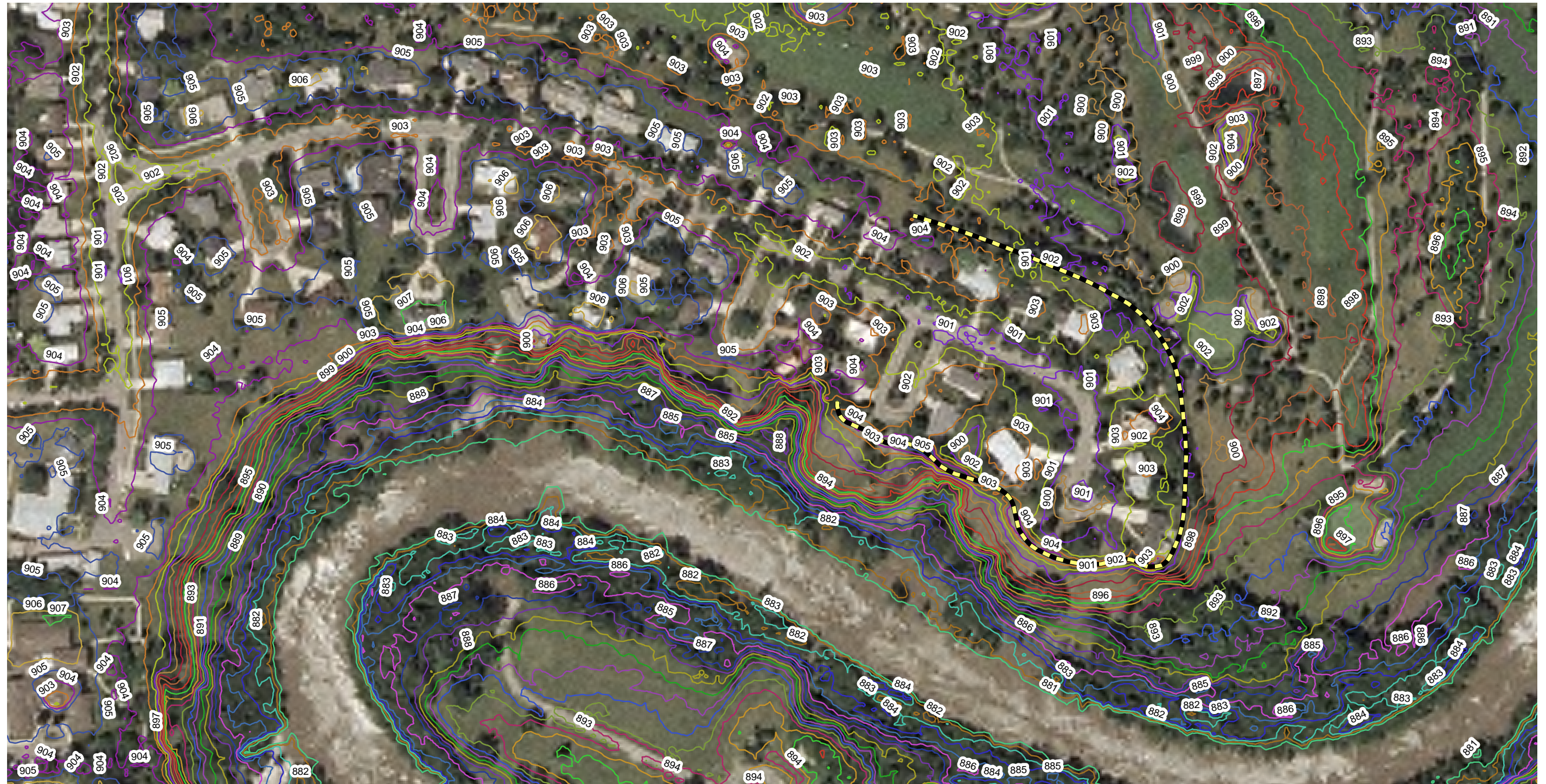


Attachment H-11: Southwood Drive Levee Information





St. Paul District
 GEOLOGY
 GEOTECHNICAL
US Army Corps
of Engineers®

FMMFS_P2_geotech_2009-04.mxd
 Printed 20 NOV 09

FMMFS: Credit to Existing Levees Southwood Drive, 4980 (Fargo)

0 100 200 400 600
 Feet





ENGINEERING

DIKE CONSTRUCTION & INCIDENTALS			
IMPROVEMENT DISTRICT 4980			
DRAWN BY: BWB	SCALE: 1" = 30'		
CHECKED BY: DWJ	DATE: OCTOBER, 2007		
APPROVED BY: DWJ	SHEET 1 OF 2		

Attachment 11-002
Credit to Existing Levels

SPECIAL INSTRUCTIONS FOR BIDDERS

DIKE CONSTRUCTION & INCIDENTALS

IMPROVEMENT DISTRICT NO. 4980

1. GENERAL

The City of Fargo Standard Specifications for Construction of Public Utilities (revised 3–2007) along with these Special Instructions shall govern the construction of the project.

2. CLEAR AND GRUB

This bid item provides for removal of small trees and brush along the dike location and the access route to the site. The bid item also includes trimming of any tree branches necessary for the earth dike installation. Specific small tree/bush removals are as follows:

- 3 small trees/bushes at approx stationing 0+00.
- 3 small trees/ bushes at approx station 6+50.
- All or any bushes and small trees along the access route behind 503 Southwood Drive.

All material and debris shall become the property of the contractor and removed from the site.

3. REMOVE TREE

This bid item provides for removal of the larger trees identified on the plan sheet. Trees shall be removed to at least 6” below ground level and shall become the property of the contractor and removed from the site. Specifically these trees are as follows:

- 1 tree at approx stationing 0+50.
- 1 tree at approx stationing 2+50.
- 3 trees at approx stationing 4+75.
- 3 trees at approx stationing 5+00.
- 1 tree at approx stationing 6+00.

4. RELOCATE TREE

This bid item provides for relocation of 3 smaller trees identified on the plan sheet (approx stationing 2+00). The trees shall be relocated to locations in the immediate area as designated by the engineer. Contractor shall use care in removal of these trees as they are close to the Magellan petroleum pipelines. Contractor shall notify Magellan Pipeline of this work prior to removal of these trees (Paul Klabunde – Magellan Pipeline 282–7134).

5. STRIP BLACK DIRT

6 inches of black dirt shall be stripped from the future dike location, temporarily stockpiled at the designated location shown on the plan sheet and a minimum of 4” of topsoil replaced on the dike following installation of the clay fill.

6. IMPORTED BLACK DIRT

This bid item is not a planned quantity but provides for additional topsoil in the event that not enough topsoil is salvaged during the stripping process. The imported topsoil will only be used when ordered by the Engineer.

7. IMPORTED FILL

The contractor shall obtain and provide clean clay fill suitable for dike construction. The material shall be clean fill, free of rocks and concrete debris and organic material. Material shall be compacted to 95% Procter density. Bid quantities are based on the actual plan cross sections to construct the basic dike (1,735 CY) with no allowance for shrinkage and an additional 300 CY are included based on input from individual property owners. Some owners have indicated they would like additional clay installed on the dike adjacent to their properties to soften the dike appearance. Payment will be based on plan quantity for the base dike and actual calculated volumes based on the final landscaping selected for these properties.

8. BLOCK RETAINING WALL

The contractor shall install a modular block retaining wall at the location(s) designated on the plans or as directed by the engineer. Retaining walls higher than 4 feet shall have a geogrid anchoring system as per the detail shown on the plans. Block shall be approximately 16–18” wide, 6–8” tall and 12–18” deep. Wall caps shall be installed and included in the bid price. Approved manufacturers are Rockwood, Versa–Lok and Keystone. Contractor shall submit sample for approval prior to installation. Payment will be based on actual square feet of block installed.

9. 8” GATE VALVE

The shutoff valves shall be resilient wedge gate valve with an epoxy coating. The valve box shall be included and extended to the surface of the dike at the locations shown.

10. 8” DRAIN PIPE

8” drain pipe shall be schedule 40 or DR 26 PVC

11. REMOVE AND REPLACE FENCE

The existing 4’ chain link fence shall be removed as shown on the plans. Existing fence posts shall be removed and the chain link fencing rolled back to allow for the dike construction. Following the dike installation, the fence posts shall be reinstalled and/or the fence shall be shortened as necessary and reinstalled on the existing fence poles.

12. ACCESS TO SITE

The route is shown on the detail sheet of the plans. Access to the site shall be off Southwood Drive, through lot 40, Southwood Addition and across the very rear of 503 Southwood Drive, and onto the Fargo Country Club. Any tree clearing and/or shrub removal necessary for this access route shall be included as part of the clear and grub bid item.

13. SEEDING WITH HYDRO–MULCH

This item provides for drill seeding followed by hydro–mulching to prevent soil erosion. Seeding shall be in accordance with Section 3100 of the City of Fargo Standard Specifications. Seed shall be Type B. It is anticipated that the seeding would be dormant seeded with no watering required. If seeding is not installed until next spring, seed would need to be watered in accordance with the Standard Specifications.

Quantities are estimated for the actual dike area and restoration of the access route (estimated to be approximately the same area as the actual dike). Payment will be based on actual field measurements. Access roads and other disturbed areas shall be tilled and leveled prior to seeding.

14. STORM WATER MANAGEMENT

Classification – The engineer has estimated that this project will result in a land disturbance or total amount of exposed erodible surface of less than 1 acre. Therefore, no NDPDES Permit is required. If the contractor feels that a disturbance of 1 acre or greater will be necessary to facilitate construction of the project, he must notify the engineer prior to commencing work, so that appropriate permit procedures may be followed (see Section 3300).

15. MAGELLAN GAS LINE

The Magellan Gas pipelines cross the construction site and is shown on the plan. Contractor shall exercise caution when excavating of crossing the pipelines. Contractor may be required to install temporary fill material over the pipelines to avoid any damage to the pipelines. Coordinate crossing with Magellan Pipelines.

16. XCEL POWER

Several power poles are currently located in the dike alignment. Xcel is evaluating options for removal of the poles and abandonment of a portion of this overhead line with underground installation of services an option. Contractor shall work with Xcel and coordinate their construction activity to ensure compaction around the poles. The poles will be removed following the dike construction under a separate agreement with Xcel.

17. COMPLETION

Dike construction shall be completed by December 15, 2007. Seeding and final cleanup shall be completed by May 15, 2008.

18. TRACKING MANAGEMENT

Streets and highways that are being used by the contractor and his forces to and from, as well as in the project site, shall be kept clean at all times for the duration of the project and at project completion. Only methods approved by the engineer shall be used to keep the streets clean.

19. FINAL INSPECTION

After the contractor has completed the installation of the public facility and any clean–up items, he shall make a written request to the engineer for a final inspection. Upon receipt of this request, the engineer will set a date and time for the final inspection. The final inspection request form is attached as part of these specifications.

