!! CAUTION !!

UTILITIES IN THE AREA, BEFORE CONSTRUCTION UTILIZE 1 CALL 1-800-252-1166

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL "C". THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CHASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

PLAN SYMBOLS

I LITTO DI MIDA	<i>J</i> L 5
RIGHT-OF-WAY LINE ROAD· · · · · · · · · · · · · · · · · · ·	— — R/W — —
RIGHT-OF-WAY LINE DRAINAGE DITCH	
SECTION LINE	
QUARTER LINE PROPERTY LINE	
EASEMENT LINE	
RAILROAD· · · · · · · · · · · · · · · · · · ·	
FENCE SANITARY SEWER - EXISTING	
SANITARY SEWER - EXISTING·······SANITARY SEWER - PROPOSED·······	ss
SANITARY SEWER SERVICE - EXISTING · · · · ·	ss-sv
SANITARY SEWER SERVICE - PROPOSED · · · · ·	
SANITARY SEWER FORCE MAIN · · · · · · · · · · · STORM SEWER - EXISTING · · · · · · · · · · · · · · · · · · ·	
STORM SEWER - PROPOSED· · · · · · · · · · · · · · · · · · ·	
WATER - EXISTING· · · · · · · · · · · · · · · · · · ·	
WATER - PROPOSED WATER SERVICE - EXISTING	
WATER SERVICE - PROPOSED · · · · · · · · · · · · · · · · · · ·	
TELEPHONE	TEL
TELEVISION	
FIBER OPTIC· · · · · · · · · · · · · · · · · · ·	
UNDERGROUND POWER · · · · · · · · · · · · · · · · · · ·	
PETROLEUM PIPELINE · · · · · · · · · · · · · · · · · · ·	
GAS CURB & GUTTER - EXISTING	
CURB & GUTTER - PROPOSED · · · · · · · · · · · · · · · · · · ·	
0.11T. DV.14.11T. D	
SANITARY MANHOLE· · · · · · · · · · · · · · · · · · ·	(89)
STORM MANHOLE	(ST)
EXISTING MANHOLE·····	υ Υ Λ
HYDRANT	۸۴۸
EXISTING HYDRANT	•••••
GATE VALVE· · · · · · · · · · · · · · · · · · ·	
EXISTING GATE VALVE· · · · · · · · · · · · · · · · · · ·	
CLEAN OUT· · · · · · · · · · · · · · · · · · ·	
CURB STOP· · · · · · · · · · · · · · · · · · ·	
PROPOSED INLET	
EXISTING INLET	
SIGN - STREET NAME· · · · · · · · · · · · · · · · · · ·	
SIGN - REGULATORY / WARNING· · · · · · · · · · ·	······ - i -
POWER POLE:	or
STREET LIGHT· · · · · · · · · · · · · · · · · · ·	
ELECTRICAL TRANSFORMER · · · · · · · · · · · · · · · · · · ·	EL or EL
UTILITY PEDESTAL · · · · · · · · · · · · · · · · · · ·	
UTILITY HANDHOLD / VAULT· · · · · · · · · · · · · · · · · · ·	
DECIDUOUS TREE·····	
CONIFEROUS TREE·····	····· 🧩 or 🌟
BUSH / HEDGE	😝 or 🖨

City of Moorhead Right-of-Way Details and Standards



	INDEX
SHEET NO.	TITLE
1	Title Sheet
2	Street Patch Repair Details
3	Sidewalk & Private Drive Details
4	Sidewalk & ADA Ramp Details
5	Storm Sewer Details
6	Storm Sewer Curb Details
7	Water and Sewer Service Details
8	Utility Location Construction Standards

LJH <i>DRAWN BY</i>	S.P. No.
MEO CHECKED BY	ENG. No.
TET APPROVED BY	LEGAL. No.



EFFECTIVE DATE:

SPECIFICATION REFERENCE

TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN, AS MODIFIED BY THE CITY OF MOORHEAD SPECIFICATIONS AND SPECIAL PROVISIONS.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE 2014 MMUTCD, AND TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS (FIELD MANUAL) DATED JANUARY 2014.

THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF

Any area of work that requires the removal, physical disturbance or penetration of any part of the City maintained public right-of-way is subject to the requirements of the following details in accordance with City Code Title 8 Chapter 4. Any area affected by any excavation activity, including the staging area for storage equipment and materials, located in either the roadway or boulevard; will require a permit before commencement of work.

Right- of Way Excavation Permit

Excavation permits are required whenever an excavation or underground work is planned within the public right-of-way. No person may excavate any right-of-way without first having obtained the appropriate Right-of-Way Permit from the Engineering Department.

Applicants must submit a completed permit application along with the following information (Online application located at http://www.cityofmoorhead.com/departments/engineering/permits);

- -Scaled drawings/designs showing the scope and location of the proposed project
- -\$25,000 minimum Contractor Bond on file with the City
- -Certificate of Liability Insurance (City of Moorhead listed as additional insured)
- -Erosion/Sediment Control Permit Application (where applicable)

Fees

Boring/Trenching & Excavations (Length of boring/trenching activities and total perimeter of excavation, includes stormwater fee):

0' - 500' = \$250

501' - 1500' = \$550

1501' + = \$1,250

MINIMUM PERMIT FEE = \$250

Driveway and Sidewalk Permit

Driveway and sidewalk permits are required for installing driveway approaches, sidewalk or curb/gutter in the public right-of-way. The permit will only be issued to a bonded contractor or homeowner who obtains a certificate of insurance bond in the amount of \$5,000 payable to the City of Moorhead.

Fees

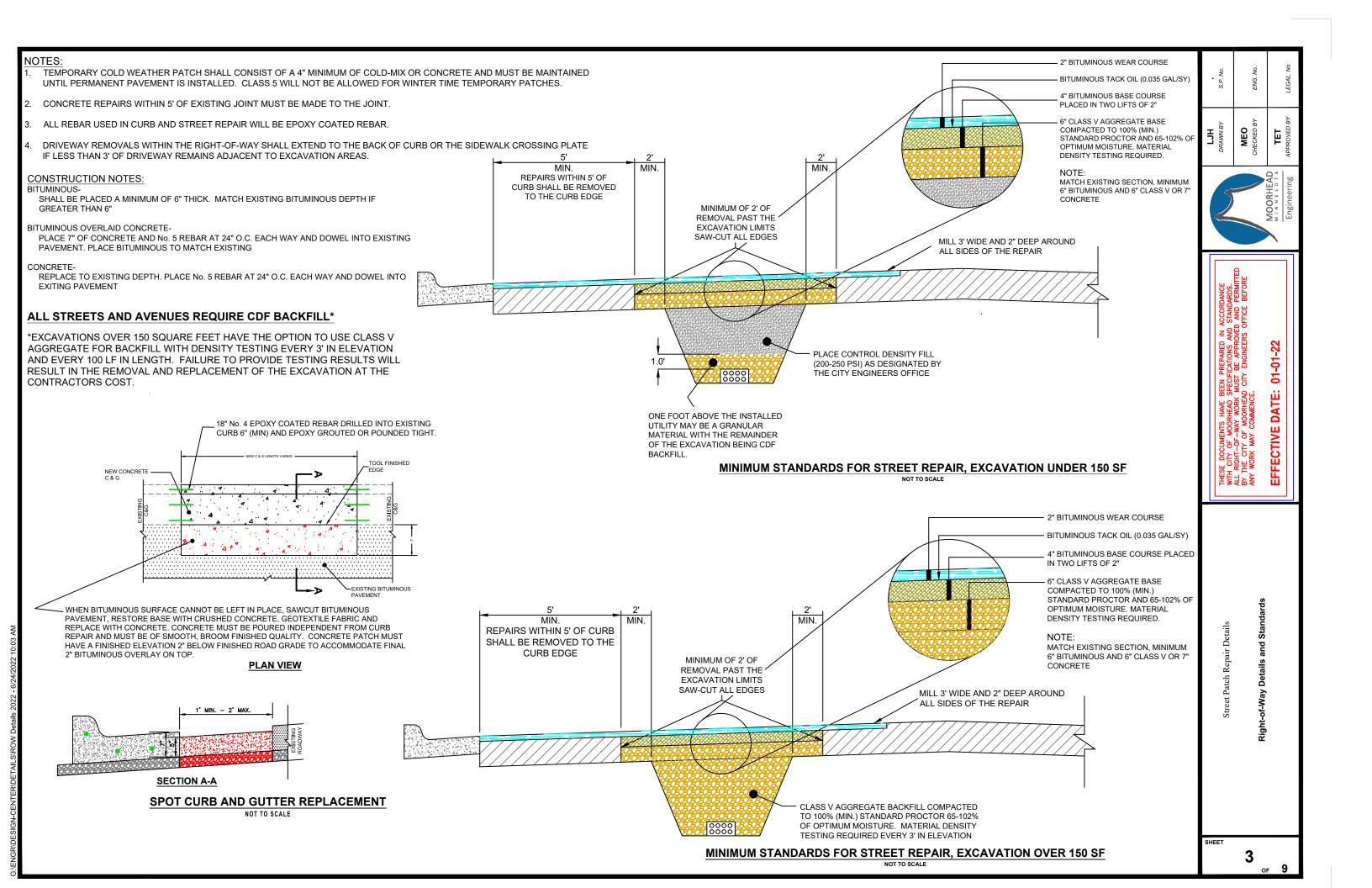
Driveway Approach Permit = \$30

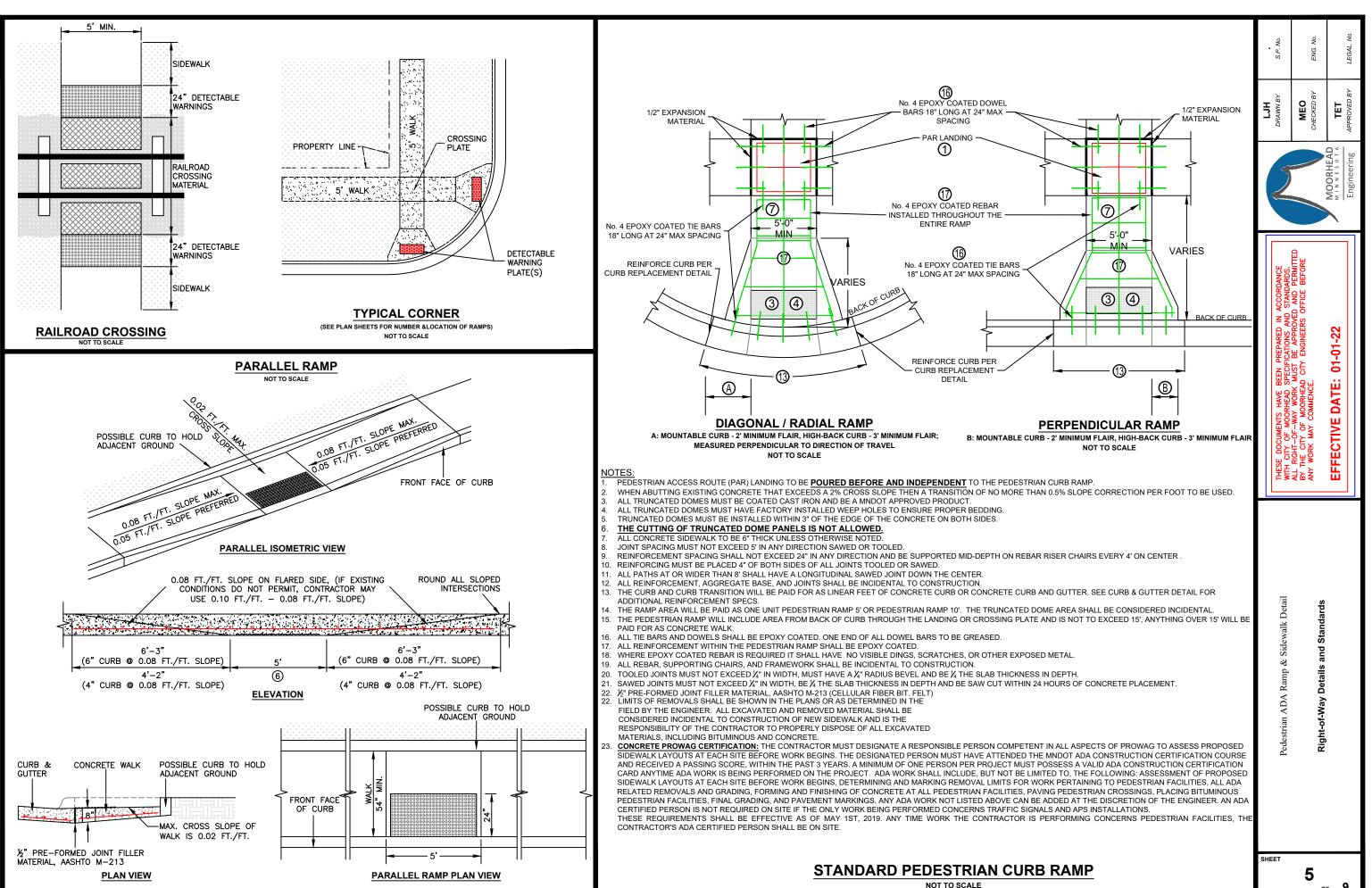
Sidewalk or Curb & Gutter Permit = \$0.75/lineal foot

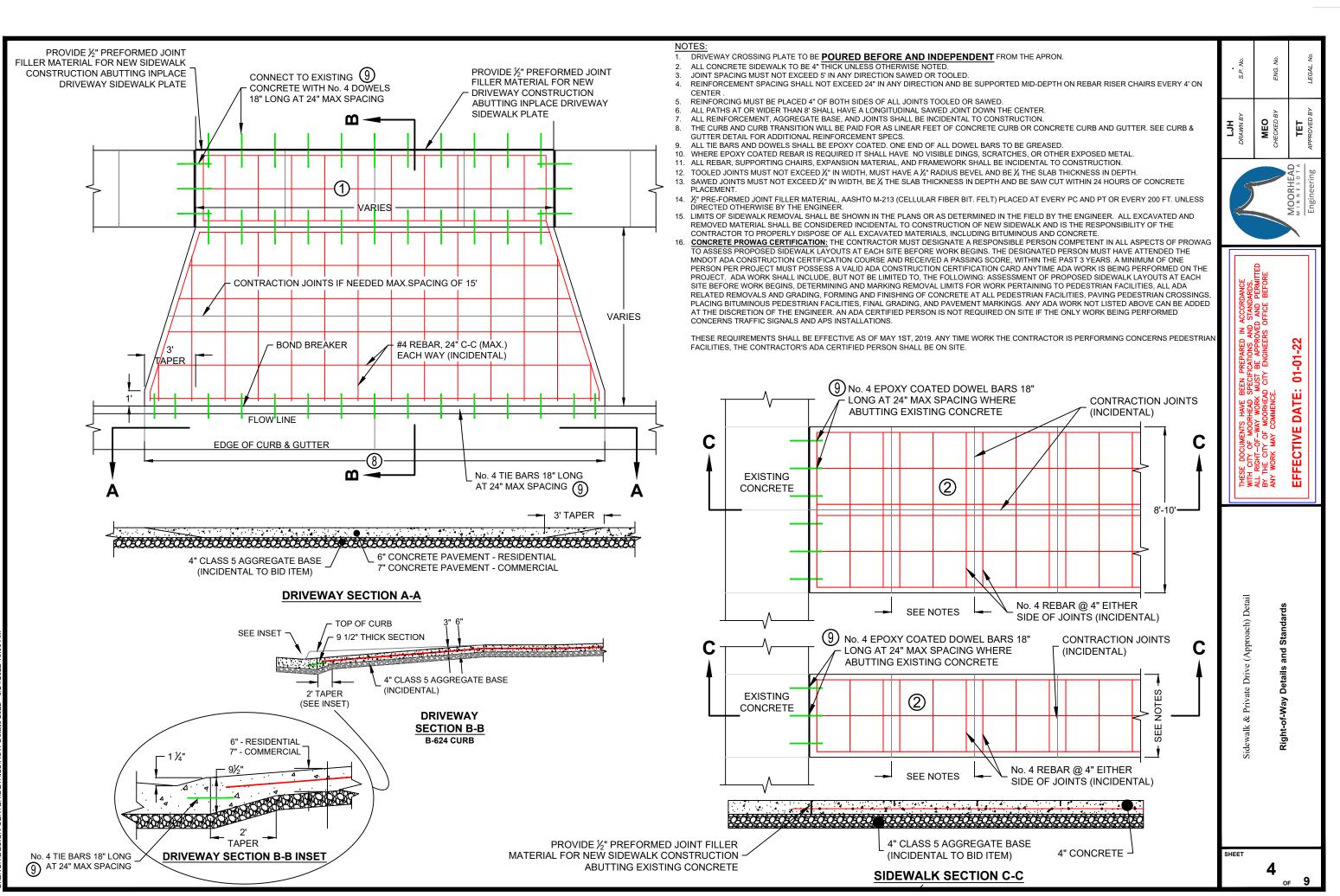
FOR ALL DRIVEWAY AND SIDEWALK PERMITS AND INSPECTIONS CALL THE CITY OF MOORHEAD ENGINEERING DEPARTMENT AT 218-299-5390.

2	LJH DRAWN BY	S.P. No.
	MEO	
	СНЕСКЕD ВУ	ENG. No.
MOORHEAD MINNESOTA	TET	
Engineering	APPROVED BY	LEGAL. No.









G-FINGRIDESIGN-CENTERIDETAII S\ROW Details 2022 - 6/24/2022 10:03 AM

NOTES:

- REINFORCEMENT NOT SHOWN
- TYPE "A" CASTING ASSEMBLY TO BE USED FOR STORM AND SANITARY MANHOLES
- TYPE "B" CASTING ASSEMBLY TO BE USED FOR REAR YARD, BOULEVARD, AND DITCH DRAINAGE
- TYPE "C" CASTING ASSEMBLY TO BE USED IN TYPE "C" MOUNTABLE CURB AND GUTTER
- TYPE "D" CASTING ASSEMBLY TO BE USED IN B-624 CURB AND GUTTER
- TYPE "E" CASTING ASSEMBLY TO BE AT ADA RAMP LOCATIONS AS DIRECTED BY THE ENGINEER
- TYPE "F" CASTING ASSEMBLY TO BE USED FOR STORM SEWER CATCH BASIN INSTALLATIONS WITH ELEVATION CONSTRAINTS.
- INLET PIPE OPENINGS SHALL BE GROUTED ON THE INSIDE AND OUTSIDE OF EACH STRUCTURE WITH AN APPROVED CONCRETE MIX
- HDPE RINGS SHALL BE INSTALLED VERTICALLY; STAGGERING OF ADJUSTMENT RINGS SHALL NOT BE ALLOWED, CONTRACTOR SHALL ADJUST STRUCTURE PLACEMENT OR CURB ALIGNMENT AS NECESSARY
- PROVIDE MORTAR FILLETS / INVERTS TO DIRECT FLOW TO OUTLET

TYPE "A" CASTING ASSEMBLY FRAME Mn/DOT 700-7 **FRAME**

TYPE "C" CASTING ASSEMBLY FRAME NEENAH 3508-A2 GRATE NEENAH TYPE C Mn/DOT 700-4 (LOW PROFILE)

FRAME Mn/DOT 805 (ADA RAMP USE) Mn/DOT 817 (ADA RAMP USE)

FRAME

STS. GRATE

TYPE "E" CASTING ASSEMBLY

TYPE "F" CASTING ASSEMBLY

Mn/DOT 721

Mn/DOT 700-4 (LOW PROFILE)

SAN. GRATE Mn/DOT 716 (MUST HAVE CONCEALED PICK HOLES)

STS. GRATE Mn/DOT 715

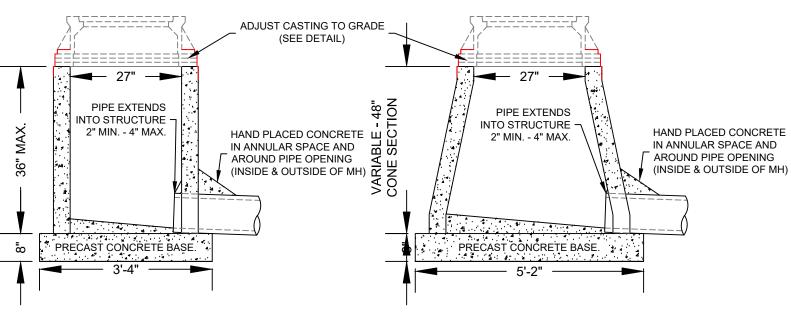
TYPE "B" CASTING ASSEMBLY CONCRETE (STND PLATE 4143E)

MNDOT CASTING #731 (NEENAH R-4342)

TYPE "D" CASTING ASSEMBLY FRAME Mn/DOT 801 GRATE Mn/DOT 810

CURB BOX Mn/DOT 823A (STRAIGHT CURB)

CURB BOX Mn/DOT 821B (RADIUS CURB)



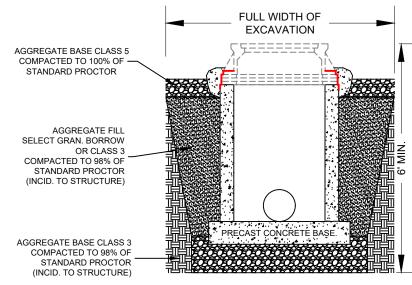
Mn/DOT DESIGN "H"

STANDARD PLATE NO. 4006L

NOT TO SCALE

Mn/DOT DESIGN "G"

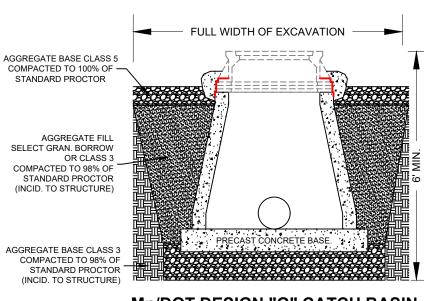
STANDARD PLATE NO. 4006L NOT TO SCALE



Mn/DOT DESIGN "H" CATCH BASIN INSTALLATION

STANDARD PLATE NO. 4006L

NOT TO SCALE



Mn/DOT DESIGN "G" CATCH BASIN INSTALLATION

STANDARD PLATE NO. 4006L

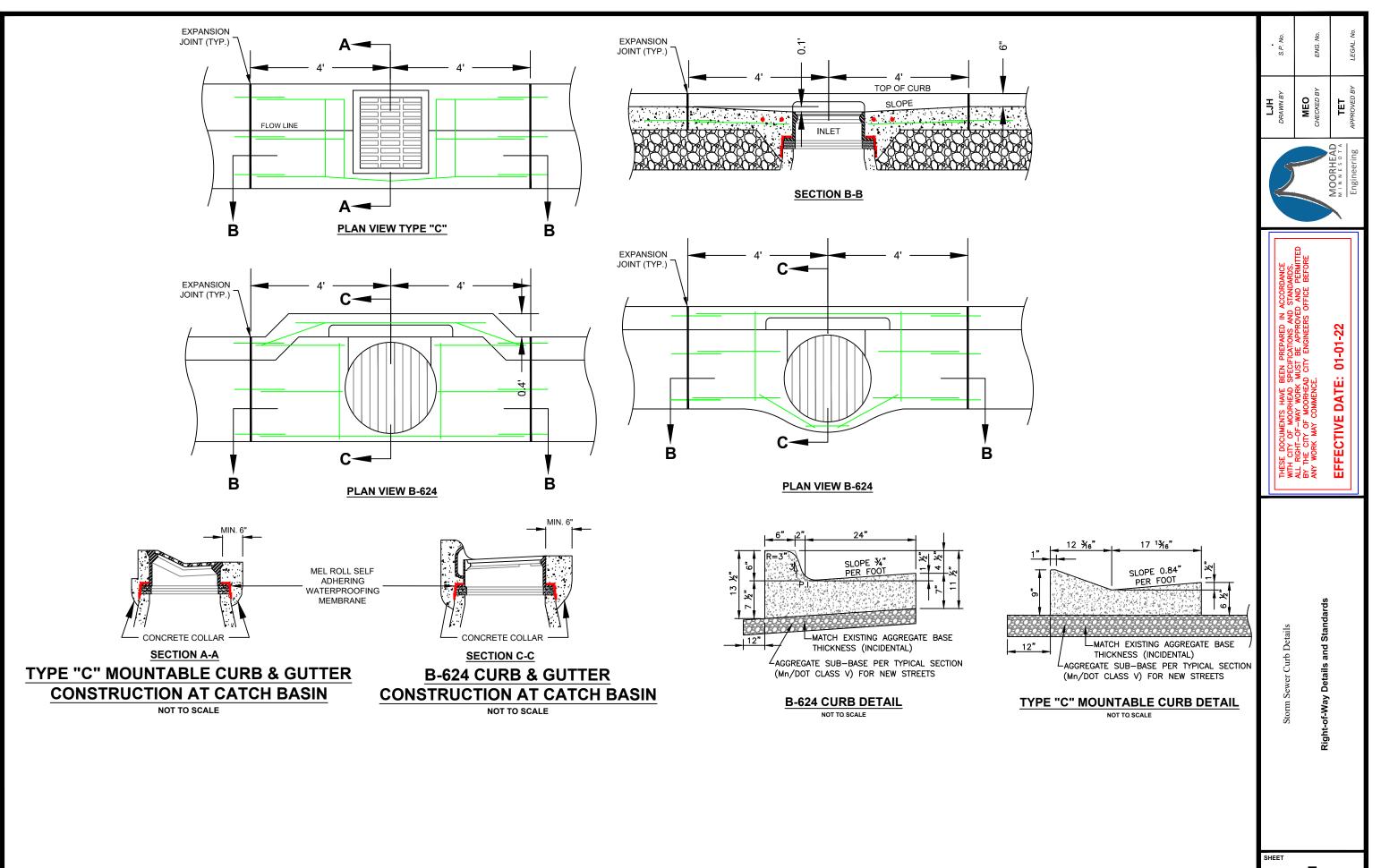
NOT TO SCALE

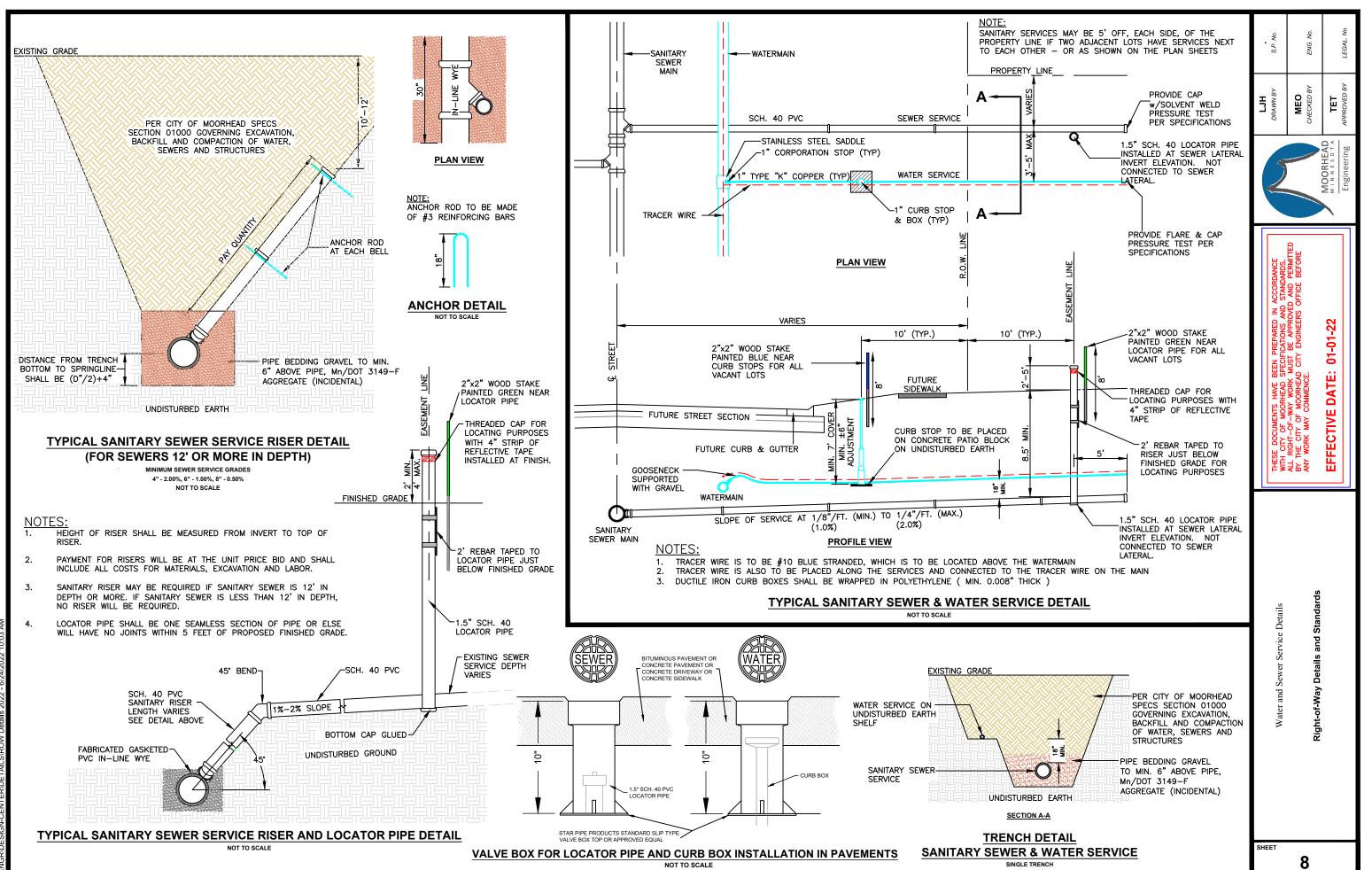


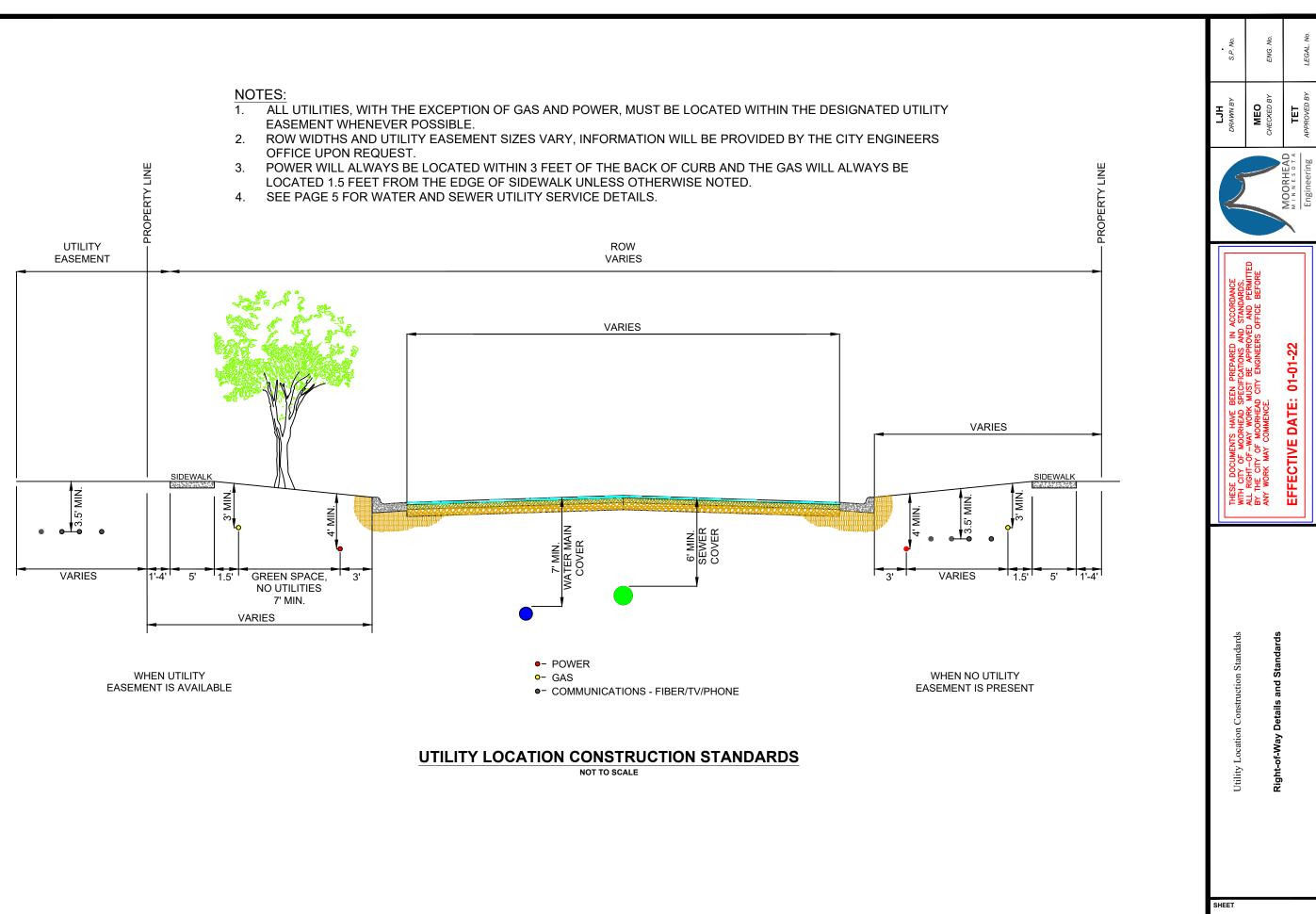


01-01-22 DATE: **FECTIVE**

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