

**ADDENDUM No. 3**



## **Area 3 Streetscape: Glass and Dodson**

**Contract Number: T-20-012**

*Chattanooga Department of Transportation*

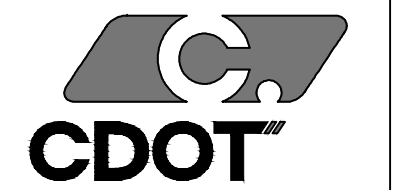
### **Attachments**

- 1.** Full size plan set with LDO revisions with items of note:
  - a.** Added ESPC detail to C2.1
  - b.** Added Erosion Control Plan on Sheet C6
- 2.** Revised bid tab with items of note
  - a.** Increased quantity of Item 98-A with revised description
  - b.** Revised item MISC-C to be 18" Root Barrier per LDO comments

# GLASS STREET & DODSON AVENUE STREETSCAPE IMPROVEMENTS



1250 MARKET STREET, SUITE 3030  
CHATTANOOGA, TENNESSEE 37402  
423.643.5950

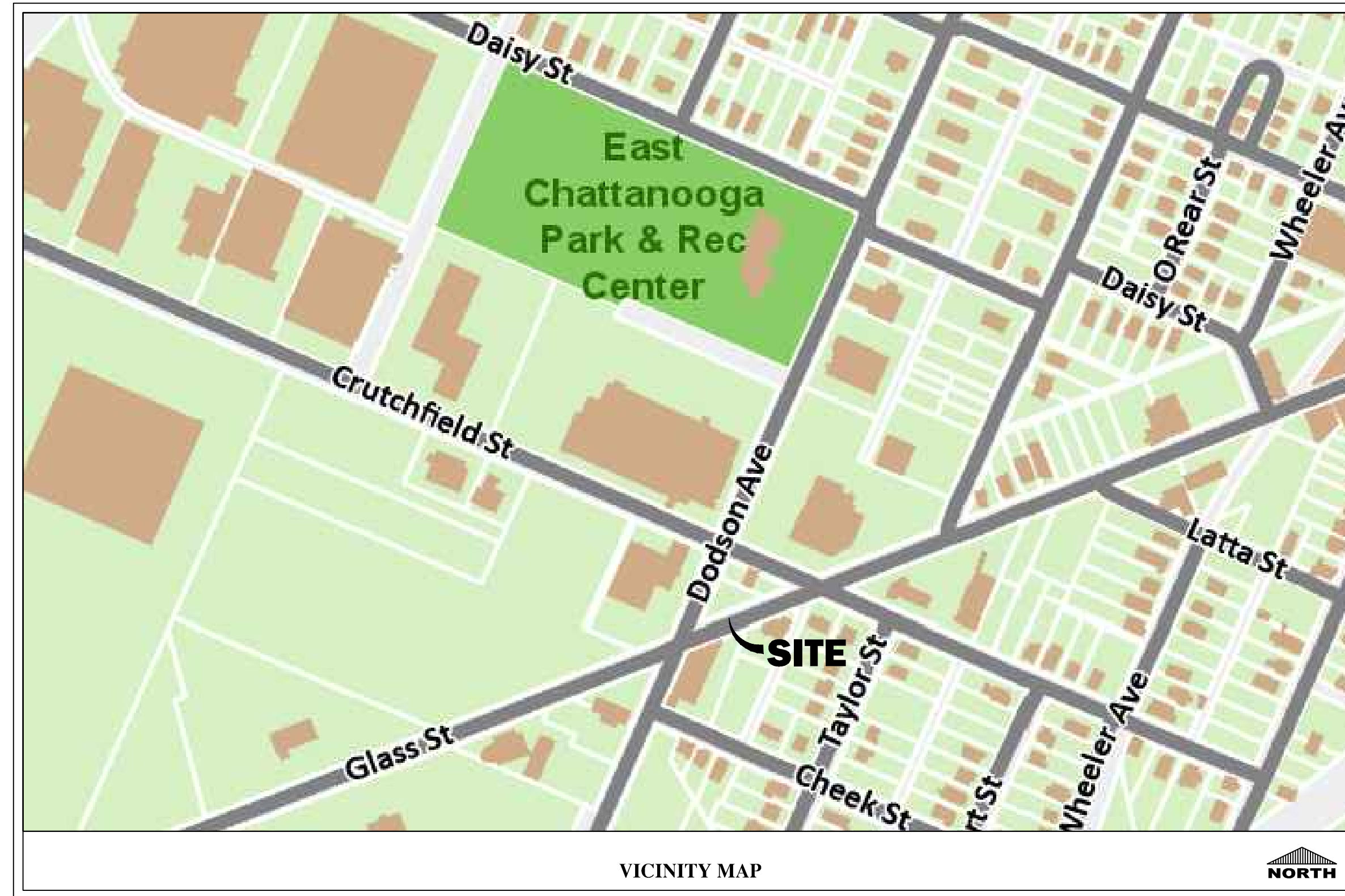


ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

GLASS STREET & DODSON AVENUE  
STREETSCAPE 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, P.E. \_\_\_\_\_ DATE  
CITY TRANSPORTATION ENGINEER  
STATE LICENSE NO. 114738

TOPOGRAPHIC SURVEY COMPLETED BY: CITY OF CHATTANOOGA,  
DATE: 3/11/2016.

BOUNDARY INFORMATION: CHATTANOOGA/H.C. GIS

Total Disturbed Area: \_\_\_\_\_ 0.22 acres  
Pre-Construction Impervious Area: \_\_\_\_\_ 0.22 acres  
Post-Construction Impervious: \_\_\_\_\_ 0.14 acres

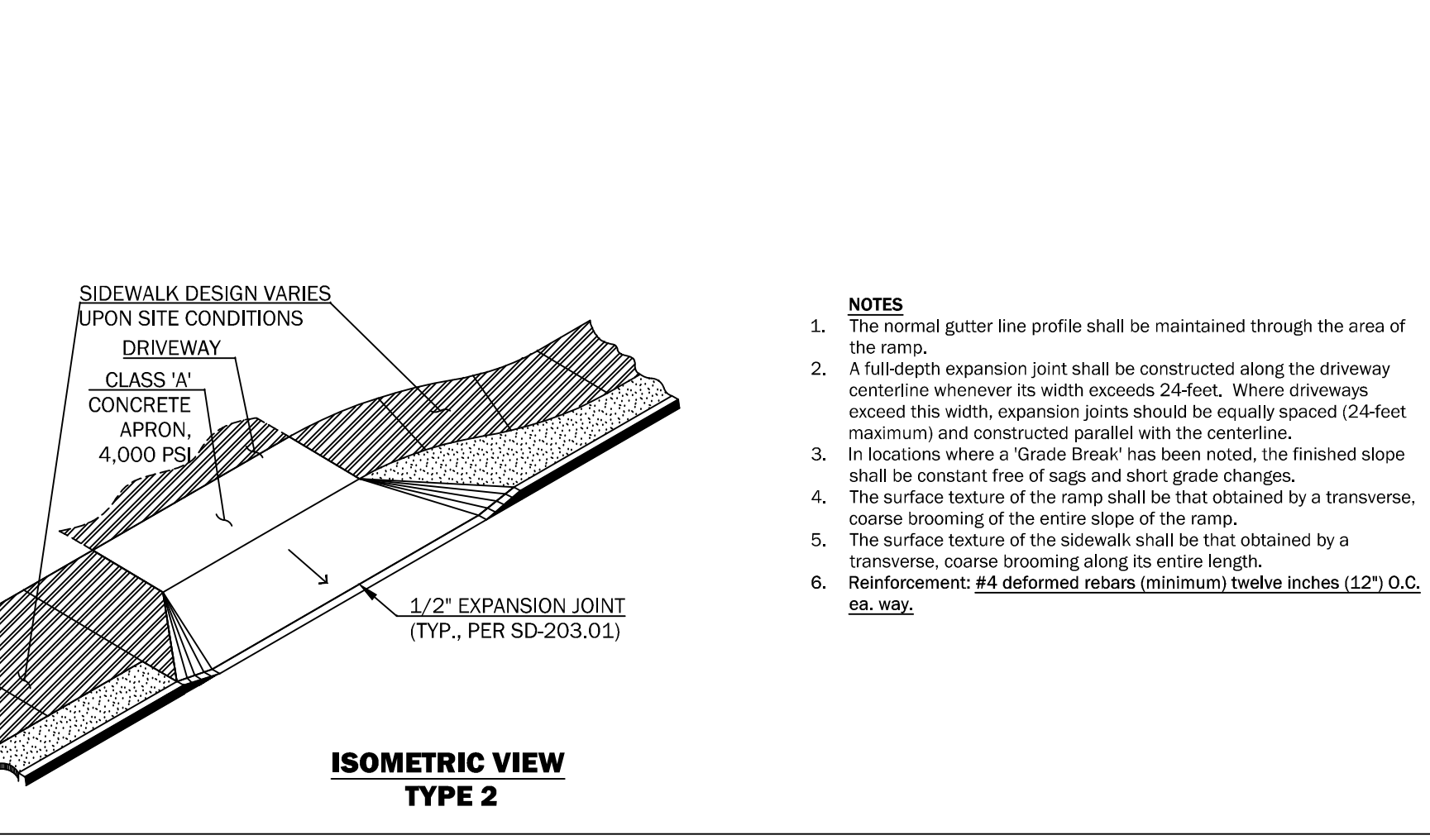
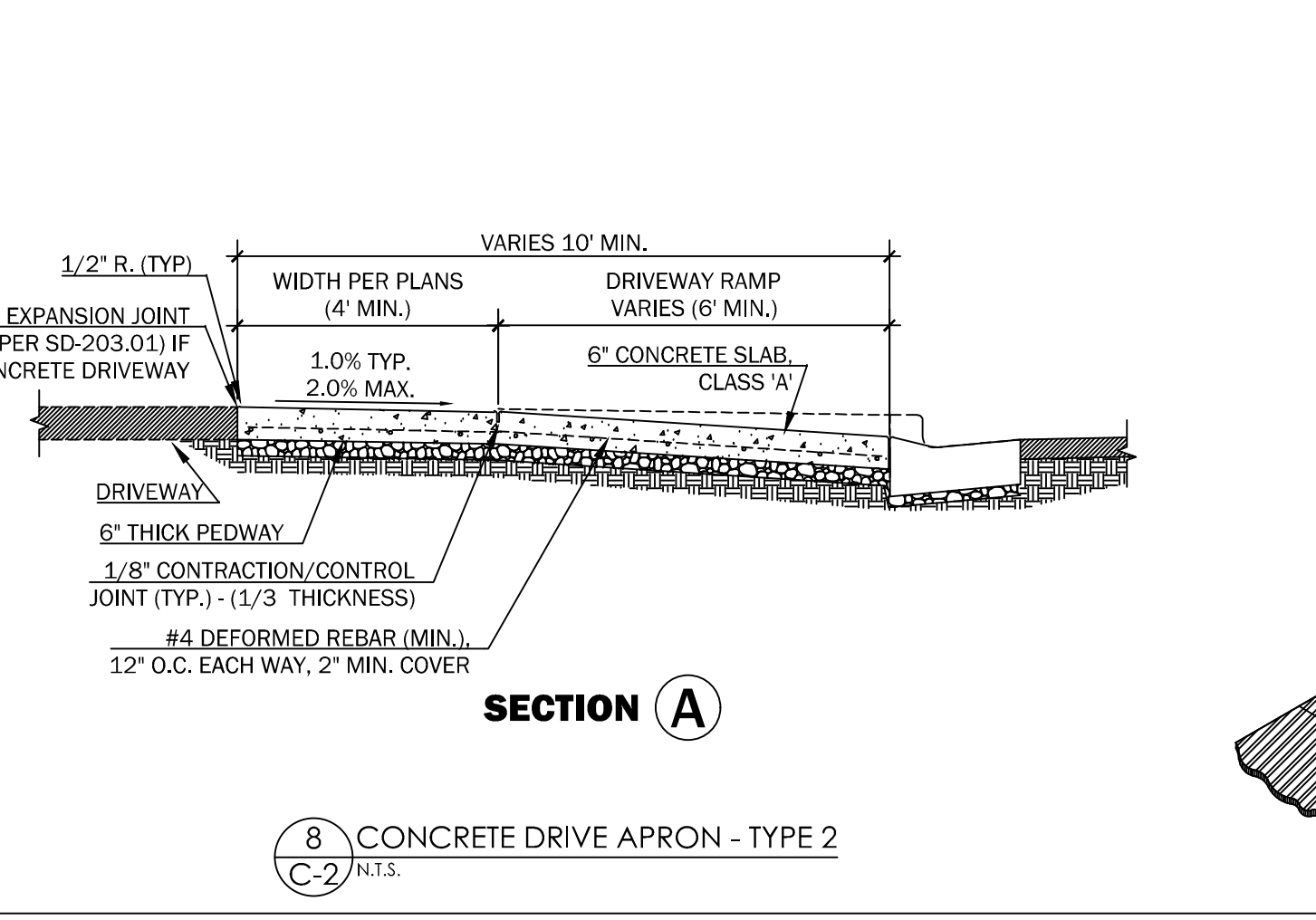
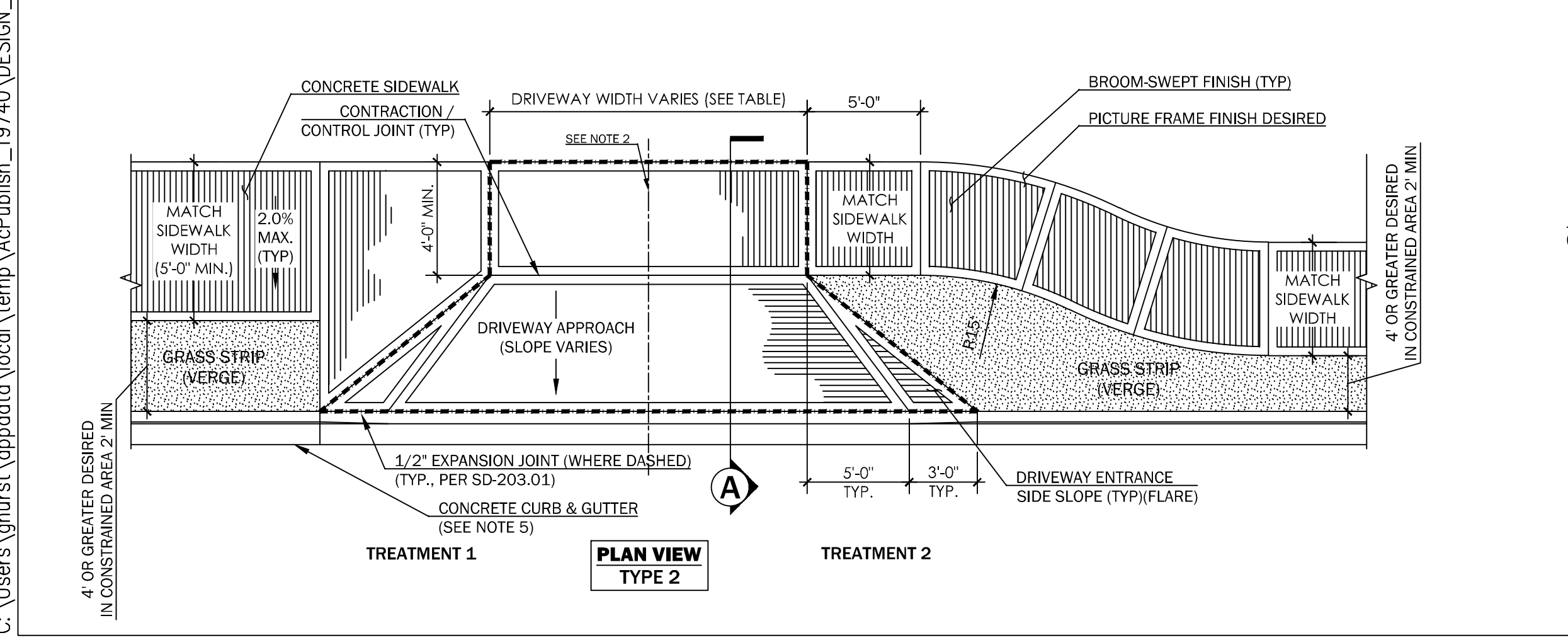
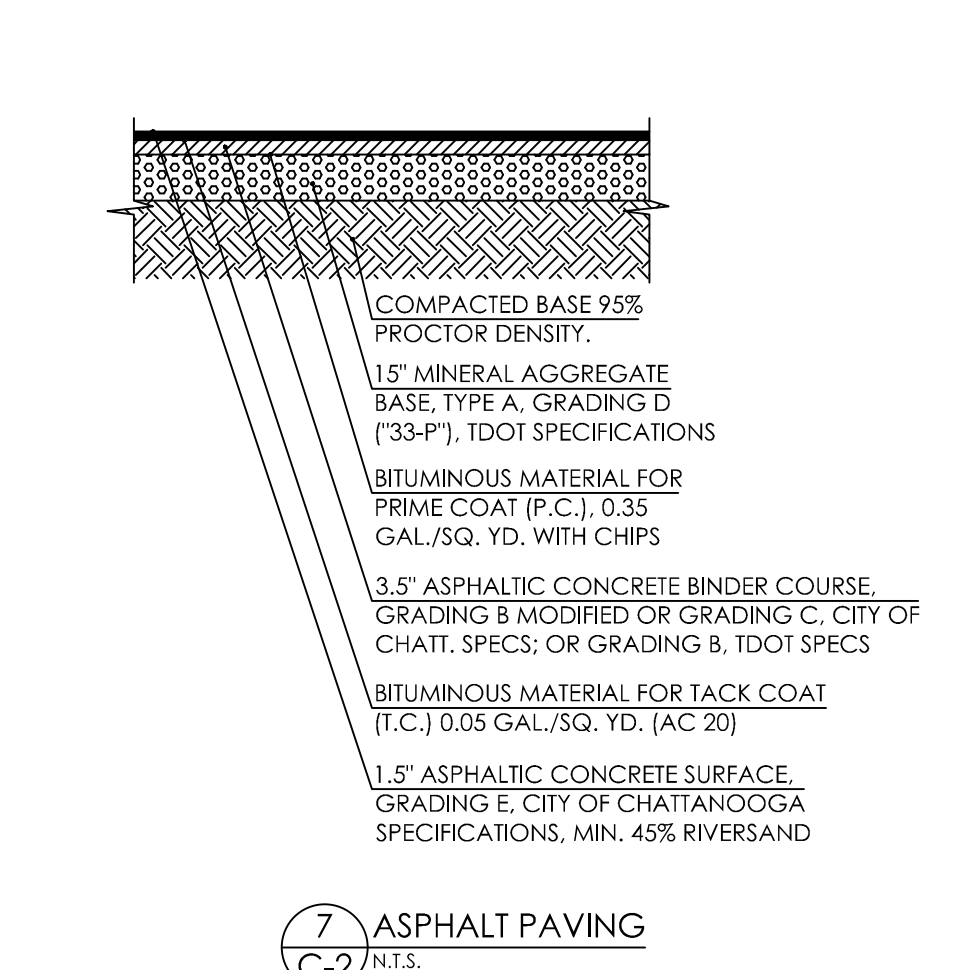
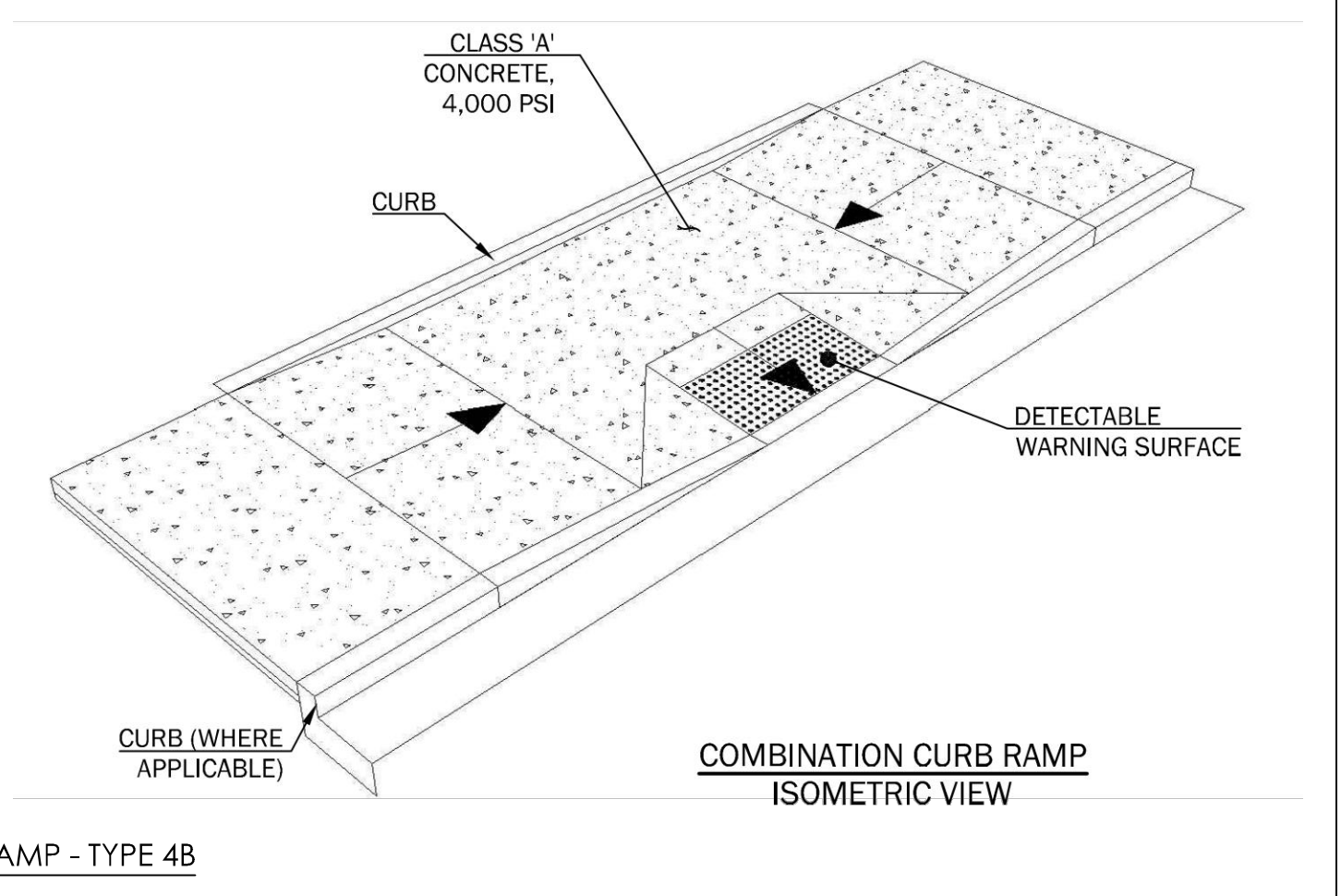
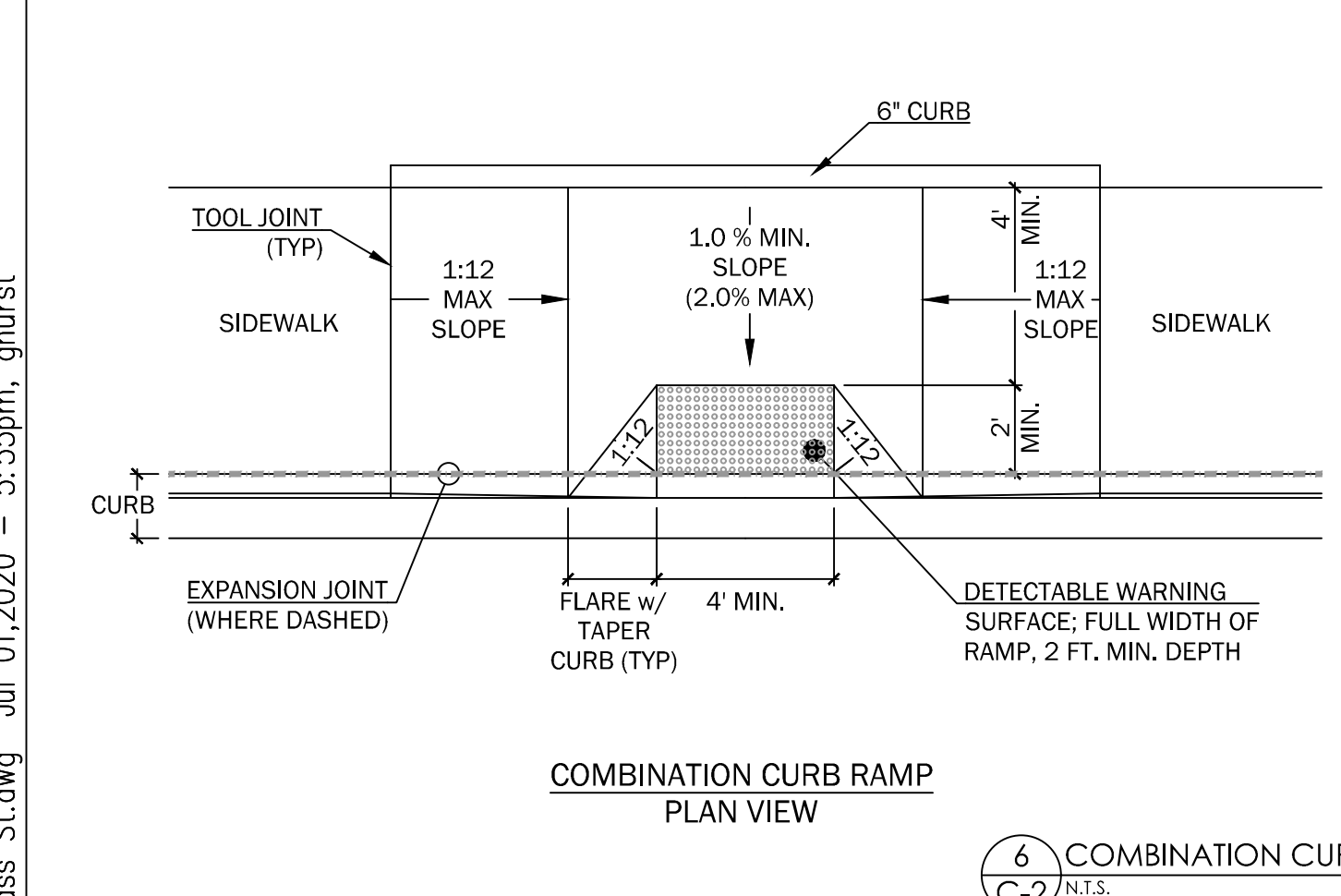
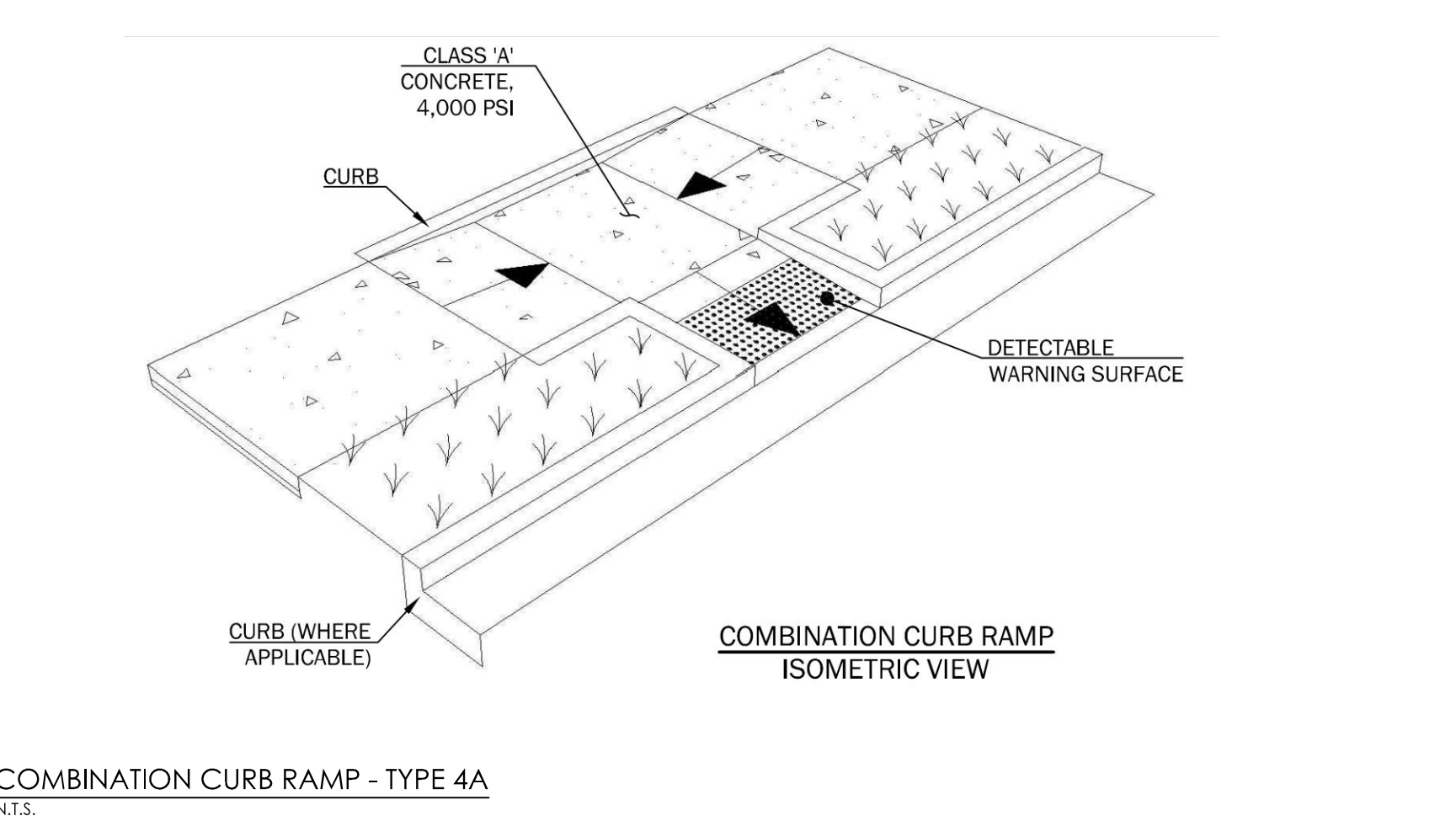
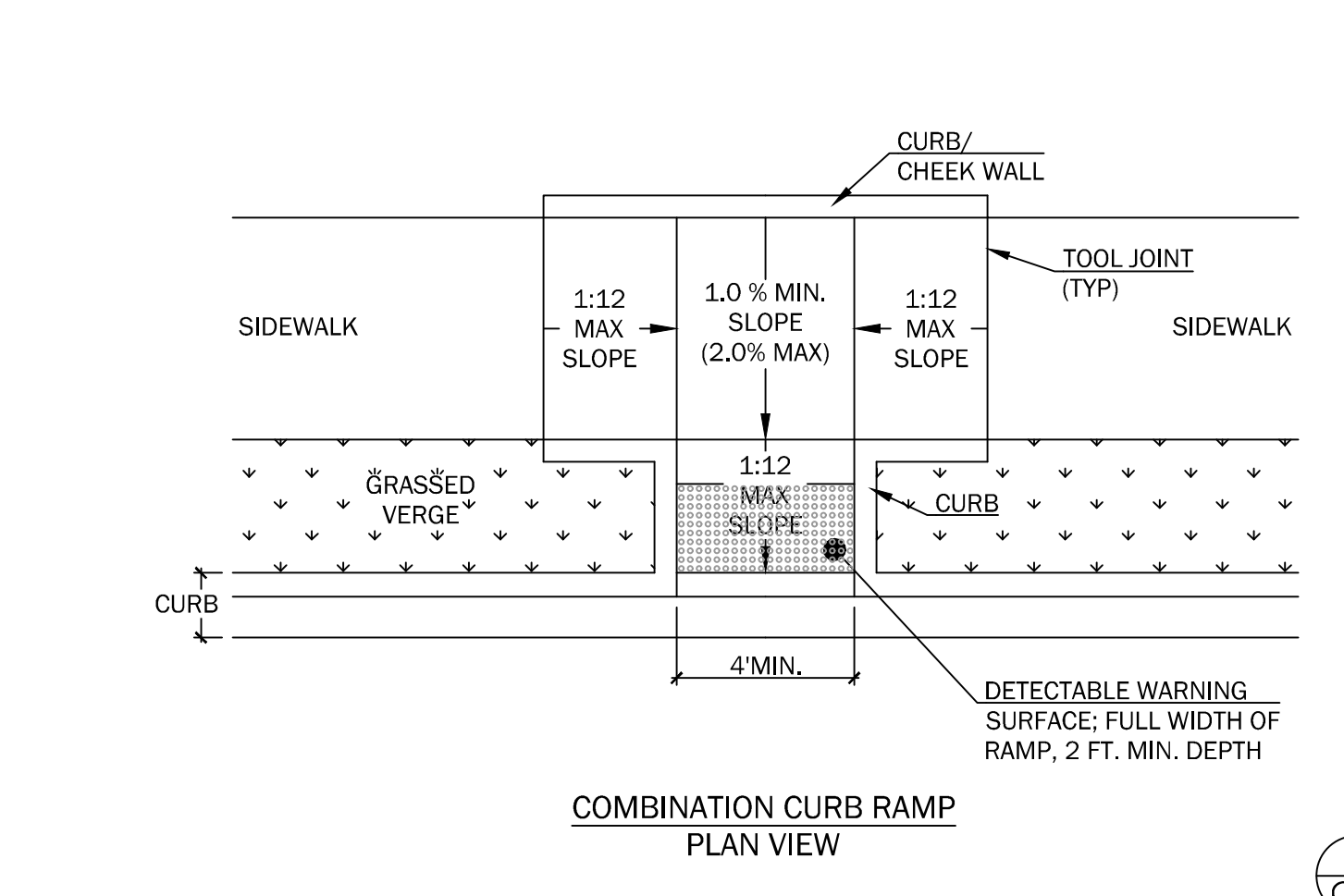
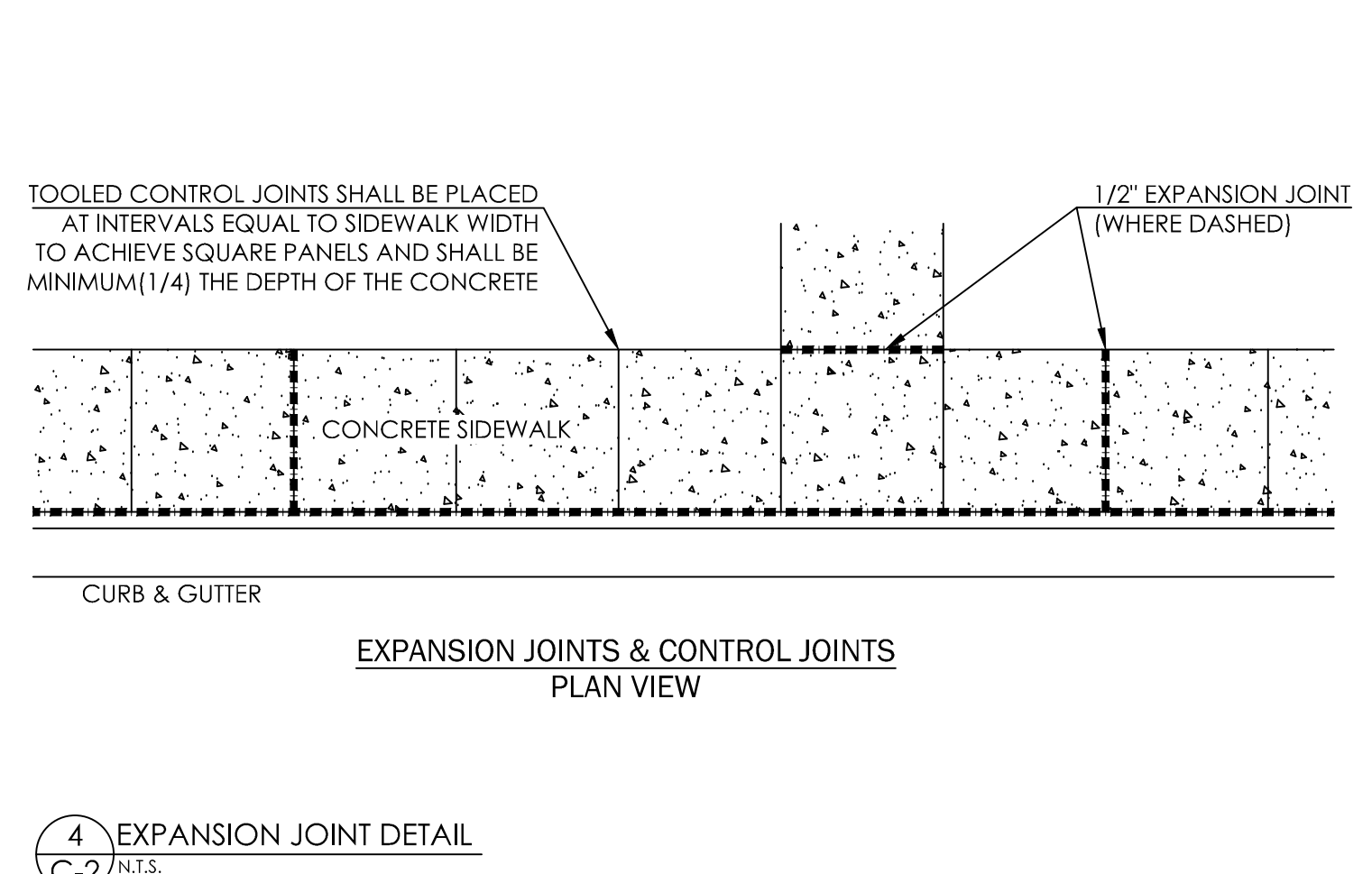
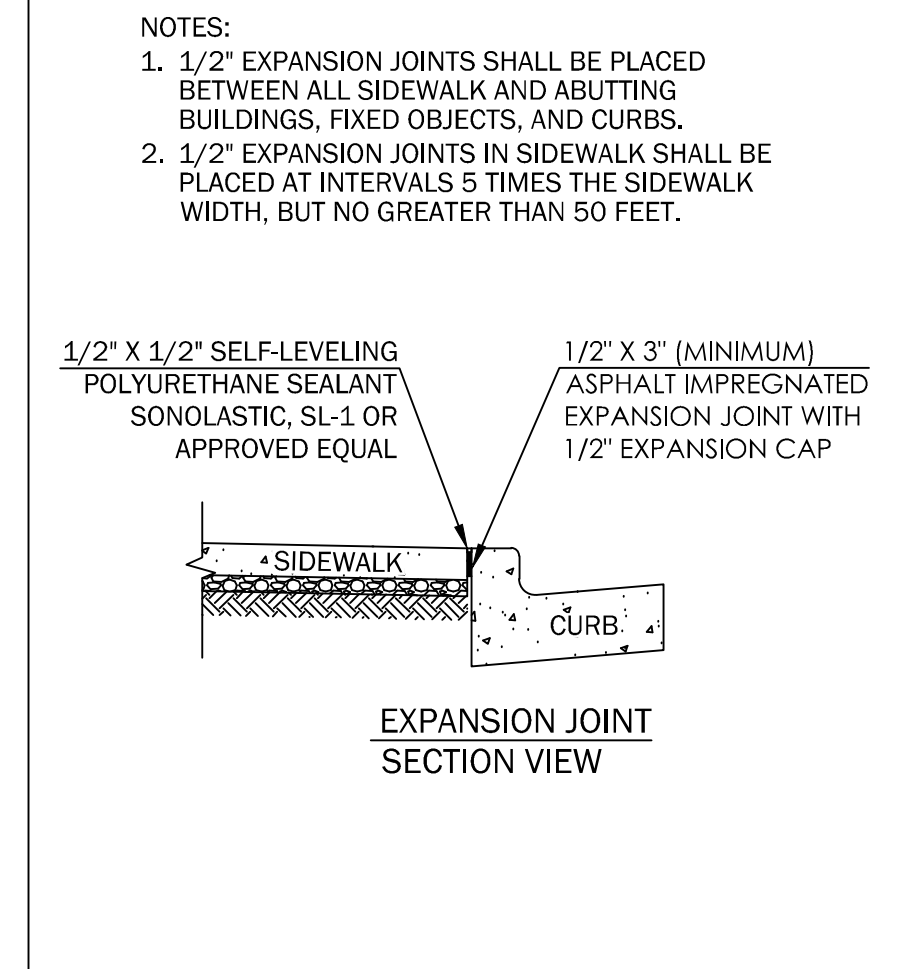
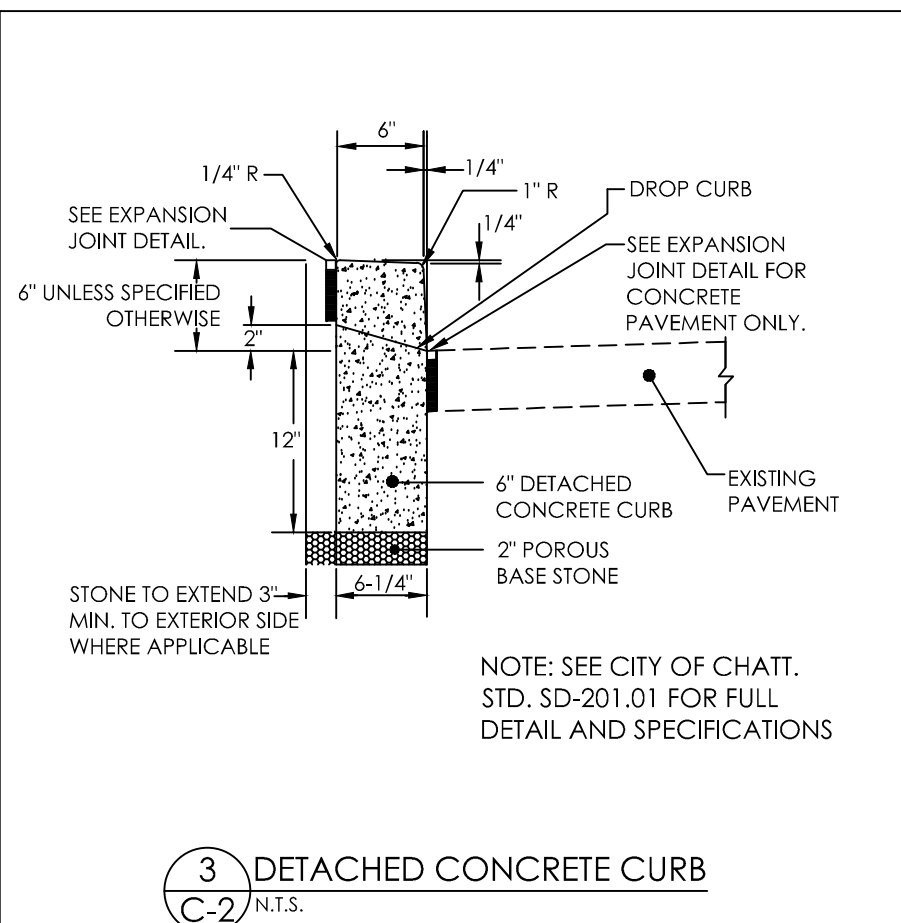
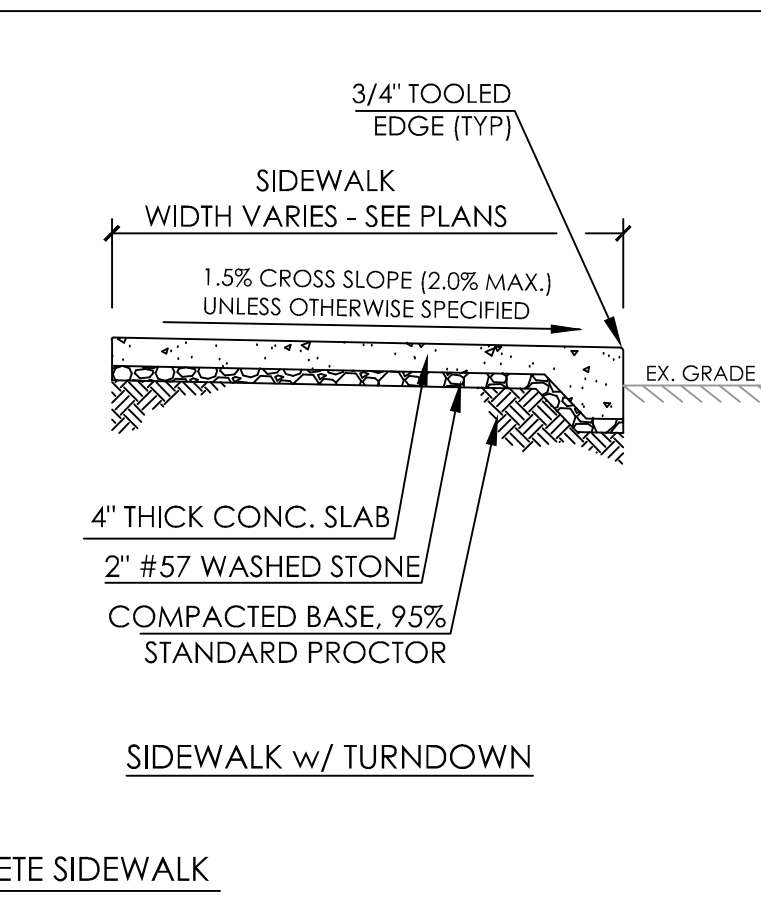
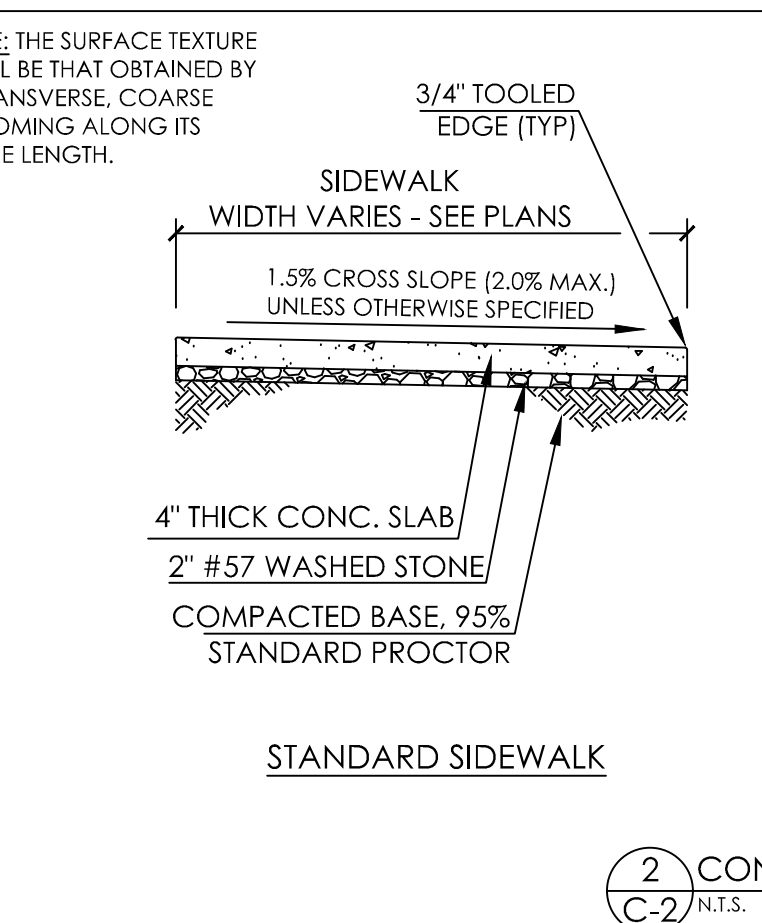
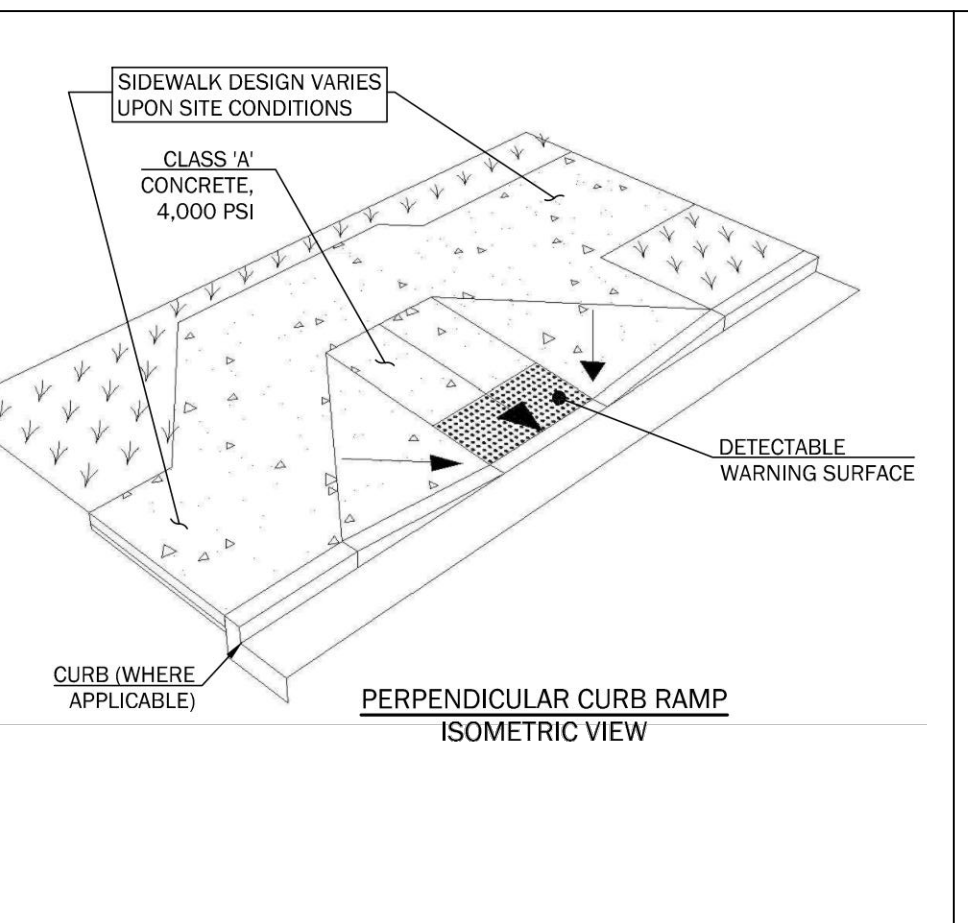
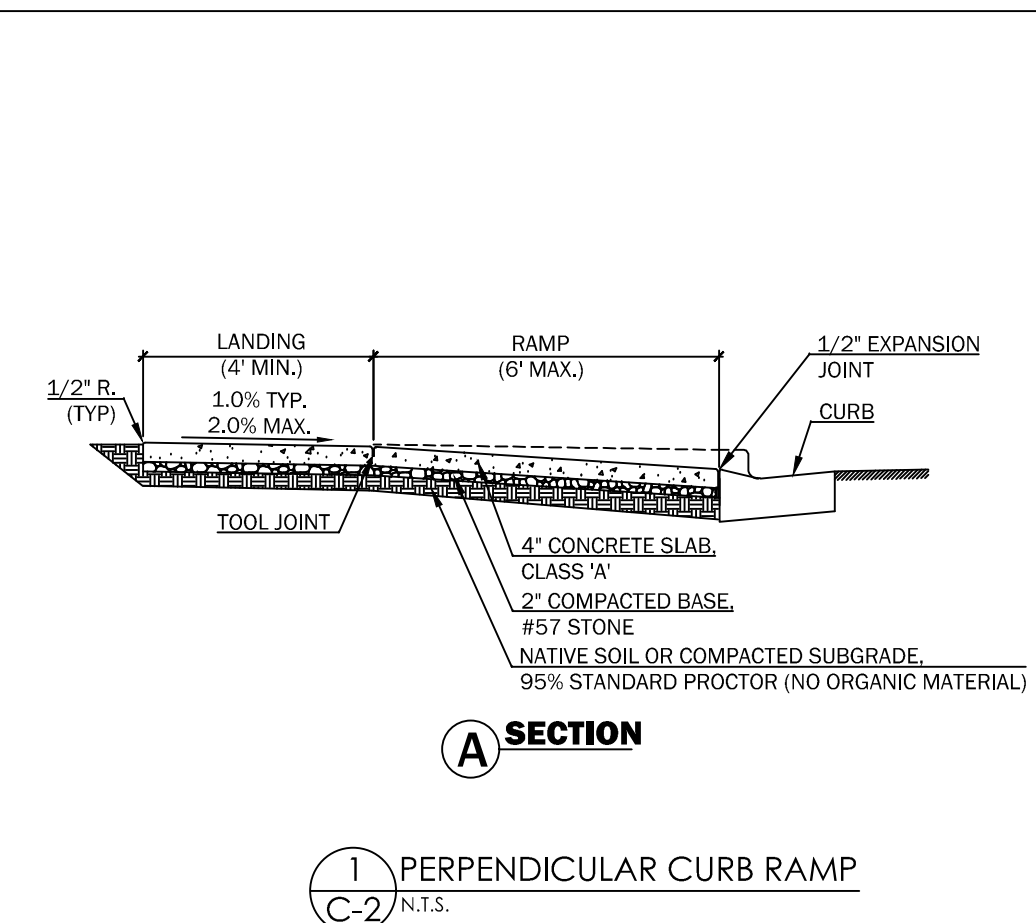
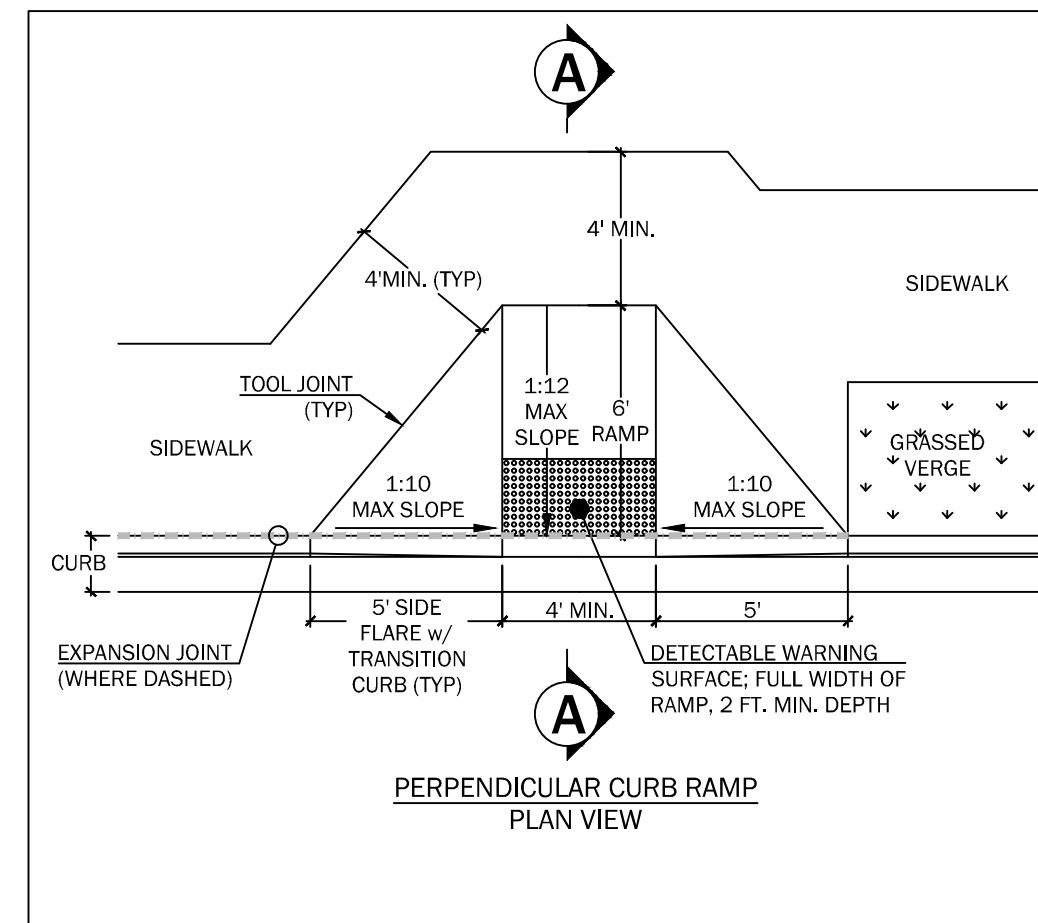
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- NOTES**
- The normal gutter line profile shall be maintained through the area of the ramp.
  - A full-depth expansion joint shall be constructed along the driveway centerline whenever its width exceeds 24-feet. Where driveways exceed this width, expansion joints should be equally spaced (24-foot maximum) and constructed parallel with the centerline.
  - 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 rebar (minimum) twelve inches (12") O.C. 98. w9.

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

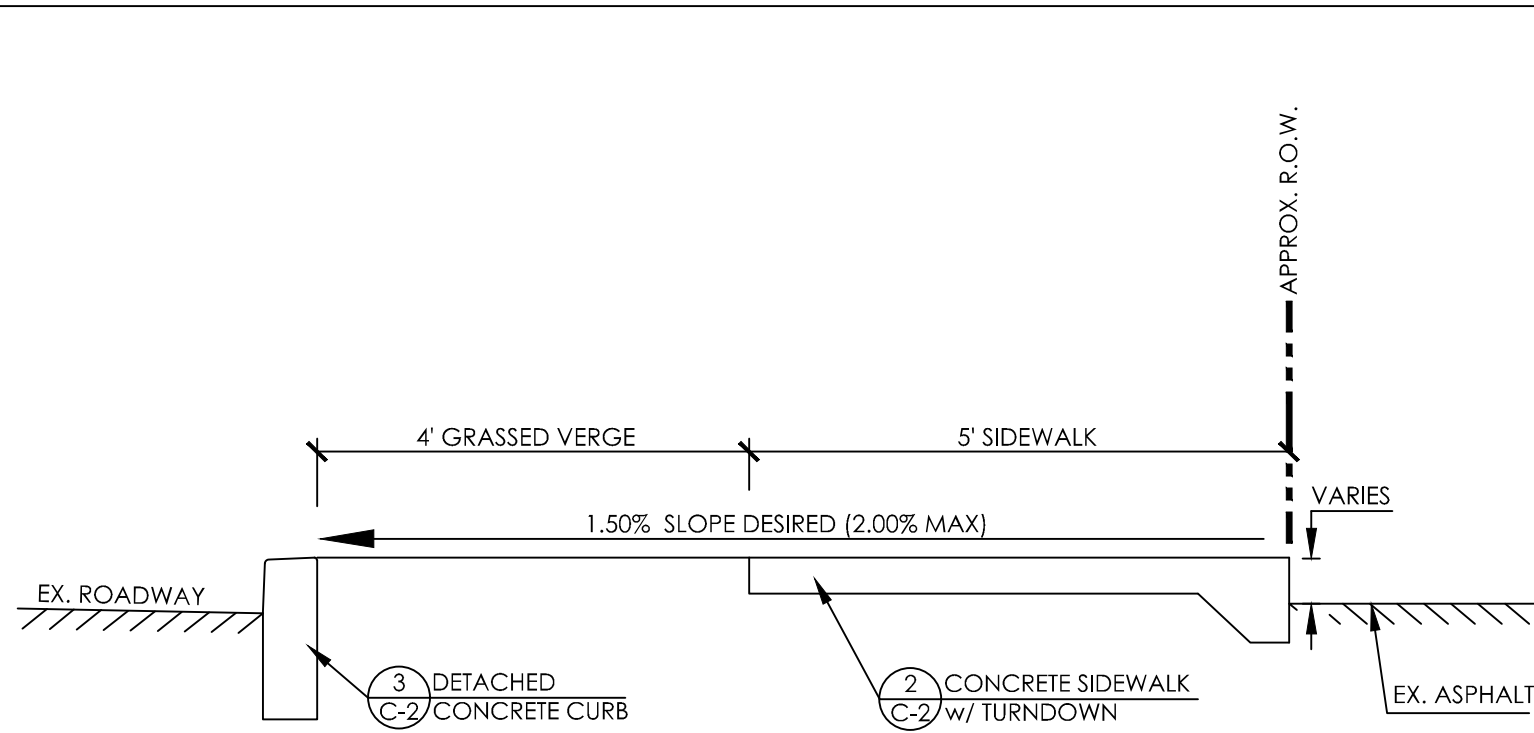
**GLASS STREET & DODSON AVENUE  
 STREETSCAPE IMPROVEMENTS**  
 CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
 1250 MARKET ST., SUITE 3030  
 CHATTANOOGA, TN 37402

**DETAILS**

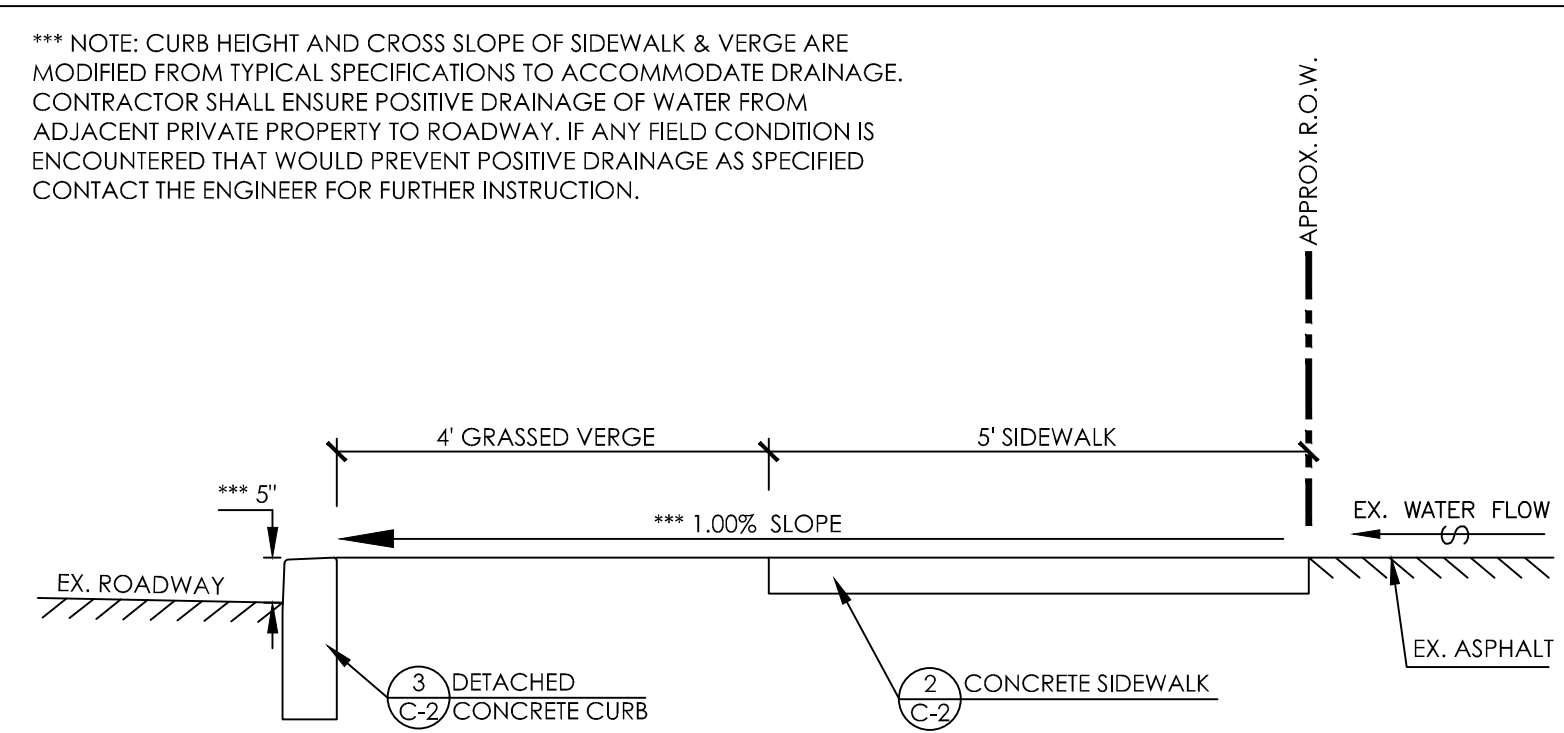
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MARK D. HEINZER  
 REGISTERED PROFESSIONAL ENGINEER  
 NO. 114738  
 STATE OF TENNESSEE  
 TN REGISTRATION NO. 114738

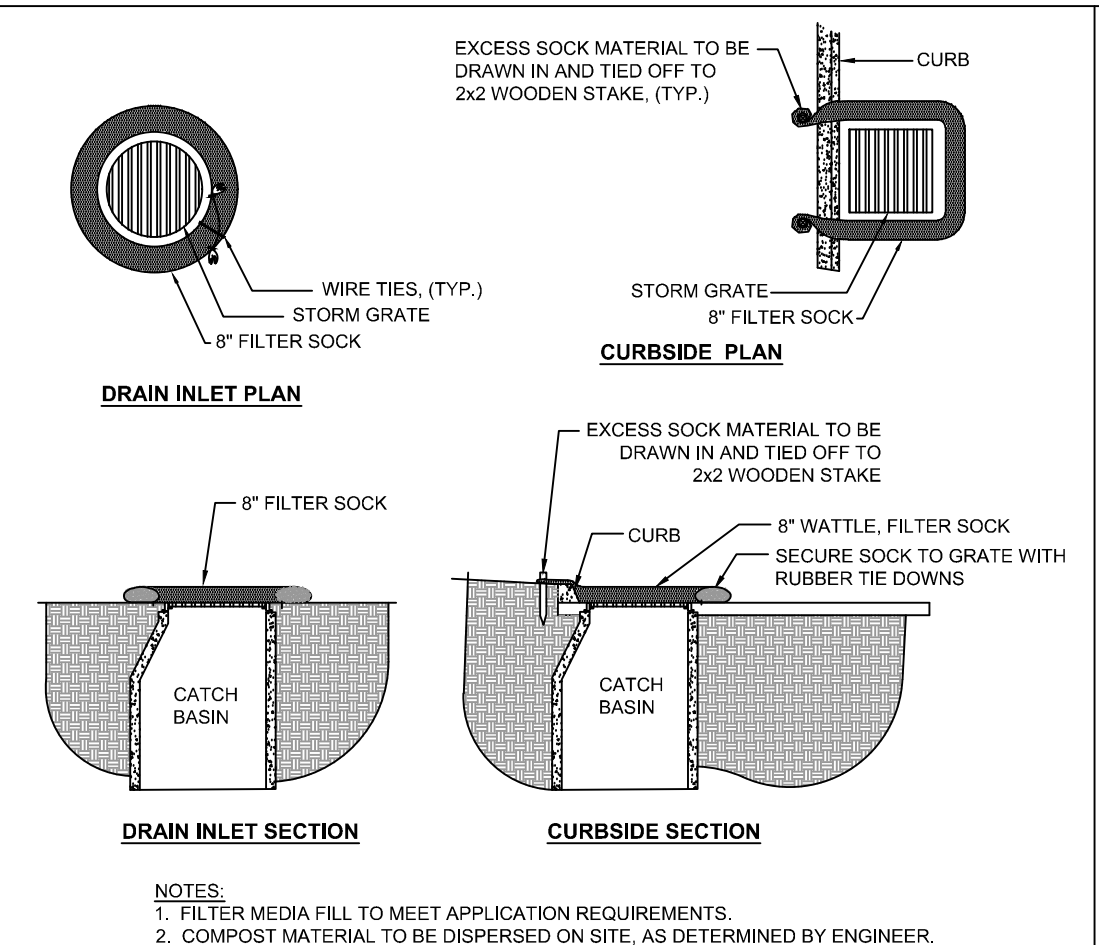
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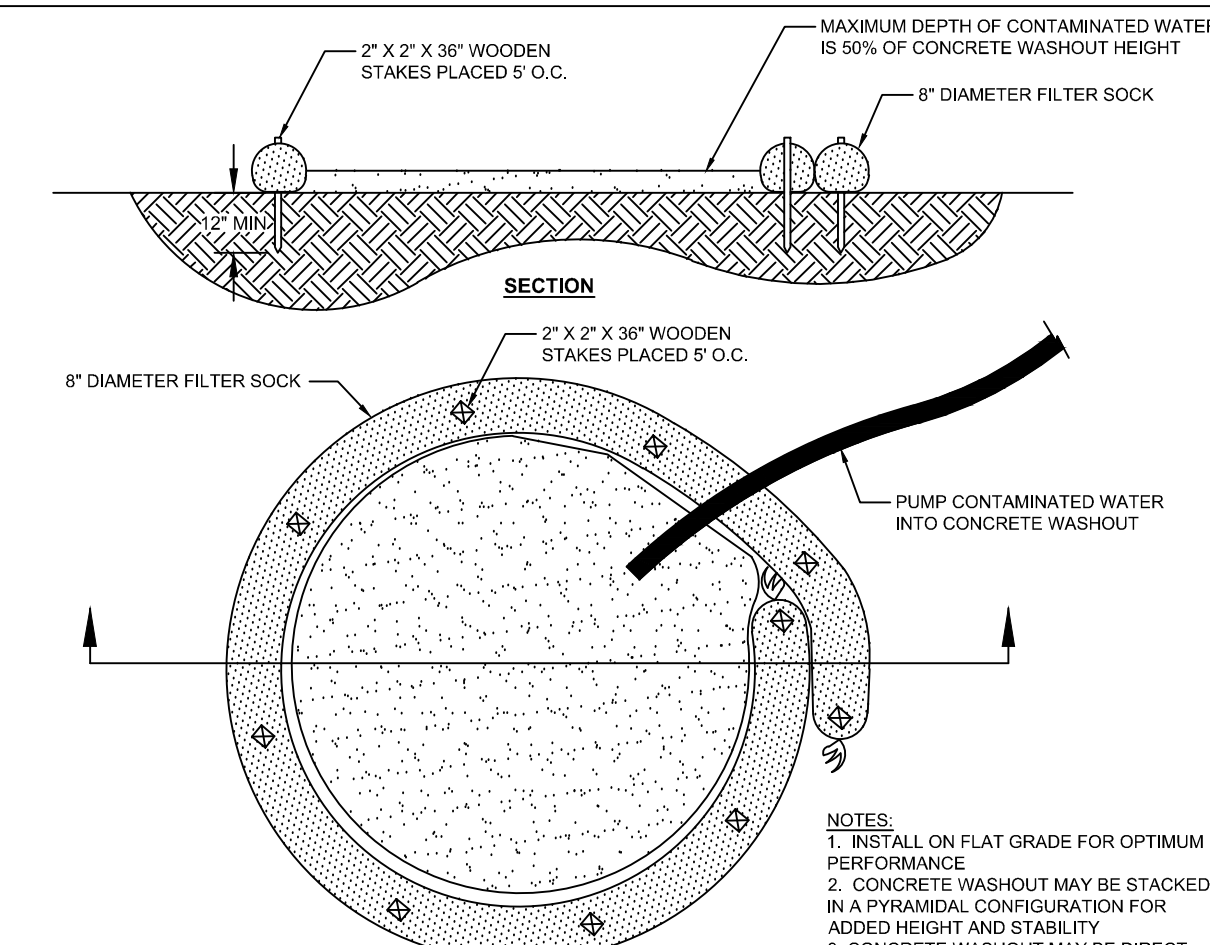
1 SECTION A - A  
C-2.1 N.T.S.



2 SECTION B - B  
C-2.1 N.T.S.

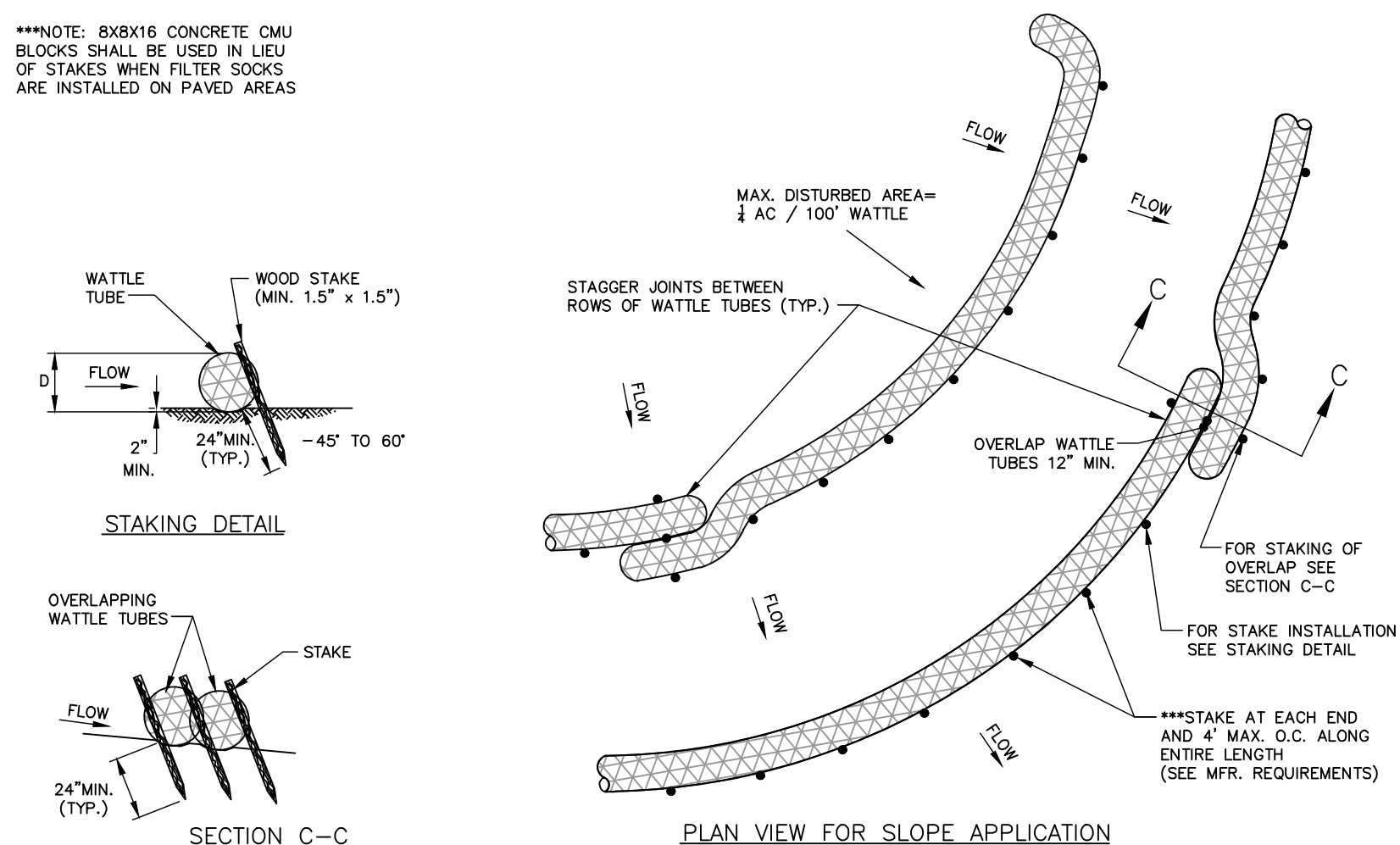


3 FILTER SOCK INLET PROTECTION  
C-2.1 N.T.S.



4 FILTER SOCK CONCRETE WASHOUT  
C-2.1 N.T.S.

\*\*\*NOTE: 8X8X16 CONCRETE CMU BLOCKS SHALL BE USED IN LIEU OF STAKES WHEN FILTER SOCKS ARE INSTALLED ON PAVED AREAS



5 FILTER SOCK - WATTLE  
C-2.1 N.T.S.

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

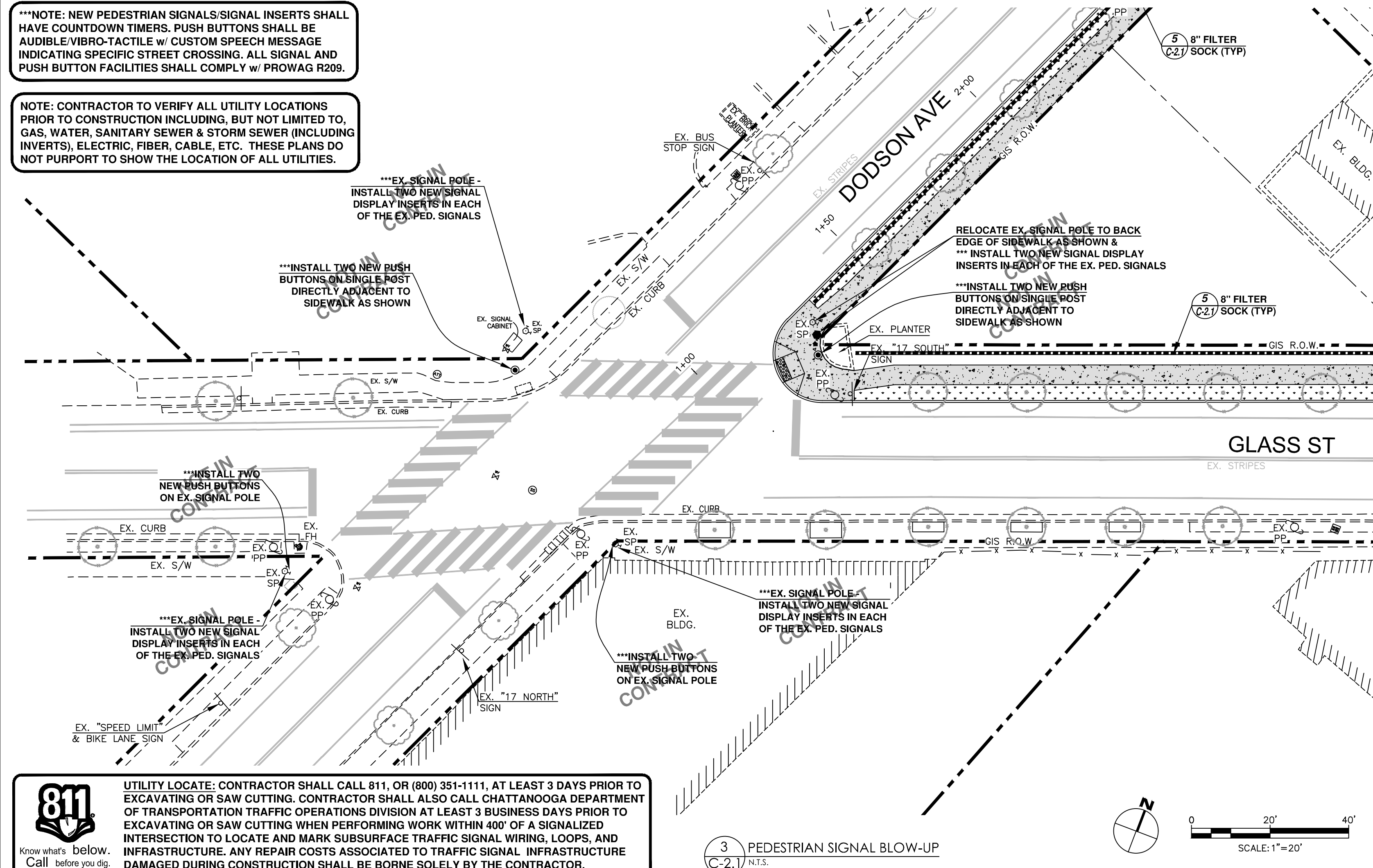
DISTURBED AREA STABILIZATION (TEMP)

SPECIES	BROADCAST		PLANTING DATES												REMARKS	
	PER ACRE	PER 1000 S.F.	J	F	M	A	M	J <td>J</td> <td>A</td> <td>S</td> <td>O</td> <td>N</td> <td>D</td>	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.	J	F	M	A	M	J	J	A	S	O	N	D		
CROWNVETECH	20 LBS.	0.5 LBS.														
TALL FESCUE (KY31)	30 LBS.	0.7 LBS.	J	F	M	A	M	J	J	A	S	O	N	D	100,000 SEED PER POUND, DENSE GROWTH, DROUGHT TOLERANT AND FIRE RESISTANT.	
SERICEA 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)	20 LBS.	0.5 LBS.	J	F	M	A	M	J	J	A	S	O	N	D		
ANNUAL LESPEDEZA (KOBE)	8 LBS.	0.2 LBS.	J	F	M	A	M	J	J	A	S	O	N	D		
SERICEA LESPEDEZA (SCARIFIED)	45 LBS.	1.1 LBS.														
WEeping LOVE GRASS	3 LBS.	0.7 LBS.	J	F	M	A	M	J	J	A	S	O	N	D		
COMMON BERMU DAGRASS (MULLED)	14 LBS.	0.3 LBS.														
ANNUAL LESPEDEZA (KOBE)	8 LBS.	0.2 LBS.	J	F	M	A	M	J	J	A	S	O	N	D		

DISTURBED AREA STABILIZATION (PERM)

\*\*\*NOTE: NEW PEDESTRIAN SIGNALS/SIGNAL INSERTS SHALL HAVE COUNTDOWN TIMERS. PUSH BUTTONS SHALL BE AUDIBLE/VIBRO-TACTILE w/ CUSTOM SPEECH MESSAGE INDICATING SPECIFIC STREET CROSSING. ALL SIGNAL AND PUSH BUTTON FACILITIES SHALL COMPLY w/ PROWAG R209.

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.



3 PEDESTRIAN SIGNAL BLOW-UP  
C-2.1 N.T.S.

**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.

REVISIONS (7/2/2020): 1) ADDED EROSION CONTROL DETAILS SHEET C2.1 2) ADDED EROSION CONTROL PLAN - SHEET C-6. 3) REVISED ROOT BARRIER SPECIFICATION IN TREE PLANTING DETAIL SHEET L-1.

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

GLASS STREET & DODSON AVENUE  
STREETSCAPE IMPROVEMENTS

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

DETAILS

DATE:	5/5/20
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REVISIONS	
1	7/2/20: CITY COMMENTS
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MARK D. HEINZER  
REGISTERED PROFESSIONAL ENGINEER  
NO. 11478  
STATE OF TENNESSEE  
TN REGISTRATION NO. 114738

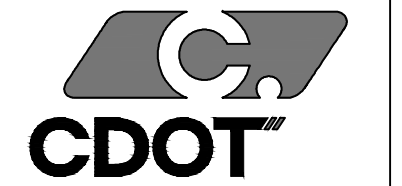
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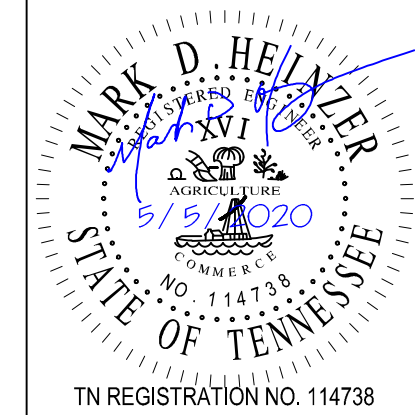
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**GLASS STREET & DODSON AVENUE  
STREETSCAPE IMPROVEMENTS**

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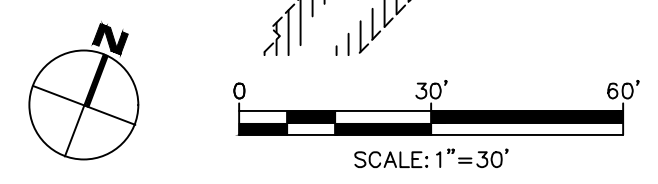
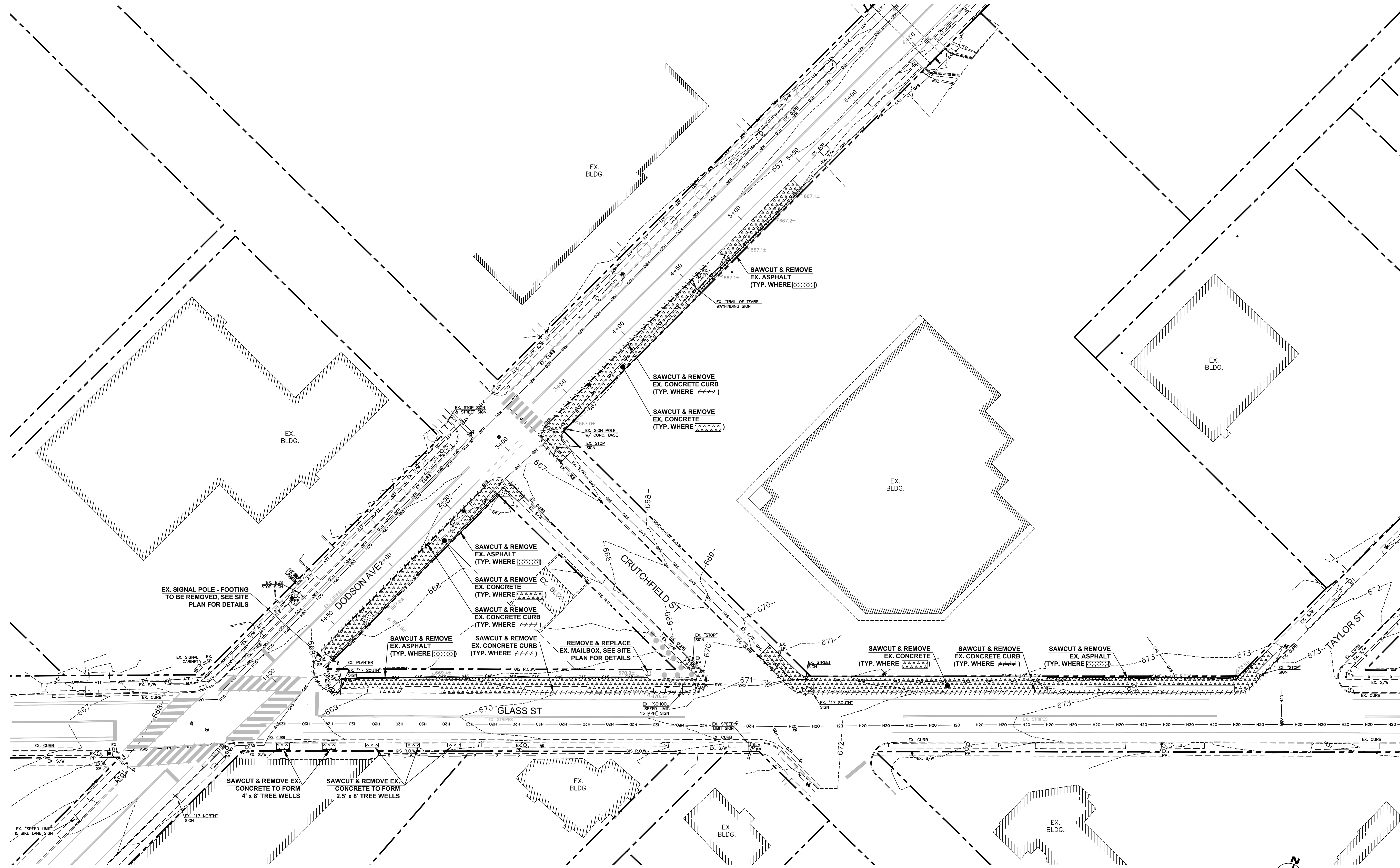
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TN REGISTRATION NO. 114738

**C-3**



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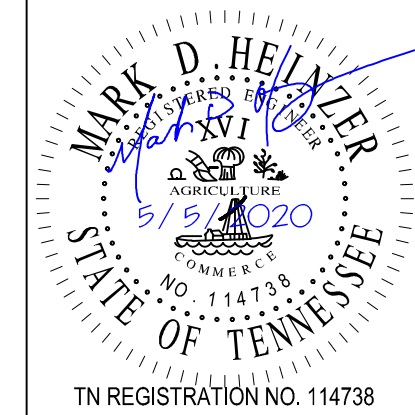
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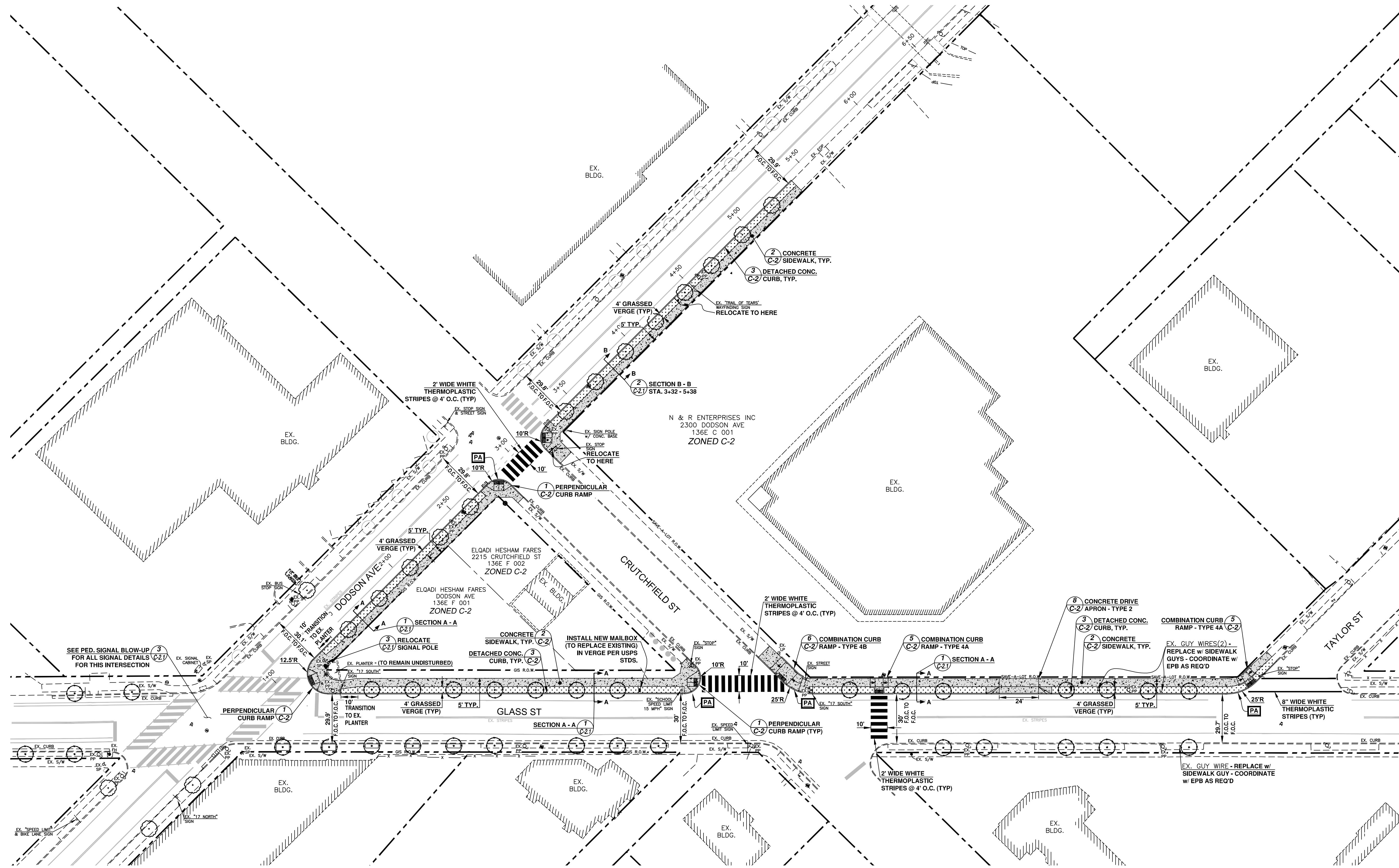
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**SITE PLAN**

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**C-4**



**PA** CONTRACTOR TO PATCH ASPHALT ALONG ALL PROPOSED CURB INSTALLATIONS WHERE REQUIRED PER DETAIL (C-2)



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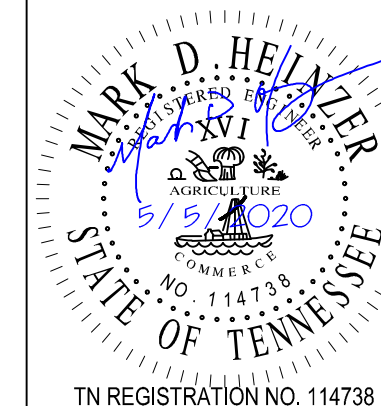
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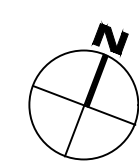
GRADING PLAN

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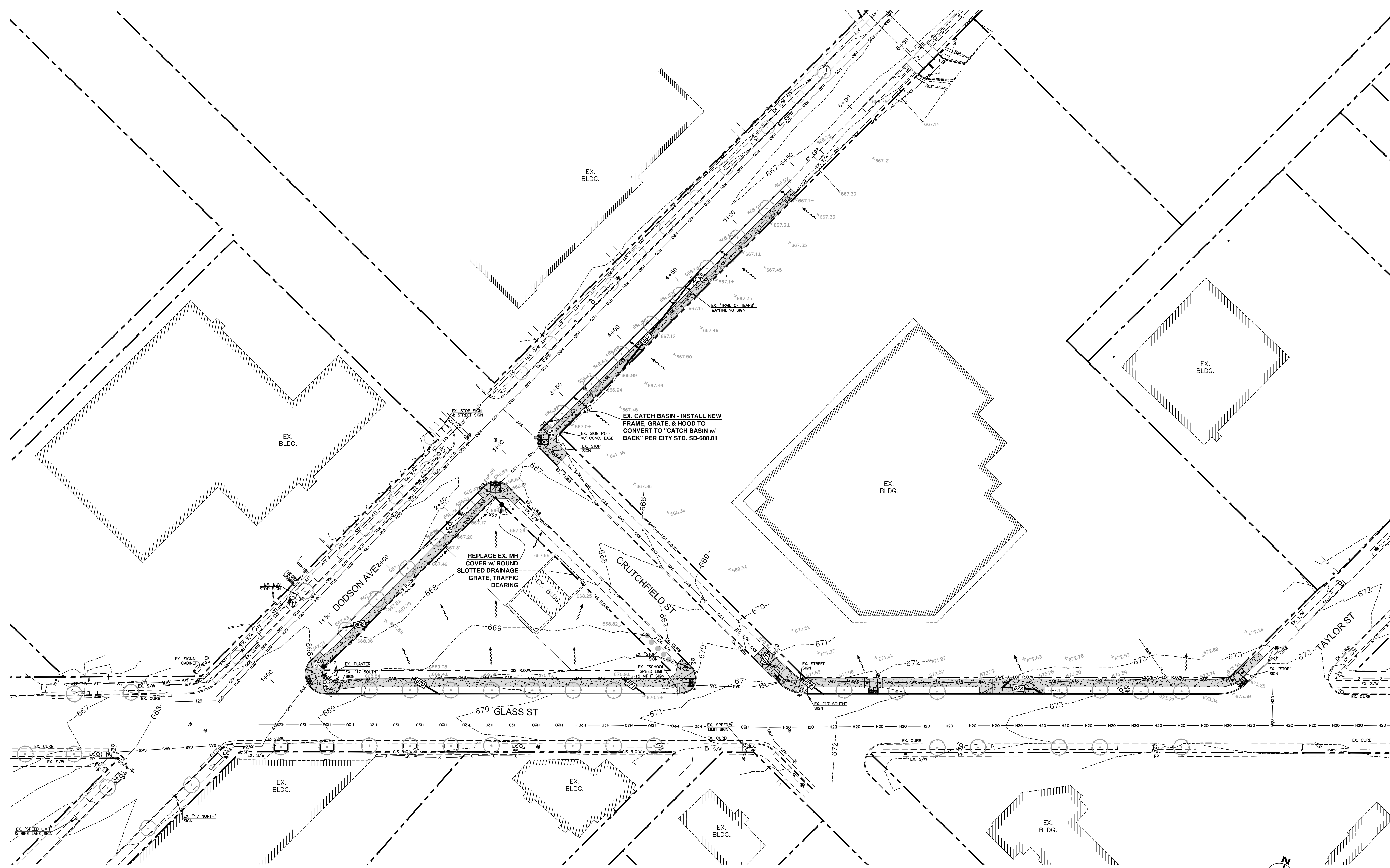
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C-5



SCALE: 1"=30'



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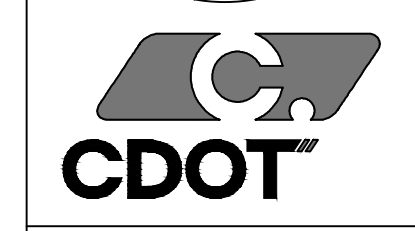


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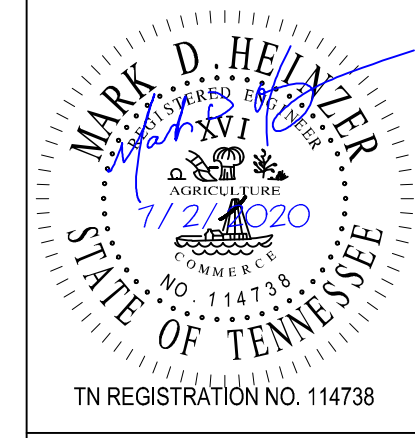
ADMINISTRATOR:  
BLYTHE BAILEY  
CITY TRANSPORTATION ENGINEER:  
MARK D. HEINZER, P.E.

**GLASS STREET & DODSON AVENUE  
STREETSCAPE IMPROVEMENTS**

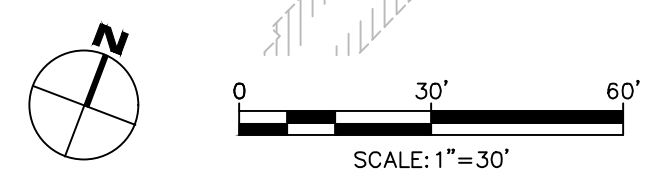
CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
1250 MARKET ST., SUITE 3030  
CHATTANOOGA, TN 37402

**EROSION CONTROL PLAN**

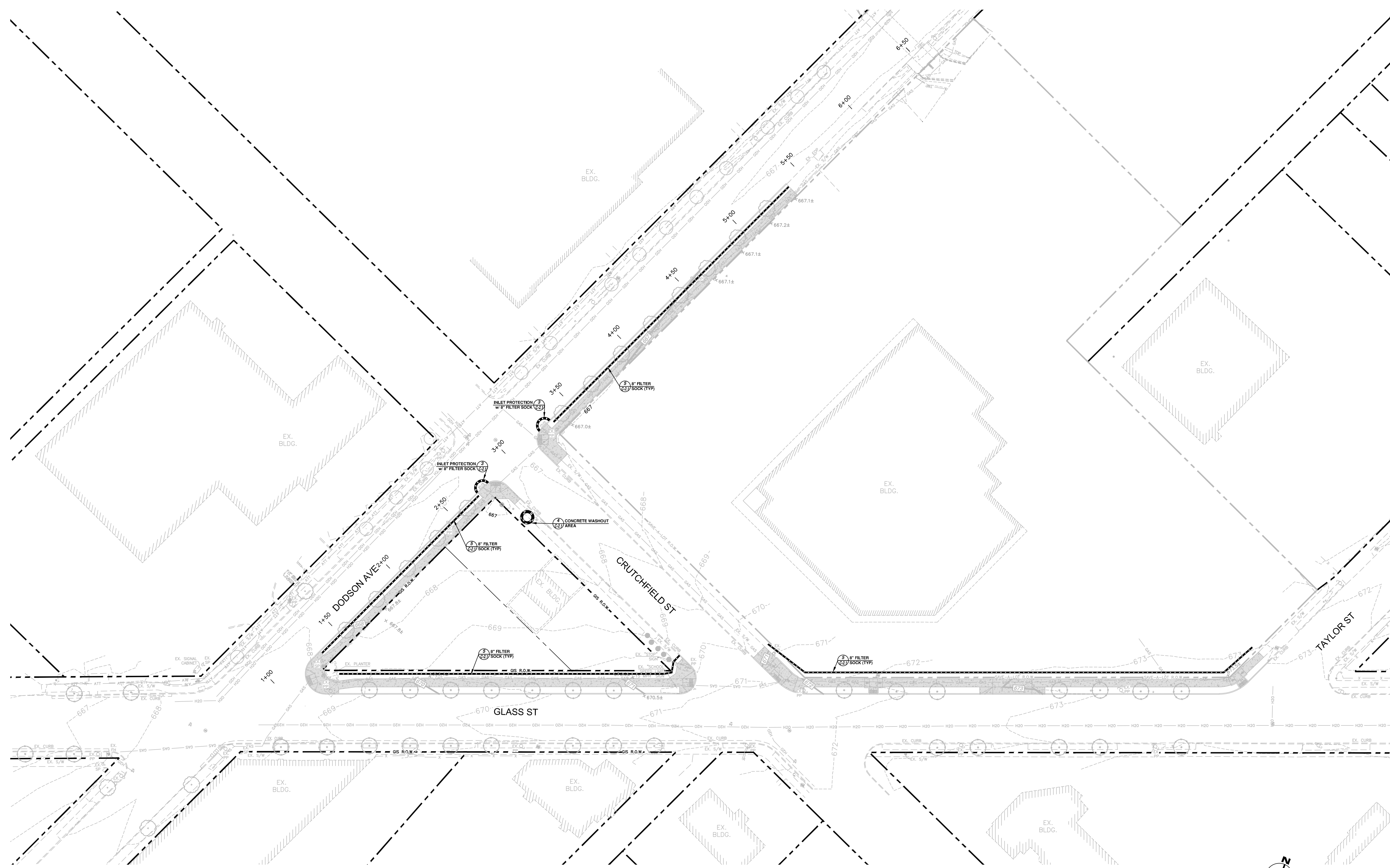
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**C-6**



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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:**

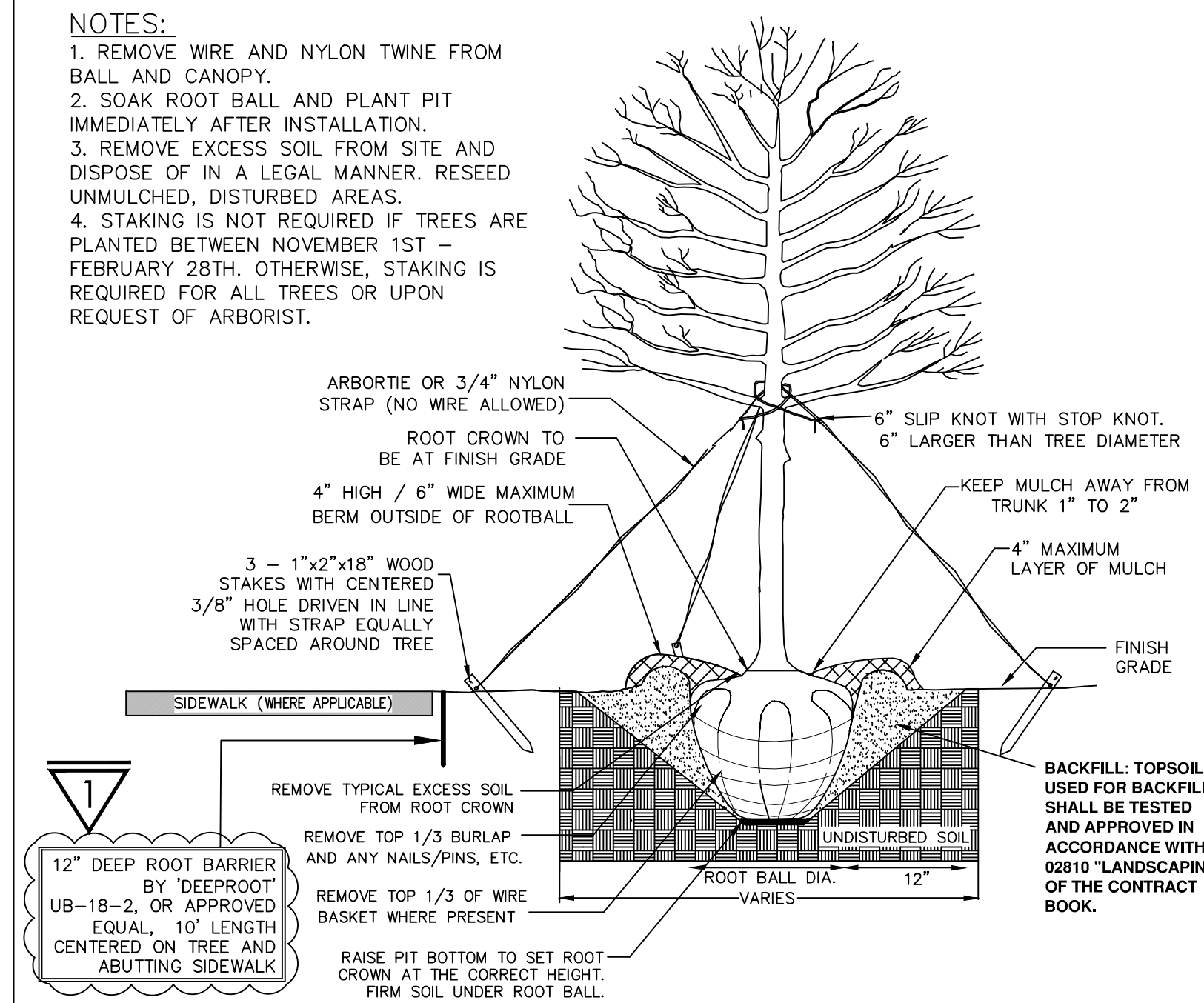
- BEFORE PLANTING, REMOVE ANY PLASTIC WRAP AND CIRCLING ROOTS FROM THE ROOT BALL.
- EXCAVATE PLANTING HOLE AT LEAST TWO TIMES THE DIAMETER OF, AND 2" SHALLOWER THAN THE ROOT BALL.
- PLACE ROOT BALL AT A LEVEL WHERE THE TRUNK FLARE WILL BE 2" ABOVE SURROUNDING FINISHED GRADE AFTER SETTLING.
- SATURATE 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
ER	17	EASTERN REDBUD	CERCIS CANADENSIS	2.5" CALIPER MIN. ***	SEE PLANS
WK	32	WINTER KING HAWTHORN	CRATAEGUS VIRIDIS "WINTER KING"	2.5" CALIPER MIN. ***	SEE PLANS

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

**NOTES:**

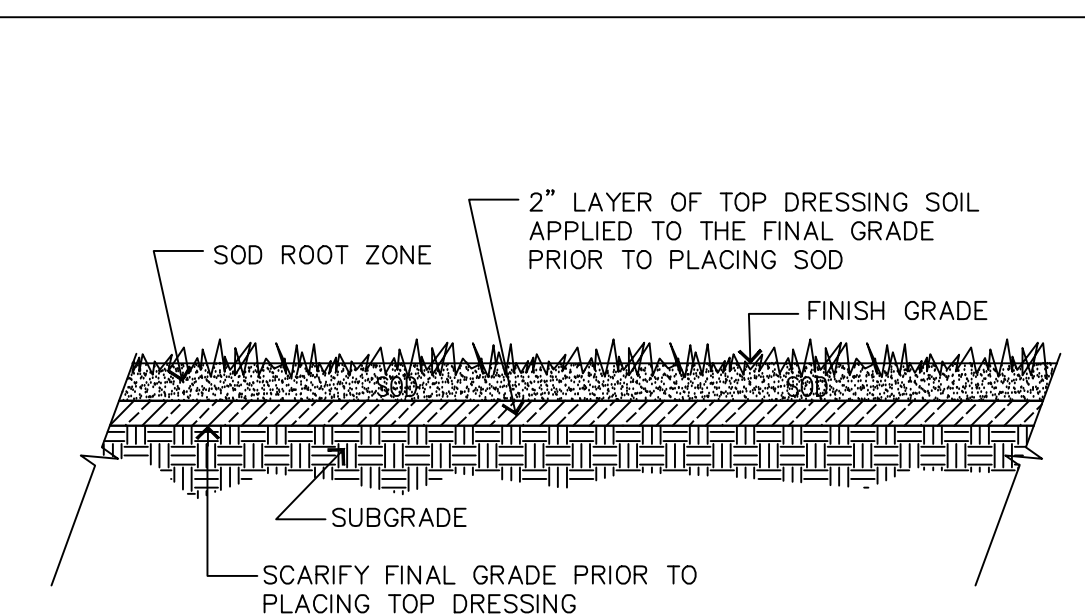
- REMOVE WIRE AND NYLON TWINE FROM BALL AND CANOPY.
- SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
- REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER. RESEED UNMULCHED, DISTURBED AREAS.
- STAKING IS NOT REQUIRED IF TREES ARE PLANTED BETWEEN NOVEMBER 1ST - FEBRUARY 28TH. OTHERWISE,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

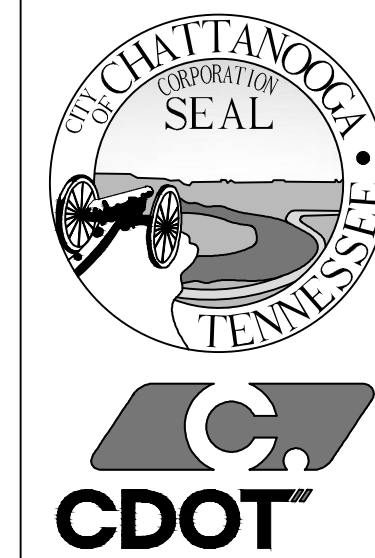
1 TREE PLANTING DETAIL C-5 N.T.S.



- NOTE:
- HOLD DOWN FINISHED GRADE 2" FROM EDGE OF ALL HARDSCAPE SURFACES
  - ROLL AND WATER SOD SAME DAY AS PLACEMENT

2 TURF PLANTING C-5 N.T.S.

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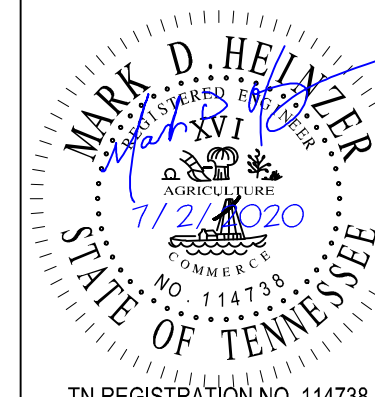
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STREETSCAPE IMPROVEMENTS**

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1250 MARKET ST., SUITE 3030  
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**LANDSCAPE  
NOTES &  
DETAILS**

DATE:	5/5/20
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TN REGISTRATION NO. 114738

NOTE: ALL VERGE AREAS (AREAS BETWEEN THE SIDEWALK AND CURB) SHALL RECEIVE SOD FOR FINISHING GROUND COVER UNLESS OTHERWISE SPECIFIED. ALL OTHER DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE SEEDED AND STRAWED UNLESS OTHERWISE SPECIFIED.

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STREETSCAPE IMPROVEMENTS**

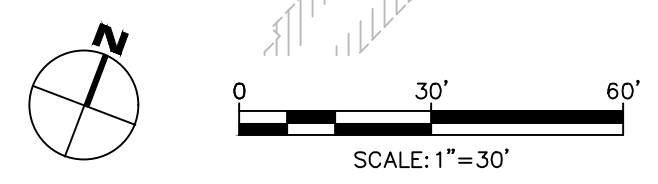
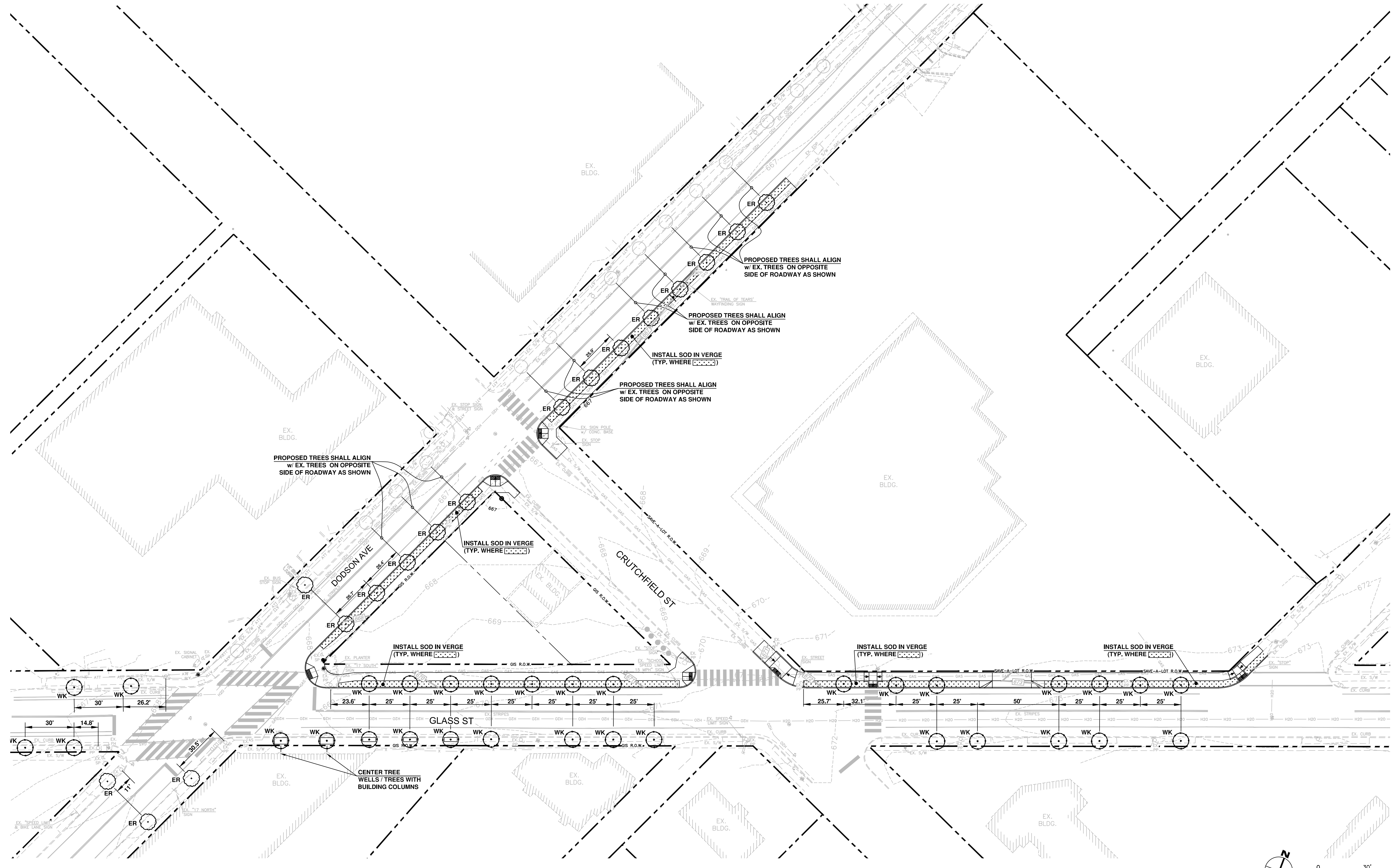
CITY OF CHATTANOOGA DEPT. OF TRANSPORTATION  
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**LANDSCAPE PLAN**

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## 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>	10	CY		
<b>1-B</b>	<b>Backfill/Borrow Excavation</b>	10	CY		
<b>1-C</b>	<b>Undercut and Remove Unsuitable Material</b>	10	CY		
<b>2</b>	<b><u>Rock Excavation</u></b>				
<b>2-A</b>	<b>Rock Excavation - 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.</b>	1	CY		
<b>12</b>	<b><u>Bituminous Plant Mix</u></b>				
<b>12-A</b>	<b>Asphaltic Concrete Binder, Grading "B", includes primecoat, 3.5-inch depth, (Complete-in-place).</b>	1100	SF		
<b>12-B</b>	<b>Asphaltic Concrete Surface, Grading "E", includes tackcoat, 1.5-inch depth, (Complete-in-place).</b>	1100	SF		
<b>14</b>	<b><u>Mineral Aggregate &amp; Base</u></b>				
<b>14-A</b>	<b>Mineral Aggregate Base, 100% Compaction Std. Proctor, Type 'A', Grading "D", 15-inch depth, (Complete-in-place).</b>	1100	SF		
<b>14-B</b>	<b>No. 57 Washed Stone - For general backfill, pipe backfill, base etc. - placed in 6" lifts - compacted (Complete-in-place).</b>	14	TON		
<b>15</b>	<b><u>Concrete and/or Pavement Removal</u></b>				
<b>15-A</b>	<b>Demolition and Removal of Existing Concrete Sidewalk (Complete-in-place).</b>	5150	SF		
<b>15-B</b>	<b>Demolition and Removal of Existing Concrete Driveway (Complete-in-place).</b>	2000	SF		
<b>15-C</b>	<b>Demolition and Removal of Existing Asphalt Roadway (Complete-in-place).</b>	1100	SF		
<b>15-D</b>	<b>Demolition and Removal of Existing Curb &amp; Gutter or Detached Curb (Complete-in-place).</b>	950	LF		
<b>15-E</b>	<b>Saw Cutting (Complete-in-Place)</b>	2050	LF		

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
16	<b><u>Cement Concrete (Sidewalks, Driveways, Handicap Ramps)</u></b>				
16-A	<b>Concrete Sidewalk, 4-inch thick (SD-202.01)</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).	5800	SF		
16-B	<b>Concrete Driveway Apron and/or Sidewalk, 6-inch thick (SD-202.02)</b> - Includes Class "A" Concrete, Excavation up to 8-inch Depth, Base Stone, Reinforcing Steel, etc. (Complete-in-Place).	110	SF		
16-C	<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).	90	SF		
17	<b><u>Cement Concrete Curb, Gutter, or Combined Curb and Gutter</u></b>				
17-A	<b>City Standard Detached Curb (SD-201.01)</b> - Includes excavation, backfill, stone, concrete, etc., (Complete-in-Place).	1050	LF		
19	<b><u>Tree and/or Stump Removal</u></b>				
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		
33	<b><u>Adjusting Manhole Frames</u></b>				
33-A	<b>Manhole Adjustment/Raise to Finished Grade</b> - Includes Excavation, Backfill, Riser, Concrete, Brick, or any other Incidentals, etc., (Complete-in-place).	1	EA		
34	<b><u>Catch Basins, Curb Inlets, Miscellaneous</u></b>				
34-A	<b>Convert Existing Catch Basin Into Catch Basin w/ Back</b> -(SD-608.01) - Includes Excavation, Backfill, Concrete or Brick or Precast, Frame and Castings, Labor, and other Incidentals, etc. (Complete-in-Place)	1	EA		
34-B	<b>Install New Round Slotted Inlet Grate on Existing Manhole</b> - Includes New Grate (Traffic Bearing), any Incidentals, etc. (Complete-in-Place)	1	EA		
35	<b><u>Sodding and/or Seeding</u></b>				
35-A	<b>Fescue Sod</b> - Includes all materials, labor, rolling, stapling, and other incidentals, etc. (Complete-in-place).	350	SY		
36	<b><u>Topsoil</u></b>				
36-A	<b>Topsoil (3-inch depth)</b> , Includes Labor and other incidentals, etc. (Complete-in-place).	350	SY		
98	<b><u>Slope Protection and Erosion Control</u></b>				
98-A	<b>8" Wattle/Silt Sock</b> - Includes linear barrier filter, inlet protection, concrete cleanout, and Labor and other incidentals, etc. (Complete-in-place).	850	LF		

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
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		
2452	<u>Pavement Markings</u>				
2452-A	<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)	125	LF		
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)	1	EA		
MISC-B	<b>Relocate Existing Traffic Sign</b> - Includes new U-channel mounting base, any incidentals, etc. (Complete-in-Place)	2	EA		
MISC-C	<b>Root Barrier</b> - 18" (UB-18-2) Root Barrier by 'Deeprout' or approved equal. Installed per manufacturer specifications (Complete-in-Place)	670	LF		
MISC-D	<b>Relocate Existing Guy Wire</b> - Includes new guy wire and sidewalk guy pole if needed (Complete-in-Place)	3	EA		
MISC-E	<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)	1	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)	1	EA		
MISC-G	<b>Relocate Existing Sign</b> - Includes the removal of the existing sign, post, & footing, and the re-installation of the sign at the new location. Includes new sign post if required, other incidentals, and required materials (Complete-in-Place)	1	EA		
<b>Base Bid Total</b>					

See next page for continued bid schedule.

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
<b>Add Alternate #1</b>					
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)	32	EA		
2810-B	<b>Eastern Redbud (Cercis Canadensis) 2.5" Caliper -</b> Includes installation, labor, materials, excavation, backfill, mulch, staking, etc. (Complete-in-Place)	17	EA		
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		
<b>Additive Alternate #1 Total</b>					
<b>Total Bid (Base Bid + Additive Alternate #1)</b>					