

Line Types

Proposed Watermain

Existing Watermain

Existing Sewermain

Existing Storm Sewer

Existing Service Line

Proposed Service Line

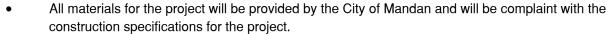
Property Lines

Details

Existing Water Valve	
Proposed Water Valve	
Sanitary Sewer Manhole	
Existing Fire Hydrant	•
Proposed Fire Hydrant	•
Hymax Connection	
Reducer	
Tee	
45° Elbow	_
Curb Stop	
House Numbers	XXX
Existing Pipe Sizes	XXX

Construction Notes

THE CITY OF MANDAN SHALL BE RESPONSIBLE FOR:



- Line and grade will be established by the City of Mandan as indicated on the standard drawings and/or as directed by the city engineer.
- The removal and replacement of asphalt pavement and concrete will be performed by the City of Mandan. The City of Mandan will remove a maximum of 11" of asphalt to facilitate the installation of the water main.
- The City of Mandan will provide pipe bedding material as part of the project.
- The City of Mandan is responsible for first compaction test only.
- Size, number and location of water services will be determined and verified in the field by the City of Mandan.
- All materials delivered on site will be verified by the contractor and the City of Mandan prior to installation.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- Installation of water mains and associated parts shall be done in accordance with the City of Mandan Construction Specifications for the water main installation. (Section 900) All water mains shall be buried to an 8" minimum depth to the top of pipe. All installed water curb stops and water valve boxes shall be adjusted either up or down to the level of the surrounding ground and future finished grade.
- Backfilling of the water main trench for compaction shall be done to the specifications outlined in Section 900 of the City of Mandan Construction Specifications. All re-tests are the contractor's responsibility.
- The contractor will be responsible for locating and preservation of all underground utilities whether they are indicated on the plans or not.
- The contractor shall be responsible to preserve all existing and non-removed curb, gutter, asphalt, sidewalk, lawn, landscaping, and any only existing private or public features of the work area. Any damage or significant alteration as determined by the City of Mandan will be the responsibility of the contractor to replace or retore at his/hers own expense.
- The contractor will have the option to keep the existing water main in service while installing the new main or to hose all affected houses. All hose fed houses shall be done with food safe or food grade approved hosing. Temporary water shut downs will need a 24 hour notice to homeowners and be approved by the City of Mandan.
- Traffic control must be provided by the contractor. The contractor will be responsible to provide all signing necessary to complete this project as spelled out in the manual on Uniform Traffic Control Devices and the Work Area Traffic Control Handbook as distributed by the NDDOT.
- A cost for additional services, installing curb stop and box and installing curb box bust be provided on the bid sheet.
- In the event of the discovery of any lead service lines, the service line must be replaced to the curb stop for the cost indicated for additional services and the owner made aware of the existence of the lead line.
- The contractor will be responsible for the providing the material for blocking that is required by the specifications during the installation of the water main or appurtenances.
- The contractor will be responsible and held accountable for all materials on site. All materials delivered on site will be verified by the contractor and the City of Mandan prior to installation.
- The contractor will be responsible for the protection of all storm water inlets within work area. Protection must be in accordance with BMP's for storm water protection.

City of Mandan City of Mandan City of Mandan

Sewer Replacement Notes Construction and End Water **დ** egend ast

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RWG	
File	Name

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DISCLAIMER: All property lines shown are for contractors reference and not to be taken as exact locations.

