PODI / NHS	
FHWA PROJECT OF DIVISION INTEREST (PODI)?	■ NO ☐ YES
NATIONAL HIGHWAY SYSTEM?	☐ NO ■ YES

TOWN OF PALISADE
PUBLIC WORKS DEPARTMENT

HIGHWAY 6 MMOF
TOWN OF PALISADE
CDOT PROJECT NO. M021-004
CDOT PROJECT CODE 23961

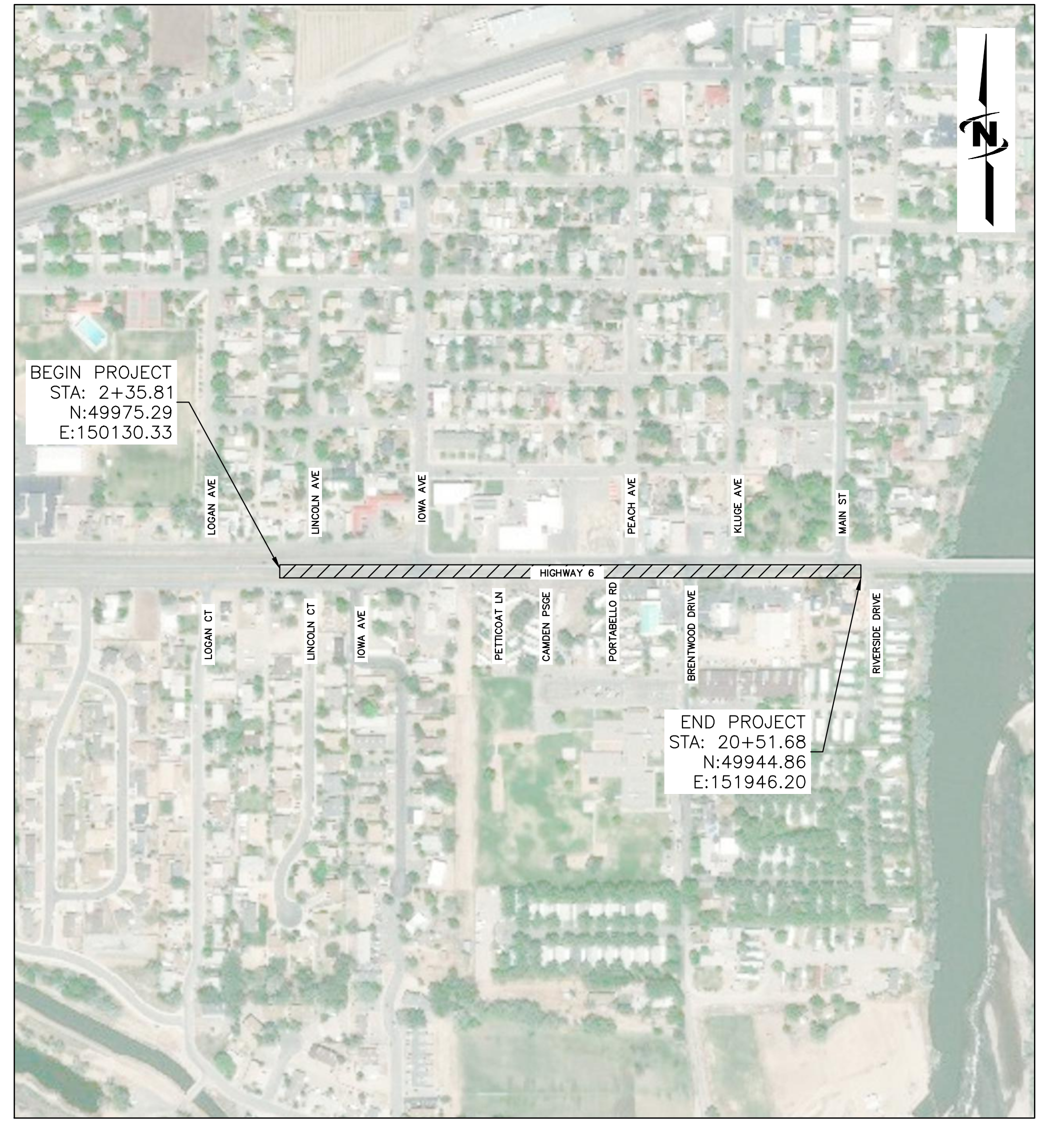
Related Projects:
P. E. UNDER PROJECT:
Project Number
Project Code

R.O.W. Projects:
R.O.W. Project Description
N/A

TABULATION OF LENGTH & DESIGN DATA

STATION	FEET	
	ROADWAY	SIDEWALK
HIGHWAY 6 SIDEWALK		
STA. 6+82.96 BEGIN PROJECT		
STA. 20+46.93 END PROJECT		2250.87
TOTAL	00.00	2250.87
SUMMARY OF PROJECT LENGTH	FEET	MILES
SIDEWALK (NET LENGTH)	2250.87	0.426
MAJOR STRUCTURE	N/A	N/A
PROJECT GROSS LENGTH	2250.87	0.426
DESIGN DATA HIGHWAY 6		
MAXIMUM RADIUS OF CURVE	908 FT	
MAXIMUM GRADE	2.0%	
MAXIMUM DESIGN SPEED	35 MPH	
2018 DESIGN TRAFFIC	N/A	
CLEAR ZONE DISTANCE (TANGENT)	12'	

FOR INFORMATION ONLY



PROJECT LOCATION MAP

0 300 600

SCALE IN FEET

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ADVERTISEMENT PLANS

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305 South Main Street #6
Palisade, CO 81526
Phone: (970) 208-8508

Print Date: November 8, 2021
File Name: 81-20-015_G-00X
Horiz. Scale: As Noted
Unit Information Unit Leader:

Sheet Revisions		
Date:	Comments	Init.

TOWN OF PALISADE COLORADO

COLORADO Department of Transportation

Ad Set
No Revisions:
Revised:
Void:

Cover Page
Contractor:
Resident Engineer: Kaitlyn Clark
Project Engineer: Erik Snyder
PROJECT STARTED: / / ACCEPTED: / /
Comments:

Project No./Code
M021-004 / 23961
COVER PAGE G-001

Plot Date:11/8/2021 2:00 PM Plotted By: Matthew Filo
Date Created:10/29/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_G-00X.DWG

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
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☐ M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)	4–7
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☐ M-203-2	DITCH TYPES	9
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☐ M-607-15	ROAD CLOSURE GATE (9 SHEETS)	129–137
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COLORADO
DEPARTMENT OF TRANSPORTATION

M&S STANDARDS PLANS LIST

July 31, 2019

Revised on February 16, 2021

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX ■ AND WILL BE ATTACHED TO THE PLANS. ALL THE OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

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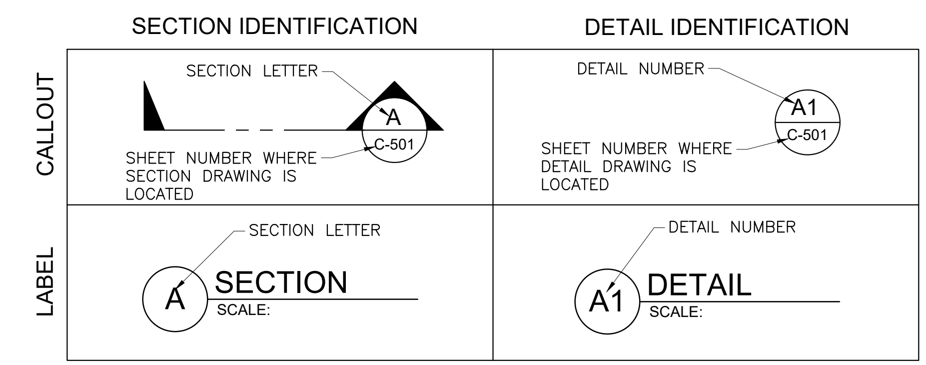
LINE LEGEND

LINE DESCRIPTION	PROPOSED LINE	EXISTING LINE
POWER / COMMUNICATIONS		
OVERHEAD POWER	OHP	OHP
UNDERGROUND POWER	UP	UP
OVERHEAD TELEPHONE	OHT	OHT
UNDERGROUND TELEPHONE	UT	UT
FIBER OPTIC	F/O	F/O
CABLE TELEVISION	CTV	CTV
UNDERGROUND POWER, TEL, CABLE TV		P,T,CTV
UNDERGROUND POWER, TEL, CABLE TV, GAS		P,T,CTV,G
STORM DRAIN		
STORM DRAIN (GENERAL)	SD	SD
STORM DRAIN	X"SD	X"SD
ROOF DRAIN	RD	RD
LAND DRAIN	LD	LD
SANITARY SEWER		
SANITARY SEWER (GENERAL)	SS	SS
SANITARY SEWER	X"SS	X"SS
SANITARY SEWER SERVICE	SS SS	SS SS
SEWER FORCE MAIN	FM	FM
WATER		
WATER (GENERAL)	W	W
WATER (SPECIFIED SIZE)	X"W	X"W
WATER SERVICE	WS WS	WS WS
IRRIGATION		
IRRIGATION	IRR	IRR
GRAVITY IRRIGATION	GIRR	GIRR
PRESSURE IRRIGATION	PIRR	PIRR
POTABLE WATER	PW	PW
NON-POTABLE WATER	NPW	NPW
GAS		
NATURAL GAS	G	G
NATURAL GAS SERVICE	G G	G G
HIGH PRESSURE GAS	HPG	HPG
LIQUID GAS	LG	LG
UTILITY		
CHLORINE LINE	CHL	CHL
INDUSTRIAL WASTE WATER	IWW	IWW
DRAIN LINE	DL	DL

LINE DESCRIPTION	PROPOSED LINE	EXISTING LINE
BOUNDARY		
PROPERTY LINE	P/L	P/L
PROPERTY LINE		
RIGHT OF WAY	R/W	R/W
TEMPORARY EASEMENT	T/E	T/E
PERMANENT EASEMENT	P/E	P/E
TOWNSHIP AND RANGE		
SECTION LINE		
QUARTER SECTION LINE		
1/16 SECTION LINE		
STATE LINE		
COUNTY LINE		
SITE		
FENCE	X	X
MAJOR CONTOUR	2521	
MINOR CONTOUR		
GRADE BREAK		GB
TOP OF BANK		TOB
TOP OF WALL		TOP
TOE OF SLOPE		TOE
CUT LIMITS		
CUT LIMITS	CUT	
FILL LIMITS		
FILL LIMITS	FILL	
DITCH		
STORM SWALE		
EDGE OF WATER		
HIGH WATER		
WETLAND		WET
WETLAND BOG		BOG
WETLAND MARSH		MRSH
WETLAND SWAMP		SWMP
ROADWAY		
ROAD SHOULDER		
ROAD CENTERLINE		
ROAD ASPHALT		EP
ROAD GRAVEL	EG	EG
TOP BACK OF CURB		
LIP OF GUTTER		
LANDSCAPING LIMITS	LS	LS

SECTION AND DETAIL IDENTIFIERS

NOTE:
A DASH MAY BE PLACED IN THE LOWER PORTION OF THE IDENTIFIER IF THE DETAIL DRAWING OR SECTION VIEW IS LOCATED ON THE SAME SHEET.



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J-U-B ENGINEERS, INC.
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Sheet Revisions

Date:	Comments	

TOWN OF PALISADE COLORADO
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COLORADO Department of Transportation

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HIGHWAY 6 MMOF
LINE LEGEND & DETAIL KEY

Designer: EWS
Detailer: MWF
Sheet Subset: G
Structure Numbers
Subset Sheets: 3 of 18

Project No./Code
M021-004 / 23961
Drawing Number G-003
Sheet Number 3 of 84

SURVEY

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
CAP (ALUMINUM)		
CAP (BRASS)		
CHISELED X		
CTRL PT GENERIC		
CTRL PT ½" REBAR	1/2" PIN CONTROL PT	
CTRL PT ⅝" REBAR	5/8" PIN CONTROL PT	
CTRL PT 60D NAIL	60D	
CTRL PT HUB & TACK	HT	
CTRL PT PK NAIL	PK	
CTRL PT TEMP BENCH MARK	TBM	
NAIL		
NAIL AND TAG	N/T	
NAIL (PK)	PK	
BOLT		
DRILL STEEL		
REBAR (½")		
REBAR (⅝")		
STAINLESS STEEL ROD		
IRON PIPE		
RAILROAD SPIKE		
R/W MONUMENT		
STONE		
SECTION CORNER. MON.	22 15 21 16	
SECTION QUARTER MON.	15 22	

SITE

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
BOLLARD		
BOULDER		
DRINKING FOUNTAIN	DF	DF
FLAGPOLE	F	F
GATE		
MAIL BOX	M	M
PARKING METER	PM	PM
POST		
SIGN		
SPOT ELEVATION		
TREE (SHRUB)		
TREE (STUMP)		
TREE (CONIFEROUS)		
TREE (DECIDUOUS)		
TEST HOLE	TH	
WELL	W	
WELL (MONITORING)	M	M

UTILITIES

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
MANHOLE (GENERIC)		
PRESSURE CLEAN OUT AT GRADE	PCO	PCO
THRUST BLOCK		
VAULT	V	V

COMMUNICATION

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
TELE. MANHOLE	T	
TELE. PEDESTAL	T	T
TELE. POLE		
TV PEDESTAL	TV	TV
GUY WIRE		

DOMESTIC WATER

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
FIRE HYDRANT		
SPIGOT		
YARD HYDRANT		
WATER MANHOLE	W	
WATER METER		
WATER VALVE	W	W

ELECTRIC

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
ELEC. MANHOLE	E	
ELEC. METER	E	E
ELEC. TRANS.	E	E
JUNCTION BOX	J	J
POWER POLE		
POWER STUB	E	E
STREET LIGHT		
TRAFFIC SIGNAL POLE		

IRRIGATION

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
IRRIGATION VALVE	IRR	IRR
IRRIGATION VALVE BOX	I	I
SPRINKLER		

NATURAL GAS

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
GAS METER	G	G
GAS VALVE	G	G

SANITARY SEWER

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
CLEANOUT		
SEWER STUB	S	S
SS MANHOLE		

STORM DRAIN

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
CATCH BASIN		
DRY WELL	DW	DW
FLARE END		
GREASE TRAP		
SD MANHOLE	D	

FITTINGS

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
BEND (11.25°)		
BEND (22.5°)		
BEND (45°)		
BEND (90°)		
CAP		
COUPLING		
CROSS		
REDUCER (CONCENTRIC)		
REDUCER (ECCENTRIC)		
TEE		
TRUE UNION		
WYE		

VALVES

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
AIR VALVE		
BLOW OFF		
COMBO VALVE		
BALL VALVE (N.C.)		
BALL VALVE (N.O.)		
BUTTERFLY VALVE		
CHECK VALVE		
CHECK VALVE (FLANGE)		
CHECK VALVE (MJ)		
GATE VALVE		
PLUG VALVE (N.C.)		
PLUG VALVE (N.O.)		

ROAD MARKINGS

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
TURN ARROW		
ARROW STRAIGHT		
ARROW STRAIGHT/TURN		
BICYCLE ROUTE		
CAR		
HANDICAP SYMBOL		

ROADWAY

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
INTERSTATE ROUTE	25	
MAST ARM		
PEDESTRIAN SIGNAL		
STATE ROUTE	14	
TRAFFIC LIGHT		

ROADWAY (CONT.)

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
TYPE 2 BARRICADE		
US ROUTE	287	
TRAFFIC ATTENUATOR		
JERSEY BARRIER		

ABBREVIATIONS

ASSY	ASSEMBLY
>	ANGLE
@	AT (MEASUREMENTS)
BLDG	BUILDING
BM	BENCH MARK
BSC	BITUMINOUS SURFACE COURSE
BSW	BACK OF SIDEWALK
BW	BOTH WAYS
C	CHANNEL (STRUCTURAL)
C/L	CENTER LINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUOUS
CPLG	COUPLING
CU FT	CUBIC FEET
CU YD	CUBIC YARD
DEG OR °	DEGREE
DET	DETAIL
DIA OR ø	DIAMETER
DIP	DUCTILE IRON PIPE
DIST	DISTRIBUTION
DWG	DRAWING
EA	EACH
ELB	ELBOW
ELEV	ELEVATION
EW	EACH WAY
EXIST	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FLG	FLANGE
FT OR '	FEET
GV	GATE VALVE
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
IN OR "	INCH
LB OR #	POUND
LF	LINEAL FEET
LN	LINEAL
MAX	MAXIMUM
MIN	MINIMUM
NO OR #	NUMBER
PE	POLYETHYLENE
PL	PLATE
PL	PROPERTY LINE
PVC	POLYVINYL-CHLORIDE
R	RADIUS
RP	RADIUS POINT
R&R	REMOVE & REPLACE
REM	REMOVE
REQ'D	REQUIRED
REV	REVISION
R/W	RIGHT-OF-WAY
S	SLOPE
SPEC	SPECIFICATION
STA	STATION
STD	STANDARD
STL	STEEL
ST STL	STAINLESS STEEL
TBC	TOP BACK OF CURB
TYP	TYPICAL
TFC	TOP FACE OF CONCRETE
W/	WITH
W/O	WITHOUT
W/REQ'D	WHERE REQUIRED

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Plot Date:11/8/2021 2:00 PM Plotted By: Matthew Filla Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_G-00X.DWG
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Sheet Revisions

Date:	Comments

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COLORADO Department of Transportation

Ad Set
No Revisions:
Revised:
Void:

HIGHWAY 6 MMOF
SYMBOL LEGEND & ABBREVIATIONS

Designer: EWS
Detailer: MWF
Sheet Subset: G
Structure Numbers
Subset Sheets: 4 of 18

Project No./Code
M021-004 / 23961
Drawing Number G-004
Sheet Number 4 of 84

TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:

	Format *
□ 3D Design Modeling Electronic Files	CAD
■ Horizontal Control	PROJECT CONTROL DIAGRAM
■ Vertical Control	PROJECT CONTROL DIAGRAM
□ Roadway Alignment	
■ Original Terrain Data	PLAN SHEET
□ Other:	

* Specify the information format, ie., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

TYPE OF PROJECT

- ■ Landscaping
- □ Signalization
- ■ Safety Improvement
- □ Asphalt Overlay
- □ Concrete Overlay
- □ Minor Widening
- □ Major Reconstruction
- □ New Roadway Construction
- □ Bridge Replacement
- □ Bridge Widening
- □ New Bridge
- ■ Other: MEDIAN REPLACEMENT, ADA RAMPS, & SIDEWALK

SURVEY WORK TO BE PERFORMED BY OTHERS: ____

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:

- ___ □ A complete passing Base Line report (completed within 6 months prior to the start of the project)
- ___ □ An instrument calibration Certification (completed within 6 months prior to the start of the project)
- ___ ■ Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)
- ___ ■ Verification and Maintenance of Horizontal and Vertical Control
- ___ ■ Verify or Determine existing grades and alignments
- ___ ■ Verify or Determine existing topography
- ___ □ Clearing and Grubbing Limits (Section 201)
- ___ ■ Removal Limits (Section 202)
- ___ ■ Reset Items (Section 210)
- ___ □ Excavation and Embankment (Section 203)
  - ___ □ Excavation
    - ___ □ Unclassified
    - ___ □ Stripping
    - ___ □ Muck
    - ___ □ Rock
    - ___ □ Borrow
    - ___ □ Other: ____
    - ___ □ Potholing
  - ___ □ Embankment
  - ___ □ Site Grading
  - ___ □ Erosion Control (Perm)
  - ___ □ Other: ____
  - ___ □ As Staked Earthwork Quantities (See General Notes)

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Excavation	Y	-	Y	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
Embankment	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

- ___ □ Landscaping
  - ___ □ Top Soil (Section 207)
  - ___ □ Seeding (Section 212)
  - ___ □ Mulching (Section 213)
  - ___ □ Planting (Section 214)
  - ___ □ Herbicide (Section 217)
  - ___ □ Other: ____
- ___ □ Erosion Control (Section 208)
  - ___ □ Seeding (Temp)
  - ___ □ Silt Fence
  - ___ □ Erosion Bales
  - ___ □ Erosion Logs
  - ___ □ Riprap (Temp)
  - ___ □ Other: ____
- ___ ■ Roadway Bases
  - ___ ■ Untreated Subgrade
  - ___ □ Treated Subgrade
  - ___ ■ Aggregate Base Course (Section 304)
  - ___ □ Reconditioning
  - ___ □ PMBB - Plant Mix Bituminous Base
  - ___ □ Other: ____

	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
Roadway Bases	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

- ___ ■ Pavements
  - ___ ■ HMA - Hot Mix Asphalt (Section 403)
  - ___ □ Concrete (Section 412)
  - ___ □ Heating & Scarifying Treatment
  - ___ □ Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
  - ___ □ Seal Coat or Chip Seal (Section 409)
  - ___ □ Other: ____

	Grid (Y/N)	Special Interval	Special Offset
Pavements	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- ___ ■ Roadway Elements
  - ___ ■ Curb and Gutter (Section 609)
  - ___ □ Drop inlets - alignment and grades (Section 604)
  - ___ □ Retaining Walls
  - ___ □ Guard Rail (Section 606)
  - ___ ■ Sidewalk (Section 608)
  - ___ □ Overlay Stationing
  - ___ □ Other: ____

	Tangent Interval	Curve Interval	Special Offset
Curb & Gutter	-	-	-

	Left Interval	Center Interval	Right Interval
Stationing	-	-	-

- ___ □ Riprap (Perm) (Section 506)
- ___ □ Slope and Ditch Paving (Section 507)
- ___ ■ Minor Structures
  - ___ □ Structure Excavation limits (Section 206)
  - ___ □ Culverts (Section 603)
  - ___ □ Culverts w/ Headwalls and Wingwalls (Section 601)
  - ___ □ Concrete Box Culverts w/ Headwalls and Wingwalls
  - ___ ■ Pipes (Section 603)
    - ___ □ Sanitary Sewer
    - ___ ■ Storm Sewer
    - ___ □ Water
    - ___ □ Irrigation
    - ___ □ Miscellaneous
  - ___ □ Manholes (Section 604)
  - ___ ■ Inlets (Section 604)
  - ___ □ Permanent Water Quality BMP (Section 208)
  - ___ □ Other: ____
- ___ □ Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number
  - ___ □ Structure Excavation limits (Section 206)
  - ___ □ Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
  - ___ □ Piling locations and cut off elevations (Section 502)
  - ___ □ Caisson locations and elevations (Section 503)
  - ___ □ Footing locations, alignment, and elevations
  - ___ □ Abutment/Pier locations, alignment, and elevations
  - ___ □ Wingwall skew angles/offsets
  - ___ □ Structural concrete form locations
  - ___ □ Substructure As-constructed survey required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)
  - ___ □ Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
  - ___ □ Deck grades at Girder 10th or 'n' th point locations and elevations
  - ___ □ Slope and Ditch Paving (Section 507)
  - ___ □ Other: ____
- ___ □ Fencing (Section 607)
  - ___ □ Temporary
  - ___ □ Permanent
  - ___ □ Sound Barrier
  - ___ □ Other: ____
- ___ □ Delineators (Section 612)
  - ___ □ Temporary
  - ___ □ Permanent
- ___ □ Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
  - ___ □ Signal pole locations and elevations
  - ___ ■ Light pole locations and elevations
  - ___ □ Sign locations
  - ___ □ Field verify sign post locations, elevations, and lengths before fabrication.
  - ___ □ Other: ____

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

- ___ ■ Pavement Marking (Section 627)
  - ___ □ Striping (Temp)
  - ___ ■ Striping (Perm)
  - ___ ■ Symbols
  - ___ □ Other: ____
- ___ □ Temporary Lighting and Construction Traffic Control Devices (Section 630)
  - ___ □ Signal pole locations and elevations (Temp)
  - ___ □ Light pole locations and elevations (Temp)
  - ___ □ Sign Locations (Temp)
  - ___ □ Other: ____
- ___ □ All Easements (Temp Staking by P.L.S. Only)
- ___ ■ Right of Way (Temp Staking by P.L.S. Only)

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:

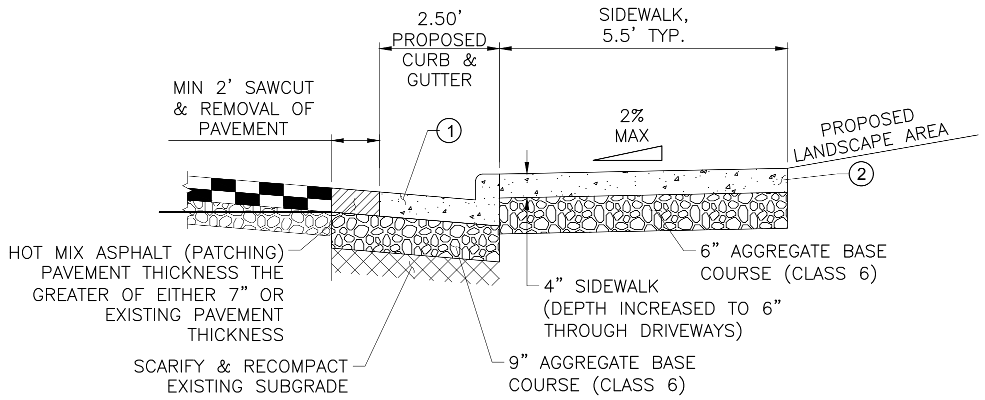
- ___ □ Monumentation (Section 629)
  - ___ □ Control
  - ___ □ Right of Way
  - ___ □ Land corners, Aliquot corners
  - ___ □ Easements
  - ___ □ Reference the specified existing monuments: ** ____
  - ___ □ Replace the specified existing monuments: ** ____
  - ___ □ Locate monuments. It is estimated ___ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

** A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:

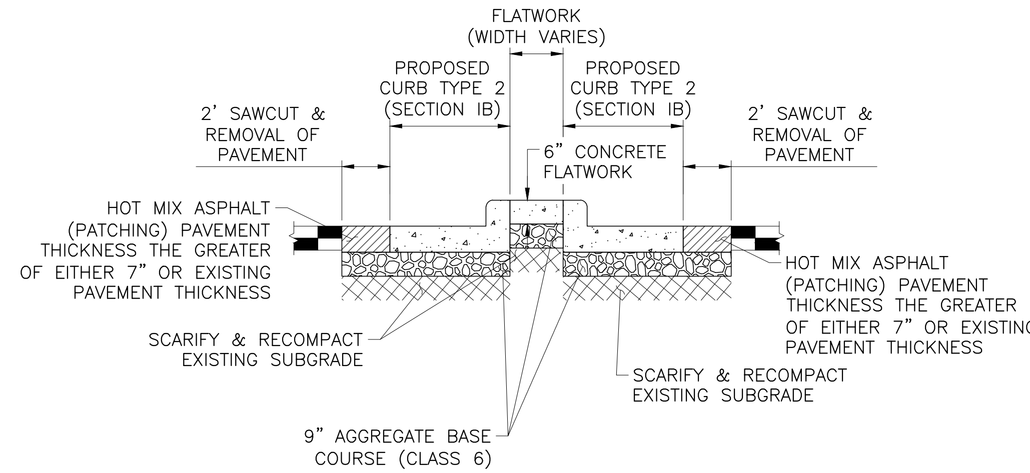
1. Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDOT Survey Manual.
2. Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
3. The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer 14 days prior to the Presurvey Conference – Construction Survey.
4. Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
5. The Contractor shall furnish an As Staked (or 3D Design Modeling Electronic Files) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDOT Survey Manual. A printed copy of the As Staked (or 3D Design Modeling Electronic Files) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
6. Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
7. The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
8. The Contractor shall coordinate construction staking on the project with any utility work.
9. Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
10. The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
    - ■ Horizontal Control (Primary & Secondary)
    - ■ Vertical Control (i.e. Benchmarks)
    - □ Property Pin Ties
    - ■ Horizontal Alignment
    - ■ Grading
    - ■ Slope Staking
    - □ Minor Structures
    - □ Major Structures
    - ■ One fieldbook for each work category shown on this sheet
    - □ Other Fieldbook(s): ____
11. The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:
    - □ All required Instrument Calibrations



1 ATTACHED SIDEWALK TYPICAL SECTION

SCALE:N.T.S

SOUTH: STA 12+39 TO STA 20+50
NORTH: STA 12+33 TO STA 12+87



2 CONCRETE FLATWORK TYPICAL SECTION

SCALE:N.T.S

KEYED NOTES

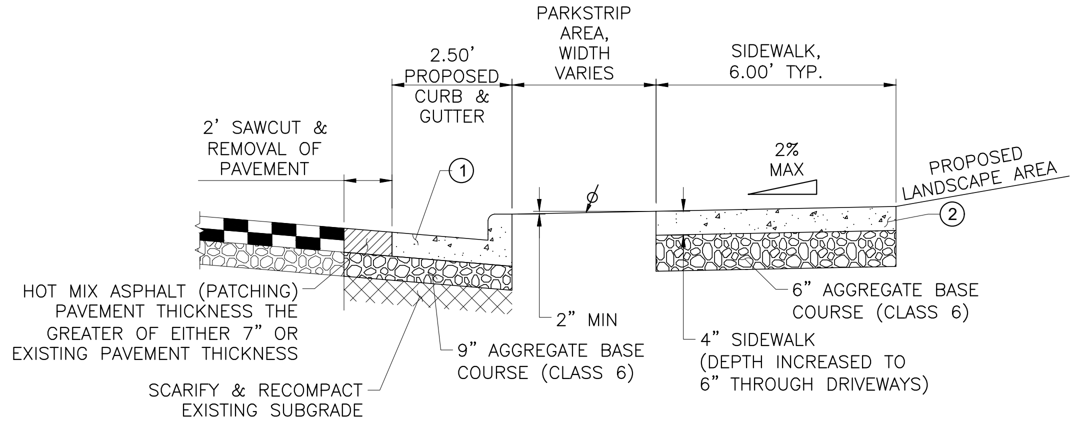
1. CURB AND GUTTER, TYPE 2 (SECTION II-B) PER CDOT M&S STANDARD M-609-1.
2. CONCRETE SIDEWALK PER CDOT M&S STANDARD M-609-1.

TYPICAL SECTION SYMBOLS

- BREAK POINTS IN SLOPES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2% MAXIMUM SLOPE.
- VERTICAL ALIGNMENT CONTROL POINTS.
- THE CONTRACTOR WILL BE REQUIRED TO PLACE 3 IN. OF TOPSOIL TO THIS LINE (SEE LS SHEETS FOR IMPROVEMENTS).

NOTES

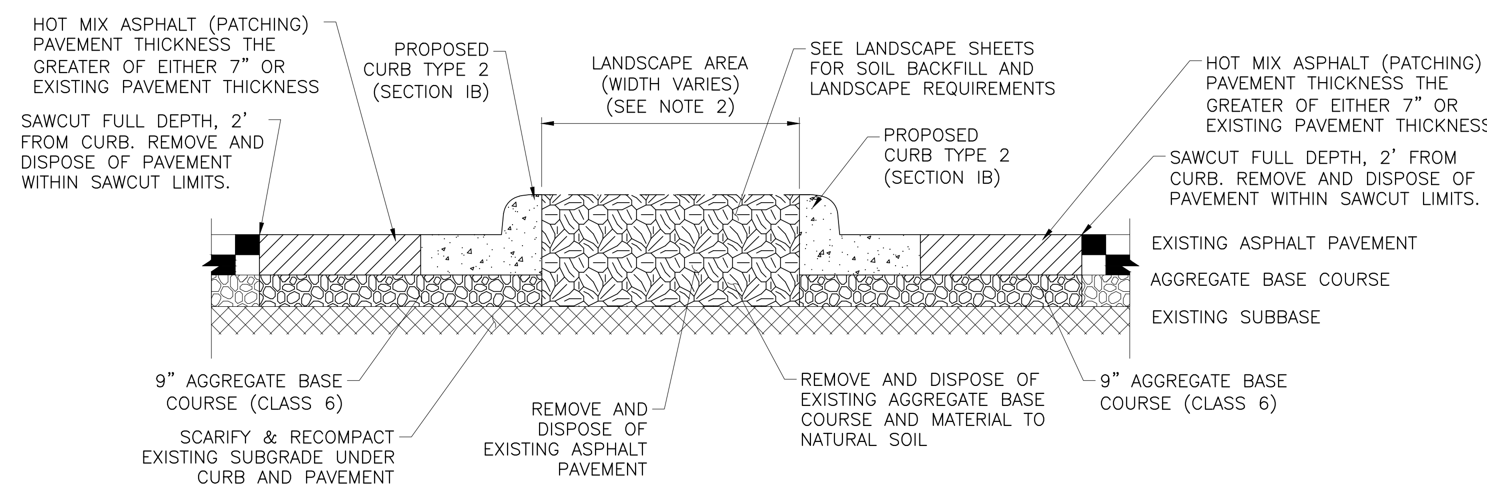
1. REFER TO DWGS GR-401 TO GR-409 FOR GRADING PLANS.
2. IF LANDSCAPE AREA WIDTH IS LESS THAN 2', USE CONCRETE FLATWORK INSTEAD OF LANDSCAPING. SEE DETAIL 2, SHEET G-006.
3. THE MAXIMUM LIFT FOR ANY HMA SHALL BE 3 INCHES.



3 DETACHED SIDEWALK TYPICAL SECTION

SCALE:N.T.S.

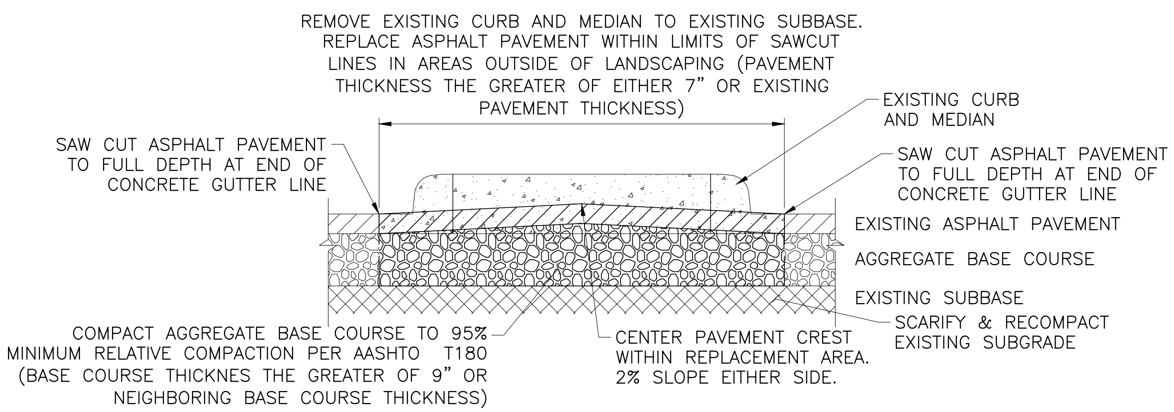
SOUTH: STA 6+83 TO STA 12+39
NORTH: STA 6+99 TO STA 12+33



4 PROPOSED TYPE 2 CURB MEDIAN TYPICAL SECTION

SCALE:N.T.S.

STA 6+97 TO STA 12+91
STA 13+46 TO STA 14+69
STA 15+42 TO STA 16+21
STA 16+87 TO STA 19+38



5 EXISTING MEDIAN REMOVAL TYPICAL SECTION

SCALE:N.T.S.

STA 4+21 TO STA 6+20
STA 7+00 TO STA 8+21
STA 11+67 TO STA 12+79
STA 14+69 TO STA 14+76
STA 18+25 TO STA 19+42

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

Plot Date:11/8/2021 2:00 PM Plotted By: Matthew Filia
Date Created:10/29/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_G-00X.DWG

Print Date: 11/8/2021
Scale: AS NOTED

J-U-B ENGINEERS, INC.
305 South Main Street #6
Palisade, CO 81526
Phone: (970) 208-8508

Sheet Revisions	
Date:	Comments

TOWN OF PALISADE COLORADO
175 East Third Street
Palisade, CO 81526
Phone: (970) 464-1116

COLORADO Department of Transportation

Ad Set
No Revisions:
Revised:
Void:

HIGHWAY 6 MMOF
TYPICAL SECTIONS

Designer: EWS
Detailer: MWF
Sheet Subset: G
Structure Numbers
Subset Sheets: 6 of 18

Project No./Code
M021-004 / 23961
Drawing Number G-006
Sheet Number 6 of 84

KEYED NOTES

① CURB AND GUTTER, TYPE 2 (SECTION II-B) PER CDOT M&S STANDARD M-609-1.

② CONCRETE SIDEWALK PER CDOT M&S STANDARD M-609-1.

TYPICAL SECTION SYMBOLS

▲ BREAK POINTS IN SLOPES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.

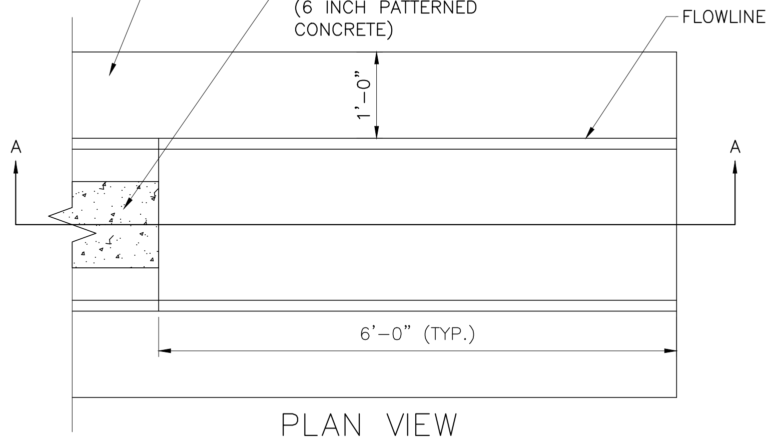
2% MAXIMUM SLOPE.

○ VERTICAL ALIGNMENT CONTROL POINTS.

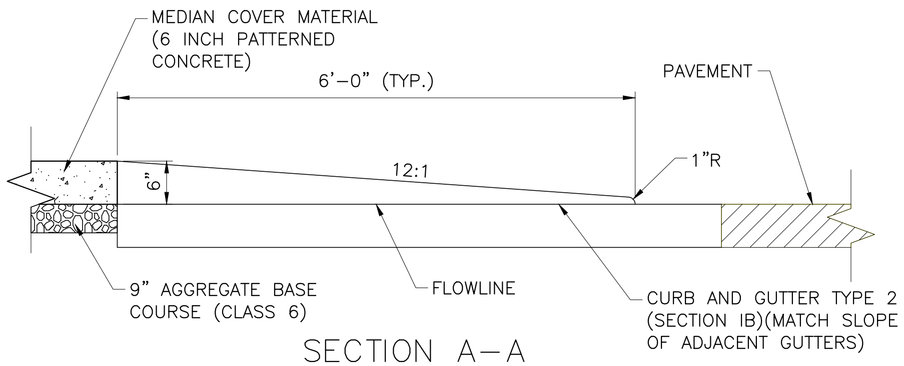
THE CONTRACTOR WILL BE REQUIRED TO PLACE 3 IN. OF TOPSOIL TO THIS LINE (SEE LS SHEETS FOR IMPROVEMENTS).

NOTES

1. REFER TO DWGS GR-401 TO GR-409 FOR GRADING PLANS.
2. THE MAXIMUM LIFT FOR ANY HMA SHALL BE 3 INCHES.



PLAN VIEW



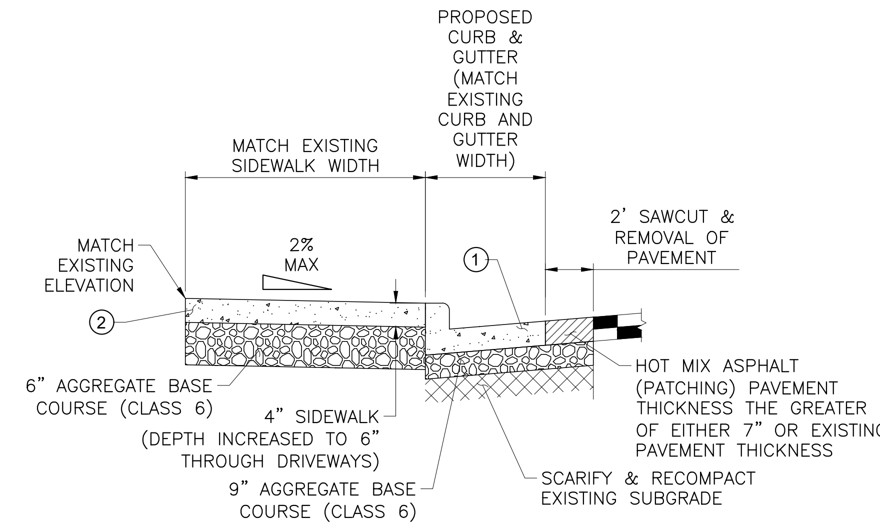
SECTION A-A

NOTES:
- MEDIAN NOSE WILL BE INCLUDED IN THE COST OF CURB AND GUTTER AND IS MEASURED AT FLOWLINE.
- MEDIAN NOSE SHALL BE PLACED MONOLITHICALLY.

1 MEDIAN ISLAND NOSE DETAIL

SCALE:N.T.S.

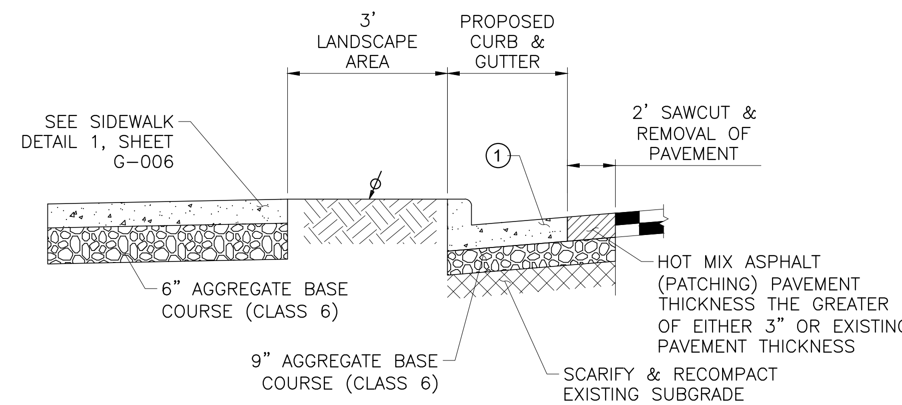
STA 7+00 TO STA 7+06
STA 12+82 TO STA 12+88
STA 15+44 TO STA 15+50
STA 16+13 TO STA 16+19
STA 19+28 TO STA 19+34



2 NORTH EXISTING SIDEWALK REPLACEMENT

SCALE:N.T.S.

STA 13+92 TO STA 14+44
STA 15+01 TO STA 15+46
STA 15+74 TO STA 16+13
STA 17+09 TO STA 17+30



3 SOUTH PARKING LOT MODIFICATIONS

SCALE:N.T.S.

STA 12+82 TO STA 14+47

Know what's below. Call before you dig.

Print Date: 11/8/2021	Sheet Revisions	Ad Set	HIGHWAY 6 MMOF TYPICAL SECTIONS	Project No./Code
Scale: AS NOTED	Date: / Comments	No Revisions:		M021-004 / 23961
J-U-B ENGINEERS, INC. 305 South Main Street #6 Palisade, CO 81526 Phone: (970) 208-8508	TOWN OF PALISADE COLORADO — 175 East Third Street Palisade, CO 81526 Phone: (970) 464-1116	Revised:	Designer: EWS / Detailer: MWF / Sheet Subset: G	Drawing Number G-007
	COLORADO Department of Transportation	Void:	Structure Numbers / Subset Sheets: 7 of 18	Sheet Number 7 of 84

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2019, AND AS SUBSEQUENTLY REVISED; THE STANDARD PLANS, DATED JULY 2019, AND AS SUBSEQUENTLY REVISED, AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
2. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE PROJECT.
3. CONTROL OF SURFACE RUNOFF AND THE 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.
4. THE CONTRACTOR SHALL KEEP EXISTING DRAINAGE STRUCTURES FUNCTIONAL AND MAINTAIN DRAINAGE TO THOSE STRUCTURES. MAINTAINING DRAINAGE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS DESIGNATED TO REMAIN 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.
6. SANITARY FACILITIES SHALL BE LOCATED ON SITE. SANITARY FACILITIES SHALL BE FULLY OPERATIONAL BEFORE CONSTRUCTION CAN BEGIN. SANITARY FACILITY SHALL INCLUDE CLEANING A MINIMUM OF TWICE A WEEK.
7. THE CONTRACTOR SHALL HAVE: ONE COPY OF THE PLANS AND REVIEWED SHOP DRAWINGS AND ONE COPY OF THE CONSTRUCTION SPECIFICATIONS FOR THE PROJECT AT THE JOB SITE AT ALL TIMES.
8. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF PALISADE, 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.
9. TOWN MUST PROVIDE INSPECTION & TESTING THROUGH THEIR ENGINEERING CONSULTANT AND NOT THE CONTRACTOR. CONTRACTOR CAN DO THEIR OWN TESTIING IN ADDITION TO CONSULTANT TESTER. CDOT DOES QAC TESTING.
10. ALL REFERENCES TO "ENGINEER" REFER TO THE TOWN ENGINEER.
11. PROPERTY LINES MUST BE STAKED WHERE PROPOSED GRADING IS WITHIN 2 FEET OF THE PROPERTY LINE.

UTILITIES

1. EXISTING UTILITY LOCATIONS SHOWN ON THE PLAN SHEETS ARE ASCE 38 QUALITY LEVEL D AND QUALITY LEVEL C.
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 EXCAVATION OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT COLORADO 811 AT 811 TO HAVE LOCATIONS OF REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER.
4. LOCATION AND NOTIFICATION OF BOTH MEMBER AND NON-MEMBER UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS NECESSARY TO ENSURE THE UTILITIES WILL NOT BE IMPACTED BY CONSTRUCTION ACTIVITIES.
6. 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 OR CONCRETE.
8. POTHOLING AS REQUIRED TO LOCATE SPECIFIC UTILITIES SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE TOWN ENGINEER AND WITH THE PROJECT ENGINEER OR INSPECTOR PRESENT.
9. THE FOLLOWING IS A LIST OF KNOWN UTILITIES WITH SERVICE WITHIN OR ADJACENT TO THE PROJECT AREA AND THEIR RESPECTIVE CONTACT INDIVIDUALS. 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.

ENTITY	CONTACT	PHONE
TOWN OF PALISADE PUBLIC WORKS (WATER & SEWER)	MATT LEMON	970-464-5602
XCEL (GAS & ELECTRIC)	MIKE CASTRO	970-244-2781
SPECTRUM (TELEPHONE & FIBER OPTIC)	JEFF VALDEZ	970-210-2550
SPECTRUM (TELEPHONE & FIBER OPTIC)	ARMANDO DURAN	970-589-0947
COLORADO DEPT. OF TRANSPORTATION (ELECTRIC & FIBER OPTIC)	MARC TRAVIS	970-683-7534
IRRIGATION	MATT ENOCHS	970-871-0566

PERMITS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL PROCEED WITH ALL PERMIT ACQUISITION AS SOON AS HE DEEMS NECESSARY FOLLOWING THE NOTICE OF AWARD. NO CONTRACT DELAYS OR EXTENSIONS WILL BE GRANTED TO THE CONTRACTOR FOR FAILURE TO DEVELOP THE REQUIRED PLANS AND OBTAIN THE REQUIRED STATE, COUNTY, AND TOWN PERMITS IN A TIMEFRAME NECESSARY TO BEGIN THE WORK AS SPECIFIED IN THE CONTRACT.
2. FOR ADDITIONAL STORMWATER CONSTRUCTION PERMIT REQUIREMENTS, REFER TO THE PROJECT SPECIAL PROVISIONS.

TRAFFIC CONTROL DURING CONSTRUCTION

1. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL AND METHODS FOR HANDLING TRAFFIC PLAN FOR APPROVAL PRIOR TO START OF PROJECT WORK.
2. ACCESS TO BUSINESSES ALONG HWY 6 AND ADJACENT STREETS SHALL BE MAINTAINED AT ALL TIMES.
3. WORK SHALL BE SCHEDULED SUCH THAT A MINIMUM OF ONE LANE OF TRAFFIC IS ALLOWABLE IN EACH DIRECTION FOR THE DURATION OF THE PROJECT.

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. 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.
3. WHERE CUTTING OF ASPHALT PAVEMENT IS REQUIRED, THE CUTTING SHALL BE DONE TO A NEAT WORK LINE WITH A SAW OR CUTTING WHEEL AS APPROVED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
4. 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.
5. 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. 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 IS AVAILABLE FREE OF CHARGE BY THE TOWN OF PALISADE PUBLIC WORKS DEPARTMENT. WATER FOR COMPACTION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
7. 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
8. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE WORK.
9. ANY OPEN EXCAVATION LEFT UNATTENDED SHALL BE BARRICADED AND FENCED OFF BY THE CONTRACTOR, FENCING, BARRICADING, AND OTHERWISE PROTECTION EXCAVATIONS SHALL BE INCLUDED IN THE COST OF EXCAVATION.

MISCELLANEOUS

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 2 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. REFER TO THE SURVEY TABULATION SHEET.
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 APPROVAL FOR EACH APPLICABLE PHASE OF WORK.
5. THE CONTRACTOR SHALL DETERMINE WHERE TO STOCKPILE MATERIAL OR STORE EQUIPMENT FOR THE PROJECT. TRAFFIC CONTROL MEASURES REQUIRED TO ACCOMMODATE MATERIAL AND EQUIPMENT STORAGE SHALL BE INCLUDED IN THE MHT. IF MATERIAL OR EQUIPMENT IS STORED ON PRIVATE PROPERTY, CONTRACTOR SHALL GET WRITTEN PERMISSION.
6. 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.
7. CONCRETE CRACK CONTROL JOINTING IN SIDEWALK AND CROSSWALK SHALL BE SPACED NO FURTHER THAN 10' ON CENTER, EQUALLY SPACED.
8. ALL CONCRETE SLAB EDGES SHALL BE TOOLED.
9. LIMITS OF DISTURBANCE SHALL BE CONFINED TO LIMITS OF REMOVALS AS SHOWN OR 18" FROM EDGE OF IMPROVEMENTS.

SPECIAL CONSTRUCTION REQUIREMENTS

1. THE CONTRACTOR SHALL SUBMIT A PLAN TO SHOW THE PHASING OF THE WORK. THE PLAN WILL SPECIFICALLY IDENTIFY HOW THE TRAVELING PUBLIC WILL BE PROTECTED AND HOW TRAFFIC WILL BE MAINTAINED THROUGH THE PROJECT WITHOUT DETOURS FOR THE DURATION OF THE PROJECT. THE PLAN SHALL BE SUBMITTED TO THE ENGINEER AT LEAST 5 WORKING DAYS PRIOR TO WHEN WORK BEGINS.
2. THE CONTRACTOR SHALL UTILIZE APPROVED CONCRETE WASHOUT STRUCTURE FOR ALL CONCRETE OPERATIONS.
3. THE CONTRACTOR'S PERSONNEL ON THE CONSTRUCTION SITE SHALL WEAR PERSONAL PROTECTIVE EQUIPMENT (INCLUDING HARD HATS AND SAFETY VESTS) AT ALL TIMES.
4. TIME RESTRICTIONS FOR PERFORMING WORK ARE 8:00 A.M. TO 5 P.M. CONTRACTOR SHALL REQUEST APPROVAL FROM THE ENGINEER FOR ALL NIGHT WORK.
5. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
6. ALL COSTS ASSOCIATED WITH THE FOREGOING REQUIREMENTS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
7. CONTRACTOR TO ENSURE THAT SURVEY123 IS COMPLETED ON ALL CURB RAMPS AFTER THEY ARE CONSTRUCTED.

MATERIALS

1. THE CONTRACTOR SHALL SUBMIT A PAVING (PATCHING) AND CONCRETE PLACEMENT 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. PAVING SHALL NOT BEGIN UNTIL THE ENGINEER HAS APPROVED THE SUBGRADE, THE PAVEMENT SUBGRADE SHALL BE TESTED FOR COMPACTION 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.
3. 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 HMA (GR. SX)(75)(PG64-22)	@ 147 LBS./CU. FT.
AGGREGATE BASE COURSE (CLASS 6)	@ 133 LBS./CU. FT

4. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT (SLOW-SETTING) AND 1 PART WATER.
5. 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
6. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THERON SHALL BE COMPLETED TO THE FULL AVAILABLE WIDTH WITHIN EACH PHASE OF CONSTRUCTION BEFORE A SUCCEEDING LAYER IS PLACED.
7. 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.
8. FOR ALL CONCRETE PAVING PLACEMENT, THE CONTRACTOR SHALL USE A CLEAR CONCRETE CURING COMPOUND.
9. DURING ALL SUBSURFACE ACTIVITIES, WORKERS SHALL BE ALERT FOR VISUAL AND OLFACTORY SIGNS OF CONTAMINATION. IF CONTAMINATION IS ENCOUNTERED, WORK SHALL STOP AND PROCEDURES ESTABLISHED IN THE CDOT 250 SPEC SHALL BE FOLLOWED. ANY CONTAMINATED SOILS OR LANDFILL MATERIAL SHALL BE PROPERLY HANDLED AND SAMPLED PRIOR TO DISPOSAL.

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CONTRACT ITEM NO.	CONTRACT SECTION NO.	CONTRACT ITEM	UNIT	PLAN	AS CONST.
1	201-00001	Clearing and Grubbing	ACRE	1	
2	202-00019	Removal of Inlet	EACH	2	
3	202-00200	Removal of Sidewalk	SY	501	
4	202-00203	Removal of Curb and Gutter	LF	4509	
5	202-00210	Removal of Concrete Pavement	SY	255	
6	202-00220	Removal of Asphalt Mat	SY	3609	
7	202-00250	Removal of Pavement Marking	SF	1776	
8	202-01000	Removal of Fence	LF	47	
9	203-00000	Unclassified Excavation	CY	344	
10	203-00050	Unsuitable Material	CY	10	
11	203-00450	Rock Removal	EACH	6	
12	203-01597	Potholing	HR	16	
13	207-00205	Topsoil (1' Depth)	CY	980	
14	208-00002	Erosion Log Type 1 (12 inch)	LF	1240	
15	208-00035	Aggregate Bag	LF	160	
16	208-00046	Pre-fabricated Concrete Washout Structure (Type 1)	EACH	2	
17	208-00054	Storm Drain Inlet Protection (Type II)	EACH	10	
18	208-00103	Removal and Disposal of Sediment (Labor)	HR	24	
19	208-00105	Removal and Disposal of Sediment (Equipment)	HR	24	
20	208-00106	Sweeping (Sediment Removal)	HR	24	
21	208-00207	Erosion Control Management (ECM)	DAY	16	
22	210-00810	Reset Ground Sign	EACH	18	
23	210-04010	Adjust Manhole	EACH	4	
24	212-00032	Soil Conditioning	ACRE	0.02	
25	212-00700	Organic Fertilizer	LB	30.00	
26	212-00701	Compost (Mechanically Applied)	CY	1.00	
27	212-00703	Humate	LB	20.00	
28	212-00706	Seeding (Native) Drill	ACRE	0.01	
29	213-00003	Mulching (Weed Free Hay)	ACRE	0.01	
30	213-00008	Wood (Organic) Mulch (Bark Mulch) (3" Depth)	CY	94	
31	213-00009	Wood (Organic) Mulch (NutriMulch) (3" Depth)	CY	54	
32	213-00061	Mulch Tackifier	LB	2	
33	213-00067	Stone Decomposed Granite (3" Depth)	CY	163	
34	213-00462	Metal Landscape Border (3/16 X 5-1/2 Inch)	LF	952	
35	214-00235	Deciduous Tree (3.5" Caliper)	EACH	19	
36	214-00506	Evergreen Tree (6 foot) (Ball & Burlap)	EACH	20	
37	214-00508	Evergreen Tree (8 foot) (Ball & Burlap)	EACH	35	
38	214-00350	Deciduous Shrubs (5 Gallon)	EACH	48	
39	214-00650	Evergreen Shrubs (5 Gallon)	EACH	837	
40	214-00032	Deciduous Shrubs (2 Gallon)	EACH	243	
41	214-01000	Bulb	EACH	93	
42	214-00850	Groundcover Vines (5 Gallon Container)	EACH	18	
43	214-00910	Perennials (1 Gallon Container)	EACH	197	
44	240-00000	Wildlife Biologist	HOUR	8	
45	250-00010	Environmental Health and Safety Management	LS	1	
46	250-00050	Monitoring Technician	HOUR	16	
47	250-00110	Health and Safety Officer	HOUR	16	
48	250-00224	Hazardous Waste Disposal (Radioactive)	CY	20	
49	304-06007	Aggregate Base Course (Class 6)	CY	928	
50	403-00721	Hot Mix Asphalt (Patching) (Asphalt)	TON	609	
51	412-00600	Concrete Pavement (6-inch)	SY	284	
52	420-00500	Geotextile (Paving)	SY	10	
53	603-00100	10 Inch Non-Reinforced Concrete Pipe	LF	10	
54	604-19105	Inlet Type R L5 (5 Foot)	EACH	2	
55	604-50700	Meter Vault	EACH	1	
56	607-11455	Fence Wood (Privacy)	LF	46	
57	607-11525	Fence (Plastic)	LF	312	
58	608-00000	Concrete Sidewalk (4-inch)	SY	737	
59	608-00010	Concrete Curb Ramp	SY	99	
60	608-10010	Sidewalk Drain	EACH	1	
61	609-21010	Curb and Gutter Type 2 (Section I-B)	LF	2097	
62	609-21020	Curb and Gutter Type 2 (Section II-B)	LF	1345	
63	609-22022	Curb, Gutter, and Sidewalk Type 2 (Section II-B)	LF	779	
64	609-24006	Gutter Type 2 (6 Foot)	LF	71	
65	613-00200	3/4" Electrical Conduit	LF	800	
66	613-07003	Type Three Pull Box	EACH	8	
67	613-10000	Wiring	LF	800	
68	613-13000	Luminaire (LED)	EACH	10	
69	614-00011	Sign Panel (Class I)	SF	20.00	
70	614-01502	Steel Sign Support (2-Inch Round) (Post & Socket)	LF	99	
71	614-72860	Pedestrian Push Button	EACH	6	
72	614-80001	Flashing Beacon (Solar Powered)	EACH	2	
73	620-00020	Sanitary Facility	EACH	1	
74	623-01712	1-1/2" Backflow Preventor	EACH	1	
75	623-07012	1-1/2" Water Meter	EACH	1	
76	623-03112	1-1/2" Automatic Control Valve (Master)	EACH	1	
77	623-04008	1 Inch Quick-Coupler Valve	EACH	1	
78	623-05012	1-1/2 Inch Gate Valve	EACH	3	
79	623-00604	4 Inch Plastic Pipe (Irrigation/Sleeve)	LF	460	
80	623-00600	1-1/2 Inch PVC (Irrigation Main)	LF	1150	
81	623-02004	1/2 Inch Drip Drain Valve	EACH	40	
82	623-02008	1 Inch Manual Drain Valve	EACH	2	
83	623-03004	1 Inch Drip Zone Control Valve	EACH	12	
84	623-06900	Valve Box	EACH	12	
85	623-08148	48 Station Automatic Controller	EACH	1	
86	623-04003	Controller Communication Cable	LF	800	
87	623-00601	Lateral Plastic Pipe	LF	890	
88	623-00162	Drip Emitter Tubing	LF	18782	
89	623-00410	1-1/4 Inch Drip Manifold	EACH	960	
90	625-00000	Construction Surveying	LS	1	
91	626-00000	Mobilization	LS	1	
92	626-01114	Public Information Management (Tier IV)	DAY	80	
93	627-00013	Pavement Paint Marking	GAL	52	
94	627-00031	Raised Pavement Marker	EACH	2	
95	627-30105	Pavement Marking Paint (Word-Symbol)	SF	97	
96	627-30110	Pavement Marking Paint (Xwalk-Stop Line)	SF	288	
97	627-30411	Preformed Thermoplastic Pavement Marking (Xwalk-Stop Line)(Special)	SF	180	
98	630-00000	Flagging	HR	1280	
99	630-00007	Traffic Control Inspection	DAY	32	
100	630-00012	Traffic Control Management	DAY	80	
101	630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	2	
102	630-80341	Construction Traffic Sign (Panel Size A)	EACH	34	
103	630-80360	Drum Channelizing Device	EACH	40	
104	630-80363	Drum Channelizing Device (With Light) (Flashing)	EACH	40	
105	630-80370	Concrete Barrier	LF	100	
106	630-80380	Traffic Cone	EACH	25	
107	630-80393	Stackable Vertical Panel	EACH	50	
108	700-70010	F/A Minor Contract Revisions	FA	1	
109	700-70260	F/A Water Tap (Hot tap 8" to 1-1/2")	FA	1	
110	700-70380	F/A Erosion Control	FA	1	
111	700-70587	F/A Hazardous Waste Disposal (Off-Site Disposal)	FA	1	
112	950-00302	Aggregate Base Course (3" Depth)	TON	162	

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HIGHWAY 6 MMOF
SUMMARY OF QUANTITIES

Designer: EWS
Detailer: MWF
Sheet Subset: G
Structure Numbers
Subset Sheets: 9 of 18

Project No./Code
M021-004 / 23961
Drawing Number G-009

REMOVALS, ADJUSTMENTS, RELOCATES, AND RESET ITEMS

STATION/LOCATION	CLEARING (ACRE)	REMOVAL OF SIDEWALK (SY)	REMOVAL OF CURB & GUTTER (LF)	REMOVAL OF CONCRETE PAVEMENT (SY)	REMOVAL OF ASPHALT MAT (SY)	REMOVAL OF GRAVEL SURFACE (CY) (UNCLASSIFIED EXCAVATION)	RESET GROUND SIGN (EA)	ADJUST MANHOLE (EA)	REMOVAL OF PAVEMENT MARKING (SF)	REMOVAL OF INLET (EA)	REMOVAL OF FENCE (LF)	NOTES
STA 4+21, 9.8' L TO STA 6+20, 7.9' L			403									
STA 7+00, 7.8' L TO STA 8+29, 8.7' L			263									
STA 8+40, 6.7' L TO STA 12+79, 7.6' L			885									
STA 7+00, 37.6' L TO STA 12+87, 37.7' L	1.00	292	587					1				
STA 13+58, 7.9' L TO STA 14+76, 7.8' L			243									
STA 14+17, 10.2' L TO STA 14+27, 5.2' L				6								
STA 15+60, 7.5' L TO STA 16+14, 7.4' L			112									
STA 16+95, 7.9' L TO STA 19+42, 7.7' L			500									
STA 6+87, 29.4' R TO STA 14+82, 39.9' R		119	841	117								
STA 14+75, 24.3' R TO STA 15+28, 30.3' R				39	89							
STA 15+29, 39.7' R TO STA 20+26, 11.2' R		7	519	93								
STA 13+49, 39.4' L TO STA 16+18, 39.4' L		73	135								47	
STA 17+09, 39.7' L TO STA 17+30, 39.7' L		10	21									
STA 1+50 TO STA 20+29									1766			
STA 6+91, 28.8' R										1		
STA 8+54, 47.9' R								1				
STA 9+90, 45.7' R								1				
STA 20+15, 20.9' R								1				
STA 20+25, 14.1' R										1		
STA 4+29, 8.6' L							1					
STA 7+77, 7.3' L							1					
STA 7+08, 8.2' L							1					
STA 8+40, 7.5' L							1					
STA 8+45, 48.4' L							1					
STA 7+77, 30.2' R							1					
STA 6+90, 36.2' R							1					
STA 8+30, 29.8' R							1					
STA 8+70, 30.2' R							1					
STA 9+01, 8.5' L							1					
STA 9+01, 48.6' L							1					
STA 13+78, 30.0' R							1					
STA 15+68, 7.3' L							1					
STA 15+36, 40.5' R							1					
STA 16+17, 29.8' R							1					
STA 16+90, 50.3' L							1					
STA 17+57, 30.7' R							1					
STA 4+21, 9.8' L TO STA 6+20, 7.9' L					84							
STA 7+01, 8.0' R TO STA 12+87, 23.4' R					1484							
STA 6+79, 50.45' R TO STA 14+86, 45.4' R					592							
STA 7+00, 37.6' L TO STA 12+87, 37.7' L					130							
STA 13+46, 23.4' L TO STA 14+75, 8.0' R					395							
STA 13+49, 39.7' L TO STA 16+18, 37.4' L					30							
STA 15+42, 11.4' L TO STA 16+21, 4.2' L					55							
STA 15+25, 45.3' R TO STA 20+52, 21.7' R					126							
STA 16+87, 7.9' R TO STA 19+37, 18.3' L					570							
STA 17+09, 39.7' L TO STA 17+30, 37.7' L					5							
STA 9+49.3, 8.11' R					6							
STA 9+49.0, 23.4' L					6							
STA 14+50.0, 8.0' R					6							
STA 15+83.7, 4.0' L TO STA 15+87.7, 22.0' R					12							
STA 15+83.7, 11.2' L					12							
STA 17+24.3, 7.1' R					7							
STA 8+45, 46.6' L TO STA 12+87, 59.6' L						112						
STA 6+83, 50.4' R TO STA 19+42, 24.9' R						232						
STA 19+32, 8.2' L							1					
TOTALS	1.0	501	4509	255	3609	344	18	4	1766	2	47	

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HIGHWAY 6 MMOF
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M021-004 / 23961
Drawing Number G-010
Sheet Number 10 of 84

SURFACE ITEMS													
STATION/LOCATION	HOT MIX ASPHALT (PATCHING) (ASPHALT)	AGGREGATE BASE COURSE (CLASS 6)	CONCRETE PAVEMENT (6-INCH)	CONCRETE SIDEWALK (4-INCH)	CONCRETE CURB RAMP	GUTTER TYPE 2 (6 FOOT)	CURB AND GUTTER TYPE 2 (SECTION II-B)	CURB AND GUTTER TYPE 2 (SECTION I-B)	CURB, GUTTER, AND SIDEWALK TYPE 2 (SECTION II-B)	INLET TYPE R (5 FOOT)	SIDEWALK DRAIN	10 INCH NON-REINFORCED CONCRETE PIPE	NOTES
	(TON)	(CY)	(SY)	(SY)	(SY)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(LF)	
STA 6+90, 57.6' L TO STA 12+87, 41.5' L	51	139		355			522		66				
STA 6+97, 4.1' R TO 12+89, 19.4' L	172	165		20	9			1188					
STA 13+49, 7.7' L TO STA 14+67, 7.7' L	25	27						265					
STA 15+44, 7.7' L TO STA 16+19, 7.7' L	14	16						156					
STA 16+90, 7.7' L TO STA 19+35, 15.5' L	70	71		21	10			488					
STA 6+81, 41.2' R TO STA 14+84, 39.7' R	112	213		341	34		642		198				
STA 15+27, 43.9' R TO STA 20+49, 21.3' R	67	129			29		115		425				
STA 10+34, 26.64' R TO STA 10+75, 26.63' R		25	98										
STA 12+53, 26.1' R TO STA 12+84, 26.2' R		21	84										
STA 14+75, 24.3' R TO STA 15+28, 30.3' R	23	27				71							
STA 16+30, 26.0' R TO STA 16+76, 26.0' R		21	83										
STA 13+49, 39.4' L TO STA 16+18, 39.4' L	12	31	19				45		90		1		
STA 4+21, 9.8' L TO STA 6+20, 7.9' L	41	27											
STA 9+34, 39.7' L TO STA 9+55, 39.7' L		1			6								
STA 17+09, 39.7' L TO STA 17+30, 39.7' L	2	4			11		21						
STA 9+49.3, 8.11' R	2	2											
STA 9+49.0, 23.4' L	2	2											
STA 14+50.0, 8.0' R	2	2											
STA 15+83.7, 4.0' L TO STA 15+87.7, 22.0' R	5	3											
STA 15+83.7, 11.2' L	5	3											
STA 17+24.3, 7.1' R	3	2											
STA 6+91, 29.0' R										1		5	
STA 20+25, 13.9' R										1		5	
TOTALS	609	928	284	737	99	71	1345	2097	779	2	1	10	

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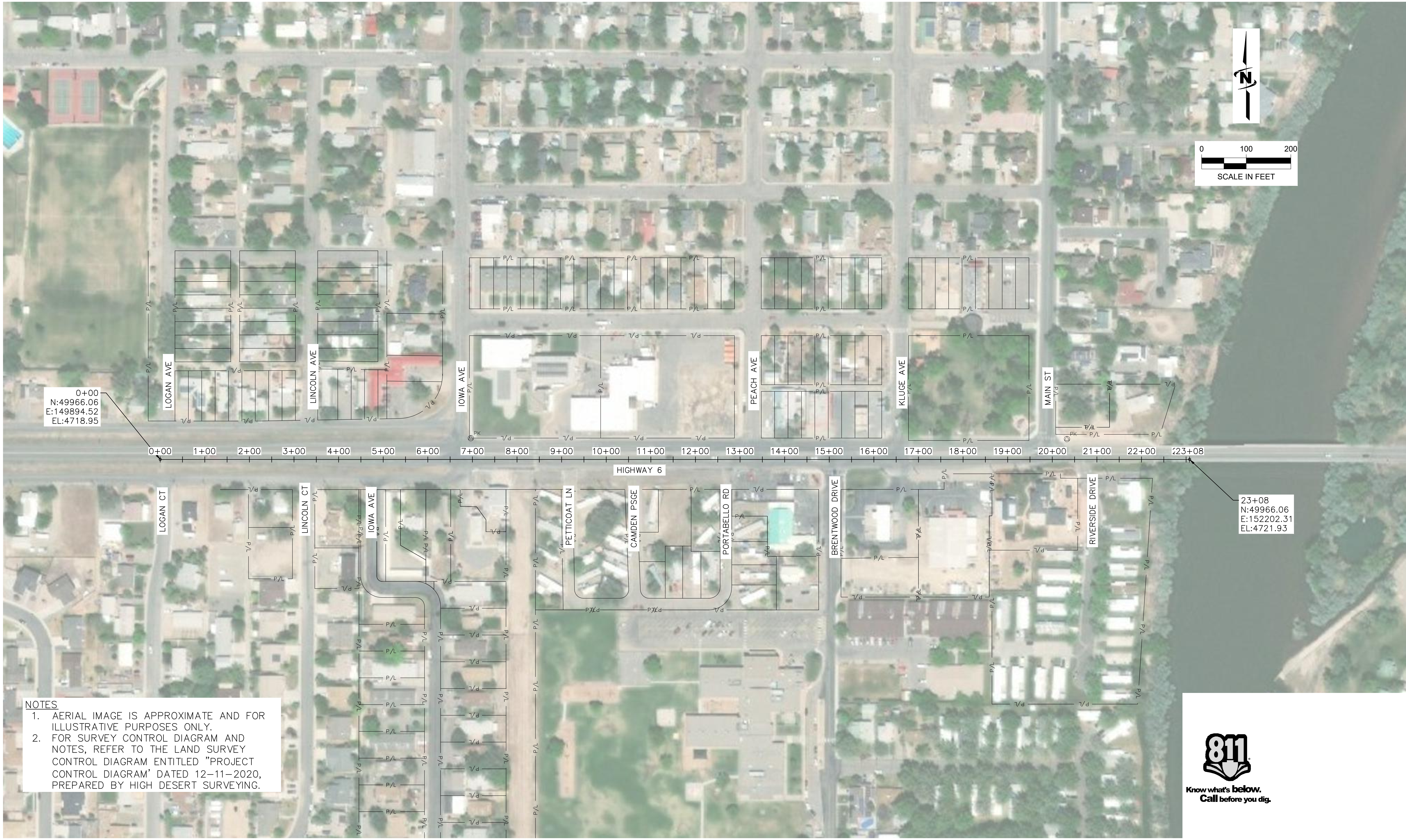

NOTES

1. AERIAL IMAGE IS APPROXIMATE AND FOR ILLUSTRATIVE PURPOSES ONLY.
2. FOR SURVEY CONTROL DIAGRAM AND NOTES, REFER TO THE LAND SURVEY CONTROL DIAGRAM ENTITLED "PROJECT CONTROL DIAGRAM" DATED 12-11-2020, PREPARED BY HIGH DESERT SURVEYING.

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Drawing Number G-012
Sheet Number 12 of 84

Plot Date:11/8/2021 2:01 PM Plotted By: Matthew Filla
Date Created:5/3/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEETS\81-20-015_V-10X.DWG

Colorado Department of Transportation
CDOT
606 South 9th Street
Grand Junction, CO 81501-2769
Phone: (970) 683-6351 Fax: (970) 683-6396
Region 3

Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials

Project Control Diagram			
Title Sheet			
Project Number: MTF M021-004			
Project Location: US 6 - MP 42 to MP 44			
Palisade, Mesa County, CO			
Project Code:	Last Mod. Date	Subset	Sheet No.
23961	12-11-2020	13 OF 18	13

DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO

PROJECT CONTROL DIAGRAM

Palisade - US 6 Multi-Modal Project
US 6 MP 42 to MP 44
Section 3, T1S, R2E, Ute Meridian
Section 9, T 11S, R98W, 6th Principal Meridian
Town of Palisade, County of Mesa

SHEET NO.	INDEX OF SHEETS
3.01	(1) Title Sheet
3.02	(1) Monument Coordinate Tables
3.03	(1) Plan Sheet
	(3) Total Sheets

SECTION CORNER MONUMENT
QUARTER, SIXTEENTH, AND SENCTION CORNERS
SET EASEMENT MONUMENT
TEMPORARY EASEMENT POINT
RIGHT OF WAY MARKER
BLM BLM MARKER
PP PROPERTY PIN
NOAA NOAA MARKER
QUARTER, SIXTEENTH, AND SENCTION CORNERS
FED FEDERAL MONUMENT
WC WC WITNESS CORNER
BM BENCH MARK
USGS USGS MARKER
LOCAL OR PLSS MONUMENT
SECONDARY CONTROL MONUMENT
ROW RIGHT OF WAY MARKER

N 9.88 E 3.81 EL 0.00 PROJECT CONTROL MONUMENT
N 10.13 E 3.81 EL 0.00 DENSIFICATION CONTROL MONUMENT
N 10.38 E 3.81 EL 0.00 HIGH ACCURACY REFERENCE NETWORK CONTROL MONUMENT

Note:

For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2012. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

General Notes:

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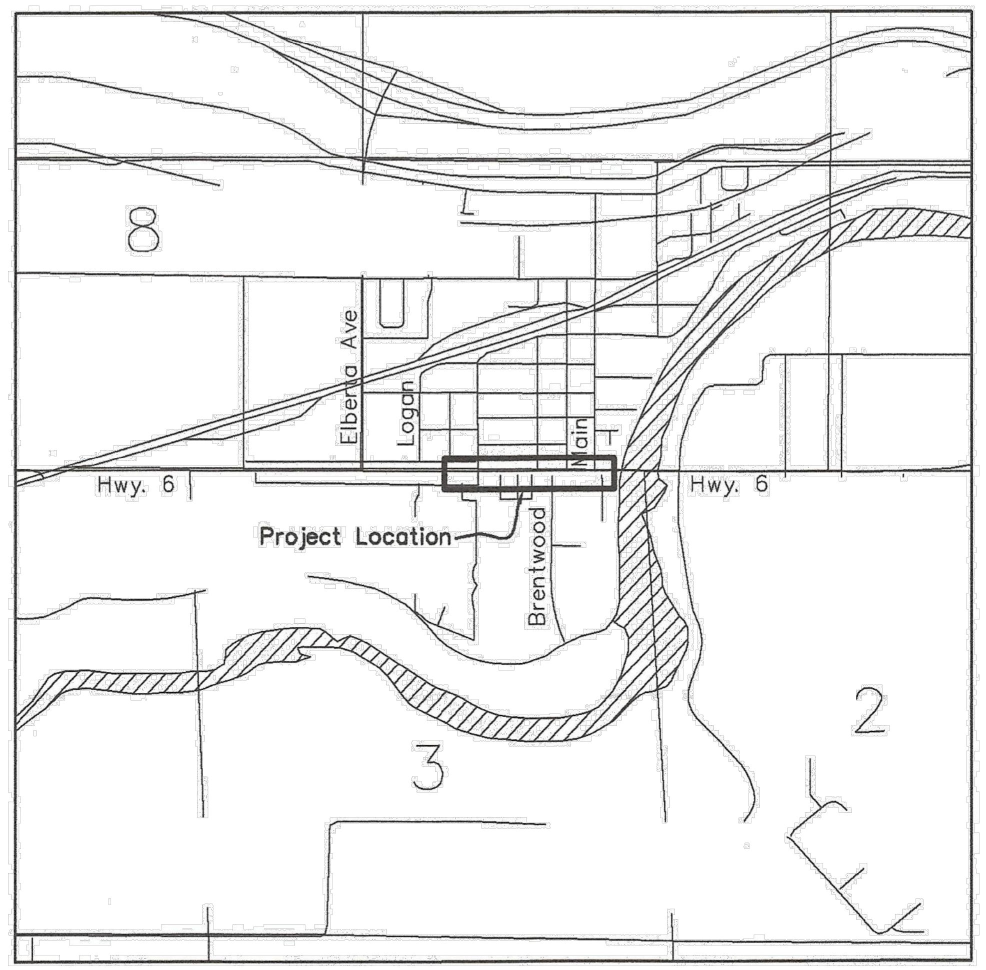
3. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDOT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.

4. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.



PROJECT LOCATION MAP

1"=660'
0' 330' 660' 1320'
N

Basis of Bearings: Bearings used in the calculations of coordinates are relative to the Mesa Couty Local Coordinate System (MCLCS) Zone "GVA" and based upon a Transverse Mercator grid bearing of S89°59'55"E from MCLCS GPS ID No. S384 to MCLCS GPS ID No. P181. Both locations are alliquot survey monuments and marked appropriately for their location and control position. This survey data was obtained from Global Positioning System (GPS) survey based on the Mesa County Virtual Reference Network (MCVRN).

Basis of Elevations: Project elevations are based on MCLCS GPS ID No. S384, said point also being the North ¼ corner of Section 3, Township 1 South, Range 2 East of the Ute Meridian. The benchmark is monumented by a Mesa County Brass Cap stamped ¼ whose published elevation is 4719.87 feet. All elevations shown hereon are relative thereto.

Geodetic Coordinate Datum: Project coordinates are based on the Mesa County Local Coordinate System (MCLCS) Zone "GVA" being a modified Transverse Mercator Projection.

Projection Type: Transverse Mercator
POINT OF ORIGIN (SN01) AND CENTRAL MERIDIAN:
Latitude: 39°06'22.72756" North
Longitude: 108°32'01.43463" West
Northing: 50,000 Ft
Easting: 100,000 Ft
Ground Scale Factor: 1.000218181798
Project Scale Factor Height: 4644 Ft (NAVD88)
Geoid Model: MESAC012

NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)

I, J. Ben Elliott, a Professional Land Surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Land Survey Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This Statement is not a guaranty or warranty, either expressed or implied.

PLS No. 38146

COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
J. BENJAMIN ELLIOTT
38146
1/11/21

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Phone: (970) 683-6351 Fax: (970) 683-6396

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
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PROJECT CONTROL DIAGRAM

Palisade – US 6 Multi-Modal Project
US 6 MP 42 to MP 44
Section 3, T1S, R2E, Ute Meridian
Section 9, T 11S, R98W, 6th Principal Meridian
Town of Palisade, County of Mesa

PRIMARY CONTROL / ALIQUOT MONUMENT COORDINATE TABLE

MCLCS Designation	Geodetic Coordinates NAD83 (2011)		Ellip Height (ft)	MCLCS Zone "GVA"		Elevation (ft) NAVD88	Descritpion
	Latitude (N)	Longitude (W)		Northing (ft)	Easting (ft)		
T0565	39°06'22.05936"	108°21'43.05400"	4664.036	49978.48	148756.52	4718.64	Mesa County SIMS, West 1/16 Corner, North Line Sec. 3, T1S, R2E Ute Meridian
S384	39°06'22.03664"	108°21'26.31678"	4665.326	49978.71	150076.18	4719.87	Mesa County SIMS, North 1/4 Corner Sec. 3, T1S, R2E Ute Meridian
T614	39°06'22.00999"	108°21'09.57918"	4666.569	49978.61	151395.87	4721.09	Mesa County SIMS, East 1/16 Corner, North Line Sec. 3, T1S, R2E Ute Meridian
P181	39°06'21.98411"	108°20'52.87799"	4645.374	49978.64	152712.69	4699.85	Mesa County SIMS, NE Corner Sec. 3, T1S, R2E Ute Meridian

SECONDARY CONTROL / ESTABLISHED BY HIGH DESERT SURVEYING

Point Number	Geodetic Coordinates NAD83 (2011)		Ellip Height (ft)	MCLCS Zone "GVA"		Elevation (ft) NAVD88	Descritpion
	Latitude (N)	Longitude (W)		Northing (ft)	Easting (ft)		
10	39°06'21.69008"	108°21'24.53812"	4662.915	49943.91	150216.48	4717.47	Type 6 – No. 5 Rebar with Punch Mark (Frontage Road/Lincoln Ave.)
11	39°06'22.37184"	108°21'19.78834"	4664.403	50013.63	150590.85	4718.95	Mag Nail – Set Flush in Concrete (Hwy. 6/Iowa Ave.)
12	39°06'22.34857"	108°21'12.33184"	4665.385	50012.44	151178.76	4719.91	Mag Nail – Set Flush in Concrete (Hwy. 6/Peach Ave.)
13	39°06'21.55319"	108°21'09.13483"	4666.700	49932.45	151430.99	4721.22	Mag Nail – Set Flush in Concrete (Hwy. 6/Brentwoood Dr.)
14	39°06'22.32819"	108°21'02.83824"	4667.429	50011.87	151927.29	4721.93	Mag Nail – Set Flush in Concrete (Hwy. 6/Main St.)

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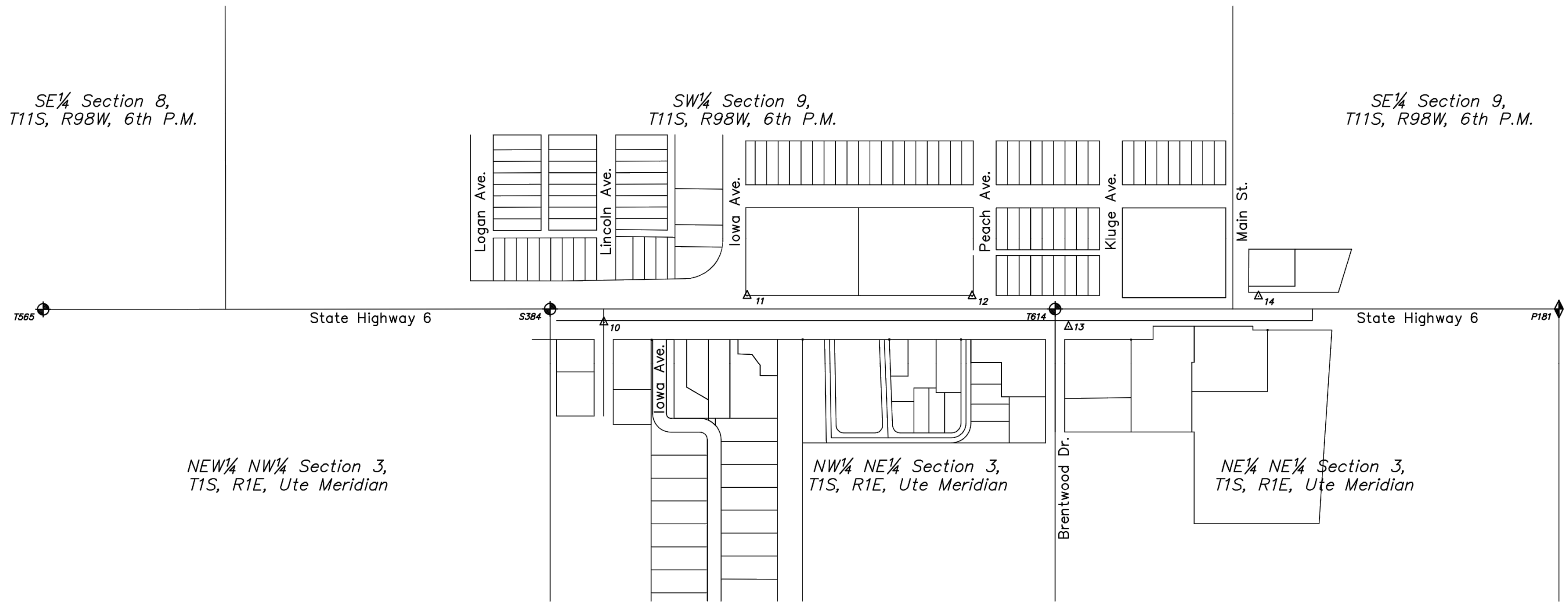
Project Control Diagram
Plan Sheet

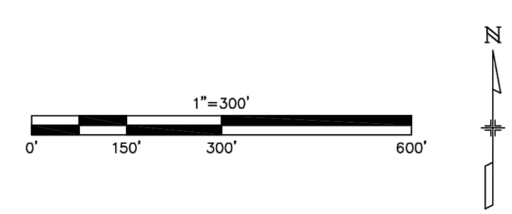
Project Number: MTF M021-004
Project Location: Palisade, Mesa County, CO

Project Code:	Last Mod. Date	Subset	Sheet No.
23961	12-11-2020	15 OF 18	15

PROJECT CONTROL DIAGRAM

Palisade – US 6 Multi-Modal Project
US 6 MP 42 to MP 44
Section 3, T1S, R2E, Ute Meridian
Section 9, T 11S, R98W, 6th Principal Meridian
Town of Palisade, County of Mesa





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Land Survey Control Diagram
Title Sheet
Project Number: MTF M021-004
Project Location: US 6 - MP 42 to MP 44
Palisade, Mesa County, CO

Project Code:	Last Mod. Date	Subset	Sheet No.
23961	12-11-2020	16 OF 18	16

DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO
LAND SURVEY CONTROL DIAGRAM

Palisade – US 6 Multi-Modal Project
US 6 MP 42 to MP 44
Section 3, T1S, R2E, Ute Meridian
Section 9, T 11S, R98W, 6th Principal Meridian
Town of Palisade, County of Mesa

SECTION CORNER MONUMENT
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RIGHT OF WAY MARKER
BLM
BLM MARKER
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SECONDARY CONTROL MONUMENT
ROW
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N 9.88
E 3.81
EL 0.00
PROJECT CONTROL MONUMENT

N 10.13
E 3.81
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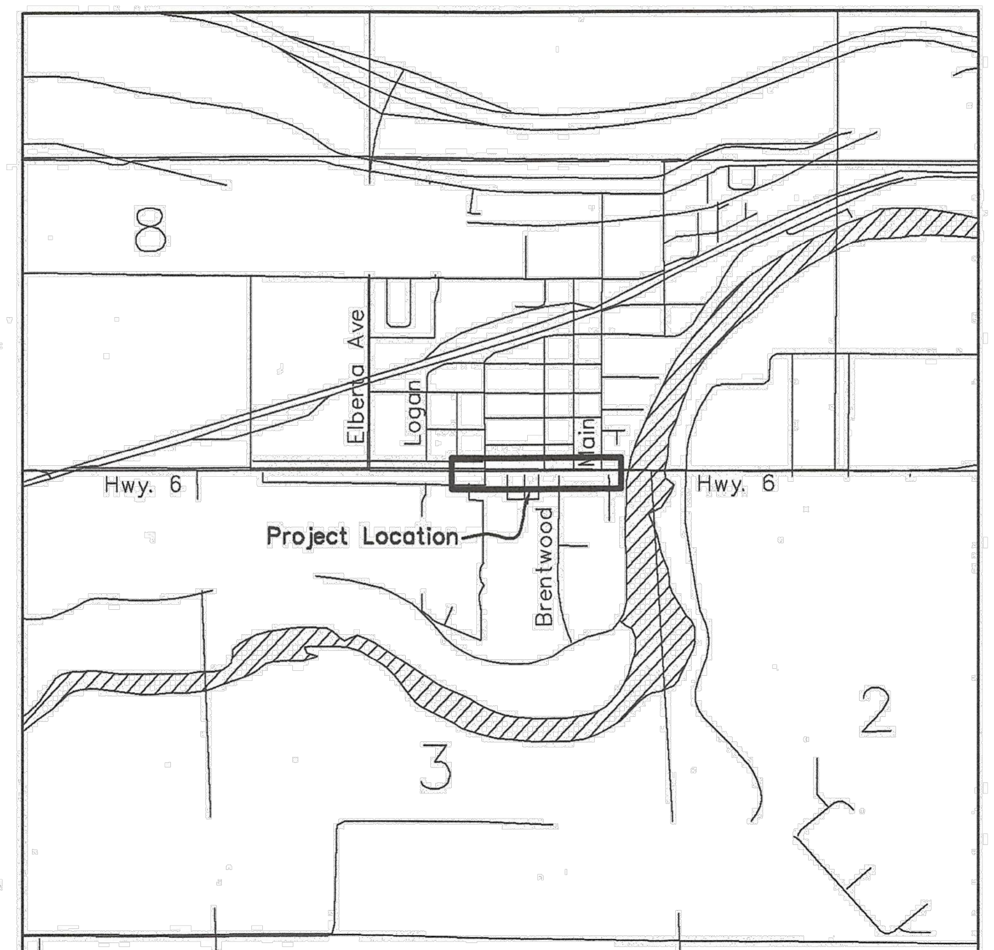

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JOHN BENJAMIN ELLIOTT
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PROFESSIONAL LAND SURVEYOR
1/11/21

LAND SURVEY CONTROL DIAGRAM

Palisade – US 6 Multi-Modal Project
US 6 MP 42 to MP 44
Section 3, T1S, R2E, Ute Meridian
Section 9, T 11S, R98W, 6th Principal Meridian
Town of Palisade, County of Mesa

FOUND BOUNDARY MONUMENT COORDINATE TABLE

MCLCS Designation	Geodetic Coordinates NAD83 (2011)		MCLCS Zone "GVA"		Descritpion
	Latitude (N)	Longitude (W)	Northing (ft)	Easting (ft)	
1487	N39°06'22.74854"	W108°21'28.22048"	50050.46	149925.94	Yellow Plastic Cap LS30111
1492	N39°06'21.25579"	W108°21'28.31668"	49899.38	149918.65	Yellow Plastic Cap LS30111
1503	N39°06'21.25144"	W108°21'27.36531"	49899.09	149993.66	No. 6 Rebar
1566	N39°06'21.24697"	W108°21'26.10125"	49898.83	150093.33	Yellow Plastic Cap LS14113
1766	N39°06'21.23180"	W108°21'24.85369"	49897.49	150191.70	Yellow Plastic Cap LS14113
1767	N39°06'21.23276"	W108°21'24.98135"	49897.56	150181.63	Yellow Plastic Cap LS4113
1822	N39°06'21.23385"	W108°21'22.96027"	49897.98	150340.98	Yellow Plastic Cap LS14113
2205	N39°06'22.74413"	W108°21'27.07682"	50050.19	150016.11	Aluminum Cap LS38146
2215	N39°06'22.74267"	W108°21'26.69554"	50050.10	150046.18	Aluminum Cap LS38146
2240	N39°06'22.74404"	W108°21'25.55259"	50050.41	150136.29	No. 5 Rebar
2723	N39°06'21.23736"	W108°21'17.94982"	49899.11	150736.04	No. 5 Rebar
2843	N39°06'21.23310"	W108°21'15.07704"	49899.13	150962.54	No. 5 Rebar
2925	N39°06'21.22911"	W108°21'12.70066"	49899.10	151149.91	Aluminum Cap Illegible
5001	N39°06'21.55141"	W108°21'00.52277"	49933.64	152110.02	No. 5 Rebar
5048	N39°06'21.45856"	W108°21'02.53372"	49923.92	151951.49	Yellow Plastic Cap LS30111
5321	N39°06'21.21822"	W108°21'07.06273"	49898.88	151594.44	Yellow Plastic Cap LS14113

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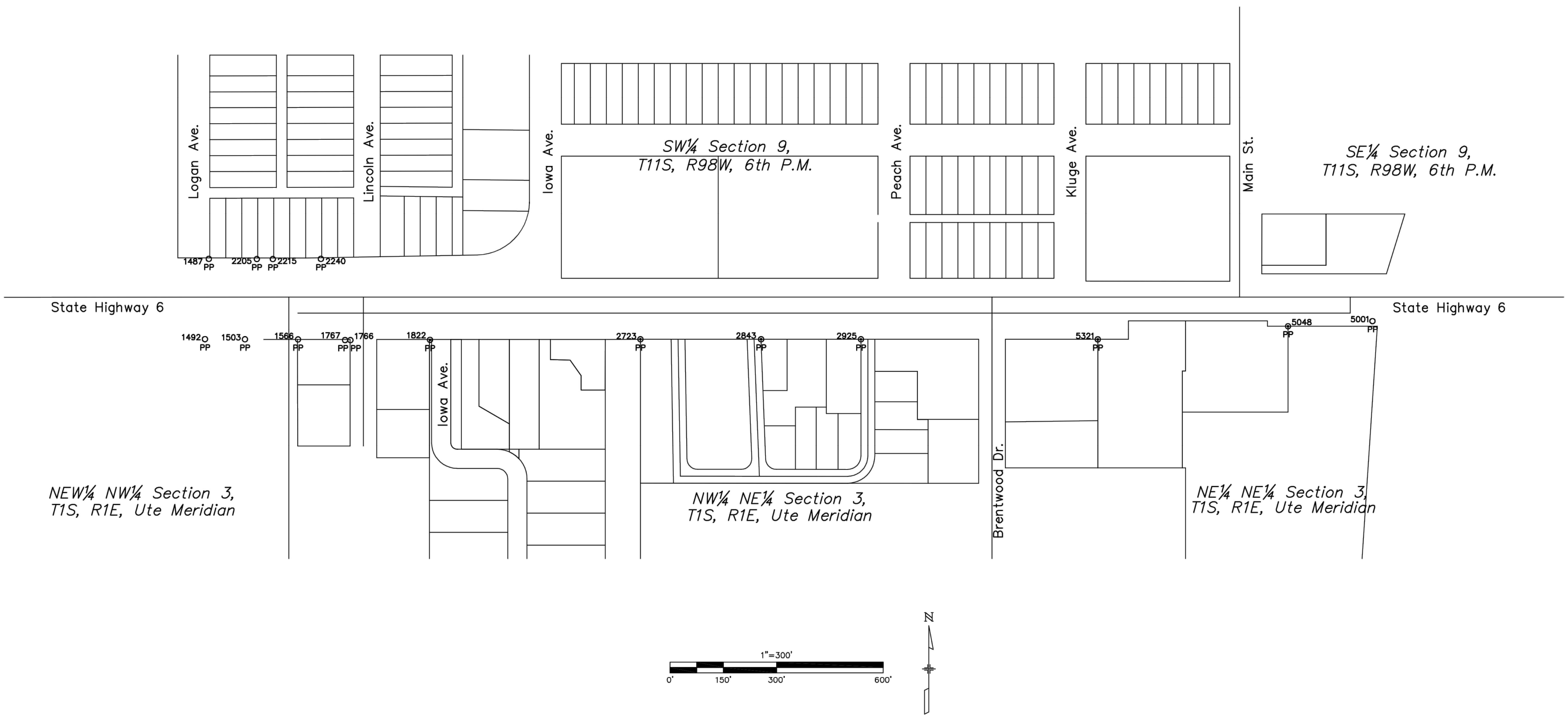
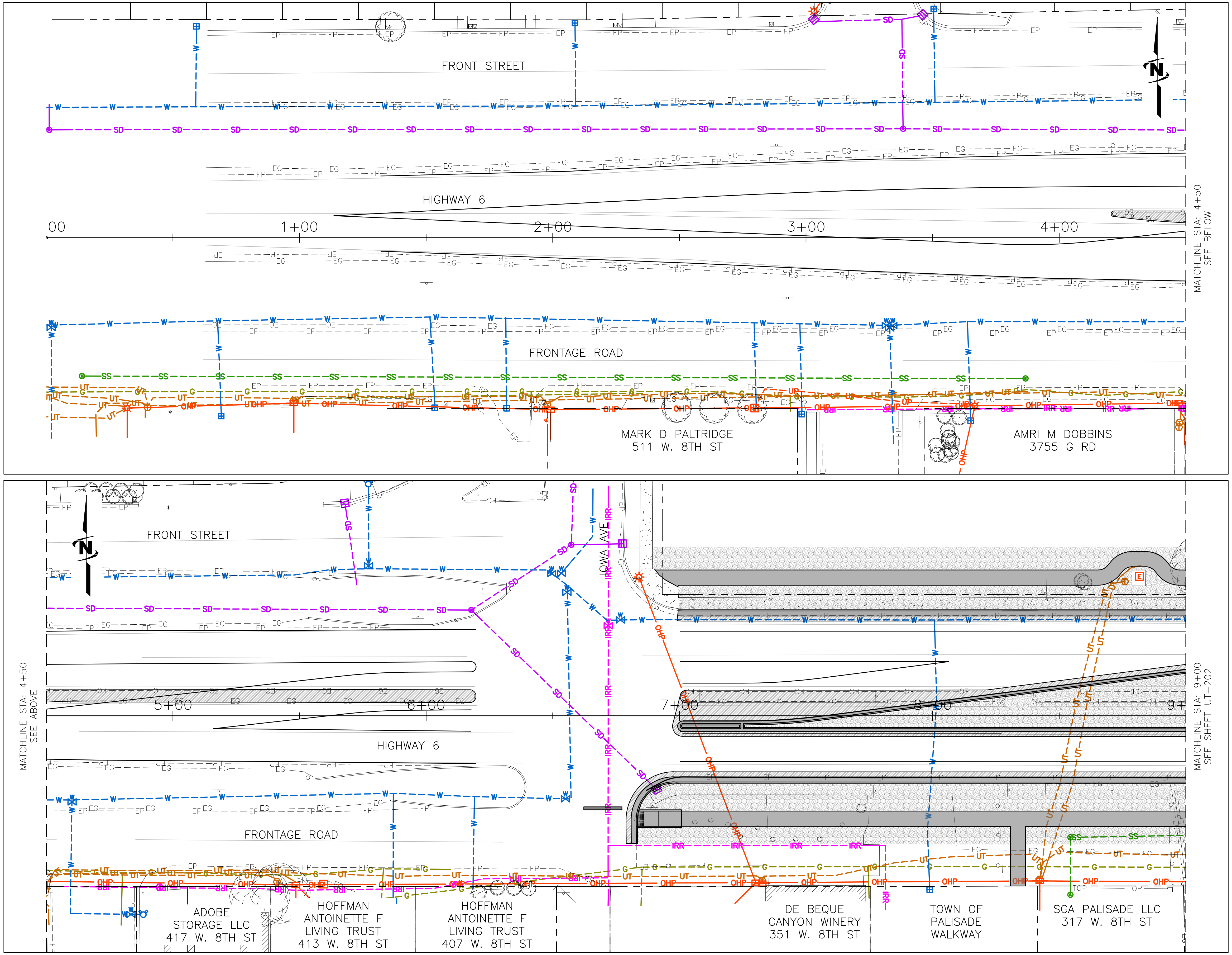
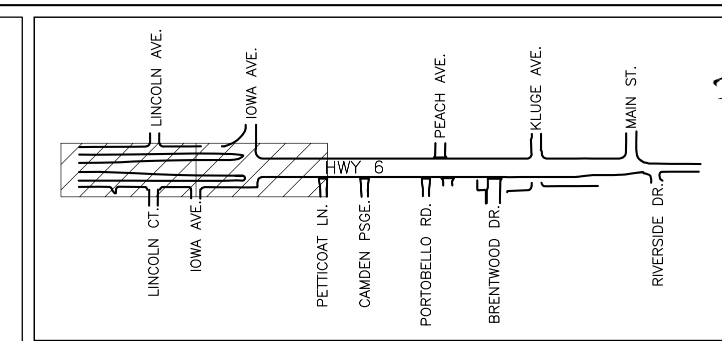
LAND SURVEY CONTROL DIAGRAM

Palisade – US 6 Multi-Modal Project
US 6 MP 42 to MP 44
Section 3, T1S, R2E, Ute Meridian
Section 9, T 11S, R98W, 6th Principal Meridian
Town of Palisade, County of Mesa







UTILITY LEGEND	DESCRIPTION	UTILITY OWNER
G	GAS LINE (QL C)	XCEL ENERGY
OHP	OVERHEAD ELECTRIC (QL C)	XCEL ENERGY
UP	UNDERGROUND ELECTRIC (QL C)	XCEL ENERGY
UT	FIBER OPTIC / TELEPHONE (QL C)	SPECTRUM
W	DOMESTIC WATER PIPE (QL C)	TOWN OF PALISADE
SS	SANITARY SEWER (QL B)	TOWN OF PALISADE
SD	STORM SEWER (QL B)	TOWN OF PALISADE
IRR	IRRIGATION WATER (QL C)	PALISADE PIPES AND LATERALS

NOTES

1. SUE INVESTIGATION WAS NOT PERFORMED, ITENDITY OF UTILITY OWNERS HAS NOT BEEN CONFIRMED.
2. VALVES SHALL BE PROTECTED AND REMAIN ACCESSIBLE TO TOWN UTILITY CREWS FOR THE DURATION OF CONSTRUCTION.
3. 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 EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUES, 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.

0 20 40
SCALE IN FEET

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

Plot Date: 11/8/2021 2:02 PM Plotted By: Matthew Filo
Date Created: 10/11/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEETS\81-20-015_UT-20X.DWG

Print Date: 11/8/2021
Scale: 1"=40'

J-U-B ENGINEERS, INC.
305 South Main Street #6
Palisade, CO 81526
Phone: (970) 208-8508

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Date:	Comments

TOWN OF PALISADE COLORADO
175 East Third Street
Palisade, CO 81526
Phone: (970) 464-1116

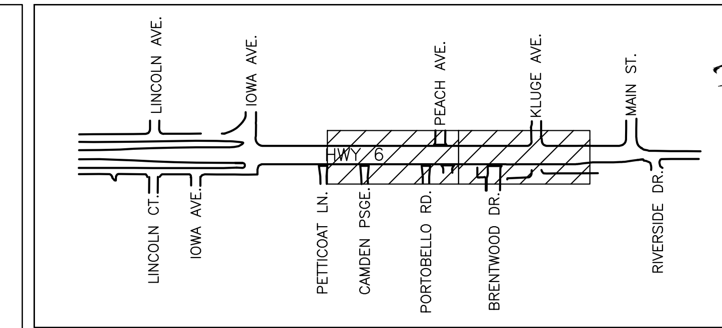
COLORADO
Department of Transportation

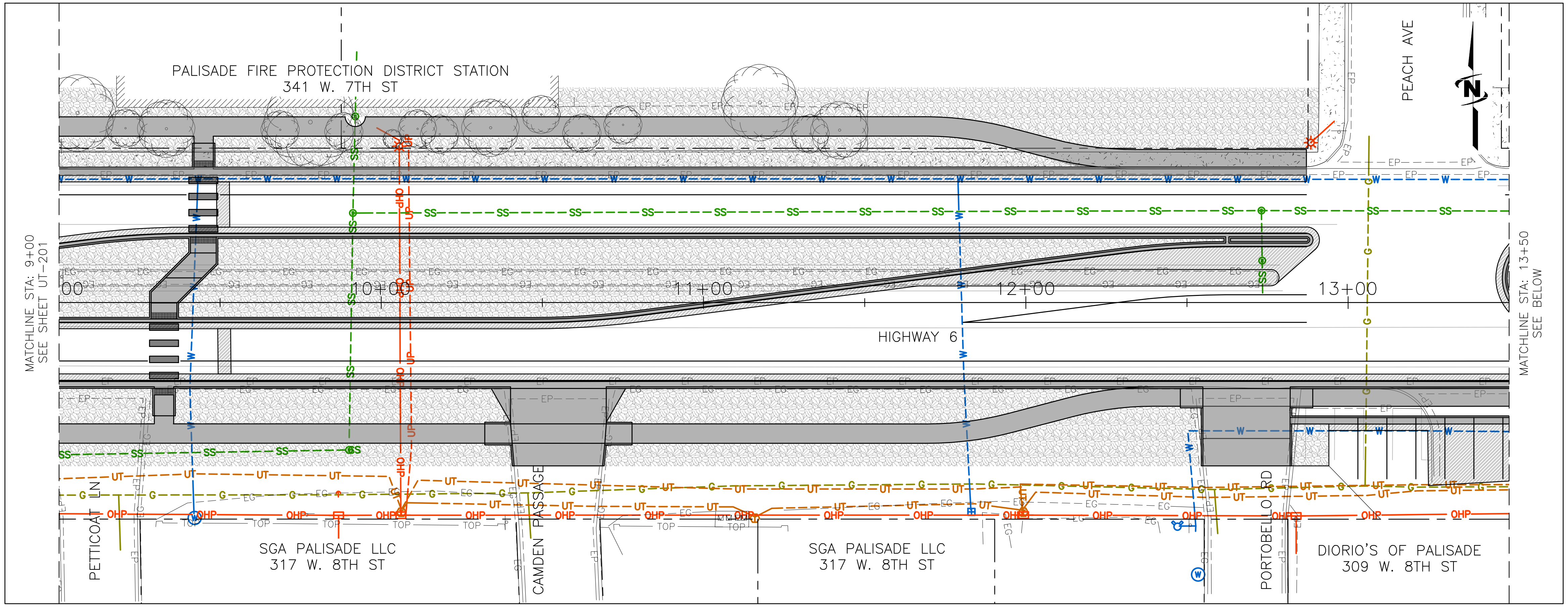
Ad Set
No Revisions:
Revised:
Void:

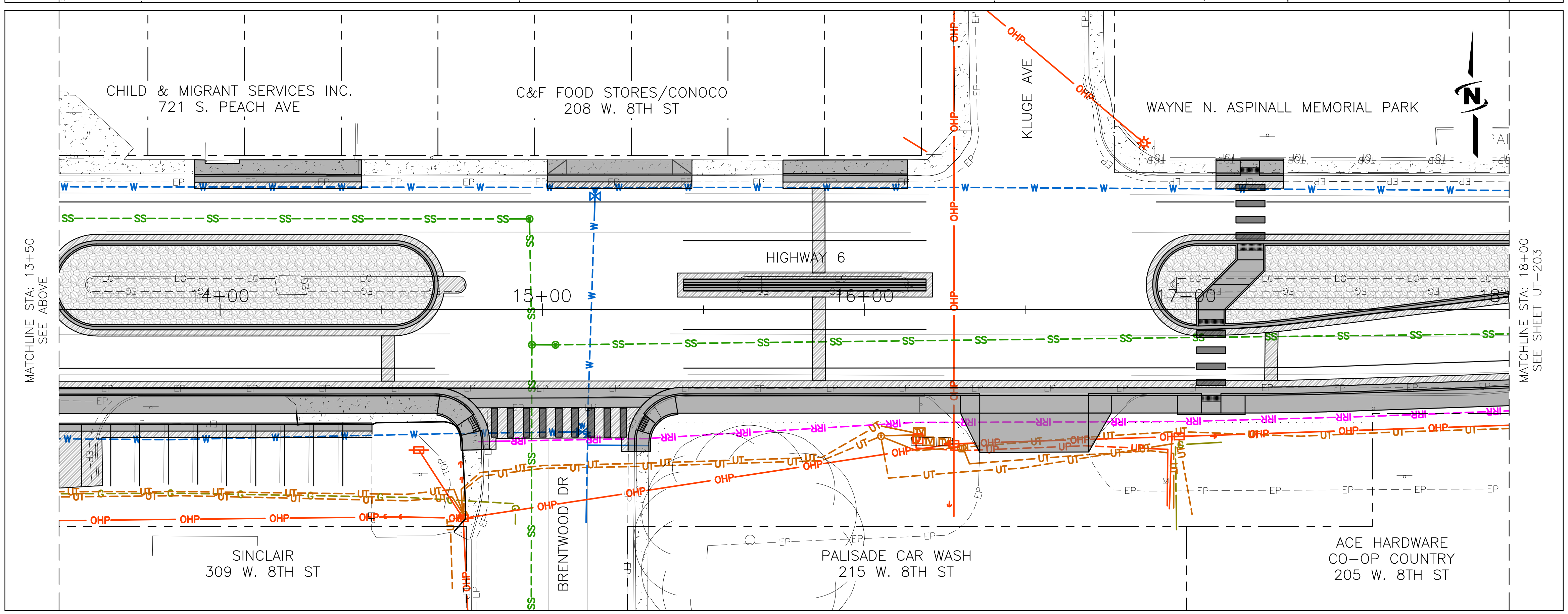
HIGHWAY 6 MMOF
UTILITY PLANS

Designer: EWS
Detailer: MWF
Sheet Subset: UT
Structure Numbers
Subset Sheets: 1 of 3

Project No./Code
M021-004 / 23961
Drawing Number UT-201
Sheet Number 19 of 84







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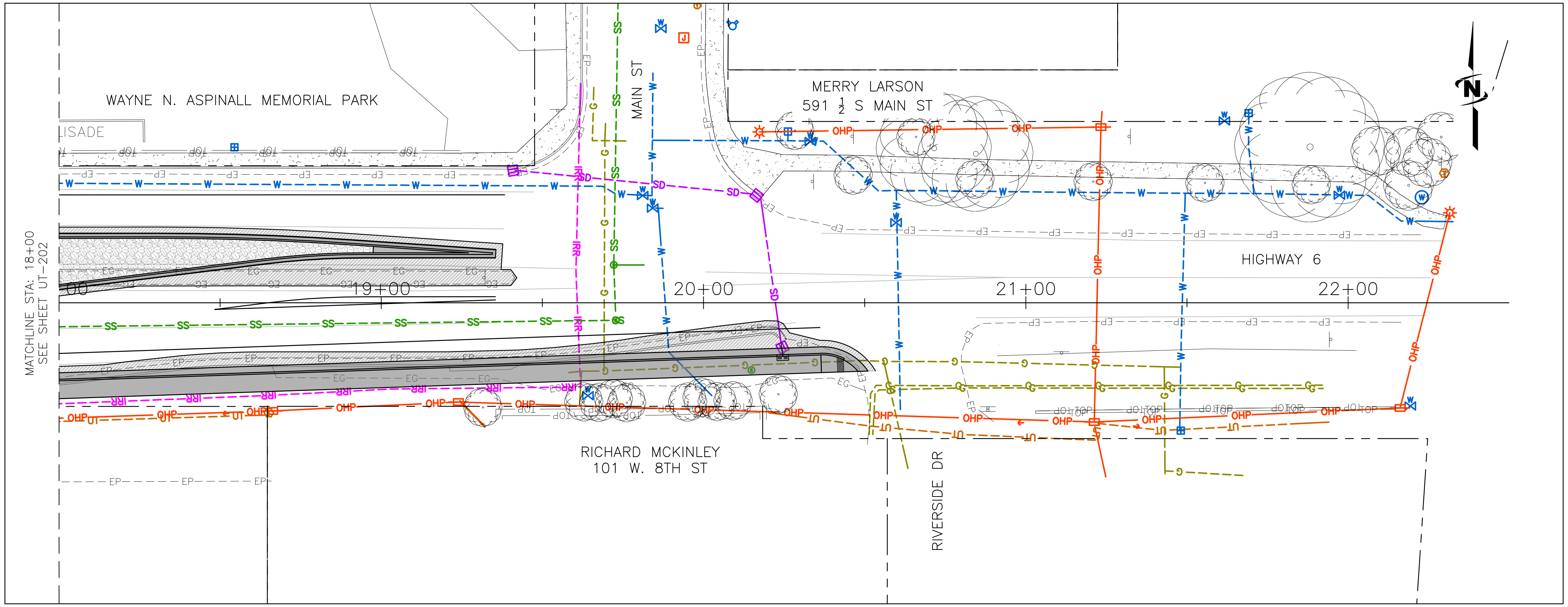
COLORADO Department of Transportation

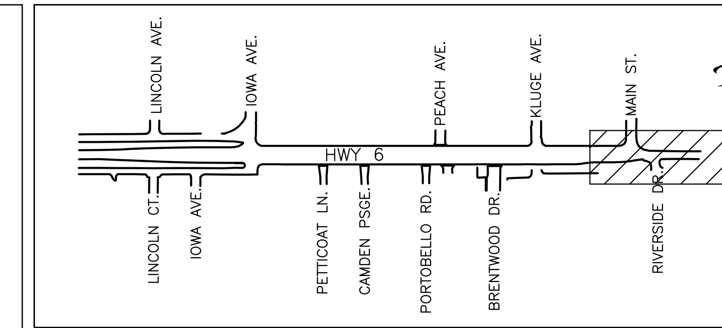
Ad Set
No Revisions:
Revised:
Void:

HIGHWAY 6 MMOF
UTILITY PLANS

Designer: EWS
Detailer: MWF
Sheet Subset: UT
Structure Numbers
Subset Sheets: 2 of 3

Project No./Code
M021-004 / 23961
Drawing Number UT-202
Sheet Number 20 of 84





UTILITY LEGEND	DESCRIPTION	UTILITY OWNER
G	GAS LINE (QL C)	XCEL ENERGY
OHP	OVERHEAD ELECTRIC (QL C)	XCEL ENERGY
UP	UNDERGROUND ELECTRIC (QL C)	XCEL ENERGY
UT	FIBER OPTIC / TELEPHONE (QL C)	SPECTRUM
W	DOMESTIC WATER PIPE (QL C)	TOWN OF PALISADE
SS	SANITARY SEWER (QL B)	TOWN OF PALISADE
SD	STORM SEWER (QL B)	TOWN OF PALISADE
IRR	IRRIGATION WATER (QL C)	PALISADE PIPES AND LATERALS

NOTES

1. SUE INVESTIGATION WAS NOT PERFORMED, ITENDITY OF UTILITY OWNERS HAS NOT BEEN CONFIRMED.
2. VALVES SHALL BE PROTECTED AND REMAIN ACCESSIBLE TO TOWN UTILITY CREWS FOR THE DURATION OF CONSTRUCTION.
3. 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 EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUES, 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.

0 20 40
SCALE IN FEET

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Plot Date:11/8/2021 2:02 PM Plotted By: Matthew Filo
Date Created:10/11/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_UT-20X.DWG

Print Date: 11/8/2021
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Palisade, CO 81526
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Sheet Revisions		
Date:	Comments	

TOWN OF PALISADE COLORADO
175 East Third Street
Palisade, CO 81526
Phone: (970) 464-1116

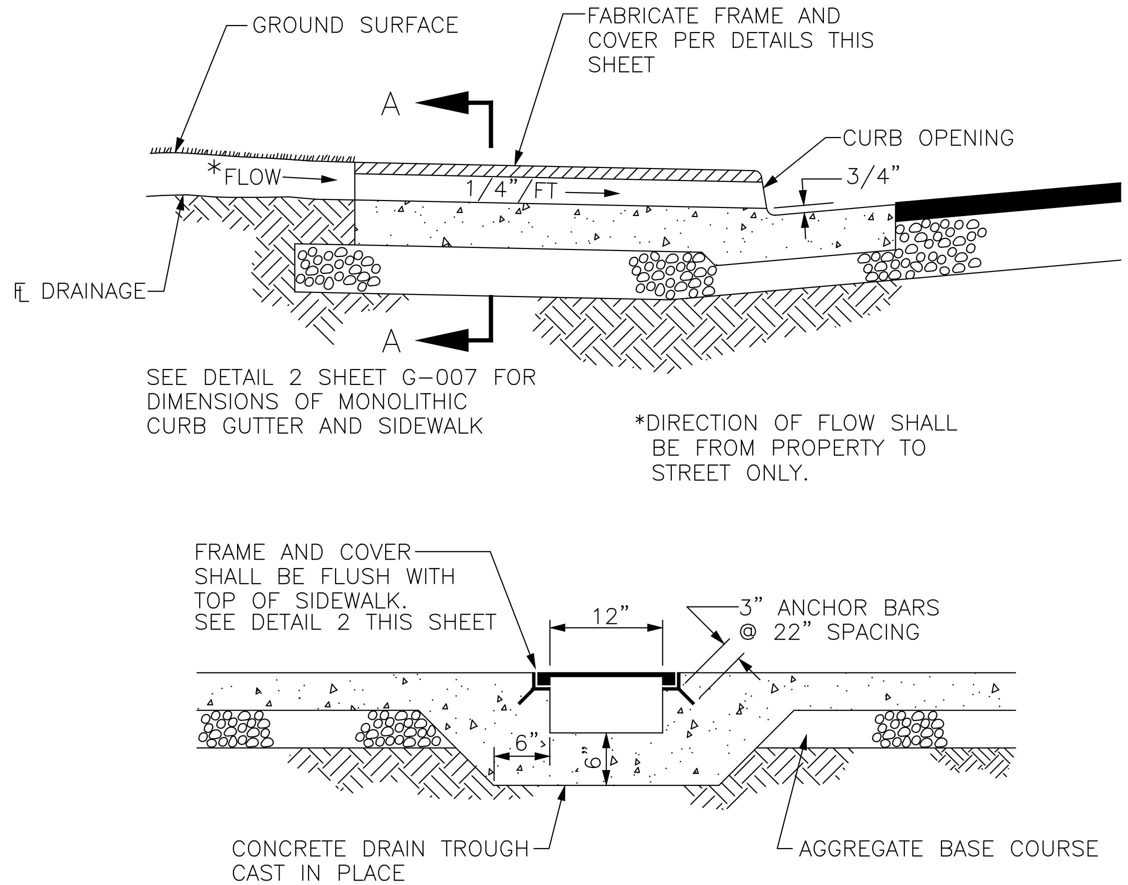
COLORADO Department of Transportation

Ad Set
No Revisions:
Revised:
Void:

HIGHWAY 6 MMOF
UTILITY PLANS

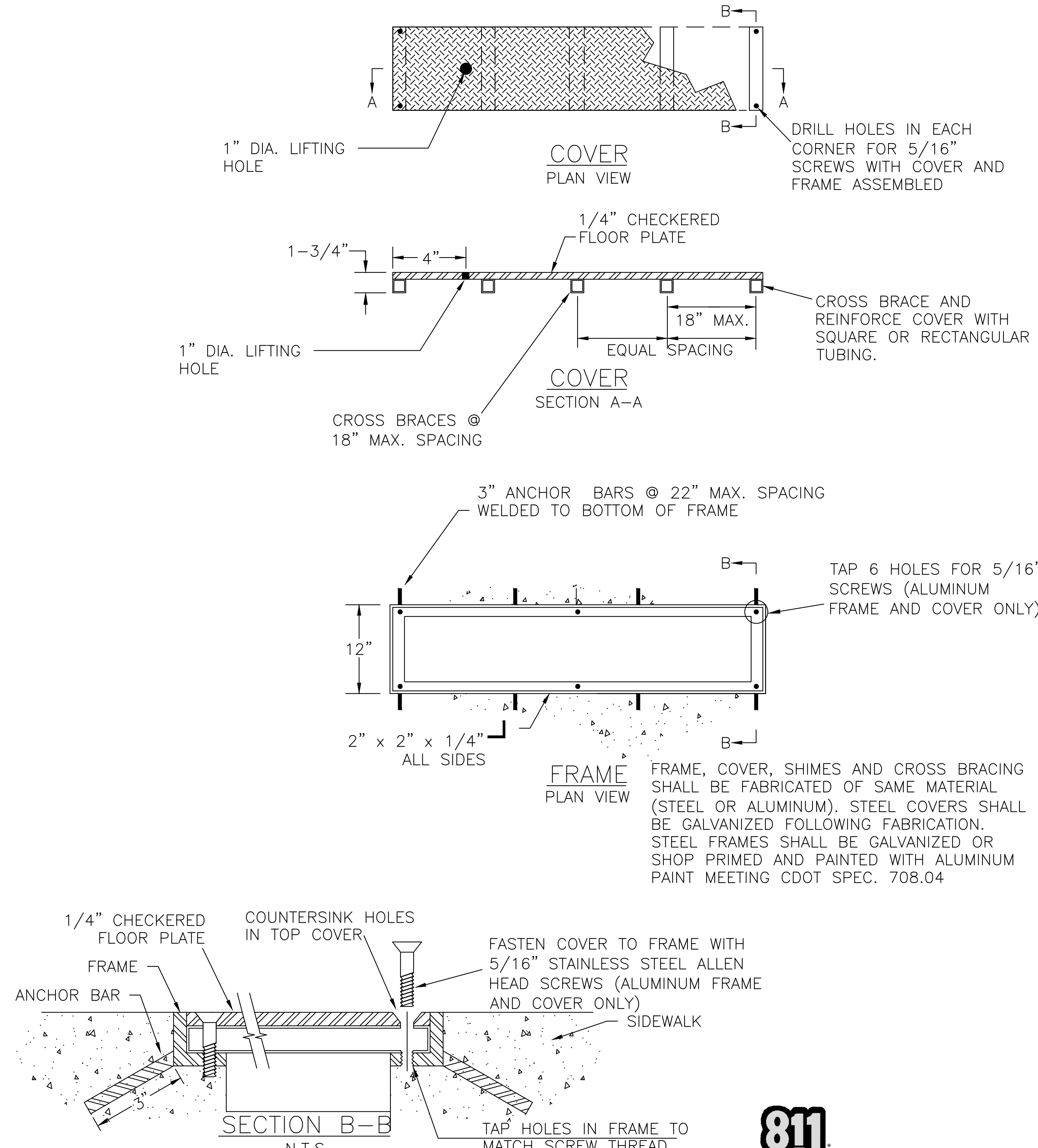
Designer: EWS
Detailer: MWF
Sheet Subset: UT
Structure Numbers
Subset Sheets: 3 of 3

Project No./Code
M021-004 / 23961
Drawing Number UT-203
Sheet Number 21 of 84

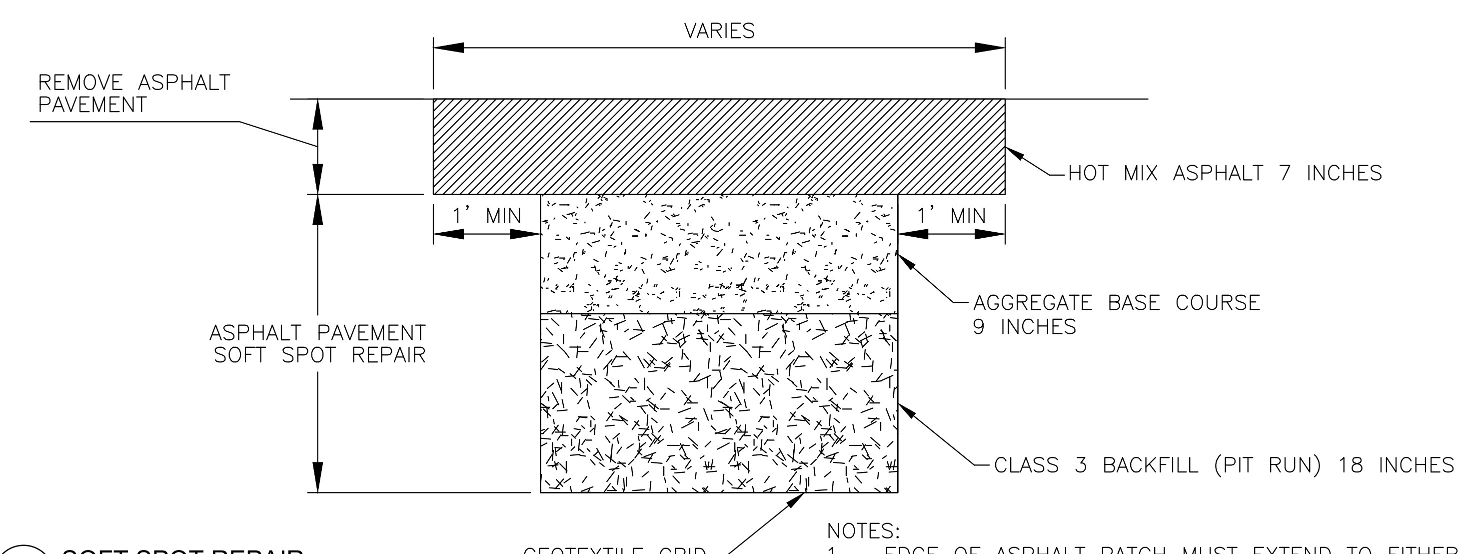


SECTION A–A

1 SIDEWALK DRAIN
SCALE:N.T.S.
STA 14+43



2 FRAME AND COVER FOR SIDEWALK DRAIN
SCALE:N.T.S.
STA 14+43



NOTES:
1. EDGE OF ASPHALT PATCH MUST EXTEND TO EITHER THE CENTER OR EDGE OF THE LANE.
2. WIDTH OF THE SOFT SPOT REPAIR DOES NOT NEED TO MATCH THE WIDTH OF THE ASPHALT PATCH.

3 SOFT SPOT REPAIR
SCALE:N.T.S.

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

Print Date: 11/8/2021	Sheet Revisions			Ad Set	HIGHWAY 6 MMOF DETAILS			Project No./Code
Scale: AS NOTED	Date:	Comments		No Revisions:				M021-004 / 23961
J-U-B ENGINEERS, INC. 305 South Main Street #6 Palisade, CO 81526 Phone: (970) 208-8508			Town of Palisade, Colorado 175 East Third Street Palisade, CO 81526 Phone: (970) 464-1116	Revised:	Designer: EWS	Structure Numbers		Drawing Number DT-701
			COLORADO Department of Transportation		Detailer: MWF			
				Void:	Sheet Subset: DT	Subset Sheets: 1 of 1		Sheet Number 22 of 84

Plot Date:11/8/2021 2:02 PM Plotted By: Matthew Filla
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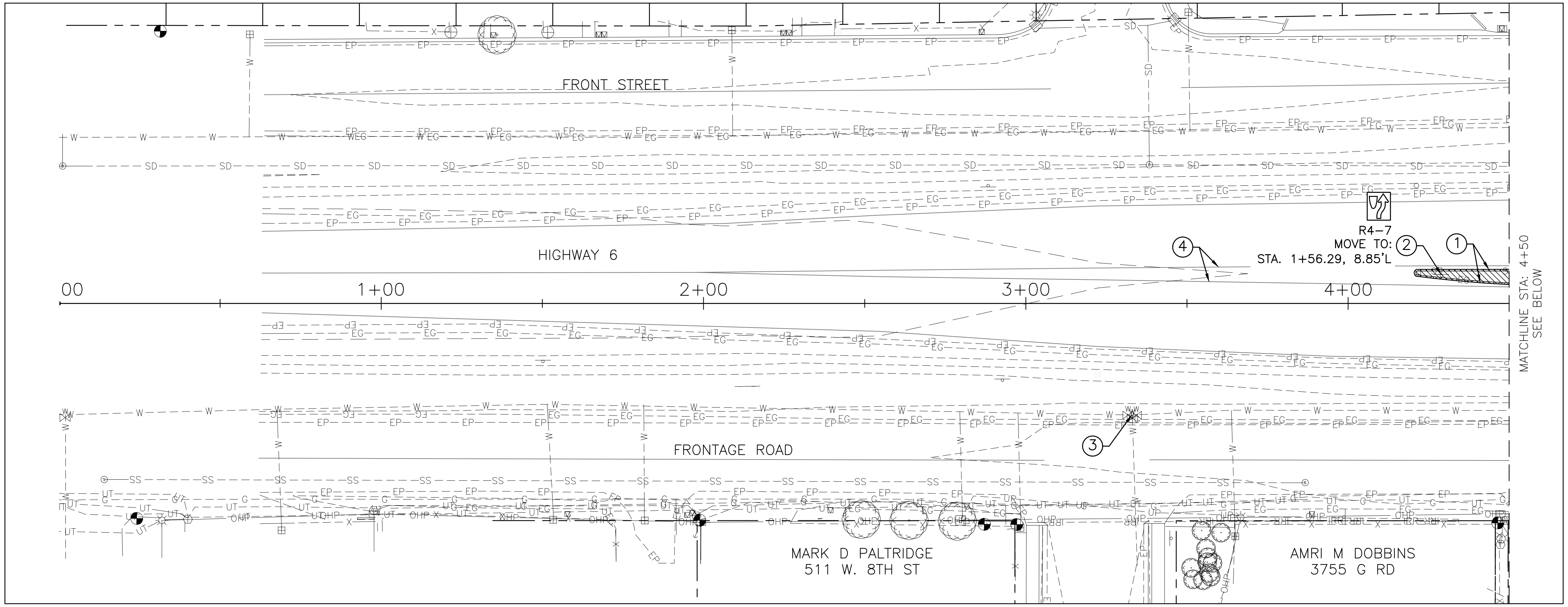

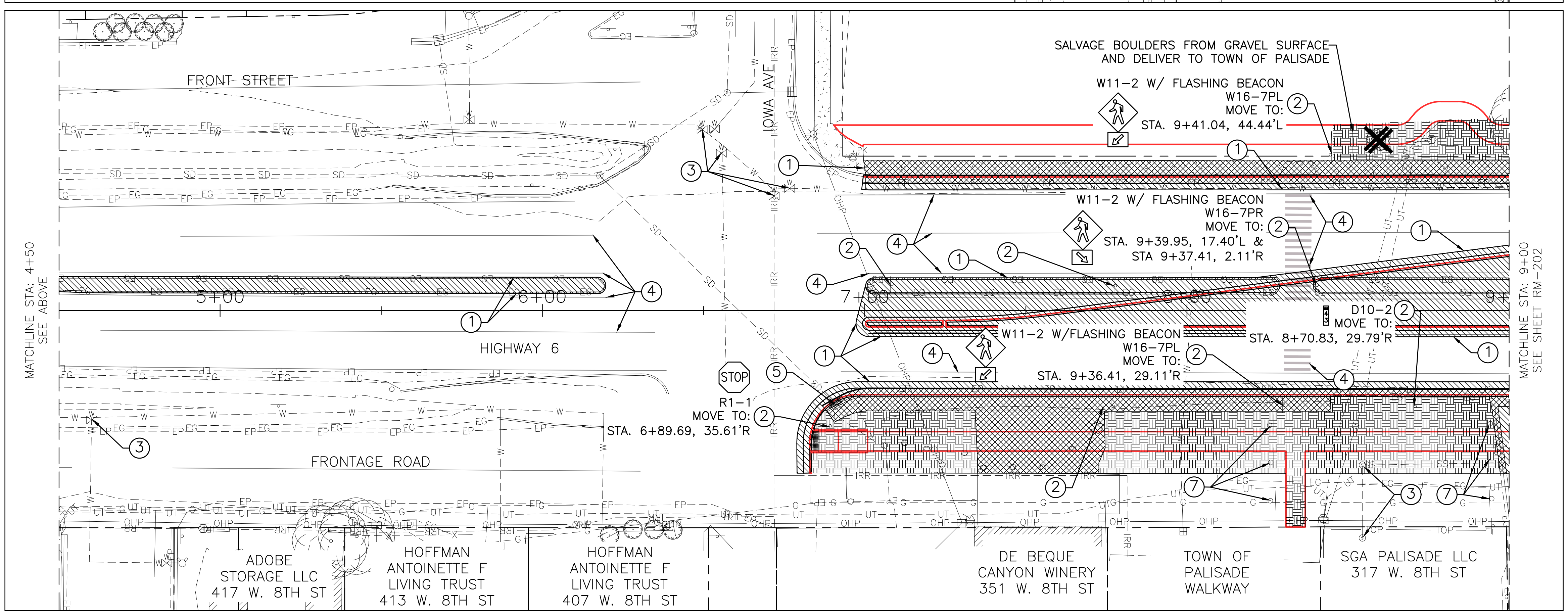

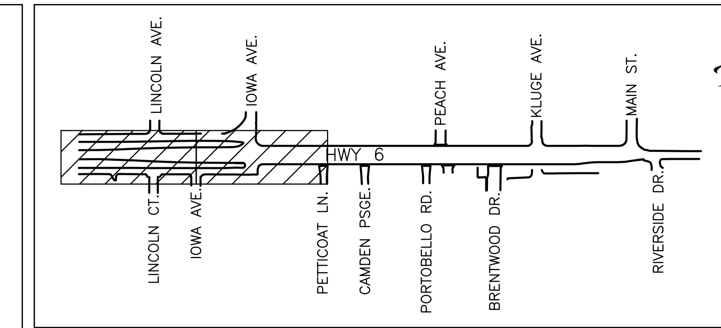

LEGEND

- PROPOSED SIDEWALK/MEDIAN
- REMOVAL OF CONCRETE
- REMOVAL OF ASPHALT
- REMOVAL OF GRAVEL SURFACE (PAID UNDER UNCLASSIFIED EXCAVATION PAY ITEM)
- REMOVAL OF SHRUB

KEYED NOTES

1. SAW CUT (SEE NOTE #1)
2. REMOVE EXISTING GROUND SIGN. REUSE WHERE INDICATED IN LABEL AND ST SHEETS. DISPOSE OF IF NO LOCATION INDICATED.
3. PROTECT MANHOLE, VALVE, UTILITY PEDESTAL
4. REMOVE EXISTING STRIPING
5. REMOVE AND DISPOSE OF EXISTING INLET STRUCTURE
6. REMOVE AND DISPOSE OF EXISTING SIDEWALK DRAIN
7. REMOVE AND DISPOSE OF FENCE AND POST

REMOVAL NOTES

1. COST OF PAVEMENT SAWCUTS SHALL BE INCIDENTAL TO OTHER PAY ITEMS.
2. CONTRACTOR SHALL ATTEMPT TO PRESERVE TREES & LANDSCAPING AS INDICATED ON THESE PLANS USING APPROVED CDOT PLASTIC FENCE. IF TREES AND/OR ADDITIONAL LANDSCAPING NEED TO BE REMOVED TO CONSTRUCT THE SIDEWALK, THE CONTRACTOR SHALL NOTIFY THE CITY PRIOR TO REMOVAL, UNLESS OTHERWISE CALLED OUT.
3. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES DURING REMOVAL WORK. ANY DAMAGE TO UTILITIES SHALL BE RESTORED TO ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
4. FOR AREAS WITHIN LANDSCAPED AREAS, EXCAVATE AND REMOVE MATERIAL DOWN TO NATURAL SOIL.
5. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER FOR FENCE REMOVAL, AND PROVIDE TEMPORARY FENCING. TEMPORARY FENCING IS INCIDENTAL TO FENCE REMOVAL PAY ITEM.

0 20 40
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TOWN OF PALISADE COLORADO
175 East Third Street
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COLORADO Department of Transportation

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HIGHWAY 6 MMOF
REMOVALS

Designer: EWS
Detailer: MWF
Sheet Subset: RM
Structure Numbers
Subset Sheets: 1 of 3

Project No./Code
M021-004 / 23961
Drawing Number RM-201
Sheet Number 23 of 84

Plot Date:11/8/2021 2:03 PM Plotted By: Matthew Filla
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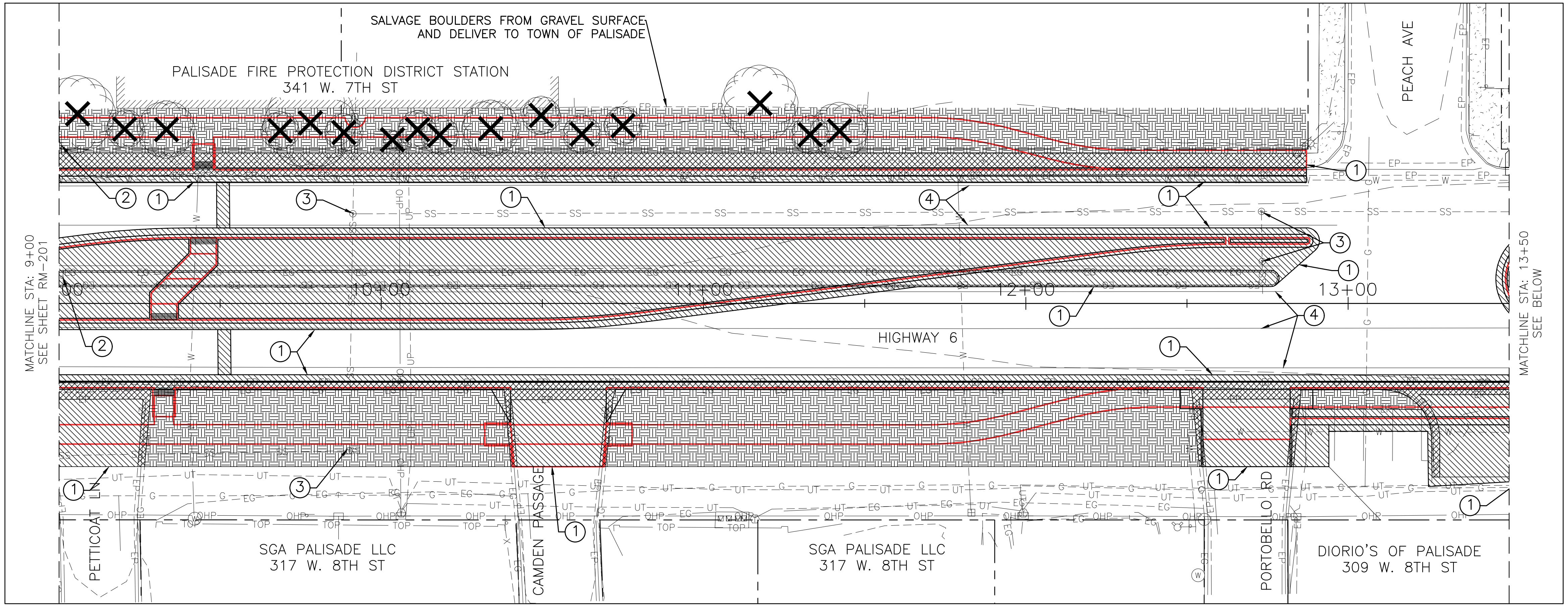

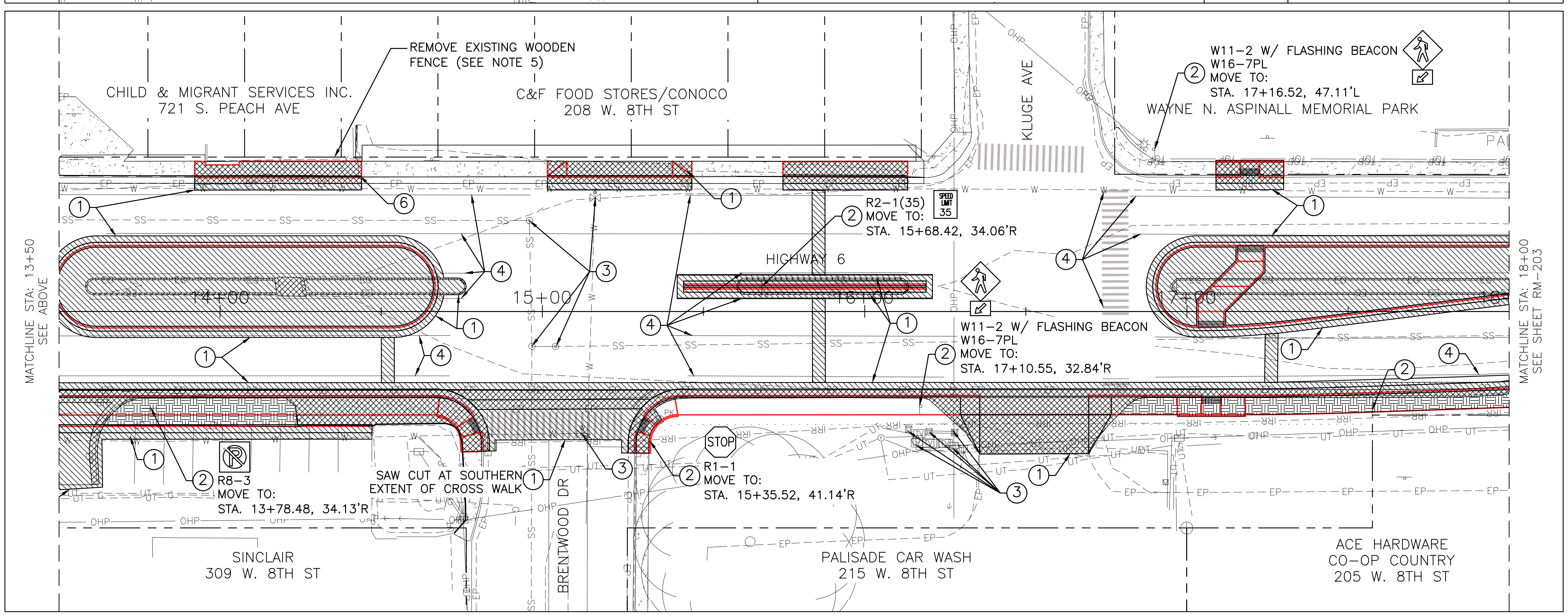

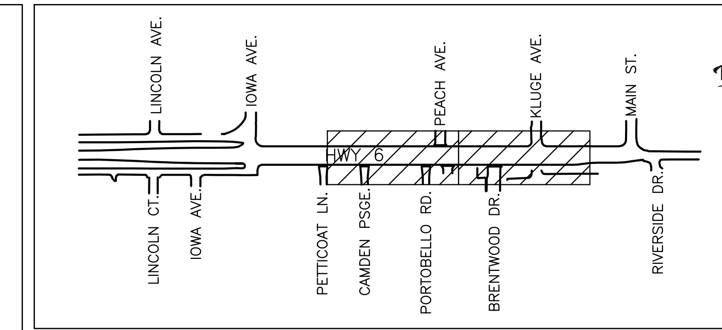

LEGEND

- PROPOSED SIDEWALK/MEDIAN
- REMOVAL OF CONCRETE
- REMOVAL OF ASPHALT
- REMOVAL OF GRAVEL SURFACE (PAID UNDER UNCLASSIFIED EXCAVATION PAY ITEM)
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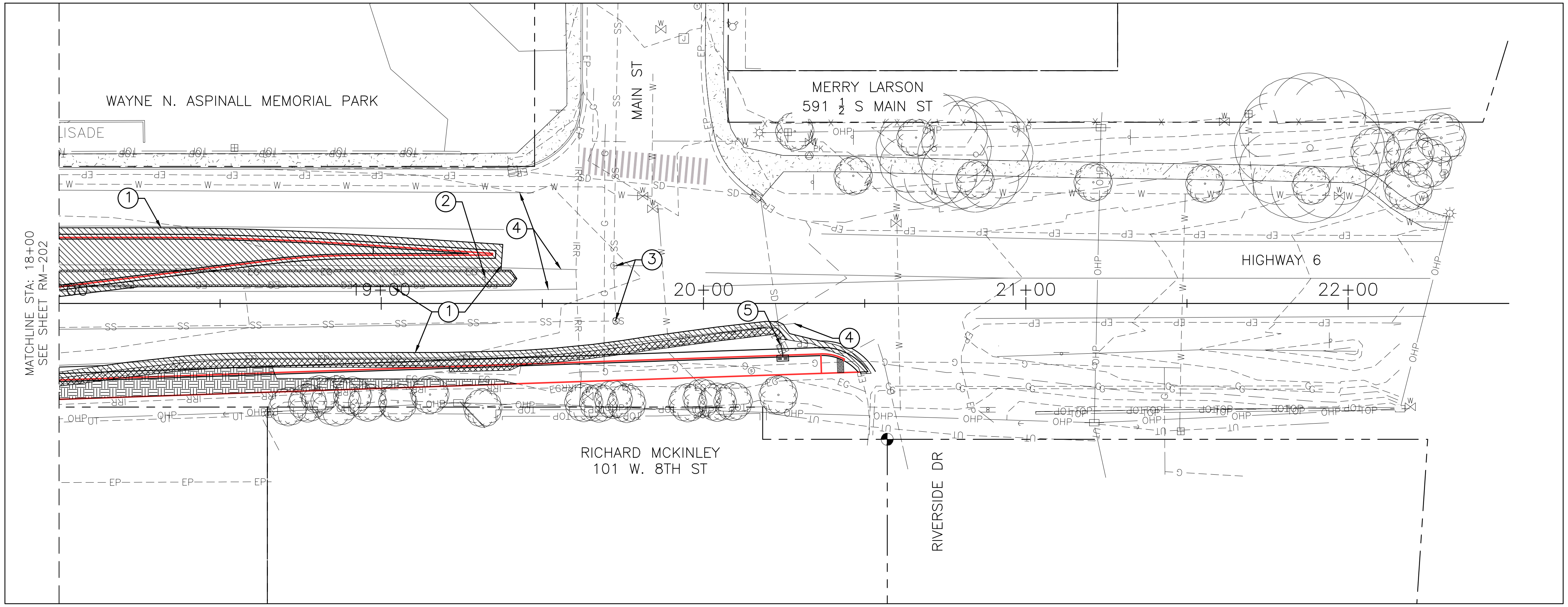
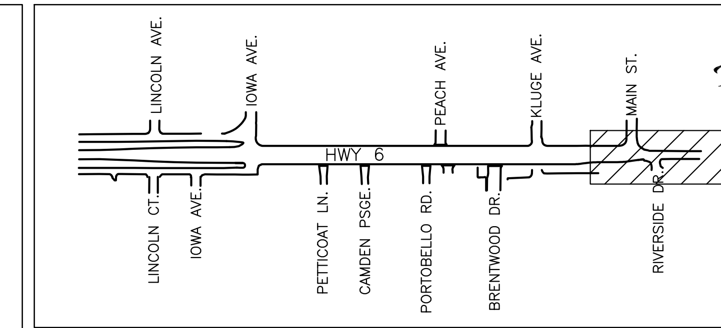
HIGHWAY 6 MMOF
REMOVALS

Designer: EWS	Structure Numbers		
Detailer: MWF			
Sheet Subset: RM	Subset Sheets: 2 of 3		

Project No./Code	
M021-004 /	23961
Drawing Number	RM-202
Sheet Number	24 of 84





LEGEND

- PROPOSED SIDEWALK/MEDIAN
- REMOVAL OF CONCRETE
- REMOVAL OF ASPHALT
- REMOVAL OF GRAVEL SURFACE (PAID UNDER UNCLASSIFIED EXCAVATION PAY ITEM)
- REMOVAL OF SHRUB

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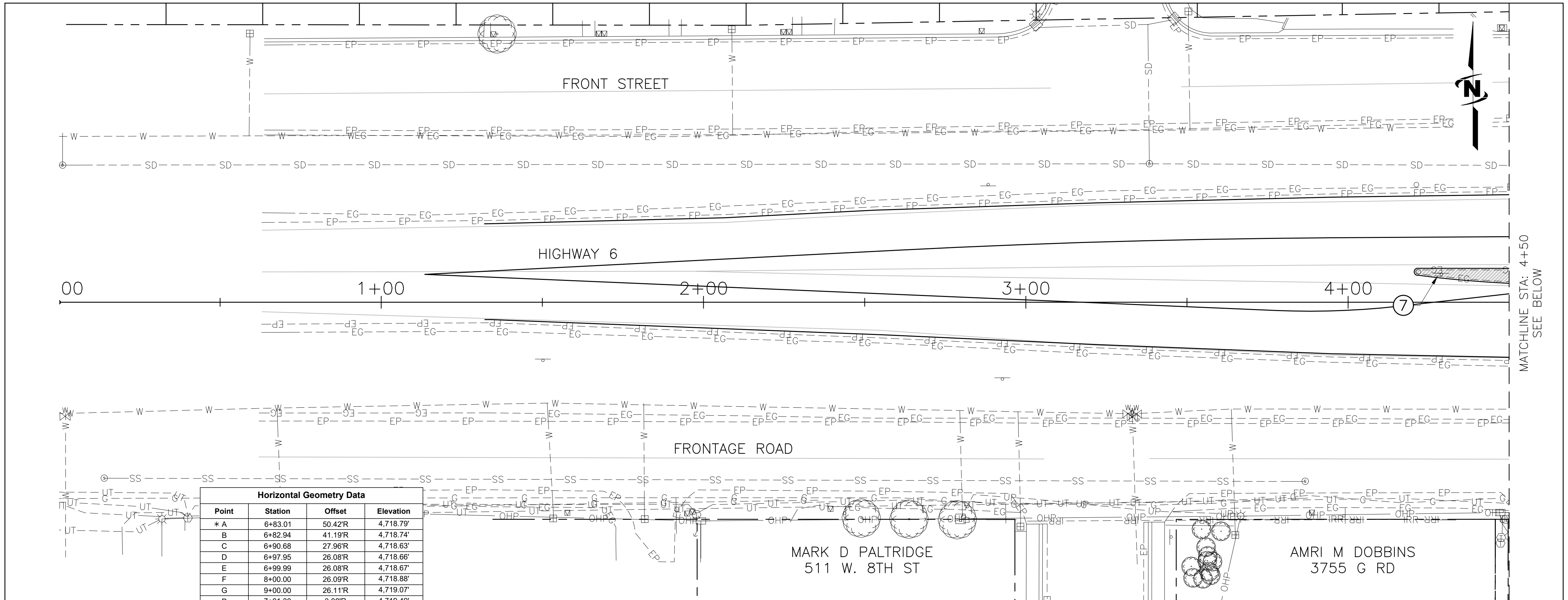
J-U-B ENGINEERS, INC. 305 South Main Street #6 Palisade, CO 81526 Phone: (970) 208-8508			Revised:	Designer: EWS	Structure Numbers	Drawing Number RM-203
TOWN OF PALISADE COLORADO 175 East Third Street Palisade, CO 81526 Phone: (970) 464-1116				Detailer: MWF		
COLORADO Department of Transportation			Void:	Sheet Subset: RM	Subset Sheets: 3 of 3	Sheet Number 25 of 84



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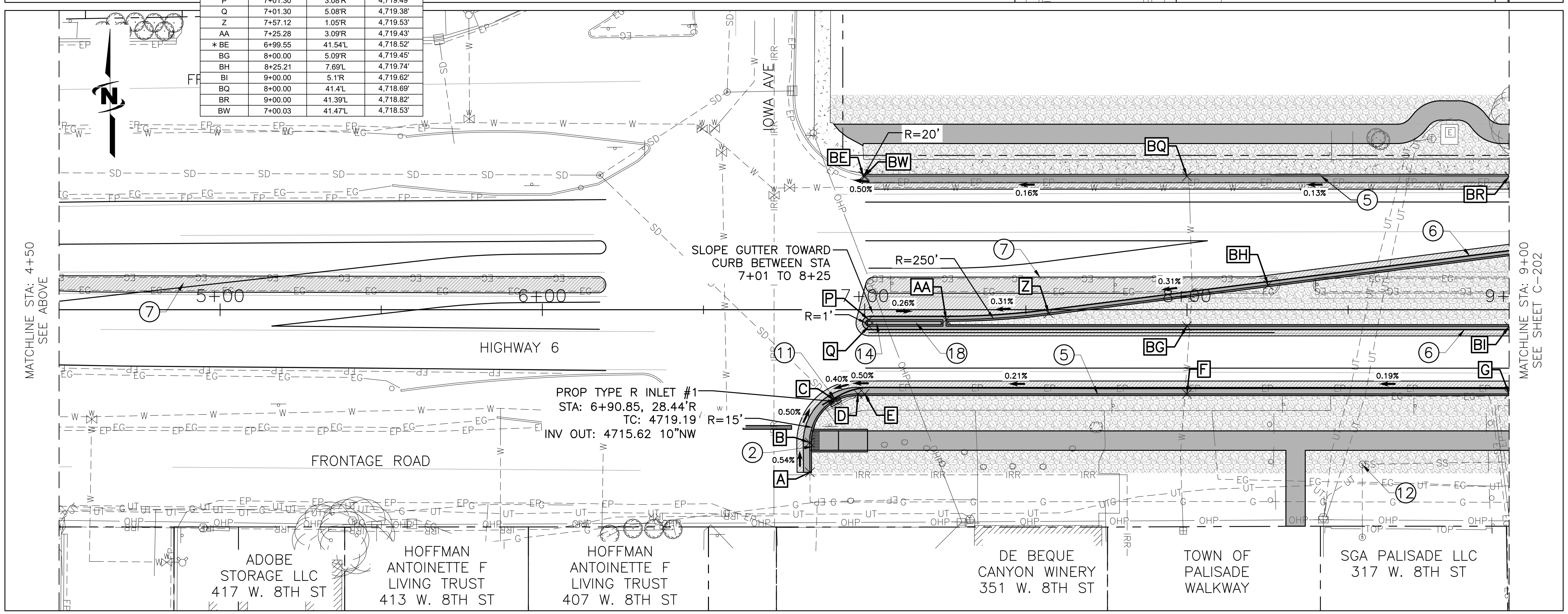
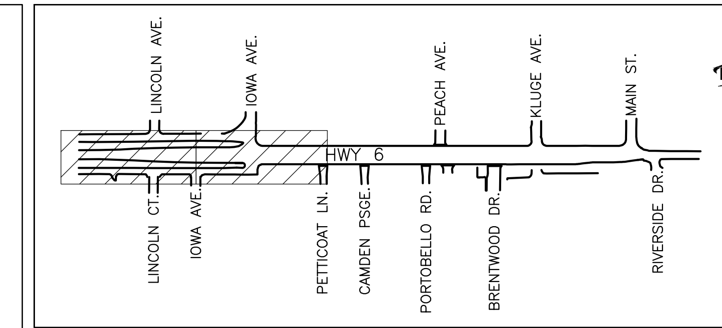
B	6+82.94	41.19'R	4,718.74'
C	6+90.68	27.96'R	4,718.63'
D	6+97.95	26.08'R	4,718.66'
E	6+99.99	26.08'R	4,718.67'
F	8+00.00	26.09'R	4,718.88'
G	9+00.00	26.11'R	4,719.07'
P	7+01.30	3.08'R	4,719.49'
Q	7+01.30	5.08'R	4,719.38'
Z	7+57.12	1.05'R	4,719.53'
AA	7+25.28	3.09'R	4,719.43'
∗ BE	6+99.55	41.54'L	4,718.52'
BG	8+00.00	5.09'R	4,719.45'
BH	8+25.21	7.69'L	4,719.74'
BI	9+00.00	5.1'R	4,719.62'
BQ	8+00.00	41.4'L	4,718.69'
BR	9+00.00	41.39'L	4,718.82'
BW	7+00.03	41.47'L	4,718.53'





NOTES

1. REFER TO TYPICAL SECTIONS ON DRAWING G-006 AND G-007 OR PROPOSED SIDEWALK.
2. ALL CURB RAMPS, CROSS WALKS, AND DRIVEWAY ENTRANCES SHALL ADHERE TO THE LATEST CDOT M&S STANDARD PLAN NO. M-608-1 & M-609-1. FOR GEOMETRICS & GRADING OF CURB RAMPS, CROSS WALKS, & DRIVEWAY ENTRANCES, REFER TO GRADING DRAWINGS GR-404 TO GR-408.
3. REFER TO DRAWINGS ST-702 TO ST-704 FOR SIGNING AND STRIPING INFORMATION.
4. GEOMETRY POINTS AND RADII REFER TO CURB GUTTER LINE UNLESS OTHERWISE NOTED
5. UTILITIES ARE SHOWN TO QL-C. PROTECT UTILITIES DURING CONSTRUCTION

PROPOSED CONCRETE
PROPOSED ASPHALT
PROPOSED LANDSCAPING
EXISTING SIDEWALK
CURB FLOWLINE

KEYED NOTES

1. PROPOSED CURB RAMP TYPE 1
2. PROPOSED CURB RAMP TYPE 2
3. PROPOSED CURB, GUTTER, & SIDEWALK, DETAIL 1 SHEET G-006
4. REPLACE SIDEWALK DRAIN, DETAILS DT-701
5. PROPOSED CURB, GUTTER, & SIDEWALK, DETAIL 3 SHEET G-006
6. PROPOSED CURB AND GUTTER, DETAIL 4 SHEET G-006
7. ASPHALT REPLACEMENT, DETAIL 5 SHEET G-006
8. PROPOSED CONCRETE DRIVEWAY ENTRANCE TYPE 1
9. PROPOSED CONCRETE DRIVEWAY ENTRANCE TYPE 2
10. PROPOSED CONCRETE DRIVEWAY ENTRANCE TYPE 3
11. PROPOSED TYPE "R" INLET, CONNECT TO EXISTING STORM SEWER
12. ADJUST MANHOLE RING AND COVER TO NEW GRADE
13. PROPOSED CURB, GUTTER, & SIDEWALK, DETAIL 2 SHEET G-007
14. PROPOSED MEDIAN NOSE, DETAIL 1 SHEET G-007
15. PROPOSED CURB AND GUTTER, DETAIL 3 SHEET G-007
16. SIDEWALK PER CDOT M&S STANDARDS
17. GUTTER TYPE 2 (6 FOOT) PER CDOT M&S STANDARDS
18. PROPOSED CURB AND GUTTER, DETAIL 2 SHEET G-006

∗ MATCH EXISTING ELEVATION

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Date Created: 9/30/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEETS\81-20-015_C-20X.DWG

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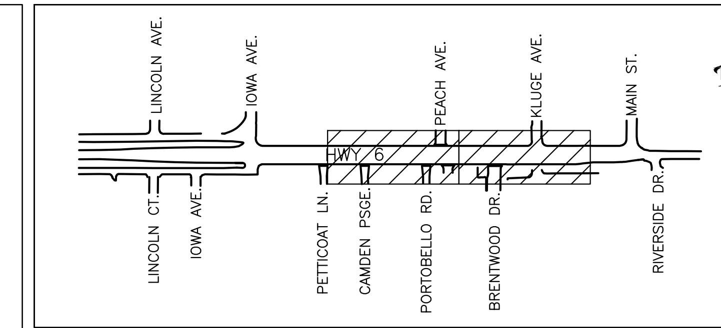
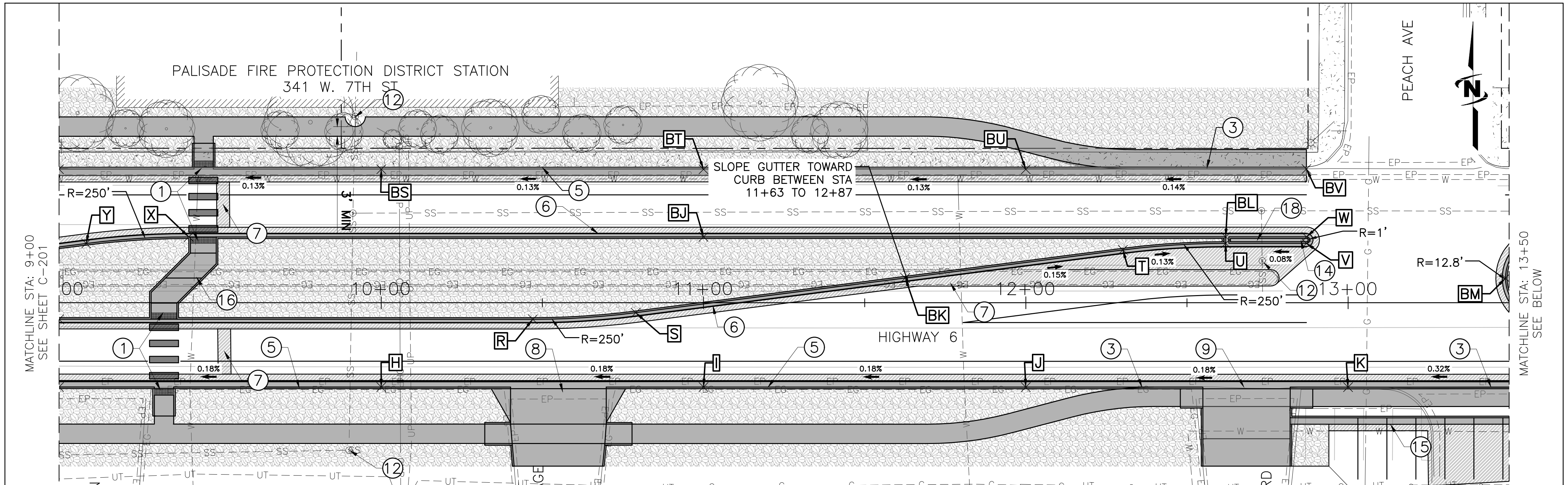
HIGHWAY 6 MMOF
PLAN

Designer: EWS
Detailer: MWF
Sheet Subset: C
Structure Numbers
Subset Sheets: 1 of 3

Project No./Code
M021-004 / 23961
Drawing Number C-201
Sheet Number 26 of 84





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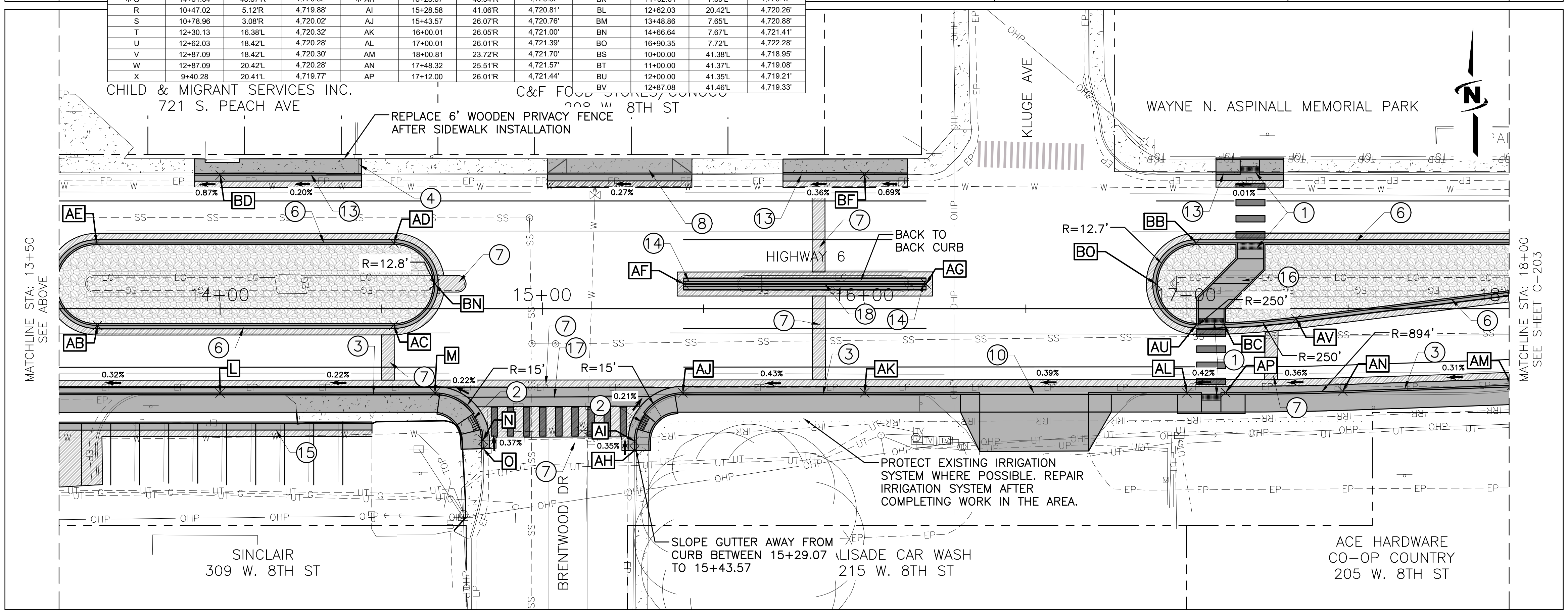
I	11+00.00	26.13'R	4,719.43'	AB	13+61.96	5.13'R	4,720.71'	AV	17+33.86	3.1'R	4,722.22'
J	12+00.00	26.14'R	4,719.61'	AC	14+53.88	5.1'R	4,721.00'	BB	17+02.92	20.44'L	4,722.16'
K	13+00.00	26.15'R	4,719.79'	AD	14+53.87	20.43'L	4,720.95'	BC	17+11.51	4.87'R	4,722.17'
L	14+00.01	26.12'R	4,720.11'	AE	13+61.64	20.43'L	4,720.58'	BD	14+00.01	41.44'L	4,719.98'
M	14+66.64	26.09'R	4,720.26'	AF	15+43.83	7.68'L	4,721.67'	BF	16+00.00	41.7'L	4,720.63'
N	14+81.56	40.67'R	4,720.31'	AG	16+19.04	7.7'L	4,722.02'	BJ	11+00.00	20.42'L	4,719.97'
* O	14+81.64	43.37'R	4,720.32'	* AH	15+28.57	43.94'R	4,720.82'	BK	11+62.61	7.69'L	4,720.42'
R	10+47.02	5.12'R	4,719.88'	AI	15+28.58	41.06'R	4,720.81'	BL	12+62.03	20.42'L	4,720.26'
S	10+78.96	3.08'R	4,720.02'	AJ	15+43.57	26.07'R	4,720.76'	BM	13+48.86	7.65'L	4,720.88'
T	12+30.13	16.38'L	4,720.32'	AK	16+00.01	26.05'R	4,721.00'	BN	14+66.64	7.67'L	4,721.41'
U	12+62.03	18.42'L	4,720.28'	AL	17+00.01	26.01'R	4,721.39'	BO	16+90.35	7.72'L	4,722.28'
V	12+87.09	18.42'L	4,720.30'	AM	18+00.81	23.72'R	4,721.70'	BS	10+00.00	41.38'L	4,718.95'
W	12+87.09	20.42'L	4,720.28'	AN	17+48.32	25.51'R	4,721.57'	BT	11+00.00	41.37'L	4,719.08'
X	9+40.28	20.41'L	4,719.77'	AP	17+12.00	26.01'R	4,721.44'	BU	12+00.00	41.35'L	4,719.21'
								BV	12+87.08	41.46'L	4,719.33'



NOTES

1. REFER TO TYPICAL SECTIONS ON DRAWING G-006 AND G-007 OR PROPOSED SIDEWALK.
2. ALL CURB RAMPS, CROSS WALKS, AND DRIVEWAY ENTRANCES SHALL ADHERE TO THE LATEST CDOT M&S STANDARD PLAN NO. M-608-1 & M-609-1. FOR GEOMETRICS & GRADING OF CURB RAMPS, CROSS WALKS, & DRIVEWAY ENTRANCES, REFER TO GRADING DRAWINGS GR-404 TO GR-408.
3. REFER TO DRAWINGS ST-702 TO ST-704 FOR SIGNING AND STRIPING INFORMATION.
4. GEOMETRY POINTS AND RADII REFER TO CURB GUTTER LINE UNLESS OTHERWISE NOTED
5. UTILITIES ARE SHOWN TO QL-C. PROTECT UTILITIES DURING CONSTRUCTION

PROPOSED CONCRETE
PROPOSED ASPHALT
PROPOSED LANDSCAPING
EXISTING SIDEWALK
CURB FLOWLINE

KEYED NOTES

1. PROPOSED CURB RAMP TYPE 1
2. PROPOSED CURB RAMP TYPE 2
3. PROPOSED CURB, GUTTER, & SIDEWALK, DETAIL 1 SHEET G-006
4. REPLACE SIDEWALK DRAIN, DETAILS DT-701
5. PROPOSED CURB, GUTTER, & SIDEWALK, DETAIL 3 SHEET G-006
6. PROPOSED CURB AND GUTTER, DETAIL 4 SHEET G-006
7. ASPHALT REPLACEMENT, DETAIL 5 SHEET G-006
8. PROPOSED CONCRETE DRIVEWAY ENTRANCE TYPE 1
9. PROPOSED CONCRETE DRIVEWAY ENTRANCE TYPE 2
10. PROPOSED CONCRETE DRIVEWAY ENTRANCE TYPE 3
11. PROPOSED TYPE "R" INLET, CONNECT TO EXISTING STORM SEWER
12. ADJUST MANHOLE RING AND COVER TO NEW GRADE
13. PROPOSED CURB, GUTTER, & SIDEWALK, DETAIL 2 SHEET G-007
14. PROPOSED MEDIAN NOSE, DETAIL 1 SHEET G-007
15. PROPOSED CURB AND GUTTER, DETAIL 3 SHEET G-007
16. SIDEWALK PER CDOT M&S STANDARDS
17. GUTTER TYPE 2 (6 FOOT) PER CDOT M&S STANDARDS
18. PROPOSED CURB AND GUTTER, DETAIL 2 SHEET G-006

* MATCH EXISTING ELEVATION

0 20 40
SCALE IN FEET

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Plot Date: 11/8/2021 2:04 PM Plotted By: Matthew Filo
Date Created: 5/30/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEETS\81-20-015_C-20X.DWG

Print Date: 11/8/2021
Scale: 1"=40'

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Sheet Revisions

Date:	Comments

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175 East Third Street
Palisade, CO 81526
Phone: (970) 464-1116

COLORADO Department of Transportation

Ad Set
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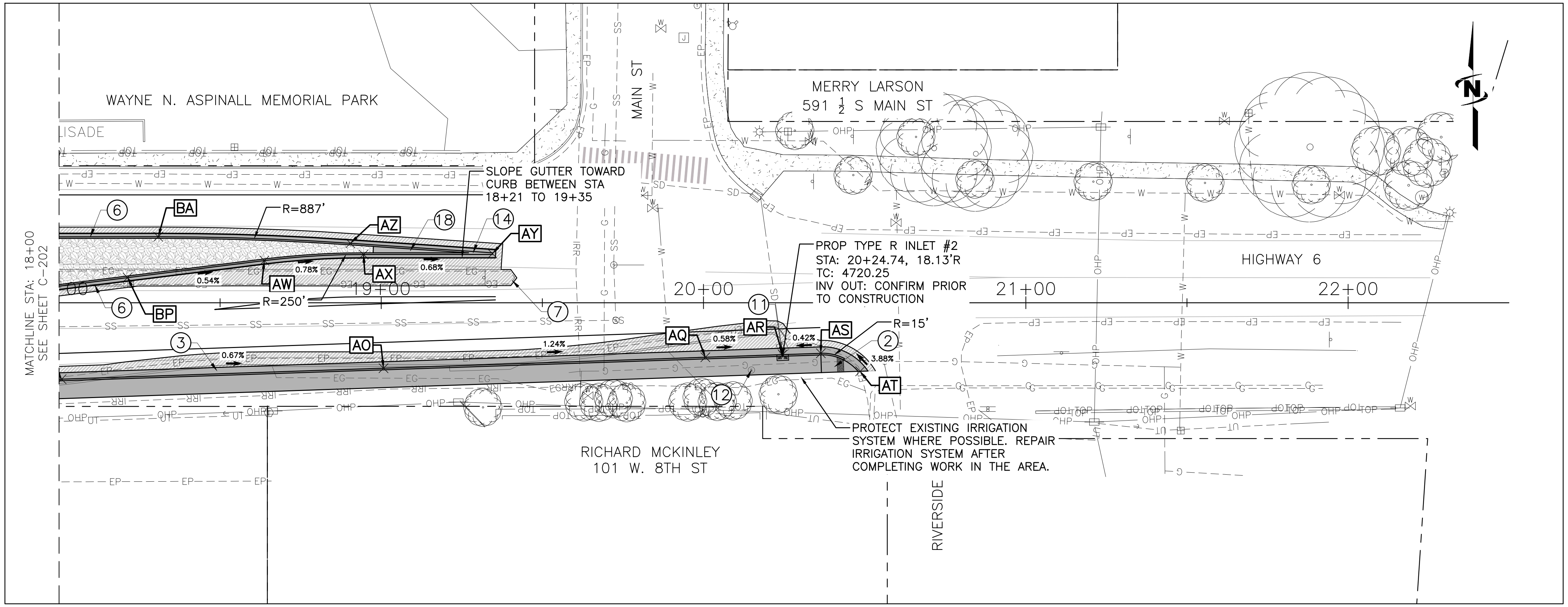
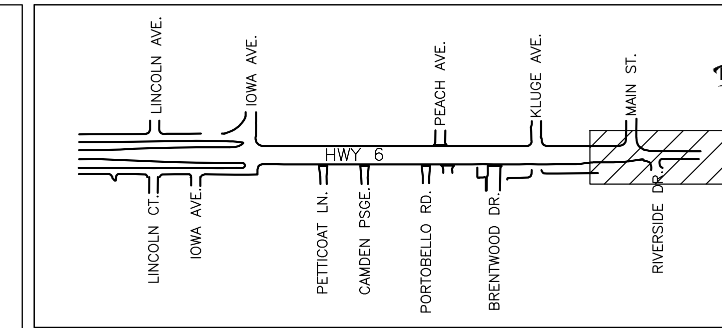
Revised:
Void:

HIGHWAY 6 MMOF
PLAN

Designer: EWS
Detailer: MWF
Sheet Subset: C
Structure Numbers
Subset Sheets: 2 of 3

Project No./Code
M021-004 / 23961
Drawing Number C-202
Sheet Number 27 of 84





NOTES

1. REFER TO TYPICAL SECTIONS ON DRAWING G-006 AND G-007 OR PROPOSED SIDEWALK.
2. ALL CURB RAMPS, CROSS WALKS, AND DRIVEWAY ENTRANCES SHALL ADHERE TO THE LATEST CDOT M&S STANDARD PLAN NO. M-608-1 & M-609-1. FOR GEOMETRICS & GRADING OF CURB RAMPS, CROSS WALKS, & DRIVEWAY ENTRANCES, REFER TO GRADING DRAWINGS GR-404 TO GR-408.
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5. UTILITIES ARE SHOWN TO QL-C. PROTECT UTILITIES DURING CONSTRUCTION

PROPOSED CONCRETE
PROPOSED ASPHALT
PROPOSED LANDSCAPING
EXISTING SIDEWALK
CURB FLOWLINE

KEYED NOTES

1. PROPOSED CURB RAMP TYPE 1
2. PROPOSED CURB RAMP TYPE 2
3. PROPOSED CURB, GUTTER, & SIDEWALK, DETAIL 1 SHEET G-006
4. REPLACE SIDEWALK DRAIN, DETAILS DT-701
5. PROPOSED CURB, GUTTER, & SIDEWALK, DETAIL 3 SHEET G-006
6. PROPOSED CURB AND GUTTER, DETAIL 4 SHEET G-006
7. ASPHALT REPLACEMENT, DETAIL 5 SHEET G-006
8. PROPOSED CONCRETE DRIVEWAY ENTRANCE TYPE 1
9. PROPOSED CONCRETE DRIVEWAY ENTRANCE TYPE 2
10. PROPOSED CONCRETE DRIVEWAY ENTRANCE TYPE 3
11. PROPOSED TYPE "R" INLET, CONNECT TO EXISTING STORM SEWER
12. ADJUST MANHOLE RING AND COVER TO NEW GRADE
13. PROPOSED CURB, GUTTER, & SIDEWALK, DETAIL 2 SHEET G-007
14. PROPOSED MEDIAN NOSE, DETAIL 1 SHEET G-007
15. PROPOSED CURB AND GUTTER, DETAIL 3 SHEET G-007
16. SIDEWALK PER CDOT M&S STANDARDS
17. GUTTER TYPE 2 (6 FOOT) PER CDOT M&S STANDARDS
18. PROPOSED CURB AND GUTTER, DETAIL 2 SHEET G-006

Horizontal Geometry Data

Point	Station	Offset	Elevation
* AO	19+00.69	20.31'R	4,721.06'
AQ	20+00.58	16.91'R	4,719.82'
AR	20+24.55	16.09'R	4,719.68'
AS	20+36.39	15.69'R	4,719.73'
AT	20+48.58	21.28'R	4,720.27'
AW	18+63.72	13.05'L	4,722.13'
AX	18+94.49	14.96'L	4,721.89'
AY	19+34.51	15.23'L	4,721.60'
AZ	18+90.42	18.45'L	4,721.86'
BA	18+30.81	20.45'L	4,722.11'
BP	18+21.26	7.77'L	4,722.36'

* MATCH EXISTING ELEVATION

0 20 40
SCALE IN FEET

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

Plot Date: 11/8/2021 2:04 PM Plotted By: Matthew Fillo
Date Created: 3/30/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEETS\81-20-015_C-20X.DWG

Print Date: 11/8/2021
Scale: 1"=40'

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305 South Main Street #6
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Date:	Comments	

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Phone: (970) 464-1116

COLORADO
Department of Transportation

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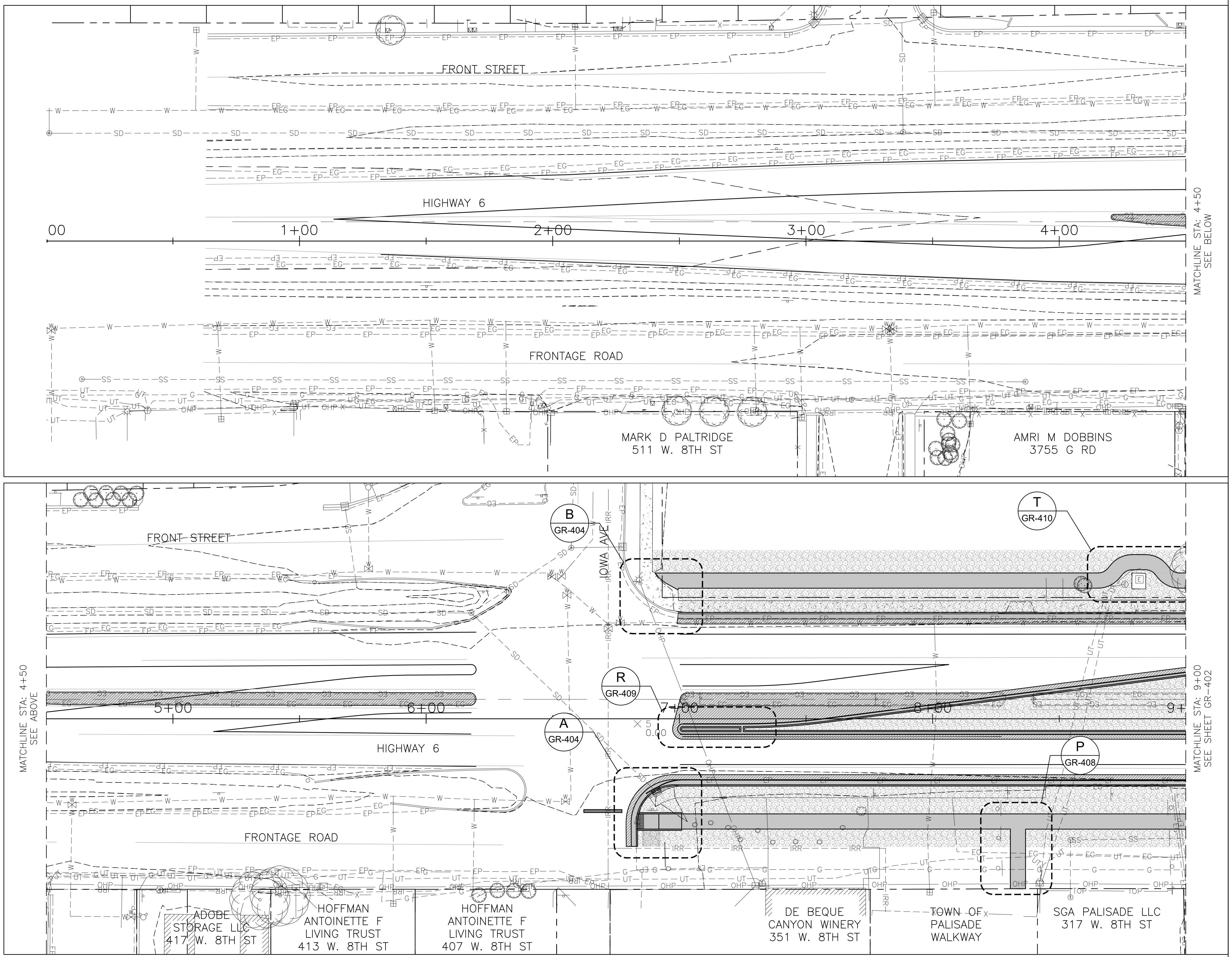
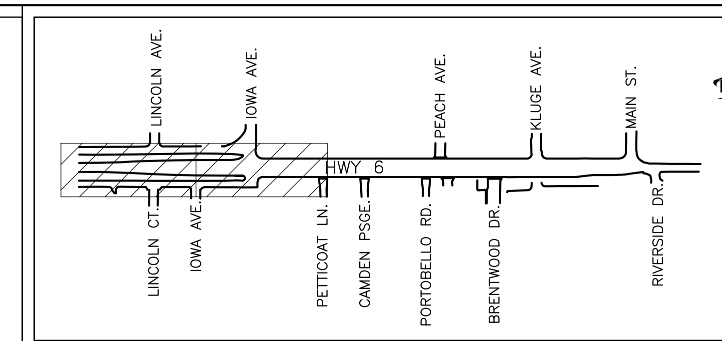
Revised:
Void:

HIGHWAY 6 MMOF
PLAN

Designer: EWS
Detailer: MWF
Sheet Subset: C
Structure Numbers
Subset Sheets: 3 of 3

Project No./Code
M021-004 / 23961
Drawing Number C-203
Sheet Number 28 of 84





LEGEND:

FILL	FILL
CUT	CUT
XXXX.XX	FINISHED GRADE ELEVATION
X.XX%	PROPOSED DRAINAGE GRADE
TC	TOP OF CURB
FC	FACE OF CURB AT GUTTER LINE
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
EG	EDGE OF GUTTER
SW	SIDEWALK
BL	BREAK LINE
EA	EDGE OF ASPHALT

PROPOSED CONCRETE WORK

PROPOSED ASPHALT PATCH

PROPOSED LANDSCAPED AREA

NOTES
1. CURB ELEVATIONS AND SLOPES ARE SHOWN ON SHEETS C-201 THROUGH C-203

0 20 40
SCALE IN FEET

N

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

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Void:

HIGHWAY 6 MMOF
GRADING & DRAINAGE

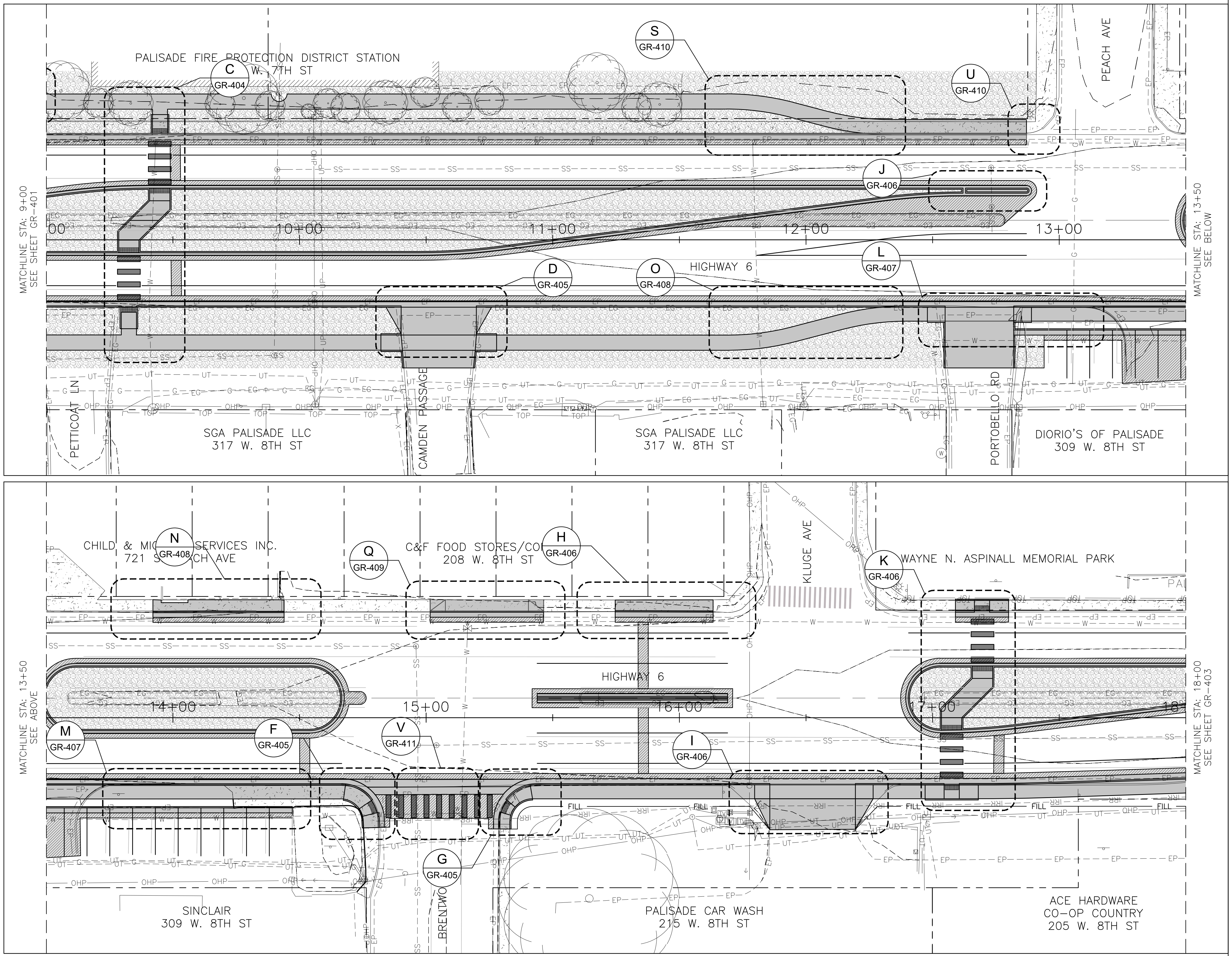
Designer: EWS
Detailer: MWF
Sheet Subset: GR

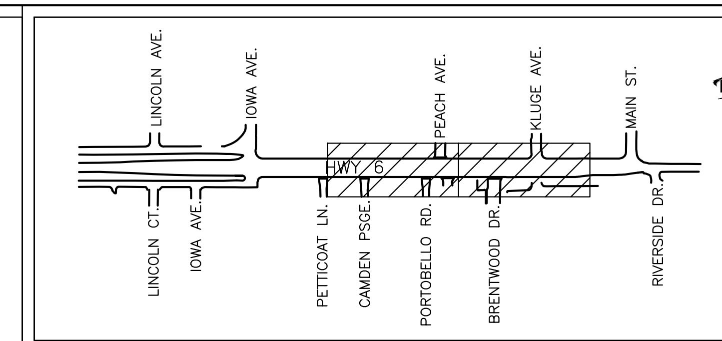
Structure Numbers

Subset Sheets: 1 of 11

Project No./Code
M021-004 / 23961
Drawing Number GR-401
Sheet Number 29 of 84

Plot Date:11/8/2021 2:04 PM Plotted By: Matthew Filla
Date Created:3/5/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEETS\81-20-015_GR-401.DWG





LEGEND:

FILL	FILL
CUT	CUT
XXXX.XX	FINISHED GRADE ELEVATION
X.XX%	PROPOSED DRAINAGE GRADE
TC	TOP OF CURB
FC	FACE OF CURB AT GUTTER LINE
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
EG	EDGE OF GUTTER
SW	SIDEWALK
BL	BREAK LINE
EA	EDGE OF ASPHALT

PROPOSED CONCRETE WORK

PROPOSED ASPHALT PATCH

PROPOSED LANDSCAPED AREA

NOTES
1. CURB ELEVATIONS AND SLOPES ARE SHOWN ON SHEETS C-201 THROUGH C-203

0 20 40
SCALE IN FEET

N

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

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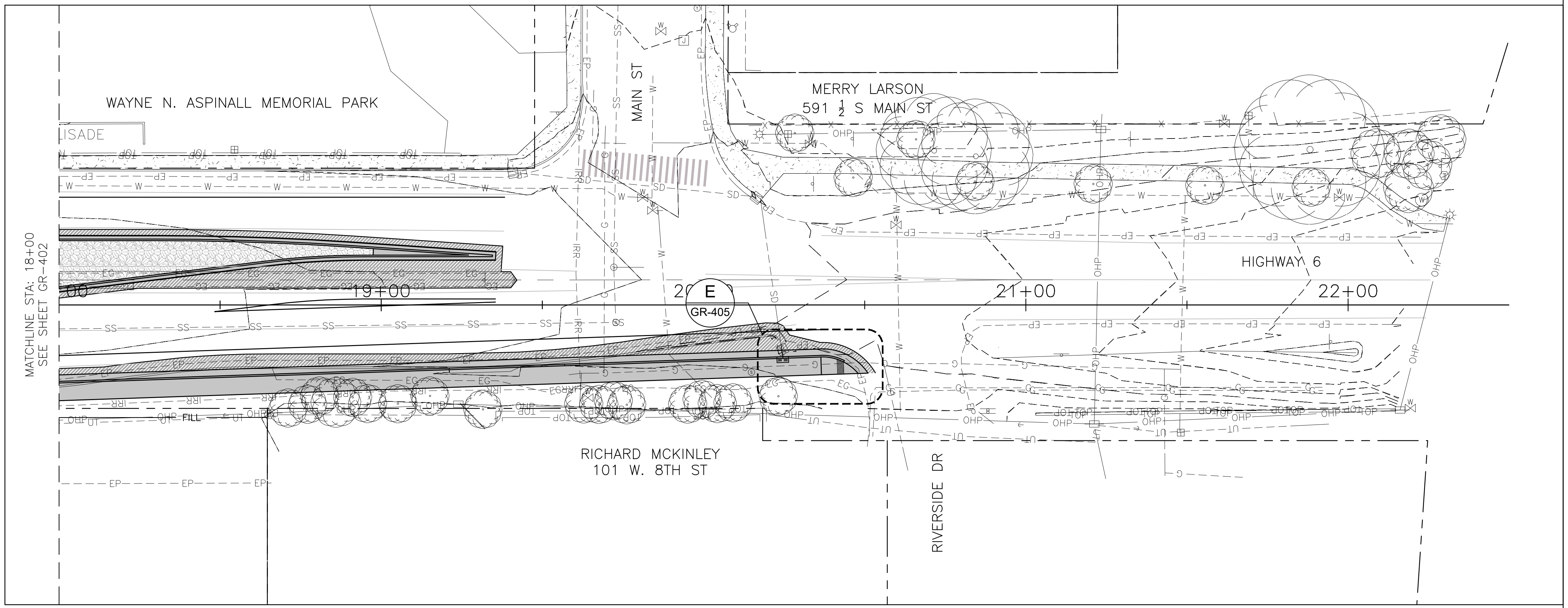
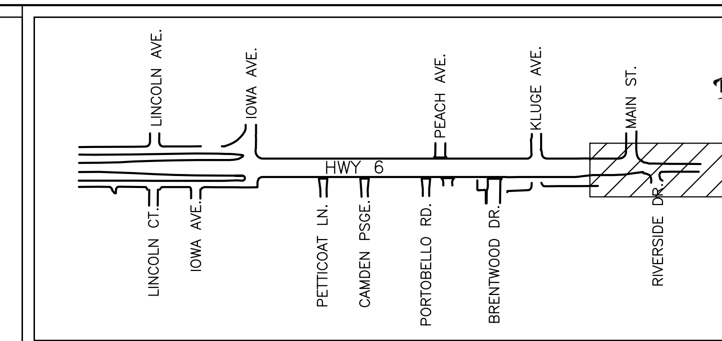
HIGHWAY 6 MMOF
GRADING & DRAINAGE

Designer: EWS
Detailer: MWF
Sheet Subset: GR
Structure Numbers
Subset Sheets: 2 of 11

Project No./Code
M021-004 / 23961
Drawing Number GR-402
Sheet Number 30 of 84

Plot Date:11/8/2021 2:05 PM Plotted By: Matthew Filia
Date Created:3/3/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEETS\81-20-015_GR-40X.DWG





LEGEND:

FILL	FILL
CUT	CUT
XXXX.XX	FINISHED GRADE ELEVATION
X.XX%	PROPOSED DRAINAGE GRADE
TC	TOP OF CURB
FC	FACE OF CURB AT GUTTER LINE
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
EG	EDGE OF GUTTER
SW	SIDEWALK
BL	BREAK LINE
EA	EDGE OF ASPHALT

PROPOSED CONCRETE WORK

PROPOSED ASPHALT PATCH

PROPOSED LANDSCAPED AREA

NOTES
1. CURB ELEVATIONS AND SLOPES ARE SHOWN ON SHEETS C-201 THROUGH C-203

0 20 40
SCALE IN FEET

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Date Created:9/3/2021

Print Date: 11/8/2021
Scale: 1"=40'

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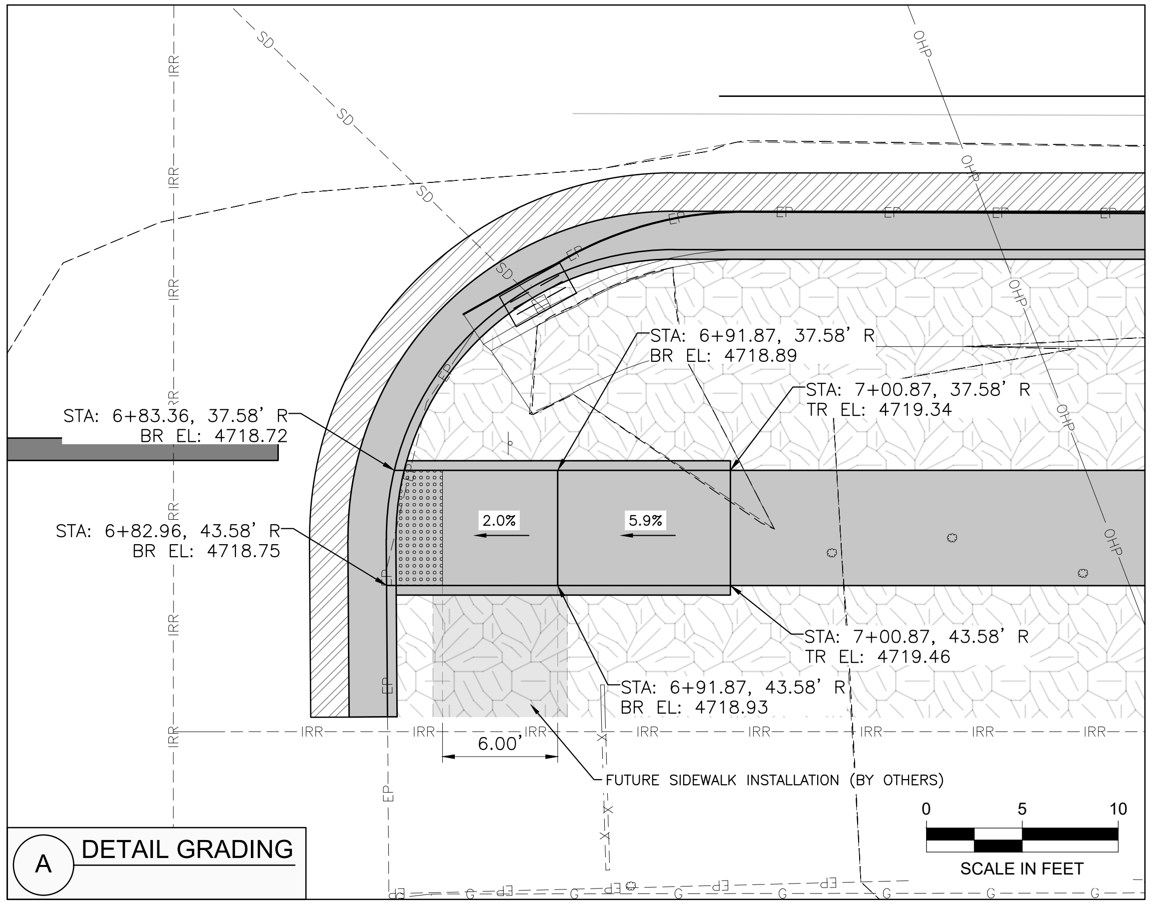
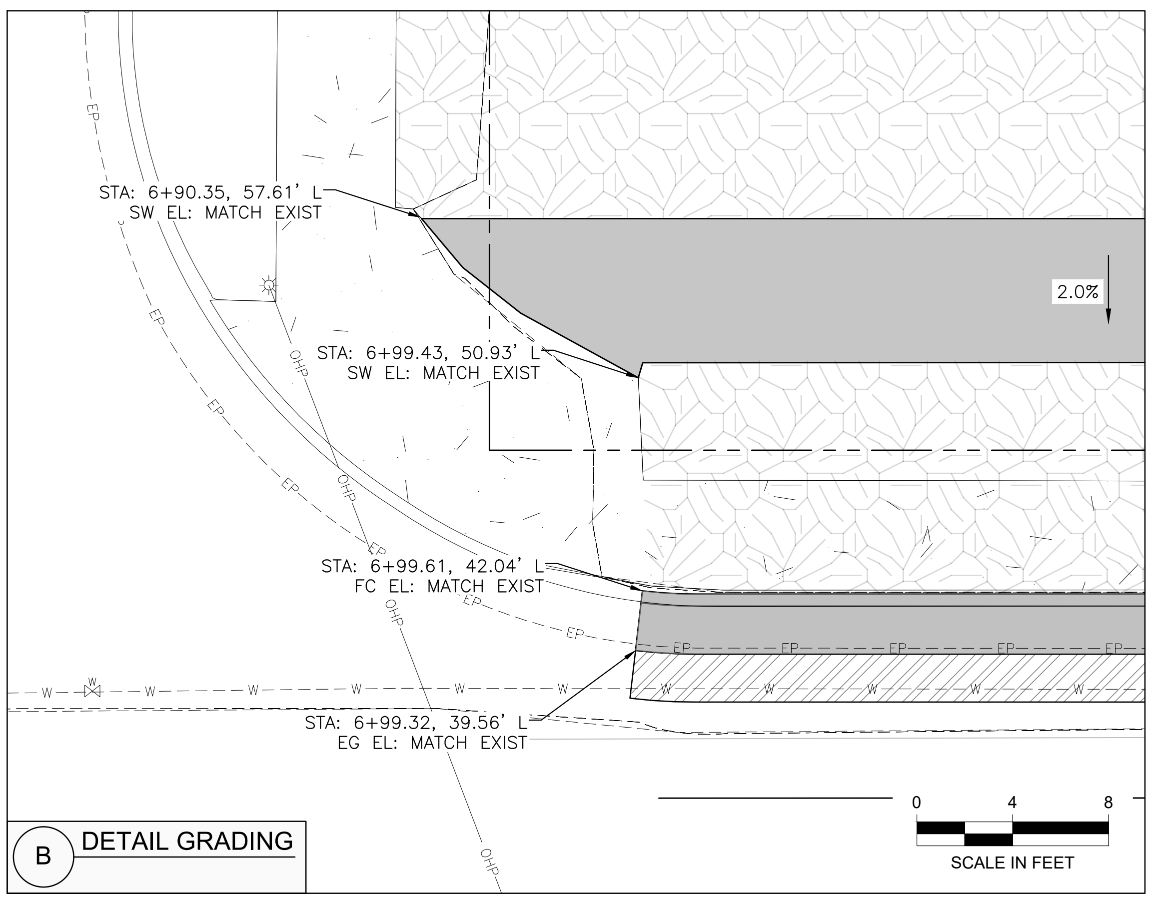
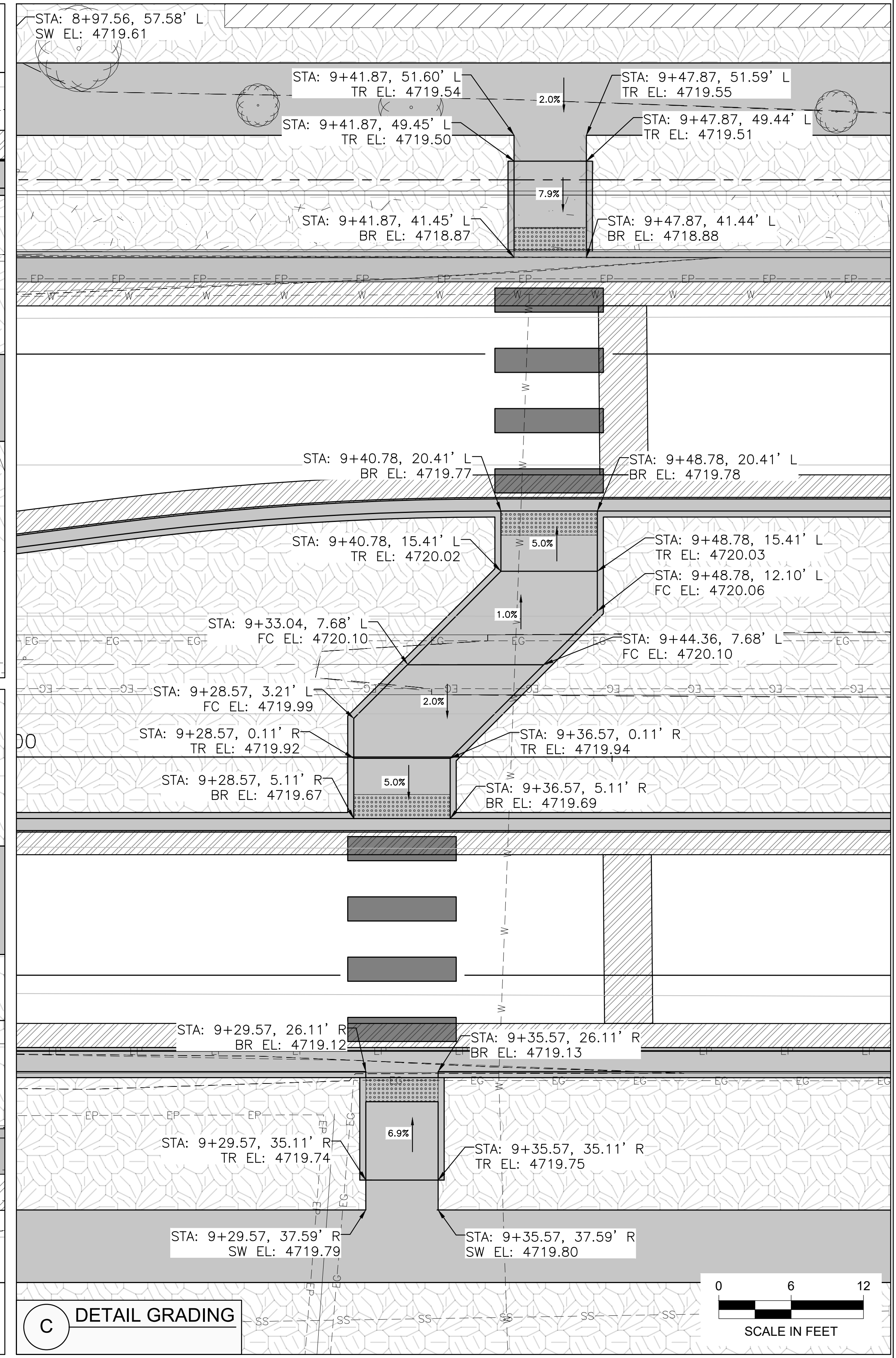
HIGHWAY 6 MMOF
GRADING & DRAINAGE

Designer: EWS
Detailer: MWF
Sheet Subset: GR
Structure Numbers
Subset Sheets: 3 of 11

Project No./Code
M021-004 / 23961
Drawing Number GR-403







LEGEND:

FILL	FILL
CUT	CUT
XXXX.XX	FINISHED GRADE ELEVATION
X.XX%	PROPOSED DRAINAGE GRADE
TC	TOP OF CURB
FC	FACE OF CURB AT GUTTER LINE
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
EG	EDGE OF GUTTER
SW	SIDEWALK
BL	BREAK LINE
EA	EDGE OF ASPHALT
	PROPOSED CONCRETE WORK
	PROPOSED ASPHALT PATCH
	PROPOSED LANDSCAPED AREA

NOTES
1. CURB ELEVATIONS AND SLOPES ARE SHOWN ON SHEETS C-201 THROUGH C-203

N

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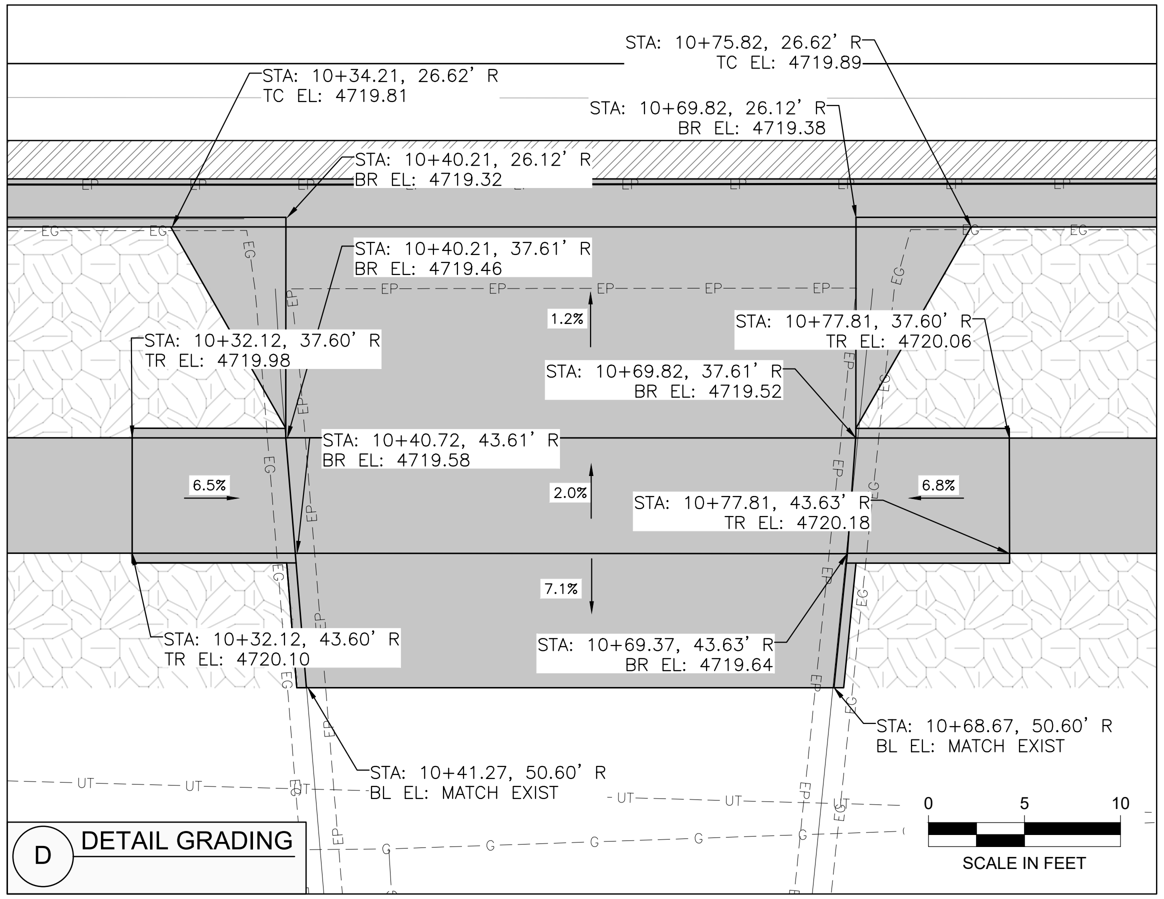
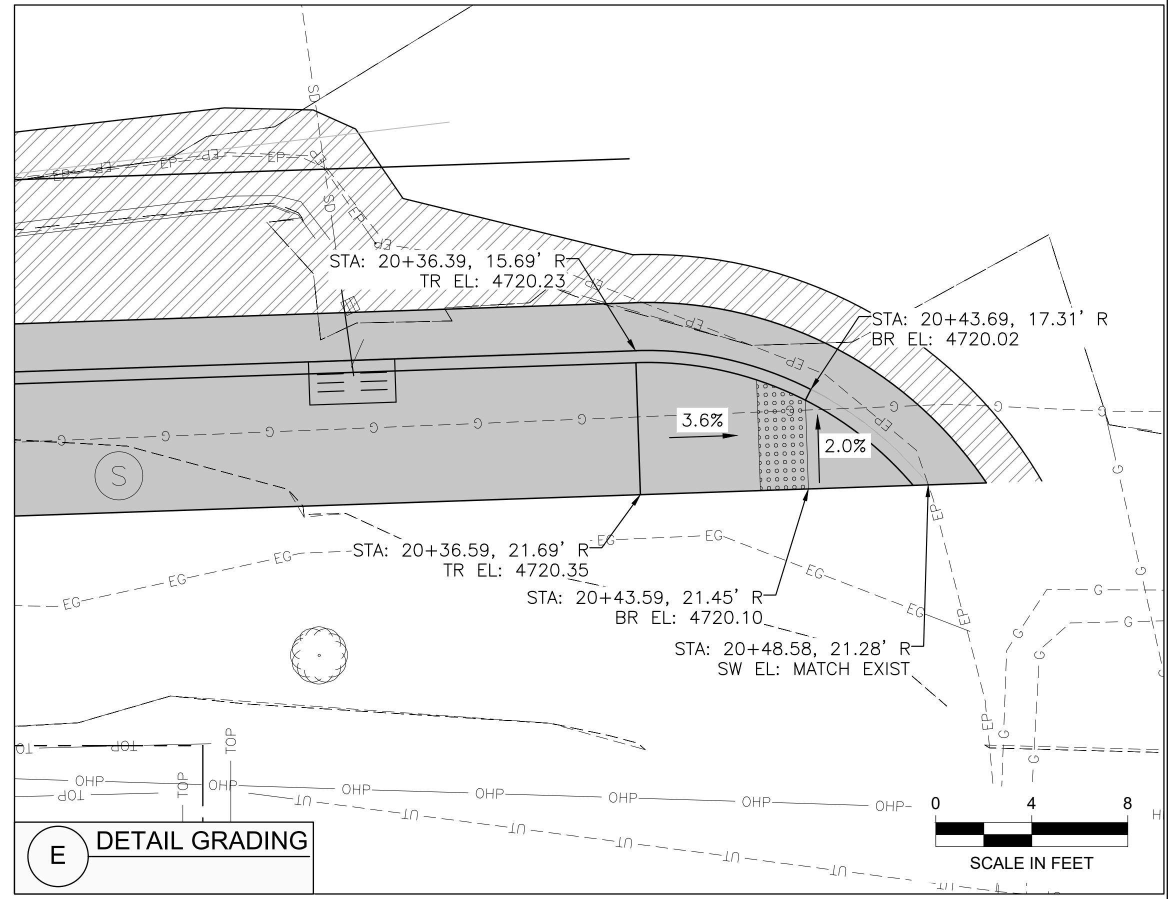
Void:

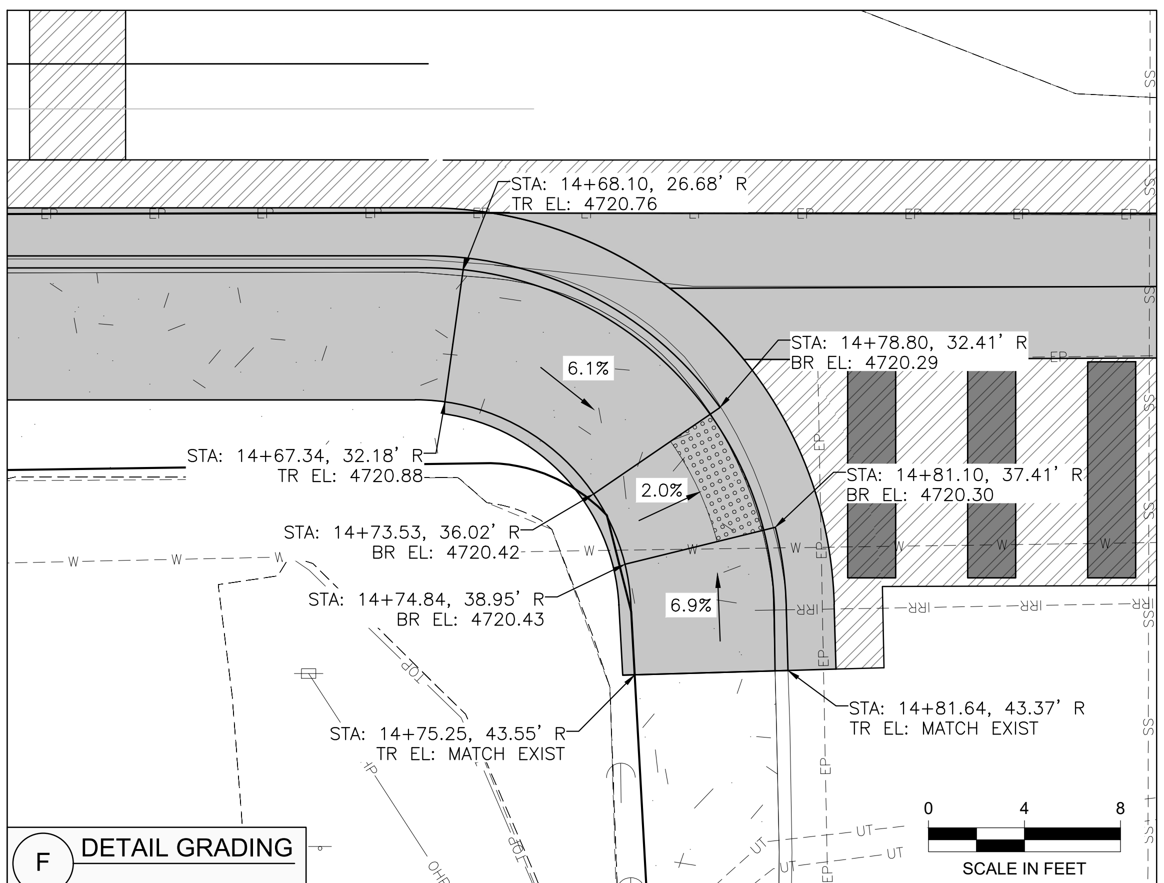
HIGHWAY 6 MMOF
DETAIL GRADING

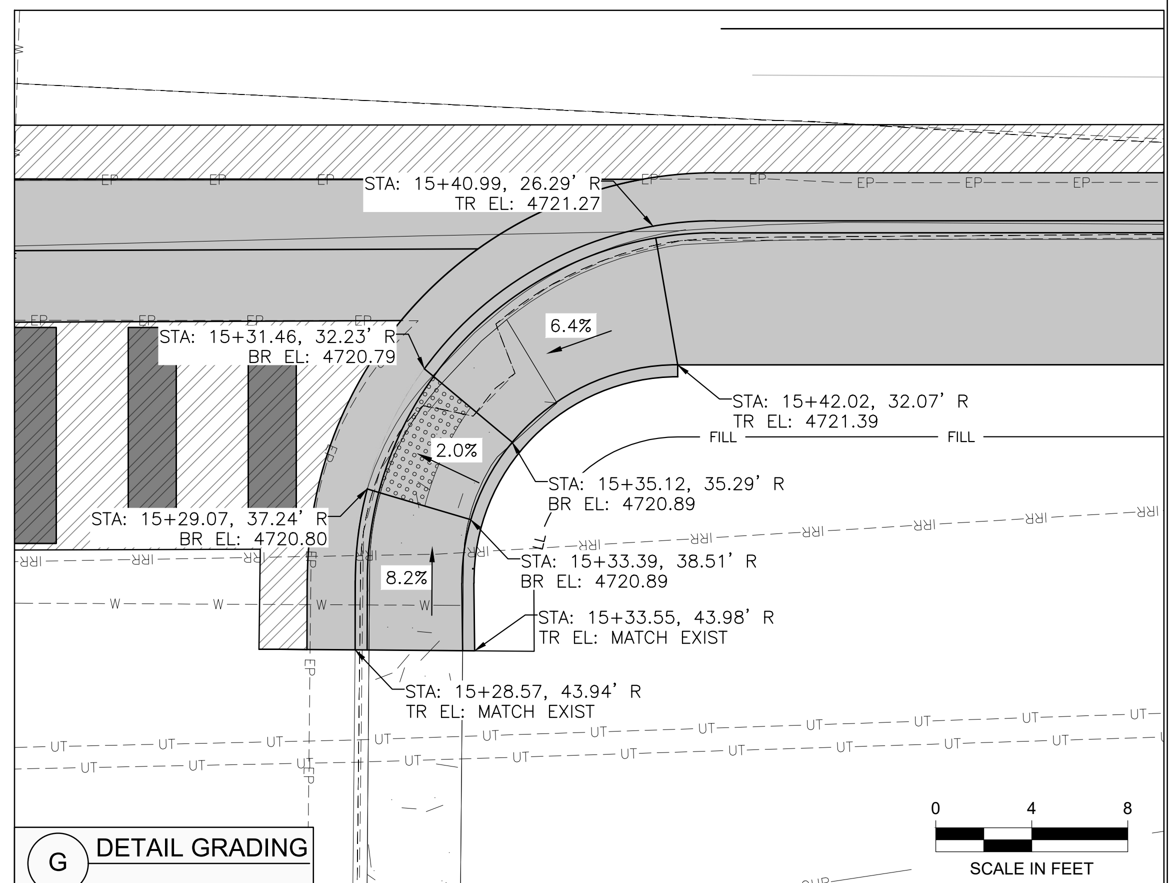
Designer: EWS
Detailer: MWF
Sheet Subset: GR
Structure Numbers
Subset Sheets: 4 of 11

Project No./Code
M021-004 / 23961
Drawing Number GR-404
Sheet Number 32 of 84









LEGEND:

- FILL — FILL
- CUT — CUT
- XXXX.XX — FINISHED GRADE ELEVATION
- X.XX% — PROPOSED DRAINAGE GRADE
- TC — TOP OF CURB
- FC — FACE OF CURB AT GUTTER LINE
- TR — TOP OF RAMP
- BR — BOTTOM OF RAMP
- EG — EDGE OF GUTTER
- SW — SIDEWALK
- BL — BREAK LINE
- EA — EDGE OF ASPHALT
- PROPOSED CONCRETE WORK
- PROPOSED ASPHALT PATCH
- PROPOSED LANDSCAPED AREA

NOTES

1. CURB ELEVATIONS AND SLOPES ARE SHOWN ON SHEETS C-201 THROUGH C-203

N

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COLORADO Department of Transportation

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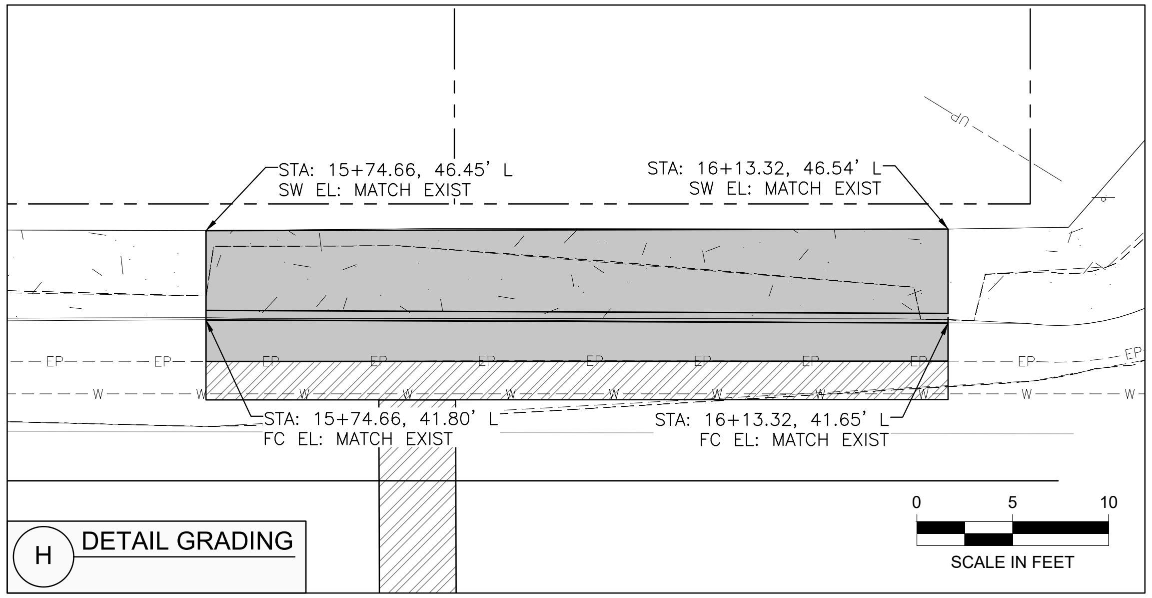
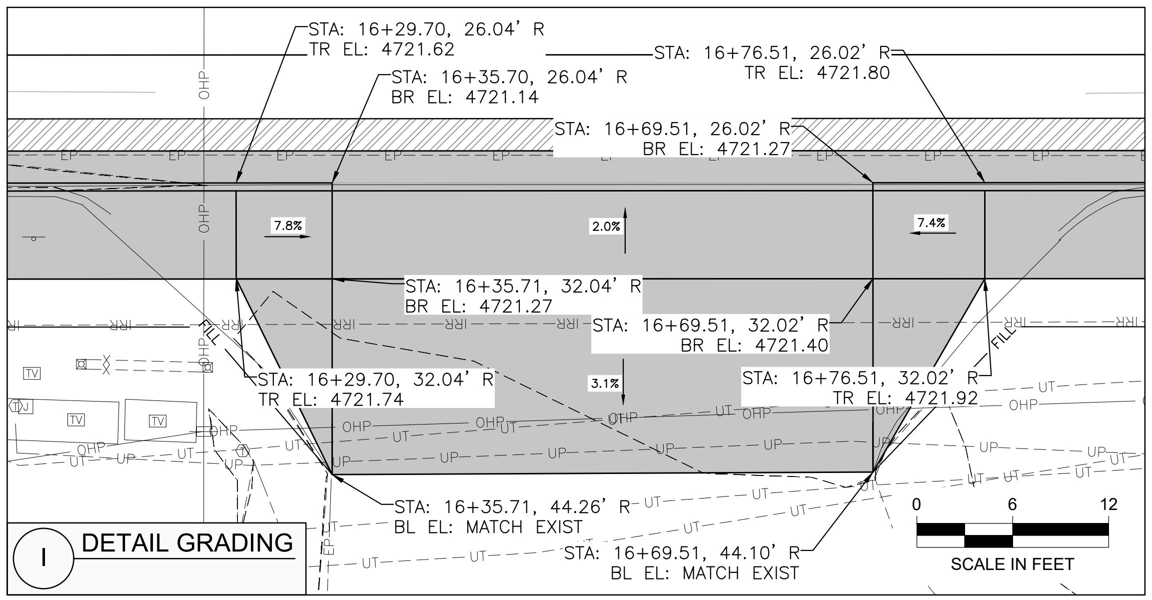
Void:

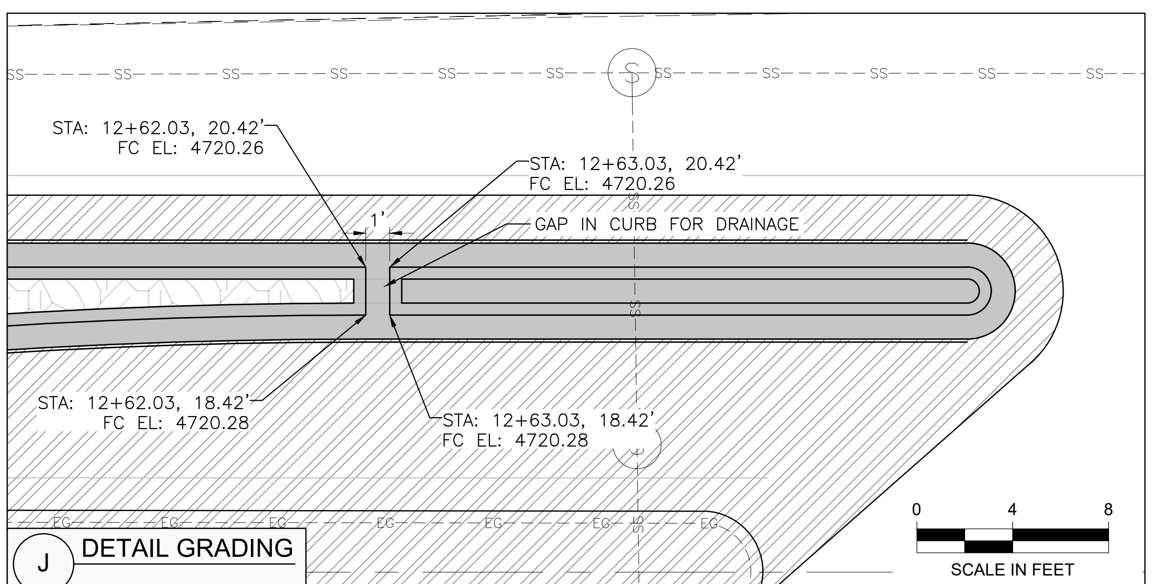
HIGHWAY 6 MMOF
DETAIL GRADING

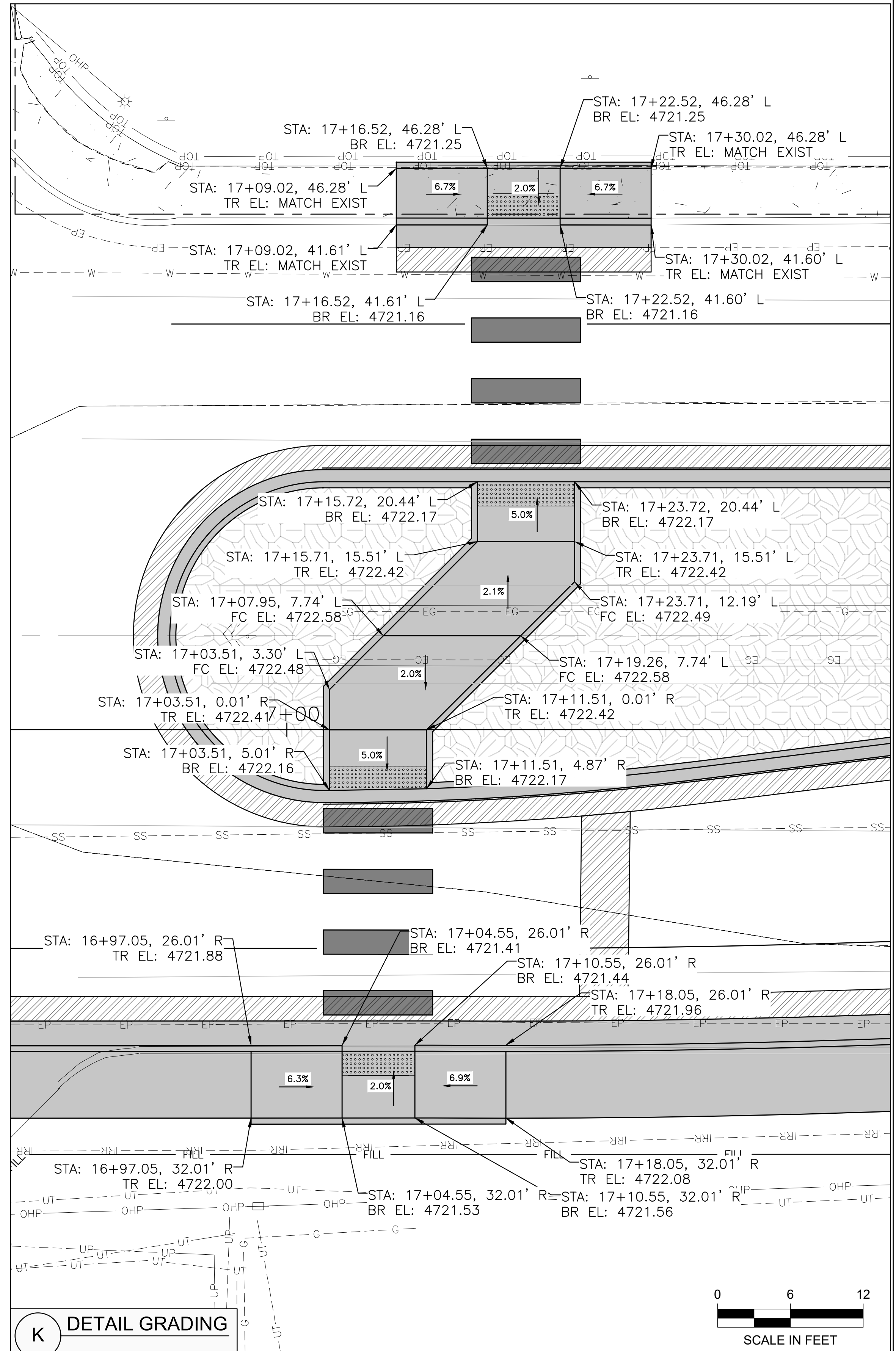
Designer: EWS
Detailer: MWF
Sheet Subset: GR
Structure Numbers
Subset Sheets: 5 of 11

Project No./Code
M021-004 / 23961
Drawing Number GR-405
Sheet Number 33 of 84









LEGEND:

FILL	FILL
CUT	CUT
XXXX.XX	FINISHED GRADE ELEVATION
X.XX%	PROPOSED DRAINAGE GRADE
TC	TOP OF CURB
FC	FACE OF CURB AT GUTTER LINE
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
EG	EDGE OF GUTTER
SW	SIDEWALK
BL	BREAK LINE
EA	EDGE OF ASPHALT
	PROPOSED CONCRETE WORK
	PROPOSED ASPHALT PATCH
	PROPOSED LANDSCAPED AREA

NOTES
1. CURB ELEVATIONS AND SLOPES ARE SHOWN ON SHEETS C-201 THROUGH C-203

N

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

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Sheet Revisions

Date:	Comments

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Phone: (970) 464-1116

COLORADO Department of Transportation

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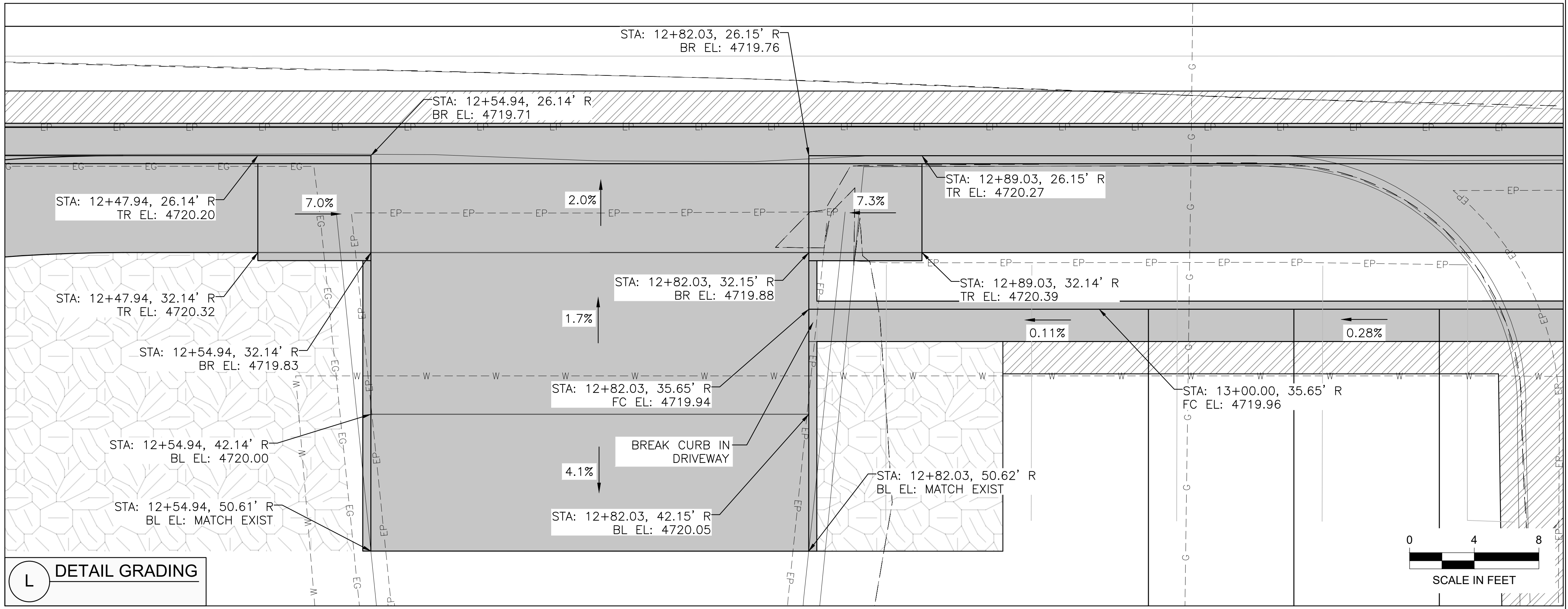
Void:

HIGHWAY 6 MMOF
DETAIL GRADING

Designer: EWS
Detailer: MWF
Sheet Subset: GR
Structure Numbers
Subset Sheets: 6 of 11

Project No./Code
M021-004 / 23961
Drawing Number GR-406
Sheet Number 34 of 84



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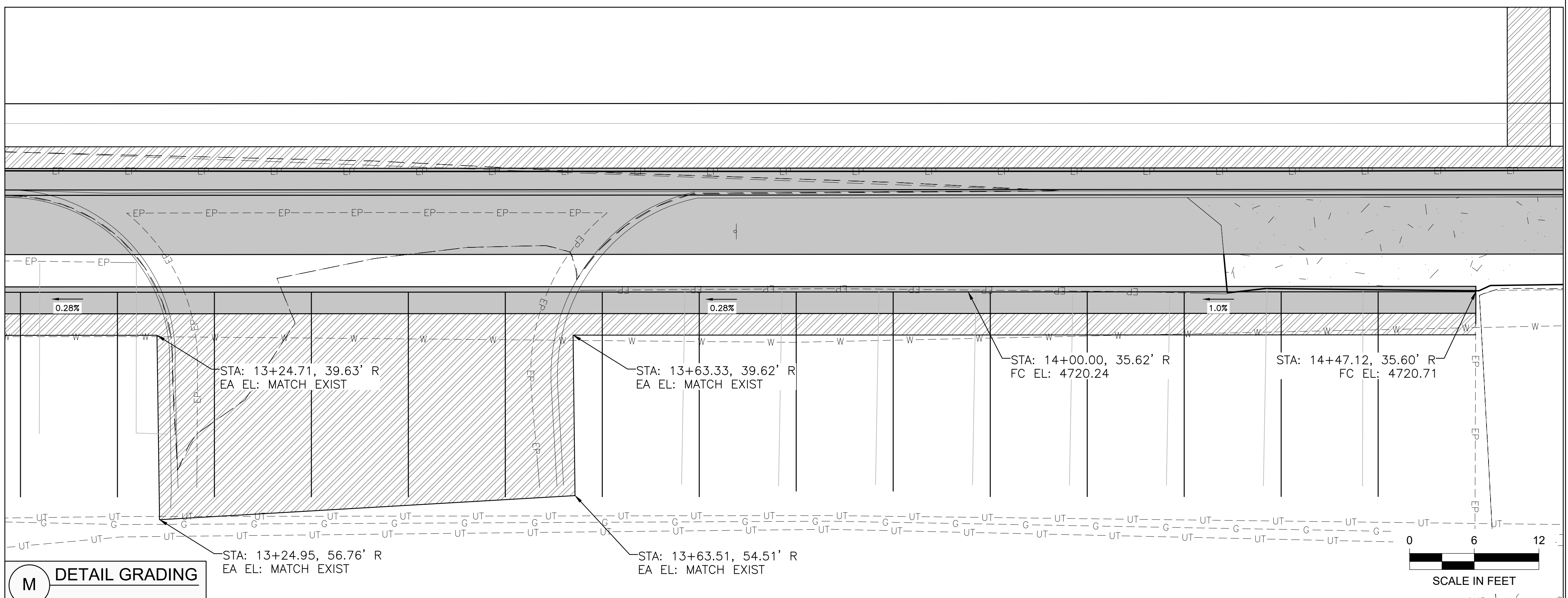

M DETAIL GRADING

LEGEND:

FILL	FILL
CUT	CUT
XXXX.XX	FINISHED GRADE ELEVATION
X.XX%	PROPOSED DRAINAGE GRADE
TC	TOP OF CURB
FC	FACE OF CURB AT GUTTER LINE
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
EG	EDGE OF GUTTER
SW	SIDEWALK
BL	BREAK LINE
EA	EDGE OF ASPHALT

PROPOSED CONCRETE WORK

PROPOSED ASPHALT PATCH

PROPOSED LANDSCAPED AREA

NOTES

1. CURB ELEVATIONS AND SLOPES ARE SHOWN ON SHEETS C-201 THROUGH C-203

N

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

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Sheet Revisions	
Date:	Comments

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COLORADO Department of Transportation

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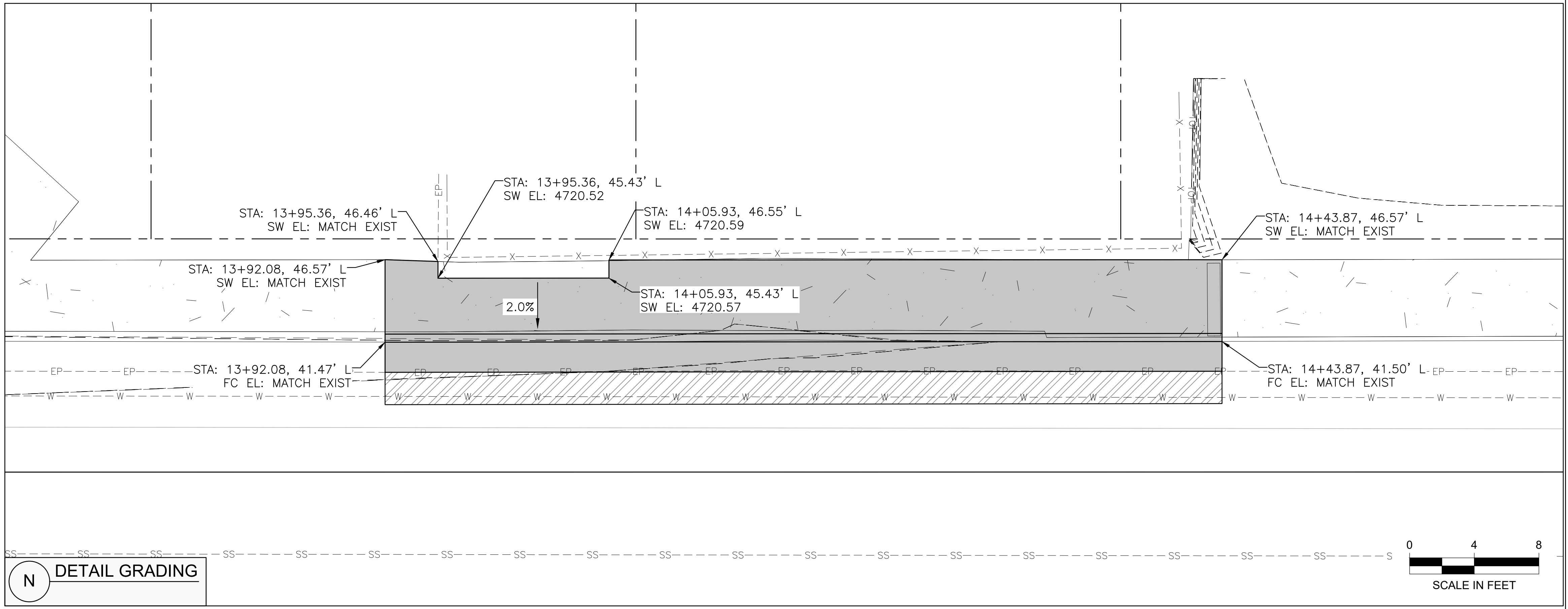
HIGHWAY 6 MMOF
DETAIL GRADING

Designer: EWS
Detailer: MWF
Sheet Subset: GR
Structure Numbers
Subset Sheets: 7 of 11

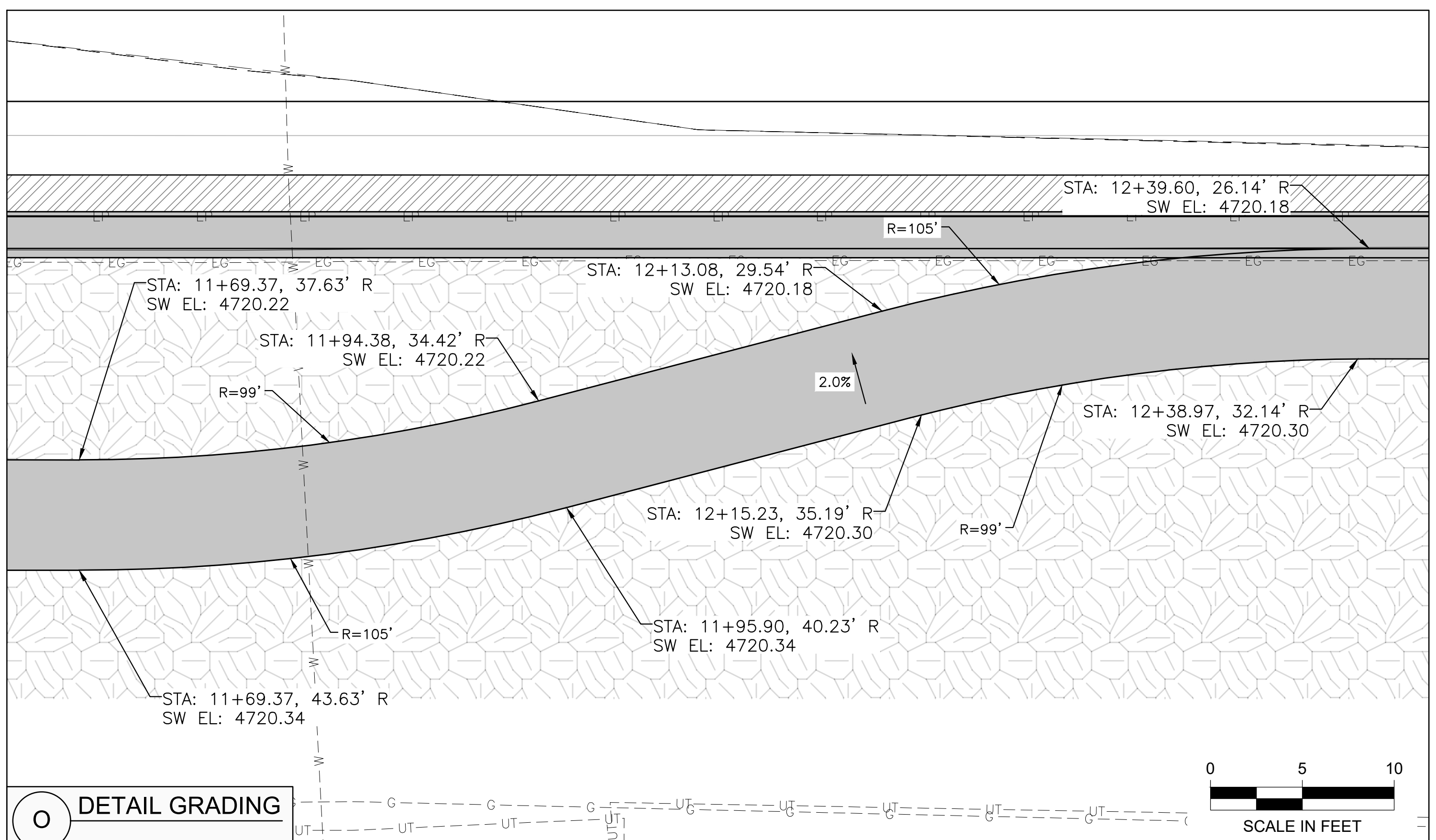
Project No./Code
M021-004 / 23961
Drawing Number GR-407

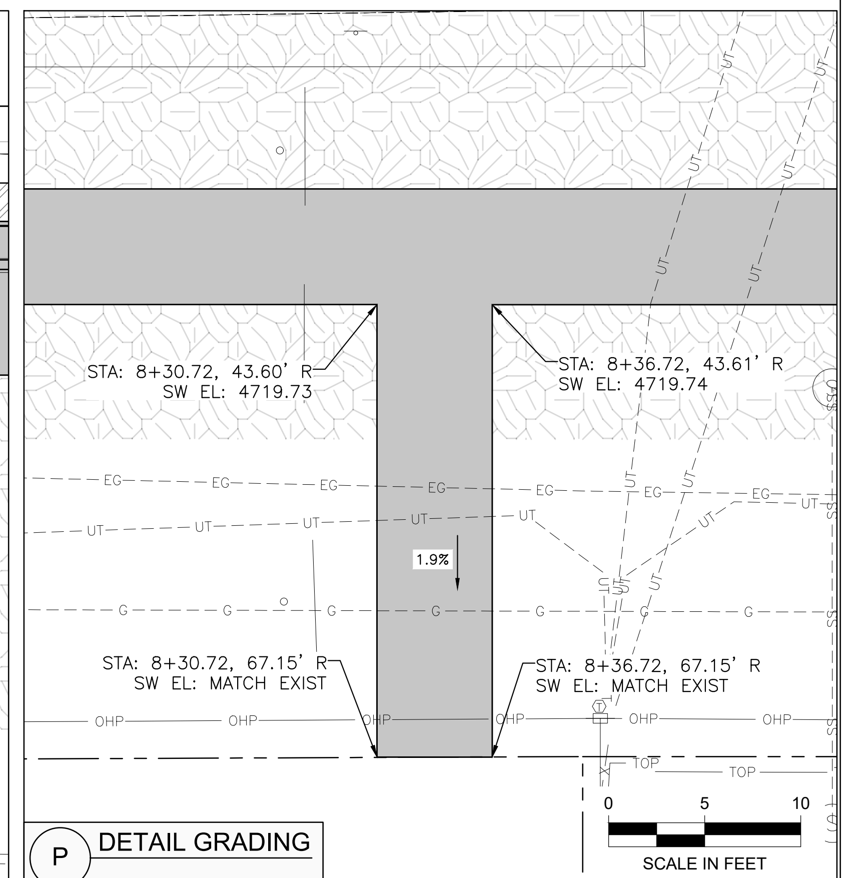


LEGEND:

FILL	FILL
CUT	CUT
XXXX.XX	FINISHED GRADE ELEVATION
X.XX%	PROPOSED DRAINAGE GRADE
TC	TOP OF CURB
FC	FACE OF CURB AT GUTTER LINE
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
EG	EDGE OF GUTTER
SW	SIDEWALK
BL	BREAK LINE
EA	EDGE OF ASPHALT
	PROPOSED CONCRETE WORK
	PROPOSED ASPHALT PATCH
	PROPOSED LANDSCAPED AREA

NOTES
1. CURB ELEVATIONS AND SLOPES ARE SHOWN ON SHEETS C-201 THROUGH C-203





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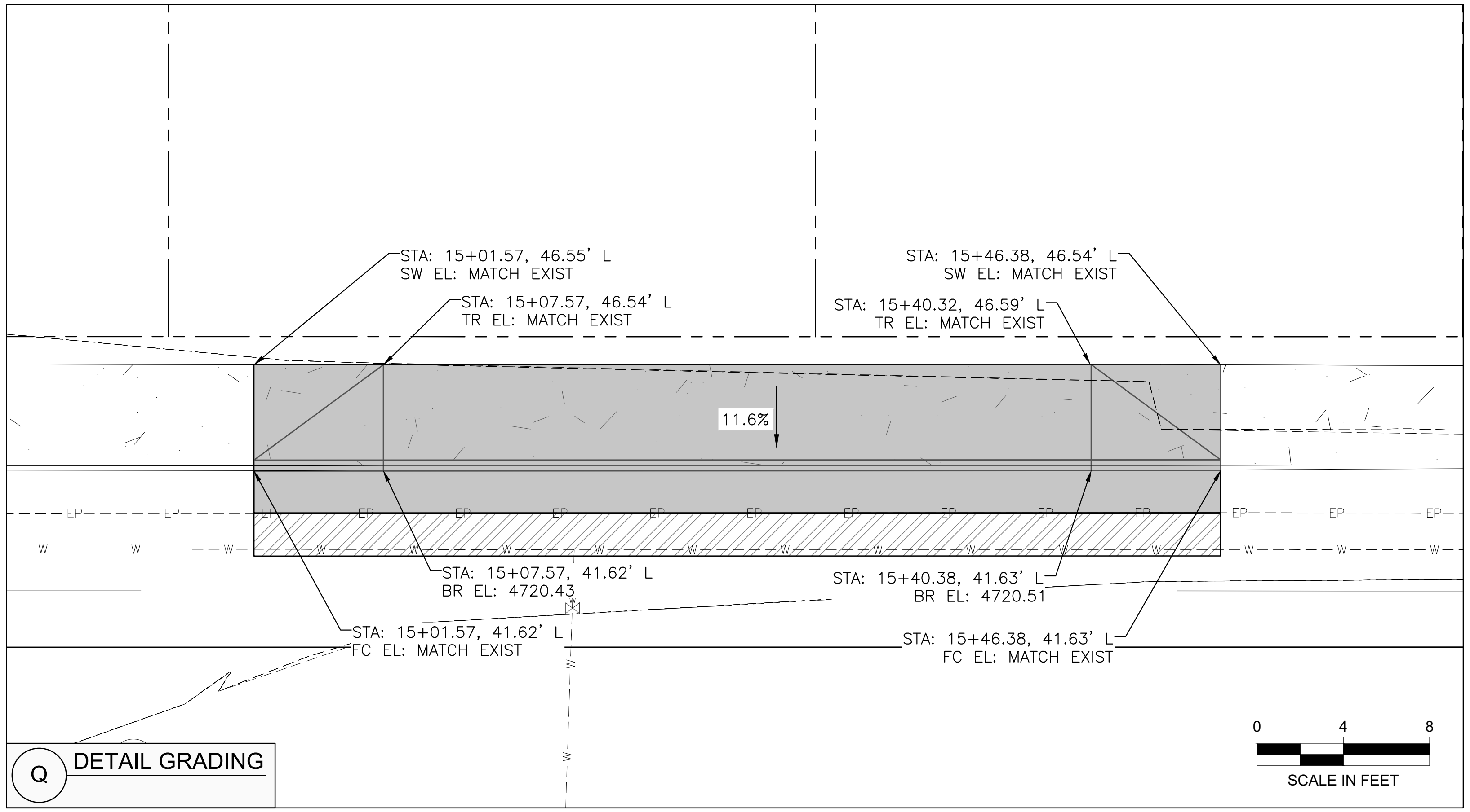
TOWN OF PALISADE COLORADO
175 East Third Street
Palisade, CO 81526
Phone: (970) 464-1116

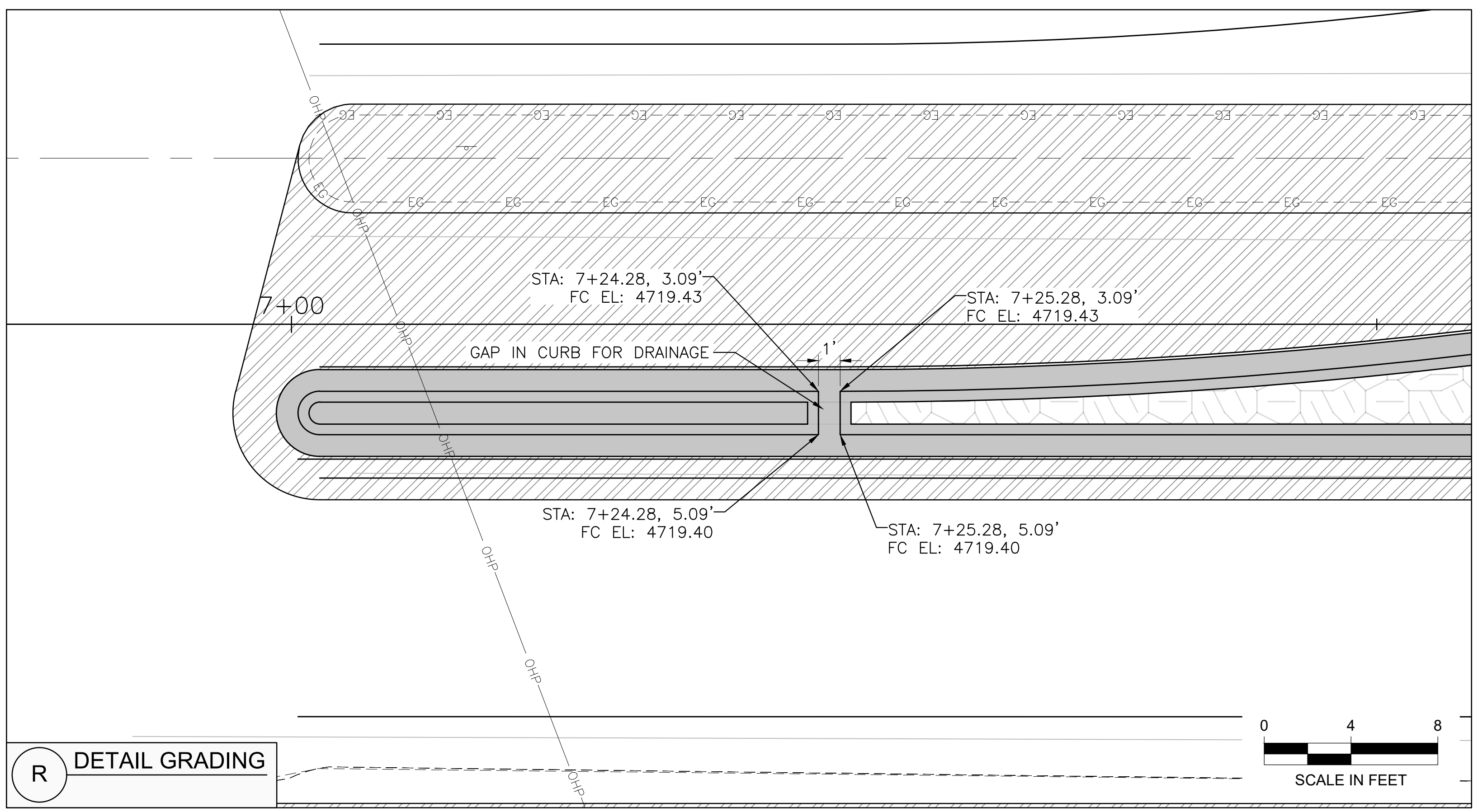
COLORADO Department of Transportation

HIGHWAY 6 MMOF
DETAIL GRADING

Designer: EWS	Structure Numbers		
Detailer: MWF			
Sheet Subset: GR	Subset Sheets: 8 of 11		

Project No./Code	
M021-004 / 23961	
Drawing Number	GR-408
Sheet Number	36 of 84





LEGEND:

FILL	FILL
CUT	CUT
XXXX.XX	FINISHED GRADE ELEVATION
X.XX%	PROPOSED DRAINAGE GRADE
TC	TOP OF CURB
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PROPOSED CONCRETE WORK

PROPOSED ASPHALT PATCH

PROPOSED LANDSCAPED AREA

NOTES
1. CURB ELEVATIONS AND SLOPES ARE SHOWN ON SHEETS C-201 THROUGH C-203

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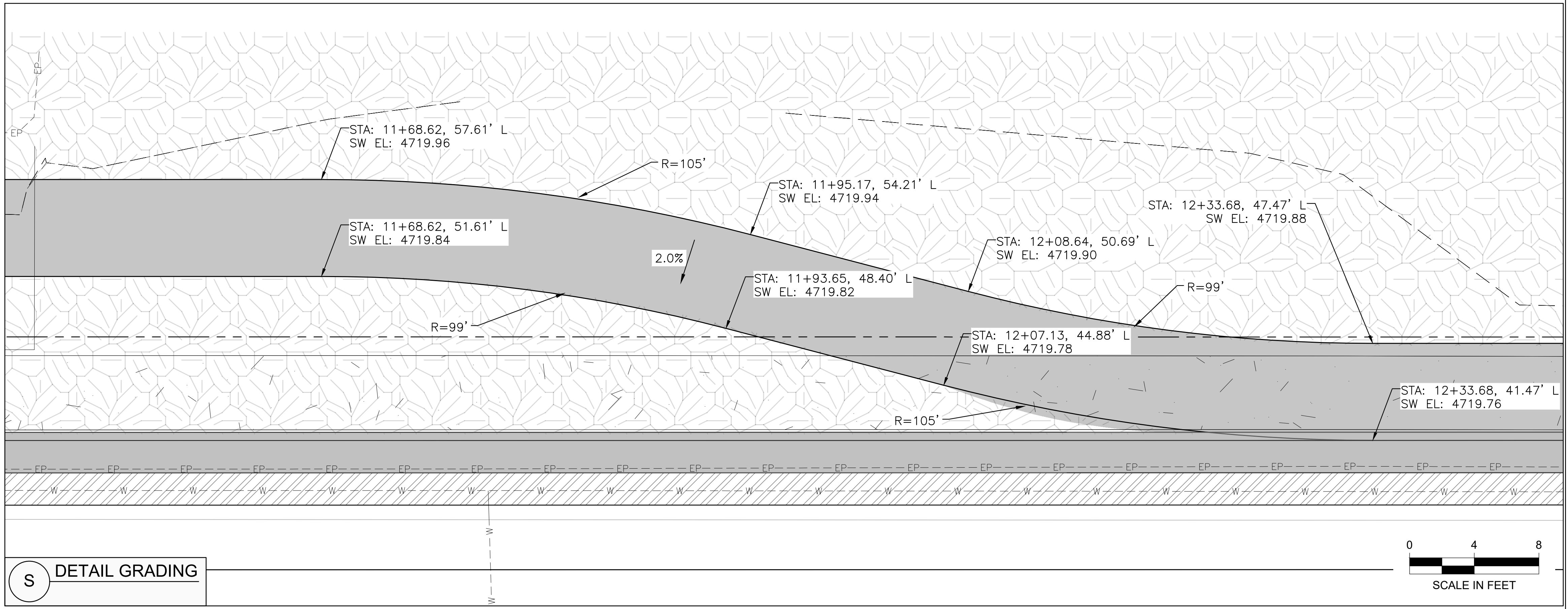
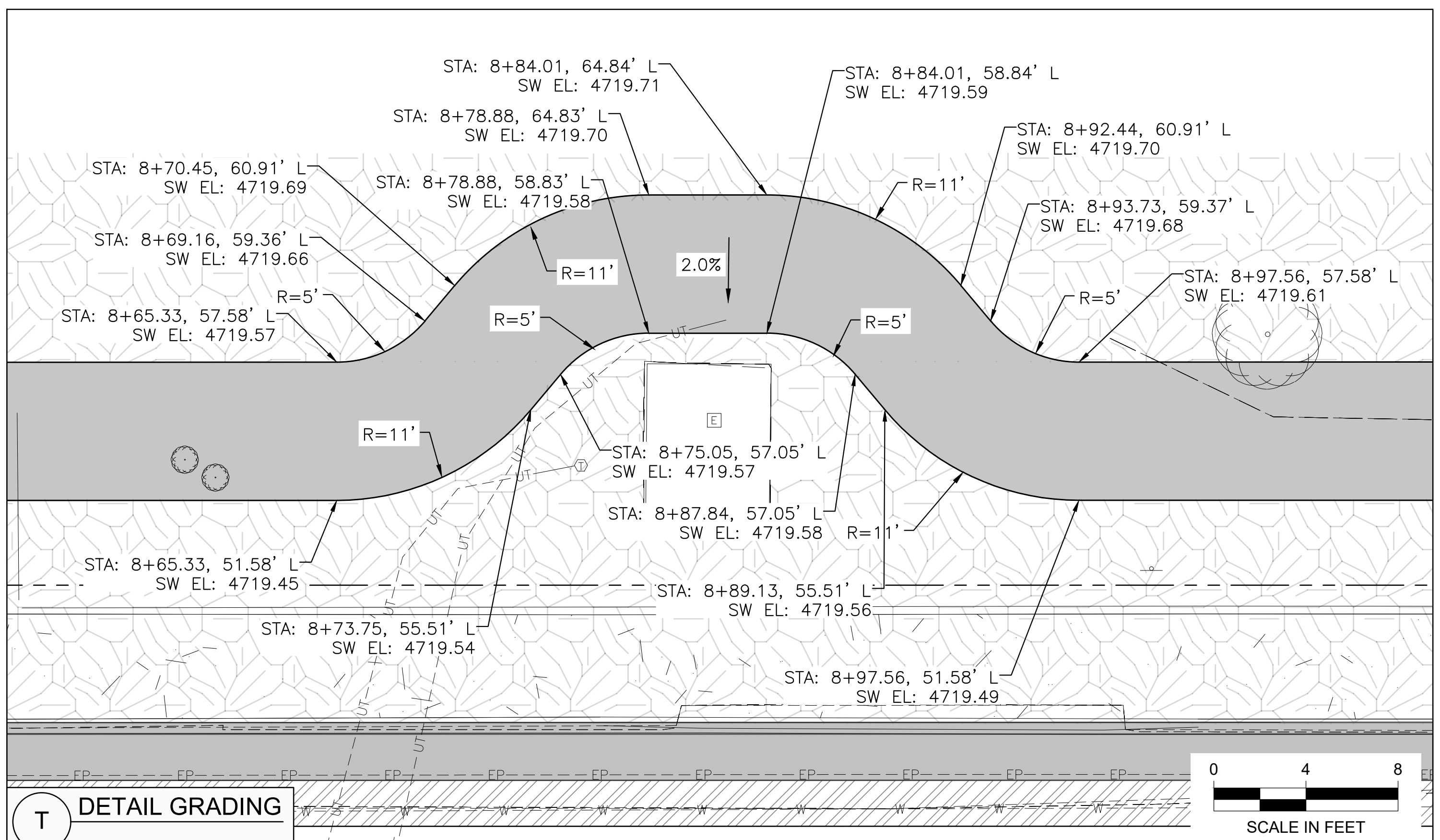
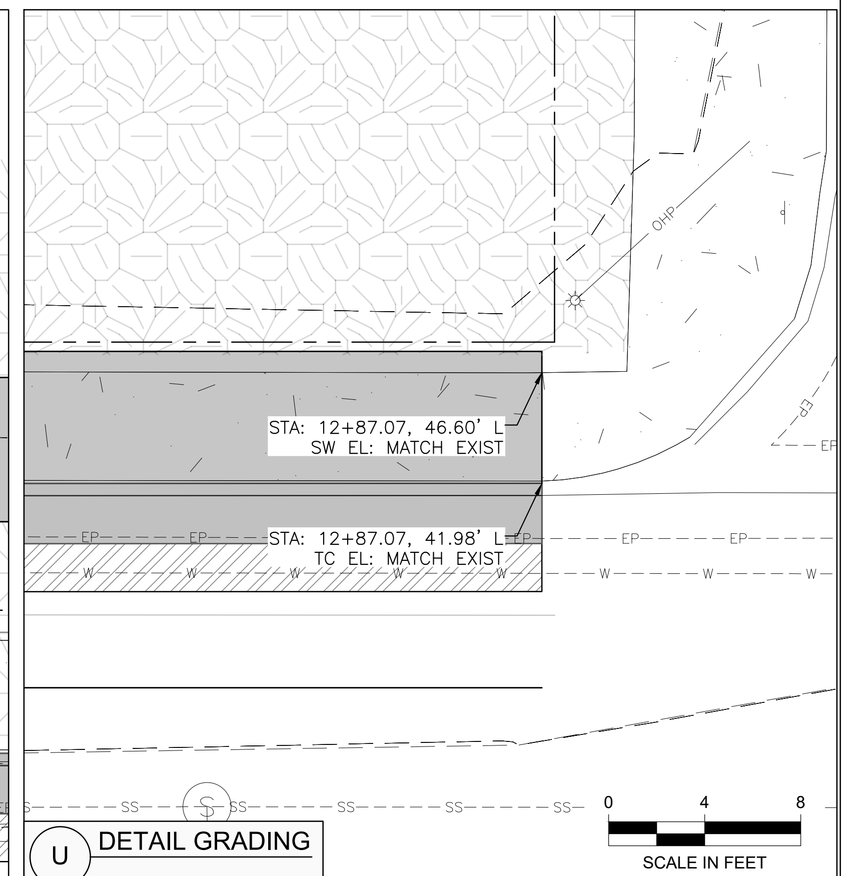
HIGHWAY 6 MMOF
DETAIL GRADING

Designer: EWS
Detailer: MWF
Sheet Subset: GR
Structure Numbers
Subset Sheets: 9 of 11

Project No./Code
M021-004 / 23961
Drawing Number GR-409
Sheet Number 37 of 84







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HIGHWAY 6 MMOF
DETAIL GRADING

Designer: EWS
Detailer: MWF
Sheet Subset: GR
Structure Numbers
Subset Sheets: 10 of 11

Project No./Code
M021−004 / 23961
Drawing Number GR−410
Sheet Number 38 of 84

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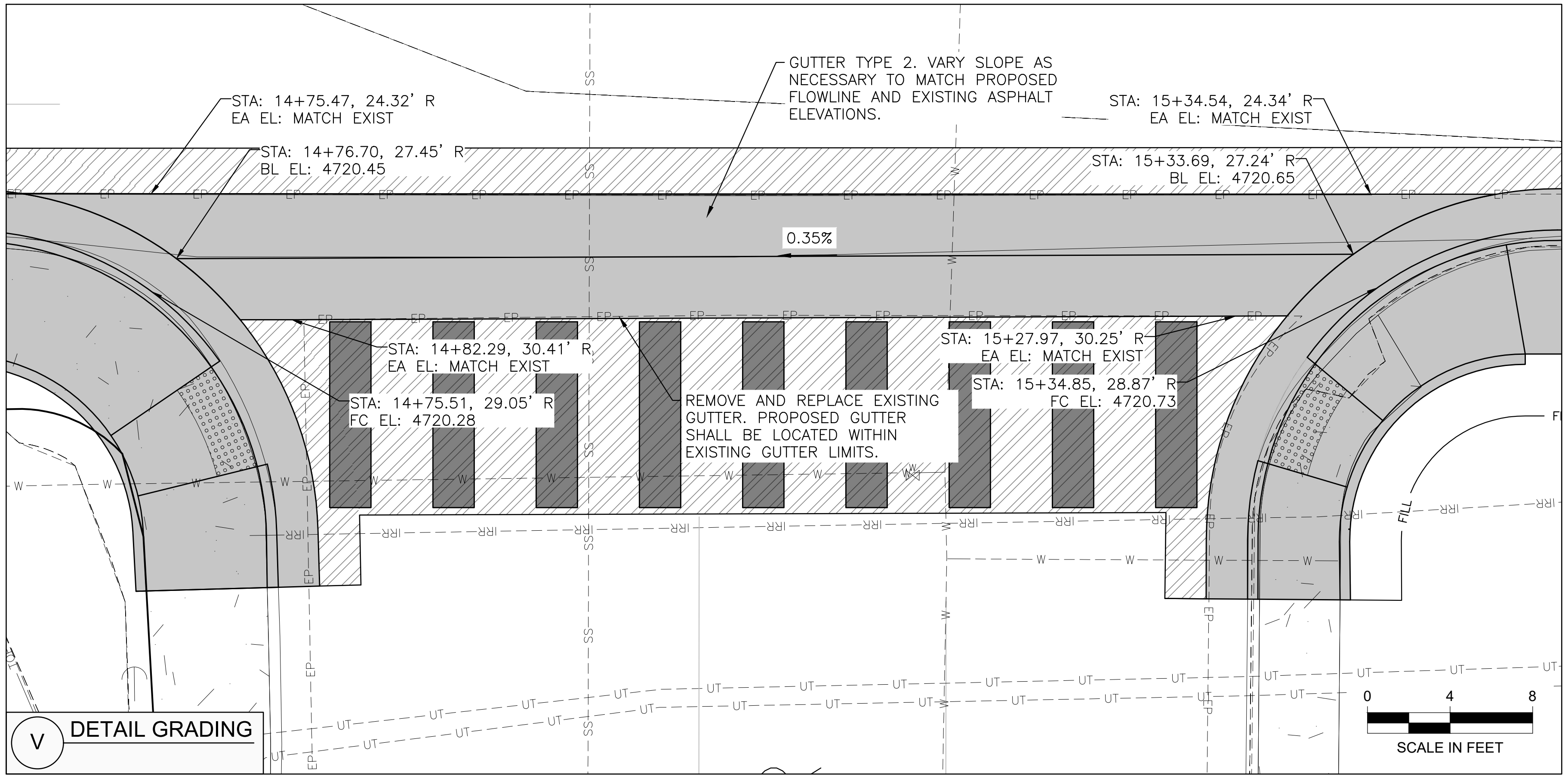

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HIGHWAY 6 MMOF
DETAIL GRADING

Designer: EWS	Structure Numbers		
Detailer: MWF			
Sheet Subset: GR	Subset Sheets: 11 of 11		

Project No./Code
M021-004 / 23961
Drawing Number GR-411
Sheet Number 39 of 84

1. SITE DESCRIPTION

The Contractor shall comply with all CDOT contractual requirements and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

A. PROJECT SITE LOCATION:
The project can be found near the center of the Town of Palisade, along US Highway 6 (otherwise known as West 8th Street or G Road) west of the Colorado River. More specifically, the project can be found at the longitudinal intersection of Township 11 South, Range 98 West of the 6th P.M., and Township 1 South, Range 2 East of the Ute P.M., Mesa County, State of Colorado. The project's eastern limit will be approximately 320' from the Colorado River. The contractor shall coordinate with the Town of Palisade for field office location.

B. PROJECT SITE DESCRIPTION: The improvements on US Highway 6 will include a reduction of the current four lane configuration to a two-lane section with widened sidewalks, shoulder improvements, improved pedestrian safety features, and median plantings.

C. PROPOSED SCHEDULE FOR SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES: Construction will involve work along the entirety of Highway 6 within the project limits. Contractor shall sequence work with proposed Traffic Control phasing. Stabilize all areas that are not paved or landscaped through establishment of vegetation cover.

D. ACRES OF DISTURBANCE:
1. Total area of construction site (LOC (PERMITTED AREA)): 3.56 acres
2. Total area of proposed disturbance (LDA): 3.37 acres
3. Total area of seeding: 0.01 acres
4. Total area of pre-project impervious surface: 124,194 sq. ft.
5. Total area of final impervious surface: 103,109 sq. ft.

E. EXISTING SOIL DATA: According to the National Resources Conservation Services' Web Soil Survey, the site consists of the following soil types:
Gyprockmesa Clay Loam, Hydrologic soil group C
Gyprockmesa Cobbly Clay Loam, Hydrologic soil group
Data Source(s): https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm

F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER: During design, the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the permit.

Pre-Construction Date of survey: 5/12/2021 Percent Existing Vegetative Cover: 5%
Description of existing vegetation: Non-native sod
Method for determining percent vegetative cover: No native vegetation exists within limits of project. Pre-project impervious area exceeds 95%, and percent vegetative cover reflects this.
Include a map or table showing transect locations, photos documenting pre-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

Post-Construction Date of survey: ______________ Percent Vegetative Cover: ______________
Description of vegetation: Date of CDPS-SCP Closure: ______________
The method used to determine pre-construction percent cover shall be used to determine post construction percent cover.
Include map or table showing transect locations, photos documenting post-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

G. POTENTIAL POLLUTANTS SOURCES: Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

H. RECEIVING WATER:
1. Outfall locations: There are multiple inlets within the project boundary, with one outfall at either end of the project. Stormwater within the eastern portion of the of the project boundary drains east into the Colorado River and Stormwater within the western portion of the of the project boundary drains south into the Grand Valley Canal.
2. Names of immediate receiving water(s) on site: Grand Valley Canal
3. Ultimate receiving water(s): Colorado River
4. Description of all stream crossings located within the Construction Site Boundary:

Location	Stream Name	Descsription of Any Disturbed Upand Areas
N/A	N/A	N/A

I. ALLOWABLE NON-STORMWATER DISCHARGES:

Discharge Description	Site Map #	Method Statement (Location)
Uncontaminated Springs		
Concrete Washout Water (in-ground washout structure) #		
Landscape Irrigation Return Flows		
Discharges from Diversions of State Waters		
Emergency Fire Fighting		

J. DESCRIPTION OF DRAINAGE PATTERNS FROM THE SITE: See SWMP site plans

K. ALTERNATIVE DIVERSION CRITERIA: When applicable, The Contractor is to provide a method statement based on data provided by the Hydraulic Engineer. The alternative diversion must be approved by CDPHE's Water Quality Control Division prior to implementation. The diversion method must be designate to minimize the discharge of pollutants and prevent the potential for pollution or degradation to state waters as a result of the diverted flow through the diversion structure. In addition, the alternative diversion method must minimize the discharge of pollutants throughout the installation, implementation and removal of the diversion.

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2. SITE MAP COMPONENTS:

Pre-construction

A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES: See SWMP Site Maps

B. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF DIRECTION: See SWMP Site Maps

C. ALL AREAS OF GROUND SURFACE DISTURBANCE: See SWMP Site Maps

D. AREAS OF CUT AND FILL: See Grading Sheets GR-401 to GR-411

E. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and LOCATIONS OF ALL WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS: Staging area outside of limits of SWMP sheets

F. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP: See SWMP Site Maps

G. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP: See SWMP Site Maps

H. SPRINGS, STREAMS, WETLANDS, DIVERSIONS, AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER: None are located within project limits

I. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY: None are located within project limits

J. PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES: See SWMP Site Maps

K. LOCATIONS WHERE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULES APPLY: See SWMP Site Maps

3. QUALIFIED STORMWATER MANAGERS:

SWMP ADMINISTRATOR FOR DESIGN: CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information	Certification #
Kyle Ritchie	(970) 377-3602, kritchie@jub.com	#14FA892B

L. SWMP ADMINISTRATOR FOR CONSTRUCTION: (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of TECS Certification must be included in the SWMP.)

Name/Title	Contact Information (Phone & Email)	Certification #	Start Date	Engineer Approval

M. EROSION CONTROL INSPECTOR: (As defined in Section 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (Phone & Email)	TECS Certification #	Start Date	Engineer Approval

N. PERMANENT STABILIZATION SUBJECT MATTER EXPERT: This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows, and will be available for questions regarding permanent stabilization requirements. https://www.codot.gov/programs/environmental/assets/construction-phase-inspection-and-verification-checklist-for-successful-roadside-revegetation

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-Construction Conference.
3. Coordinate the Site Pre-Vegetation Conference.
4. Review and recommend approval of products.
5. Review and recommend approval of the Quantities Verification Prerequisite.
6. Attend the Substantial Landscape Completion Walkthrough.
7. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information

4. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. POTENTIAL POLLUTANT SOURCES:
Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.

B. OFFSITE DRAINAGE (RUN ON WATER):
Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.

C. VEHICLE TRACKING CONTROL:
Control measures shall be implemented in accordance with subsection 208.04.

D. PERIMETER CONTROL:
1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters. Perimeter control shall be in accordance with subsection 208.04
2. Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

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5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION: Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, SWMP Administrator for Construction shall add, update, or amend the items A-G below as needed in accordance with subsection 208.03.

During construction, indicate how items have were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

A. MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN: prior to construction commencing the Contractor shall submit a Spill Response Plan, see subsection 208.06. Materials handling shall be in accordance with subsection 208.06.

B. OTHER CDPS PERMITS: List applicable CDPS permits associated with the permitted site and activities.

C. STOCKPILE MANAGEMENT: Shall be done in accordance with subsections 107.25 and 208.07

D. CONCRETE WASHOUT: Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

E. SAW CUTTING: Shall be done in accordance with subsections 107.25, 208.04, 208.05

F. STREET SWEEPING: Shall be done in accordance with subsection 208.04

6. INSPECTIONS

A. Water Quality Inspections shall be in accordance with subsection 208.03(c).
B. Permanent Stabilization Inspections shall be in accordance with subsections 207.03 and 212.05.

7. CONTROL MEASURE MAINTENANCE

Maintenance shall be in accordance with subsection 208.04(f).

8. RECORD KEEPING

Records shall be kept in accordance with subsection 208.03(d).

9. INTERIM, PERMANENT STABILIZATION and LONG TERM STORMWATER MANAGEMENT

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

A. SEEDING PLAN: The following seed mix(es) and rates are for drill seeding method as shown on the Permanent Stabilization Site Maps shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Buffalograss Buchloe dactyloides	Buchloe dactyloides	5
Canadian Wildrye Elymus canadensis	Elymus canadensis	3.75
Sideoats Grama Bouteloua curtipendula	Bouteloua curtipendula	4.5
Blue Grama Bouteloua gracilis	Bouteloua gracilis	4.25
Slender Wheatgrass Elymus trachycaulus	Elymus trachycaulus	5
Western Wheatgrass Pascopyrum	Pascopyrum	2.5
	Total	25

B. SEEDING APPLICATION METHOD: The following seeding methods shall be used for all areas shown on the Permanent Stabilization Site Maps. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

SEEDING METHOD (subsection 212.05)	ACRE
Seeding (Native) Drill, CDOT Pay Item 212-00706	0.01
	0.01

C. SOIL STABILIZATION METHODS: Minimum soil stabilization methods (attached mulch) for all disturbances to receive seeding.

1. Apply certified weed free hay or certified weed free straw and mechanically crimp into the soil in combination with natural mulch tackifier in accordance with Section 213.

D. SPECIAL REQUIREMENTS:

1. Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete interim stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department.
2. Complete permanent stabilization mulching within 24 hours of hydraulic application of native seed.
3. The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how implementation of SWMP Permanent Stabilization Plans will minimize damage to seeded areas.

E. SOIL AMENDMENT REQUIREMENTS: Minimum amendment material requirements for all disturbances to receive seeding.

0.01 Total Acres of Seeding (Native) Drill Seeding (Native) Drill

	Pay Item	Description	Amount/Acre	Units	Total For this Method
Seeding (Native) Drill Pay Item 212-00706	212-00700	Organic Fertilizer High N	300	Pounds	30
	212-00701	Compost (Mechanically Applied)	65	CY	0.65
	212-00703	Humate	200	Pounds	20
	212-00704	Mycorrhizae	0	Pounds	0
	212-00705	Elemental Sulfur	0	Pounds	0

F. Permanent Stabilization Application Under Structures: Under structures shade patterns should be considered and the use of Median Cover Material (Stone) or other stabilized options with an approved Project Special Provision should be used. See SWMP Site Map for locations.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:

Prior to partial acceptance.

1. All seeded areas shall be reviewed during the 7 day inspections by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas until Partial Acceptance of the stormwater construction work.

H. LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES: Is Permanent Water Quality Required. Yes ______ No ___X___.

10. PRIOR TO PROJECT FINAL ACCEPTANCE

A. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
B. At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap.
C. All storm drains shall be cleaned prior to the Final Acceptance of the project. Work shall be incidental to the cost of the pipe installation.
D. Refer to Specification 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.

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11. NARRATIVES

Control Measure Matrixes During Construction:

1. Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an “X” in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be add to the SWMP. The appropriate “X” shall also be added to the implementation phase(s).
2. The SWMP Administrator for Construction shall place an “X” in the column In Use On Site when the control measure has been installed.
3. A “B” in the Initial Activities Column indicates that the control measure shall be installed **before** construction activity starts. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to the following:

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or “X” for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
PROTECTION OF EXISTING WETLANDS Fence (plastic) and erosion logs	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.					
PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of sensitive habitat, mature trees and/or existing landscaping prior to start of construction disturbances.			B	X	
CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208				
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208				
Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)	Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.	M-208				
CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to the start of construction disturbances.	M-208				
TYPE C, TYPE D AND TYPE 13 PROTECTION Erosion logs, aggregate bags, erosion bales	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to the start of construction disturbances.	M-208		B	X	
*STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags**	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpiling, increase control as the stockpile increases size.	M-208			X	
*TOE OF FILL PROTECTION Erosion logs, temporary berm, silt fence, topsoil windrow**	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208				
*PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow**	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		B	X	
SEDIMENT CONTROL/SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to the start of construction disturbances.	M-208				
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to the start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208				
EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208				
OUTLET PROTECTION Riprap, or approved other	Material placed as an energy dissipater to prevent erosion at outlet structure.	M-601-12				
CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to the start of concrete activities.	M-208		X	X	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to the start of construction disturbances.	M-208				
Engineered SEDIMENT BASIN	Constructed early in the project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible					
DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.					
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.					
CLEAN WATER DIVERSION	Placed to divert clean surface or groundwater around the disturbance area to prevent it from mixing with construction runoff.					
OTHER						

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NON-STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:
Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

- **Use of vegetative buffer strip requirements.** The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity - CDPS Permit No. COR4000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a "finishing" component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: **https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf**

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD"	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
** VEGETATIVE BUFFER STRIP Fence (plastic)*	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.					
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting.	M-208				
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Windrow or stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified.	M-208		x	x	x
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.					
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.					
BONDED FIBER MATRIX or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.					
Straw or Hay MULCH/MULCH TACKIFIER	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer					x
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer					
SEEDING PERMANENT (NATIVE PERENNIAL)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					x
SOIL RETENTION BLANKET (SRB)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216				
TURF REINFORCEMENT MAT (TRM)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.	M-216				
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			x	x	x
OTHER						

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M021-004 / 23961
Drawing Number SW-505

12. TABULATION OF STORMWATER QUANTITIES

A. Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.

B. It is estimated that 20 hours of dozing (130-250 horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: 203 Dozing

Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
207-00700	Topsoil (Onsite)	CY			3	3
208-00002	Erosion Log Type 1 (12 inch)	LF	620	620		1240
208-00035	Aggregate Bag	LF	80	80		160
208-00046	Pre-fabricated Concrete Washout Structure (Type 1)	Each	1	1		2
208-00054	Storm Drain Inlet Protection (Type II)	Each	5	5		10
208-00103	Removal and Disposal of Sediment (Labor)	Hour	12	12		24
208-00105	Removal and Disposal of Sediment (Equipment)	Hour	12	12		24
208-00106	Sweeping (Sediment Removal)	Hour	12	12		24
208-00207	Erosion Control Management	Day	4	2	2	8
212-00700	Organic Fertilizer	Pounds			30	30
212-00701	Compost (Mechanically Applied)-	CY			1	1
212-00703	Humate	Pounds			20	20
212-00706	Seeding (Native) Drill	Acre			0.01	0.01
213-00002	Mulching (Weed Free Hay)	Acre			0.01	0.01
213-00061	Mulch Tackifier	LB			2	2
607-11525	Fence (Plastic)	LF	156	156		312
700-70380	F/A Erosion Control	FA				1

* It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated, and have been increased for unforeseen conditions and normal control measure life expectancy.** Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

** Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.

*** F/A refers to CDOT's Force Account Pay Items.

13. BIOLOGICAL IMPACTS and DEWATERING

A. ENVIRONMENTAL IMPACTS:

1. Wetland Impacts: NO
2. Stream Impacts: NO
3. Threatened and Endangered Species: No species are anticipated to be impacted by the project

B. DEWATERING: (Not covered under the *CDPHE* guidance document *Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land*): https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf

1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

14. NOTES

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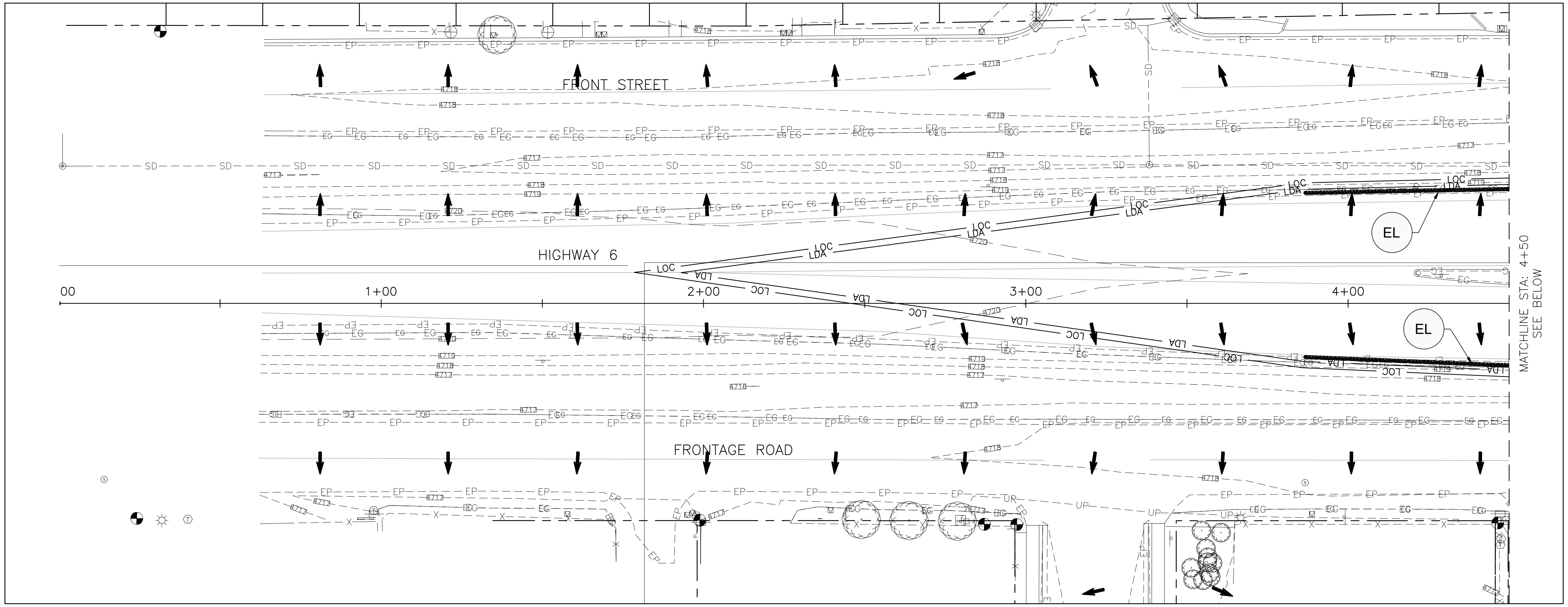

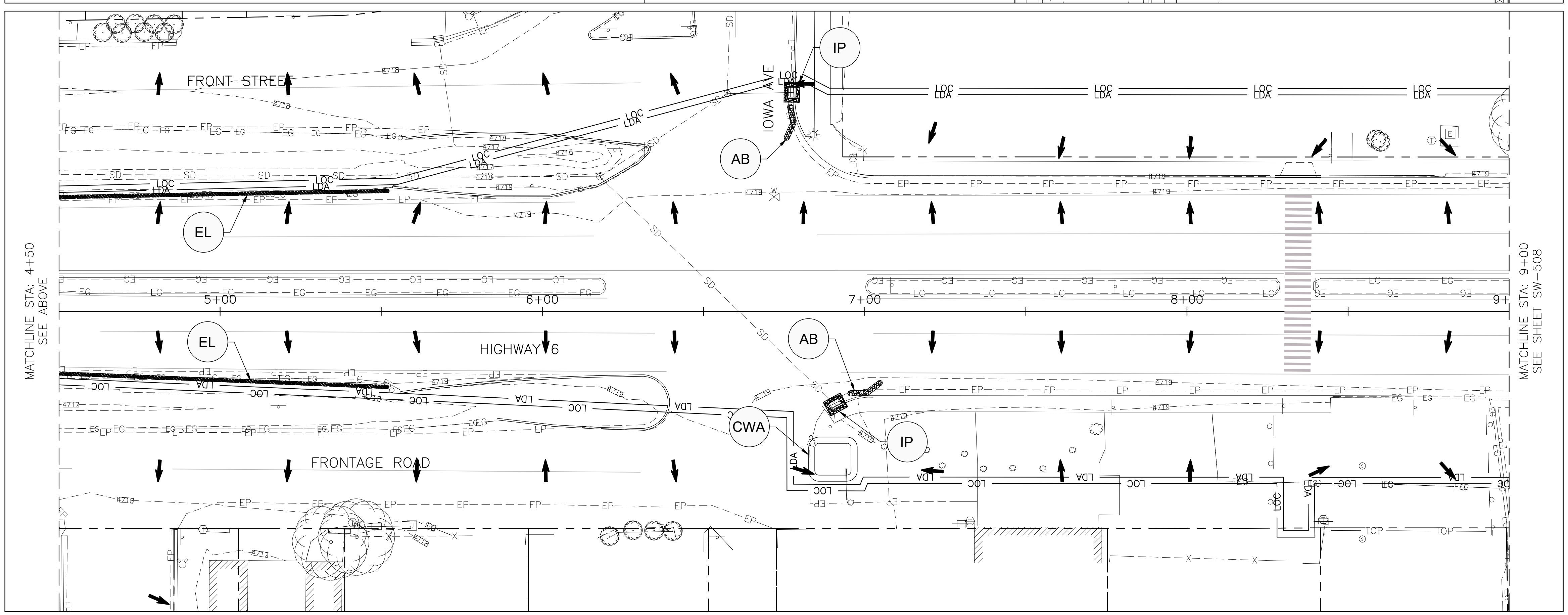

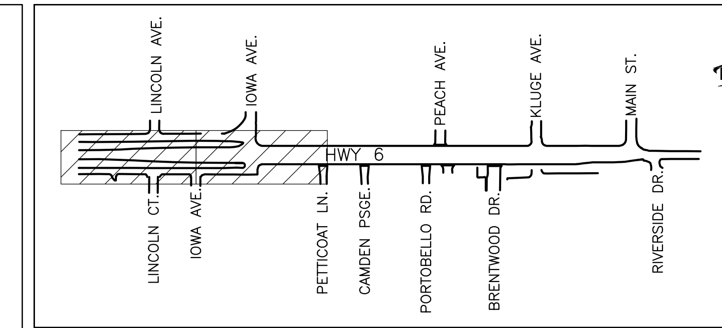

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AGGREGATE BAGS	AB		MULCHING	MU	MU
SILT FENCE	SF	SF	PERMANENT SEEDING (LAWN MIX, SEE DRAWING SW-501 FOR SEED MIX)	PS	
EROSION LOGS	EL		DRAINAGE FLOW PATTERN		
STORM DRAIN INLET PROTECTION	IP				

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LIMITS OF DISTURBANCE	LDA	PROPOSED MINOR CONTOUR	4968
LIMITS OF CUT	CUT	EXISTING MAJOR CONTOUR	4970
LIMITS OF FILL	FILL	EXISTING MINOR CONTOUR	4968

NOTES:

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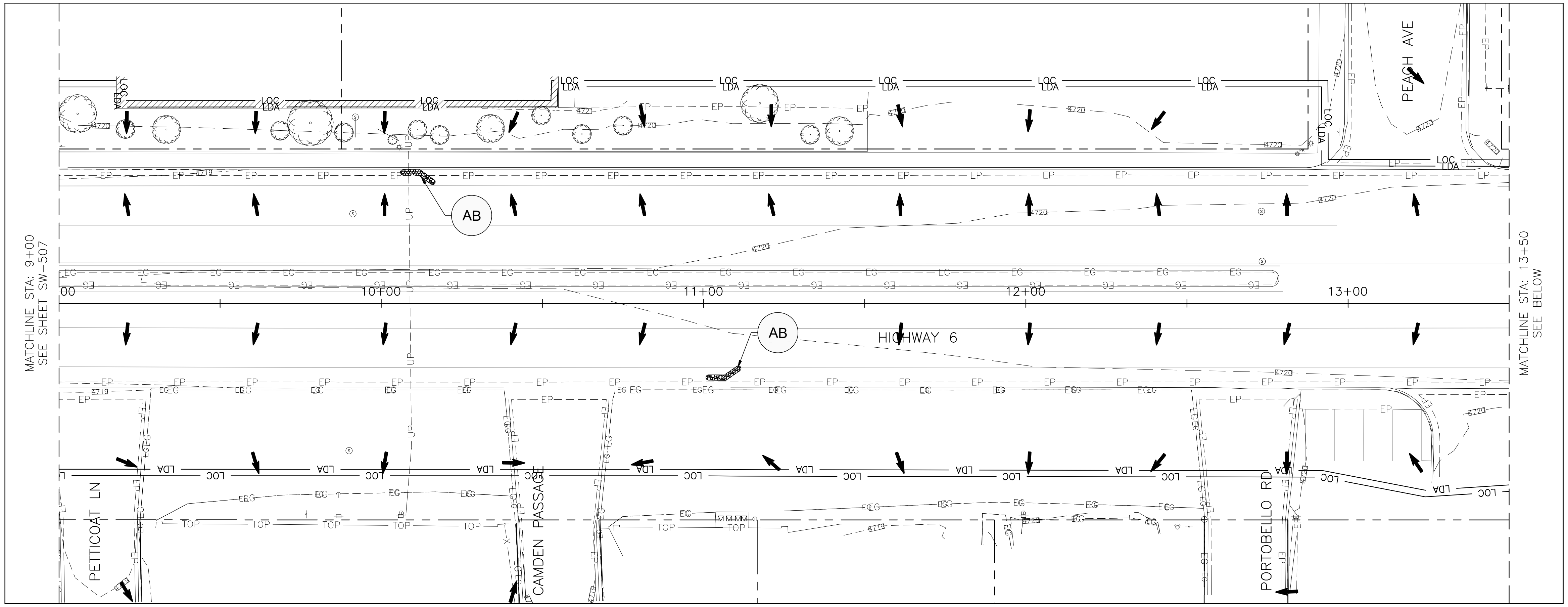

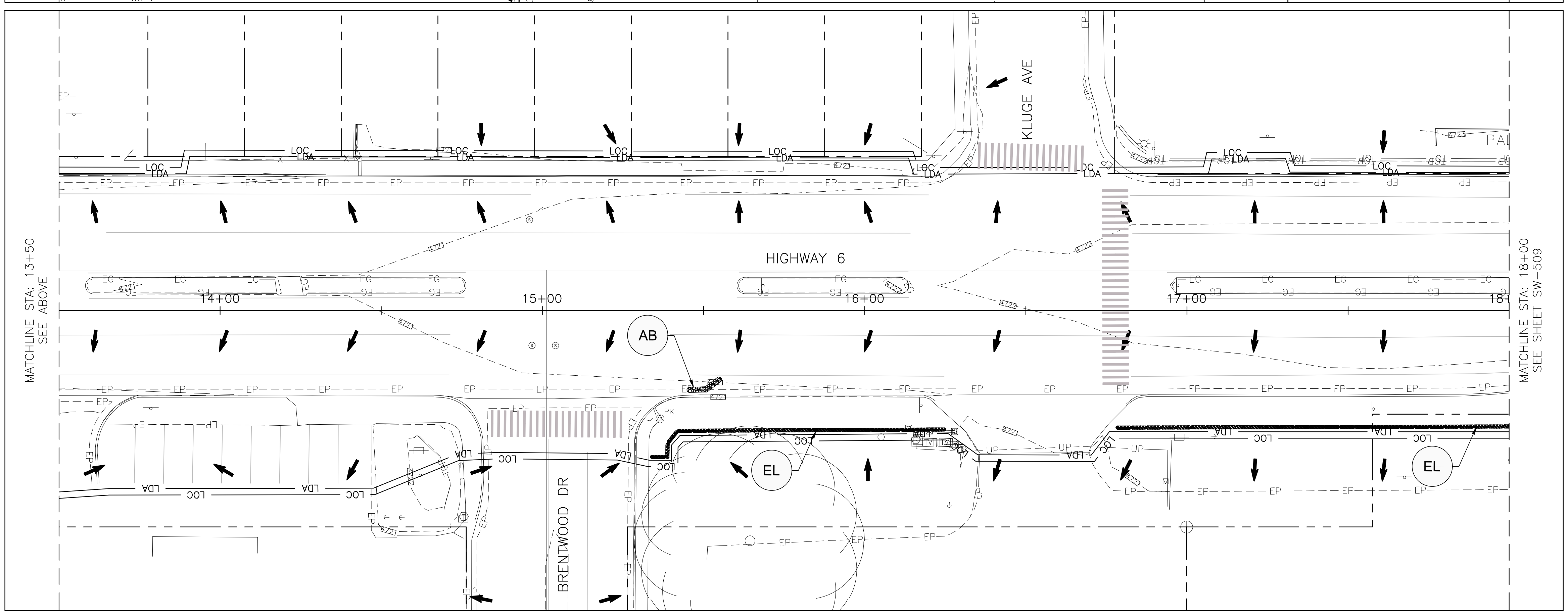

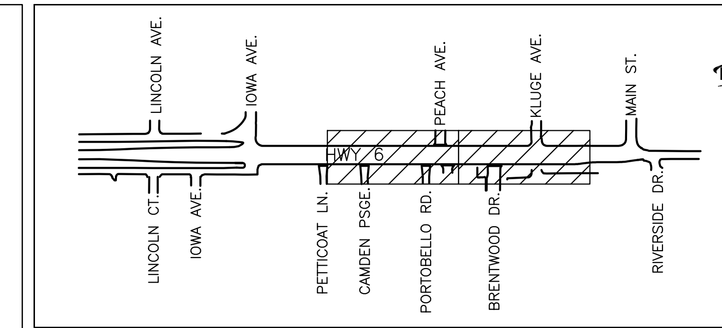

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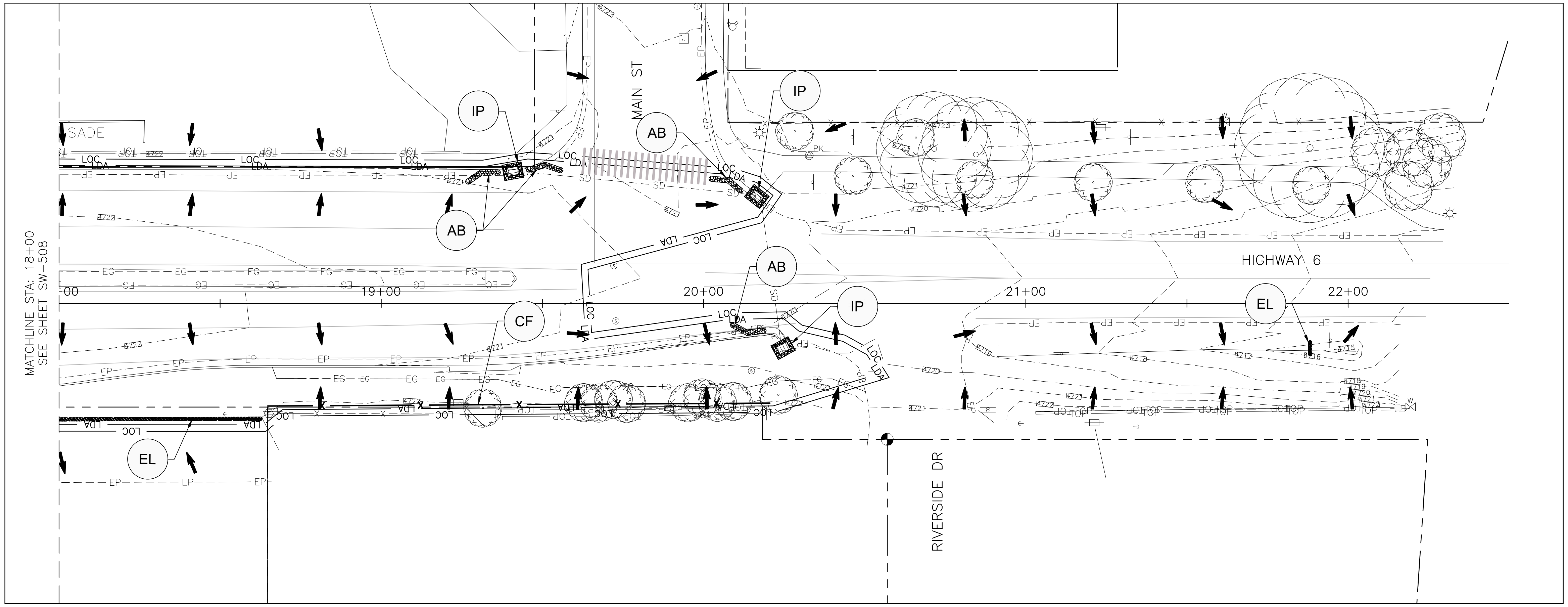

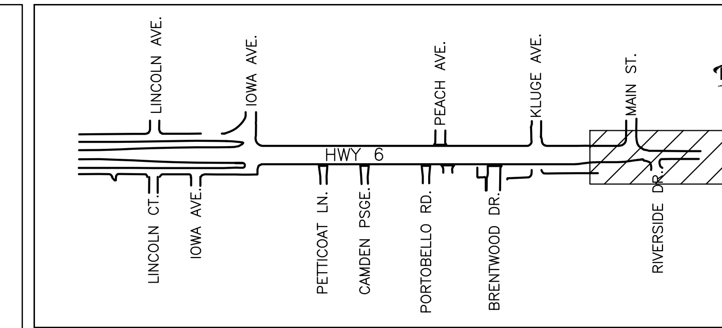

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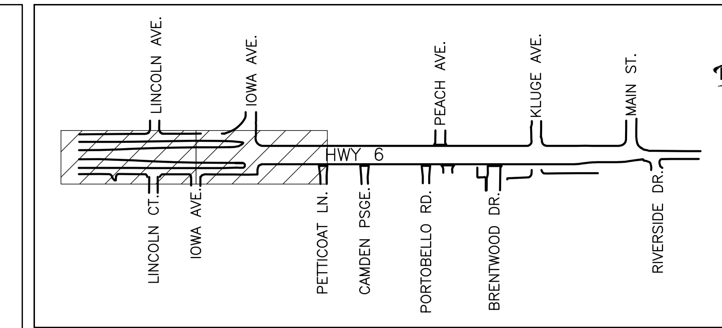

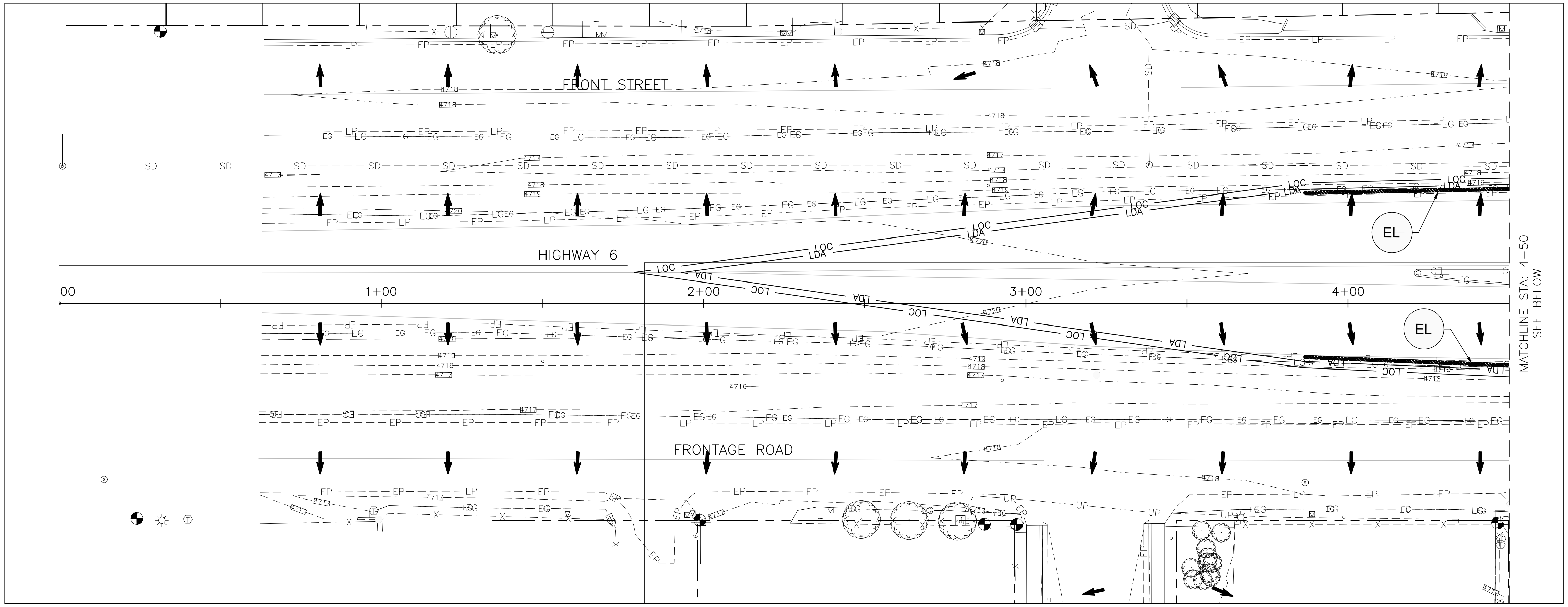

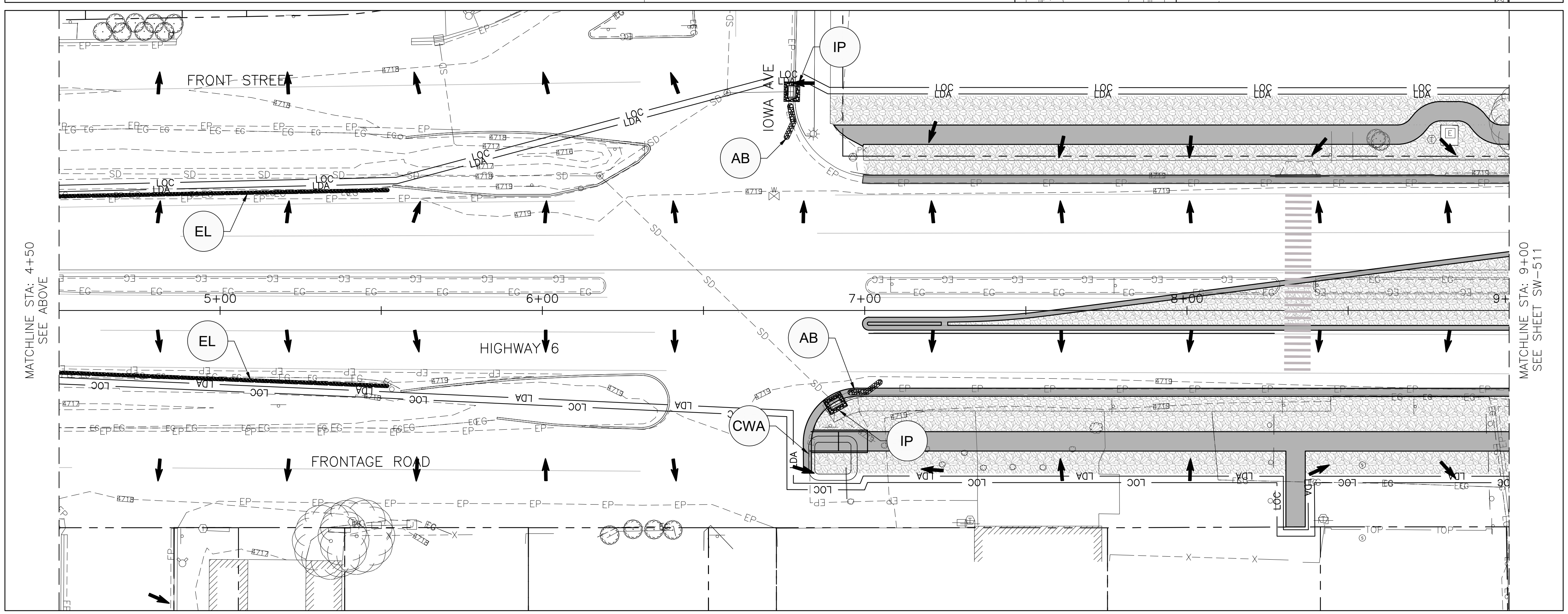

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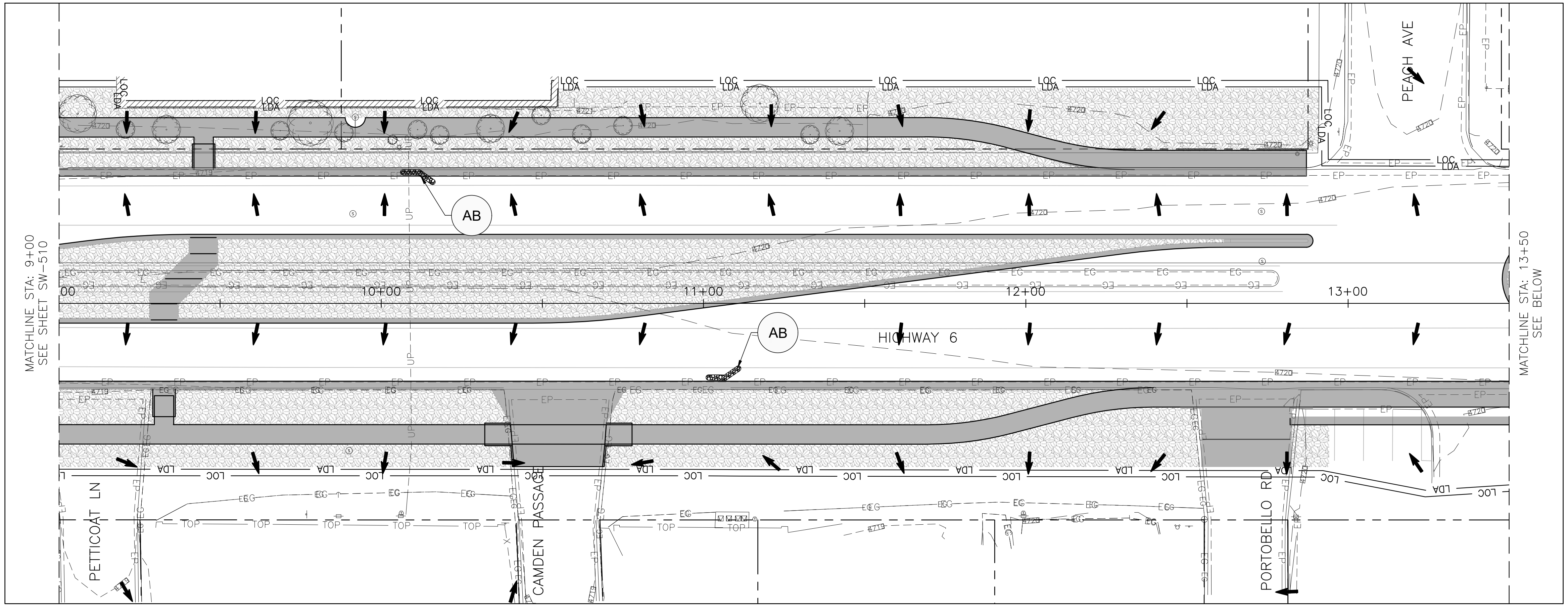

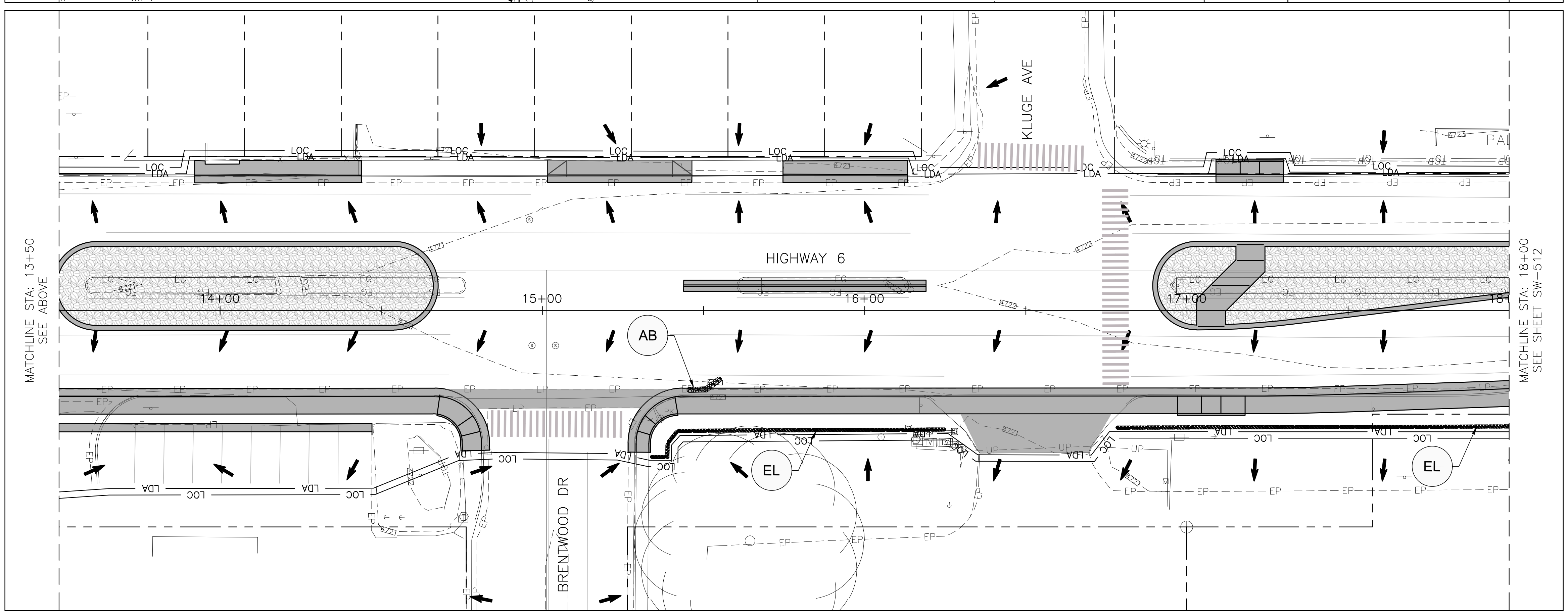

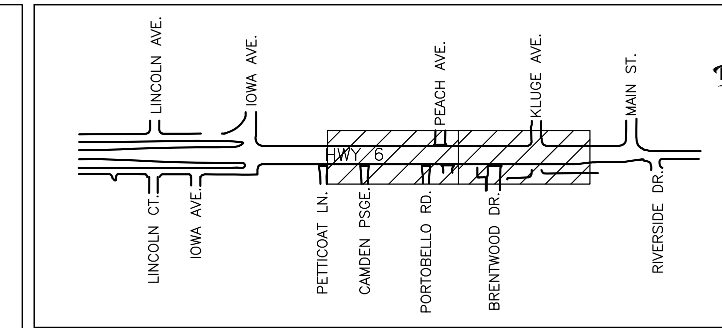

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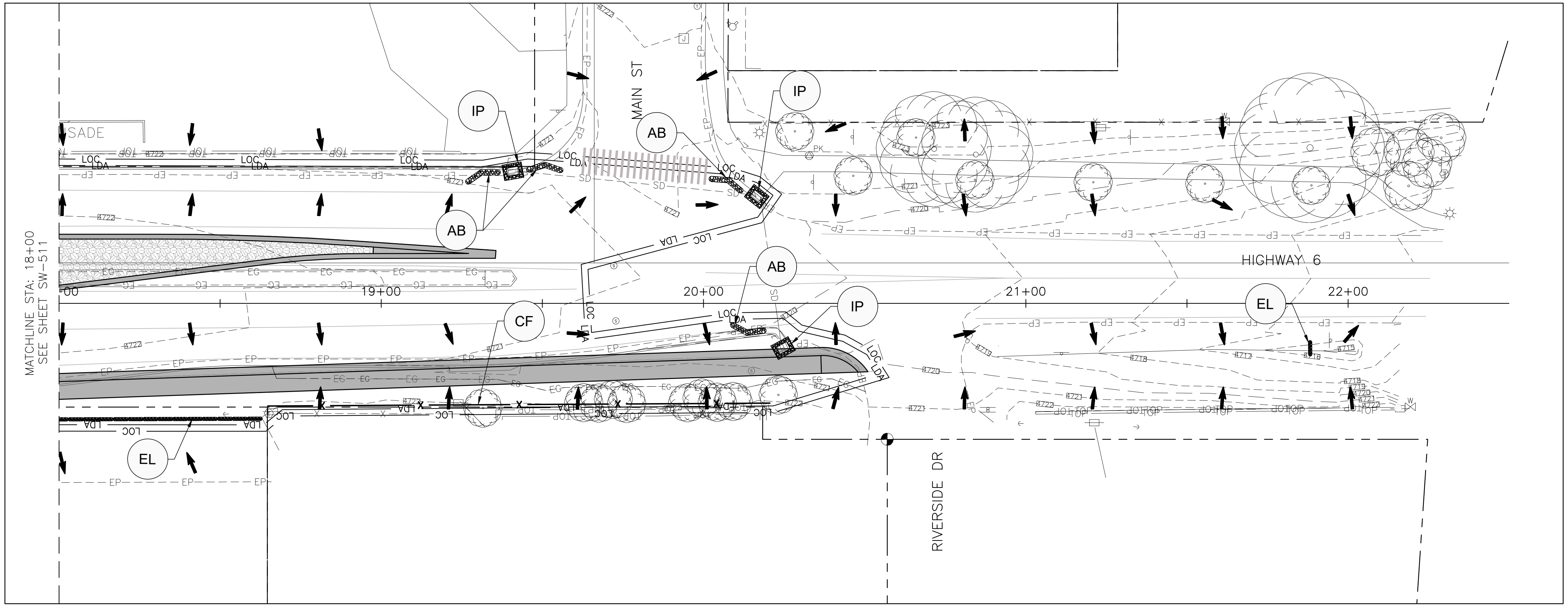

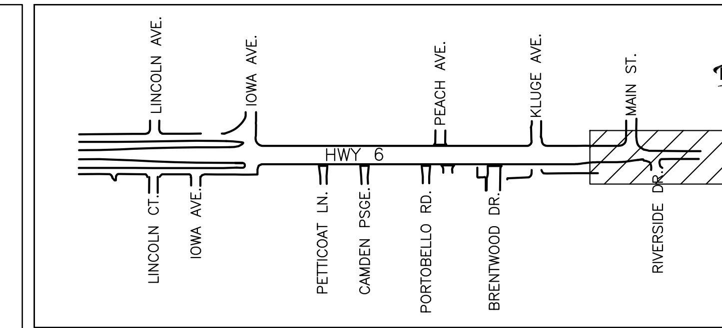

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NOTES:

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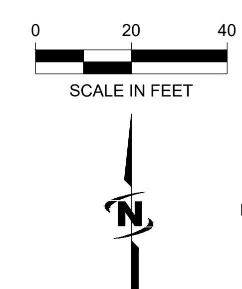

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Date Created: 10/11/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_SW-50X.DWG

Print Date: 11/8/2021	Sheet Revisions	
Scale: 1"=40'	Date:	Comments

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Palisade, CO 81526
Phone: (970) 208-8508

TOWN OF PALISADE COLORADO
175 East Third Street
Palisade, CO 81526
Phone: (970) 464-1116

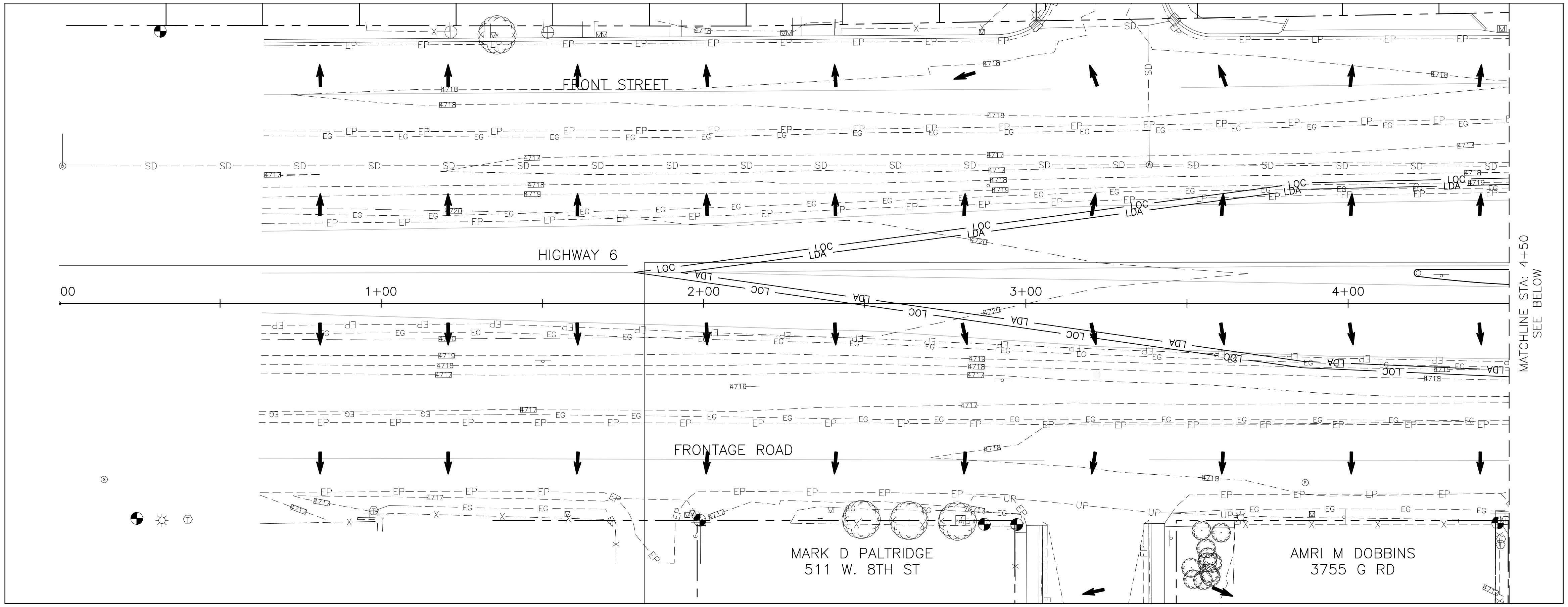
COLORADO Department of Transportation

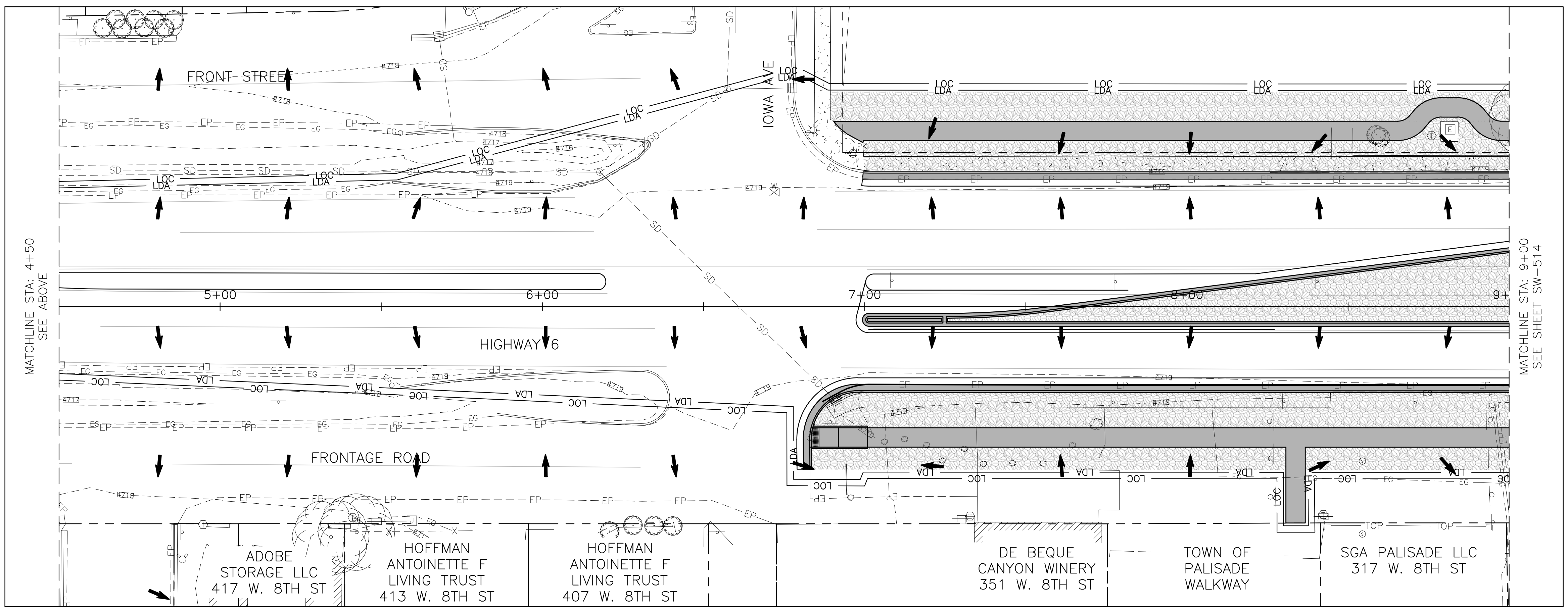
Ad Set
No Revisions:
Revised:
Void:

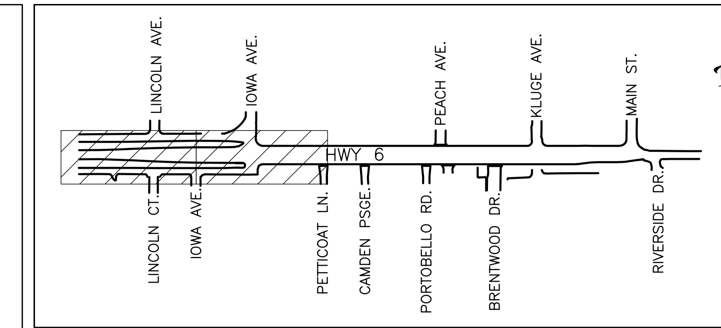
HIGHWAY 6 MMOF
SWMP – INTERIM

Designer: EWS	Structure Numbers		
Detailer: MWF			
Sheet Subset: SW	Subset Sheets: 12 of 15		

Project No./Code
M021-004 / 23961
Drawing Number SW-512







LEGEND:

TITLE	KEY	SYMBOL
CONCRETE WASHOUT STRUCTURE (SEE NOTE 1)	CWA	
AGGREGATE BAGS	AB	
SILT FENCE	SF	SF
EROSION LOGS	EL	
SOIL RETENTION BLANKET	SRB	
STORM DRAIN INLET PROTECTION	IP	

TITLE	KEY	SYMBOL
CONSTRUCTION FENCE (PLASTIC)	CF	x
MULCHING	MU	MU
PERMANENT SEEDING (LAWN MIX, SEE DRAWING SW-501 FOR SEED MIX)	PS	
1½" ROCK MULCH (4" MIN. DEPTH) – GRAY OR TAN HUES; NO PEA GRAVEL	RO	
DRAINAGE FLOW PATTERN		

PROPOSED CONCRETE
PROPOSED LANDSCAPING

LIMITS OF CONSTRUCTION	LOC	PROPOSED MAJOR CONTOUR	4970
LIMITS OF DISTURBANCE	LDA	PROPOSED MINOR CONTOUR	4968
LIMITS OF CUT	CUT	EXISTING MAJOR CONTOUR	4970
LIMITS OF FILL	FILL	EXISTING MINOR CONTOUR	4968

NOTES:

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Sheet Revisions

Date:	Comments

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HIGHWAY 6 MMOF
SWMP – FINAL

Designer: EWS
Detailer: MWF
Sheet Subset: SW
Structure Numbers
Subset Sheets: 13 of 15

Project No./Code
M021-004 / 23961
Drawing Number SW-513
Sheet Number 52 of 84

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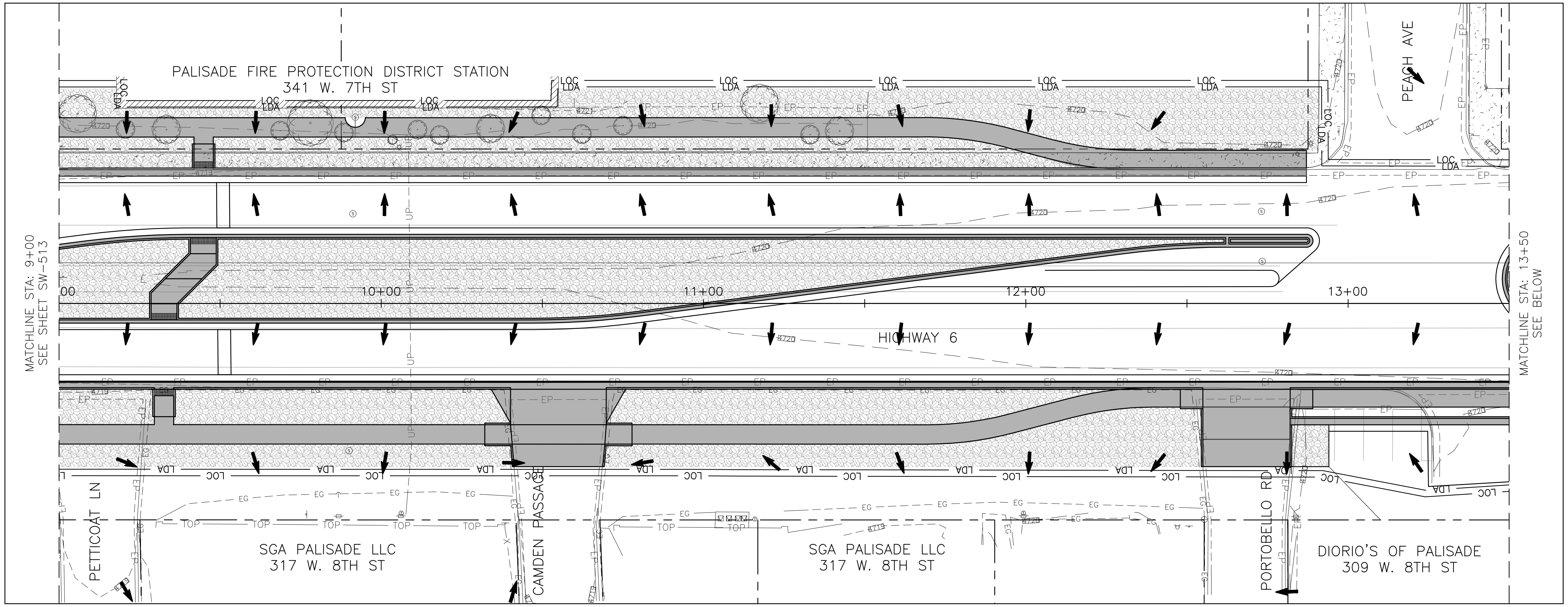

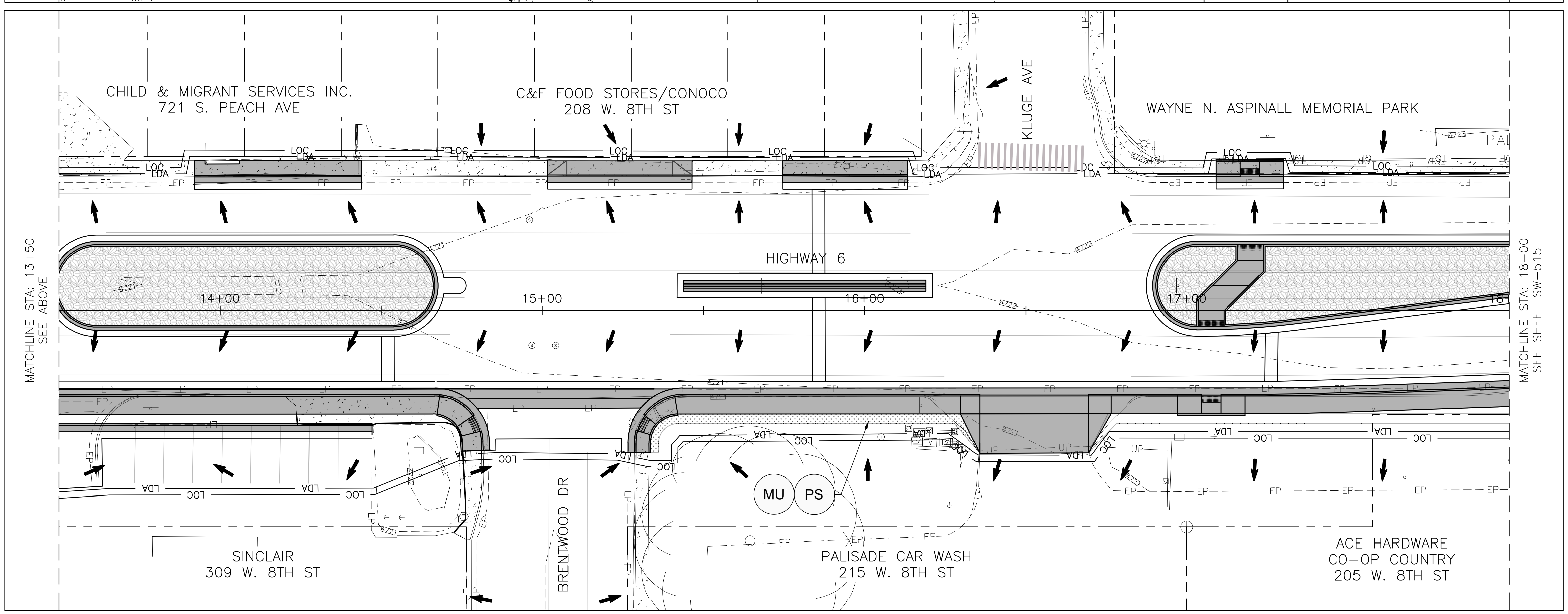

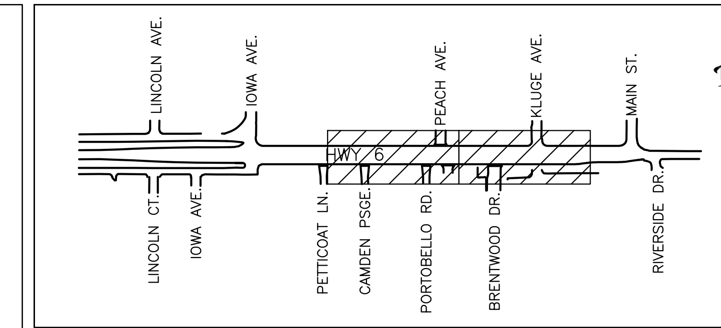

LEGEND:

TITLE	KEY	TITLE	KEY
CONCRETE WASHOUT STRUCTURE (SEE NOTE 1)	CWA	CONSTRUCTION FENCE (PLASTIC)	CF
AGGREGATE BAGS	AB	MULCHING	MU
SILT FENCE	SF	PERMANENT SEEDING (LAWN MIX, SEE DRAWING SW-501 FOR SEED MIX)	PS
EROSION LOGS	EL	1½" ROCK MULCH (4" MIN. DEPTH) – GRAY OR TAN HUES; NO PEA GRAVEL	RO
SOIL RETENTION BLANKET	SRB	DRAINAGE FLOW PATTERN	
STORM DRAIN INLET PROTECTION	IP		

PROPOSED CONCRETE
PROPOSED LANDSCAPING

LIMITS OF CONSTRUCTION	LOC	PROPOSED MAJOR CONTOUR	4970
LIMITS OF DISTURBANCE	LDA	PROPOSED MINOR CONTOUR	4968
LIMITS OF CUT	CUT	EXISTING MAJOR CONTOUR	4970
LIMITS OF FILL	FILL	EXISTING MINOR CONTOUR	4968

NOTES:

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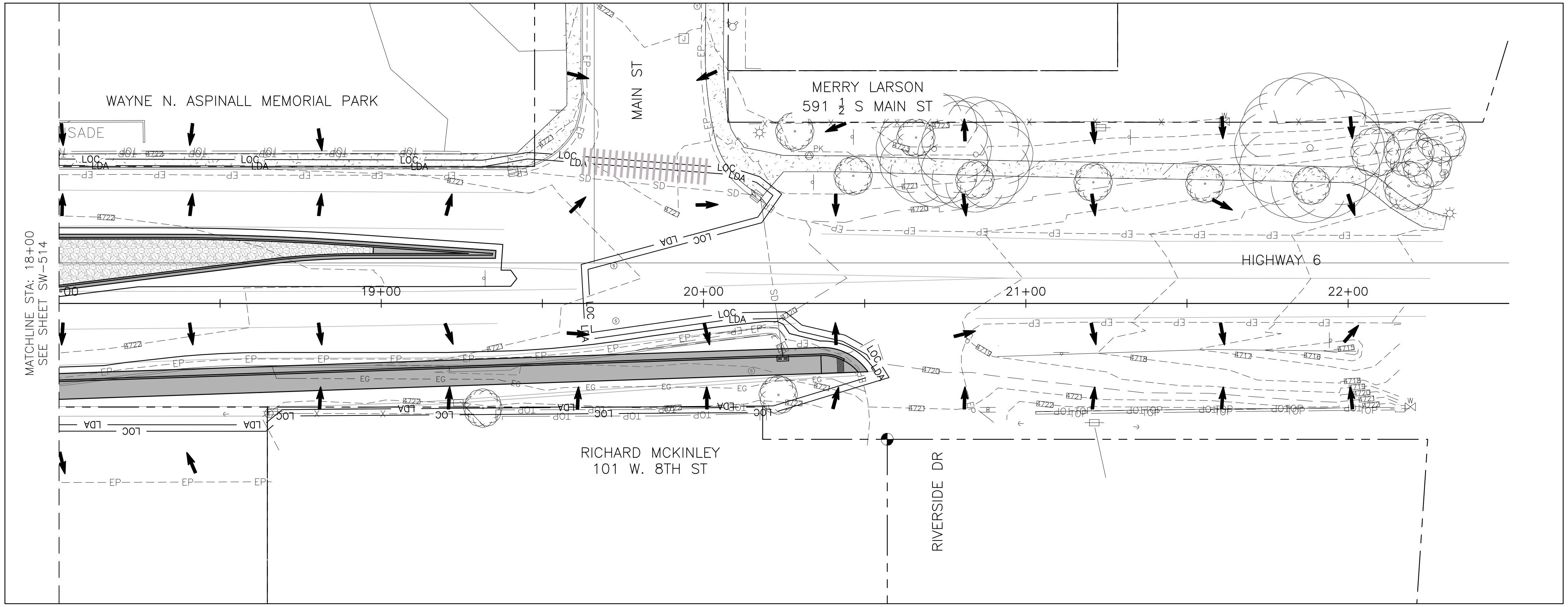
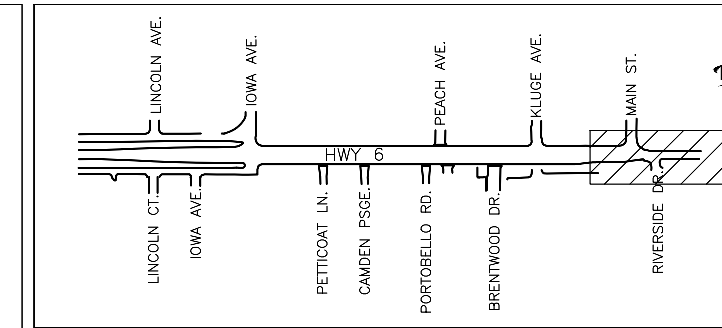
Revised:
Void:

HIGHWAY 6 MMOF
SWMP – FINAL

Designer: EWS
Detailer: MWF
Sheet Subset: SW
Structure Numbers
Subset Sheets: 14 of 15

Project No./Code
M021-004 / 23961
Drawing Number SW-514
Sheet Number 53 of 84





LEGEND:

TITLE	KEY	SYMBOL	TITLE	KEY	SYMBOL
CONCRETE WASHOUT STRUCTURE (SEE NOTE 1)	CWA		CONSTRUCTION FENCE (PLASTIC)	CF	x
AGGREGATE BAGS	AB		MULCHING	MU	MU
SILT FENCE	SF	SF	PERMANENT SEEDING (LAWN MIX, SEE DRAWING SW-501 FOR SEED MIX)	PS	
EROSION LOGS	EL		1½" ROCK MULCH (4" MIN. DEPTH) – GRAY OR TAN HUES; NO PEA GRAVEL	RO	
SOIL RETENTION BLANKET	SRB		DRAINAGE FLOW PATTERN		
STORM DRAIN INLET PROTECTION	IP				

PROPOSED CONCRETE

PROPOSED LANDSCAPING

LIMITS OF CONSTRUCTION	LOC	PROPOSED MAJOR CONTOUR	4970
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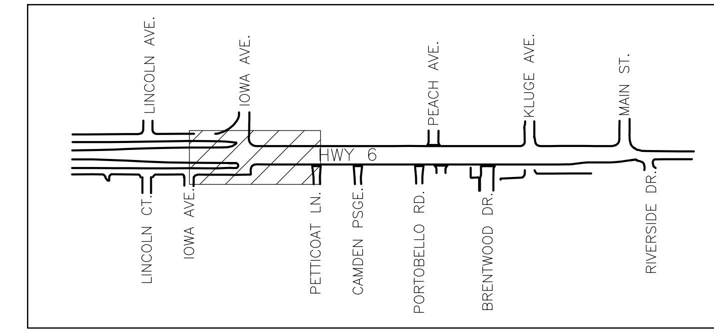
HIGHWAY 6 MMOF
SWMP – FINAL

Designer: EWS
Detailer: MWF
Sheet Subset: SW
Structure Numbers
Subset Sheets: 15 of 15

Project No./Code
M021-004 / 23961
Drawing Number SW-515



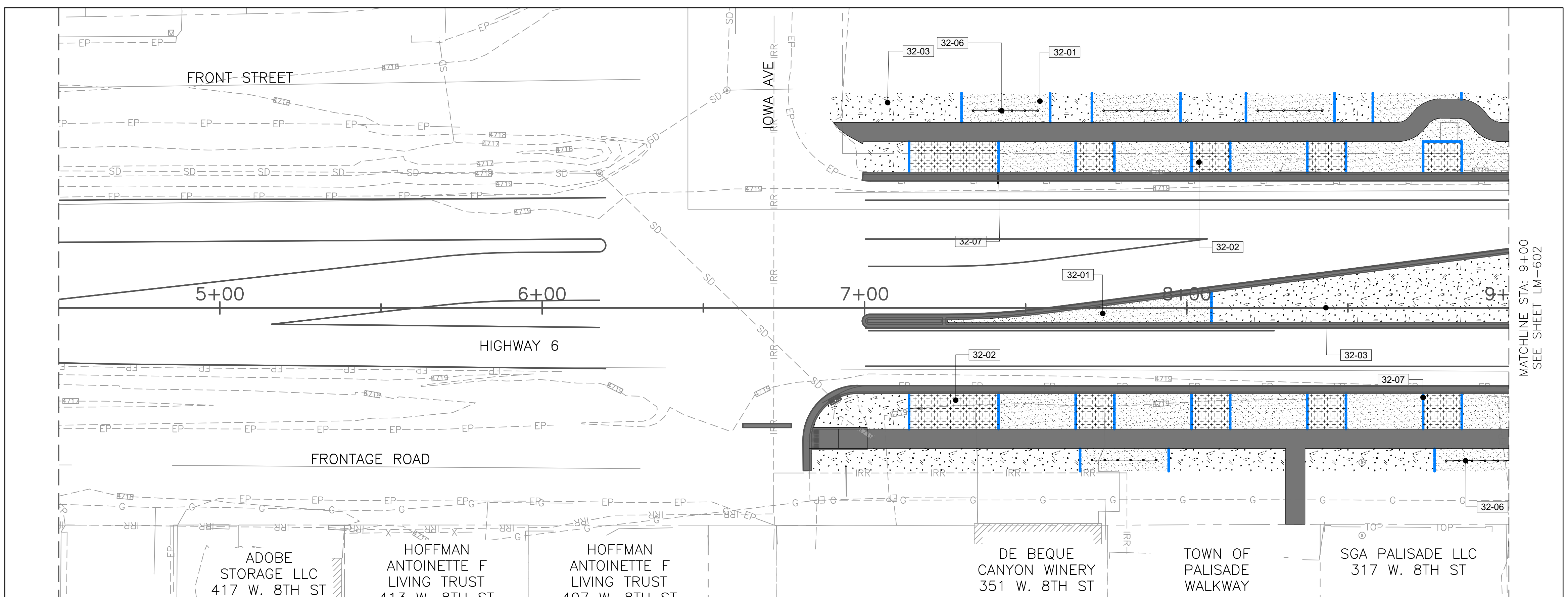
REFERENCE NOTES SCHEDULE

32 EXTERIOR IMPROVEMENTS

SYMBOL	CODE	DESCRIPTION	DETAIL
	32-01	$\frac{3}{8}$" Decomposed Granite Surface	2/LM-501
	32-02	Nutrimulch Surface	SEE SPECS
	32-03	Shredded Bark Mulch Surface	SEE SPECS
	32-06	Vineyard Trellis	3/LM-501
	32-07	Steel Edge Restraint	1/LM-501

32 EXTERIOR IMPROVEMENT TABULATIONS

CODE	DESCRIPTION	QUANTITY
32-01	$\frac{3}{8}$" Decomposed Granite Surface	14,575 SF
32-02	Nutrimulch Surface	5,107 SF
32-03	Shredded Bark Mulch Surface	8,785 SF
32-06	Vineyard Trellis	400 LF
32-07	Steel Edge Restraint	950 LF



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HIGHWAY 6 MMOF
SITE MATERIALS PLAN

Designer: SB
Detailer: SB
Sheet Subset: LM
Structure Numbers
Subset Sheets: 1 of 4

Project No./Code
M021-004 / 23961
Drawing Number LM-601
Sheet Number 55 of 84

Plot Date: 11/8/2021 2:10 PM Plotted By: Matthew Fila
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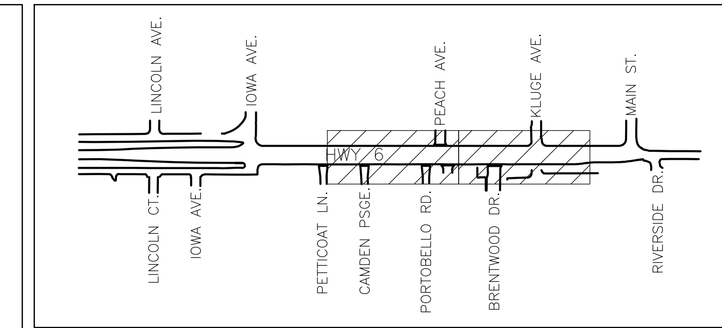

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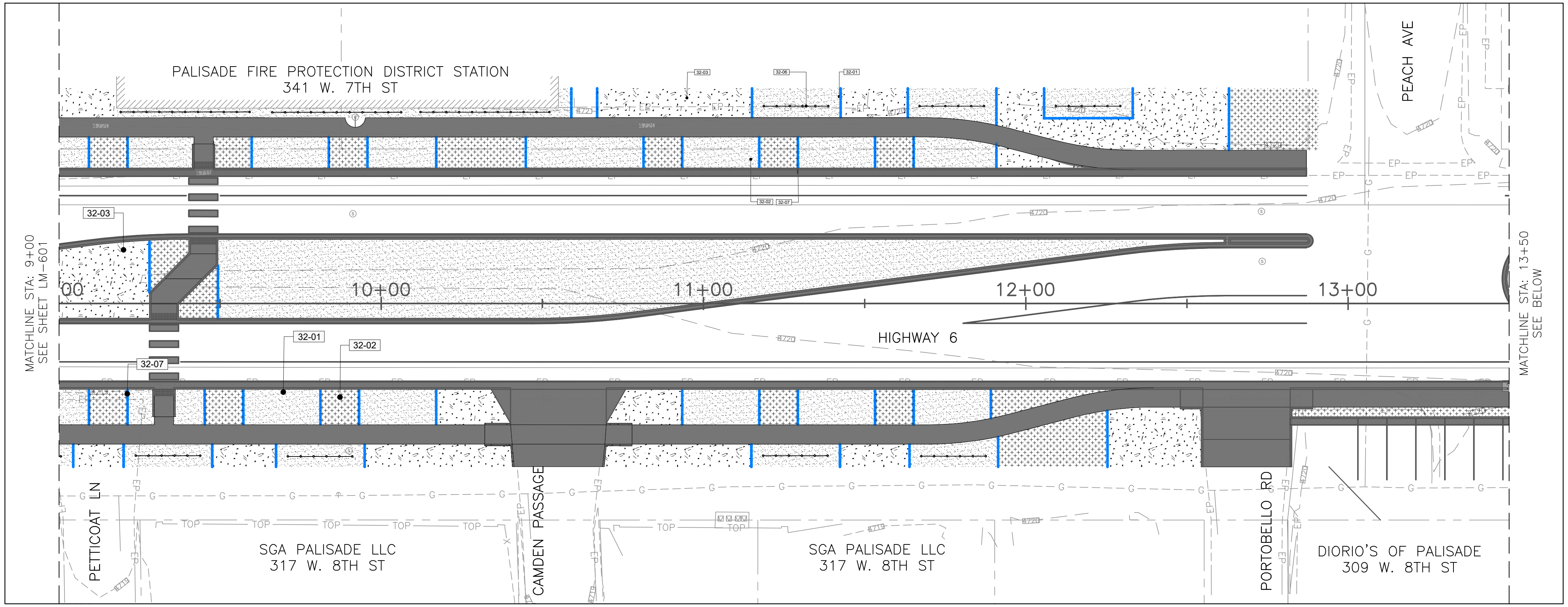
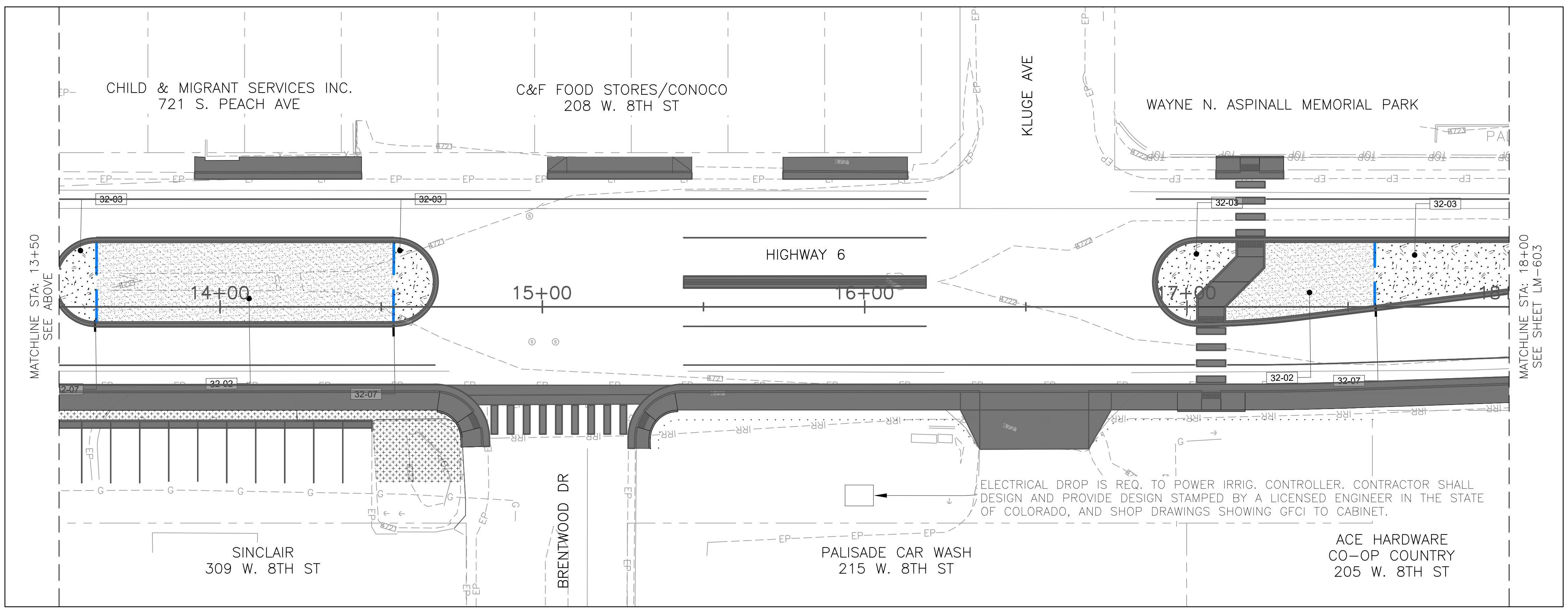
	32-07	Steel Edge Restraint	1/LM-501





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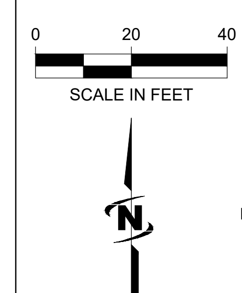

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Print Date: 11/8/2021	Sheet Revisions		Ad Set
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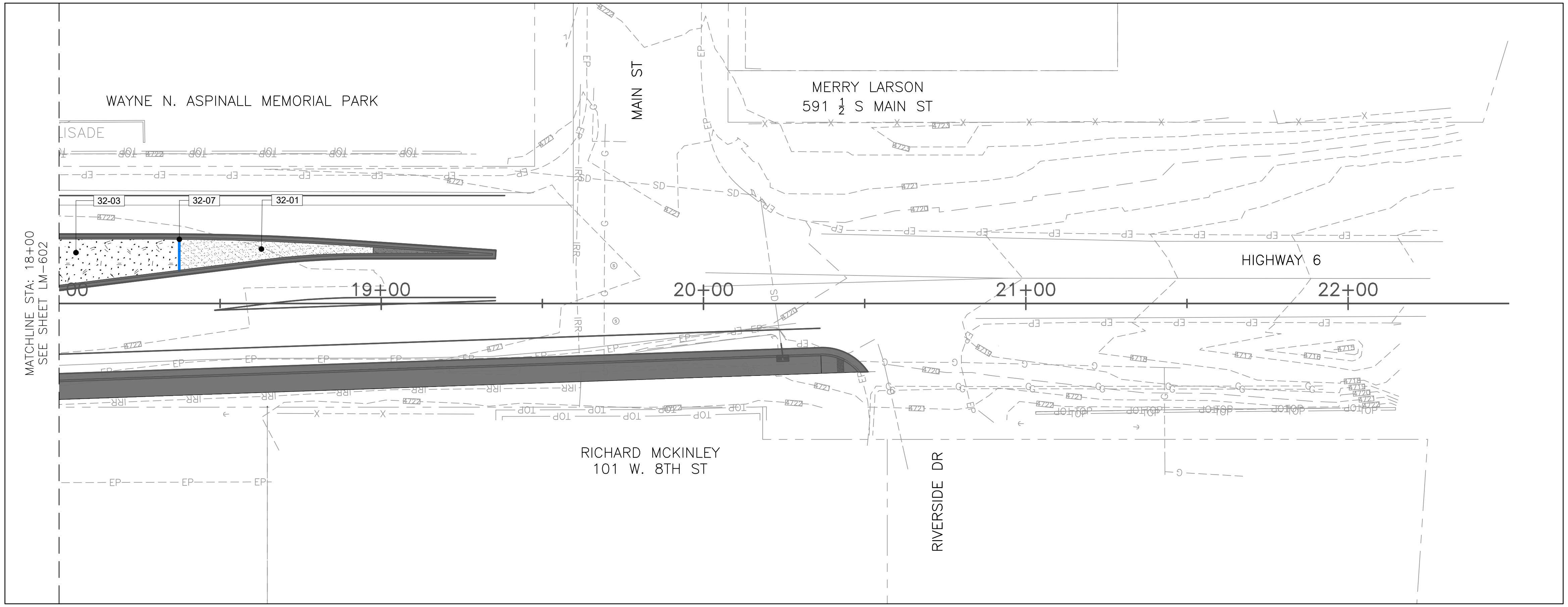
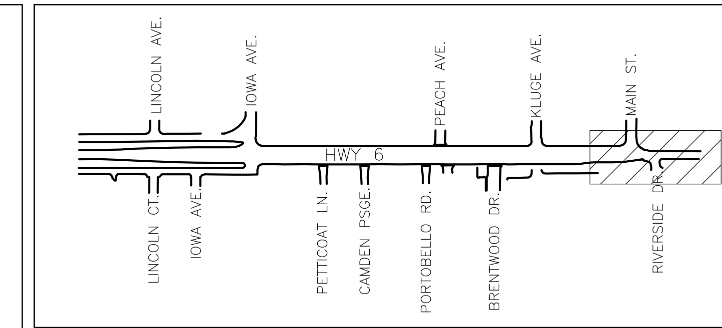
Town of Palisade Colorado, 175 East Third Street, Palisade, CO 81526, Phone: (970) 464-1116	COLORADO Department of Transportation		Void:

HIGHWAY 6 MMOF
SITE MATERIALS PLAN

Designer: SB
Detailer: SB
Sheet Subset: LM
Structure Numbers
Subset Sheets: 2 of 4

Project No./Code
M021-004 / 23961
Drawing Number LM-602
Sheet Number 56 of 84





REFERENCE NOTES SCHEDULE

SYMBOL	CODE	32 EXTERIOR IMPROVEMENTS DESCRIPTION	DETAIL
	32-01	⅜" Decomposed Granite Surface	2/LM-501
	32-02	Nutrimulch Surface	SEE SPECS
	32-03	Shreded Bark Mulch Surface	SEE SPECS
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	32-07	Steel Edge Restraint	1/LM-501

32 EXTERIOR IMPROVEMENT TABULATIONS

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Date Created:10/12/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_LM-10X.DWG

Print Date: 11/8/2021
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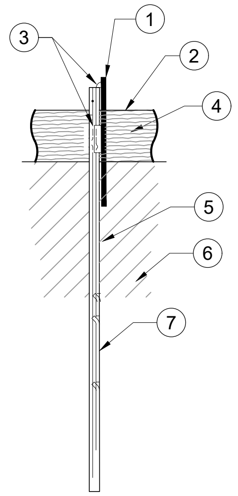
HIGHWAY 6 MMOF
SITE MATERIALS PLAN

Designer: SB
Detailer: SB
Sheet Subset: LM
Structure Numbers
Subset Sheets: 3 of 4

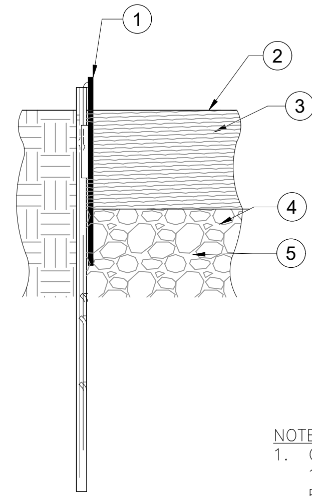
Project No./Code
M021-004 / 23961
Drawing Number LM-603
Sheet Number 57 of 84



1. 6" DEEP $\frac{1}{8}$" STEEL BAR
2. FINISH GRADE OF MULCH 2" BELOW TOP OF EDGING
3. TACK WELD REBAR STAKE TO TOP OF BAR FOR ROUGH-IN WELD REBAR TO BAR FOR 1"
4. MULCH – SEE PLANT MATERIAL SCHEDULE FOR TYPE AND SIZE
5. COMPACT GRADES ADJACENT TO EDGING TO AVOID SETTLING
6. TOPSOIL – SEE NOTES AND SPECIFICATIONS FOR TYPE AND DEPTH
7. 18" #4 REBAR @ 3' O.C. (TYP.)

1 STEEL EDGE RESTRAINT

NTS

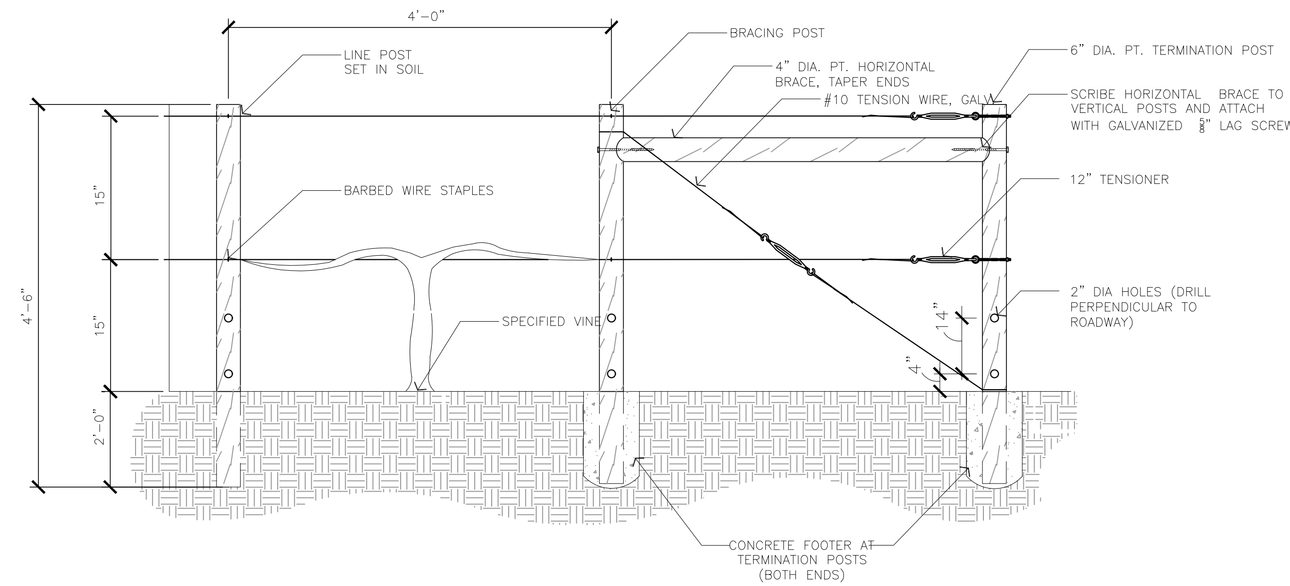


1. EDGE RESTRAINT, SEE DETAIL
2. FINISH GRADE TO BE 2" BELOW TOP OF EDGING
3. MULCH – 3" DEPTH OF CRUSHED STONE
4. BASE – 3" DEPTH OF COMPACTED TYPE 6 ROAD BASE
5. COMPACT GRADES ADJACENT TO EDGING TO AVOID SETTLING

NOTES:
1. CRUSHED STONE SURFACE TO BE 1/4" MINUS ROSY QUARTZ OR EQUAL FROM ROCK SHOP G.J. COLORADO

2 CRUSHED STONE SURFACE

NTS



3 VINEYARD TRELLIS (POST & DOWEL FENCE)

1/2" = 1'-0"

DETAIL–FILE

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Print Date: 11/8/2021	Sheet Revisions	Ad Set	HIGHWAY 6 MMOF LANDSCAPE DETAILS
Scale: N.T.S.	Date: / Comments	No Revisions:	Project No./Code: M021-004 / 23961
J-U-B ENGINEERS, INC. 305 South Main Street #6 Palisade, CO 81526 Phone: (970) 208-8508		Revised:	Designer: SB
Town of Palisade Colorado, 175 East Third Street Palisade, CO 81526 Phone: (970) 464-1116		Void:	Detailer: TS
COLORADO Department of Transportation			Sheet Subset: LM
			Structure Numbers
			Subset Sheets: 4 of 4
			Drawing Number LM-604
			Sheet Number 58 of 84

IRRIGATION NOTES

1. The Contractor shall be familiar with the irrigation technical specifications for this project. Failure to do so shall not relieve him of meeting all of the requirements contained therein.

2. The irrigation plan is diagrammatic in nature, and some drafting liberties have been taken to maintain the graphic clarity of the drawings. All irrigation equipment shall be located in planting areas only, unless noted otherwise. The Contractor shall install piping to minimize changes in direction, avoid placement under large trees or large shrubs, and avoid placement under hardscape features. Refer to the irrigation equipment schedule, installation details, and specifications for equipment and its proper installation.

3. The Contractor shall use only the equipment and products specified in the construction drawings. No substitution of materials will be allowed on the irrigation system without prior authorization from the Landscape Architect and the Owner.

4. The Contractor shall visit and inspect the project site. He shall take into consideration known and reasonably inferable conditions affecting the proposed work. Failure to visit the site shall not relieve the Contractor of furnishing materials and performing the work required. Any discrepancies between existing site conditions and those indicated on the plans shall be called to the attention of the Landscape Architect prior to continuance of the project.

5. If the water point of connection is located other than as shown on the drawings, or if the water pressure is different than indicated on the plans, or appears to be unusually high or low, the Contractor shall immediately notify the Landscape Architect prior to proceeding with any irrigation work.

6. The Contractor shall keep the premises clean and free of excess equipment, materials, and rubbish incidental to work of this project. Work areas shall be swept clean and trash and debris picked up daily. Open trenches or hazards shall be protected with yellow caution tape. The Contractor is responsible for removal and legal disposal (offsite) of trash and debris generated by his work on this project.

7. Pipe fittings shall conform to the following standards unless otherwise noted:
   A. All main line fittings four (4) inches or larger shall be push-on, gasketed, and constructed of ductile iron material.
   B. All main line fittings three (3) inches and smaller shall be solvent weld Schedule 80 PVC.
   C. M.J. tees, Schedule 80 tees with SxT Schedule 80 bushings, or Harco ductile iron service tees are approved on PVC main lines for automatic control valve installation. M.J. fittings shall be greased and wrapped.
   D. All lateral line fittings shall be solvent weld Schedule 40 PVC.
   E. All risers and exposed fittings shall be solvent weld Schedule 80 PVC, including conversions to metal pipe and fixtures, unless otherwise noted on the plans.
   F. All main line fittings four (4) inches and larger, whether ductile iron or solvent weld, shall be thrust blocked.

8. Backflow prevention devices shall be a reduced pressure principle backflow preventer consisting of a pressure differential relief valve located between two independently operated spring-loaded "Y" type center guided check valves. Assembly shall also have two full port resilient seated ball valves for shut-off and four resilient seated ball valve test cocks and bronze body construction. Larger sizes (2 ½" and up) may have two non-rising stem resilient wedge gate valves in lieu of ball valves. Backflow preventer shall be as specified in the Irrigation Equipment Schedule.

9. Irrigation wire shall conform to the following:
   A. All irrigation control wire (hereafter referred to as 2-wire) from the controller to the field devices must be Polyethylene double-jacketed or UF-B UL PVC double-jacketed two-conductor solid core designed for direct burial systems. The following is recommended:
      i. All 2-wire shall be soft drawn, annealed, solid copper conforming to ASTM 33. Conductor insulation must be 4/64-inch thick PVC, conforming to UL Standard #493 for thermoplastic-insulated style UF (Underground Feeder), rated at 60 degrees C.
      ii. The two insulated conductors are laid in parallel and encased in a single outer jacket of 3/64-inch thick, high density, sunlight resistant polyethylene conforming to ICEA S-61-402 and NEMA WC5, having a minimum wall thickness of 0.045-inch.
      iii. The two conductors must be color-coded: normally one conductor red and one black. Both conductors shall be the same size: 14 AWG.
   B. All wire crossing water, attached to bridges, going under paving, or where conditions require protection, shall be housed in conduit or sleeves. All out-of-ground conduits shall be rigid metal. All buried conduit may be PVC. In areas where rodents are a known issue, all wire shall be placed in a conduit.
   C. All splices shall be water-tight. All connections made inside the box to connect the 2-wire to the valve shall be made using a dry-splice connector DBR/Y. Each connector shall be completely sealed and water-proof.
   D. All other splices in 2-wire wire shall be housed in a separate round valve box and use DBR/Y connectors.
   E. Lightning arrestors and eight (8) foot long by 5/8-inch diameter copper ground rods shall be used as recommended by the controller manufacturer, and be installed per manufacturer recommendations and installation details of this project. Attach bare copper wire to ground rods using Cadweld™ type connection and install in eight (8) inch round valve box.
   F. No aluminum wire shall be used on this project.

10. Run a single fourteen (14) gauge wire along the top of the main line to be used for tracking the location of the main line. Every twenty (20) feet there shall be a twenty four (24) inch loop. The color of the tracing wire shall be different than any other wire color used.

11. All pipe shall be installed by trench method, trenchess installation will not be allowed. When not under roadway pavement, all pressure main lines shall have between twenty (12) and thirty (20) inches of cover, while all lateral lines shall have between twelve (12) and fourteen (14) inches of cover. When placed under roadway pavement, all lines shall have a minimum of (48) inches of cover. Trench bedding and backfill material shall consist of existing site soil free of rocks larger than one (1) inch in diameter and any other debris. Wasted pipe and other excess project materials or rubbish (tape, wire, trash, wrappers, boxes, plastic or glass bottles, etc.) shall not be backfilled into the trenches. All trenches shall be backfilled, and then watered sufficiently to insure no settling of the surface. In the event of any backfill settlement prior to the end of the guarantee period, the Contractor shall perform all required repairs at his own expense.

12. Check valves shall be used where indicated and where necessary to prevent water flow from lower elevation heads when the irrigation system is turned off.

13. All control valves shall be located within shrub areas where possible and installed per the details shown on the plans. Each control valve shall have its own separate shut-off valve, and only one (1) control valve and gate valve per valve box. No valve manifolds shall be allowed. The bottom of the remote control valve shall be a minimum of four (4) inches above the gravel. Isolation gate valves on the main line shall be located in separate valve boxes.

14. All main lines and lateral lines shall be sleeved where they pass under any paved areas. The size of the sleeve shall be twice the size of the pipe being sleeved, unless otherwise specified on the drawings.

15. The automatic controller shall be of the type and manufacturer specified, and located as shown on the plans. The Contractor shall be responsible for providing 120 volt electrical service to the controller. Coordinate this work with other trades on this project.

16. Prior to backfilling any trenches or irrigation lines:
   A. All main lines shall be capped and pressure tested at 120 psi for a period of 4 hours. Any leaks found shall be corrected by removing the leaking pipe or fittings and installing new material in its place. Repeat the pressure test to insure the absence of leaks.
   B. The Contractor shall not allow nor cause any of his work to be covered until it has been inspected, tested, and approved by the Landscape Architect.
   C. Where a main line has been allowed to sit in the trench uncovered for any length of time prior to testing, the line may be shaded with a thin layer of soil to minimize weather related expansion or contraction of the pipe.

17. The Contractor shall adjust all irrigation heads to provide an even coverage and to keep spray off of buildings, walkways, and paved surfaces.

18. When the sprinkler system has been completed, the Contractor shall, in the presence of the Landscape Architec or Owner's Representativet, conduct a coverage test of the water afforded to the planting areas to insure that it is consistent and uniform. The Contractor shall provide, at his own expense, all materials and labor necessary to correct any deficiencies or inadequacies discovered during the coverage test.

19. The Contractor shall keep on site a current and accurate as-built record of his work. It shall include exact dimensioned locations, grades, elevations, and the size of all exterior and interior underground piping, valves, and drains. Dimensions shall indicate distances from columns, buildings, curbs, and similar permanent features on the site. This information shall be recorded on a print as the work progresses, but shall be permanently recorded on a reproducible, two (2) mil Mylar or Tyvek original which shall be given to the Owner before the project is accepted.

20. The irrigation contractor shall maintain the system for the duration of the contract period, including the maintenance period.

21. Upon final acceptance of the sprinkler irrigation system as being operational and properly installed, the Contractor shall guarantee the workmanship, materials, fixtures, and equipment to be free from defects for a period of one (1) year after that date.

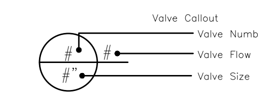
22. Inline Drippers
   A. Inline drip tubing shall be spaced approximately equal to the inline emitter spacing. For slope applications, place drip tubing laterals parallel to the slope contour. When slopes exceed thirty (30) percent, increase the recommended lateral spacing by twenty five (25) percent on the lower one third (1/3) of the slope.
   B. Weed barrier fabric shall be installed directly on top of finished grade soil, with Inline dripper tubing on top of fabric. Inline dripper tubing shall be secured with soil staples and covered with three (3) inches of specified mulch. Supply and exhaust headers shall be installed at normal lateral line depths.
   C. All drip tubing shall be held in place by soil staples and shall conform to the following:
      i. Sandy Soil – One staple per every three (3) feet and two (2) staples on each change of direction (tee, elbow, or cross)
      ii. Loam Soil – One staple every four (4) feet and two (2) staples on each change of direction (tee, elbow, or cross)
      iii. Clay Soil – One staple every five (5) feet and two (2) staples on each change of direction (tee, elbow, or cross)
   D. Installation of inline drip circuits shall generally conform to the following steps:
      i. Assemble and install ball valve, filter, remote control valve, and inline pressure regulator assembly in accordance with installation details.
      ii. Assemble and install supply header(s) in accordance with installation details. Tape or plug all open connections to prevent debris contamination.
      iii. Install lateral drip lines in accordance with details and relevant specifications and manufacturer's recommendations. Tape or plug all open ends while installing to prevent debris contamination.
      iv. Assemble and install exhaust header(s) in accordance with installation details. Tape or plug all open connections to prevent debris contamination.
      v. Install air/vacuum relief valve(s) at the zone's highest point(s) in accordance with installation details.
      vi. Thoroughly flush supply header(s) and connect drip lateral lines while flushing.
      vii. Thoroughly flush drip lateral lines and connect to exhaust header(s) and any interconnecting lateral lines while flushing.
      viii. Thoroughly flush exhaust header(s) and install line flushing valves in accordance with details.

IRRIGATION SCHEDULE LI-BASE-BID

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Drip Control Zone Kit - 1" Hunter ICZ-101-40. 1" ICV Globe Valve with 1" HY100 filter system. Pressure Regulation: 40psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen.
	Manual Drip Line Drain Valve PVC Ball Valve Nibco 4660T TXT 1/2 (Drain Valves placed at low point of a zone as needed)
	Manual Drip Line Drain Valve PVC Ball Valve Netafim Model TLSOV 1/2 (Drain Valves plumbed to drip line and placed at low point of a zone as needed)
	Area to Receive Dripline Drip Line Assembly Netafim TLHCVXR-CS-053-12 Pressure Compensating Landscape Dripline with Copper Stripe, Check Valve and Anti-Siphon feature. 0.53 GPH emitters at 12" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Quick Coupling Valve Assembly Leemco L2 Quick Coupling Valve, Key and Swivel. L2QCV-FPT-Y furnish with L2QCV-KEY and L2QCV-SWIVEL-007.
	Isolation Gate Valve Assembly (line size) Leemco LMV-BB, gate shut off valve with square opperating nut, same size as mainline pipe diameter at valve location.
M	Master Valve Assembly 1-1/2" LHM15EM11AAFMEL. 1-1/2" Master Valve/Flow Sensor with Water Meter and Hydraulic Valve in a Single Unit. Cast Iron with Baked Powder-Coated Finish, Minimum Working Pressure 14 psi. Male Pipe Thread Connection, Digital (ER) Register.
D	Manual Drain Valve Assembly Apollo Bronze ball valve with weld top (78-621-01) 3/4" (Place as needed in low points on main line)
BF	Reduced Pressure Principle Assembly 1" Zurn 375. Furnish with RK1-375BOF Flush Fitting Tool. Reduced Pressure Principle Assembly. Size 1".
C	Pedestal Mount Controller Assembly Hunter PED-SS-A2C-75D-SS. 75-Station decoder controller in an outdoor stainless steel pedestal. Contractor shall coordinate location of power supply with Owner.

SYMBOL	DESCRIPTION
	Single Station Decoder Hunter ICD-100. Single Station Decoder w/Surge Suppression and Ground Wire
M	Water Meter 1"
POC	Point of Connection 1-1/2" Hot Tap 8" Culinary Water Line
	Irrigation Lateral Line: PVC Schedule 40
	Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: PVC Class 200 SDR 21



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Palisade, CO 81526
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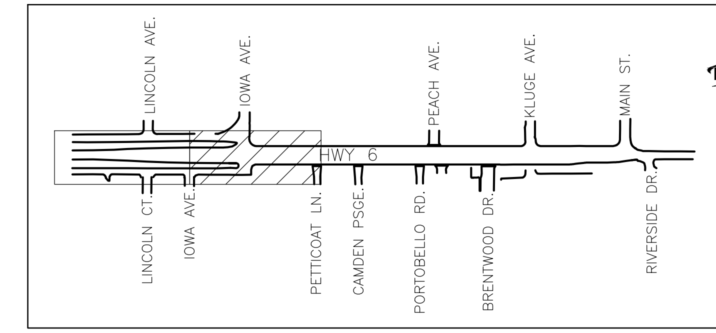
HIGHWAY 6 MMOF
IRRIGATION NOTES

Designer: SB
Detailer: TS
Sheet Subset: LI
Structure Numbers
Subset Sheets: 1 of 8

Project No./Code
M021-004 / 23961
Drawing Number LI-601
Sheet Number 59 of 84

Plot Date: 11/8/2021 2:12 PM Plotted By: Matthew Fila
Date Created: 10/11/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEETS\81-20-015_LI-100.DWG



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
	Drip Control Zone Kit - 1"	12
	Manual Drip Line Drain Valve	40
	Manual Drip Line Drain Valve	40
	Area to Receive Dripline Drip Line Assembly	17,867 l.f.

SYMBOL	MANUFACTURER/MODEL	QTY
	Quick Coupling Valve Assembly	3
	Isolation Gate Valve Assembly (line size)	3
M	Master Valve Assembly 1-1/2"	1
D	Manual Drain Valve Assembly	3
BF	Reduced Pressure Principle Assembly 1"	1
C	Pedestal Mount Controller Assembly	1
	Single Station Decoder	12
M	Water Meter 1"	1
POC	Point of Connection 1-1/2"	1
	Irrigation Lateral Line: PVC Schedule 40	1,725 l.f.
	Irrigation Mainline: PVC Schedule 40	1,149 l.f.
	Pipe Sleeve: PVC Class 200 SDR 21	457.3 l.f.

Valve Callout
Valve Number
Valve Flow
Valve Size

NOTE: THE IRRIGATION PLAN IS DIAGRAMMATIC IN NATURE. ALL IRRIGATION EQUIPMENT SHALL BE LOCATED WITHIN DISTURBED AREAS OUTSIDE ASPHALT TO MINIMIZE ASPHALT REPLACEMENT.

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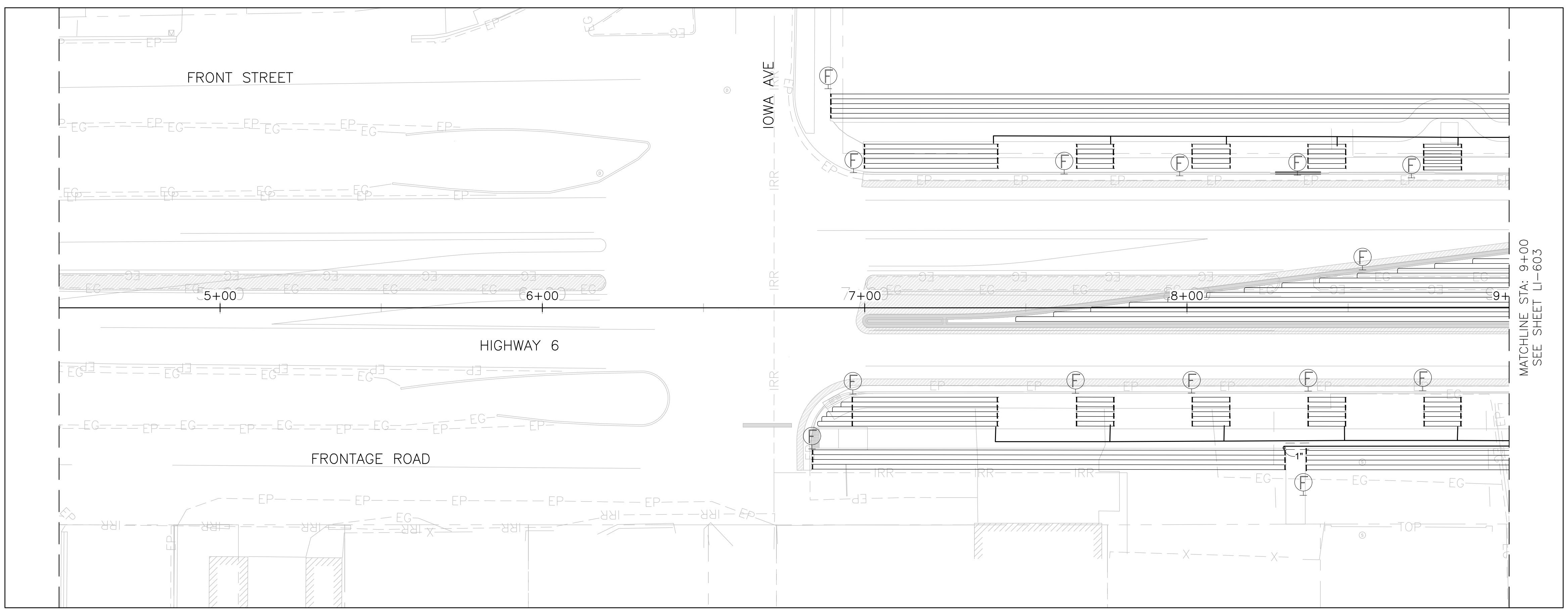

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Scale: 1"=20'

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IRRIGATION PLAN

Designer: SB
Detailer: TS
Sheet Subset: LI
Structure Numbers
Subset Sheets: 2 of 8

Project No./Code
M021-004 / 23961
Drawing Number LI-602
Sheet Number 60 of 84

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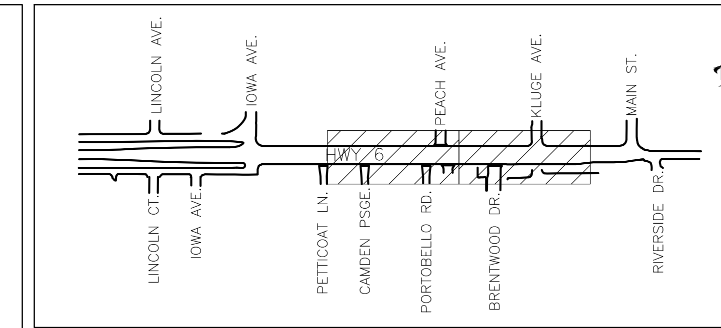

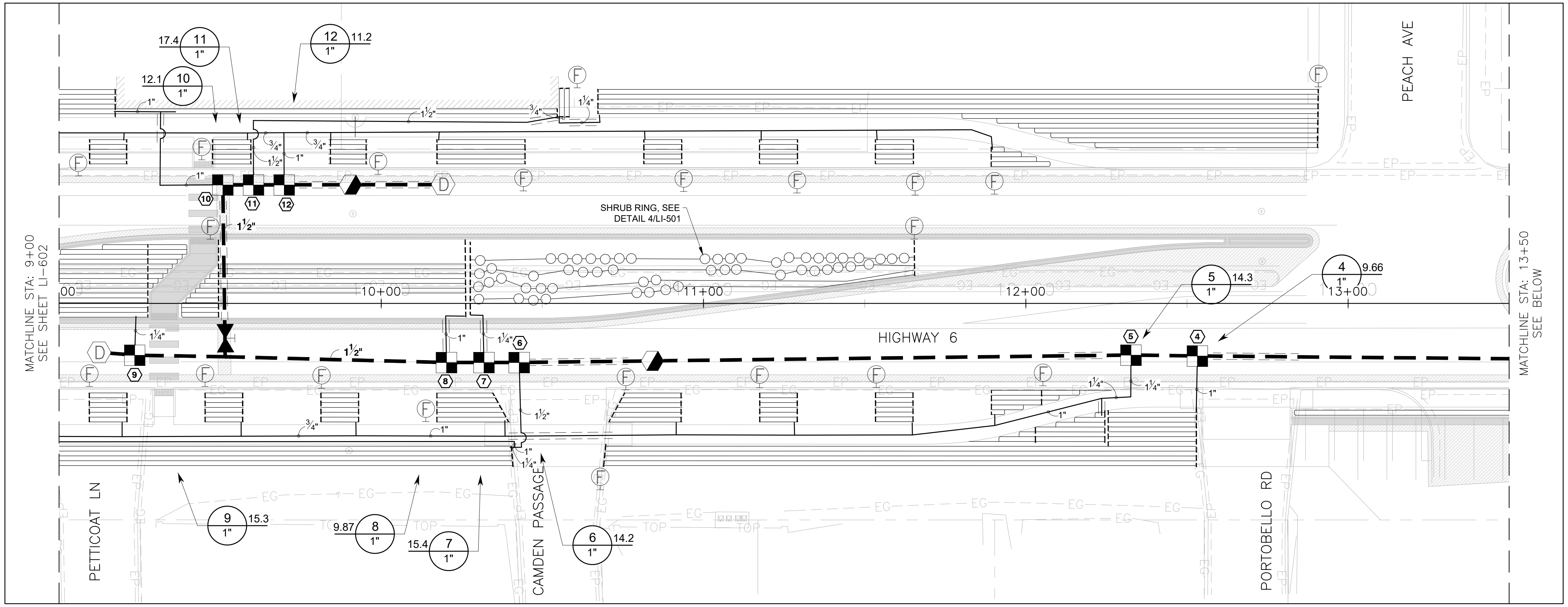

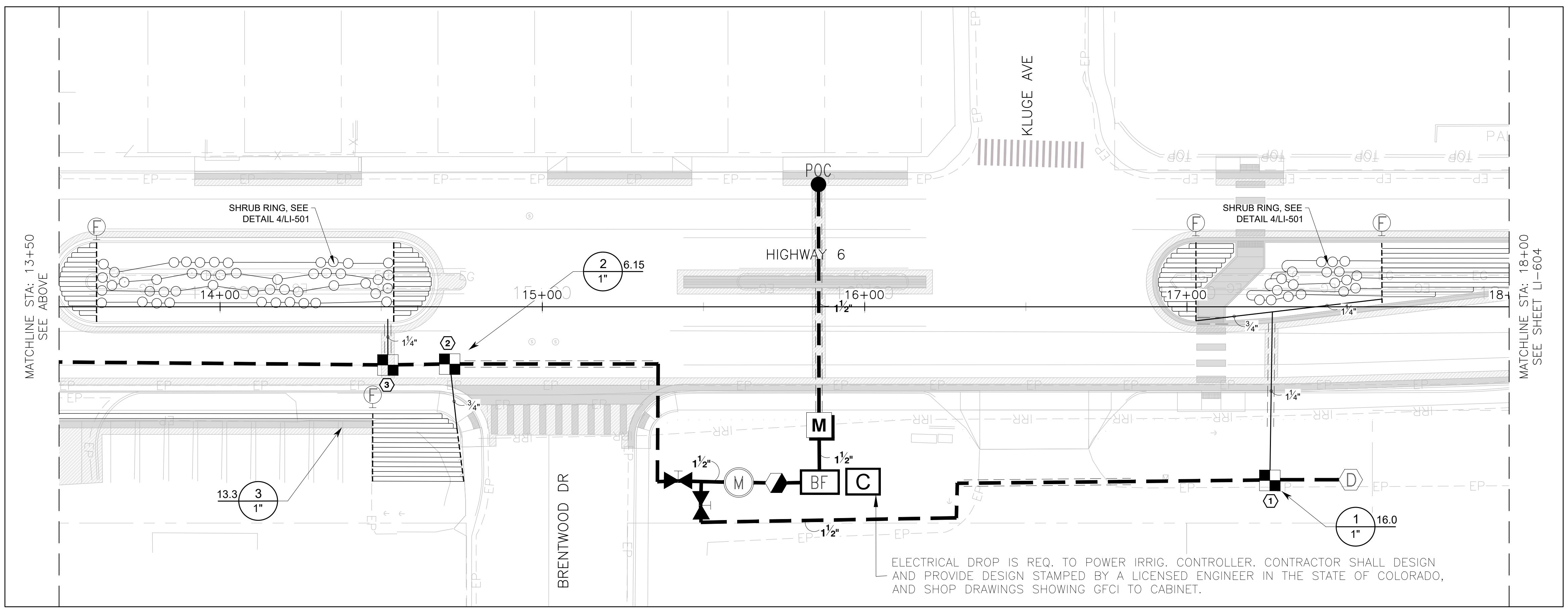

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
	Drip Control Zone Kit - 1"	12
	Manual Drip Line Drain Valve	40
	Manual Drip Line Drain Valve	40
	Area to Receive Dripline Drip Line Assembly	17,867 l.f.

SYMBOL	MANUFACTURER/MODEL	QTY
	Quick Coupling Valve Assembly	3
	Isolation Gate Valve Assembly (line size)	3
	Master Valve Assembly 1-1/2"	1
	Manual Drain Valve Assembly	3
BF	Reduced Pressure Principle Assembly 1"	1
C	Pedestal Mount Controller Assembly	1
	Single Station Decoder	12
M	Water Meter 1"	1
POC	Point of Connection 1-1/2"	1
	Irrigation Lateral Line: PVC Schedule 40	1,725 l.f.
	Irrigation Mainline: PVC Schedule 40	1,149 l.f.
	Pipe Sleeve: PVC Class 200 SDR 21	457.3 l.f.

Valve Callout — Valve Number — Valve Flow — Valve Size

NOTE: THE IRRIGATION PLAN IS DIAGRAMMATIC IN NATURE. ALL IRRIGATION EQUIPMENT SHALL BE LOCATED WITHIN DISTURBED AREAS OUTSIDE ASPHALT TO MINIMIZE ASPHALT REPLACEMENT.

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IRRIGATION PLAN

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Sheet Subset: LI
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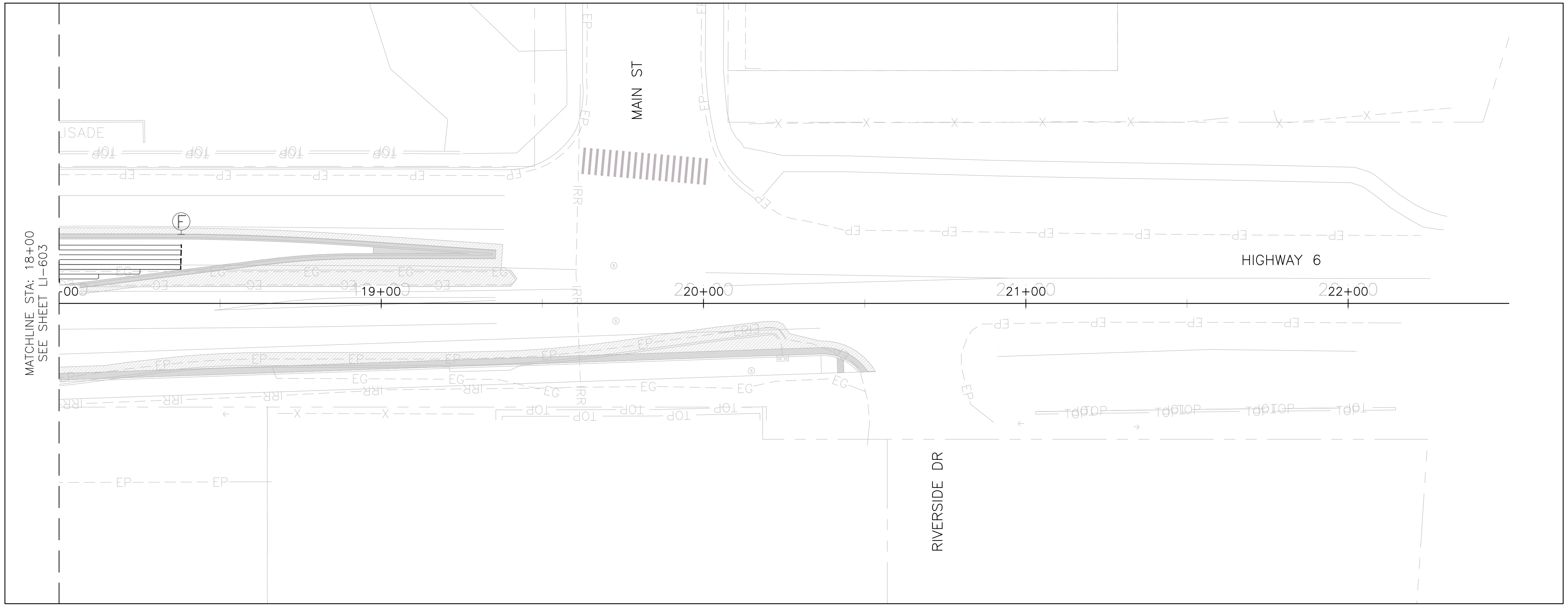
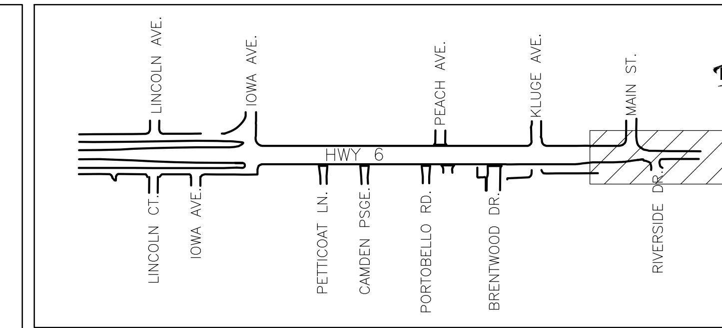
Subset Sheets: 3 of 8

Project No./Code
M021-004 / 23961
Drawing Number LI-603
Sheet Number 61 of 84





IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
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	Manual Drip Line Drain Valve	40
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	Quick Coupling Valve Assembly	3
	Isolation Gate Valve Assembly (line size)	3
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	Reduced Pressure Principle Assembly 1"	1
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	Single Station Decoder	12
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	Pipe Sleeve: PVC Class 200 SDR 21	457.3 l.f.

Valve Callout
Valve Number
Valve Flow
Valve Size

NOTE: THE IRRIGATION PLAN IS DIAGRAMMATIC IN NATURE. ALL IRRIGATION EQUIPMENT SHALL BE LOCATED WITHIN DISTURBED AREAS OUTSIDE ASPHALT TO MINIMIZE ASPHALT REPLACEMENT.

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HIGHWAY 6 MMOF
IRRIGATION PLAN

Designer: SB
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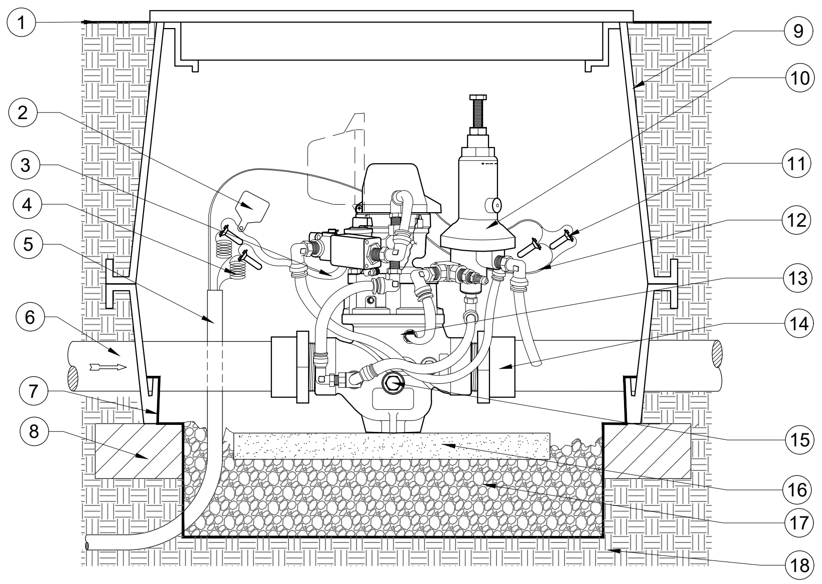
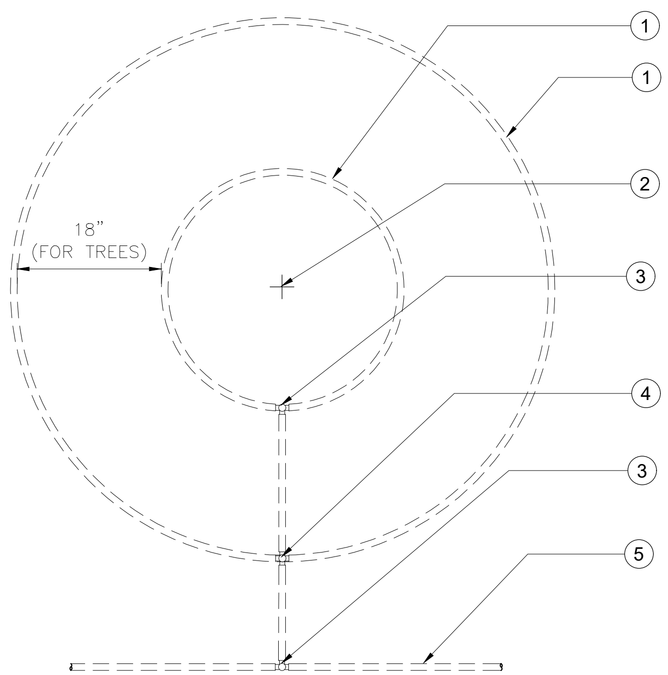
Sheet Subset: LI
Structure Numbers
Subset Sheets: 4 of 8

Project No./Code
M021-004 / 23961
Drawing Number LI-604
Sheet Number 62 of 84



1. FINISH GRADE
2. VALVE ID TAG WITH "MV" PRINTED ON IT
3. MASTER VALVE WIRES FROM SOLENOID (INCLUDED)
4. PAIR OF WIRES, COLOR CODED DIFFERENT THAN OTHER VALVES. REFER TO CONTROLLER SPECS
5. 1 1/2" SCH 40 CONDUIT FROM CONTROLLER PER SPECS. PULL BOXES EVERY 200' AND ON EACH SIDE OF HARDSCAPE AREAS.
6. PVC MAINLINE PIPING PER IRRIGATION SPECS (PLAN SIZE)
7. FILTER FABRIC PER SPECS
8. CONCRETE PAVERS ONLY (4 TOTAL / 1 PER CORNER)
9. JUMBO VALVE BOX (WITH EXTENSION(S) PER SPECS).
10. PRESSURE REDUCING PILOT
11. WATERPROOF WIRE CONNECTORS (3M DBY/DBR).
12. SHIELDED FLOW SENSOR WIRES TO CONTROLLER (PER CONTROLLER SPECS).
13. HYDROMETER - SEE IRRIGATION SCHEDULE
14. SCH. 80 PVC MIPT ADAPTOR SIZE PER VALVE AND MAINLINE PIPING (2 REQUIRED)
15. DRAINAGE NUT FOR WINTERAZATION (INCLUDED).
16. CONCRETE PAVER SUPPORT BLOCK.
17. COMPACTED (95% MDD) 3/4" WASHED CRUSHED GRAVEL. 12" THICK MIN,
18. COMPACTED NATIVE SOIL.

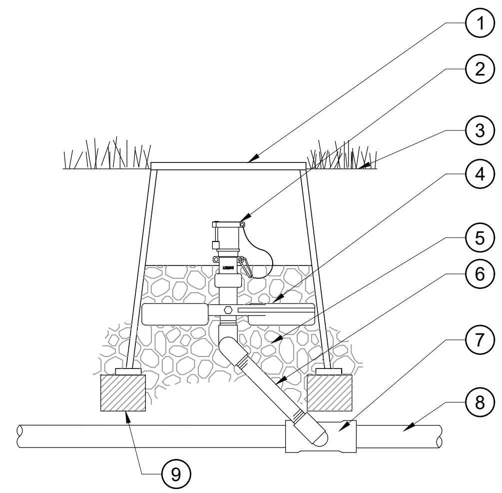
3 HYDROMETER MASTER VALVE AND FLOW SENSOR



1. NETAFIM DRIPLINE (TYP) TDL-4-12 (18) TREE RING
2. TREE/SHRUB TRUNK
3. INSERT TEE (TYP) MODEL: TLTEE
4. INSERT CROSS (TYP) MODEL: TLCROS
5. NETAFIM DRIPLINE (TYP) TDL-4-12 (18) SHRUB AREA

4 TREE/SHRUB RING CONNECTED TO SURFACE DRIP AREA

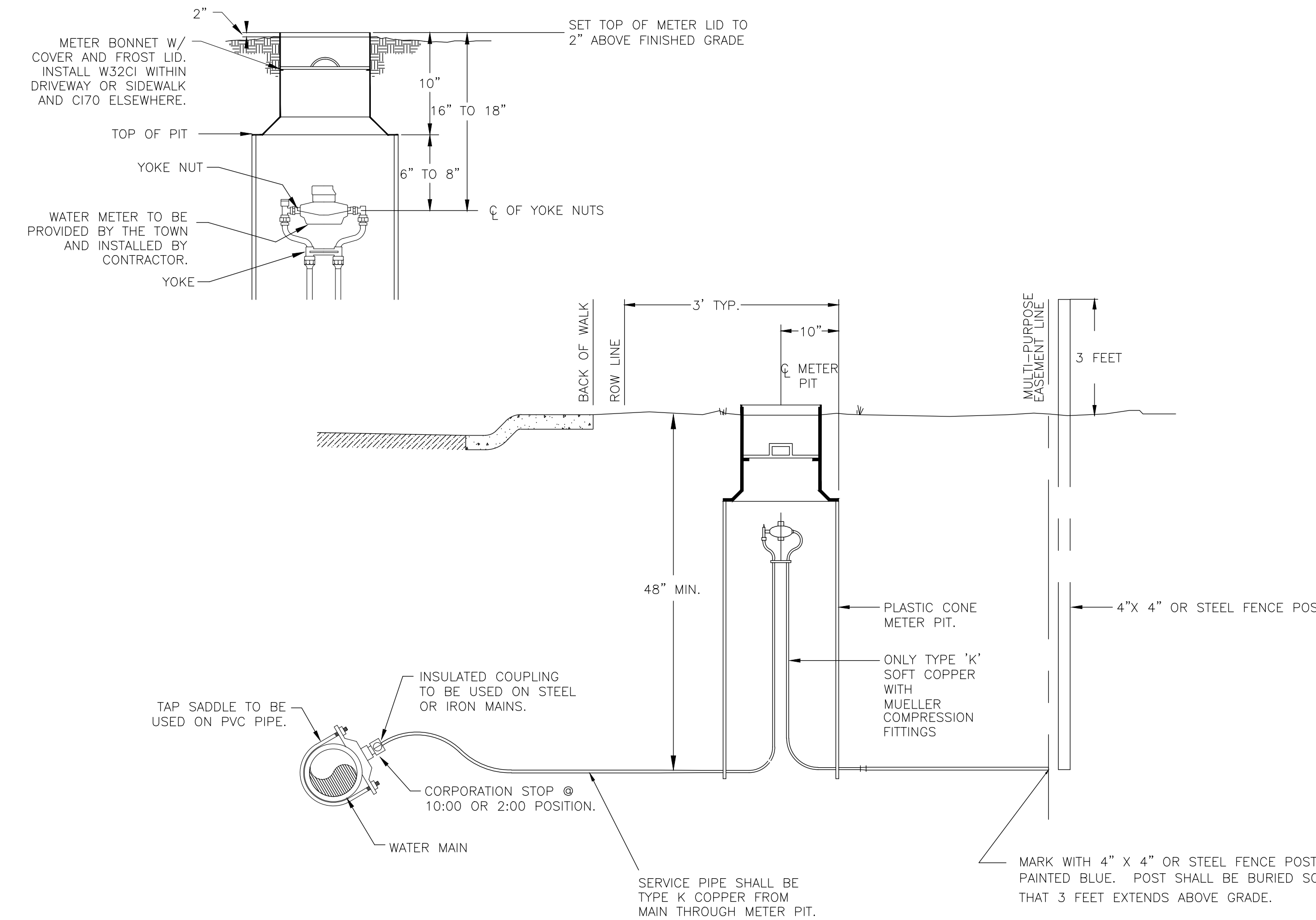
NTS



1. 10" ROUND GREEN PLASTIC VALVE BOX W/ BOLT LOCK (CARSON OR APPROVED EQUAL)
2. LEEMCO L2 QUICK COUPLER VALVE
3. FINISH GRADE
4. LEEMCO LS-120 QUICK COUPLER STABILIZER
5. 6" MIN. DEPTH CLEAN PEA GRAVEL
6. 12" LASCO UNITIZED SWING JOINT W/ BRASS INSERT STABILIZER ELBOW OR 12" SPEARS SWING JOINT RISER ASSEMBLY W/ BRASS FEMALE THREAD 90 DEGREE ELL OUTLET
7. SERVICE TEE USE APPROPRIATE FITTING TYPES FOR PIPE SIZE (SIZE PER MAINLINE)
8. PVC MAIN LINE
9. 4 X 4 PRESSURE TREATED WOOD TIMBER FRAME

2 LEEMCO L2 QUICK COUPLING VALVE ASSEMBLY

NTS



1 WATER METER & PIT INSTALLATION

NTS

PJT-HWY 6-16

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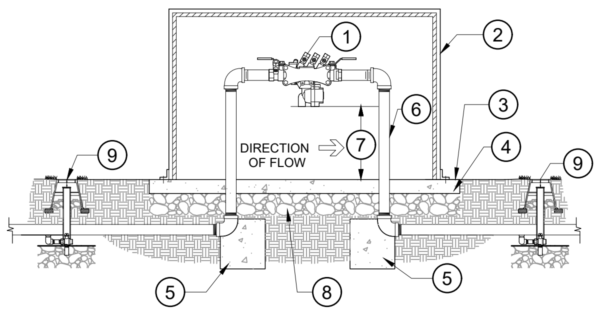
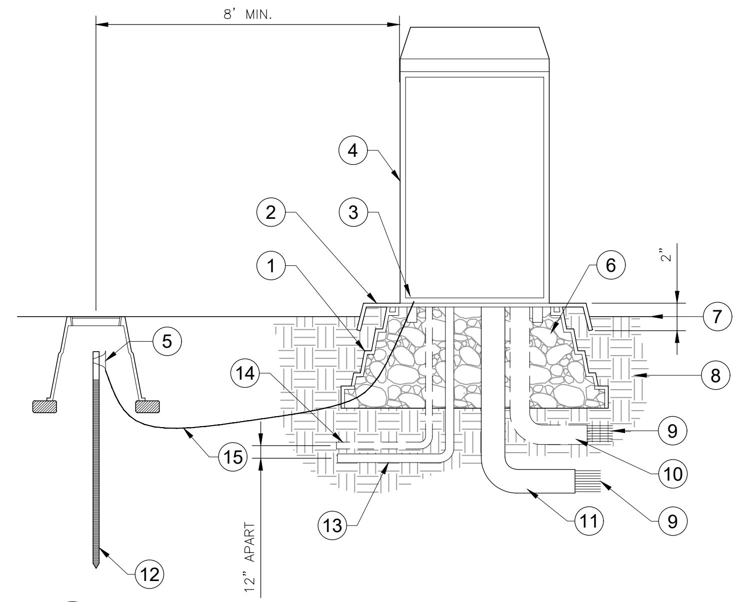
Print Date: 11/8/2021	Sheet Revisions		Ad Set	HIGHWAY 6 MMOF IRRIGATION DETAILS		Project No./Code
Scale: N.T.S.	Date:	Comments	No Revisions:			M021-004 / 23961
J-U-B ENGINEERS, INC. 305 South Main Street #6 Palisade, CO 81526 Phone: (970) 208-8508			Revised:	Designer: SB	Structure Numbers	Drawing Number LI-605
Town of Palisade Colorado 175 East Third Street Palisade, CO 81526 Phone: (970) 464-1116				Detailer: TS		
COLORADO Department of Transportation			Void:	Sheet Subset: LI	Subset Sheets: 5 of 8	Sheet Number 63 of 84



1. REDUCED PRESSURE BACKFLOW PREVENTION DEVICE WITH TWO (2) BALL VALVES - SEE IRRIGATION EQUIPMENT SCHEDULE FOR TYPE AND SIZE
2. BACKFLOW ENCLOSURE - SEE IRRIGATION EQUIPMENT SCHEDULE (INSTALL PER MANUFACTURER'S SPECIFICATIONS)
3. FINISHED GRADE
4. 4" THICK CONCRETE PAD (SIZE AS REQUIRED, EXTEND 6" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE)
5. CONCRETE THRUST BLOCK
6. THREADED GALVANIZED SPOOL (TYP.) - SIZE AND LENGTH AS REQUIRED
7. 12" MIN. 30" MAX.
8. 4" MIN. DEPTH ROAD BASE COMPACTED TO 95% MDD
9. MANUAL DRAIN VALVE ASSEMBLY. SEE DETAIL FOR ADDITIONAL INFORMATION.

1 REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY
NTS

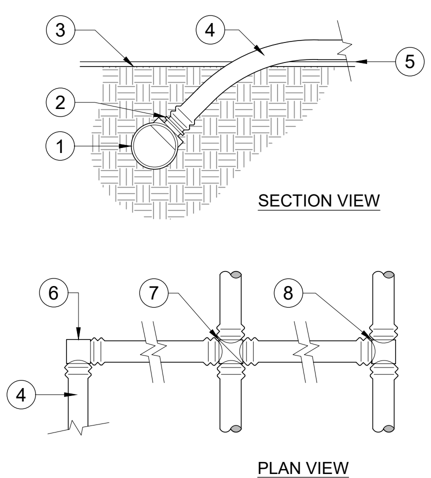


1. PRE-FORMED SUPPORT BASE
2. QUICKPAD 3/16" MIN. THICKNESS ALUMINUM POWDER COATED PREFORMED PAD
3. (2) QUICKPAD FASTENING BRACKET
4. CONTROLLER AND CONTROLLER ENCLOSURE - SEE IRRIGATION EQUIPMENT SCHEDULE
5. CADWELD CLAMP CONNECTED TO CONTROLLER GROUND WIRE
6. FILL INSIDE BASE WITH PEA GRAVEL
7. FINISHED GRADE
8. SUBGRADE COMPACTED TO 90% MDD
9. DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES. IN 2-WIRE SYSTEM, PLACE CABLES IN PVC ELECTRICAL CONDUIT.
10. ADDITIONAL PVC CONDUIT W/ SWEEP ELL - AS NEEDED (TRADITIONAL WIRING)
11. 2" PVC CONDUIT W/ SWEEP ELL - MAX. 40 14 AWG WIRES (TRADITIONAL WIRING)
12. 5/8" X 8' COPPER CLAD GROUND ROD INSTALL GROUNDING PER MANUFACTURER'S RECOMMENDATIONS.
13. 110 - VOLT SERVICE IN CONDUIT
14. 1" COMMUNICATION CABLE CONDUIT (IF APPLICABLE)
15. 8 AWG SOLID BARE COPPER WIRE

NOTES:

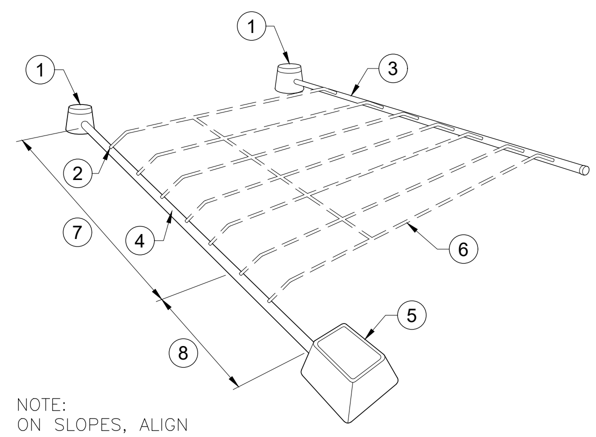
1. GROUND ROD OR COPPER GROUND PLATE MIN. 8' AND 12' MAX. AWAY FROM CONTROLLER. REFER TO MANUFACTURER'S RECOMMENDATION FOR GROUNDING EQUIPMENT SIZE AND INSTALLATION.
2. GROUNDING RESISTANCE SHOULD BE MEASURED AT 10 OHMS OR LESS. IF GREATER THAN 10 OHMS, A SECOND GROUNDING ROD OR PLATE MAY BE REQUIRED.
3. IN TWO-WIRE SYSTEMS BOTH THE COMMON WIRE AND THE CONTROL WIRE ARE COMBINED INTO A SINGLE 2-WIRE CABLE.
4. QUICKPAD MAY BE REPLACED WITH 6" THICK CONCRETE PAD. CONCRETE PAD DIMENSIONS SHALL BE 6" LARGER ON ALL SIDES THAN THE FOOTPRINT OF CONTROL BOX.

2 PEDESTAL-MOUNT CONTROLLER
NTS



1. 1 1/2" PVC HEADER
2. NETAFIM TLIAPVC CONNECTION
3. PLANTING BED FINISHED GRADE
4. DRIPLINE / BLANK TUBING
5. WEED BARRIER FABRIC
6. ELBOW
7. CROSS
8. TEE

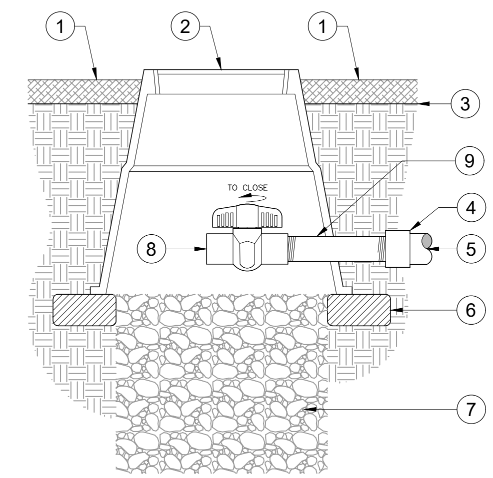
3 DRIPLINE CONNECTIONS
NTS



NOTE:
ON SLOPES, ALIGN DRIPLINE PARALLEL TO THE CONTOURS OF THE SLOPE.

1. MANUAL FLUSH VALVE PLUMBED TO PVC IN LOWEST POINT
2. NETAFIM TLIAPVC CONNECTOR
3. 1 1/2" PVC EXHAUST HEADER (SEE NOTES FOR DEPTH)
4. 1 1/2" PVC SUPPLY HEADER (SEE NOTES FOR DEPTH)
5. REMOTE CONTROL VALVE ASSEMBLY
6. DRIPLINE TUBING LATERAL - INSTALL AT GRADE UNDER MULCH AND ON TOP OF FABRIC (IF FABRIC IS USED)
7. ON SLOPES, USE THE SPECIFIED DRIPLINE SPACING ON THE TOP 2/3 OF THE SLOPE
8. ON SLOPES, USE THE SPECIFIED DRIPLINE SPACING PLUS 25% ON THE BOTTOM 1/3 OF SLOPE

4 DRIPLINE CIRCUIT LAYOUT
NTS



1. PLANTING BED MULCH - SEE PLANTING NOTES FOR DEPTH
2. 8" ROUND GREEN PLASTIC VALVE BOX (CARSON OR APPROVED EQUAL) FLUSH WITH MULCH GRADE
3. FINISHED GRADE
4. PVC REDUCER BUSHING (SP X 1/2") FIPT - SIZE AS REQUIRED
5. PVC EXHAUST HEADER
6. CONCRETE PAVERS ONLY
7. 1 C.F. WASHED PEA GRAVEL
8. ½" PLASTIC PVC BALL VALVE
9. ½" X 6" (SCH. 80 PVC) NIPPLE TBE

5 DRIP FLUSH VALVE (PLUMBED TO PVC EXHAUST HEADER)
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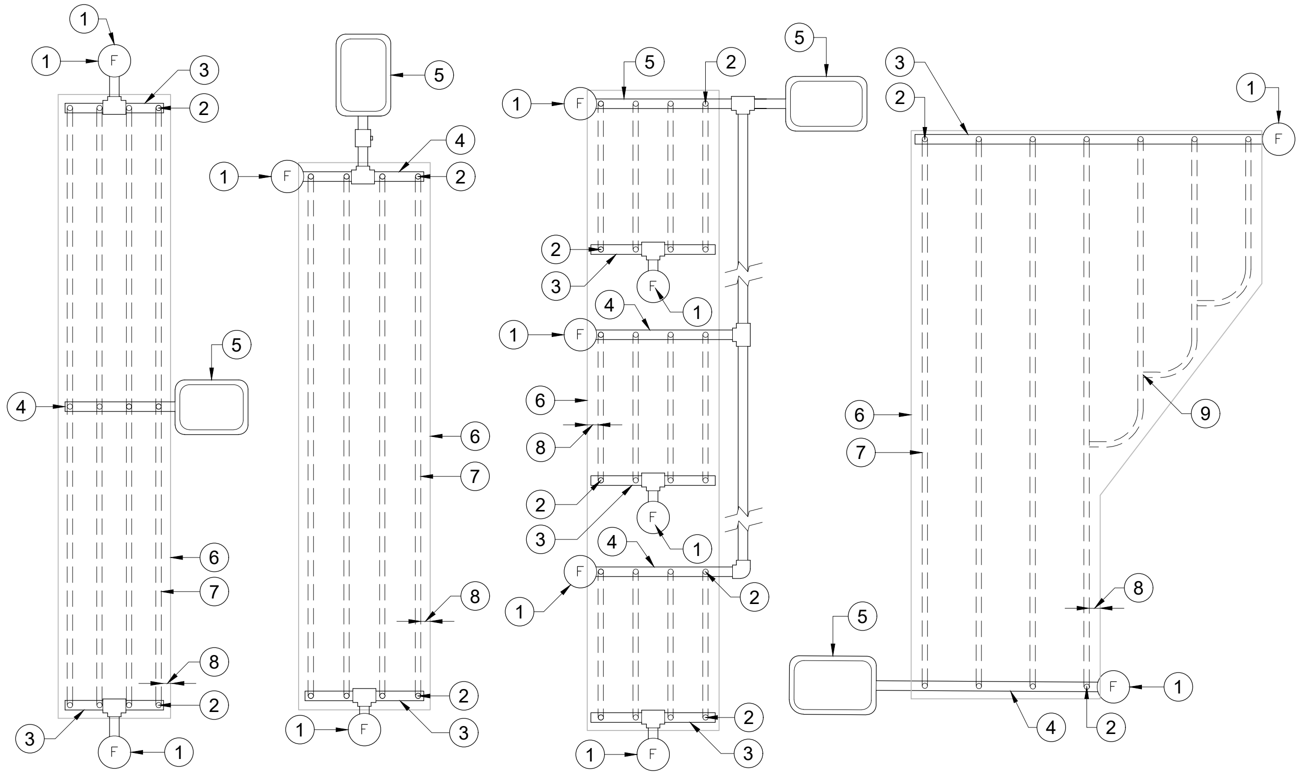
HIGHWAY 6 MMOF
IRRIGATION DETAILS

Designer: SB
Detailer: TS
Sheet Subset: LI
Structure Numbers
Subset Sheets: 6 of 8

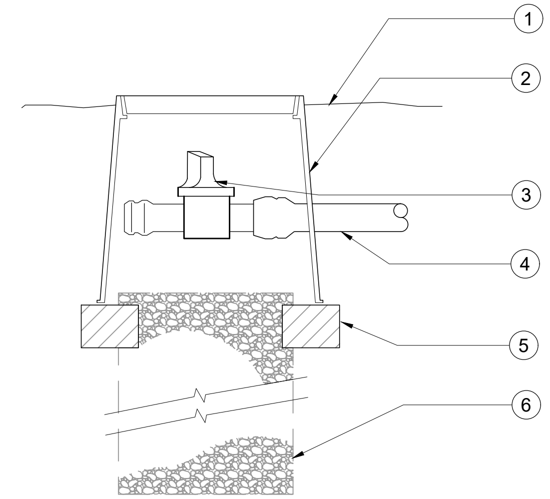
Project No./Code
M021-004 / 23961
Drawing Number LI-606



1. MANUAL FLUSH VALVE PLUMBED TO PVC IN LOWEST POINT
2. NETAFIM TLIAPVC CONNECTOR
3. 1 1/2" PVC EXHAUST HEADER
4. 1 1/2" PVC SUPPLY HEADER
5. REMOTE CONTROL VALVE ASSEMBLY
6. AREA PERIMETER
7. DRIPLINE TUBING LATERAL
8. PERIMETER DRIPLINE TUBING LATERALS 2" T0 4" FROM EDGE
9. DRIPLINE TEE

1 INLINE DRIP LAYOUTS (TYP.)

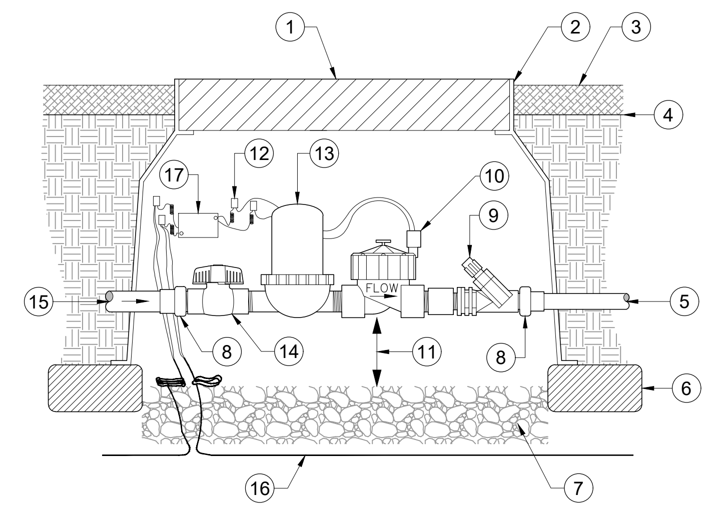
NTS



1. FINISH GRADE
2. 8" ROUND GREEN PLASTIC VALVE BOX (CARSON OR APPROVED EQUAL)
3. MANUAL LINE FLUSHING VALVE NETAFIM MODEL: TLSOV
4. TECHLINE CV 17mm TUBING
5. CONCRETE PAVERS SUPPORTS (THREE)
6. 3/4" GRAVEL SUMP (1 CUBIC FOOT)

2 FLUSH VALVE ASSEMBLY (PLUMBED TO DRIPLINE)

NTS



1. 18" JUMBO GREEN PLASTIC VALVE BOX W/ BOLT LOCK (CARSON OR APPROVED EQUAL)
2. 1" MAX. CLEARANCE
3. PLANTING BED MULCH - SEE PLANTING NOTES FOR DEPTH
4. FINISHED GRADE
5. PVC SUPPLY HEADER
6. CONCRETE PAVERS ONLY
7. 4" MIN. PEA GRAVEL
8. ACTION UNION - PART 18010-XX, PART 18011-XX, PART 18012
9. INLINE PRESSURE REGULATOR
10. ELECTRIC CONTROL VALVE - SEE IRRIGATION EQUIPMENT SCHEDULE
11. 2" MIN. CLEARANCE
12. (4) 3M DBR/Y WATER TIGHT WIRE CONNECTORS
13. INLINE 1" FILTER
14. PLASTIC PVC BALL VALVE
15. FLOW FROM PVC MAIN LINE
16. TWO-WIRE CONTROL WIRE
17. DECODER - SEE IRRIGATION EQUIPMENT SCHEDULE

3 DRIP ZONE REMOTE CONTROL VALVE 2 WIRE ASSEMBLY

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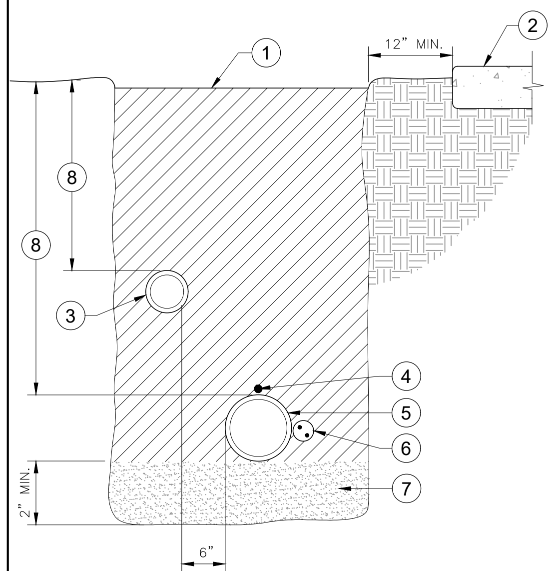
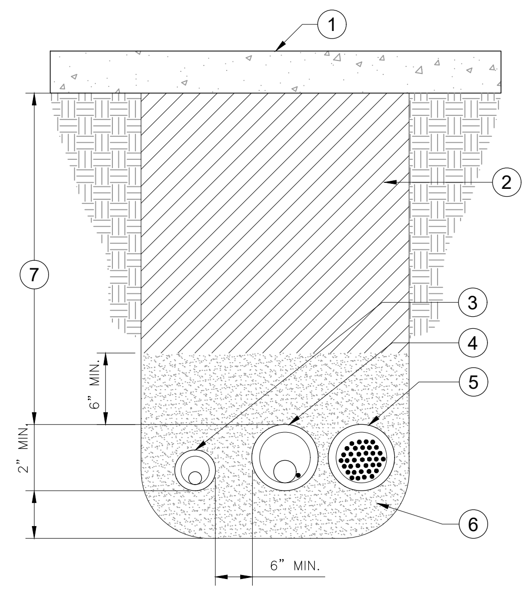


1. BACKFILL MATERIAL - SEE NOTES, COMPACT TO 90% MDD
2. ADJACENT HARD SURFACE
3. NON-PRESSURE LATERAL LINE
4. MAIN LINE LOCATOR WIRE; BURIED WITH ALL MAIN LINES
5. PVC MAIN LINE
6. DIRECT BURIAL, LOW VOLTAGE CONTROL WIRES; TO BE BURIED AND TAPED AT 10' INCREMENTS. LOCATE DIRECTLY ADJACENT TO MAIN LINE.
7. BEDDING MATERIAL - SEE NOTES
8. PIPE DEPTHS - SEE NOTES

NOTE: SEE SLEEVING DETAIL FOR TRENCHING IN PAVED AREAS.

1 TRENCH DETAIL

NTS JUB-IR-PIP-01

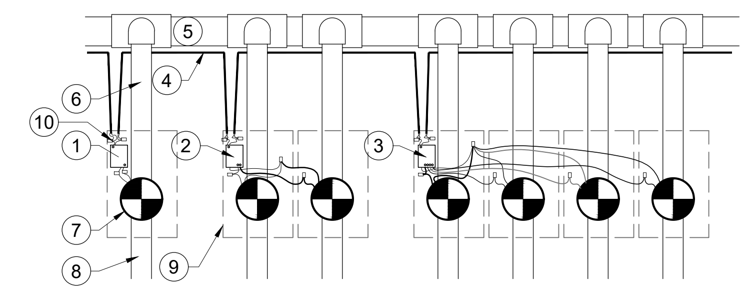


1. HARDSCAPE SURFACE - SEE PLANS
2. BACKFILL MATERIAL - SEE NOTES
3. LATERAL LINE WITH SLEEVE
4. PVC MAIN LINE AND LOCATOR WIRE WITH SLEEVE
5. CONTROL WIRE SLEEVE - SEE PLANS FOR SIZE
6. BEDDING MATERIAL - SEE NOTES
7. MIN. COVER - 12" UNDER WALKS AND 48" UNDER STREETS

NOTES:
1) SLEEVES 4" AND SMALLER USE PVC SCHEDULE 40 PIPE.
2) SLEEVES LARGER THAN 4" USE PVC CLASS 200.
3) ALL SLEEVES SHALL BE TWO (2) TIMES LARGER THAN THE DIAMETER OF THE PIPE BEING SLEEVED, UNLESS NOTED OTHERWISE ON THE PLANS.
4) INSTALL SLEEVES AT A DEPTH SUFFICIENT TO AVOID CONFLICT WITH OTHER UTILITIES AND MAINS.

2 SLEEVE DETAIL

NTS JUB-IR-PIP-02

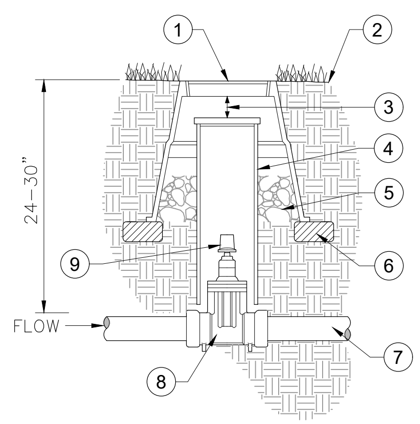


NOTES:
VALVE BOXES SHALL HAVE A MINIMUM SPACING OF 2'. INSTALL DECODERS AS PER MANUFACTURE'S RECOMMENDATIONS.

1. SINGLE (1) VALVE DECODER - SEE IRRIGATION EQUIPMENT SCHEDULE
2. DOUBLE (2) VALVE DECODER - SEE IRRIGATION EQUIPMENT SCHEDULE
3. QUADRUPLE (4) VALVE DECODER - SEE IRRIGATION EQUIPMENT SCHEDULE
4. TWO WIRE COMMUNICATION WIRE TO CONTROLLER
5. MAIN LINE
6. MAIN LINE STUB TO CONTROL VALVE
7. CONTROL VALVE - SEE IRRIGATION EQUIPMENT SCHEDLUE AND CONTROL VALVE DETAIL
8. LATERAL TO HEADS
9. VAVLE BOX - SEE CONTROL VALVE DETAIL
10. 3M DBR/Y WATER TIGHT WIRE CONNECTORS (TYP.)

3 TWO WIRE DECODER DIAGRAM

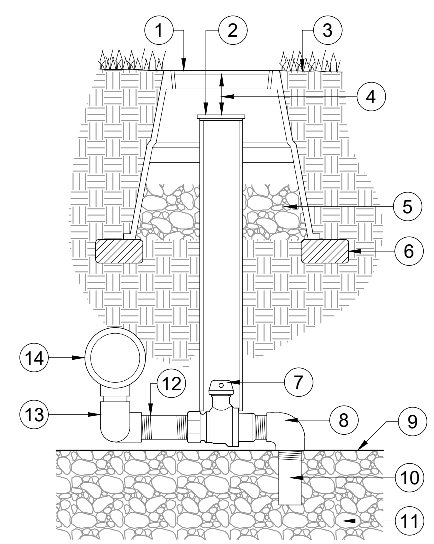
NTS



1. 10" ROUND PLASTIC VALVE BOX W/ BOLT LOCK (CARSON OR APPROVED EQUAL, MARKED "G.V." IN 2" WHITE LETTERS)
2. FINISHED GRADE
3. 3" MIN. CLEARANCE
4. 4" PVC SCHEDULE 40 PIPE SLEEVE (NOTCH TO FIT PIPE), CAPPED BY CAM LOCK SNUG CAP
5. 3"-4" DEPTH CLEAN PEA GRAVEL
6. CONCRETE PAVERS ONLY
7. PVC MAIN LINE
8. GATE VALVE - SEE IRRIGATION EQUIPMENT SCHEDULE
9. 2" SQUARE OPERATING NUT

4 ISOLATION GATE VALVE (PUSH-ON; 2")

NTS



1. 10" ROUND GREEN PLASTIC VALVE BOX WITH BOLT LOCK (CARSON OR APPROVED EQUAL)
2. 4" PVC SCHEDULE 40 PIPE SLEEVE (NOTCH TO FIT PIPE), CAPPED BY YELLOW CAM LOCK SNUG CAP
3. FINISHED GRADE
4. 3" MIN. 6" MAX. CLEARANCE
5. 4" MIN. PEA GRAVEL
6. CONCRETE PAVERS ONLY
7. 3/4" VALVE - SEE IRRIGATION EQUIPMENT SCHEDULE
8. 3/4" 90 DEGREE STREET ELL
9. FILTER FABRIC COVERING SUMP
10. 3/4" X 6" PVC SCHEDULE 80 TOE NIPPLE
11. 3/4" GRAVEL SUMP - 6 C.F. MIN. SIZE
12. 3/4" X 12" PVC SCHEDULE 80 NIPPLE
13. (2) FIPT X FIPT 90 DEGREE ELL, (2) 3/4" X CLOSE PVC NIPPLE
14. PVC MAIN LINE AND SERVICE TEE

NOTE: MAIN LINE SHALL GRAVITY DRAIN TO MANUAL DRAIN VALVE. MANUAL DRAIN VALVE SHALL BE PLACED IN ALL LOW SPOTS AND WHERE SHOWN ON THE PLAN.

5 MANUAL DRAIN VALVE ASSEMBLY

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HIGHWAY 6 MMOF
IRRIGATION DETAILS

Designer: SB	Structure Numbers		
Detailer: TS			
Sheet Subset: LI	Subset Sheets: 8 of 8		

Project No./Code
M021-004 / 23961
Drawing Number LI-608

PLANTING NOTES

1. The Contractor shall be familiar with the planting and irrigation technical specifications -- failure to do so will not relieve the contractor of his responsibility to fulfill all requirements in said specifications.

2. Prior to any planting operations, the irrigation system shall be fully operational and all planting areas shall be thoroughly moistened.

3. The planting plan is diagrammatic, and all plant locations are approximate. Plant symbols take precedence over plant quantities shown on the plans and in the Plant Material Schedule. The Contractor shall verify all plant quantities and notify the Landscape Architect of any discrepancies between the quantities and the symbols shown. The Plant Materials Schedule is for the Contractor's convenience only.

4. No substitution of size, grade, variety or any species shall be permitted except by written permission of the Landscape Architect. Upon receiving Notice to Proceed, the Contractor shall provide written proof that the specified plant material is available and has been secured or reserved specifically for this project. Obtain nursery stock and other plant materials from reliable and stable sources prior to order and delivery.

5. Final Grade Preparation
   A. The subgrade Material Shall be rough graded to plus or minus one tenth (+0.1) foot of the final rough grade, which will allow the Contractor to achieve final finished grade through the placement of the topsoil.
   B. Protect existing trees, shrubs, lawns, existing structures, fences, roads, sidewalks, paving, curb and gutter and other features during Construction.
   C. Protect above or below grade utilities. Contact utility companies to repair damage to utilities. Contractor shall pay all cost of repairs which he causes.
   D. Maintain all benchmarks, control monuments and stakes, whether newly established by surveyor or previously existing. Protect from damage and dislocation.
   E. Grading Intent: Spot elevations and contours indicated are based on the best available data. The intent is to maintain constant slopes between spot elevations.
   F. Conduct work in an orderly manner. Do not create a nuisance. Do not permit soil accumulation on streets or sidewalks. Do not allow soil to be washed into sewers and storm drains.
   G. Grade slopes to provide adequate drainage after compaction. Do not create water pockets or ridges. Use all means necessary to prevent erosion of freshly graded areas during construction until surfaces have been constructed and landscaping areas have taken hold.
   H. Grades shall be smooth, even, and maintain a consistent uniform slope. Grades with undulating surfaces will be rejected and require re-grading.
   I. The Contractor shall maintain a minimum of two (2) percent drainage away from all buildings, structures, and walls. Finished grades shall be smoothed to eliminate puddling or standing water.
   J. All finished grades shall be approved by the Landscape Architect prior to installation of any plant materials.

6. All planting areas shall receive a minimum of twelve (12) inches of topsoil in planting beds. All topsoil used on this project shall meet the following criteria:
   A. pH:..........5.6 – 7.5
   B. EC (electrical conductivity):..........<2.0 mmhos per centimeter
   C. SAR (sodium absorption ratio):..........0–10.0
   D. % OM (percent organic matter):..........3–5%
   E. Texture (particle size per USDA classification):
      I. Sand:..........<70%
      II. Silt:.......... <70%
      III. Clay:.......... <30%
      IV. Stone Fragments (gravels or any soil particle Greater than two (2) mm in size):.......... <5% (by volume)
      V. Rocks > 1.5":.......... None

   In addition, the topsoil shall be fertile, friable, natural loam and shall be capable of sustaining vigorous plant growth. It shall be free of stones, lumps, clods of hard earth, plants or their roots, sticks, and other extraneous matter. The topsoil shall contain neither noxious weeds nor their seeds. It shall not be used for planting operations while in a frozen or muddy condition. An appropriate fertilizer may be used to provide needed nutrients for healthy and vigorous plant growth. Follow recommendation of topsoil report and refer to CDOT Section 207 Topsoil (Offsite) amendment and preparation protocols.

7. The following procedure shall be followed in placing all topsoil:
   A. All areas to receive topsoil which have a slope of less than ten (10) percent shall be cross-ripped to a depth of four (4) to six (6) inches.
   B. The surface of the subgrade shall be scarified to a depth of two (2) inches to provide a transition zone between the subgrade and the topsoil. Place the topsoil on the subgrade and fine grade to the final finished grade and topsoil depths as indicated on the drawings and in these notes.
   C. Any required soil amendments (i.e. organic matter, fertilizer, gypsum, etc.) shall be placed directly on the topsoil at the required rates and spread evenly over the planting area. The amendments shall then be thoroughly blended into the topsoil to a depth of four (4) inches. Where only a dry, granular fertilizer is to be added, it may be applied to the surface and raked in during the fine grading process.

8. The Contractor shall obtain a soil analysis from any authorized soil testing agency of any existing stockpiled or imported topsoil to be used on the project to verify that it conforms to the topsoil specifications. Test results shall include horticultural nutrient recommendations. The soil samples shall be obtained per the testing agency directions. Allow ten (10) working days to obtain test results. The costs for such testing shall be the responsibility of the Contractor. Prior to delivery of the imported topsoil to the site, the Contractor shall provide to the Landscape Architect the name and location of the topsoil source, along with the certified soil analysis of the topsoil to be used. The analysis shall verify that the proposed topsoil meets the topsoil specifications, and is capable of supporting healthy plant growth.

9. After imported top soil has been delivered to the site, a second soils test may be required to verify that it is indeed the same soil as previously tested and designated for use in this project. No substitution of top soil shall be allowed without prior written authorization from the Landscape Architect.

10. All plants used for this project shall conform to the following:
   A. Any inspection certificates required by law shall accompany each delivery of plants and such certificate shall be filed with the Landscape Architect. All plants shall be subject to inspection and approval at the place of growth or upon delivery to the site for their quality, size, species, and variety. Such approval shall not impair the right of inspection and rejection at the site or during progress of work for size and condition of the plants, latent defects, or injuries. Any and all rejected plants shall be removed immediately from the premises by the Contractor. The Contractor shall make all replacements at his expense should he fail to comply in full with any of the specifications. Necessary replacements will be made as soon as weather conditions permit and all such plants replaced shall conform to all specifications herein.
   B. Plants shall be fresh and vigorous, of normal habit and growth, and free of disease, insects and insect eggs and insect larvae, weeds and weed seed. No heeled-in plants from cold storage shall be accepted except on approval by the Landscape Architect prior to installation.

11. All plants shall be installed using the following procedures:
   A. Plants shall be generally located as indicated by the drawing. The Contractor shall stake out the location of all plants and planting areas, and no excavation or installation shall commence until such locations have been approved by the Landscape Architect.
   B. All trees and shrubs shall be planted in pits as detailed in the planting details contained herein or as noted on the drawings. Tree and shrub pits shall be circular in outline, with a diameter at least two (2) times the diameter of the rootball of each plant to be installed. They shall be one to two and one half (1 – 2 ½) inches shallower than the rootball depth. When the plant is properly placed in the plant pit, the root collar shall be at or approximately one (1) inch above finished grade. The sides of the plant pit shall be roughened, and not smooth or sculpted.
   C. Plant backfill mix shall be one hundred (100) percent native site soil.
   D. For container grown plants, remove the container and place the plant vertically in the plant pit, directly on undisturbed soil. The root crown or collar shall be at or approximately one (1) inch above the finished grade. Perennial plants and ornamental grasses shall be planted with root collar at finished grade.
   E. For balled and burlapped plants, place the plant vertically in the center of the pit, with the rootball resting on undisturbed soil. Cut and remove the wire basket and burlap or other wrapping material from the rootball. This may be done with the rootball in the pit. Any burlap or wire pieces underneath the rootball may be left in place if they cannot be removed. Do not fold the burlap over, but cut away as much as possible without disturbing the rootball. No burlap shall be pulled from under the rootball. Backfill the bottom one third (1/3) of the pit as the wire and burlap are removed. In all cases, maintain the integrity of the rootball.
   F. Specified backfill material shall be carefully and firmly worked and tamped under and around the rootball to fill all voids. When backfilled and compacted to two thirds (2/3) the depth of the pit, thoroughly water with a hose to completely soak the roots and remove any air pockets.
   G. The plant pit shall then be completely backfilled with the specified backfill mix and tamped well. A shallow watering basin or rain cup shall be formed around each plant. This basin will be equal in diameter to that of the original planting pit.
   H. After planting, the following operations shall be performed:
      I. Stake and mulch all trees per installation details.
      II. Remove all nursery stakes ties, and tags from all plants. Prune and remove any dead, damaged, or broken branches. Maintain side growth on all trees.

12. Staking shall be performed as follows:
   A. Two (2) 2"x 2" square or 2" diameter round wood stakes, minimum ten (10) feet in length, shall be used to support each tree planted under this contract unless otherwise indicated. Metal t-posts shall not be used.
   B. Tree ties shall conform to the staking detail shown on the planting detail sheet. Wire and vinyl hose shall not be used.
   C. Each stake shall be located adjacent to the rootball, on opposing sides, to provide maximum support to the trunk. Do not penetrate the rootball with the stake.
   D. The stakes shall be driven into the pit bottom after the tree has been placed in the pit, but before backfilling begins so as to avoid damage to the roots.
   E. Stakes and ties shall be removed after one (1) full growing season from the time the tree was installed.

13. All plants shall be thoroughly watered immediately after planting. This shall mean full and thorough saturation of all backfill in the pits and beds during the same day of planting. Water shall be applied only by open end hose at very low pressure to avoid air pockets, injury to the plant, or washing away of backfill. When installed, watered, and fully settled, the plants shall be vertical. Subsequent watering shall be provided by the site's irrigation system. The Contractor shall insure that all plants, especially trees, receive sufficient water to maintain healthy growth and vigor. Over-watering shall be avoided, and prolonged saturation of the soil around the trees shall be eliminated by appropriately controlling the irrigation circuit which provides water to that area.

14. Mulch (see plant materials schedule and specifications for size requirements) shall be placed to a depth of three (3) inches minimum on top of the topsoil in all planting beds and over tree planting pits. The finished grade of the mulch shall be as follows:
   A. Two (2) inches below the surface or finished grade of any paving, mowstrips, or walks adjacent to the planting area.
   B. One (1) inch below top of metal edging.
   C. In tree pits, the mulch shall be kept six (6) inches away from the base of the tree.
   D. Just prior to placement of the mulch, the Contractor shall treat the mulched areas with a pre-emergent herbicide according to the manufacturer's recommendations.

15. One-step preparation and application of hydroseed mulch shall be as follows:
   A. The wood fiber mulch, seed, tackifier, fertilizer, and water shall be mixed together in a hydroseeding machine having a capacity of at least two thousand (2,000) gallons to allow for homogeneous slurry which is thoroughly mixed and can be applied easily without clogging. The machine shall be mounted on a traveling unit which is either self-propelled or drawn by a separate unit. Equipment used in the hydroseeding process shall be thoroughly cleaned of all seed and other materials used in any previous hydroseeding process, prior to hydroseeding on this project.
   B. The equipment shall have a built in agitation system and operating capacity sufficient to agitate, suspend, and homogeneously mix a slurry containing not less than fifty (50) pounds of organic mulching amendment plus chemical additives and solids for each one hundred (100) gallons of water.
   C. The slurry shall be prepared at the site and its components shall be mixed to supply the rates of application as specified. The slurry preparation shall begin by adding water to the tank when the engine is at one half (½) throttle. The engine throttle shall be open to full speed when the tank is one half (½) filled with water. All organic amendments, fiber, and chemicals shall then be added by the time the tank is two thirds (2/3) to three fourths (3/4) full. At this time and not before, the seed mix shall also be added. Spraying shall commence immediately when the tank is full and the slurry is mixed.
   D. Apply the hydroseed to form even appearing cover over the required areas. The slurry shall be applied in a downward drilling motion via a fan stream nozzle. It is important to ensure that all of the components enter and mix with the soil. Use only qualified and trained personnel to insure uniformity of the hydroseed applications.
   E. The hydroseeding slurry components shall not be left in the hydroseed machine for more than two (2) hours in order to avoid seed deterioration.

16. Throughout the course of planting, excess and waste materials as well as excavated subsoil shall be continuously and promptly removed. All areas shall be kept clear and all reasonable precautions taken to avoid damage to existing structures, plants, and grass. When planting has been completed in an area, it shall be thoroughly cleaned of all debris, rubbish, subsoil, and waste materials. These shall be removed from the property and disposed of legally. All planting tools shall also be put away.

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Print Date: 11/8/2021
Scale: AS NOTED

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Date:	Comments

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Revised:
Void:

HIGHWAY 6 MMOF
PLANTING NOTES

Designer: SB
Detailer: TS
Sheet Subset: LP
Structure Numbers
Subset Sheets: 1 of 8

Project No./Code
M021-004 / 23961
Drawing Number LP-601
Sheet Number 67 of 84

Plot Date:11/8/2021 2:13 PM Plotted By: Matthew Filla
Date Created:10/11/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_LP-10X.DWG

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
	19	Gleditsia triacanthos inermis `Shademaster`	Shademaster Honey Locust	B & B	3.5"
	35	Juniperus scopulorum `Moonglow`	Moonglow Juniper	25 gal	6`-8` H
	20	Pinus aristata	Bristlecone Pine	25 gal	4`-6` H

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT
	48	Chrysothamnus nauseosus	Rubber Rabbitbrush	5 gal
	59	Ephedra viridis	Mormon Tea	5 gal
	205	Juniperus horizontalis `Blue Chip`	Blue Chip Juniper	5 Gal
	382	Lavandula angustifolia `Hidcote Blue`	Hidcote Blue English Lavender	2 gal
	42	Perovskia atriplicifolia	Russian Sage	2 gal
	12	Picea pungens `Globe`	Dwarf Globe Green Spruce	5 gal
	88	Pinus mugo `Jezek`	Hedgehog Mugo Pine	5 gal
	50	Prunus besseyi `P011S` TM	Pawnee Buttes Sand Cherry	2 gal
	69	Rosa David Austin `Auslea`	Leander Rose	5 gal
	151	Salvia officinalis `Purpurascens`	Purple Common Sage	2 gal
	22	Yucca filamentosa	Adam`s Needle	5 gal

PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	CONT
	93	Allium x `Summer Beauty`	Summer Beauty Ornamental Onion	Bulb
	114	Artemisia schmidtiana `Silver Mound`	Silver Mound Artemisia	1 gal
	83	Santolina rosmarinifolia	Green Lavender Cotton	1 gal

VINE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	18	Parthenocissus quinquefolia engelmannii	Engelmann Virginia Creeper	5 gal

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Print Date: 11/8/2021
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Phone: (970) 208-8508

Sheet Revisions

Date:	Comments	

175 East Third Street
Palisade, CO 81526
Phone: (970) 464-1116

COLORADO Department of Transportation

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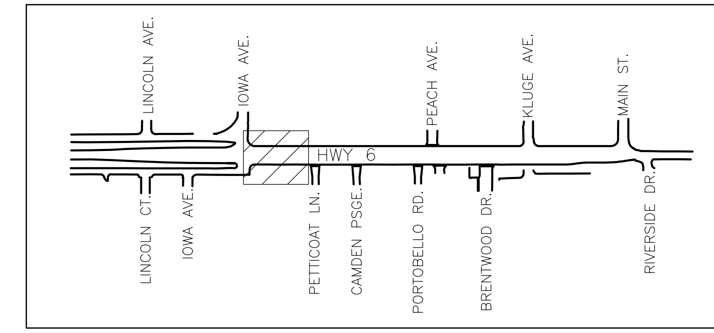
HIGHWAY 6 MMOF
PLANTING SCHEDULE

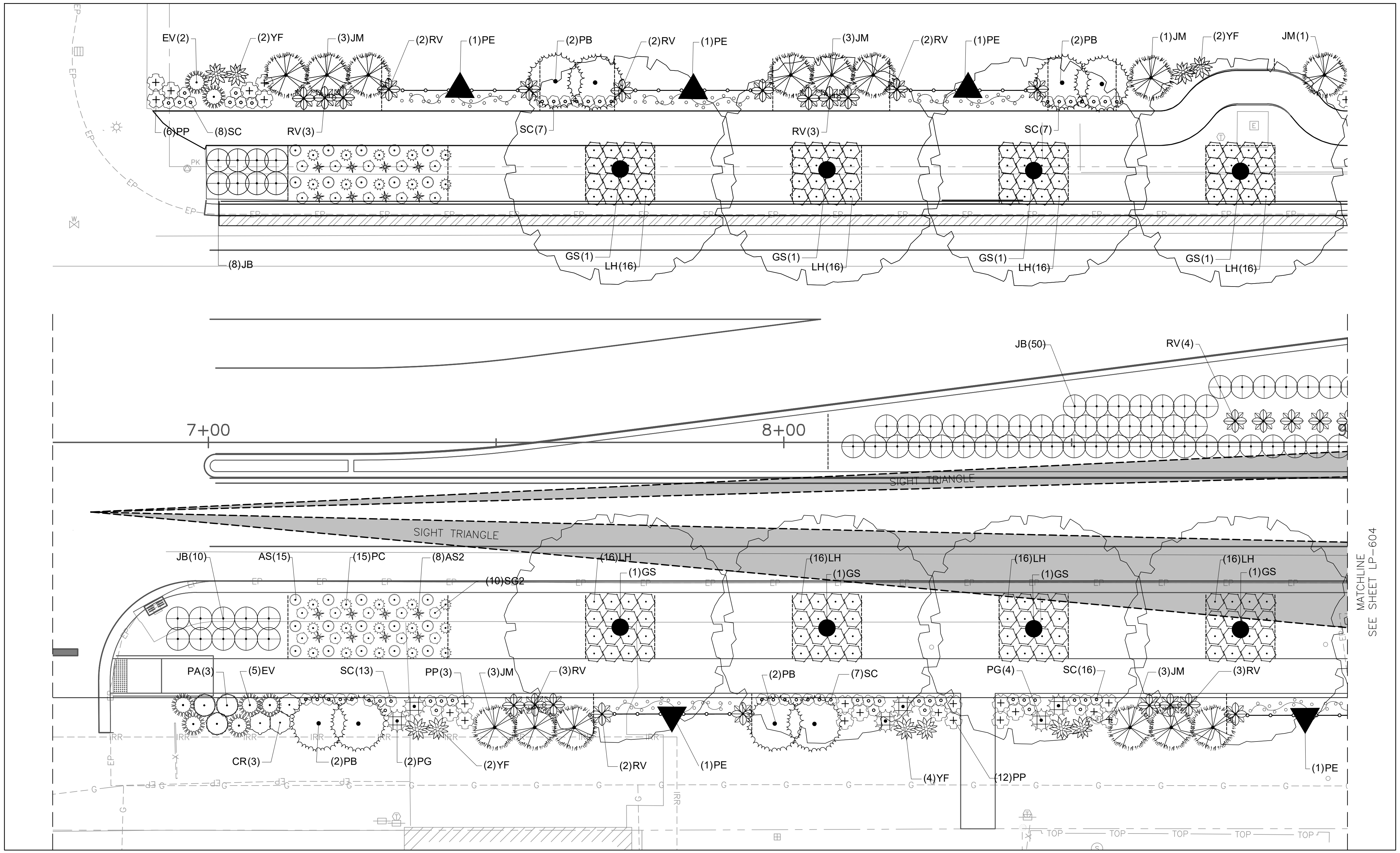
Designer: SB
Detailer: TS
Sheet Subset: LP
Structure Numbers
Subset Sheets: 2 of 8

Project No./Code
M021-004 / 23961
Drawing Number LP-602
Sheet Number 68 of 84



PLANT SCHEDULE LP-101

TREES	QTY	COMMON NAME	CONT	SIZE
GS	8	Shademaster Honey Locust	B & B	3.5"
JM	14	Moonglow Juniper	25 gal	6`-8`
PB	8	Bristlecone Pine	25 gal	4`-6`
SHRUBS	**QTY**	**COMMON NAME**	**CONT**	
CR	3	Rubber Rabbitbrush	5 gal	
EV	7	Mormon Tea	5 gal	
JB	69	Blue Chip Juniper	5 Gal	
LH	128	Hidcote Blue English Lavender	2 gal	
PA	3	Russian Sage	2 gal	
PG	6	Dwarf Globe Green Spruce	5 gal	
PC	25	Hedgehog Mugo Pine	5 gal	
PP	22	Pawnee Buttes Sand Cherry	2 gal	
RV	25	Leander Rose	5 gal	
SC	58	Purple Common Sage	2 gal	
YF	10	Adam`s Needle	5 gal	
PERENNIALS	**QTY**	**COMMON NAME**	**CONT**	
AS2	16	Summer Beauty Ornamental Onion	Bulb	
AS	25	Silver Mound Artemisia	1 gal	
SG2	20	Green Lavender Cotton	1 gal	
VINE	**QTY**	**COMMON NAME**	**CONT**	
PE	5	Engelmann Virginia Creeper	5 gal	



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Print Date: 11/8/2021
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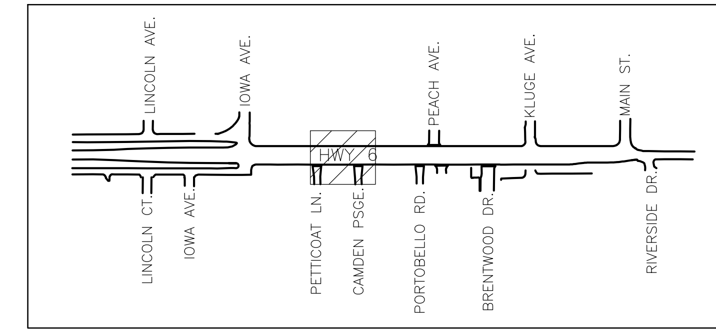
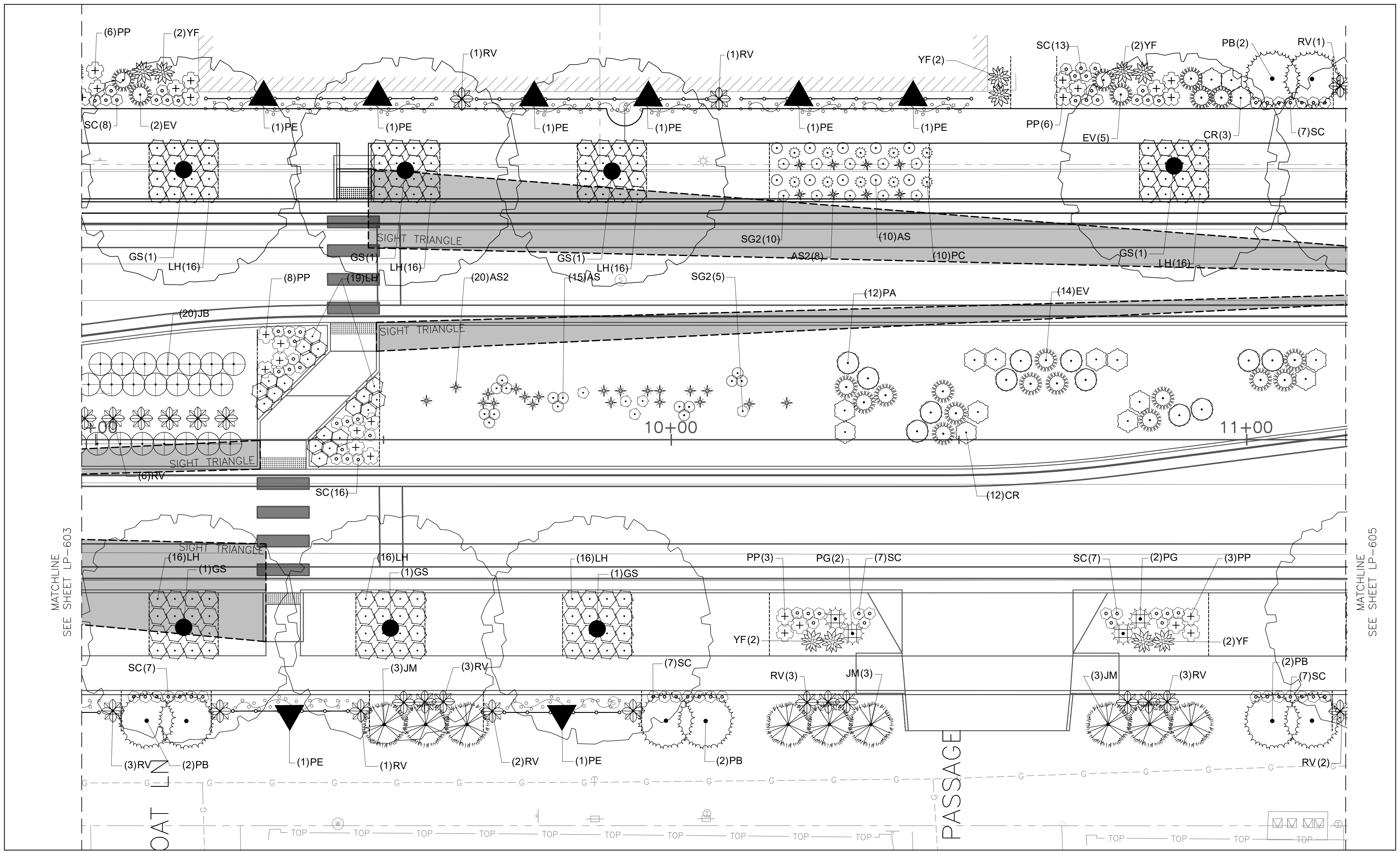
HIGHWAY 6 MMOF
PLANTING PLAN

Designer: SB
Detailer: TS
Sheet Subset: LP
Structure Numbers
Subset Sheets: 3 of 8

Project No./Code
M021-004 / 23961
Drawing Number LP-603





PLANT SCHEDULE LP-102

TREES	QTY	COMMON NAME	CONT	SIZE
GS	7	Shademaster Honey Locust	B & B	3.5"
JM	9	Moonglow Juniper	25 gal	6`-8` H
PB	8	Bristlecone Pine	25 gal	4`-6` H

SHRUBS	QTY	COMMON NAME	CONT
CR	15	Rubber Rabbitbrush	5 gal
EV	21	Mormon Tea	5 gal
JB	21	Blue Chip Juniper	5 Gal
LH	131	Hidcote Blue English Lavender	2 gal
PA	12	Russian Sage	2 gal
PG	4	Dwarf Globe Green Spruce	5 gal
PC	10	Hedgehog Mugo Pine	5 gal
PP	25	Pawnee Buttes Sand Cherry	2 gal
RV	24	Leander Rose	5 gal
SC	79	Purple Common Sage	2 gal
YF	10	Adam`s Needle	5 gal

PERENNIALS	QTY	COMMON NAME	CONT
AS2	28	Summer Beauty Ornamental Onion	Bulb
AS	25	Silver Mound Artemisia	1 gal
SG2	15	Green Lavender Cotton	1 gal

VINE	QTY	COMMON NAME	CONT
PE	8	Engelmann Virginia Creeper	5 gal

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SCALE IN FEET

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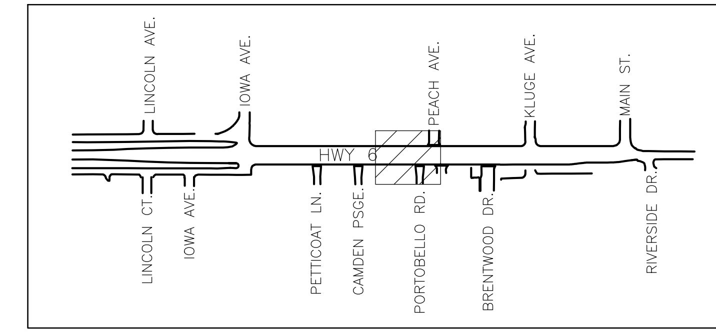
HIGHWAY 6 MMOF
PLANTING PLAN

Designer: SB
Detailer: TS
Sheet Subset: LP
Structure Numbers
Subset Sheets: 4 of 8

Project No./Code
M021-004 / 23961
Drawing Number LP-604
Sheet Number 70 of 84



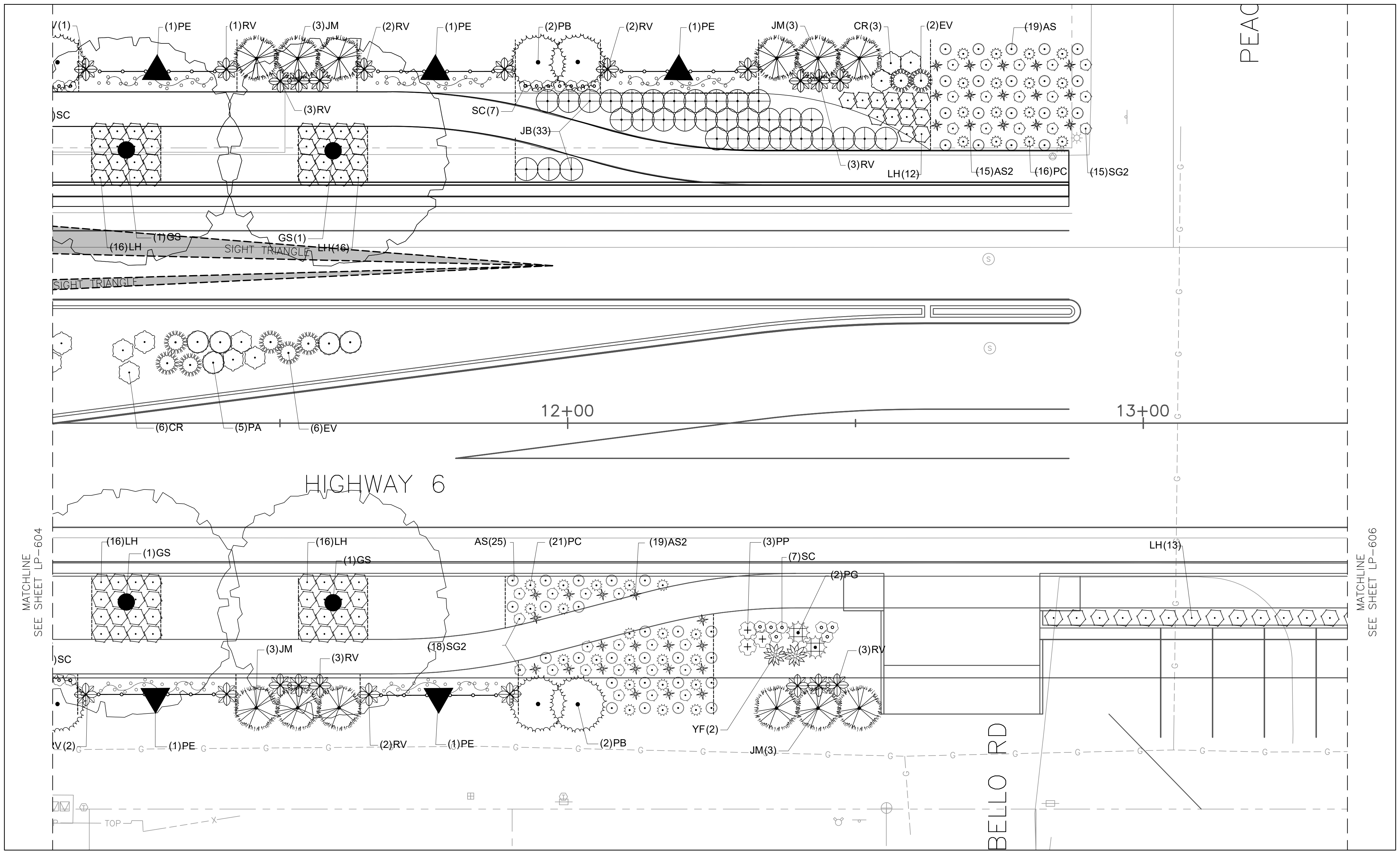
PLANT SCHEDULE LP-103

TREES	QTY	COMMON NAME	CONT	SIZE
GS	4	Shademaster Honey Locust	B & B	3.5"
JM	12	Moonglow Juniper	25 gal	6`-8` H
PB	4	Bristlecone Pine	25 gal	4`-6` H

SHRUBS	QTY	COMMON NAME	CONT
CR	9	Rubber Rabbitbrush	5 gal
EV	8	Mormon Tea	5 gal
JB	33	Blue Chip Juniper	5 Gal
LH	89	Hidcote Blue English Lavender	2 gal
PA	5	Russian Sage	2 gal
PG	2	Dwarf Globe Green Spruce	5 gal
PC	37	Hedgehog Mugo Pine	5 gal
PP	3	Pawnee Buttes Sand Cherry	2 gal
RV	20	Leander Rose	5 gal
SC	14	Purple Common Sage	2 gal
YF	2	Adam`s Needle	5 gal

PERENNIALS	QTY	COMMON NAME	CONT
AS2	34	Summer Beauty Ornamental Onion	Bulb
AS	44	Silver Mound Artemisia	1 gal
SG2	33	Green Lavender Cotton	1 gal

VINE	QTY	COMMON NAME	CONT
PE	5	Engelmann Virginia Creeper	5 gal



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HIGHWAY 6 MMOF
PLANTING PLAN

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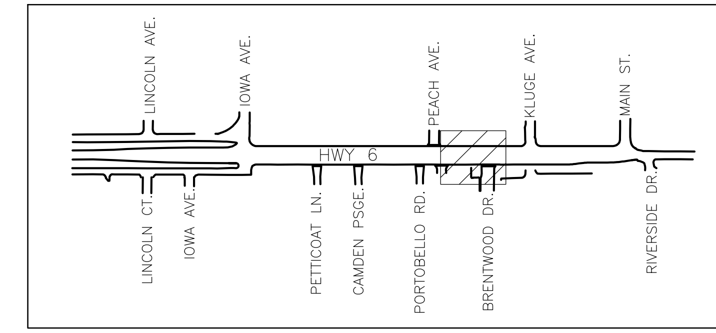
Sheet Subset: LP
Structure Numbers
Subset Sheets: 5 of 8

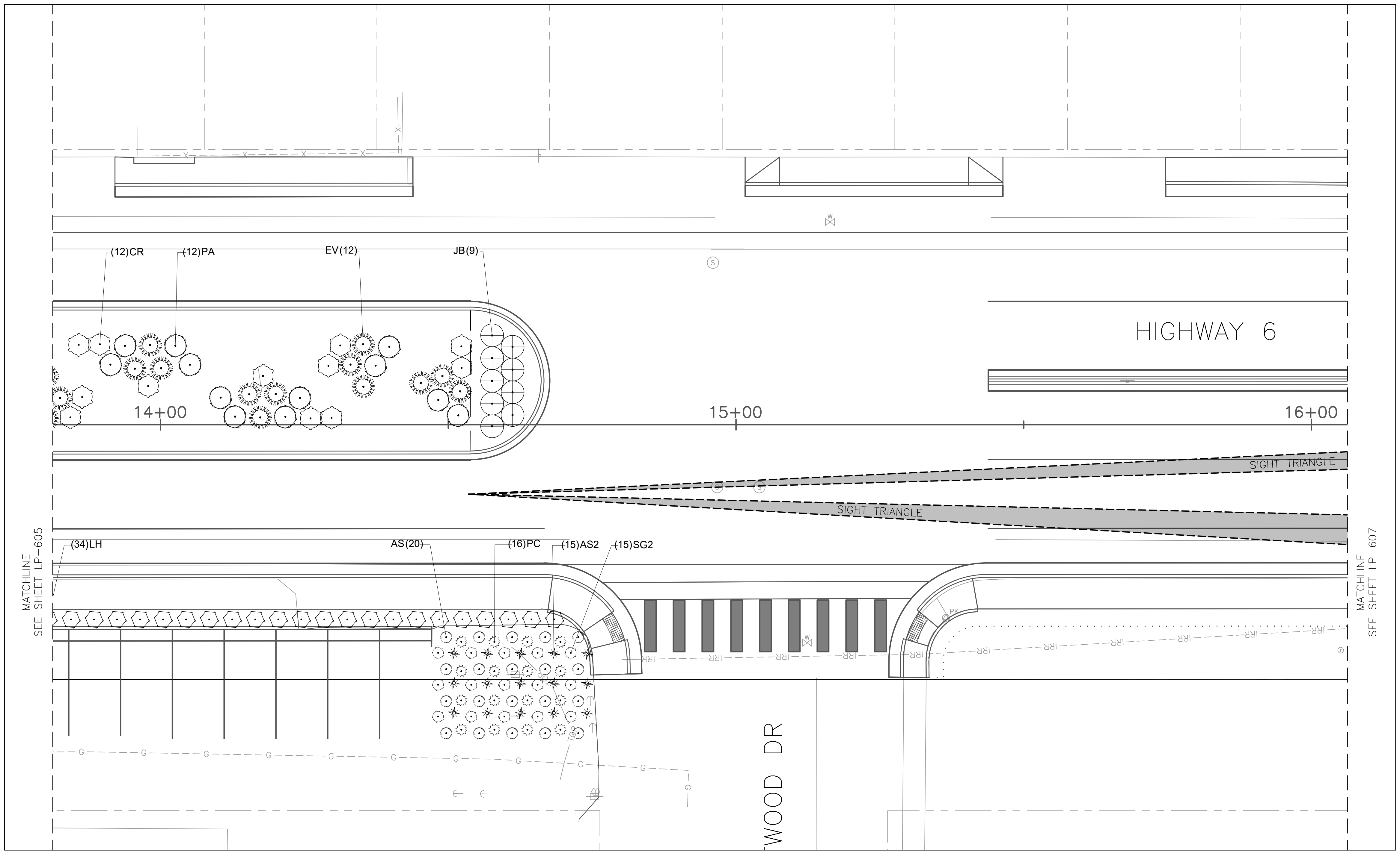
Project No./Code
M021-004 / 23961
Drawing Number LP-605
Sheet Number 71 of 84



PLANT SCHEDULE LP-104

SHRUBS	QTY	COMMON NAME	CONT
CR	14	Rubber Rabbitbrush	5 gal
EV	18	Mormon Tea	5 gal
JB	18	Blue Chip Juniper	5 Gal
LH	34	Hidcote Blue English Lavender	2 gal
PA	16	Russian Sage	2 gal
PC	16	Hedgehog Mugo Pine	5 gal

PERENNIALS	QTY	COMMON NAME	CONT
AS2	15	Summer Beauty Ornamental Onion	Bulb
AS	20	Silver Mound Artemisia	1 gal
SG2	15	Green Lavender Cotton	1 gal



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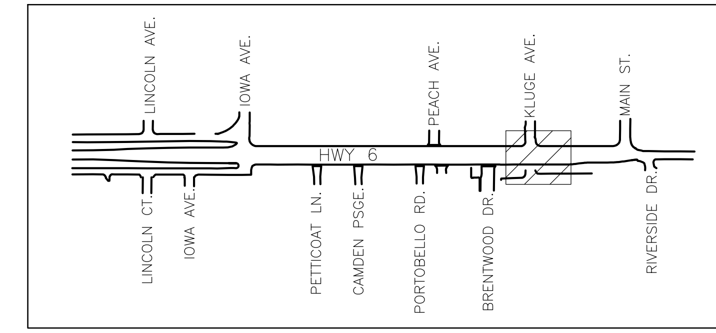
HIGHWAY 6 MMOF
PLANTING PLAN

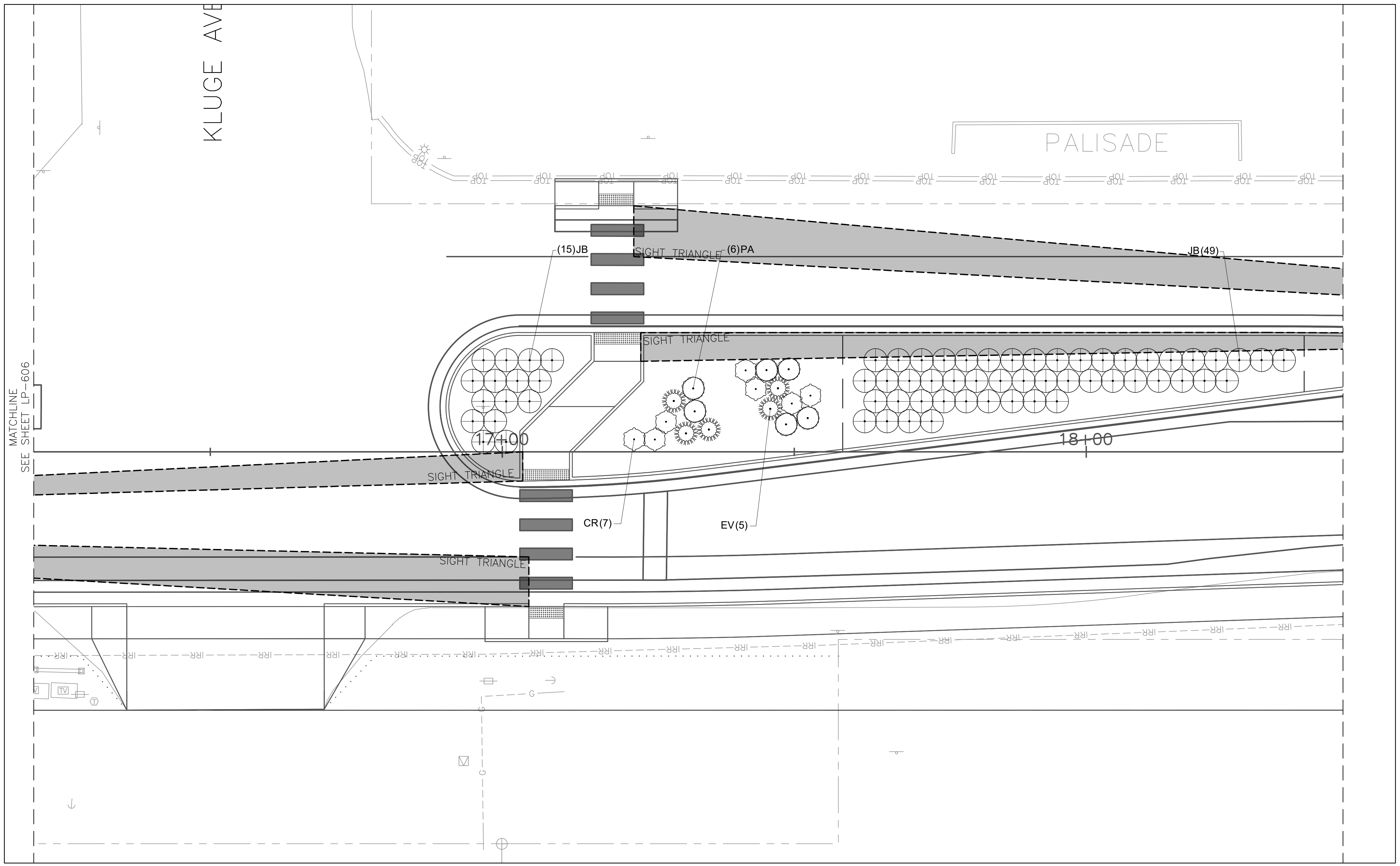
Designer: SB
Detailer: TS
Sheet Subset: LP
Structure Numbers
Subset Sheets: 6 of 8

Project No./Code
M021-004 / 23961
Drawing Number LP-606
Sheet Number 72 of 84



PLANT SCHEDULE LP-105

SHRUBS	QTY	COMMON NAME	CONT
CR	7	Rubber Rabbitbrush	5 gal
EV	5	Mormon Tea	5 gal
JB	64	Blue Chip Juniper	5 Gal
PA	6	Russian Sage	2 gal



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HIGHWAY 6 MMOF
PLANTING PLAN

Designer: SB
Detailer: TS
Sheet Subset: LP
Structure Numbers
Subset Sheets: 7 of 8

Project No./Code
M021-004 / 23961
Drawing Number LP-607
Sheet Number 73 of 84

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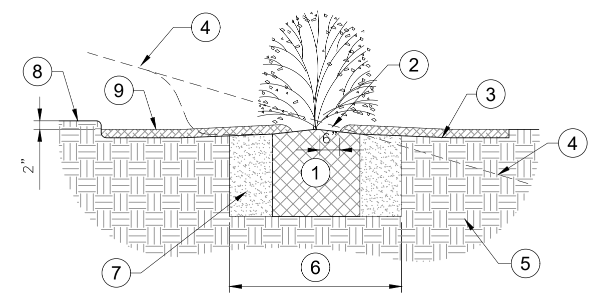
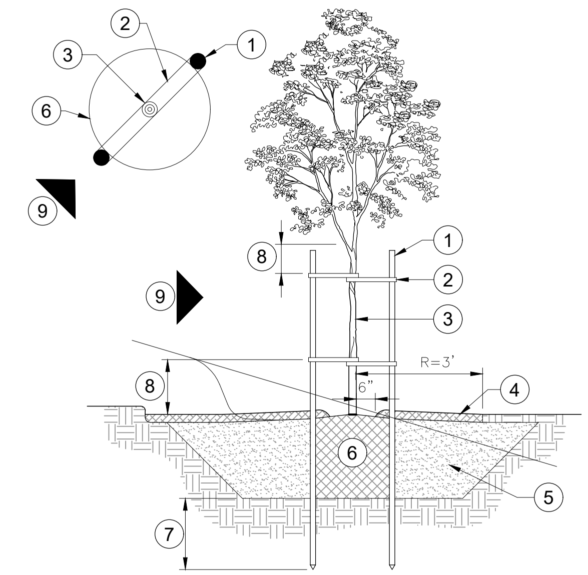


1. ROOT BALL
2. CROWN – AT FINISHED GRADE
3. FINISHED GRADE
4. FINISHED GRADE AT SLOPE (WHERE OCCURS)
5. UNDISTURBED SOIL
6. 2X ROOTBALL DIA. MIN.
7. BACKFILL MIX (SEE PLANTING NOTES)
8. TOP OF PAVING (WHERE APPLICABLE)
9. 3" LAYER OF MULCH

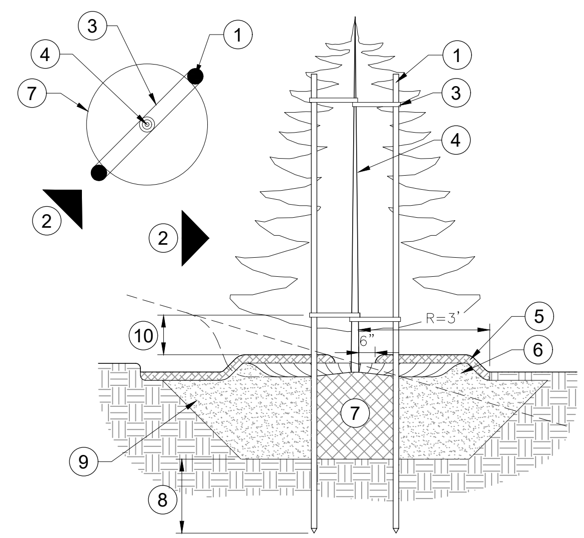
2 PERENNIAL PLANTING
NTS



1. 2" DIA. OR 2" x 2" SQ. x 10' STRAIGHT WOODEN STAKE (2 REQUIRED)
2. V.I.T. CINCH-TIE VINYL TREE TIE (2 PER STAKE, LENGTH AS REQUIRED). SECURE TO STAKE W/ GALV. NAIL. 1 (PER TIE)
3. TREE TRUNK
4. 3" LAYER MULCH AROUND EACH TREE (3' RADIUS CIRCLE WHEN IN TURF)
5. SEE TREE/SHRUB PLANTING DETAIL
6. ROOT BALL
7. 24" MIN.
8. 6" MAX.
9. PREVAILING WIND DIRECTION

3 DECIDUOUS TREE STAKING
NTS

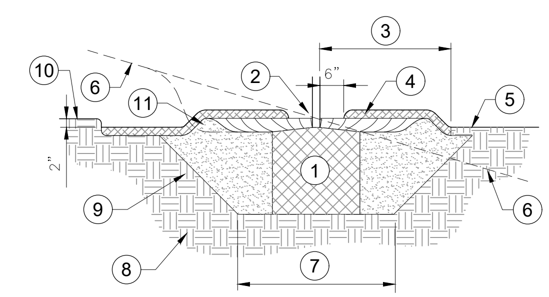
JUB-PL-TRE-01



1. 2" DIA. OR 2"X2" SQ. X 10' STRAIGHT WOODEN STAKE (2 REQUIRED)
2. PREVAILING WIND DIRECTION
3. V.I.T. CINCH-TIE VINYL TREE TIE (2 PER STAKE, LENGTH AS REQUIRED). SECURE TO STAKE W/ GALV. NAIL. 1 PER TIE
4. TREE TRUNK
5. 3" LAYER SHREDDED BARK MULCH AROUND EACH TREE (3' RADIUS CIRCLE WHEN IN TURF)
6. WATERING BASIN – SEE TREE/SHRUB PLANTING DETAIL
7. ROOTBALL
8. 24" MIN
9. SEE TREE/SHRUB PLANTING DETAIL
10. 18" MAX.

NOTE: STAKES SHALL BE REMOVED AFTER ONE COMPLETE GROWING SEASON.

4 EVERGREEN TREE STAKING W/ WATERING BASIN
NTS



1. ROOTBALL
2. CROWN – APPROXIMATELY 1" ABOVE FINISH GRADE
3. 3' RADIUS CIRCLE OF SHREDDED BARK MULCH WHEN TREE IS LOCATED IN TURF
4. 3" LAYER OF MULCH
5. FINISHED GRADE
6. FINISHED GRADE AT SLOPE (WHERE SLOPE OCCURS)
7. 2X ROOTBALL DIA. MIN. W/ 45 DEGREE SIDES
8. UNDISTURBED SOIL
9. BACKFILL MIX (SEE PLANTING NOTES)
10. TOP OF PAVING (WHERE APPLICABLE)
11. 3" HIGH WATERING BASIN

5 TREE/SHRUB PLANTING W/ WATERING BASIN
NTS

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Palisade, CO 81526
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HIGHWAY 6 MMOF
PLANTING DETAILS

Designer: SB
Detailer: TS
Sheet Subset: LP
Structure Numbers
Subset Sheets: 8 of 8

Project No./Code
M021-004 / 23961
Drawing Number LP-608
Sheet Number 74 of 84

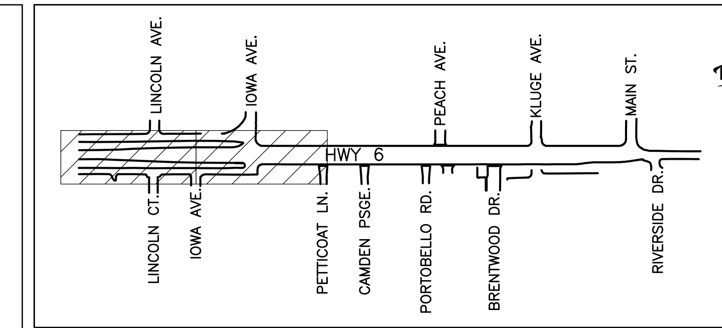
PAVEMENT MARKING TABULATION

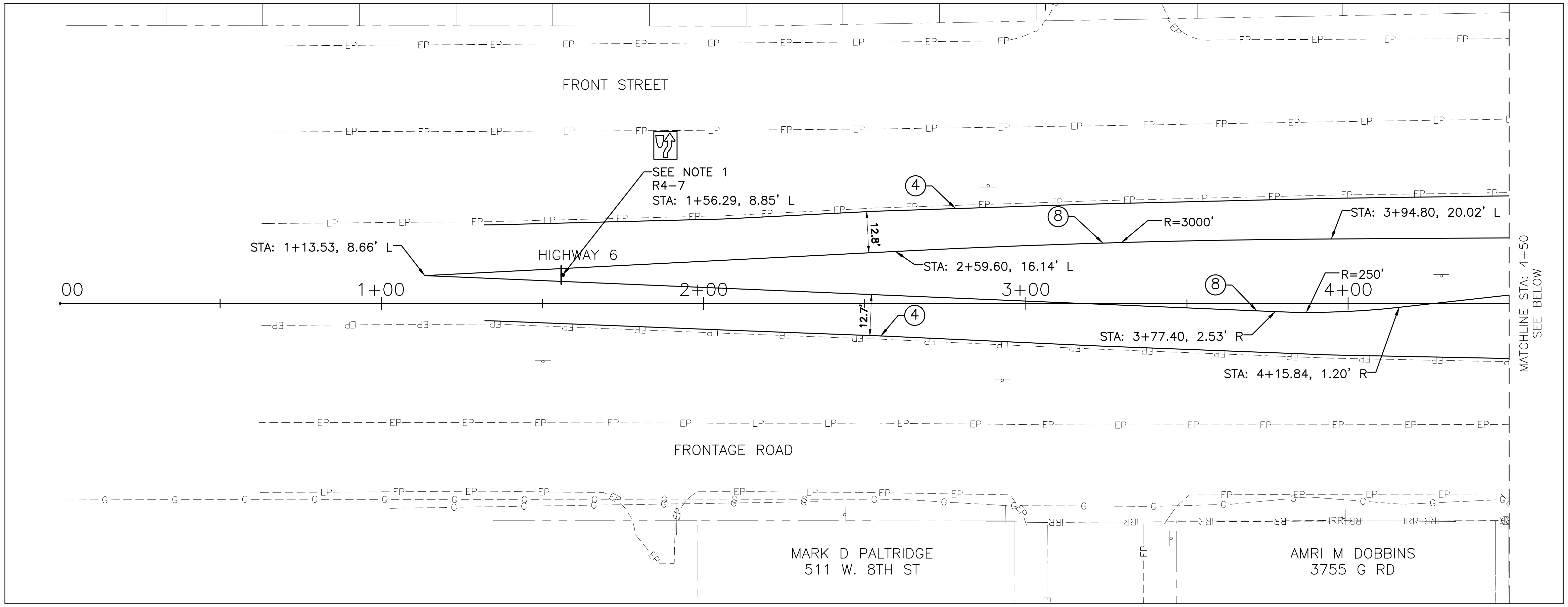
STATION/LOCATION	PAVEMENT MARKING PAINT (HIGH BUILD)					PAVEMENT PARKING PAINT (XWALK–STOP LINE) (2'x9') (HIGH BUILD)	PAVEMENT MARKING PAINT (WORD–SYMBOL) (HIGH BUILD)	PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK–STOP LINE)(SPECIAL)	
	EDGE LINE WHITE 6 INCH (SF)	EDGE LINE YELLOW 4 INCH (SF)	CHANNELIZING LINES WHITE 8 INCH (SF)	DOUBLE LANE LINES YELLOW 4 INCH W/ 4 INCH GAP (SF)	BIKE LINE WHITE 6 INCH (SF)	MID BLOCK STRIPE WHITE 2'x9' W/ 4' GAP (SF)	ARROW SYMBOL (SF)	MID BLOCK STRIPE WHITE 2'x9' W/ 4' GAP (SF)	STOP LINE WHITE 24 INCH (SF)
STA. 1+32.02, 24.38' L TO STA. 6+19.64, 34.19' L	244.0								
STA. 1+32.15, 5.36' R TO STA. 6+19.69, 18.84' R	244.0								
STA. 1+13.53, 8.66' L TO STA. 6+17.70, 17.38' L		2		336					
STA. 2+35.80, 9.40' L TO STA. 6+19.71, 19.44' L									
STA. 5+16.03, 5.06' R TO STA. 6+17.8, 2.4' L			135.9						
STA. 7+00.30, 21.40' L TO STA. 8+06.38, 21.4' L			141.2						
STA. 7+00.30, 33.41' L TO STA. 12+87.09, 33.35' L					288.0				
STA. 6+62.25, 35.89' R TO STA 6+77.3, 37.06' R									17.6
STA. 7+00.30, 6.08' R TO STA. 12+87.09, 17.42' L		394.0							
STA. 7+00.30, 18.08' R TO STA. 14+66.64, 18.09' R					378.0				
STA. 9+28.07, 23.61' R TO STA. 9+49.28, 38.91' L						144.0			
STA. 11+80.52, 6.14' R TO STA. 12+87.12, 2.43' L			142.5						
STA. 13+48.86, 33.43' L TO STA. 16+19.05, 33.44' L					135.0				
STA. 15+43.83, 21.43' L TO STA. 16+19.05, 21.43' L			50.0						
STA. 15+43.83, 9.19' L TO STA. 16+19.05, 9.19' L		25.0							
STA. 15+43.83, 6.18' L TO STA. 16+19.05, 6.18' L		25.0							
STA. 15+43.83, 6.03' R TO STA. 16+19.05, 6.03' R			50.0						
STA. 13+61.64, 21.43' L TO STA. 14+53.87, 21.43' L		31.0							
STA. 13+61.33, 6.13' R TO STA. 14+53.88, 6.10' R		31.0							
STA 14+75, 24.3' R TO STA 15+28, 30.3' R								162	
STA. 15+43.83, 18.07' R TO STA. 20+25.64, 8.64' R					241.0				
STA. 17+02.92, 21.44' L TO STA. 19+34.59, 16.48' L		78.0							
STA. 17+03.00, 6.01' R TO STA. 19+34.49, 13.98' L		78.0							
STA. 16+90.50, 33.44' L TO STA. 19+38.27, 33.45' L					119.0				
STA. 18+40.46, 5.97' R TO STA. 19+34.49, 0.98' R			116.2						
STA. 17+02.98, 23.54' R TO STA. 17+24.24, 39.03' L						144.0			
STA. 5+10.23, 0.15' L							16.1		
STA. 11+74.53, 0.26' L							16.1		
STA. 8+03.67, 14.91' L							16.1		
STA. 15+68.31, 3.02' L							16.1		
STA. 15+94.41, 13.91' L							16.1		
STA. 18+38.88, 1.12' L							16.1		
PROJECT TOTALS	488	664	636	336	1161	288	96.6	162	17.6
TOTAL GALLONS @ 67 SF/GAL	8	10	10	6	18	–	–	–	–

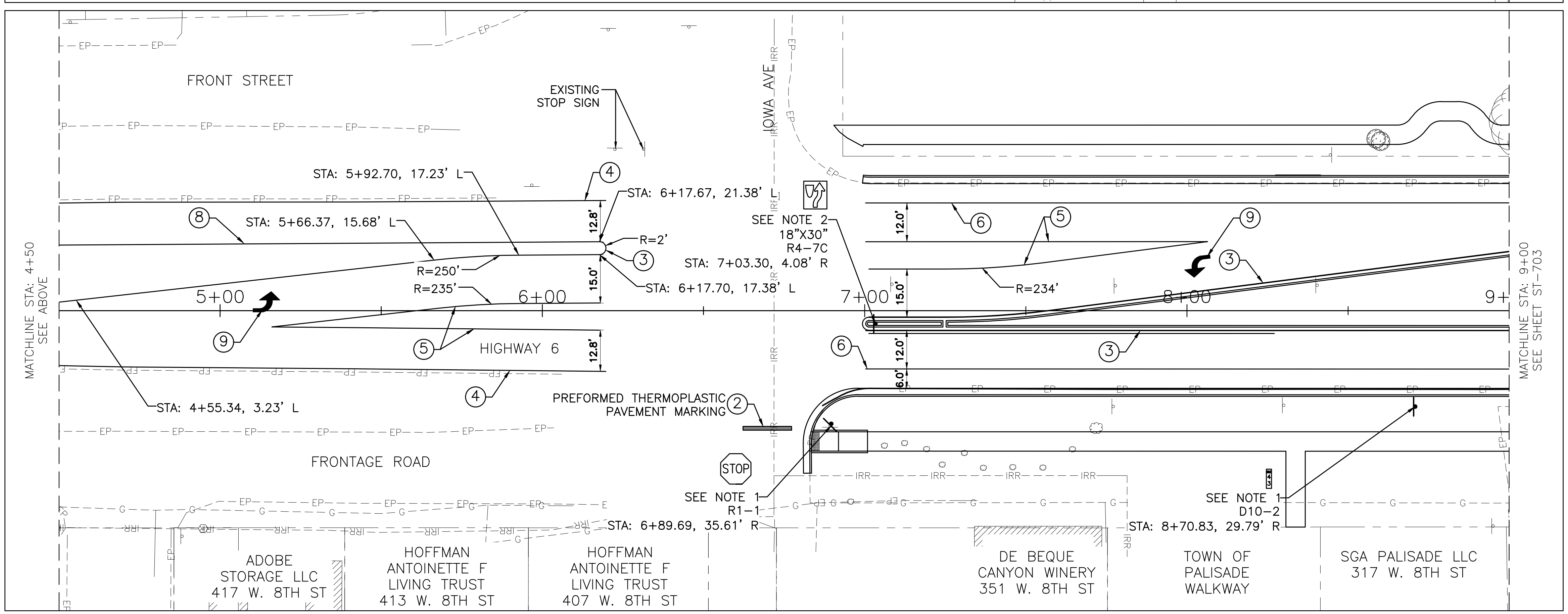
SIGNING TABULATION

STATION/LOCATION	SIGN CODE	SIGN DESCRIPTION	SIGN DIMENSION (INCH)		PANEL SIZE CLASS I (SF)	NUMBER OF POSTS	LENGTH OF POST (LF)	COMMENTS
			W	H				
US HIGHWAY 6								
STA. 1+56.29, 8.85' L	R4–7	KEEP RIGHT	EXISTING		EXISTING	–	12.0	REUSE EXISTING SIGN AND POST
STA. 6+89.69, 35.61' R	R1–1	STOP	EXISTING		EXISTING	–	12.0	REUSE EXISTING SIGN AND POST
STA. 7+03.30, 4.08' R	R4–7C	KEEP RIGHT	18	30	3.80	1	12.0	USE NEW SIGN AND POST
STA. 9+37.41, 2.11' R	W11–2	WALK W/ FLASHING BEACON AND RIGHT ARROW	EXISTING		EXISTING	1	12.0	REUSE EXISTING SIGN AND BEACON, INSTALL NEW POST AND PUSH BUTTON
STA. 9+39.95, 17.40' L	W11–2	WALK W/ FLASHING BEACON AND RIGHT ARROW	EXISTING		EXISTING	1	12.0	REUSE EXISTING SIGN AND BEACON, INSTALL NEW POST AND PUSH BUTTON
STA. 9+36.41, 29.11' R	W11–2	WALK W/ FLASHING BEACON AND LEFT ARROW	EXISTING		EXISTING	–	12.0	REUSE EXISTING SIGN, BEACON, POST, AND PUSH BUTTON
STA. 9+41.04, 44.44' L	W11–2	WALK W/ FLASHING BEACON AND LEFT ARROW	EXISTING		EXISTING	–	12.0	REUSE EXISTING SIGN, BEACON, POST, AND PUSH BUTTON
STA. 8+70.83, 29.79' R	D10–2	MILE MARKER 43	EXISTING		EXISTING	–	5.5	REUSE EXISTING SIGN, COMBINED ON ONE POST
	D10–2	MILE MARKER 43	EXISTING		EXISTING			
STA. 12+85.09, 19.42' L	R4–7C	KEEP RIGHT	18	30	3.8	1	12.0	USE NEW SIGN AND POST
STA. 13+78.48, 34.13' R	R8–3	NO PARKING	EXISTING		EXISTING	–	12.0	REUSE EXISTING SIGN AND POST
STA. 15+68.42, 34.06' R	R2–1	35 MPH SPEED LIMIT	EXISTING		EXISTING	–	12.0	REUSE EXISTING SIGN AND POST
STA. 15+35.52, 41.14' R	R1–1	STOP	EXISTING		EXISTING	–	12.0	REUSE EXISTING SIGN AND POST
STA. 15+45.53, 7.68' L	–	RAISED PAVEMENT MARKER	–	–	–	1	–	USE NEW MARKER
STA. 16+05.63, 7.70' L	–		–	–	–	1	–	USE NEW MARKER
STA. 17+10.55, 32.84' R	W11–2	WALK W/ FLASHING BEACON AND LEFT ARROW	EXISTING		EXISTING	1	12.0	RESUSE EXISTING SIGN AND BEACON, USE NEW POST AND PUSH BUTTON
STA. 17+16.52, 47.11' L	W11–2	WALK W/ FLASHING BEACON AND LEFT ARROW	EXISTING		EXISTING	1	12.0	REUSE EXISTING SIGN AND BEACON, USE NEW POST AND PUSH BUTTON
STA. 17+12.34, 1.87' R	W11–2	WALK W/ FLASHING BEACON AND RIGHT ARROW	24	24	4.0	1	12.0	USE NEW SIGN, POST, BEACON, AND PUSH BUTTON
STA. 17+14.88, 17.44' L	W11–2	WALK W/ FLASHING BEACON AND RIGHT ARROW	24	24	4.0	1	12.0	USE NEW SIGN, POST, BEACON, AND PUSH BUTTON
STA. 18+99.12, 16.82' L	R4–7C	KEEP RIGHT	18	30	3.80	1	12.0	USE NEW SIGN AND POST
TOTALS					19.35	11	198	

Know what's below. Call before you dig.







KEYED NOTES

1. CENTER LINES, YELLOW, 4" WIDE WITH 4" GAP
2. STOP LINE, WHITE, 24" WIDE
3. EDGE LINE, YELLOW, 4" WIDE
4. EDGE LINE, WHITE, 6" WIDE
5. CHANNELIZING LINES, WHITE, 8" WIDE
6. BIKE LINE, WHITE, 6" WIDE
7. MID BLOCK STRIPE, WHITE, 2' X 9' WITH 4' GAP
8. DOUBLE YELLOW LANE LINES, YELLOW, 4" WIDE W/ 4' GAP
9. PAINT TURN ARROW PER CDOT M-STANDARD M-627-1
10. RAISED PAVEMENT MARKER

NOTES

1. REUSE EXISTING SIGN WHERE NOTED ON SHEETS RM-201 TO RM-203. ANY SIGNS DAMAGED DURING REMOVAL OR STORAGE SHALL BE REPLACED WITH NEW SIGNS MEETING CDOT/MUTCD STANDARDS.
2. INSTALL NEW POST
3. INSTALL NEW PUSH BUTTON ASSEMBLY
4. REWIRE AND CONNECT RECTANGULAR RAPID-FLASHING BEACON THROUGH CONDUIT PER CDOT S-614-14.
5. ALL STRIPING TO BE DONE WITH PAVEMENT MARKING PAINT, UNLESS OTHERWISE NOTED AS PREFORMED THERMOPLASTIC PAVEMENT MARKING.

0 20 40
SCALE IN FEET

N

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Plot Date:11/8/2021 2:15 PM Plotted By: Matthew Filla
Date Created:9/30/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEETS\81-20-015_ST-X0X.DWG

Print Date: 11/8/2021	Sheet Revisions		
Scale: 1"=40'	Date:	Comments	

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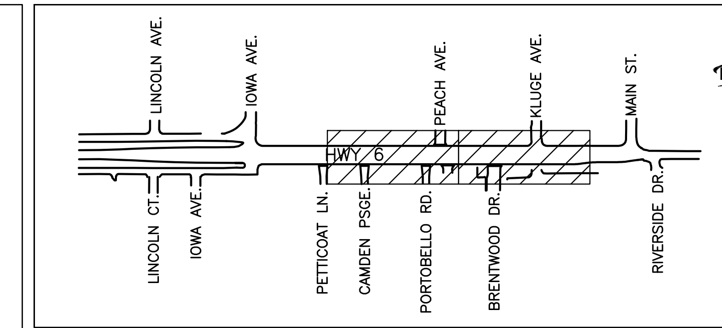
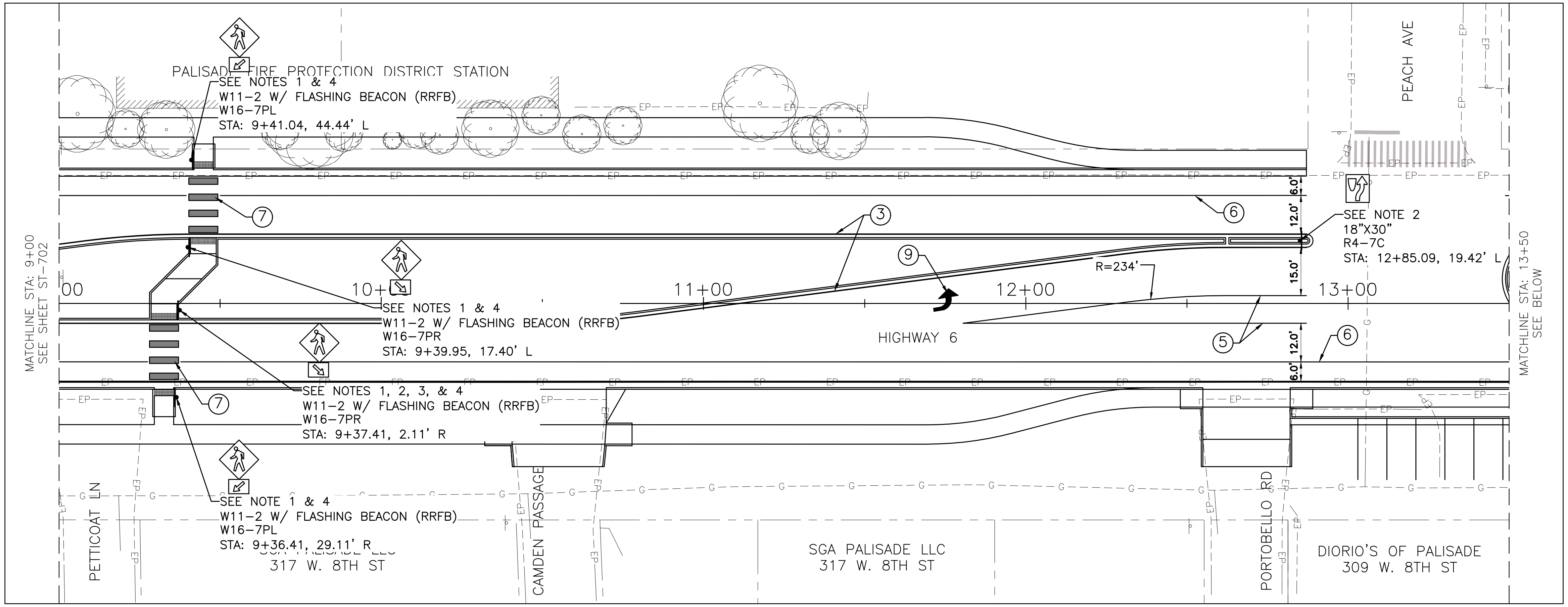
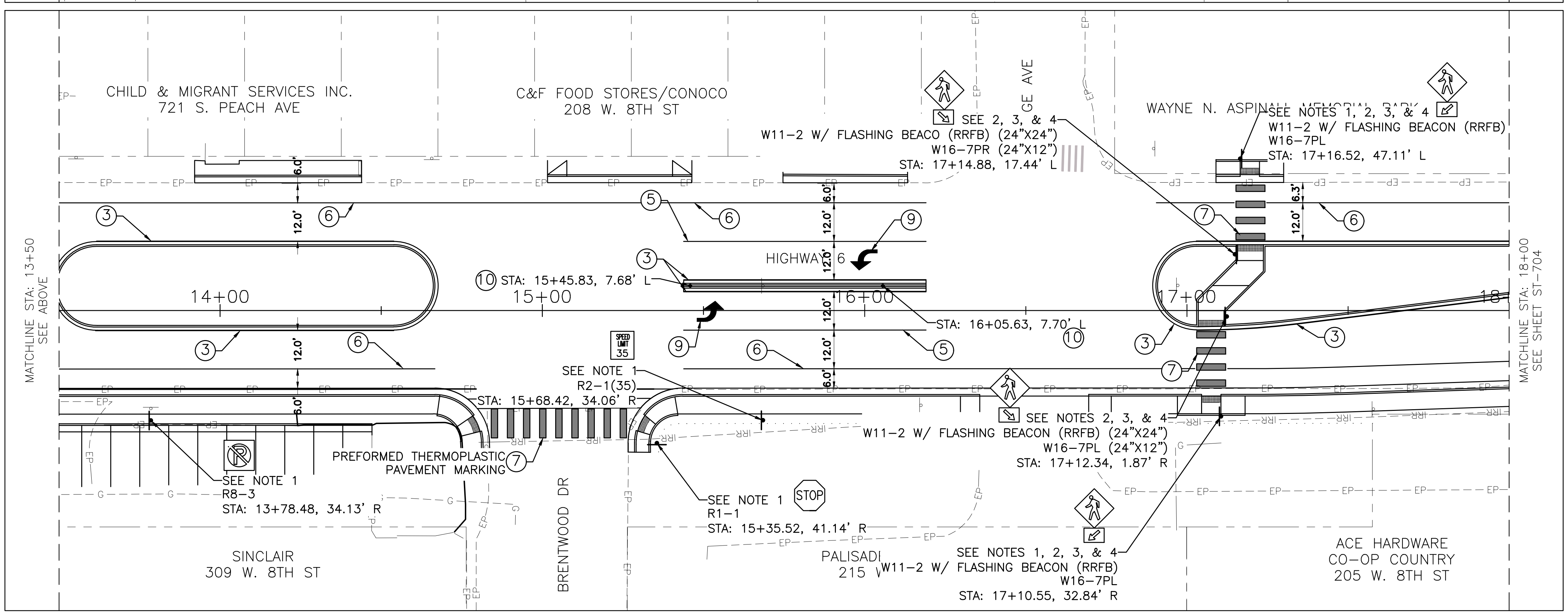
COLORADO Department of Transportation

Ad Set	HIGHWAY 6 MMOF SIGNING & STRIPING		Project No./Code
No Revisions:			M021-004 / 23961
Revised:	Designer: EWS	Structure Numbers	Drawing Number ST-702
	Detailer: MWF		
Void:	Sheet Subset: ST	Subset Sheets: 2 of 4	Sheet Number 76 of 84







KEYED NOTES

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8. DOUBLE YELLOW LANE LINES, YELLOW, 4" WIDE W/ 4' GAP
9. PAINT TURN ARROW PER CDOT M-STANDARD M-627-1
10. RAISED PAVEMENT MARKER

NOTES

1. REUSE EXISTING SIGN WHERE NOTED ON SHEETS RM-201 TO RM-203. ANY SIGNS DAMAGED DURING REMOVAL OR STORAGE SHALL BE REPLACED WITH NEW SIGNS MEETING CDOT/MUTCD STANDARDS.
2. INSTALL NEW POST
3. INSTALL NEW PUSH BUTTON ASSEMBLY
4. REWIRE AND CONNECT RECTANGULAR RAPID-FLASHING BEACON THROUGH CONDUIT PER CDOT S-614-14.
5. ALL STRIPING TO BE DONE WITH PAVEMENT MARKING PAINT, UNLESS OTHERWISE NOTED AS PREFORMED THERMOPLASTIC PAVEMENT MARKING.

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Scale: 1"=40'

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Sheet Revisions	
Date:	Comments

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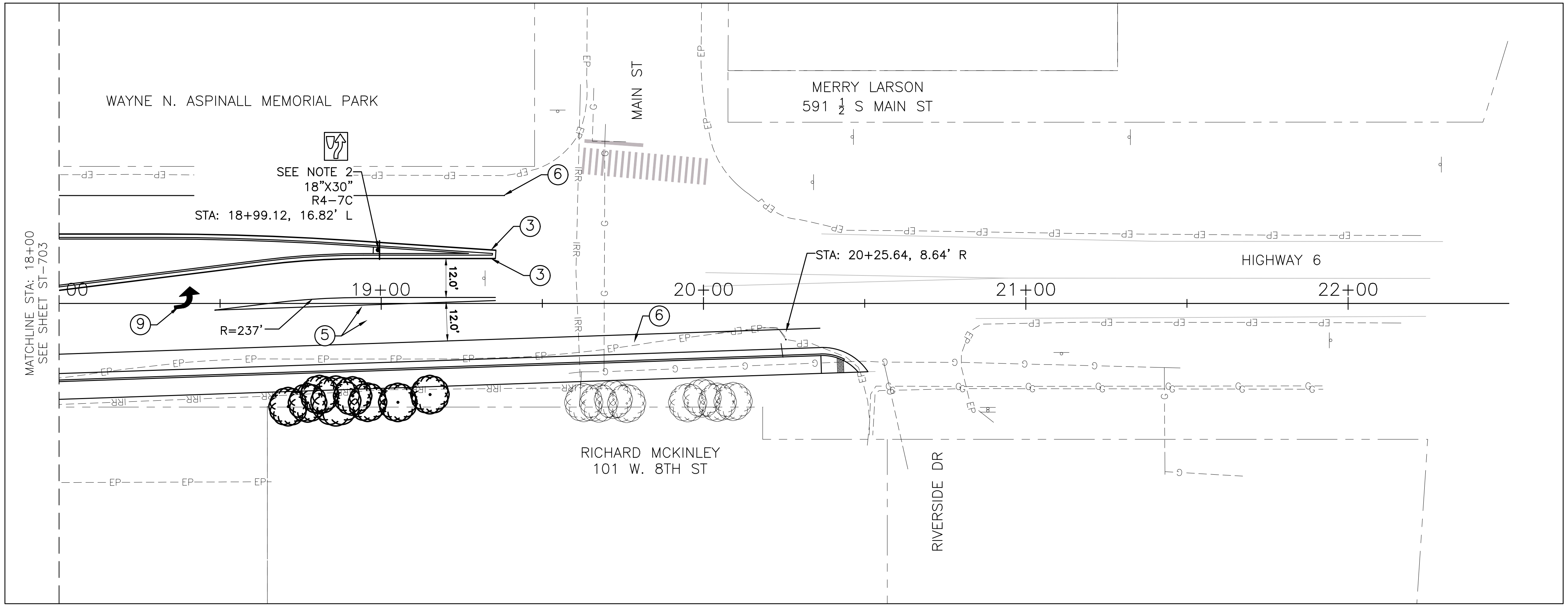
Ad Set
No Revisions:
Revised:
Void:

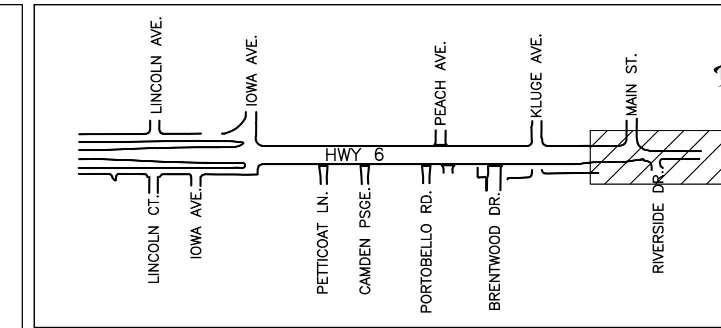
HIGHWAY 6 MMOF
SIGNING & STRIPING

Designer: EWS
Detailer: MWF
Sheet Subset: ST
Structure Numbers
Subset Sheets: 3 of 4

Project No./Code
M021-004 / 23961
Drawing Number ST-703
Sheet Number 77 of 84

Plot Date:11/8/2021 2:15 PM Plotted By: Matthew Filip
Date Created:9/30/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_ST-X0X.DWG





KEYED NOTES

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NOTES
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Date Created:9/30/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_ST-X0X.DWG

Print Date: 11/8/2021	Sheet Revisions		Ad Set
Scale: 1"=40'	Date:	Comments	No Revisions:
			Revised:
			Void:

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HIGHWAY 6 MMOF
SIGNING & STRIPING

Designer: EWS	Structure Numbers
Detailer: MWF	
Sheet Subset: ST	Subset Sheets: 4 of 4

Project No./Code
M021-004 / 23961
Drawing Number ST-704

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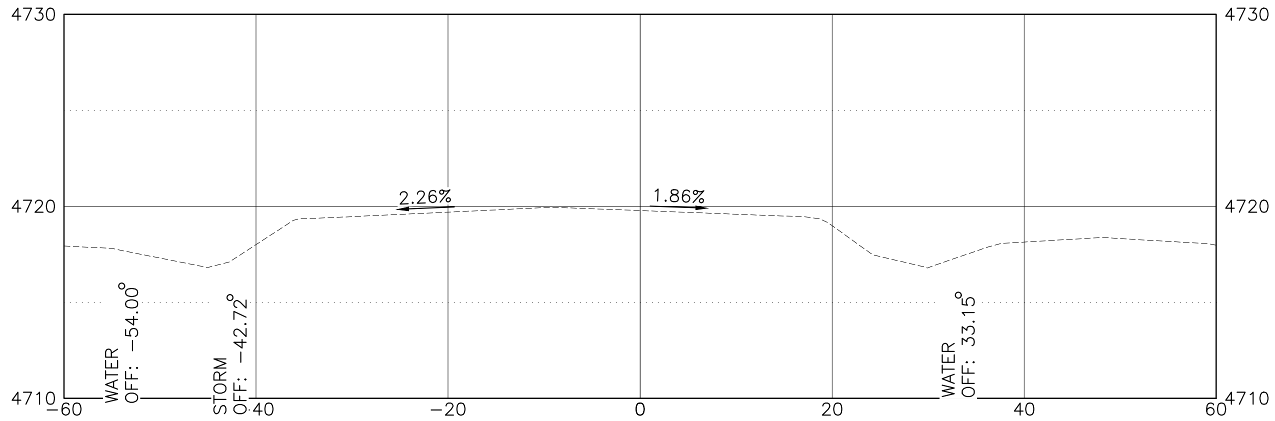

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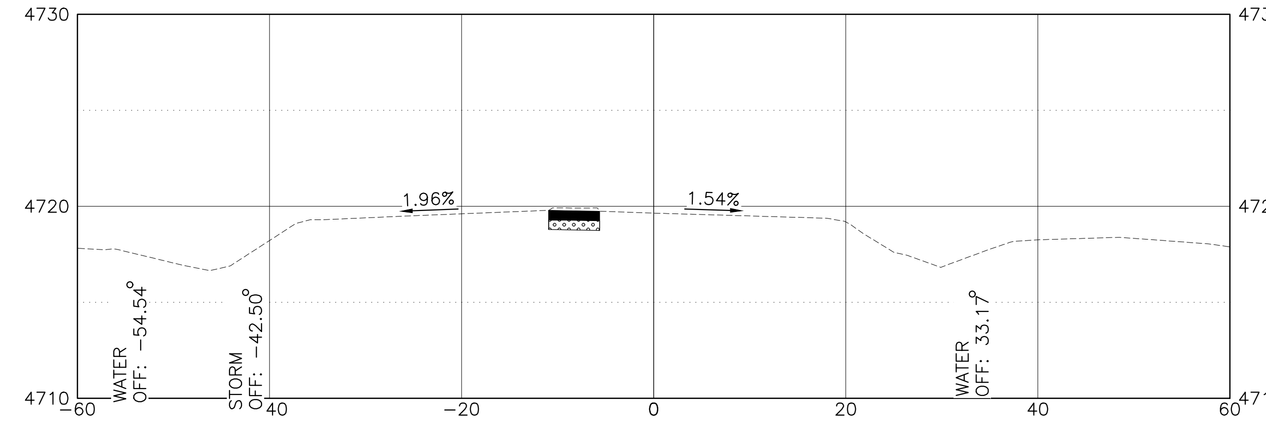

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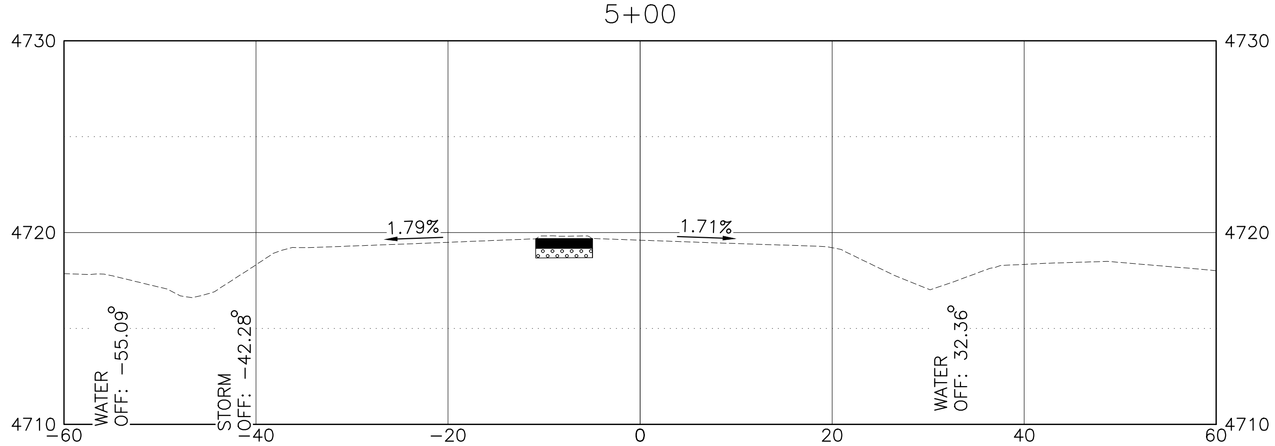

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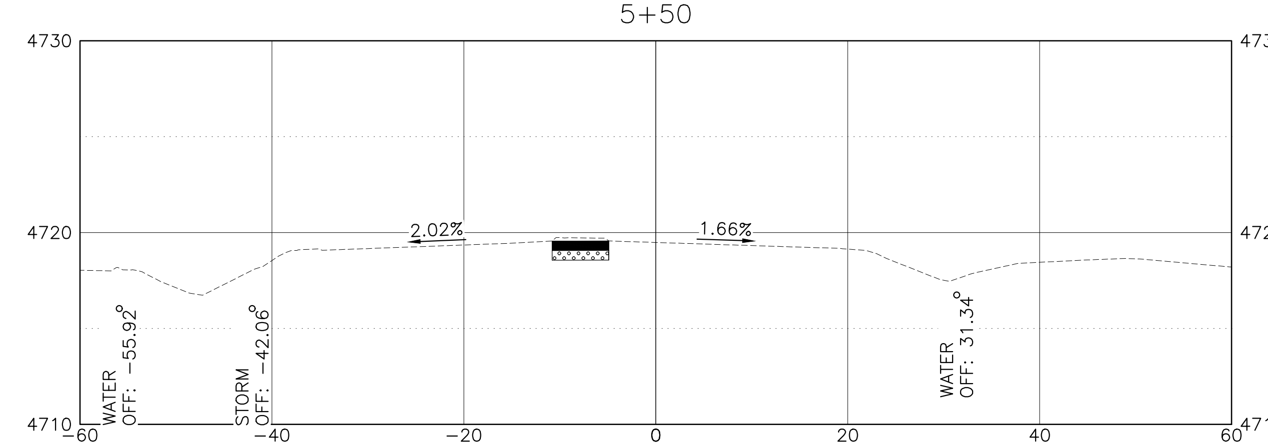

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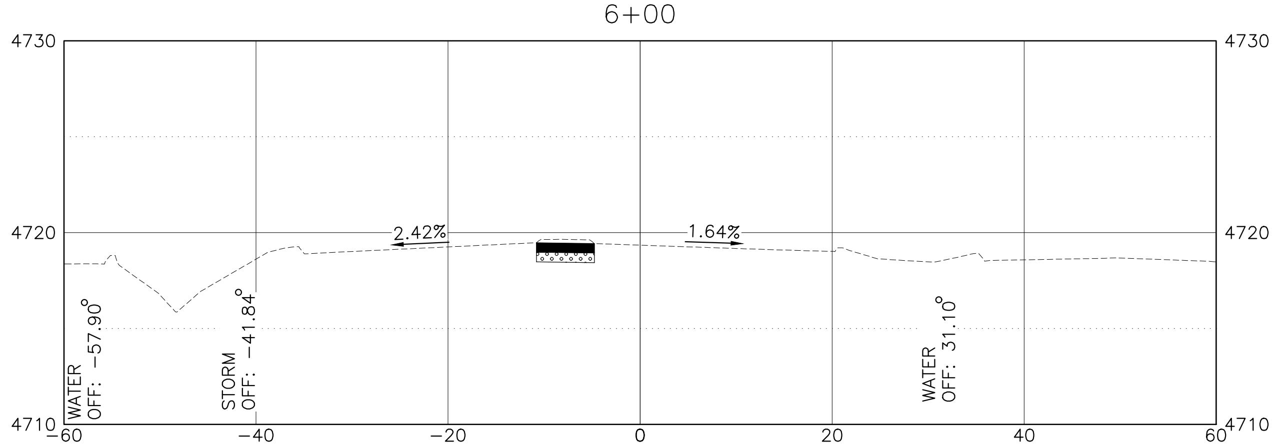

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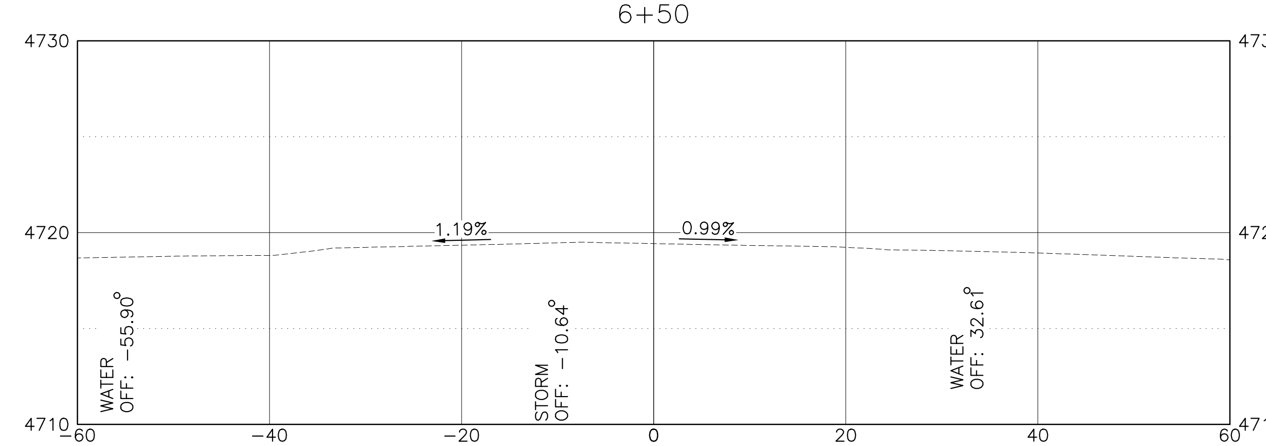
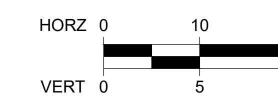


NOTE: UTILITY LOCATES ARE QUALITY LEVEL C (SEE XS–806). LOCATES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY.



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Date Created:5/7/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_XS-80X_NEW.DWG

Print Date: 11/8/2021
Scale: AS NOTED

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Sheet Revisions		
Date:	Comments	

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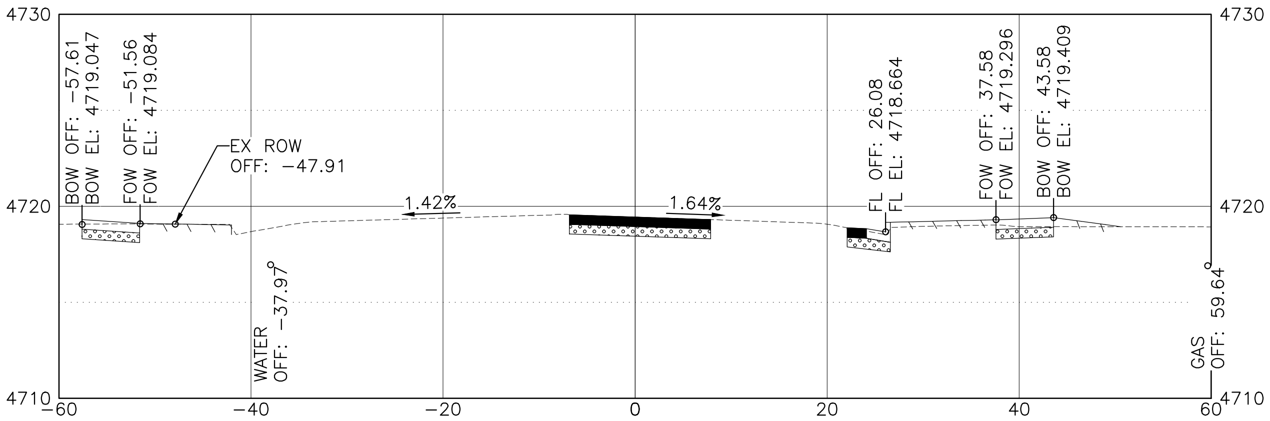
Ad Set
No Revisions:
Revised:
Void:

HIGHWAY 6 MMOF
CROSS SECTIONS

Designer: EWS	Structure Numbers		
Detailer: MWF			
Sheet Subset: XS	Subset Sheets: 1 of 6		

Project No./Code
M021-004 / 23961
Drawing Number XS-801
Sheet Number 79 of 84

7+00



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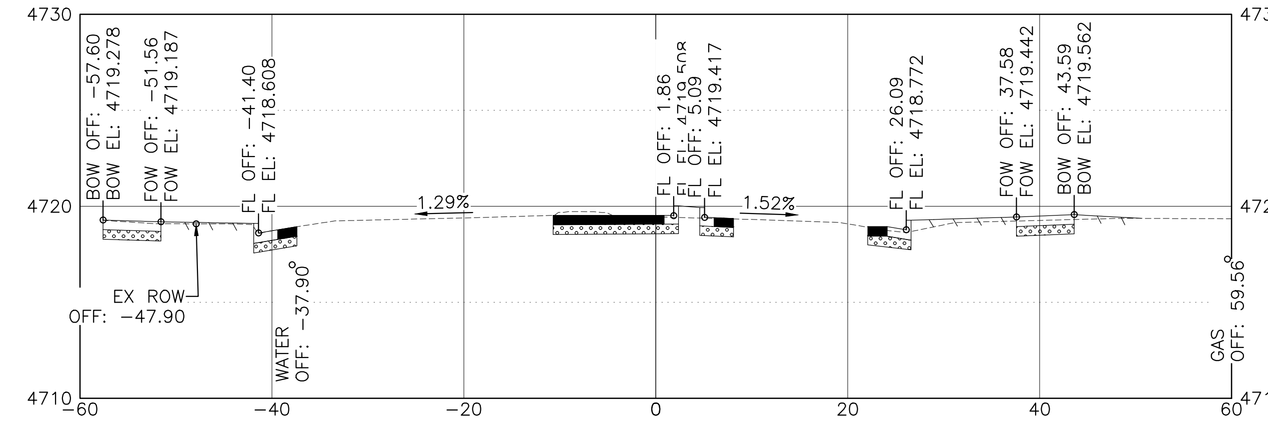

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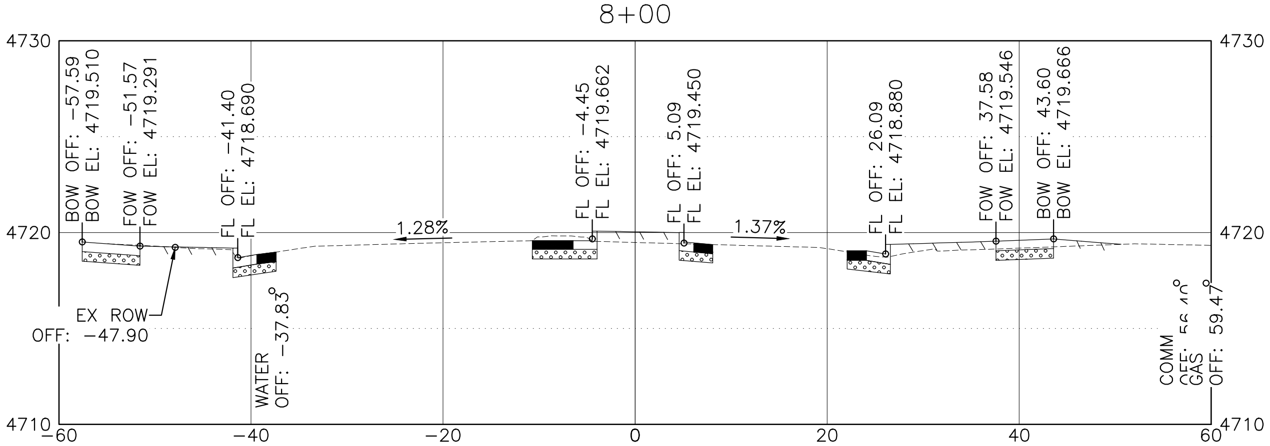

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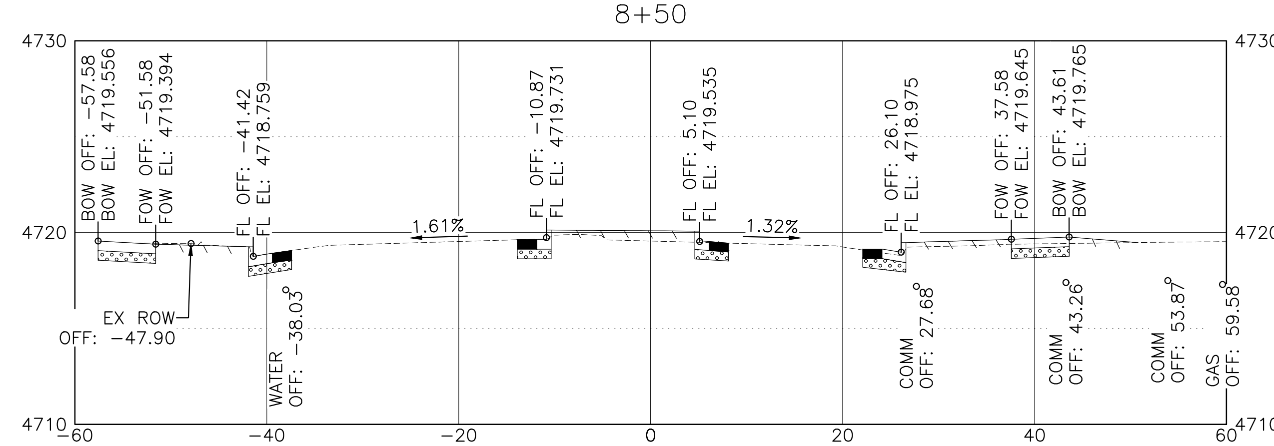

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HORZ 0 10 20
VERT 0 5 10
SCALE IN FEET

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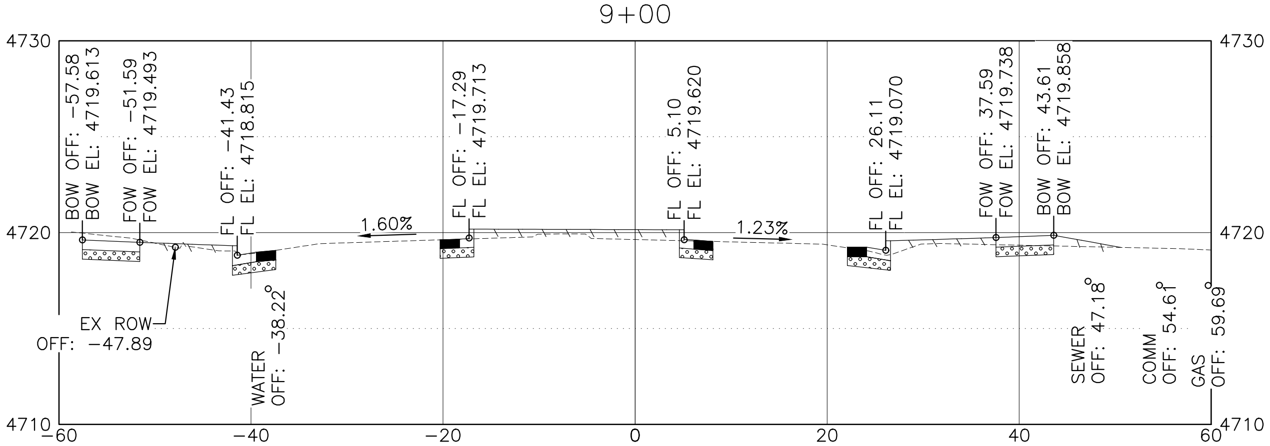

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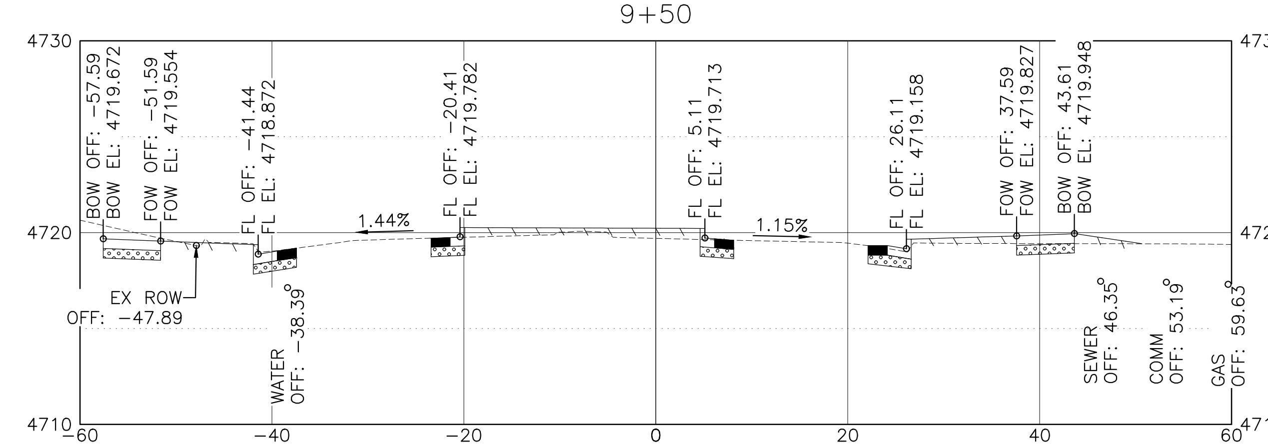

Plot Date: 11/8/2021 2:16 PM Plotted By: Matthew Fila
Date Created: 5/7/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_XS-80X_NEW.DWG

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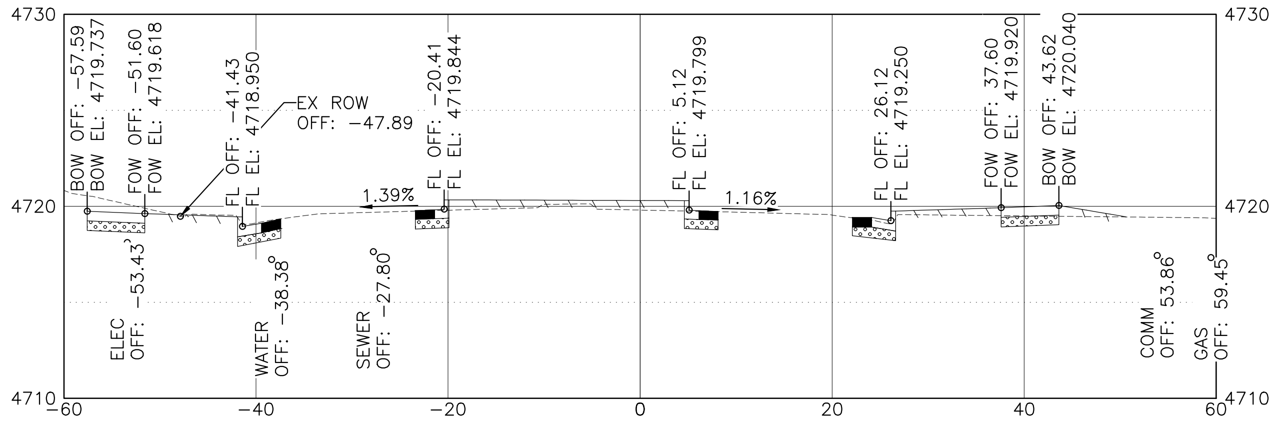
Revised:
Void:

HIGHWAY 6 MMOF
CROSS SECTIONS

Designer: EWS
Detailer: MWF
Sheet Subset: XS
Structure Numbers
Subset Sheets: 2 of 6

Project No./Code
M021-004 / 23961
Drawing Number XS-802
Sheet Number 80 of 84

10+00



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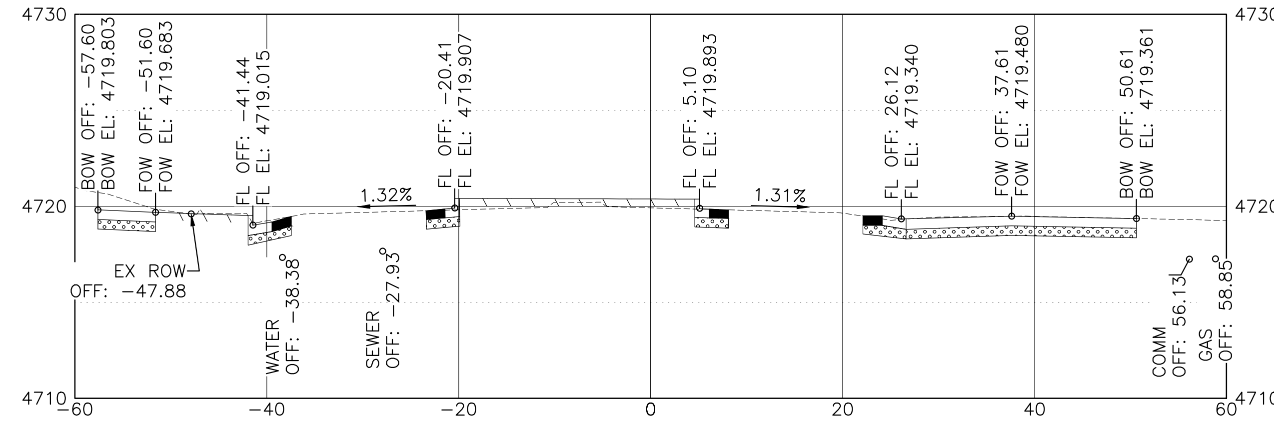

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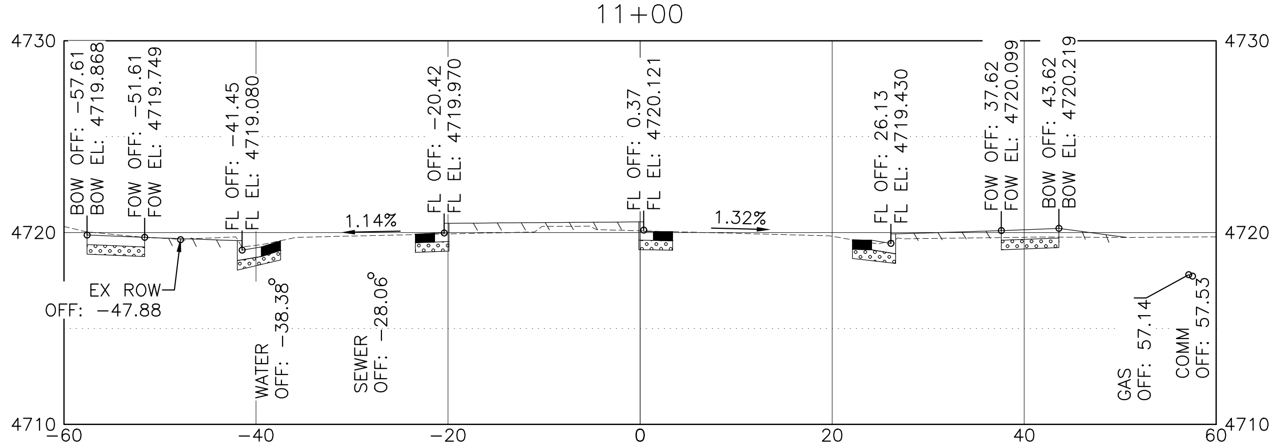

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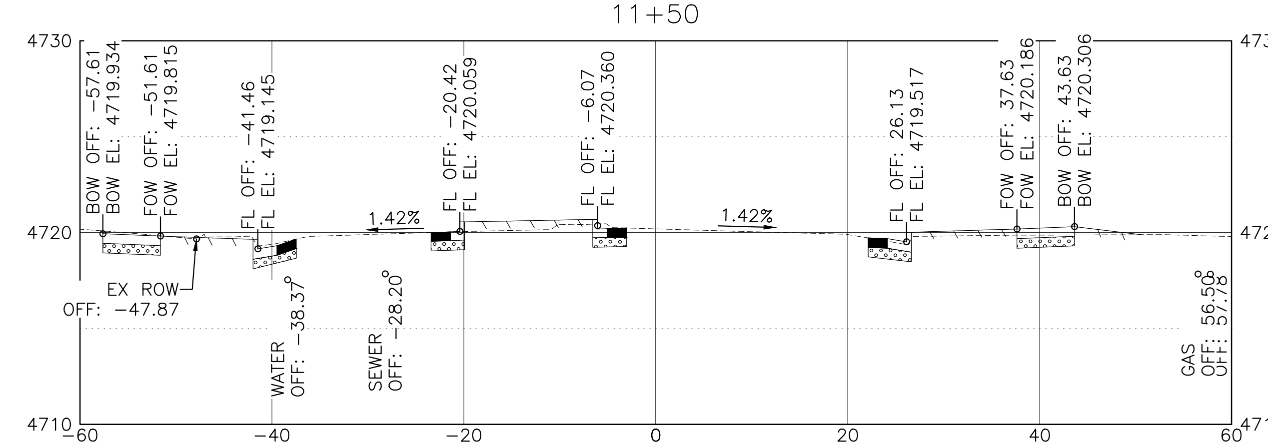

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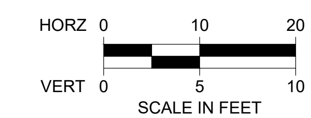

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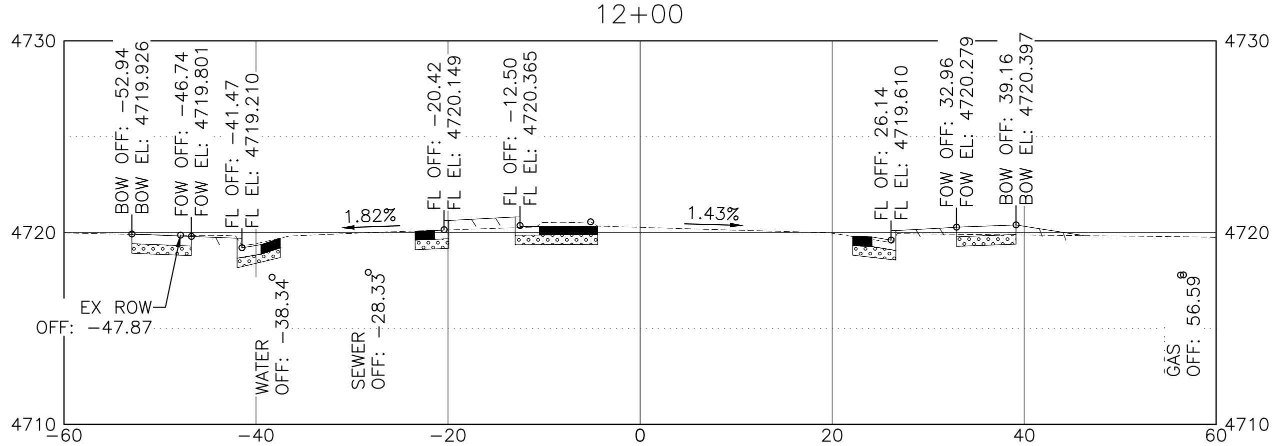

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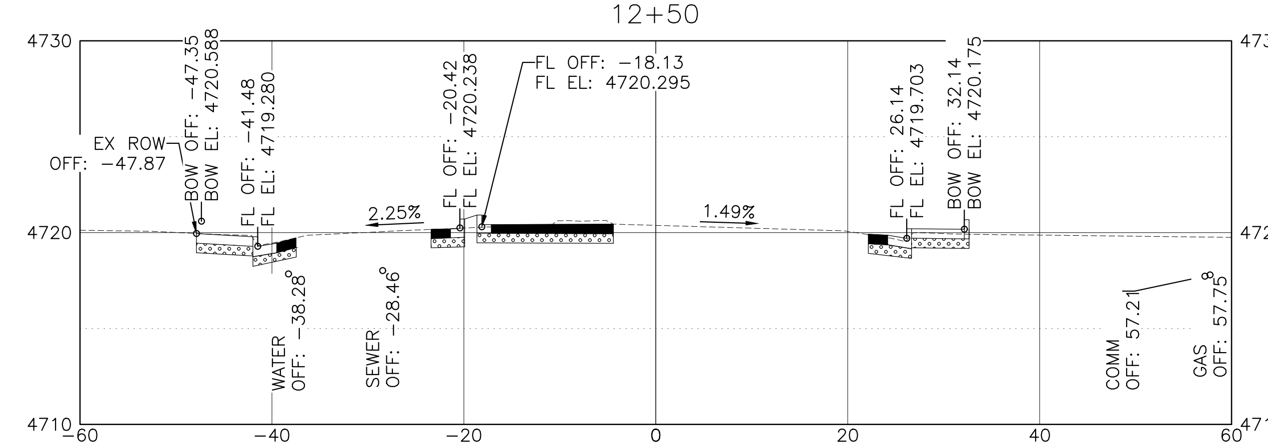

Plot Date:11/8/2021 2:17 PM Plotted By: Matthew Filo
Date Created:5/7/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_XS-80X_NEW.DWG

Print Date: 11/8/2021	Sheet Revisions	
Scale: AS NOTED	Date:	Comments

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Ad Set	HIGHWAY 6 MMOF CROSS SECTIONS		Project No./Code
No Revisions:			M021-004 / 23961
Revised:	Designer: EWS	Structure Numbers	Drawing Number XS-803
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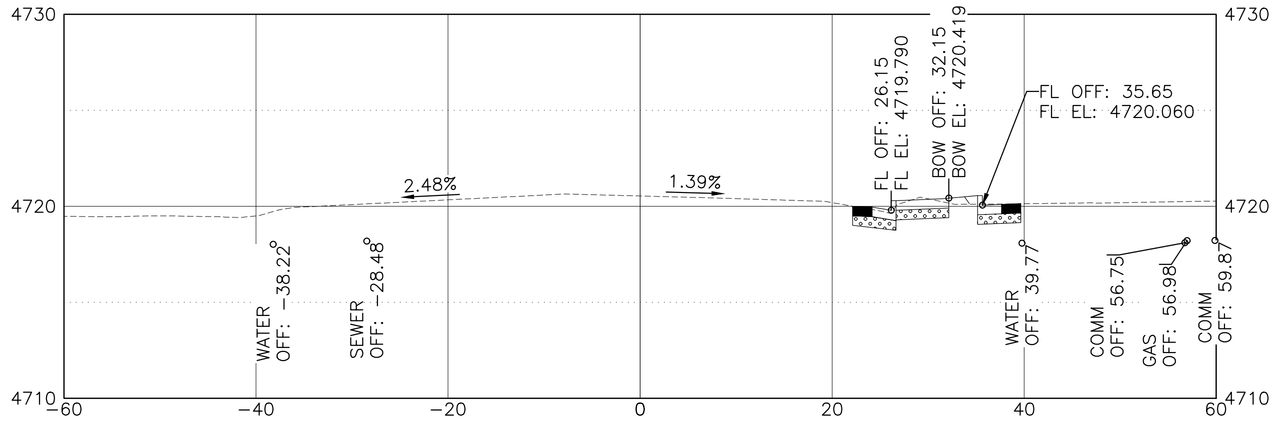
Void:	Sheet Subset: XS	Subset Sheets: 3 of 6	Sheet Number 81 of 84

13+00



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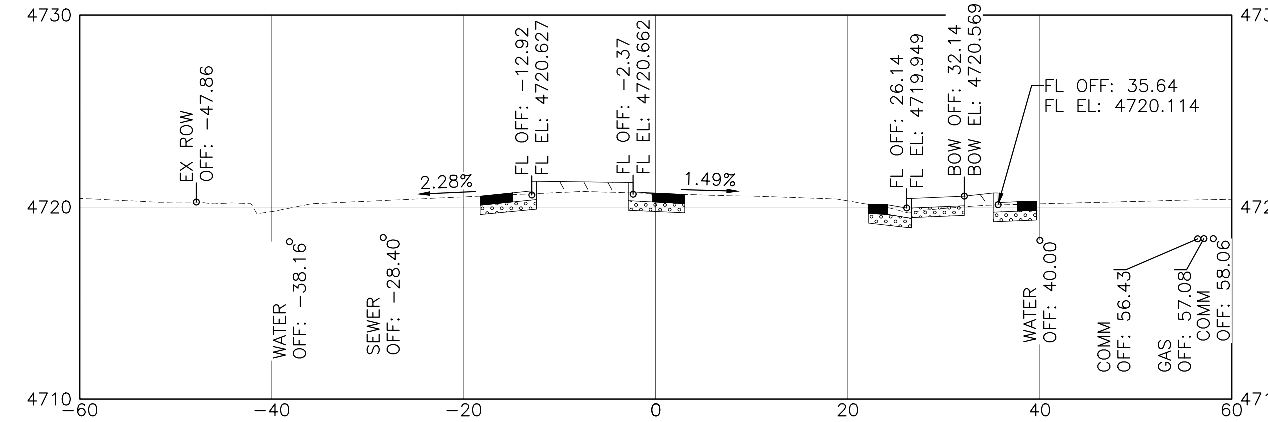

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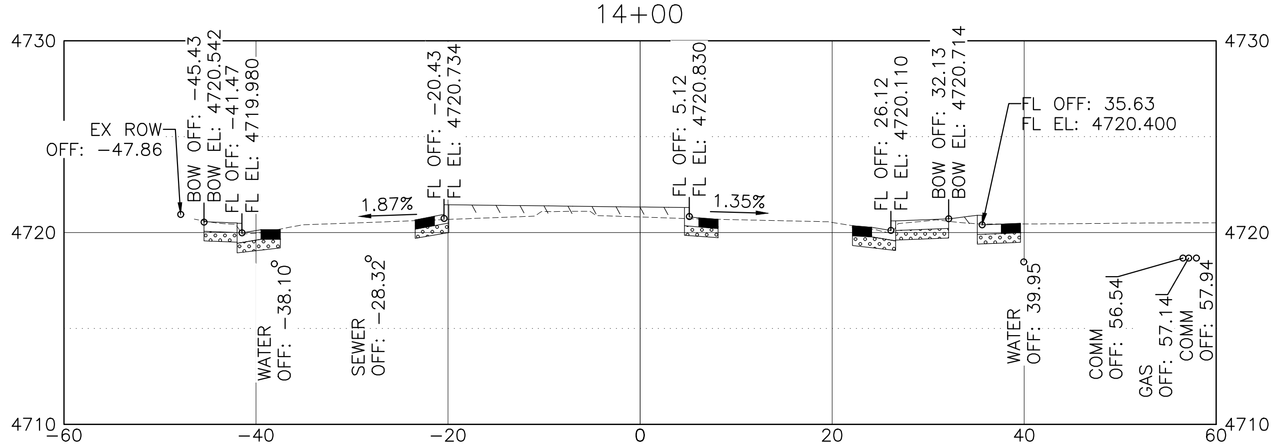

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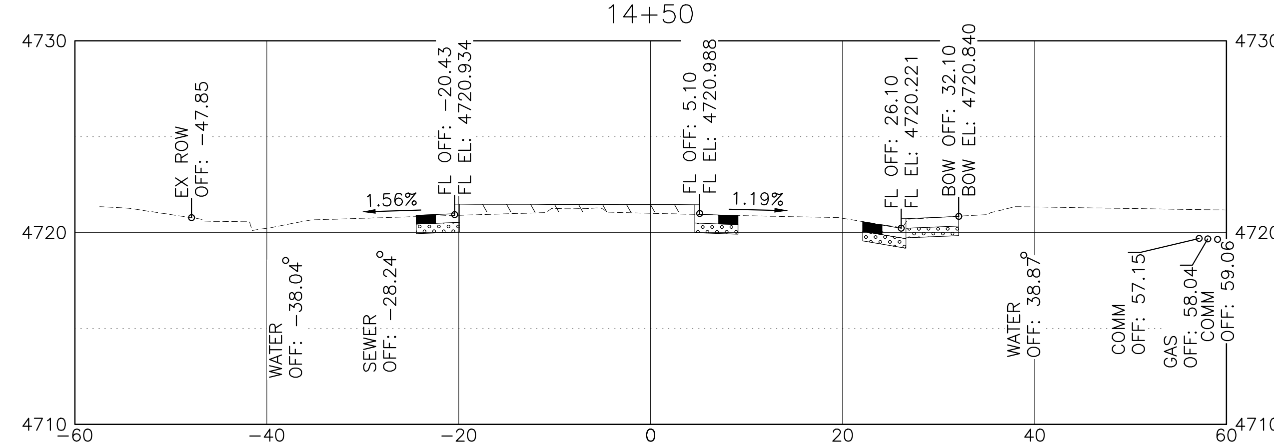

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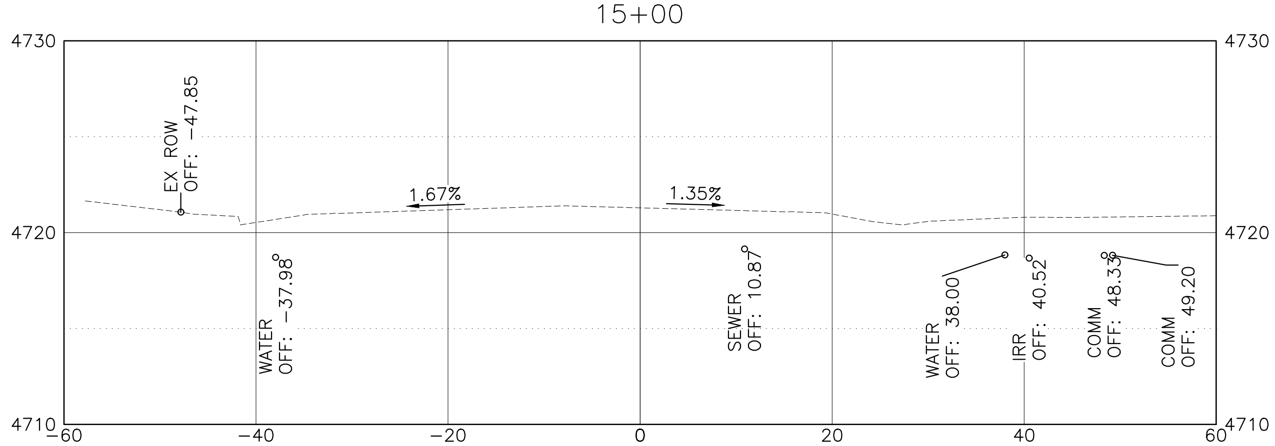

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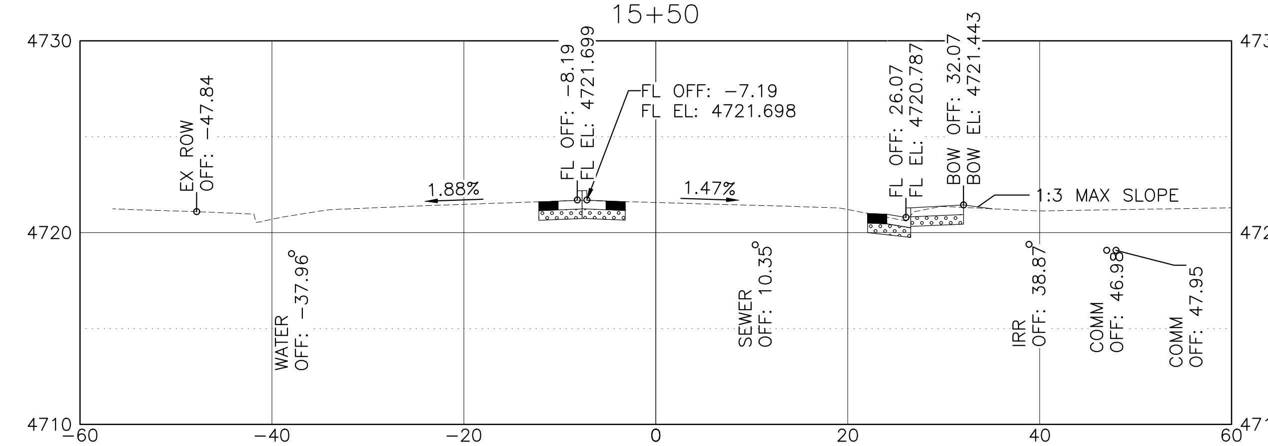

NOTE: UTILITY LOCATES ARE QUALITY LEVEL C (SEE XS-806). LOCATES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY.

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VERT 0 5 10
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Plot Date:11/8/2021 2:17 PM Plotted By: Matthew Filla
Date Created:5/7/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEETS\81-20-015_XS-80X_NEW.DWG

Print Date: 11/8/2021	Sheet Revisions			Ad Set	HIGHWAY 6 MMOF CROSS SECTIONS	Project No./Code
Scale: AS NOTED	Date:	Comments		No Revisions:		M021-004 / 23961
J-U-B ENGINEERS, INC. 305 South Main Street #6 Palisade, CO 81526 Phone: (970) 208-8508				Revised:	Designer: EWS	Drawing Number XS-804
TOWN OF PALISADE COLORADO 175 East Third Street Palisade, CO 81526 Phone: (970) 464-1116					Detailer: MWF	Structure Numbers
COLORADO Department of Transportation				Void:	Sheet Subset: XS	Subset Sheets: 4 of 6
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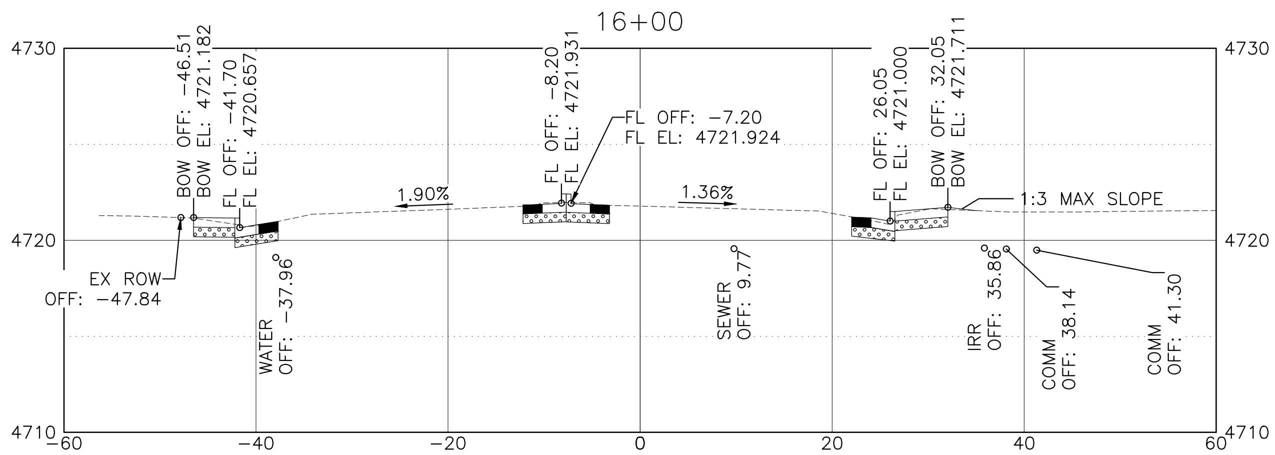
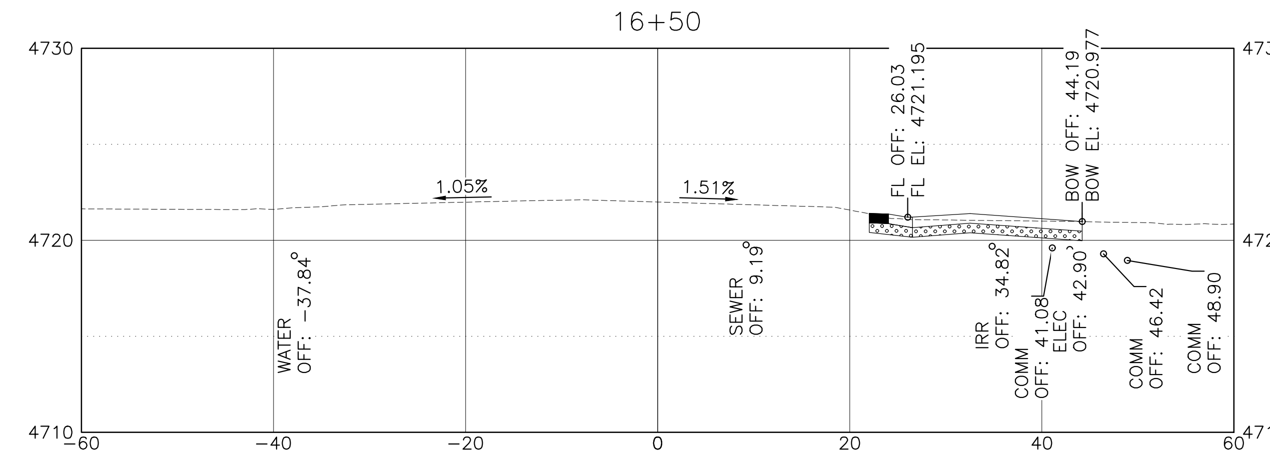
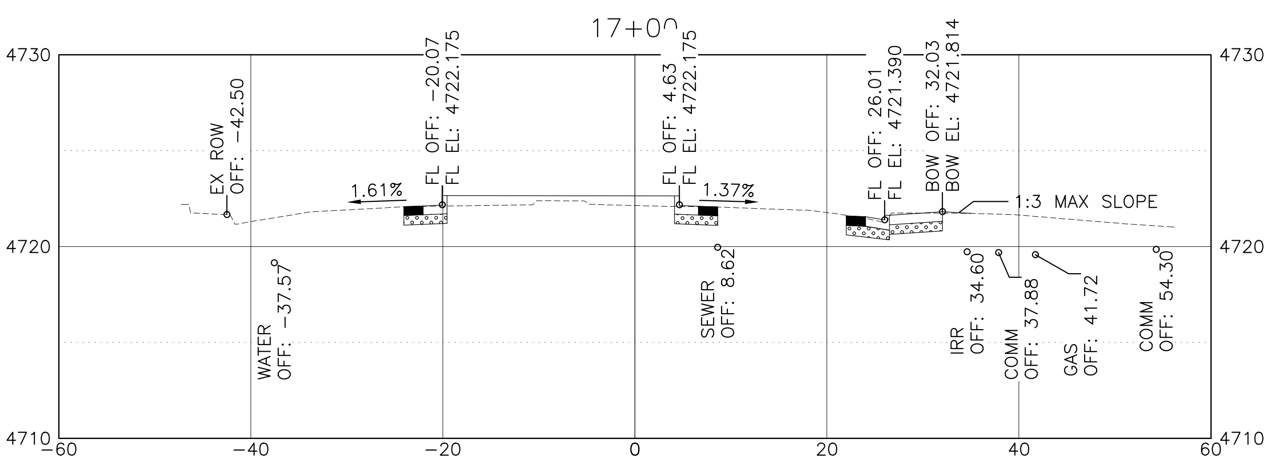
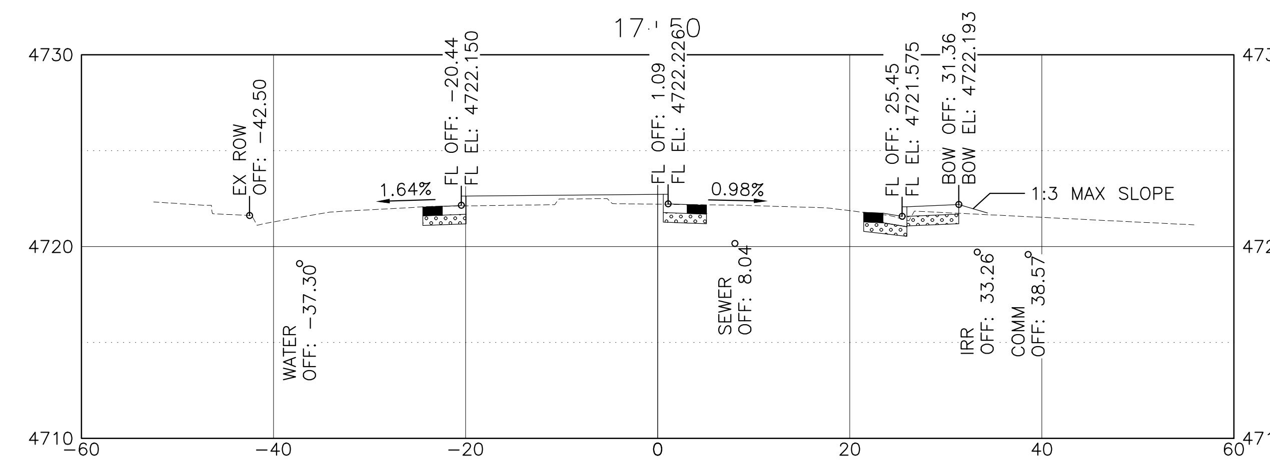
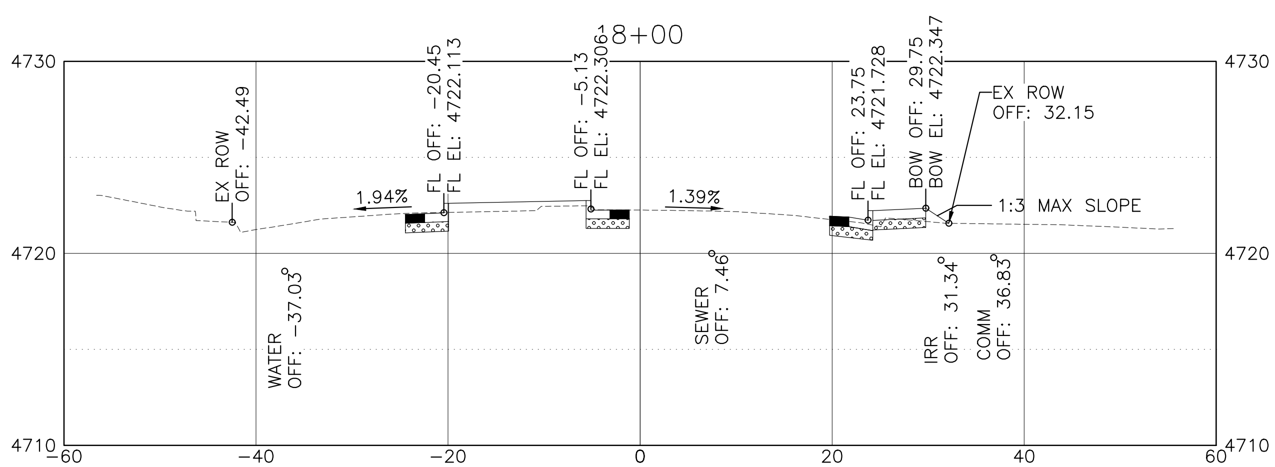
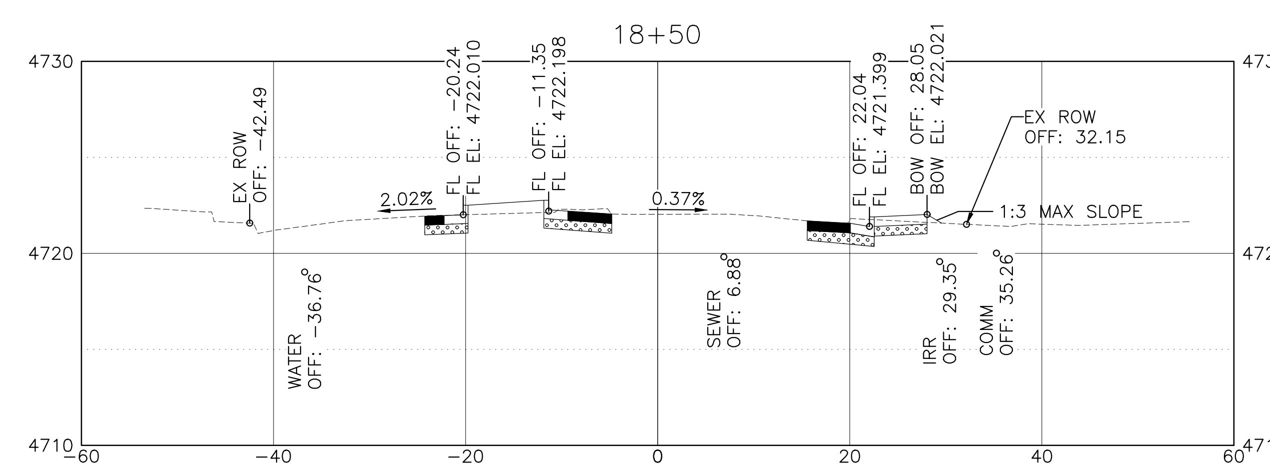












NOTE: UTILITY LOCATES ARE QUALITY LEVEL C (SEE XS-806). LOCATES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY.

HORZ 0 10 20
VERT 0 5 10
SCALE IN FEET

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

Plot Date: 11/8/2021 2:17 PM Plotted By: Matthew Filla
Date Created: 5/7/2021 Path: \\JUB.COM\CENTRAL\CLIENTS\CO\PALISADE\PROJECTS\81-20-015_HIGHWAY6MMOF\DESIGN\CAD\SHEET\81-20-015_XS-80X_NEW.DWG

Print Date: 11/8/2021
Scale: AS NOTED

J-U-B ENGINEERS, INC.
305 South Main Street #6
Palisade, CO 81526
Phone: (970) 208-8508

Sheet Revisions	
Date:	Comments

TOWN OF PALISADE COLORADO
175 East Third Street
Palisade, CO 81526
Phone: (970) 464-1116

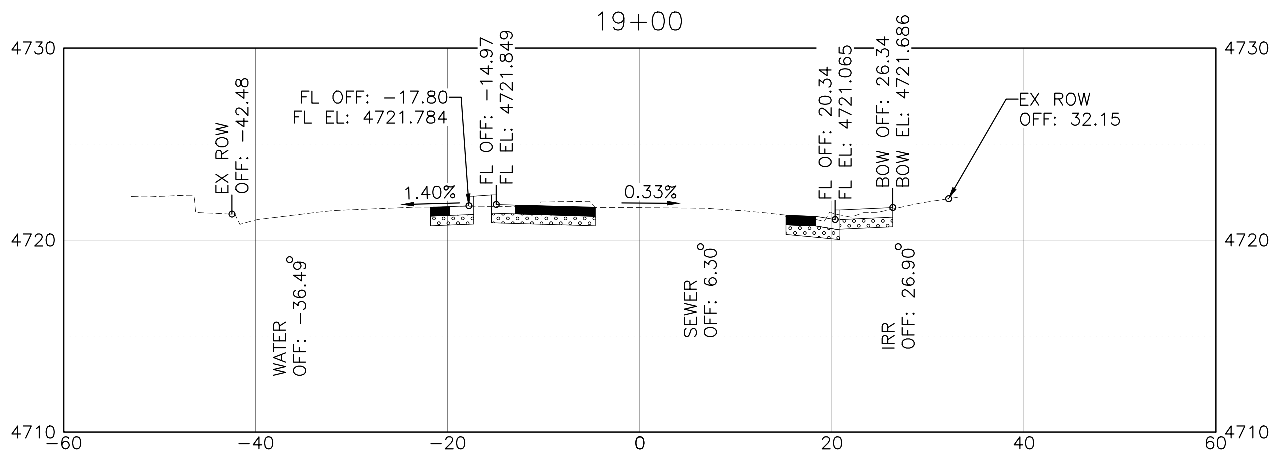
COLORADO Department of Transportation

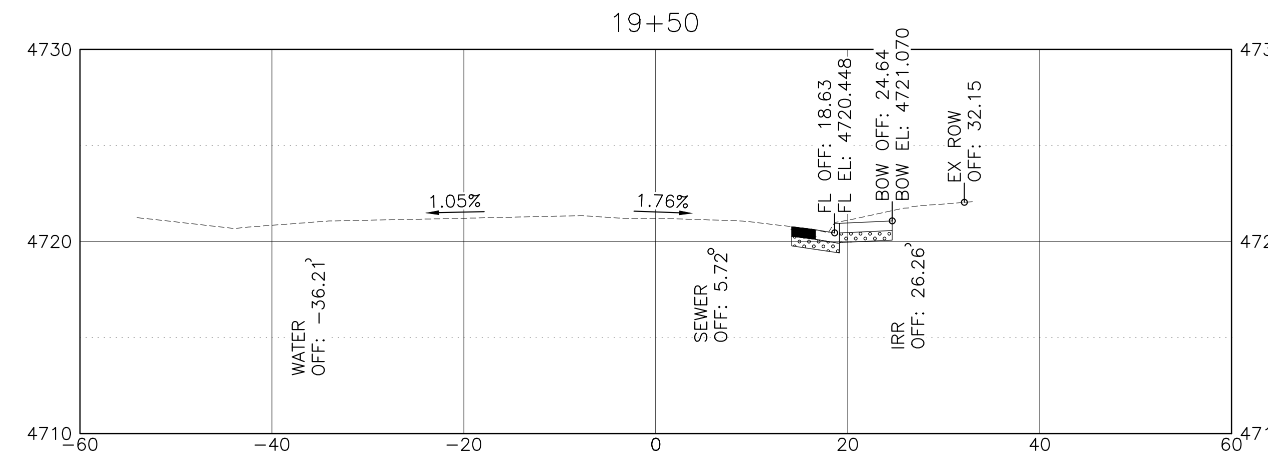
Ad Set
No Revisions:
Revised:
Void:

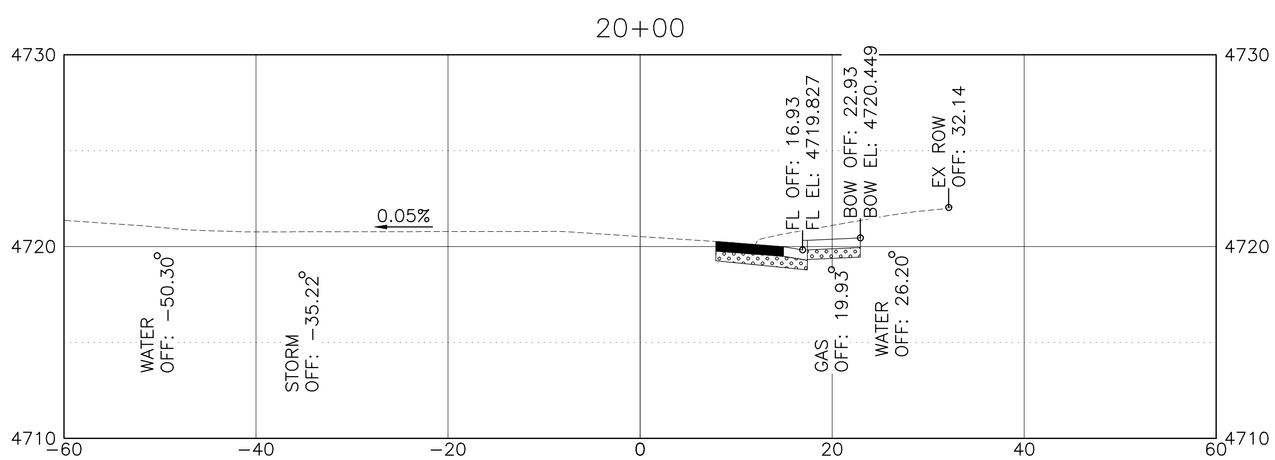
HIGHWAY 6 MMOF
CROSS SECTIONS

Designer: EWS
Detailer: MWF
Sheet Subset: XS
Structure Numbers
Subset Sheets: 5 of 6

Project No./Code
M021-004 / 23961
Drawing Number XS-805
Sheet Number 83 of 84







NOTE: UTILITY LOCATES ARE QUALITY LEVEL C. LOCATES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY.

HORZ 0 10 20
VERT 0 5 10
SCALE IN FEET

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

QUALITY LEVEL (QL) DEFINITIONS PER ASCE SUBSURFACE UTILITY ENGINEERING STANDARDS

QUALITY LEVEL (QL)	DESCRIPTION	RESULTING POSITIONAL ACCURACY AND DATA COMPLETENESS
D	INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.	DATA MAY BE COMPLETELY ERRONEOUS. ONLY THE RECORDS INDICATE THE UTILITY IS PRESENT. NO DIRECT FIELD EVIDENCE IS APPARENT.
C	INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING INFORMATION TO AVAILABLE RECORDS AND QL D INFORMATION. QL C IS USUALLY USED TO MAP NON-CONDUCTIVE PIPES, DEEP UTILITIES, OR WHEN ELECTROMAGNETIC (EM) SIGNAL INTERFERENCE AND DISTORTION IS TOO SIGNIFICANT.	POSITIONAL ACCURACY OF SURFACE FEATURES IS TO WITHIN 0.1 FEET; HOWEVER, ALIGNMENTS BETWEEN SURFACE FEATURES ARE OFTEN SCHEMATIC ONLY, PROVIDING GENERAL DIRECTION OF ALIGNMENT. TYPICALLY, ACCORDING TO FHWA STUDIES, 15% TO 30% OF THE UTILITY DATA MAY BE ERRONEOUS OR MISSING.
B	INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QL B DATA SHOULD BE REPRODUCIBLE AT ANY POINT OF THEIR DEPICTION USING SURFACE GEOPHYSICAL METHODS. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS. STANDARD GEOPHYSICAL METHODS MAP ONLY THE POINT OF PEAK SIGNAL ASSOCIATED WITH A CONDUCTIVE UTILITY. WHILE A QL B POINT CAN BE REPRODUCIBLE USING GEOPHYSICS, THE SIGNAL CAN BE DISTORTED DUE TO THE SUPERPOSITION OF EM FIELDS FROM ADJACENT CONDUCTORS AND NOT LIE HORIZONTALLY ABOVE THE TARGET. EXPERIENCED SUE OPERATORS HELP IDENTIFY AND MITIGATE THESE ISSUES. HOWEVER, QL A DATA IS RECOMMENDED FOR DESIGN / CONSTRUCTION WORK TO BE PERFORMED IN THE IMMEDIATE PROXIMITY OF QL B DEPICTED UTILITIES TO PROVIDE DEFINITIVE POSITIONAL ACCURACY.	A POSITIONAL ACCURACY STATEMENT WITH CONFIDENCE LEVEL IS NOT FEASIBLE UNLESS ELECTROMAGNETIC FIELDS ARE COMPLETELY MAPPED AND STATISTICAL ANALYSIS IS USED TO DERIVE ALIGNMENTS FROM THE LINEAR ANOMALIES; IN ADDITION, SUFFICIENT GROUND TRUTH SAMPLING (E.G., TEST HOLES) IS REQUIRED. THIS LEVEL OF GEOPHYSICAL SURVEY AND ANALYSIS EFFORT REQUIRED IS OFTEN NOT PRACTICAL OR COST EFFECTIVE. IN PRACTICE, EXPERIENCED SUE DESIGNATORS CAN DETERMINE UTILITY ALIGNMENTS REASONABLY WELL. PROFESSIONAL JUDGEMENT IS EXERCISED TO DISTINGUISH INCIDENTS OF "BLEED-OVER" AND WHEN APPARENT ALIGNMENTS DON'T MAKE SENSE. AVAILABLE UTILITY RECORDS ARE COMPARED WITH FIELD FINDINGS TO CONFIRM COMPLETENESS OF THE QL B DATA. QL B RATING, AS A RULE OF THUMB, IS GENERALLY ESTIMATED TO +/- 1 FOOT HORIZONTALLY FOR UTILITIES LESS THAN 5 FEET DEEP. HORIZONTAL ACCURACY DEGRADES WITH DEPTH. UTILITIES OVER 10 FEET DEEP ARE VERY DIFFICULT TO POSITION HORIZONTALLY USING STANDARD INDUCTIVE EQUIPMENT. VERTICAL LOCATION CANNOT BE RELIABLY DERIVED USING EM INDUCTIVE METHODS AS COMPUTED DEPTHS ARE OFTEN INCONSISTENT AND CAN BE MISLEADING UNLESS GROUND TRUTH (I.E., TEST HOLES) ARE AVAILABLE TO CONFIRM ACCURACY.
A	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. MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT IS TYPICALLY USED TO MINIMIZE THE POTENTIAL FOR UTILITY DAMAGE. WITH QL A OBSERVATIONS, RELATIVELY PRECISE HORIZONTAL AND VERTICAL DEPICTIONS, AS WELL AS OTHER UTILITY ATTRIBUTE DATA, ARE SHOWN ON PLAN DOCUMENTS. ACCURACY IS TYPICALLY ABOUT 0.1 FEET VERTICAL, AND TO APPLICABLE HORIZONTAL SURVEY AND MAPPING ACCURACY AS DEFINED OR EXPECTED BY THE PROJECT OWNER AND AS LIMITED BY THE SURVEY EQUIPMENT AND METHODOLOGY USED TO PERFORM THE MEASUREMENT.	THIS IS THE ONLY QL TO WHICH A POSITIONAL ACCURACY STATEMENT MIGHT BE MADE. QL A IS AS ACCURATE AS THE REFERENCE HORIZONTAL AND VERTICAL SURVEY CONTROL WILL PERMIT AND THE METHODOLOGY USED TO MAKE THE MEASUREMENT AND DERIVE THE COORDINATES. NOTE THAT IN SOME CASES INVOLVING INVERTS, DIRECT MEASUREMENTS MAY NOT BE POSSIBLE; CONSEQUENTLY, QL A DESIGNATION CAN ONLY INDICATE THAT A RELATIVELY ACCURATE POSITION HAS BEEN DETERMINE ON THE SUBJECT FACILITY AT THAT DISCRETE LOCATION. IN SOME CASES AN APPARENT MINIMUM DEPTH OF CLEARANCE IS PROVIDED. THIS IS NOT QL A DATA AS THE UTILITY HAS NOT BEEN EXPOSED. THE UTILITY APPARENTLY LIES IN LINE WITH THE TEST HOLE, BUT IS DEEPER THAN CAN BE REACHED VIA VACUUM EXCAVATION BASED ON THE DETECTED GEOPHYSICAL SIGNAL. HOWEVER, THE MINIMUM DEPTH DATA IS PROVIDED FOR INFORMATIONAL PURPOSES FOR PLANNING CONSIDERATION.