



REGIONAL CONSTRUCTION **STANDARDS**

FIFTH EDITION

Publication Update #7

Full Committee Approved Proposed Revision #12
as Publication Update #7.

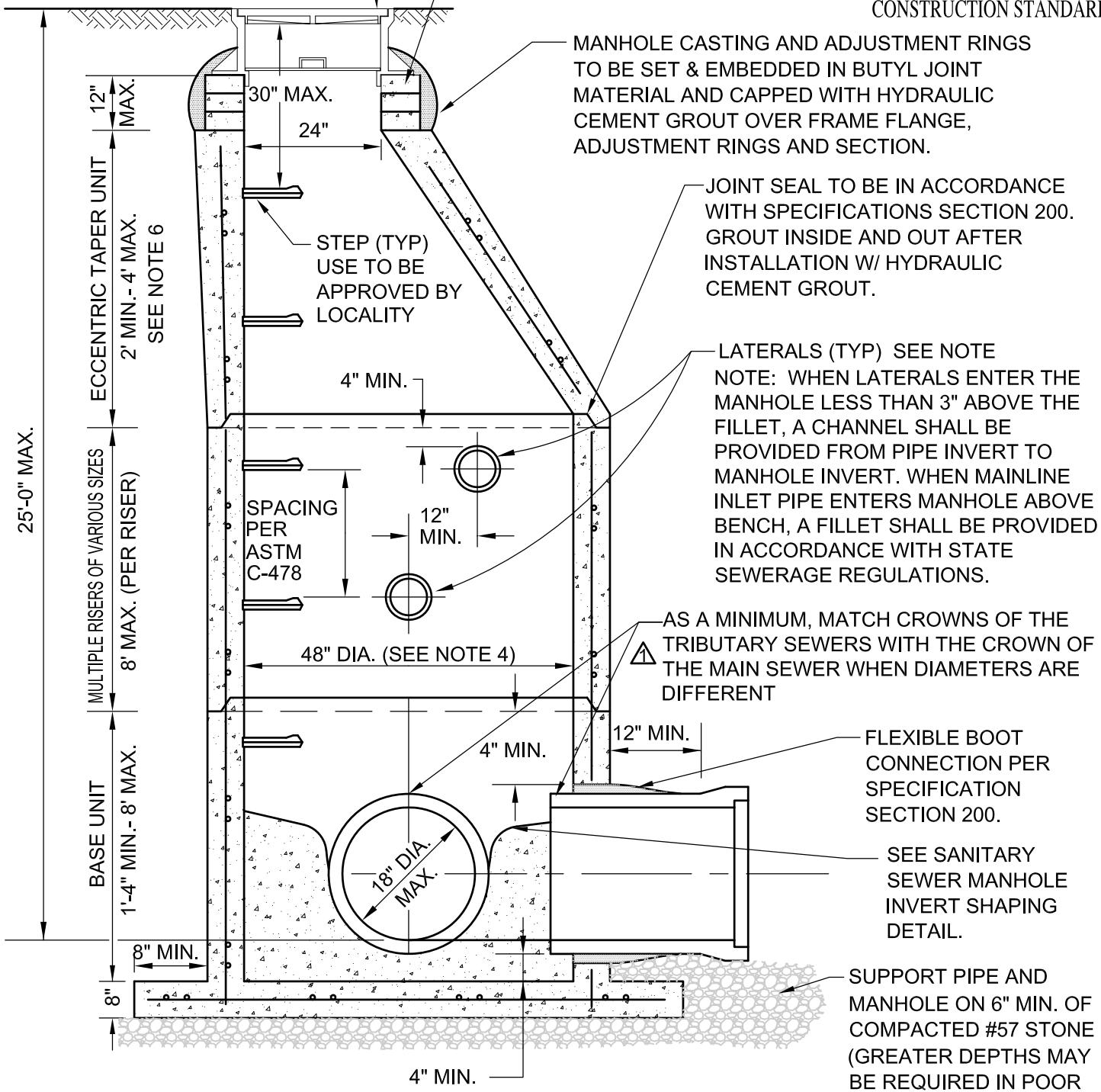
Replace Standard Details SS_01, SS_03, SS_04 and WS_03

April 24, 2014

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**CDM
Smith**

SEE SANITARY SEWER MANHOLE
CASTING AND COVER (24") DETAILS



SEE SS_01, SHEET 2 OF 2 FOR NOTES.

STANDARD PRECAST CONCRETE MANHOLE W/ EXTENDED MONOLITHIC BASE

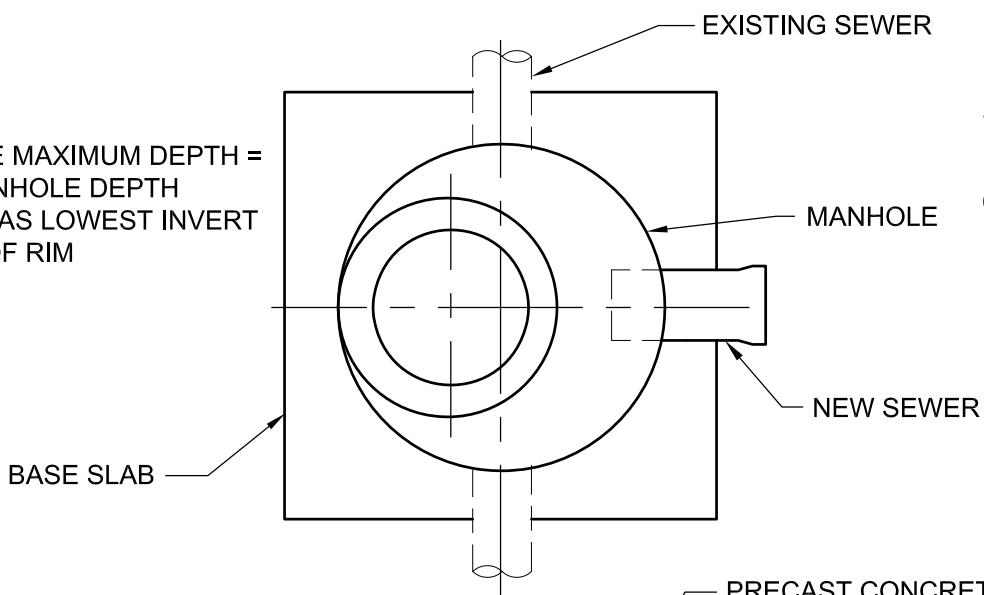
NOT TO SCALE

△ REVISED 10/24/13

REFERENCE	CATEGORY	DATE	SHEET No.	DETAIL No.
200,802	SANITARY SYSTEMS	12/10	1 OF 2	SS_01

NOTE:

MANHOLE MAXIMUM DEPTH =
25'-0" MANHOLE DEPTH
DEFINED AS LOWEST INVERT
TO TOP OF RIM



SEE SANITARY SEWER MANHOLE
CASTING AND COVER (24") DETAILS

FINISHED GRADE

MANHOLE STEP (TYP)
SPACING PER ASTM C-478

DOGHOUSE TYPE OPENING
RADIUS=1/2 PIPE O.D. + 2"
TOTAL HEIGHT=PIPE O.D. + 4"

PRECAST CONCRETE
MANHOLE SECTIONS

APPLY WATERSTOP
GROUTING BETWEEN
MANHOLE WALL AND
EXISTING PIPE

CONSTRUCT CONCRETE
CHANNEL AND BENCH IN
FIELD, SEE SANITARY
MANHOLE INVERT SHAPING
DETAIL

FIELD POUR BASE SLAB
UNDER EXISTING SEWER.
REINFORCE W/ #5 REBAR
@ 12" O.C. EACH WAY. ALL
REBAR TO HAVE 1-1/2" MIN.
COVER. CONCRETE TO BE
CLASS A-3.

PLAN

PRECAST CONCRETE
ADJUSTMENT RING (TYP)
RINGS TO BE COATED AND SEALED
SMOOTH ON ALL INSIDE SURFACES,
3/8" THICK (MIN.) WITH HYDRAULIC
CEMENT HIGH STRENGTH GROUT.

MANHOLE CASTING AND ADJUSTMENT RINGS
TO BE SET & EMBEDDED IN BUTYL JOINT
MATERIAL AND CAPPED WITH HYDRAULIC
CEMENT GROUT OVER FRAME FLANGE,
ADJUSTMENT RINGS AND SECTION.

JOINT SEAL TO BE IN ACCORDANCE
WITH SPECIFICATIONS SECTION 200.
GROUT INSIDE AND OUT AFTER
INSTALLATION W/ HYDRAULIC
CEMENT GROUT.

AS A MINIMUM, MATCH CROWNS OF THE
TRIBUTARY SEWERS WITH THE CROWN
OF THE MAIN SEWER WHEN DIAMETERS
ARE DIFFERENT

12" MIN.
FLEXIBLE BOOT
CONNECTION PER
SPECIFICATION
SECTION 200.

4" MIN.
EMBEDMENT

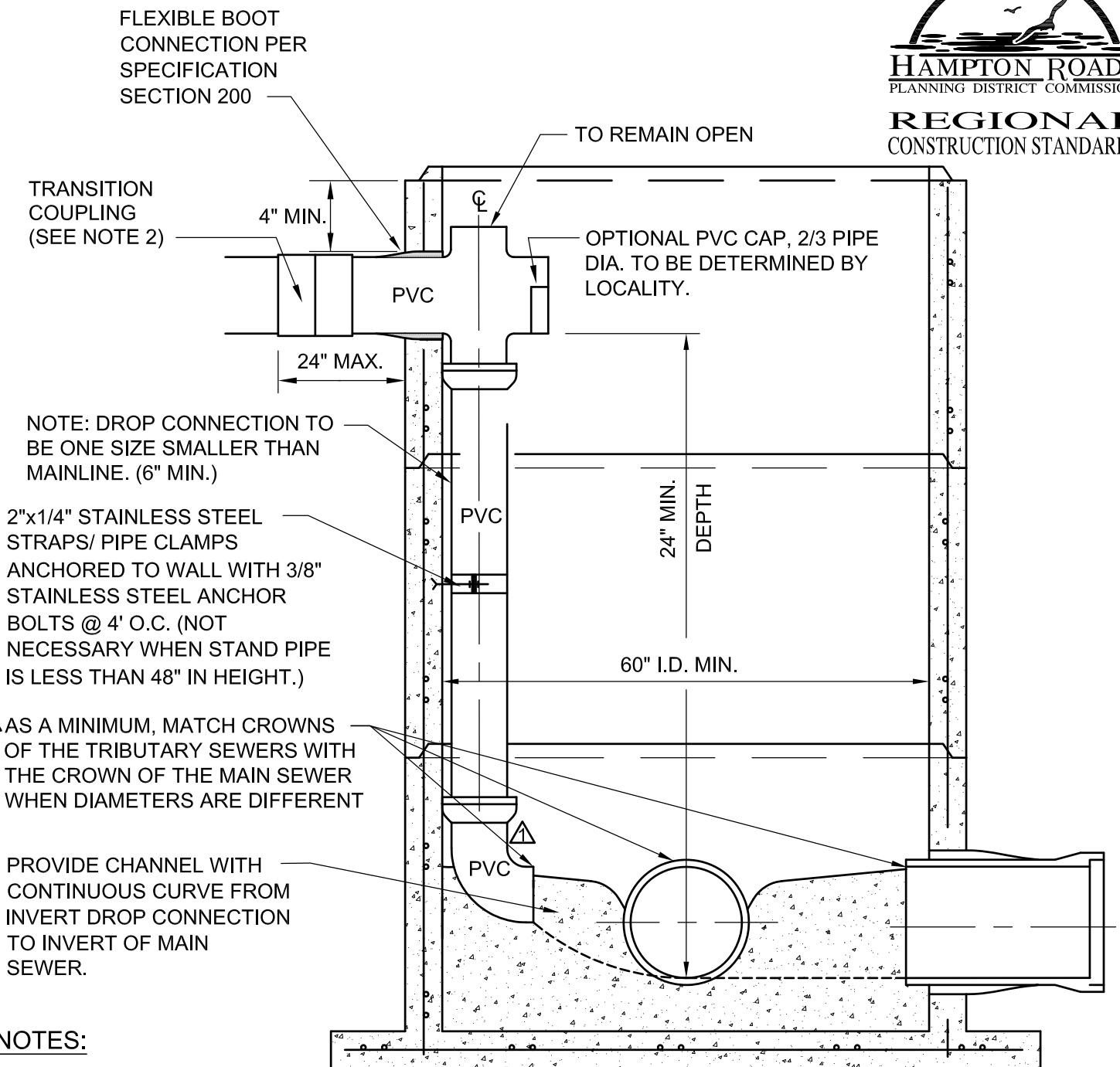
6" MIN.
8" MIN.
SUPPORT PIPE AND MANHOLE
ON 6" MIN. OF COMPAKTED #57
STONE (GREATER DEPTHS MAY
BE REQUIRED IN POOR SOILS)

SANITARY SEWER STRADDLE MANHOLE

NOT TO SCALE

△ REVISED 10/24/13

REFERENCE	CATEGORY	DATE	SHEET No.	DETAIL No.
200,802	SANITARY SYSTEMS	12/10	1 OF 2	SS_03



1. INTERIOR DROP TO BE USED IN NEW MANHOLES.
2. SOLVENT WELD JOINTS ON ALL INSIDE PIPING AND FITTINGS.
3. MAINLINE TO PVC DROP CONNECTION SHALL BE MADE WITH APPROVED COUPLING.
4. PLACEMENT OF DROP CONNECTION SHALL NOT CONFLICT WITH THE PLACEMENT OF THE MANHOLE STEPS.
5. BOTTOM 90 DEGREE BEND TO BE AT 45 DEGREES WITH RESPECT TO THE DOWNSTREAM FLOW.
6. PRECAST CONCRETE MANHOLE TO BE IN COMPLIANCE WITH ASTM C-478.

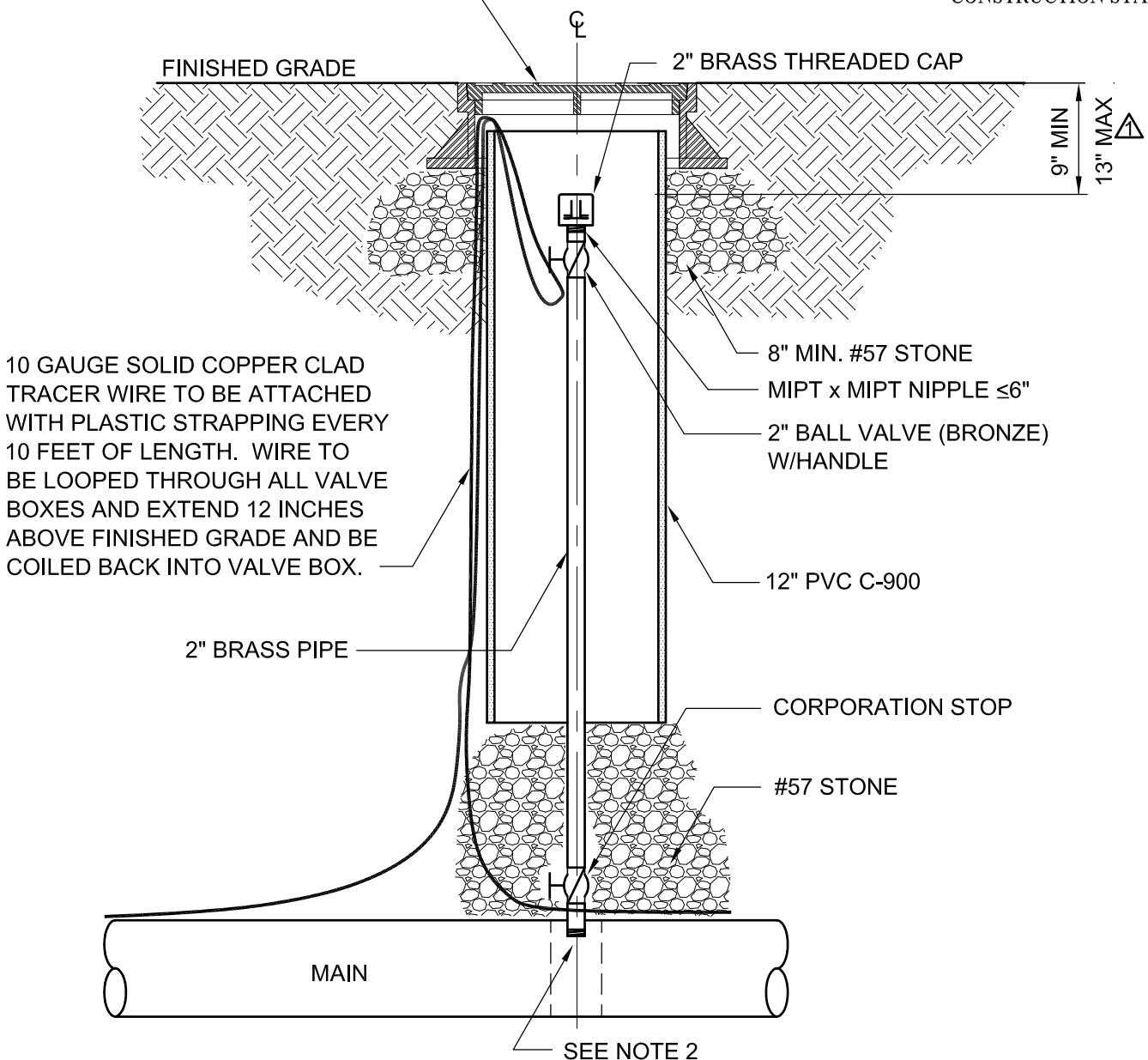
SANITARY SEWER INTERIOR DROP MANHOLE

NOT TO SCALE

△ REVISED 10/24/13

REFERENCE 200,802	CATEGORY SANITARY SYSTEMS	DATE 12/10	SHEET No. 1 OF 1	DETAIL No. SS_04
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SEE STANDARD VALVE BOX
FRAME AND COVER DETAIL



FITTING	INLET THREAD	OUTLET THREAD
CORPORATION STOP	AWWA/CC	FEMALE IRON PIPE
BALL VALVE	FEMALE IRON PIPE	FEMALE IRON PIPE
THREADED CAP	FEMALE IRON PIPE	N/A

MANUAL AIR VENT ASSEMBLY

NOT TO SCALE

△ REVISED 10/24/13

REFERENCE	CATEGORY	DATE	SHEET No.	DETAIL No.
200,801,803	WATER & SANITARY	12/10	1 OF 2	WS_03