ENVIROGUARD PTY LTD ERSKINE PARK LANDFILL - MSE WALL DESIGN



DRAWING LIST		
DRAWING No.	DRAWING TITLE	ISSUE
001	COVER SHEET	CONSTRUCTION
002	DESIGN NOTES	CONSTRUCTION
003	EXISTING SITE CONDITIONS AND SERVICES	CONSTRUCTION
004	GENERAL ARRANGEMENT PLAN	CONSTRUCTION
005	INVESTIGATION PLAN	CONSTRUCTION
010	FOUNDATION PREPARATION PLAN	CONSTRUCTION
011	STAGE 1 - RETAINING WALL PLAN	CONSTRUCTION
012	STAGE 1 - FILLING PLAN (TOP OF WASTE)	CONSTRUCTION
021	STAGE 2 - RETAINING WALL PLAN	CONSTRUCTION
022	STAGE 2 - FILLING PLAN (TOP OF WASTE)	CONSTRUCTION
023	CAPPING PLAN	CONSTRUCTION
030	PLAN AND LONGSECTION OF MSE WALL - SHEET 1 OF 2	CONSTRUCTION
031	PLAN AND LONGSECTION OF MSE WALL - SHEET 2 OF 2	CONSTRUCTION
032	SITE CROSS SECTIONS	CONSTRUCTION
035	RETAINING WALL LONG SECTION - SHEET 1 OF 2	CONSTRUCTION
036	RETAINING WALL LONG SECTION - SHEET 2 OF 2	CONSTRUCTION
037	CHAINAGE AND ELEVATION TABLE	CONSTRUCTION
038	FOUNDATION TREATMENT TYPE DETAILS	CONSTRUCTION
040	TYPICAL SECTION	CONSTRUCTION
041	TOP OF WALL TYPICAL SECTIONS	CONSTRUCTION
043	REINFORCING SECTIONS - SHEET 1 OF 3	CONSTRUCTION
042	RETAINING WALL TYPICAL SECTIONS	CONSTRUCTION
044	REINFORCING SECTIONS - SHEET 2 OF 3	CONSTRUCTION
045	REINFORCING SECTIONS - SHEET 3 OF 3	CONSTRUCTION
046	DRAINAGE CHIMNEY LONG SECTION SHEET 1 OF 2	CONSTRUCTION
047	DRAINAGE CHIMNEY LONG SECTION SHEET 2 OF 2	CONSTRUCTION
048	DRAINAGE CHIMNEY DETAILS - SHEET 1 OF 2	CONSTRUCTION
049	DRAINAGE CHIMNEY DETAILS - SHEET 2 OF 2	CONSTRUCTION
050	TYPICAL LINER DETAILS	CONSTRUCTION
050	TYPICAL LINER ANCHORAGE DETAILS	CONSTRUCTION
052	TYPICAL LINER CONNECTION DETAILS	CONSTRUCTION
053	FACING DETAILS - SHEET 1 OF 2	CONSTRUCTION
053	FACING DETAILS - SHEET - 2 OF 2	CONSTRUCTION
055	TRAFFIC BARRIER TYPICAL DETAIL	CONSTRUCTION
056	TRAFFIC BARRIER SITE PLAN DETAIL	CONSTRUCTION
057		
	TRAFFIC BARRIER FOOTING DETAIL	CONSTRUCTION
058	FENCE DETAIL	CONSTRUCTION
059	PAVEMENT DETAILS	CONSTRUCTION
059 060	PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING	CONSTRUCTION CONSTRUCTION
059 060 061	PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER OF ANTAINE PIRES TEMETRATION DETAILS OF SURFACE WATER OF ANTAINE PIRES	CONSTRUCTION CONSTRUCTION
059 060 061 062	PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PEMETRATION DETAILS OF SURFACE WATER DRAWASS PIRES PERIMETER ACCESS AND SURFACE DRAIN OUTLET	CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION
059 060 061 062 865	PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PEMETRATION DETAILS OF SURFACE WATER ORANGE PIPES PERIMETER ACCESS AND SURFACE DRAIN OUTLET SURFACEWATER CHANNEL DISSION—PRICIPS CROSS SECTION	CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION
059 060 061 062 065 066	PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PEMETRATION DETAILS OF SURFACE WATER OF BANASE PIRES PERIMETER ACCESS AND SURFACE DRAIN OUTLET SURFACE WATER CHANNEL DESIGN. PYPLOAL CROSS SECTION. SURFACE WATER NORTH WEST CHANNEL DISCHARGE	CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION
059 060 061 062 865 066 067	PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER-DRAWASE PIRES PERMETER ACCESS AND SURFACE DRAIN OUTLET SURFACE WATER-OWNED LISSION—PYPENED, CRYSS-SECTION SURFACE WATER-NORTH WEST CHANNEL DISCHARGE SURFACE WATER-NORTH WEST CHANNEL DISCHARGE	CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION
059 060 061 062 865 066 067 068	PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER-CRANKRSE PIRES PERIMIETRA ACCESS AND SURFACE WATER-CRANKRSE PIRES SURFACE WATER-NORTH VESTION—TYPICAL CROSS SECTION— SURFACE WATER-NORTH VEST CHANNEL DISCHARGE SURFACE WATER-NORTH EAST CHANNEL DISCHARGE SURFACE WATER-NORTH EAST CHANNEL DISCHARGE SURFACE WATER-TYPICAL ANCHOR DETAILS	CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION
059 060 061 062 065 066 067 068 070	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER-CRANKRAS-PIRES PERIMETER ACCESS AND SURFACE DRAIN OUT. SURFACE WATER-CHANGEL DESSON - PREDAIL CROSS-PECTION SURFACE WATER-NOTHER STATE CHANNEL DISCORDE SURFACE WATER-NOTHER ST CHANNEL DISCORDE SURFACE WATER-NOTHER ST CHANNEL DISCORDE SURFACE WATER-NOTHER SECTIONS - SHEET 1 OF 10	CONSTRUCTION
059 060 062 065 066 067 068 070 071	PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER-CRAWRASE PIRES PERIMIETRA ACCESS AND SURFACE WATER-CRAWRASE PIRES SURFACE WATER-NORTH VESTION—TYPICAL CROSS SECTION—SURFACE WATER-NORTH VEST CHANNEL DISCHARGE SURFACE WATER-NORTH VEST CHANNEL DISCHARGE SURFACE WATER-NORTH VEST CHANNEL DISCHARGE SURFACE WATER-TYPICAL ANCHOR DETAILS WALL AND LANDFILL CROSS SECTIONS - SHEET 10 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 20 F 10	CONSTRUCTION
059 060 061 062 865 066 067 068 070 071	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PEMETRATION DETAILS OF SURFACE WATER-CRAWAGE PIRES PERMETRA ACCESS AND SURFACE DEAN OUTLIES SECTION SURFACE WATER-CHANNEL DESIGN PYPEIGA. CRISS-SECTION SURFACE WATER-NOTH WEST CHANNEL DISCHARGE SURFACE WATER-NOTH WEST CHANNEL DISCHARGE SURFACE WATER-NOTH WEST CHANNEL DISCHARGE SURFACE WATER-TYPICIAL ANCHOR DETAILS WALL AND LANDFILL CROSS SECTIONS - SHEET 10 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 20 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 30 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 30 F 10	CONSTRUCTION
059 060 061 062 865 066 067 068 070 070 071	PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER-CRANKRSE PIRES PERIMIETRA ACCESS AND SURFACE WATER-CRANKRSE PIRES PERIMIETRA ACCESS AND SURFACE WATER-CORRESCHOOL SURFACE WATER-NORTH VEST CHANNEL DISCHARGE SURFACE WATER-NORTH EAST CHANNEL DISCHARGE WALL AND LANDFILL CROSS SECTIONS - SHEET 10 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 20 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 30 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 30 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 30 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 30 F 10	CONSTRUCTION
059 060 060 065 062 985 066 067 068 070 071 072 073 074	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER-CRAWAGE PIRES PERIMETER ACCESS AND SURFACE DRAIN OUTLET SURFACE WATER CHANNEL DESIGN TYPICAS. CROSS SECTION. SURFACE WATER - NORTH VESSION TYPICAS. CROSS SECTION. SURFACE WATER - NORTH EAST CHANNEL DISCHARGE SURFACE WATER - NORTH EAST CHANNEL DISCHARGE WALL AND LANDFILL CROSS SECTIONS. SHEET 10F 10 WALL AND LANDFILL CROSS SECTIONS. SHEET 20F 10 WALL AND LANDFILL CROSS SECTIONS. SHEET 30F 10 WALL AND LANDFILL CROSS SECTIONS. SHEET 30F 10 WALL AND LANDFILL CROSS SECTIONS. SHEET 3 0F 10 WALL AND LANDFILL CROSS SECTIONS. SHEET 3 0F 10 WALL AND LANDFILL CROSS SECTIONS. SHEET 3 0F 10 WALL AND LANDFILL CROSS SECTIONS. SHEET 3 0F 10 WALL AND LANDFILL CROSS SECTIONS. SHEET 5 0F 10 WALL AND LANDFILL CROSS SECTIONS. SHEET 5 0F 10 WALL AND LANDFILL CROSS SECTIONS. SHEET 5 0F 10	CONSTRUCTION
059 060 061 062 965 066 067 068 070 071 072 073 074 075	PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER-CRANKRSE PIRES PERIMETER ACCESS AND SURFACE WATER-CRANKRSE PIRES PERIMETER ACCESS AND SURFACE WATER-CONTACT SHOULTET SURFACE WATER-NORTH VEST CHANNEL DISCHARGE SURFACE WATER-NORTH EAST CHANNEL DISCHARGE WALL AND LANDFILL CROSS SECTIONS - SHEET 10 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 30 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 30 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 30 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 50 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 50 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 50 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 50 F 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 50 F 10	CONSTRUCTION
059 060 060 061 062 865 066 067 068 070 071 072 073 074 075 076	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER-CRANKASE PIRES PERIMETER ACCESS AND SURFACE DRAIN OUTLET SURFACE WATER CHANNEL DESIGN — TYPICAL CRISSS SECTION — SURFACE WATER -NORTH VEST CHANNEL DISCHARGE SURFACE WATER -NORTH EAST CHANNEL DISCHARGE SURFACE WATER -TYPICAL ANOHOLO EDETAILS WALL AND LANDFILL CROSS SECTIONS — SHEET 2 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 4 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS — SHEET 7 OF 10	CONSTRUCTION
059 060 060 061 062 985 066 067 068 070 071 072 073 074 075 075 076	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE DATAN OUTLIESS—PIRES PERIMETER ACCESS AND SURFACE DATAN OUTLIESS—PIRES PERIMETER ACCESS AND SURFACE DATAN SURFACE WATER-NOTH HEST CHANNEL DISCHARGE WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 4 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10	CONSTRUCTION
059 060 061 062 062 066 066 066 070 071 072 073 074 075 076 077 077	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PEMETRATION DETAILS OF SURFACE WATER-CRANKRSE PIRES PERIMETER ACCESS AND SURFACE PARIO UTILET SURFACE WATER-CHANNEL DESIGN—TYPICAL-CRSSS SECTION—SURFACE WATER-NORTH VEST CHANNEL DISCHARGE SURFACE WATER-NORTH VEST CHANNEL DISCHARGE SURFACE WATER-NORTH EAST CHANNEL DISCHARGE SURFACE WATER-TYPICAL ANOHOR DETAILS WALL AND LANDFILL CROSS SECTIONS - SHEET 2 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 2 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10	CONSTRUCTION
059 060 061 062 062 066 066 066 067 071 072 073 074 075 076 077 077 077 077 077	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER-CRAWARS-PIPES PERIMETER ACCESS AND SURFACE DEAN OUT. SURFACE WATER-CHARACE DEAN OUT. SURFACE WATER-CHARACE DEAN OUT. SURFACE WATER-OWNEL DESSION—PEDION. CROSS-PECTION SURFACE WATER-OWNEL DESSION—PEDION. CROSS-PECTIONS SURFACE WATER-OWNEL PAST CHANNEL DISORNER SURFACE WATER-NOTHER ACT CHANNEL DISORNER WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 TO 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 TO 10	CONSTRUCTION
059 060 061 062 865 066 066 071 071 072 073 074 075 076 077 076 077 078 079 088	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PEMETRATION DETAILS OF SURFACE WATER-CRANKRSE PIRES PERIMETER ACCESS AND SURFACE WATER-CRANKRSE PIRES PERIMETER ACCESS AND SURFACE WATER-CRANKRSE PIRES SURFACE WATER-NORTH VEST CHANNEL DISCHARGE WALL AND LANDFILL CROSS SECTIONS - SHEET 2 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 10 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 10 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 10 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 10 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 10 OF 10 WASTRUMBLE PATCH WATER WATER MATERIAL WATER	CONSTRUCTION
059 060 061 062 062 065 066 067 068 070 071 072 073 074 075 076 077 077 079 880	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PEMETRATION DETAILS OF SURFACE WATER-CRAWAGE PIRES PERMETRA ACCESS AND SURFACE DEAN OUT. SURFACE WATER-CRAWAGE DESIGN. PYPEIGRA CROSS SECTIONS SURFACE WATER-ANORTH WEST CHANNEL DISCHARGE SURFACE WATER-ANORTH WEST CHANNEL DISCHARGE SURFACE WATER-TYPICIAL ANCHOR DETAILS WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 10 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 10 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 10 OF 10 WASTERMENTATION CROSS SECTIONS - SHEET 10 OF 10 WASTERMENTATION CROSS SECTIONS	CONSTRUCTION CONST
059 060 061 062 062 065 066 066 070 071 071 072 073 074 075 076 077 079 079 079 079 079 079 079 079 079	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PEMETRATION DETAILS OF SURFACE WATER/CRANKASE PIRES PERIMETER ACCESS AND SURFACE WATER/CRANKASE PIRES PERIMETER ACCESS AND SURFACE WATER/CRANKASE PIRES SURFACE WATER - NORTH WEST CHANNEL DISCHARGE SURFACE WATER - NORTH WEST CHANNEL DISCHARGE SURFACE WATER - NORTH WEST CHANNEL DISCHARGE SURFACE WATER - TYPICAL ANOHOR DETAILS WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WASTRUMENTATION CROSS SECTIONS - SHEET 1 OF 10 WASTRUMENTATION DETAIL - SHEET 1 OF 2	CONSTRUCTION CONST
059 060 060 061 062 865 066 067 068 070 071 072 073 074 075 076 077 077 078 880 083	PAVEMENT DETAILS PAVEMENT DETAILS OF UNIT 15A PIPE AT FACING PEMETRATION DETAILS OF SURFACE WATER-CRAWAGE PIRES PERIMETER ACCESS AND SURFACE DRAIN OUTLET SURFACE WATER-CRAWAGE DESIGN. PTPEIGA. CRISS SECTIONS SURFACE WATER-MORTH WEST CHANNEL DISCHARGE SURFACE WATER-MORTH WEST CHANNEL DISCHARGE SURFACE WATER-TYPICIAL ANCHOR DETAILS WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 5 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 2 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 2 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 2	CONSTRUCTION CONST
059 060 060 061 062 865 066 067 068 070 071 072 073 074 0774 0776 0777 079 081 081 082 083	PAVEMENT DETAILS PAVEMENT DETAILS PENETRATION DETAILS OF UNIT 15A PIPE AT FACING PENETRATION DETAILS OF SURFACE WATER-CROWNERS PIPES PERIMETER ACCESS AND SURFACE DRAIN OUTLIESS—ACCTION SURFACE WATER-NOTH HEST CHANNEL DISCHARGE WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 3 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 4 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 6 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 7 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 8 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WAS AND WALL AND LANDFILL CROSS SECTIONS - SHEET 1 OF 10 WAS AND WALL WATER AND WATER AND WATER 1 OF 10 WAS AND WATER 1 OF 10 WATER 1 OF	CONSTRUCTION CONST
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NOTES

- THESE NOTES APPLY TO ALL PROJECT DRAWINGS IN THE SET UNLESS NOTED OTHERWISE AND SHALL BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATION.
- AND SPALL BE READ IN CONDICTION WITH THE TECHNICAL SPECIFICATION. ALL LEVELS ARE IN METRES TO AND DATUM.
 ALL CO-ORDINATES ARE IN METRES TO MAY GRID AUSTRALIA (MGA 94, ZONE 56).
 ALL DIMENSIONS ARE IN METRES WILESS NOTED OTHERWISE
- LOCATION AND DEPTH OF ALL SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.
- DIMENSIONS SHALL NOT BE SCALED OFF DRAWINGS.

 DRAWINGS MUST BE PRINTED IN COLOUR TO CORRECTLY IDENTIFY ALL DESIGN ELEMENTS

REFERENCES

- SITE BOUNDARIES TAKEN FROM FILE "2220BASE.dwg"
- AERIAL IMAGERY PROVIDED BY CLIENT "Erskine, Park, 2019_12_04_map.ecw"

 EXISTING GROUND IS COMBINATION OF THE FOLLOWING DATA SOURCES, ORDERED BY PRIOIRTY (1 is LOWEST)
- 3.1. SITE SURVEY FROM CLIENT "2019 12 04. Erskine Park 3m. Grid Faces.dx"
 3.2. EAST EMBANKEMENT SURVEY "2220DET08.dwg" CAPTURE DATE 2020-02-18
 3.3. GHD "TOP OF WASTE" LANDFORM "21-19620-FRSKINE PARK DESN 20190314.dwg"
- 4. INTERNAL LANDFILL GAS INFRASTRUCTURE TAKEN FROM "RE-ERSKINE-001 ERSKINE

- IN IERNONL DANDFILL GAS INFRAS TRUCTURE TAKEN FROM RESEARCHEOUT_ERSONINE.
 BY AND POSITIONED MANUALLY USING AERILA PHOTOGRAPHY, ACCURACY + 5 sm
 EXTERNAL LANDFILL GAS INFRASTRUCTURE DIGITIZED FROM DIPO PDF "DBYD essement maps pdf" SURVEYOR REF et 1178/3514 00.04FURE DATE 2014-07-01. ACCURACY + 5 sm
 INFERRED WASTE BOUNDARY/EDGE OF SIDELINER TAKEN FROM "SS17375_INFERRED EDGE OF SIDELINER (2020 204) _ 3D LINES, avg"
- EXISTING STORMWATER DRAINAGE SURVEY TAKEN FROM FILE "2220det06.dwg" (KEATLEY
- SURVEYORS 22(99/19)
 EXISTING GAS MONITORING BORE LOCATIONS PROVIDED BY CLIENT "2220DET01.DWG" PROPOSED NEW LANDILL GAS TRANSFER PIPELINE PROVIDED BY CLIENT "2220 GAS EASEMENT.DWG"





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Boros	0	2020-08-28	ISSUED FOR CONSTRUCTION	LP	JF	GRS	GRS
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ENVIROGUARD PTY LTD



SYDNEY OFFICE LEVEL 8, 40 MOUNT STREET NORTH SYDNEY, NSW 2060 [+61] (2) 9478 3900 www.golder.com

COVER SHEET

ERSKINE PARK LANDFILL MSE WALL DESIGN

19135652 027 0 001

GENERAL NOTES

- THESE NOTES APPLY TO ALL PROJECT DRAWINGS IN THE SET UNLESS OTHERWISE NOTED.
- G2. THE CONTRACTOR IS TO VERIFY ALL SETTING OUT DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION.
- G3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION AND REMOVAL OF ALL TEMPORARY WORKS NEEDED TO ENABLE THE PERMANENT WORKS TO BE CONSTRUCTED. THIS INCLUDES THE DEVELOPMENT OF DESIGN DOCUMENTATION AND WORK METHOD STATEMENTS TO DEMONSTRATE COMPLIANCE WITH STANDARD INDUSTRY PRACTICE (FOR EXAMPLE COMPLIANCE WITH STANDARDS AND GUIDELINES SUCH AS WORKING PLATFORMS FOR TRACKED PLANT BR470, AS4678). TEMPORARY WORKS MUST BE DESIGNED AND CONSTRUCTED TO NOT ADVERSELY AFFECT THE PERMANENT WORKS.
- G4. ALL PROPRIETARY PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE INDICATED IN THE DRAWINGS OR TECHNICAL SPECIFICATION.
- G5. ALL EXCAVATED SOILS MUST BE MANAGED AND/OR TREATED IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN.
- G6. A WORKING PLATFORM MAY BE REQUIRED TO FACILITATE EXCAVATION AND CONSTRUCTION OF THE REINFORCED SOIL WALL, WORKING PLATFORMS ARE TO BE DESIGNED BY "THE CONTRACTOR".
- G7 BEFORE COMMENCING ANY WORKS, THE CONTRACTOR SHALL:
- (I) DETERMINE THE EXTENT OF EXISTING UTILITY SURVEY AND INFORMATION.
- (II) OBTAIN CURRENT DIAL BEFORE YOU DIG PLANS AND INFORMATION BY TELEPHONING 1100 OR FAXING 1300 682 077 TO ASCERTAIN THE EXACT LOCATION OF UTILITIES.
- (III) MAKE ANY OTHER ENQUIRIES THAT THE CONTRACTOR CONSIDERS NECESSARY TO SATISFY ITSELF AS TO THE EXACT LOCATION OF UTILITY SERVICES.
- (IV) ENSURE THAT THE ADOPTED WORK METHOD WILL AVOID DAMAGE TO ALL UTILITIES.
- G8. FOR SPECIFICATIONS OF THE REINFORCED SOIL. LINER SUPPORTING FILL. REINFORCEMENT. DRAINAGE MATERIAL, AND OTHER MATERIALS REFER TO THE TECHNICAL SPECIFICATION - ERSKINE PARK MECHANICALLY STABILISED EARTH WALL. (19135652-025-S).
- G9. FOR FOUNDATION TREATMENT AND FOUNDATION PREPARATION, REFER TO THE TECHNICAL SPECIFICATION -ERSKINE PARK MECHANICALLY STABILISED EARTH WALL.
- G10. FOR THE GROUND AND GROUNDWATER CONDITIONS ALONG THE RETAINING WALL ALIGNMENT, REFER TO THE GEOTECHNICAL INVESTIGATION REPORT - ERSKINE PARK MECHANICALLY STABILISED EARTH WALL.

DESIGN

- D1. DESIGN STANDARDS:
 - DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES VOLUME I, PUBLICATION NO. FHWA-NHI-10-024, FEDERAL HIGHWAY ADMINISTRATION FHWA GEC 011 - VOLUME I.
 - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SEVENTH. EDITION, 2014.

 - AS 4678-2002 FARTH-RETAINING STRUCTURES
 - AS/NZS 1170.2:2002 STRUCTURAL ACTIONS PART 2 WIND ACTIONS ASCE PUBLICATION ASCE 7-05 MINIMUM LOAD DESIGN CRITERIA FOR BUILDINGS AND OTHER STRUCTURES.
- D2. THE UNIT WIGHT ASSUMED IN THE DESIGN FOR REINFORCED SOIL AND LINER SUPPORTING FILL IS 20 kN/m³.
- D3. FRICTION ANGLE (AT PEAK STATE) ASSUMED IN THE DESIGN FOR REINFORCED SOIL AND LINER SUPPORTING FILL IS 34 DEG AND 30 DEG. RESPECTIVELY
- D4 REFER TO TECHNICAL SPECIFICATION FOR THE STRENGTH AND STIFFNESS REQUIREMENTS OF THE REINFORCEMENT WITHIN REINFORCED SOIL AND LINER SUPPORTING FILL.
- D5. MAXIMUM FACING HEIGHT IS 600 mm.
- D6. DESIGN LIVE LOAD
 - LIVELOAD 20 kPa AT III S
 - LIVE LOAD 10 kPa AT SLS
 - . CONSTRUCTION LOAD 10 kPa
- D7. EARTHQUAKE LOAD (AS5100.2)
 - ACCELERATION COEFFICIENT = 0.08
 - SITE FACTOR (S) = 1.0
 - IMPORTANCE FACTOR (I) = 1.0
- D8. MSE WALL DESIGN LIFE = 100 YEARS
- D9 LOAD FACTORS
 - MAXIMUM HORIZONTAL EARTH PRESSURE FACTOR = 1.50
 - MINIMUM HORIZONTAL EARTH PRESSURE FACTOR = 0.90
 - MINIMUM VERTICAL EARTH PRESSURE FACTOR = 1.00
 - MAXIMUM VERTICAL EARTH PRESSURE FACTOR = 1.35
 - LIVE LOAD FACTOR = 1.75
 - LIVE LOAD FACTOR FOR EARTHQUAKE = 1.00

D10. RESISTANCE FACTOR

- SHEAR RESISTANCE BETWEEN REINFORCED SOIL AND FOUNDATION = 1.00
- BEARING RESISTANCE FACTOR = 0.65
- OVERALL STABILITY = 0.65 (LONG TERM), 0.75 (SHORT TERM) AND 0.90 (EARTHQUAKE)

LINER VERTICAL EXAGGERATION DETAILS

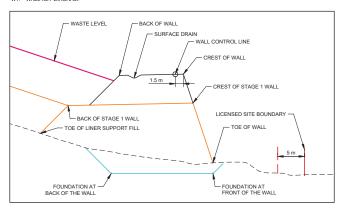
LINER MATERIALS HAVE BEEN EXAGGERATED ON ALL PLANS AS IN DETAIL BELOW



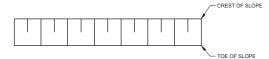
2. LINER MAY COVER PIPES AND MATERIALS ON DETAILS

WALL GEOMETRY

W1. WALL KEY DIAGRAM



W2 DIRECTION OF A SLOPE SHOULD BE IDENTIFIED IN PLANS AS BELOW:



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CONSTRUCTION

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ERSKINE PARK LANDFILL MSE WALL DESIGN

DESIGN NOTES

2 of 71 DRAWII 19135652 027 0 002

2020-08-28 ISSUED FOR CONSTRUCTION GRS YYYY-MM-DD DESCRIPTION DESIGNED PREPARED REVIEWED APPROVED

