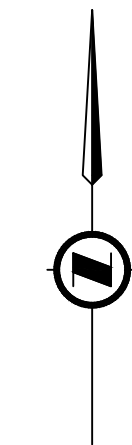
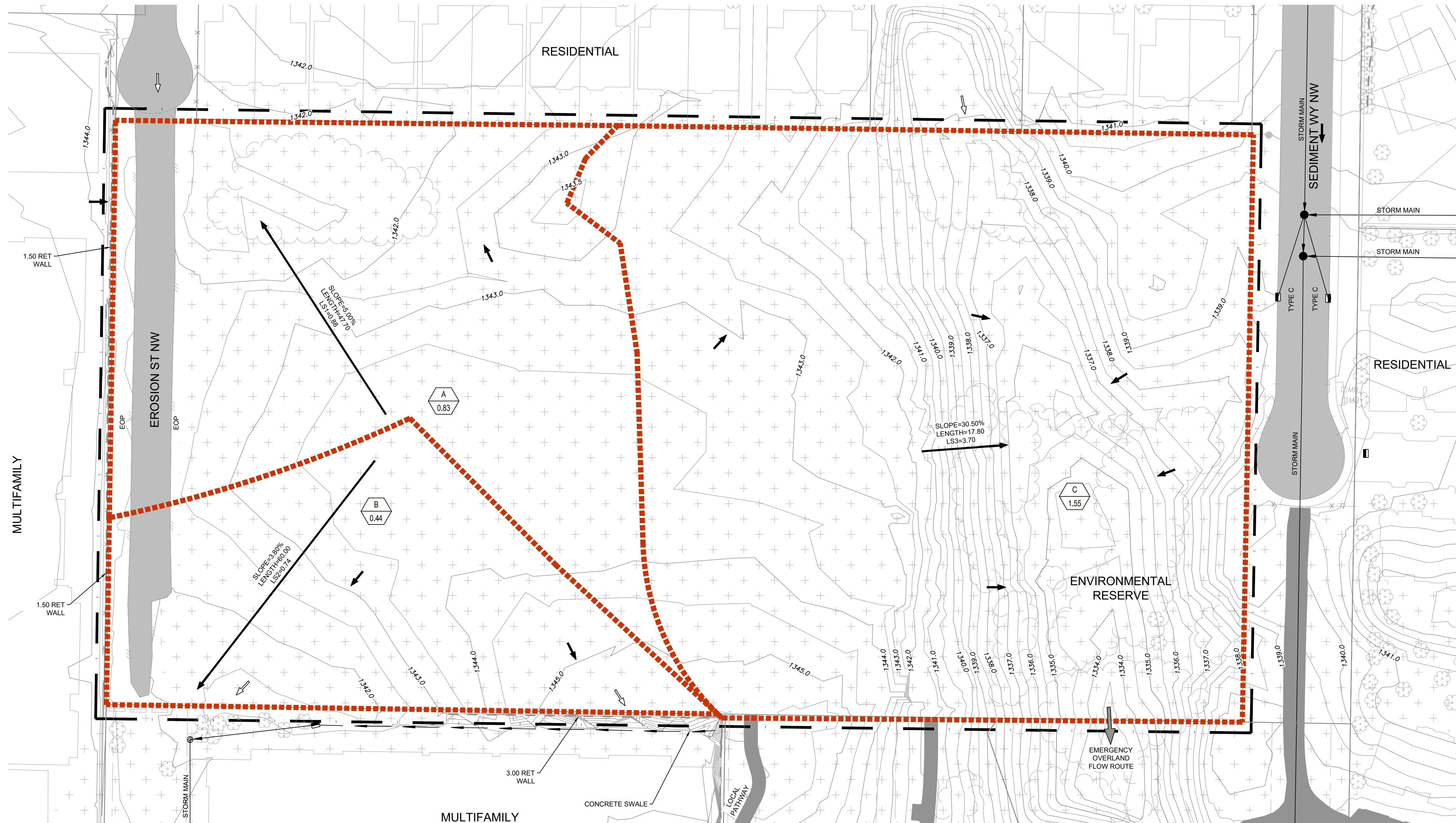


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NOTES
 1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE

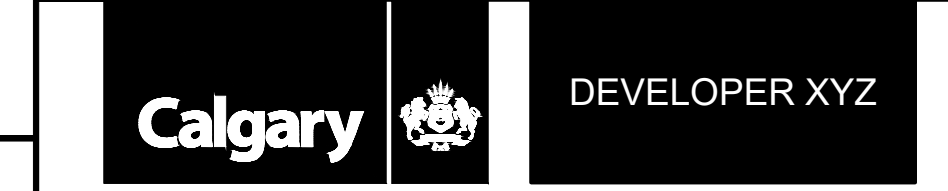
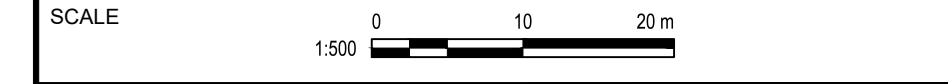


ESC REVISION TABLE

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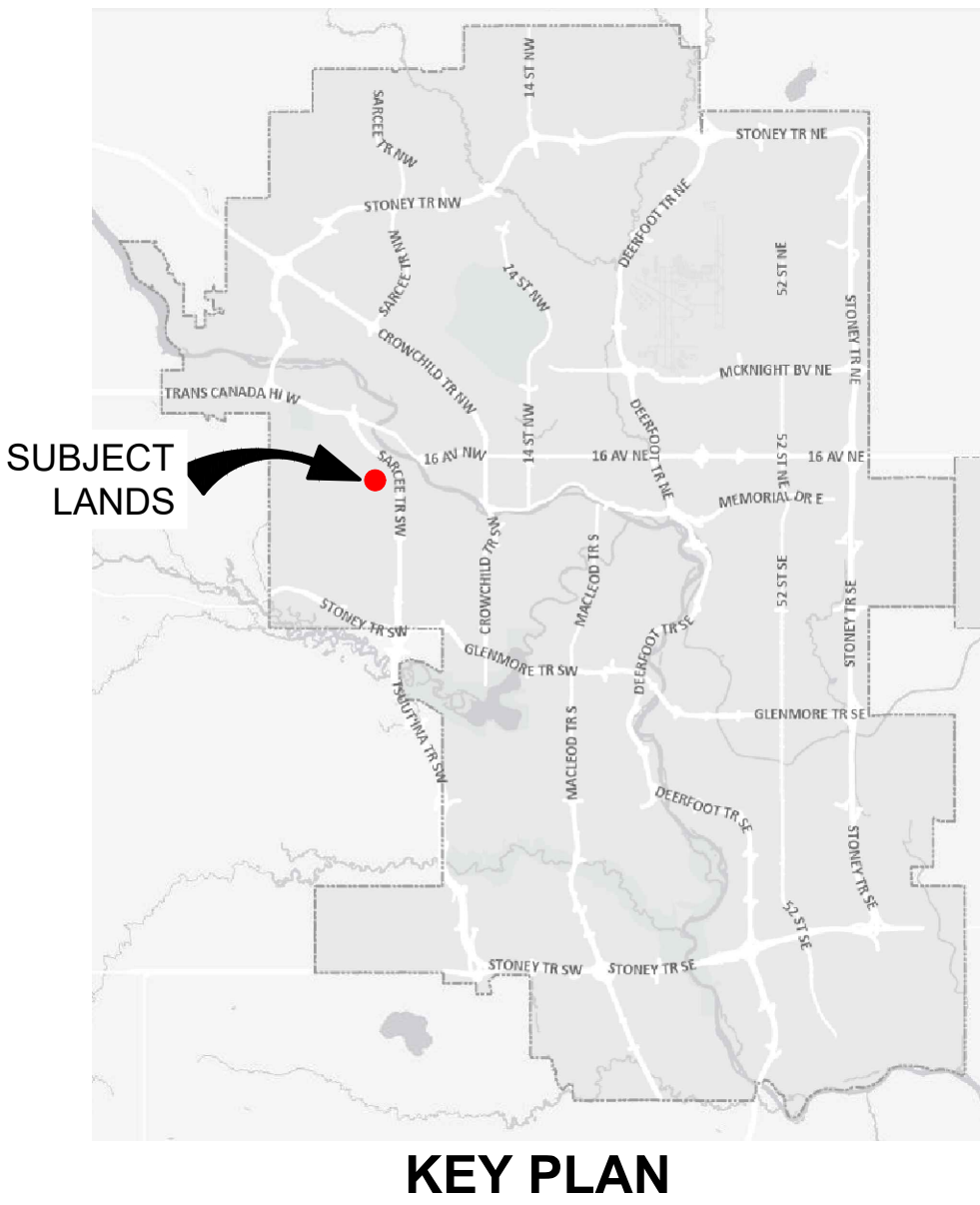
DESIGNED	BY	DATE
DRAWN	RCM	2018-07-09
CHECKED	LH	2018-07-09
	RG	2018-09-01



PROJECT
PROJECT XYZ
 SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

SHEET TITLE
BEFORE STRIPPING & GRADING

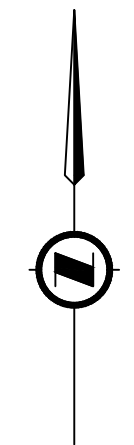
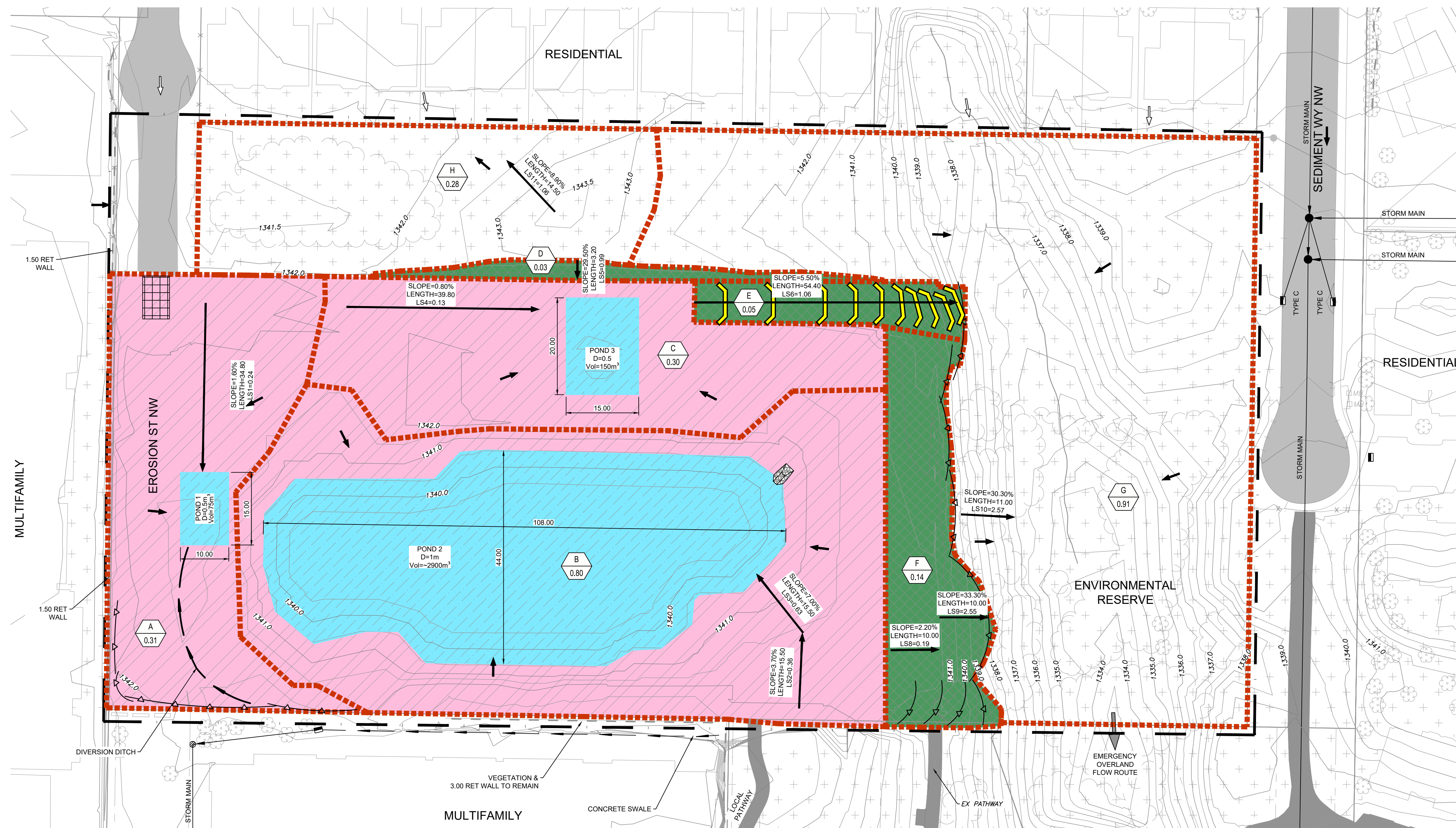
FILE NO. 12345678C-101.dwg	ENG DWG NO.	
SHEET ID. ESC1	SHEET NO.	
DRAWN	DATE (YYYY-MM-DD)	PROFILE NO.



LEGEND

	CONSTRUCTION BOUNDARY		CATCH BASIN
	EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)		STORM MAIN
	EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)		TYPE 5A MANHOLE
	DRAINAGE DIVIDES		GRATED TOP MANHOLE
	DRAINAGE DIVIDE LABEL DRAINAGE DIVIDE AREA IN ha SOIL ERODIBILITY CLASS (WHERE APPLICABLE)		PAVEMENT
	OVERLAND FLOW DIRECTION		CONCRETE WALKS / ASPHALT PATHWAY
	RUN-ON / RUN-OFF LOCATIONS		VEGETATION
	EMERGENCY OVERLAND FLOW ROUTE		TREES - INDIVIDUAL
	CONCRETE SWALE		TREES - OUTLINE
			RETAINING WALL

FILE: D:\LERC\ENGINEERING\CITY OF CALGARY - DOCUMENTS\DESIGN\DESIGN SHEET FILES\CONSTRUCTION DRAWINGS\ESC2 - DURING STRIPPING AND GRADING\ESC2 - DURING STRIPPING AND GRADING\LEC.DWG | DATE: April 19, 2022 9:24:32 AM



NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE



NAD 83
COORDINATES

ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD
0	ISSUED FOR ESC REPORT APPROVAL	2018-11-30	RCM	RG

LEGEND

	CONSTRUCTION BOUNDARY		PAVEMENT
	EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)		CONCRETE WALKS / ASPHALT PATHWAY
	EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)		VEGETATION
	DRAINAGE DIVIDES		HYDROMULCH (200.1.4)
	DRAINAGE DIVIDE LABEL DRAINAGE DIVIDE AREA IN ha SOIL ERODIBILITY CLASS (WHERE APPLICABLE)		SURFACE ROUGHENING (200.2.5)
	OVERLAND FLOW DIRECTION		SEDIMENT TRAP (200.2.2)
	RUN-ON / RUN-OFF LOCATIONS		STABILIZED GRAVEL ACCESS (200.3.1)
	EMERGENCY OVERLAND FLOW ROUTE		SILT FENCE (200.2.6)
	CATCH BASIN		TREES - INDIVIDUAL
	STORM MAIN		TREES - OUTLINE
	TYPE 5A MANHOLE		RETAINING WALL
	GRATED TOP MANHOLE		CONCRETE SWALE
	STABILIZED OVERFLOW		DIVERSION DITCH
			12' STRAW WATTLE (200.2.1)

DESIGNED	BY	DATE
DRAWN	RCM	2018-07-09
CHECKED	LH	2018-07-09
SCALE	RG	2018-09-01

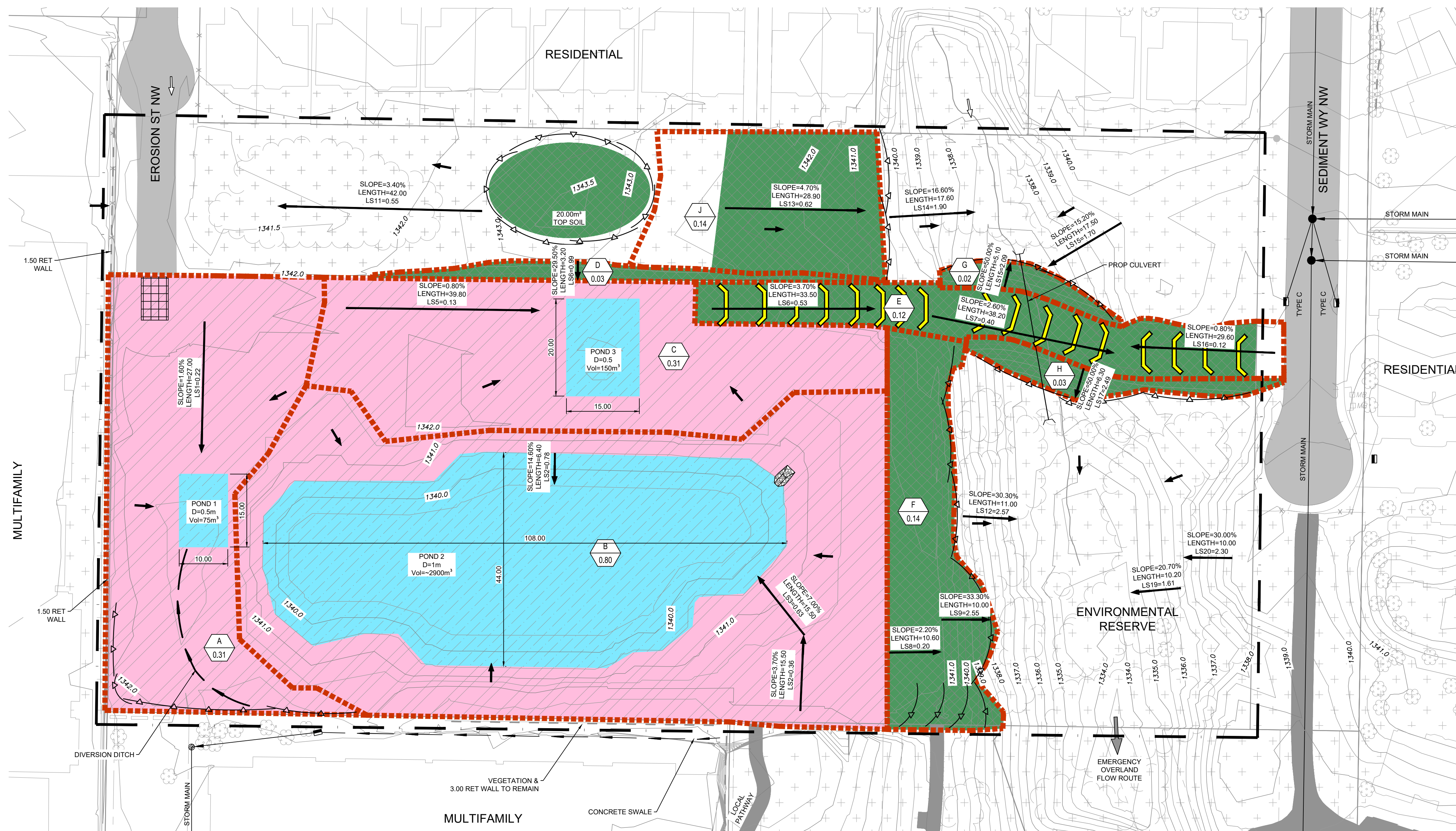


PROJECT
PROJECT XYZ

SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

SHEET TITLE WATER MANAGEMENT PLAN & ROUGH GRADING	
FILE NO. 12345678C-101.dwg	ENG DWG NO.
SHEET ID. ESC2	SHEET NO. 002
BY	DATE (YYYY-MM-DD)
DRAWN	PROFILE NO.

FILE: D:\LBC\ENGINEERING\CITY OF CALGARY - DOCUMENTS\CAD STANDARDS\DESIGN\FILES\CONSTRUCTION DRAWINGS\ESC3 - POST STRIPPING AND GRADING\BC.DWG | DATE: April 19, 2022 9:25:29 AM



NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE



NAD 83
COORDINATES

ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD
0	ISSUED FOR ESC REPORT APPROVAL	2018-11-30	RCM	RG

DESIGNED	BY	DATE (YYYY-MM-DD)
RCM		2018-07-09
DRAWN	BY	DATE (YYYY-MM-DD)
LH		2018-07-09
CHECKED	BY	DATE (YYYY-MM-DD)
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PROJECT: **PROJECT XYZ**
SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

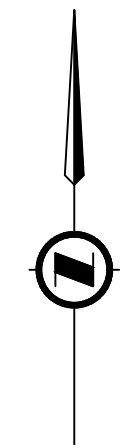
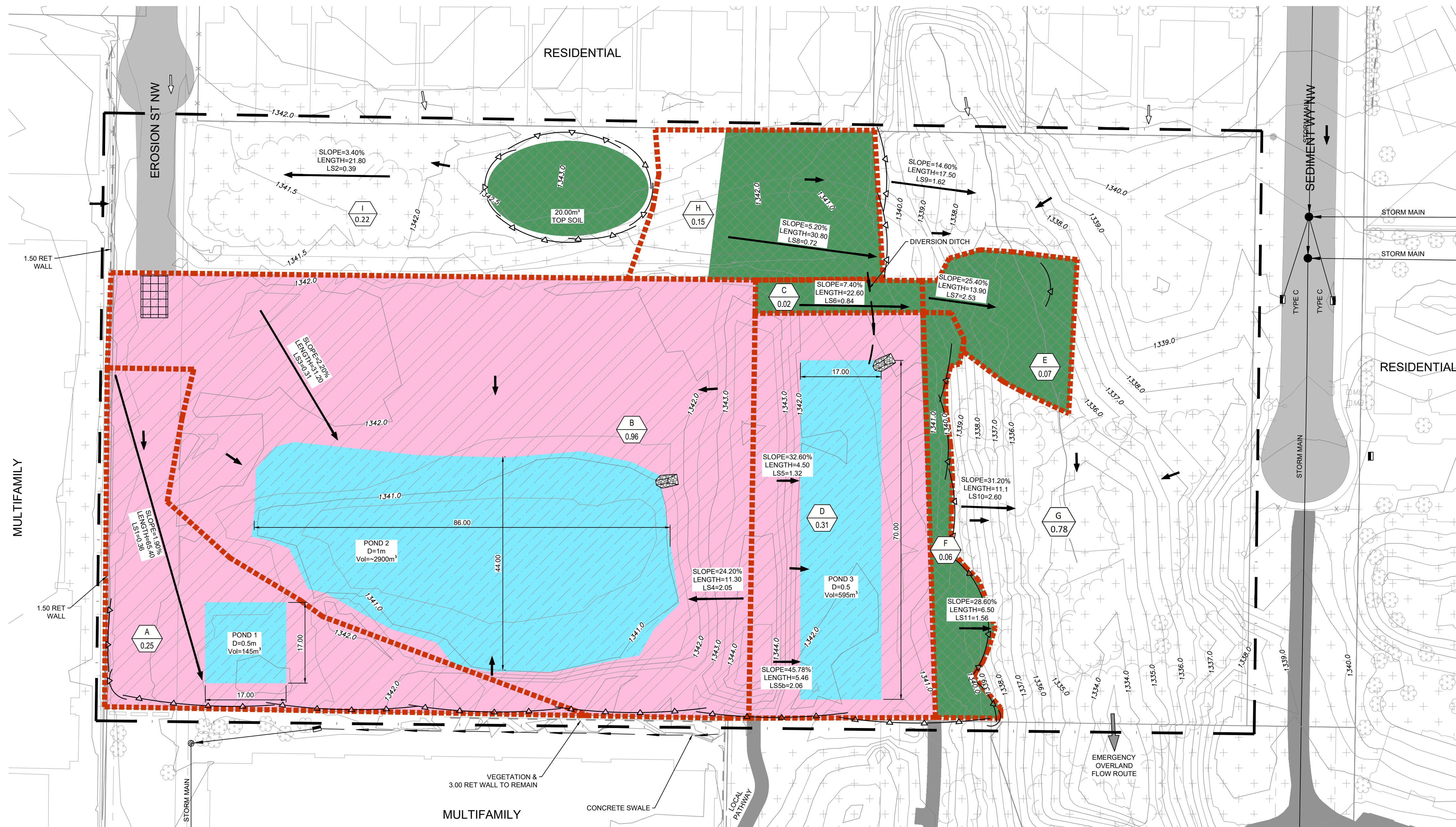
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FILE NO. 12345678C-101.dwg	ENG DWG NO.	
SHEET ID. ESC3	SHEET NO.	
BY	DATE (YYYY-MM-DD)	PROFILE NO.

LEGEND

	CONSTRUCTION BOUNDARY		PAVEMENT
	EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)		CONCRETE WALKS / ASPHALT PATHWAY
	EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)		VEGETATION
	DRAINAGE DIVIDES		HYDROMULCH (200.1.4)
	DRAINAGE DIVIDE LABEL		SURFACE ROUGHENING (200.2.5)
	DRAINAGE DIVIDE AREA IN ha		SEDIMENT TRAP (200.2.2)
	SOIL ERODIBILITY CLASS (WHERE APPLICABLE)		STABILIZED GRAVEL ACCESS (200.3.1)
	OVERLAND FLOW DIRECTION		SILT FENCE (200.2.6)
	RUN-ON / RUN-OFF LOCATIONS		TREES - INDIVIDUAL
	EMERGENCY OVERLAND FLOW ROUTE		TREES - OUTLINE
	CATCH BASIN		RETAINING WALL
	STORM MAIN		CONCRETE SWALE
	TYPE 5A MANHOLE		DIVERSION DITCH
	GRATED TOP MANHOLE		12' STRAW WATTLE (200.2.1)
	CULVERT		
	STABILIZED OVERFLOW		

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NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE

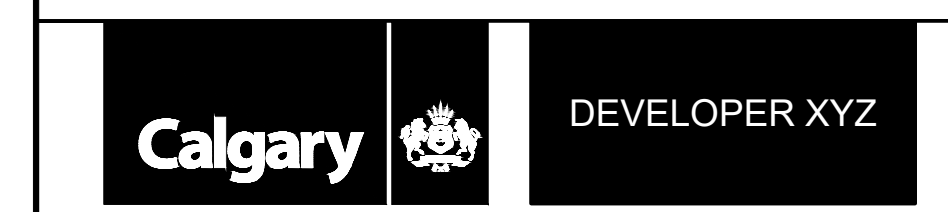


NAD 83
COORDINATES

ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD
0	ISSUED FOR ESC REPORT APPROVAL	2018-11-30	RCM	RG

DESIGNED	BY	DATE (YYYY-MM-DD)
	RCM	2018-07-09
DRAWN	BY	DATE (YYYY-MM-DD)
	LH	2018-07-09
CHECKED	BY	DATE (YYYY-MM-DD)
	RG	2018-09-01



PROJECT: **PROJECT XYZ**

SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

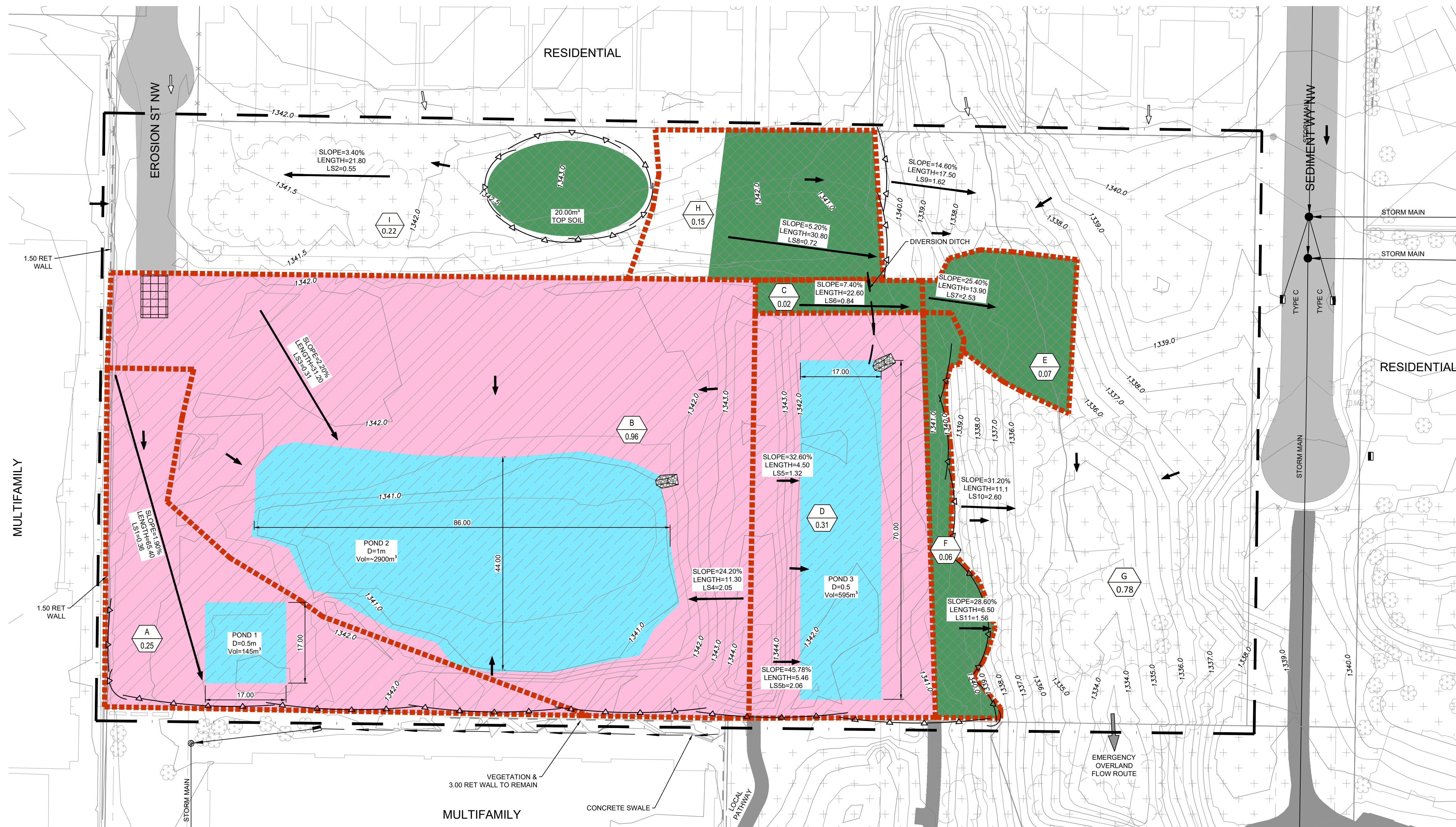
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FILE NO.	12345678C-101.dwg	ENG DWG NO.	
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BY		DATE (YYYY-MM-DD)	PROFILE NO.

LEGEND

	CONSTRUCTION BOUNDARY		PAVEMENT
	EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)		CONCRETE WALKS / ASPHALT PATHWAY
	EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)		VEGETATION
	DRAINAGE DIVIDES		HYDROMULCH (200.1.4)
	DRAINAGE DIVIDE LABEL DRAINAGE DIVIDE AREA IN ha SOIL ERODIBILITY CLASS (WHERE APPLICABLE)		SURFACE ROUGHENING (200.2.5)
	OVERLAND FLOW DIRECTION		SEDIMENT TRAP (200.2.2)
	RUN-ON / RUN-OFF LOCATIONS		STABILIZED GRAVEL ACCESS (200.3.1)
	EMERGENCY OVERLAND FLOW ROUTE		SILT FENCE (200.2.6)
	CATCH BASIN		TREES - INDIVIDUAL
	STORM MAIN		TREES - OUTLINE
	TYPE 5A MANHOLE		RETAINING WALL
	GRADED TOP MANHOLE		CONCRETE SWALE
	STABILIZED OVERFLOW		DIVERSION DITCH

INSTALL HYDROMULCH AND SEED IN AREAS A, B+D IF THE PERIOD OF INACTIVITY ON THESE LOCATIONS WILL REACH 365 DAYS.

FILE: D:\LBC\ENGINEERING\CITY OF CALGARY - DOCUMENTS\ESCS CAD STANDARDS\DESIGN\PROJECT FILES\CONSTRUCTION DRAWINGS\ESCS - BEFORE DEVELOPMENT\LBC.DWG | DATE: April 19, 2022 9:27:08 AM



NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE



NAD 83
COORDINATES

ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD
0	ISSUED FOR ESC REPORT APPROVAL	2018-11-30	RCM	RG

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	RCM	2018-07-09
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CHECKED	BY	DATE (YYYY-MM-DD)
	RG	2018-09-01



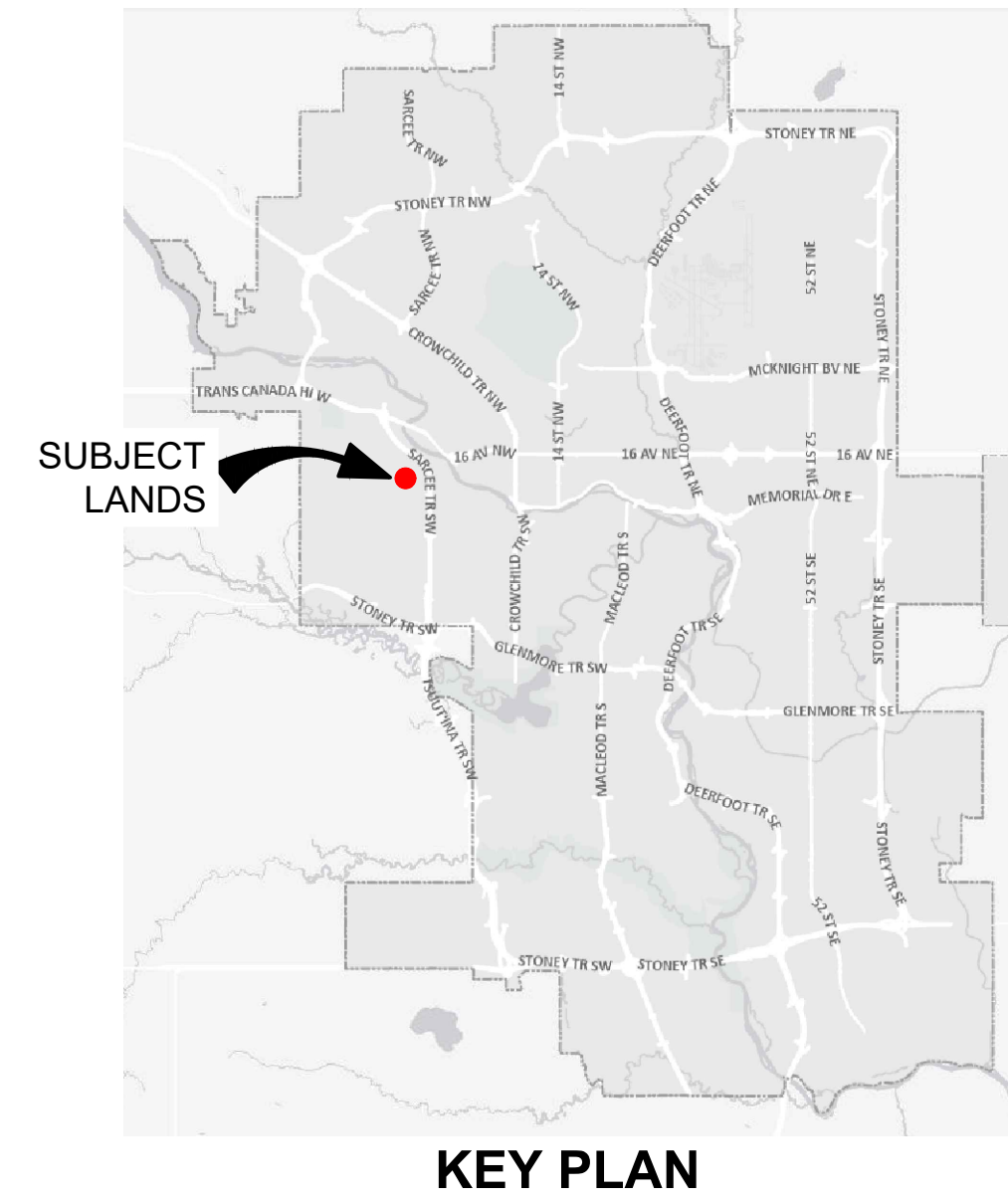
PROJECT XYZ

SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

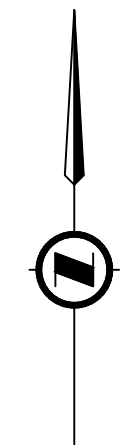
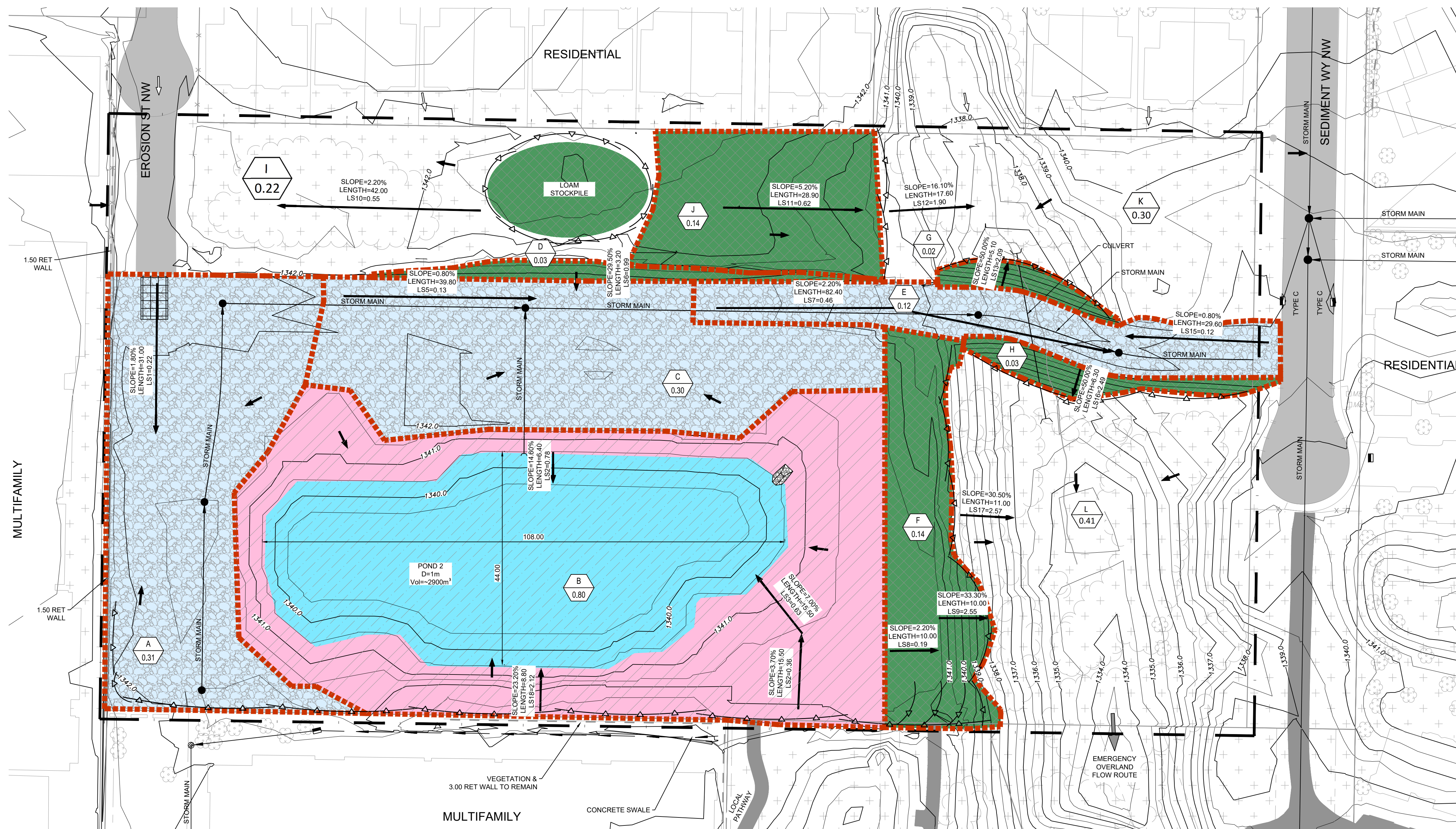
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BEFORE DEVELOPMENT	
FILE NO.	ENG DWG NO.
12345678C-101.dwg	
SHEET ID.	SHEET NO.
ESC5	
BY	DATE (YYYY-MM-DD)
DRAWN	PROFILE NO.

LEGEND

	CONSTRUCTION BOUNDARY		PAVEMENT
	EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)		CONCRETE WALKS / ASPHALT PATHWAY
	EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)		VEGETATION
	DRAINAGE DIVIDES		HYDROMULCH (200.1.4)
	DRAINAGE DIVIDE LABEL		SURFACE ROUGHENING (200.2.5)
	DRAINAGE DIVIDE AREA IN ha		SEDIMENT TRAP (200.2.2)
	OVERLAND FLOW DIRECTION		STABILIZED GRAVEL ACCESS (200.3.1)
	RUN-ON / RUN-OFF LOCATIONS		SILT FENCE (200.2.6)
	EMERGENCY OVERLAND FLOW ROUTE		TREES - INDIVIDUAL
	CATCH BASIN		TREES - OUTLINE
	STORM MAIN		RETAINING WALL
	TYPE 5A MANHOLE		CONCRETE SWALE
	GRADED TOP MANHOLE		DIVERSION DITCH
	STABILIZED OVERFLOW		



FILE: D:\LERC\ENGINEERING\CITY OF CALGARY - DOCUMENTS\DESIGN\PROJECTS\CONSTRUCTION\DRAWINGS\ESC6 - POST UNDERGROUND\BC.DWG DATE: April 10, 2022 9:28:35 AM



NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE



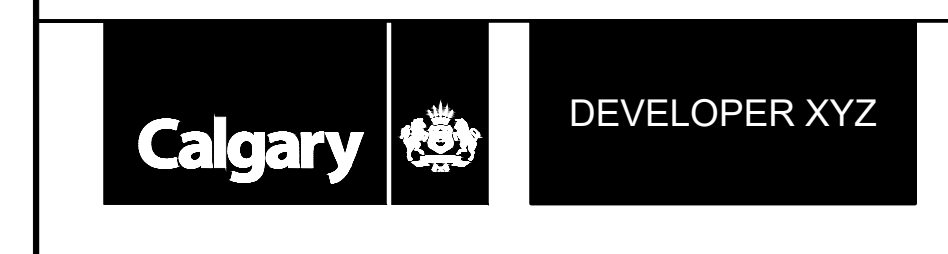
NAD 83
COORDINATES

ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD
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DESIGNED	BY	DATE
DRAWN	LH	2018-07-09
CHECKED	RG	2018-09-01

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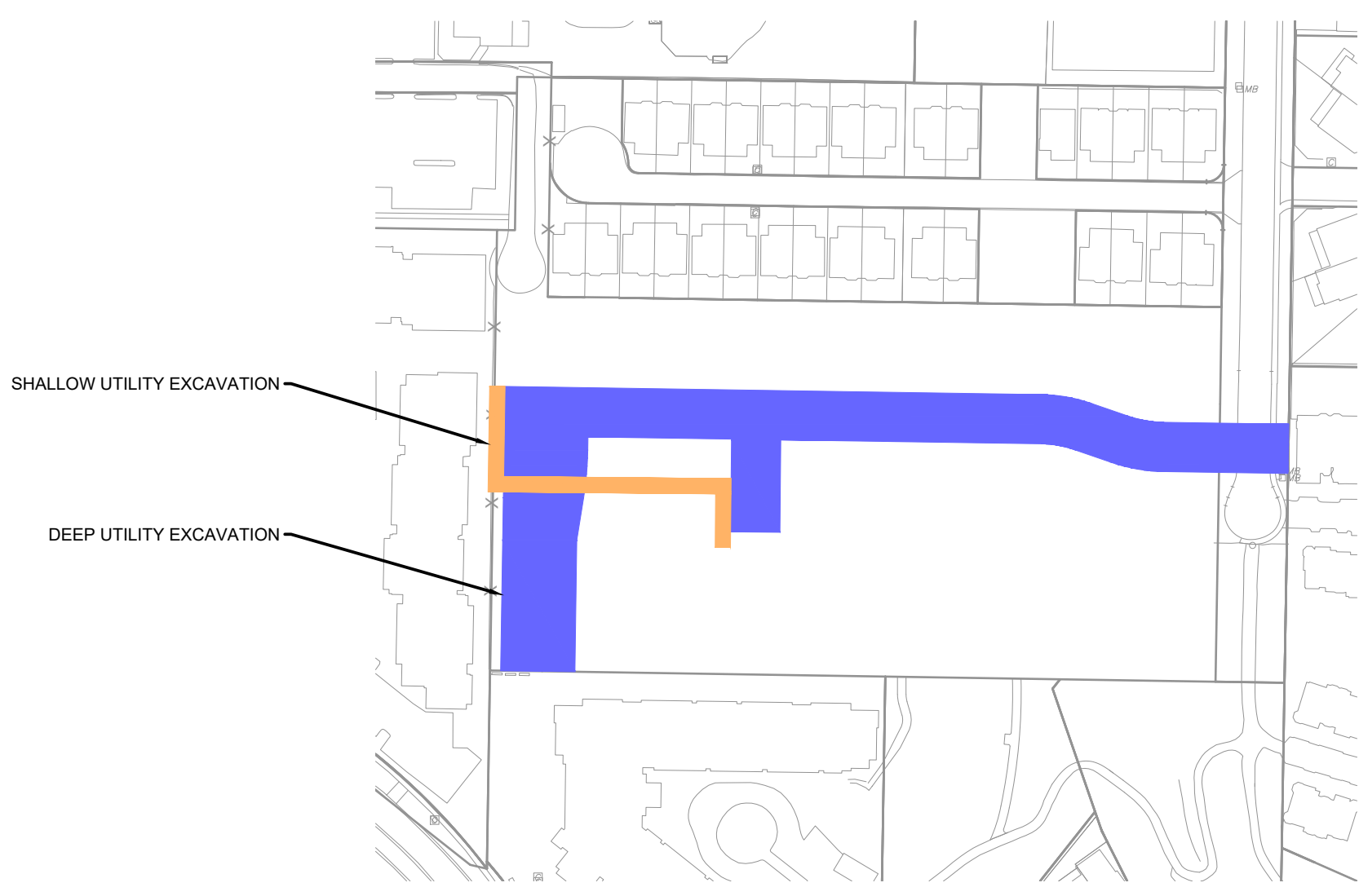


PROJECT
PROJECT XYZ
SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

SHEET TITLE
WATER MANAGEMENT & UNDERGROUND WORK

FILE NO. 12345678C-101.dwg	ENG DWG NO.
SHEET ID. ESC6	SHEET NO.

DRAWN	BY	DATE (YYYY-MM-DD)	PROFILE NO.
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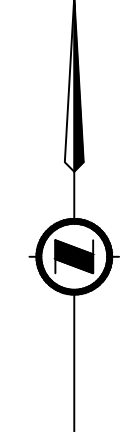
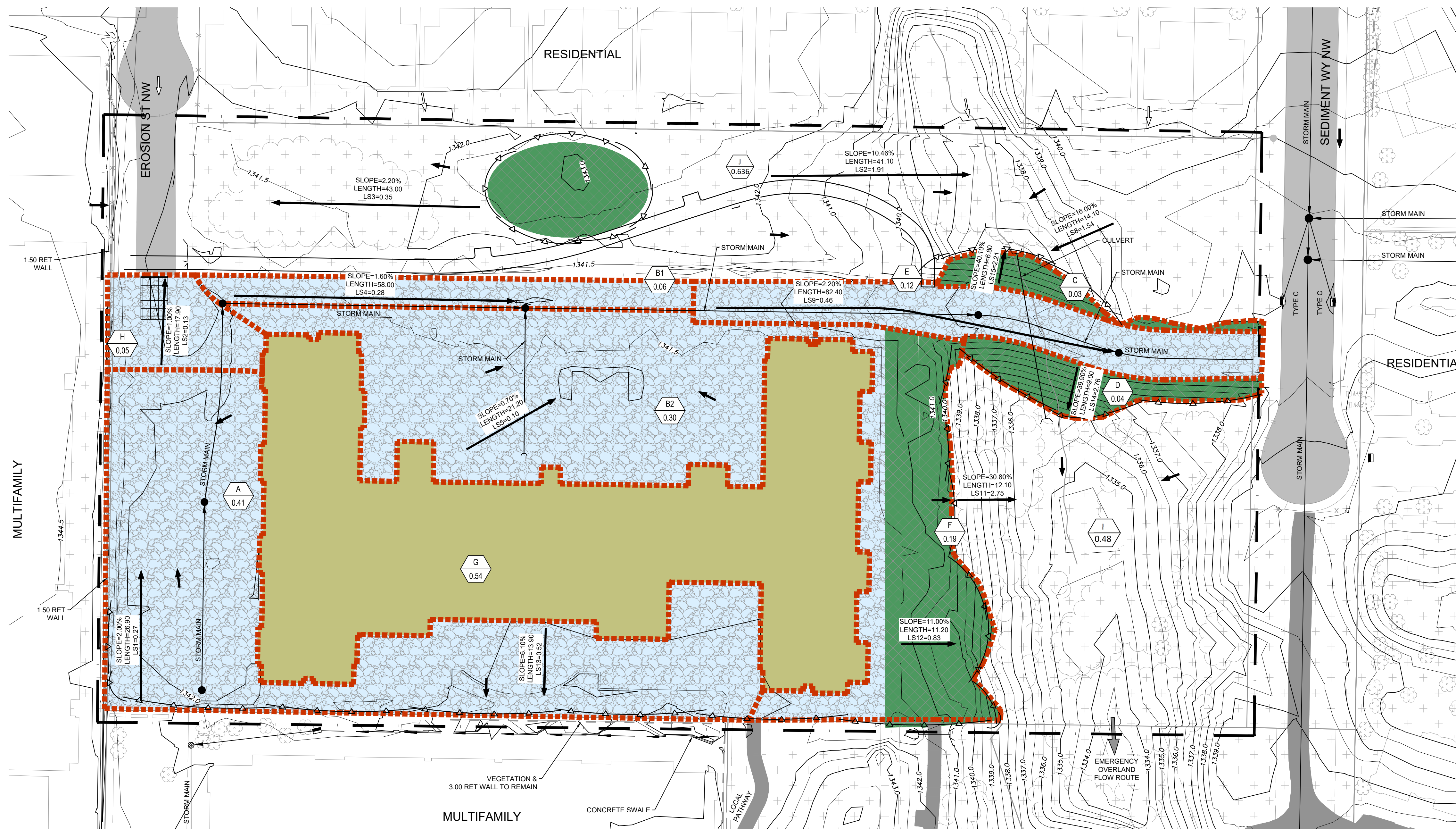


UTILITY KEY PLAN

LEGEND

	CONSTRUCTION BOUNDARY		STABILIZED OVERFLOW
	EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)		PAVEMENT
	EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)		CONCRETE WALKS / ASPHALT PATHWAY
	DRAINAGE DIVIDES		VEGETATION
	DRAINAGE DIVIDE LABEL (DRAINAGE DIVIDE AREA IN ha SOIL ERODIBILITY CLASS (WHERE APPLICABLE))		HYDROMULCH (200.1.4)
	OVERLAND FLOW DIRECTION		SURFACE ROUGHENING (200.2.5)
	RUN-ON / RUN-OFF LOCATIONS		SEDIMENT TRAP (200.2.2)
	EMERGENCY OVERLAND FLOW ROUTE		CLEAN WASHED GRAVEL (200.1.6)
	CATCH BASIN		STABILIZED GRAVEL ACCESS (200.3.1)
	STORM MAIN		SILT FENCE (200.2.6)
	TYPE 5A MANHOLE		TREES - INDIVIDUAL
	GRATED TOP MANHOLE		TREES - OUTLINE
	CULVERT		RETAINING WALL
			CONCRETE SWALE

FILE: D:\LBC ENGINEERING\CITY OF CALGARY - DOCUMENTS\CAD STANDARDS\DESIGN\SHEET FILES\CONSTRUCTION DRAWINGS\AD-ESC7 - ABOVE GROUND WORK\LBC.DWG | DATE: April 19, 2022 9:29:47 AM



NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE



NAD 83
COORDINATES

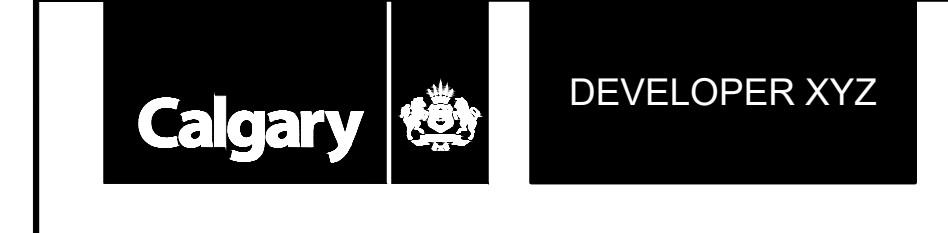
ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD
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PERMIT	SEAL
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DESIGNED	BY	DATE (YYYY-MM-DD)
DRAWN	LH	2018-07-09
CHECKED	RG	2018-09-01

SCALE 1:500 0 10 20 m



PROJECT
PROJECT XYZ
SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

SHEET TITLE
ABOVE GROUND WORK

FILE NO.
12345678C-101.dwg

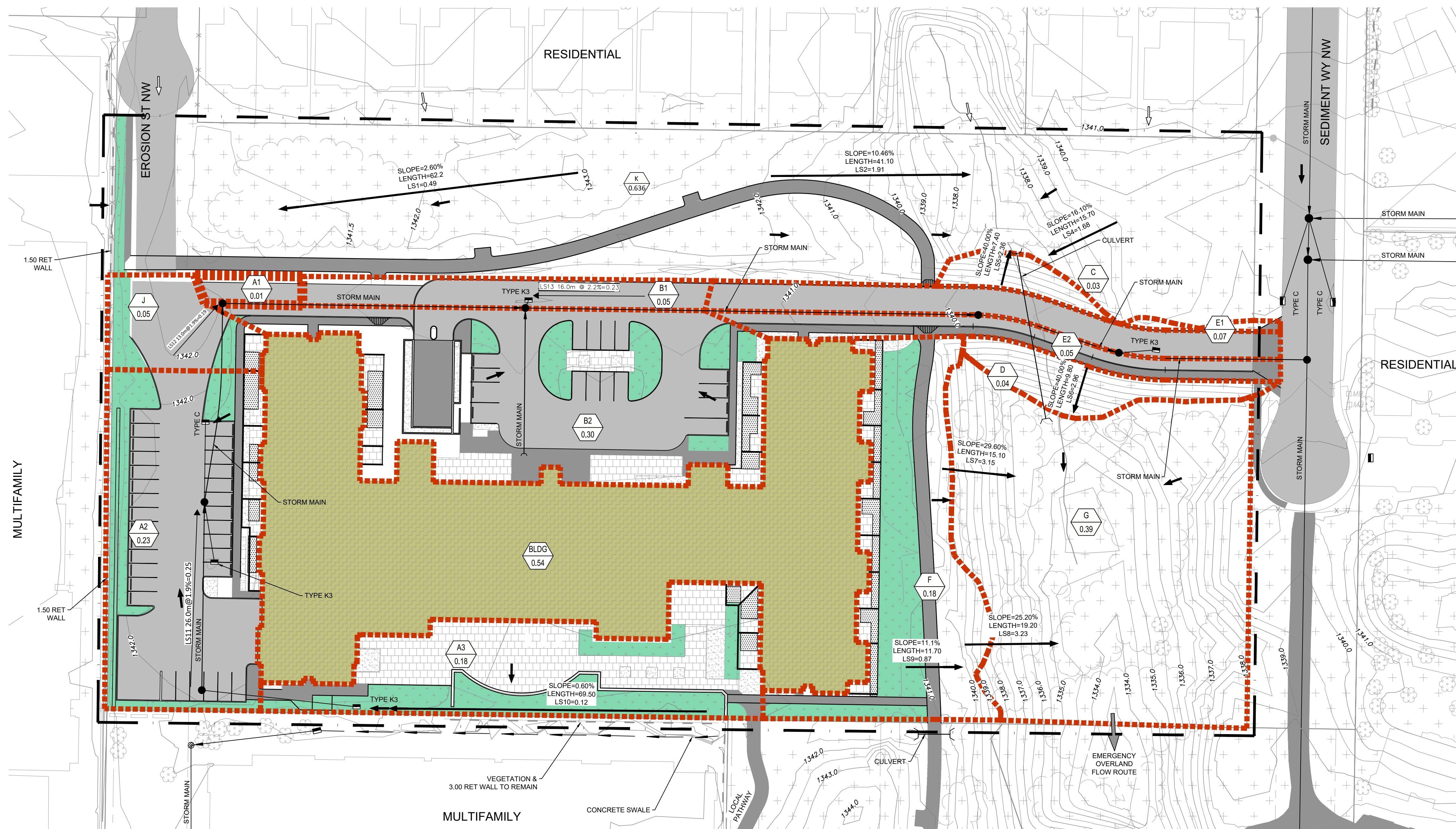
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ESC7

BY DATE (YYYY-MM-DD) PROFILE NO.

LEGEND

	CONSTRUCTION BOUNDARY		PAVEMENT
	EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)		CONCRETE WALKS / ASPHALT PATHWAY
	EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)		VEGETATION
	DRAINAGE DIVIDES		HYDROMULCH (200.1.4)
	DRAINAGE DIVIDE LABEL DRAINAGE DIVIDE AREA IN ha SOIL ERODIBILITY CLASS (WHERE APPLICABLE)		SEDIMENT TRAP (200.2.2)
	OVERLAND FLOW DIRECTION		CLEAN WASHED GRAVEL (200.1.6)
	RUN-ON / RUN-OFF LOCATIONS		STABILIZED GRAVEL ACCESS (200.3.1)
	EMERGENCY OVERLAND FLOW ROUTE		CONCRETE PAD
	CATCH BASIN		SILT FENCE (200.2.6)
	STORM MAIN		TREES - INDIVIDUAL
	TYPE 5A MANHOLE		TREES - OUTLINE
	GRATED TOP MANHOLE		RETAINING WALL
	CULVERT		CONCRETE SWALE

FILE: D:\LBC ENGINEERING\CITY OF CALGARY - DOCUMENTS\DESIGN\PROJECT FILES\CONSTRUCTION DRAWINGS\ESC - DEVELOPMENT COMPLETION-BC.DWG | DATE: April 19, 2022 9:32:10 AM



NOTES

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CITY OF CALGARY OFFICE USE



NAD 83
COORDINATES

ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD
0	ISSUED FOR ESC REPORT APPROVAL	2018-11-30	RCM	RG

DESIGNED	BY	DATE (YYYY-MM-DD)
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DRAWN	BY	DATE (YYYY-MM-DD)
	LH	2018-07-09
CHECKED	BY	DATE (YYYY-MM-DD)
	RG	2018-09-01

SCALE: 1:500

PROJECT: **PROJECT XYZ**

SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

SHEET TITLE: **DEVELOPMENT COMPLETION**

FILE NO. 12345678C-101.dwg	ENG DWG NO.	
SHEET ID. ESC8	SHEET NO.	
BY	DATE (YYYY-MM-DD)	PROFILE NO.

LEGEND

	CONSTRUCTION BOUNDARY		PAVEMENT
	EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)		CONCRETE WALKS / ASPHALT PATHWAY
	EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)		VEGETATION
	DRAINAGE DIVIDES		TURF SOD (200.1.2)
	DRAINAGE DIVIDE LABEL DRAINAGE DIVIDE AREA IN ha SOIL ERODIBILITY CLASS (WHERE APPLICABLE)		BUILDING
	OVERLAND FLOW DIRECTION		STONE PAVERS
	RUN-ON / RUN-OFF LOCATIONS		TURF SOD (200.1.2) PLANTER BEDS - RAISED OR WITH BORDER THAT WILL CONTAIN CONTENTS
	EMERGENCY OVERLAND FLOW ROUTE		TREES - INDIVIDUAL
	CATCH BASIN		TREES - OUTLINE
	STORM MAIN		RETAINING WALL
	TYPE SA MANHOLE		CONCRETE SWALE
	GRATED TOP MANHOLE		
	CULVERT		

Add New Sheet

RUSLE Calculations

Drawing Code: ESC1 Before Stripping and Grading														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													Site Erosion Potential	
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifer, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9
A	LS1	0.83	5	47.7	Vegetation	320	0.048	0.88	0.01	1	13.573	0.136	0.113	11.3
B	LS2	0.44	3.8	60	Vegetation	320	0.048	0.74	0.01	1	11.367	0.114	0.050	5.0
C	LS3	1.55	30.5	17.8	Vegetation	320	0.048	3.70	0.01	1	56.860	0.569	0.881	88.1
Add Row														
Overall Site Size		2.82										Total Soil Loss Estimates	1.044	104.4
Supplemental Information		Vegetation is grass with no appreciable canopy and 80% ground cover, see photos #12 and #13.												

This calculator uses the LS3 table from Agriculture and Agri-Food Canada's RUSLEFAC Revised Universal Soil Loss Equation for Application in Canada (2002) to determine an LS value from a given slope grade (%) and length (meters). The LS3 table was used as it is the Topographic Factor table that is recommended by Agriculture and Agri-Food Canada for use on construction projects that have a high ratio of rill: inter-rill erosion.

Add New Sheet

RUSLE Calculations

Drawing Code:														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													Site Erosion Potential	
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifier, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9
A	LS1	0.31	1.6	34.8	Surface roughening - 0.9 Sediment Pond - 0.6	320	0.048	0.24	1	0.54	3.646	1.969	0.610	1.1
B	LS3	0.80	7	15.5	Surface roughening - 0.9 Sediment Pond - 0.1	320	0.048	0.63	1	0.09	9.626	0.866	0.693	7.7
C	LS4	0.30	0.8	39.8	Surface roughening - 0.9 Sediment Pond - 0.3	320	0.048	0.13	1	0.27	2.038	0.550	0.165	0.6
D	LS5	0.03	29.5	3.2	Hydromulch - 0.01	320	0.048	0.99	0.01	1	15.181	0.152	0.005	0.5
E	LS6	0.05	5.5	54.4	Hydromulch - 0.01 Straw Wattle - 0.6	320	0.048	1.06	0.01	0.6	16.261	0.098	0.005	0.8
F	LS9	0.14	33.3	10	Hydromulch - 0.01	320	0.048	2.55	0.01	1	39.091	0.391	0.055	5.5
H	LS11	0.28	8.9	14.5	Vegetation	320	0.048	0.75	0.01	1	11.445	0.114	0.032	3.2
G	LS10	0.91	30.3	11	Vegetation	320	0.048	2.51	0.01	1	38.536	0.385	0.351	35.1
Add Row														
Overall Site Size		2.82										Total Soil Loss Estimates	1.915	54.5
Supplemental Information		Area A, sediment POND 1 will overflow to AREA B, sediment POND 2 so 250 cubic meters/ha is met.												

Add New Sheet

RUSLE Calculations

Drawing Code: ESC3														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													Site Erosion Potential	
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifer, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9
A	LS1	0.31	1.6	34.8	Surface roughening - 0.9 Sediment Pond - 0.6	320	0.048	0.24	1	0.54	3.646	1.969	0.610	1.1
B	LS3	0.80	7	15.5	Surface roughening - 0.9 Sediment Pond - 0.1	320	0.048	0.63	1	0.09	9.626	0.866	0.693	7.7
C	LS5	0.30	0.8	39.8	Surface roughening - 0.9 Sediment Pond - 0.3	320	0.048	0.13	1	0.27	2.038	0.550	0.165	0.6
D	LS6	0.03	29.5	3.2	Hydromulch - 0.01	320	0.048	0.99	0.01	1	15.181	0.152	0.005	0.5
E	LS7	0.12	2.6	38.2	Hydromulch - 0.01 Straw Wattle - 0.6	320	0.048	0.40	0.01	0.6	6.087	0.037	0.004	0.7
F	LS9	0.14	33.3	10	Hydromulch - 0.01	320	0.048	2.55	0.01	1	39.091	0.391	0.055	5.5
G	LS15	0.02	50	5.1	Hydromulch - 0.01	320	0.048	2.09	0.01	1	32.156	0.322	0.006	0.6
H	LS17	0.03	50	6.3	Hydromulch - 0.01	320	0.048	2.49	0.01	1	38.270	0.383	0.011	1.1
I	LS12	0.93	30.3	11	Vegetation	320	0.048	2.51	0.01	1	38.536	0.385	0.358	35.8
J	LS11	0.14	3.4	42	Vegetation	320	0.048	0.55	0.01	1	8.397	0.084	0.012	1.2
Add Row														
Overall Site Size		2.82										Total Soil Loss Estimates	1.920	54.9
Supplemental Information														

Add New Sheet

RUSLE Calculations

Drawing Code: ESC3 REV1														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													Site Erosion Potential	
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifer, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9
A	LS1	0.25	1.9	65.4	Surface roughening - 0.9 Sediment Pond - 0.3	320	0.048	0.36	1	0.27	5.465	1.475	0.369	1.4
B	LS4	0.96	24.2	11.3	Surface roughening - 0.9 Sediment Pond - 0.1	320	0.048	2.05	1	0.09	31.439	2.830	2.716	30.2
C	LS6	0.02	7.4	22.6	Hydromulch - 0.01	320	0.048	0.84	0.01	1	12.875	0.129	0.003	0.3
D	LS5b	0.31	45.78	5.46	Surface roughening - 0.9 Sediment Pond - 0.1	320	0.048	2.06	1	0.09	31.685	2.852	0.884	9.8
E	LS7	0.07	25.4	13.9	Hydromulch - 0.01	320	0.048	2.53	0.01	1	38.834	0.388	0.027	2.7
F	LS11	0.06	28.6	6.5	Hydromulch - 0.01	320	0.048	1.56	0.01	1	24.029	0.240	0.014	1.4
G	LS10	0.78	31.2	11.1	Vegetation	320	0.048	2.60	0.01	1	39.930	0.399	0.311	31.1
H	LS8	0.15	5.2	30.8	Hydromulch - 0.01	320	0.048	0.72	0.01	1	10.992	0.110	0.016	1.6
I	LS21	0.22	3.4	21.8	Vegetation	320	0.048	0.39	0.1	1	6.052	0.605	0.133	1.3
Add Row														
Overall Site Size		2.82										Total Soil Loss Estimates	4.474	79.9
Supplemental Information		In accordance with Section 100.6 of the Standard Specifications - ESC, area B and area D have all water going to a properly sized sediment containment systems, so a soil loss of 4 tonnes/ha/yr in these areas is acceptable.												

Add New Sheet

RUSLE Calculations

Drawing Code: ESC5														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													Site Erosion Potential	
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifer, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9
A	LS1	0.25	1.9	65.4	Surface roughening - 0.9 Sediment Pond - 0.3	320	0.048	0.36	1	0.27	5.465	1.475	0.369	1.4
B	LS4	0.96	24.2	11.3	Surface roughening - 0.9 Sediment Pond - 0.1	320	0.048	2.05	1	0.09	31.439	2.830	2.716	30.2
C	LS6	0.02	7.4	22.6	Hydromulch - 0.01	320	0.048	0.84	0.01	1	12.875	0.129	0.003	0.3
D	LS5b	0.31	45.78	5.46	Surface roughening - 0.9 Sediment Pond - 0.1	320	0.048	2.06	1	0.09	31.685	2.852	0.884	9.8
E	LS7	0.07	25.4	13.9	Hydromulch - 0.01	320	0.048	2.53	0.01	1	38.834	0.388	0.027	2.7
F	LS11	0.06	28.6	6.5	Hydromulch - 0.01	320	0.048	1.56	0.01	1	24.029	0.240	0.014	1.4
G	LS10	0.78	31.2	11.1	Vegetation	320	0.048	2.60	0.01	1	39.930	0.399	0.311	31.1
H	LS8	0.15	5.2	30.8	Hydromulch - 0.01	320	0.048	0.72	0.01	1	10.992	0.110	0.016	1.6
I	LS21	0.22	3.4	21.8	Vegetation	320	0.048	0.39	0.1	1	6.052	0.605	0.133	1.3
Add Row														
Overall Site Size		2.82										Total Soil Loss Estimates	4.474	79.9
Supplemental Information		In accordance with Section 100.6 of the Standard Specifications - ESC, area B and area D have all water going to a properly sized sediment containment systems, so a soil loss of 4 tonnes/ha/yr in these areas is acceptable.												

Add New Sheet

RUSLE Calculations

Drawing Code: ESC6														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													Site Erosion Potential	
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifer, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9
A	LS1	0.31	1.8	31	Aggregate Cover - 0.05	320	0.048	0.25	0.05	1	3.906	0.195	0.061	1.2
B	LS2	0.80	14.6	6.4	Surface roughening - 0.9 Sediment Pond - 0.1	320	0.048	0.78	1	0.09	11.980	1.078	0.863	9.6
C	LS5	0.30	0.8	39.8	Aggregate Cover - 0.05	320	0.048	0.13	0.05	1	2.038	0.102	0.031	0.6
D	LS6	0.03	29.5	3.2	Hydromulch - 0.01	320	0.048	0.99	0.01	1	15.181	0.152	0.005	0.5
E	LS7	0.12	2.2	82.4	Aggregate Cover - 0.05	320	0.048	0.46	0.05	1	7.061	0.353	0.042	0.8
F	LS9	0.14	33.3	10	Hydromulch - 0.01	320	0.048	2.55	0.01	1	39.091	0.391	0.055	5.5
G	LS13	0.02	50	5.1	Hydromulch - 0.01	320	0.048	2.09	0.01	1	32.156	0.322	0.006	0.6
H	LS16	0.03	50	6.3	Hydromulch - 0.01	320	0.048	2.49	0.01	1	38.270	0.383	0.011	1.1
I	LS10	0.22	2.2	42	Vegetation - 0.01	320	0.048	0.35	0.01	1	5.350	0.054	0.012	1.2
J	LS11	0.14	5.2	28.9	Hydromulch - 0.01	320	0.048	0.69	0.01	1	10.594	0.106	0.015	1.5
K	LS12	0.30	16.1	17.6	Vegetation - 0.01	320	0.048	1.83	0.01	1	28.144	0.281	0.084	8.4
L	LS17	0.41	30.5	11	Vegetation - 0.01	320	0.048	2.52	0.01	1	38.783	0.388	0.159	15.9
Add Row														
Overall Site Size		2.82										Total Soil Loss Estimates	1.343	47.0
Supplemental Information														

Add New Sheet

RUSLE Calculations

Drawing Code: ESC7														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													Site Erosion Potential	
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifer, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9
A	LS13	0.41	6.1	13.9	Aggregate Cover - 0.05	320	0.048	0.52	0.05	1	7.964	0.398	0.163	3.3
B1	LS4	0.06	1.6	58	Aggregate Cover - 0.05	320	0.048	0.28	0.05	1	4.355	0.218	0.013	0.3
B2	LS5	0.30	0.7	21.2	Aggregate Cover - 0.05	320	0.048	0.10	0.05	1	1.608	0.080	0.024	0.5
C	LS15	0.03	40.1	6.8	Hydromulch - 0.01	320	0.048	2.21	0.01	1	33.888	0.339	0.010	1.0
E	LS9	0.12	2.2	82.4	Aggregate Cover - 0.05	320	0.048	0.46	0.05	1	7.061	0.353	0.042	0.8
F	LS12	0.19	11	11.2	Hydromulch - 0.01	320	0.048	0.83	0.01	1	12.792	0.128	0.024	2.4
G		0.54			Concrete pad	320	0.048							
H	LS21	0.05	1	17.9	Aggregate Cover - 0.05	320	0.048	0.13	0.05	1	2.006	0.100	0.005	0.1
I	LS11	0.48	30.8	12.1	Vegetation - 0.01	320	0.048	2.75	0.01	1	42.237	0.422	0.203	20.3
J	LS21	0.64	10.46	41.1	Vegetation - 0.01	320	0.048	1.91	0.01	1	29.352	0.294	0.187	18.7
Add Row														
Overall Site Size		2.82										Total Soil Loss Estimates	0.672	47.3
Supplemental Information														

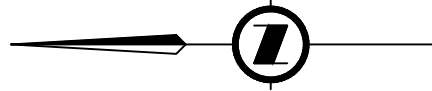
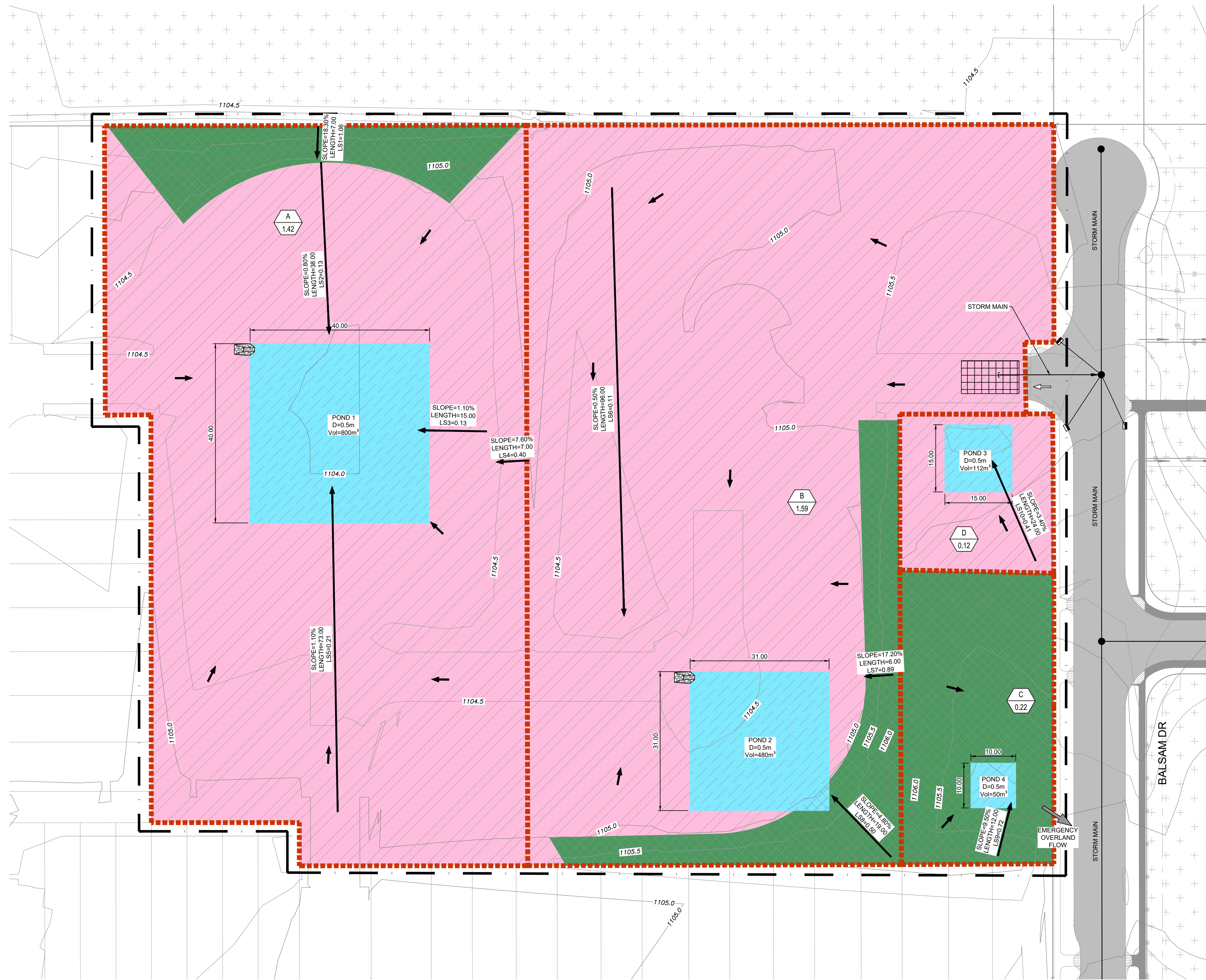
Add New Sheet

RUSLE Calculations

Drawing Code: ESC8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													Site Erosion Potential	
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifer, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9
						320			0	1				
A2	LS11	0.23	1.9	26	Concrete	320	0.048	0.25	0	1	3.842	0.000	0.000	0.9
A3	LS10	0.18	0.6	69.5	Vegetation - 0.01	320	0.048	0.12	0.01	1	1.789	0.018	0.003	0.3
B1	LS13	0.07	2.2	16	Pavement	320	0.048	0.23	0	1	3.596	0.000	0.000	0.3
B2	LS13b	0.29	2.2	16	Pavement	320	0.048	0.23	0	1	3.596	0.000	0.000	1.0
C	LS5	0.10	40	7.4	Vegetation - 0.01	320	0.048	2.36	0.01	1	36.218	0.362	0.036	3.6
D	LS6	0.05	40	9.8	Vegetation - 0.01	320	0.048	2.96	0.01	1	45.499	0.455	0.023	2.3
E2	LS14	0.05	2.5	14	Concrete	320	0.048	0.25	0	1	3.770	0.000	0.000	0.2
F	LS9	0.18	11.1	11.7	Vegetation - 0.01	320	0.048	0.87	0.01	1	13.339	0.133	0.024	2.4
G	LS8	0.39	25.2	19.2	Vegetation - 0.01	320	0.048	3.23	0.01	1	49.567	0.496	0.193	19.3
K	LS2	0.69	10.46	41.1	Vegetation - 0.01	320	0.048	1.91	0.01	1	29.352	0.294	0.203	20.3
BLDG		0.54			Building	320	0.048		0	1				
J	LS12	0.05	1.9	13	Concrete	320	0.048	0.19	0	1	2.948	0.000	0.000	0.1
Add Row														
Overall Site Size		2.82										Total Soil Loss Estimates	0.482	50.7
Supplemental Information														

FILE: D:\IBC ENGINEERING\CITY OF CALGARY - DOCUMENTS\DESIGN\DESIGN SHEET FILES\CONSTRUCTION DRAWINGS\A\A\ESC5 - BEFORE DEVELOPMENT - S\1-BC.DWG DATE: April 13, 2022 4:00:04 PM



INSTALL HYDROMULCH AND SEED IN AREAS A, B+D IF THE PERIOD OF INACTIVITY ON THESE LOCATIONS WILL REACH 365 DAYS.

LEGEND

- CONSTRUCTION BOUNDARY
- EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)
- EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)
- DRAINAGE DIVIDES
- DRAINAGE DIVIDE LABEL
DRAINAGE DIVIDE AREA IN ha
SOIL ERODIBILITY CLASS (WHERE APPLICABLE)
- OVERLAND FLOW DIRECTION
- RUN-ON / RUN-OFF LOCATIONS
- EMERGENCY OVERLAND FLOW ROUTE
- CATCH BASIN
- STORM MAIN
- TYPE 5A MANHOLE
- STABILIZED OVERFLOW
- PAVEMENT
- CONCRETE WALKS / ASPHALT PATHWAY
- VEGETATION
- HYDROMULCH (200.1.4)
- SURFACE ROUGHENING (200.2.5)
- SEDIMENT TRAP (200.2.2)
- PT RUN GRAVEL (200.1.6)
STONE >2mm b/w 25% & 50%
- STABILIZED GRAVEL ACCESS (200.3.1)

NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE



NAD 83 COORDINATES

ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD
0	ISSUED FOR ESC REPORT APPROVAL	2018-11-30	RCM	RG

DESIGNED	BY	DATE (YYYY-MM-DD)
RCM	RCM	2018-07-09
DRAWN	BY	DATE (YYYY-MM-DD)
LH	LH	2018-07-09
CHECKED	BY	DATE (YYYY-MM-DD)
RG	RG	2018-09-01

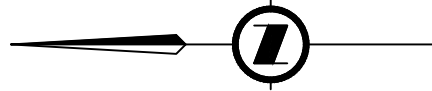
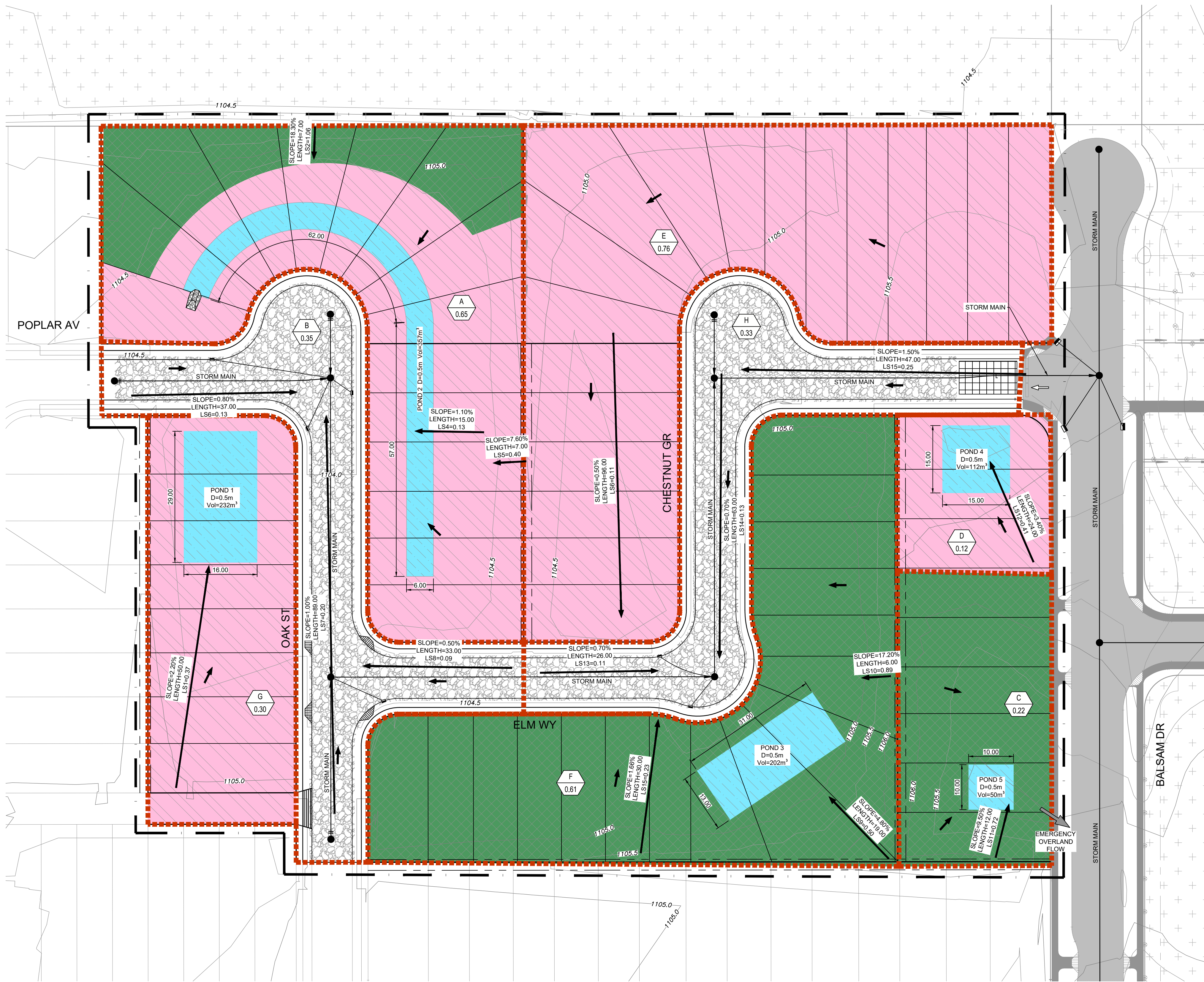
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PROJECT
PROJECT XYZ
SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

SHEET TITLE
ABOVE GROUND WORK

FILE NO.	ENG DWG NO.	
12345678C-101.dwg		
SHEET ID.	SHEET NO.	
ESC5		
BY	DATE (YYYY-MM-DD)	PROFILE NO.

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INSTALL HYDROMULCH AND SEED IN AREAS A,D,E+G IF THE PERIOD OF INACTIVITY ON THESE LOCATIONS WILL REACH 365 DAYS.

LEGEND

- CONSTRUCTION BOUNDARY
- EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)
- EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)
- DRAINAGE DIVIDES
- DRAINAGE DIVIDE LABEL
DRAINAGE DIVIDE AREA IN ha
SOIL ERODIBILITY CLASS (WHERE APPLICABLE)
- OVERLAND FLOW DIRECTION
- RUN-ON / RUN-OFF LOCATIONS
- EMERGENCY OVERLAND FLOW ROUTE
- CATCH BASIN
- STORM MAIN
- TYPE 5A MANHOLE
- STABILIZED OVERFLOW
- PAVEMENT
- CONCRETE WALKS / ASPHALT PATHWAY
- VEGETATION
- HYDROMULCH (200.1.4)
- SURFACE ROUGHENING (200.2.5)
- SEDIMENT TRAP (200.2.2)
- PT RUN GRAVEL (200.1.6)
STONE >2mm b/w 25% & 50%
- STABILIZED GRAVEL ACCESS (200.3.1)

NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE



NAD 83
COORDINATES

ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD
0	ISSUED FOR ESC REPORT APPROVAL	2018-11-30	RCM	RG

DESIGNED	BY	DATE (YYYY-MM-DD)
RCM		2018-07-09
DRAWN	BY	DATE (YYYY-MM-DD)
LH		2018-07-09
CHECKED	BY	DATE (YYYY-MM-DD)
RG		2018-09-01

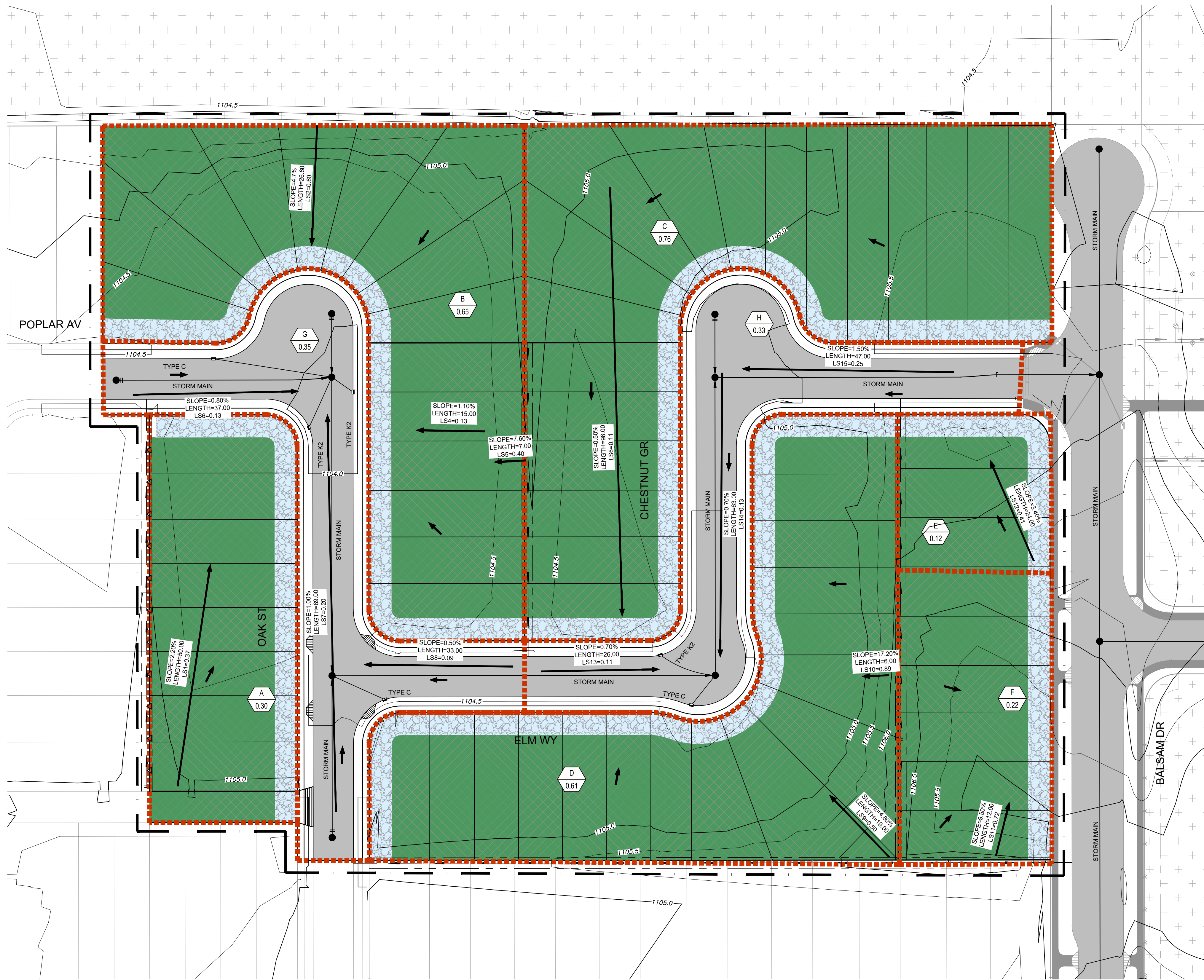
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PROJECT
PROJECT XYZ
SEC: 23 - TWP: 24 - RGE: 2 - W 5th M



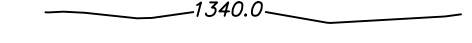















SHEET TITLE
POST UNDERGROUND

FILE NO. 12345678C-101.dwg	ENG DWG NO.	
SHEET ID. ESC6	SHEET NO.	
BY	DATE (YYYY-MM-DD)	PROFILE NO.

FILE: D:\BRC\ENGINEERING\CAD - STANDARDS\DESIGN\WORKSHEET FILES\CONSTRUCTION DRAWINGS\AD-ESC7 - ABOVE GROUND - SD-LBC.DWG [DATE: April 19, 2022 9:34:42 AM]



LEGEND

-  CONSTRUCTION BOUNDARY
-  EXISTING GROUND CONTOURS (MINOR - 0.50 INTERVAL)
-  EXISTING GROUND CONTOURS (MAJOR - 1.00 INTERVAL)
-  DRAINAGE DIVIDES
-  DRAINAGE DIVIDE LABEL
-  DRAINAGE DIVIDE AREA in ha
-  SOIL ERODIBILITY CLASS (WHERE APPLICABLE)
-  OVERLAND FLOW DIRECTION
-  RUN-ON / RUN-OFF LOCATIONS
-  CATCH BASIN
-  STORM MAIN
-  TYPE SA MANHOLE
-  PAVEMENT
-  VEGETATION
-  HYDROMULCH (200.1.4)
-  CLEAN WASHED GRAVEL (200.1.6)
-  SILT FENCE (200.2.6)
-  CONCRETE SWALE

NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE



NAD 83
COORDINATES

ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD.
0	ISSUED FOR ESC REPORT APPROVAL	2018-11-30	RCM	RG

DESIGNED	BY	DATE
DRAWN	LH	2018-07-09
CHECKED	RG	2018-09-01

SCALE	0 10 20 m
1:500	




PROJECT
PROJECT XYZ
SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

SHEET TITLE
ABOVE GROUND WORK

FILE NO. 12345678C-101.dwg	ENG DWG NO.	
SHEET ID. ESC7	SHEET NO.	
BY	DATE (YYYY-MM-DD)	PROFILE NO.

Add New Sheet

RUSLE Calculations

Drawing Code: ESC5															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
													Site Erosion Potential		
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr	
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifer, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9	
A	LS5	1.30	1.1	73	Sediment Pond - 0.3 Surface Roughening - 0.9	320	0.048	0.21	1	0.27	3.180	0.859	1.116	4.1	
A	LS1	0.11	18.3	7	Hydromulch - 0.01	320	0.048	1.06	0.01	1	16.305	0.163	0.018	1.8	
B	LS6	1.36	0.5	96	Sediment Pond - 0.5 Surface Roughening - 0.9	320	0.048	0.11	1	0.45	1.622	0.730	0.993	2.2	
B	LS7	0.23	17.2	6	Hydromulch - 0.01	320	0.048	0.89	0.01	1	13.613	0.136	0.031	3.1	
C	LS9	0.22	9.5	12	Hydromulch - 0.01 Sediment Pond 0.6	320	0.048	0.72	0.01	0.6	11.063	0.066	0.015	2.4	
D	LS10	0.12	3.4	24	Sediment Pond - 0.2 Surface Roughening - 0.9	320	0.048	0.41	1	0.18	6.350	1.143	0.137	0.8	
Add Row															
Overall Site Size		3.34											Total Soil Loss Estimates	2.310	14.5
Supplemental Information															

Add New Sheet

RUSLE Calculations

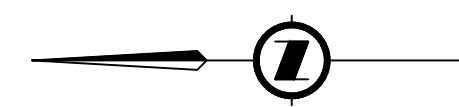
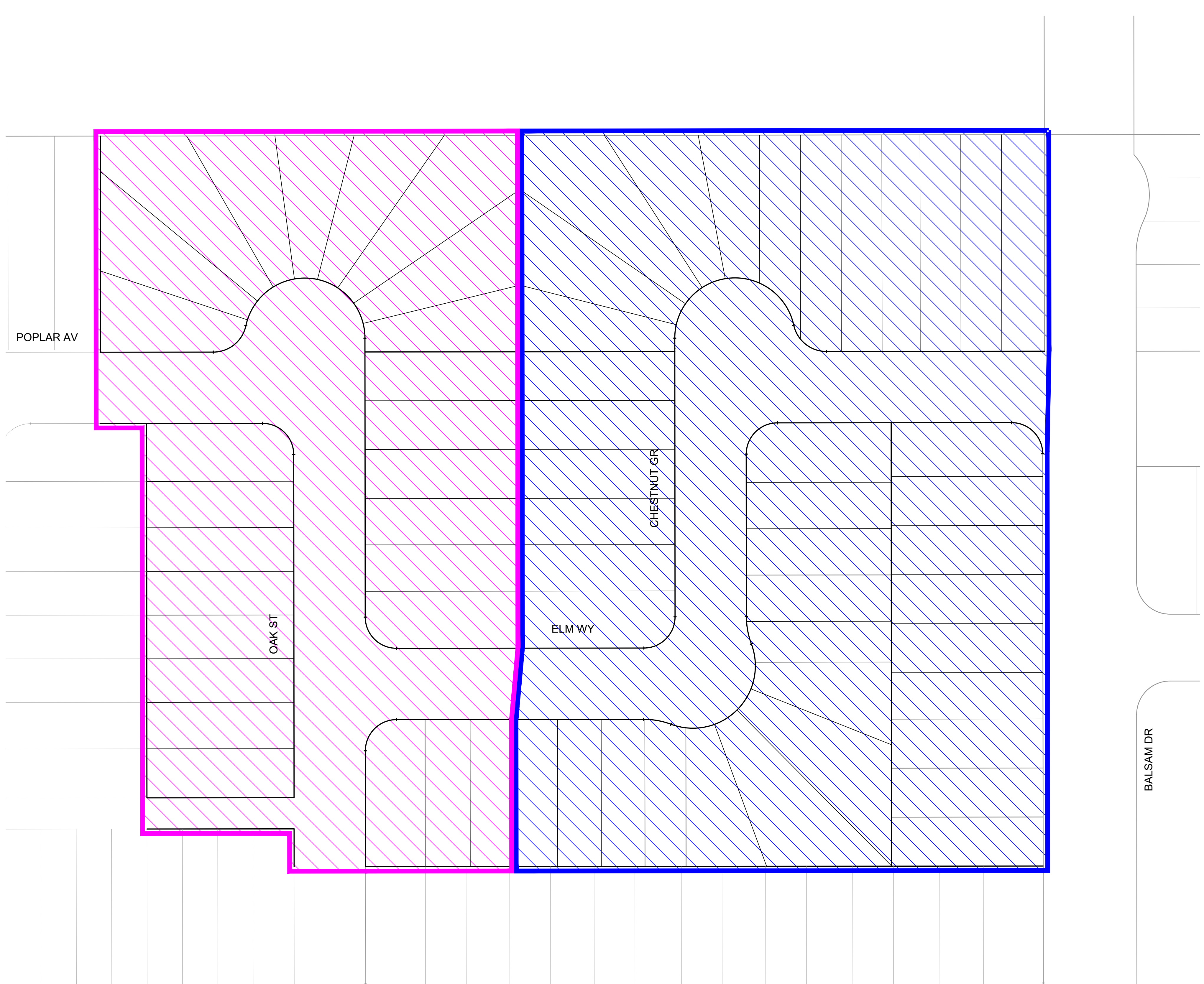
Drawing Code: ESC6														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													Site Erosion Potential	
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifer, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9
A	LS2	0.49	18.3	7	Hydromulch - 0.01	320	0.048	1.06	0.01	1	16.305	0.163	0.080	8.0
A	LS4	0.16	1.1	15	Sediment Pond - 0.3 Surface Roughening - 0.9	320	0.048	0.13	1	0.27	2.052	0.554	0.089	0.3
B	LS6	0.35	0.8	37	Aggregate Cover - 0.05	320	0.048	0.13	0.05	1	2.005	0.100	0.035	0.7
C	LS11	0.22	9.5	12	Hydromulch - 0.01	320	0.048	0.72	0.01	1	11.063	0.111	0.024	2.4
D	LS10	0.12	3.4	24	Sediment Pond - 0.2 Surface Roughening - 0.9	320	0.048	0.41	1	0.18	6.350	1.143	0.137	0.8
E	LS6	0.76	0.5	96	Surface Roughening - 0.9	320	0.048	0.11	1	0.9	1.622	1.460	1.110	1.2
F	LS10	0.61	17.2	6	Hydromulch - 0.01	320	0.048	0.89	0.01	1	13.613	0.136	0.083	8.3
G	LS1	0.30	2.2	50	Sediment Pond - 0.2 Surface Roughening - 0.9	320	0.048	0.37	1	0.18	5.748	1.035	0.310	1.7
H	LS15	0.33	1.5	47	Aggregate Cover - 0.05	320	0.048	0.25	0.05	1	3.796	0.190	0.063	1.3
						320	0.048							
Add Row														
Overall Site Size		3.34										Total Soil Loss Estimates	1.931	24.7
Supplemental Information														

Add New Sheet

RUSLE Calculations

Drawing Code: ESC7														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													Site Erosion Potential	
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
Area # 1	LS21	0.5	20	50	Sediment Pond - 0.5 ; Mulch, tackifier, seed - 0.1	320	0.048	5.20	0.01	0.1	79.825	0.080	0.040	39.9
A	LS1	0.30	2.2	50	Hydromulch - 0.01 w/gravel apron (0.05)	320	0.048	0.37	0.01	1	5.748	0.057	0.017	1.7
B	LS2	0.65	4.7	26.8	Hydromulch - 0.01 w/gravel apron (0.05)	320	0.048	0.60	0.01	1	9.185	0.092	0.060	6.0
C	LS6	0.76	0.5	96	Hydromulch - 0.01 w/gravel apron (0.05)	320	0.048	0.11	0.01	1	1.622	0.016	0.012	1.2
D	LS10	0.61	17.2	6	Hydromulch - 0.01 w/gravel apron (0.05)	320	0.048	0.89	0.01	1	13.613	0.136	0.083	8.3
E	LS12	0.12	3.4	24	Hydromulch - 0.01 w/gravel apron (0.05)	320	0.048	0.41	0.01	1	6.350	0.064	0.008	0.8
F	LS11	0.22	9.5	12	Hydromulch - 0.01 w/gravel apron (0.05)	320	0.048	0.72	0.01	1	11.063	0.111	0.024	2.4
G	LS6	0.35	0.8	37	Concrete	320	0.048	0.13	0	1	2.005	0.000	0.000	0.7
H	LS15	0.33	1.5	47	Concrete	320	0.048	0.25	0	1	3.796	0.000	0.000	1.3
Add Row														
Overall Site Size		3.34										Total Soil Loss Estimates	0.204	22.4
Supplemental Information														

FILE: D:\LBC\ENGINEERING\CITY OF CALGARY - DOCUMENTS\DESIGN\DESIGN SHEET FILES\CONSTRUCTION DRAWINGS\CAD\ESC ID - PHASING PLAN - SD\LBC.DWG | DATE: April 13, 2022 3:57:40 PM



NOTES

- 1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- 2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

CITY OF CALGARY OFFICE USE



NAD 83
COORDINATES

ESC REVISION TABLE

NO.	DESCRIPTION	DATE (YYYY-MM-DD)	BY	APPD
0	ISSUED FOR ESC REPORT APPROVAL	2018-11-30	RCM	RG

PERMIT	SEAL
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DESIGNED	BY RCM	DATE 2018-07-09
DRAWN	LH	2018-07-09
CHECKED	RG	2018-09-01

SCALE 1:500
0 10 20 m



PROJECT
PROJECT XYZ
SEC: 23 - TWP: 24 - RGE: 2 - W 5th M

SHEET TITLE
PHASING PLAN

FILE NO. 12345678C-101.dwg ENG DWG NO.

SHEET ID. **ESC10** SHEET NO.

DRAWN	BY	DATE (YYYY-MM-DD)	PROFILE NO.
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LEGEND

- PHASE 1
- PHASE 2