

PoDI / NHS

FHWA PROJECT OF DIVISION INTEREST (PoDI)?  NO  YES

NATIONAL HIGHWAY SYSTEM?  NO  YES

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

**Related Projects:**

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

**R.O.W. Projects:**

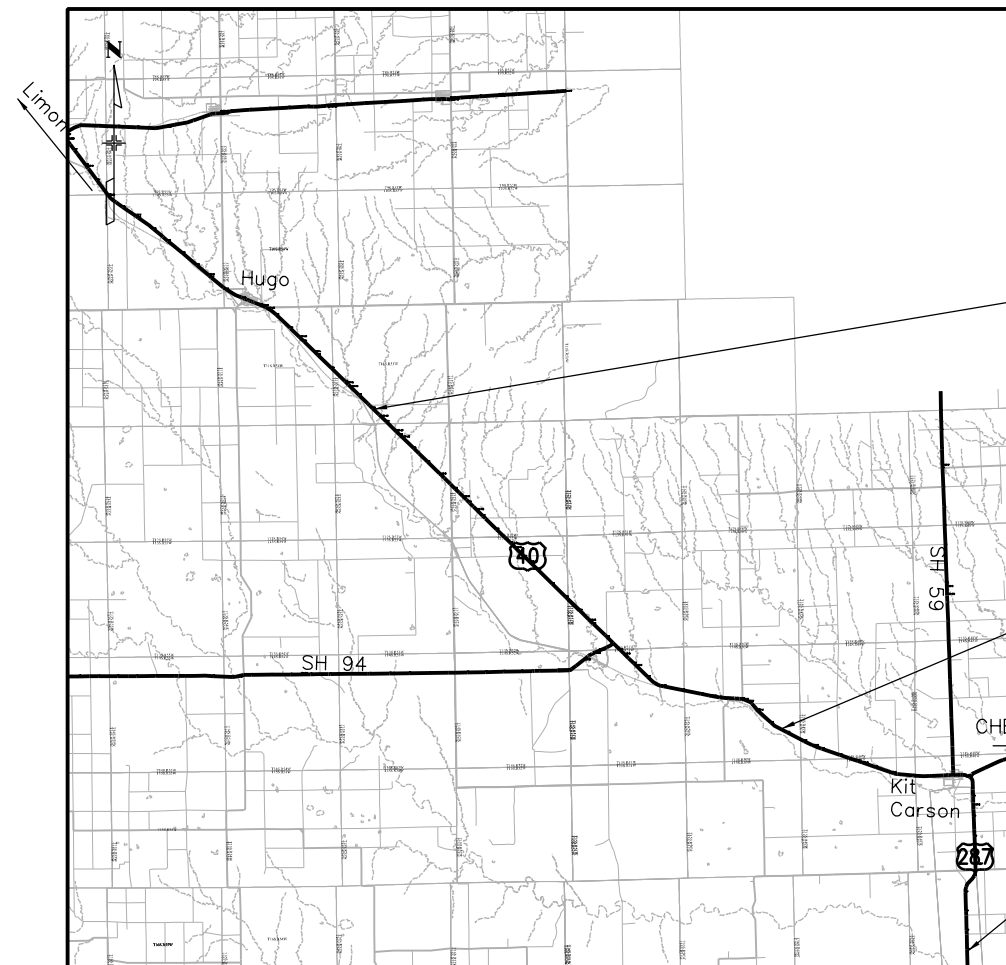
R.O.W. Project Description

**TABULATION OF LENGTH & DESIGN DATA**

STATION	FEET		
	Kit Carson US 287	Wild Horse US 287/SH 40	Rest Area US 287/SH 40
<b>APPROACH TO THE PROJECT</b>			
S. of Kit Carson - MP 122.23	5280		
Wild Horse - MP 434.89		5280	
Rest Area - MP 406.20			5280
<b>BEGIN PROJECT</b>			
S. of Kit Carson - STA. 30+20 on MP 123.23	6540		
Wild Horse - STA. 453+00 ON MP 435.89		6540	
Rest Area - STA. 651+00 on MP 407.20			6325
<b>END PROJECT</b>			
S. of Kit Carson - STA. 95+60 on MP 124.46			
Wild Horse - STA. 518+40 ON MP 437.13			
Rest Area - STA. 714+25 on MP 408.39			
<b>TOTAL (FT)</b>	11820	11820	11605
<b>SUMMARY OF PROJECT LENGTH (Miles)</b>	2.24	2.24	2.20
<b>MAJOR STRUCTURE (FT)</b>	0	0	0
<b>PROJECT GROSS LENGTH (FT)</b>	11820	11820	11605

<b>DESIGN DATA</b>	US 287	US 287/SH 40	US 287/SH 40
MAXIMUM RADIUS OF CURVE	1810 FT.	1810 FT.	1810 FT.
MAXIMUM GRADE	1.6%	1.6%	0.3%
MINIMUM S.S.D. HORIZONTAL	>730 FT.	>730 FT.	>730 FT.
MINIMUM S.S.D. VERTICAL	>730 FT.	>730 FT.	>730 FT.
MAXIMUM DESIGN SPEED	70 MPH	70 MPH	70 MPH
2037 DESIGN TRAFFIC	DHV = 11 4100	DHV = 11 ADT = 4000	DHV = 11 ADT = 2900
DHV TRUCK %	42%	41%	54%
CLEAR ZONE DISTANCE (TANGENT)	32 FT.	34 FT.	34 FT.
CLEAR ZONE DISTANCE (1810' MIN. RADIUS)	45 FT.	45 FT.	45 FT.
CONSTRUCTION CLEAR ZONE (MIN 18')	22 FT.	22 FT.	22 FT.

**HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED  
FEDERAL-AID PROJECT NO. NHPP R400-370  
STATE HIGHWAY NO. 40/287  
CHEYENNE COUNTY, LINCOLN COUNTY  
CONSTRUCTION PROJECT CODE NO. 22975**



**SHEET NO.**

**INDEX OF SHEETS**

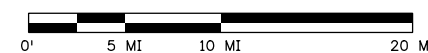
- |       |  |
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| 5     | General Notes  |
| 6-8   | Summary of Approximate Quantities                    |
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LOCATION #3  
BEGIN PROJECT MP 407.20  
END PROJECT MP 408.39

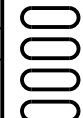
LOCATION #2  
BEGIN PROJECT MP 435.89  
END PROJECT MP 437.13

LOCATION #1  
BEGIN PROJECT MP 123.23  
END PROJECT MP 124.46

**PROJECT LOCATION MAP**



Print Date: 8/18/2020  
File Name: 22975\_DES\_TitleSht.dgn  
Horiz. Scale: 1:1      Vert. Scale: As Noted  
Unit Information      Unit Leader Initials



**Sheet Revisions**

Date:	Comments	Init.

Colorado Department of Transportation



10601 W. 10th St.  
Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

Region 4

KMK

**As Constructed**

No Revisions:  
Revised:  
Void:

**Contract Information**

Contractor:  
Resident Engineer:  
Project Engineer:  
PROJECT STARTED: / /      ACCEPTED: / /  
Comments:

**Project No./Code**

NHPP R400-370  
22975  
Sheet Number 1

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PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
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<input checked="" type="checkbox"/> M-203-1	APPROACH ROADS	8
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<input type="checkbox"/> M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	17-18
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**COLORADO**  
**DEPARTMENT OF TRANSPORTATION**  
**M&S STANDARDS PLANS LIST**  
 July 31, 2019  
 Revised on July 13, 2020

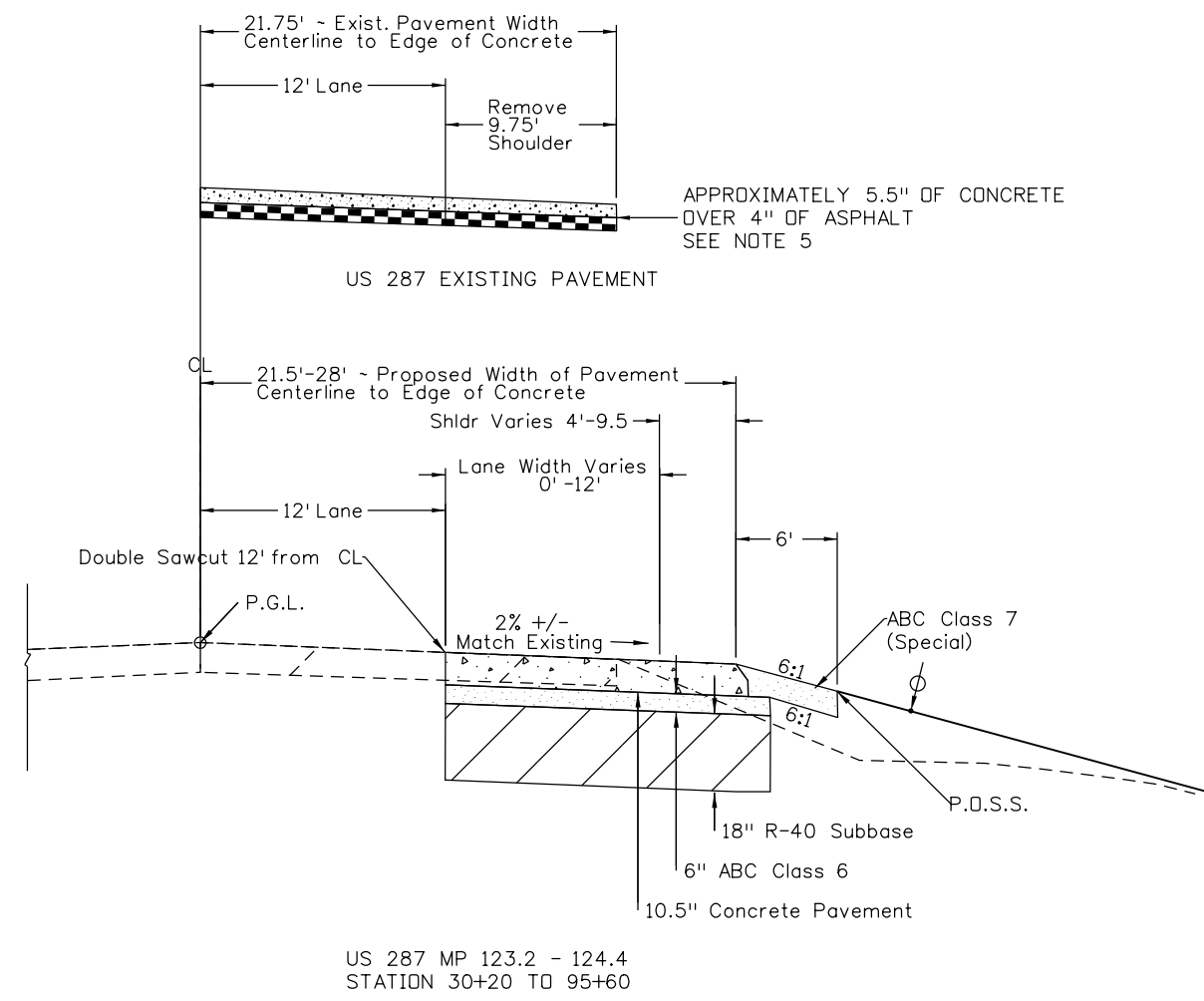
ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

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.

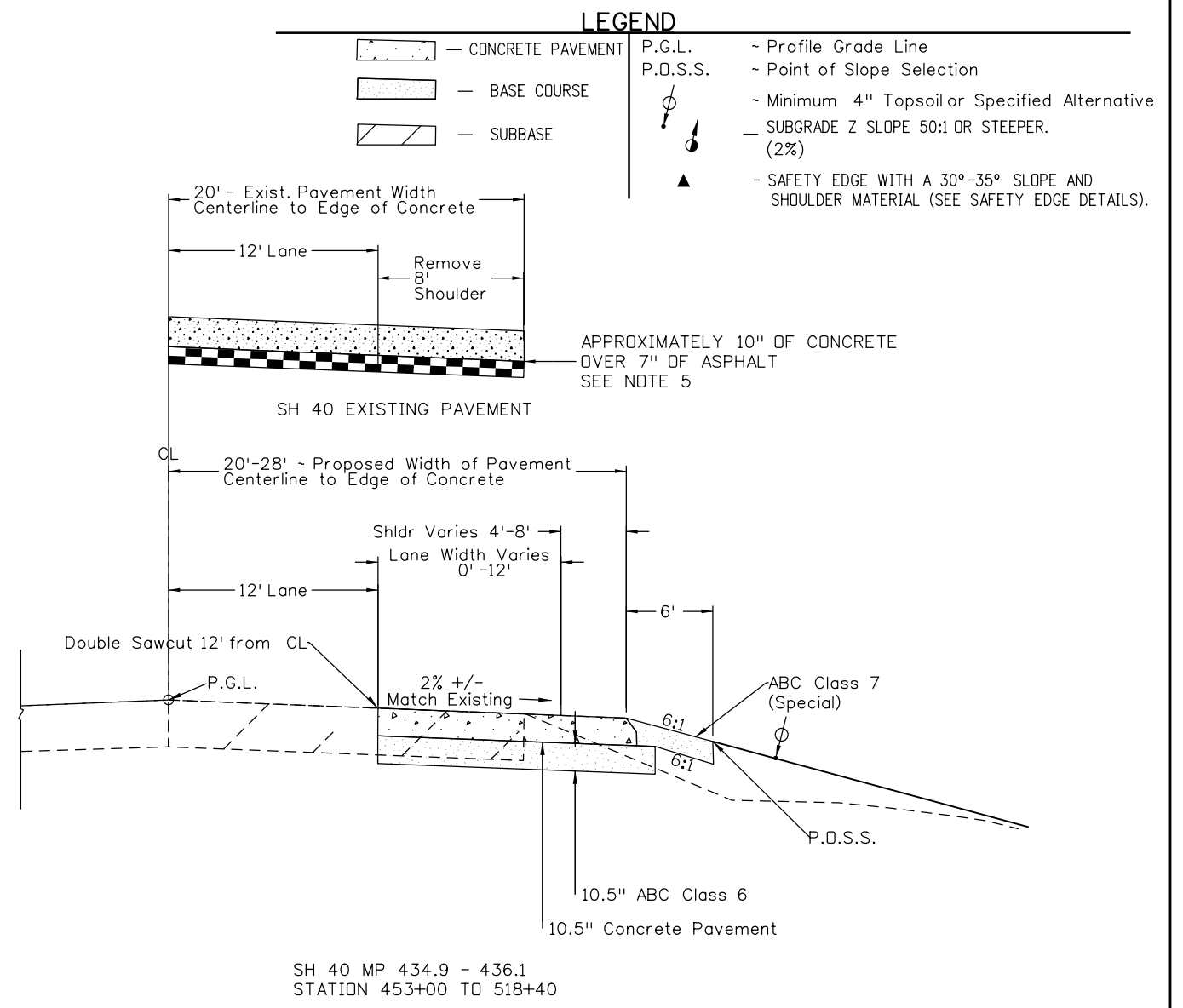
Print Date: 8/18/2020		<b>Sheet Revisions</b>				<b>As Constructed</b>		<b>STANDARD PLANS LIST</b>			<b>Project No./Code</b>	
File Name: 22975_DES_StdPlanList.dgn		Date:	Comments	Init.		No Revisions:				NHPP R400-370		
Horiz. Scale: 1:1      Vert. Scale: As Noted						Revised:	Designer:	MJS	Structure Numbers	22975		
Unit Information      Unit Leader Initials						Void:	Detailer:	MJS	Subset Sheets:	Sheet Number <b>2</b>		



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US 287 MP 123.2 - 124.4  
STATION 30+20 TO 95+60



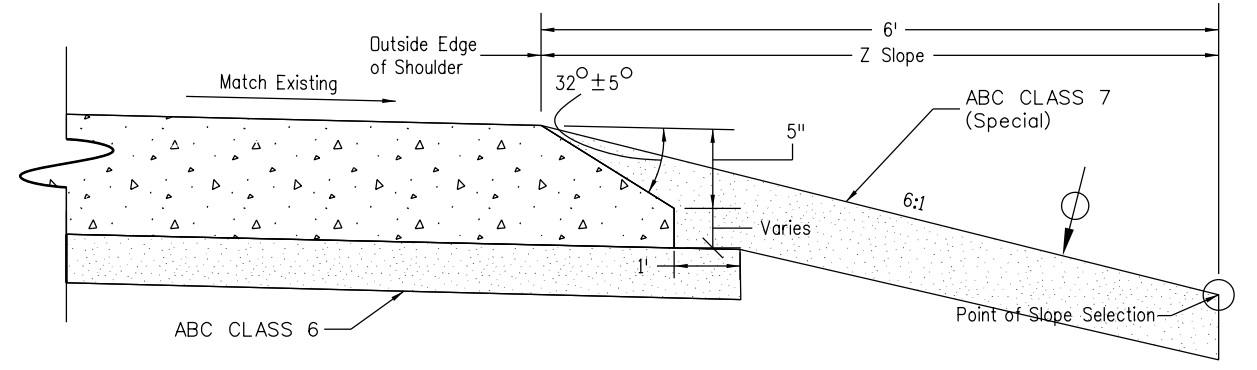
SH 40 MP 434.9 - 436.1  
STATION 453+00 TO 518+40

**LEGEND**

	CONCRETE PAVEMENT	P.G.L.	~ Profile Grade Line
	BASE COURSE	P.O.S.S.	~ Point of Slope Selection
	SUBBASE		~ Minimum 4" Topsoil or Specified Alternative
			~ SUBGRADE Z SLOPE 50:1 OR STEEPER. (2%)
			~ SAFETY EDGE WITH A 30°-35° SLOPE AND SHOULDER MATERIAL (SEE SAFETY EDGE DETAILS).

**GENERAL NOTES**

1. THE SAFETY EDGE WILL BE CONSTRUCTED AS PART OF THE ROADWAY PAVEMENT. A SHOULDER WEDGE DEVICE WILL BE ADDED TO THE SCREED OF THE PAVING MACHINE.
2. THE CONTRACTOR MAY USE A SHOULDER WEDGE MAKER OR A SIMILAR DEVICE THAT PRODUCES THE SAME COMPACTION RESULTS.
3. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS.
4. SITE PREPARATION AND ADDITIONAL EARTHWORK REQUIRED TO CONSTRUCT THE SAFETY EDGE WILL NOT PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
5. THE EXISTING CONCRETE AND ASPHALT SHOULDER WILL BE REMOVED TO ACCOMMODATE CONCRETE WIDENING AND SHALL BE PAID FOR AS REMOVAL OF CONCRETE PAVEMENT (SPECIAL), 202-00212. THE DEPTH OF EXISTING CONCRETE AND ASPHALT SHOULDER THAT IS PROVIDED ON THE PLANS IS FOR INFORMATION ONLY. THE DEPTH OF EXISTING PAVEMENT SHOULD BE EXPECTED TO VARY ACROSS LOCATIONS.
6. CONCRETE PAVEMENT DESIGNATED FOR REMOVAL SHALL BE DOUBLE SAWCUT FULL DEPTH TO TO A NEAT VERTICAL LINE. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
7. NEW CONCRETE SHALL BE TIED INTO EXISTING CONCRETE PAVEMENT PER M&S STANDARD M412-1. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK. NEW CONCRETE SHALL UTILIZE 1.5" DOWEL BARS.
8. NEW CONCRETE SHALL NOT CONTAIN RECLYCLED CONCRETE



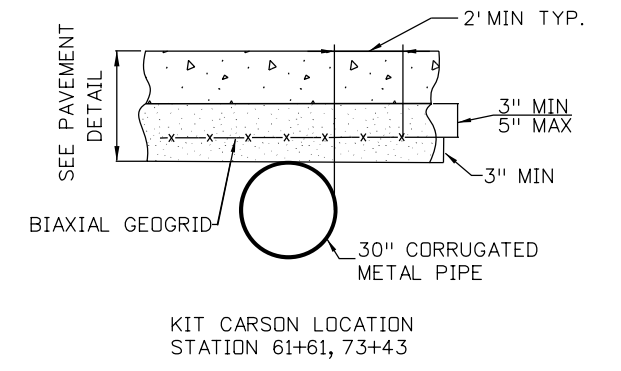
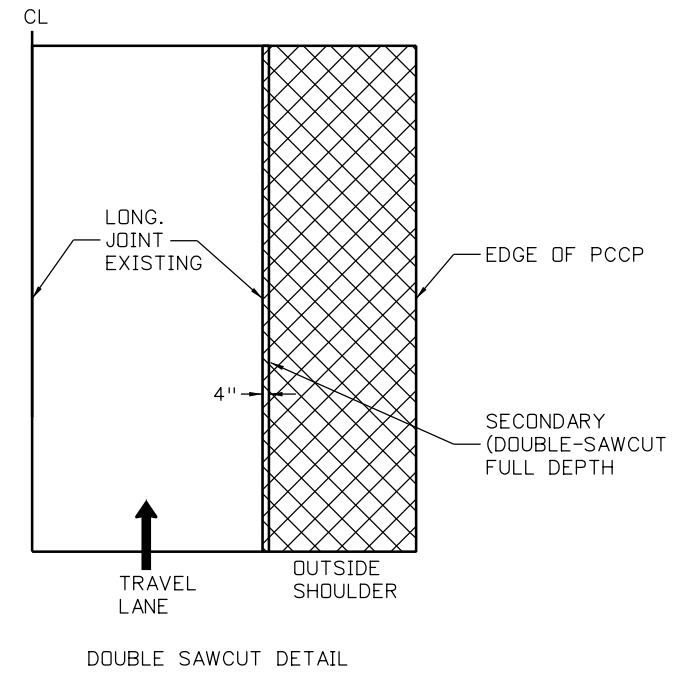
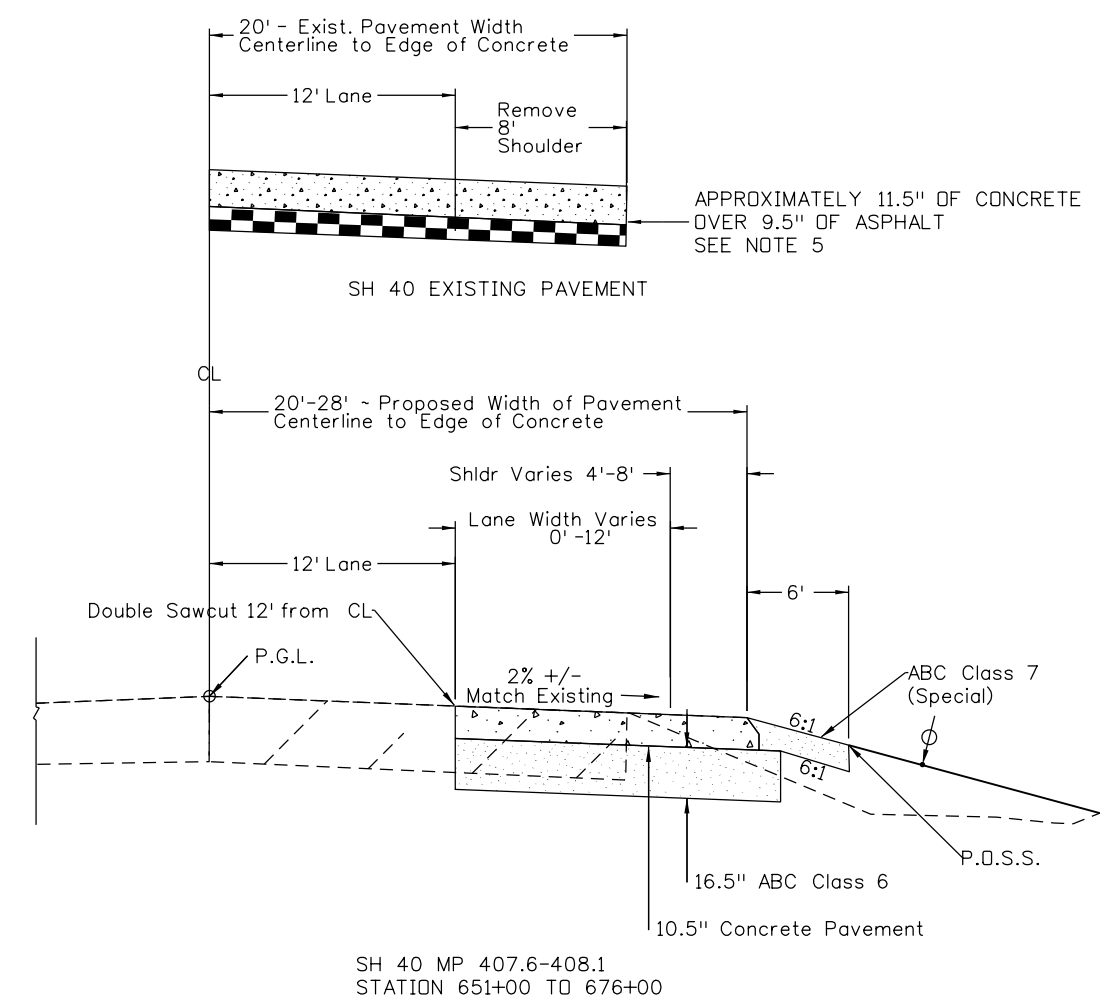
**SAFETY EDGE DETAIL FOR CONCRETE PAVEMENT  
GREATER THAN 5 INCHES**

Print Date: 8/18/2020		<b>Colorado Department of Transportation</b>  10601 W. 10th St. Greeley, CO 80634 Phone: 970-350-2211 FAX: 970-350-2198 <b>Region 4</b>	<b>As Constructed</b> No Revisions: Revised: Void:	<b>TYPICAL SECTIONS</b>			Project No./Code			
File Name: 22975_DES_TypSect.dgn							NHPP R400-370			
Horiz. Scale: NTS				Vert. Scale: NTS		<b>KMK</b>	Designer: MJS	Structure Numbers	22975	
Unit Information				Unit Leader Initials			Detailer: MJS	Sheet Subset:	Subset Sheets:	Sheet Number <b>3</b>

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**LEGEND**

- CONCRETE PAVEMENT
- BASE COURSE
- SUBBASE
- SHOULDER TO BE REMOVED
- P.G.L. ~ Profile Grade Line
- P.D.S.S. ~ Point of Slope Selection
- ~ Minimum 4" Topsoil or Specified Alternative
- SUBGRADE Z SLOPE 50:1 OR STEEPER. (2%)
- ~ SAFETY EDGE WITH A 30°-35° SLOPE AND SHOULDER MATERIAL (SEE SAFETY EDGE DETAILS).



**GENERAL NOTES**

1. THE SAFETY EDGE WILL BE CONSTRUCTED AS PART OF THE ROADWAY PAVEMENT. A SHOULDER WEDGE DEVICE WILL BE ADDED TO THE SCREED OF THE PAVING MACHINE.
2. THE CONTRACTOR MAY USE A SHOULDER WEDGE MAKER OR A SIMILAR DEVICE THAT PRODUCES THE SAME COMPACTION RESULTS.
3. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS.
4. SITE PREPARATION AND ADDITIONAL EARTHWORK REQUIRED TO CONSTRUCT THE SAFETY EDGE WILL NOT PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
5. THE EXISTING CONCRETE AND ASPHALT SHOULDER WILL BE REMOVED TO ACCOMMODATE CONCRETE WIDENING AND SHALL BE PAID FOR AS REMOVAL OF CONCRETE PAVEMENT (SPECIAL), 202-00212. THE DEPTH OF EXISTING CONCRETE AND ASPHALT SHOULDER THAT IS PROVIDED ON THE PLANS IS FOR INFORMATION ONLY. THE DEPTH OF EXISTING PAVEMENT SHOULD BE EXPECTED TO VARY ACROSS LOCATIONS.
6. CONCRETE PAVEMENT DESIGNATED FOR REMOVAL SHALL BE DOUBLE SAWCUT FULL DEPTH TO TO A NEAT VERTICAL LINE. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
7. NEW CONCRETE SHALL BE TIED INTO EXISTING CONCRETE PAVEMENT PER M&S STANDARD M412-1. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK. NEW CONCRETE SHALL UTILIZE 1.5" DOWEL BARS.
8. NEW CONCRETE SHALL NOT CONTAIN RECLYCLED CONCRETE

**DOUBLE SAWCUT NOTES**

1. DAMAGE TO EXISTING CONCRETE TO REMAIN IN PLACE, RESULTING FROM THE CONTRACTOR'S DRILLING AND CUTTING OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. ALL CONCRETE REMOVALS SHALL BE DOUBLE SAW CUT TO PROTECT THE ADJACENT SLABS FROM DAMAGE.
3. DOUBLE SAW CUTS SHALL BE THE FULL DEPTH OF CONCRETE SLAB AND SHALL BE COMPLETED PRIOR TO CONCRETE REMOVAL.
4. REMOVAL OF CONCRETE (SPECIAL) THICKNESSES VARY. SEE TYPICAL SECTION DETAILS AND GENERAL NOTE 5 FOR MORE INFORMATION.

Print Date: 8/18/2020		<b>Sheet Revisions</b>			Colorado Department of Transportation		As Constructed		TYPICAL SECTIONS			Project No./Code	
File Name: 22975_DES_TypSect.dgn		Date:	Comments	Init.	 10601 W. 10th St. Greeley, CO 80634 Phone: 970-350-2211 FAX: 970-350-2198		No Revisions:		Designer: MJS    Structure Detailer: MJS    Numbers Sheet Subset:    Subset Sheets:			NHPP R400-370	
Horiz. Scale: NTS    Vert. Scale: NTS							Revised:					22975	
Unit Information    Unit Leader Initials							Void:					Sheet Number	
							4						
					Region 4		MKM						

**GENERAL NOTES**

1. FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:  
AGGREGATE BASE COURSE CLASS-[6].....@ 133 LBS./CU. FT.
2. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
3. THE FOLLOWING SHALL BE FURNISHED WITH EACH CONCRETE PAVER:
  1. A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH.
  2. SHORT SKI OR SHOE.
  3. 6500 FEET OF CONTROL LINE AND STAKES.
4. ALL TRAVEL LANES ARE SUBJECT TO SMOOTHNESS INCENTIVE/DISINCENTIVE PAYMENTS. PAVEMENT SMOOTHNESS INCENTIVE/DISINCENTIVE SHALL BE BASED ON INCHES/MILE.
5. THOSE TRAVEL LANES SUBJECT TO MRI CATEGORY IV ARE NOT SUBJECT TO SMOOTHNESS INCENTIVE/DISINCENTIVE PAYMENTS, BUT WILL REQUIRE CORRECTIVE WORK IN ACCORDANCE WITH THE CONTRACT. SMOOTHNESS CATEGORIES FOR THIS PROJECT ARE AS FOLLOWS:  
MRI CATEGORY II
6. PUBLIC APPROACHES AND ENTRANCES TO BUILDING OR RESIDENCES SHALL BE PAVED IN ACCORDANCE WITH STANDARD PLAN M-203-1.
7. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREAS NOT APPROVED BY THE ENGINEER. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS AT THE CONTRACTORS EXPENSE.
8. THE SEVERITY OF SULFATE EXPOSURE FOR THIS PROJECT IS CLASS 2
9. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:  
FULL DEPTH OF ALL EMBANKMENTS:  
BASES OF CUTS AND FILLS 0.5 FEET.
10. 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.
11. THE MINIMUM THICKNESS OF TOPSOIL SHALL BE 4 INCHES. IT IS ESTIMATED THAT 1887 CU. YDS. WILL BE REQUIRED BASED ON THE AVERAGE THICKNESS OF 4 INCHES.
12. IT IS ESTIMATED THAT 399 GALLONS OF MODIFIED EPOXY PAVEMENT MARKING PAINT WILL BE REQUIRED ON THIS PROJECT AS FOLLOWS:  
WHITE.....277 GALLONS  
YELLOW.....122 GALLONS
13. IT IS ESTIMATED THAT 50 HOURS OF BLADING WILL BE REQUIRED AS DIRECTED BY THE ENGINEER.
14. IT IS ESTIMATED THAT 85 DAYS OF TRAFFIC CONTROL MANAGEMENT WILL BE REQUIRED ON THIS PROJECT.
15. IT IS ESTIMATED THAT 28 DAYS OF TRAFFIC CONTROL INSPECTION WILL BE REQUIRED ON THIS PROJECT.
16. IT IS ESTIMATED THAT 2750 HOURS OF FLAGGING WILL BE REQUIRED ON THIS PROJECT.
17. IT IS ESTIMATED THAT 3 SANITARY FACILITY WILL BE REQUIRED ON THIS PROJECT.
18. IT IS ESTIMATED THAT 1 PUBLIC INFORMATION SERVICES WILL BE REQUIRED ON THIS PROJECT.
19. CONCRETE QUALITY INCENTIVE WILL BE BASED ON FLEXURAL STRENGTH CRITERIA.
20. RECYCLED CONCRETE SHALL NOT BE ALLOWED IN THE CONCRETE PAVEMENT MIX DESIGN.
21. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL AFFECTED PROPERTY OWNERS AT ALL TIMES DURING CONSTRUCTION.
22. THE CONTRACTOR SHALL SUPPLY THE ENGINEER A CONSTRUCTION PHASING PLAN TWO WEEKS PRIOR TO ANY CONSTRUCTION THAT SHALL DETAIL ANY PROPOSED LANE CLOSURES. THE ENGINEER SHALL APPROVE THE WORK PRIOR TO ANY CONSTRUCTION.
23. THE CONTRACTOR SHALL CALL THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 TWO WEEKS BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

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Print Date: 8/18/2020		<b>Sheet Revisions</b>	<b>Colorado Department of Transportation</b>	<b>As Constructed</b>	<b>GENERAL NOTES</b>			<b>Project No./Code</b>	
File Name: 22975_DES_GenlNote1.dgn		Date:	Comments	Init.	No Revisions:				NHPP R400-370
Horiz. Scale: 1:1      Vert. Scale: As Noted					Revised:	Designer: MJS	Structure Numbers		22975
Unit Information      Unit Leader Initials					Void:	Detailer: MJS	Subset Sheets:		Sheet Number <b>5</b>
					Sheet Subset:				



**Region 4**

10601 W. 10th St.  
Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

**KMK**




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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY-Kit Carson				Roadway-Wild Horse				Roadway-Rest Area				PROJECT TOTALS				
BOOK	PAGE	SHEET				PLAN	AS CONST.					PLAN	AS CONST.					PLAN	AS CONST.			
			201-00001	Clearing and Grubbing	ACRE	2.5					4.3					1.6					8.4	
			202-00015	Removal of Headwall	EACH						1										1	
			202-00037	Removal of End Section	EACH	2										2					4	
			202-00090	Removal of Delineator	EACH	9					11					33					53	
			202-00212	Removal of Concrete Pavement (Special)	SY	7,085					5,813					2,378					15,276	
			202-00250	Removal of Pavement Marking	SF	15,664					16,741					11,378					43,783	
			202-00810	Removal of Ground Sign	EACH	1										3					4	
			202-04002	Clean Culvert	EACH	2					3					2					7	
			203-00010	Unclassified Excavation (Complete In Place)	CY	9,637					3,495					1,541					14,673	
			203-00066	Embankment Material (Complete In Place) (R40)	CY	5,890															5,890	
			203-01100	Proof Rolling	HOUR	5					5					3					13	
			203-01500	Blading	HOUR	20					20					10					50	
			206-00100	Structure Backfill (Class 1)	CY	16					26					16					58	
			207-00205	Topsoil	CY	406					1,058					423					1,887	
			207-00210	Stockpile Topsoil	CY	406					1,058					423					1,887	
			208-00013	Erosion Log Type 1 (20 Inch)	LF	1,270					165					280					1,715	
			208-00045	Concrete Washout Structure	EACH	1					1					1					3	
			208-00070	Vehicle Tracking Pad	EACH	2					2					2					6	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	20					20					10					50	
			208-00106	Sweeping (Sediment Removal)	HOUR	10					10					5					25	
			208-00107	Removal of Trash	HOUR	6					6					6					18	
			208-00207	Erosion Control Management	DAY	7					7					4					18	
			210-00015	Reset End Section	EACH						1										1	
			212-00006	Seeding (Native)	ACRE	1.8					2.9					1.1					5.8	
			212-00032	Soil Conditioning	ACRE	1.8					2.9					1.1					5.8	
			213-00002	Mulching (Weed Free Hay)	ACRE	1.8					2.9					1.1					5.8	
			213-00061	Mulch Tackifier	LB	351					579					228					1,158	
			304-06007	Aggregate Base Course (Class 6)	CY	2,000					3,472					2,126					7,598	
			304-06008	Aggregate Base Course (Class 6) (Special)	CY	1,079					971					370					2,420	
			412-01050	Concrete Pavement (10-1/2 Inch)	SY	11,279					11,165					4,356					26,800	
			412-02000	Concrete Safety Edge	LF	6,540					6,540					2,500					15,580	
			420-00520	Geogrid Pavement Reinforcement	SY	25															25	
			601-01000	Concrete Class B	CY						1.9										1.9	

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Date:	Comments	Init.

Colorado Department of Transportation



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Region 4 KMK

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Revised:	
Void:	

SUMMARY OF APPROXIMATE QUANTITIES			
Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:		Subset Sheets:	

Project No./Code	
NHPP R400-370	
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY-Kit Carson				Roadway-Wild Horse				Roadway-Rest Area				PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.					PLAN	AS CONST.					PLAN	AS CONST.
			602-00000	Reinforcing Steel	LB					65						65			
			603-01300	30 Inch Reinforced Concrete Pipe	LF					4						4			
			603-10240	24 Inch Corrugated Steel Pipe	LF								18			18			
			603-10300	30 Inch Corrugated Steel Pipe	LF	12										12			
			603-10480	48 Inch Corrugated Steel Pipe	LF					24						24			
			603-30024	24 Inch Steel End Section	EACH								2			2			
			603-30030	30 Inch Steel End Section	EACH	2										2			
			603-33030	30 Inch Pipe Safety End Treatment	EACH	2										2			
			612-00001	Delineator (Type I)	EACH	9				11				20		40			
			612-00002	Delineator (Type II)	EACH	10				10				10		30			
			612-00003	Delineator (Type III)	EACH	2				2				2		6			
			614-00011	Sign Panel (Class I)	SF	5										5			
			614-00012	Sign Panel (Class II)	SF	35				35				47		117			
			614-01503	Steel Sign Support (2-Inch Round)(Post and Socket)	EACH	1										1			
			614-01583	Steel Sign Support (2-1/2 In Round Sch 80) (Post & Slipbase)	EACH	3				3				4		10			
			620-00001	Field Office (Class 1)	EACH	1										1			
			620-00011	Field Laboratory (Class 1)	EACH	1										1			
			620-00020	Sanitary Facility	EACH	1				1				1		3			
			625-00000	Construction Surveying	L S											1			
			626-00000	Mobilization	L S											1			
			626-01114	Public Information Management (Tier IV)	DAY	40				40				33		113			
			627-00008	Modified Epoxy Pavement Marking	GAL	135				139				125		399			
			627-00013	Pavement Marking Paint (High Build)	GAL	154				156				85		395			
			627-01011	Preformed Plastic Pavement Marking (Contrast)(Inlaid)	SF	675										675			
			627-30405	Preformed Thermoplastic Pavement Marking (Word-Symbol)	SF	116				116				208		440			
			630-00000	Flagging	HOUR	1,000				1,000				750		2,750			
			630-00007	Traffic Control Inspection	DAY	10				10				8		28			
			630-00012	Traffic Control Management	DAY	30				30				25		85			
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	6				6				6		6			
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	20				20				20		20			
			630-80350	Vertical Panel	EACH	20				20				20		20			

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File Name: 22975_DES_SAQ.dgn	
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Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

10601 W. 10th St.  
Greeley, CO 80634  
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**Region 4** **KMK**

<b>As Constructed</b>
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SUMMARY OF APPROXIMATE QUANTITIES			
Designer:	MJS	Structure Numbers	
Detailer:	MJS		
Sheet Subset:		Subset Sheets:	

<b>Project No./Code</b>
NHPP R400-370
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**SUMMARY OF EARTHWORK QUANTITIES**

		Kit Carson	Wild Horse	Rest Area
<b>UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE) (NET)</b>		<b>CUBIC YARDS</b>		
FOR ROADWAY		9,826	3,495	1,541
<b>TOTAL</b>		<b>9,826</b>	<b>3,495</b>	<b>1,541</b>
<b>EMBANKMENT MATERIAL (COMPLETE IN PLACE) (NET)</b>		<b>CUBIC YARDS</b>		
FOR ROADWAY SUBBASE (R-40 Min.) AND SLOPE FILL (R-25 Min.)		6,368	1,905	1,265
<b>TOTAL</b>		<b>6,368</b>	<b>1,905</b>	<b>1,265</b>
<b>FOR INFORMATION ONLY EARTHWORK QUANTITIES BALANCE</b>				
<b>EMBANKMENT MATERIAL (COMPLETE IN PLACE) (NET)</b>		<b>CUBIC YARDS</b>		
FOR ROADWAY (Top 1.5' of Embankment):	Min. R-40	6,003	0	0
SLOPE EMBANKMENT	Min R-25	365	1,905	1,265
<b>TOTAL</b>		<b>6,368</b>	<b>1,905</b>	<b>1,265</b>
<b>COMPACTION (AASHTO T 99)</b>		<b>CUBIC YARDS</b>		
TOTAL EMBANKMENT (NET)		6,368	1,905	1,265
BASES OF CUTS AND FILLS		3,307	4,196	1,825
<b>TOTAL</b>		<b>9,675</b>	<b>6,101</b>	<b>3,090</b>
<b>EARTHWORK QUANTITIES BALANCE</b>				
<b>UNCLASSIFIED EXCAVATION</b>		<b>CUBIC YARDS</b>		
<b>TOTAL</b>		<b>9,826</b>	<b>3,495</b>	<b>1,541</b>
<b>EMBANKMENT (NET)</b>				
ROADWAY SUBBASE (R40)		6,003	0	0
SLOPE EMBANKMENT (R25)		365	1,905	1,265
<b>TOTAL</b>		<b>6,368</b>	<b>1,905</b>	<b>1,265</b>
<b>EMBANKMENT (NET) TIMES COMPACTION FACTOR</b>		<b>1.22</b>		
ROADWAY SUBBASE (R40)		7,324	0	0
SLOPE EMBANKMENT (R25)		445	2,324	1,543
<b>TOTAL</b>		<b>7,769</b>	<b>2,324</b>	<b>1,543</b>
<b>EXCESS EXCAVATION</b>				
EXCESS EXCAVATION TO BE PROPERTY OF THE CONTRACTOR		9,381	1,171	-2
<b>TOTAL</b>		<b>9,381</b>	<b>1,171</b>	<b>-2</b>

**NOTES:**

1). SOIL SAMPLES INDICATE THAT THE EXCAVATED MATERIAL MAY NOT MEET THE MINIMUM R-40 REQUIREMENT FOR EMBANKMENT MATERIAL. UNCLASSIFIED EXCAVATION THAT DOES NOT MEET R VALUE REQUIREMENTS FOR SUBBASE OR SLOPE EMBANKMENT SHALL BECOME PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.

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File Name: 22975_DES_EarthworkQuant.dgn	
Horiz. Scale: 1:1      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

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Date:	Comments	Init.


**Colorado Department of Transportation**  
 10601 W. 10th St.  
 Greeley, CO 80634  
 Phone: 970-350-2211  
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**Region 4**

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

<b>Earthwork Tabulation</b>			
Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:		Subset Sheets:	

<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>9</b>

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TABULATION OF REMOVALS, RESETS, AND ADJUSTMENTS										
LOCATION			201-000001	202-00015	202-00037	202-00090	202-00212	202-00250	202-00810	210-00015
			CLEARING AND GRUBBING	REMOVAL OF SADDLE HEADWALL	REMOVAL OF END SECTION	REMOVAL OF DELINEATOR	REMOVAL OF CONCRETE PAVEMENT (SPECIAL)	REMOVAL OF PAVEMENT MARKING	REMOVAL OF GROUND SIGN	RESET END SECTION
			ACRE	EACH	EACH	EACH	SY	SF	EACH	EACH
30+20	TO	95+60	2.5	0	2	9	7,085	15,664	1	0
453+00	TO	518+40	4.3	1	0	11	5,813	16,741	0	1
651+00	TO	714+25	1.6	0	2	33	2,378	11,378	3	0
<b>TOTALS</b>			<b>8.4</b>	<b>1</b>	<b>4</b>	<b>53</b>	<b>15,276</b>	<b>43,783</b>	<b>4</b>	<b>1</b>
NOTES:										

TABULATION OF CULVERTS																									
Location	Removal of End Section		Reset End Section		24"		30"		48"		30"		24"		30"		Pipe Safety		Pavement		Structure Backfill		Notes		
	EACH		EACH		LF		LF		LF		LF		EACH		EACH		End Treatments		Reinforcing		(Class 1)				
	PLAN		AS CONST.		PLAN		AS CONST.		PLAN		AS CONST.		PLAN		AS CONST.		PLAN		AS CONST.		PLAN			AS CONST.	
	PLAN		AS CONST.		PLAN		AS CONST.		PLAN		AS CONST.		PLAN		AS CONST.		PLAN		AS CONST.		PLAN			AS CONST.	
61+61	1						6								1		1		12.3		8.0		End Section to include safety end treatment per M-603-12		
73+43	1						6								1		1		12.3		8.0				
475+92			1								4											8.5	Reset concrete end section		
476+37									12													8.5	Remove and replace double flexible pipe saddle headwall per M-601-11		
476+44									12													8.5			
658+15	1					8								1								7.5			
668+15	1					10								1								8.5			
<b>Totals</b>	<b>4</b>		<b>1</b>			<b>18</b>			<b>12</b>		<b>24</b>			<b>4</b>		<b>2</b>		<b>2</b>		<b>25</b>		<b>57</b>			

TABULATION OF SURFACING															
Station			Length	Width	Concrete Pavement		Concrete Safety Edge		Removal of Concrete		Aggregate Base Course		Aggregate Base Course		
					(10.5 INCH)		LF		Pavement (Special)		(Class 6)		(Class 7)		
			FEET	FEET	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN
30+20	to	31+95	175	Varies	251		175		190		48		29		Begin Site 1, Shoulder taper
31+95	to	87+20	5,525	16	9,824		5525		5,985		1724		911		
87+20	to	95+60	840	Varies	1,204		840		910		228		139		End Site 1, Shoulder taper
453+00	to	455+00	200	Varies	267		200		178		85		31		Begin Site 2, Shoulder taper
455+00	to	510+00	5,500	16.00	9,778		5500		4,889		3030		815		
510+00	to	518+40	840	Varies	1,120		840		747		357		125		End Site 2, shoulder taper
651+00	to	653+00	200	Varies	267		200		178		135		30		Begin Site 3, Shoulder Taper
653+00	to	676+00	2,300	16	4,089		2300		2,200		1991		340		End Site 3, Match existing width
<b>Totals</b>					<b>26,798</b>		<b>15,580</b>		<b>15,276</b>		<b>7,598</b>		<b>2,420</b>		

Print Date: 8/18/2020		<b>Sheet Revisions</b>		Colorado Department of Transportation 10601 W. 10th St. Greeley, CO 80634 Phone: 970-350-2211 FAX: 970-350-2198 <b>Region 4</b>	<b>As Constructed</b> No Revisions:  Revised:  Void:	<b>REMOVALS, RESETS, CULVERTS, AND SURFACING TABULATIONS</b>			Project No./Code	
File Name: 22975_Tabulation of Removals, Resets, Culverts, Surfacing		Date:	Comments						Init.	NHPP R400-370
Horiz. Scale: 1:1		Unit Information	Unit Leader Initials							22975
Vert. Scale: As Noted										Sheet Number <b>10</b>

**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 PLANS \_\_\_\_\_
  - Original Terrain Data \_\_\_\_\_
  - Other: \_\_\_\_\_

\* Specify the information format, i.e., 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	Y	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

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

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

- 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)

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

	Left Interval	Center Interval	Right Interval
Stationing	200'	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- 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:**

- 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.
- 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.
- 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 3 days prior to the Presurvey Conference - Construction Survey.
- 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.
- 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.
- 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.
- The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
- The Contractor shall coordinate construction staking on the project with any utility work.
- 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.
- 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): **1 FIELD BOOK FOR EACH SITE**
- The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:
  - All required Instrument Calibrations

Print Date: 8/17/2020  
 File Name: 22975\_Survey Tabulation Sheet  
 Horiz. Scale: 1:1      Vert. Scale: As Noted  
 Unit Information      Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
  
 10601 W. 10th St.  
 Greeley, CO 80634  
 Phone: 970-350-2211  
 FAX: 970-350-2198  
**Region 4**      **KMK**

**As Constructed**  
 No Revisions:  
 Revised:  
 Void:

SURVEY TABULATION SHEET			
Designer:	MJS	Structure Numbers	
Detailer:	MJS		
Sheet Subset:		Subset Sheets:	

**Project No./Code**  
 NHPP R400-370  
 22975  
 Sheet Number **10**



8/18/2020 schuchm 10:35:12 AM p.w.: \\CDOT\APP56\dot.state.co.uspwise\production\Projects\22000-22999\900-999\22975 - us 287 and sh 40 passing lanes lim\RDW\_Survey\Drawings\Reference\_Files\Control\_Diagrams\22975\KitCarsonSURV\_PCD-TT

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

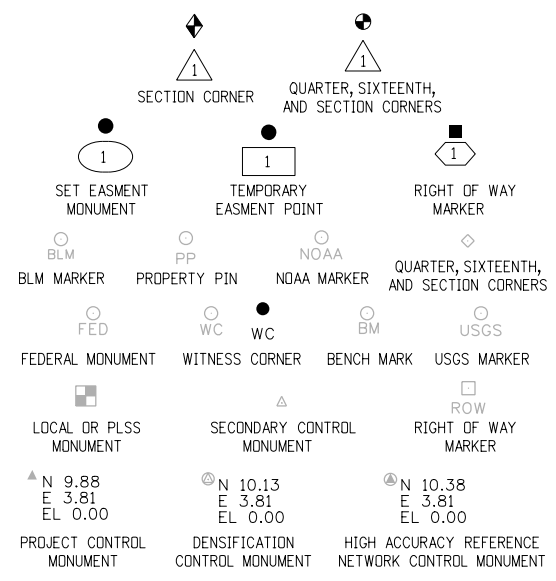
Project Control Diagram			
Title Sheet			
Project Number: NHP R400-370			
Project Location: US 287/US 40 Passing Lanes Limon			
To Eads			
Project Code:	Last Mod. Date	Subset	Sheet No.
22975	01-10-2020	3.01 of 3.03	3.01

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

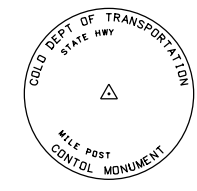
SHEET NO.	INDEX OF SHEETS
3.01	(1) Title Sheet
3.02	(1) Coordinate Tables
3.03	(1) Plan Sheet
<hr/>	
	(3) Total Sheets

## PROJECT CONTROL DIAGRAM

State Highway 287 MP 123.55 to 125.81  
Sections 21, 22, 27, 28, 33, 34  
Township 16 South, Range 48 West  
of the 6th Principal Meridian  
County of Cheyenne



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 dated July 2012. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

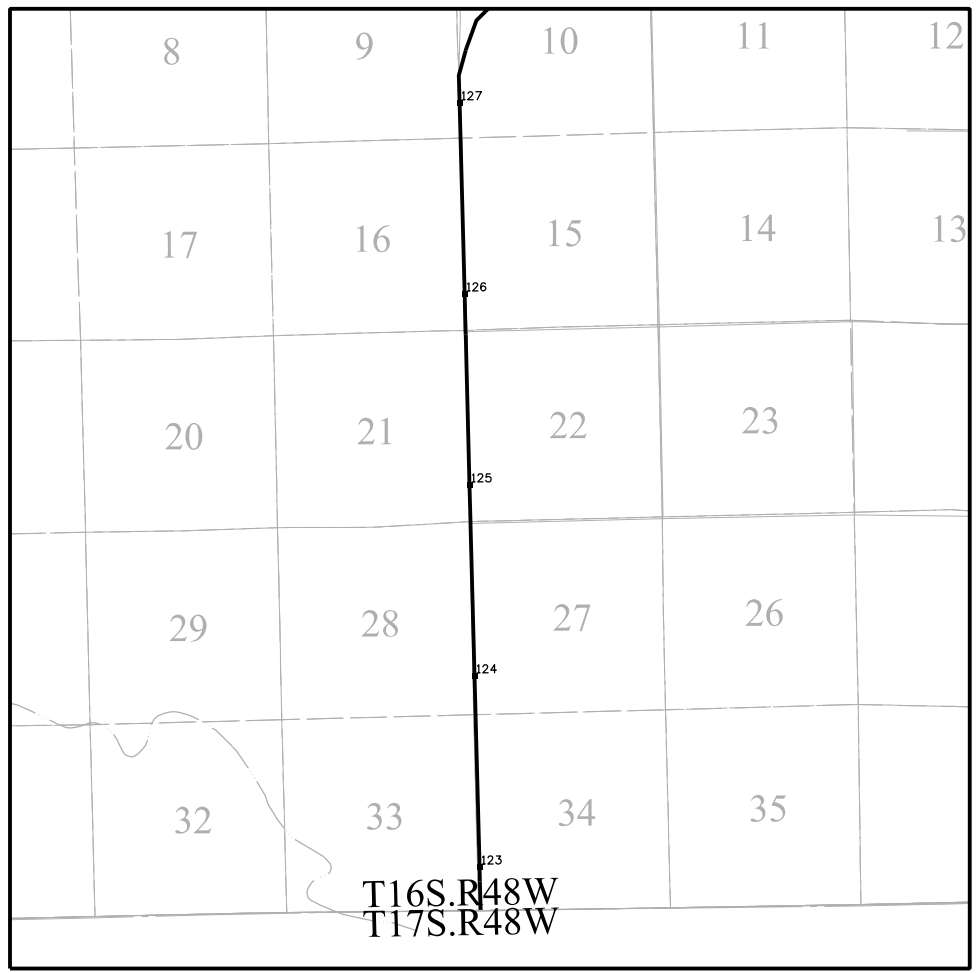


Typical Control Monument Cap  
Not to Scale

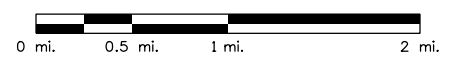
▲ CM-MP - ControlPoint Monuments set by CDOT. They are CDOT Type 2 monuments, a 3 1/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

General Notes:

1. This Project Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
2. 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.
3. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2019 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.



PROJECT LOCATION MAP



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N 3° 12' 27" E from the Control Monument "F 37" (NGS Monument), Section 28, Township 16 South, Range 48 West, Sixth P.M. and the Control Monument "CM 242A" (CDOT Type 2 Monument, MP 124.20), Section 27, Township 16 South, Range 48 West, Sixth P.M. as obtained from a Global Positioning System (GPS) survey based on the National Spatial Reference System (NSRS).

Basis of Elevations: Project elevations are GPS derived, using GEOID 12, based on a NAVD 88 elevation of 1286.396m on NGS Benchmark "F 37" (Stamped "F 37 1933" Bench Mark Disk set in top of concrete monument).

COORDINATE DATUM: Project coordinates are modified Colorado State Plane North Zone NAD 83(2011) coordinates. The project seed point (CM 124.54) coordinates are: Northing = 398034.204m, Easting = 1150640.841m, and Elevation = 1270.469m. The ground scale factor used to modify the coordinates is 1.00023106004233. Project Coordinates are truncated by 300,000m in the Northing and 1,000,000m in the Easting.

To get from Project to State Plane coordinates: convert project coordinates to metric, add the truncation, subtract the seed point northing and easting, divide by the ground scale factor, then add the seed point northing and easting.

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 (PROJECT CONTROL DIAGRAM)

*I, Mark L. Angell, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Project 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. 38340

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Colorado Department of Transportation



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Region 4

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Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Project Control Diagram

Coordinate Tables

Project Number: NHPP R400-370			
Project Location: US 287/US 40 Passing Lanes Limon			
To Eads			
Project Code:	Last Mod. Date	Subset	Sheet No.
22975	01-09-20	3.01 of 3.03	3.02

**CHARN GEODETIC COORDINATE TABLE**

(adjusted field data) (meters)

NAME	COORDINATES NAD 83(2011)		ELLIP.S. HEIGHT	MAPPING ANGLE	SCALE	NAD 83(2011) ZONE 0501		DESCRIPTION
	LATITUDE	LONGITUDE				NORTHING	EASTING	
C 37	38°44'37.44508" N	102°47'42.19475" W	1279.871	1°42'22"	0.999955239	409362.158	1149519.181	NGS Disk in concrete post
F 37	38°37'59.90689" N	102°47'10.15352" W	1263.814	1°42'42"	0.999969017	397132.686	1150658.709	NGS Disk in concrete post
G 37	38°35'37.83353" N	102°47'10.36929" W	1274.554	1°42'42"	0.999974833	392753.692	1150784.338	NGS Disk in concrete post

**PROJECT COORDINATE SUMMARY TABLE (feet)**

NAME	PROJECT COORDINATES		ELEV. (NAVD 88)	DESCRIPTION
	NORTHING	EASTING		
CM 123.55	316354.353	494380.054	4212.198	CDOT Type 2 Monument (MP 123.55)
CM 125.00	324328.154	494208.479	4252.239	CDOT Type 2 Monument (MP 125.00)
CM 242A	319838.232	494351.291	4216.801	CDOT Type 2 Monument (MP 124.20)
CM 258A	327763.065	494140.151	4263.897	CDOT Type 2 Monument (MP 125.60)
CM 2320	314490.289	494514.510	4194.424	CDOT Type 2 Monument (MP 123.20)
CM 2454	321633.886	494227.492	4242.285	CDOT Type 2 Monument (MP 124.54)
CM 2561	326660.253	494163.439	4259.556	CDOT Type 2 Monument (MP 125.45)
C 37	358807.601	490546.664	4273.112	NGS Disk in concrete post
F 37	318675.472	494286.129	4220.451	NGS Disk in concrete post
G 37	304305.403	494698.391	4255.680	NGS Disk in concrete post

**GEODETIC COORDINATE TABLE**

(adjusted field data) (meters)

NAME	COORDINATES NAD 83(2011)		ELLIP.S. HEIGHT	MAPPING ANGLE	SCALE	NAD 83(2011) ZONE 0501		DESCRIPTION
	LATITUDE	LONGITUDE				NORTHING	EASTING	
CM 123.55	38°37'36.95050" N	102°47'09.84418" W	1261.299	1°42'42"	0.999969925	396425.371	1150687.331	CDOT Type 2 Monument (MP 123.55)
CM 125.00	38°38'55.76859" N	102°47'09.00391" W	1273.503	1°42'42"	0.999966859	398855.229	1150635.047	CDOT Type 2 Monument (MP 125.00)
CM 242A	38°38'11.37373" N	102°47'08.89524" W	1262.702	1°42'43"	0.999968568	397487.015	1150678.566	CDOT Type 2 Monument (MP 124.20)
CM 258A	38°39'29.71975" N	102°47'08.57148" W	1277.055	1°42'43"	0.999965583	399901.950	1150614.225	CDOT Type 2 Monument (MP 125.60)
CM 2320	38°37'18.49705" N	102°47'08.85253" W	1255.881	1°42'43"	0.999970664	395857.335	1150728.304	CDOT Type 2 Monument (MP 123.20)
CM 2454	38°38'29.14824" N	102°47'09.77861" W	1270.469	1°42'42"	0.999967879	398034.204	1150640.841	CDOT Type 2 Monument (MP 124.54)
CM 2561	38°39'18.81900" N	102°47'08.69331" W	1275.733	1°42'43"	0.999965990	399565.890	1150621.322	CDOT Type 2 Monument (MP 125.45)
C 37	38°44'37.44508" N	102°47'42.19475" W	1279.871	1°42'22"	0.999955239	409362.158	1149519.181	NGS Disk in concrete post
F 37	38°37'59.90689" N	102°47'10.15352" W	1263.814	1°42'42"	0.999969017	397132.686	1150658.709	NGS Disk in concrete post
G 37	38°35'37.83353" N	102°47'10.36929" W	1274.554	1°42'42"	0.999974833	392753.692	1150784.338	NGS Disk in concrete post



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Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

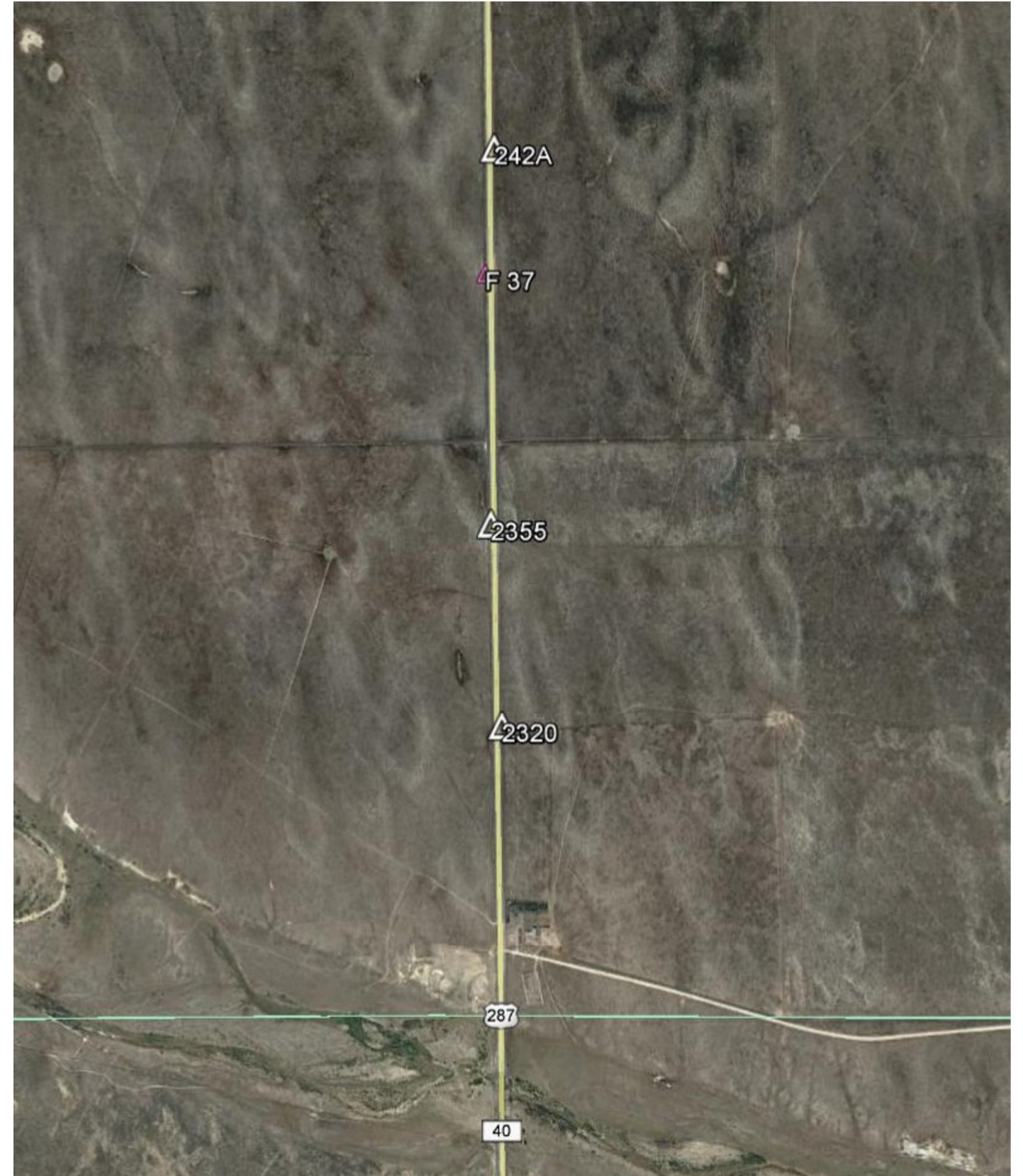
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Date	Description	Initials



Project Control Diagram

Plan Sheet

Project Number: NHP R400-370			
Project Location: US 287/US 40 Passing Lanes Limon			
To Eads			
Project Code:	Last Mod. Date	Subset	Sheet No.
22975	01-10-2020	3.01 of 3.03	3.03





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Region 4

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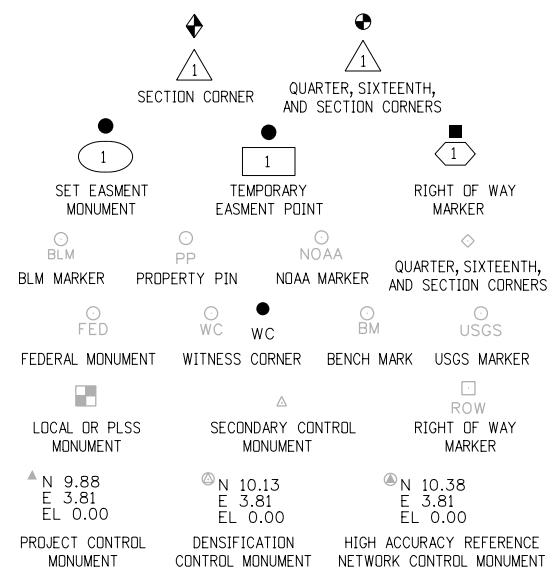
Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials

Project Control Diagram			
Title Sheet			
Project Number: NHPP R400-370			
Project Location: US 287/US 40 Passing Lanes Limon			
To Eads			
Project Code:	Last Mod. Date	Subset	Sheet No.
22975	04-02-20	3.01 of 3.03	3.01

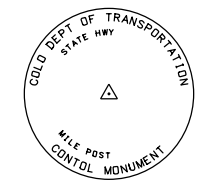
# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

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

**PROJECT CONTROL DIAGRAM**  
US 287/US 40 MP 435.72 to 437.44  
Sections 30, 31  
Township 14 South, Range 49 West  
Sections 25, 26  
Township 14 South, Range 50 West  
of the 6th Principal Meridian  
County of Cheyenne



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 dated July 2012. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

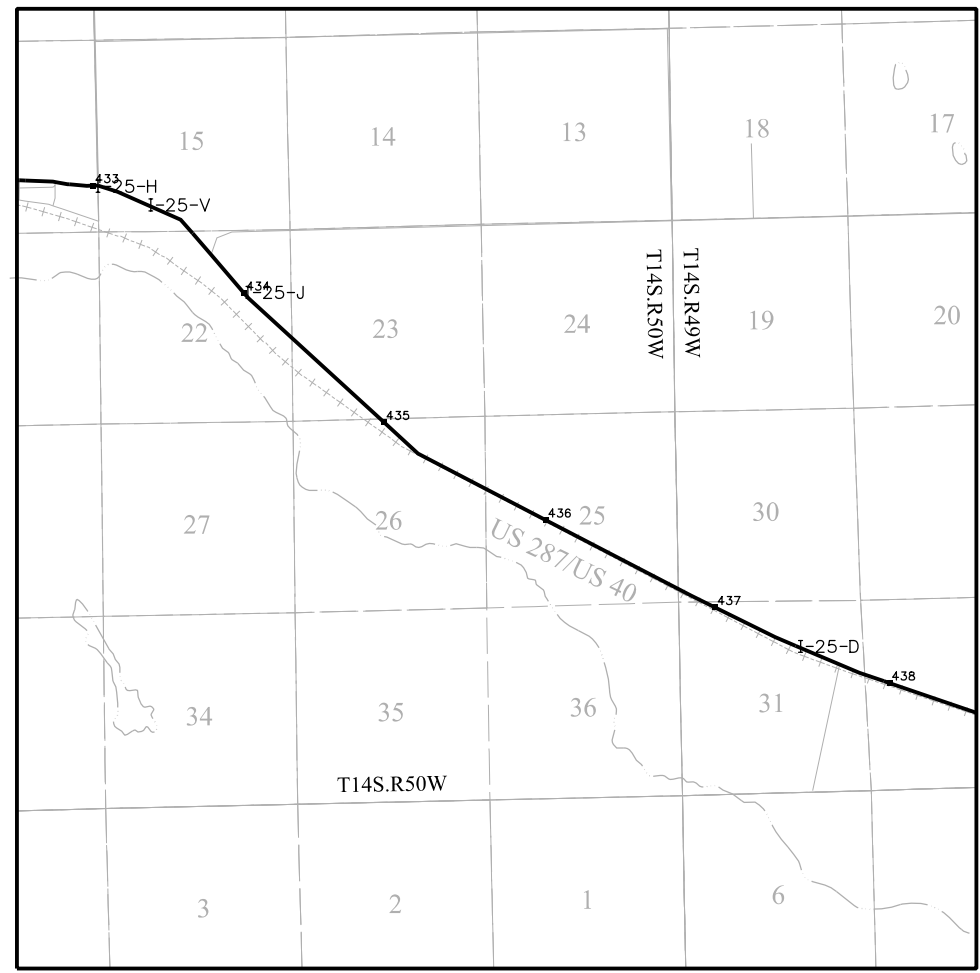


Typical Control Monument Cap  
Not to Scale

▲ CM-MP - ControlPoint Monuments set by CDOT. They are CDOT Type 2 monuments, a 3 1/4" 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 Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
2. 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.
3. 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



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of S 62°03'02" W from the Control Monument "CM 3666" (CDOT Type 2 Monument, MP 436.66), Section 25, Township 14 South, Range 50 West, Sixth P.M. and the Control Monument "CM 3720" (CDOT Type 2 Monument, MP 437.20), Section 31, Township 14 South, Range 49 West, Sixth P.M. as obtained from a Global Positioning System (GPS) survey based on the National Spatial Reference System (NSRS).

Basis of Elevations: Project elevations are GPS derived, using GEOID 12, based on a NAVD 88 elevation of 1369.154m on NGS Benchmark "E 256" (Stamped "E 256 1938" NGS bench mark disk set in top of concrete monument).

COORDINATE DATUM: Project coordinates are modified Colorado State Plane North Zone NAD 83(2011) coordinates. The project seed point (CM 3666) coordinates are: Northing = 414704.869m, Easting = 1136309.419m, and Elevation = 1325.095m. The ground scale factor used to modify the coordinates is 1.00025742876323. Project Coordinates are truncated by 400,000m in the Northing and 1,000,000m in the Easting.

To get from Project to State Plane coordinates: convert project coordinates to metric, add the truncation, subtract the seed point northing and easting, divide by the ground scale factor, then add the seed point northing and easting.

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 (PROJECT CONTROL DIAGRAM)

I, Lee K. Groves, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Project 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. 34169

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Colorado Department of Transportation



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Region 4

MDG

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Project Control Diagram

Coordinate Tables

Project Number: NHPP R400-370			
Project Location: US 287/US 40 Passing Lanes Limon			
To Eads			
Project Code:	Last Mod. Date	Subset	Sheet No.
22975	04-01-20	3.01 of 3.03	3.02

**CHARN GEODETIC COORDINATE TABLE**

(adjusted field data) (meters)

NAME	COORDINATES NAD 83(2011)		ELLIPS. HEIGHT	MAPPING ANGLE	SCALE	NAD 83(2011) ZONE 0501		DESCRIPTION
	LATITUDE	LONGITUDE				NORTHING	EASTING	
ANGLE	38°47'20.19866" N	102°55'50.01940" W	1324.129	1°37'14"	0.999950660	414036.728	1137602.056	Bench Mark Disk in concrete monument
E256	38°49'47.27723" N	103°02'15.06880" W	1346.897	1°33'11"	0.999947053	418312.919	1128190.298	Bench Mark Disk in concrete monument

**PROJECT COORDINATE SUMMARY TABLE (feet)**

NAME	PROJECT COORDINATES		ELEV. (NAVD 88)	DESCRIPTION
	NORTHING	EASTING		
CM 3572	50567.019	442687.015	4431.651	CDOT Type 2 Monument (MP 435.72)
CM 3620	49500.172	444752.697	4427.308	CDOT Type 2 Monument (MP 436.20)
CM 3666	48244.223	447208.486	4420.885	CDOT Type 2 Monument (MP 436.66)
CM 3720	46996.920	449559.330	4414.219	CDOT Type 2 Monument (MP 437.20)
CM 3744	46403.893	450745.884	4419.331	CDOT Type 2 Monument (MP 437.44)

**GEODETIC COORDINATE TABLE**

(adjusted field data) (meters)

NAME	COORDINATES NAD 83(2011)		ELLIPS. HEIGHT	MAPPING ANGLE	SCALE	NAD 83(2011) ZONE 0501		DESCRIPTION
	LATITUDE	LONGITUDE				NORTHING	EASTING	
CM 3572	38°48'07.23864" N	102°57'39.03738" W	1328.397	1°36'05"	0.999949452	415412.676	1134931.627	CDOT Type 2 Monument (MP 435.72)
CM 3620	38°47'56.12853" N	102°57'13.33752" W	1327.064	1°36'21"	0.999949732	415087.584	1135561.086	CDOT Type 2 Monument (MP 436.20)
CM 3666	38°47'43.04043" N	102°56'42.78272" W	1325.095	1°36'41"	0.999950067	414704.869	1136309.419	CDOT Type 2 Monument (MP 436.66)
CM 3720	38°47'30.06476" N	102°56'13.55261" W	1323.053	1°36'59"	0.999950402	414324.788	1137025.773	CDOT Type 2 Monument (MP 437.20)
CM 3744	38°47'23.87557" N	102°55'58.78723" W	1324.606	1°37'08"	0.999950564	414144.079	1137387.343	CDOT Type 2 Monument (MP 437.44)



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Colorado Department of Transportation



10601 West 10th Street  
Greeley, CO 80634  
Phone: 970-350-2173  
FAX: 970-350-2223

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Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Project Control Diagram			
Plan Sheet			
Project Number: NHPP R400-370			
Project Location: US 287/US40 Passing Lanes Limon			
To Eads			
Project Code:	Last Mod. Date	Subset	Sheet No.
22975	04/02/20	3.01 of 3.03	3.03





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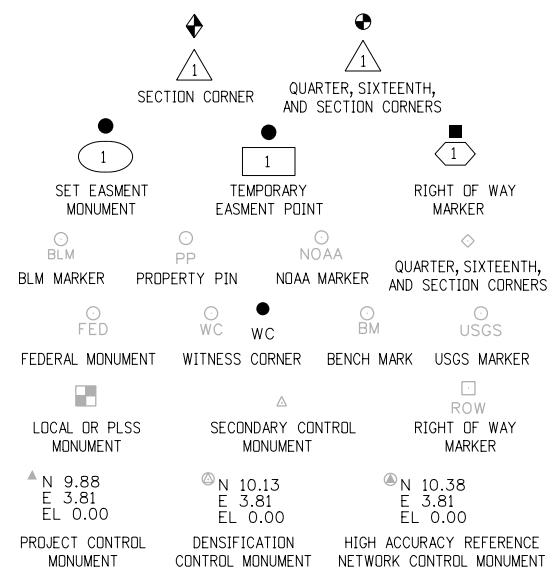
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Date	Description	Initials	Date	Description	Initials	Date	Description	Initials

Project Control Diagram			
Title Sheet			
Project Number: NHP R400-370			
Project Location: US 287/US 40 Passing Lanes Limon			
To Eads			
Project Code:	Last Mod. Date	Subset	Sheet No.
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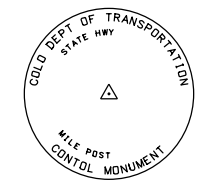
# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

PROJECT CONTROL DIAGRAM  
US 287/US 40 MP 407.28 to 408.50  
Sections 29, 32, 33  
Township 11 South, Range 53 West  
of the 6th Principal Meridian  
County of Lincoln

SHEET NO.	INDEX OF SHEETS
3.01	1 Title Sheet
3.02	1 Coordinate Tables
3.03	1 Plan Sheet
<hr/>	
3	Total Sheets



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 dated July 2012. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

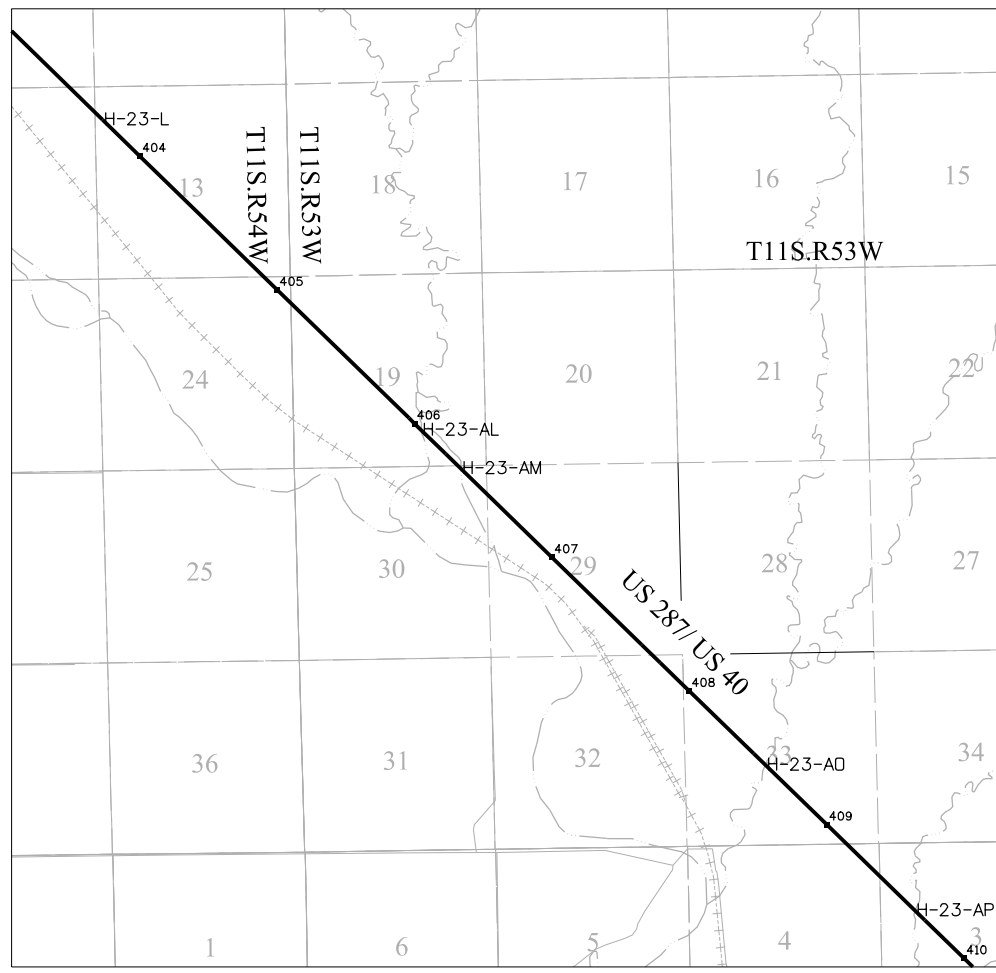


Typical Control Monument Cap  
Not to Scale

▲ CM-MP - ControlPoint Monuments set by CDOT. They are CDOT Type 2 monuments, a 3 1/4" 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 Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
2. 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.
3. 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



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of S 46° 48' 16" E from the Control Monument "CM 0764" (CDOT Type 2 Monument, MP 407.64), Section 29, Township 11 South, Range 53 West, Sixth P.M. and the Control Monument "CM 0800" (CDOT Type 2 Monument, MP 408.00), Section 33, Township 11 South, Range 53 West, Sixth P.M. as obtained from a Global Positioning System (GPS) survey based on the National Spatial Reference System (NSRS).

Basis of Elevations: Project elevations are GPS derived, using GEOID 12, based on a NAVD 88 elevation of 1487.112m on NGS Benchmark "L 25" (Stamped "L 25 1929" NGS bench mark disk set in top of concrete monument).

COORDINATE DATUM: Project coordinates are modified Colorado State Plane North Zone NAD 83(2011) coordinates. The project seed point (CM 0800) coordinates are: Northing = 441958.018m, Easting = 1100701.539m, and Elevation = 1469.050m. The ground scale factor used to modify the coordinates is 1.00029371867108. Project Coordinates are truncated by 400,000m in the Northing and 1,000,000m in the Easting.

To get from Project to State Plane coordinates: convert project coordinates to metric, add the truncation, subtract the seed point northing and easting, divide by the ground scale factor, then add the seed point northing and easting.

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 (PROJECT CONTROL DIAGRAM)

I, Lee K. Groves, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Project 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. 34169

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Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Sheet Revisions

Date	Description	Initials

Project Control Diagram

Coordinate Tables

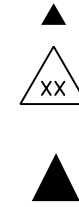
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Project Location: US 287/US 40 Passing Lanes Limon			
To Eads			
Project Code:	Last Mod. Date	Subset	Sheet No.
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CHARN GEODETIC COORDINATE TABLE

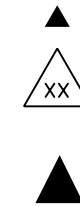
(adjusted field data) (meters)

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	LATITUDE	LONGITUDE				NORTHING	EASTING	
B 257	39°07'39.83731" N	103°27'05.56935" W	1508.171	1°17'31"	0.999936018	450485.159	1091506.107	Bench Mark Disk in Concrete
CREST	39°00'26.82324" N	103°17'43.12755" W	1489.125	1°23'26"	0.999937237	437452.847	1105335.157	Triangulation Station Disk in Concrete
L 25	39°02'37.36610" N	103°21'02.70032" W	1466.033	1°21'20"	0.999936408	441362.068	1100439.819	Bench Mark Disk in Concrete



PROJECT COORDINATE SUMMARY TABLE (feet)

NAME	PROJECT COORDINATES		ELEV. (NAVD 88)	DESCRIPTION
	NORTHING	EASTING		
CM 0728	140331.171	327686.423	4899.106	CDOT Type 2 Monument (MP 407.28)
CM 0764	138973.207	328983.409	4892.432	CDOT Type 2 Monument (MP 407.64)
CM 0800	137657.265	330384.967	4888.850	CDOT Type 2 Monument (MP 408.00)
CM 0850	135858.440	332229.481	4879.505	CDOT Type 2 Monument (MP 408.50)



GEODETIC COORDINATE TABLE

(adjusted field data) (meters)

NAME	COORDINATES NAD 83(2011)		ELLIPS. HEIGHT	MAPPING ANGLE	SCALE	NAD 83(2011) ZONE 0501		DESCRIPTION
	LATITUDE	LONGITUDE				NORTHING	EASTING	
CM 0728	39°03'23.53194" N	103°21'24.62124" W	1472.215	1°21'06"	0.999936210	442772.787	1099879.263	CDOT Type 2 Monument (MP 407.28)
CM 0764	39°03'09.81408" N	103°21'08.59463" W	1470.162	1°21'16"	0.999936263	442359.001	1100274.469	CDOT Type 2 Monument (MP 407.64)
CM 0800	39°02'56.48625" N	103°20'51.23231" W	1469.050	1°21'27"	0.999936320	441958.018	1100701.539	CDOT Type 2 Monument (MP 408.00)
CM 0850	39°02'38.28337" N	103°20'28.40564" W	1466.174	1°21'41"	0.999936403	441409.896	1101263.583	CDOT Type 2 Monument (MP 408.50)



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Date	Description	Initials

Project Control Diagram

Plan Sheet

Project Number: NHPP R400-370			
Project Location: US 287/US 40 Passing Lanes Limon			
To Eads			
Project Code:	Last Mod. Date	Subset	Sheet No.
22975	04-02-20	3.01 of 3.03	3.03



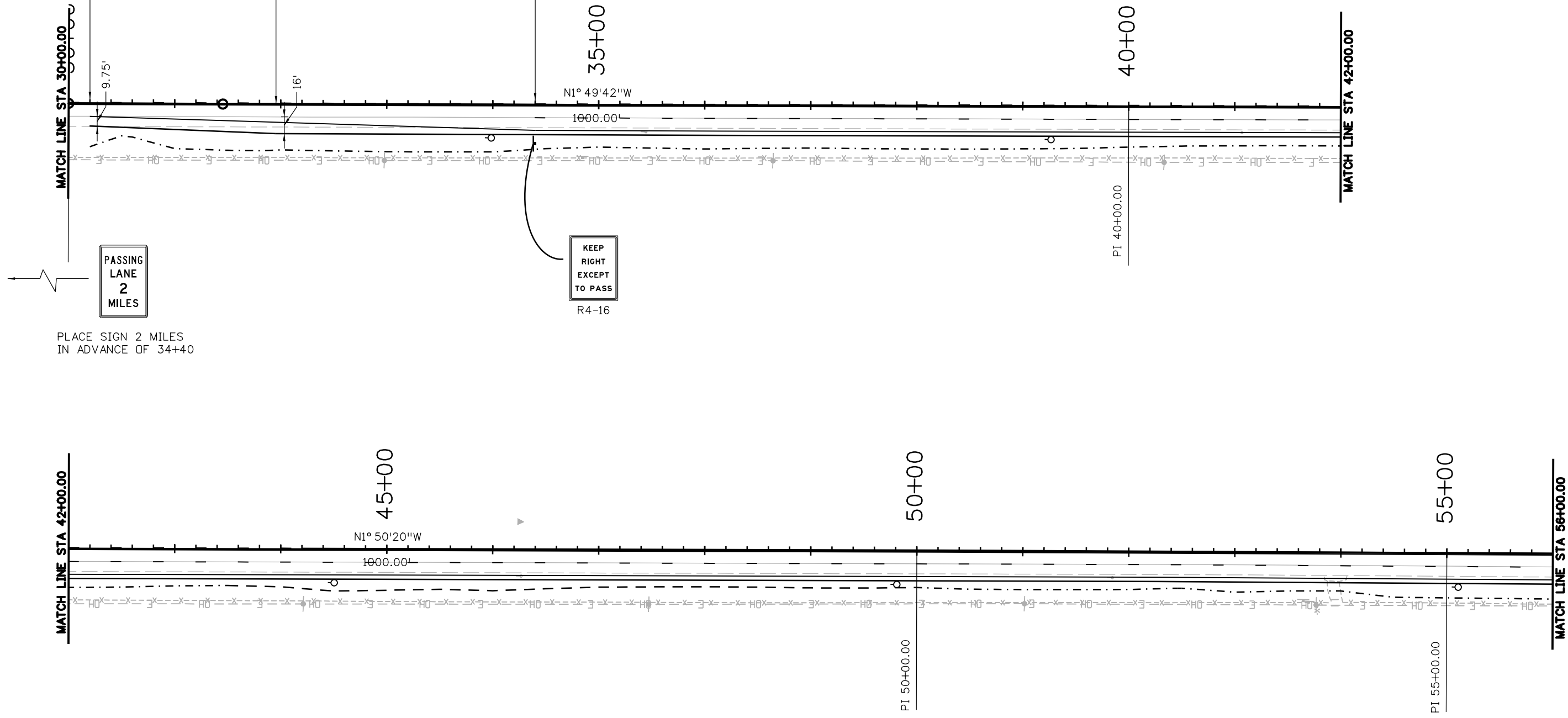
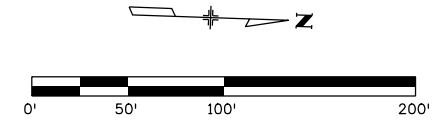


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BEGIN REMOVAL OF CONCRETE (SPECIAL)  
30+20 - 95+60  
BEGIN CONCRETE WIDENING TAPER  
30+20 - 31+95  
BEGIN 4" WHITE EDGE LINE TAPER  
30+20 - 34+40

BEGIN 4" WHITE SKIP STRIPE  
34+40-77+50  
PLACE CLASS 2 SIGN  
34+40

FULL WIDTH CONCRETE WIDENING  
31+95 - 87+20



PASSING  
LANE  
2  
MILES

KEEP  
RIGHT  
EXCEPT  
TO PASS  
R4-16

PLACE SIGN 2 MILES  
IN ADVANCE OF 34+40

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File Name: 22975 Plan Sheets DGN.dgn	
Horiz. Scale: 1:100	Vert. Scale: As Noted
Unit Information	Unit Leader Initials
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Sheet Revisions		
Date:	Comments	Init.

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FAX: 970-350-2198

Region 4 KMK

As Constructed
No Revisions:
Revised:
Void:

ROADWAY WIDENING PLANS SOUTH OF KIT CARSON			
Designer:	MJS	Structure Numbers	
Detailer:	MJS		
Sheet Subset:		Subset Sheets:	

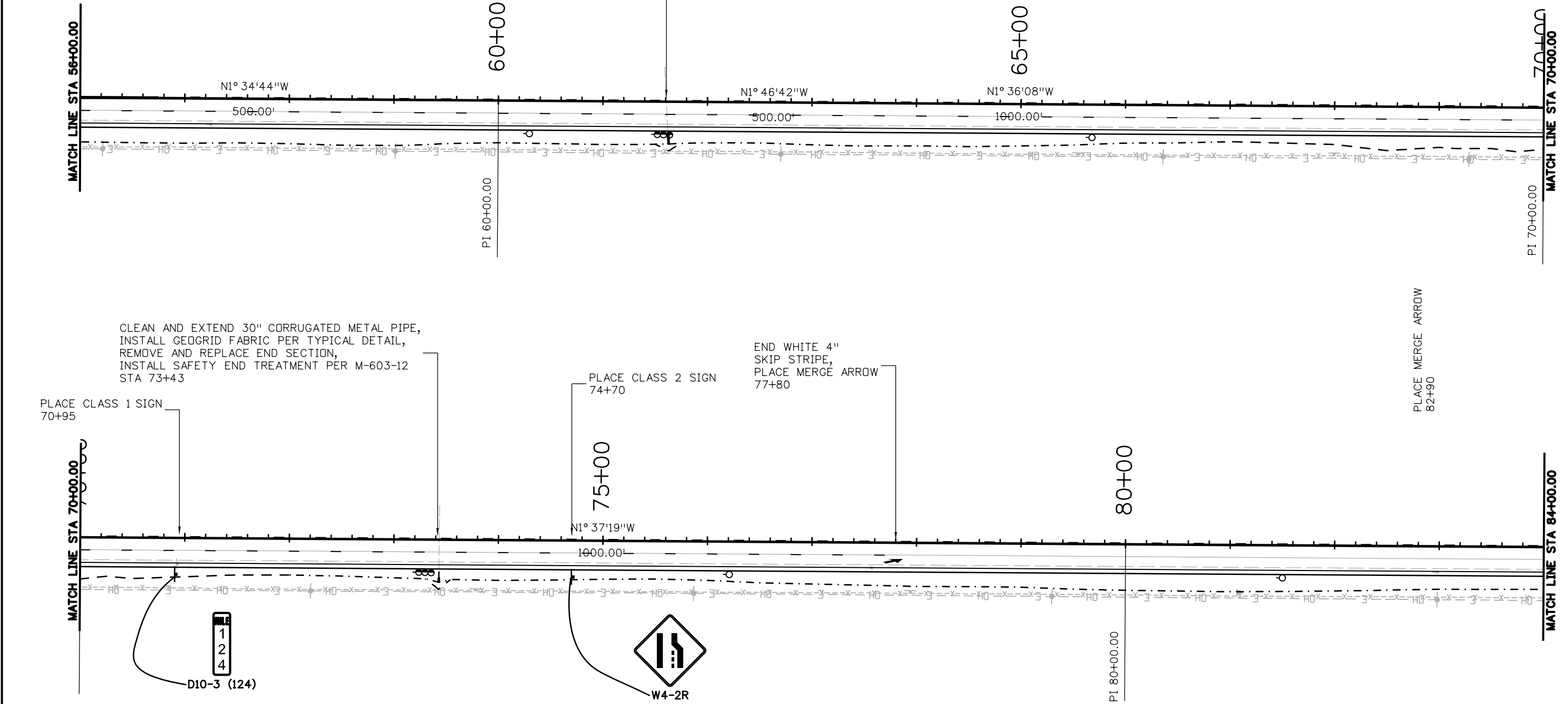
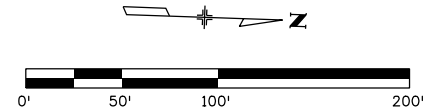
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	22975
Sheet Number	21



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CULVERT DETAILS		
Location	61+61	73+43
Size	30"	30"
Material	Corrugated Steel	Corrugated Steel
Existing Flowline Elevation	4206.77'	4211.95'
New Flowline Elevation	4206.70'	4211.87'
Slope	0.64%	0.77%
New pipe length (excluding end section)	6'	6'
End section	yes	yes
Safety Grate per M-603-12	yes	yes

CLEAN AND EXTEND 30" CORRUGATED METAL PIPE, INSTALL GEOGRID FABRIC PER TYPICAL DETAIL, REMOVE AND REPLACE END SECTION, INSTALL SAFETY END TREATMENT PER M-603-12 STA 61+61



CLEAN AND EXTEND 30" CORRUGATED METAL PIPE, INSTALL GEOGRID FABRIC PER TYPICAL DETAIL, REMOVE AND REPLACE END SECTION, INSTALL SAFETY END TREATMENT PER M-603-12 STA 73+43

END WHITE 4" SKIP STRIPE, PLACE MERGE ARROW 77+80

PLACE CLASS 1 SIGN 70+95

PLACE CLASS 2 SIGN 74+70

PLACE MERGE ARROW 82+90



NOTES:  
Culvert extensions and end sections shall be connected per Standard M-603-10

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Unit Information      Unit Leader Initials

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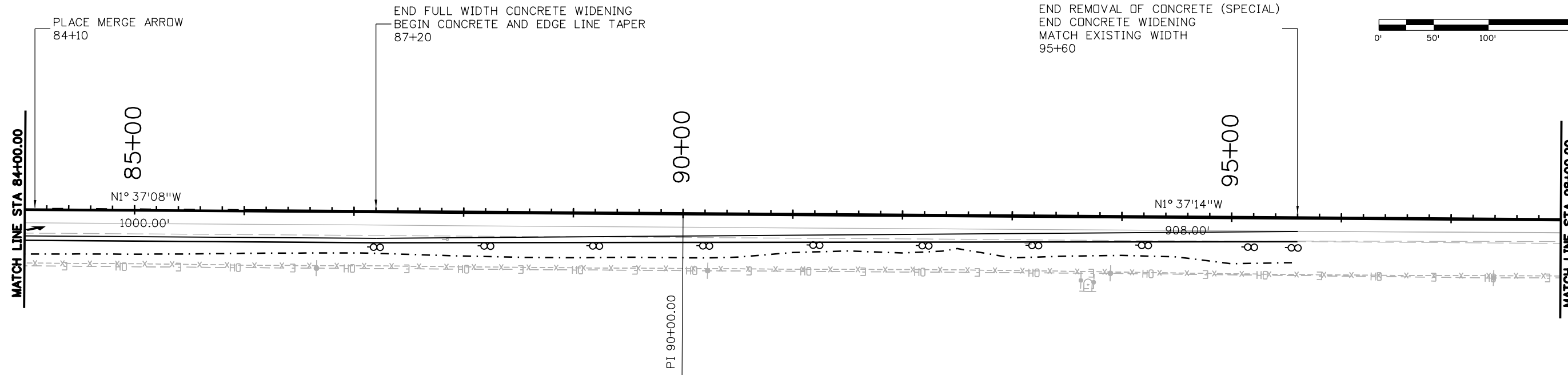
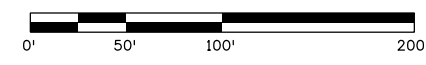
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ROADWAY WIDENING PLANS SOUTH OF KIT CARSON			
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Project No./Code	NHPP R400-370
	22975
Sheet Number	22

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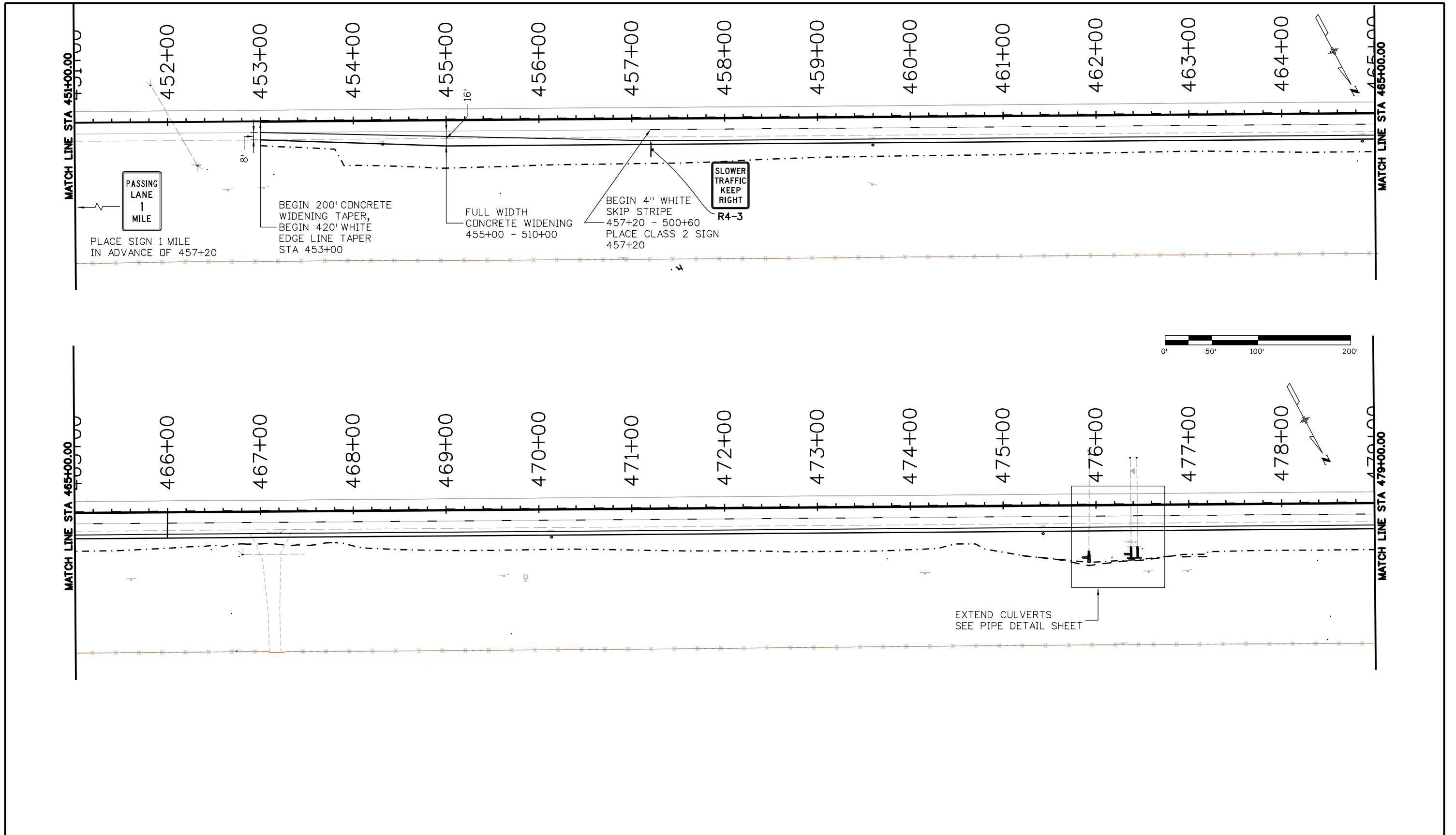
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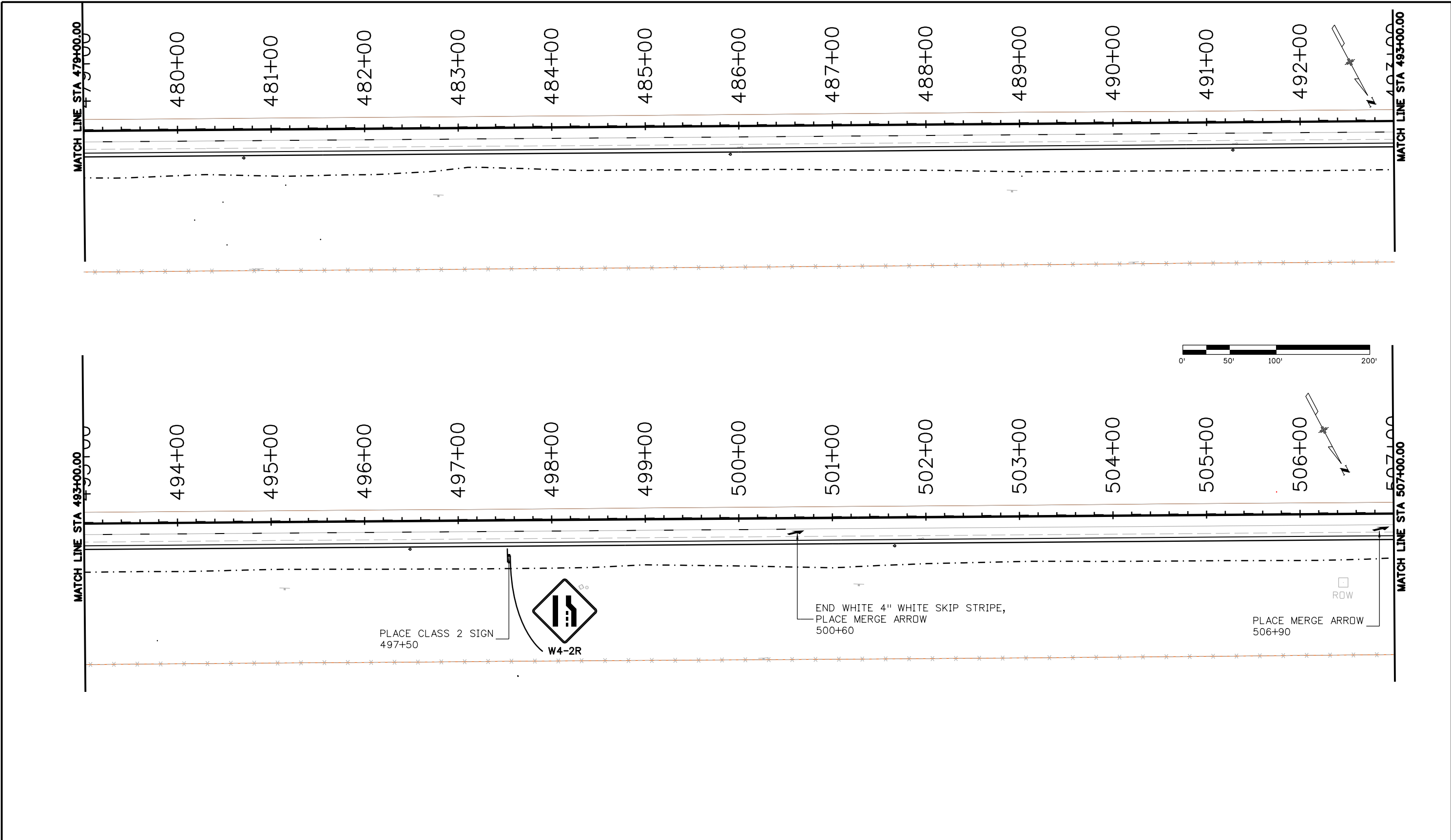
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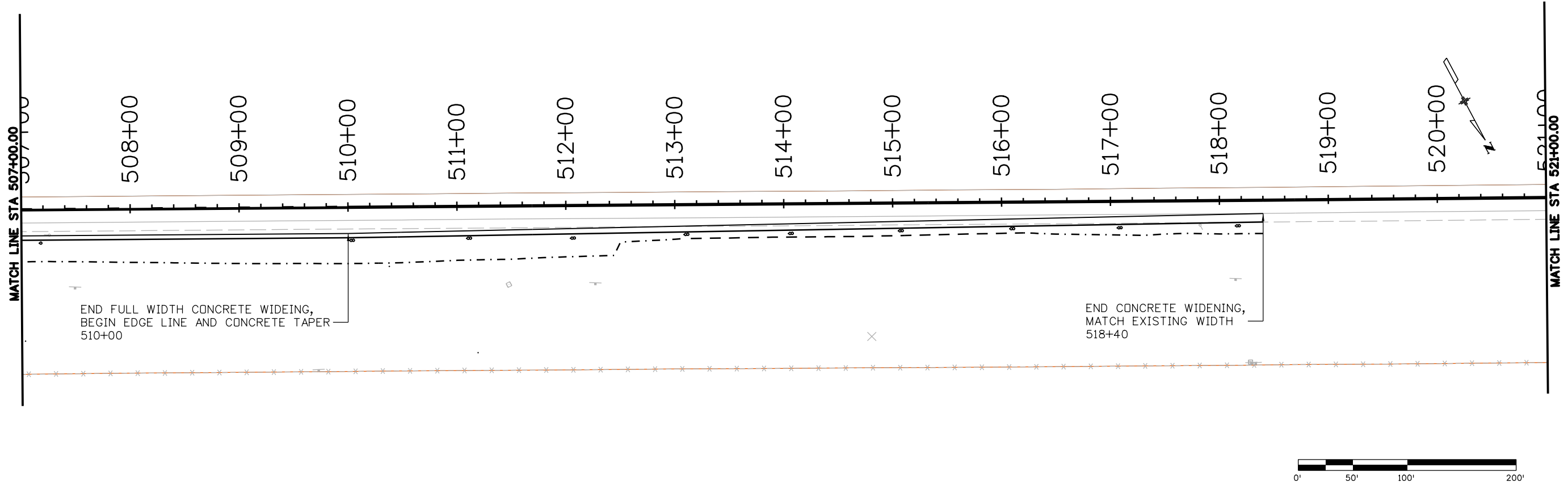
Print Date: 8/18/2020 File Name: 22975 Plan and Profile Sheets.dgn Horiz. Scale: 1:100      Vert. Scale: As Noted Unit Information      Unit Leader Initials	<div style="font-size: 2em; font-weight: bold;">0000</div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th style="width: 20%;">Date:</th> <th style="width: 50%;">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> </tbody> </table>	Sheet Revisions			Date:	Comments	Init.										<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="font-size: 0.8em;">             Colorado Department of Transportation              10601 W. 10th St.              Greeley, CO 80634              Phone: 970-350-2211              FAX: 970-350-2198           </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span><b>Region 4</b></span> <span><b>KMK</b></span> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">As Constructed</th> </tr> </thead> <tbody> <tr> <td>No Revisions:</td> <td> </td> </tr> <tr> <td>Revised:</td> <td> </td> </tr> <tr> <td>Void:</td> <td> </td> </tr> </tbody> </table>	As Constructed		No Revisions:		Revised:		Void:		<div style="font-weight: bold; font-size: 1.2em;">             WILD HORSE LOCATION              ROADWAY WIDENING PLANS           </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 30%;">Designer:</td> <td style="width: 10%;">MJS</td> <td style="width: 10%;">Structure Numbers</td> <td style="width: 50%;"> </td> </tr> <tr> <td>Detailer:</td> <td>MJS</td> <td>Subset Sheets:</td> <td> </td> </tr> <tr> <td>Sheet Subset:</td> <td> </td> <td> </td> <td> </td> </tr> </table>	Designer:	MJS	Structure Numbers		Detailer:	MJS	Subset Sheets:		Sheet Subset:				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-weight: bold;">Project No./Code</td> </tr> <tr> <td style="text-align: center;">NHPP R400-370</td> </tr> <tr> <td style="text-align: center;">22975</td> </tr> <tr> <td style="font-weight: bold;">Sheet Number</td> </tr> <tr> <td style="text-align: right; font-weight: bold;">24</td> </tr> </table>	Project No./Code	NHPP R400-370	22975	Sheet Number	24
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Print Date: 8/18/2020 File Name: 22975 Plan and Profile Sheets.dgn Horiz. Scale: 1:100      Vert. Scale: As Noted Unit Information      Unit Leader Initials	<div style="font-size: 2em; font-weight: bold;">0000</div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th style="width: 20%;">Date:</th> <th style="width: 50%;">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> </tbody> </table>	Sheet Revisions			Date:	Comments	Init.										<b>Colorado Department of Transportation</b>  10601 W. 10th St. Greeley, CO 80634 Phone: 970-350-2211 FAX: 970-350-2198  <b>Region 4</b> <b>KMK</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">As Constructed</th> </tr> </thead> <tbody> <tr> <td>No Revisions:</td> <td> </td> </tr> <tr> <td>Revised:</td> <td> </td> </tr> <tr> <td>Void:</td> <td> </td> </tr> </tbody> </table>	As Constructed		No Revisions:		Revised:		Void:		<b>WILD HORSE LOCATION ROADWAY WIDENING PLANS</b>  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Designer:</td> <td style="width: 10%;">MJS</td> <td style="width: 10%;">Structure Numbers</td> <td> </td> </tr> <tr> <td>Detailer:</td> <td>MJS</td> <td>Subset Sheets:</td> <td> </td> </tr> <tr> <td>Sheet Subset:</td> <td> </td> <td> </td> <td> </td> </tr> </table>	Designer:	MJS	Structure Numbers		Detailer:	MJS	Subset Sheets:		Sheet Subset:				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Project No./Code</td> <td>NHPP R400-370</td> </tr> <tr> <td> </td> <td>22975</td> </tr> <tr> <td>Sheet Number</td> <td style="text-align: right;"><b>25</b></td> </tr> </table>	Project No./Code	NHPP R400-370		22975	Sheet Number	<b>25</b>
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Unit Information	Unit Leader Initials

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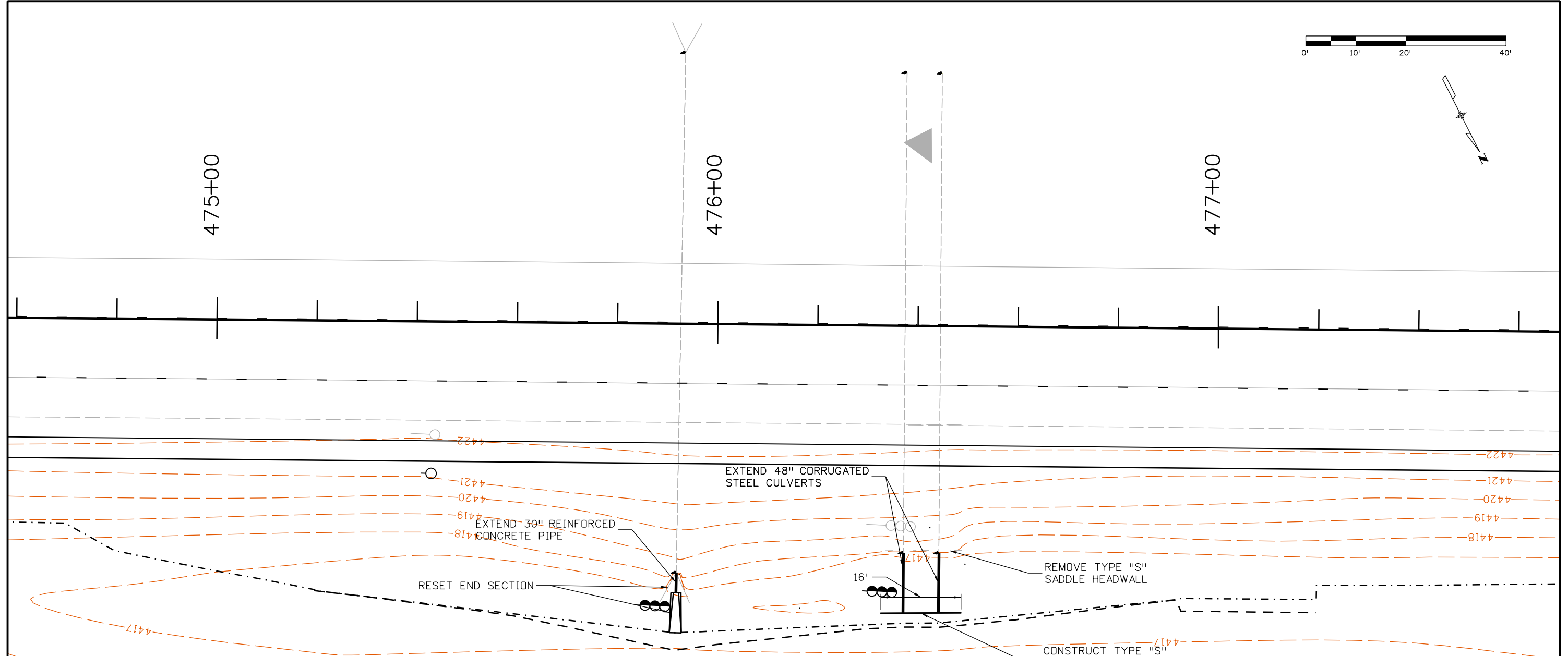
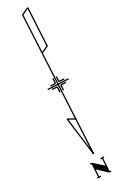
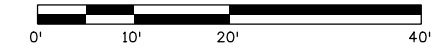
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<b>WILD HORSE LOCATION ROADWAY WIDENING PLANS</b>			
Designer:	MJS	Structure Numbers	
Detailer:	MJS		
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**CULVERT DETAILS**

Location	475+92	476+37	476+44
Size	30"	48"	48"
Material	Reinforced Concrete	Corrugated Steel	Corrugated Steel
Existing Flowline Elevation	4415.70'	4416.10'	4416.15'
New Flowline Elevation	4415.87'	4416.21'	4416.27'
Slope	1.40%	0.99%	1.04%
New pipe length (excluding end section)	4'	12'	12'
End section	yes	no	no
Safety Grate per M-603-12	no	no	no

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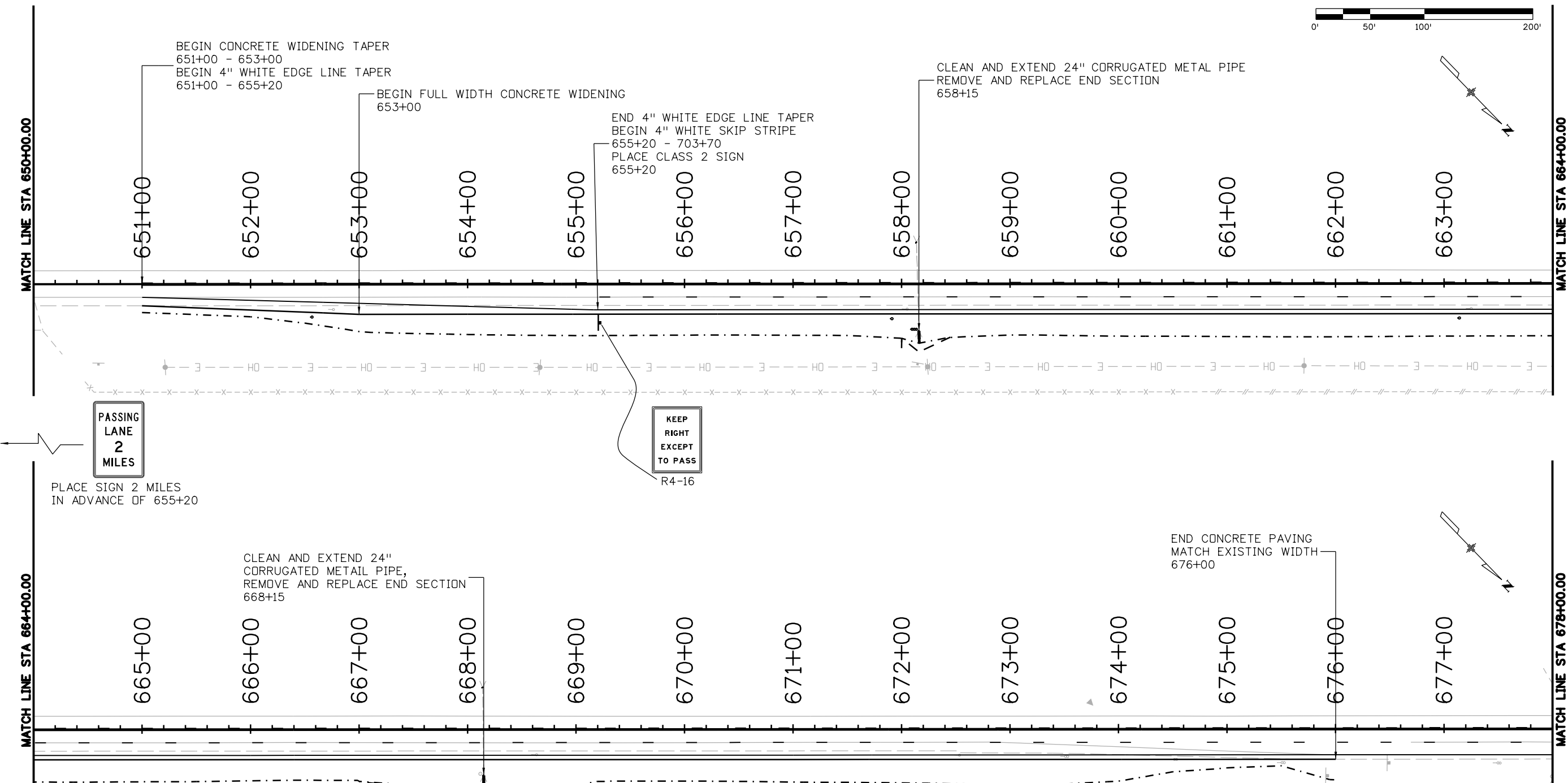
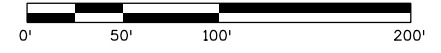
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<b>WILD HORSE LOCATION CULVERT DETAILS</b>			
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**PASSING LANE  
2  
MILES**

PLACE SIGN 2 MILES  
IN ADVANCE OF 655+20

**KEEP  
RIGHT  
EXCEPT  
TO PASS**  
R4-16

CULVERT DETAILS		
Location	658+15	668+15
Size	24"	24"
Material	Corrugated Steel	Corrugated Steel
Existing Flowline Elevation	4876.668'	4879.314'
New Flowline Elevation	4876.63'	4879.76'
Slope	0.31%	0.47%
New pipe length (excluding end section)	8'	10'
End section	yes	yes
Safety Grate per M-603-12	no	no

**NOTES:**  
Culverts extensions and end sections shall be connected per Standard M-603-10

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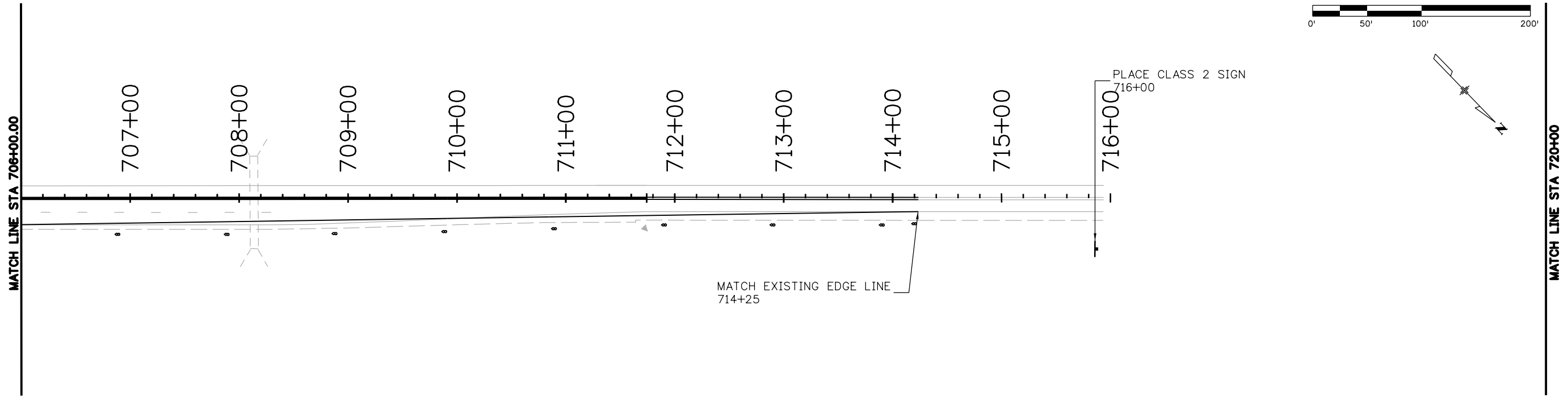
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ROADWAY WIDENING PLANS (REST AREA)			
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ROADWAY WIDENING PLANS (REST AREA)			
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H. Flow arrows that depict stormwater flow directions on-site and runoff direction

I. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS See SWMP Site Maps

J. LOCATIONS OF AL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY See SWMP Site Maps

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.

**3. QUALIFIED STORMWATER MANAGERS:**

A. SWMP ADMINISTRATOR FOR DESIGN:

Name/Title	Contact Information
Jake Schuch/PE I	970-350-2205, jake.schuch@state.co.us

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

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

C. EROSION CONTROL INSPECTOR: (As defined in Subsection 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)	Certification #	Start Date	Engineer Approval

**4. STORMWATER MANAGEMENT CONTROLS 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.

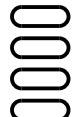

B. OFFSITE DRAINAGE (RUN ON WATER)

1. 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 PAD/VEHICLE TRACKING CONTROL

1. Control measures shall be implemented in accordance with subsection 208.04.

D. PERIMETER CONTROL

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**5. DURING CONSTRUCTION**

RESPONSIBILITIES OF THE SWMP Administrator for Construction

The SWMP is a living document "living document" that is continuously reviewed and modified throughout the construction phasing. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator for Construction in accordance with subsection 208.03.

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

- A. STOCKPILE MANAGEMENT: Shall be done in accordance with subsection 107.25 and 208.07
- B. CONCRETE WASHOUT: Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
- C. SAW CUTTING: Shall be done in accordance with subsection 107.25, 208.04, 208.05
- D. STREET SWEEPING: Shall be done in accordance with subsection 208.04

**6. INSPECTIONS**

- A. Inspections shall be in accordance with subsection 208.03(c).

**7. CONTROL MEASURE MAINTENANCE**

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

**8. RECORD KEEPING**

- A. 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

Seeding will be required for an estimated 5.8 acres of disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Oats	Avena Sativa	5.0
Indian Ricegrass	Achnatherum hymenoides Nees	1.9
Sand Bluestem	Andropogon hallii Goldstrike	1.8
Sideoats Grama	Bouteloua Curtipendula VNS	2.2
Blue Grama	Bouteloua gracilis Alma	0.4
Alkali Sacaton	Sporobolus airoides Saltalk	0.3
Little Bluestem	Schizachyium scoparium Aldous	1.2
Western Wheatgrass	Pascopyrum smithii Barton	4.0
Saltgrass	Distichlis spicata VNS	1.0
Green Needlegrass	Nassella viridula Lodorm	1.0
Tanseyleaf Tansyaster	Machaeranthera tanacetifolia VNS	0.4
Sulphur-Flower Buckwheat	Eriogonum umbellatum VNS	0.8
<b>TOTAL</b>		<b>20.0</b>

- B. SEEDING APPLICATION: Drill seed 0.25 inch to 0.5 inch into the soil. In small areas not accessible to a drill, hand broadcast or hydroseed at double the rate and rake 0.25 inch to 0.5 inch into the soil per

subsection 212. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

C. MULCHING APPLICATION: Apply a minimum of 2 tons of certified weed free hay or 2 1/2 tons 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.

- 1. 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 subsections 208 and 213.

D. SPECIAL REQUIREMENTS:

- 1. Due to high failure rates, hydroseeding will not be allowed for permanent stabilization.

Biological nutrient organic based fertilizer (lbs./acre)*	Humate (lbs./acre)	Compost (yd <sup>3</sup> /acre) <b>All areas &lt;2:1</b> [1/2 inch depth]
300	200	65

\*Biological nutrient organic based fertilizer shall not exceed 8-8-8 (N-P-K).

Compost shall be in accordance to 212.02.

Humate shall be in accordance to 212.02.

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.


- 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.

**10. PRIOR TO PROJECT FINAL ACCEPTANCE**

A. Partial Acceptance shall be in accordance with subsection 107.25 (d), 208.10 and 214.04. At the Partial Acceptance of the project, it shall be determined by the SWMP Administrator for Construction and the Engineer which temporary control measures shall remain until 70% revegetation is established or which shall be removed.

B. At the end of the project, all ditch checks shall either consist of temporary erosion logs (or equivalent) or permanent riprap.

All storm drains shall be cleaned prior to the Final Acceptance of the project. Work shall be included in 202 Clean Culvert.

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**11. 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 "P" 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			X	
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		P	X	X
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				
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			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			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		P	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 start of construction disturbances.	M-208			X	
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				
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				

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OUTLET PROTECTION <i>Riprap, or approved other</i>	Material placed as energy dissipator to prevent erosion at outlet structure.	M-601-12				
CONCRETE WASHOUT <i>In-ground or fabricated</i>	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		P	X	
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 <i>(Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)</i>	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						

**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>

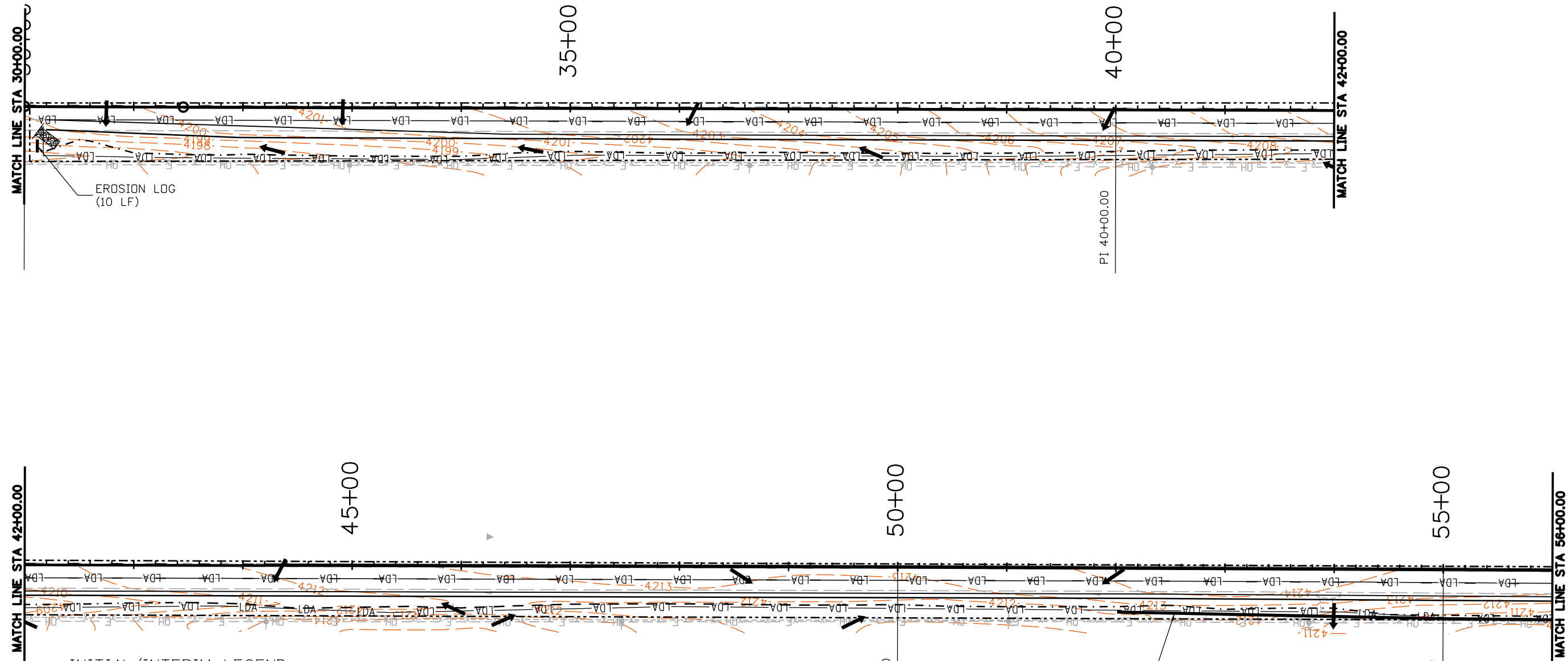
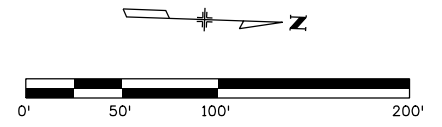
APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
* VEGETATIVE BUFFER STRIP <i>Fence (plastic)</i>	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.			X		
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 <i>Windrow or stockpile</i>	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.				X	
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				X	
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.				X	

Print Date: 8/18/2020		<b>Sheet Revisions</b>			<b>Colorado Department of Transportation</b> 10601 W. 10th St. Greeley, CO 80634 Phone: 970-350-2211 FAX: 970-350-2198  <b>Region 4</b>	<b>As Constructed</b>		<b>STORMWATER MANAGEMENT PLAN</b>			<b>Project No./Code</b>
File Name: SWMP Notes.dgn		Date:	Comments:	Init.		No Revisions:				NHPP R400-370	
Horiz. Scale: 1:1      Vert. Scale: As Noted						Revised:	Designer: MJS	Structure Numbers			22975
Unit Information      Unit Leader Initials						Void:	Detailer: MJS	Subset Sheets:			Sheet Number <b>35</b>





schuchm 10:37:23 AM pw:\CDOT\APP56.dot\state.co.uspwiseproduction\Documents\Projects\22000-22999\900-999\22975 - us 287 and sh 40 passing lanes\Drawings\Location 1-287 South of Kit Carson NE\22975\_SWMP\_Initial1.dgn



PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020	<b>0000</b>
File Name: 22975_SWMP_Initial1.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

10601 W. 10th St.  
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Phone: 970-350-2211  
FAX: 970-350-2198

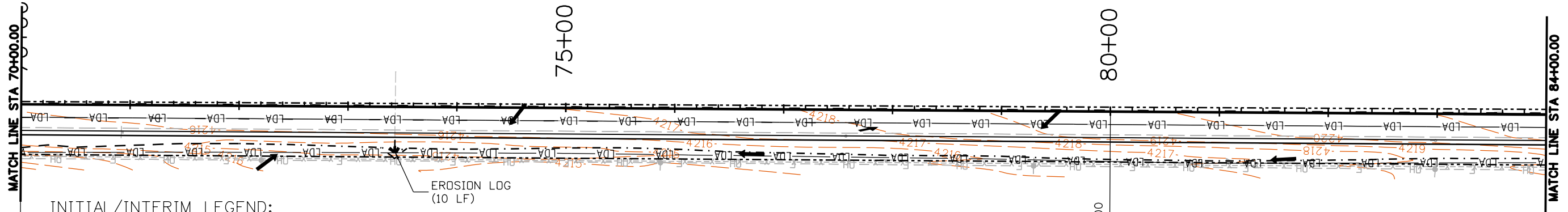
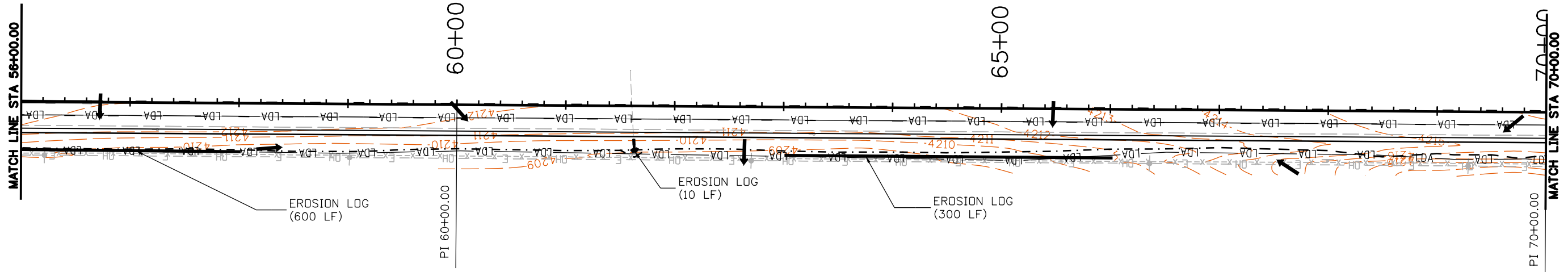
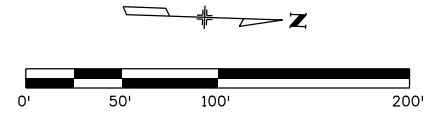
**Region 4**      **KMK**

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

<b>STORMWATER MANAGEMENT PLAN SITE MAP - INITIAL SOUTH OF KIT CARSON</b>			
Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:			

<b>Project No./Code</b>
NHPP R400-370
22975
<b>Sheet Number</b> <b>37</b>

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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LODA)	—————	EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020	<b>0000</b>
File Name: 22975_SWMP_Initial 2.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

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Phone: 970-350-2211  
FAX: 970-350-2198

**Region 4      KMK**

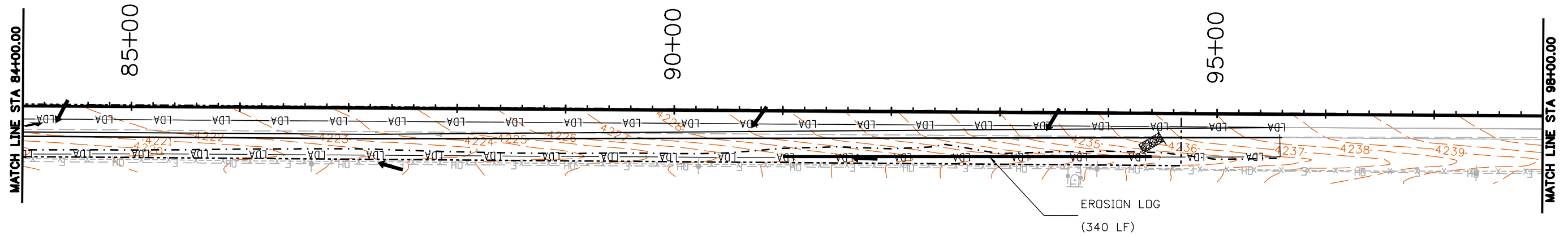
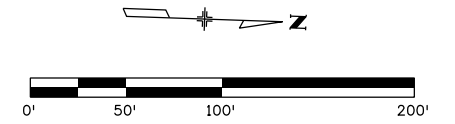
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No Revisions:
Revised:
Void:

<b>STORMWATER MANAGEMENT PLAN SITE MAP - INITIAL SOUTH OF KIT CARSON</b>			
Designer:	MJS	Structure	
Detailer:	MJS	Numbers	
Sheet Subset:		Subset Sheets:	

<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>38</b>



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INITIAL/INTERIM LEGEND:

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
- - - - -	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020	0000
File Name: 22975_SWMP_Initial 3.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

10601 W. 10th St.  
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Phone: 970-350-2211  
FAX: 970-350-2198

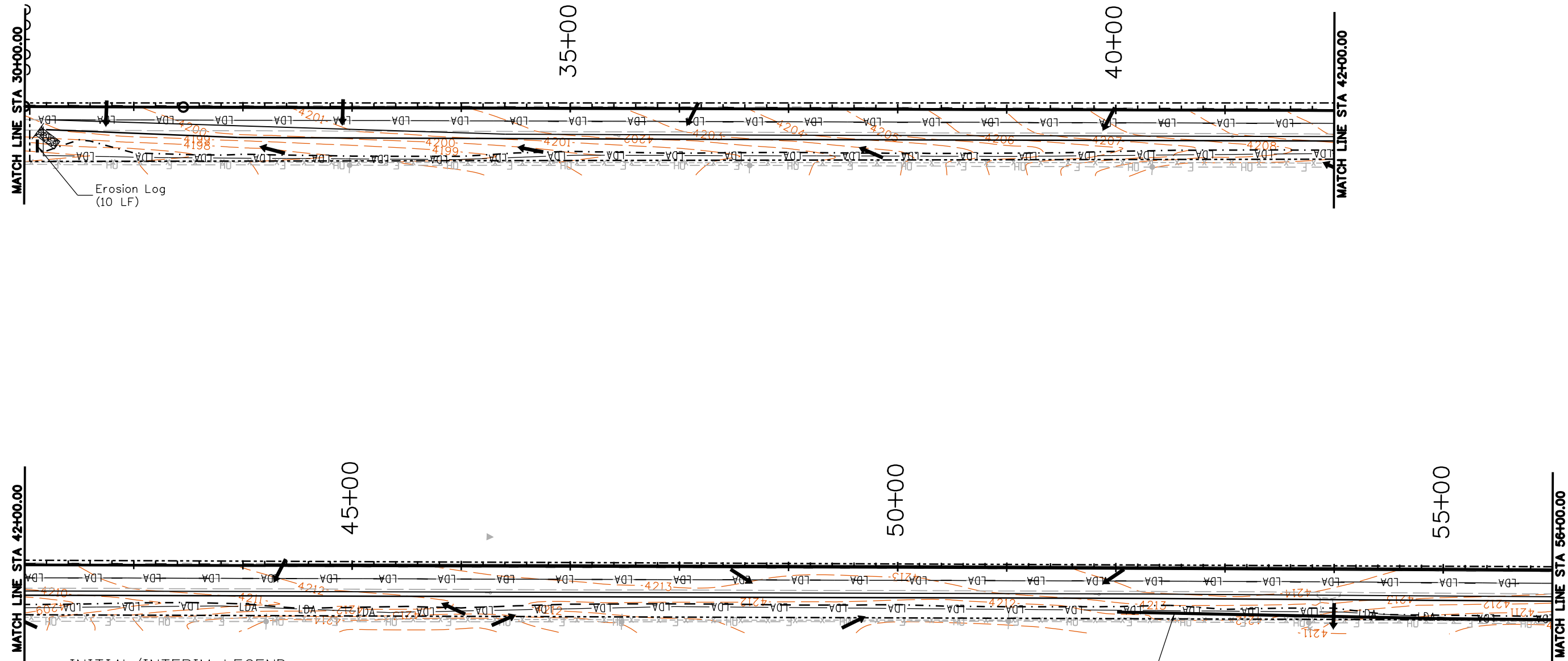
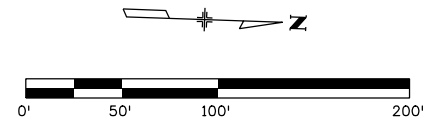
Region 4      KMK

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

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Designer:	MJS	Structure Numbers	
Detailer:	MJS		
Sheet Subset:		Subset Sheets:	

<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>39</b>

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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LODA)		EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020	<b>0000</b>
File Name: 22975_SWMP Interim 1_without ditch checks.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

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FAX: 970-350-2198

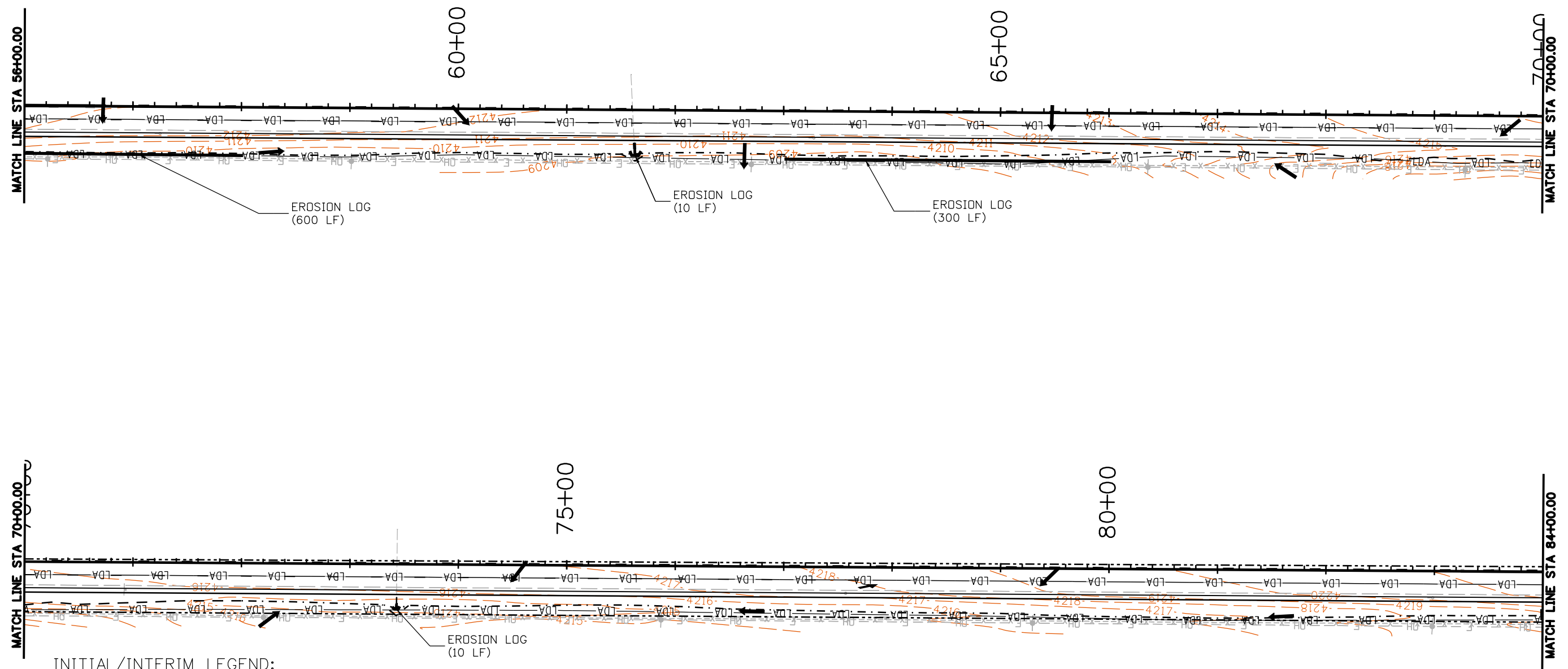
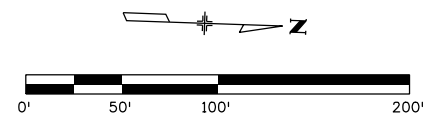
**Region 4**      **KMK**

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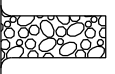
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Designer:	MJS	Structure	
Detailer:	MJS	Numbers	
Sheet Subset:		Subset Sheets:	


<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>40</b>

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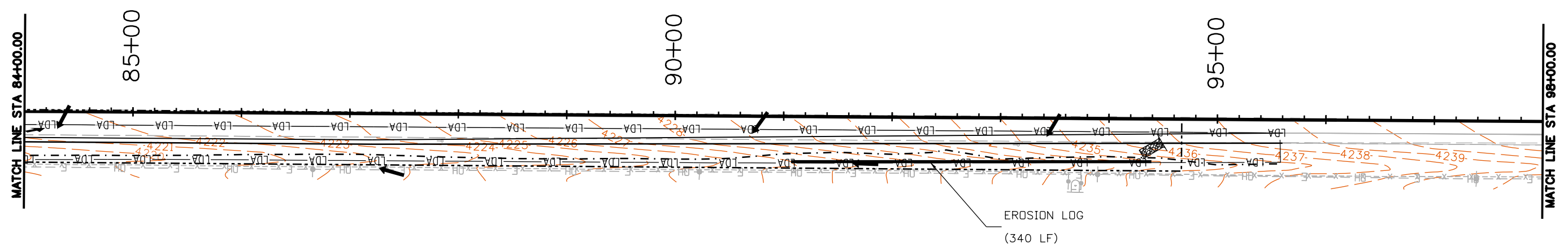
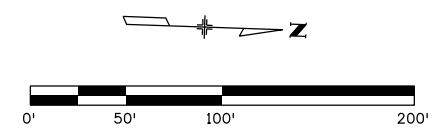
**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LODA)	—————	EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020 File Name: 22975_SWMP Interim 2_without ditch checks.dgn Horiz. Scale: 1:100      Vert. Scale: As Noted Unit Information      Unit Leader Initials	<b>0000</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th style="width: 20%;">Date:</th> <th style="width: 50%;">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> </tbody> </table>	Sheet Revisions			Date:	Comments	Init.										 <b>Colorado Department of Transportation</b> 10601 W. 10th St. Greeley, CO 80634 Phone: 970-350-2211 FAX: 970-350-2198  <b>Region 4</b>	<b>KMK</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">As Constructed</th> </tr> <tr> <td>No Revisions:</td> <td> </td> </tr> <tr> <td>Revised:</td> <td> </td> </tr> <tr> <td>Void:</td> <td> </td> </tr> </table>	As Constructed		No Revisions:		Revised:		Void:		<b>STORMWATER MANAGEMENT PLAN</b> <b>SITE MAP - INTERIM</b> <b>SOUTH OF KIT CARSON</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Designer:</td> <td>MJS</td> <td>Structure Numbers:</td> <td> </td> </tr> <tr> <td>Detailer:</td> <td>MJS</td> <td>Subset Sheets:</td> <td> </td> </tr> <tr> <td>Sheet Subset:</td> <td> </td> <td> </td> <td> </td> </tr> </table>	Designer:	MJS	Structure Numbers:		Detailer:	MJS	Subset Sheets:		Sheet Subset:				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Project No./Code</td> </tr> <tr> <td colspan="2" style="text-align: center;">NHPP R400-370</td> </tr> <tr> <td colspan="2" style="text-align: center;">22975</td> </tr> <tr> <td>Sheet Number</td> <td style="text-align: right;"><b>41</b></td> </tr> </table>	Project No./Code		NHPP R400-370		22975		Sheet Number	<b>41</b>
Sheet Revisions																																																			
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INITIAL/INTERIM LEGEND:

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
----	TOP OF CUT		
-.-.-.-.-	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020	0000
File Name: 22975_SWMP Interim 3_without ditch check.dgn	
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Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

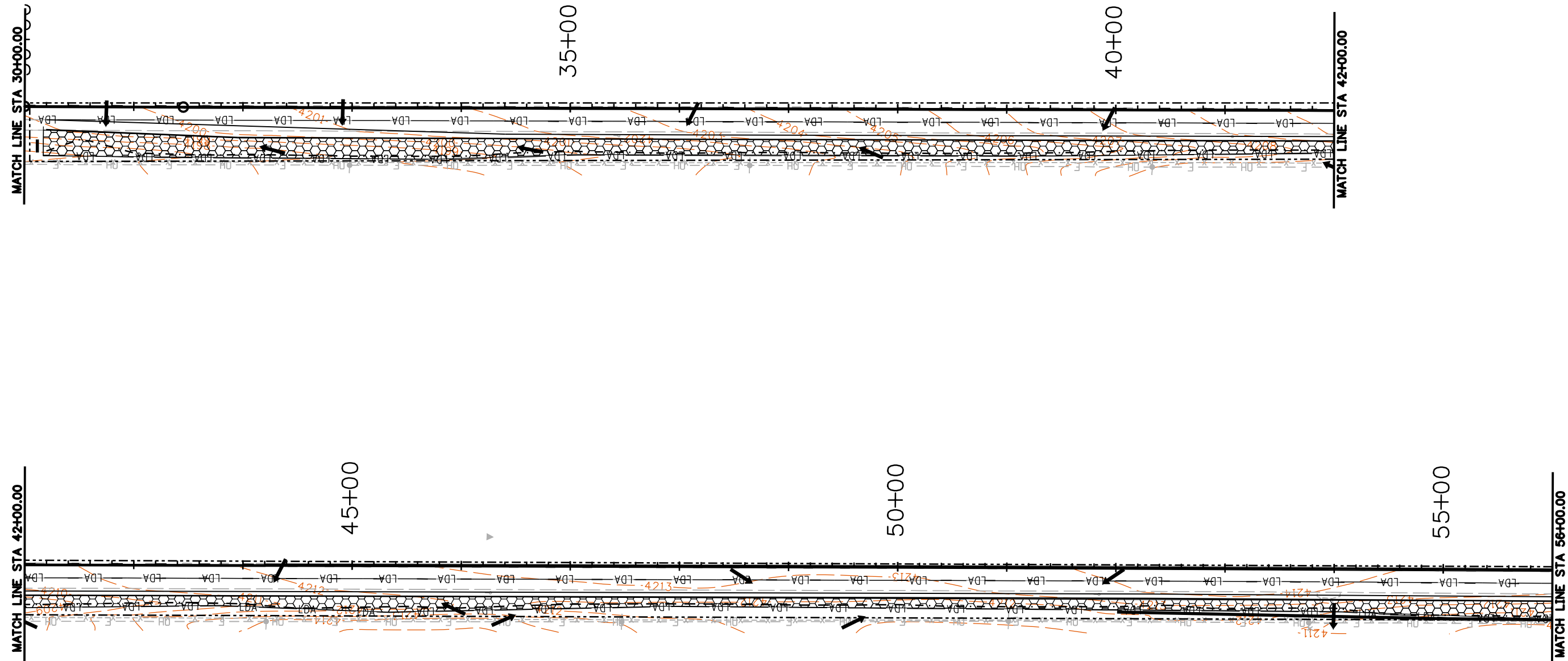
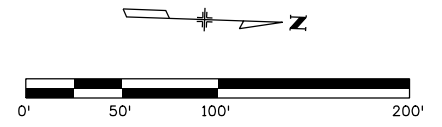
**Colorado Department of Transportation**  
 10601 W. 10th St.  
 Greeley, CO 80634  
 Phone: 970-350-2211  
 FAX: 970-350-2198  
**Region 4**

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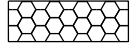

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Designer: MJS	Structure Numbers
Detailer: MJS	
Sheet Subset:	Subset Sheets:


<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>42</b>

schuchm 10:37:39 AM pw:\cddot\app56.dot.state.co.us\pwise\production\Documents\Projects\22000-22999\900-999\22975 - us 287 and sh 40 passing lanes lim\Design\Drawings\Location 1-287 South of Kit Carson NB\22975\_SWMP\_FINAL\_1\_without ditch checks

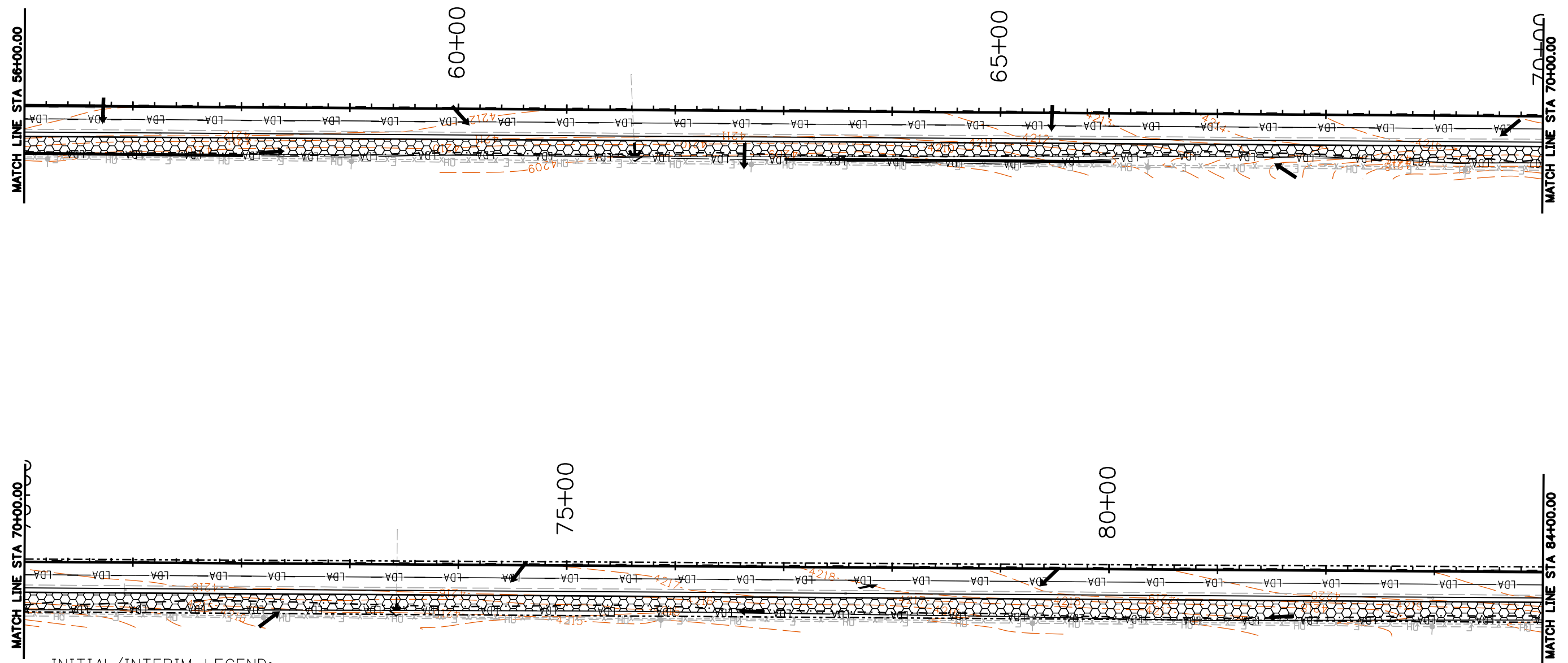
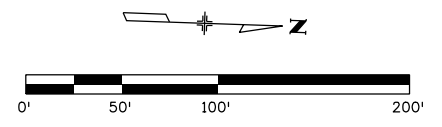


**INITIAL/INTERIM LEGEND:**



PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		SEED AND MULCH
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LDA)		EROSION LOG (TYPE 1) (20 INCH)
---	TOP OF CUT		
----	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020	<b>0000</b>	<b>Sheet Revisions</b>			 <b>Colorado Department of Transportation</b> 10601 W. 10th St. Greeley, CO 80634 Phone: 970-350-2211 FAX: 970-350-2198  <b>Region 4</b>	<b>As Constructed</b>	<b>STORMWATER MANAGEMENT PLAN</b>			<b>Project No./Code</b>	
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Horiz. Scale: 1:100      Vert. Scale: As Noted						Revised:	Designer: MJS	Structure Numbers			22975
Unit Information      Unit Leader Initials				Void:	Detailer: MJS	Subset Sheets:		Sheet Number <b>43</b>			

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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		SEED AND MULCH
-LDA——LDA—	LIMITS OF DISTURBED AREA (LDA)		EROSION LOG (TYPE 1) (20 INCH)
---	TOP OF CUT		
.....	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020	<b>0000</b>
File Name: 22975_SWMP_FINAL_2_without ditch checks.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**



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FAX: 970-350-2198

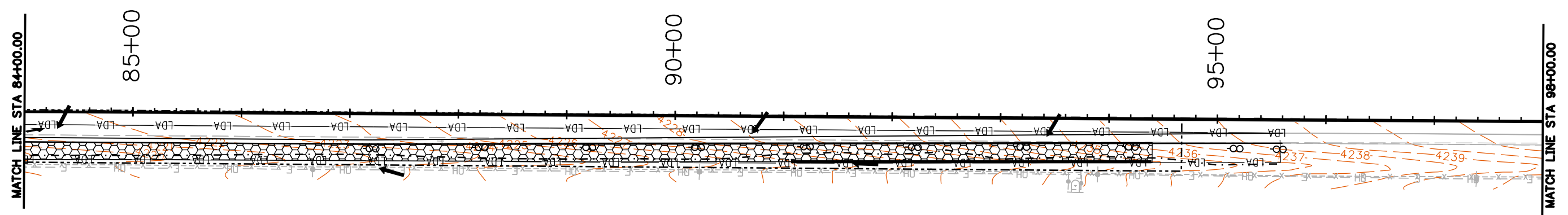
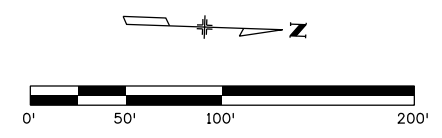
**Region 4      KMK**

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

STORMWATER MANAGEMENT PLAN SITE MAP - FINAL SOUTH OF KIT CARSON			
Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
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<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>44</b>

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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		SEED AND MULCH
-LDA—LDA—	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
---	TOP OF CUT		
-.-.-.-	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020	<b>0000</b>
File Name: 22975_SWMP_FINAL_3_without ditch checks.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

10601 W. 10th St.  
Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

**Region 4      KMK**

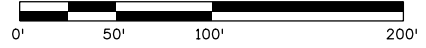
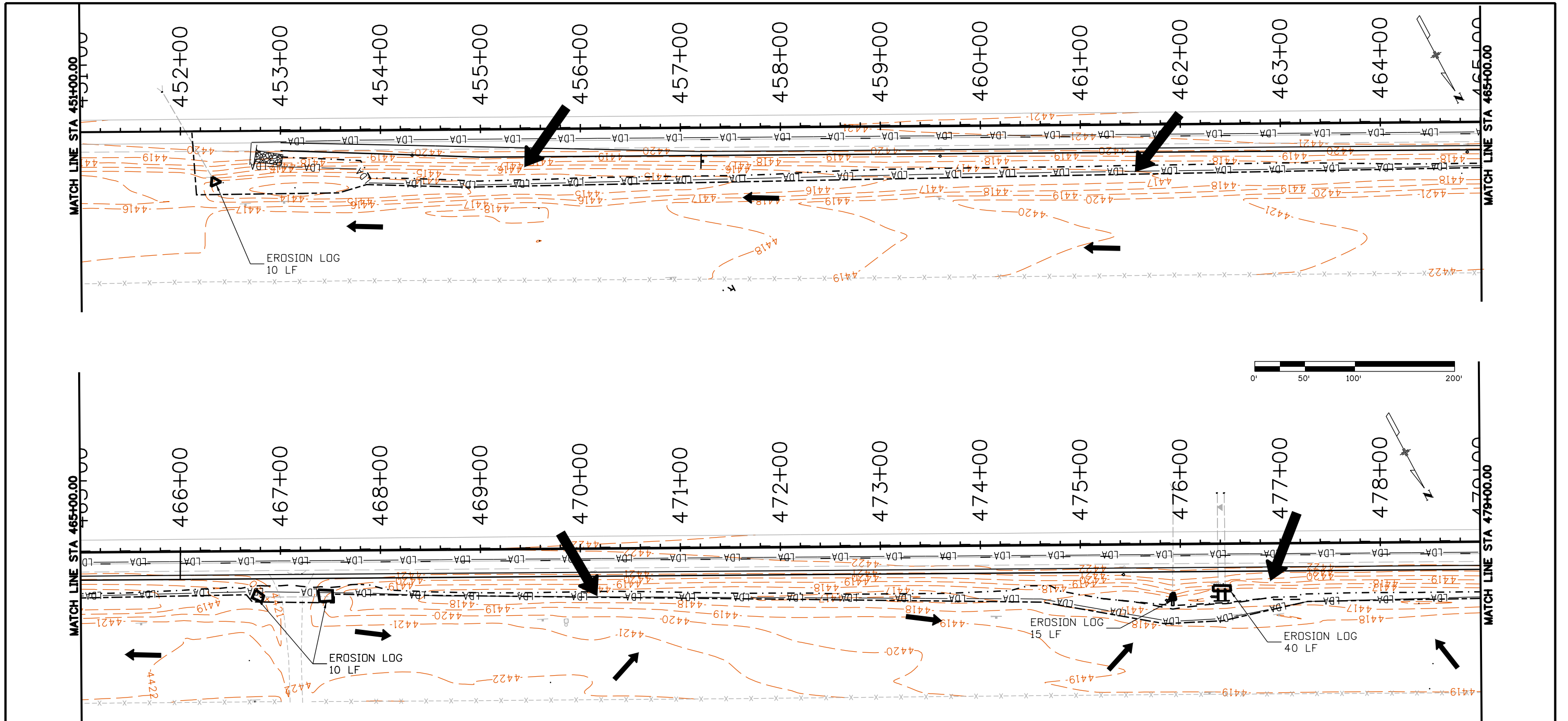
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No Revisions:
Revised:
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Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:			

<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>45</b>



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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
---	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA—LDA—	LIMITS OF DISTURBED AREA (LOA)	—	EROSION LOG (TYPE 1) (20 INCH)
---	TOP OF CUT		
---	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020  
 File Name: 22975\_SWMP Initial\_Wild Horse 1.dgn  
 Horiz. Scale: 1:100      Vert. Scale: As Noted  
 Unit Information      Unit Leader Initials

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	Date:	Comments	Init.

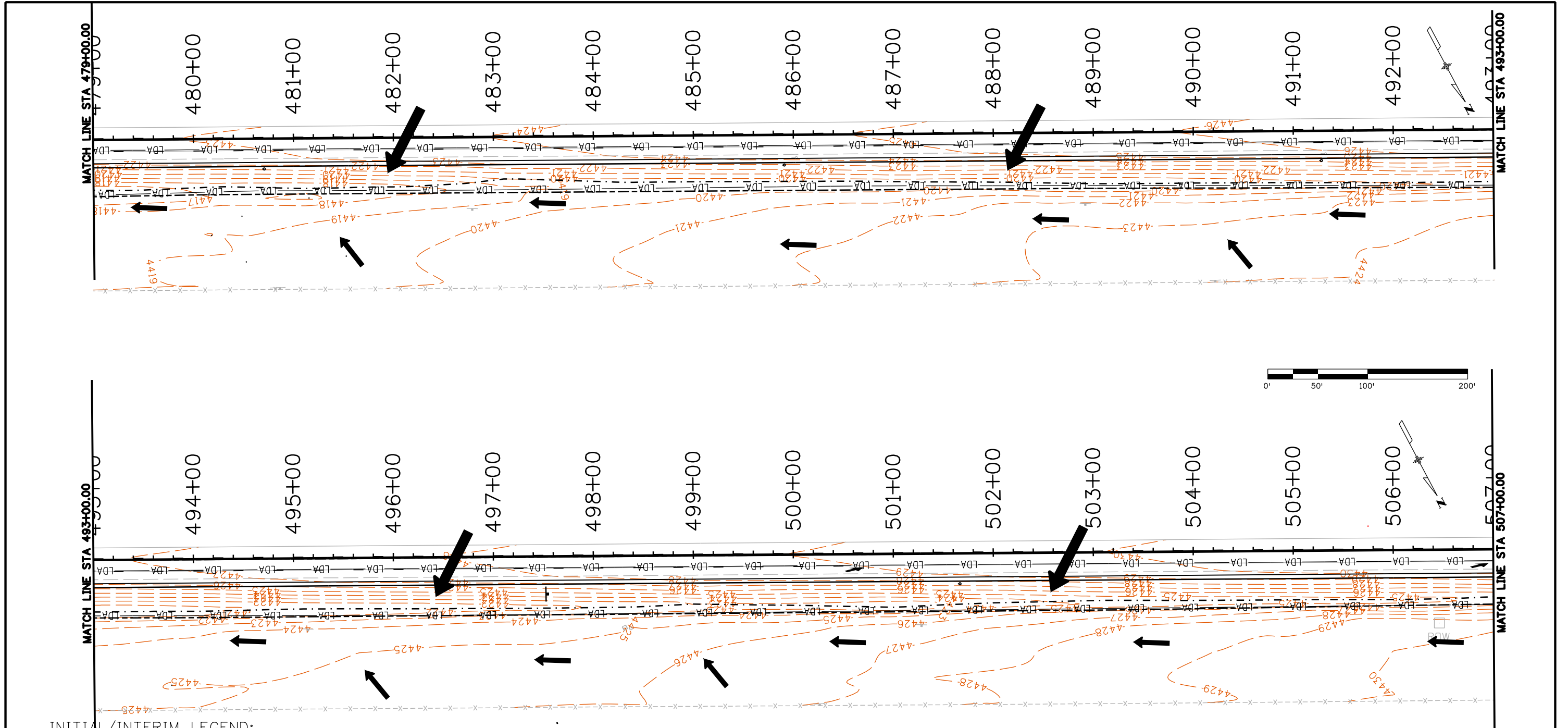
**Colorado Department of Transportation**  
 10601 W. 10th St.  
 Greeley, CO 80634  
 Phone: 970-350-2211  
 FAX: 970-350-2198

**Region 4**      **KMK**




As Constructed
No Revisions:
Revised:
Void:

STORMWATER MANAGEMENT PLAN	
SITE MAP - INITIAL	
WILD HORSE	
Designer: MJS	Structure Numbers
Detailer: MJS	Subset Sheets:
Sheet Subset:	

Project No./Code
NHPP R400-370
22975
Sheet Number <b>46</b>



**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
	FLOW ARROW		

Print Date: 8/18/2020	<b>0000</b>
File Name: 22975_SWMP Initial_Wild Horse_2.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

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Phone: 970-350-2211  
FAX: 970-350-2198

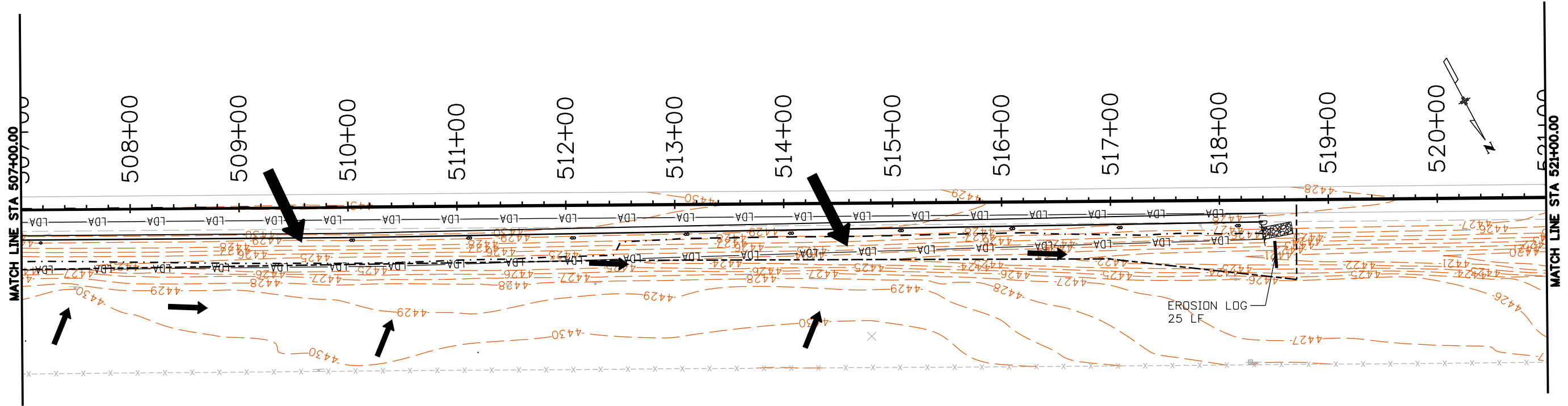
**Region 4** **KMK**

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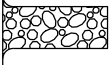


<b>STORMWATER MANAGEMENT PLAN</b>			
<b>SITE MAP - INITIAL</b>			
<b>WILD HORSE</b>			
Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:			

<b>Project No./Code</b>
NHPP R400-370
22975
<b>Sheet Number</b> <b>47</b>

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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
---	TOP OF CUT		
- - - - -	TOE OF FILL		
	FLOW ARROW		

Print Date: 8/18/2020
File Name: 22975_SWMP Initial_Wild Horse_3.dgn
Horiz. Scale: 1:100      Vert. Scale: As Noted
Unit Information      Unit Leader Initials

0000	Sheet Revisions		
	Date:	Comments	Init.

Colorado Department of Transportation



10601 W. 10th St.  
Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

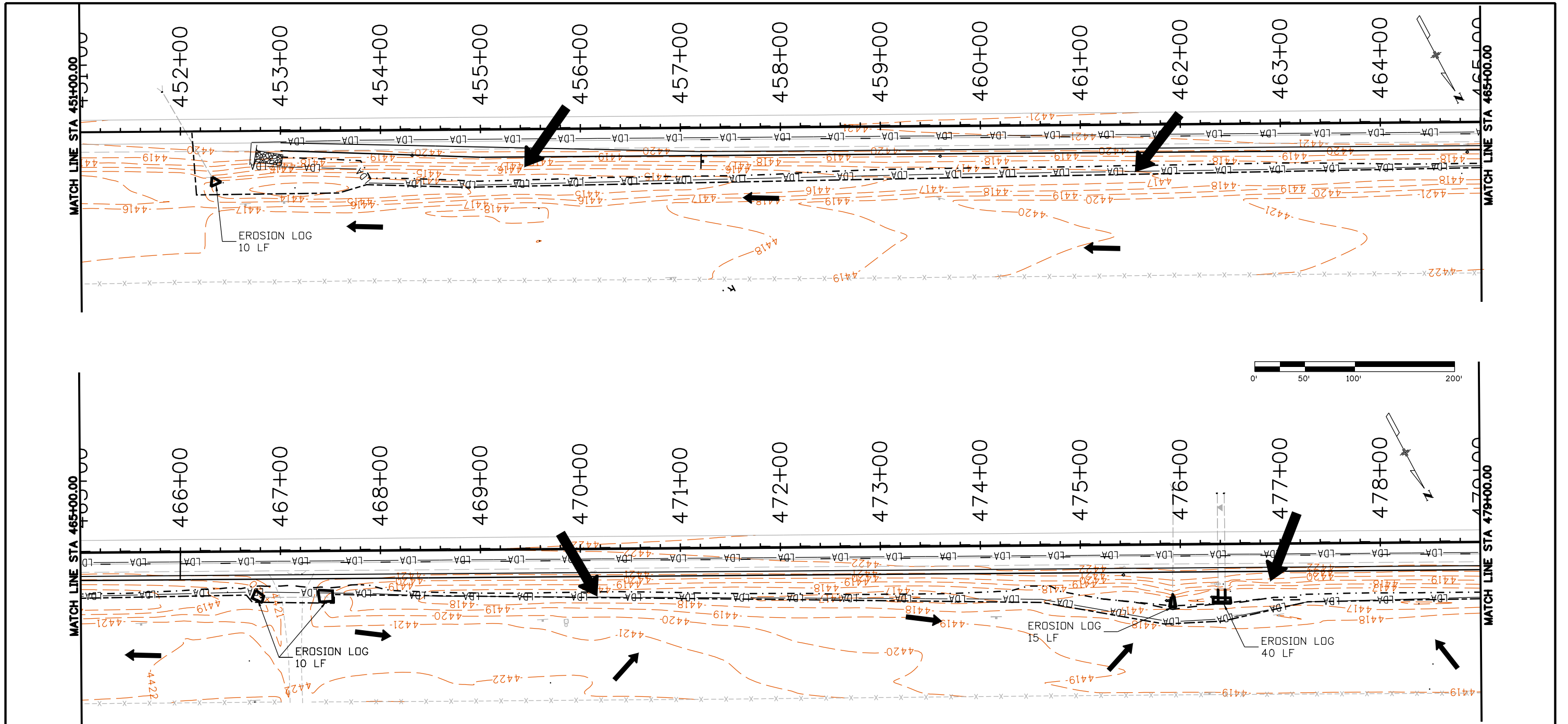
Region 4      KMK

<b>As Constructed</b>
No Revisions:
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<b>STORMWATER MANAGEMENT PLAN</b>			
<b>SITE MAP - INITIAL</b>			
<b>WILD HORSE</b>			
Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:			

<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>48</b>

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**INITIAL/INTERIM LEGEND:**



PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
---	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA—LDA—	LIMITS OF DISTURBED AREA (LOA)	—	EROSION LOG (TYPE 1) (20 INCH)
---	TOP OF CUT		
---	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020	0000
File Name: 22975_SWMP Interim_Wild Horse 1.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

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Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

 Region 4 CDOT

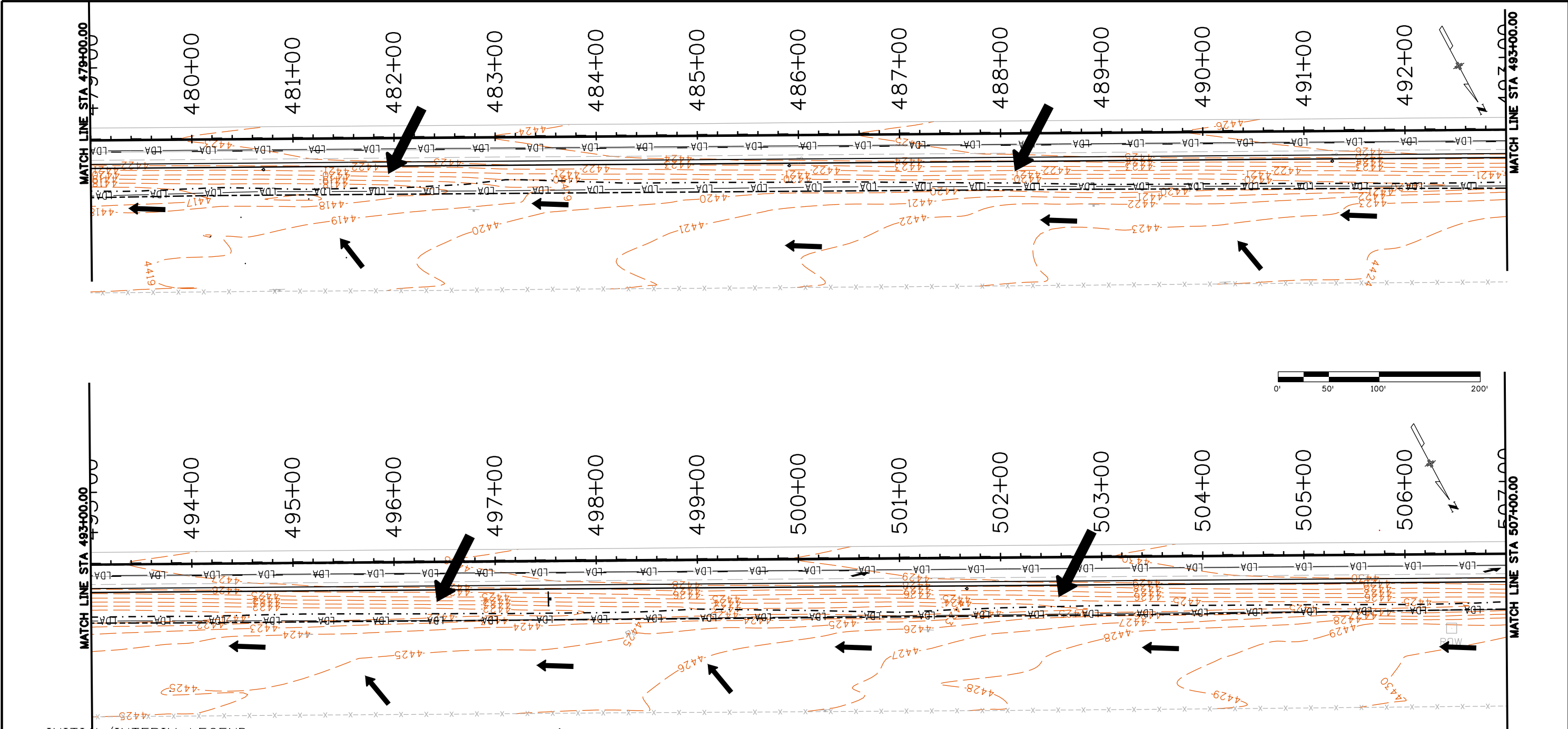
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No Revisions:
Revised:
Void:

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Designer:	MJS	Structure Numbers:	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:			

<b>Project No./Code</b>
NHPP R400-370
22975
<b>Sheet Number</b> <b>49</b>





**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
	FLOW ARROW		

Print Date: 8/18/2020	<b>0000</b>
File Name: 22975_SWMP Interim_Wild Horse_2.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

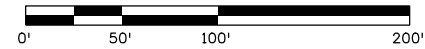
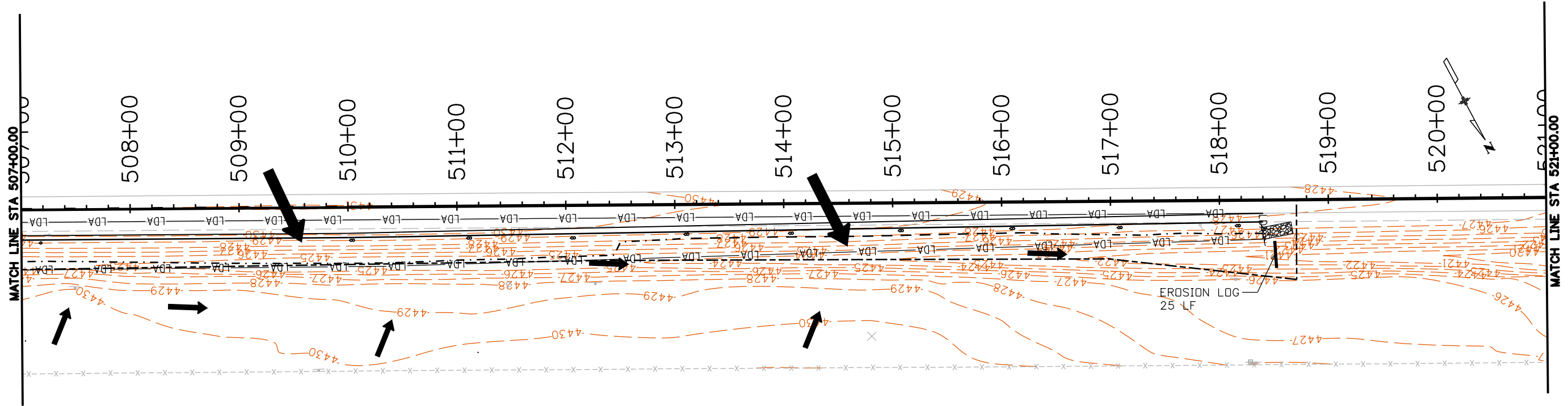
**Colorado Department of Transportation**  
 10601 W. 10th St.  
 Greeley, CO 80634  
 Phone: 970-350-2211  
 FAX: 970-350-2198  
**Region 4** **KMK**

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



<b>WILD HORSE SWMP SITE MAP - INTERIM</b>			
Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:			

<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>50</b>

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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
---	TOP OF CUT		
- - - - -	TOE OF FILL		
➔	FLOW ARROW		

Print Date: 8/18/2020  
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 Unit Information      Unit Leader Initials

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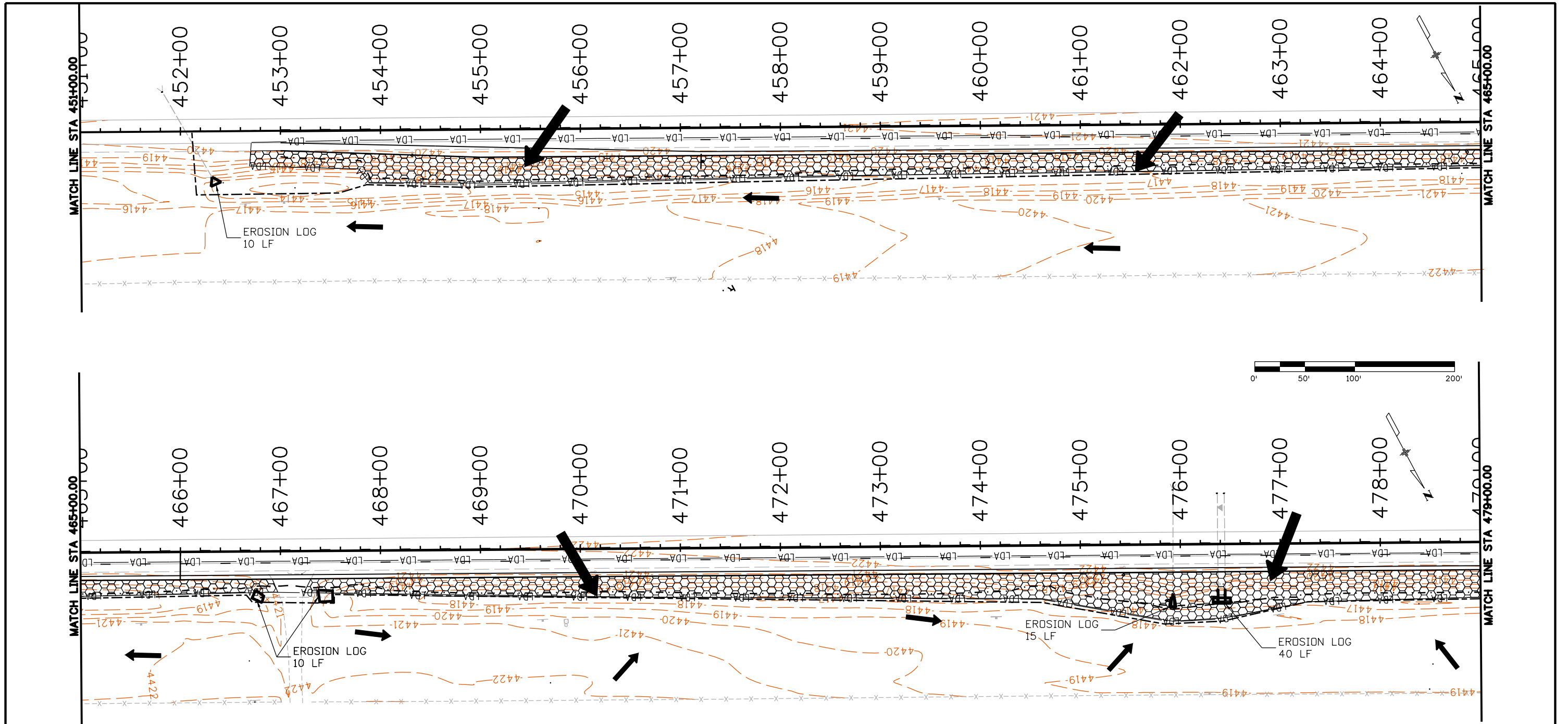
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**Colorado Department of Transportation**  
 10601 W. 10th St.  
 Greeley, CO 80634  
 Phone: 970-350-2211  
 FAX: 970-350-2198  
**Region 4**      **KMK**

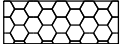

As Constructed
No Revisions:
Revised:
Void:

WILD HORSE SWMP SITE MAP - INTERIM			
Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:			

Project No./Code
NHPP R400-370
22975
Sheet Number <b>51</b>



**INITIAL/INTERIM LEGEND:**



PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		SEEDING AND MULCHING
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)	—————	EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
	FLOW ARROW		

Print Date: 8/18/2020	0000
File Name: 22975_SWMP_Final_Wild Horse 1.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

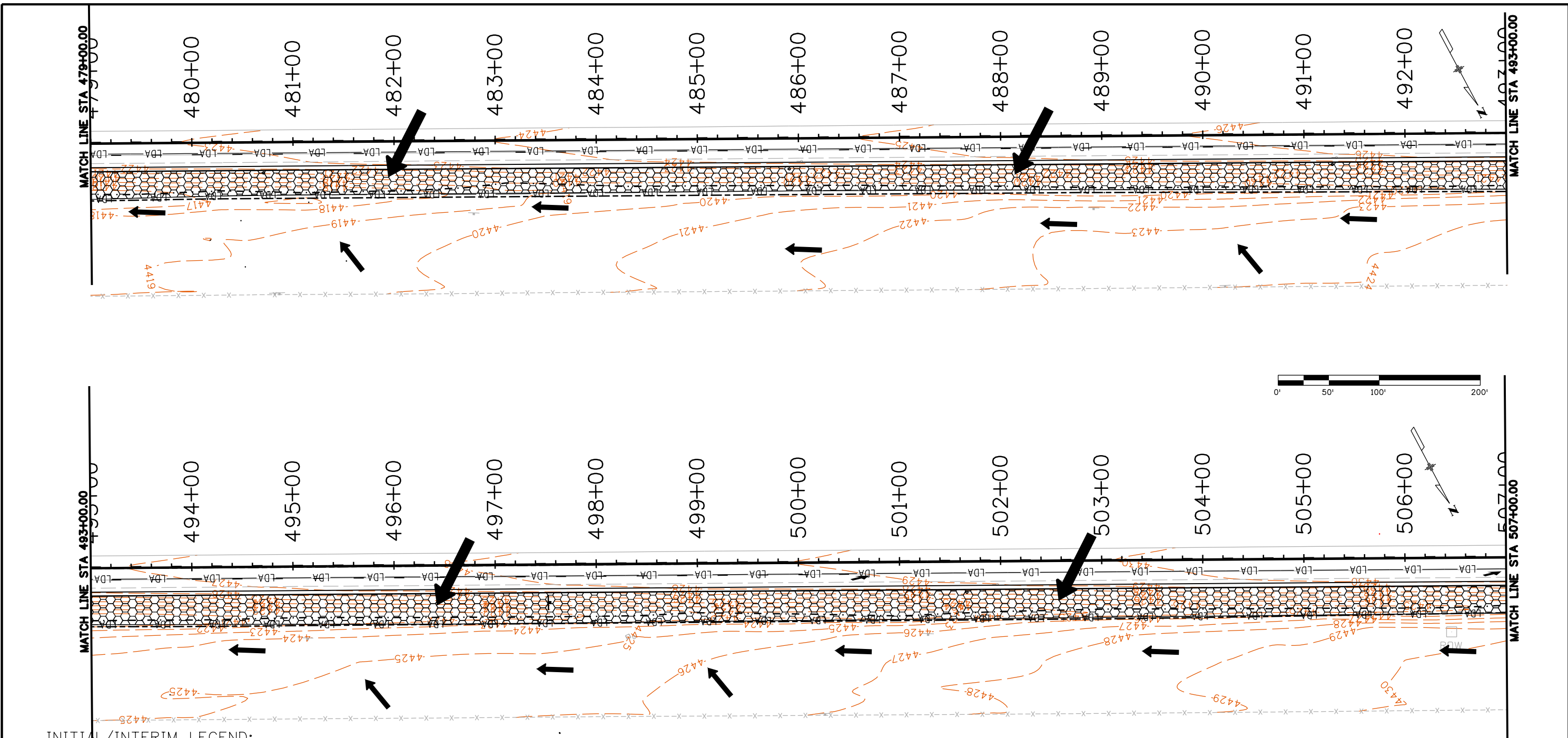
10601 W. 10th St.  
Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

 **Region 4** **KMK**

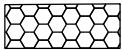

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Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:			

<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>52</b>




**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		SEEDING AND MULCHING
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)	—	EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
	FLOW ARROW		

Print Date: 8/18/2020	0000
File Name: 22975_SWMP_FINAL_Wild Horse_2.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

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**Region 4**      **KMK**

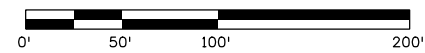
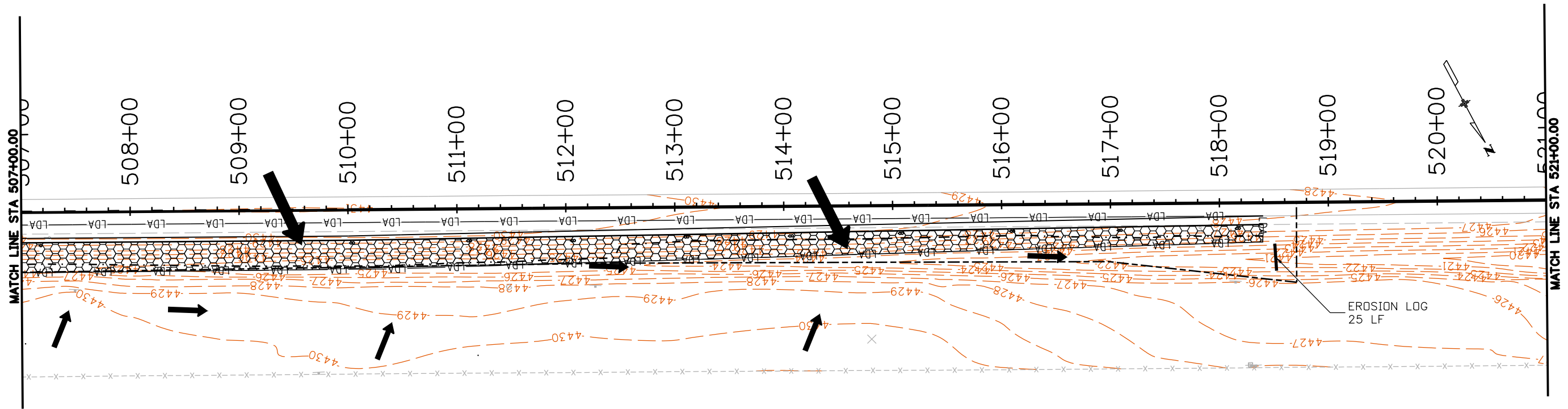
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Designer:	MJS	Structure Numbers	
Detailer:	MJS	Subset Sheets:	
Sheet Subset:			

<b>Project No./Code</b>
NHPP R400-370
22975
<b>Sheet Number</b> <b>53</b>



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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		SEEDING AND MULCHING
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
----	TOP OF CUT		
-.-.-.-	TOE OF FILL		
	FLOW ARROW		

Print Date: 8/18/2020	<b>0000</b>
File Name: 22975_SWMP_FINAL_Wild Horse_3.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

10601 W. 10th St.  
Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

**Region 4      KMK**


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

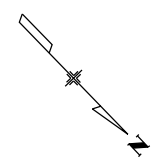
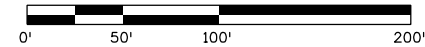
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NHPP R400-370
22975
Sheet Number <b>54</b>

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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA—LDA—	LIMITS OF DISTURBED AREA (LOA)	————	EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
→	FLOW ARROW		



MATCH LINE STA 650+00.00

MATCH LINE STA 664+00.00

MATCH LINE STA 664+00.00

MATCH LINE STA 678+00.00

651+00    652+00    653+00    654+00    655+00    656+00    657+00    658+00    659+00    660+00    661+00    662+00    663+00

665+00    666+00    667+00    668+00    669+00    670+00    671+00    672+00    673+00    674+00    675+00    676+00    677+00

PASSING LANE  
2  
MILES 220 LF

KEEP  
RIGHT  
EXCEPT  
TO PASS

EROSION LOG  
220 LF


EROSION LOG  
15 LF

EROSION LOG  
15 LF

Print Date: 8/18/2020
File Name: 22975_SWMP Initial_Rest Area 1.dgn
Horiz. Scale: 1:100      Vert. Scale: As Noted
Unit Information      Unit Leader Initials

0000	Sheet Revisions		
	Date:	Comments	Init.

Colorado Department of Transportation



10601 W. 10th St.  
Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

Region 4      KMK

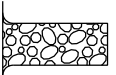
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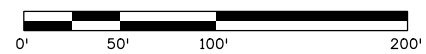
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Detailer:	MJS	Subset Sheets:	
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NHPP R400-370
22975
Sheet Number <b>55</b>

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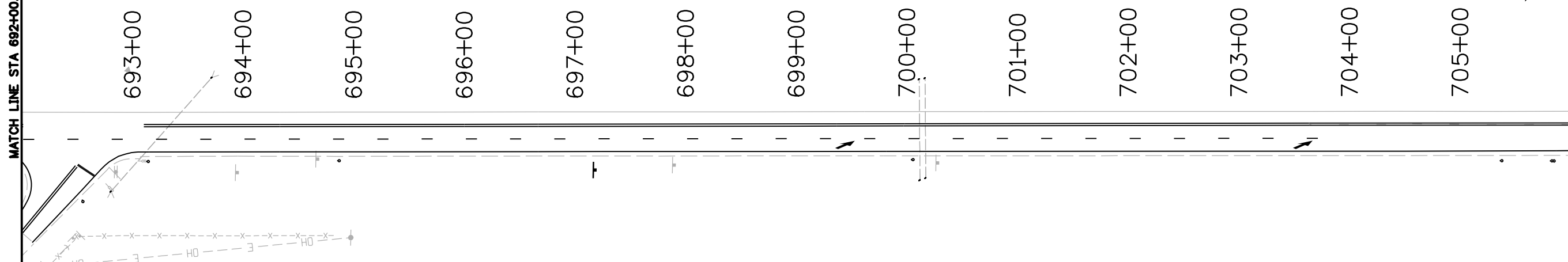
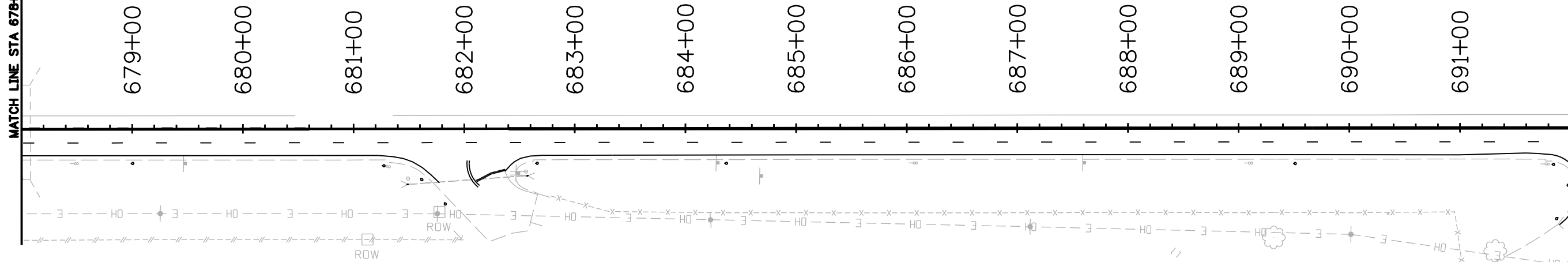
**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)	—————	EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
→	FLOW ARROW		



MATCH LINE STA 678+00.00

MATCH LINE STA 692+00.00




MATCH LINE STA 692+00.00

MATCH LINE STA 706+00.00

Print Date: 8/18/2020
File Name: 22975_SWMP Initial_Rest Area_2.dgn
Horiz. Scale: 1:100      Vert. Scale: As Noted
Unit Information      Unit Leader Initials

0000	Sheet Revisions		
	Date:	Comments	Init.

Colorado Department of Transportation



10601 W. 10th St.  
Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

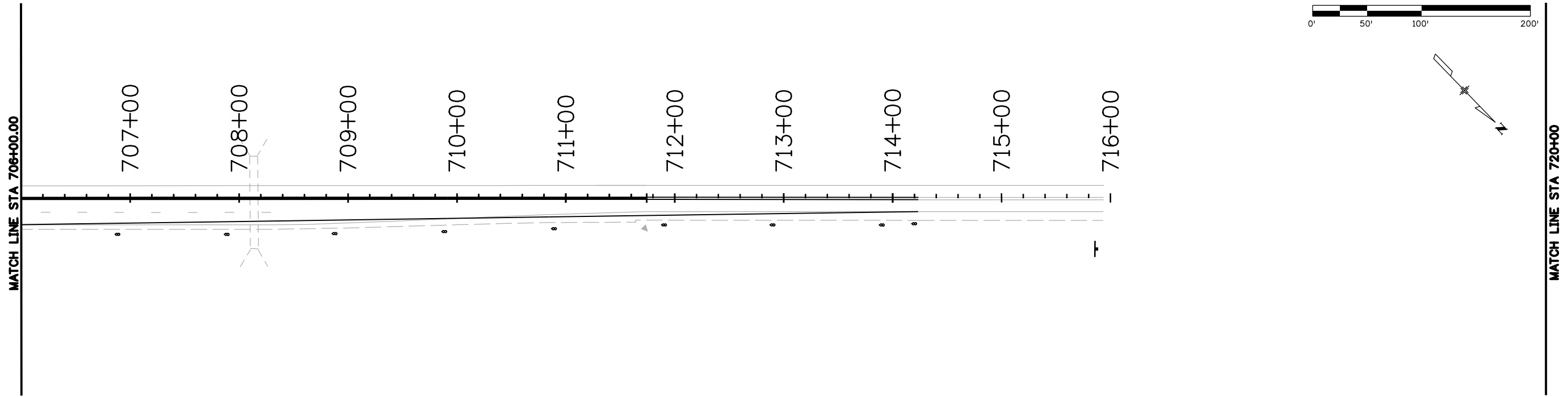
**Region 4**      **KMK**

<b>As Constructed</b>
No Revisions:
Revised:
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<b>STORMWATER MANAGEMENT PLAN</b>	
<b>SITE MAP - INITIAL</b>	
<b>REST AREA</b>	
Designer: MJS	Structure Numbers
Detailer: MJS	Subset Sheets:
Sheet Subset:	

<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>56</b>

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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA——LDA—	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
----	TOP OF CUT		
-.-.-.-	TOE OF FILL		
➔	FLOW ARROW		

Print Date: 8/18/2020	0000
File Name: 22975_SWMP_Initial_Rest_Area_3.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

10601 W. 10th St.  
Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

**Region 4**      **KMK**

<b>As Constructed</b>
No Revisions:
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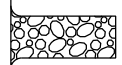
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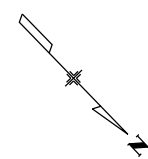
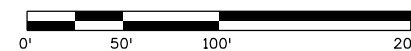
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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)	—————	EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
→	FLOW ARROW		



MATCH LINE STA 650+00.00

MATCH LINE STA 664+00.00

MATCH LINE STA 664+00.00

MATCH LINE STA 678+00.00

651+00    652+00    653+00    654+00    655+00    656+00    657+00    658+00    659+00    660+00    661+00    662+00    663+00

665+00    666+00    667+00    668+00    669+00    670+00    671+00    672+00    673+00    674+00    675+00    676+00    677+00

PASSING LANE  
2  
MILES  
220 LF

KEEP  
RIGHT  
EXCEPT  
TO PASS

EROSION LOG  
15 LF


EROSION LOG  
15 LF

Print Date: 8/18/2020
File Name: 22975_SWMP Interim_Rest Area_1.dgn
Horiz. Scale: 1:100      Vert. Scale: As Noted
Unit Information      Unit Leader Initials

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



10601 W. 10th St.  
Greeley, CO 80634  
Phone: 970-350-2211  
FAX: 970-350-2198

Region 4      KMK



As Constructed
No Revisions:
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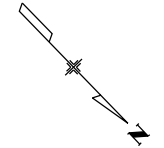
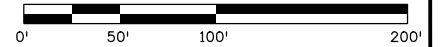
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SITE MAP - INTERIM	
REST AREA	
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Project No./Code
NHPP R400-370
22975
Sheet Number 58

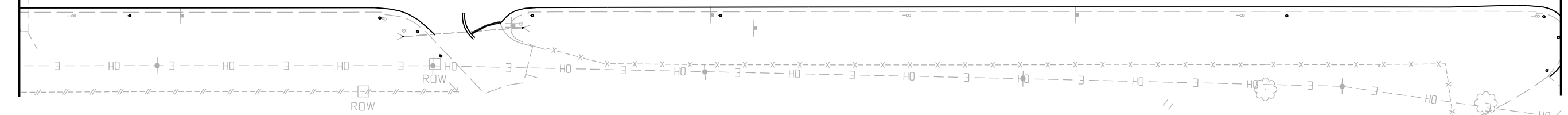
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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
----	TOP OF CUT		
- - - - -	TOE OF FILL		
→	FLOW ARROW		



MATCH LINE STA 678+00.00



MATCH LINE STA 692+00.00




MATCH LINE STA 692+00.00

MATCH LINE STA 706+00.00

Print Date: 8/18/2020	0000
File Name: 22975_SWMP Interim_Rest Area_2.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**



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Phone: 970-350-2211  
FAX: 970-350-2198

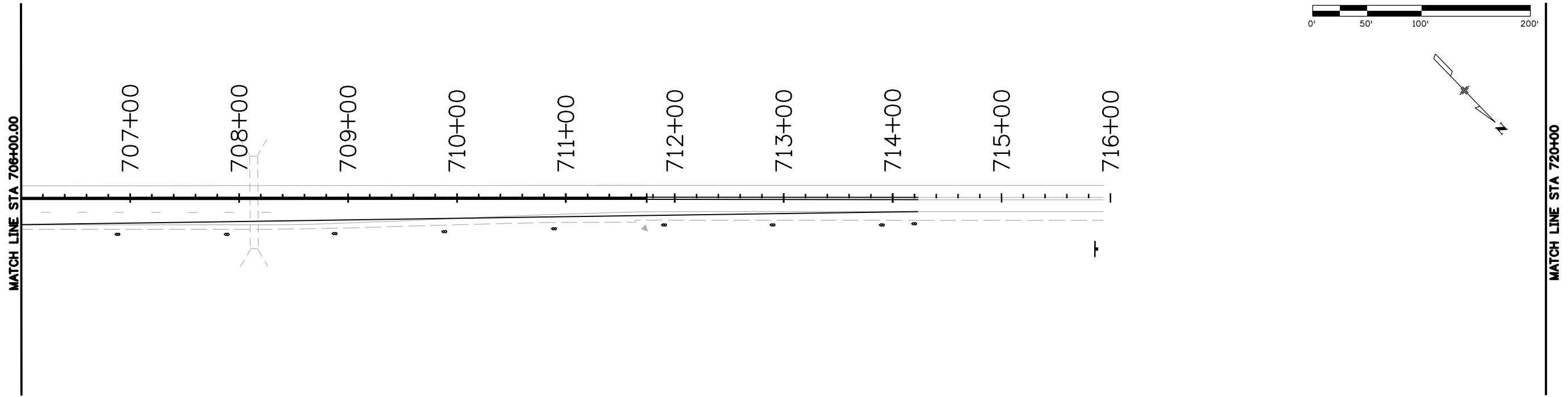
**Region 4**      **KMK**

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




<b>STORMWATER MANAGEMENT PLAN SITE MAP - INTERIM REST AREA</b>	
Designer: MJS	Structure Numbers
Detailer: MJS	Subset Sheets:
Sheet Subset:	

<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>59</b>

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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		VEHICLE TRACKING PAD
-LDA——LDA—	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
	FLOW ARROW		

Print Date: 8/18/2020	0000
File Name: 22975_SWMP Interim_Rest Area_3.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

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**Region 4**      **KMK**

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No Revisions:
Revised:
Void:

<b>STORMWATER MANAGEMENT PLAN SITE MAP - INTERIM REST AREA</b>	
Designer: MJS	Structure Numbers
Detailer: MJS	Subset Sheets:
Sheet Subset:	

<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>60</b>

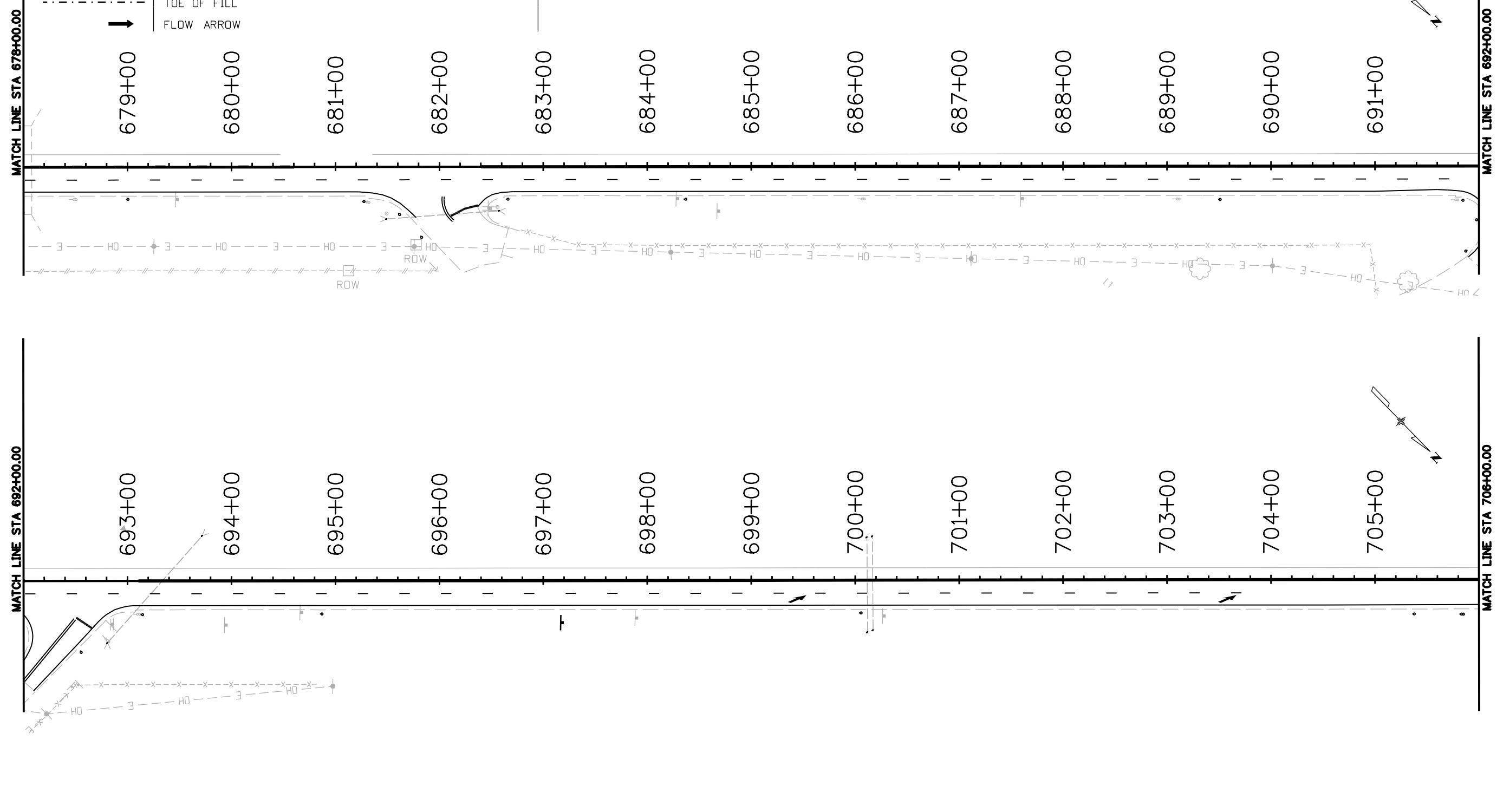
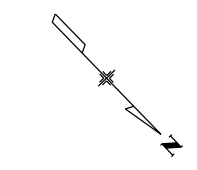
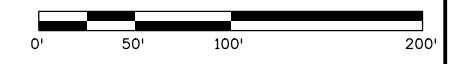




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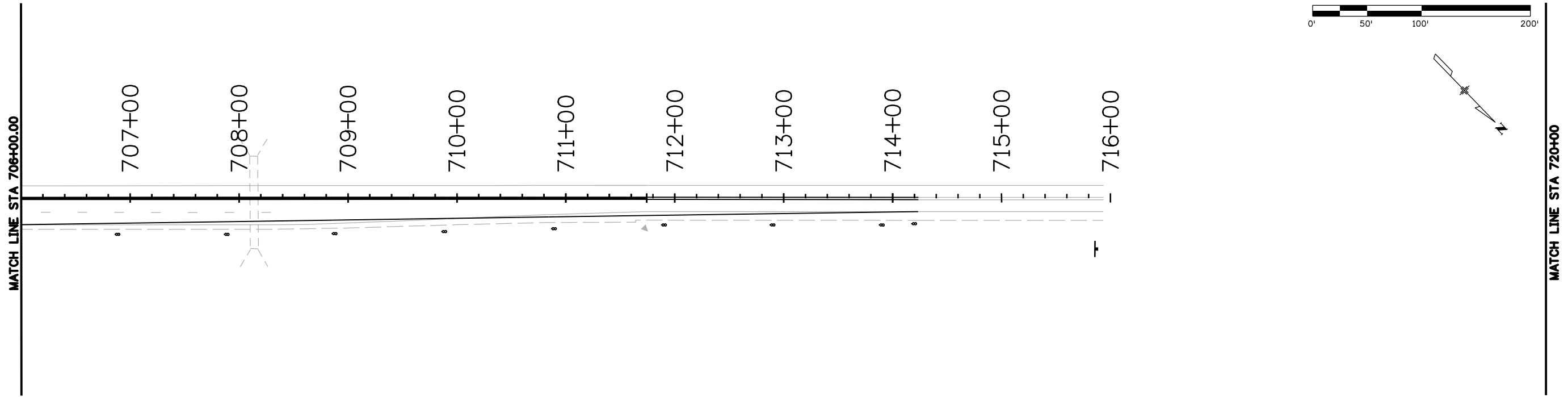
**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		SEED AND MULCH
-LDA-----LDA-	LIMITS OF DISTURBED AREA (LOA)	—————	EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
- - - - -	TOE OF FILL		
↓	FLOW ARROW		



Print Date: 8/18/2020	0000	<b>Sheet Revisions</b>			 <b>Colorado Department of Transportation</b> 10601 W. 10th St. Greeley, CO 80634 Phone: 970-350-2211 FAX: 970-350-2198 <b>Region 4</b>	<b>As Constructed</b> No Revisions: Revised: Void:	<b>STORMWATER MANAGEMENT PLAN</b>			<b>Project No./Code</b> NHPP R400-370 22975 Sheet Number <b>62</b>
File Name: 22975_SWMP_FINAL_Rest Area_2.dgn		Date:	Comments	Init.			<b>SITE MAP - FINAL</b>			
Horiz. Scale: 1:100      Vert. Scale: As Noted							<b>REST AREA</b>			
Unit Information      Unit Leader Initials							Designer: MJS	Structure Numbers		
							Detailer: MJS	Subset Sheets:		
							Sheet Subset:			

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**INITIAL/INTERIM LEGEND:**

PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	PLAN SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
-----	LIMITS OF CONSTRUCTION (LOC)		SEED AND MULCH
-LDA——LDA—	LIMITS OF DISTURBED AREA (LOA)		EROSION LOG (TYPE 1) (20 INCH)
-----	TOP OF CUT		
-----	TOE OF FILL		
→	FLOW ARROW		

Print Date: 8/18/2020	0000
File Name: 22975_SWMP_FINAL_Rest Area_3.dgn	
Horiz. Scale: 1:100      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

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Date:	Comments	Init.

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No Revisions:
Revised:
Void:

<b>STORMWATER MANAGEMENT PLAN SITE MAP - FINAL REST AREA</b>	
Designer: MJS	Structure Numbers
Detailer: MJS	Subset Sheets:
Sheet Subset:	Subset Sheets:

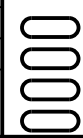
<b>Project No./Code</b>
NHPP R400-370
22975
Sheet Number <b>63</b>

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### Tabulation of Signs

Sign No.	Location	Station (approximate)	Direction	Sign Code	Sign Panel Size			Background Color	Legend	Sign Panel		614-01503	614-01583	Remarks
					W"	x	H"			Class I (614-00011)	Class II (614-00012)	Steel Sign Support (2-Inch Round)(Post & Socket)	Steel Sign Support (2-1/2" Round Sch 80 (Post & Slipbase)	
										EA	SF	EA	EA	
1	RT	See Remarks	NB	Special	36	x	54	Green	Passing/ Lane/ 2/ Miles		13.5		1	Place sign 2 miles in advance of STA 34+40
2	RT	34+40	NB	R4-16	36	x	48	White	Keep/Right/Except/To Pass		12		1	
3a	RT	70+95	NB	D10-3	10	x	36	Green	Mile/ 1/2/4	2.5		1		Northbound Facing
3b	RT	70+95	NB	D10-3	10	x	36	Green	Mile/ 1/2/4	2.5				Southbound Facing
4	RT	74+70	NB	W4-2R	36	x	36	Yellow	Lane Ends (RT) Symbol		9		1	
5	RT	See Remarks	NB	Special	36	x	54	Green	Passing/ Lane/ 1/ Mile		13.5		1	Place sign 1 mile in advance of STA 457+20
6	RT	457+20	NB	R4-16	36	x	48	White	Keep/Right/Except/To Pass		12		1	
7	RT	497+50	NB	W4-2R	36	x	36	Yellow	Lane Ends (RT) Symbol		9		1	
8	RT	See Remarks	NB	Special	36	x	54	Green	Passing/ Lane/ 2/ Miles		13.5		1	Place sign 2 miles in advance of STA 655+20
9	RT	655+20	NB	R4-16	36	x	48	White	Keep/Right/Except/To Pass		12		1	
10	RT	697+20	NB	W4-2R	36	x	36	Yellow	Lane Ends (RT) Symbol		9		1	
11	RT	716+00	NB	R2-1	36	x	48	White	Speed Limit (65)		12		1	
<b>Project Totals</b>										<b>5</b>	<b>116</b>	<b>1</b>	<b>10</b>	

Print Date: 8/18/2020	
File Name: 22975_DES_Permanent Traffic Signs.dgn	
Horiz. Scale: 1:1	Vert. Scale: As Noted
Unit Information	Unit Leader Initials



Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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Greeley, CO 80634  
Phone: 970-350-2211  
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**Region 4** KMK

As Constructed		PERMANENT SIGNING TABULATION	
No Revisions:		Designer: MJS	Structure Numbers
Revised:		Detailer: MJS	
Void:		Sheet Subset:	Subset Sheets:

Project No./Code	
NHPP R400-370	
22975	
Sheet Number	<b>64</b>

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Tabulation of Pavement Markings (Kit Carson Location)										
Location	Station/MP		REMARKS	Preformed Plastic Pavement Marking (Contrast)(Inlaid)	Modified Epoxy Pavement Marking (LF)					Preformed Thermoplastic Pavement Marking (SF)
	Begin	End		Lane	Edge	Center			Merge Symbol	
				White Broken	White Solid	Solid Double Yellow	Solid Broken Left Yellow	Broken Yellow		
US 287	22+70	30+20								
	30+20	44+20		1100	2800		1400			
	44+20	56+65		1245	2490	1245				
	56+65	87+20		3055	6110		2935		116	
	87+20	103+10			3180	1590				
TOTAL (LF)				5400	16080	2835	4335	750		
TOTAL (SF)				675	8040	1890	1806	63	116	
TOTAL (GAL)				NA	92	22	21	1		

Installation of Delineators (Kit Carson)					
Station Begin	Station End	Type I	Type II	Type III	Comments
30+20	94+40	9			
61+58	61+58			1	
73+40	73+40			1	
86+00	94+40		10		
Total		9	10	2	

Tabulation of Pavement Markings (Wild Horse Location)									
Location	Station/MP		REMARKS	Modified Epoxy Pavement Marking (LF)					Preformed Thermoplastic Pavement Marking (SF)
	Begin	End		Lane	Edge	Center			Merge Symbol
				White Broken	White Solid	Solid Double Yellow	Solid Broken Left Yellow	Broken Yellow	
SH 40	445+50	453+00							
	453+00	510+00		5280	11400		5700		116
	510+00	525+90			3180	1590			
TOTAL (LF)				5280	16080	1590	5700	750	
TOTAL (SF)				660	8040	1060	2375	63	116
TOTAL (GAL)				8	92	12	27	1	

Installation of Delineators (Wild Horse)					
Station Begin	Station End	Type I	Type II	Type III	Comments
453+00	518+40	11			
475+88	475+88			1	
476+32	476+32			1	
510+00	518+40		10		
Total		11	10	2	

Tabulation of Pavement Markings (Rest Area Location)										
Location	Station/MP		REMARKS	Modified Epoxy Pavement Marking (LF)					Preformed Thermoplastic Pavement Marking (SF)	
	Begin	End		Lane	Edge	Center			Merge Symbol	Stopline
				White Broken	White Solid	Solid Double Yellow	Solid Broken Left Yellow	Broken Yellow		
SH 40	643+50	651+00								
	651+00	680+60	Station breaks represent yellow marking transitions. White markings continue through the breaks.	2720	5920		2960			
	682+40	692+00		1070	2354	960				92
	693+10	714+25		1275	4230	2115			116	
TOTAL (LF)				5065	14004	3075	2960	750		
TOTAL (SF)				633	7002	2050	1233	63	116	92
TOTAL (GAL)				7	80	23	14	1		

Installation of Delineators (Rest Area)					
Station Begin	Station End	Type I	Type II	Type III	Comments
651+00	714+25	20			
658+12	658+12			1	
668+12	668+12			1	
705+85	714+25		10		
Total		20	10	2	

NOTES: FOR DETAILS OF PAVEMENT MARKING LINES AND LINE PLACEMENT, SEE STANDARD S-627-1

Print Date: 8/18/2020	0000
File Name: 22975_DES_Permanent Striping and Delineators	
Horiz. Scale: 1:1      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

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As Constructed	PERMANENT STRIPING AND DELINEATOR TABULATION			Project No./Code
No Revisions:	Designer: MJS    Structure Numbers			NHPP R400-370
Revised:	Detailer: MJS			22975
Void:	Sheet Subset:		Subset Sheets:	Sheet Number <b>65</b>