

Attachment H-14: Horn Park Levee Information



FMMFS: Credit to Existing Levees Horn Park, 97-13-14 (Moorhead)



FMMFS_P2_geotech_2009-04.mxd
Printed 20 NOV 09

ENGINEERING DEPARTMENT
CONSTRUCTION PLANS FOR
HORN PARK DIKE IMPROVEMENTS
ENGR. NO. 97-13-14

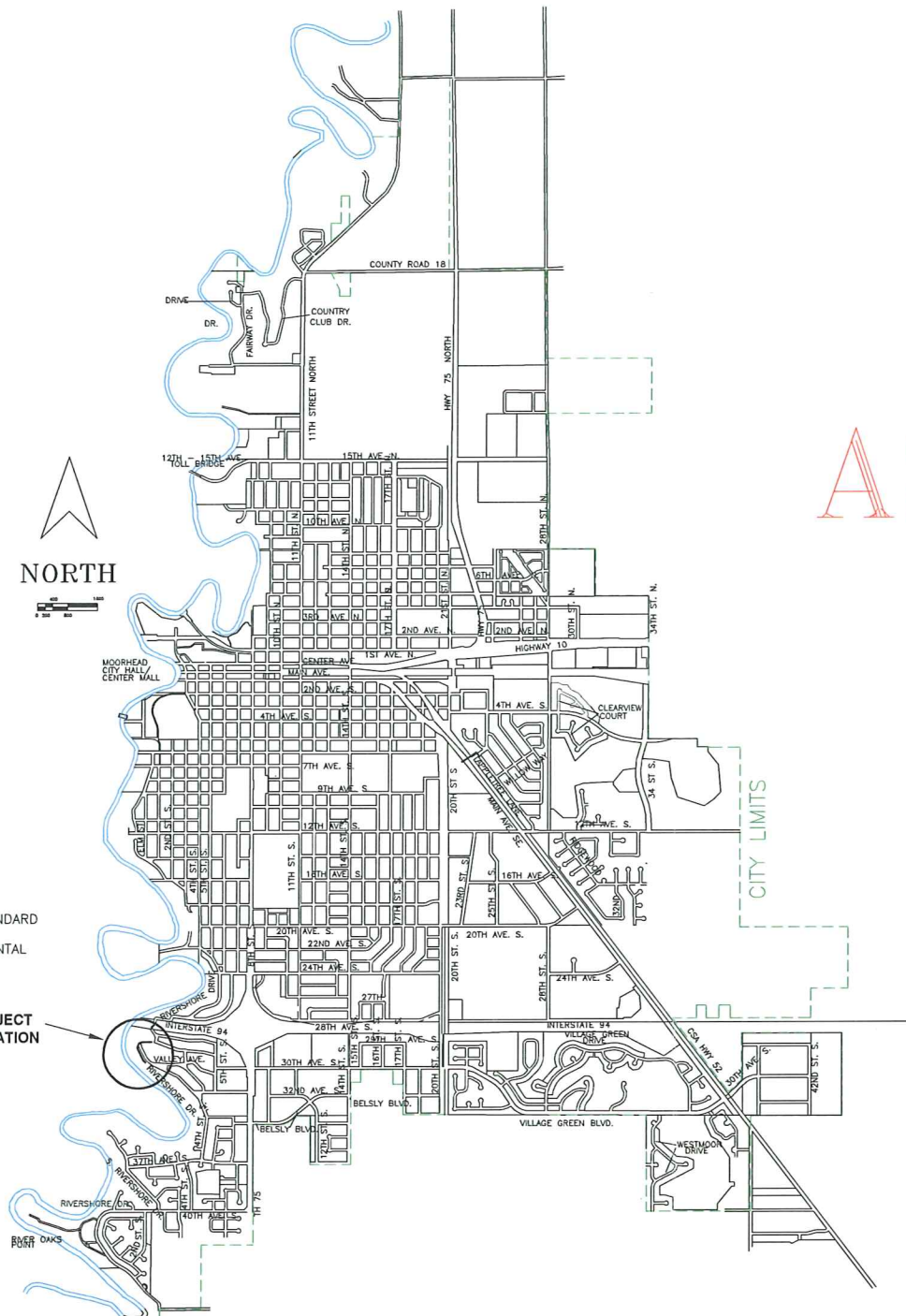
LEGEND

-----	PROPOSED OR EXISTING C&G
=====	NEW CURB AND GUTTER
-----	EXISTING SEWER
-----	NEW SEWER
W	WATERMAIN
G	GAS MAIN
T	TELEPHONE -OH OR BURIED
E	ELECTRICAL -OH OR BURIED
-----	FENCE
-----	DRIVEWAY APPROACH
-----	PAVEMENT REMOVAL
-----	HEDGE
-----	TREE
-----	EXISTING MANHOLE
-----	NEW MANHOLE
-----	EXISTING CATCH BASIN
-----	NEW CATCH BASIN
-----	HYDRANT
-----	GATE VALVE
-----	UTILITY POLE

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SHEET NO. 1 TITLE SHEET AND LOCATION
SHEET NO. 2 DIKE CONSTRUCTION PLAN
SHEET NO. 3-6 CROSS SECTIONS

AS-BUILT



SPECIFICATION REFERENCE
THE 1988 EDITION OF THE MINNESOTA
DEPARTMENT OF TRANSPORTATION "STANDARD
SPECIFICATIONS FOR CONSTRUCTION"
SHALL GOVERN ALONG WITH SUPPLEMENTAL
SPECIFICATIONS DATED MAY 2, 1994

I HEREBY CERTIFY THAT THIS PLAN 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 MINNESOTA.

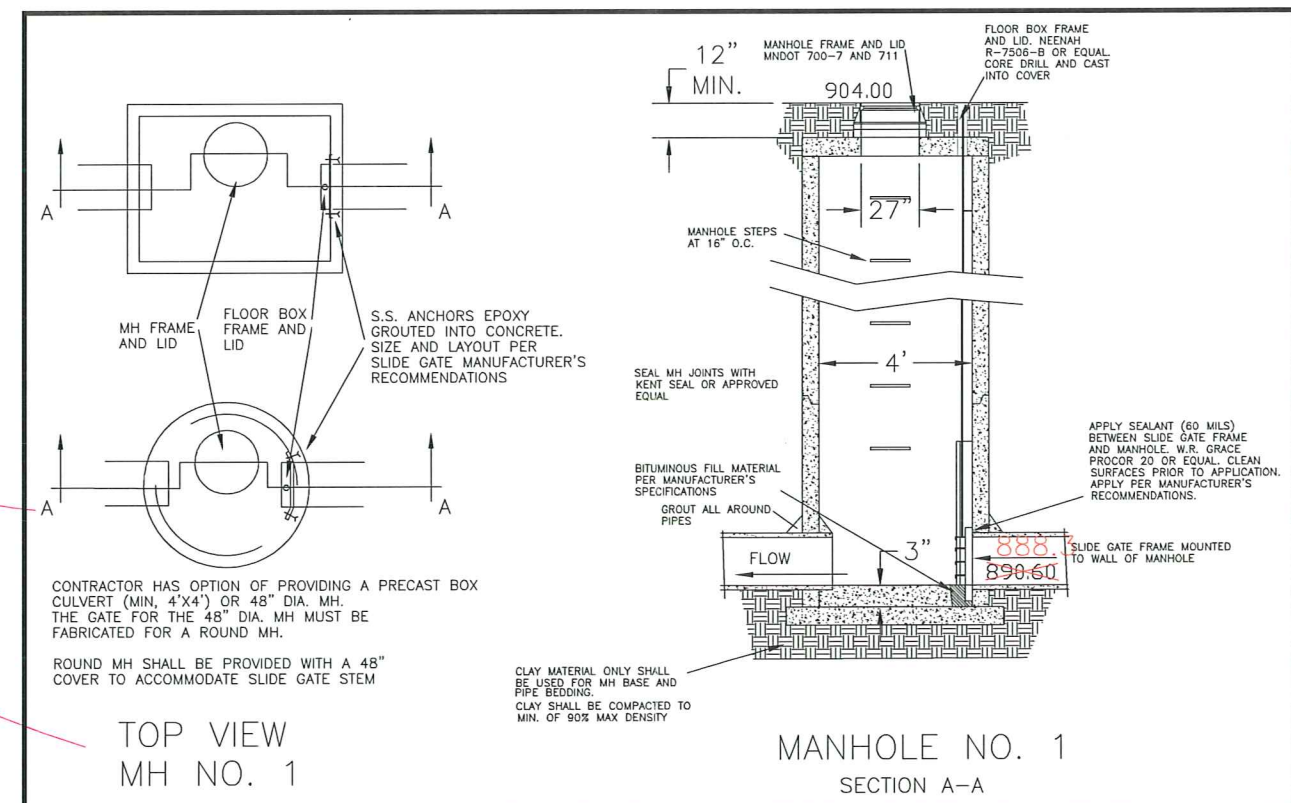
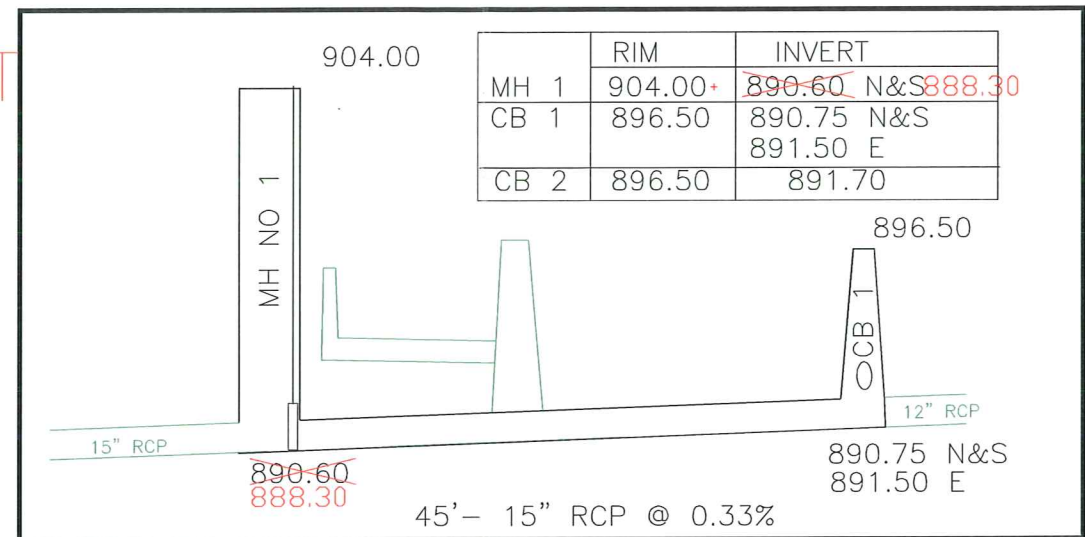
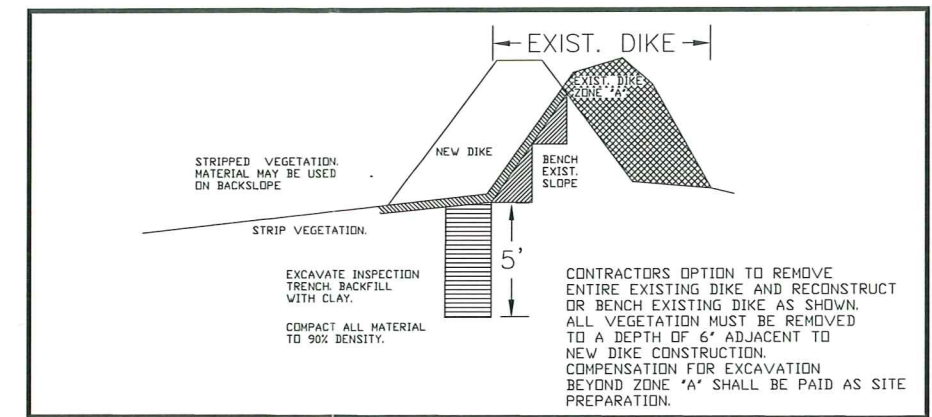
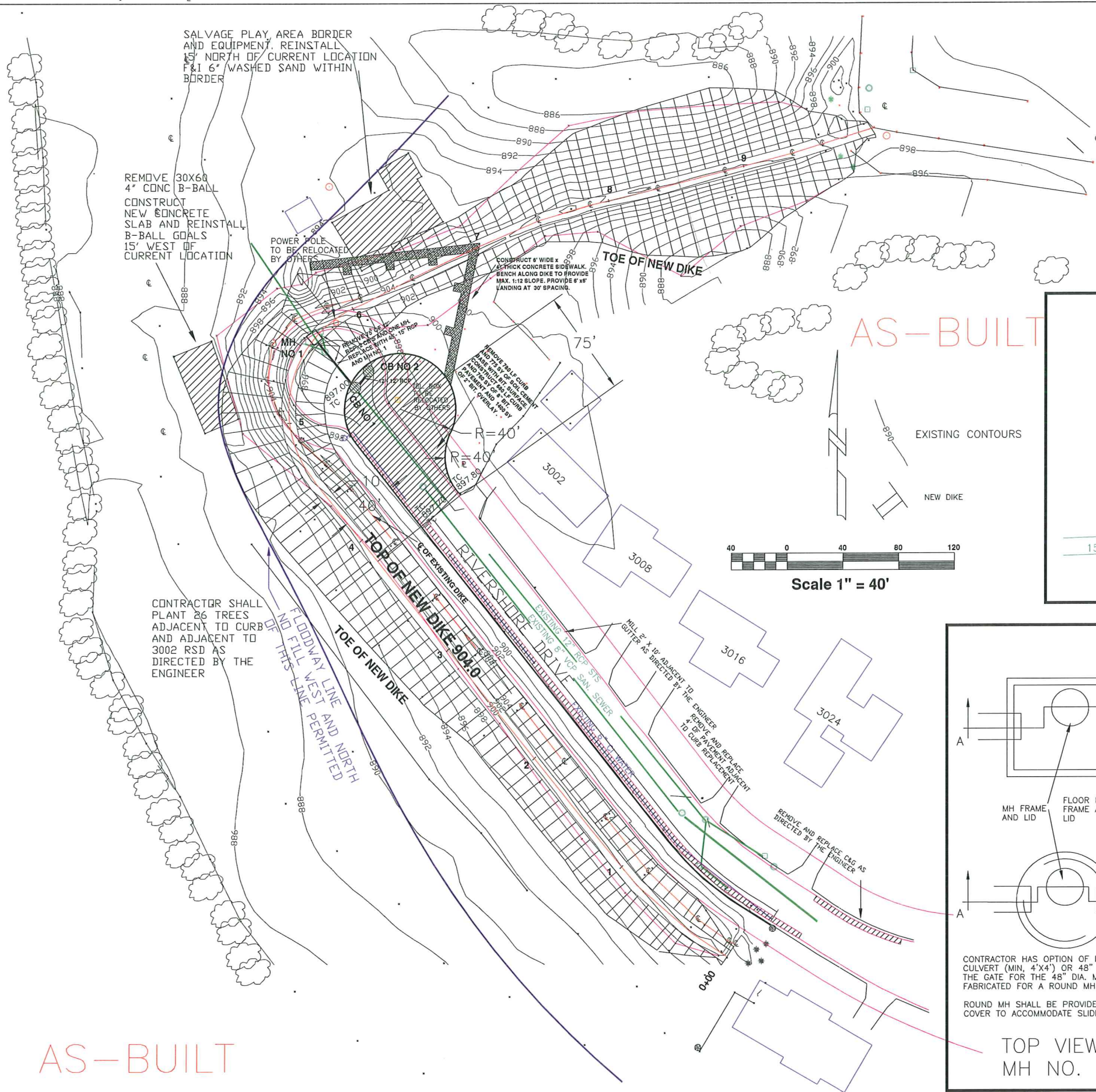
CITY ENGINEER _____ DATE _____
REG. NO 8835

RECOMMENDED FOR APPROVAL _____ DATE _____
DISTRICT STATE AID ENGINEER

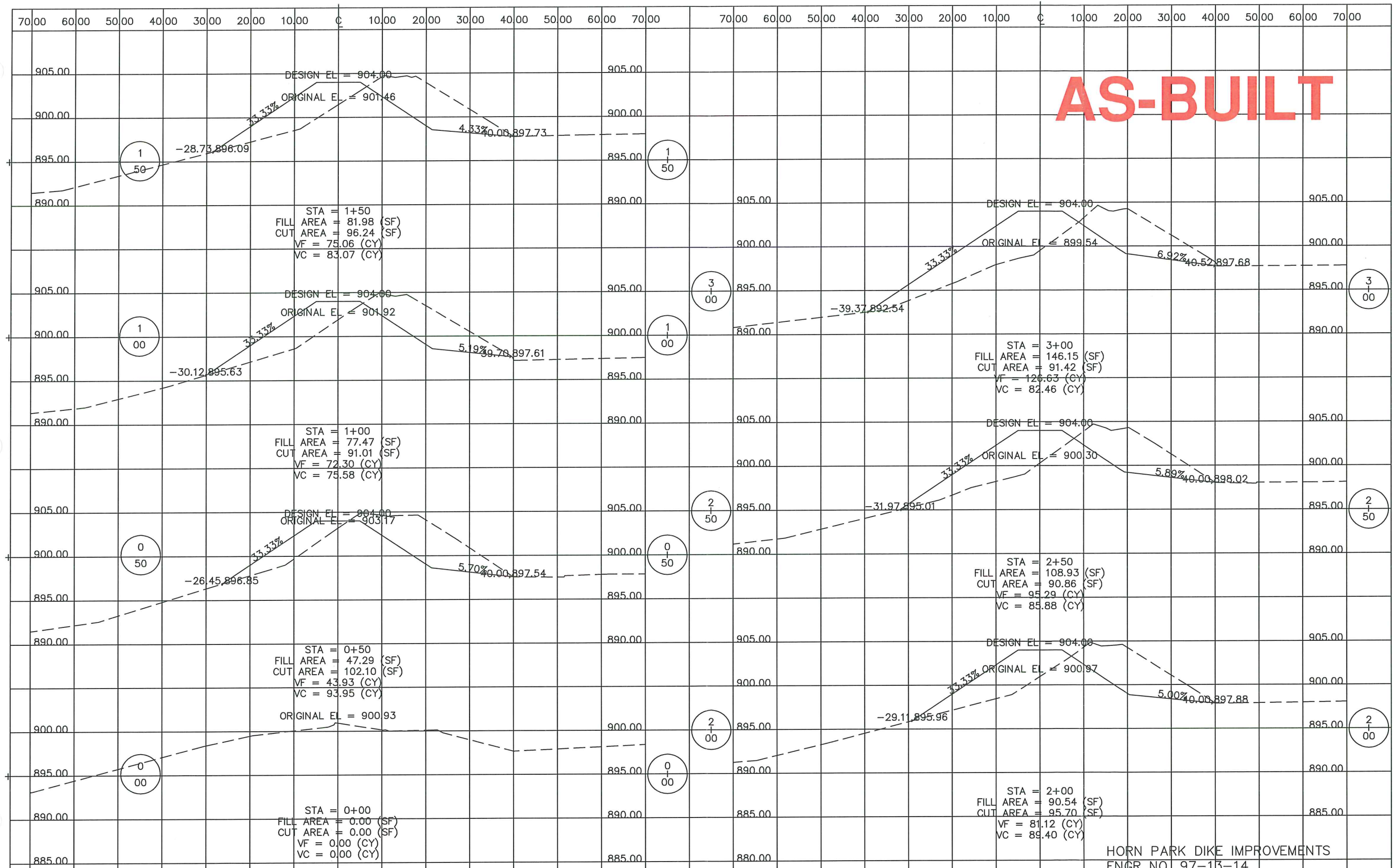
RECOMMENDED FOR APPROVAL _____ DATE _____
STATE AID PLANS & SPECS ENGINEER

APPROVED _____ DATE _____
STATE AID ENGINEER

AS-BUILT

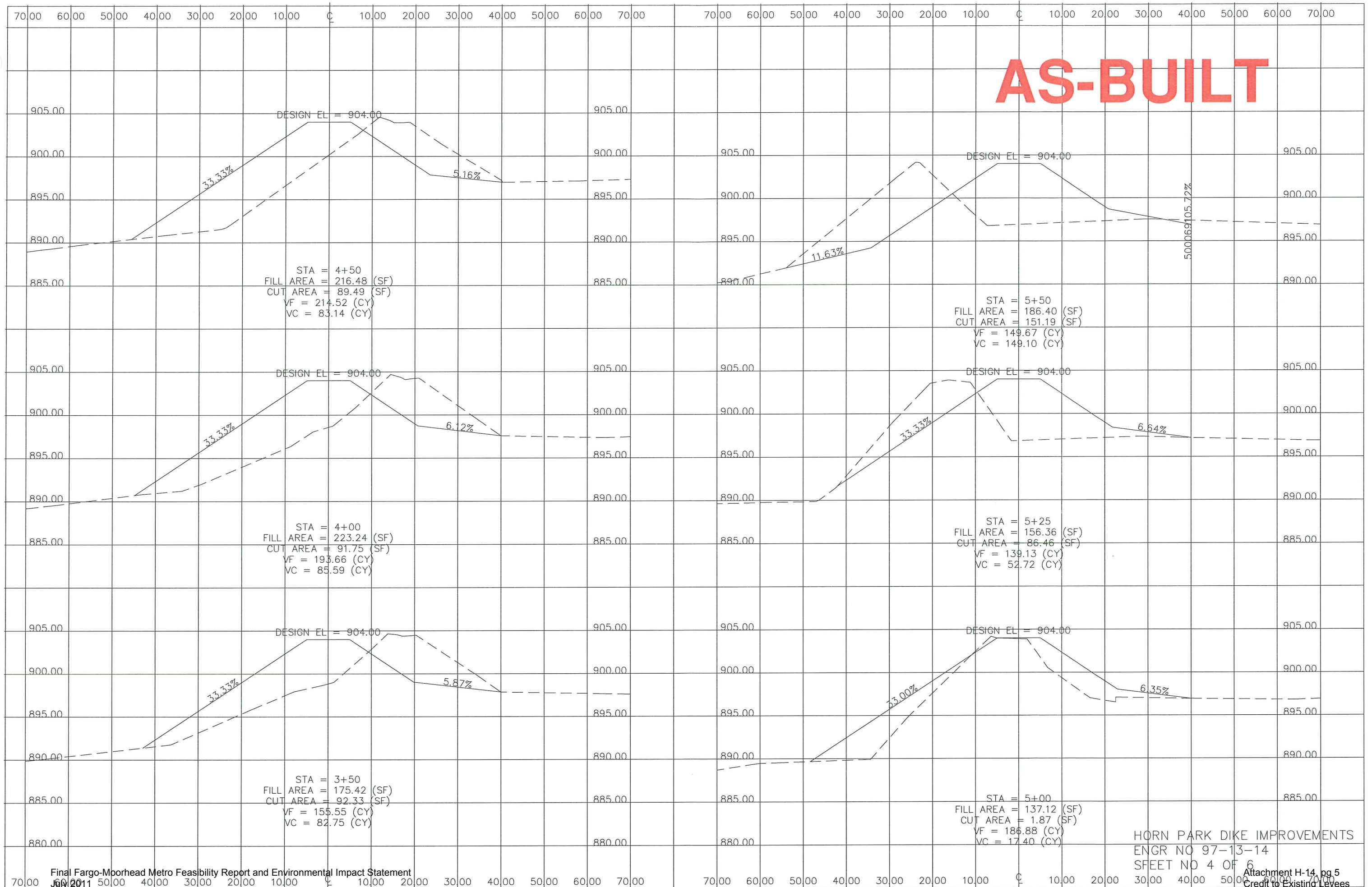


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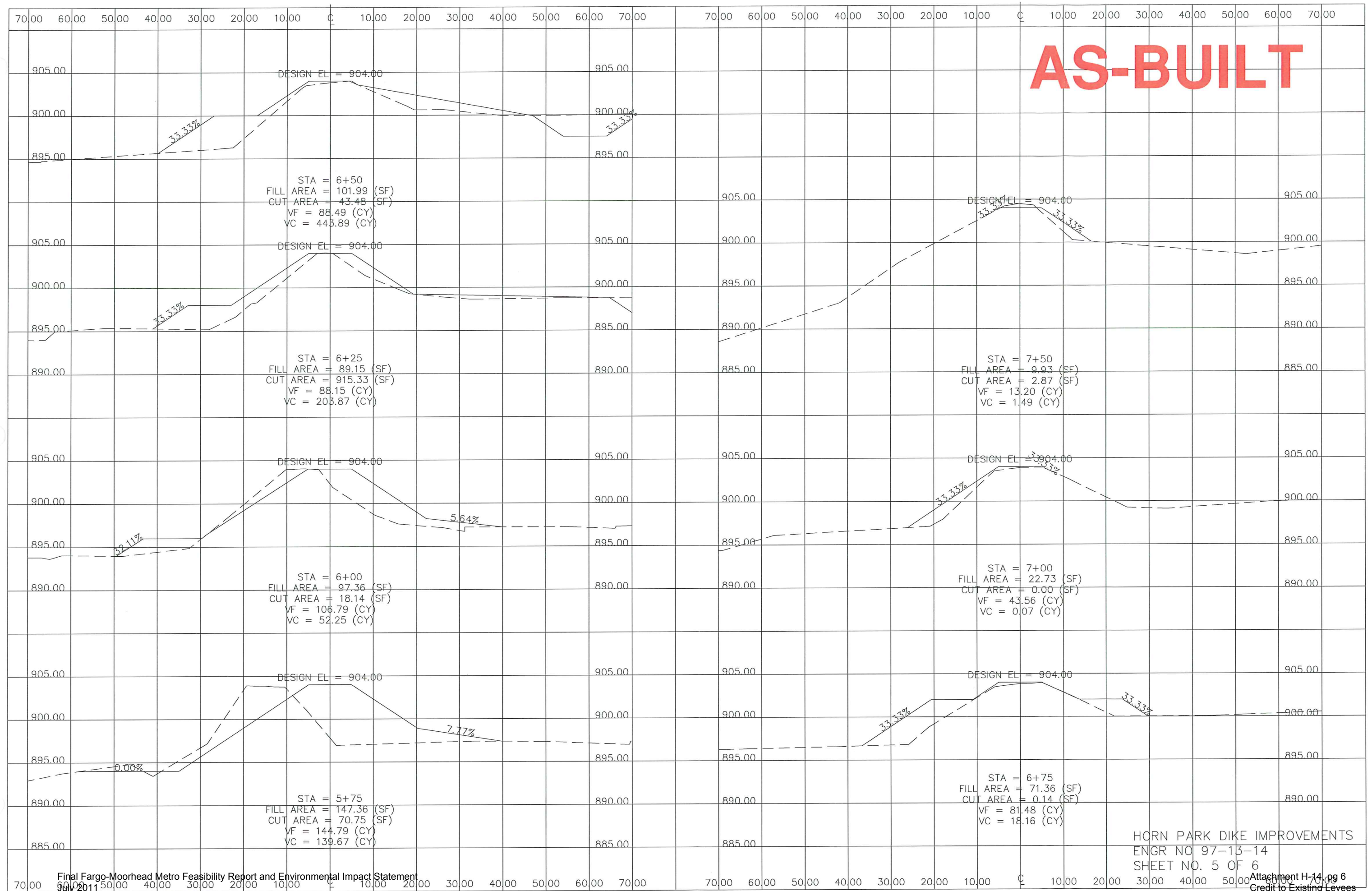


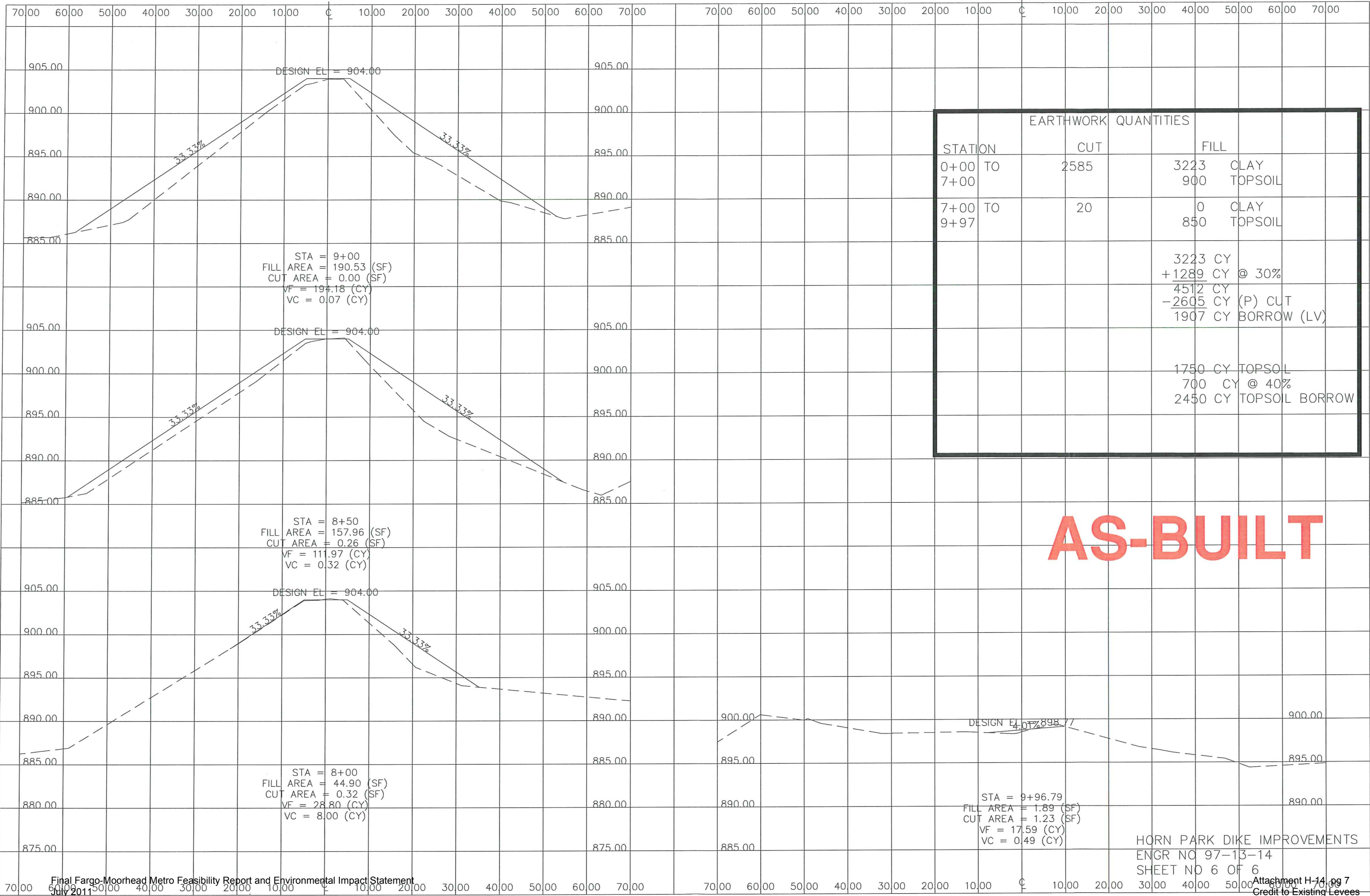
HORN PARK DIKE IMPROVEMENTS
ENGR NO. 97-13-14
SHEET 3 OF 6

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EARTHWORK QUANTITIES				
STATION		CUT	FILL	
0+00	TO	2585	3223	CLAY
7+00			900	TOPSOIL
7+00	TO	20	0	CLAY
9+97			850	TOPSOIL
			3223 CY	
			+1289 CY @ 30%	
			4512 CY	
			-2605 CY (P) CUT	
			1907 CY BORROW (LV)	
			1750 CY TOPSOIL	
			700 CY @ 40%	
			2450 CY TOPSOIL BORROW	