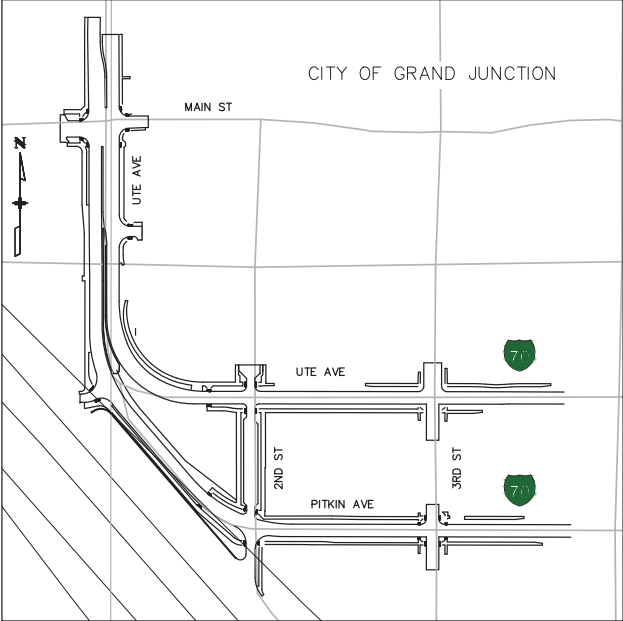




# CITY OF GRAND JUNCTION STATE OF COLORADO

## WATERLINE CONSTRUCTION BID PLANS MESA COUNTY

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PROJECT LOCATION MAP

**DESCRIPTION OF PROJECT**  
 THIS PROJECT IS LOCATED IN THE CITY OF GRAND JUNCTION ON I-70B (PITKIN AVE) AND I-70Z (UTE AVE).

THIS PROJECT INCLUDES REMOVAL AND REPLACEMENT OF WATERLINE MAIN, SERVICE LINES AND HYDRANTS ALONG I-70B (PITKIN AVE), I-70Z (UTE AVE), MAIN ST, COLORADO AVE, 2ND ST, AND 3RD ST.

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	File Name: 1.DWG	Date:	Comments	Init.	Grand Junction City Hall 250 North 5th Street Grand Junction, CO 81501 970-244-1501		No Revisions:		Designer: B. LUSTER Detailer: C. WITTENMEIER Sheet Subset: WATERLINE		NHPP 070A-037		
	Horiz. Scale:      Vert. Scale: As Noted						Revised:				Structure Numbers		23583
	Unit Information						Void:				Subset Sheets: 1 of 38		Sheet Number
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**GENERAL**

- G1. THIS PROJECT IS DESIGNATED AS A NON-SIGNIFICANT FOR TRAFFIC CONTROL PURPOSES.
- G2. THE CONTRACTOR SHALL FIELD VERIFY LENGTHS, DIAMETERS, ELEVATIONS, LOCATIONS AND THICKNESS BEFORE ORDERING MATERIALS.
- G3. NO EXCESS MATERIAL SHALL BE DSDPOSED OF WITHIN THE PROJECT LIMITS BU" SHALL BE HAULED OFF SITE FOR DISPOSAL, WHICH SHALL BE INCLUDED IN THE COST OF THE WORK.
- G4. A CLEAR ZONE CRITERIA OF 14-18 FEET SHALL BE USED FOR I-70B AND I-70Z, AND A CLEAR ZONE OF 7-16 FEET SHALL BE USED FOR LOCAL ROADS DURING THIS PROJECT. NO PARKING OR EQUIPMENT STORAGE SHALL BE ALLOWED WITHIN THE CLEAR ZONE OR WITHIN THE MEDIAN. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN THE CLEAR ZONE. THE CONTRACTOR MAY USE BARRIER WITH BUFFER AREA WITHIN THE CLEAR ZONE AS APPROVED BY THE ENGINEER.
- G5. EXISTING CURB AND GUTTER, CROSS PANS, SIDEWALKS, DRIVEWAYS, SIGNS, AND/OR ANY OTHER STRUCTURE OR MARKER NOT IDENTIFIED IN THE CONTRACT TO BE REMOVED OR MODIFIED, WHICH ARE DAMAGED BY THE WORK, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY DAMAGE TO ITEMS DESIGNATED TO BE PROTECTED IN PLACE SHALL BE REPAIRED OR REPLACED TO PRECONSTRUCTION CONDITIONS OR BETTER AT NO ADDITIONAL COST TO THE PROJECT.
- G8. UNLESS OTHERWISE NOTED, MATERIALS SHALL BE CONTRACTOR'S SOURCE.
- G9. ALL POTHOLING METHODS AND LOCATIONS SHALL BE PREAPPROVED BY THE ENGINEER. ANY POTHOLING THAT HAS NOT BEEN PREAPPROVED BY THE ENGINEER SHALL BE AT THE CONTRACTORS EXPENSE.
- G10. FIELD OFFICE (CLASS 2), FIELD LABORATORY (CLASS 2) AND SANITARY FACILITY SHALL BE LOCATED AS APPROVED BY ENGINEER.
- G15. A PRE-CONSTRUCTION MEETING WILL BE HELD TO DISCUSS CONSTRUCTION PHASING AND SEQUENCING, CONSTRUCTION SCHEDULE, AND NECESSARY COORDINATION AND EXPECTATIONS PRIOR TO THE START OF CONSTRUCTION.

**EARTHWORK**

- E1. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
- E2. WATER SOURCE REQUIRED FOR MOISTURE/DENSITY CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE FREE OF EXCESSIVE SEDIMENTS AND OTHER CONTAMINANTS THAT MAY BE DETRIMENTAL TO EMBANKMENTS, SUB-BASES, AND BASE COURSE MATERIAL.
- E6. ALL TRENCHES SHALL BE BACKFILLED BEFORE THE WORK SHIFT ENDS. ANY TRENCHES THAT CANNOT BE BACKFILLED BEFORE THE WORK SHIFT ENDS MUST BE COVERED WITH A STEEL PLATE. THIS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- E7. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. APPLICATION SHALL BE AS DIRECTED BY THE ENGINEER. WATER AS A DUST PALLIATIVE AND ANY OTHER WETTING SHALL BE INCLUDED IN THE WORK AND WILL NOT BE PAID SEPARATELY.
- E8. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY ADDITIONAL BORING LOGS AND/OR SOIL INFORMATION.
- E10. THE CONTRACTOR SHALL EXPECT BOULDERS AND COBBLES IN EXCAVATIONS AND DEEP FOUNDATIONS.

**DRAINAGE**

- D3. THE CONTRACTOR SHALL PROVIDE TEMPORARY LOCAL DRAINAGE DURING EACH PHASE OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO DRAINAGE STRUCTURES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER ON DRAINAGE FLOWS AND DIRECTIONS.

**ENVIRONMENTAL**

- EN1. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR THE TONES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTIONS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES SHALL INCLUDE PARKING OF VEHICLES AND EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
- EN2. THE STORMWATER MANAGEMENT PLAN IDENTIFIES EXISTING TREES TO BE PROTECTED. TREES CONSIDERED FOR REMOVAL SHALL BE COORDINATED WITH THE ENGINEER IN THE EVENT THE EXISTING TREES MAY BE SAVED. EXISTING UTILITIES SHALL BE EVALUATED BEFORE ANY TREE REMOVAL. TREE PROTECTION SHALL BE INCLUDED IN THE WORK AND NOT BE PAID FOR SEPARATELY.
- EN3. DURING ALL SUBSURFACE ACTIVITIES, WORKERS SHALL BE ALERT FOR VISUAL AND OLFACTORY SIGNS OF CONTAMINATION. IF CONTAMINATION IS ENCOUNTERED, WORK SHALL STOP AND PROCEDURES ESTABLISHED IN THE CDOT 260 SPEC SHALL BE FOLLOWED. ANY CONTAMINATED SOILS OR LANDFILL MATERIAL SHALL BE PROPERLY HANDLED AND SAMPLED PRIOR TO DISPOSAL.
- EN4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEWATERING, IF NEEDED, AND OBTAINING THE APPLICABLE DEWATERING PERMIT FOR CONSTRUCTION AT THE SITE PER SPECIFICATIONS. THE PERMIT IS OBTAINED FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIORNMENT. THE PERMIT AND ANY DEWATERING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

**RIGHT OF WAY**

- R2. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION DESIGNATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION, SHALL BE RESET AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH SECTION 629. SURVEY MONUMENTATION. THE CONTRACTOR AND ENGINEER SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION. SEE TABULATION OF SURVEY.

**UTILITIES**

- U1. SEE PROJECT SPECIAL SPECIFICATIONS FOR UTILITY CONTACT INFORMATION.
- U2. EXISTING UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION AND ARE BASED ON A SUBSURFACE UTILITY ENGINEERING INVESTIGATION (SUE). THE SUE PLANS WILL BE A SUPPLEMENTAL DOCUMENT AVAILABLE WITH THE CONSTRUCTION DOCUMENTS. ALL UTILITY LINES ARE ASCE 38 STANDARD QUALITY LEVEL B EXCEPT AS NOTED ON THE SUE PLANS.
- U3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS AND THE UTILITY PROJECT SPECIAL PROVISIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH UTILITY OWNERS IN THEIR REMOVAL, ADJUSTMENT AND/OR RELOCATION OPERATIONS SO THAT THE UTILITY WORK CAN BE ACCOMPLISHED WITHOUT IMPACTING THE CONSTRUCTION SCHEDULE.
- U4. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, PLUS THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 1-800-922-1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. CDOT LOCATES ARE REQUESTED THROUGH THE UNCC. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING. CONTRACTOR TO REFERENCE POINTMAN FOR UNDERGROUND UTILITY DATA PRIOR TO EXCAVATION.
- U5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AT PIPES, CULVERTS, CONCRETE BOX CULVERTS, SIGNAL POLES, WALLS, AND OTHER AREAS OF EXCAVATION AS NECESSARY TO ENSURE THE UTILITIES WILL NOT BE IMPACTED.
- U6. LOCATION AND NOTIFICATION OF BOTH UNCC MEMBER AND NON-MEMBER UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY.
- U7. THERE ARE UTILITY CONFLICTS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL REQUEST UTILITY LOCATES PRIOR TO COMMENCING ANY TYPE OF EXCAVATION, OR OTHER IMPROVEMENTS. BASED UPON IMPROVEMENTS ADJUSTMENTS MAY BE DIRECTED BY THE PROJECT ENGINEER TO AVOID UTILITY CONFLICTS. HAND DIGGING OR OTHER MEANS OF EXCAVATION MAYBE REQUIRED.
- U8. AS THE CONTRACTOR APPROACHESBURIED UTILITY FACILITIES, THE UTILITY FACILITIES SHALL BE EXPOSED THROUGH A NON-DESTRUCTIVE MEANS PRIOR TO MECHANICAL EXCAVATION. DAMAGES THAT ARE INCURRED ARE AT THE CONTRACTOR'S EXPENSE IF METHODS THAT DO NOT MEET THE APPROVED REQUIREMENTS ARE USED.

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	Unit Information						Void:	Sheet Subset: WATERLINE		Sheet Number
10718 BRADSHAW SUITE 3400 DENVER, CO 80202 PHONE: 303.440.3300 FAX: 303.440.3318				KCC			Sheet Sheets: 2 of 38			

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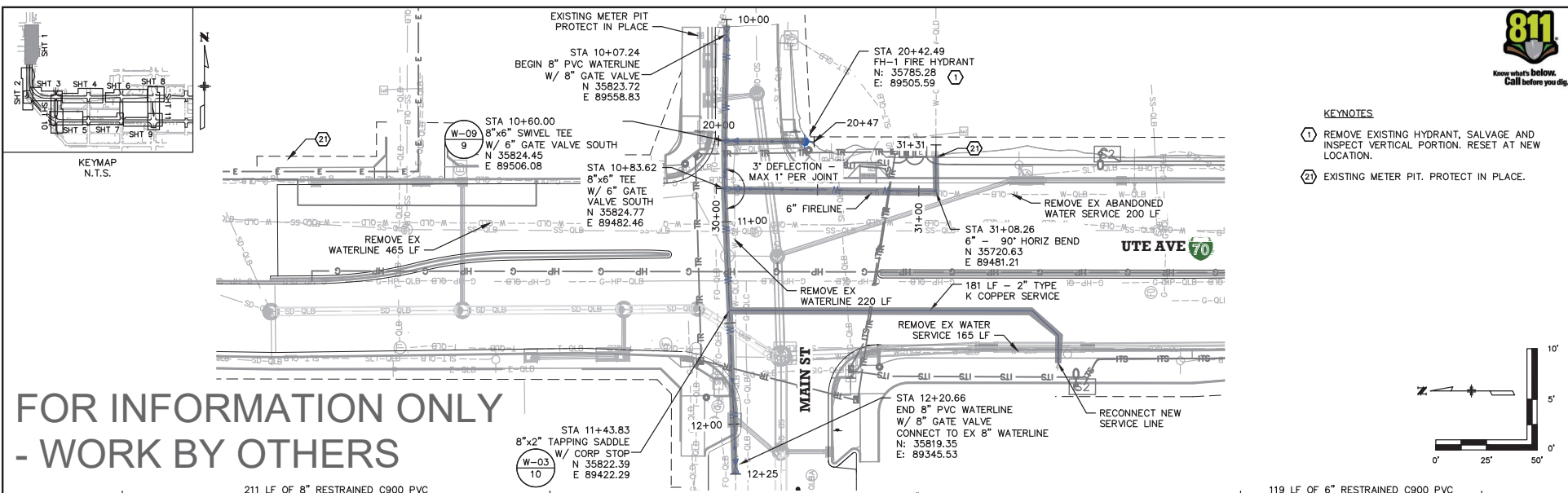


TABULATION OF WATERLINE UTILITIES																							
STATION		ALIGNMENT	202-00032		202-00035		Sawing Asphalt Material (6 Inch)	Structure Backfill (Flow-Fill)	Filter Material (Class A)	210-00035		210-00050		210-04060		250-00224		619-00002		619-00006		619-00007	
			Removal of Valve		Removal of Pipe					PLAN	PLAN	PLAN	Reset Water Meter		Reset Fire Hydrant		Adjust Water Meter		Hazardous Waste Disposal (Radioactive)		Water Service		Connect to New Waterline
			FROM	TO	PLAN	AS CONST.	PLAN	AS CONST.	PLAN				AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
10+00	16+00	UTE AVE (SHT 6)	4		596		1256	174	139	1		3		3		314		1					
16+00	22+95	UTE AVE (SHT 7)	4		692		1502	209	168			1		6		376							2
10+00	14+00	PITKIN AVE (SHT 8)	5		392		822	114	92	2		1		9		206							
14+00	18+49	PITKIN AVE (SHT 9)	4		520		1138	158	127			2		11		285							2
10+00	15+50	2ND ST (SHT 10)	1		450		1128	157	124			1		6		280					2		1
<b>PROJECT TOTALS</b>			<b>18</b>		<b>2650</b>		<b>5846</b>	<b>812</b>	<b>649</b>	<b>3</b>		<b>8</b>		<b>35</b>		<b>1461</b>		<b>1</b>		<b>2</b>		<b>5</b>	

TABULATION OF WATERLINE UTILITIES																											
STATION		ALIGNMENT	619-40060		619-40120		619-40160		619-50240		619-50320		619-50480		619-50640		619-75048		619-75064		619-77206		619-77208		619-77300		
			3/4 Inch Copper Pipe		1.5 Inch Copper Pipe		2 Inch Copper Pipe		3 Inch Plastic Pipe		4 Inch Plastic Pipe		6 Inch Plastic Pipe		8 Inch Plastic Pipe		6 Inch Gate Valve		8 Inch Gate Valve		6-Inch Restrained Coupling Adapter		8-Inch Restrained Coupling Adapter		Corporation Stop		
			FROM	TO	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN
10+00	16+00	UTE AVE (SHT 6)	69		28							82		546		3		2		15		38				5	
16+00	22+95	UTE AVE (SHT 7)	132		36							16		735		1		2		3		58				6	
10+00	14+00	PITKIN AVE (SHT 8)	65					32		32		19		392		1		1		4		26				11	
14+00	18+49	PITKIN AVE (SHT 9)	154									49		520		2		3		13		54				11	
10+00	15+50	2ND ST (SHT 10)	120									210		354		2		2		42		25				6	
<b>PROJECT TOTALS</b>			<b>540</b>		<b>64</b>		<b>0</b>		<b>32</b>		<b>32</b>		<b>376</b>		<b>2547</b>		<b>9</b>		<b>10</b>		<b>77</b>		<b>201</b>		<b>39</b>		

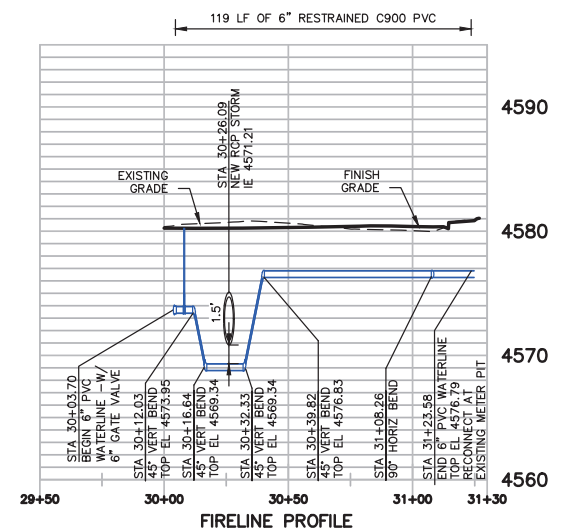
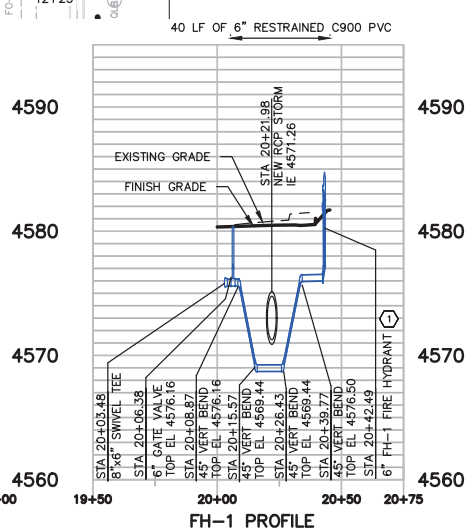
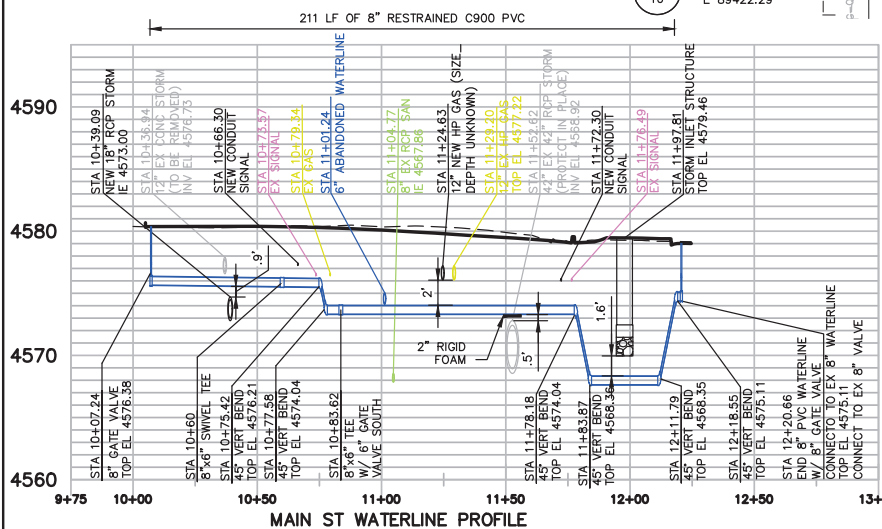
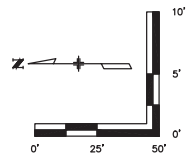
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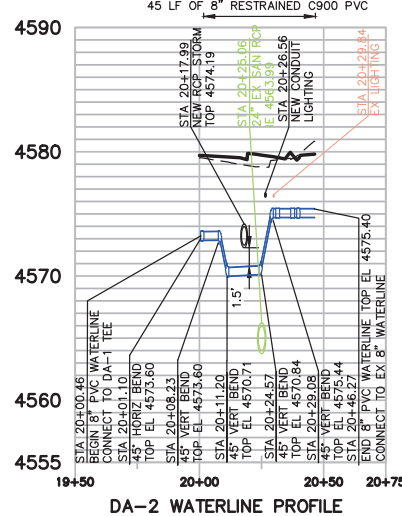
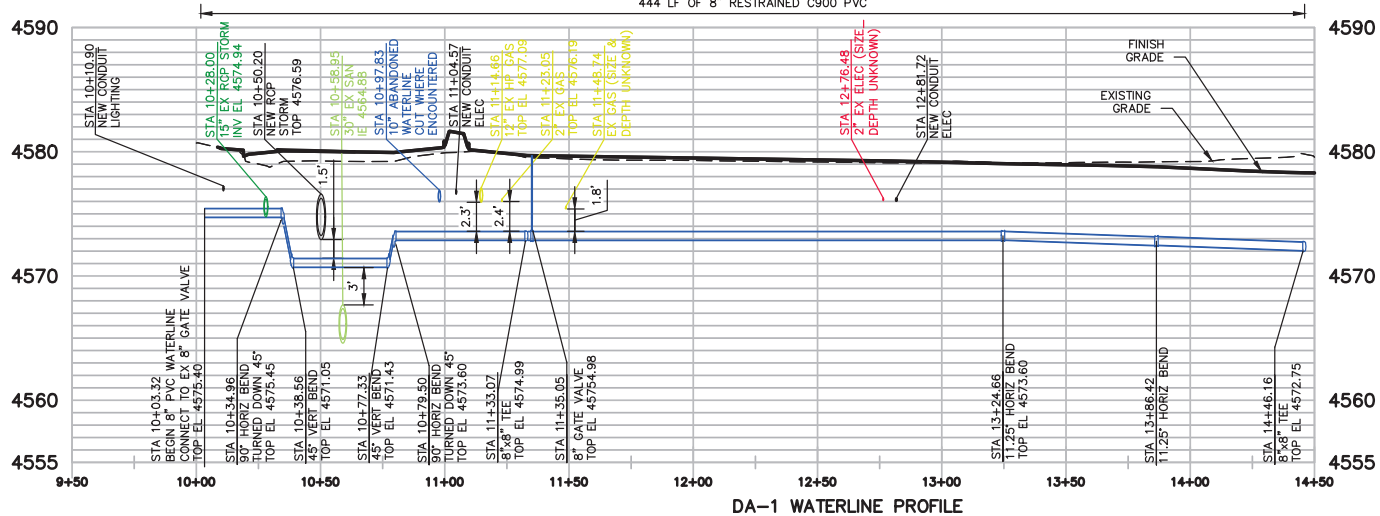
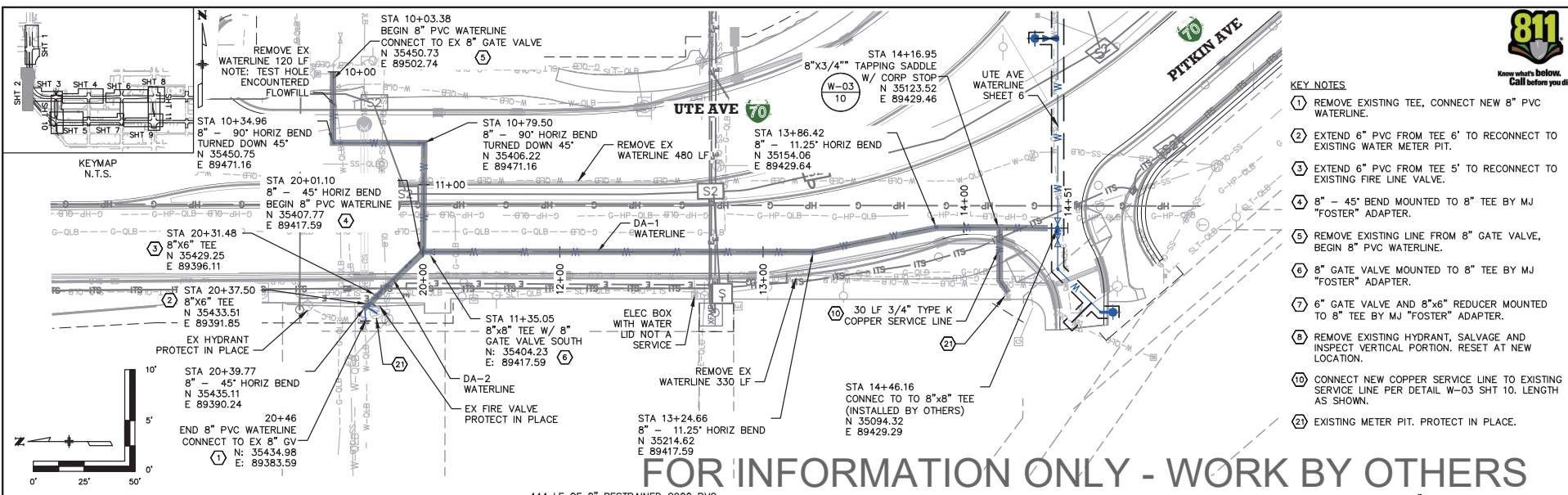


**FOR INFORMATION ONLY  
- WORK BY OTHERS**

- KEYNOTES**
- ① REMOVE EXISTING HYDRANT, SALVAGE AND INSPECT VERTICAL PORTION. RESET AT NEW LOCATION.
  - ② EXISTING METER PIT. PROTECT IN PLACE.

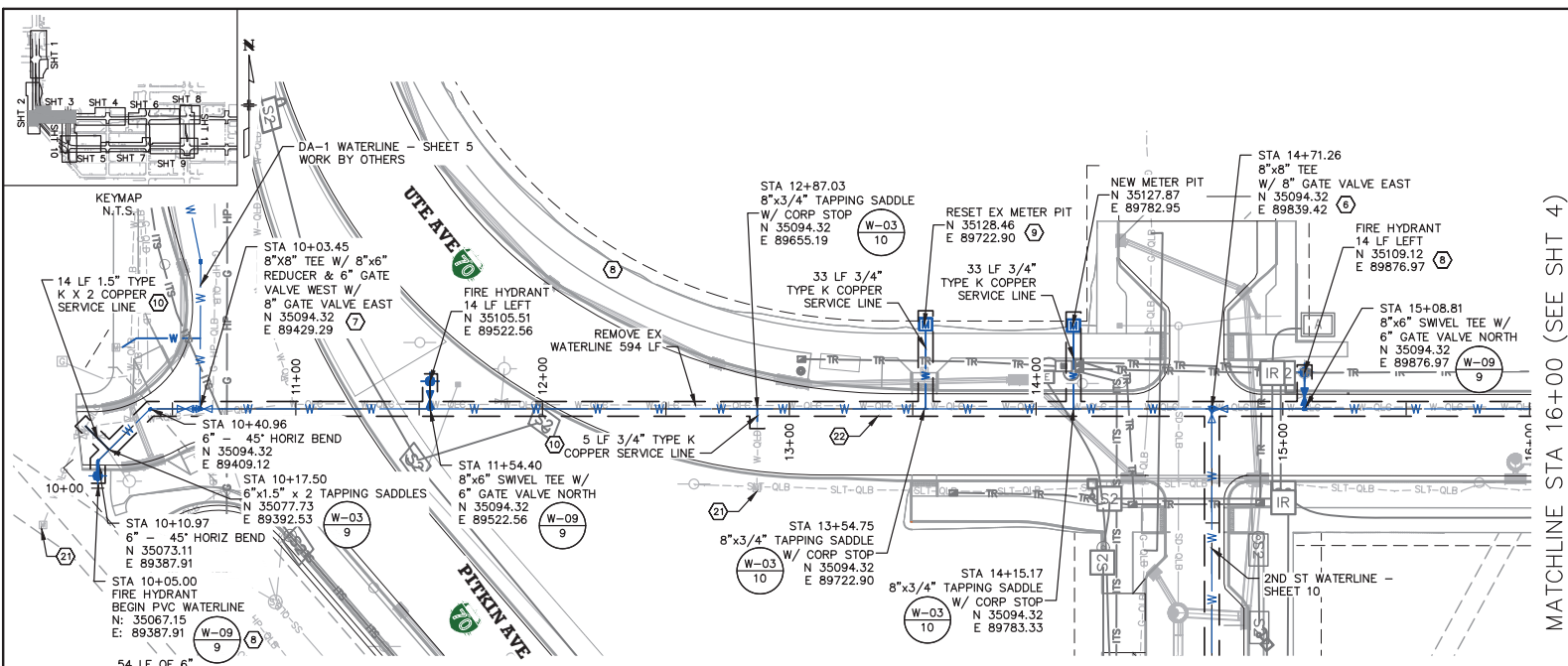


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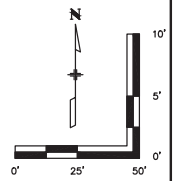
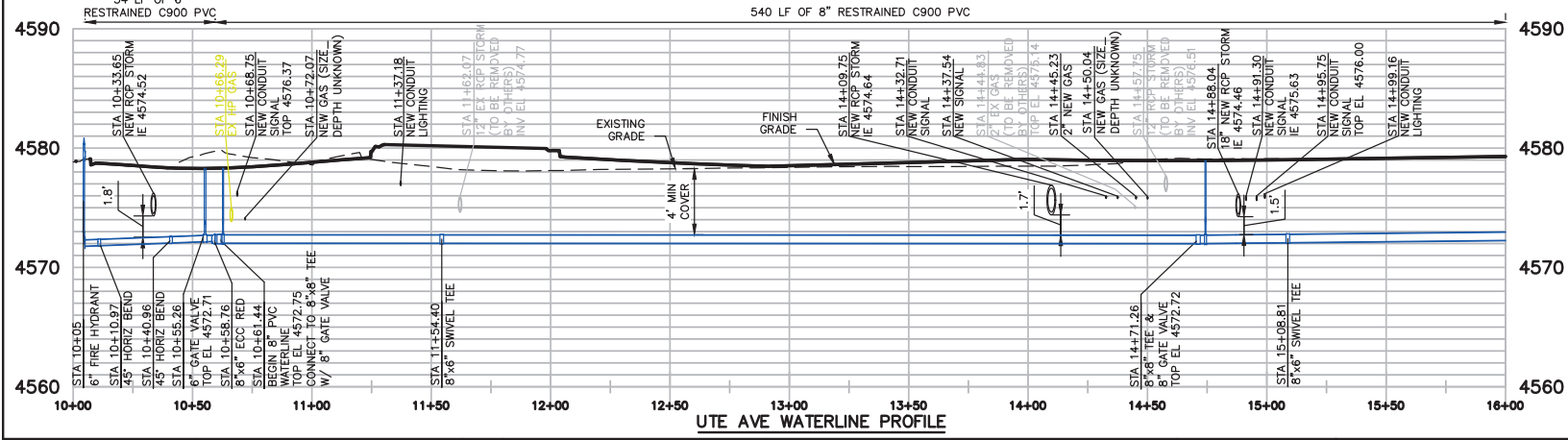
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HDR 1000 BROADWAY SUITE 300 DENVER, COLORADO 80202 PHONE: 303.733.3300 FAX: 303.733.3318	CITY OF GRAND JUNCTION COLORADO		KCC						

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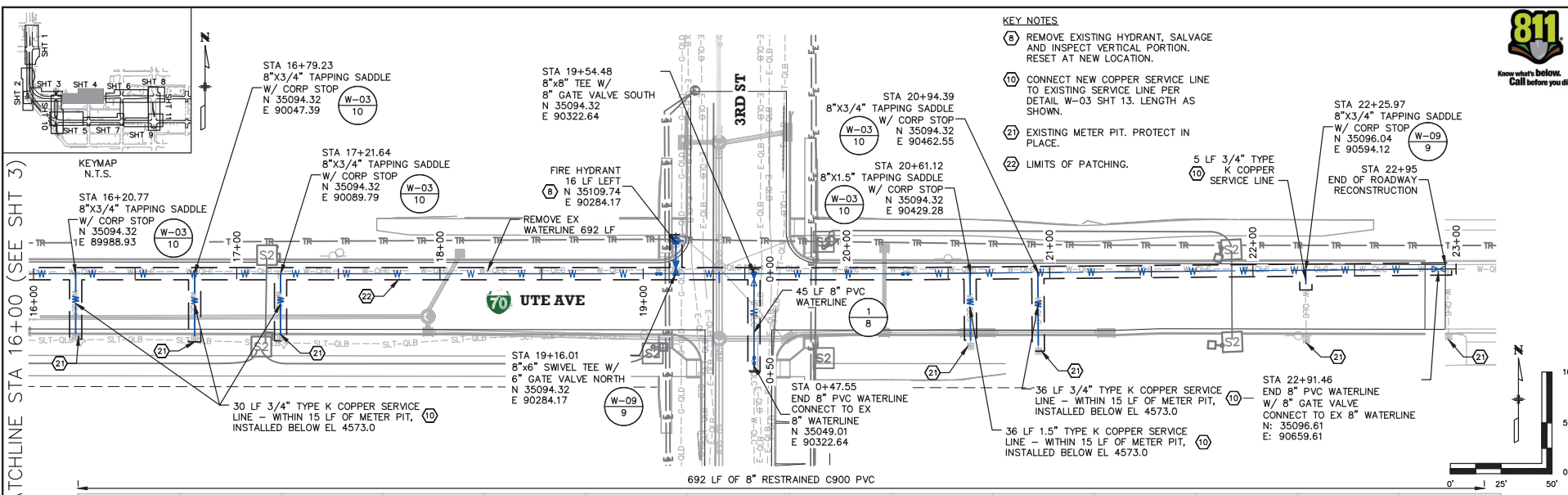


- KEY NOTES**
- ⑦ 6" GATE VALVE AND 8"x6" REDUCER MOUNTED TO 8" TEE BY MJ "FOSTER ADAPTER.
  - ⑧ REMOVE EXISTING HYDRANT, SALVAGE AND INSPECT VERTICAL PORTION. RESET AT NEW LOCATION.
  - ⑨ REMOVE AND RESET EXISTING METER PIT. SEE DETAIL W-03/SHT 13.
  - ⑩ CONNECT NEW COPPER SERVICE LINE TO EXISTING SERVICE LINE PER DETAIL W-03 SHT 13. LENGTH AS SHOWN.
  - ⑪ EXISTING METER PIT. PROTECT IN PLACE.
  - ⑫ LIMITS OF PATCHING.

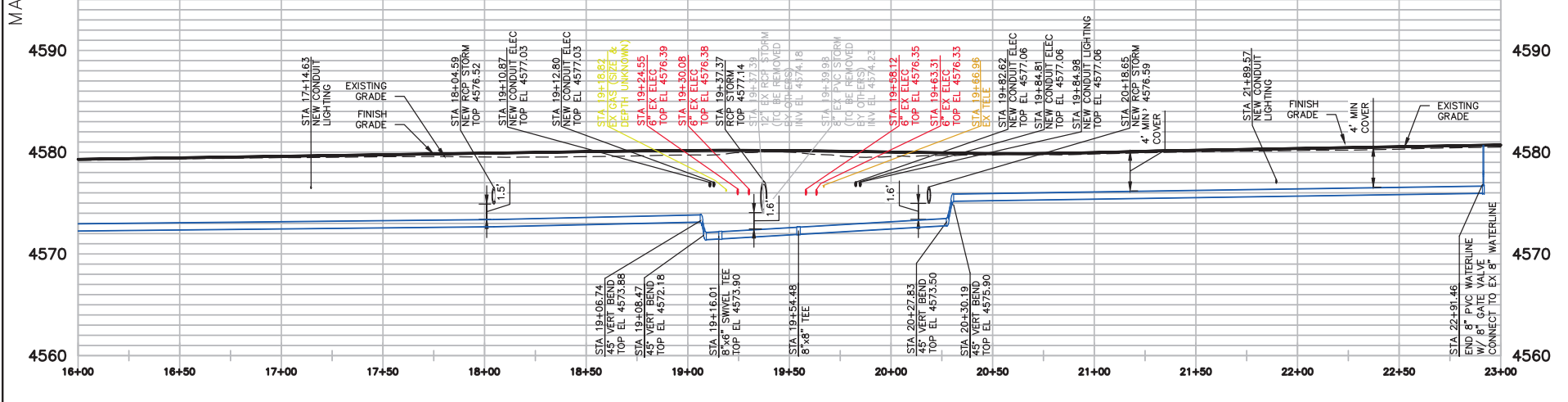
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MATCHLINE STA 16+00 (SEE SHT 3)

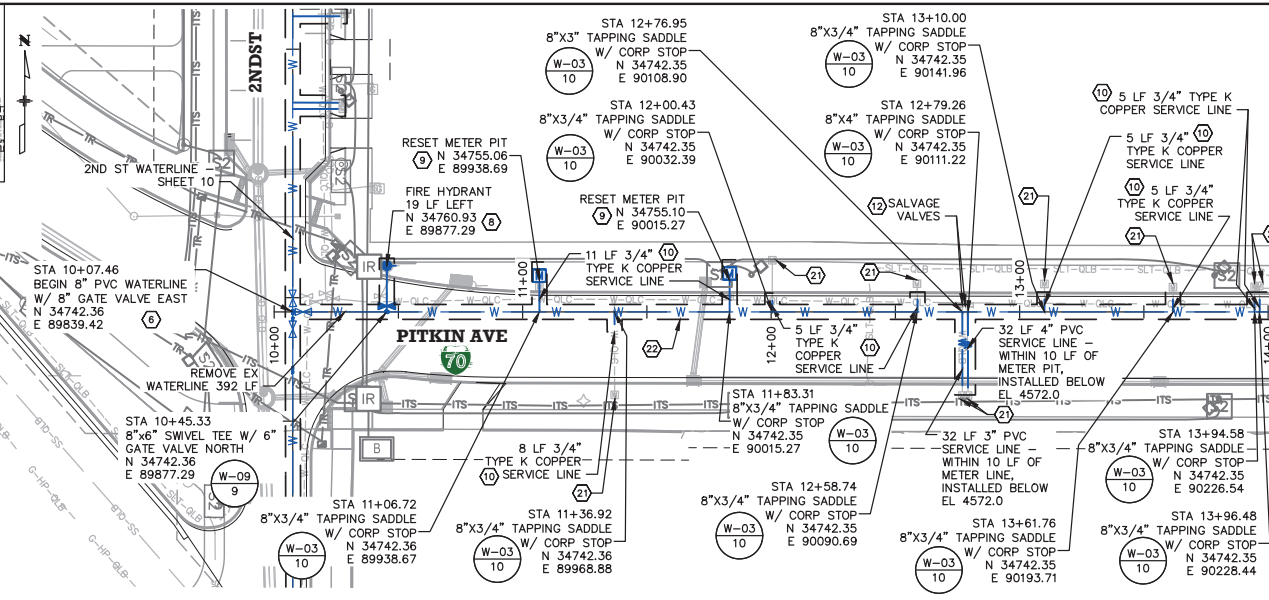
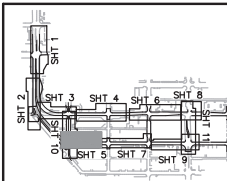


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	File Name: 4.DWG	Date:	Comments	Init.		No Revisions:			NHPP 070A-037
	Horiz. Scale:	Vert. Scale: As Noted				Revised:	Designer: B. LUSTER	Structure Numbers	23583
	Unit Information					Void:	Sheet Subset: WATERLINE		Sheet Subsets: 7 of 38

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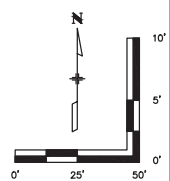
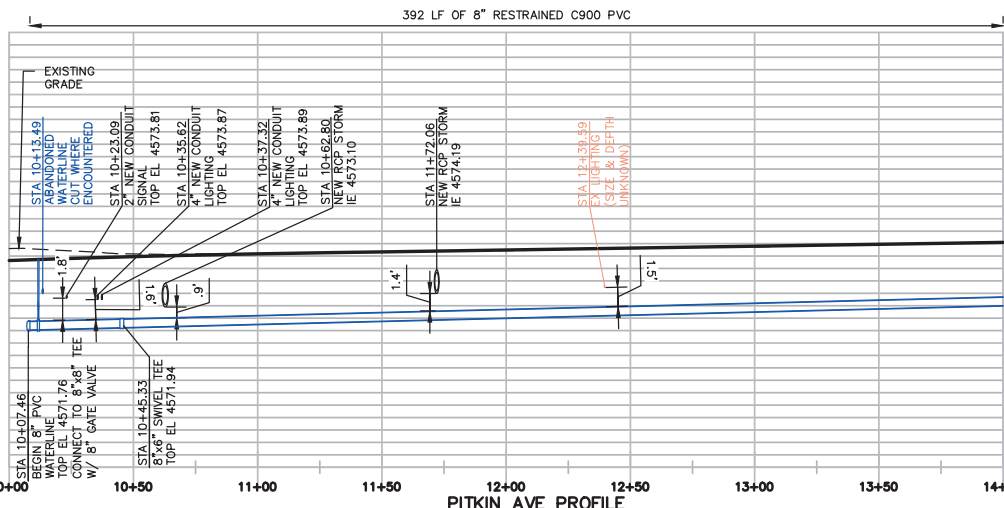


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MATCHLINE 1-70 STA 14+00 (SEE SHEET 7)

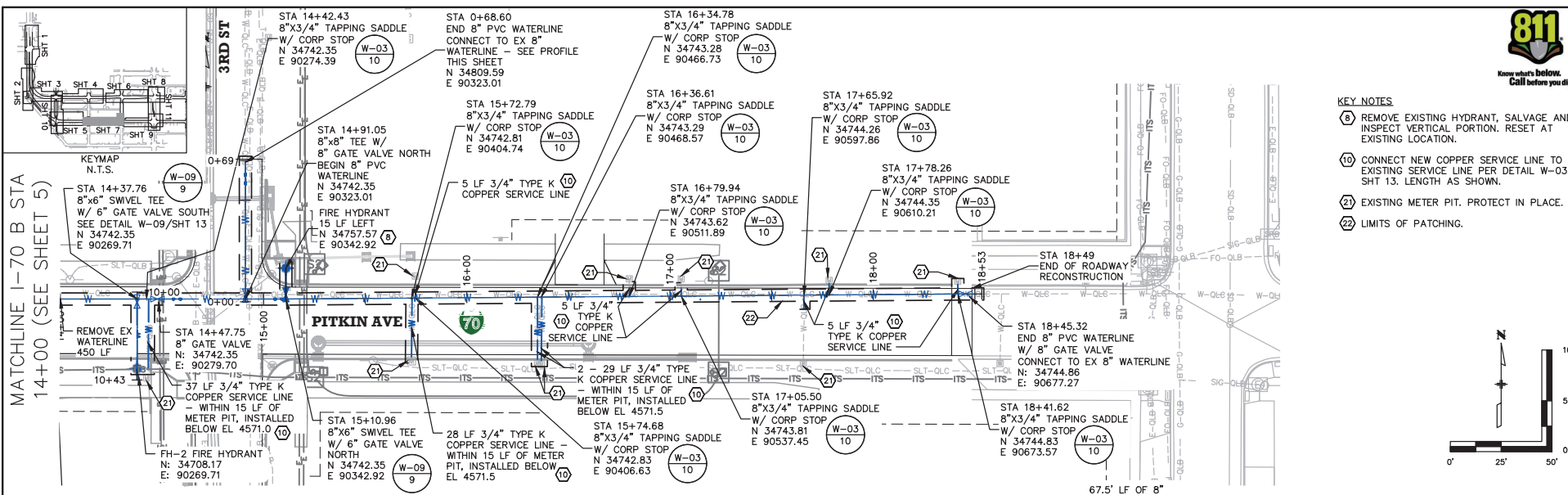
- KEY NOTES**
- (6) 8" GATE VALVE MOUNTED TO 8" TEE BY MJ "FOSTER" ADAPTER.
  - (8) REMOVE EXISTING HYDRANT, SALVAGE AND INSPECT VERTICAL PORTION. RESET AT NEW LOCATION.
  - (9) REMOVE AND RESET EXISTING METER PIT. SEE DETAIL W-03/SHT 13.
  - (10) CONNECT NEW COPPER SERVICE LINE TO EXISTING SERVICE LINE PER DETAIL W-03 SHT 13. LENGTH AS SHOWN.
  - (12) SALVAGE EXISTING 3" AND 4" VALVES AND VALVE BOX ASSEMBLIES, INSPECT, AND REINSTALL ON APPLICABLE SERVICE LINES ADJACENT TO MAINLINE.
  - (21) EXISTING METER PIT. PROTECT IN PLACE.
  - (22) LIMITS OF PATCHING.



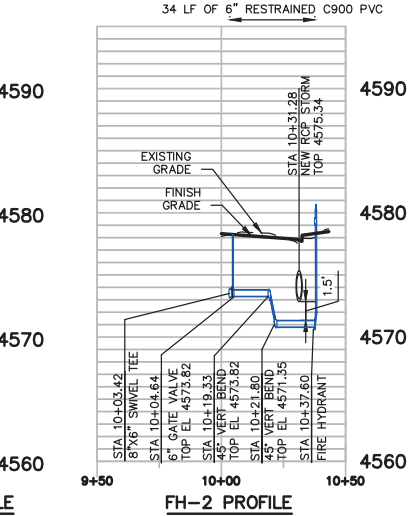
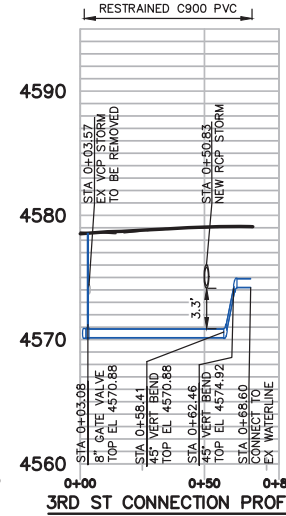
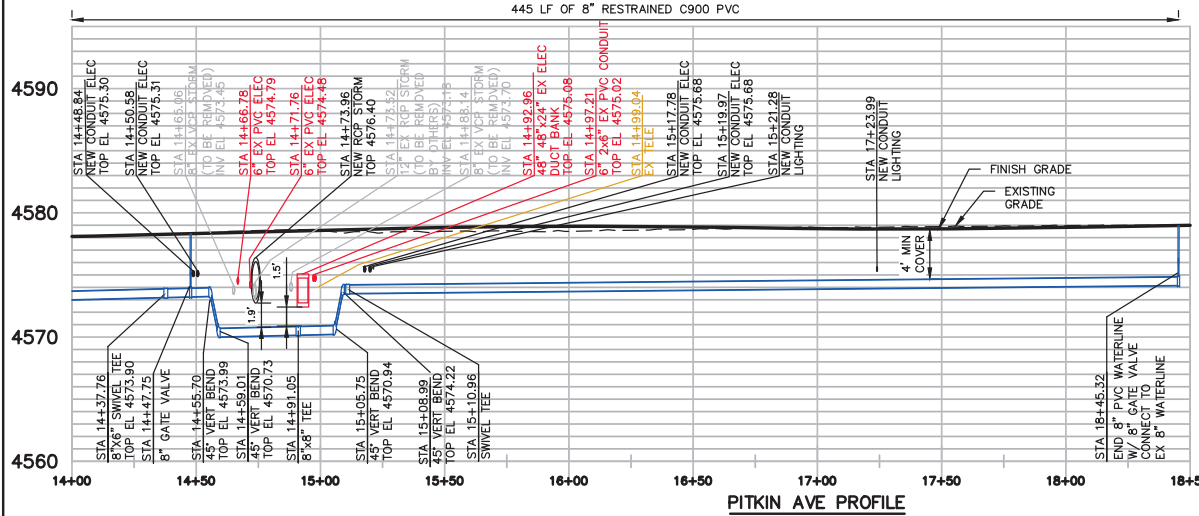
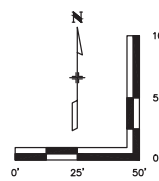
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	Horiz. Scale:      Vert. Scale: As Noted				No Revisions:	Designer: B. LUSTER      Structure Detailer: C. WITTENMEIER      Numbers		23583
		Grand Junction City Hall 250 North 5th Street Grand Junction, CO 81501 970-244-1501		Revised:	Sheet Subset: WATERLINE      Subset Sheets: 8 of 38		Sheet Number	
	Unit Information	KCC		Void:				

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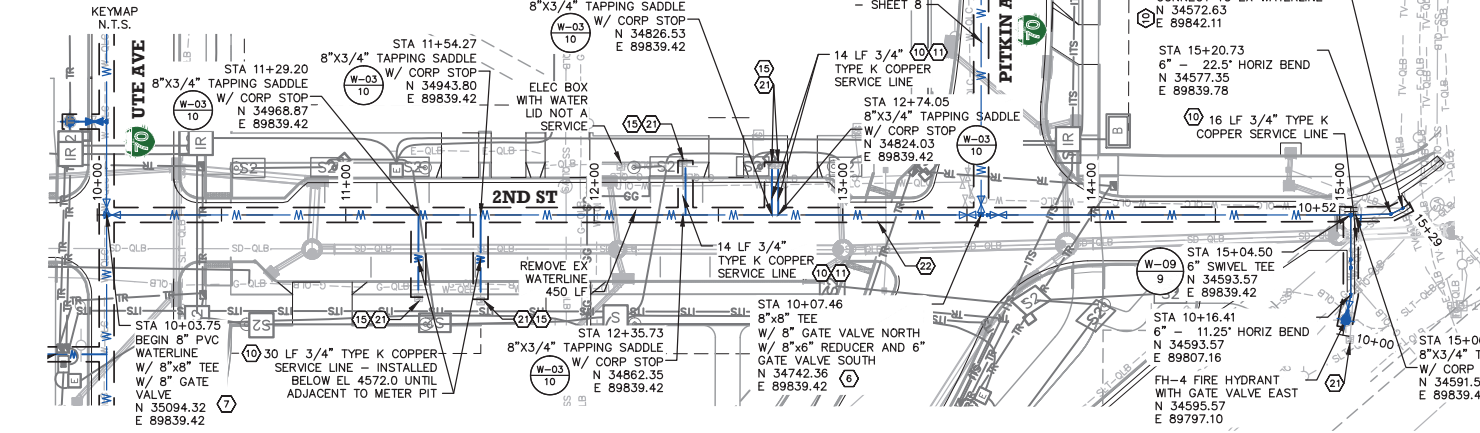
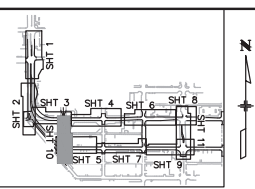


- KEY NOTES**
- (8) REMOVE EXISTING HYDRANT, SALVAGE AND INSPECT VERTICAL PORTION. RESET AT EXISTING LOCATION.
  - (10) CONNECT NEW COPPER SERVICE LINE TO EXISTING SERVICE LINE PER DETAIL W-03 SHT 13. LENGTH AS SHOWN.
  - (21) EXISTING METER PIT. PROTECT IN PLACE.
  - (22) LIMITS OF PATCHING.

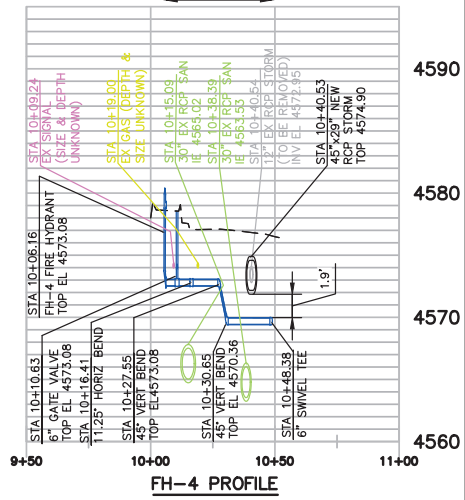
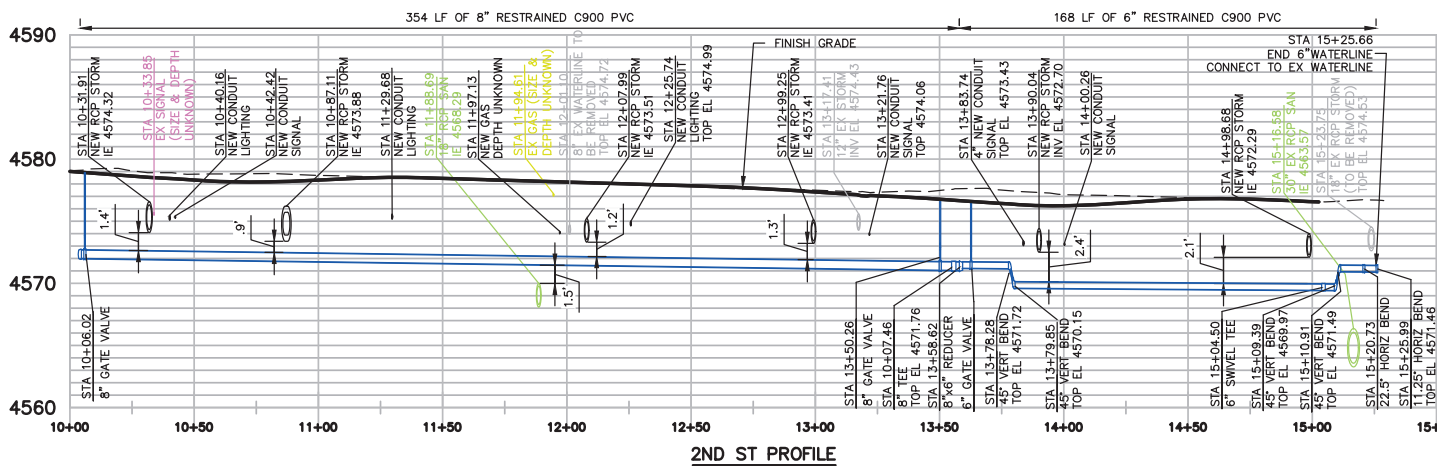
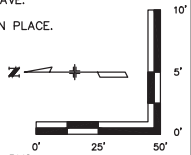


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	Unit Information 	Horizontal Scale:            Vertical Scale: As Noted	City of Grand Junction COLORADO	KCC	Structure Numbers 9 of 38	Sheet Sheets:
	Vertical Scale: As Noted	Comments	Grand Junction City Hall 250 North 5th Street Grand Junction, CO 81501 970-244-1501	No Revisions: Revised: Void:	Designer: B. LUSTER Detailer: C. WITTENMEIER Sheet Subset: WATERLINE	Structure Numbers 9 of 38
	Unit Information 	Horizontal Scale:            Vertical Scale: As Noted	City of Grand Junction COLORADO	No Revisions: Revised: Void:	Designer: B. LUSTER Detailer: C. WITTENMEIER Sheet Subset: WATERLINE	Structure Numbers 9 of 38

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- KEY NOTES**
- 6 8" GATE VALVE MOUNTED TO 8" TEE BY MJ "FOSTER" ADAPTER.
  - 7 8" GATE VALVE MOUNTED TO 8" TEE BY MJ "FOSTER" ADAPTER.
  - 8 REMOVE EXISTING HYDRANT, SALVAGE AND INSPECT VERTICAL PORTION. RESET AT EXISTING LOCATION.
  - 9 REMOVE AND RESET EXISTING METER PIT. SEE DETAIL W-03/SHT 13.
  - 10 CONNECT NEW COPPER SERVICE LINE TO EXISTING SERVICE LINE PER DETAIL W-03 SHT 13. LENGTH AS SHOWN.
  - 11 330 BREWERY FIRE AND WATER METER SERVICE LINES TIE TO NEW WATERLINE. REMOVE EXISTING/ABANDONED WATERLINE AS ENCOUNTERED/REQUIRED.
  - 14 DEFLECT JOINTS A MAXIMUM OF 1 DEG/EA TO MAINTAIN ALIGNMENT.
  - 15 ADJUST METER PIT LID AS NEEDED, CONNECT NEW SERVICE.
  - 20 CONTRACTOR TO VERIFY EXISTING MATERIAL AND DIAMETER. EXISTING VALVE LOCATED 290 LF SE IN SOUTH AVE.
  - 21 EXISTING METER PIT. PROTECT IN PLACE.
  - 22 LIMITS OF PATCHING.



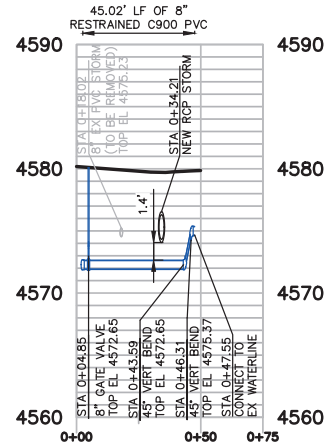
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				KCC		Void:	Sheet Subset: WATERLINE	Subset Sheets: 10 of 38	Sheet Number

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**GENERAL NOTES:**

- EXISTING SEWERS, WATER MAINS, GAS MAINS, TELEPHONE CONDUITS, ELECTRIC CABLES, AND OTHER UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THE DRAWINGS ARE DEPICTED AT QUALITY LEVEL B PER ASCE 38-02 UNLESS NOTED OTHERWISE. THESE SUBSURFACE UTILITIES AND STRUCTURES ARE SHOWN ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION AND QUANTITIES OF BURIED UTILITIES AND STRUCTURES SHOWN. THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR BUT IS NOT GUARANTEED TO BE COMPLETE AND ALL RESPONSIBILITY OF THE ACCURACY AND COMPLETENESS IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL MAKE SUCH INVESTIGATION AS HE THINKS NECESSARY TO VERIFY ITS CORRECTNESS AND COMPLETENESS. THE CONTRACTOR SHALL FIELD LOCATE AND PROTECT, AHEAD OF CONSTRUCTION ACTIVITIES, ALL UNDERGROUND UTILITIES AND STRUCTURES SO THAT THEY WILL NOT BE ACCIDENTALLY CUT OR DAMAGED BY CONSTRUCTION OPERATIONS.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE DRAWINGS (APPROVED BY THE CITY OF GRAND JUNCTION), ONE COPY OF ANY APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ALL PERMITS NEEDED AT THE JOB SITE AT ALL TIMES.
- EXISTING CITY OF GRAND JUNCTION OWNED VALVES SHALL ONLY BE OPERATED BY CITY OF GRAND JUNCTION PERSONNEL.
- THE CONTRACTOR SHALL:
  - NOTIFY THE CITY'S PROJECT MANAGER AND THE ENGINEER AT LEAST 7 DAYS IN ADVANCE TO SHUT DOWN ANY PORTION OF THE EXISTING WATER SYSTEM.
  - NOTIFY THE RESIDENT PROJECT REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE TO REQUEST FIELD OBSERVATION OR INSPECTIONS.
  - NOTIFY THE CITY OF GRAND JUNCTION IMMEDIATELY OF EMERGENCIES SUCH AS LINE BREAKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING CONSTRUCTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED, AND DISPOSED IN A MANNER WHICH DOES NOT CAUSE FLOODING, EROSION, OR TURBIDITY THAT MAY EFFECT DOWNSTREAM USERS. NO CONCRETE SHALL BE PLACED WHERE GROUNDWATER IS VISIBLE OR UNTIL THE GROUNDWATER TABLE HAS BEEN LOWERED DURING THE PROPOSED IMPROVEMENTS. ANY UNSTABLE AREAS AS A RESULT OF GROUNDWATER ENCOUNTERED DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE STABILIZED AS AGREED UPON BY THE CONTRACTOR, THE CITY OF GRAND JUNCTION, AND HDR AT THE TIME OF OCCURRENCE. A PERMIT IS REQUIRED FROM THE WATER QUALITY CONTROL DIVISION OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT FOR THE CONSTRUCTION DEWATERING DRAINAGE.
- CONTRACTOR TO MAINTAIN RECORD DRAWINGS OF AS-CONSTRUCTED LOCATION OF ALL VALVES, FITTINGS, AND CONNECTIONS TO EXISTING SYSTEM PIPES. RECORD NORTING AND EASTING COORDINATES OF INSTALLED LOCATIONS.
- THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO EXISTING SERVICE LOCATIONS AT ALL TIMES EXCEPT FOR SHORT DURATION OUTAGES DUE TO TIE-OVERS TO THE NEWLY INSTALLED WATER LINE.
- WATER SERVICE LOCATIONS TO BE IDENTIFIED BY STAMPED "W" IN THE REPLACED CURBFACE.

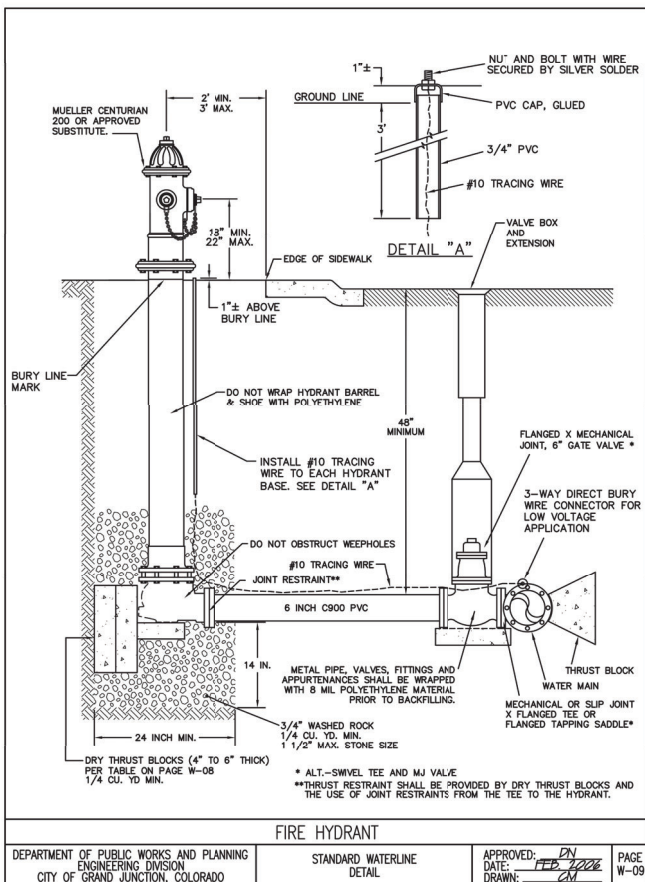


**UTE & 3RD ST  
WATERLINE CONNECTION DETAIL**  
SCALE 1" = 50' HORIZ 1" = 10' VERT

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	Date:	Comments	Init.																		
HDR <small>1675 BRADSHAW SUITE 300 DENVER, CO 80202 PHONE: 303.733.0300 FAX: 303.733.0718</small>	KCC	Sheet Numbers 11 of 38																			
Unit Information	Grand Junction City Hall 250 North 5th Street Grand Junction, CO 81501 970-244-1501	Structure Numbers																			
Sheet Revisions table	Grand Junction City Hall 250 North 5th Street Grand Junction, CO 81501 970-244-1501	Subsets																			

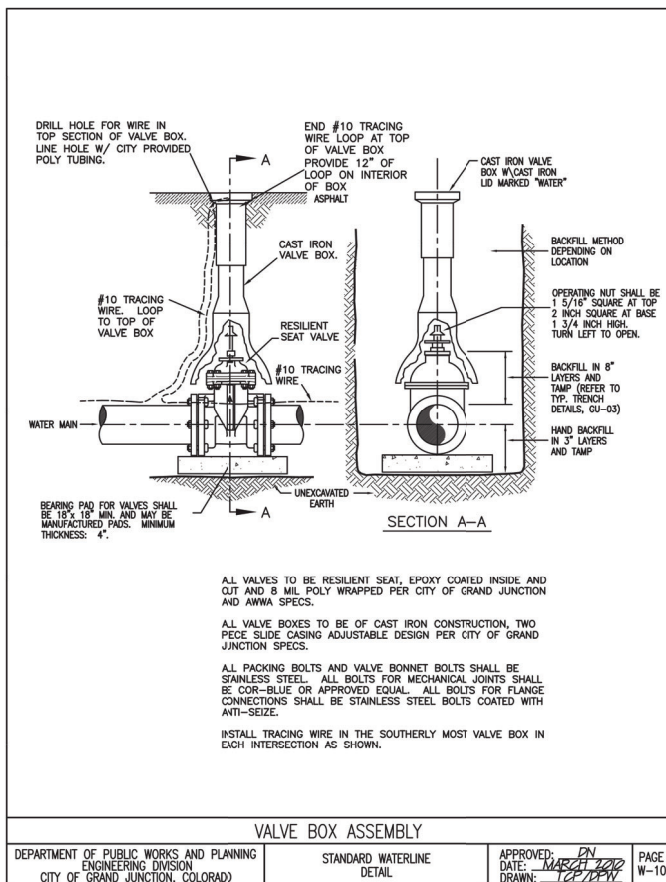


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**FIRE HYDRANT**

DEPARTMENT OF PUBLIC WORKS AND PLANNING ENGINEERING DIVISION CITY OF GRAND JUNCTION, COLORADO	STANDARD WATERLINE DETAIL	APPROVED: <i>DW</i> DATE: <i>FEB 2008</i> DRAWN: <i>CM</i>	PAGE W-09
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**VALVE BOX ASSEMBLY**

DEPARTMENT OF PUBLIC WORKS AND PLANNING ENGINEERING DIVISION CITY OF GRAND JUNCTION, COLORADO	STANDARD WATERLINE DETAIL	APPROVED: <i>DW</i> DATE: <i>MARCH 2008</i> DRAWN: <i>CM</i>	PAGE W-10
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ALL VALVES TO BE RESILIENT SEAT, EPOXY COATED INSIDE AND CUT AND 8 MIL POLY WRAPPED PER CITY OF GRAND JUNCTION AND AWWA SPECS.

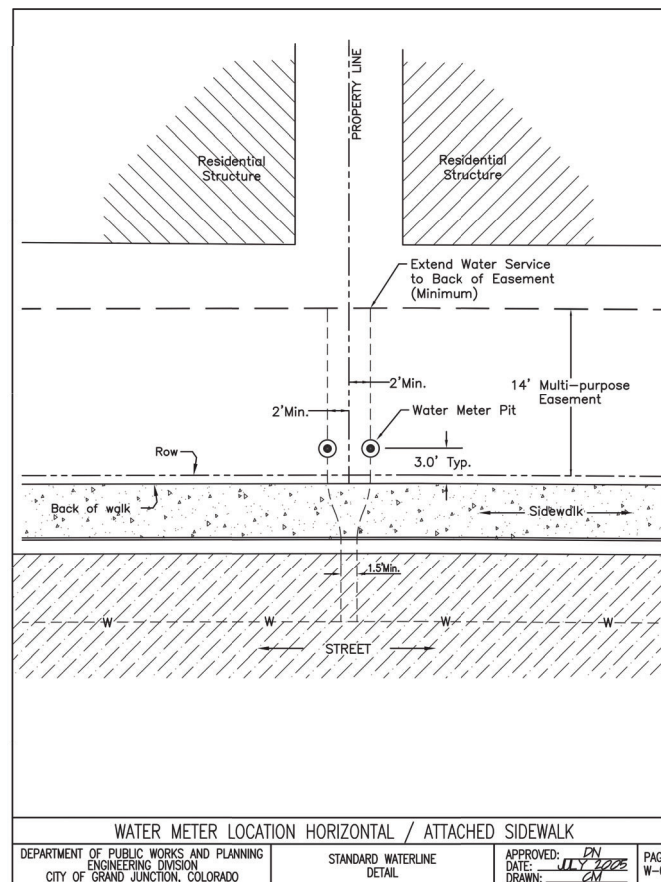
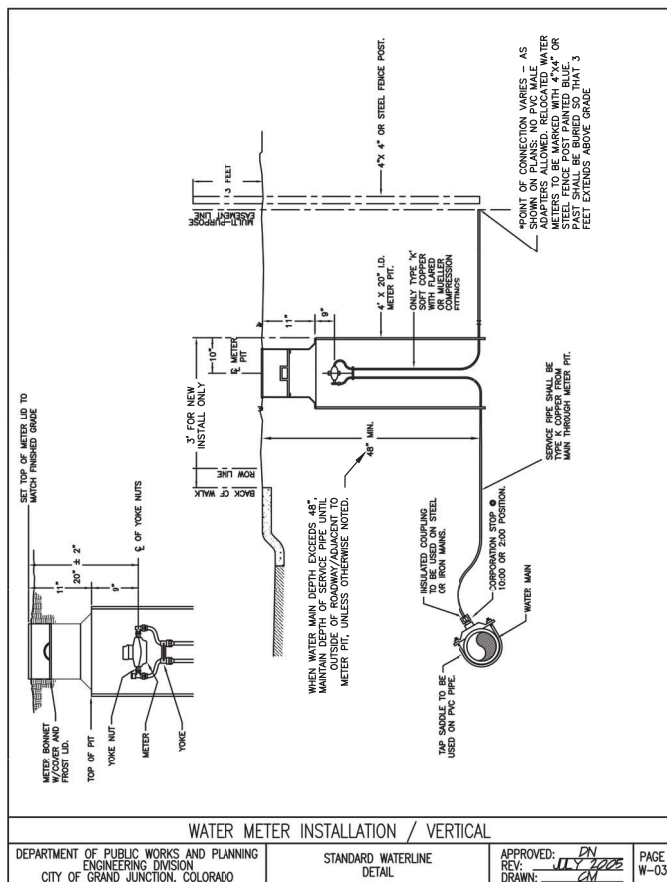
ALL VALVE BOXES TO BE OF CAST IRON CONSTRUCTION, TWO PECE SLIDE CASING ADJUSTABLE DESIGN PER CITY OF GRAND JUNCTION SPECS.

ALL PACKING BOLTS AND VALVE BONNET BOLTS SHALL BE STAINLESS STEEL. ALL BOLTS FOR MECHANICAL JOINTS SHALL BE COR-BLUE OR APPROVED EQUAL. ALL BOLTS FOR FLANGE CONNECTIONS SHALL BE STAINLESS STEEL BOLTS COATED WITH ANTI-SEIZE.

INSTALL TRACING WIRE IN THE SOUTHERLY MOST VALVE BOX IN EACH INTERSECTION AS SHOWN.

11/2/23 CWITTENMEI c:\pwworking\central01\03146741\12.dwg

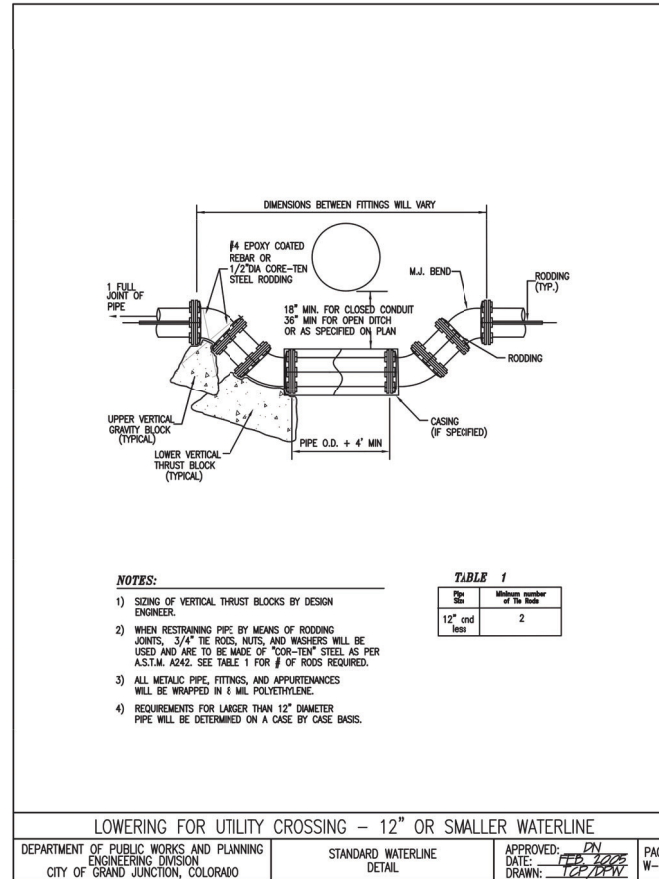
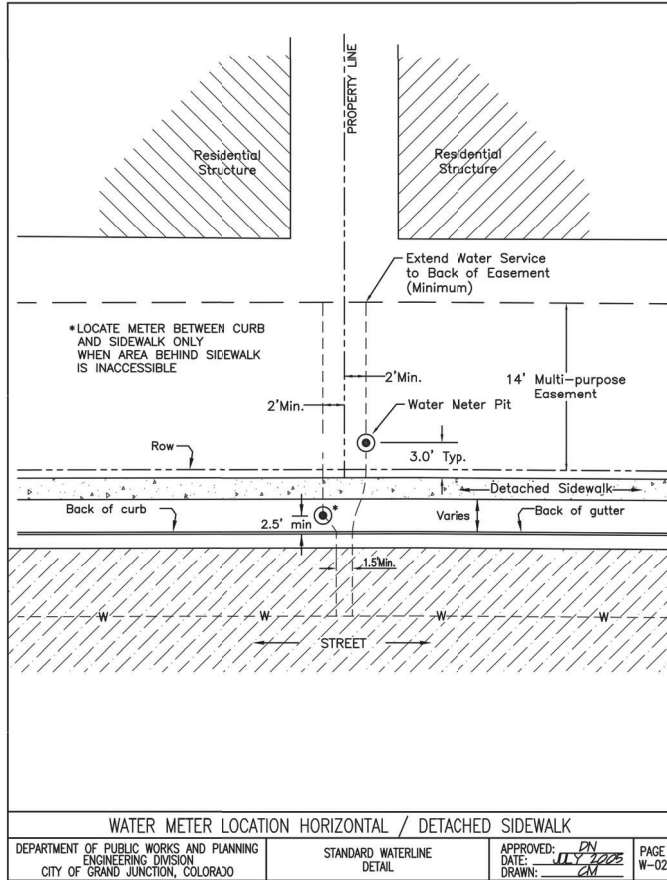
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	File Name: 12.DWG	Date:	Comments	Init.	Grand Junction City Hall 250 North 5th Street Grand Junction, CO 81501 970-244-1501	No Revisions:	NHPP 070A-037		
	Horiz. Scale:      Vert. Scale: As Noted					Revised:	Designer: B. LUSTER	Structure Numbers	23583
	Unit Information					Void:	Detailer: C. WITTENMEIER		
10700 BROADWAY SUITE 300 DENVER, COLORADO 80202 PHONE: 303.733.0300 FAX: 303.733.0118				KCC		Sheet Subset: WATERLINE		Subset Sheets: 12 of 38	Sheet Number



\*MODIFIED FOR THIS PROJECT

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	Unit Information	Unit Information	Unit Information		Unit Information	Void:	Sheet Subset: WATERLINE	Subset Sheets: 13 of 38	Sheet Number

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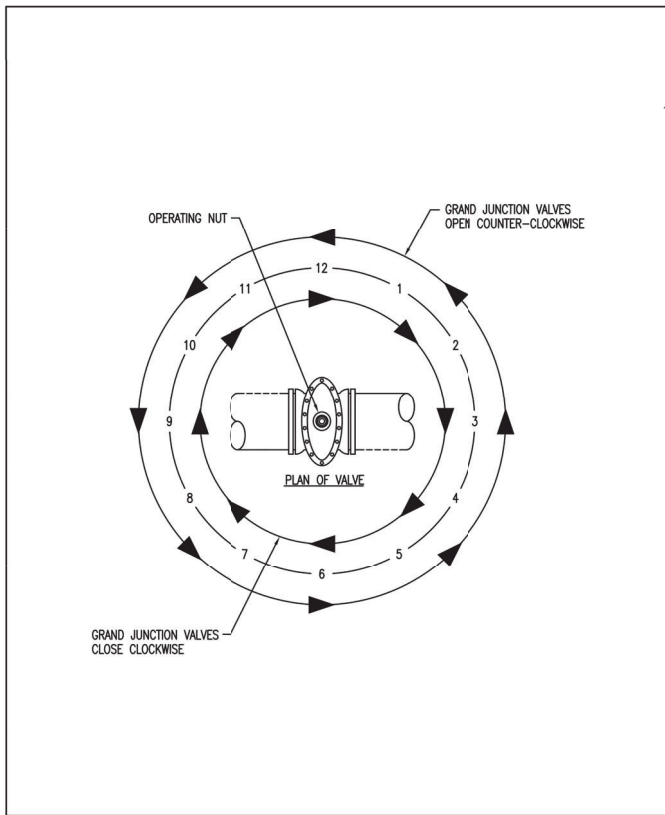
\*FOR USE IN FIELD FIT LOWERING LOCATIONS, OTHERWISE PROFILES AS SHOWN.

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	Unit Information						Void:		Detailer: C. WITTENMEIER	Sheet Subset: WATERLINE
<b>HR</b> NORTHGARDWAY SUITE 3400 DENVER, CO 80202 PHONE: 303.733.3300 FAX: 303.733.3318	CITY OF Grand Junction COLORADO Grand Junction City Hall 250 North 5th Street Grand Junction, CO 81501 970-244-1501			KCC			Sheet Number			

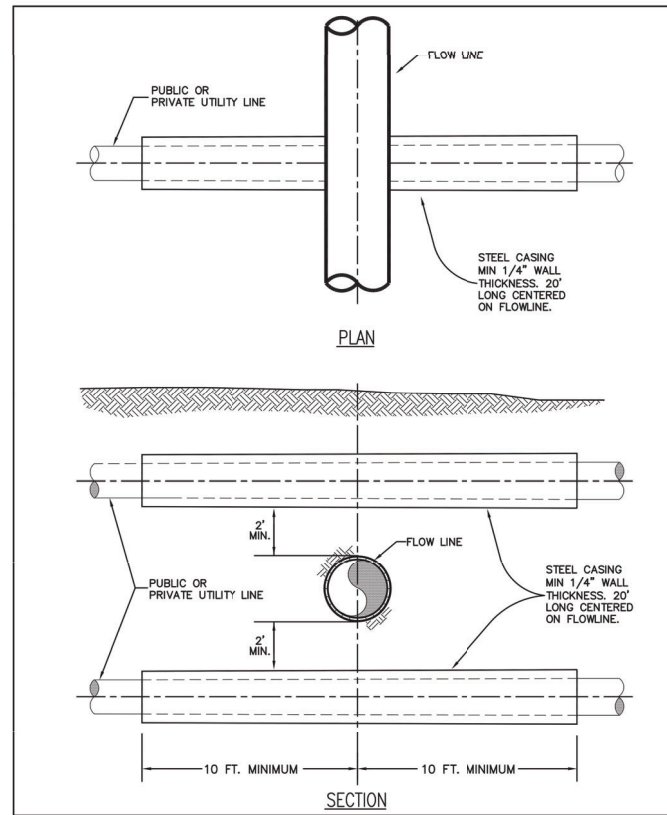


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VALVE OPERATION

DEPARTMENT OF PUBLIC WORKS AND PLANNING ENGINEERING DIVISION CITY OF GRAND JUNCTION, COLORADO	STANDARD WATERLINE DETAIL	APPROVED: <i>DN</i> DATES: <i>SEP 2022</i> DRAWN: <i>TOP DEN</i>	PAGE W-14
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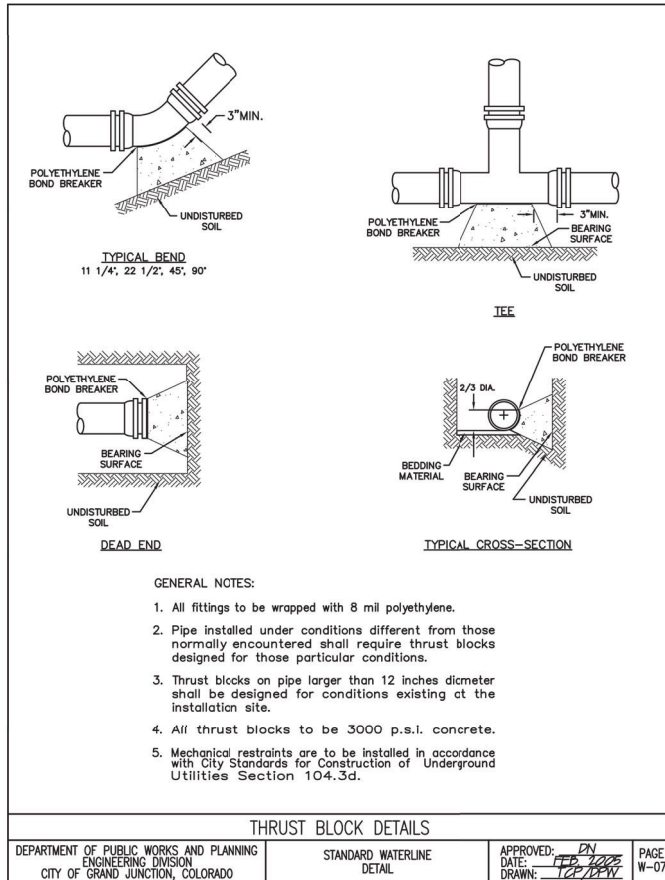


TYPICAL DOMESTIC WATER FLOWLINE AND PUBLIC OR PRIVATE UTILITY CROSSING

DEPARTMENT OF PUBLIC WORKS AND PLANNING ENGINEERING DIVISION CITY OF GRAND JUNCTION, COLORADO	STANDARD WATERLINE DETAIL	APPROVED: <i>SPB</i> REV: <i>JUNE 2022</i> DRAWN: <i>KS</i>	PAGE W-17
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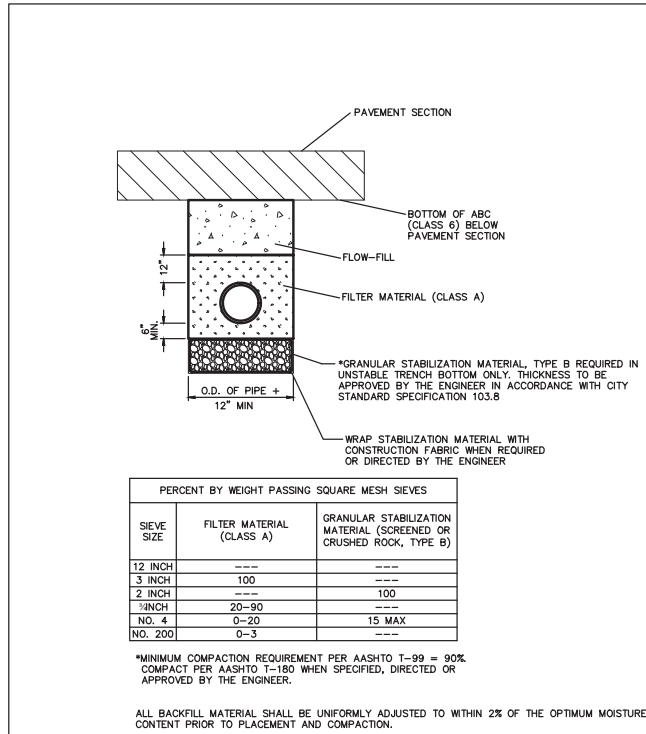
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	Horiz. Scale:	Vert. Scale: As Noted			Grand Junction City Hall 250 North 5th Street Grand Junction, CO 81501 970-244-1501	No Revisions:	Designer: B. LUSTER	Structure Numbers	23583
	Unit Information					KCC	Revised:	Detailer: C. WITTENMEIER	Numbers
		<small>           10710 BROADWAY SUITE 300            DENVER, COLORADO 80202            PHONE: 303.733.0300            FAX: 303.733.0118         </small>				Void:	Sheet Subset: WATERLINE	Subset Sheets: 15 of 38	Sheet Number



**GENERAL NOTES:**

1. All fittings to be wrapped with 8 mil polyethylene.
2. Pipe installed under conditions different from those normally encountered shall require thrust blocks designed for those particular conditions.
3. Thrust blocks on pipe larger than 12 inches diameter shall be designed for conditions existing at the installation site.
4. All thrust blocks to be 3000 p.s.i. concrete.
5. Mechanical restraints are to be installed in accordance with City Standards for Construction of Underground Utilities Section 104.3d.



PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES		
SIEVE SIZE	FILTER MATERIAL (CLASS A)	GRANULAR STABILIZATION MATERIAL (SCREENED OR CRUSHED ROCK, TYPE B)
12 INCH	---	---
3 INCH	100	---
2 INCH	---	100
3/4 INCH	20-90	---
NO. 4	0-20	15 MAX
NO. 200	0-3	---

\*MINIMUM COMPACTION REQUIREMENT PER AASHTO T-99 = 90%  
COMPACT PER AASHTO T-180 WHEN SPECIFIED, DIRECTED OR APPROVED BY THE ENGINEER.

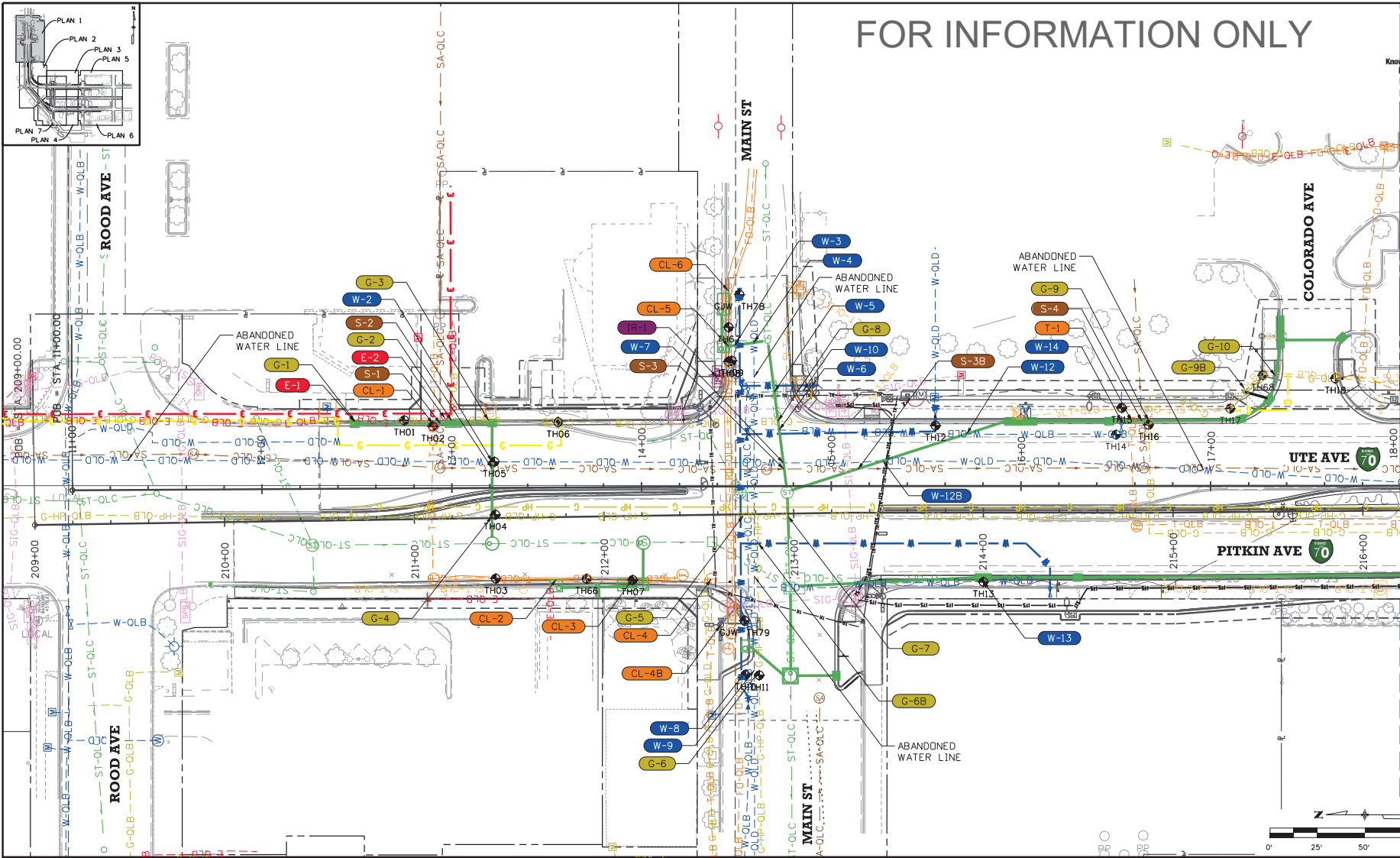
ALL BACKFILL MATERIAL SHALL BE UNIFORMLY ADJUSTED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT PRIOR TO PLACEMENT AND COMPACTION.

**TYPICAL TRENCH DETAIL FOR WATERLINE\*\***  
\*\*DETAIL MODIFIED FROM CITY OF GRAND JUNCTION, COLORADO, STANDARD DRAWING "TYPICAL TRENCH DETAIL"

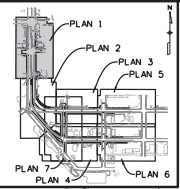
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	Unit Information				Void:	Sheet Subset: WATERLINE		Sheet Number
1670 BRIDGEMAN SUITE 300 DENVER, CO 80202 PHONE: 303.733.1100 FAX: 303.733.1118					KCC	Subset Sheets: 16 of 38		



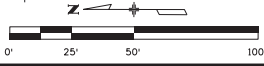
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FOR INFORMATION ONLY



MATCHLINE STA 18+00 I-70Z (UTE AVE)  
MATCHLINE STA 216+20 I-70B (PITKIN AVE)



All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/7/2023
File Name: 23583_UTL_PLN-CONFLICTS-1.dgn
Horiz. Scale: Vert. Scale: As Noted
Unit Information
<b>HDR</b> 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1520 FAX: 303-866-7139

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

606 South 9th Street  
Grand Junction, CO 81501  
Phone: 970-683-6351  
FAX: 970-683-6369

Region 3 KCC

As Constructed
No Revisions:
Revised:
Void:

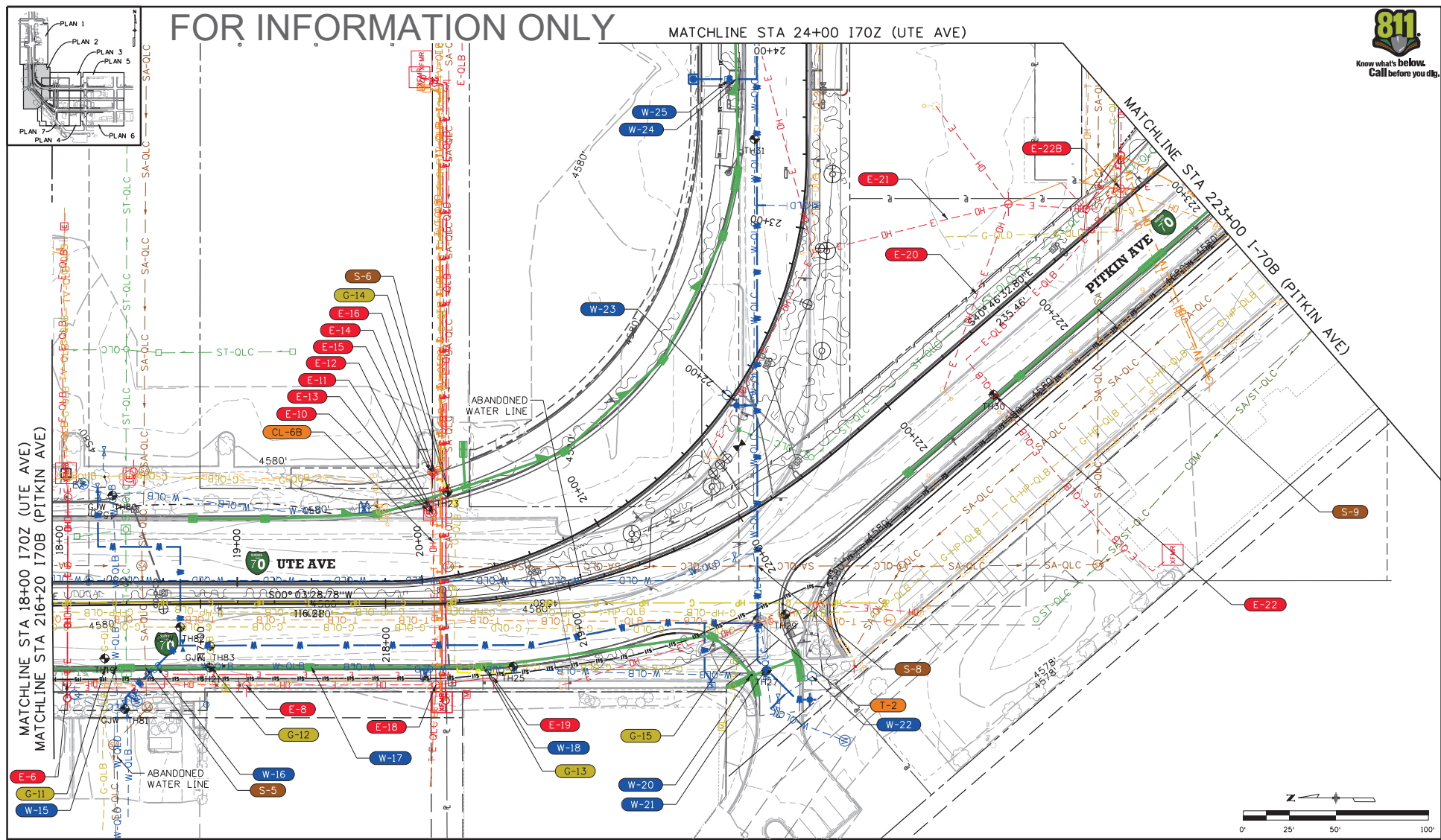
I-70B SOUTH OF ROOD EXISTING UTILITY CONFLICT PLAN ROOD AVE TO COLORADO AVE		
Designer: NLEE	Structure	
Detailer: BWILLIAMS	Numbers	
Sheet Subset: UTILITY	Subset Sheets: 17 of 38	

Project No./Code	NHPP 070A-037
	23583
Sheet Number	<b>158</b>



FOR INFORMATION ONLY

MATCHLINE STA 24+00 I70Z (UTE AVE)



MATCHLINE STA 18+00 I70Z (UTE AVE)  
MATCHLINE STA 216+20 I70B (PITKIN AVE)

MATCHLINE STA 223+00 I-70B (PITKIN AVE)

Print Date: 9/7/2023

File Name: 23583\_UTL\_PLN-CONFLICTS-1.dgn

Horiz. Scale: Vert. Scale: As Noted

Unit Information



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Revised:
Void:

I-70B SOUTH OF ROAD

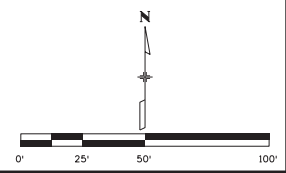
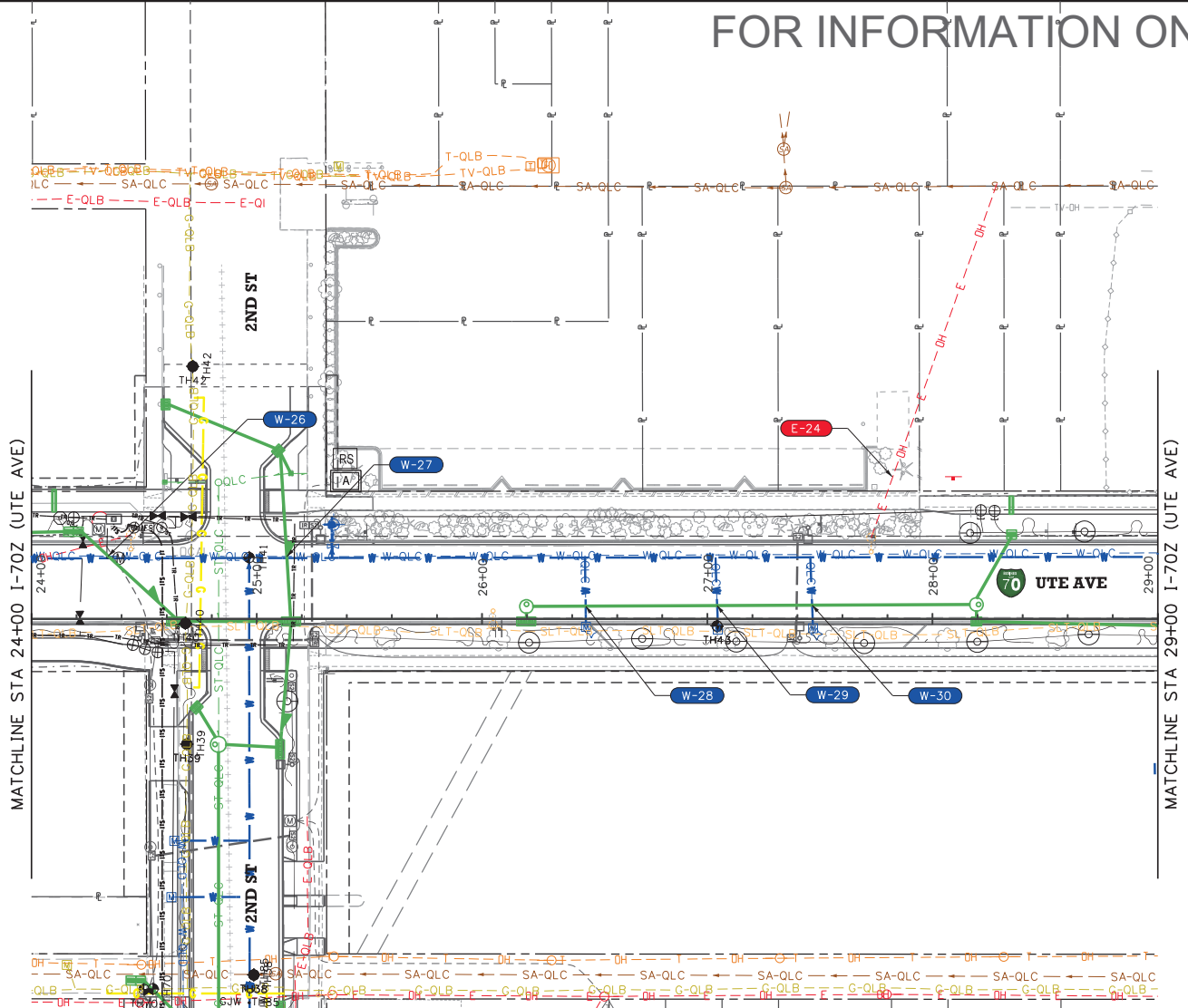
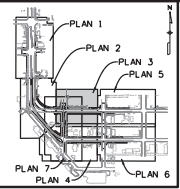
EXISTING UTILITY CONFLICT PLAN	
GRAND JUNCTION STATION	
Designer:	NLEE
Structure Numbers:	
Detailer:	BWILLIAMS
Sheet Subset:	UTILITY
Subset Sheets:	18 of 38

Project No./Code

NHPP 070A-037
23583
Sheet Number 159

MSCHWAB 7/25/21 AM part\yearhouse01\hdp\US\_Central\_01\Documents\Colorado\01\_B3\CDDT\_B3\CDDT\_B3\_I-70B\_Corod\_Junction\_South\_of\_Road\CDDT\_I-70B\_CJ\_STA\_0F\_000D\_T01V6.0\_CAD\_BIMV6.2\_WIP\23583\Utilities\Sheets\Conflict\_Plans - Road to

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/7/2023
File Name: 23583_UTL_PLN-CONFLICTS-1.dgn
Horiz. Scale: Vert. Scale: As Noted
Unit Information
<b>HDR</b> 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1520 FAX: 303-886-7139

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

606 South 9th Street  
Grand Junction, CO 81501  
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FAX: 970-683-6369

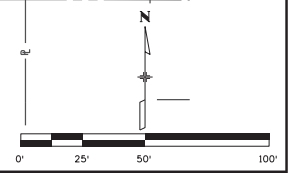
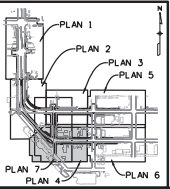
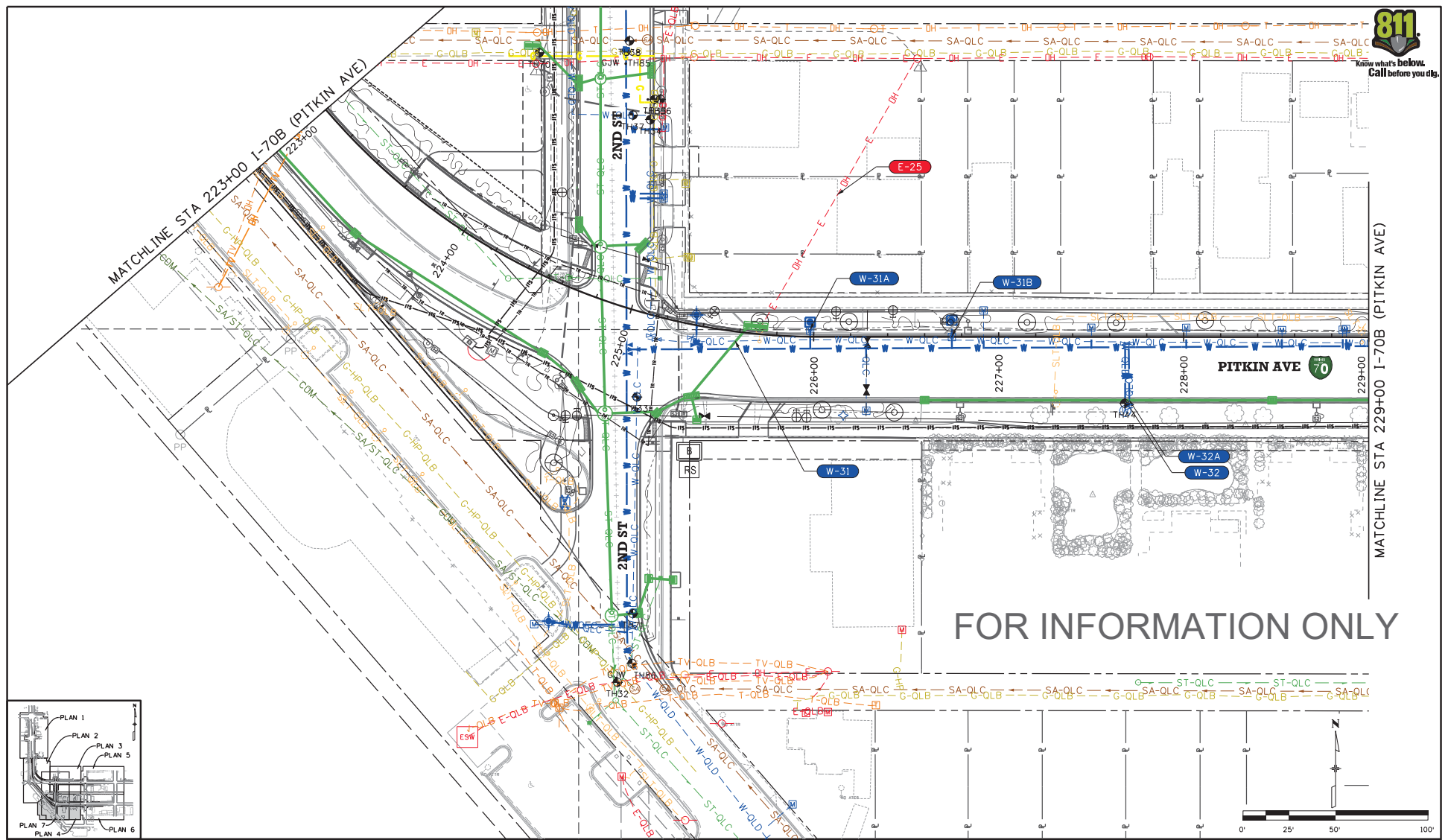
Region 3 KCC

As Constructed
No Revisions:
Revised:
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I-70B SOUTH OF ROAD EXISTING UTILITY CONFLICT PLAN I-70Z - 2ND ST	
Designer: NLEE	Structure Numbers
Detailer: BWILLIAMS	Numbers
Sheet Subset: UTILITY	Subset Sheets: 19 of 38

Project No./Code	NHPP 070A-037
Sheet Number	160

MSCHWAB 7/26/24 AM p:\p\shdraccon01\HR\_US\_Centrol\_01\Documents\ColoradoDOT\_R\A\CDOT\_R3\_I-70B\_Grad\_Junction\_South\_of\_Road\CDOT\_I-70B\_GI\_STH\_DF\_RODD\_T01\6.0\_CAD\_BIM\6.2\_WIP\23583\Utilities\Sheets\Utility Conflict Plans - Road I-



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Print Date: 9/7/2023	File Name: 23583_UTL_PLN-CONFLICTS-1.dgn
Horiz. Scale: Vert. Scale: As Noted	Unit Information
1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1200 FAX: 303-866-7139	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

606 South 9th Street  
 Grand Junction, CO 81501  
 Phone: 970-683-6351  
 FAX: 970-683-6369

Region 3 KCC

As Constructed
No Revisions:
Revised:
Void:

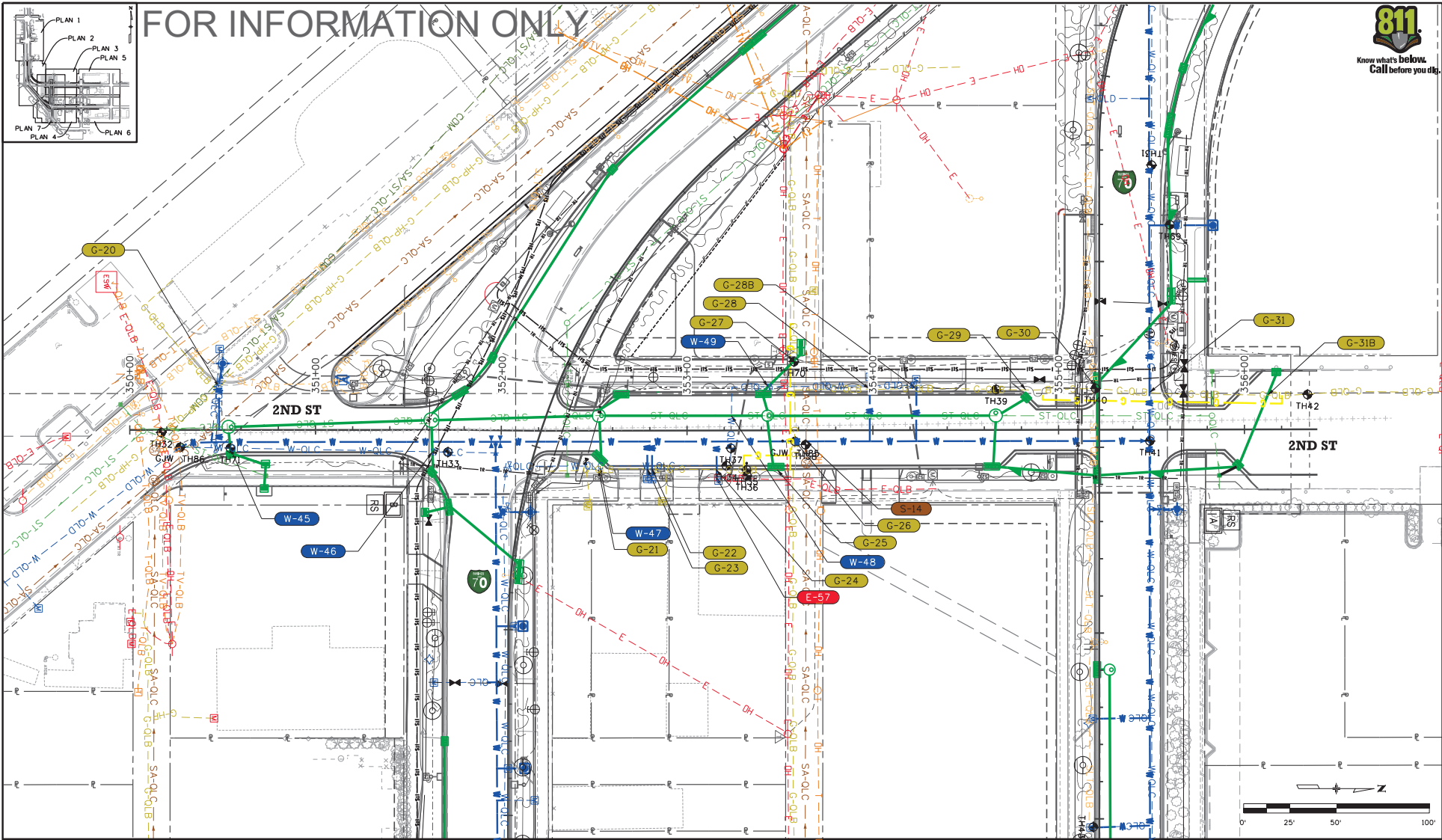
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Designer: NLEE	Structure Numbers
Detailer: BWILLIAMS	Numbers
Sheet Subset: UTILITY	Subset Sheets: 20 of 38

Project No./Code	NHPP 070A-037
	23583
Sheet Number	161

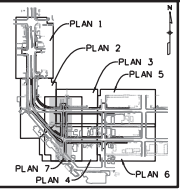




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All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/7/2023 File Name: 23583_UTL_PLN-CONFLICTS-5.dgn Horiz. Scale:            Vert. Scale: As Noted	<b>Sheet Revisions</b> Date:            Comments            Init.	Colorado Department of Transportation 606 South 9th Street Grand Junction, CO 81501 Phone: 970-683-6351 FAX: 970-683-6369	As Constructed No Revisions:	I-70B SOUTH OF ROAD EXISTING UTILITY CONFLICT PLAN 2ND ST	Project No./Code NHPP 070A-037
	Unit Information 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1520 FAX: 303-886-7139	Region 3            KCC		Revised:            Designer: NLEE            Structure Numbers Void:                Detailer: BWILLIAMS            Numbers Sheet Subset: UTILITY            Subset Sheets: 23 of 38		Sheet Number <b>164</b>

MSCHWAB 7/3/2023 AM 1:04:10 PM C:\Users\jrcor\Desktop\Colorado\2023\1770B\_Grand\_Junction\_South\_of\_Road\CDOT\_I-70B\_GI\_STH\_DF\_ROOD\_T01\6.0\_CAD\_BIM\6.2\_WIP\_23583\_Uilities\_Sheets\Coding\_UTILITY\_Conflict\_Matrix\_Sheet 1

UTILITY OWNER	ID #	I-70B - Utility Conflict Matrix																	
		Conflict Location			Utility Data							Conflict Data				Conflict Resolution			
		Alignment Name	Station	Distance Lt. / Rt.	Test Hole No.	Size	Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Detailed Conflict Description	Proposed Mitigation / Action	Est. Resolution Date	Current status
										Top	Bottom	Top	Bottom						
GAS	G-1	I-70Z (Ute)	12+31	35' LT	1A	2"	PLASTIC	89487.42	36000.38	4580.47'	3'	4577.47'	4577.30'			Inlet located on LP gas line (gas line parallel to curb/gutter)	Relocation by Xcel		
	G-2	I-70Z (Ute)	13+00	36' LT	1A	2"	PLASTIC	89487.42	36000.38	4580.47'	3'	4577.47'	4577.30'			Inlet located on LP gas line (gas line parallel to curb/gutter)	Relocation by Xcel		
	G-3	I-70Z (Ute)	13+21	36' LT	6	2"	PLASTIC	89486.34	35919.35	4580.70'	3.33'	4577.37'	4577.20'			Inlet located on LP gas line (gas line parallel to curb/gutter)	Relocation by Xcel		
	G-4	I-70B (Pitkin)	211+41	1' LT	4	12"	STEEL	89437.62	35952.42	4579.98'	2.50'	4577.48'	4575.48'			Proposed storm crosses existing IP gas line	Relocation by Xcel		
	G-5	I-70B (Pitkin)	212+73	1' RT												Proposed storm crosses existing LP gas line	Relocation by Xcel		
	G-6	I-70B (Pitkin)	212+80	83' RT	11	10"	STEEL	89352.80	35813.47	4579.76	2.92'	4576.84'	4575.01'			Proposed storm crosses existing IP gas line	Protect in Place		
	G-6B	I-70B (Pitkin)	212+81	16' RT												Proposed water service crosses IP gas line	Protect in Place		
	G-7	I-70B (Pitkin)	212+97	1' RT												Proposed storm crosses existing LP gas line	Relocation by Xcel		
	G-8	I-70Z (Ute)	14+72	34' LT												Proposed storm crosses existing LP gas line	Protect in Place		
	G-9	I-70Z (Ute)	16+67	33' LT	16	2"	STEEL	89484.51	35608.07	4581.48	1.92'	4579.56'	4579.40'			Proposed storm crosses existing LP gas line	Protect in Place		
	G-9B	I-70Z (Ute)	17+18	52" LT	68	2"	PLASTIC	89511.82	35541.45	4580.72'	2.75'	4576.97'	4577.80'			Proposed storm inlet on top of existing LP gas line	Relocation by Xcel		
	G-10	I-70Z (Ute)	17+34	58' LT	68	2"	PLASTIC	89511.82	35541.45	4580.72'	2.75'	4576.97'	4577.80'			Proposed storm crosses existing LP gas line	Relocation by Xcel		
	G-11	I-70B (Pitkin)	216+48	27' RT	19	2"	STEEL	89410.68	35447.06	4580.27	2.50'	4577.77'	4577.60'			Proposed storm crosses existing LP gas line	Protect in Place		
	G-12	I-70B (Pitkin)	217+05	34' RT	21B	2"	STEEL	89405.65	35390.33	4580.10'	3.33'	4576.77'	4576.6'			Proposed storm crosses existing LP gas line	Protect in Place		
	G-13	I-70B (Pitkin)	218+50	36' RT	25	2"	PLASTIC	89405.91	35226.35	4579.62'	4.58'	4575.04'	4574.87'			Proposed storm inlet located on existing LP gas line	Relocation by Xcel		
G-14	I-70Z (Ute)	20+23	44' LT	23	2"	PLASTIC	89500.38	35261.76	4581.48'	2.67'	4578.81'	4578.65'			Proposed storm and lighting crosses existing LP gas line	Relocation by Xcel			
G-15	I-70B (Pitkin)	219+84	50' RT	29	12"	STEEL	89434.11	35079.24	4579.22'	3.33'	4575.89'	4574.89'			Proposed water main crosses existing IP gas line	Relocation by Xcel			

NOTE: 1. NUMBERING OF CONFLICTS IS NONCONTINUOUS.

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	Date:	Comments	Init.															
 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1220 FAX: 303-886-7139	Region 3 	KCC	Structure Numbers Subset Sheets: 24 of 38															





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UTILITY OWNER	ID #	I-70B - Utility Conflict Matrix																	
		Conflict Location			Utility Data								Conflict Data				Conflict Resolution		
		Alignment Name	Station	Distance Lt. / Rt.	Test Hole No.	Size	Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Detailed Conflict Description	Proposed Mitigation / Action	Est. Resolution Date	Current status
										Top	Bottom	Top	Bottom						
GAS	G-34	I-70Z (Ute)	29+58	92' LT											Inlet located less than two feet from existing LP gas line. Gas line unable to be located during potholing.	Relocation by Xcel			
	G-35	I-70Z (Ute)	29+63	163' RT	55	2"	STEEL	90305.50	34904.17	4578.11'	3.58'	4574.53'	4574.36'		Proposed storm crosses existing LP gas line	Relocation by Xcel			
TELEPHONE AND FIBER LUMEN (CENTURYLINK)	CL-1	I-70Z (Ute)	12+90	34' LT	2	12"W x 16"H	CONCRETE	89484.21	35985.36	4580.43'	2.67'	4577.76'	4575.43'		Proposed storm crosses existing concrete encased telephone line	Protect in place			
	CL-2	I-70B (Pitkin)	211+75	33' RT	66	10"	CONCRETE	89403.75	35904.22	4579.84'	1.67'	4578.17'	4577.34'		Proposed storm inlet adjacent to existing concrete encased telephone duct.	Protect in Place			
	CL-3	I-70B (Pitkin)	212+15	33' RT	7	24" x 4"H	CONCRETE	89403.08	35880.10	4580.86'	1.75'	4579.11'	4578.78'		Proposed storm inlet adjacent to existing concrete encased telephone duct.	Protect in Place			
	CL-4	I-70B (Pitkin)	212+56	33' RT											Fiber manhole in conflict with proposed gutter.	Protect in Place			
	CL-4B	I-70B (Pitkin)	212+61	58' RT											Proposed signal pole adjacent to fiber vault.	Contractor to vacuum excavate signal caisson.			
	CL-5	I-70Z (Ute)	14+46	65' LT	67	12" DUCT	CONCRETE	89535.99	35829.58	4579.93'	3.17'	4576.76'	4575.76'		Proposed storm inlet adjacent to existing concrete encased telephone duct.	Protect in Place			
	CL-6	I-70Z (Ute)	14+46	104' LT	67	12" DUCT	CONCRETE	89535.99	35829.58	4579.93'	3.17'	4576.76'	4575.76'		Proposed storm inlet adjacent to existing concrete encased telephone duct.	Protect in Place			
	CL-6B	I-70Z (Ute)	20+08	20' LT											OH telephone line attached to Xcel poles to be removed.	Relocation by Lumen			
	CL-7	I-70Z (Ute)	29+90	4' RT											Proposed storm crosses existing telephone line	Relocation by Lumen during CDOT construction			
	CL-8	I-70Z (Ute)	29+93	29' LT	63	2"	PLASTIC	90337.55	35125.83	4581.48'	3.42'	4578.06'	4577.90'		Proposed water line crosses existing telephone line	Protect in Place			
	CL-9	I-70Z (Ute)	29+95	97' LT	63	2"	PLASTIC	90337.55	35125.83	4581.48'	3.42'	4578.06'	4577.90'		Proposed inlet conflicts with existing telephone line	Relocation by Lumen during CDOT construction			
	CL-10	I-70B (Pitkin)	229+90	44' LT	54A	2"	PLASTIC	90330.40	34806.05	4578.67'	3.17'	4575.50'	4575.34'		Proposed inlet conflicts with existing telephone line	Relocation by Lumen during CDOT construction			
CL-11	I-70B (Pitkin)	229+90	4' RT											Proposed water line crosses existing telephone line	Protect in Place				
CL-12	I-70B (Pitkin)	229+91	34' RT	50B	3"	STEEL	90329.67	34712.93	4578.67'	4.58'	4574.09'	4573.84'		Proposed storm crosses existing telephone line	Relocation by Lumen during CDOT construction				

NOTE: 1. NUMBERING OF CONFLICTS IS NONCONTINUOUS.

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	Date:	Comments	Init.																		
1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1220 FAX: 303-886-7139	Region 3 	KCC	Structure Numbers 26 of 38																		
Unit Information		Color		Scale		Date															
Unit Information		Color		Scale		Date															

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UTILITY OWNER	ID #	I-70B - Utility Conflict Matrix																	
		Conflict Location			Utility Data								Conflict Data				Conflict Resolution		
		Alignment Name	Station	Distance Lt. / Rt.	Test Hole No.	Size	Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Detailed Conflict Description	Proposed Mitigation / Action	Est. Resolution Date	Current status
										Top	Bottom	Top	Bottom						
TELEPHONE AND FIBER LUMEN (CENTURYLINK)	E-13	I-70B (Pitkin)	229+96	109' RT	48	2"	PLASTIC	90330.42	34689.51	4571.67'	3.58'	4575.09'	4574.92'			Proposed inlet within 2 ft of existing telephone line	Relocation by Lumen during CDOT construction		
	T-1	I-70Z (Ute)	16+70	33' LT												Proposed storm crosses existing unidentified telephone line	Protect in Place		
UNKNOWN TELEPHONE	T-2	I-70B (Pitkin)	219+83	54' RT												Proposed water crosses existing unidentified telephone line	Protect in Place		
	E-1	I-70Z (Ute)	12+49	35' LT												Inlet located on elec line (elec line parallel to curb/gutter)	Relocation by Xcel		
ELECTRIC	E-2	I-70Z (Ute)	12+96	36' LT												Inlet located adjacent to elec line (elec line parallel to curb/gutter)	Relocation by Xcel		
	E-6	I-70B (Pitkin)	216+28	42' RT												Utility Pole in conflict with proposed sidewalk	Relocation by Xcel		
	E-8	I-70B (Pitkin)	217+25	44' RT												Utility Pole in conflict with proposed sidewalk	Remove by Xcel		
	E-10	I-70Z (Ute)	20+08	37' LT												Ground Test in conflict with proposed pavement	Remove by Xcel		
	E-11	I-70Z (Ute)	20+08	38' LT												Ground Test in conflict with proposed pavement	Remove by Xcel		
	E-12	I-70Z (Ute)	20+09	36' LT												Electric Vault in conflict proposed pavement	Remove by Xcel		
	E-13	I-70Z (Ute)	20+11	35" LT												Utility Pole in conflict with proposed pavement	Remove by Xcel		
	E-14	I-70Z (Ute)	20+14	57' LT												Utility Pole in conflict with proposed sidewalk	Remove by Xcel		
	E-15	I-70Z (Ute)	20+15	56' LT												Ground Test in conflict with proposed pavement	Remove by Xcel		
	E-16	I-70Z (Ute)	20+16	57' LT												Ground Test in conflict with proposed pavement	Remove by Xcel		
	E-18	I-70B (Pitkin)	218+26	44' RT												Utility Pole in conflict with proposed sidewalk	Relocation by Xcel		
	E-19	I-70B (Pitkin)	218+54	42' RT												Utility Pole in conflict with proposed sidewalk	Remove by Xcel		

NOTE: 1. NUMBERING OF CONFLICTS IS NONCONTINUOUS.

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	 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1520 FAX: 303-886-7139	Region 3	KCC	Designer: NLEE Detailer: BWILLIAMS Sheet Subset: UTILITY	Structure Numbers Subset Sheets: 27 of 38	Sheet Number <b>168</b>

MSCHWAB 7/30/18 AM pm1\pawhrcs01\h0R\_US\_Central\_01\Documents\Colorado\DOT\_B3\_I-70B\_Grand\_Junction\_South\_of\_Road\DOT\_I-70B\_G1\_S11\_DF\_800D\_101\6\_CAD\_BIM\6.2\_WPB\_23583\Utilities\Sheets\Existing\Utility\_Conflict\_Matrix\_Sheet 1

UTILITY OWNER	ID #	I-70B - Utility Conflict Matrix																	
		Conflict Location			Utility Data								Conflict Data				Conflict Resolution		
		Alignment Name	Station	Distance Lt. / Rt.	Test Hole No.	Size	Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Detailed Conflict Description	Proposed Mitigation / Action	Est. Resolution Date	Current status
										Top	Bottom	Top	Bottom						
ELECTRIC	E-20	I-70B (Pitkin)	221+83	49' LT												OH electric service to light pole to be removed by Xcel	Remove by Xcel		
	E-21	I-70B (Pitkin)	221+78	15' LT												OH electric service to light pole to be removed by Xcel	Remove by Xcel		
	E-22	I-70B (Pitkin)	221+48	38' RT	30	6"	PLASTIC	89552.64	34966.60	4578.77'	6.00'	4572.77'	4572.27'			Proposed storm crosses existing electric	Protect in place		
	E-22B	I-70B (Pitkin)	222+61	40' LT												Utility pole to be relocated further from roadway	Relocation by Xcel		
	E-24	I-70Z (Ute)	227+28	50' LI												OH electric service to light pole to be removed by Xcel	Remove by Xcel		
	E-25	I-70B (Pitkin)	225+70	3' LT												OH electric service to light pole to be removed by Xcel	Remove by Xcel		
	E-26	I-70Z (Ute)	29+48	92' LT												Inlet located on elec line (elec line parallel to curb/gutter)	Relocation by Xcel		
	E-27	I-70Z (Ute)	29+55	92' LT												Proposed storm crosses existing electrical line	Relocation by Xcel		
	E-28	I-70Z (Ute)	29+83	95' LT												Proposed storm crosses existing electrical line	Relocation by Xcel		
	E-29	I-70Z (Ute)	29+87	95' LT												Proposed storm crosses existing electrical line	Relocation by Xcel		
	E-30	I-70Z (Ute)	29+50	28' LT	58	6"	PVC	90287.08	35124.55	4581.48'	3.83'	4577.65'	4577.15'			Proposed water crosses existing electrical line	Relocation by Xcel		
	E-31	I-70Z (Ute)	29+55	28' LT	59	6"	PVC	90292.58	35124.83	4581.48'	3.83'	4577.65'	4577.15'			Proposed water crosses existing electrical line	Relocation by Xcel		
	E-32	I-70Z (Ute)	29+84	29' LT	61	6"	PVC	90325.85	35125.86	4581.48'	4.00'	4577.48'	4575.98'			Proposed water crosses existing electrical line	Relocation by Xcel		
	E-33	I-70Z (Ute)	29+89	29' LT	62	6"	PVC	90330.37	35125.63	4581.48'	4.00'	4577.48'	4575.98'			Proposed water crosses existing electrical line	Relocation by Xcel		
	E-34	I-70Z (Ute)	29+53	3' RT	76	6"	PLASTIC	90295.35	35062.50	4579.77'	4.17'	4575.60'	4575.10'			Proposed storm crosses existing electrical line	Relocation by Xcel		
E-35	I-70Z (Ute)	29+58	3' RT	76	6"	PLASTIC	90295.35	35062.50	4579.77'	4.17'	4575.60'	4575.10'			Proposed storm crosses existing electrical line	Relocation by Xcel			

NOTE: 1. NUMBERING OF CONFLICTS IS NONCONTINUOUS.

## FOR INFORMATION ONLY

All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/7/2023		Sheet Revisions			Colorado Department of Transportation 606 South 9th Street Grand Junction, CO 81501 Phone: 970-683-6351 FAX: 970-683-6369	As Constructed	I-70B SOUTH OF ROAD EXISTING UTILITY CONFLICT MATRIX SHEET 5			Project No./Code
	File Name: 23583_UTL_PLN-MATRIX-1.dgn		Date:	Comments	Init.		No Revisions:				NHPP 070A-037
	Horiz. Scale: Vert. Scale: As Noted				Revised:	Designer: NLEE	Structure Numbers			23583	
	Unit Information				Void:	Detailer: BWILLIAMS		Sheet Subset: UTILITY	Subset Sheets: 28 of 38	Sheet Number <b>169</b>	



Region 3

KCC

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UTILITY OWNER	ID #	I-70B - Utility Conflict Matrix																	
		Conflict Location			Utility Data							Conflict Data				Conflict Resolution			
		Alignment Name	Station	Distance Lt. / Rt.	Test Hole No.	Size	Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Detailed Conflict Description	Proposed Mitigation / Action	Est. Resolution Date	Current status
									Top	Bottom	Top	Bottom							
ELECTRIC	E-36	I-70Z (Ute)	29+82	4' RT											Proposed storm crosses existing electrical line	Relocation by Xcel			
	E-37	I-70Z (Ute)	29+88	4' RT	77	4"	PLASTIC	90330.55	35062.61	4579.71'	4.58'	4575.13'	4574.79'		Proposed storm crosses existing electrical line	Relocation by Xcel			
	E-38	I-70Z (Ute)	29+61	140' RT											Proposed storm is adjacent to existing electrical line.	Relocation by Xcel			
	E-38B	I-70Z (Ute)	30+78	35' LT											OH electric service to light pole to be removed by Xcel	Remove by Xcel			
	E-38C	I-70Z (Ute)	32+47	3' RT											OH electric service to light pole to be removed by Xcel	Remove by Xcel			
	E-39	I-70B (Pitkin)	229+58	43' LT	52	2x 6"	PVC	90298.89	34804.59	4578.50'	3.58'	4574.92'	4574.33'		Proposed storm inlet on top of electric line.	Relocation by Xcel			
	E-40	I-70B (Pitkin)	229+64	43' LT	52	2x 6"	PVC	90298.89	34804.59	4578.50'	3.58'	4574.92'	4574.33'		Proposed storm manhole over existing electric line.	Relocation by Xcel			
	E-41	I-70B (Pitkin)	229+84	43' LT											Proposed storm crosses existing concrete encased electrical line.	Relocation by Xcel			
	E-42	I-70B (Pitkin)	229+89	43' LT	54B	16"Hx32"W	CONCRETE	90330.40	34806.05	4578.66'	2.67'	4575.99'	4574.66'		Proposed storm inlet on top of concrete encased electric line.	Relocation by Xcel			
	E-44	I-70B (Pitkin)	229+58	6' RT	74	6"	PLASTIC	90298.53	34758.60	4578.51'	3.00'	4575.51'	4575.01'		Proposed water crosses existing electrical line	Relocation by Xcel			
	E-45	I-70B (Pitkin)	229+63	6' RT											Proposed water crosses existing electrical line	Relocation by Xcel			
	E-46	I-70B (Pitkin)	229+89	6' RT											Proposed water crosses existing electrical line.	Relocation by Xcel			
	E-47	I-70B (Pitkin)	229+84	6' RT											Proposed water crosses existing electrical line.	Relocation by Xcel			
	E-48	I-70B (Pitkin)	229+58	34' RT	45	6"	PVC	90298.88	34689.58	4578.51'	3.83'	4574.68'	4574.18'		Proposed storm crosses existing electrical line	Relocation by Xcel			
	E-49	I-70B (Pitkin)	229+62	34' RT	46	6"	PVC	90302.61	34689.30	4578.53'	4.17'	4574.36'	4573.86'		Proposed storm crosses existing electrical line	Relocation by Xcel			
E-50	I-70B (Pitkin)	229+85	34' RT	50A	2x 6"	PVC	90329.67	34712.93	4578.66'	3.58'	4575.08'	4574.58'		Proposed storm crosses existing concrete encased electrical line	Relocation by Xcel				

NOTE: 1. NUMBERING OF CONFLICTS IS NONCONTINUOUS.

FOR INFORMATION ONLY



All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/7/2023	Sheet Revisions		Colorado Department of Transportation  606 South 9th Street Grand Junction, CO 81501 Phone: 970-683-6351 FAX: 970-683-6369	As Constructed	I-70B SOUTH OF ROAD EXISTING UTILITY CONFLICT MATRIX SHEET 6		Project No./Code	
	File Name: 23583_UTL_PLN-MATRIX-1.dgn	Date:	Comments		Init.	No Revisions:			NHPP 070A-037
	Horiz. Scale: Vert. Scale: As Noted					Revised:	Designer: NLEE	Structure Numbers	23583
	Unit Information					Void:	Detailer: BWILLIAMS		Sheet Number 170
 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1520 FAX: 303-886-7139	Region 3		KCC	Sheet Subset: UTILITY	Subset Sheets: 29 of 38				

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UTILITY OWNER	ID #	I-70B - Utility Conflict Matrix																	
		Conflict Location			Utility Data							Conflict Data				Conflict Resolution			
		Alignment Name	Station	Distance Lt. / Rt.	Test Hole No.	Size	Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Detailed Conflict Description	Proposed Mitigation / Action	Est. Resolution Date	Current status
Top	Bottom	Top	Bottom																
ELECTRIC	E-51	I-70B (Pitkin)	229+90	34' RT	50A	2x 6"	PVC	90329.67	34712.93	4578.66'	3.58'	4575.08'	4574.58'			Proposed storm crosses existing electrical line	Relocation by Xcel		
	E-52	I-70B (Pitkin)	229+58	100' RT	73	6"	PLASTIC	90299.71	34647.39	4578.51'	3.58'	4574.93'	4574.43'			Inlet located on elec line (elec line parallel to curb/gutter)	Relocation by Xcel		
	E-53	I-70B (Pitkin)	229+62	106' RT												Proposed storm crosses existing electrical line	Relocation by Xcel		
	E-54	I-70B (Pitkin)	229+85	109' RT	72	10"	CONCRETE	90330.31	34637.35	4578.66'	2.92'	4575.74'	4574.91'			Proposed storm crosses existing concrete encased electrical line.	Relocation by Xcel		
	E-55	I-70B (Pitkin)	229+90	109' RT	72	10"	CONCRETE	90330.31	34637.35	4578.66'	2.92'	4575.74'	4574.91'			Inlet located on concrete encased electrical line.	Relocation by Xcel		
	E-56	I-70B (Pitkin)	223+11	7' LT												OH electric service to light pole to be removed by Xcel	Remove by Xcel		
	E-57	2nd St	353+16	25' RT												Proposed water service crosses existing electric line	Protect in place		
WATER	W-2	I-70Z (Ute)	13+20	14' LT	5	10"	STEEL	89465.50	35952.92	4580.56'	4.92'	4575.64'	4574.81'			Proposed storm in conflict with existing abandoned water line	Waterline is out of service. Contractor can cut and cap as necessary.		
	W-3	I-70Z (Ute)	14+49	74' LT	9	12"	PVC	89518.51	35827.72	4581.07'	4.00'	4577.07'	4575.07'			Proposed storm crosses existing water line	Waterline relocation by Contractor as shown on Waterline Plans		
	W-4	I-70Z (Ute)	14+59	76' LT												Proposed storm crosses existing water line	Waterline is out of service. Contractor can cut and cap as necessary.		
	W-5	I-70Z (Ute)	14+70	50' LT												Proposed storm crosses existing hydrant service	Waterline relocation by Contractor as shown on Waterline Plans		
	W-6	I-70Z (Ute)	14+72	30' LT												Proposed storm crosses existing water service	Waterline relocation by Contractor as shown on Waterline Plans		
	W-7	I-70Z (Ute)	14+75	12' LT												Proposed storm crosses existing water line	Waterline is out of service. Contractor can cut and cap as necessary.		
	W-8	I-70B (Pitkin)	212+74	82' RT	10	12"	PVC	89353.05	35820.79	4579.75'	4.17'	4575.58'	4574.58'			Proposed storm inlet in conflict with existing water line	Waterline relocation by Contractor as shown on Waterline Plans		
	W-9	I-70B (Pitkin)	212+78	82' RT												Proposed storm inlet in conflict with existing water line	Waterline is out of service. Contractor can cut and cap as necessary.		
	W-10	I-70Z (Ute)	14+85	51' LT												Proposed curb ramp conflicts with existing fire hydrant	Reset hydrant as shown on Waterline Plans		

NOTE: 1. NUMBERING OF CONFLICTS IS NONCONTINUOUS.

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All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/7/2023	Sheet Revisions		 Colorado Department of Transportation 606 South 9th Street Grand Junction, CO 81501 Phone: 970-683-6351 FAX: 970-683-6369	As Constructed	I-70B SOUTH OF ROAD EXISTING UTILITY CONFLICT MATRIX SHEET 7			Project No./Code	
	File Name: 23583_UTL_PLN-MATRIX-1.dgn	Date:	Comments		Init.	No Revisions:	NLEE Structure Numbers			NHPP 070A-037
	Horiz. Scale: Vert. Scale: As Noted					Revised:	BWilliams			23583
	Unit Information					Void:	Sheet Subset: UTILITY Subset Sheets: 30 of 38			Sheet Number 171
 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1220 FAX: 303-886-7139	Region 3		KCC							

MSCHWAB 7/3/2017 AM part1\pawharvace01\HQR\_US\_Central\_01\Documents\Colorado01\_RA\CDDT\_RA\_I-70B\_Grand\_Junction\_South\_of\_Road\CDDT\_I-70B\_GJ\_STH\_OF\_ROOD\_ID1660\_CAD\_BNA6.2\_WPA\_23583\Utilities\Sheets\Casting Utility Conflict Matrix Sheet 1

UTILITY OWNER	ID #	I-70B - Utility Conflict Matrix																	
		Conflict Location			Utility Data								Conflict Data				Conflict Resolution		
		Alignment Name	Station	Distance Lt. / Rt.	Test Hole No.	Size	Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Detailed Conflict Description	Proposed Mitigation / Action	Est. Resolution Date	Current status
									Top	Bottom	Top	Bottom							
WATER	W-12	I-70Z (Ute)	15+71	28' LT												Proposed storm crosses existing water service	Waterline to be taken out-of-service by Contractor as shown on Waterline Plans		
	W-12B	I-70Z (Ute)	15+27	13' LT												Proposed storm crosses abandoned water line	Waterline is out of service. Contractor can cut and cap as necessary.		
	W-13	I-70B (Pitkin)	213+99	37' RT	13A	2"	COPPER	89401.85	35695.23	4580.11'	4.08'	4576.03'	4575.86'			Proposed storm inlet in conflict with existing water line	Waterline relocation by Contractor as shown on Waterline Plans		
	W-14	I-70Z (Ute)	16+53	34' LT	15	10"	STEEL	89493.47	35622.23	4581.48'	3.83'	4577.65'	4575.81'			Proposed storm crosses below existing water service	Waterline to be taken out-of-service by Contractor as shown on Waterline Plans		
	W-15	I-70B (Pitkin)	216+54	27' RT												Proposed storm crosses below existing water line. Flowfill encountered during test boring.	Waterline relocation by Contractor as shown on Waterline Plans		
	W-16	I-70B (Pitkin)	216+76	34' RT	21A	10"	PVC	89405.65	35390.33	4580.10'	4.83'	4575.27'	4574.43'			Proposed storm crosses existing water line	Waterline relocation by Contractor as shown on Waterline Plans		
	W-17	I-70B (Pitkin)	217+59	34' RT												Inlet placed on existing waterline (waterline parallel to curb and gutter)	Waterline relocation by Contractor as shown on Waterline Plans		
	W-18	I-70B (Pitkin)	218+50	37' RT												Inlet placed on existing waterline (waterline parallel to curb and gutter)	Waterline relocation by Contractor as shown on Waterline Plans		
	W-20	I-70B (Pitkin)	219+69	78' RT												Proposed storm crosses below existing water line.	Waterline relocation by Contractor as shown on Waterline Plans		
	W-21	I-70B (Pitkin)	219+76	80' RT	27	10"	PLASTIC	89403.67	35089.44	4579.28'	4.92'	4574.36	4573.53'			Proposed storm crosses below existing water line.	Waterline relocation by Contractor as shown on Waterline Plans		
	W-22	I-70B (Pitkin)	219+93	93' RT												Proposed curb ramp conflicts with existing fire hydrant	Reset hydrant as shown on Waterline Plans		
	W-23	I-70Z (Ute)	22+00	3' LT												Proposed roadway realignment conflicts with existing fire hydrant	Reset hydrant as shown on Waterline Plans		
	W-24	I-70Z (Ute)	23+81	38' LT	31	10"	PLASTIC	89690.97	35095.61	4581.48'	4.50'	4576.98'	4575.98'			Proposed storm crosses existing water service	Waterline relocation by Contractor as shown on Waterline Plans		
	W-25	I-70Z (Ute)	23+80	42' LT												Proposed curb ramp conflicts with existing water meter pit	Reset Water Meter by Contractor as shown in on Waterline Plans		
	W-26	I-70Z (Ute)	24+21	28' LT												Proposed storm crosses existing water line	Waterline relocation by Contractor as shown on Waterline Plans		
	W-27	I-70Z (Ute)	25+13	28' LT												Proposed storm crosses existing water line	Waterline relocation by Contractor as shown on Waterline Plans		

NOTE: 1. NUMBERING OF CONFLICTS IS NONCONTINUOUS.

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All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/7/2023 File Name: 23583_UTL_PLN-MATRIX-1.dgn Horiz. Scale:                      Vert. Scale: As Noted	Sheet Revisions Date:                      Comments                      Init.	Colorado Department of Transportation  606 South 9th Street Grand Junction, CO 81501 Phone: 970-683-6351 FAX: 970-683-6369	As Constructed No Revisions: Revised: Void:	I-70B SOUTH OF ROAD EXISTING UTILITY CONFLICT MATRIX SHEET 8	Project No./Code NHPP 070A-037 23583
	 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1520 FAX: 303-886-7139	Region 3	KCC	Designer: NLEE Detailer: BWILLIAMS Sheet Subset: UTILITY	Structure Numbers Subset Sheets: 31 of 38	Sheet Number <b>172</b>

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UTILITY OWNER	ID #	I-70B - Utility Conflict Matrix																	
		Conflict Location			Utility Data								Conflict Data				Conflict Resolution		
		Alignment Name	Station	Distance Lt. / Rt.	Test Hole No.	Size	Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Detailed Conflict Description	Proposed Mitigation / Action	Est. Resolution Date	Current status
												Top	Bottom	Top	Bottom				
WATER	W-28	I-70Z (Ute)	26+46	5' LT											Proposed storm crosses existing water service	Waterline relocation by Contractor as shown on Waterline Plans			
	W-29	I-70Z (Ute)	27+04	6' LT	43	1"	COPPER	90047.16	35063.84	4581.48'	3.17'	4578.31'	4578.23'		Proposed storm crosses existing water service	Waterline relocation by Contractor as shown on Waterline Plans			
	W-30	I-70Z (Ute)	27+47	6' LT											Proposed storm crosses existing water service	Waterline relocation by Contractor as shown on Waterline Plans			
	W-31	I-70B (Pitkin)	225+55	6' RT											Proposed storm crosses existing water line	Waterline relocation by Contractor as shown on Waterline Plans			
	W-31A	I-70B (Pitkin)	225+98	4' LI											Proposed curb conflicts with existing water meter pit	Reset Water Meter by Contractor as shown on Waterline Plans			
	W-31B	I-70B (Pitkin)	226+75	0" RT											Proposed curb conflicts with existing water meter pit	Reset Water Meter by Contractor as shown on Waterline Plans			
	W-32	I-70B (Pitkin)	227+68	34' RT	44	4"	PLASTIC	90108.65	34712.79	4577.82'	5.17'	4572.65'	4572.32'		Proposed storm crosses existing water service	Protect in place			
	W-32A	I-70B (Pitkin)	227+68	34' RT											Proposed storm crosses existing water service	Protect in place			
	W-33	I-70Z (Ute)	29+63	30' LT	57	8"	STEEL	90308.40	35097.21	4581.48'	4.58'	4576.90'	4575.23'		Proposed storm conflicts with existing water line	Waterline relocation by Contractor as shown on Waterline Plans			
	W-34	I-70Z (Ute)	29+80	4' RT	56	8"	PLASTIC	90322.66	35063.29	4581.48'	3.92'	4577.56'	4575.90'		Proposed storm conflicts with existing water line	Waterline is out of service. Contractor can cut and cap as necessary.			
	W-35	I-70Z (Ute)	30+44	30' LT											Proposed storm conflicts with existing water line	Waterline relocation by Contractor as shown on Waterline Plans			
	W-36	I-70Z (Ute)	30+86	1' RT	64	1"	STEEL	90429.05	35064.03	4579.44'	3.75'	4575.69'	4575.61'		Proposed storm conflicts with existing water service	Waterline relocation by Contractor as shown on Waterline Plans			
	W-37	I-70Z (Ute)	31+20	1' RT											Proposed storm conflicts with existing water service	Waterline relocation by Contractor as shown on Waterline Plans			
	W-38	I-70B (Pitkin)	229+82	44' LT	53	8"	PLASTIC	90324.65	34806.00	4578.63'	3.75'	4574.88'	4574.21'		Proposed storm conflicts with existing water line	Waterline relocation by Contractor as shown on Waterline Plans			
	W-39	I-70B (Pitkin)	229+65	3' RT	51	8"	PLASTIC	90305.55	34744.44	4578.54'	3.83'	4574.71'	4574.04'		Proposed storm conflicts with existing water line	Waterline relocation by Contractor as shown on Waterline Plans			
	W-40	I-70B (Pitkin)	229+35	34' RT	49	6"	PVC	90274.84	34712.19	4578.39'	4.00'	4574.39'	4573.89'		Proposed storm conflicts with existing water service	Waterline relocation by Contractor as shown on Waterline Plans			

NOTE: 1. NUMBERING OF CONFLICTS IS NONCONTINUOUS.

## FOR INFORMATION ONLY

All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/7/2023		Sheet Revisions			Colorado Department of Transportation  606 South 9th Street Grand Junction, CO 81501 Phone: 970-683-6351 FAX: 970-683-6369	As Constructed	I-70B SOUTH OF ROAD EXISTING UTILITY CONFLICT MATRIX SHEET 9			Project No./Code
	File Name: 23583_UTL_PLN-MATRIX-1.dgn		Date:	Comments:	Init.		No Revisions:				NHPP 070A-037
	Horiz. Scale:      Vert. Scale: As Noted						Revised:	Designer: NLEE	Structure Numbers:		
	Unit Information						Void:	Detailer: BWILLIAMS		Sheet Subset: UTILITY	Subset Sheets: 32 of 38

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UTILITY OWNER	ID #	I-70B - Utility Conflict Matrix																	
		Conflict Location			Utility Data								Conflict Data				Conflict Resolution		
		Alignment Name	Station	Distance Lt. / Rt.	Test Hole No.	Size	Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Detailed Conflict Description	Proposed Mitigation / Action	Est. Resolution Date	Current status
												Top	Bottom	Top	Bottom				
WATER	W-40B	I-70B (Pitkin)	230+64	27' RT											Proposed storm crosses with existing water service	Waterline relocation by Contractor as shown on Waterline Plans			
	W-41	I-70B (Pitkin)	231+26	34' RT	65B	1"	COPPER	90467.17	34712.09	4578.47'	2.50'	4575.97'	4575.89'		Proposed storm crosses with existing water service	Waterline relocation by Contractor as shown on Waterline Plans			
	W-42	I-70B (Pitkin)	231+28	34' RT	65A	1"	COPPER	90467.17	34712.09	4578.48'	2.67'	4575.81'	4575.73'		Proposed storm conflicts with existing water service	Waterline relocation by Contractor as shown on Waterline Plans			
	W-45	2nd St	350+54	10' RT	71	10"	STEEL	89841.97	34598.23	4576.84'	4.33'	4572.51'	4571.67'		Proposed storm conflicts with existing water line	Waterline relocation by Contractor as shown on Waterline Plans			
	W-46	2nd St	351+62	12' RT	33	8"	PLASTIC	89844.94	34716.72	4577.28'	5'	4577.28'	4571.61'		Proposed storm crosses existing water line	Waterline relocation by Contractor as shown on Waterline Plans			
	W-47	2nd St	352+52	17' RT											Proposed storm inlet adjacent to 2 ft of existing water line	Waterline relocation by Contractor as shown on Waterline Plans			
	W-48	2nd St	353+40	21' LT											Proposed storm inlet passes near existing water line	Waterline relocation by Contractor as shown on Waterline Plans			
	W-49	2nd St	353+45	23' LT											Proposed storm conflicts with existing water line	Waterline relocation by Contractor as shown on Waterline Plans			
	SANITARY	S-1	I-70Z (Ute)	12+94	34' LT											Proposed storm crosses above existing sanitary line	Protect in place		
S-2		I-70Z (Ute)	13+21	10" LT											Proposed storm crosses above existing sanitary line	Protect in place			
S-3		I-70Z (Ute)	14+75	9' LT											Proposed storm crosses above existing sanitary line	Protect in place			
S-3E		I-70Z (Ute)	15+14	9' LT											Proposed storm crosses above existing sanitary line	Protect in place			
S-4		I-70Z (Ute)	16+64	33' LT											Proposed storm crosses above existing sanitary line	Protect in place			
S-5		I-70B (Pitkin)	216+70	34' RT											Proposed storm crosses above existing sanitary line	Protect in place			
S-6		I-70Z (Ute)	20+23	44' LT											Proposed storm crosses above existing sanitary line	Protect in place			

FOR INFORMATION ONLY

NOTE: 1. NUMBERING OF CONFLICTS IS NONCONTINUOUS.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/7/2023	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation  606 South 9th Street Grand Junction, CO 81501 Phone: 970-683-6351 FAX: 970-683-6369	As Constructed	I-70B SOUTH OF ROAD EXISTING UTILITY CONFLICT MATRIX SHEET 10				Project No./Code
	File Name: 23583_UTL_PLN-MATRIX-1.dgn		Date:	Comments	Init.		No Revisions:	NHPP 070A-037				
	Horiz. Scale:      Vert. Scale: As Noted						Revised:	Designer: NLEE	Structure Numbers	23583		
	Unit Information						Void:	Detailer: BWILLIAMS		Sheet Subset: UTILITY	Subset Sheets: 33 of 38	Sheet Number <b>174</b>

MSCHWAB 7/30/23 AM p:\1\p\h\res\cadd\h\DR\_US\_Centrida\_01\Documents\ColoradoDOT\_BA\CDOT\_R3\_I-70B\_Grand\_Junction\_South\_of\_Road\CDOT\_I-70B\_GJ\_STH\_OF\_ROAD\_T01\6\_0\_CAD\_BIM\6.2\_WIP\23583\_Utilities\_Sheets\Existing\_Utility\_Conflict\_Matrix\_Sheet 1

MSCHWAB 7/4/23 AM part\year\draceno\h\OR\_US\_Central\_01\Documents\Colorado\I-70B\_Grand\_Junction\_South\_of\_Road\CDDT\_I-70B\_GJ\_S11\_DF\_8000D\_T01\6.0\_CAD\_BNA\6.2\_WIP\23583\Utilities\Sheets\Existing Utility Conflict Matrix Sheet 1

UTILITY OWNER		I-70B - Utility Conflict Matrix																	
		Conflict Location			Utility Data								Conflict Data				Conflict Resolution		
		Alignment Name	Station	Distance Lt. / Rt.	Test Hole No.	Size	Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Detailed Conflict Description	Proposed Mitigation / Action	Est. Resolution Date	Current status
Top	Bottom	Top	Bottom																
SANITARY	S-8	I-70B (Pitkin)	219+95	27' RT											Proposed water crosses above existing sanitary line	Protect in place			
	S-9	I-70B (Pitkin)	222+20	34' RT											Proposed storm crosses above existing sanitary line	Protect in place			
	S-10	I-70Z (Ute)	29+63	159' RT											Proposed storm crosses above existing sanitary	Protect in place			
	S-14	2nd St	353+64	6' RT											Proposed storm crosses above existing sanitary line	Protect in place			
IRRIGATION	IR-1	I-70Z (Ute)	14+40	58' RT											Existing irrigation pullbox in conflict with proposed sidewalk	Reset to Final Grade			

NOTE: 1. NUMBERING OF CONFLICTS IS NONCONTINUOUS.

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All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/7/2023	Sheet Revisions			Colorado Department of Transportation			As Constructed	I-70B SOUTH OF ROAD EXISTING UTILITY CONFLICT MATRIX SHEET 11			Project No./Code
	File Name: 23583_UTL_PLN-MATRIX-1.dgn	Date:	Comments	Init.	 606 South 9th Street Grand Junction, CO 81501 Phone: 970-683-6351 FAX: 970-683-6369	No Revisions:	NHP 070A-037					
	Horiz. Scale:      Vert. Scale: As Noted					Revised:	Designer: NLEE	Structure	23583			
	Unit Information					Void:	Detailer: BWILLIAMS		Numbers			
 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-733-1520 FAX: 303-886-7139						Sheet Subset: UTILITY		Subset Sheets: 34 of 38	Sheet Number <b>175</b>			

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**WOOLPERT**  
 ARCHITECTURE | ENGINEERING | GEOSPATIAL  
 770 S. COLORADO BLVD. #1200-5  
 GLENDALE, COLORADO 80246  
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 (303) 925-1401 FAX

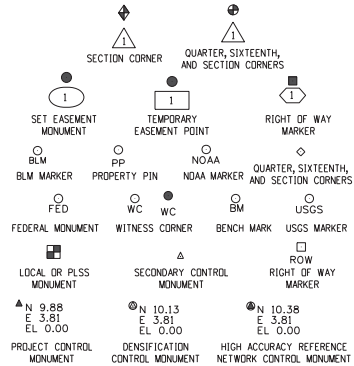
Project Control Diagram			
Title Sheet			
Project Number:	NHPP 070A-037		
Project Location:	I-70B SOUTH OF ROOD		
	GRAND JUNCTION, CO		
Project Code:	Last Mod. Date	Subset	Sheet No.
23583	10-7-22	3.01 of 3.04	3.01

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

## PROJECT CONTROL DIAGRAM

State Highway I-70B MP 5.19 to 6.68  
 Sections 13,14 &15  
 Township 1 South, Range 1 West  
 of the Ute Principal Meridian  
 County of Mesa

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



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

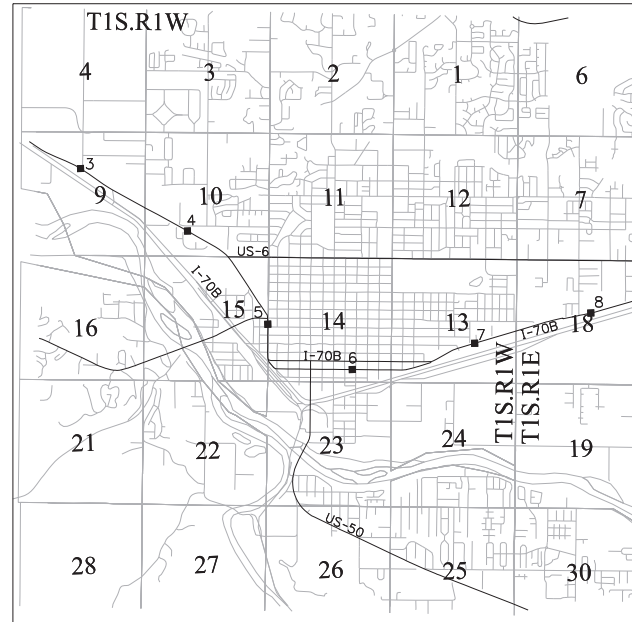


Typical Control Monument Cap  
 Not to Scale

▲ CM-MP - Control Point Monuments set by Woolpert. They are CDDT Type 5S monuments, a 1" dia. brass (plug) control monument cap (as shown) set in concrete.

General Notes:

- This Project Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
- This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDDT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
- Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2006 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.



PROJECT LOCATION MAP



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N88°46'24"E from CM-MP 5.19 to CM-MP 5.58. Both monuments are CDDT Type 5S, marked appropriately for their milepost location and control position.

Basis of Elevations: Project elevations are based on SN01, with a NAVD 88 elevation of 4766.592ft. SN01 is the Central Meridian point.

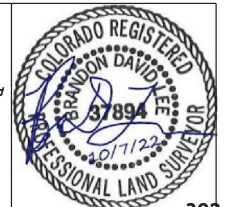
COORDINATE DATUM: This project control was perpetuated from the Mesa County Local Coordinate System (MCLCS)  
 Grand Valley Area  
 Zone: GVA  
 Projection: Transverse Mercator Projection  
 Point of Origin: SN01  
 Northing: 50,000 Ft  
 Easting: 100,000 Ft  
 Project/Scale Factor Height: 4,644 Ft (NAVD 88)  
 Latitude (Degrees): 39° 06' 22.72756"N  
 Latitude (Decimal): 39.106313211°  
 Longitude (Degrees): 108° 32' 01.43463"W  
 Longitude (Decimal): 108.533731842°  
 Scale Factor: 1.000218181798

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

SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, Brandon Lee, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Project Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a warranty or warranty, d or implied.

PLS No. 37894



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Project Control Diagram			
Coordinates Tabulation			
Project Number: NHPP 070A-037			
Project Location: I-70B SOUTH DF ROOD			
GRAND JUNCTION, CO			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
23983	10-7-22	3.01 to 3.04	3.02

PROJECT COORDINATE TABLE				
Point No.	Project Coordinates		Elev (ft) (NAVD88)	Description
	Northing (ft)	Easting (ft)		
SN01	50000.00	100000.00	4766.59	NGS HARN POINT 88 GPS#100
519	35061.54	89796.49	4578.98	CDOT TYPE 5S -CDOT 5.19-
520	34783.83	89796.23	4577.32	CDOT TYPE 5S -CDOT 520-
522	34701.00	89861.67	4576.66	CDOT TYPE 5S -CDOT 5.22-
548	34692.23	91220.37	4580.04	CDOT TYPE 5S -CDOT 5.48-
558	35102.88	91727.10	4583.67	CDOT TYPE 5S -CDOT 5.58-
576	34749.01	92693.91	4581.25	CDOT TYPE 5S -CDOT 5.76-
586	35039.41	93239.42	4585.70	CDOT TYPE 5S -CDOT 5.86-
612	35116.52	94659.49	4589.54	CDOT TYPE 5S -CDOT 6.12-
613	34685.60	94657.76	4587.26	CDOT TYPE 5S -CDOT 6.13-
631	35042.43	95619.58	4591.31	CDOT TYPE 5S -CDOT 6.31-
632	34784.77	95629.91	4589.76	CDOT TYPE 5S -CDOT 6.32-
653	35119.73	96685.89	4596.83	CDOT TYPE 5S -CDOT 6.53-
668	35538.13	97389.09	4598.78	CDOT TYPE 5S -CDOT 6.68-
P036	34189.98	94689.07	4585.12	3.25 IN BC -JACOBS T1S R1W/S14 S13 S23 S24/2013/PLS24961-
515	35052.79	89450.31	4578.61	CDOT TYPE 5S
520	34783.90	89796.30	4577.32	CDOT TYPE 5S
210	35108.91	90361.03	4579.57	5D NAIL
818	35131.76	89871.19	4579.65	1" BP SET
820	35313.05	89490.49	4580.13	HINGE NAIL
902	35849.81	89496.42	4580.58	HINGE NAIL
903	35846.00	89389.00	4579.59	HINGE NAIL

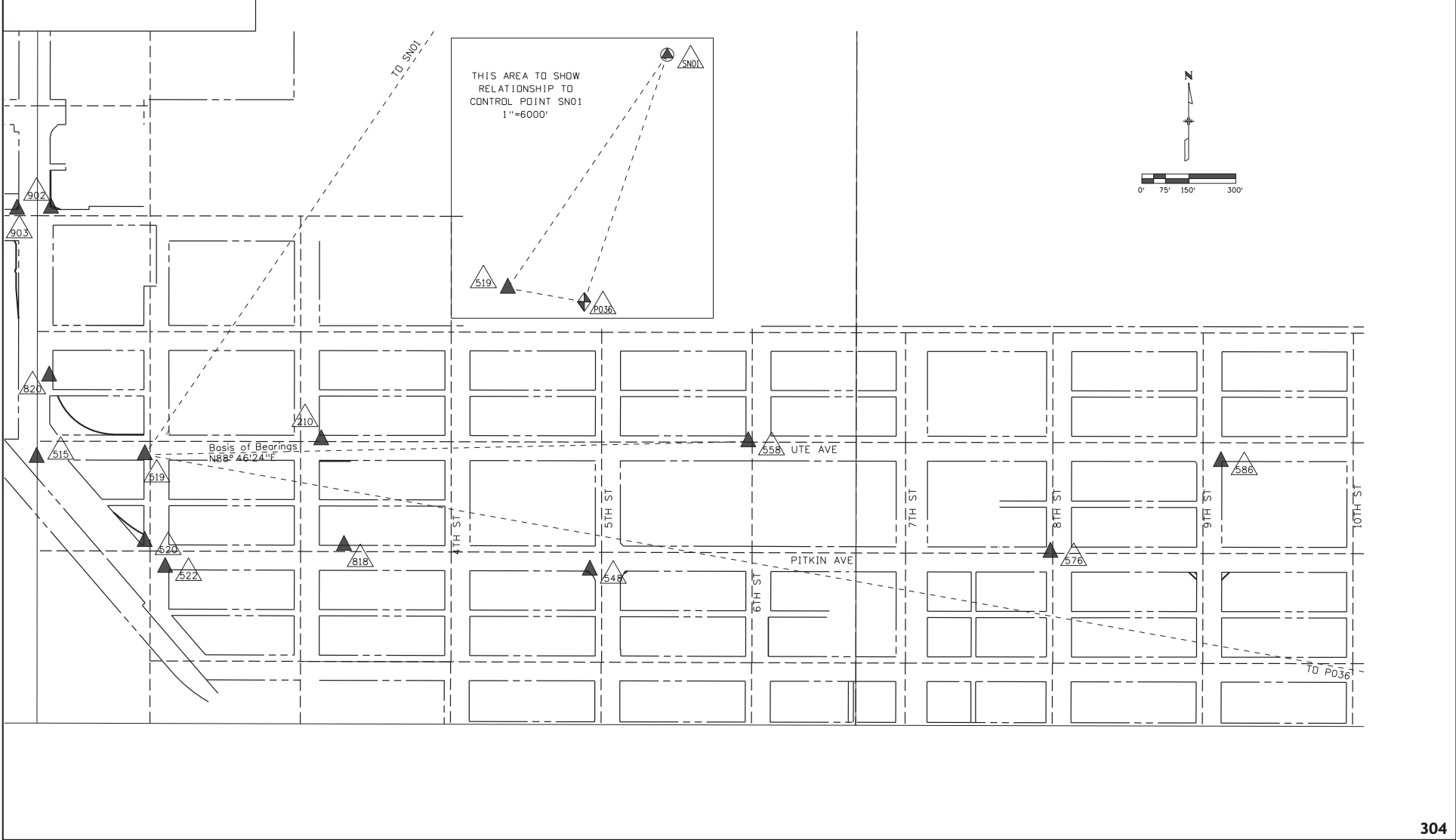
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All seals for this set of drawings are applied to the cover page(s)

Project Control Diagram			
Plan Sheet			
Project Number: NHPP 070A-037			
Project Location: I-70B SOUTH OF ROAD			
GRAND JUNCTION, CO			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
23583	10-7-22	3.01 to 3.04	3.03



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Date	Description	Initials	Date	Description	Initials	Date	Description	Initials
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All seals for this set of drawings are applied to the cover page(s)

Project Control Diagram			
Plan Sheet			
Project Number: NHPP 070A-037			
Project Location: I-70B SOUTH OF ROAD			
GRAND JUNCTION, CO			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
23983	10-7-22	3.01 to 3.04	3.04

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