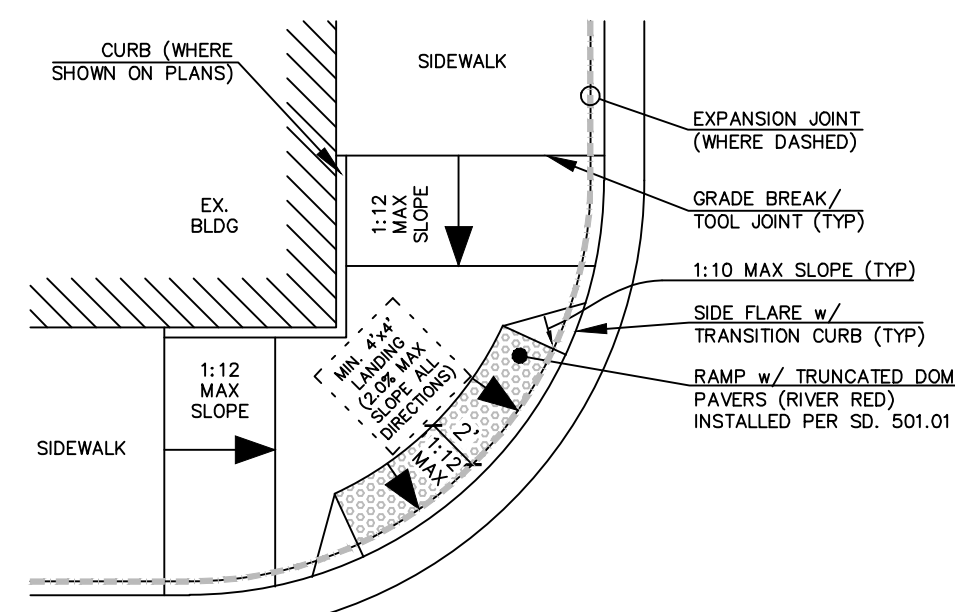
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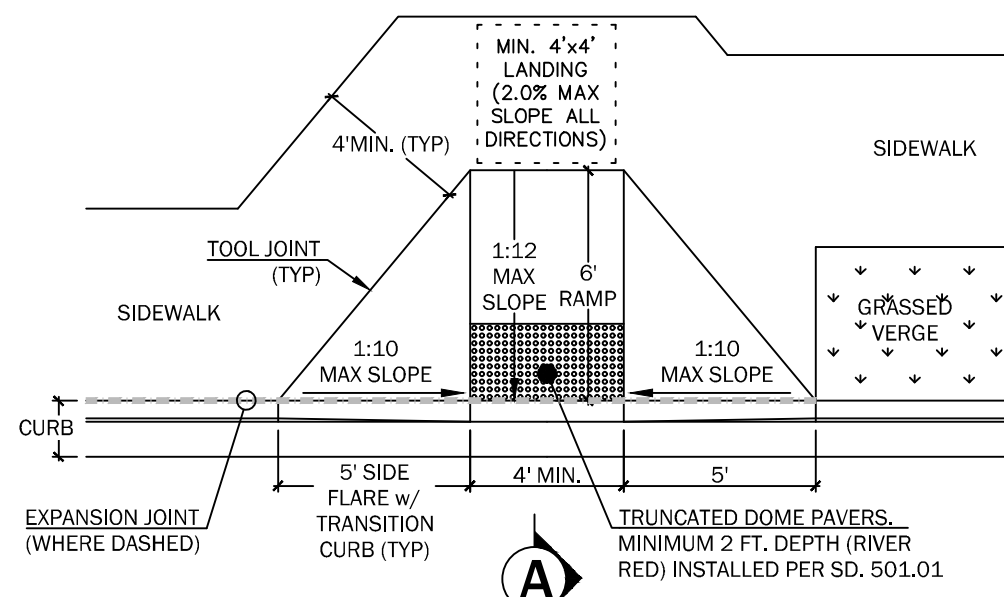
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NOTE: CURB RAMPS AT CORNERS SHALL BE CONSTRUCTED w/ 6" THICK CONCRETE SLAB, CLASS 'A' CONCRETE

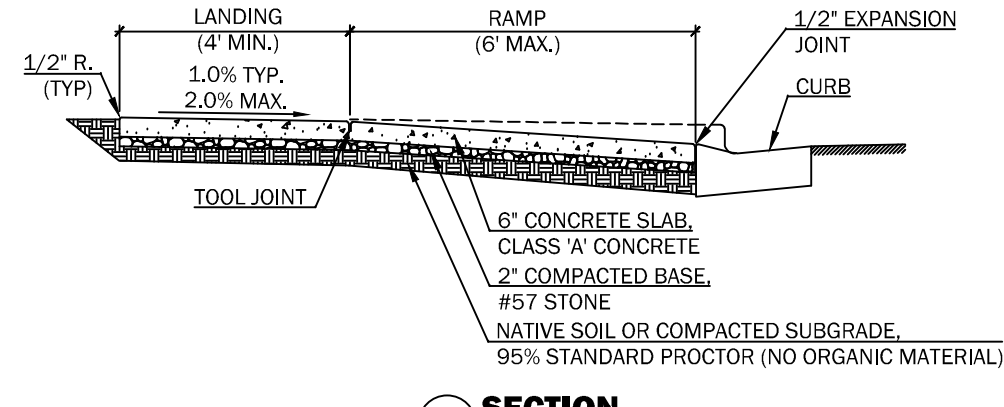


1 COMBINATION CURB RAMP IN CURVE  
C-2 N.T.S.

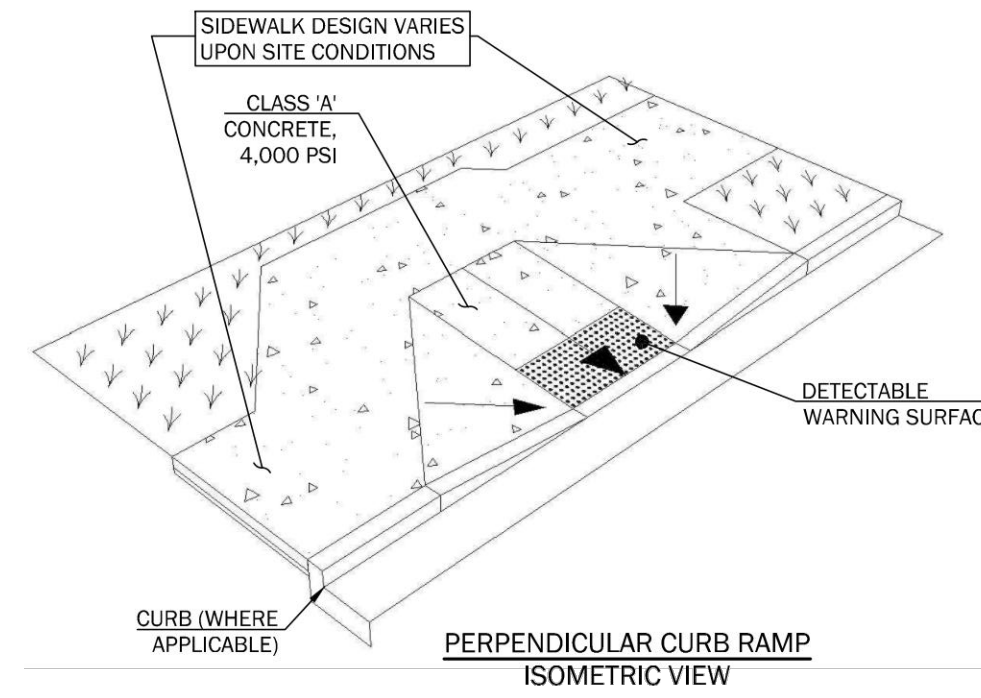
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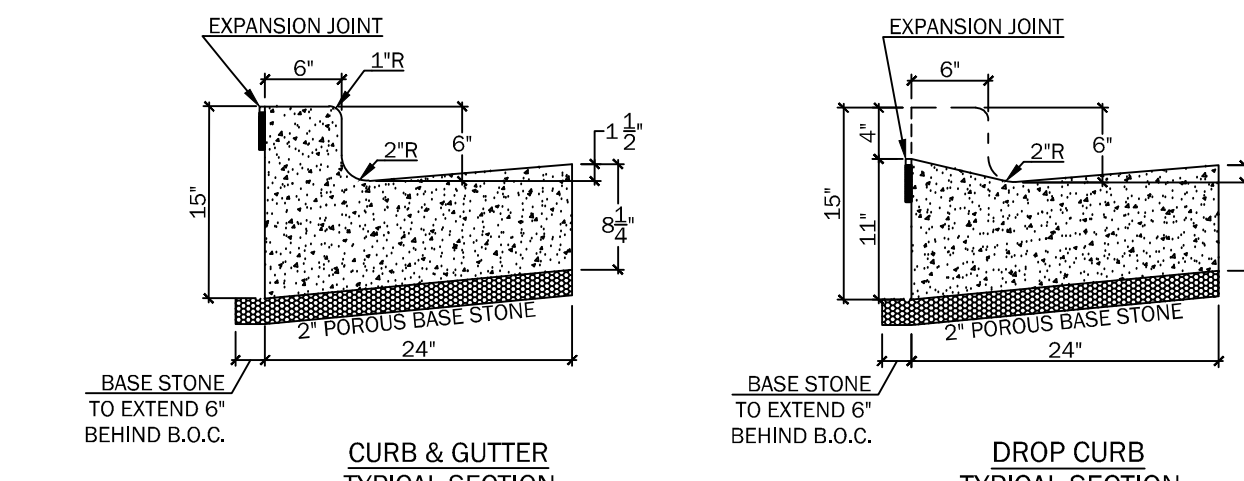
2 PERPENDICULAR CURB RAMP  
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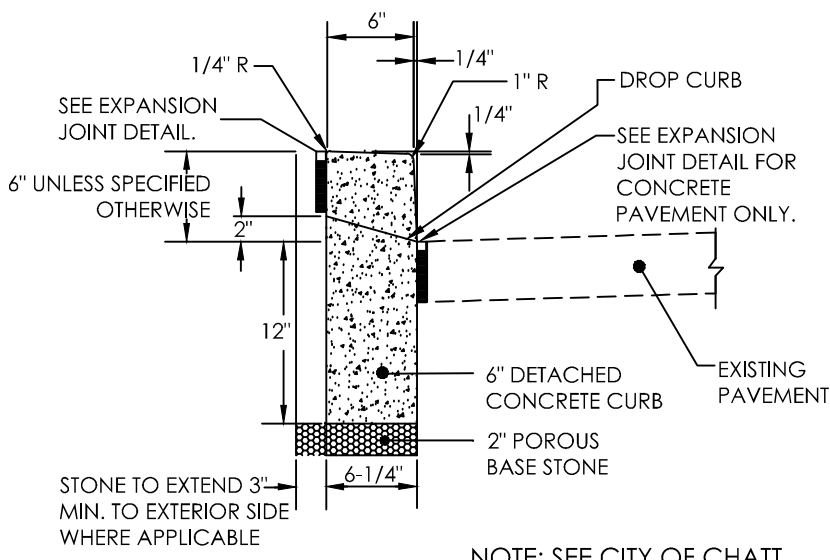
3 PERPENDICULAR CURB RAMP  
C-2 N.T.S.



4 PERPENDICULAR CURB RAMP  
ISOMETRIC VIEW

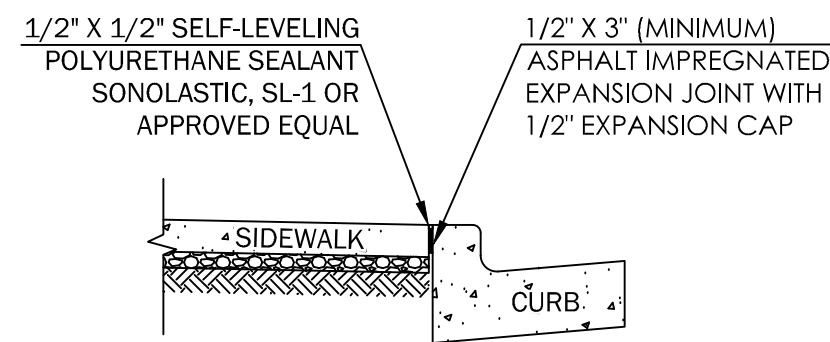


5 CONCRETE CURB AND GUTTER  
C-2 N.T.S.

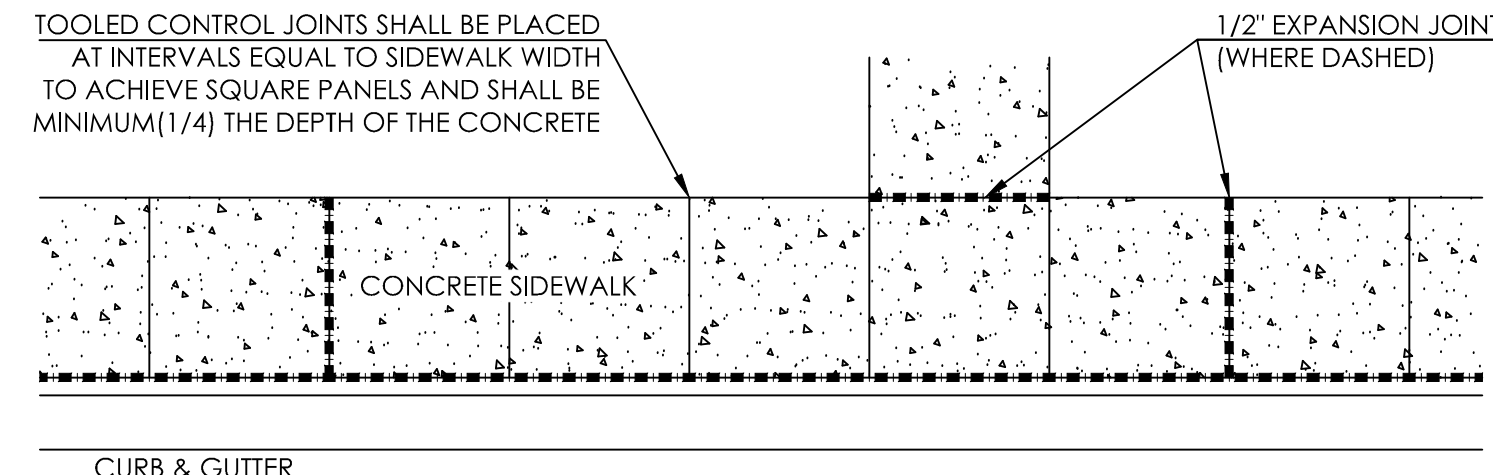


6 DETACHED CONCRETE CURB  
C-2 N.T.S.

- NOTES:
- 1/2" EXPANSION JOINTS SHALL BE PLACED BETWEEN ALL SIDEWALK AND ABUTTING BUILDINGS, FIXED OBJECTS, AND CURBS.
  - 1/2" EXPANSION JOINTS IN SIDEWALK SHALL BE PLACED AT INTERVALS 5 TIMES THE SIDEWALK WIDTH, BUT NO GREATER THAN 50 FEET.

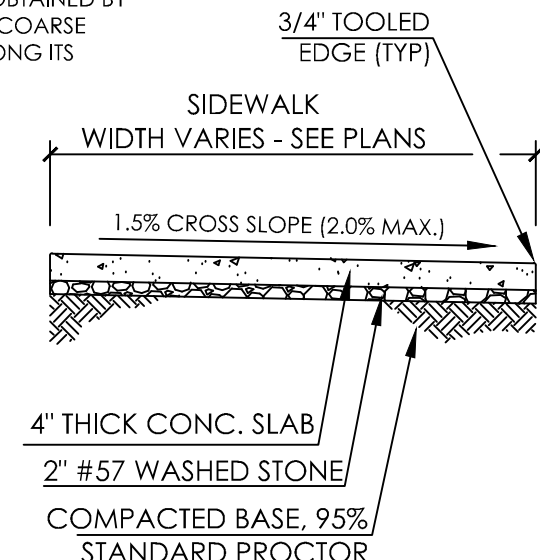


7 EXPANSION JOINT  
SECTION VIEW

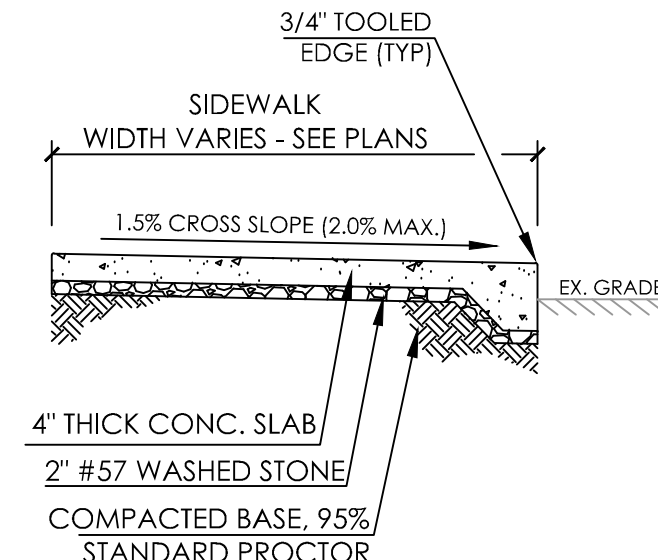


8 EXPANSION JOINTS & CONTROL JOINTS  
PLAN VIEW

NOTE: THE SURFACE TEXTURE SHALL BE THAT OBTAINED BY A TRANSVERSE, COARSE BROOKING ALONG ITS ENTIRE LENGTH.

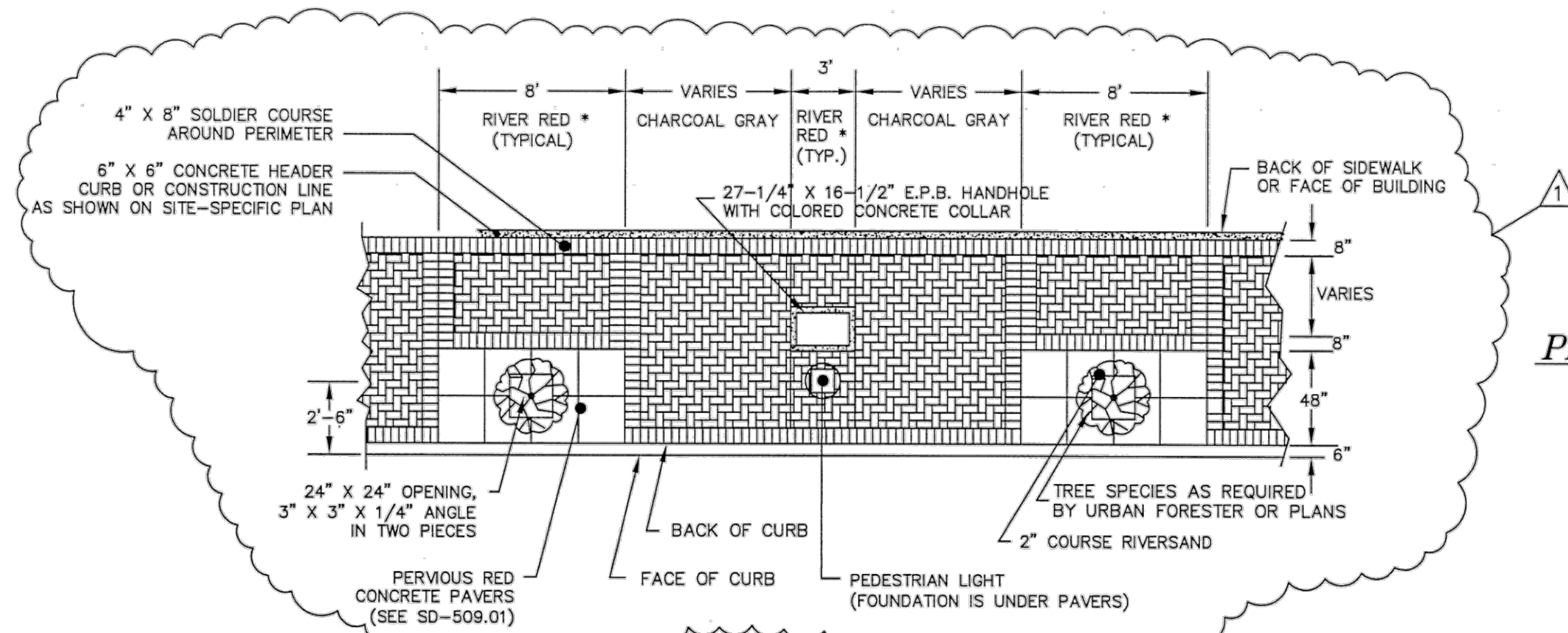


9 STANDARD SIDEWALK

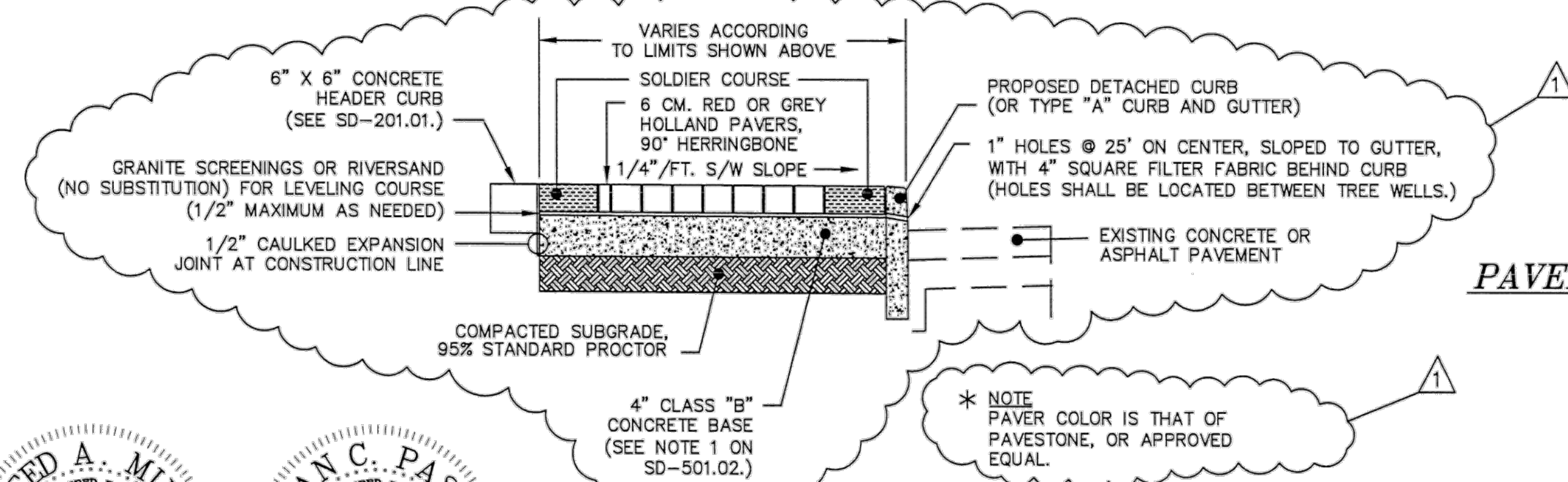


10 SIDEWALK w/ TURNDOWN

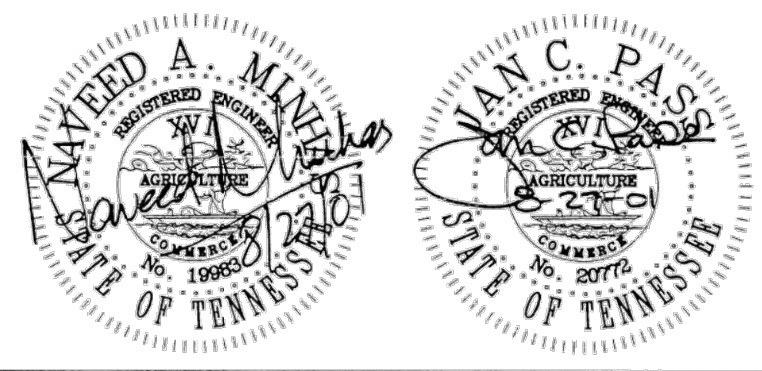
11 CONCRETE SIDEWALK  
C-2 N.T.S.



12 PAVER LAYOUT DETAIL



13 PAVER SIDEWALK DETAIL



CITY OF CHATTANOOGA AND HAMILTON COUNTY		
PAVER LAYOUT		
NO.	REVISIONS AS MARKED OR CLOUDED	DATE
1	REVISIONS AS MARKED OR CLOUDED	8/24/01
0	INITIAL ISSUE	12/10/99
	REVISION	DATE

DATE OF ORIGINAL ISSUE: DECEMBER 10, 1999  
STANDARD NUMBER: SD-501.01



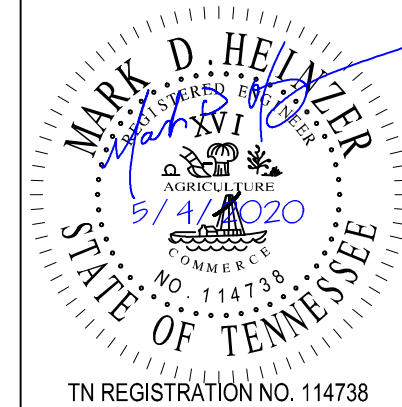
ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

TREMONT AND FRAZIER

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

DETAILS

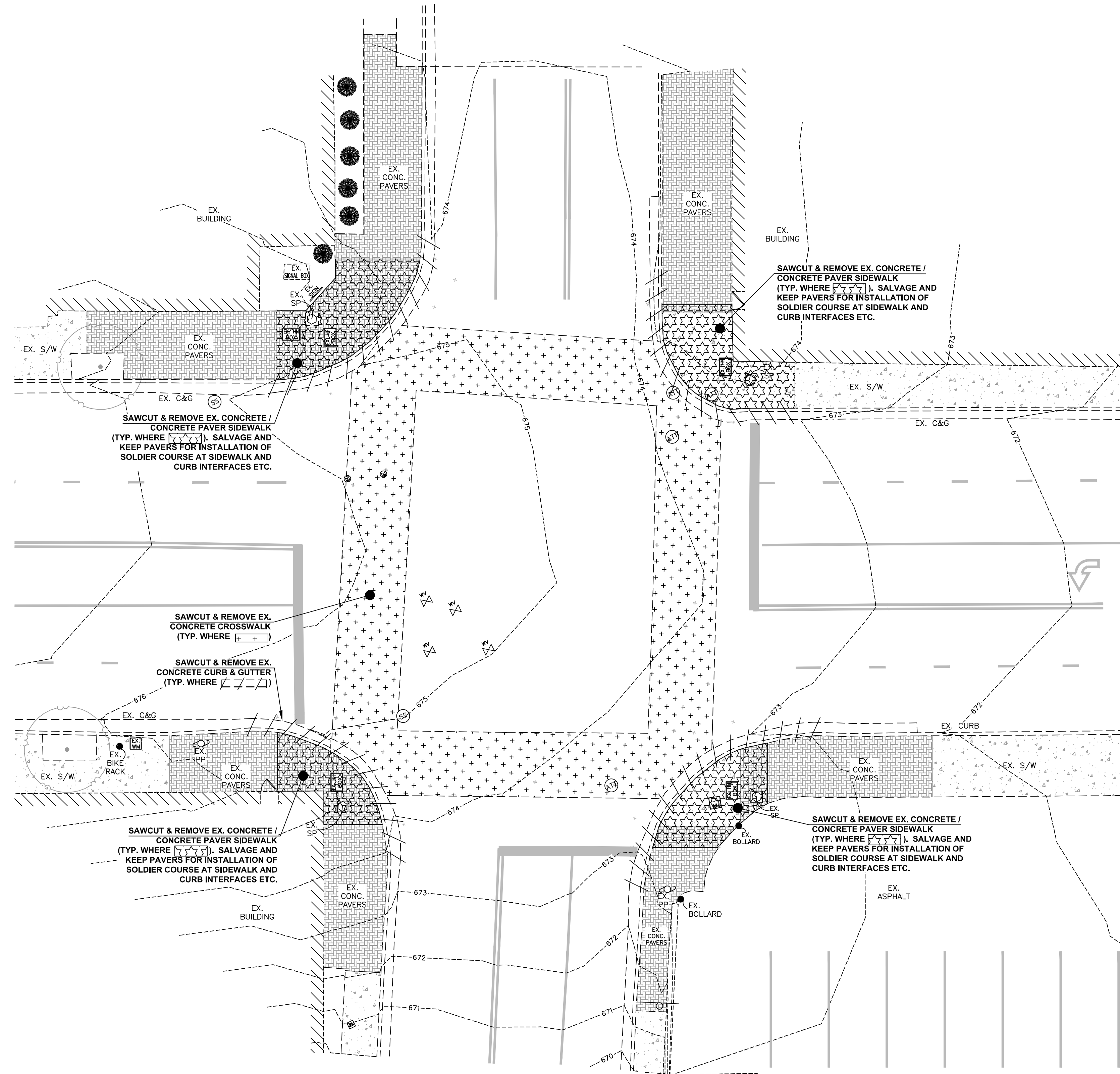
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ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

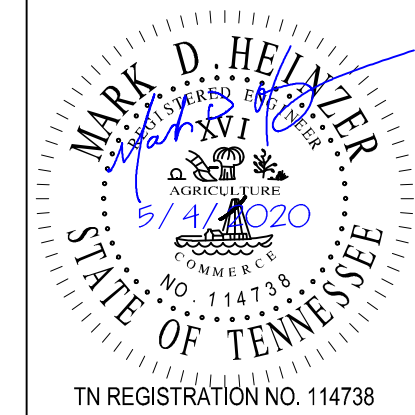
# TREMONT AND FRAZIER

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

## DEMO PLAN

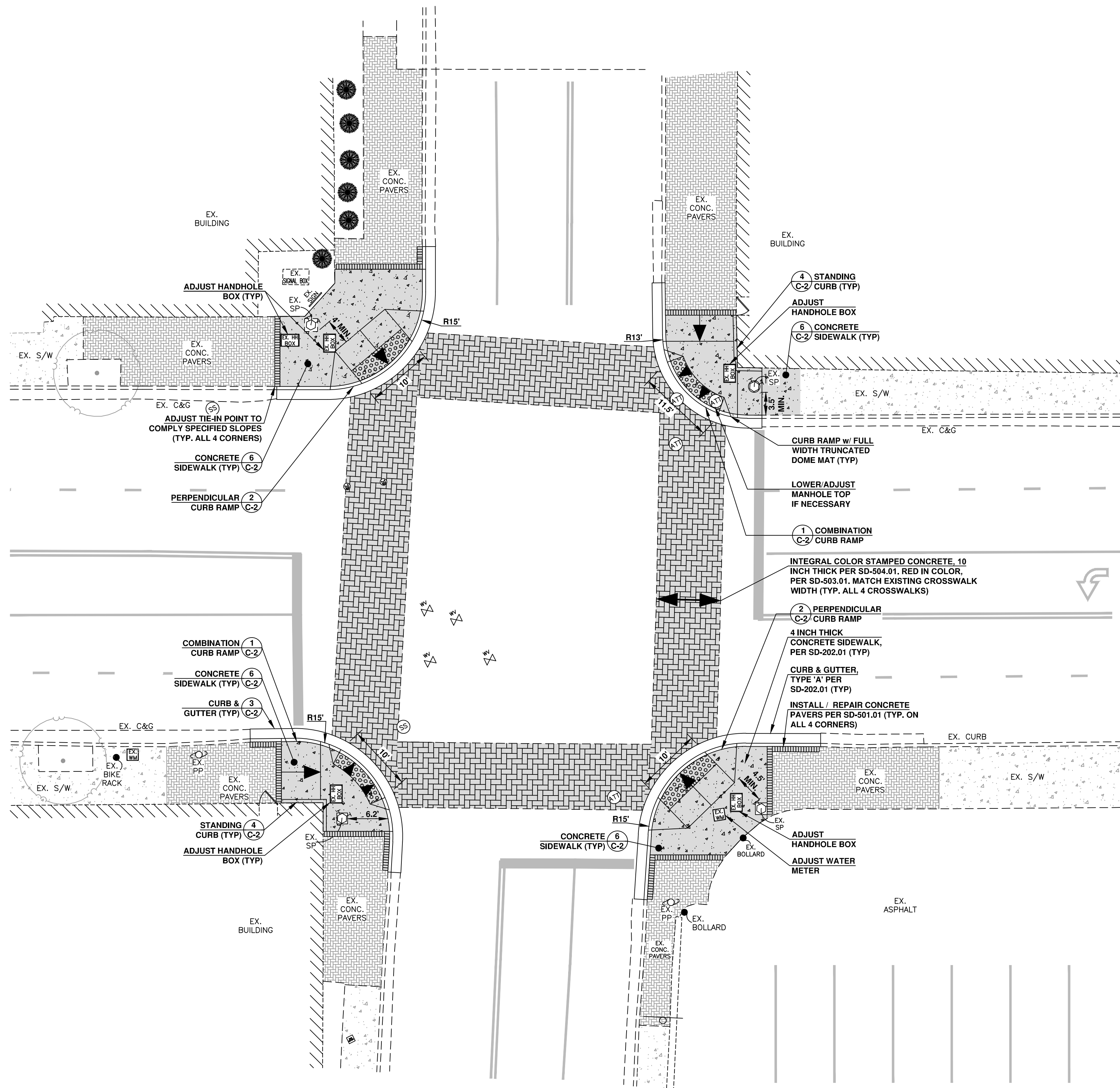
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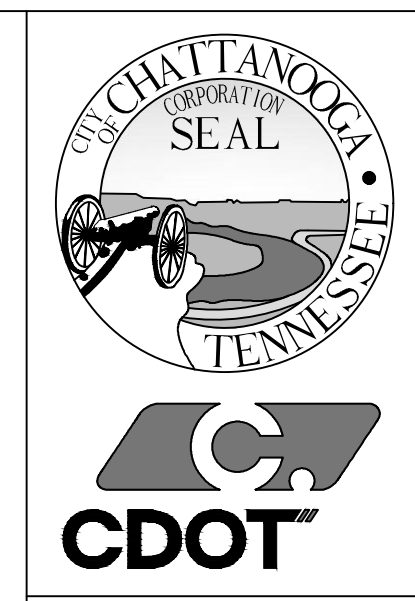


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0 10' 20'  
SCALE: 1"=10'



ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

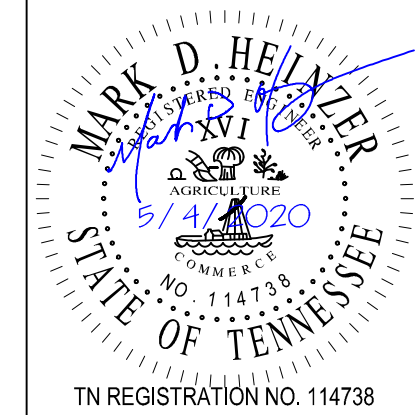
**TREMONT AND FRAZIER**

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

**SITE PLAN**

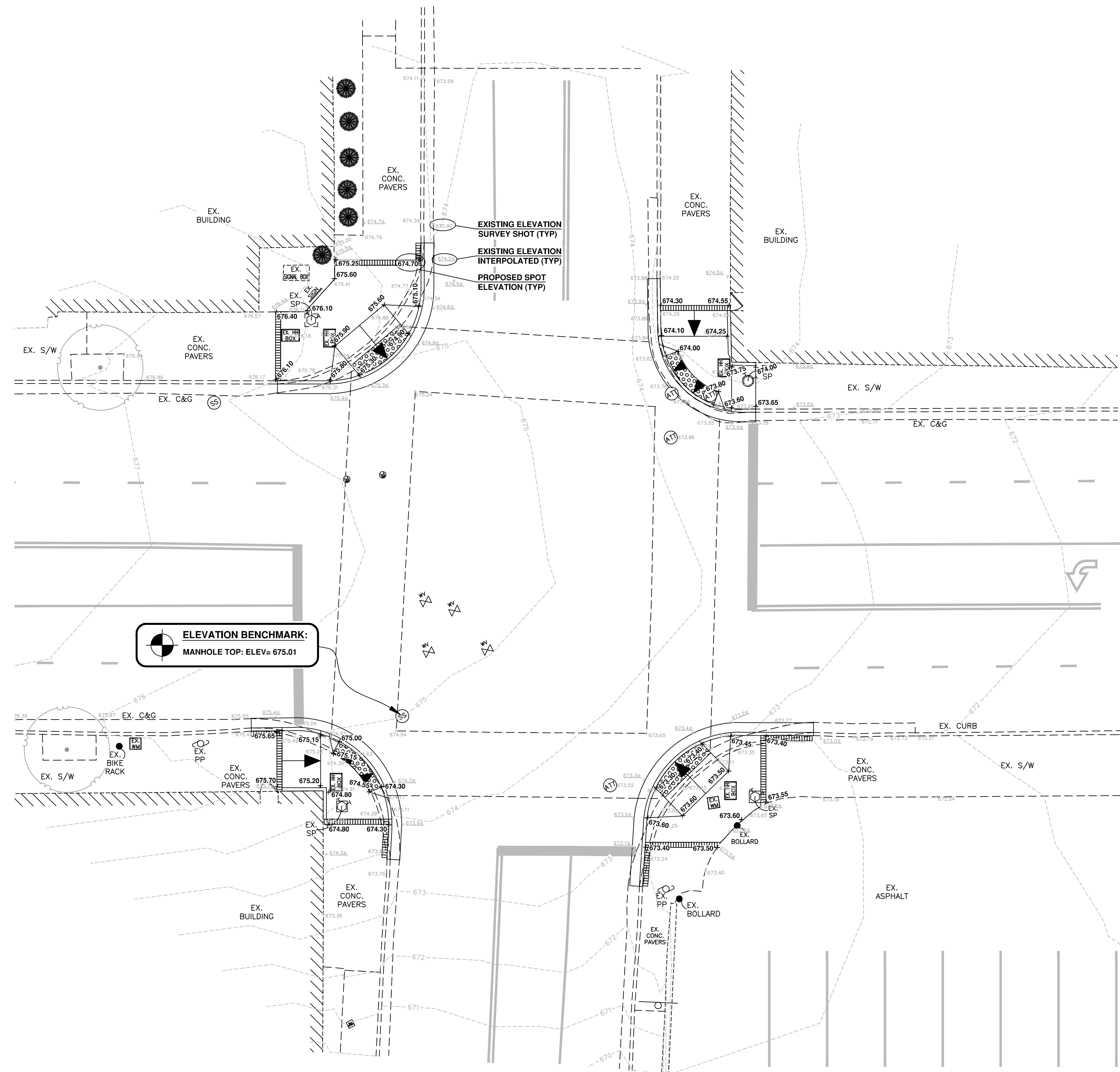
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ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

# TREMONT AND FRAZIER

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

## GRADING PLAN

DATE: 5/4/2020  
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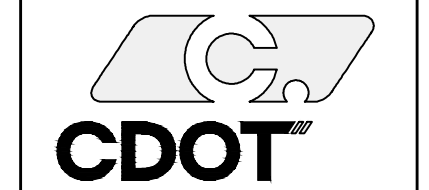
TN REGISTRATION NO. 114738  
**C-5**

# MIDLAND PIKE SIDEWALK

CARUTHERS RD. TO N. MOORE RD.



1250 MARKET STREET, SUITE 3030  
CHATTANOOGA, TENNESSEE 37402  
423.643.5950



ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

**MIDLAND PIKE SIDEWALK**  
CARUTHERS RD. TO N. MOORE RD.  
CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

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**MAYOR**  
**ANDY BERKE**

**CITY COUNCIL**

- DISTRICT 1 - CHIP HENDERSON
- DISTRICT 2 - JERRY MITCHELL, CHAIRPERSON
- DISTRICT 3 - KEN SMITH, VICE-CHAIRPERSON
- DISTRICT 4 - DARRIN LEDFORD
- DISTRICT 5 - RUSSELL GILBERT
- DISTRICT 6 - CAROL B. BERZ
- DISTRICT 7 - ERSKINE OGLESBY JR
- DISTRICT 8 - ANTHONY BYRD
- DISTRICT 9 - DEMETRUS COONROD

**Mark D. Heinzer**  
MARK D. HEINZER, P.E.  
CITY TRANSPORTATION ENGINEER  
STATE LICENSE NO. 114738

Digitally signed by Mark D. Heinzer  
DN: cn=Mark D. Heinzer, o=City of Chattanooga,  
ou,email=heinzer@chattanooga.gov, c=US  
Date: 2020.05.04 15:52:36 -0400

DATE

TOPOGRAPHIC SURVEY COMPLETED BY: CITY OF CHATTANOOGA,  
DATE: 4/24/2019.  
BOUNDARY SURVEY COMPLETED BY: GIS DEPARTMENT

Total Disturbed Area: \_\_\_\_\_ 0.19± acres

**TITLE**

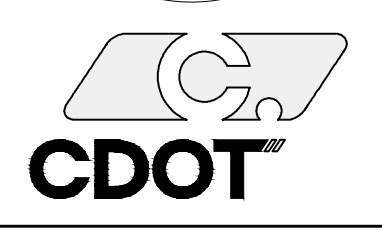
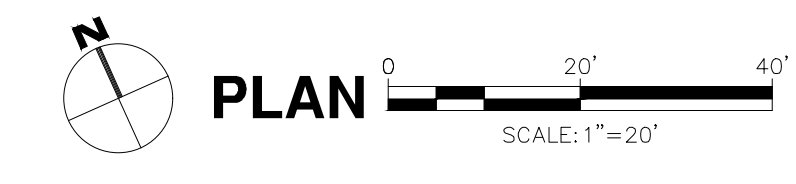
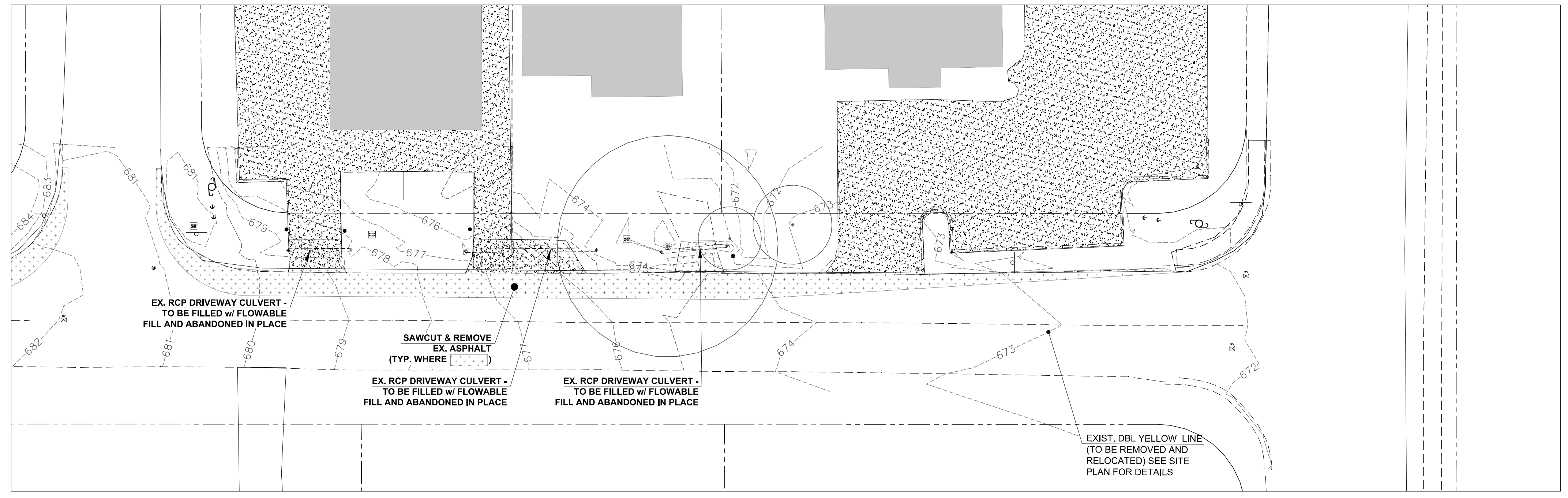
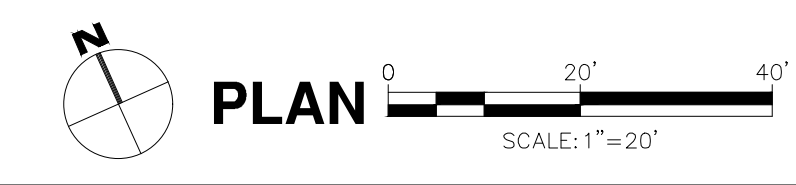
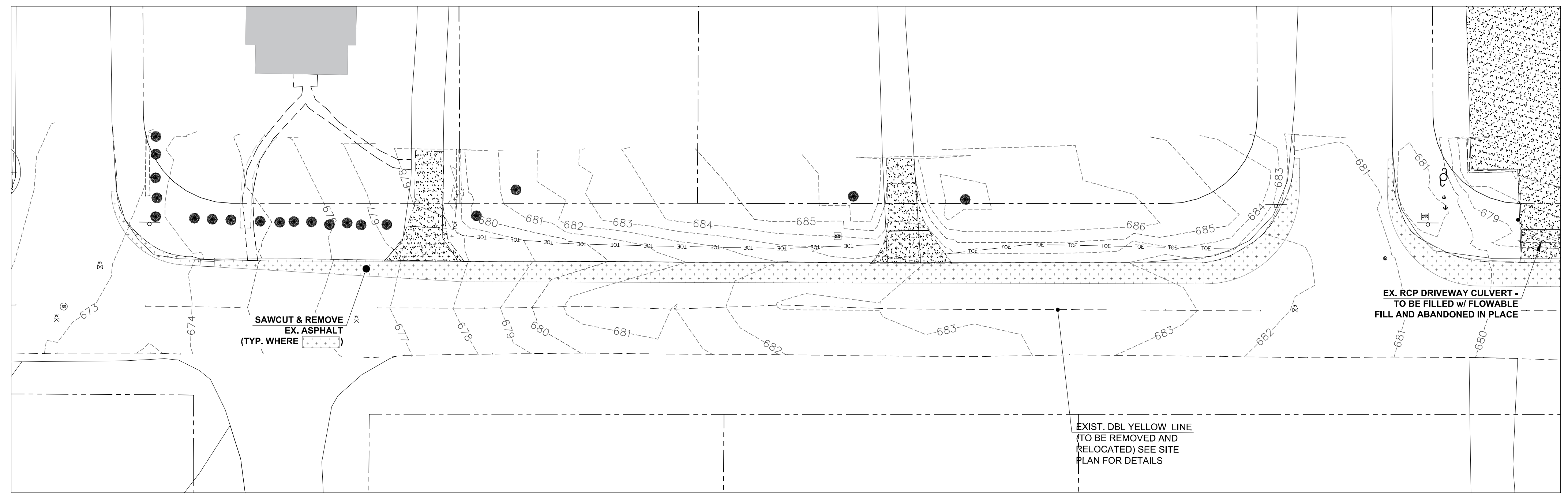
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NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SANITARY SEWER & STORM SEWER (INCLUDING INVERTS), ELECTRIC, FIBER, CABLE, ETC. THESE PLANS DO NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES.

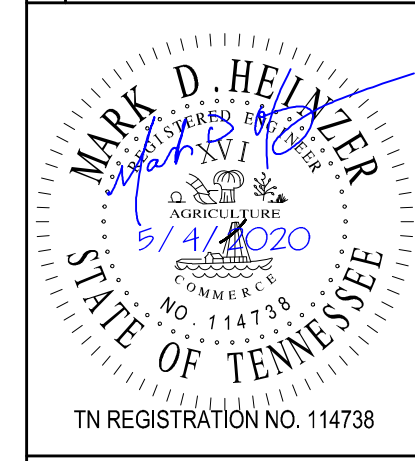


ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

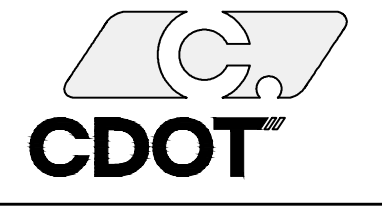
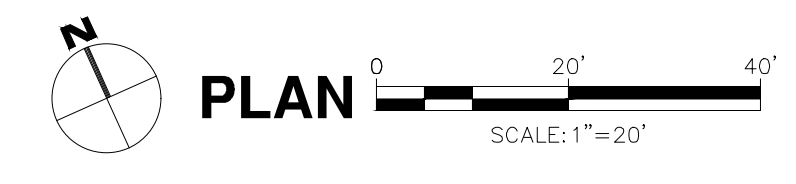
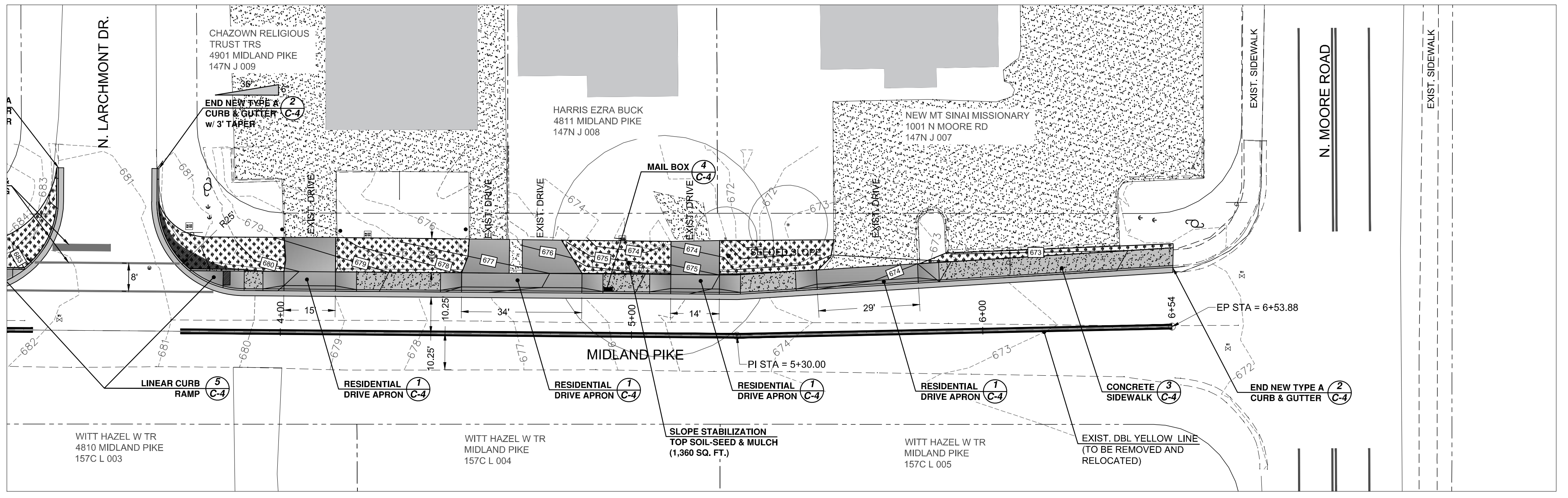
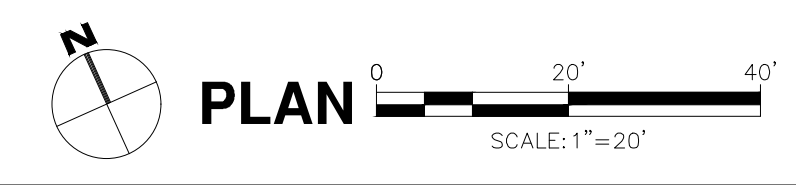
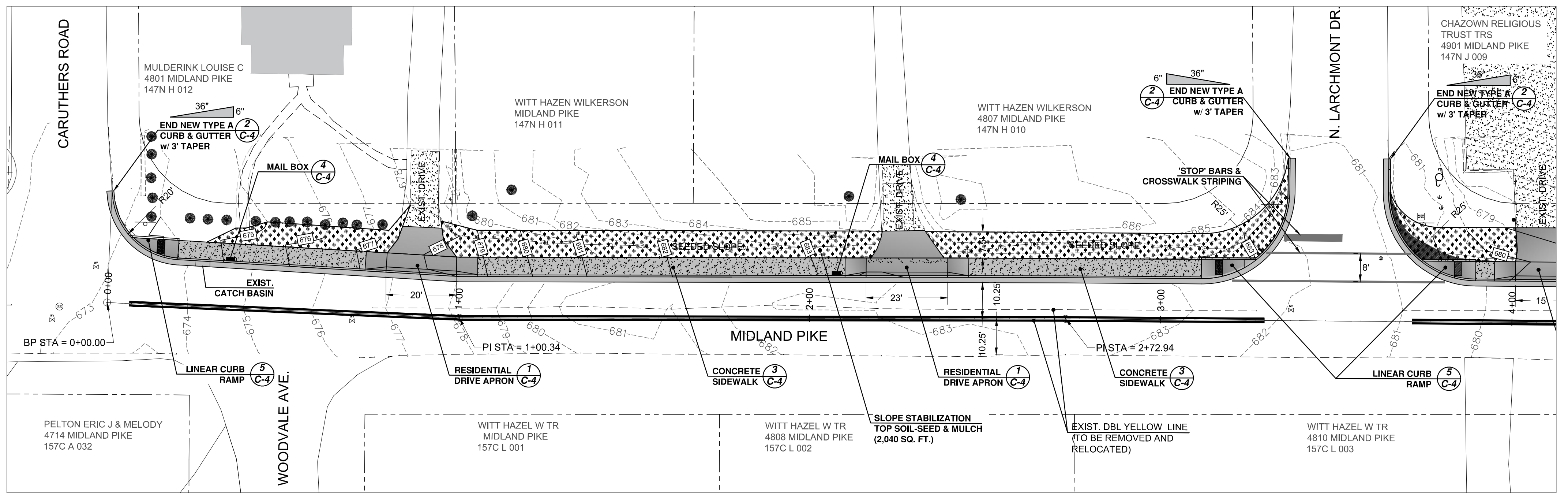
**MIDLAND PIKE SIDEWALK**  
CARUTHERS RD. TO N. MOORE RD.  
CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

**DEMO PLAN**

DATE:	5/4/2020
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NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SANITARY SEWER & STORM SEWER (INCLUDING INVERTS), ELECTRIC, FIBER, CABLE, ETC. THESE PLANS DO NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES.

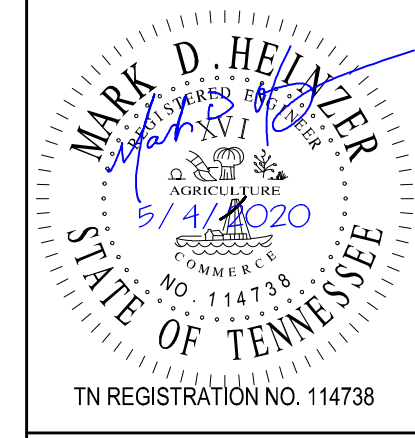


ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

**MIDLAND PIKE SIDEWALK**  
CARUTHERS RD. TO N. MOORE RD.  
CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

**SITE PLAN**

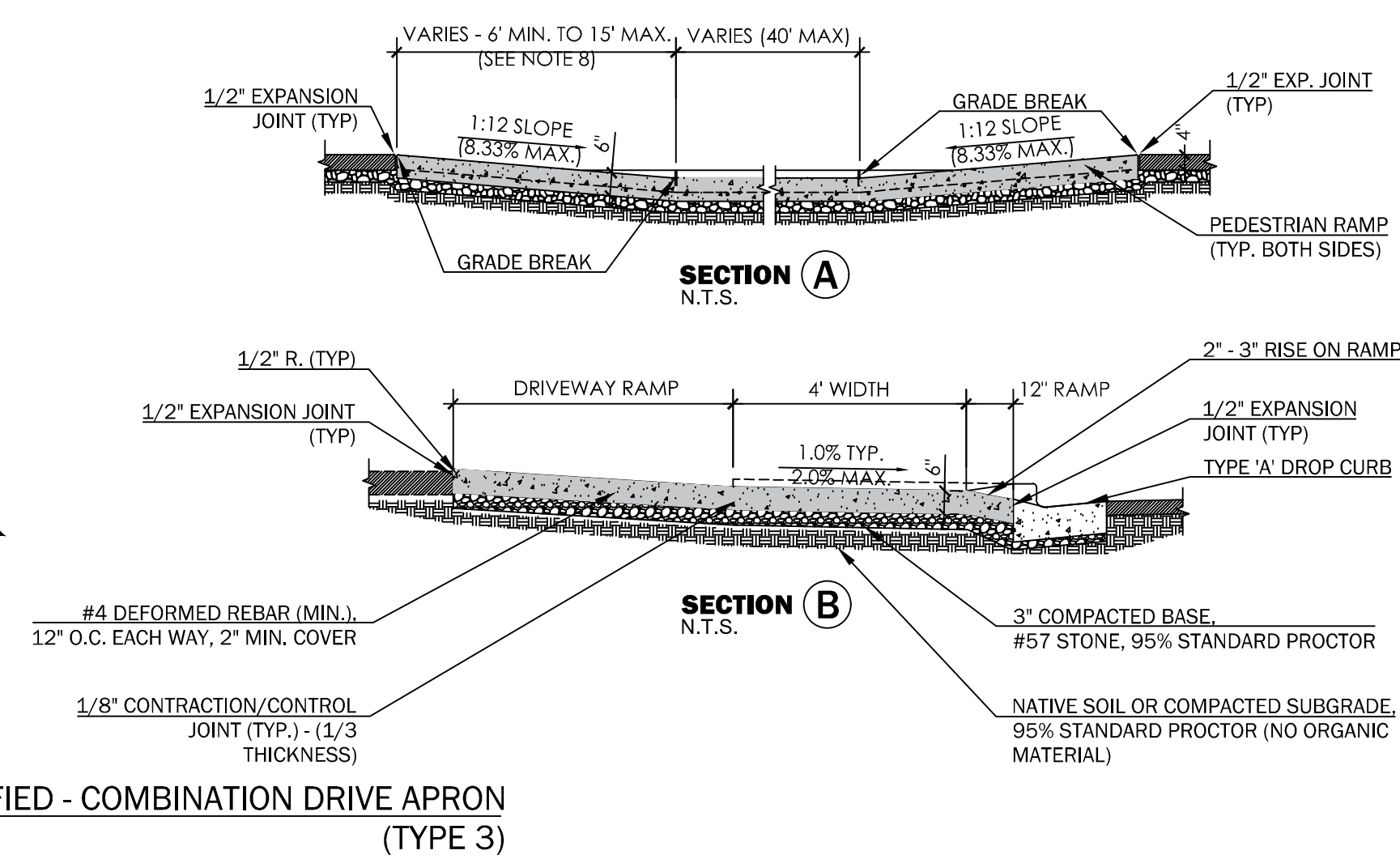
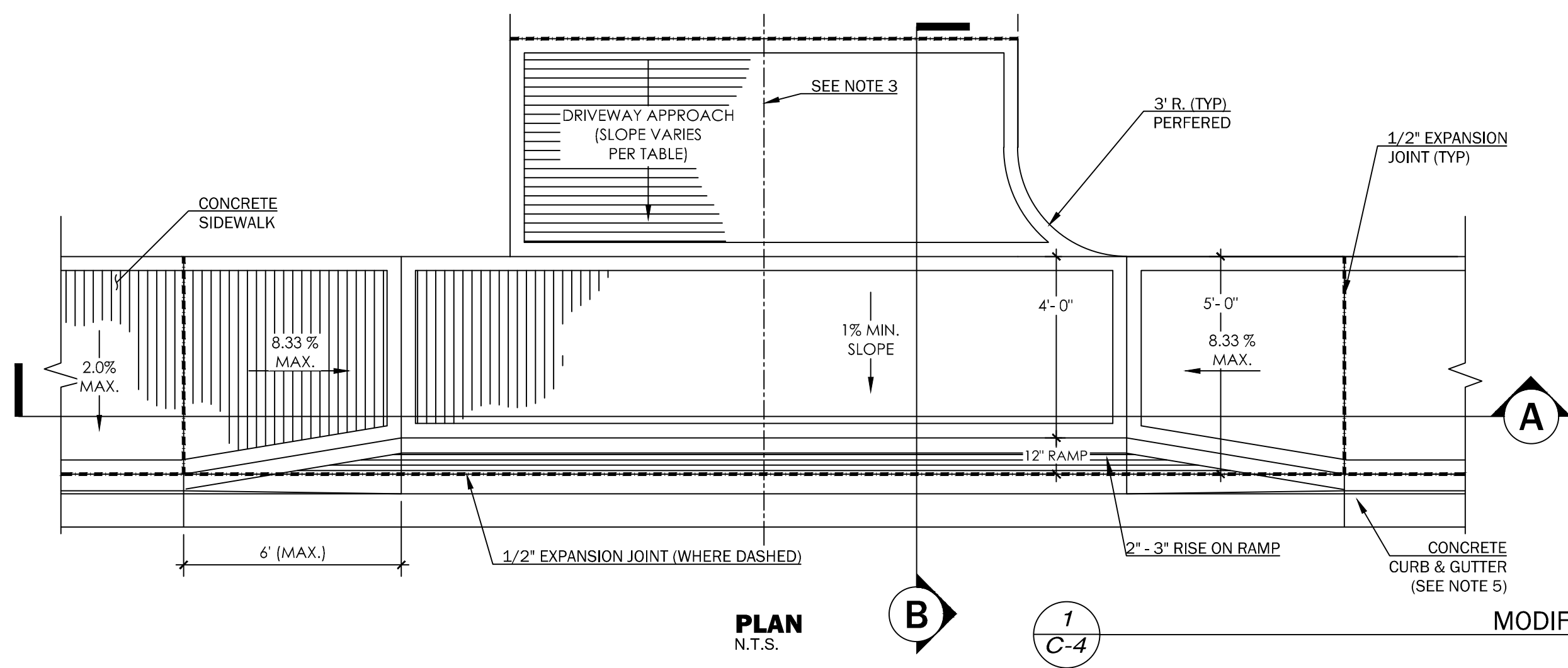
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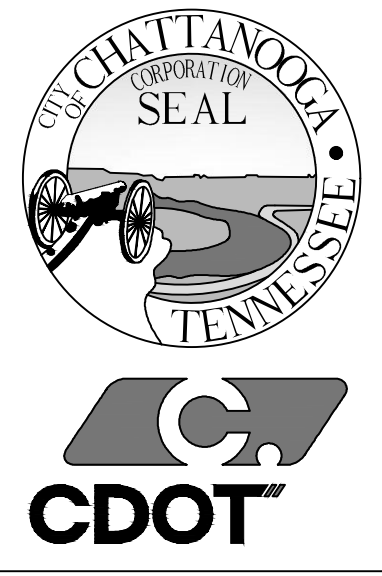
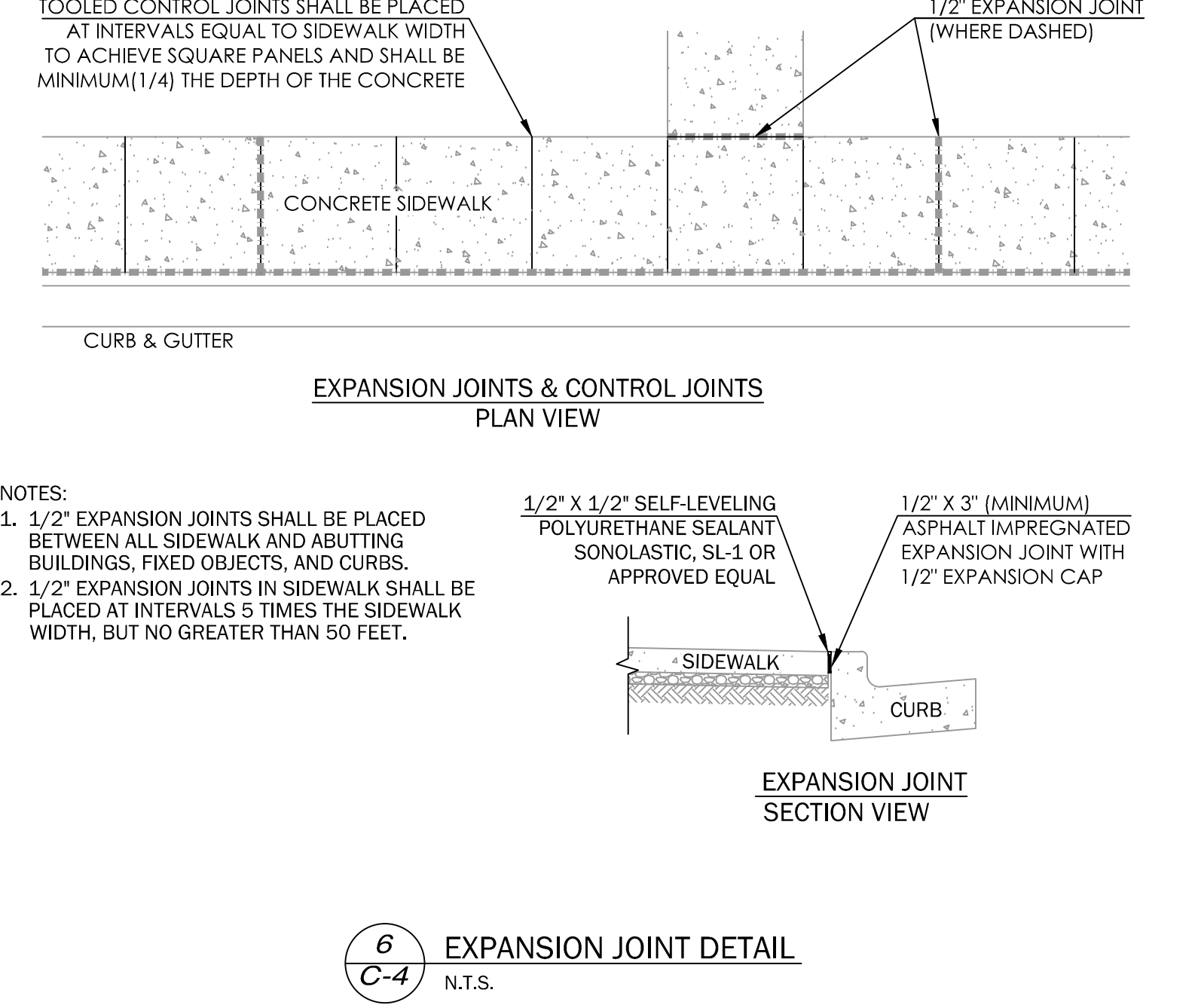
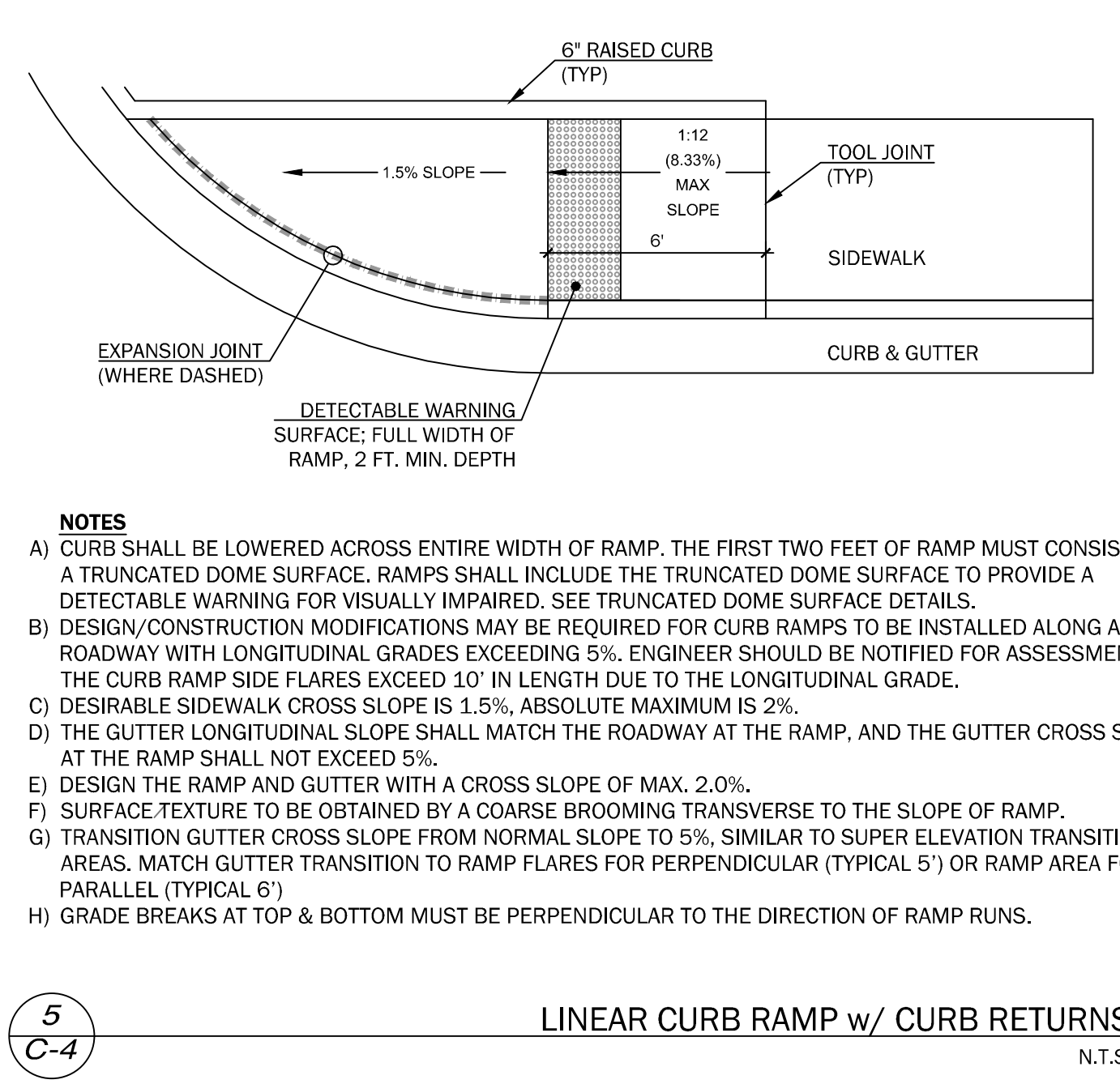
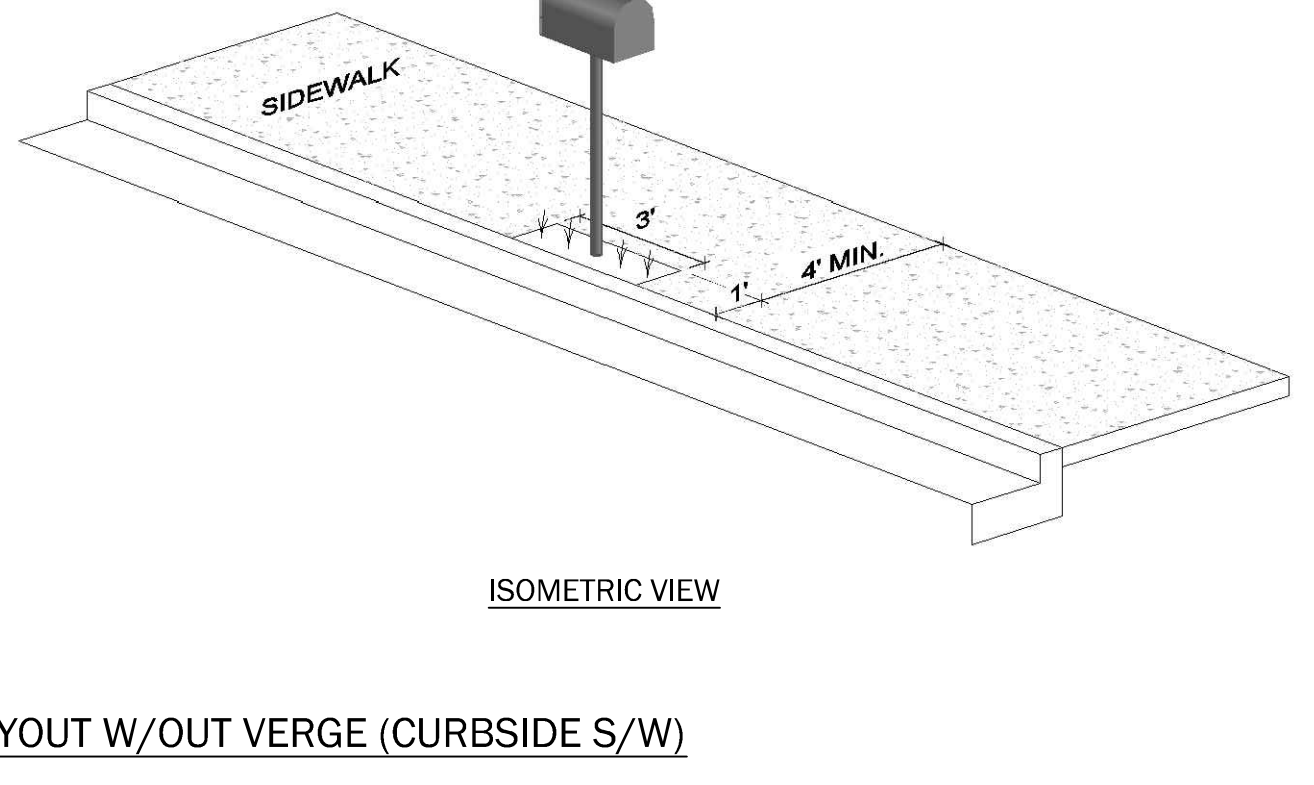
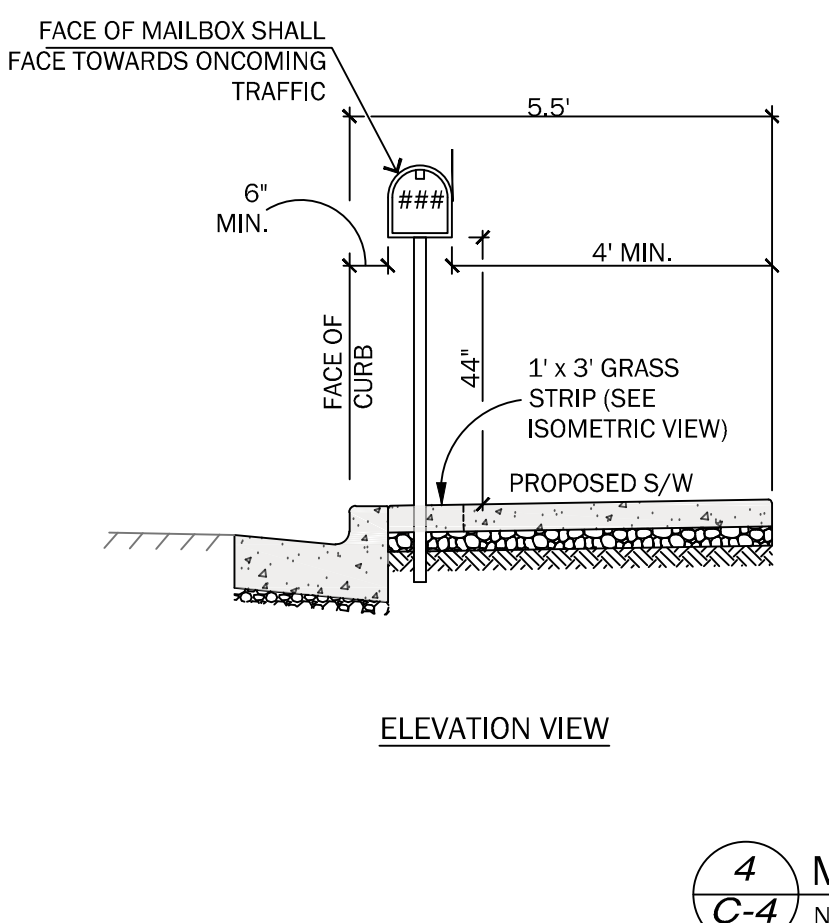
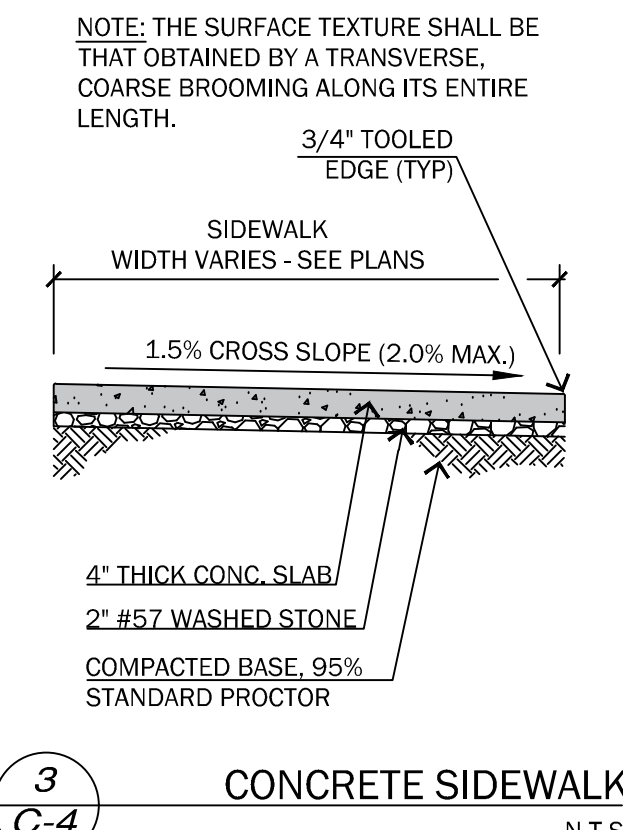
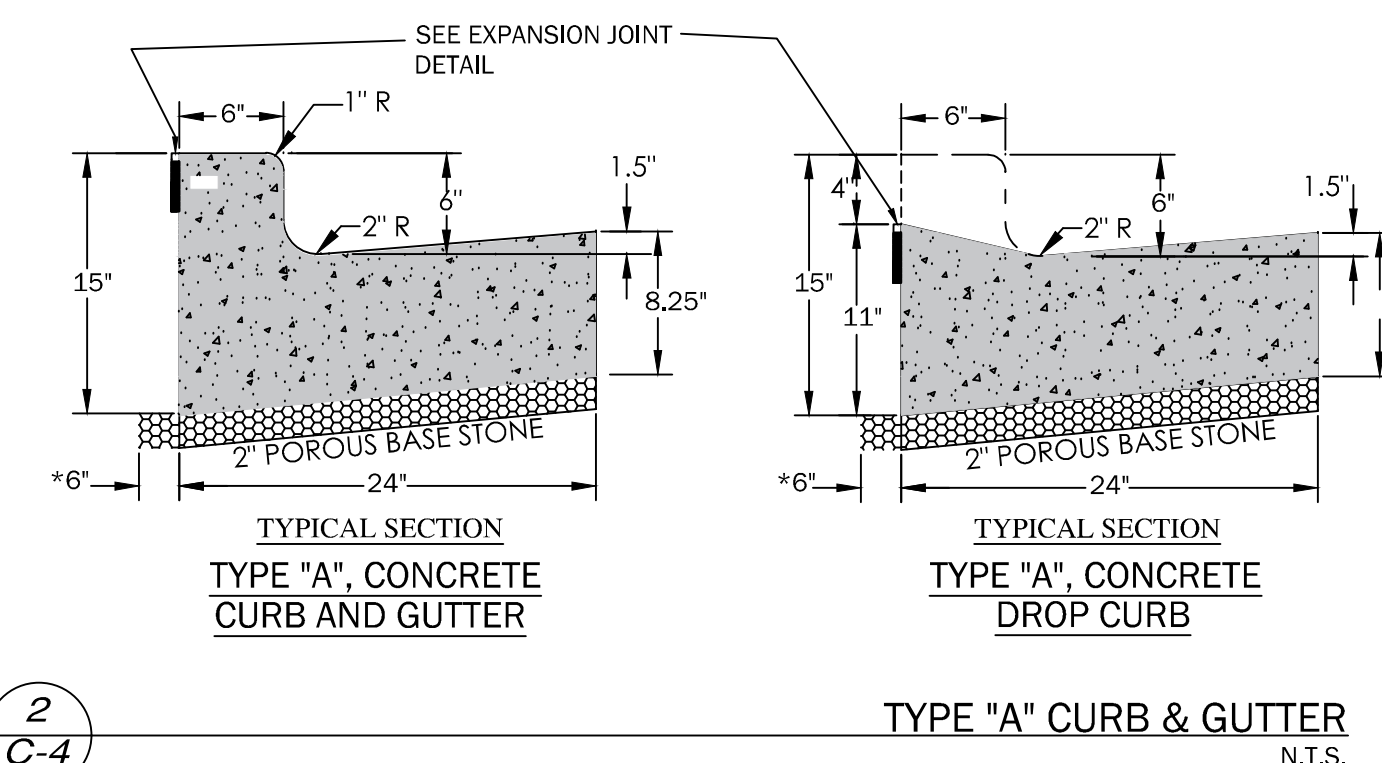
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**C-3**

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- NOTES**
- The normal gutter line profile shall be maintained through the area of the ramp.
  - A full-depth expansion joint shall be constructed along the driveway centerline whenever its width exceeds 24-feet. Where driveways exceed this width, expansion joints should be equally spaced (24-foot maximum) and constructed parallel with the centerline.
  - Refer to SD-205 for sidewalk details.
  - Avoid placing drainage structures, junction boxes or other obstructions in front of driveway entrances.
  - In locations where a 'Grade Break' has been noted, the finished slope shall be constant free of sags and short grade changes.
  - Dimensions shown are to be used unless otherwise directed by the City Transportation Department.
  - The surface texture of the ramp shall be that obtained by a transverse, coarse brooming of the entire slope of the ramp.
  - The surface texture of the sidewalk shall be that obtained by a transverse, coarse brooming along its entire length.
  - Reinforcement: #4 deformed rebars (minimum) twelve inches (12") O.C. ea. way.



ADMINISTRATOR:  
BLYTHE BAILEY

CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

**MIDLAND PIKE SIDEWALK**

CARUTHERS RD. TO N. MOORE RD.

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION

1250 MARKET ST., SUITE 3030

CHATTANOOGA, TN 37402

**DETAILS**

DATE:	5/4/2020
DRAWN:	KSK
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# MOSS DRIVE SIDEWALKS

SIDEWALK PROJECT (MOSS DR & WILCOX BLVD)



1250 MARKET STREET, SUITE 3030  
CHATTANOOGA, TENNESSEE 37402  
423.643.5950



ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

MOSS DRIVE SIDEWALKS

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

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**MAYOR**  
**ANDY BERKE**

**CITY COUNCIL**

DISTRICT 1 - CHIP HENDERSON  
DISTRICT 2 - JERRY MITCHELL, CHAIRPERSON  
DISTRICT 3 - KEN SMITH, VICE-CHAIRPERSON  
DISTRICT 4 - DARRIN LEDFORD  
DISTRICT 5 - RUSSELL GILBERT  
DISTRICT 6 - CAROL B. BERZ  
DISTRICT 7 - ERSKINE OGLESBY JR  
DISTRICT 8 - ANTHONY BYRD  
DISTRICT 9 - DEMETRUS COONROD

MARK D. HEINZER, P.E. \_\_\_\_\_ DATE  
CITY TRANSPORTATION ENGINEER  
STATE LICENSE NO. 114738

TOPOGRAPHIC SURVEY COMPLETED BY: CITY OF CHATTANOOGA,  
DATE: 6/05/2019.

BOUNDARY SURVEY COMPLETED BY: EARTHWORX LLC,  
DATED: 03/13/2020

Total Disturbed Area: \_\_\_\_\_ 0.62 acres

**TITLE**

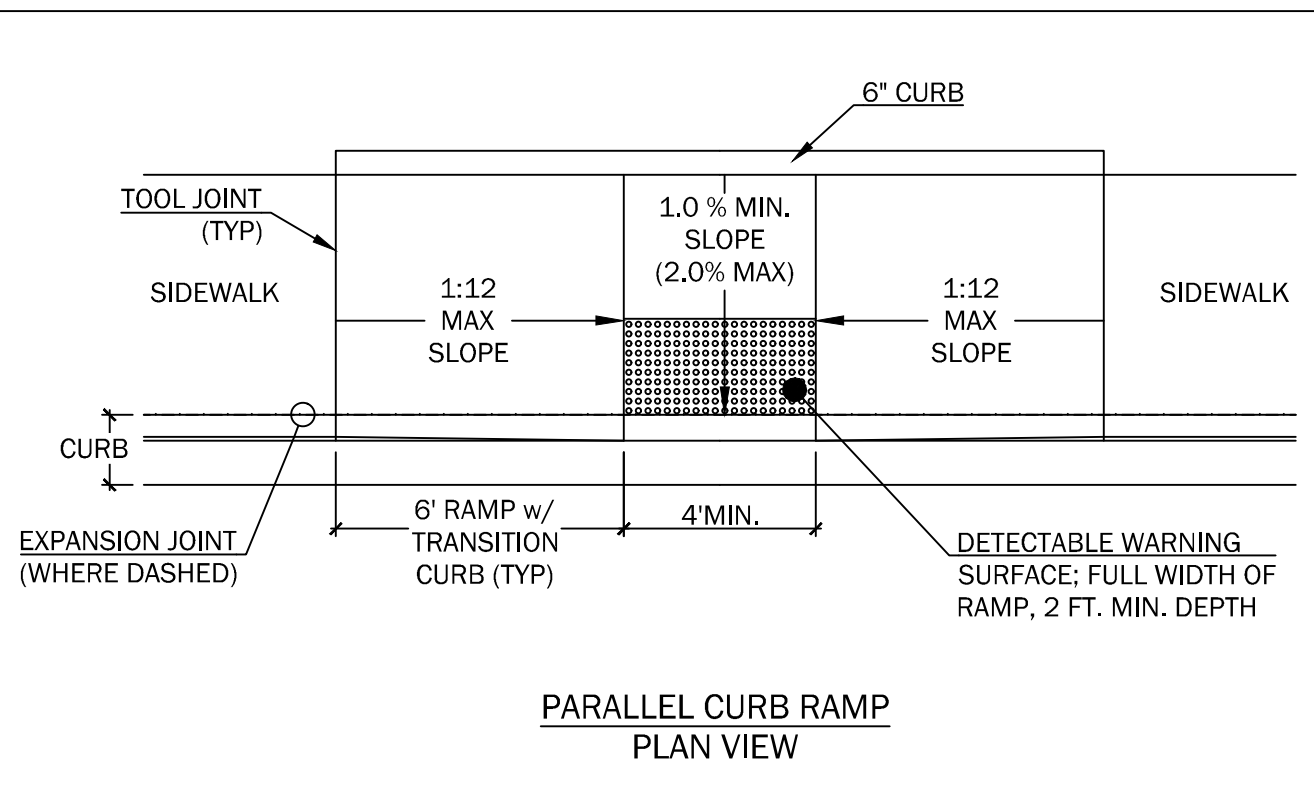
DATE: 5/4/2020  
DRAWN: GMH  
CHECKED: CHAT

REVISIONS

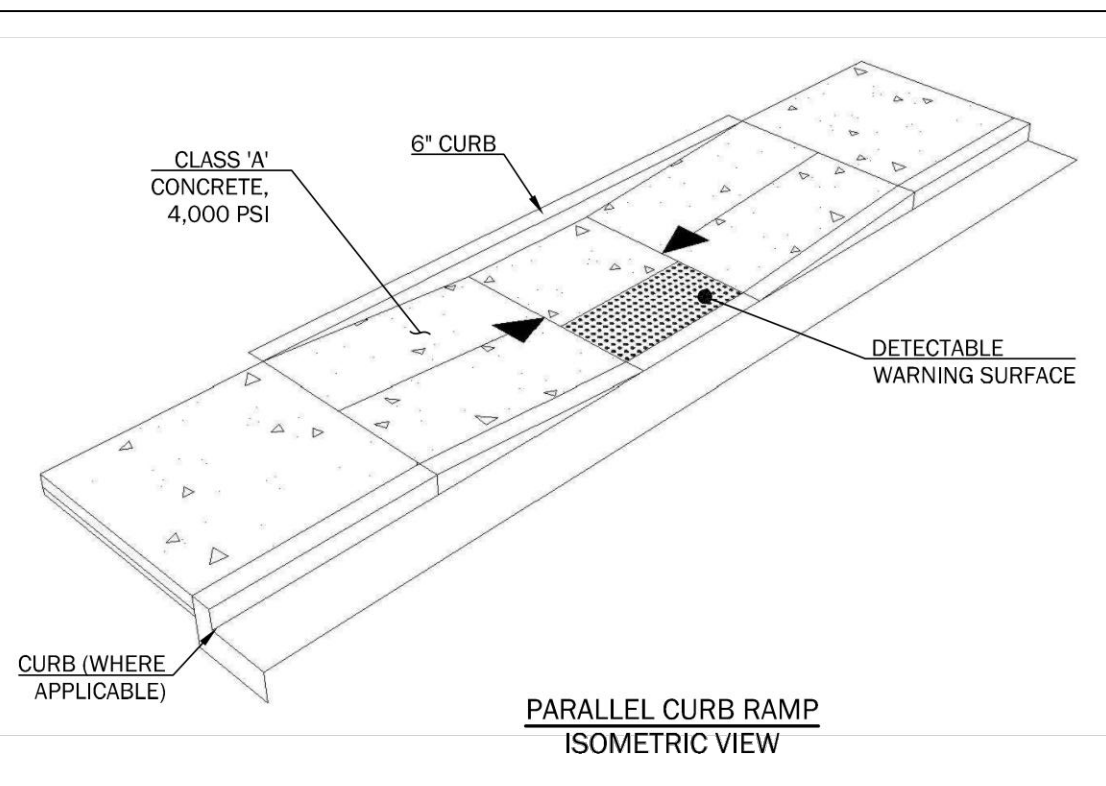
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**C-0**

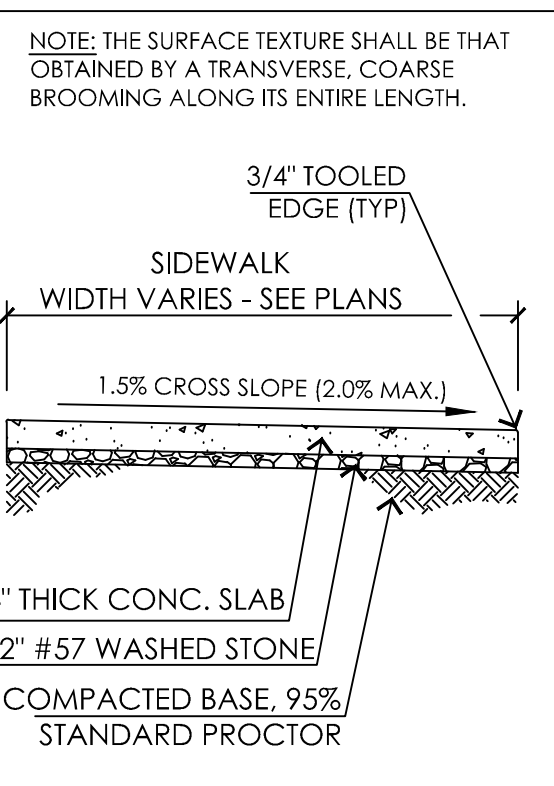




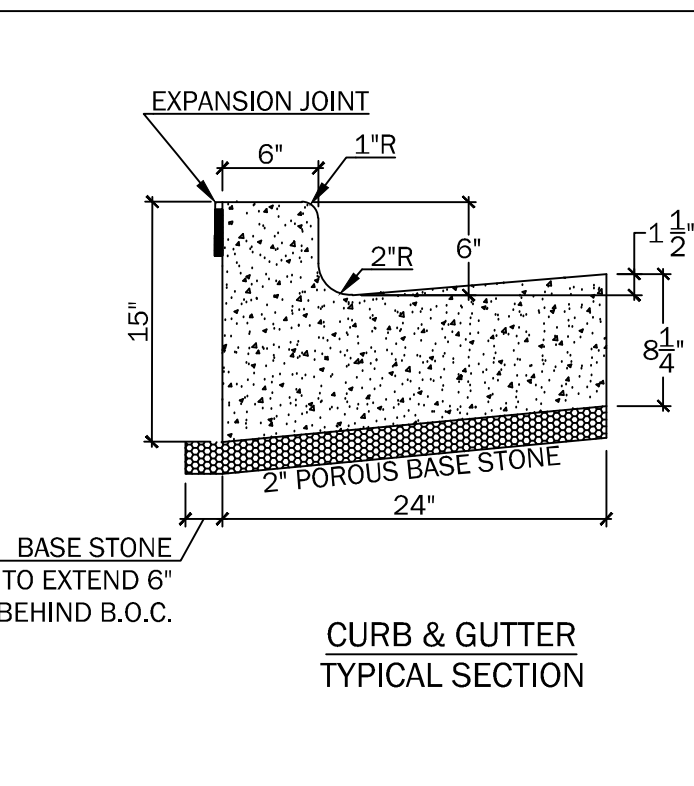
1 PARALLEL CURB RAMP  
PLAN VIEW



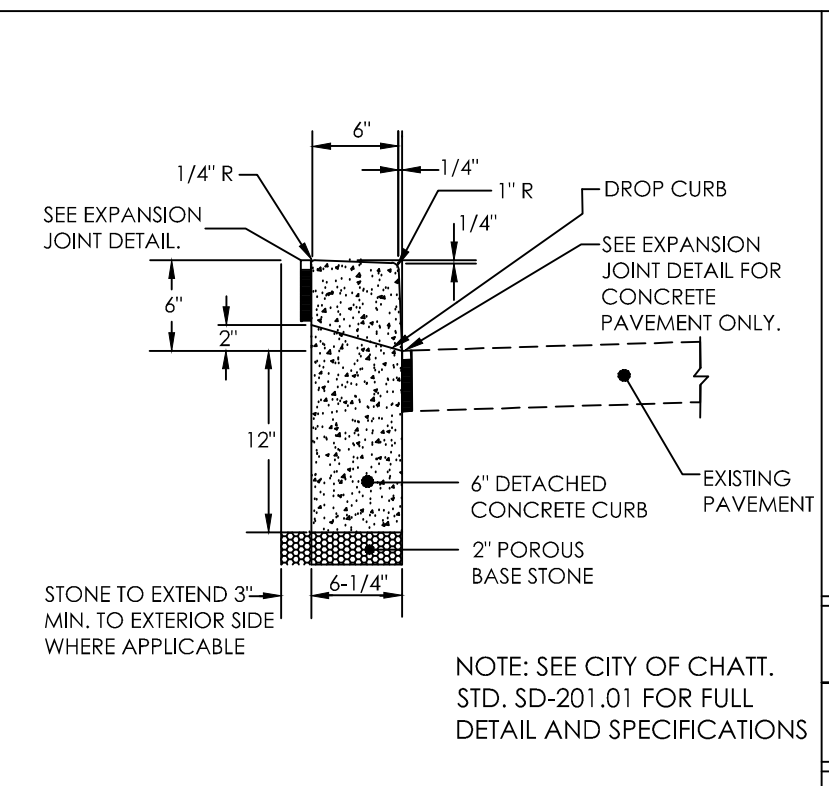
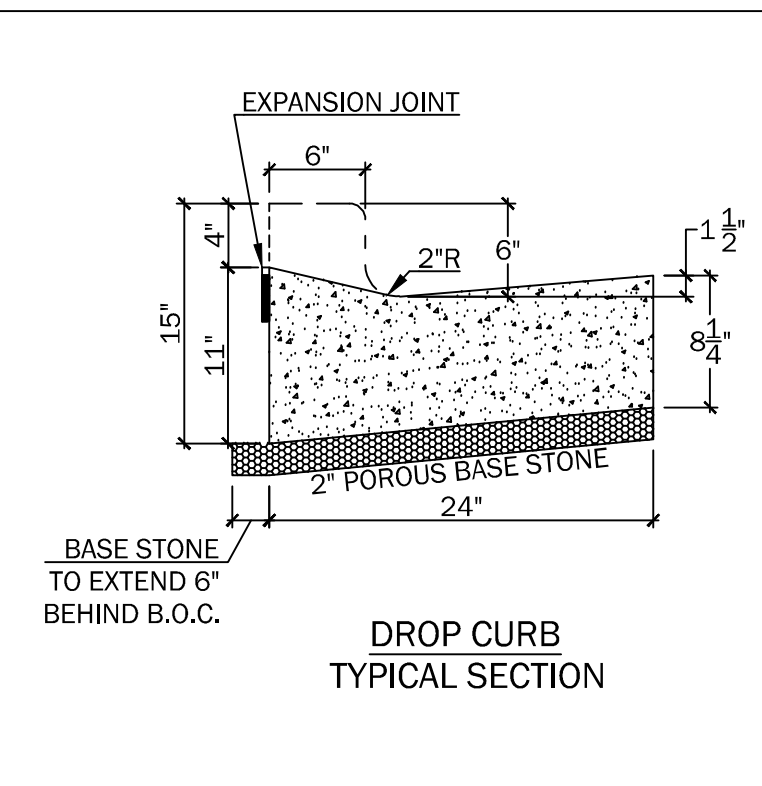
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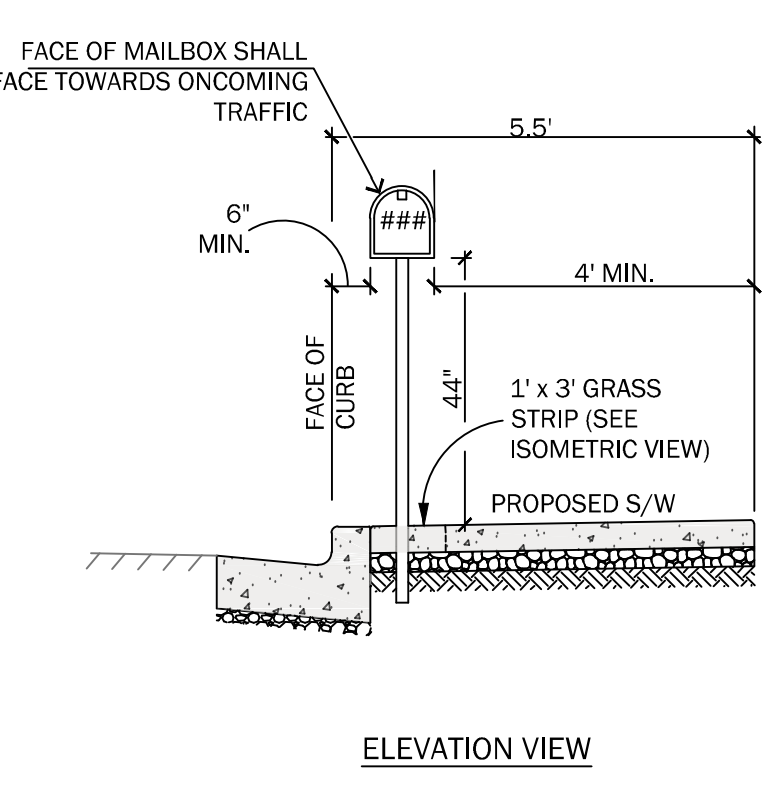
2 CONCRETE SIDEWALK  
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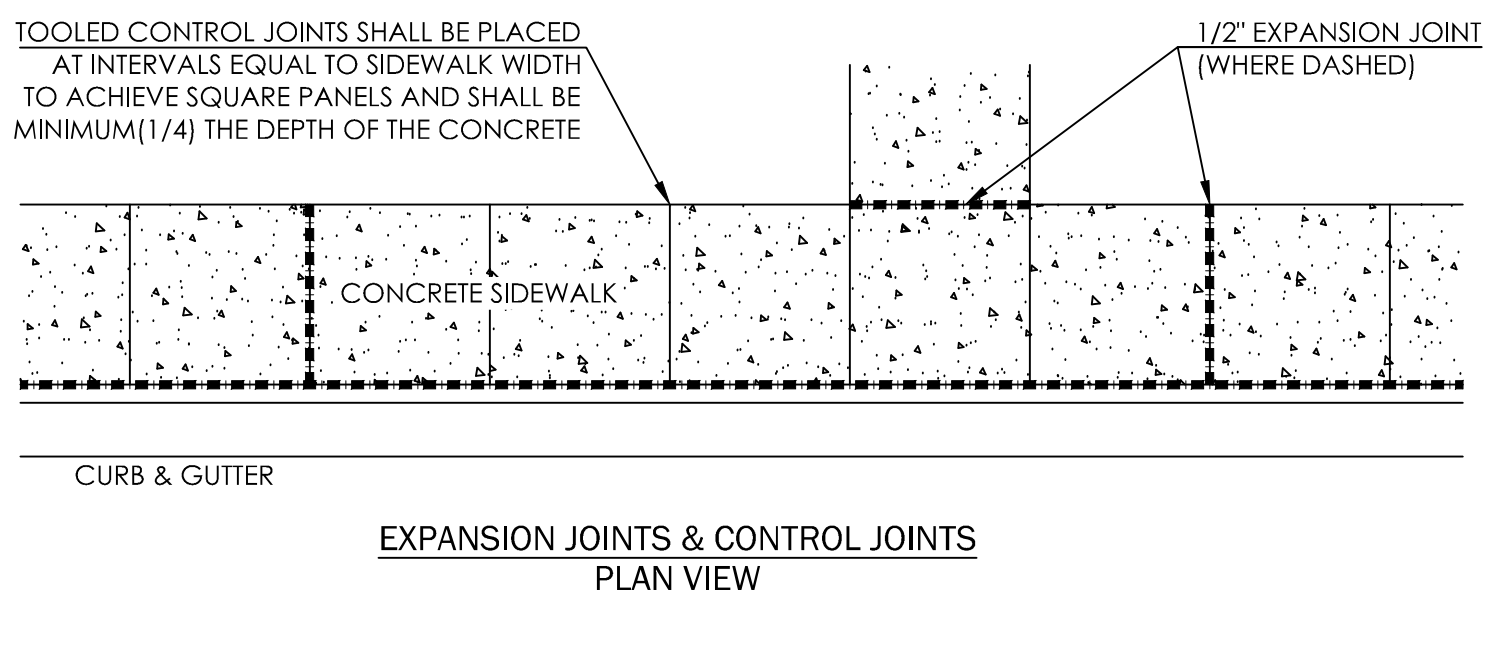
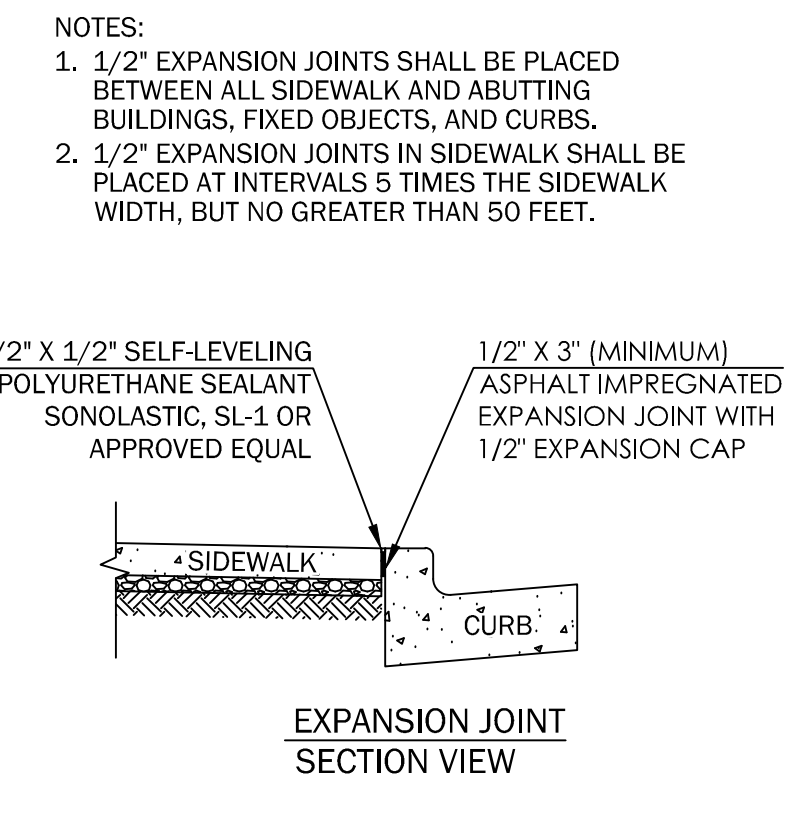
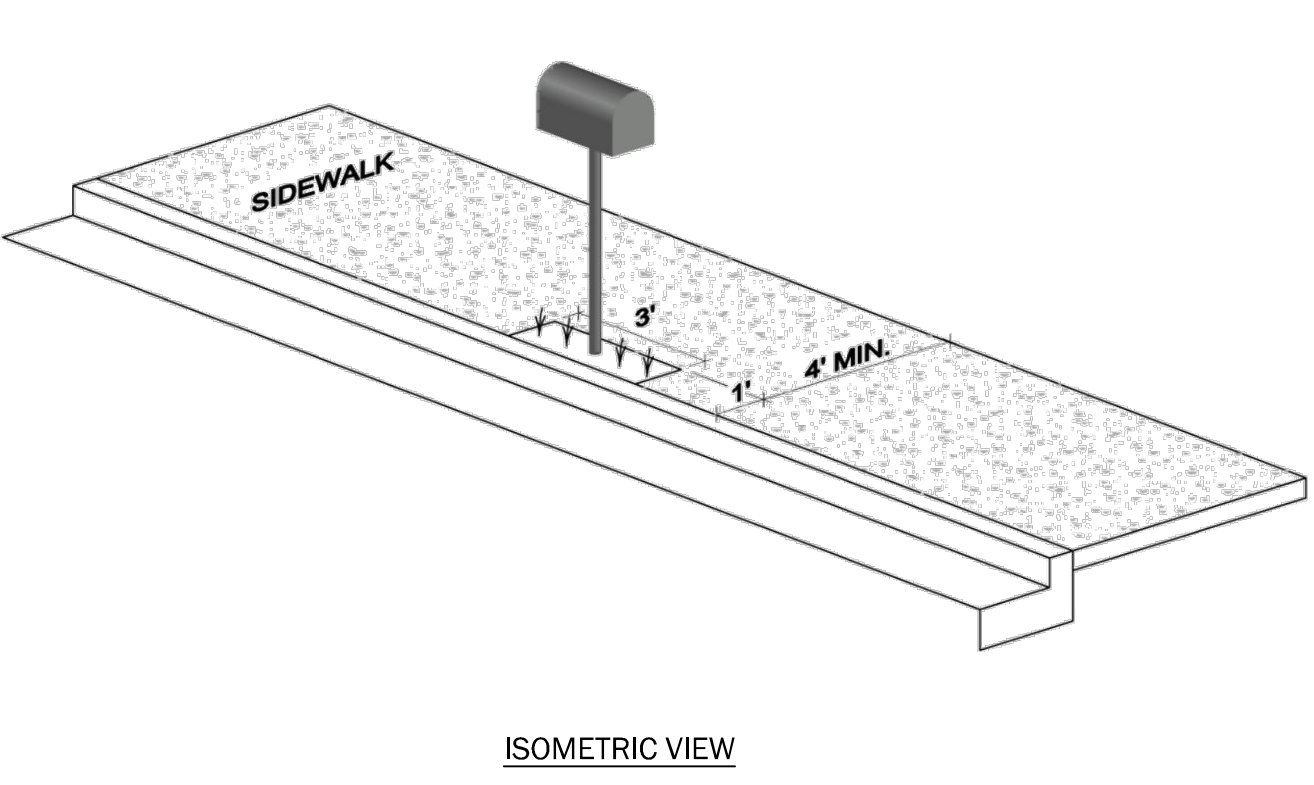
3 CONCRETE CURB AND GUTTER  
N.T.S.



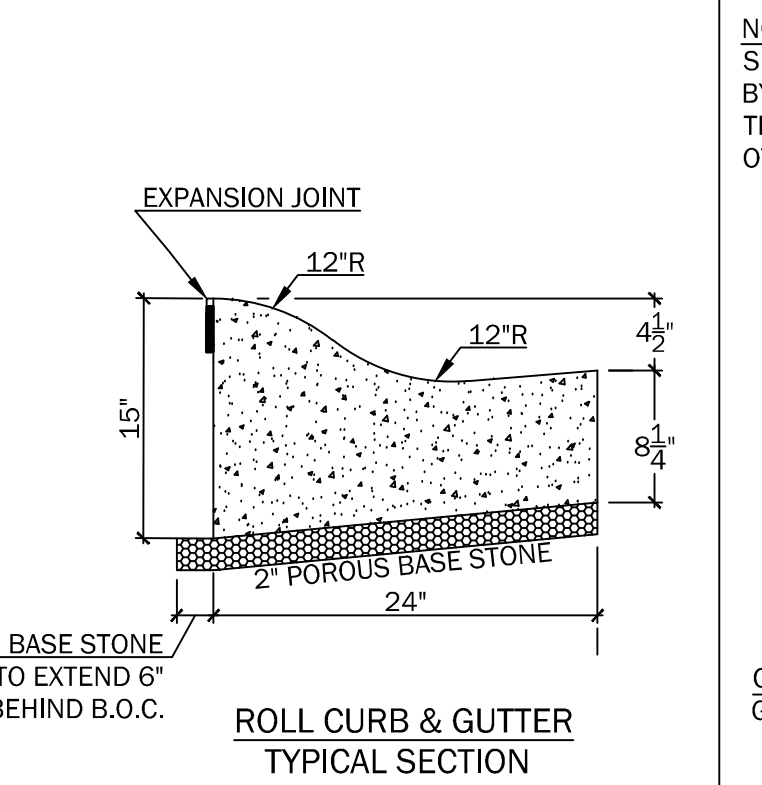
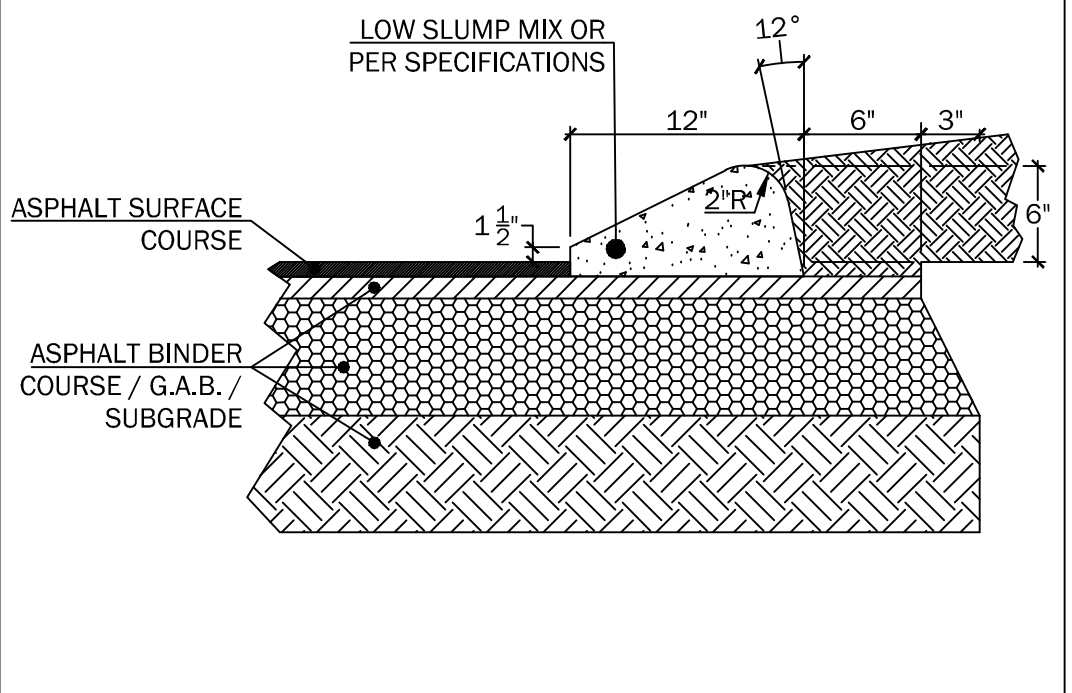
4 6" DETACHED CONCRETE CURB  
N.T.S.



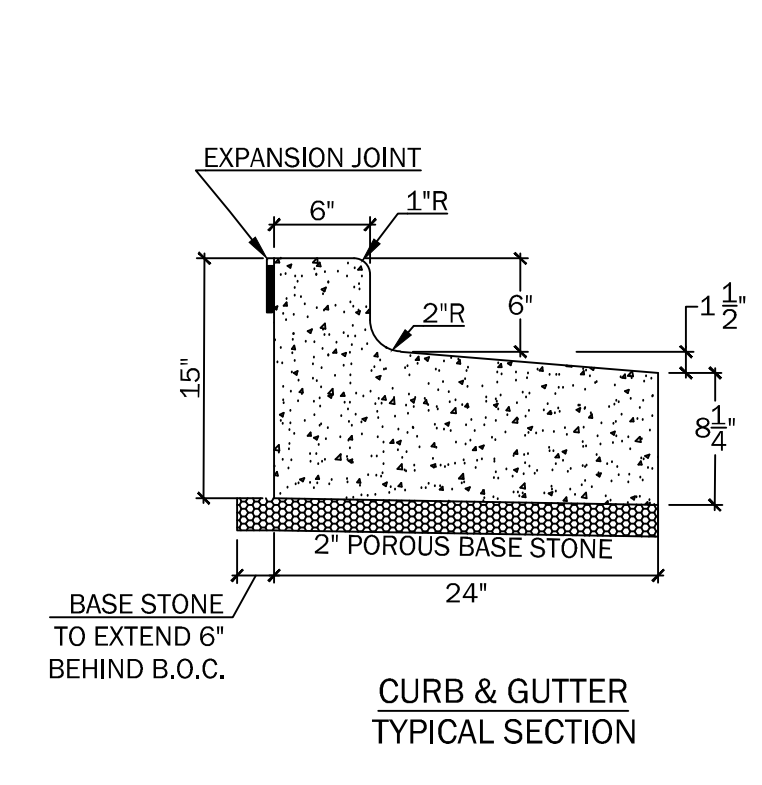
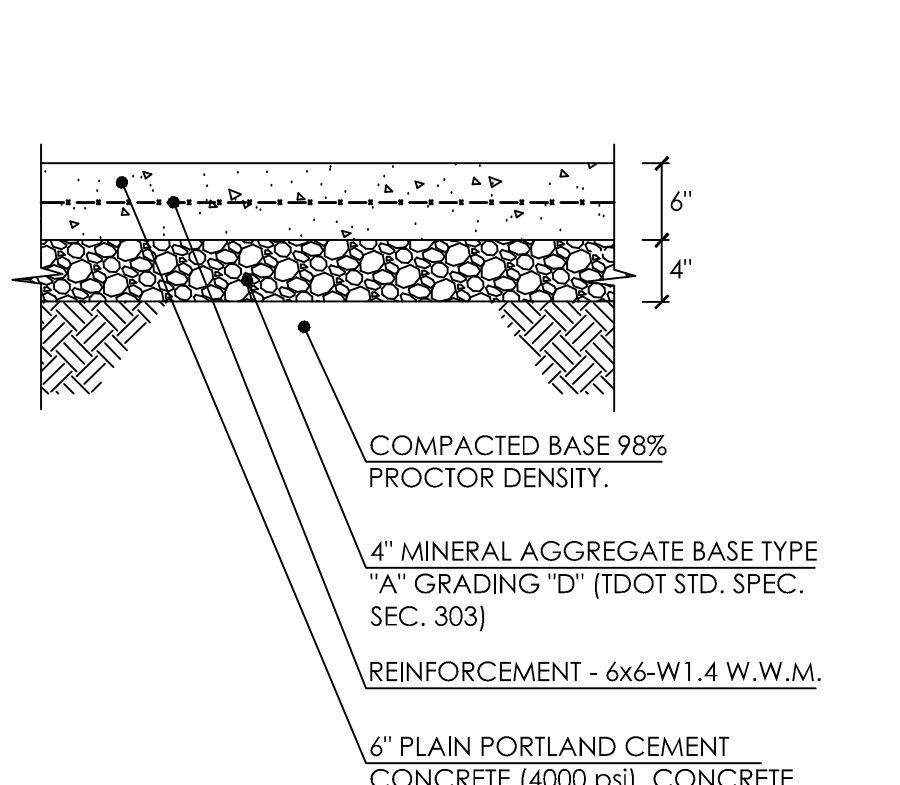
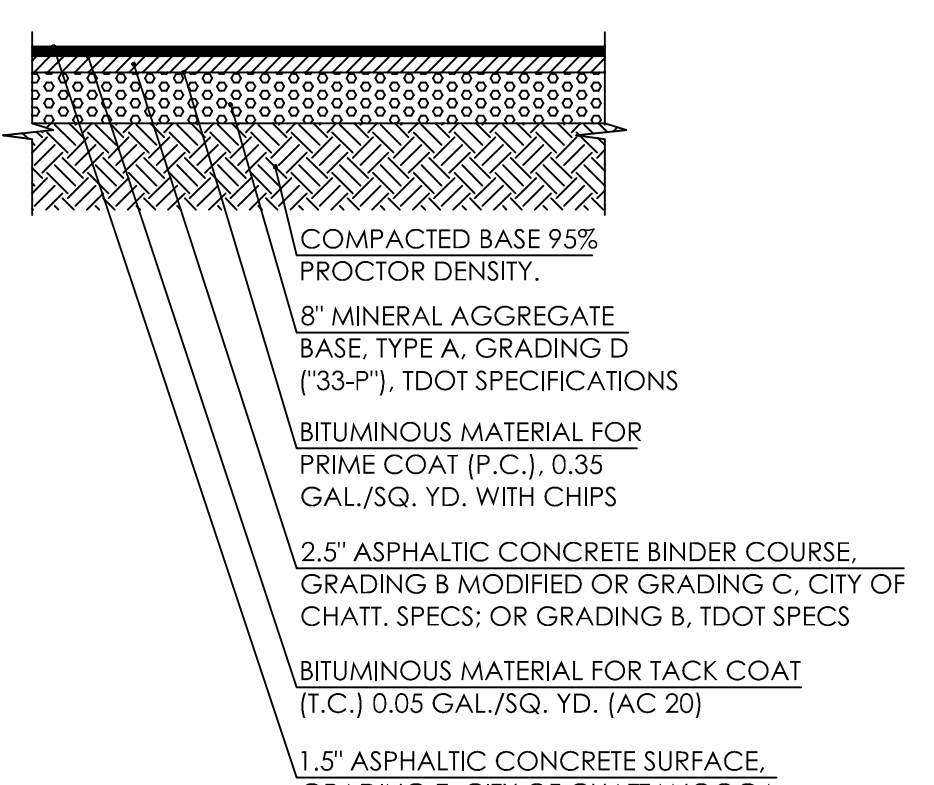
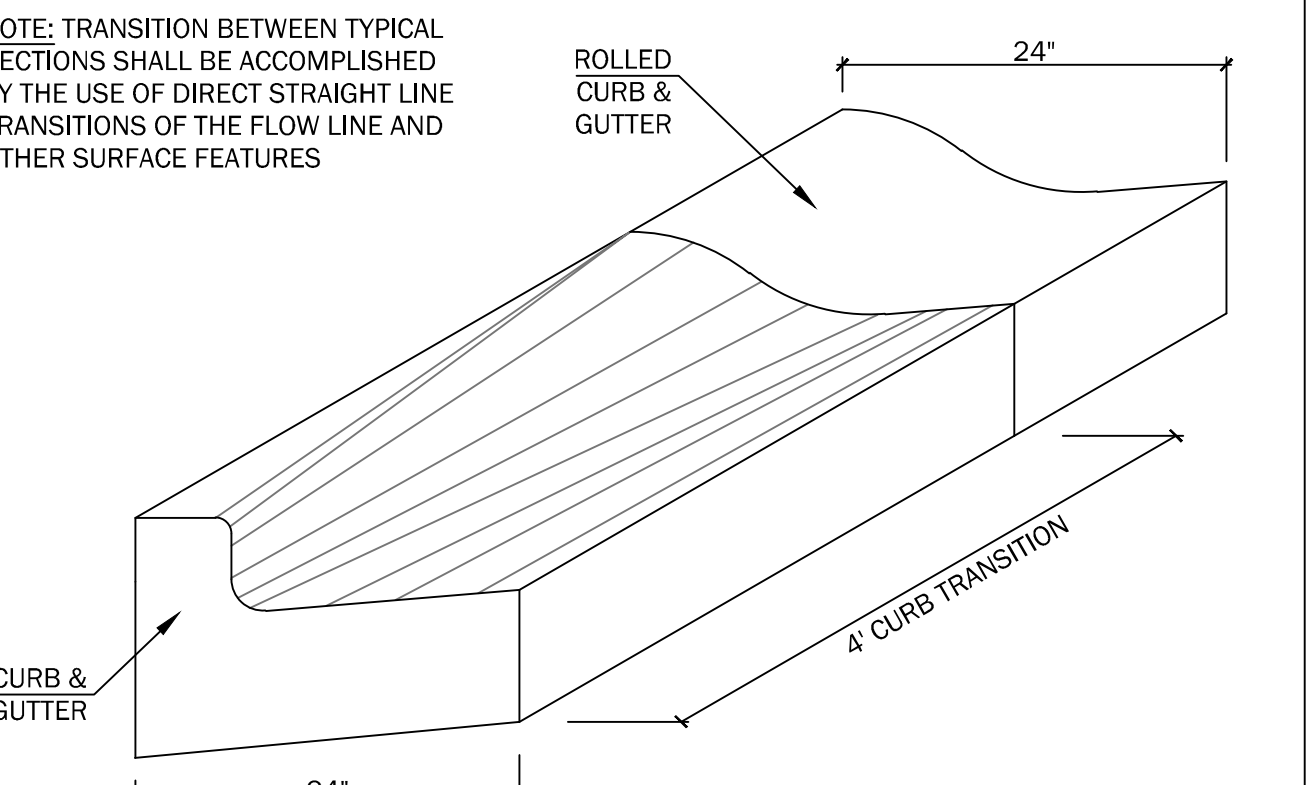
5 MAILBOX LAYOUT W/OUT VERGE (CURBSIDE S/W)  
PARALLEL STYLE  
N.T.S.



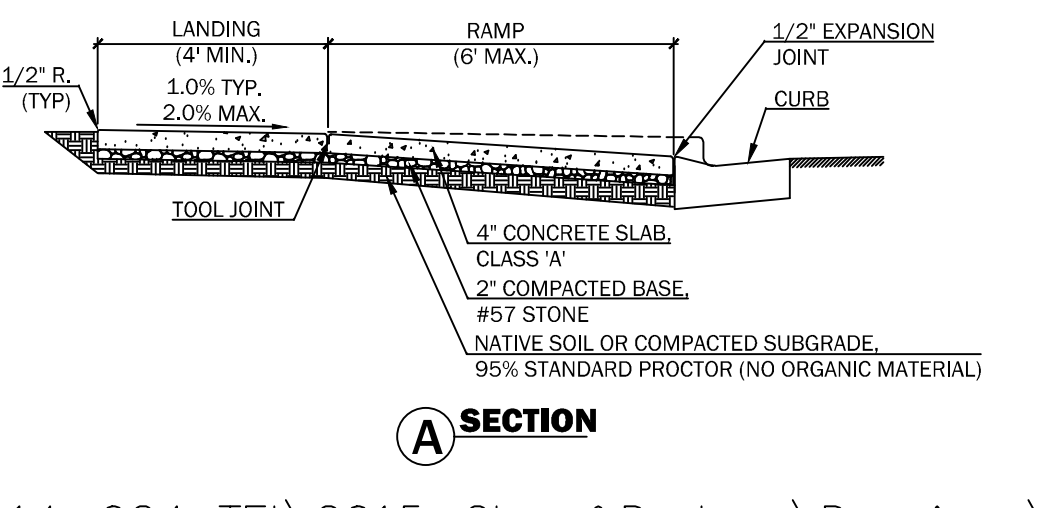
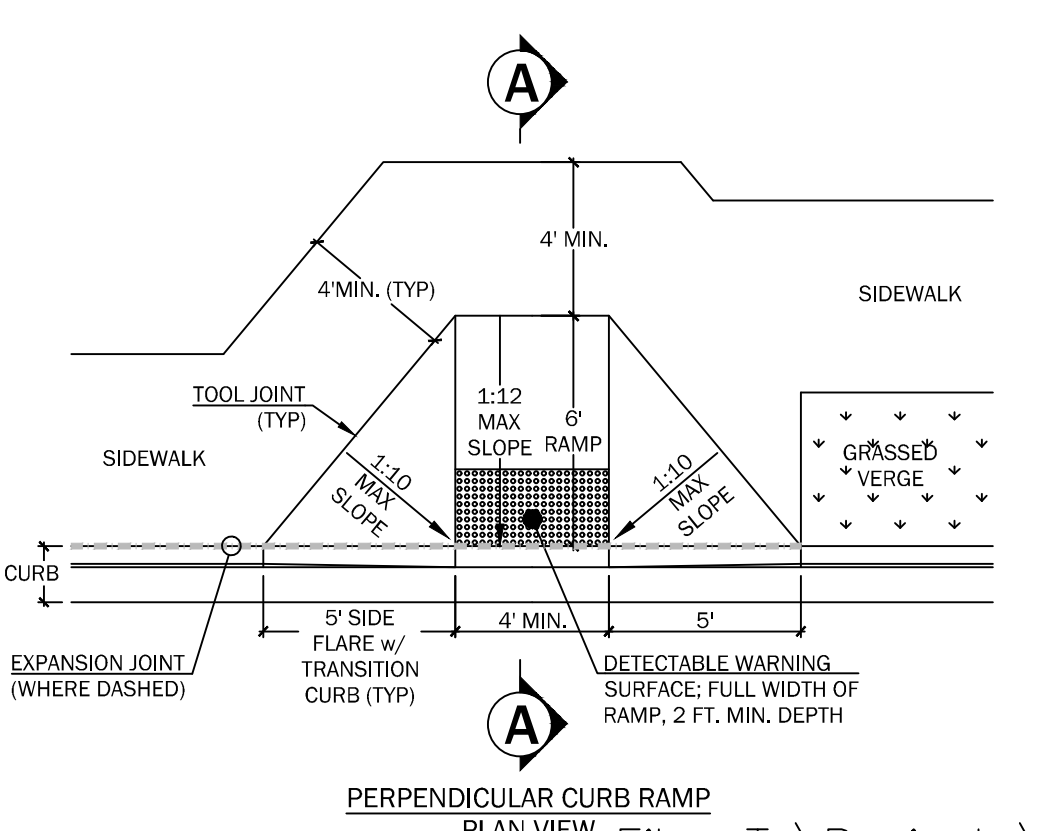
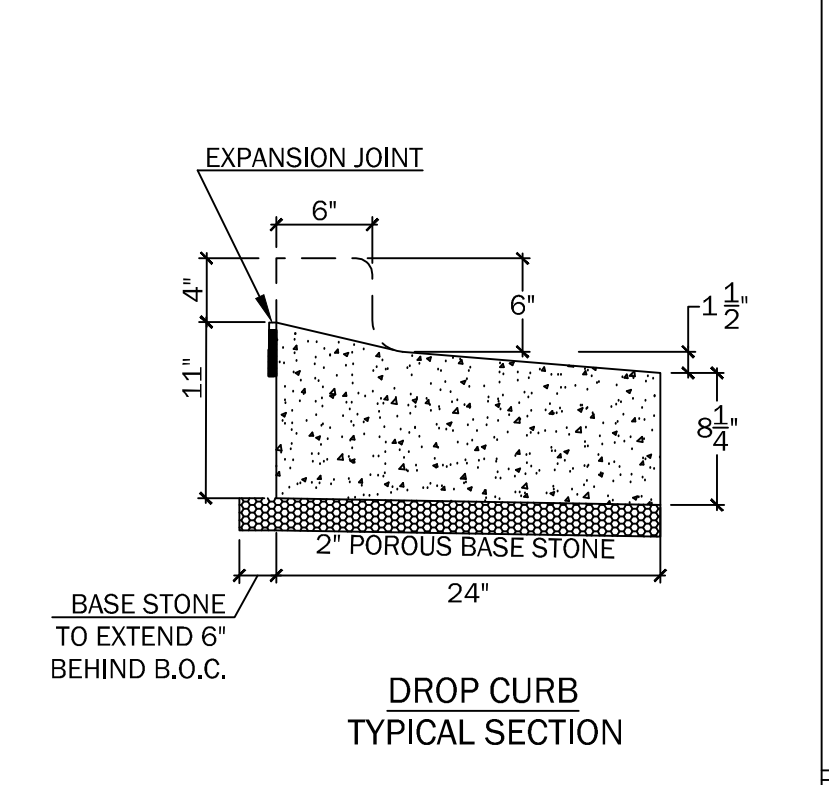
6 EXPANSION JOINT DETAIL  
N.T.S.



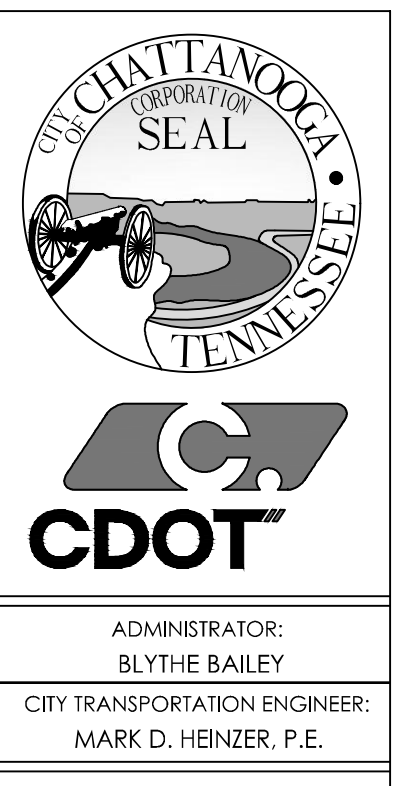
8 ROLLED CURB & GUTTER  
N.T.S.



12 REVERSE SLOPE CURB AND GUTTER  
N.T.S.



13 PERPENDICULAR CURB RAMP  
N.T.S.



MOSS DRIVE SIDEWALKS  
CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

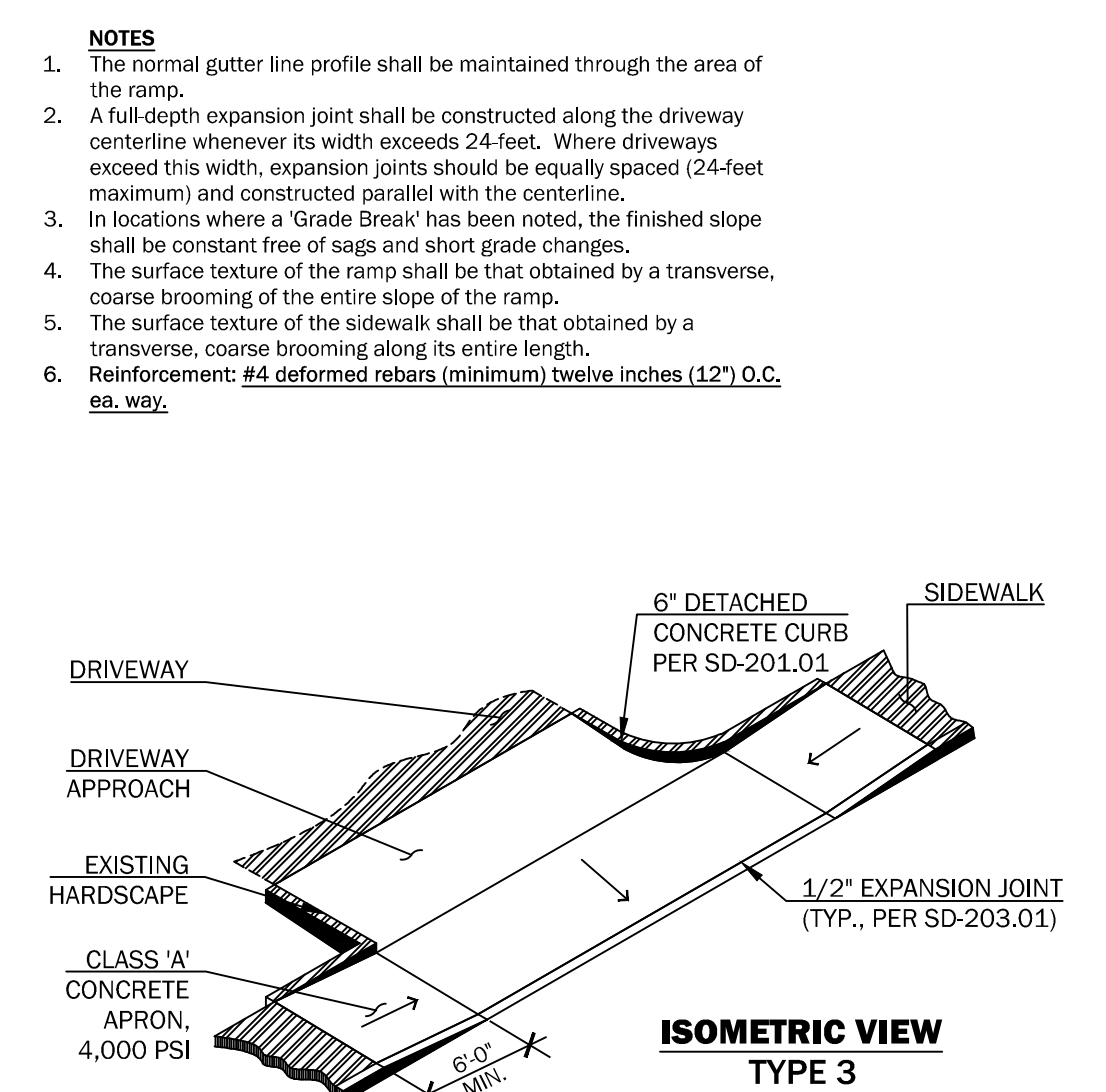
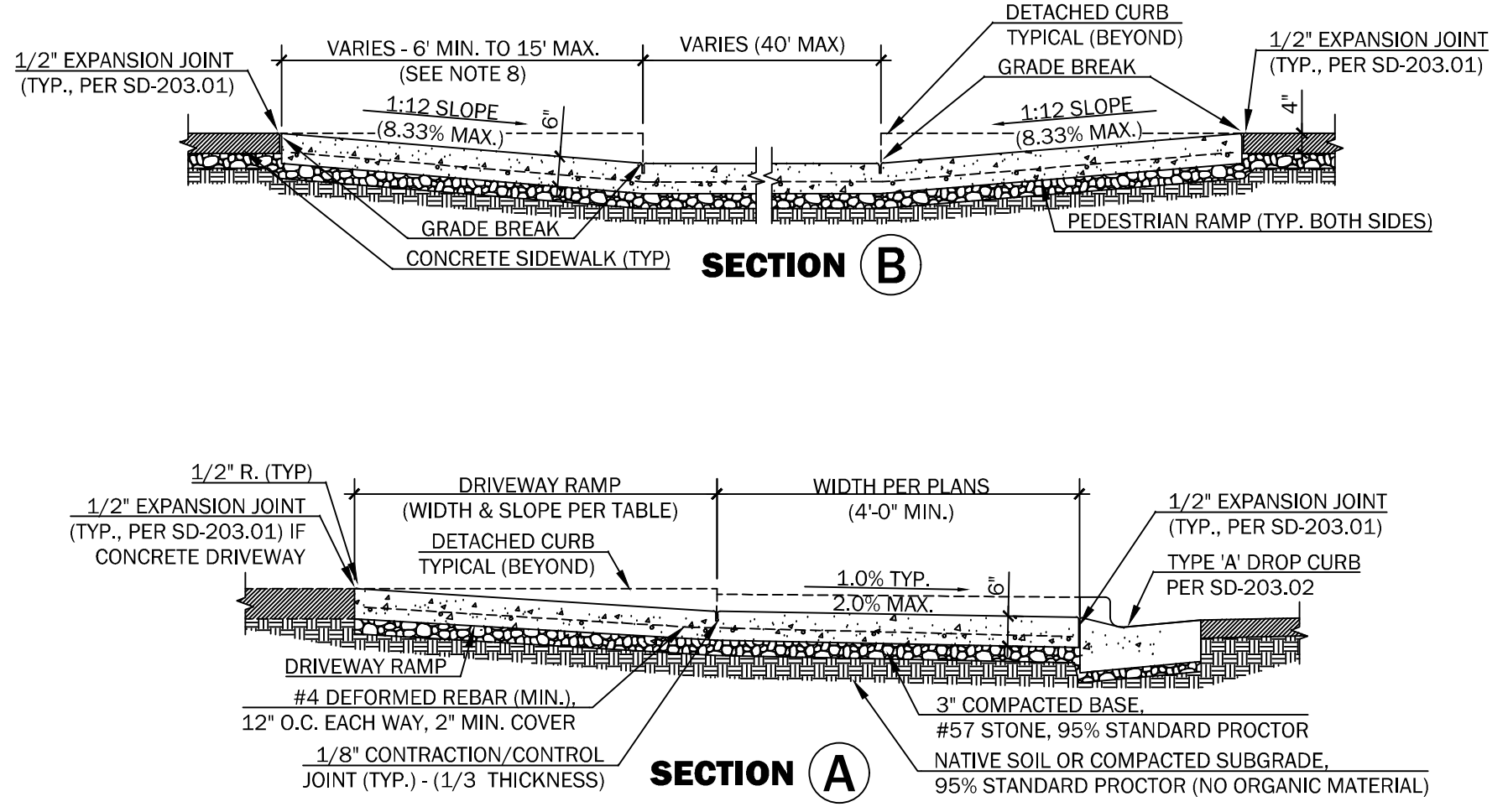
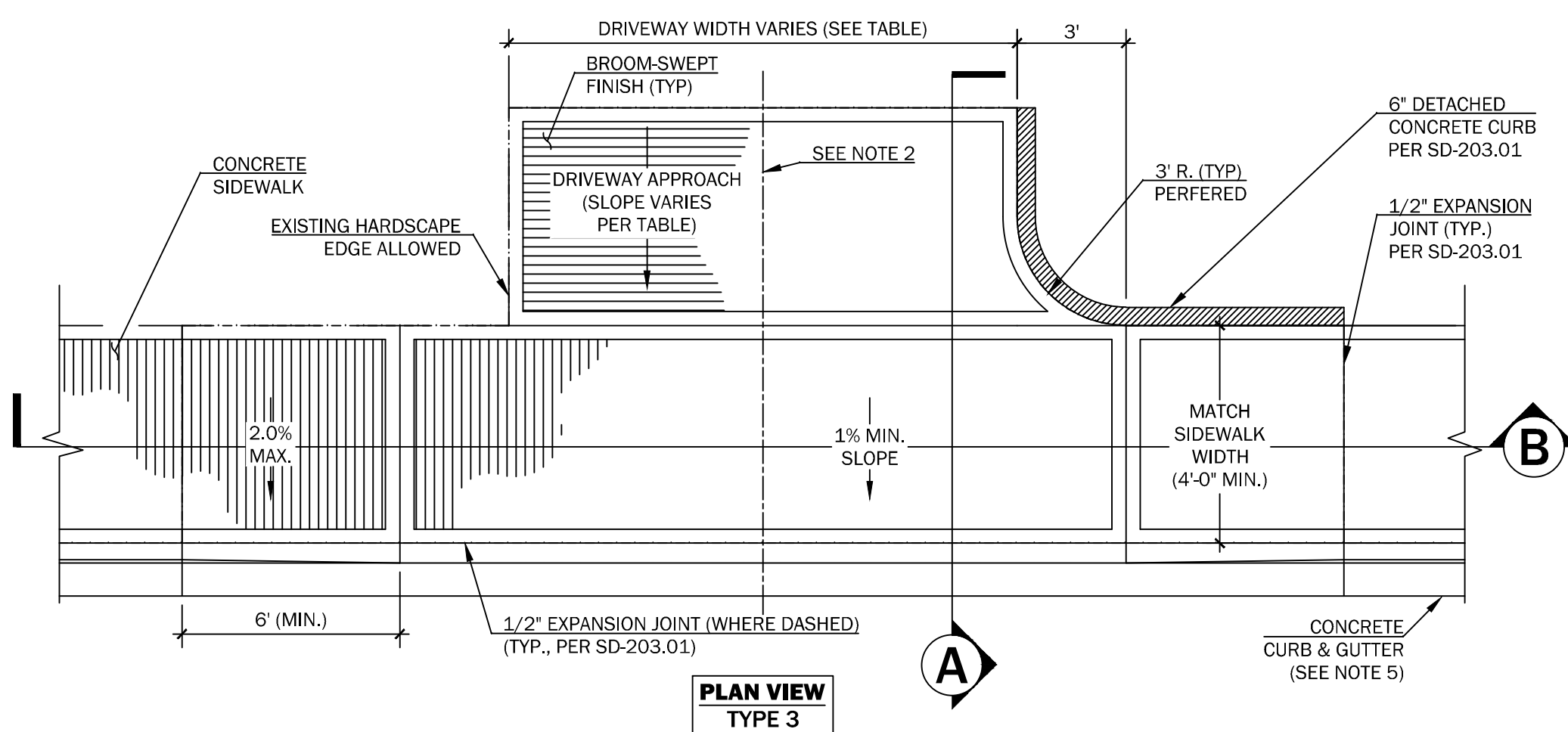
DETAILS

DATE:	5/4/2020
DRAWN:	GMH
CHECKED:	CHAT
REVISIONS	
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MARK D. HEINZER  
REGISTERED PROFESSIONAL ENGINEER  
5/4/2020  
STATE OF TENNESSEE  
NO. 114738  
TN REGISTRATION NO. 114738

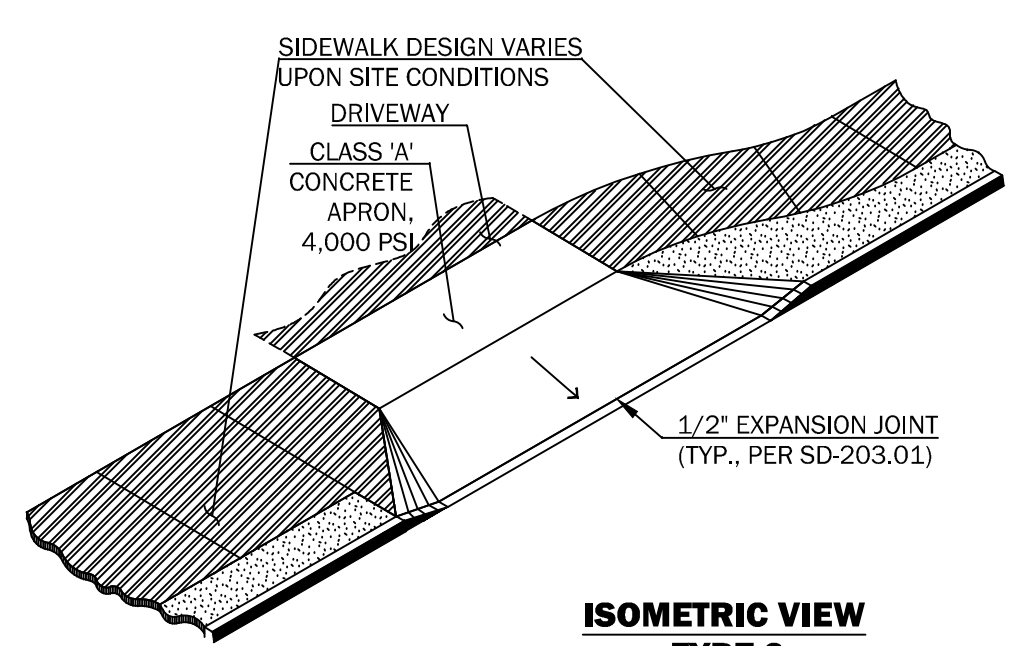
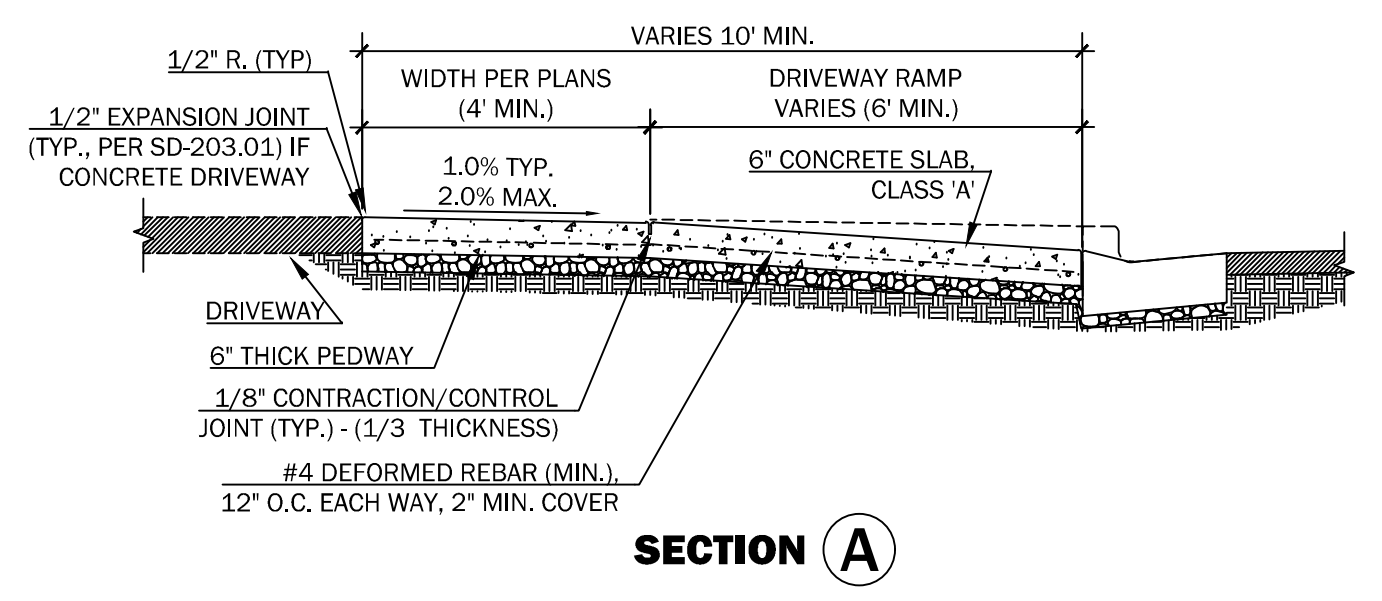
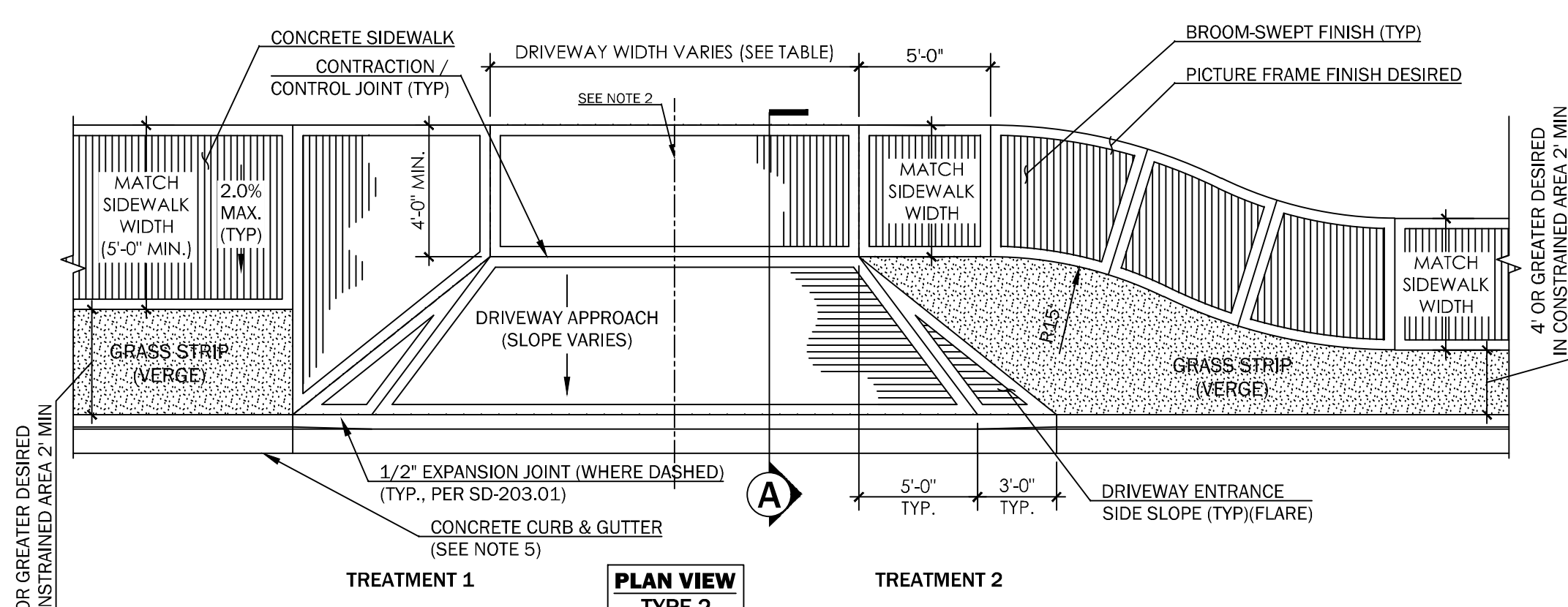
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File: T:\Projects\T-14-024 TEI\2015\_Glass&Dodson\Drawings\Details\SD206.01\_.pdf  
Drawing for invalid reference



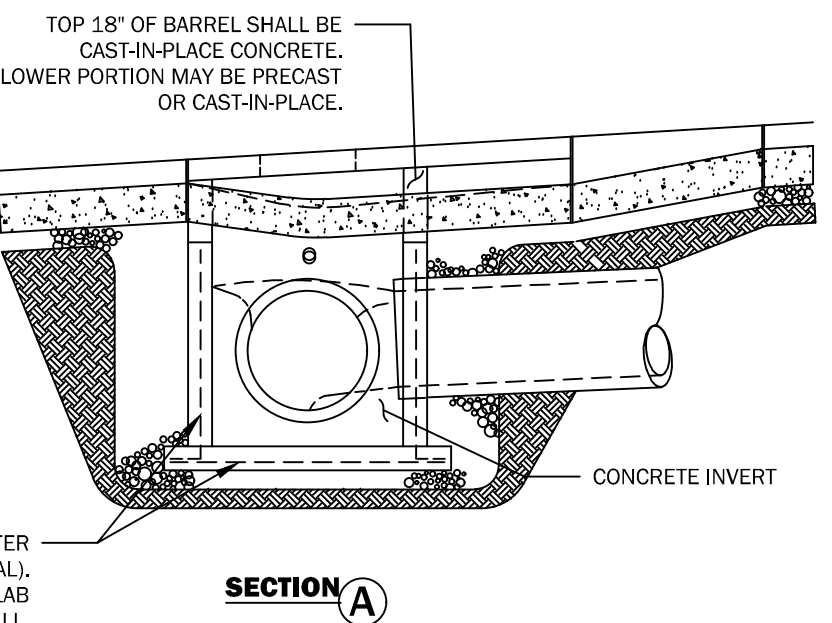
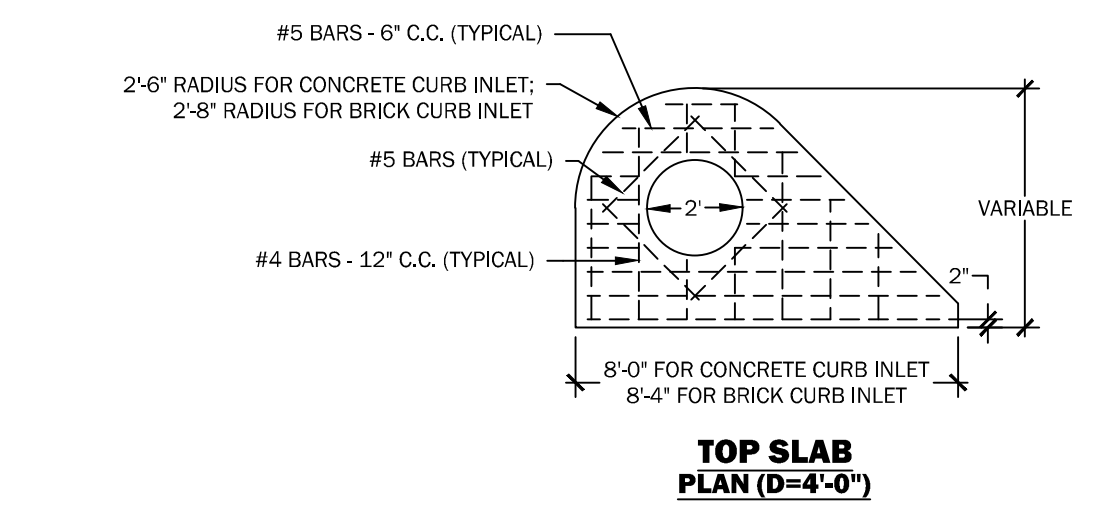
- NOTES**
- The normal gutter line profile shall be maintained through the area of the ramp.
  - A full-depth expansion joint shall be constructed along the driveway centerline whenever its width exceeds 24-feet. Where driveways exceed this width, expansion joints should be equally spaced (24-foot maximum) and constructed parallel with the centerline.
  - In locations where a 'Grade Break' has been noted, the finished slope shall be constant free of sags and short grade changes.
  - The surface texture of the ramp shall be that obtained by a transverse, coarse brooming of the entire slope of the ramp.
  - The surface texture of the sidewalk shall be that obtained by a transverse, coarse brooming along its entire length.
  - Reinforcement: #4 deformed rebars (minimum twelve inches (12") O.C. ea. way.

1 CONCRETE DRIVEWAY APRON - TYPE 3  
N.T.S.

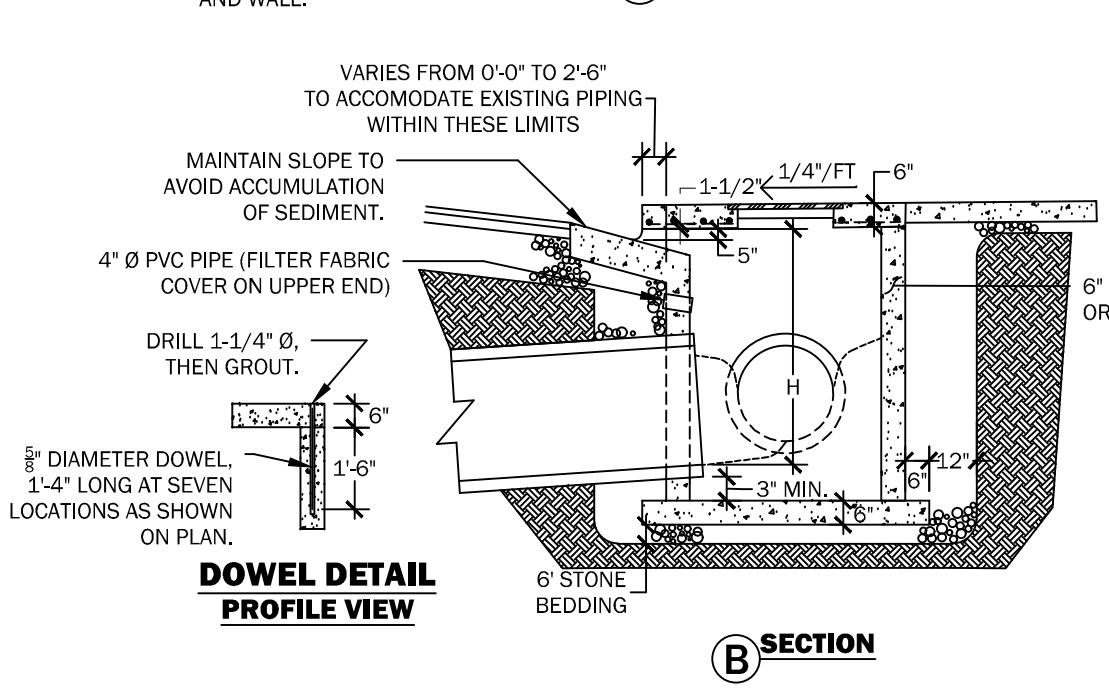
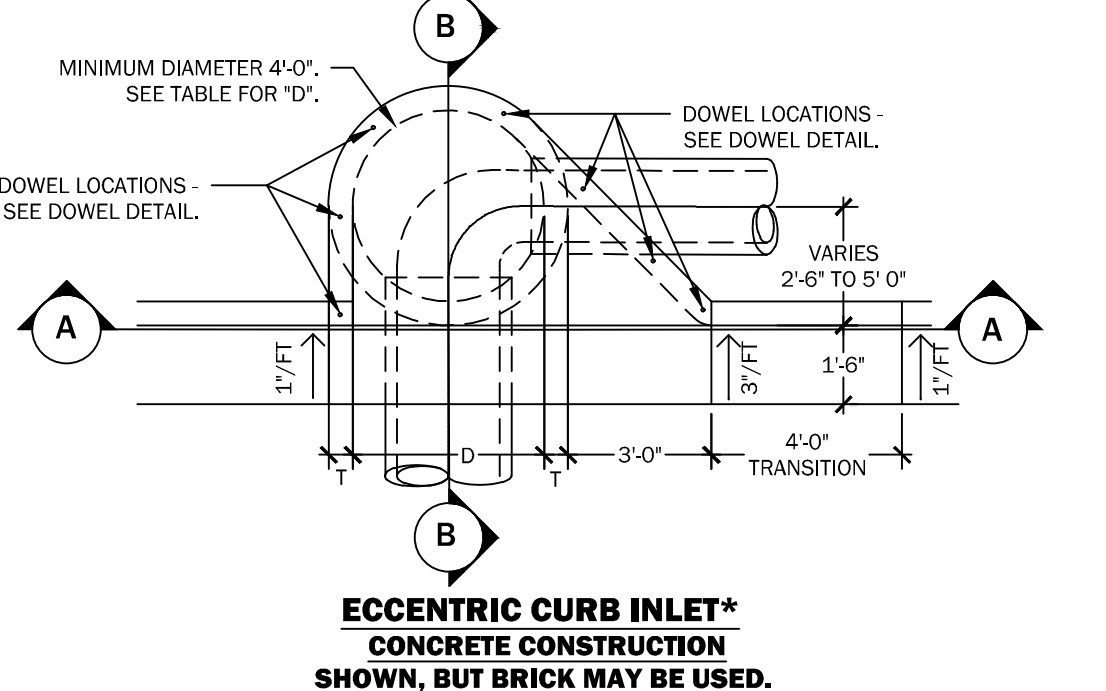


- NOTES**
- The normal gutter line profile shall be maintained through the area of the ramp.
  - A full-depth expansion joint shall be constructed along the driveway centerline whenever its width exceeds 24-feet. Where driveways exceed this width, expansion joints should be equally spaced (24-foot maximum) and constructed parallel with the centerline.
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  - The surface texture of the sidewalk shall be that obtained by a transverse, coarse brooming along its entire length.
  - Reinforcement: #4 deformed rebars (minimum twelve inches (12") O.C. ea. way.

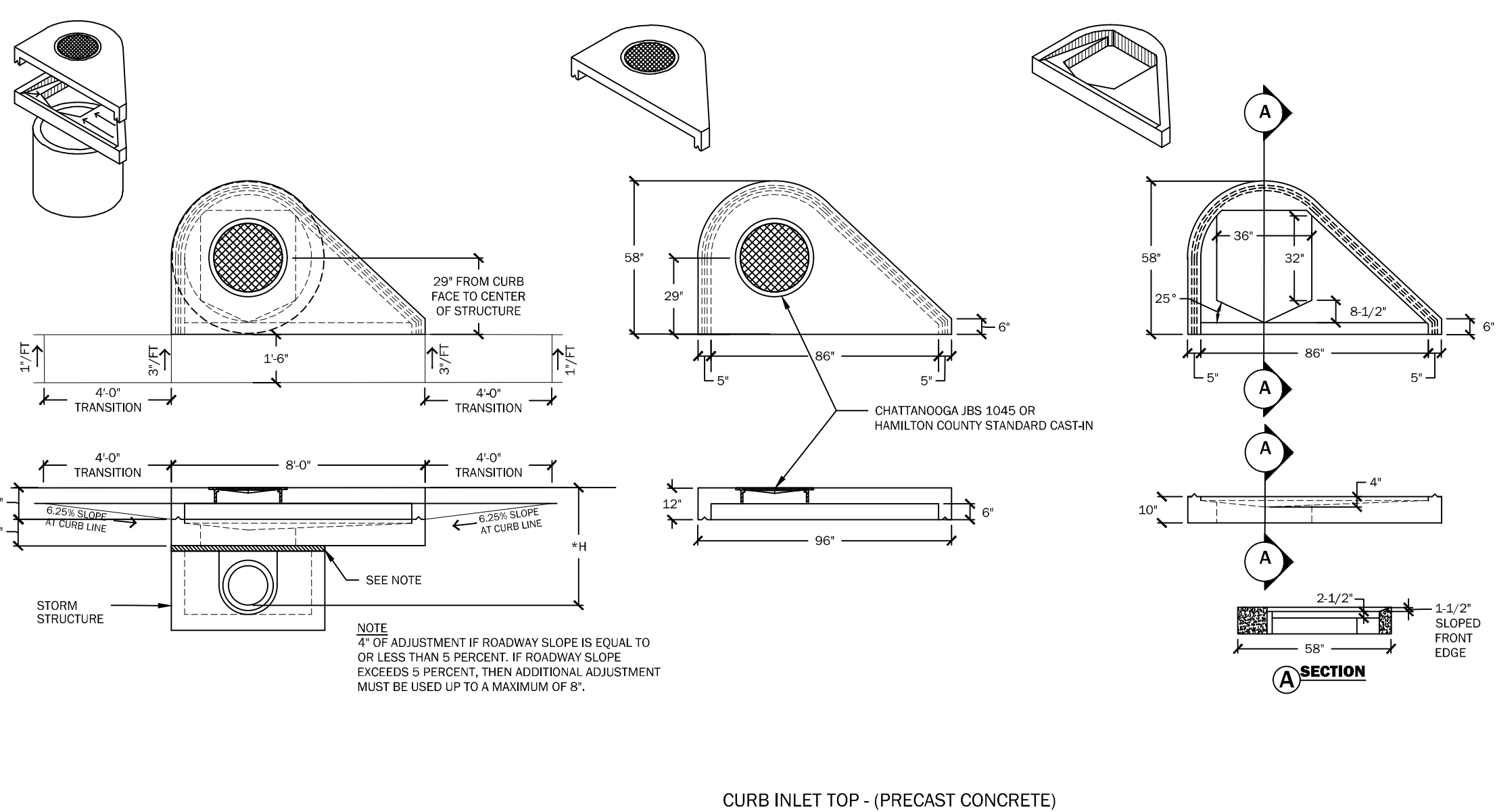
2 CONCRETE DRIVEWAY APRON - TYPE 2  
N.T.S.



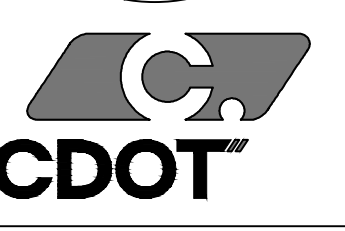
- NOTES**
- THE TOP COVER IS TO BE PRECAST AND ATTACHED WITH GROUTED DOWELS.
  - MANHOLE STEPS ON 16\"/>



PIPE SIZE	(D) INLET DIAMETER	(T) WALL THICKNESS	(H) MINIMUM DEPTH	
12"	4"	6"	2.83'	
15"	4"	6"	3.10'	
18"	4"	6"	3.38'	
21"	4"	6"	3.65'	
24"	4"	6"	3.92'	
30"	4"	6"	4.46'	
36"	5"	8"	5.00'	
42"	5"	8"	5.54'	
48"	6"	8"	6.08'	
54"	7"	8"	6.63'	
60"	8"	8"	7.17'	
<b>SPAN RISE</b>				
14"	9"	4"	6"	2.42'
17"	13"	4"	6"	2.75'
21"	15"	4"	6"	2.92'
24"	18"	4"	6"	3.21'
28"	20"	4"	6"	3.38'
35"	24"	5"	8"	3.71'
42"	29"	5"	8"	4.17'
49"	33"	6"	8"	4.50'
57"	38"	6"	8"	4.92'
64"	43"	7"	8"	5.33'



3 CURB INLET  
N.T.S.



ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

# MOSS DRIVE SIDEWALKS

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

## DETAILS

DATE:	5/4/2020
DRAWN:	GMH
CHECKED:	CHAT
REVISIONS	
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TN REGISTRATION NO. 114738

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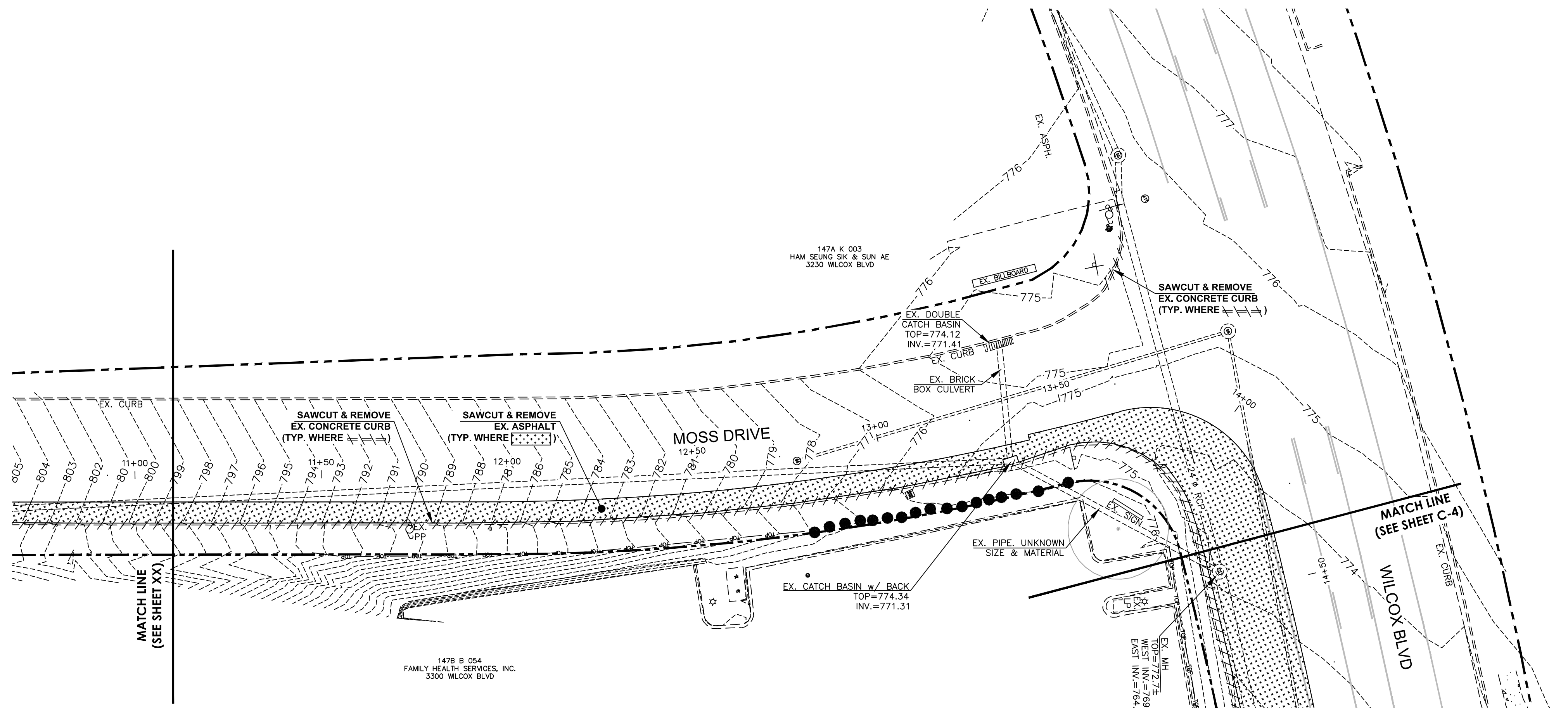
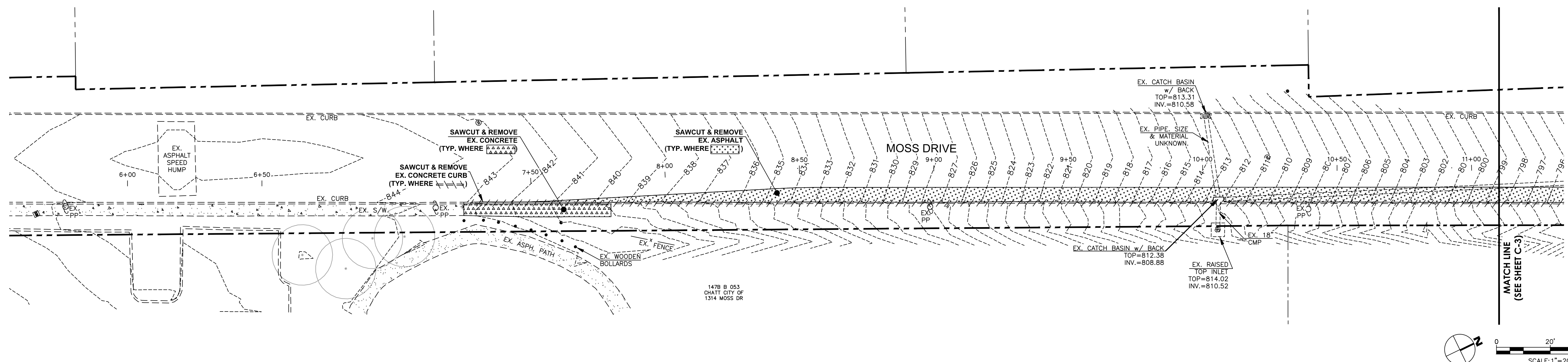
NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SANITARY SEWER & STORM SEWER (INCLUDING INVERTS), ELECTRIC, FIBER, CABLE, ETC. THESE PLANS DO NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES.



UTILITY LOCATE: CONTRACTOR SHALL CALL 811, OR (800) 351-1111, AT LEAST 3 DAYS PRIOR TO EXCAVATING OR SAW CUTTING. CONTRACTOR SHALL ALSO CALL CHATTANOOGA DEPARTMENT OF TRANSPORTATION TRAFFIC OPERATIONS DIVISION AT LEAST 3 BUSINESS DAYS PRIOR TO EXCAVATING OR SAW CUTTING WHEN PERFORMING WORK WITHIN 400' OF A SIGNALIZED INTERSECTION TO LOCATE AND MARK SUBSURFACE TRAFFIC SIGNAL WIRING, LOOPS, AND INFRASTRUCTURE. ANY REPAIR COSTS ASSOCIATED TO TRAFFIC SIGNAL INFRASTRUCTURE DAMAGED DURING CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR.



ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

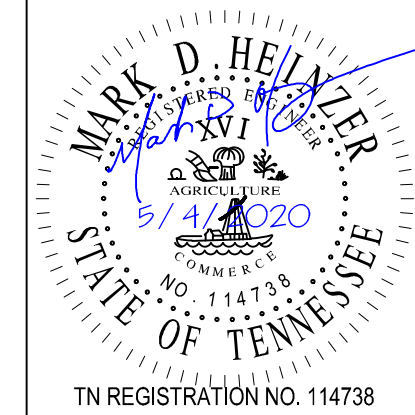


# MOSS DRIVE SIDEWALKS

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

## EXISTING CONDITIONS & DEMO PLAN

DATE:	5/4/2020
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ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

# MOSS DRIVE SIDEWALKS

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

## EXISTING CONDITIONS & DEMO PLAN

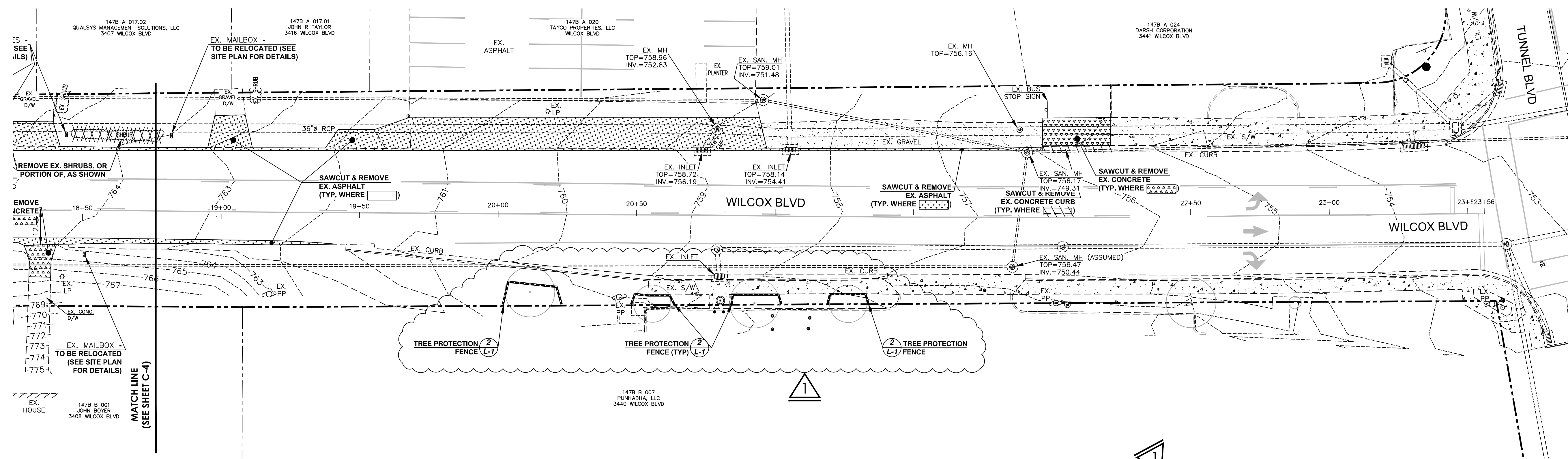
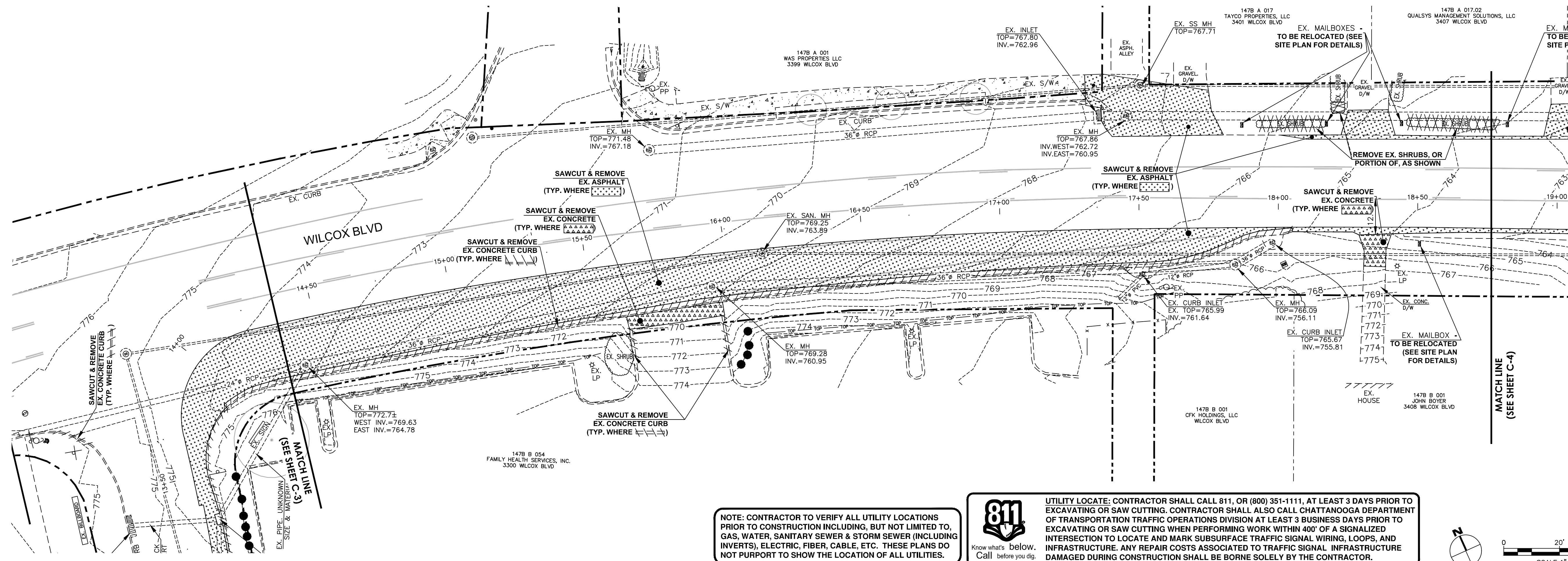
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TN REGISTRATION NO. 114738

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NOTE: VERGE AREA (AREA BETWEEN SIDEWALK AND CURB) AND ALL OTHER DISTURBED AREA BEHIND THE SIDEWALK SHALL BE SEEDED AND STRAWED.

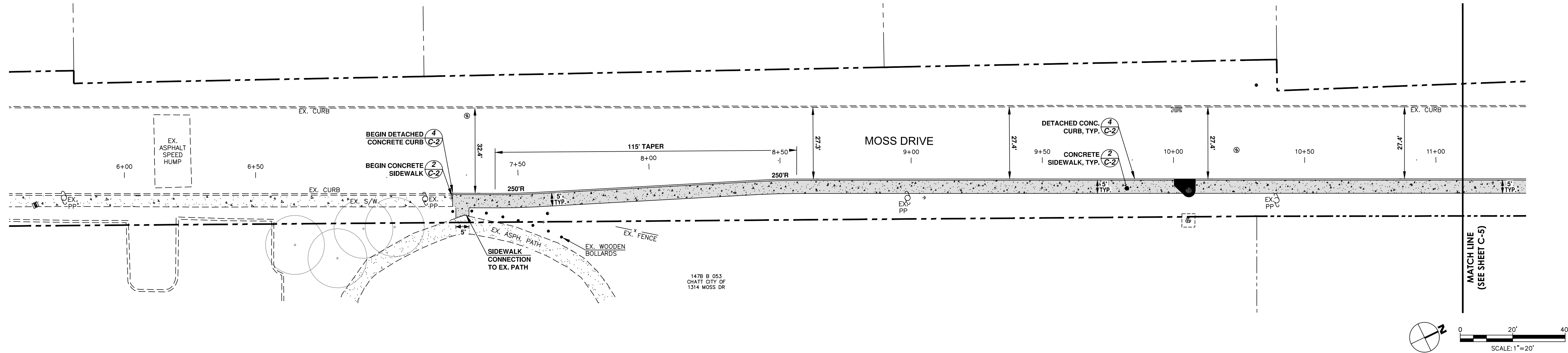
NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SANITARY SEWER & STORM SEWER (INCLUDING INVERTS), ELECTRIC, FIBER, CABLE, ETC. THESE PLANS DO NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES.



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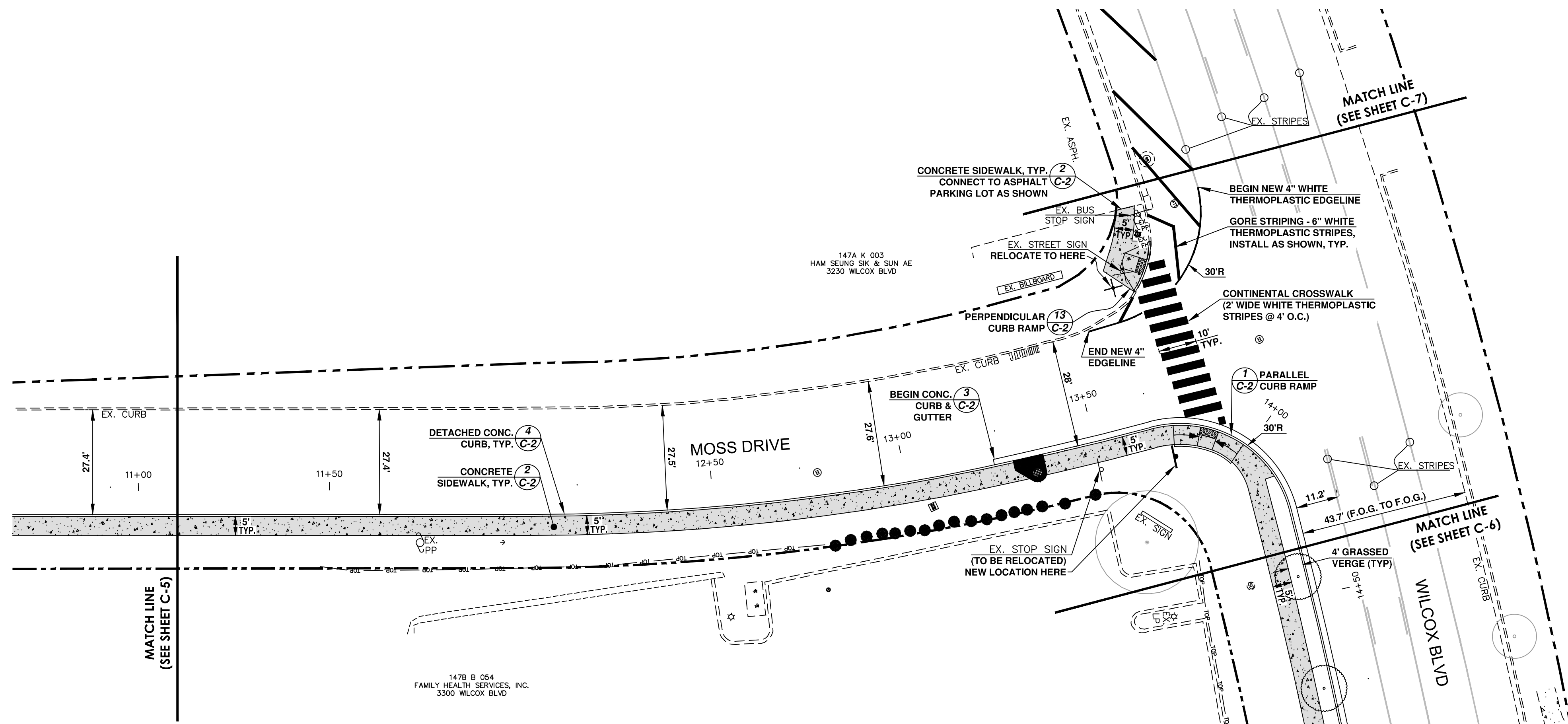


ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.



# MOSS DRIVE SIDEWALKS

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402



## SITE PLAN

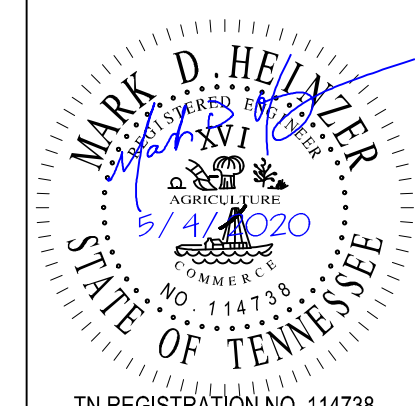
DATE: 5/4/2020

DRAWN: GMH

CHECKED: CHAIT

REVISIONS

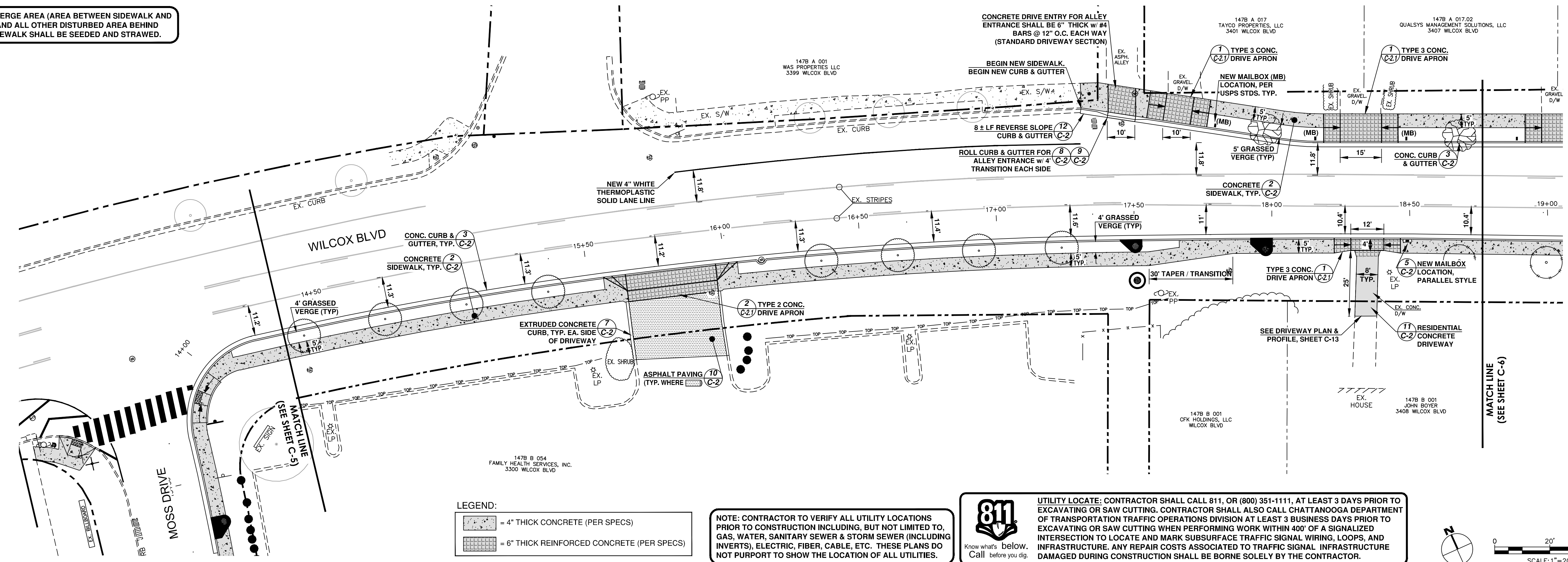
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TN REGISTRATION NO. 114738

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NOTE: VERGE AREA (AREA BETWEEN SIDEWALK AND CURB) AND ALL OTHER DISTURBED AREA BEHIND THE SIDEWALK SHALL BE SEEDED AND STRAWED.



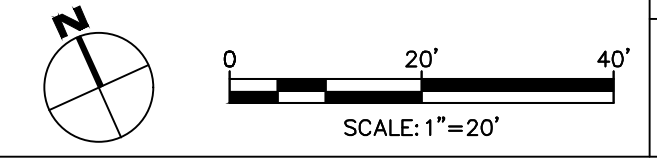
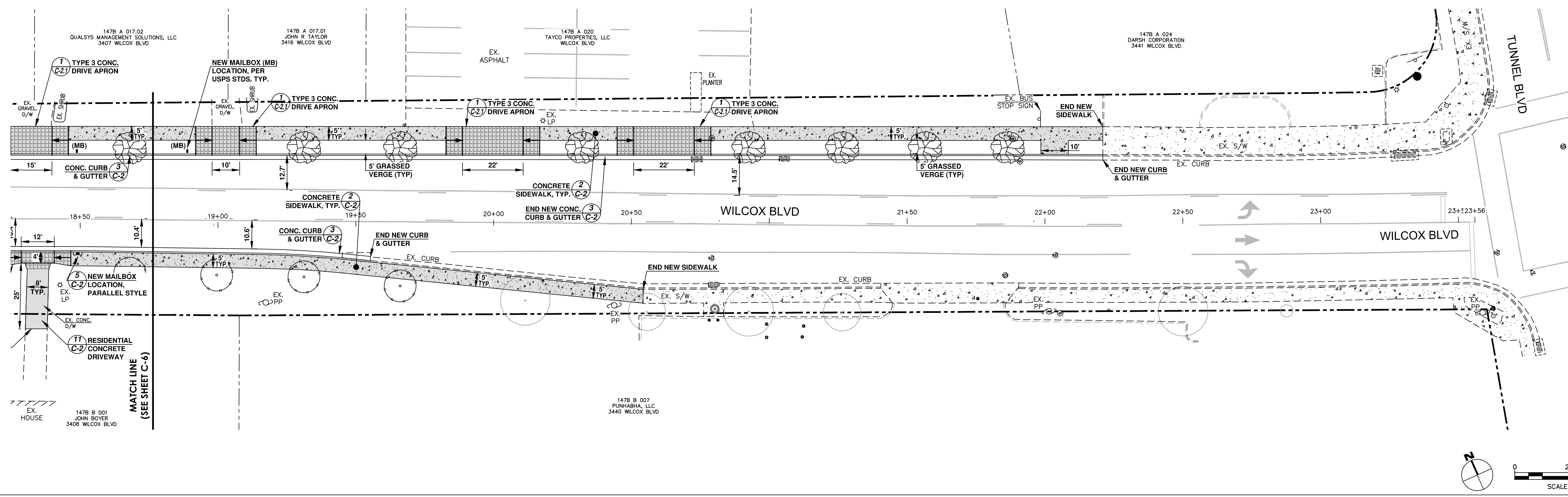
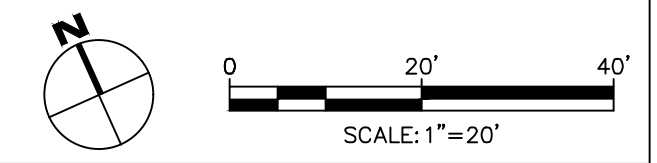
**LEGEND:**

- = 4" THICK CONCRETE (PER SPECS)
- = 6" THICK REINFORCED CONCRETE (PER SPECS)

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**811**  
Know what's below. Call before you dig.

UTILITY LOCATE: CONTRACTOR SHALL CALL 811, OR (800) 351-1111, AT LEAST 3 DAYS PRIOR TO EXCAVATING OR SAW CUTTING. CONTRACTOR SHALL ALSO CALL CHATTANOOGA DEPARTMENT OF TRANSPORTATION TRAFFIC OPERATIONS DIVISION AT LEAST 3 BUSINESS DAYS PRIOR TO EXCAVATING OR SAW CUTTING WHEN PERFORMING WORK WITHIN 400' OF A SIGNALIZED INTERSECTION TO LOCATE AND MARK SUBSURFACE TRAFFIC SIGNAL WIRING, LOOPS, AND INFRASTRUCTURE. ANY REPAIR COSTS ASSOCIATED TO TRAFFIC SIGNAL INFRASTRUCTURE DAMAGED DURING CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR.



CHATTANOOGA CORPORATION SEAL  
CDOT  
ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

**MOSS DRIVE SIDEWALKS**

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

**SITE PLAN**

DATE:	5/4/2020
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REVISIONS	
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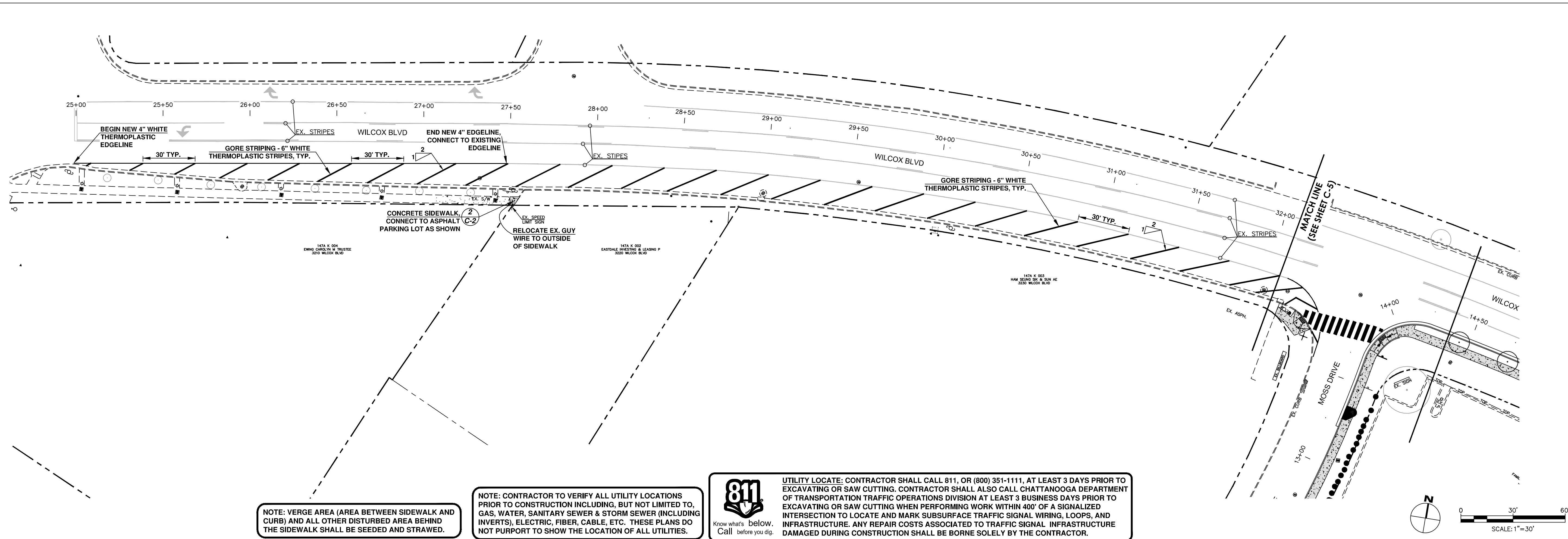
MARK D. HEINZER  
REGISTERED PROFESSIONAL ENGINEER  
5/4/2020  
STATE OF TENNESSEE  
TN REGISTRATION NO. 114738

**C-6**

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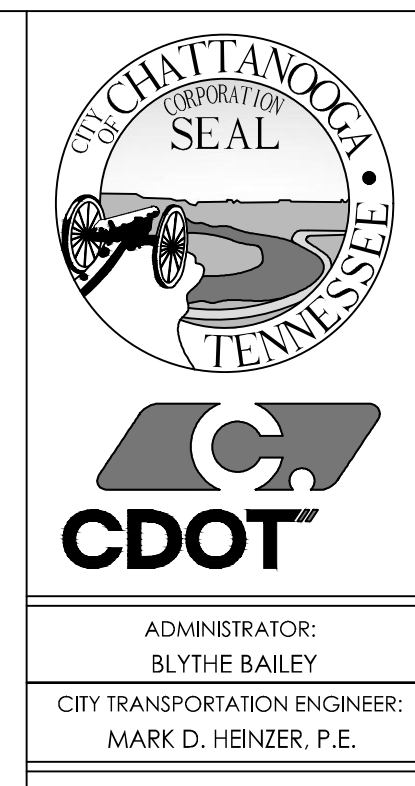
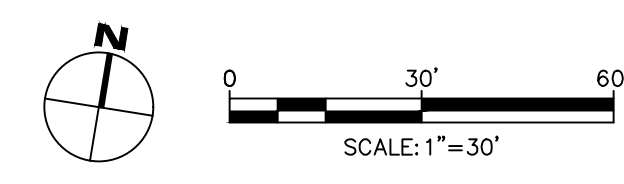


NOTE: VERGE AREA (AREA BETWEEN SIDEWALK AND CURB) AND ALL OTHER DISTURBED AREA BEHIND THE SIDEWALK SHALL BE SEEDED AND STRAWED.

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**MOSS DRIVE SIDEWALKS**  
 CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
 1250 MARKET ST., SUITE 3030  
 CHATTANOOGA, TN 37402

**SITE PLAN**

DATE:	5/4/2020
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TN REGISTRATION NO. 114738  
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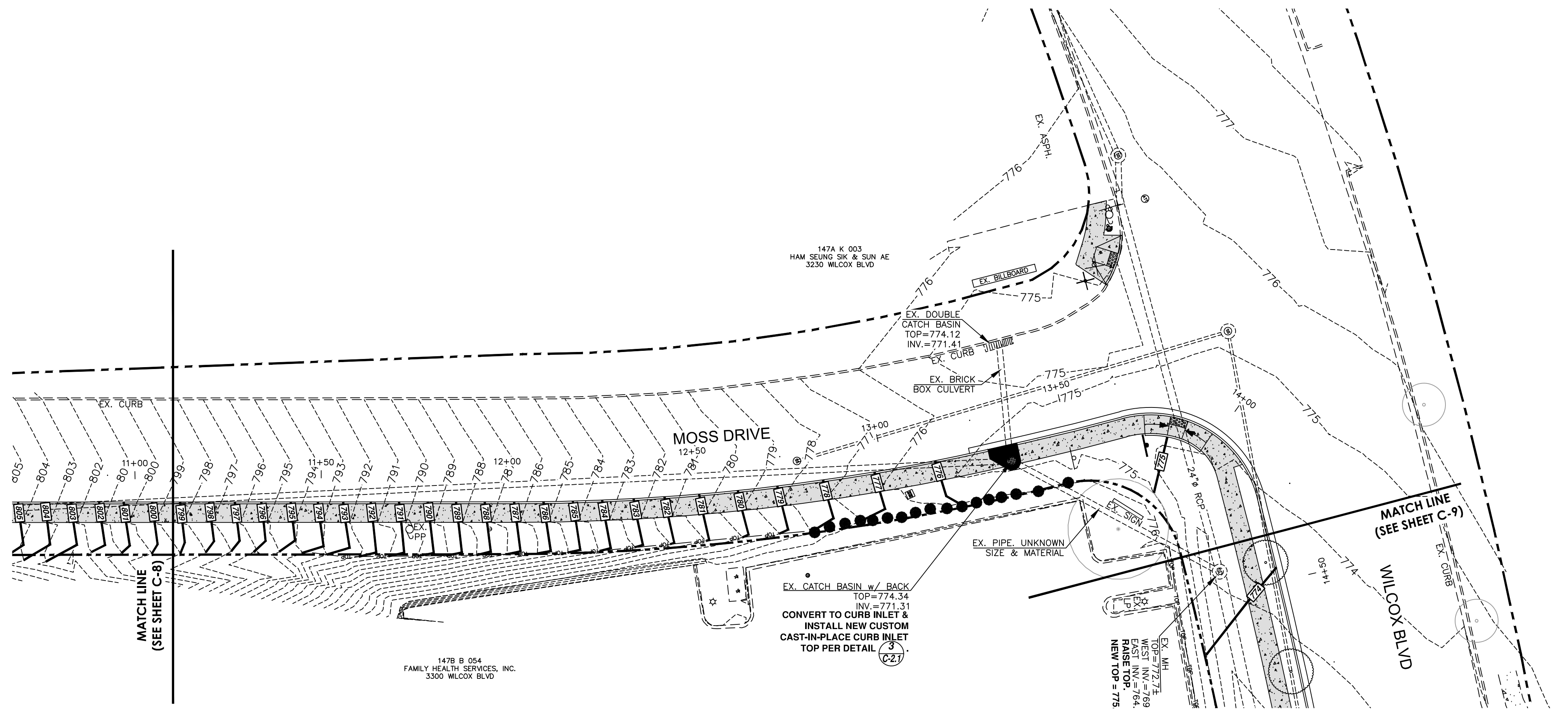
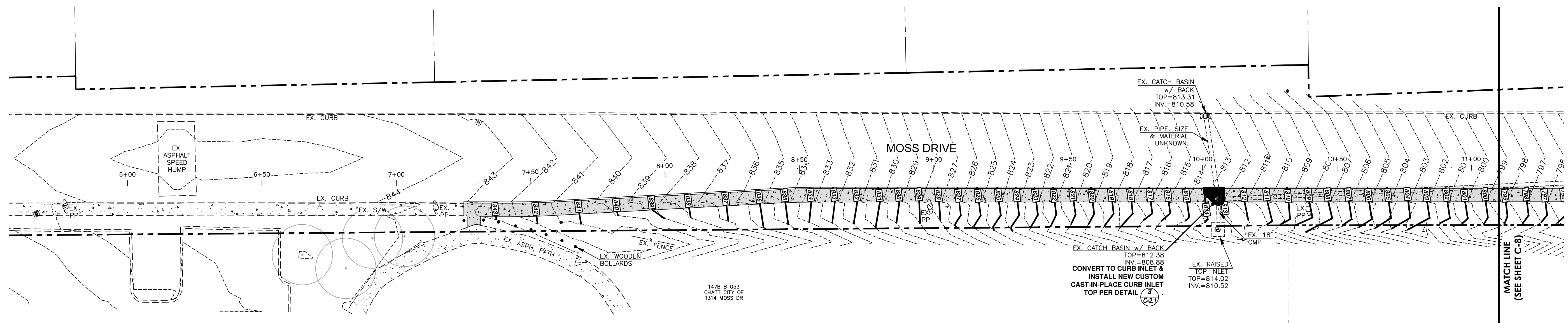
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ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.



# MOSS DRIVE SIDEWALKS

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

## GRADING PLAN

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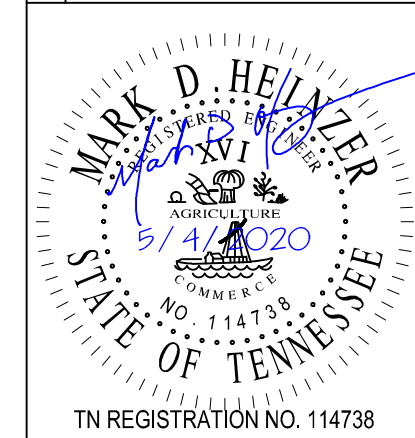
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# MOSS DRIVE SIDEWALKS

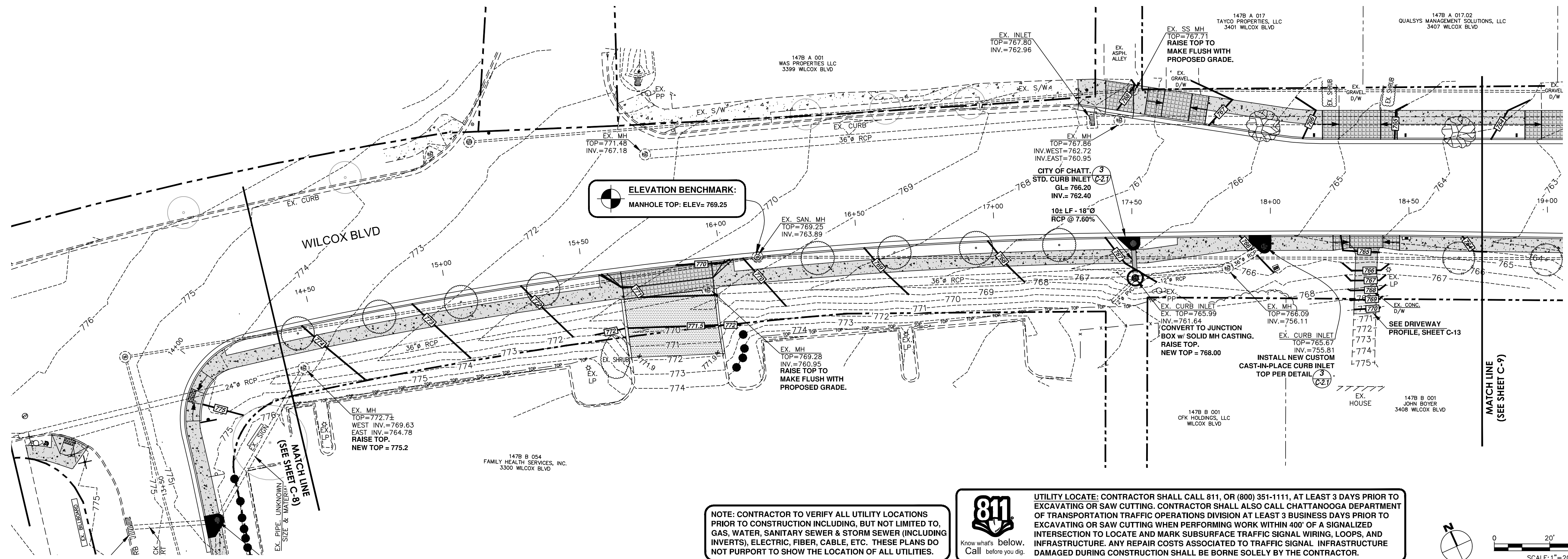
CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

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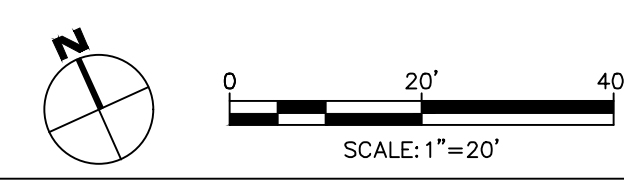
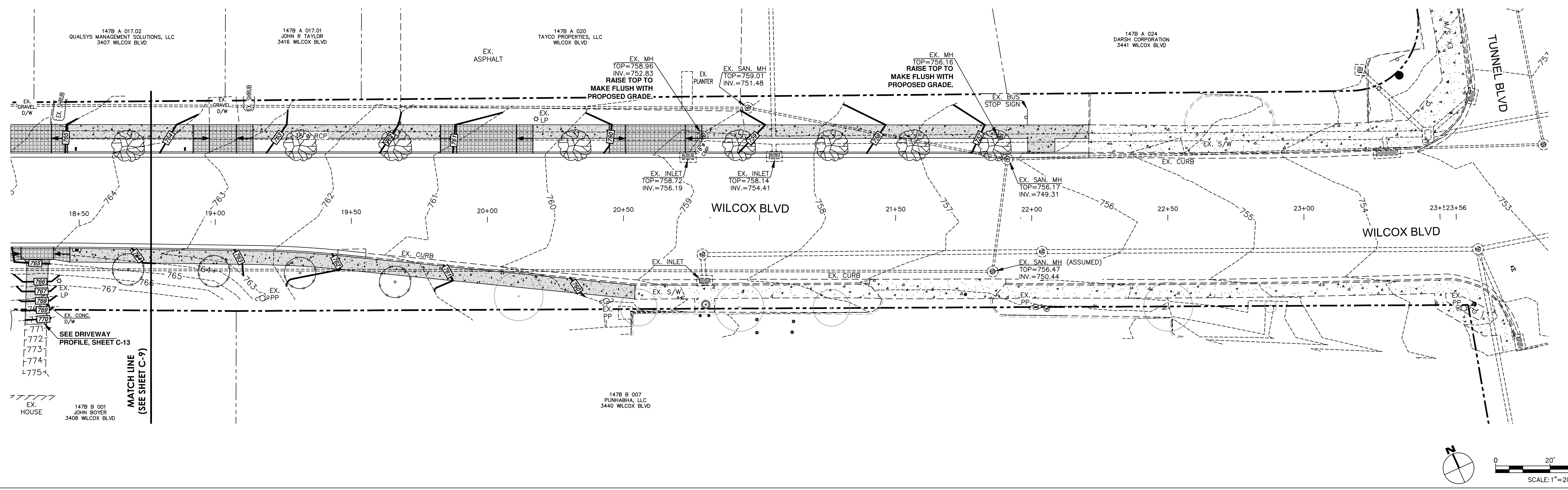


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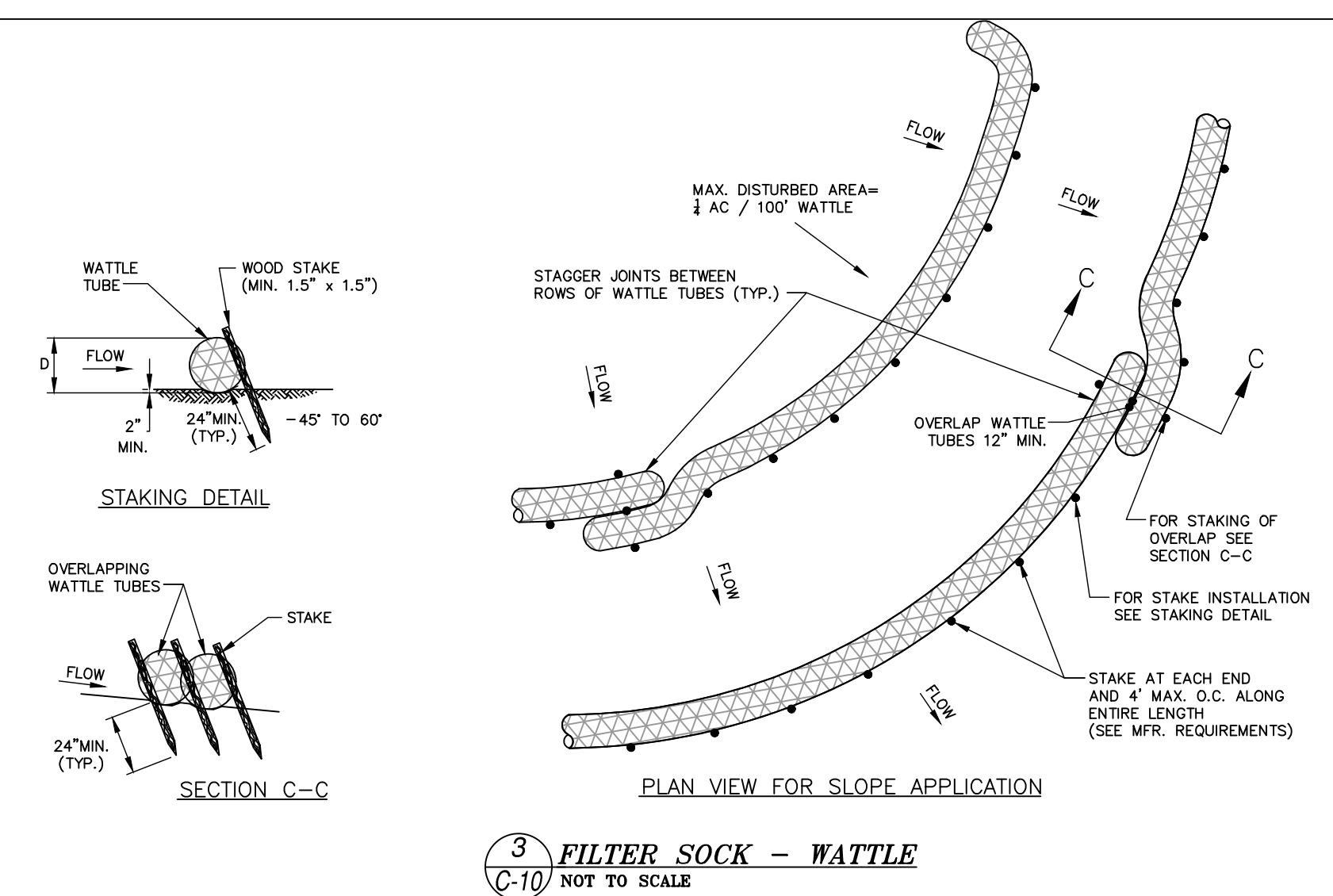
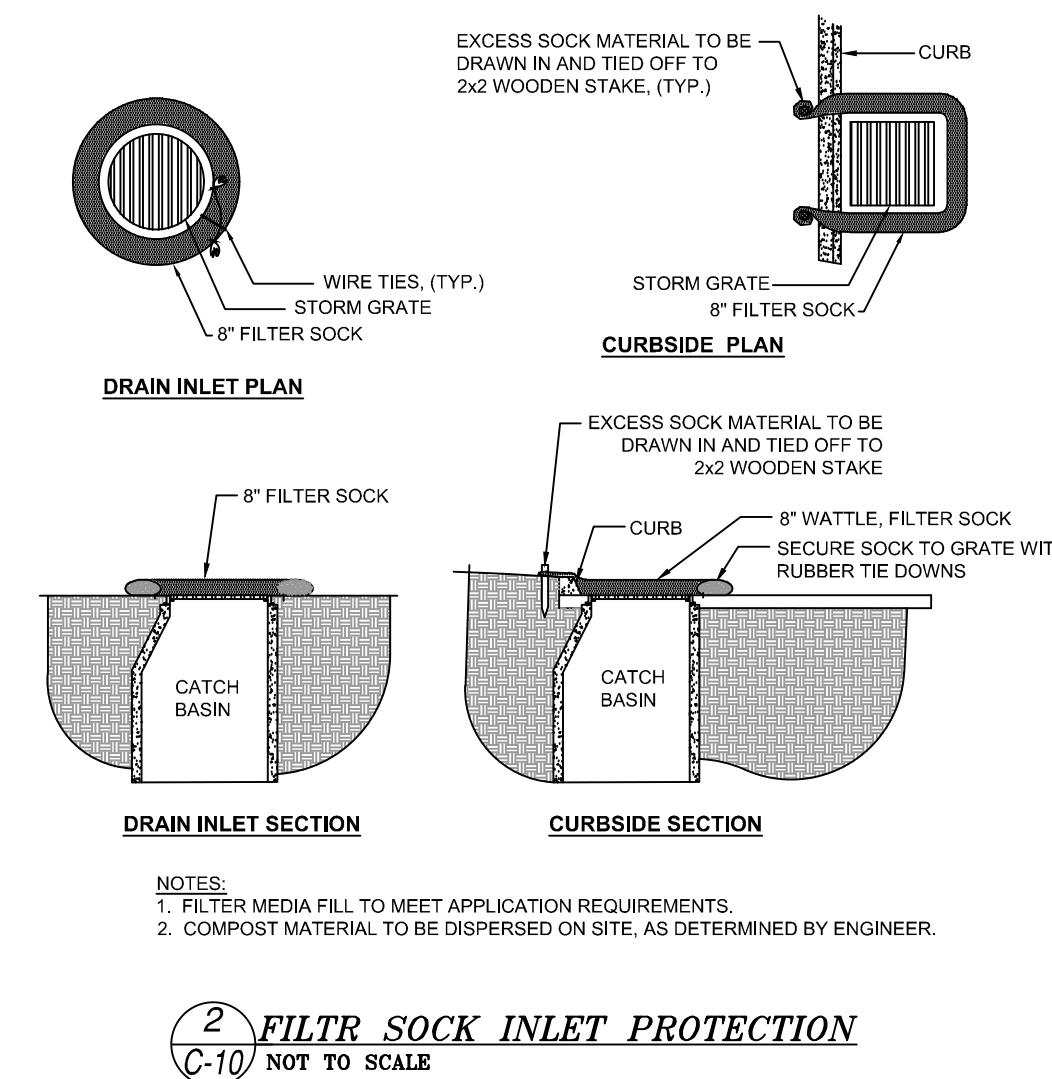
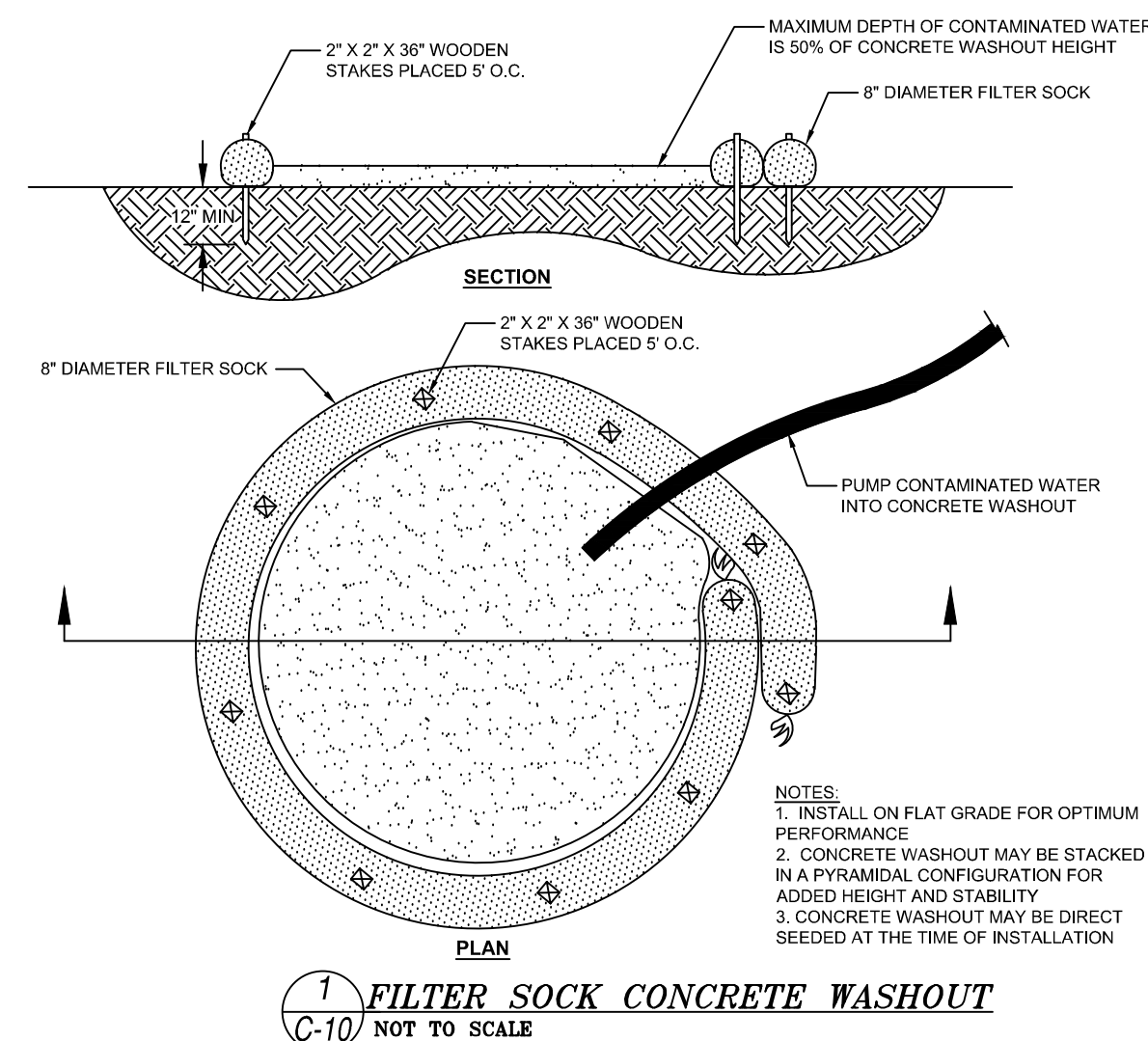
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**EROSION CONTROL NOTES:**

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN TENNESSEE."
4. ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE NOT PAVED WILL BE SEEDED FOR PERMANENT VEGETATION.
5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
6. EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE PROPERLY MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
7. CONSTRUCTION DEBRIS MUST BE KEPT FROM ENTERING STREAM CHANNELS AT ALL TIMES.
8. STOCKPILED SOIL SHALL BE LOCATED FAR ENOUGH FROM STREAMS AND DRAINAGE WAYS SO THAT RUNOFF CANNOT CARRY SEDIMENT DOWNSTREAM.
9. PERMANENT SOIL STABILIZATION WITH PERENNIAL VEGETATION SHALL BE APPLIED WITHIN 15 DAYS AFTER FINISH GRADING.
10. STAKED AND ENTRENCHED SILT SOX AND/OR SILT FENCES MUST BE INSTALLED ON THE DOWNHILL SIDE OF ALL EARTH DISTURBING ACTIVITIES.
11. ANY OFFSITE SEDIMENT ACCUMULATIONS SHALL BE REMOVED DAILY. OFFSITE ACCUMULATIONS DEPOSITED ON PRIVATE PROPERTY SHALL BE REMOVED BY METHODS AGREED UPON BY THE CITY OF CHATTANOOGA AND PROPERTY OWNERS.
12. IF SEDIMENT ENTERS WATER OF THE STATE, TDEC-WPC WILL BE NOTIFIED IMMEDIATELY AND CONSULTED WITH REMOVAL OF SAID SEDIMENT IF REQUIRED.
13. DEWATERING (OF MUDDY WATER) FROM EXCAVATIONS AND WORK AREAS SHALL BE ACCOMPLISHED USING A FILTER BAG IN COMBINATION W/STRAW BALE/SILT FENCE PIT. THE CAPTURED SEDIMENT SHALL BE REGRADED IN PLACE AND IMMEDIATELY STABILIZED.
14. SLOPES > 35% SHALL BE STABILIZED WITHIN 7 DAYS UTILIZING MATTING, TEMPORARY OR PERMANENT VEGETATION OR CONSTRUCTION ACTIVITIES SHALL BE CEASED.

**MAINTENANCE:**

1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE- HALF THE HEIGHT OF THE BARRIER.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
5. REMOVAL OF STANDING MUDDY WATER FROM THE SITE SHALL BE ACCOMPLISHED WITH A PUMP/FILTER BAG COMBINATION OR SAID WATER WILL BE DIVERTED INTO AN EXISTING SEDIMENT CONTROL DEVICE VIA A PUMP.
6. INSPECTIONS SHALL BE CONDUCTED TWICE PER WEEK 72 HOURS APART AND BEFORE ANTICIPATED RAIN EVENTS.
7. IF INSPECTIONS FIND THAT MAINTENANCE (I.E. FAILURE OF CONTROL OR PROPER INSTALLATION) IS REQUIRED, ACTION TO CORRECT MUST BE TAKEN BEFORE THE NEXT STORM EVENT BUT NO LATER THAN 7 DAYS AFTER IDENTIFICATION.

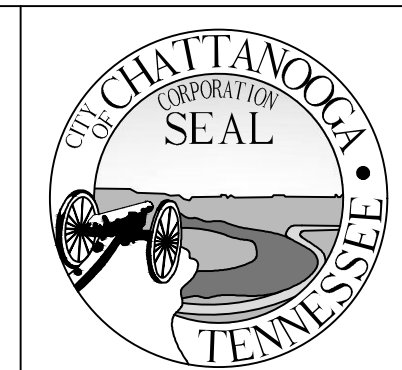


SPECIES	BROADCAST PER ACRE PER 1000 S.F.	PLANTING DATES												REMARKS		
		J	F	M	A	M	J	J	A	S	O	N	D			
RYE (BEALE CEREALE) ALONE IN MIXTURES	3 BU 3.9 LBS. 1/2 BU 0.6 LBS.															18,000 SEED PER POUND, QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY.
WHEAT	2-3 BU 2.6-3.9 LBS.															
RYEGRASS, ANNUAL (LOLIUM TEMULENTUM) ALONE	30 LBS. 0.7 LBS.															227,000 SEED PER POUND, DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
BROWNTOP MILLET (Panicum fasciculatum) ALONE IN MIXTURES	20 LBS. 0.4 LBS. 10 LBS. 0.2 LBS.															137,000 SEED PER POUND, QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.
SUDANGRASS	40 LBS. 0.9 LBS.															

DISTURBED AREA STABILIZATION (TEMP)

SPECIES	BROADCAST PER ACRE PER 1000 S.F.	PLANTING DATES												REMARKS		
		J	F	M	A	M	J	J	A	S	O	N	D			
TALL FESCUE (KY31)	45 LBS. 1.1 LBS.															227,000 SEED PER POUND. NOT FOR DROUGHTY SOILS. NOT FOR HEAVY USE.
WHITE CLOVER	3 LBS. 0.7 LBS.															
CROWNVETECH	20 LBS. 0.5 LBS.															
TALL FESCUE (KY31)	30 LBS. 0.7 LBS.															100,000 SEED PER POUND, DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT.
SERICA LESPEDEZA (SCARIFIED)	45 LBS. 1.1 LBS.															300,000 SEED PER POUND, HEIGHT OF GROWTH IS 18 TO 24 INCHES. ADVANTAGES IN URBAN AREAS.
TALL FESCUE (KY31) ANNUAL LESPEDEZA (KOBÉ)	20 LBS. 0.5 LBS. 8 LBS. 0.2 LBS.															
SERICA LESPEDEZA (SCARIFIED)	45 LBS. 1.1 LBS.															
WEEPING LOVE GRASS	3 LBS. 0.7 LBS.															
COMMON BERMUDAGRASS (HILLED)	14 LBS. 0.3 LBS.															
ANNUAL LESPEDEZA (KOBÉ)	8 LBS. 0.2 LBS.															

DISTURBED AREA STABILIZATION (PERM)



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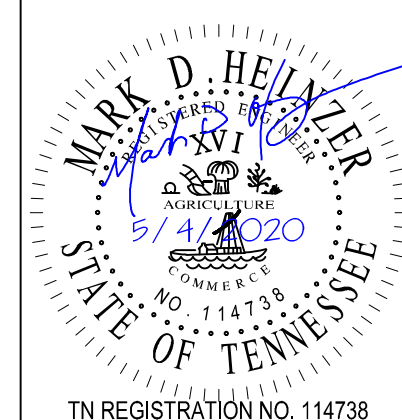
**MOSS DRIVE SIDEWALKS**

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

**EROSION CONTROL PLAN**

DATE: 5/4/2020  
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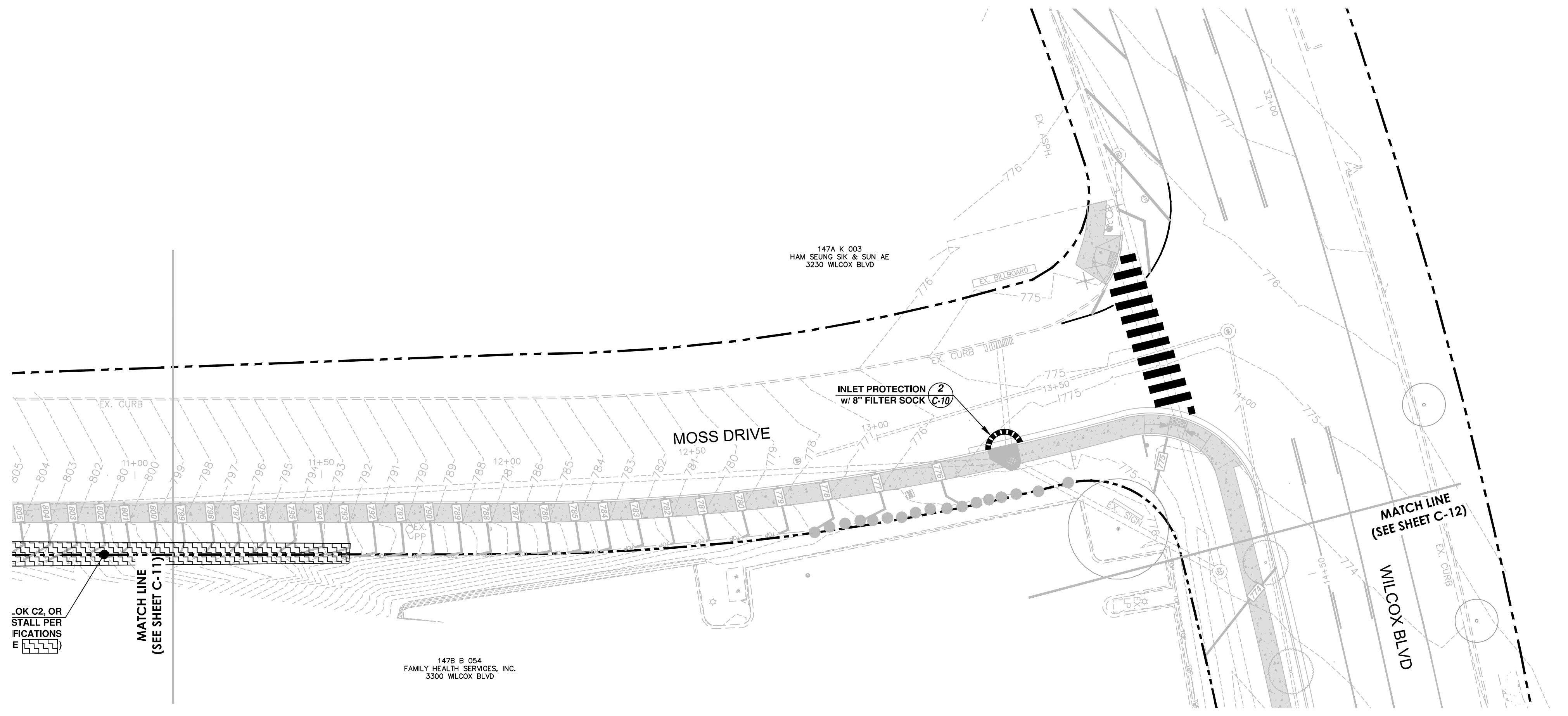
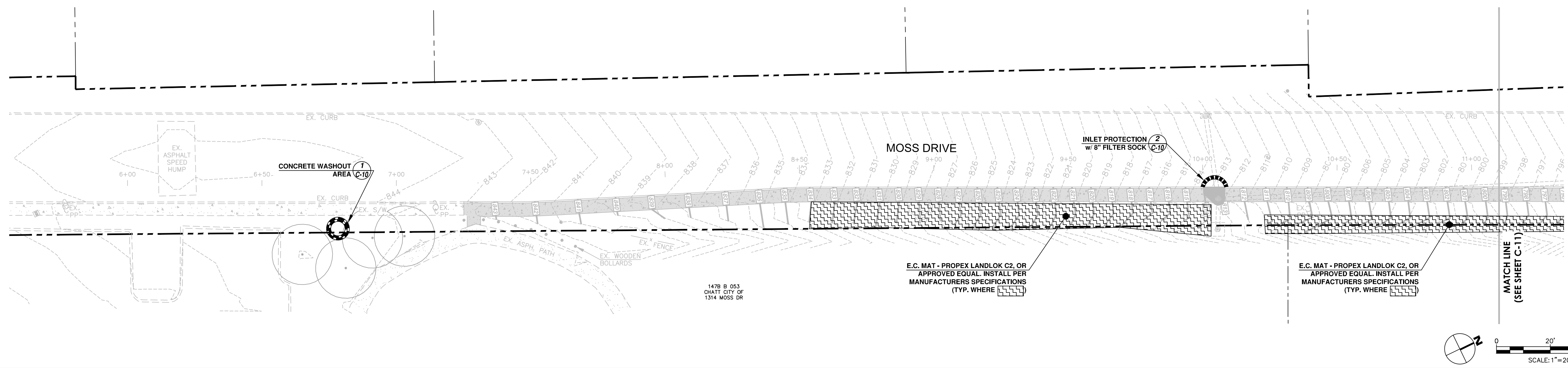
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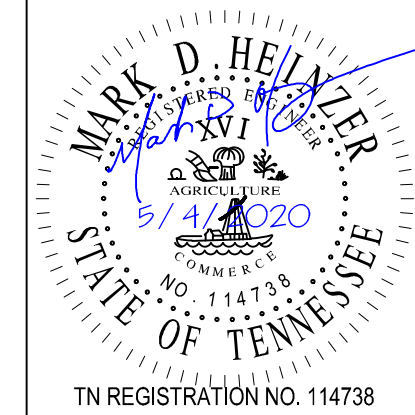


# MOSS DRIVE SIDEWALKS

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

## EROSION CONTROL PLAN

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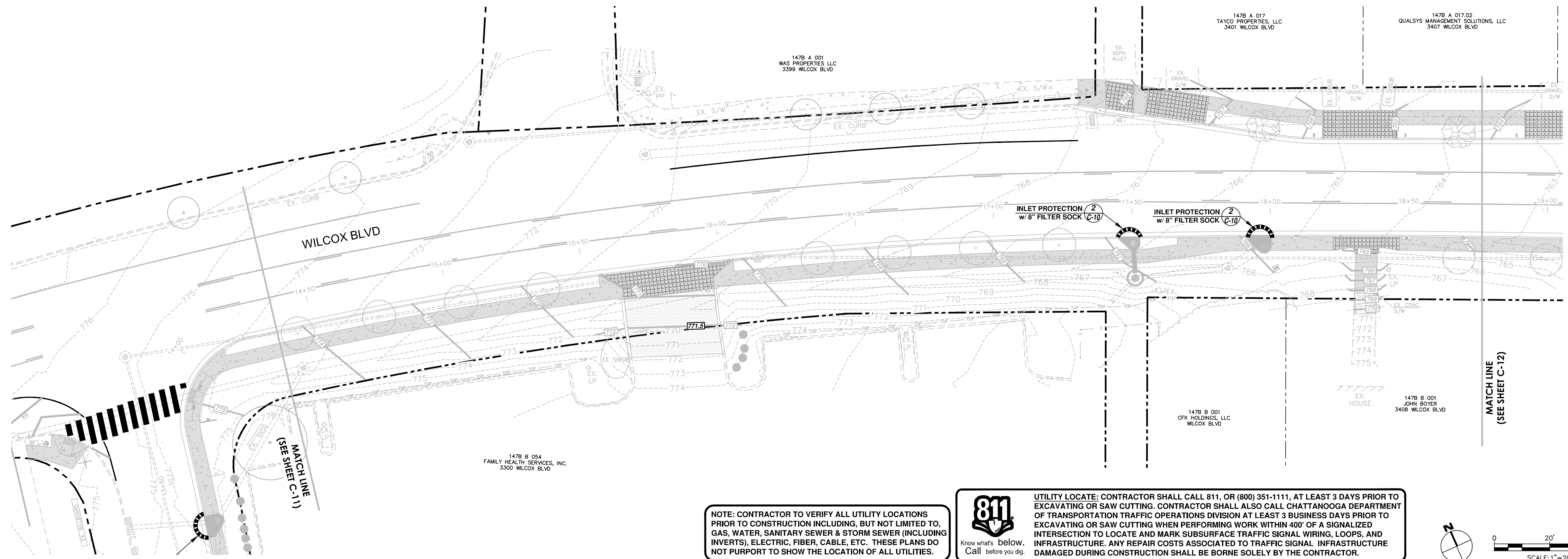


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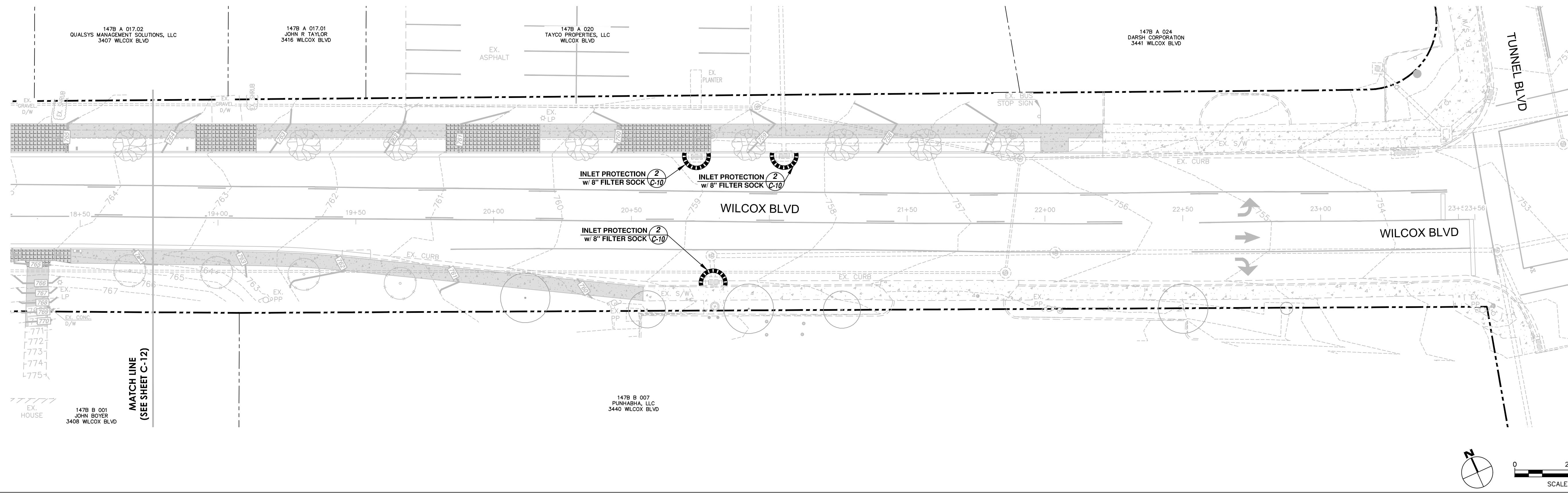
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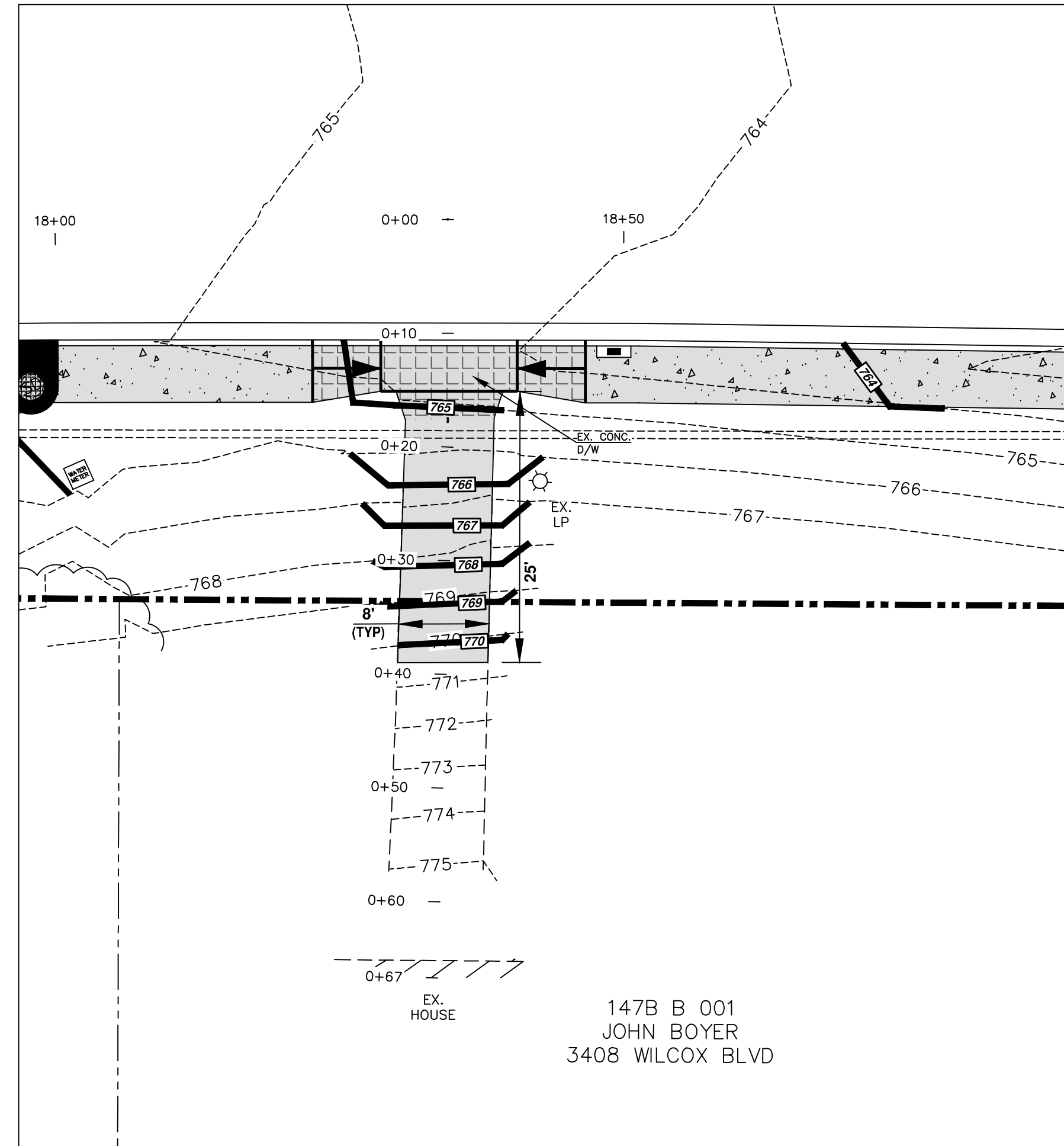
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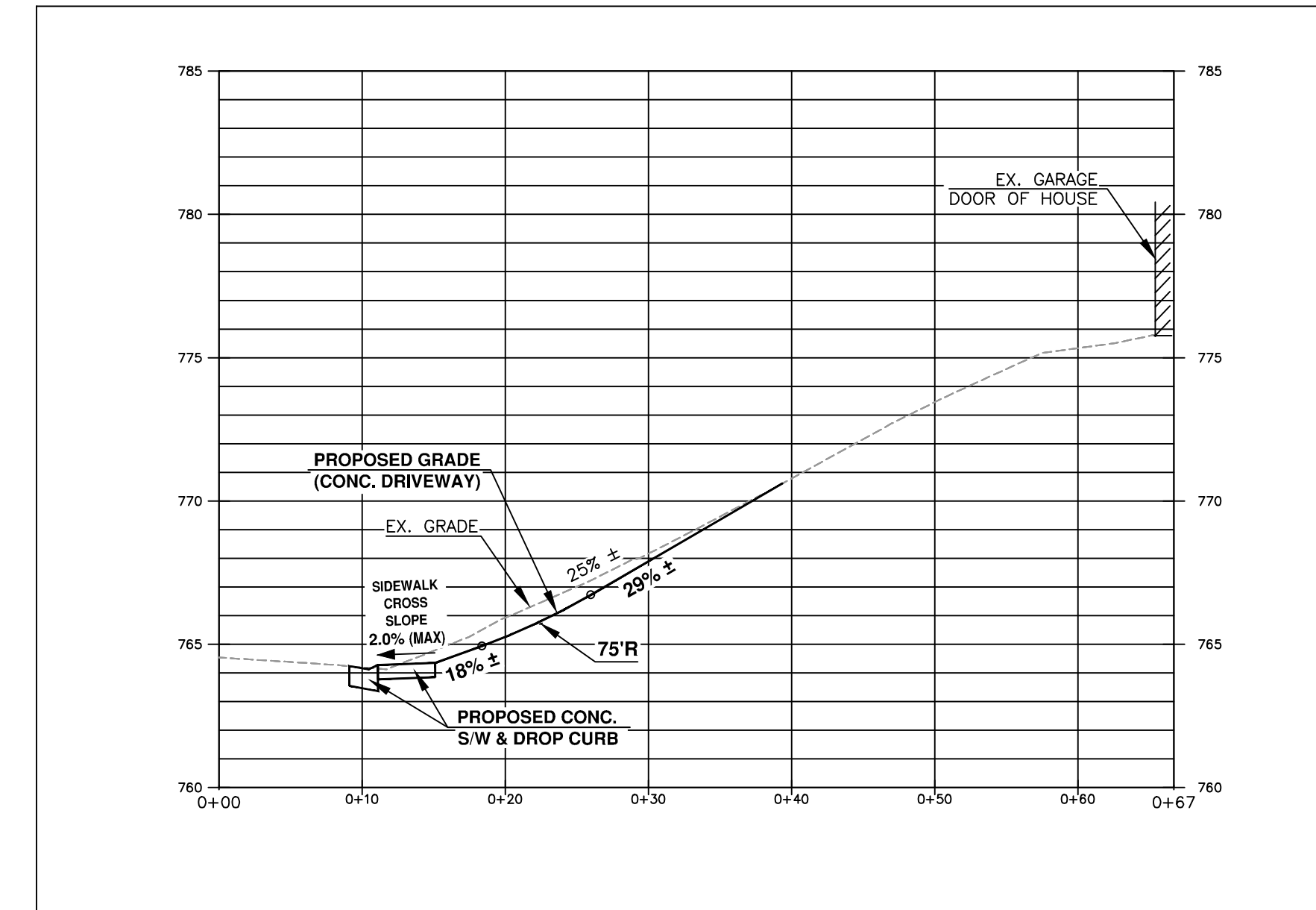
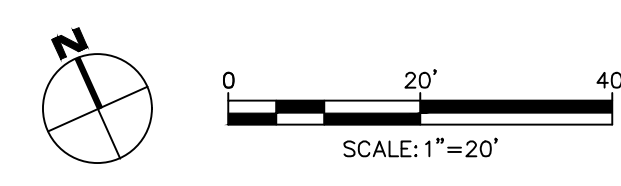


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DRIVEWAY PLAN VIEW

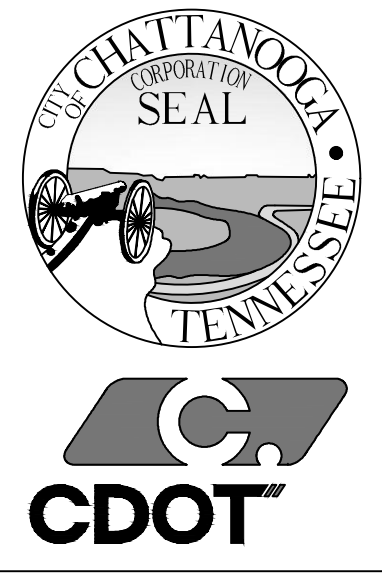


DRIVEWAY PROFILE VIEW  
HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 5'

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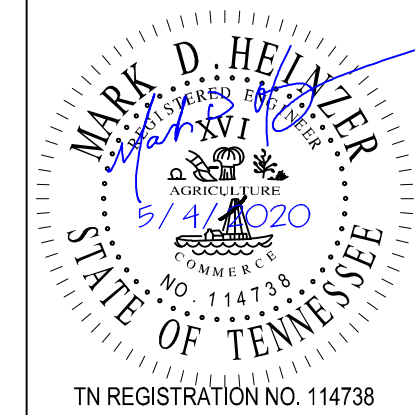
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# MOSS DRIVE SIDEWALKS

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
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## DRIVEWAY PLAN & PROFILE

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**PLANTING NOTES:**

- SOIL SHALL BE FREE OF ALL DEBRIS, CONSTRUCTION MATERIAL, AND SLURRY. ALL LANDSCAPE & TURF AREAS SHALL BE BACKFILLED WITH PLANTING SOIL MIXTURE PER DETAILS AND SPECIFICATIONS.
- SUBSTITUTIONS SHALL NOT BE MADE UNLESS DRAWINGS AND/OR WRITTEN REQUESTS ARE SUBMITTED TO THE DESIGN PROFESSIONAL FOR APPROVAL. THE DESIGN PROFESSIONAL ALONE SHALL DETERMINE EQUALITY BASED UPON COMPLETE INFORMATION SUBMITTED BY THE CONTRACTOR.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE INITIATION OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND UTILITIES DURING THE LIFE OF THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE INCURRED DURING THE EXECUTION OF HIS WORK.
- SEE SPECIFICATIONS FOR PLANTING SOIL MIXTURES AND DEPTH OF MIXTURE(S).
- ALL PLANT AREAS SHALL HAVE A MINIMUM 3" LAYER OF PINE BARK MULCH.
- THE CONTRACTOR SHALL VERIFY THE QUANTITIES LISTED IN THE PLANT LEGEND. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PLANTS SHOWN ON PLANTING PLANS. IN CASE OF DISCREPANCIES THE LANDSCAPE ARCHITECT SHOULD BE CONTACTED.
- ALL PLANT MATERIAL TO BE A.N.L.A. OR BETTER.
- ALL PLANT MATERIAL SHALL MEET THE SIZE REQUIREMENT AS STATED ON THE PLANT LIST. ALL DIMENSION ON THE PLANT LIST SHALL BE THE MINIMUM ACCEPTABLE SIZE.
- THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY LOCATION. OWNER'S REPRESENTATIVE WILL DECIDE FINAL APPROVAL OF ALL PLANT MATERIAL DELIVERED TO THE PROJECT SITE.
- THE OWNER'S REPRESENTATIVE MAY MAKE SELECTION OF PLANT MATERIAL PROCURED UNDER THIS PROJECT AT THE PLACE OF CULTIVATION BEFORE THE CONTRACTOR PURCHASES AND PREPARES FOR DELIVERY TO PROJECT SITE. THE CONTRACTOR IS TO RETAIN AND SUBMIT CERTIFICATION TAGS VERIFYING TYPE AND PURITY.
- WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE INTENTIONS OF THESE DRAWINGS, SPECIFICATIONS AND SUBMITTED SAMPLES. ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE OF BEST QUALITY AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- ALL PLANTS SHALL BE OF SELECTED SPECIMEN QUALITY, EXCEPTIONALLY HEAVY, DENSE WITH A NATURALISTIC BRANCHING CHARACTER AS INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- SEE PLANTING PLAN AND PLANT LIST FOR PLANT MATERIAL PROCUREMENT. QUANTITY ESTIMATES ON THE PLANTING PLAN AND PLANT LIST ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL FURNISH ALL QUANTITIES NECESSARY TO COMPLETE THE PLANTING AREAS AS SHOWN ON THE DRAWINGS TO THE ACCEPTANCE AND SATISFACTION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL REPORT TO THE OWNER'S REPRESENTATIVE SHOULD THERE BE CHANGES IN THE PLANTING AREAS ON SITE RESULTING IN SUBSTANTIAL DIFFERENCE IN QUANTITIES AND SPECIES REQUIRED.
- PLANTING PLANS INDICATE DIAGRAMMATIC LOCATIONS ONLY. SITE ADJUSTMENTS OF PLANTING DESIGN AND RELOCATION OF PLANT MATERIAL INSTALLED PRIOR TO OWNER'S REPRESENTATIVE APPROVAL SHALL BE DONE WITHOUT PENALTY OR ADDITIONAL COST TO OWNER. STAKE PLANT LOCATIONS AT SITE AND OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL PRIOR TO PLANT INSTALLATION.
- THE CONTRACTOR SHALL STAKE TREE AND PLANT LOCATION AND NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL OF LOCATIONS PRIOR TO DIGGING PITS. MAKE ADJUSTMENTS AS DIRECTED BY OWNER'S REPRESENTATIVE.
- UTILITIES: THE CONTRACTOR SHALL DETERMINE LOCATION OF ALL ABOVE GRADE AND UNDERGROUND UTILITIES; PERFORM WORK THAT WILL AVOID DAMAGE TO UTILITIES. THE CONTRACTOR SHALL MAKE GOOD ALL DAMAGED UTILITIES AT NO COST TO OWNER.
- CONTRACTOR TO DO PERCOLATION TESTS IN AREAS TO BE PLANTED; NOTIFY DESIGN PROFESSIONAL OF ANY POOR DRAINAGE. PROVIDE SUPPLEMENTAL PIT DRAINAGE AS REQUIRED TO ENSURE HEALTHY PLANT MATERIALS.
- IF DRAINAGE IS NOT SUFFICIENT NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING BEFORE INSTALLING THE PLANTS, OTHERWISE CONTRACTOR SHALL BE RESPONSIBLE FOR THE GUARANTEE AND LIVEABILITY OF THE PLANT.
- PLACE PLANTS UPRIGHT AND TURNED SO THAT THE MOST ATTRACTIVE SIDE IS VIEWED.
- REMOVE WIRE BASKET FROM ROOTBALLS. IF REMOVAL WILL RESULT IN ROOTBALL INJURY, CUT AND REMOVE WIRES ONCE IN HOLE TO ALLOW FOR ROOT EXPANSION.
- SOIL/MULCH SAUCERS TO BE 6" (MIN.) DIAMETER FOR ALL TREES NOT INCLUDED WITHIN A MULCH BED.
- STAKING AND GUYING DETAILS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY, THE CONTRACTOR IS RESPONSIBLE TO ADEPT STAKING AND GUYING METHOD ACCORDING TO SITE CONDITIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE STAKING AND GUYING PERIODICALLY AS NECESSARY OR AS INSTRUCTED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN PLANT MATERIAL IN AN UPRIGHT POSITION AT ALL TIMES DURING THE CONTRACT PERIOD.
- THE PURPOSE OF STAKING AND GUYING OF TREES ARE FOR ESTABLISHMENT ONLY. THE STAKING AND GUYING DETAILS ARE NOT DESIGNED OR ENGINEERED TO WITHSTAND STRONG WIND OR WIND-STORM CONDITIONS.
- PROVIDE A CLEAN, SHARP TRENCH EDGING, 7" WIDE AT SHRUB BEDS ADJACENT TO LAWN AREAS UNLESS OTHERWISE NOTED.
- PROVIDE 3" THICK MULCH (MEASURED AFTER WATERING IN) AT ALL PLANTS AND PLANTING BEDS. MULCH SHALL BE PINE STRAW UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR "ROLLING" ALL SOD THAT IS INSTALLED (ON THE DAY THE SOD IS INSTALLED.) HOWEVER, NO SOD SHALL BE LAID WHERE THE GRADE IS NOT CORRECT.
- PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS AS A RESULT OF TRANSPLANTING OPERATION AND TO MAINTAIN SAFETY IN VEHICULAR AREAS. PRUNING SHALL BE DONE IN SUCH A MANNER AS TO NOT CHANGE THE NATURAL HABIT OR SHAPE OF THE PLANT. ALL CUTS SHALL BE MADE FLUSH, LEAVING NO STUBS ACCORDING TO A.N.L.A. STANDARDS. THE OWNER'S REPRESENTATIVE SHALL BE THE SOLE PARTY TO APPROVE ALL APPROPRIATE PRUNING.
- THE CONTRACTOR'S FIELD SUPERVISOR SHALL ACCOMPANY OWNER'S REPRESENTATIVE ON ALL PLANT TAGGING AND SITE VISITS.
- CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH THESE DRAWINGS, SPECIFICATIONS AND INSTRUCTIONS PROVIDED BY THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AS NECESSARY TO EXECUTE AND COMPLETE PROPOSED LANDSCAPE/IRRIGATION INSTALLATION IN A TIMELY MANNER COMPLYING WITH THE SCHEDULED COMPLETION DATE.
- MAINTENANCE WORK AS DESCRIBED IN THE SPECIFICATIONS SHALL BE PERFORMED TO THE SATISFACTION OF THE ENGINEER AND UNTIL DATE OF THE FINAL ACCEPTANCE BY OWNER AND OWNER'S REPRESENTATIVE.
- WARRANTY: ALL PLANTS SHALL BE WARRANTED TO REMAIN ALIVE AND HEALTHY AND IN VIGOROUSLY THRIVING CONDITION FOR A MINIMUM PERIOD OF 1 YEAR FROM DATE OF FINAL ACCEPTANCE AS DESCRIBED IN THE SPECIFICATIONS.
- PLANT MATERIAL WILL BE INSTALLED PER AMERICAN NURSERY & LANDSCAPE ASSOCIATION RECOMMENDATIONS.

**HANDLING AND PLANTING INSTRUCTIONS:**

**LOADING AND UNLOADING:**

- ALWAYS LIFT AND MOVE TREES BY STRAPPING ON THE ROOT BALL.
- IMMEDIATELY AFTER UNLOADING, STAND THE TREES UP. THIS WILL REDUCE THE RISK OF SUNSCALD. PROPERLY STAGED TREES ARE STANDING, UNTIED, AND SPACED.
- MONITOR MOISTURE IN THE ROOT BALL BY PROBING THE SOIL WITH A SOIL PROBE AND MANAGE SUPPLEMENTAL IRRIGATION ACCORDINGLY. BE CAREFUL NOT TO OVER OR UNDER IRRIGATE.
- REMOVE THE CARDBOARD TRUNK PROTECTOR WITHIN 48 HOURS TO REDUCE THE RISK OF INSECT DAMAGE.

**PLANTING CARE:**

- BEFORE PLANTING, REMOVE ANY PLASTIC WRAP AND CIRCLING ROOTS FROM THE ROOT BALL.
- EXCAVATE PLANTING HOLE AT LEAST TWO TIMES THE DIAMETER OF, AND 2" SHALLOWER THAN THE ROOT BALL.
- PLACE ROOT BALL AT A LEVEL WHERE THE TRUNK FLARE WILL BE 2" ABOVE SURROUNDING FINISHED GRADE AFTER SETTLING.
- SATURATE THE PLANTING HOLE WITH WATER AFTER BACKFILL IS 1/2 COMPLETE TO AID REMOVAL OF AIR FROM BACKFILL.

TREE SPECIFICATIONS					
SYMBOL	QTY.	COMMON NAME	BOTANICAL NAME	SIZE/HEIGHT WHEN PLANTED	SPACING
WO	8	WILLOW OAK	QUERCUS PHELLOS	2.5" CALIPER MIN. ***	SEE PLANS
WK	4	WINTER KING HAWTHORN	CRATAEGUS VIRIDIS 'WINTER KING'	2.5" CALIPER MIN. ***	SEE PLANS
BG	9	BLACK GUM	NYSSA SYLVATICA	2.5" CALIPER MIN. ***	SEE PLANS

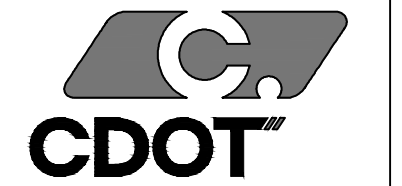
\*\*\* TREES TO BE SINGLE STEM AND CLEAR TRUNK FOR 5' UP TO FIRST BRANCH

NOTE: VERGE AREA (AREA BETWEEN SIDEWALK AND CURB) AND ALL OTHER DISTURBED AREA BEHIND THE SIDEWALK SHALL BE SEEDED AND STRAWED.



UTILITY LOCATE: CONTRACTOR SHALL CALL 811, OR (800) 351-1111, AT LEAST 3 DAYS PRIOR TO EXCAVATING OR SAW CUTTING. CONTRACTOR SHALL ALSO CALL CHATTANOOGA DEPARTMENT OF TRANSPORTATION TRAFFIC OPERATIONS DIVISION AT LEAST 3 BUSINESS DAYS PRIOR TO EXCAVATING OR SAW CUTTING WHEN PERFORMING WORK WITHIN 400' OF A SIGNALIZED INTERSECTION TO LOCATE AND MARK SUBSURFACE TRAFFIC SIGNAL WIRING, LOOPS, AND INFRASTRUCTURE. ANY REPAIR COSTS ASSOCIATED TO TRAFFIC SIGNAL INFRASTRUCTURE DAMAGED DURING CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR.

NOTE: CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SANITARY SEWER & STORM SEWER (INCLUDING INVERTS), ELECTRIC, FIBER, CABLE, ETC. THESE PLANS DO NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES.



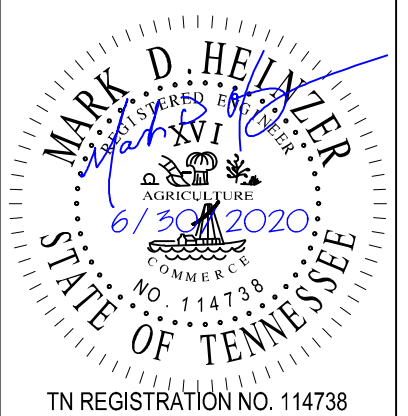
ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

**MOSS DRIVE SIDEWALKS**

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

**LANDSCAPE PLAN**

DATE:	5/4/2020
DRAWN:	GMH
CHECKED:	CHAT
REVISIONS	
1	6/30/20: CITY COMMENTS
2	
3	
4	
5	

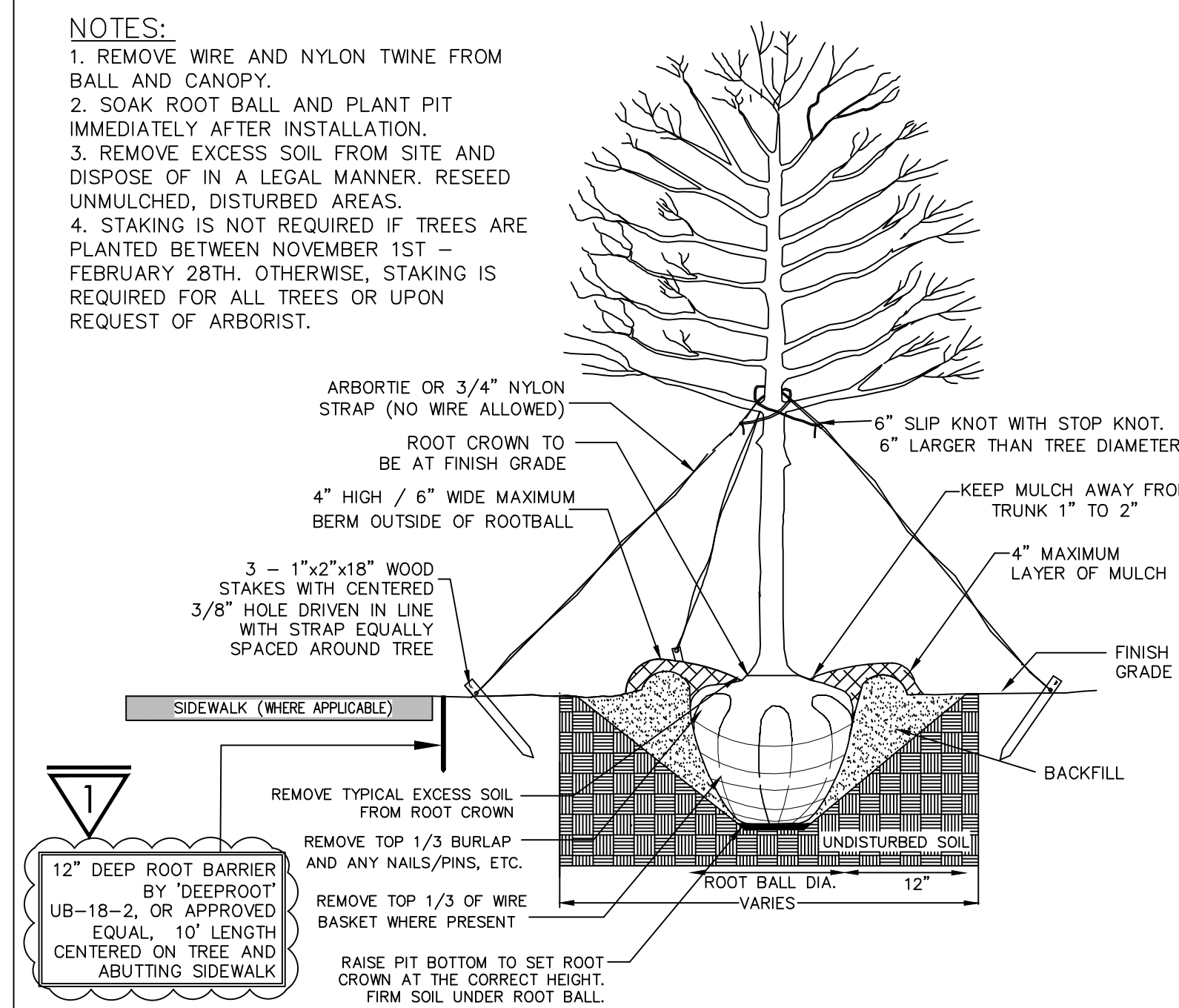


TN REGISTRATION NO. 114738

REVISIONS (6/30/2020): 1) ADDED TREE PROTECTION FENCE. 2) REVISED ROOT BARRIER SPECIFICATION IN TREE PLANTING DETAIL.

**NOTES:**

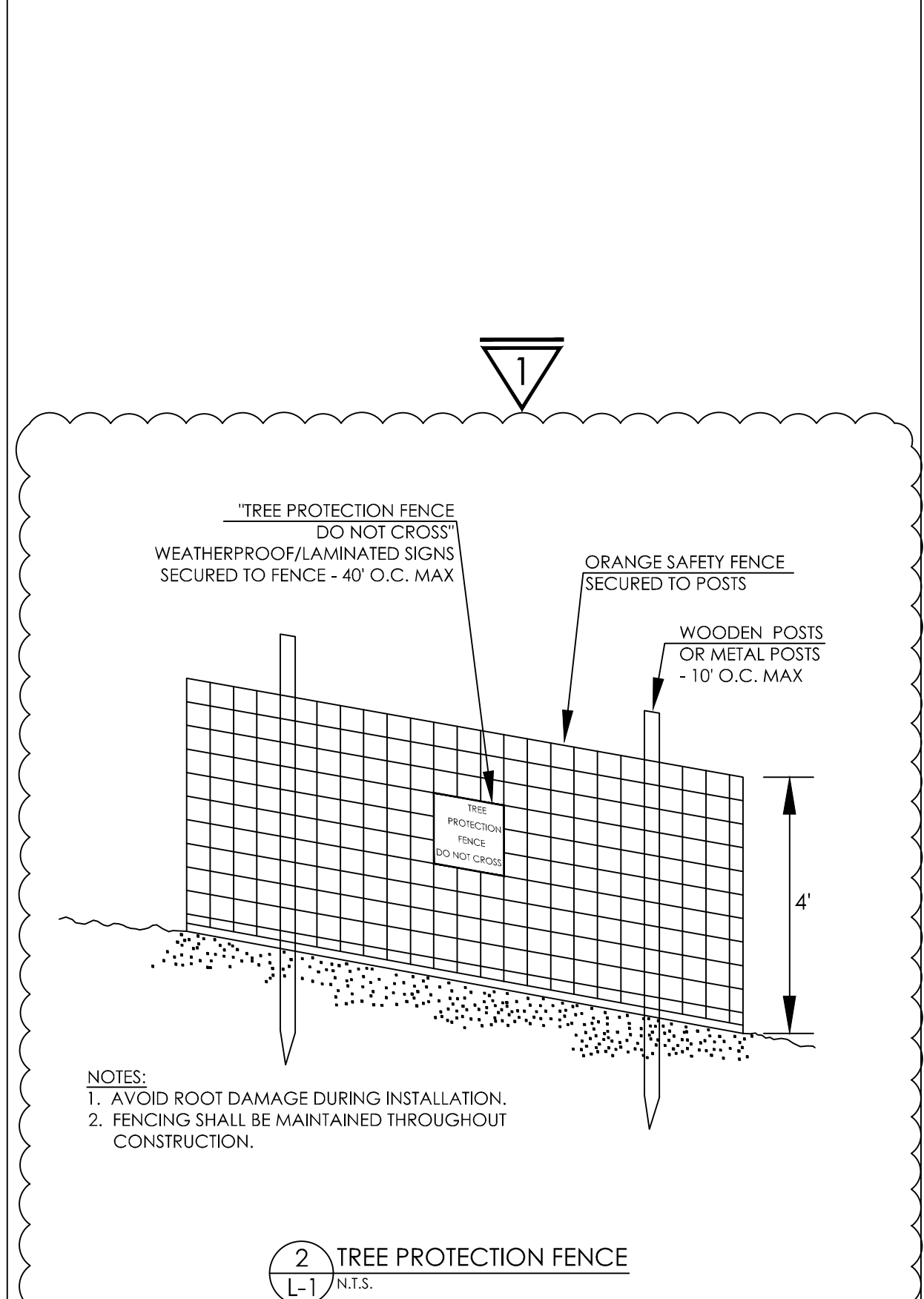
- REMOVE WIRE AND NYLON TWINE FROM BALL AND CANOPY.
- SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
- REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER. RESEED UNMULCHED, DISTURBED AREAS.
- STAKING IS NOT REQUIRED IF TREES ARE PLANTED BETWEEN NOVEMBER 1ST - FEBRUARY 28TH. OTHERWISE, STAKING IS REQUIRED FOR ALL TREES OR UPON REQUEST OF ARBORIST.



ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004) FOR EXAMPLE:

CALIPER	HEIGHT (RANGE)	MAX. HEIGHT	MIN. ROOT BALL DIA.	MIN. ROOT BALL DEPTH
2"	12-14'	16'	24"	16"
3"	14-16'	18'	32"	21"

1 TREE PLANTING DETAIL



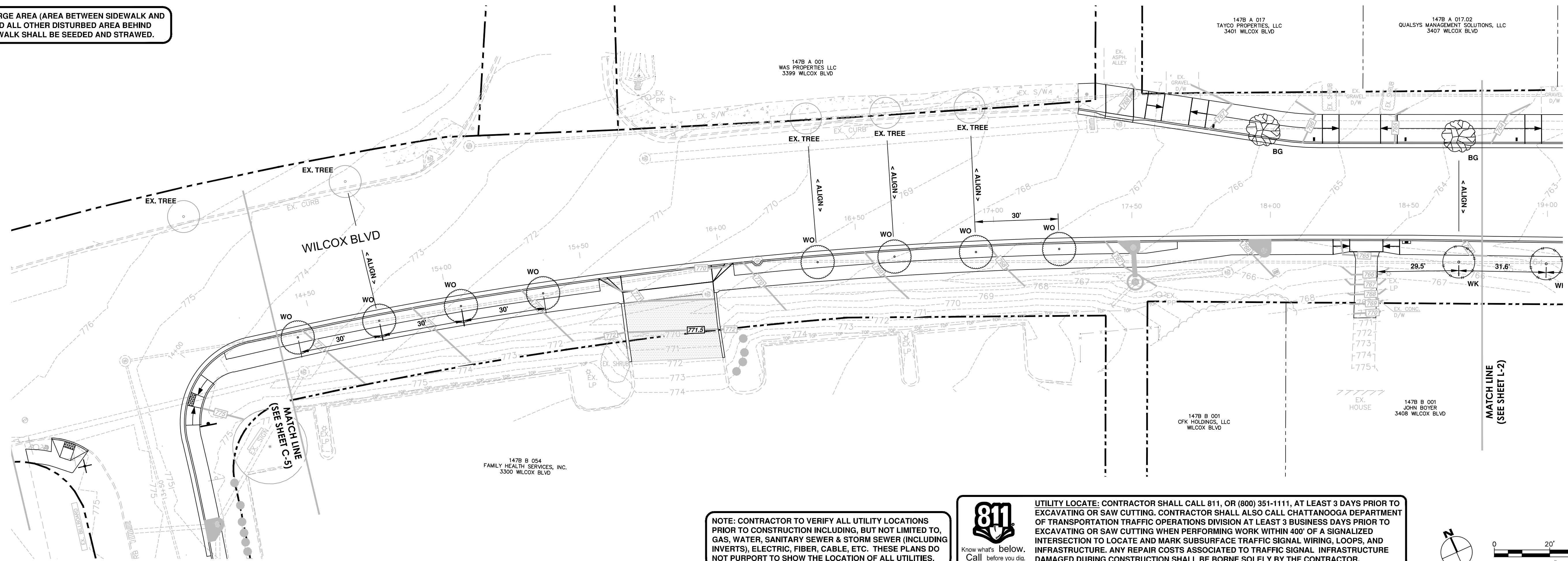
- NOTES:
- AVOID ROOT DAMAGE DURING INSTALLATION.
  - FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

2 TREE PROTECTION FENCE

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NOTE: VERGE AREA (AREA BETWEEN SIDEWALK AND CURB) AND ALL OTHER DISTURBED AREA BEHIND THE SIDEWALK SHALL BE SEEDED AND STRAWED.



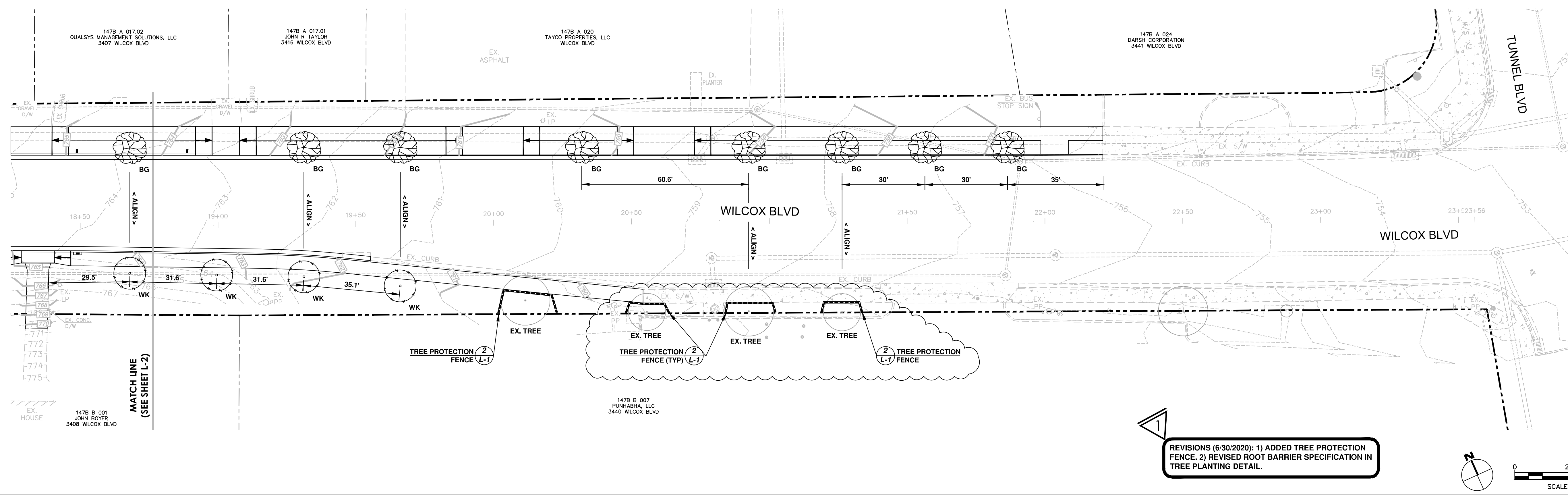
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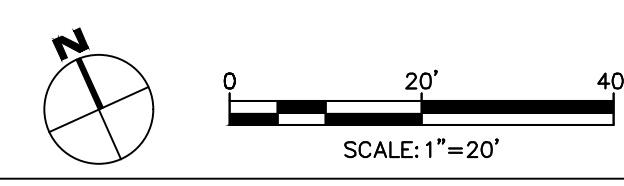
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REVISIONS (6/30/2020): 1) ADDED TREE PROTECTION FENCE. 2) REVISED ROOT BARRIER SPECIFICATION IN TREE PLANTING DETAIL.



ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

# MOSS DRIVE SIDEWALKS

CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

## LANDSCAPE PLAN

DATE:	5/4/2020
DRAWN:	GMH
CHECKED:	CHAT
REVISIONS	
1	6/30/20: CITY COMMENTS
2	
3	
4	
5	

MARK D. HEINZER  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF TENNESSEE  
NO. 114738  
TN REGISTRATION NO. 114738

L-2

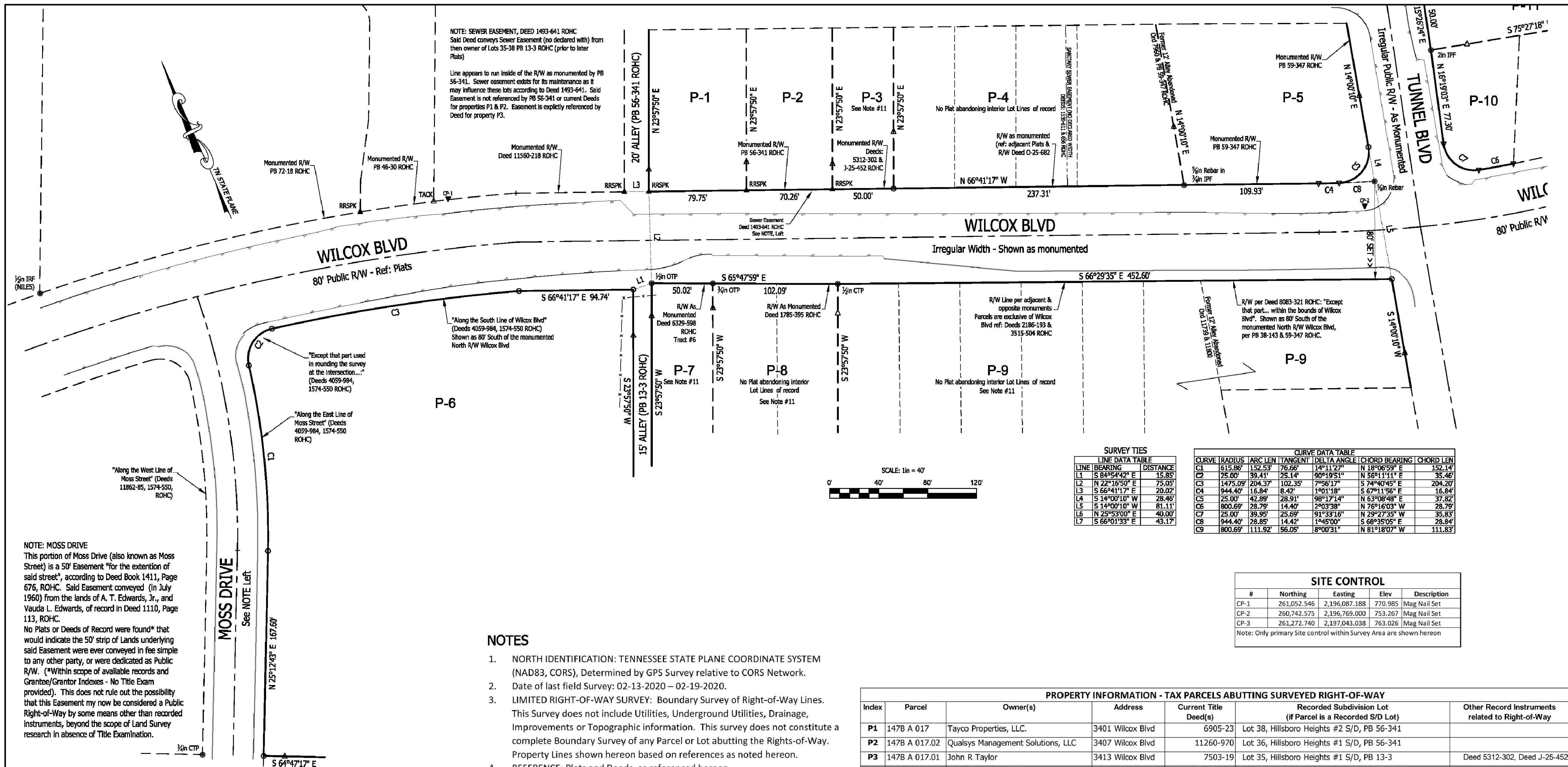


**RIGHT-OF-WAY OF WILCOX BOULEVARD**  
Between Moss Drive & Tunnel Boulevard  
Chattanooga, Hamilton County, Tennessee

**BOUNDARY SURVEY**

SHEET NO.

C-14



NOTE: SEWER EASEMENT, DEED 1493-641 ROHC  
Said Deed conveys Sewer Easement (no declared width) from  
then owner of Lots 35-38 PB 13-3 ROHC (prior to later  
Plats)  
Line appears to run inside of the R/W as monumented by PB  
56-341. Sewer easement exists for its maintenance as it  
may influence these lots according to Deed 1493-641. Said  
Easement is not referenced by PB 56-341 or current Deeds  
for properties P1 & P2. Easement is explicitly referenced by  
Deed for property P3.

Monumented R/W  
PB 72-18 ROHC

Monumented R/W  
PB 46-30 ROHC

Monumented R/W  
Deed 11560-218 ROHC

Monumented R/W  
PB 56-341 ROHC

Monumented R/W  
Deeds: 5312-302 &  
J-25-452 ROHC

Monumented R/W  
PB 59-347 ROHC

Monumented R/W  
PB 59-347 ROHC

WILCOX BLVD  
80' Public R/W - Ref: Plats

WILCOX BLVD  
Irregular Width - Shown as monumented

TUNNEL BLVD  
Irregular Public R/W - As Monumented

WILCOX BLVD  
80' Public R/W

"Along the South Line of Wilcox Blvd"  
(Deeds 4059-984, 1574-550 ROHC)  
Shown as 80' South of the monumented  
North R/W Wilcox Blvd

"Except that part used  
in rounding the survey  
at the intersection..."  
(Deeds 4059-984,  
1574-550 ROHC)

"Along the East Line of  
Moss Street" (Deeds  
4059-984, 1574-550  
ROHC)

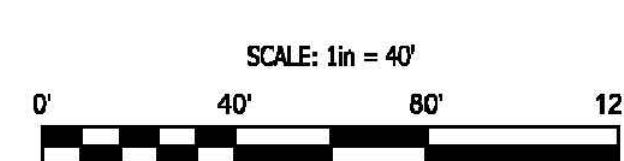
"Along the West Line of  
Moss Street" (Deeds  
11862-85, 1574-550,  
ROHC)

**SURVEY TIES**

LINE	BEARING	DISTANCE
L1	S 84°54'42" E	15.85'
L2	N 22°16'50" E	75.05'
L3	S 66°41'17" E	20.02'
L4	S 14°00'10" W	28.46'
L5	S 14°00'10" W	81.11'
L6	N 25°53'00" E	40.00'
L7	S 66°01'33" E	43.17'

**CURVE DATA TABLE**

CURVE	RADIUS	ARC LEN	TANGENT	DELTA ANGLE	CHORD BEARING	CHORD LEN
C1	615.86'	152.53'	76.66'	14°11'27"	N 18°06'59" E	152.14'
C2	25.00'	39.41'	25.14'	90°19'51"	N 56°11'11" E	35.46'
C3	1475.09'	204.37'	102.35'	7°56'17"	S 74°40'45" E	204.20'
C4	944.40'	16.84'	8.42'	1°01'18"	S 67°11'56" E	16.84'
C5	25.00'	42.89'	28.91'	88°17'14"	N 63°08'48" E	37.82'
C6	800.69'	28.79'	14.40'	2°03'38"	N 76°16'03" W	28.79'
C7	25.00'	39.55'	25.69'	91°33'16"	N 29°27'35" W	35.83'
C8	944.40'	28.85'	14.42'	1°45'00"	S 68°35'05" E	28.84'
C9	800.69'	111.92'	56.05'	8°00'31"	N 81°18'07" W	111.83'



**SITE CONTROL**

#	Northing	Easting	Elev	Description
CP-1	261,052.546	2,196,087.188	770.985	Mag Nail Set
CP-2	260,742.575	2,196,769.000	753.267	Mag Nail Set
CP-3	261,272.740	2,197,043.038	763.026	Mag Nail Set

Note: Only primary Site control within Survey Area are shown hereon

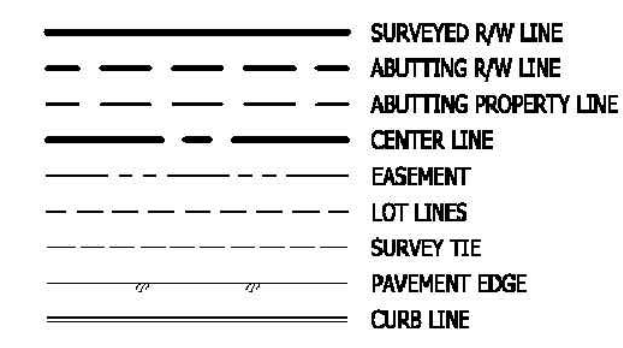
**NOTE: MOSS DRIVE**  
This portion of Moss Drive (also known as Moss Street) is a 50' Easement "for the extension of said street", according to Deed Book 1411, Page 676, ROHC. Said Easement conveyed (in July 1960) from the lands of A. T. Edwards, Jr., and Vauda L. Edwards, of record in Deed 1110, Page 113, ROHC.  
No Plats or Deeds of Record were found\* that would indicate the 50' strip of Lands underlying said Easement were ever conveyed in fee simple to any other party, or were dedicated as Public R/W. (\*Within scope of available records and Grantee/Grantor Indexes - No Title Exam provided). This does not rule out the possibility that this Easement may now be considered a Public Right-of-Way by some means other than recorded instruments, beyond the scope of Land Survey research in absence of Title Examination.

**NOTES**

- NORTH IDENTIFICATION: TENNESSEE STATE PLANE COORDINATE SYSTEM (NAD83, CORS), Determined by GPS Survey relative to CORS Network.
- Date of last field Survey: 02-13-2020 – 02-19-2020.
- LIMITED RIGHT-OF-WAY SURVEY: Boundary Survey of Right-of-Way Lines. This Survey does not include Utilities, Underground Utilities, Drainage, Improvements or Topographic information. This survey does not constitute a complete Boundary Survey of any Parcel or Lot abutting the Rights-of-Way. Property Lines shown hereon based on references as noted hereon.
- REFERENCE: Plats and Deeds, as referenced hereon
- No Right-of-Way Plans were found. All Rights-of-Way are shown according to Record Instruments and found monumentation.
- Former internal Lot Lines, Parcel Lines and Alleys which have been abandoned by Recorded Plats, City Ordinances or other instruments are not shown hereon.
- Internal Lot Lines of record, which have not been abandoned by a subsequent Record Plat, are shown hereon
- Property Information Table: See table for all relevant information. "Plat" References are provided for properties that are currently a Lot recorded in a Hamilton County Record Plat. This Survey does not address the relationship of abutting Tax Parcels to unrecorded surveys or plats, or earlier superseded plats.
- Property Information Table also lists, where applicable, prior Deeds or other Plats which contain information relevant to the Rights-of-Way shown hereon.
- Title Examination was not available at time of Survey. Easements and related matters of record in the immediate vicinity of the Surveyed Right-of-Way are shown hereon.
- Parcels referenced by this note: Current Deed of Conveyance for these Parcels convey property as "Lot(s) per Plat" but omit statements present in the prior Deeds relevant to the Right-of-Way of Wilcox Blvd. Specific applicable Deeds for said parcels listed in Property Information Table.
- Plat closure error ratio: Exceeds 1:15,000.
- The extent of land surveyed herein does not lie in any Special Flood Hazard Area, ref: FEMA FIRM Panel 47065C0361G, dated 02-03-2016.

**LEGEND**

- IRON ROD SET
- ▽ MAG NAIL & DISK SET
- ▲ NAIL & DISK SET
- IRON ROD FOUND
- ◎ IRON PIPE FOUND
- ▲ RAILROAD SPIKE FOUND SEE TABLES
- ▼ SITE CONTROL (SEE TABLES)
- R/W RIGHT-OF-WAY
- IRF IRON ROD FOUND
- IPF IRON PIPE FOUND
- OTF OPEN TOP PIPE FOUND
- CTP CROWN TOP PIPE FOUND
- RSPK RAILROAD SPIKE FOUND
- ROHC REGISTERED OFFICE, HAMILTON COUNTY, TENNESSEE
- DEED ###-###-### ROHC TYPICAL: DEED BOOK ###, PAGE ###, ROHC
- PC ###-###-### ROHC TYPICAL: PLAT BOOK ###, PAGE ###, ROHC



**Surveyor's Certification**

I certify that I have surveyed the property shown hereon; that the survey is correct to the best of my knowledge and belief; and that the ratio of precision of the unadjusted survey is > 1:15,000. This is a category 1 Survey.



Dixon G. Brackett TN R.L.S. Reg. No. 2494  
4510 Turntable Rd, Suite 120  
Chattanooga, TN 37421

**PROPERTY INFORMATION - TAX PARCELS ABUTTING SURVEYED RIGHT-OF-WAY**

Index	Parcel	Owner(s)	Address	Current Title Deed(s)	Recorded Subdivision Lot (if Parcel is a Recorded S/D Lot)	Other Record Instruments related to Right-of-Way
P1	147B A 017	Tayco Properties, LLC.	3401 Wilcox Blvd	6905-23	Lot 38, Hillsboro Heights #2 S/D, PB 56-341	
P2	147B A 017.02	Qualsys Management Solutions, LLC	3407 Wilcox Blvd	11260-970	Lot 36, Hillsboro Heights #1 S/D, PB 56-341	
P3	147B A 017.01	John R Taylor	3413 Wilcox Blvd	7503-19	Lot 35, Hillsboro Heights #1 S/D, PB 13-3	Deed 5312-302, Deed J-25-452
P4	147B A 020	Tayco Properties, LLC.	Wilcox Blvd	6258-671 Tract 1	Lots 31-34, Hillsboro Heights #1 S/D, PB 13-3	Deed O-25-682
P5	147B A 024	Darsh Corporation	3441 Wilcox Blvd	8887-591	Lots 28-31, Hillsboro Heights #1 S/D, PB 59-347	
P6	147B B 054	Family Health Services, Inc	3300 Wilcox Blvd	4059-984		Deed 1411-676, Deed 1574-550
P7	147B B 001	CFK Holdings, LLC	Wilcox Blvd	6329-597 Tract 6	Lot 13, Hillsboro Heights #1 S/D, PB 13-3	
P8	147B B 002	John Boyer	3408 Wilcox Blvd	1785-395	Lot 14-15, Hillsboro Heights #1 S/D, PB 13-3	
P9	147B B 007	Punhabha, LLC	3440 Wilcox Blvd	8083-321, 324	Lots 16-21, 24-26, Hillsboro Heights #1 S/D, PB 13-3	Deed 2186-193, 3515-504
P10	147B D 013.01	Mohamad Ayad	3455 Wilcox Blvd	7632-836	Lots 15 Hillsboro Heights #2 S/D, PB 38-143	
P11	147B D 014	Jerrilyn D Simmons	1604 Tunnel Blvd	3174-297	Lot 13, Hillsboro Heights #1 S/D, PB 38-143	
P12	147B D 015	Hickorytree, LLC	1700 Tunnel Blvd	11397-190	Lot 12, Hillsboro Heights #2 S/D, PB 14-48	
P13	147B D 016	Edward Lebron and Vickey Stickland	1702 Tunnel Blvd	2956-822	Lot 11, Hillsboro Heights #2 S/D, PB 14-48	
P14	147B D 017	George Armani and Edward Porter	1704 Tunnel Blvd	11323-72	Lot 10, Hillsboro Heights #2 S/D, PB 14-48	
P15	147B D 018	Gabriela and Noah, LLC	1706 Tunnel Blvd	10149-170	Lot 9, Hillsboro Heights #2 S/D, PB 14-48	
P16	147B D 019	Joan E Guy	1708 Tunnel Blvd	5278-872	Lot 8, Hillsboro Heights #2 S/D, PB 14-48	
P17	147B D 020	Michael Dixon	1710 Tunnel Blvd	3381-716	Lot 7, Hillsboro Heights #2 S/D, PB 14-48	
P18	147B D 021	MJP Properties, LLC	1712 Tunnel Blvd	11524-143	Lot 6, Hillsboro Heights #2 S/D, PB 14-48	
P19	147B D 022	Vicki Walker	1714 Tunnel Blvd	9681-409	Lot 5, Hillsboro Heights #2 S/D, PB 14-48	
P20	147B D 023	Danyel Tiefenbacher	1800 Tunnel Blvd	9925-22	Lot 4, Hillsboro Heights #2 S/D, PB 14-48	
P21	147B D 024	Cleon Coleman	1802 Tunnel Blvd	9336-876	Lot 3, Hillsboro Heights #2 S/D, PB 14-48	
P22	147B D 025	Michael J Doyle	1804 Tunnel Blvd	8873-309	Lot 2, Hillsboro Heights #2 S/D, PB 14-48	
P23	147B D 026	Robert and Lee Austin	1810 Tunnel Blvd	2956-822	Lot 1, Hillsboro Heights #2 S/D, PB 14-48	
P24	1370 C 001	Robert and Ruby Austin	1812 Tunnel Blvd	4478-271		PB 14-10 ROHC
P25	1370 C 002	High Pointe Properties, LLC	1814 Tunnel Blvd	8148-781		PB 14-10 ROHC
P26	1370 C 003	Kenneth and Jerome Johnson	1816 Tunnel Blvd	3833-120		PB 14-10 ROHC

REVISIONS  
DRAWN: NB  
DESTIN: N/A  
APPROVED: DGB  
DWG. NO: 20-003 R/W BNDY  
DATE: 03-13-2020  
SCALE: 1" = 40'  
PROJECT NO: 20-003

## Master Bid Schedule

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
<b>1</b>	<b><u>Common Excavation</u></b>				
<b>1-A</b>	<b>Common Excavation</b>	150	CY		
<b>1-B</b>	<b>Backfill/Borrow Excavation</b>	670	CY		
<b>1-C</b>	<b>Undercut and Remove Unsuitable Material</b>	95	CY		
<b>2</b>	<b><u>Rock Excavation</u></b>				
<b>2-A</b>	<b>Rock Excavation</b> - Boulders, Stones or Pieces of Masonry that are one-half cubic yard or larger in volume, Sound, solid rock in its original position in ledges, bedded deposits or masses of such hardness and texture that, in the opinion of the Engineer meet the requirements of this specification.	3	CY		
<b>12</b>	<b><u>Bituminous Plant Mix</u></b>				
<b>12-A</b>	<b>Asphaltic Concrete Binder, Grading "B"</b> , includes primecoat, 2.5-inch depth, (Complete-in-place).	1000	SF		
<b>12-B</b>	<b>Asphaltic Concrete Binder, Grading "B"</b> , includes primecoat, 3.5-inch depth, (Complete-in-place).	465	SF		
<b>12-C</b>	<b>Asphaltic Concrete Surface, Grading "E"</b> , includes tackcoat, 1.5-inch depth, (Complete-in-place).	1465	SF		
<b>12-D</b>	<b>Asphalt Driveway Pad</b> - Includes up to 8.5"Excavation, 6" Mineral aggregate base (Type 'A', Grading "D"), 2.5" Grading 'E' Topping (Complete-in-place).	300	SF		
<b>14</b>	<b><u>Mineral Aggregate &amp; Base</u></b>				
<b>14-A</b>	<b>Mineral Aggregate Base</b> , 100% Compaction Std. Proctor, Type 'A', Grading "D", 8-inch depth, (Complete-in-place).	1000	SF		
<b>14-B</b>	<b>Mineral Aggregate Base</b> , 100% Compaction Std. Proctor, Type 'A', Grading "D", 15-inch depth, (Complete-in-place).	465	SF		
<b>14-C</b>	<b>Cement Treated Mineral Aggregate Base (CTB)</b> , 8" thickness, 5% Portland Cement by dry unit weight, (Complete-in-place).	200	SF		
<b>14-D</b>	<b>No. 57 Washed Stone</b> - For general backfill, pipe backfill, base etc. - placed in 6" lifts - compacted (Complete-in-place).	10	TON		

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
15	<u>Concrete and/or Pavement Removal</u>				
15-A	Demolition and Removal of Existing Concrete Sidewalk (Complete-in-place).	1600	SF		
15-B	Demolition and Removal of Existing Paver Sidewalk (Complete-in-place).	175	SF		
15-C	Demolition and Removal of Existing Concrete Driveway (Complete-in-place).	200	SF		
15-D	Demolition and Removal of Existing Concrete Roadway or Stamped Concrete Crosswalk (Complete-in-place).	2050	SF		
15-E	Demolition and Removal of Existing Asphalt Driveway (Complete-in-place).	2450	SF		
15-F	Demolition and Removal of Existing Asphalt Roadway (Complete-in-place).	22000	SF		
15-G	Demolition and Removal of Existing Curb & Gutter or Detached Curb (Complete-in-place).	1385	LF		
15-H	Saw Cutting (Complete-in-Place)	4095	LF		
15-I	<b>Coring of Stormwater Structure</b> - Includes: coring for up to 30" diameter pipe of any material, necessary excavation, removal & disposal of cored material, sawcutting of structure where necessary, rebuilding of invert or hole surround, grouting in of new pipe, and other Incidentals, etc. (Complete-in-Place)	1	EA		
15-J	<b>Removal/Demolition of Existing Storm Pipe</b> - Includes: removal of up to 30" diameter pipe of any material, necessary excavation and backfill where required, disposal of pipe, sawcutting where necessary, and other Incidentals, etc. (Complete-in-Place)	10	LF		
15-K	<b>Removal/Demolition of Existing Storm Structure</b> - Includes: removal & disposal of storm structure of any material of up to 5 ft. inner diameter, necessary excavation and backfill where required, removal & disposal footing, sawcutting where necessary, and other Incidentals, etc. VF units shall be measured from interior bottom of structure. (Complete-in-Place)	7	VF		

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
<b>16</b>	<b><u>Cement Concrete (Sidewalks, Driveways, Handicap Ramps)</u></b>				
<b>16-A</b>	<b>Concrete Sidewalk, 4-inch thick</b> - Includes Class "A" Concrete portion of ADA Ramps, Adjustment of Handhole boxes & Valve Boxes to finished grade, Excavation up to 6-inch Depth, Base stone, Expansion Joints, Caulk, etc. (Complete-in-Place).	12725	SF		
<b>16-B</b>	<b>Concrete Sidewalk, 6-inch thick</b> - Includes Class "A" Concrete portion of ADA Ramps, Adjustment of Handhole boxes & Valve Boxes to finished grade, Excavation up to 8-inch Depth, Base stone, Expansion Joints, Caulk, etc. (Complete-in-Place).	500	SF		
<b>16-C</b>	<b>Concrete Driveway Apron, 6-inch thick</b> - Includes Class "A" Concrete, Adjustment of Handhole boxes & Valve Boxes to finished grade, Excavation up to 8-inch Depth, Base Stone, Reinforcing Steel, etc. (Complete-in-Place).	3250	SF		
<b>16-D</b>	<b>Concrete Driveway Residential, 6-inch thick</b> - Includes Class "A" Concrete, Excavation up to 10-inch Depth, Base Stone, 6" x 6" - W1.4 W.W.M. Reinforcement, etc. (Complete-in-Place).	1250	SF		
<b>16-E</b>	<b>Integral Color Stamped Concrete, 10-inch thick (SD-504.01) (Colors per SD-503.01), Red or Gray</b> - Includes Installation of 10-Inch thick Class "A" Stamped Concrete (Herringbone Pattern with Soldier Course), 4" Stone Base, Excavation up to 14-inch depth, Expansion Joints, Labor and other Incidentals, etc. Excludes Dowel Steel (Complete-in-place).	1900	SF		
<b>16-F</b>	<b>Truncated Dome Composite Inlay, 'ADA Solutions' Cast-in-Place (non-Replaceable), or approved equal, River Red Color (Per Appendix)</b> - Includes Installation, Labor, and Material. Excludes Handicap Ramp Concrete, (Complete-in-place).	50	SF		
<b>16-G</b>	<b>Truncated Dome Holland Pavers 6 CM Red and Gray (SD-501.01)</b> - Includes Materials, Labor, Excavation, Installation with 90 degree herringbone pattern, 4" Concrete Base, Granite Screening or Riversand for Leveling Course, etc. (Complete-in-place).	100	SF		
<b>16-H</b>	<b>Holland Pavers 6 CM Red and Gray (SD-501.01)</b> - Includes Materials, Installation with soldier course and 90 degree herringbone pattern, Granite Screening or Riversand for Leveling Course, etc. (Complete-in-place).	175	SF		
<b>17</b>	<b><u>Cement Concrete Curb, Gutter, or Combined Curb and Gutter</u></b>				
<b>17-A</b>	<b>City Standard Type 'A' Curb and Gutter (SD-202.01)</b> - Includes excavation, backfill, stone, concrete, etc., (Complete-in-Place).	2145	LF		
<b>17-B</b>	<b>Reverse Slope Curb and Gutter</b> - Includes excavation, backfill, stone, concrete, etc., (Complete-in-Place).	10	LF		
<b>17-C</b>	<b>City Standard Detached Curb (SD-201.01)</b> - Includes excavation, backfill, stone, concrete, etc., (Complete-in-Place).	885	LF		
<b>17-D</b>	<b>Rolled Curb &amp; Gutter (24")</b> - Includes excavation, backfill, stone, concrete, etc., (Complete-in-Place).	20	LF		
<b>17-E</b>	<b>City Standard Extruded Mountable Curb (SD-203.02)</b> - Includes excavation, backfill, stone, concrete, etc., (Complete-in-Place).	50	LF		

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
19	<u>Tree and/or Stump Removal</u>				
19-A	<b>Tree and/or Stump Removal, 4-inch - 12-inch Diameter</b> -Includes multi-trunk trees i.e. crepe myrtle. Multi-trunk tree; measurement of largest trunk shall be taken to determine "Diameter" (Complete-in-place).	1	EA		
19-B	<b>Shrub Row Removal</b> (Complete-in-place).	70	LF		
31	<u>Concrete Pipe for Storm Sewers and Culverts</u>				
31-A	<b>18-inch Reinforced Concrete Pipe</b> - Includes excavation (up to 6-foot depth), bedding, backfill, stone, labor, other incidental, etc., SD-700.01 (Complete-in-Place).	12	LF		
33	<u>Adjusting Manhole Frames</u>				
33-A	<b>Manhole Adjustment/Raise to Finished Grade</b> - Includes Excavation, Backfill, Riser, Concrete, Brick, or any other Incidental, etc., (Complete-in-place).	6	EA		
34	<u>Catch Basins, Curb Inlets, Miscellaneous</u>				
34-A	<b>City Standard (Brick or Precast) Catch Basin with Back</b> (SD-608.01) - Includes Excavation up to 6-foot depth, Bedding, Backfill, Brick, Frame and Grate (SD-608.02), Tie-in to Existing (or New) Storm Pipes/Culverts where applicable, Labor, and other Incidental, etc. (Complete-in-	1	EA		
34-B	<b>Standard Curb Inlet 48-inch Diameter (Left Hand, Right Hand, or Symmetrical)</b> - Includes Excavation up to 6-foot depth, Bedding, Backfill, Concrete or Brick or Precast, Frame and Lid, Tie-in to Existing (or New) Storm Pipes/Culverts where applicable, Labor, and other Incidental, etc. (Complete-in-Place).	1	EA		
34-C	<b>Convert Existing Inlet/Catch Basin Into Junction Box</b> -(SD-301.03 and SD-600.01) - Includes Excavation, Backfill, Concrete or Brick or Precast, Frame and Solid Lid/Casting, Labor, and other Incidental, etc. (Complete-in-Place)	1	EA		
34-D	<b>Convert Existing Catch Basin Into Curb Inlet</b> -(SD-609.01, 609.02, 610.01, 610.02, 610.03, 610.04 ) - Includes Excavation, Backfill, Concrete or Brick or Precast, Custom top where specified, Frame and Solid Lid/Casting, Labor, and other Incidental, etc. (Complete-in-Place)	3	EA		
35	<u>Sodding and/or Seeding</u>				
35-A	<b>Permanent Seeding</b> - Includes all Labor, Fertilizer, Straw and other incidental, etc. (Complete-in-place).	2125	SY		
36	<u>Topsoil</u>				
36-A	<b>Topsoil (3-inch depth)</b> , Includes Labor and other incidental, etc. (Complete-in-place).	2555	SY		

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
98	<u>Slope Protection and Erosion Control</u>				
98-A	<b>8" Wattle/Silt Sock</b> - For use w/ linear barrier filter and/or inlet protection. (Complete-in-place).	2950	LF		
98-B	<b>Erosion Control Blanket (LANDLOK CS or Approved Equal)</b> (Complete-in-place).	2750	SF		
717	<u>Mobilization</u>				
717-A	<b>Mobilization</b> , including bid bond, performance bond, payment bond, permits, traffic control per MUTCD standards, etc.	1	LS		
1720	<u>Project Record Documents</u>				
1720-A	<b>Final As-Built Drawings</b> - Includes AutoCAD (dwg), PDF, and asbuilt form from spec book. For all newly installed storm structures and pipes - Price is Per Structure (Complete-in-Place)	5	EA		
2452	<u>Pavement Markings</u>				
2452-A	<b>Solid - 4" Wide, White or Yellow Alkyd Thermoplastic</b> 60 mil applied by extrusion shoe, with Reflective Beads at 7-9 pounds per 100 square feet of marking material, Includes Labor, Traffic Control, Pre-Marking, etc. (Complete-in-Place)	700	LF		
2452-B	<b>Solid - 6" Wide, White or Yellow Alkyd Thermoplastic</b> 60 mil applied by extrusion shoe, with Reflective Beads at 7-9 pounds per 100 square feet of marking material, Includes Labor, Traffic Control, Pre-Marking, etc. (Complete-in-Place)	800	LF		
2452-C	<b>Continental Crosswalk Striping, 10' Width</b> - 2-2 Skip, Color White, 90 mil applied by extrusion shoe, with Reflective Beads at 7-9 pounds per 100 square feet of marking material, Includes Labor, Traffic Control, Pre-Marking, etc. (Complete-in-Place)	50	LF		
2452-D	<b>Stripe Removal - Grinding (4-6" Line)</b> , per TDOT specification 716-08.01 Includes Labor, Traffic Control, etc. (Complete-in-Place)	470	LF		
2452-E	<b>Symbol Removal - Grinding (Symbol - Arrow, Bike Symbol, or other stand alone symbol)</b> , per TDOT specification 716-08.33 Includes Labor, Traffic Control, etc. (Complete-in-Place)	1	EA		
2810	<u>Trees &amp; Landscaping</u>				
2810-A	<b>Winter King Hawthorn (Crataegus Viridis 'Winter King') 2.5" Caliper</b> - Includes installation, labor, materials, excavation, backfill, mulch, staking, etc. (Complete-in-Place)	4	EA		
2810-B	<b>Willow Oak (Quercus Phellos) 2.5" Caliper</b> - Includes installation, labor, materials, excavation, backfill, mulch, staking, etc. (Complete-in-Place)	8	EA		
2810-C	<b>Black Gum (Nyssa Sylvantica) 2.5" Caliper</b> - Includes installation, labor, materials, excavation, backfill, mulch, staking, etc. (Complete-in-Place)	9	EA		

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
3575	<u>Flowable Controlled Low Strength Material (CLSM)</u>				
3575-A	<b>Flowable Fill</b> , For general backfill, base, pipe backfill, pipe infill for abandon-in-place pipe, etc. (Complete-in-place).	15	CY		
MISC	<u>Miscellaneous Items</u>				
MISC-A	<b>Relocate Existing Water Meter</b> - Per Tennessee American Water Company standards and requirements. Includes required pipe and fittings, and other Incidentals, etc. (Complete-in-Place)	5	EA		
MISC-B	<b>Remove &amp; Dispose of Existing Traffic Sign</b> - Any removed traffic signs, salvagable post, etc shall be returned to CDOT Traffic Ops at 1010 E 11th Street (Complete-in-Place)	2	EA		
MISC-C	<b>Relocate Existing Traffic Sign</b> - (Complete-in-Place)	3	EA		
MISC-D	<b>Root Barrier</b> - 18" (UB-18-2 Root Barrier by 'Deeproot' or approved equal. Installed per manufacturer specifications (Complete-in-Place)	210	LF		
MISC-E	<b>Relocate Existing Guy Wire</b> - Includes new guy wire and sidewalk guy pole if needed (Complete-in-Place)	1	EA		
MISC-E1	<b>New Mailbox, Per Appendix</b> - Includes the removal & disposal of the existing mailbox, post, & footing, the installation a new mailbox, post, & footing. Includes mailbox (standard black), post (treated 4x4), hardware, vinyl letters, excavation & concrete for footing (Complete-in-Place)	7	EA		
MISC-F	<b>Mailbox Relocation</b> - Includes the removal of the existing mailbox, post, & footing, and the re-installation of the existing mailbox, post, & footing at the new location. Includes excavation, concrete for footing, other incidentals, and required materials (Complete-in-Place)	6	EA		
MISC-G	<b>Tree Protection Fence</b> - (Complete-in-Place)	95	LF		
<b>Total Estimate</b>					