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— — — G-QLB — — — G-QLB — — — — — — G-QLC — — — G-QLC — — — — — — G-QLD — — — G-QLD — — —	UNDERGROUND GAS LINE
— — — G-HP-QLB — — — G-HP-QLB — — — G-HP-QLC — — G-HP-QLC — — — G-HP-QLD — — G-HP-QLD	UNDERGROUND HIGH PRESSURE GAS LINE
— — — IRR-QLB — — — IRR-QLB — - — — — IRR-QLC — — IRR-QLC — - — — — IRR-QLD — — IRR-QLD — -	
	DVERHEAD LIGHTING LINE
	_ UNDERGROUND LIGHTING _ LINE
— — — D-QLB — — — D-QLB — — — — — — D-QLC — — — D-QLC — — — — — — D-QLD — — D-QLD — — —	UNDERGROUND OIL
$ \rightarrow \qquad SA-QLB \longrightarrow SA-QLB - $ $ \rightarrow \qquad SA-QLC \longrightarrow SA-QLC - $ $ \rightarrow \qquad SA-QLD \longrightarrow SA-QLD - $	UNDERGROUND SANITARY SEWER
— → — COM — → — SA/ST-QL — → — COM — → — SA/ST-QL — → — COM — → — SA/ST-QL	C UNDERGROUND SANITARY/ STORM SEWER COMBINED
— — — SIG-QLB — — — SIG-QLB — - — — — SIG-QLC — — — SIG-QLC — - — — — SIG-QLD — — SIG-QLD — -	UNDERGROUND SIGNAL LINE
	UNDERGROUND STORM SEWER 

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W-QLBW-QLB W-QLCW-QLC LINE

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# HDR SUBSURFACE UTILITY ENGINEERING (SUE) NOTES

SURVEYING NOTES:

NOTE S1 - TIME FRAME: HDR ENGINEERING, INC. PERFORMED INITIAL SUE LOCATING AND SURVEYING DURING WINTER, 2021-2022.

NOTE S2 - CONTROL:

HDR ENGINEERING, INC. UTILIZED LAND SURVEY CONTROL SET DURING PREVIOUS TOPOGRAPHIC SURVEY COMPLETED BY COOT. AND PROVIDED BY CDDT WHILE COMPLETING THE SUE SURVEY.

NOTE S3 - PLANIMETRICS:

SYMBOLS AND LINES REPRESENTING TOPOGRAPHIC SURVEY AND OTHER PLANIMETRIC FEATURES WERE PROVIDED BY WOOLPERT INC. AND SHOWN AS BACKGROUND INFORMATION ON THE EXISTING UTILITY PLAN. ONLY UTILITY FEATURES WERE FIELD MEASURED DURING THE SUE INVESTIGATION.

#### ENGINEERING NOTES:

#### NOTE E1 - OUT OF SERVICE UTILITIES:

OUT OF SERVICE OR ABANDONED UTILITY LINES THAT MAY BE SHOWN ON THE SUE INVESTIGATION PLAN WERE LOCATED DUE TO THE PRESENCE OF ABOVE GROUND APPURTENANCES OR OWNER-PROVIDED MAPPING. THE SUE INVESTIGATION PLAN IS INTENDED TO SHOW ACTIVE UTILITY LINES AND DOES NOT SHOW ALL OUT OF SERVICE UTILITY LINES THAT MAY EXIST IN THE PROJECT AREA. DUT OF SERVICE STATUS WAS DETERMINED VIA OWNER PROVIDED MAPPING OR DIRECTION AND IS NOT AFFIRMED BY HDR ENGINEERING, INC. THE CONTRACTOR SHALL USE CAUTION AROUND OUT OF SERVICE UTILITY LINES AND SHALL TREAT THEM AS IF THEY ARE ACTIVE.

#### NOTE E2: - SEWER QUALITY LEVEL

ALL SANITARY AND STORM SEWERS SHOWN ON THE EXISTING UTILITY INVESTIGATION PLAN ARE DEPICTED AS QUALITY LEVEL C UNLESS OTHERWISE NOTED. THESE LINES WERE NOT LOCATED USING GEOPHYSICAL MEANS AS THIS LEVEL OF INVESTIGATION WOULD PROVIDE RELATIVELY LITTLE ADDITIONAL USEFUL INFORMATION. DURING PREVIOUS TOPOGRAPHIC SURVEY, SEWER LINES WERE IDENTIFIED VIA MEASURE-DOWNS COMPLETED BY WOOLPERT, INC.

### NOTE E3 - CONTRACTOR RESPONSIBILITY:

A PROGRAMMATIC EFFORT HAS BEEN MADE TO SYSTEMATICALLY LOCATE. SURVEY, AND DEPICT UTILITIES WITHIN THE PROJECT AREA TO THE EXTENT PRACTICAL. SUE INVESTIGATION PLANS ARE FOR DESIGN PURPOSES ONLY AND REFLECT SUBSURFACE UTILITY CONDITIONS AT THE TIME OF THE SUE INVESTIGATION. EXISTING UTILITY LOCATIONS DEPICTED ON THE PLANS DO NOT SUPERSEDE COLORADO STATE ONE CALL DEMARCATIONS OF BURIED UTILITIES OR RELIEVE THE CONTRACTOR FROM THE LEGAL REQUIREMENT TO CONTACT ONE CALL TWO WORKING DAYS PRIOR TO CONSTRUCTION. HDR ENGINEERING, INC SHOULD BE NOTIFIED OF ANY DISCREPANCIES BETWEEN THE EXISTING UTILITY PLAN AND ONE CALL DEMARCATIONS. THE CONTRACTOR SHALL USE CAUTION UNTIL SUCH DISCREPANCIES ARE RESOLVED.

NOTE E4 - SERVICE LATERALS: UTILITY SERVICE LATERALS WERE LOCATED WHEN DEPICTED ON UTILITY OWNER MAPPING AND WHEN EXISTENCE COULD BE VERIFIED IN THE FIELD. IT IS POSSIBLE THAT PREVIOUSLY UNKNOWN SERVICE LATERALS MAY EXIST WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL VERIFY ALL SERVICE LATERALS WITH PROPERTY AND UTILITY OWNERS AS REQUIRED DURING CONSTRUCTION.

#### ENGINEERING NOTES (CONT.):

NOTE E5 - WATER MAIN LOCATE QUALITY: MANY OF THE WATER MAINS THROUGHOUT THE PROJECT COULD NOT BE LOCATED USING GEOPHYSICAL MEANS DUE TO MATERIAL AND LACK OF TRACER WIRE AND ARE DEPICTED AS QUALITY LEVEL C/D AS A RESULT. TESTHOLES WERE PERFORMED AT LOCATIONS DETERMINE FROM OWNER-PROVIDED MAPPING AND WHERE REQUIRED FOR RELOCATION DESIGN. THE CONTRACTOR SHALL BE AWARE OF THE UNCERTAINTY OF THE EXISTING

NDTE E6 - 3RD ST GAS LINE LOCATE QUALITY: THE DISTRIBUTION GAS LINE RUNNING NORTH AND SOUTH ALONG 3RD STREET COULD NOT BE LOCATED USING GEOPHYSICAL MEANS DUE TO MATERIAL AND LACK OF TRACER WIRE AND IS DEPICTED AS QUALITY LEVEL C/D AS A RESULT. INITIAL TESTHOLES WERE UNSUCCESSFUL. BECAUSE THE LINE IS PLANNED TO BE RELOCATED BY OTHERS, FURTHER TESTHOLES WERE NOT PERFORMED. THE CONTRACTOR SHALL EXERCISE CAUTION IF WORKING IN THE LINE VICINITY PRIOR TO RELOCATION.

WATER MAIN LOCATIONS AND EXERCISE CAUTION IF WORKING IN THE

WATER MAIN VICINITY PRIOR TO RELOCATION.

NOTE E7 - PITKIN AVE UNKNOWN TELEPHONE LINE DURING THE SUE INVESTIGATION, A PREVIOUSLY UNDOCUMENTED SMALL UTILITY LINE, ASSUMED TO BE TELEPHONE, WAS LOCATED RUNNING BETWEEN VAULTS IN PITKIN AVENUE AS SHOWN ON THE PLANS. LUMEN HAS INVESTIGATED THE LINE AND DETERMINED IT NOT TO BE USED OR OWNED BY LUMEN. THE UNDOCUMENTED TELEPHONE LINE IS ASSUMED TO BE DUT OF SERVICE.

1.CAUTION: LOCATION OF EXISTING UTILITIES IS SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AS SUPPLIED BY THE UTILITY PROVIDERS INCLUDING TYPE, SIZE, LOCATION, AND NUMBER OF UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS NECESSARY TO ENSURE THE UTILITIES WILL NOT BE IMPACTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBTAIN THE PROJECT ENGINEER'S APPROVAL PRIOR TO PERFORMING ANY TEST HOLES.

2.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.

3.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, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 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.

ARE NOT ACCURATE.

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## CDDT GENERAL UTILITY NOTES

4. THE CONTRACTOR IS RESPONSIBLE FOR NOTING ALL UTILITY LOCATIONS ON THE AS-BUILT SET OF DRAWINGS IF THE DOCUMENTS

5. THE CONTRACTOR SHALL KEEP REQUIRED MINIMUM CLEARANCE FROM ALL OVERHEAD UTILITIES DURING CONSTRUCTION ACTIVITIES.

6.UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SUCIETY OF CIVIL ENGINEERS'DOCUMENT ASCE 38, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

I-70B SOUTH OF ROOD SUE INVESTIGATION PLAN	Project No./Code
GENERAL NOTES	NHPP 070A-037
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UTILITY OWNER	ТҮРЕ	CONTACT	PHONE	EMAIL
CDOT	Signal Electric	Marc Travis	970-683-7534	marc.travis@state.co.us
CITY OF GRAND JUNCTION	Signal Electric - 1st & Main	Cliff Schroeder	970-201-4139	cliffs@gjcity.org
CIT I OF GRAND JUNCTION	Sanitary-Storm Sewer and Water		970-201-4139	
		Chris Johnson	970-244-4311	chris.johnson5@lumen.com
LUMEN TECHNOLOGIES	Telephone & Fiber Optic	Rob McLeod (Terra Tech)	303-949-2187	rmcleod@terratechllc.net
CHARTER COMMUNICATIONS	Cable TV & Fiber Optic	Jeff Valdez	970-210-2550	jeff.valdez@charter.com
(SPECTRUM)	Cable IV & Fiber Optic	Armando Duran	970-589-0947	armando.duran@charter.com
UNITE PRIVATE NETWORK	Fiber Optic	Kevin Shucard	719-313-6826	kevin.shucard@upnfiber.com
VERIZON (MCI)	Fiber Optic	Lane Grady	303-390-2466	lane.grady@verizon.com
	IP Gas, Design and Construction	Annie Borchers	720-237-3520	annie.l.borchers@xcelenergy.com
XCEL ENERGY	LP Gas and Electric, Design	Tillmon McSchooler	970-244-2695	tillmon.mcschooler@xcelenergy.com
	LP Gas and Electric, Construction	Darin White	970-244-2664	Darin.d.white@xcelenergy.com

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