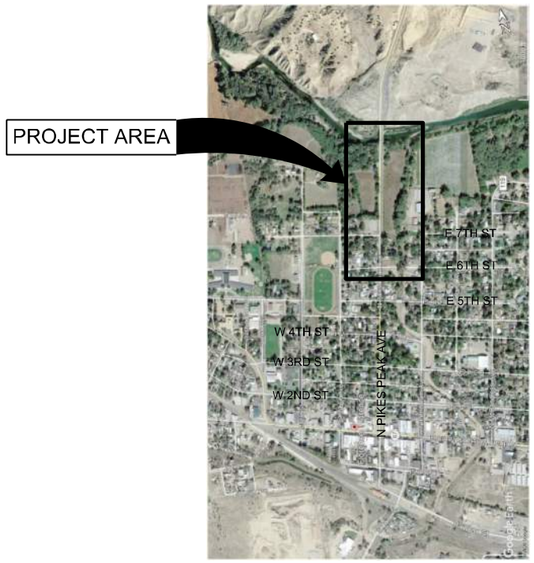
NORTH PIKES PEAK WATER LINE
OCTOBER 2024
CITY OF FLORENCE, CO
ENGINEER'S PROJECT NUMBER: D330100

Jacobs

LOCATION MAP
NTS
SOURCE: GOOGLE EARTH



VICINITY MAP
NTS
SOURCE: GOOGLE EARTH

COLORADO LICENSED
BRIAN EDWARD TOMA
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APV'D
	03/2024	AS-BUILT RECORD DRAWINGS		

DSGN A SMITH | DR A SMITH | CHK R PHILLIPS | APV'D R SAXTON

CITY OF FLORENCE CO

Jacobs

COVER SHEET

30% DOCUMENT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2023
PROJ	D3330100
DWG	G-001
SHEET	of

SHEET INDEX

SHEET	DRAWING NO.	SHEET TITLE
GENERAL		
1	G-001	COVER SHEET
2	G-002	SHEET INDEX, ABBREVIATIONS AND GENERAL NOTES
3	G-003	KEYMAP
4	G-004	STAGING AREA
5	G-005	EXISTING UTILITY PLAN
6	G-006	SURVEY CONTROL PLAN
7	G-007	EXISTING UTILITY PLAN
8	G-008	EXISTING UTILITY PLAN
9	G-009	EXISTING UTILITY PLAN
10	G-010	EXISTING UTILITY PLAN
CIVIL		
11	PP-01	PLAN AND PROFILE 1
12	PP-02	PLAN AND PROFILE 2
13	PP-03	PLAN AND PROFILE 3
14	PP-04	NORTH AND SOUTH LATERAL AT 6TH AND 7TH STREET
15	AP-01	ASPHALT AND PAVEMENT PLAN 1
16	AP-02	ASPHALT AND PAVEMENT PLAN 2
17	AP-03	ASPHALT AND PAVEMENT PLAN 3
18	DT-01	STANDARD DETAILS
19	DT-02	STANDARD DETAILS
20	DT-03	STANDARD DETAILS
21	DT-04	STANDARD DETAILS

ABBREVIATIONS

@	AT
AVE	AVENUE
BOT	BOTTOM
CIP	CAST IRON PIPE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE OR DIMENSION RATIO
E	EAST
EL	ELEVATION
EXST	EXISTING
EW	EACH WAY
FM	FORCE MAIN
FO	FIBER OPTIC
G	GAS
GM	GRAVITY MAIN
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
INV	INVERT
IP	IRON POST
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTH
NCP	NONREINFORCED CONCRETE PIPE
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHC	OVERHEAD TELEPHONE
OHE	OVERHEAD ELECTRIC
PE	PERMANENT EASEMENT
PL	PROPERTY LINE
PP	POWER POLE
PVC	POLYVINYLCHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RED	REDUCER
REQD	REQUIRED
RJ	RESTRAINED JOINT
RT	RIGHT
RR	RAILROAD
R/W	RIGHT OF WAY
S	SOUTH
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SN	SEWER MANHOLE NUMBER
SPECD	SPECIFIED
SS	SANITARY SEWER
SST	STAINLESS STEEL
SUE	SUBSURFACE UTILITY ENGINEERING
STA	STATION
T, TEL	TELEPHONE
TE	TEMPORARY EASEMENT
TV	TELEVISION
TYP	TYPICAL
UGP	UNDERGROUND POWER
UNK	UNKNOWN
VERT	VERTICAL
W	WATER, WEST
W/	WITH
WT	WEIGHT

GENERAL NOTES

1. PIPELINE STATIONING AND LENGTHS OF THE PIPE INDICATED ARE BASED ON HORIZONTAL PROJECTION OF THE PIPE CENTERLINE.
2. INDICATED SCALES ARE BASED ON FULL-SIZE DRAWINGS, AND IF DRAWINGS ARE REDUCED, SCALES MUST BE ADJUSTED ACCORDINGLY.
3. REFER TO THE SUE DRAWINGS FOR INFORMATION ON EXISTING BURIED UTILITIES. EXISTING UTILITIES ARE SHOWN ON THESE PLANS FOR CONVENIENCE OF THE CONTRACTOR. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPE AND/OR STRUCTURES, AS SHOWN, ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE AGENCY STANDARDS. TAKE PRECAUTIONARY MEASURES TO PROTECT UTILITY LINES AND STRUCTURES SHOWN AS WELL AS ANY AND ALL OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS. EXISTING UTILITY SERVICE LATERALS ARE TYPICALLY NOT SHOWN ON THESE PLANS UNLESS OTHERWISE INDICATED. ALSO, NOTE THAT THESE SUE DRAWINGS WERE PREPARED BASED ON DATA AVAILABLE IN JANUARY 2020.
4. VERIFY THE ACTUAL LOCATION, ELEVATION AND CONDITION OF POINTS OF CONNECTION TO EXISTING FACILITIES AND PROVIDE NOTICE OF ANY DISCREPANCIES AS INDICATED.
5. PRESERVE ALL SURVEY MARKERS AND MONUMENTATION WHEREVER POSSIBLE. RE-ESTABLISH THOSE REQUIRING REMOVAL IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY.
6. LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE RIGHT-OF-WAY, EASEMENTS AND ANY OTHER DESIGNATED WORK AREAS AS INDICATED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES AS A RESULT OF CONSTRUCTION ACTIVITIES OUTSIDE OF RIGHT-OF-WAYS, EASEMENTS AND ANY OTHER DESIGNATED WORK AREAS SHOWN ON THE DRAWINGS.
7. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AS INDICATED.
8. ALL SPECIFICATIONS, DRAWINGS, AND DETAILS INCLUDED IN THE CONTRACT DOCUMENTS SHALL FULLY APPLY TO THE WORK WHETHER SPECIFICALLY REFERENCED OR NOT.
9. LAY PIPE TO CONTINUOUS UPWARD OR DOWNWARD SLOPE BETWEEN INDICATED ELEVATION POINTS WHILE MAINTAINING MINIMUM CLEARANCE WITH EXISTING UTILITIES. NOTIFY CITY AND ENGINEER IMMEDIATELY OF CONFILCTS THAT REQUIRE PROFILE CHANGES.
10. IF CONNECTION IS LESS THAN 5 FT TO AN EXISTING PIPE JOINT, ADVISE CITY AND ENGINEER IMMEDIATELY, ANTICIPATE NEEDING TO EXTEND/REPLACE UP TO 5 FT BEYOND WITH A NEW RESTRAINED JOINT DIP TO THE EXISTING JOINT.
11. FIELD VERIFY CONNECTION LOCATIONS, INVERTS, AND PIPE SIZE VIA POTHOLING AND CONTACT ENGINEER WITH ANY CONFLICTS PRIOR TO SHOP DRAWING SUBMISSION.
12. ONLY CITY OF FLORENCE STAFF SHALL OPERATE VALVES ON THE EXISTING WATER SYSTEM.
13. ALL VALVES AND FITTINGS TO BE RESTRAINED WITH MEG-A-LUGS OR EQUAL. ALL PIPE TO BE RESTRAINED JOINT PIPES. ALL BENDS TO ALSO BE RESTRAINED WITH THRUST BLOCKS.
14. PATCH ASPHALT, CURB AND GUTTER AS DETAILED.
15. CONCRETE FOR SIDEWALK SHALL BE CLASS B (f'c=4,500 psi) PER CDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 601 AND SECTION 608.

COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	DSGN	REVISION	CHK	BY	APVD
	03/2024	A SMITH	AS-BUILT RECORD DRAWINGS	R PHILLIPS	A SMITH	R SAXTON

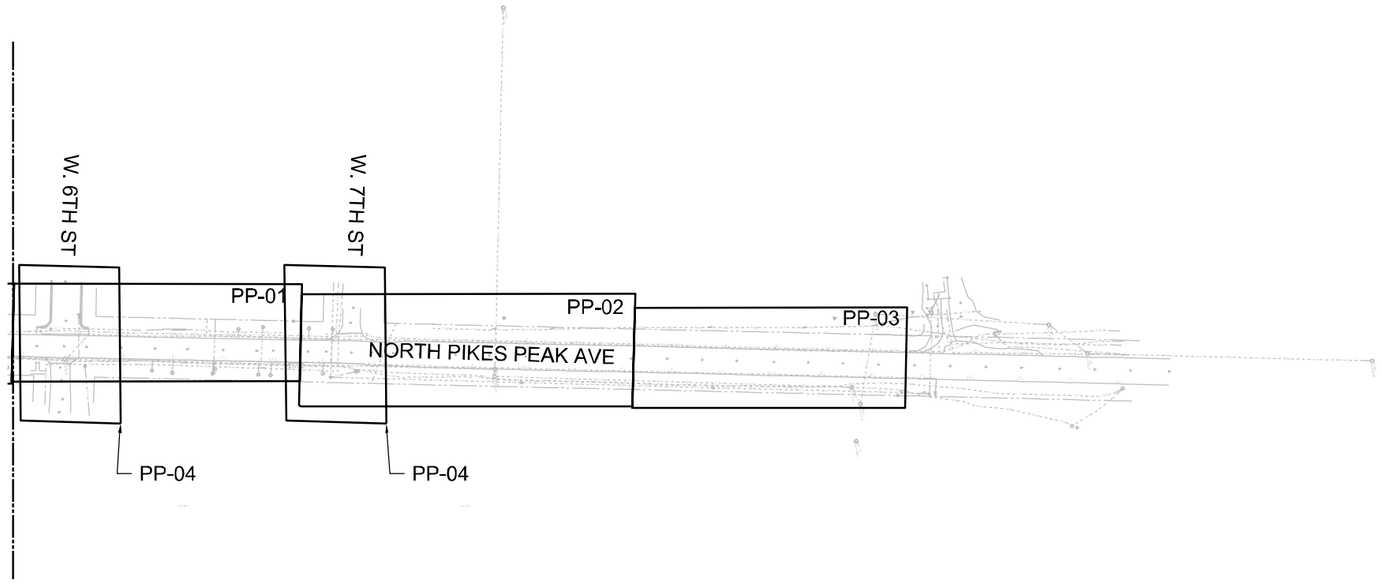
Jacobs

SHEET INDEX, ABBREVIATIONS AND GENERAL NOTES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	OCTOBER 2024
PROJ	D3330100
DWG	G-002
SHEET	of

30% DOCUMENT



N

0 100 200 300

Scale In Feet

COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APVD
DSGN	A SMITH	DR	R PHILLIPS	CHK	R SAXTON	APVD	A SMITH

Jacobs

CITY OF FLORENCE FLORENCE CO

KEYMAP

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	OCTOBER 2024
PROJ	D3330100
DWG	G-003
SHEET	of

30% DOCUMENT

NOTES:

1. RESTORE STAGING AREA TO PRECONSTRUCTION CONDITONS.

STAGING AREA

N

0 100 200 300

Scale In Feet

COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APVD
	03/2024	AS-BUILT RECORD DRAWINGS		
DSGN	A SMITH	DR A SMITH / R PHILLIPS / CHK R SAXTON	APVD	A SMITH

Jacobs

CITY OF FLORENCE CO FLORENCE

STAGING AREA

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

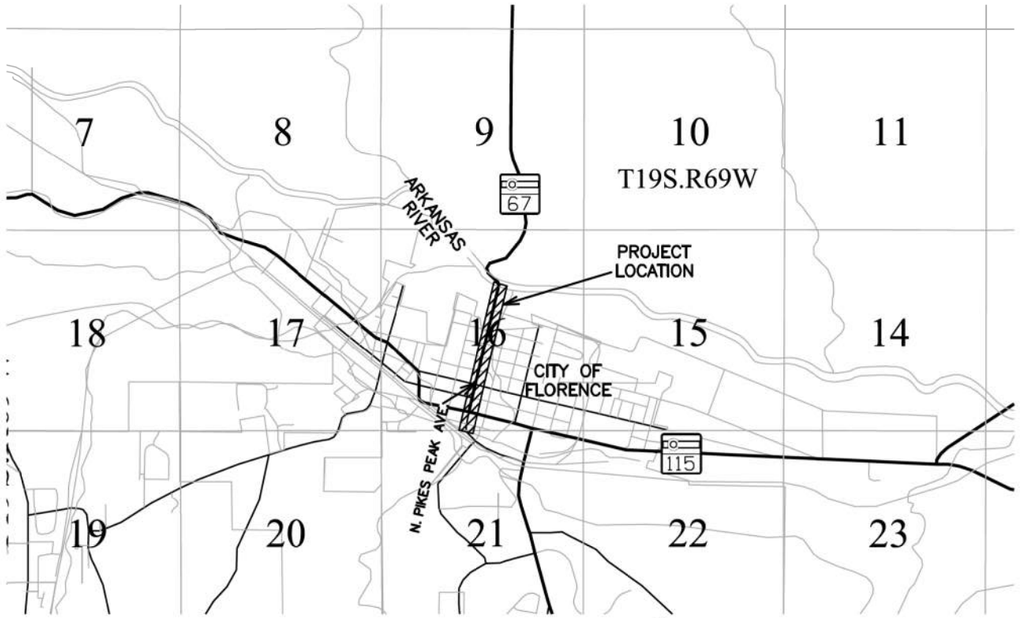
0 1"

DATE	OCTOBER 2024
PROJ	D3330100
DWG	G-004
SHEET	of

30% DOCUMENT

CITY OF FLORENCE
WATERLINE REPLACEMENT

North Pikes Peak Avenue/Highway 67 Waterline Replacement
SECTION 16, TOWNSHIP 19 SOUTH, RANGE 69 WEST, 6th
PRINCIPAL MERIDIAN
CITY OF FLORENCE
COUNTY OF FREMONT
STATE OF COLORADO



VICINITY MAP
SCALE 1" = 2000'

UTILITY NOTES:
1. Existing utility information collected in accordance with ASCE 38-02 guidelines.
2. Underground utilities were traced using inductive or conductive methods. Ground Penetrating Radar or other geophysical investigation techniques were not utilized to search for nonconductive utilities or utilities not identified by surface or map evidence. Manholes and vaults were opened and measured using a dip rod.
3. Abandoned facilities were not designated as part of the scope of work. Design Engineer and Contractor should review supplemental utility owner records to familiarize themselves with the potential for existing abandoned facilities.
4. Subsurface utilities as shown meet ASCE 38-02 Quality Level B unless otherwise indicated.
5. Storm and Sanitary Lines shown meet ASCE Quality Level C.
6. Existing sanitary services were not investigated and are not shown.
7. All water was marked and located by City of Florence Water Dept, per their request.
8. Gas line in the alley on west side of N Pikes Peak Ave between E 3" St and E 4" St differs from Atmos maps. Does not enter project limits.
9. Century link map shows underground crossing at N Pikes Peak Ave at the alley between E 3" St and E 4" St. Verified maps are incorrect line is overhead.
10. Unable to find water meter or water svc to house on N/W corner of E 4" St and N Pikes Peak Ave.
11. Century link map shows underground crossing at alley between E 4" St and E 5" St on N Pikes Peak Ave. Verified maps are incorrect line is overhead.
12. Unable to find water meter or water svc to house at N/W corner of E 5" St and N Pikes Peak Ave.
13. Unable to find water meter or water svc to house at N/E corner of E 5" St and N Pikes Peak Ave.
14. Century link map shows underground crossing at alley between E 5" St and E 6" St on N Pikes Peak Ave. Verified maps are incorrect line is overhead.
15. Gas line running on E 6" St then turning N differs from Atmos maps. Verified maps are incorrect.
16. Century link map shows underground crossing at alley between E 6" St and E 7" St on N Pikes Peak Ave. Verified maps are incorrect line is overhead.
17. Century link map shows a phone line running from a MH on the west side of N Pikes Peak Ave in the alley between E 2nd St and E 3" St then runs north through the project limits on the east side of N Pikes Peak Ave. Unable to verify line possibly abandoned.
18. Atmos gas line map stops before reaching bungalow on north.
19. Century link map shows underground crossing north of 7th St. No crossing found in field.

CERTIFICATION:
I hereby certify that the existing utility information shown herein was collected and depicted pursuant to the requirements of Colorado Senate Bill SB-18-167 and ASCE 38-02, "The Standard guideline for the collection and depiction of existing subsurface utility data".

Antonio Esposito, P. E. #47639
For and on behalf of Jacobs Engineering Group Inc.
9191 S. Jamaica St, Englewood, CO 80112
Antonio.Esposito@jacobs.com

LEGEND

Fiber Optic Handhole 24x36	Fiber Optic Locate Marking
Fiber Optic Line Marker Post	Telephone Overhead
Fiber Optic Manhole	Communication Locate Marking
Telephone Pedestal	Electric Locate Marking
Communication Box	Electric Overhead
Communication Line Marker Post	Irrigation Pipe
Electric Box	Irrigation Pipe(approximate)
Irrigation Box	Natural Gas Locate Marking
Natural Gas Line Marker Post	Pavement Asphalt
Sanitary Cleanout	Sanitary Pipe
Sanitary Manhole	Fence Chain Link
Traffic Vault Point	Traffic Locate Marking
Water Fire Hydrant	Water Locate Marking
Water Meter	Water Line(approximate)
Water Valve	Terrain Grade Break / Breakline
Storm Drain Manhole	Storm Drain Channel
Irrigation Manhole	Storm Drain Channel Flowline
Utility Pole	Storm Drain Inlet
Utility Pole w/ Light	Storm Drain Pipe
Utility Guy Wire	Storm Drain Pipe(approximate)
	Utility Overhead Line
	Major Contour line
	minor contour line
	Right of Way(approximate)

SURVEY NOTES:
1. 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.
2. PROJECT COORDINATE SYSTEM: Mapping is based on modifying NAD 83 (Conus) Colorado State Plane South Zone (0503) by scale and truncation factors. The Combined Scale Factor used to modify the State Plane Coordinates is 1.00028. The Northing truncation is 1000000 US Survey feet (USft), and the Easting truncation is 3000000 USft. Elevations are NAVD88. All units are in USft. Calculation to convert a State Plane Coordinate to ground-based coordinate system:
   Ground Northing = (State Plane Northing - Northing Truncation) * Combined Scale Factor
   Ground Easting = (State Plane Easting - Easting Truncation) * Combined Scale Factor
3. SURVEY METHODS SUMMARY: Field surveying was conducted between January 13, 2020 and January 23, 2020. Primary project control was established via RTK GNSS using control station J178 for horizontal and vertical positioning. Secondary (temporary) control was established by turned angle sets to carry horizontal values. The feature information shown on this survey was collected using total station and RTK GNSS survey methods. Topographic features and improvements and utility paint markings surveyed with total stations.
4. RIGHT OF WAY: This is not a boundary survey. Road Rights-of-Way were calculated by offsetting the center of road at distances verified by researching subdivisions of record in the Fremont County Clerk and Recorder's Office. Calculated Rights-of-Way were checked against minimal found monuments. Adjoining parcel lines and ownership are from Fremont County Assessor GIS. This survey does not constitute a title search by Jacobs Engineering Group Inc. No title commitments were supplied.

DRAWING INDEX

DWG NO	DWG TITLE
SHEET 1	COVER SHEET
SHEET 2	CONTROL SHEET
SHEET 3	EXISTING UTILITY PLAN
SHEET 4	EXISTING UTILITY PLAN
SHEET 5	EXISTING UTILITY PLAN
SHEET 6	EXISTING UTILITY PLAN
SHEET 7	EXISTING UTILITY PLAN

COLORADO LICENSED
ANTONIO G. ESPOSITO
47639
03/18/2023
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APVD
DSGN	J KIELMAN	DR J KIELMAN CHK A SMITH	APVD	R SAXTON

Jacobs

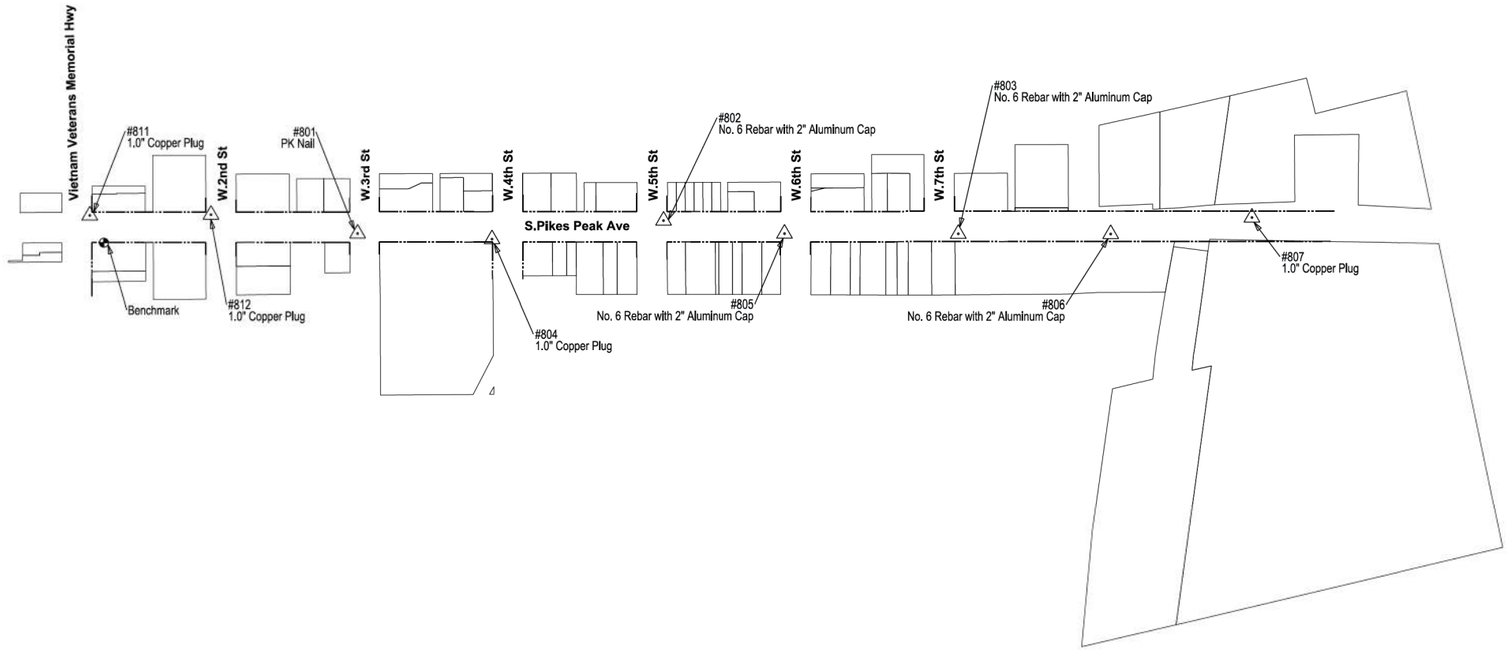
EXISTING UTILITY PLAN

BIDDING DOCUMENTS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2023
PROJ	D3330100
DWG	G-005
SHEET	of

CITY OF FLORENCE
WATERLINE REPLACEMENT
SURVEY CONTROL DIAGRAM



Point #	Northing	Easting	Elevation	Description
801	1628886.44	3110595.99	5168.90	CP PK NAIL
802	1629682.62	3110744.23	5160.20	CP 6RBR W/ 2IN AC
803	1630435.62	3110952.96	5154.30	CP 6RBR W/ 2IN AC
804	1629230.74	3110690.33	5163.50	CP 1.0IN COPPER PLUG
805	1629987.31	3110849.40	5156.86	CP 6 RBR W/2IN AC
806	1630826.73	3111043.46	5154.23	CP 6RBR W/2.0IN AC
807	1631197.73	3111084.40	5156.90	CP 1.0IN COPPER PLUG
811	1628208.57	3110391.33	5179.10	CP 1.0IN COPPER PLUG
812	1628520.65	3110461.09	5174.40	CP 1.0IN COPPER PLUG

0 50' 100' 200' 400'
1 inch = 200 ft.

SURVEY NOTES:

BASIS OF ELEVATIONS:
The benchmark used for this project is NGS J179, a Bench Mark disk located in Florence, Colorado, at the intersection of Main Street and Pikes Peak, at the northeast corner of the intersection, 5.3 feet north of the southeast corner of the First National Bank Building, 4.3 feet above the sidewalk, set vertically in the west brick wall of the bank building. The elevation of J179 is 5184.43 U.S. Survey Feet (NAVD, 1988).

COORDINATE SYSTEM NOTE:
Horizontal coordinates shown hereon are modified Colorado State Plane South Zone, NAD83.
To convert grid coordinates to ground coordinates, multiply grid coordinates by a Scale Factor of 1.0002760606.

COLORADO LICENSED
JULIA S. KEILMAN
38315
PROFESSIONAL LAND SURVEYOR

Julia S. Keilman, PLS 38315

Date: 10/29/2020

For and on behalf of Jacobs Engineering Group Inc.
9191 South Jamaica Way
Englewood, Colorado, 80112
Julia.keilman@jacobs.com

SURVEYOR'S STATEMENT:
I, Julia S. Keilman, a Professional Land Surveyor licensed in the Sate of Colorado, do hereby state to the City of Florence, that this Survey Control Diagram was prepared under my responsible charge, and based on my knowledge, information, and belief, in accordance with acceptable standards of practice, except as noted hereon. This statement is not a guaranty or warranty, either expressed or implied. The field survey was completed in January 2020.

COLORADO LICENSED
JOHN EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APVD
DSGN	A SMITH	AS-BUILT RECORD DRAWINGS	A SMITH	APVD
	03/2024	DR	CHK	R SAXTON
		R PHILLIPS		

Jacobs

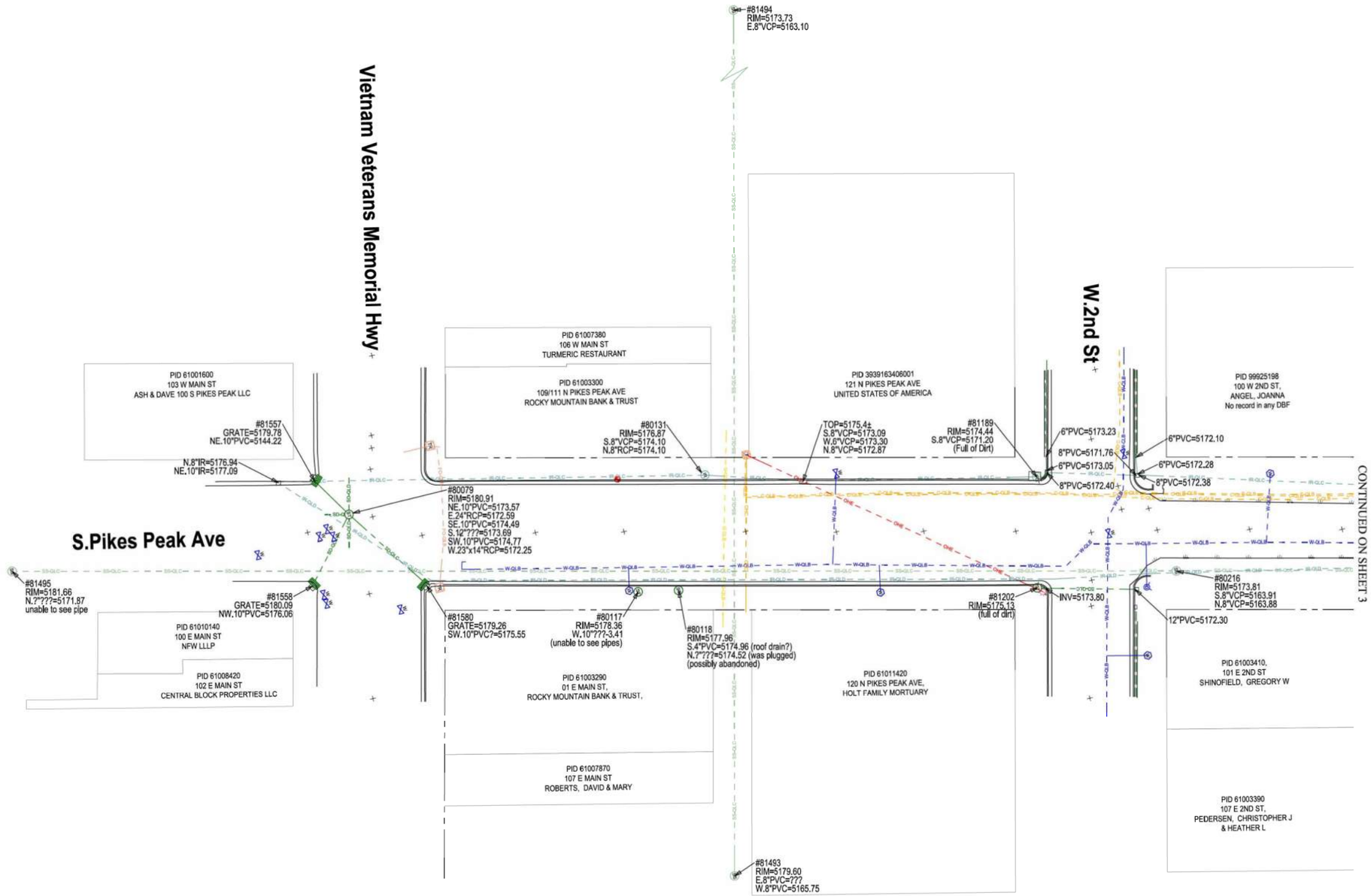
SURVEY CONTROL PLAN

30% DOCUMENT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE
PROJ D3330100
DWG G-006
SHEET of

$PWURL $PWPATH FILENAME: 005-G-006_SchC.dgn PLOT DATE: 2024\10\07 PLOT TIME: 9:05:52 AM



COLORADO LICENSED
ANTONIO G. ESPOSITO
47636
03/27/2023
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	DR	CHK	APVD	BY	APVD
DSGN	J KIELMAN	C LAMB	C LAMB	A SMITH	A SMITH	A ESPOSITO	

CITY OF FLORENCE COLORADO

Jacobs

EXISTING UTILITY PLAN

BIDDING DOCUMENTS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2023
PROJ	D3330100
DWG	005-G-007
SHEET	of

#81490
RIM=5167.88
E.8"VCP=5157.20

#81488
RIM=5162.20
E.8"???=5151.38
(unable to see pipes)

W.3rd St

W.4th St

PID 99925198
100 W 2ND ST,
ANGEL, JOANNA
No record in any DBF

PID 3939163413001
215 N PIKES PEAK AVE,
PRAISE COMMUNITY CHURCH

PID 99927138
223 N PIKES PEAK AVE
BECHTLE, DAVID J & MARY L

PID= 61011520
106 W 3RD ST
EGGLESTON, JAMES E & REBECCA T

PID 61009430
309 N PIKES PEAK AVE
EGGLESTON, JAMES E & REBECCA T

PID= 61001820
315 N PIKES PEAK AVE
BREKER , AUTUMN

PID 61010540
107 W 4TH ST
BEATRIX-SANKOT, ANNE

PID 61008190
325 N PIKES PEAK AVE
NELSON, BRADLEY ROGER
& CONSTANCE JEAN

PID= 61010050
401 N PIKES PEAK AVE
TARIN FAMILY TRUST

PID 61001890
407 N PIKES PEAK AVE
PARKER JAMES D & KATHERINE

PID 61010200
417 N PIKES PEAK AVE
ESCOBEDO, PAUL L.

10"PVC=5170.13
8"IRON=5170.28
8"IRON=5170.30

10"PVC=5167.57
12"PVC=5166.33
12"PVC=5164.96
6"CONC=5165.46
6"CONC=5165.08

12"IRON=5162.93
2"IRON=5162.56
?"RCP=5162.53
12"IRON=5162.90

8"PVC=5161.28
8"PVC=5161.43
?"STL=5160.43
?"STL=5161.20
10"IRON=5160.82
10"IRON=5160.55
12"STL=5160.55
12"STL=5159.26

CONTINUED ON SHEET 2

CONTINUED ON SHEET 4

Cement Ditch
In Curb

3"PVC=5168.33
10"PVC=5167.36
8"PVC=5165.92
8"PVC=5167.13
8"PVC=5166.41
8"PVC=5163.42
10"PVC=5169.70

#80508
GRATE=5165.22±
8"PVC=5163.37

#80509
RIM=5164.95
N.8"IRON=5157.19
E.8"IRON=5154.11
E.3"IRON=5160.54
S.8"IRON=5157.26
W.3"IRON=5160.61
W.8"IRON=5154.06

#80526
RIM=5163.82
S.8"PVC=5156.89
N.8"PVC=5156.86

#80580
RIM=5161.56
S.8"VCP=5150.41
N.8"VCP=5149.96
8"PVC=5160.60
10"CMP=5160.32
8"RCP=5160.58
8"PVC=5160.94
12"PVC=5160.22
10"PVC=5160.94
10"PVC=5160.97
12"PVC=5160.85
12"IRON=5160.27
12"IRON=5160.67
8"PVC=5160.31

PID 3939163401004
QWEST only 70' X 75'

PID 61003410,
101 E 2ND ST
SHINOFIELD,
GREGORY W

PID 61000330
104 E 3RD ST,
COMBS, ADAM & REBEKAH

PID 61003390
107 E 2ND ST,
PEDERSEN,
CHRISTOPHER J
& HEATHER L

PID 3939164220001
CITY OF FLORENCE
Pioneer Park

PID 61002010
402 N PIKES PEAK AVE
WINTON , WYQUITA

PID 61000870,
408 N PIKES PEAK AVE
PASTORE, MATTHEW S.
& DOMINIQUE

PID 61010180
410 N PIKES PEAK AVE
KILZER, BRYAN

PID 61000460
414 N PIKES PEAK AVE
ROPP, STEVEN L

#81489
RIM=5172.70
W.8"VCP=5161.06

#81487
RIM=5167.95
W.8"???=5157.17
(unable to see pipe)

0 7.5 15 30 60
1 inch = 30 ft.

COLORADO LICENSED
ANTONIO G. ESPOSITO
47639
03/27/2023
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APVD
DSGN	J KIELMAN	DR J KIELMAN CHK A SMITH	A ESPOSITO	APVD

CITY OF FLORENCE

Jacobs

EXISTING UTILITY PLAN

BIDDING DOCUMENTS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2023
PROJ	D3330100
DWG	G-008
SHEET	of

NO.	DATE	REVISION	BY	APVD
DSGN	J KIELMAN	DR	J KIELMAN	CHK	A SMITH	APVD	A ESPOSITO

COLORADO LICENSED
ANTONIO G. ESPOSITO
47636
03187/2023
PROFESSIONAL ENGINEER

CITY OF FLORENCE CO FLORENCE

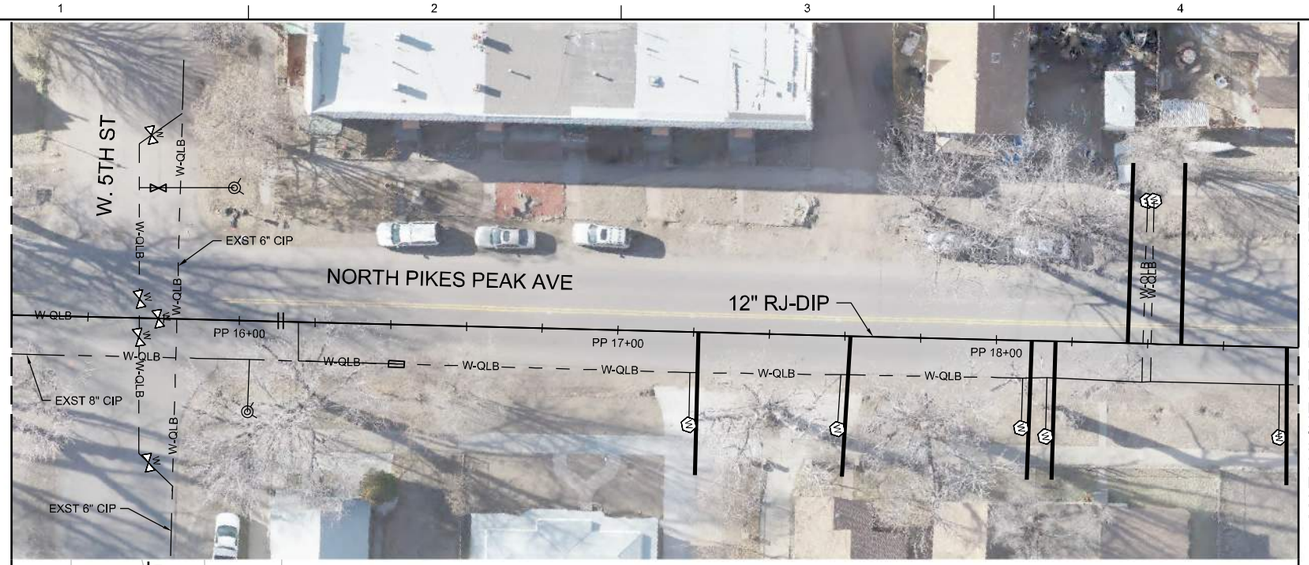
Jacobs

EXISTING UTILITY PLAN

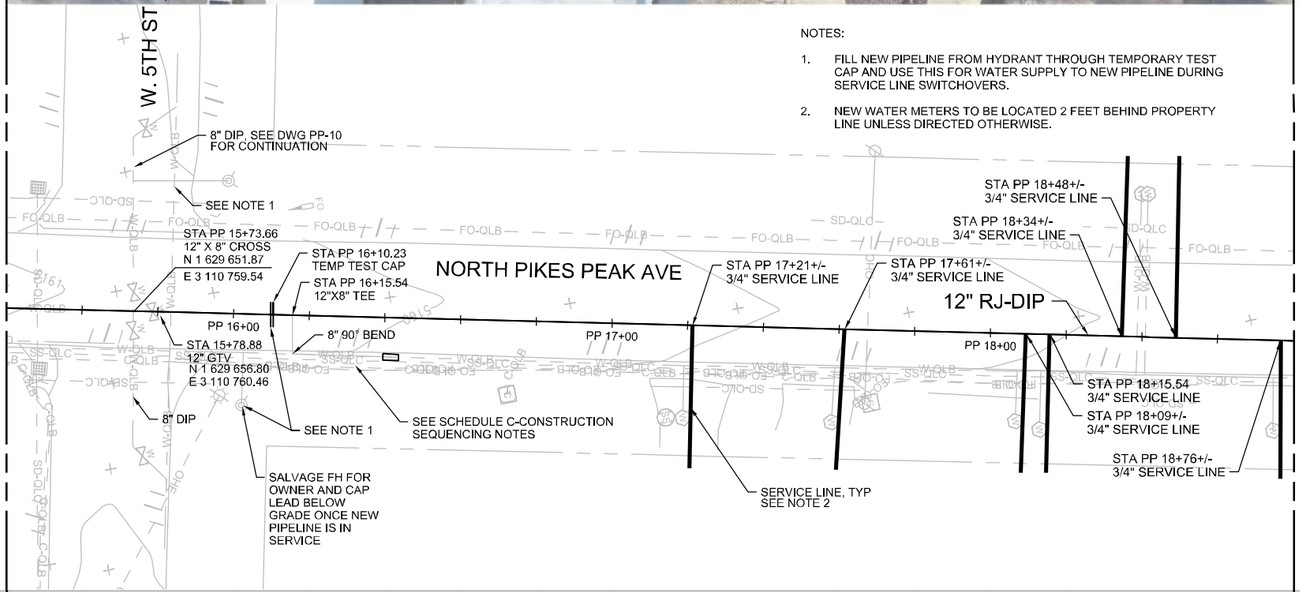
BIDDING DOCUMENTS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	MARCH 2023
PROJ	D3330100
DWG	G-009
SHEET	of



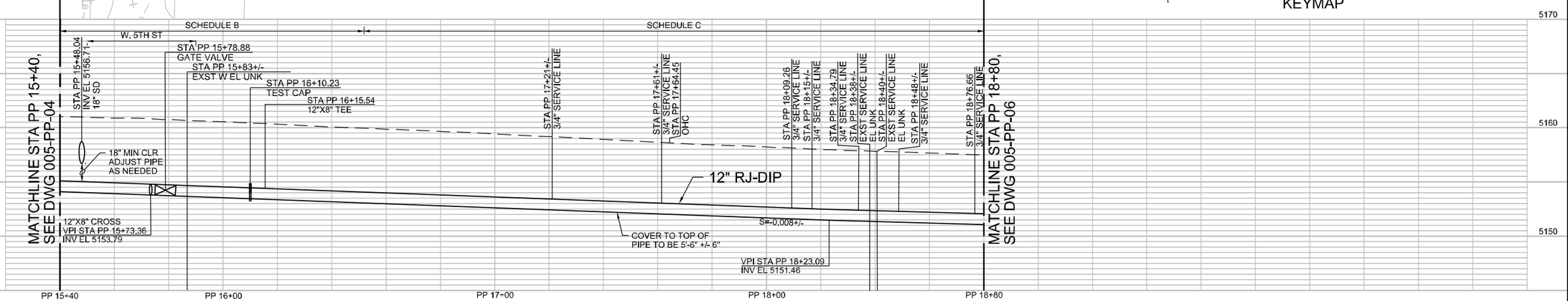
MATCHLINE STA PP 18+80, SEE DWG 005-PP-06



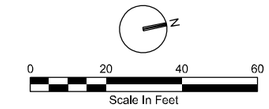
MATCHLINE STA PP 18+80, SEE DWG 005-PP-06

NOTES:

1. FILL NEW PIPELINE FROM HYDRANT THROUGH TEMPORARY TEST CAP AND USE THIS FOR WATER SUPPLY TO NEW PIPELINE DURING SERVICE LINE SWITCHOVERS.
2. NEW WATER METERS TO BE LOCATED 2 FEET BEHIND PROPERTY LINE UNLESS DIRECTED OTHERWISE.



MATCHLINE STA PP 18+80, SEE DWG 005-PP-06



OVERALL PROJECT NOTES:

1. ALL NEW PIPE SHALL BE PC350 DIP, RESTRAINED JOINT WITH ZINC COATING.
2. ALL FITTINGS SHALL BE RESTRAINED JOINT OR MJ WITH MEGALUGS. ALL FITTINGS SHALL ALSO BE RESTRAINED WITH THRUST BLOCKS UNLESS SPECIFICALLY NOTED OTHERWISE.
3. VALVES AND SOLID SLEEVES SHALL BE MJ WITH MEGALUGS, UNLESS A SPECIFIC PRE-APPROVED RESTRAINED JOINT SYSTEM IS AVAILABLE TO MATE THE DIP TO THE VALVE.
4. ALL DIP, FITTINGS, VALVES AND SLEEVES SHALL BE WRAPPED WITH V-BIO. WRAP ANY FERROUS EXISTING WATER PIPELINE MATERIAL ENCOUNTERED DURING THE PERFORMANCE OF THIS WORK (AT TIE-INS) AND INSTALL AN ANODE ON TO ANY EXISTING CIP TO WHICH THIS PROJECT MAKES A PERMANENT CONNECTION.
5. THRUST WALLS SHALL USE BACK-TO-BACK MEGALUGS. MEGALUGS ON THRUST WALLS SHALL BE WRAPPED WITH V-BIO POLY WRAP TO PREVENT CONCRETE FROM INTERFERING WITH THE ACTION OF THE WEDGES.
6. VALVES SHALL BE GATE VALVES, MANUFACTURED BY MUELLER OR WATEROUS.
7. NEW WATER METERS TO BE LOCATED 2 FEET BEHIND PROPERTY LINE UNLESS DIRECTED OTHERWISE.
8. CITY TO FURNISH NEW METER BOXES AND METERS.
9. PROTECT-IN-PLACE OR RESET ALL STREET SIGNS ENCOUNTERED WITHIN THE LIMITS OF THE WORK.

SCHEDULE C - CONSTRUCTION SEQUENCING NOTES:

A. CONSTRUCT 12-INCH DIP OFFLINE, NORTHWARDS FROM THE TEST CAP NR. STA 16+50 (5TH STREET) TO THE TEST CAPS AT THE NORTH END OF SCHEDULE C AND INSTALL ALL OF THE REPLACEMENT SERVICE LINES TO THE DESIGNATED NEW METER PIT LOCATIONS, INCLUDING INSTALLATION OF NEW METERS. ALSO CONSTRUCT THE LATERAL WATER MAINS ON 6TH AND 7TH STREETS, UP TO THEIR TEMPORARY TEST CAPS JUST BEYOND THEIR RESPECTIVE LINE VALVES.

B. FILL AND FLUSH THE NEW PIPELINE AND SERVICES VIA THE TEMPORARY SUPPLY CONNECTION TO THE FIRE HYDRANT AT 5TH STREET WHILE FLUSHING OUT OF THE SIDE STREET TEST CAPS AND NEW SERVICE LATERALS. FILL NEW PIPELINE FROM HYDRANT THROUGH MINIMUM 4" TEMPORARY VALVE AND PORT AT TEMPORARY TEST CAP AND USE THIS FOR WATER SUPPLY TO NEW PIPELINE DURING SERVICE LINE SWITCHOVERS.

C. PRESSURE TEST, RE-FLUSH AND BAC-T THE NEW PIPELINE AND SERVICES.

D. CONTINUE TO SUPPLY WATER TO THE NEW PIPELINE VIA THE TEMPORARY HYDRANT CONNECTION WHILE SWITCHING SERVICES OVER TO THE NEW PIPELINE.

E. ONCE ALL SERVICES ARE SWITCHED KEEP THE 12" MAIN CHARGED THROUGH THE TEMPORARY CONNECTION AT STA 16+50 WHILE MAKING CONNECTIONS AT EACH SIDE OF 6TH STREET AND TO THE EXISTING 6" AT NORTH END OF PROJECT.

F. THE FINAL CONNECTION SHALL BE BETWEEN 16+50 AND THE EXISTING TEE AT 16+15. THIS TEE CAN BE DEPRESSURIZED BY CLOSING THE VALVE APPROX. 40' TO THE SOUTH. WHEN MAKING THIS CONNECTION THERE WILL BE NO WATER SERVICE NORTH OF 5TH STREET. COORDINATE THIS WORK WITH THE CITY. MAXIMUM TIME FOR SHUTDOWN IS 4 HOURS. TO MAKE THIS CONNECTION, WORK INCLUDES BUT IS NOT LIMITED TO: REMOVE 12" PLUG IN NORTH END OF EXISTING TEE, REMOVE TEMP TEST CAP AT 16+50 AND INSTALL 12" MJ SOLID SLEEVE, INSTALL RESTRAINED PIPE FROM SOLID SLEEVE TO 12" MJ TEE, REMOVE 8" PIPE FROM BRANCH OF 12x8 TEE AND INSTALL 8" MJ PLUG, INSTALL 8" MJ CAP OVER OPEN END OF 8" PIPE THIS IS BEING ABANDONED.

G. AT THE 6" CONNECTION ON THE NORTH END OF THE PROJECT, ENSURE THE THRUST BLOCK IS CURED TO AT LEAST 3,000 PSI AND BEFORE PRESSURIZING THIS CONNECTION.

COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	DSGN	DR	REVISION	CHK	APVD	BY	APVD
		A SMITH	R PHILLIPS		R SAXTON		A SMITH	

CITY OF FLORENCE CO

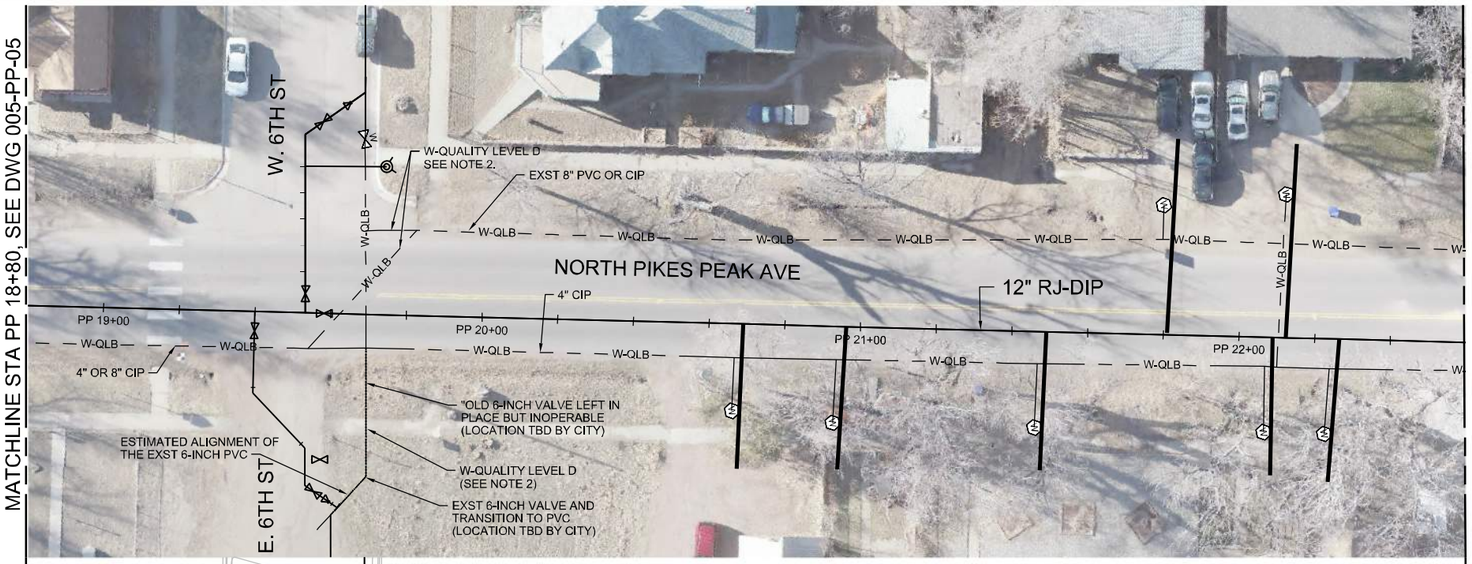
Jacobs

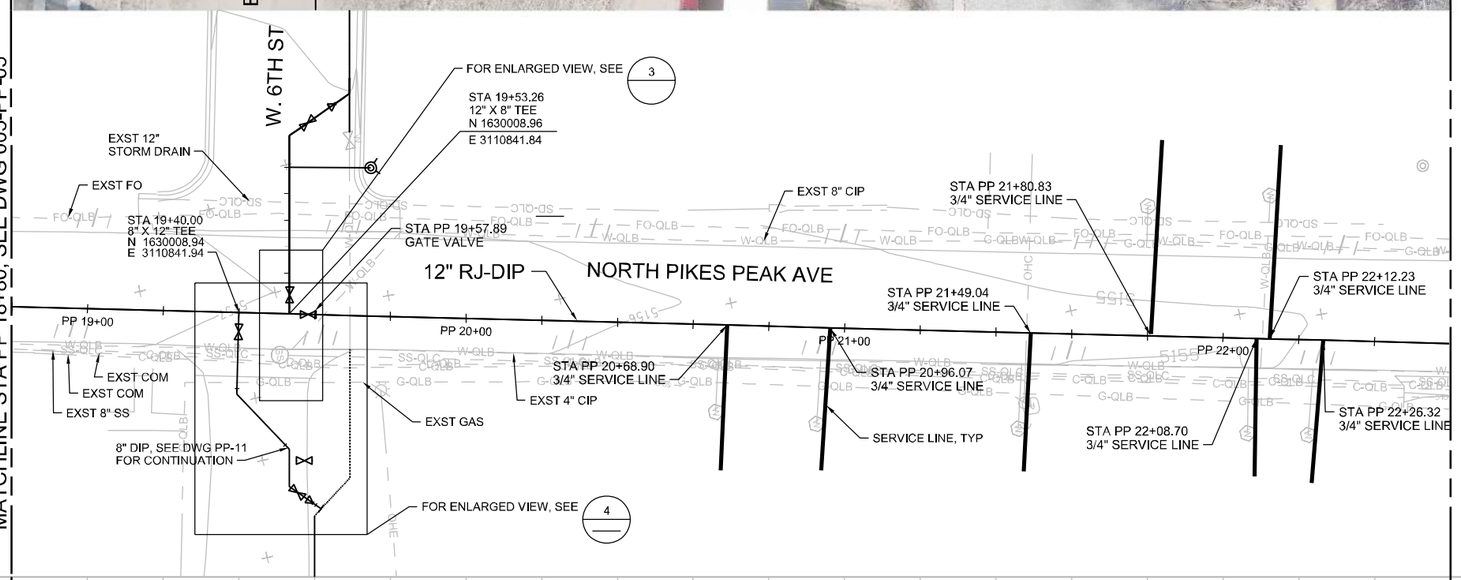
PLAN AND PROFILE
SCHEDULES B AND C

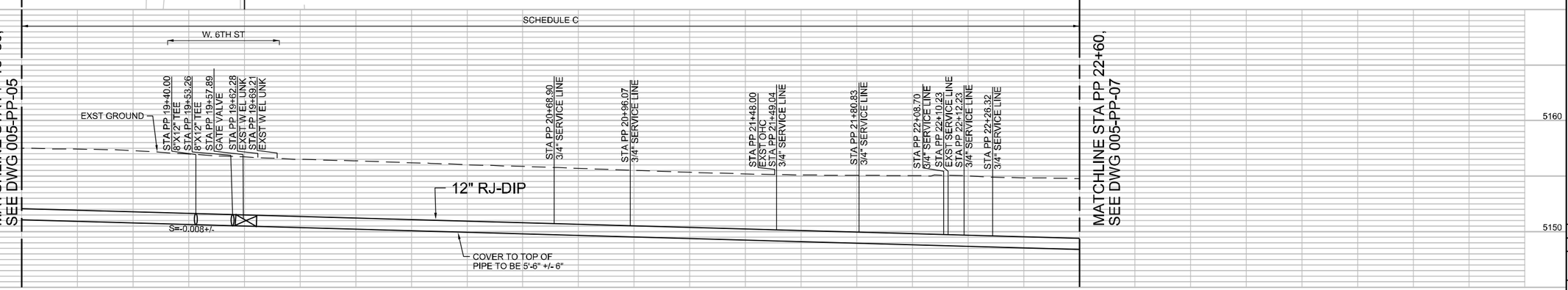
30% DOCUMENT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

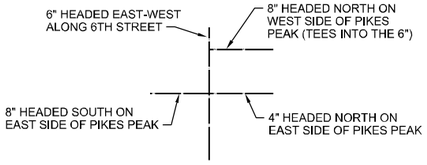
DATE	OCTOBER 2024
PROJ	D3330100
DWG	PP-01
SHEET	of







6TH AND NORTH PIKES PEAK

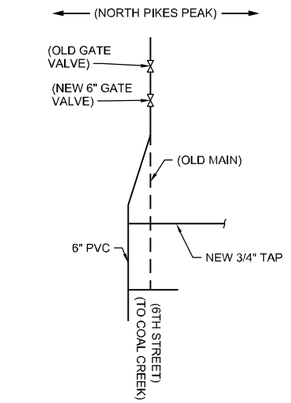


(SOURCE: CITY OF FLORENCE INTERSECTION MAPS)

DETAIL 3

NTS

EAST 6TH & PIKES PEAK



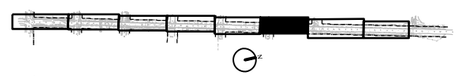
(SOURCE: CITY OF FLORENCE INTERSECTION MAPS)

DETAIL 4

NTS

NOTES:

1. NEW WATER METERS TO BE LOCATED 2 FEET BEHIND PROPERTY LINE UNLESS DIRECTED OTHERWISE.
2. POST SURVEY OF WATER LINE MARKINGS, CITY ADVISED ENGINEER THAT THIS REVSION TO THE EXISTING WATER LINE MARKINGS IS APPROPRIATE. (DIAGONAL NOT BELIEVED ACCURATE BUT INCLUDED AS THIS IS WHAT WAS ORIGINALLY MARKED BY THE CITY DURING SURVEYING.)



KEYMAP

COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	DSGN
REVISION	A SMITH	DR
CHK	R PHILLIPS	
R SAXTON	APVD	
A SMITH	APVD	BY

Jacobs

CITY OF FLORENCE CO

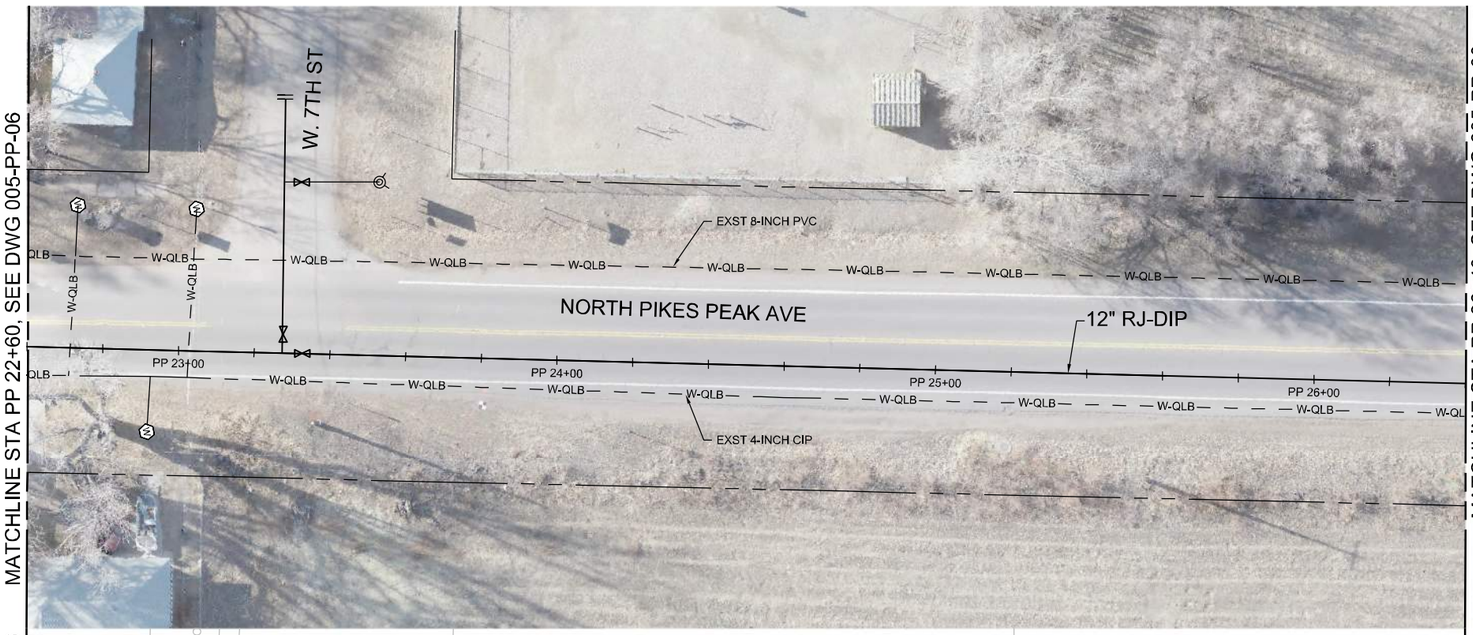
PLAN AND PROFILE
SCHEDULE C

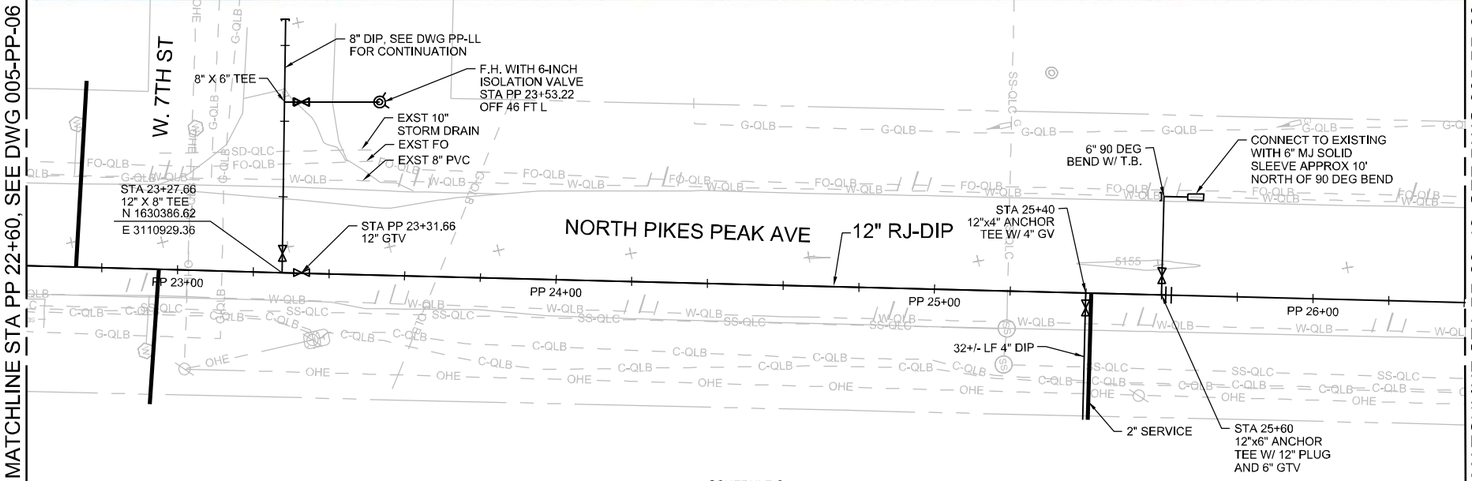
30% DOCUMENT

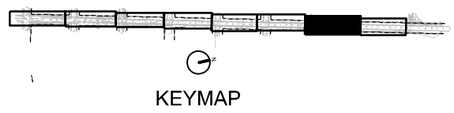
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

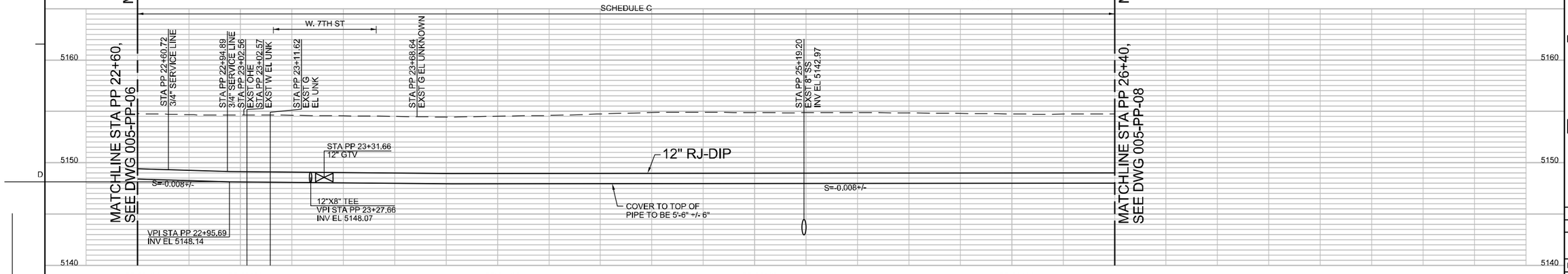
DATE	OCTOBER 2024
PROJ	D3330100
DWG	PP-02
SHEET	of

$PWURL $PWPATH FILENAME: 005-PP-02_SchC.dgn PLOT DATE: 2024\10\07 PLOT TIME: 10:03:30 AM









COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

N

0 20 40 60
Scale In Feet

NO.	DATE	DSGN	DR	REVISION	CHK	BY	APVD
		A SMITH	A SMITH	R PHILLIPS	R SAXTON	A SMITH	APVD

CITY OF FLORENCE

Jacobs

PLAN AND PROFILE
SCHEDULE C

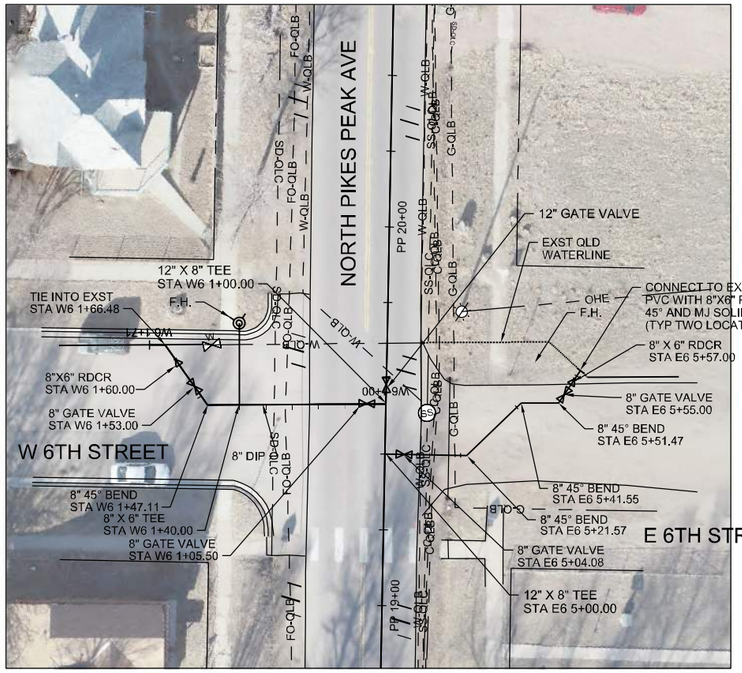
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	OCTOBER 2024
PROJ	D3330100
DWG	PP-03
SHEET	of

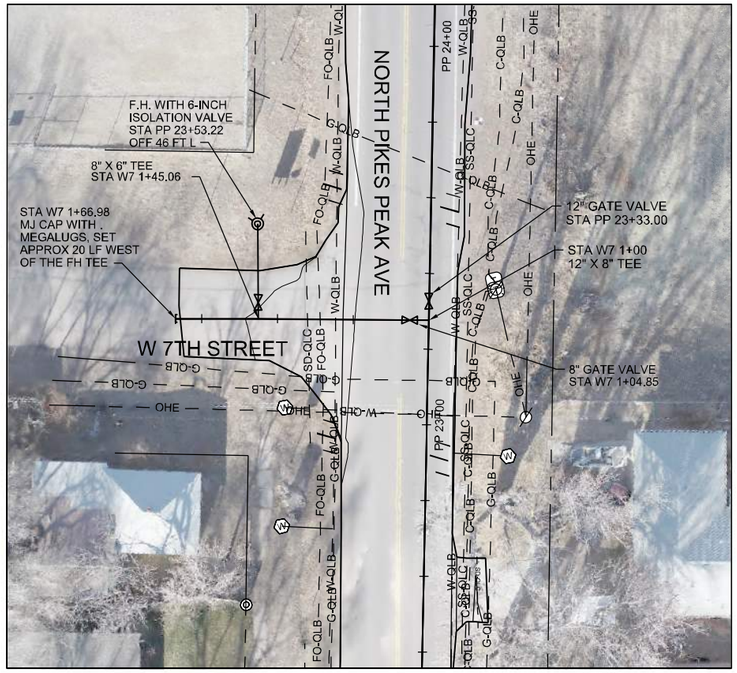
30% DOCUMENT

LATERAL PIPELINE NOTES:

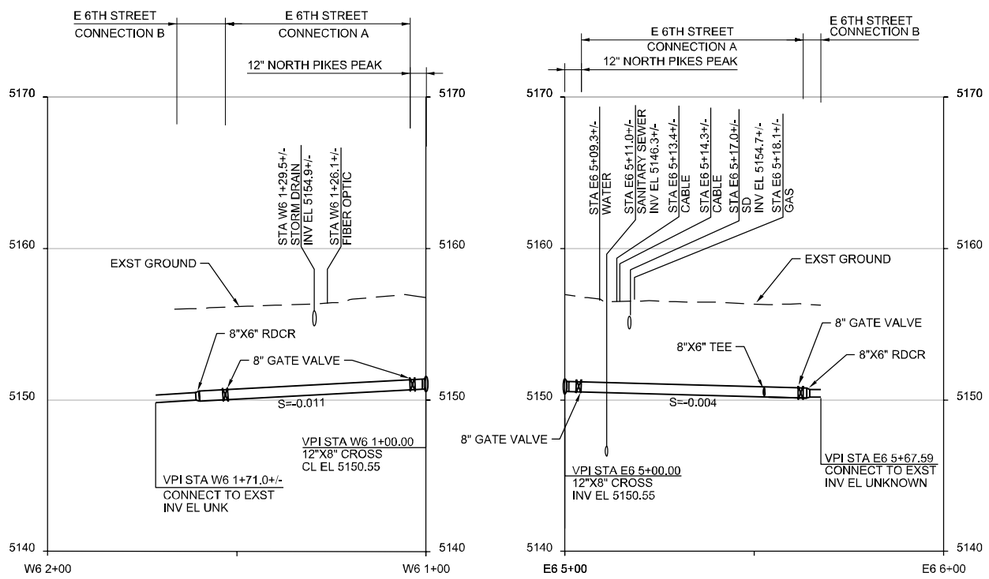
1. PRIOR TO INSTALLING NEW PIPELINES POTHOLE ALL EXISTING WATER MAINS AND OTHER PERTINENT BURIED UTILITIES IN THE VICINITY OF THE LATERAL CONNECTIONS TO VERIFY APPROPRIATE PROFILE OF THE NEW WORK.
2. COMPLETE TESTING, DISINFECTION, FLUSHING AND BACTERIOLOGICAL TEST OF WORK WITHIN NORTH PIKES PEAK AND LATERALS UP TO THE TERMINAL GATE VALVES PRIOR TO PERFORMING THE CONNECTION WORK IN SIDE STREETS.
3. TEST AGAINST TERMINAL GATE VALVES, BUT PROVIDE TEMPORARY SHORT SPOOL AND TAPPED TEST CAP BEYOND EACH TERMINAL GATE VALVE DURING TESTING TAPPED CAP TO BE FURNISHED WITH MIN 2" BALL VALVE FOR FLUSHING AND/OR FILLING PIPELINE.



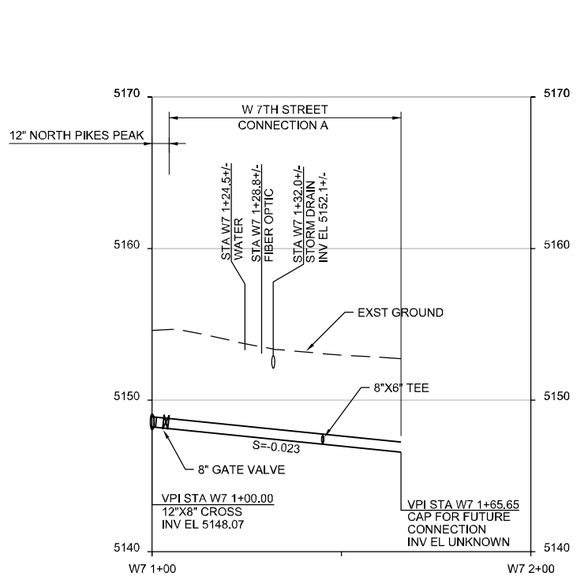
6TH STREET PLAN
1"=20'-0"



7TH STREET PLAN
1"=20'-0"



6TH STREET PROFILES
1"=20'-0"



7TH STREET PROFILE
1"=20'-0"

COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	DR	REVISION	CHK	APVD	BY	APVD
DSGN	A SMITH	A SMITH	R PHILLIPS	R SAXTON		A SMITH	

Jacobs

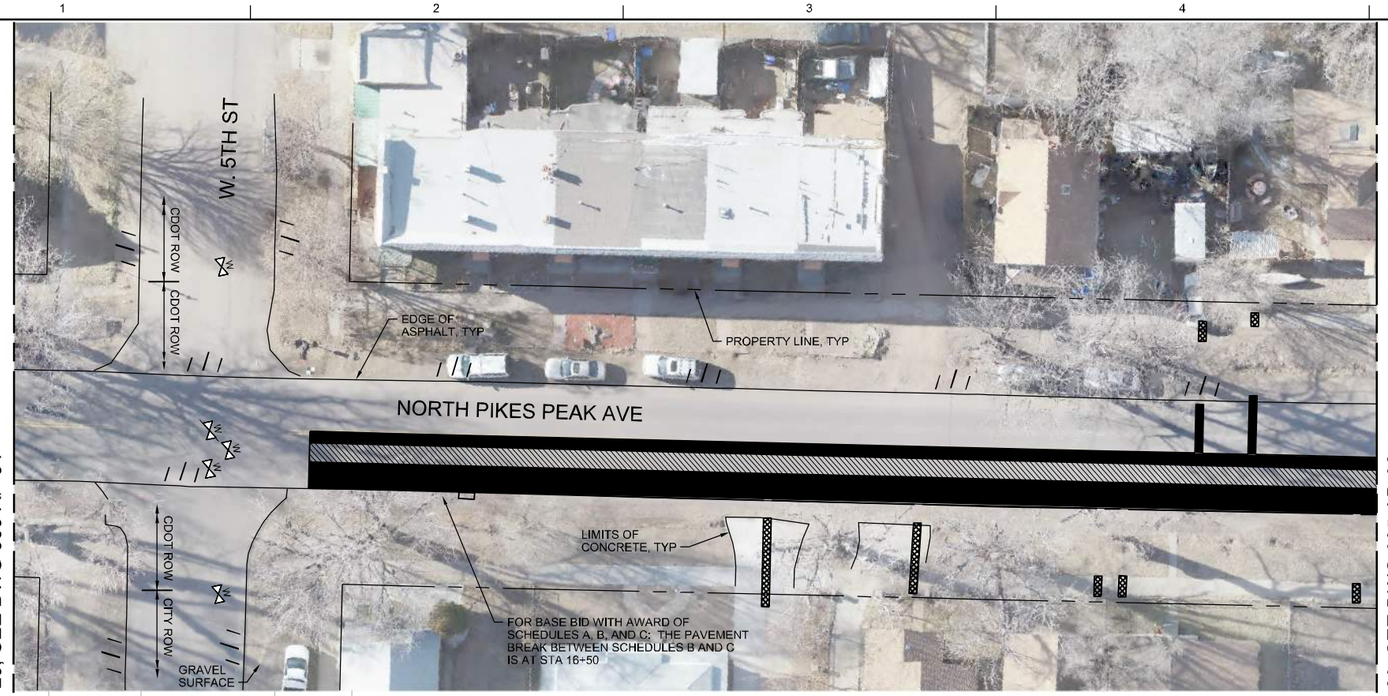
CITY OF FLORENCE CO FLORENCE

EAST AND WEST LATERAL
AT 6TH AND 7TH STREET

30% DOCUMENT

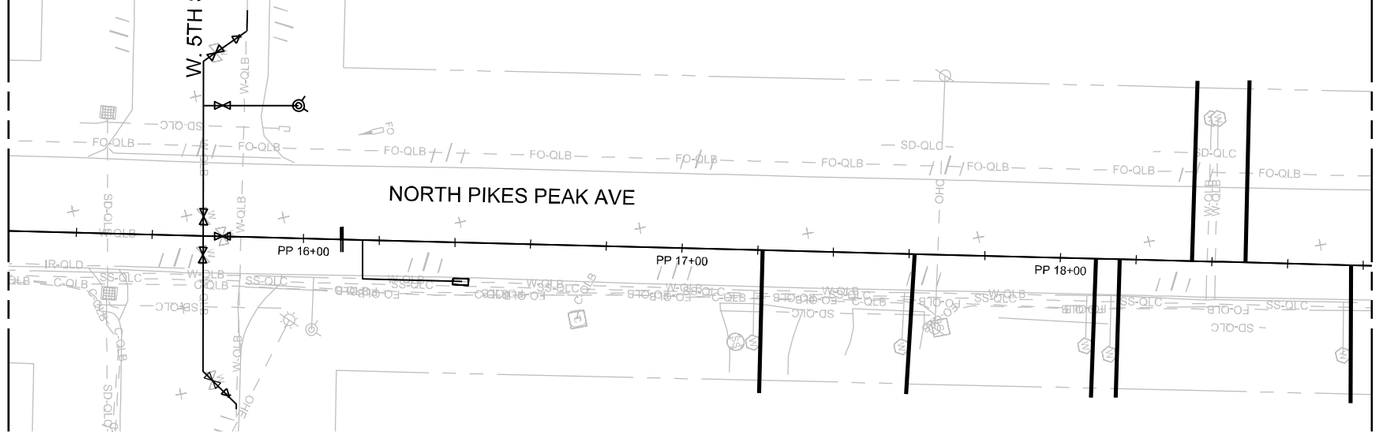
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

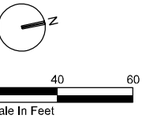
DATE	OCTOBER 2024
PROJ	D3330100
DWG	PP-04
SHEET	of



MATCHLINE STA PP 15+20, SEE DWG 005-AP-04

MATCHLINE STA PP 18+80, SEE DWG 005-AP-06





NOTE:

1. PAVEMENT MARKINGS SHALL BE RESTORED AND SHALL MEET CDOT SPECIFICATIONS.

CONCRETE SIDEWALK REPLACEMENT

2" MILL AND OVERLAY EAST SIDE OF NORTH PIKES PEAK AVENUE CENTERLINE TO EDGE OF PAVEMENT

5' WIDE T-PATCH CENTER ON CENTERLINE OF NEW WATERLINE

KEYMAP

COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	DR	CHK	BY
DSGN	A SMITH		R PHILLIPS	R SAXTON	APVD A SMITH

Jacobs

CITY OF FLORENCE CO FLORENCE

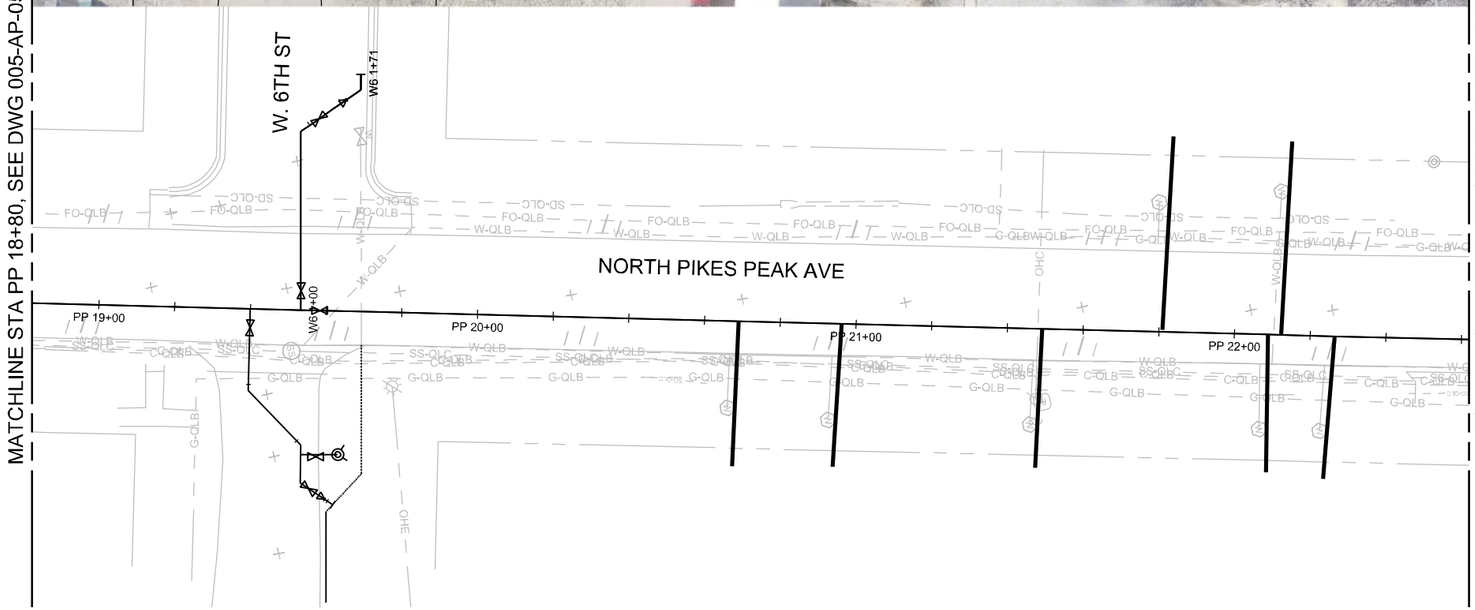
ASPHALT AND PAVEMENT PLAN 5 SCHEDULE B AND C

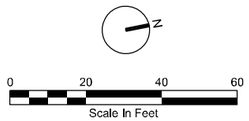
30% DOCUMENT

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	OCTOBER 2024
PROJ	D3330100
DWG	AP-01
SHEET	of





NOTE:

1. PAVEMENT MARKINGS SHALL BE RESTORED AND SHALL MEET CDOT SPECIFICATIONS.

2" MILL AND OVERLAY EAST SIDE OF NORTH PIKES PEAK AVENUE CENTERLINE TO EDGE OF PAVEMENT

5' WIDE T-PATCH CENTER ON CENTERLINE OF NEW WATERLINE

KEYMAP

COLORADO LICENSED
JOHN EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	CHK	BY	APVD
DSGN	A SMITH	DR A SMITH	R PHILLIPS	R SAXTON	APVD A SMITH

CITY OF FLORENCE CO FLORENCE

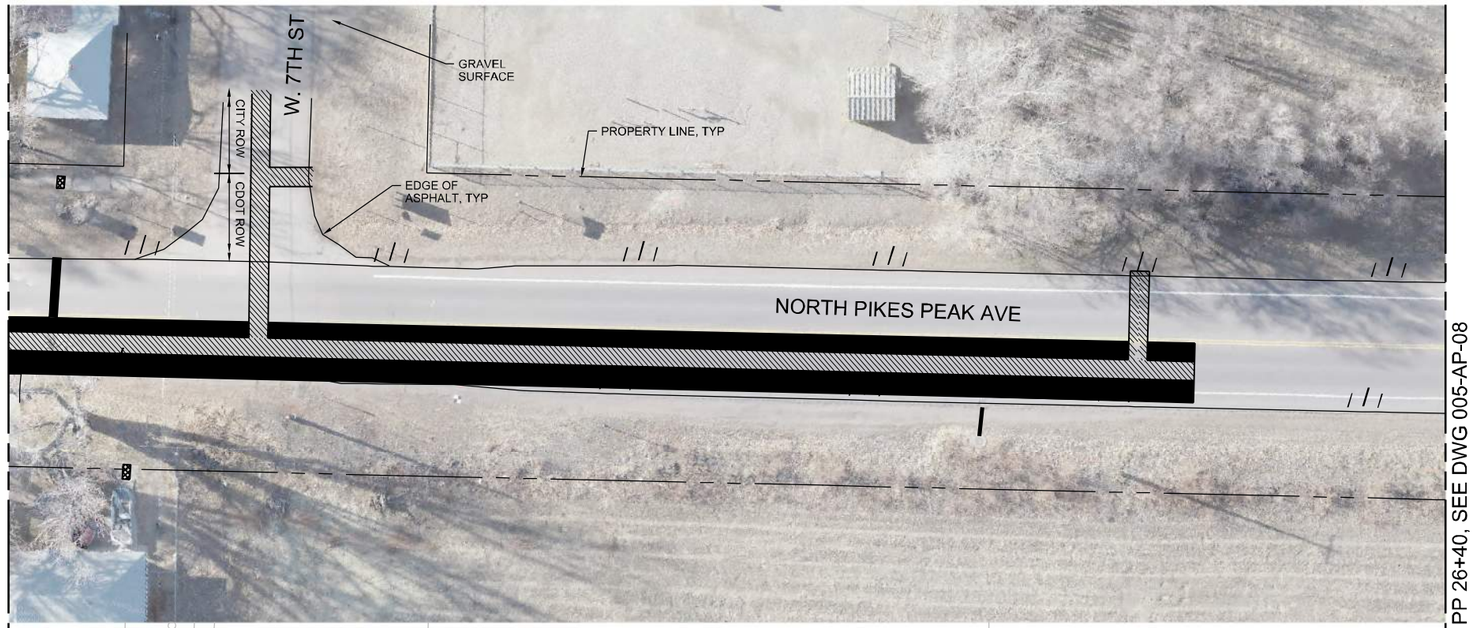
Jacobs

ASPHALT AND PAVEMENT PLAN 6
SCHEDULE C

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

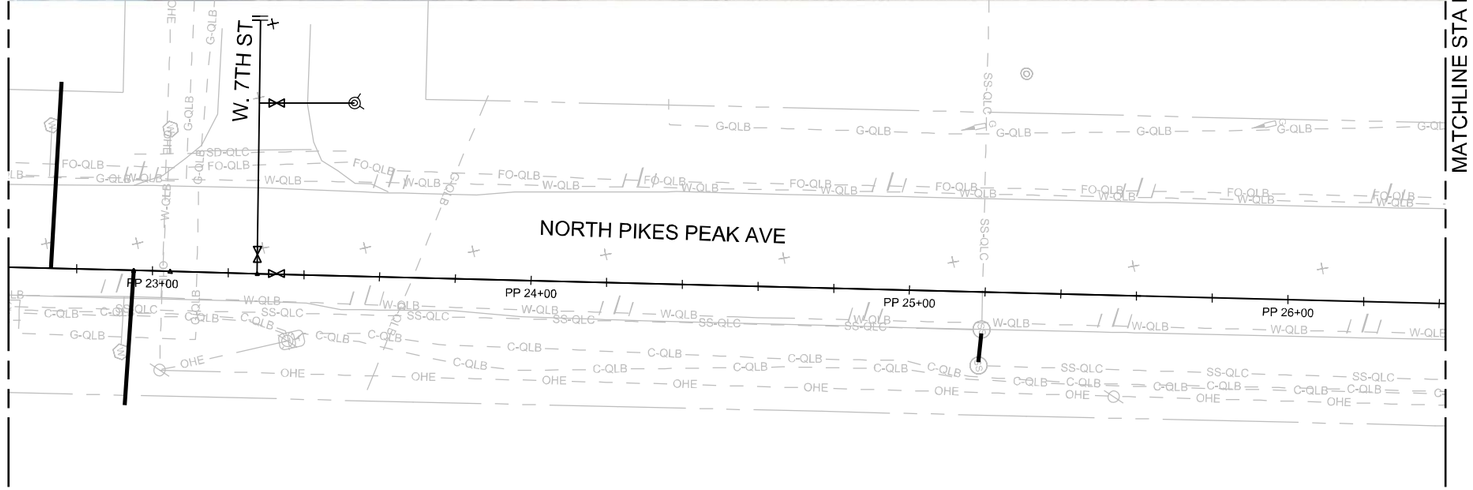
DATE	OCTOBER 2024
PROJ	D3330100
DWG	AP-02
SHEET	of

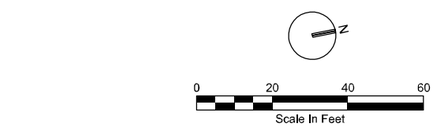
30% DOCUMENT



MATCHLINE STA PP 22+60, SEE DWG 005-AP-06

MATCHLINE STA PP 26+40, SEE DWG 005-AP-08





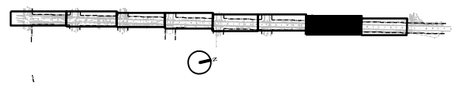
NOTE:

1. PAVEMENT MARKINGS SHALL BE RESTORED AND SHALL MEET CDOT SPECIFICATIONS.

CONCRETE SIDEWALK REPLACEMENT

2" MILL AND OVERLAY EAST SIDE OF NORTH PIKES PEAK AVENUE CENTERLINE TO EDGE OF PAVEMENT

5' WIDE T-PATCH CENTER ON CENTERLINE OF NEW WATERLINE



KEYMAP

COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	DR	REVISION	CHK	BY	APVD
DSGN	A SMITH	A SMITH	R PHILLIPS	R SAXTON	A SMITH	APVD

CITY OF FLORENCE CO

Jacobs

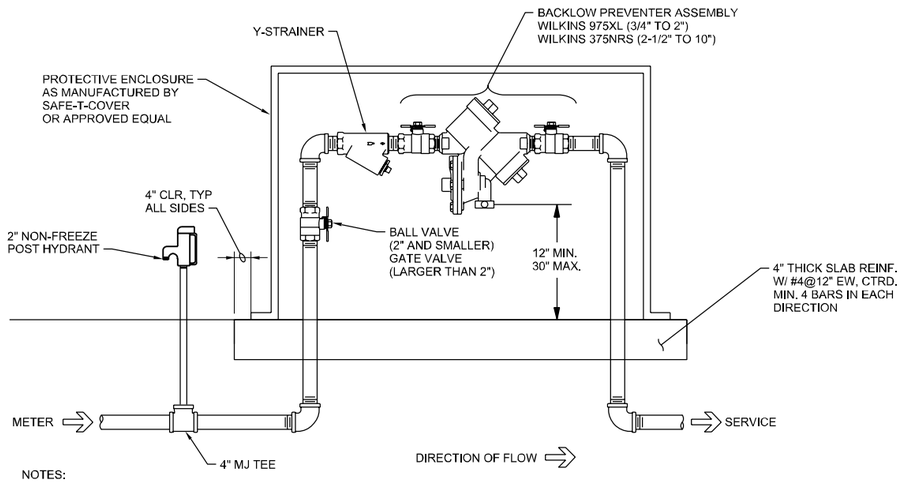
ASPHALT AND PAVEMENT PLAN 7
SCHEDULE C

30% DOCUMENT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	OCTOBER 2024
PROJ	D3330100
DWG	AP-03
SHEET	of

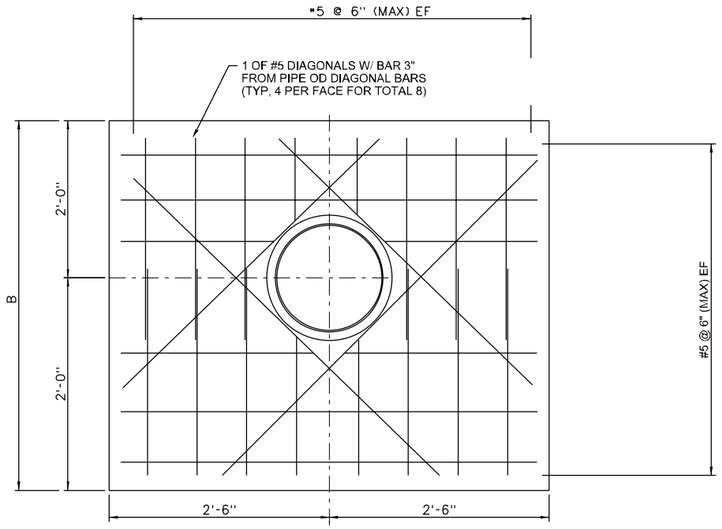
$PWURL $PWPATH FILENAME: 005-AP-03_SchC.dgn PLOT DATE: 2024\10\07 PLOT TIME: 1:23:05 PM



NOTES:

1. REPLACE LANDSCAPING TO MATCH EXISTING AFTER INSTALLATION OF BACKFLOW PREVENTER AND METER.
2. USE DI-ELECTRIC BREAK WHERE DISSIMILAR METALS ARE CONNECTED.
3. PROVIDE MIN 10 CUBIC FEET 3/4-INCH CRUSHED GRAVEL FOR DRAINAGE. WRAP GRAVEL WITH FILTER FABRIC.
4. PROVIDE MIN 4 FEET OF COVER OVER PIPE.

1 BACKFLOW PREVENTER DETAIL
NTS

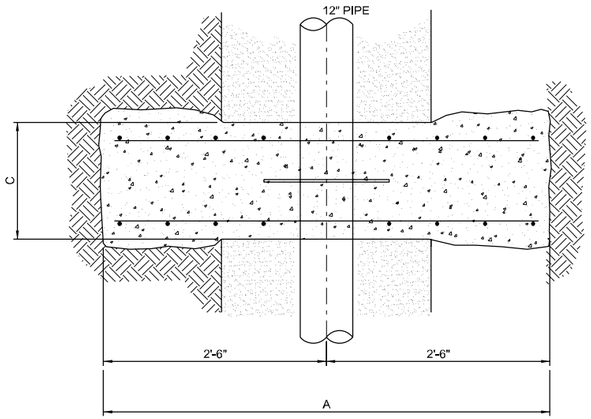


WALL ELEVATION

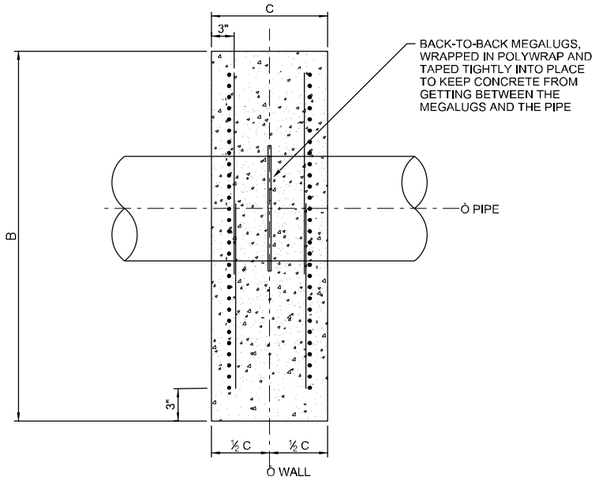
		CONCRETE THRUST WALL DIMENSIONS		
	PIPE (NOMINAL)	WIDTH A	DEPTH B	THK C
	12"	5'-0"	4'-0"	1'-6"

NOTES:

1. THRUST WALL DESIGN PIPELINE WORKING PRESSURE: 125 PSI.
2. THRUST WALL DESIGN PIPELINE TEST PRESSURE: 200 PSI
3. ALLOWABLE SOIL BEARING CAPACITY, INCLUDING SAFETY FACTOR: 1500 PSF.
4. CONCRETE SHALL BE CLASS B (f'c = 4,500psi) PER CDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION (2017), SECTION 601. REINFORCING SHALL BE A615 GRADE 60 (fy = 60,000psi) PER CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2017), SECTION 602.
5. CONCRETE COVER OVER REBAR SHALL BE 3".
6. BARS ADJACENT TO PIPE SHALL BE 2-INCHES FROM PIPE OD.



CONCRETE THRUST WALL FOR
12-INCH DUCTILE IRON PIPELINE



WALL SECTION

2 THRUST WALL DETAIL
NTS

COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DSGN	DATE	BY	REVISION	CHK	APVD
	A SMITH	A SMITH	A SMITH		R PHILLIPS	R SAXTON

CITY OF FLORENCE COLORADO

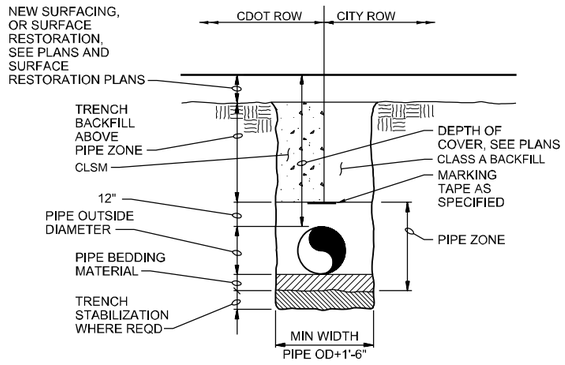
Jacobs

DETAILS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	OCTOBER 2024
PROJ	D3330100
DWG	DT-01
SHEET	of

30% DOCUMENT



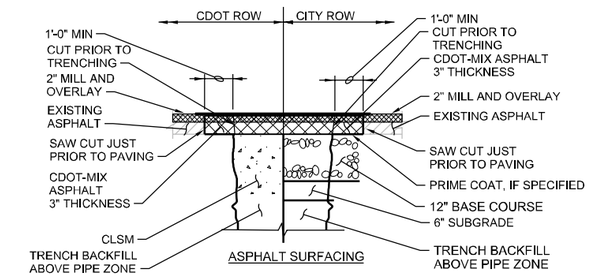
NOTES:

1. MINIMUM COVER OVER PIPE TO BE 5' BELOW GRADE.
2. FOR TRENCHES IN CITY OF FLORENCE ROW, COMPACTED NATIVE BACKFILL TO 90% STD PROCTOR DENSITY IN NON-DRIVING SURFACES AND 95% UNDER PAVEMENT. FOR TRENCHES WITHIN CDOT ROW, TRENCH TO BE BACKFILLED WITH CDOT APPROVED FLOW FILL MIX.
3. TO BE PLACED WITH MINIMUM 2500 PSI CONCRETE FROM TRENCH BOTTOM TO PIPE SPRINGLINE.
4. PROVIDE MARKER TAPE AND TRACER WIRE ABOVE PIPE PER SPECIFICATIONS.
5. PROTECT EXISTING UTILITIES AND MAINTAIN SERVICE DURING CONSTRUCTION OF ROADWAY AND UTILITIES.
6. COMPACTION OF BACKFILL TO BE VERIFIED BY CONTRACTED INDEPENDENT TESTING FIRM.

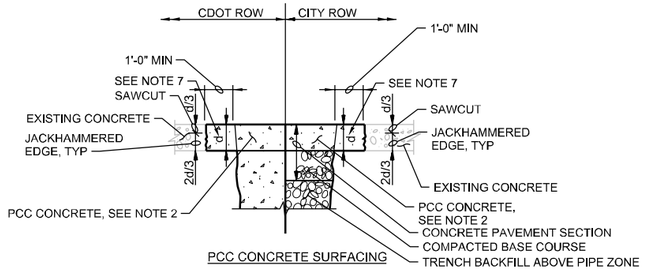
TYPICAL TRENCH

NTS

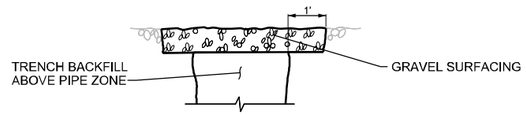
3123-110



ASPHALT SURFACING



PCC CONCRETE SURFACING



GRAVEL SURFACING

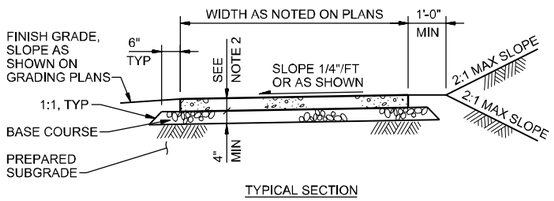
NOTES:

1. IF LOCATION OF TRENCH SAW CUT IS WITHIN 2 FEET OF AN EXISTING JOINT OR EDGE OF CONCRETE, REPLACE ENTIRE CONCRETE TO THE JOINT OR EDGE.
2. CONSTRUCT JOINTS ACROSS NEW CONCRETE TO MATCH EXISTING JOINT TYPES AND LOCATIONS.
3. PERMANENTLY REPLACE ALL PAVEMENT SURFACES, STRIPING, AND TRAFFIC CONTROLS PRIOR TO REMOVING DETOURS.
4. HOT ASPHALTIC CONCRETE PAVEMENT TO BE PLACED IN TWO LIFTS. A TACK COAT TO BE PLACED BETWEEN LIFTS AND ALONG ALL VERTICAL SURFACES OF EXISTING PAVEMENT.
5. SLOPE WALLS OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY AND IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS.
6. WHERE THE EDGE LINE OF THE PAVEMENT REMOVED FOR THE PIPELINE TRENCH EXCAVATION COMES WITHIN FIVE (5) FEET OF THE OUTER EDGE OF THE PAVEMENT AGAINST GUTTER OR CURB FACE, THE EXISTING PAVING TO BE REMOVED TO THE GUTTER LINE OR CURB FACE. ALL ASSOCIATED COST FOR THIS REQUIREMENT TO BE INCLUDED IN THE BID.
7. d= 4" MIN THICKNESS PCC CONCRETE, MATCH EXISTING IF THICKER.

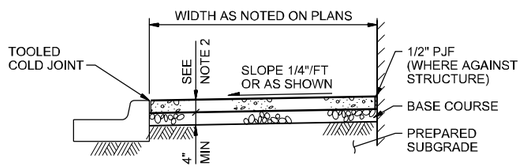
SURFACE RESTORATION

NTS

3123-115



TYPICAL SECTION



TYPICAL CURB SECTION

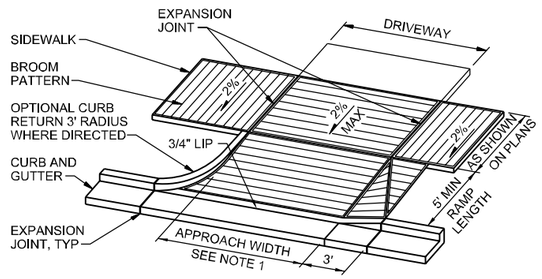
NOTES:

1. SIDEWALKS 8 FEET AND WIDER SHALL HAVE A LONGITUDINAL CONTRACTION JOINT AT THE MIDPOINT.
2. CONCRETE DEPTH FOR STANDARD SIDEWALKS SHALL BE NOMINAL 4" MINIMUM, THICKNESS IN DRIVEWAY SHALL BE 6" MINIMUM.

TYPICAL CONCRETE SIDEWALK

NTS

3123-220



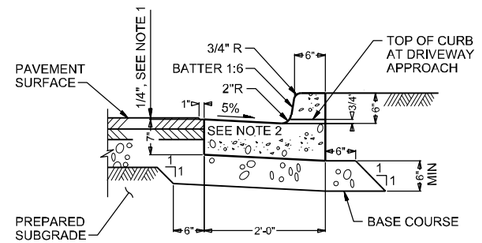
NOTES:

1. APPROACH WIDTH SHALL BE AS SHOWN ON THE PLANS. WHERE IT IS NOT SPECIFIED, THE WIDTH SHALL BE 12 FEET MINIMUM OR AS DIRECTED BY THE ENGINEER.
2. ALL CONCRETE SHALL BE PLACED ON 4" THICK BASE COURSE, UNLESS SHOWN OTHERWISE.
3. ADD CONTRACTION OR COLD JOINT IN CENTER OF APPROACH AND CURB AND GUTTER WHEN APPROACH WIDTH EXCEEDS 20 FEET.
4. APPROACH AND SIDEWALK THICKNESS BETWEEN GUTTER AND DRIVEWAY SHALL BE 6" MINIMUM, UNLESS SHOWN OTHERWISE.

DRIVEWAY APPROACH-SETBACK SIDEWALK

NTS

3213-231



NOTE:

1. 1/4" PAVEMENT LIP ON LOW SIDE GUTTERS ONLY.
2. WHEN USED ON THE HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE SLOPE OF THE ADJACENT PAVEMENT, UNLESS OTHERWISE DETAILED ON THE PLANS.

CONCRETE CURB AND GUTTER

NTS

3216-310

COLORADO LICENSED
RYAN EDWARD HILL
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DSGN	DATE	REVISION	CHK	BY	APVD
	DR	A SMITH	R PHILLIPS	R SAXTON	A SMITH	A SMITH

Jacobs

CITY OF FLORENCE CO FLORENCE

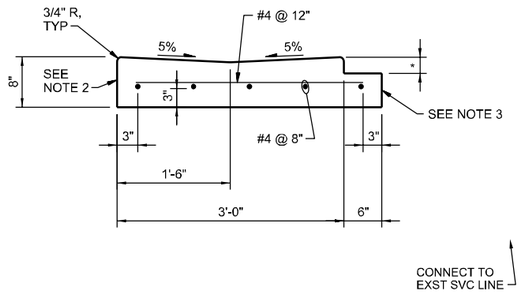
STANDARD DETAILS

30% DOCUMENT

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	OCTOBER 2024
PROJ	D3330100
DWG	DT-02
SHEET	of



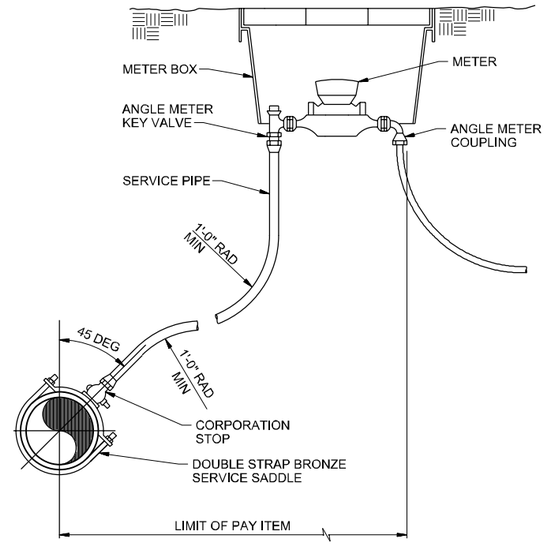
NOTES:

1. * = THICKNESS OF ASPHALT PAVING.
2. PLACE PREMOLDED FILLER AGAINST VERTICAL FACE WHERE VALLEY GUTTER ABUTS CONCRETE.
3. CONSTRUCT 6" x * DEPRESSED BENCH WHERE VALLEY GUTTER ABUTS ASPHALT PAVEMENT.
4. WHEN BENCH IS NOT REQUIRED, CONSTRUCT 1" BATTER ON VERTICAL FACE.
5. PROVIDE 3" MINIMUM COVER ON ALL REINFORCING STEEL.

CONCRETE VALLEY GUTTER

NTS

3216-330

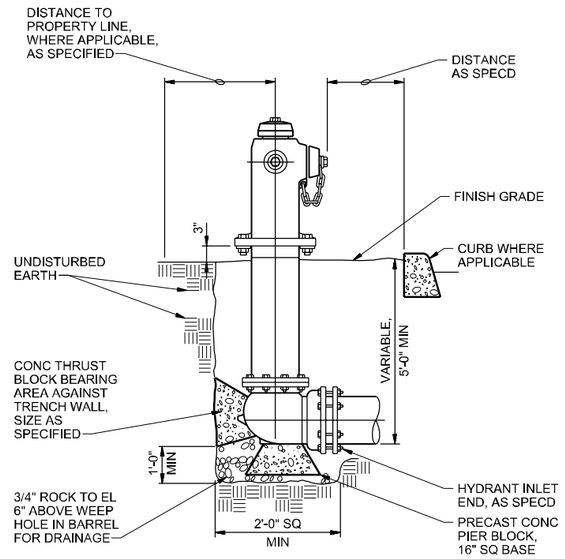


1. MATCH EXIST SERVICE LINE SIZE WITH CTS PE PIPE.
2. REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION.
3. METER AND DOME PROVIDED BY CITY AND INSTALLED BY CONTRACTOR, PIT, SETTER AND ALL OTHER ITEMS SHOWN PROVIDED AND INSTALLED BY CONTRACTOR. SETTER TO INCLUDE METER STOP.

WATER SERVICE INSTALLATION

NTS

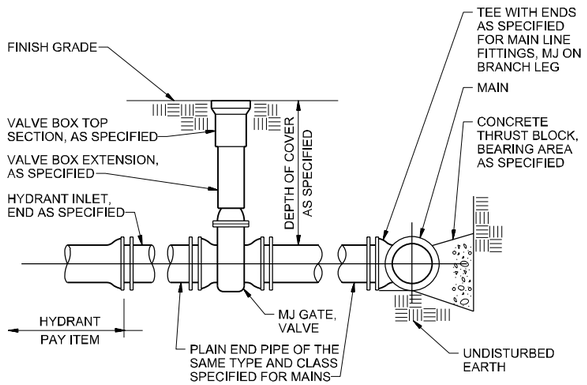
3311-820



HYDRANT

NTS

3312-950



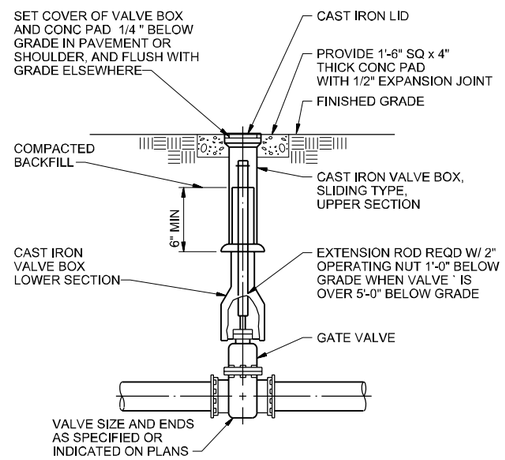
NOTES:

1. AUXILIARY VALVE AND PIPE SHALL BE OF SAME SIZE AS HYDRANT BOTTOM CONNECTION.
2. THRUST TIE PLAIN END PIPE SECTION BETWEEN AUXILIARY VALVE AND TEE ON MAIN LINE AS SPECIFIED.

HYDRANT CONNECTION TYPE C

NTS

3312-953



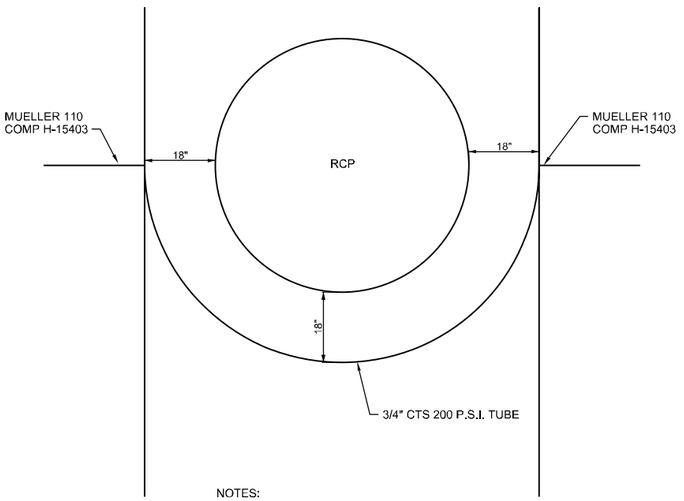
NOTES:

1. CARE TO BE TAKEN WHEN INSTALLING VALVES ON LINES TO ASSURE PROPER SUPPORT OF THE VALVES.
2. 3/4" WASHED ROCK TO BE PLACED UNDER GATE VALVES TO PROVIDE PROPER SUPPORT AS SHOWN.
3. VALVES TO NOT BE PLACED IN CONCRETE CROSS PANS.
4. REFER TO CDOT PAVING REQUIREMENTS.
5. ELEVATION FOR TOP OF COVER, PLACED IN PAVEMENT, TO BE SET IN ACCORDANCE WITH CITY AND CDOT REQUIREMENTS.

BURIED GATE VALVE BOX

NTS

4027-640



NOTES:

1. 18-INCH MIN CLEARANCE BETWEEN PIPES.
2. USE 3"4" CTS 200 P.S.I. TUBING.
3. MUELLER 110 COMPRESSION COUPLING H 15403 3/4 CTS STIFFENERS.

CITY OF FLORENCE 3/4" SERVICE LINE STORM SEWER CROSSING

NTS

4027-640

COLORADO LICENSED
JASON EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	DSGN	DR	REVISION	CHK	BY	APVD
		A SMITH	R PHILLIPS		R SAXTON	A SMITH	

Jacobs

CITY OF FLORENCE

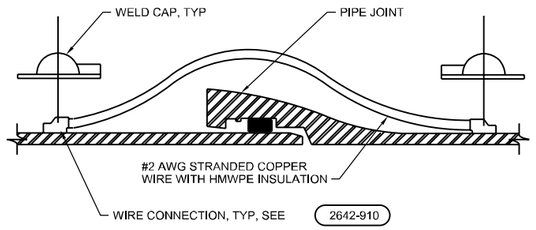
STANDARD DETAILS

30% DOCUMENT

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

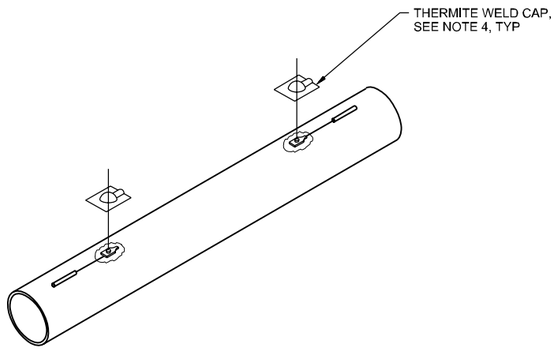
DATE	OCTOBER 2024
PROJ	D3330100
DWG	DT-03
SHEET	of



NOTE:

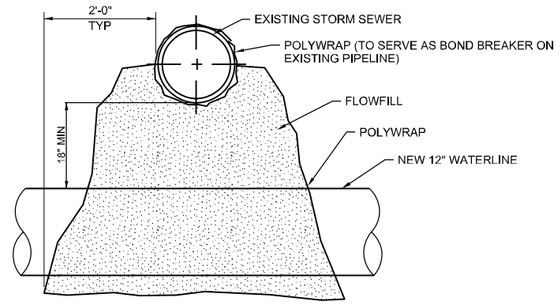
1. ONLY APPLIES BETWEEN FITTING AND ADJACENT PIPE. PIPE TO-PIPE JOINT BONDING IS NOT REQUIRED.
2. ONLY NECESSARY TO BOND TO VALVE OR FITTING FROM ONE OF THE CONNECTING PIPES.

2642-840 MJ OR VALVE TO JOINT BOND



NOTES:

1. COPPER SLEEVE REQUIRED FOR THERMITE WELDING OF #10 AWG AND SMALLER WIRE.
2. USE SEVERAL ROUNDS OF TAPE AROUND ENTIRE PIPE CURCUMFERENCE TO SECURE THE ANODES ON THE PIPE CROWN, UNDER THE V-BIO POLY WRAP.
3. WELDER AND CARTRIDGE SIZE VARIES ACCORDING TO WIRE SIZE AND PIPE MATERIAL, CONSULT WELDER MANUFACTURER FOR RECOMMENDED WELDER AND CARTRIDGE.
4. FIELD APPLY THERMITE WELD CAP.
5. PROVIDE A TOTAL OF 66# OF ZINC ANODE ON EACH STICK OF DIP. MOUNT 2 OF 33# ANODES AND ADD A BOND TO EACH ADJACENT VALVE/ FITTING/SOLID SLEEVE. WRAP ALL DIP WITH V-BID. (EXCEPT SEE NOTE 7.)
6. INSTALL ANODES AT APPROXIMATELY 1/3 AND 2/3 THE LENGTH OF EACH PIPE SEGMENT.
7. PROVIDE ON ADDITIONAL ANODE ON EACH PIPE SEGMENT THAT CONNECTS TO EXISTING CAST IRON OR DUCTILE IRON PIPE.



CITY OF FLORENCE STORM SEWER CROSSING

COLORADO LICENSED
JOHN EDWARD SMITH
0050739
10/8/2024
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APVD
DSGN	A SMITH	DR R PHILLIPS	CHK R SAXTON	APVD A SMITH

Jacobs

CITY OF FLORENCE

STANDARD DETAILS

30% DOCUMENT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	OCTOBER 2024
PROJ	D3330100
DWG	DT-04
SHEET	of