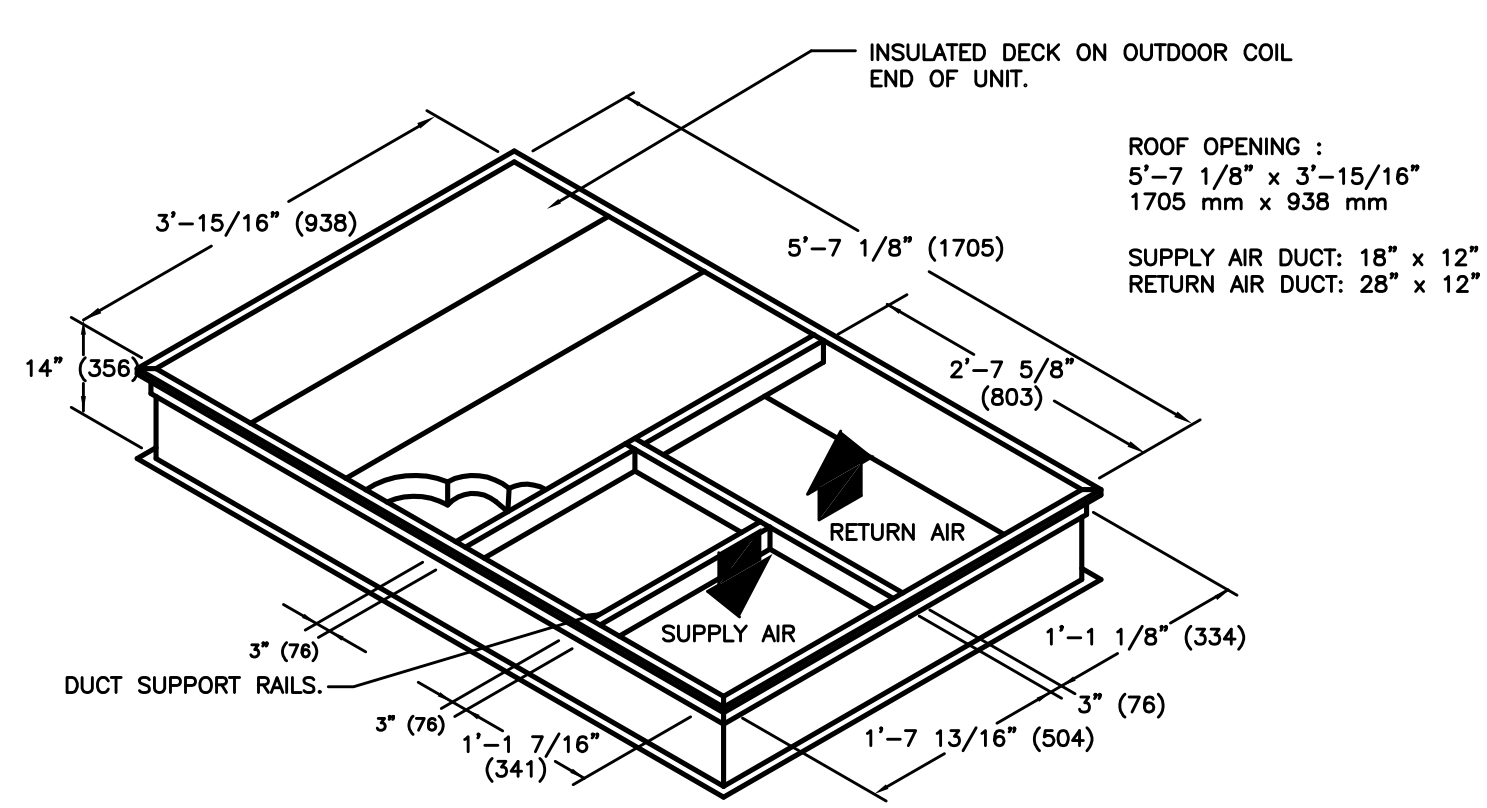


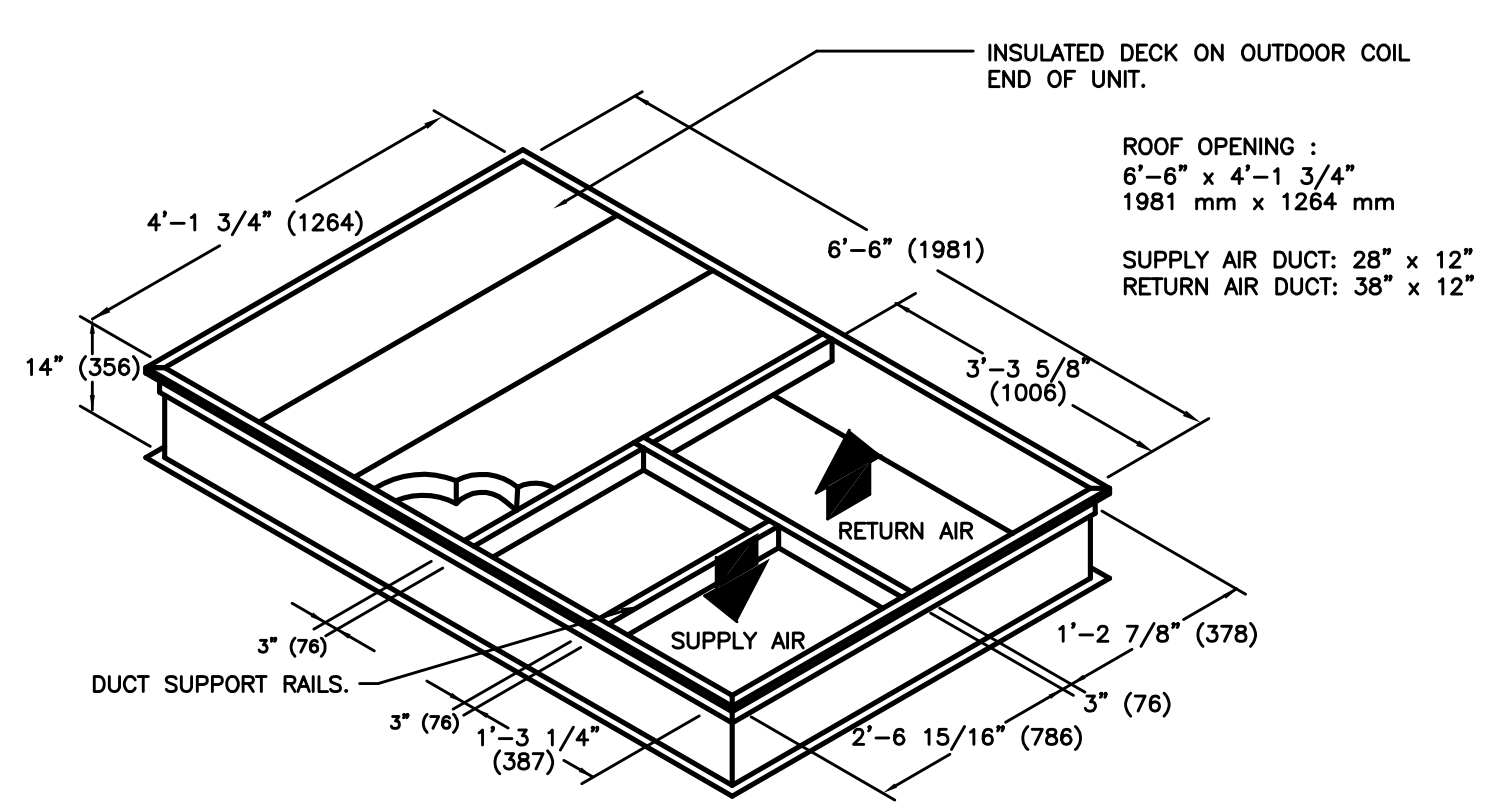
**ROOF CURB FOR 2 & 2.5 TON UNITS**

N.T.S.



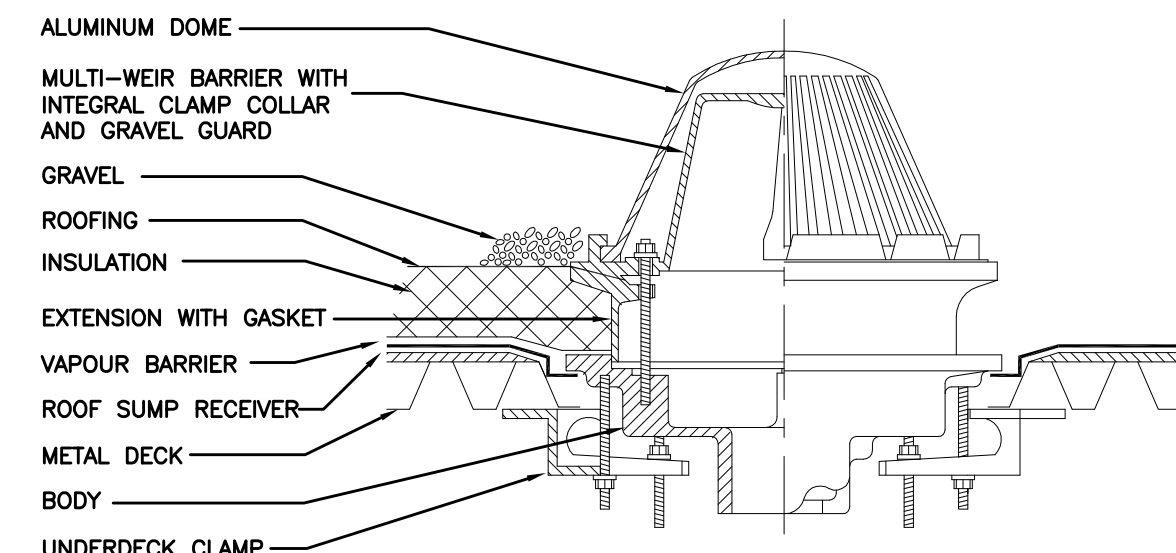
**ROOF CURB FOR 3 THRU. 6 TON UNITS**

N.T.S.



**ROOF CURB FOR 7.5 THRU. 12 TON UNITS**

N.T.S.

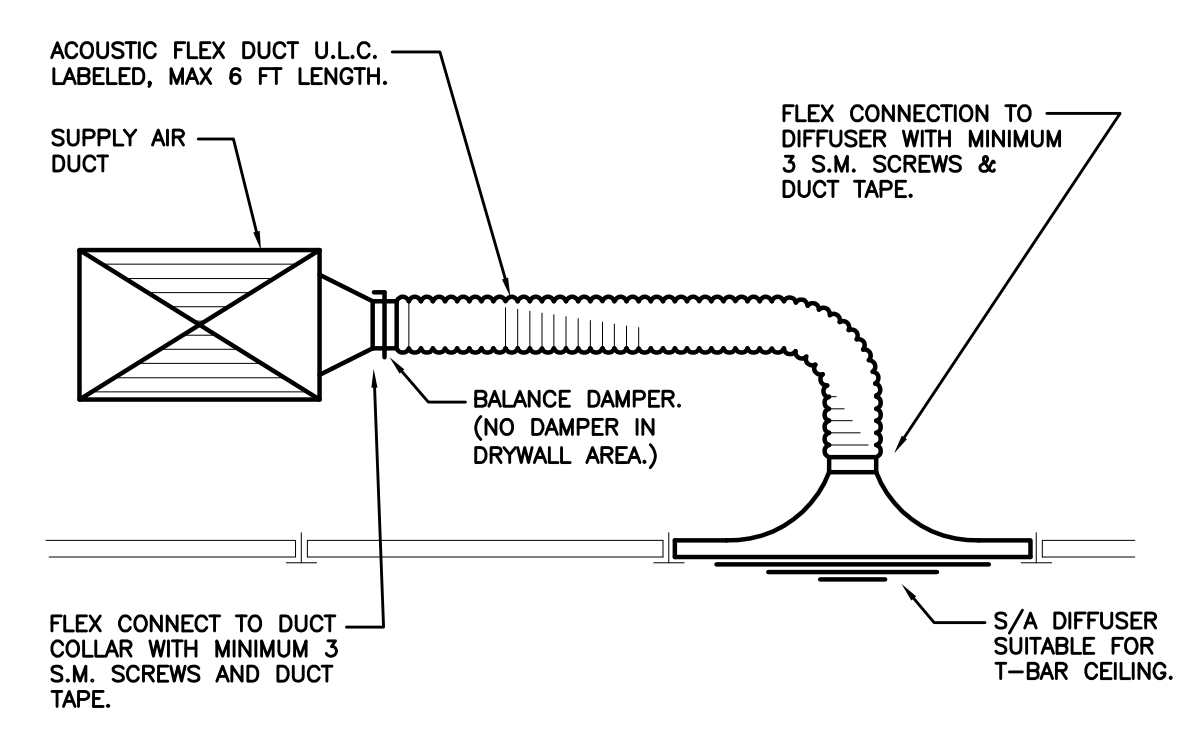


**ROOF DRAIN DETAIL**

N.T.S.

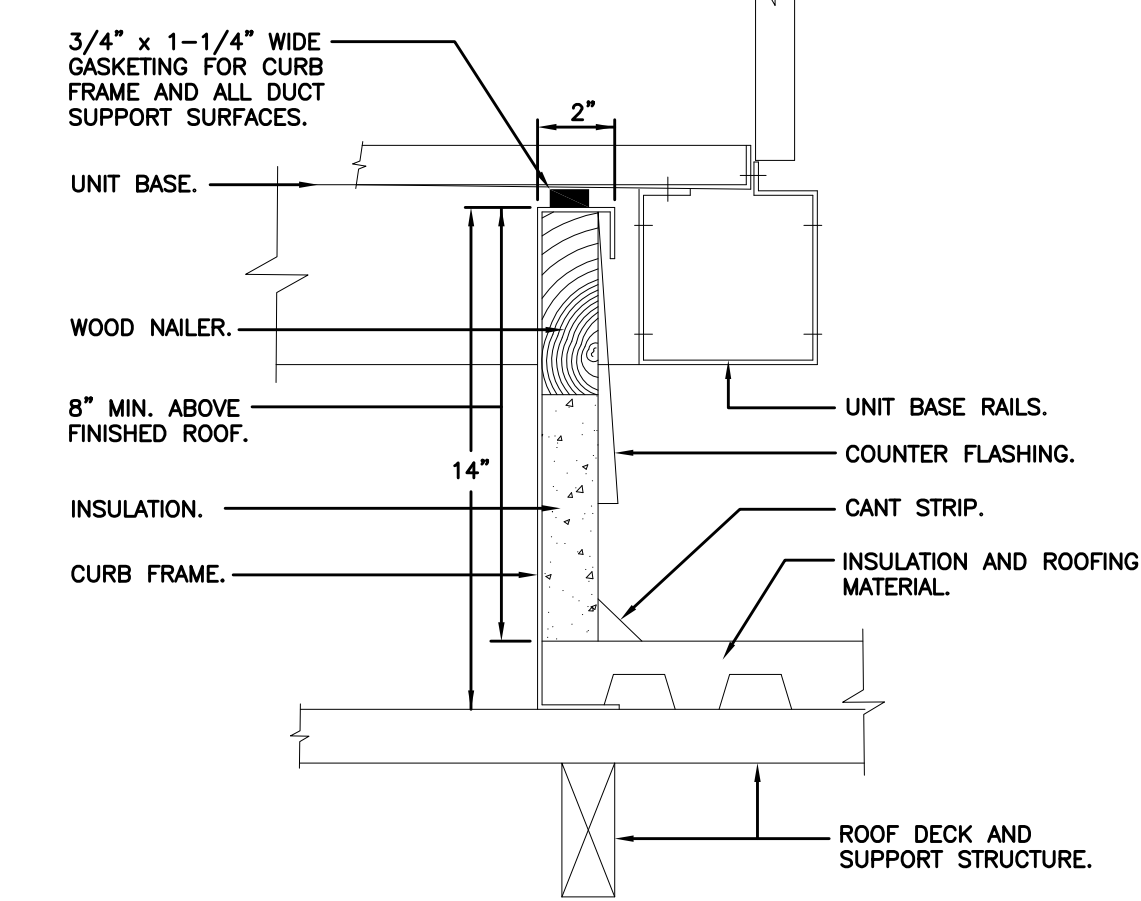
**GENERAL NOTES:**  
 1. USE SCALED DIMENSIONS IN PREFERENCE TO SIZING.  
 2. VERIFY AND CHECK ALL DIMENSIONS PRIOR TO AND DURING CONSTRUCTION.  
 3. DETERMINE LOCATIONS OF ALL EXISTING SERVICES.  
 4. PLANS ARE IN CONFORMANCE WITH THE OHTARIO BUILDING CODE.  
 ANY CHANGES, DISCREPANCIES, OR SUBSTITUTIONS SHALL BE REPORTED TO AND REVIEWED BY THE ENGINEER BEFORE PROCEEDING.

**TRINESTAR ENGINEERING**  
 Division of 1041549 Ontario Limited  
 30 West Beaver Creek Road, Unit #118  
 Richmond Hill, Ontario  
 Canada, L4B-3K1  
 Fax: (905) 882-1332  
 (905) 882-0736



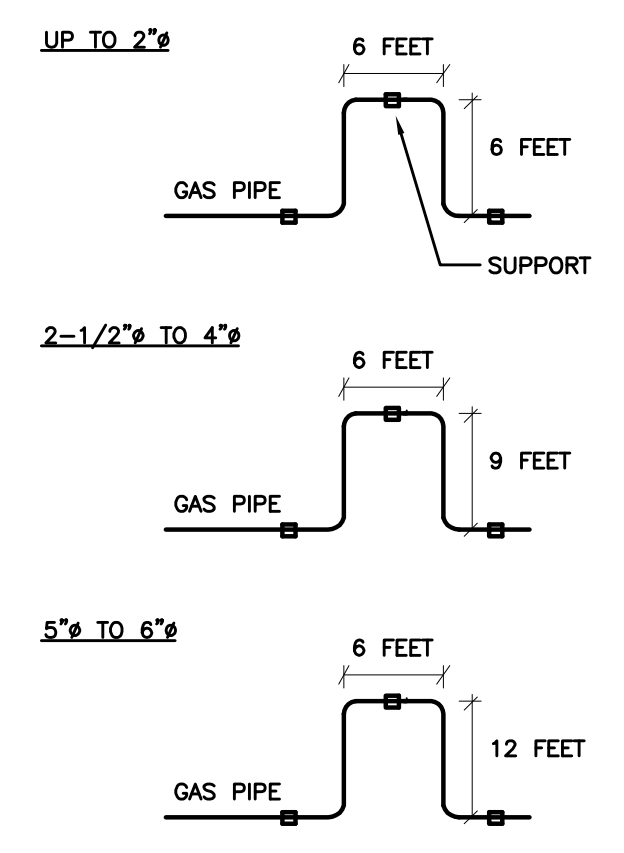
**SUPPLY AIR DIFFUSER CONNECTION DETAIL**

N.T.S.



**CURB DETAIL FOR ROOFTOP UNITS**

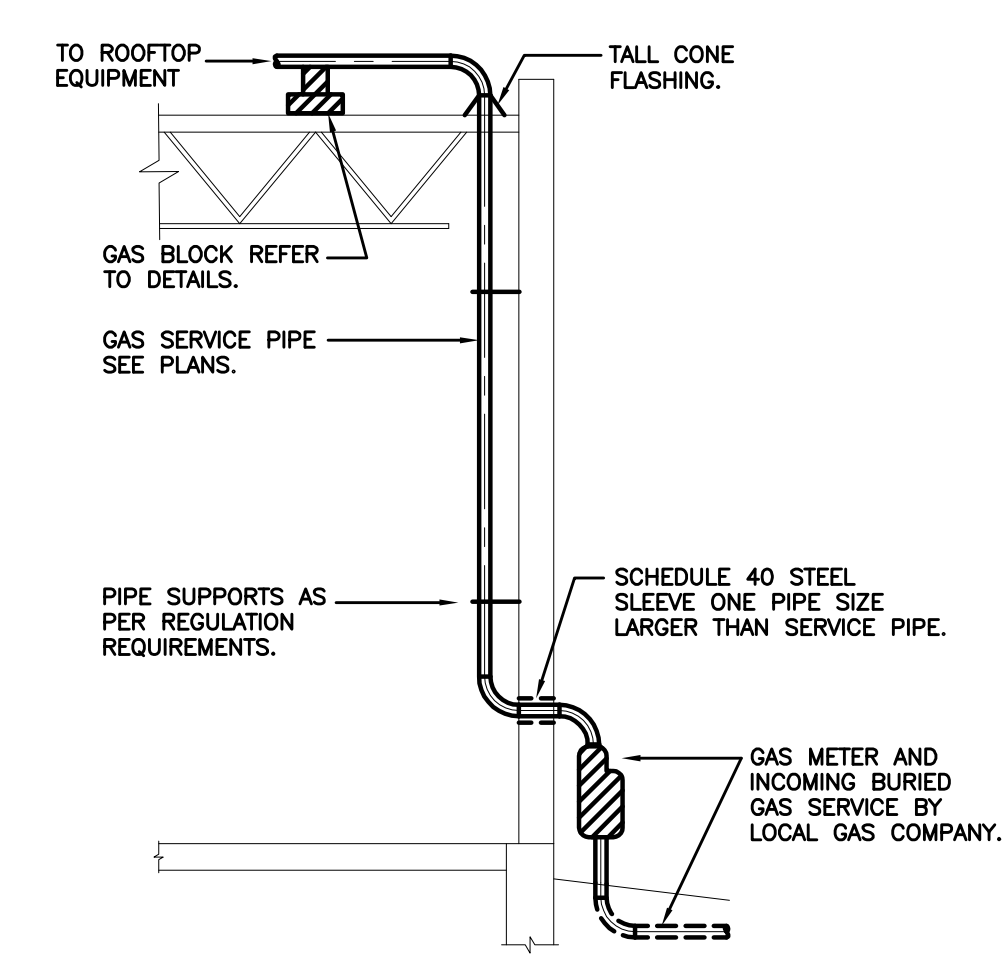
N.T.S.



**GAS EXPANSION LOOP DETAIL**

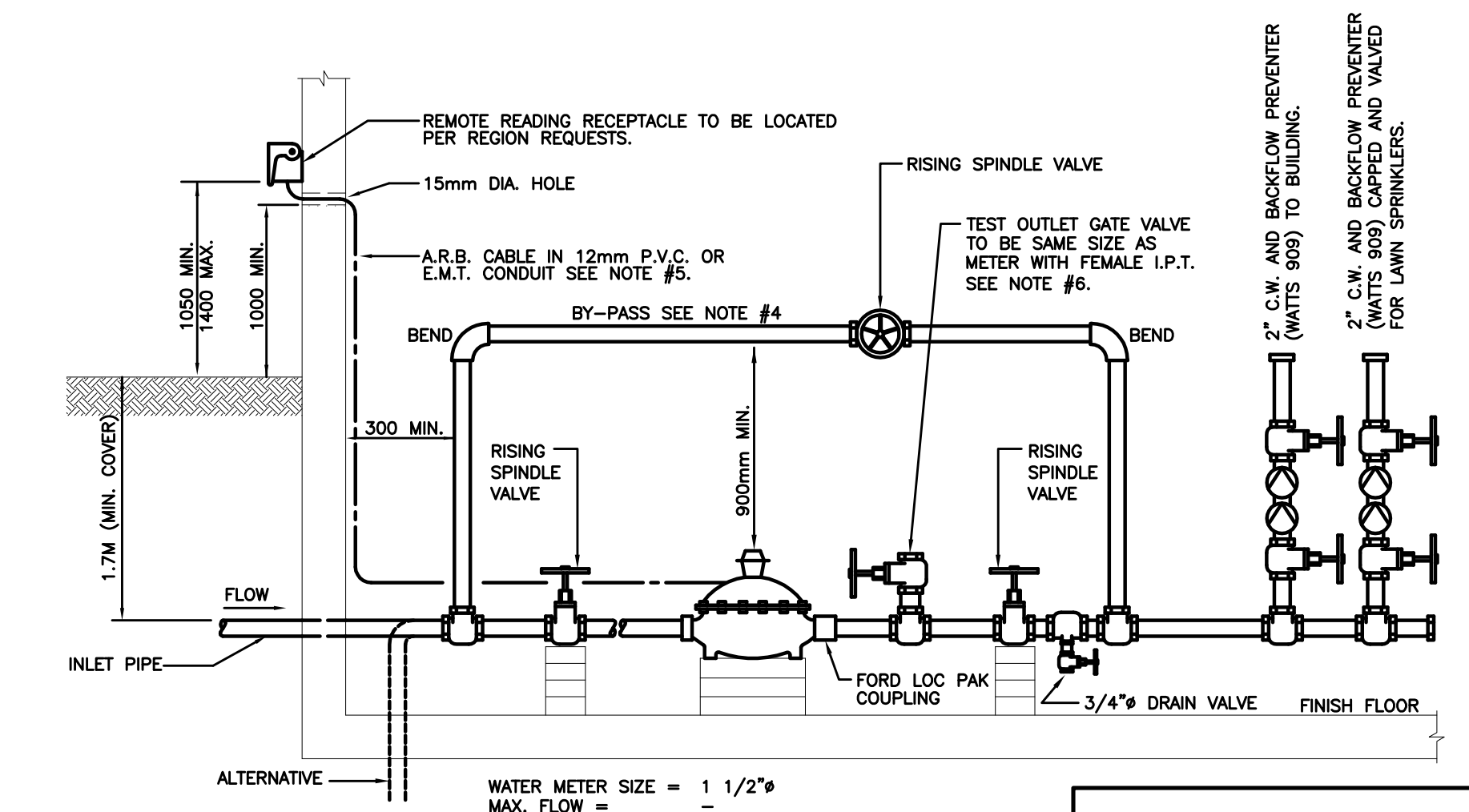
N.T.S.

**NOTE:**  
 LOOP SHALL BE PROVIDED ON EVERY APPROX. 100 FEET OF STRAIGHT PIPE.



**GAS SERVICE RISER DETAIL**

N.T.S.

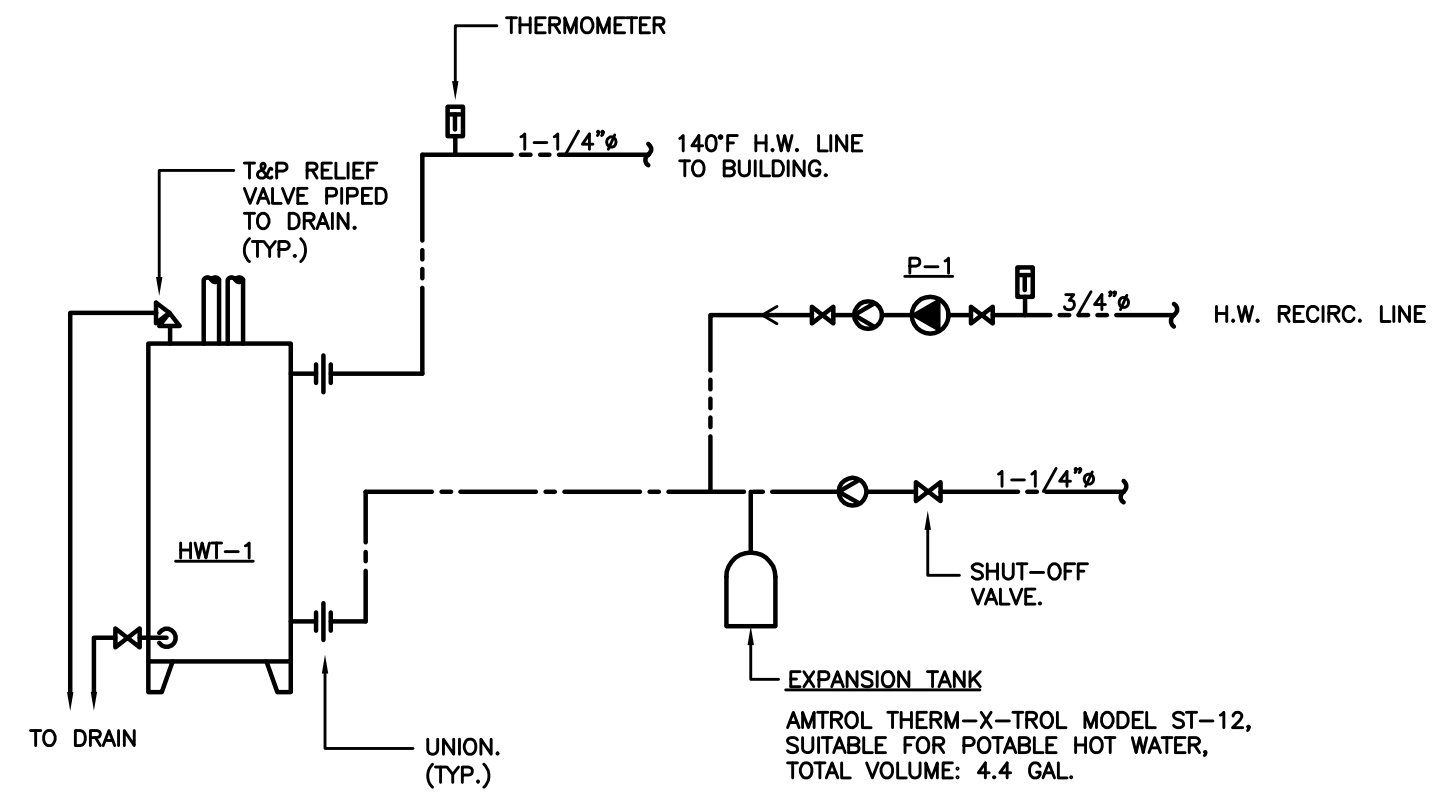


**40mm & 50mm DIA. WATER METER DETAIL**

N.T.S.

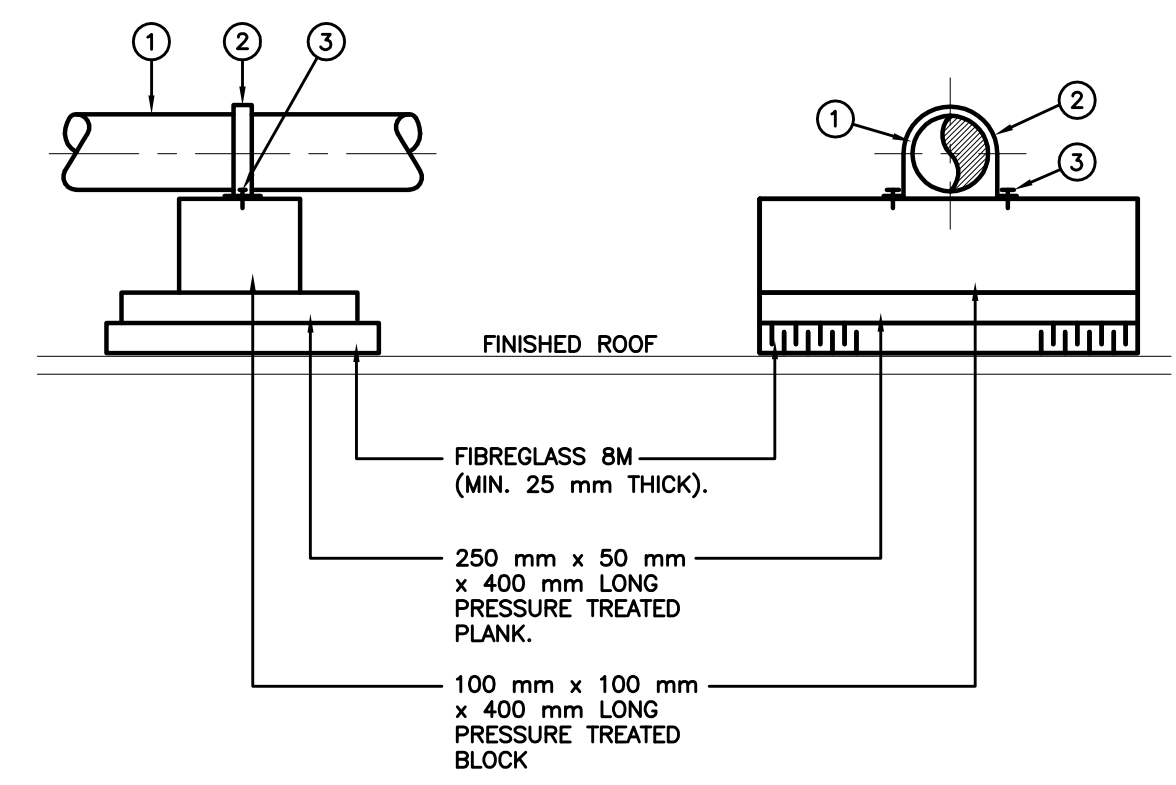
**NOTE:**  
 1. 300mm MINIMUM CLEARANCE BETWEEN WALLS AND CENTER LINE OF PIPE.  
 2. 100mm OR LARGER SERVICE MAY BE REDUCED BY USING TAPPING FLANGE.  
 3. IF HOT WATER TANK IS WITHIN 3.0m OF METER, THEN CHECK VALVE IS REQUIRED BETWEEN METER AND HOT WATER TANK.  
 4. BY-PASS MAY BE ONE PIPE SIZE SMALLER THAN METER SIZE AND MAY BE INSTALLED HORIZONTALLY.  
 5. WHERE METER ROOM IS NOT ADJACENT TO AN OUTSIDE WALL OR IS BELOW EXTERIOR FINISHED GRADE, THE CONTRACTOR/APPLICANT SHALL PROVIDE A CONTINUOUS E.M.T. CONDUIT COMPLETE WITH NYLON FISH LINE FROM METER ROOM TO 1000mm ABOVE EXTERIOR FINISHED GRADE.  
 6. TEST OUTLET MUST BE LOCATED BETWEEN THE OUTLET SIDE OF THE METER AND THE OUTLET SIDE ISOLATION VALVE.

**NOTE:**  
 BACK FLOW PREVENTERS SHALL BE INSTALLED BETWEEN 30" AND 60" AFF AS PER CSA-B64.10 PROVIDE REQUIRED CLEARANCE AS PER CSA-B64.10



**DOMESTIC HOT WATER SYSTEM**

**CIRCULATING PUMP P-1**  
 ARMSTRONG MODEL ASTRO-25, 120V/1ϕ/60, 0.58 AMP, 1/4" 24 HR TIMER. PUMP TO BE ALL BRONZE CONSTRUCTION. ALL WIRING BETWEEN TIMER & PUMP BY THIS DIVISION.



**GAS PIPING SUPPORT DETAIL**

N.T.S.

- ① SCHEDULE 40 STEEL PIPE.
- ② WROUGHT IRON STRAPS - GRINNELL FIG. 262 OR EQUAL, COAT WITH RUST PREVENTIVE PAINT.
- ③ CADMIUM PLATED No.12 - 50mm LONG WOOD SCREWS.

**PIPE SUPPORT SPACING: (HORIZONTAL)**

**NOTE:**  
 ALL PIPING TO BE PAINTED YELLOW OR BANDED AS PER CAN/CSA B149.1-00 LATEST EDITION.

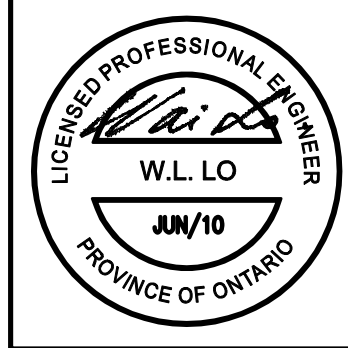
PIPE SIZE	SPACING
12 mm (1/2") OR LESS	2.0 m (6'-0")
19 mm - 25 mm (3/4" - 1")	2.5 m (8'-0")
32 mm - 65 mm (1 1/4" - 2 1/2")	3.0 m (10'-0")
75 mm - 100 mm (3" - 4")	5.0 m (15'-0")
125 mm - 200 mm (5" - 8")	6.0 m (20'-0")
250 mm (10") OR LARGER	8.0 m (25'-0")

**REVISIONS:**

NO.	DATE	DESCRIPTION
1	01 JUN 10	ISSUED FOR PERMIT & TENDER
2	01 JUN 10	ISSUED FOR PERMIT & TENDER
3	01 JUN 10	ISSUED FOR PERMIT & TENDER
4	01 JUN 10	ISSUED FOR PERMIT & TENDER
5	01 JUN 10	ISSUED FOR PERMIT & TENDER
6	01 JUN 10	ISSUED FOR PERMIT & TENDER
7	01 JUN 10	ISSUED FOR PERMIT & TENDER
8	01 JUN 10	ISSUED FOR PERMIT & TENDER
9	01 JUN 10	ISSUED FOR PERMIT & TENDER
10	01 JUN 10	ISSUED FOR PERMIT & TENDER

**STATUS:**

NO.	DATE	DESCRIPTION
1	01 JUN 10	ISSUED FOR PERMIT & TENDER
2	01 JUN 10	ISSUED FOR PERMIT & TENDER
3	01 JUN 10	ISSUED FOR PERMIT & TENDER
4	01 JUN 10	ISSUED FOR PERMIT & TENDER
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6	01 JUN 10	ISSUED FOR PERMIT & TENDER
7	01 JUN 10	ISSUED FOR PERMIT & TENDER
8	01 JUN 10	ISSUED FOR PERMIT & TENDER
9	01 JUN 10	ISSUED FOR PERMIT & TENDER
10	01 JUN 10	ISSUED FOR PERMIT & TENDER



**PROJECT OWNER:**

**PROJECT NAME:**  
 ATTRIDGE TRANSPORTATION  
 4130 HARVESTER ROAD

**DRAWING NO.:**  
 210-073

**DRAWING DATE:**  
 APRIL 2010

**DRAWING BY:**  
 W.L.

**CHECKED BY:**  
 W.L.

**SCALE:**  
 N.T.S.

**SET NO.:**

**MECHANICAL DETAILS**

**M5**