

DOWNTOWN LEE'S SUMMIT APARTMENTS

PUBLIC SANITARY SEWER IMPROVEMENTS

CITY OF LEE'S SUMMIT, MO

JACKSON COUNTY

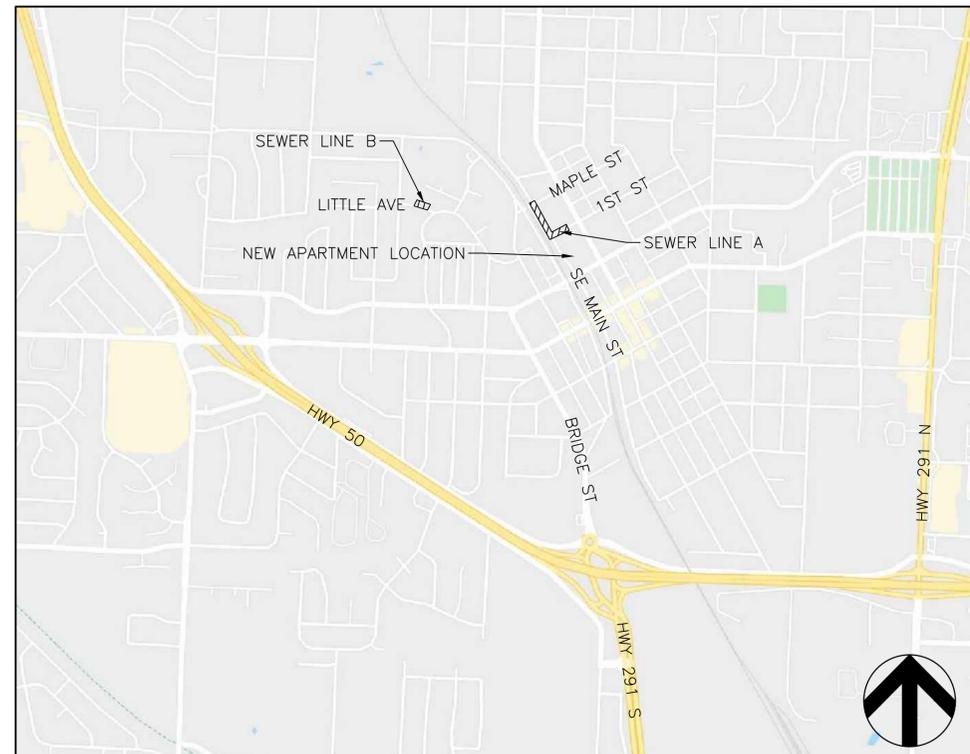


HDR Engineering, Inc.
 MO. STATE CERTIFICATE OF
 AUTHORITY #000856
 10450 HOLMES ROAD, SUITE 600
 KANSAS CITY, MO 64131
 PH: 816-360-2700
 FX: 816-360-2777

Red Line As-Built - Breit Construction
 All site utilities installed +/- .1' unless
 otherwise noted

INDEX OF DRAWINGS

- 01 COVER SHEET
- 02 PUBLIC SEWER LINE A - PLAN & PROFILE
- 03 PUBLIC SEWER LINE B - PLAN & PROFILE
- 04 MISCELLANEOUS DETAILS
- 05 MISCELLANEOUS DETAILS
- 06 MISCELLANEOUS DETAILS



SITE LOCATION MAP
 N.T.S.

MARCH 2020
 10186909

UTILITIES

ELECTRIC - KCP&L	816-471-5275
TELEPHONE - AT&T	816-325-5607
GAS - SPIRE	816-756-5252
CABLE - CHARTER SPECTRUM	816-358-8833
WATER - LEE'S SUMMIT WATER UTILITIES	816-969-1900
SEWER - LEE'S SUMMIT PUBLIC WORKS	816-969-1800



Know what's below.
 Call before you dig.

UTILITY NOTES:

VISUAL INDICATIONS OF UTILITIES ARE AS SHOWN. UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES IN MISSOURI, CALL 811, or 1-800-344-7483. BE IT NOTED THAT ONLY PART OF THE UNDERGROUND TELEPHONE LINES WERE MARKED FOR THE SITE SURVEY AND THESE PLANS AS EVIDENCED BY TELEPHONE PEDESTALS WITHOUT CORRESPONDING UNDERGROUND CABLE. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT THESE LINES THE SAME AS IF THEY HAD BEEN LOCATED AND SHOWN ON THESE PLANS.



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 KANSAS CITY, MO 64131
 816-360-2700

ISSUE	DATE	DESCRIPTION
2	03-23-20	CITY RESUBMITTAL
1	12-31-19	CITY REVIEW

PROJECT MANAGER

CIVIL	M. WIEBELHAUS
PROJECT NUMBER	10186909



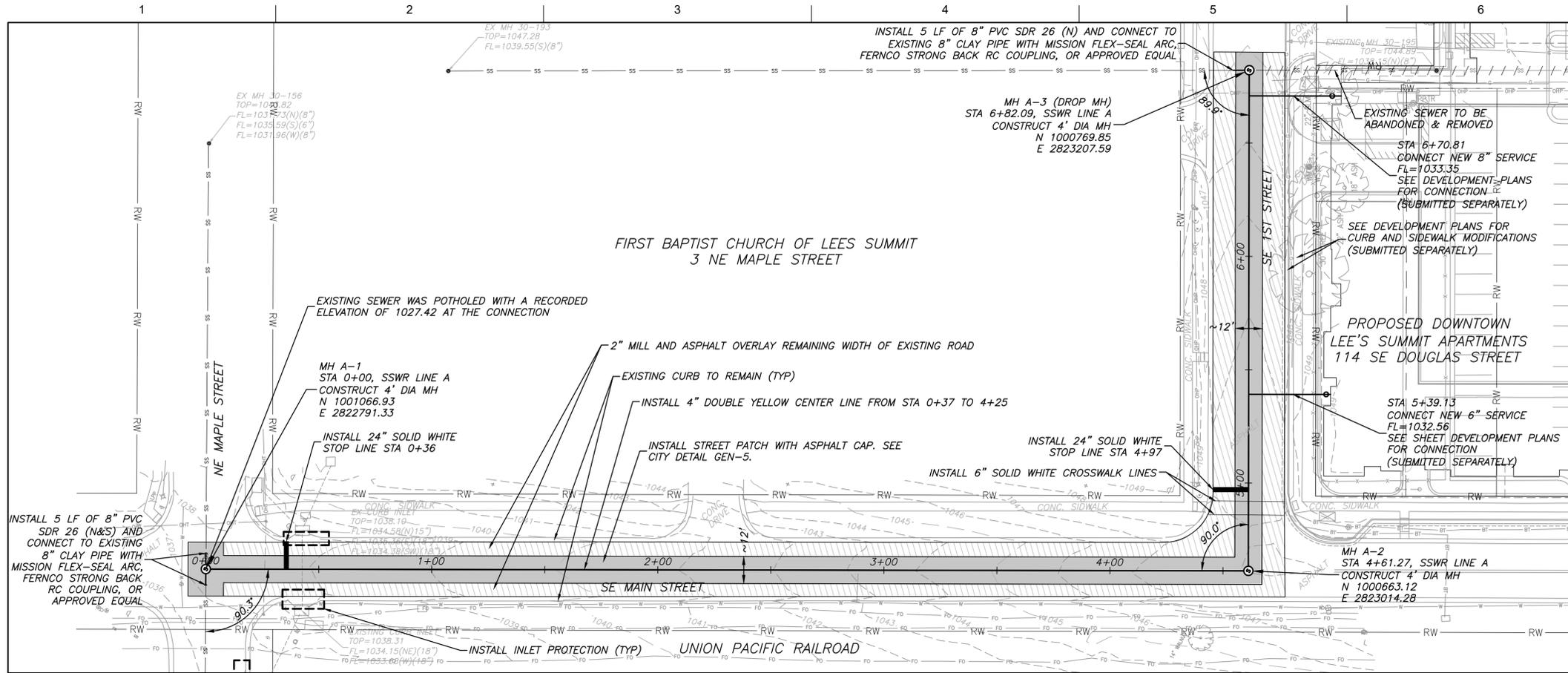
DOWNTOWN LEE'S SUMMIT APARTMENTS
 PUBLIC SANITARY SEWER IMPROVEMENTS
 114 S.E. DOUGLAS STREET
 LEE'S SUMMIT, MISSOURI



COVER SHEET

FILENAME | 10186909-Cover.dwg
 SCALE | AS NOTED

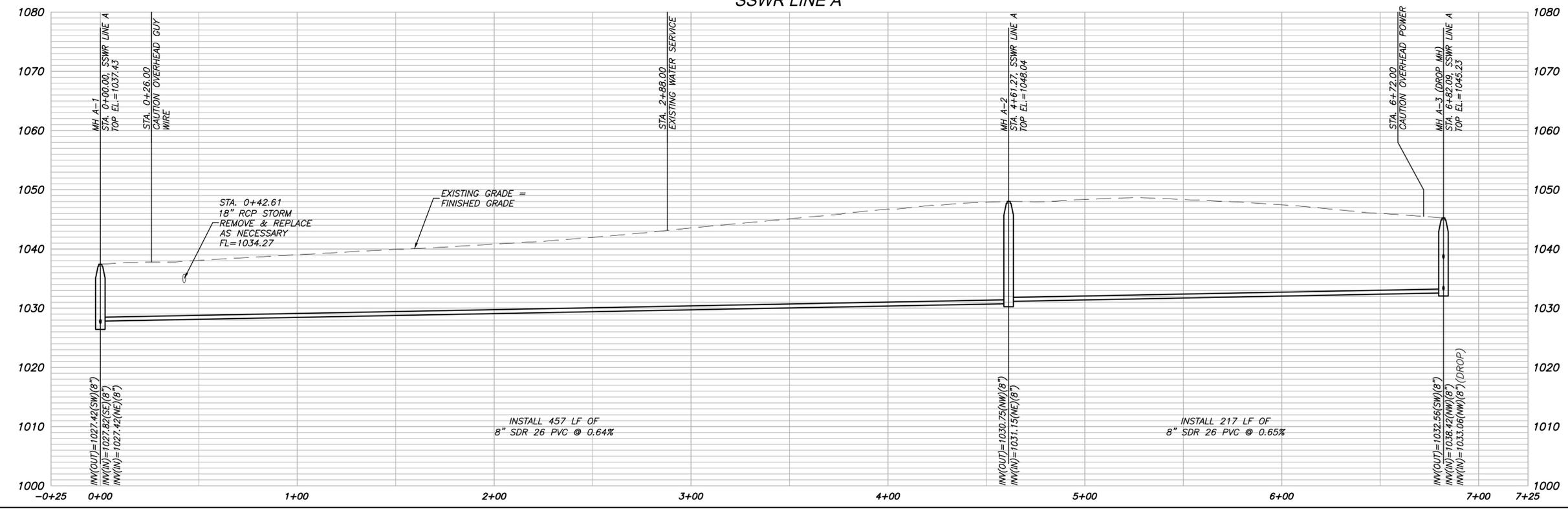
SHEET
01



HORZ. SCALE: 1"=30'
VERT. SCALE: 1"=10'

- GENERAL NOTES:**
1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT, THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA), AND THE MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR).
 2. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE CITY OF LEE'S SUMMIT, MISSOURI.
 3. THE UTILITY LOCATIONS SHOWN ON THESE DRAWINGS WERE DEVELOPED FROM INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE.
 4. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE STATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE.
- THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC.": 811. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI.
- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE ADJACENT AND DOWNSTREAM PROPERTY OWNERS FROM STORM WATER, SILT AND EROSION DURING ALL PHASES OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
 6. LOCAL ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
 7. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING ANY WATER MAINS OR GAS MAINS HORIZONTALLY AND VERTICALLY WHEN CROSSING UNDER THE EXISTING MAIN(S). IF APPLICABLE THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING ANY WATER MAIN OR GAS MAIN LATERALLY, WHILE WORKING ALONGSIDE ANY MAIN(S).
 8. CONTRACTOR MUST COORDINATE THE BRACING OF ALL UTILITY POLES PRIOR TO ANY EXCAVATION WITHIN 10 FEET OF A POLE.
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SSWR LINE A



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LEE'S SUMMIT, MISSOURI**

**PUBLIC SEWER LINE A
PLAN & PROFILE**

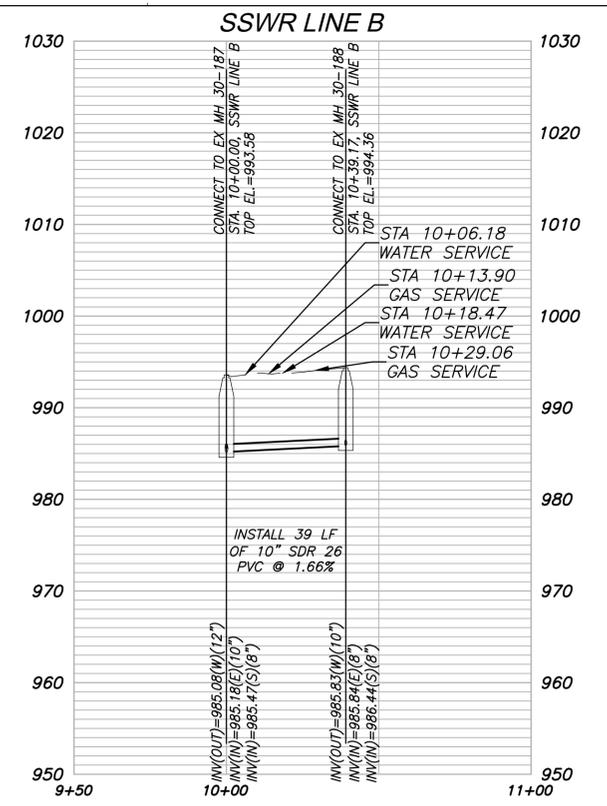
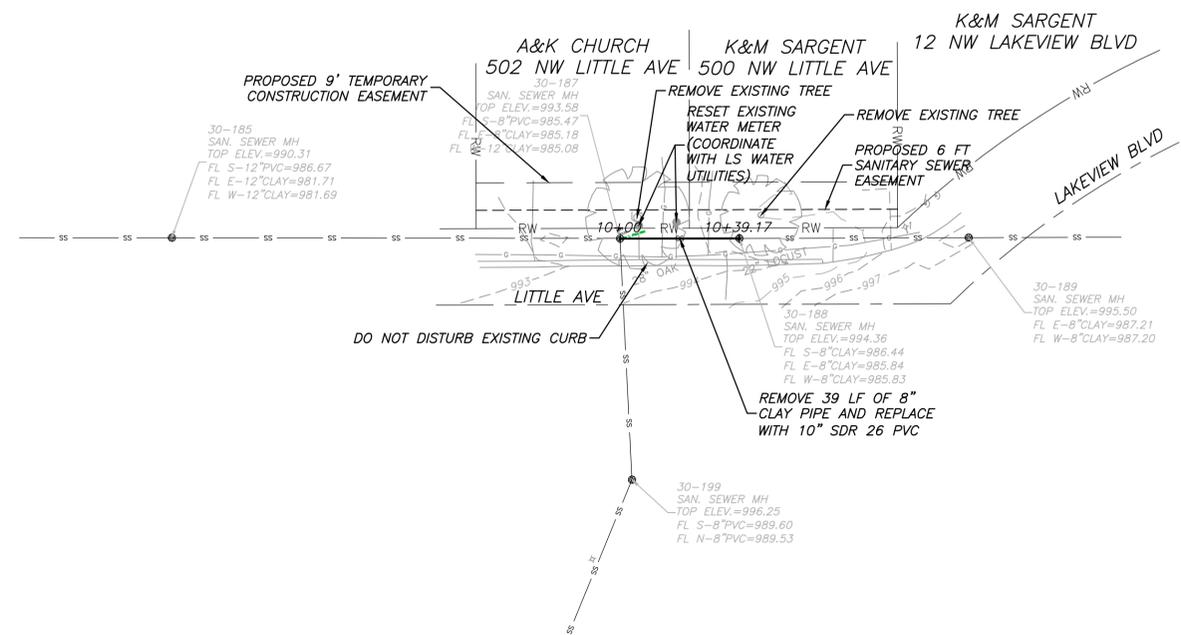
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FILENAME 01C-BP02-30.dwg
SCALE AS NOTED



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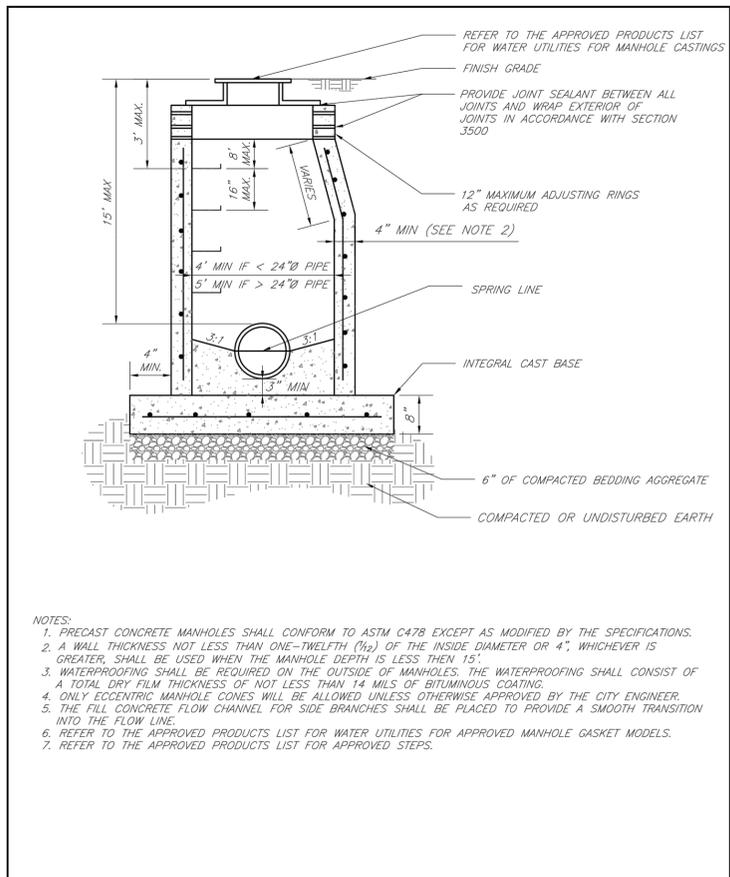
ISSUE	DATE	DESCRIPTION
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1	12-31-19	CITY REVIEW

PROJECT MANAGER	
CIVIL	M. WIEBELHAUS
PROJECT NUMBER 10186909	

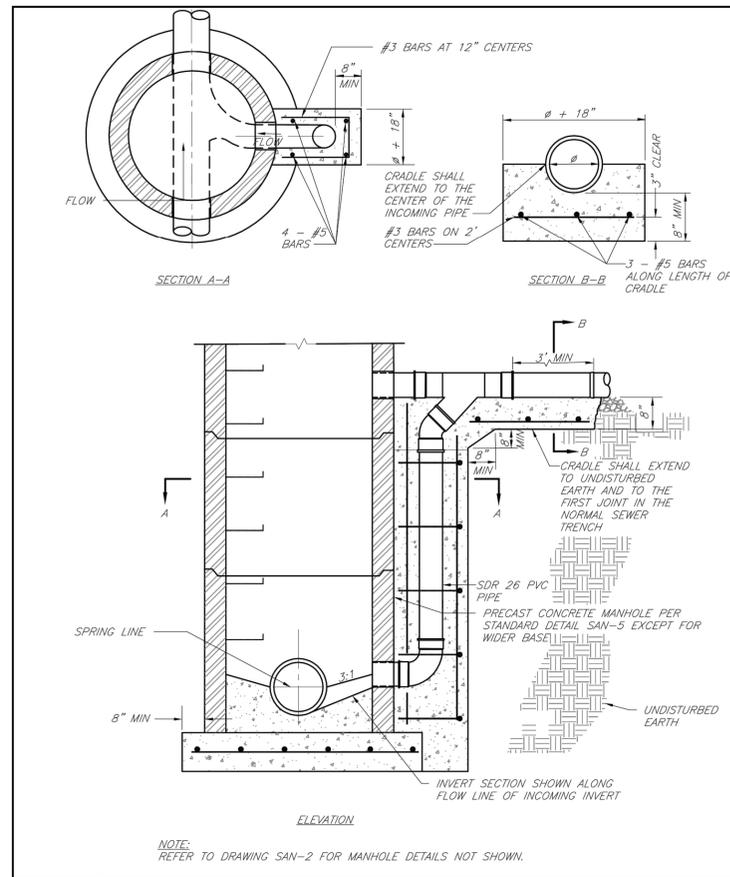


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LEE'S SUMMIT, MISSOURI

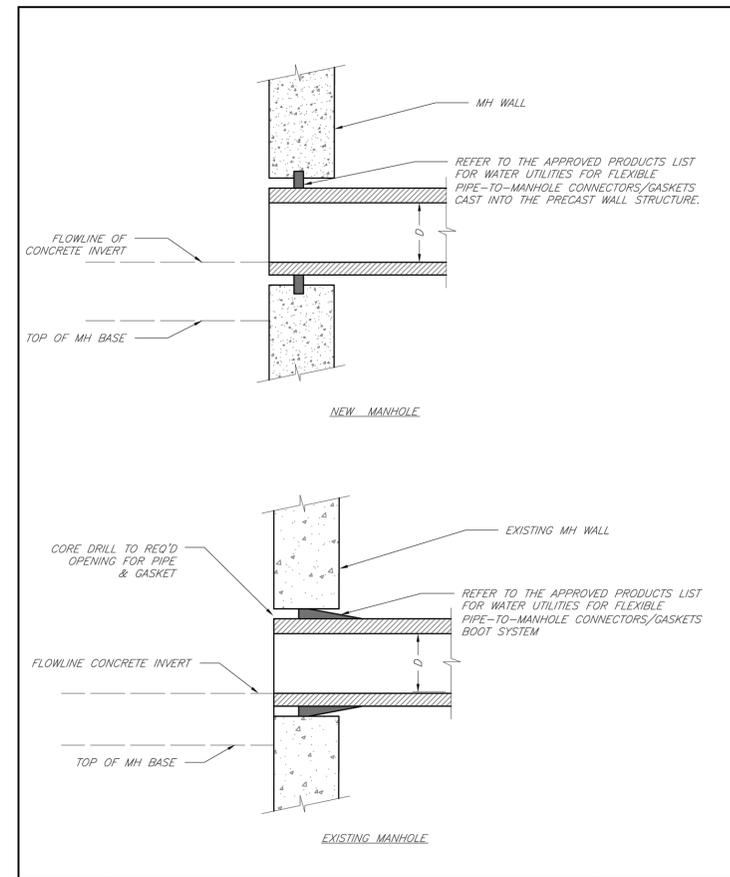
PUBLIC SEWER LINE B PLAN & PROFILE	
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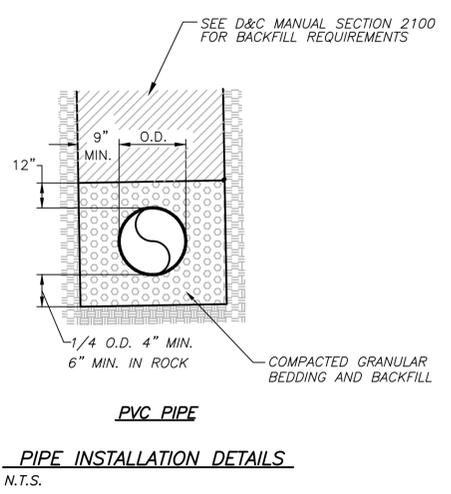
LS	LEE'S SUMMIT MISSOURI	Date: 02/13
	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Drawn By: JN
	STANDARD PRECAST MANHOLE - SANITARY SEWER	Checked By: DL
		FILE: SAN-2
		Rev: 1/14



LS	LEE'S SUMMIT MISSOURI	Date: 02/13
	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Drawn By: JN
	DROP SANITARY SEWER MANHOLE	Checked By: DL
		FILE: SAN-4
		Rev: 1/14



LS	LEE'S SUMMIT MISSOURI	Date: 02/13
	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Drawn By: JN
	MANHOLE WALL CONNECTIONS	Checked By: DL
		FILE: SAN-5
		Rev: 1/14



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PUBLIC SANITARY SEWER IMPROVEMENTS**
114 S.E. DOUGLAS STREET
LEE'S SUMMIT, MISSOURI

MISCELLANEOUS DETAILS

0 1" 2"

FILENAME | 01C-BP02-30.dwg
SCALE | AS NOTED

STANDARD INSTALLATION
NOT TO SCALE

VERTICAL RISER
NOT TO SCALE

NOTES:

- ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN, WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
- ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
- IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
- TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
- SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
- #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
- FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
- TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
- THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

LS	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Date: 04/17
	BUILDING SEWER STUB AND RISER	Drawn By: MIF
		Checked By: DL
	SAN-1	

TYPICAL METER INSTALLATION - 2" AND SMALLER
NOT TO SCALE

NOTES:

- METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
- IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
- CITY TO FURNISH ITEMS A-K.
- NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
- 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES.
- EXCAVATION FOR TAP TO EXPOSE 4' LINEAR FEET OF MAIN.
- NO SPLICES ALLOWED BETWEEN METER AND MAIN.
- SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
- LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
- CONTACT WATER UTILITIES, 816-969-1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"

LS	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Date: 02/13
	SERVICE CONNECTION/METER WELL	Drawn By: JN
		Checked By: DL
		FILE: WAT-11 Rev: 1/14 Rev:

TRENCHING/PATCHING ROADWAYS DETAIL
NOT TO SCALE

NOTE:

- ASPHALT CAP OR FULL DEPTH CONCRETE SHALL BE DETERMINED BY CITY INSPECTOR.

LS	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Date: 04/17
	TRENCHING/PATCHING ROADWAYS DETAIL	Drawn By: MIF
		Checked By: DL
	GEN-5	



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CIVIL		M. WIEBELHAUS
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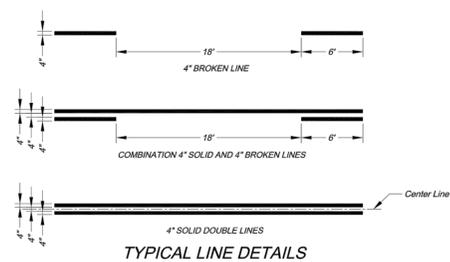


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114 S.E. DOUGLAS STREET
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MISCELLANEOUS DETAILS

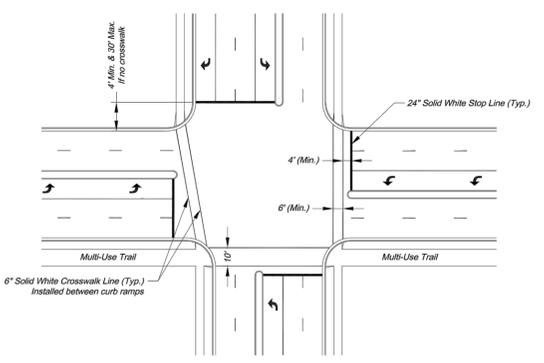


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SCALE | AS NOTED



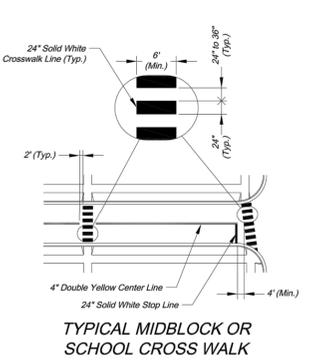
TYPICAL LINE DETAILS

NOTES:
 1. All edge line, center line, and lane line pavement markings shall be 4" wide unless otherwise noted.
 2. Edge lines shall be continuous solid white or yellow lines. Right side edge lines shall be solid white. Median or left side edge lines on divided roadways are to be solid yellow. Edge lines and center lines shall be continuous across driveways.

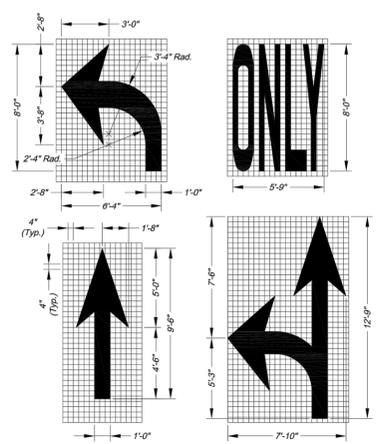


TYPICAL INTERSECTION MARKINGS

NOTES:
 1. Transverse crosswalk lines shall be installed such that the distance between lines is at least 6' or 10' feet.
 2. Stop lines are required at signalized intersections, on multi-lane stop controlled approaches, or in front of crosswalks at controlled intersections.

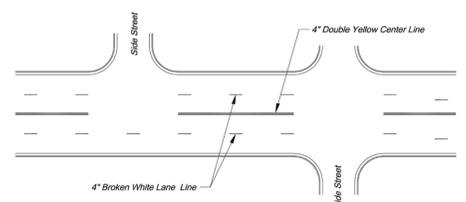


TYPICAL MIDBLOCK OR SCHOOL CROSS WALK

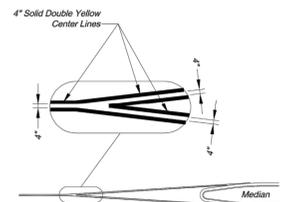


ARROW AND SYMBOL DETAILS

NOTES:
 1. All arrow and symbol markings shall be white, and shall be centered in their respective traffic lanes.
 2. Right-turn and combination right-turn/straight arrows are reverse of arrows shown.



TYPICAL MARKINGS FOR FOUR-LANE UNDIVIDED ROADWAY



TYPICAL MEDIAN NOSE CENTER LINE DETAIL

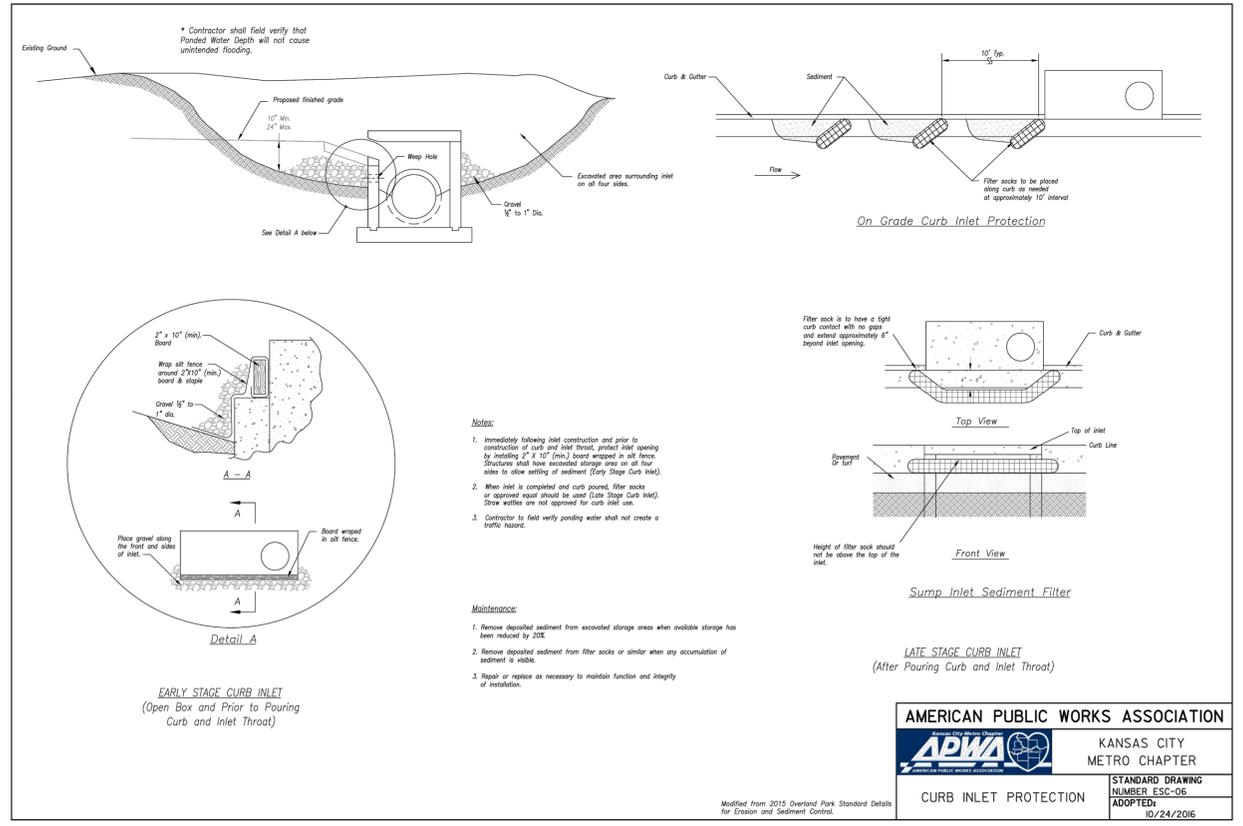
PAVEMENT MARKING GENERAL NOTES:
 1. All pavement markings shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
 2. All words and symbols shall conform to the latest edition of Standard Alphabets for Highway Signs and Pavement Markings printed by the U.S. Department of Transportation, Federal Highway Administration.
 3. Pavement markings, either temporary or permanent are required at all times if the roadway is open to traffic.
 4. All pavement markings that conflict with the desired markings shall be completely removed. Removals shall not leave the road surface scarred with an image that misleads traffic. Any excess damage or scarring of pavement shall be repaired at the Contractor's expense.
 5. The proposed permanent markings shall be laid out by the Contractor in advance of the marking installation. Markings shall not be applied until the layout has been approved by the City Traffic Engineer.
 6. Center lines shall be marked on all undivided arterial streets, and any other undivided street with more than two lanes and/or a speed limit of 30 mph or more.
 7. Edge lines shall be marked on all non-curbed streets.

CITY OF LEE'S SUMMIT
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 220 SE GREEN STREET
 LEE'S SUMMIT, MO 64553
 PHONE: (816) 899-1800 FAX: (816) 899-1809



Project: ROADWAY MARKING DETAILS
 Sheet Name: STANDARD DRAWING PW-1

Drawn By: AS
 Checked By: JW
 Date: 03/23/2020
 Project#:
 1 OF 2
1



AMERICAN PUBLIC WORKS ASSOCIATION

KANSAS CITY METRO CHAPTER

STANDARD DRAWING NUMBER ESC-06 ADOPTED: 10/24/2016

CURB INLET PROTECTION

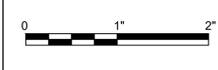


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FILENAME: 01C-BP02-30.dwg
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