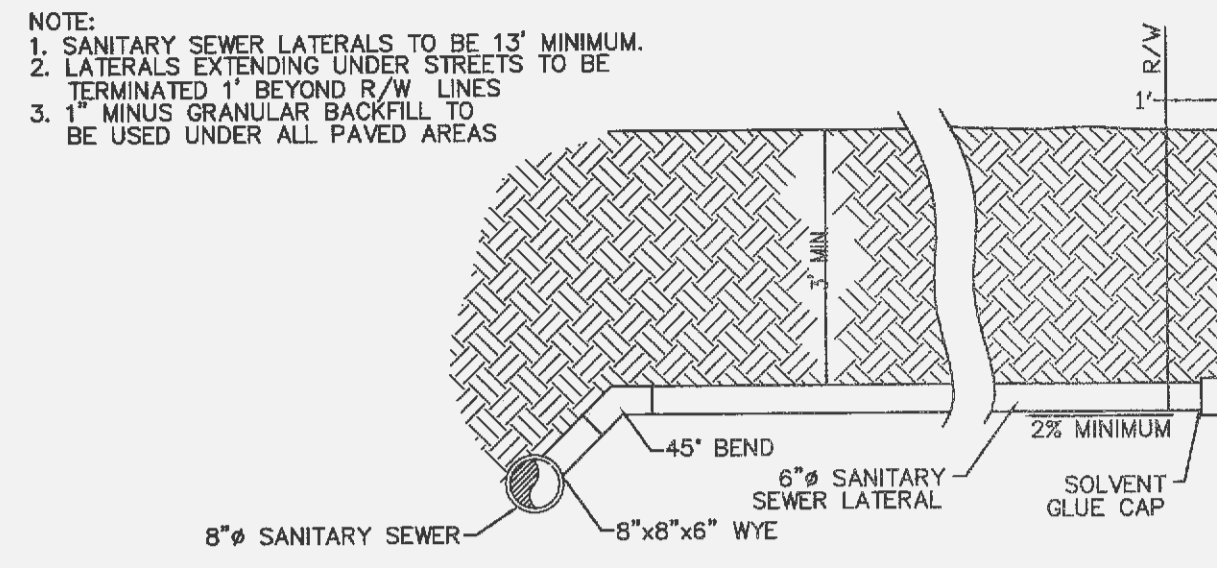
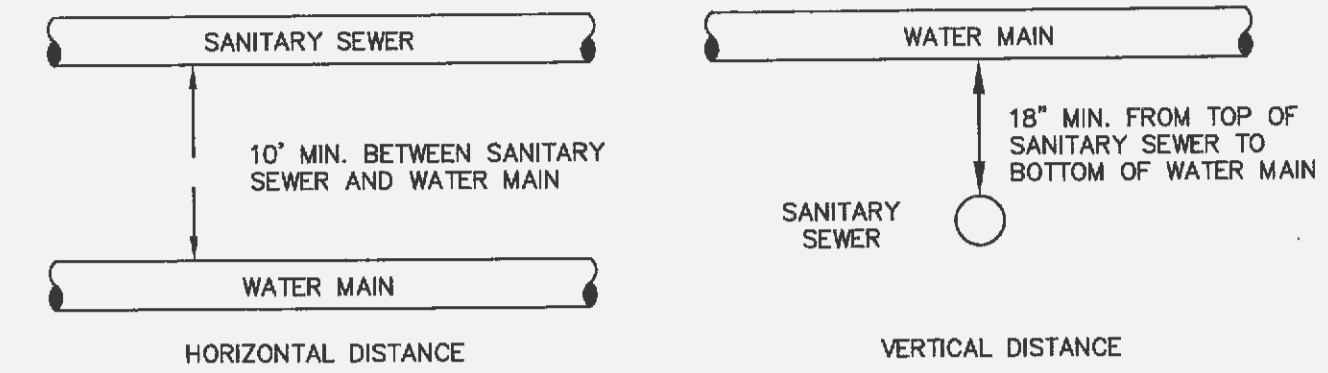


SANITARY SEWER CLEAN-OUT
N.T.S.

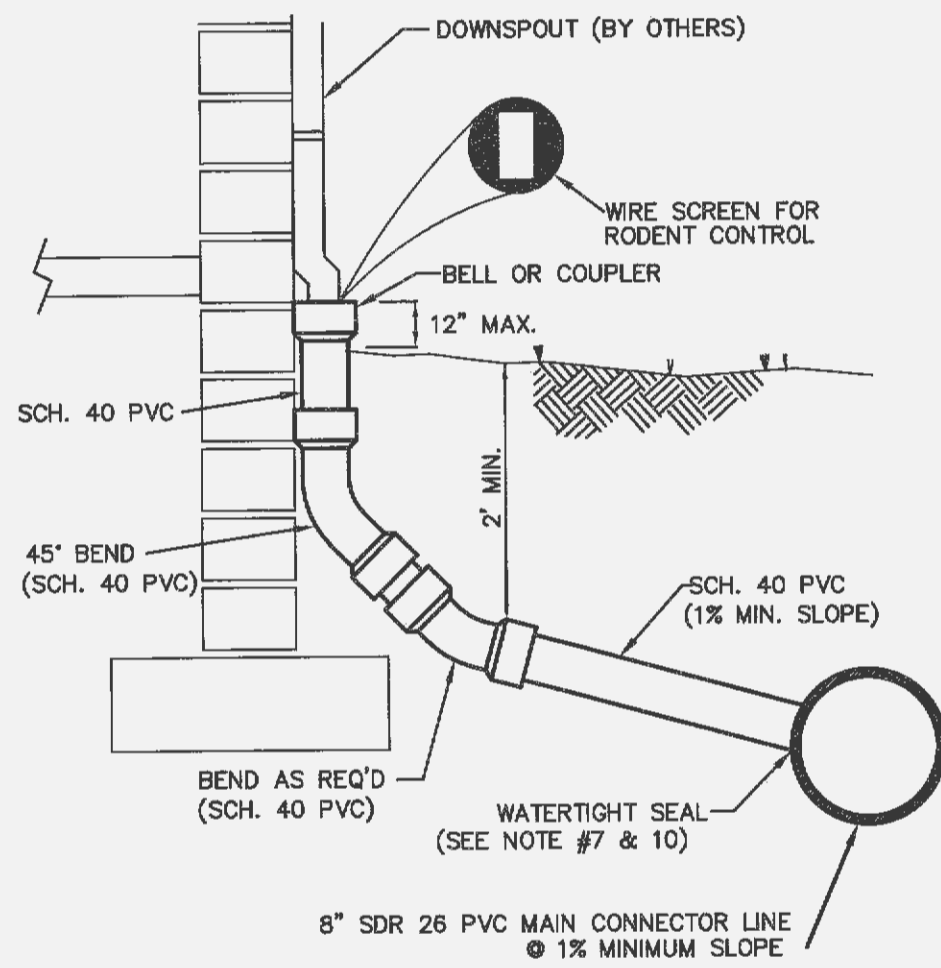


SANITARY SEWER LATERAL DETAIL
NO SCALE



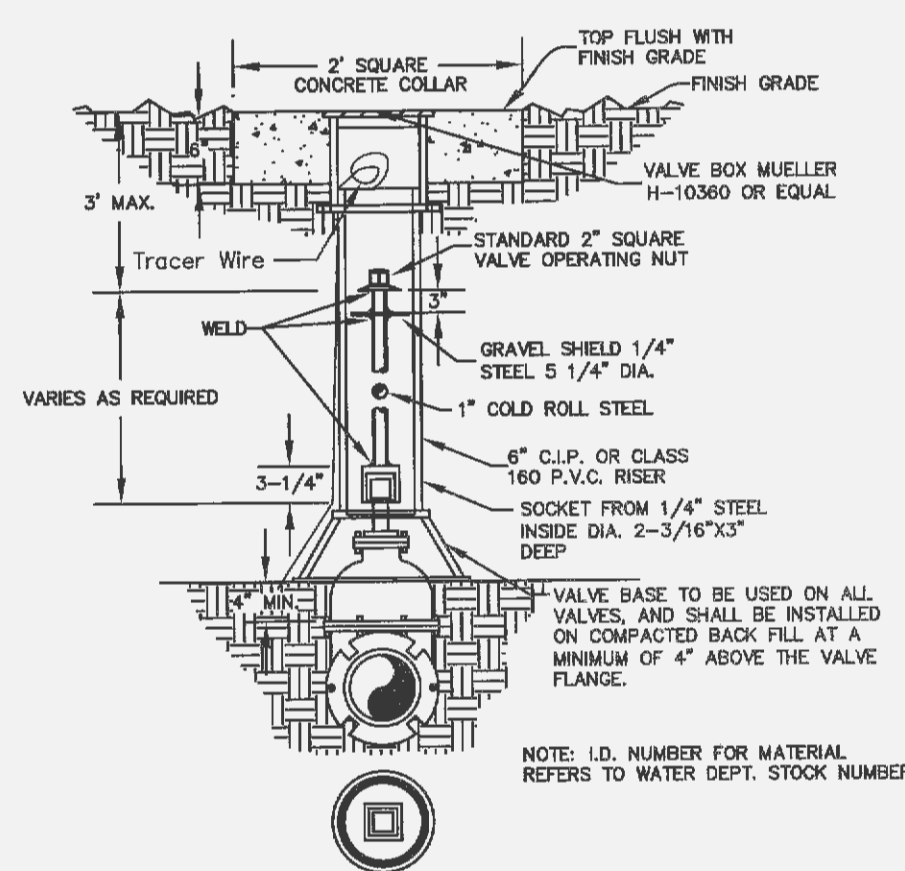
TYPICAL WATER AND SEWER SEPARATION
NOT TO SCALE

- ALL TRENCHES SHALL HAVE A BEDDING OF WELL GRADED, 1" MINUS, GRANULAR MATERIAL FROM 4" BELOW THE BOTTOM OF THE PIPE TO 1/2 THE DIAMETER OF THE PIPE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- IN AREAS TO BE PAVED OVER, ENTIRE TRENCH TO BE BACKFILLED WITH WELL GRADED 1" MINUS GRANULAR MATERIAL & COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY.
- IN AREAS OF CLEAN DIRT OUTS OUTSIDE OF PAVED AREAS, TRENCH MAY BE BACKFILLED WITH SAME MATERIAL AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY.
- IN AREAS OF ROCK OUT, THE TRENCH SHALL BE BACKFILLED WITH WELL GRADED 1" MINUS GRANULAR MATERIAL TO 8" ABOVE TOP OF PIPE.
- BACKFILL SHALL BE HOLLOWED OUT FOR PIPE JOINTS AND FITTINGS. PIPE JOINTS ARE TO BE UNSUPPORTED.
- IN ALL CASES TRENCHING & BACKFILLING SHALL MEET OR EXCEED THE PIPE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS.
- WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE.
- THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. SITEWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE RODENT SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE RODENT SCREEN.
- DOWNSPOUT SIZE WILL CONTROL SCH 40 SIZE TO MAIN COLLECTOR LINE.
- CONNECTION OF THE DOWNSPOUT TO THE COLLECTION LINE SHALL BE MADE USING A "WYE" FITTING NOT A TEE.



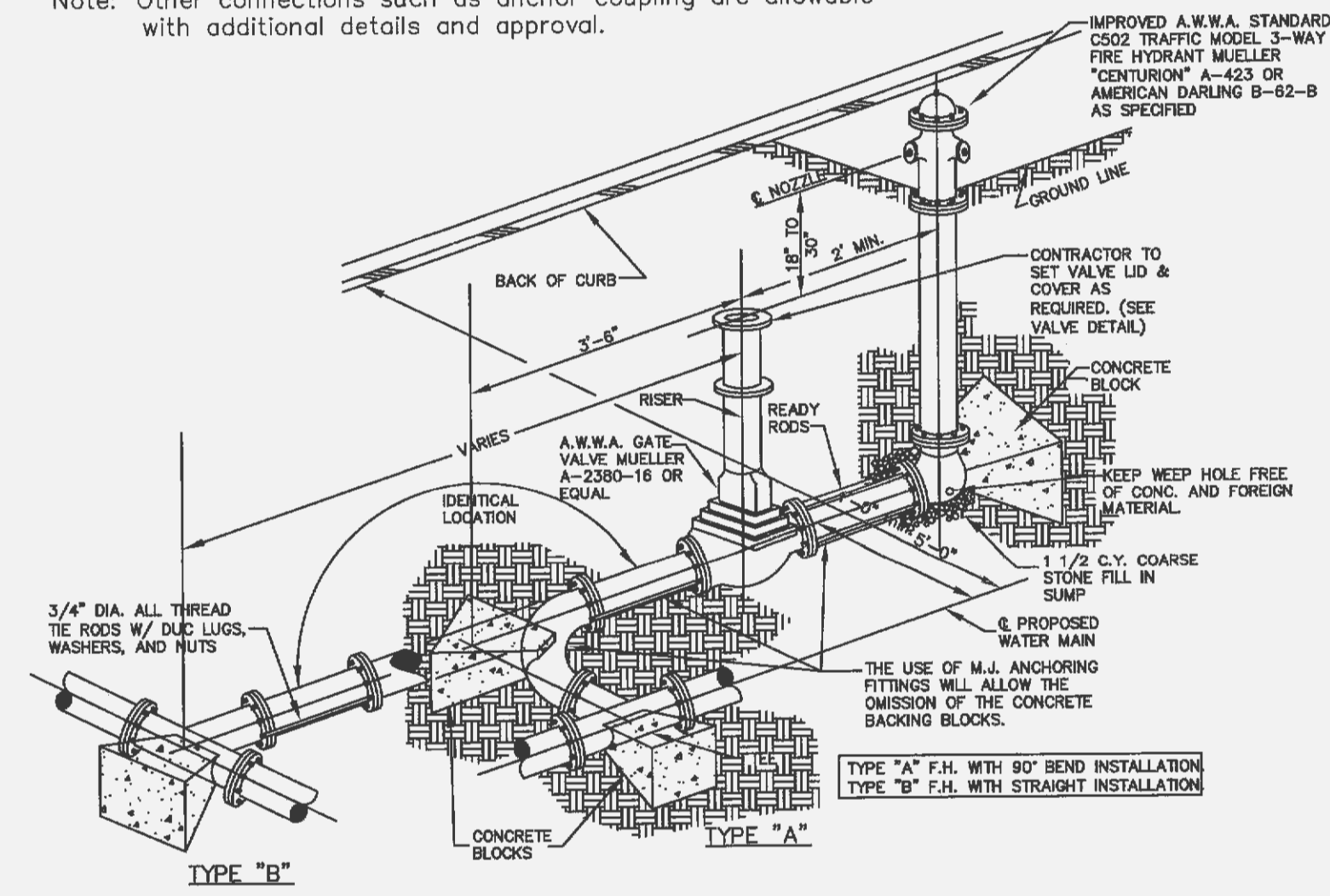
DOWNSPOUT COLLECTOR DETAIL
NO SCALE

Concrete collar will be in accordance with the Concrete Code Detail.

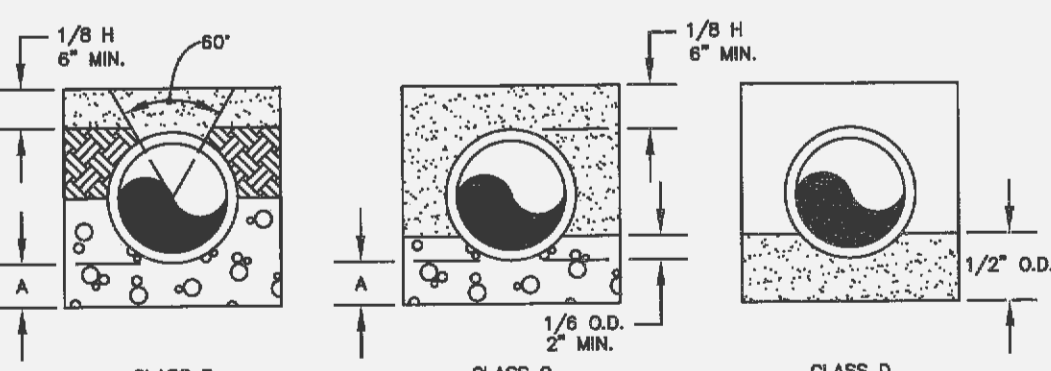


WATER VALVE DETAIL
NOT TO SCALE

Note: Other connections such as anchor coupling are allowable with additional details and approval.



FIRE HYDRANT DETAIL
NOT TO SCALE



LEGEND

L.D. - NOMINAL PIPE SIZE
O.D. - OUTSIDE DIAMETER OF PIPE
H - COVER ABOVE TOP OF PIPE
A - EMBEDDED BELOW PIPE (SEE TABLE)

TAMPED BACK FILL
COMPACTED BACK FILL
GRANULAR BEDDING

TABLE OF EMBEDDED DEPTHS BELOW PIPE

L.D.	A	H
27" & SMALLER	3"	6"

GRANULAR BEDDING SHALL BE CRUSHED ROCK OR PEA GRAVEL WITH NOT LESS THAN 95% PASSING 1/2" (95% PASSING 3/4" FOR 30" AND LARGER PIPE) AND NOT LESS THAN 85% RETAINED ON A #4. TO BE PLACED IN NOT MORE THAN 6" LAYERS AND COMPACTED BY SLUNG WITH A SHOVEL OR VIBRATING.

COMPACTED BACK FILL SHALL BE FINELY DIVIDED JOB EXCAVATED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL AND STONES, PLACED IN UNIFORM LAYERS NOT MORE THAN 6" THICK, COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. DEBR. OR GRADED AGGREGATE. GRANULAR BACK FILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF COMPACTED BACK FILL.

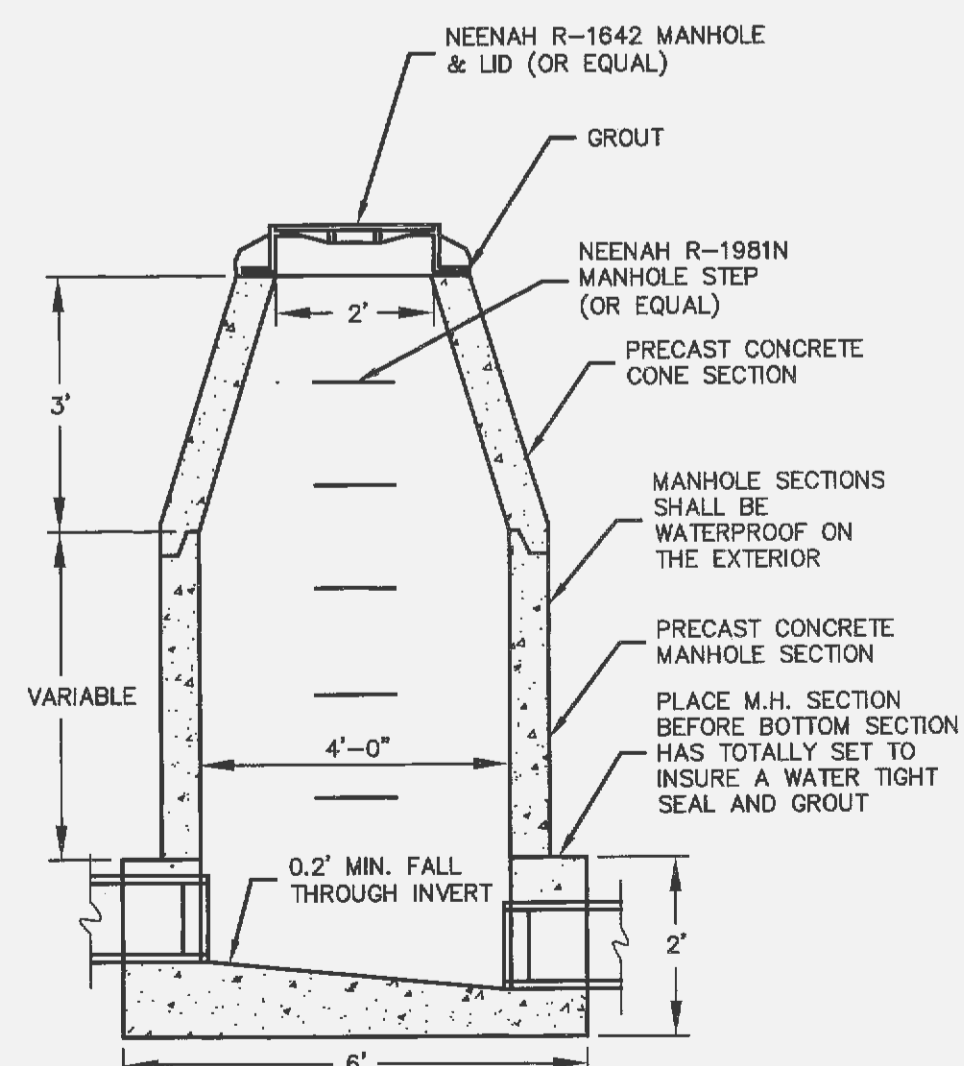
TAMPED BACK FILL SHALL BE FINELY DIVIDED JOB EXCAVATED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL AND STONES, HAND PLACED IN UNIFORM LAYERS NOT MORE THAN 6" THICK AND TAMPED AROUND CONDUIT PIPE. GRANULAR BACK FILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF TAMPED BACK FILL.

TRENCH BACK FILL SHALL BE AS SPECIFIED IN THE "LAYING AND BACK FILL" SECTION OF THE DETAILED SPECIFICATIONS.

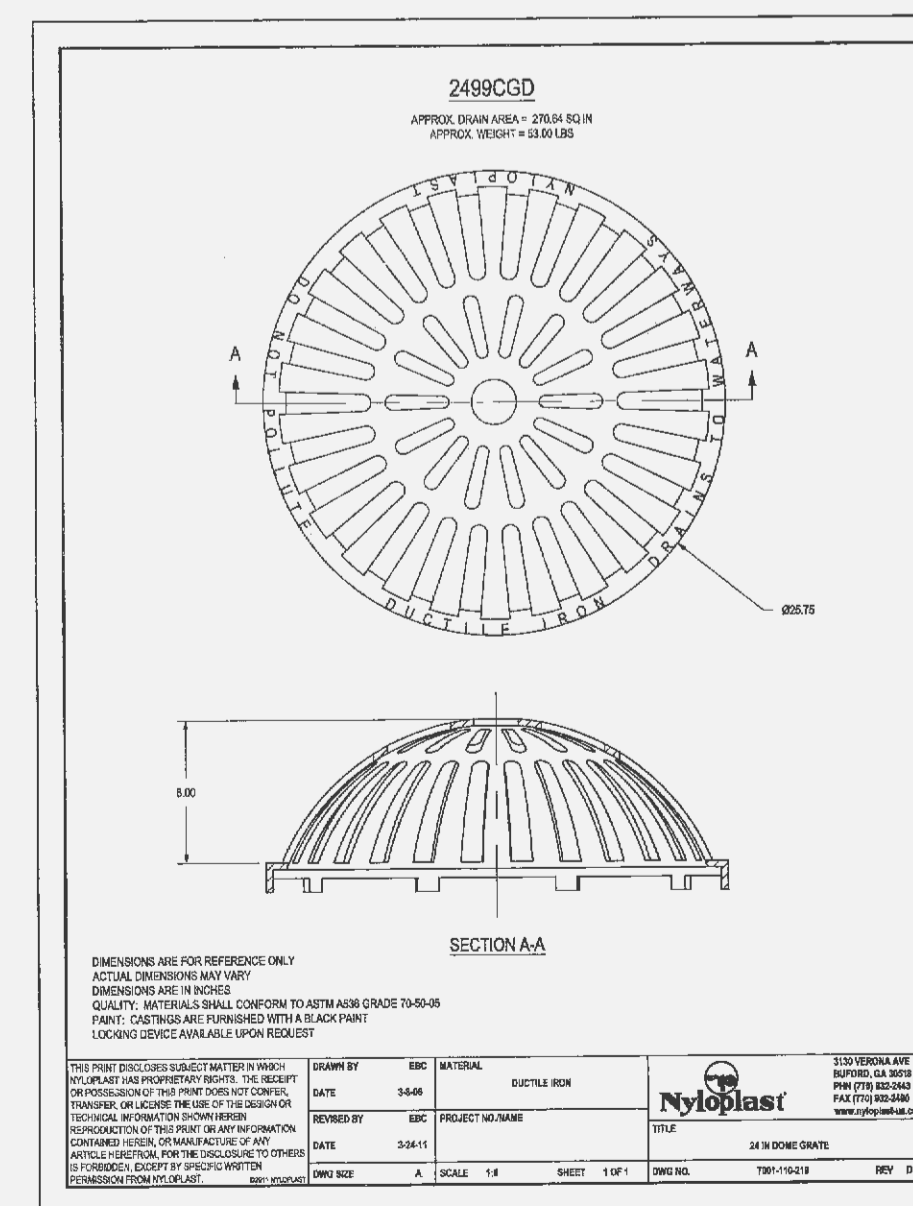
EMBEDDED TYPE OF EMBEDDED TO BE USED SHALL BE AS SPECIFIED IN THE PLANS AND SPECIFICATIONS.

TRACER WIRE REQUIRED ON ALL WATER MAINS

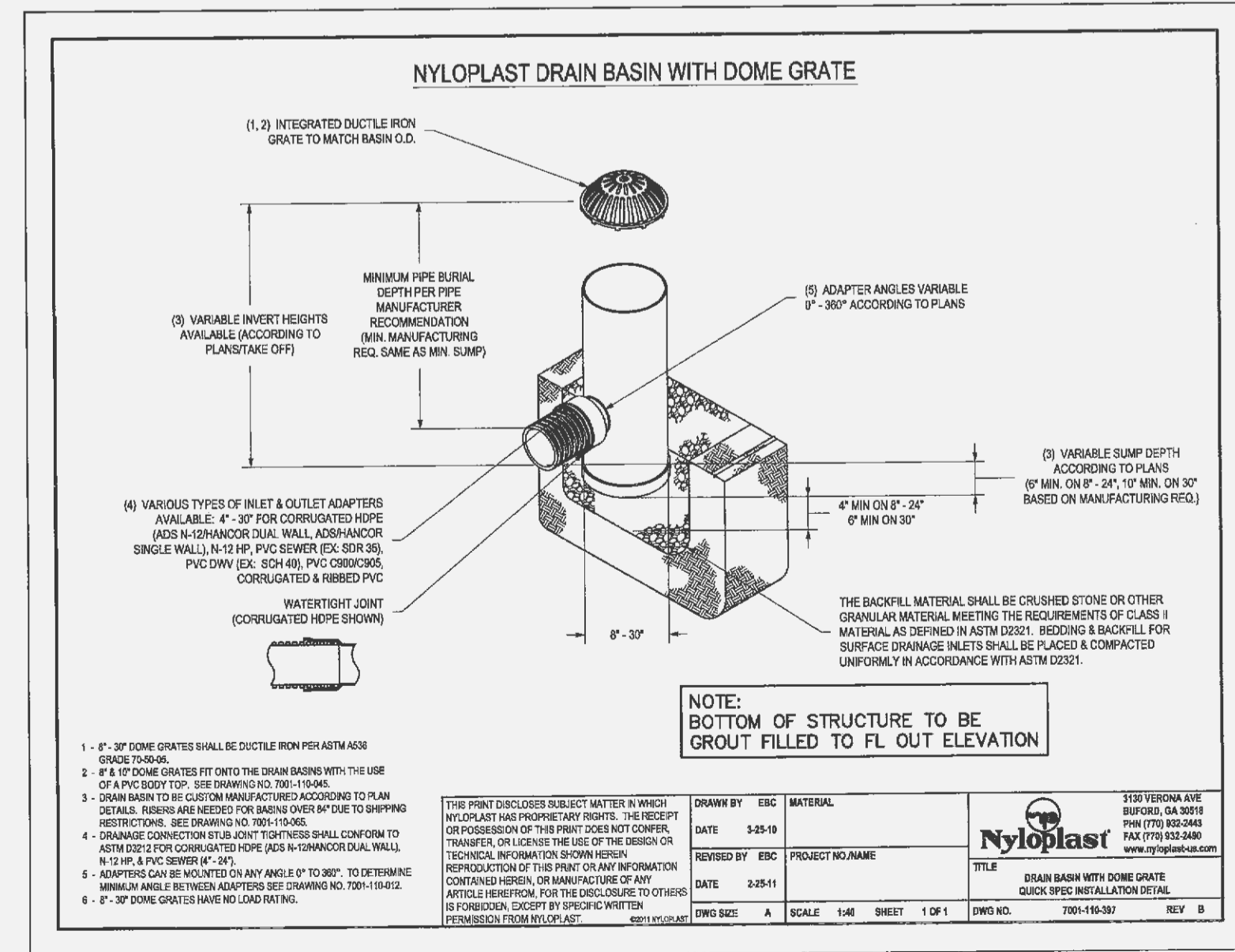
WATER MAIN EMBEDDED
NOT TO SCALE



MANHOLE DETAIL
NO SCALE



REVISION DATE: 11-19-13 PER CITY COMMENTS



NYLOPLAST

DATE: 11/19/13
PROJECT NO. NAME:
DATE: 11/19/13
SCALE: 1/8" = 1'-0"
SHEET: 1 OF 1
PROJECT: 2011-10-01

MERS/GOODWILL

North Office
8 East Main Street
Wentzville, Missouri 63385

COCHRAN

• Civil Engineering
• Land Surveying
• Architecture
• Site Development
• Environmental Consulting
• Master Planning

ERIC SCOTT KIRCHNER
E-2001004618

STATE OF MISSOURI ENGINEER

DATE
Eric S. Kirchner No. E-2001004618
Registered Professional Engineer
State of Missouri
for Cochran Engineering & Surveying

Developer / Owner Information:
Mers/Goodwill
1727 Locust St.
St. Louis, MO 63103
314-241-3464

City of O'Fallon Standard Sheet

P+Z No.
Approval Date: 01/03/2011
07/18/2011
City No. 18-12.02
18-12.02.01

Page No.

C11