NW CHIPMAN RD.

## **UTILITY CONTACTS**

NOT TO SCALE

CITY OF LEE'S SUMMIT, MO

PLANNING AND DEVELOPMEN CITY HALL JOSH JOHNSON 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 TEL: (816) 969-1600 FAX: (816) 969-1619

PUBLIC WORKS
CITY HALL
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

TELEPHONE COMPANY

TEL: (800) 464-7928

TEL: (816) 969-1300

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
FAX: (816) 969-1935

ELECTRIC COMPANY EVERGY TEL: (888) 471-5275

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	EROSION CONTROL PLAN
5	WATER MAIN DETAILS
6	WATER MAIN DETAILS 2

BM/CP #5002

SET CUT "+" ± € OF CONCRETE SIDEWALK IN EAST CURB

RETURN, NORTH SIDE OF NORTHWEST O'BRIEN ROAD

NORTH = 1002910.185

EAST = 2814693.406

ELEVATION = 963.93

BENCHMARKS / CONTROL POINTS (DATUM: NAVD88)

BM/CP #13314

SET CUT "+" IN CONCRETE SIDEWALK, SOUTHWEST
CORNER OF NORTHWEST MOORE STREET &
NORTHWEST HOPE LANE (NOT SHOWN HEREON)
NORTH = 1003090.460
EAST = 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 = 1002830.710
EAST = 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

\_\_\_\_\_ DATF

PRSUBD20214083 PL2021150

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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

10/04/2021

Rev. Date Description By A





1001 NW CHIPMAN RD. LEE'S SUMMIT, MO 64081 816-251-8000

PUBLIC WATER MAIN IMPROVEMENTS JOHN KNOX VILLAGE MEADOWS LEE'S SUMMIT, MO 64081

Design: SKT Drawn: SKT
Checked: ERI
ssue Date: 09/24/202.
Project Number: 028800



### **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 640 LF OF 12" C900 WATER MAIN AND 740 LF OF 8" C900 WATER MAIN. INSTALL AT A MINIMUM DEPTH OF 42". REFER TO SHEET 3.
- INSTALL 8" 22.5° BEND WITH THRUST BLOCKING.
- INSTALL 8" 60° BEND WITH THRUST BLOCKING.
- INSTALL 8"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.
- INSTALL STRADDLE BLOCK. SEE DETAIL WAT-3 ON SHEET 4 FOR DETAIL. STRADDLE BLOCK SHALL BE INSTALLED ON PIECE OF PIPE THAT CONNECTS TO THE CLOSET MECHANICAL JOINT AND TEE/CROSS CONNECTIONS. SEE JOINT RESTRAINT NOTE.
- APPROXIMATE LOCATION OF EXISTING SERVICE CONNECTION. SEE DETAIL WAT-11 ON SHEET 4.
- EXISTING VALVE TO REMAIN.
- 11 INSTALL 12" BUTTERFLY VALVE IF AVAILABLE EITHER THROUGH THE MARKET OR THE CITY OF LEE'S SUMMIT WATER DEPARTMENT. IF NOT AVAILABLE, INSTALL 12" GATE VALVE, ONLY IF SPECIFIC WRITTEN APPROVAL IS
- GRANTED BY THE CITY OF LEE'S SUMMIT. INSTALL 8" GATE VALVE.
- INSTALL 8"X6" REDUCER.
- INSTALL 12"X6" TEE WITH THRUST BLOCKING. SEE JOINT RESTRAINT NOTE. INSTALL 12"X8" REDUCER NORTH OF TEE. RESTRAIN ALL MECHANICAL

### JOINTS AND ANY JOINTS BETWEEN THE TEE AND REDUCER.

#### JOINT RESTRAINT NOTE

1. ALL JOINTS BETWEEN STRADDLE BLOCKS AND REDUCERS SHALL BE RESTRAINED. ANY JOINT BETWEEN THE STRADDLE BLOCK AND THE CLOSEST MECHANICAL JOINT SHALL BE RESTRAINED IF THE STRADDLE BLOCK IS MOVED FARTHER FROM THE CONNECTION.

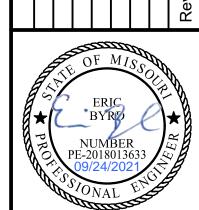
#### SERVICE LINE RECONNECTION NOTE

WATER MAIN CONNECTION DETAIL 2

WATER MAIN

CONNECTION DETAIL 4

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** 

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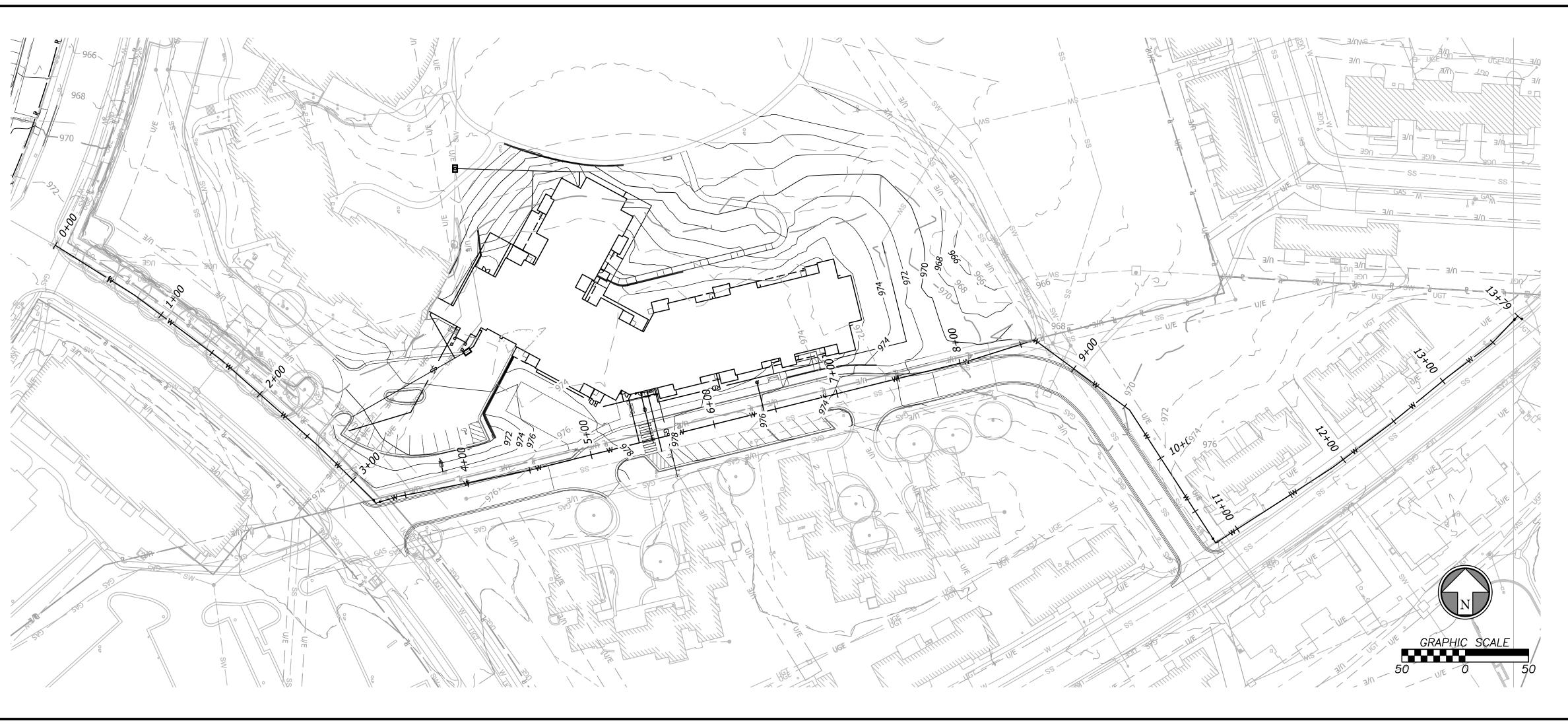
# **UTILITY GENERAL NOTES**

- 1. CONTRACTOR SHALL REFER TO ALL SPECIFICATIONS, GUIDELINES, AND INSTALLATION DRAWINGS FROM THE CITY OF LEE'S SUMMIT, EVERGY, AND SPIRE 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

WATER MAIN CONNECTION DETAIL 1

WATER MAIN

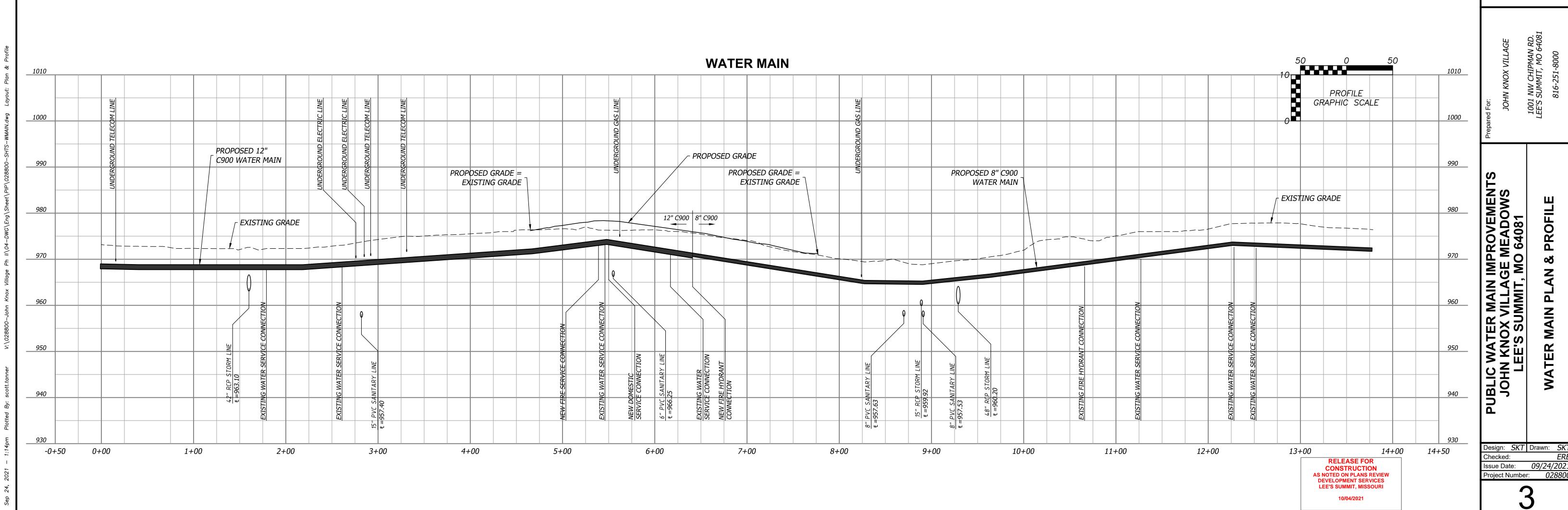
CONNECTION DETAIL 3

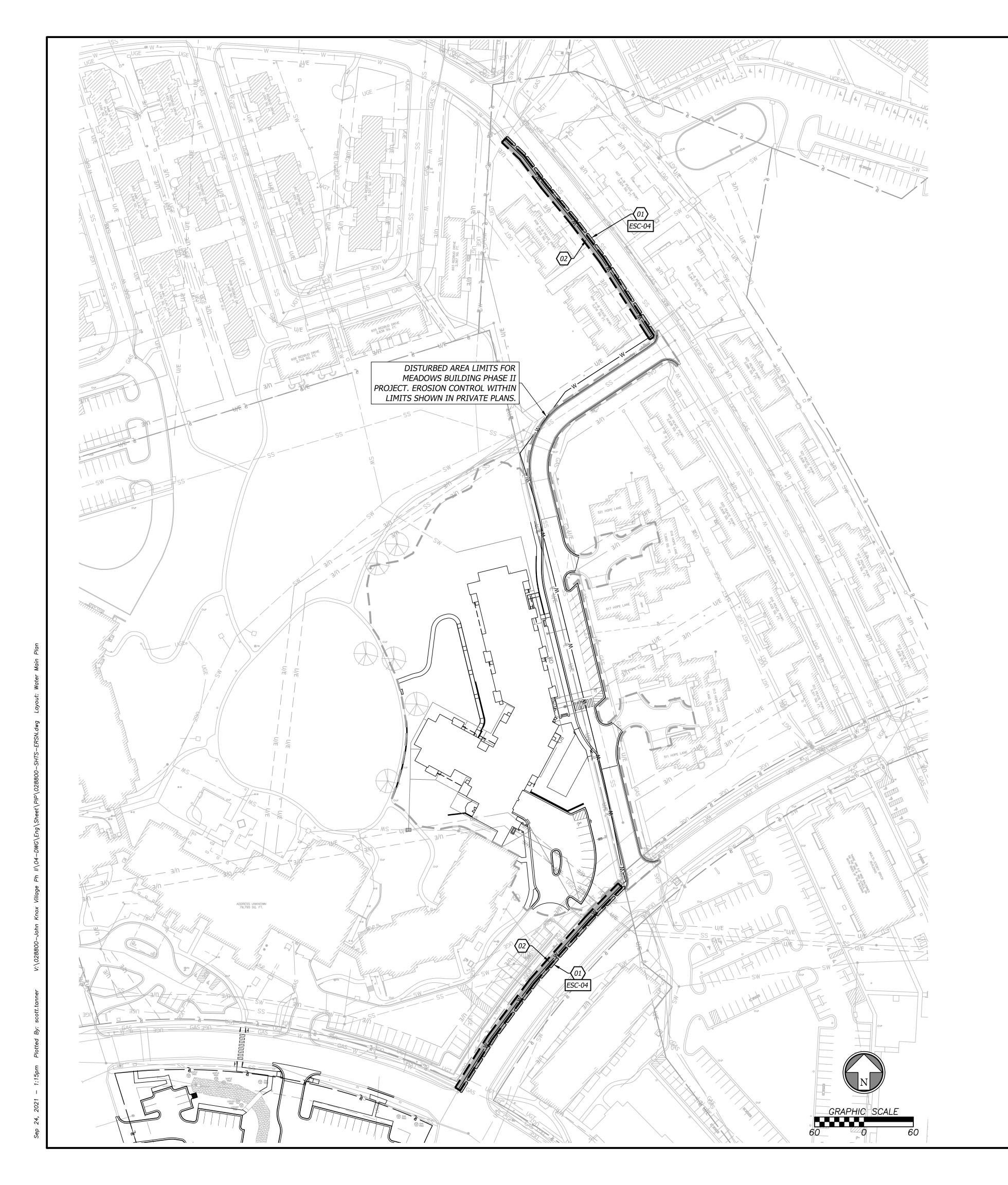


#### PHASING NOTES

- 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 STATION 6+40. INSTALL THE NEW 8" WATER MAIN FROM STATION 6+40 TO STATION 13+75.
- TEST AND FLUSH INSTALLED 8" AND 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 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.
- 7. 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.







01 EROSION CONTROL WATTLE / BIODEGRADABLE LOG (TYP.) TO BE PLACED AT BACK OF CURB 02 CONTRACTOR TO RESTORE AREAS DISTURBED BY WATER MAIN CONSTRUCTION TO PREVIOUS CONDITION. GRASSY AREAS DISTURBED TO BE RESTORED WITH SOD.

#### **EROSION CONTROL LEGEND**

WATER MAIN DISTURBED AREA LIMITS (0.07 AC)

PRIVATE PROJECT DISTURBED AREA LIMITS (0.07 AC)

DISTURBED AREA TO BE RESTORED

STRAW WATTLE / BIODEGRADABLE LOG

**DETAILS** 

SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING

ESC-04 APWA WATTLE / BIODEGRADABLE LOG DETAIL

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JOHN KNOX VILLAGE 1001 NW CHIPMAN RD. LEE'S SUMMIT, MO 64081

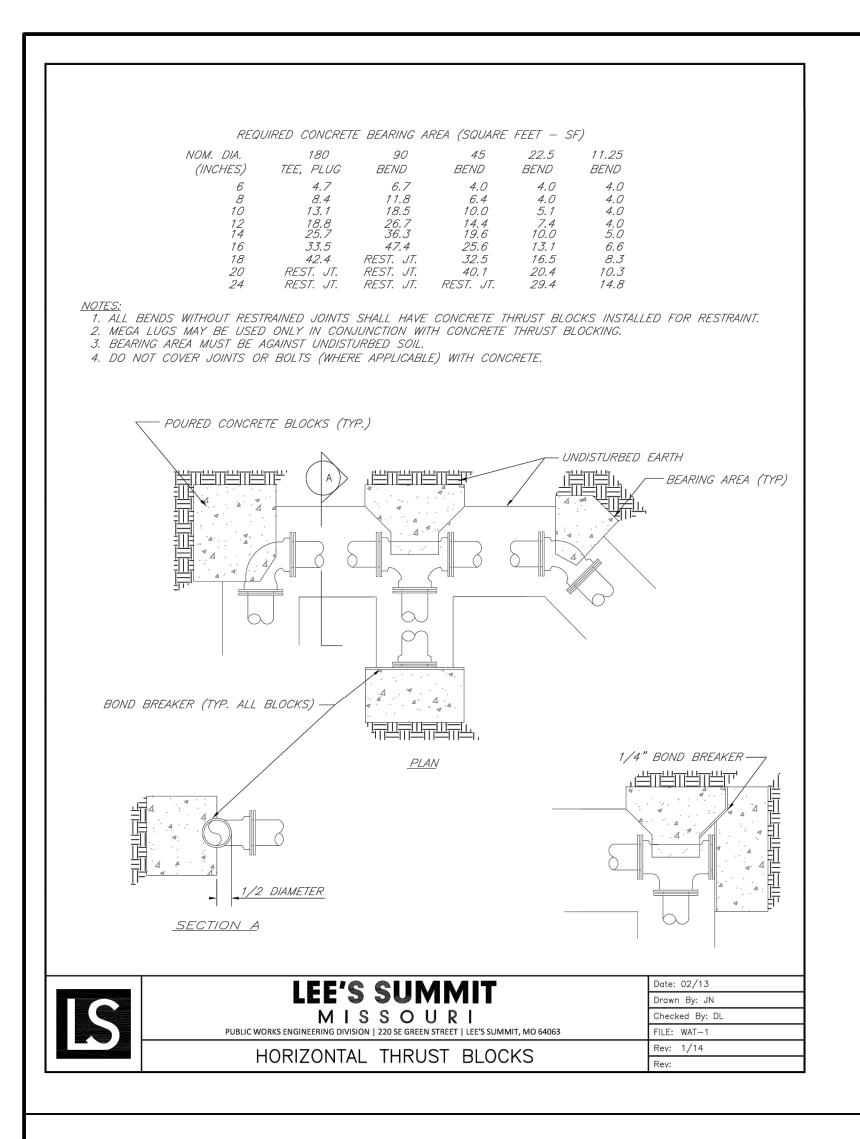
IN KNOX VILLAGE MEADOWS
LEE'S SUMMIT, MO 64081
EROSION CONTROL PLAN

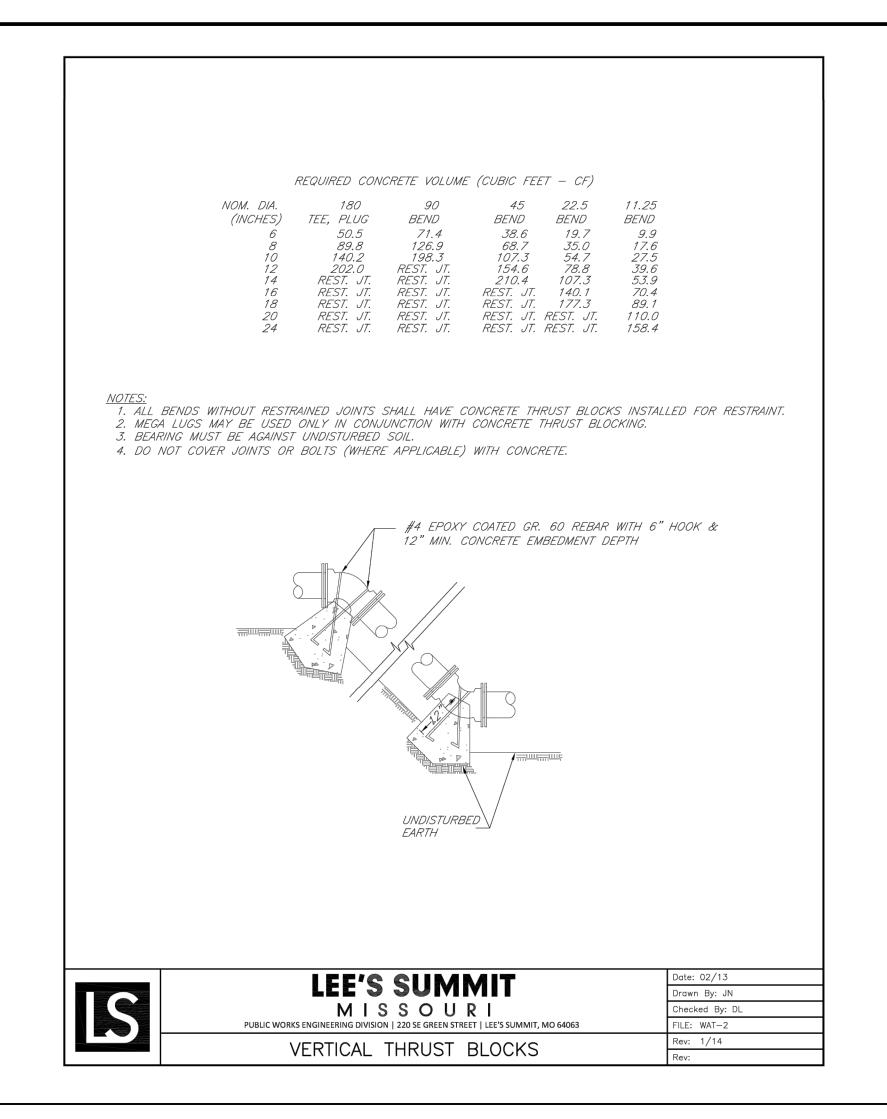
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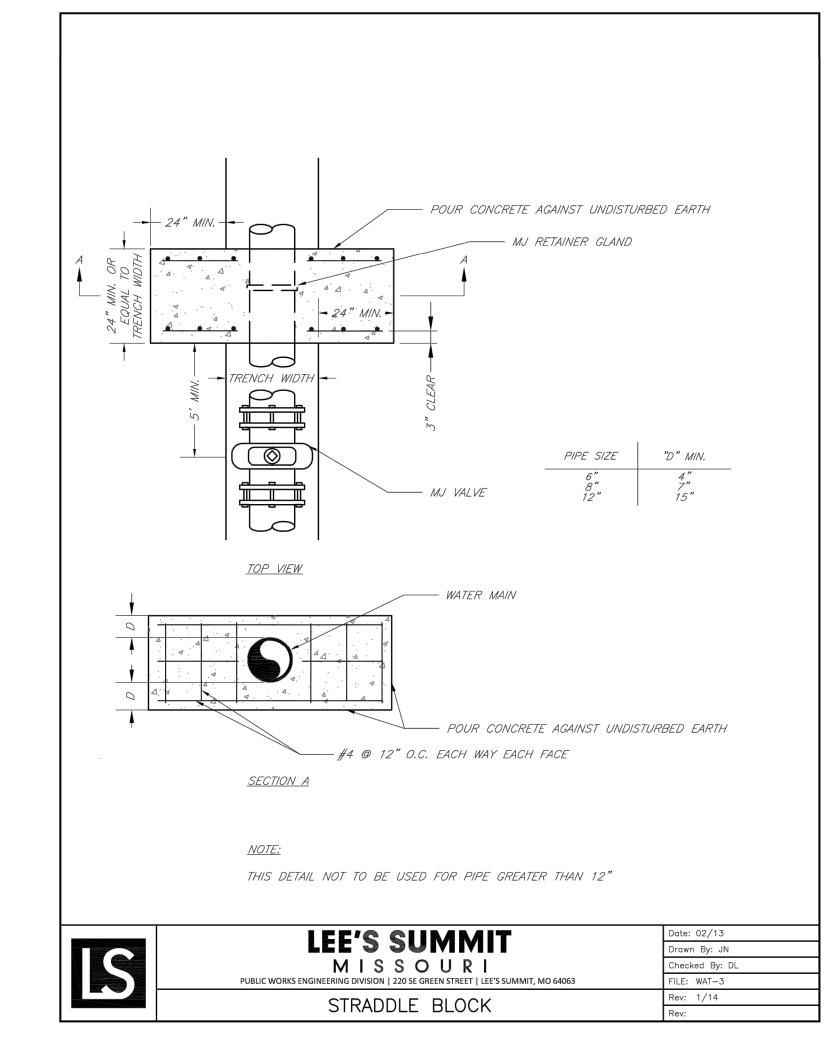
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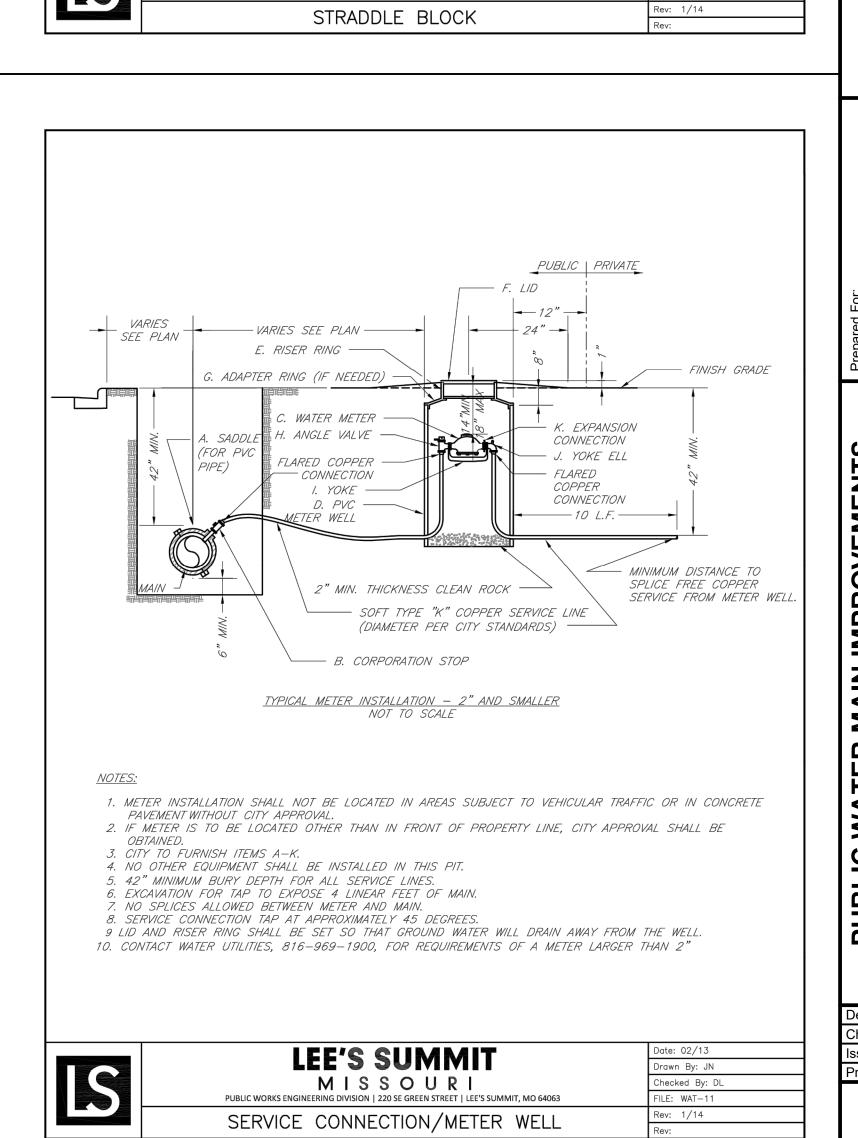
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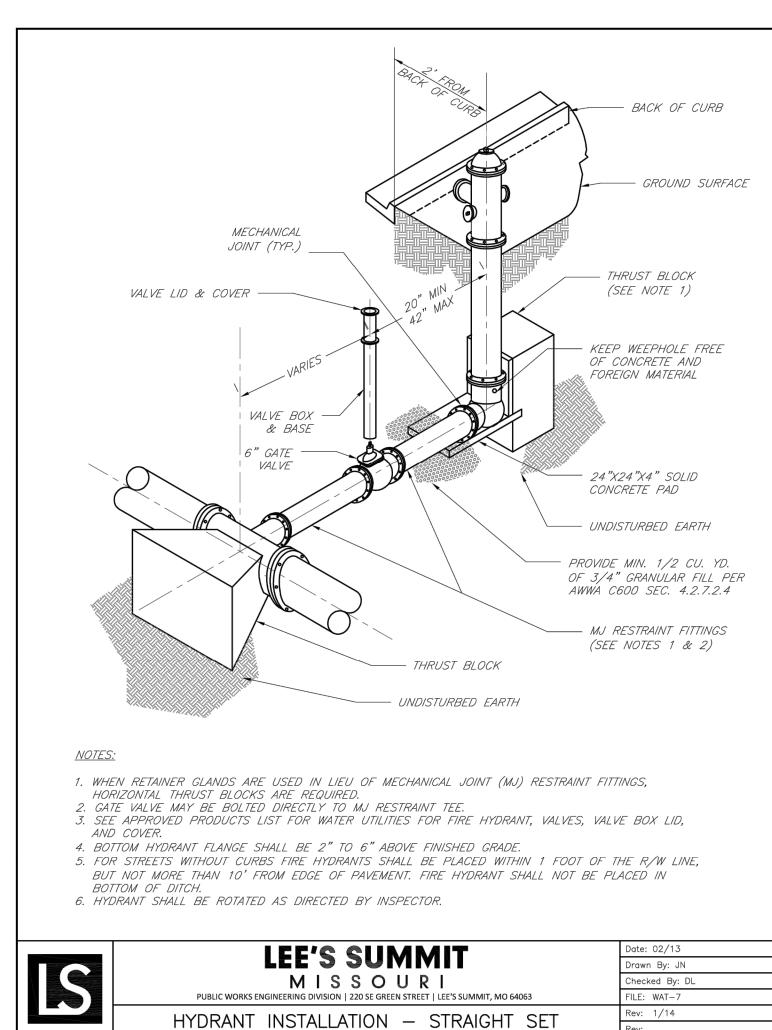
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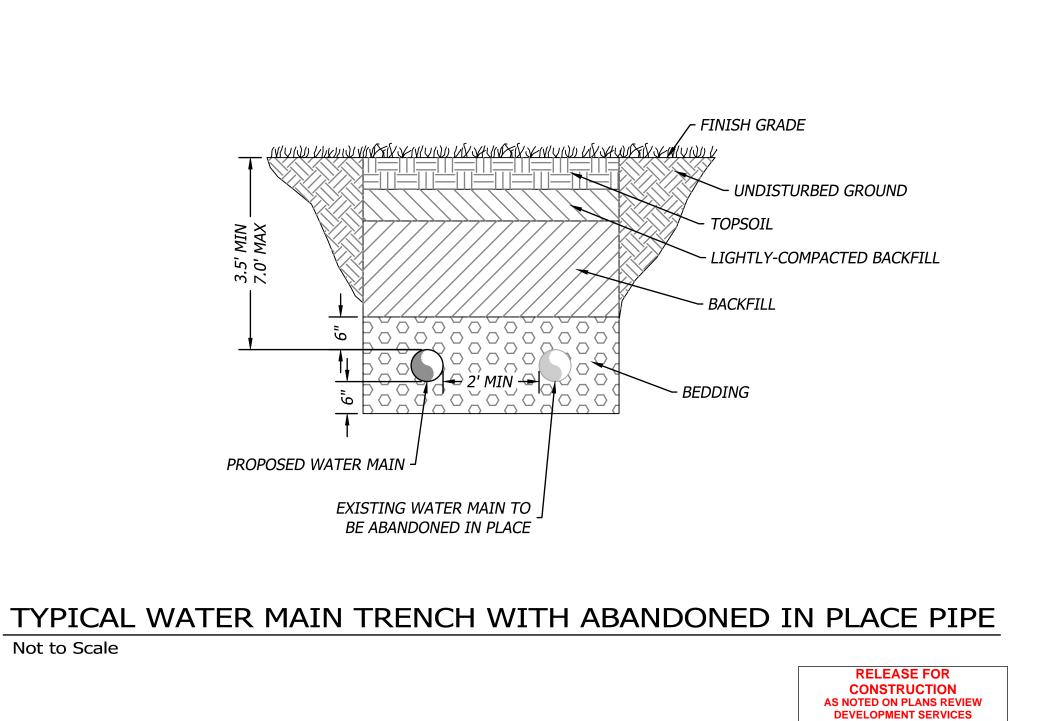






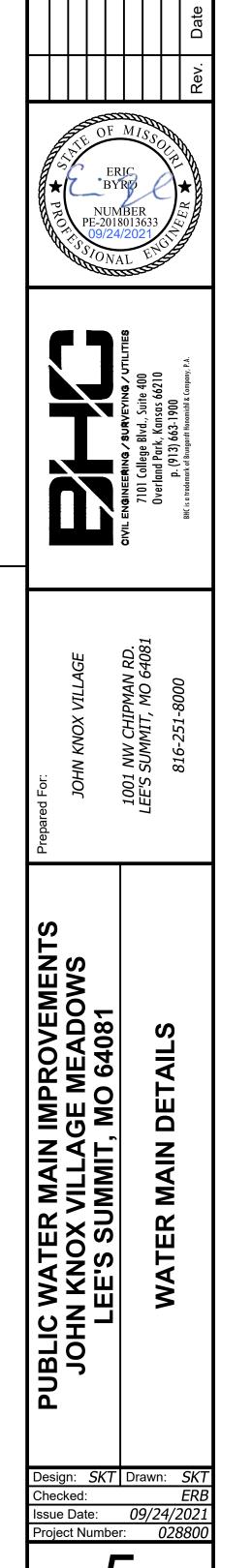


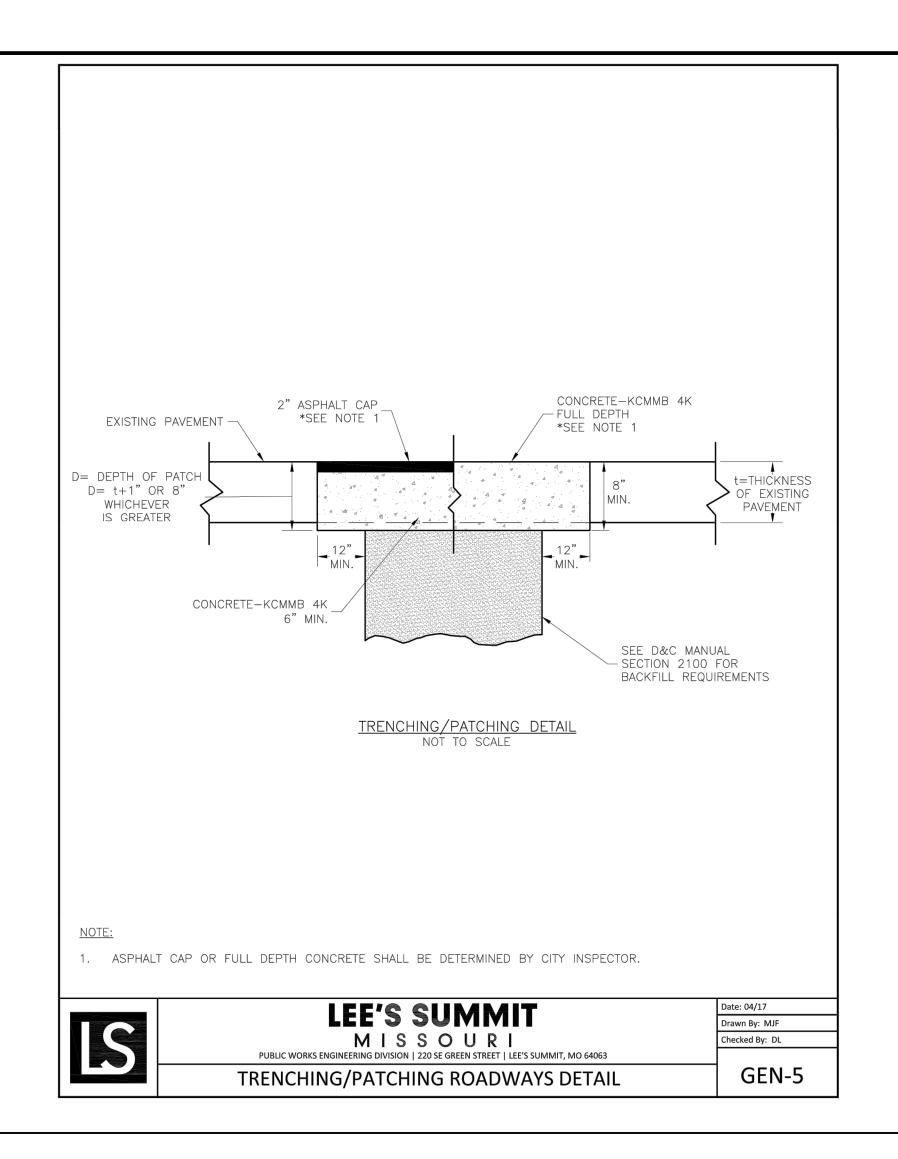


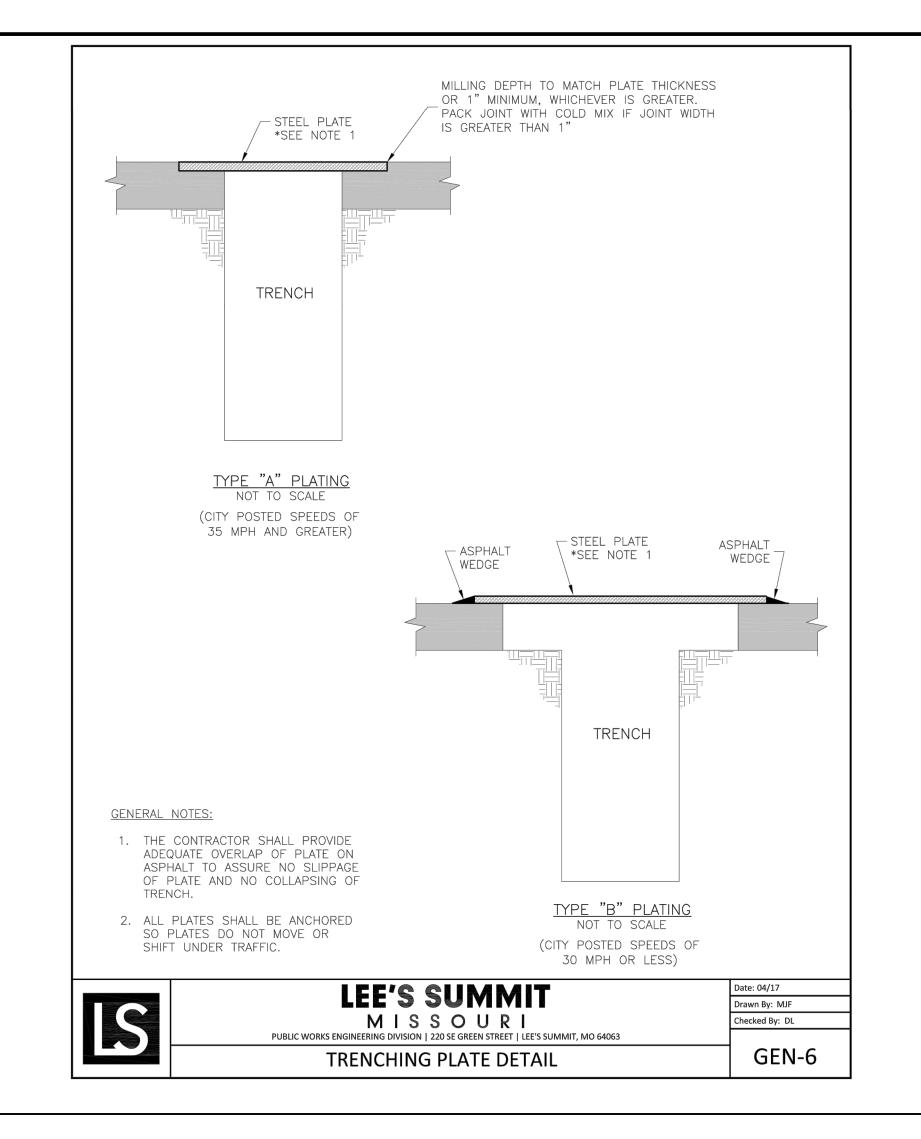


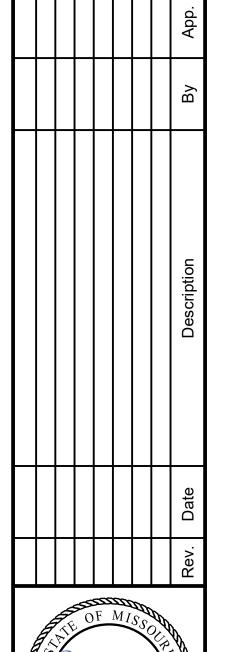
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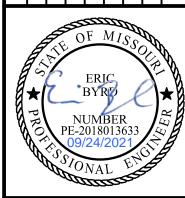
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1001 NW CHIPMAN RD. LEE'S SUMMIT, MO 64081 JOHN KNOX VILLAGE

WATER MAIN DETAILS

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