



South Chickamauga Greenway Connector Project
Contract Number: T-15-032
Chattanooga Department of Transportation

The following is the Schedule for this project:

Request for Information: All questions for this project should be submitted to the city's purchasing department by **4:00 PM** on **Friday, September 20, 2019**.

Addenda: All questions will be answered in addenda no later than **4:00 PM** on **Tuesday, September 24, 2019**.

Bid Opening: All Bids ***MUST*** be received by the city's purchasing department located at 101 East 11th Street Chattanooga, TN 37402 no later than **2:00 PM** on **Tuesday, October 1, 2019** in the Purchasing Conference Room.

Question 1:

How many originals and or copies of the submittal are required?

Answer 1:

There should be one original and one copy submitted to Purchasing.

Question 2:

Where is dbe participation percentage to be recorded in the bid submittal?

Answer 2:

The DBE goal for this project is 10% or greater. Below is the form, Form 8-5 DBE Award Information, to record DBE participation in the bid submittal. An example form has also been included below.

Question 3:

Where is addenda acknowledgement to be recorded in the bid submittal?

Answer 3:

Below is the Bid Form – Acknowledgement space has been added.

Question 4:

What are the seismic parameters for TDOT design including site class, seismic design category, Ss, S1?

Answer 4:

We are waiting on a response from the engineer of record. We will issue this answer in Addenda 3.

Question 5:

What seismic hazards are considered for slope stability? Do the boardwalk piles need to be designed for slope stability concerns or any other seismic hazards?

Answer 5:

We are waiting on a response from the engineer of record. We will issue this answer in Addenda 3.

Question 6:

Are there any concerns for karst topography that needs to be considered for the area? If discovered during foundation construction what are the procedures for mitigation?

Answer 6:

If karst situations occur during the project the CEI engineer for the project will work with Contractor, Owner and Engineer of Record to identify a repair method for the specific karst situation. Change Cost for the recommendation will be reviewed and approved prior to construction.

Question 7:

In the Geotech report the augured pilot holes will be required prior to installing the piles supporting the boardwalk past station 30+60. What is the size of the pilot hole compared to the pile diameter? How does augured vs non-augured pilot holes compare to each other in lateral capacity from geotech report, Table 7-1?

Answer 7:

The Contractor's Structural Engineer will need to evaluate this in the boardwalk design. This same method was utilized on previously installed portions of the greenway on similar topography.

Question 8:

Is there even enough potential pile embedment to limit deflections on the flat side of the deflection curve? What's the the max allowable pile deflection at the top of ground surface? Are there P-Y curves developed for various pile sizes?

Answer 8:

The Contractor's Structural Engineer will need to evaluate this in the boardwalk design.

Question 9:

Can the geotech provide an equivalent lateral soil capacity for short piles similar to IBC Ch 18, 1807.3 Embedded posts and poles?

Answer 9:

The Contractor's Structural Engineer will need to evaluate this in the boardwalk design.

Question 10:

What capacity will the geotech or record be made available during the contractor's design and review? From SECTION 02851, if alternate foundation types are required because of constraints in the terrain, will the geotech of record be available for consultation and provide additional information as needed for design? Who is responsible for paying for their services?

Answer 10:

Any additional geotechnical investigations will be at the Contractor's expense.

Question 11:

For alternate foundations what is and is not allowed under Top Down Construction

requirements?

Answer 11:

The existing greenway was constructed from top down construction methods. Workers may have access to the ground, as required, but the Contractor should not expect to have equipment access along the length of the boardwalk due to the existing topography. Therefore, only foundations that can be constructed with equipment on the deck and workers at ground level should be considered.

Question 12:

Is there any information on rock design for a rock socket pier, if required by design?

Answer 12:

The previous boardwalk was installed within similar topography and geology without rock sockets.

Question 13:

Some portions of the boardwalk are ~ 20 ft above ground surface according to the cross sections. This will create high lateral loads for wind and seismic load cases. Does the owner allow batter piles for these conditions?

Answer 13:

Batter piles will be allowed if required by the structural design.

Question 14:

Are there minimal wood grade requirements for other portions of the project beyond what was specified for decking?

Answer 14:

The wood grades must meet the requirements of the specifications included in the bid package.

Question 15:

If Top Down Construction specified in SECTION 02851 is not practical, what alternate methods or techniques are acceptable to the owner? What are the clear and grub requirements at the boardwalk?

Answer 15:

Alternative methods to Top Down Construction are not considered viable due to the existing topography encountered along the length of the proposed greenway.

Question 16:

What are the lateral drift requirements of the boardwalk for seismic, wind, and vehicle?

Answer 16:

We are waiting on a response from the engineer of record. We will issue this answer in Addenda 3.

Question 17:

Are there any vehicle impact requirement for curb, railing, or framing members?

Answer 17:

We are waiting on a response from the engineer of record. We will issue this answer in Addenda 3.

Question 18:

From SECTION 02851-3, are there design examples of a timber abutment to better understand the requirements? What are the soil properties for loads placed on the

abutments?

Answer 18:

The only proposed abutment will be at the interface with the existing roadway and proposed RCC greenway, as required for connection to those surfaces. Contractors Structural Engineer shall base their design on information provided in the Geotechnical report. If additional information is required for connections at these interfaces the Contractor can perform additional Geotechnical testing at their expense.

Question 19:

Do cut ends of pressure treated members require a coating for additional treatment?

Answer 19:

Yes

Question 20:

Due to the difficulty in access and tight conditions to get the roller compacted concrete materials and equipment to this location would you allow a concrete pathway in lieu of the roller compacted concrete? Call me if you have any questions.

Answer 20:

Alternates are not allowed.

Question 21:

The bid item in the bid documents calls for a 12 foot boardwalk with a quantity of 19,370 SF while the plans call for 16,345 of a 10 foot boardwalk. Can you clarify? Call me if you have any questions.

Answer 21:

The boardwalk is actually 12 feet wide, not 10 feet wide. The quantity is 19,370 square feet. Below see updated plans which supersedes any other plans you may have received.

**DBE AWARD INFORMATION FOR CONTRACTORS AND CONSULTANTS
ON LOCALLY LET FEDERAL AID CONTRACTS**

County: _____ PIN: _____

Contract Award Amount: _____ Federal Project Number: _____

Federal Dollars in Contract: _____ State Project Number: _____

Contract Award Date: _____

Name of Prime Contractor: _____

Proposed DBE Goal or None: _____ % or None

**This form must be resubmitted to Local.Programs@tn.gov if the DBEs change on the project.*

NAMES OF SUBCONTRACTORS	ETHNICITY**	GENDER	SUBCONTRACT AMOUNT
DBE Certified Work Type to be performed: _____ <input type="checkbox"/> 2 nd Tier	_____	_____	\$ _____
DBE Certified Work Type to be performed: _____ <input type="checkbox"/> 2 nd Tier	_____	_____	\$ _____
DBE Certified Work Type to be performed: _____ <input type="checkbox"/> 2 nd Tier	_____	_____	\$ _____
DBE Certified Work Type to be performed: _____ <input type="checkbox"/> 2 nd Tier	_____	_____	\$ _____
DBE Certified Work Type to be performed: _____ <input type="checkbox"/> 2 nd Tier	_____	_____	\$ _____
TOTAL DBE COMMITMENT:			\$ _____

SUBMITTED
BY: _____

DATE: _____

**Ethnicity= Black American (BA), Hispanic American (HA), Native American (NA), Asian Indian American (AIA), Asian-Pacific American (APA), Non-Minority Women (FBE), Other (OT)

**DBE AWARD INFORMATION FOR CONTRACTORS AND CONSULTANTS
ON LOCALLY LET FEDERAL AID CONTRACTS**

County: Wilson PIN: 129888.00
 Contract Award Amount: \$900,000.00 Federal Project Number: STBG-M-1234(00)
 Federal Dollars in Contract: \$720,000.00 State Project Number: 95LPLM-F3-011
 Contract Award Date: 12/5/18
 Name of Prime Contractor: Allen & Son Pavers, LLC
 Proposed DBE Goal or None: 9% or None

**This form must be resubmitted to Local.Programs@tn.gov if the DBEs change on the project.*

NAMES OF SUBCONTRACTORS	ETHNICITY**	GENDER	SUBCONTRACT AMOUNT
ERH Construction			
DBE Certified Work Type to be performed: Traffic Control <input type="checkbox"/> 2 nd Tier	<u>African American</u>	<u>Male</u>	<u>\$64,000.00</u>
Agee General Contracting			
DBE Certified Work Type to be performed: Landscaping <input type="checkbox"/> 2 nd Tier	<u>Hispanic</u>	<u>Female</u>	<u>\$17,000.00</u>
DBE Certified Work Type to be performed: <input type="checkbox"/> 2 nd Tier			<u>\$</u>
DBE Certified Work Type to be performed: <input type="checkbox"/> 2 nd Tier			<u>\$</u>
DBE Certified Work Type to be performed: <input type="checkbox"/> 2 nd Tier			<u>\$</u>
TOTAL DBE COMMITMENT:			<u>\$81,000.00</u>

SUBMITTED BY: Ron Swanson DATE: 12/7/18

**Ethnicity= Black American (BA), Hispanic American (HA), Native American (NA), Asian Indian American (AIA), Asian-Pacific American (APA), Non-Minority Women (FBE), Other (OT)

BID FORM - 6/04/2019

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
	105-01 CONSTRUCTION STAKES, LINES AND GRADES	LS	1		
(4)	201-01 CLEARING AND GRUBBING	LS	1		
	202-03.01 REMOVAL OF ASPHALT PAVEMENT	S.Y.	616		
	203-06 WATER	M.G.	4		
	203-01.06 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	546		
	203-01.29 ROCK EXCAVATION	C.Y.	387		
	303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	345		
(1)	303-10.01 MINERAL AGGREGATE (SIZE 57)	TON	11		
	307-01.07 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M	TON	129		
	402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	1.15		
	403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	0.46		
	411-01.11 ACS MIX(PG64-22) GRADING E	TON	50		
	501-04.03 ROLLER COMPACTED CONCRETE PAVEMENT (4" DEPTH)	S.Y.	1,616		
(2)	607-09.30 48" PIPE CULVERT	L.F.	20		
	611-07.01 CLASS "A" CONCRETE (PIPE ENDWALLS)	C.Y.	1		
	611-07.02 STEEL BAR REINFORCING (PIPE ENDWALLS)	LB.	45		
	611-07.69 48IN ENDWALL (CROSS DRAIN) 3:1	EACH	2		
	705-06.01 W BEAM GR (TYPE 2) MASH TL3	L.F.	97		
	705-06.10 GR TERMINAL TRAILING END (TYPE 13) MASH TL3	EACH	4		
	707-08.11 HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	2,860		
(1)	709-05.05 MACHINED RIP-RAP (CLASS A-3)	TON	78		
(1)	709-05.06 MACHINED RIP-RAP (CLASS A-1)	TON	79		
	712-01 TRAFFIC CONTROL	LS	1		
	712-06 SIGNS (CONSTRUCTION)	S.F.	105		
	712-07.03 TEMPORARY BARRICADES (TYPE III)	L.F.	40		
	713-99.91 SIGNING	LS	1		
(3)	716-04.10 PLASTIC PAVEMENT MARKING (HANDICAP SYMBOL)	EACH	1		
	716-05.01 PAINTED PAVEMENT MARKING (4" LINE)	L.M.	0.2		
	716-05.08 PAINTED PAVEMENT MARKING (PARKING LINE)	L.F.	112		
	716-05.20 PAINTED PAVEMENT MARKING (6" LINE)	L.M.	0.1		
(5)	716-10.30 TRUNCATED DOME DETECTABLE WARNING MAT (SF)	S.F.	18		
	717-01 MOBILIZATION	LS	1		
(1)	740-10.03 GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	137		
(1)	740-10.04 GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	416		
(1)	740-11.03 TEMPORARY SEDIMENT TUBE 18IN	L.F.	4,152		
(1)	801-01.07 TEMPORARY SEEDING (WITH MULCH)	UNIT	64		
(1)	801-02 SEEDING (WITHOUT MULCH)	UNIT	25		
	801-03 WATER (SEEDING & SODDING)	M.G.	13		
(1)	805-12.01 EROSION CONTROL BLANKET (TYPE I)	S.Y.	663		
	920-10.01 12' WIDE BOARDWALK	S.F.	19,370		
TOTAL BASE BID AMOUNT					
TOTAL BASE BID AMOUNT IN WORDS					

FOOT NOTES:

- (1) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATION FOR MAINTENANCE REPLACEMENT.
- (2) BEDDING MATERIAL SHALL BE INCLUDED IN COST OF PROPOSED PIPE.
- (3) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PLASTIC FOR THERMOPLASTIC. PREFORMED NO BURNING ALLOWED. CONTRACTOR MAY CHOOSE TO MULCH WOOD MATERIALS ON-SITE IN LIEU OF OFF-SITE DISPOSAL.
- (4) INSTALLATION OF DETECTABLE WARNING MAT ON THE BOARDWALK AT LOCATION SHOWN ON THE PLANS.

I acknowledge receipt of the following addenda numbers:

Signature: _____

INDEX OF SHEETS

SEE SHEET 1A FOR INDEX

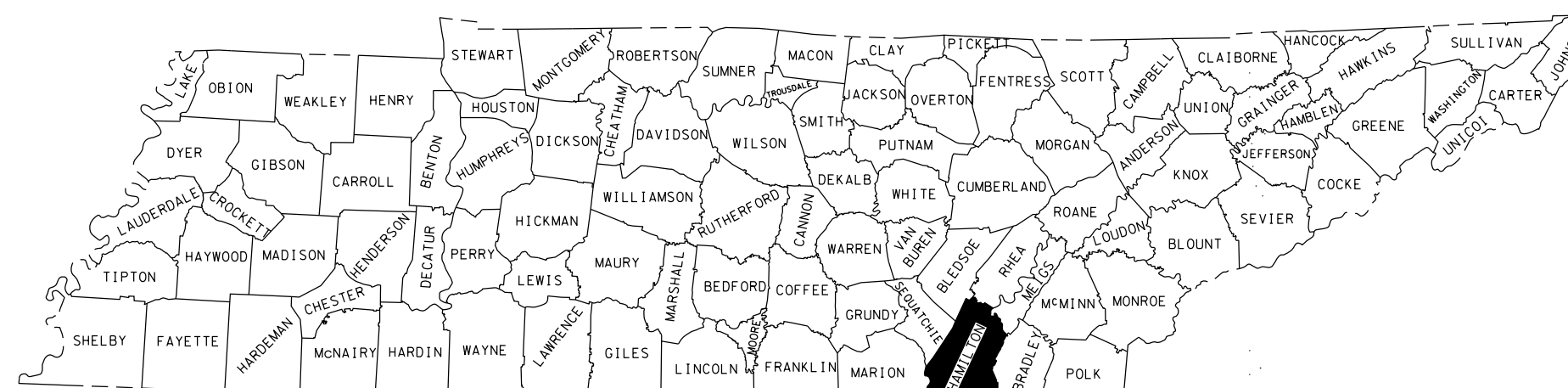
HAMILTON COUNTY

SOUTH CHICKAMAUGA GREENWAY YOUNGSTOWN ROAD CONNECTOR

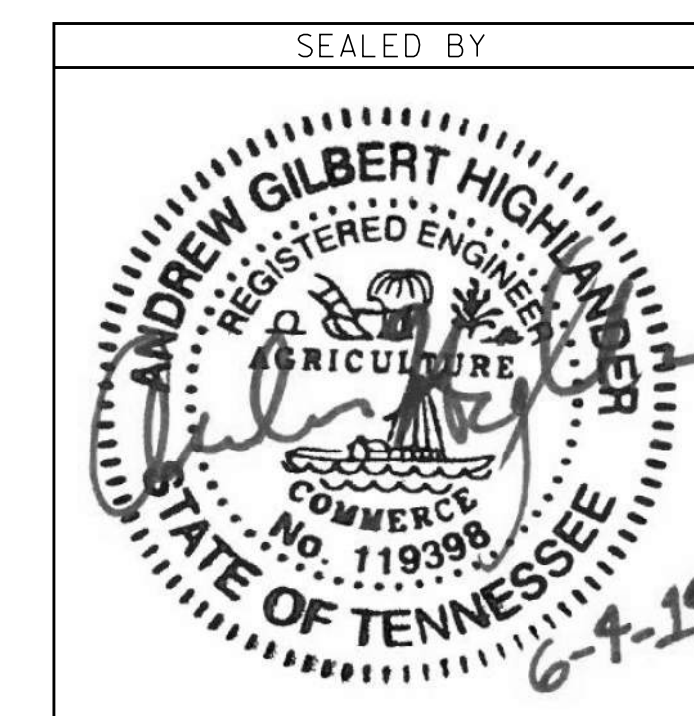
CONSTRUCTION PLANS

TENN.	YEAR	SHEET NO.
	2019	1
PIN	123118.00	
FED. PROJ. NO.	TAP-9202(129)	
STATE CONST. NO.	33LPLM-F3-202	

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT



HAMILTON COUNTY
PROJECT NO. 123118.00



ROAD TO BE CLOSED
DURING CONSTRUCTION

GREENWAY
DESIGN SPEED: 18 MPH

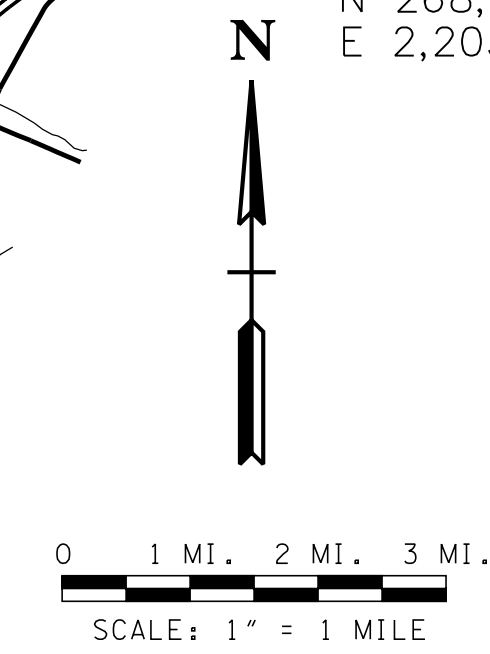
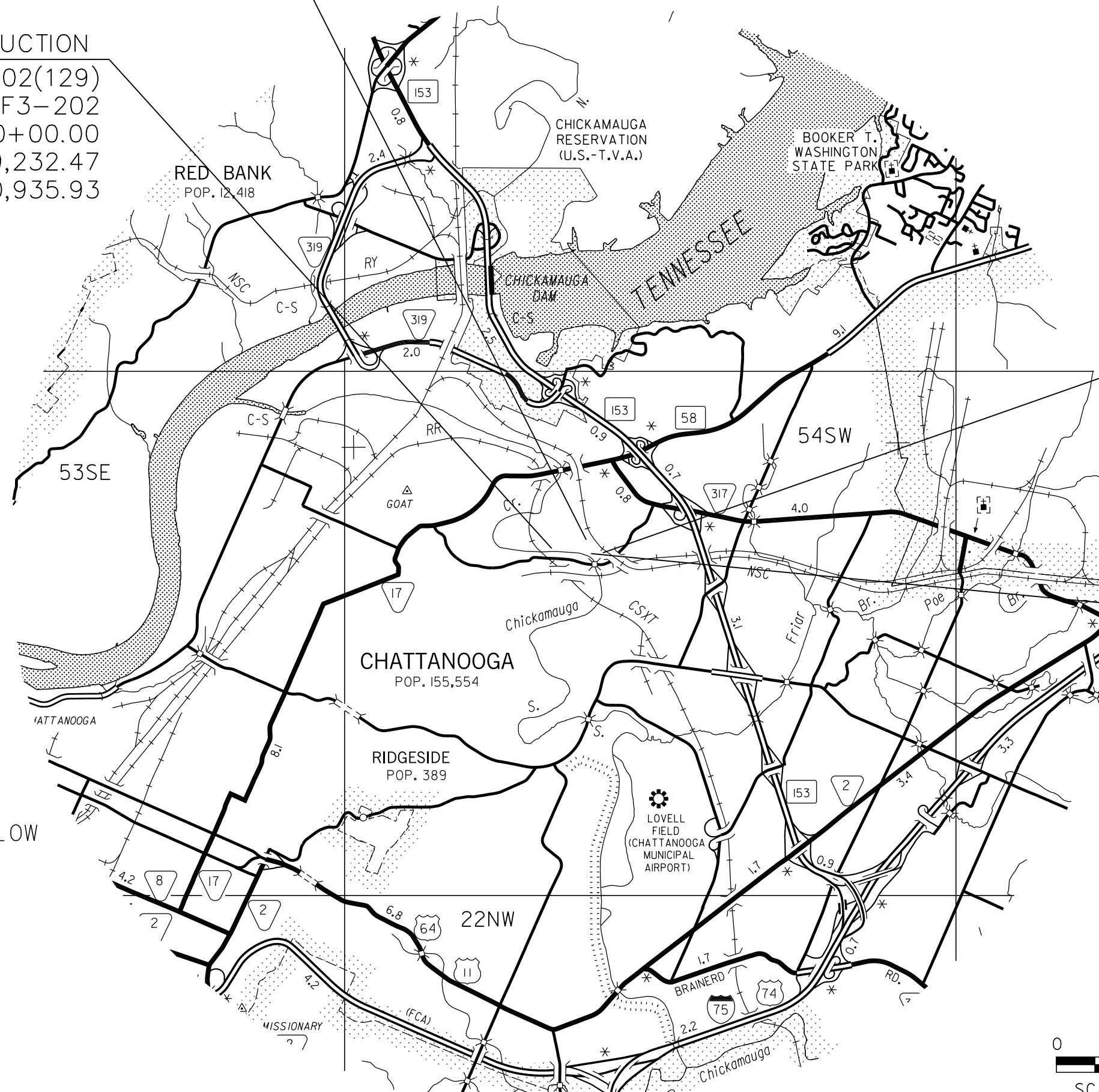
YOUNGSTOWN ROAD
DESIGN SPEED: 25 MPH

BEGIN ROAD CONSTRUCTION
FEDERAL PROJ. NO. TAP-9202(129)
STATE PROJ. NO. 33LPLM-F3-202
STA 100+00.00
N 268,905.45
E 2,203,672.65

BEGIN TRAIL CONSTRUCTION
FEDERAL PROJ. NO. TAP-9202(129)
STATE PROJ. NO. 33LPLM-F3-202
STA 10+00.00
N 269,232.47
E 2,200,935.93

END ROAD CONSTRUCTION
FEDERAL PROJ. NO. TAP-9202(129)
STATE PROJ. NO. 33LPLM-F3-202
STA 102+72.02
N 268,659.38
E 2,203,776.46

END TRAIL CONSTRUCTION
FEDERAL PROJ. NO. TAP-9202(129)
STATE PROJ. NO. 33LPLM-F3-202
STA 40+68.74
N 268,711.90
E 2,203,689.01



SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE LOCAL OFFICIAL (TBD) IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO FOLLOW THE GUIDELINES AS SET FORTH BY THE LOCAL GOVERNMENT GUIDELINES FOR THE MANAGEMENT OF FEDERAL AND STATE FUNDED TRANSPORTATION PROJECTS MANUAL, SIXTH EDITION, DATED APRIL 15, 2017.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

PROJECT LENGTH: 0.584 MILES
SURVEY DATE: SEPTEMBER 24, 2015

NO EXCLUSIONS
NO EQUATIONS

NO RIGHT-OF-WAY OR
EASEMENT ACQUISITION
REQUIRED FOR THIS PROJECT

BWSC | **BARGE WAGGONER SUMNER & CANNON, INC.**

110 Market Street, Suite 200 Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477

DESIGNED BY BARGE WAGGONER SUMNER & CANNON, INC.
DESIGNER ANDREW HIGHLANDER, PE
PIN 123118.00

SDATES
STIME
SINSTR
SUSER
STBL

ROADWAY INDEX

SHEET NAME	SHEET NO.
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SPECIAL NOTES.....	2D
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DETAIL SHEETS	2F
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STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS					
RD01-TS-1A	02-05-16	DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)			
PIPE CULVERTS AND ENDWALLS					
D-PB-1	03-16-17	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION			
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE. 36" TO 78"			
D-PE-4	10-10-16	STRAIGHT CONCRETE ENDWALL			
MULTIMODAL					
MM-TS-3		SEPARATED SHARED USE PATH TYPICAL SECTIONS			
SAFETY DESIGN AND FENCES					
S-GR31-1	03-28-17	W-BEAM GUARDRAIL			
S-GRA-3	07-05-17	TYPE 13 GUARDRAIL ANCHOR			
S-F-1	05-24-12	HIGH VISIBILITY FENCE			
DESIGN - TRAFFIC CONTROL					
T-M-1	07-05-17	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS			
T-M-2	08-02-18	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS			
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD			
T-PBR-1	03-16-17	INTERCONNECTED PORTABLE BARRIER RAIL			
T-PBR-2	03-16-17	DETAIL FOR FLEXIBLE DELINEATORS			
T-WZ-21	03-05-17	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT			
T-WZ-30	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)			
EROSION PREVENTION AND SEDIMENT CONTROL					
EC-STR-11	03-16-17	CULVERT PROTECTION TYPE 1			
EC-STR-37	06-10-14	SEDIMENT TUBE			
EC-STR-21	08-01-12	PERMANENT RIPRAP BASIN ENERGY DISSIPATORS			
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD			
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION			

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

BARGE WAGGONER SUMNER & CANNON, INC.
BWSC
110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477



ROADWAY INDEX & STANDARD DRAWINGS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

1A
FILE NO. 35531-10

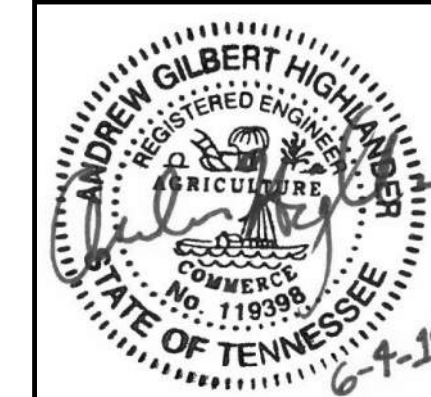
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TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

BARGE WAGGONER SUMNER & CANNON, INC.
BWSC
110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477



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FOOT NOTES:

- SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATION FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE AS DIRECTED BY THE ENGINEER.
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ESTIMATED ROADWAY QUANTITIES

TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
NO.	DESCRIPTION
0	ISSUED FOR BID

2A

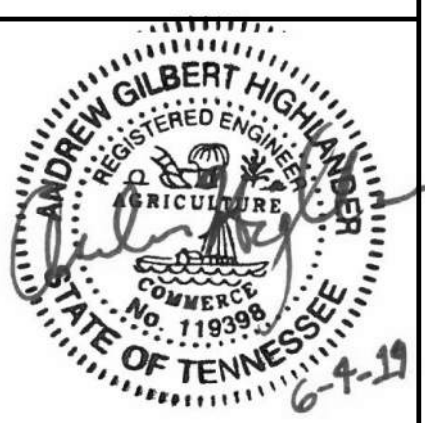
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\$DATE \$
\$TIME \$
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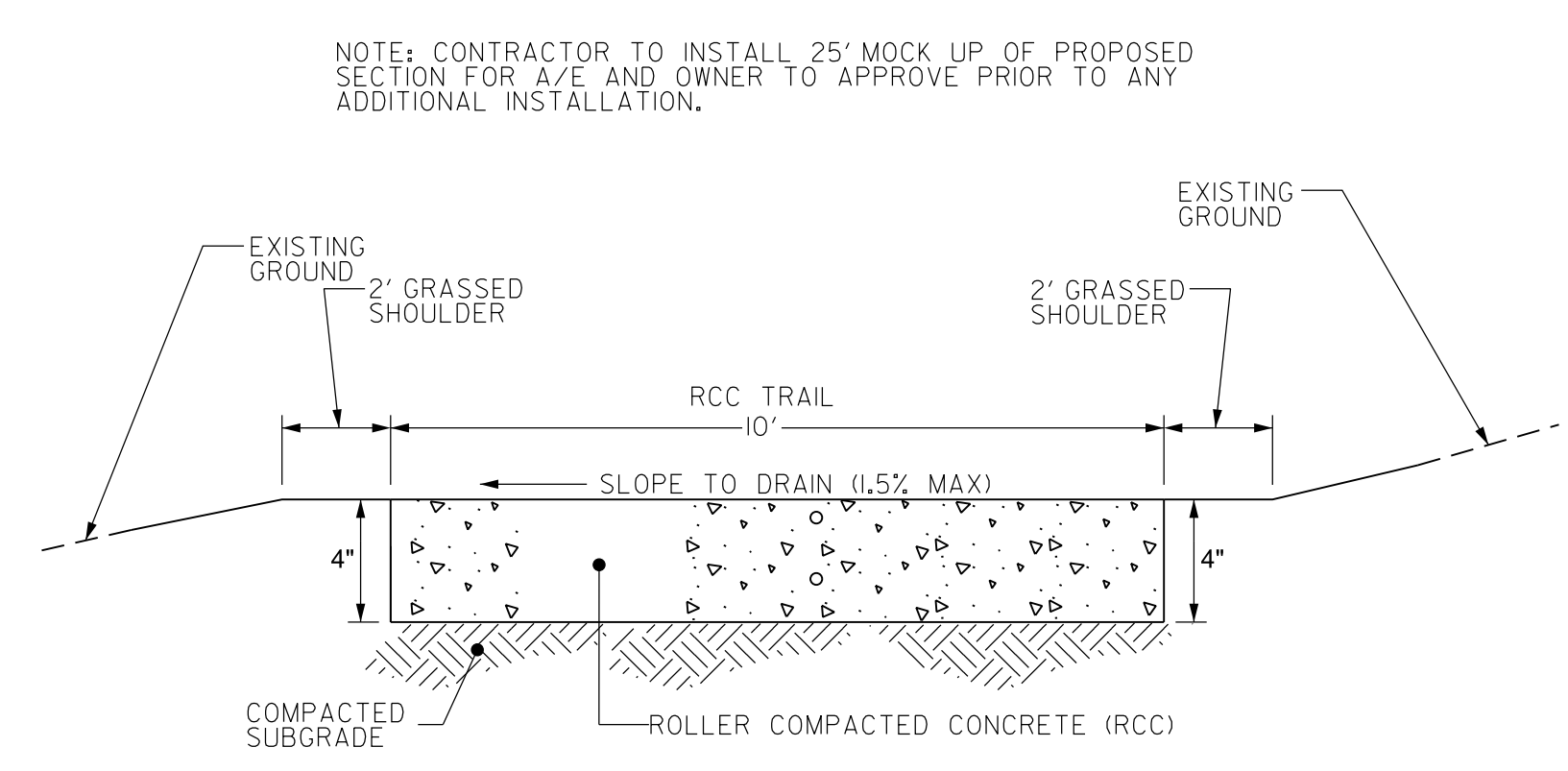
TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
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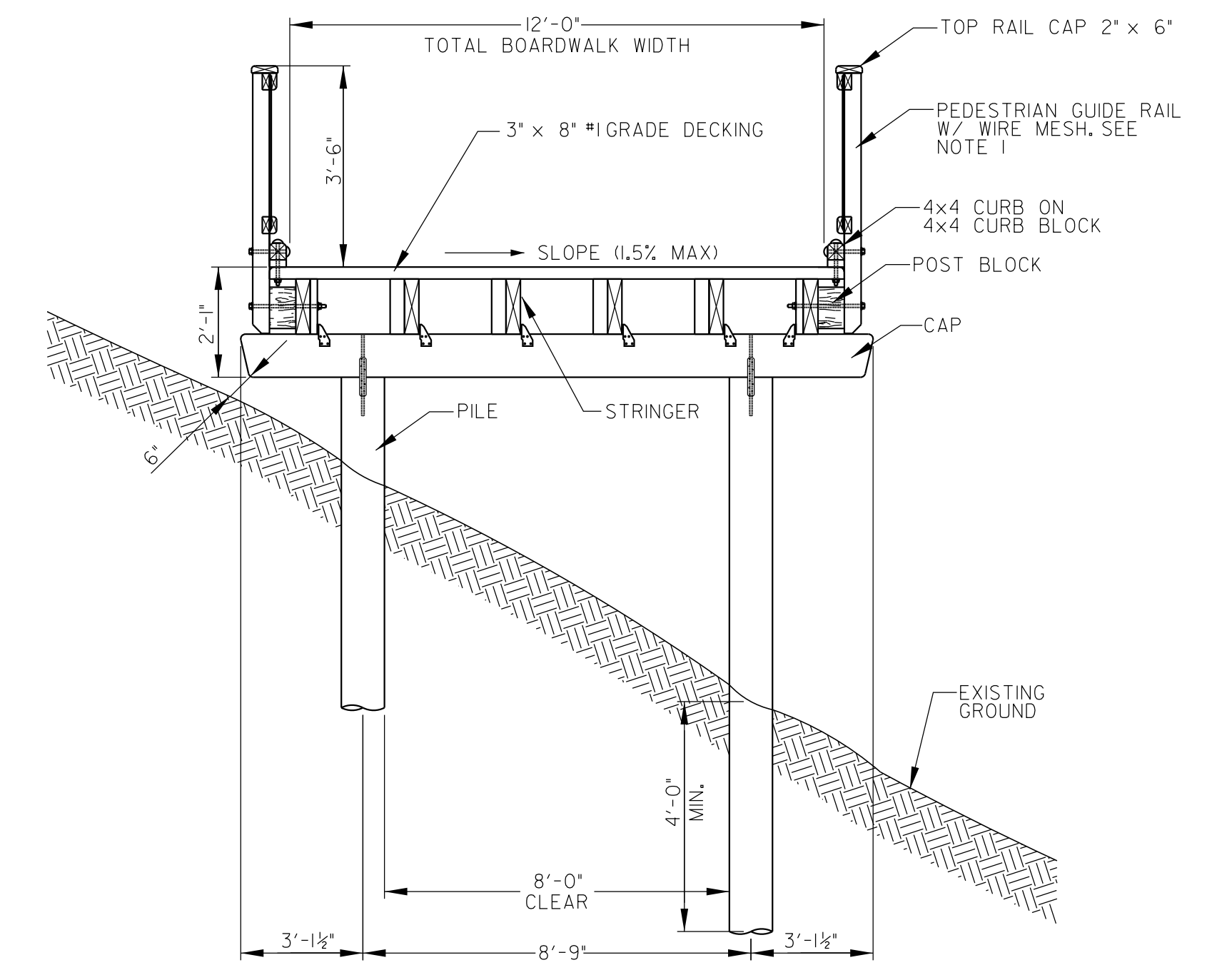
BWSC
BARGE WAGGONER & SUMNER, INC.
CANNON, INC.



TYPICAL SECTIONS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

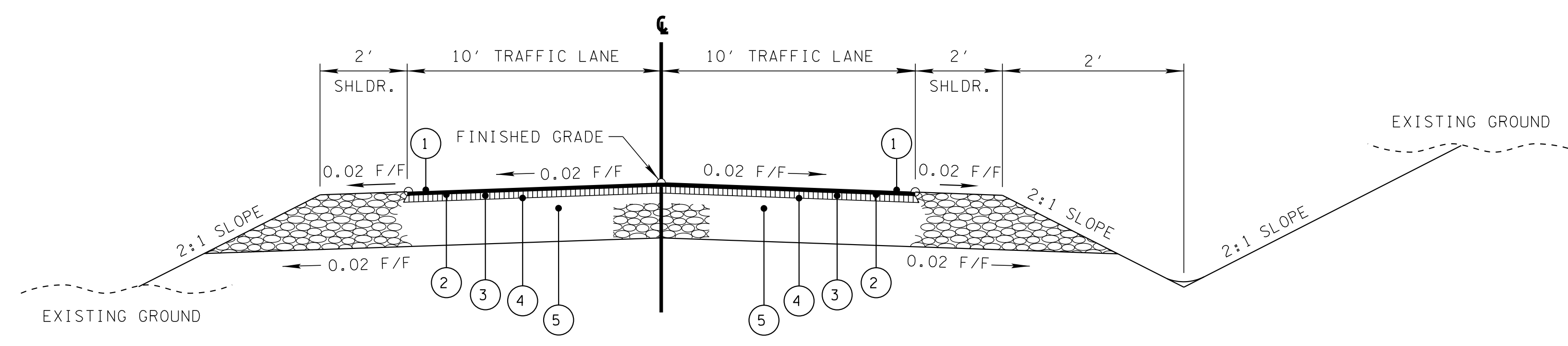


ROLLER COMPACTED CONCRETE WALKWAY SECTION
STA 10+00.00 TO STA 24+72.63



NOTE:
1. WIRE MESH TO BE BLACK POWDER COATED 6 GAUGE GALVANIZED WIRE HOG FENCE WITH 4 x 4 SQUARE MESH PATTERN.
2. PEDESTRIAN GUIDE RAIL NOT REQUIRED IF HEIGHT OF GROUND IS LESS THAN 24'. CURB ON BLOCK STILL REQUIRED.

BOARDWALK SECTION
STA 24+72.63 TO STA 40+83.75



YOUNGSTOWN ROAD SECTION
STA 100+00.00 TO STA 102+72.02
(BASED ON STD. DWG. RD01-TS-1A)

PAVEMENT SCHEDULE	
1	1/4" ASPHALTIC CONCRETE SURFACE MIX - ITEM NO. 411-01.11 (ACS) MIX (PG64-22) GRADING "E" SURFACE (132.5 LBS./S.Y.)
2	TACK COAT - ITEM NO. 403-01 BITUMINOUS MATERIAL (GENERAL USE - 0.05 TO 0.10 GAL./S.Y.)
3	3" BINDER - ITEM NO. 307-01.07 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M" (339 LBS./S.Y.)
4	PRIME COAT - ITEM NO. 402-01 BITUMINOUS MATERIAL (0.30 TO 0.35 GALS./S.Y.)
5	8" MINERAL AGGREGATE BASE AND FULL DEPTH SHOULDERS - ITEM NO. 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"

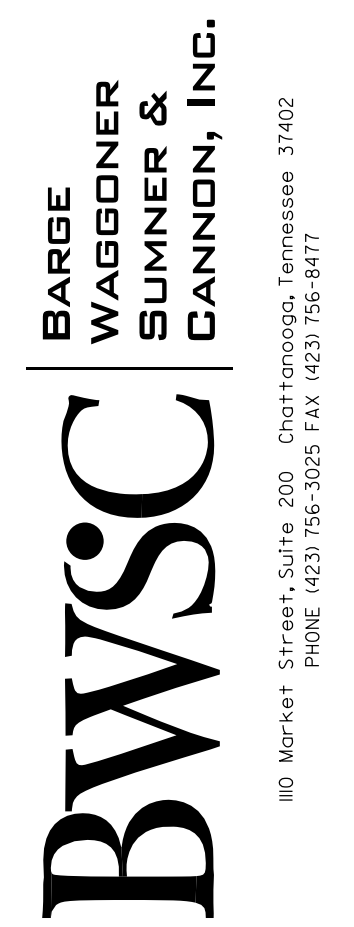
REVISION INFORMATION	
DATE	DESCRIPTION
06-04-2019	ISSUED FOR BID

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TYPE	YEAR	PROJECT NO.
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LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT



GENERAL NOTES
 TENNESSEE DEPARTMENT OF TRANSPORTATION
 SOUTH CHICKAMAUGA GREENWAY
 YOUNGSTOWN ROAD CONNECTOR
 HAMILTON COUNTY

REV.	DATE	CHK.	DR.	DESCRIPTION
0	06-04-2019	AGH	AGH	ISSUED FOR BID

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FILE NO. 35531-10

GENERAL NOTES

GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

GUARDRAIL

- (1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

DRAINAGE

- (1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (2) EXCAVATION FOR DRAINAGE STRUCTURES WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).
- (3) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (4) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01.06 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).
- (5) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.
- (6) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.
- (7) ALL EXISTING PIPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER THAT ARE TO BE LEFT IN PLACE AND ABANDONED MUST BE BACKFILLED AND PLUGGED. ALL COST FOR THIS WORK SHALL BE INCLUDED IN ITEM NO. 204-08.01, BACKFILL MATERIAL (FLOWABLE FILL), C.Y.

MISCELLANEOUS

- (1) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.
- (2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.
- (3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

ROAD CLOSURE

- (1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES

COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

- (1) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.

FINAL PAVEMENT MARKING

- (2) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4IN LINE), L.M.
- (3) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6IN LINE), L.M.

PAVEMENT

PAVING

- (1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.
- (2) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

RESURFACING

- (3) WHERE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (4) ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.
- (5) PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL ONE FOOT OF WIDTH PER ONE INCH DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.
- (6) ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.
- (7) ON URBAN TYPICAL SECTIONS, (CURB AND GUTTER), RESIDENTIAL DRIVEWAYS AND BUSINESS ENTRANCES SHALL HAVE A MINIMUM WIDTH OF MATERIAL NOT LESS THAN ONE FOOT USED IN THE TRANSITION TO FEATHER THE PAVEMENT EDGE.
- (8) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE ENGINEER.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- (3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- (4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (5) USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- (6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- (7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- (8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

EROSION PREVENTION AND SEDIMENT CONTROL

INSPECTION, MAINTENANCE & REPAIR

- (1) REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN SHEETS (S-1) FOR SWPPP, PERMITS, AND RECORDS NOTES.

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LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

BARGE WAGGONER & SUMNER, INC.

BWSC

110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477



SPECIAL NOTES

TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION			
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SPECIAL NOTES

GRADING

- THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.
- BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.
- TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT S&ME.
- THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- EARTHWORK IS PAID FOR UNDER ITEM 203-01.06, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

PAVEMENT

RESURFACING

- TRAFFIC WILL BE ALLOWED TO TEMPORARILY DRIVE ON THE MILLED SURFACE OF THE ROADWAY UNDER THE FOLLOWING CONDITIONS ONLY:
 - THE MILLED SURFACE IS FINE TEXTURED. THE FINE TEXTURE SHALL BE OBTAINED BY A MILLING MACHINE UTILIZING A MILLING HEAD WITH TEETH SPACING 3/8" OR LESS OPERATING AT LESS THAN 80 FEET PER MINUTE.
 - THE SURFACE SHALL BE SWEEPED AND CLEANED OF ALL LOOSE MATERIALS.
 - THE DIFFERENCE IN ELEVATION BETWEEN THE MILLED SURFACE AND THE ADJACENT LANE SHALL NOT EXCEED 1 1/2 INCHES.
 - THE MILLED SURFACE SHALL BE PAVED WITHIN 72 HOURS IF THE CURRENT ADT IS ≥ 70,000 OR WITHIN 96 HOURS IF THE CURRENT ADT IS < 70,000.
 - RAIN OR INCLEMENT WEATHER IS NOT EXPECTED OR FORECASTED WITHIN 48 HOURS AFTER MILLING.
 - ALL APPLICABLE SIGNING IS INSTALLED IN ACCORDANCE WITH THE MUTCD. SIGNING SHALL INCLUDE MOTORCYCLE WARNING SIGNS (TN-64) PLACED IN ADVANCE OF ANY MILLED AREAS.
 - IF MILLED SURFACE BEGINS TO DETERIORATE, PAVING TO COVER UP DETERIORATING MILLED SURFACES SHOULD OCCUR AS DIRECTED BY THE ENGINEER DURING THE NEXT WORKING DAY. IF SEVERE DISTRESS OCCURS, IMMEDIATE RESPONSE WILL BE REQUIRED.
 - ONLY ONE LANE IN EACH DIRECTION SHALL HAVE A MILLED SURFACE AT ONE TIME.

EROSION PREVENTION AND SEDIMENT CONTROL

ENVIRONMENTAL

- STAFF FROM BARGE DESIGN SOLUTIONS AND S&ME SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

ECOLOGY

- STAFF FROM THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN BARGE DESIGN SOLUTIONS OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.
- STAFF FROM THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.
- ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

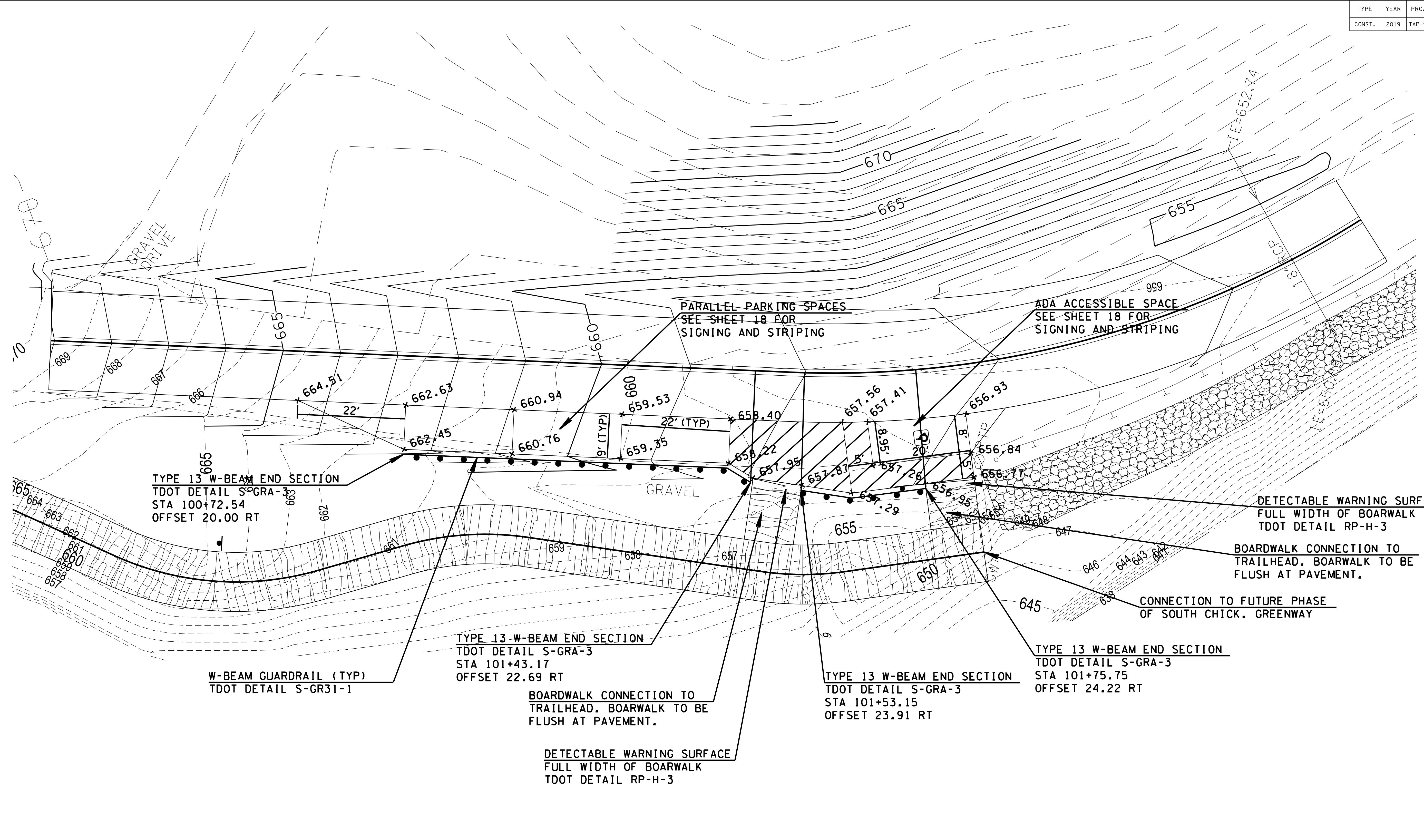
CITY OF CHATTANOOGA GRADING NOTE

- PRIOR TO FINAL ACCEPTANCE BY THE CITY ENGINEER AND/OR ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE OWNER OR OWNER'S AGENT SHALL:
 - SUBMIT AN INVENTORY OF THE CONSTRUCTED STORMWATER DRAINAGE SYSTEM, WHETHER PUBLIC OR PRIVATE, TO THE CITY OF CHATTANOOGA IN ELECTRONIC FORMAT. ELECTRONIC AS-BUILT DRAWINGS IN TENNESSEE STATE PLANE COORDINATES SHALL BE SUBMITTED IN AUTOCAD AND PDF FORMAT AND SHALL SHOW PLAINLY THE APPROVED AND CONSTRUCTED LAYOUT OF THE STORMWATER SYSTEMS. THE AS-BUILT DRAWING(S) SHALL INCLUDE ALL STORMWATER FEATURES, WHETHER NEW OR EXISTING, INCLUDING THE OUTFALL TO THE CITY DRAINAGE SYSTEM (EX: CATCH BASINS, CONDUITS, HYDROLOGIC FEATURES INCLUDING PONDS, STREAMS, CULVERT INLETS AND OUTFALLS, ALL PERVIOUS SURFACES, ETC).
 - COMPLY WITH ALL PERMANENT LANDSCAPE REQUIREMENTS AND SCHEDULE A LANDSCAPE INSPECTION WITH THE CITY OF CHATTANOOGA'S STORMWATER INSPECTOR. AN APPOINTMENT MAY BE MADE BY CALLING THE STORMWATER INSPECTOR A MINIMUM OF TWO BUSINESS DAYS BEFORE THE DESIRED INSPECTION APPOINTMENT.
 - ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST COMPLY WITH THE CURRENT EDITION OF THE TN EROSION & SEDIMENT CONTROL MANUAL, THE CITY OF CHATTANOOGA BMP MANUAL, AND THE TDEC CONSTRUCTION GENERAL PERMIT (IF APPLICABLE).

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BWSC
 BARGE
 WAGGONER
 SUMNER &
 CANNON, INC.
 110 Market Street, Suite 200, Chattanooga, Tennessee 37402
 PHONE (423) 756-3025 FAX (423) 756-8477



DETAIL 1
 TRAILHEAD PARKING ENLARGED PLAN
 SCALE: 1" = 10'

DETAIL SHEET

REVISION INFORMATION

REV.	DATE	CHK.	DR.	DESCRIPTION
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110 Market Street, Suite 200, Chattanooga, Tennessee 37402
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UTILITY NOTES AND OWNERS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

UTILITIES

- (1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- (2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- (3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- (5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

UTILITY OWNERS

CABLE:
COMCAST
2030 EAST POLYMER DRIVE
CHATTANOOGA, TN 37421
CONTACT: MIKE SCHLOTE
OFFICE PHONE: 423 255 3900

ELECTRIC:
ELECTRIC POWER BOARD
10 WEST M.L. KING BOULEVARD
CHATTANOOGA, TN 37422
CONTACT: BRANDON CULPEPPER
OFFICE PHONE: 423 648 4643

WATER:
EASTSIDE UTILITY DISTRICT
3018 HICKORY VALLEY ROAD
CHATTANOOGA, TN 37421
CONTACT: RICHARD READING
OFFICE PHONE: 423 490 9522

TELEPHONE:
AT&T
300 EAST M.L. KING BOULEVARD
CHATTANOOGA, TN 37403
CONTACT: JOE PERREL
OFFICE PHONE: 423 266 1566

GAS:
CHATTANOOGA GAS COMPANY
6125 PRESERVATION DRIVE
CHATTANOOGA, TN 37416
CONTACT: JANA HALL-PAPA
OFFICE PHONE: 423 490 4315

SEWER:
CITY OF CHATTANOOGA PUBLIC WORKS
1250 MARKET STREET
CHATTANOOGA, TN 37402
CONTACT: ENGINEERING DIVISION
OFFICE PHONE: 423 643 6311

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

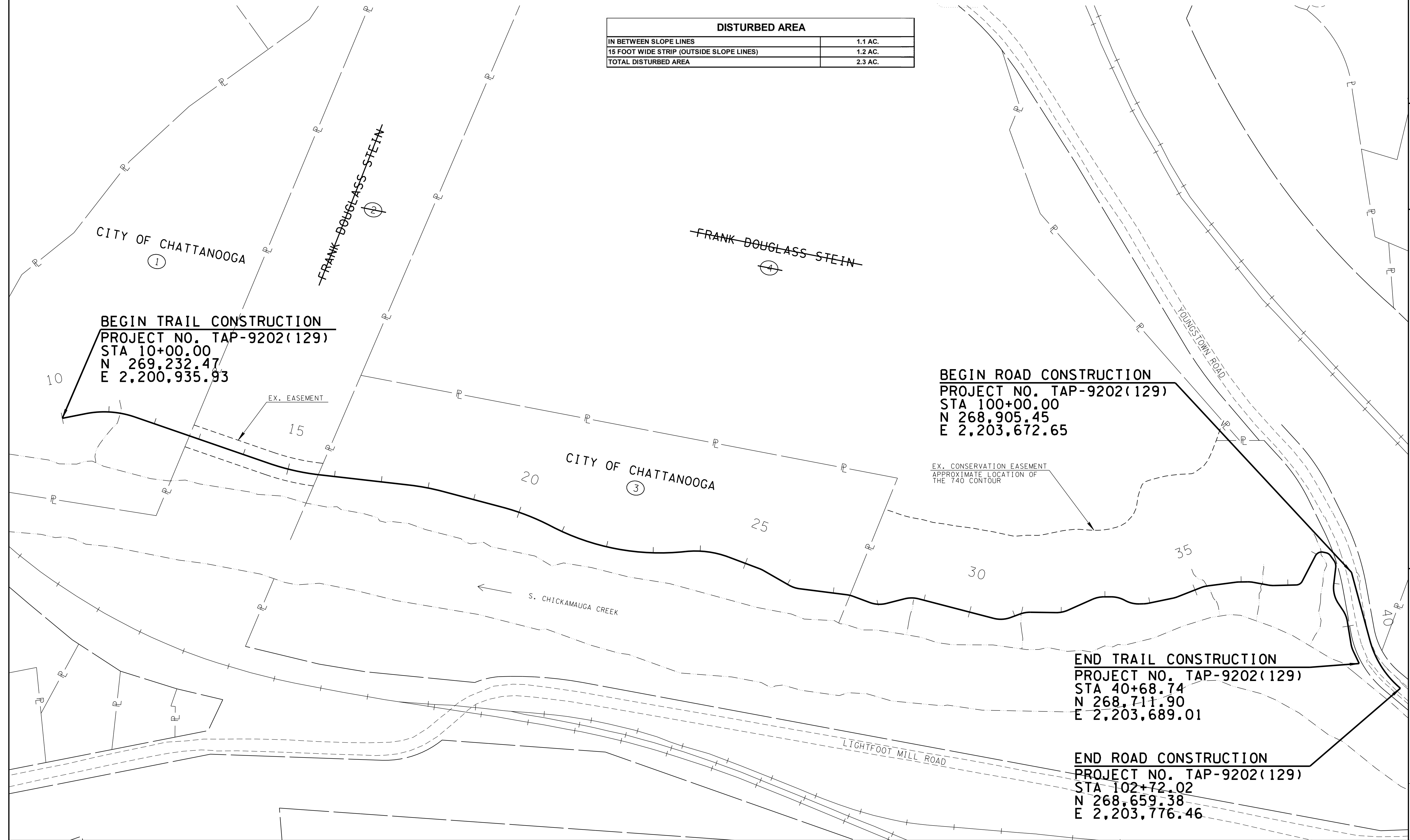
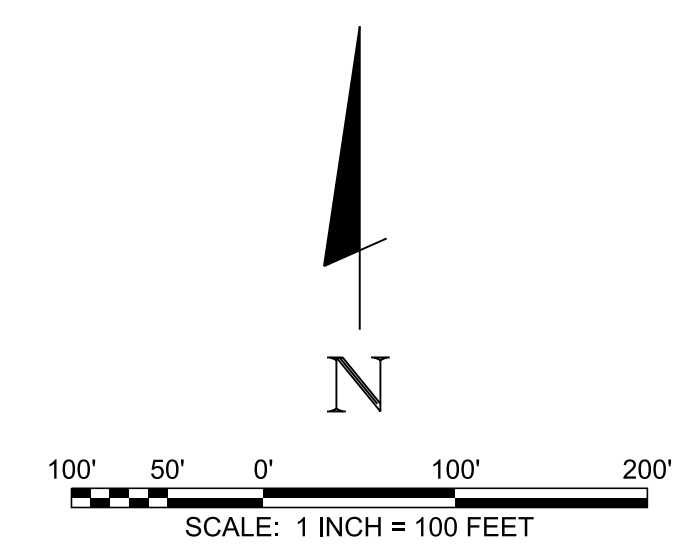
LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

BWSC
BARGE WAGGONER SUMNER & CANNON, INC.
110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477



TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	PERM.	SLOPE	CONST.
				BK.	PAGE						
1	CITY OF CHATTANOOGA	128N-A	002.01	9102	387	47.270		47.270			
2	FRANK DOUGLASS STEIN	128N-C	003	10497	73	7.630		7.630	14,308.32		
3	CITY OF CHATTANOOGA	128N-C	011	7869	487	10.160		10.160			
4	FRANK DOUGLASS STEIN	128N-C	007	11198	426	39.770		39.770	295,452.08		
5	CITY OF CHATTANOOGA	128N-C	014	11041	185	2.640		2.640			

DISTURBED AREA	
IN BETWEEN SLOPE LINES	1.1 AC.
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	1.2 AC.
TOTAL DISTURBED AREA	2.3 AC.



BEGIN TRAIL CONSTRUCTION
PROJECT NO. TAP-9202(129)
STA 10+00.00
N 269,232.47
E 2,200,935.93

BEGIN ROAD CONSTRUCTION
PROJECT NO. TAP-9202(129)
STA 100+00.00
N 268,905.45
E 2,203,672.65

END TRAIL CONSTRUCTION
PROJECT NO. TAP-9202(129)
STA 40+68.74
N 268,711.90
E 2,203,689.01

END ROAD CONSTRUCTION
PROJECT NO. TAP-9202(129)
STA 102+72.02
N 268,659.38
E 2,203,776.46

PROPERTY MAP, TABLE, AND DISTURBED AREA
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

3A

FILE NO. 35531-10

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

\$DCN\$

CONTROL DATA						
POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
2	269,224.20	2,200,920.16	652.67	9+84.14	6.70 RT.	NAIL
3	269,259.24	2,201,050.29	653.11	11+13.89	14.61 LT.	NAIL
4	269,205.90	2,201,055.23	651.93	11+80.47	22.73 RT.	NAIL
5	269,169.14	2,201,165.54	651.95	12+49.47	37.77 RT.	NAIL
6	269,168.19	2,201,218.87	651.26	13+00.19	21.25 RT.	NAIL
7	269,148.37	2,201,267.40	651.06	13+52.54	24.14 RT.	NAIL
8	269,146.74	2,201,315.44	652.20	13+98.47	9.98 RT.	NAIL
9	269,156.31	2,201,355.62	652.31	14+33.32	12.19 LT.	NAIL
10	269,142.52	2,201,403.24	651.49	14+83.57	14.07 LT.	NAIL

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

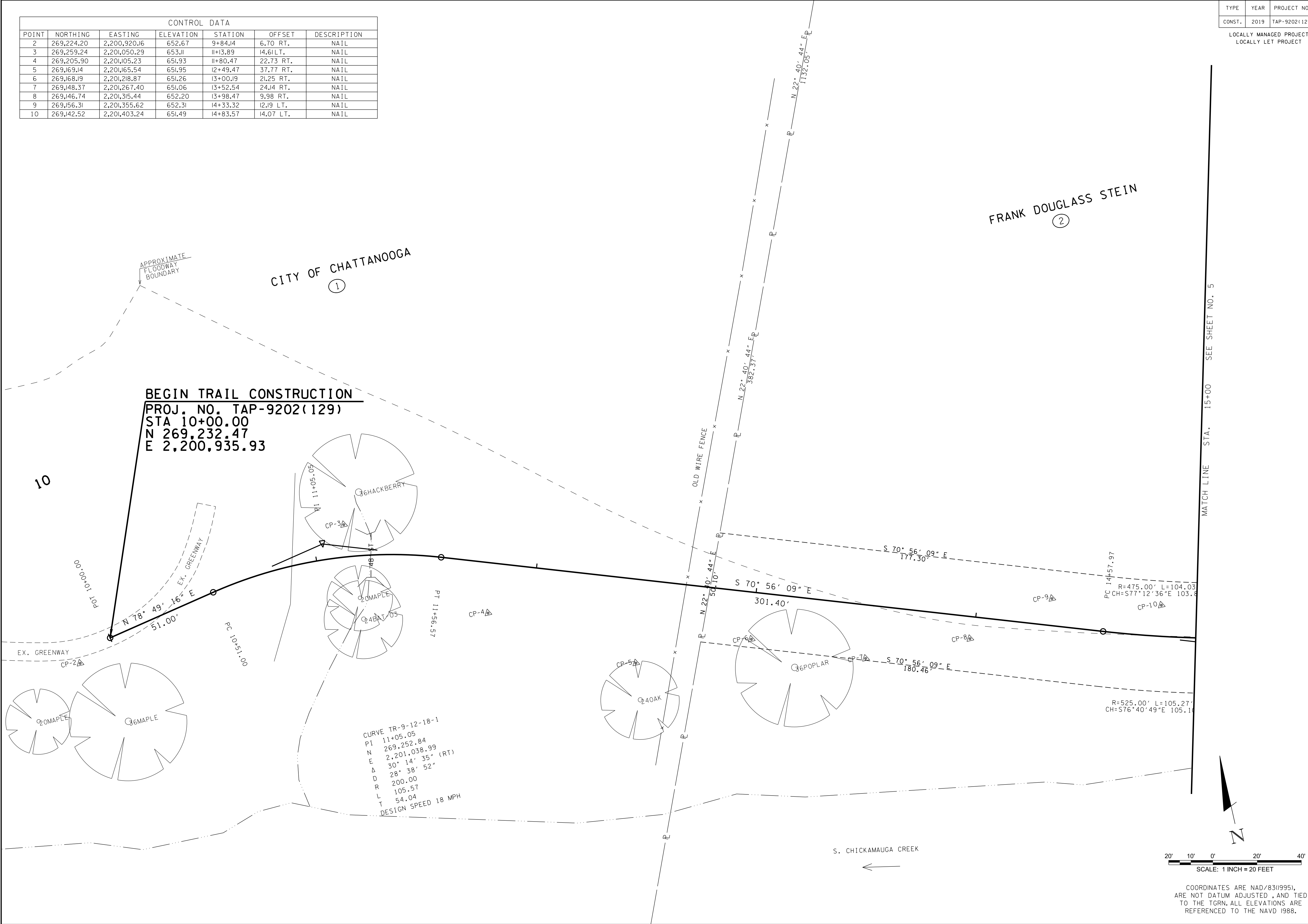
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PRESENT LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DATE	CHK.	DR.	DESCRIPTION
0	06-04-2019	AGH	AGH	ISSUED FOR BID

4
FILE NO. 35531-10



\$DATE\$
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\$USER\$
\$TBL\$

\$DCN\$

COORDINATES ARE NAD/83(1995),
ARE NOT DATUM ADJUSTED, AND TIED
TO THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

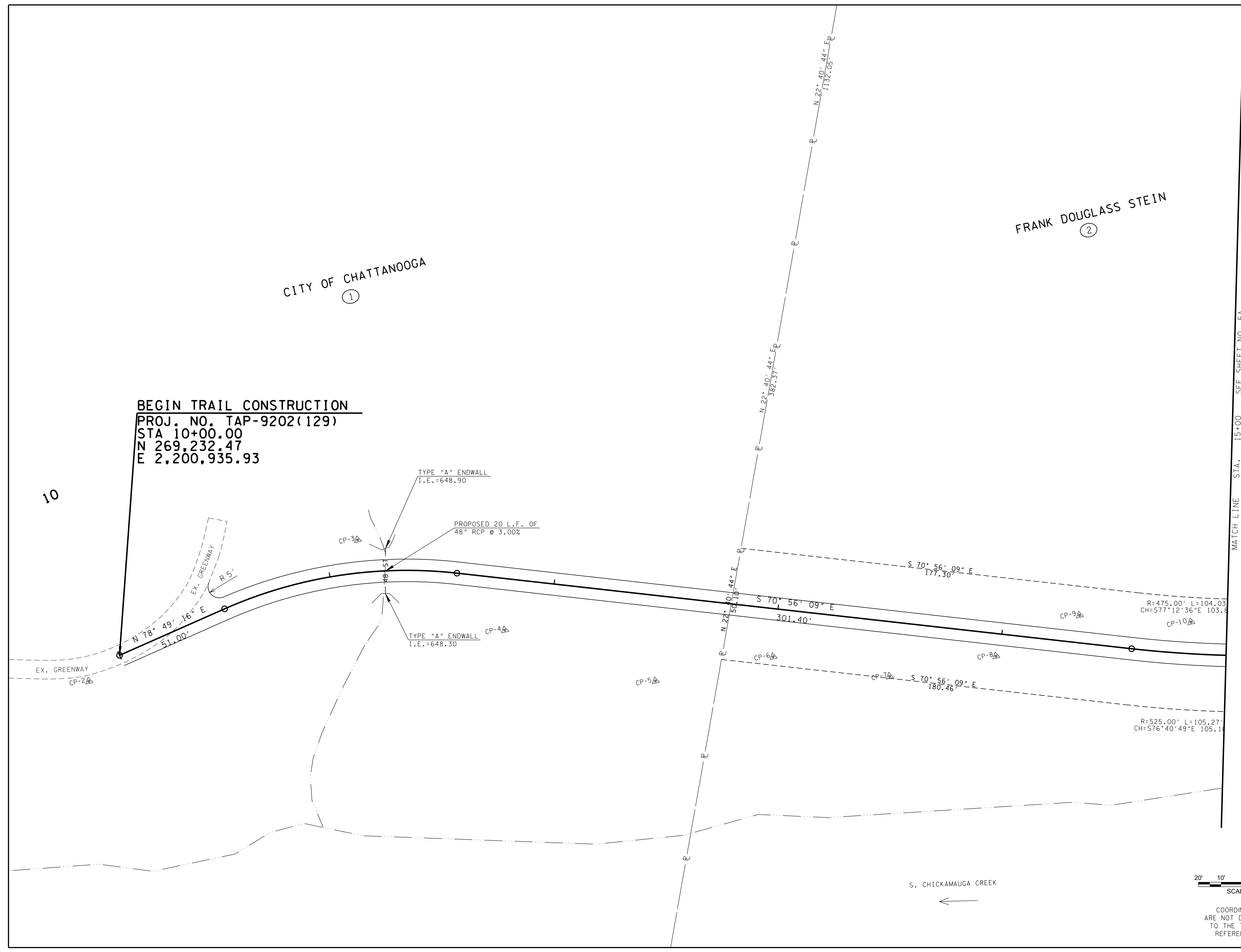
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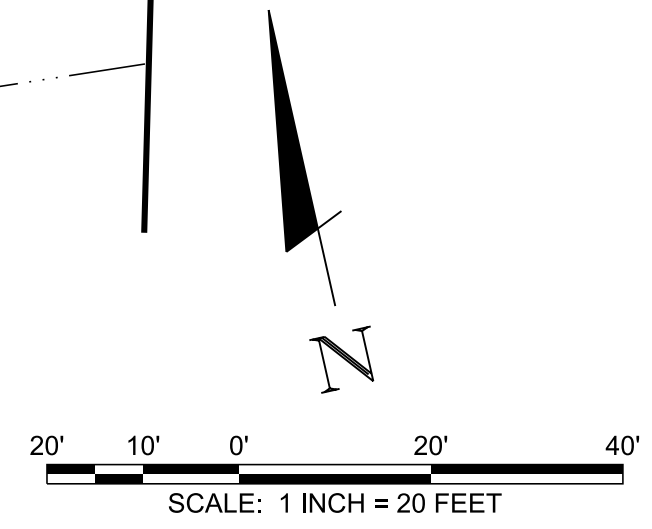
PROPOSED LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DATE	DESCRIPTION	ISSUED FOR BID
0	06-04-2019		

4A
FILE NO. 35531-10



BEGIN TRAIL CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 10+00.00
N 269,232.47
E 2,200,935.93



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ARE NOT DATUM ADJUSTED, AND TIED
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\$USER\$
\$TBL\$

\$DCN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

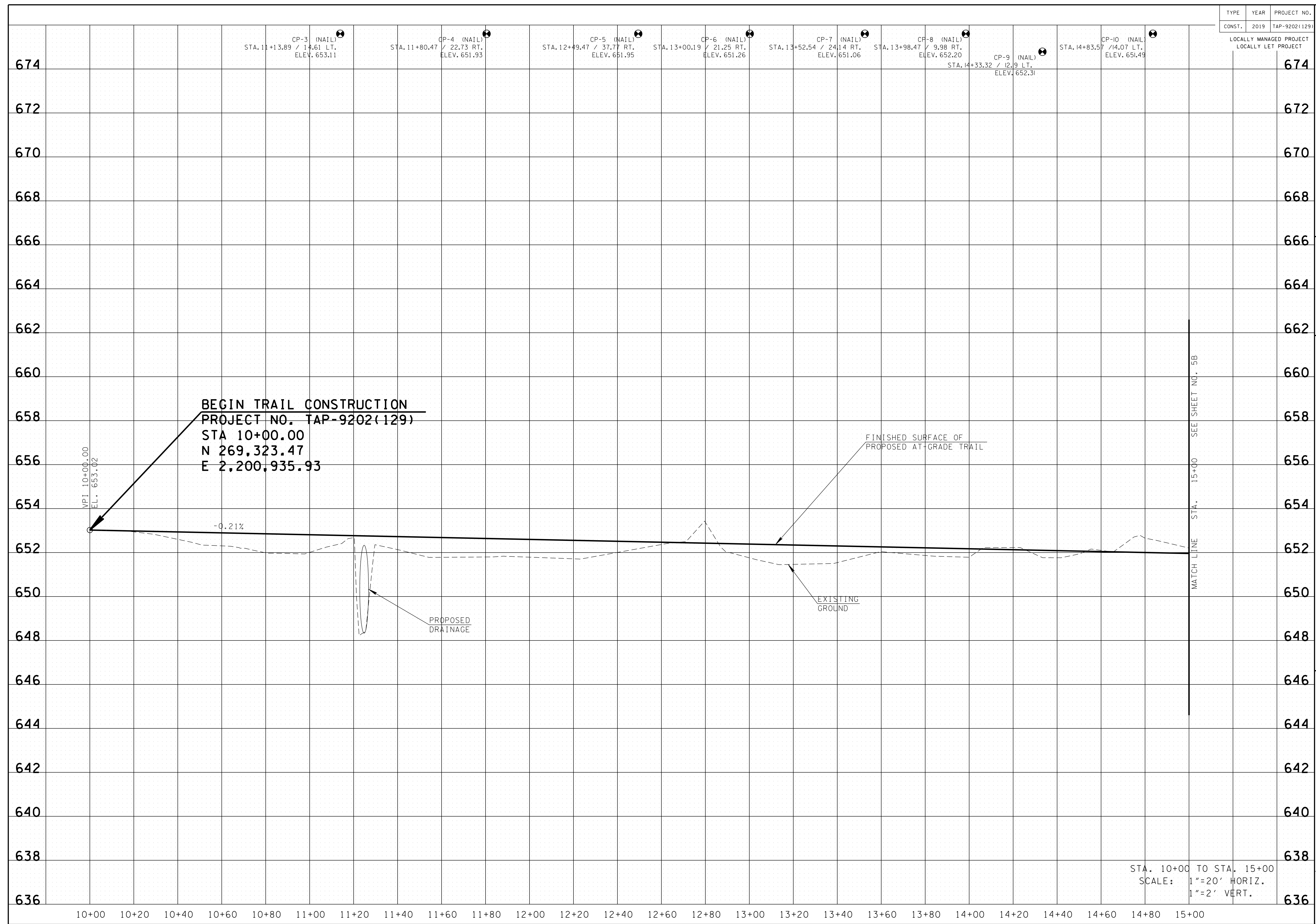
BWSC
BARGE WAGGONER SUMNER & CANNON, INC.
110 Market Street, Suite 200, Chattanooga, Tennessee 37402
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PROPOSED PROFILE
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

4B
FILE NO. 35531-10



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\$TBL\$

\$DGN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

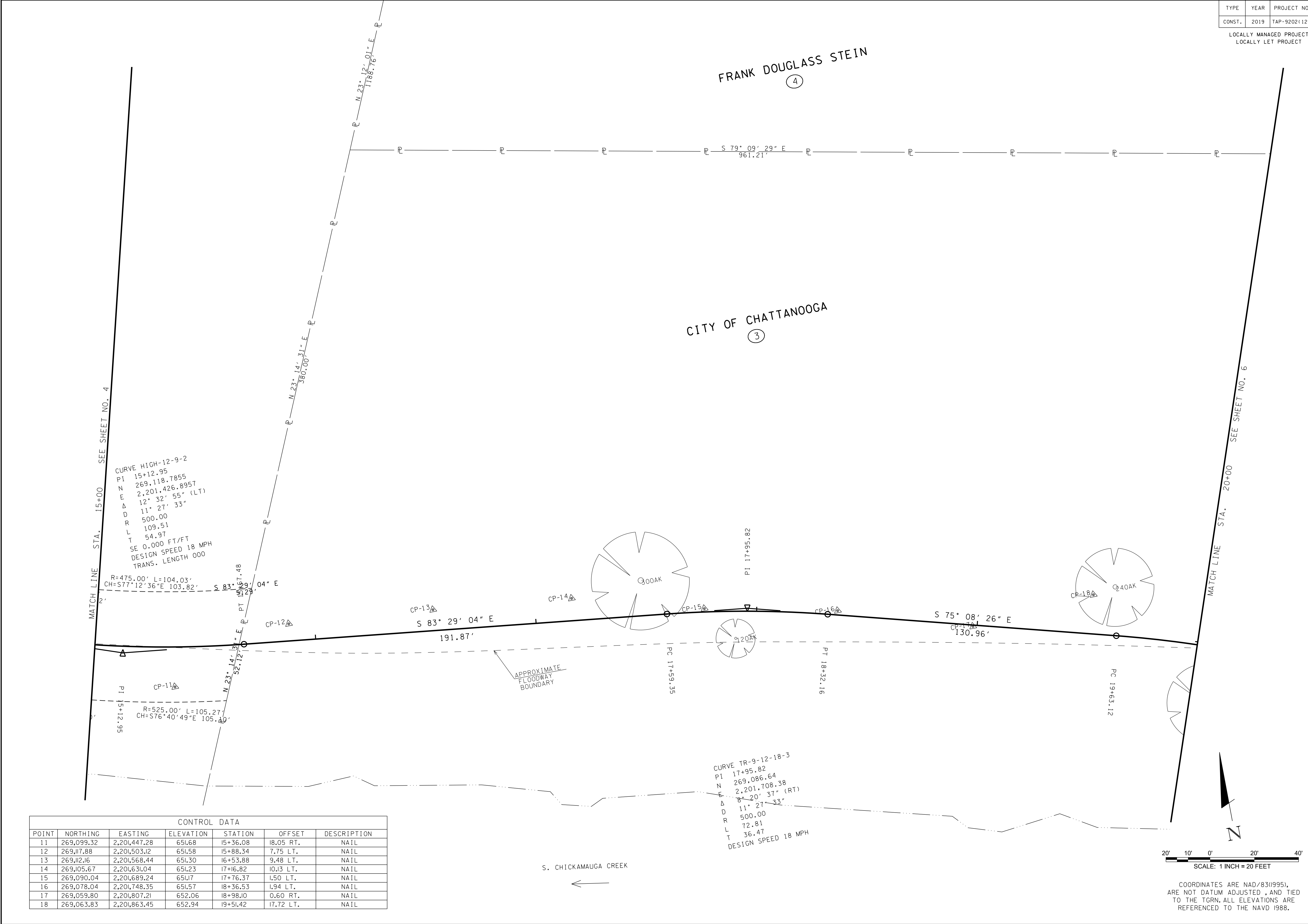
BWSC
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PHONE (423) 756-3025 FAX (423) 756-8477



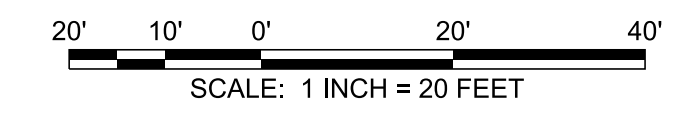
PRESENT LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	CHK.	DATE	DESCRIPTION
0	AGH	06-04-2019	ISSUED FOR BID

5
FILE NO. 35531-10



CONTROL DATA						
POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
11	269,099.32	2,201,447.28	651.68	15+36.08	18.05 RT.	NAIL
12	269,117.88	2,201,503.12	651.58	15+88.34	7.75 LT.	NAIL
13	269,112.16	2,201,568.44	651.30	16+53.88	9.48 LT.	NAIL
14	269,105.67	2,201,631.04	651.23	17+16.82	10.13 LT.	NAIL
15	269,090.04	2,201,689.24	651.17	17+76.37	1.50 LT.	NAIL
16	269,078.04	2,201,748.35	651.57	18+36.53	1.94 LT.	NAIL
17	269,059.80	2,201,807.21	652.06	18+98.10	0.60 RT.	NAIL
18	269,063.83	2,201,863.45	652.94	19+51.42	17.72 LT.	NAIL



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TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

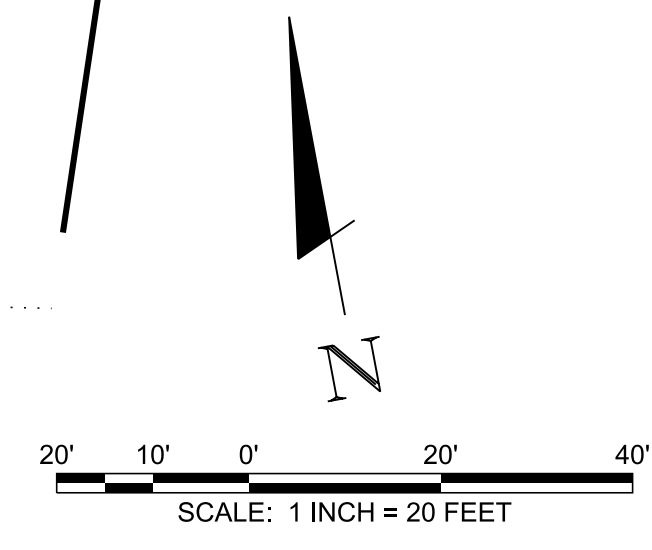
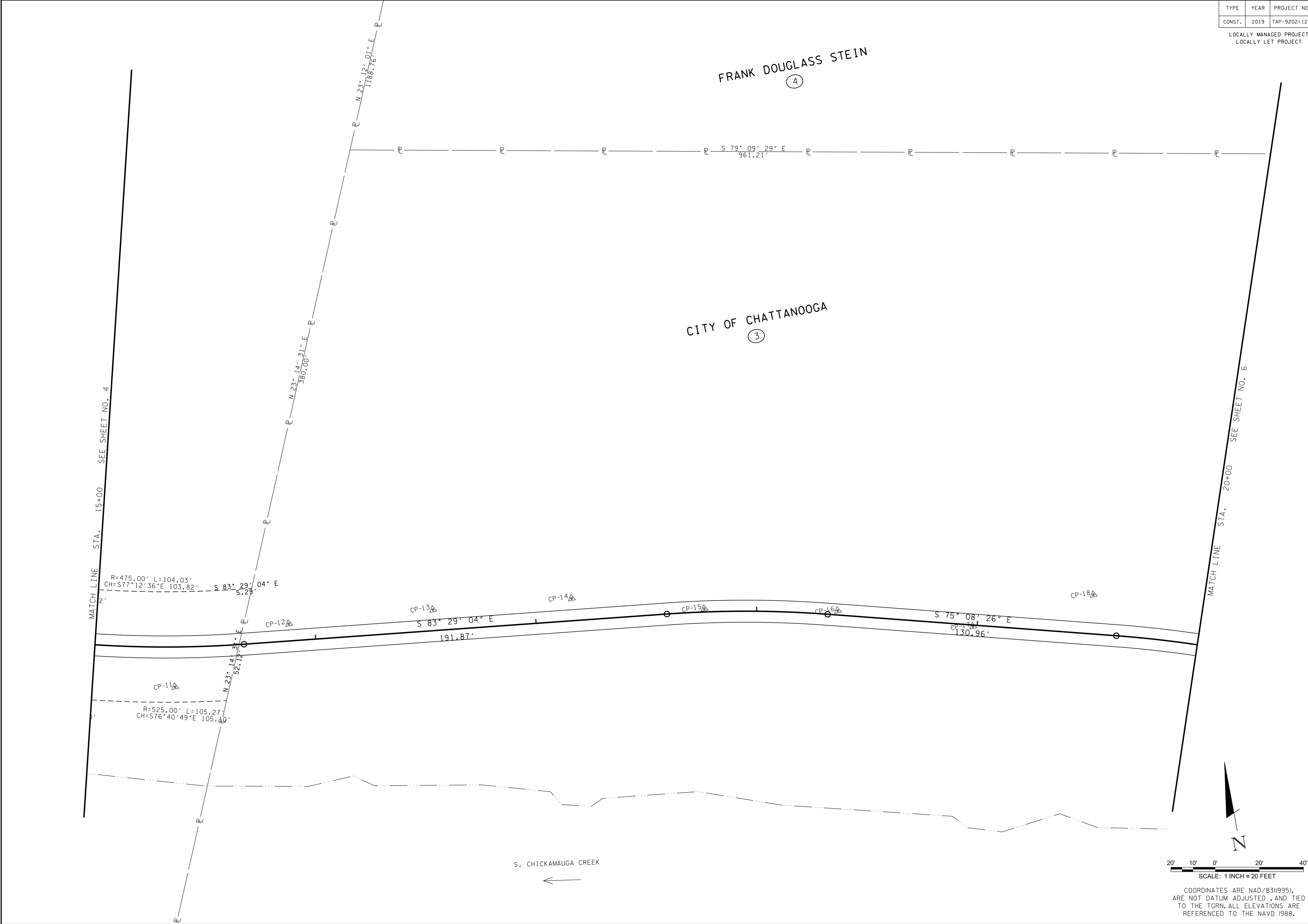
BWSC
BARGE WAGGONER SUMNER & CANNON, INC.
110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477



PROPOSED LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

5A
FILE NO. 35531-10



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TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

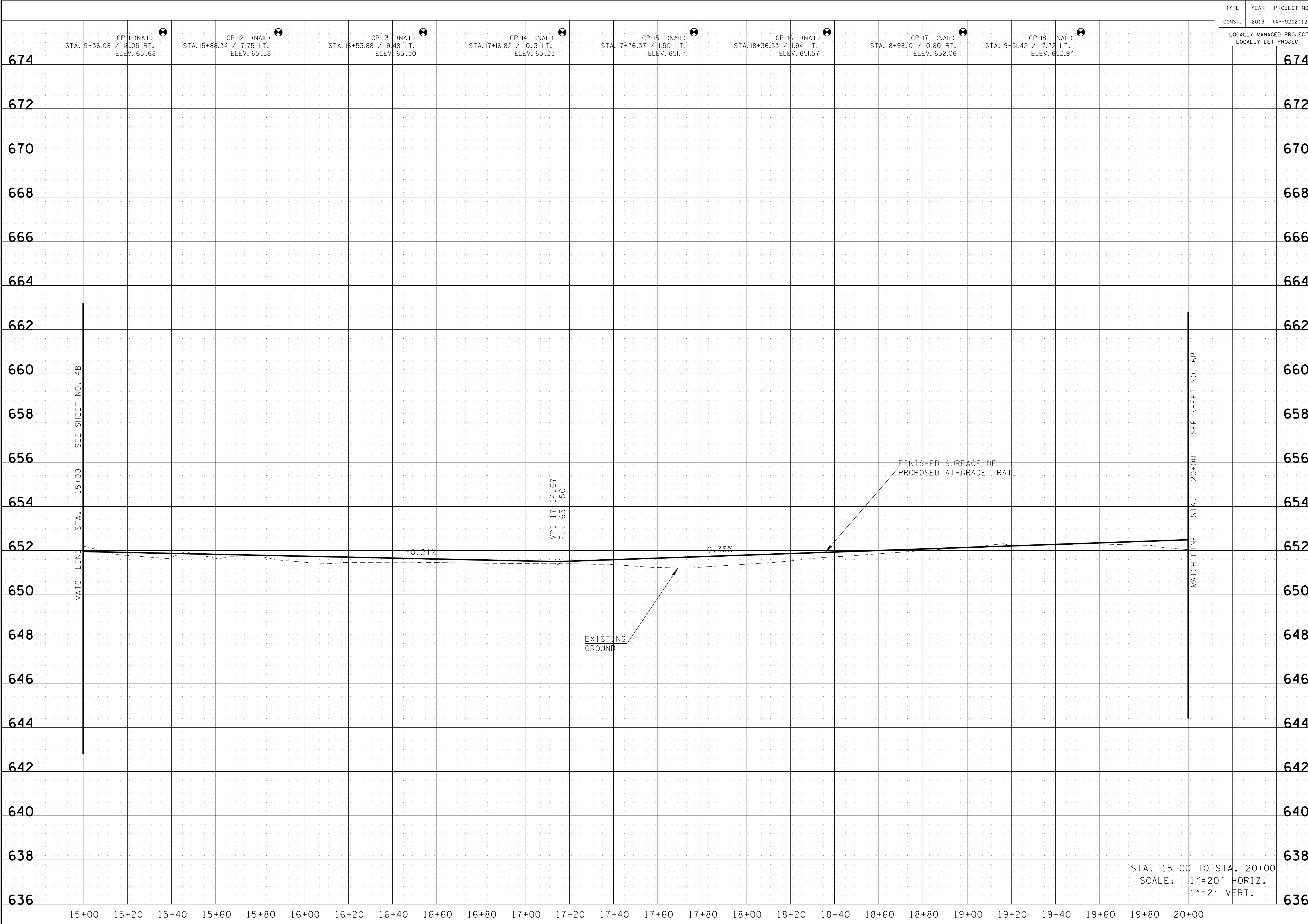
BWSC
BARGE WAGGONER SUMNER & CANNON, INC.
110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477



PROPOSED PROFILE
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

5B
FILE NO. 35531-10



STA. 15+00 TO STA. 20+00
SCALE: 1"=20' HORIZ.
1"=2' VERT.

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

\$DGN\$

CONTROL DATA						
POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
19	269,037.73	2,201,915.12	651.77	20+07.44	7.74 LT.	NAIL
20	269,018.45	2,201,982.21	651.33	20+75.02	17.20 LT.	NAIL
21	269,004.65	2,202,072.89	651.68	21+69.65	38.58 LT.	NAIL
22	268,955.66	2,202,079.23	653.30	21+89.49	6.93 RT.	NAIL
23	268,927.26	2,202,152.89	652.52	22+64.87	22.08 RT.	NAIL
24	268,915.67	2,202,226.51	652.56	23+35.10	31.49 RT.	NAIL
25	268,911.99	2,202,295.12	652.57	24+08.71	38.02 RT.	NAIL
26	268,923.42	2,202,352.56	653.05	24+69.05	12.79 RT.	NAIL

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

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PHONE (423) 756-3025 FAX (423) 756-8477



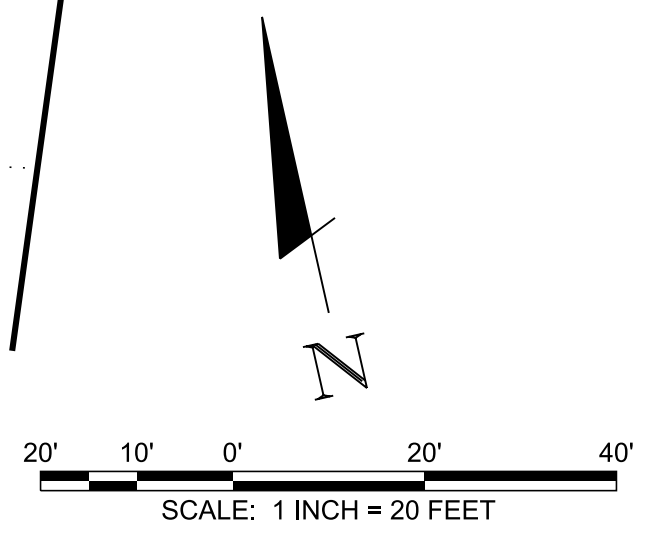
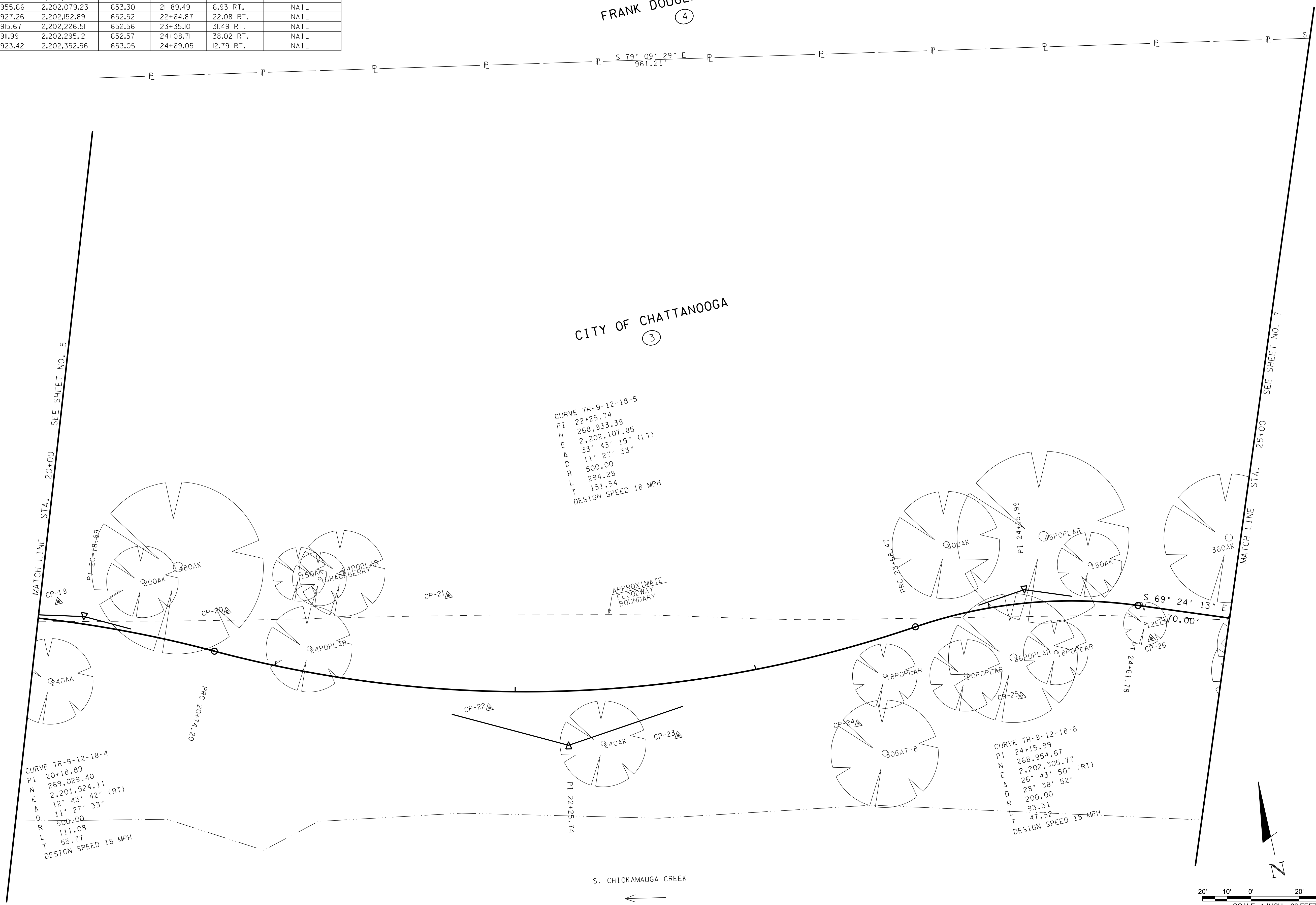
FRANK DOUGLASS STEIN
④

CITY OF CHATTANOOGA
③

CURVE TR-9-12-18-5
PI 22+25.74
N 268,933.39
E 2,202,107.85
Δ 33° 43' 19" (LT)
D 11° 27' 33"
R 500.00
L 294.28
T 151.54
DESIGN SPEED 18 MPH

CURVE TR-9-12-18-6
PI 24+15.99
N 268,954.67
E 2,202,305.77
Δ 26° 43' 50" (RT)
D 28° 38' 52"
R 200.00
L 93.31
T 47.52
DESIGN SPEED 18 MPH

CURVE TR-9-12-18-4
PI 20+18.89
N 269,029.40
E 2,201,924.11
Δ 12° 43' 42" (RT)
D 11° 27' 33"
R 500.00
L 111.08
T 55.77
DESIGN SPEED 18 MPH



PRESENT LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION		
REV.	DATE	DESCRIPTION
0	06-04-2019	ISSUED FOR BID

6

FILE NO. 35531-10

\$DATE \$
\$TIME \$
\$INSTR \$
\$USER \$
\$TBL \$

\$DCN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)
LOCALLY MANAGED PROJECT		LOCALLY LET PROJECT

BWSC
BARGE WAGGONER & SUMNER & CANNON, INC.
 110 Market Street, Suite 200, Chattanooga, Tennessee 37402
 PHONE (423) 756-3025 FAX (423) 756-8477



PROPOSED LAYOUT
 TENNESSEE DEPARTMENT OF TRANSPORTATION
 SOUTH CHICKAMAUGA GREENWAY
 YOUNGSTOWN ROAD CONNECTOR
 HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

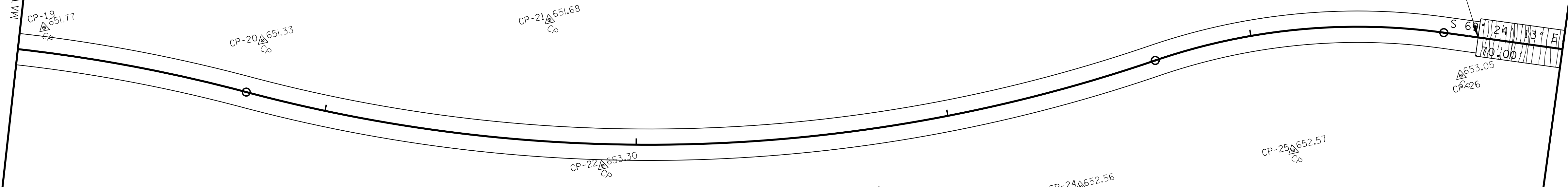
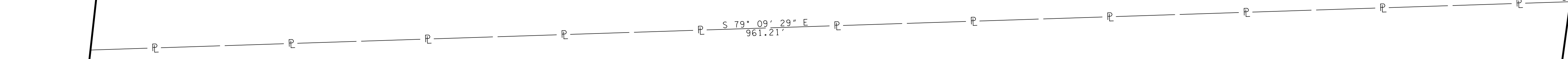
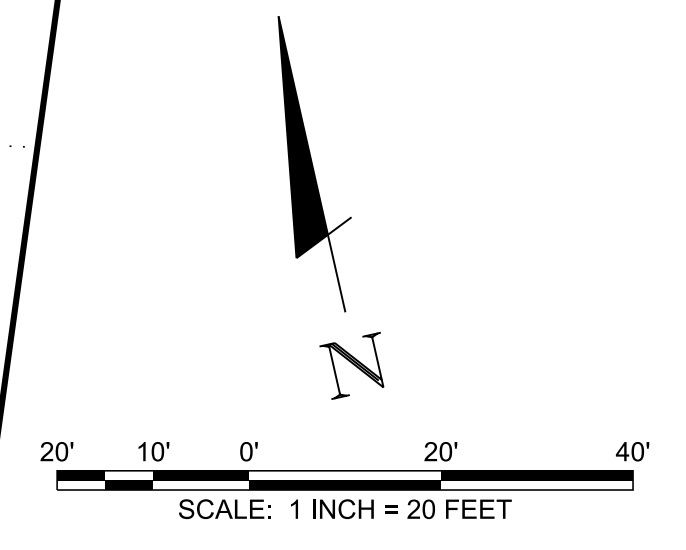
6A
 FILE NO. 35531-10

FRANK DOUGLASS STEIN
 (4)

CITY OF CHATTANOOGA
 (3)

S. CHICKAMAUGA CREEK
 ←

END AT-GRADE TRAIL
 BEGIN BOARDWALK
 STA 24+72.83
 ELEV. 654.12



MATCH LINE STA. 20+00 SEE SHEET NO. 5A

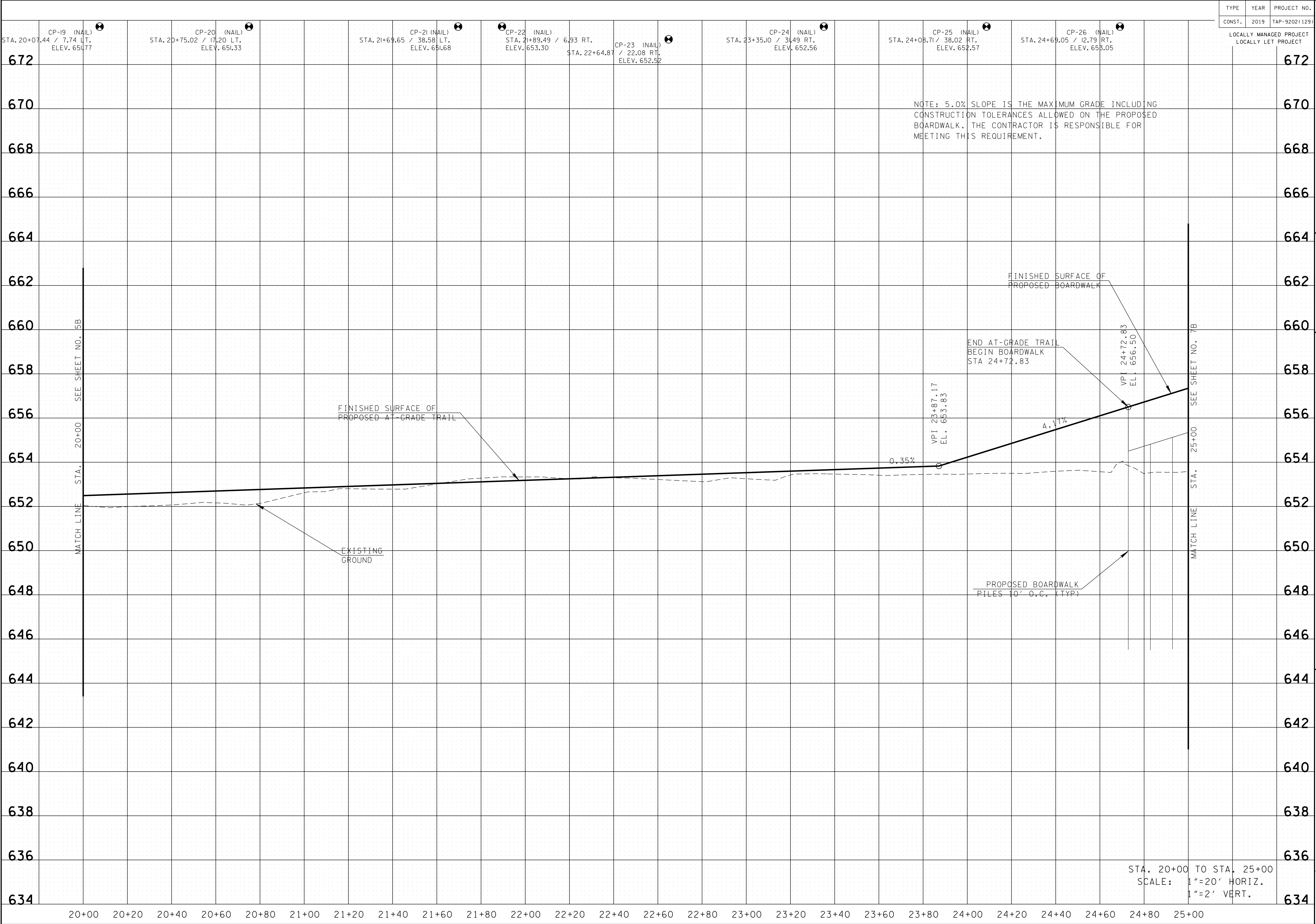
MATCH LINE STA. 25+00 SEE SHEET NO. 7A

\$DATE\$
 \$TIME\$
 \$INSTR\$
 \$USER\$
 \$TBL\$

\$DCN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

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PROPOSED PROFILE
 TENNESSEE DEPARTMENT OF TRANSPORTATION
 SOUTH CHICKAMAUGA GREENWAY
 YOUNGSTOWN ROAD CONNECTOR
 HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

DATE: 06-04-2019
 DR. AGH
 CHK. BCB
 FILE NO. 35531-10

\$DATE\$
 \$TIME\$
 \$INSTR\$
 \$USER\$
 \$TBL\$

CONTROL DATA						
POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
27	268,932.76	2,202,397.07	655.02	25+07.44	11.61 LT.	NAIL
28	268,891.16	2,202,433.19	652.74	25+57.97	11.35 RT.	NAIL
29	268,876.43	2,202,490.77	652.58	26+17.04	4.40 LT.	NAIL
30	268,863.61	2,202,544.86	652.19	26+72.31	1.47 RT.	NAIL
31	268,847.71	2,202,612.39	652.69	27+43.16	7.25 RT.	NAIL
32	268,841.26	2,202,669.50	653.82	28+02.79	5.65 LT.	NAIL
33	268,837.67	2,202,722.96	652.78	28+53.70	11.05 RT.	NAIL
34	268,816.54	2,202,758.75	652.15	29+00.68	30.68 RT.	NAIL
35	268,820.34	2,202,817.83	655.68	29+57.69	12.94 RT.	NAIL

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

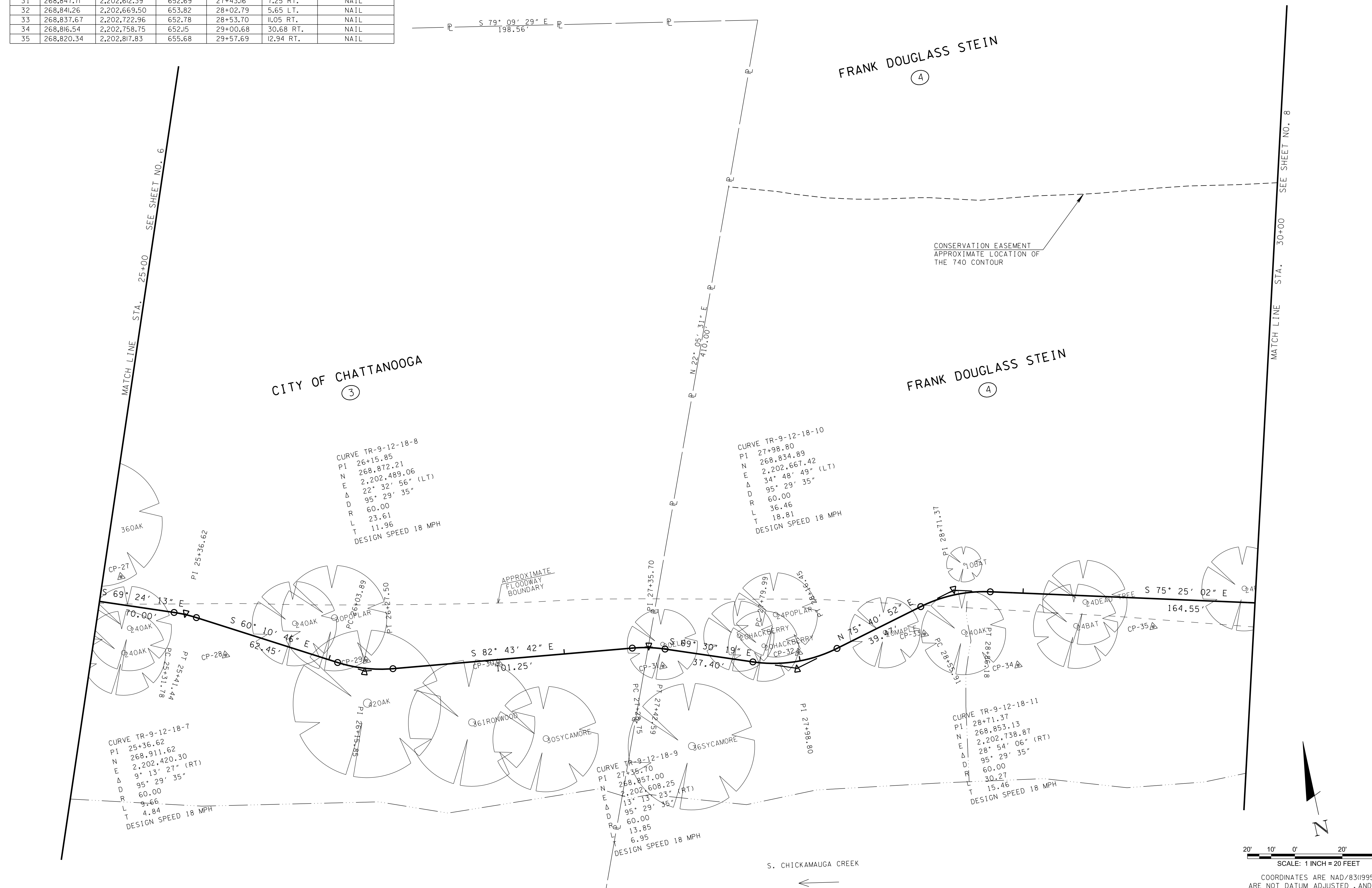
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PRESENT LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

7
FILE NO. 35531-10



\$DATE\$
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\$DGN\$

COORDINATES ARE NAD/83(1995),
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TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

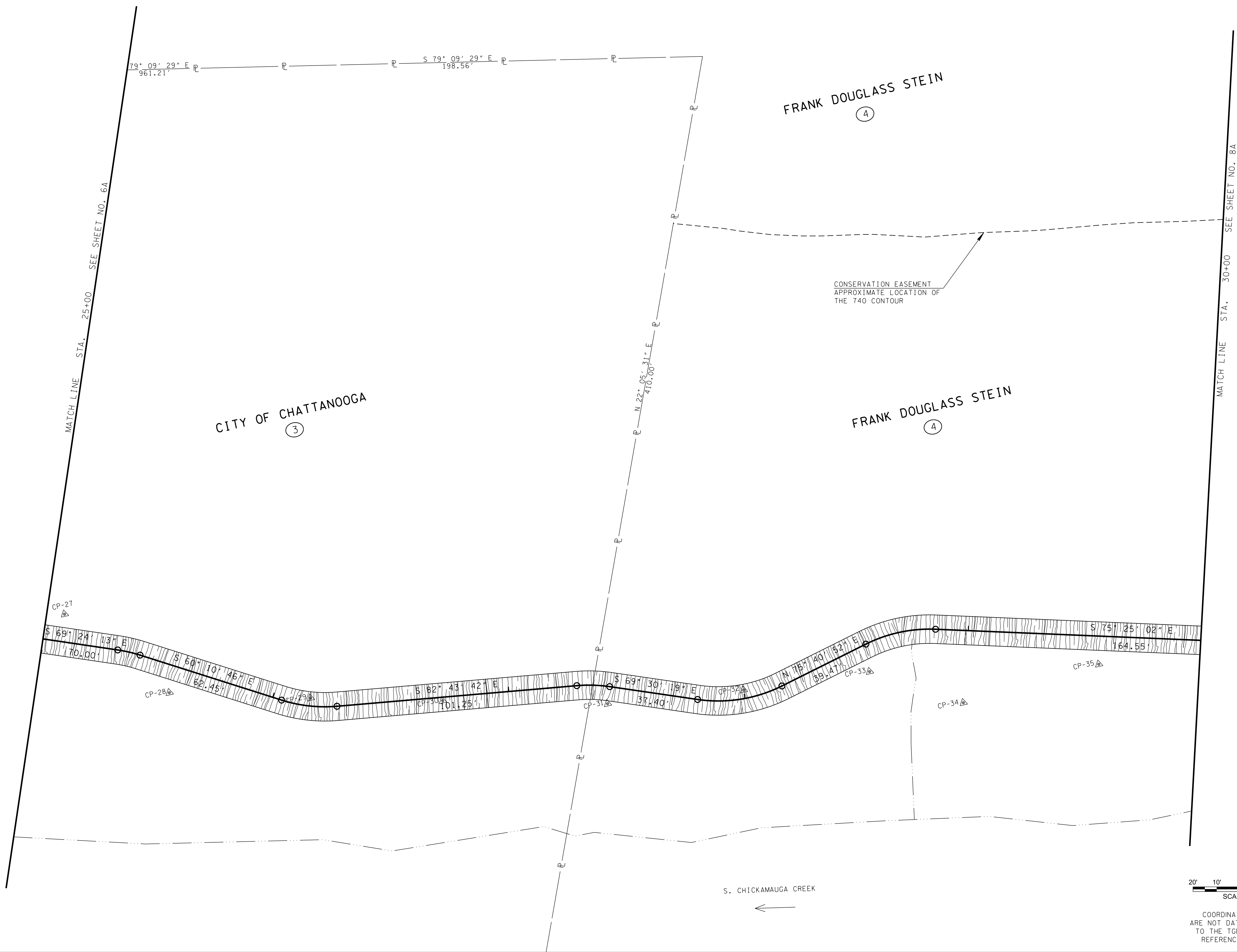
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PROPOSED LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

7A
FILE NO. 35531-10

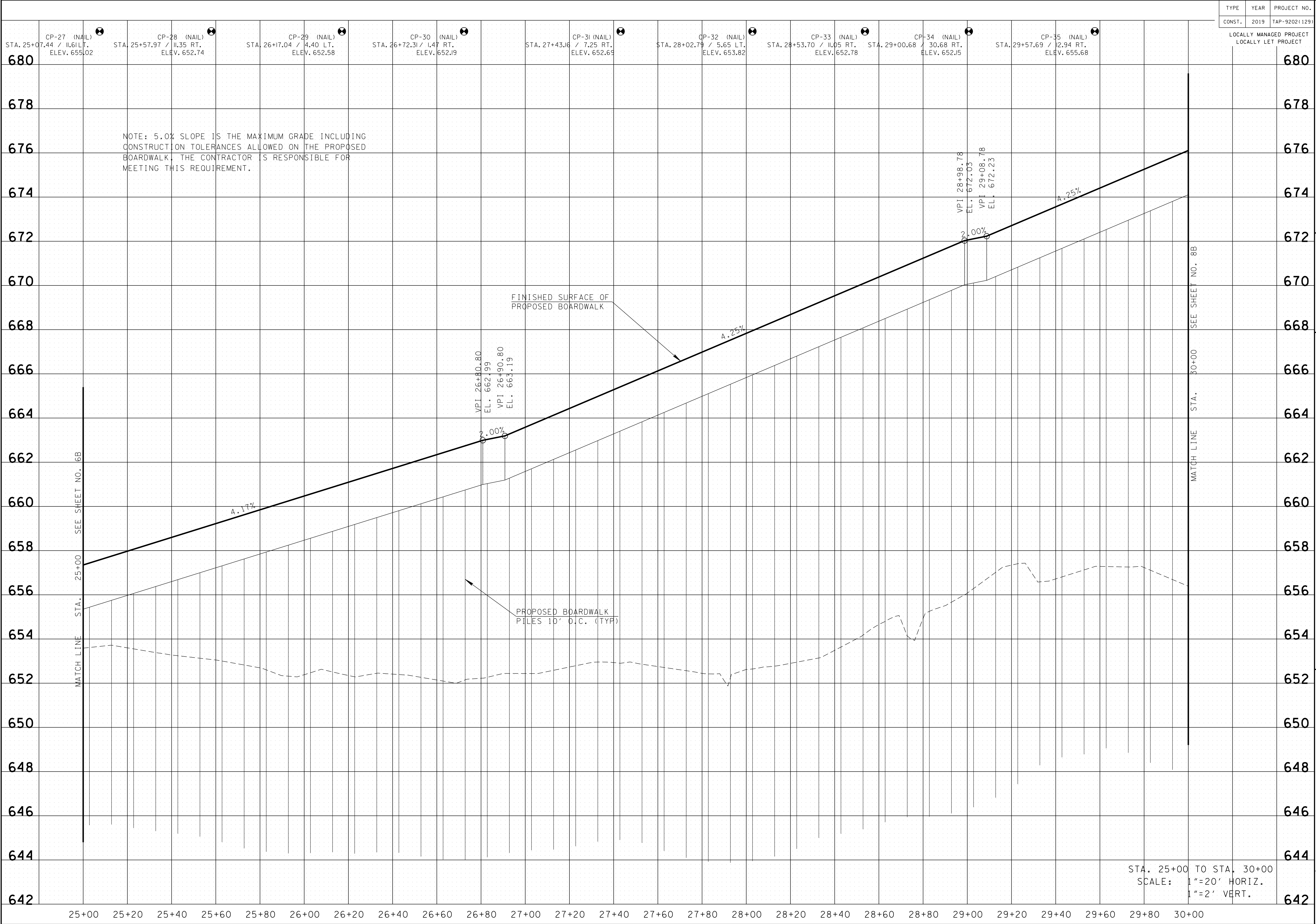


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TYPE	YEAR	PROJECT NO.
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PROPOSED PROFILE
 TENNESSEE DEPARTMENT OF TRANSPORTATION
 SOUTH CHICKAMAUGA GREENWAY
 YOUNGSTOWN ROAD CONNECTOR
 HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

7B
 FILE NO. 35531-10

\$DATE\$
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 \$TBL\$

CONTROL DATA						
POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
36	268,818.25	2,202,873.62	657.59	30+12.07	0.29 RT.	NAIL
37	268,811.51	2,202,929.59	659.07	30+67.84	7.92 LT.	NAIL
38	268,808.28	2,202,988.07	661.05	31+31.93	12.52 RT.	NAIL
39	268,803.15	2,203,031.56	660.20	31+75.49	17.05 RT.	NAIL
40	268,809.52	2,203,082.67	666.66	32+20.12	19.11 RT.	NAIL
41	268,825.93	2,203,124.60	675.78	32+65.10	21.15 RT.	NAIL
42	268,844.86	2,203,189.17	691.19	33+43.03	2.24 RT.	NAIL
43	268,870.01	2,203,263.64	698.59	34+24.58	25.04 LT.	NAIL

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

BWSC
BARGE
WAGGONER
&
SUMNER &
CANNON, INC.
110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477



PRESENT LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

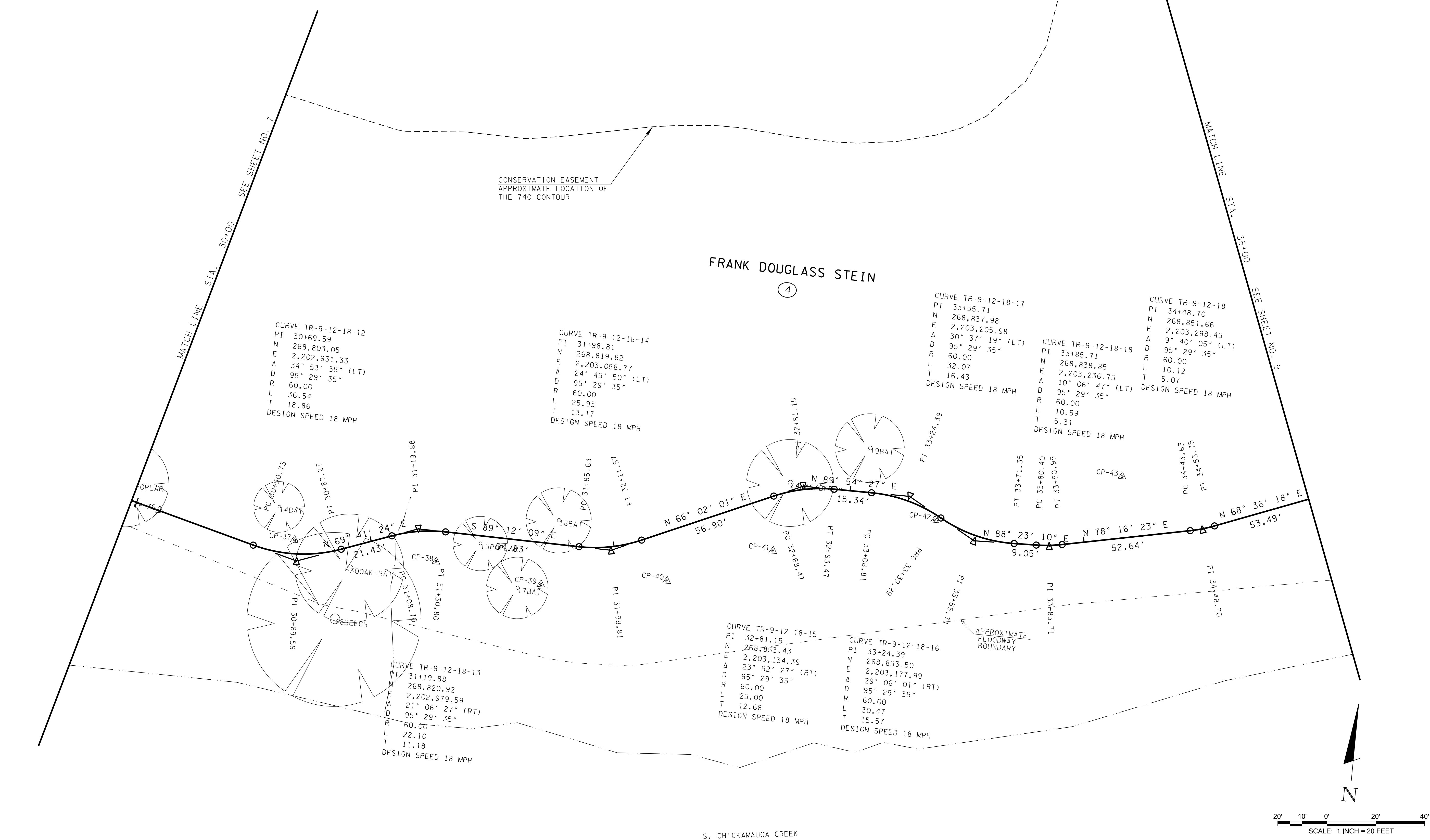
REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

8
FILE NO. 35531-10

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

\$DGN\$

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REFERENCED TO THE NAVD 1988.

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

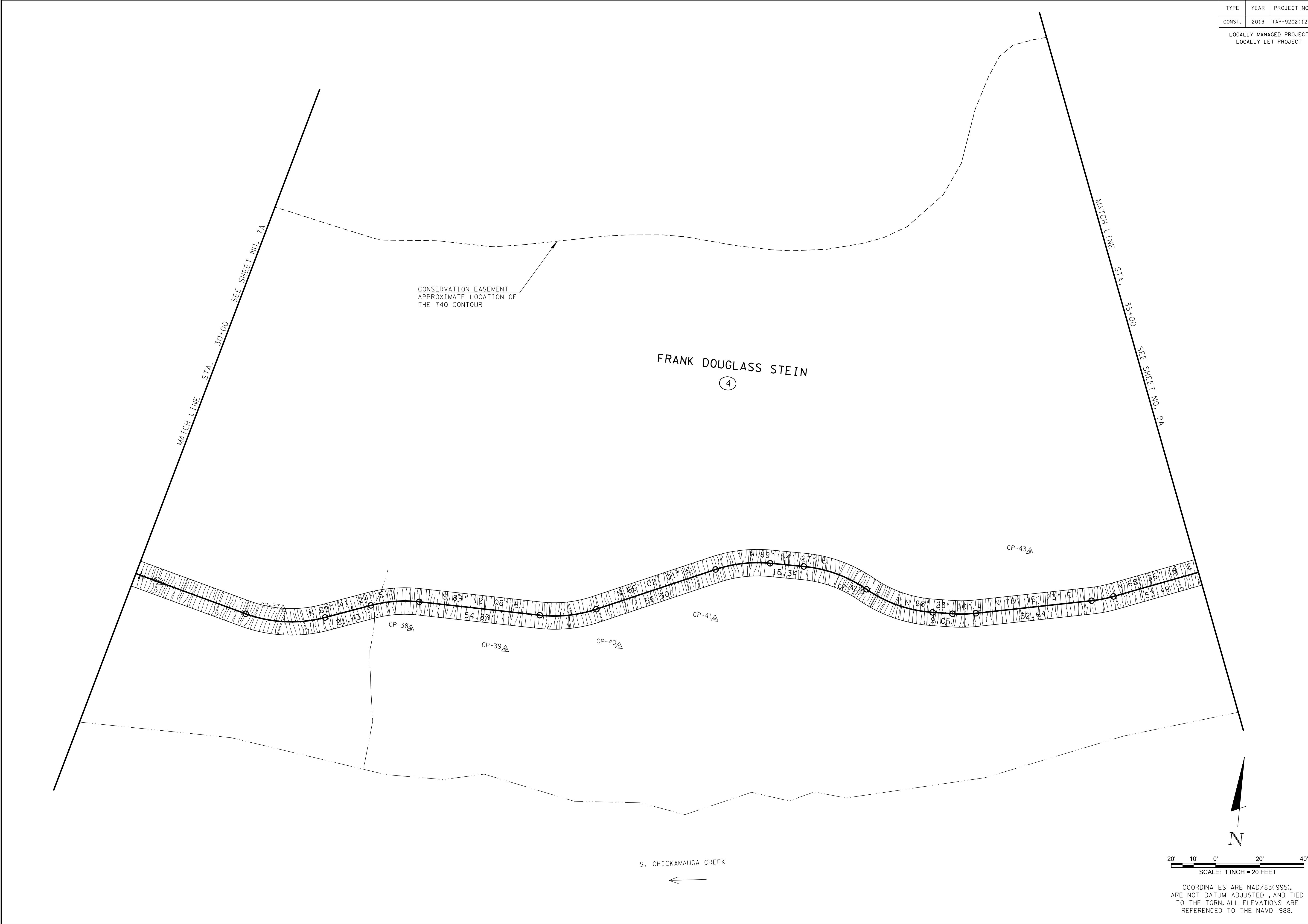
BWSC
BARGE
WAGGONER &
SUMNER &
CANNON, INC.
110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477



PROPOSED LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

8A
FILE NO. 35531-10



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TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

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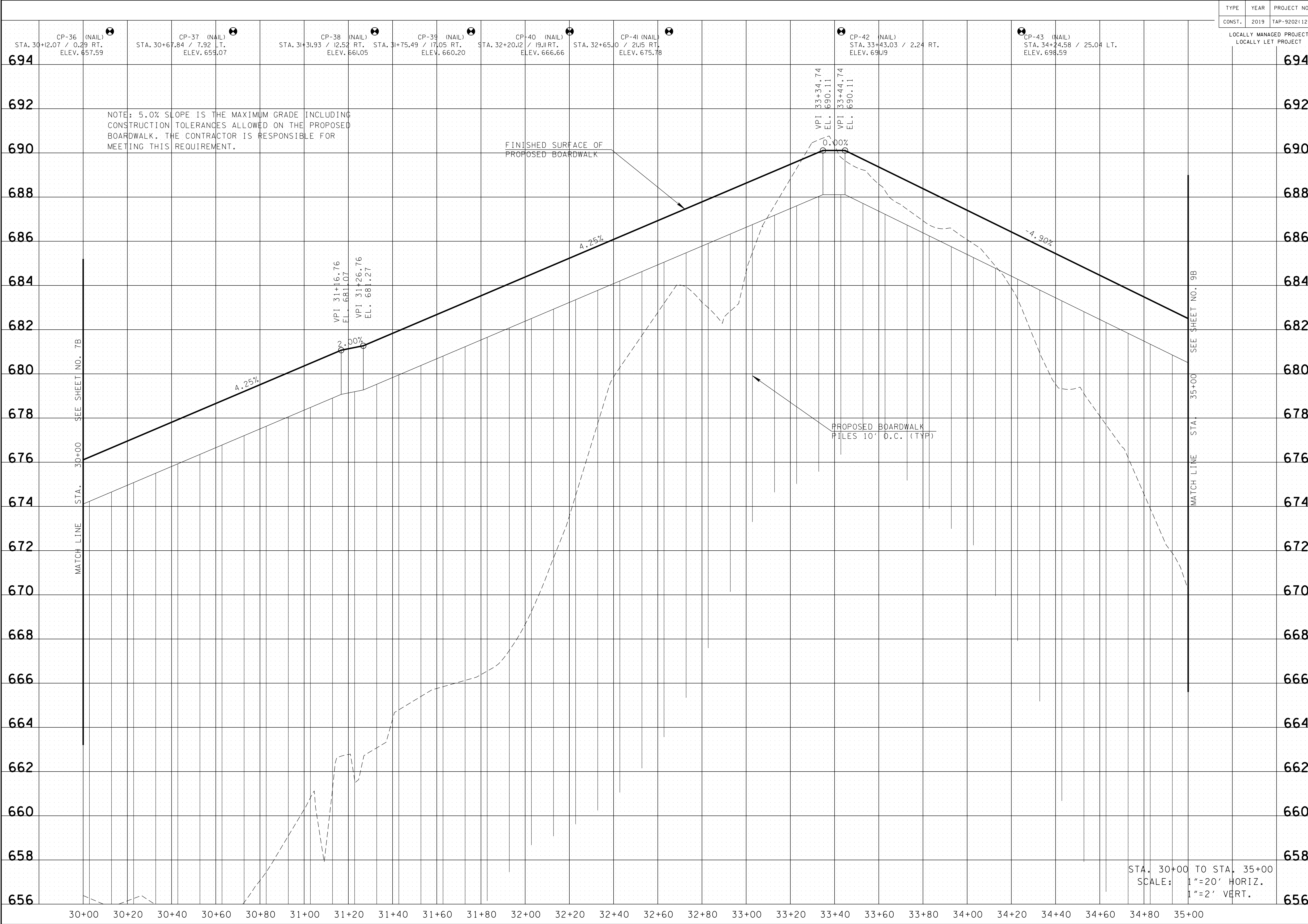


PROPOSED PROFILE
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
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\$DGN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

CONTROL DATA						
POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
44	268,873.01	2,203,391.00	666.36	35+51.42	6.71 RT.	NAIL
45	268,883.89	2,203,525.50	667.87	36+88.01	5.94 LT.	NAIL
46	268,830.66	2,203,581.46	652.41	37+26.52	51.25 RT.	NAIL

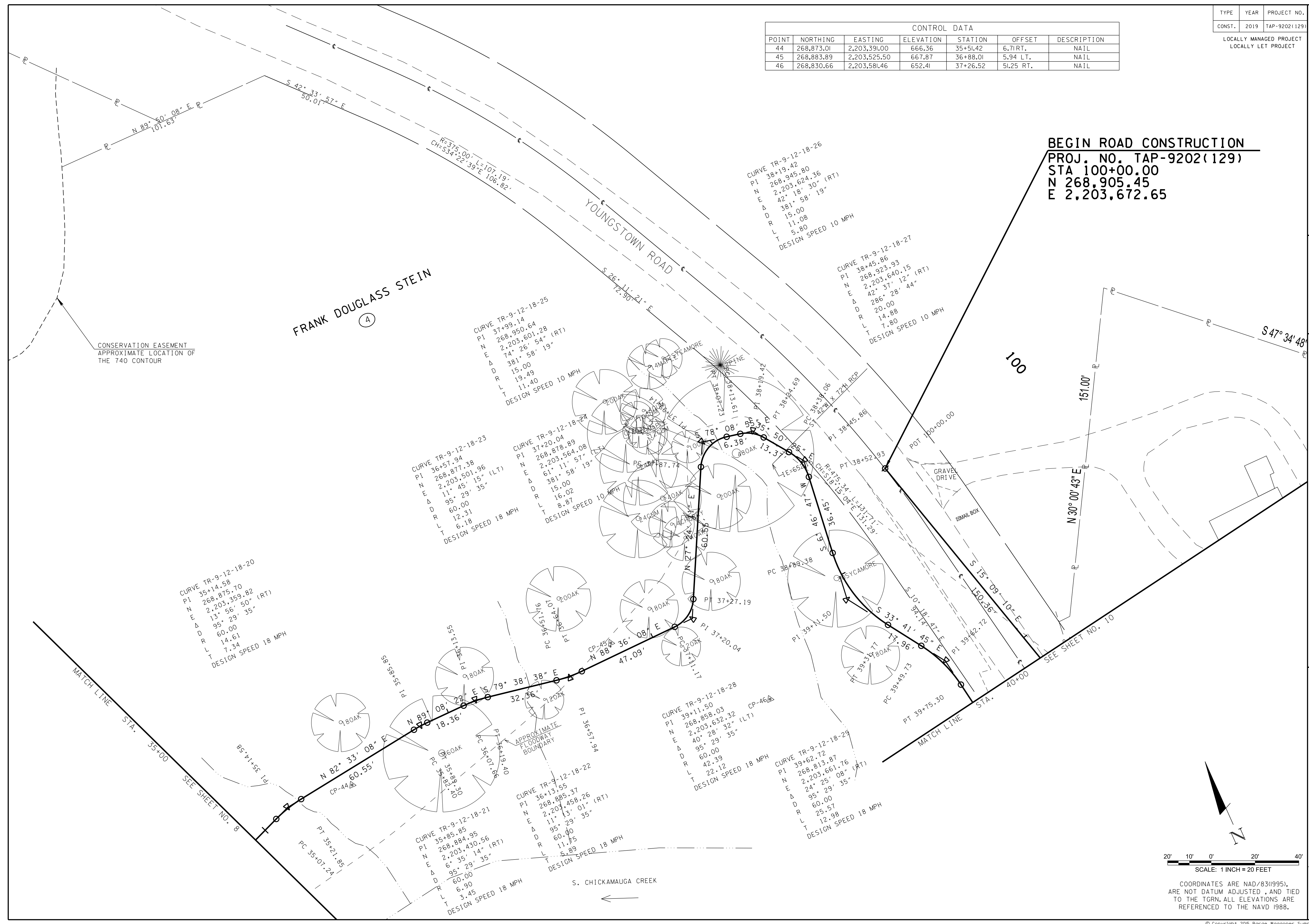
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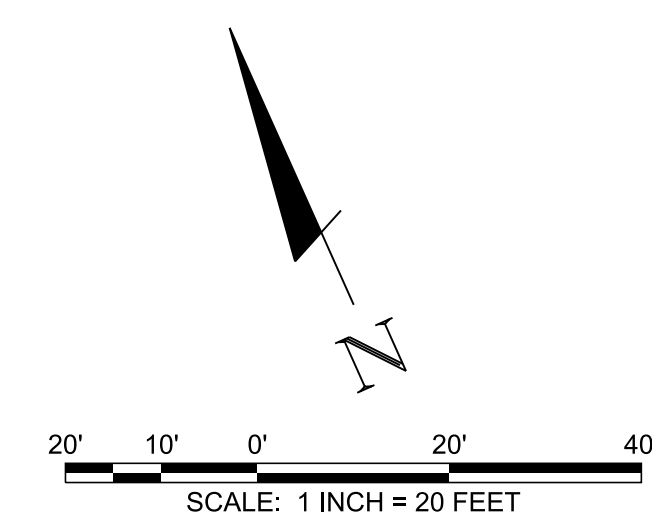
PRESENT LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

9
FILE NO. 35531-10



BEGIN ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 100+00.00
N 268,905.45
E 2,203,672.65



COORDINATES ARE NAD/83(1995), ARE NOT DATUM ADJUSTED, AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

\$DCN\$

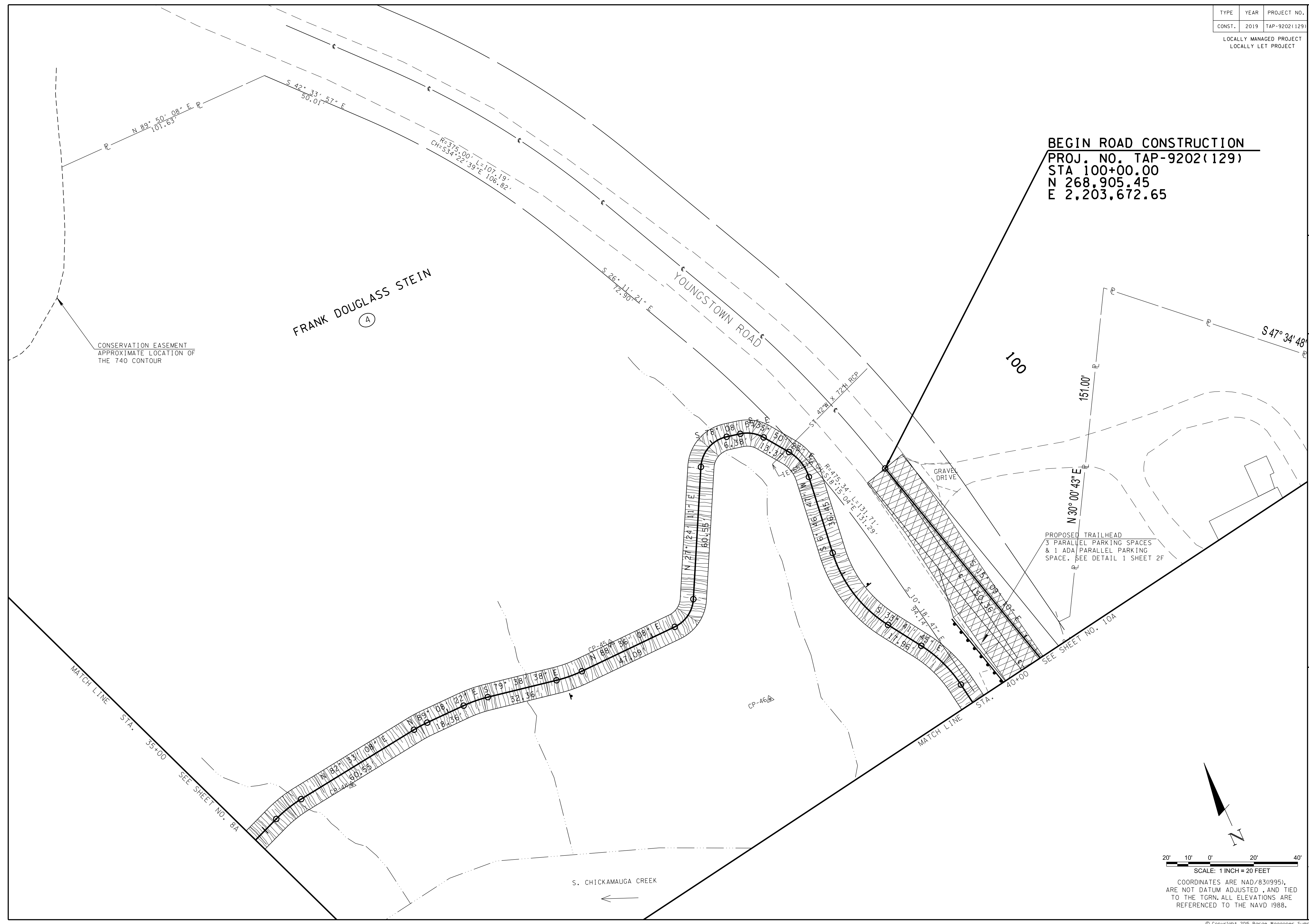
TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

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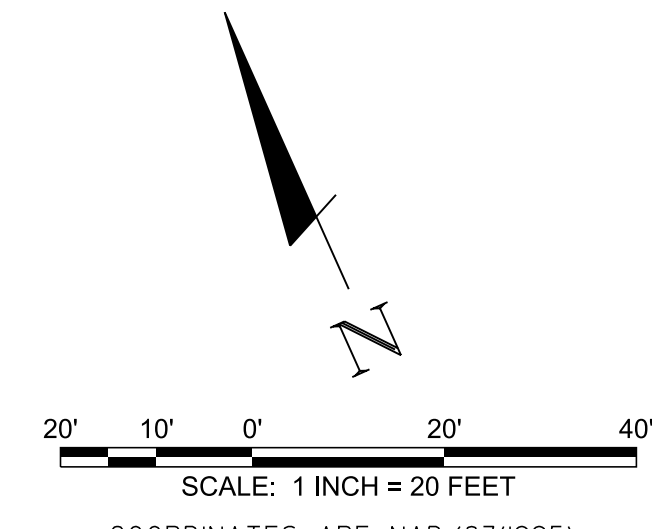


BEGIN ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 100+00.00
N 268,905.45
E 2,203,672.65



PROPOSED LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DATE	CHK.	DR.	DESCRIPTION
0	06-04-2019	BCN	AGH	ISSUED FOR BID



COORDINATES ARE NAD(83)1995,
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\$TBL\$

\$DGN\$

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CONST.	2019	TAP-9202(129)

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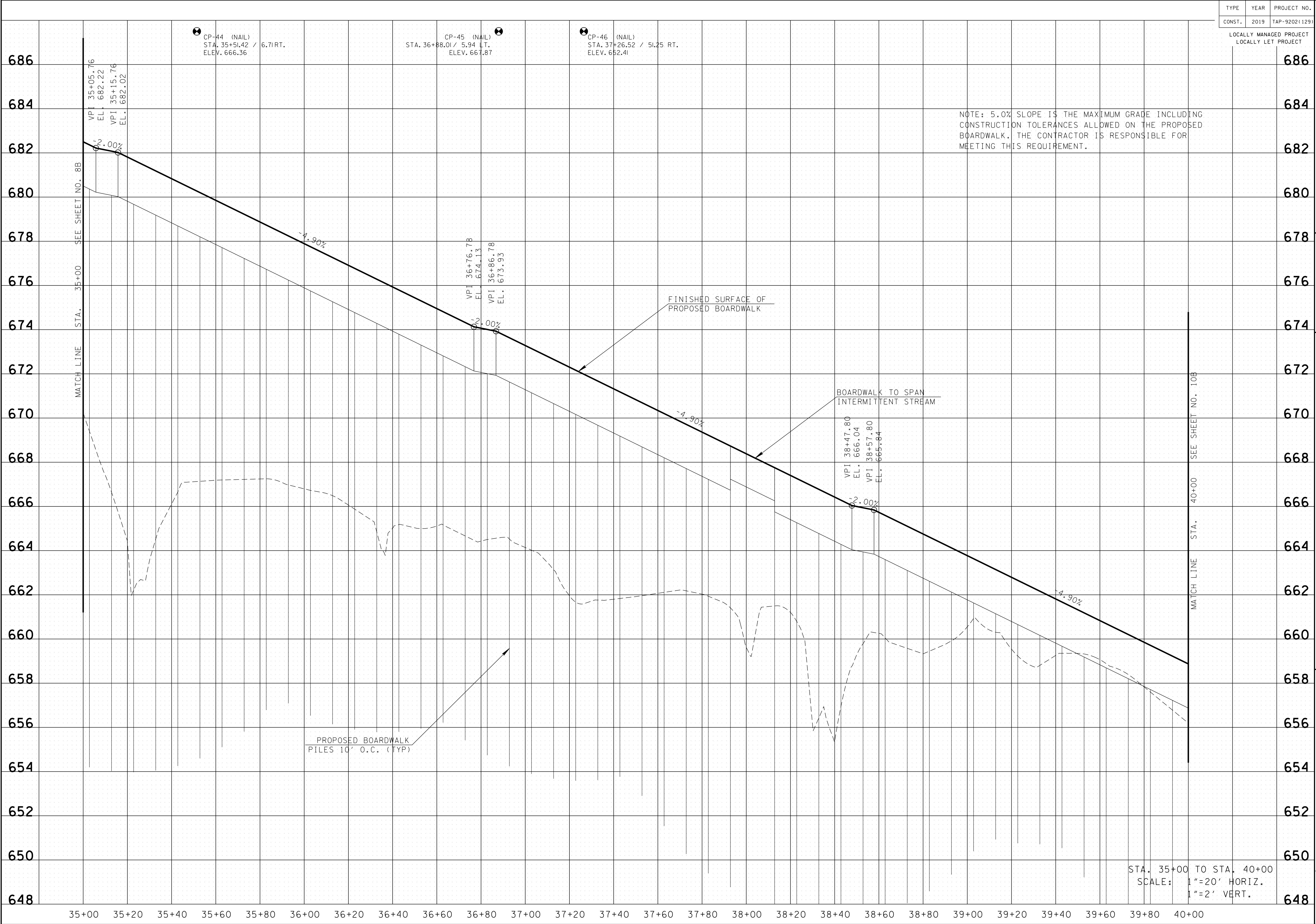


PROPOSED PROFILE
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

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FILE NO. 35531-10



\$DATE\$
\$TIME\$
\$INSTR\$
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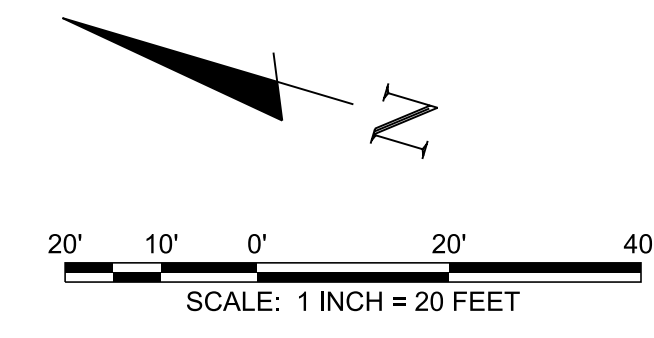
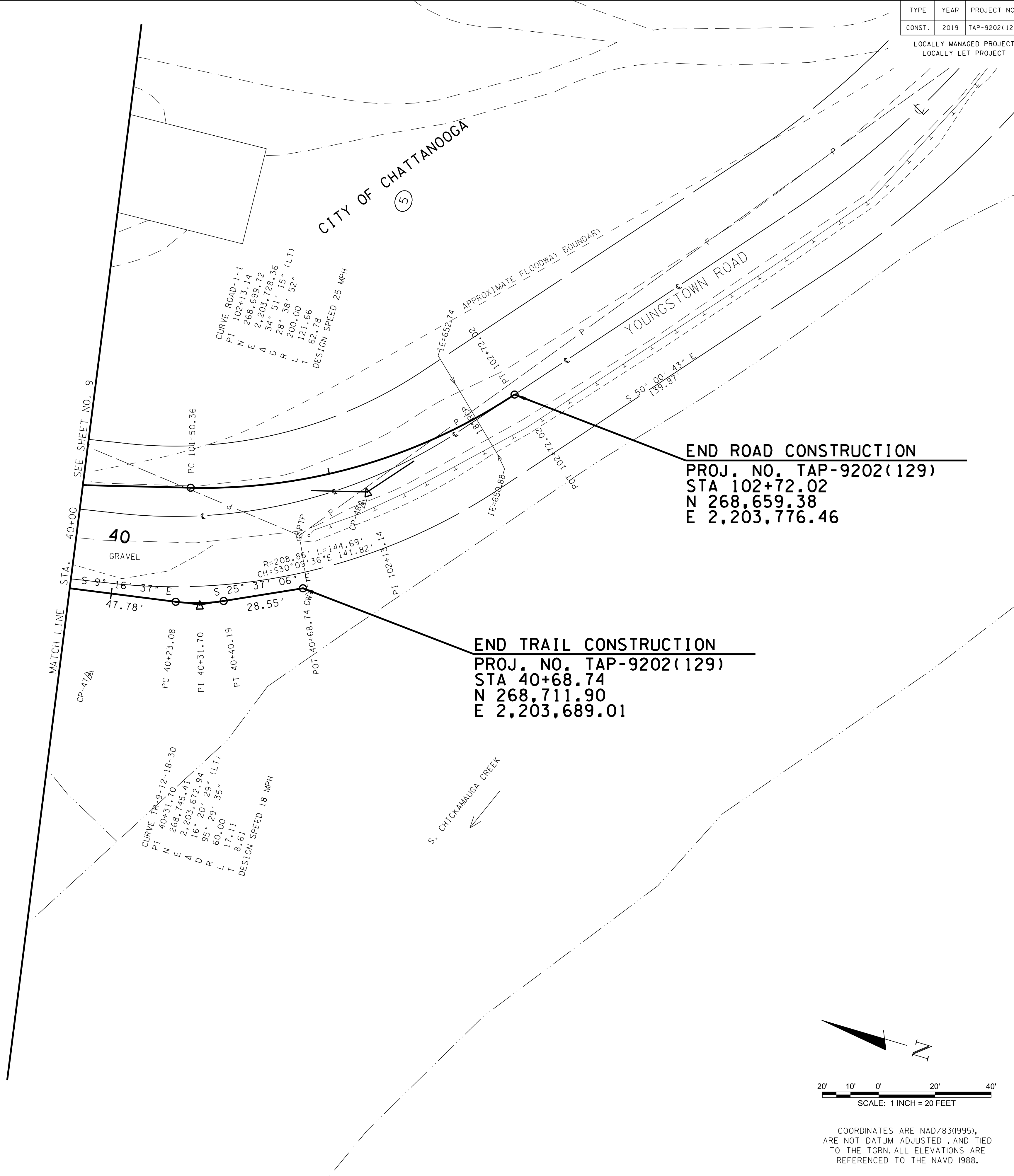
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CONTROL DATA						
POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
47	268,775.91	2,203,638.01	651.61	40+10.85	29.56 RT.	NAIL
48	268,700.06	2,203,724.01	657.07	41+17.43	15.20 LT.	NAIL

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

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PRESENT LAYOUT

TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

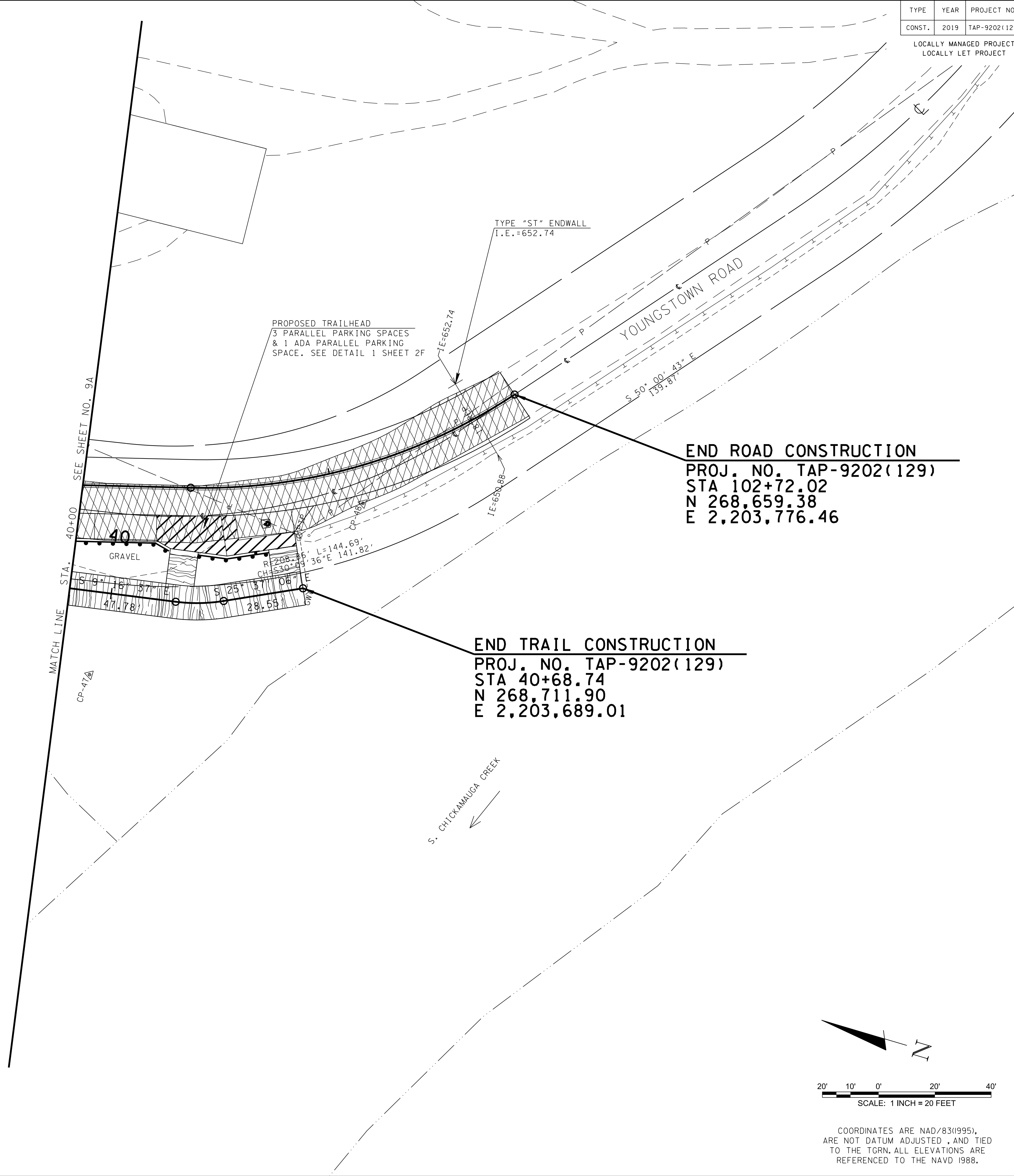
10
FILE NO. 35531-10

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

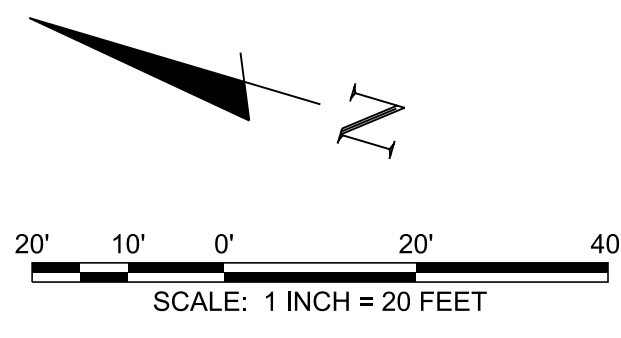
LOCALLY MANAGED PROJECT
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PROPOSED LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
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10A
FILE NO. 35531-10

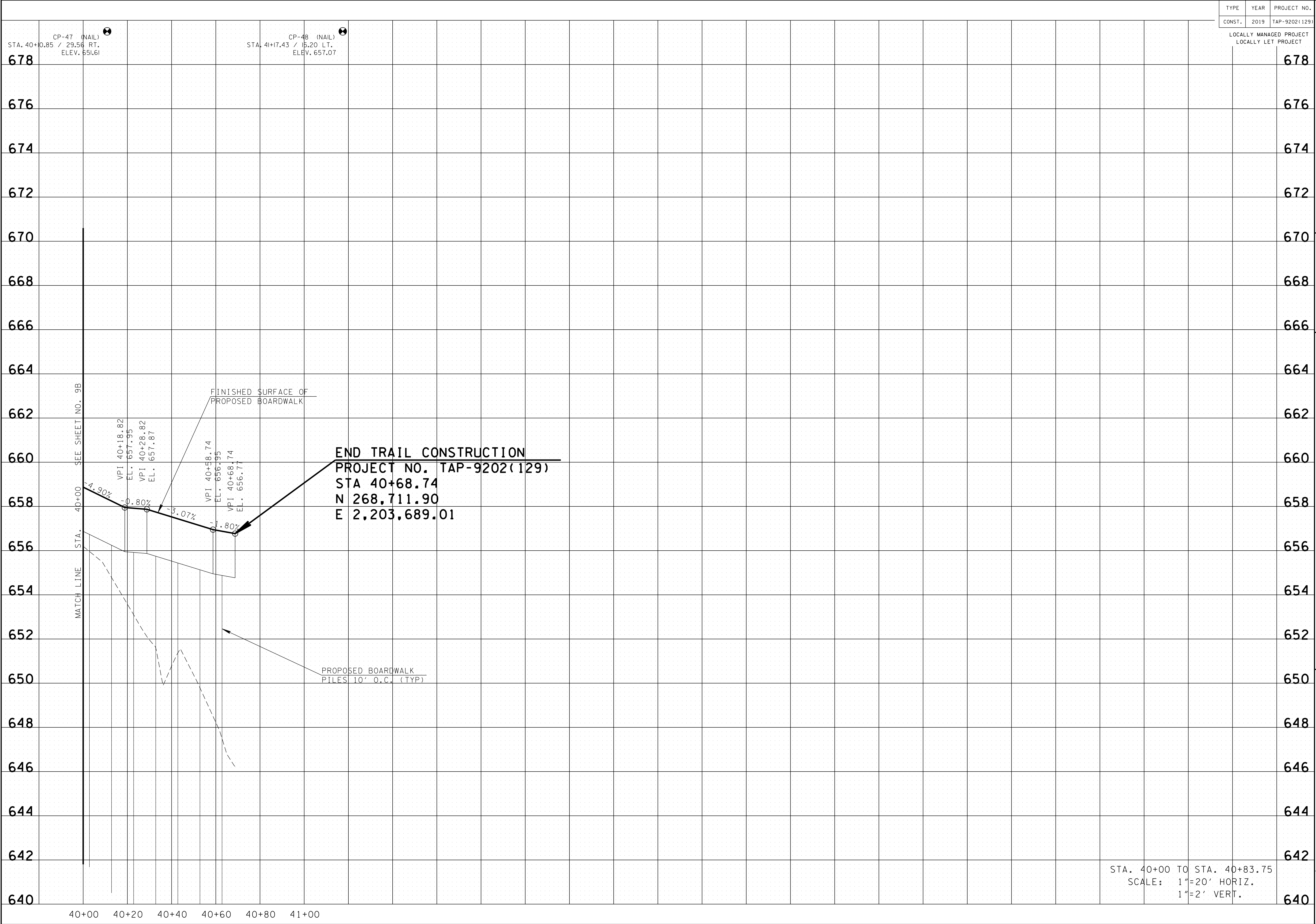
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\$USER\$
\$TBL\$

\$DCN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

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PROPOSED PROFILE
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

10B
FILE NO. 35531-10

STA. 40+00 TO STA. 40+83.75
SCALE: 1"=20' HORIZ.
1"=2' VERT.

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

\$DCN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

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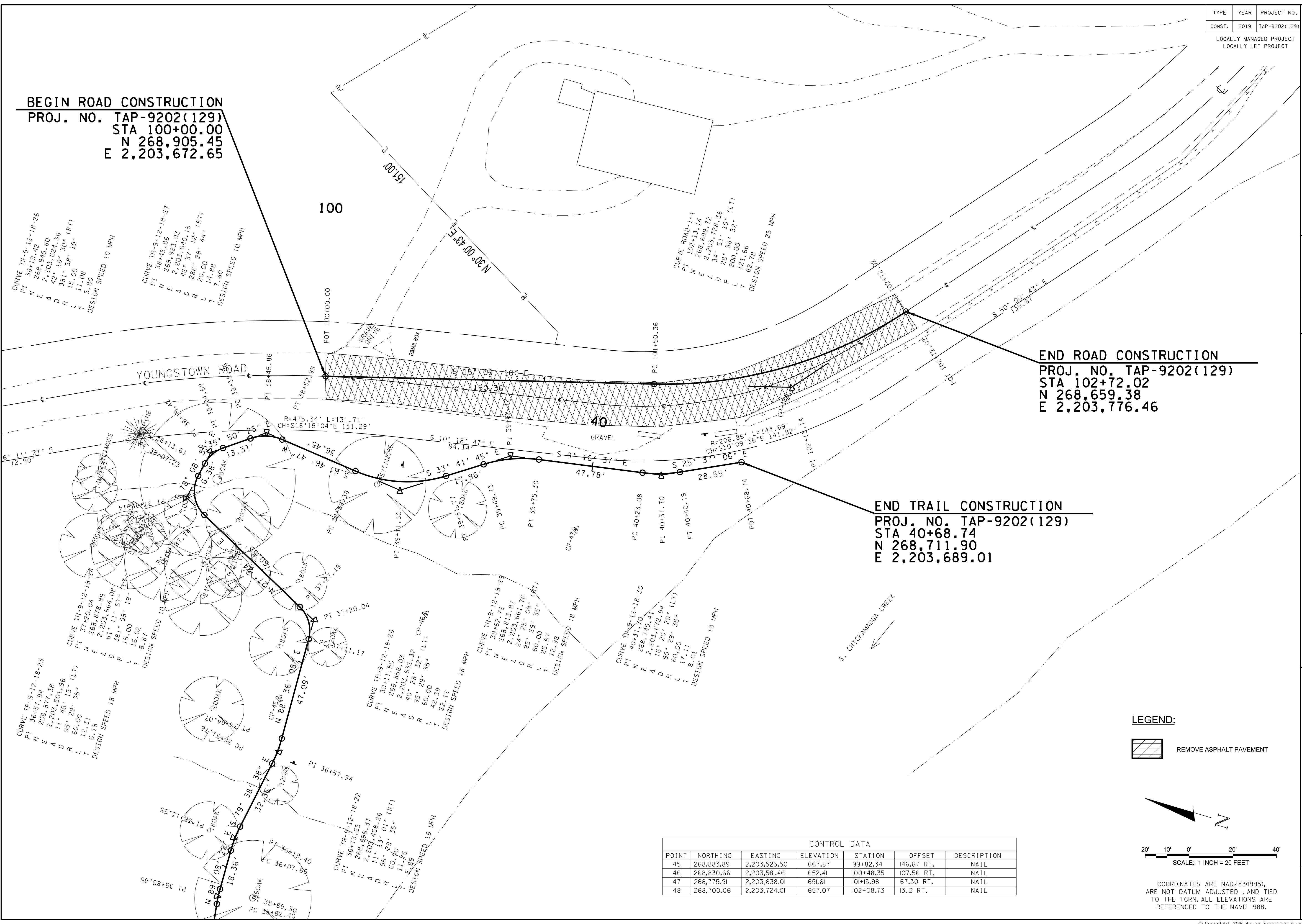


BEGIN ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 100+00.00
N 268,905.45
E 2,203,672.65

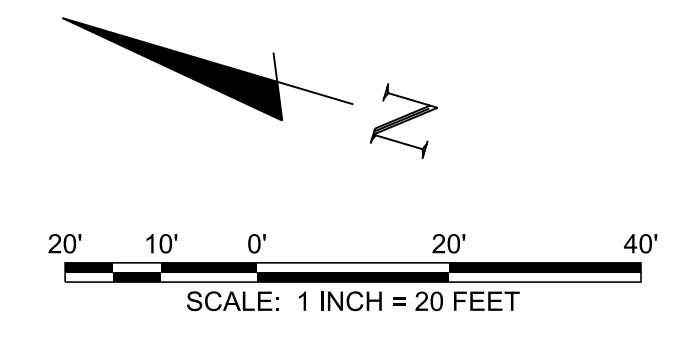
END ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 102+72.02
N 268,659.38
E 2,203,776.46

END TRAIL CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 40+68.74
N 268,711.90
E 2,203,689.01

PRESENT LAYOUT
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY



LEGEND:
[Hatched Box] REMOVE ASPHALT PAVEMENT



CONTROL DATA						
POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
45	268,883.89	2,203,525.50	667.87	99+82.34	146.67 RT.	NAIL
46	268,830.66	2,203,581.46	652.41	100+48.35	107.56 RT.	NAIL
47	268,775.91	2,203,638.01	651.61	101+15.98	67.30 RT.	NAIL
48	268,700.06	2,203,724.01	657.07	102+08.73	13.12 RT.	NAIL

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

\$DCN\$

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CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

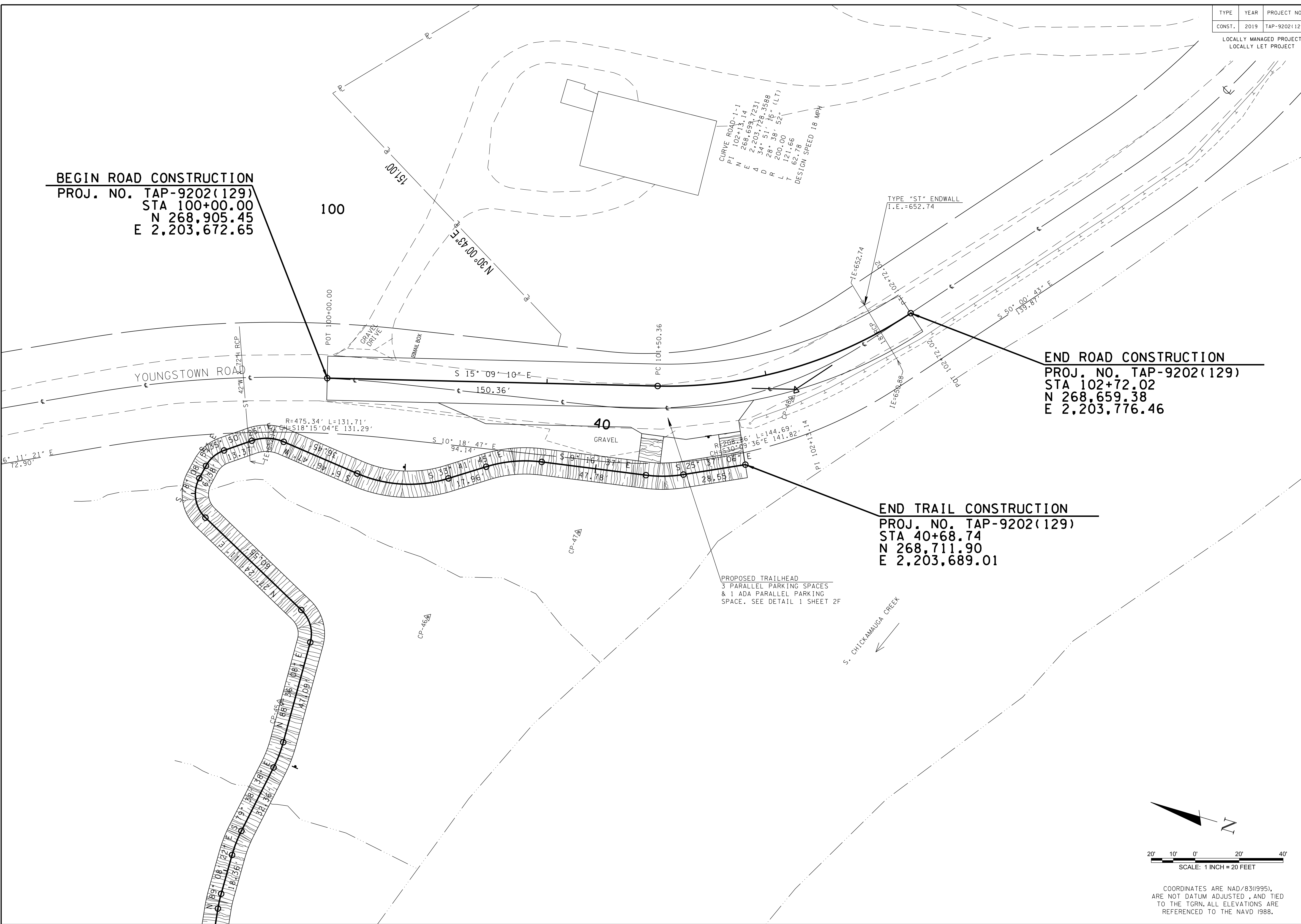
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PHONE (423) 756-3025 FAX (423) 756-8477



BEGIN ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 100+00.00
N 268,905.45
E 2,203,672.65

END ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 102+72.02
N 268,659.38
E 2,203,776.46

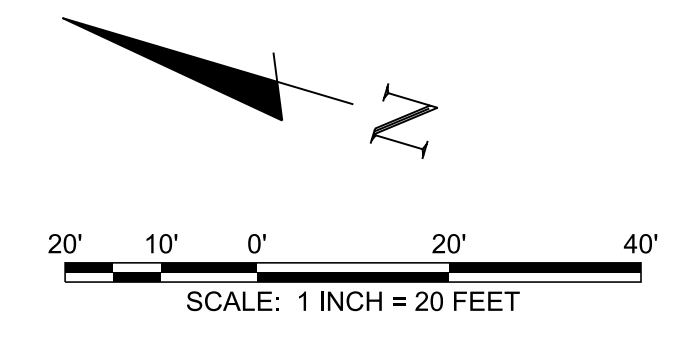
END TRAIL CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 40+68.74
N 268,711.90
E 2,203,689.01



PROPOSED LAYOUT

TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID



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11A

FILE NO. 35531-10

\$DATE\$
\$TIME\$
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\$DCN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

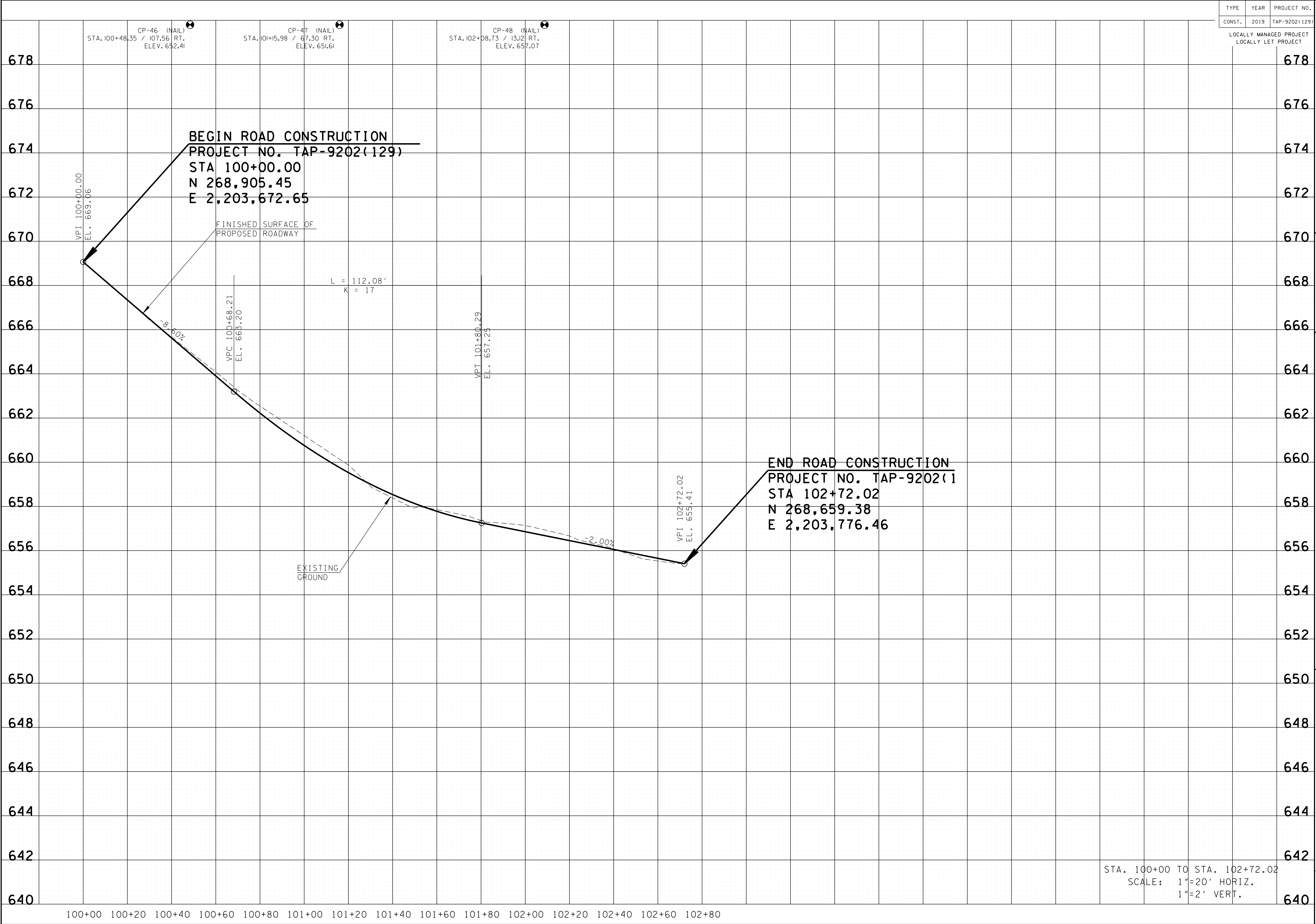
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PROPOSED PROFILE
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
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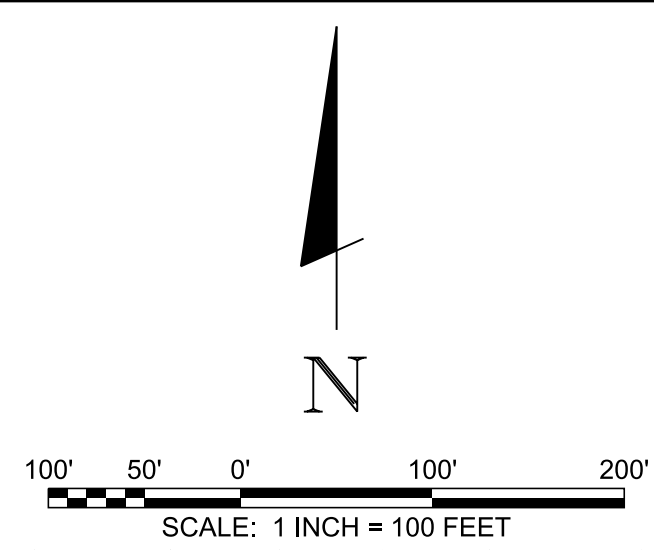
11B
FILE NO. 35531-10



STA. 100+00 TO STA. 102+72.02
SCALE: 1"=20' HORIZ.
1"=2' VERT.

\$DATE\$
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\$USER\$
\$TBL\$

\$DGN\$

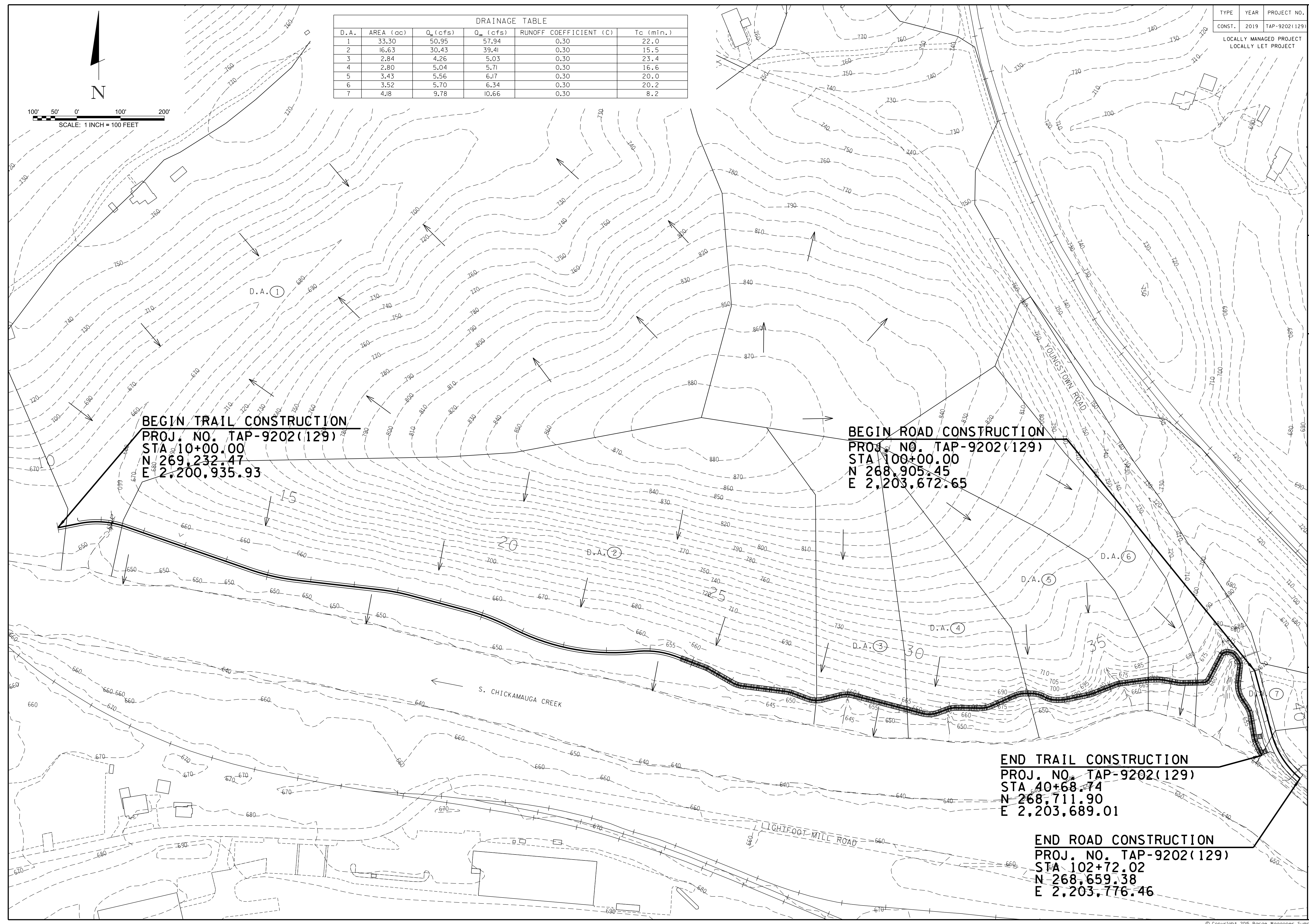


DRAINAGE TABLE					
D.A.	AREA (ac)	Q _p (cfs)	Q _m (cfs)	RUNOFF COEFFICIENT (C)	T _c (min.)
1	33.30	50.95	57.94	0.30	22.0
2	16.63	30.43	39.41	0.30	15.5
3	2.84	4.26	5.03	0.30	23.4
4	2.80	5.04	5.71	0.30	16.6
5	3.43	5.56	6.17	0.30	20.0
6	3.52	5.70	6.34	0.30	20.2
7	4.18	9.78	10.66	0.30	8.2

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

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PHONE (423) 756-3025 FAX (423) 756-8477



BEGIN TRAIL CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 10+00.00
N 269,232.47
E 2,200,935.93

BEGIN ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 100+00.00
N 268,905.45
E 2,203,672.65

END TRAIL CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 40+68.74
N 268,711.90
E 2,203,689.01

END ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 102+72.02
N 268,659.38
E 2,203,776.46

DRAINAGE MAP

TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

12

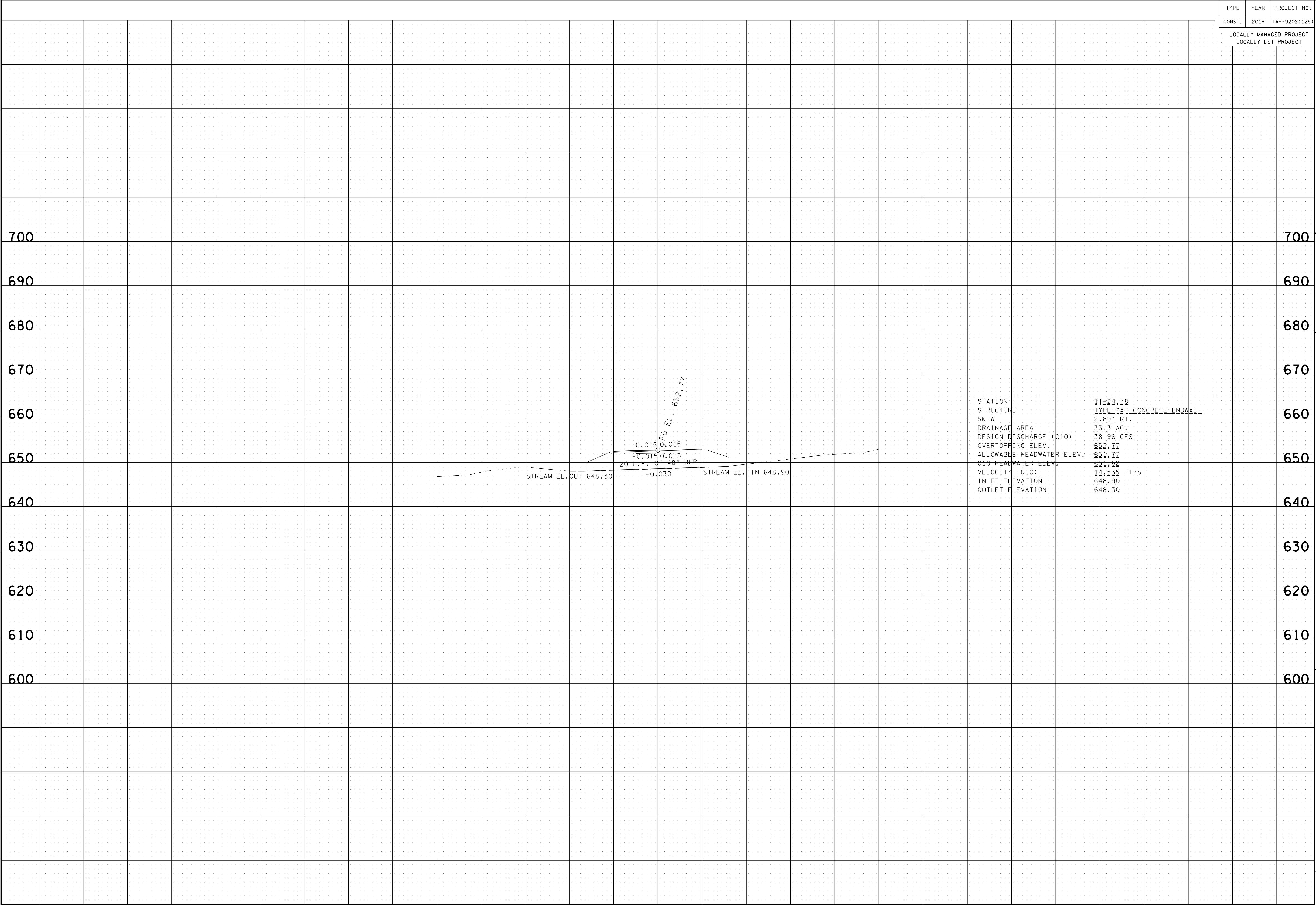
FILE NO. 35531-10

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\$TBL\$

\$DCN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)
LOCALLY MANAGED PROJECT		
LOCALLY LET PROJECT		

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STATION	11+24.78
STRUCTURE	TYPE "A" CONCRETE ENDWALL
SKEW	21.89° RT.
DRAINAGE AREA	33.3 AC.
DESIGN DISCHARGE (Q10)	38.96 CFS
OVERTOPPING ELEV.	652.77
ALLOWABLE HEADWATER ELEV.	651.77
O10 HEADWATER ELEV.	651.82
VELOCITY (Q10)	14.535 FT/S
INLET ELEVATION	648.90
OUTLET ELEVATION	648.30

CULVERT CROSS SECTION

TENNESSEE DEPARTMENT OF TRANSPORTATION
 SOUTH CHICKAMAUGA GREENWAY
 YOUNGSTOWN ROAD CONNECTOR
 HAMILTON COUNTY

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CONST.	2019	TAP-9202(129)

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EPSC NOTES
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION			
REV.	DR.	CHK.	DATE
0	AGH	BCN	06-04-2019

14
FILE NO. 35531-10

EPSC NOTES

STREAMS, WETLANDS & BUFFER ZONES

- (1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., PIER FOOTING, RIP-RAP PLACEMENT, CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS (EC-STR-31) AND TEMPORARY DIVERSION CULVERTS (EC STR-32) FOR SINGLE BARREL CULVERT CONSTRUCTION.

ENVIRONMENTAL

- (1) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)
LOCALLY MANAGED PROJECT LOCALLY LET PROJECT		

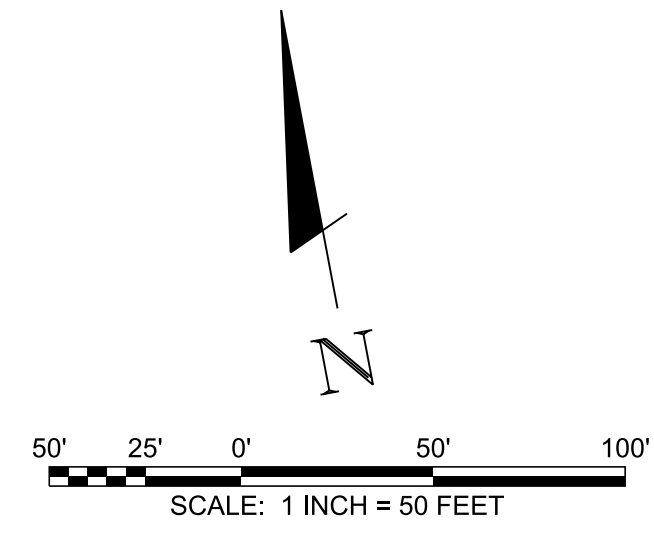
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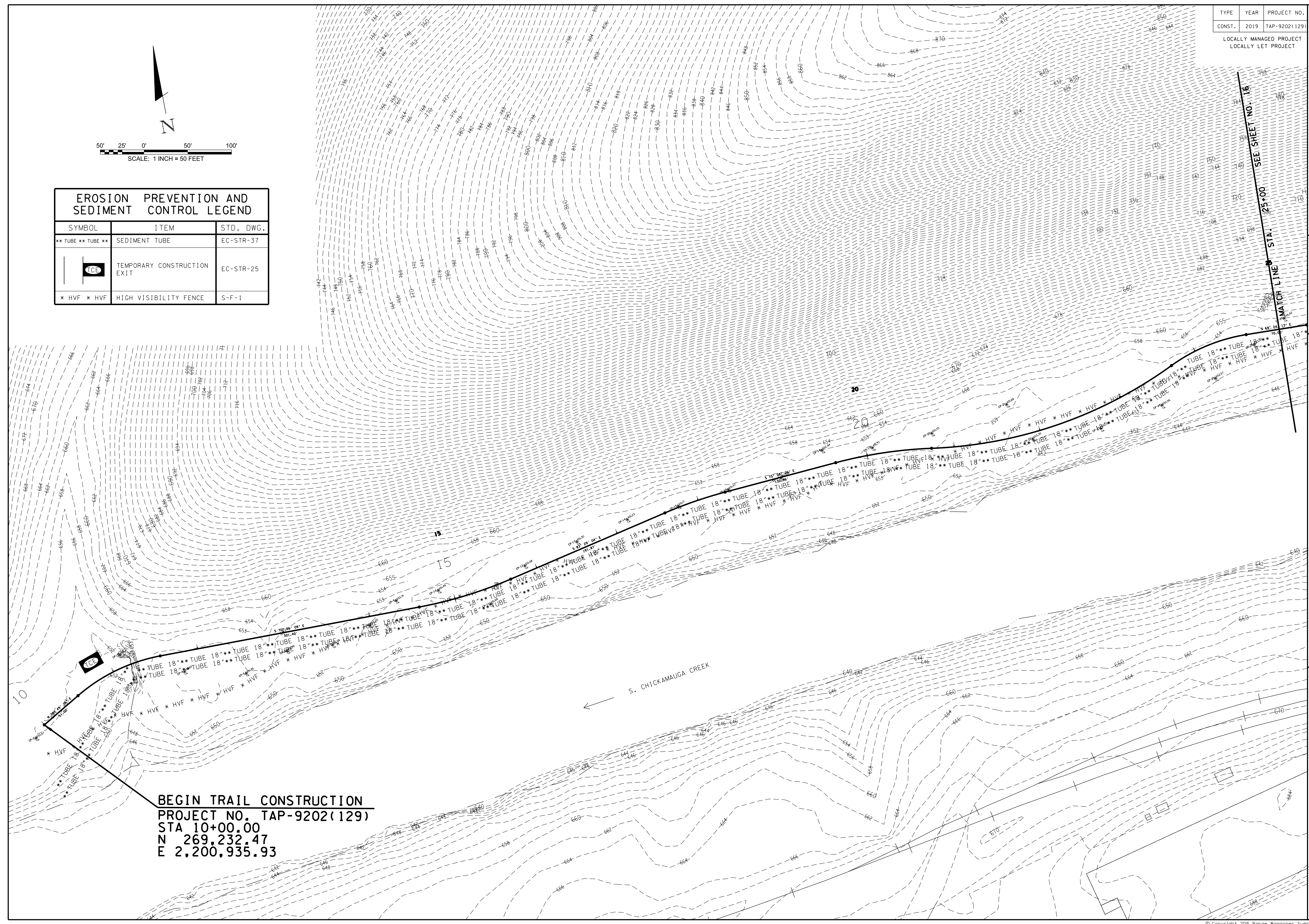
EPSC PLAN - STAGE 1
 TENNESSEE DEPARTMENT OF TRANSPORTATION
 SOUTH CHICKAMAUGA GREENWAY
 YOUNGSTOWN ROAD CONNECTOR
 HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

15
 FILE NO. 35531-10



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE **	SEDIMENT TUBE	EC-STR-37
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
* HVF *	HIGH VISIBILITY FENCE	S-F-1



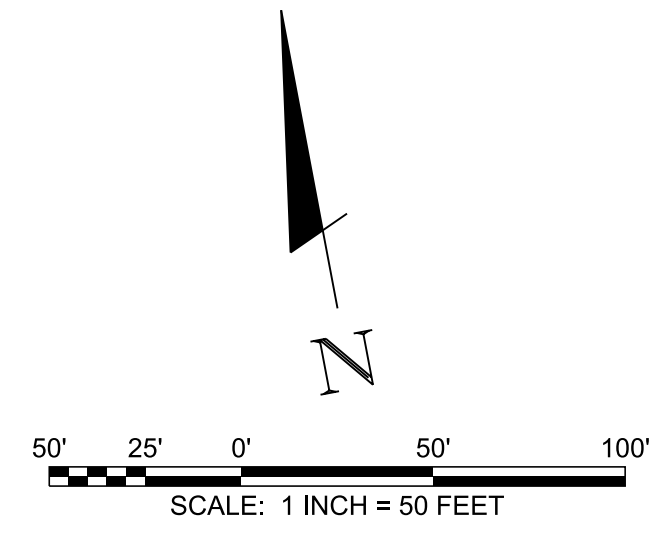
BEGIN TRAIL CONSTRUCTION
 PROJECT NO. TAP-9202(129)
 STA 10+00.00
 N 269,232.47
 E 2,200,935.93

\$DATE\$
 \$TIME\$
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 \$USER\$
 \$TBL\$

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EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
RP ED	PERMANENT RIPRAP ENERGY DISSIPATOR	EC-STR-21
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1



BEGIN TRAIL CONSTRUCTION
PROJECT NO. TAP-9202(129)
STA 10+00.00
N 269,232.47
E 2,200,935.93

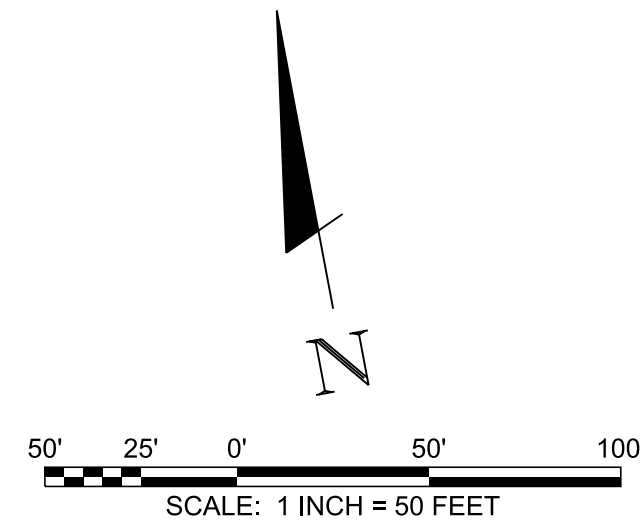
EPSC PLAN - STAGE 2
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

15A
FILE NO. 35531-10

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

\$DCN\$



TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

BWSC
BARGE
WAGGONER
&
SUMNER
&
CANNON, INC.
110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477

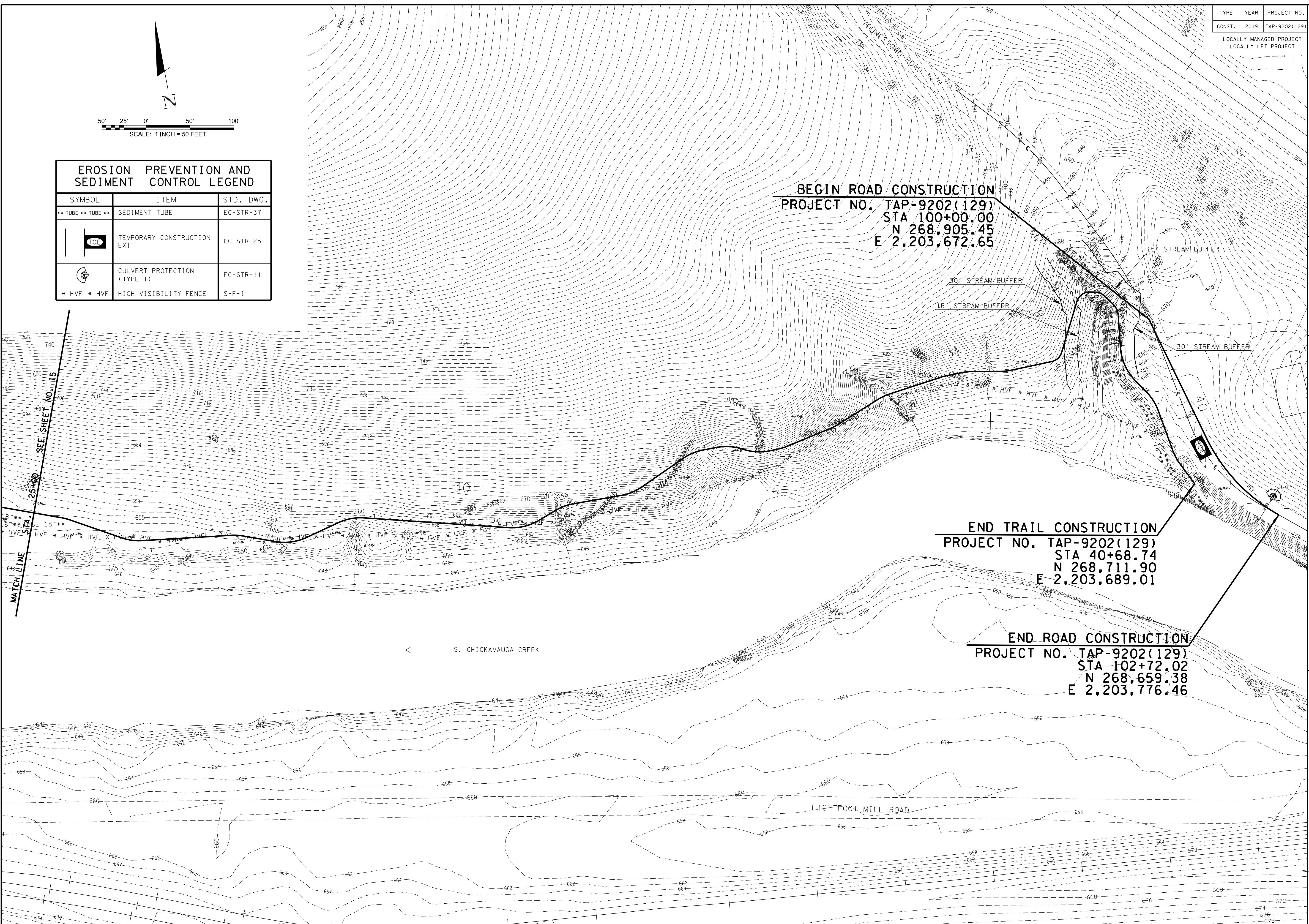


EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1

BEGIN ROAD CONSTRUCTION
PROJECT NO. TAP-9202(129)
STA 100+00.00
N 268,905.45
E 2,203,672.65

END TRAIL CONSTRUCTION
PROJECT NO. TAP-9202(129)
STA 40+68.74
N 268,711.90
E 2,203,689.01

END ROAD CONSTRUCTION
PROJECT NO. TAP-9202(129)
STA 102+72.02
N 268,659.38
E 2,203,776.46



ESPC PLAN - STAGE 1
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION		
REV.	DATE	DESCRIPTION
0	06-04-2019	ISSUED FOR BID

16
FILE NO. 35531-10

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\$TBL\$

\$DCN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

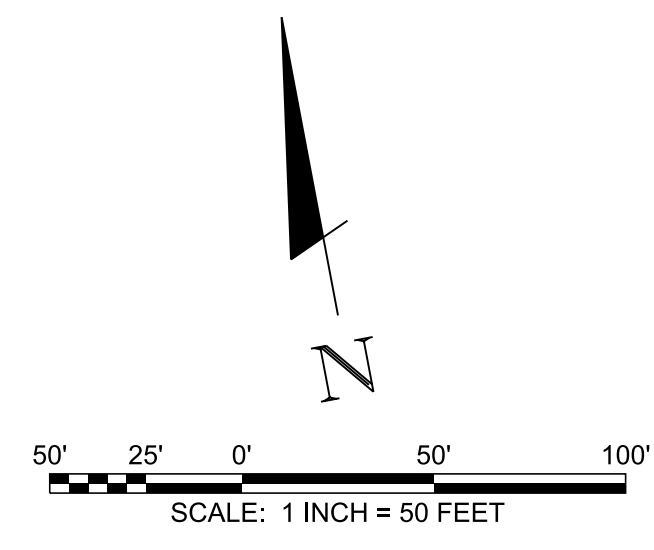
BWSC
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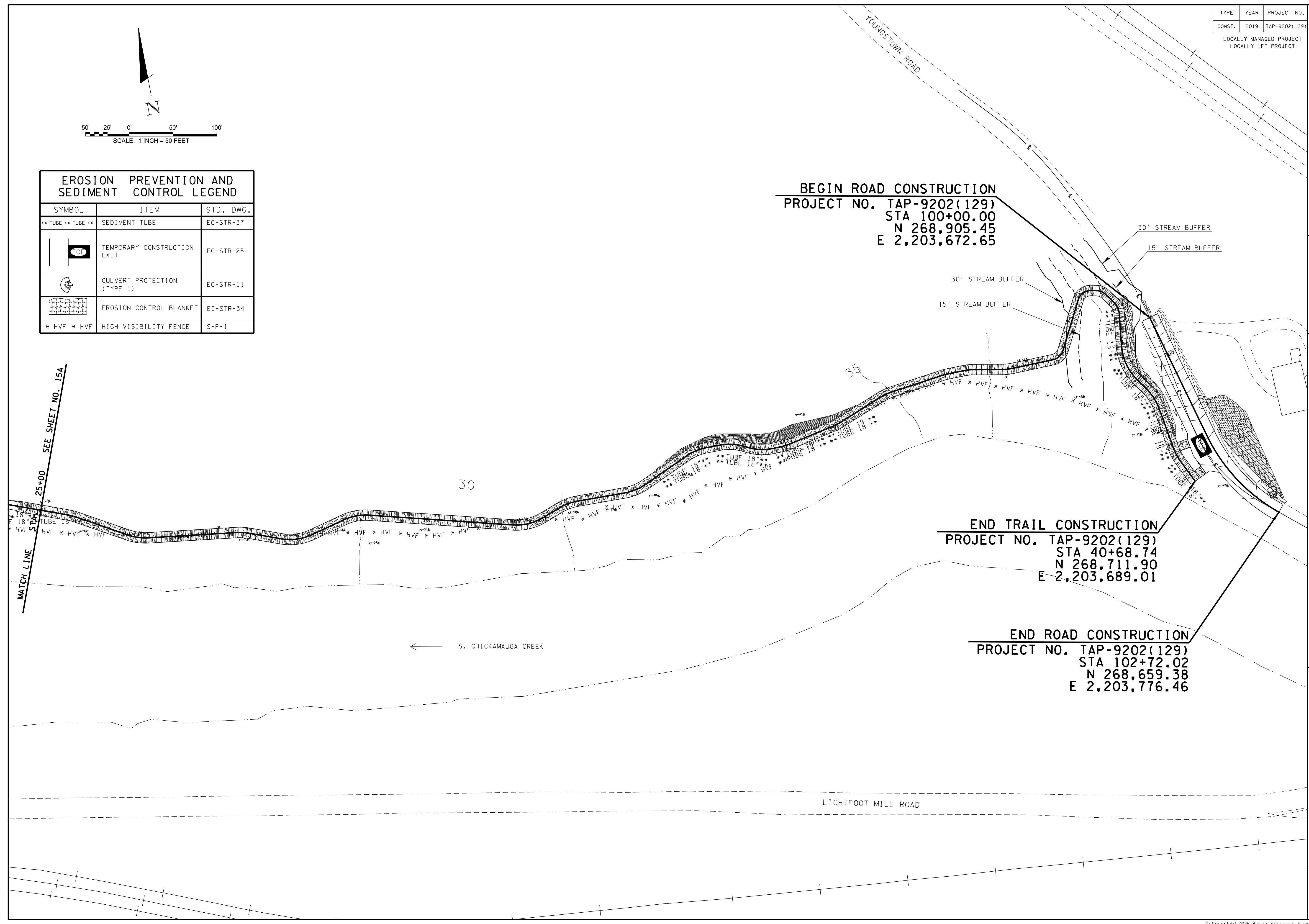
ESPC PLAN - STAGE 2
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
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16A
FILE NO. 35531-10



SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
G	CULVERT PROTECTION (TYPE 1)	EC-STR-11
[Grid Pattern]	EROSION CONTROL BLANKET	EC-STR-34
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1



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TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

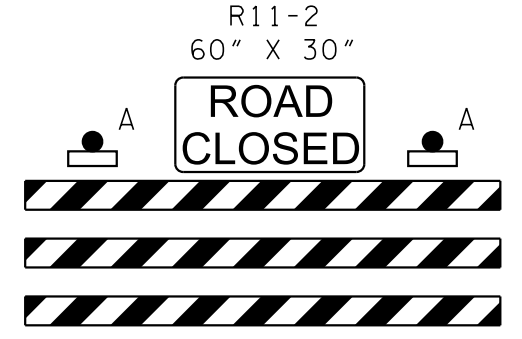
LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT


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TRAFFIC CONTROL - SPECIAL NOTES


1. THE TRAFFIC CONTROL PLAN IS TO SERVE AS A GUIDE ONLY. THIS PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. IF ADDITIONAL SIGNS ARE DEEMED NECESSARY BY THE ENGINEER, THEY SHALL BE FURNISHED AND INSTALLED AT THE BID PRICE FOR ITEM NO. 712-06 SIGNS (CONSTRUCTION) S.F..
3. NO LESS THAN SEVEN (7) DAYS PRIOR TEMPORARY CLOSURE OF YOUNGSTOWN ROAD THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND APPROXIMATE DURATION OF THE CONSTRUCTION; THE PARTIES INCLUDE, BUT ARE NOT LIMITED TO:
 - (1) LOCAL LAW ENFORCEMENT OFFICE
 - (2) LOCAL FIRE DEPARTMENT
 - (3) AMBULANCE SERVICE
 - (4) LOCAL DIRECTOR OF SCHOOL
 - (5) UNITED STATES POSTAL SERVICE
 - (6) LOCAL ROAD SUPERINTENDENT
 - (7) LOCAL MEDIA
4. THE CONTRACTOR SHALL COMPLETE THE WORK WITHIN THE DESIGNATED WORK ZONE (WHERE PRACTICAL) AS INDICATED ON THE PHASING PLAN AND PRIOR TO THE STARTING OF ANOTHER PHASE. THE CONTRACTOR SHALL HAVE ACCESS TO ALL WORK ZONES WITHIN THE PROJECT AREA AT ANY GIVEN TIME FOR THE PURPOSE OF STORING EQUIPMENT, STORING MATERIALS, STOCKPILING EARTHWORK, AND EXCAVATING MATERIAL AS NECESSARY FOR A SINGLE PHASE COMPLETION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES NEEDED IN EPSC AND TEMPORARY SIGNING WITHIN ANY SUB-PHASE OF THE PROJECT AND TO INCLUDE ADDITIONAL WORK ZONE(S) OR CONSTRUCTION STAGING AREAS NOT SHOWN ON THE PHASING PLANS.

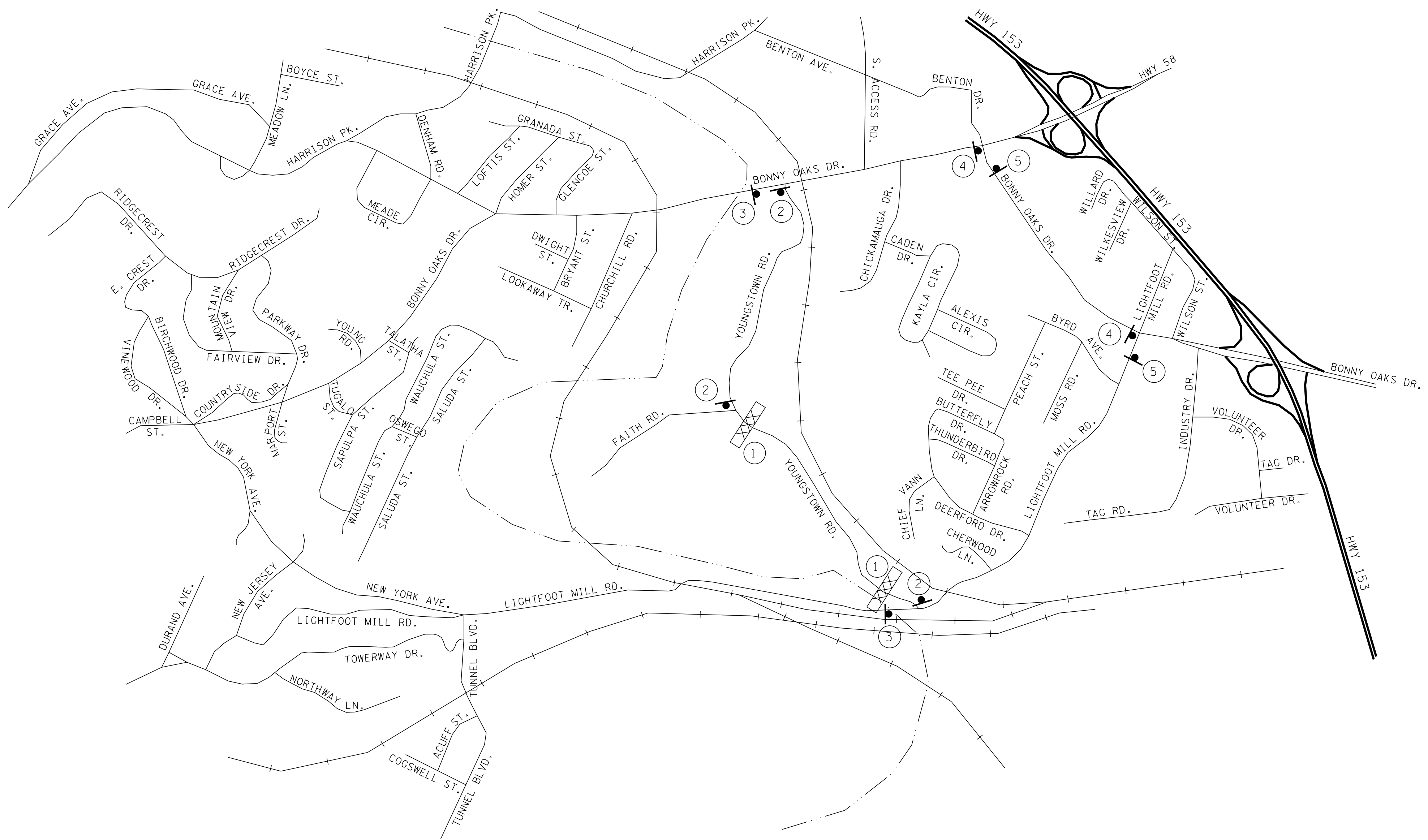
①  R11-2
60" X 30"
TYPE III BARRICADE
w/ TYPE A
WARNING LIGHTS

②  W20-3
36" X 36"
ROAD
CLOSED
AHEAD

③  YOUNGSTOWN RD.
↑
DETOUR
M4-9S (SPECIAL)
42" X 30"

④  YOUNGSTOWN RD.
→
DETOUR
M4-9R (SPECIAL)
42" X 30"

⑤  YOUNGSTOWN RD.
←
DETOUR
M4-9L (SPECIAL)
42" X 30"



N
DETOUR MAP
N.T.S.

TRAFFIC CONTROL NOTES

TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION		DATE	DESCRIPTION
REV.	DR.	06-04-2019 <td>ISSUED FOR BID</td>	ISSUED FOR BID
0	AGH		

\$DATE \$
\$TIME \$
\$INSTR \$
\$USER \$
\$TBL \$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

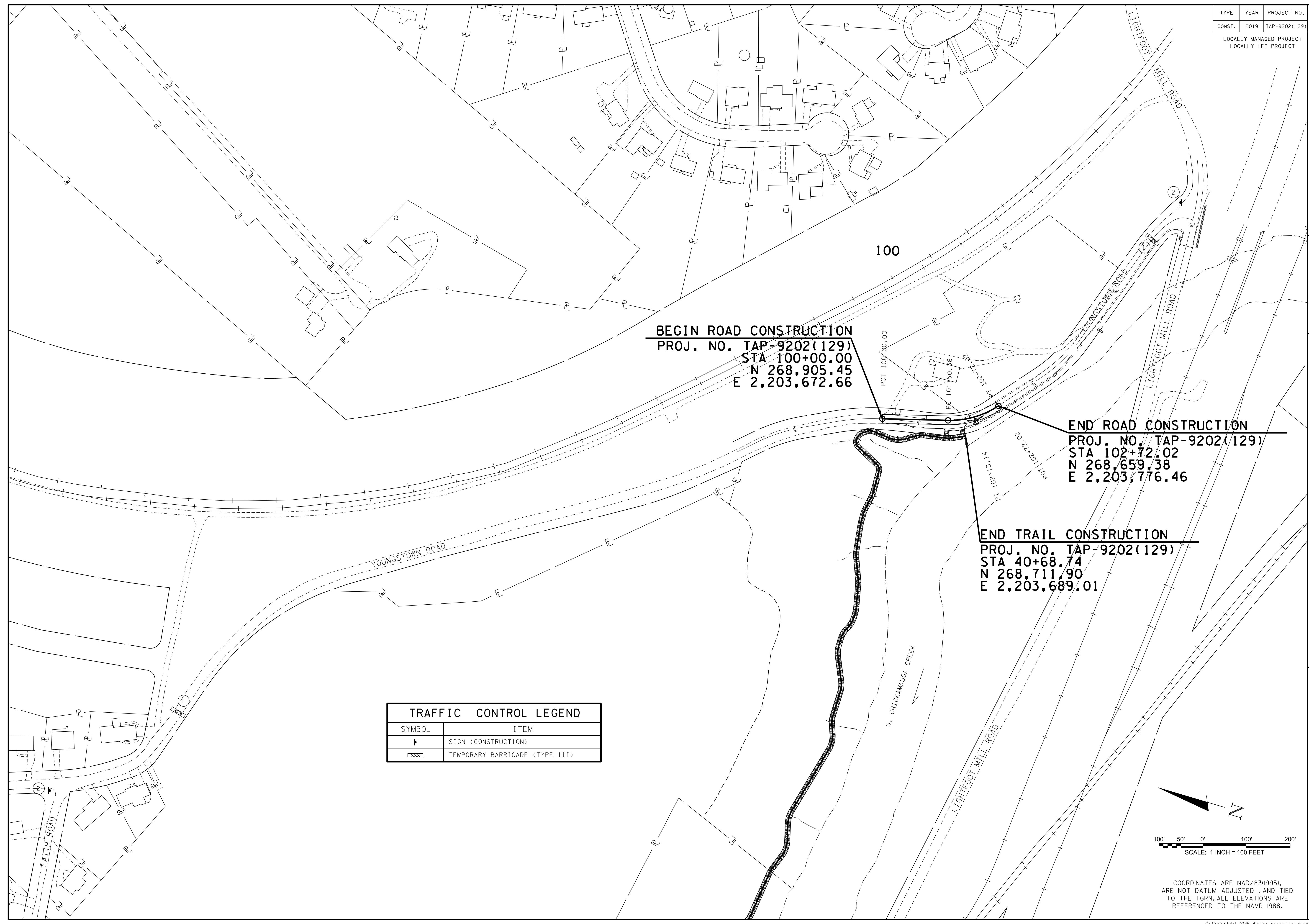
BWSC
BARGE
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&
SUMNER
&
CANNON, INC.
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TRAFFIC CONTROL PLAN
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

17A
FILE NO. 35531-10

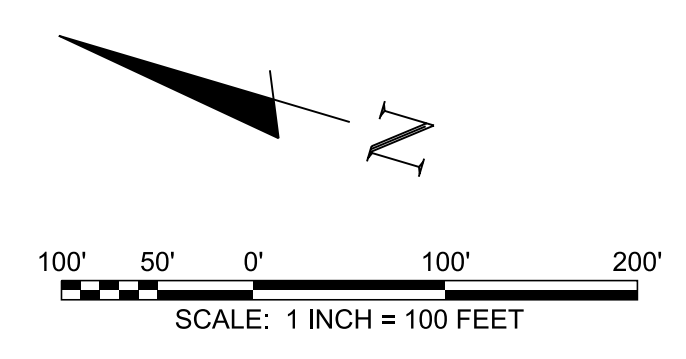


BEGIN ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 100+00.00
N 268,905.45
E 2,203,672.66

END ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 102+72.02
N 268,659.38
E 2,203,776.46

END TRAIL CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 40+68.74
N 268,711.90
E 2,203,689.01

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
↑	SIGN (CONSTRUCTION)
XXXX	TEMPORARY BARRICADE (TYPE III)



COORDINATES ARE NAD/83(1995),
ARE NOT DATUM ADJUSTED, AND TIED
TO THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

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TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

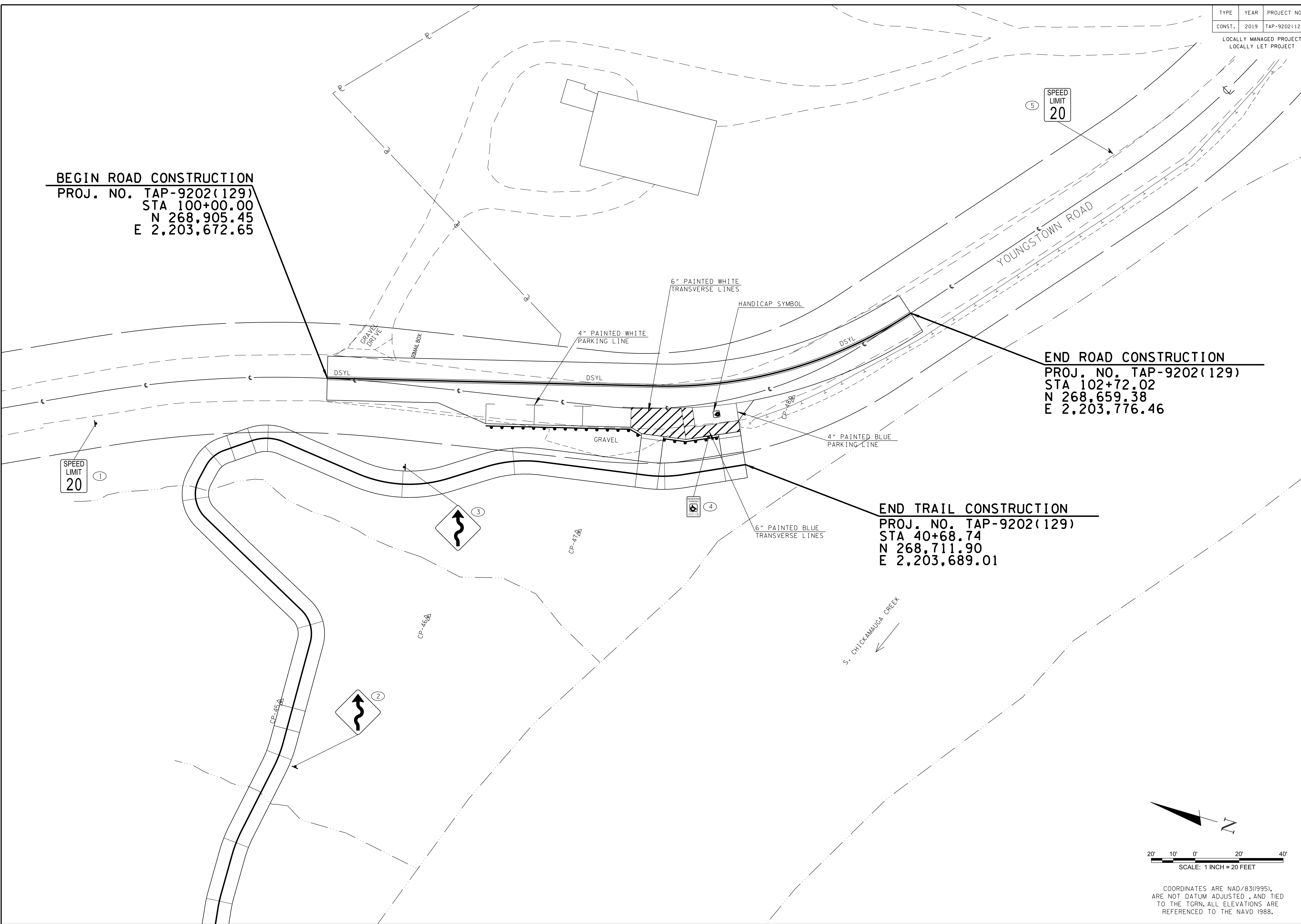
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PROJ. NO. TAP-9202(129)
STA 100+00.00
N 268,905.45
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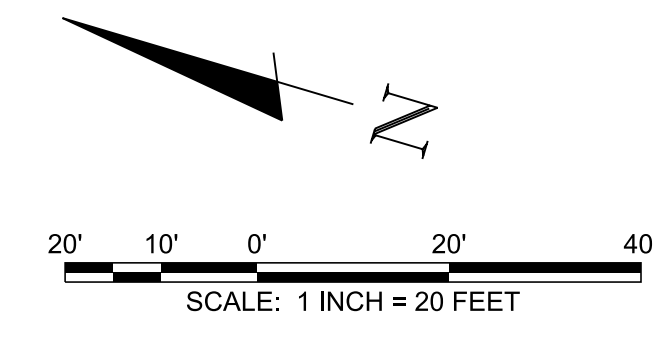
END ROAD CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 102+72.02
N 268,659.38
E 2,203,776.46

END TRAIL CONSTRUCTION
PROJ. NO. TAP-9202(129)
STA 40+68.74
N 268,711.90
E 2,203,689.01



SIGNING AND PAVEMENT MARKINGS PLAN
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID



COORDINATES ARE NAD/83(1995),
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TO THE TGRN. ALL ELEVATIONS ARE
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18
FILE NO. 35531-10

\$DATE\$
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\$USER\$
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\$DCN\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

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LOCALLY LET PROJECT

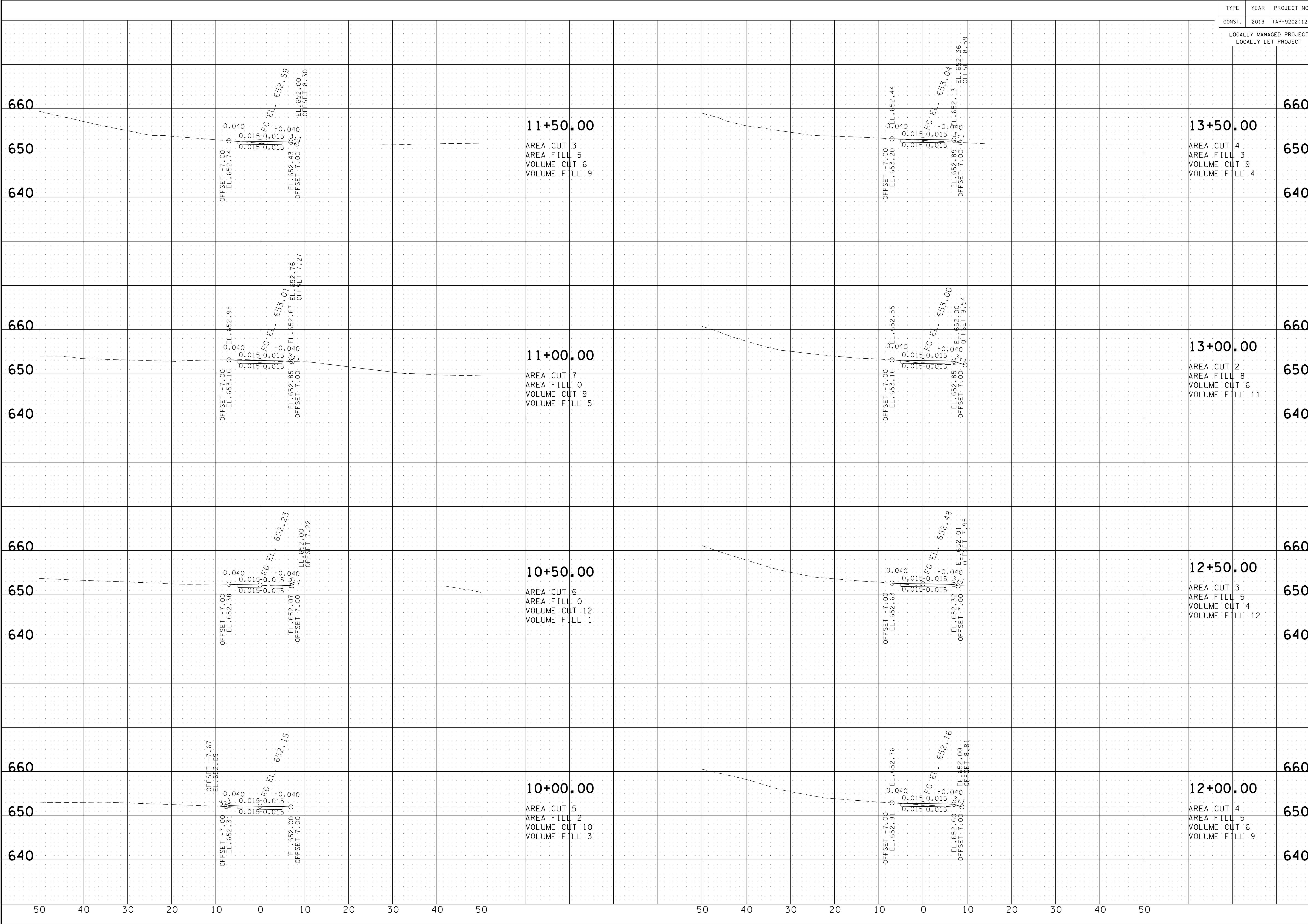
BWSC
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CROSS SECTIONS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
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19
FILE NO. 35531-10



\$DATE\$
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\$USER\$
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TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

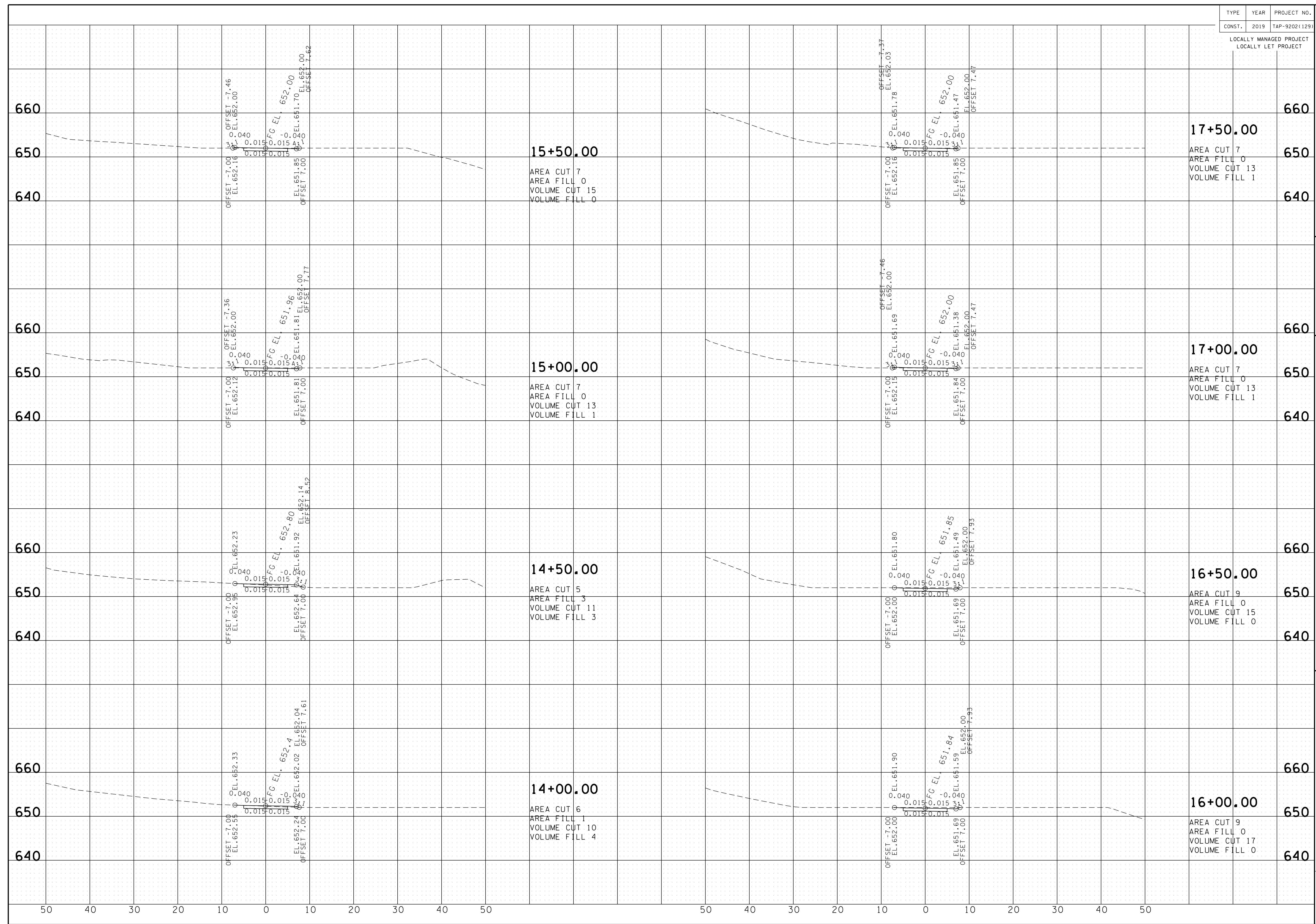
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CROSS SECTIONS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION	
REV.	DESCRIPTION
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20
FILE NO. 35531-10



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TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

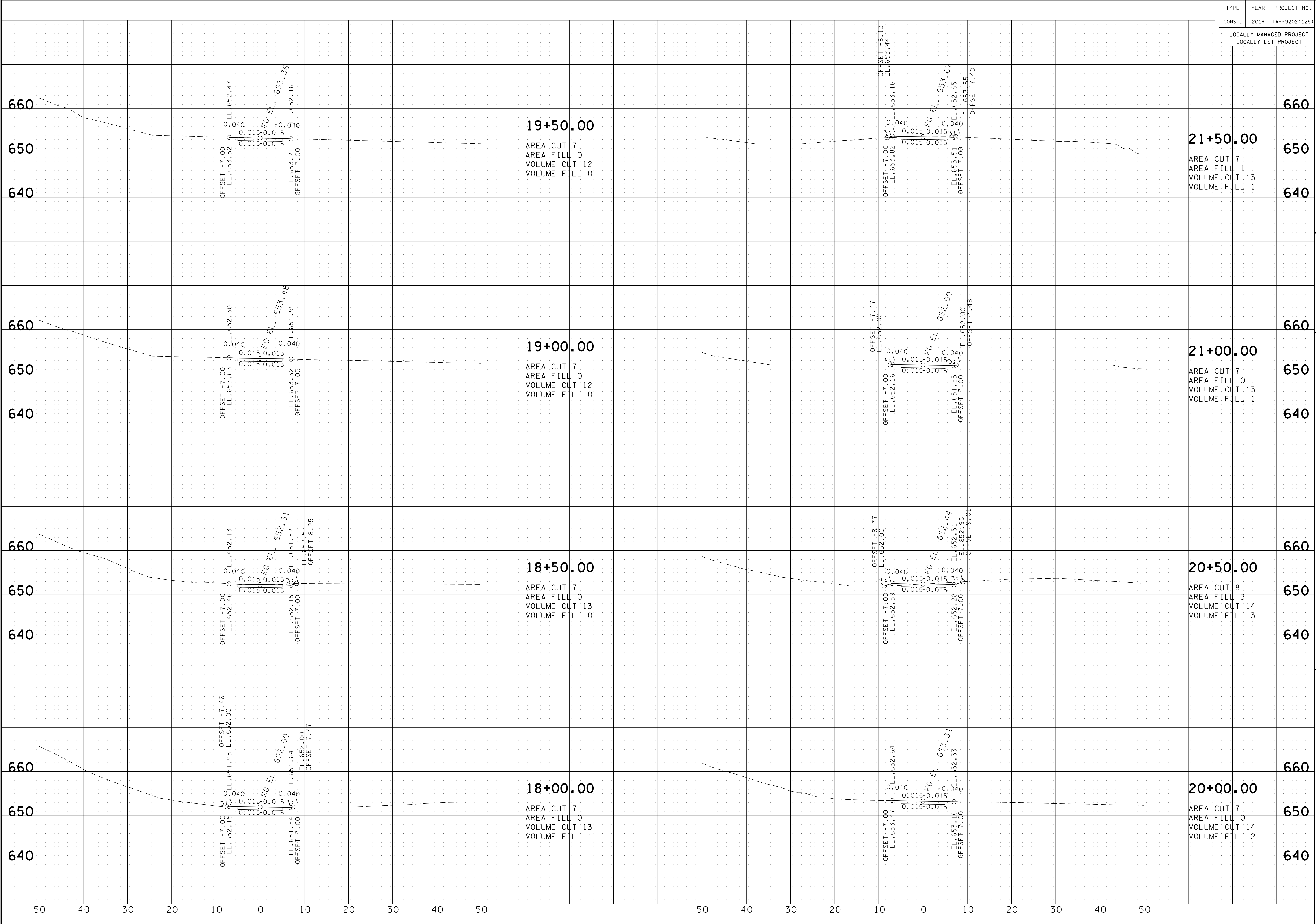
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CROSS SECTIONS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION		DATE	DESCRIPTION	ISSUED FOR BID
CHK	DR.	06-04-2019		
REV.	AGH			

21
FILE NO. 35531-10



\$DATE\$
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TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

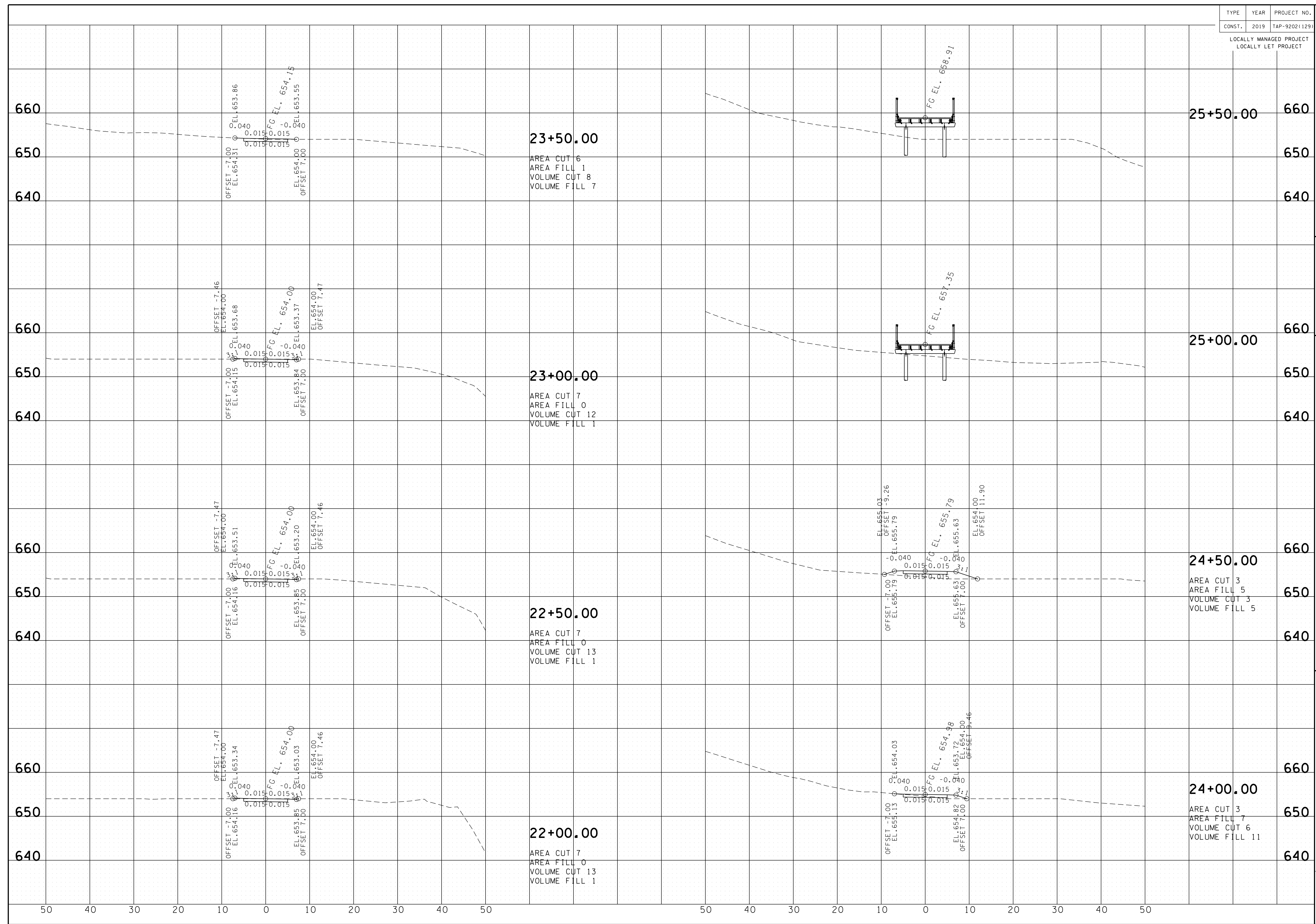
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CROSS SECTIONS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

22
FILE NO. 35531-10



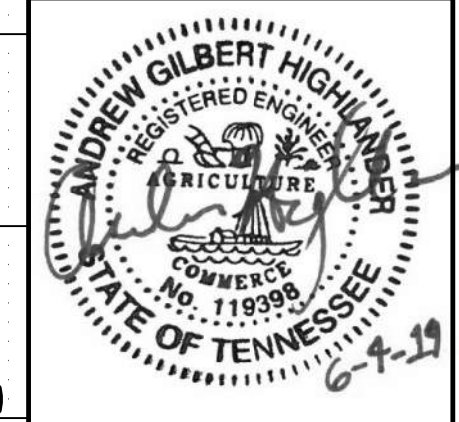
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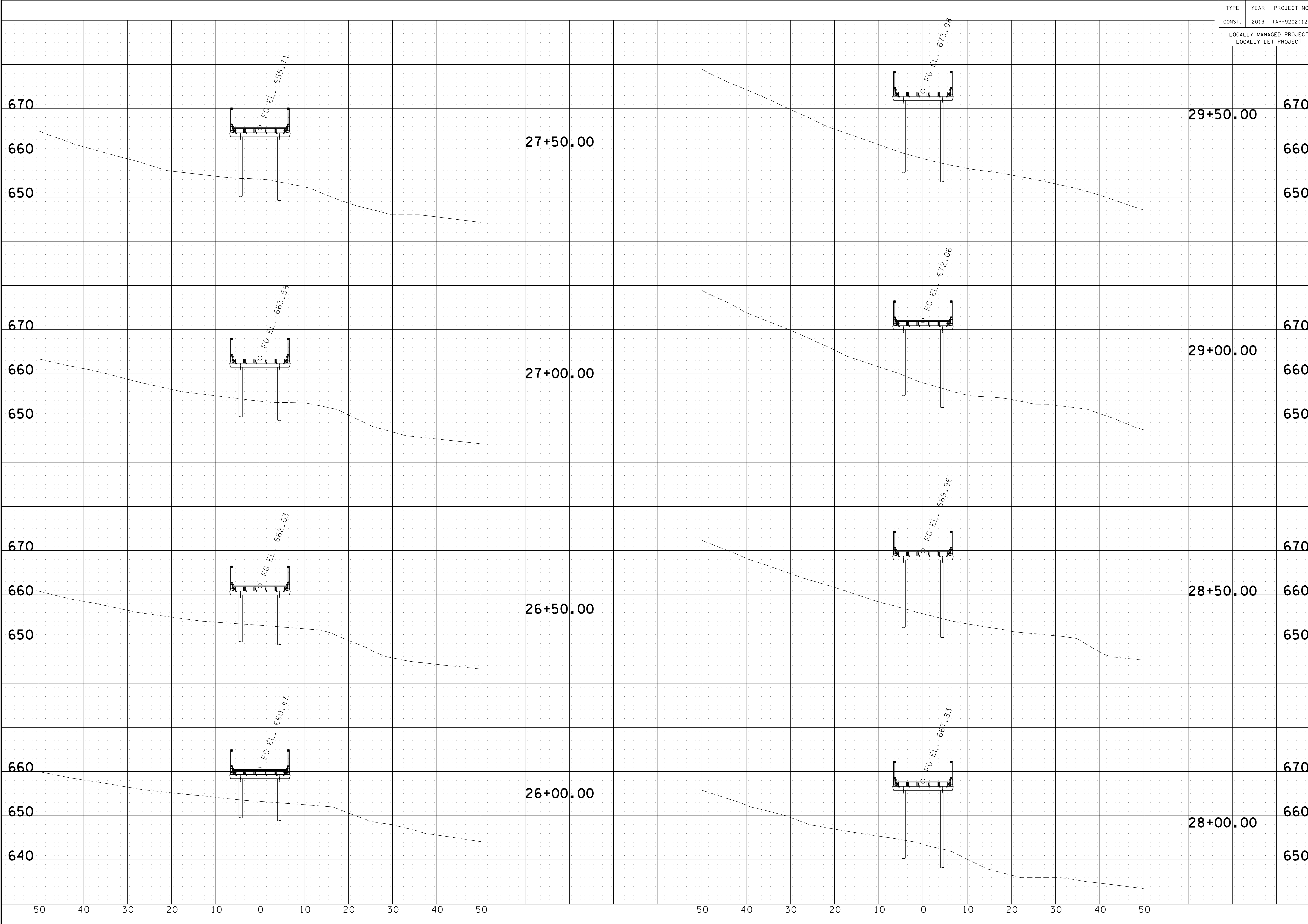
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CROSS SECTIONS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY



REVISION INFORMATION	
REV.	DESCRIPTION
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23
FILE NO. 35531-10

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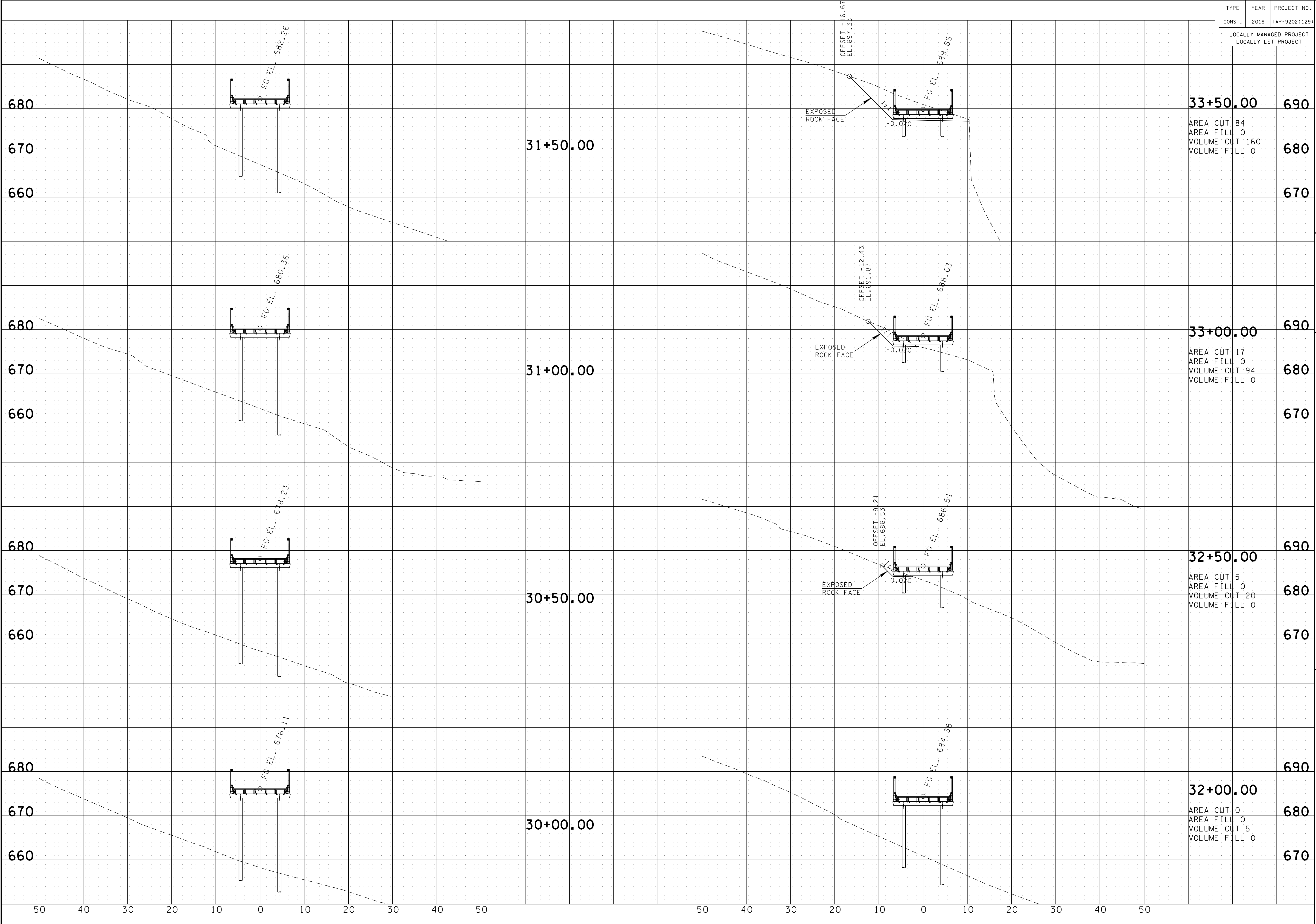
TYPE	YEAR	PROJECT NO.
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CROSS SECTIONS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY



REVISION INFORMATION		DATE	DESCRIPTION
CHK	BCN	06-04-2019	ISSUED FOR BID
DR.	AGH		
REV.	0		

24
FILE NO. 35531-10

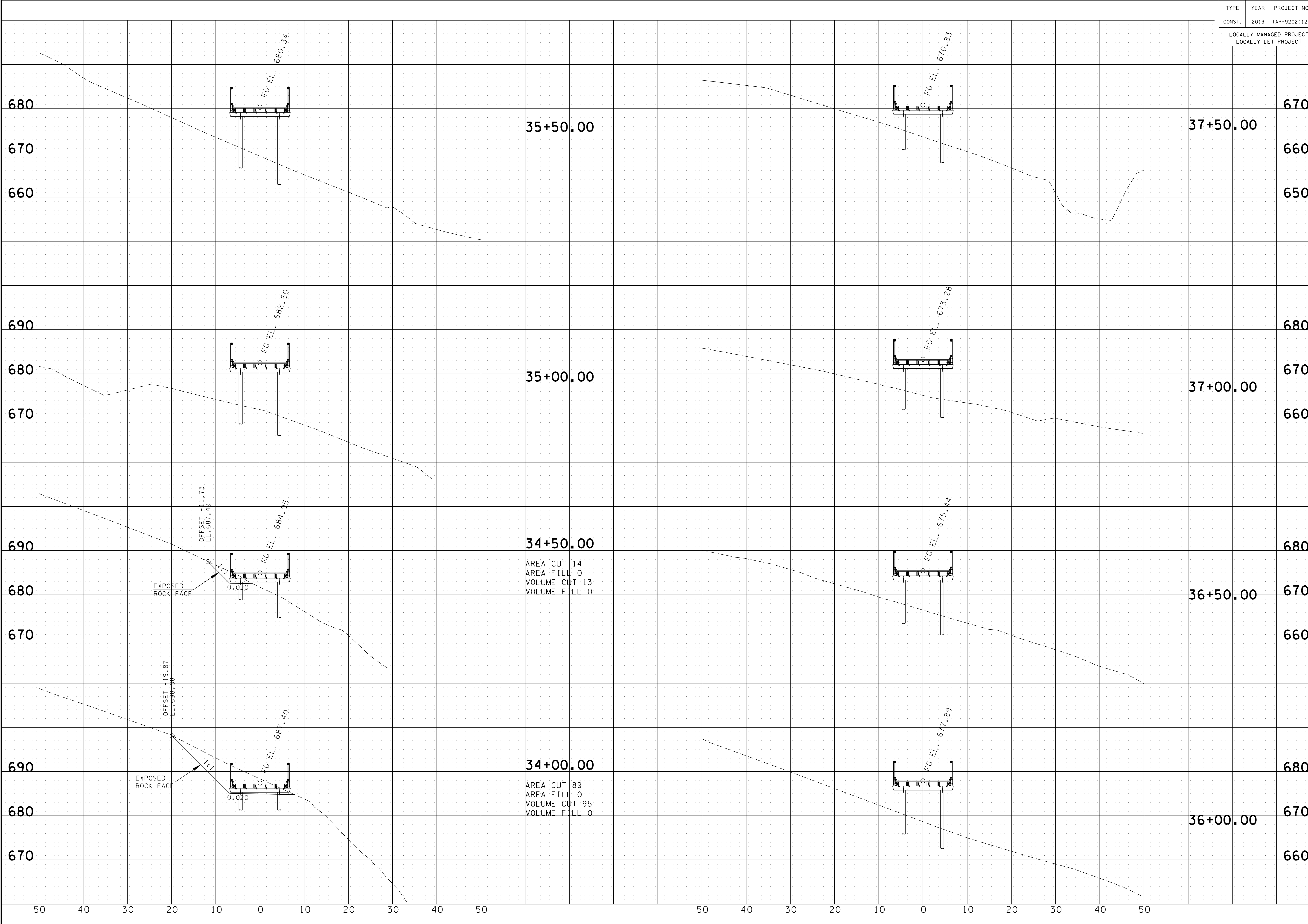
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CROSS SECTIONS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
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HAMILTON COUNTY

REVISION INFORMATION	
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25
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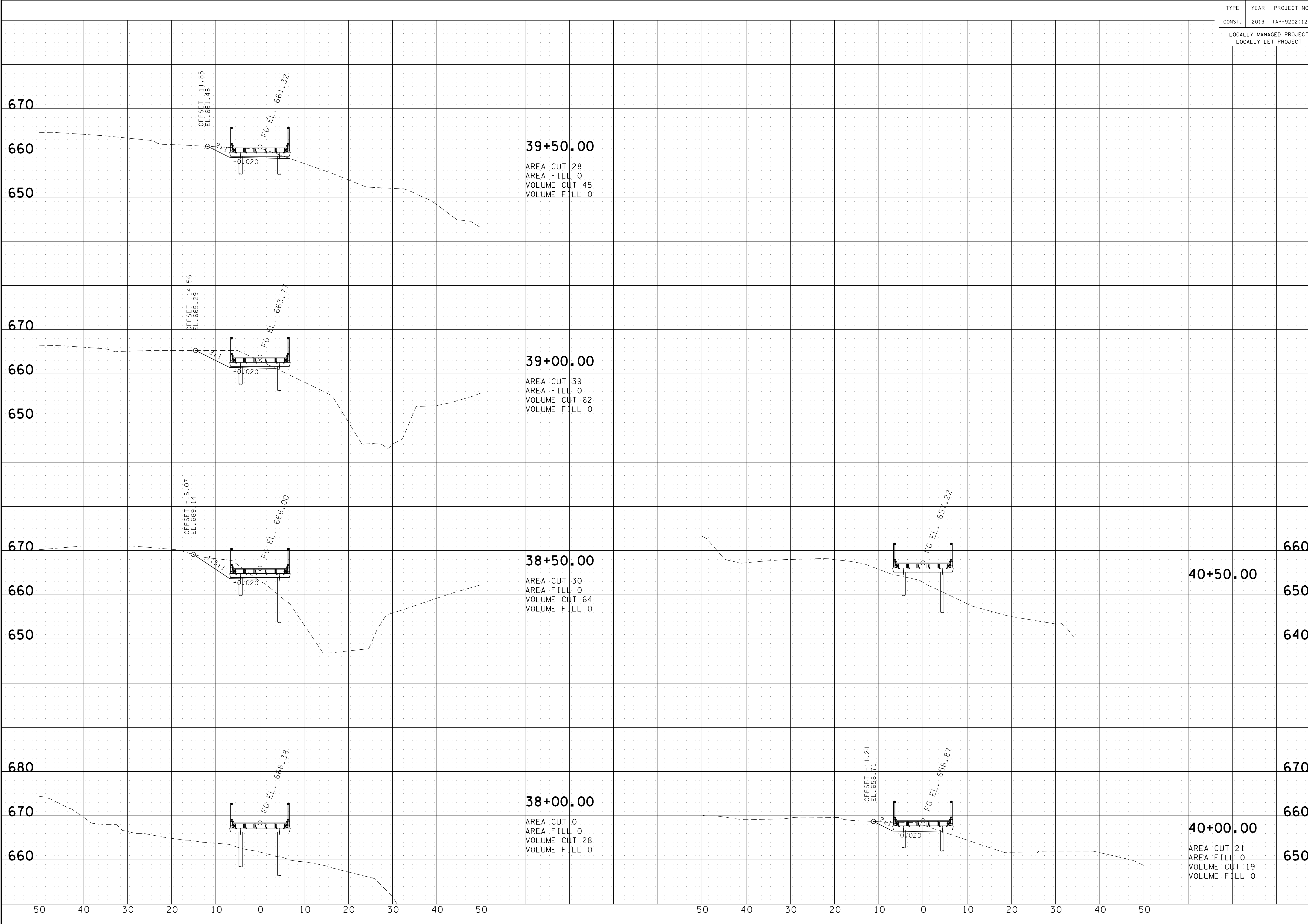
TYPE	YEAR	PROJECT NO.
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CROSS SECTIONS
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY



39+50.00
AREA CUT 28
AREA FILL 0
VOLUME CUT 45
VOLUME FILL 0

39+00.00
AREA CUT 39
AREA FILL 0
VOLUME CUT 62
VOLUME FILL 0

38+50.00
AREA CUT 30
AREA FILL 0
VOLUME CUT 64
VOLUME FILL 0

38+00.00
AREA CUT 0
AREA FILL 0
VOLUME CUT 28
VOLUME FILL 0

40+50.00

40+00.00
AREA CUT 21
AREA FILL 0
VOLUME CUT 19
VOLUME FILL 0

REVISION INFORMATION	
REV.	DESCRIPTION
0	ISSUED FOR BID

26

FILE NO. 35531-10

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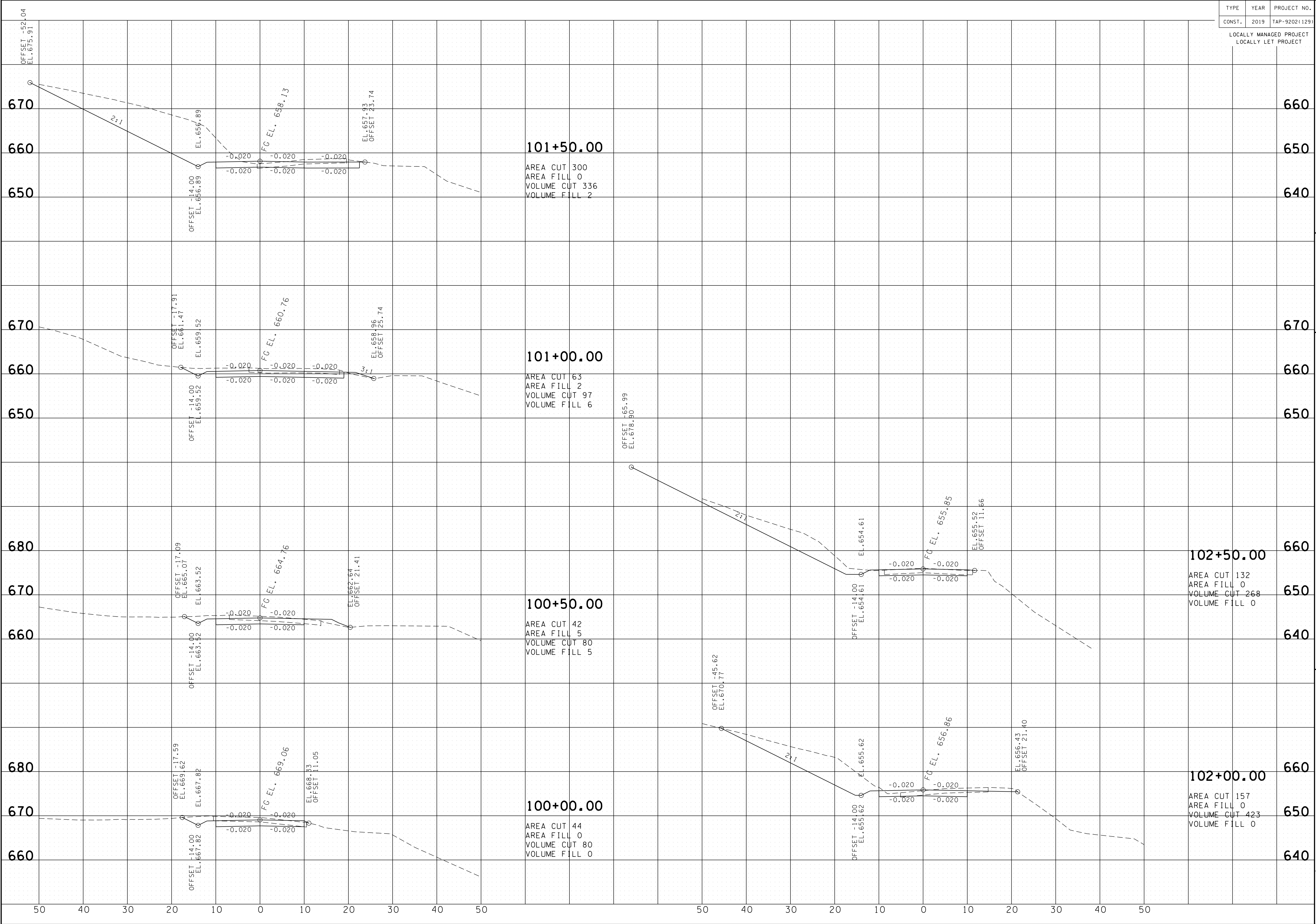
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CROSS SECTIONS
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SOUTH CHICKAMAUGA GREENWAY
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HAMILTON COUNTY

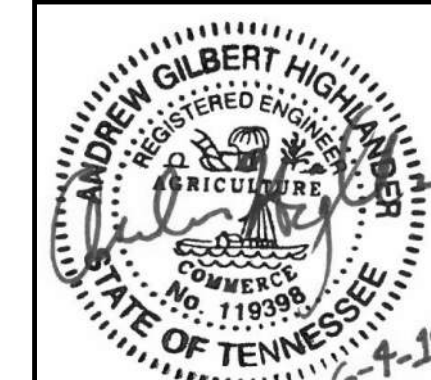


REVISION INFORMATION		DATE	DESCRIPTION	ISSUED FOR BID
CHK	DR.	06-04-2019		
0	AGH			

27
FILE NO. 35531-10

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\$USER\$
\$TBL\$

\$DGN\$



CITATIONS IN PARENTHESIS INDICATE SECTIONS OF THE CURRENT CGP.

1. SWPPP REQUIREMENTS (3.0)

- 1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING CERTIFICATIONS (3.1.1) YES NO (CHECK ALL THAT APPLY BELOW)
- 1.1.1. CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC); OR
- 1.1.2. TDEC LEVEL II
- 1.2. DOES THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (SEDIMENT BASINS, ETC.)? YES NO (3.1.1)
IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT?
 YES NO
- 1.3. DO THE PROJECT STORMWATER OUTFALLS DISCHARGE INTO THE FOLLOWING? (5.4.1) YES NO (CHECK ALL THAT APPLY BELOW)
- 1.3.1. IMPAIRED WATERS (303d FOR SILTATION OR HABITAT ALTERATION)
- 1.3.2. TENNESSEE KNOWN EXCEPTIONAL WATERS
IF YES, HAVE THE EPSC PLANS BEEN PREPARED BY AN INDIVIDUAL WHO HAS COMPLETED TDEC LEVEL II? YES NO N/A (5.4.1.b); AND
IF YES, HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL WHO HAS COMPLETED TDEC LEVEL II? YES NO N/A (5.4.1.b)

NOTE: ALTHOUGH THE RECEIVING WATERS ARE NOT CLASSIFIED AS IMPAIRED BY SILTATION OR HABITAT ALTERATION OR AS EXCEPTIONAL WATERS OF THE STATE, THE RECEIVING WATERS WILL BE ASSUMED TO BE EXCEPTIONAL WATERS OF THE STATE FOR CONSERVATIVE DESIGN AND CONSTRUCTION PURPOSES.

2. SITE DESCRIPTION (3.5.1)

- 2.1. PROJECT LIMITS REFER TO EROSION CONTROL PLAN SHEET 15, 15A, 16, AND 16A (3.5.1.g):
- 2.2. PROJECT DESCRIPTION: (3.5.1.a)
TITLE: SOUTH CHICKAMAUGA GREENWAY – YOUNGSTOWN CONNECTOR
COUNTY: HAMILTON COUNTY
LOCATION: FAITH RD AND YOUNGSTOWN RD, CHATTANOOGA, TN
- 2.3. SITE MAP(S): REFER TO USGS QUADRANGLE MAP (3.5.1.g)
- 2.4. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (3.5.1.d): THE PROJECT DRAINS INTO THE CITY OF CHATTANOOGA STORM WATER SYSTEM.
- 2.5. MAJOR SOIL DISTURBING ACTIVITIES (3.5.1.b) (CHECK ALL THAT APPLY)
- 2.5.1. CLEARING AND GRUBBING
- 2.5.2. EXCAVATION
- 2.5.3. CUTTING AND FILLING
- 2.5.4. FINAL GRADING AND SHAPING
- 2.5.5. UTILITIES
- 2.5.6. OTHER (DESCRIBE): ROAD WORK & MULTI-USE PATH CONSTRUCTION
- 2.6. TOTAL PROJECT AREA (3.5.1.c): 2.3 ACRES
- 2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 1.1 ACRES
IF GREATER THAN 50 ACRES, HAS CONSTRUCTION PROJECT PHASING BEEN SPECIFIED IN SECTION 3 BELOW AND IN THE PLANS (3.5.3.1.k)?
 YES NO N/A
- NOTE: BECAUSE THE ENTIRE DISTURBED AREA WILL NOT EXCEED 50 ACRES, ONLY ONE PHASE IS REQUIRED FOR THE PROJECT. HOWEVER, THE PROJECT WILL BE SEQUENCED IN THE THREE STAGES DESCRIBED BELOW. IN THIS WAY, THE TOTAL UNSTABILIZED DISTURBED AREA SHOULD NEVER EXCEED APPROXIMATELY 10 ACRES.
- 2.8. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? YES NO
IF YES, DESCRIBE AND LIST THE CORRESPONDING PLAN SHEET: _____

2.9. SOIL PROPERTIES (3.5.1.e) (4.1.1)
SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

SOIL PROPERTIES			
PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)
FULLERTON CHERTY SILT LOAM, 25 TO 40 PERCENT SLOPES	B	38.2	0.28
SEQUATCHIE LOAM, 2 TO 7 PERCENT SLOPES	B	61.8	0.32

2.10. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (3.5.1.f)

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS			
AREA TYPE	AREA(AC)	PERCENTAGE OF WATERSHED (%)	RUNOFF COEFFICIENT
WOODS, GOOD CONDITION – B SOILS	2.2	96%	55.0
IMPERVIOUS AREA	0.1	4%	98.0
WEIGHTED CURVE NUMBER OR C-FACTOR =			56.9

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS			
AREA TYPE	AREA(AC)	PERCENTAGE OF WATERSHED (%)	RUNOFF COEFFICIENT
WOODS, GOOD CONDITION – B SOILS	1.8	78%	55.0
IMPERVIOUS AREA	0.5	22%	98.0
EIGHTED CURVE NUMBER OR C-FACTOR =			64.3

3. ORDER OF CONSTRUCTION ACTIVITIES (3.5.1.b, 3.5.2.a)

STAGE	DESCRIPTION
1	INSTALL PERIMETER EROSION CONTROL MEASURES
	INSTALL TEMPORARY CONSTRUCTION EXITS
	INSTALL INLET PROTECTION MEASURES
2	SAWCUT ASPHALT PAVEMENT AND DRIVEWAYS
	DEMOLITION IN AREA OF MULTI-USE PATH
	INSTALL/RELOCATE UTILITIES AND STORM DRAINAGE
	CLEAR, GRUB, AND GRADE AREA FOR MULTI-USE PATH
	ADJUST PERIMETER EROSION CONTROL MEASURES AS REQUIRED
	ADJUST INLET PROTECTION MEASURES AS REQUIRED
	TEMPORARY STABILIZATION AS REQUIRED
3	MILL AND OVERLAY ASPHALT ROAD
	CONSTRUCT MULTI-USE PATH
	REMOVE TEMPORARY EPSC PRACTICES, STABILIZE (FINAL) SITE

- 3.1. PERFORM CLEARING AND GRUBBING (NOT MORE THAN 15 DAYS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW).
- 3.2. STABILIZE DISTURBED AREAS WITHIN 14 DAYS OF COMPLETING ANY PHASE OF ACTIVITY.

4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION

- 4.1. STREAM INFORMATION
WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS? YES NO
- 4.1.1. STREAM INFORMATION

- 4.1.1.1. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (3.5.1.i). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS. ALL PERMITS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER.

4.1.1.2. RECEIVING STREAMS (3.5.1.j)

RECEIVING STREAM INFORMATION			
NATURAL RESOURCE LABEL	NAME OF RECEIVING NATURAL RESOURCE	IMPAIRED FOR SILTATION OR HABITAT ALTERATION (YES OR NO)	KNOWN EXCEPTIONAL QUALITY WATERS (YES OR NO)
STR-1	SOUTH CHICKAMAUGA CREEK	YES	NO

NOTE: ALTHOUGH THE RECEIVING WATERS ARE NOT CLASSIFIED AS IMPAIRED BY SILTATION OR HABITAT ALTERATION OR AS EXCEPTIONAL WATERS OF THE STATE, THE RECEIVING WATERS WILL BE ASSUMED TO BE EXCEPTIONAL WATERS OF THE STATE FOR CONSERVATIVE DESIGN AND CONSTRUCTION PURPOSES.

- 4.1.2. ARE BUFFER ZONES REQUIRED? YES NO (4.1.2, 5.4.2)
IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) 15, 15A, 16, AND 16A.
IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER
 60- FEET FOR IMPAIRED AND EXCEPTIONAL WATERS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30- FEET)
 30- FEET FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15- FEET)

4.1.3. ARE THERE BUFFER ZONE EXEMPTIONS? YES NO N/A (4.1.2.1)

4.2. OUTFALL INFORMATION:

- A SEDIMENT BASIN OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:
- 4.2.1. OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO AN IMPAIRED STREAM OR KNOWN EXCEPTIONAL QUALITY WATER (3.5.3.3)
- 4.2.2. OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO AN IMPAIRED STREAM OR KNOWN EXCEPTIONAL QUALITY WATER (5.4.1.f).
- 4.2.3. OUTFALL TABLE (3.5.1.d, 5.4.1.f)

OUTFALL INFORMATION					
OUTFALL LABEL	SLOPE (%)	DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	SUB-OUTFALL (e.g. A, B, C)†	RECEIVING NATURAL RESOURCE NAME OR LABEL
OUT-1	N/A	N/A	N/A	-	S. CHICK.. CRK.

†NOTE: SUB-OUTFALLS ARE DEFINED AS OUTFALLS THAT DISCHARGE WITHIN THE PROJECT AND DO NOT DIRECTLY DISCHARGE OFF ROW OR INTO WATERS OF THE STATE.

- 4.2.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED THROUGH THE PROJECT SO THAT THE OFF-SITE RUN-ON WILL NOT FLOW OVER DISTURBED AREAS WITHIN THE ROW, THUS SEPARATING NON-PROJECT RUN-OFF FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA TO ANY ONE OUTFALL? YES NO
- 4.2.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S)? YES NO
- 4.2.6. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (3.5.1.g, 5.4.1.f)? YES NO

SWPPP

TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DATE	DESCRIPTION	ISSUED FOR
0	06-04-2019	ISSUED FOR BID	

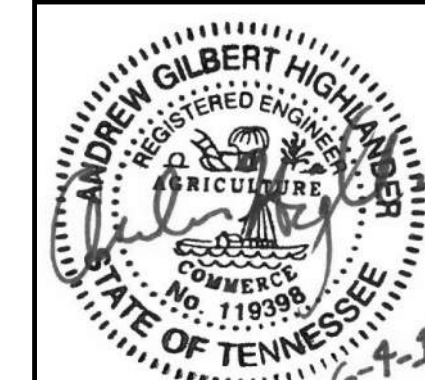
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FILE NO. 35531-10

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

BARGE WAGGONER SUMNER & CANNON, INC.
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SWPPP
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

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- 4.2.7. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (2.6.2)?
YES NO
- 4.3. WETLAND INFORMATION
WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WETLANDS? YES NO
- 4.4. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (3.5.10)
4.4.1. IS THIS PROJECT LOCATED IN A WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION? YES NO
4.4.2. IF YES, IS THIS PROJECT LOCATED WITHIN A SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)? YES NO N/A
4.4.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION OR HABITAT ALTERATION?
YES NO N/A
4.4.4. IF YES, HAS A SUMMARY OF THE CONSULTATION (LETTER) BEEN INCLUDED WITH THE SWPPP DOCUMENTATION? YES NO N/A
- 4.5. ECOLOGY INFORMATION (3.5.5.e)
ARE THERE STATE OR FEDERALLY LISTED SPECIES LOCATED WITHIN THE PROJECT AREA? SPECIAL NOTES ARE REQUIRED TO DESCRIBE MEASURES NECESSARY TO PREVENT "TAKING" OF LEGALLY PROTECTED STATE OR FEDERALLY LISTED THREATENED OR ENDANGERED AQUATIC FAUNA AND/OR CRITICAL HABITAT.
YES NO NO NOTES REQUIRED
IF YES, LIST ALL PLAN SHEETS WHERE SPECIAL NOTES HAVE BEEN ADDED.
SHEETS 2D & 14
- 5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES** (3.5.3)
5.1. EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE EROSION. (4.1.1)
5.2. EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS, STREAM CHANNELS AND STREAM BANKS. (4.1.1)
5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED ACCORDING TO THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (3.5.3.3)? YES NO
5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 5-YEAR, 24 HOUR STORM EVENT (3.5.3.3, 5.4.1.a).
5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS? (3.5.1.n) YES NO
5.6. HAVE PHASED EPSC PLANS BEEN PREPARED FOR THE PROJECT? (3.5.2)
YES NO (IF YES, CHECK ONE BELOW)
5.6.1. PROJECT DISTURBED AREA IS THAN LESS THAN 5 ACRES (MINIMUM OF TWO PHASES OF EPSC PLANS)
5.6.2. PROJECT DISTURBED AREA IS GREATER THAN 5 ACRES (MINIMUM OF THREE PHASES OF EPSC PLANS)
5.7. IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.4.1.a)? YES NO
5.8. HAVE STEEP SLOPES (GREATER THAN 35%) BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE? (3.5.3.2) (10 "STEEP SLOPE")
YES NO
5.9. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE RESEARCHED, APPLIED IN ACCORDANCE WITH MANUFACTURE'S GUIDELINES AND FULLY DESCRIBED ON THE EPSC PLANS (3.5.3.1.b).
5.10. ALL EPSC CONTROL MEASURES WILL BE INSTALLED ACCORDING TO REFERENCED STANDARDS.
5.11. EPSC MEASURES WILL NOT BE INSTALLED IN A STREAM WITHOUT FIRST OBTAINING US COE SECTION 404, TDEC ARAP, AND TVA PERMITS.
5.12. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY CONTROLS PROVIDING EQUIVALENT LEVEL OF TREATMENT (FILTRATION) (4.14)
5.13. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS MUST USE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT, UNLESS INFEASIBLE. (4.1.7)
5.14. STABILIZATION PRACTICES

- PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 15 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED. (3.5.3.1.h)
- 5.15. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 14 DAYS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE. (3.5.3.2)
- 5.16. STEEP SLOPES (3.5.3.2)
STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR STEEPER REGARDLESS OF HEIGHT. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.
- 6. CONSTRUCTION SUPPORT ACTIVITIES – BORROW AND WASTE AREAS** (1.2.2) (3.5.3.1.g)
WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S) CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.
- 7. MAINTENANCE AND INSPECTION**
7.1. INSPECTION PRACTICES (3.5.8)
7.1.1. INSPECTORS MUST HAVE SUCCESSFULLY COMPLETED THE TDEC FUNDAMENTALS OF EROSION AND SEDIMENT CONTROL COURSE (TDEC LEVEL I) AND MAINTAIN THE CERTIFICATION. A COPY OF THE INSPECTOR'S CERTIFICATION SHOULD BE KEPT ON SITE. (3.5.8.1)
7.1.2. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART. (3.5.8.2.a)
7.1.3. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH (I.E. EXTREME DROUGHT CONDITIONS, FROZEN GROUND, ETC.) WITH WRITTEN NOTIFICATION TO THE LOCAL ENVIRONMENTAL FIELD OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION. (3.5.8.2.a)
7.1.4. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED. (3.5.8.2.b)
7.1.5. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, US COE AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE. (10)
7.1.6. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 7 DAYS OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION. (3.8.5.2.e AND 3.8.5.2.f)
7.1.7. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED. (10 "INSPECTOR") (3.5.1.n)
7.1.8. INSPECTIONS WILL BE DOCUMENTED ON THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM PROVIDED IN APPENDIX C OF THE CGP AND INCLUDE THE SCOPE OF THE INSPECTION, NAME(S), TITLE AND TN EPSC CERTIFICATION NUMBER OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, CURRENT APPROXIMATE DISTURBED ACREAGE AT TIME OF INSPECTION, CHECKLIST (NOC, SWPPP, RAIN GAUGE, SITE CONTACT INFORMATION, ETC.) AND MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWPPP. (3.5.8.2.g)
7.1.9. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER.

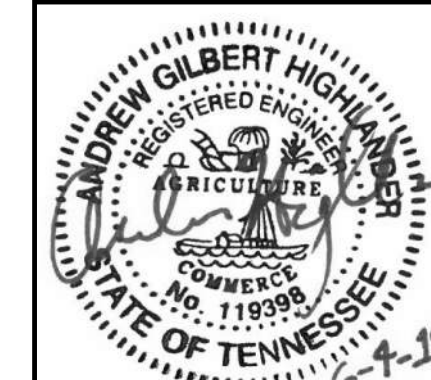
- 7.1.10. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET FINAL STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.
- 7.1.11. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION DOCUMENTATION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES. (3.8.5.2.h)
- 7.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)
THE PROJECT SUPERVISOR/CONTRACTOR MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT SUPERVISOR/CONTRACTOR AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST SUBMIT WRITTEN AUTHORIZATION TO THE LOCAL TDEC EFO.
- 7.3. MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)
7.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER. NECESSARY REPAIRS OR MAINTENANCE WILL BE ACCOMPLISHED BEFORE THE NEXT STORM EVENT AND IN NO CASE MORE THAN 7 DAYS AFTER THE NEED IS IDENTIFIED. IN A CASE WHERE THE ACTIVITY IS DEEMED IMPRACTICABLE, ANY SUCH CONDITIONS WILL BE DOCUMENTED (3.5.8.2.e).
7.3.2. ALL CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (3.5.3.1.b)
7.3.3. SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, AND OTHER CONTROLS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%. (3.5.3.1.e)
7.3.4. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE HEIGHT OF THE DAM.
7.3.5. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF OF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED. (3.5.3.1.f)
7.3.6. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.
7.3.7. THE PROJECT SUPERVISOR OR THEIR DESIGNEE AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
- 8. SITE ASSESSMENTS** (3.1.2)
QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS REQUIRED:
YES NO
- 9. STORMWATER MANAGEMENT** (3.5.4)
9.1. STORMWATER MANAGEMENT WILL BE HANDLED BY TEMPORARY CONTROLS OUTLINED IN THIS SWPPP AND ANY PERMANENT CONTROLS NEEDED TO MEET PERMANENT STORMWATER MANAGEMENT NEEDS IN THE POST CONSTRUCTION PERIOD. PERMANENT CONTROLS WILL BE SHOWN ON THE PLANS AND NOTED AS PERMANENT.
9.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (3.5.1.f, 3.5.4): EXISTING POND, RIPRAP APRONS, CATCH BASIN INSERTS
9.3. OTHER ITEMS NEEDING CONTROL (3.5.5)
9.3.1. CONSTRUCTION MATERIALS
THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

\$DATE\$
\$TIME\$
\$INSTR\$
\$USER\$
\$TBL\$

TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

BARGE WAGGONER SUMNER & CANNON, INC.
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SWPPP
TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION		DATE	DESCRIPTION
REV.	CHK.	DATE <td>DESCRIPTION</td>	DESCRIPTION
0	0	06-04-2019	ISSUED FOR BID

S-3
FILE NO. 35531-10

- 9.3.1.1. LUMBER, GUARDRAIL, TRAFFIC CONTROL DEVICES
- 9.3.1.2. CONCRETE WASHOUT
- 9.3.1.3. CONCRETE AND CORRUGATED METAL PIPES
- 9.3.1.4. MINERAL AGGREGATES, ASPHALT
- 9.3.1.5. EARTH
- 9.3.1.6. LIQUID TRAFFIC STRIPING MATERIALS, PAINT
- 9.3.1.7. ROCK
- 9.3.1.8. CURING COMPOUND
- 9.3.1.9. EXPLOSIVES
- 9.3.1.10. OTHER

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

9.3.2. WASTE MATERIALS (3.5.5.b)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S) CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

9.3.3. HAZARDOUS WASTE (3.5.5.c) (7.9)

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S ON-SITE REPRESENTATIVE WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

9.3.4. SANITARY WASTE (3.5.5.b)

PORTABLE SANITARY FACILITIES WILL BE PROVIDED ON ALL CONSTRUCTION SITES. SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL REGULATIONS. THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

9.3.5. OTHER MATERIALS

THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

- 9.3.5.1. FERTILIZERS AND LIME
- 9.3.5.2. PESTICIDES AND/OR HERBICIDES
- 9.3.5.3. DIESEL AND GASOLINE
- 9.3.5.4. MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED THIS SWPPP.

10. NON-STORMWATER DISCHARGES (3.5.9)

10.1. THE FOLLOWING NON-STORMWATER DISCHARGES ARE ANTICIPATED DURING THE COURSE OF THIS PROJECT (CHECK ALL THAT APPLY):

- 10.1.1. DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER
- 10.1.2. WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES SITE
- 10.1.3. WATER USED TO CONTROL DUST (3.5.3.1.n)
- 10.1.4. POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE
- 10.1.5. UNCONTAMINATED GROUNDWATER OR SPRING WATER
- 10.1.6. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS
- 10.1.7. OTHER:

10.2. ALL ALLOWABLE NON-STORMWATER DISCHARGES WILL BE DIRECTED TO STABLE DISCHARGE STRUCTURES PRIOR TO LEAVING THE SITE. FILTERING OR CHEMICAL TREATMENT MAY BE NECESSARY PRIOR TO DISCHARGE.

10.3. THE DESIGN OF ALL IMPACTED EPSC MEASURES RECEIVING FLOW FROM ALLOWABLE NON-STORMWATER DISCHARGES MUST BE DESIGNED TO HANDLE THE VOLUME OF THE NON-STORMWATER COMPONENT.

10.4. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS WILL NOT BE PERMITTED ON-SITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

10.5. ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED (3.5.1.h)?

YES NO

IF YES, SPECIFY THE LOCATION OF THE ACTIVITY AND ITS PERMIT NUMBER.

11. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (3.5.5.c, 5.1)

11.1. SPILL PREVENTION (3.5.5.c)

11.1.1. MATERIAL MANAGEMENT

11.1.1.1. HOUSEKEEPING

ONLY PRODUCTS NEEDED WILL BE STORED ON-SITE BY THE CONTRACTOR. EXCEPT FOR BULK MATERIALS THE CONTRACTOR WILL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING WILL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL PRODUCTS WILL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS WILL BE FOLLOWED. THE CONTRACTOR'S SITE SUPERINTENDENT WILL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATED WILL BE CONTROLLED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

11.1.1.2. HAZARDOUS MATERIALS

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DEGREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL PH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF.

11.1.1.3. PRODUCT SPECIFIC PRACTICES

11.1.1.3.1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

11.1.1.3.2. FERTILIZERS: FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. FERTILIZERS WILL BE STORED IN AN ENCLOSED AREA UNDER COVER. THE CONTENTS OF PARTIALLY USED

FERTILIZER BAGS WILL BE TRANSFERRED TO SEALABLE CONTAINERS TO AVOID SPILLS.

11.1.1.3.3. PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. THE EXCESS WILL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

11.1.1.3.4. CONCRETE TRUCKS: CONTRACTORS WILL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED AND NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE. UPON COMPLETION OF CONSTRUCTION WASHOUT AREAS WILL BE PROPERLY STABILIZED.

11.2. SPILL MANAGEMENT

11.2.1. IN ADDITION TO THE PREVIOUS HOUSEKEEPING AND MANAGEMENT PRACTICES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP IF NECESSARY.

11.2.2. FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

11.2.3. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. AS APPROPRIATE, EQUIPMENT AND MATERIALS MAY INCLUDE ITEMS SUCH AS BOOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR CLEAN UP PURPOSES.

11.2.4. ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

11.2.5. THE CONTRACTOR'S SITE SUPERINTENDENT WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.

11.2.6. IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS, PERSONNEL WILL RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.

11.2.7. IF OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.

11.2.8. IF A SPILL OCCURS THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM.

11.2.9. SPILL RESPONSE EQUIPMENT WILL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

11.3. SPILL NOTIFICATION (5.1)

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD:

11.3.1. A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE.

11.3.3. THE SWPPP MUST BE MODIFIED WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE, CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

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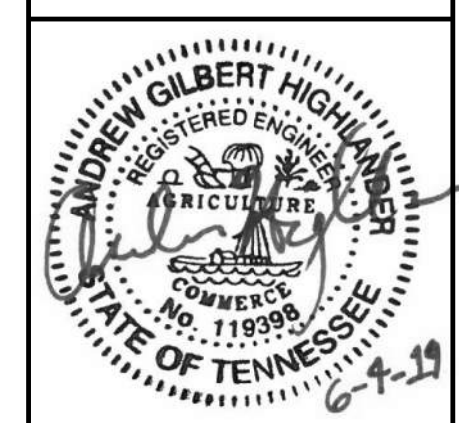
TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

BARGE WAGGONER SUMNER & CANNON, INC.

BWSC

110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477



12. RECORD-KEEPING

12.1. REQUIRED RECORDS

CONTRACTOR OR THEIR DESIGNEE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (3.5.3.1.m) (6.2.1):

- 12.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR
- 12.1.2. THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE
- 12.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED
- 12.1.4. RECORDS OF TWICE WEEKLY EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES
- 12.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS
- 12.1.6. COPY OF SITE EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION
- 12.1.7. RAINFALL MONITORING PLAN (3.5.3.1.o)

12.1.7.1. EQUIPMENT

AT A MINIMUM, THE CONTRACTOR WILL INSTALL A FENCE POST TYPE RAIN GAUGE TO MEASURE RAINFALL. THE STANDARD FENCE POST RAIN GAUGE WILL BE A WEDGE-SHAPED GAUGE THAT MEASURES UP TO 6 INCHES OF RAINFALL. AN ENGLISH SCALE WILL BE PROVIDED ON ONE FACE, WITH A METRIC SCALE ON THE OTHER FACE. GRADUATION WILL BE PERMANENTLY MOLDED IN DURABLE WEATHER-RESISTANT PLASTIC. THE MINIMUM GRADUATION WILL BE 0.01 INCH (OR 0.1MM). AN ALUMINUM BRACKET WITH SCREWS MAY BE USED TO MOUNT THE GAUGE ON A WOODEN SUPPORT.

12.1.7.2. LOCATION

THE RAIN GAUGE WILL BE LOCATED AT THE PROJECT SITE, IN AN OPEN AREA SUCH THAT THE MEASUREMENT WILL NOT BE INFLUENCED BY OUTSIDE FACTORS (I.E. OVERHANGS, GUTTER, TREES, ETC). ALTERNATIVELY, A REFERENCE SITE MAY BE USED. A REFERENCE SITE IS THE DOCUMENTATION FROM THE CLOSEST GAUGE WITHIN PROXIMITY OF THE PROJECT FROM A RECOGNIZED SOURCE SUCH AS THE NOAA NATIONAL WEATHER SERVICE.

12.1.7.3. METHODS

- 12.1.7.3.1. RAINFALL MONITORING WILL BE INITIATED PRIOR TO CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING, EXCEPT AS SUCH MINIMAL CLEARING MAY BE NECESSARY TO INSTALL A RAIN GAUGE IN AN OPEN AREA. THE RAIN GAUGE WILL BE CHECKED FOR OPERATIONAL SOUNDNESS DAILY (DURING NORMAL BUSINESS HOURS) IN WET TIMES AND WEEKLY IN DRY TIMES. GAUGES WILL BE REPAIRED OR REPLACED ON THE SAME DAY IF FOUND TO BE NON-OPERATIONAL OR MISSING.
- 12.1.7.3.2. EACH RAIN GAUGE WILL BE READ (FOR DETAILED RECORDS OF RAINFALL) AND EMPTIED AFTER EVERY RAINFALL EVENT OCCURRING ON THE PROJECT SITE AT APPROXIMATELY THE SAME TIME OF THE DAY (DURING NORMAL BUSINESS HOURS). DURING PERIODS OF DRY CONDITIONS, IT WILL NOT BE NECESSARY TO READ THE RAIN GAUGE EVERY DAY. IN LIEU OF THIS REQUIREMENT ON WEEKENDS AND ON STATE HOLIDAYS, THE RAIN GAUGES CAN BE EMPTIED THE NEXT BUSINESS DAY AND A REFERENCE SITE USED FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION FOR THOSE DAYS. A REFERENCE SITE IS THE DOCUMENTATION FROM THE CLOSEST GAUGE WITHIN PROXIMITY OF THE PROJECT FROM A RECOGNIZED SOURCE SUCH AS THE NOAA NATIONAL WEATHER SERVICE.
- 12.1.7.3.3. DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES).
- 12.1.7.3.4. IF, IN THE EVENT THAT THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY RECORDING TIME, THE GAUGE WILL BE EMPTIED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS.

12.1.7.3.5. RAIN GAUGE INFORMATION (DETAILED RECORDS), INCLUDING THE LOCATION OF THE NEAREST OUTFALL, WILL BE RECORDED ON THE EPSC INSPECTION REPORT FORMS AT THE TIME OF MEASUREMENT.

12.2. KEEPING PLANS CURRENT (3.4)

CONTRACTOR OR THEIR DESIGNEE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:

- 12.2.1. WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;
- 12.2.2. WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM CONSTRUCTION ACTIVITY SOURCES, OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY; WHERE LOCAL, STATE, OR FEDERAL OFFICIALS DETERMINE THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, A COPY OF ANY CORRESPONDENCE TO THAT EFFECT MUST BE RETAINED IN THE SWPPP;
- 12.2.3. WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP;
- 12.2.4. TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA;
- 12.2.5. WHEN THERE IS A CHANGE IN CHEMICAL TREATMENT METHODS INCLUDING: USE OF DIFFERENT TREATMENT CHEMICALS, DIFFERENT DOSAGE OR APPLICATION RATES OR A DIFFERENT AREA OF APPLICATION NOT SPECIFIED ON THE EPSC PLANS; OR
- 12.2.6. WHEN A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION)

12.3. MAKING PLANS ACCESSIBLE

- 12.3.1. CONTRACTOR WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF FINAL STABILIZATION. CONTRACTOR WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE. (6.2)
- 12.3.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE FINAL STABILIZATION CRITERIA, CONTRACTOR OR THEIR DESIGNEE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (3.3.3) (6.2.1):
 - 12.3.2.1. A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE NPDES PERMIT NUMBER FOR THE PROJECT;
 - 12.3.2.2. THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT;
 - 12.3.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND
 - 12.3.2.4. THE LOCATION OF THE SWPPP.
- 12.3.3. ALL INFORMATION DESCRIBED IN SECTION 10.3.2 MUST BE MAINTAINED IN LEGIBLE CONDITION. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE DUE TO SAFETY CONCERNS, THE NOTICE SHALL BE POSTED IN A LOCAL BUILDING. THE NOTICE MUST BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.

12.4. NOTICE OF TERMINATION (8.0)

- 12.4.1. WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED BY FINAL STABILIZATION, CONTRACTOR WILL SUBMIT A NOTICE OF TERMINATION (NOT) THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT TO THE LOCAL ENVIRONMENTAL FIELD OFFICE.

12.4.2. FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE NOT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE FOLLOWING:

- 12.4.2.1. ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN FINALLY STABILIZED; AND
- 12.4.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND
- 12.4.2.3. ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND
- 12.4.2.4. ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND
- 12.4.2.5. THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE; AND
- 12.4.2.6. TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE FINAL STABILIZATION IS MAINTAINED; AND
- 12.4.2.7. ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

12.5. RETENTION OF RECORDS (6.2)

THE PERMITTEE WILL RETAIN COPIES OF THE SWPPP, ALL REPORTS REQUIRED BY THE PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR THE PROJECT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THE NOT WAS FILED.

SWPPP

TENNESSEE DEPARTMENT OF TRANSPORTATION

SOUTH CHICKAMAUGA GREENWAY

YOUNGSTOWN ROAD CONNECTOR

HAMILTON COUNTY

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

S-4

FILE NO. 35531-10

\$DATE \$
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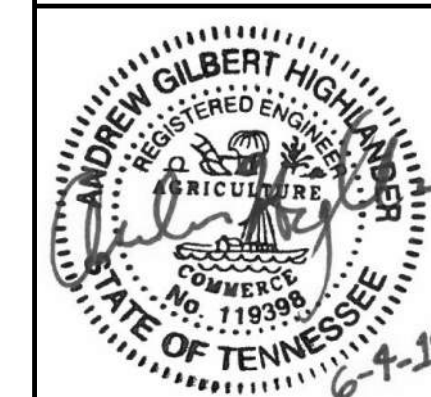
TYPE	YEAR	PROJECT NO.
CONST.	2019	TAP-9202(129)

LOCALLY MANAGED PROJECT
LOCALLY LET PROJECT

BARGE
WAGGONER
&
SUMNER
&
CANNON, INC.

BWSC

110 Market Street, Suite 200, Chattanooga, Tennessee 37402
PHONE (423) 756-3025 FAX (423) 756-8477



SWPPP

TENNESSEE DEPARTMENT OF TRANSPORTATION
SOUTH CHICKAMAUGA GREENWAY
YOUNGSTOWN ROAD CONNECTOR
HAMILTON COUNTY

REVISION INFORMATION

REV.	DR.	CHK.	DATE	DESCRIPTION
0	AGH	BCN	06-04-2019	ISSUED FOR BID

S-5

FILE NO. 35531-10

13. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (7.7.5)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED BY ME, OR UNDER MY DIRECTION OR SUPERVISION. THE SUBMITTED INFORMATION IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(A)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

John Bythe H. Bailey

AUTHORIZED PERSONNEL SIGNATURE (3.3.1)

JOHN BYTHE H. BAILEY

PRINTED NAME

ADMINISTRATOR

TITLE

1/9/2019

DATE

14. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (7.7.6)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TNR100000, AND THAT CERTAIN OF MY ACTIVITIES ON-SITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(A)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED OPERATOR (CONTRACTOR) SIGNATURE (3.3.1)

PRINTED NAME

TITLE

DATE

15. ENVIRONMENTAL PERMITS (9.0)

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT

ENVIRONMENTAL PERMITS			
PERMIT	YES OR NO	PERMIT OR TRACKING NO.	EXPIRATION DATE*
TDEC ARAP	NO		
CORPS OF ENGINEERS (COE)	YES	PENDING	
TVA 26A	YES	PENDING	
TDEC CGP	YES	PENDING	
OTHER:	N/A		

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\$TIME \$
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