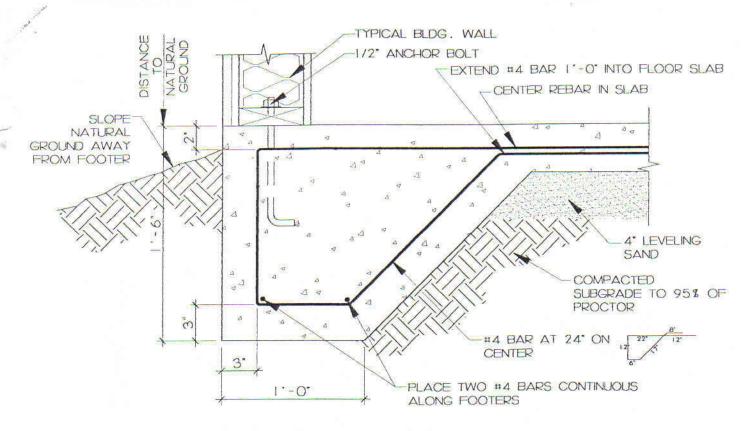
NOTE: Where Trench passes through existing pavement the pavement shall be cut in accordance with section 201.12 (G.) of attached specifications. Vertical trench walls with shoring to conform to Wyoming Occupational Health Existing Street and Safety Rules and Regulations on Surface Construction, Table XVI - 2., Subgrade or ۵.۵.۵.۹ Ground Surface Backslope as specified to conform to Wyoming Occupational Health and 95% Compaction Type "A" Backfill Safety Rules and Regulations on Construction, Table XVI - 1. Type "A", "B" or "C" Trench Backfill -Bedding Material Placed in 6" Layers & compacted Type 1 or 2 Bedding, to Pipe Manufacturer as Specified -Recommendations Pipe Bedding Material Compacted to Pipe, _ Manufacturer's Recommendation Type 2 Pipe Bedding where Required for Soft or Unstable Foundation. Standard City of Lander Scale: Typical Trench Detail

Standard Specifications

None

Drawing

No.201.01



TYPICAL MONOLITIC FOUNDATION

SCALE 1 1/2" = 1'-0"

NOTES

I REINFORCING DIAGRAM REPRESENTS MINIMUM REQUIREMENTS. REINFORCEMENT VARIES WITH LOADINGS AND SOIL CONDITIONS. BUILDERS ARE ENCOURAGED TO SEEK PROFESSIONAL ADVICE FOR DIFFERING SITE CONDITIONS. MONOLITHIC FOUNDATIONS ARE APPLICABLE WHEN APPROVED BY BUILDING INSPECTION DEPARTMENT.

- 2. NOTE: FURTHER INFORMATION CONTACT BUILDING INSPECTION DEPARTMENT, 332-2588.
- 3. DESIGN CRITERIA
 - A. MINIMUM CONCRETE COVER FOR REINFORCEMENT IS 3 INCHES EXCEPT FLOOR.
 - B. SOIL BEARING STRENGTH CBR = 5%
 - C. ANCHOR BOLTS MINIMUM 1/2" DIA. SET BOLTS 7" INTO CONCRETE WALL SPACING 6'-0" ON CENTER SET BOLTS WITHIN 12" OF EACH CORNER OR END RUN.
 - D. REINFORCING BAR YIELD STRENGTH . 40 k.s.i.
 - E. CONCRETE DESIGN fc = 3500 psi

5.5 SACK

MINIMUM

W/C RATIO 0.45

TYPE II MODIFIED

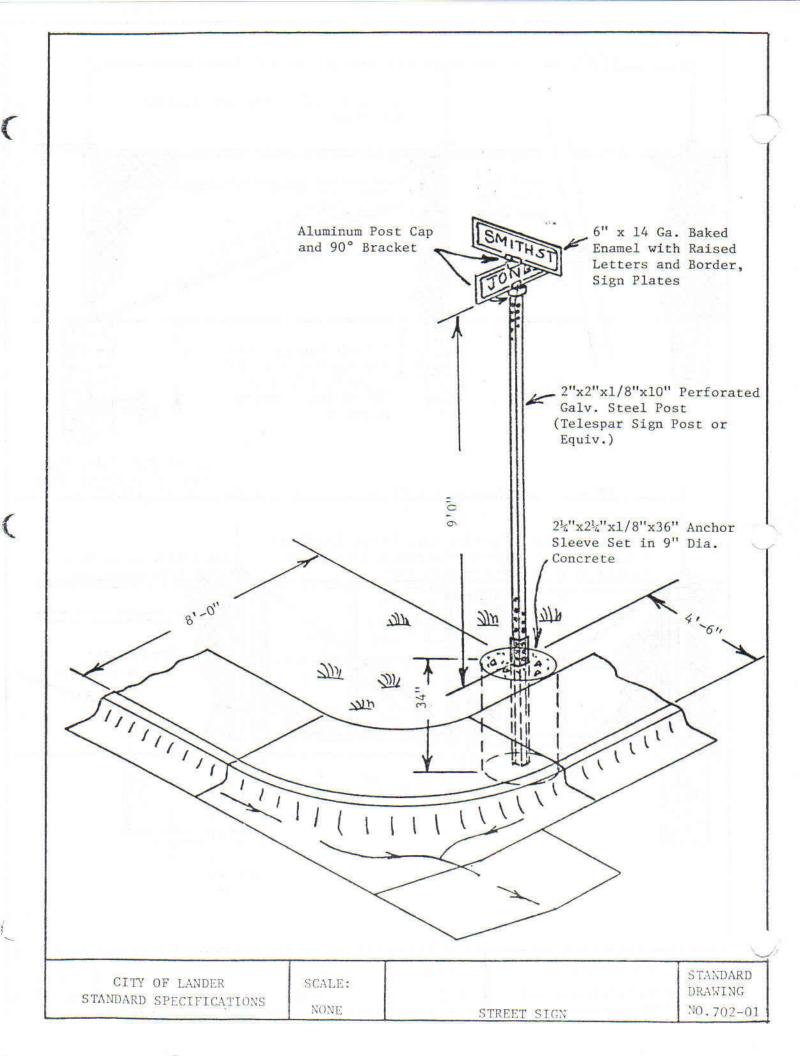
C3A ≤ 5%

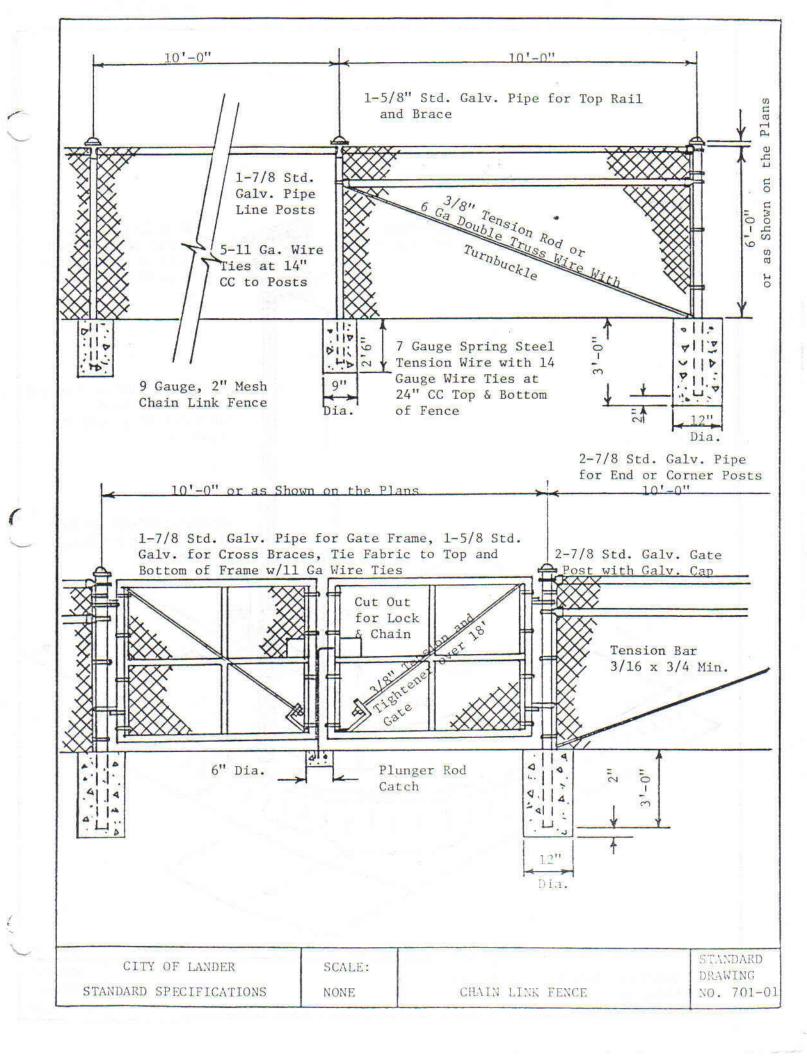
F. LAP SPLICES - ON SLAB CORNERS, INSTALL #4 BAR FOR EACH #4 BAR IN FOOTER.

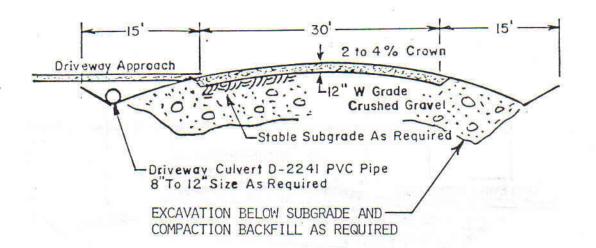
4. NOTE: OTHER MINIMUM DESIGNS MAY BE SUBSTITUTED WITH PRIOR WRITTEN APPROVAL BY BUILDING INSPECTION DEPARTMENT.



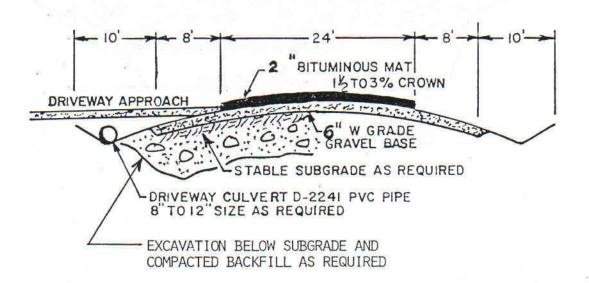




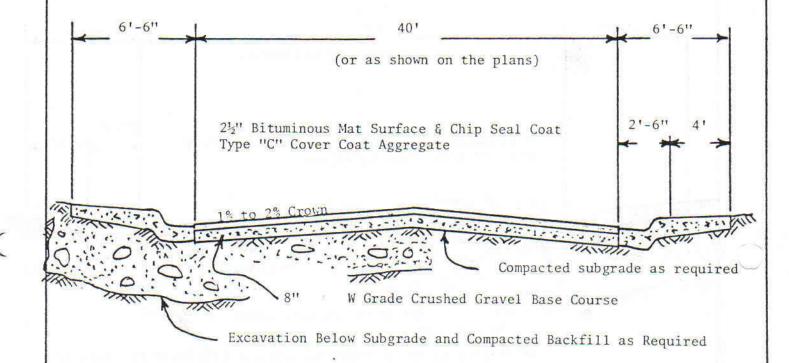




- 1. Excavation below subgrade backfill compaction shall not be less than 95% of AASHTO T-99.
- 2. Grade W crushed base course aggregate compaction shall not be less than 95% of AASHTO T-99.

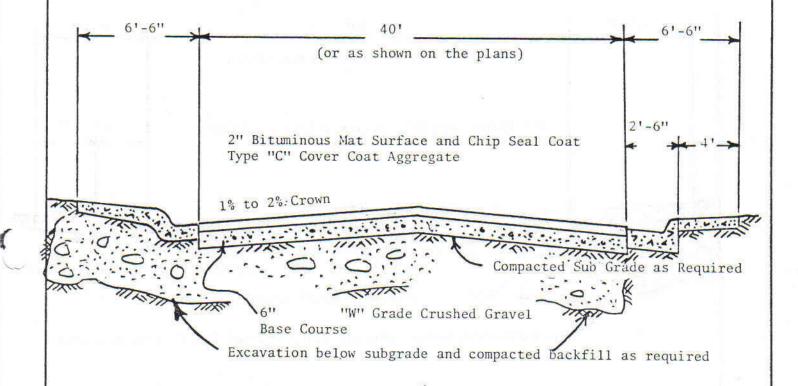


- 1. Excavation below subgrade backfill compaction shall not be less than 95% of AASHTO T-99.
- 2. Grade W crushed base course aggregate compaction shall not be less than 95% of AASHTO T-99.
- 3. Prime coat may be required at the option of the City.
- 4. Bituminous pavement shall be compacted to not less than 95% of maximum lab density.



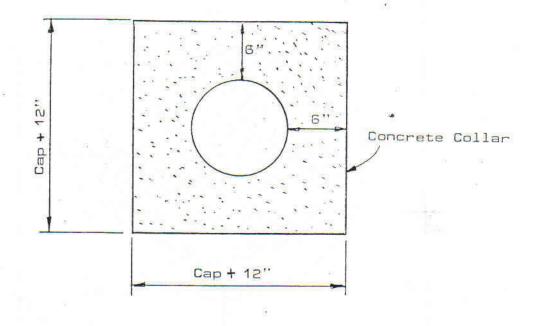
- 1. Excavation below subgrade backfill compaction shall not be less than 95% of AASHTO T-99.
- 2. Grade W crushed base course aggregate compaction shall not be less than 95% of AASHTO T-99.
- Edges of existing pavement and concrete shall be tacked with SS-1 emulsion or approved equal.
- 4. Prime coat may be required at the option of the City.
- 5. Bituminous pavement shall be compacted to not less than 95% of maximum lab density.

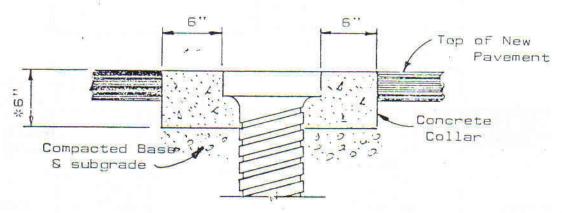
STANDARD SPECIFICATION NOVE COLLECTOR STREET DETAIL NO.609-0	CITY OF LANDER STANDARD SPECIFICATION	SCALE NONE	COLLECTOR STREET DETAIL	STANDARD DRAWING NO.609-02
--------------------------------------------------------------	------------------------------------------	---------------	-------------------------	----------------------------------



- 1. Excavation below subgrade backfill compaction shall not be less than 95% of AASHTO T-99.
- 2. Grade W crushed base course aggregate compaction shall not be less than 95% of AASHTO T-99.
- Edges of existing pavement and concrete shall be tacked with SS-1 emulsion or approved equal.
- 4. Prime coat may be required at the option of the City.
- 5. Bituminous pavement shall be compacted to not less than 95% of maximum lab density.

DOCAL DIALET DELATE	CITY OF LANDER STANDARD SPECIFICATION	SCALE NONE	LOCAL STREET DETAIL	STANDARD DRAWING NO. 609-01
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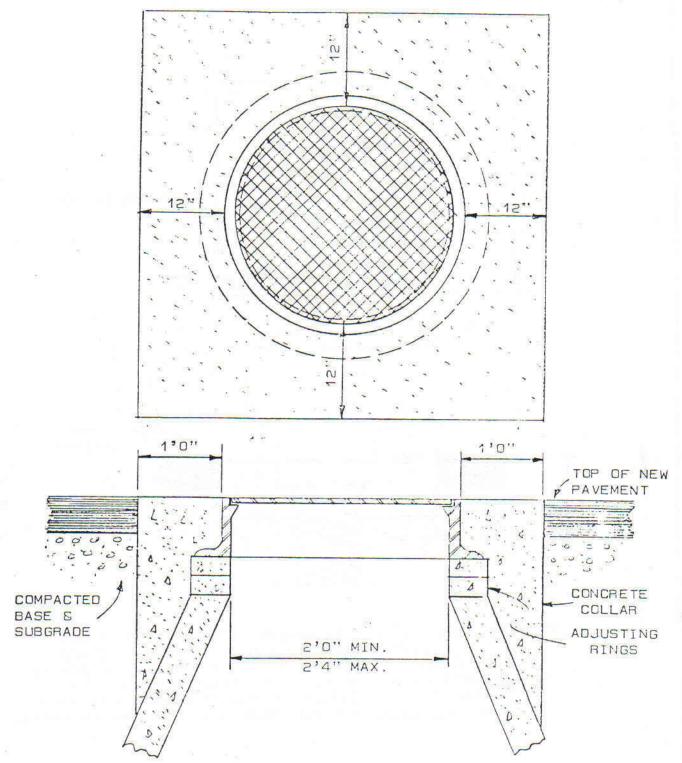


NOTE:1)Adjust water valves upward or downward as required.
Final adjustment shall be made after paving and
before seal coating. No payment shall be made for
adjustment of new valves to final grade.
2)* When Concrete Collar is poured abutting to concrete
pavement, depth should equal that of pavement section.

CITY OF LANDER STANDARD SPECIFICATIONS

Scale: None WATER VALVE ADJUSTMENT DETAIL

Standard Drawing No.505-DZ

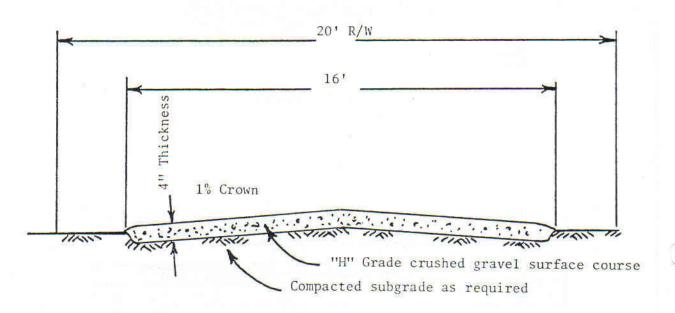


NOTE: Adjust manholes upward with brick & mortal or adjusting rings under frame. Adjust manhole downward by removing a portion of the manhole riser and rebuilding to proper diameter. Slope manhole ring as required to match longitudinal & transverse grade on street. Final manhole adjustment will be made after paving and before seal coating. No payment shall be made for adjustment of new manholes to final grade.

CITY OF LANDER STANDARD SPECIFICATIONS Scale: None

MANHOLE ADJUSTMENT DETAIL

Standard Drawing No.305-01

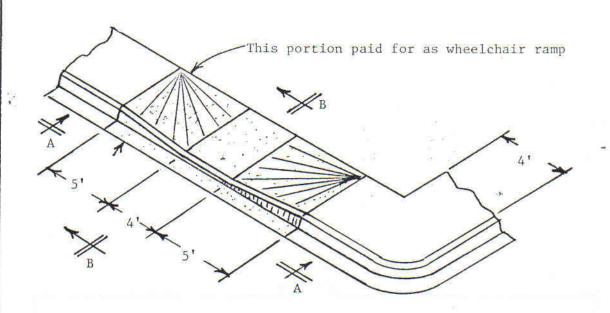


- Subgrade to be shaped and compaction shall not be less than 95% of AASHTO T-99.
- 2. Grade "H" crushed surface course aggregate compaction shall not be less than 95% of AASHTO T-99.

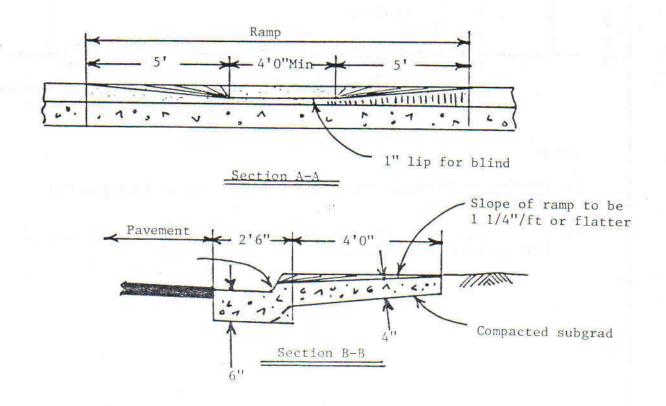
CITY OF LANDER STANDARD SPECIFICATIONS SCALE

UNPAVED ALLEY DETAIL

STANDARD DRAWING NO. 603.01



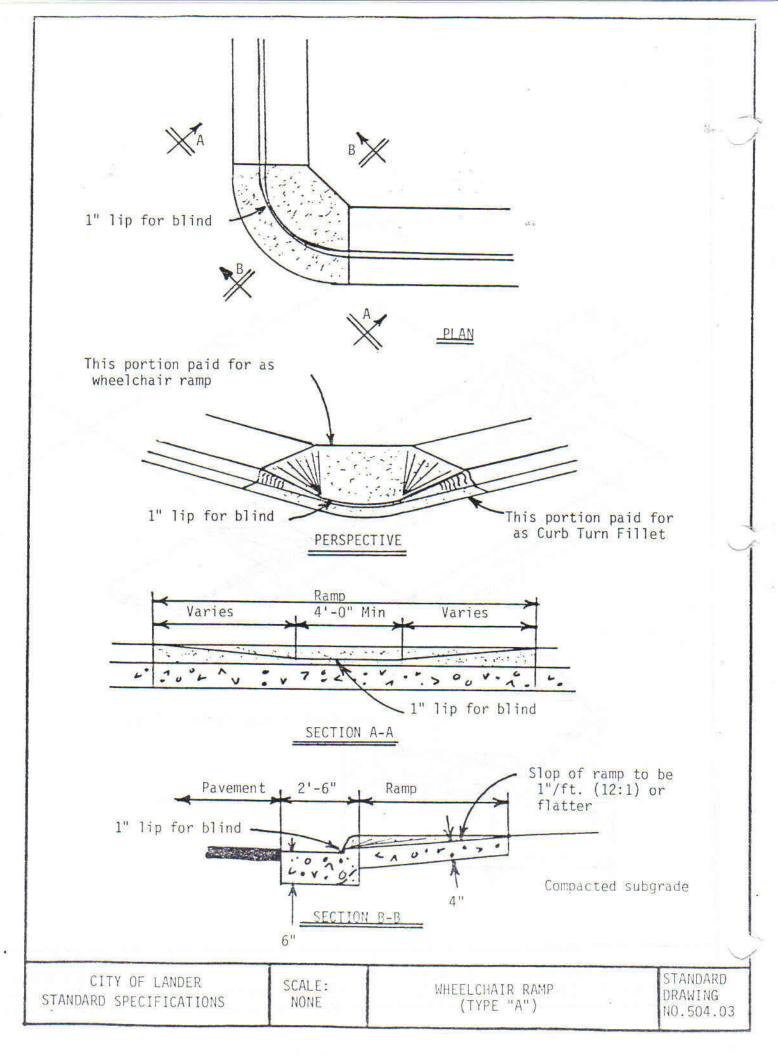
Perspective

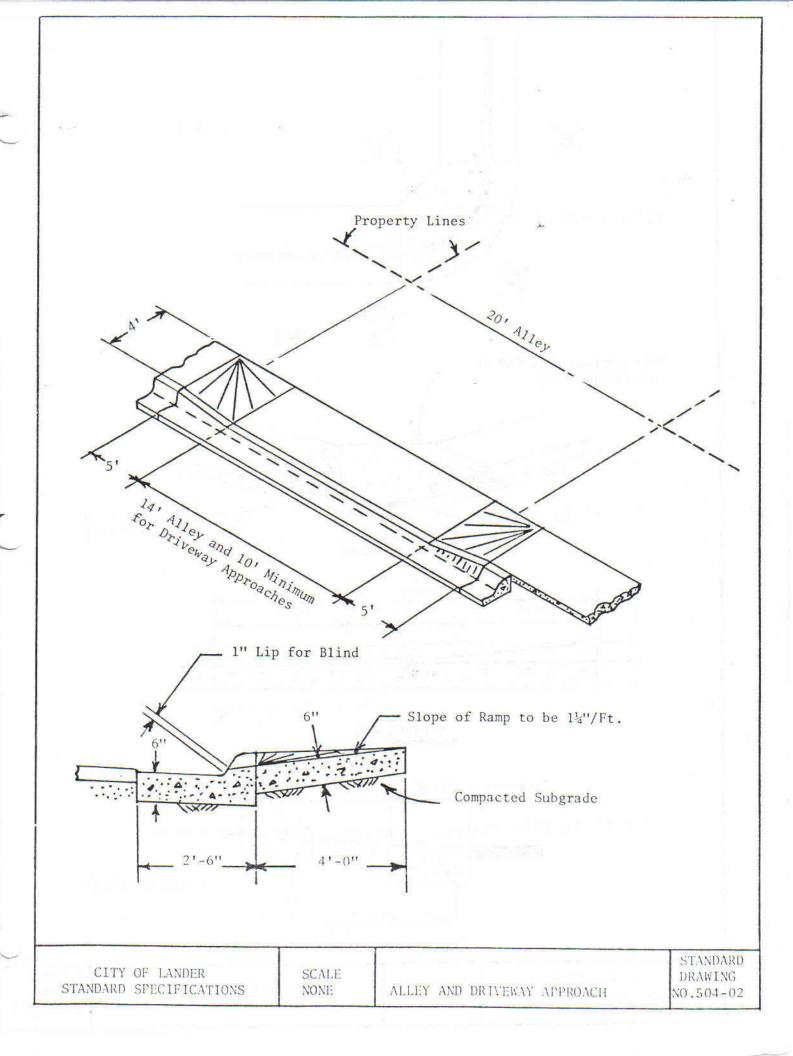


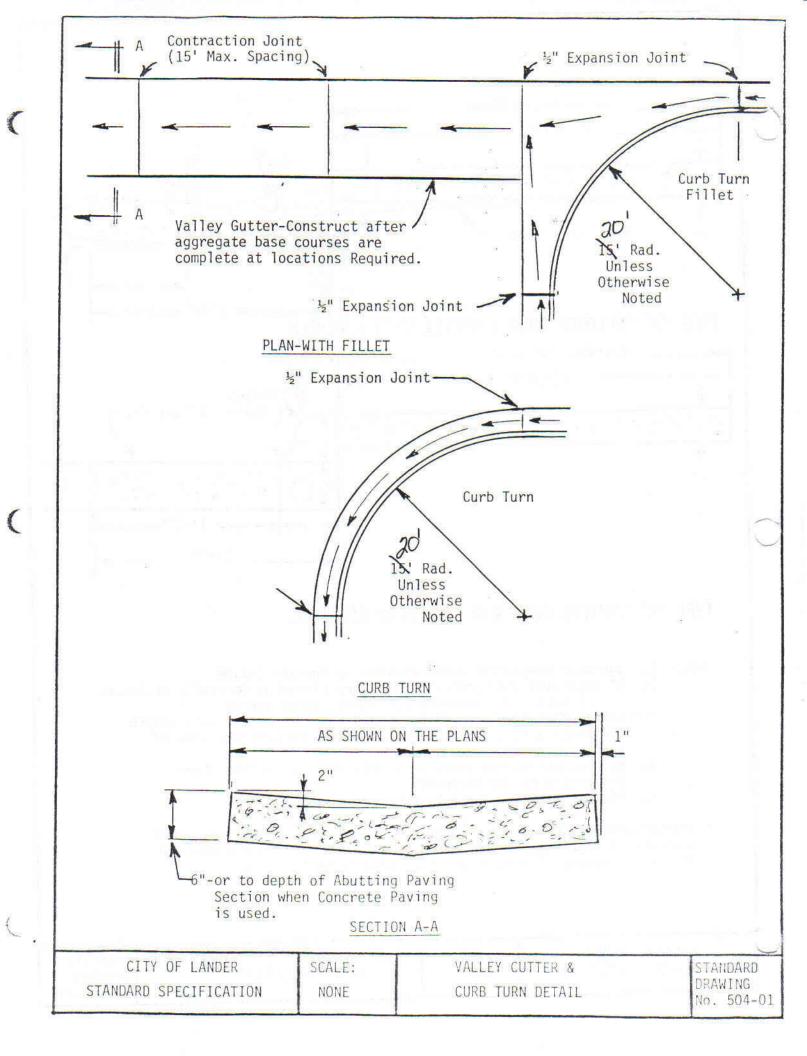
CITY OF LANDER STANDARD SPECIFICATIONS

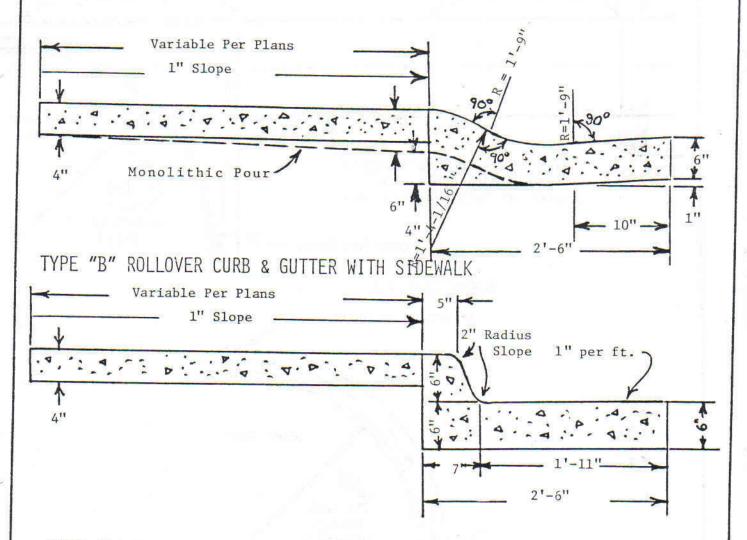
SCALE:

WHEELCHAIR RAMP (TYPE "B") STANDARD DRAWING NO.504.04









TYPE "A" TYPICAL CURB & GUTTER WITH SIDEWALK

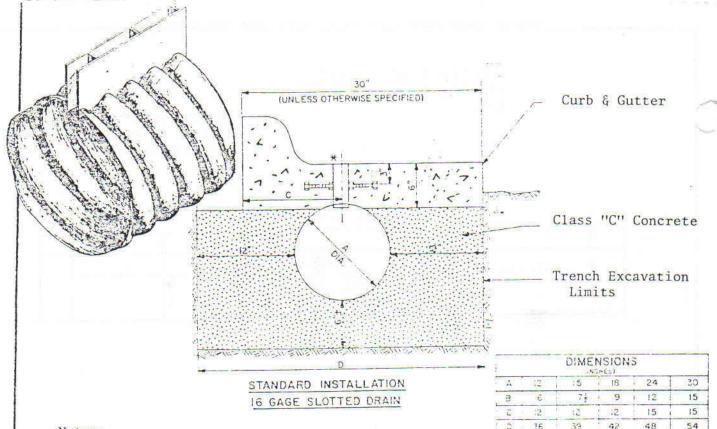
NOTE:

- 1. Subgrade Compaction shall conform to Section 601.04
- 2. ½" expansion joint material shall be placed at immovable structures and at points of curvature for short radius curves
- 3.* Contraction joints shall be placed at every 10' of curb length and shall have a minimum depth of 3/4" and minimum width of 1/8".
- No curb and gutter shall be placed with out a final form inspection by the Engineer.
- 5. Class A concrete shall be used.
- * Contraction joints shall be constructed by sawing or scoring. When scoring, a tool shall be used which will leave corners rounded and destroy aggregate interlock for specified minimum depth.

CITY OF LANDER STANDARD SPECIFICATIONS SCALE: None

COMBINED CURB, CUTTER AND SIDEWALK SECTION

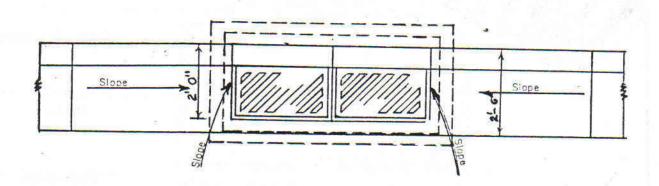
Standard Drawing No.503-01

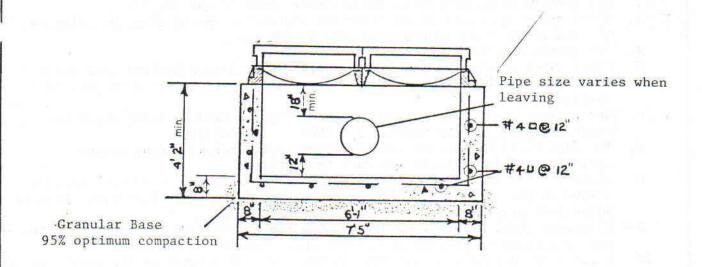


- 1. A typical length of slotted drain is twenty (20) feet. Installations should be in multiples of ten (10) feet unless situations dictate otherwise.
- 2. All slotted drain materials and hardware shall be galvanized.
- 3. Metal end plugs shall be provided for the closed end of each installation. The end plugs shall be the same gage as the pipe.
- 4. All joints and end plugs shall be watertight.
- 5. Close riveted soldered annular or continuously welded helical pipe shall be used and shall be watertight. All pipe shall have annular corrugations or rerolled ends.
- 6. Two gaskets shall be required for each coupling band or joint shall be rendered watertight by methods approved by the Engineer.
- 7. The slot shall be covered with an acceptable material during paving operation and installation of curb and gutter.
- 8. Anchors shall be 1/2" Ø x 3" galvanized bolts and nuts. The nuts shall be welded in the shop to the slot on two (2) foot centers. The bolts shall be added just prior to installation to prevent damage.
- 9.* Clearance shall be provided between the top of the slot and the top of the gutter section to prevent any direct wheel loading on the slot.
- 10. A 12" x 18" grated inlet, clean out box shall be located on the lower end of the slotted drain, R-1878-B1 Neenah frame and grate or equivalent to be installed.

Note: Curb radius point should fall at edge of basin.

 Neenah R-3296-A curb inlet, frame, grate, curb box (or equivalent) grate DR



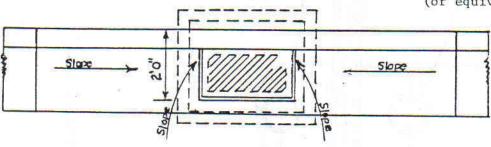


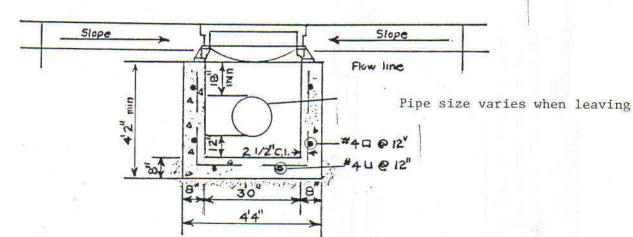
DOUBLE INLET

CITY	OF LANDER
STANDARD	SPECIFICATIONS

Note: Curb radius point should fall at edge of basin.

> Neenah R-3246-B curb inlet frame, grate, curb box (or equivalent) grate DR





Granular Base 95% optimum compaction

Note: 48" Class 3 pipe may be used with 6" top slab for catch basin.

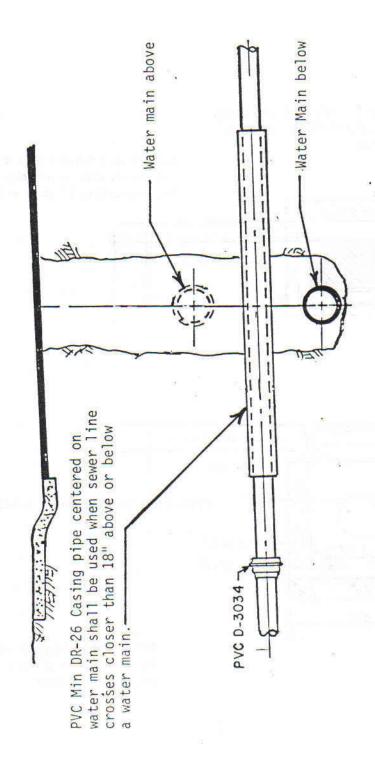
SINGLE INLET

CITY OF LANDER STANDARD SPECIFICATIONS

SCALE: NONE

STORM DRAIN SINGLE INLET

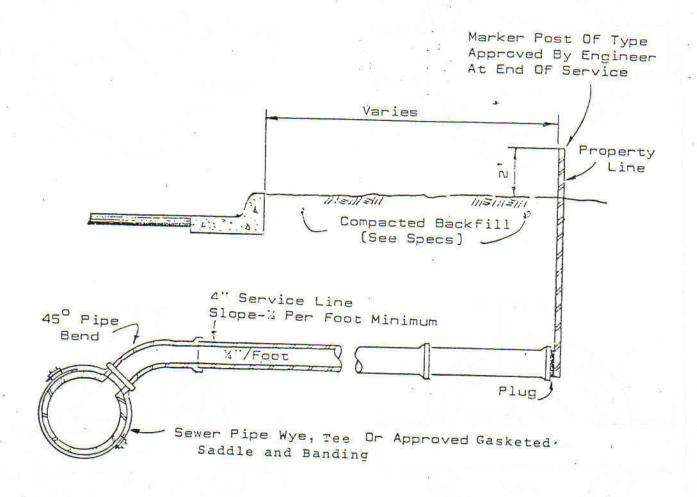
STANDARD DRAWING NO.403-01



NOTES:

- The casing pipe shall hve a minimum diameter of 1.25 times 0.D. of the carrier pipe.
- 2. Sewer crossings larger than 10 inches shall be designed on an individual basis.

CITY OF LANDER STANDARD SPECIFICATION	SCALE NONE	SEPARATION OF SEWER AND WATER MAIN CROSSINGS	STANDARD DRAWING NO. 402-02
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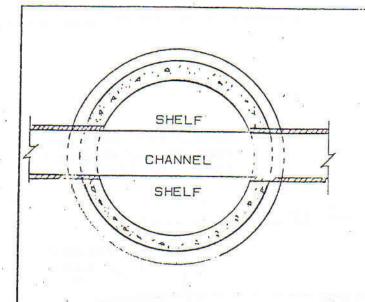


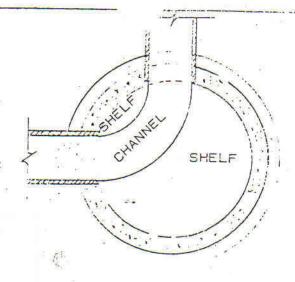
- NOTE: 1) Sewer service pipe shall be either PVC ASTM D-3034 (SDR-35).
 - Sewer service lines shall be installed where shown on the drawings or as specified.
 - 3) Bedding shall be either a well graded sand, sand gravel mixture or gravel to a point 12 inches above the top of the pipe.

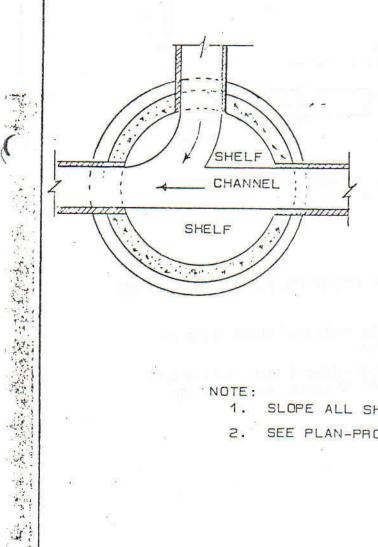
CITY OF LANDER STANDARD SPECIFICATIONS

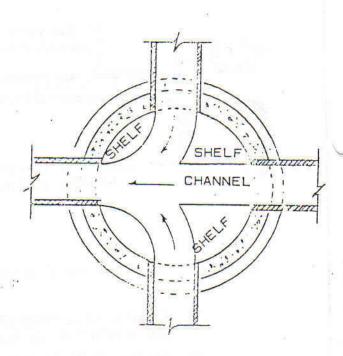
Scale: None

SANITARY SEWER SERVICE LINE Standard Orawing No.402-01









NOTE:

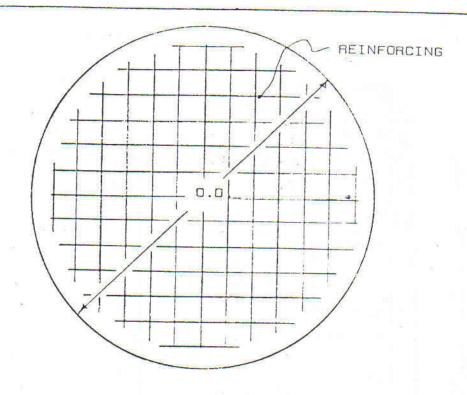
- SLOPE ALL SHELVES TO CHANNEL AT 1" PER FCOT.
- SEE PLAN-PROFILE SHEETS FOR SLOPE OF CHANNEL.

CITY OF LANDER STANDARD SPECIFICATIONS

SCALE: NONE

TYPICAL MANHOLE CHANNEL DETAILS

Standard Drawing No.401-04

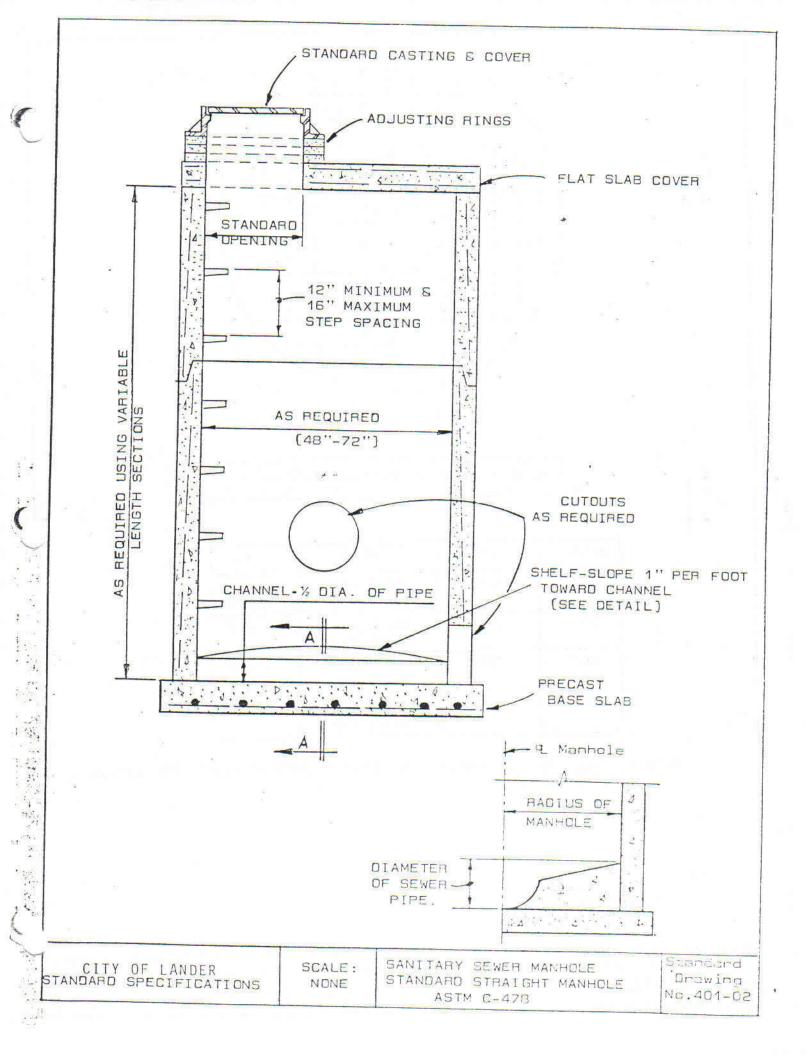


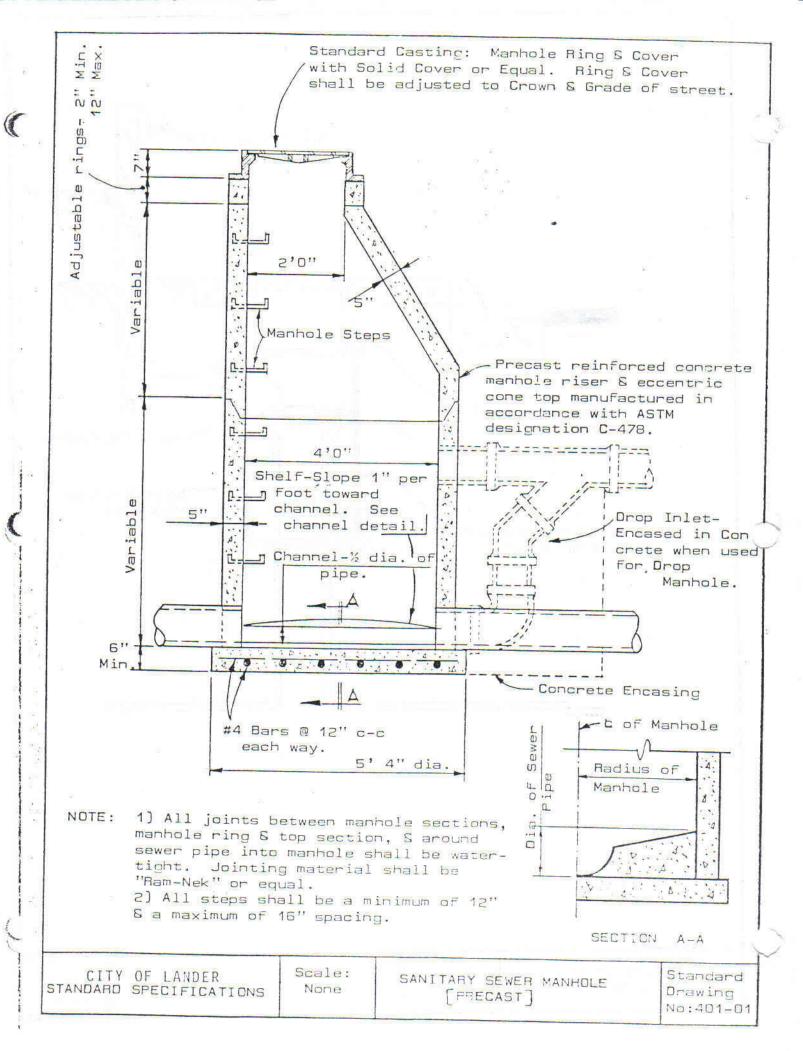


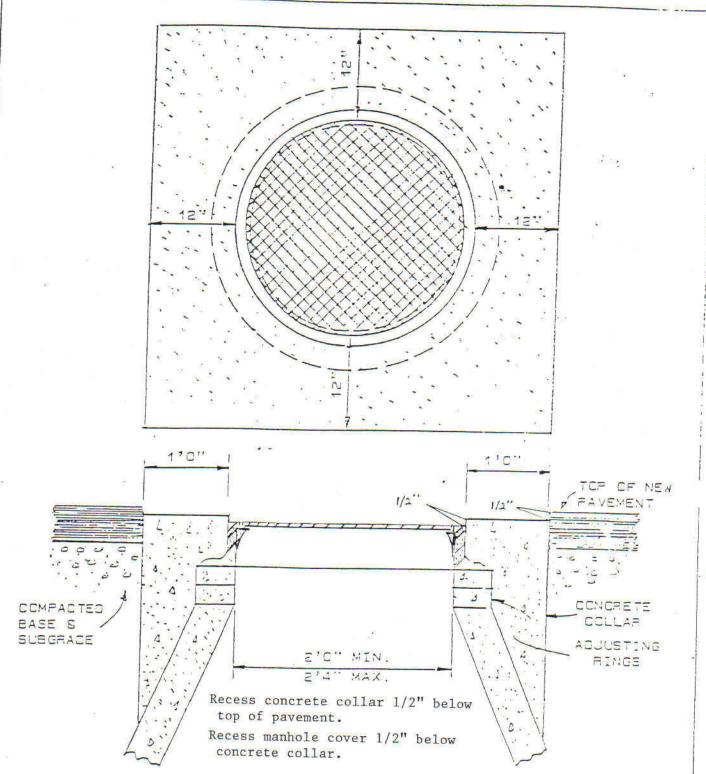
SIZE	0.0.	REIN.	WT.
48"	54''	#4 @ 8" Each Way	1675#
54"	71"	#4 @ 8" Each Way	4125#
60''	78''	#4 @ 8" Each Way	4975#
72"	92"	#4 @ 6" Each Way	6925#

NOTE: BASES MAY BE PRECAST AS SQUARE UNIT WITH WRITTEN APPROVAL OF ENGINEER.

ST	CITY OF LANDER ANDARD SPECIFICATIONS	SCALE: NONE	PRECAST MANHOLE BASES 48", 54", 60", 72"	Standard Drawing No.401-03
				1.0. 10 1-00







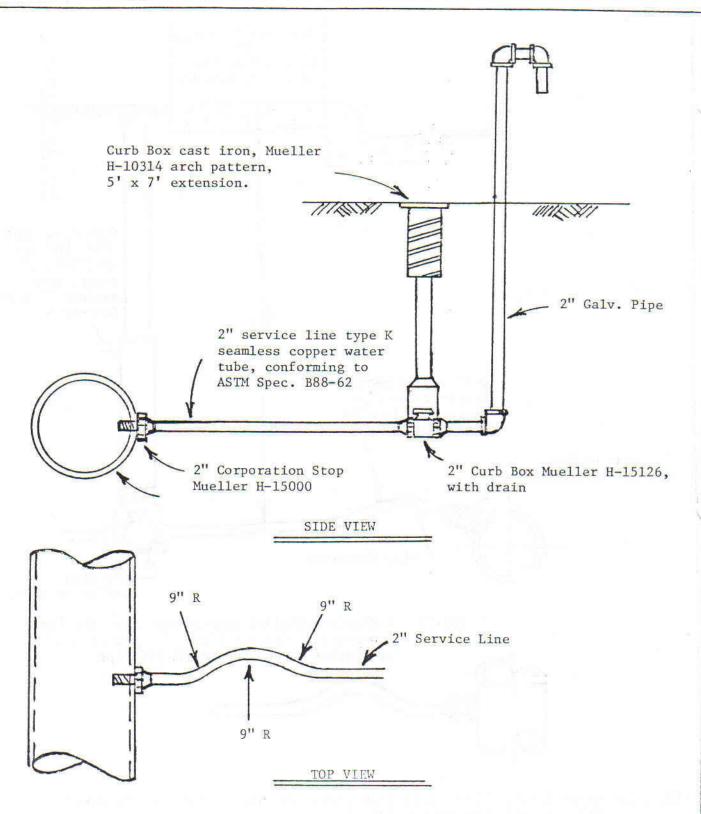
NOTE: Adjust manholes upward with brick & month or asjusting rings under frame. Adjust manhole downward by removing a portion of the manhole riser and repuilding to proper diameter. Slope manhole ring as required to mater longitudinal & transverse grade on street. Final markele adjustment will be race often paying and before seal coating. No payment shall be made for adjustment of new manholes to final grade.

CITY OF LANDER STANDARD SPECIFICATIONS

Scale: None

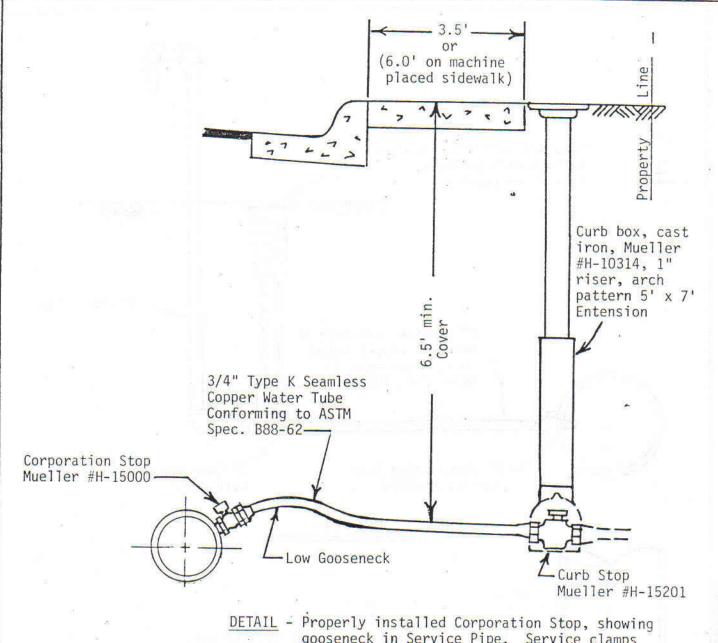
MANHOLE ADJUSTMENT DETAIL

Standard Grawing No.305-01

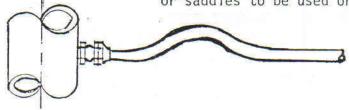


- NOTE: 1. PVC mains and DI mains 8" or less in diameter --- use corporation saddle.
 - 2. DI mains 10" or greater --- may be tapped directly.

CITY OF LANDER SCALE STANDARD SPECIFICATIONS NONE BLOWOFF VALVE STANDARD DRAWING NO. 303.02

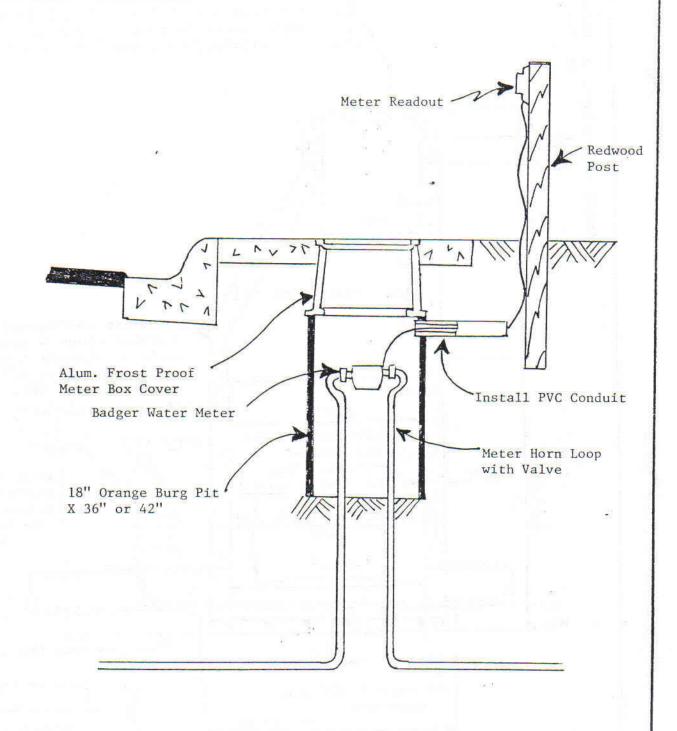


gooseneck in Service Pipe. Service clamps or saddles to be used on all PVC Pipe.



- NOTE: 1) Water Service lines shall have a minimum cover of 6.5 feet measured from the existing ground surface.
 - Water service lines shall be installed where shown on the drawings or as specified.
 - 3) Bedding shall be $1\frac{1}{2}$ " dia. maximum within 12" of service pipe.

CITY OF LANDER SCALE: STANDARD SPECIFICATION NONE	WATER SERVICE LINE	STANDARD DRAWING No. 303-01
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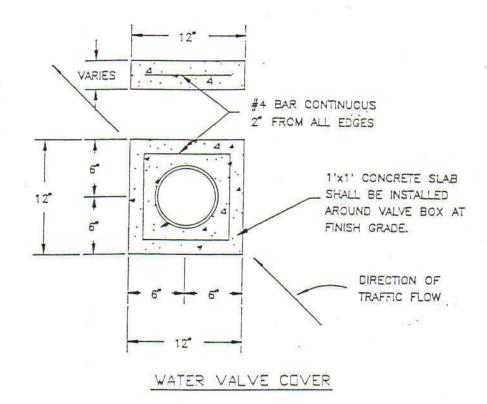


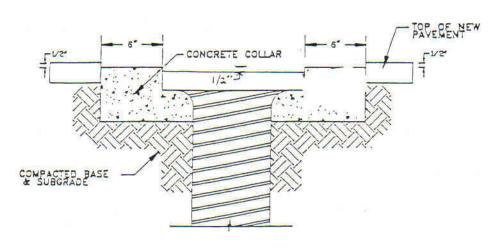
CITY OF LANDER STANDARD SPECIFICATIONS

SCALE: NONE

WATER METER VAULT

Standard Drawing

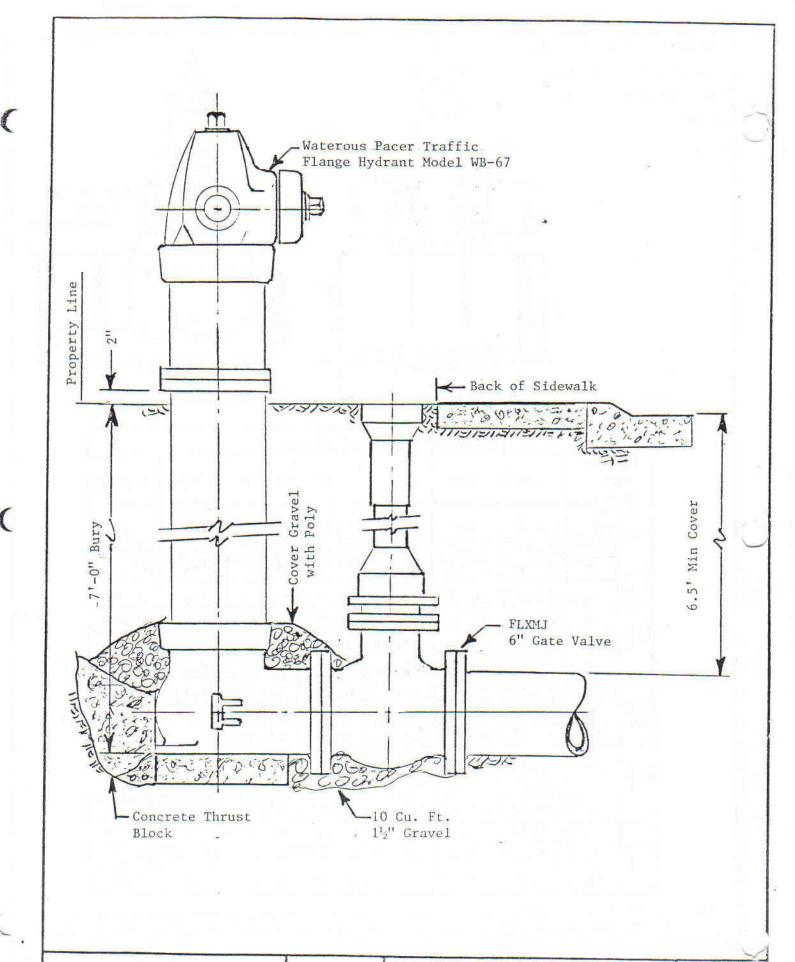




WATER VALVE ADJUSTMENT

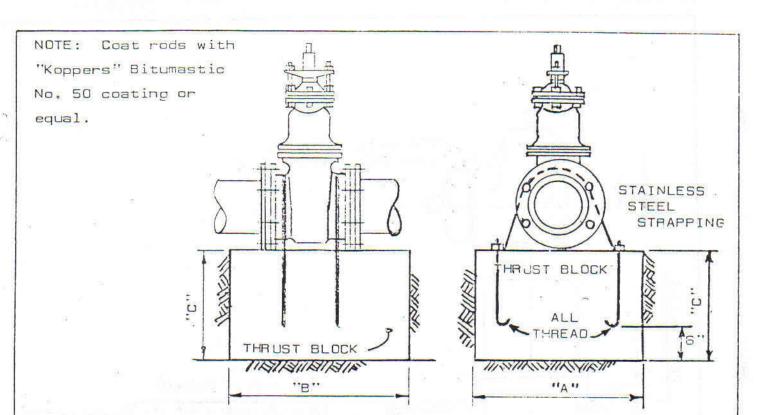
- NOTE: 1) ADJUST WATER VALVES UPWARD OR DOWNWARD AS REQUIRED. FINAL ADJUSTMENT SHALL BE MADE AFTER PAVING AND BEFORE SEAL COATING. NO PAYMENT SHALL BE MADE FOR ADJUSTMENT OF NEW VALVES TO FINAL GRADE.
 - 2) * WHEN CONCRETE COLLAR IS POURED ABUTTING CONCRETE PAVEMENT, DEPTH SHOULD EQUAL THAT OF PAVEMENT SECTION.
 - 3) Recess concrete collar 1/2" below top of pavement Recess water valve cover 1/2" below concrete collar

1993			STANDARD
WYDMING PUBLIC WORKS	NOT TO	WATER VALVE ADJUSTMENT DETAIL	DRAWING
STANDARD SPECIFICATIONS	SCALE	THE PROPERTY OF THE PROPERTY O	No. 02645-02



CITY OF LANDER STANDARD SPECIFICATIONS SCALE: NONE

FIRE HYDRANT SETTING DETAIL-VALVE BEHIND CURB OR SIDEWALK STANDARD DRAWING No.302-02



		T	HRUST E	SLOCK DI	MENSION	IS		
ANO PO SIZ	The state of the s	3/4"	3/4".	3/4"	1''	1 1/8"	1 1/4"	1 3/8"
25	_VE IZE	6'8 8"	10"	12"	14''	15"	18"	24"
	A	2'-0"	2'-0"	2'-3"	2'-3"	3'-0"	3'-8"	4'-4"
00	"B"	2'-0"	2'-0''	2'-0"	2'-0"	3'-0"	3'-0"	4'-0"
10 PS	"C"	2'-0"	2'-0"	2'-9"	2'-4"	2'-11"	3'-0"	4'-0"
0 1	''A''	2'-0"	2'-5"	3'-0"	3'-5"	4'-4"	5'-5"	6'-5"
15 PS	''B''	2'-0"	2'-6"	3'-0"	3'-0"	3'-0"	3'-0"	4'-0"
	"C"	2'-0"	2'-0"	2'-8"	3'-0"	3'-0"	3'-0"	4'-0"
0 4	''A''	2'-0"	2'-9"	3'-5"	4'-5"	4'-1"	5'-1"	6'-6"
200 PS1	"B"	2'-0"	2'-6"	3'-0"	3'-0"	4'-0"	4'-0"	5'-0"
	"C"	2'-0"	2'-6"	3'-0"	3'-0"	4'-0"	4'-0"	5'-0"
0 1	''A''	2'-0"	3'-0"	.4'-3"	4'-0"	5'-1"	6'-4"	6'-5"
25 PS	''B''	2'-0"	3'-0"	3'-0"	4'-0"	4'-0"	4'-0"	6'-0"
	"C"	2'-0"	3'-0"	3'-0"	4'-0"	4'-0"	4'-0"	6'-0"
	"'A"	2'-0"	3'-7"	5'-1"	4'-9"	6'-1"	5'-9"	71-8"
300 PSI	"B"	2'-0"	3'-0"	3'-0"	4'-0"	4'-0"	5'-0"	6'-0"
	c	2'-7"	3'-0"	3'-0"	4'-0"	4'-0"	5'-0"	6'-0"

NOTE: 1) Pressures shown above are maximum working pressure in system.

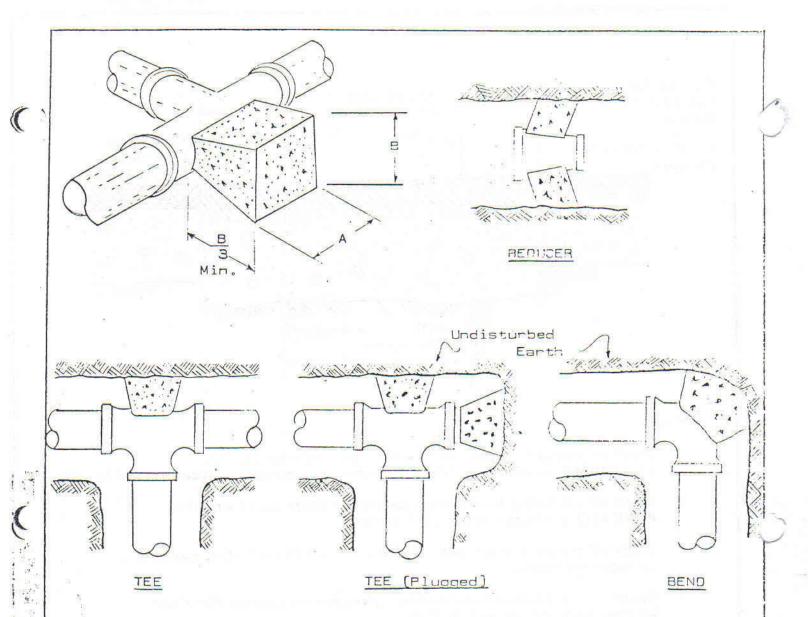
2) To be installed as called for and at locations as shown on plans.

CITY OF LANDER STANDARD SPECIFICATIONS

Scale: None.

THRUST BLOCKING FOR WATER MAIN VALVES

Standard Drawing No.302-01



		DIM	ENSION F	OR THRUS	T BLOCKIN	NG		
FIT- TING	TEES	& PLUGS	900	BEND	45° BEN	ND & WYES	REDUCEF 22% E	RS, 11% E BENDS
SIZES	Α	В	А	В	А	В	A	В
4"	1'-7"	1'-2"	1'-9"	1'-="	1'-8"	□'-10"	1'-7"	0'-6"
6''	2'-0"	1'-11"	2'-5"	2'-2"	1'-10"	1'-7"	1'-9"	0'-10"
8"	2'-8"	2'-6"	3'-2"	3'-0"	2'-5"	2'-1"	1'-9"	1'-6"
10"	3'-4"	3'-3"	4'-0"	3'-10"	3'-0"	5,-8	2'-2"	1'-11"
12"	4'-0"	3'-10"	4'-8"	4'-8"	3,-8	3'-3"	2'-7"	2'-3"
14"	5'-5"	3'-10"	5'-6"	4'-11"	4'-9"	3'-5"	3'-5"	2'-5"

i.

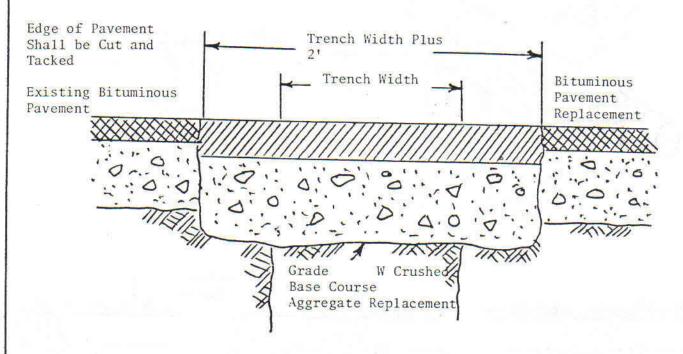
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NOTE: This table is based on 150 PSI Main Pressure 2000 PSF Soil Bearing Pressure

Wrap all fittings with polyethylene.

CITY OF LANDER STANDARD SPECIFICATIONS	Scale: None	THRUST BLOCKING FCH WATER MAIN FITTINGS	Standard Drawing ND:301-01
-------------------------------------------	----------------	--------------------------------------------	----------------------------------



- Depth of pavement replacement shall equal original depth or a minimum depth of 3 inches, whichever is greater, placed in two layers.
- 2. Depth of untreated base course aggregate shall equal original depth with a minimum depth of 6 inches.
- Edges of pavement and concrete shall be tacked with SS-1 emulsion or approved equal.
- 4. Grade W crushed base course aggregate compaction shall not be less than 95% or AASHTO T-99.
- Bituminous pavement shall be compacted to not less than 95% of maximum lab. density.
- 6. When hot mix pavement is not available, cold mix pavement may be used, but shall have a minimum depth of four inches (4"), placed in two equal layers.
- 7. Temporary cold mix patches shall be two inches (2") thick.