

PoDI / NHS

FHWA PROJECT OF DIVISION INTEREST (PoDI)?  NO  YES

NATIONAL HIGHWAY SYSTEM?  NO  YES

**TOWN OF PALISADE**  
**HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED**  
**FEDERAL AID PROJECT NO. TAP M021-001**  
**US HIGHWAY NO. 6**  
**MESA COUNTY**  
**CONSTRUCTION PROJECT CODE NO. 23616**  
**US 6 PALISADE SIDEWALKS**

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Print Date: 6/10/2024

File Name: 23616DES\_CoverSheet.dgn

Horiz. Scale: 1:2000

Vert. Scale:


**Stolfus**  
 5690 DTC BOULEVARD, SUITE 330W  
 GREENWOOD VILLAGE, CO 80111  
 PHONE: 303-221-2330  
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 WWW.STOLFUSANDASSOCIATES.COM



**Sheet Revisions**

Date:	Comments	Init.



Town of Palisade, Colorado

175 East 3rd Street  
 P.O. Box 128  
 Palisade, CO 81526  
 Phone: 970-464-5602

**As Constructed**

No Revisions:

Revised:

Void:

**Contract Information**

Contractor:

Resident Engineer: Kaitlyn Clark

Project Engineer:

PROJECT STARTED: / / ACCEPTED: / /

Comments:

**Project No./Code**

TAP M021-001

23616

Sheet Number 1 of 28

PoDI / NHS

FHWA PROJECT OF DIVISION INTEREST (PoDI)?  NO  YES

NATIONAL HIGHWAY SYSTEM?  NO  YES

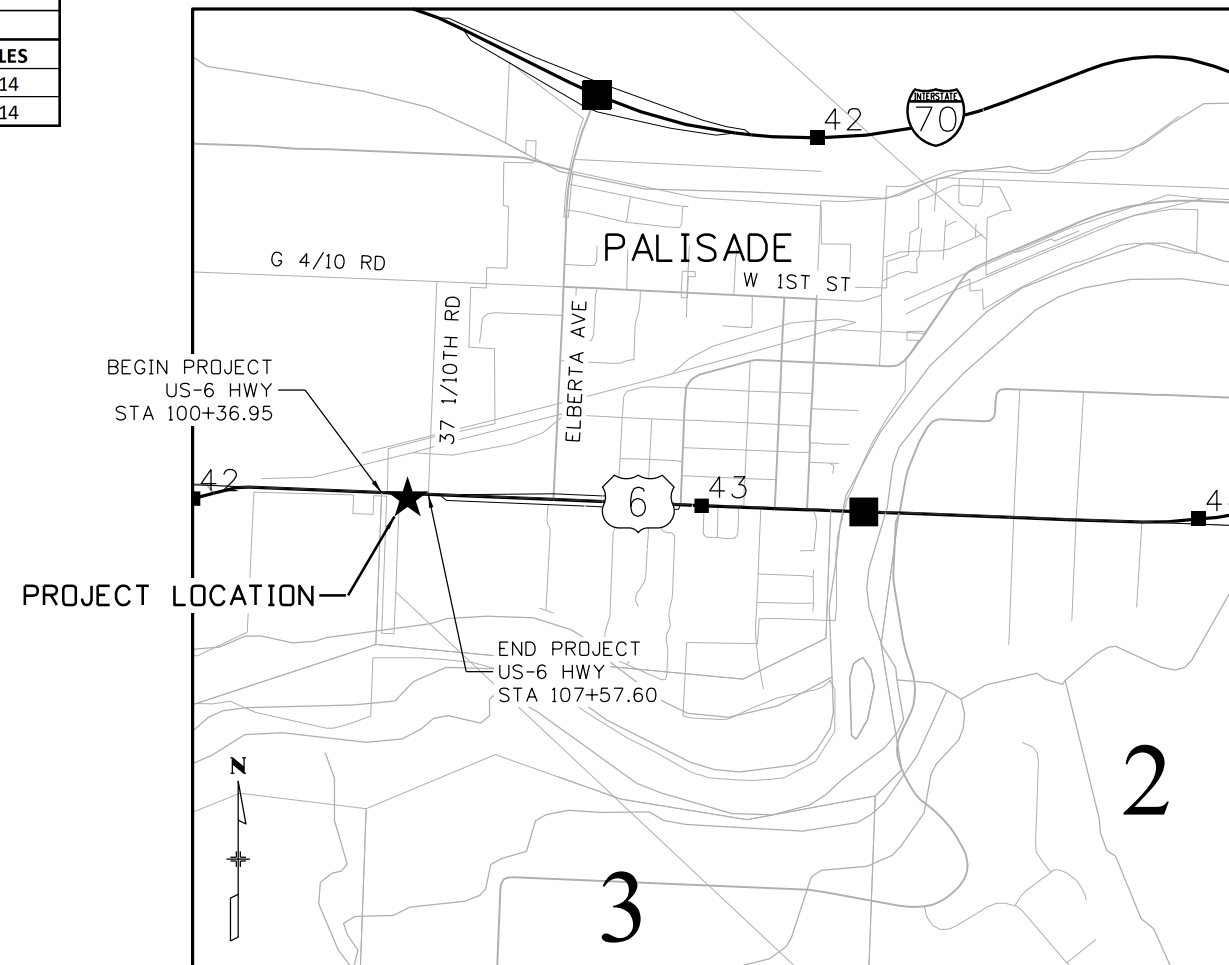
# TOWN OF PALISADE

## HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. TAP M021-001 US HIGHWAY NO. 6 MESA COUNTY CONSTRUCTION PROJECT CODE NO. 23616 US 6 PALISADE SIDEWALKS

TABULATION OF LENGTH & DESIGN DATA		
STATION	US-6	
	FEET ROADWAY	
BEGIN STA 100+36.95	721	
END STA 107+57.60		
TOTAL (FEET)	721	
SUMMARY OF PROJECT LENGTH		
	FEET	MILES
ROADWAY (NET LENGTH)	721	0.14
PROJECT GROSS LENGTH	721	0.14

TOWN OF PALISADE CONTACT		
TOWN MANAGER	JANET HAWKINSON	970-296-0468

DESIGN DATA	DESIGN CRITERIA
	US-6
POSTED SPEED	40 MPH
CLASSIFICATION	MINOR ARTERIAL
SIDEWALK WIDTH	6'
MINIMUM CLEAR SPACE WIDTH	5'
SIDEWALK CROSS SLOPE	2%
MAXIMUM SIDE SLOPE	4:1
MAXIMUM SIDEWALK GRADE	5%
MINIMUM SIDEWALK BUFFER	6'
CURB RAMP WIDTH	4' MIN
CURB RAMP RUNNING SLOPE	5% MAX
DETECTABLE WARNING RUNNING SLOPE	5% MAX
EXISTING (2020) AADT, % TRUCKS	6,100, 2.2%
DESIGN (2040) AADT, % TRUCKS	6,470, 2.2%
TRAVEL LANE WIDTH	12'



**PROJECT LOCATION MAP**

SHEET NO.	INDEX OF SHEETS
1	COVER SHEET
2	TITLE SHEET
3	STANDARD PLANS LIST
4 to 5	GENERAL NOTES
6 to 7	SUMMARY OF APPROXIMATE QUANTITIES
8	TABULATION OF SURVEY
9 to 11	PROJECT CONTROL DIAGRAM
12	GEOMETRIC CONTROL PLAN
13	TABULATION OF REMOVALS
14	TABULATION OF SURFACING
15	TABULATION OF TRAFFIC ITEMS
16	TYPICAL SECTION
17 to 18	REMOVAL PLAN
19 to 20	ROADWAY PLAN & PROFILE
21 to 26	STORMWATER MANAGEMENT PLAN
27	STORMWATER MANAGEMENT PLAN INITIAL/INTERIM SITE MAP
28	STORMWATER MANAGEMENT PLAN FINAL SITE MAP

PROJECT DESCRIPTION:

THIS PROJECT IS TO CONSTRUCT SIDEWALK ON THE SOUTH SIDE OF US 6 BETWEEN THE PALISADE HIGH SCHOOL AND THE FRONTAGE ROAD.

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Print Date: 6/10/2024

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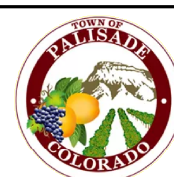
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Contractor:

Resident Engineer: Kaitlyn Clark

Project Engineer:

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Comments:

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TAP M021-001

23616

Sheet Number 2 of 28



PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	S STANDARD TITLE	PAGE NUMBER
<input checked="" type="checkbox"/> M-100-1	STANDARD SYMBOLS (3 SHEETS).....	1-3	<input type="checkbox"/> M-606-1	MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM..... 31 INCHES (19 SHEETS) <i>(REVISED ON MARCH 5, 2020)</i>	<del>79-97</del>	<input type="checkbox"/> S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS).....	<del>171-178</del>
<input checked="" type="checkbox"/> M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS).....	4-7	<input type="checkbox"/> M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS).....	98-101	<input type="checkbox"/> S-613-1	ROADWAY LIGHTING (6 SHEETS).....	<del>179-186</del>
<input type="checkbox"/> M-203-1	APPROACH ROADS.....	8	<input type="checkbox"/> M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS).....	<del>102-104</del>			
<input type="checkbox"/> M-203-2	DITCH TYPES.....	9		<i>(REVISED ON FEBRUARY 9, 2023)</i>		<input type="checkbox"/> S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS)	
<input type="checkbox"/> M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12	<input type="checkbox"/> M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER.....	<del>105-116</del>		<i>(NEW, ISSUED ON SEPTEMBER 30, 2020)</i>	
				(11 SHEETS) <i>(REVISED ON FEBRUARY 17, 2023)</i>		<input type="checkbox"/> S-613-3	PULL BOX DETAIL (2 SHEETS) <i>(NEW, ISSUED ON APRIL 4, 2024)</i>	
<input type="checkbox"/> M-203-12	SUPERELEVATION STREETS (2 SHEETS).....	13-14	<input type="checkbox"/> M-607-1	WIRE FENCES AND GATES (3 SHEETS).....	116-118	<input type="checkbox"/> S-613-4	TRAFFIC SIGNAL ONE-LINE DIAGRAMS (6 SHEETS)	
<input type="checkbox"/> M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	15-16	<input type="checkbox"/> M-607-2	CHAIN LINK FENCE (3 SHEETS).....	119-121		<i>(NEW, ISSUED ON JUNE 15, 2023)</i>	
<input type="checkbox"/> M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS).....	17-18	<input type="checkbox"/> M-607-3	BARRIER FENCE.....	122	<input checked="" type="checkbox"/> S-614-1	GROUND SIGN PLACEMENT (2 SHEETS).. <i>(REVISED ON MARCH 1, 2024)</i>	187-188
<input checked="" type="checkbox"/> M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS).....	19-29	<input type="checkbox"/> M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS).....	<del>123-127</del>	<input checked="" type="checkbox"/> S-614-2	CLASS I SIGNS ... <i>(REVISED ON MARCH 1, 2024)</i>	189
	<i>(REVISED ON MAY 16, 2024)</i>			<i>(REVISED ON JULY 13, 2020)</i>		<input checked="" type="checkbox"/> S-614-3	CLASS II SIGNS ... <i>(REVISED ON MARCH 1, 2024)</i>	190
<input type="checkbox"/> M-210-1	MAILBOX SUPPORTS (2 SHEETS).....	30-31	<input type="checkbox"/> M-607-10	PICKET SNOW FENCE.....	128	<input type="checkbox"/> S-614-4	CLASS III SIGNS (3 SHEETS) ... <i>(REVISED ON MARCH 1, 2024)</i>	191-193
<input type="checkbox"/> M-214-1	NURSERY STOCK DETAILS.....	32	<input type="checkbox"/> M-607-15	ROAD CLOSURE GATE (9 SHEETS).....	129-137	<input type="checkbox"/> S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS (2 SHEETS)	194-195
<input checked="" type="checkbox"/> M-216-1	SOIL RETENTION COVERING (2 SHEETS).....	33-34	<input checked="" type="checkbox"/> M-608-1	CURB RAMPS (10 SHEETS).....	138-147	<input type="checkbox"/> S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS.....	196-197
<input type="checkbox"/> M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS).....	<del>35-39</del>	<input checked="" type="checkbox"/> M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS).....	148-151		FOR CLASS III SIGNS (2 SHEETS)	
	<i>(REVISED ON JANUARY 31, 2022)</i>		<input type="checkbox"/> M-611-1	CATTLE GUARD (2 SHEETS).....	152-153	<input checked="" type="checkbox"/> S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS).....	198-204
<input type="checkbox"/> M-412-2	CONCRETE PAVEMENT CRACK REPAIR (6 SHEETS)		<input type="checkbox"/> M-611-2	DEER GUARD (2 SHEETS).....	154-155		<i>(REVISED ON MARCH 1, 2024)</i>	
	<i>(REVISED ON SEPTEMBER 6, 2022)</i>		<input type="checkbox"/> M-614-1	RUMBLE STRIPS (3 SHEETS).....	156-158	<del>S-614-9</del>	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS).....	<del>205-206</del>
<input type="checkbox"/> M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING.....	40	<input type="checkbox"/> M-614-2	SAND BARREL ARRAYS (2 SHEETS).....	159-160		<i>(SUPERSEDED ON JANUARY 23, 2020 BY S-614-45)</i>	
<input type="checkbox"/> M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE).....	41-42	<input type="checkbox"/> M-615-1	EMBANKMENT PROTECTOR TYPE 3.....	161	<input type="checkbox"/> S-614-10	MARKER ASSEMBLY INSTALLATIONS.....	207
	(2 SHEETS)		<input type="checkbox"/> M-615-2	EMBANKMENT PROTECTOR TYPE 5.....	162	<input type="checkbox"/> S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS.....	208
<input type="checkbox"/> M-601-2	DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLACE).....	43-44	<input type="checkbox"/> M-616-1	INVERTED SIPHON.....	163	<input type="checkbox"/> S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS).....	209-210
	(2 SHEETS)		<input type="checkbox"/> M-620-1	FIELD LABORATORY CLASS 1.....	164	<input type="checkbox"/> S-614-14	FLASHING BEACON AND SIGN INSTALLATIONS (4 SHEETS).....	211-214
<input type="checkbox"/> M-601-3	TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLACE).....	45-46	<input type="checkbox"/> M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS).....	165-166	<input type="checkbox"/> S-614-15	CHAIN STATION SIGNAGE (1 SHEET) <i>(NEW, ISSUED ON APRIL 30, 2024)</i>	
	(2 SHEETS)		<input type="checkbox"/> M-620-11	FIELD OFFICE CLASS 1.....	167	<input type="checkbox"/> S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS.....	215
<input type="checkbox"/> M-601-10	HEADWALL FOR PIPES.....	47	<input type="checkbox"/> M-620-12	FIELD OFFICE CLASS 2.....	168	<input type="checkbox"/> S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS.....	216-217
<input type="checkbox"/> M-601-11	TYPE "S" SADDLE HEADWALLS FOR PIPE.....	48	<input checked="" type="checkbox"/> M-629-1	SURVEY MONUMENTS (2 SHEETS).....	169-170		(2 SHEETS) <i>(REVISED ON SEPTEMBER 21, 2020)</i>	
<input type="checkbox"/> M-601-12	HEADWALLS AND PIPE OUTLET PAVING.....	49				<input type="checkbox"/> S-614-22	TYPICAL MULTI-SIGN INSTALLATIONS.....	218
<input type="checkbox"/> M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS) ...	50-51				<input type="checkbox"/> S-614-23	J-POST SIGN SUPPORT (3 SHEETS) <i>(NEW, ISSUED ON MAR. 1, 2024)</i>	
<input type="checkbox"/> M-603-1	METAL PIPE (4 SHEETS).....	52-55				<input type="checkbox"/> S-614-40	TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS.....	219-223
<input type="checkbox"/> M-603-2	REINFORCED CONCRETE PIPE.....	56					65'-75' SINGLE MAST ARMS (5 SHEETS)	
<input type="checkbox"/> M-603-3	PRECAST CONCRETE BOX CULVERT.....	<del>57</del>				<input type="checkbox"/> S-614-40A	ALTERNATIVE TRAFFIC SIGNAL.....	224-227
	<i>(REVISED ON SEPTEMBER 10, 2020)</i>						25'-55' SINGLE MAST ARMS (4 SHEETS) <i>(REVISED ON JULY 22, 2022)</i>	
<input type="checkbox"/> M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND CORRUGATED POLYPROPYLENE PIPE (AASHTO M330) (2 sheets)	<del>58</del>				<input type="checkbox"/> S-614-41	TEMPORARY SPAN WIRE SIGNALS (13 SHEETS).....	228-240
	<i>(REVISED ON MARCH 7, 2022)</i>					<input type="checkbox"/> S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS) <i>(REVISED ON APRIL 4, 2024)</i>	241-244
<input type="checkbox"/> M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304).....	59				<input type="checkbox"/> S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS.....	245-252
<input type="checkbox"/> M-603-6	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20)	60					(7 SHEETS) <i>(REVISED ON APRIL 4, 2024)</i>	
<input type="checkbox"/> M-603-10	CONCRETE AND METAL END SECTIONS.....	61				<input type="checkbox"/> S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS).....	253-254
<input type="checkbox"/> M-603-12	TRAVERSABLE END SECTIONS AND SAFETY GRATES.....	62-64				<input type="checkbox"/> S-614-45	PEDESTRIAN PUSH BUTTON POST ASSEMBLY DETAILS (6 SHEETS)	
	(3 SHEETS)						<i>(REVISED ON DECEMBER 3, 2020)</i>	
<input type="checkbox"/> M-604-10	INLET, TYPE C.....	65				<input type="checkbox"/> S-614-50	STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS).....	255-266
<input type="checkbox"/> M-604-11	INLET, TYPE D.....	66				<input type="checkbox"/> S-614-60	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS).....	267-280
<input type="checkbox"/> M-604-12	CURB INLET TYPE R (2 SHEETS).....	67-68				<input type="checkbox"/> S-627-1	PAVEMENT MARKINGS (11 SHEETS) <i>(REV. APRIL 30, 2024)</i>	<del>281-289</del>
<input type="checkbox"/> M-604-13	CONCRETE INLET TYPE 13.....	69				<input checked="" type="checkbox"/> S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION.....	<del>290-313</del>
<input type="checkbox"/> M-604-20	MANHOLES (3 SHEETS).....	70-72					(26 SHEETS) <i>(REVISED ON APRIL 30, 2024)</i>	
<input type="checkbox"/> M-604-25	VANE GRATE INLET (5 SHEETS).....	73-77				<input checked="" type="checkbox"/> S-630-2	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP).....	314
	<i>(REVISED ON FEBRUARY 3, 2023)</i>						AND VERTICAL PANELS	
<input type="checkbox"/> M-605-1	SUBSURFACE DRAINS.....	78				<input type="checkbox"/> S-630-3	FLASHING BEACON (PORTABLE) DETAILS.....	315
						<input checked="" type="checkbox"/> S-630-4	STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION.....	316-317
							DETAILS (2 SHEETS)	
						<input type="checkbox"/> S-630-5	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS).....	318-319
						<input type="checkbox"/> S-630-6	EMERGENCY PULL-OFF AREA (TEMPORARY).....	320
						<input type="checkbox"/> S-630-7	ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS).....	321-323

**COLORADO**  
 DEPARTMENT OF TRANSPORTATION  
**M&S STANDARDS PLANS LIST**  
 July 31, 2019  
 Revised on May 16, 2024

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 OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE  
 IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

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Print Date: 6/10/2024	<b>Sheet Revisions</b>				<b>Town of Palisade, Colorado</b>		<b>As Constructed</b>		<b>STANDARD PLANS LIST</b>		<b>Project No./Code</b>	
File Name: 23616DES_StandardPlans.dgn	Date:	Comments	Init.		175 East 3rd Street P.O. Box 128 Palisade, CO 81526 Phone: 970-464-5602		No Revisions:		TAP M021-001			
Horiz. Scale: 1:1						Revised:		Designer: LMV	Structure	23616		
	5690 DTC BOULEVARD, SUITE 330W GREENWOOD VILLAGE, CO 80111 PHONE: 303-221-2330 FAX: 303-221-2331 WWW.STOLFUSANDASSOCIATES.COM					Void:		Detailer: LMV	Numbers	3 of 28		
								Sheet Subset: STD PLNS	Subset Sheets: 01 of 01			



**SECTION 200**

1. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:

FULL DEPTH OF ALL EMBANKMENTS  
BASES OF CUTS AND FILLS – 6 INCHES

CONTRACTOR SHALL SCARIFY, MOISTURE CONDITION, AND COMPACT THE TOP 6 INCHES OF SUBGRADE UNDER THE SIDEWALK PER SECTION 203 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER. WATER SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF WORK.
3. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
4. STORAGE AND STAGING AREAS SHALL UTILIZE CURRENTLY IMPACTED AREAS. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL, EQUIPMENT, OR VEHICLES WITHIN THE CLEAR ZONE UNLESS APPROVED BY THE ENGINEER.
5. DISPOSAL OF EXCESS MATERIAL OFF-SITE OR THE IMPORTING OF MATERIALS ON-SITE, REGARDLESS OF PROPERTY OWNERSHIP, MUST BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.
6. MATERIAL THAT IS LOOSENEED FROM THE ROADWAY WILL BE CLEARED OFF THE ROADWAY (PICKUP BROOM, SWEEP UP) IMMEDIATELY. NONE OF THE MATERIAL SHALL BE ALLOWED TO RUN OFF INTO THE WATERS OF THE STATE BY ANY MEANS. SWEEPING SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
7. ANY REMAINING SOIL LEFT FROM DRILLING AND ALL REMOVAL ITEMS, EXCEPT AS NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY OFF OF CDOT RIGHT-OF-WAY AND AT THE EXPENSE OF THE CONTRACTOR.
8. THE EROSION CONTROL SUPERVISOR SHALL PROVIDE AND COORDINATE THE PLACEMENT OF ALL EROSION/SEDIMENT CONTROL FEATURES (BMPS). THESE BMP'S SHALL BE IN PLACE PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES AND APPROVED BY THE ENGINEER. THE EROSION CONTROL SUPERVISOR AND CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL BMP'S THAT HAVE BEEN INSTALLED.
9. ALL SLOPES WILL BE ROUGHED BY THE ENGINEER. COSTS ASSOCIATED WITH THIS ORDER SHALL BE INCIDENTAL TO THE EARTHWORK PAY ITEM.
10. NO VERTICAL SLOPES SHALL BE LEFT OVERNIGHT UNPROTECTED. ALL UNPROTECTED VERTICAL SLOPES SHALL BE FLATTENED TO A 4:1 SIDE SLOPE PRIOR TO THE END OF THE WORK DAY, OR AS DIRECTED BY THE ENGINEER.
11. CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL TREES, LOGS, LIMBS, BRUSH, AND TRASH, ETC. TO AN OFFSITE LOCATION.

**SECTION 300/400/500**

12. FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:

AGGREGATE BASE COURSE.....@ 133 LBS./CU. FT.

13. WHERE IT IS REQUIRED TO SAWCUT EXISTING PAVEMENT OR CONCRETE, THE CUTTING SHALL BE DONE TO A NEAT LINE WITH A CUTTING SAW OR OTHER METHOD APPROVED BY THE ENGINEER. CUT FACES SHALL NOT REMAIN OVER NIGHT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT BE CONSIDERED AS SUBSIDIARY TO THE WORK.

**SECTION 600**

14. THIS PROJECT IS CLASSIFIED AS "NON-SIGNIFICANT". CONTRACTOR'S TRANSPORTATION MANAGEMENT PLAN SHALL CONSIST OF TRAFFIC CONTROL PLAN AND PUBLIC INFORMATION SERVICES.
15. THE CONTRACTOR SHALL CLEAN THE SANITARY FACILITY A MINIMUM OF TWICE PER WEEK. THE COST OF CLEANING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST.
16. A FIELD LABORATORY CLASS 2 IS REQUIRED FOR THIS PROJECT WITH HIGH SPEED INTERNET FOR LIMS ACCESS.

**UTILITIES**

17. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS AND THE UTILITY PROJECT SPECIAL PROVISIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH UTILITY OWNERS IN THEIR REMOVAL, ADJUSTMENT AND/OR RELOCATION OPERATIONS SO THAT THE UTILITY WORK CAN BE ACCOMPLISHED WITHOUT IMPACTING THE CONSTRUCTION SCHEDULE.
18. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENT") WHEN EXCAVATING 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 OPERATION. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 1-800-922-1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. CDOT LOCATES ARE REQUIRED THROUGH UNCC. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AT AREAS OF EXCAVATION AS NECESSARY TO ENSURE THE UTILITIES WILL NOT BE IMPACTED. IT IS ESTIMATED THAT 8 HOURS OF POTHOLING WILL BE REQUIRED ON THIS PROJECT AS DIRECTED THE PROJECT ENGINEER.
20. THERE ARE POSSIBLE UTILITY CONFLICTS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL REQUEST AND SHALL HAVE RECEIVED UTILITY LOCATES PRIOR TO COMMENCING ANY TYPE OF EXCAVATION. BASED UPON THESE LOCATES, IMPROVEMENTS MAY NEED TO BE ADJUSTED AS DIRECTED BY THE ENGINEER TO AVOID A UTILITY. HAND DIGGING MAY BE REQUIRED. WHEN EXCAVATION OPERATIONS OCCUR WITHIN TWENTY-FOUR INCHES OF AN ESTIMATED UNDERGROUND UTILITY INSTALLATION, THE EXACT LOCATION OF THE INSTALLATION SHALL BE DETERMINED BY NONDESTRUCTIVE MEANS.

**ENVIRONMENTAL**


21. WATER SOURCE REQUIRED FOR MOISTURE DENSITY CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE FREE OF EXCESSIVE SEDIMENTS OR OTHER CONTAMINATES THAT MAY BE DETRIMENTAL TO EMBANKMENTS, SUBBASES, AND BASE COURSE MATERIALS.
22. STORMWATER MANAGEMENT MAY REQUIRE MULTIPLE SEEDING OPERATIONS. THESE MULTIPLE OPERATIONS SHALL BE INCLUDED IN THE COST OF SEEDING AND MULCHING.
23. 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 SPECIFICATION SHALL BE FOLLOWED. ANY CONTAMINATED SOILS OR LANDFILL MATERIAL SHALL BE PROPERLY HANDLED AND SAMPLED PRIOR TO DISPOSAL.
24. KEEP ALL STAGING, PARKING, AND MATERIAL STOCKPILES TO PREVIOUSLY DISTURBED AREAS.

**MISCELLANEOUS**

25. A PRECONSTRUCTION CONFERENCE WITH THE TOWN OF PALISADE AND CDOT SHALL BE HELD PRIOR TO ANY WORK. ALL SUBMITTALS SHALL BE DUE AT THAT TIME.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL APPLICABLE PERMITS.

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5690 DTC BOULEVARD, SUITE 330W  
 GREENWOOD VILLAGE, CO 80111  
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 FAX: 303-221-2331  
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Sheet Revisions		
Date:	Comments	Init.



**Town of Palisade, Colorado**  
 175 East 3rd Street  
 P.O. Box 128  
 Palisade, CO 81526  
 Phone: 970-464-5602

<b>As Constructed</b>
No Revisions:
Revised:
Void:

<b>GENERAL NOTES</b>			
Designer:	JLS	Structure Numbers	
Detailer:	LAJ		
Sheet Subset:	NOTES	Subset Sheets:	01 of 02

<b>Project No./Code</b>
TAP M021-001
23616
Sheet Number 4 of 28



27. IN ACCORDANCE WITH SECTION 107.12, THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. CONSTRUCTION ACTIVITIES, IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES SHALL INCLUDE, BUT NOT LIMITED TO PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER AND ANY OTHER ACTION WHICH WOULD ALTER THE EXISTING CONDITIONS.

28. ALL WORK SHALL BE COMPLETED ENTIRELY WITHIN THE EXISTING AND PROPOSED RIGHT OF WAY AND EASEMENTS AS DEFINED IN THE PLANS.


29. MISCELLANEOUS ITEMS THAT ARE ESTIMATED TO BE REQUIRED ON THIS PROJECT, AND USED AS DIRECTED BY THE ENGINEER, ARE AS FOLLOWS:

201-00000	CLEARING AND GRUBBING	LS	1
202-00000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
203-00010	EXCAVATION (COMPLETE IN PLACE)	CY	130
620-00020	SANITARY FACILITY	EACH	1
625-00000	CONSTRUCTION SURVEYING	LS	1
626-00000	MOBILIZATION	LS	1

30. THE UTILITY CONTACTS FOR THE PROJECT ARE:

UTILITY	CONTACT/EMAIL	PHONE
Lumen Fiber and Telephone	Chris Johnson Chris.johnson5@lumen.com	970-216-3152
Spectrum Fiber and Cable	Mark Kostelecky Mark.kostelecky@charter.com	970-623-9415
Xcel Energy Gas & Electric	Brian Gardner Brian.w.gardner@xcelenergy.com	
Town of Palisade Water	Jack Nickerson jnickerson@townofpalisade.org	720-289-1564
Town of Palisade Sanitary and Storm Sewer	Jack Nickerson jnickerson@townofpalisade.org	720-289-1564
Deeply Digital ITS Fiber	Jonathan Cook jcook@deeplydigital.com	970-497-5813
Palisade Irrigation District Private Irrigation	Dan Crabtree Dan.crabtree.pe@gmail.com	970-640-9481

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Print Date: 6/10/2024 File Name: 23616DES_GeneralNotes.dgn Horiz. Scale: 1:1	<b>Sheet Revisions</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Date:</th> <th style="width: 55%;">Comments</th> <th style="width: 30%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments	Init.													 <b>Town of Palisade, Colorado</b> 175 East 3rd Street P.O. Box 128 Palisade, CO 81526 Phone: 970-464-5602	<b>As Constructed</b> No Revisions: Revised: Void:	<b>GENERAL NOTES</b> Designer: JLS Detailer: LAJ Sheet Subset: NOTES Structure Numbers Subset Sheets: 02 of 02	<b>Project No./Code</b> TAP M021-001 23616 Sheet Number 5 of 28
Date:	Comments	Init.																		




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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY														PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	
			201-00000	Clearing and Grubbing	L S	1															1	
			202-00000	Removal of Structures and Obstructions	L S	1															1	
			202-00010	Removal of Tree	EACH	3															3	
			202-00200	Removal of Sidewalk	SY	22															22	
			202-00203	Removal of Curb and Gutter	LF	18															18	
			202-01000	Removal of Fence	LF	210															210	
			203-00010	Unclassified Excavation (Complete In Place)	CY	130															130	
			203-01597	Potholing	HOUR	8															8	
			207-00700	Topsoil (Onsite)	CY	274															274	
			208-00002	Erosion Log Type 1 (12 Inch)	LF	190															190	
			208-00035	Aggregate Bag	LF	36															36	
			208-00046	Pre-Fabricated Concrete Washout Structure (Type 1)	EACH	1															1	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	20															20	
			208-00106	Sweeping (Sediment Removal)	HOUR	10															10	
			208-00107	Removal of Trash	HOUR	10															10	
			210-00810	Reset Ground Sign	EACH	2															2	
			210-01710	Reset Valve	EACH	2															2	
			212-00050	Sod	SF	5,050															5,050	
			212-00700	Organic Fertilizer	LB	102															102	
			212-00701	Compost (Mechanically Applied)	CY	22.00															22.00	
			212-00703	Humate	LB	68.00															68.00	
			212-00706	Seeding (Native) Drill	ACRE	0															0	
			213-00002	Mulching (Weed Free Hay)	ACRE	0															0	
			213-00061	Mulch Tackifier	LB	15															15	
			217-00000	Herbicide Treatment	SY	1,650															1,650	
			304-06007	Aggregate Base Course (Class 6)	CY	109															109	
			412-00600	Concrete Pavement (6 Inch)	SY	41															41	
			608-00000	Concrete Sidewalk	SY	466															466	
			608-00010	Concrete Curb Ramp	SY	72															72	
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	13															13	
			620-00020	Sanitary Facility	EACH	1															1	
			625-00000	Construction Surveying	L S	1															1	
			626-00000	Mobilization	L S	1															1	


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Date:	Comments	Init.




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As Constructed	US 6 PALISADE SIDEWALK SUMMARY OF APPROX. QUANTITIES		Project No./Code
	No Revisions:		TAP M021-001
	Revised:	Designer: LAJ Detailer: LAJ	23616
	Void:	Sheet Subset: SAQ Subset Sheets: 01 of 02	Sheet Number 6 of 28

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY														PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	
			627-30210	Thermoplastic Pavement Marking (Xwalk-Stopline)	SF	80															80	
			630-00000	Flagging	HOUR	140															140	
			630-00007	Traffic Control Inspection	DAY	12															12	
			630-00012	Traffic Control Management	DAY	30															30	
			630-80340	Pedestrian Barricade (Ada)	LF	12															12	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	16															16	
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	4															4	
			630-80355	Portable Message Sign Panel	EACH	1															1	
			630-80360	Drum Channelizing Device	EACH	20															20	
			630-80380	Traffic Cone	EACH	40															40	
			700-70010	F/A Minor Contract Revisions	F A	1															1	
			700-70023	F/A On-The-Job Trainee	F A	1															1	
			700-70050	F/A Removal	F A	1															1	
			700-70310	F/A Landscaping	F A	1															1	
			700-70380	F/A Erosion Control	F A	1															1	


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As Constructed	US 6 PALISADE SIDEWALK SUMMARY OF APPROX. QUANTITIES	
No Revisions:	Designer: LAJ	Structure Numbers
Revised:	Detailer: LAJ	
Void:	Sheet Subset: SAQ	Subset Sheets: 02 of 02

Project No./Code
TAP M021-001
23616
Sheet Number 7 of 28



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

Format \*  
 3D Design Modeling Electronic Files \_\_\_\_\_  
 Horizontal Control Plans \_\_\_\_\_  
 Vertical Control Plans \_\_\_\_\_  
 Roadway Alignment \_\_\_\_\_  
 Original Terrain Data Electronic Files \_\_\_\_\_  
 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: \_\_\_\_\_

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)

- 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: \_\_\_\_\_

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

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

	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	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- Riprap (Perm) (Section 506)
- Slope and Ditch Paving (Section 507)

	Left Interval	Center Interval	Right Interval
Stationing	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- 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: \_\_\_\_\_

- 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 CDDT 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 \_\_\_\_\_ 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 CDDT 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

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Sheet Revisions		
Date:	Comments	Init.

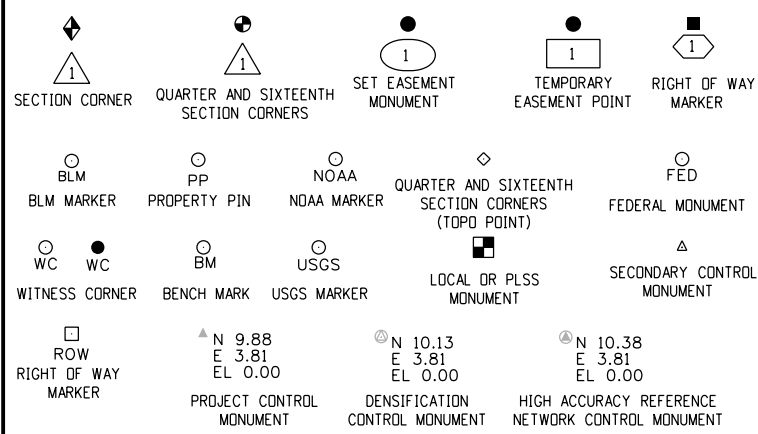
**Town of Palisade, Colorado**

175 East 3rd Street  
 P.O. Box 128  
 Palisade, CO 81526  
 Phone: 970-464-5602

As Constructed	SURVEY TABULATION SHEET		Project No./Code
No Revisions:			TAP M021-001
Revised:	Designer: LMV	Structure Numbers	23616
Void:	Detailer: LMV	Subset Sheets: 01 of 01	Sheet Number 8 of 28

Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials

Project/Land Survey Control Diagram			
Project Number: TAP M021-001			
Project Location: US 6C			
Palisade Sidewalks			
Project Code	Last Mod. Date	Subset	Sheet No.
23616	2-24-2023	3.01 to 3.04	3.01



# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

## PROJECT/LAND SURVEY CONTROL DIAGRAM

Highway US 6C MP 42.25 to MP 42.45  
 Sections 3 and 4  
 Township 1 South, Range 2 East  
 of the Ute Principal Meridian  
 Sections 8 and 9  
 Township 11 South, Range 98 West  
 of the 6th Principal Meridian  
 County of Mesa

SHEET NO.	INDEX OF SHEETS
3.01	(1) Title Sheet
3.02	(1) Coordinate Tables
3.03-3.04	(2) Plan Sheets
(4) Total Sheets	

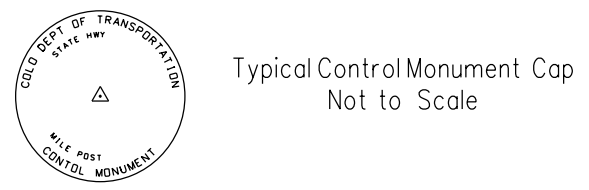
Basis of Bearings: Bearings used in the calculation of coordinates are based on a grid bearing of N79°29'14"E from J 416, MESA COUNTY SIMS GPS ID: P303, an NOAA Deep Rod set in a monument box to Mesa County Survey Marker 136, a 2.25" Brass Cap for the northeast corner of Section 2, Township 1 South, Range 2 East, of the Ute Principal Meridian. The survey data was obtained from a Global Positioning System (GPS) survey based on the National Spatial Reference System. Coordinates are based on existing control established by the Colorado Department of Transportation for Project No. C 0063-061 (dated August 5, 2020).

Basis of Elevation: Elevations are based on MESA COUNTY SIMS GPS ID: T0564, an 3.25" CDDOT aluminum cap on a 2.25" aluminum pipe set in a monument box stamped E 1/16 S 4 PLS 18478 2004, with an NAVD 88 elevation of 4709.98ft. T0564 is a RTK derived Benchmark.

COORDINATE DATUM: Coordinates are based on existing control established by the Colorado Department of Transportation Project Control Diagram for Project Number C 0063-061 (dated August 5, 2020).  
 Project coordinates are based on Mesa County Local Coordinate System: MCLCS Zone "GVA"  
 Projection: Transverse Mercator  
 Point of Origin: SN01 (Central Meridian):  
 Latitude: 39°06'22.72756"N  
 Longitude: 108°32'01.43463"W  
 Northing: 50,000 ft.  
 Easting: 100,000 ft.  
 Scale Factor: 1.0002181798  
 Project/Scale Factor Height: 4644.00ft(NAVD88)  
 Semi-major axis: 20925604.474  
 Flattening 298.2572229330  
 National Spatial Reference System is based on the NAD 83(2011) datum  
 Geoid Model: G12BUS  
 Units: US Survey Feet  
 Meter to feet conversion: US Survey Foot = 3937/1200

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.

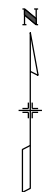
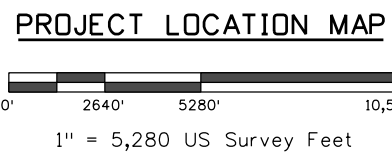
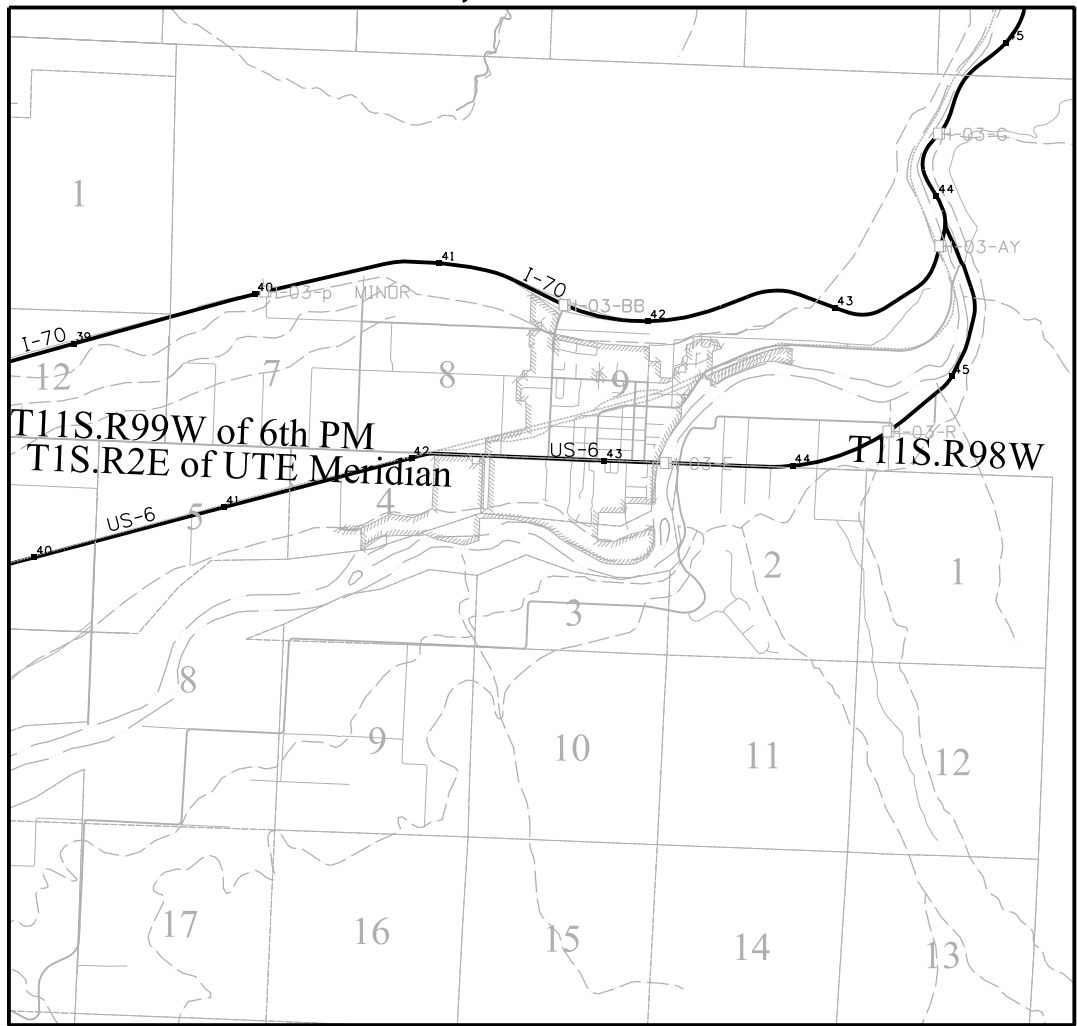
Note: For a complete listing of symbolology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight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



▲ CM-MP - Control Point Monuments set by CDDOT. They are CDDOT Type II monuments, a 3/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

General Notes:

1. This Project/Land Survey Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
2. Title policy, title commitment and title research are not part of this survey, therefore easements, rights and restrictions of record were not researched and are not shown on this diagram. The verification of the physical evidence with relation to easements, rights-of-way, property boundaries and restrictions, as described in the instruments of record, were not included in this land control diagram.
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 CDDOT 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 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.



SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)

I, *George A. Preiser*, 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. 29034

2/24/2023 gpreiser 3:47:21 PM C:\Users\gpreiser\OneDrive - Farnsworth Group, Inc\Desktop\US6-Palisade-0201275.01\SS2\_Drawings\201275SURV\_LSCD-TitleSht.dgn

Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials
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Project/Land Survey Control			
Diagram Coordinate Tables			
Project Number: TAP M021-001			
Project Location: US 6C			
Palisade Sidewalks			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23616	2-20-2023	3.01 to 3.04	3.02

**GEODETTIC COORDINATE TABLE**

Point No.	Geodetic Coordinates NAD-83(11) (NSRS)		Elip Height (m)	Ortho Height (NAVD88) (m)	Mapping Angle	Grid Scale Factor	NAD 83(11) Zone 0502		Description
	Latitude (N)	Longitude (W)					SP Northing (m)	SP Easting (m)	
MC01	39°05'28.39210" N	108°31'41.26977" W	1438.118	1455.054	-1°54'35.3"	0.99993592	448800.592	652488.219	MESA COUNTY COOP CORS ARP MC01
MC02	39°00'52.89774" N	108°29'24.11237" W	1491.372	1508.16	-1°53'08.8"	0.99993704	440200.909	655502.810	MESA COUNTY COOP CORS ARP MC02
MC03	39°11'223.78512" N	108°43'50.18033" W	1380.102	1397.351	-2°02'15"	0.99993711	460355.965	635372.221	MESA COUNTY COOP CORS ARP MC03
P069	39°06'22.08378" N	108°21'59.79034" W	1420.068	1436.725	-1°48'29"	0.99993591	450002.152	666506.274	NW COR, S3,T1S,R2E,UTE
TO564	39°06'22.11198" N	108°22'16.52236" W	1418.938	1435.605	-1°48'39"	0.99993591	450015.714	666104.509	E 1/16th, S4,T1S,R2E,UTE
TO565	39°06'22.05936" N	108°21'43.05400" W	1421.601	1438.245	-1°48'18"	0.99993591	449988.725	666908.146	W 1/16th, S3,T1S,R2E,UTE

**PROJECT COORDINATE TABLE**

Point No.	Project Coordinates		Elev (ft) (NAVD88)	Description
	Northing (ft)	Easting (ft)		
MC01	44501.47	101590.24	4773.732	MESA COUNTY COOP CORS ARP MC01
MC02	16625.44	112420.16	4948.037	MESA COUNTY COOP CORS ARP MC02
MC03	80526.95	44184.83	4584.544	MESA COUNTY COOP CORS ARP MC03
P069	49978.49	147436.93	4713.660	NW COR, S3,T1S,R2E,UTE 3"BC
TO564	49978.95	146117.68	4709.980	E 1/16th, S4,T1S,R2E,UTE 3.25"CDOT AC
TO565	49978.48	148756.52	4718.640	W 1/16th, S3,T1S,R2E,UTE 3.25"CDOT AC
302	49948.10000	147044.07	4712.550	No.5 REBAR -Secondary control

**FOUND BOUNDARY MONUMENT COORDINATE TABLE**

Point No.	Northing (ft)	Easting (ft)	Description
30006	49902.11000	148096.81000	No. 4 Rebar 3.1AG
30007	49901.37000	148303.53000	2"AC DH SURVEYS INC.LS20677
30008	49900.96000	148437.83000	#5 REBAR
30009	49901.23000	148624.17000	2.5"OD STEEL POST 4-9
39394	49641.57000	147767.90000	2" AC DH SURVEYS INC.LS 20677
30677	49901.96000	147966.81000	2" AC ROLLAND ENG. LS 18469
30438	49882.27000	147763.68000	#5 REBAR-DISTURBED
30220	49948.42000	147766.83000	1.25"PPC QED WCLS 30111
39387	49549.93000	147457.92000	1.5"AC IN CONC. VISTA ENG.19597
39388	49460.61000	147457.96000	AP LOT18 DH SURVEYS INC LS20677
39389	49466.60000	147445.01000	AP LOT18 DH SURVEYS INC LS20677
39390	49348.52000	147437.79000	2" OD PIPE
39391	49664.23000	147407.68000	1.25" YPC QED LS 16413
39392	49663.10000	147265.73000	#5 REBAR
39393	49661.30000	147124.19000	#5 REBAR

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222 South 6th Street  
Grand Junction, CO 81501  
Phone: 970-683-6236 FAX: 970-683-6227

Region 3

BKB

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Farnsworth GROUP

5613 DTC PARKWAY, SUITE 1100  
GREENWOOD VILLAGE, CO 80111  
(303)692-8838 info@f-w.com

Project/Land Survey Control Diagram

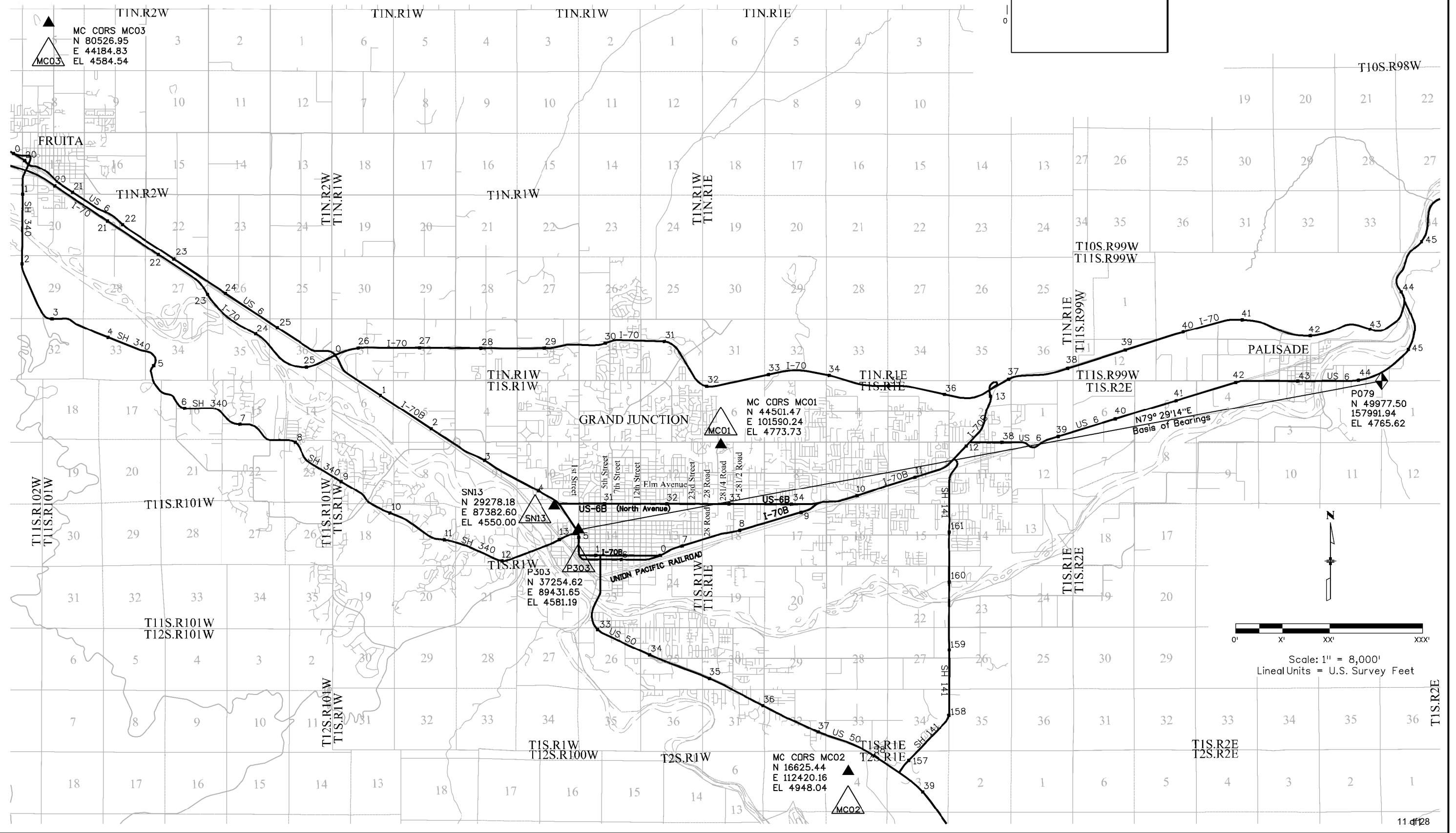
Plan Sheet

Project Number: TAP M021-001  
Project Location: US 6C

Palisade Sidewalks

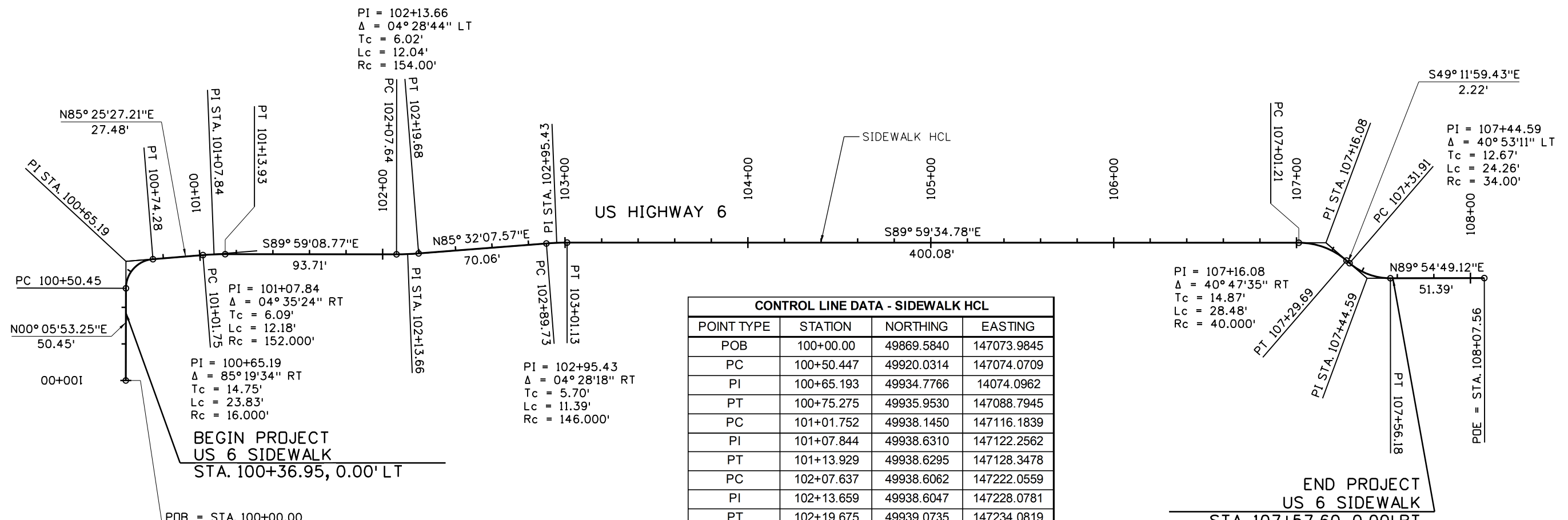
Project Code:	Last Mod. Date	Subset	Sheet No.
23616	2-21-2023	3.01 to 3.04	3.03

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CONTROL LINE DATA - SIDEWALK HCL			
POINT TYPE	STATION	NORTHING	EASTING
POB	100+00.00	49869.5840	147073.9845
PC	100+50.447	49920.0314	147074.0709
PI	100+65.193	49934.7766	14074.0962
PT	100+75.275	49935.9530	147088.7945
PC	101+01.752	49938.1450	147116.1839
PI	101+07.844	49938.6310	147122.2562
PT	101+13.929	49938.6295	147128.3478
PC	102+07.637	49938.6062	147222.0559
PI	102+13.659	49938.6047	147228.0781
PT	102+19.675	49939.0735	147234.0819
PC	102+89.734	49944.5270	147303.9279
PI	102+95.434	49944.9707	147309.6107
PT	103+01.128	49944.9700	147315.3108
PC	107+01.209	49944.9211	147715.3922
PI	107+16.083	49944.9193	147730.2653
PT	107+29.688	49935.2009	147741.5242
PC	107+31.913	49933.7471	147743.2084
PI	107+44.587	49925.4658	147752.8023
PT	107+56.176	49925.4849	147765.4760
POE	108+07.563	49925.5624	147816.8634

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 File Name: 23616DES\_GeomControlPlan01.dgn  
 Horiz. Scale: 1:60

5690 DTC BOULEVARD, SUITE 330W  
 GREENWOOD VILLAGE, CO 80111  
 PHONE: 303-221-2330  
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Date:	Comments	Init.

Town of Palisade, Colorado  
 175 East 3rd Street  
 P.O. Box 128  
 Palisade, CO 81526  
 Phone: 970-464-5602

As Constructed	No Revisions:
Revised:	
Void:	

US 6 PALISADE SIDEWALK  
 GEOMETRIC CONTROL PLAN

Designer: LMV	Structure Numbers
Detailer: LAJ	
Sheet Subset: GEOTCTRL	Subset Sheets: 01 of 01

Project No./Code	TAP M021-001
	23616
Sheet Number	12 of 28



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TABULATION OF REMOVALS														
LOCATION		202-00010		202-00200		202-00203		202-01000		210-00810		210-01710		REMARKS
STATION	SHEET	REMOVAL OF TREE		REMOVAL OF SIDEWALK		REMOVAL OF CURB AND GUTTER		REMOVAL OF FENCE		RESET GROUND SIGN		RESET VALVE		
		EACH		SY		LF		LF		EACH		EACH		
		Plan	As-Const.	Plan	As-Const.	Plan	As-Const.	Plan	As-Const.	Plan	As-Const.	Plan	As-Const.	
100+39.02	100+39.02					18								
100+39.03	100+68.91			19										
100+95.85	101+05.26							35						
101+00.36	101+81.78	3												
102+30.66	104.03.51											2		
103+96.29	104+01.84			1										
104+33.86	104+39.34			2										
104+47.72	104+54.44									2				STOP, SPEED LIMIT 40/END SCHOOL ZONE
105+21.62	105+46.16							25						
106+01.35	107+56.95							150						
<b>PROJECT TOTALS</b>		<b>3</b>		<b>22</b>		<b>18</b>		<b>210</b>		<b>2</b>		<b>2</b>		

Lyncoe 3:48:42 PM P:\4000.049.01 US 6 Palisade Sidewalks\Drawings\23616\Design\Drawings\23616DES\_RemovalTab.dgn

Print Date: 6/10/2024		Sheet Revisions				Town of Palisade, Colorado 175 East 3rd Street P.O. Box 128 Palisade, CO 81526 Phone: 970-464-5602	As Constructed		US 6 PALISADE SIDEWALK TABULATION OF REMOVALS			Project No./Code	
File Name: 23616DES_RemovalTab.dgn		Date:	Comments	Init.			No Revisions:	TAP M021-001					
Horiz. Scale: 1:1		5690 DTC BOULEVARD, SUITE 330W GREENWOOD VILLAGE, CO 80111 PHONE: 303-221-2330 FAX: 303-221-2331 WWW.STOLFUSANDASSOCIATES.COM						Revised:	Designer: LAJ	Structure Numbers	23616	Sheet Number	13 of 28
					Void:	Detailer: LAJ	Subset Sheets: 01 of 01						





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TABULATION OF SURFACING												
LOCATION		304-06007		412-00600		608-00000		608-00010		609-21020		REMARKS
		AGGREGATE BASE COURSE (CLASS 6)		CONCRETE PAVEMENT (6 INCH)		CONCRETE SIDEWALK		CONCRETE CURB RAMP		CURB AND GUTTER TYPE 2 (SECTION II-B)		
STATION	SHEET	CY		SY		SY		SY		LF		
		Plan	As-Const.	Plan	As-Const.	Plan	As-Const.	Plan	As-Const.	Plan	As-Const.	
100+36.95	100+45.94	2						14				
100+45.94	103+82.72	43				222						
103+82.72	104+03.41	4						25				
103+97.68	104+01.23									6		
104+32.29	104+52.98	4						26				
104+33.51	104+36.60									6		
104+52.98	104+60.00	1				5						
104+60.00	107+57.60	38						197		0		
105+59.42	105+96.38	6		37								
<b>SUBTOTAL</b>		<b>99</b>		<b>37</b>		<b>424</b>		<b>65</b>		<b>12</b>		
<b>CONTINGENCY</b>		<b>10</b>		<b>4</b>		<b>42</b>		<b>7</b>		<b>1</b>		
<b>PROJECT TOTALS</b>		<b>109</b>		<b>41</b>		<b>466</b>		<b>72</b>		<b>13</b>		

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Print Date: 6/10/2024		<b>Sheet Revisions</b>				<b>As Constructed</b> No Revisions:  Revised:  Void:	<b>US 6 PALISADE SIDEWALK SURFACING TABULATION</b>			<b>Project No./Code</b>	
File Name: 23616DES_RoadwayTab.dgn		Date:	Comments	Init.						TAP M021-001	
Horiz. Scale: 1:1		5690 DTC BOULEVARD, SUITE 330W GREENWOOD VILLAGE, CO 80111 PHONE: 303-221-2330 FAX: 303-221-2331 WWW.STOLFUSANDASSOCIATES.COM						175 East 3rd Street P.O. Box 128 Palisade, CO 81526 Phone: 970-464-5602	Designer: LAJ Detailer: LAJ	Structure Numbers	Sheet Subset: SURF TAB Subset Sheets: 01 of 01



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SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES (INFORMATION ONLY)						
SIGNS						
SIGN CODE	LEGEND	DIMENSION (IN X IN)	QTY	PANEL SIZE		
				A	B	C
G20-2	END/ROAD/WORK	36 X 18	2	2		
G20-10	XYZ/CONSTRUCTION/THANKS YOU/XXX-XXX-XXX	48 X 48	2		2	
G20-11	ROAD WORK/MMYY-MMY/FOR INFORMATION/XXX-XXX-XXX	48 X 48	2		2	
R9-9	SIDEWALK/CLOSED	24 X 12	2	2		
	RIGHT/SHOULDER/CLOSED	36 X 36	1	1		
	1500/FT	24 X 18	1	1		
	ROAD/WORK/AHEAD	36 X 36	1	1		
	ROAD/WORK/ONE/MILE	36 X 36	1	1		
	SHOULDER/WORK	36 X 36	1	1		
	ROAD/NARROWS	36 X 36	1	1		
W20-1	ROAD/WORK/AHEAD	36 X 36	2	2		
W20-4	ONE/LANE/ROAD/AHEAD	36 X 36	2	2		
W20-7	FLAGGER	36 X 36	2	2		
				16	4	0

SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES			
ITEM NUMBER	ITEM DESCRIPTION	UNIT	PROJECT TOTALS
630-00000	FLAGGING	HOUR	140
630-00007	TRAFFIC CONTROL INSPECTION	DAY	12
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	30
630-80340	PEDESTRIAN BARRICADE (ADA)	LF	12
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	16
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	4
630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	1
630-80360	DRUM CHANNELIZING DEVICE	EACH	20
630-80380	TRAFFIC CONE	EACH	40

NOTES/ASSUMPTIONS:  
S-630-1 Cases 11 and 19.

TABULATION OF PAVEMENT MARKINGS	
627-30210	
PLAN SHEET #	THERMOPLASTIC PAVEMENT MARKING (XWALK-STOP LINE) (SF)
1 of 2	80
<b>SUBTOTAL (SF)</b>	<b>80</b>
<b>TOTAL (SF)</b>	<b>80</b>

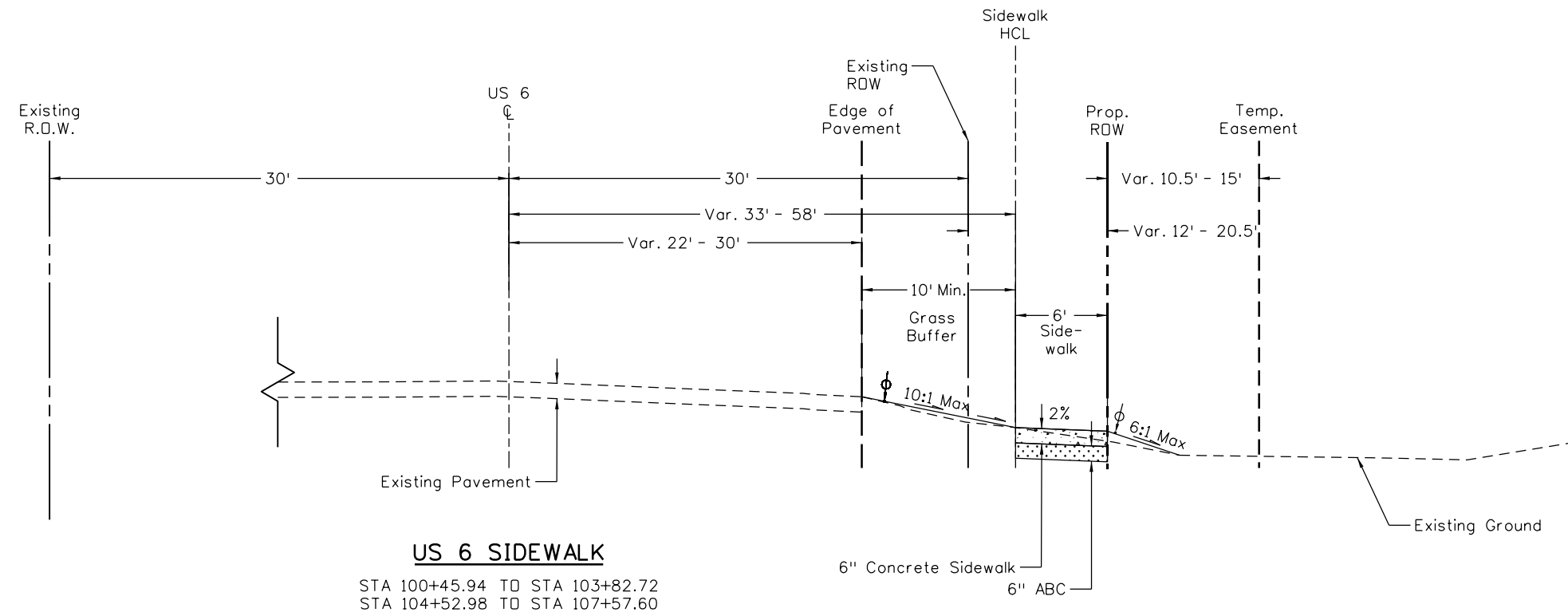
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Print Date: 6/10/2024		<b>Sheet Revisions</b>				<b>As Constructed</b> No Revisions:  Revised:  Void:	<b>US 6 PALISADE SIDEWALK TABULATION OF TRAFFIC ITEMS</b>		Project No./Code	
File Name: 23616DES_TrafficTab.dgn		Date:	Comments	Init.					TAP M021-001	
Horiz. Scale: 1:1										
	5690 DTC BOULEVARD, SUITE 330W GREENWOOD VILLAGE, CO 80111 PHONE: 303-221-2330 FAX: 303-221-2331 WWW.STOLFUSANDASSOCIATES.COM				175 East 3rd Street P.O. Box 128 Palisade, CO 81526 Phone: 970-464-5602	Designer: LAJ Detailer: LAJ	Structure Numbers	Sheet Subset: TRF TAB Subset Sheets: 01 of 01	Sheet Number 15 of 28	



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LEGEND	
HCL	- HORIZONTAL CONTROL LINE
Ⓞ	- CENTER LINE
ROW	- RIGHT OF WAY
ABC	- AGGREGATE BASE COURSE
ϕ	- 6" MINIMUM TOPSOIL



**US 6 SIDEWALK**

STA 100+45.94 TO STA 103+82.72  
STA 104+52.98 TO STA 107+57.60

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Print Date: 6/10/2024		<b>Sheet Revisions</b>				<b>Town of Palisade, Colorado</b> 175 East 3rd Street P.O. Box 128 Palisade, CO 81526 Phone: 970-464-5602	<b>As Constructed</b>		<b>US 6 PALISADE SIDEWALK TYPICAL SECTIONS</b>		<b>Project No./Code</b>		
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Horiz. Scale: 1:10							Revised:	Sheet Subset: TYP SEC		Subset Sheets: 01 of 01		23616	
	5690 DTC BOULEVARD, SUITE 330W GREENWOOD VILLAGE, CO 80111 PHONE: 303-221-2330 FAX: 303-221-2331 WWW.STOLFUSANDASSOCIATES.COM											Sheet Number 16 of 28	

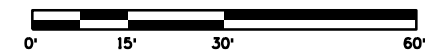
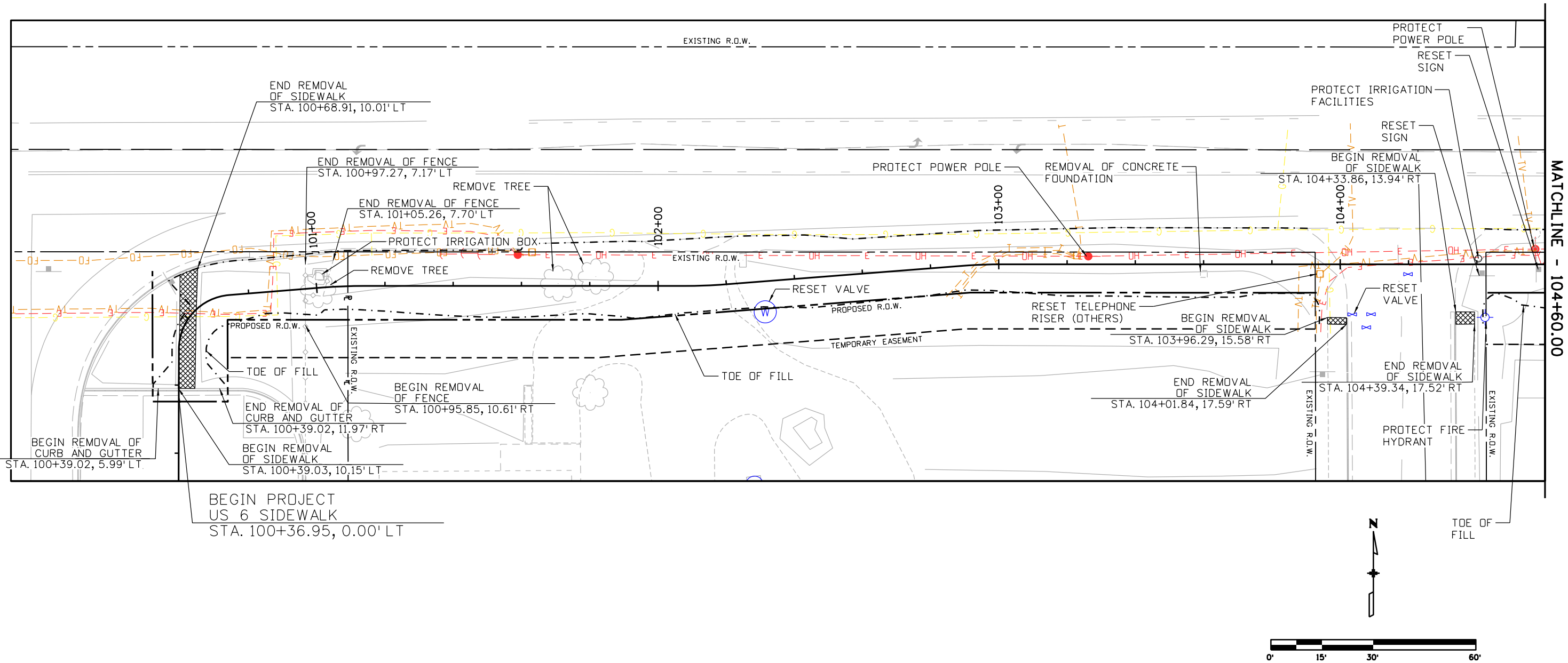




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LEGEND

REMOVAL OF SIDEWALK



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Print Date: 6/10/2024  
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Date:	Comments	Init.



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 175 East 3rd Street  
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 Palisade, CO 81526  
 Phone: 970-464-5602

<b>As Constructed</b>
No Revisions:
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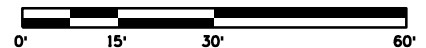
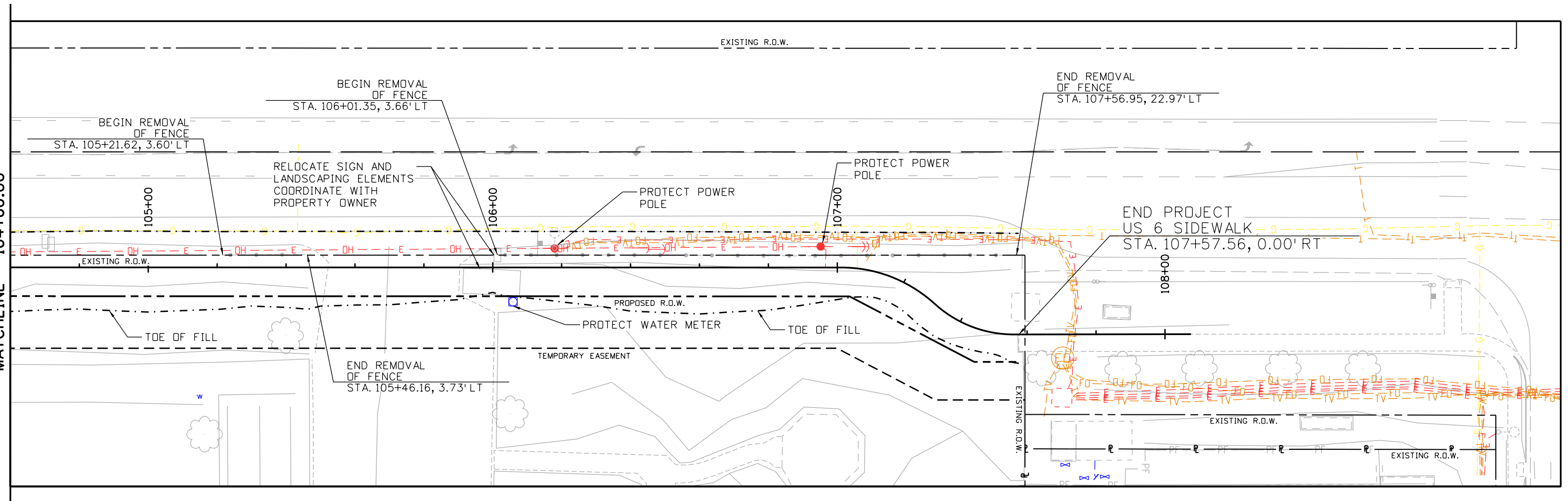
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Designer:	LMV	Structure Numbers	
Detailer:	LAJ		
Sheet Subset:	REMOVALS	Subset Sheets:	01 of 02

<b>Project No./Code</b>
TAP M021-001
23616
Sheet Number 17 of 28



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 File Name: 23616DES\_Removals02.dgn  
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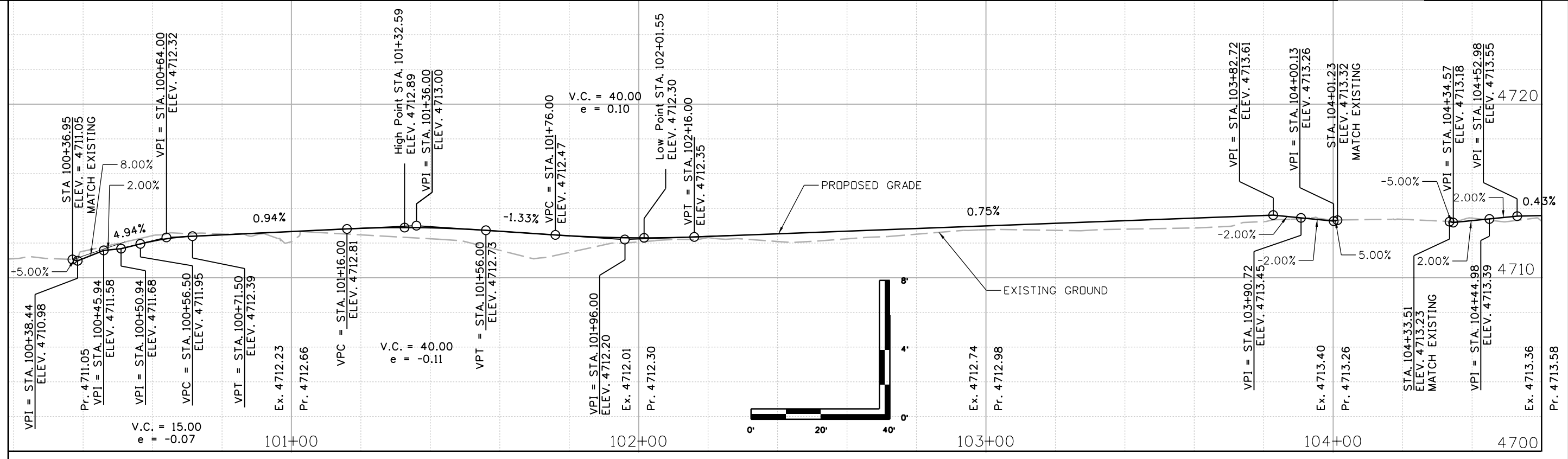
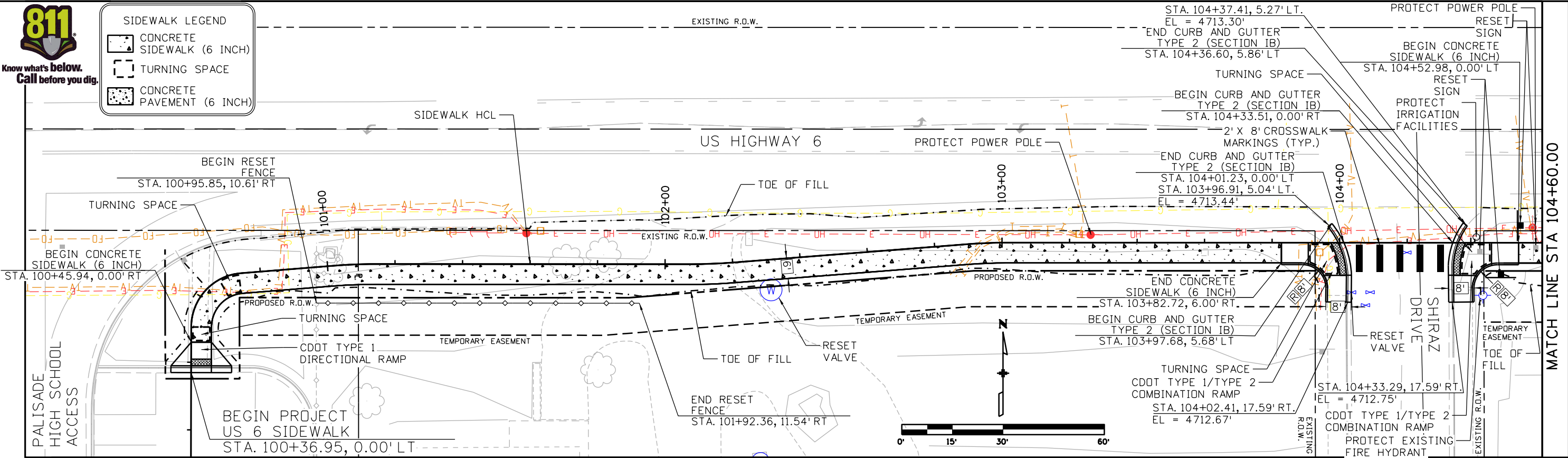
As Constructed
No Revisions:
Revised:
Void:

US 6 PALISADE SIDEWALK REMOVAL PLAN			
Designer:	LMV	Structure Numbers	
Detailer:	LAJ		
Sheet Subset:	REMOVALS	Subset Sheets:	02 of 02

Project No./Code
TAP M021-001
23616
Sheet Number 18 of 28



SIDEWALK LEGEND	
	CONCRETE SIDEWALK (6 INCH)
	TURNING SPACE
	CONCRETE PAVEMENT (6 INCH)



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Print Date: 6/10/2024  
 File Name: 23616DES\_PlanandProfile01.dgn  
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Date:	Comments	Init.

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 P.O. Box 128  
 Palisade, CO 81526  
 Phone: 970-464-5602

As Constructed
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US 6 PALISADE SIDEWALK PLAN AND PROFILE			
Designer:	LMV	Structure Numbers	
Detailer:	LAJ	Subset Sheets:	01 of 02
Sheet Subset: PLN & PRF			

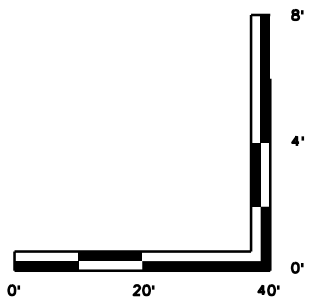
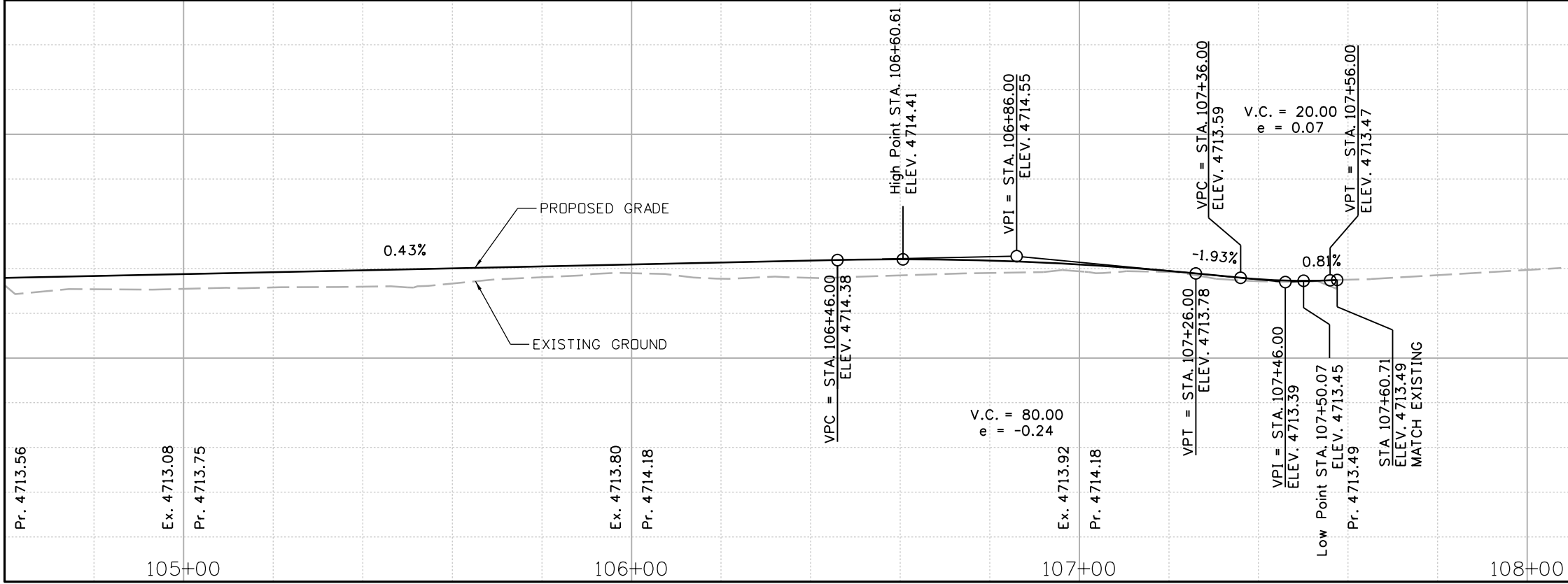
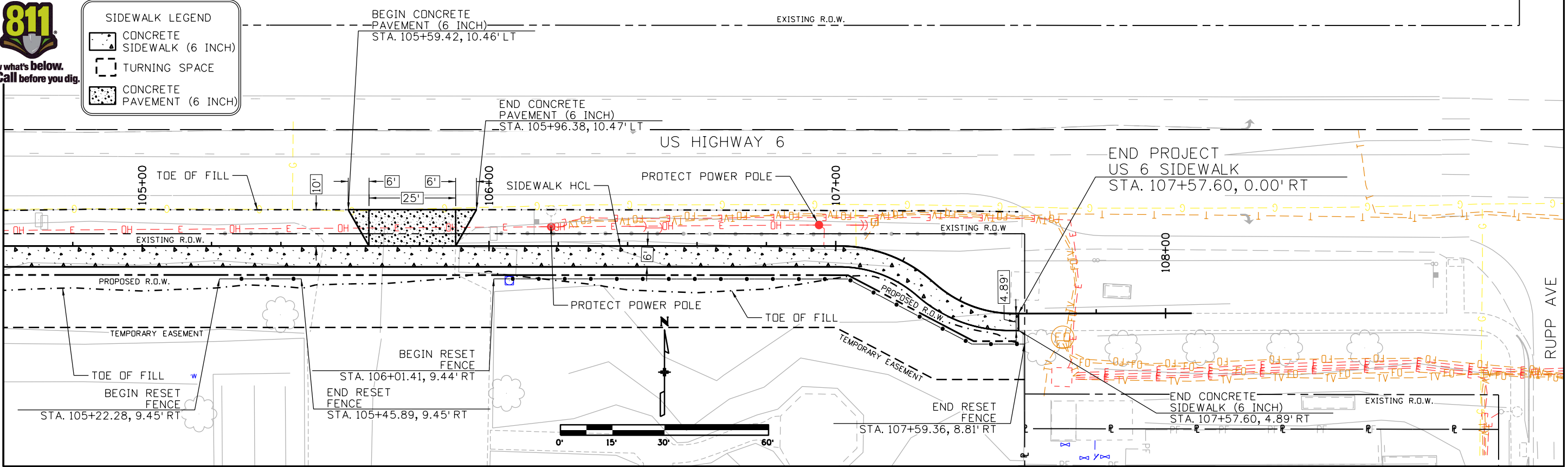
Project No./Code	
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23616	
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Know what's below.  
Call before you dig.

SIDEWALK LEGEND	
	CONCRETE SIDEWALK (6 INCH)
	TURNING SPACE
	CONCRETE PAVEMENT (6 INCH)

MATCH LINE STA 104+60.00



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US 6 PALISADE SIDEWALK PLAN AND PROFILE			
Designer:	LMV	Structure Numbers	
Detailer:	LAJ	Subset Sheets:	02 of 02
Sheet Subset:	PLN & PRF		

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**1. SITE DESCRIPTION**

The Contractor shall comply with all CDOT contractual requirements. The SWMP Administrator for Construction shall update to reflect current project site conditions.

**A. PROJECT SITE LOCATION:**

Location or address of construction office: This project is located along the south side US 6 between the Palisade High School and Rupp Avenue in Palisade, located in Mesa County, Colorado.

**B. PROJECT SITE DESCRIPTION:**

This project includes constructing a separated sidewalk and curb ramps on the south side of US 6 to connect the Palisade High School to the US 6 south frontage road.

**C. PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:**

Stabilize all areas that are not paved or landscaped through establishment of vegetation cover. Sequence includes:

1. Survey staking
2. Erosion control measures
3. Clearing and grubbing
4. Excavation and existing sidewalk removal
5. Sidewalk and curb ramp construction
6. Landscaping and final stabilization

**D. ACRES OF DISTURBANCE:**

1. Total area of construction site (LOC): 0.64 acres
2. Total area of proposed disturbance (LDA): 0.64 acres
3. Total area of seeding: 0.34 acres

**E. EXISTING SOIL DATA:**

Soil data from USGS surveyed in September of 2021 indicate native soils consist of silty clay loam with high to moderate erodibility.

Data Source(s): <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.html>

**2. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES**

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

**A. POTENTIAL POLLUTANT SOURCES**

Refer to Potential Pollutant Sources in SWMP Section 4A. Evaluate, identify and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place any Control Measures required to contain potential pollutants.

**B. OFFSITE DRAINAGE (RUN ON WATER):**

Place Control Measures to address run-on water in accordance with subsection 208.03.

**C. CONSTRUCTION DEWATERING:**

Obtain a CDPS Dewatering Permit from CDPHE if conditions of their Low Risk Guidance for Discharges of Uncontaminated Groundwater to Land are not met; see subsections 107.02 and 107.25.

Refer to CDPHE Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land.

<https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>

**D. VEHICLE TRACKING CONTROL:**

Control Measures shall be implemented in accordance with subsection 208.04.

**E. PERIMETER CONTROL:**

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 may consist of berms, silt fence, erosion logs, existing landforms, or other Control Measures as approved.

**3. QUALIFIED STORMWATER MANAGERS:**

**A. 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 #
Jenna Siegel, PE, PMP	303-221-2330, jenna@stolfusandassociates.com	EAC390BF

**B. SWMP ADMINISTRATOR FOR CONSTRUCTION:**

(As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction. 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) (Copy of TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	TECS Certification #	Start Date	Engineer Approval

**4. DURING CONSTRUCTION**

The SWMP should be considered a "living document" that is continuously reviewed and modified. During construction, the following items shall be added, updated, or amended as needed by the Contractor in accordance with Section 208

**A. MATERIALS HANDLING AND SPILL PREVENTION:**

prior to construction commencing the Contractor shall submit a Spill Prevention, Control and Countermeasure 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 wash out 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


**5. CONTROL MEASURE MAINTENANCE**

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

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As Constructed	US 6 PALISADE SIDEWALK STORMWATER MANAGEMENT PLAN			Project No./Code
No Revisions:				TAP M021-001
Revised:	Designer:	LMV	Structure Numbers	23616
Void:	Detailer:	LMV		
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**6. INTERIM AND PERMANENT STABILIZATION**

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
TBD		5
		3.75
		4.5
		4.25
		5
		2.5
<b>TOTAL</b>		<b>25</b>

**B. SEEDING APPLICATION:**

The following seeding methods shall be used for all areas which are not surfaced and as shown on the Permanent Stabilization Site Maps. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

Pay Item	Seeding Method (subsection 212.05)	Acre
212-00706	Seeding (Native) Drill	0.22
	<b>Total</b>	

The Contractor shall provide the location of where seed is stored and access to stored seed locations to the Engineer. Seed stored by the Contractor for longer than 30 days will be rejected.

**C. MULCHING APPLICATION:**

Apply a minimum of 2 tons/ac of certified weed free hay or 2 1/2 tons/ac of certified weed free straw per acre and in accordance with Section 213, and mechanically crimp it into the soil in combination with an organic mulch tackifier. Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier in accordance with Sections 208 and 213.

**D. SPECIAL REQUIREMENTS:**

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. Permanent stabilization mulching shall be accomplished within 24 hours of hydraulic application of native seed.

The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how the SWMP Permanent Stabilization Plans will be implemented to minimize damage to seeded areas.

**E. SOIL AMENDMENT REQUIREMENTS:**

Minimum amendment material requirements for all disturbances to receive seeding (native).

0.34 Total Acres of Seeding (Native) Drill with Topsoil Generated From Seeding Media and Topsoil (Offsite)

Seeding (Native) Drill Pay Item 212-00706	Pay Item	Description	Amount/Acre	Units	Total For This Method
	212-00700	Organic Fertilizer Low N	300	Pounds	102
	212-00703	Humate	200	Pounds	68
	212-00702	Compost (Mechanically Applied)	65	CY	22

**F. SOIL RETENTION COVERING:**

On slopes and ditches requiring a blanket or turf reinforcement mat (trm), the blanket/trm shall be placed in lieu of mulch and mulch tackifier and placed after seeding (native). See SWMP Site Map for blanket/trm locations.

**G. 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.

**H. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:**

Prior to partial acceptance.

All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Engineer 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.



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.

**7. PRIOR TO PROJECT FINAL ACCEPTANCE**

- When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap.
- Refer to Specification 208.10 for Items to be completed prior to requesting partial acceptance of water quality work

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File Name: 23616DES_SWMP_Template.dgn		Date:      Comments      Init.	Town of Palisade, Colorado	No Revisions:		TAP M021-001
Horiz. Scale: 1:1			175 East 3rd Street P.O. Box 128 Palisade, CO 81526 Phone: 970-464-5602	Revised:	Designer: LMV    Structure	23616
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					Sheet Subset: SWMP    Subset Sheets: 02 of 09	

**8. NARRATIVES:**

**Control Measure Matrixes During Construction:**

- 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).
- The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
- 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:

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 mature trees and/or existing landscaping prior to start of construction disturbances.					
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 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 start of construction disturbances.	M-208		X	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 stockpile, increase control as stockpile increases size.	M-208				
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		X	X	
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		X	X	
SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to 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 start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208				
TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208				
OUTLET PROTECTION	Material placed as energy dissipater to prevent erosion at outlet structure.	M-601-12				

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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
Riprap, or approved other						
CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to 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 start of construction disturbances.	M-208				
Engineered SEDIMENT BASIN	Constructed early in 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 ground water around 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.

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	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 Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth four 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 four 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	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)	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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**9. TABULATION OF STORMWATER QUANTITIES**

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

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

**11. NOTES**

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
	207-00700	Topsoil (Onsite)	CY			274	274
	208-00002	Erosion Log Type 1 (12 Inch)	LF	190			190
	208-00035	Aggregate Bag	LF	36			36
	208-00046	Prefabricated Concrete Washout Structure (Type 1)	Each	1			1
	208-00103	Removal and Disposal of Sediment (Labor)	Hour		20		20
	208-00106	Sweeping (Sediment Removal)	Hour		5	5	10
	208-00107	Removal of Trash	Hour		10		10
	212-00050	Scd	SF			5050	5050
	212-00700	Organic Fertilizer <b>Low N</b>	Pounds			102	102
	212-00701	Compost (Mechanically Applied)	CY			22	22
	212-00703	Humate	Pounds			68	68
	212-00706	Seeding (Native) Drill	Acre			0.22	0.22
	213-00002	Mulching (Weed Free Hay)	Acre			0.22	0.22
	213-00061	Mulch Tackifier	LB			15	15
	217-00000	Herbicide Treatment	SY			1650	1650
<b>X</b>	700-70380	F/A Erosion Control	FA				1
<b>X</b>	700-70310	F/A Landscaping	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. F/A refers to CDOT's Force Account Pay Items.


**10. BIOLOGICAL IMPACTS and DEWATERING**

- ENVIRONMENTAL IMPACTS:**  
 Wetland Impacts: NO  
 Stream Impacts: NO  
 Threatened and Endangered Species:
- 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>

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Print Date: 6/10/2024  
 File Name: 23616DES\_SWMP\_Template.dgn  
 Horiz. Scale: 1:1



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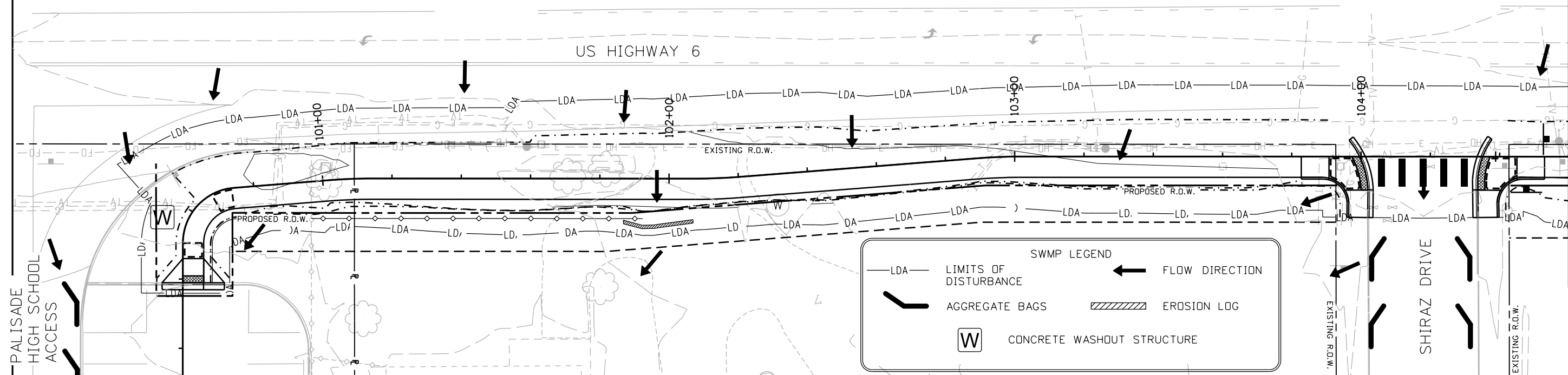
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Revised:	Designer: LMV	Structure Numbers	23616
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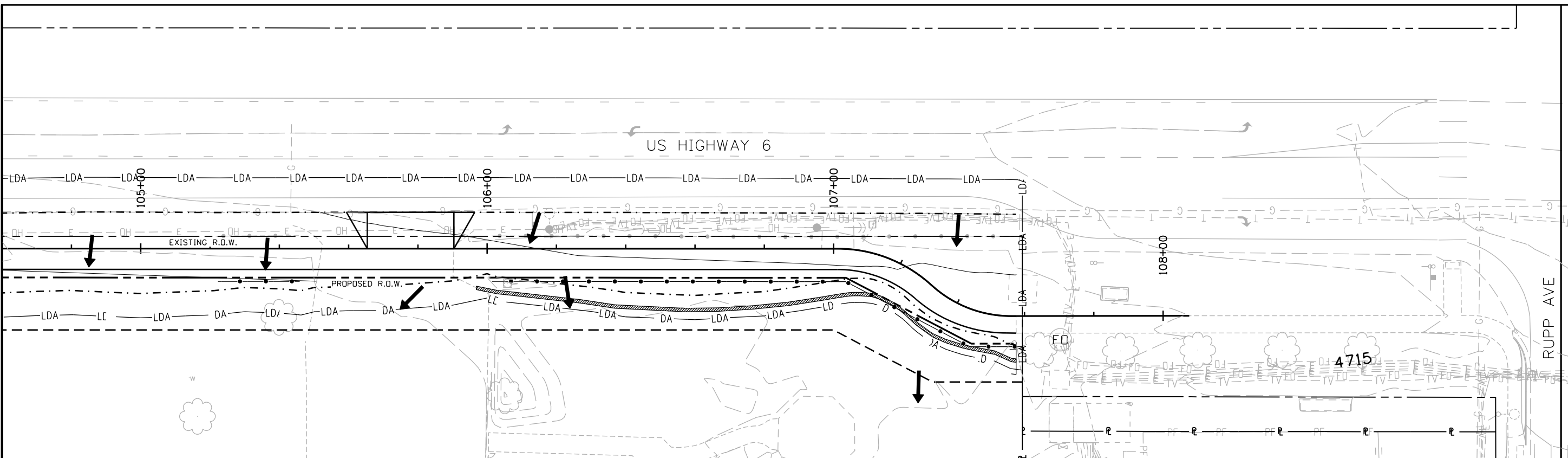
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US HIGHWAY 6



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US HIGHWAY 6



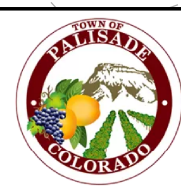
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US 6 PALISADE SIDEWALK STORMWATER MANAGEMENT PLAN INITIAL & INTERIM			
Designer:	LMV	Structure Numbers	
Detailer:	LMV		
Sheet Subset:	SWMP	Subset Sheets:	08 of 09

Project No./Code
TAP M021-001
23616
Sheet Number 27 of 28

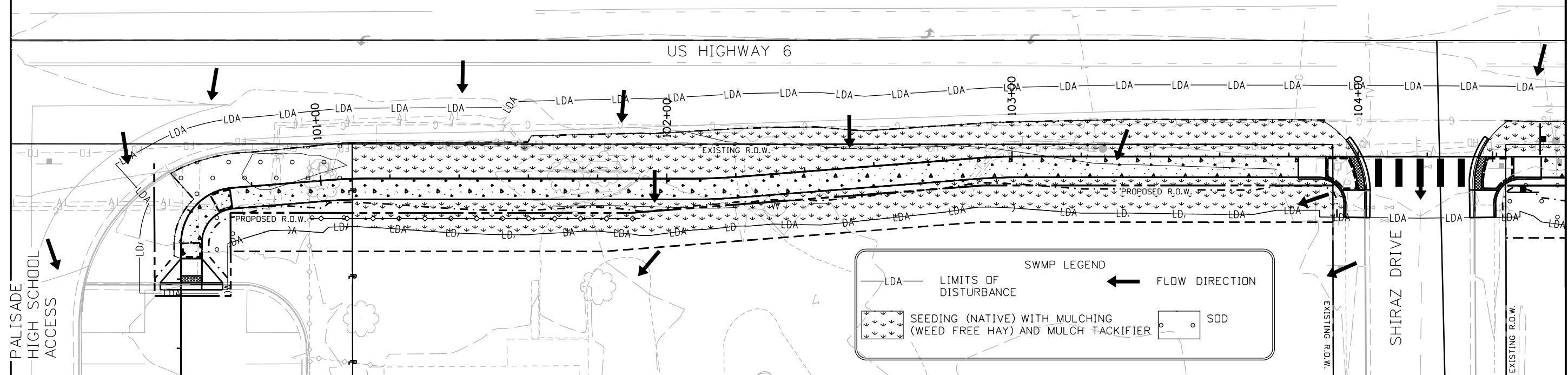
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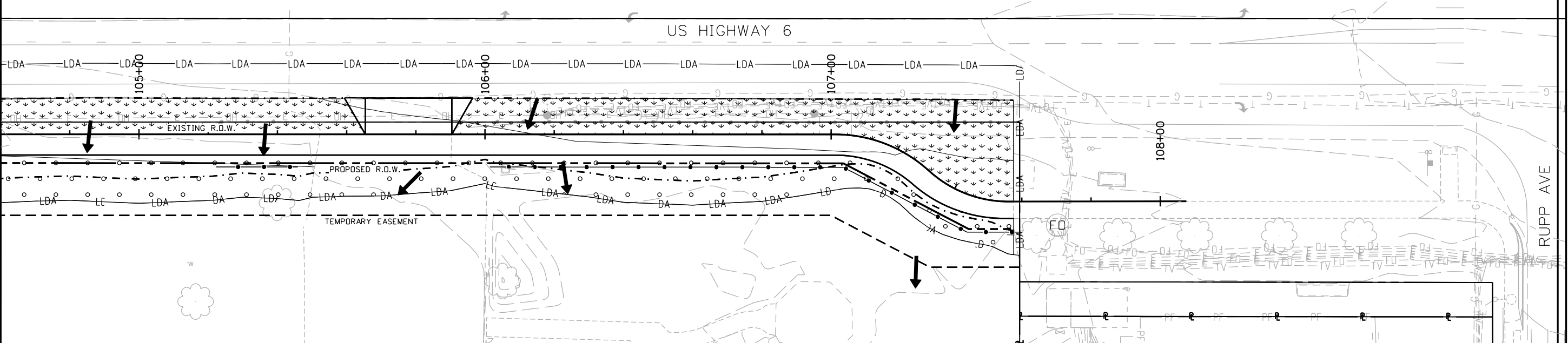
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US 6 PALISADE SIDEWALK  
STORMWATER MANAGEMENT PLAN  
FINAL

Designer:	LMV	Structure Numbers	
Detailer:	LMV		
Sheet Subset:	SWMP	Subset Sheets:	09 of 09

Project No./Code

TAP M021-001

23616

Sheet Number 28 of 28

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