



MEMORANDUM

TO: Nick Senn
FROM: Mike Fowler
DATE: December 21, 2021
RE: **27th Street Underpass – Plan Revisions under Advertisement**

The plans listed below are hereby revised under advertisement due to the elimination of retaining walls 1 and 3 and some minor quantity changes. The boulder walls have been eliminated from the project and the slopes in these areas regraded. The revised plan sheets are attached and a revised Bid Schedule has been provided via email.

Sheet No.	Sheet Title	Sheet No.	Sheet Title
1	COVER SHEET	119	OVERALL WALL SITE PLAN
6	TYPICAL SECTIONS (1)	120	WALL GEOMETRY PLAN (1)
9	FENCE AND RAILING DETAILS	123	WALL GEOMETRY PLAN (4)
11	DETAILS (2)	124	WALL 1 PLAN & ELEVATION
16	SUMMARY OF APPROX. QUANTITIES (1)	125	WALL 2 PLAN & ELEVATION
17	SUMMARY OF APPROX. QUANTITIES (2)	126	WALL 3 PLAN & ELEVATION
18	SUMMARY OF APPROX. QUANTITIES (3)	127	WALL 4 PLAN & ELEVATION
19	SUMMARY OF APPROX. QUANTITIES (4)	134	LWC 1 PLAN & ELEVATION
25	TABULATION OF EARTHWORK AND SURFACING	140	WALL DETAILS (2)
27	TABULATION OF UTILITIES	141	WALL DETAILS (4)
28	TABULATION OF GUARDRAIL AND FENCING	142	WALL SITE DETAILS (1)
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36	SITE IMPROVEMENTS PLAN	193	STORMWATER MANAGEMENT PLAN (2)
44	UTILITY PLAN INDEX	196	STORMWATER MANAGEMENT PLAN (5)
49	27TH STREET (WEST) UTILITY PLAN	197	EROSION CONTROL PLAN (1)
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64	RIO GRANDE TRAIL PLAN & PROFILE (1)	202	SH82 – SIGNING & STRIPING (1)
66	N. 27TH ST SIDEWALK PLAN & PROFILE	203	SH82 – SIGNING & STRIPING (2)
72	ROADWAY PLAN (1)	205	27 TH ST (WEST) - SIGNING & STRIPING
74	PAVING PLAN (1)	207	RGT – SIGNING & STRIPING (1)
78	PAVING PLAN (5)	300	PLANTING KEY PLAN
83	TRAIL INTERSECTION DETAILS	303	PLANTING ENLARGEMENT 2
97	GENERAL LAYOUT – 27TH ST UNDERPASS	306	PLANTING SCHEDULE AND NOTES
101	ENGINEERING GEOLOGY – 27TH ST UNDERPASS	311	IRRIGATION PLAN
117	EXCAVATION AND BACKFILL	400	RGT CROSS SECTIONS (1)
118	WALL SUMMARY OF QUANTITIES	401	RGT CROSS SECTIONS (2)

Attachments:
Plan Sheets as listed in table
Bid Schedule spreadsheet via separate email

I:\2020\2020-544-GWS27thPedUnderpass\001-Design\K-Bidding\Addenda\21-038 27th Street Underpasses Plan Revision (1).docx

PoDI / NHS

FHWA PROJECT OF DIVISION INTEREST (PoDI)? NO YES

NATIONAL HIGHWAY SYSTEM? NO YES

(R-1)

Related Projects:

P. E. UNDER PROJECT: MTF M535-007 / 008
Project Number: 23687 / 23975
Project Code:

R.O.W. Projects:

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

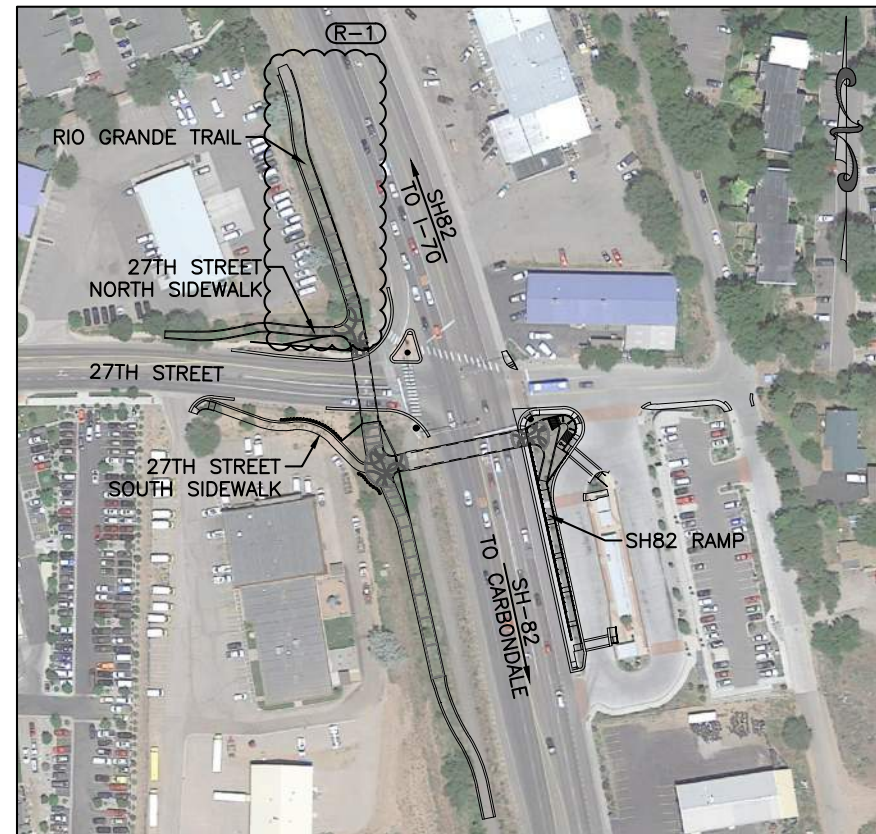
ROARING FORK TRANSPORTATION AUTHORITY

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. MTF M535-007 / 008 27TH ST AND SH82 PEDESTRIAN UNDERPASS CONSTRUCTION PROJECT CODE NO. 23687 / 23975

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	STANDARD PLANS LIST SHEET
3-5	GENERAL NOTES
6-7	TYPICAL SECTIONS
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16-23	SUMMARY OF APPROXIMATE QUANTITIES
24-29	TABULATIONS
30-34	SURVEY CONTROL DIAGRAM
35-36	OVERALL SITE PLAN
37-43	SUBSURFACE UTILITY ENGINEERING PLANS
44-50	UTILITY PLANS
51	SANITARY SEWER RELOCATION
52	WATER SERVICE RELOCATION
53-54	WATERLINE RELOCATIONS
55-60	REMOVAL PLANS
61-63	GEOMETRY PLANS
64-71	TRAIL PLAN & PROFILE SHEETS
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87-93	STORM SEWER PLAN & PROFILE SHEETS
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157	UTILITY ROOM DETAILS
158-161	ELECTRICAL PLANS
162-173	MECHANICAL PLANS
174-181	PLUMBING PLANS
192-196	STORM WATER MANAGEMENT PLAN
197-199	EROSION CONTROL PLAN
200-208	SIGNING & STRIPING PLAN
209-216	TRAFFIC SIGNAL PLANS
217-243	CONSTRUCTION TRAFFIC CONTROL & PHASING PLANS
300-308	LANDSCAPE PLANS
309-316	IRRIGATION PLANS
400-407	CROSS SECTIONS

TABULATION OF LENGTH & DESIGN DATA

STATION	FEET	
	TRAIL	UNDERPASS STRUCTURE
RIO GRANDE TRAIL STA 1000+28.53 – STA 1008+45.14	816.61 FT	79.25 FT
SH82 UNDERPASS/RAMP STA 4000+20.00 – STA 4004+20.66	400.66 FT	140.70 FT
27TH STREET NORTH SIDEWALK STA 2000+05.02 – STA 2001+99.21	194.19 FT	
27TH STREET SOUTH SIDEWALK STA 3000+11.66 – STA 3002+05.01	193.35 FT	
TOTAL	1604.81 FT	219.95 FT
SUMMARY OF PROJECT LENGTH	FEET	
PATHWAY (NET LENGTH)	1604.81 FT	219.95 FT



PROJECT LOCATION MAP

Scale: 1" = 200'
Section 16 & 21, Township 6 South, Range 89 West, Sixth Principal Meridian

BID PLANS
NOVEMBER 22, 2021



UNCC 1-800-922-1987

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Last Modification Date: 12/20/21		1	12/22/21	ELIMINATED WALLS 1&3, NO PODI	AMC	Revised:	Resident Engineer:	PROJECT STARTED: / / ACCEPTED: / /		Sheet Number 1	
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SGM Project No.: 2020-544.001	Quality Control: MDF										

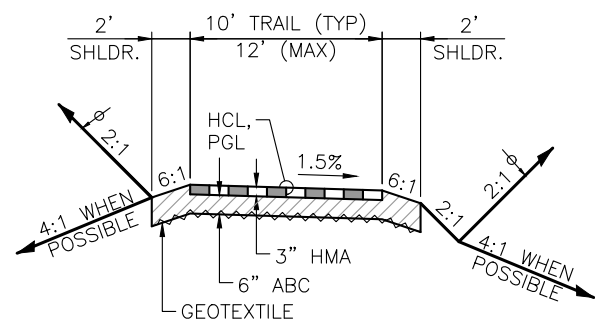


As Constructed
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Revised:
Void:

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Resident Engineer:
Project Engineer:
PROJECT STARTED: / / ACCEPTED: / /
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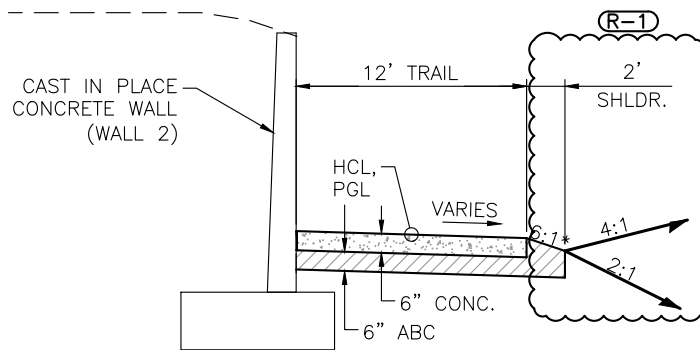
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MTF M535-007 / 008
23687 / 23975
Sheet Number 1

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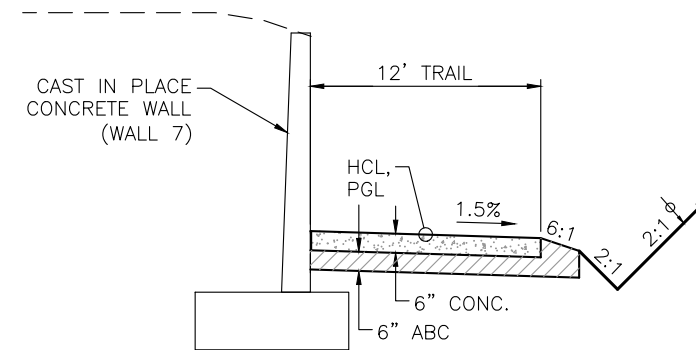


RIO GRANDE TRAIL TYPICAL SECTION
 STA.1000+28.55 TO STA.1000+35.93 (NO DITCH, RIGHT)
 STA.1006+88.91 TO STA.1008+45.14

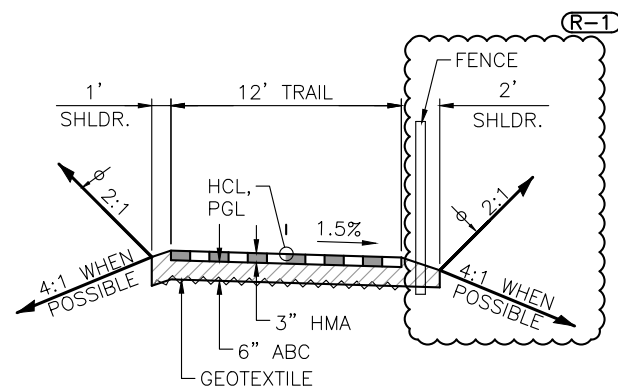
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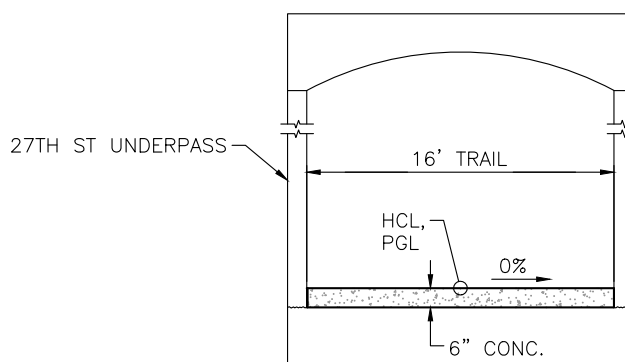
RIO GRANDE TRAIL UPHILL WALL SECTION
 STA.1001+61.10 TO STA.1002+48.20
 STA.1002+48.20 TO STA.1002+94.36 (NO 6:1)



RIO GRANDE TRAIL UPHILL WALL SECTION
 STA.1005+29.37 TO STA.1006+88.49



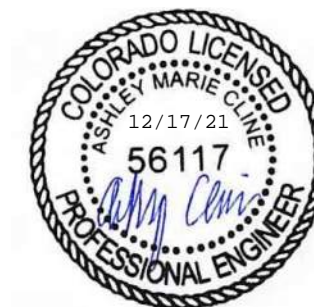
RIO GRANDE TRAIL FENCE SECTION
 STA.1000+35.93 TO STA. 1001+61.10



RIO GRANDE TRAIL UNDERPASS SECTION
 STA.1003+34.78 TO STA.1004+14.03

NOTE:

SEE TRAIL PLAN AND PROFILE SHEETS FOR TRAIL SEGMENTS NOT DEPICTED BY TYPICAL SECTIONS



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Last Modification Date:	06/30/21
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Autocad Ver. 2020	Scale: As Shown
SGM Project No.:	2020-544.001
Quality Control:	MDF

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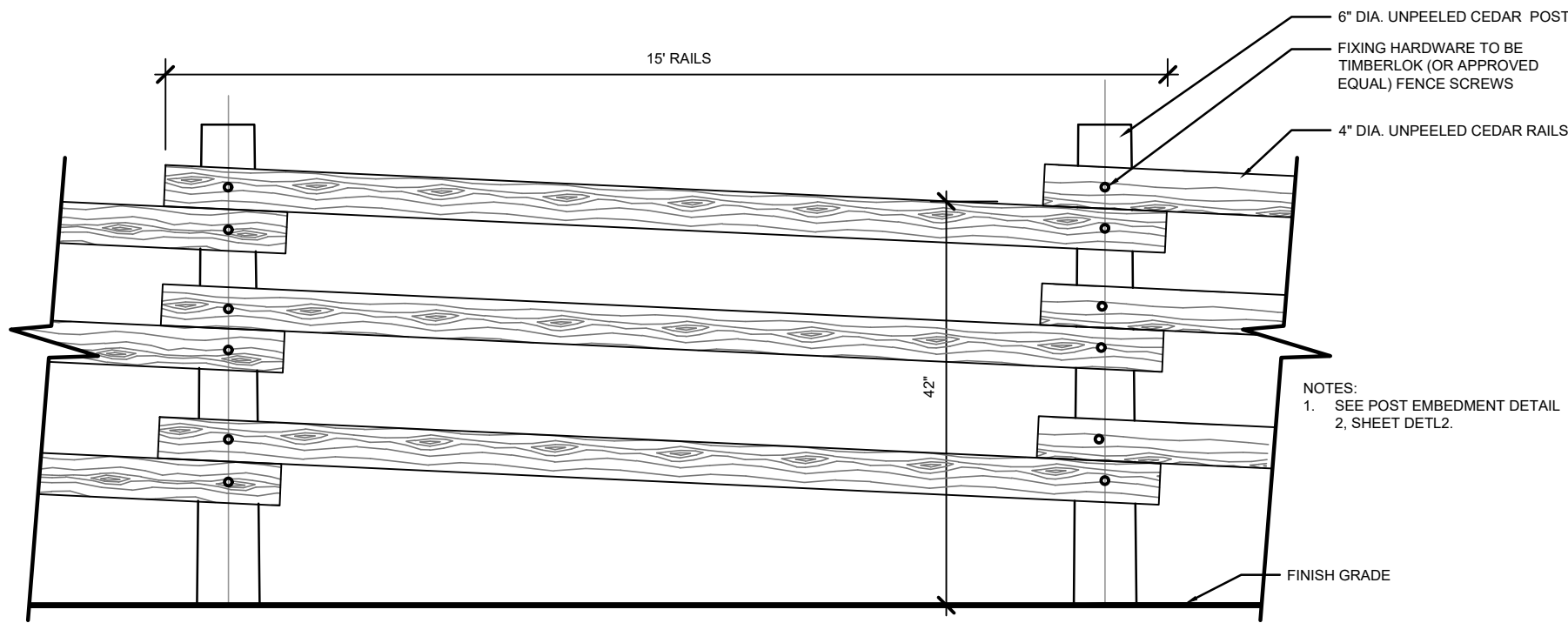
118 West Sixth Street, Suite 200
 Glenwood Springs, CO 81601
 970.945.1004 www.sgm-inc.com

As Constructed	
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Revised:	
Void:	

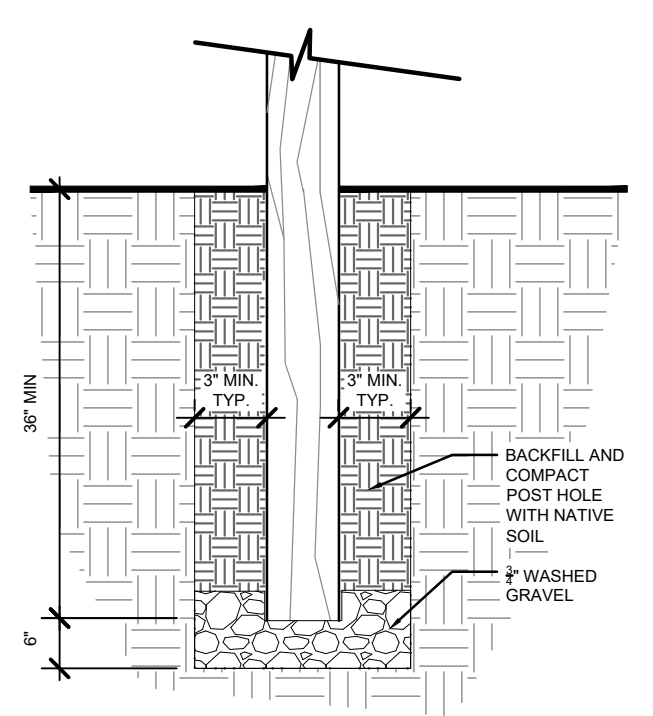
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Engineer:	MDF	Structure Numbers	
Drawn By:	AMC	Subset Sheets:	1 of 2
Sheet Subset:	TYP		

Project No./Code	
MTF M535-007 / 008	
23687 / 23975	
Sheet Number	6

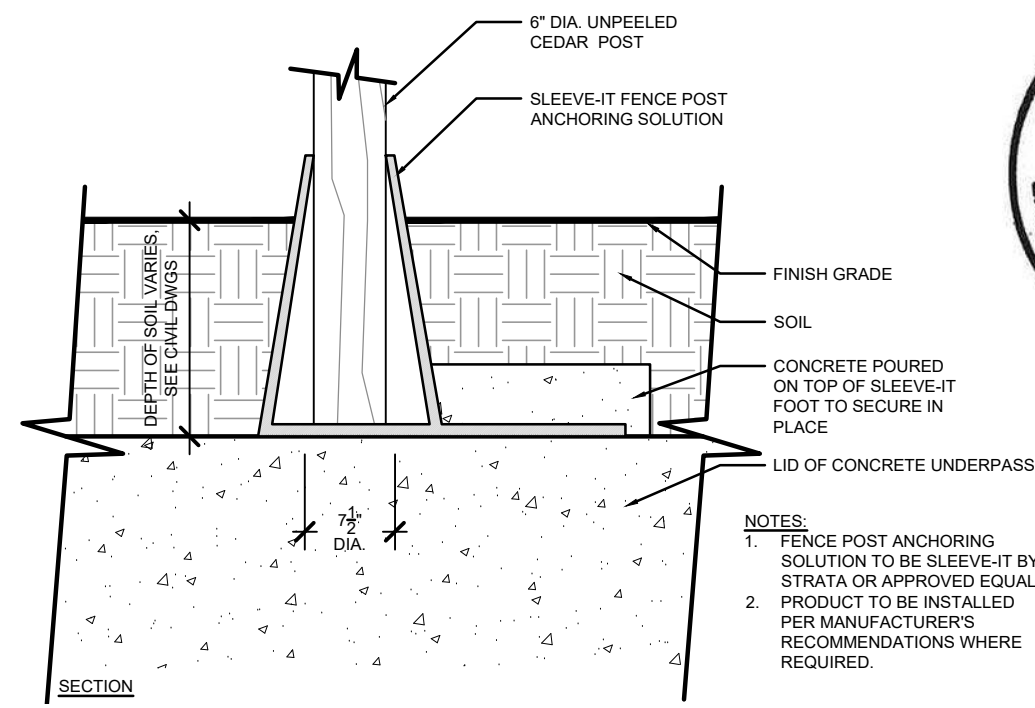
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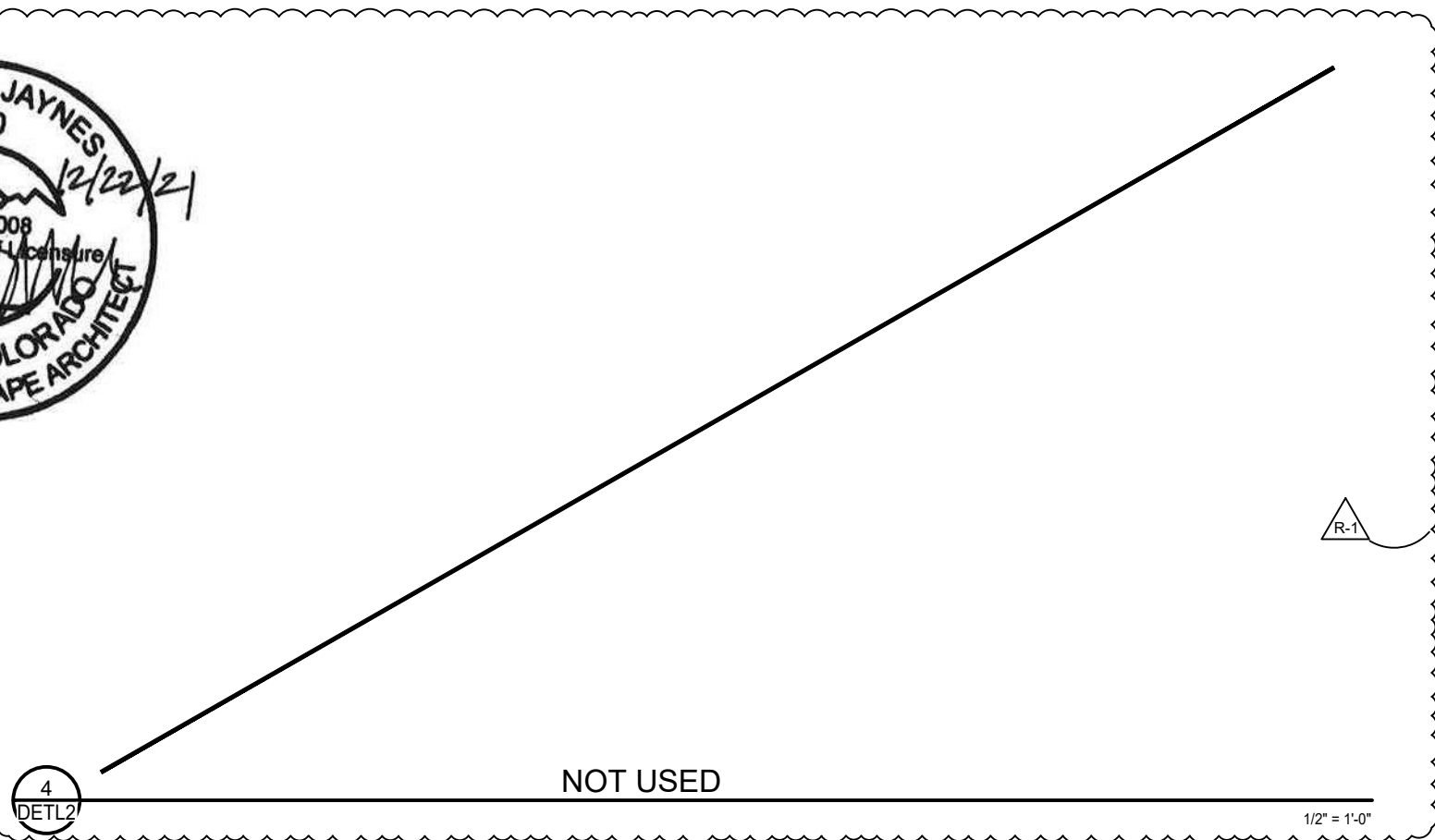
1 DETL2 FENCE WOOD RAILING 3/4" = 1'-0"



2 DETL2 POST EMBEDMENT (TYPICAL) 3/4" = 1'-0"



3 DETL2 POST EMBEDMENT ON UNDERPASS STRUCTURE 3/4" = 1'-0"



4 DETL2 NOT USED 1/2" = 1'-0"

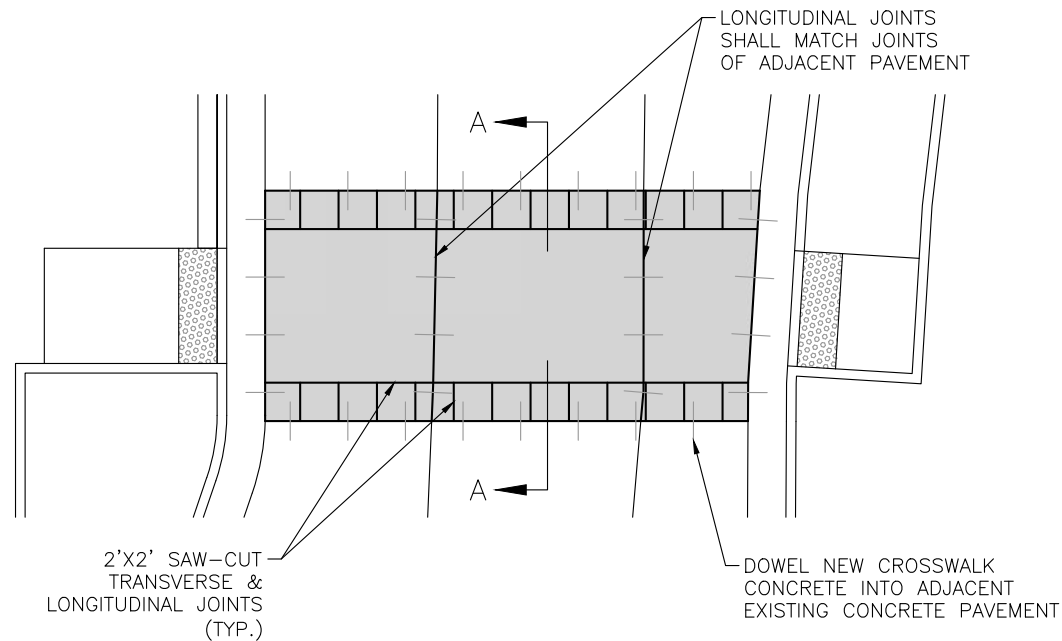
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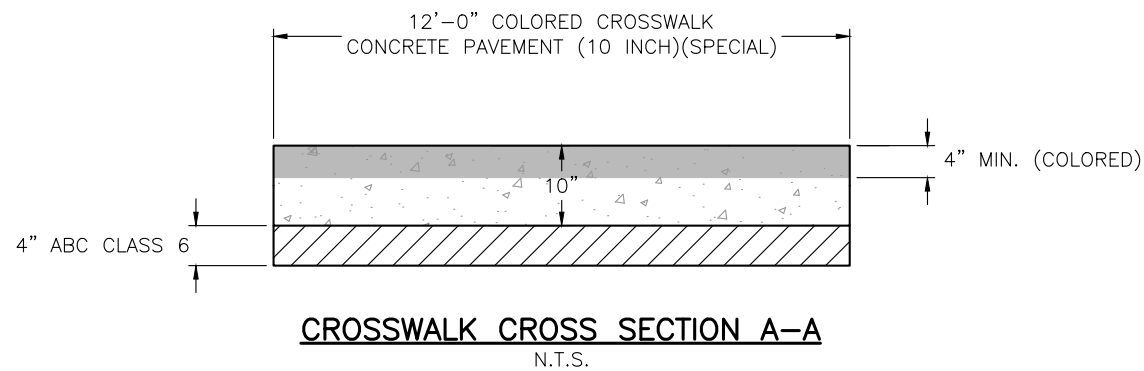
DHM DESIGN

NOTES:

1. DECORATIVE CONCRETE CROSSWALK WILL BE PAID FOR AS CONCRETE PAVEMENT (10 INCH) (SPECIAL) AS MEASURED IN SQYD.
2. CONCRETE SHALL BE CLASS P UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. CONTRACTOR HAS THE OPTION TO PLACE 4 INCHES OF CLASS P CONCRETE (BRICK RED) WITH BROOM FINISH IN THE TOP 4 INCHES OF FINISHED CONCRETE. COLD JOINTS ARE NOT ACCEPTABLE.
4. CROSSWALK SHALL BE BROOM FINISHED TRANSVERSE TO THE DIRECTION OF THE CROSSWALK.

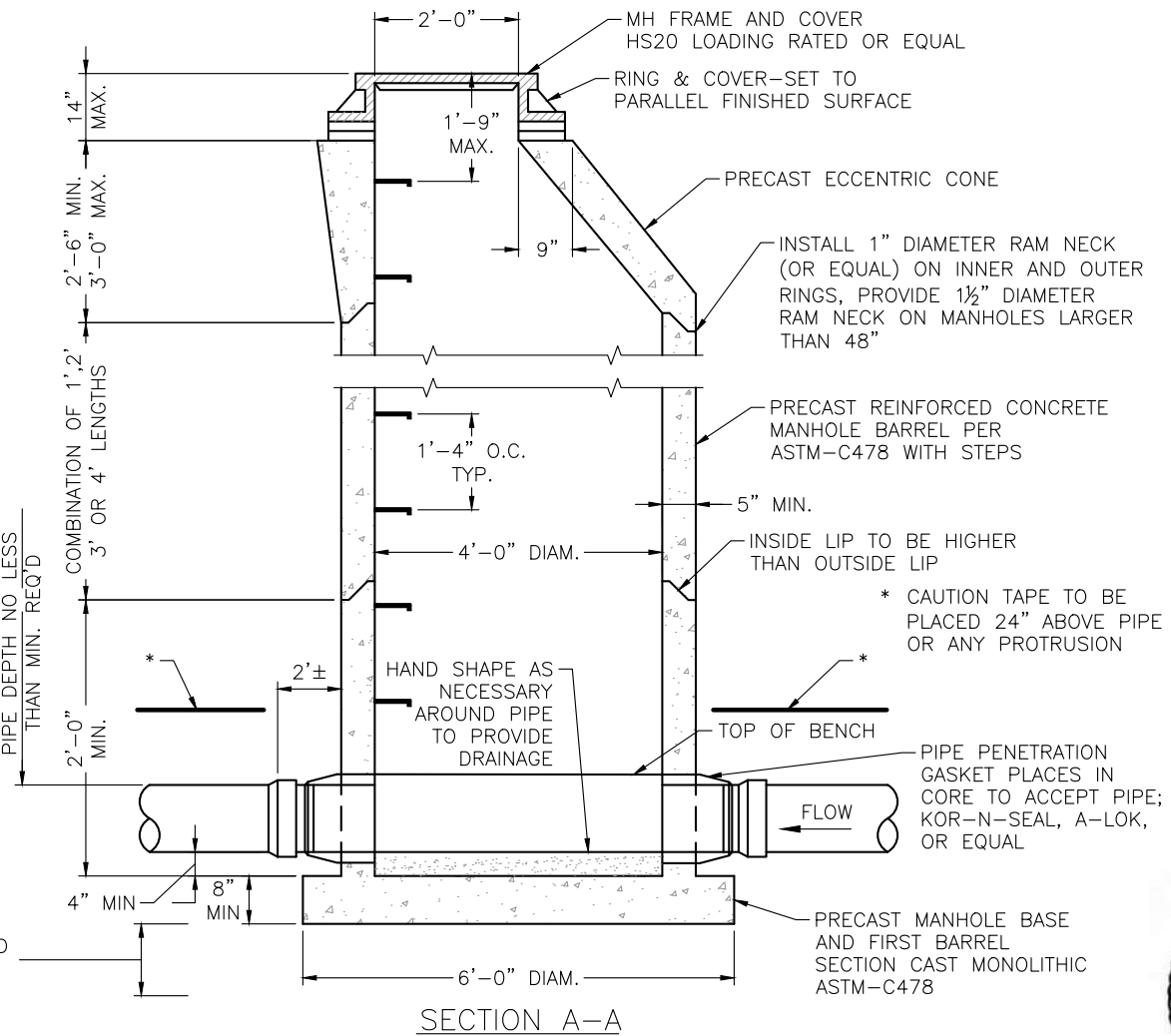
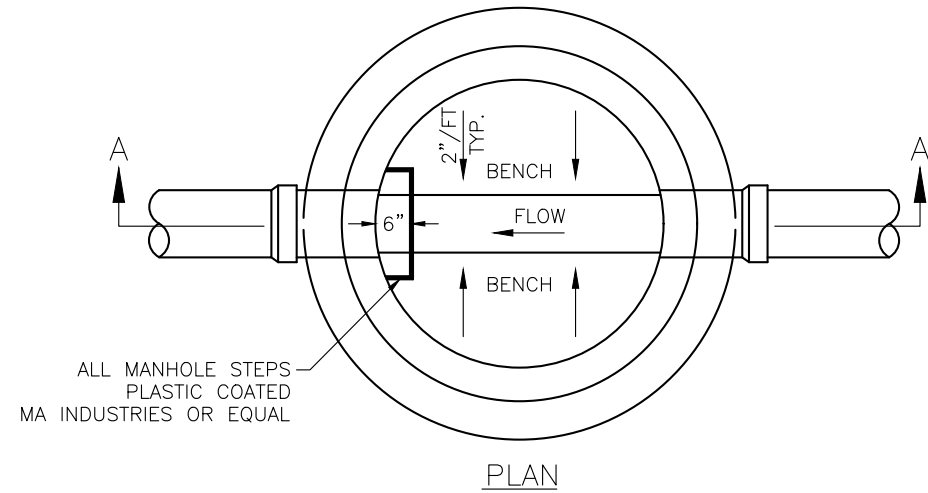


BRT STATION CROSSWALK PLAN VIEW
SCALE: 1"=10'



NOTES:

1. CONCRETE SHALL COMPLY WITH CDOT SPECIFICATIONS.
2. MANHOLE TROUGH SHALL HAVE A MINIMUM OF 2" DROP FROM ENTRANCE THROUGH EXIT.
3. FLOW CHANNEL TO BE SHAPED AS TO NOT ALLOW STANDING WATER. (R-1)
4. USE 5' I.D. WHEN PIPE SIZE IS 18" OR LARGER.
5. EXTERIOR OF MANHOLE SHALL BE COATED WITH BITUMINOUS COATING PRIOR TO DELIVERY TO JOBSITE.
6. ORIENTATION OF MANHOLE STEPS FOR INFORMATION ONLY. FINAL ORIENTATION TO BE PROVIDED IN SHOP DRAWINGS.



SANITARY SEWER MANHOLE
SCALE: 3/8" = 1'

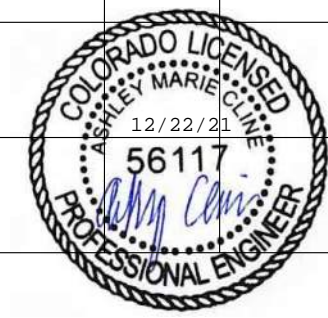


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Autocad Ver. 2020 Scale: As Shown													
SGM Project No.: 2020-544.001 Quality Control: MDF													

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY/TRAIL		SH82 UNDERPASS		27TH ST UNDERPASS		RETAINING WALLS		PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	
			201-00000	Clearing And Grubbing	LS	1									1	
			202-00008	Tree Trimming	HOUR	8									8	
			202-00010	Removal of Tree	EACH	7									7	
			202-00019	Removal of Inlet	EACH	3									3	
			202-00021	Removal of Manhole	EACH	4									4	
			202-00030	Removal of Water Service	EACH	1									1	
			202-00032	Removal of Valve	EACH	3									3	
			202-00035	Removal of Pipe	LF	652									652	
			202-00090	Removal of Delineator	EACH	4									4	
			202-00190	Removal of Concrete Median Cover Material	SY	28									28	
			202-00200	Removal of Sidewalk	SY	505									505	
			202-00203	Removal of Curb and Gutter	LF	1088									1088	
			202-00206	Removal of Concrete Curb Ramp	SY	184									184	
			202-00210	Removal of Concrete Pavement	SY	793									793	
			202-00220	Removal of Asphalt Mat	SY	2708									2708	
			202-00240	Removal of Asphalt Mat (Planing)	SY	269									269	
			202-00250	Removal of Pavement Marking	SF	13000									13000	
			202-00420	Removal of Pedestrian Rail	LF	35									35	
			202-00600	Removal of Railroad Appurtenances	LS	1									1	
			202-00810	Removal of Ground Sign	EACH	9									9	
			202-00815	Removal of Sign (Special)	EACH	1									1	
			202-00827	Removal of Pull Box	EACH	7									7	
			202-00831	Removal of Traffic Signal Head	EACH	22									22	
			202-00832	Removal of Sign Panel (Special)	EACH	1									1	
			202-00840	Removal of Traffic Signal Pole	EACH	3									3	
			202-00855	Removal of Traffic Signal Controller Cabinet	EACH	1									1	
			202-00860	Removal of Pedestrian Push Button	EACH	6									6	
			202-01000	Removal of Fence	LF	68									68	
			202-01130	Removal of Guardrail Type 3	LF	390									390	
			202-01300	Removal of End Anchorage	EACH	2									2	
			202-04000	Plug Structure	EACH	2									2	
			202-04001	Plug Culvert	EACH	6									6	
			202-05006	Sawing Concrete (6 Inch)	LF	57									57	
			202-05010	Sawing Concrete (10 Inch)	LF	644									644	
			203-00010	Unclassified Excavation (Complete In Place)	CY	1322									1322	

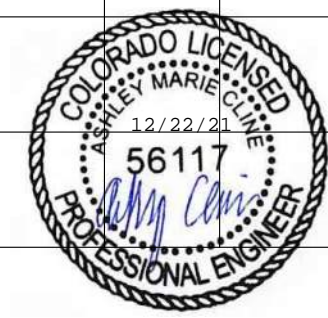


(R-1) 1322

Computer File Information Print Date: 12/21/21 Last Modification Date: 12/21/21 Drawing File Name: Hwy82PUP-SAQ Autocad Ver. 2020 Scale: As Shown SGM Project No.: 2020-544.001 Quality Control: MDF		Sheet Revisions <table border="1"> <thead> <tr> <th>Rev.</th> <th>Date</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12/22/21</td> <td>ELIMINATED WALLS 1&3</td> <td>MDF</td> </tr> </tbody> </table>		Rev.	Date	Comments	Init.	1	12/22/21	ELIMINATED WALLS 1&3	MDF					As Constructed No Revisions: Revised: Void:		27TH ST AND SH82 PEDESTRIAN UNDERPASS SUMMARY OF APPROXIMATE QUANTITIES (1) Engineer: MDF Drawn By: AMC Sheet Subset: SAQ			Structure Numbers Subset Sheets: 1 of 8		Project No./Code MTF M535-007 / 008 23687 / 23975 Sheet Number 16	
Rev.	Date	Comments	Init.																					
1	12/22/21	ELIMINATED WALLS 1&3	MDF																					

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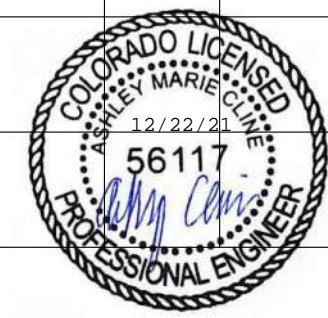
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BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	
			203-01510	Backhoe	HOUR	40									40	
			203-01565	Hydraulic Excavator	HOUR	40									40	
			203-01582	Truck (Dump)	HOUR	40									40	
			203-01594	Combination Loader	HOUR	40									40	
			203-01597	Potholing	HOUR	40									40	
			203-02330	Laborer	HOUR	80									80	
			206-00000	Structure Excavation	CY			4170		1700		12404			18274	
			206-00100	Structure Backfill (Class 1)	CY			1630		620		6384			8634	
			206-00360	Mechanical Reinforcement of Soil	CY			1630		620					2250	
			206-01781	Shoring (Area 1)	L S			1							1	
			206-01782	Shoring (Area 2)	L S					1					1	
			206-01783	Shoring (Area 3)	L S							1			1	
			207-01110	Planter Soil Mix	CY	118									118	
			208-00002	Erosion Log Type 1 (12 Inch)	LF	520	(R-1)							(R-1)	520	
			208-00035	Aggregate Bag	LF	100									100	
			208-00046	Pre-Fabricated Concrete Washout Structure (Type 1)	EACH	3									3	
			208-00051	Storm Drain Inlet Protection (Type I)	EACH	3									3	
			208-00052	Storm Drain Inlet Protection (Type II)	EACH	4									4	
			208-00056	Storm Drain Inlet Protection (Type III)	EACH	1									1	
			208-00075	Pre-Fabricated Vehicle Tracking Pad	EACH	2									2	
			208-00207	Erosion Control Management	DAY	180									180	
			210-00050	Reset Fire Hydrant	EACH	2	(R-2)							(R-2)	2	
			210-00090	Reset Delineator	EACH	2									2	
			210-00760	Reset Luminaire	EACH	3									3	
			210-00810	Reset Ground Sign	EACH	6									6	
			210-00842	Reset Traffic Signal Mast Arm	EACH	1									1	
			210-00862	Reset Wiring	L S	1									1	
			210-00866	Reset Fire Preemption Unit And Timer	EACH	1									1	
			210-00882	Reset Traffic Signal Vehicle Detector	EACH	2									2	
			212-00701	Compost (Mechanically Applied)	CY	166	(R-1)							(R-1)	166	
			212-00708	Seeding (Native) Broadcast	ACRE	1.23	(R-1)							(R-1)	1.23	
			213-00003	Mulching (Weed Free)	ACRE	1.23	(R-1)							(R-1)	1.23	
			213-00005	Mulching (Decorative)	CF	395									395	
			213-00008	Mulching (Wood Chip)	CF	790									790	
			213-00061	Mulch Tackifier	LB	246	(R-1)							(R-1)	246	



Computer File Information Print Date: 12/21/21 Last Modification Date: 12/21/21 Drawing File Name: Hwy82PUP-SAQ Autocad Ver. 2020 Scale: As Shown SGM Project No.: 2020-544.001 Quality Control: MDF		Sheet Revisions <table border="1"> <thead> <tr> <th>Rev.</th> <th>Date</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12/22/21</td> <td>ELIMINATED WALLS 1&3</td> <td>MDF</td> </tr> <tr> <td>2</td> <td>12/22/21</td> <td>REVISED QUANTITY</td> <td>MDF</td> </tr> </tbody> </table>		Rev.	Date	Comments	Init.	1	12/22/21	ELIMINATED WALLS 1&3	MDF	2	12/22/21	REVISED QUANTITY	MDF					As Constructed No Revisions: Revised: Void:		27TH ST AND SH82 PEDESTRIAN UNDERPASS SUMMARY OF APPROXIMATE QUANTITIES (2) Engineer: MDF Drawn By: AMC Sheet Subset: SAQ			Structure Numbers Subset Sheets: 2 of 8		Project No./Code MTF M535-007 / 008 23687 / 23975 Sheet Number 17	
Rev.	Date	Comments	Init.																									
1	12/22/21	ELIMINATED WALLS 1&3	MDF																									
2	12/22/21	REVISED QUANTITY	MDF																									

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY/TRAIL		SH82 UNDERPASS		27TH ST UNDERPASS		RETAINING WALLS		PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	
			213-00440	Metal Landscape Border (1/8X4 Inch)	LF	299									299	
			214-00220	Deciduous Tree (2 Inch Caliper)	EACH	8									8	
			214-00310	Deciduous Shrub (1 Gallon Container)	EACH	476									476	
			214-00350	Deciduous Shrub (5 Gallon Container)	EACH	385									385	
			214-00805	Ground Cover Vines (2.25 Inch Pots)	EACH	573									573	
			216-00201	Soil Retention Blanket (Straw-Coconut) (Biodegradable Class 1)	SY	1368									1368	
			240-00000	Wildlife Biologist	HOUR	20									20	
			240-00010	Removal of Nests	HOUR	8									8	
			304-02000	Aggregate Base Course (Class 2)	TON			780		60		3324			4164	
			304-06000	Aggregate Base Course (Class 6)	TON	1918		430		260					2608	
			403-34751	Hot Mix Asphalt (Grading SX) (75) (PG 64-28)	TON	862									862	
			411-10255	Emulsified Asphalt (Slow-Setting)	GAL	261									261	
			412-00600	Concrete Pavement (6 Inch)	SY	39									39	
			412-01000	Concrete Pavement (10 Inch)	SY	566									566	
			412-01001	Concrete Pavement (10 Inch) (Special)	SY	200									200	
			420-00133	Geotextile (Separator) (Class 2)	SY			376		212		1250			1838	
			420-00200	Geotextile (Weed Barrier)	SY	935									935	
			503-00036	Drilled Shaft (36 Inch)	LF	34									34	
			503-00054	Drilled Shaft (54 Inch)	LF	21									21	
			504-08050	Stone Landscape Wall	SF							343			343	
			508-00520	Insulation Material (2 Inch)	SF	4712									4712	
			514-00018	Pedestrian Railing (18 Inch)	LF							209			209	
			514-00042	Pedestrian Railing (42 Inch)	LF					35		115			150	
			514-00100	Hand Rail	LF	570									570	
			515-00120	Waterproofing (Membrane)	SY			384		216		12			612	
			517-00000	Waterproofing (Asphalt)	SY			311		171		149			631	
			518-00102	Waterstop	LF			324		201		206			731	
			601-03000	Concrete Class D	CY							8.2			8.2	
			601-03040	Concrete Class D (Bridge)	CY			236.2		131.1					367.3	
			601-03041	Concrete Class D (Bridge) (Special)	CY			2.3		2.7					5	
			601-03050	Concrete Class D (Wall)	CY							723.7			723.7	
			601-03055	Concrete Class D (Wall) (Special)	CY							493.8			493.8	
			601-40301	Structural Concrete Coating	SF			4600		2590					7190	



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SGM Project No.:	2020-544.001
Quality Control:	MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
1	12/22/21	ELIMINATED WALLS 1&3	MDF



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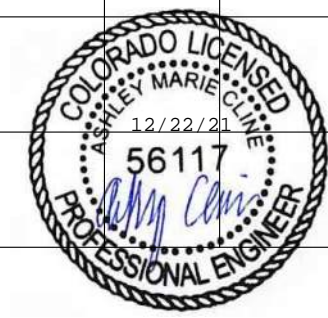
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Revised:	
Void:	

27TH ST AND SH82 PEDESTRIAN UNDERPASS SUMMARY OF APPROXIMATE QUANTITIES (3)			
Engineer:	MDF	Structure Numbers	
Drawn By:	AMC	Subset Sheets:	3 of 8
Sheet Subset:	SAQ		

Project No./Code	
MTF M535-007 / 008	
23687 / 23975	
Sheet Number	18

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY/TRAIL		SH82 UNDERPASS		27TH ST UNDERPASS		RETAINING WALLS		PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
			601-40302	Structural Concrete Coating (Anti-Graffiti)	SF			4840		2820		12666			20326
			601-50020	Porcelain Wall Tile	SF							1432			1432
			602-00000	Reinforcing Steel	LB			41500		23600		202050			267150
			602-00020	Reinforcing Steel (Epoxy Coated)	LB			2000		1700		700			4400
			603-30024	24 Inch Steel End Section	EACH	1									1
			603-33024	24 Inch Pipe Safety End Treatment	EACH	1									1
			603-50006	6 Inch Plastic Pipe	LF	21									21
			603-50012	12 Inch Plastic Pipe	LF	116									116
			603-50018	18 Inch Plastic Pipe	LF	375									375
			603-50024	24 Inch Plastic Pipe	LF	77									77
			603-50030	30 Inch Plastic Pipe	LF	216									216
			603-50200	Tee (Plastic Pipe)(12 Inch)	EACH	1									1
			603-50201	90 Deg Elbow (Plastic Pipe)(12 Inch)	EACH	2									2
			604-00315	Inlet Type C (15 Foot)	EACH	1									1
			604-19115	Inlet Type R L 5 (15 Foot)	EACH	2									2
			604-19712	Inlet Special (Trench Drain) (12 Inch Width)	LF	48									48
			604-25011	Vane Grate Inlet Special (10 Foot)	EACH	2									2
			604-25021	Vane Grate Inlet Special (20 Foot)	EACH	1									1
			604-30005	Manhole Slab Base (5 Foot)	EACH	1									1
			604-30010	Manhole Slab Base (10 Foot)	EACH	4									4
			604-30015	Manhole Slab Base (15 Foot)	EACH	5									5
			604-83103	3 Inch Plastic Pipe Sewer (Polyvinyl Chloride)	LF	15									15
			604-83108	8 Inch Plastic Pipe Sewer (Polyvinyl Chloride)	LF	327									327
			605-83002	Geocomposite Drain With Pipe	SY			384		208		1093			1685
			606-00301	Guardrail Type 3 (6-3 Post Spacing)	LF	775									775
			606-01402	Transition Type BR10B-GR3	EACH			1				1			2
			606-02003	End Anchorage (Nonflared)	EACH	3									3
			606-02005	End Anchorage (Flared)	EACH	1									1
			606-11035	Bridge Rail Type 10 MASH	LF			11				201			212
			607-11460	Fence Wood Railing	LF	985									985
			607-11525	Fence (Plastic)	LF	3150									3150
			607-32100	Fence Steel Snow	LF			18				178			196
			608-00000	Concrete Sidewalk	SY	501									501
			608-00006	Concrete Sidewalk (6 Inch)	SY	234		199		126					559
			608-00010	Concrete Curb Ramp	SY	309									309



Computer File Information		Sheet Revisions				 118 West Sixth Street, Suite 200 Glenwood Springs, CO 81601 970.945.1004 www.sgm-inc.com	As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS SUMMARY OF APPROXIMATE QUANTITIES (4)			Project No./Code	
Print Date: 12/21/21	Last Modification Date: 12/21/21	Rev. 1	Date 12/22/21	Comments ELIMINATED WALLS 1&3			Init. MDF	No Revisions:	Engineer: MDF	Structure Numbers	23687 / 23975		MTF M535-007 / 008
Drawing File Name: Hwy82PUP-SAQ	Autocad Ver. 2020 Scale: As Shown	Rev. 2	Date 12/22/21	Comments REVISED QUANTITY	Init. MDF	Revised:	Drawn By: AMC	Sheet Subset: SAQ	Subset Sheets: 4 of 8	Sheet Number 19			
SGM Project No.: 2020-544.001	Quality Control: MDF					Void:							

TABULATION OF EARTHWORK AND SURFACING

LOCATION	SIDE	304-06000	403-34751	411-10255	412-00600	412-01000	412-01001	420-00200	REMARKS
		AGGREGATE BASE COURSE (CLASS 6) TON	HOT MIX ASPHALT (GRADING SX) (75) (PG 64-28) TON	EMULSIFIED ASPHALT (SLOW- SETTING) GAL	CONCRETE PAVEMENT (6 INCH) SY	CONCRETE PAVEMENT (10 INCH) SY	CONCRETE PAVEMENT (10 INCH) (SPECIAL) SY	GEOTEXTILE (WEED BARRIER) SY	
BRT STATION									
14+56.91 TO 17+51.94	LT	106				346	172		CONCRETE PAVEMENT (10 INCH) (SPECIAL) = COLORED CONCRETE CROSSWALK
SH82									
13+14.73 TO 15+19.14	-	735	464	112					
27TH STREET									
1+05.02 TO 2+98.90	-	259	298	101	36	192	18		
RIO GRANDE TRAIL									
1+03.55 TO 1+10.93	-	88	29	18				251	
7+79.32 TO 9+20.14	-	86	29	18				245	
SHEET SUBTOTALS		1,274	821	249	37	539	190	496	
5% IRREGULARITIES		64	41	12	2	27	10	25	
PROJECT TOTALS		1338	862	261	39	566	200	521	

R-1

R-1

ITEM	PROJECT TOTALS	
	PLAN	FINAL
UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)(NET)	CU. YD.	CU. YD.
RIO GRANDE TRAIL (STA. 1+03.55 TO STA. 9+20.13)	781	
FOR CUT SLOPE TREATMENT - ASSUME 2% OF ROADWAY UNCL. EX.	16	
27TH STREET - NORTH SIDEWALK (STA. 1+05.00 TO STA. 2+96.25)	152	
FOR CUT SLOPE TREATMENT - ASSUME 2% OF ROADWAY UNCL. EX.	3	
27TH STREET - SOUTH SIDEWALK (STA. 0+23.31 TO STA. 2+13.17)	363	
FOR CUT SLOPE TREATMENT - ASSUME 2% OF ROADWAY UNCL. EX.	7	
TOTAL	1,322	
FOR INFORMATION ONLY		
EMBANKMENT MATERIAL (COMPLETE IN PLACE)(NET)	CU. YD.	CU. YD.
RIO GRANDE TRAIL (STA. 1+03.55 TO STA. 9+20.13)	346	
27TH STREET - NORTH SIDEWALK (STA. 1+05.00 TO STA. 2+96.25)	11	
27TH STREET - SOUTH SIDEWALK (STA. 0+23.31 TO STA. 2+13.17)	4	
TOTAL	361	
COMPACTION (AASHTO T 99)	CU. YD.	CU. YD.
TOTAL EMBANKMENT (NET)	361	
BASES OF CUTS AND FILLS - ASSUME 5% OF TOTAL EMBANKMENT	18	
TOTAL	379	
FOR INFORMATION ONLY		
EARTHWORK QUANTITIES BALANCE		
UNCLASSIFIED EXCAVATION	CU. YD.	CU. YD.
TOTAL	1,322	
EMBANKMENT (NET)	CU. YD.	CU. YD.
TOTAL	361	
EMBANKMENT (NET) X COMPACTION FACTOR (1.10)	CU. YD.	CU. YD.
TOTAL	397	
TOTAL EXCAVATION		
UNCLASSIFIED EXCAVATION	1,322	
STRUCTURE EXCAVATION FROM UNDERPASS	5,870	
STRUCTURE EXCAVATION FROM WALLS	11,891	
TOTAL	19,083	
EXCESS EXCAVATION TO BE PROPERTY OF THE CONTRACTOR		
TOTAL EXCAVATION MINUS FACTORED EMBANKMENT	TOTAL	18,686



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Computer File Information		Sheet Revisions				As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS		Project No./Code	
Print Date: 12/15/21	Last Modification Date: 06/30/21	Rev. 1	Date 12/22/21			Comments ELIMINATED WALLS 1&3	Init. AMC	No Revisions:	Revised:	Void:	TABULATION OF EARTHWORK AND SURFACING
Drawing File Name: Hwy82PUP-Tabulations	Autocad Ver. 2020 Scale: As Shown								Engineer: MDF	Structure Numbers	23687 / 23975
SGM Project No.: 2020-544.001	Quality Control: MDF								Drawn By: AMC	Sheet Subset: TABS	Subset Sheets: 2 of 6
										Sheet Number	25

TABULATION OF WATERLINE

LOCATION	SIDE	619-00002	619-00007	619-06080	619-06100	619-06090	619-06115	619-75064	619-75080	REMARKS
		WATER SERVICE	CONNECT TO EXISTING WATERLINE	8 INCH DUCTILE IRON PIPE	10 INCH DUCTILE IRON PIPE	8 INCH DUCTILE IRON PIPE (FITTINGS)	10 INCH DUCTILE IRON PIPE (FITTINGS)	8 INCH GATE VALVE	10 INCH GATE VALVE	
		EACH	EACH	LF	LF	EACH	EACH	EACH	EACH	
0+00 TO 1+11.80	LT	1								SPEC 02555 PARAGRAPH 3.11.C.4.A
0+00 TO 0+80.00	LT	1								SPEC 02555 PARAGRAPH 3.11.C.4.A
0+00 TO 1+68.19	RT		2		168		8		3	
0+00 TO 0+39.86	RT		1	40		5		1		
PROJECT TOTALS		2	3	40	168	5	8	1	3	

TABULATION OF SANITARY SEWER

LOCATION	ID	MANHOLES - SLAB BASE (EACH)		STRUCTURE ELEVATIONS			PLASTIC SEWER PIPE (POLYVINYL CHLORIDE)		REMARKS
		4' DIAM.		RIM	INVERT	H (FT)	DIAMETER (INCH)		
		10	15				3	8	
		604-30010	604-30015				603-50003	604-83108	
14+64.59	1	1		41.89	31.89	10.00			
L1	PIPE							62	
14+78.06	2		1	45.36	33.16	12.20			
L2	PIPE							32	
15+12.04	3		1	46.27	33.62	12.65			
L3	PIPE							65	
L4	PIPE						15		
15+55.99	4	1		44.34	34.40	9.94			
L5	PIPE							151	
17+08.13	5		1	46.60	36.05	10.55			
L6	PIPE							17	
17+27.33	6		1	46.94	36.36	10.58			
PROJECT TOTALS		2	4				15	327	

(R-1)



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Rev.	Date	Comments	Init.																
1	12/22/21	REVISED QUANTITY	AMC																

TABULATION OF GUARDRAIL

LOCATION	SIDE	202-01130	202-01300	606-00301	606-02003	606-02005	REMARKS
		REMOVAL OF GUARDRAIL TYPE 3	REMOVAL OF END ANCHORAGE	GUARDRAIL TYPE 3 (6-3 POST SPACING)	END ANCHORAGE (NONFLARED)	END ANCHORAGE (FLARED)	
		LF	EACH	LF	EACH	EACH	
SH82							
13+08.81 TO 13+25.86	RT			212.5	2		
14+16.14 TO 19+50.90	RT	390	2	562.5	1	1	
PROJECT TOTALS		390	2	775	3	1	

NOTES:

1. SEE CURRENT M-606-1 FOR PAY LENGTHS AND TYPICAL GUARDRAIL INSTALLATION.
2. GUARDRAIL AND END ANCHORAGES SHALL BE MIDWEST GUARDRAIL SYSTEM (MGS).
3. ALL GUARDRAIL AND END ANCHORAGES SHALL BE GALVANIZED.
4. ALL GUARDRAIL POSTS SHALL BE GALVANIZED STEEL WITH COMPOSITE BLOCKOUTS.

TABULATION OF FENCING

LOCATION	SIDE	607-11460	REMARKS
		FENCE WOOD RAILING	
		LF	
RIO GRANDE TRAIL			
1000+35.93 TO 1002+40.35	RT	204	
11+83.66 TO 13+52.93	RT	167	
14+54.15 TO 17+22.00	RT	264	
27TH STREET			
13+61.63 TO 13+23.59	RT	106	
14+11.40 TO 14+45.65	RT	69	
27TH ST SOUTH SIDEWALK			
3000+23.44 TO 3001+99.48	RT	175	
PROJECT TOTALS		985	

(R-1)

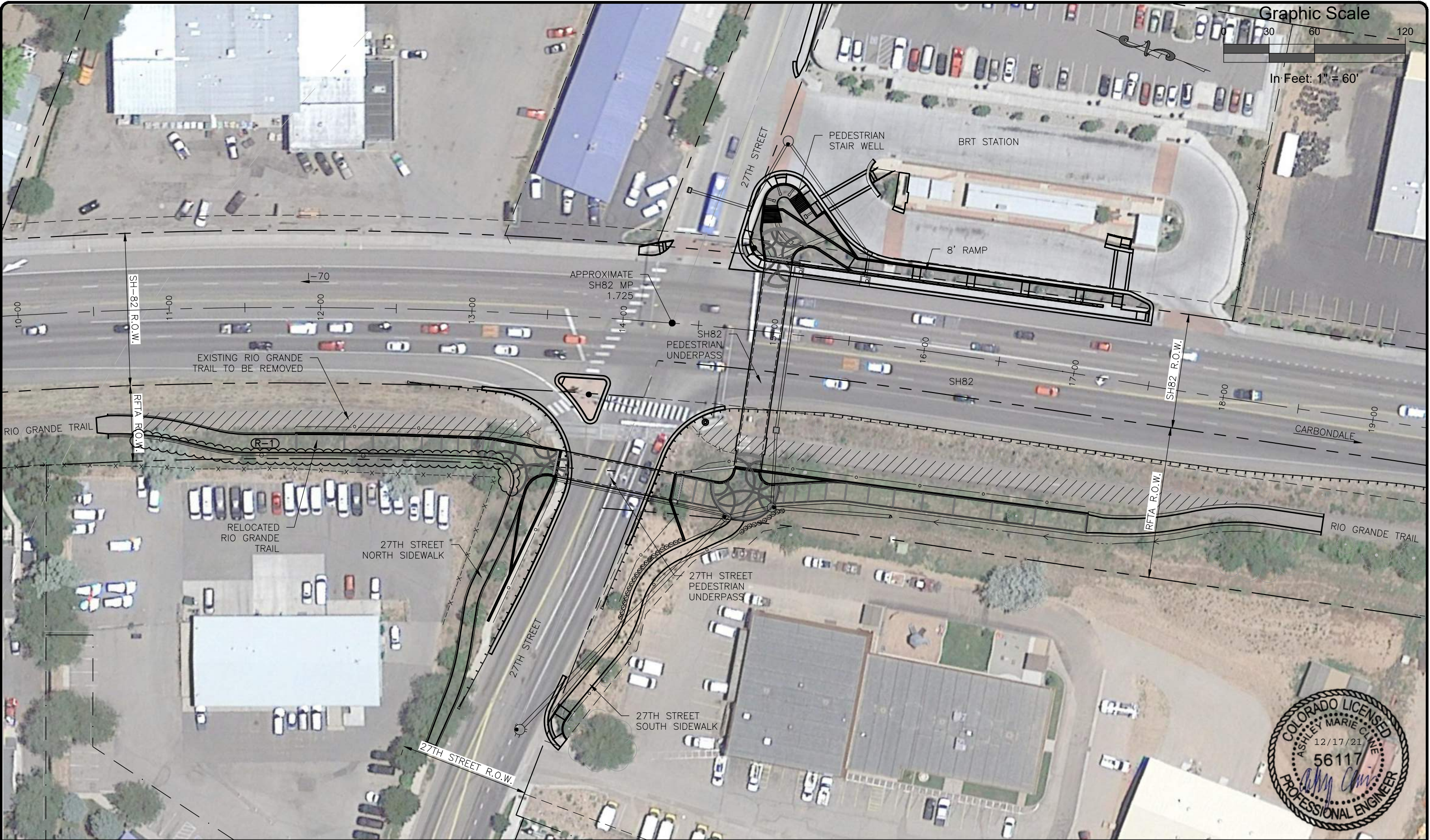
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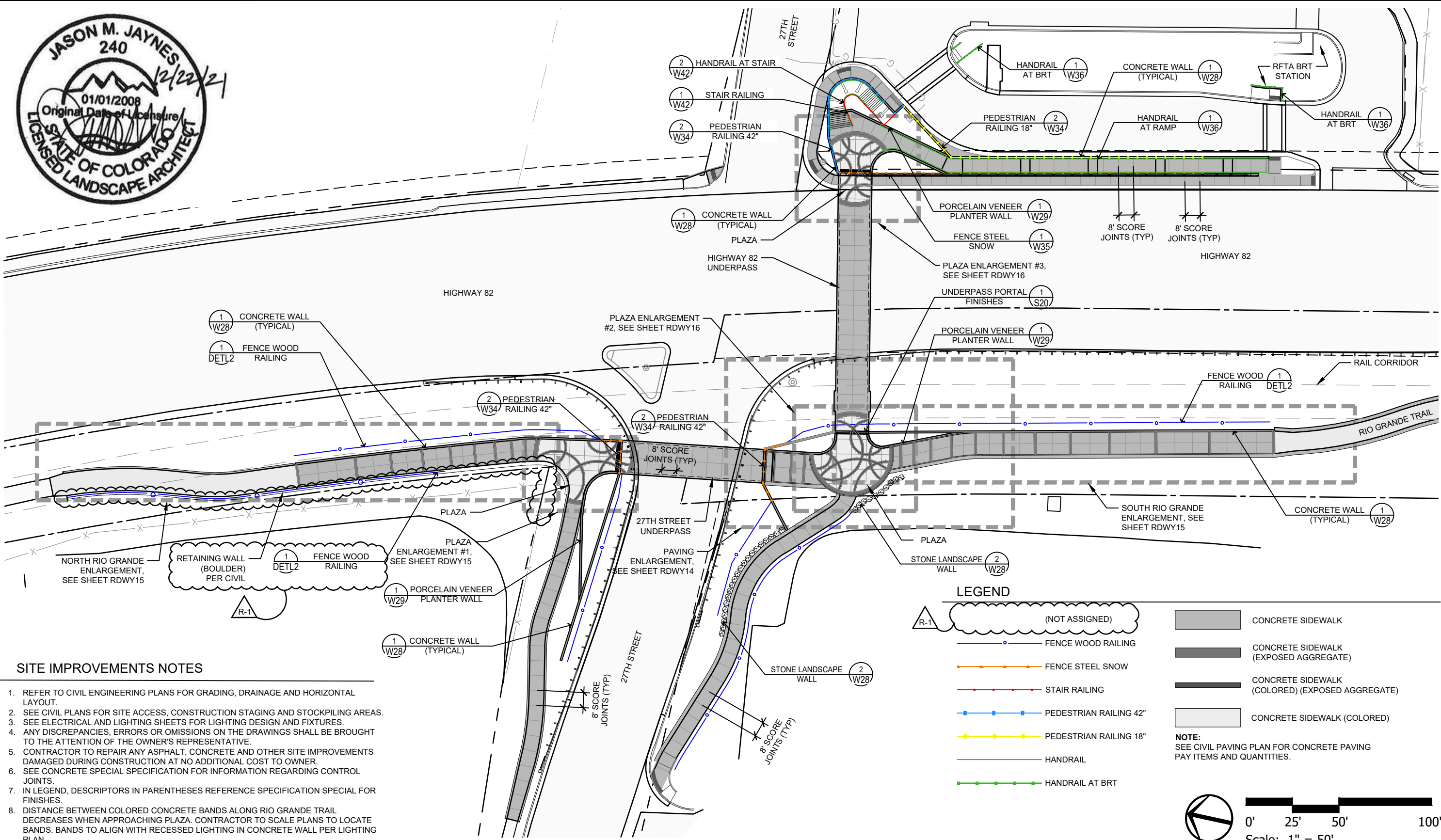
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Rev.	Date	Comments	Init.																								
1	12/22/21	ELIMINATED WALLS 1&3	MWM																								



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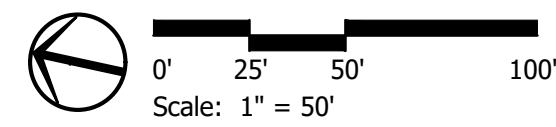


SITE IMPROVEMENTS NOTES

1. REFER TO CIVIL ENGINEERING PLANS FOR GRADING, DRAINAGE AND HORIZONTAL LAYOUT.
2. SEE CIVIL PLANS FOR SITE ACCESS, CONSTRUCTION STAGING AND STOCKPILING AREAS.
3. SEE ELECTRICAL AND LIGHTING SHEETS FOR LIGHTING DESIGN AND FIXTURES.
4. ANY DISCREPANCIES, ERRORS OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
5. CONTRACTOR TO REPAIR ANY ASPHALT, CONCRETE AND OTHER SITE IMPROVEMENTS DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
6. SEE CONCRETE SPECIAL SPECIFICATION FOR INFORMATION REGARDING CONTROL JOINTS.
7. IN LEGEND, DESCRIPTORS IN PARENTHESES REFERENCE SPECIFICATION SPECIAL FOR FINISHES.
8. DISTANCE BETWEEN COLORED CONCRETE BANDS ALONG RIO GRANDE TRAIL DECREASES WHEN APPROACHING PLAZA. CONTRACTOR TO SCALE PLANS TO LOCATE BANDS. BANDS TO ALIGN WITH RECESSED LIGHTING IN CONCRETE WALL PER LIGHTING PLAN.

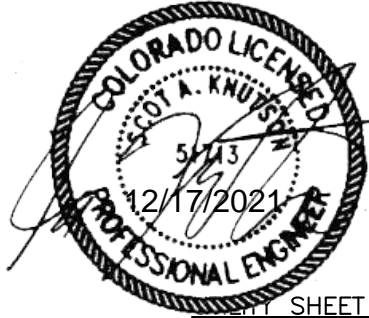
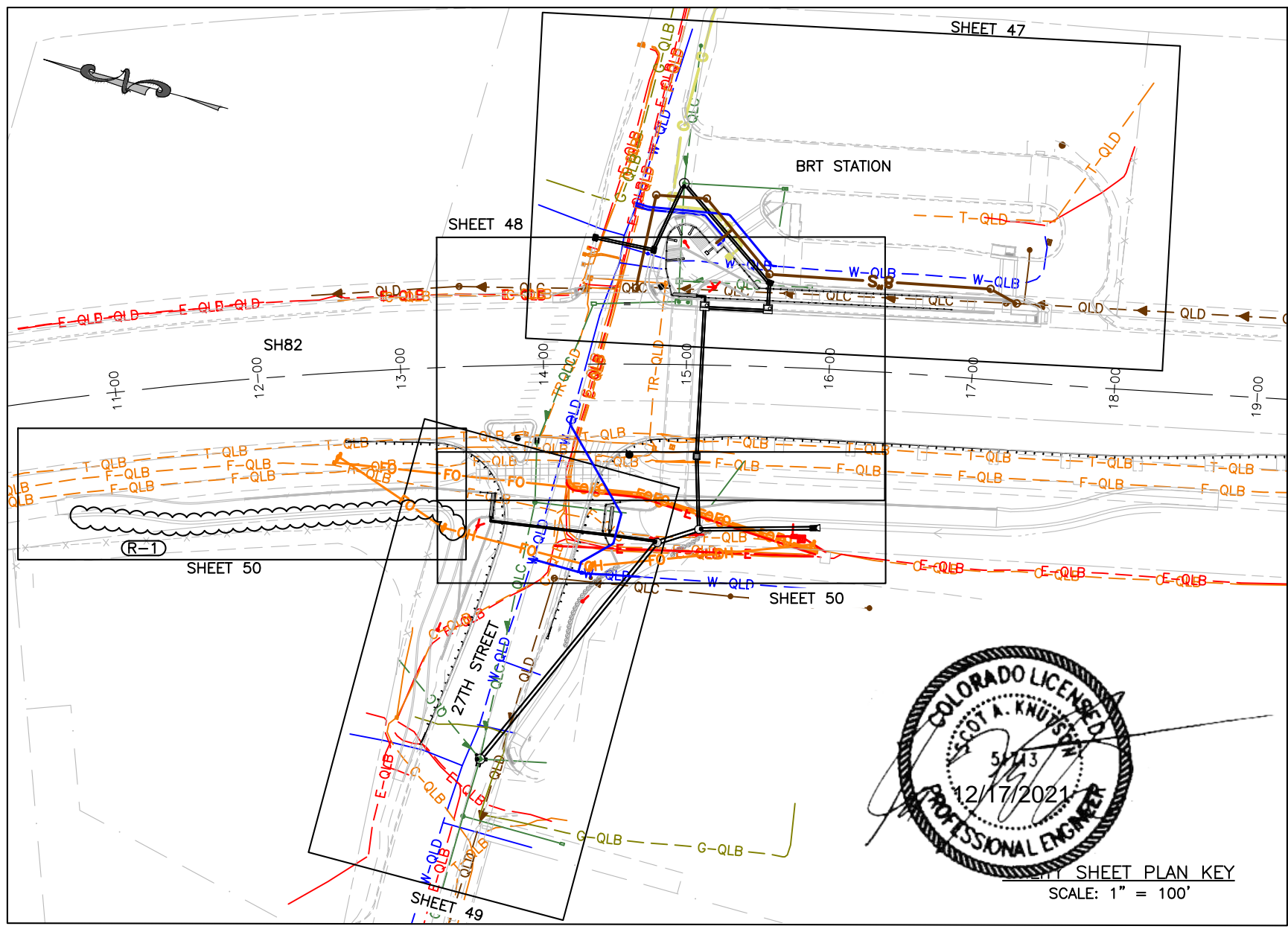
LEGEND

- (NOT ASSIGNED)
 - FENCE WOOD RAILING
 - FENCE STEEL SNOW
 - STAIR RAILING
 - PEDESTRIAN RAILING 42"
 - PEDESTRIAN RAILING 18"
 - HANDRAIL
 - HANDRAIL AT BRT
 - CONCRETE SIDEWALK
 - CONCRETE SIDEWALK (EXPOSED AGGREGATE)
 - CONCRETE SIDEWALK (COLORED) (EXPOSED AGGREGATE)
 - CONCRETE SIDEWALK (COLORED)
- NOTE:** SEE CIVIL PAVING PLAN FOR CONCRETE PAVING PAY ITEMS AND QUANTITIES.



Computer File Information		Sheet Revisions					As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS		Project No./Code		
Print Date: 12/20/21		Rev.	Date	Comments			Init.	No Revisions:		SITE IMPROVEMENTS PLAN		MTF M535-007 / 008	
Last Modification Date: 12/22/21		1	12.22.21	ELIMINATED WALLS 1 & 3				Revised:		Designer: JJ	Structure Numbers	Code: 23687 / 23975	
Drawing File Name: UNDERPASS_L-1-0_SITE PLAN rev numbers								Void:		Drawn By: DB		Sheet Number 36	
Autocad Ver. 2020 Scale: As Shown								Sheet Subset: SITE	Subset Sheets: 2 of 2				
SGM Project No.: 2020-544.001		Quality Control: XX											

S:\PROJECTS\2020\544-GWS27THPEDUNDERPASS\001-DESIGN\H-DWG\CIVIL\PS-SHEETSET\HWY82PUP-UTILITYPLAN.DWG Plotted: 12/15/2021 3:45 PM By: Michael Morrison



SHEET PLAN KEY
SCALE: 1" = 100'

NOTES:

1. SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

LEGEND

	EXISTING	PROPOSED
UNDERGROUND CABLE LINE	C-QLB	TV TV
UNDERGROUND CABLE LINE	C-QLC	
UNDERGROUND CABLE LINE	C-QLD	
FIBER OPTIC LINE	F-QLB	FO FO
FIBER OPTIC LINE	F-QLC	
FIBER OPTIC LINE	F-QLD	
UNDERGROUND TELEPHONE LINE	T-QLB	T T
UNDERGROUND TELEPHONE LINE	T-QLC	
UNDERGROUND TELEPHONE LINE	T-QLD	
OVERHEAD FIBER OPTIC LINE	FO-OH	FO-OH
SEWER LINE	QLB	S S
SEWER LINE	QLC	
SEWER LINE	QLD	
STORM SEWER LINE	QLB	[Double Line]
STORM SEWER LINE	QLC	
STORM SEWER LINE	QLD	
UNDERGROUND ELECTRIC LINE	E-QLB	E E
UNDERGROUND ELECTRIC LINE	E-QLC	
UNDERGROUND ELECTRIC LINE	E-QLD	
OVERHEAD ELECTRIC LINE	E-OH	E-OH
WATER LINE	W-QLB	6"W WS
WATER LINE	W-QLC	
WATER LINE	W-QLD	
GAS LINE	G-QLB	G G
GAS LINE	G-QLC	
GAS LINE	G-QLD	
TRAFFIC SIGNAL	TR-QLB	TR TR
TRAFFIC SIGNAL	TR-QLC	
TRAFFIC SIGNAL	TR-QLD	
UTILITY ABANDONMENT/REMOVAL	[Wavy Line]	
UTILITY CONFLICT ID	[Circle]	
UTILITY TEST HOLE	[Circle]	

CONTACT LIST OF UTILITY OWNERS WITHIN VICINITY OF PROJECT LIMITS

ORGANIZATION NAME	ABBREVIATION	UTILITY TYPE	CONTACT NAME	CONTACT PHONE	CONTACT EMAIL	RECORDS RECEIVED
BLACK HILLS ENERGY	BHEN	GAS	JASON COX	(970) 456-3117	JASON.COX@BLACKHILLSCORP.COM	YES
CENTURYLINK (NOW LUMEN)	CNLK	TELEPHONE	JASON SHARPE	(970) 328-8290	JASON.SHARPE@LUMEN.COM	YES
CITY OF GLENWOOD SPRINGS ELECTRIC	COGS	ELECTRIC	DOUG HAZZARD	(970) 384-6353	DOUG.HAZZARD@COGS.US	YES
CITY OF GLENWOOD SPRINGS FIBER OPTIC	COGS	FIBER OPTIC	MICHAEL GARDNER	(970) 384-4800	MICHAEL.GARDNER@COGS.US	NO
CITY OF GLENWOOD SPRINGS SANITARY & WATER	COGS	SANITARY	MIKE HOFFMAN	(970) 384-6343	MIKE.HOFFMAN@COGS.US	YES
		WATER				
COMCAST	CMCT	CABLE TV, FIBER OPTIC	BRETT WESTPHALL	(720) 979-1921	BRETT_WESTPHALL@COMCAST.COM	YES
COLORADO DEPARTMENT OF TRANSPORTATION	CDOT	FIBER OPTIC, TRAFFIC SIGNAL	DON OLMSTEAD	(970) 379-0539	DONALD.OLMSTEAD@STATE.CO.US	YES

Computer File Information	
Print Date:	12/15/21
Last Modification Date:	06/30/21
Drawing File Name:	Hwy82PUP-UtilityPlan
Autocad Ver. 2020	Scale: As Shown
SGM Project No.:	2020-544.001
Quality Control:	KJS

Sheet Revisions				
Rev.	Date	Comments	Init.	
1	12/22/21	ELIMINATED WALLS 1&3	MWM	



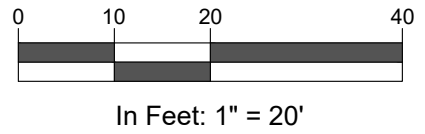
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As Constructed	
No Revisions:	
Revised:	
Void:	

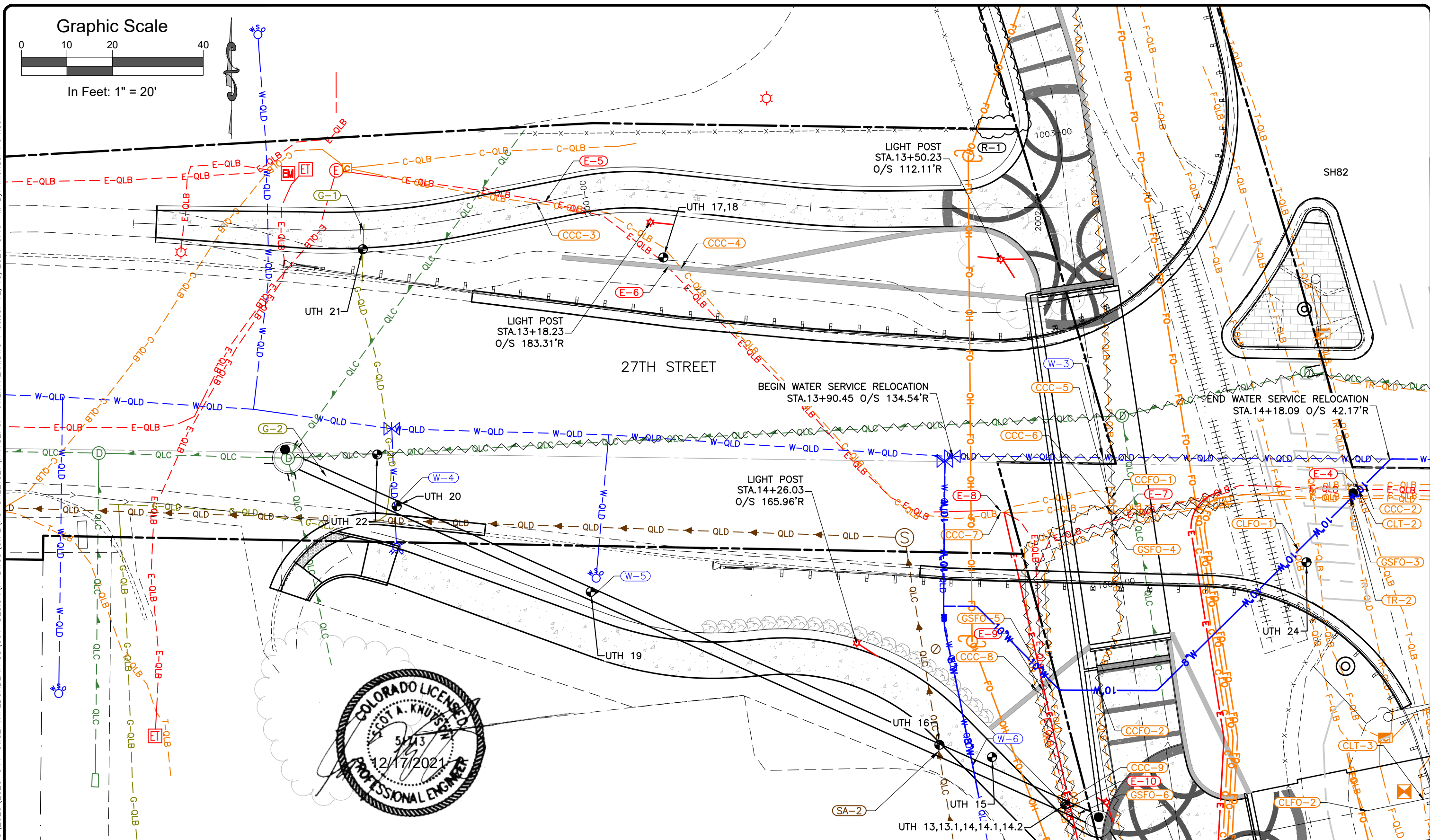
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Engineer:	MDF	Structure Numbers	
Drawn By:	AMC	Subset Sheets:	1 of 11
Sheet Subset:	UTIL		

Project No./Code	
MTF M535-007 / 008	
23687 / 23975	
Sheet Number	44

Graphic Scale



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Computer File Information	
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Last Modification Date:	06/30/21
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Autocad Ver. 2020	Scale: As Shown
SGM Project No.:	2020-544.001
Quality Control:	KJS

Sheet Revisions			
Rev.	Date	Comments	Init.
1	12/22/21	ELIMINATED WALLS 1&3	MWM

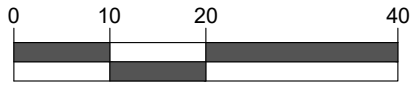
118 West Sixth Street, Suite 200
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As Constructed	
No Revisions:	
Revised:	
Void:	

27TH ST AND SH82 PEDESTRIAN UNDERPASS 27TH STREET (WEST) UTILITY PLAN			
Engineer:	MDF	Structure Numbers	
Drawn By:	AMC		
Sheet Subset:	UTIL	Subset Sheets:	6 of 11

Project No./Code	
MTF M535-007 / 008	
23687 / 23975	
Sheet Number	49

Graphic Scale



In Feet: 1" = 20'

SH-82

TEMPORARY FIBER RELOCATION
BY CMCT
STA.12+53.01 O/S 58.81'R

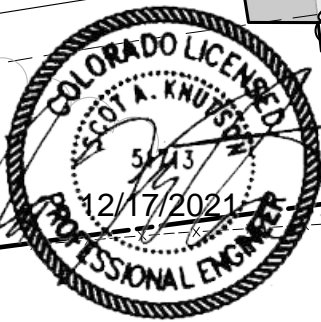
COMCAST
TO BE RELOCATED
BY CMCT

PROPOSED COMCAST
(1) 4" PVC

Ex. Rio Grande Trail

RIO GRANDE TRAIL

TEMPORARY FIBER RELOCATION
BY CMCT
STA.13+25.55 O/S 112.20'R



PROPOSED COGS
ELECTRIC
(2) 6" PVC
PROPOSED COGS
BROADBAND
(1) 2" PVC
PROPOSED COMCAST
(1) 3" PVC

CENTURYLINK
TO BE RELOCATED
BY CNLK

ELECTRIC PEDESTAL
STA.15+80.49 O/S 117.11'R

ELECTRIC TRANSFORMER
STA.15+85.81 O/S 117.21'R

LIGHT POST
STA.14+76.37
O/S 121.97'R

LIGHT POST
STA.15+09.17
O/S 118.80'R

PROPOSED COGS
ELECTRIC
(2) 6" PVC

PROPOSED COMCAST
(1) 4" PVC

TEMPORARY FIBER RELOCATION
BY CMCT
STA.14+32.72 O/S 141.37'R

TEMPORARY FIBER RELOCATION
BY CMCT
STA.15+94.01 O/S 123.13'R

Computer File Information

Print Date: 12/15/21
Last Modification Date: 12/14/21
Drawing File Name: Hwy82PUP-UtilityPlan
Autocad Ver. 2020 Scale: As Shown
SGM Project No.: 2020-544.001 Quality Control: KJS

Sheet Revisions

Rev.	Date	Comments	Init.
1	12/22/21	ELIMINATED WALLS 1&3	MWM



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No Revisions:
Revised:
Void:

**27TH ST AND SH82 PEDESTRIAN UNDERPASS
RIO GRANDE TRAIL UTILITY PLAN**

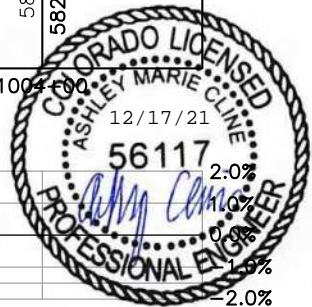
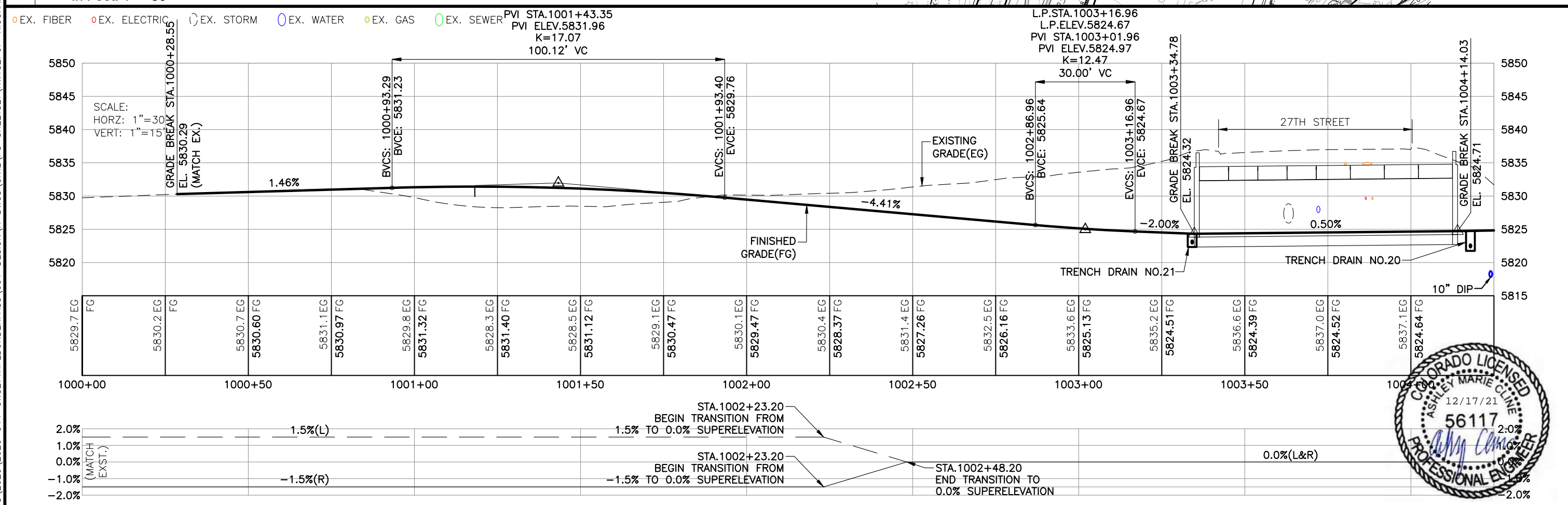
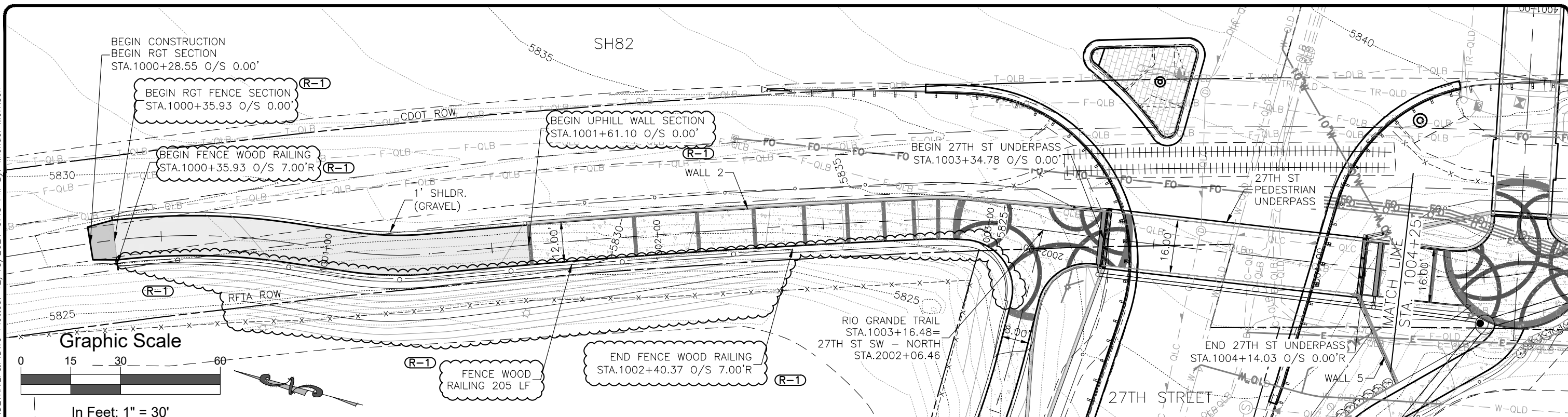
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Drawn By: AMC
Sheet Subset: UTIL Subset Sheets: 7 of 11

Project No./Code

MTF M535-007 / 008
23687 / 23975
Sheet Number 50

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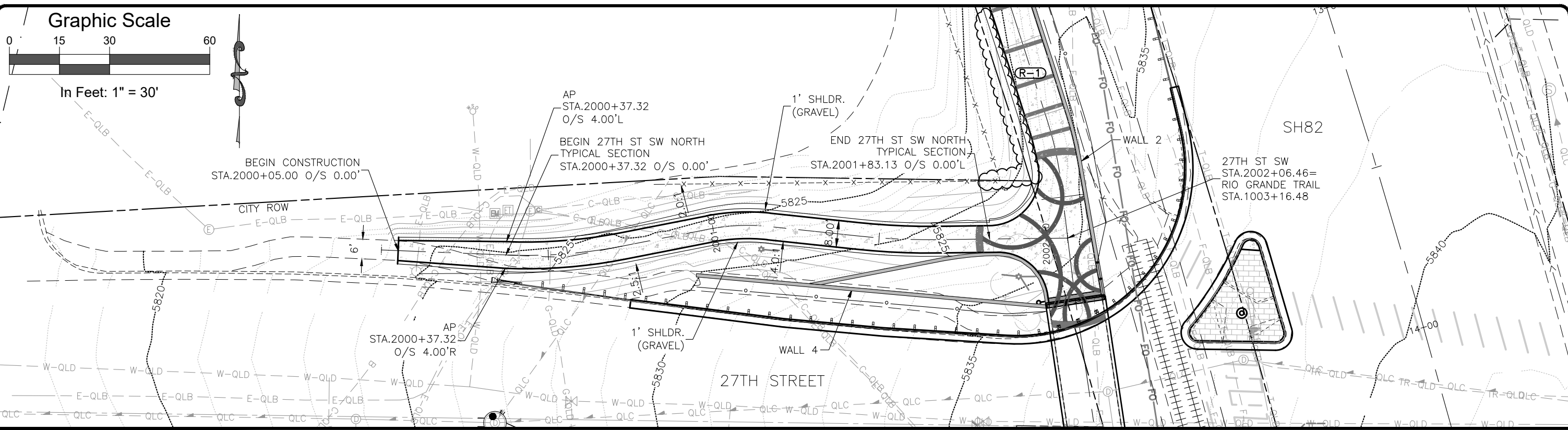
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Quality Control:	MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
1	12/22/21	ELIMINATED WALLS 1&3	MWM

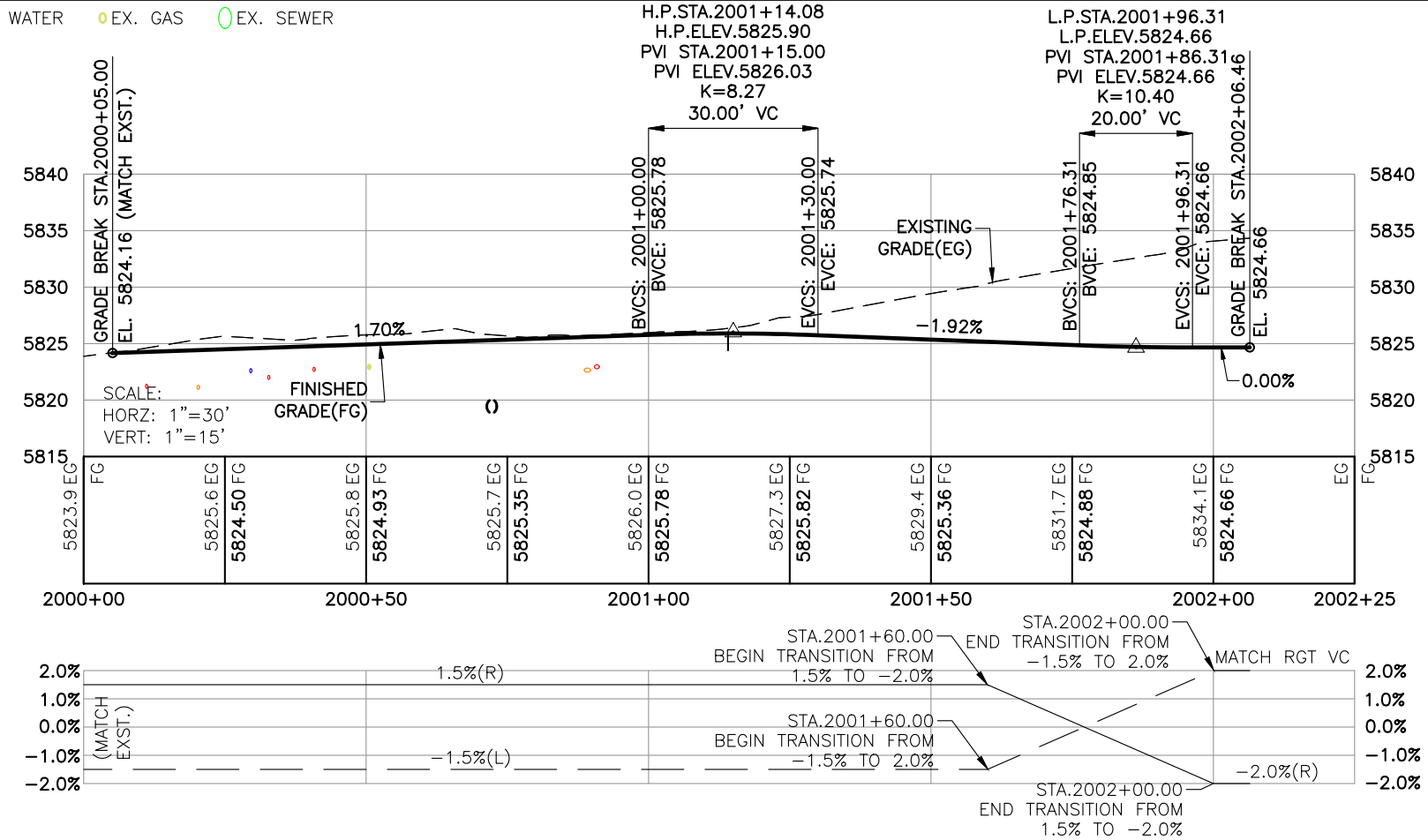
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As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS RIO GRANDE TRAIL PLAN & PROFILE (1)		Project No./Code	
No Revisions:				MTF M535-007 / 008	
Revised:		Engineer:	AMC	Structure Numbers	23687 / 23975
Void:		Drawn By:	AMC	Sheet Subset:	ROADWAY
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				Sheet Number	64

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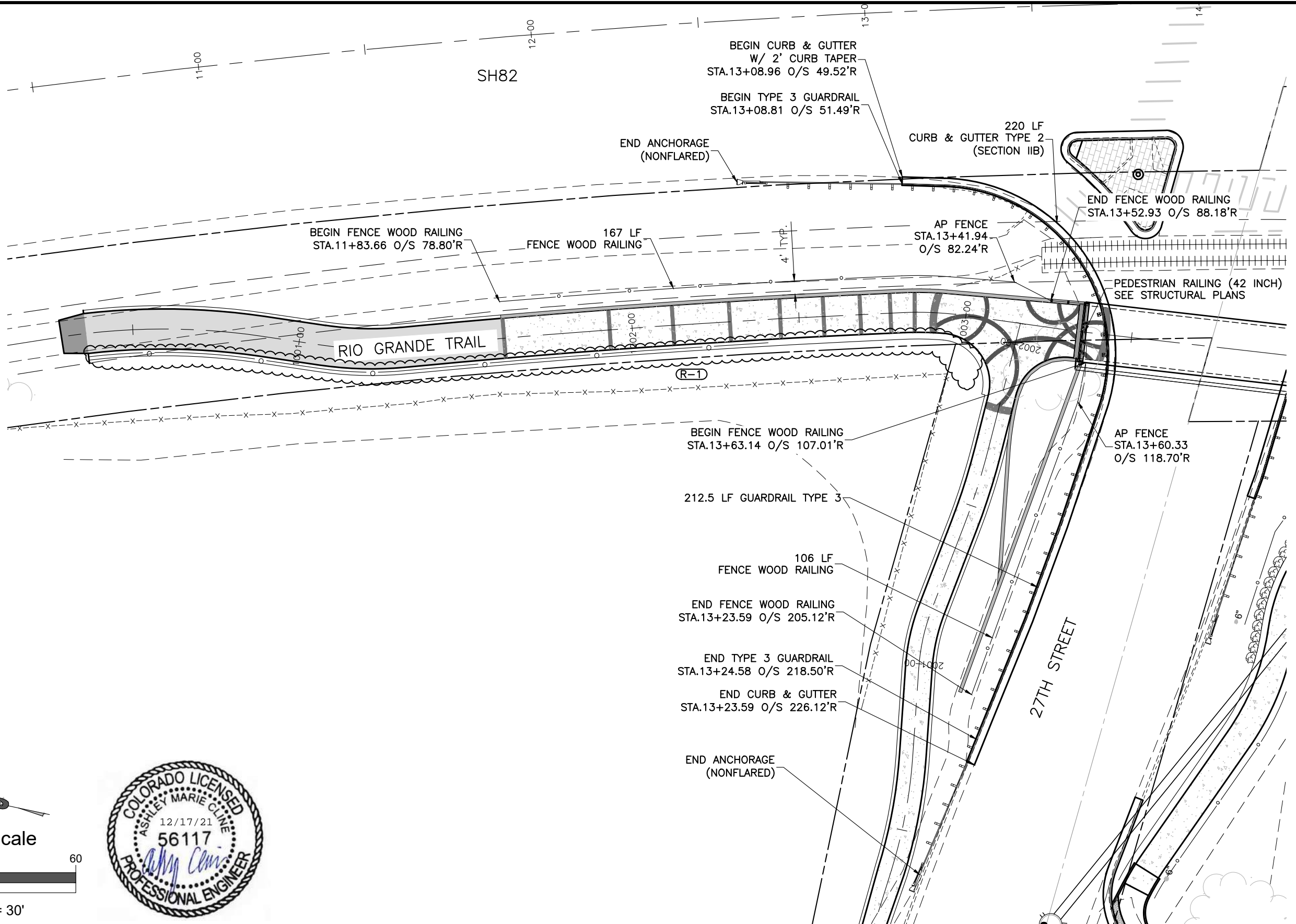


○ EX. FIBER ● EX. ELECTRIC ◡ EX. STORM ◯ EX. WATER ● EX. GAS ◯ EX. SEWER

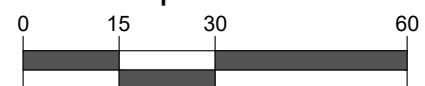


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Print Date:	12/15/21	Rev.	Date	Comments	Init.			No Revisions:		Engineer: AMC		MTF M535-007 / 008	
Last Modification Date:	12/13/21	1	12/22/21	ELIMINATED WALLS 1&3	MWM	Revised:		Structure Numbers		23687 / 23975			
Drawing File Name:	Hwy82PUP-27thStTrailP&P					Void:		Drawn By: AMC		Sheet Number 66			
Autocad Ver.	2020	Quality Control: MDF						Sheet Subset: ROADWAY		Subset Sheets: 3 of 23			
SGM Project No.:	2020-544.001												

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Graphic Scale



In Feet: 1" = 30'



Computer File Information		Sheet Revisions				As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS ROADWAY PLAN (1)			Project No./Code	
Print Date:	12/17/21	Rev.	Date	Comments	Init.	No Revisions:		Engineer: AMC			MTF M535-007 / 008	
Last Modification Date:	06/30/21	1	12/22/21	ELIMINATED WALLS 1&3	MWM	Revised:		Structure Numbers			23687 / 23975	
Drawing File Name:	Hwy82PUP-RoadwayPlan					Void:		Drawn By: AMC			Sheet Number 72	
Autocad Ver. 2020	Scale: As Shown							Sheet Subset: ROADWAY			Subset Sheets: 9 of 23	
SGM Project No.:	2020-544.001							Quality Control: MDF				



As Constructed
No Revisions:
Revised:
Void:

27TH ST AND SH82 PEDESTRIAN UNDERPASS ROADWAY PLAN (1)
Engineer: AMC
Structure Numbers
Drawn By: AMC
Sheet Subset: ROADWAY
Subset Sheets: 9 of 23

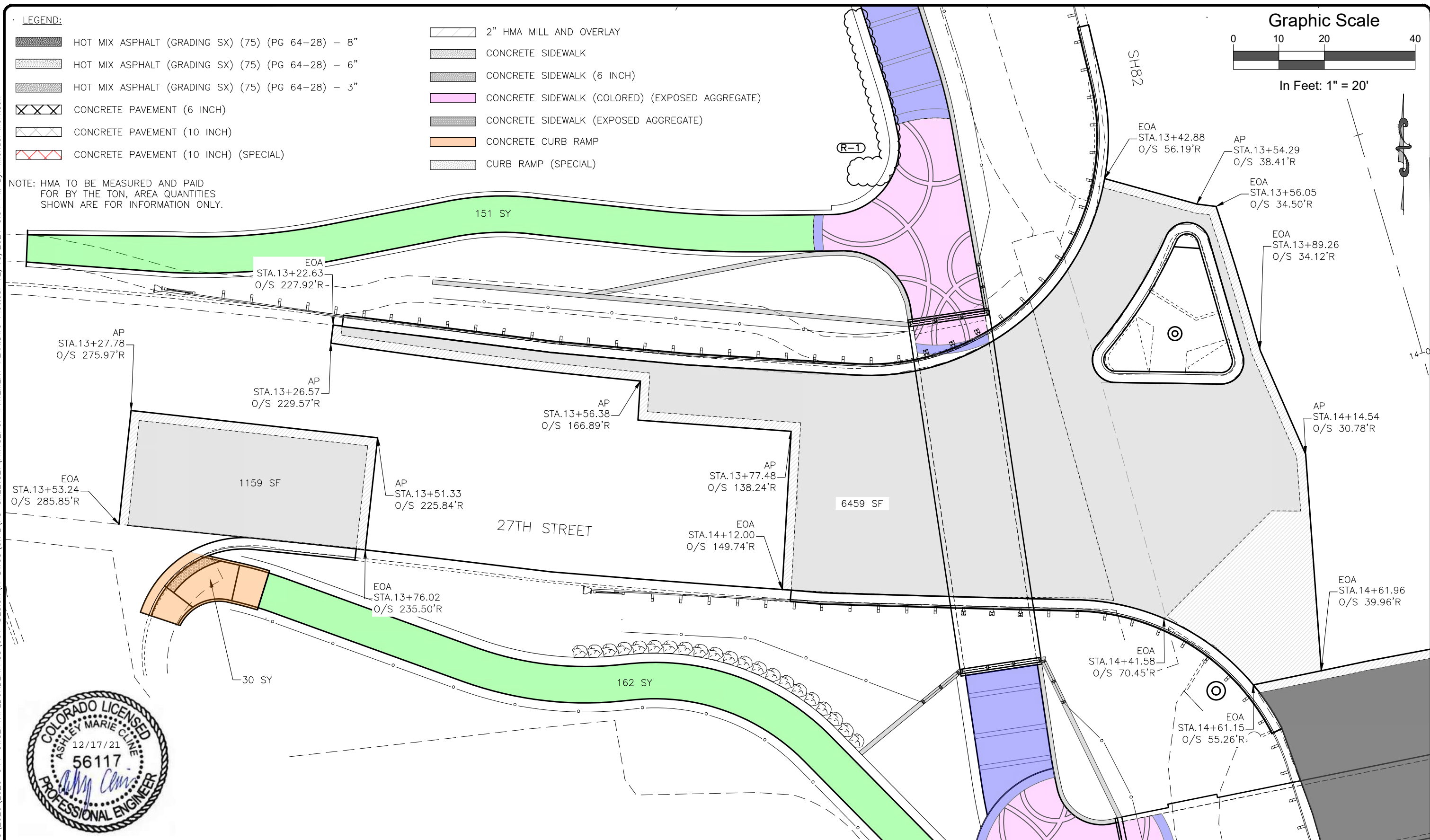
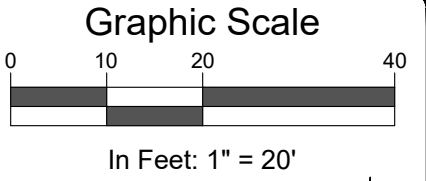
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23687 / 23975
Sheet Number 72

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LEGEND:

- HOT MIX ASPHALT (GRADING SX) (75) (PG 64-28) - 8"
- HOT MIX ASPHALT (GRADING SX) (75) (PG 64-28) - 6"
- HOT MIX ASPHALT (GRADING SX) (75) (PG 64-28) - 3"
- CONCRETE PAVEMENT (6 INCH)
- CONCRETE PAVEMENT (10 INCH)
- CONCRETE PAVEMENT (10 INCH) (SPECIAL)
- 2" HMA MILL AND OVERLAY
- CONCRETE SIDEWALK
- CONCRETE SIDEWALK (6 INCH)
- CONCRETE SIDEWALK (COLORED) (EXPOSED AGGREGATE)
- CONCRETE SIDEWALK (EXPOSED AGGREGATE)
- CONCRETE CURB RAMP
- CURB RAMP (SPECIAL)

NOTE: HMA TO BE MEASURED AND PAID FOR BY THE TON, AREA QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

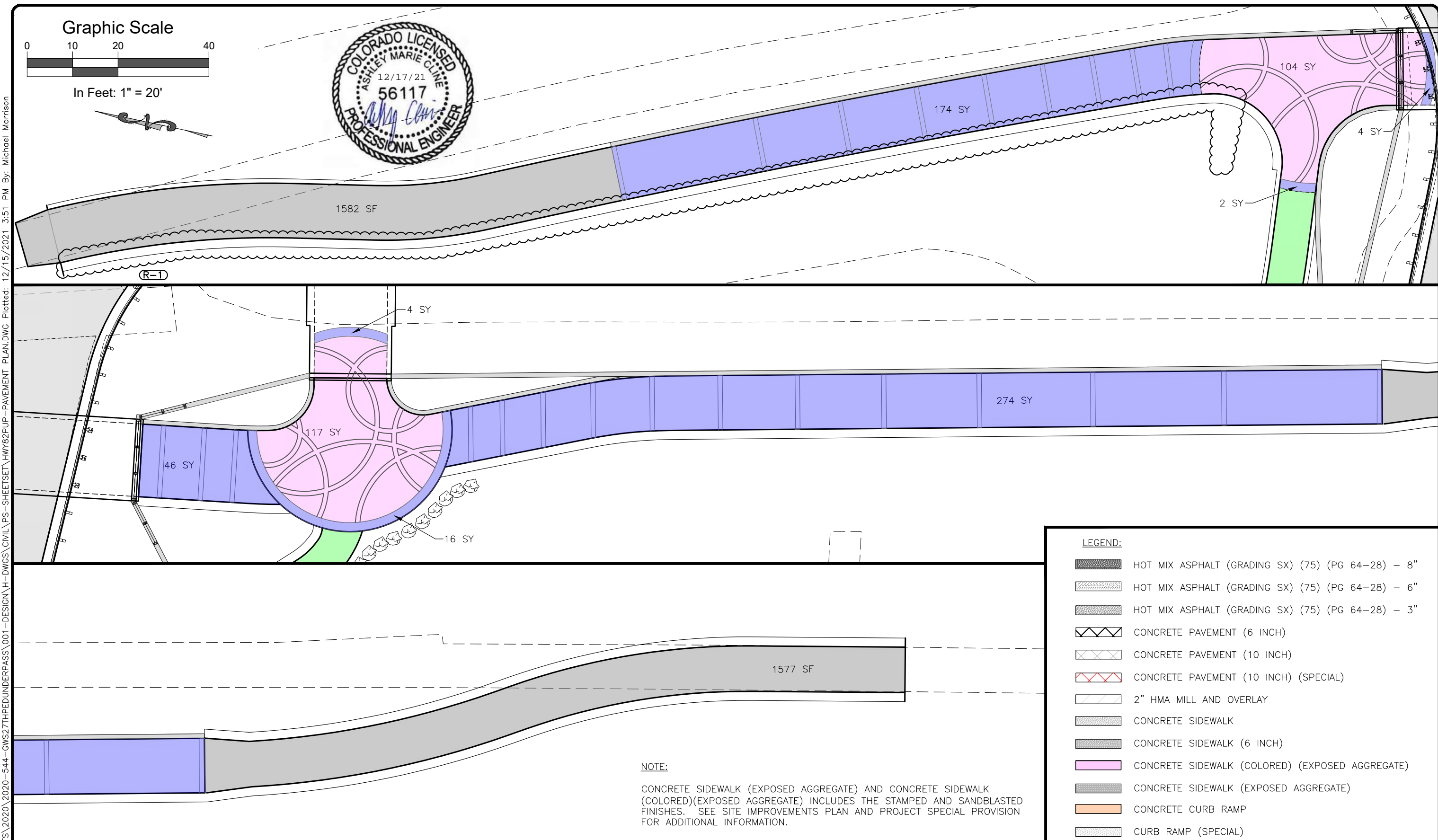
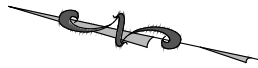


Computer File Information		Sheet Revisions					As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS PAVING PLAN (1)		Project No./Code	
Print Date: 12/15/21	Last Modification Date: 06/30/21	Rev.	Date	Comments			Init.	No Revisions:	Revised:	Void:	Engineer: AMC	Structure Numbers
Drawing File Name: Hwy82PUP-Pavement Plan	Autocad Ver. 2020 Scale: As Shown	1	12/22/21	ELIMINATED WALLS 1&3	MWM				Drawn By: MWM			Sheet Number 74
SGM Project No.: 2020-544.001	Quality Control: MDF								Sheet Subset: ROADWAY	Subset Sheets: 11 of 23		

Graphic Scale



In Feet: 1" = 20'



NOTE:

CONCRETE SIDEWALK (EXPOSED AGGREGATE) AND CONCRETE SIDEWALK (COLORED)(EXPOSED AGGREGATE) INCLUDES THE STAMPED AND SANDBLASTED FINISHES. SEE SITE IMPROVEMENTS PLAN AND PROJECT SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

LEGEND:

- HOT MIX ASPHALT (GRADING SX) (75) (PG 64-28) - 8"
- HOT MIX ASPHALT (GRADING SX) (75) (PG 64-28) - 6"
- HOT MIX ASPHALT (GRADING SX) (75) (PG 64-28) - 3"
- CONCRETE PAVEMENT (6 INCH)
- CONCRETE PAVEMENT (10 INCH)
- CONCRETE PAVEMENT (10 INCH) (SPECIAL)
- 2" HMA MILL AND OVERLAY
- CONCRETE SIDEWALK
- CONCRETE SIDEWALK (6 INCH)
- CONCRETE SIDEWALK (COLORED) (EXPOSED AGGREGATE)
- CONCRETE SIDEWALK (EXPOSED AGGREGATE)
- CONCRETE CURB RAMP
- CURB RAMP (SPECIAL)

Computer File Information	
Print Date: 12/15/21	Last Modification Date: 06/30/21
Drawing File Name: Hwy82PUP-Pavement Plan	
Autocad Ver. 2020	Scale: As Shown
SGM Project No.: 2020-544.001	Quality Control: MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
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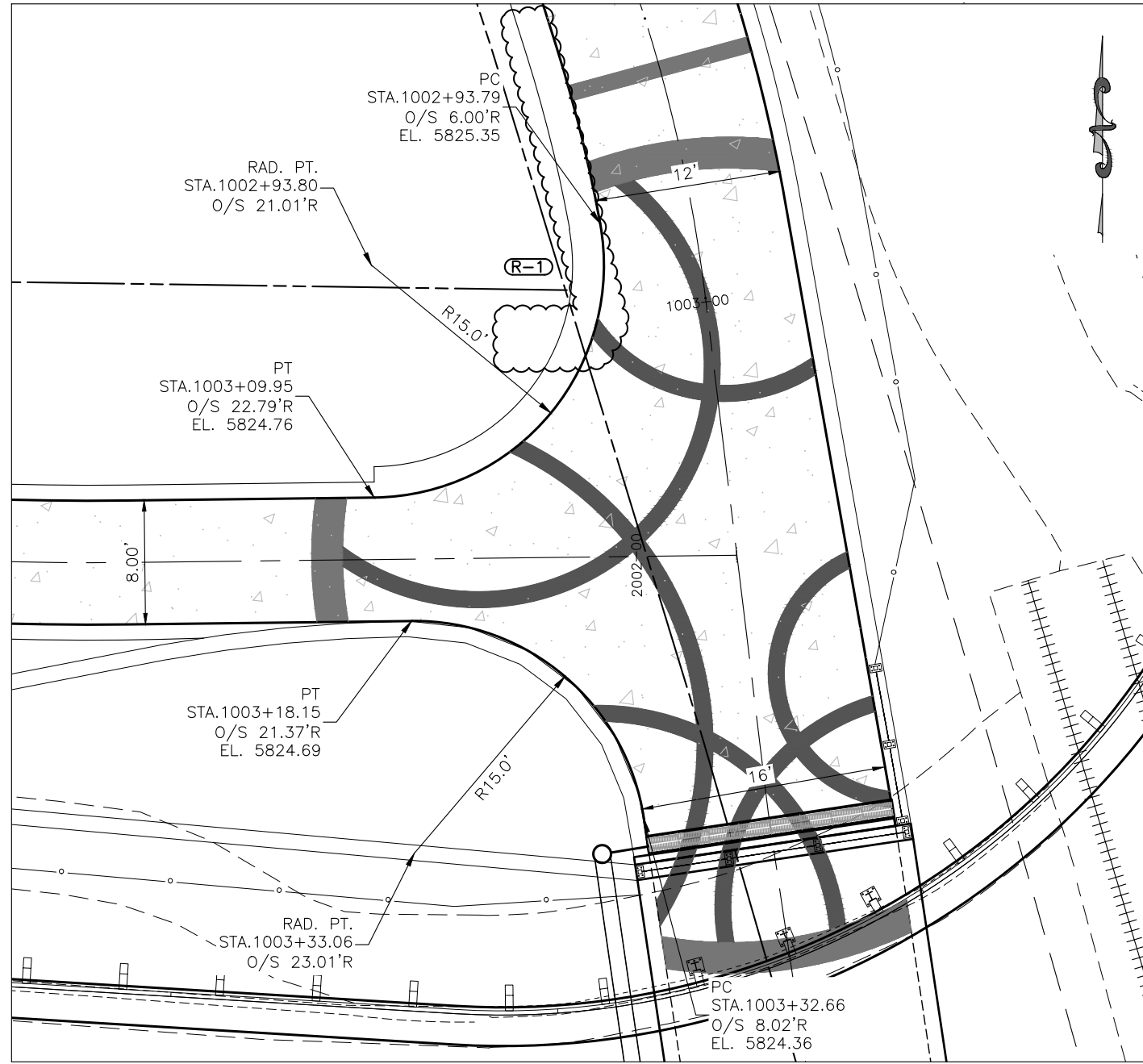
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27TH ST AND SH82 PEDESTRIAN UNDERPASS PAVING PLAN (5)			
Engineer:	AMC	Structure Numbers	
Drawn By:	AMC		
Sheet Subset:	ROADWAY	Subset Sheets:	15 of 23

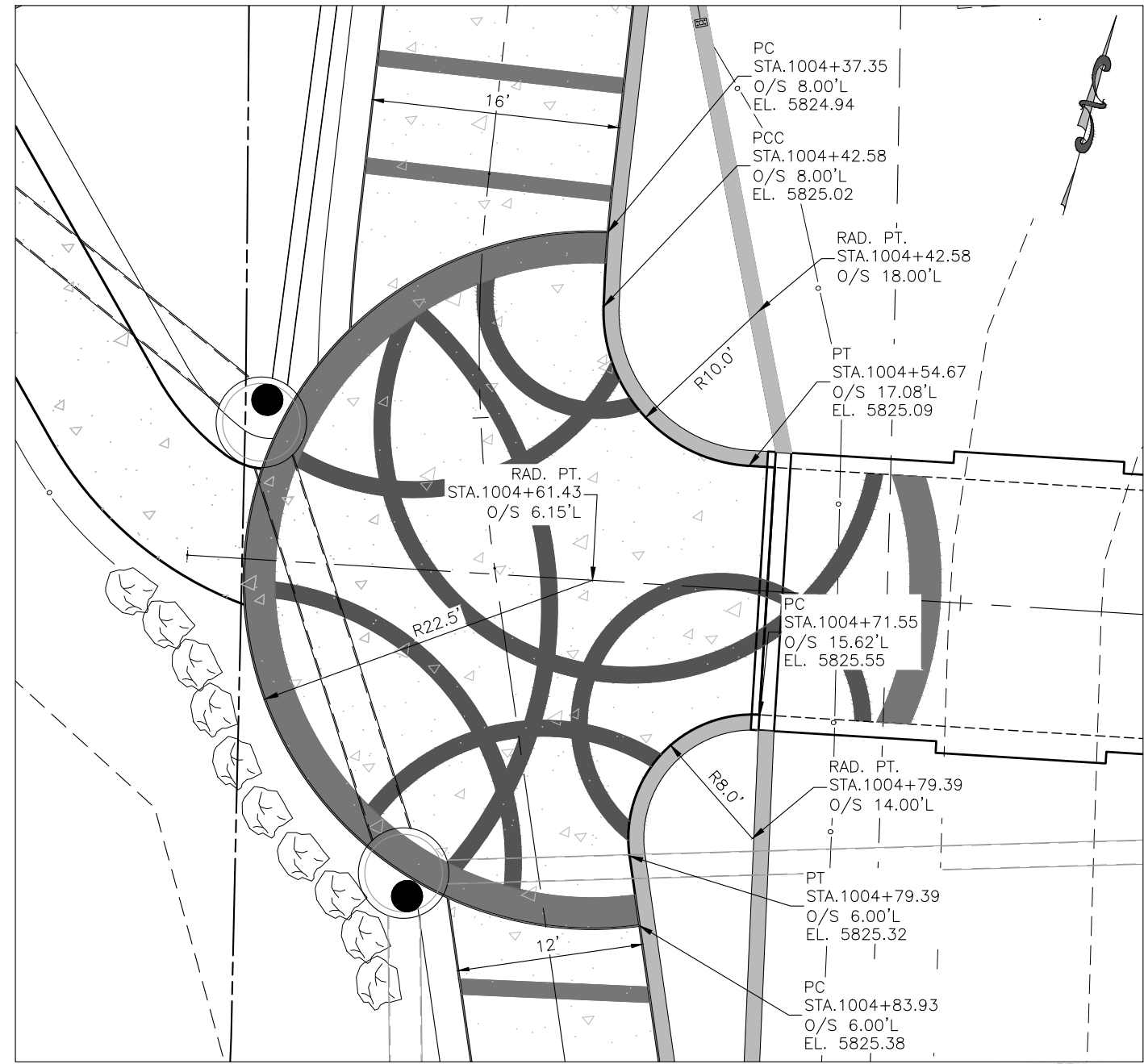
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23687 / 23975	
Sheet Number	78

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NORTH 27TH STREET SIDEWALK & RIO GRANDE TRAIL
SCALE: 1"=10'



SOUTH 27TH STREET SIDEWALK & RIO GRANDE TRAIL
SCALE: 1"=10'



Computer File Information	
Print Date:	12/15/21
Last Modification Date:	12/13/21
Drawing File Name:	Hwy82PUP-UnderpassSidewalk
Autocad Ver.:	2020 Scale: As Shown
SGM Project No.:	2020-544.001 Quality Control: MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
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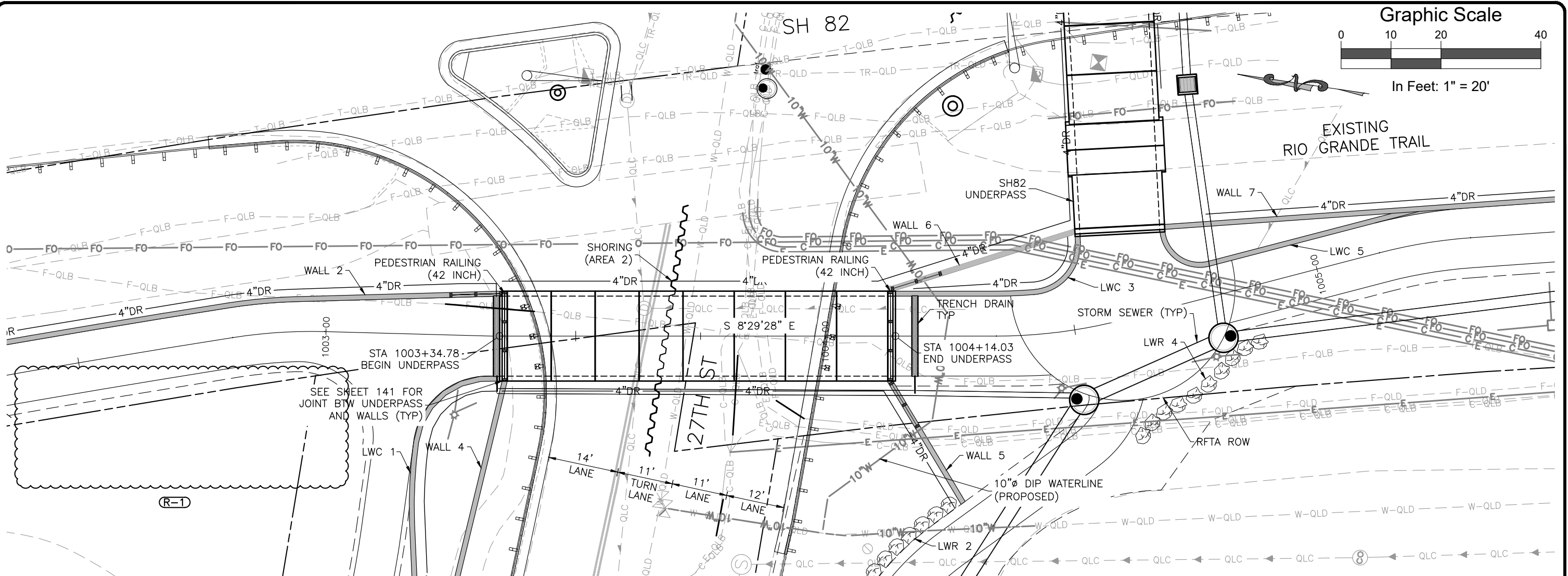
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As Constructed	
No Revisions:	
Revised:	
Void:	

27TH ST AND SH82 PEDESTRIAN UNDERPASS TRAIL INTERSECTION DETAILS			
Engineer:	AMC	Structure Numbers	
Drawn By:	MWM		
Sheet Subset:	ROADWAY	Subset Sheets:	20 of 23

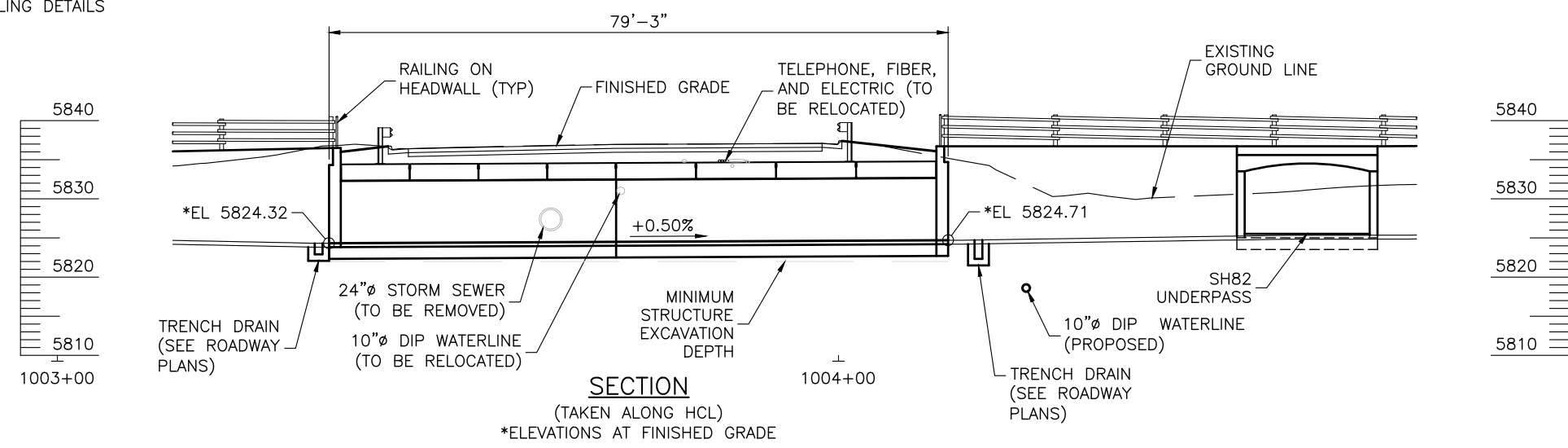
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	23687 / 23975
Sheet Number	83

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PLAN

- NOTES:**
1. FENCE WOOD RAILING NOT SHOWN FOR CLARITY.
 2. SEE LANDSCAPE PLANS FOR FENCE WOOD RAILING DETAILS
 3. SEE SHEET 72 FOR FENCE LAYOUT.



SECTION

(TAKEN ALONG HCL)
*ELEVATIONS AT FINISHED GRADE



Computer File Information		Sheet Revisions			As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS GENERAL LAYOUT - 27TH ST UNDERPASS		Project No./Code	
Print Date: 12/15/21		Rev.	Date	Comments	Init.	No Revisions:			MTF M535-007 / 008	
Last Modification Date: 12/15/21		1	12/22/21	ELIMINATED WALLS 1 & 3	CWG	Revised:	Engineer: MCF	Structure Numbers	23687 / 23975	
Drawing File Name: S04gnl-RGT						Void:	Drawn By: MDF		Sheet Number 97	
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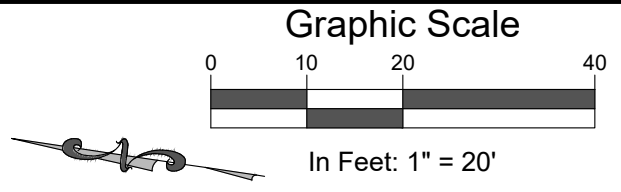
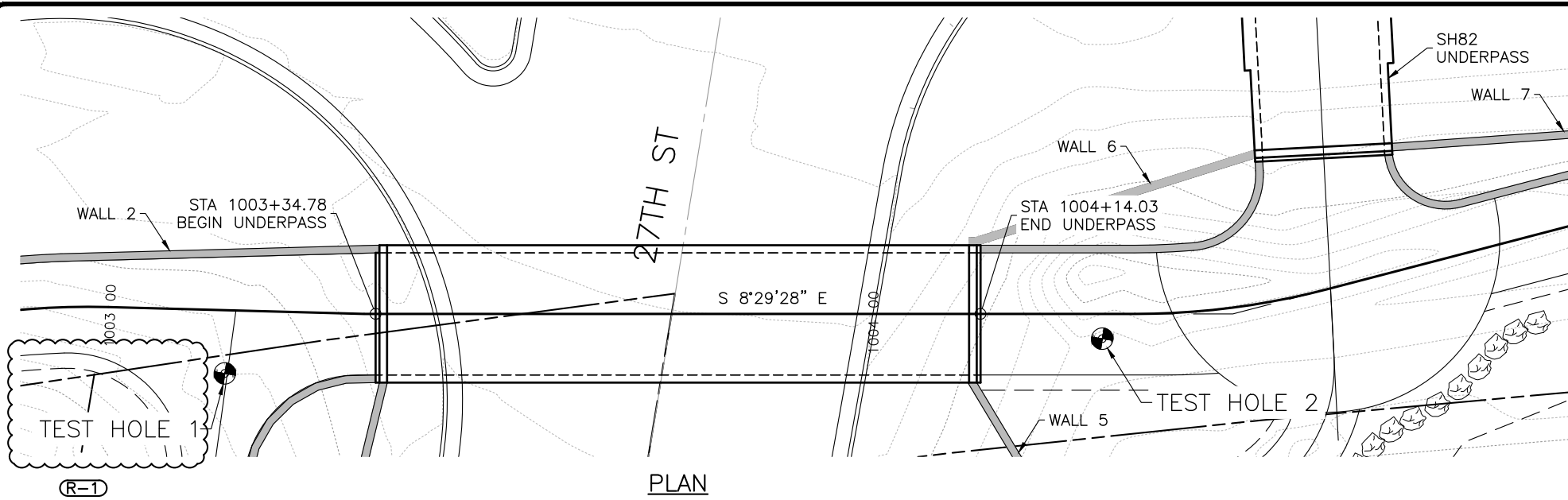


As Constructed
No Revisions:
Revised:
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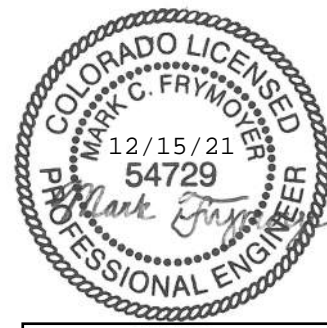
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Drawn By: MDF
Structure Numbers
Sheet Subset: STRUCT
Subset Sheets: S4 of 21

Project No./Code
MTF M535-007 / 008
23687 / 23975
Sheet Number 97

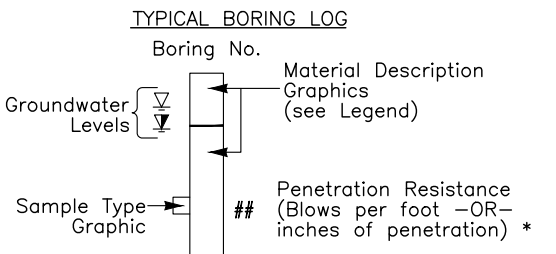
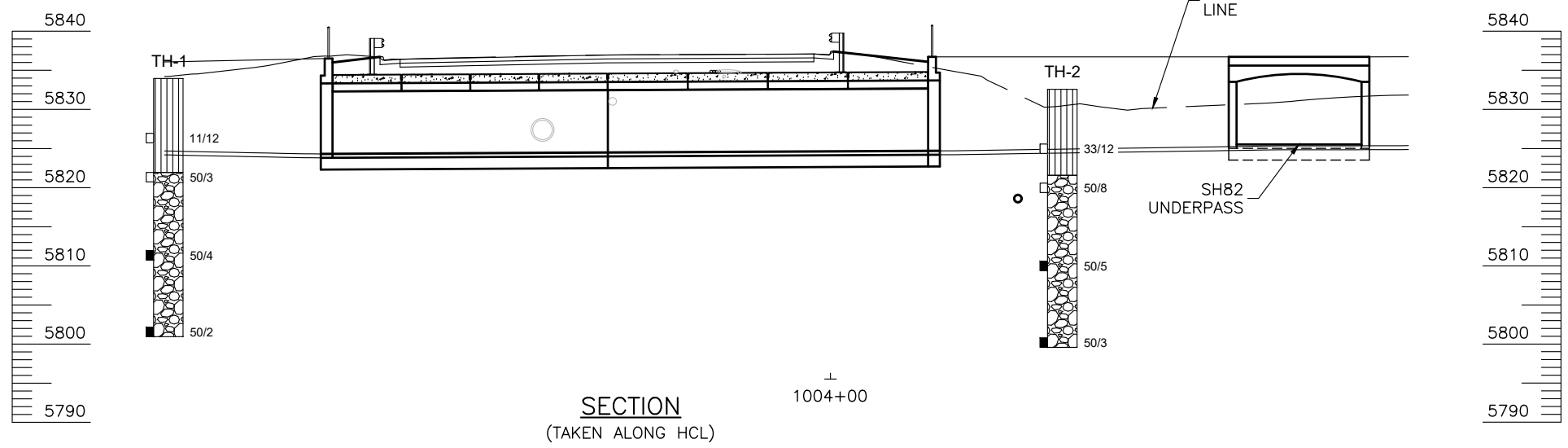
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- NOTES:**
- TEST HOLES WERE DRILLED ON DECEMBER 2 AND 4, 2020 WITH 7-INCH ODEX WITH PERCUSSIVE.
 - TEST HOLE DESCRIPTIONS ARE SUBJECT TO EXPLANATIONS CONTAINED IN THE REPORT, RJ ENGINEERING PROJECT NO. 20-037R-G1.
 - BOREHOLE LOCATIONS WERE SURVEYED BY SGM.
 - THE LINES BETWEEN THE MATERIALS SHOWN IN THE TEST HOLE LOGS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES AND THE ACTUAL TRANSITIONS MAY BE GRADUAL.
 - GROUND WATER WAS NOT ENCOUNTERED AT THE TIMES OF DRILLING. FLUCTUATIONS IN THE WATER LEVEL MAY OCCUR WITH TIME.



MY RESPONSIBILITY WITH RESPECT TO THESE PLANS IS LIMITED TO STRUCTURAL ENGINEERING DESIGN.

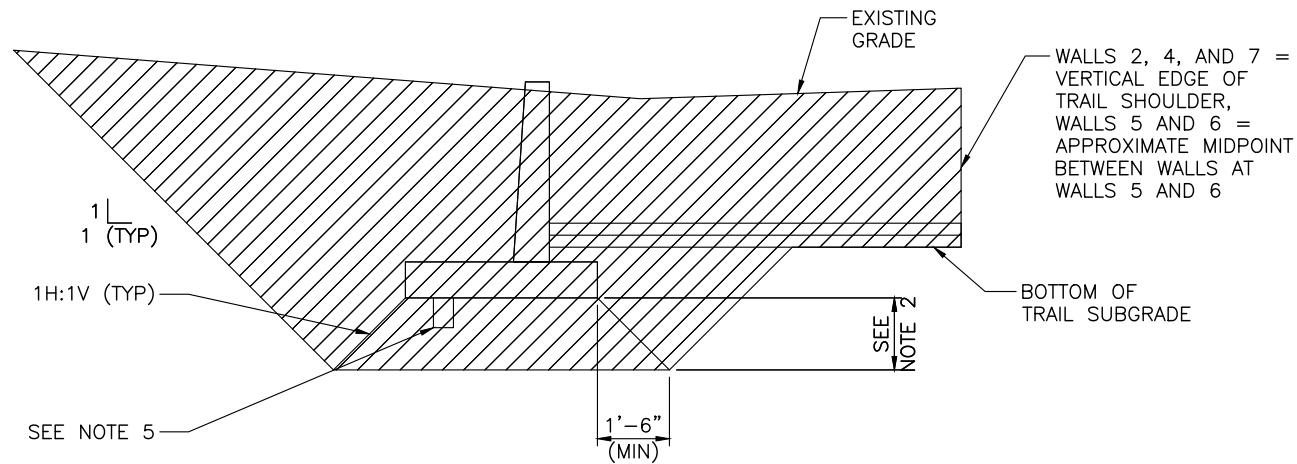


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08/21	MLF	08/21	MLF	08/21	MLF

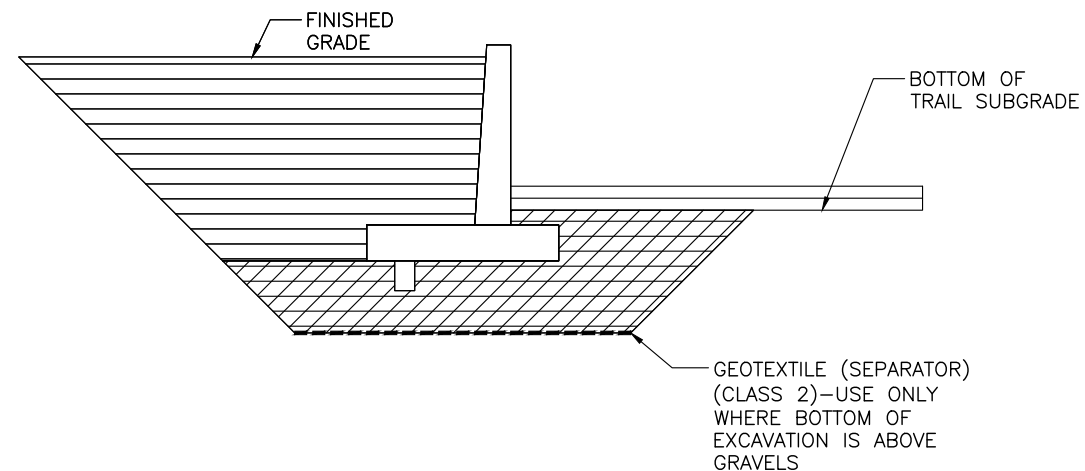
SUMMARY OF TEST RESULTS										TYPE OF MATERIAL				LEGEND	
Test Hole	Depth (ft)	Sample Type	Classification	AASHTO	Grain Size Analysis Percent			Atterberg Limits			Water Content %	Dry Unit Weight γ _{p.c.f.}	Symbol	Description	
					Gravel > #4	Sand	Fines < #200	Liquid Limit LL	Plastic Limit PL	Plastic Index PI					
TH-1	7	CA	SILT, sandy, gravelly (ML)	-						10.7	104	11/12	Modified California Sampler. The symbol 11/12 indicates that 11 blows from a 140 pound hammer falling 30 inches was used to drive a 2-in I.D. sampler 12 inches.		
												50/4	Standard Split Spoon Sampler. The symbol 50/4 indicates that 50 blows from a 140 pound hammer falling 30 inches was used to drive a 1.5-in I.D. sampler 4 inches.		

Computer File Information Print Date: 12/15/21 Last Modification Date: 12/15/21 Drawing File Name: S08eng-RGT Autocad Ver. 2020 Scale: As Shown SGM Project No.: 2020-544.001 Quality Control: MLF		Sheet Revisions <table border="1"> <tr> <th>Rev.</th> <th>Date</th> <th>Comments</th> <th>Init.</th> </tr> <tr> <td>1</td> <td>12/22/21</td> <td>ELIMINATED WALLS 1 & 3</td> <td>CWG</td> </tr> </table>		Rev.	Date	Comments	Init.	1	12/22/21	ELIMINATED WALLS 1 & 3	CWG			<p>118 West Sixth Street, Suite 200 Glenwood Springs, CO 81601 970.945.1004 www.sgm-inc.com</p>		As Constructed No Revisions: Revised: Void:		27TH ST AND SH82 PEDESTRIAN UNDERPASS ENGINEERING GEOLOGY - 27TH ST UNDERPASS Engineer: MCF Drawn By: MDF Sheet Subset: STRUCT Subset Sheets: S8 of 21		Project No./Code MTF M535-007 / 008 23687 / 23975 Sheet Number 101	
Rev.	Date	Comments	Init.																		
1	12/22/21	ELIMINATED WALLS 1 & 3	CWG																		

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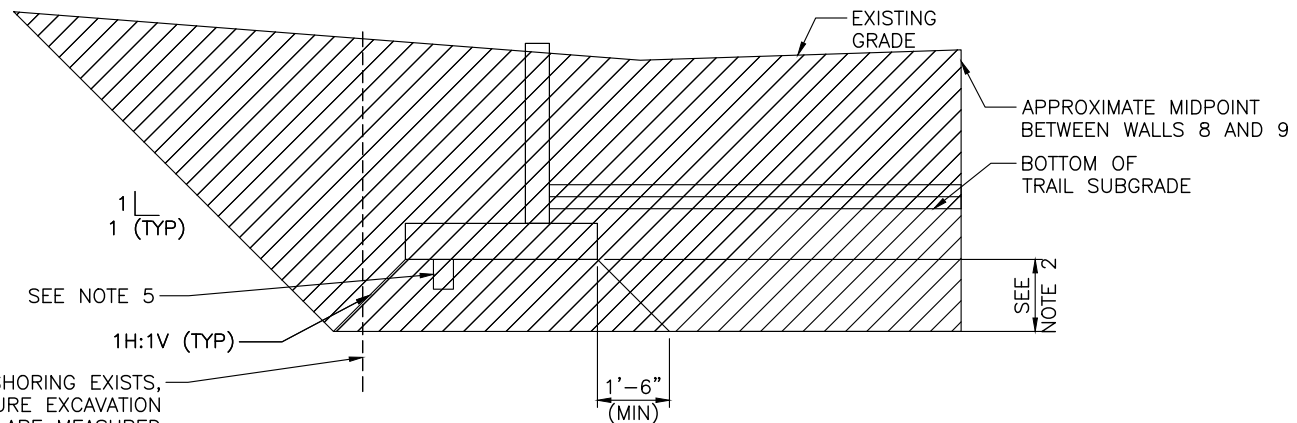


EXCAVATION DIAGRAM
(APPLICABLE TO WALLS 2, 4, 5, 6 AND 7)

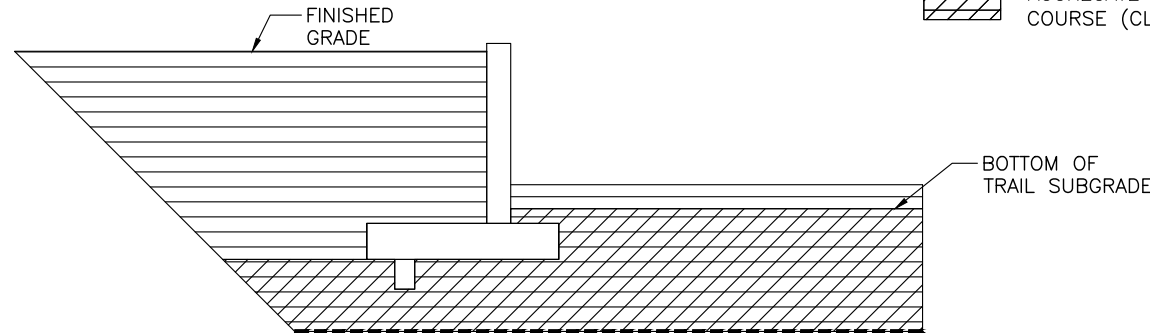


BACKFILL DIAGRAM
(APPLICABLE TO WALLS 2, 4, 5, 6 AND 7)

STRUCTURE EXCAVATION
 STRUCTURE BACKFILL (CLASS 1)
 AGGREGATE BASE COURSE (CLASS 2)



EXCAVATION DIAGRAM
(APPLICABLE TO WALLS 8 AND 9)



BACKFILL DIAGRAM
(APPLICABLE TO WALLS 8 AND 9)

STRUCTURE EXCAVATION
 STRUCTURE BACKFILL (CLASS 1)
 AGGREGATE BASE COURSE (CLASS 2)

NOTES:

- UNLESS SHOWN OTHERWISE IN THE PLANS, THIS DRAWING GIVES THE MINIMUM EXTENT OF STRUCTURE EXCAVATION AND BACKFILL. THE CONTRACTOR MAY ELECT TO EXTEND THE STRUCTURE EXCAVATION AND STRUCTURE BACKFILL BEYOND THE LIMITS SHOWN HERE. ANY ADDITIONAL EXCAVATION OR BACKFILL BEYOND THESE LIMITS WILL NOT BE MEASURED NOR PAID FOR.
- OVEREXCAVATE AT A 1H:1V TO GRAVEL (APPROXIMATELY ELEVATION 5822) OR 3'-0", WHICHEVER IS LESS. IF BOTTOM OF FOOTING IS IN GRAVEL, NO OVEREXCAVATION IS REQUIRED. THIS DEPTH IS REPRESENTED IN THE WALL PLAN & ELEVATION SHEETS AS THE APPROXIMATE MINIMUM STRUCTURE EXCAVATION DEPTH. THIS DEPTH DOES NOT CONSIDER THE TRENCH REQUIRED FOR THE KEY.
- CONCRETE LANDSCAPE WALLS AND STONE LANDSCAPE WALLS ARE NOT SHOWN IN THESE DIAGRAMS. ALL EXCAVATION FOR CONCRETE LANDSCAPE WALLS IS MEASURED AND PAID FOR WITH THE ADJACENT STRUCTURAL WALL. EXCAVATION AND BACKFILL FOR STONE LANDSCAPE WALLS WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
- WHERE CONCRETE LANDSCAPE WALLS EXIST IN FRONT OF STRUCTURAL WALLS, PROVIDE AGGREGATE BASE COURSE (CLASS 2) UP TO BOTTOM OF LANDSCAPE WALL FOOTING AND IN FRONT OF THE LANDSCAPE WALL TO THE BOTTOM OF THE TRAIL SUBGRADE. PROVIDE STRUCTURE BACKFILL (CLASS 1) BEHIND THE CONCRETE LANDSCAPE WALL FROM THE BOTTOM OF THE FOOTING UP TO THE BOTTOM OF TOPSOIL. AGGREGATE BASE COURSE (CLASS 2) BELOW LANDSCAPE WALL FOOTING IS MEASURED AND PAID FOR WITH THE ADJACENT STRUCTURAL WALL. STRUCTURE BACKFILL (CLASS 1) AND AGGREGATE BASE COURSE (CLASS 2) IS MEASURED AND PAID FOR WITH THE CONCRETE LANDSCAPE WALL.
- WHEN KEY EXTENDS BELOW APPROXIMATE MINIMUM STRUCTURE EXCAVATION DEPTH, ADDITIONAL VOLUME OF STRUCTURE EXCAVATION WILL BE MEASURED AND PAID FOR AS FOLLOWS:
 LENGTH = LENGTH OF KEY
 WIDTH = WIDTH OF KEY PLUS 1'-0"
 HEIGHT = DISTANCE FROM BOTTOM OF KEY TO APPROXIMATE MINIMUM STRUCTURE EXCAVATION DEPTH SHOWN IN THE PLAN & ELEVATION SHEETS

NO ADDITIONAL BACKFILL FOR THE KEY WILL BE MEASURED AND PAID FOR.

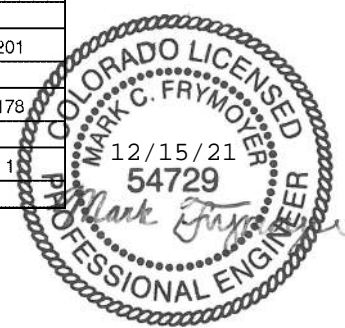


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Last Modification Date: 06/30/21		1	12/22/21	ELIMINATED WALLS 1 & 3	CWG	Revised:	Engineer: MCF	Structure Numbers: R082A001746LRA	23687 / 23975
Drawing File Name: W01Admin						Void:	Drawn By: CWG	Sheet Subset: WALLS	Sheet Number 117
Autocad Ver. 2020 Scale: As Shown							Sheet Subset: WALLS	Subset Sheets: W03 of 43	
SGM Project No.: 2020-544.001	Quality Control: MCF								



SUMMARY OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	(R-1)	RGT WALL 2	(R-1)	27TH LWC 1	27TH WALL 4	RGT/27TH WALL 5	RGT/SH82 WALL 6	RGT/SH82 LWC 3	27TH LWR 2	RGT LWR 4	RGT WALL 7	RGT LWC 5	SH82 WALL 8	SH82 WALL 9	SH82 LWC 6	SH82 LWC 7	STAIRS	TOTAL	
206-00000	STRUCTURE EXCAVATION	CY		1965			1180	483	836				3145		3238	1557				12404	
206-00100	STRUCTURE BACKFILL (CLASS 1)	CY		1030		68	440	163	413	32			1567	27	1661	866	87	30		6384	
206-01783	SHORING (AREA 3)	LS													1					1	
304-02000	AGGREGATE BASE COURSE (CLASS 2)	TON		440		25	180	40	24	20			750	36	1133	567	60	49		3324	
420-00133	GEOTEXTILE (SEPARATOR) (CLASS 2)	SY		85									219		550	356	19	21		1250	
			0	(R-1)	0	(R-1)														0	(R-1)
504-08050	STONE LANDSCAPE WALL	SF									260	83								343	
514-00018	PEDESTRIAN RAILING (18 INCH)	LF													209					209	
514-00042	PEDESTRIAN RAILING (42 INCH)	LF		10				10	10						85					115	
			0	(R-1)																0	(R-1)
515-00120	WATERPROOFING (MEMBRANE)	SY													12					12	
517-00000	WATERPROOFING (ASPHALT)	SY				30				23				25	30		25	16		149	
518-00102	WATERSTOP	LF		25			26	15	29				31		51	29				206	
601-03000	CONCRETE CLASS D	CY																	8.2	8.2	
601-03050	CONCRETE CLASS D (WALL)	CY		139.8		17.5	42.9	14.0	42.2	11.0			182.2	11.9	159.7	79.3	13.9	9.3		723.7	
601-03055	CONCRETE CLASS D (WALL) (SPECIAL)	CY		78.4			35.8	10.6	31.1				111.4		131.6	94.9				493.8	
601-40302	STRUCTURAL CONCRETE COATING (ANTI-GRAFFITI)	SF		1887			1192	368	640				2553		4408	1618				12666	
601-50020	PORCELAIN WALL TILE	SF				365				256				287			315	209		1432	
602-00000	REINFORCING STEEL	LB		31600		2200	11900	4850	11300	1300			40700	1500	64100	28300	1800	1400	1100	202050	
602-00020	REINFORCING STEEL (EPOXY COATED)	LB													700					700	
605-83002	GEOCOMPOSITE DRAIN WITH PIPE	SY		139		30	90	29	53	23			195	25	312	156	25	16		1093	
606-01402	TRANSITION TYPE BR10B-GR3	EACH														1				1	
606-11035	BRIDGE RAIL TYPE 10 MASH	LF														201				201	
607-32100	FENCE STEEL SNOW	LF														178				178	
621-00650	PEDESTRIAN STAIR STRUCTURE	LS																	1	1	

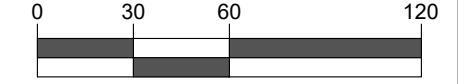


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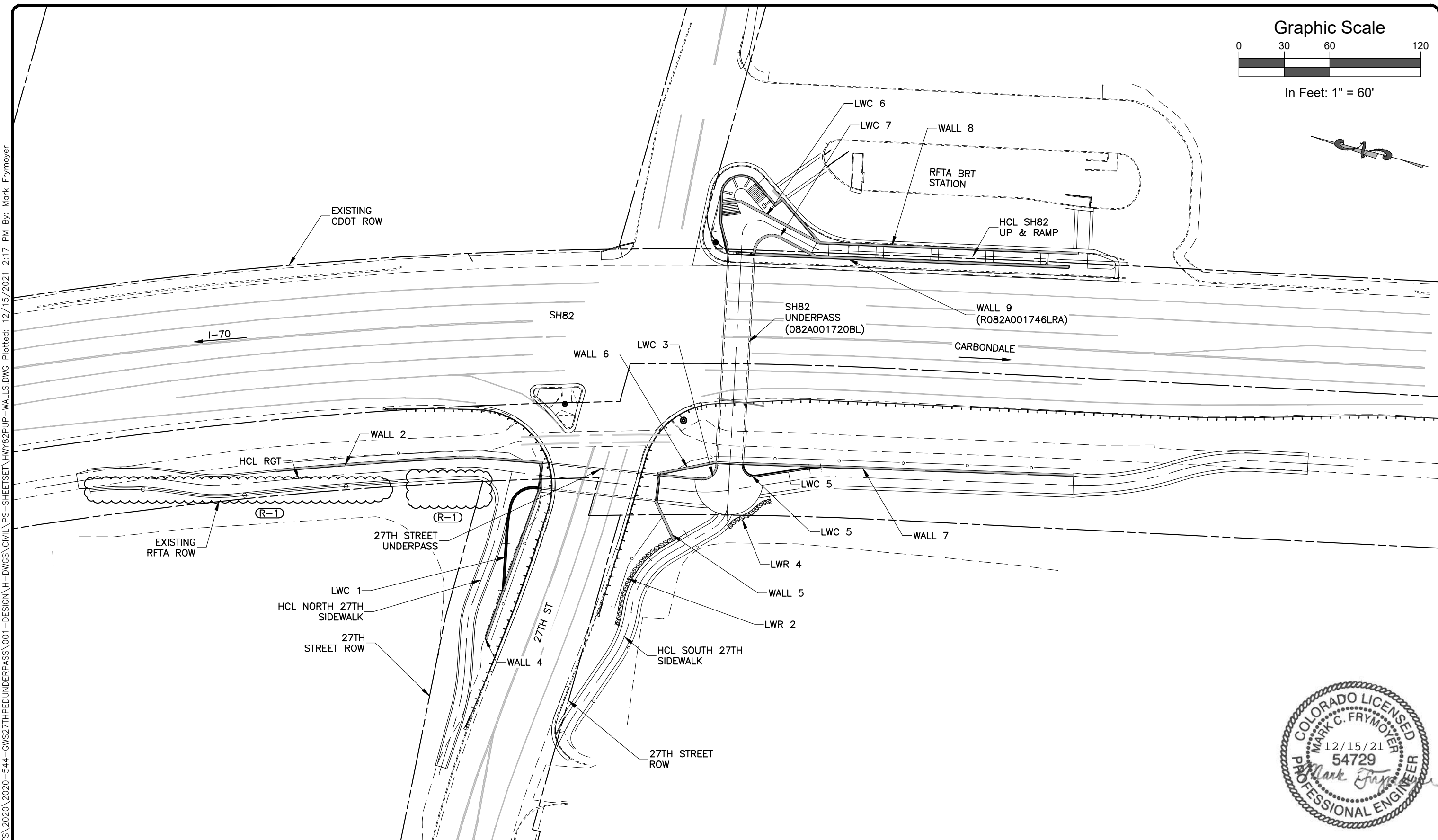
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Rev.	Date	Comments	Init.																						
1	12/22/21	ELIMINATED WALLS 1 & 3	CWG																						

Graphic Scale



In Feet: 1" = 60'



Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	09/21	Designed By	09/21	Quantities By	09/21
Checked By	09/21	Checked By	09/21	Checked By	09/21



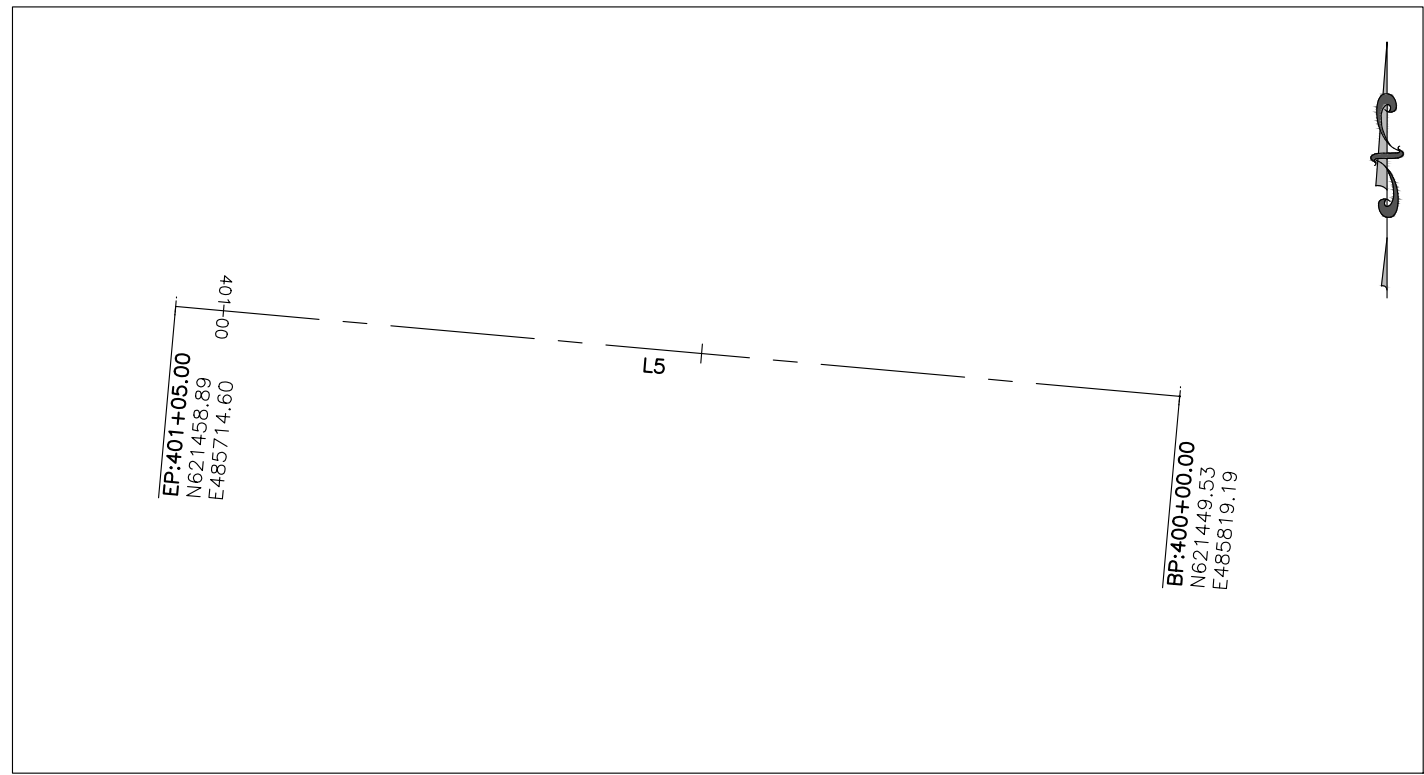
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Last Modification Date:	06/30/21	1	12/22/21	Revised:		MCF		23687 / 23975	
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Scale:	As Shown					R082A001746LRA			
SGM Project No.:	2020-544.001					Sheet Subset: WALLS		Subset Sheets: W05 of 43	
Quality Control:	MCF								



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Checked By	AMC/MCF	Detailed By	AMC/MCF	Quantities By	MWF/MCF
Designed By	AMC/MCF	Checked By	AMC/MCF	Checked By	MWF/MCF



WALL 4 ALIGNMENT
SCALE: 1" = 20'

R-1

R-1



Computer File Information	
Print Date:	12/15/21
Last Modification Date:	12/15/21
Drawing File Name:	Hwy82PUP-WallGeometryPlan
Autocad Ver.	2020 Scale: As Shown
SGM Project No.:	2020-544.001 Quality Control: MCF

Sheet Revisions			
Rev.	Date	Comments	Init.
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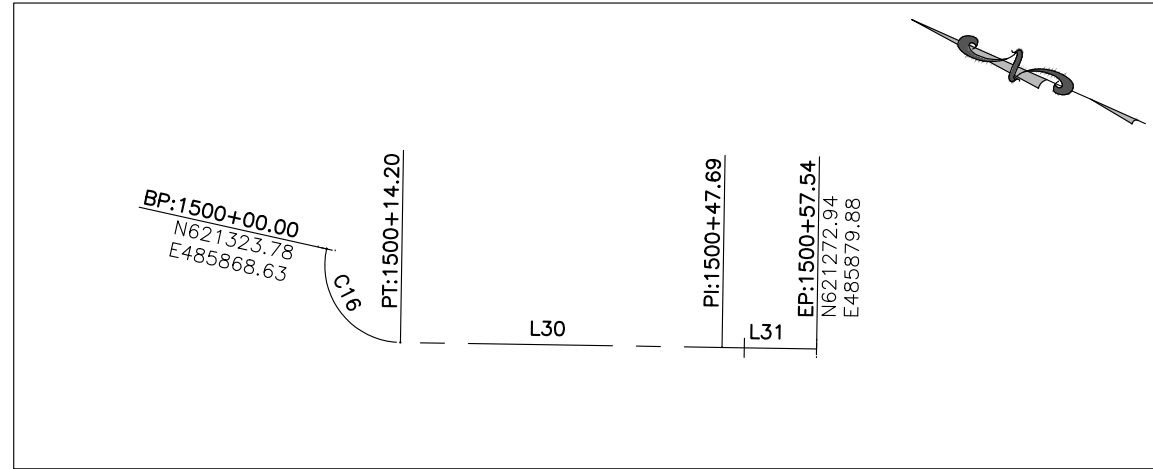
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27TH ST AND SH82 PEDESTRIAN UNDERPASS WALL GEOMETRY PLAN (1)			
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Drawn By:	AMC		
Sheet Subset:	WALLS	Subset Sheets:	W06 of 43

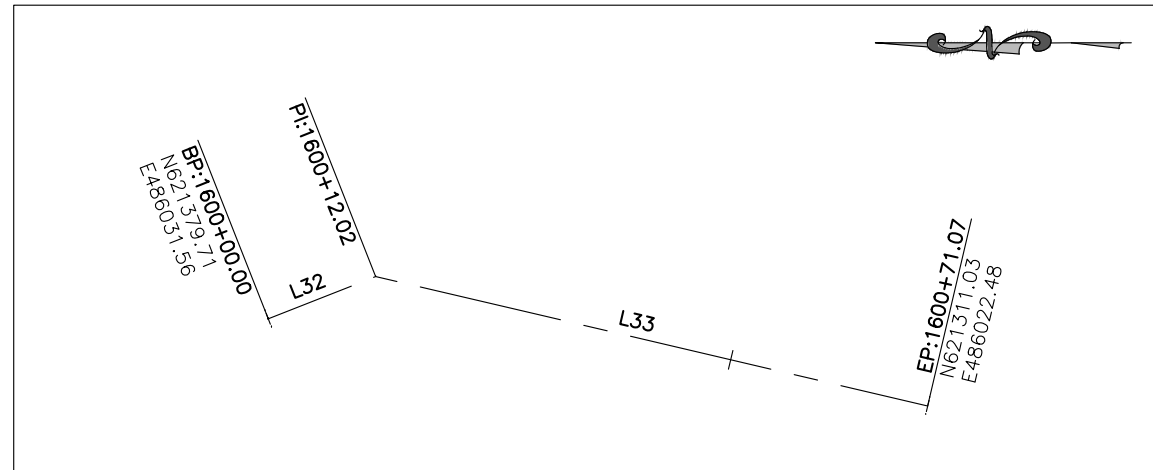
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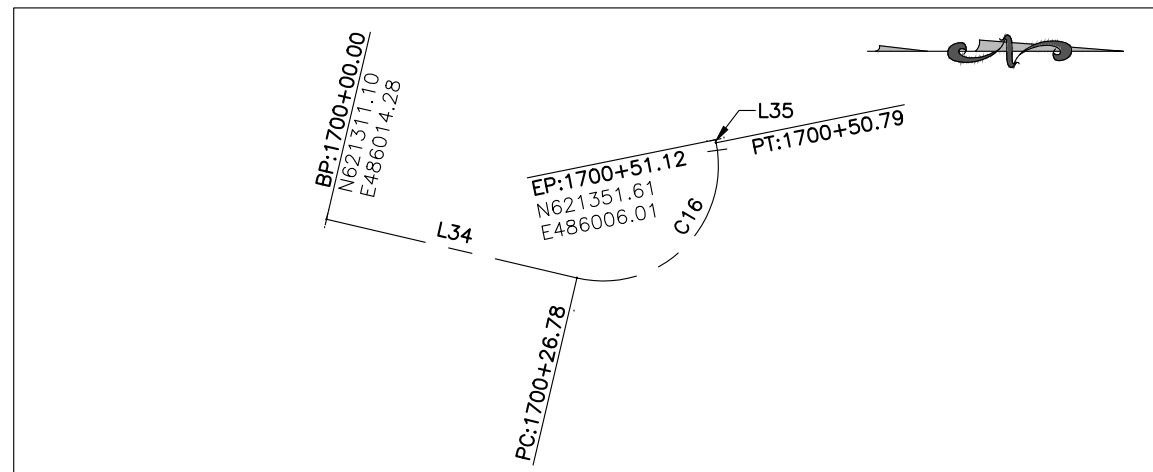
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Checked By	AMC/MCF	09/21	AMC/MCF	09/21	MLF/MCF



LWC 5 ALIGNMENT
SCALE: 1" = 20'



LWC 6 ALIGNMENT
SCALE: 1" = 20'



LWC 7 ALIGNMENT
SCALE: 1" = 20'

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C4	2857.37'	120.41'	60.21'	120.40'	S18°40'23"E	2° 24' 52"
C5	107.67'	13.22'	6.62'	13.21'	S13°56'13"E	7° 02' 01"
C11	15.00'	21.58'	13.14'	19.77'	N49°44'40"W	82° 26' 36"
C12	69.00'	9.77'	4.89'	9.76'	N88°21'25"E	8° 06' 37"
C13	56.00'	49.99'	26.80'	48.35'	S70°07'26"E	51° 08' 54"
C14	92.00'	7.68'	3.84'	7.68'	S10°52'56"E	4° 46' 57"
C15	10.00'	15.39'	9.69'	13.92'	S57°21'45"E	88° 10' 39"
C16	8.00'	14.20'	9.82'	12.41'	S27°42'53"W	101° 40' 05"
C16	12.00'	24.01'	18.71'	20.20'	N44°07'26"W	114° 39' 17"
C17	12.50'	30.11'	32.56'	23.34'	S34°04'59"E	137° 59' 54"

(R-1)

(R-1)

LINE	BEARING	LENGTH
L2	S10°03'09"E	41.24'
L3	S8°29'28"E	0.50'
L5	N84°53'08"W	105.00'
L6	N50°32'12"E	28.11'
L7	S8°29'29"E	1.00'
L8	S25°53'28"E	38.51'
L9	S12°31'43"E	218.00'
L10	N62°56'03"E	19.00'
L11	N76°55'03"E	18.42'
L12	S34°54'57"W	20.00'
L13	S55°07'02"E	6.00'
L14	S34°54'57"W	37.67'
L15	S12°13'40"E	176.89'
L16	S12°13'40"E	40.35'
L17	S12°13'40"E	178.70'
L18	S89°02'02"W	4.14'
L19	S85°41'42"W	4.00'
L20	S83°19'07"W	4.00'
L21	S79°10'37"W	45.15'
L22	N84°18'07"E	3.04'
L23	S44°32'59"E	16.53'
L24	S8°29'28"E	20.21'
L25	N78°32'56"E	1.18'
L26	N31°35'22"W	5.85'
L27	N53°46'02"W	10.80'
L28	N41°10'12"W	11.51'
L29	N62°34'20"W	5.35'
L30	S23°07'10"E	33.50'
L31	S23°07'10"E	9.84'
L32	S21°31'57"E	12.02'
L33	S13°12'12"W	59.05'
L34	N13°12'12"E	26.78'
L35	S78°32'56"W	0.33'



Computer File Information Print Date: 12/15/21 Last Modification Date: 12/15/21 Drawing File Name: Hwy82PUP-WallGeometryPlan Autocad Ver. 2020 Scale: As Shown SGM Project No.: 2020-544.001 Quality Control: MCF		Sheet Revisions <table border="1"> <thead> <tr> <th>Rev.</th> <th>Date</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12/22/21</td> <td>ELIMINATED WALLS 1&3</td> <td>MWM</td> </tr> </tbody> </table>		Rev.	Date	Comments	Init.	1	12/22/21	ELIMINATED WALLS 1&3	MWM					As Constructed No Revisions: Revised: Void:		27TH ST AND SH82 PEDESTRIAN UNDERPASS WALL GEOMETRY PLAN (4) Engineer: MCF Drawn By: AMC Sheet Subset: WALLS		Project No./Code MTF M535-007 / 008 23687 / 23975 Sheet Number 123	
Rev.	Date	Comments	Init.																		
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(R-1) WALL 1 HAS BEEN
REMOVED FROM
THE PROJECT.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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Checked By MLF	09/21	Checked By MCF	09/21	Checked By MLF/MCF	09/21

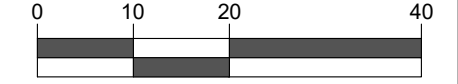
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Computer File Information		Sheet Revisions				As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS WALL 1 PLAN & ELEVATION		Project No./Code	
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Drawing File Name: Hwy82PUP-Walls						Void:	Drawn By: CWG		Sheet Number 124		
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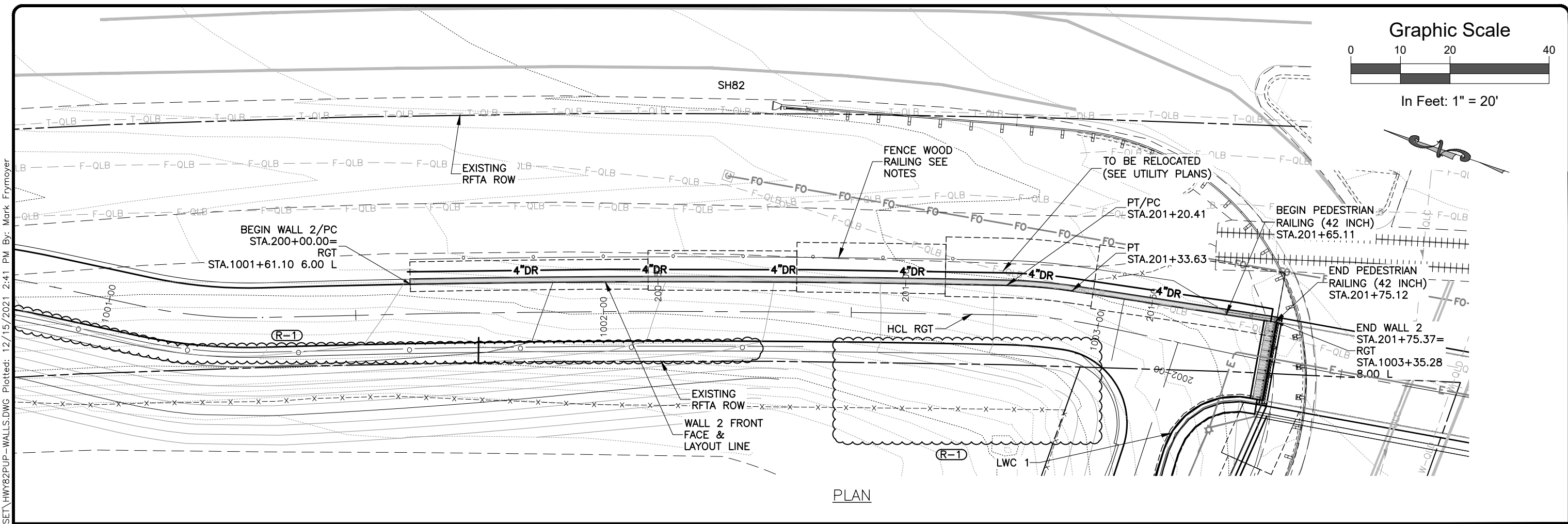


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Graphic Scale

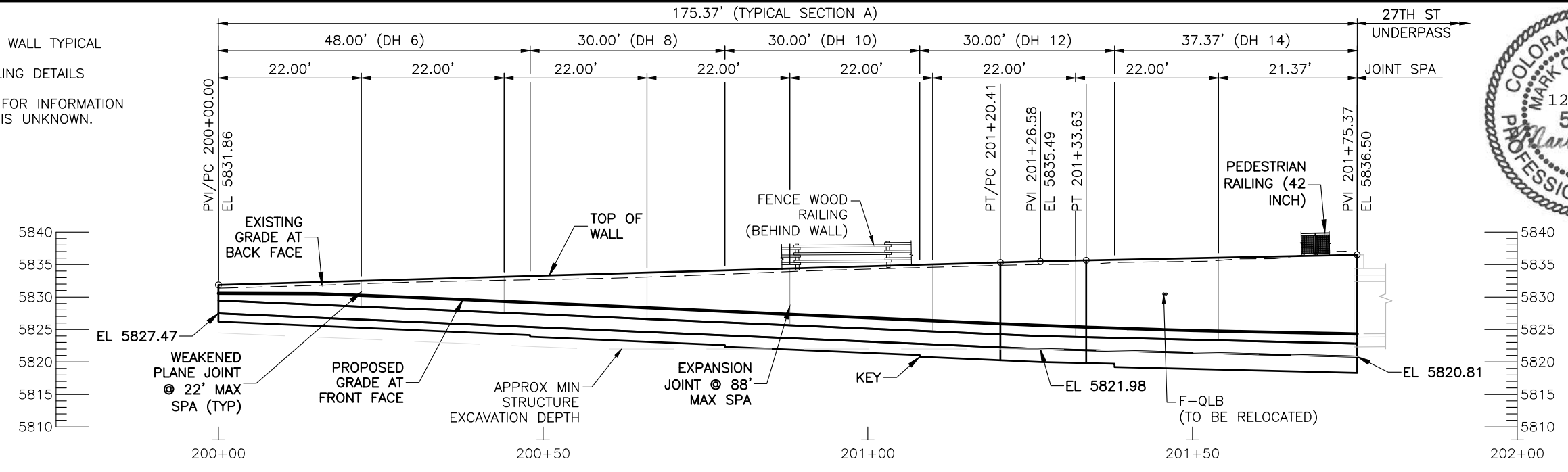


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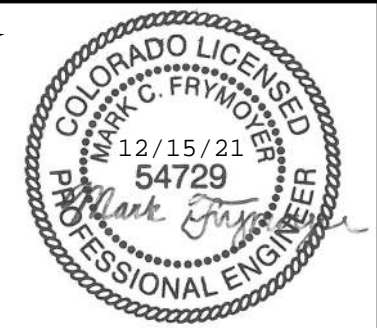


PLAN

- NOTE:**
- SEE SHEETS 138 THROUGH 143 FOR WALL TYPICAL SECTIONS.
 - SEE SHEET 9 FOR FENCE WOOD RAILING DETAILS
 - SEE SHEET 72 FOR FENCE LAYOUT.
 - UTILITY F-QLB SHOWN IN ELEVATION FOR INFORMATION ONLY. ACTUAL ELEVATION OF UTILITY IS UNKNOWN.



ELEVATION



Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
09/21	CWG	09/21	CWG	09/21	CWG
09/21	MCF	09/21	MCF	09/21	MCF

Computer File Information	
Print Date:	12/15/21
Last Modification Date:	06/30/21
Drawing File Name:	Hwy82PUP-Walls
Autocad Ver.:	2020
Scale:	As Shown
SGM Project No.:	2020-544.001
Quality Control:	MCF

Sheet Revisions			
Rev.	Date	Comments	Init.
1	12/22/21	ELIMINATED WALLS 1 & 3	CWG

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As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS		Project No./Code	
No Revisions:		WALL 2 PLAN & ELEVATION		MTF M535-007 / 008	
Revised:		Engineer:	MCF	Structure Numbers:	23687 / 23975
Void:		Drawn By:	CWG	Sheet Subset:	W11 of 43
				Sheet Number:	125

(R-1) WALL 3 HAS BEEN
REMOVED FROM
THE PROJECT.

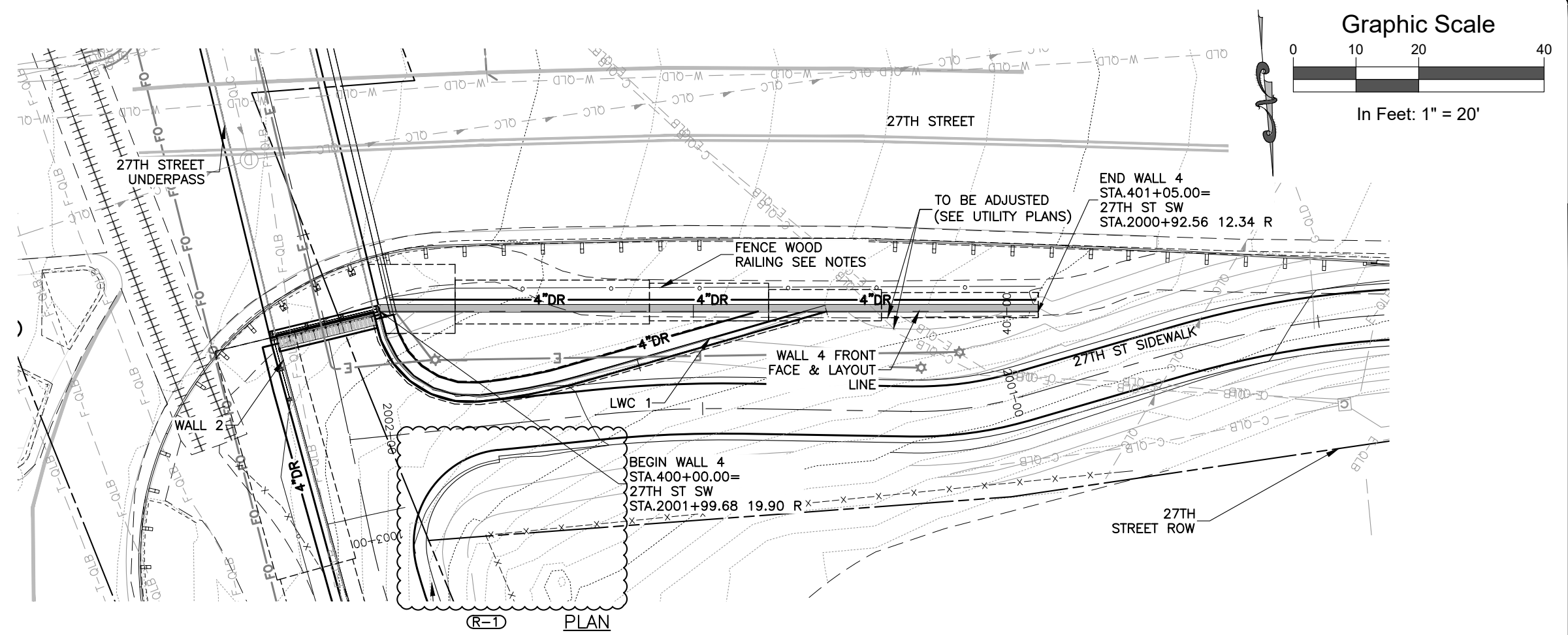
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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By MCF	09/21	Detailed By CWG	09/21	Quantities By CWG/MLF	09/21
Checked By MLF	09/21	Checked By MCF	09/21	Checked By MLF/MCF	09/21

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Computer File Information		Sheet Revisions				As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS WALL 3 PLAN & ELEVATION		Project No./Code	
Print Date: 12/15/21		Rev.	Date	Comments	Init.	No Revisions:			MTF M535-007 / 008		
Last Modification Date: 06/30/21		1	12/22/21	ELIMINATED WALLS 1 & 3	CWG	Revised:	Engineer: MCF	Structure Numbers	23687 / 23975		
Drawing File Name: Hwy82PUP-Walls						Void:	Drawn By: CWG		Sheet Number 126		
Autocad Ver. 2020 Scale: As Shown							Sheet Subset: WALLS	Subset Sheets: W12 of 43			
SGM Project No.: 2020-544.001	Quality Control: MCF										

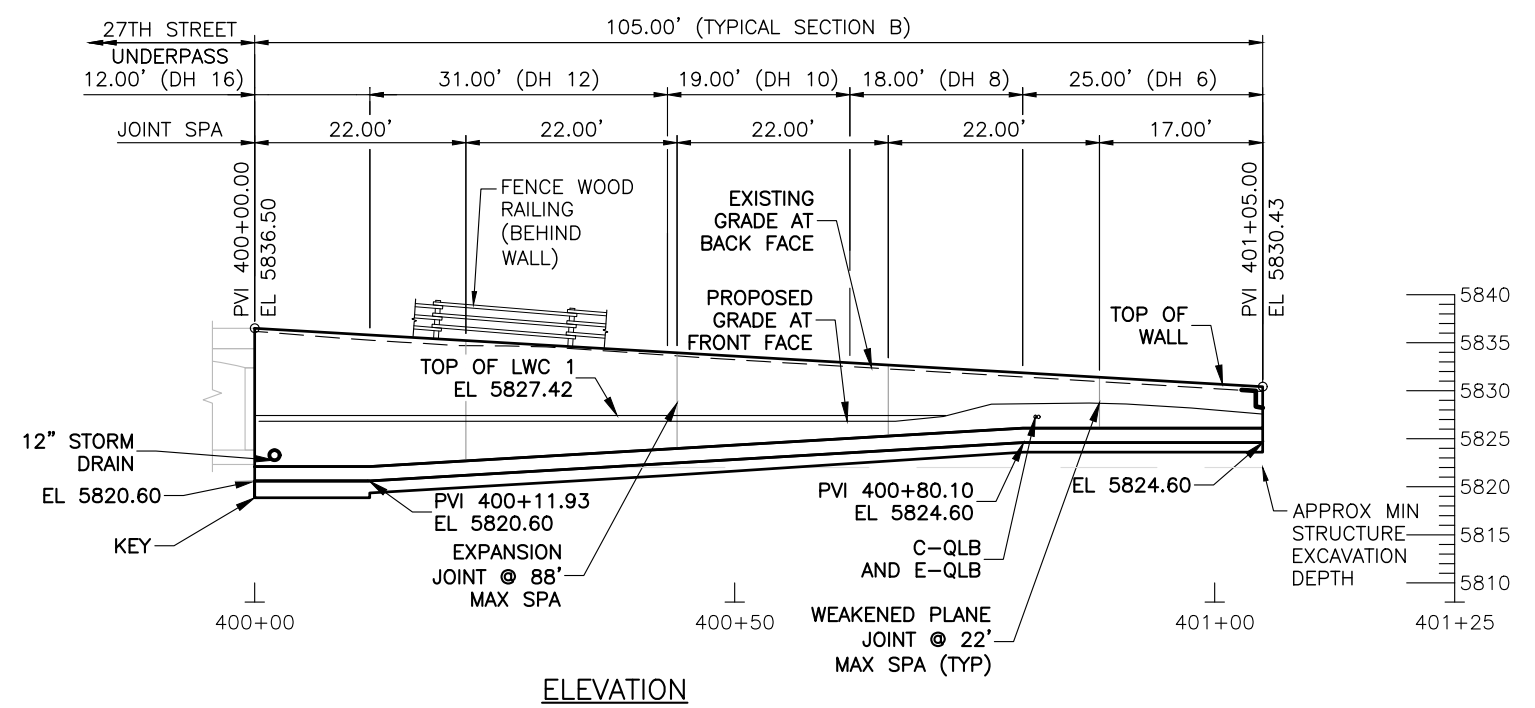


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NOTES:

1. SEE SHEETS 138 THROUGH 143 FOR WALL TYPICAL SECTIONS.
2. SEE SHEET 9 FOR FENCE WOOD RAILING DETAILS
3. SEE SHEET 72 FOR FENCE LAYOUT.
4. UTILITIES C-QLB AND E-QLB SHOWN IN ELEVATION FOR INFORMATION ONLY. ACTUAL ELEVATION OF UTILITY IS UNKNOWN.



Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	09/21	CWG	09/21	Quantities By	CWG/MLF
Checked By	09/21	MCF	09/21	Checked By	MLF/MCF

Computer File Information	
Print Date:	12/15/21
Last Modification Date:	06/30/21
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Autocad Ver. 2020	Scale: As Shown
SGM Project No.:	2020-544.001
Quality Control:	MCF

Sheet Revisions			
Rev.	Date	Comments	Init.
1	12/22/21	ELIMINATED WALLS 1 & 3	CWG

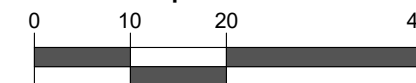
RFTA
Roaring Fork Transportation Authority

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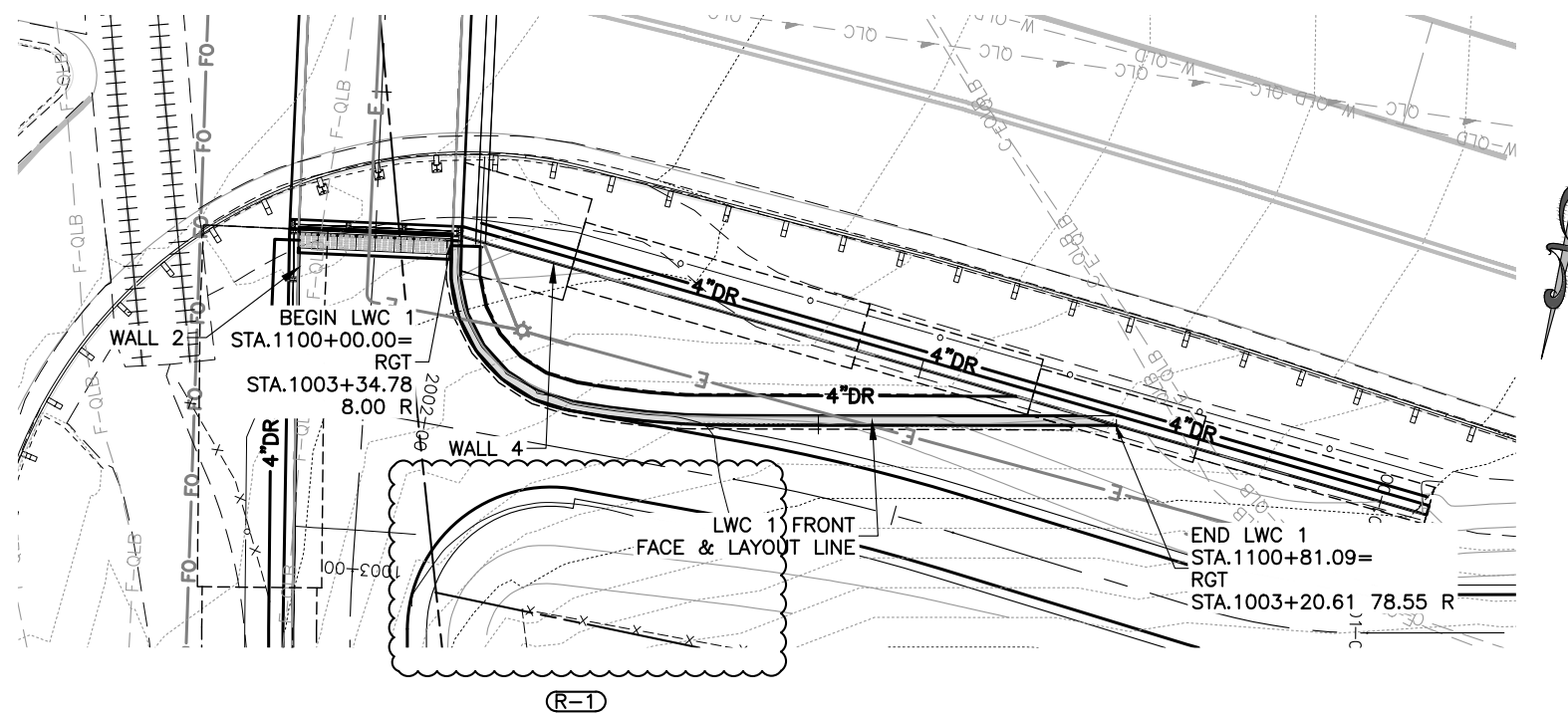
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No Revisions:				MTF M535-007 / 008	
Revised:		Engineer:	MCF	Structure Numbers:	23687 / 23975
Void:		Drawn By:	CWG	Sheet Subset:	W13 of 43
		Sheet Subset:	WALLS	Subset Sheets:	Sheet Number 127

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Graphic Scale



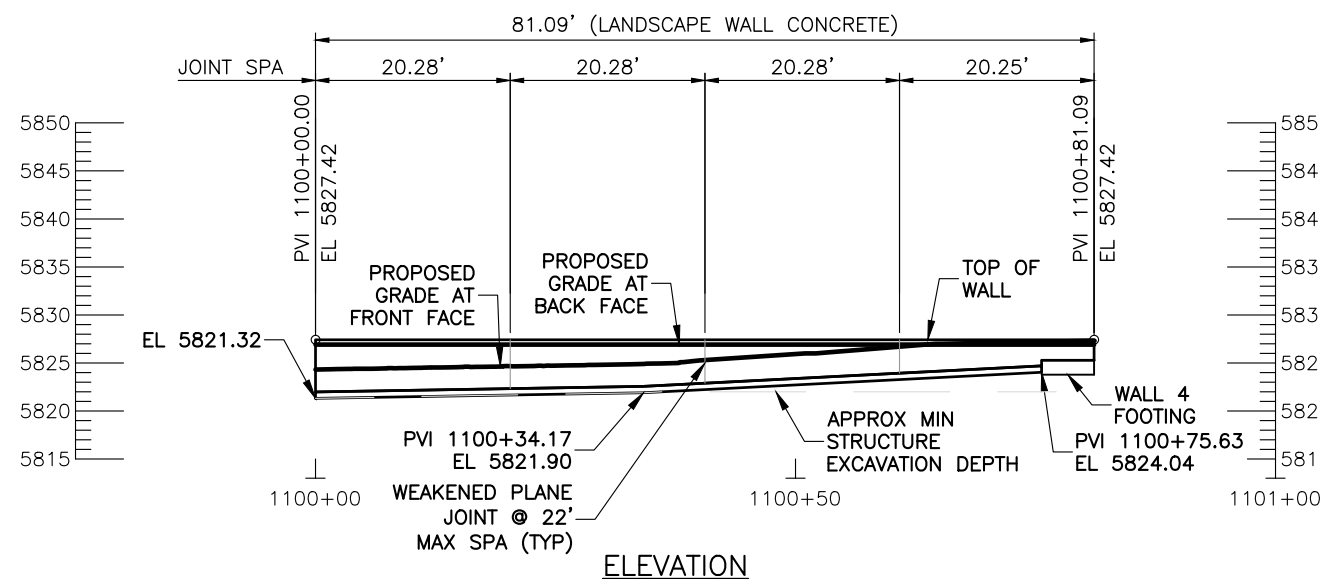
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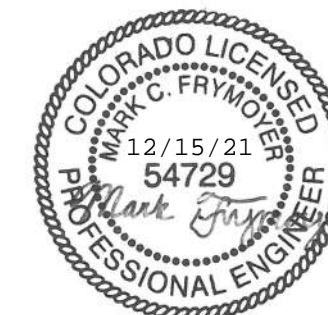
PLAN

NOTES:

- 1. SEE SHEETS 138 THROUGH 143 FOR WALL TYPICAL SECTIONS.



ELEVATION



Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
CWG	09/21	CWG	09/21	CWG/MLF	09/21
MCF	09/21	MCF	09/21	MLF/MCF	09/21

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Computer File Information		Sheet Revisions				As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS LWC 1 PLAN & ELEVATION			Project No./Code	
Print Date:	12/15/21	Rev.	Date	Comments	Init.	No Revisions:		Engineer:			MTF M535-007 / 008	
Last Modification Date:	06/30/21	1	12/22/21	ELIMINATED WALLS 1 & 3	CWG	Revised:		MCF		23687 / 23975		
Drawing File Name:	Hwy82PUP-Walls					Void:		CWG		Sheet Number 134		
Autocad Ver.	2020 Scale: As Shown					Sheet Subset:		WALLS		Subset Sheets: W20 of 43		
SGM Project No.:	2020-544.001					Quality Control:		MCF				



Engineer:	MCF	Structure Numbers:	
Drawn By:	CWG	Sheet Subset:	WALLS
Sheet Subset:	WALLS	Subset Sheets:	W20 of 43

(R-1) WALL TYPE BOULDER
HAS BEEN REMOVED
FROM THIS PROJECT

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By CWG	09/21	Detailed By CWG	09/21	Quantities By CWG/MLF	09/21
Checked By MCF	09/21	Checked By MCF	09/21	Checked By MLF/MCF	09/21

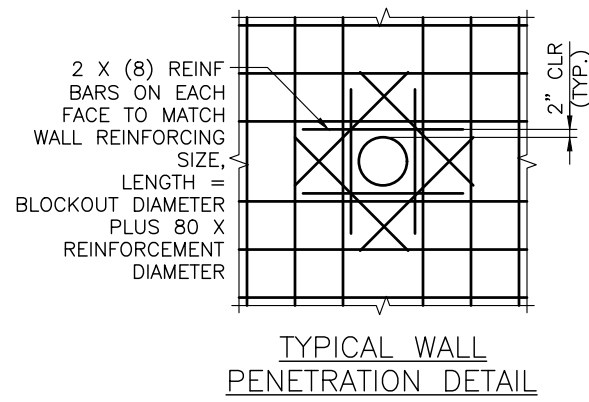
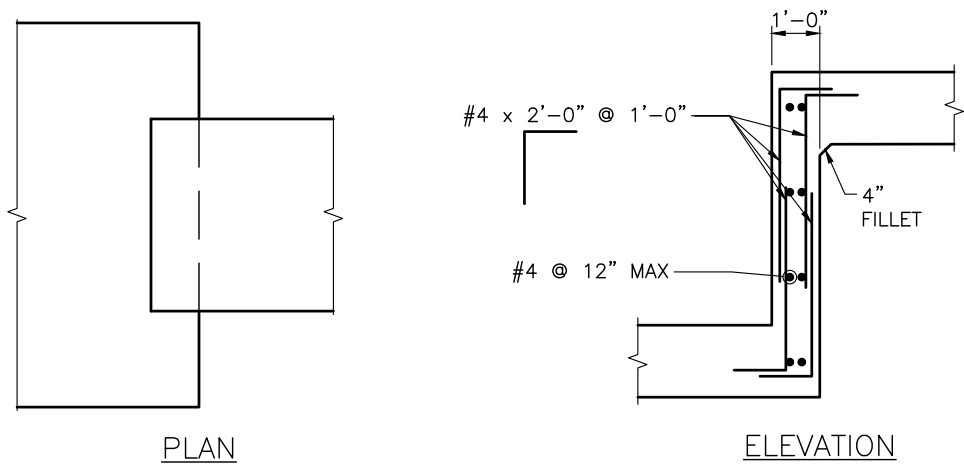
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Computer File Information		Sheet Revisions				As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS WALL DETAILS (3)		Project No./Code	
Print Date: 12/15/21		Rev.	Date	Comments	Init.	No Revisions:			MTF M535-007 / 008		
Last Modification Date: 12/15/21		1	12/22/21	ELIMINATED WALLS 1 & 3	CWG	Revised:	Engineer:	MCF	Structure		
Drawing File Name: W11typ						Void:	Drawn By:	CWG	Numbers	23687 / 23975	
Autocad Ver. 2020 Scale: 1/4" = 1'							Sheet Subset:	WALLS	Subset Sheets:	W26 of 43	
SGM Project No.: 2020-544.001	Quality Control: MCF									Sheet Number	140

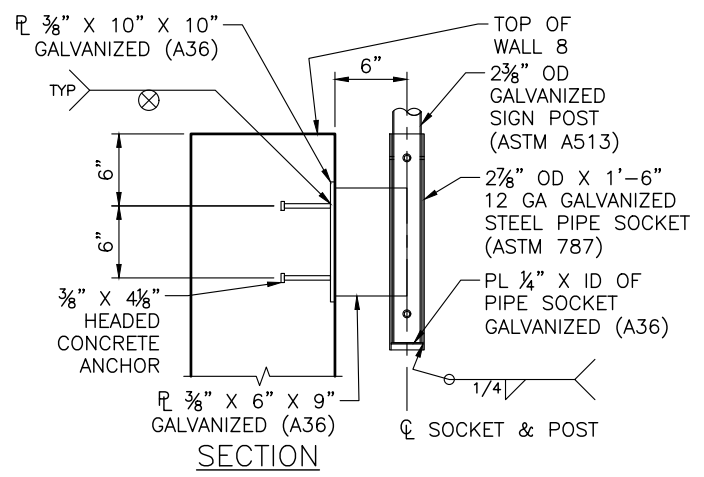
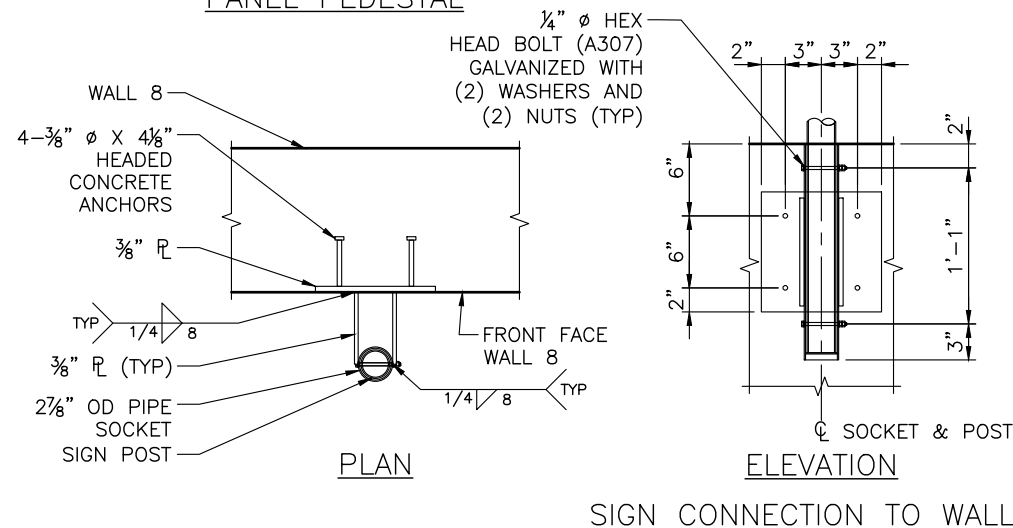
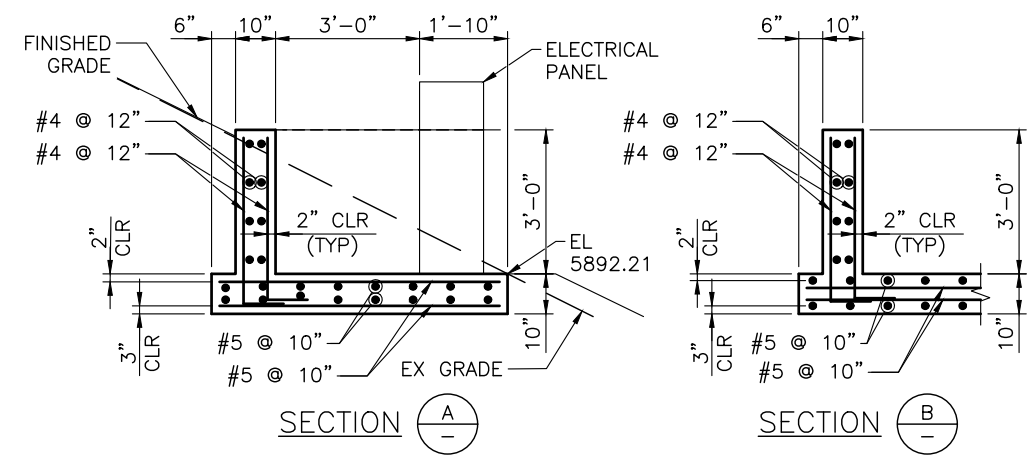
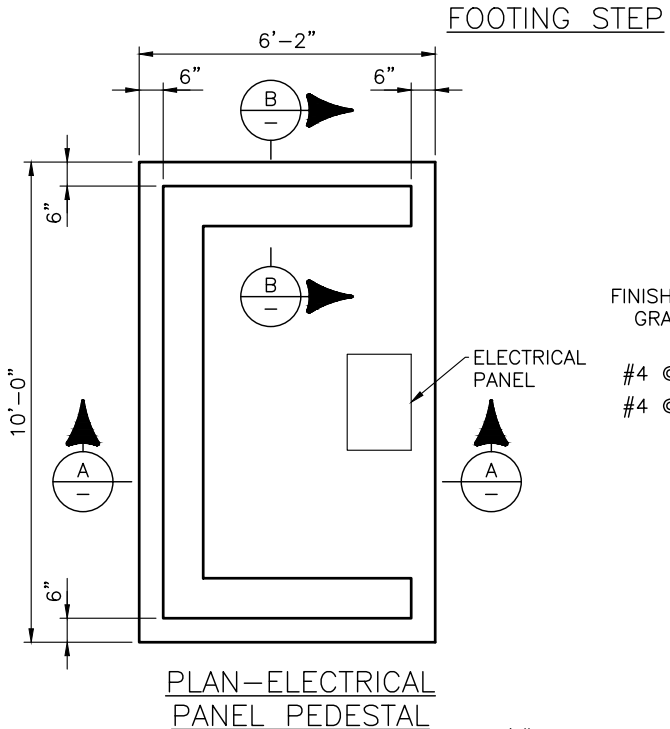


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- NOTES:**
1. PEDESTAL CONCRETE SHALL BE CLASS D.
 2. ALL REINFORCING SHALL BE GRADE 60.
 3. ALL CONCRETE, REINFORCEMENT, AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE ELECTRICAL PANEL PEDESTAL WILL BE PAID FOR UNDER THE QUANTITY CONCRETE FOUNDATION PAD (EACH).



- NOTES:**
1. HEADED CONCRETE ANCHOR SHALL MEET STANDARD SPECIFICATIONS SECTION 509.12.
 2. SEE STANDARD PLAN S-614 FOR DETAILS NOT SHOWN.

(R-1)



Computer File Information		Sheet Revisions		As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS WALL DETAILS (4)		Project No./Code	
Print Date: 12/15/21	Rev. 1	Date: 12/22/21	Comments: ELIMINATED WALLS 1 & 3	No Revisions:		Engineer: MCF		MTF M535-007 / 008	
Last Modification Date: 12/15/21				Revised:		Structure Numbers: R082A001746LRA		23687 / 23975	
Drawing File Name: W11typ				Void:		Sheet Subset: WALLS		Sheet Number: 141	
Autocad Ver. 2020 Scale: NTS						Subset Sheets: W27 of 43			
SGM Project No.: 2020-544.001									



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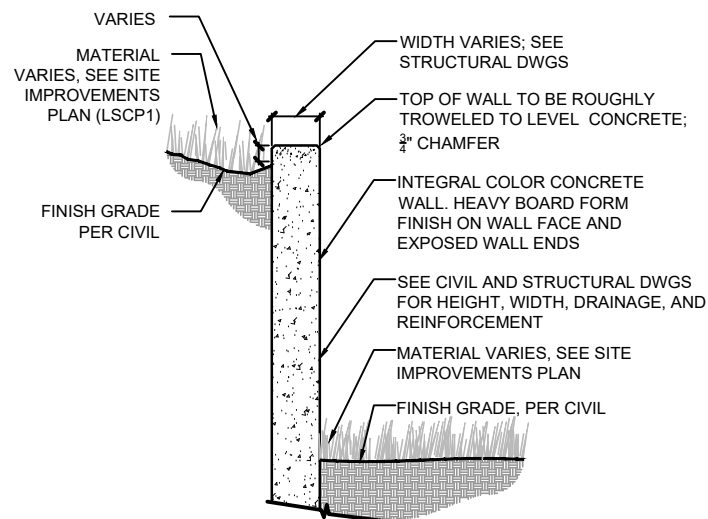


IMAGE OF HEAVY BOARD FORM FINISH TEXTURE



IMAGE OF HEAVY BOARD FORM FINISH TEXTURE



IMAGE OF FINISH ALONG EXPOSED WALL END



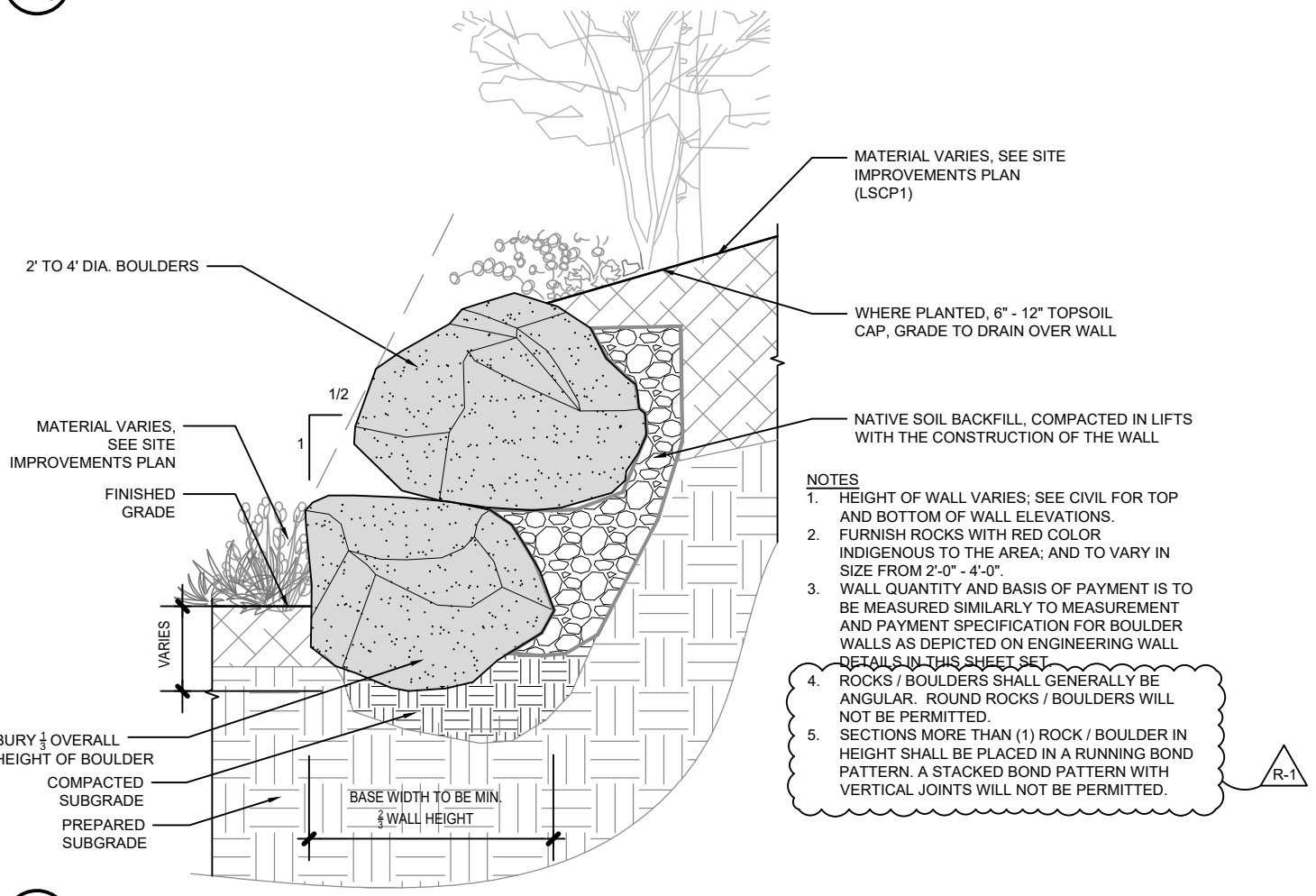
IMAGE OF DESIRED (INTEGRAL) COLOR

- NOTES:**
1. IMAGES PROVIDED TO ILLUSTRATE DESIGN INTENT. CONTRACTOR TO PROVIDE MOCK-UP OF WALL WITH INTEGRAL COLOR AND HEAVY BOARD FORM FINISH FOR FINAL APPROVAL.
 2. INTENT OF THE INTEGRAL COLOR IS TO HAVE THE SAME DEPTH AND HUE AS RED SANDSTONE. COLOR TO BE DAVIS COLOR BRICK RED 160; APPROXIMATE FEDERAL STANDARD COLOR REFERENCES: 30109, 10091.

1
W28

CONCRETE WALL TYPICAL

1/4" = 1'-0"



2
W28

STONE LANDSCAPE WALL

3/8" = 1'-0"



Computer File Information		Sheet Revisions			As Constructed	27TH ST AND SH82 PEDESTRIAN UNDERPASS		Project No./Code
WALL SITE DETAILS (1)		Rev.	Date	Comments		Init.	Designer:	
Print Date:	12/20/21	1	12.22.21	ELIMINATED WALLS 1 & 3		JJ		MTF M535-007 / 008
Last Modification Date:	12/22/21					DB		Code: 23687 / 23975
Drawing File Name:	UNDERPASS_L-3-0_DETAILS rev numbers							Sheet Number 142
Autocad Ver.	2020 Scale: As Shown							
SGM Project No.:	2020-544.001							
Quality Control:	XX							



DHM DESIGN

No Revisions:		27TH ST AND SH82 PEDESTRIAN UNDERPASS	Project No./Code
Revised:		WALL SITE DETAILS (1)	MTF M535-007 / 008
Void:		Designer: JJ	Code: 23687 / 23975
		Structure Numbers: DB	Sheet Number 142
		Sheet Subset: WALLS	Subset Sheets: W28 of 43

1. SITE DESCRIPTION

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

- A. **PROJECT SITE LOCATION:** The project is located in Glenwood Springs, CO at the intersection of SH82 and 27th St. Location or address of construction office: _____
- B. **PROJECT SITE DESCRIPTION:** The project includes a trail reconfiguration, drainage improvements and construction of two underpasses underneath 27th St. and SH82.
- C. **PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:**
Clearing and grubbing.
East Portal Construction and East half of SH82 Underpass Construction.
West half of SH82 Underpass, South half of 27th Street Underpass.
South portion of Rio Grande Trail & South 27th Street Sidewalk Construction.
North portion of Rio Grande Trail, North half of 27th Street Underpass, North 27th Street Sidewalk Construction.
- D. **ACRES OF DISTURBANCE:** (R-1)
Total area of construction site (LOC (PERMITTED AREA)): 4.3 acres
Total area of proposed disturbance (LDA): 2.8 acres
~~Total area of seeding: 1.23 acres~~
Total area of pre-project impervious surface: 76,100 sq. ft.
Total area of final impervious surface: 79,320 sq. ft.
- E. **EXISTING SOIL DATA:** In general, the surface soils consist of mostly sandy loam, gravelly sandy loam and gravelly sandy clay loam, Atencio-Azeltine complex, 1-3% slopes within the Hydrologic Soil Group B. This soil type has an erosion factor of 0.17, indicating the soil has low to moderate susceptibility to sheet and rill erosion. Data Source: USDA NRCS Web Soil Survey
- F. **EXISTING VEGETATION, INCLUDING PERCENT COVER:** During design the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects as outlined in Chapter 4.11.2 of the CDOT's Erosion Control and Stormwater Quality Guide.

Pre-Construction Date of survey: _____ % Density: _____

Description of existing vegetation:
Map or table showing transect locations in SWMP tab 17:

Post-Construction Date of survey: _____ % Density: _____
Description of existing vegetation: _____ Date of CDPS-SCP Closure: _____
Map or table showing transect locations in SWMP tab 17:

- G. **POTENTIAL POLLUTANTS SOURCES:** Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.
- H. **RECEIVING WATER:**
Outfall locations: 30" HDPE Drain Pipe (SH82 Sta.13+46.54 O/S 274.90'R), see Drainage Plans
Names of immediate receiving water(s) on site: Existing storm drain system in 27th Street, outfall into Roaring Fork River upstream of 27th Street Bridge
Ultimate receiving water(s): Colorado River
Description of all stream crossings located within the Construction Site Boundary: None

I. ALLOWABLE NON-STORMWATER DISCHARGES:

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

- J. **DESCRIPTION OF DRAINAGE PATTERNS FROM THE SITE:**
The water from the site is transported in the storm sewer system to the Roaring Fork River.

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

L. ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:

If applicable, provide a description of the alternative temporary stabilization schedule. If temporary stabilization exceeds the 14-day schedule, then the SWMP must document the constraints necessitating the alternative schedule, provide the alternative schedule, and identify all the locations where the alternative schedule is applicable on the site map.

2. SITE MAP COMPONENTS:

Pre-construction

- A. **PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES** [See Erosion Control Plan]
- B. **FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF DIRECTION** [See Erosion Control Plan]
- C. **ALL AREAS OF GROUND SURFACE DISTURBANCE** [See Erosion Control Plan]
- D. **AREAS OF CUT AND FILL** [See Erosion Control Plan]
- E. **AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS** (field trailer, fueling, etc.) and **LOCATIONS OF ALL WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS** [See Erosion Control Plan]
- F. **LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP** [See Erosion Control Plan]
- G. **LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP** [See Erosion Control Plan]
- H. **SPRINGS, SPRINGS, WETLANDS AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER** [N/A]
- I. **LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY:** [N/A]
- J. **PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES:** [See Erosion Control Plan]

3. QUALIFIED STORMWATER MANAGERS:

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

Name/Title	Contact Information	Certification #
Richard Saindon, PE	970-384-9078 / richards@sgm-inc.com	47AD96F6

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

- D. **PERMANENT STABILIZATION SUBJECT MATTER EXPERT:** This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows, and will be available for questions regarding permanent stabilization requirements.

- Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
- Attend the Environmental Pre-construction Conference.
- Coordinate the Site Pre-vegetation Conference.
- Review and recommend approval of products.
- Review and recommend approval of the Quantities Verification Prerequisite.
- Attend the Substantial Landscape Completion Walkthrough.
- Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information



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Computer File Information		Sheet Revisions					As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS STORM WATER MANAGEMENT PLAN (1)	Project No./Code	
Print Date: 12/20/21	Last Modification Date: 06/30/21	Rev. 1	Date 12/22/21	Comments ELIMINATED WALLS 1&3			Init. MWM	No Revisions: -		Revised: -	Void: -
Drawing File Name: Hwy82PUP-SWMP	Autocad Ver. 2020 Scale: As Shown Units: English								Drawn By: MWM	Numbers: --	Code: 23687 / 23975
SGM Project No.: 2020-544.001	Quality Control: MDF								Sheet Subset: SWMP	Subset Sheets: 1 of 5	Sheet Number: 192

12. TABULATION OF STORMWATER QUANTITIES

A. All control measure maintenance shall be included in the cost of the control measure.*

PSP Spec	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	**Total Quantity
	208-00002	Erosion Log Type 1 (12 inch)	LF	20	500		520
	208-00035	Aggregate Bag	LF		100		100
	208-00046	Pre-fabricated Concrete Washout Structure (Type I)	Each		3		3
	208-00051	Storm Drain Inlet Protection (Type I)	Each	1	2		3
	208-00054	Storm Drain Inlet Protection (Type II)	Each	1	3		4
	208-00056	Storm Drain Inlet Protection (Type III)	Each	1			1
	208-00075	Pre-fabricated Vehicle Tracking Pad	Each	2			2
	208-00207	Erosion Control Management	Day				180
	212-00701	Compost (Mechanically Applied)	CY			166	166
	212-00708	Seeding (Native) Broadcast	Acre			1.23	1.23
	213-00004	Mulching (Weed Free Straw)	Acre			1.23	1.23
	213-00008	Mulching (Wood Chip)	CF			748	748
	213-00061	Mulch Tackifier	LB			246	246
	216-00201	Soil Retention Blanket (Straw/Coconut) (Biodegradable Class 1)	SY			1368	1368
	607-11525	Fence (Plastic)	LF	150			150

(R-1)

(R-1)

(R-1)

*Removal and Disposal of Sediment and Sweeping will not be measured and paid for separately but shall be included in the work.

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

13. BIOLOGIC IMPACTS and DEWATERING

A. ENVIRONMENTAL IMPACTS:

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

B. DEWATERING (Not Covered Under the CDPHE Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land):

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

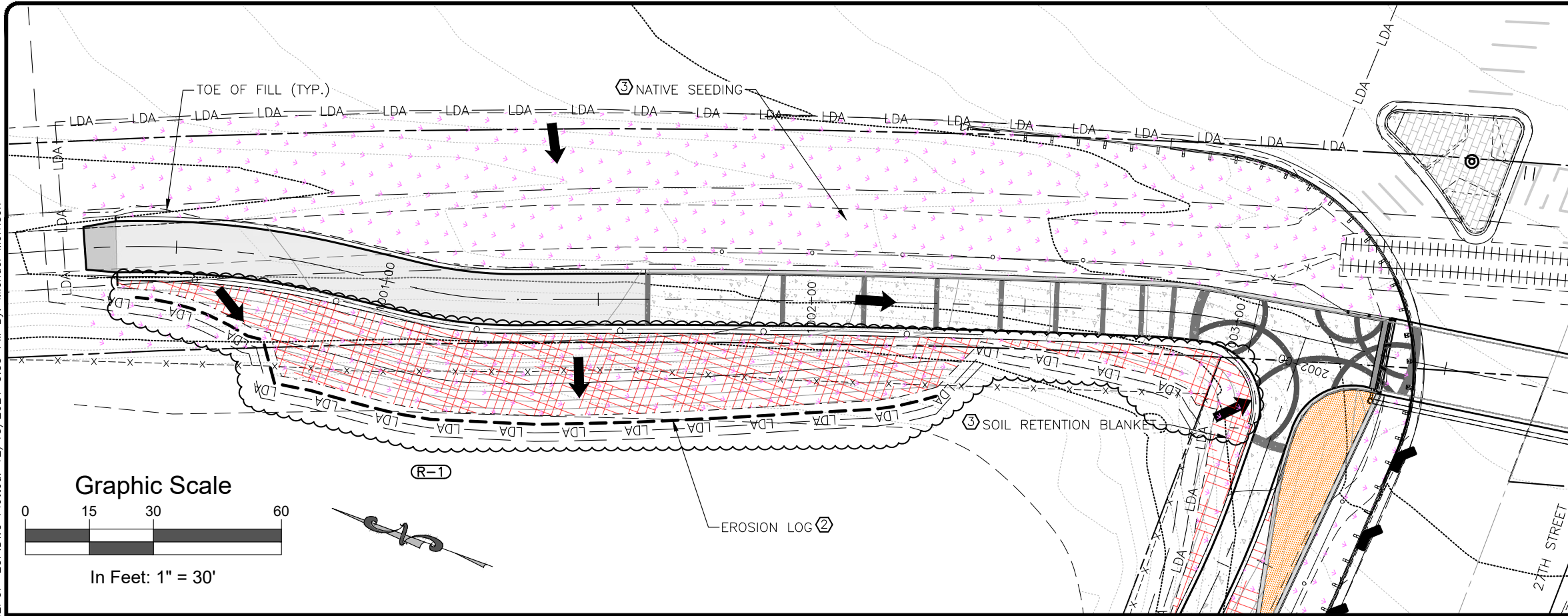
1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permat shall be obtained by the Contractor from CDPHE in accordance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



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Computer File Information		Sheet Revisions					As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS STORM WATER MANAGEMENT PLAN (5)	Project No./Code	
Print Date:	Last Modification Date:	Rev.	Date	Comments			Init.	No Revisions:		Revised:	Void:
12/20/21	06/30/21	1	12/22/21	ELIMINATED WALLS 1&3	MWM	-	-	-	AMC	--	23687 / 23975
Drawing File Name: Hwy82PUP-SWMP									MWM	Numbers	
Autocad Ver. 2020 Scale: As Shown Units: English									SWMP	Subset Sheets:	5 of 5
SGM Project No.: 2020-544.001 Quality Control: MDF											Sheet Number: 196

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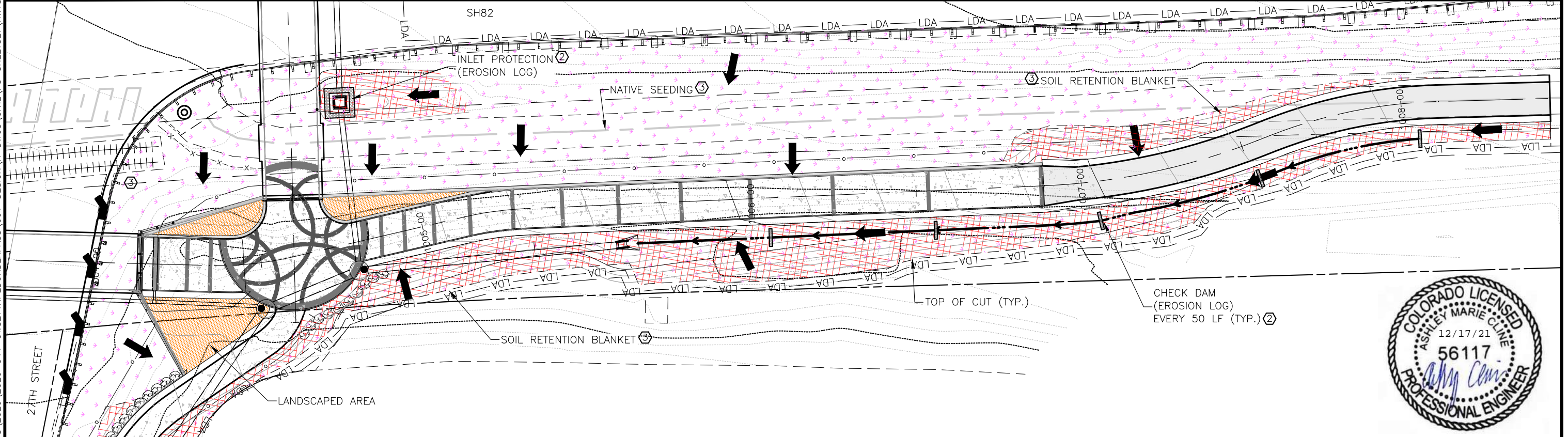


LEGEND

- EROSION LOG (12 INCH)
- EROSION LOG OUTLET AND INLET PROTECTION
- EROSION LOG STORM DRAIN INLET PROTECTION
- EROSION LOG CHECK DAM
- AGGREGATE BAG
- STORM DRAIN INLET PROTECTION (TYPE I, II OR III)
- SEEDING & SOIL RETENTION BLANKET
- SEEDING & MULCHING
- LANDSCAPE AREA
- FLOW ARROW (DIRECTION OF FLOW)
- DITCH FLOW LINE
- LIMITS OF DISTURBED AREA
- CONSTRUCTION BOUNDARY
- CONSTRUCTION FENCING
- TOP OF CUT
- TOE OF FILL

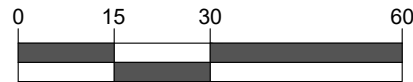
CONTROL MEASURE (BMP) NOTES

1. BMPs ARE NOT DRAWN TO SCALE.
2. BMP LOCATIONS SHOWN ARE APPROXIMATE.
3. PHASES OF BMP INSTALLATION:
 - ① INITIAL CONSTRUCTION
 - ② INTERIM CONSTRUCTION
 - ③ FINAL/PERMANENT STABILIZATION



Computer File Information		Sheet Revisions			 Roaring Fork Transportation Authority	 SGM	As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS		Project No./Code															
Print Date: 12/15/21 Last Modification Date: 12/14/21 Drawing File Name: Hwy82PUP-ECP Autocad Ver. 2020 Scale: As Shown SGM Project No.: 2020-544.001 Quality Control: MDF		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Rev.</th> <th>Date</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12/22/21</td> <td>ELIMINATED WALLS 1&3</td> <td>MWM</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Rev.	Date			Comments	Init.	1	12/22/21	ELIMINATED WALLS 1&3	MWM									No Revisions: Revised: Void:		EROSION CONTROL PLAN (1)		MTF M535-007 / 008 23687 / 23975	
Rev.	Date	Comments	Init.																							
1	12/22/21	ELIMINATED WALLS 1&3	MWM																							
					118 West Sixth Street, Suite 200 Glenwood Springs, CO 81601 970.945.1004 www.sgm-inc.com		Engineer: AMC Drawn By: MWM Sheet Subset: EC		Structure Numbers Subset Sheets: 1 of 3		Sheet Number 197															

Graphic Scale



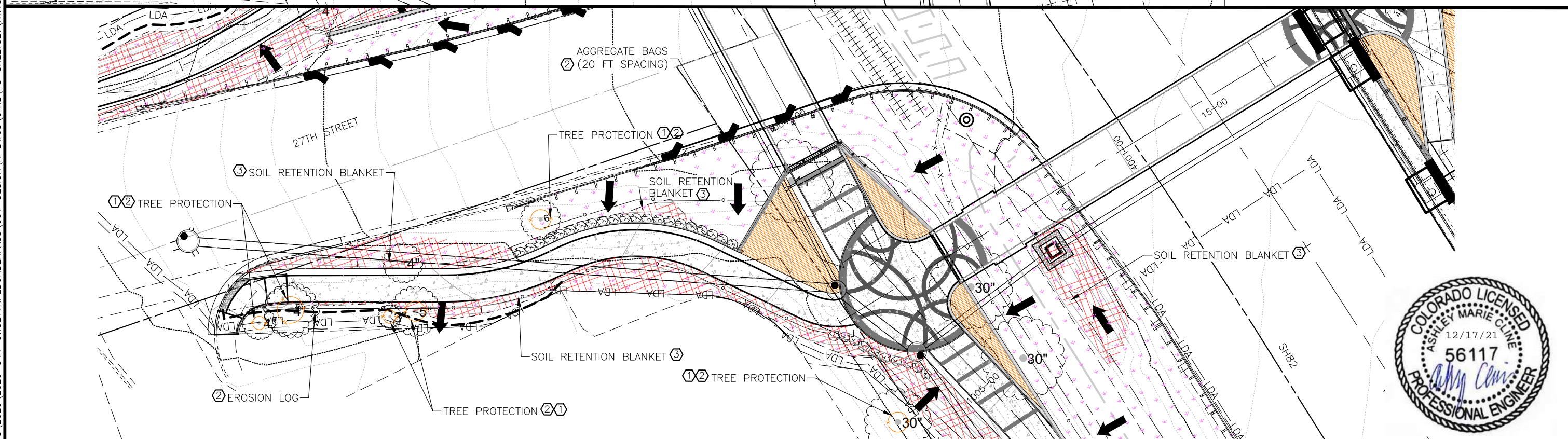
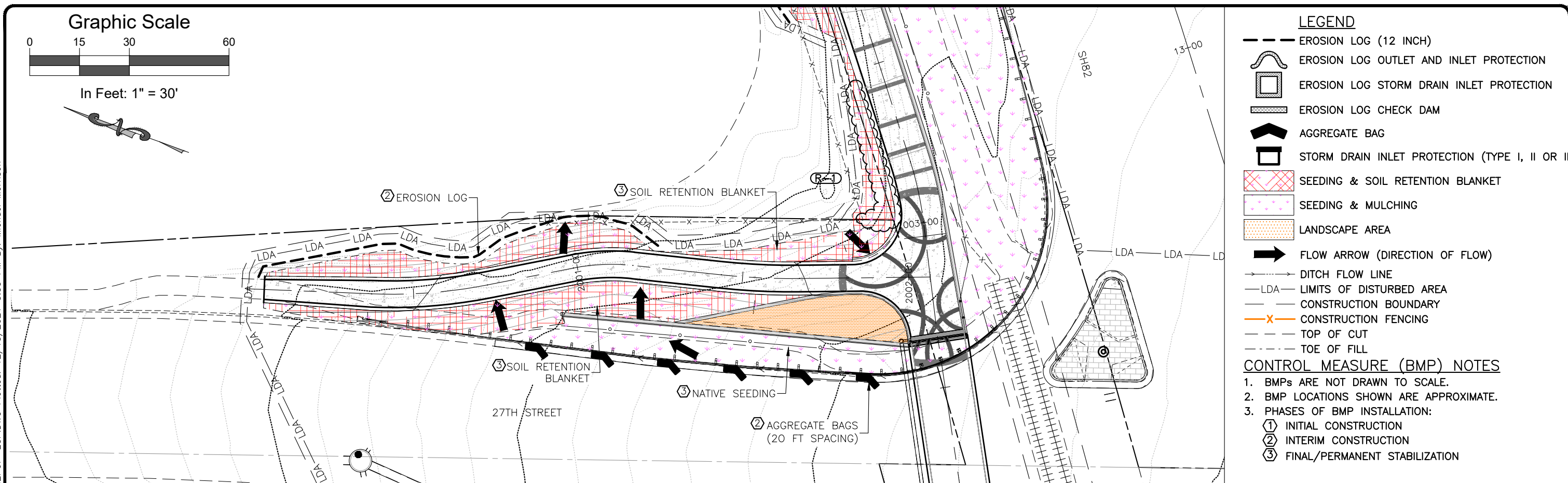
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LEGEND

- EROSION LOG (12 INCH)
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- EROSION LOG STORM DRAIN INLET PROTECTION
- EROSION LOG CHECK DAM
- AGGREGATE BAG
- STORM DRAIN INLET PROTECTION (TYPE I, II OR III)
- SEEDING & SOIL RETENTION BLANKET
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CONTROL MEASURE (BMP) NOTES

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 - ② INTERIM CONSTRUCTION
 - ③ FINAL/PERMANENT STABILIZATION



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Last Modification Date:	12/14/21
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SGM Project No.:	2020-544.001
Quality Control:	MDF

Sheet Revisions

Rev.	Date	Comments	Init.
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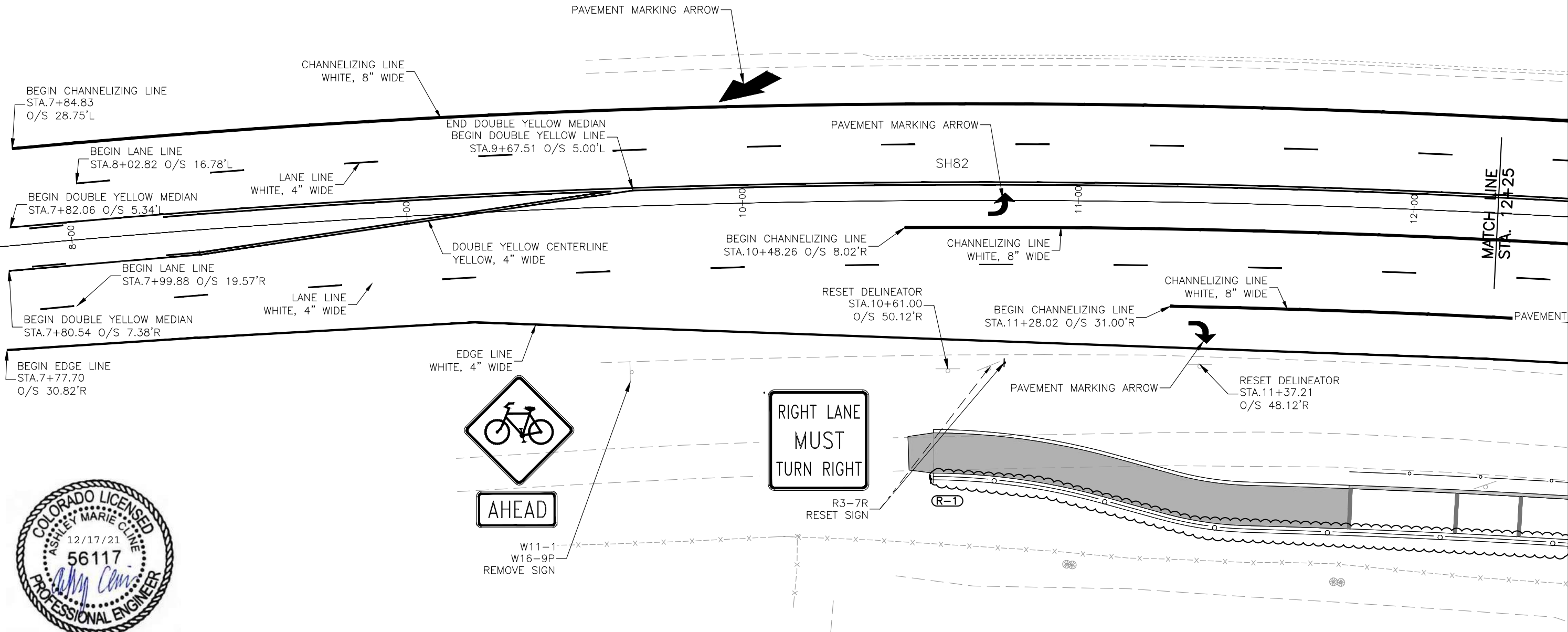
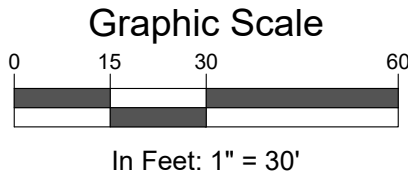
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No Revisions:
Revised:
Void:

27TH ST AND SH82 PEDESTRIAN UNDERPASS EROSION CONTROL PLAN (2)			
Engineer:	AMC	Structure Numbers	
Drawn By:	MWM	Subset Sheets:	2 of 3

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Sheet Number 198

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Last Modification Date:	06/30/21
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Autocad Ver. 2020	Scale: As Shown
SGM Project No.:	2020-544.001
Quality Control:	MDF

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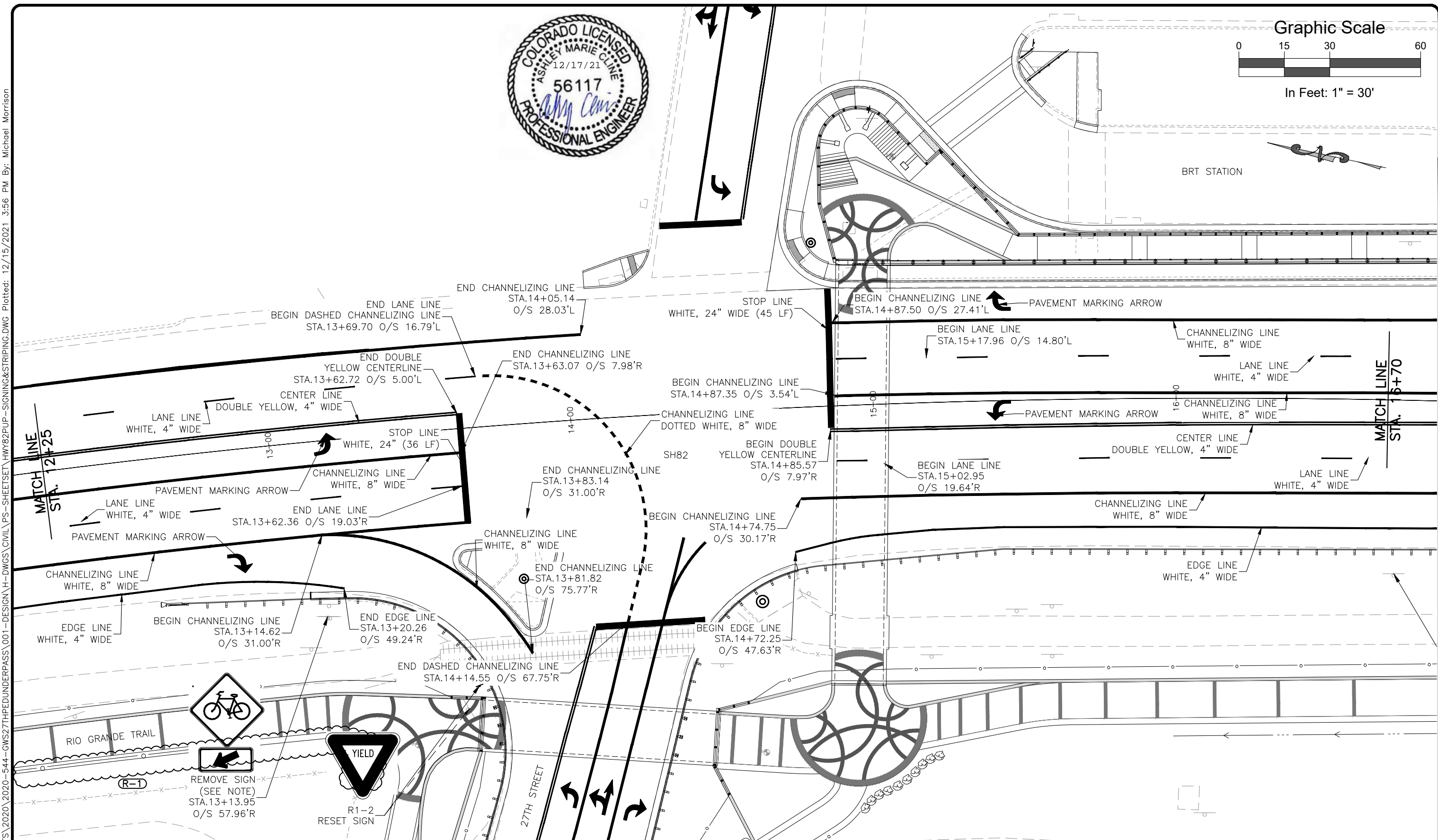
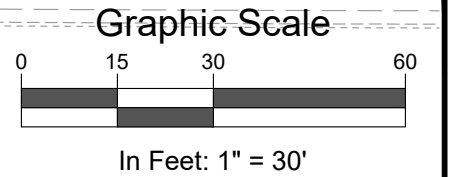


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27TH ST AND SH82 PEDESTRIAN UNDERPASS SH82 - SIGNING & STRIPING (1)			
Engineer:	AMC	Structure Numbers	
Drawn By:	MWM	Subset Sheets:	3 of 9
Sheet Subset:	SS		

Project No./Code	
MTF M535-007 / 008	
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Last Modification Date:	06/30/21
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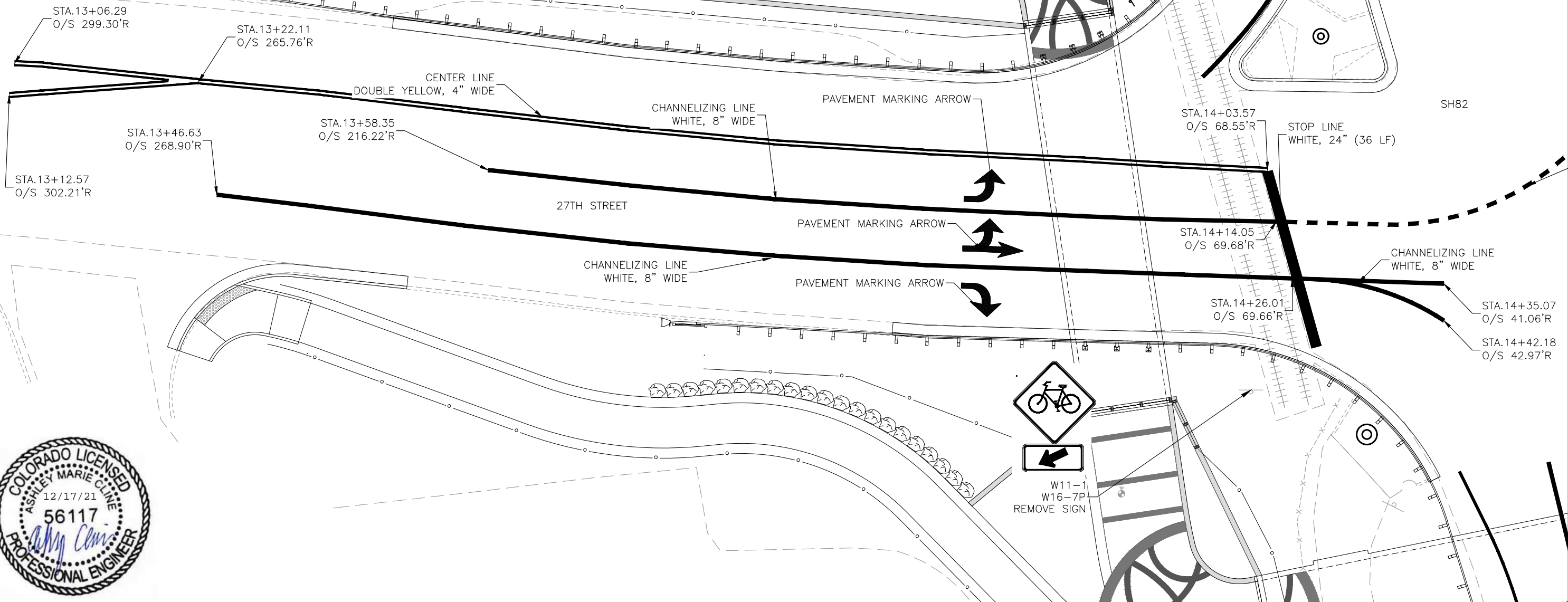
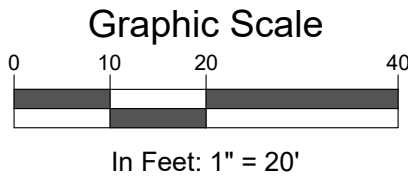
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Sheet Subset:	SS	Subset Sheets:	4 of 9

Project No./Code	
MTF M535-007 / 008	
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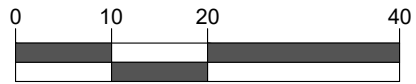


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Structure Numbers
Sheet Subset: SS
Subset Sheets: 6 of 9

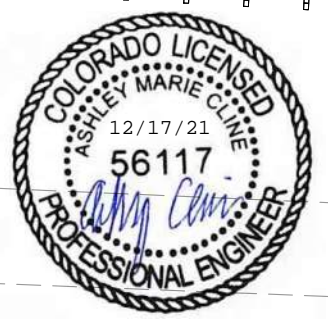
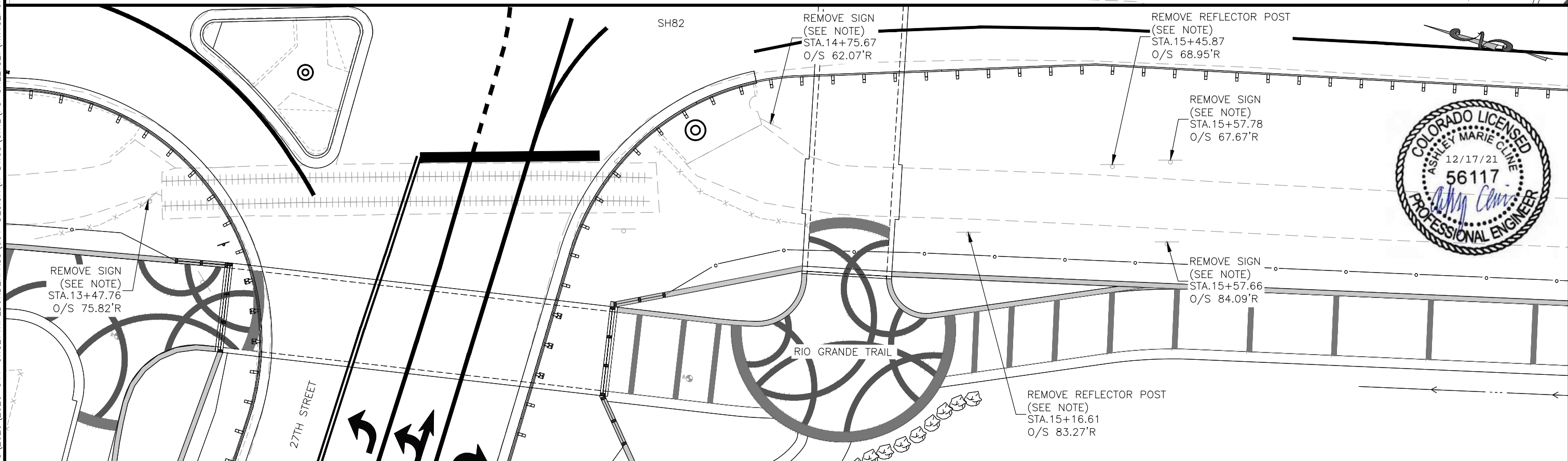
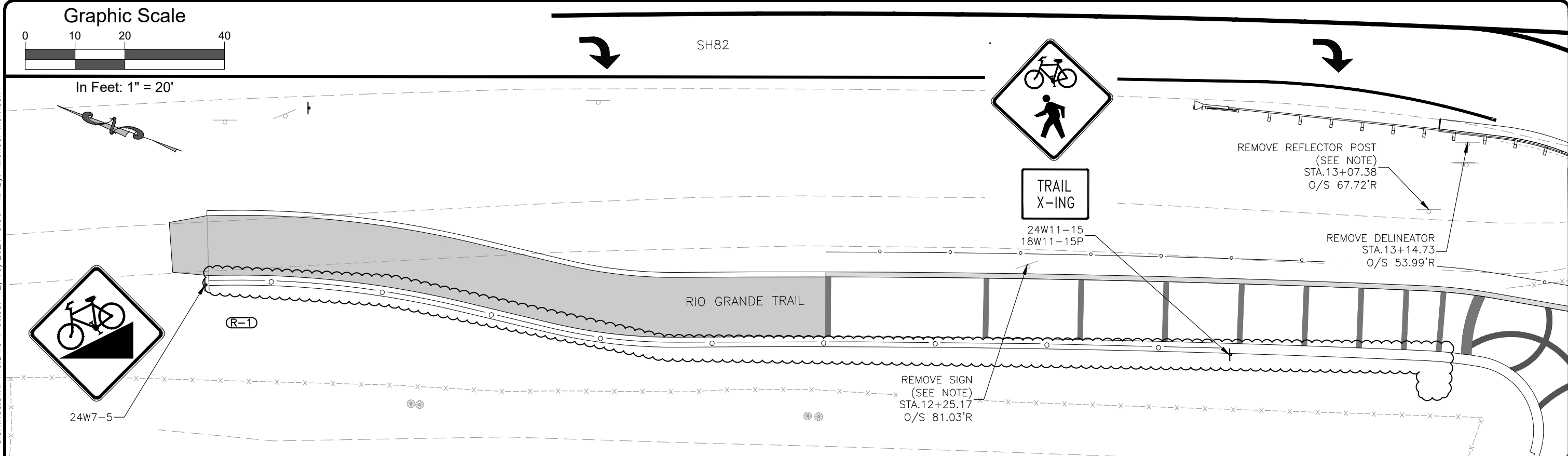
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23687 / 23975
Sheet Number 205

Graphic Scale



In Feet: 1" = 20'

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Autocad Ver.:	2020 Scale: As Shown
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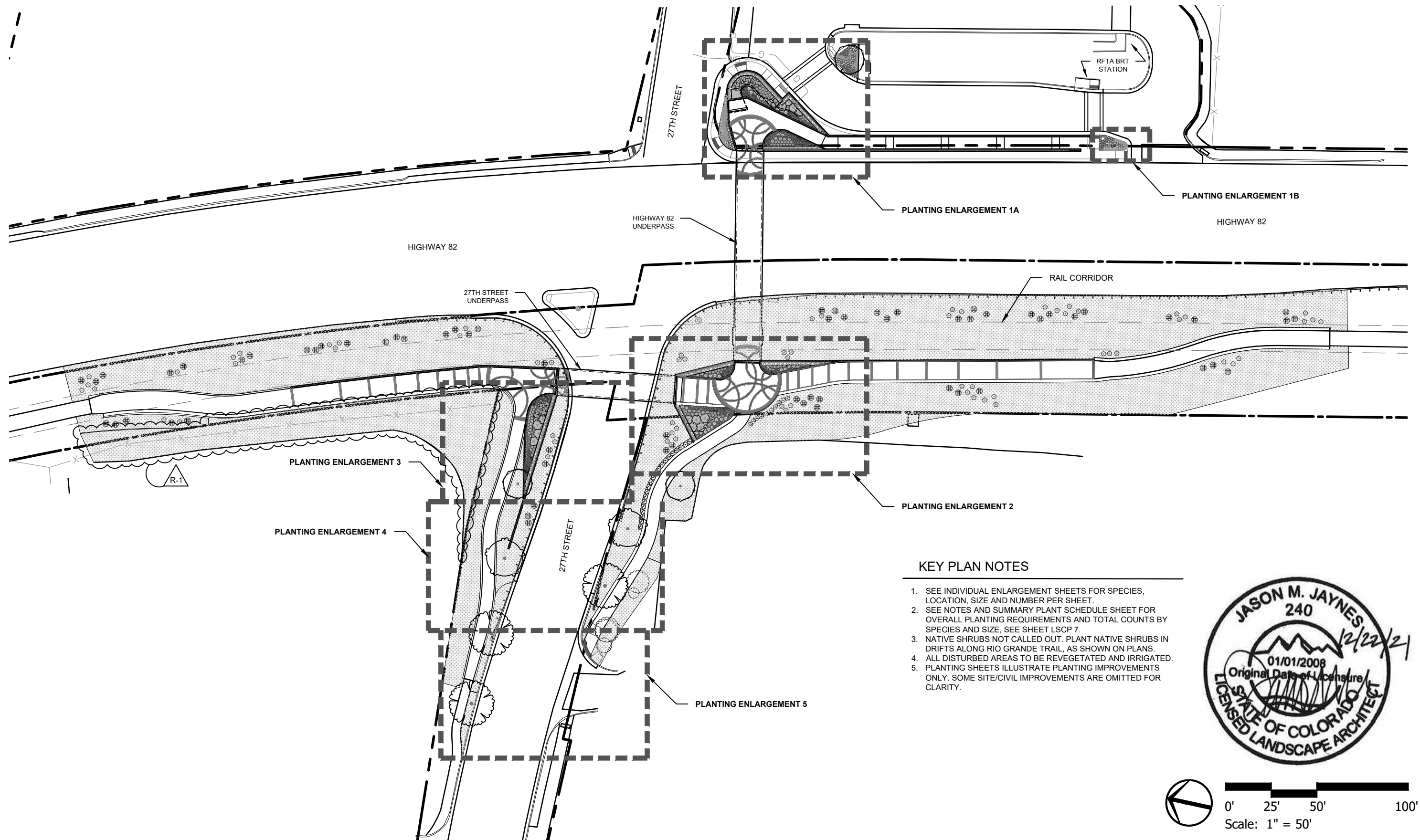
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No Revisions:	
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27TH ST AND SH82 PEDESTRIAN UNDERPASS RIO GRANDE TRAIL - SIGNING & STRIPING (1)			
Engineer:	AMC	Structure Numbers	
Drawn By:	MWM		
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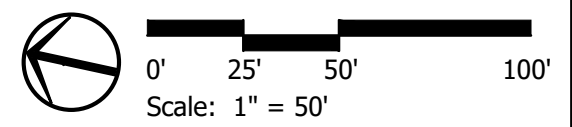
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	23687 / 23975
Sheet Number	207

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KEY PLAN NOTES

1. SEE INDIVIDUAL ENLARGEMENT SHEETS FOR SPECIES, LOCATION, SIZE AND NUMBER PER SHEET.
2. SEE NOTES AND SUMMARY PLANT SCHEDULE SHEET FOR OVERALL PLANTING REQUIREMENTS AND TOTAL COUNTS BY SPECIES AND SIZE. SEE SHEET LSCP 7.
3. NATIVE SHRUBS NOT CALLED OUT. PLANT NATIVE SHRUBS IN DRIFTS ALONG RIO GRANDE TRAIL, AS SHOWN ON PLANS.
4. ALL DISTURBED AREAS TO BE REVEGETATED AND IRRIGATED.
5. PLANTING SHEETS ILLUSTRATE PLANTING IMPROVEMENTS ONLY. SOME SITE/CIVIL IMPROVEMENTS ARE OMITTED FOR CLARITY.



Computer File Information	
Print Date:	12/20/21
Last Modification Date:	12/22/21
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Autocad Ver. 2020	Scale: As Shown
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Quality Control:	XX

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Rev.	Date	Comments	Init.
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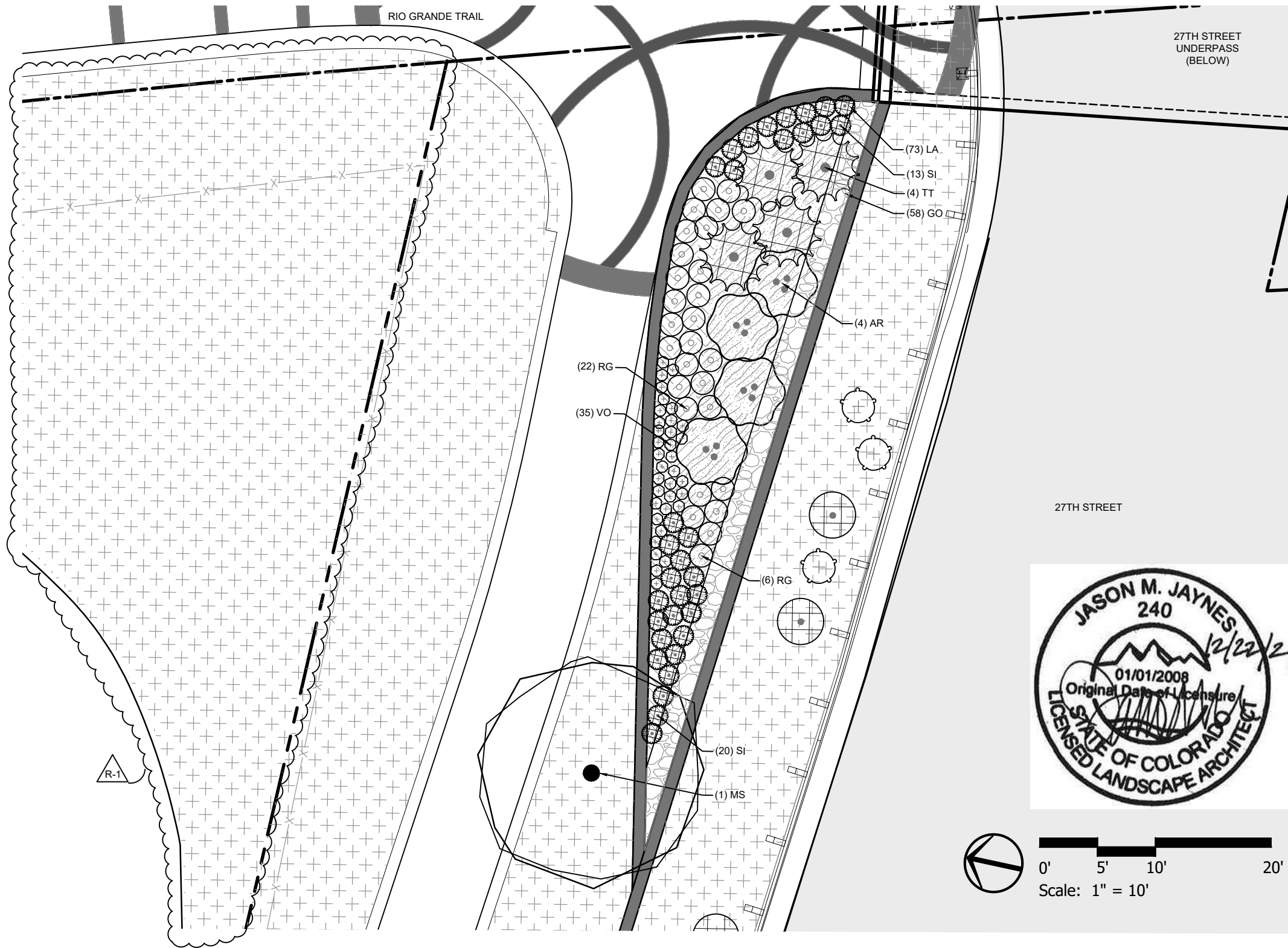


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Revised:
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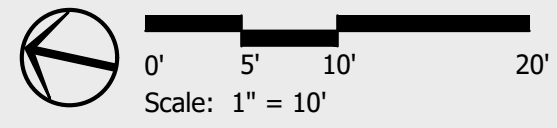
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PLANTING KEY PLAN			
Designer:	JJ	Structure Numbers	
Drawn By:	DB		
Sheet Subset:	LANDSCAPE	Subset Sheets:	1 of 9

Project No./Code
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Code: 23687 / 23975
Sheet Number
300

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PLANT SCHEDULE ENLARGEMENT 3				
TREES	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	MS	Malus x 'Spring Snow' Spring Snow Crabapple (Sterile Variety)	2" Cal B&B	1
SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	VO	Viburnum opulus 'Nanum' Dwarf European Craberrybush	1 Gal	35
	RG	Ribes alpinum 'Green Mound' Green Mound Alpine Currant	5 Gal	28
	SI	Spiraea japonica 'Limemound' Limemound Spirea	5 Gal	33
	AR	Amelanchier alnifolia 'Regent' Regent Serviceberry	5 Gal	4
	TT	Taxus x media 'Tauntonii' Taunton's Anglo-Japanese Yew	5 Gal	4
NATIVE SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	AV2	Artemisia tridentata vaseyana Mountain Big Sagebrush	1 Gal	2
	CR2	Chrysothamnus nauseosus Rubber Rabbitbrush	1 Gal	3
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	LA	Lysimachia nummularia 'Aurea' Golden Creeping Jenny	2.25" Pot	73
	GO	Galium odoratum Sweet Woodruff	2.25" Pot	58



LEGEND:

- SAGEBRUSH SHRUBLAND MIX (SEE SHEET LSCP 7)
- COBBLE BAND
COBBLE TO BE: 'RIVER COBBLE', 4-8" MIX
INSTALL TO 8" MIN. DEPTH AND EDGE WITH
1/8" STAKED METAL EDGING AS REQUIRED

ENLARGEMENT NOTES:

1. NATIVE SHRUBS NOT CALLED OUT. PLANT NATIVE SHRUBS IN DRIFTS ALONG RIO GRANDE TRAIL.
2. ALL DISTURBED AREAS OUTSIDE OF PLANTING BEDS TO RECEIVE NATIVE SEEDING, ALSO REFERRED TO AS SAGEBRUSH SHRUBLAND MIX.
3. GROUND COVER HATCHES ILLUSTRATED AT HALF SCALE ON LEGEND.

Computer File Information		Sheet Revisions				DHM DESIGN	As Constructed		27TH ST AND SH82 PEDESTRIAN UNDERPASS		Project No./Code	
Print Date: 12/20/21		Rev.	Date	Comments			Init.	No Revisions:		PLANTING ENLARGEMENT 3		MTF M535-007 / 008
Last Modification Date: 12/22/21		1	12.22.21	ELIMINATED WALLS 1 & 3		Revised:		Designer: JJ	Structure	Code: 23687 / 23975		
Drawing File Name: UNDERPASS_L-2-0_LANDSCAPE PLAN rev numbers						Void:		Drawn By: DB	Numbers	Sheet Number 303		
Autocad Ver. 2020 Scale: As Shown								Sheet Subset: LANDSCAPE	Subset Sheets: 4 of 9			
SGM Project No.: 2020-544.001								Quality Control: XX				

PLANTING NOTES




















- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH AND UNDERSTAND ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES LOCATED ON SITE. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COSTS INCURRED DUE TO DAMAGE AND THE REPLACEMENT OF SAID UTILITIES. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION CONTACT: UTILITY NOTIFICATION CENTER OF COLORADO, 303.232.1991 OR 8-1-1.
- CONTRACTOR TO CONTACT THE UTILITY NOTIFICATION CENTER BEFORE DIGGING, INCLUDING BUT NOT LIMITED TO, TRENCHING AND SHRUB AND TREE PLANTING PITS. IF UTILITIES OCCUR AT LOCATIONS OF PROPOSED SHRUBS, OR WITHIN EIGHT (8) FEET OF PROPOSED TREES, THE CONTRACTOR SHALL REPORT SUCH CONDITIONS TO THE OWNER'S REPRESENTATIVE. DAMAGE TO EXISTING UTILITIES BY THE LANDSCAPE CONTRACTOR IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- LANDSCAPE CONTRACTOR TO REMOVE ALL ROCK AND DEBRIS OVER 1" IN SIZE AND DISPOSE OF OFF-SITE LEGALLY PRIOR TO INSTALLATION OF ANY PLANT MATERIAL. ALL MATERIALS SHALL BE DISPOSED OF OFF-SITE LEGALLY AND PER LOCAL CODES & REGULATIONS.
- CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLAN. ANY DISCREPANCIES BETWEEN THE PLAN AND FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S AUTHORIZED REPRESENTATIVE BEFORE PROCEEDING WITH WORK.
- CONTRACTOR SHALL USE LOCAL BEST MANAGEMENT PRACTICES FOR OBTAINING AND INSTALLING LANDSCAPE MATERIALS. COMPLETE THE WORK USING SKILLED PERSONNEL, PROFICIENT IN THE TRADES REQUIRED & IN A NEAT, ORDERLY AND RESPONSIBLE MANNER & WITH RECOGNIZED STANDARDS OF WORKMANSHIP.
- ALL PLANTS TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. NOTIFY ENGINEER FOR INSPECTION AND APPROVAL OF PLANT MATERIAL AT TIME OF DELIVERY. TREES ARE TO BE TAGGED AT THE NURSERY BY THE OWNER. ANY PLANT NOT MEETING OWNER'S APPROVAL MAY BE REJECTED AT ANY TIME PRIOR TO FINAL ACCEPTANCE.
- PLANT MATERIAL MUST MEET CURRENT LANDSCAPE NURSERY STANDARDS &/OR ANSI Z60.1.
- IF PLANTS ARE NOT AVAILABLE, NOTIFY LANDSCAPE ARCHITECT FOR APPROVAL OF CHANGE BEFORE MAKING SUBSTITUTIONS.
- THE OWNER'S AUTHORIZED REPRESENTATIVE MUST APPROVE ALL PLANTING LAYOUTS PRIOR TO PLANTING. ALL ADJUSTMENTS SHALL BE MADE BY THE CONTRACTOR PRIOR TO INSTALLING PLANTS. THE CONTRACTOR SHALL NOT DIG PLANT PITS UNTIL LOCATIONS ARE APPROVED.
- MINOR FIELD ADJUSTMENTS TO THE PLANTING PLANS MAY BE NECESSARY BASED ON THE ACTUAL LOCATION OF LIGHTS, TRANSFORMERS, GROUND-MOUNTED HVAC UNITS, UTILITY PEDESTALS, AND SIMILAR FEATURES. ADDITIONAL LANDSCAPING AND SCREENING MAY BE REQUIRED BASED UPON FIELD CONDITIONS DURING THE SITE INSPECTION PRIOR TO INITIAL ACCEPTANCE. CONTRACTOR MUST OBTAIN APPROVAL FROM THE OWNER PRIOR TO ADJUSTING THE DESIGN.
- ALL SHRUB BEDS AND SOD AREAS SHALL BE CONTAINED BY A STEEL EDGER, OR A CONCRETE CURB, WALK, OR OTHER SHRUB BED DEFINING ELEMENT.
- TREE BASKETS SHALL BE REMOVED FROM ROOTBALLS AND KEPT BY THE PLANTED TREE UNTIL VERIFIED BY THE OWNER'S REPRESENTATIVE.
- STOCKPILED PLANT MATERIAL TO BE PLACED IN THE SHADE AND HAND-WATERED UNTIL PLANTED.
- MAINTAIN POSITIVE DRAINAGE AWAY FROM WALLS, WALKS, AND OTHER STRUCTURES AT ALL TIMES. FINE GRADING SHALL BE APPROVED PRIOR TO SEEDING OR INSTALLATION OF ANY PLANT MATERIAL.
- THE CONTRACTOR SHALL FINE GRADE ALL AREAS TO BE PLANTED. THE CONTRACTOR SHALL REMOVE REQUIRED DEPTH OF SOIL ALONG WALK WAYS TO ACCOMMODATE SEED OR MULCH DEPTH TO BRING BACK TO GRADE.
- ALL DISTURBED AREAS TO BE RE-VEGETATED AS DESIGNATED IN THE PLANS.

- NOXIOUS VEGETATION SHALL BE CONTROLLED BY LANDSCAPE CONTRACTOR IN ALL AREAS AFFECTED BY THE WORK DURING INSTALLATION AND THROUGHOUT THE MAINTENANCE REVIEW.
- ALL LANDSCAPE AREAS WILL BE IRRIGATED WITH A FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.
- MULCH - ALL PLANTING BEDS SHALL BE COVERED BY A SPECIFIED MULCH (OR ACCEPTED SUBSTITUTION) AS APPROVED BY OWNER. ALSO REFER TO SPECIFICATIONS AND DETAILS.
 - ALL SHRUB BEDS SHALL RECEIVE A MINIMUM OF 4" OF MULCH, INCLUDING THE DRY ZONE AROUND THE BUILDINGS.
 - EXCEPT GROUNDCOVERS SHALL RECEIVE 3" OF MULCH.
 - DO NOT BURY PERENNIALS OR ORNAMENTAL GRASSES WITH MULCH.
 - MULCH AROUND TREES SHALL BE 4" DEEP IN NON-TURF AREAS & 2" DEEP IN TURF AREAS.
 - PULL MULCH BACK 6" FROM TRUNK OF TREES AS PER DETAILS.
 - DO NOT PROVIDE A WATER BASIN FOR TREES IN LAWN AREAS
- SPACING / LAYOUT.
 - TREES TO BE A MINIMUM OF 8' FROM CENTER LINE OF UNDERGROUND UTILITIES SUCH AS STORM SEWERS, WATER MAINS, ETC.
 - LARGE SHRUBS (THOSE OVER 6' SPACING AS SHOWN IN THE PLANT SCHEDULE) SHALL BE PLANTED A MINIMUM OF 5' FROM EDGER OR WALKS.
 - SMALLER SHRUBS (THOSE LESS THAN 6' SPACING AS SHOWN IN THE PLANT SCHEDULE) SHALL BE PLANTED A MINIMUM OF 3' FROM EDGER OR WALKS.
- WHEN PLANTING TREES, THE 1ST STRUCTURAL ROOT SHOULD BE PLACED 1" ABOVE THE FINISHED GRADE. SEE DETAILS.

CONCEPT PLANT SCHEDULE

SAGEBRUSH SHRUBLAND MIX			
	Achnatherum hymenoides / Indian Rice Grass	7,394 sf	14%
	Agropyron spicatum / Bluebunch Wheatgrass	6,338 sf	12%
	Arenaria hookeri / Hookers Sandwort	1,056 sf	2%
	Artemisia frigida / Fringed Wormwood	1,056 sf	2%
	Artemisia nova / Black Sagebrush	528 sf	1%
	Artemisia tridentata vaseyana / Mountain Big Sagebrush	1,056 sf	2%
	Balsamorhiza sagittata / Arrowleaf Balsamroot	1,056 sf	2%
	Bouteloua curtipendula / Side Oats Grama	5,282 sf	10%
	Chrysopsis villosa / Hairy Golden Aster	1,056 sf	2%
	Chrysothamnus nauseosus / Rubber Rabbitbrush	2,641 sf	5%
	Delphinium nuttallii / Nuttall's Larkspur	2,113 sf	4%
	Elymus trachycaulus / Slender Wheatgrass	5,282 sf	10%
	Festuca saximontana / Rocky Mountain Fescue	5,282 sf	10%
	Pascopyrum smithii / Western Wheatgrass	5,282 sf	10%
	Phlox hoodii / Carpet Phlox	2,113 sf	4%
	Stipa lettermanii / Letterman's Needlegrass	5,282 sf	10%
APPLICATION RATE: 18 LBS/ACRE			

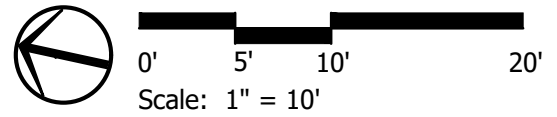
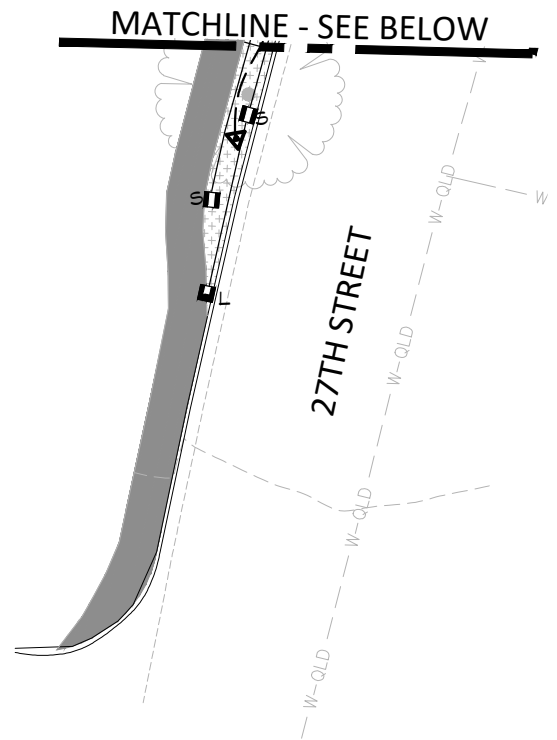
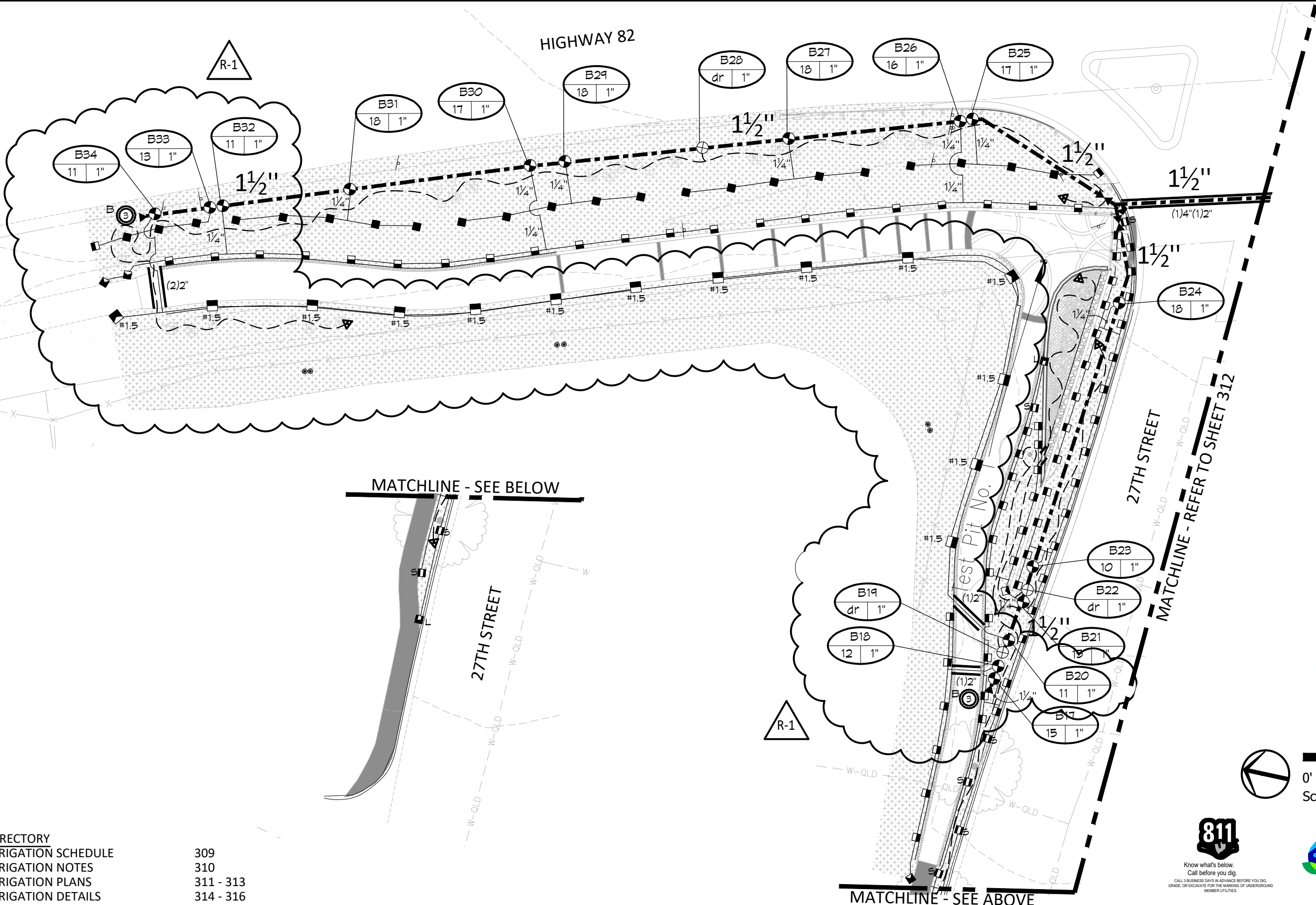


PLANT SCHEDULE				
TREES	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	TG	Tilia cordata 'Greenspire' Greenspire Littleleaf Linden	2" Cal B&B	2
	AP	Acer platanoides 'Royal Red' Royal Red Maple	2" Cal B&B	3
	MS	Malus x 'Spring Snow' Spring Snow Crabapple (Sterile Variety)	2" Cal B&B	3
SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	VO	Viburnum opulus 'Nanum' Dwarf European Craberrybush	1 Gal	35
	RG	Ribes alpinum 'Green Mound' Green Mound Alpine Currant	5 Gal	93
	SI	Spiraea japonica 'Limemound' Limemound Spirea	5 Gal	112
	PM	Pinus mugo 'Mops' Mops Mugo Pine	5 Gal	57
	AR	Amelanchier alnifolia 'Regent' Regent Serviceberry	5 Gal	13
	BT	Berberis thunbergii Royal Burgundy Rose Glow Japanese Barberry	5 Gal	103
	TT	Taxus x media 'Tauntonii' Taunton's Anglo-Japanese Yew	5 Gal	7
GRASSES	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	BB	Bouteloua gracilis 'Blonde Ambition' Blonde Ambition Blue Grama	1 Gal	149
	HS	Helictotrichon sempervirens Blue Oat Grass	1 Gal	40
	PC	Panicum virgatum 'Cheyenne Sky' Cheyenne Sky Switch Grass	1 Gal	73
	PH2	Pennisetum alopecuroides 'Hamelin' Hamelin Fountain Grass	1 Gal	26
	CB	Calamagrostis brachytricha Korean Feather Reed Grass	1 Gal	25
NATIVE SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	AV2	Artemisia tridentata vaseyana Mountain Big Sagebrush	1 Gal	64
	CR2	Chrysothamnus nauseosus Rubber Rabbitbrush	1 Gal	64
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	LA	Lysimachia nummularia 'Aurea' Golden Creeping Jenny	2.25" Pot	332
	GO	Galium odoratum Sweet Woodruff	2.25" Pot	241

P:\CARBONDALE\RTA_27TH STREET UNDERPASS - 20354\5_FOR SUBMITTAL\CAD\SHEETS\UNDERPASS_L-2-0_LANDSCAPE PLAN REV NUMBERS.DWG Plotted: 12/20/2021 3:03 PM By: Nick LHeureux

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Last Modification Date: 12/22/21		1	12.22.21	ELIMINATED WALLS 1 & 3				Revised:		Designer: JJ	Structure Numbers	Code: 23687 / 23975	
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Autocad Ver. 2020 Scale: As Shown								Sheet Subset: LANDSCAPE	Subset Sheets: 7 of 9				
SGM Project No.: 2020-544.001		Quality Control: XX											

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DIRECTORY	309
IRRIGATION SCHEDULE	310
IRRIGATION NOTES	311 - 313
IRRIGATION PLANS	314 - 316
IRRIGATION DETAILS	

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Autocad Ver.	Scale: As Shown
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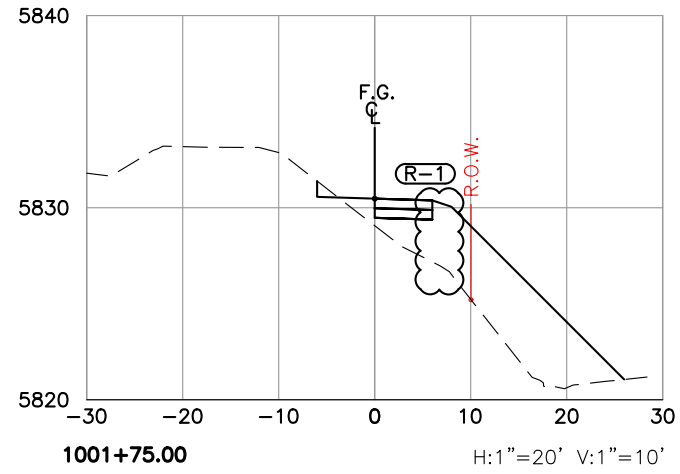
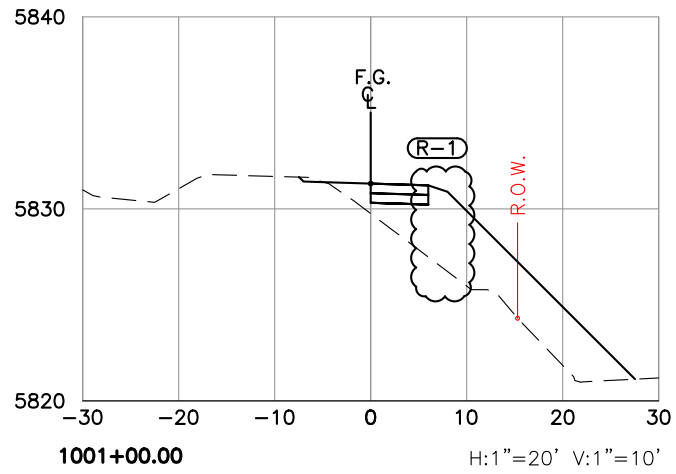
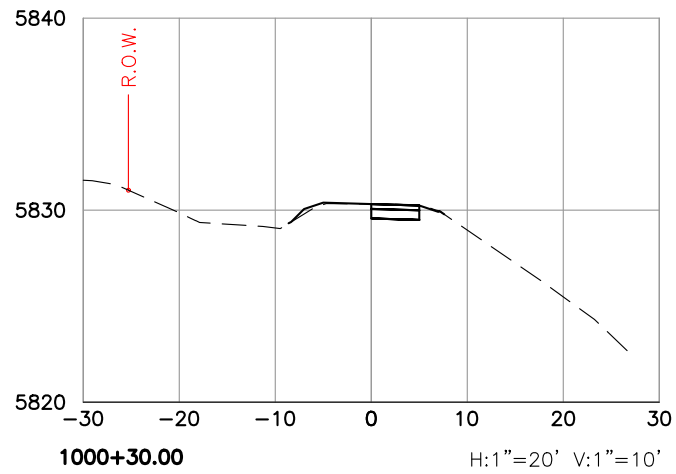
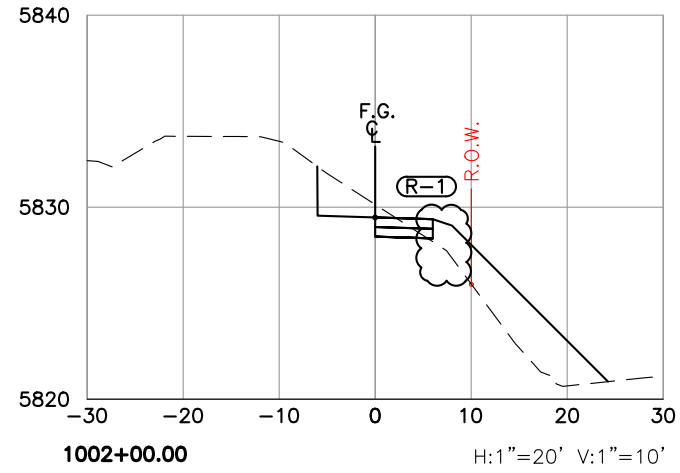
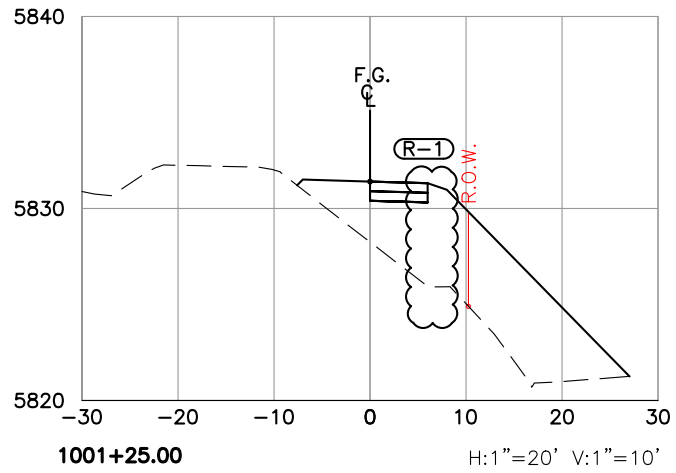
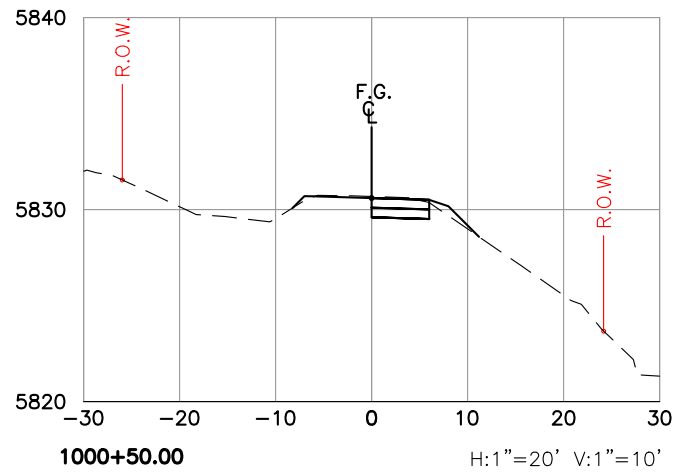
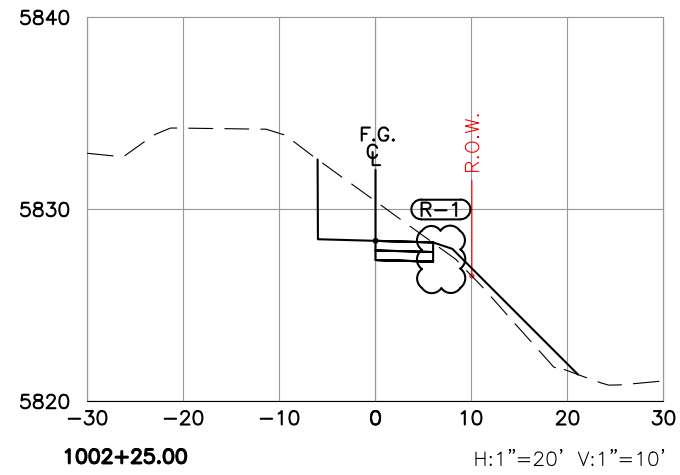
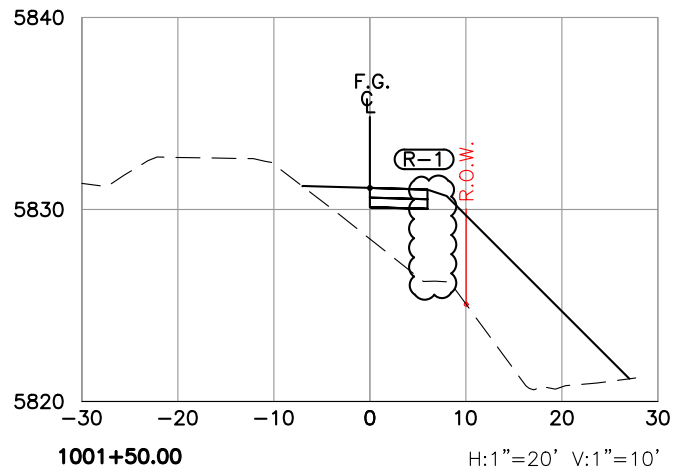
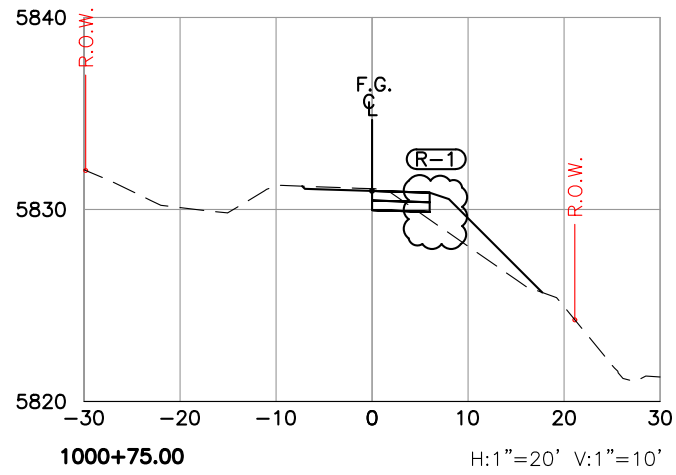


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Revised:
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Engineer:	JSB
Drawn By:	KJD
Sheet Subset:	IRRIG
Structure Numbers	
Subset Sheets:	3 of 8

Project No./Code	MTF M535-007/ 008
	23687 / 23975
Sheet Number	311

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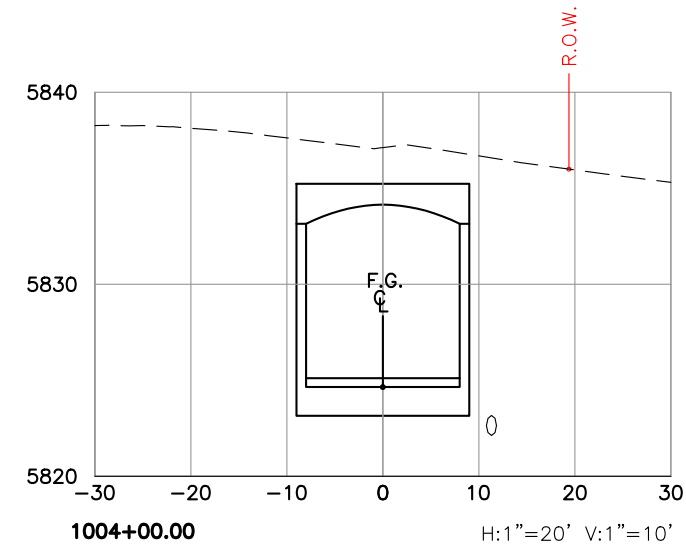
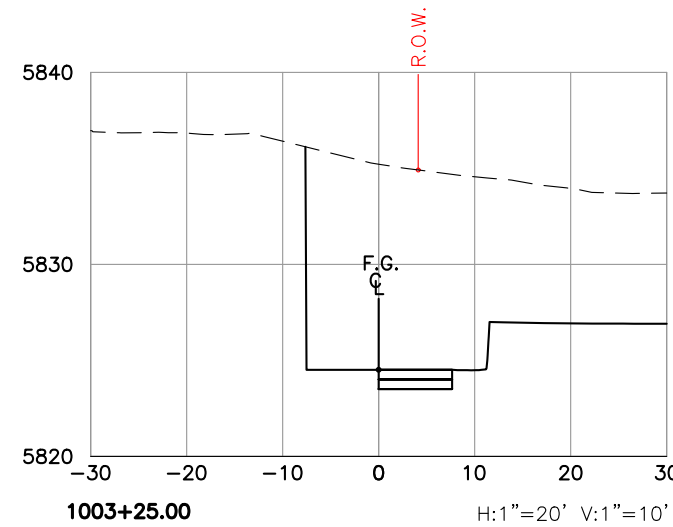
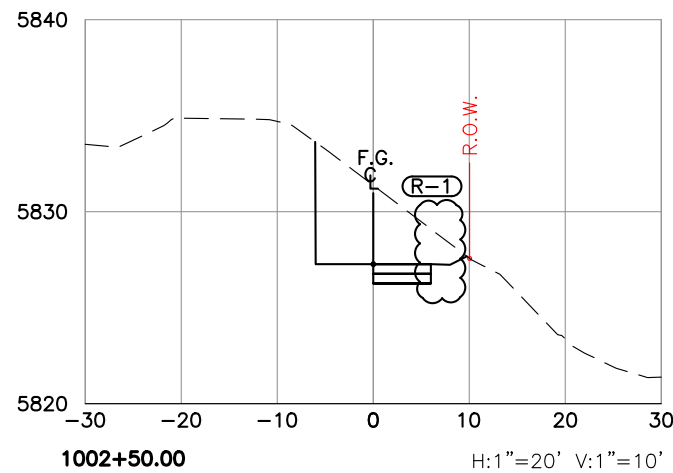
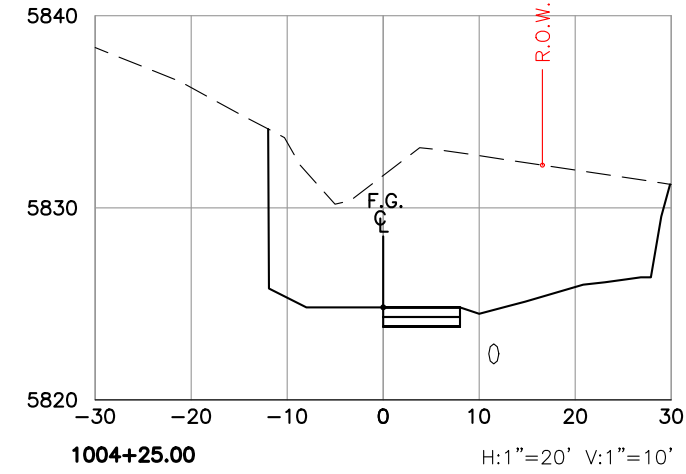
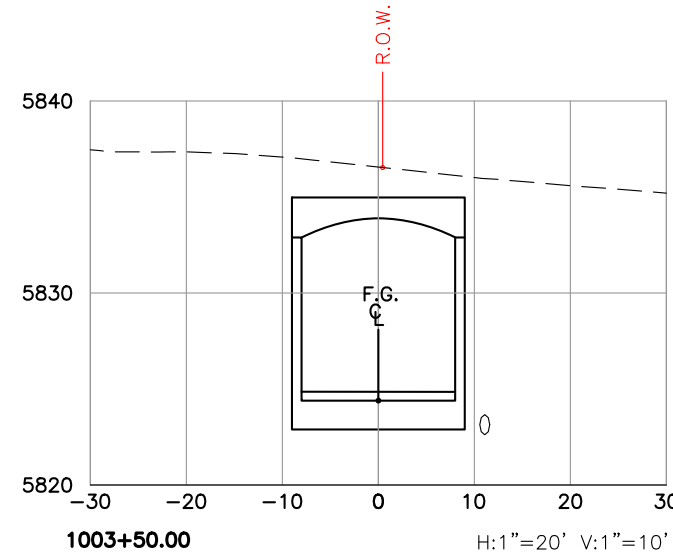
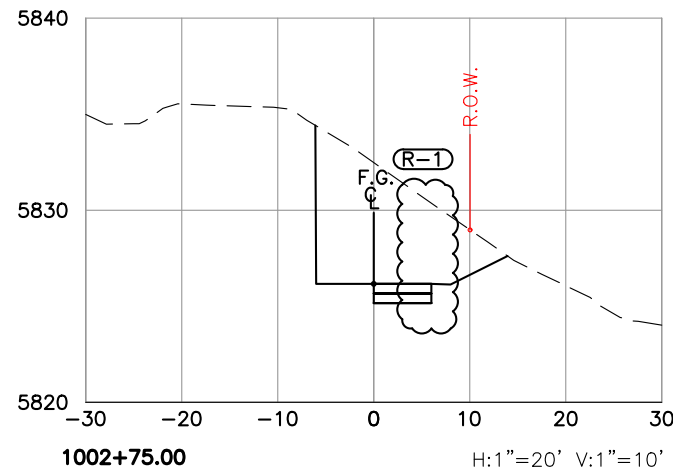
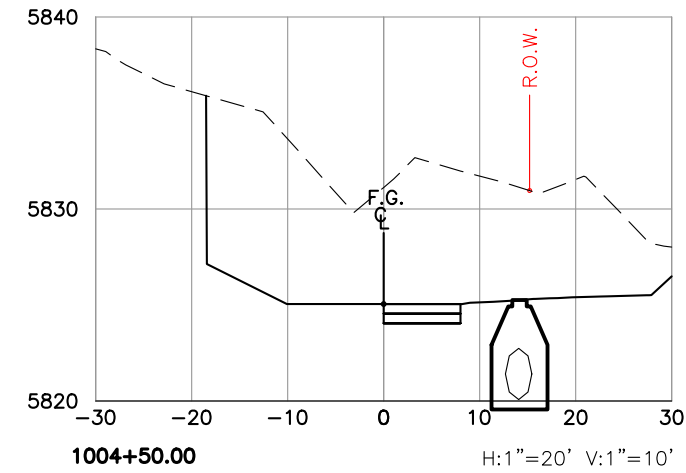
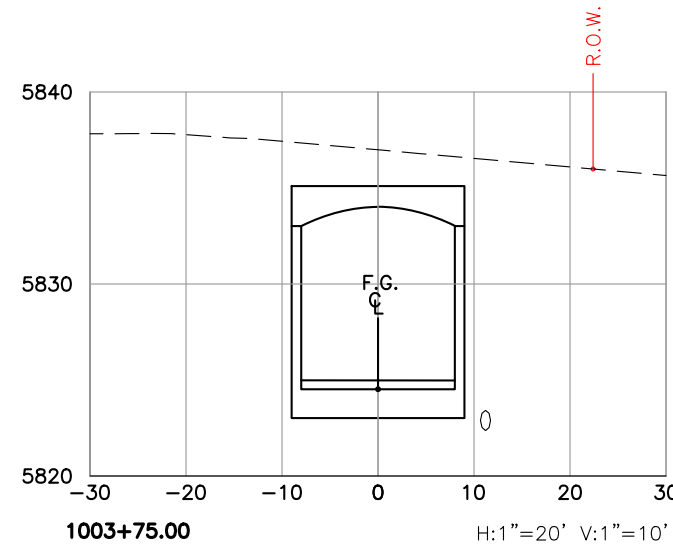
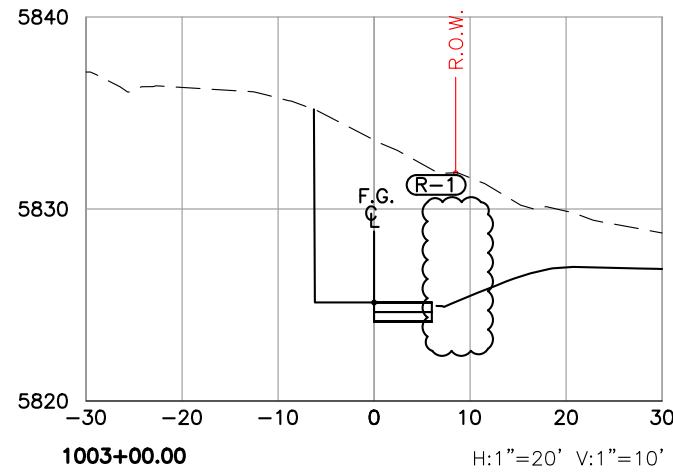


- LEGEND:**
- PROP. WATER
 - PROP. STORM
 - PROP. SEWER



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Print Date: 12/15/21	Last Modification Date: 06/30/21	Rev. 1	Date 12/22/21	Comments ELIMINATED WALLS 1&3			Init. MWM	No Revisions:	Engineer: MDF	Structure Numbers	MTF M535-007 / 008	
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SGM Project No.: 2020-544.001 Quality Control: AMC												

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- LEGEND:**
- PROP. WATER
 - PROP. STORM
 - PROP. SEWER



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SGM Project No.:	2020-544.001 Quality Control: AMC

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Rev.	Date	Comments	Init.
1	12/22/21	ELIMINATED WALL 1&3	MWM

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970.945.1004 www.sgm-inc.com

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Revised:
Void:

27TH ST AND SH82 PEDESTRIAN UNDERPASS RIO GRANDE TRAIL CROSS SECTIONS (2)			
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Drawn By:	MWM	Subset Sheets:	8 of 7
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Project No./Code	
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23687 / 23975	
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