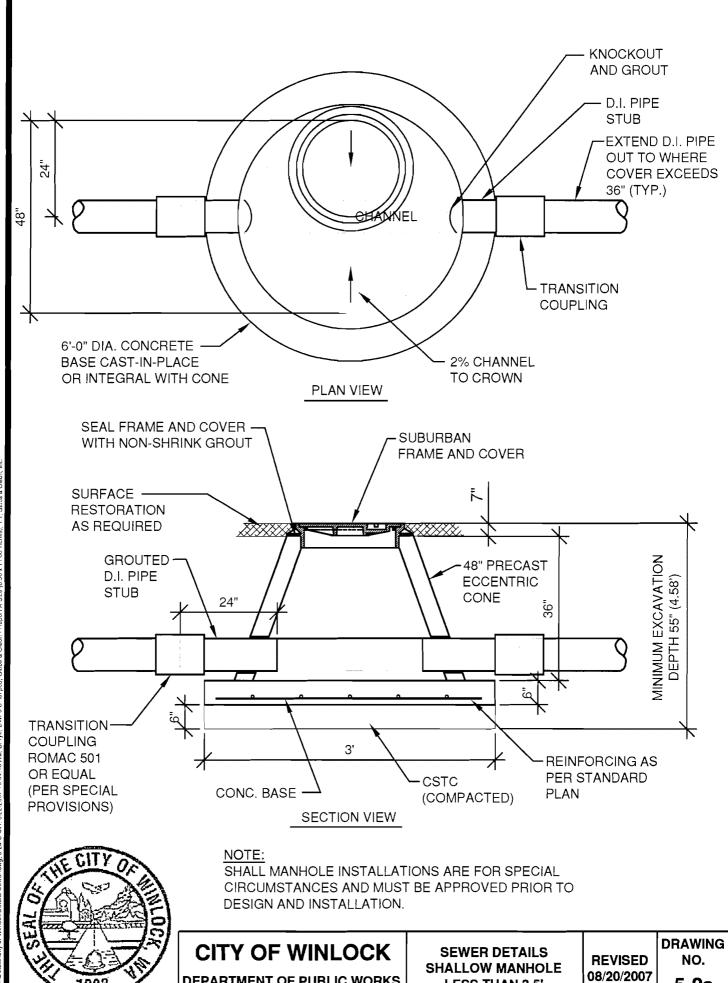
- 1. PRECAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM C478. JOINTS SHALL BE RUBBER GASKETED CONFORMING TO ASTM C443 AND SHALL BE GROUTED FROM THE INSIDE. LIFT HOLES AND GRADE RINGS SHALL BE GROUTED FROM THE OUTSIDE & INSIDE OF THE MANHOLE.
- 2. STEPS IN MANHOLE SHALL HAVE 6" MINIMUM CLEARANCE. HANDHOLES IN ADJUSTMENT SECTION SHALL HAVE 3" MINIMUM CLEARANCE. THE FIRST STEP OR HANDHOLD SHALL BE A MAXIMUM OF 12" FROM THE TOP OF THE COVER.
- 3. CONNECTION TO MANHOLE SHALL BE MADE BY KOR-N-SEAL BOOT, UNLESS AN ALTERNATIVE CONNECTION METHOD IS SPECIFICALLY APPROVED BY THE CITY.
- 4. NON-REINFORCED CONCRETE IN CHANNEL AND SHELF SHALL BE psi COMMERCIAL GRADE 3000.
- 5. SEE DETAIL 5-3 FOR MANHOLE COLLAR INSTALLATION.
- 6. A SEWER GUARD SHALL BE INSTALLED IN ANY MANHOLE SUBJECT TO FLOODING.



CITY OF WINLOCK **DEPARTMENT OF PUBLIC WORKS**

SEWER DETAILS TYPICAL MANHOLE

REVISED 08/20/2007 DRAWING NO. 5-1



DEPARTMENT OF PUBLIC WORKS

5-2a

LESS THAN 3.5'

7883



CITY OF WINLOCK

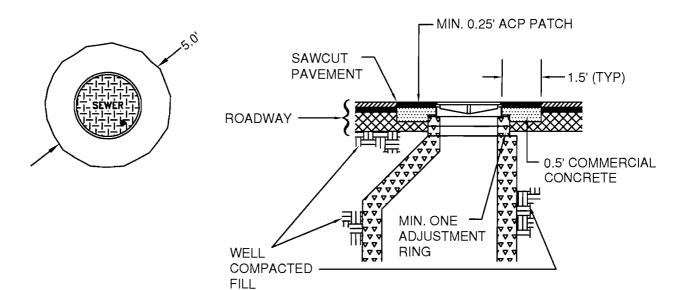
2. KNOCKOUTS SHALL HAVE A WALL THICKNESS

OF 2" MINIMUM TO 21/2" MAXIMUM.

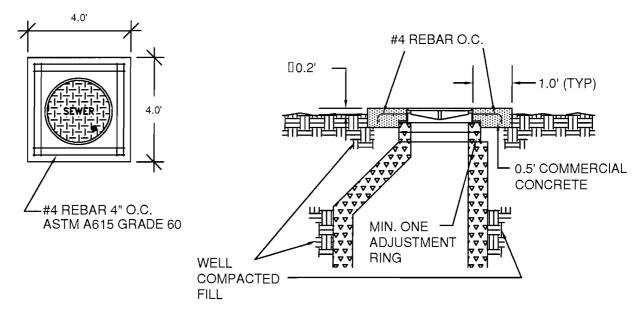
SEWER DETAILS SHALLOW MANHOLE 3.5' - 5.5'

REVISED 08/20/2007 DRAWING NO. 5-2b

MANHOLE IN ASPHALT



MANHOLE OUTSIDE ASPHALT



NOTES:

- 1. FRAME AND COVER SHALL BE OLYMPIC FOUNDARY MH26 AND MH26S OR APPROVED EQUAL.
- 2. SINGLE OPENING IN LID FOR USE OF MANHOLE HOOK IS REQUIRED.
- 3. JOINTS BETWEEN EACH ADJUSTMENT RING INCLUDING WHERE FRAME & MANHOLE CONE MEET RINGS, SHALL INCLUDE ACTIVATED OAKUM OR APPROVED EQUAL.



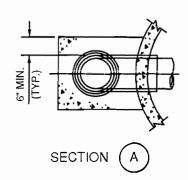
CITY OF WINLOCK

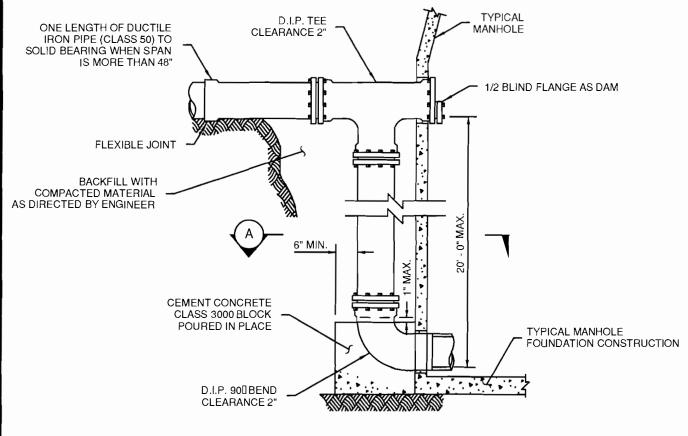
DEPARTMENT OF PUBLIC WORKS

SEWER DETAILS MANHOLE COLLAR REVISED 08/20/2007

DRAWING NO.

¹⁷ 5-3





ELEVATION

DUCTILE IRON DROP CONNECTION



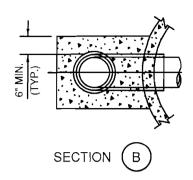
CITY OF WINLOCK
DEPARTMENT OF PUBLIC WORKS

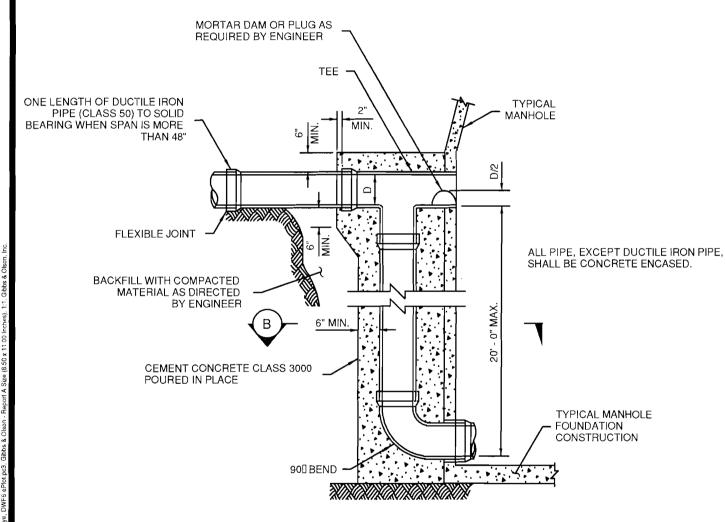
SEWER DETAILS DROP CONNECTION A -DUCTILE IRON ENCASED

REVISED 08/20/2007

DRAWING NO. **5-4a**

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ELEVATION

CONCRETE ENCASED **DROP CONNECTION**



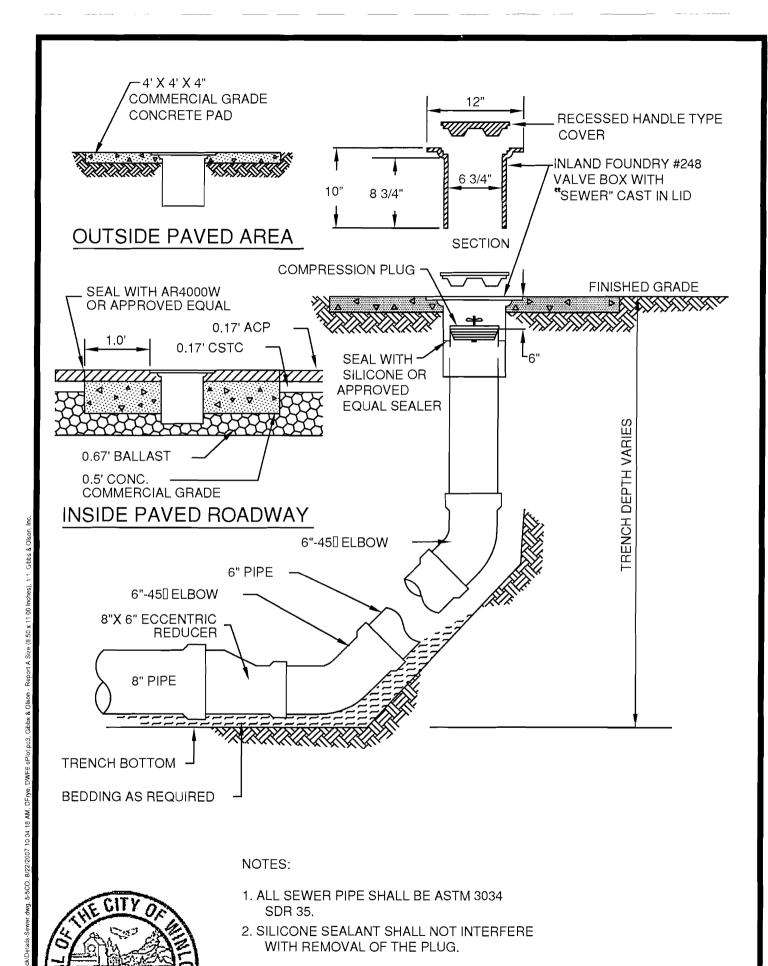
CITY OF WINLOCK

DEPARTMENT OF PUBLIC WORKS

SEWER DETAILS DROP CONNECTION B-CONECRETE ENCASED

REVISED 08/20/2007 DRAWING NO.

5-4b



CITY OF WINLOCK

DEPARTMENT OF PUBLIC WORKS

SEWER DETAILS

CLEANOUT

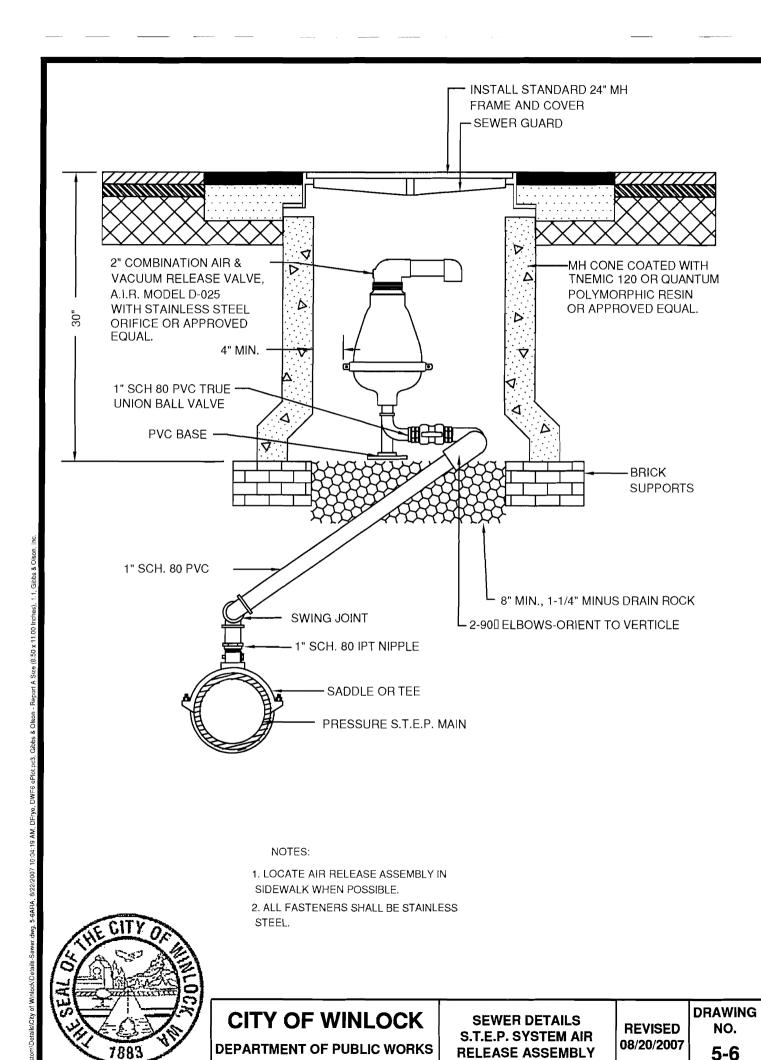
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5-5

REVISED

08/20/2007



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CITY OF WINLOCK DEPARTMENT OF PUBLIC WORKS

OPTION 1
SEWER DETAILS
LATERAL SERVICE
CONNECTION

REVISED 9/10/2020 DRAWING NO.

5-7



NOTE 1 - INSTALL 12 GA. DETECTABLE TRACER WIRE ABOVE SEWER SERVICE LINE FROM THE SEWER MAIN TO THE 4" CLEANOUT.

NOTE 2 - INSTALL DETECTABLE TRACER WIRE 12" ABOVE THE SEWER SERVICE LINE FROM THE SEWER MAIN TO THE 4" CLEANOUT.

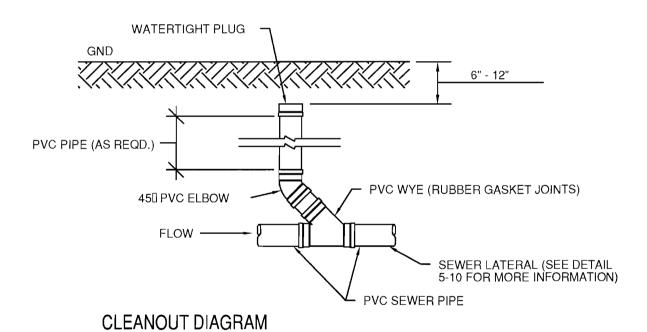
CITY OF WINLOCK
DEPARTMENT OF PUBLIC WORKS

OPTION 2 SEWER DETAILS LATERAL SERVICE CONNECTION

REVISED 9/10/2020

DRAWING NO. 5-7a

CLEANOUT DIAGRAM FOR RETROFITTING EXISTING SERVICES



FOR NEW SERVICES

NOTES:

- 1. ALL JOINT CONNECTIONS SHALL BE RUBBER GASKETED.
- 2. SANITARY TEES MAY BE USED FOR DEPTHS LESS THAN 3', LIPON APPROVAL OF THE PUBLIC WORKS DIRECTOR.



CITY OF WINLOCK

SEWER DETAILS SIDE SEWER CLEANOUT

REVISED 08/20/2007 **DRAWING** NO. 5-8

DEPARTMENT OF PUBLIC WORKS

NOTES:

- BOLTS, NUTS, WASHERS, AND 1/2" N.C. ROLL THREAD ARE TO BE TEFLON COATED.
- 2. THE STAINLESS BAND SHALL BE 3 1/2" MINIMUM WIDTH.
- 3. ALL FASTENERS SHALL BE STAINLESS STEEL.
- 4. PIPE MUST BE CORED (DRILLED) WITH A HOLE SAW OF APPROVED DIAMETER. CORE HOLE MUST BE INSPECTED AND APPROVED.



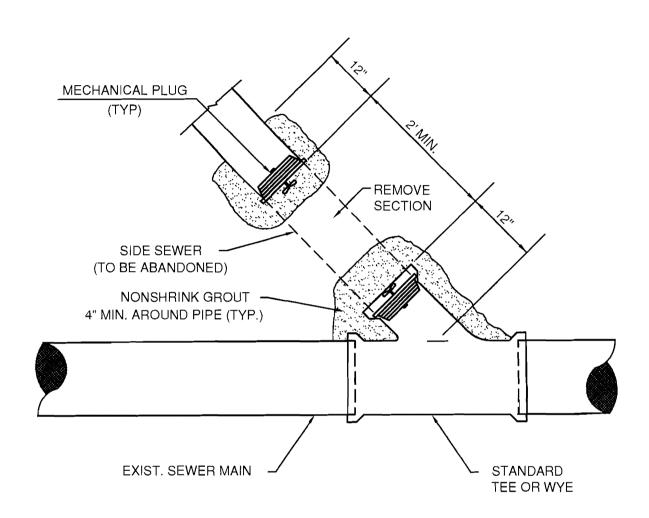
CITY OF WINLOCK

DEPARTMENT OF PUBLIC WORKS

SEWER DETAILS SANITARY SEWER SADDLE TAP

REVISED 08/20/2007 DRAWING NO.

^{/2007} 5-9



NOTE:

THIS DETAIL SHALL APPLY TO SIDE SEWERS WHICH ARE TO BE ABANDONED.

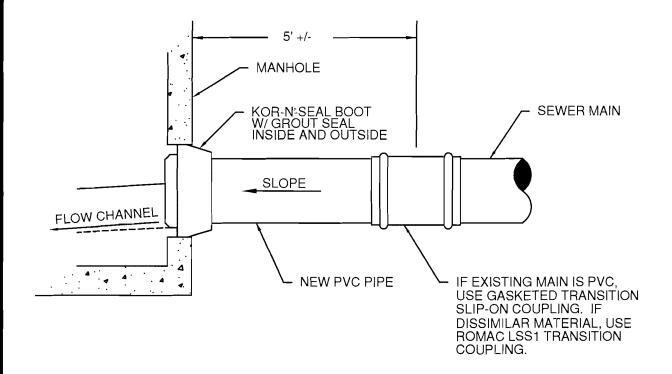


CITY OF WINLOCK
DEPARTMENT OF PUBLIC WORKS

SEWER DETAILS SIDE SEWER PLUG REVISED 08/20/2007

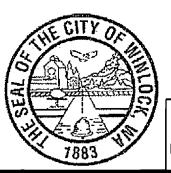
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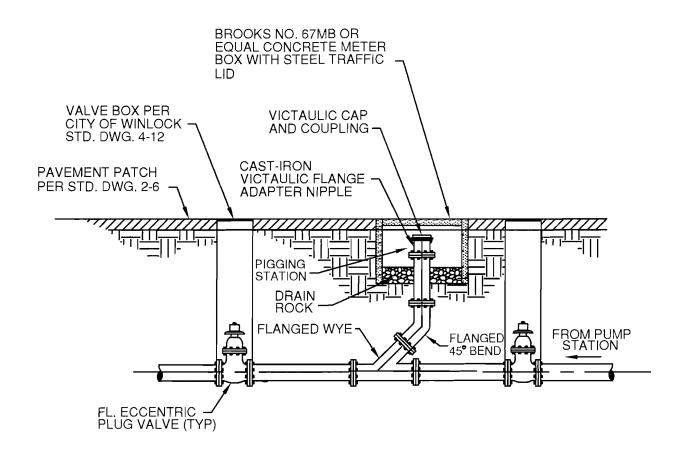
²⁰⁰⁷ 5-10



NOTES:

- 1. ALL FASTENERS & CLAMPS ARE TO BE STAINLESS STEEL.
- 2. NEW SECTION OF PIPE IS TO BE INSTALLED AT APPROXIMATELY THE SAME SLOPE AS THE EXISTING LINE.
- 3. USE SLIP-ON GASKETED COUPLING FOR PVC AND OTHER COUPLINGS AS DIRECTED BY THE CITY WHEN CONNECTING TO OTHER EXISTING PIPE MATERIALS.





NOTE:

SUBSTITUTE MATERIALS CAN BE USED, UPON APPROVAL BY THE CITY, IF MAIN LINES ARE HDPE OR PVC.



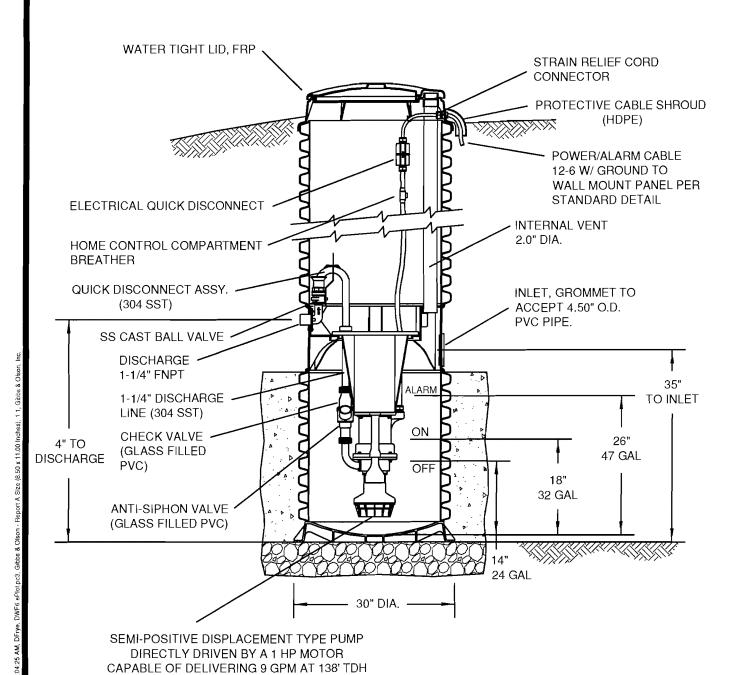
CITY OF WINLOCK

SEWER DETAILS
PIG PORT

REVISED 08/20/2007

DRAWING NO. 5-12

DEPARTMENT OF PUBLIC WORKS



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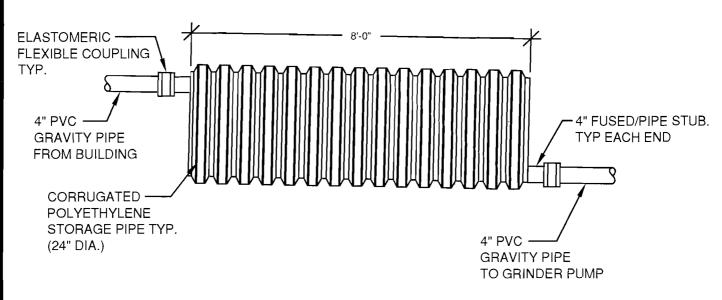
CITY OF WINLOCK
DEPARTMENT OF PUBLIC WORKS

SEWER DETAILS
GRINDER PUMP DETAIL

REVISED 08/20/2007

NO.

5-13





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CITY OF WINLOCK

SEWER DETAILS GRINDER PUMP STORAGE PIPE

REVISED 08/20/2007 DRAWING NO. 5-14

DEPARTMENT OF PUBLIC WORKS

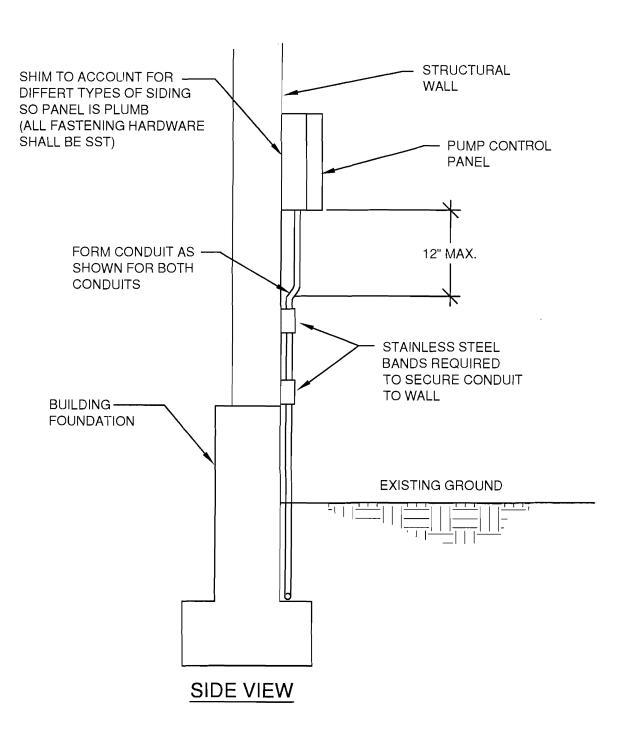
FRONT VIEW



CITY OF WINLOCK DEPARTMENT OF PUBLIC WORKS

SEWER DETAILS TYPICAL PUMP CONTROL PANEL INSTALLATION

REVISED 08/20/2007 **DRAWING** NO. 5-15a

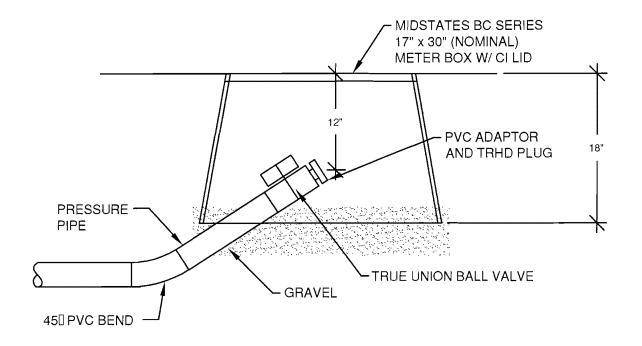




CITY OF WINLOCK
DEPARTMENT OF PUBLIC WORKS

SEWER DETAILS
TYPICAL PUMP CONTROL
PANEL INSTALLATION

REVISED 08/20/2007 DRAWING NO. 5-15b





CITY OF WINLOCK
DEPARTMENT OF PUBLIC WORKS

SEWER DETAILS PVC PRESSURE CLEANOUT DETAIL

REVISED 08/20/2007 DRAWING NO. 5-16

SURE 08/20/2007 DETAIL