

**CARBONDALE TREE BOARD**  
**September 16, 2021**  
**IN-PERSON/VIRTUAL MEETING**  
**Town Hall, Room 1**  
**6:00 P.M.**

**ATTENTION:** The Carbondale Tree Board Meeting will be conducted in person and virtually via Zoom. If you wish to attend the meeting virtually and you have a comment concerning one or more of the Agenda items please email [kmcdonald@carbondaleco.net](mailto:kmcdonald@carbondaleco.net) by 4:00 pm on October 21, 2021. If you would like to comment virtually during Persons Present Not on the Agenda please email [kmcdonald@carbondaleco.net](mailto:kmcdonald@carbondaleco.net) with your full name and email address by 4:00 pm on October 21, 2021.

**You may also watch a live streaming of the meeting on You Tube. Search Town of Carbondale Tree Board Meeting October 21, 2021. Please be aware that you will experience a 15-30 second delay.**

You are invited to a Zoom webinar.

When: Oct 21, 2021 06:00 PM Mountain Time (US and Canada)

Topic: Town of Carbondale Tree Board Meeting, October 21, 2021

Please click the link below to join the webinar:

<https://us06web.zoom.us/j/89237348117?pwd=eWsvMXRnOStHWXBuR3Y5M2h2cmJqQT09>

Passcode: 457522

Or One tap mobile :

US: +13462487799,,89237348117#,,,,\*457522# or +16699006833,,89237348117#,,,,\*457522#

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1 346 248 7799 or +1 669 900 6833 or +1 253 215 8782 or +1 312 626 6799 or +1 929 436

2866 or +1 301 715 8592

Webinar ID: 892 3734 8117

Passcode: 457522

International numbers available: <https://us06web.zoom.us/j/89237348117?pwd=eWsvMXRnOStHWXBuR3Y5M2h2cmJqQT09>

<b><u>TIME*</u></b>		<b><u>ITEM</u></b>	<b><u>DESIRED OUTCOME</u></b>
6:00	1.	Roll Call	
6:01	2.	Consent Agenda: Approval of September 2021 Meeting Minutes	ATTACHMENT A REVIEW & APPROVE
6:05	3.	Persons Present Not on the Agenda	
6:10	4.	Tree Ordinance	ATTACHMENT B REVIEW & APPROVE
6:25	5.	8 <sup>th</sup> Street sidewalk Improvements Plan Set	ATTACHMENT C REVIEW & APPROVE
6:50	6.	Michael's Tree Report	
7:00	7.	Adjourn	

\* Please note: times are approximate

**ORDINANCE NO. S-  
SERIES OF 2002**

**AN ORDINANCE OF THE BOARD OF TRUSTEES OF THE TOWN OF  
CARBONDALE, COLORADO, AMENDING IN ITS ENTIRETY  
CHAPTER 7.10 OF THE CARBONDALE MUNICIPAL CODE**

WHEREAS, the Board of Trustees of the Town of Carbondale, Colorado, has determined that it is appropriate to amend Carbondale Municipal Code Chapter 7.10 setting forth the policy of the Town of Carbondale regarding trees;

BE IT THEREFORE ORDAINED BY THE BOARD OF TRUSTEES OF THE TOWN OF CARBONDALE, COLORADO, that Chapter 7.10 of the Carbondale Municipal Code, Tree Policy, is hereby amended in its entirety as follows:

"7.10.010 Findings of Fact.

- A. Trees have a positive economic effect on the Town by enhancing property values and making the Town a more attractive place to visit and do business.
- B. Trees have a positive environmental effect on the Town by reducing air pollution, abating heat, noise and glare, mitigating drainage and erosion problems, providing shade for streets and parking areas, providing wildlife habitat, and moderating the local climate.
- C. Trees generally enhance the quality of life for residents of the Town.

7.10.020 Purpose.

- A. To provide generally for the protection of trees within the Town, to ensure proper planting and maintenance of trees in the public right-of-way and in Town parks, and to provide for the abatement of nuisance trees on public and private property;
- B. To develop a healthy urban forest and park system of diverse tree species to protect against potential pest and disease problems;
- C. To create a community with tree lined streets by requiring tree planting standards in new developments while upgrading and maintaining street trees in existing parks, neighborhoods and commercial or industrial areas;

7.10.030 Applicability. The Board of Trustees shall have exclusive power and authority over all trees, plants and shrubs located within street right-of-ways,

parks and public places of the Town, and over trees, plants and shrubs located on private property that constitute a nuisance as described herein.

7. 10.040 Administration. The Public Works Director is hereby appointed to administer and implement this ordinance.

7 010.050 Tree Board. The Board of Trustees has established a Tree Board, consisting of seven members and one alternate. The Tree Board shall serve in an advisory capacity to the Board of Trustees in all matters relating to trees within the town. Members of the board shall serve without compensation. The term of each board member shall be for two years, except that the term of two of the members appointed to the first board shall be for one year. In the event that a vacancy shall occur during the term of any member, his or her successor shall be appointed for the unexpired portion of the term.

7.10.060 Trees on Public Property

A. The Building Department shall require all building permit applicants to:

1. Submit a site plan including location of existing and proposed street trees, utilities and any tree to be removed in the public right-of-way.
2. Submit a protection plan or sign a copy of the Tree Protection Standards, indicating it has been read and will be followed.
3. Submit a plan showing location, size and type of all trees to be planted in the public right-of-way. Size of an existing tree is to be established by measuring the diameter of the tree trunk at 4'-6" above ground and 12" above the ground for proposed new trees.
4. Sign a copy of the Tree Maintenance Standards indicating that the standards have been read and will be followed.
5. Any changes to the landscape plan require approval from the Tree Board or by an administrative review by the Public Works Director.
6. All trees planted in public rights of way shall be trees listed in Recommended Street Tree list approved by Town Tree Board, as may be amended from time to time.

B. All trees planted on public property shall be planted according to a set of standards developed by the Tree Board. These standards are available from the Public Works Director or from any Tree Board Member. Trees not planted in accordance with the standards will be subject to removal. Landscaping for any new development within the Town associated with a land use application, which requires a landscape plan shall be reviewed by the Tree Board, and a recommendation made to Planning and Zoning Commission.

One hard copy and electronic copy of plans must be submitted to the Public Works Department ten working days prior to any regularly scheduled Tree Board meeting. **One set shall be full size. Subsequent sets may be at a smaller scale to fit on copier sized paper as long as they are legible.**

C. Except as provided herein, it shall be unlawful for any person to top a tree in or upon the public right-of-way or other public property within the Town. For purposes of this section, topping is defined as the sever cutting back of limbs to stubs larger than three inches in diameter within the tree's crown to such a degree as to remove the normal canopy and disfigure the tree. Trees severely damaged by storms or other causes, or trees which pose an imminent threat to property or to public safety such that other pruning practices are impractical may be exempted from this section at the discretion of the Public Works Director. No tree on public property shall be removed without written permission from the Public Works Director.

D. Whenever any work is being done contrary to the provisions of this section, the Public Works Director may order the work stopped by serving written notice on any persons engaged in the doing or causing such work to be done, and any such persons shall forthwith stop such work until authorized by the Public Works Director to proceed with the work.

E. During the construction of any structure or improvement, it shall be unlawful for any person to place material, machinery or soil deposits within a minimum of six feet of any tree on Town property. All trees on public property shall be protected during construction according to the Protection Standards developed by the Tree Board.

F. The Building Department shall maintain copies of the Tree list, Protection Standards, Maintenance Standards, and **Irrigation Standards** for public inspection.

#### 7.10.070 Trees on Private Property.

A. For purposes of this section, nuisance trees are defined as trees which pose a threat to public safety or adjacent public property, including but not limited to, public right-of-ways, or trees which harbor any destructive or communicable disease or other pestilence which endangers the well-being of other trees in the Town or which are capable of causing an epidemic spread of a communicable disease or insect infestation.

B. The Public Works Director or his duly appointed representative has the authority to enter onto private property whereon there is located a tree, shrub or plant that is suspected to be a public nuisance.

C. Upon the discovery of a nuisance tree, the Public Works Director shall cause written notice to be served upon the owner of the property upon which the tree is located, requiring the owner to eradicate, remove or otherwise control the condition within a reasonable time specified in such notice. It shall be unlawful for any person to fail to comply with the requirements of any notice given pursuant to this section within the time specified in such notice. If the notice to abate is not complied with within the required time, the Town may cause such nuisance to be abated, and shall assess the costs of such abatement against the property and shall notify the owner of the amount thereof. Such assessment shall be a lien upon the property until it is paid. In addition, the owner of the property upon which the nuisance was located shall be subject to prosecution.

#### 7.10.080 Standards for Tree Planting. Maintenance and Removal.

A. The Tree board shall develop and maintain a list of desirable trees for planting along streets and in parks in three size classes: small, medium and large. A list of trees not suitable for planting shall also be maintained.

B. The spacing of trees on Town property shall be in accordance with the size classes listed in this ordinance, and no trees shall be planted closer together than the following: small trees, 12-20 feet; medium trees, 25-35 feet; large trees, 35-45 feet; except in special plantings approved by the Public Works Director or his duly authorized representative. In any case, trees shall be spaced so those canopies at maturity shall not overlap.

C. No trees other than those species listed as small trees shall be planted on Town property under or within ten lateral feet of any overhead utility wire.

7.10.090 Penalties. Any person who violates any provision of this ordinance or who fails to comply with any notice issued pursuant to any provision of this ordinance, upon being found guilty of violation shall be subject to the penalties set forth in Section 1.16.010 for each offense. If, as the result of the violation of any provision of this ordinance, the injury, mutilation or death of a tree, shrub or other plant located on Town property is caused, the party in violation shall make restitution to the Town for the cost of repair or removal and replacement of such tree, shrub or other plant, whichever is necessary in the opinion of the Public Works Director, such restriction shall be in addition to any other penalty. The minimum replacement cost for a tree will equal the cost of a 2" caliper tree."

INTRODUCED, READ AND PASSED two day of \_\_\_\_\_, 2002.

THE TOWN OF CARBONDALE

By: /s/ Michael Hassig  
Michael Hassig, Mayor

ATTEST:

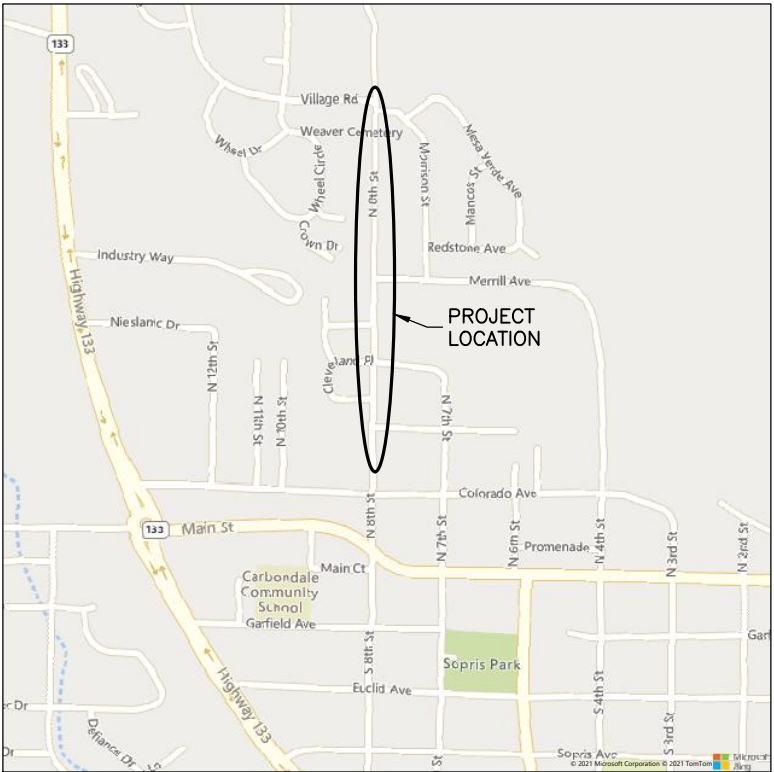
Marcia Walter  
Marcia Walter

# TOWN OF CARBONDALE

## 8TH STREET IMPROVEMENTS

PROJECT CONTACTS

PUBLIC WORKS	KEVIN SHORZMAN PUBLIC WORKS DIRECTOR (970) 510-1217
ENGINEER	ANTHONY ALFINI, PE ROARING FORK ENGINEERING (970) 340-4130
WATER & SEWER DEPT.	MARK O'MEARA (970) 510-1351
CARBONDALE & RURAL FIRE PROTECTION DISTRICT	ROB GOODWIN (970) 963-2491
HOLY CROSS ENERGY (ELECTRIC)	LIBBY COWLING (970) 945-5491
XCEL ENERGY (ELECTRIC & GAS)	SAM WAKEFIELD (970) 201-4860
BLACK HILLS ENERGY (GAS)	JASON COX (970) 309-2432
COMCAST	PHIL BURKE (720) 432-5101
CENTURYLINK	JASON SHARPE (970) 328-8290



VICINITY MAP  
1" = 1000'



90% SET

SEPTEMBER 2021

SHEET INDEX

1	COVER SHEET
2	LEGEND & ABBREVIATIONS
3-4	GENERAL NOTES
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7	DRAINAGE DETAILS & TABLES
8	RAISED CROSSWALK DETAILS
9-10	REMOVAL & RESET PLANS
11-14	ROADWAY PLANS
15-19	PLAN VIEW BLOWUPS
20-23	CURB & GUTTER PROFILES
24-25	EROSION & SEDIMENT CONTROL PLAN
26-28	CROSS SECTIONS



PROJECT DESCRIPTION:  
THE PROJECT INCLUDES THE INSTALLATION OF APPROXIMATELY 2400 LF OF CURB, GUTTER AND SIDEWALK; CURB EXTENSIONS; DRAINAGE STRUCTURES; AND OTHER STREET IMPROVEMENTS.

Computer File Information		Sheet Revisions					ROARING FORK ENGINEERING 592 HIGHWAY 133 CARBONDALE, CO 81623 PH: (970) 340-4130	PUBLIC WORKS DEPARTMENT 0756 HIGHWAY 133 CARBONDALE, CO 81623 PH: (970) 963-0620		8th St Improvements		Sheet Number:
Print Date: 9/22/21		Rev.	Date	Comments	Init.					Cover Sheet		1
Drawing File Name: 8th St_Admin.dwg		<input type="text" value="1"/>	09.22.21	90% Set	AWA							Of:
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Project No.: 2021-27		<input type="text"/>										

P:\2021\27-8TH ST IMPROVEMENTS\04-DWG\04-SHEETSET\8TH ST\_ADMIN.DWG Plotted: 9/22/2021 9:41 AM By: Anthony Afini

LEGEND

	EXISTING	PROPOSED
EASEMENT LINE	----	----
EDGE OF PAVEMENT	=====	=====
EDGE OF GRAVEL	=====	=====
EDGE OF WATER	-----x-----x-----x-----x-----	-----x-----x-----x-----x-----
FENCE LINE	-----x-----x-----x-----x-----	-----x-----x-----x-----x-----
FIBER OPTIC LINE	-----FO-----FO-----	-----FO-----FO-----
FLOW LINE	----->----->----->----->-----	----->----->----->----->-----
GAS LINE	-----G-----G-----	-----G-----G-----
MAJOR CONTOUR	-----9105-----	-----9105-----
MINOR CONTOUR	-----9104-----	-----9104-----
OVERHEAD ELECTRIC	-----E-----OH-----	-----E-----OH-----
OVERHEAD TELEPHONE	-----T-----OH-----	-----T-----OH-----
PROPERTY LINE	-----	-----
RIGHT-OF-WAY	-----	-----
SANITARY SEWER & SIZE	-----8"S-----8"S-----	-----8"S-----8"S-----
SANITARY SEWER SERVICE	-----SS-----SS-----	-----SS-----SS-----
STORM DRAIN PIPE	=====	=====
TBC/SIDEWALK/CONCRETE	=====	=====
UNDERGROUND ELECTRIC	-----E-----E-----	-----E-----E-----
UNDERGROUND TELEPHONE	-----T-----T-----	-----T-----T-----
UNDERGROUND CABLE TV	-----TV-----TV-----	-----TV-----TV-----
WATER LINE & SIZE	-----8"W-----8"W-----	-----8"W-----8"W-----
WATER SERVICE LINE	-----WS-----WS-----	-----WS-----WS-----
IRRIGATION LINE	-----IRR-----IRR-----	-----IRR-----IRR-----
RAW WATER LINE	-----RAW-----RAW-----	-----RAW-----RAW-----
CENTER LINE	-----	-----
LIMITS OF DISTURBED AREA	-----LDA-----LDA-----LDA-----	-----LDA-----LDA-----LDA-----

SYMBOL LEGEND

	EXISTING	PROPOSED
CABLE BOX		
CABLE RISER		
CURB STOP		
CURB INLET		
DECIDUOUS TREE		
ELECTRIC MANHOLE/ METER		
ELECTRIC TRANSFORMER		
ELECTRIC SWITCH GEAR		
ELECTRIC VAULT		
EVERGREEN TREE		
FIBER OPTIC RISER		
FIRE HYDRANT		
GAS METER		
GATE VALVE		
GUY ANCHOR		
MAILBOX		
MONUMENT MARKER		
POWER POLE		
SANITARY SEWER MANHOLE		
SOIL BORING LOCATION		
SIGN		
SPOT ELEVATION		
STORM DRAIN MANHOLE		
STREETLIGHT		
TELEPHONE MANHOLE		

ABBREVIATIONS

ABC	AGGREGATE BASE COURSE	MAX.	MAXIMUM
AP	ANGLE POINT	MH	MANHOLE
APPROX.	APPROXIMATE	MIN.	MINIMUM
ASPH.	ASPHALT	MSE	MECHANICALLY STABILIZED EARTH
BP	BEGINNING POINT	O/S	OFFSET
BTM	BOTTOM	PC	POINT OF CURVATURE
BW	BOTTOM OF WALL	PCC	POINT OF COMPOUND CURVE
C&G	CURB AND GUTTER	PRC	POINT OF REVERSE CURVE
CL	CENTER LINE	PGL	PROFILE GRADE LINE
CMP	CORRUGATED METAL PIPE	PNT.	POINT
CONC.	CONCRETE	PRC	POINT OF REVERSE CURVATURE
DW	DRIVEWAY	PROP.	PROPOSED
EB	EAST BOUND	PT	POINT OF TANGENCY
EG	EXISTING GRADE	PVC	POINT OF VERTICAL CURVATURE
EOG	EDGE OF GRAVEL	PVI	POINT OF VERTICAL INFLECTION
EL.	ELEVATION	PVMT.	PAVEMENT
ELEC.	ELECTRIC	R/R	REMOVE & REPLACE
EP	END POINT	R	RIGHT; RADIUS
EOA	EDGE OF ASPHALT	RAD.	RADIAL
EX.	EXISTING	RCP	REINFORCED CONCRETE PIPE
FG	FINISHED GRADE	REF.	REFERENCE
FL	FLOWLINE	ROW	RIGHT-OF-WAY
FT	FEET	SECT.	SECTION
GB	GRADE BREAK	SF	SQUARE FEET
GR	GUARDRAIL	SH.	SHEET
GRAV.	GRAVEL	SDMH	STORM DRAIN MANHOLE
HCL	HORIZONTAL CONTROL LINE	SSMH	SEWER MANHOLE
HDPE	HIGH DENSITY POLYETHYLENE	STA.	STATION
HP	HIGH POINT	SW	SIDEWALK
HMA	HOT MIX ASPHALT	SY	SQUARE YARD
IN	INCH	TBC	TOP BACK CURB
INV.	INVERT	TP	TOP OF PIPE
L	LEFT	TW	TOP OF WALL
LDA	LIMITS OF DISTURBED AREA	TYP.	TYPICAL
LF	LINEAR FEET	WB	WEST BOUND
LP	LOW POINT	VP	VALLEY PAN

HATCH LEGEND

ASPHALT DEMO	
CURB AND GUTTER DEMO	
ASPHALT MILL	
COLORED CONCRETE DEMO	
PROPOSED CONCRETE	
PROPOSED LANDSCAPING	
CURB RAMP DETECTABLE WARNING	
PROPOSED ASPHALT	

Computer File Information		Sheet Revisions			
Print Date: 9/22/21		Rev.	Date	Comments	Init.
Drawing File Name: 8th_St_Admin.dwg		1	09.22.21	90% Set	AWA
Project No.: 2021-27					



ROARING FORK  
ENGINEERING  
592 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 340-4130

PUBLIC WORKS  
DEPARTMENT  
0756 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 963-0620



8th St Improvements	
Legend & Abbr.	
Engineer: AWA	Drawn By: AWA

Sheet Number:  
2  
Of:  
28

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, TOWN OF CARBONDALE (TOWN) ENGINEERING STANDARDS, AND THE PLANS AND SPECIFICATION INCLUDED HEREIN.

2. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR’S EXPENSE. CONSTRUCTION ACTIVITIES INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF TRASH, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN ANY AREA NOT APPROVED BY THE TOWN.

3. ALL EXISTING ACCESSES SHALL REMAIN OPEN TO TRAFFIC THROUGHOUT CONSTRUCTION, WITH THE EXCEPTION OF MINOR CLOSURES OF LESS THAN FOUR HOURS. THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE ENGINEER FOR ALL MINOR CLOSURES PER THE TRAFFIC CONTROL PLAN.

4. CONTROL OF SURFACE RUNOFF AND REPAIR OF DAMAGES RESULTING FROM RUNOFF IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE COST TO CONTROL SURFACE RUNOFF OR REPAIR DAMAGES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

5. TEMPORARY CONSTRUCTION EASEMENTS MAY BE REQUIRED AND ARE TO BE COORDINATED WITH PROPERTY OWNER.

6. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE TOWN, OR THEIR ASSIGNED REPRESENTATIVE. THE TOWN AND THEIR ASSIGNED REPRESENTATIVES RESERVE THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DO NOT CONFORM TO THE PLANS AND SPECIFICATIONS LISTED HEREIN. REQUIRED QUALITY CERTIFICATIONS AND DOCUMENTATION SHALL BE SUBMITTED TO THE TOWN PRIOR TO PLACEMENT OR USE OF THE MATERIAL.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROJECT QUALITY CONTROL TESTING. THE TOWN WILL PROVIDE INDEPENDENT OWNER ACCEPTANCE TESTING. THE CONTRACTOR SHALL PROVIDE 24 HOUR NOTICE FOR ALL REQUIRED TESTS. REFER TO THE CDOT FIELD MATERIALS MANUAL FOR ADDITIONAL INFORMATION.

8. ANY SIGNAGE REMOVED DURING CONSTRUCTION THAT IS NOT SHOWN TO BE ON THE PLANS SHALL BE REPLACED OR RETURNED TO ITS ORIGINAL LOCATION.

9. THROUGHOUT ALL PHASES OF CONSTRUCTION THE CONTRACTOR MUST KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS.

10.THE CONTRACTOR SHALL ABATE DUST NUISANCE AS NECESSARY.

11.THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SURFACES THROUGHOUT THE PROJECT TO MAINTAIN VEHICULAR TRAFFIC AND PROVIDE SAFE PEDESTRIAN ACCESS. THE COST SHALL BE INCIDENTAL TO WORK.

12.CONSTRUCTION DE–WATERING IS TO BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR ALL ASSOCIATED PERMITTING.

13.IT SHALL BE THE CONTRACTOR’S RESPONSIBILITY TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

14.NO FIELD CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.

15.SUBMITTALS SHALL BE PREPARED FOR ALL MATERIALS TO BE INCORPORATED INTO THE PROJECT AND SENT TO THE ENGINEER FOR REVIEW AND APPROVAL.

16.THE PHYSICAL FEATURES WITHIN THE LIMITS OF THE PROJECT HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FEATURES SHOWN. THE CONTRACTOR SHALL REVIEW AND VERIFY EXISTING PHYSICAL FEATURES AND ELEVATIONS OF THE CONDITIONS TO BE ENCOUNTERED DURING CONSTRUCTION.

17.ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.

18.THE ENGINEER SHALL BE NOTIFIED WITHIN 48 HOUR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

19.THE CONTRACTOR SHALL PROTECT ALL TREES, BUSHES, AND EXISTING IMPROVEMENTS INSIDE AND OUTSIDE THE LIMITS OF WORK UNLESS SPECIFICALLY MARKED FOR REMOVAL OR REPLACEMENT. NO TREES SHALL BE REMOVED OR TRIMMED WITHOUT PRIOR ACKNOWLEDGEMENT OF THE PROPERTY OWNER AND/OR PROJECT ENGINEER. ALL APPLICABLE PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

20.THE PHYSICAL FEATURES REQUIRING REMOVAL OR OBLITERATION WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF OFF–SITE UNLESS OTHERWISE NOTED.

21.ANY DISCREPANCY WITHIN THESE PLANS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

22.THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS FROM DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION SHALL BE RESET AT THE CONTRACTOR’S EXPENSE. THE CONTRACTOR SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, AT HIS EXPENSE, ANY PROPERTY PINS REMOVED OR DESTROYED DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 629 OF THE SPECIFICATIONS.

23.SANITARY FACILITIES SHALL BE LOCATED ON SITE. SANITARY FACILITIES SHALL BE FULLY OPERATIONAL BEFORE CONSTRUCTION CAN BEGIN. SANITARY FACILITY PAY ITEM SHALL INCLUDE CLEANING A MINIMUM OF ONCE A WEEK.

24.THE CONTRACTOR SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS AND APPROVED CONSTRUCTION PLANS AND SPECIFICATION ON SITE AT ALL TIMES.

PERMITS:

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND DEVELOPING THE METHODS OF COMPLIANCE WITH THOSE PERMITS FOR ALL CONSTRUCTION ACTIVITIES ON THE PROJECT.

2. WORK ACTIVITIES SHALL ADHERE TO THE PERMANENT AND TEMPORARY LIMITS SHOWN ON THE PLANS SET, AS AUTHORIZED IN PERMITS, RIGHTS OF WAYS AND EASEMENTS ISSUED TO THE TOWN FOR THE PROJECT.

3. A COLORADO DISCHARGE PERMIT SYSTEM (CDPS) – STORMWATER CONSTRUCTION PERMIT WILL BE REQUIRED. THE CONTRACTOR SHALL NOT COMMENCE PERMIT–RELATED WORK UNTIL THE PERMIT IS RECEIVED. WORK PERFORMED MUST BE CONSISTENT WITH THAT DETAILED IN THE STORMWATER MANAGEMENT PLAN.

UTILITIES:

1. EXISTING UTILITY LOCATIONS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. EXISTING UTILITY LOCATIONS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION.

2. THE CONTRACTOR’S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE CDOT STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL COORDINATE WORK WITH UTILITY COMPANIES SO THAT NECESSARY RELOCATIONS CAN BE ACCOMPLISHED WITHOUT IMPACTING THE CONSTRUCTION SCHEDULE.

3. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS (“EXCAVATION REQUIREMENTS”) WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 1–800–922–1987, 72 HOURS IN ADVANCE OF START OF WORK TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER.

4. LOCATION AND NOTIFICATION OF BOTH UNCC MEMBER AND NON–MEMBER UTILITIES IS THE CONTRACTOR’S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS NECESSARY TO INSURE THE UTILITIES WILL NOT BE IMPACTED BY CONSTRUCTION ACTIVITIES.

5. IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT APPROPRIATE ACTION CAN BE TAKEN BY THE OWNER.

7. ALL UNDERGROUND UTILITY CONSTRUCTION SHALL BE COMPLETED AND ACCEPTED PRIOR TO PLACING PAVEMENT.

8. A LIST OF KNOWN UTILITIES WITH SERVICE WITHIN OR ADJACENT TO THE PROJECT AREA AND THEIR RESPECTIVE CONTACT INDIVIDUALS HAS PROVIDED ON THE COVER SHEET. ADDITIONAL UTILITIES MAY BE ENCOUNTERED WITHIN THE PROJECT LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL THE WORK BEING DONE BY ALL OF THE UTILITY COMPANIES WITHIN THE PROJECT AREA.

9. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED “QUALITY LEVELS” AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER’S DOCUMENT ASCE 38, “STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.” RELIANCE UPON THIS DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE CONTRACTOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.

10.UTILITY QUALITY LEVELS ARE GENERALLY DEFINED AS FOLLOWS. REFER TO ASCE 38 FOR FURTHER DEFINITION:

10.1. QUALITY LEVEL D (QLD) – INDICATES INFORMATION DERIVED FROM EXISTING RECORDS, UTILITY RECORD DRAWINGS, ONE–CALL MARKOUTS, AND ORAL RECOLLECTIONS.

10.2. QUALITY LEVEL C (QLC) – INDICATES INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE–GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING SUCH INFORMATION TO QLD INFORMATION.

10.3. QUALITY LEVEL B (QLB) – INDICATES INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

10.4. QUALITY LEVEL A (QLA) – INDICATES THE PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT (E.G., A TEST HOLE OR TEST PIT).

11.QUALITY LEVEL B IN COMPLIANCE WITH SB18–167 AND ASCE 38 WAS NOT ACHIEVED ON ALL UTILITIES DUE TO PROJECT TIMELINE AND OTHER CONSTRAINTS. ADDITIONAL SUBSURFACE UTILITY ENGINEERING MAY BE WARRANTED PRIOR TO CONSTRUCTION.

12.ALL WATER AND SEWER UTILITIES DEPICTED ON THE PLANS ARE SHOWN AT QUALITY LEVEL C. ELECTRIC LINES DEPICTED ON THE PLANS ARE SHOWN AT QUALITY LEVEL C. TELECOMMUNICATIONS (CABLE, INTERNET, PHONE, ETC.) LINES DEPICTED ON THE PLANS ARE SHOWN AT QUALITY LEVEL C. GAS DEPICTED ON THE PLANS IS SHOWN AT QUALITY LEVEL C. CULVERTS ARE DEPICTED AT QUALITY LEVEL B. OTHER UTILITIES MAY BE PRESENT WHICH WERE NOT IDENTIFIED THROUGH THE SUBSURFACE UTILITY INVESTIGATION PROCESS AND ARE NOT IDENTIFIED ON THE PLAN SET. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND FOR FULFILLING 811 REQUIREMENTS.

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8th St Improvements	
Notes (1)	
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EARTHWORK:

1. PROTECTIVE PLASTIC FENCE AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED BEFORE CONSTRUCTION AND GRADING OPERATIONS BEGIN. CONTRACTOR’S VEHICLES AND EQUIPMENT SHALL BE WASHED AND FREE OF SOIL AND DEBRIS CAPABLE OF TRANSPORTING NOXIOUS WEED SEEDS OR ROOTS FROM OTHER AREAS BEFORE BEING BROUGHT ON THE PROJECT SITE.
2. CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL TRASH AND DEBRIS WITHIN THE PROJECT LIMITS. ALL SURFACE OBJECTS, TREES, TREE STUMPS, ROOTS, BUSHES, LANDSCAPING AND OTHER PROTRUDING OBSTRUCTIONS WITHIN THE LIMITS OF CUTS AND FILLS SHALL BE CLEARED AND GRUBBED, INCLUDING MOWING AS REQUIRED. ALL OTHER TREES AND BUSHES SHALL BE PROTECTED.
3. THE CONTRACTOR SHALL FIELD VERIFY EXISTING PAVEMENT ELEVATIONS PRIOR TO COMMENCING REMOVAL, PLANING AND PAVING OPERATIONS. ANY DEVIATION OR DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. WHERE CUTTING OF ASPHALT PAVEMENT IS REQUIRED AS SHOWN IN THE PLANS, THE CUTTING SHALL BE DONE TO A NEAT WORK LINE WITH A SAW OR CUTTING WHEEL AS APPROVED BY THE ENGINEER.
5. ALL REMOVALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE INDICATED IN THE PLANS AND PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL MATERIALS. ALL EXCESS MATERIAL GENERATED WITHIN THE PROJECT LIMITS SHALL BE REMOVED FROM THE PROJECT SITE. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
6. IN THE EVENT THAT PROJECT PERSONNEL ENCOUNTER UNKNOWN SOIL AND/OR GROUNDWATER CONTAMINATION, CONSTRUCTION ACTIVITIES SHOULD CEASE IMMEDIATELY AND THE PROCEDURES OUTLINED IN THE CDOT STANDARD SPECIFICATIONS SECTION 250 SHALL BE FOLLOWED.
7. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE EARTHWORK ITEM. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATION SHALL BE AS DIRECTED BY THE ENGINEER. WATER TO BE PROVIDED BY CONTRACTOR.
8. TYPE OF COMPACTION FOR THIS PROJECT WILL BE:

FINE GRAINED SOILS – AASHTO T–99 (STANDARD PROCTOR)

COARSE GRAINED SOILS – AASHTO T–180 (MODIFIED PROCTOR)
9. WATER FOR COMPACTION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
- 10.MOISTURE–DENSITY CONTROL WILL BE REQUIRED FOR THE FULL DEPTH OF ALL EMBANKMENTS, AGGREGATE BASE COURSE (CLASS 2), AND AGGREGATE BASE COURSE (CLASS 6) ON THIS PROJECT: DEPTH OF MOISTURE–DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:

FULL DEPTH OF ALL EMBANKMENTS AND ENGINEERED FILLS

BASES OF CUTS AND FILL (6 INCHES)

FULL DEPTH OF EMBANKMENT SECTIONS USED FOR DITCHES AND CHANNEL CHANGES
- 11.ALL EMBANKMENT MATERIAL BELOW PAVED ROADWAY SHALL HAVE A MINIMUM R–VALUE OF 25 WITHIN THE TOP 24 INCHES OF OF SUBGRADE.
- 12.PROOF ROLLING OF THE SUBGRADE WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
- 13.EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE WORK.
- 14.THE THICKNESS OF TOPSOIL SHALL BE 4 INCHES AT LOCATIONS SHOWN IN THE PLANS. TOPSOIL IS REQUIRED AND SHALL BE GENERATED WITHIN THE PROJECT LIMITS FROM THE BEST AVAILABLE MATERIAL AS APPROVED BY THE ENGINEER. NO IMPORTATION OF TOPSOIL WILL BE ALLOWED. TOPSOIL SHALL BE STRIPPED AND STORED SEPARATELY DURING CONSTRUCTION ACTIVITIES IN LOCATIONS APPROVED BY THE ENGINEER. TOPSOIL SHALL BE PLACED ON AREAS TO BE RECLAIMED JUST PRIOR TO SOIL CONDITIONING, RESEEDING AND MULCHING TO MINIMIZE COMPACTION FROM CONSTRUCTION EQUIPMENT. APPROVED QUANTITIES OF STOCKPILED TOPSOIL WILL BE MEASURED AND PAID AS STOCKPILE TOPSOIL IN ACCORDANCE WITH SECTION 207. PLACEMENT OF STOCKPILED TOPSOIL WILL BE MEASURED AND PAID AS TOPSOIL IN ACCORDANCE WITH SECTION 207.
- 15.SOIL CONDITIONING (COMPOST) SHALL BE APPLIED TO AREAS TO BE RECLAIMED JUST PRIOR TO RESEEDING AND MULCHING.
- 16.ANY OPEN EXCAVATION LEFT UNATTENDED SHALL BE BARRICADED OR FENCED OFF BY THE CONTRACTOR.
- 17.ALL TEMPORARY EXCAVATION SUPPORT (SHORING) REQUIRED TO CONSTRUCT CERTAIN ELEMENTS OF THIS PROJECT WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT WILL BE INCIDENTAL TO THE COST OF THE ELEMENT CONSTRUCTED.
- 18.EQUIPMENT HOURS ESTIMATED FOR THIS PROJECT INCLUDE THE USE OF THE FOLLOWING EQUIPMENT OR AS OTHERWISE APPROVED BY THE PROJECT ENGINEER:

20 HRS ROLLING (CAPABLE OF DELIVERING 25,000 LBS OF CENTRIFUGAL FORCE)

20 HRS BLADING (130–145 HORSEPOWER RANGE)

20 HRS TRUCK (DUMP) (MINIMUM 10 CUBIC YARDS)

20 HRS COMBINATION LOADER (77–125 HORSEPOWER RANGE)

10 HRS HYDRAULIC EXCAVATOR

10 HRS SWEEPING

PAVEMENT:

1. THE CONTRACTOR SHALL SUBMIT A PAVING SEQUENCE SCHEDULE TO THE ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO BEGINNING THE PAVING OPERATION. PAVING SHALL NOT BEGIN UNTIL THE SCHEDULE HAS BEEN ACCEPTED IN WRITING BY THE ENGINEER.
2. IF DEEMED NECESSARY BY THE ENGINEER, THE CONTRACTOR SHALL SUBMIT HOT MIX ASPHALT LONGITUDINAL JOINT AND PAVEMENT MARKING PLAN PRIOR TO THE PRE–PAVING CONFERENCE PER CDOT STANDARD SPECIFICATIONS SECTION 401.
3. PAVING SHALL NOT BEGIN UNTIL THE ENGINEER HAS APPROVED THE SUBGRADE. THE PAVEMENT SUBGRADE SHALL BE PROOF ROLLED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF ANY PAVEMENT. AREAS THAT DEFORM UNDER HEAVY WHEEL LOADS AS DETERMINED BY THE ENGINEER ARE NOT STABLE AND SHALL BE REMOVED AND REPLACED TO ACHIEVE A STABLE SUBGRADE PRIOR TO PAVING. THE ENGINEER SHALL APPROVE THE TYPE AND WEIGHT OF THE VEHICLE TO BE USED FOR THE PROOF ROLL. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR NECESSARY FOR THE PROOF ROLL. PROOF ROLLING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK. APPROVED SUBGRADE SHALL HOLD APPROVAL FOR 24 HOURS. IF THE TIME HAS EXPIRED, CONTRACTOR MUST PROOF ROLL AGAIN.
4. FOR APPROXIMATE PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:

TACK COAT EMULSIFIED ASPHALT (SLOW–SETTING) @ 0.1 GAL/SQ. YD. (DILUTED)

BITUMINOUS PAVEMENT @ 147 LB/CU. FT.

AGGREGATE BASE COURSE (CLASS 2) @ 133 LB/CU. FT.

AGGREGATE BASE COURSE (CLASS 6) @ 136 LB/CU. FT.
5. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT (SLOW–SETTING) AND 1 PART WATER.
6. A TACK COAT OF EMULSIFIED ASPHALT (SLOW–SETTING) SHALL BE APPLIED AT THE FOLLOWING LOCATIONS: BEFORE PLACING NEW PAVEMENT OVER EXISTING PAVEMENT ALONG THE FACE OF ALL EXISTING PAVEMENT, AND ALL SURFACES AGAINST WHICH ASPHALT IS TO BE PLACED BETWEEN PAVEMENT COURSES.
7. THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVER: A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH SHORT SKI OR SHOE 500 FEET OF CONTROL LINE AND STAKES
8. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED TO THE FULL AVAILABLE WIDTH WITHIN EACH PHASE OF CONSTRUCTION BEFORE A SUCCEEDING LAYER IS PLACED.
9. WHERE NEW PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE USING A PAVEMENT–CUTTING SAW AS WELL AS A 2 INCH MILL & OVERLAY FOR 2 FEET PAST THE SAWCUT OR OTHER METHOD AS APPROVED BY THE ENGINEER.
- 10.PRIOR TO PLACING TACK COAT OR BITUMINOUS PAVEMENT, THE PAVED SURFACE SHALL BE CLEAN. SWEEPING OR OTHER CLEANING METHODS MAY BE REQUIRED AND WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK. SWEEPING SHALL BE DONE WITH A PICKUP BROOM OR OTHER EQUIVALENT DEVICE.
- 11.ALL PATTERNS FOR CONCRETE PAVEMENT, MEDIANS, AND ISLANDS SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO PLACEMENT.
- 12.CONTRACTOR TO PROTECT CONCRETE VALLEY PANS AND CURB & GUTTER WHILE PAVING. ANY DAMAGE DONE TO VALLEY PANS OR CURB & GUTTER DURING PAVING WILL BE PAID FOR BY THE CONTRACTOR.

MISCELLANOUS:

1. COLD WEATHER CONCRETING OPERATIONS SHOULD BE ANTICIPATED FOR THIS PROJECT. THESE OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS SECTIONS 601 AND 203. THIS COST SHALL BE INCLUDED IN THE WORK.
2. SEVERITY OF POTENTIAL SULFATE EXPOSURE ON THIS PROJECT IS CLASS 0 WHERE ELEMENTS ARE IN DIRECT CONTACT WITH SOIL. ALL PRECAST AND CAST IN PLACE CONCRETE SHALL MEET THE REQUIREMENTS SPECIFIED IN SECTION 601, 624, AND 701.
3. ALL SURVEYING NECESSARY TO COMPLETE THE WORK SHALL BE DONE BY THE CONTRACTOR. THIS WORK WILL BE PAID FOR AS ITEM 625, CONSTRUCTION SURVEYING, LUMP SUM.
4. CONSTRUCTION TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CDOT M&S STANDARDS. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A METHOD OF HANDLING TRAFFIC (MHT) TO THE ENGINEER FOR METHOD OF HANDLING TRAFFIC (MHT) TO THE ENGINEER FOR APPROVAL FOR EACH APPLICABLE PHASE OF WORK.
5. THE CONTRACTOR SHALL DETERMINE WHERE TO STOCKPILE MATERIAL AND STORE EQUIPMENT FOR THE PROJECT. TRAFFIC CONTROL MEASURES REQUIRED TO ACCOMMODATE MATERIAL AND EQUIPMENT STORAGE SHALL BE INCLUDED IN THE MHT.
6. ALL WATER, ELECTRICITY OR OTHER UTILITIES REQUIRED TO COMPLETE THE WORK WILL BE PAID FOR BY THE CONTRACTOR.
7. CONTRACTOR SHALL PROVIDE AS–BUILT DRAWINGS AT END OF THE PROJECT.
8. ESTIMATES FOR OTHER ITEMS NOT TABULATED IN THE PLANS ARE AS FOLLOWS:

LABORER 40 HOURS

SANITARY FACILITY 1 EACH

MOBILIZATION 1 LUMP SUM

POTHOLING 20 HOURS
9. CURB RAMP DETECTABLE WARNINGS SHALL BE CAST IRON. DETECTABLE WARNING PRODUCT SHALL BE ON CDOT APPROVED PRODUCTS LIST AND APPROVED BY ENGINEER.
- 10.LANE STRIPING SHALL BE MODIFIED EPOXY PAVEMENT MARKING. CROSSWALK, STOP LINES AND OTHER MARKING SYMBOLS SHALL BE PREFORMED PLASTIC PAVEMENT MARKING (TYPE III).

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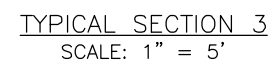
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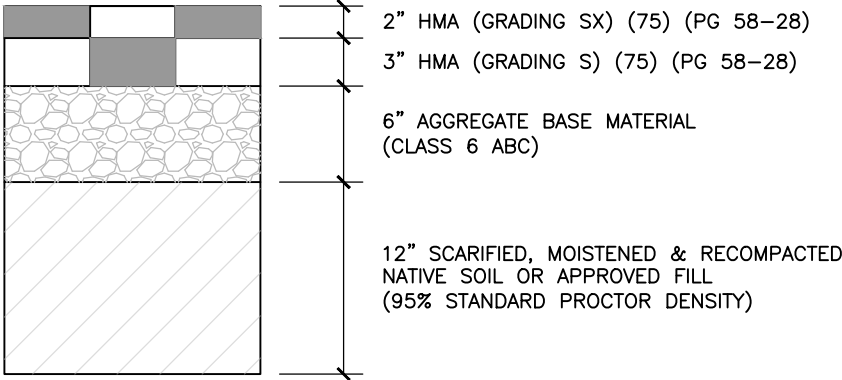


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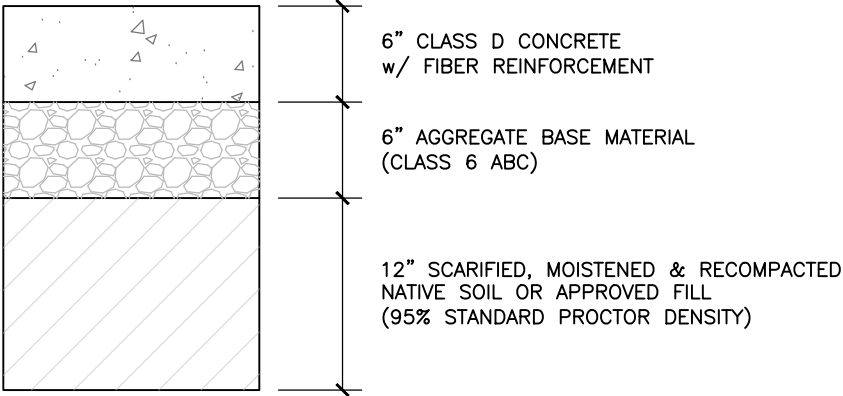
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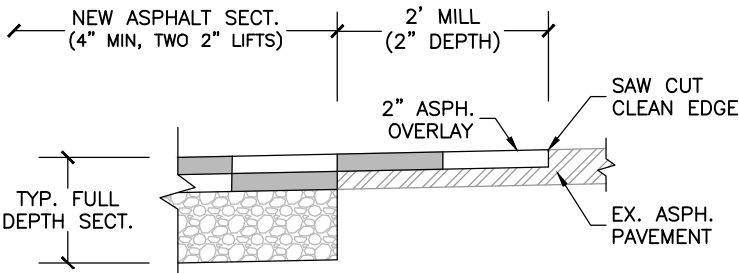
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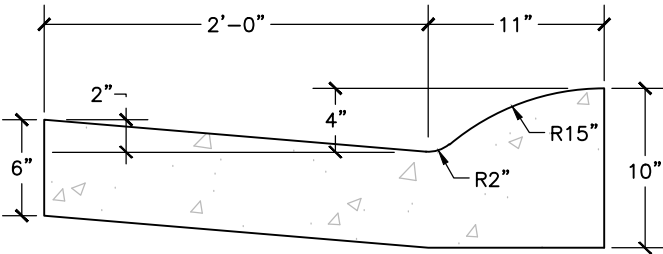
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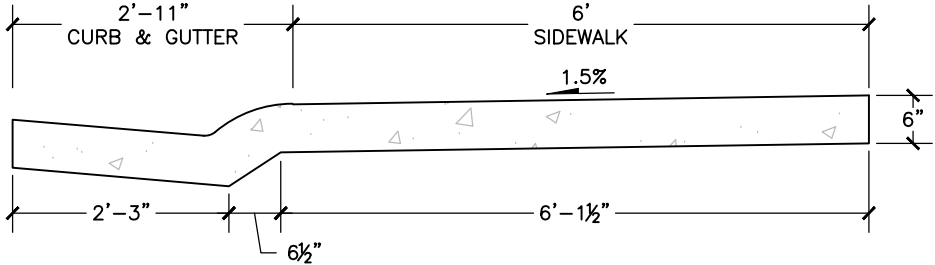
TYPICAL CONCRETE PAVEMENT SECTION  
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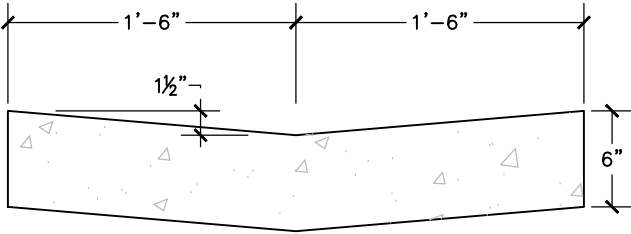
PAVEMENT JOINT DETAIL  
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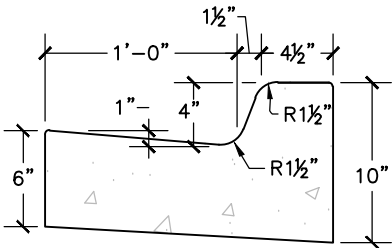
4" MOUNTABLE CURB & GUTTER  
SCALE: NTS



CURB, GUTTER & SIDEWALK  
(POURED MONOLITHICALLY)  
SCALE: NTS

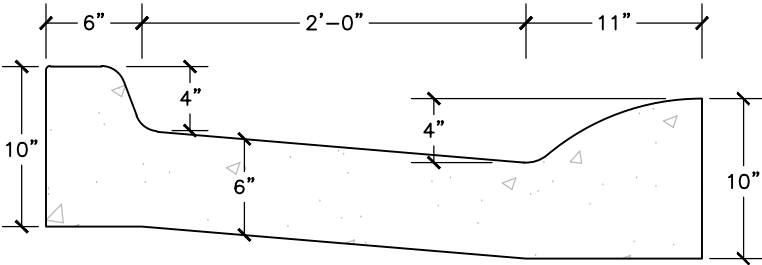


VALLEY PAN  
SCALE: NTS



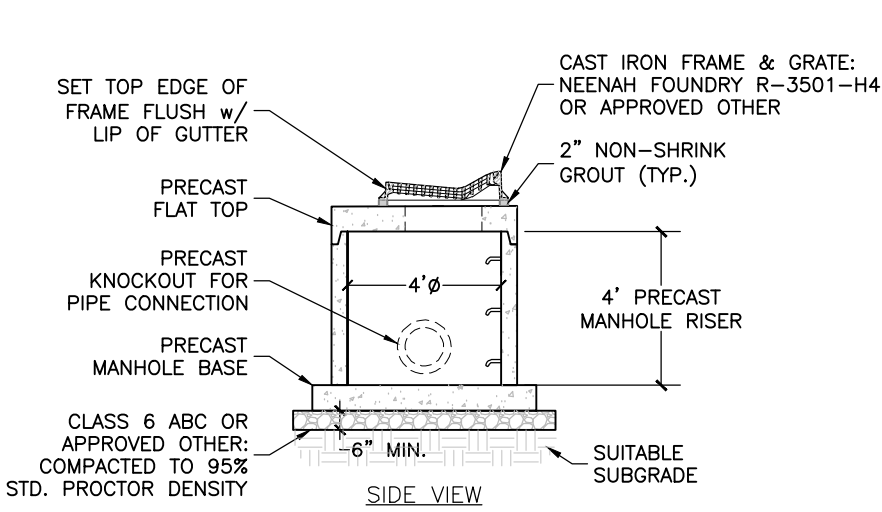
4" BARRIER CURB & GUTTER  
SCALE: NTS

- CURB, GUTTER & SIDEWALK NOTES:**
1. FOR CURB AND GUTTER INSTALLATION, CONSTRUCT FLOW LINE AS SHOWN ON PROFILES AND MATCH LIP OF GUTTER WITH EXISTING EDGE OF PAVEMENT. VARY THE SLOPE OF THE GUTTER PAN AS REQUIRED.
  2. IF SIDEWALK AND CURB & GUTTER ARE NOT POURED MONOLITHICALLY, EXPANSION JOINT MATERIAL SHALL BE PROVIDED BETWEEN THE SIDEWALK AND BACK OF CURB.
  3. EXPANSION JOINTS SHALL BE INSTALLED EVERY 100 FEET AND AT ALL RADII POINTS.
  4. EXPANSION JOINT MATERIAL SHALL BE 1/2" THICK AND SHALL EXTEND THE FULL DEPTH OF THE CONTACT SURFACE.
  5. CONTRACTION JOINTS SHALL BE 1" DEEP AND 1/8" TO 1/4" WIDE AT INTERVALS EQUAL TO THE SIDEWALK WIDTH.
  6. A 1/4" RADIUS SHALL BE USED ON ALL EDGES UNLESS SHOWN OTHERWISE.



INTERNAL PINCH POINT  
CURB & GUTTER  
SCALE: NTS

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Print Date: 9/22/21		Rev.	Date	Comments	Init.					Engineer: AWA	Drawn By: AWA	
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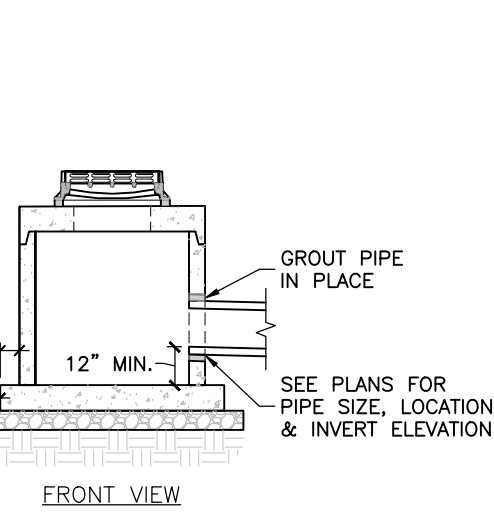


CURB INLET  
SCALE: NTS

NOTES:

1. STATION/OFFSET REFERENCE POINT IS CENTER FLOW LINE OF GRATE.
2. SET GRATE TO MATCH THE GRADE OF THE ROAD WITH NON-SHRINK GROUT.
3. MANHOLE SECTIONS TO CONFORM TO CDOT STANDARD PLAN M-604-20.
4. PIPES ENDS ARE TO BE TRIMMED FLUSH WITH THE INTERIOR WALLS OF THE BOX.
5. USE A 5 FOOT TRANSITION LENGTH TO MATCH CURB AND GUTTER HEIGHT AND WIDTH ON EACH SIDE OF INLET.
6. PROVIDE A CONTRACTION JOINT ON EACH SIDE OF THE INLET, EXTENDING PERPENDICULAR ACROSS THE CURB AND SIDEWALK.

STRUCTURE TABLE – INLETS					
INLET NO.	TYPE	STA.	O/S	RIM EL.	SUMP
#1	CURB INLET	11+86.06	18.00'L	6167.32	6162.82
#2	CURB INLET	11+86.06	18.00'R	6167.17	6162.67
#3	CURB INLET	13+17.92	18.00'L	6165.97	6161.47
#4	CURB INLET	13+17.92	18.00'R	6165.90	6161.40
#5	CURB INLET	14+75.95	18.00'L	6164.40	6159.90
#6	CURB INLET	14+75.95	18.00'R	6164.33	6159.83
#7	CURB INLET	16+33.99	18.00'L	6162.84	6158.34
#8	CURB INLET	16+33.99	18.00'R	6162.67	6158.17
#9	CURB INLET	17+92.03	18.00'L	6161.10	6156.60
#10	CURB INLET	17+92.03	18.00'R	6161.04	6156.54
#11	CURB INLET	19+50.07	18.00'L	6159.46	6154.96
#12	CURB INLET	19+50.07	18.00'R	6159.37	6154.87
#13	CURB INLET	20+70.91	18.00'R	6158.00	6153.50
#14	CURB INLET	21+12.51	18.00'L	6157.62	6153.12
#15	CDOT TYPE 13	21+75.77	18.94'L	6157.39	6152.89



STORMWATER DRYWELL  
SCALE: NTS

NOTES:

1. MANHOLE SECTIONS TO CONFORM TO CDOT STANDARD PLAN M-604-20.
2. STATION/OFFSET REFERENCE POINT IS CENTER OF MANHOLE.

PIPE TABLE							
NAME	LENGTH	SIZE	MATERIAL	END STRUCT.	INV. IN	START STRUCT.	INV. OUT
PIPE 1	2.36'	12"	HDPE	DRYWELL #1	6163.79	INLET #1	6163.82
PIPE 2	2.34'	12"	HDPE	DRYWELL #2	6163.64	INLET #2	6163.67
PIPE 3	2.35'	12"	HDPE	DRYWELL #3	6162.44	INLET #3	6162.47
PIPE 4	2.35'	12"	HDPE	DRYWELL #4	6162.37	INLET #4	6162.40
PIPE 5	2.35'	12"	HDPE	DRYWELL #5	6160.87	INLET #5	6160.90
PIPE 6	2.35'	12"	HDPE	DRYWELL #6	6160.80	INLET #6	6160.83
PIPE 7	2.35'	12"	HDPE	DRYWELL #7	6159.31	INLET #7	6159.34
PIPE 8	2.35'	12"	HDPE	DRYWELL #8	6159.14	INLET #8	6159.17
PIPE 9	2.35'	12"	HDPE	DRYWELL #9	6157.57	INLET #9	6157.60
PIPE 10	2.35'	12"	HDPE	DRYWELL #10	6157.51	INLET #10	6157.54
PIPE 11	2.35'	12"	HDPE	DRYWELL #11	6155.93	INLET #11	6155.96
PIPE 12	2.35'	12"	HDPE	DRYWELL #12	6155.84	INLET #12	6155.87
PIPE 13	2.35'	12"	HDPE	DRYWELL #13	6154.47	INLET #13	6154.50
PIPE 14	2.35'	12"	HDPE	DRYWELL #14	6154.09	INLET #14	6154.12
PIPE 15	4.85'	12"	HDPE	DRYWELL #15	6153.86	INLET #15	6153.89

STRUCTURE TABLE – DRYWELLS					
NO.	DIAMETER	STA.	O/S	RIM EL.	SUMP
#1	5.0'	11+91.66	21.92'L	6167.64	6158.14
#2	5.0'	11+91.66	21.92'R	6167.48	6157.98
#3	5.0'	13+23.52	21.92'L	6166.32	6156.82
#4	5.0'	13+23.52	21.92'R	6166.23	6156.73
#5	5.0'	14+81.55	21.92'L	6164.70	6155.20
#6	5.0'	14+81.55	21.91'R	6164.65	6155.15
#7	5.0'	16+39.59	21.92'L	6163.17	6153.67
#8	5.0'	16+39.59	21.92'R	6160.69	6151.19
#9	5.0'	17+97.63	21.92'L	6161.40	6151.90
#10	5.0'	17+97.63	21.91'R	6161.35	6151.85
#11	5.0'	19+55.67	21.92'L	6159.77	6150.27
#12	5.0'	19+55.67	21.92'R	6159.68	6150.18
#13	5.0'	20+76.51	21.92'R	6158.24	6148.74
#14	5.0'	21+18.11	21.92'L	6157.96	6148.46
#15	5.0'	21+77.50	28.12'L	6157.87	6148.37

P:\2021\27-8TH ST IMPROVEMENTS\04-DWG\04-SHEETSET\8TH ST DETAILS.DWG Plotted: 9/22/2021 9:42 AM By: Anthony Afini

Computer File Information	
Print Date: 9/22/21	
Drawing File Name: 8th St_Details.dwg	
Project No.: 2021-27	

Sheet Revisions			
Rev.	Date	Comments	Init.
1	09.22.21	90% Set	AWA



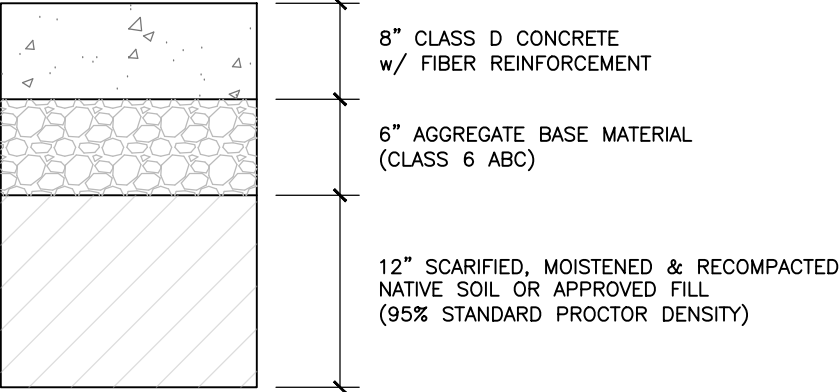
ROARING FORK  
ENGINEERING  
592 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 340-4130

PUBLIC WORKS  
DEPARTMENT  
0756 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 963-0620

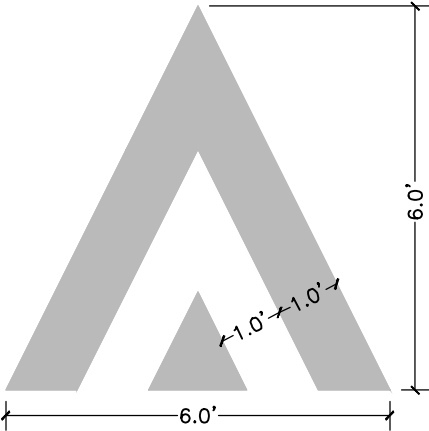


8th St Improvements Drainage Details & Tables	
Engineer: AWA	Drawn By: AWA

Sheet Number:  
7  
Of:  
28



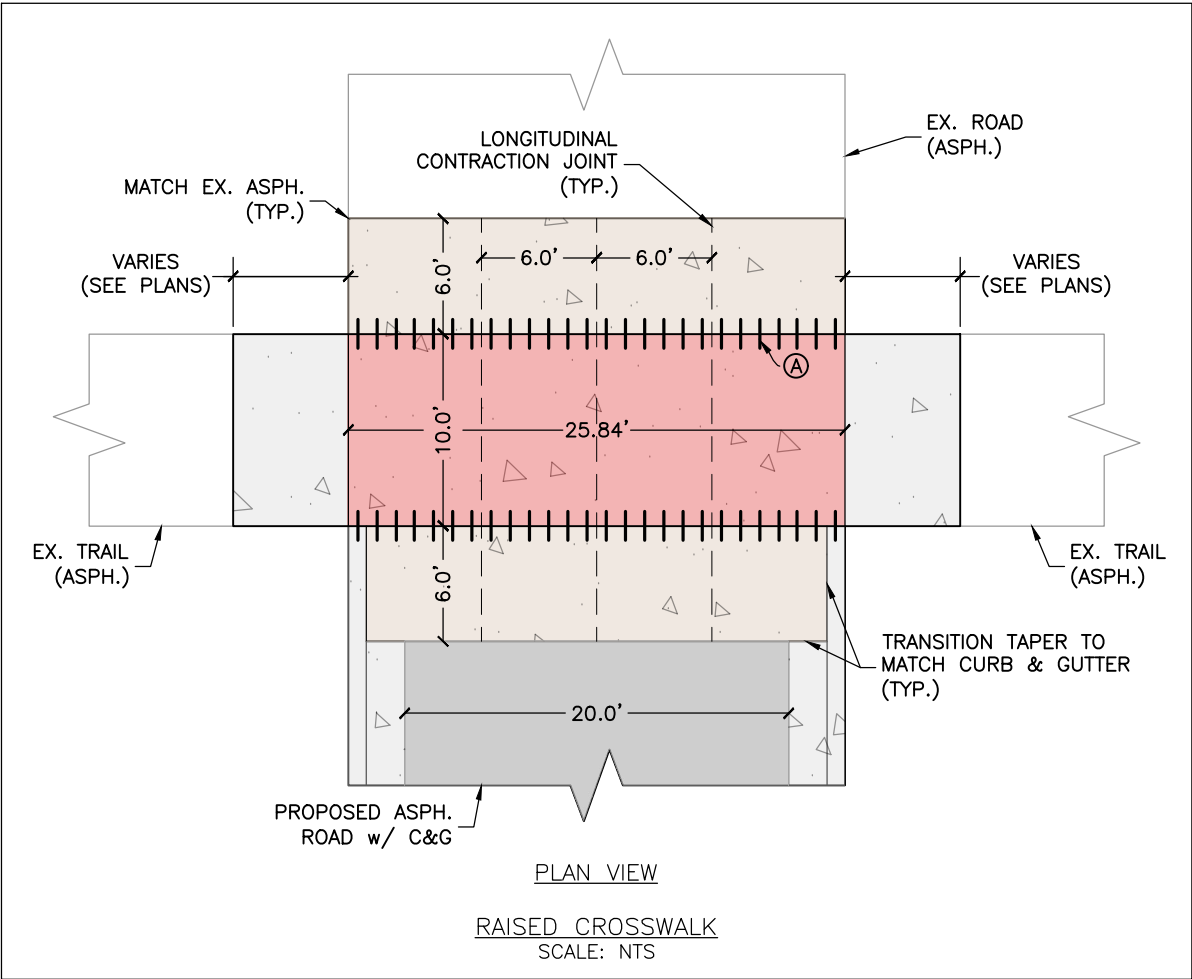
TYPICAL RAISED CROSSWALK PAVEMENT SECTION  
SCALE: NTS



DIRECTION OF TRAVEL

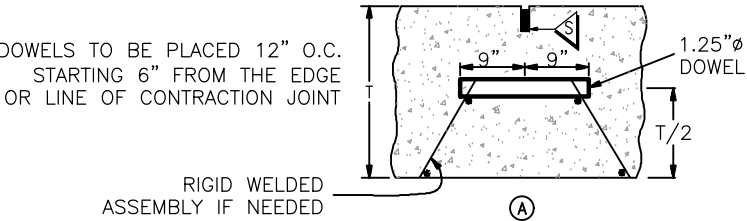
PAVEMENT MARKING FOR RAISED CROSSWALK  
SCALE: NTS

- NOTES:
- 1. PAVEMENT MARKING TO BE PLACED ON THE CENTERLINE OF TRAVEL LANE WITH THE TOP POINT AT THE EDGE OF THE BRICK RED 150 COLORED CONCRETE CROSSWALK.
  - 2. PAVEMENT MARKING SHALL BE PERFORMED PLASTIC PAVEMENT MARKING (TYPE III) OR APPROVED OTHERD.

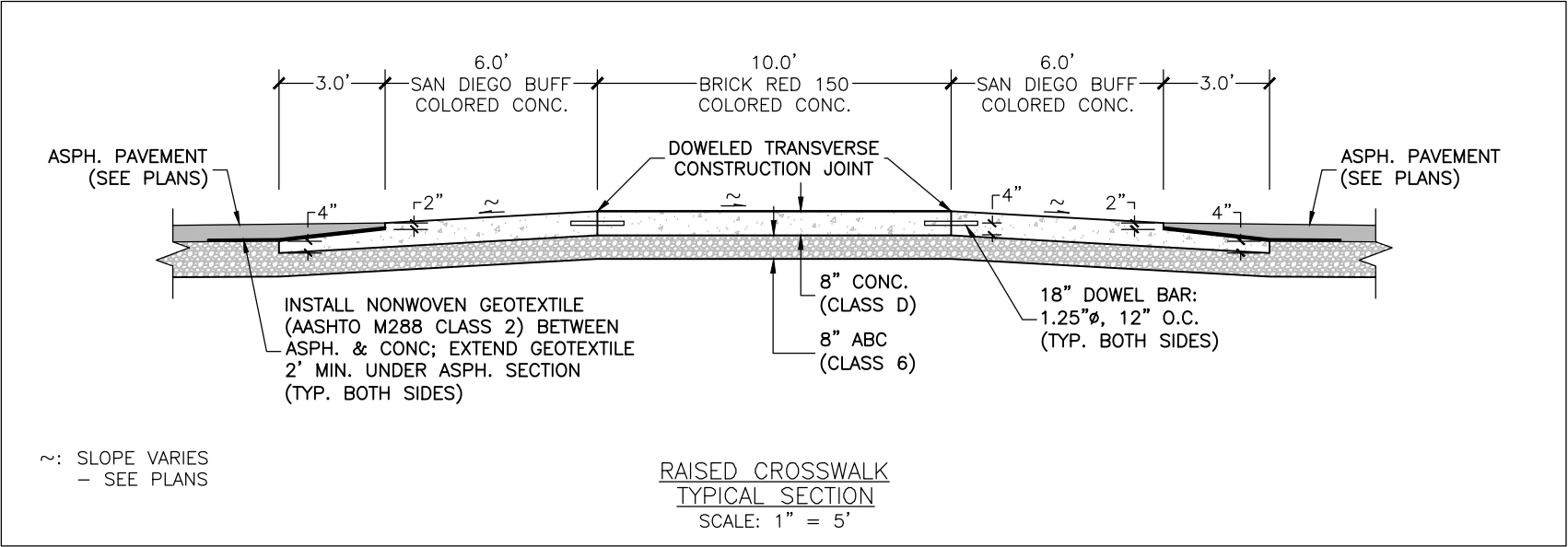
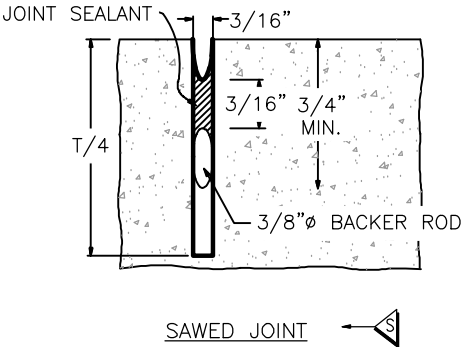


PLAN VIEW  
RAISED CROSSWALK  
SCALE: NTS

- NOTES:
- 1. DOWELS TO BE EPOXY COATED.
  - 2. DOWELS TO BE GREASED PRIOR TO SECOND CONCRETE POUR.
  - 3. AFTER COLORED CONCRETE HAS CURED, TWO COATS OF WATER REPELLING SEALANT SHALL BE APPLIED TO THE CONCRETE SURFACES.



DOWELED TRANSVERSE CONSTRUCTION JOINT



RAISED CROSSWALK TYPICAL SECTION  
SCALE: 1" = 5'

P:\2021\27-8TH ST IMPROVEMENTS\04-DWG\04-SHEETSET\8TH ST\_DETAILS.DWG Plotted: 9/22/2021 9:42 AM By: Anthony Alfiri

Computer File Information	
Print Date: 9/22/21	
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Project No.: 2021-27	

Sheet Revisions			
Rev.	Date	Comments	Init.
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ROARING FORK  
ENGINEERING  
592 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 340-4130

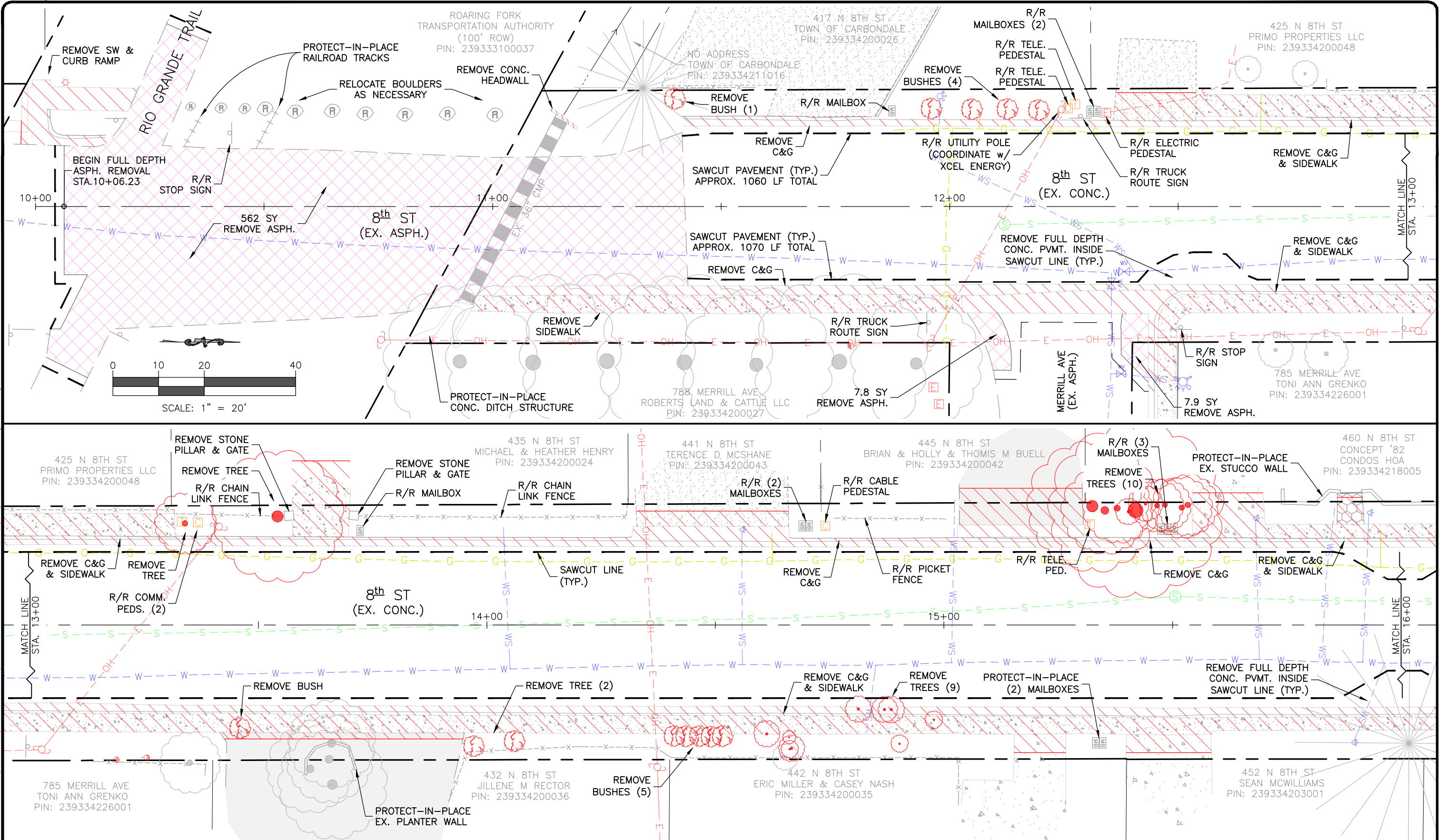
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DEPARTMENT  
0756 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 963-0620



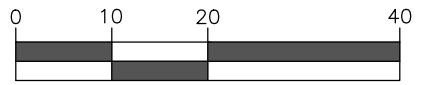
8th St Improvements	
Raised Crosswalk Details	
Engineer: AWA	Drawn By: AWA

Sheet Number:  
8  
Of:  
28

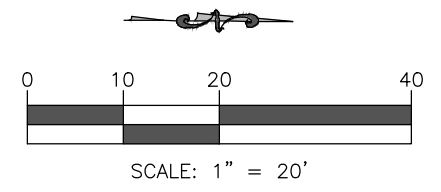
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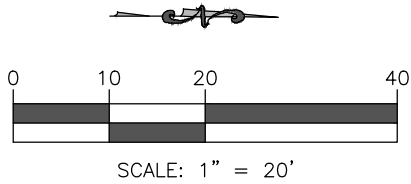
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Print Date: 9/22/21	Drawing File Name: 8th St Removals.dwg	Rev.	Date	Comments	Init.				Engineer: AWA	Drawn By: AWA	
Project No.: 2021-27		1	09.22.21	90% Set	AWA						



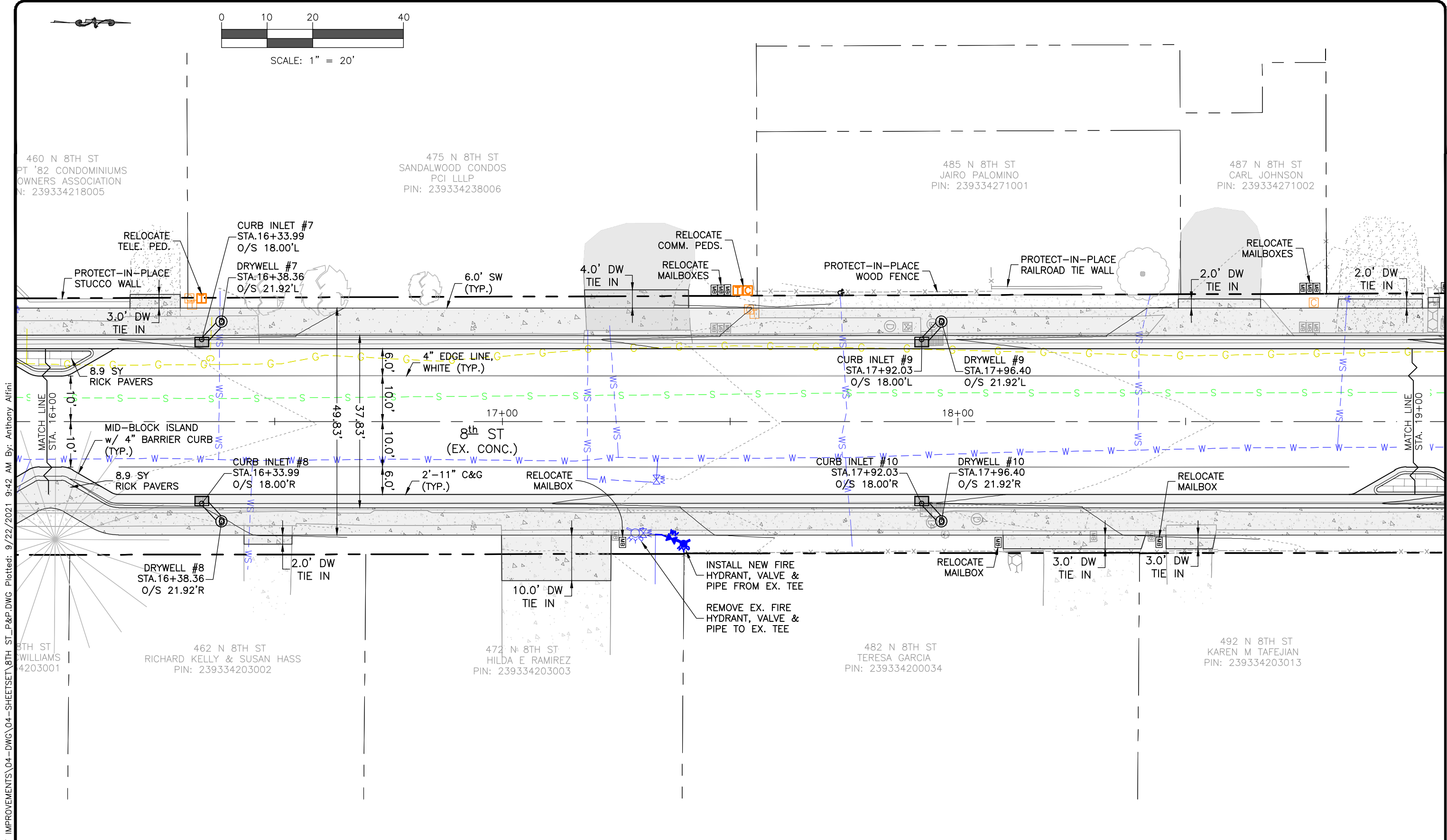
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Print Date: 9/22/21	Rev.	Date	Comments	Init.	Plan (1) Sta. 10+00 to 13+00				11		
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Project No.: 2021-27											

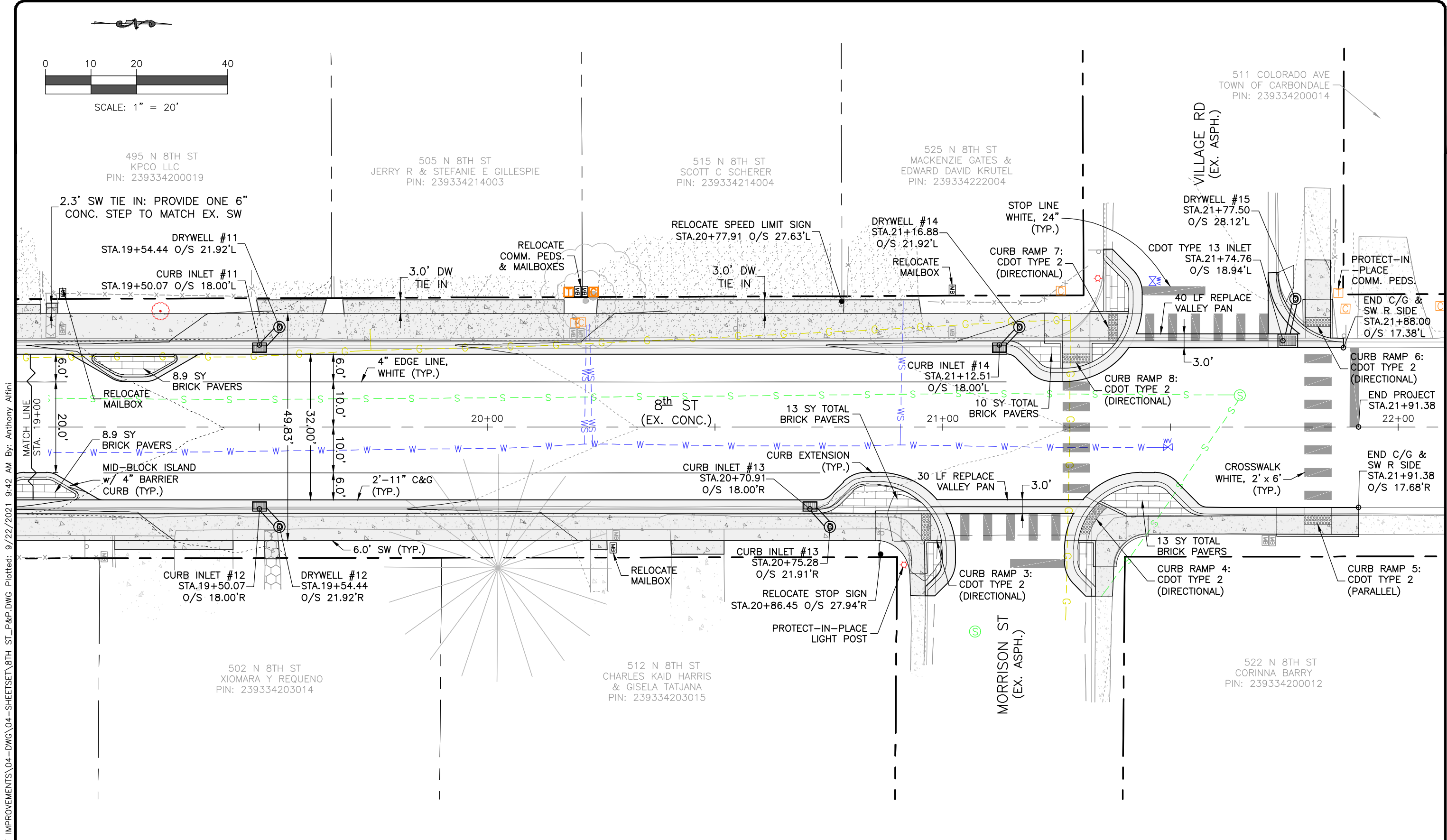


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Computer File Information		Sheet Revisions					ROARING FORK ENGINEERING 592 HIGHWAY 133 CARBONDALE, CO 81623 PH: (970) 340-4130	PUBLIC WORKS DEPARTMENT 0756 HIGHWAY 133 CARBONDALE, CO 81623 PH: (970) 963-0620		8th St Improvements Plan (3) Sta. 16+00 to 19+00		Sheet Number:
Print Date: 9/22/21		Rev.	Date	Comments	Init.							13
Drawing File Name: 8th St_P&P.dwg		1	09.22.21	90% Set	AWA							Of:
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Project No.: 2021-27												
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Computer File Information

Print Date: 9/22/21

Drawing File Name: 8th St\_P&P.dwg

Project No.: 2021-27

Sheet Revisions

Rev.	Date	Comments	Init.
1	09.22.21	90% Set	AWA

ROARING FORK ENGINEERING

592 HIGHWAY 133

CARBONDALE, CO 81623

PH: (970) 340-4130

PUBLIC WORKS DEPARTMENT

0756 HIGHWAY 133

CARBONDALE, CO 81623

PH: (970) 963-0620

TOWN OF CARBONDALE

ESTABLISHED 1887

8th St Improvements

Plan (4) Sta. 19+00 to 22+00

Engineer: AWA

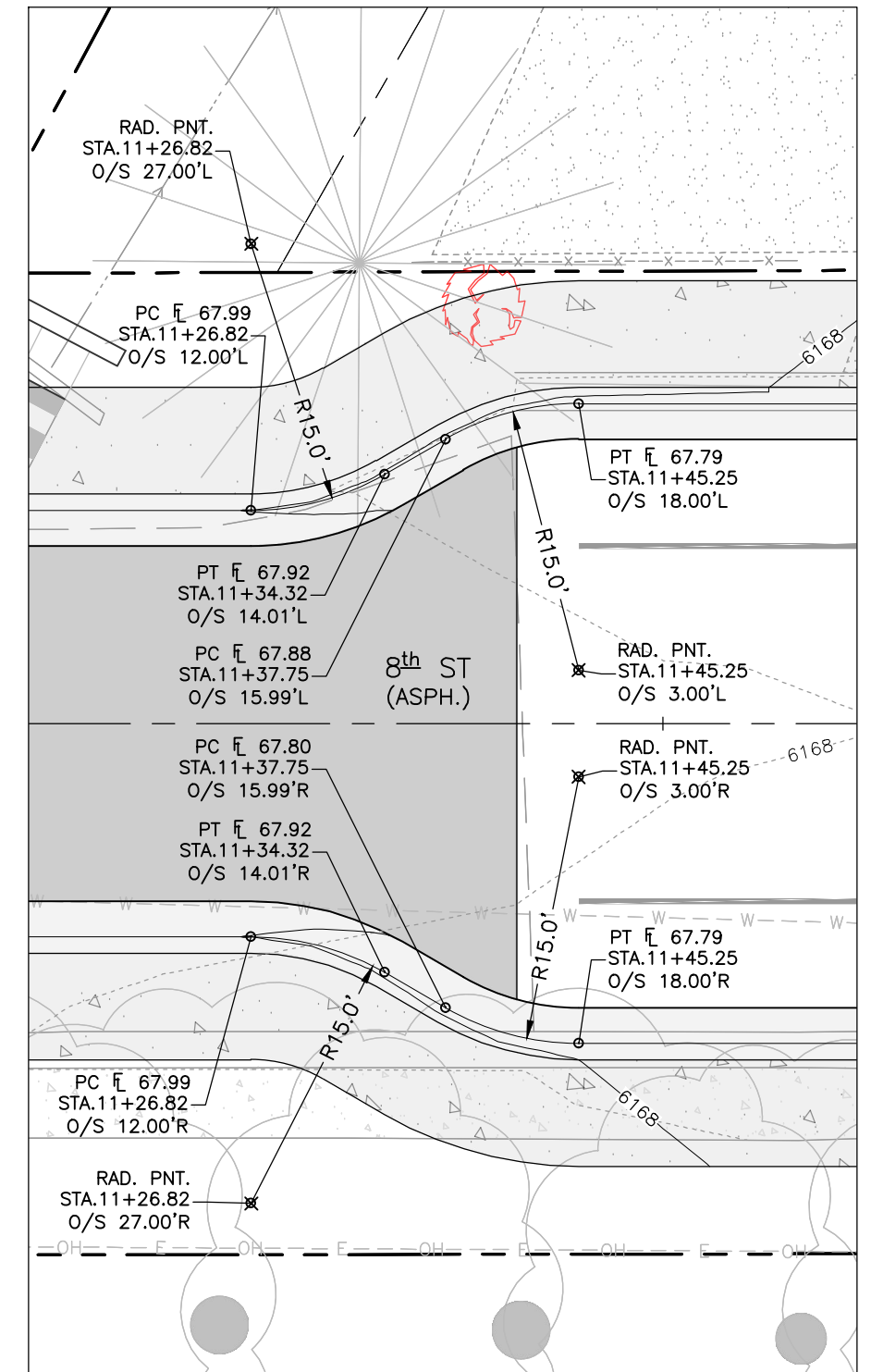
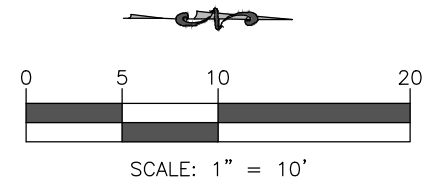
Drawn By: AWA

Sheet Number:

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Of:

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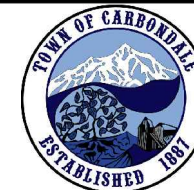
RAISED CROSSWALK & TRAIL  
TIE INS BLOWUP  
SCALE: 1" = 10'

Computer File Information		Sheet Revisions			
Print Date: 9/22/21	Rev.	Date	Comments		Init.
	1	09.22.21	90% Set		AWA
Drawing File Name: 8th St_Blowups.dwg					
Project No.: 2021-27					



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DEPARTMENT**  
0756 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 963-0620



8th St Improvements  
Plan View Blowups (1)

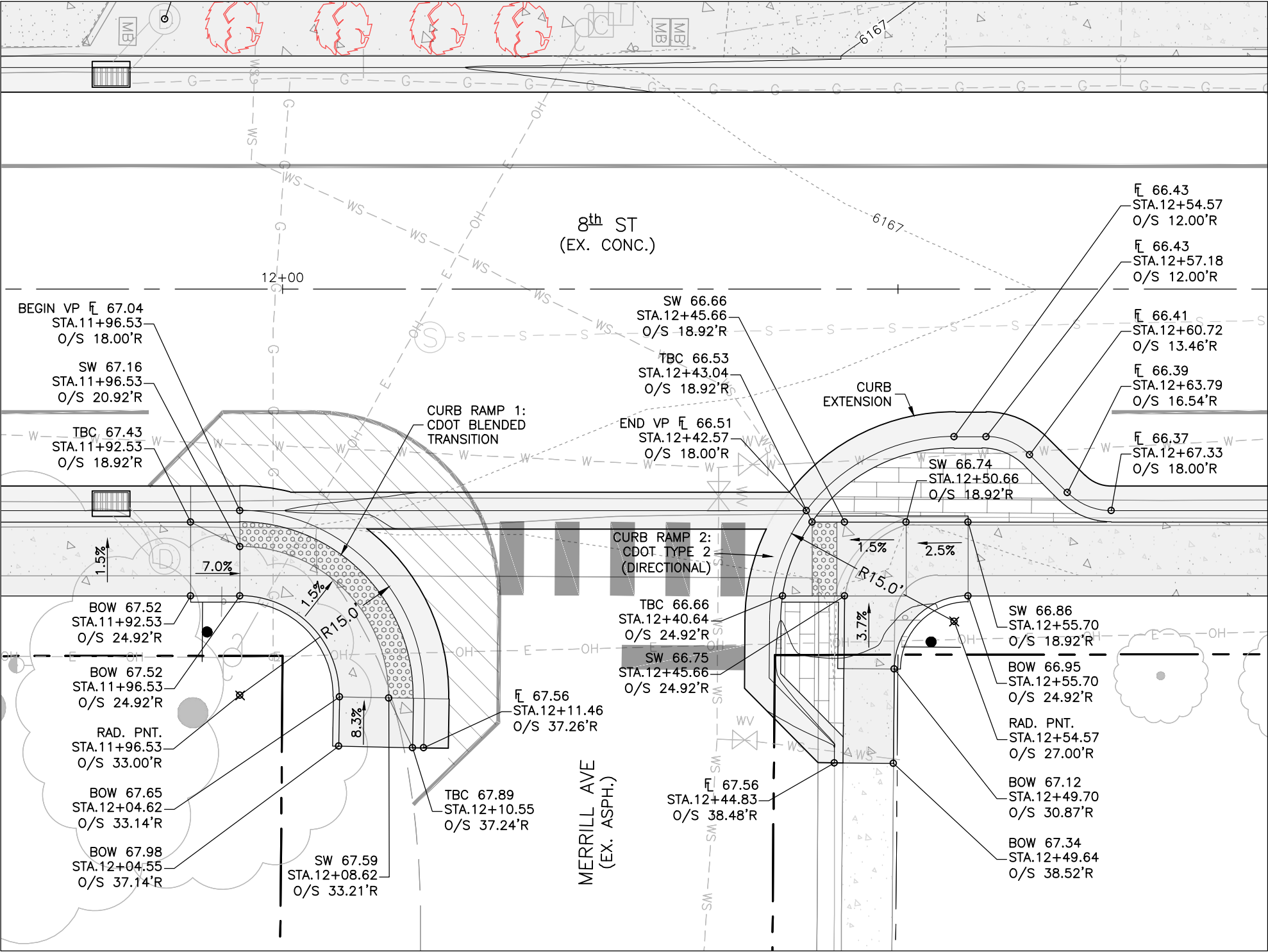
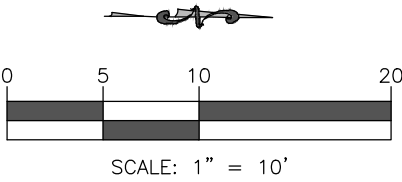
Engineer: AWA

Drawn By: AWA
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Sheet Number:

15

Of:  
28



MERRILL AVE INTERSECTION BLOWUP  
SCALE: 1" = 10'

P:\2021\27-8TH ST IMPROVEMENTS\04-DWG\04-SHEETSET\8TH ST\_BLOWUPS.DWG Plotted: 9/22/2021 9:43 AM By: Anthony Alfani

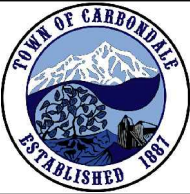
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Sheet Revisions			
Rev.	Date	Comments	Init.
1	09.22.21	90% Set	AWA



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592 HIGHWAY 133  
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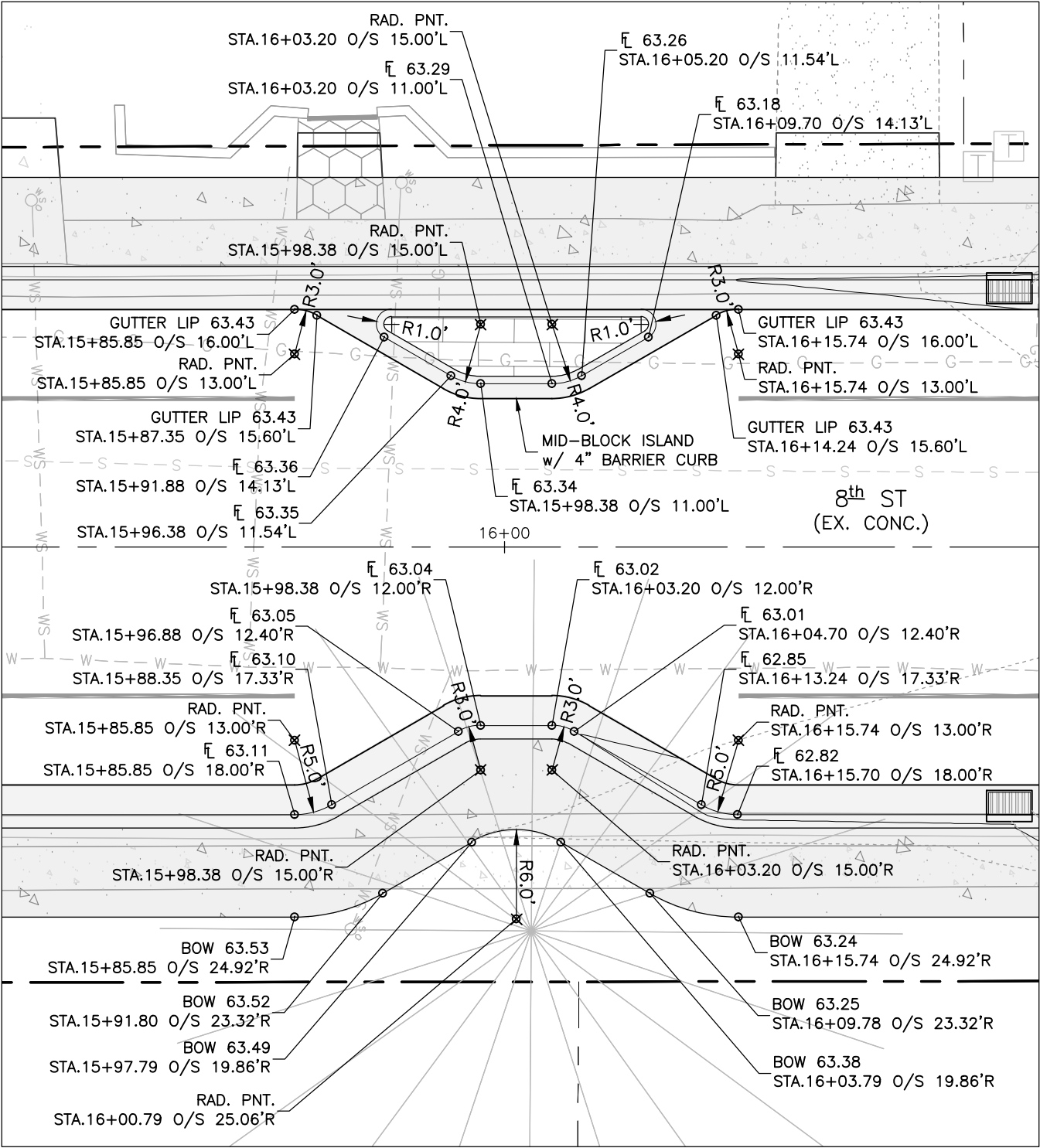
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DEPARTMENT**  
0756 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 963-0620



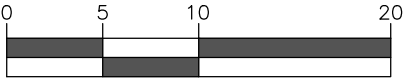
8th St Improvements Plan View Blowups (2)	
Engineer: AWA	Drawn By: AWA

Sheet Number:  
**16**  
Of:  
28

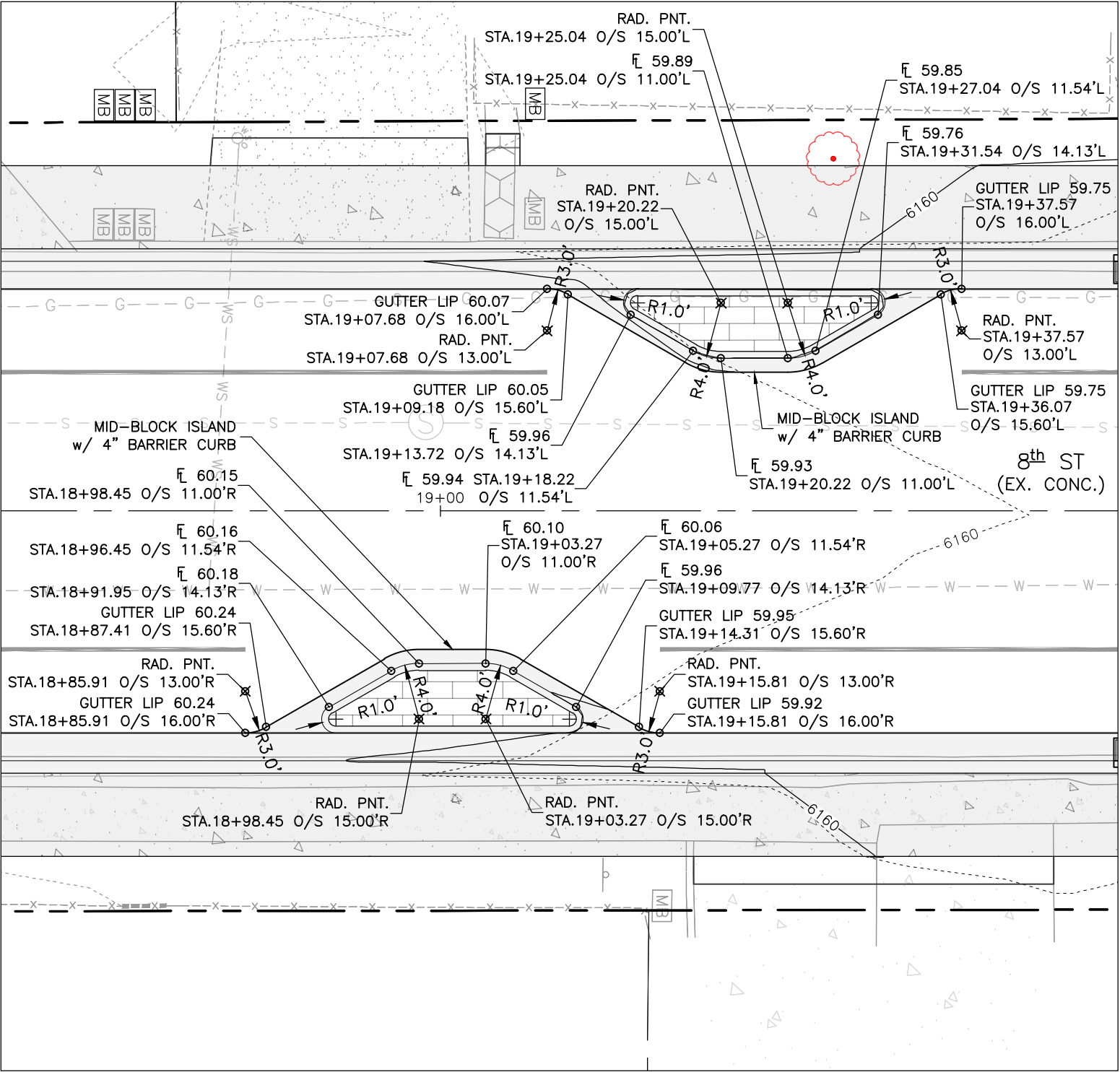
P:\2021\27-8TH ST IMPROVEMENTS\04-DWG\04-SHEETSET\8TH ST\_BLOWUPS.DWG Plotted: 9/22/2021 9:43 AM By: Anthony Afini



MID-BLOCK ISLAND BLOWUP 1  
SCALE: 1" = 10'



SCALE: 1" = 10'

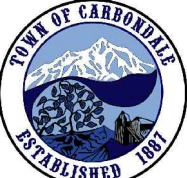


MID-BLOCK ISLAND BLOWUP 2  
SCALE: 1" = 10'



ROARING FORK  
ENGINEERING  
592 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 340-4130

PUBLIC WORKS  
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0756 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 963-0620

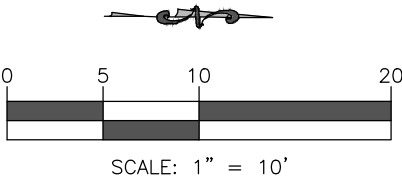


8th St Improvements  
Plan View Blowups (3)

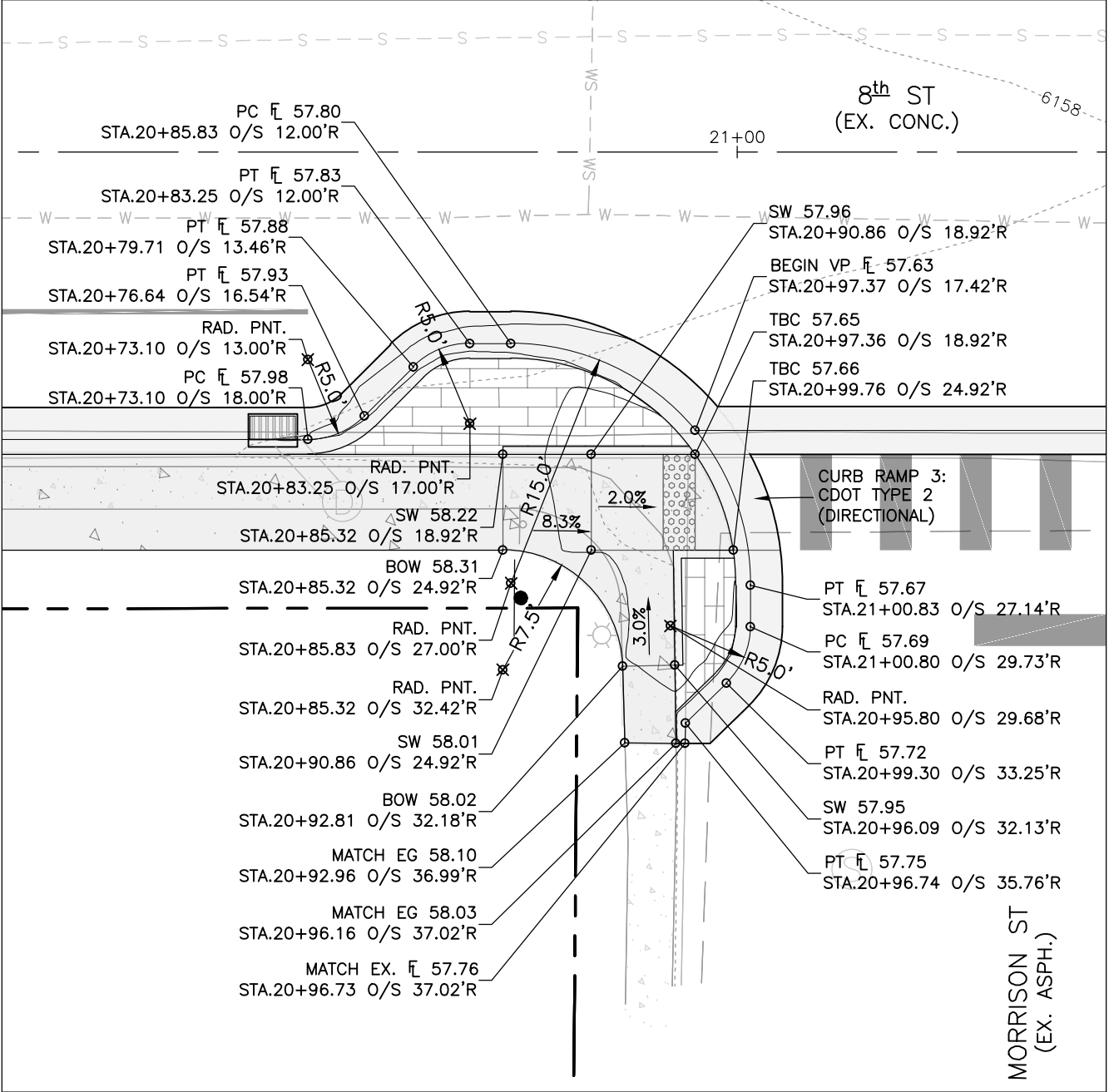
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Drawn By: AWA

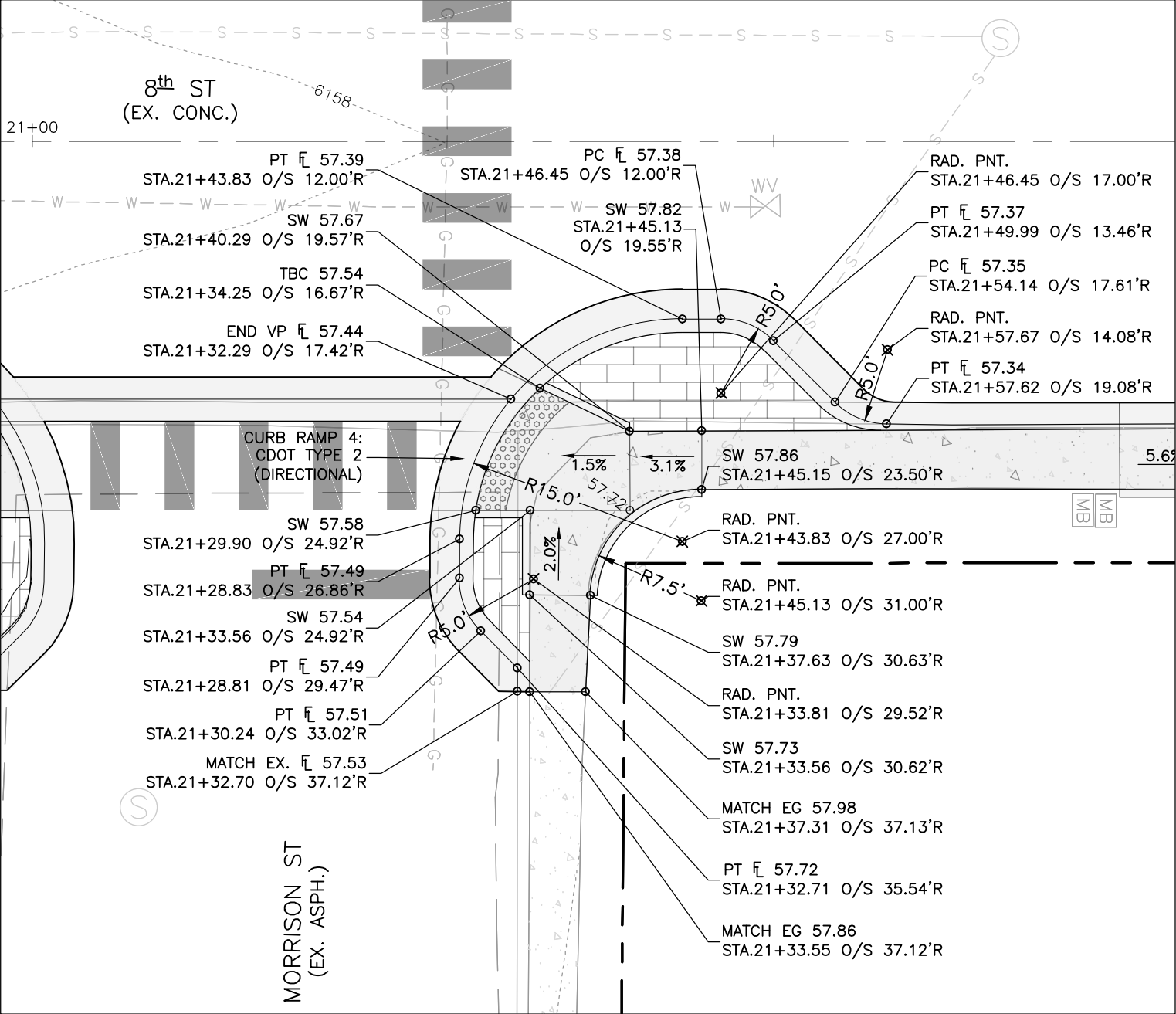
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17  
Of:  
28



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MORRISON ST BLOWUP 1  
SE INTERSECTION CORNER  
SCALE: 1" = 10'



MORRISON ST BLOWUP 2  
NE INTERSECTION CORNER  
SCALE: 1" = 10'

Computer File Information	
Print Date: 9/22/21	
Drawing File Name: 8th_St_Blowups.dwg	
Project No.: 2021-27	

Sheet Revisions			
Rev.	Date	Comments	Init.
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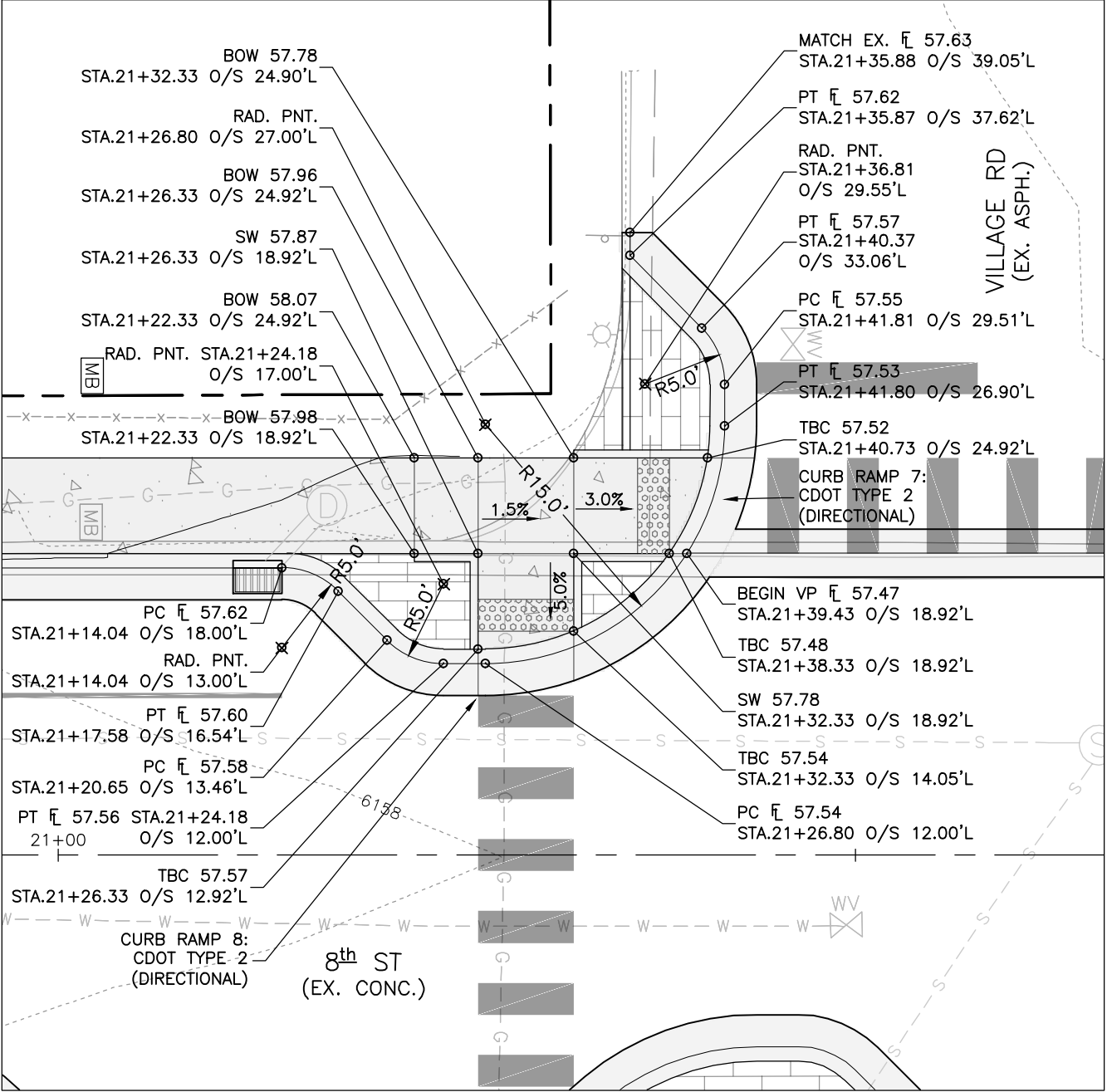
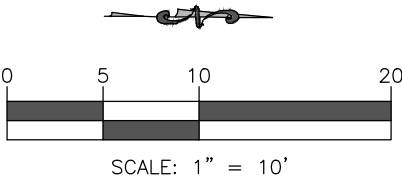
ROARING FORK  
ENGINEERING  
592 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 340-4130

PUBLIC WORKS  
DEPARTMENT  
0756 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 963-0620

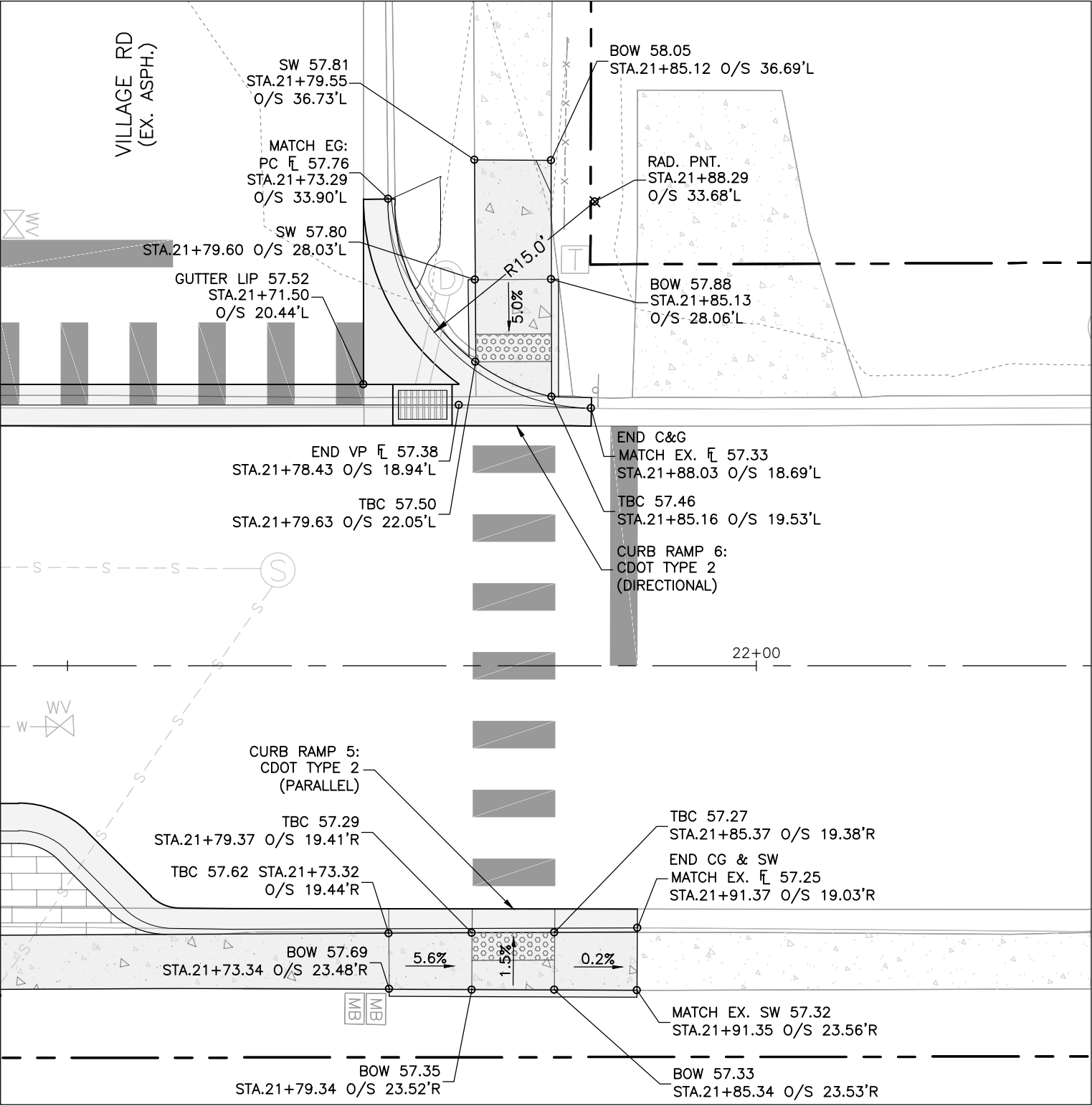


8th St Improvements Plan View Blowups (4)	
Engineer: AWA	Drawn By: AWA

Sheet Number:  
**18**  
Of:  
28



VILLAGE RD BLOWUP 1  
SW INTERSECTION CORNER  
SCALE: 1" = 10'



VILLAGE RD BLOWUP 2  
NW & NE INTERSECTION CORNERS  
SCALE: 1" = 10'

P:\2021\27-8TH ST IMPROVEMENTS\04-DWG\04-SHEETSET\8TH ST\_BLOWUPS.DWG Plotted: 9/22/2021 9:43 AM By: Anthony Alfini

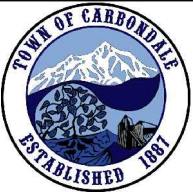
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DEPARTMENT  
0756 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 963-0620

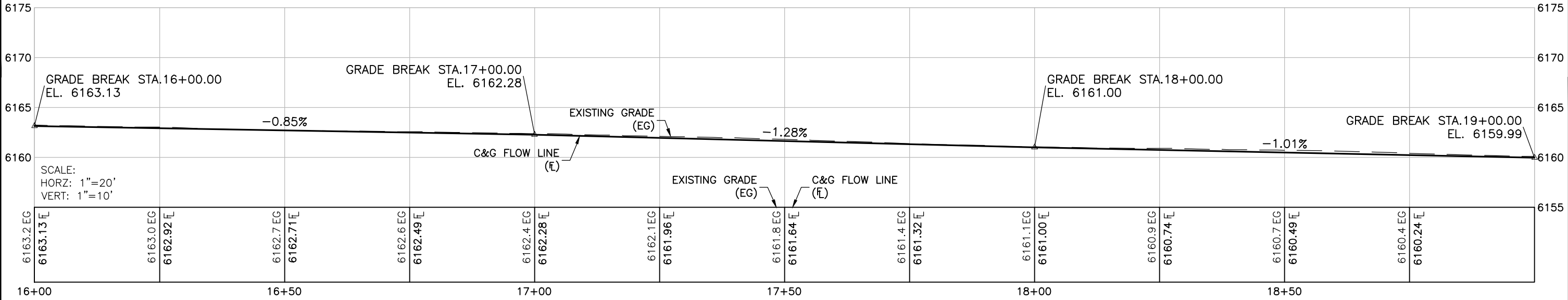


8th St Improvements Plan View Blowups (5)	
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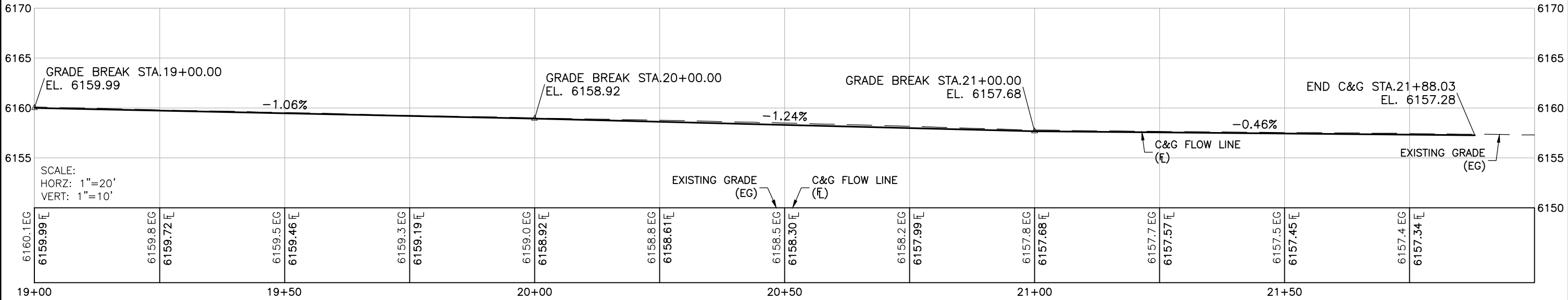
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Of:  
28

Computer File Information		Sheet Revisions				 <div>ROARING FORK ENGINEERING 592 HIGHWAY 133 CARBONDALE, CO 81623 PH: (970) 340-4130</div>	 <div>PUBLIC WORKS DEPARTMENT 0756 HIGHWAY 133 CARBONDALE, CO 81623 PH: (970) 963-0620</div>		8th St Improvements Left C&G Flow Line Profiles (1 of 2)		Sheet Number: 20 Of: 28	
Print Date: 9/22/21	Rev.	Date	Comments	Init.								
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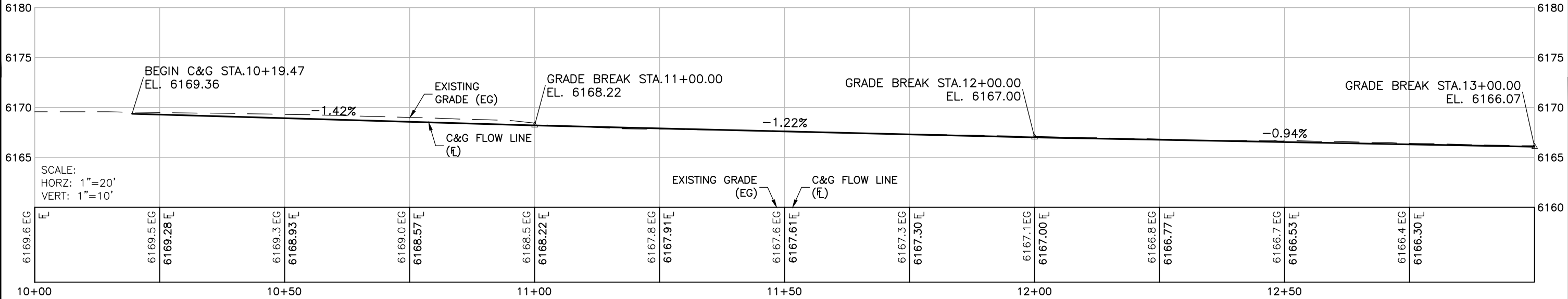
CURB & GUTTER PROFILE  
LEFT SIDE STA. 16+00 TO 19+00



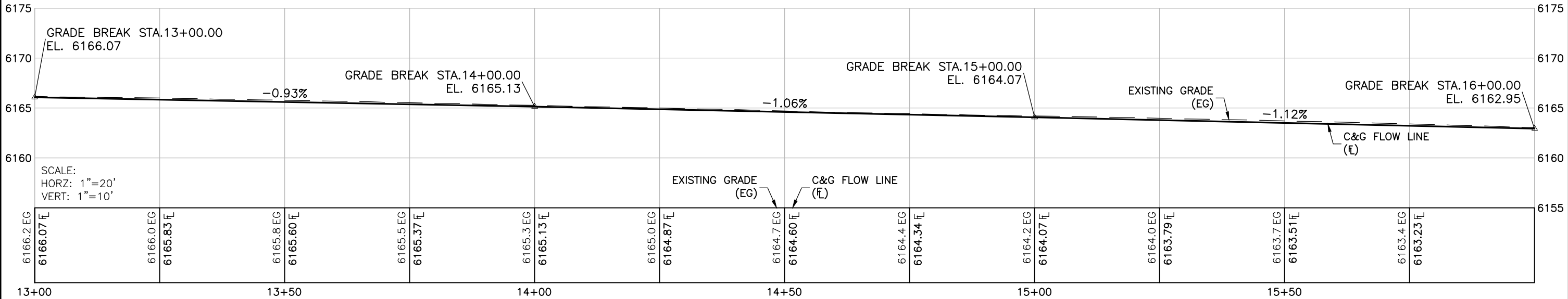
CURB & GUTTER PROFILE  
LEFT SIDE STA. 19+00 TO 22+00

Computer File Information		Sheet Revisions					ROARING FORK ENGINEERING 592 HIGHWAY 133 CARBONDALE, CO 81623 PH: (970) 340-4130	PUBLIC WORKS DEPARTMENT 0756 HIGHWAY 133 CARBONDALE, CO 81623 PH: (970) 963-0620		8th St Improvements		Sheet Number:  21
Print Date: 9/22/21		Rev.	Date	Comments	Init.					Left C&G Flow Line Profiles (2 of 2)		
Drawing File Name: 8th St_Profiles.dwg		1	09.22.21	90% Set	AWA							
Project No.: 2021-27												

P:\2021\27-8TH ST IMPROVEMENTS\04-DWG\04-SHEETSET\8TH ST\_PROFILES.DWG Plotted: 9/22/2021 9:43 AM By: Anthony Alfani



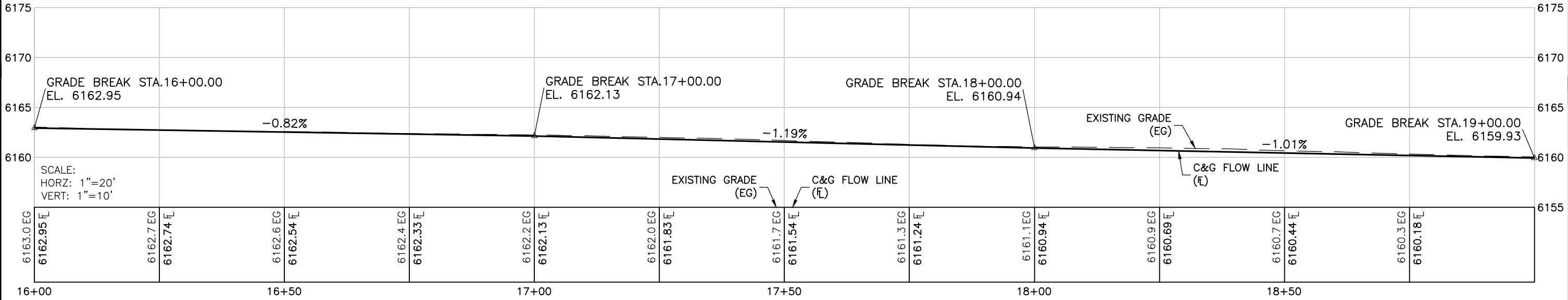
CURB & GUTTER PROFILE  
RIGHT SIDE STA. 10+00 TO 13+00



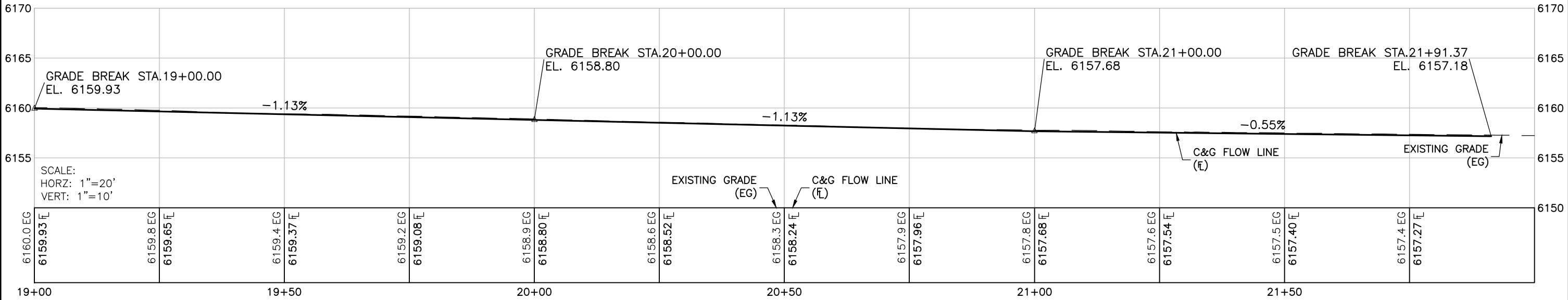
CURB & GUTTER PROFILE  
RIGHT SIDE STA. 13+00 TO 16+00

Computer File Information		Sheet Revisions					ROARING FORK ENGINEERING 592 HIGHWAY 133 CARBONDALE, CO 81623 PH: (970) 340-4130	PUBLIC WORKS DEPARTMENT 0756 HIGHWAY 133 CARBONDALE, CO 81623 PH: (970) 963-0620		8th St Improvements		Sheet Number:  22
Print Date: 9/22/21		Rev.	Date	Comments	Init.					Right C&G Flow Line Profiles (1 of 2)		
Drawing File Name: 8th St_Profiles.dwg		1	09.22.21	90% Set	AWA							
Project No.: 2021-27												

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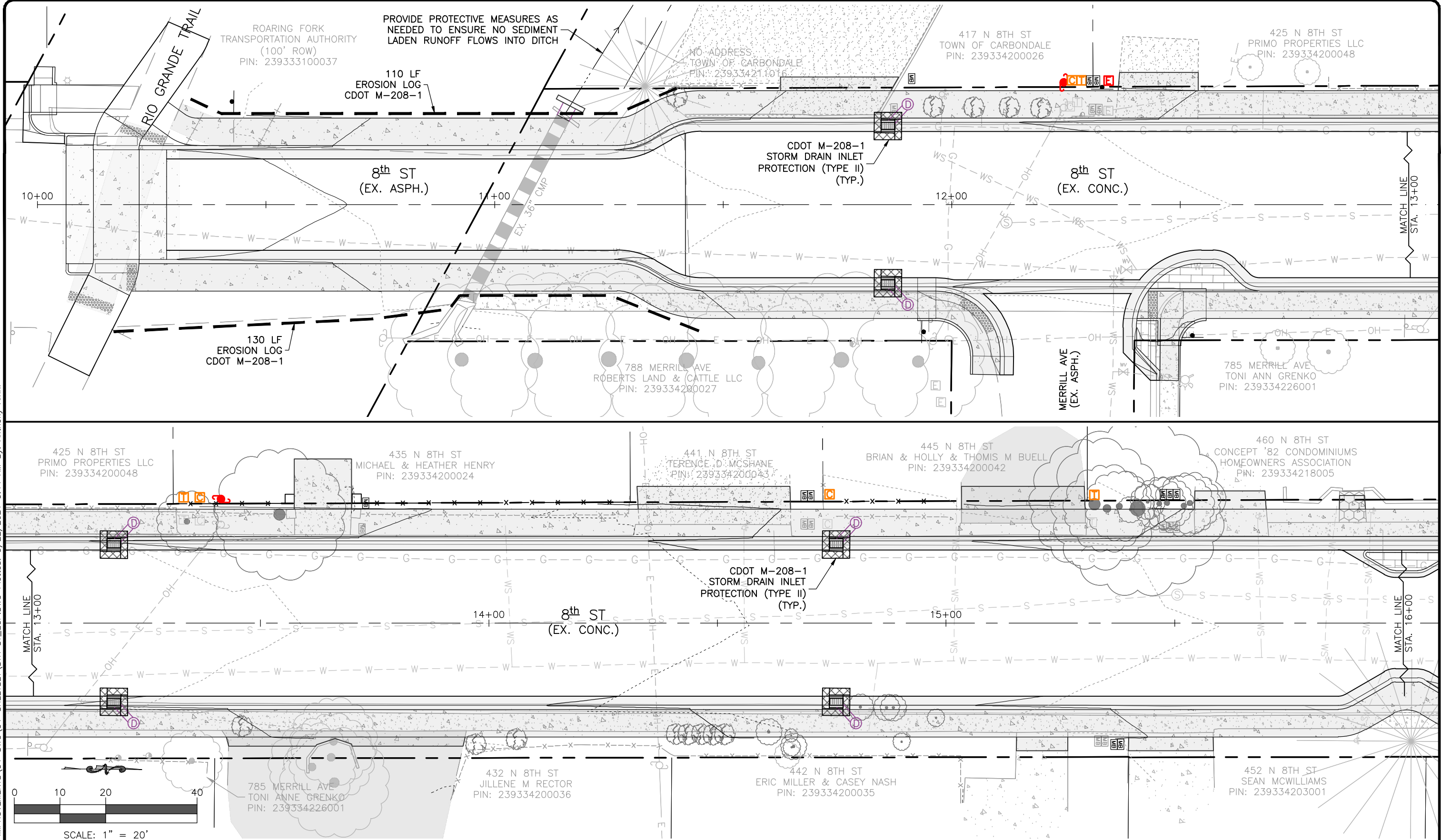
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CURB & GUTTER PROFILE  
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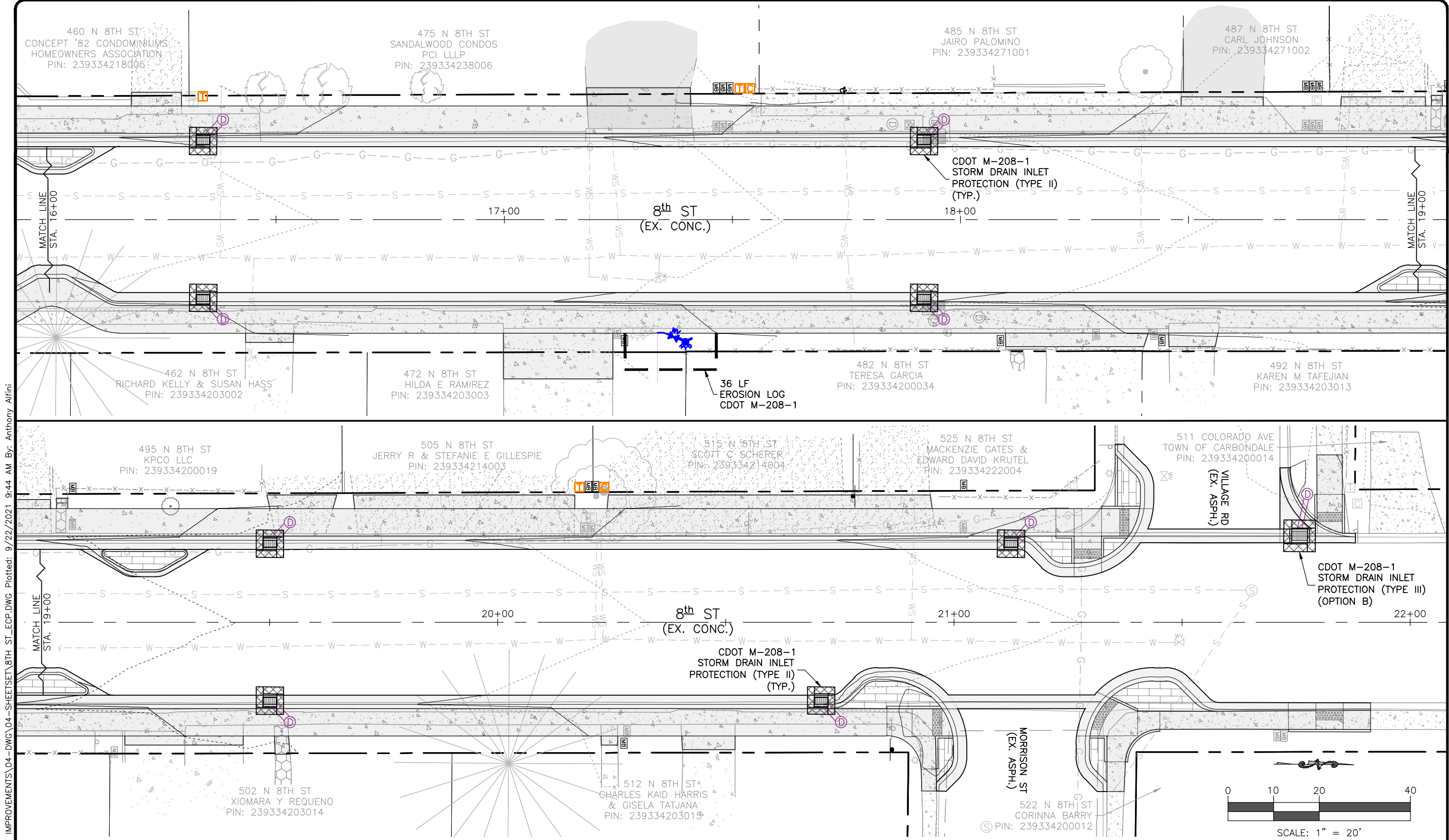
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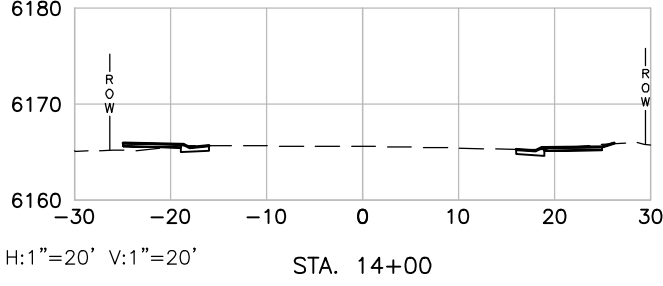
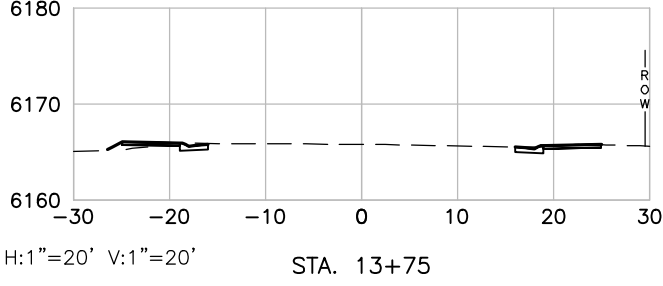
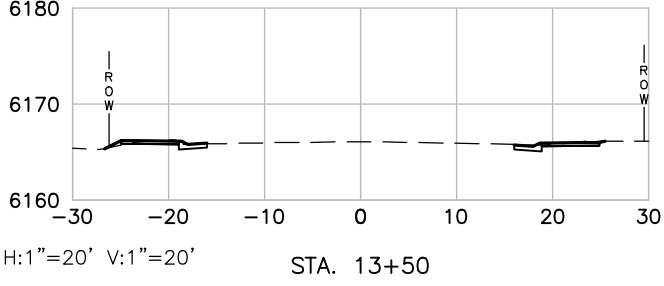
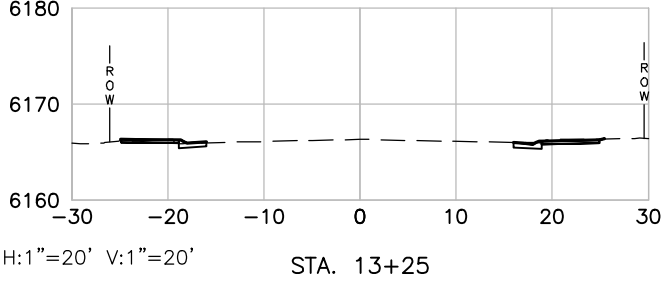
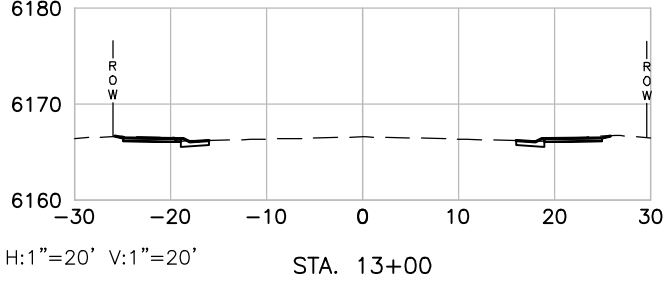
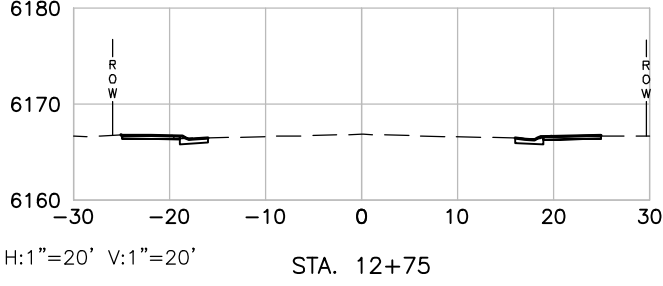
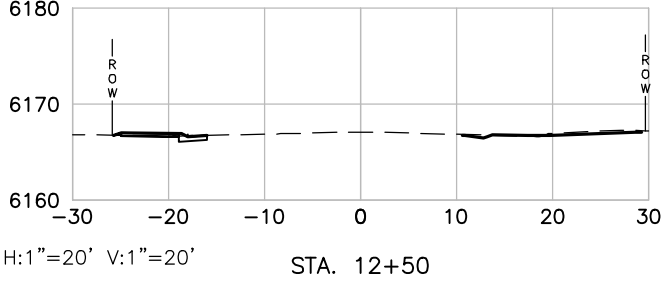
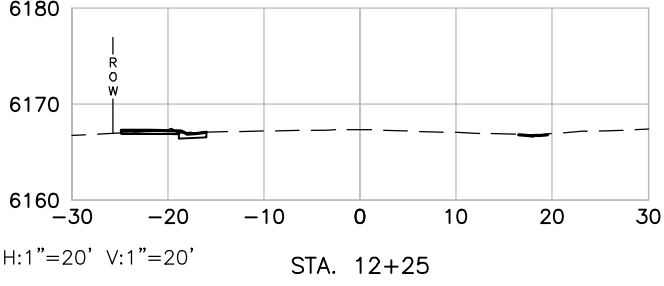
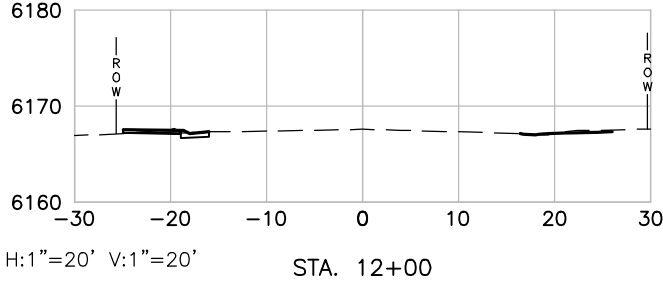
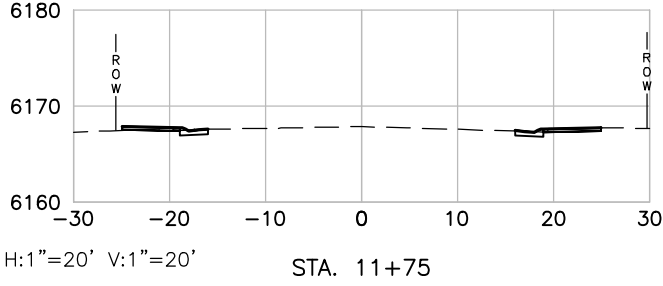
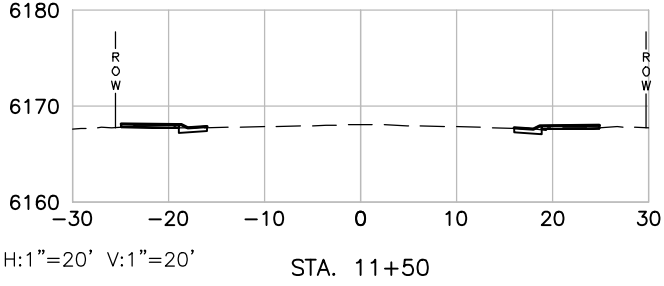
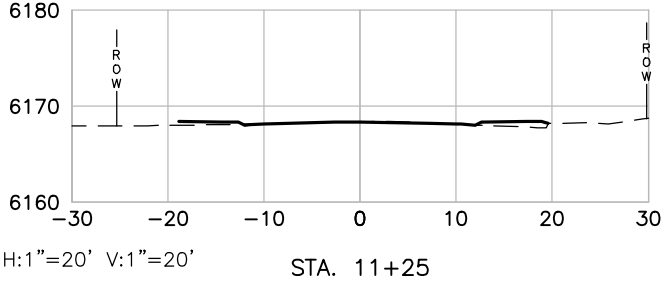
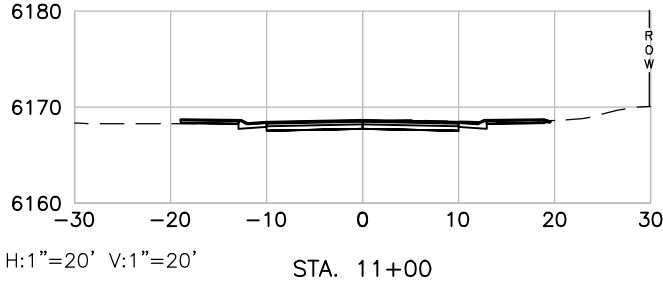
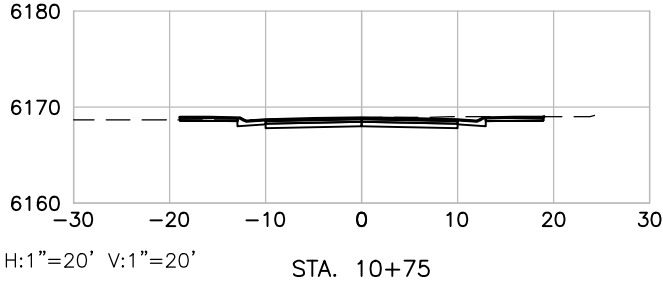
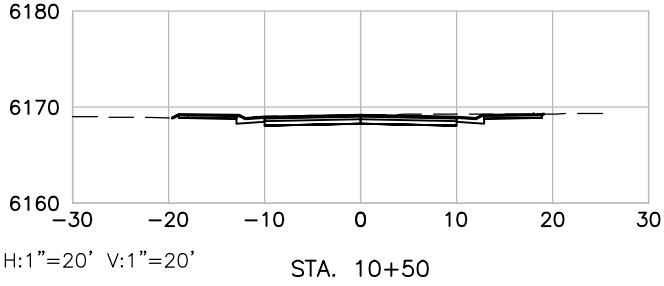
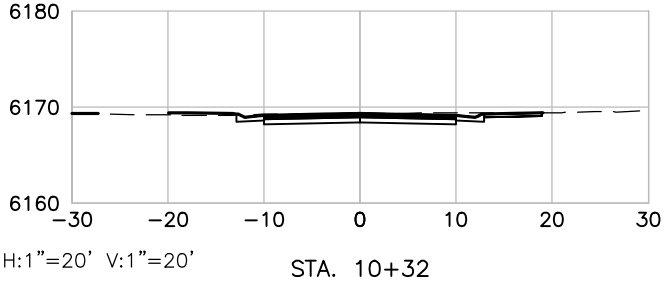
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Print Date: 9/22/21		Rev.	Date	Comments	Init.			Erosion & Sediment Control Plan (1)		24
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Print Date: 9/22/21		Rev.	Date	Comments	Init.					Erosion & Sediment Control Plan (2)		
Drawing File Name: 8th St_ECP.dwg		1	09.22.21	90% Set	AWA							
Project No.: 2021-27										Engineer: AWA	Drawn By: AWA	28

P:\2021\27-8TH ST IMPROVEMENTS\04-DWG\04-SHEETSET\8TH ST\_SECTIONS.DWG Plotted: 9/22/2021 9:44 AM By: Anthony Alfani



Computer File Information	
Print Date: 9/22/21	
Drawing File Name: 8th_St_Sections.dwg	
Project No.: 2021-27	

Sheet Revisions			
Rev.	Date	Comments	Init.
1	09.22.21	90% Set	AWA



ROARING FORK  
ENGINEERING  
592 HIGHWAY 133  
CARBONDALE, CO 81623  
PH: (970) 340-4130

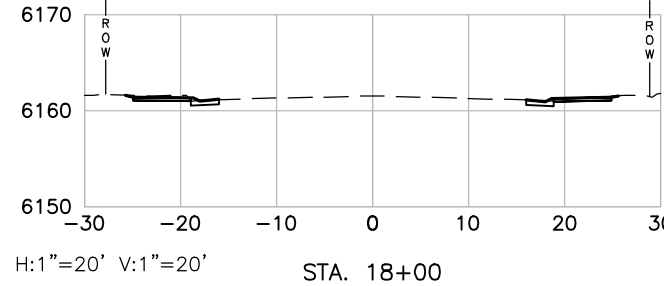
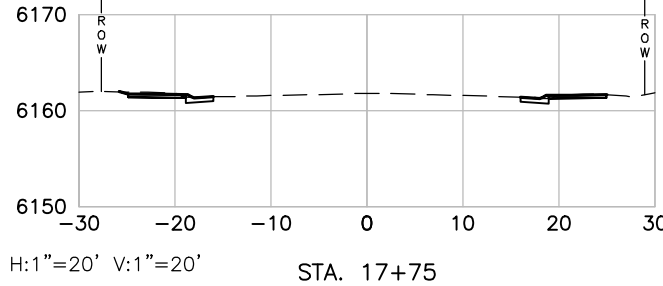
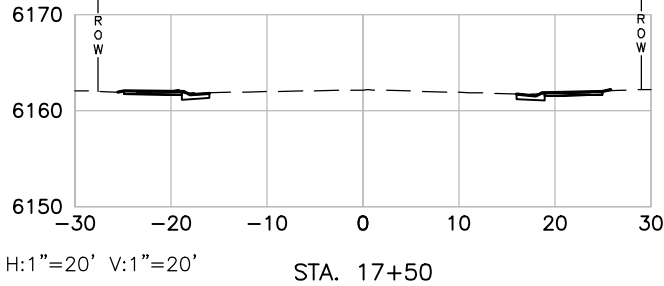
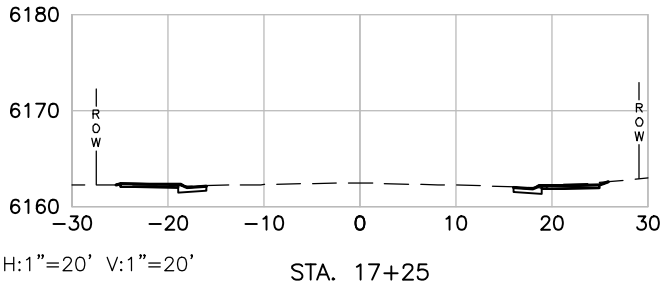
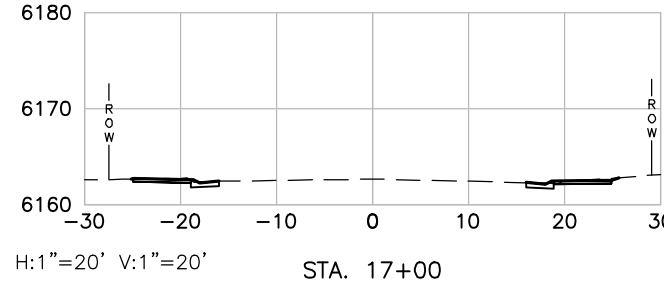
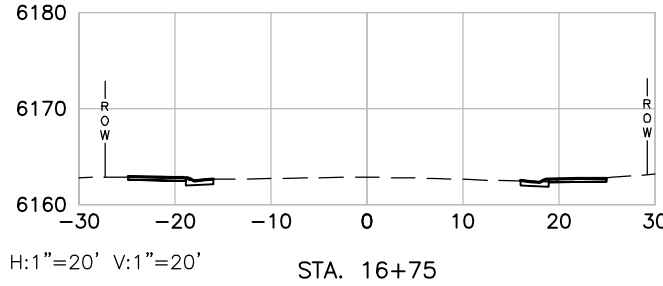
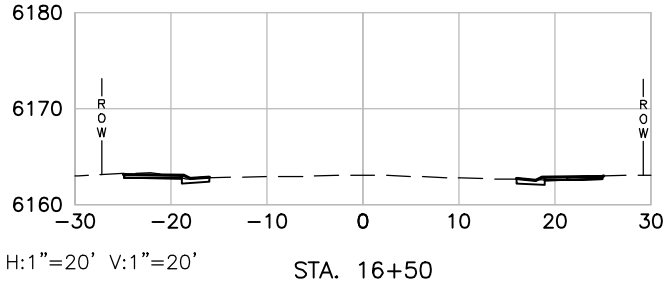
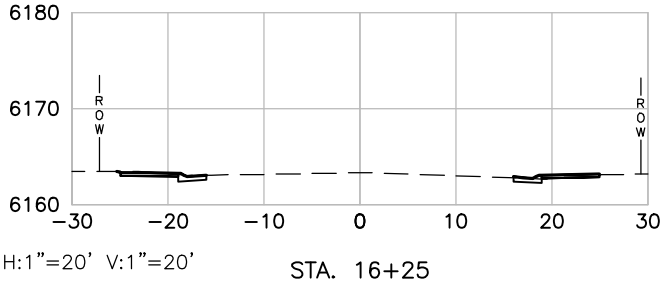
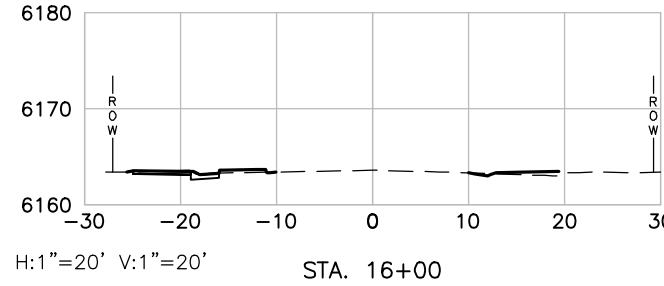
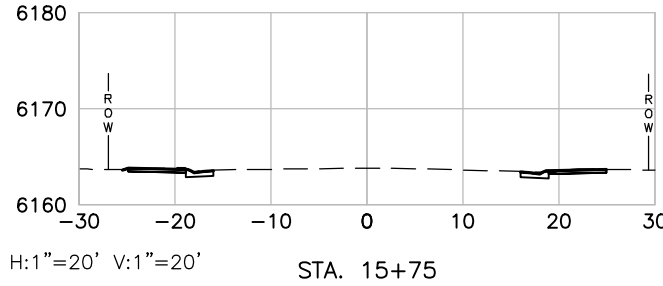
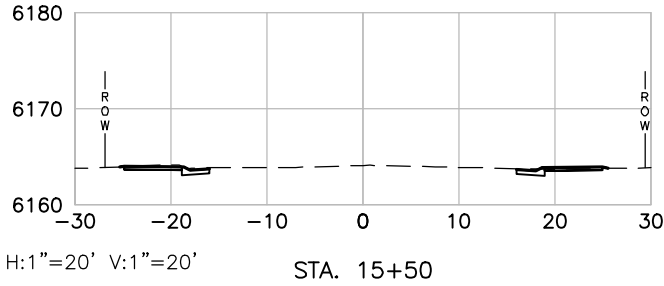
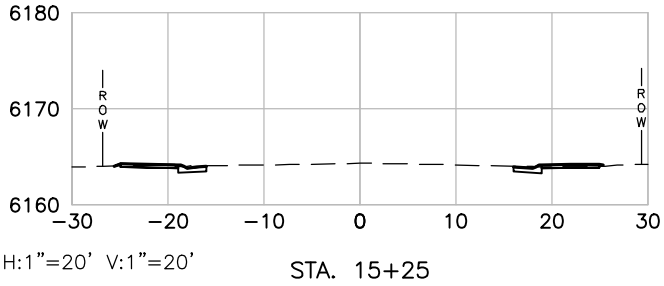
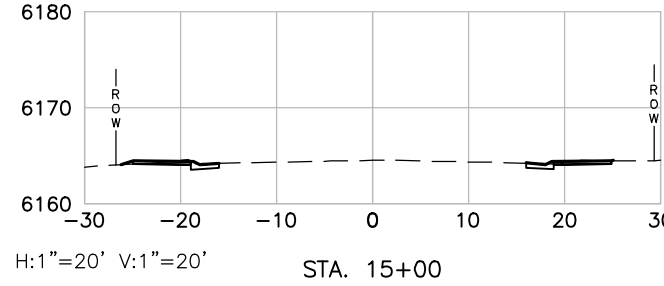
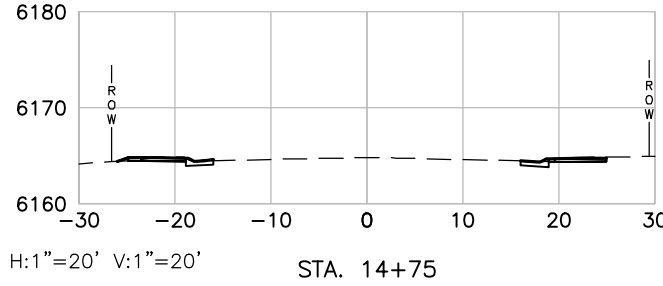
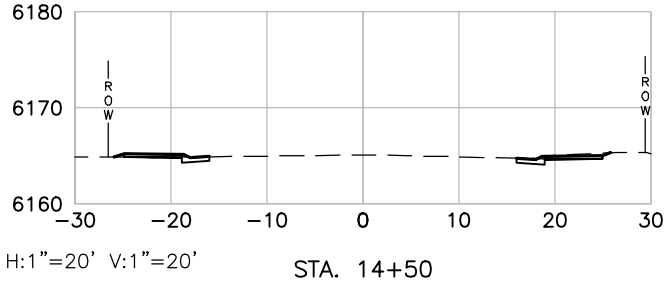
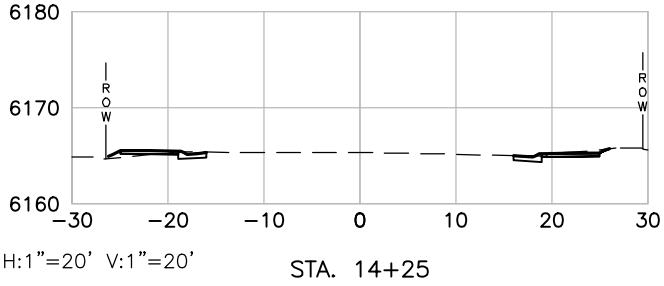
PUBLIC WORKS  
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8th St Improvements	
Sections (1)	
Engineer: AWA	Drawn By: AWA

Sheet Number:  
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Of:  
28

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Computer File Information	
Print Date: 9/22/21	
Drawing File Name: 8th_St_Sections.dwg	
Project No.: 2021-27	

Sheet Revisions			
Rev.	Date	Comments	Init.
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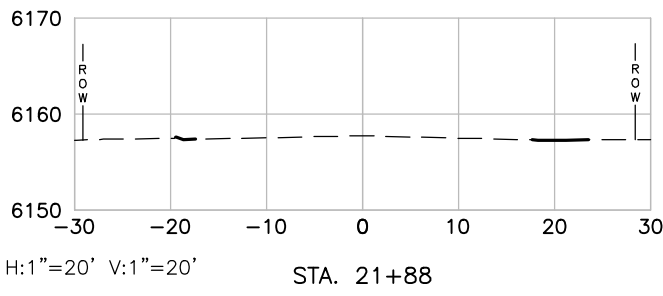
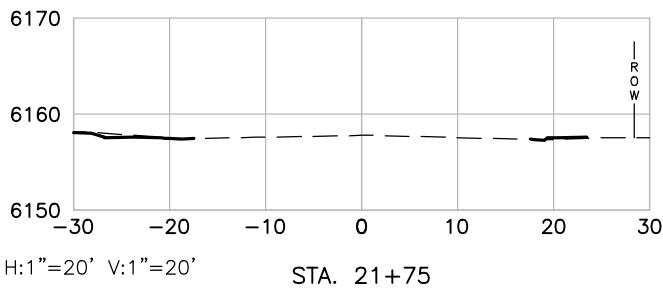
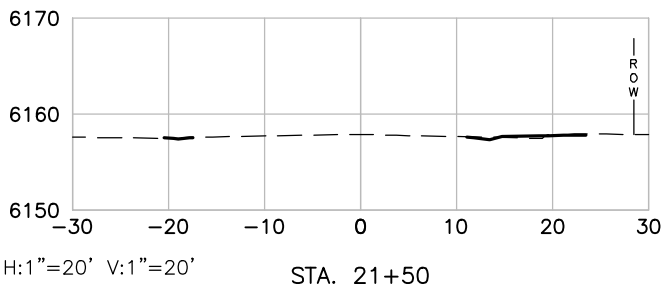
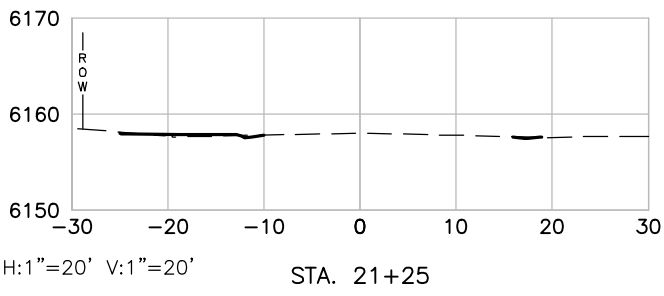
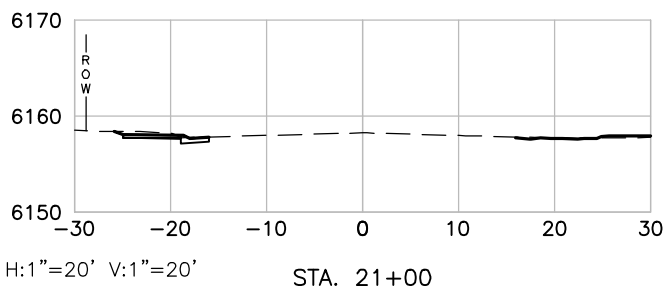
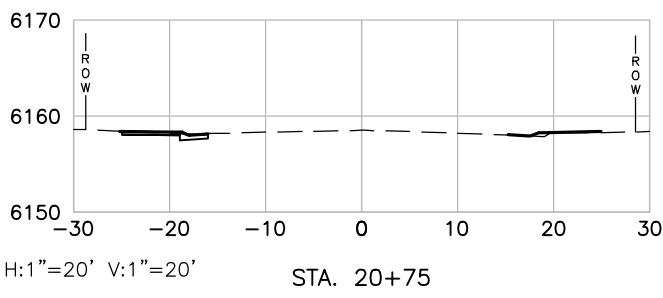
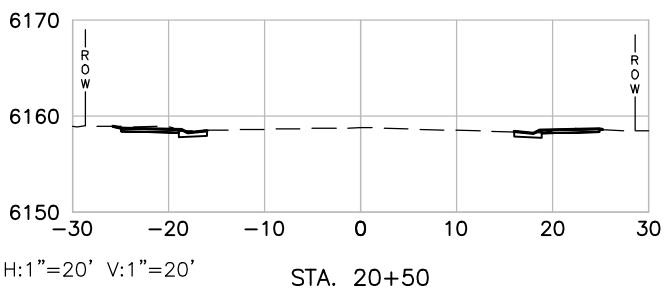
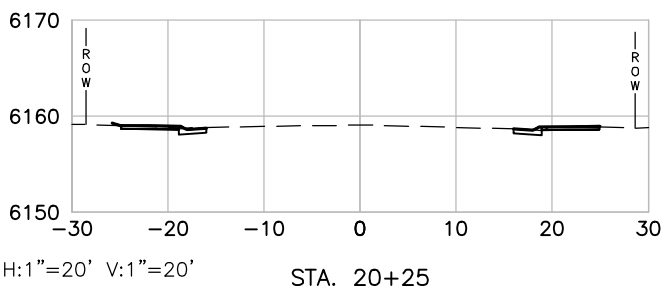
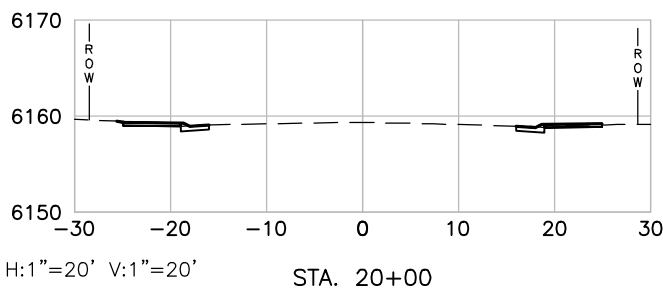
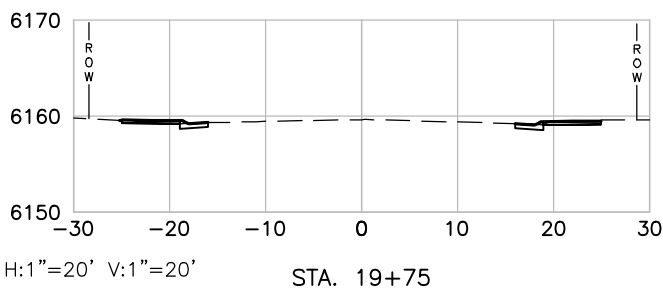
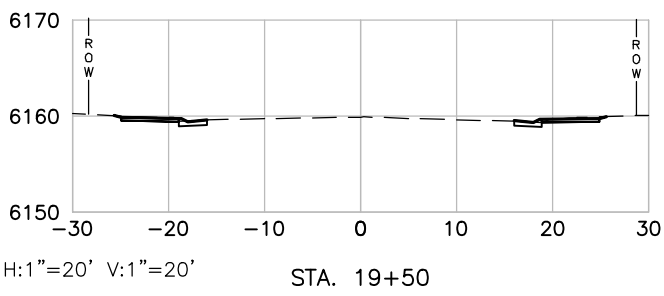
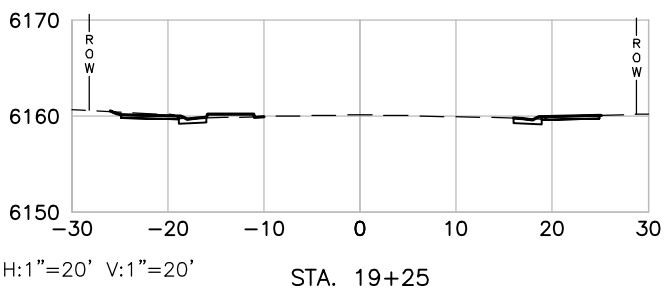
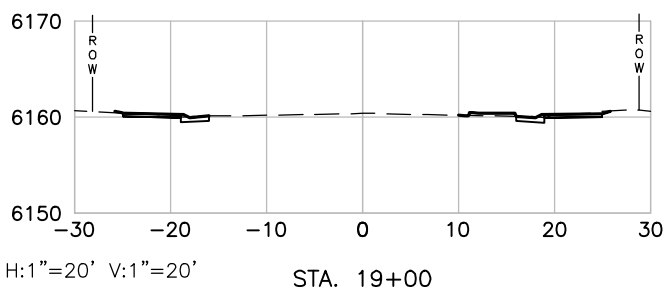
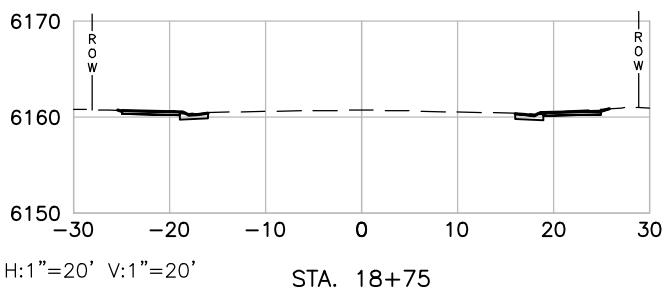
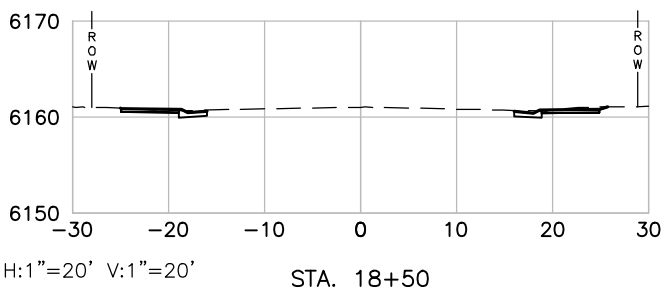
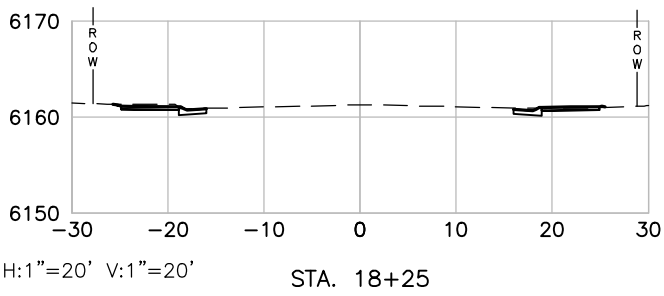
PUBLIC WORKS  
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CARBONDALE, CO 81623  
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8th St Improvements	
Sections (2)	
Engineer: AWA	Drawn By: AWA

Sheet Number:  
27  
Of:  
28

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Computer File Information	
Print Date: 9/22/21	
Drawing File Name: 8th_St_Sections.dwg	
Project No.: 2021-27	

Sheet Revisions			
Rev.	Date	Comments	Init.
1	09.22.21	90% Set	AWA



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CARBONDALE, CO 81623  
PH: (970) 963-0620



8th St Improvements	
Sections (3)	
Engineer: AWA	Drawn By: AWA

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28  
Of:  
28