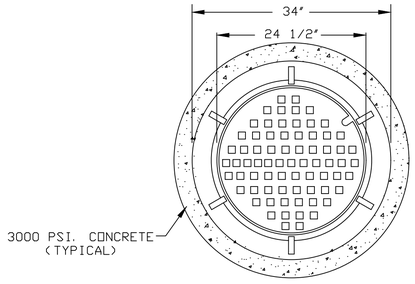


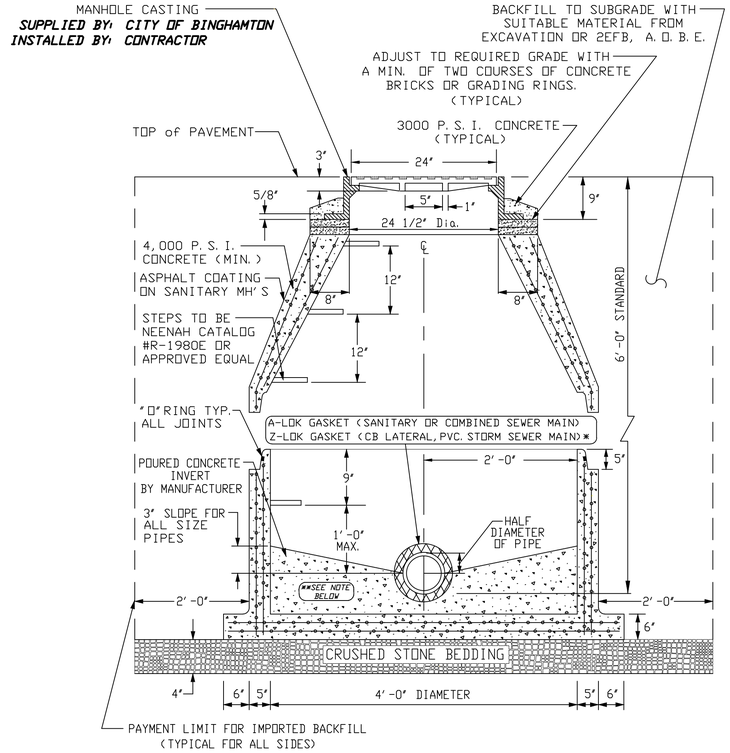
STANDARD MANHOLE FRAME & GRATE

TO BE SUPPLIED BY THE CITY OF BINGHAMTON

NEENAH CASTING R-1713, A. S. T. M. A48-83, CLASS 35
EJ GROUP 1020AGS - SANITARY, 1020A - STORM
(OR AN APPROVED EQUAL)
NOT TO SCALE

STORM LID: SOLID PLATEN, TYPE C, REG. SEAT, GI CLASS 35, 1 OPEN PICK HOLE, LETTERED 'STORM SEWER'

SANITARY LID: SOLID PLATEN, TYPE B, T-SEAL, 2 F PK, AC, GI CLASS 35, LETTERED 'SANITARY SEWER'



STANDARD MANHOLE - ITEM 202

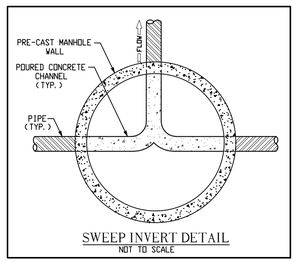
CONCENTRIC MANHOLE
NOT TO SCALE

* NOTE: Z-LOK GASKETS MAY BE OMITTED IF CONNECTIONS ARE MODIFIED (SEE SPECIFICATIONS).

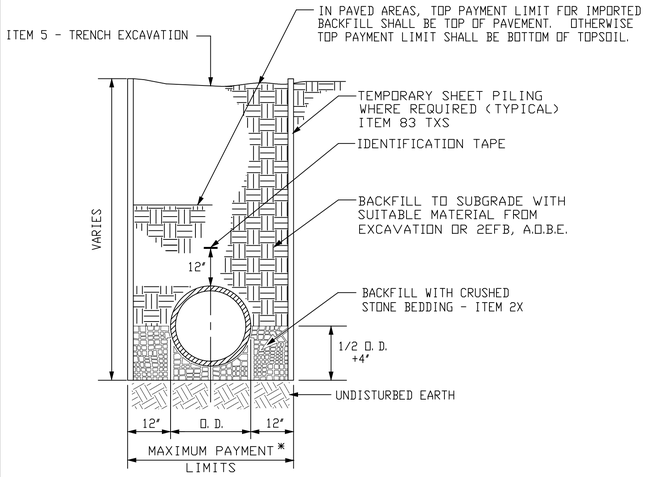
** NOTE: SANITARY SEWER MANHOLES SHALL BE PROVIDED, BY MANUFACTURER, WITH A POURED CONCRETE INVERT. CHANGES IN PIPE DIRECTION (GREATER THAN OR LESS THAN 180°) SHALL HAVE A POURED CONCRETE SWEEP INVERT (SEE DETAIL).

NOTES:

1. PRECAST REINFORCED CONCRETE UNITS SHALL CONFORM TO THE REQUIREMENTS OF A. S. T. M. DESIGNATIONS C-478-78a PRECAST CONCRETE MANHOLE RISERS AND TOPS.
2. ALL PRECAST UNITS SHALL BE SET ON A MINIMUM OF 4" CRUSHED STONE BEDDING.



SWEEP INVERT DETAIL
NOT TO SCALE



DETAIL

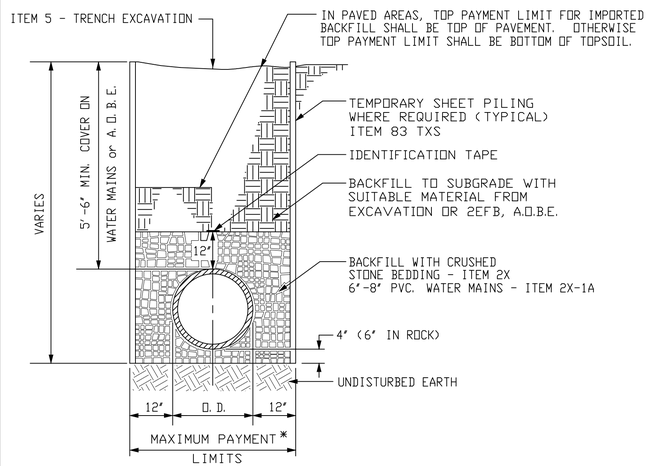
EXCAVATION AND BACKFILL FOR PIPES 24" DIA. AND OVER

NOT TO SCALE

* MAXIMUM PAYMENT LIMIT:

WHERE USE OF DRAG SHIELD IS REQUIRED TO MEET SAFETY STANDARDS DUE TO DEPTH OF PIPE OR SOIL CONDITIONS, THEN MAXIMUM LIMIT IS TO BE THE OUTSIDE WIDTH OF SHIELD. QUANTITIES TO BE COMPUTED ON THAT WIDTH AS MEASURED BY THE ENGINEER. CONTRACTOR SHALL UTILIZE SMALLEST WIDTH SHIELD THAT IS FEASIBLE.

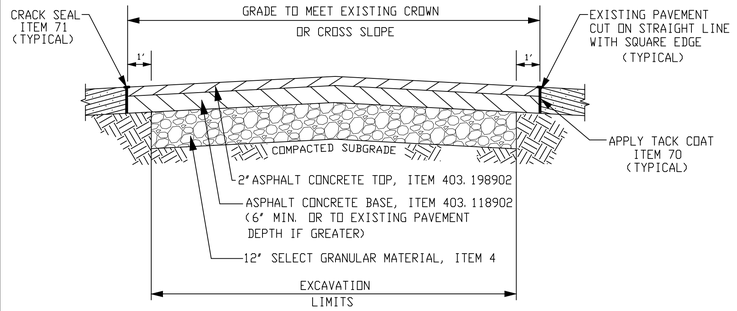
NO PAYMENT FOR DRAG SHIELD USED BY CONTRACTORS.



DETAIL

EXCAVATION AND BACKFILL FOR PIPES UNDER 24" DIA. AND ALL WATER MAINS

NOT TO SCALE



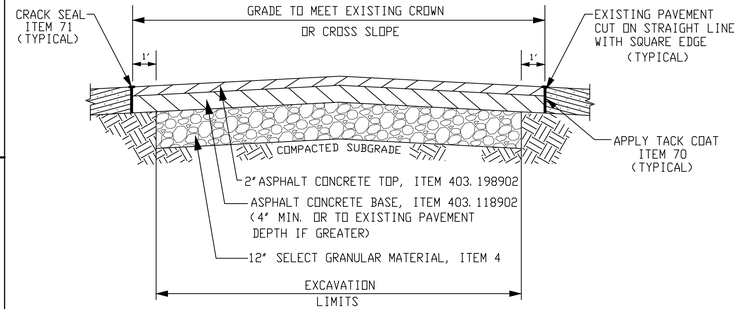
DETAIL

PAVEMENT RESTORATION FOR TRENCH EXCAVATIONS

NOT TO SCALE

PAVEMENT RESTORATION NOTE

CONTRACTOR SHALL PROVIDE A SMOOTH PAVEMENT FINISH THAT BLENDS INTO THE EXISTING PAVEMENT TO THE SATISFACTION OF THE ENGINEER.



DETAIL

PAVEMENT RESTORATION FOR TRENCH EXCAVATIONS

NOT TO SCALE

DATE	REVISION	
REV. 3/09	PAV'T. RESTORATION NOTE	W.A.R.
REV. 2/08	MH. CASTING SUPPLY NOTE	W.A.R.
REV. 6/07	ADD CONC. SWEEP NOTE	W.A.R.
REV. 3/04	ADD ITEMS 4, & 2EFB	W.A.R.

MANHOLE, EXCAVATION & RESTORATION

STANDARD DETAILS

DESIGNED:	C.O.B.
DRAWN:	W.A.R.
CHECKED:	D.J.F.
DATE:	MARCH 2004
SCALE:	NOTED
SHEET:	OF

City of Binghamton

Jared M. Kraham, Mayor
DEPARTMENT OF ENGINEERING

DRAWING NO.

File name: C:\Users\jelinsky\Desktop\Manhole, Excavation Details.dwg Tab Name: MH-Exc-Rest (1) Apr 01, 2025 - 3:39pm jel473629