UTILITY CONTACTS

SEC 01- TWP 47N- RNG 32W

NOT TO SCALE

LEE'S SUMMIT, MO 64063 TEL: (816) 969-1600 FAX: (816) 969-1619

PUBLIC WORKS 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 TEL: (816) 969-1800

FAX: (816) 969-1809

LEE'S SUMMIT FIRE DEPARTMENT 207 SE DOUGLAS ROAD LEE'S SUMMIT, MO 64063 TEL: (816) 969-1300

TELEPHONE COMPANY

TEL: (800) 464-7928

TEL: (816) 969-1200 FAX: (816) 969-1201 WATER UTILITIES

CITY HALL 1200 SE HAMBLEN RD LEE'S SUMMIT, MO 64063 TEL: (816) 969-1900

ELECTRIC COMPANY TEL: (888) 471-5275

FAX: (816) 969-1935

GAS COMPANY MISSOURI GAS ENERGY

TEL: (816) 756-5252

All existing utility locations shown are approximate only and are not guaranteed to be accurate or all inclusive. Contractor shall be responsible for contacting all utility companies and verifying the actual field locations of all utilities prior to any construction activity. Contractor shall keep all utility locations current. Utilities damaged through the negligence of the contractor to obtain the proper field locations shall be the responsibility of the contractor to repair or replace at their expense and at the direction of the utility company. The contractor shall pothole and survey all utility crossings prior to construction of any portion of storm sewer, sanitary sewer laterals, underdrains, conduit and any other subsurface element of the project. The survey information shall be forwarded to the project engineer for review. The contractor shall not begin construction on any subsurface element on the project without the approval of the project engineer. Utility coordination, potholing/surveying shall be subsidiary to other bid items.



CITY OF LEE'S SUMMIT, MISSOURI JOHN KNOX VILLAGE MEADOWS PUBLIC WATER MAIN IMPROVEMENTS CITY PROJECT NO. PL2021150



VICINITY MAP Not to Scale

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	OVERALL WATER MAIN PLAN
3	WATER MAIN PLAN & PROFILE
4	WATER MAIN DETAILS
5	WATER MAIN DETAILS 2

BENCHMARKS / CONTROL POINTS (DATUM: NAVD88)

BM/CP #5002 SET CUT "+" ± & OF CONCRETE SIDEWALK IN EAST CURB RETURN, NORTH SIDE OF NORTHWEST O'BRIEN ROAD NORTH = 1002910.185EAST = 2814693.406*ELEVATION* = *963.93*

BM/CP #13314

SET CUT "+" IN CONCRETE SIDEWALK, SOUTHWEST CORNER OF NORTHWEST MOORE STREET & NORTHWEST HOPE LANE (NOT SHOWN HEREON) NORTH = 1003090.460EAST = 2815069.800*ELEVATION = 974.62*

BM/CP #13315 SET CUT "+" IN CONCRETE SIDEWALK, NORTHEAST CORNER OF NORTHWEST O'BRIEN ROAD & NORTHWEST MOORE STREET (NOT SHOWN HEREON) NORTH = 1002830.710EAST = 2814916.010*ELEVATION = 974.65*

PREPARED & SUBMITTED BY:

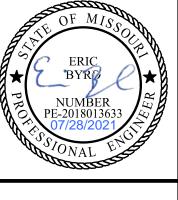
BHC RHODES OVERLAND PARK, KANSAS

ERIC BYRD, P.E.

APPROVED:

BY THE CITY OF LEE'S SUMMIT, MISSOURI.

CITY ENGINEER





Design: SKT Drawn: SK Issue Date: 05/04/202 Project Number: 02880



VIDENTIFY CONSTRUCTION NOTES

- W WATER SERVICE INFORMATION CITY OF LEE'S SUMMIT
- INSTALL 12"X6" REDUCER.
- REPLACE 1,380 LF OF EXISTING 6" WATER MAIN WITH 12" C900 WATER MAIN. INSTALL AT A MINIMUM DEPTH OF 42".
- INSTALL 12" 22.5° BEND WITH THRUST BLOCKING.
- INSTALL 12" 60° BEND WITH THRUST BLOCKING. INSTALL 12"X8" TEE WITH THRUST BLOCKING. SEE WATER MAIN NOTE 1.
- INSTALL 12"X12" TEE WITH THRUST BLOCKING. SEE WATER MAIN NOTE 1.
- INSTALL 12"X8" CROSS. SEE WATER MAIN NOTE 1. 85 LF OF PIPE TO BE RESTRAINED USING SLIP-JOINTS WITH STRADDLE BLOCKING. SEE DETAIL WAT-3 ON SHEET 4 FOR STRADDLE
- APPROXIMATE LOCATION OF EXISTING SERVICE CONNECTION. SEE DETAIL
- WAT-11 ON SHEET 4. EXISTING VALVE TO REMAIN.
- INSTALL 12" BUTTERFLY VALVE.
- INSTALL 8" GATE VALVE.

UTILITY GENERAL NOTES

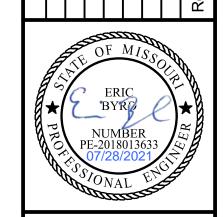
- 1. CONTRACTOR SHALL REFER TO ALL SPECIFICATIONS, GUIDELINES, AND INSTALLATION DRAWINGS FROM THE CITY OF LEE'S SUMMIT, EVERGY, AND MISSOURI GAS ENERGY FOR THE INSTALLATION OF ALL SERVICE LINES.
- 2. CONTRACTOR TO ENSURE 18" MINIMUM SEPARATION BETWEEN WATER MAIN AND STORM/SANITARY LINES AT CROSSINGS PER LEE'S SUMMIT DESIGN STANDARDS. CONTRACTOR TO CALL CIVIL IF ANY CONFLICTS BETWEEN UTILITIES ARE FOUND.
- 3. CONTRACTOR TO RESTORE EXISTING CONDITIONS IF DEMOLISHED/DAMAGED DURING CONSTRUCTION TO MEET CITY OF LEE'S SUMMIT STANDARDS.
- 3.1. REFER TO DETAILS ON SHEET 5 FOR RESTORATION DETAILS

JOINT RESTRAINT NOTE

1. AT ALL NEW CROSS AND TEE JOINT CONNECTIONS, THE CONTRACTOR SHALL RESTRAIN ALL JOINTS CONNECTING THE REDUCER TO THE CONNECTION, ALL JOINTS CONNECTING THE CONNECTION TO THE SLIP-JOINT RESTRAINED PIPE, AND ALL VALVES TO THE FITTINGS THEY ARE NEAR.

SERVICE LINE RECONNECTION NOTE

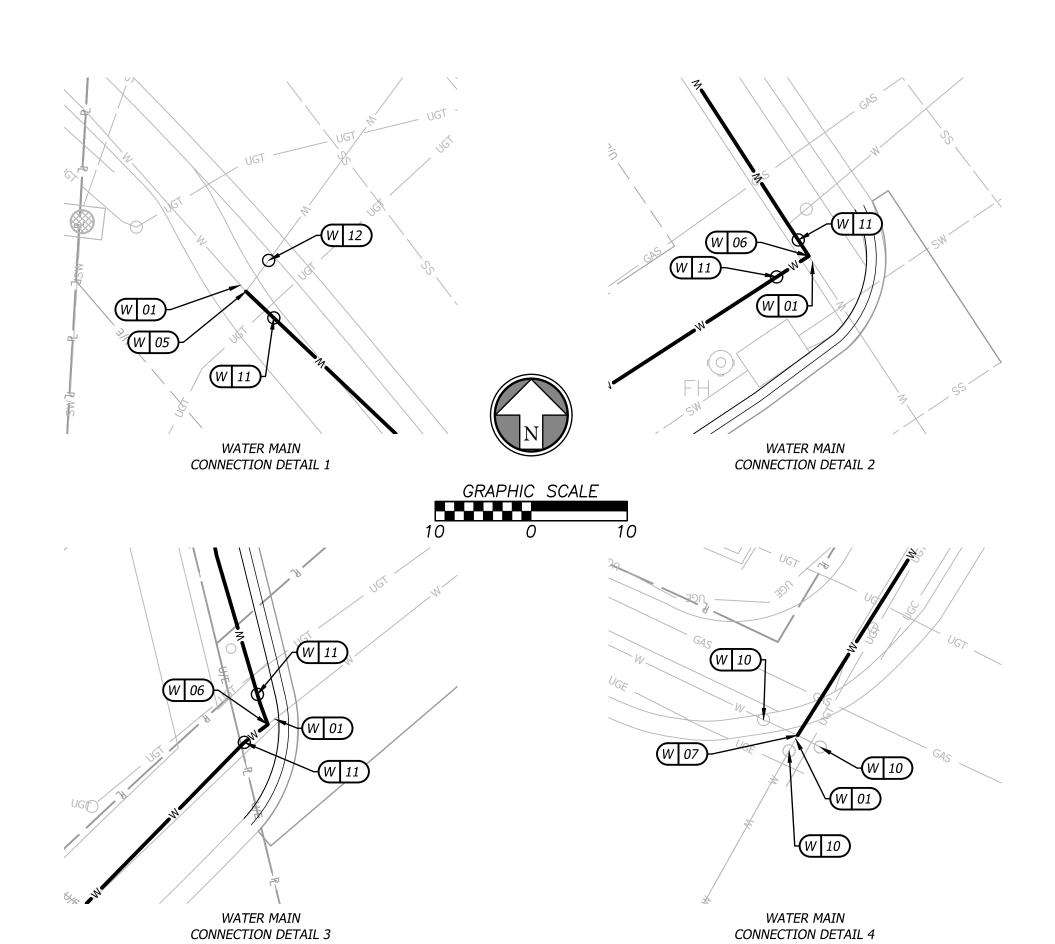
CONTRACTOR SHALL RECONNECT ALL EXISTING WATER SERVICE LINES THAT ARE DISCONNECTED DURING THE WATER MAIN DEMOLITION AND CONSTRUCTION. SEE DETAIL WAT-11 ON SHEET 4.

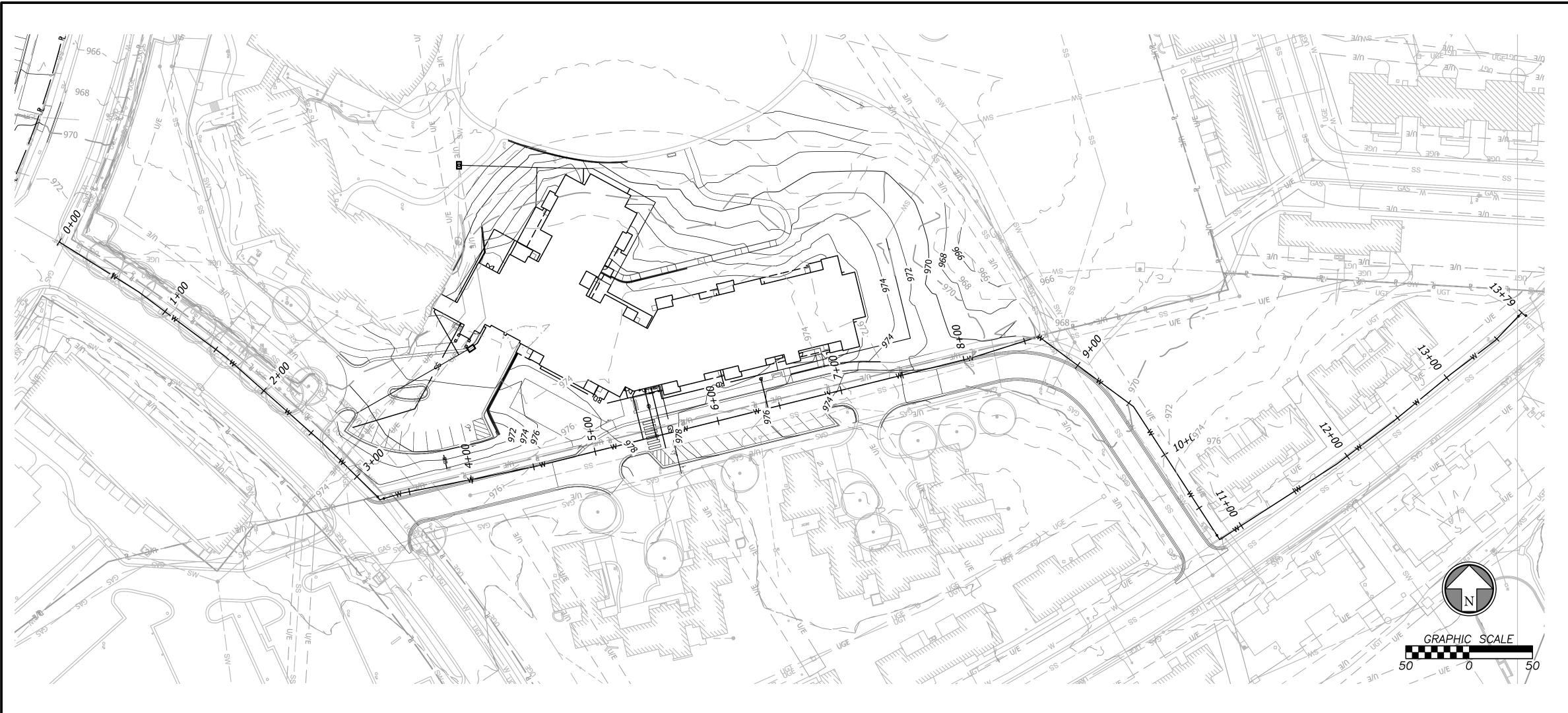




OVERALL WATER MAIN PLAN

Issue Date: 05/04/202 Project Number: 02880





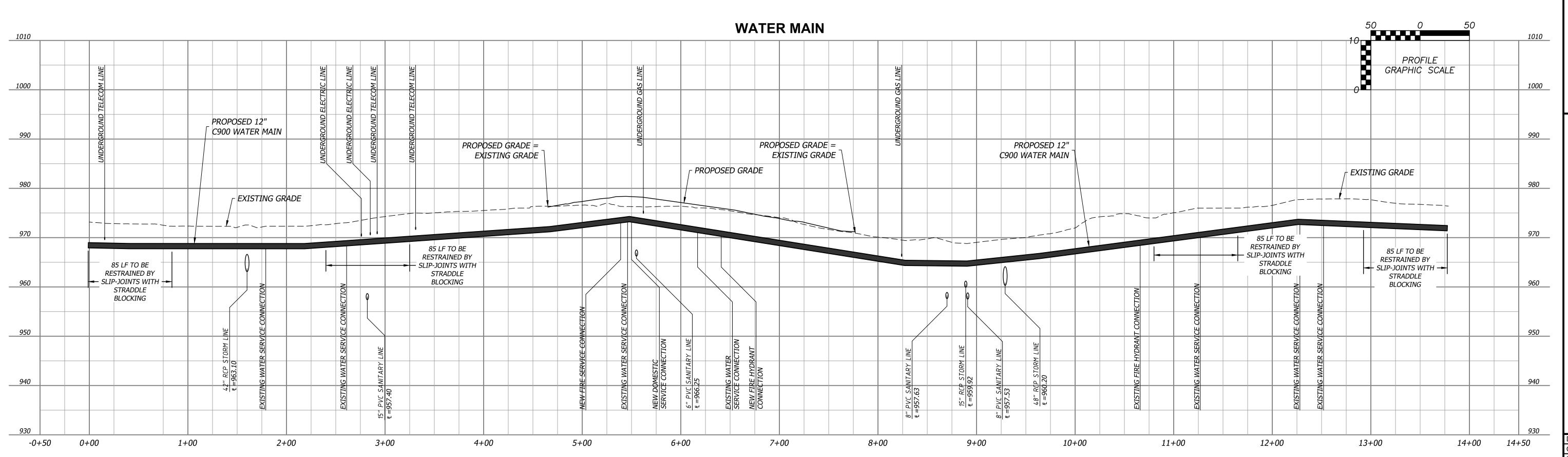
PHASING NOTES

- IN ORDER TO LIMIT THE AMOUNT OF TIME WATER USERS ARE WITHOUT WATER, THE CONSTRUCTION OF THIS WATER MAIN SHALL BE PHASED AS FOLLOWS:
- INSTALL STRADDLE BLOCK ON EXISTING WATER MAIN AT STATION

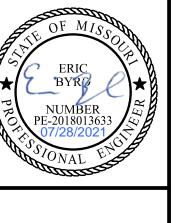
 1.70
- CUT AND CAP EXISTING WATER MAIN AT STATION 1+60.
- REMOVE THE FIRST 150' OF EXISTING WATER MAIN DURING THE INSTALLATION OF NEW 12" MAIN. THE REMAINDER OF THE WATER MAIN SHALL BE ABANDONED IN PLACE.
- START CONSTRUCTION OF NEW 12" WATER MAIN AT STATION 0+00, PER WATER MAIN CONNECTION DETAIL 4 ON SHEET 2.
- INSTALL THE NEW 12" WATER MAIN FROM STATION 0+00 TO
- APPROXIMATELY STATION 13+75.
 TEST AND FLUSH INSTALLED 12" WATER MAIN.
- CONNECT TO EXISTING WATER MAIN PER WATER MAIN CONNECTION DETAIL 1 ON SHEET 2.
- USING VARIOUS VALVE CLOSING AND OPENING PATTERNS,

 TRANSFER SERVICE TO ALL CUSTOMERS WITH A MAXIMUM.
- TRANSFER SERVICE TO ALL CUSTOMERS WITH A MAXIMUM SHUTDOWN TIME OF 8 HOURS.

 UPON COMPLETION OF ALL SERVICE TRANSFERS, INSTALL
- CONNECTIONS SHOWN IN WATER MAIN CONNECTION DETAILS 2
 AND 3 (ON SHEET 2).
- ABANDON EXISTING LINE FROM STATION 1+50 TO 13+75. WATER
 MAIN TO BE ABANDONED SHALL BE PLUGGED AT EACH END. A
 SECTION OF PIPE 10 FEET LONG SHALL BE CUT OUT OF THE
 EXISTING LINE AND WATER SHALL BE DRAINED OUT TO THE
 FULLEST EXTENT POSSIBLE. THE ENDS SHALL BE SEALED WITH A
 1-FOOT THICK PLUG OF NON-SHRINK GROUT SEALED WITH A
 PORTLAND CEMENT GROUT.
- 2. CONTRACTOR TO PROVIDE SUFFICIENT NOTICE TO WATER USERS PRIOR TO SHUT DOWN OF THEIR SERVICE.
- 3. CONTRACTOR TO NOTIFY DEVELOPMENT SERVICES INSPECTIONS PRIOR TO PERFORMING ANY SHUT-DOWNS.
- 4. THE CITY OF LEE'S SUMMIT IS THE ONLY PARTY ALLOWED TO TURN VALVES ON OR OFF.
- 5. DOOR HANGERS MUST BE PLACED ON AFFECTED CUSTOMERS AT LEAST 24 HOURS PRIOR TO THE SCHEDULED DISRUPTION.
- 6. MINIMUM NOTICE OF 48 HOURS SHALL BE GIVEN TO THE CITY OF LEE'S SUMMIT PRIOR TO ANY SHUTDOWN.
- ONCE WORK BEGINS ON A GIVEN PHASE, ALL WORK WITHIN THAT PHASE MUST BE CONTINUOUS UNTIL THE COMPLETION OF THAT PHASE.
- 8. THE MAXIMUM AMOUNT OF TIME FOR ANY WATER CUSTOMER TO BE WITHOUT SERVICE IS 8 HOURS.



Rev. Date Description By Apr



CIVIL ENGINEERING / SURVEYING / UTILITIES
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p. (913) 663-1900
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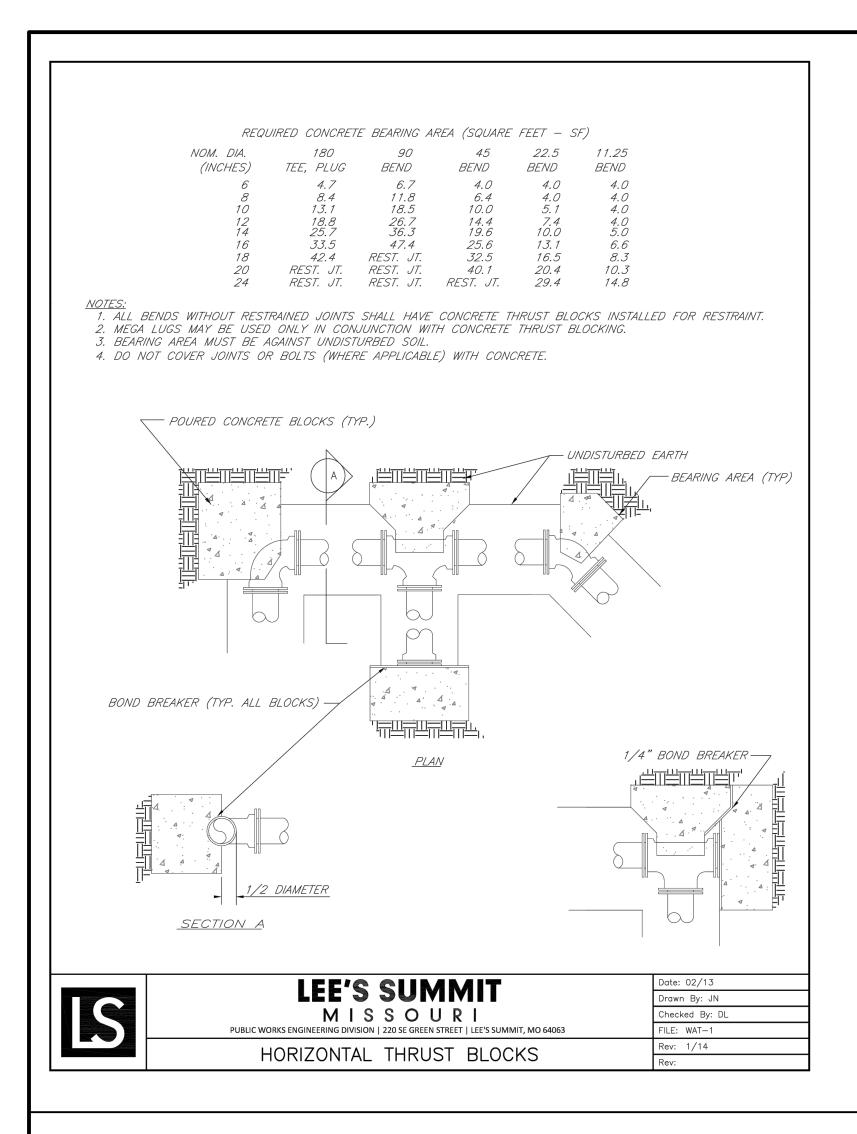
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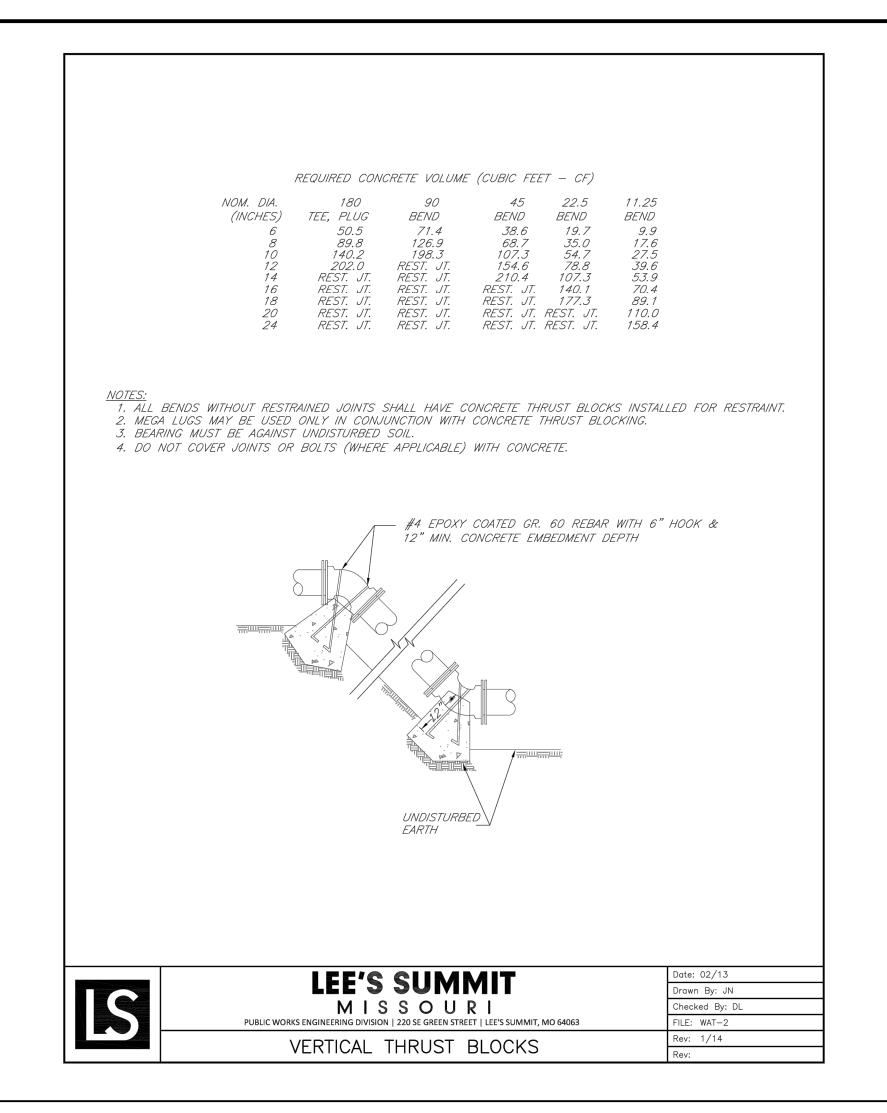
NOX VILLAGE MEADOWS
'S SUMMIT, MO 64081
R MAIN PLAN & PROFILE

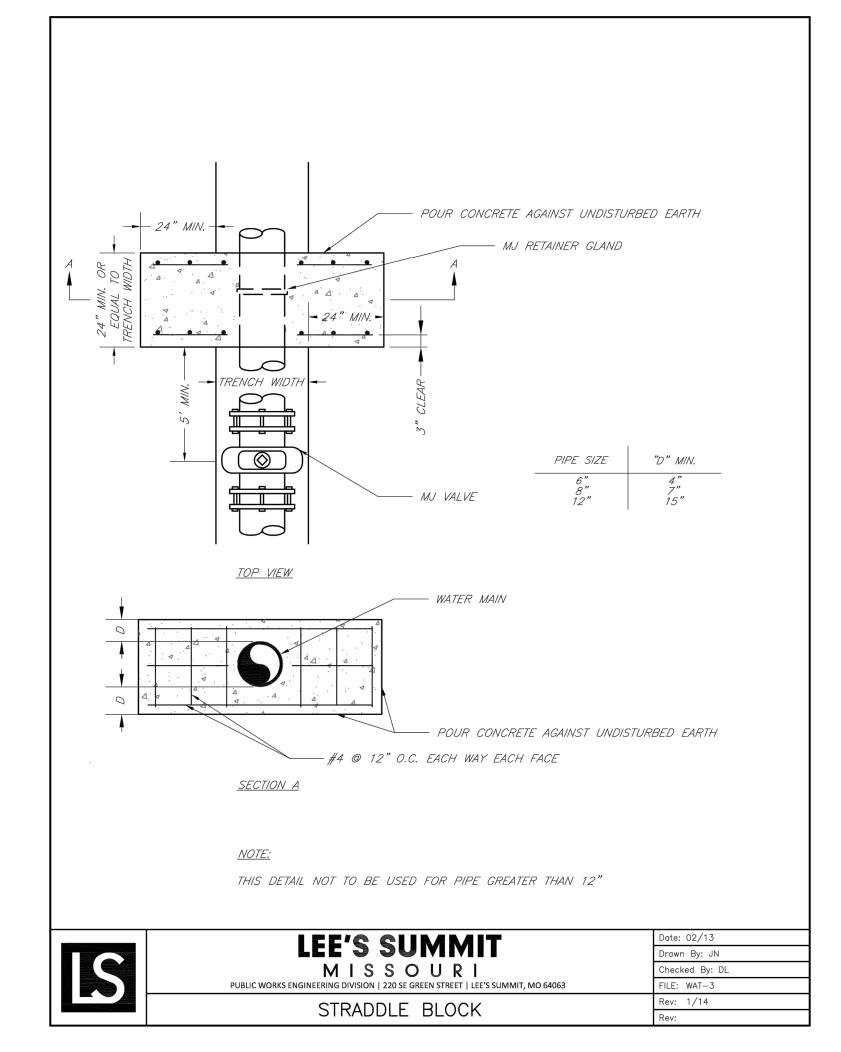
LEE'S SUMMIT, N
WATER MAIN PLAN

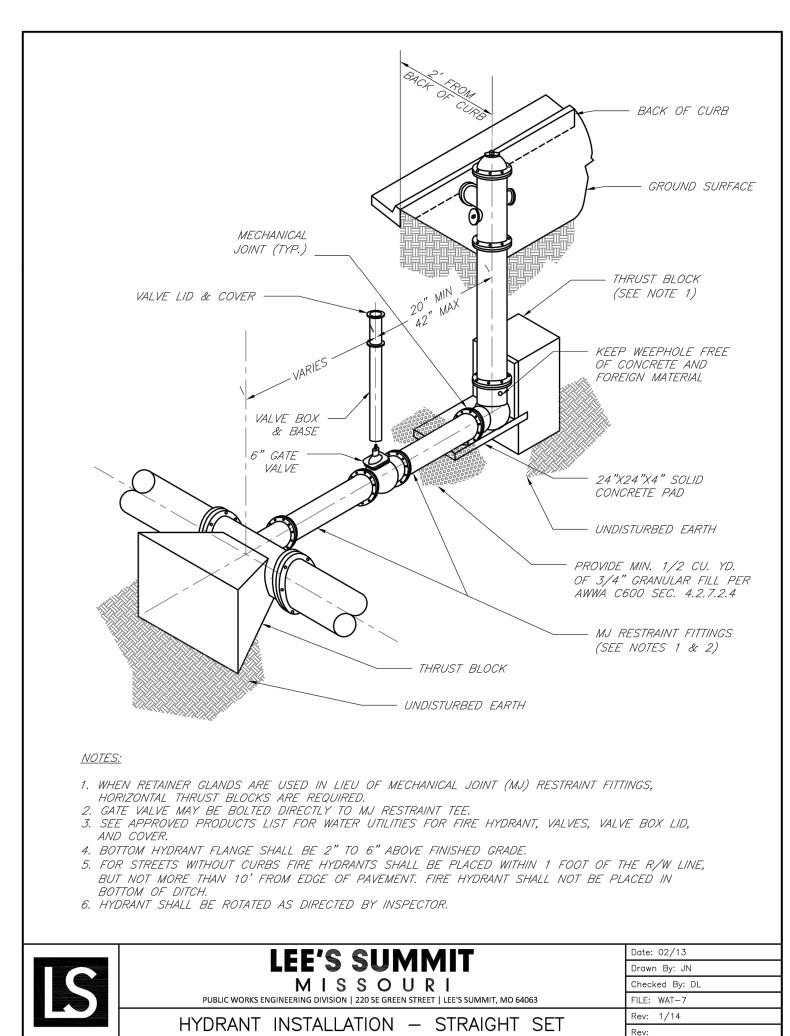
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Checked: ERB
Issue Date: 05/04/2021
Project Number: 028800

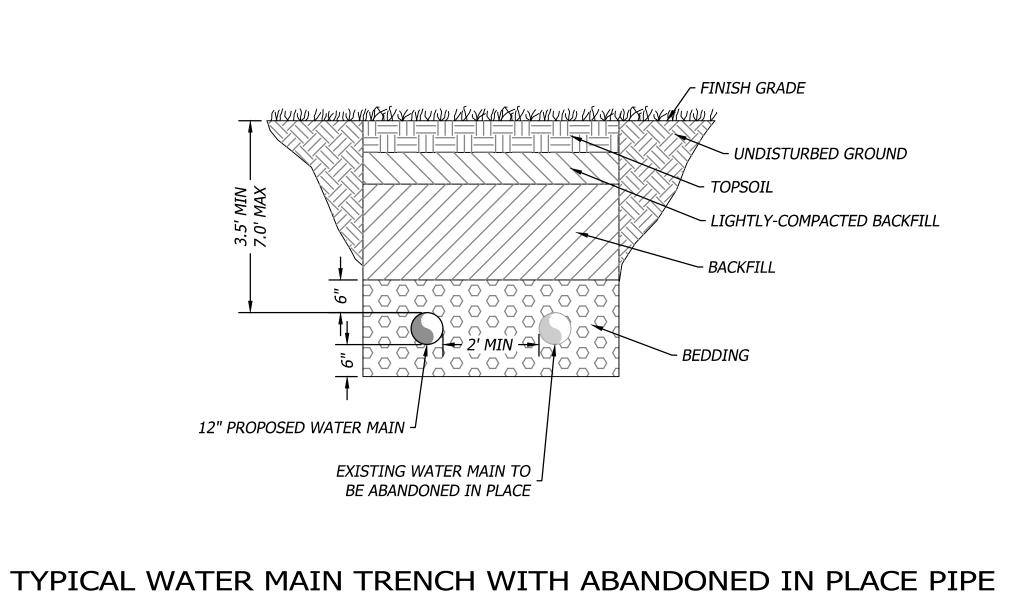
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