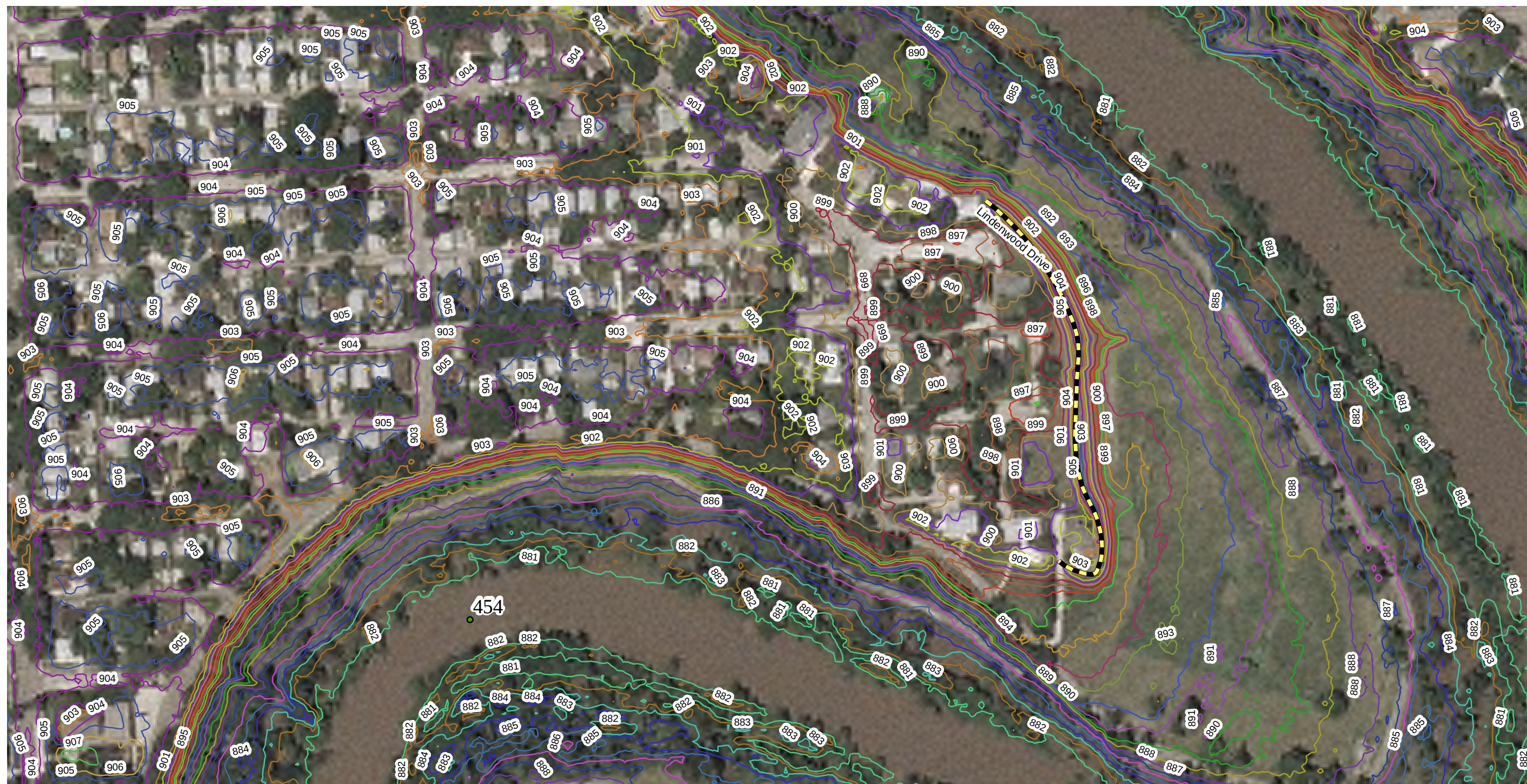


Attachment H-10: Lindenwood Drive Levee Information



FMMFS: Credit to Existing Levees Lindenwood Drive, 4908 (Fargo)

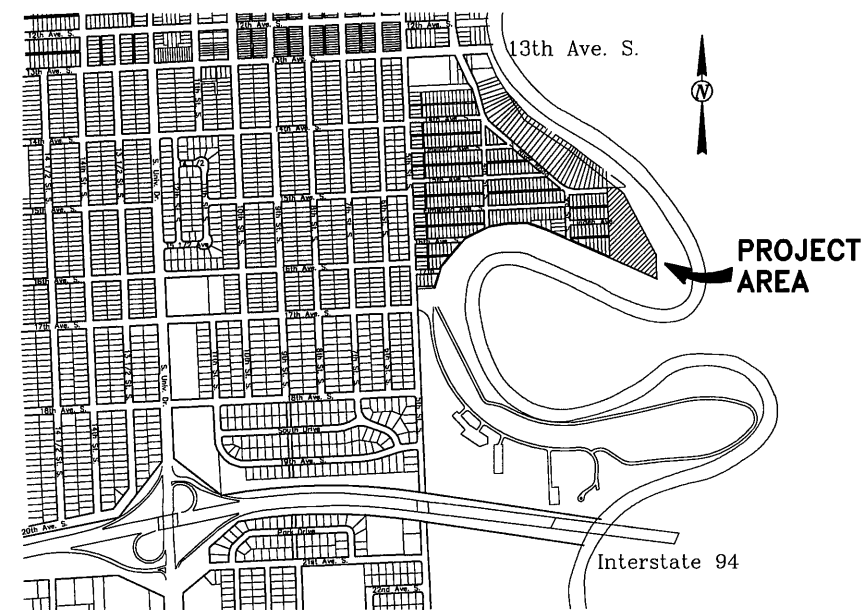


FMMFS_P2_geotech_2009-04.mxd
Printed 20 NOV 09

PLANS FOR DIKE CONSTRUCTION & INCIDENTALS

ENGINEERING DEPARTMENT

CITY OF
Fargo



FINAL PLANS

IMPROVEMENT DIST. 4908

FINAL AMOUNT: \$337,084.00

PROJECT ENGINEER: DAVID W. JOHNSON

INSPECTOR: VARIOUS

CONTRACTOR: MASTER CONSTRUCTION CO., INC.

1999

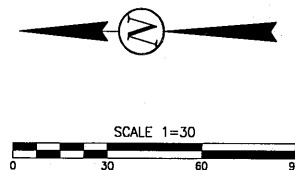
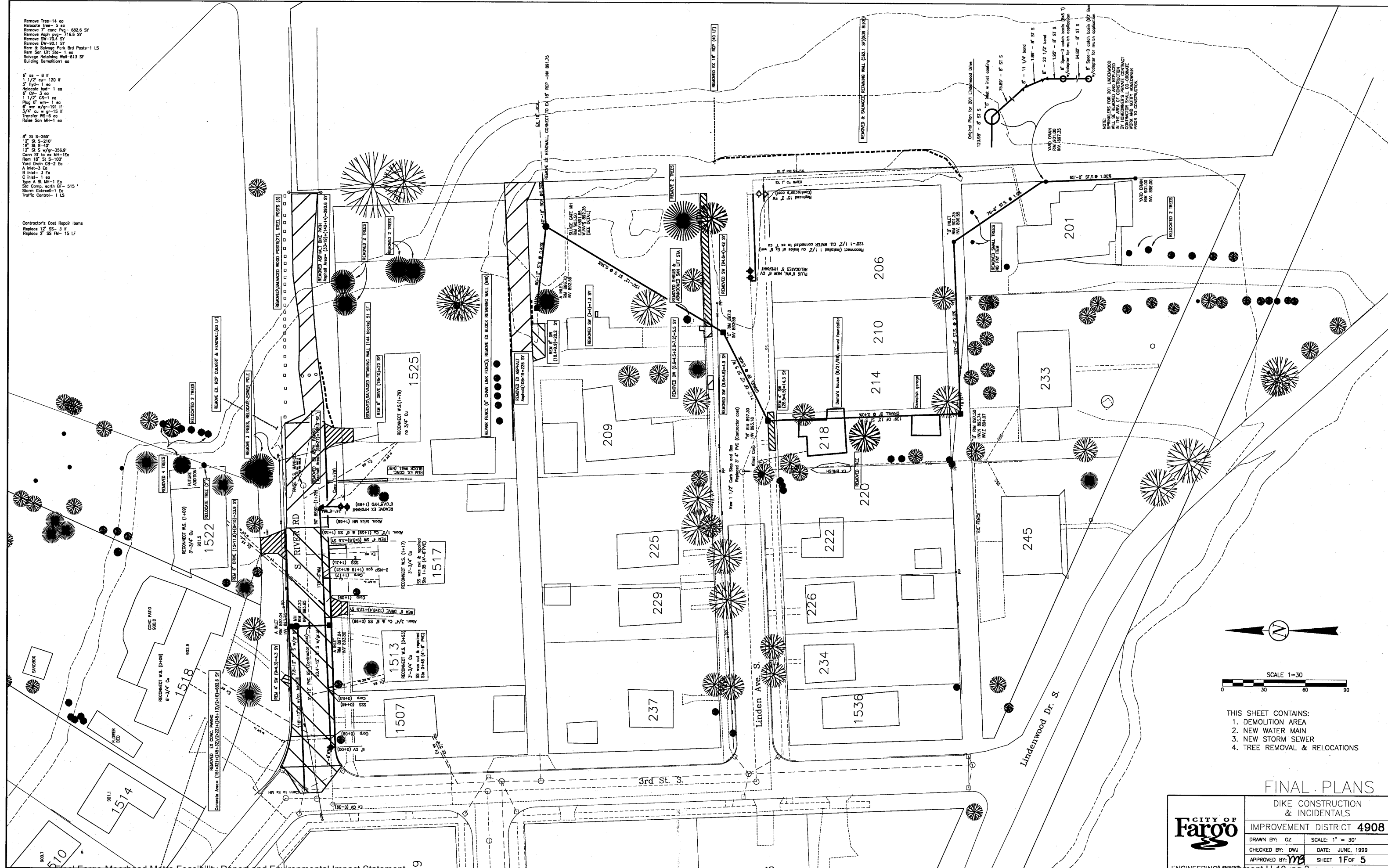
APPROVAL SIGNATURES			
City Engineer		Senior Engineer	
Signature	Date	Signature	Date
Project Engineer/Manager		I hereby certify that the attached plan, specification, or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under the laws of the State of North Dakota.	
Signature	Date		
Traffic Control Engineer			
Signature	Date		

Remove Tree-14 ea
Relocate Tree- 5 ea
Remove 7' conc Prg- 682.6 SY
Remove Asphalt Pav- 716.6 SY
Remove SW-70.4 SY
Remove DW-22.1 SY
Rem & Salvage Park Brd Posts-1 LS
Rem San Lilt Slab- 1 ea
Salvage Retaining Wall-613 SF
Building Demolition 1 ea

6" ss - 8 lf
1 1/2" cu - 120 lf
5" hyd- 1 ea
Relocate hyd- 1 ea
6" dy- 3 ea
1 1/2" CS-1 ea
Plug 6" w/m- 1 ea
6" w/m w/g-191 lf
3/4" cu w/g-15 lf
Trapezoidal W/S-5 ea
Raise San MH-1 ea

6" ST S-265'
12" ST S-210'
18" ST S-40'
12" ST S w/g-356.9'
Conn ST to ex MH-1 ea
Rem 18" ST S-100'
Yard Drain CS-2 Ea
A Inlet- 3 Ea
B Inlet- 3 Ea
C Inlet- 1 ea
Type A ST MH-1 Ea
Std Comp. earth BP- 515'
Storm Gatewell-1 Ea
Traffic Control- 1 LS

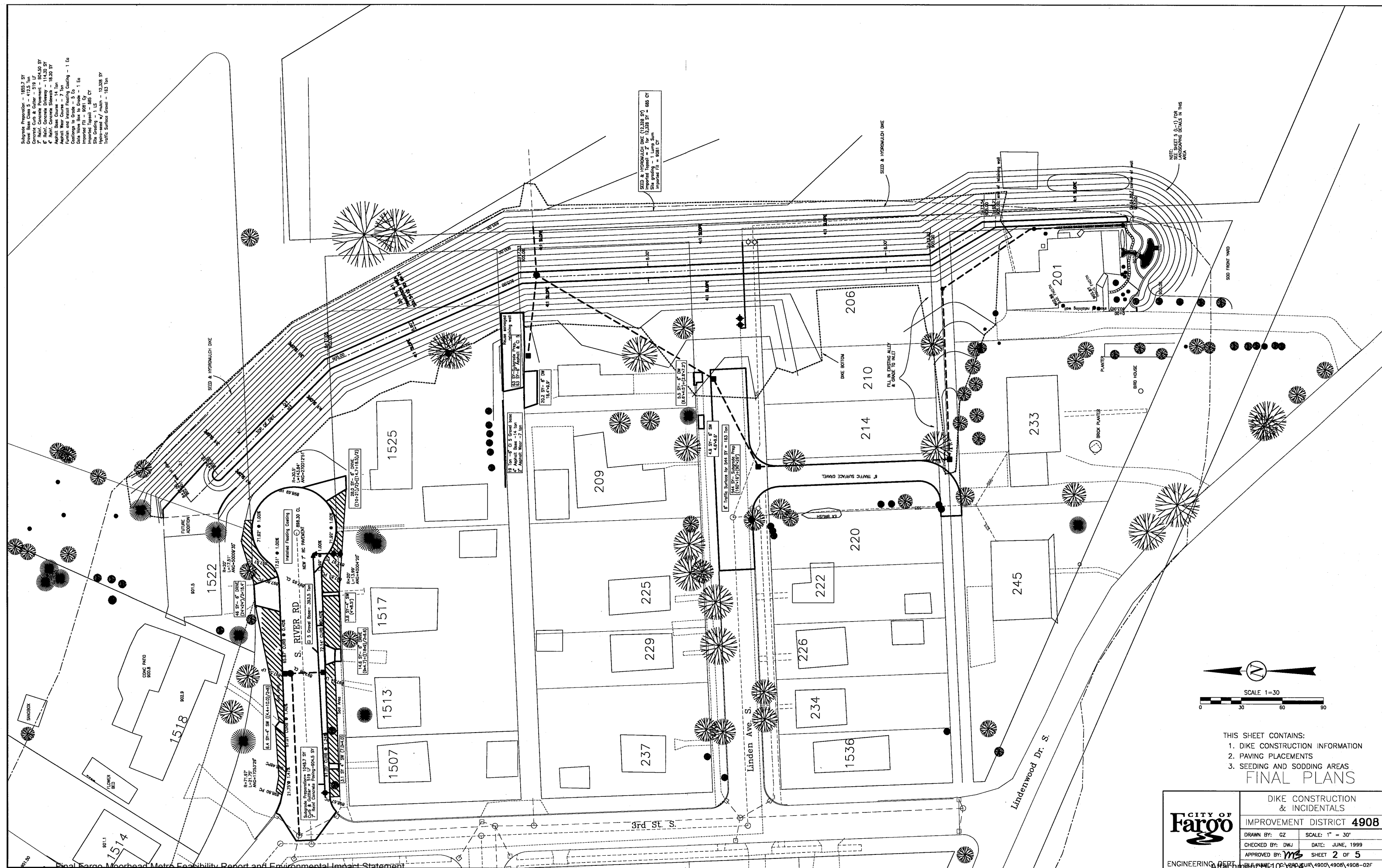
Contractor's Cost Repair Items
Replace 12" SS- 3 lf
Replace 2" SS PM- 15 LF



- THIS SHEET CONTAINS:
1. DEMOLITION AREA
 2. NEW WATER MAIN
 3. NEW STORM SEWER
 4. TREE REMOVAL & RELOCATIONS

		FINAL PLANS	
		DIKE CONSTRUCTION & INCIDENTALS	
IMPROVEMENT DISTRICT 4908		DRAWN BY: GZ	
CHECKED BY: DWJ		SCALE: 1" = 30'	
APPROVED BY:		DATE: JUNE, 1999	
SHEET 1 OF 5		CREDIT TO EXISTING LEVEES	

Subgrade Preparation	- 1655.7 SY
Gravel Base Course	5 - 412.5 Ton
Concrete Curb & Gutter	- 519 LF
7" Reinfr. Concrete Pavement	- 904.30 SY
6" Reinfr. Concrete Driveway	- 114.30 SY
4" Reinfr. Concrete Slab	- 16.20 SY
Asphalt Base Course	7 - 7 Ton
Function and Install Finishing Coating	- 1 Ea
Coatings to Grade	- 5 Co
Gate Valve Box to Grade	- 1 Ea
Imported Fill	- D081 DZ
Imported Topsoil	- 885 CY
Site Grading	- 1 LS
Hydro-seed w/ mulch	- 12.328 SY
Traffic Surface Gravel	- 16.3 Ton

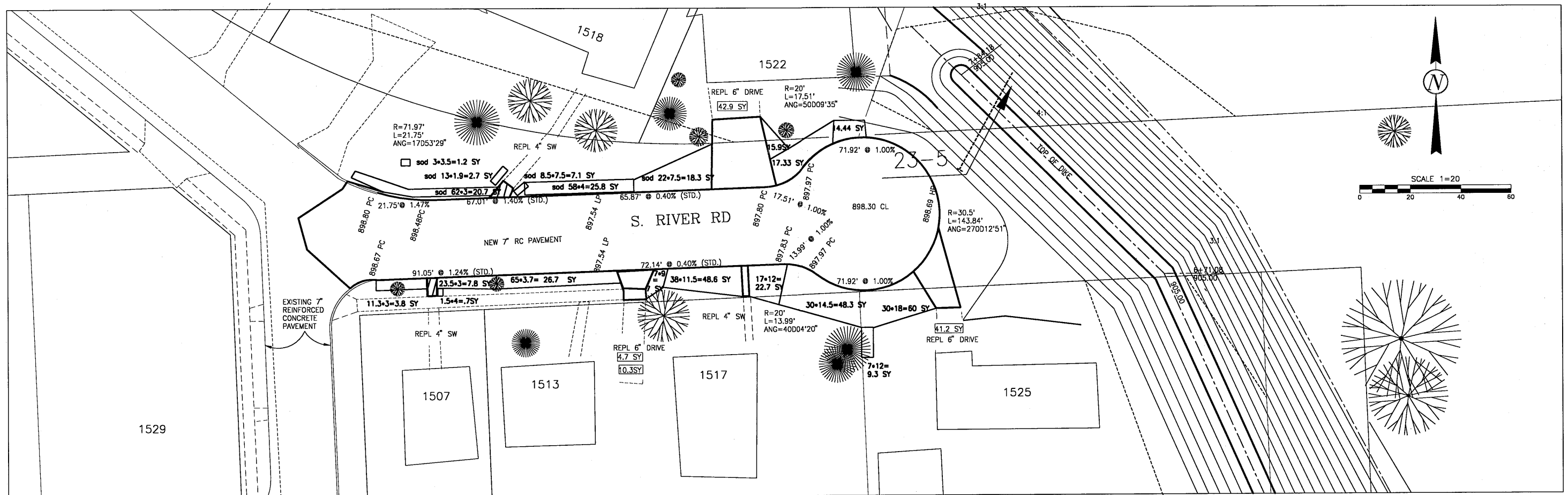


THIS SHEET CONTAINS:

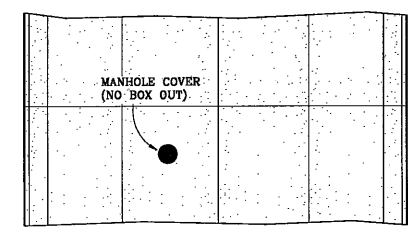
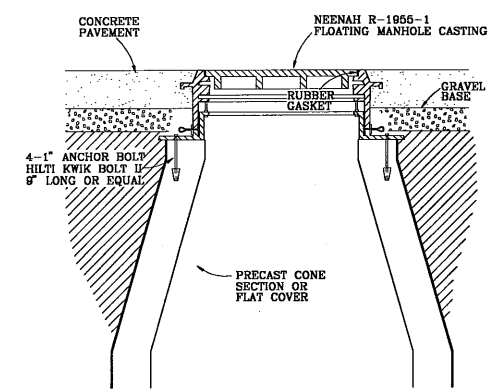
1. DIKE CONSTRUCTION INFORMATION
2. PAVING PLACEMENTS
3. SEEDING AND SODDING AREAS

FINAL PLANS

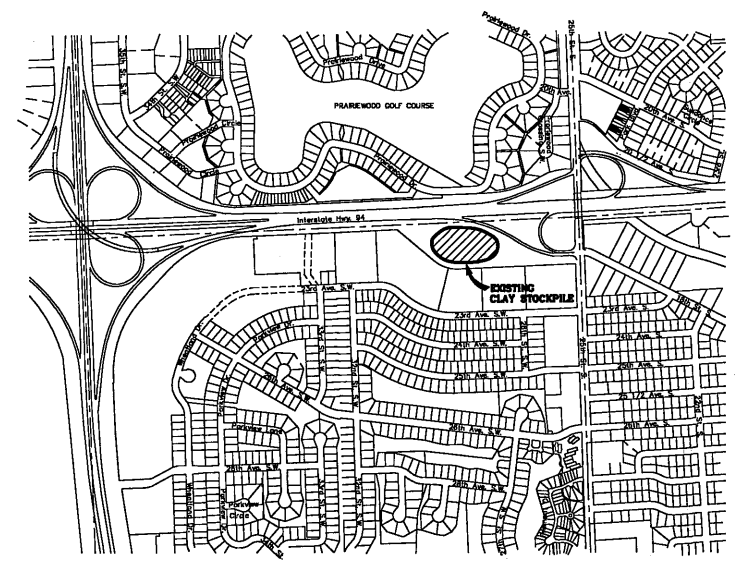
 CITY OF Fargo ENGINEERING	DIKE CONSTRUCTION & INCIDENTALS	
	IMPROVEMENT DISTRICT 4908	
	DRAWN BY: GZ	SCALE: 1" = 30'
	CHECKED BY: DWJ	DATE: JUNE, 1999
APPROVED BY: <i>ms</i>		SHEET 2 OF 5
FILE NUMBER: CC-770-INCUR, 4900, 4908, 4908-02F		



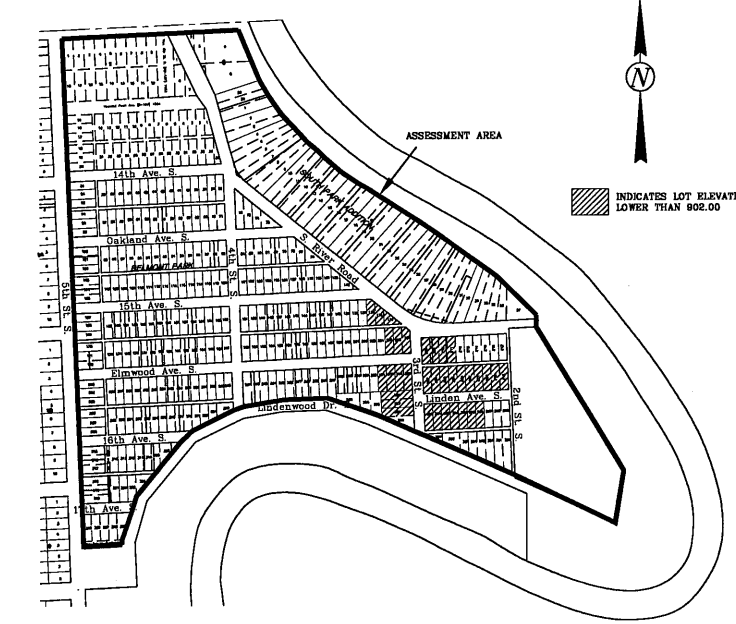
SOD-351.4



FLOATING MANHOLE COVER
N.T.S.



STOCKPILE LOCATION
N.T.S.
Note: Meter Construction obtained the clay from their
watermain replacement projects and did not use this stockpile



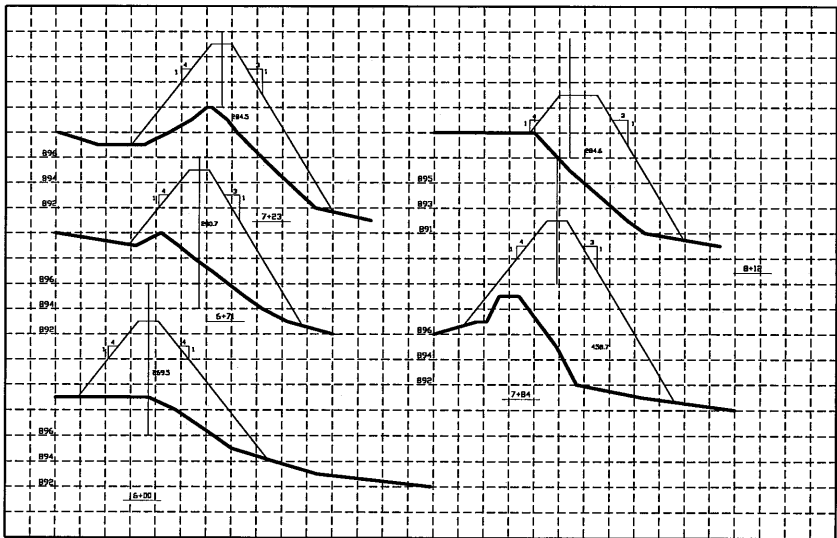
INDICATES LOT ELEVATION
LOWER THAN 902.00

- NOTE - THIS SHEET CONTAINS
1. PAVING IN SOUTH RIVER ROAD
 2. ASSESSMENT DISTRICT
 3. EXISTING CLAY STOCKPILE SITE
 4. FLOATING CASTING DETAIL

FINAL PLANS

CITY OF FARGO
ENGINEERING DEPARTMENT
LOCATION & ASSESSMENT
DIKE CONSTRUCTION
& INCIDENTALS
IMPROVEMENT DISTRICT NO.4908

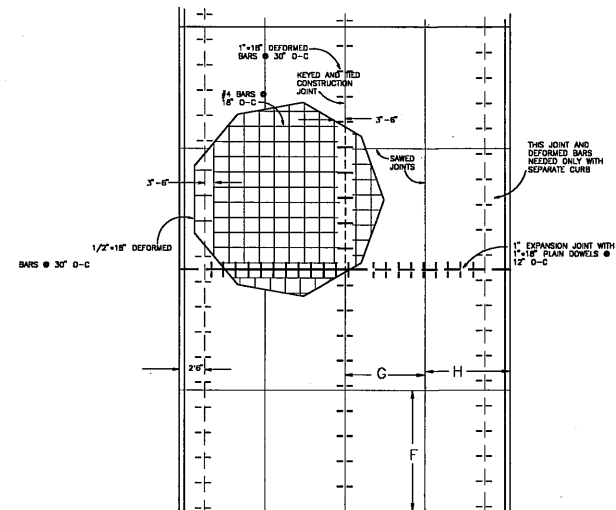
CITY OF Fargo		DIKE CONSTRUCTION & INCIDENTALS	
DRAWN BY: GZ		SCALE: AS SHOWN	
CHECKED BY: DWJ		DATE: JUNE, 1999	
APPROVED BY: [Signature]		SHEET 3 OF 5	
ENGINEERING DEPT.		FILE NAME: F:\FARGO\1999\4908\4908-03F	



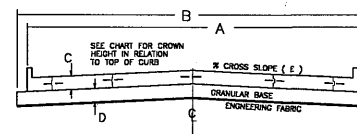
TYPICAL SECTIONS

CONCRETE PAVEMENT WIDTH	BACK-BACK WIDTH A	RAVEL BASE WIDTH B	SLAB THICKNESS C	GRAVEL THICKNESS D	% CROSS SLOPE E	CROWN HEIGHT ABOVE OR BELOW TOP OF CURB		PANEL HEIGHT F	CENTER PANEL WIDTH—G	OUTSIDE PANEL WIDTH—H	ENGINEERING FABRIC
						STD	MTBLE				
30"(RECONSTRUCT ONLY)	31	33	6"	6"	2.50%	1 1/2" BELOW	1 1/2" ABOVE	10'	8'	7.5"	ENG. FABRIC
32"	33	35	7"	6"	2.35%	1 1/2" BELOW	1 1/2" ABOVE	12'	8'	8.5"	ENG. FABRIC
36"	37	39	7"	8"	2.30%	1" BELOW	1" ABOVE	12"	9'	9.5"	ENG. FABRIC
40"	41	43	8"	8"	2.40%	1 1/2" BELOW	1 1/2" ABOVE	15'	10'	10.5"	ENG. FABRIC
52"	54	56	12"	12"	2.30%	1" ABOVE	N/A	15'	12'	12"	ENG. FABRIC
63"	64	66	9"	12"	2.25%	2 1/2" ABOVE	N/A	15'	11"	12"	ENG. FABRIC

*NOTE: CENTER PANEL IS CENTERED ON R/W, TOTAL OF 4-12' AND 1-11' PANELS



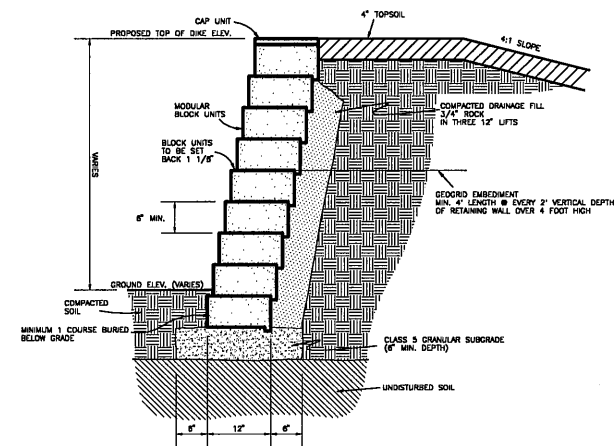
PLAN VIEW



PAVEMENT PROFILE

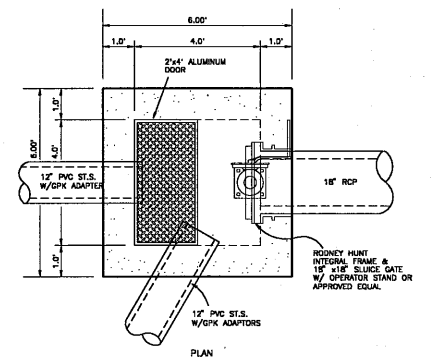
**SOUTH RIVER ROAD
CONCRETE PAVEMENT SECTION**

N.T.S

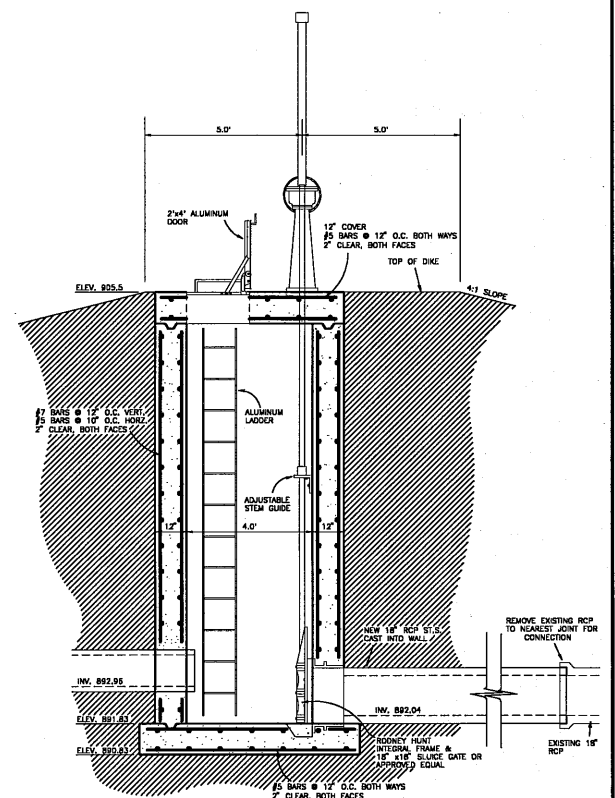


RETAINING WALL DETAIL

N.T.S.

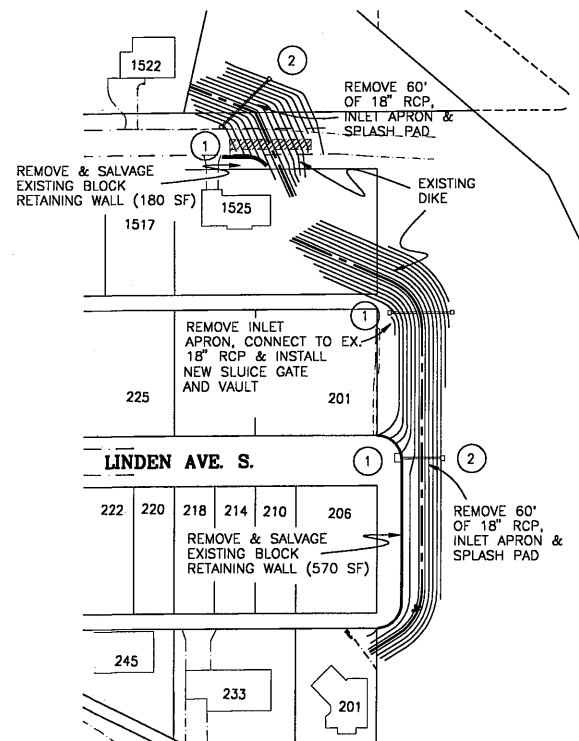


PLAN



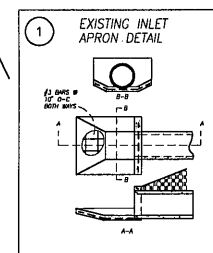
SLUICE GATE VAULT DETAIL

N.T.S.

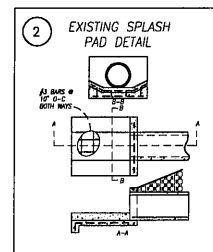


**18" ST. S. AND RETAINING
WALL REMOVAL LOCATION MAP**

N.T.S.



EXISTING INLET
ARROW DETAIL



EXISTING SPLASH



FINAL PLANS

DIKE CONSTRUCTION
& INCIDENTALS

IMPROVEMENT DISTRICT 4908

DRWN: GZ/SKL/VAL	SCALE: AS SHOWN
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CHECKED BY: DWJ	DATE: JUNE, 1999
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APPROVED BY: mf SHEET 4 OF 5

Attachment H-40, pg 6
FILE NAME: G:\PROJCUR\4900\4908\4908-04F

~~Credit to Existing Levees~~

