

CITY OF PAGE
PAGE, ARIZONA
RE—LINING OF EFFLUENT LAGOONS 2A AND 2B
SEPTEMBER 2023
FOR CONSTRUCTION

MAYOR

BILL DIAK

VICE MAYOR

JOHN KOCJAN

COUNCIL MEMBERS

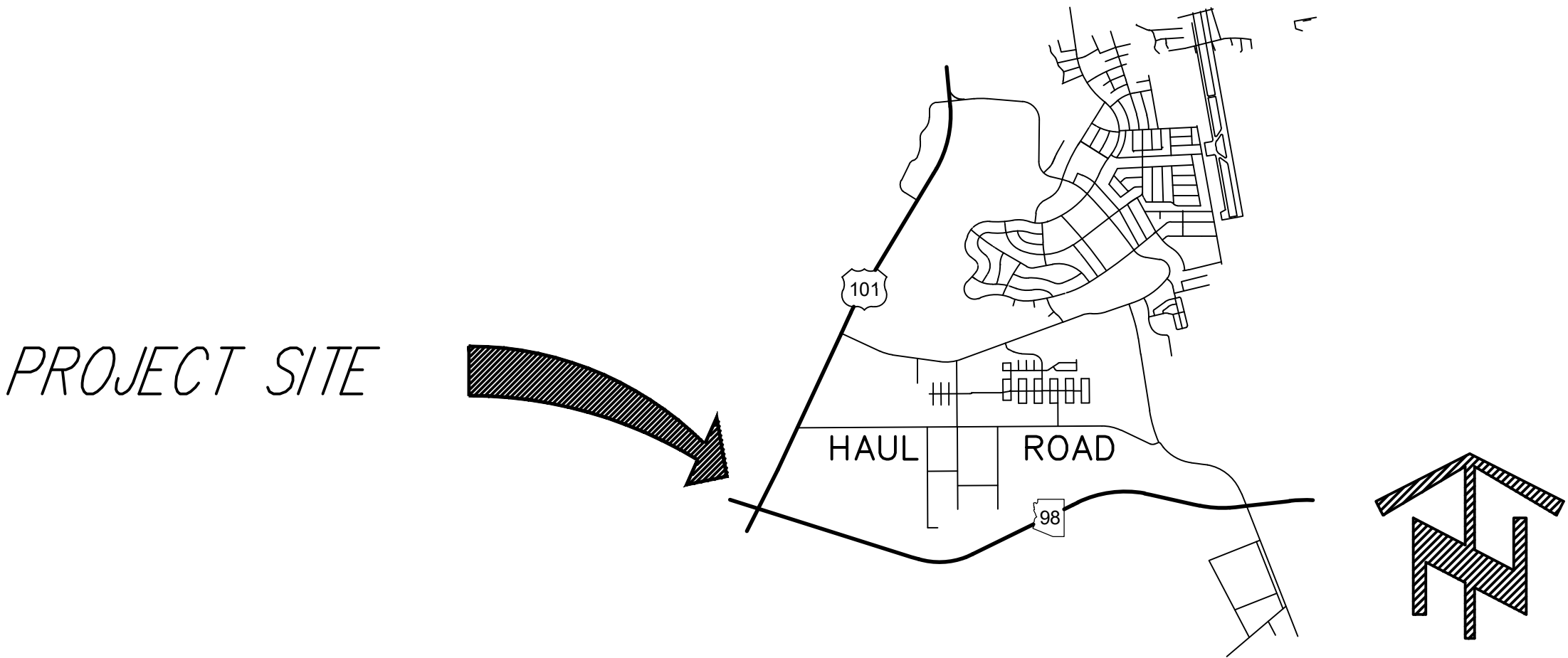
THERESA LEE
DAVID AUGE
BRIAN CAREY
RICHARD LEIGHTNER
MICHAEL FARROW

MANAGER

DARREN COLDWELL

CLERK

KIM LARSON



GENERAL NOTES AND SPECIFICATIONS:

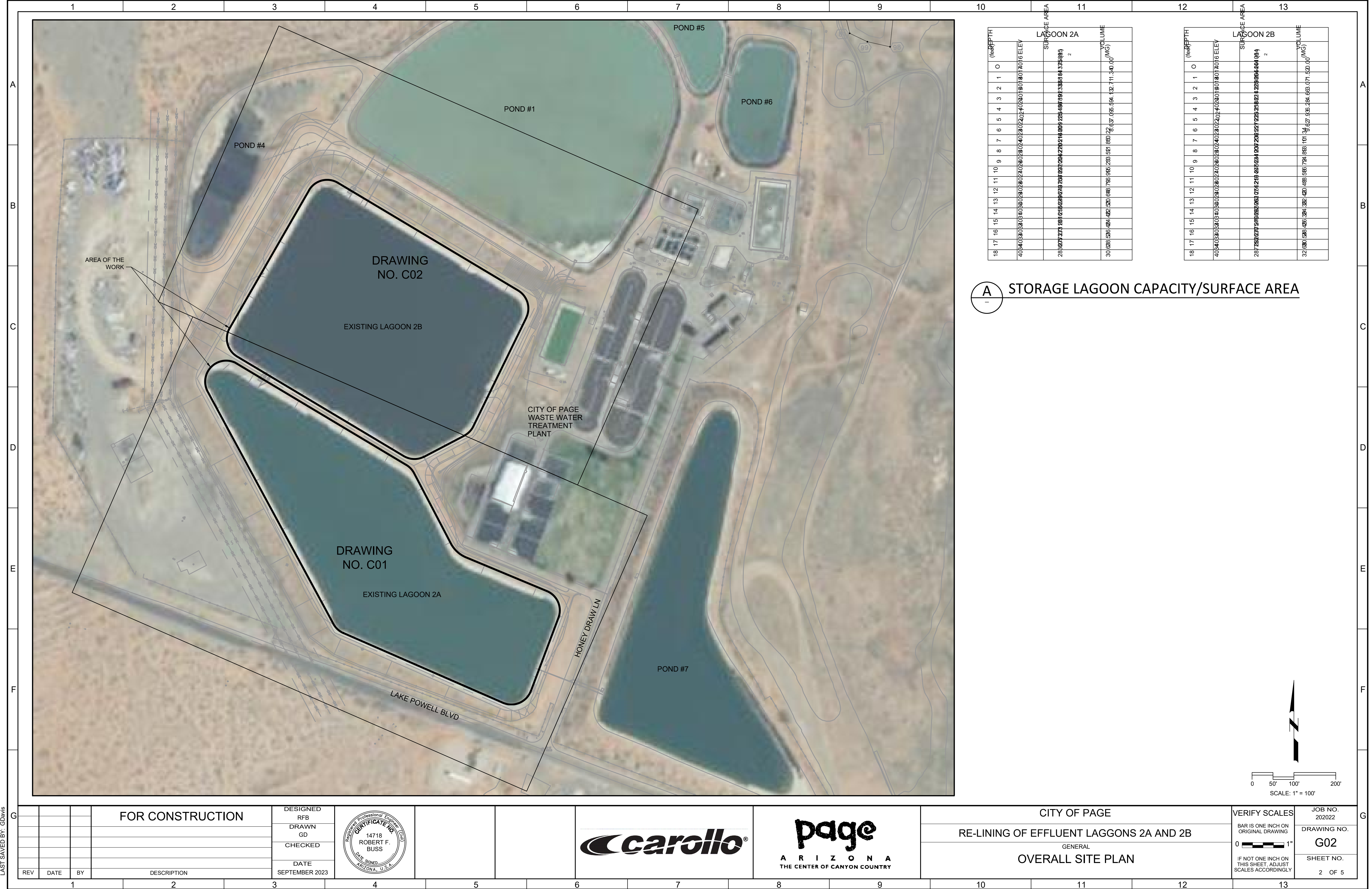
- UNLESS OTHERWISE NOTED, WORK ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG).
 - TRENCH DENSITY COMPACTION IS 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AND TESTED USING ASTM D6938 TEST METHOD.
 - FREQUENCY OF TESTING IS EVERY 500LF OF LINER ANCHOR TRENCH.
 - REFER TO MAG SPEC 601.4.6
- THIS PROJECT IS LOCATED ON THE SITE OF OWNER'S EXISTING WASTEWATER TREATMENT PLANT (WWTP). THE WWTP IS AN ESSENTIAL PUBLIC FACILITY THAT MUST FUNCTION CONTINUOUSLY. WORK ON THIS PROJECT WILL REQUIRE BRIEF INTERRUPTIONS OR MODIFICATIONS IN SOME WWTP OPERATIONS. CONTRACTOR SHALL NOTIFY WWTP OPERATING STAFF OF SUCH INTERRUPTIONS OR MODIFICATIONS NOT LESS THAN FIVE DAYS IN ADVANCE. CONTRACTOR SHALL OTHERWISE FULLY COORDINATE HIS WORK WITH THE WWTP'S OPERATING STAFF TO MAINTAIN FULL FUNCTIONING OF THE WWTP.
- WASTE MATERIAL TO BE REMOVED FROM SITE SHALL BE TRANSPORTED TO A WASTE DISPOSAL SITE DESIGNATED BY OWNER.
- INTERIOR SURFACES OF BASINS 2A AND 2B SHALL BE COVERED GEOMEMBRANE LINER. SEE LINER DETAILS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR PRODUCT DATA FOR THE FOLLOWING:

--GEOMEMBRANE LINER MATERIALS

DRAWING INDEX

SHEET	DRAWING	TITLE
	(G) - GENERAL	
1	G01	COVER SHEET AND DRAWING INDEX
2	G02	OVERALL SITE PLAN
	(C) - CIVIL	
3	C01	EXISTING LAGOON 2A PLAN
4	C02	EXISTING LAGOON 2B PLAN
5	C03	SECTIONS AND DETAILS





LAGOON 2A																	
SURFACE AREA																	
VOLUME																	
18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
ELEV																	
405.40	34.03	30.24	31.03	30.24	31.03	30.24	31.03	30.24	31.03	30.24	31.03	30.24	31.03	30.24	31.03	30.24	31.03
283.67	273.28	263.89	254.50	245.11	235.72	226.33	216.94	207.55	198.16	188.77	179.38	169.99	160.60	151.21	141.82	132.43	123.04
30	338	536	424	422	520	608	755	965	213	521	880	22	637	135	594	132	711
MG																	

LAGOON 2B																	
SURFACE AREA																	
VOLUME																	
18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
ELEV																	
405.40	34.03	30.24	31.03	30.24	31.03	30.24	31.03	30.24	31.03	30.24	31.03	30.24	31.03	30.24	31.03	30.24	31.03
287.25	277.86	268.47	259.08	249.69	240.30	230.91	221.52	212.13	202.74	193.35	183.96	174.57	165.18	155.79	146.40	137.01	127.62
32	600	508	455	394	382	420	483	665	754	683	101	34	627	135	284	683	071
MG																	

A STORAGE LAGOON CAPACITY/SURFACE AREA

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FOR CONSTRUCTION			
REV	DATE	BY	DESCRIPTION
1			
2			
3			
4			

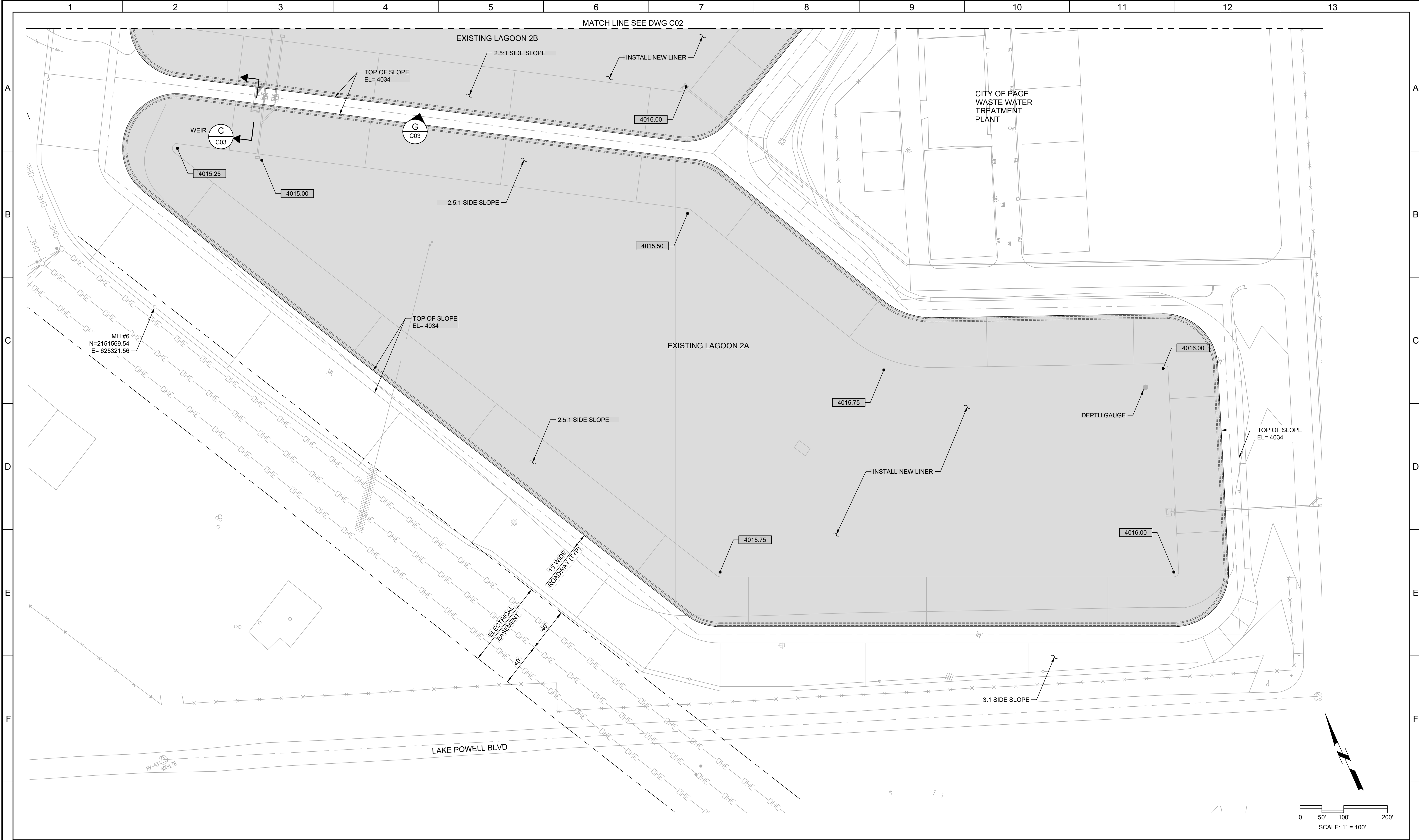
DESIGNED	RFB
DRAWN	GD
CHECKED	
DATE	SEPTEMBER 2023



CITY OF PAGE	
RE-LINING OF EFFLUENT LAGGONS 2A AND 2B	
GENERAL	
OVERALL SITE PLAN	

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

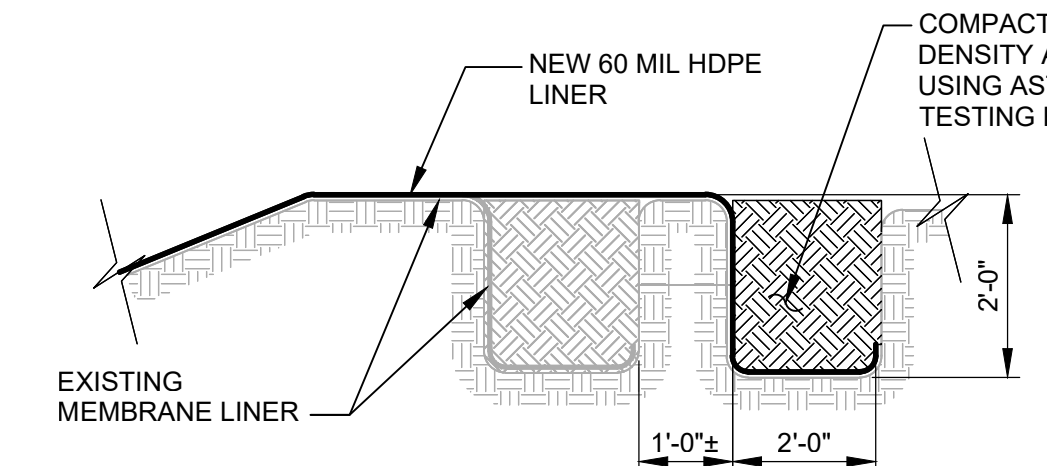
JOB NO.	202022
DRAWING NO.	G02
SHEET NO.	2 OF 5



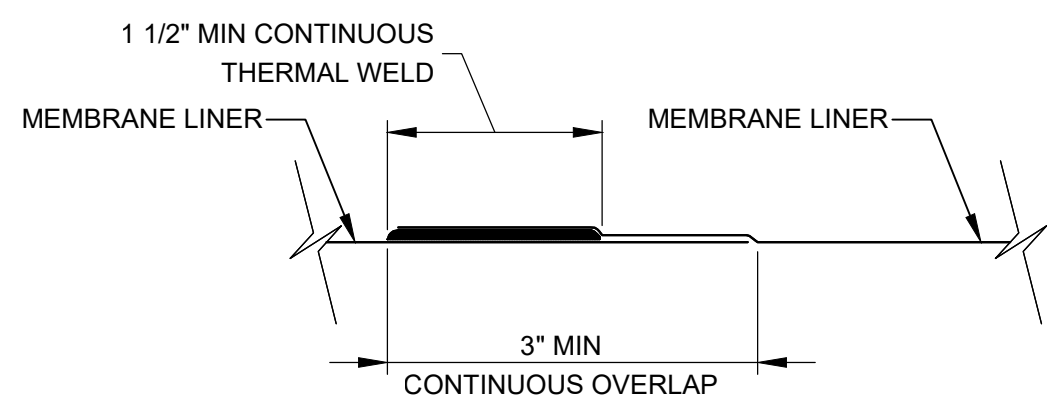
G				FOR CONSTRUCTION	DESIGNED RFB							CITY OF PAGE		VERIFY SCALES	JOB NO. 202022	G
					DRAWN GD							RE-LINING OF EFFLUENT LAGGONS 2A AND 2B		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
					CHECKED							CIVIL		0  1"	C01	
					DATE SEPTEMBER 2023							EXISTING LAGOON 2A PLAN		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.	
	REV	DATE	BY	DESCRIPTION										3 OF 5		



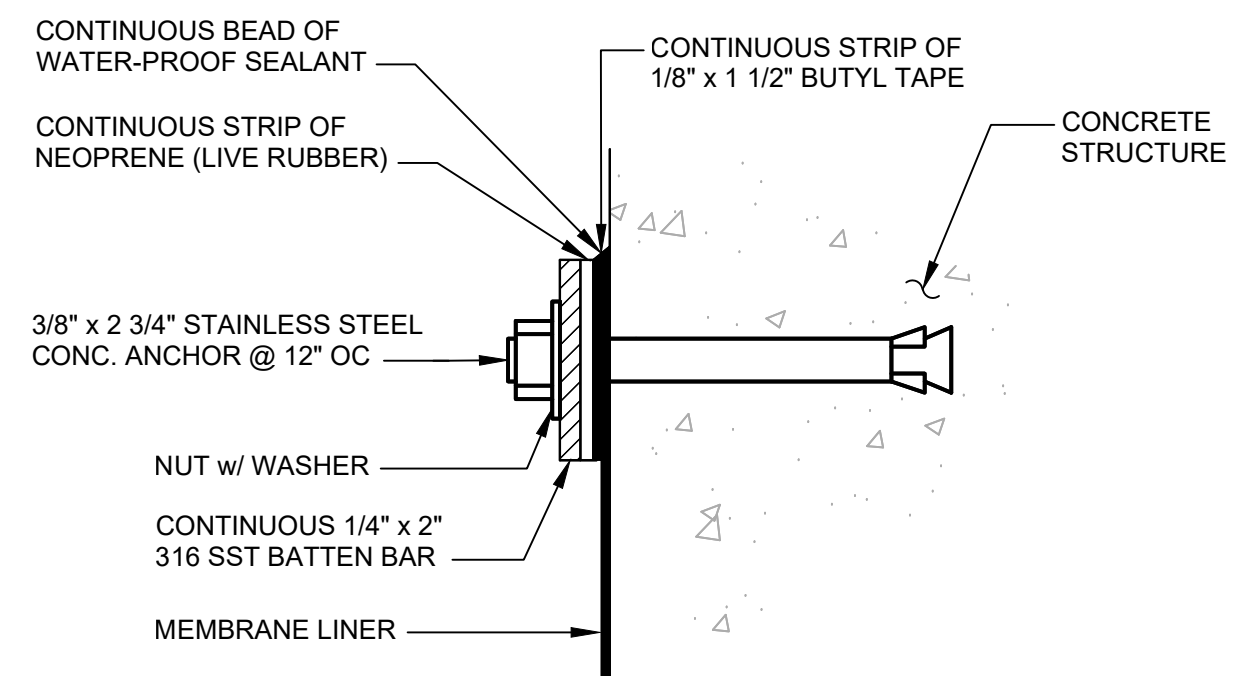
FOR CONSTRUCTION				DESIGNED RFB				CITY OF PAGE				VERIFY SCALES	JOB NO. 202022	
				DRAWN GD				RE-LINING OF EFFLUENT LAGGONS 2A AND 2B				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. C02	
				CHECKED				CIVIL				0 1"	SHEET NO.	
REV	DATE	BY	DESCRIPTION	DATE SEPTEMBER 2023					EXISTING LAGOON 2B PLAN				4 OF 5	



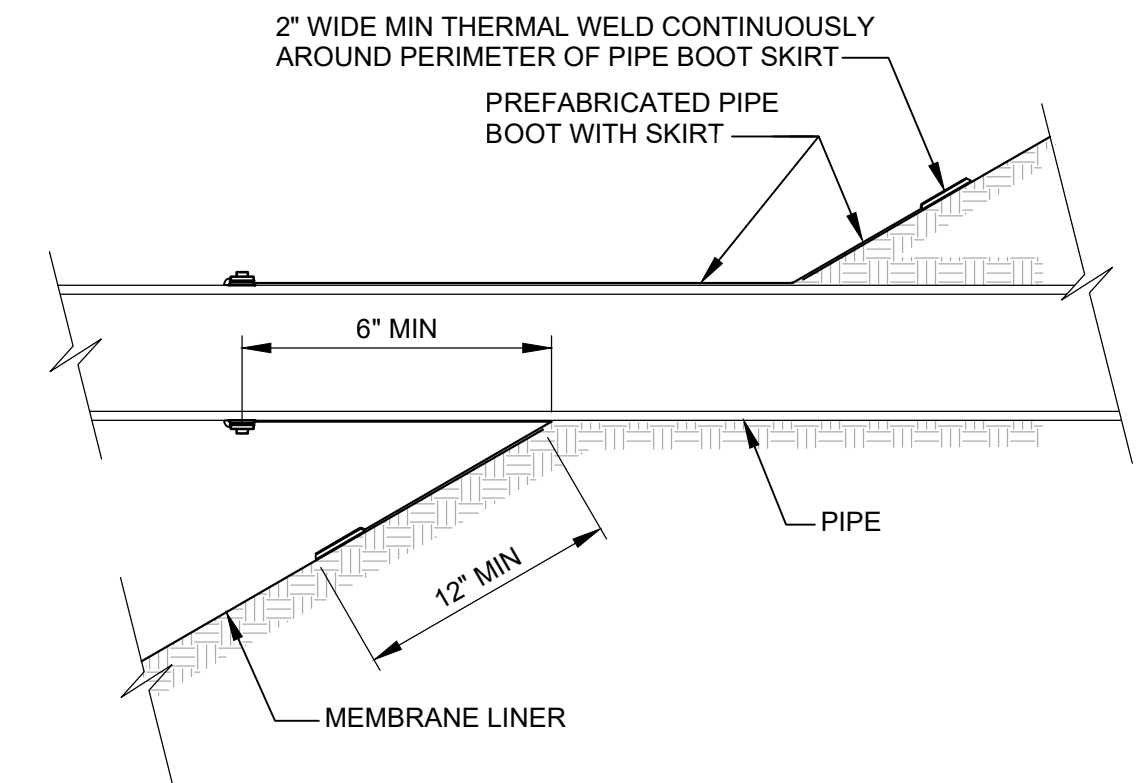
A LINER ANCHOR TRENCH DETAIL
SCALE: NO SCALE
FILE: 202022C0301



B LINER FIELD SEAM DETAIL
SCALE: NO SCALE
FILE: 202022C0301

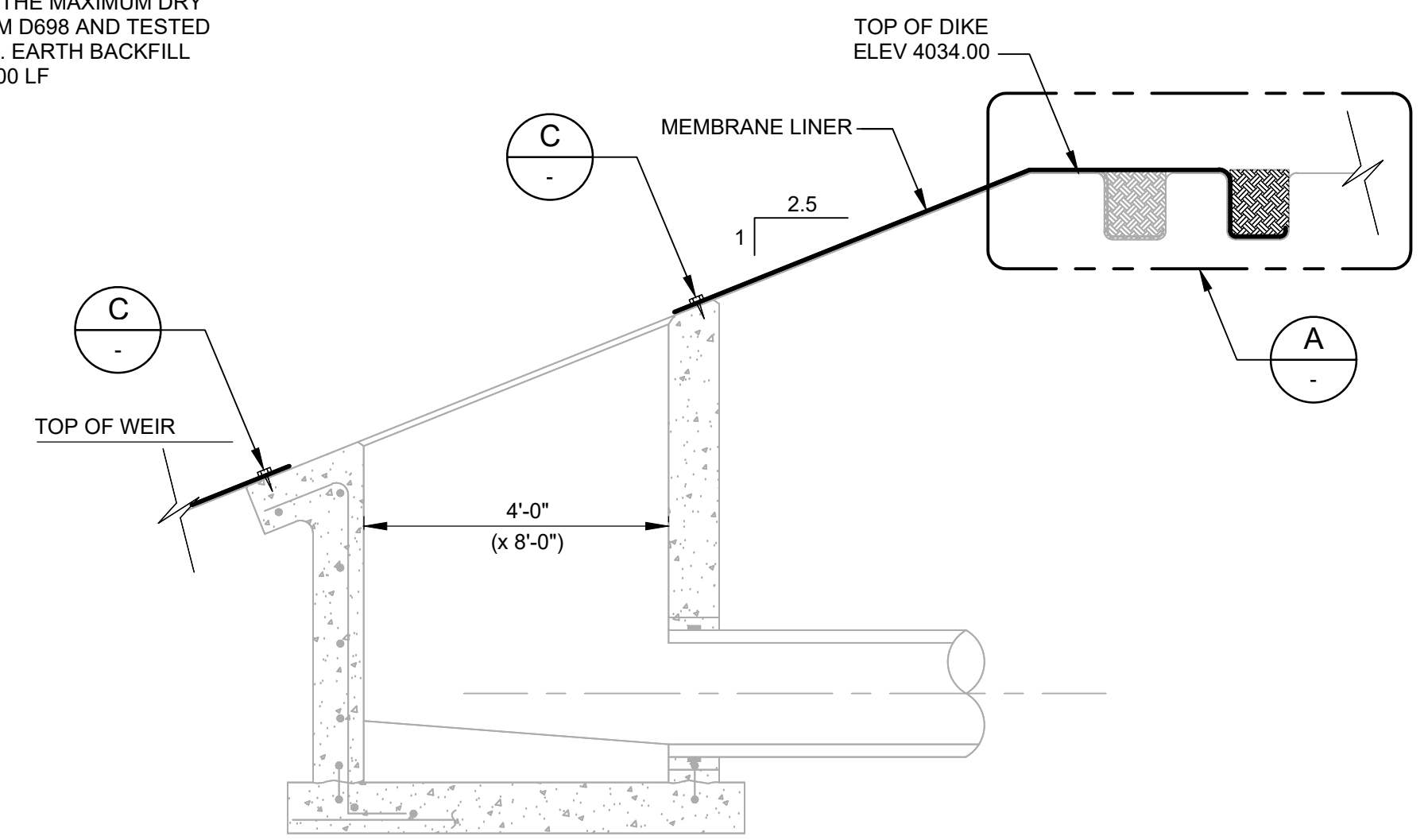


C MEMBRANE LINER TO CONCRETE
SCALE: NO SCALE
FILE: 202022C0301

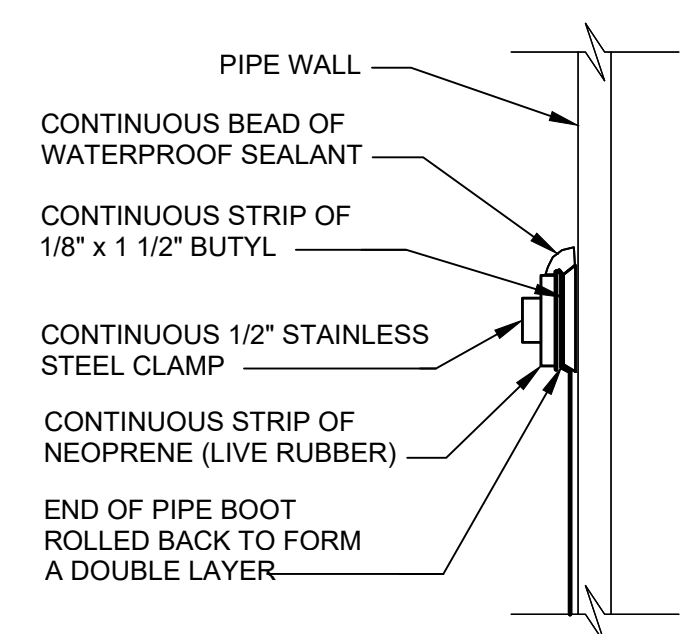


D PIPE THROUGH HORIZONTAL SLOPE
SCALE: NO SCALE
FILE: 202022C0301

NOTE: CONTRACTOR MUST VERIFY PIPE O.D. AND NOTIFY E.L. BEFORE BOOT FABRICATION



C SECTION - EXISTING WEIR BOX
SCALE: NO SCALE
FILE: 202022C0301



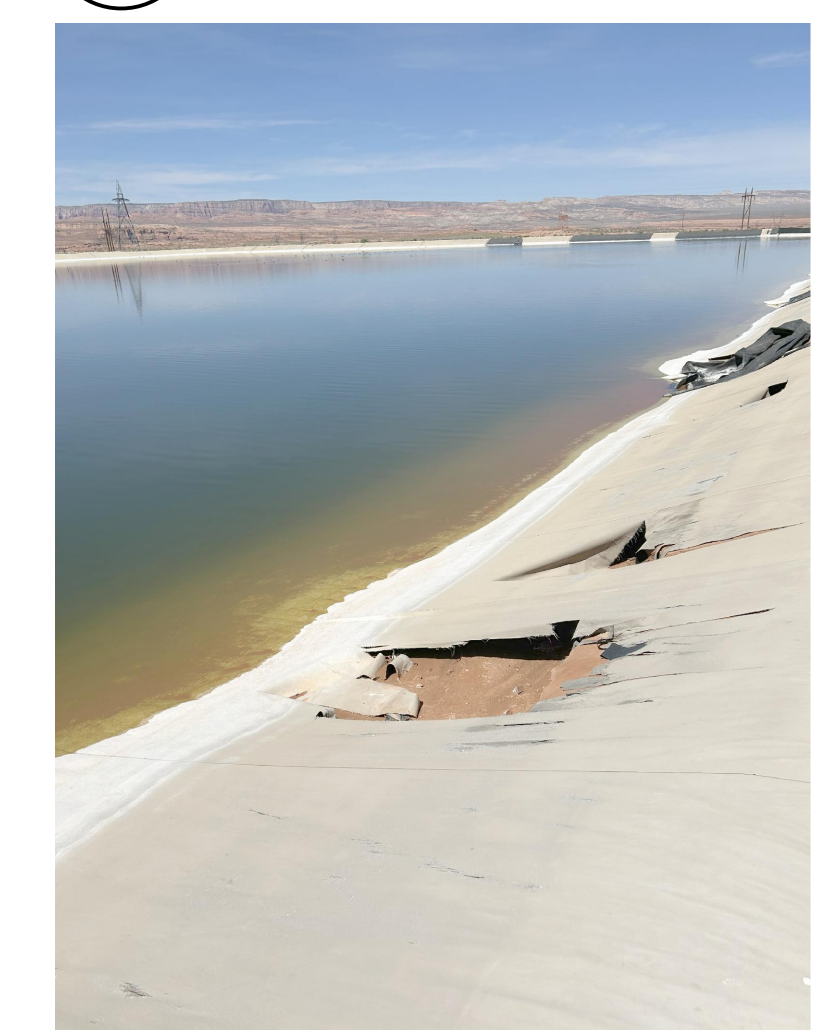
F SECTION - PVC PIPE
SCALE: NO SCALE
FILE: 202022C0301



G LOOKING EAST ACROSS BERM OF LAGOON 2A TO 2 B
FILE: 2020229001G



H LOOKING SOUTH ALONG BERM OF LAGOON 2B TO 1
FILE: 2020229001H



- CONSTRUCTION NOTES:**
- VOIDS UNDER EXISTING LINER MUST BE FILLED AND COMPACTED TO 90%. MATCH SLOPE OF EXISTING BERM.
 - REMOVE EXISTING LINER AS NECESSARY TO FILL ALL Voids PRIOR TO INSTALLATION OF NEW LINER.
 - THIS WORK IS INCIDENTAL TO INSTALLATION OF NEW LINER.

J LAGOON 2B DAMAGED LINER
FILE: 2020229001J

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G				FOR CONSTRUCTION	DESIGNED RFB							CITY OF PAGE		VERIFY SCALES	JOB NO. 202022
					DRAWN GD							RE-LINING OF EFFLUENT LAGGONS 2A AND 2B	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
					CHECKED							CIVIL	0 1"	C03	
					DATE SEPTEMBER 2023							SECTIONS AND DETAILS	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 5 OF 5	
REV	DATE	BY	DESCRIPTION												