

NOTE SHEET

1. **GENERAL:** The Engineer will attend to the removal of existing fences to the highway right-of-way line and to the relocation or adjustment of utility facilities as shown on the plans. All privately owned light poles, guard posts, signs, etc. within the right-of-way limits shall be removed by the owners.
2. **UTILITIES:** Separate plans, if any, showing the utility relocation or adjustment work to be performed by the utility companies to accommodate highway construction will be made available to the Contractor upon request to the Engineer.
3. **SHRINKAGE:** 35% additional volume in yardage computed by the end area method is allowed for shrinkage in earth embankment.
4. **CLASS OF CONCRETE:** The class of concrete used in the curb and gutter shall be Class AE. The Contractor shall have the option of using aggregate Size No. 3, 4 or 5 as defined in Section 806-2 of the Standard Specifications.
5. **QUANTITIES:** Quantity totals have been rounded off to the nearest whole unit for bidding purposes.
6. Diesel fuel shall not be used to lubricate the dump body of any truck hauling bituminous mixed material.
7. **COMPACTION & DENSITY CONTROL:** The Aggregate Base Course and subgrade shall be compacted in accordance with Section 203.2.3.3 of the Std. Spec's.
8. **EXCESS EXCAVATION:** Excavation in excess of that used for embankment shall be placed within right-of-way as directed by the Engineer for use in filling existing structure and future use on Project F-1-010( )917 (Mandan Strip) Approximately 25779 C. Y. to be stock-piled.
9. **AVERAGE HAUL:** No average haul is computed for this project.
10. **REMOVAL OF CONCRETE PAVEMENT:** The existing concrete pavement shall be removed at the locations shown on the Plans, or as directed by the Engineer. The Contractor shall use extreme care to avoid damaging the abutting concrete that is to remain in place. Any damage done thereto shall be repaired by the Contractor at his own expense. The concrete removed shall be disposed of by the Contractor at a location obtained by him (and approved by the Engineer) off the highway right-of-way. Cost of this disposal and obtaining of the disposal area, shall be included in the price bid for "Removal of Concrete Pavement".
11. **CONCRETE PAVEMENT:** Price bid for 9" Reinforced Concrete shall include cement and welded wire fabric reinforcement.
12. **CURING:** The Concrete Pavement shall be cured in accordance with sub-section 550-4.13.2.1, Water Soluble Liquid Membrane Cure, of the Standard Specifications. Materials shall meet the requirements of sub-section 880-5 of the Standard Specifications. In lieu of the Water Soluble Liquid Membrane Cure, paper or plastic blanket cure may be used as described in Section 550-4.13.3 of the Standard Specifications, followed by a linseed oil treatment as specified in Section 750 of the Standard Specifications. There shall be no extra compensation allowed for this alternate cure method.
13. **MISCELLANEOUS STEEL:** The cost for all steel used for tie bars shall be included in the price bid for P. C. C. Pavement.
14. Dowel bars installed at expansion joints in the curb and gutter will not be paid for separately, but shall be included in the price bid for "Curb and Gutter - Type I".
15. **JOINTS FOR SEWER PIPE:** When bell and spigot type is used, the joints shall be sealed with oakum and mortar or by rubber gaskets of a type approved by the Engineer. When tongue and groove type is used, the joints shall be sealed with rubber gaskets. Not a separate pay item, cost to be included in the price bid for RCP sewer.
16. **STORM SEWER:** At Sta. 0+72 Lt. the new storm sewer is to be installed into an existing manhole. The cost of cutting into this manhole and the necessary grouting shall be included in price bid for other items. The manhole at Sta. 36+26+ Rt. (I-94) and the inlet at Sta. 0+58.4 Rt. are to be installed over existing storm sewer. The cost of cutting or removing and replacing the sewer to facilitate the installation of the manhole shall be included in price bid for "48" Manhole". The cost of cutting or removing and replacing the sewer to facilitate the installation of the inlet shall be included in price bid for "Inlet". Adjust location of inlet and manhole to fit existing sewer.
17. **UNDERDRAIN SYSTEM:** 7 Ft. of P. V. C. pipe for each cleanout has been included in "6 Inch Perforated PVC Pipe" quantities for nonperforated riser sections. All materials, labor and equipment necessary for construction of cleanouts shall be included in price bid for "6 Inch Perforated PVC Pipe".
18. **PUMP STATION & EQUIPMENT:** Notes pertaining to construction and design of Pump Station shall be found on detail sheets.
19. **TEMP. BYPASS:** Approximately 122 ton of Hot Bituminous Pavement and 9 ton of 120-150 Asphalt Cement are required for temp. bypass. These items are not separate pay items, but shall be included in price bid for "Temporary Bypass".
20. Any tack required on project is to be included in price bid for 120-150 Asphalt Cement.
21. **PIPE INLET 37+00 (U.S. 10):** Shape surrounding area to drain into pipe.