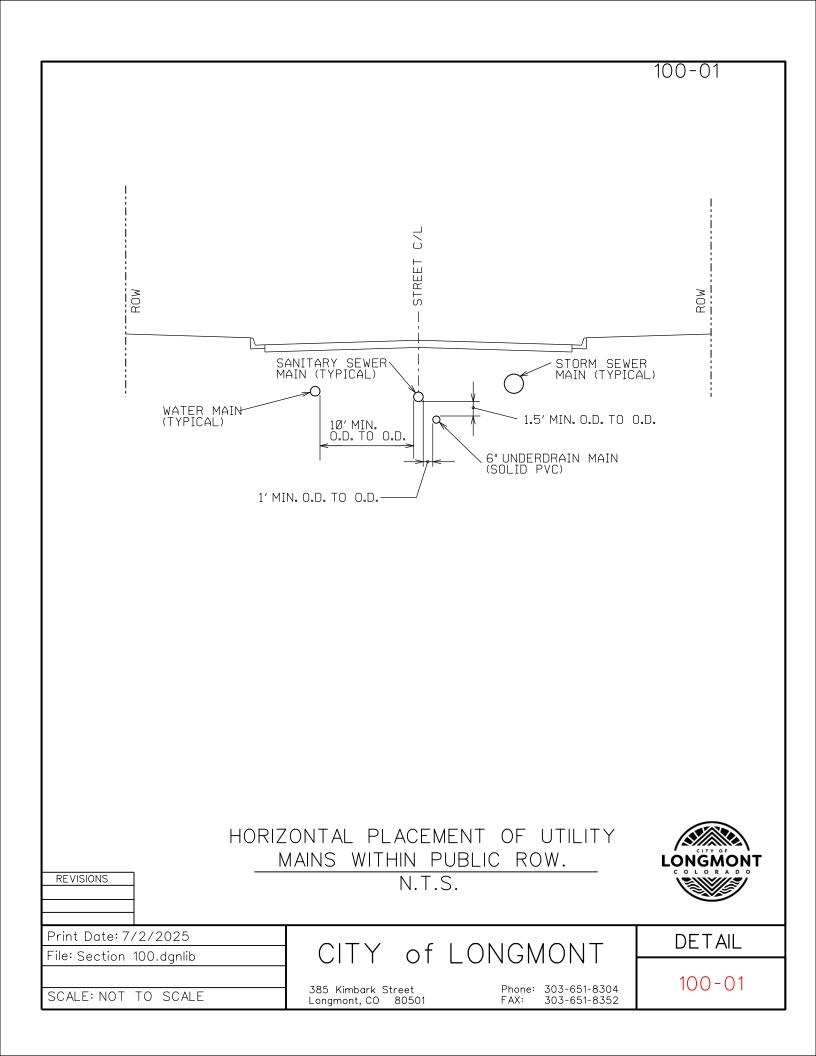
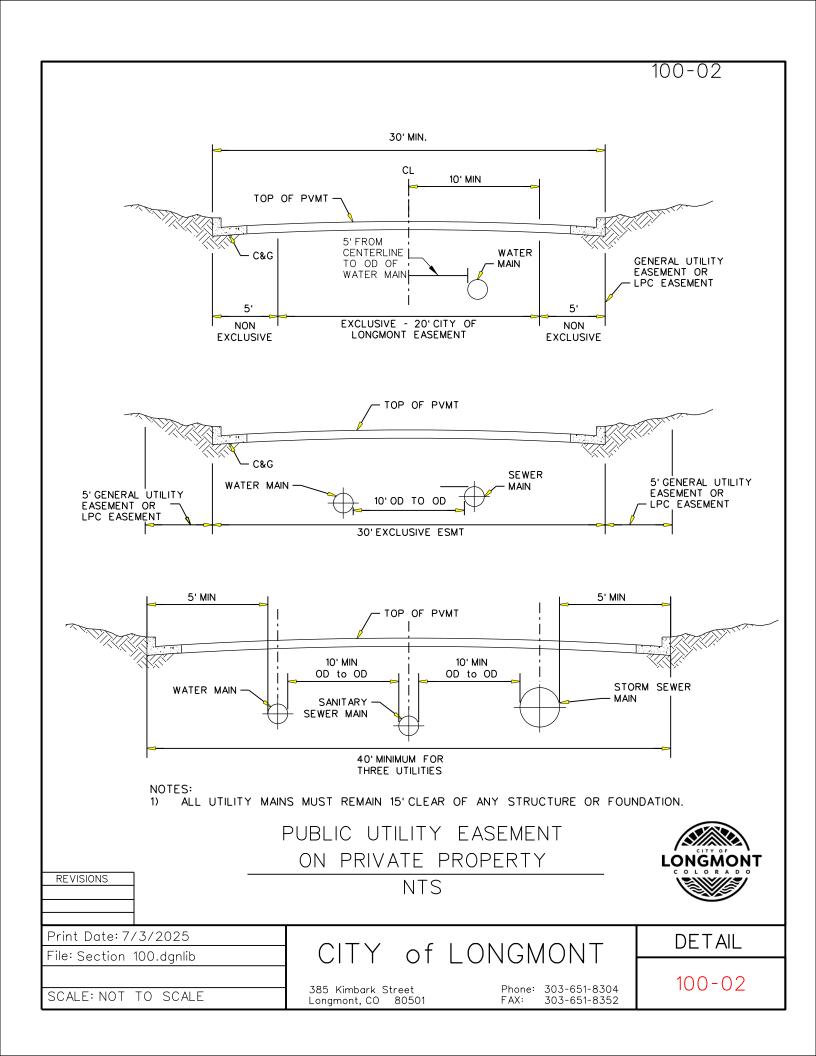
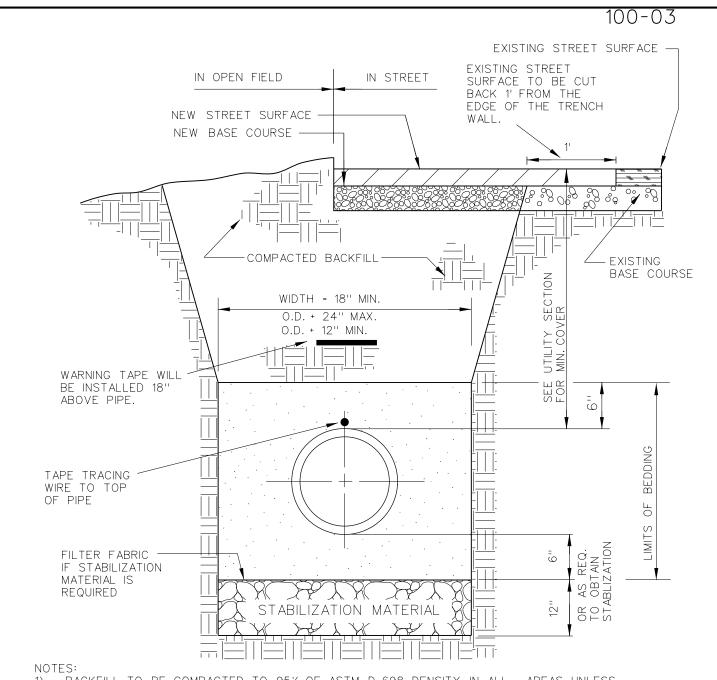
SECTION 100 – GENERAL REQUIREMENTS INDEX OF DETAILS

100-01	PLACEMENT OF UTILITY MAINS WITHIN PUBLIC ROW
100-02	PUBLIC UTILITY EASEMENT ON PRIVATE PROPERTY
100-03	WET UTILITY TRENCH
100-04	TRENCH LIMITS FOR ASPHALT REMOVAL AND PATCH-BACK
100-05	CONCRETE PAVEMENT PATCH-BACK
100-06	TYPICAL ASPHALT AND CONCRETE TRENCH PATCH-BACK
100-07	PIPE CROSSING SUPPORT PAD
100-08	UTILITY CROSSING
100-09	CUT-OFF WALL
100-10	DITCH CROSSING
100-11	MARKER POST
100-12	TYPICAL RESIDENTIAL LOT GRADING DETAIL
100-13	TRACER WIRE SAMPLE SANITARY PLAN
100-14	TRACER WIRE SAMPLE STORM SEWER PLAN
100-15A	TRACER WIRE AT SEWER LATERAL DETAIL
100-15B	TRACER WIRE AT SEWER LATERAL DETAIL
100-16	TRACER WIRE AT INLET OR STORM MANHOLE
100-17	SANITARY SEWER SERVICE UTILITY LOCATING AND TEST STATION
100-18	CASING/SKID
100-19	CASING PIPE
100-20	WATER AND SEWER SERVICE INSTALLATION IN THE SAME TRENCH







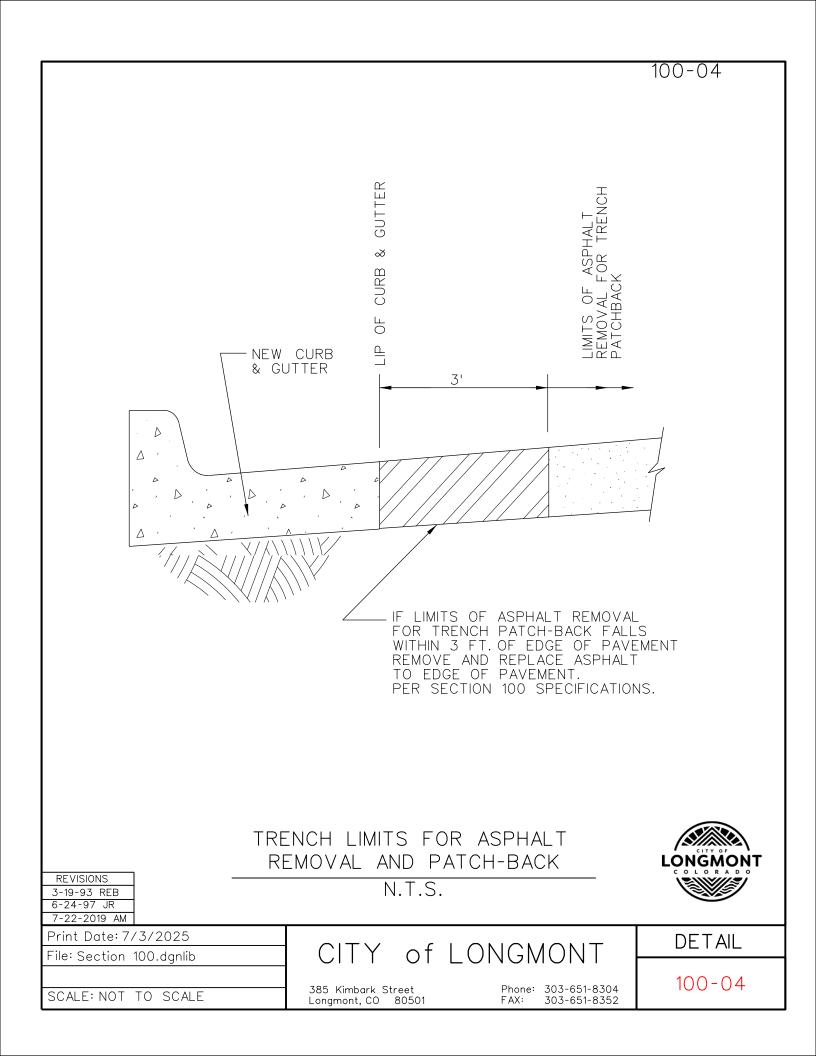
- BACKFILL TO BE COMPACTED TO 95% OF ASTM D-698 DENSITY IN ALL AREAS, UNLESS OTHERWISE NOTED.
- 12 AWG. SOLID COPPER WIRE SHALL BE INSTALLED AS TRACING WIRE ABOVE ALL UTILITY MAINS AND SERVICES. THE WIRE SHALL BE CONNECTED AND COME TO THE SURFACE AS PER SECTION 100 DESIGN STANDARDS.
- FILTER FABRIC IS REQUIRED IF STABILIZATION MATERIAL IS USED. THE FABRIC SHALL BE INSTALLED AS SHOWN IN THE DETAIL. SELECT FILTER FABRIC PER APPROVED MATERIAL LIST. BEDDING MATERIAL REQUIRED TO MEET SECTION 100 SPECIFICATIONS.
- 4)
- SEE DETAIL 300 FOR REINFORCED CONCRETE PIPE TRENCH DETAIL.

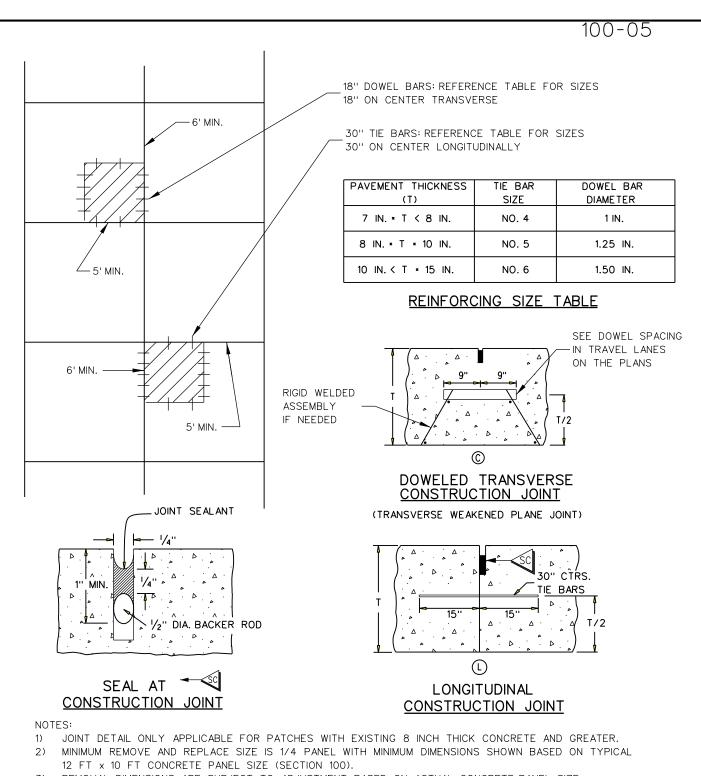
6-24-97 JR

	WET UTILITY TRENCH
REVISIONS	N.T.C
3-19-93 BM	N.I.S.

7-22-19 AM			
Print Date: 7/3/2025			DF
File: Section 100.dgnlib	_ CIIY of L	ONGMONT	
	705 1/2 1 1 01 1	DI . 707 054 0704	10
SCALE: NOT TO SCALE	385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	

ETAIL





- 3) REMOVAL DIMENSIONS ARE SUBJECT TO ADJUSTMENT BASED ON ACTUAL CONCRETE PANEL SIZE.
- 4) USE FULL DEPTH SAW CUTTING.

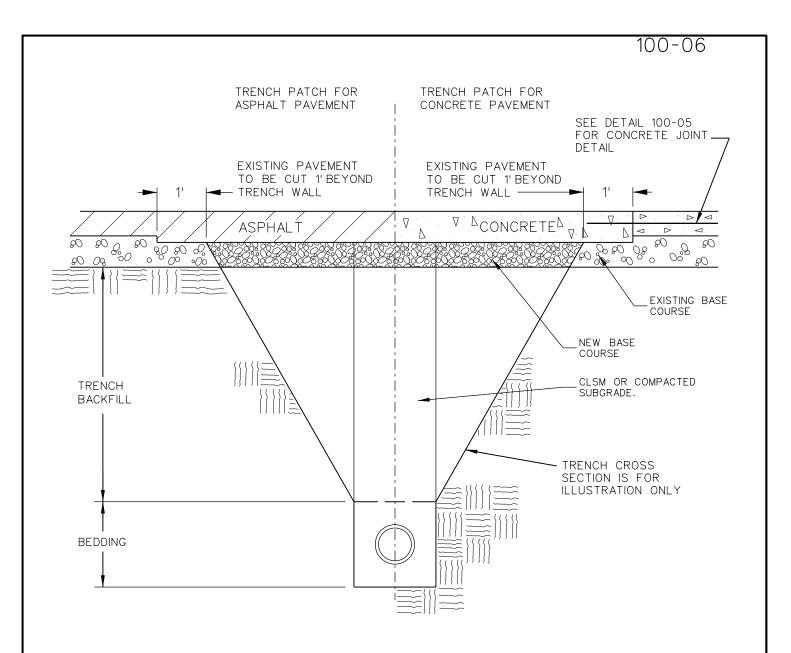
REVISIONS

3-1993 REB 7-22-19 AM

CONCRETE PAVEMENT PATCH-BACK N.T.S.



Print Date: 7/3/2025	CITY of I	\bigcirc NI	DETAIL
File: Section 100.dgnlib		ONGMONI	100-05
SCALE: NOT TO SCALE	385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	100-03



- 1) ASPHALT SHALL BE USED TO PATCH-BACK ASPHALT SURFACES. 8 INCH MINIMUM REQUIRED ASPHALT PATCH THICKNESS OR MATCH EXISTING THICKNESS IF GREATER.
- 2) CONCRETE SHALL BE USED TO PATCH-BACK CONCRETE SURFACES. 10 INCH MINIMUM REQUIRED CONCRETE PATCH THICKNESS OR MATCH EXISTING THICKNESS IF GREATER.
- 3) BEDDING AND BACKFILL REQUIRED TO MEET SECTION 100 SPECIFICATIONS.

TYPICAL ASPHALT AND
CONCRETE TRENCH PATCH-BACK
N T S



REVISIONS		
3-19-93 BM		
11-5-03 JR		
7-22-19 AM		

CITY of LONGMONT

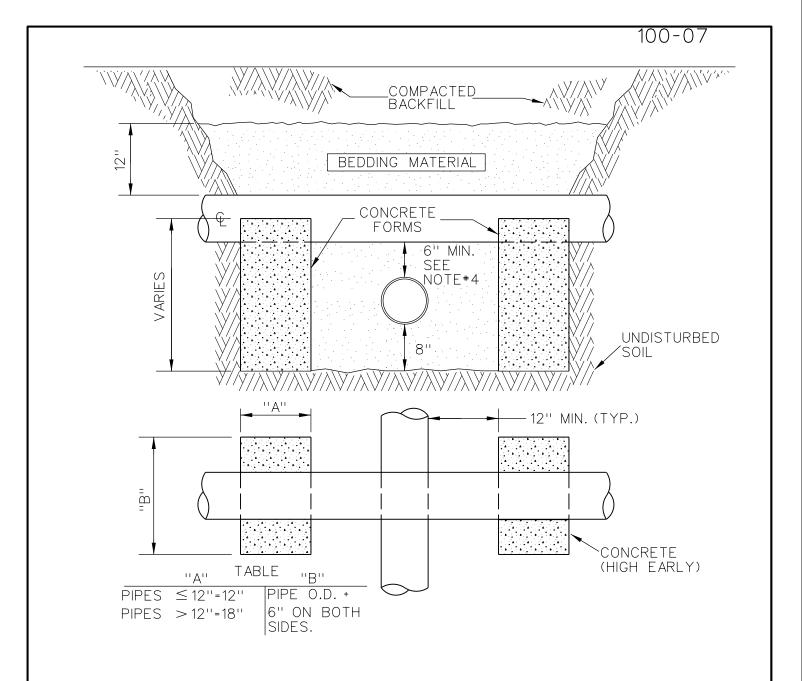
DETAIL

SCALE: NOT TO SCALE

Print Date: 7/3/2025

File: Section 100.dgnlib

385 Kimbark Street Longmont, CO 80501 Phone: 303-651-8304 FAX: 303-651-8352



REVISIONS

3-19-93 BM 7-22-2019 AM

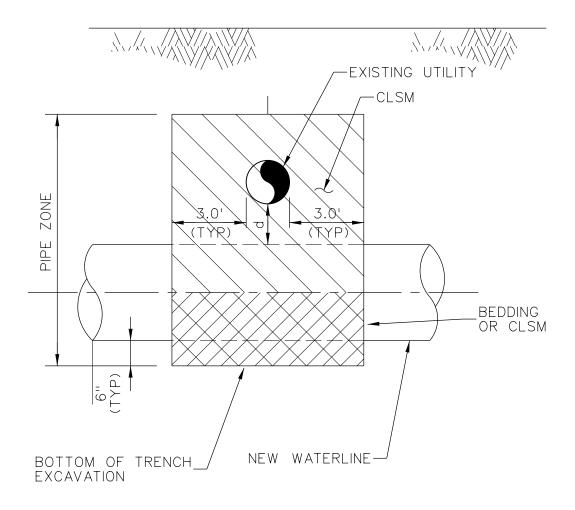
- 1) PIPE SECTIONS SHALL BE CENTERED OVER THE PIPE BEING CROSSED.
- 2) PIPE SIZES LARGER THAN 24" REQUIRE DESIGN BY A PROFESSIONAL ENGINEER.
- 3) A BOND BREAKER SHALL BE PLACED BETWEEN THE CONCRETE AND THE PIPE BEING SUPPORTED.
- 4) 6" OD TO OD MINIMUM.

PIPE CROSSING SUPPORT PAD DETAIL N.T.S.



Print Date: 7/3/2025			DETAIL
File: Section 100.dgnlib	I CHY of L	ONGMONI	<i>DE17</i> ((2)
	1		100.07
SCALE: NOT TO SCALE	385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	100-07

LONGMONT



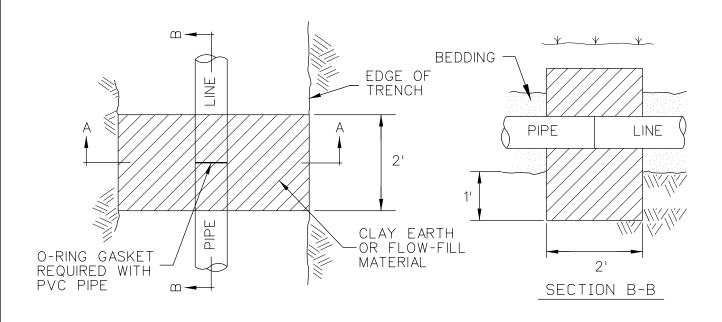
NOTES:

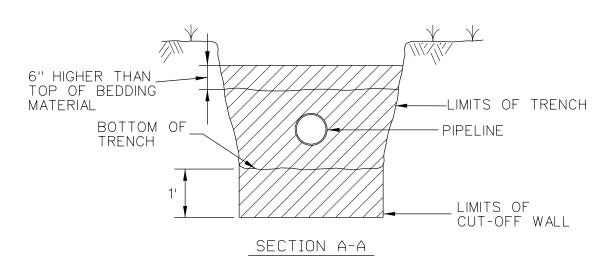
- 1) SUPPORT EXISTING PIPE OR DUCT INSTALLATION OF NEW PIPE.
- 2) THIS DETAIL ONLY APPLIES TO CROSSING UTILITIES WITH A DIAMETER OR LARGEST DIMENSION OF 8 INCHES OR GREATER.
- IF DIAMETER LESS 18 INCHES, THE PIPE ZONE MATERIAL SHALL BE CLSW PER SPECIFICATION SECTION 31-23-00. IF DIAMETER IS GREATER THAN 18 INCHES AND 3) LESS THAN 4 FEET, TTHE PIPE ZONE MATERIAL SHALL BE PIPE BEDDING PER SPECIFICATION SECTION 31-23-00. PIPE ZONE SHALL BE AS DIMENSIONED IN THIS
- IF DIAMETER GREATER THAN 4 FEET, INSTALLATION SHALL BE PER TYPICAL 4)
- TRENCHING AND BEDDING. SEE DETAIL 1/D-1.

 IF THE EXISTING UTILITYIS SANITARY SEWER, THE PIPE ZONE MATERIAL SHEET CLSM, REGARDLESS OF DIMENSION.

REVISIONS	N.T.S.		
Print Date: 7/3/2025 File: Section 100.dgnlib	CITY of L	ONGMONT	DETAIL
SCALE: NOT TO SCALE	385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	100-08

UTILITY CROSSING





- CUT-OFF WALL EXTENDS A MINIMUM OF ONE FOOT INTO UNDISTURBED SOIL ON BOTTOM OF TRENCH BEDDING.
- CLAY MATERIAL TO BE CLASSIFIED TYPE CL, CH, OR OH SOIL. APPROVED FLOW-FILL MATERIAL MAY BE USED IN PLACE OF CLAY MATERIAL. 3)

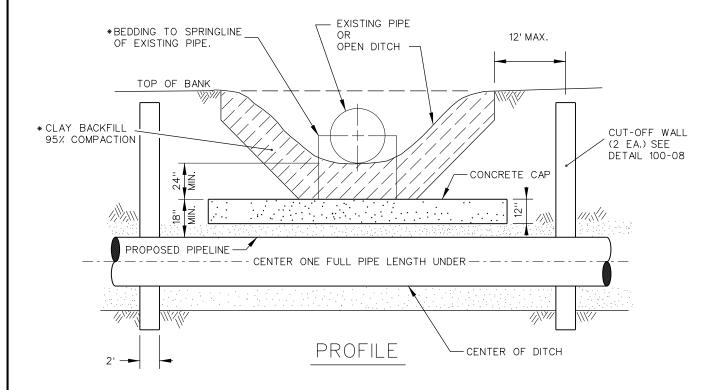
REVISIONS
3-19-93 BM
6-25-97 JR
7-22-2019 AM

CUT-OFF WALL N.T.S.



Print Date: 7/3/2025 File: Section 100.dgnlib	CITY of I	ONGMONT	DETAIL
SCALE: NOT TO SCALE	385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	100-09

100-10



NOTES:

- 1) USE CLAY BACKFILL ONLY WHEN CROSSING OPEN DITCH.
- 2) BEDDING MATERIAL TO EXTEND TO SPRING LINE OF EXISTING PIPE WHEN CROSSING PIPE.
- 3) REFERENCE DETAIL 100-09 FOR CUT-OFF WALL CONSTRUCTION.
- 4) CONCRETE CAP IS REQUIRED TO BE DESIGNED BY A PROFESSIONAL ENGINEER.
- 5) BEDDING AND BACKFILL REQUIRED TO MEET SECTION 109 SPECIFICATIONS.
- PIPE ENCASEMENT AT CITY ENGINEER'S DISCRETION.

DITCH CROSSING NTS



REVISIONS		
3-19-93 BM		
3-12-99 JR		
7-22-2019 AM		

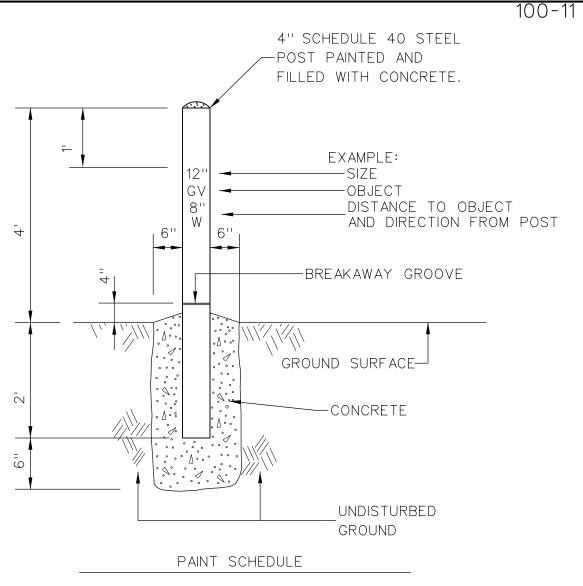
Print Date: 7/3/2025

File: Section 100.dqnlib

SCALE: NOT TO SCALE

DETAIL

385 Kimbark Street Longmont, CO 80501 Phone: 303-651-8304 FAX: 303-651-8352



BLUE/WHITE - CATHODIC PROTECTION

BLUE - POTABLE WATER

GREEN - SANITARY SEWER

PURPLE - STORM SEWER

NOTE:

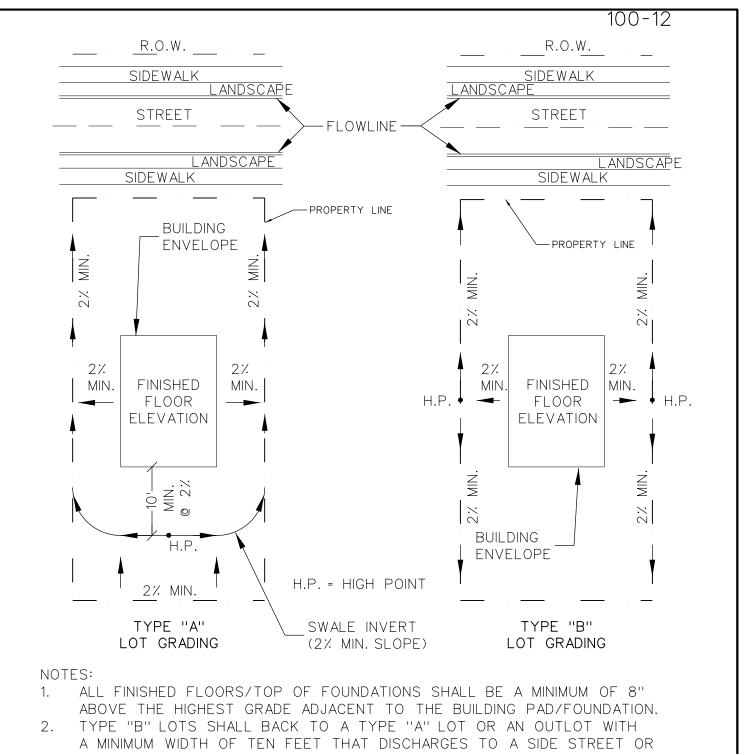
1) MARKER POST SHALL BE INSTALLED AT FITTINGS, VALVES AND MANHOLES AS SHOWN ON THE PLAN.

REVISIO1	NS .
3-19-93	ВМ
7-22-19	AM

MARKER POST N.T.S.



Print Date: 7/3/2025		0.1.0.1.0.1.T	DETAIL
File: Section 100.dgnlib	T CH Y of L	ONGMONI	DE 1741E
			100-11
SCALE: NOT TO SCALE	385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	100 11



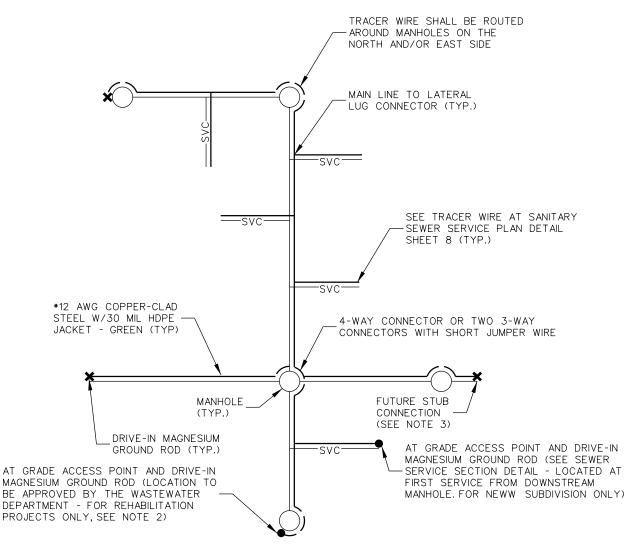
A DRAINAGE WAY.

TYPICAL RESIDENTIAL LOT GRADING DETAIL

REVISIONS



Print Date: 7/3/2025	CITY of LONG	MONIT	DETAIL
File: Section 100.dgnlib	CITY of LONG	IVIONI	100 10
SCALE: NOT TO SCALE	385 Kimbark Street Phor Longmont, CO 80501 FAX:	ne: 303-651-8304 303-651-8352	100-12



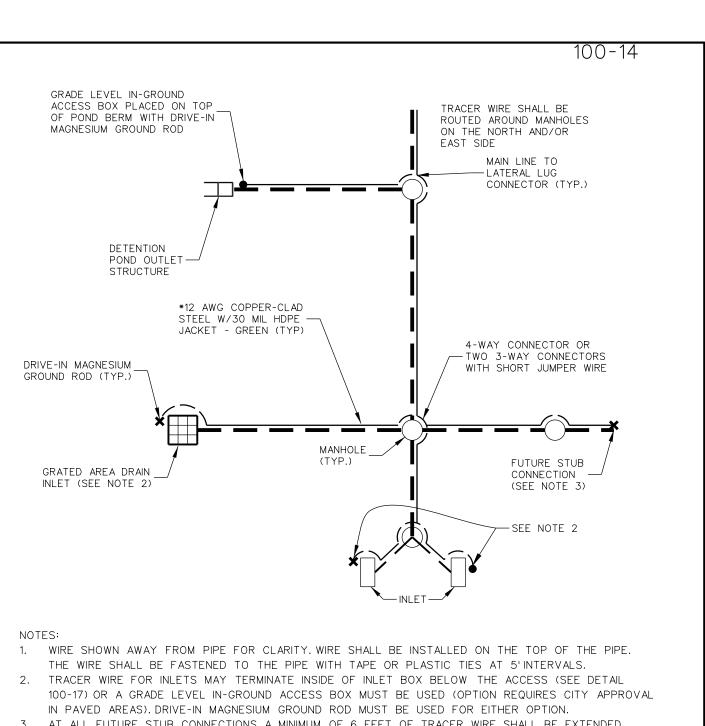
REVISIONS

- 1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE TOP OF THE PIPE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.
- 2. REHABILITATION PROJECTS SHALL HAVE A DRIVE-IN MAGNESIUM GROUND ROD INSTALLED ON THE UPSTREAM AND DOWNSTREAM MANHOLES AS WELL AS A GRADE LEVEL IN-GROUND ACCESS BOX INSTALLED AT THE DOWNSTREAM MANHOLE (ACCESS BOX TYPE AND LOCATION BY WASTEWATER DEPARTMENT).
- 3. AT ALL FUTURE STUB CONNECTIONS, A MINIMUM OF 6 FEET OF TRACER WIRE SHALL BE EXTENDED BEYOND THE END OF THE PIPE, COILED AND SECURED FOR FUTURE CONNECTIONS. THE END OF THE TRACER WIRE SHALL BE ELEVATIONS AS THE SEWER MAIN.

TRACER WIRE SAMPLE
SANITARY SEWER PLAN
N.T.S.

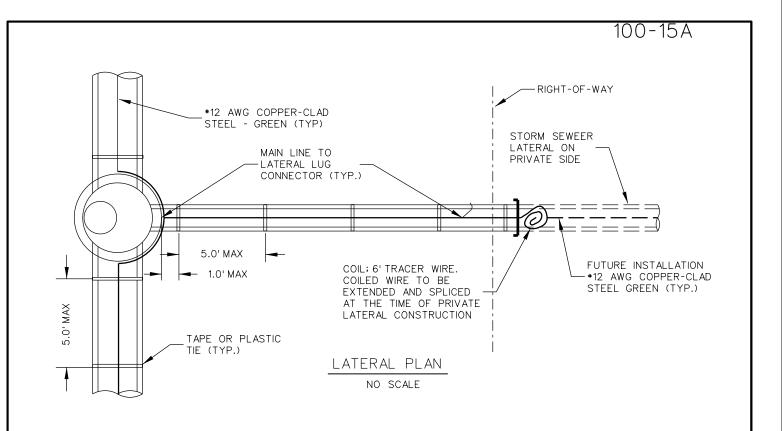


Print Date: 7/3/2025	CITY of LONGMONT	DETAIL
File: Section 100.dgnlib	CITT OF LONGWONE	100-13
SCALE: NOT TO SCALE	385 Kimbark Street Phone: 303-651-830- Longmont, CO 80501 FAX: 303-651-835:	+ 100 10



3. AT ALL FUTURE STUB CONNECTIONS, A MINIMUM OF 6 FEET OF TRACER WIRE SHALL BE EXTENDED BEYOND THE END OF THE PIPE, COILED AND SECURED FOR FUTURE CONNECTIONS. THE END OF THE TRACER WIRE SHALL BE ELEVATIONS AS THE SEWER MAIN.

TRACER WIRE SAMPLE STORM SEWER PLAN N.T.S.		LONGMONT	
Print Date: 7/3/2025 File: Section 100.dgnlib	CITY of I	NCMONT	DETAIL
SCALE: NOT TO SCALE	385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	100-14



LATERAL PROFILE SEE DETAIL 100-15B

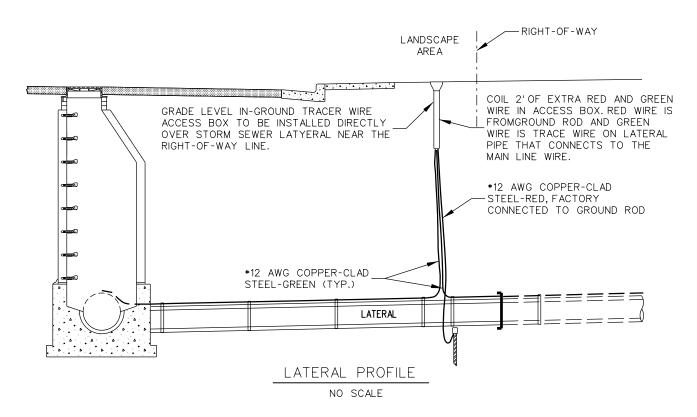
NOTES:

- WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE TOP OF THE PIPE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5'INTERVALS.
- TRACER WIRE NOT REQUIRED FOR REHABILITATION PROJECTS. 2.
- ACCESS BOX REQUIRED AT UPSTREAM TERMINAL LATERAL AND AT EVERY STREET INTERSECTION WHERE A STORM INLET BOX OR OTHER STORM LATERAL WILL EXIST. CITY APPROVAL REQUIRED ON ALL ACCESS BOX LOCATIONS.

TRACER WIRE AT

REVISIONS	SEWER LATERAL DET. N.T.S.	AIL LONGMONT	IGMONT
Print Date: 7/28/2025 File: Section 100.dgnlib	CITY of LON	NGMONT DETAIL	ETAIL
SCALE: NOT TO SCALE	385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	0-15A

LATERAL PLAN SEE DETAIL 100-15A



NOTES:

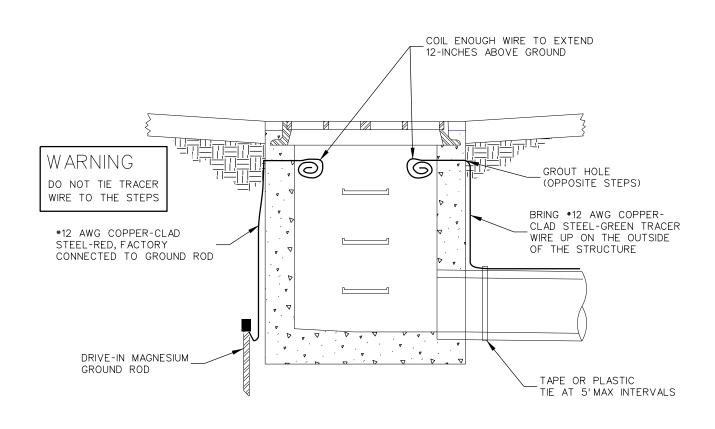
REVISIONS

- WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE TOP OF THE PIPE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5'INTERVALS.
- TRACER WIRE NOT REQUIRED FOR REHABILITATION PROJECTS.
- ACCESS BOX REQUIRED AT UPSTREAM TERMINAL LATERAL AND AT EVERY STREET INTERSECTION WHERE A STORM INLET BOX OR OTHER STORM LATERAL WILL EXIST, CITY APPROVAL REQUIRED ON ALL ACCESS BOX LOCATIONS.

TRACER WIRE AT SEWER LATERAL DETAIL N.T.S.

STATE OF THE PARTY		
LONGMONT		
COLORADO		

Print Date: 7/28/2025		ONIONIONIT	DETAIL
File: Section 100.dgnlib] CITY of L	ONGMONI	<i>DL</i> 1, "L
		707.054.0704	100-15B
SCALE: NOT TO SCALE	— 385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	100 100



REVISIONS

THIS OPTION IS RECOMMENDED FOR INLETS IN A PARKING LOT WHERE A LEVEL IN-GROUND TRACER WIRE ACCESS BOX HAS POTENTIAL TO BE COVERED BY ASPHALT OVERLAY. THIS OPTION REQUIRES CITY OF LONGMONT STORMWATER APPROVAL AND MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS.

> TRACER WIRE AT INLET OR STORM MANHOLE N.T.S.

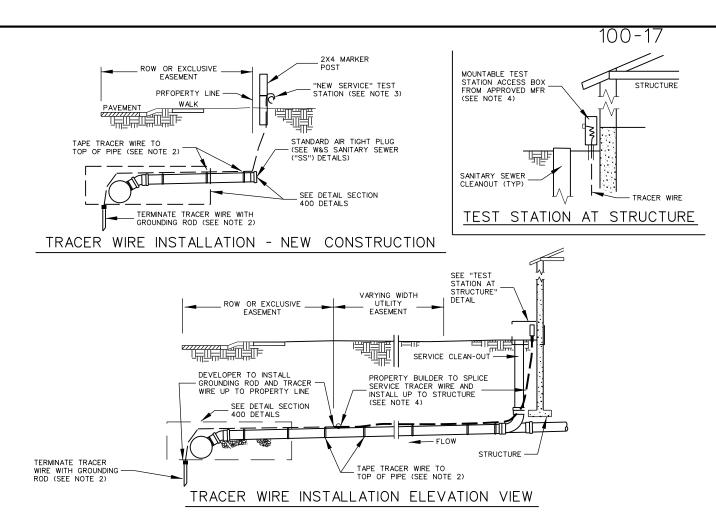


Print Date: 7/28/2025 CITY of LONGMONT File: Section 100.dqnlib 385 Kimbark Street Longmont, CO 8050 SCALE: NOT TO SCALE 80501

Phone: 303-651-8304 303-651-8352

100-16

DETAIL



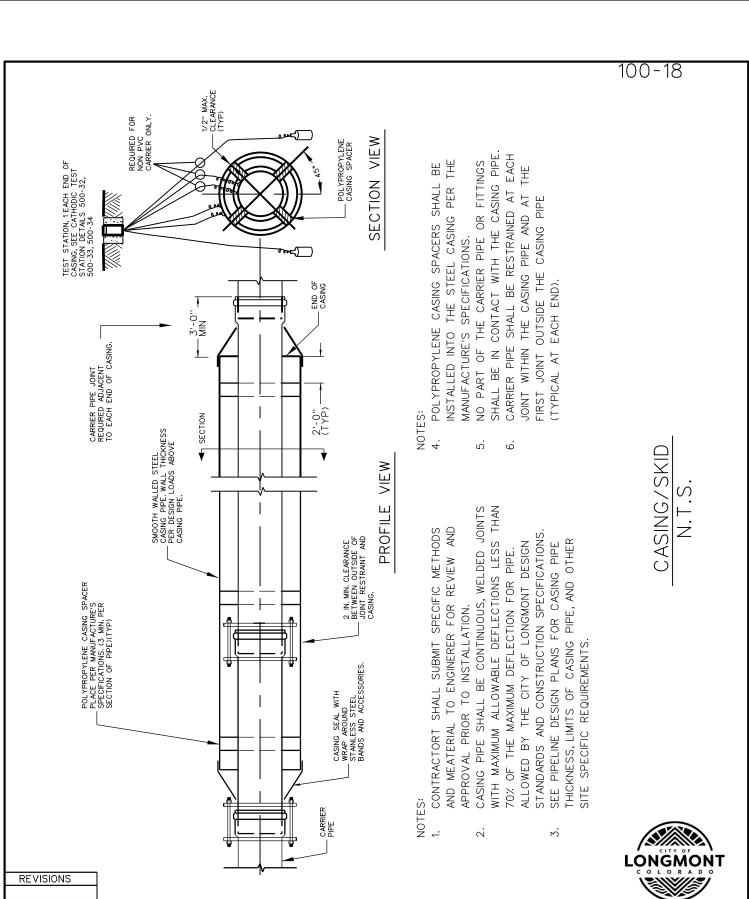
REVISIONS

- REFER TO SECTION 400 DETAILS, FOR SANITARY SEWER SERVICE LATERAL STANDARD DETAIL.
- REFER TO RELATED SERVICE LATERAL TRACER WIRE DETAIL <u>UL-3</u>, AND GENERAL TRACER WIRE NOTES ON <u>UL-6</u>, LATEST REVISION OF EACH, FOR ADDITIONAL TRACER WIRE TAPING, SPLICING, CONNECTING, GROUNDING, AND MISC. INSTALLATION DETAILS.
- 3. DEVELOPER TO INSTALL TRACER WIRE FROM SS MAIN TO THE TEST STATION BOX ON THE EDGE OF ROW. TEST STATION FOR NEW DEVELOPMENT SHALL BE A COIL OF 2 FT(LINEAR) TRACER WIRE. SECURED TO THE SERVICE STUB MARKER POST.
- 4. PROPERTY BUILDER TO SPLICE SANITARY SEWER SERVICE TRACER WIRE PROPERTY LINE AND INSTALL UP TO STRUCTURE, TERMINATING AT THE SS SERVICE CLEANOUT WITH AN APPROVED MFR TEST STATION ACCESS BOX FROM AN APPROVED MFR. TEST STATION ACCESS BOX SHALL BE MOUNTED TO THE STRUCTURE WITHIN 18" OF THE SS SERVICE CLEANOUT AND INSTALLED ACCORDING TO THE TEST STATION MFR. SPECIFICATIONS. REFER TO WATER & SEWER SPECIFICATIONS, LATEST REVISION, FOR APPROVED MFR.

SANITARY SEWER SERVICE UTILITY LOCATING AND TEST STATION N.T.S.



Print Date: 7/3/2025			DETAIL
File: Section 100.dgnlib	CITY of L	ONGMONI	
			100-17
SCALE: NOT TO SCALE	385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	



of LONGMONT

385 Kimbark Street

80501

Longmont, CO

___ Print Date: 7/3/2025

100.dgnlib

TO

SCALE

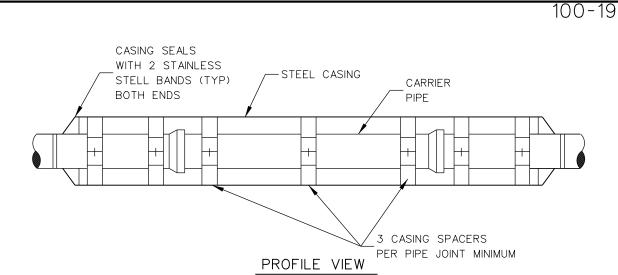
File: Section

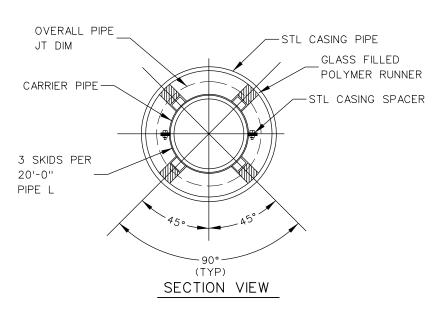
SCALE: NOT

303-651-8304 303-651-8352 Phone: FAX:

100-18

DETAIL





CARRIER PIPE	CASING PIPE		
NOMINAL Ø	MIN OD	MIN WALL THICKNESS	
4''	12''	0.25"	
6''	16''	0.3125"	
8''	18''	0.3125"	
12''	22"	0.375"	
16''	28''	0.500''	
20''	32"	0.500''	

CASING PIPE N.T.S.



REVISIONS

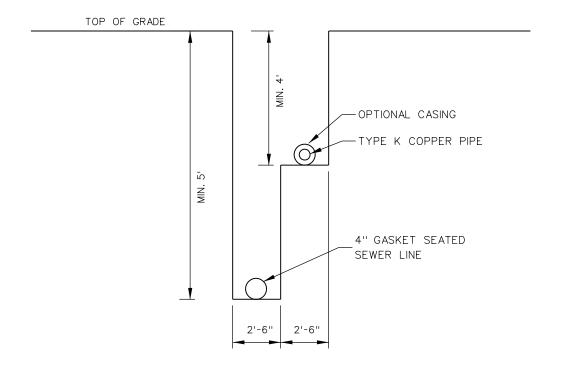
Print Date: 7/3/2025

File: Section 100.dgnlib

SCALE: NOT TO SCALE

CITY of LONGMONT

385 Kimbark Street Longmont, CO 80501 Phone: 303-651-8304 FAX: 303-651-8352 DETAIL



REVISIONS

- DETAIL ONLY TO BE USED FOR WATER AND SEWER SERVICES, UPON APPROVAL FROM THE ENGINEER.
 WATER SHALL BE INSTALLED ON AN UNDISTURBED EARTH BENCH.
 SEE 402.05.01(4) FOR MORE INFORMATION.
- 2)

WATER & SEWER SERVICE INSTALLATION IN THE SAME TRENCH

N.T.S.

STATE OF THE PARTY		
LONGMONT		
COLORADO		

Print Date: 7/28/2025			DFTAII
File: Section 100.dgnlib	I CHY of LO	ONGMONI	0217112
SCALE: NOT TO SCALE	385 Kimbark Street Longmont, CO 80501	Phone: 303-651-8304 FAX: 303-651-8352	100-20