



Purchasing Division

ADDENDUM NO. 1

DATE: July 18, 2017
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: 28 ½ Road Sewer and Water Line Replacement and Overlay IFB-4399-17-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. Are there any CDOT qualification requirements for this project?
 - A. No.
2. **Prebid Meeting Attendance List and Agenda-** See attached.
3. **Updated Construction Plan Set-** See Attached.
4. **Updated Bid Schedule to Include:**
 - a. **Line Item No. 44** – Deleted and Replaced with Aggregate Base Course (Class 6) (10" Thick). Note call out #689 in Plan Set shall be replaced with Class 6 ABC (10" Thick).
 - b. **Line Item No. 58-** Flagging
 - c. **Line Item No. 60** – Geotechnical Testing. Refer to Standard Contract
 - d. Documents for Capital Improvements Construction for further information.
5. **Section 3.3.29 of the Bid Documents has been revised, delete the following:**
 - a. Asphalt Material Transfer Vehicle. The Contractor shall use a materials transfer vehicle in conjunction with belly dump to reduce irregularities in the paving.
6. **Delete Section 3.3.39 of the Bid Documents.**
 - a. Note all striping and appurtenances associated with the project shall be performed by the Contractor. See striping plan in Construction Plan Set for details.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written in a cursive style.

Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado

SIGN-IN SHEET



Solicitation Name: 28 1/2 Road Sewer and Water Line Replacement and Overlay
 Solicitation #: IFB-4399-17-DH
 Date: 7/18/2017
 Time: 10:00am

Company Name	Representative Name	Phone	Email
Traffic Control Specialists	Maria Stone	970 985 9486	Marias@flagandcones.com
MA CONCRETE CONST	JEFF DIMON	243-322 1	MACONCRETE@IMOWEARES.WA.R
K&L Construction	J'Ann Hopkins	970-986-1779	KEVIN@KALCONSTRUCTION/NE.COM
GRAND Jct. PIPE	MICHO HARRIS	243-4604	MICHO.HARRIS@GUTPIPER.COM
Huddleston-Berry	Jason Collard	970-255-8005	ycollard@huddlestonberry.com
HD Supply	Joe Vesco	970-678-7104	Joe.Vesco@HDSupply7.com
RAIN FOR RAIN	DOUG ROGER	970-930-0378	DROGERS@RAINFORRAIN.COM
Grand Junction Minuteman	Cathy Kenny	970 596 6139	ckennedy@winwaterworks.com
M Construction	Charz Weber	970 690-0922	charz@weconst.com
SORTER	William R. Ogilvie	970-242-1436	bill@sorterdigs.com
Elam Construction	Eric Schmitz	970 712 6140	Eric.Schmitz@Elamconstruction.com
Skyline Contracting	John Chutkan	970 434-9121	schutkan@skyconst.com
United Companies	Miles Downs	970-243-4900	miles.downs@oldcastlematerials.com
Western Gravel Constructors	Kameron DeVincentis	970-275-1418	Kameron.devincentis@westerngravel.com

Pre-Bid Meeting Agenda

Date: July 18, 2017
Project: 28 ½ Road Sewer and Water Line Replacement and Overlay Project
Location: City Hall Auditorium
Conducted by: Jerod Timothy, Project Manager

1. Introduction, attendance list.

2. **Pre-Bid Meeting** – Attendance at this pre-bid meeting is mandatory for Contractor's submitting bids to become the general contractor.

3. **Project description** - The project generally consists of the installation of 1,870 lineal feet of waterline, 120 lineal feet of water service line, 2,150 lineal feet of sanitary sewer mainline, 535 lineal feet of sanitary sewer service line, 165 lineal feet storm drain pipe, 8 sanitary sewer manholes, 2 storm drain inlets; approximately 3,250 square yards of asphalt milling (edge mill), approximately 1,150 tons class 6 aggregate base course, and approximately 1,250 tons hot mix asphalt.

4. Project documents

- a. City of Grand Junction Standard Contract Documents, July, 2010 Edition
- b. Project Bid Documents
- c. Project Plan Set
- d. CDOT Standard Specifications for Road and Bridge Construction.

Plans and Bid Documents are available for review or download on the City's Public Works Engineering web page.

5. Bid submittal procedures

- a. Contractor's Bid Form
- b. Price Bid Schedule
- c. Attendance at bid opening is optional
- d. Accepting Electronic Responses **Only** submitted through the Rocky Mountain E-Purchasing System (RMEPS).

6. **Insurance and bonding requirements**

- a. 5% bid bond
- b. Performance and payment bonds (100%)
- c. Insurance in General Conditions

7. **Addenda**

Addendum No. 1 will be issued following this meeting and shall include the following:

- Pre-Bid meeting agenda and attendance list along with all notes and questions that are addressed during meeting.
- Updated **Construction Plan Set** to include plan sheet numbers.
- Updated **Bid Schedule** to include:
 - **Line Item No. 44** – Deleted and Replaced with Aggregate Base Course (Class 6) (10" Thick). Note call out #689 in Plan Set shall be replaced with 10" of Class 6 ABC.
 - **Line Item No. 59** - Geotechnical Testing. Refer to the Standard Contract Documents for Capital Improvements Construction for further information.
- **Section 3.3.29 of the Bid Documents has been revised**, delete the following:
 - Asphalt Material Transfer Vehicle: The Contractor shall use a materials transfer vehicle in conjunction with belly dump to reduce irregularities in the paving.

It's the bidder's responsibility to make sure they have acknowledged all addendums issued for this project. The bidder can find addendums on the City of Grand Junction Engineering website.

8. **Project specific issues**

- a. **Hours of Operations:** The hours of operations for this Project are as follows:
Monday – Friday, 7:00 a.m. to 5:00 p.m.
- b. **Project Start Date:** The project is scheduled begin on Monday, August 28, 2017
- c. **Time of Completion:** The scheduled time of completion for the project is 68 Calendar days from the starting date specified on the Notice to Proceed.

- d. **Special Equipment:** The paver shall be equipped with a 40' ski on any street segment longer than 600 lineal feet of continuous pavement. Auger extensions shall be used when the screed is extended to a width greater than two feet beyond the auger. The auger extensions shall be installed to ensure a constant head of material.
 - e. **Uranium Mill Tailings:** It is anticipated that radioactive mill tailings will be encountered on this Project. The Contractor shall deliver material to City Shops and place in designated clarifier.
 - f. **Incidental Items:** Any item of work not specifically identified or paid for directly, but which is necessary for the satisfactory completion of any paid items of work, will be considered incidental to those items, and will be included in the cost of those items.
9. **Site Visit** - Suggested to all prospective bidders to visit the locations to see what obstacles they may encounter.

10. Questions and Answers:

In the Bid Schedule there is no line item for flagging, is that to be considered incidental or was it missed? A line item for striping is to be adding to the Bid Schedule for flagging.

Bid Schedule: 28 1/2 Road Sewer and Water Line Replacement and Overlay

Addendum No. 1

Contractor: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	104.4	Cap top half of sewer in concrete per std detail GU-04	16.	EA	\$ _____	\$ _____
2	108.2	Water Main (6") (C-900 PVC, DR-18) (Includes cost of connection to existing pipe)	70.	LF	\$ _____	\$ _____
3	108.2	Water Main (8") (C-900 PVC, DR-18) (Includes cost of connection to existing pipe)	1,800.	LF	\$ _____	\$ _____
4	108.2	102.9/108.2 - 4" Gravity Sewer Pipe (SDR 35 PVC). Includes Type A Bedding and Haunching Material and Backfill of Trench with Native Materials Meeting 103.16 Earth Backfill Material.	535.	LF	\$ _____	\$ _____
5	108.2	102.9/108.2 - 8" Gravity Sewer Pipe (SDR 35 PVC). Includes Type A Bedding and Haunching Material and Backfill of Trench with Native Materials Meeting 103.16 Earth Backfill Material.	1,200.	LF	\$ _____	\$ _____
6	108.2	102.9/108.2 - 10" Gravity Sewer Pipe (SDR 35 PVC). Includes Type A Bedding and Haunching Material and Backfill of Trench with Native Materials Meeting 103.16 Earth Backfill Material.	950.	LF	\$ _____	\$ _____
7	108.2	8" Storm Drain Pipe (PVC)	165.	LF	\$ _____	\$ _____
8	108.3	Gate Valve (6")	4.	EA	\$ _____	\$ _____
9	108.3	Gate Valve (8")	5.	EA	\$ _____	\$ _____
10	108.3	Tee (8" x 6")	4.	EA	\$ _____	\$ _____
11	108.3	Tee (8" x 8")	3.	EA	\$ _____	\$ _____
12	108.3	Elbow (6" x 45deg)	3.	EA	\$ _____	\$ _____
13	108.3	Elbow (8" x 45deg)	5.	EA	\$ _____	\$ _____
14	108.3	End Cap/Plug	5.	EA	\$ _____	\$ _____
15	108.3	Reducer (8" x 6")	4.	EA	\$ _____	\$ _____
16	108.3	Fire Hydrant	3.	EA	\$ _____	\$ _____
17	108.3	4" Sewer Service Tap (Full Body Wye w/ Street 45°)	30.	EA	\$ _____	\$ _____
18	108.4	3/4" Tapping Saddle	22.	EA	\$ _____	\$ _____
19	108.4	3/4" Corporation Stop	22.	EA	\$ _____	\$ _____

Bid Schedule: 28 1/2 Road Sewer and Water Line Replacement and Overlay

Addendum No. 1

Contractor: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
20	108.4	3/4" Water Service Line (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	110.	LF	\$ _____	\$ _____
21	108.4	1" Tapping Saddle	1.	EA	\$ _____	\$ _____
22	108.4	1" Corporation Stop	1.	EA	\$ _____	\$ _____
23	108.4	1" Water Service Line (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	10.	LF	\$ _____	\$ _____
24	108.5	48" Sanitary Sewer MH (Drop)	1.	EA	\$ _____	\$ _____
25	108.5	48" Sanitary Sewer MH	7.	EA	\$ _____	\$ _____
26	108.5	48" Sanitary Sewer MH Barrel Section	20.	LF	\$ _____	\$ _____
27	108.5	Connect to Existing Manhole (storm)	1.	EA	\$ _____	\$ _____
28	108.6	Single Storm Drain Inlet (large area Inlet)	2.	EA	\$ _____	\$ _____
29	202	Uranium Mill Tailings Removal	130.	CY	\$ _____	\$ _____
30	202	Removal of Asphalt Mat (Edge Mill) (1" to 2")	600.	SY	\$ _____	\$ _____
31	202	Removal of Asphalt Mat (Edge Mill) (0" to 2")	850.	SY	\$ _____	\$ _____
32	202	Removal of Asphalt Mat (Edge Mill) (0" to 1")	1,800.	SY	\$ _____	\$ _____
33	202	Removal of Asphalt Mat (Full Depth)	2,785.	SY	\$ _____	\$ _____
34	202	Removal of Concrete. Saw Cut and Remove Concrete as Shown (Indicated by cross hatch pattern)(Includes but not limited to curb, gutter, sidewalk driveway, slabs, v-pans curb ramps, intersection corners, aprons, and underlying street concrete)	20.	SY	\$ _____	\$ _____
35	202	Removal of Water Valve	2.	EA	\$ _____	\$ _____
36	202	Abandon Water Valve	5.	EA	\$ _____	\$ _____
37	202	Removal of Pipe (12" and smaller)	2,770.	LF	\$ _____	\$ _____
38	202	Removal of Manhole	8.	EA	\$ _____	\$ _____
39	203	Potholing	40.	HR	\$ _____	\$ _____
40	213	Washed Rock Surface Course for Gravel Driveways. Match Existing Type. Thickness is 2" min. and 3" max.	7.	CY	\$ _____	\$ _____
41	304	Subgrade Stabilization (Class 3 Aggregate Base Course) BF-2 (2 of 3)	152.	Tons	\$ _____	\$ _____

Bid Schedule: 28 1/2 Road Sewer and Water Line Replacement and Overlay

Addendum No. 1

Contractor: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
42	304	Aggregate Base Course (Class 6)(8" thick))(Water Trench (663))	320.	SY	\$ _____	\$ _____
43	304	Aggregate Base Course (Class 6)(8" thick))(San Sew Trench (663))	1,520.	SY	\$ _____	\$ _____
44	304	Aggregate Base Course (Class 6)(10" thick) (689)	1,060.	SY	\$ _____	\$ _____
45	401	Hot Mix Asphalt (2" Thick) (Grading SX-75)(Binder 64-22)(Overlay entire width 28.5 Road)	900.	Tons	\$ _____	\$ _____
46	401	Hot Mix Asphalt (1" Thick) (Grading SX-75)(Binder 64-22)(Bottom mat in widening areas only to include subgrade prep.))	50.	Tons	\$ _____	\$ _____
47	401	Hot Mix Asphalt (3" Thick) (Grading SX-75)(Water Trench (681))	330.	SY	\$ _____	\$ _____
48	401	Hot Mix Asphalt (3" Thick) (Grading SX-75)(San Sew Trench (681))	1,515.	SY	\$ _____	\$ _____
49	608	Concrete Drainage Pan	6.	LF	\$ _____	\$ _____
50	608	Monolithic Curb Gutter and Sidewalk (6' Wide)	12.	SY	\$ _____	\$ _____
51	608	Concrete Driveway (8" Thick)	4.	SY	\$ _____	\$ _____
52	620	Sanitary Facility	1.	lump	\$ _____	\$ _____
53	625	Construction Surveying Complete in Place	1.	lump	\$ _____	\$ _____
54	626	Mobilization	1.	lump	\$ _____	\$ _____
55	629	Reference and Reset Survey	1.	EA	\$ _____	\$ _____
56	630	Traffic Control Plan	1.	lump	\$ _____	\$ _____
57	630	Traffic Control (Complete In Place)	1.	lump	\$ _____	\$ _____
58	630	Flagging	160.	Hour	\$ _____	\$ _____
59	SP - 1	Striping (Per Plan)	1.	lump	\$ _____	\$ _____
60	SP-2	Geotechnical Testing - Refer to STANDARD CONTRACT DOCUMENTS FOR CAPITAL IMPROVEMENTS, PAGES RB 1 THROUGH 4.	1.	lump	\$ _____	\$ _____
MCR		Minor Contract Revisions	---	---	---	\$ 37,000.00

Bid Amount: \$ _____

Bid Amount: _____ **dollars**

28 1/2 ROAD - SEWER LINE REPLACEMENT WATER LINE REPLACEMENT AND PAVING PLAN

June, 2017

- 1 Cover Sheet
- 2 Standard Abbreviations, Legend, and Symbols
- 3 Project Control Plan
- 4-9 Sanitary Sewer Plan and Profile
- 10-15 Water Line Plan and Profile
- 16 Storm Drain Plan and Profile
- 17-19 Typical Cross Sections
- 20-22 Roadway Milling Plan
- 23-27 Roadway Paving Plan and Profile
- 28-38 Roadway Cross Sections
- 39-41 Roadway Striping
- 42 Storm Water Management Plan



Know what's below.
Call before you dig.

NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS BEFORE ANY EXCAVATION. ALL UTILITY LINES THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.

AGENCY		NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
GRAND JUNCTION, CITY OF	JUSTIN VENSEL		PROJECT ENGINEER	PROJECT ENGINEER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 201-1359	(970) 256-4022
GRAND JUNCTION, CITY OF	LEE COOPER		PROJECT ENGINEER	SANITARY SEWER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 256-4155	(970) 256-4022
GRAND VALLEY IRRIGATION CO	PHIL BERTRAND		MANAGER	IRRIGATION	688 26 ROAD	688 26 ROAD	GRAND JCT., CO 81506	(970) 242-2762	
CHARTER	JEFF VALDEZ		ENGINEER	CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-8803
U.S. WEST/WEST	CHRIS JOHNSON		ENGINEER	TELEPHONE	2324 BUCHMANN AVE	2324 BUCHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
LITE WATER	JUSTIN BATES		SUPERVISOR	WATER	PO BOX 480		GRAND JCT., CO 81502	(970) 242-7491	(970) 242-9189
XCEL	SEE BERNAN		UNIT MANAGER	GAS, ELECTRIC	2338 BUCHMANN AVE	2338 BUCHMANN AVE	GRAND JCT., CO 81506	(970) 244-2654	(970) 244-2651

UTILITIES AND AGENCIES

AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
GRAND JUNCTION, CITY OF	JUSTIN VENSEL		PROJECT ENGINEER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 201-1359	(970) 256-4022
GRAND JUNCTION, CITY OF	LEE COOPER		PROJECT ENGINEER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 256-4155	(970) 256-4022
GRAND VALLEY IRRIGATION CO	PHIL BERTRAND		MANAGER	688 26 ROAD	688 26 ROAD	GRAND JCT., CO 81506	(970) 242-2762	
CHARTER	JEFF VALDEZ		ENGINEER	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-8803
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REVISION	DATE	DESCRIPTION	DATE	DATE	DATE	DATE

SCALE	DATE	DATE	DATE	DATE

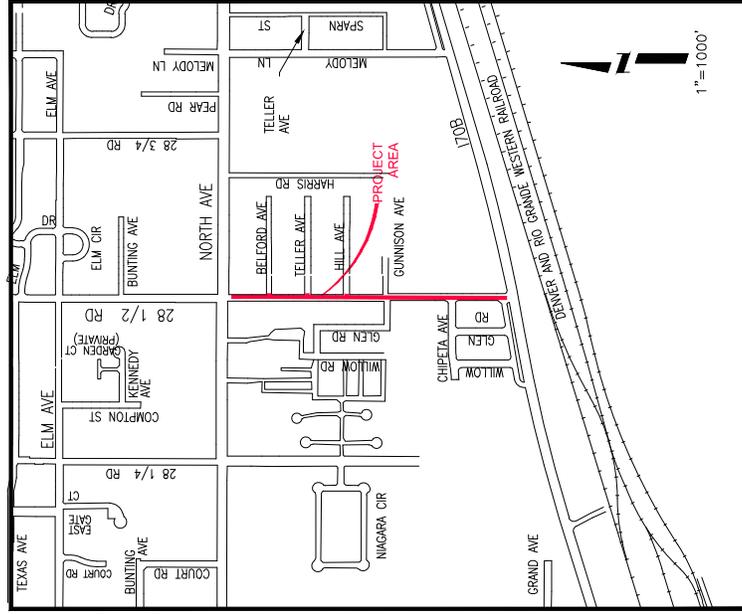
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DESIGNED BY: JCS
CHECKED BY: JLV
APPROVED BY: TOP

DATE: 2017
DATE: 2017
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DATE: 2017

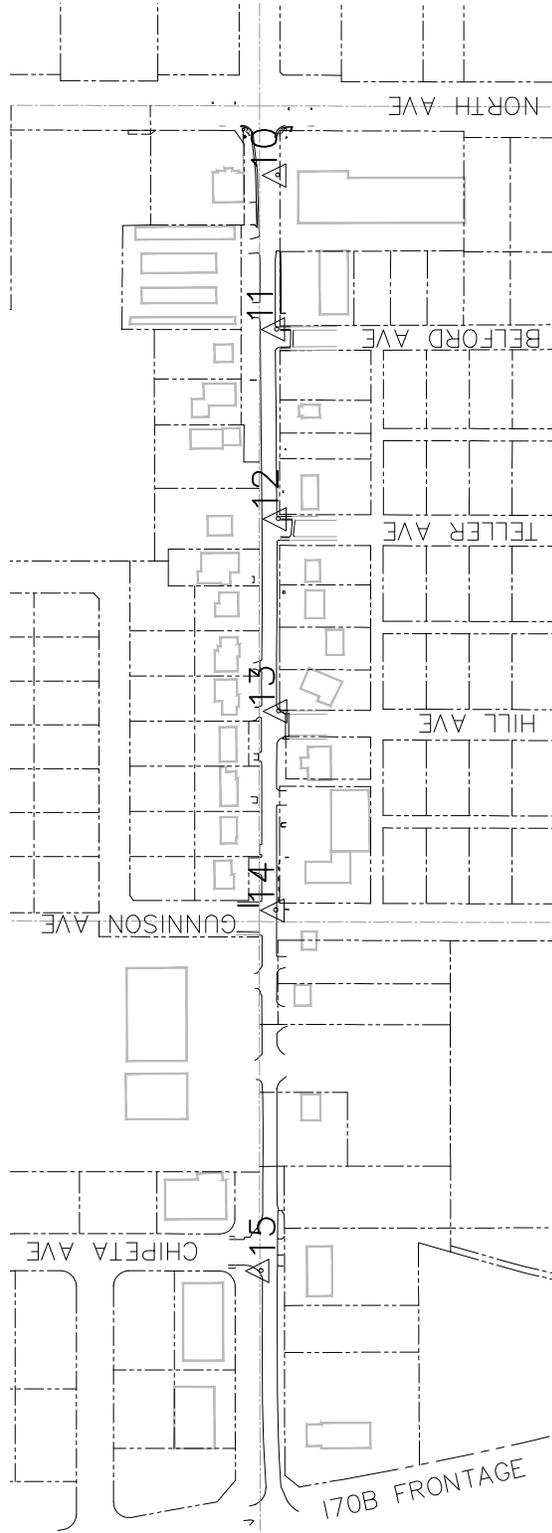


PUBLIC WORKS
ENGINEERING DIVISION

COVER SHEET



VICINITY MAP



CONTROL POINT DATA

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11	39088.756	102659.231	4625.971	SET PK NAIL
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13	38471.073	102662.477	4621.364	SET PK NAIL
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15	37565.533	102633.761	4615.653	SET PK NAIL

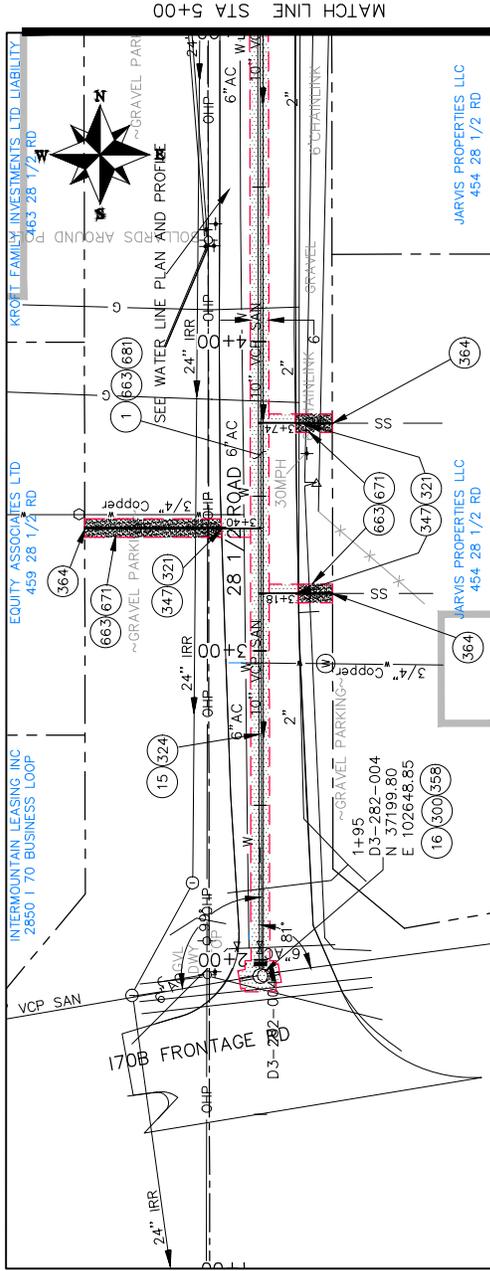
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REVISION A	2017	
REVISION B	2017	
REVISION C	2017	
REVISION D	2017	

DATE	BY	DATE	BY
DATE 2017	JCS	DATE 2017	JCS
DATE 2017	JCS	DATE 2017	JCS
DATE 2017	JUV	DATE 2017	JUV
DATE 2017	TOP	DATE 2017	TOP

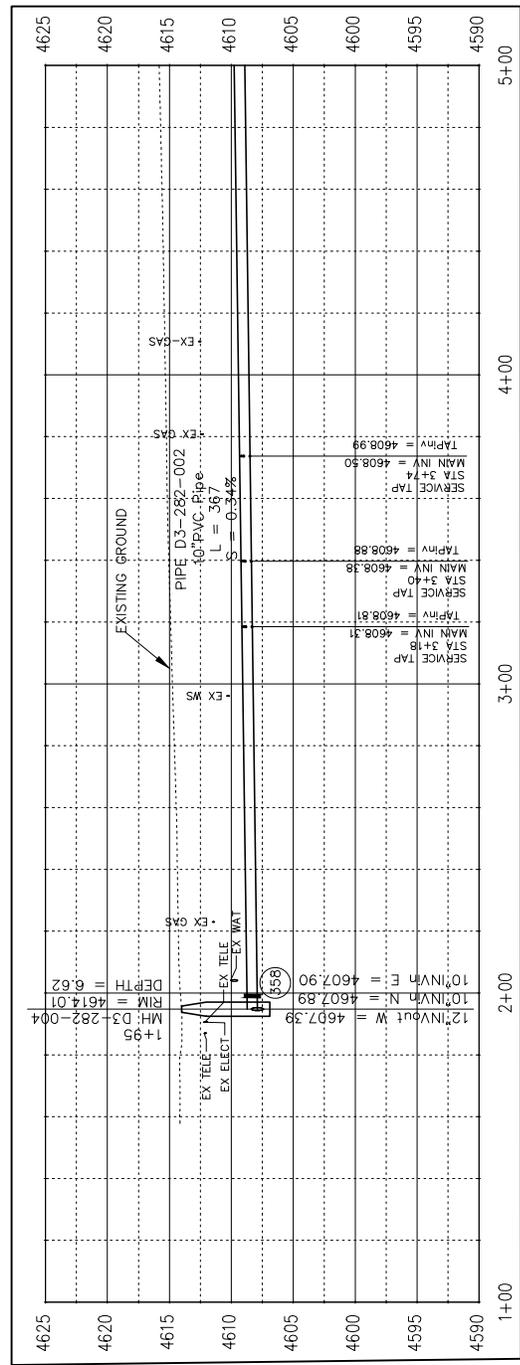


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ENGINEERING DIVISION

28 1/2 Road
Control Plan



MATCH LINE STA 5+00



CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 324 102.9/108.2 - 10" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)

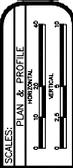
SEE PAVING PLANS FOR PAVING DATA



KEYMAP

28 1/2 Road Sanitary Sewer from I70B to North Ave

PUBLIC WORKS ENGINEERING DIVISION

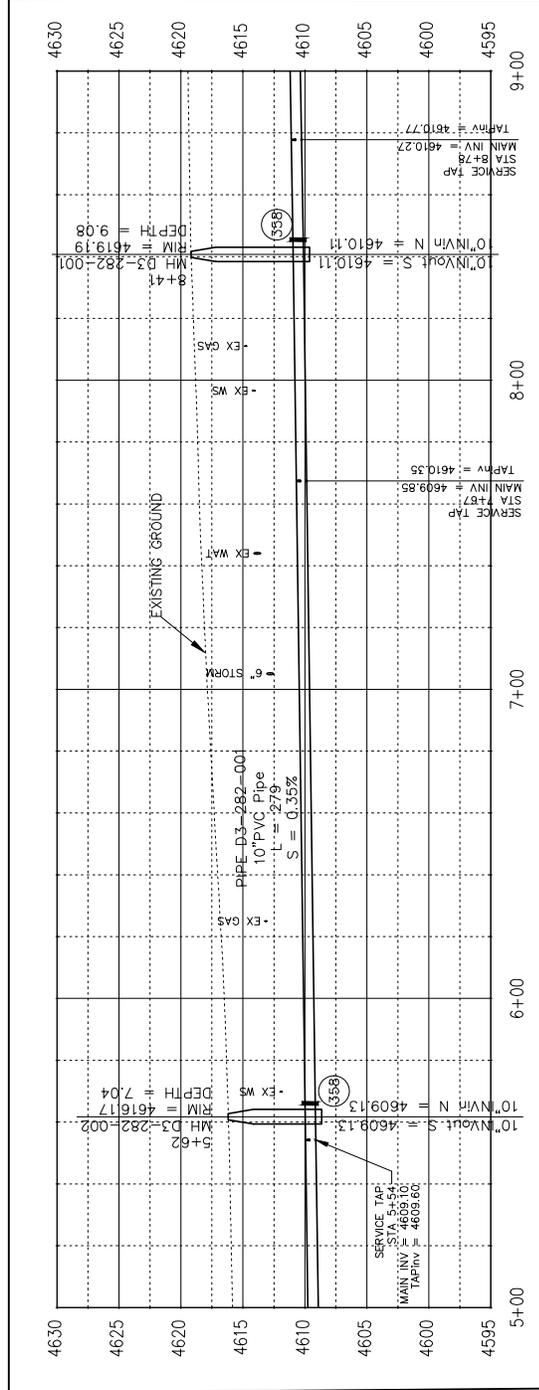
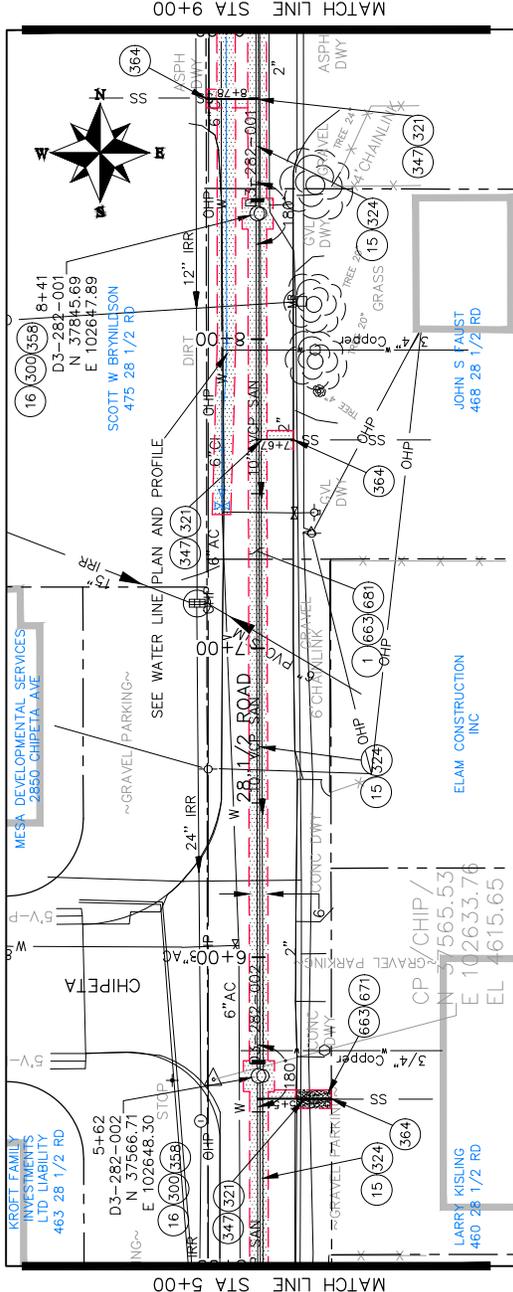


DESIGNED BY JCS	DATE 2017
CHECKED BY JCS	DATE 2017
APPROVED BY JCS	DATE 2017

REVISION A XXX	DATE 2017
REVISION B XXX	DATE 2017
REVISION C XXX	DATE 2017
REVISION D XXX	DATE 2017

CONSTRUCTION NOTES

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SEE PAVING PLANS FOR PAVING DATA



KEYMAP

SCALE: PLAN & PROFILE
1" = 40'

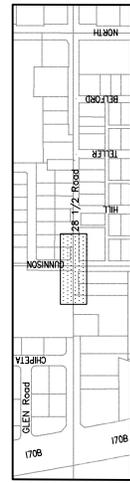
DATE 2017	DESIGNED BY JCS
DATE 2017	CHECKED BY JUV
DATE 2017	APPROVED BY TDP

REVISION A XXX	DATE 2017
REVISION B XXX	DATE 2017
REVISION C XXX	DATE 2017
REVISION D XXX	DATE 2017

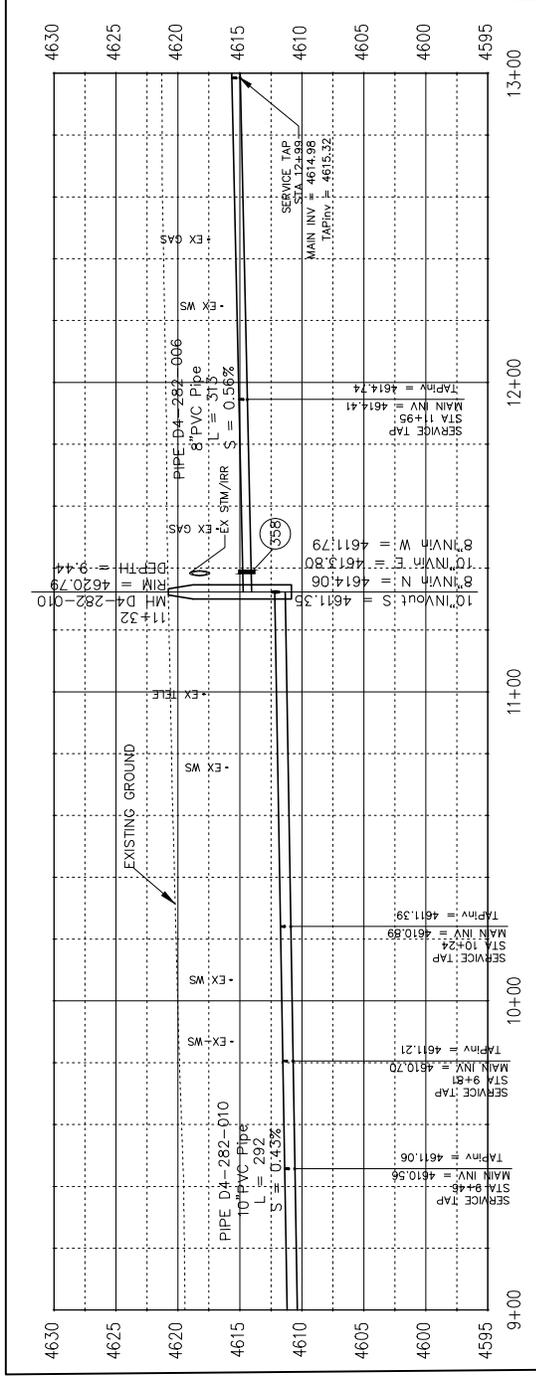
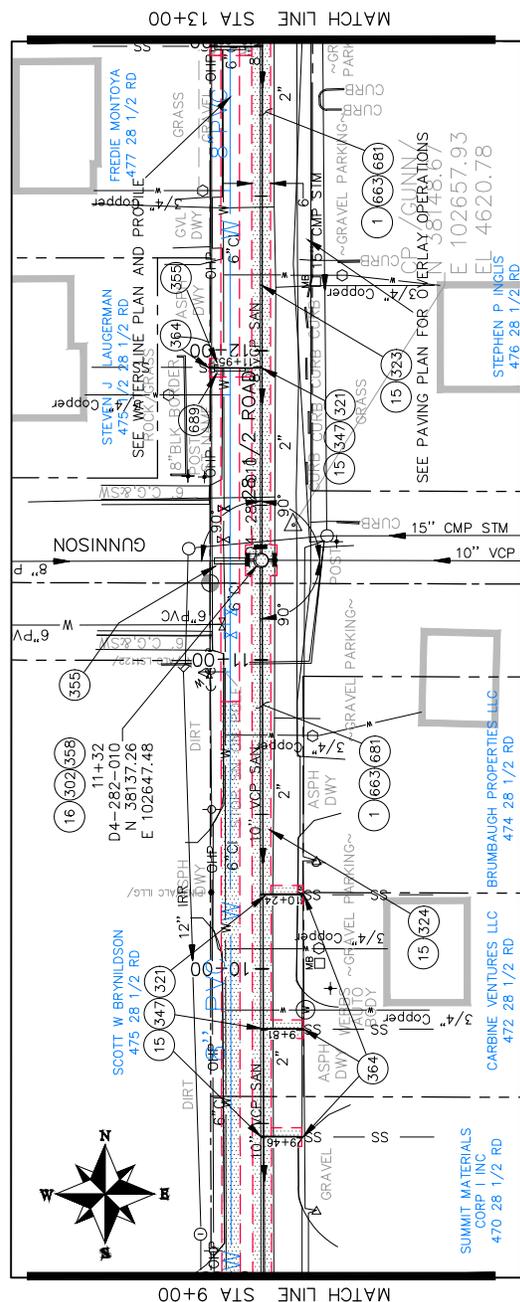
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- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND RETURN TO CITY SHOPS.
- 302 102.11/108.5 - SANITARY SEWER BASIC DROP MANHOLE (48" I.D.). INCLUDES MANHOLE COATING AS PER 102.11. (SEE STD. DETAIL SS-04).
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 324 102.9/108.2 - 10" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06). 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER ABOVE GU-04. (WATER LINE LESS THAN 18" DEPTH SEWER LINE)
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACTOR SHALL VERIFY THE EXISTING PIPE SIZE AND CONNECTION TO EXISTING PIPELINE
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)

SEE PAVING PLANS FOR PAVING DATA



KEYMAP



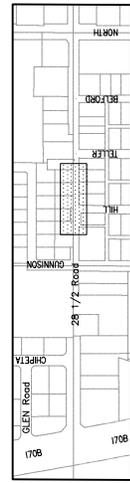
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DESIGNED BY JCS	DESIGNED BY JCS
CHECKED BY JUV	CHECKED BY JUV
APPROVED BY TDP	APPROVED BY TDP

DATE 2017	DATE 2017
DESIGNED BY JCS	DESIGNED BY JCS
CHECKED BY JUV	CHECKED BY JUV
APPROVED BY TDP	APPROVED BY TDP

CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
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- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
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- 347 102.9/108.3 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06).
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SEE PAVING PLANS FOR PAVING DATA

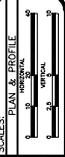


KEYMAP

28 1/2 Road Sanitary Sewer from I70B to North Ave

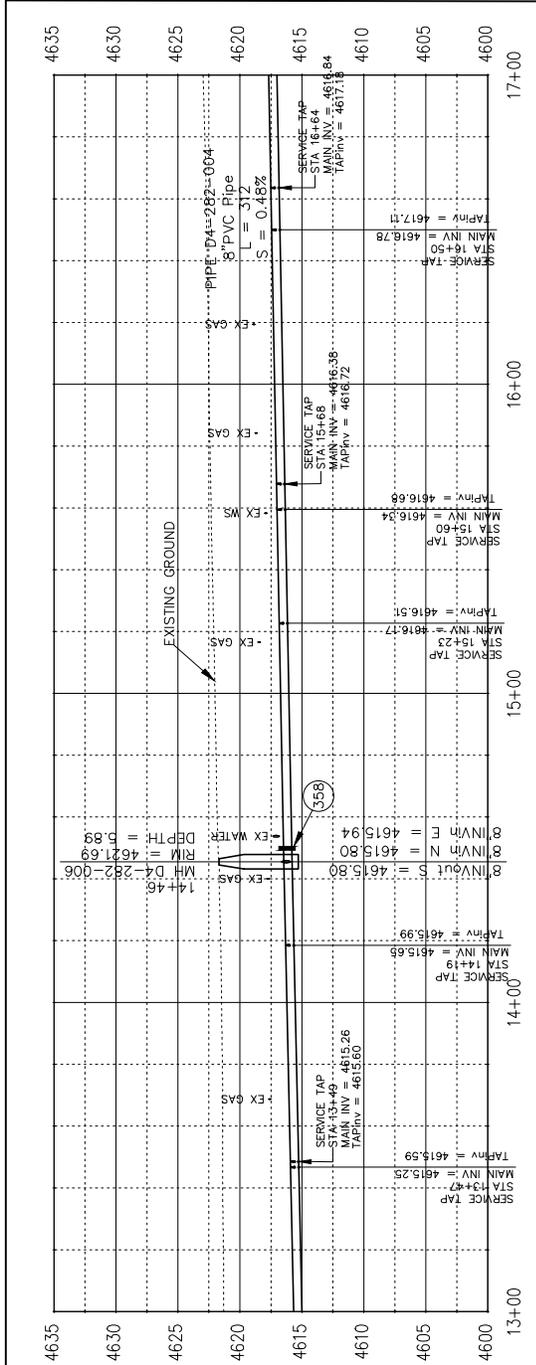
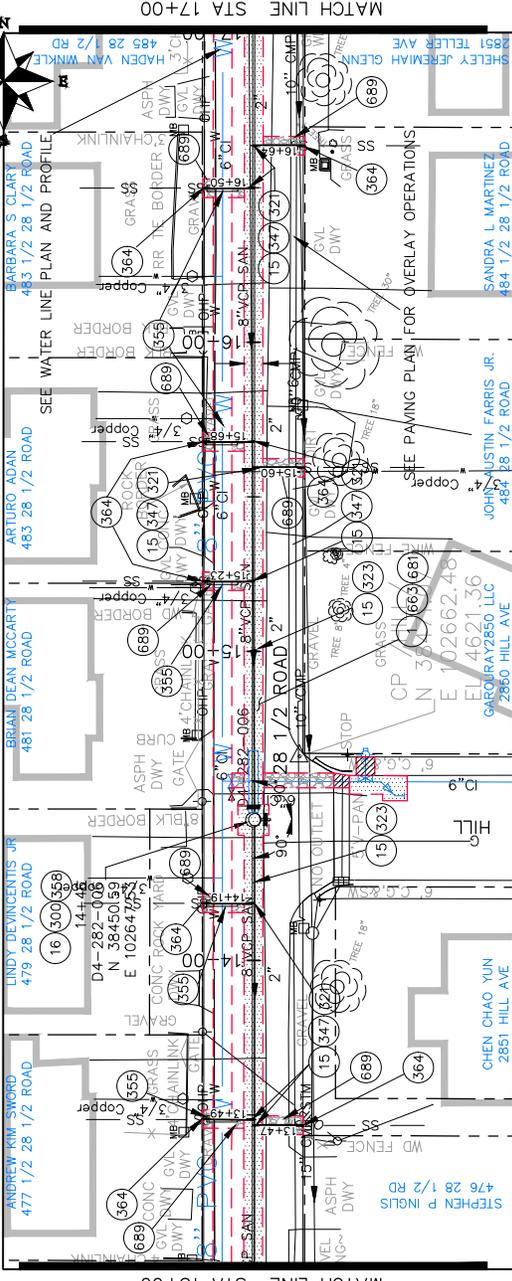
PUBLIC WORKS ENGINEERING DIVISION

Grand Junction
CITY OF GRAND JUNCTION, COLORADO



DATE	BY	DESCRIPTION
2017	JCS	DRAWN
2017	JCS	DESIGNED
2017	JCS	CHECKED
2017	JCS	APPROVED

REVISION	DATE	DESCRIPTION
2017	JCS	DATE 2017



CONSTRUCTION NOTES

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- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.), INCLUDING CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
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SEE PAVING PLANS FOR PAVING DATA



KEYMAP

28 1/2 Road Sanitary Sewer from I70B to North Ave

PUBLIC WORKS ENGINEERING DIVISION

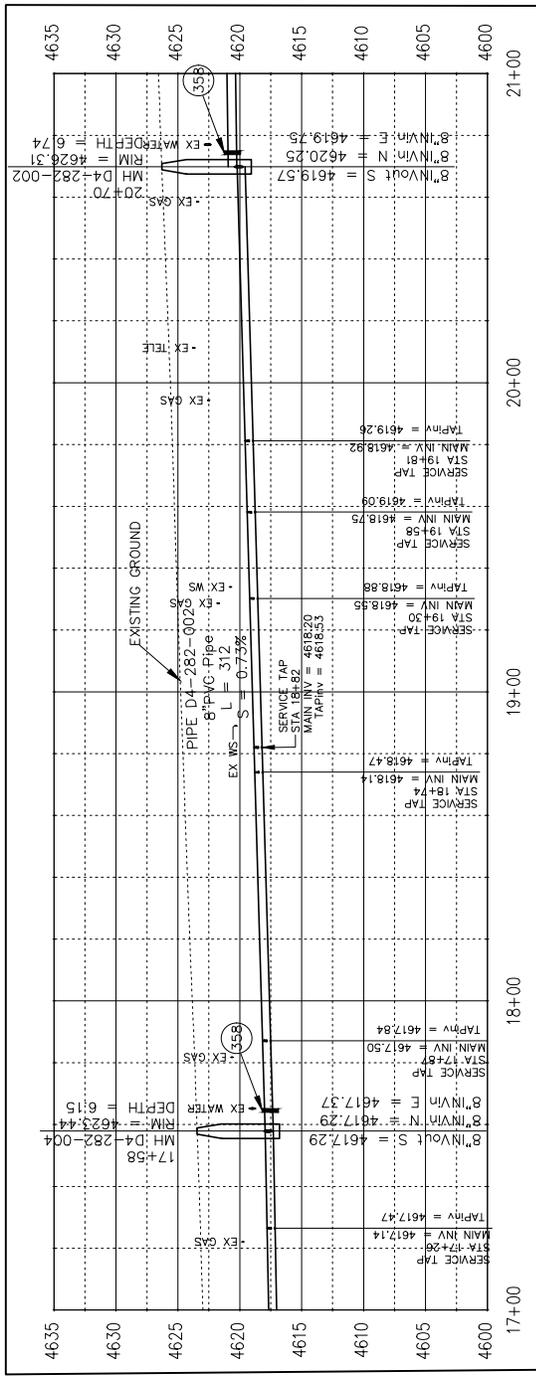
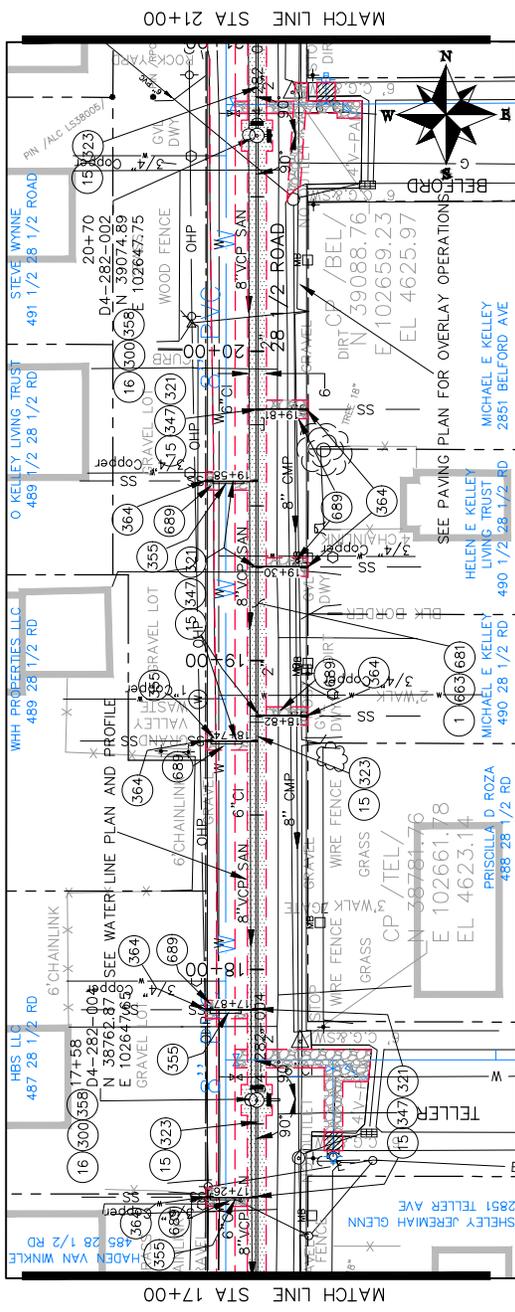


SCALES: PLAN & PROFILE

PLAN	1" = 40'
PROFILE	1" = 4'

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DRAWN BY	JCS	DATE	2017
DESIGNED BY	JCS	DATE	2017
CHECKED BY	JUV	DATE	2017
APPROVED BY	TOP	DATE	2017

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REVISION C	XXX
REVISION D	XXX



CONSTRUCTION NOTES

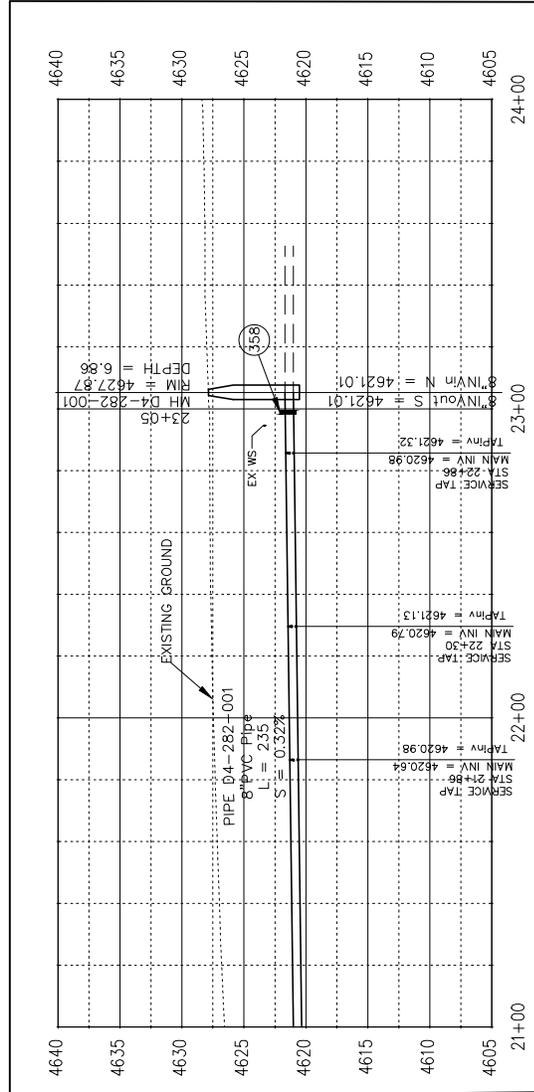
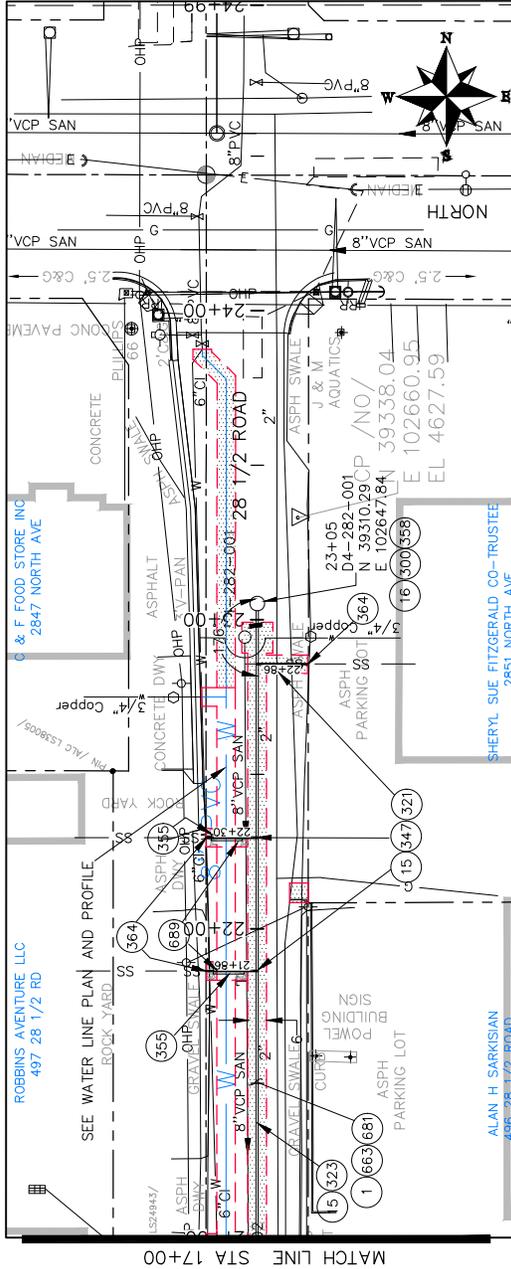
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SEE PAVING PLANS FOR PAVING DATA



KEYMAP

28 1/2 Road Sanitary Sewer from I70B to North Ave



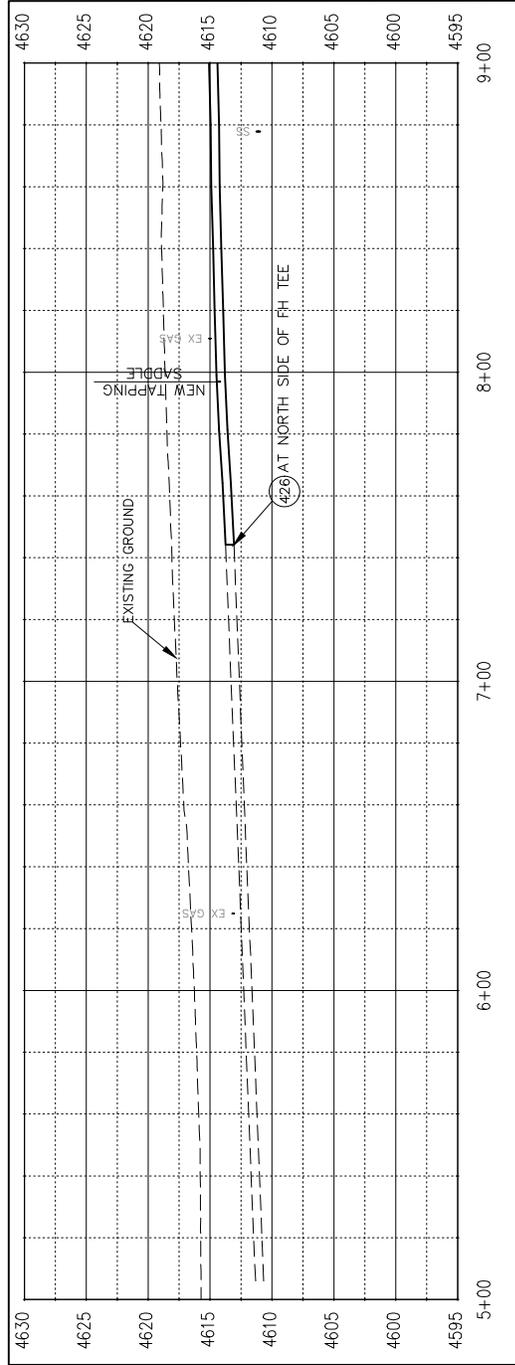
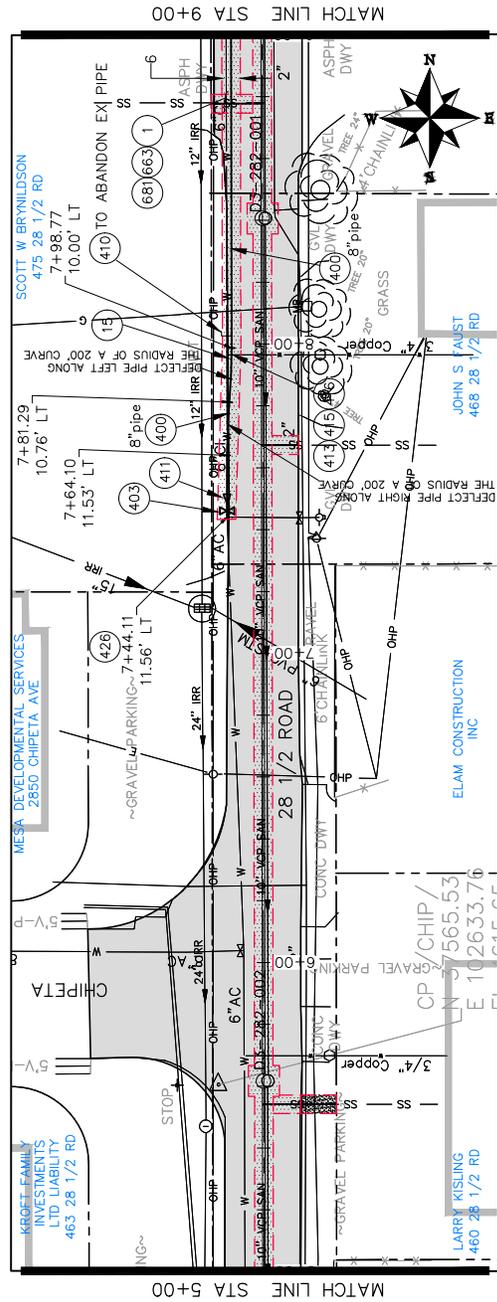
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REVISION B XXX	2017	JCS	
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REVISION E XXX	2017	JCS	

SCALE: PLAN & PROFILE 1" = 40' (HORIZONTAL) 1" = 4' (VERTICAL)

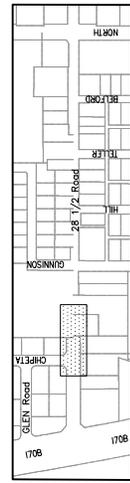
Grand Junction
COLORADO

PUBLIC WORKS
ENGINEERING DIVISION

9



- CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN, (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS.
 - 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN) INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 403 102.86/108.3 - GATE VALVE. (SIZE AS SHOWN)
 - 410 END CAP/PLUG (SIZE AS SHOWN)
 - 411 102.8/108.3 - REDUCER (SIZE AS SHOWN)
 - 412 102.86/108.3 - FIRE HYDRANT
 - 413 102.76/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
 - 415 102.86/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
 - 416 102.81/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
 - 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
 - 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)



28 1/2 Road Water Line Plan
from I70B to North and Hill, Teller, & Beiford West

PUBLIC WORKS
ENGINEERING DIVISION

CITY OF
Grand Junction
COLORADO

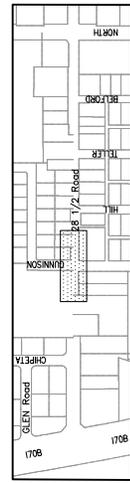
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SECTION	2017	JCS
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CONSTRUCTION NOTES

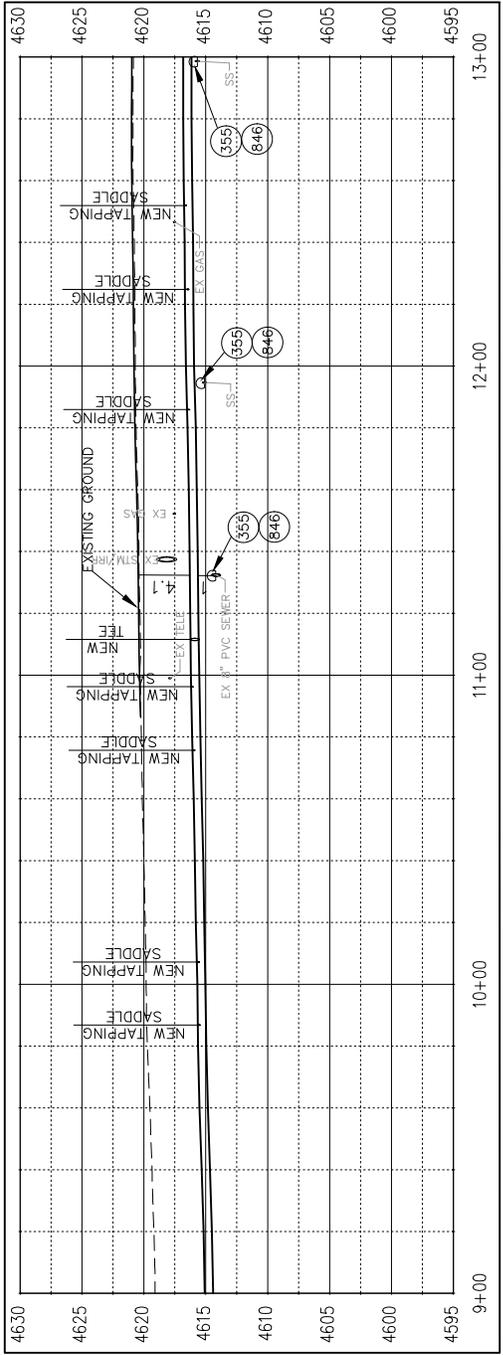
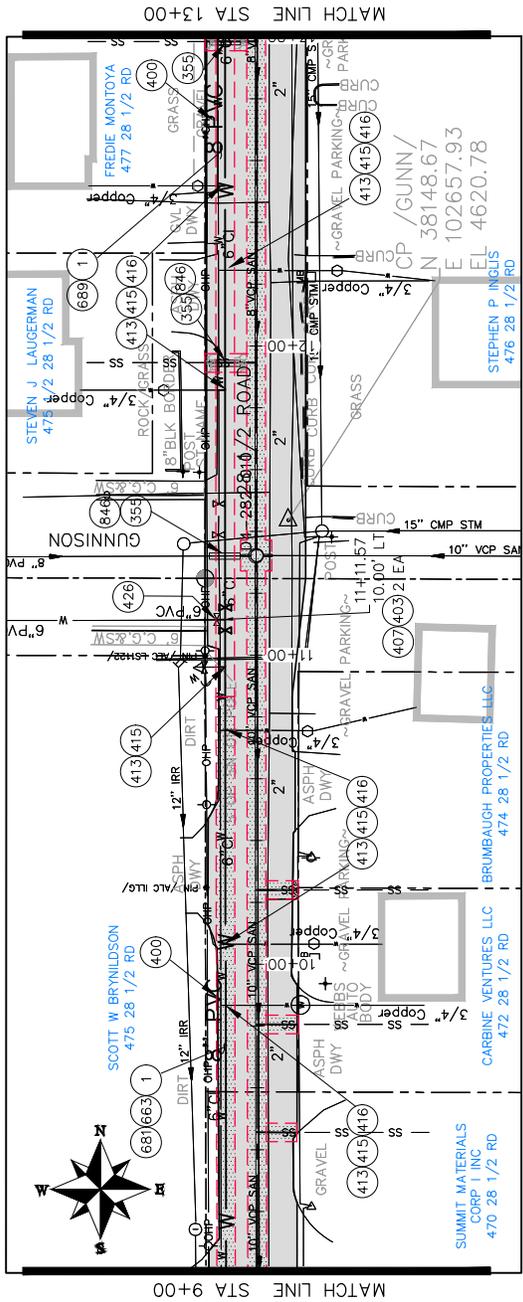
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
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SEE PAVING PLANS FOR PAVING DATA



KEYMAP

28 1/2 Road Water Line Plan
from 170B to North and Hill, Teller, & Beiford West



PUBLIC WORKS
ENGINEERING DIVISION



DESCRIPTION	DRAWN BY	DATE
REVISION A XXX	JCS	DATE 2017
REVISION B XXX	JCS	DATE 2017
REVISION C XXX	JCS	DATE 2017
REVISION D XXX	JCS	DATE 2017
REVISION E XXX	JCS	DATE 2017
REVISION F XXX	JCS	DATE 2017
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CONSTRUCTION NOTES

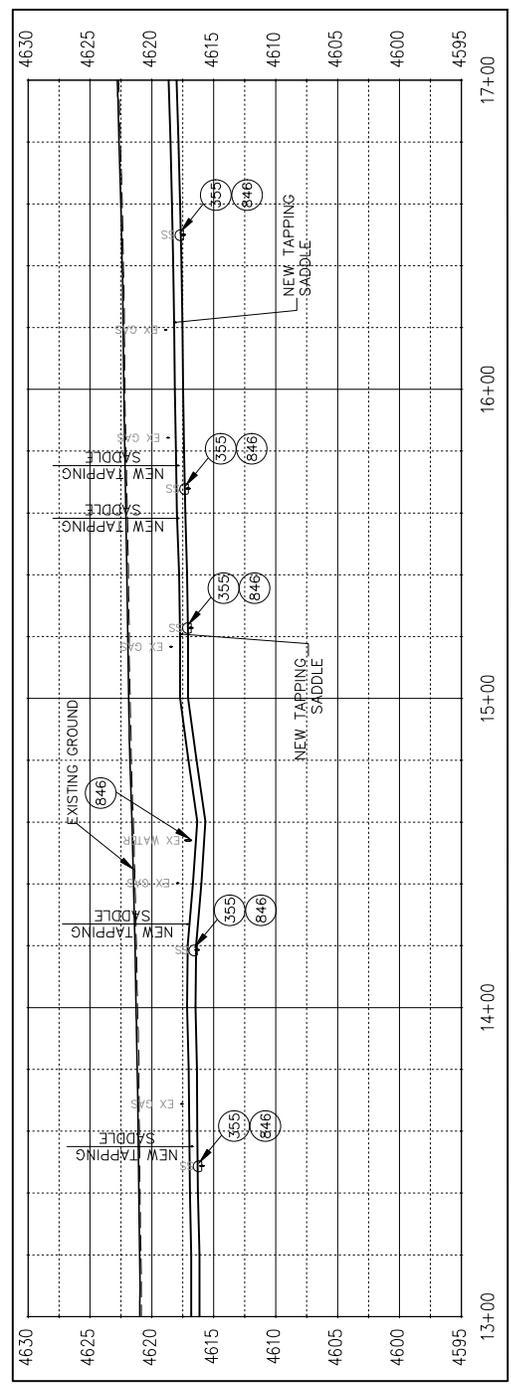
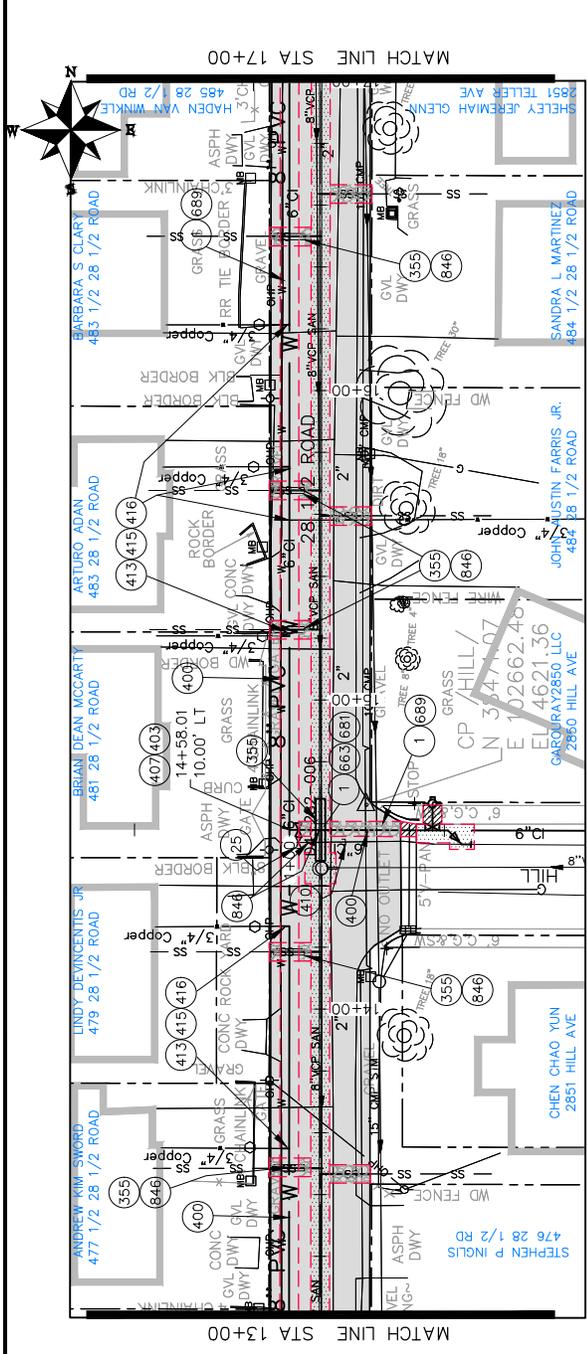
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KEYMAP

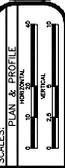
12
28 1/2 Road Water Line Plan
from 170B to North and Hill, Teller, & Belford West



PUBLIC WORKS
ENGINEERING DIVISION

CITY OF
Grand Junction
COLORADO

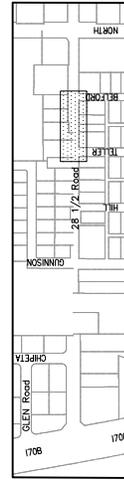
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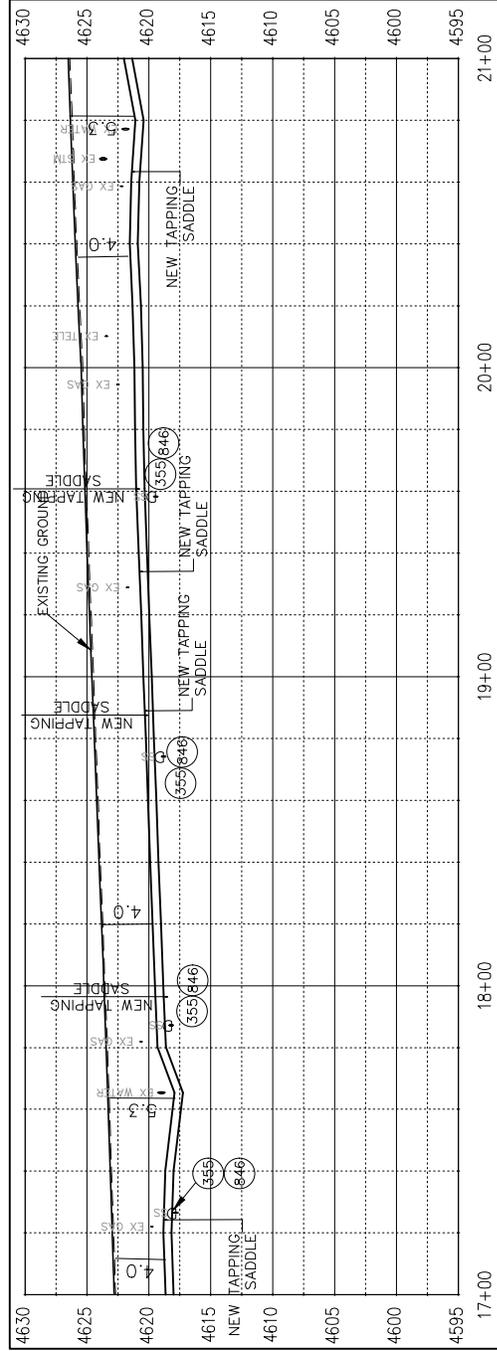
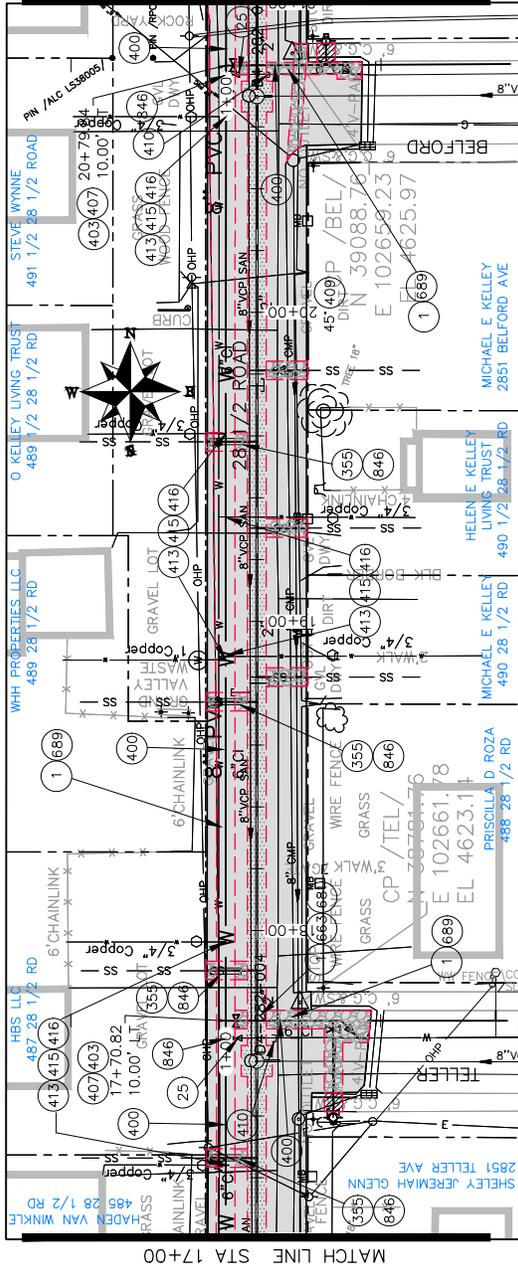
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- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
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- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
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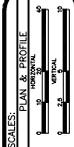
SEE PAVING PLANS FOR PAVING DATA



KEYMAP



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REVISION C XXX	2017	JCS	DATE 2017
REVISION D XXX	2017	JCS	DATE 2017



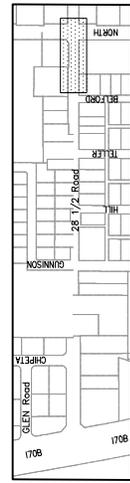
SCALES: PLAN & PROFILE
1" = 20'
1" = 10'

CITY OF
Grand Junction
COLORADO
PUBLIC WORKS
ENGINEERING DIVISION

CONSTRUCTION NOTES

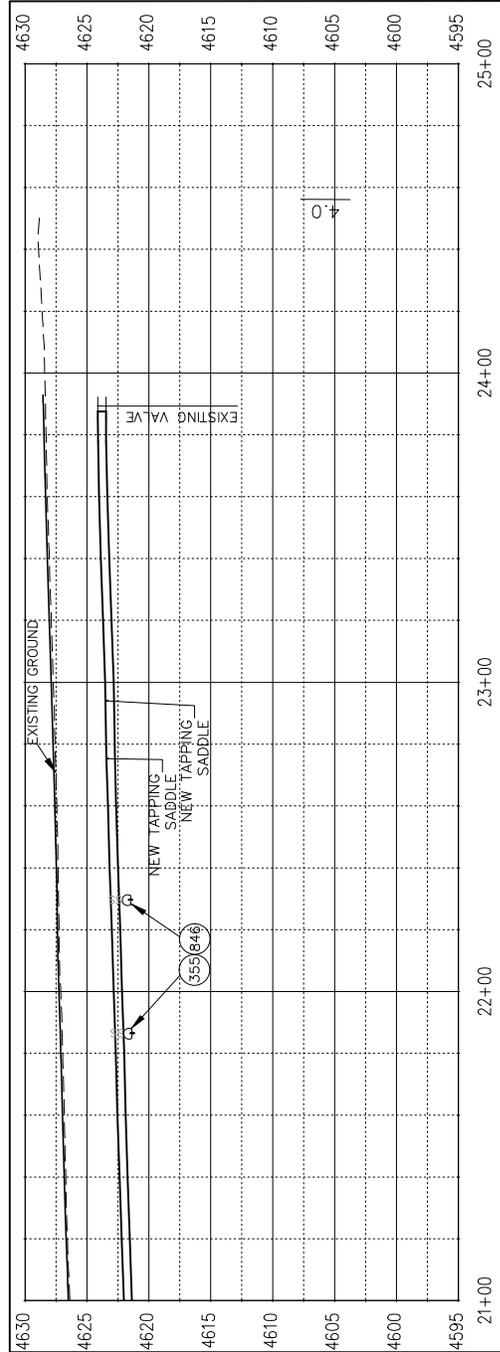
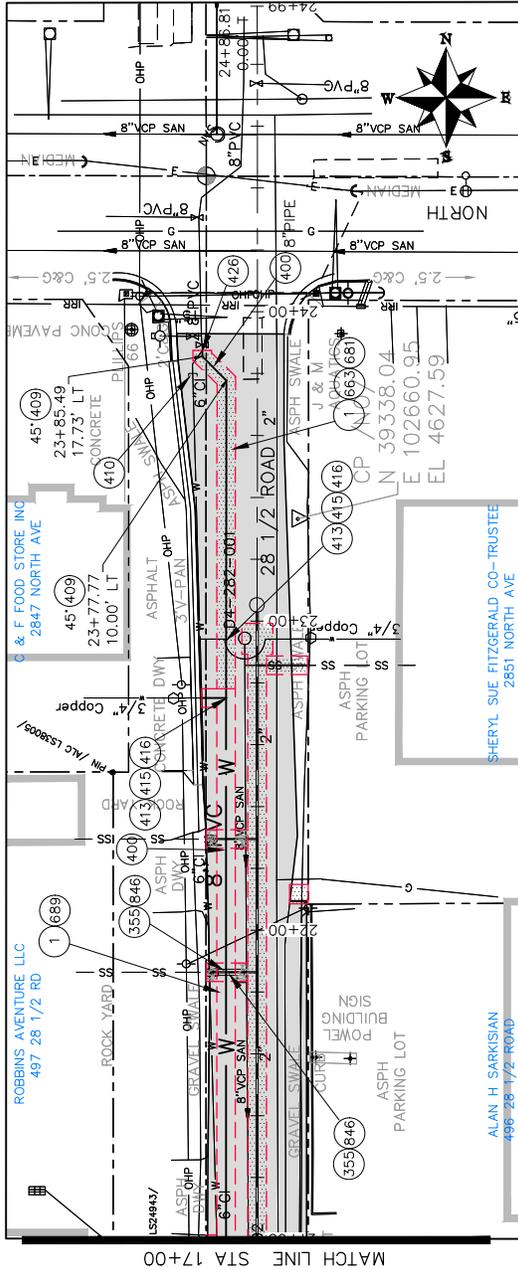
- 1 202 - REMOVAL OF ASPHALT MAT, CUT AND REMOVE ASPHALT AS SHOWN, (INDICATED BY DOT HATCH PATTERN)
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04 (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 410 END CAP/PLUG (SIZE AS SHOWN)
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 688 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
- 846 POT HOLE EXISTING UTILITY AHEAD OF CONSTRUCTION. TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 18" CLEARANCE MINIMUM ABOVE SEWER PIPES AND 6" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITY LINES.

SEE PAVING PLANS FOR PAVING DATA



KEYMAP

28 1/2 Road Water Line Plan
from 170B to North and Hill, Teller, & Beiford West



PUBLIC WORKS
ENGINEERING DIVISION

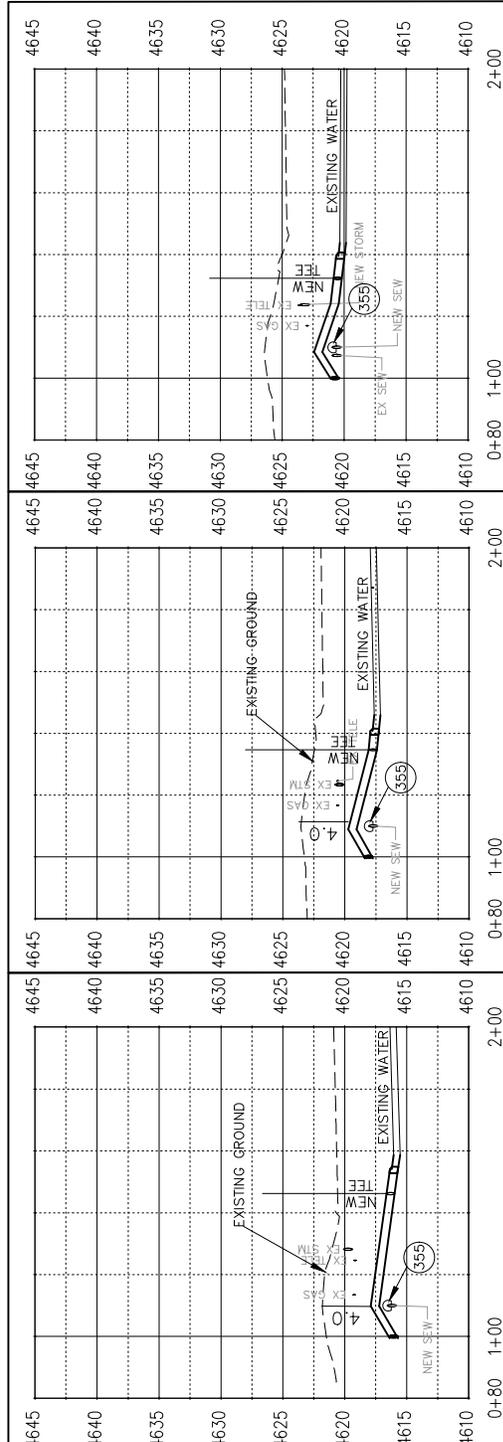
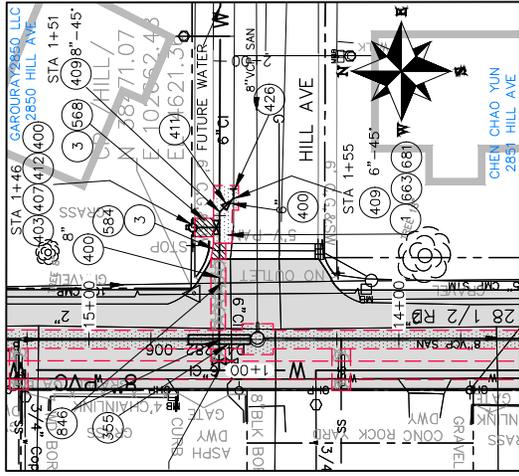
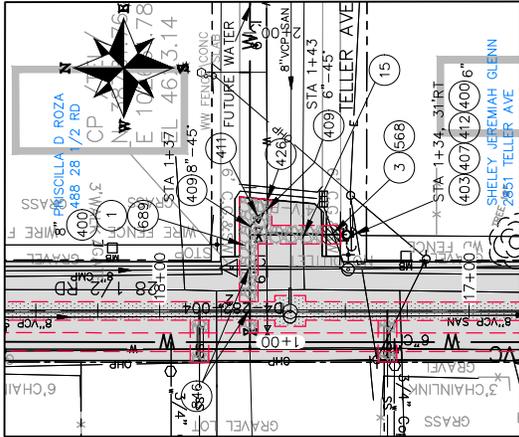
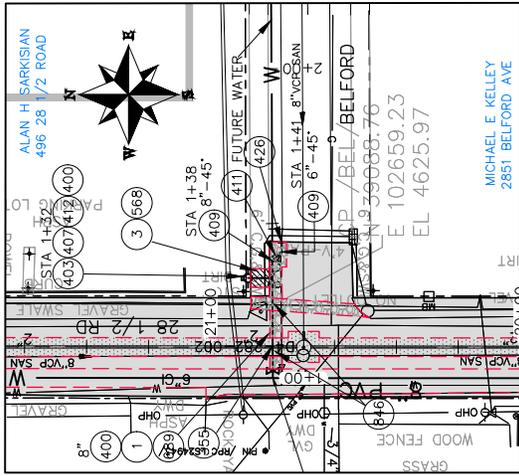
CITY OF
Grand Junction
COLORADO

REVISION	DATE	DESCRIPTION
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REVISION B XXX	2017	
REVISION C XXX	2017	
REVISION D XXX	2017	

SCALE	DATE	APPROVED BY
PLAN & PROFILE	DATE 2017	JCS
SECTION	DATE 2017	JCS
AS BUILT	DATE 2017	JCS
AS BUILT	DATE 2017	JCS

CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18")
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 411 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- 412 102.8b/108.3 - FIRE HYDRANT
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 568 608.06 - MONOLITHIC VERTICAL CURB; GUTTER AND SIDEWALK (6" WIDE)
- 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
- 584 608.06 - CONCRETE DRAINAGE PAN (5' WIDE)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
- 846 POTHOLE EXISTING UTILITY AHEAD OF CONSTRUCTION. TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 18" CLEARANCE MINIMUM ABOVE SEWER PIPES AND 6" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITY LINES.



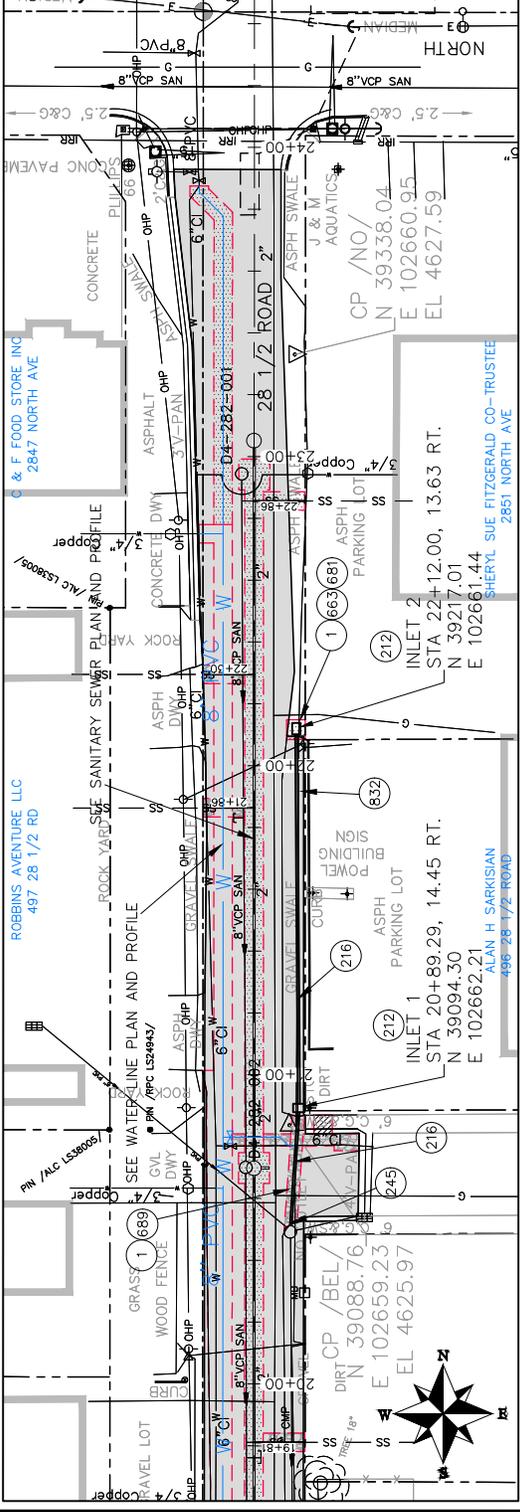
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REVISION B	2017	DATE 2017
REVISION C	2017	DATE 2017
REVISION D	2017	DATE 2017

SCALE	DATE	BY
SCALE: PLAN & PROFILE	DATE 2017	BY JCS
SCALE: SECTION	DATE 2017	BY JCS
SCALE: DETAIL	DATE 2017	BY JCS

CITY OF
Grand Junction
COLORADO

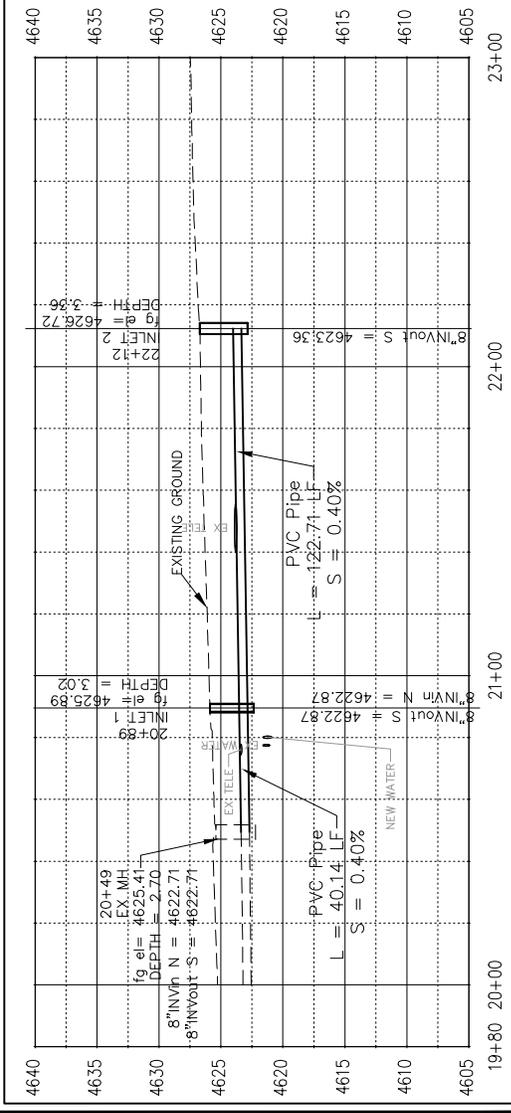
PUBLIC WORKS
ENGINEERING DIVISION

28 1/2 Road Water Line Plan
from 170B to North and Hill, Teller, & Belford West

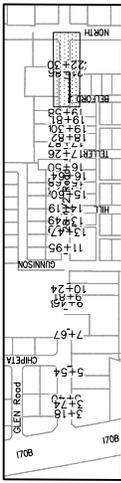


CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. INDICATED BY DOT HATCH PATTERN)
- 212 102.13/108.6 - LARGE AREA INLET (SEE CITY OF GRAND JUNCTION STANDARD DETAIL D-10).
- 216 102.10/108.2 - 8" STORM DRAIN PIPE (PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 245 102.13/108.6 - CONNECT TO EXISTING STORM DRAIN INLET OR MANHOLE (8" PIPE). (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-08).
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
- 832 RESET TELEPHONE LINE (BY OTHERS).



SEE PAVING PLANS FOR PAVING DATA

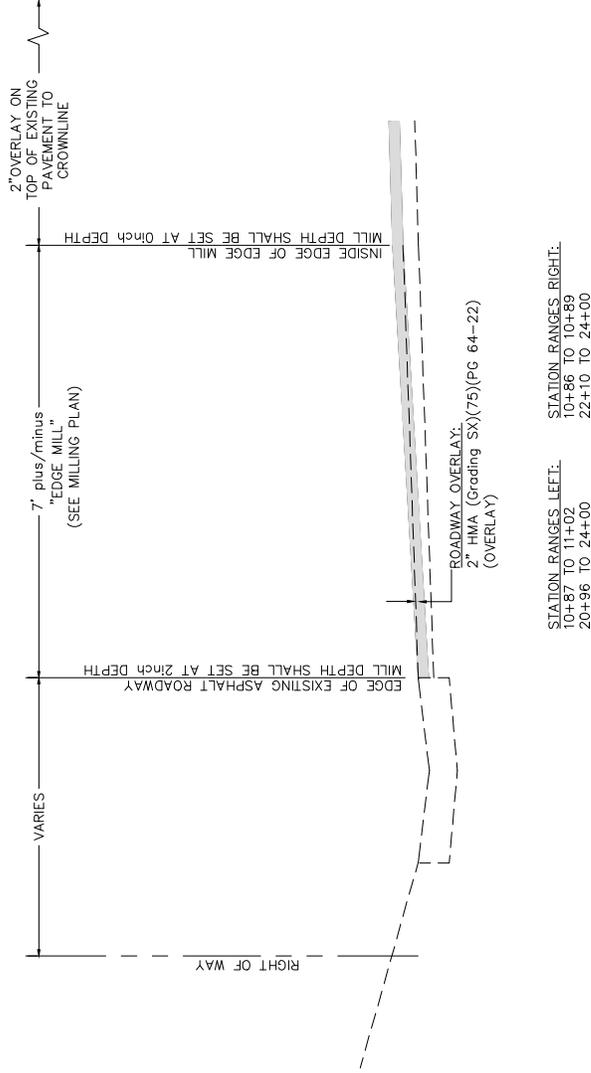


KEYMAP

SCALES: PLAN & PROFILE: 1" = 40' (PLAN), 1" = 10' (PROFILE)

DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY
2017	DESIGNED	JCS	JCS	JCS
2017	CHECKED	JCS	JCS	JCS
2017	APPROVED	JCS	JCS	JCS

DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY
2017	DESIGNED	JCS	JCS	JCS
2017	CHECKED	JCS	JCS	JCS
2017	APPROVED	JCS	JCS	JCS



28 1/2 ROAD
 TYPICAL SECTION FOR OVERLAY TO EXISTING EDGE OF PAVEMENT
 (right side same as left)

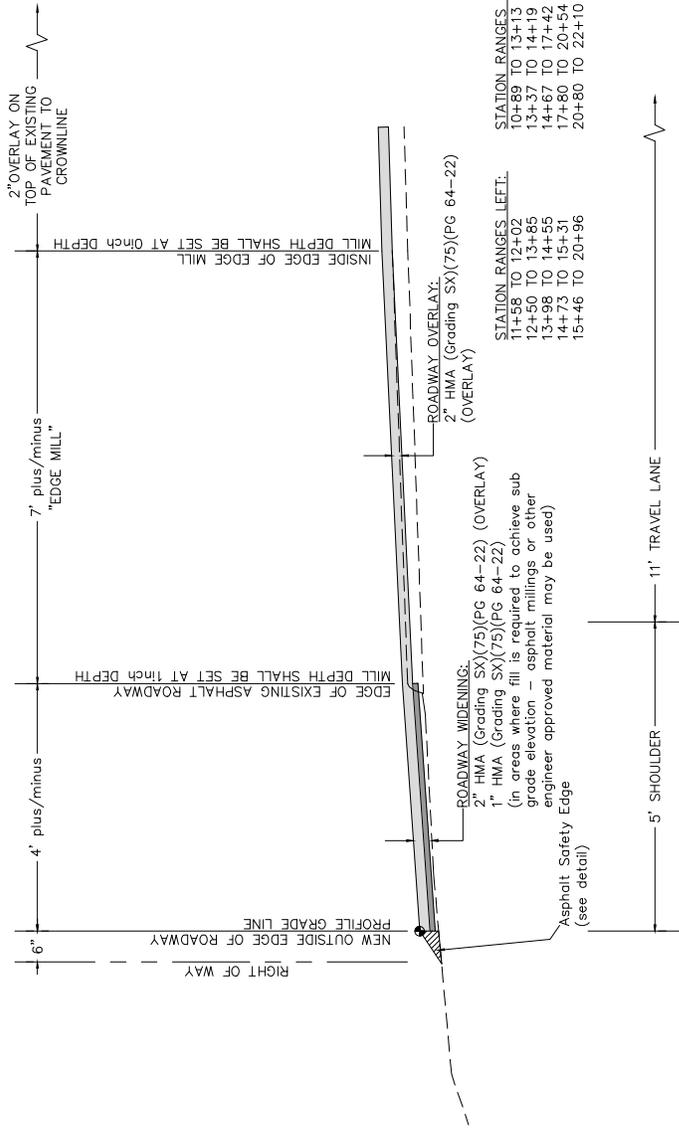
REVISION	DATE	DESCRIPTION	SCALE	PLAN & PROFILE

DRAWN BY	JCS	DATE	2017
DESIGNED BY	JCS	DATE	2017
CHECKED BY	JW	DATE	2017
APPROVED BY	TOP	DATE	2017

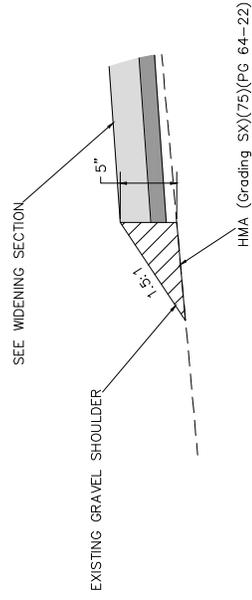


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 ENGINEERING DIVISION

28 1/2 ROAD
 TYPICAL CROSS SECTIONS



28 1/2 ROAD
TYPICAL WIDENING SECTION
(right side same as left)

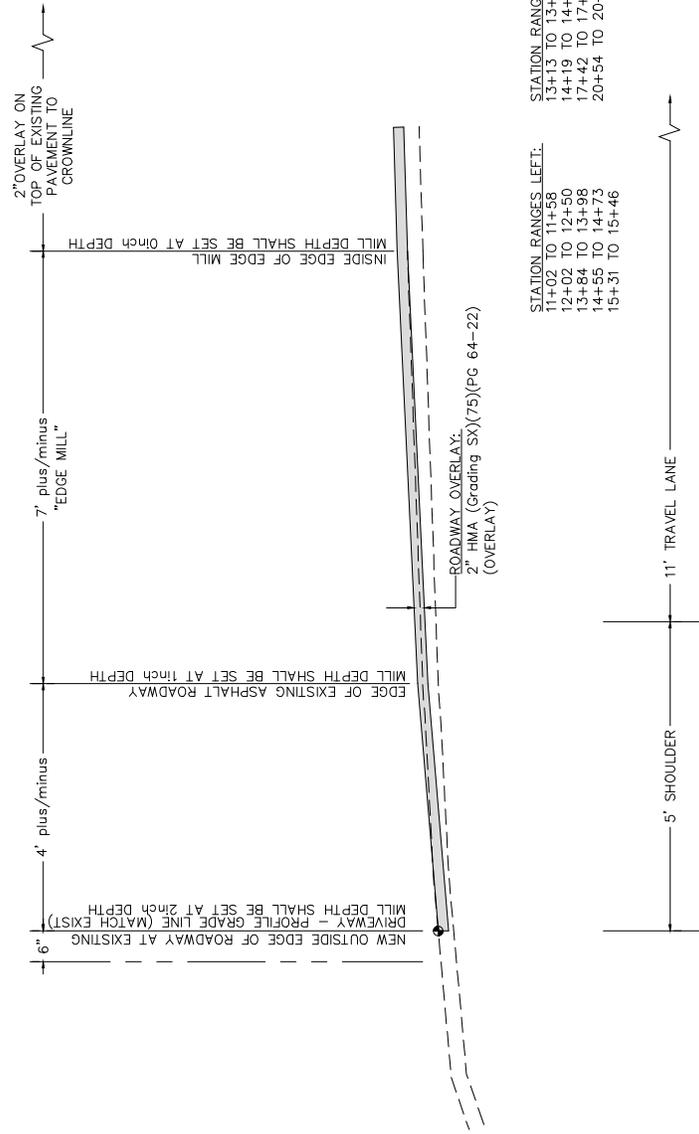


ASPHALT SAFETY EDGE
SHALL ONLY BE USED WITH WIDENING SECTION
(right side same as left)

DESCRIPTION	DATE	DRAWN BY	JCS	DATE	2017	SCALE	PLAN & PROFILE
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REVISION B		CHECKED BY	JWV	DATE	2017	1	MA
REVISION C		APPROVED BY	TOP	DATE	2017	2	MA



PUBLIC WORKS
ENGINEERING DIVISION



STATION RANGES LEFT:
 11+02 TO 11+58
 12+02 TO 12+50
 13+84 TO 13+96
 14+35 TO 14+73
 15+31 TO 15+46

STATION RANGES RIGHT:
 13+13 TO 13+37
 14+19 TO 14+67
 17+42 TO 17+80
 20+54 TO 20+80

28 1/2 ROAD
 TYPICAL SECTION AT EXISTING DRIVEWAY OR INTERSECTION
 (right side same as left)

REVISION	DATE	DESCRIPTION

DRAWN BY	JCS	DATE	2017
DESIGNED BY	JCS	DATE	2017
CHECKED BY	JWV	DATE	2017
APPROVED BY	TOP	DATE	2017

SCALE:	PLAN & PROFILE
0	1" = 10'
0	1" = 10'



PUBLIC WORKS
 ENGINEERING DIVISION

CONSTRUCTION NOTES
 1 202 - MILLING, PER PLAN TO LIMITS, AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

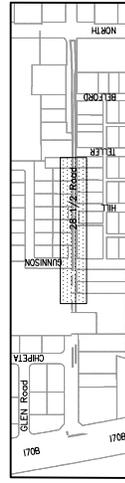
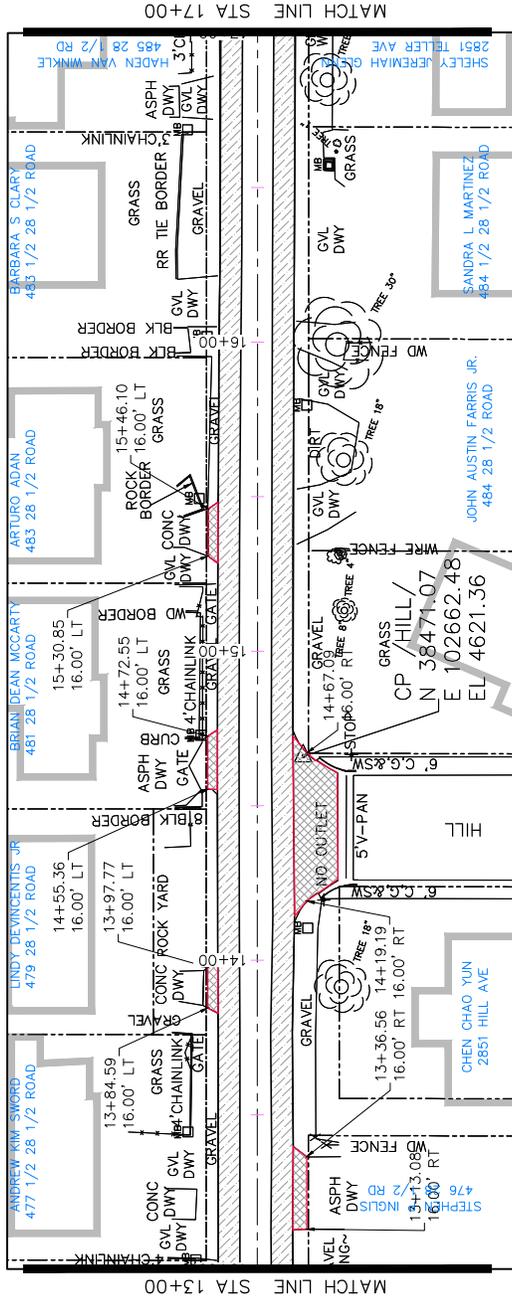
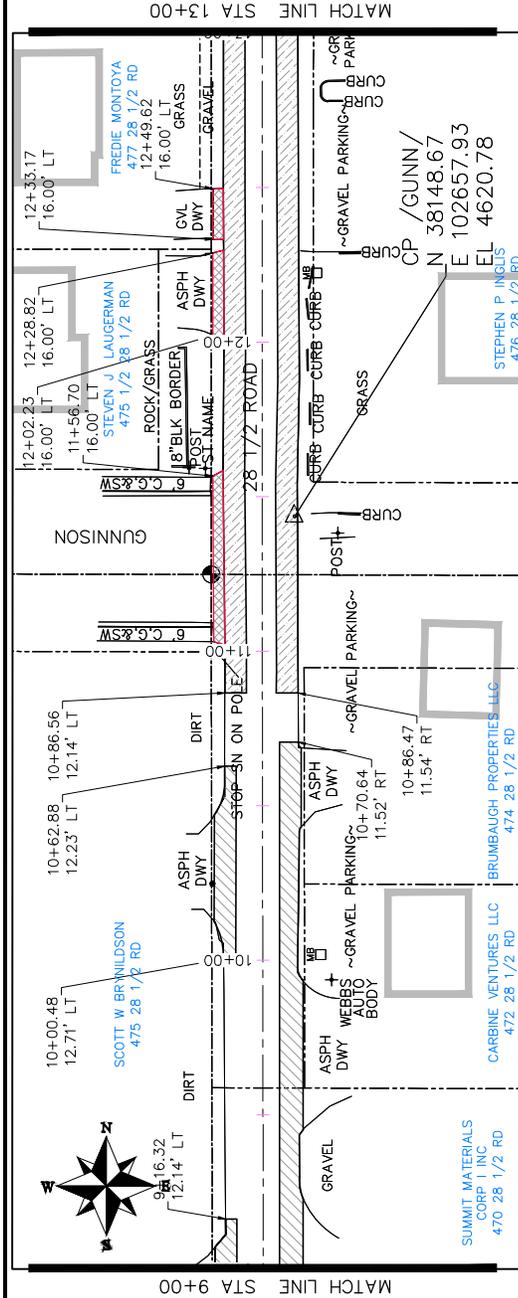
LEGEND



VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 2' TO INSIDE AT 1" (SEE TYPICAL SECTIONS)

VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 1" TO INSIDE AT 0" (SEE TYPICAL SECTIONS)

VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 2' TO INSIDE AT 0" (SEE TYPICAL SECTIONS)



KEYMAP

28 1/2 Road Milling Plan
 from I70B to North Ave

PUBLIC WORKS
 ENGINEERING DIVISION



DATE	DESCRIPTION
2017	DESIGNED BY JCS
2017	CHECKED BY JCS
2017	APPROVED BY JCS

DATE	DESCRIPTION
2017	DESIGNED BY JCS
2017	CHECKED BY JCS
2017	APPROVED BY JCS

DATE	DESCRIPTION
2017	DESIGNED BY JCS
2017	CHECKED BY JCS
2017	APPROVED BY JCS

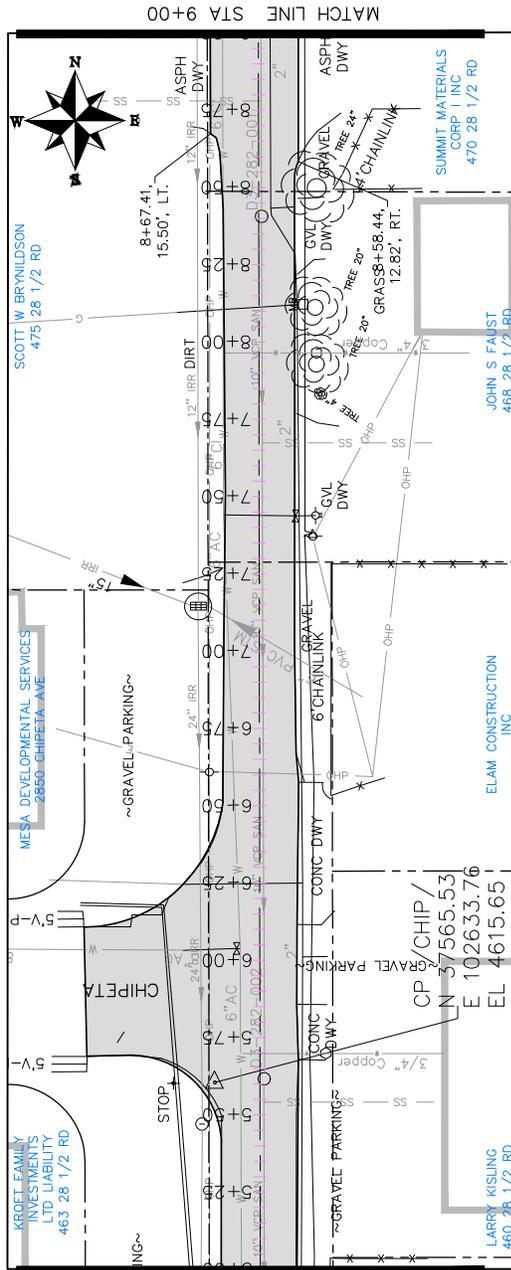
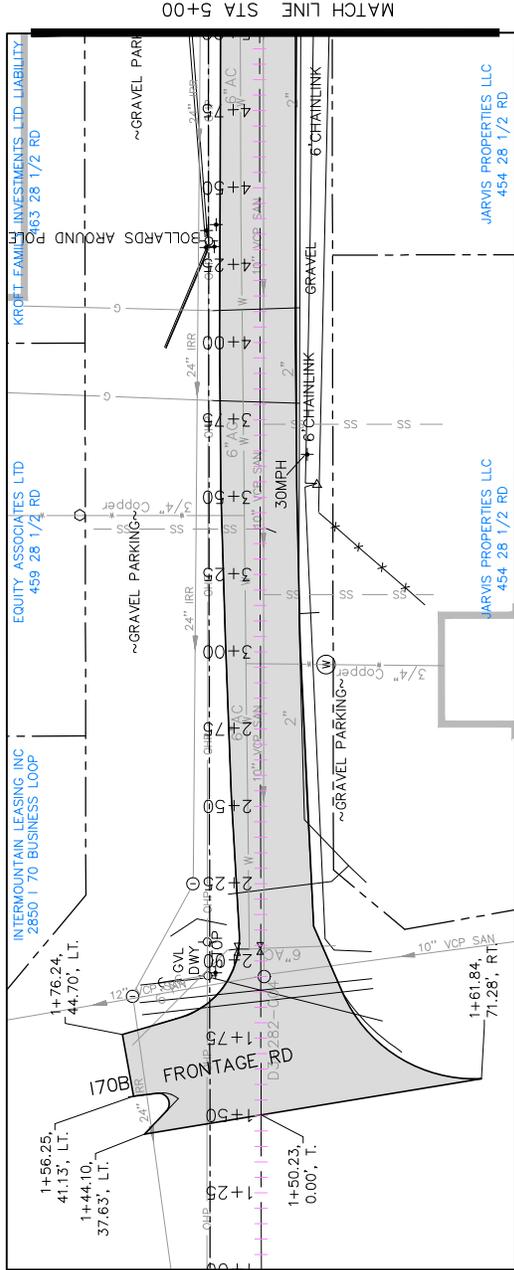
CONSTRUCTION NOTES

- 1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

LEGEND



HOT MIX ASPHALT OVERLAY TO LIMITS SHOWN (SEE TYPICAL SECTIONS)



KEYMAP

SCALES: PLAN & PROFILE 1" = 40' HORIZONTAL 1" = 4' VERTICAL

REVISION	DATE	DESCRIPTION
REVISION A	2017	DATE 2017
REVISION B	2017	DATE 2017
REVISION C	2017	DATE 2017
REVISION D	2017	DATE 2017

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
2017	JCS	JCS	JCS
2017	JCS	JCS	JCS
2017	JCS	JCS	JCS
2017	JCS	JCS	JCS

CONSTRUCTION NOTES

1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

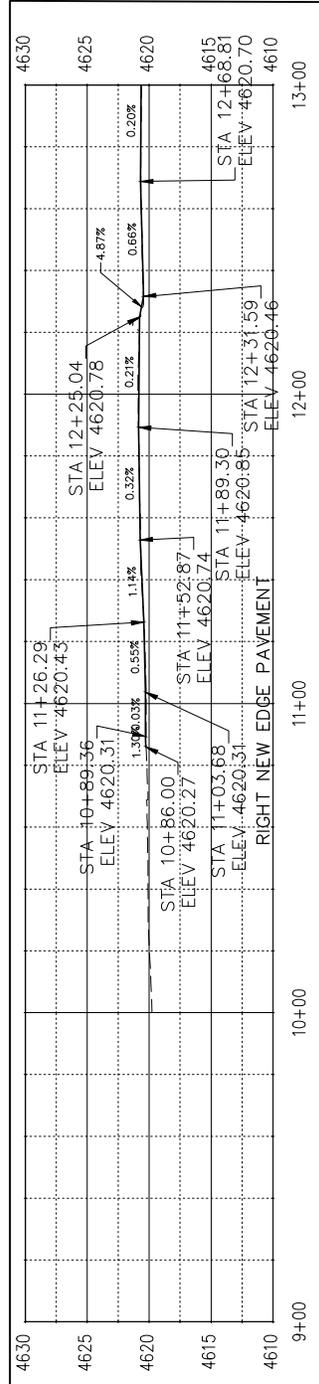
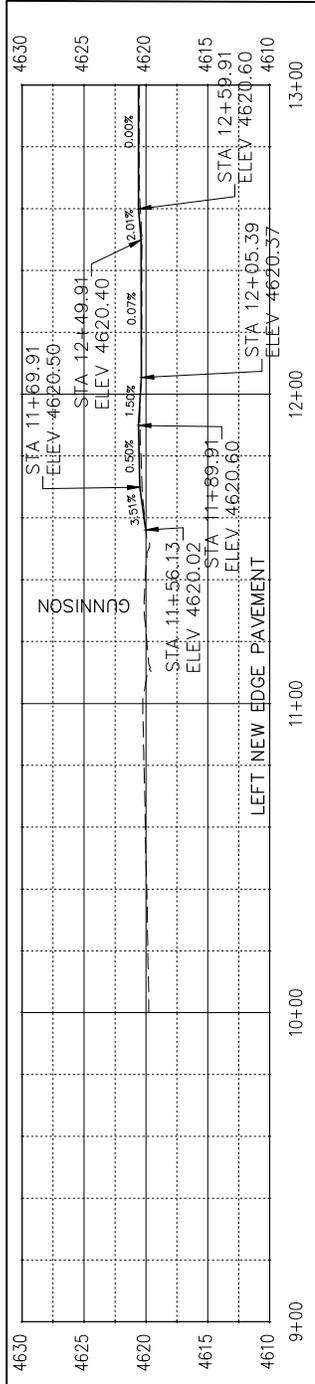
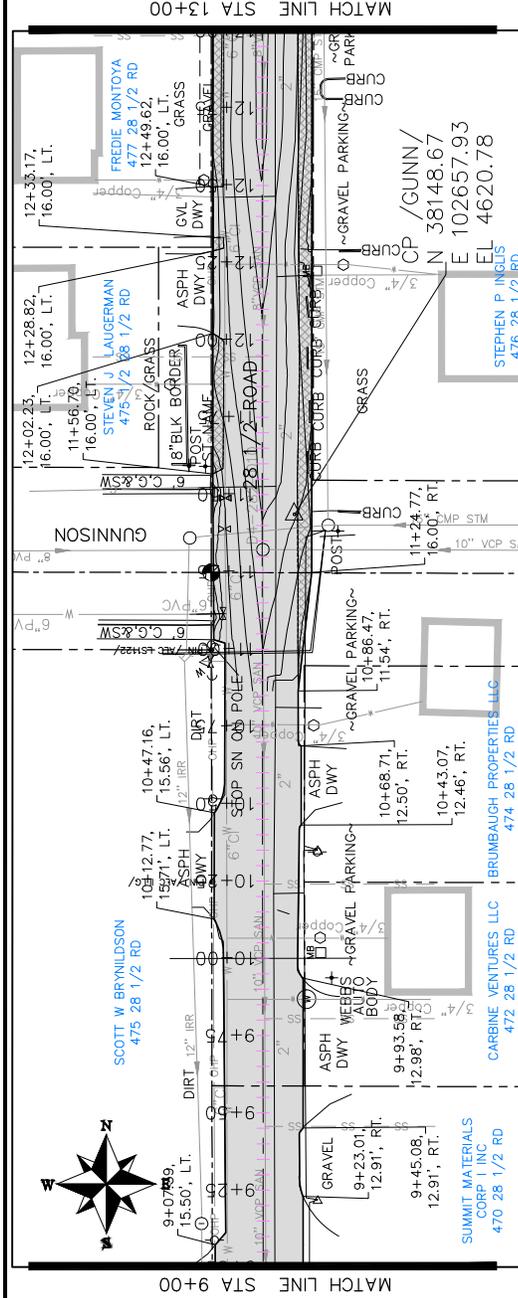
LEGEND



HOT MIX ASPHALT WIDENING
(SEE TYPICAL SECTIONS)



HOT MIX ASPHALT OVERLAY
TO LIMITS SHOWN
(SEE TYPICAL SECTIONS)



KEYMAP

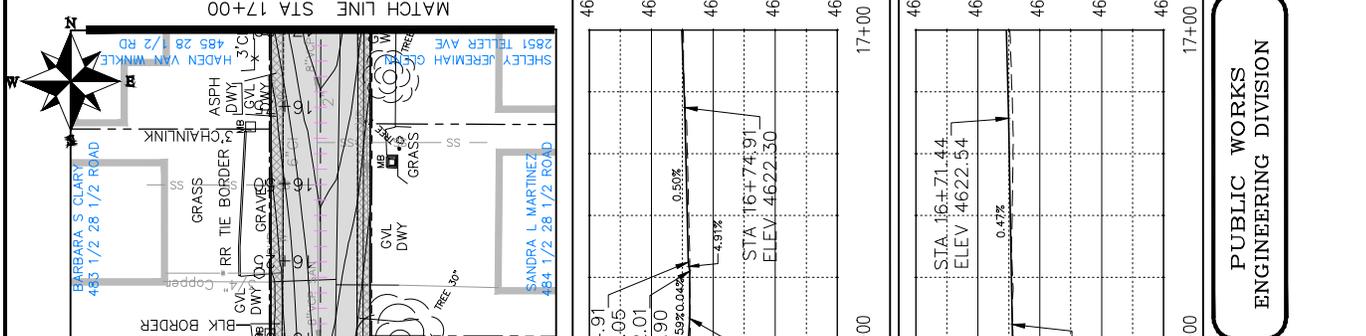
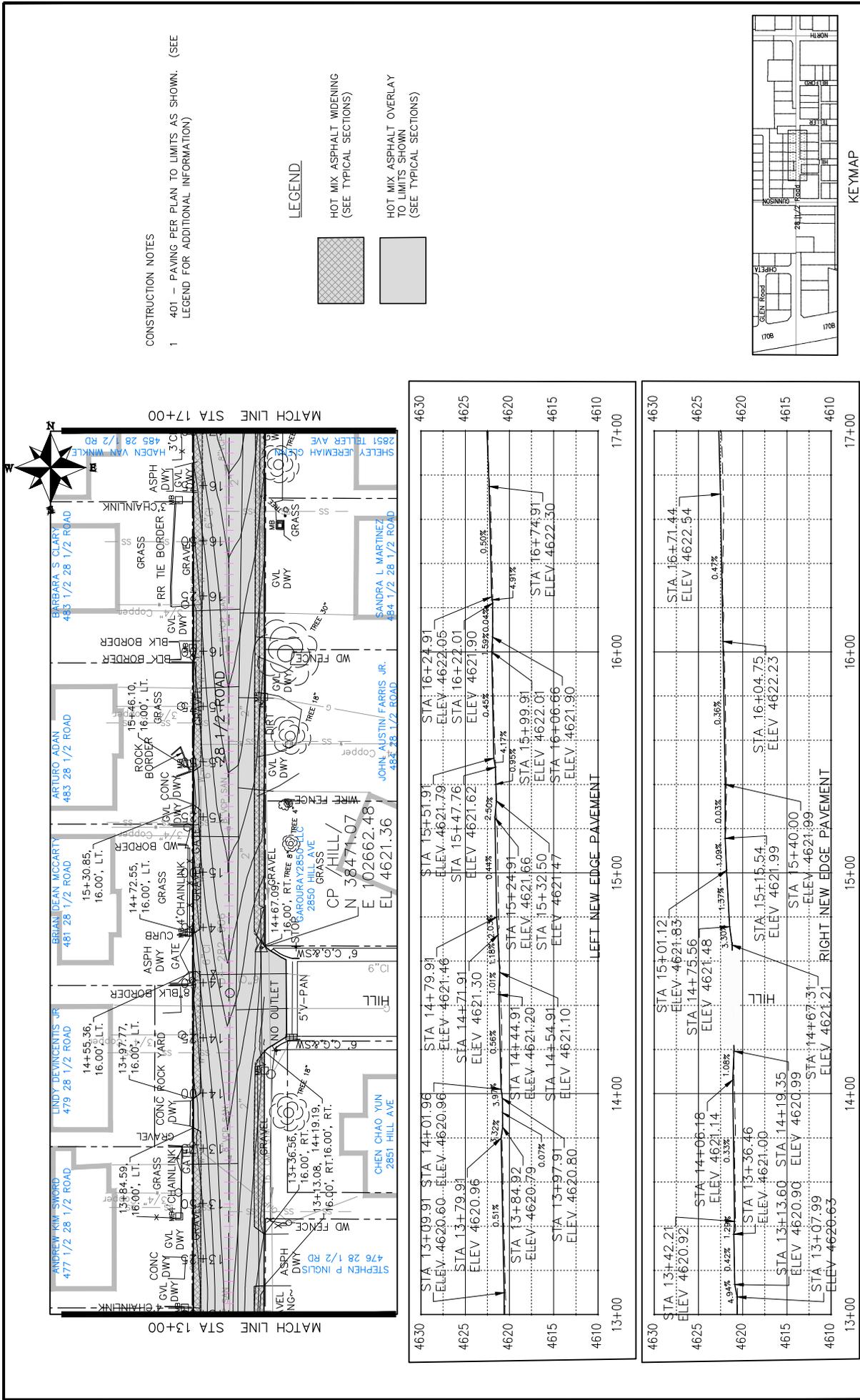
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REVISION A	2017	DATE 2017
REVISION B	2017	DATE 2017
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REVISION D	2017	DATE 2017



SCALE	DATE	APPROVED BY
SCALE	DATE	APPROVED BY

Grand Junction
CITY OF GRAND JUNCTION, COLORADO
PUBLIC WORKS
ENGINEERING DIVISION

28 1/2 Road Paving Plan
from I70B to North Ave



REVISIONS

NO.	DATE	DESCRIPTION
1	2017	ISSUED FOR PERMITS
2	2017	REVISED FOR COMMENTS
3	2017	REVISED FOR COMMENTS
4	2017	REVISED FOR COMMENTS
5	2017	REVISED FOR COMMENTS

SCALE

PLAN & PROFILE: 1" = 40'

VERTICAL CURVE: 1" = 10'

DATE 2017

DRAWN BY JCS

DESIGNED BY JCS

CHECKED BY JUV

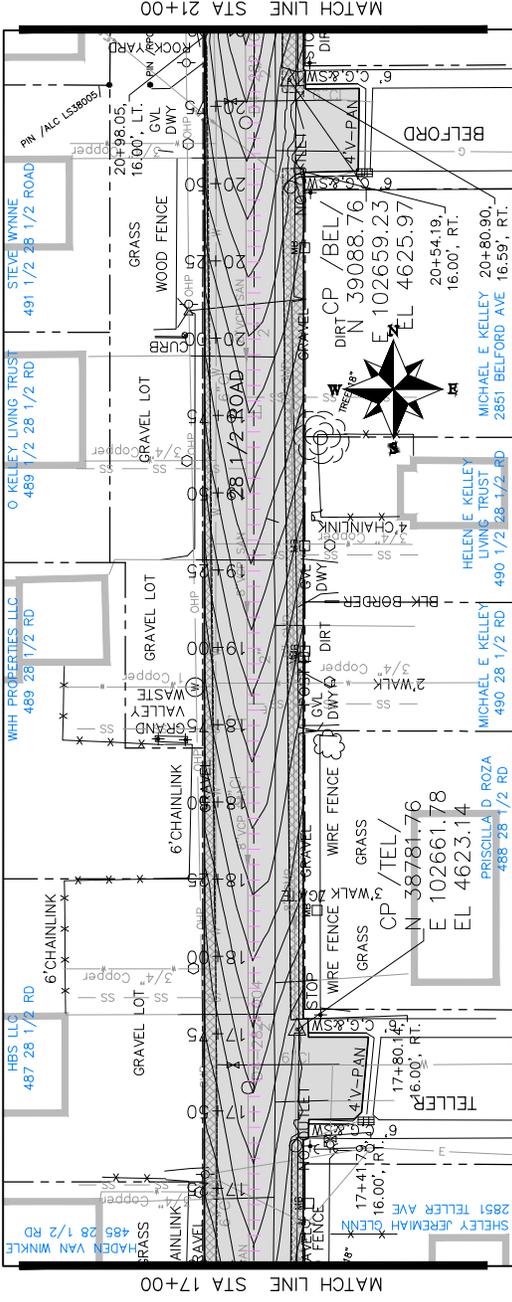
APPROVED BY TSP

CITY OF Grand Junction COLORADO

PUBLIC WORKS ENGINEERING DIVISION

28 1/2 Road Paving Plan from I70B to North Ave

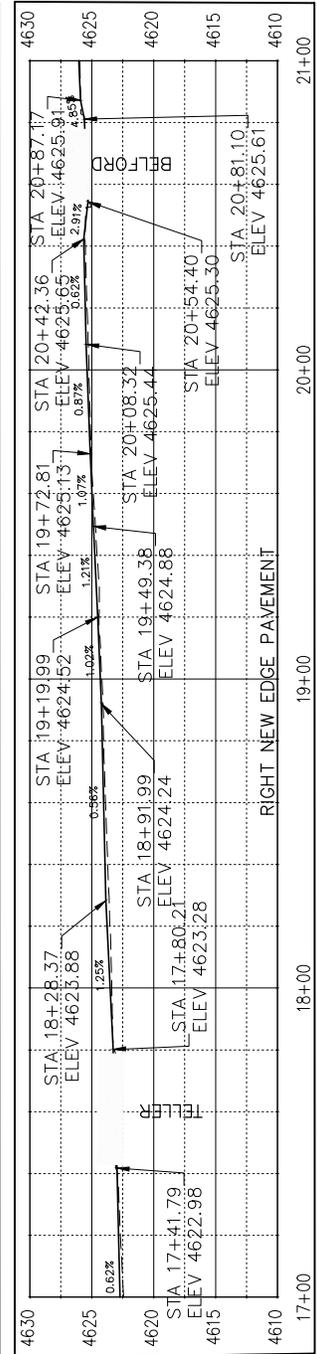
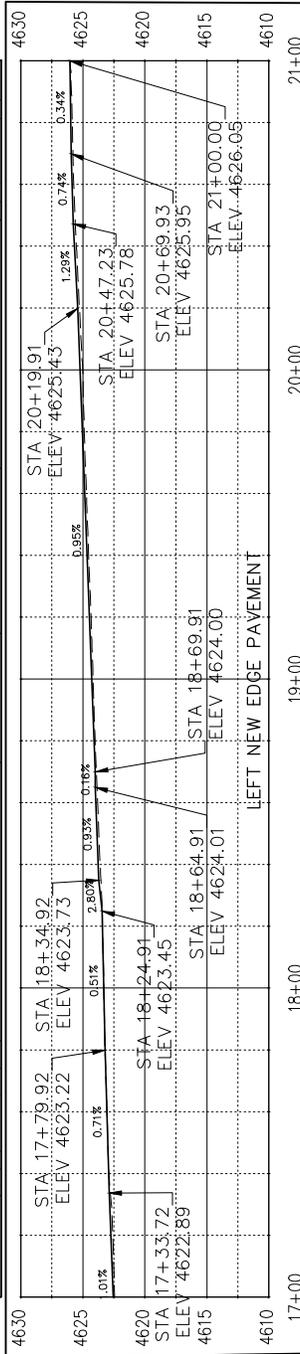
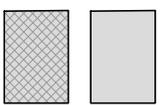
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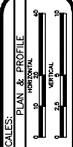
CONSTRUCTION NOTES

- 1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

LEGEND

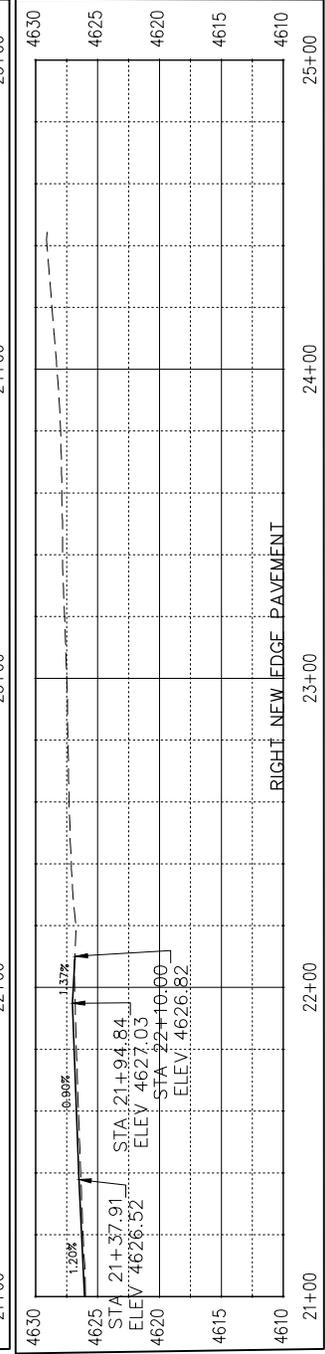
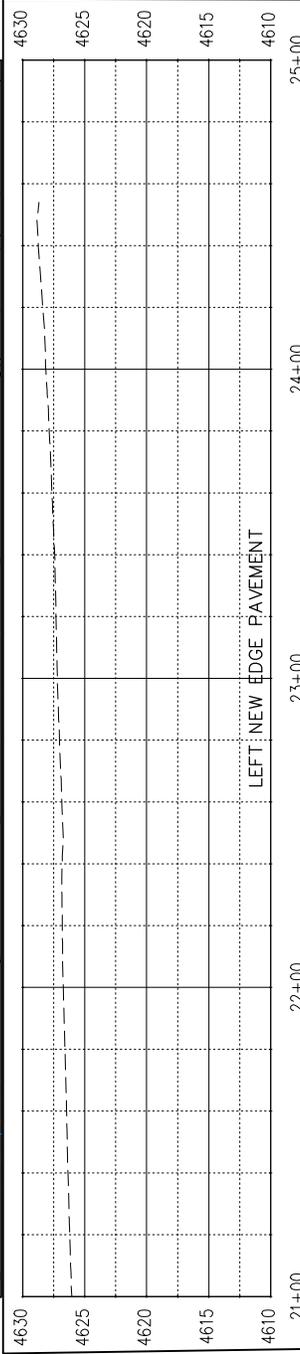
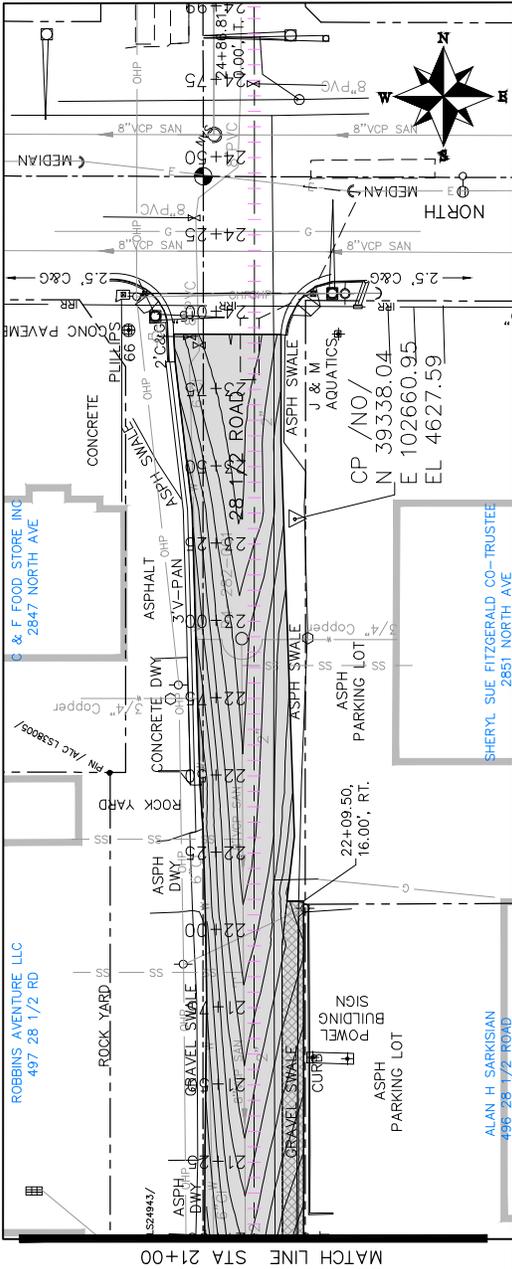


KEYMAP



DATE	DESCRIPTION
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2017	CHECKED BY JCS
2017	APPROVED BY JCS

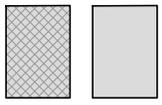
DATE	DESCRIPTION
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CONSTRUCTION NOTES

- 1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

LEGEND

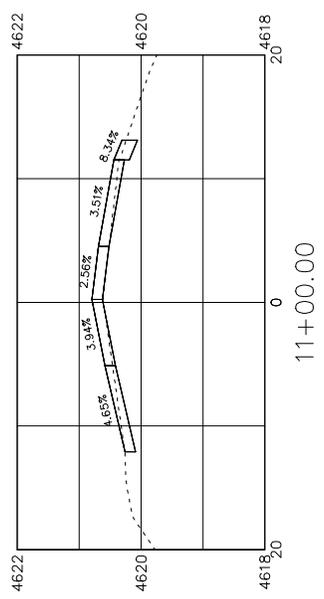
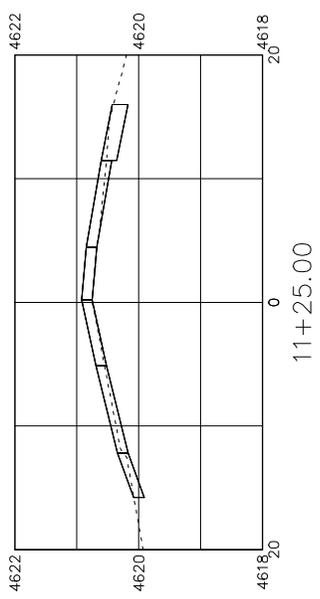
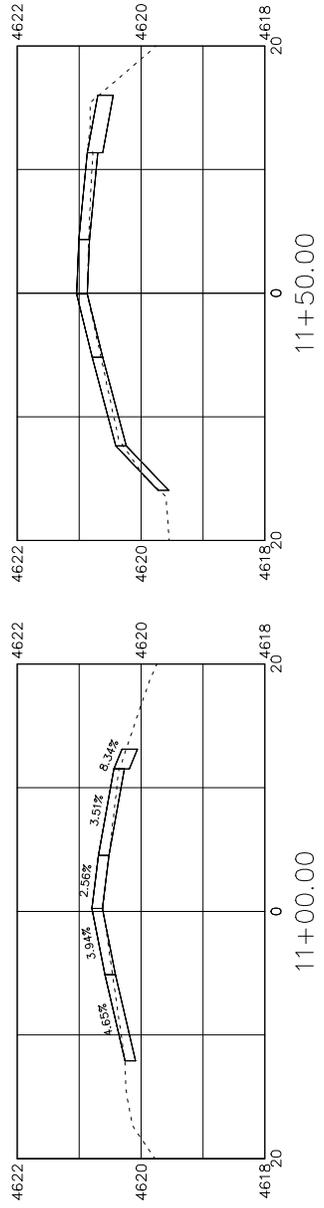
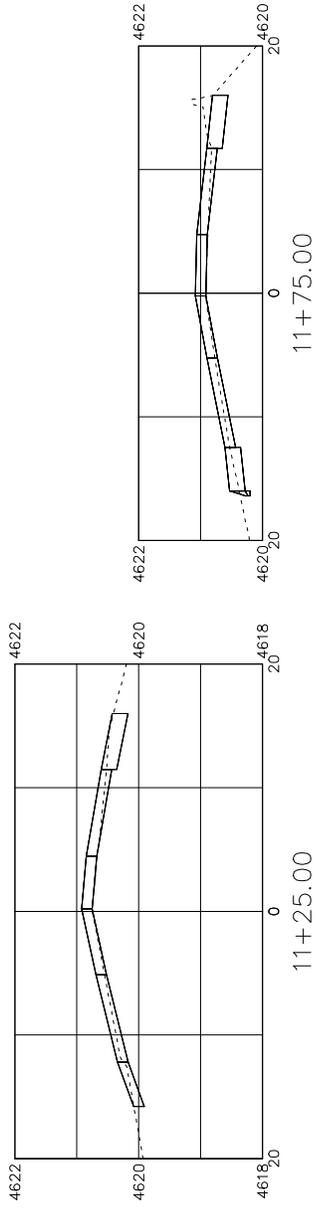


HOT MIX ASPHALT WIDENING
(SEE TYPICAL SECTIONS)

HOT MIX ASPHALT OVERLAY
TO LIMITS SHOWN
(SEE TYPICAL SECTIONS)



KEYMAP



REVISION	DATE	DESCRIPTION

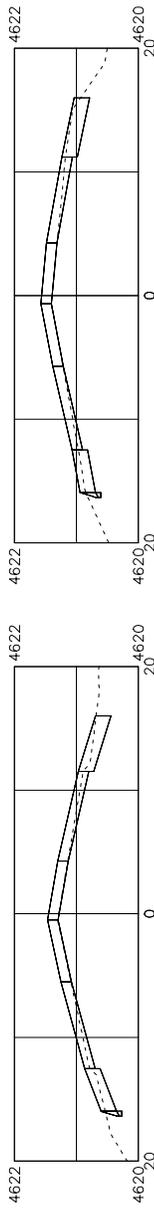
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 DESIGNED BY JCS DATE 2017
 CHECKED BY JUV DATE 2017
 APPROVED BY TOP DATE 2017

SCALES: PLAN 1" = 20'
 SECTION 1" = 4'

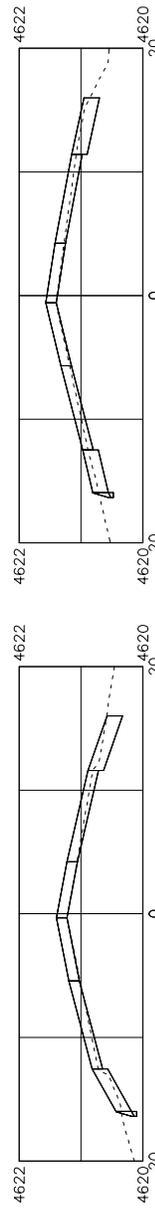


PUBLIC WORKS
 ENGINEERING DIVISION

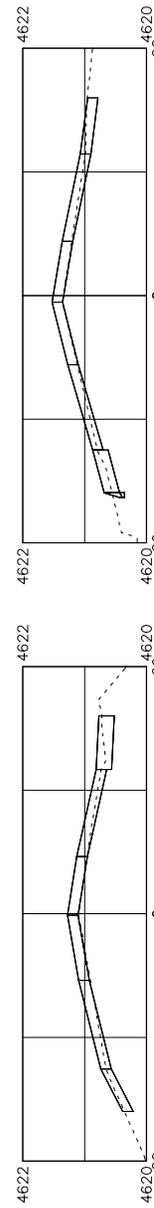
28 1/2 ROAD
 CROSS SECTIONS



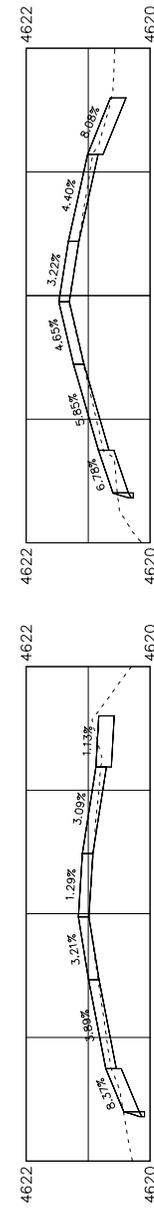
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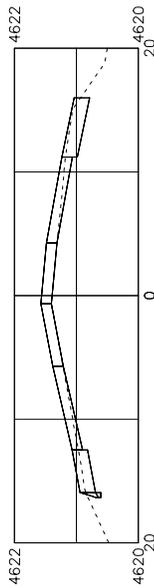
13+50.00



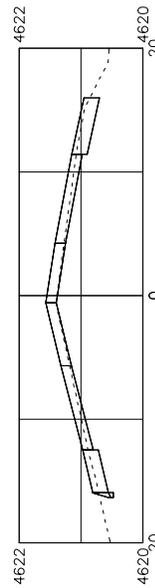
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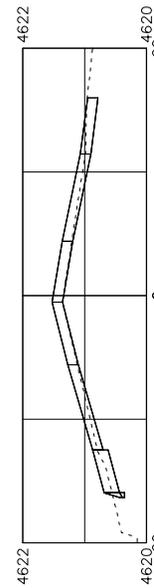
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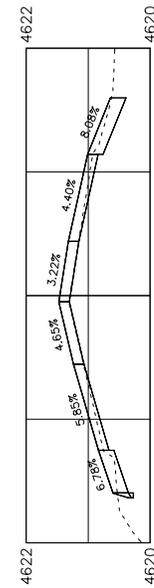
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13+50.00



13+25.00



13+00.00

REVISION	DATE	DESCRIPTION

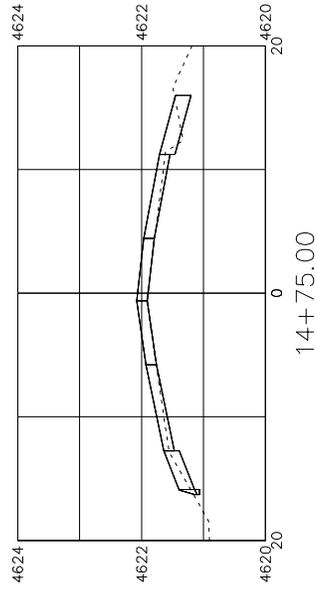
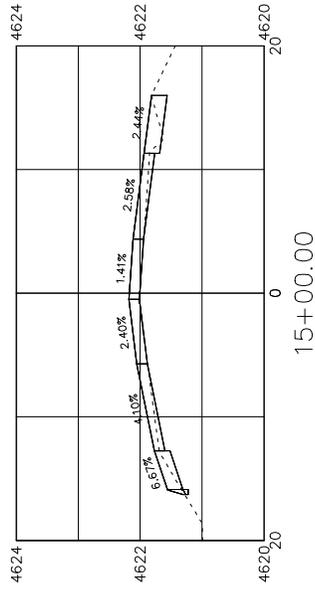
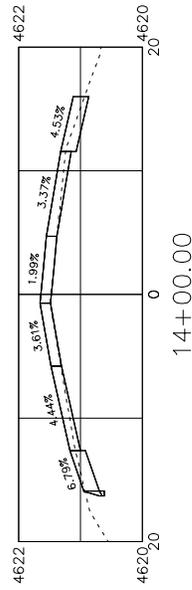
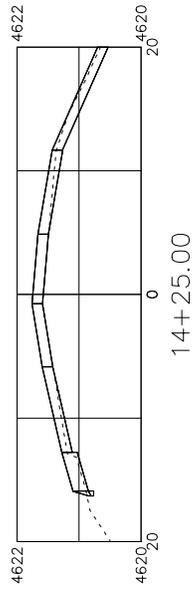
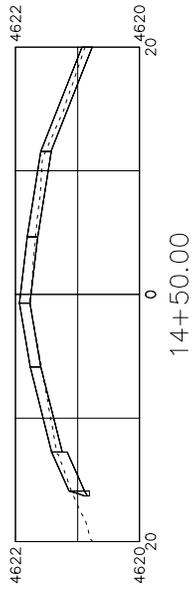
DRAWN BY	JCS	DATE	2017
DESIGNED BY	JCS	DATE	2017
CHECKED BY	JW	DATE	2017
APPROVED BY	TOP	DATE	2017

SCALE:	HORIZONTAL	1" = 40'
SCALE:	VERTICAL	1" = 10'



PUBLIC WORKS
ENGINEERING DIVISION

28 1/2 ROAD
CROSS SECTIONS



REVISION	DATE	DESCRIPTION

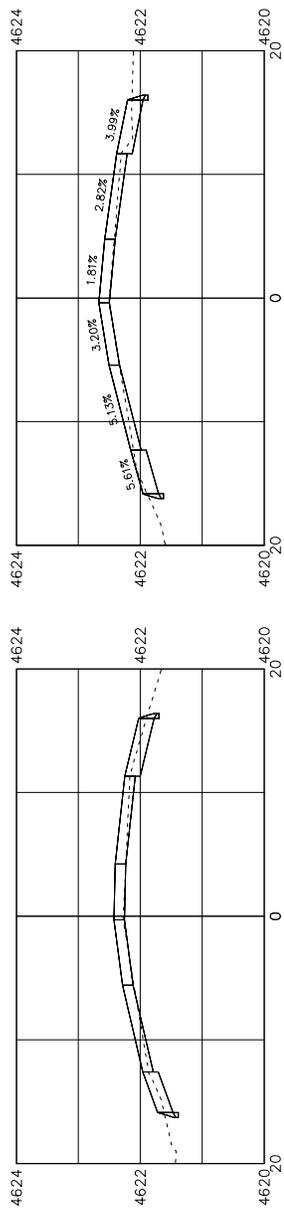
DRAWN BY	JCS	DATE	2017
DESIGNED BY	JCS	DATE	2017
CHECKED BY	JW	DATE	2017
APPROVED BY	TOP	DATE	2017

SCALE:	PLAN & PROFILE
0	10' HORIZONTAL
0	1' VERTICAL

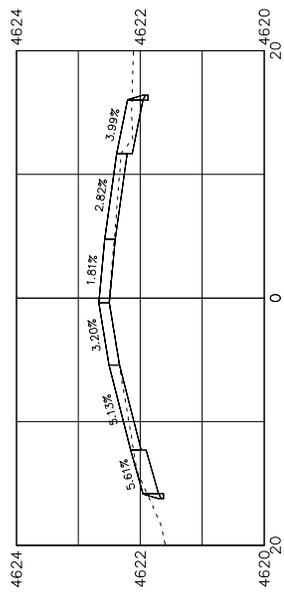


PUBLIC WORKS
ENGINEERING DIVISION

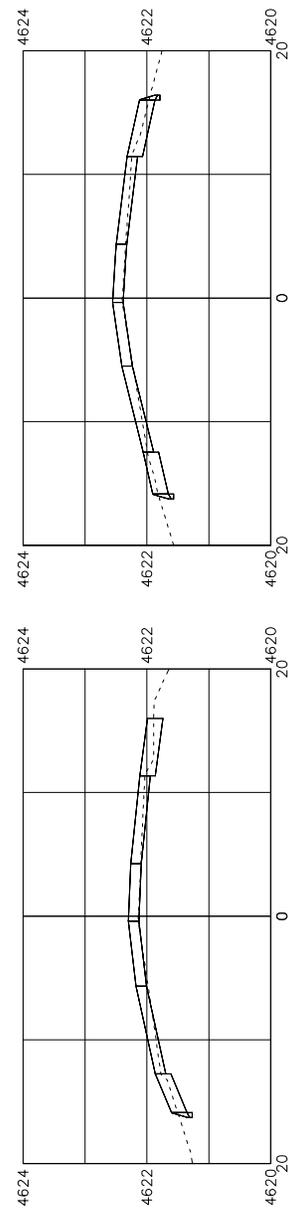
28 1/2 ROAD
CROSS SECTIONS



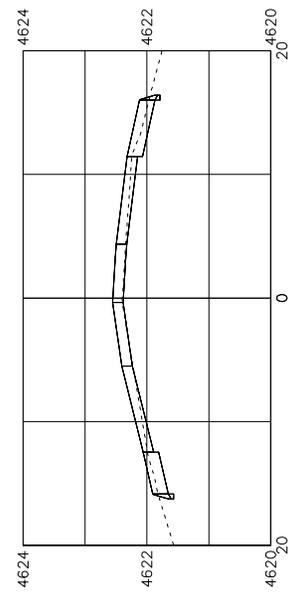
15+50.00



16+00.00



15+25.00



15+75.00

REVISION	DESCRIPTION	DATE

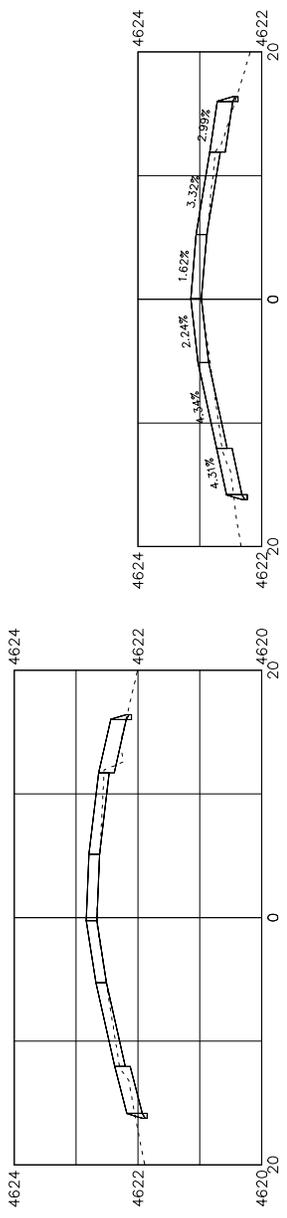
DRAWN BY	JCS	DATE	2017
DESIGNED BY	JCS	DATE	2017
CHECKED BY	JW	DATE	2017
APPROVED BY	TOP	DATE	2017

SCALE:	PLAN & PROFILE
0	1" = 40'
0	1" = 20'

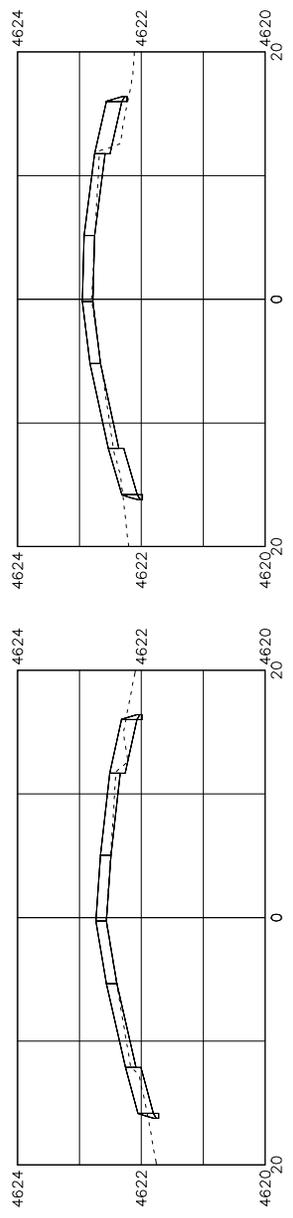


PUBLIC WORKS
ENGINEERING DIVISION

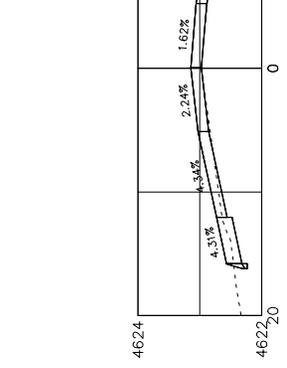
28 1/2 ROAD
CROSS SECTIONS



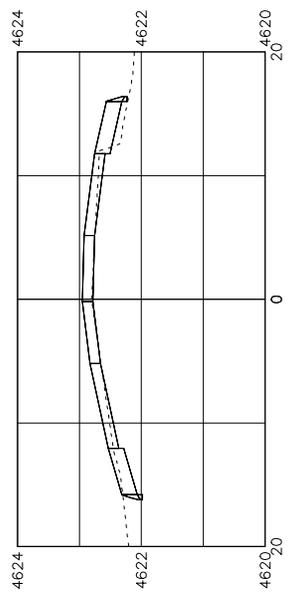
16+50.00



16+75.00



17+00.00



17+75.00

REVISION	DATE	DESCRIPTION

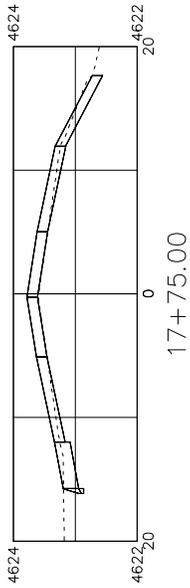
DRAWN BY: JCS DATE: 2017
 DESIGNED BY: JCS DATE: 2017
 CHECKED BY: JUV DATE: 2017
 APPROVED BY: TOP DATE: 2017

SCALE	PLAN	PROFILE
1" = 40'	1" = 40'	1" = 40'

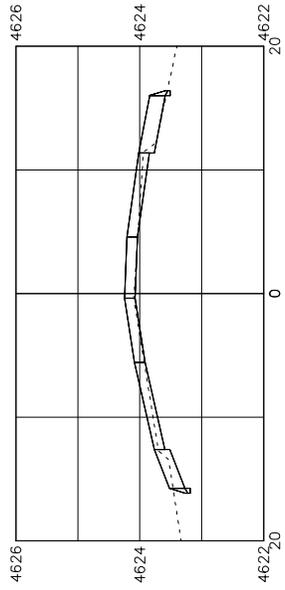


PUBLIC WORKS
 ENGINEERING DIVISION

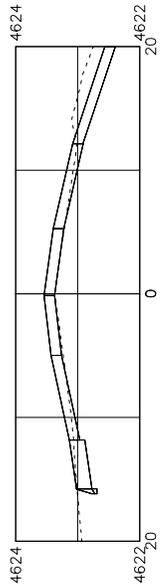
28 1/2 ROAD
 CROSS SECTIONS



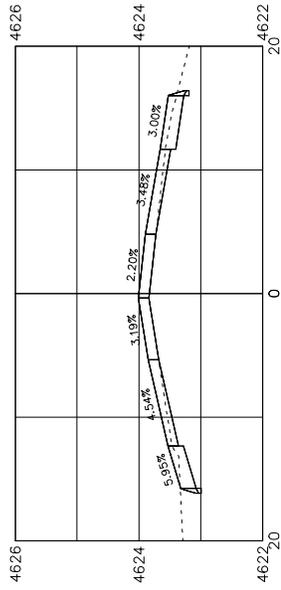
17+75.00



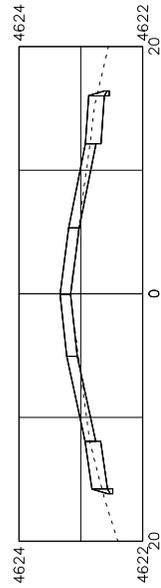
18+25.00



17+50.00



18+00.00



17+25.00

REVISION	DATE	DESCRIPTION

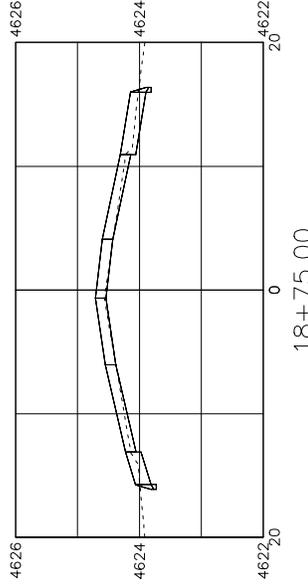
DRAWN BY	JCS	DATE	2017
DESIGNED BY	JCS	DATE	2017
CHECKED BY	JW	DATE	2017
APPROVED BY	TOP	DATE	2017

SCALE:	PLAN & PROFILE
1" =	30'
1" =	10'

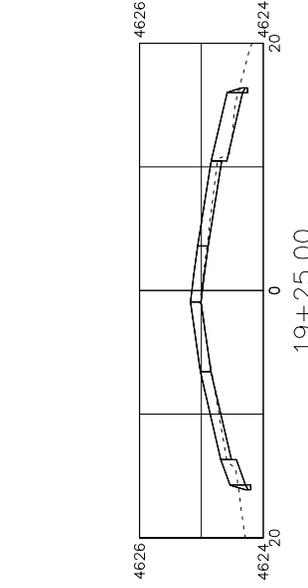


PUBLIC WORKS
ENGINEERING DIVISION

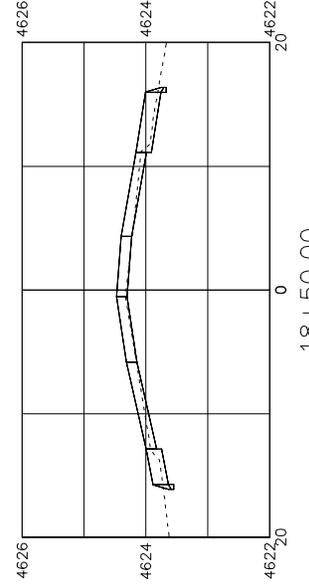
28 1/2 ROAD
CROSS SECTIONS



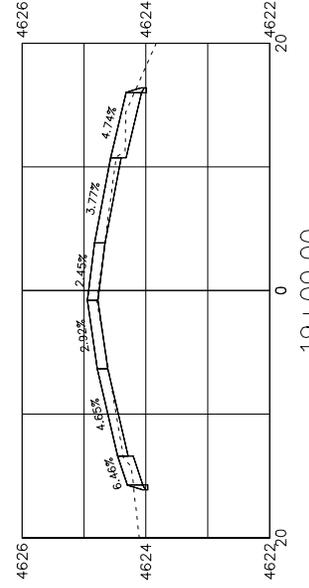
18+75.00



19+25.00



18+50.00



19+00.00

REVISION	DATE	DESCRIPTION

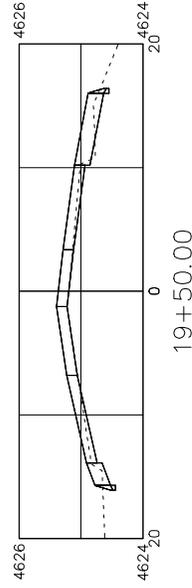
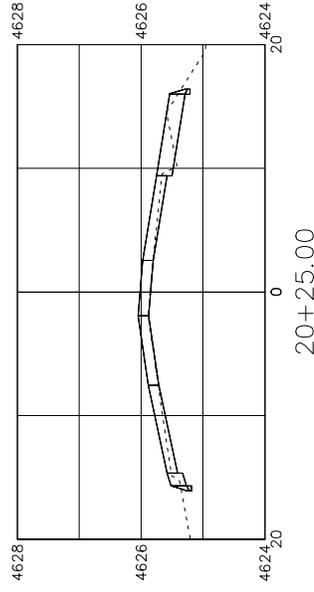
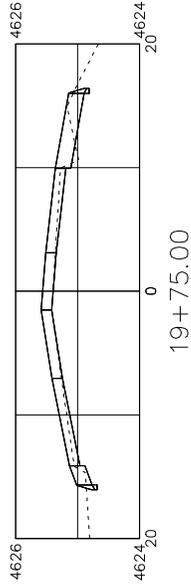
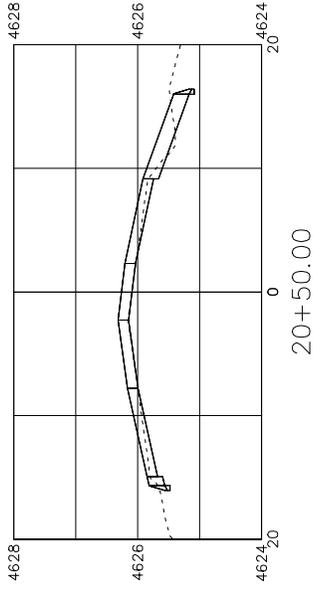
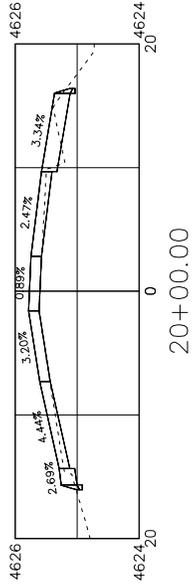
DRAWN BY JCS DATE 2017
 DESIGNED BY JCS DATE 2017
 CHECKED BY JUV DATE 2017
 APPROVED BY TOP DATE 2017

SCALES: PLAN & PROFILE
 1" = 40' HORIZONTAL
 1" = 10' VERTICAL



PUBLIC WORKS
 ENGINEERING DIVISION

28 1/2 ROAD
 CROSS SECTIONS



REVISION	DATE	DESCRIPTION

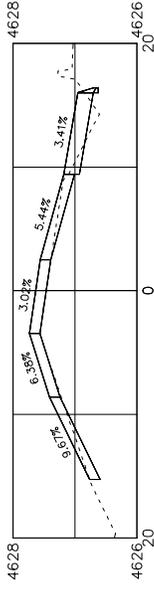
DRAWN BY	JCS	DATE	2017
DESIGNED BY	JCS	DATE	2017
CHECKED BY	JUV	DATE	2017
APPROVED BY	TOP	DATE	2017

SCALE:	PLAN	1" = 40'
SCALE:	PROFILE	1" = 10'

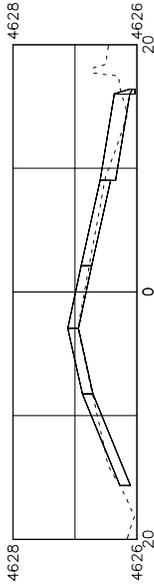


PUBLIC WORKS
ENGINEERING DIVISION

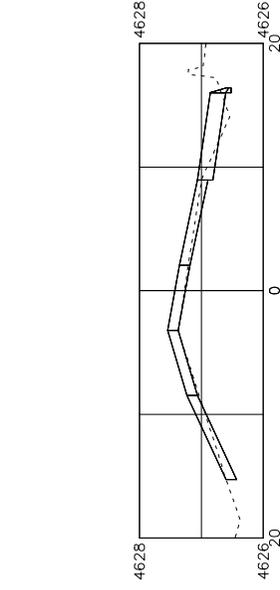
28 1/2 ROAD
CROSS SECTIONS



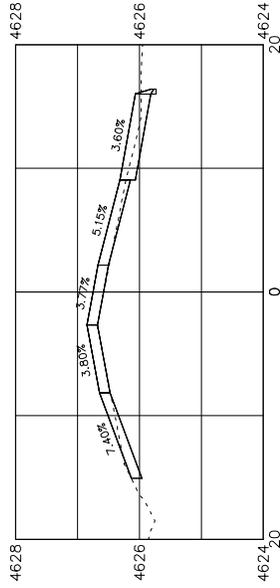
22+00.00



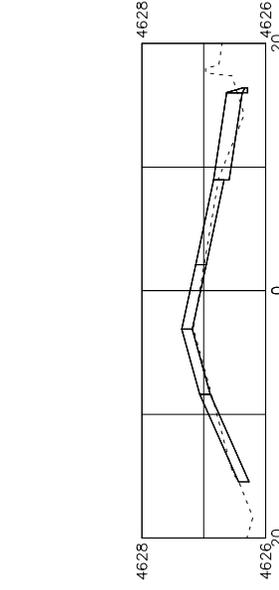
21+25.00



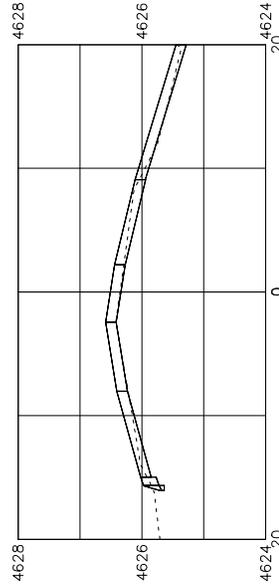
21+75.00



21+00.00



21+50.00

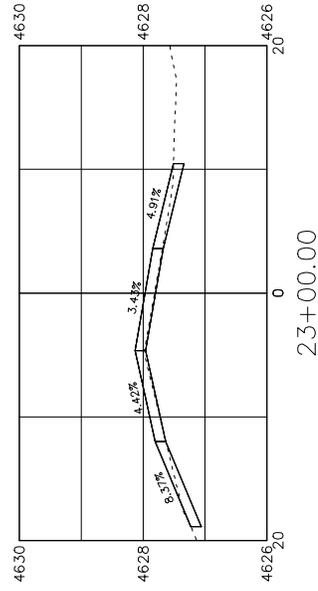
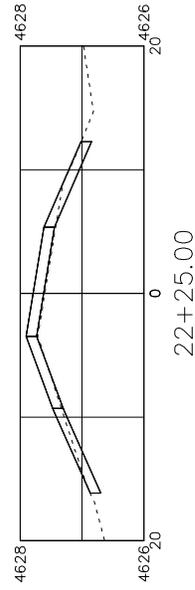
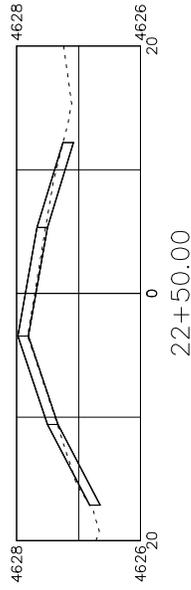
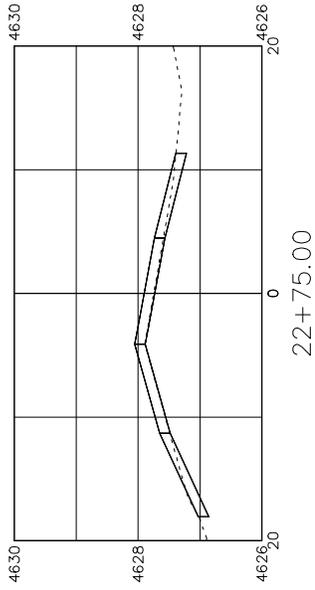


20+75.00

REVISION	DATE	DESCRIPTION

DATE	SCALE	PLAN	SECTION

DRAWN BY	DATE	
JCS	2017	
DESIGNED BY	DATE	
JCS	2017	
CHECKED BY	DATE	
JUV	2017	
APPROVED BY	DATE	
TOP	2017	



REVISION	DATE	DESCRIPTION

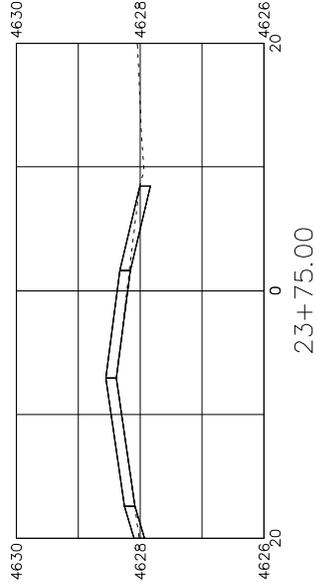
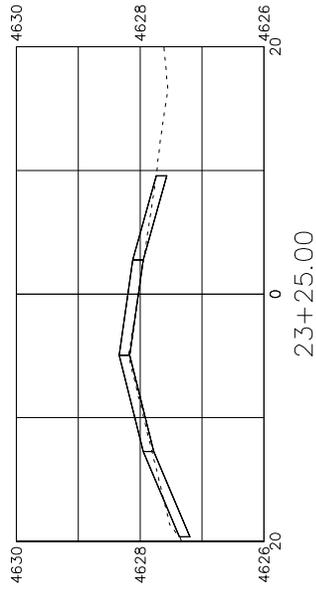
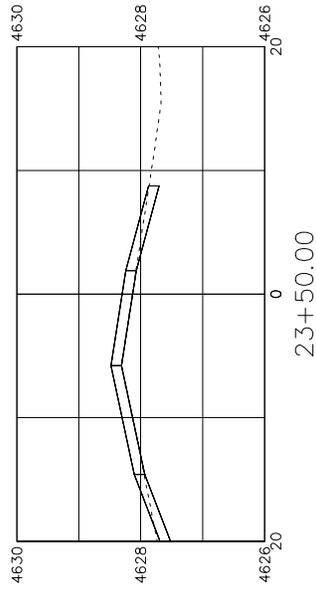
DRAWN BY: JCS DATE: 2017
 DESIGNED BY: JCS DATE: 2017
 CHECKED BY: JUV DATE: 2017
 APPROVED BY: TOP DATE: 2017

SCALE:	PLAN & PROFILE
0	0
10	10
20	20



PUBLIC WORKS
 ENGINEERING DIVISION

28 1/2 ROAD
 CROSS SECTIONS



REVISION	DATE	DESCRIPTION

DRAWN BY: JCS
DESIGNED BY: JCS
CHECKED BY: JUV
APPROVED BY: TOP

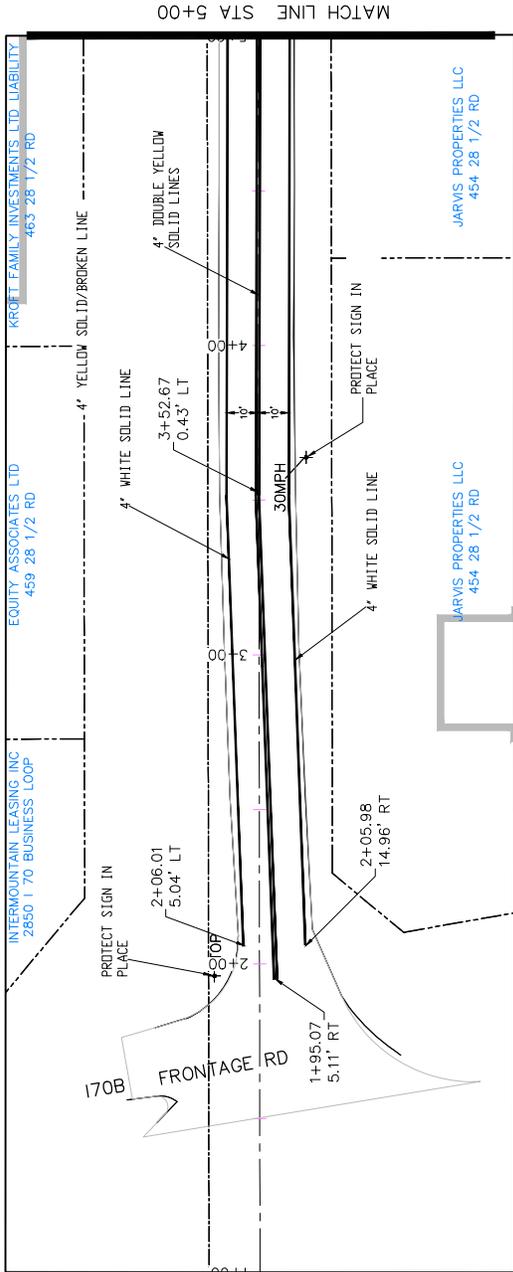
DATE: 2017
DATE: 2017
DATE: 2017
DATE: 2017

SCALE: PLAN 1" = 40'
SECTION 1" = 4'

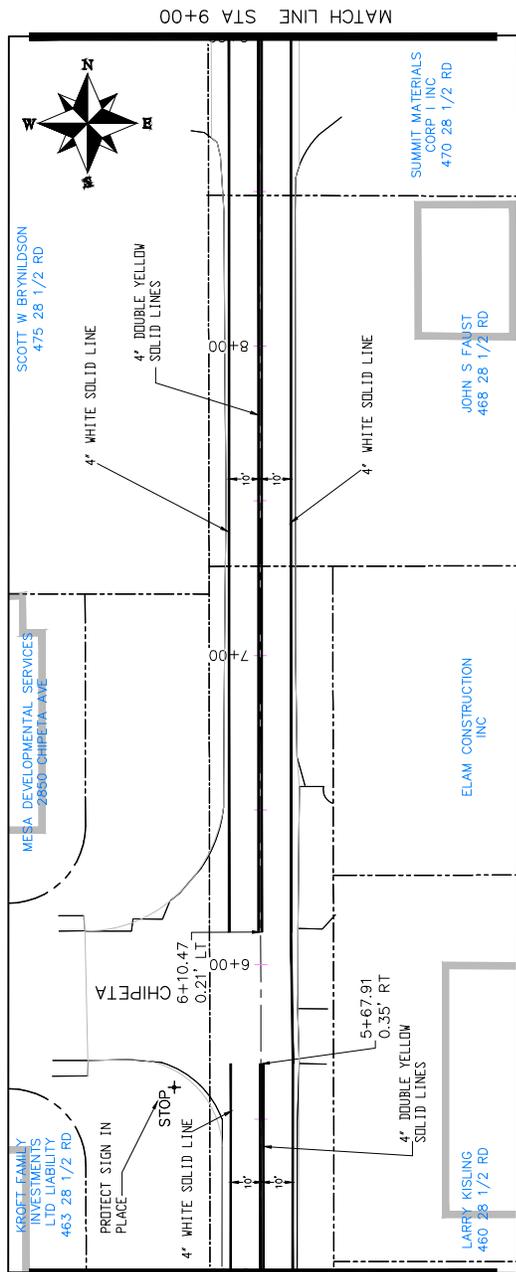


PUBLIC WORKS
ENGINEERING DIVISION

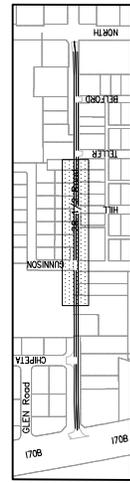
28 1/2 ROAD
CROSS SECTIONS



MATCH LINE STA 5+00



MATCH LINE STA 9+00



KEYMAP

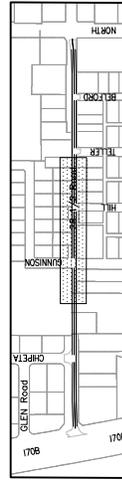
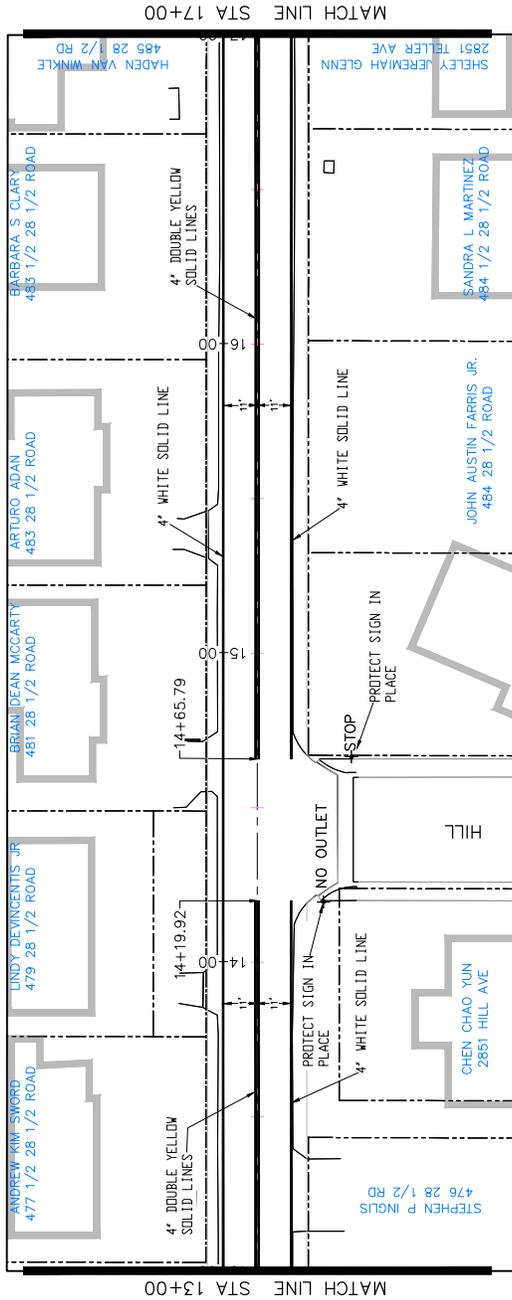
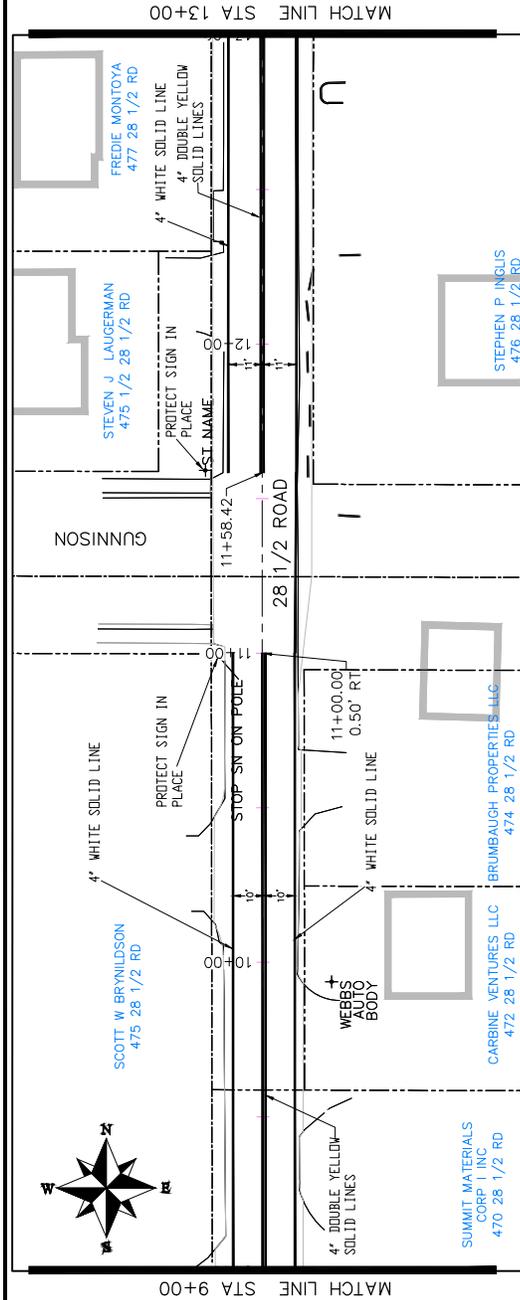
28 1/2 Road Striping
from I70B to North Ave

PUBLIC WORKS
ENGINEERING DIVISION



SCALE	DATE	BY	FOR
PLAN & PROFILE	2017	JCS	DATE 2017
SECTION	2017	JCS	DATE 2017
AS BUILT	2017	JUV	DATE 2017
AS BUILT	2017	TDP	DATE 2017

REVISION	DATE	DESCRIPTION
REVISION A	2017	DATE 2017
REVISION B	2017	DATE 2017
REVISION C	2017	DATE 2017
REVISION D	2017	DATE 2017



KEYMAP

28 1/2 Road Striping
from I70B to North Ave

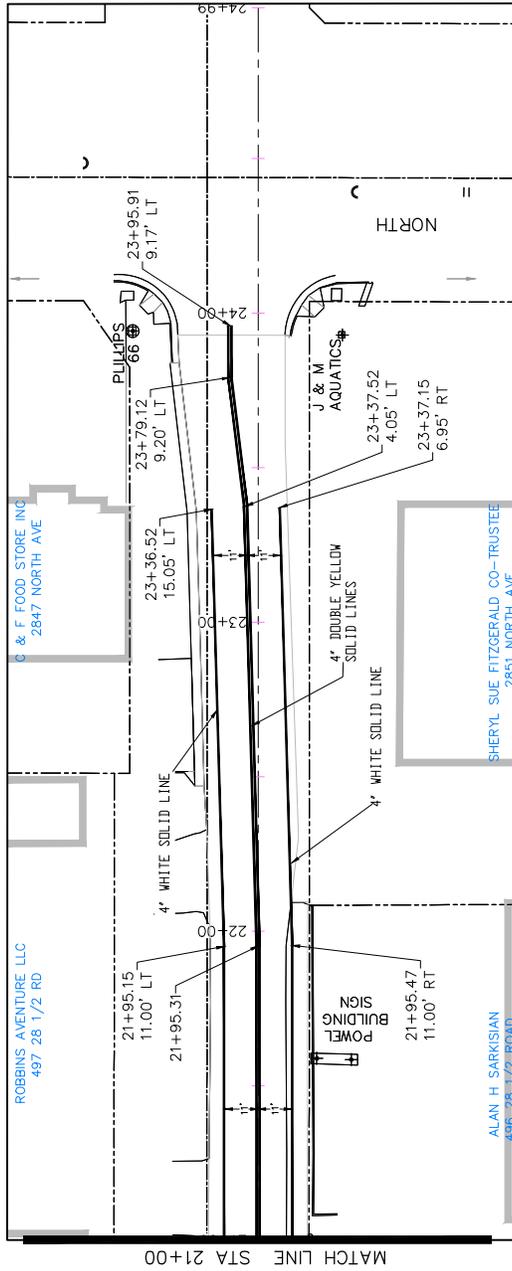
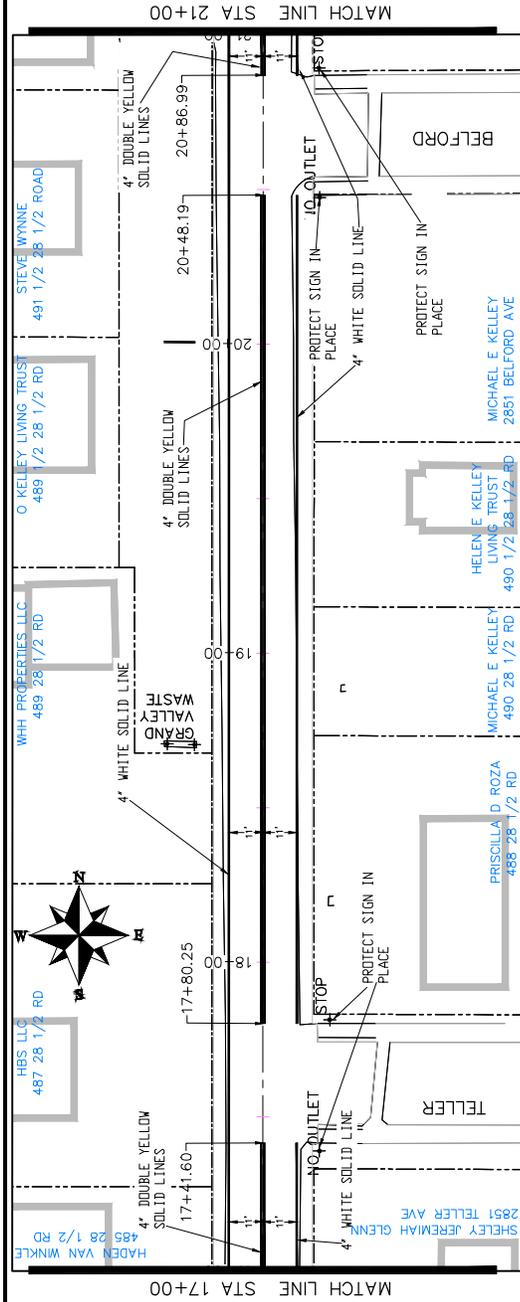
40

PUBLIC WORKS
ENGINEERING DIVISION



DATE	DATE	DATE	DATE
2017	2017	2017	2017
DESIGNED BY JCS	CHECKED BY JCS	APPROVED BY JCS	DATE 2017
DESIGNED BY JCS	CHECKED BY JCS	APPROVED BY JCS	DATE 2017
DESIGNED BY JCS	CHECKED BY JCS	APPROVED BY JCS	DATE 2017
DESIGNED BY JCS	CHECKED BY JCS	APPROVED BY JCS	DATE 2017

REVISION	DATE	DESCRIPTION
REVISION A XXX	2017	
REVISION B XXX	2017	
REVISION C XXX	2017	
REVISION D XXX	2017	



KEYMAP

28 1/2 Road Striping
from I70B to North Ave

PUBLIC WORKS
ENGINEERING DIVISION



SCALE	DATE
PLAN & PROFILE	2017
SECTION	2017

DESCRIPTION	DATE
DRAWN BY JCS	DATE 2017
DESIGNED BY JCS	DATE 2017
CHECKED BY JUV	DATE 2017
APPROVED BY TDP	DATE 2017

REVISION	DATE	DESCRIPTION
REVISION A XXX	2017	
REVISION B XXX	2017	
REVISION C XXX	2017	
REVISION D XXX	2017	

