

BLUFFER'S PARK EAST WASHROOM

1 BRIMLEY ROAD SOUTH | SCARBOROUGH | ONTARIO | M1M 3W3

ISSUED FOR TENDER | 2025-04-11

ARCHITECT

DTAH ARCHITECTS LIMITED 425 ADELAIDE ST. WEST, SUITE 600 TORONTO, ONTARIO M5V 3C1 T: 416 968 9479 F: 416 968 0687

DRAWING LIST

,	ARCHITEC	TURAL
	A001 A002 A003	PROJECT INFORMATION ASSEMBLIES SCHEDULE SCHEDULES - DOORS, WINDOWS AND ROOM FINISH
	A100 A101 A102	SITE PLAN SURVEY CONTEXT PLAN
	A200 A201 A202 A203	FOUNDATION PLAN GROUND FLOOR PLAN ROOF PLAN REFLECTED CEILING PLAN
	A300 A301	BUILDING ELEVATIONS - WEST BUILDING BUILDING ELEVATIONS - EAST BUILDING
	A400 A401	BUILDING SECTIONS - WEST BUILDING BUILDING SECTIONS - EAST BUILDING
	A500 A501 A502 A503 A504 A505 A506	WALL SECTIONS - WEST BUILDING WALL SECTIONS - WEST BUILDING WALL SECTIONS - WEST BUILDING WALL SECTIONS - EAST BUILDING SECTION DETAILS - WEST BUILDING ROOF SECTION DETAILS - WEST BUILDING SECTION DETAILS - EAST BUILDING
	A600 A601	PLAN DETAILS - WEST BUILDING PLAN DETAILS - EAST BUILDING
	4800 4801 4802 4803 4804 4805	INTERIOR ELEVATIONS - WEST BUILDING INTERIOR ELEVATIONS - WEST BUILDING INTERIOR ELEVATIONS - WEST AND EAST BUILDING MISCELLANEOUS METALS MILLWORK DETAILS MILLWORK DETAILS (WASHROOMS)

STRUCTURAL

READ JONES CHRISTOFFERSEN LTD. 100 UNIVERSITY AVE NORTH TOWER, SUITE 400 TORONTO, ONTARIO M5J 1V6 T: 416-977-5335

DRAWING LIST

STR	UCI	TUR	AL

STRUCTU	RAL
S000 S001 S002 S003 S004 S005 S006 S007 S008 S009 S010 S011 S012	COVER GENERAL NOTES & TYPICAL DETAILS GENERAL NOTES & TYPICAL DETAILS
S199 S200 S200A	BOARD WALK LOADING PLAN GROUND FLOOR / FOUNDATION PLAN GROUND FLOOR / FOUNDATION PLAN
S200B	GROUND FLOOR / FOUNDATION PLAN
S200C	(WEST BUILDING) GROUND FLOOR / FOUNDATION PLAN (EAST BUILDING) - PRELIMINARY GEOPIER
S200D	GROUND FLOOR / FOUNDATION PLAN (WEST BUILDING) - PRELIMINARY GEOPIER
S200E	GROUND FLOOR / FOUNDATION PART PLAN
S200F	(BOARDWALK) GROUND FLOOR / FOUNDATION PART PLAN (BOARDWALK)
S201 S201A S201B	ROOF FRAMING PLAN ROOF FRAMING PLAN(EAST BUILDING) ROOF FRAMING PLAN(WEST BUILDING)
S301	SCHEDULES
S401 S402 S403 S404	WALL ELEVATIONS - EAST BUILDING WALL ELEVATIONS - EAST BUILDING WALL ELEVATIONS - WEST BUILDING WALL ELEVATIONS - WEST BUILDING
S501 S502	SECTIONS & DETAILS SECTIONS & DETAILS

SECTIONS & DETAILS SECTIONS & DETAILS SECTIONS & DETAILS S512 SECTIONS & DETAILS

S505

S511

DRAWING LIST

MECHANICAL

INTROBA

380 WELLINGTON STREET WEST TORONTO, ONTARIO M5V 1E3 T: 416 488 4425

MECHANICAL

- M001
 - MECHANICAL LEGEND, DRAWING LIST, GENERAL NOTES
- MECHANICAL SITE PLAN M100
- M101 MECHANICAL DEMOLITION PLAN
- M200 M201 FOUNDATION PLAN GROUND FLOOR PLAN - HVAC
- M202 GROUND FLOOR PLAN - PLUMBING
- M203 ROOF PLAN - HVAC
- ROOF PLAN PLUMBING M204 M301 REFRIGERANT SCHEMATIC
- M501 MECHANICAL SCHEDULES
- M601 MECHANICAL SPECIFICATIONS

ELECTRICAL

INTROBA 380 WELLINGTON STREET WEST TORONTO, ONTARIO M5V 1E3 T: 416 488 4425

DRAWING LIST

ELECTRICAL

E001	ELECTRICAL LEGEND, DRAWING LIST,
	GENERAL NOTES
E100A	ELECTRICAL SITE PLAN - NORTH
E100B	ELECTRICAL SITE PLAN - SOUTH
E101	GROUND FLOOR - POWER & SYSTEMS PLA
E102	ROOF PLAN - POWER & SYSTEMS PLAN
E201	GROUND FLOOR PLAN - LIGHTING PLAN
E301	ELECTRICAL SINGLE LINE DIAGRAM &
	SCHEMATIC
E401	ELECTRICAL SCHEDULES
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SPECIFICATIONS

LANDSCAPE

DTAH 425 ADELAIDE ST. WEST, SUITE 600 TORONTO, ONTARIO M5V 3C1 T: 416 968 9479 F: 416 968 0687

DRAWING LIST

LANDSCAPE

L**-**507

L-100 L-101 L-102	NOTES DEMOLITION PLAN DEMOLITION PLAN
L-200 L-201	LAYOUT AND MATERIAL PLAN LAYOUT AND MATERIAL PLAN
L-300 L-301	GRADING PLAN GRADING PLAN
L-400 L-401	PLANTING PLAN PLANTING PLAN
L-500 L-501 L-502 L-503 L-504 L-505	LANDSCAPE DETAILS LANDSCAPE DETAILS LANDSCAPE DETAILS LANDSCAPE DETAILS LANDSCAPE DETAILS LANDSCAPE DETAILS
L-506	LANDSCAPE DETAILS

LANDSCAPE DETAILS

R.V ANDER
2001 SHEPPARD
TORONTO, ONTA
M2J 4Z8
T: 416 497 8600
F: 855 833 4022

DRAWING LIST

CIVIL

C-1	GENERAL N
C-2	GENERAL S
C-3 C-4 C-5	SWM DETA SWM DETA SWM DETA
<u> </u>	

RSON ASSOCIATES LIMITED

AVENUE EAST, SUITE 300 ARIO

NOTES

SITE SERVICING

AILS AND CROSS-SECTIONS-1 AILS AND CROSS-SECTIONS-2 AILS AND CROSS-SECTIONS-3

C-6 EROSION AND SEDIMENT CONTROL PLAN-1 C-7 EROSION AND SEDIMENT CONTROL PLAN-2

GROUND IMPROVEMENTS - GEOPIER

GEOSOLV DESIGN + BUILD 120 VINYL COURT WOODBRIDGE, ONTARIO L4L 4A3 T: 905-226-2599 F: 905-226-2601

DRAWING LIST

8

GROUND IMPROVEMENTS - GEOPIER

- GEOPIER DESIGN DRAWING NOTES AND DETAILS GEOPIER DESIGN DRAWING NOTES AND DETAILS
- GEOPIER DESIGN DRAWING EAST BLDG LAYOUT - 3 GEOPIER DESIGN DRAWING WEST BLDG LAYOUT
- GEOPIER DESIGN DRAWING SHOWERS LAYOUT GEOPIER DESIGN DRAWING BOARDWALK LAYOUT
- HELICAL PILE DRAWING LAYOUT HELICAL PILE DRAWING LAYOUT

Do not use this	form for Retrofit Pr	omite		_	Fo	older No.	7	Fire Separat	ions/Resis	tance Rat
		5111118						Building Code	Reference No	3.2.2.55
Toronto an	d East York	North York	S	carborough] Etobicoke York	7	Assembly	Required	Proposed
The proposed a	ow building or oddi	ition in dealaned in		with the follow	ina provinia	of the Onterio	-	Floor	FRR	FRR
Building Code,	O. Reg. 332/12				ing provisio			immediately		
Major Occup	ancy	1		-	1		- I	basement		
Group/Division	Group A, Division 1	Group B, Division 1	Group C	Group D	Group E	Group F/ Division 3		Floor below		
OBC Reference				3.2.2.55				ground level		
Location				West Building				Other floor(s)		
For mixed use	describe the use a	and/or attach lavout	Layout a	ttached						
			Fire Sch	ematic Layou	ut ⁽¹⁾ attached	1		Construction	n Type:	Cor
Building Info	rmation						л			🗖 Bot
3uilding Area ⁽²⁾ :	394 m ²	Mezzanine ⁽⁴⁾ area	a: <mark>0 m</mark> *	2 🛛 Open M	lezzanine	Closed Mezzanine		Barrior From	Poquiron	onte
Building Height ⁽³): 1 storey((s) Number of street	s ⁽⁵⁾ : 1 with	53.10 % pe	erimeter withi	n 15m of the street(s		Barrier Free	y Barrier Fre	e
							-	Building par	tially Barrier	Free – Plea
Bublic Corridoro	ade: () storey(
Public Corridors		Interconnected fl	oore/atrium (
as per:		1		🗆 Yes 🛛 🗹	No aspe	ər:		Equivalency	/	
as per: Corridors require	ed for separation of e	exits □Yes ☑	No Perim	☐ Yes	No as pe	er:	-	Equivalency	/ s based on E	quivalency
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A001 NTS

2 WEST BUILDING INFORMATION SHEET



LEGEND:







	ISS (FKK)				
3.2.2.80		or	□ Table 9	.10.8.1	
Proposed FRR	Construction Assembly	Assembly	Required FRR	Proposed FRR	Constructior Assembly
		Mezzanines			
		Roof			
		Public Corridors			
Com	bustible permitte	d	Non-comb	ustible require	ed
🗖 Both	– used individua	lly	Both in cor	nbination	
onto					
Free – Pleas	e Explain Below: Part 10 or Part 11	please descri	be below or a	ttach report.	
Free – Pleas	Part 10 or Part 11	please descri	be below or a	ttach report.	
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Free – Pleas quivalency/F ional Engine	e Explain Below: Part 10 or Part 11 Per / Designer Mega	l please descri	be below or a	Telephone N (416) 968-947 Fax No. 2024-10-0	0. 79 04



C C D A A S V V T T S	CONTRAC CONDITIC DO NOT S ALL DRAV ARCHITEC SPECIFICA WRITTEN THIS DRA GIGNED B	TOR SHALL VERIFY A INS ON THE JOB. CALE DRAWINGS. VING SPECIFICATION T AND MUST BE RET NTIONS AND RELATEL PERMISSION. WING IS NOT TO BE I Y THE ARCHITECT.	ND BE RESPONSIBLE FO IS AND RELATED DOCUE TURNED UPON REQUEST D DOCUMENTS IN PART USED FOR CONSTRUCTIO	R CHECKING ALL DIMENSIONS AND ENTS ARE THE COPYRIGHT PROPERTY OF THE F. REPRODUCTION OF DRAWINGS OR IN WHOLE IS FORBIDDEN WITHOUT ON UNTIL
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EXTERIOR WALL ASSEMBLIES

NOTES:

1. SEE PLANS AND ELEVATIONS FOR CLADDING LOCATIONS AND PATTERN



INTERIOR PARTITIONS

FLOOR ASSEMBLIES

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND CONDITIONS ON THE JOB. DO NOT SCALE DRAWINGS.

ALL DRAWING SPECIFICATIONS AND RELATED DOCUENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE ARCHITECT.

ROOF ASSEMBLIES



- MODIFIED BITUMEN ROOF ASSEMBLY (R-40 MIN.) - MODIFIED BITUMEN CAP SHEET - MODIFIED BITUMEN BASE SHEET
- RIGID COVER BOARD
- 75mm TAPERED INSULATION TO SLOPE TO DRAIN (2%min.) - 178mm RIGID INSULATION BOARD (R-40 MIN.) - AIR BARRIER
- 19mm PLYWOOD ROOF SHEATHING - T+G WOOD ROOF DECKING, CLEAR SEALANT (SEE
- STRUCTURAL) - WOOD ROOF FRAMING MEMBERS, CLEAR SEALANT (SEE STRUCTURAL)

MODIFIED BITUMEN ROOF ASSEMBLY - UNINSULATED - MODIFIED BITUMEN CAP SHEET

- MODIFIED BITUMEN BASE SHEET
- RIGID COVER BOARD - 75mm TAPERED INSULATION TO SLOPE TO DRAIN (2%min.) - AIR BARRIER
- 19mm PLYWOOD ROOF SHEATHING
- T+G WOOD ROOF DECKING, , CLEAR SEALANT (SEE STRUCTURAL)
- WOOD ROOF FRAMING MEMBERS, , CLEAR SEALANT (SEE STRUCTURAL)

CEILING ASSEMBLY



C1 SUSPENDED GYPSUM CEILING - AIR SPACE WITH HANGERS FOR STRUCTURAL FRAMING, ELECTRICAL & MECHANICAL EQUIPMENT - 50MM SUSPENDED GALVANIZED METAL CHANNEL SYSTEM - 16MM GYPSUM CEILING BOARD





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BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

ASSEMBLIES SCHEDULE

Print Date 2025-04-11 Project No 21-029 Drawn by SS/NP/RM Checked by MT

Scale AS NOTED





+(W01) (W02) (W03) 3 HM FRAME SCHEDULE A003 Scale 1:50

GENERAL NOTES: DIMENSIONS ARE ROUGH OPENINGS AND ARE TO BE FIELD VERIFIED PRIOR TO SUBMITTAL OF SHOP DRAWINGS. PROVIDE CLOSURE PANELS, SILL EXTRUSIONS AND JAMB EXTRUSIONS AS REQUIRED.









DOOR TYPES

DOOR FRAMES

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114	W
115	
116	
117	BF
118	BF
119	
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		[# D101A	ROOM NAME HALL	SIZE 1100 x 2428 x 45	TYPE MATE B AL			FRAME TYPE FIN WEST	- x x STRIPPING	U/L LABEL × DOOR CLOSURE PANIC	HARDWA HARDWA HARDWA	RE DM		REMARKS	DTAH Architects Limited 425 Adelaide St. W Suite 600 Toronto, Ontario MSV 3C1 ww
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			# D101A D101B D102 D103	ROOM NAME HALL HALL MEETING ROOM STORAGE	SIZE 1100 x 2428 x 45 1100 x 2428 x 45 1100 x 2428 x 45 2 (815 x 2218 x 45)	TYPEMATEBALBHBHAH	ERIAL FINISH	H MATERIAL ALUM HM HM HM	FRAME TYPE FIN WEST A F A F A F	ISH THRESHOLD BOIIFDING - X X T. X T. X T. X T. X T. X T. X T. X	UIL LABEL UIL LABEL X X X DOOR CLOSURE PANIC	HARDWA HARDWA HARDWA X STOREROG PASSAG STOREROG	RE DM DM E DM HM FR/	AME #W04	REMARKS	DTAH Architects Limited 425 Adelaide St. W Suite 600 Toronto, Ontario M5V 3C1 ww
			# D101A D101B D102 D103 D104	ROOM NAME HALL HALL MEETING ROOM STORAGE GARAGE	SIZE 1100 × 2428 × 45 1100 × 2428 × 45 1100 × 2428 × 45 2 (815 × 2218 × 45) 5300 × 3018 × 45	TYPEMATEBALBHAHAH	ERIAL FINISH	H MATERIAL ALUM HM HM HM HM -	FRAME TYPE FIN WEST A F A F A F A F	ISH UILDING - X X T I I I T I I I I	U/L LABEL U/L LABEL × × × × DOOR CLOSURE	HARDWA HARDWA HARDWA X STOREROO CLASSROO PASSAG STOREROO I	RE DM DM E DM HM FR/ MOTO INSUL	AME #W04 RIZED OVE ATED COILI	REMARKS	DTAH Architects Limited 425 Adelaide St. W Suite 600 Toronto, Ontario T 4 M5V 3C1 ww
			# D101A D101B D102 D103 D104 D105 D106	ROOM NAME HALL HALL MEETING ROOM STORAGE GARAGE UTILITY ROOM STAFF	SIZE 1100 × 2428 × 45 1100 × 2428 × 45 1100 × 2428 × 45 2 (815 × 2218 × 45) 5300 × 3018 × 45 2 (1100 × 2428 × 45) 965 × 2428 × 45	TYPE MATE B AL B H A H - A A AL B H	ERIAL FINISH	H MATERIAL ALUM HM HM HM ALUM HM	FRAME TYPE FIN WEST A F A F A F A F A F A F	ISH	U/L LABEL U/L LABEL N/L X	HARDWA HARDWA HARDWA HARDWA K STOREROG HARDWA STOREROG STOREROG STOREROG STOREROG CLASSROG STOREROG CLASSROG CLASSROG	RE DM DM DM DM E DM HM FR/ MOTO INSUL DM	AME #W04 RIZED OVE ATED COILI	REMARKS	DTAH Architects Limited 425 Adelaide St. W Suite 600 Toronto, Ontario T4 M5V 3C1 ww
			# D101A D101B D102 D103 D104 D105 D106 D107	ROOM NAME HALL HALL MEETING ROOM STORAGE GARAGE UTILITY ROOM STAFF STORAGE	SIZE 1100 × 2428 × 45 1100 × 2428 × 45 1100 × 2428 × 45 2 (815 × 2218 × 45) 5300 × 3018 × 45 2 (1100 × 2428 × 45 965 × 2428 × 45 815 × 2428 × 45	TYPE MATE B AL B H A H A H B H A H A H A H A H A H A H A H A H A H	ERIAL FINISH	H MATERIAL ALUM ALUM HM HM ALUM HM HM HM HM	FRAMETYPEFINWESTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ISH	U/L LABEL U/L LABEL N/L X X	Image: Store Room Image: Store Room	RE DM DM DM DM DM E DM HM FR/ MOTO INSUL DM DM DM	AME #W04 RIZED OVE ATED COILI	REMARKS	BLUFFER'S PARK
			# D101A D101B D102 D103 D104 D105 D106 D106 D107 D108 S [*] D109	ROOM NAME HALL HALL MEETING ROOM STORAGE GARAGE UTILITY ROOM STAFF STORAGE STORAGE AFF WASHROOM HALL	SIZE 1100 × 2428 × 45 1100 × 2428 × 45 1100 × 2428 × 45 2 (815 × 2218 × 45) 5300 × 3018 × 45 2 (1100 × 2428 × 45) 965 × 2428 × 45 815 × 2428 × 45 1010 × 2428 × 45 1010 × 2428 × 45	TYPE MATE B AL B H B H A H A H A H A H A H A H A H A H A H A H A H A H A H A H A H A H	ERIAL FINISH	H MATERIAL ALUM HM HM HM HM ALUM ALUM	FRAME TYPE FIN WEST A	ISH	NIL NIL V NIL X X	HARDWA	RE	AME #W04 RIZED OVE ATED COILI	REMARKS	Data Hours DTAH Architects Limited 425 Adelaide St. W State 00 Stronto, Ontario T4 MSV 3C1 T4 BLUFFER'S PARK BAST WASHROOM
			# D101A D101B D102 D103 D104 D105 D106 D106 D107 D108 S ^T D109 D110 Q1100	ROOM NAME HALL HALL MEETING ROOM STORAGE GARAGE UTILITY ROOM STAFF STORAGE I AFF WASHROOM HALL SHOWER	SIZE 1100 × 2428 × 45 1100 × 2428 × 45 1100 × 2428 × 45 2 (815 × 2218 × 45) 5300 × 3018 × 45 2 (1100 × 2428 × 45) 965 × 2428 × 45 1010 × 2428 × 45 1100 × 2428 × 45 1100 × 2428 × 45 965 × 2428 × 45	TYPE MATE B AL B AL B H A H A AL A H	ERIAL FINIS UM - M PT M PT M PT M PT UM - M PT M PT M PT UM - M PT	H MATERIAL ALUM ALUM HM HM ALUM HM HM HM HM HM HM	FRAMETYPEFINWESTAF	ISH	NIL NIL NIL NIL X X	Image: Strate	RE DM DM DM DM DM E DM HM FR/ MOTO INSUL DM DM DM DM DM DM DM DM DM DM DM	AME #W04 RIZED OVE ATED COILI	REMARKS	DITAH Architects Limited 25 Adelaide St. W Suite 600 TOTAH Architects Limited 26 Adelaide St. W Suite 600 TOTAH Architects Limited 27 Adelaide St. W Suite 600 TOTAH Architects Limited 27 Adelaide St. W Suite 600 TOTAH Architects Limited 26 Adelaide St. W Suite 600 TOTAH Architects Limited 27 Adelaide St. W Suite 600 TOTAH Architects Limited 27 Adelaide St. W Suite 600 TOTAH Architects Limited 28 Adelaide St. W Suite 600 TOTAH Architects Limited 28 Adelaide St. W Suite 600 TOTAH Architects Limited 29 Adelaide St. W Suite 600 TOTAH Architects Limited 29 A
			# D101A D101B D102 D102 D103 D104 D105 D106 D107 D106 D107 D108 S ^T D109 D110 D111 D1112	ROOM NAME HALL HALL MEETING ROOM STORAGE GARAGE UTILITY ROOM STAFF STORAGE I TAFF WASHROOM HALL SHOWER SHOWER OFFICE	SIZE 1100 × 2428 × 45 1100 × 2428 × 45 1100 × 2428 × 45 2 (815 × 2218 × 45) 5300 × 3018 × 45 2 (1100 × 2428 × 45 965 × 2428 × 45 1010 × 2428 × 45 1010 × 2428 × 45 965 × 2428 × 45 965 × 2428 × 45 965 × 2428 × 45 1100 × 2428 × 45 965 × 2428 × 45	TYPE MATE B AL B AL B H A H	ERIAL FINISH UM - M PT M PT M PT M PT M PT M PT M PT M PT	H MATERIAL ALUM HM HM HM ALUM HM HM HM HM HM HM HM HM HM H	FRAME TYPE FIN WEST A	BUILDING - X X T Z X T Z X T Z Z T Z Z Z T Z Z T Z Z Z T Z Z Z T Z Z Z Z	NIL NIL NIL NIL X X	HARDWA	RE DM DM DM DM DM DM DM DM DM DM DM DM DM	AME #W04 RIZED OVE ATED COILI	REMARKS	Decension Data Architects Limited 25 Adelaide St. W Marchitects Limited 25 Adelaide St. W Marchitects Limited 2000 TOTO Marchitects Limited 25 Adelaide St. W Marchitects Limited 2000 Toto Marchitects Limited 2100 Toto
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#	ROOM NAME		SIZE	TYPE	MATER			. TYPE F	INISH	RESHOLD ATHER- RIPPING	- LABEL	CLOSURE	DOOR HALOR HALOR	ARE		REMARKS	DTAH Architects Lim 425 Adelaide St. W Suite 600 Toronto, Ontario
			00 x 2428 x 45	B	ΔΙΙΙΝ	Λ –		WE:					X STOBER				
D101F	B HALL	11	00 x 2428 x 45	B	HM	PT	HM	A	PT	··· ^		x ^	CLASSR	00M			
D102		<u>v</u> 11	00 x 2428 x 45	B	HM	PT	HM	A	PT			x	PASSA	GE			
D103	STORAGE	2 (8	815 x 2218 x 45)) A	HM	PT	HM	A	PT			x	STORER		RAME #W04		
D104	GARAGE	53	300 x 3018 x 45	-	-	-	-	-	-				-	MOT(ORIZED OVEF	RHEAD	
D105	UTILITY ROOM	1 2 (1	100 x 2428 x 45	5) A	ALUN	л –	ALUM	A	-	x x		x	STORER	OOM			
D106	STAFF	9	65 x 2428 x 45	В	HM	PT	HM	A	PT			x	CLASSR				
D107	STORAGE	8	15 x 2428 x 45	A	HM	PT	HM	A .	PT			X X	STORER				BLUFFER'S PARK
D108	HALL	10 11	00 x 2428 x 45	B		л – N			г I _	x x		^ X X	X STORFR				EAST WASHROOM
D110	SHOWER	9	65 x 2428 x 45	A	HM	PT	HM	A	PT			x	PRIVA	CY			1 Brimley Road South
D111	SHOWER	9	65 x 2428 x 45	A	HM	PT	HM	A	PT			x	PRIVA	CY			
D112	OFFICE	11	00 x 2428 x 45	В	HM	PT	HM	A	PT			x	STORER	OOM			
D113	STORAGE	11	00 x 2218 x 45	A	HM	PT	HM	A	PT			x	STORER	00M 25 MN			
D114	WASHROOMS	<u>;</u> 2 (9	965 x 2428 x 45)) B	ALUN	<u>л</u> –	ALUM	A	-	X X		x x	X PASSA	GE W/ BC			Drawing Title
D116		10 ועו <i>ב</i> מ	15 x 2218 x 45	A A	нм НМ		HIM	A A	PT	Y		x x					SCHEDULES-DOORS.
D117	BF WASHROOM	и 10)10 x 2428 x 45	A	HM	PT	HM	A	PT			x	x PRIVA	CY HM FF	RAME #W01		WINDOWS AND ROOM FIN
D118	BF WASHROOM	л <u>1</u> С	010 x 2428 x 45	A	HM	PT	HM	A	PT			x	x PRIVA		RAME #W01		
D119	OFFICE	11	00 x 2428 x 45	В	HM	PT	HM	A	PT			x	STORER	OOM			
D120	STORAGE	9	65 x 2428 x 45	A	HM	PT	HM	A				x	STORER	OOM			
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D201	BF CHANGEROC	OM 11	100 x 2428 x 45		HM	PI PT	HM		PT			^ X	PRIVA		RAME #W04,	50 MM UNDERCUT FOR VENTILATION	
D203	BF CHANGEROC	DM 11	100 x 2428 x 45	A	HM	PT	HM	A	PT			x	PRIVA		RAME #W04,	50 MM UNDERCUT FOR VENTILATION	
D204	CHANGEROOM	/ 9	65 x 2428 x 45	A	HM	PT	HM	A	PT			x	PRIVA		RAME #W04,	50 MM UNDERCUT FOR VENTILATION	Print Date 2025-04-11
D205	CHANGEROOM	/ 9	65 x 2428 x 45	A	HM	PT	HM	A	PT			x	PRIVA		RAME #W04,	50 MM UNDERCUT FOR VENTILATION	Scale AS NOTED
D206	CHANGEROOM	/ 9	65 x 2428 x 45	A	HM	PT	HM	A	PT			x	PRIVA		RAME #W04,		Project No. 21-029 Drawn by SS/NP/RM
0207 חסכם		/I 91 2 (0	טס x 2428 x 45 965 x 2428 x 45	Α) Δ	НМ нм	ТЧ та	НМ	Α Δ	PT			x x			AME # W04,	50 MM UNDERCUT FOR VENTILATION	Checked by MT
D200	SEASONAL VEHIC		965 x 2428 x 45									×	etopep				
	GARAGE DOOR SCHEDULE	2 (5		, A	HIVI			A				^	STORER				A003











CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND CONDITIONS ON THE JOB. DO NOT SCALE DRAWINGS. ALL DRAWING SPECIFICATIONS AND RELATED DOCUENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE ARCHITECT. _____ _____ 2 2025-04-11 Issued for Tender 1 2025-02-12 Issued for Building Permit No. Date Issue Record Description DTAH Architects Limited 425 Adelaide St. W Suite 600 Toronto, Ontario T 416 968 7908 M5V 3C1 www.dtah.com dtah

BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

CONTEXT PLAN

Print Date 2025-04-11 Scale AS NOTED Project No 21-029 Drawn by SS/NP/RM Checked by MT













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ALL DRA ARCHITI SPECIFIC WRITTE THIS DR SIGNED	AWING SPECIFICATION ECT AND MUST BE RET CATIONS AND RELATEI IN PERMISSION. RAWING IS NOT TO BE I BY THE ARCHITECT.	IS AND RELATED DOCUEN FURNED UPON REQUEST. D DOCUMENTS IN PART C USED FOR CONSTRUCTIO	ITS ARE THE COPYRIGHT P REPRODUCTION OF DRAV R IN WHOLE IS FORBIDDE N UNTIL	ROPERTY OF THE VINGS N WITHOUT
LEGE	<u>IND</u>			
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	LINEAR MASC GLAZED BRIC METAL COMP RESERVED MECHANICAL MATERIAL ALUMINUM C HM DOOR VENTILATION MATCHED PRECAST CO CONCRETE F SCUPPER + L WOOD SIDING GLULAM ROC OVERHEAD D LIGHT FIXTUF FIXED SIGNA DOOR OPER/ ELECTRICAL HOSEBIB PRECAST MA	DNRY VENEER CK VENEER POSITE PANEL LOUVER- PAINTE URTAIN WALL LOUVER- INTEG OUNDATION WAL DRAINAGE TROUG G DF BEAM DOOR RE GE ATOR PUSH BUTT OUTLET SONRY SILL	ED TO MATCH AD. RATED INTO FRAM LL- MEDIUM SAN GH	JACENT WA
6 5 4 3 2 1 <i>No.</i> ssue	2025-04-11 2024-09-18 2024-08-16 2024-07-08 2023-01-31 2022-07-29 Date Record	Issued for Tend Issued for Build Issued for 100% Issued for TRC/ Issued for 50% Issued for costin Description	er ing Permit 6 Costing A Costing ng	
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Checked by MT











A504 1:10

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4 SECTION DETAIL @ UTILITY ROOM DOOR





1 SECTION DETAIL @EX-5 & EX-2 FOUNDATION TYP. A504 1:10

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EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

ROOF SECTION DETAILS WEST BUILDING

Print Date2025-04-11Scale1:10Project No.21-029Drawn bySS/NP/RMChecked byMT



- (10) CONCRETE FOUNDATION WALL, SANDBLASTED FINISH AT EXPOSED

- (19) EXTERIOR COVE LIGHT FIXTURE IN PREFABRICATED METAL CASING



1	PLAN DETAIL @ CURTAIN WALL CW01
600	1:10

Drawing Title PLAN DETAILS WEST BUILDING
Displaying Displaying Displaying D
(15) FOOT GRILLE (16) PREFABRICATED CURB FOR ROOFTOP MECHANICAL EQUIPMENT (17) THRU-WALL FLASHING (18) HEAD FLASHING (19) EXTERIOR COVE LIGHT FIXTURE (20) TAPERED INSULATION (21) CONCRETE UNIT PAVERS (22) PREFABRICATED METAL SCUPPER. SEE MISCELLANEOUS METALS A-803 FOR DETAIL 4 2025-04-11 4 2025-04-11 1 Issued for Tender 3 2024-09-18 1 2022-07-29 Issued for Costing 1 2022-07-29 Issued for Costing No. Date Description
LEGEND 1 SEALANT & BACKER ROD 2 BLOCKING 3 PLYWOOD 4 PREFINISHED METAL FLASHING C/W DRIP EDGE & STARTER CLEAT 5 CONTINUOUS FIBRE CANT STRIP 6 SEMI-RIGID INSULATION 7 PHOTOVOLTAIC PANELS ON BALLASTED BASE 8 Z-GIRT 9 ROOF DRAIN 10 CONCRETE FOUNDATION WALL, SANDBLASTED FINISH AT EXPOSED AREAS 11 EXPANSION JOINT 12 AIR BARRIER, LAP AND SEAL AT JAMBS, TYP. 13 MASONRY SILL 14 SOLID SURFACING WINDOW SILL
DO NOT SCALE DRAWINGS. ALL DRAWING SPECIFICATIONS AND RELATED DOCUENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE ARCHITECT. LEGEND (1) SEALANT & BACKER ROD (2) BLOCKING (3) PLYWOOD







<EX6

(13)

EX6



- (20) TAPERED INSULATION
- (21) CONCRETE UNIT PAVERS
- (22) PREFABRICATED METAL SCUPPER. SEE MISCELLANEOUS METALS A-803 FOR DETAIL





BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

PLAN DETAILS EAST BUILDING

Print Date 2025-04-11 1:10 Scale Project No 21-029 Drawn by SS/NP/RM Checked by MT



COAT HOOKS

SANITARY

SOAP

500

DISPENSER

ADUL1



MR MRT HD SD BC ND GB СН ACT ACH SS SHOWER SEAT AUTOMATIC SOAP DISPENSER ASD DWD DYSON WASH/DRY FIXTURE

Scale: NTS



BOBRICK SOLID PHENOLIC FOLDING

SHOWER/DRESSING AREA SEAT, B-5191

EZFILL AUTOMATIC DECK MOUNTED SOAP

DISPENSER

DYSON AIRBLADE™ WASH + DRY 247659-01







Print Date 2025-04-11 1:50 Scale Project No 21-029 Drawn by SS/NP/RM Checked by MT

PHENOLIC

STAINLESS STEEL

STAINLESS STEEL















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LEGEND T1- FLOOR TILE

T2 - WALL TILE WD- COMPOSITE WOOD PAINTED SLAT CB - CONCRETE BLOCK CONC - FOUNDATION WALL GWB - GYPSUM WALL BOARD PH - PHENOLIC SS - STAINLESS STEEL SSB - STAINLESS STEEL BASE BOARD GBV- GLAZED BRICK VENEER AP- ACCESS PANEL. SEE MECHANICAL WOOD - WOOD PANEL





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BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

INTERIOR ELEVATIONS EAST AND WEST BUILDINGS

1:50

Print Date 2025-04-11 Scale Project No 21-029 Drawn by SS/NP/RM Checked by MT

A802









1 KEY PLAN- EAST BUILDING A802 Scale 1:150





5 DETAIL SECTION - BLUFFERS SIGN A803 Scale: 1:5











700

P2A

400



3 STAFF ROOM MILLWORK W/ SINK



STAFF ROOM MILLWORK W/ REFRIGERATOR A804 Scale: 1:10



A805 Scale: 1:10

A805 Scale: 1:10

A805 Scale: 1:10





2 STAFF ROOM MILLWORK W/ TWO-TIER LOCKER



3D VIEW

BLUFFER'S PARK EAST WASHROOM

TOR.130977.0001

1 Brimley Road South, Scarborough, Toronto, ON

ISSUED FOR TENDER



STRUCTURAL DRAWING LIST

COVER
GENERAL NOTES & TYPICAL DETAILS
BOARD WALK LOADING PLAN
GROUND FLOOR / FOUNDATION PLAN
GROUND FLOOR / FOUNDATION PLAN (EAST BLDG)
GROUND FLOOR / FOUNDATION PLAN (WEST BLDG)
GROUND FLOOR / FOUNDATION PLAN (EAST BLDG) - PRELIMINARY GEOPIER LAYOUT
GROUND FLOOR / FOUNDATION PLAN (WEST BLDG) - PRELIMINARY GEOPIER
GROUND FLOOR / FOUNDATION PART PLAN (BOARDWALK)
GROUND FLOOR / FOUNDATION PART PLAN (BOARDWALK)
 GROUND FLOOR / FOUNDATION PART PLAN (OUTDOOR SHOWERS)
ROOF FRAMING PLAN (EAST BLDG)
KOOF FRAMING PLAN (WEST BLDG)
 WALL ELEVATIONS - EAST BLDG
WALL ELEVATIONS - EAST BLDG
WALL ELEVATIONS - WEST BLDG
WALL ELEVATIONS - WEST BLDG
SECTIONS & DETAILS

		Read Jones Christoffersen L Engineers rjc.ca
		, 100 University Avenue, North Tower, Suite 400 Toronto, ON M5J 1V6 Canada tel 416-977-5335
Drav 1. A d (' ir a V th	wing Notes NII drawings, plan locuments prepa "RJC") and used nstruments of se und as such are a Vork is executed hem and in the V e used for any o	s, models, designs, specifications and othe red by Read Jones Christoffersen Ltd. in connection with this project are rvice for the work shown in them (the "Work and remain the property of RJC whether the or not, and RJC reserves the copyright in Vork executed from them, and they shall not ther work or project
2. T s b ແ is	These drawings a uitable for use a ase drawings for vritten permission s obtained from F com what is show	re "design drawings" only. They may not be s shop drawings. Use of these drawings as "shop drawings" is not permitted unless n containing certain conditions and limitation RJC. The work "as constructed" may vary yn on these drawings
3. L ls u ls T "1 "1	Jse of these drav ssued/Revision of inless marked "Is ssued/Revision of 'he drawings sha tender" unless so Pricing" or "Costi rices based on s	vings is limited to that identified in the column. Do not construct from these drawing seued for Construction" by RJC in the column, and then only for the parts noted. Il not be used for "pricing" / "costing" or o indicated in the Issued/Revisions column. ing" drawings are not complete and any such drawings must allow for this.
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4 3	2025-04-11 2025-01-29	CLARIFICATIONS TO CITY
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3D MODEL NOTE

STRUCTURAL ELEMENTS AND THEIR CONFIGURATION DETAILS ARE NOT PRESENTED IN THE 3D MODEL VIEW FOR TENDERING OR CONSTRUCTION PURPOSES AND ARE FOR INFORMATION ONLY.

Sheet Number

Project No. 21-029 Drawn By DP Checked By GJ

Scale

Print Date 2025-04-14 4:25:43 PM

1:1

	D S	ELEGATED DESIGN OF PRIMARY TRUCTURE COMPONENTS
	1.	THE CONTRACTOR SHALL ENGAGE A SPECIALTY ENGINEER FOR THE DESIGN OF REQUIRED STRUCTURAL ELEMENTS AND REQUIRED STRUCTURAL CONNECTIONS NOT INDICATED IN THE DRAWINGS.
	2.	STRUCTURAL COMPONENTS REQUIRING DESIGN COMPLETED BY THE CONTRACTOR'S SPECIALTY ENGINEER INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
		 A. STRUCTURAL STEEL CONNECTIONS B. STEEL DECK C. OPEN WEB STEEL JOISTS AND JOIST GIRDERS D. COLD FORMED LIGHTWEIGHT STEEL FRAMING E. MISCELLANEOUS STEEL F. MORTAR, GROUT AND CONCRETE MIX DESIGNS G. PRECAST SLABS, BEAMS, GIRDERS, COLUMNS, INCLUDING CONNECTIONS H. POST-TENSIONED SYSTEMS (SEE P/T GENERAL NOTES) I. PRE-FABRICATED WOOD I-JOISTS J. GLUE-LAMINATED AND STRUCTURAL COMPOSITE LUMBER MEMBERS INCLUDING WOOD-TO-WOOD CONNECTIONS
	3.	DESIGNS PRODUCED BY THE SPECIALTY ENGINEER SHALL CONSIDER STRENGTH, STABILITY, SERVICEABILITY AND INTEGRITY REQUIREMENTS UNDER GRAVITY AND SEISMIC LOADING AND THE DURABILITY FOR PREVAILING ENVIRONMENTAL AND EXPOSURE CONDITIONS. ALL DESIGNS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF APPLICABLE DESIGN CODES AND ALL OTHER DESIGN REQUIREMENTS INDICATED IN THE DRAWINGS AND SPECIFICATIONS. DESIGNS SHALL INCLUDE SUITABLE LETTERS OF ASSURANCE.
	4.	DESIGN OF COMPONENTS AND CONNECTIONS THAT RELY ON SUPPORT BY THE PRIMARY STRUCTURE DESIGNED BY RJC OR COMPONENTS DESIGNED BY OTHER SPECIALTY ENGINEERS MUST CLEARLY INDICATE THE MEANS AND METHOD OF ATTACHMENT AND THE MAGNITUDE OF ALL FORCES (SPECIFIED AND FACTORED) THAT THE PRIMARY STRUCTURE MUST WITHSTAND. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD MAY REQUIRE REVISION TO THE METHOD OF CONNECTION WITH REDESIGN BY THE SPECIALTY ENGINEER.
	5.	SPECIALTY ENGINEERS ENGAGED BY THE CONTRACTOR SHALL BE REGISTERED AS PROFESSIONAL ENGINEERS IN THE PROVINCE OF ONTARIO AND ALL SUBMITTALS OR SHOP DRAWINGS PREPARED BY OR UNDER THE SUPERVISION OF THIS ENGINEER SHALL BE SIGNED. UNSEALED PROGRESS DOCUMENTS WILL BE REJECTED BY RJC WITHOUT REVIEW UNLESS PRIOR AGREEMENT IS OBTAINED.
	6.	WHERE STRUCTURAL COMPONENTS OR CONNECTIONS DESIGNED BY THE SPECIALTY ENGINEER ARE TO BE FABRICATED IN A DIFFERENT JURISDICTION, THE SPECIALTY ENGINEER SHALL SUBMIT A SEALED LETTER CONFIRMING PROOF OF PROFESSIONAL REGISTRATION IN THE JURISIDICTION OF FABRICATION.
	7.	THE SPECIALTY ENGINEER RESPONSIBLE FOR THE DESIGN IS ALSO RESPONSIBLE FOR REVIEW OF FABRICATION, INSTALLATION AND APPLICABLE TESTING REPORTS. UPON COMPLETION OF THE WORK, SUBMIT SCHEDULE S-B'S AND S-C'S TO THE ENGINEER OF RECORD.
	8.	REFER TO THE DRAWINGS AND SPECIFICATIONS FOR OTHER REQUIREMENTS.
Γ	S	HOP DRAWINGS
	1.	AS PART OF OUR CONSTRUCTION PHASE SERVICES, RJC WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON RJC'S DRAWINGS BY MEANS OF APPROPRIATE RATIONAL SAMPLING PROCEDURES AND COMMENT ON THE ACCURACY WITH WHICH THE CONTRACTOR PREPARED THE DRAWINGS.
	2.	REVIEW OF SHOP DRAWINGS IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND IS NOT AN APPROVAL OF THE DETAILED DESIGN INHERENT IN THE SHOP DRAWINGS, RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS AND FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DRAWINGS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INFORMATION PERTAINING TO THE FABRICATION PROCESS, TECHNIQUES FOR CONSTRUCTION AND INSTALLATION, AND FOR CO-ORDINATION OF THE WORK OF ALL SUB-TRADES.
	3.	FOR SPECIFIC SHOP DRAWING SUBMITTAL REQUIREMENTS, SEE APPROPRIATE MATERIAL SECTIONS AND THE SPECIFICATIONS.
	4.	SHOP DRAWINGS SHALL BE COMPLETE AND INCLUDE ANY REQUIRED SEALS FROM A PROFESSIONAL ENGINEER REGISTERED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED PRIOR TO SUBMISSION.
	F	

ALL SHOP DRAWINGS COMPRISING A REVISED SUBMISSION SHALL INDICATE THE REVISED CONTENT BY MEANS OF CLOUDING OR OTHER SUITABLE MARKINGS.

DESIGN LOADS

FLOOR LOADING:

FLOOR PLAN LOADING IS SHOWN ON PLANS.

STRUCTURAL DEAD LOADS (D.L.) ARE DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. THEY VARY WITH THE STRUCTURAL SYSTEM AND INCLUDE CONCRETE TOPPINGS ON STEEL DECK.

LIVE LOADS HAVE BEEN REDUCED FOLLOWING THE PROVISIONS SET FORTH IN CLAUSE 4.1.5.8 IN THE ONTARIO BUILDING CODE 2012 O.REG 88/19 FOR THE PURPOSE OF DESIGNING COLUMNS, WALLS, TRANSFER BEAMS, TRANSFER SLABS, AND FOUNDATIONS.

CLADDING LOADS:

A. CURTAIN AND WINDOW WALL	- 1.0 kPa VERTICAL SURFACE
B. GRANITE (32mm) CLADDING IN	
ALUMINUM CURTAIN WALL FRAME	- 2.0 kPa VERTICAL SURFACE
C. BRICK ON METAL STUD	- 2.5 kPa VERTICAL SURFACE
D. PRECAST WITH WINDOWS (45%)	- 3.0 kPa VERTICAL SURFACE

SPECIFIED CONCENTRATED LOADS ARE AS FOLLOWS U.N.O. ON PLAN:

Α.	ROOFS 1.3 kN
В.	FLOOR OF CLASSROOMS 4.5 kN
C.	FLOORS - OFFICES, HOSPITALS, STAGES,
	MANUFACTURING BUILDINGS, RETAIL 9 kN
D.	FLOORS - PARKING 18 kN
E.	LOADING DOCKS AND SUSPENDED PLAZAS WITH
	FIRE TRUCK ACCESS (TANDEM AXLE LOADS) 256 kN

	FIRE TRUCK ACCESS (TANDEM AXLE LOADS) 2	256
F.	LOADING DOCKS AND SUSPENDED PLAZA SLABS	
	WITHOUT FIRE TRUCK ACCESS	54 I

RAIN PONDING LOADS ON ROOFS ARE BASED ON ROOF SLOPES, 4. PARAPET HEIGHTS AND SCUPPER LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS. DEPTH OF PONDING ASSUMES THAT ALL ROOF DRAINS ARE ACCIDENTALLY PLUGGED FOR A MAXIMUM PERIOD OF 24 HOURS, UNLESS NOTED OTHERWISE.

ONE DAY RAIN, (1/50) =

LATERAL LOADS ON FOUNDATION WALLS.

A. FOUNDATION WALLS RETAINING EARTH ARE DESIGNED TO RESIST A HORIZONTAL PRESSURE AT ANY DEPTH PER THE GEOTECHNICAL REPORT BASED ON FOLLOWING:

mm

EARTHQUAKE SOIL PRESSURE:	PE = N/A
SOIL PRESSURE COEFFICIENT:	K = 0.5
DEPTH BELOW GROUND WATER LEVEL:	Hw = 0 (Free draining)
DRY UNIT WEIGHT OF SOIL:	q = 21.0 kN/m ³
SURFACE SURCHARGE:	q = 12 kPa

- B. THE SUBSTRUCTURE HAS BEEN DESIGNED TO RESIST UNBALANCED SOIL PRESSURE ACTING ON FOUNDATION WALLS AND RESISTED BY THE SHEAR WALLS AND FOUNDATION WALLS. THE UNBALANCED SOIL PRESSURE HAS BEEN CALCULATED BASED ON THE SOILS REPORT, AND IT IS A CONSEQUENCE OF:
 - FINISHED GRADE ELEVATION
- SLOPING GRADE - EXPANSION JOINTS
- EXISTING BASEMENTS ON SURROUNDING PROPERTIES.

C. DO NOT BACKFILL WALLS UNTIL LATERALLY SUPPORTED BY COMPLETED FLOOR AND/ OR ROOF STRUCTURE.

WATER TABLE: THIS BUILDING IS NOT DESIGNED AS A TANKED

LOADS TO EXISTING STRUCTURES: 7

A. FOUNDATION SURCHARGE

B. SNOW DRIFTING

DESIGN LOADS - TRUCK LOADS

TRUCK LOADS:

STRUCTURE.

AREAS ACCESSIBLE TO FIRE TRUCKS INDICATED ON THE PLANS. THESE AREAS HAVE BEEN DESIGNED FOR THE LOADING SHOWN BELOW, OR LL=12.0 kPa UNIFORM LOAD U.N.O.:

NOTE:

USE 1.3 FACTOR FOR IMPACT LOAD EFFECT. Ps=SERVICE LOAD, Ac=CONTACT AREA, AL=AXLE LOAD



ABBREVIATIONS

\ESS	ACCOMMODATE	L.T.S	LENGTH TO SUIT
	ARCHITECTURALY EXPOSED	L.V	LENGTH VARIES
	STRUCTURAL STEEL	I W	LONG WAY
١f			
ALI	ALTERNATE	MAX	MAXIMUM
ALUM	ALUMINUM	MECH	MECHANICAL
∖.R	ANCHOR ROD	Mf	FACTORED MOMENT
ARCH	ARCHITECTURAL	Mfx	STRONG AXIS BENDING
3 C F	BOTTOM CHORD EXTENSION		MOMENT
3 E W		Mfv	WEAK AXIS BENDING
		wiry	
5.L.L	BOTTOWILOWERLAYER		
3.L.W	BOTTOM LONG WAY	MIN	MINIMUM
ЗМ	BEAM	Mtf	FACTORED TORSION
30T	BOTTOM	N.F	-NEAR FACE
3.S.W	BOTTOM SHORT WAY	NIC	NOT IN CONTRACT
		N.C.	
D.U.L		N.S	
3.VV	BOTH WAYS	N.I.S	NOT TO SCALE
C.A	COLUMN ABOVE	0.C	ON CENTER
CANT	CANTILEVER	O/C	ON CENTER
С.В	COLUMN BELOW	O.F	-OUTSIDE FACE
CBM	COUPLING BEAM	OPP	OPPOSITE
⊃f		0.1.0	
		0.11.0.0.	
		PI	
J.I.P	CAST IN PLACE	P.P	PARTIAL PENETRATION
C.J	CONTROL JOINT	P/T	POST-TENSIONING
CL	CENTER LINE	R.D	ROOF DRAIN
	CLEAR	REO'D	REQUIRED
		N.U	
CONC	CONCRETE	RIN	RETURN
CONT	CONTINUOUS	R/W	REINFORCED WITH
C.P	COMPLETE PENETRATION	R.W.L	RAIN WATER LEADER
TRS	CENTERS	S A M	SELE-ADHERED MEMBRANE
		S D E	
		3.D.F	
JRW	DIVIDER BEAM	S.D.L	SUPERIMPOSED DEAD LOAD
DET	DETAIL	SIM	SIMILAR
D.L	DEAD LOAD	S.L	SNOW LOAD
0	DOOVER - (DITTO)	SIBB	SHORT LEGS BACK TO BACK
סר		SI S	
	DEEF (E.G. DEF ITTOF DEAM)	SOC	
J.T.S	DEPTHIO SUI	SUG	SLAB ON GRADE
DWG	DRAWING	SPEC	SPECIFICATIONS
DWLS	DOWELS	SR	HEADED STUD ASSEMBLY
EA	EACH	S.S	STAINLESS STEEL
= F		SST	SIMPSON STRONG-TIE
		о.о.т. от	
□.Γ		31	STAGGER
=L	ELEVATION	STAG	STAGGER
ELEV	ELEVATOR	STIR	STIRRUP
ELEC	ELECTRICAL	STL	STEEL
-0	FOUAL	SW	SHORT WAY
- 9		SVM	SYMMETRICAL
- \\\/			
Z.VV.		1 &D	
-XIST	EXISTING	T&C	TENSION AND COMPRESSION
EXP. JT	EXPANSION JOINT	T&G	TONGUE AND GROOVE
EXT	EXTERIOR	T.D.C	TRAFFIC DECK COATING
	FLOOR DRAIN	T F W	TOP FACH WAY
		Tf	
F		11	FACTORED AXIAL TENSION
- S	FAR SIDE		
			FURGE
-TG	FOOTING	THK	THICK
 TG GA	FOOTING GAUGE	THK THRU	THICK THROUGH
0. -TG GA GALV	FOOTING GAUGE GALVANIZED	THK THRU T.J	THICK THROUGH TIE JOIST
 TG GA GALV S L	FOOTING GAUGE GALVANIZED GRID LINE	THK THRU T.J	THICK THROUGH TIE JOIST TOP LOWER LAYER
 	FOOTING GAUGE GALVANIZED GRID LINE CRADE REAM	THK THRU T.J T.L.L	THICK THROUGH TIE JOIST TOP LOWER LAYER
G GA GALV GR. BM GR. BM	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM	THK THRU T.J T.L.L T.O	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF
G GA GALV G.L GR. BM G.W.B	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD	THK THRU T.J T.L.L T.O T.O.C	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE
 FTG GALV G.L GR. BM G.W.B H., HORIZ	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL	THK THRU T.J T.L.L T.O T.O.C T.O.F	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION
-: FTG GA GA. V G. BM G. W. B H., HORIZ H., HORIZ I. 1. E	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END	THK THRU T.J T.O T.O.C T.O.F T.O.S	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB
-:	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL
	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S.S T.O.S.S	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL
	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S.S T.O.W	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL
	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S.S T.O.W TR	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER
TG GA GALV GR. BM GR. BM G.W.B G.W.B H. HORIZ 1.1.E 1.2.E 1.2.E 1&V 1.D.G ff	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S.S T.O.W TR T.U.L	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER
-: FTG GALV G.L GR. BM G.W.B G.W.B H., HORIZ H.1.E H.1.E H.2.E H.2.E H.2.E H.D.G Hf	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE	THK THRU T.J T.O T.O.C T.O.S T.O.S.S T.O.W TR T.U.L TYP	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL
1.0. TG GA GALV G.L G.W.B G.W.B G.W.B H. HORIZ 1.1.E 1.2.E 1.2.E 1.2.E 1.0.G 1.1.P	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT	THK THRU T.J T.O T.O.F T.O.S T.O.S.S T.O.W TR TR TYP ULS	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE
1.0. TG GALV G.L G.R. BM G.W.B G.W.B H., HORIZ 1.1.E 1.2.E 1.2.E 1.2.E 1.0.G 1.D.G 1.0.C 1.0.C	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED	THK THRU T.J T.O T.O.C T.O.S T.O.S T.O.S T.O.W TR TR TYP ULS U.N O	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE
1 TG GALV GL GR. BM G.W.B G.W.B H., HORIZ 1.1.E 1.2.E 1.2.E 1.D.G 1f 1.P 1.S.C	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S.S T.O.W TR TR TYP ULS U.N.O	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE
1 TG GALV GALV GR. BM G.W.B G.W.B H., HORIZ 1.1.E 1.2.E 1.2.E 1.D.G 1.D.G 1.P 1.S.C	FOOTING GAUGE GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S T.O.W TR TR TYP ULS ULS U.N.O U.N.O	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE
1 TG GALV GALV G.L G.W.B G.W.B G.W.B H.O.R 1.2.E 1.2.E 1.D.G 1.D.G 1.D.G 1.D.G 1.T	FOOTING GAUGE GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S T.O.W T.O.W TR TR TYP ULS ULS U.N.O U/S V., VERT	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL
	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S T.O.W T.O.W TR TR ULS ULS ULS U/S V., VERT Vf	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE
TG GA GA GA. V G.L G.W.B G.W.B G.W.B H.O.B H.D.G H.D.G H.P H.P H.S.C HT NT	FOOTING GAUGE GAUVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S T.O.W TR TR TYP ULS ULS ULS U/S V., VERT Vf V.S.C	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED
1	FOOTING GAUGE GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR JOINT	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S T.O.W T.O.W TR TR ULS ULS ULS U/S V., VERT Vf V.S.C	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED CONNECTION
1 TG GA GA GALV G.L G.W.B G.W.B G.W.B H.O.R 1.2.E 1.2.E 1.2.E 1.2.E 1.2.E 1.0.G 1.D.G	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR JOINT LONG	THK THRU T.J T.O T.O.C T.O.F T.O.S T.O.S T.O.W T.O.W TR TYP ULS ULS U.N.O U/S V., VERT Vf V.S.C	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED CONNECTION
1	FOOTING GAUGE GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR JOINT LONG	THK THRU T.J T.O T.O.F T.O.S T.O.S T.O.S T.O.W TR TR TYP ULS ULS ULS U/S V., VERT Vf VS.C	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED CONNECTION WITH
1	FOOTING GAUGE GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR JOINT LONG LIVE LOAD	THK THRU T.J T.O T.O.F T.O.S T.O.S T.O.S T.O.W TR TR TYP ULS ULS ULS U.N.O U/S V., VERT Vf V.S.C W/ W.A	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED CONNECTION WITH WALL ABOVE
TG GA GA GALV GR. BM GR. BM G.W.B G.W.B H.O.G H.D.G H.D.G H.P H.P H.P H.S.C H H G L.B.B	FOOTING GAUGE GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR JOINT LONG LIVE LOAD LONG LEGS BACK TO BACK	THK THRU T.J T.O T.O.F T.O.S T.O.S T.O.S T.O.W TR TR TYP ULS ULS U.N.O U/S V., VERT Vf V.S.C W/ W.A W.B	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED CONNECTION WITH WALL ABOVE WALL BELOW
	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR JOINT LONG LIVE LOAD LONG LEGS BACK TO BACK LONG LEG HORIZONTAL	THK THRU T.J T.O T.O.F T.O.S T.O.S T.O.S T.O.W TR TR TYP ULS ULS ULS V., VERT Vf V.S.C W/ W.A W.B W.P	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED CONNECTION WITH WALL ABOVE WALL BELOW WORK POINT
-TG GA GALV GALV G. BM G. W.B G.W.B H., HORIZ 1.1.E 1.2.E 1.2.E 1.D.G	FOOTING GAUGE GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR JOINT LONG LIVE LOAD LONG LEGS BACK TO BACK LONG LEG HORIZONTAL LONG LEG VERTICAL	THK THRU T.J T.O T.O.F T.O.S T.O.S T.O.S T.O.W T.O.W TR T.U.L TYP ULS ULS U.N.O U.S V., VERT Vf V.S.C W/ W.A W.B W.P WT	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED CONNECTION WITH WALL ABOVE WALL BELOW WORK POINT WEIGHT
TG GA GALV GALV GR. BM G.W.B G.W.B H., HORIZ H.R H.C.G H.P H.P H.P H.P H.P H.P H.P L.C L.L.B.B L.L.H P P	FOOTING GAUGE GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR JOINT LONG LIVE LOAD LONG LEGS BACK TO BACK LONG LEG HORIZONTAL LONG LEG VERTICAL LONG LEG VERTICAL	THK THRU T.J T.O.C T.O.F T.O.S T.O.S T.O.S T.O.W TR TR TYP ULS ULS ULS V., VERT Vf V.S.C W/ W.A W.B W.P W.R W.R	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED CONNECTION WITH WALL ABOVE WALL BELOW WORK POINT WEIGHT
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TG GA GALV GALV G.L G.W.B G.W.B H. HORIZ 1.1.E 1.2.E 1.2.E 1.D.G	FOOTING GAUGE GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR JOINT LONG LIVE LOAD LONG LEGS BACK TO BACK LONG LEG HORIZONTAL LONG SIDE HORIZONTAL	THK THRU T.J T.O T.O.F T.O.S T.O.S T.O.S T.O.W TR TR TR ULS ULS ULS ULS ULS V., VERT V, VERT Vf V.S.C W/ W.A W.B W.R W.R W.R W.R W.R	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED CONNECTION WITH WALL ABOVE WALL BELOW WORK POINT WEIGHT VERTICAL BRACING, VERTICAL CROSS BRACING
TG GA GALV GALV G.L G.W.B G.W.B G.W.B H.O.G H.D.G	FOOTING GAUGE GALVANIZED GRID LINE GRADE BEAM GYPSUM WALL BOARD HORIZONTAL HOOK ONE END HOOK TWO ENDS HORIZONTAL AND VERTICAL HOT-DIP GALVANIZED FACTORED HORIZONTAL FORCE HIGH POINT HORIZONTALLY SLOTTED CONNECTION HEIGHT INSIDE FACE INTERIOR JOINT LONG LIVE LOAD LONG LEGS BACK TO BACK LONG LEG HORIZONTAL LONG LEG VERTICAL LONG SIDE HORIZONTAL LONG SIDE HORIZONTAL LONG SIDE VERTICAL	THK THRU T.J T.O T.O.F T.O.S T.O.S T.O.S T.O.W T.O.W TR TR T.U.L TYP ULS ULS ULS ULS V., VERT V, VERT Vf V.S.C W.A W.A W.B W.P WT VXB	THICK THROUGH TIE JOIST TOP LOWER LAYER TOP OF TOP OF CONCRETE TOP OF FOUNDATION TOP OF SLAB TOP OF SLAB TOP OF STRUCTURAL STEEL TOP OF WALL TRANSFER TOP UPPER LAYER TYPICAL ULTIMATE LIMIT STATE UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL FACTORED SHEAR FORCE VERTICALLY SLOTTED CONNECTION WITH WALL ABOVE WALL BELOW WORK POINT WEIGHT VERTICAL BRACING, VERTICAL CROSS BRACING
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DESIGN LOADS - SEISMIC AND WIND

- SEISMIC AND WIND DESIGN: THE LATERAL SYSTEM FOR THE EAST AND WEST BUILDINGS CONSIST OF SHEAR WALLS AND IS DESIGNED FOR THE FOLLOWING EARTHQUAKE FACTORS:
- 1a. EARTHQUAKE DESIGN PARAMETERS

Sa (0.2) =0.219	SITE CLASSIFICATION: SITE CLASS D				
Sa (0.5) =0.116	le =1.0	Fa =1.222	BUILDING	Ta (Sec)	
Sa (1.0) =0.060	Rd =1.5 Po =1.5	Fv =1.531	EAST	0.232	
Sa (2.0) =0.029 Sa (0.2)Fale =0.268	NU = 1.5		WEST	0.247	

- 1b. WIND DESIGN PARAMETERS:
- Ce, Cg, and Cp ARE BASED ON OBC CL. 4.1.7. q50 =0.47 kPa, lw = 1.0 ULS, 0.75 SLS

WIND UPLIFT LOADS ON STEEL OR WOOD ROOFS SHALL BE 1 kPa NET UNLESS NOTED OTHERWISE ON PLAN.

FACTORED BASE FORCES. 1c.

> MAXIMUM BASE SHEARS AND OVERTURNING MOMENT FOR THE STRUCTURE THROUGH STATIC ANALYSIS ARE:

	EAST BUILD	NG
	SHEAR	MOMENT
- NORTH/SOUTH DIRECTION -	35 kN	90 kNm
- EAST/WEST DIRECTION -	75 kN	185 kNm
- NORTH/SOUTH DIRECTION -	120 kN	520 kNm
- EAST/WEST DIRECTION -	120 kN	520 kNm
	WEST BUILI	DING
	SHEAR	MOMENT
- NORTH/SOUTH DIRECTION -	120 kN	300 kNm
- EAST/WEST DIRECTION -	120 kN	300 kNm
- NORTH/SOUTH DIRECTION -	200 kN	860 kNm
- EAST/WEST DIRECTION -	200 kN	860 kNm
	 NORTH/SOUTH DIRECTION - EAST/WEST DIRECTION - NORTH/SOUTH DIRECTION - EAST/WEST DIRECTION - EAST/WEST DIRECTION - NORTH/SOUTH DIRECTION - EAST/WEST DIRECTION - EAST/WEST DIRECTION - 	 NORTH/SOUTH DIRECTION - EAST/WEST DIRECTION - EAST/WE

DRAWINGS

- THIS SET OF DRAWINGS SHOWS THE COMPLETED PROJECT. THE DRAWINGS DO NOT SHOW COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORMWORK, FALSE WORK, SHORING, ETC. REQUIRED TO COMPLETE THE WORK.
- THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISIONS COLUMN, BY READ JONES CHRISTOFFERSEN LTD. THE DRAWINGS SHALL NOT BE USED FOR PRICING, COSTING, OR TENDER UNLESS SO INDICATED IN THE REVISION COLUMN. PRICING OR COSTING DRAWINGS ARE NOT COMPLETE AND ANY PRICES BASED ON PRICING OR COSTING DRAWINGS MUST INCLUDE ALLOWANCES FOR THIS.
- THE INFORMATION ON THESE DRAWINGS SHALL NOT BE USED FOR ANY OTHER PROJECT OR WORKS. THE INFORMATION ON THESE DRAWINGS APPLIES SOLELY TO THIS PROJECT.

GENERAL

- SECTION MARK SHOWN THUS / MEANS SECTION #4 ON DRAWING S-3. **S-3**
- SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, NAILERS, INSERTS, ETC., TO BE ENCASED IN CONCRETE.
- SEE ARCHITECTURAL DRAWINGS FOR FLOOR AND ROOF ELEVATIONS, RECESSES, DRAINAGE SLOPES, ETC.
- THE GENERAL CONTRACTOR SHALL REVIEW ALL THE DRAWINGS AND 4. CHECK DIMENSIONS BEFORE CONSTRUCTION. REPORT DISCREPANCIES BETWEEN STRUCTURAL AND OTHER DISCIPLINES DRAWINGS FOR CLARIFICATION.
- CONCRETE WORK SHALL CONFORM TO CSA A23.1, CSA A23.2, CSA A23.3 AND REFERENCED DOCUMENTS.
- STRUCTURAL STEEL WORK SHALL CONFORM TO CSA S16 AND REFERENCED DOCUMENTS.
- FIRE RESISTANCE RATINGS SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PRECISE LOCATION OF REQUIRED FIRE RESISTANCE RATINGS.
- 8. DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION OF RJC.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND LANDSCAPE DRAWINGS FOR LOCATIONS, CONFIGURATIONS, EXTENT, AND SIZES OF ALL CURBS, UPSTANDS, DOWNTURNS; AND FOR OPENINGS THROUGH FLOORS AND WALLS FOR DUCTS, CONDUIT AND PIPING. PROVIDE FOR SAME.
- 10. <u>DEFINITIONS</u>:
 - RJC: READ JONES CHRISTOFFERSEN OR ITS REPRESENTATIVE.
 - SPECIALTY STRUCTURAL ENGINEER: A STRUCTURAL ENGINEER REGISTERED AND LICENSED TO PRACTICE BY THE PROFESSIONAL ENGINEERING ASSOCIATION HAVING JURISDICTION IN THE AREA WHERE THE STRUCTURE IS TO BE BUILT AND WHO IS RESPONSIBLE FOR THE DESIGN AND FIELD REVIEW OF:
 - STRUCTURAL ELEMENTS DESIGNED BY THE CONTRACTOR OR SUBCONTRACTORS, SUCH AS OPEN WEB STEEL JOISTS, PRECAST DOUBLE TEES, PRECAST PLANKS, STRUCTURAL STEEL CONNECTIONS, LIGHT WOOD FRAME ROOF TRUSSES, ETC.
 - SECONDARY STRUCTURAL ELEMENTS AND NON-STRUCTURAL ELEMENTS. SEE ALSO "NON-STRUCTURAL ELEMENTS" GENERAL NOTES.
 - CONTINUOUS: FULL TENSION SPLICE AND TENSION DEVELOPMENT LENGTH
 - EMBEDMENT: UNLESS NOTED OTHERWISE COMPRESSION D. EMBEDMENT MEANS A COMPRESSION DEVELOPMENT LENGTH AND TENSION EMBEDMENT MEANS A TENSION DEVELOPMENT LENGTH AS PER CAN/CSA-A23.3 AND AS SHOWN ON THESE GENERAL NOTES DRAWINGS.
 - GENERAL CONTRACTOR: FOR THE PURPOSES OF THESE DRAWINGS, THE USE OF THE TERM "CONTRACTOR" OR "GENERAL CONTRACTOR" SHALL REFER TO THE PRIME PERSON OR COMPANY RESPONSIBLE FOR CONSTRUCTION OF THE PROJECT AND THE COORDINATION OF TRADES AND SUBCONTRACTORS. THIS MAY BE THE GENERAL CONTRACTOR, OR A CONSTRUCTION MANAGER.

DESIGN CODE

THE COMPLETED BASE BUILDING STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED IN SUBSTANTIAL ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012 O.REG 88/19 WHICH IS BASED ON THE NATIONAL BUILDING CODE OF CANADA 2015.

FIELD REVIEW BY **READ JONES CHRISTOFFERSEN (RJC)**

- READ JONES CHRISTOFFERSEN PROVIDES FIELD REVIEW ONLY FOR THE WORK SHOWN ON THESE STRUCTURAL DRAWINGS. THIS REVIEW IS NOT A "FULL TIME" REVIEW BUT IS CONDUCTED WITH SUCH FREQUENCY AS RJC DEEMS APPROPRIATE TO OBSERVE VARIOUS STAGES OF THE WORK AND TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY READ JONES CHRISTOFFERSEN, FIELD REVIEW BY READ JONES CHRISTOFFERSEN IS NOT CARRIED OUT FOR THE CONTRACTOR'S BENEFIT, NOR DOES IT MAKE READ JONES CHRISTOFFERSEN GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. RJC SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PROVIDE 24 HOURS ADVANCE NOTICE OF EACH REQUIRED FIELD REVIEW. FIELD REVIEWS SHALL BE SCHEDULED TO BE CARRIED OUT DURING NORMAL BUSINESS HOURS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH RJC.
- 3. THE WORK TO BE REVIEWED SHALL BE GENERALLY COMPLETE.



Creative Thinking Practical Results

Read Jones Christoffersen Ltd. Engineers rjc.ca

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Drawing Notes

- 1. All drawings, plans, models, designs, specifications and other documents prepared by Read Jones Christoffersen Ltd. ("RJC") and used in connection with this project are instruments of service for the work shown in them (the "Work") and as such are and remain the property of RJC whether the Work is executed or not, and RJC reserves the copyright in them and in the Work executed from them, and they shall not be used for any other work or project.
- These drawings are "design drawings" only. They may not be suitable for use as shop drawings. Use of these drawings as base drawings for "shop drawings" is not permitted unless written permission containing certain conditions and limitations is obtained from RJC. The work "as constructed" may vary from what is shown on these drawings.
- 3. Use of these drawings is limited to that identified in the Issued/Revision column. Do not construct from these drawings unless marked "Issued for Construction" by RJC in the Issued/Revision column, and then only for the parts noted. The drawings shall not be used for "pricing" / "costing" or "tender" unless so indicated in the Issued/Revisions column "Pricing" or "Costing" drawings are not complete and any prices based on such drawings must allow for this.

No.	Date	Description
1	2023-01-31	ISSUED FOR 50% COSTING
2	2024-09-18	ISSUED FOR PERMIT
3	2025-01-29	CLARIFICATIONS TO CITY COMMENTS
1	2025-04-11	ISSUED FOR TENDER

RJC Project Number TOR.130977.0001

Project Name **BLUFFER'S PARK EAST** WASHROOM

1 Brimley Road South, Scarborough, Toronto, ON

Sheet Title

GENERAL NOTES & TYPICAL DETAILS

Scale Project No. 21-029 Drawn By DP Checked By GJ

Print Date 2025-04-14 4:25:43 PM As indicated

Sheet Number **S001**



NON-STRUCTURAL ELEMENTS

- "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE DRAWINGS OF READ JONES CHRISTOFFERSEN LTD. WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS, THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL PREPARE ALL SUBMITTALS UNDER THEIR SEAL AND SIGNATURE AND ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES.
- EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
- ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, FLAG POSTS, CANOPIES, CEILINGS, MILLWORK, ETC.
- LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
- CLADDING, GLAZING, WINDOW MULLIONS, INTERIOR STUD WALLS AND EXTERIOR STUD WALLS. ARCHITECTURAL PRECAST, PRECAST CLADDING.
- SKYLIGHTS.
- MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS, AND THEIR ATTACHMENT DETAILS. WINDOW WASHING EQUIPMENT AND ITS ATTACHMENTS.
- FALL PROTECTION AND FALL ARREST SYSTEMS AND THEIR ATTACHMENTS.
- ESCALATORS, ELEVATORS, AND CONVEYING SYSTEMS. GLASS BLOCK AND ITS ATTACHMENTS.

L/180

L/240

L/360

L/480

L/360

L/400

L/300

L/360

- BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS. DESIGN AND FIELD REVIEW OF SEISMIC RESTRAINT FOR SECONDARY STRUCTURAL ELEMENTS AND OPERATIONAL AND FUNCTIONAL COMPONENTS INCLUDING MECHANICAL AND ELECTRICAL EQUIPMENT
- NON-STRUCTURAL CONCRETE TOPPINGS. DESIGN AND FIELD REVIEW OF NON-LOAD BEARING MASONRY
- DESIGNS PRODUCED BY THE SPECIALTY ENGINEER SHALL CONSIDER STRENGTH, STABILITY, SERVICEABILITY AND INTEGRITY REQUIREMENTS UNDER GRAVITY AND SEISMIC LOADING IN ACCORDANCE WITH THE CURRENT EDITION OF APPLICABLE DESIGN CODES AND ALL OTHER DESIGN REQUIREMENTS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE THE DESIGN OF ALL NON-STRUCTURAL ELEMENTS DESIGNED BY ONE OR MORE SPECIALTY ENGINEERS AND CONNECTING TO ELEMENTS DESIGNED BY OTHER SPECIALTY ENGINEERS TO ENSURE THE STRENGTH, STABILITY, SERVICEABILITY AND INTEGRITY OF THE FINAL CONSTRUCTION.
- SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO READ JONES CHRISTOFFERSEN LTD. INDICATE CLEARLY THE METHOD OF ATTACHMENT AND MAGNITUDE OF ALL FORCES (SPECIFIED AND FACTORED) THAT THE STRUCTURE MUST WITHSTAND. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.
- THE DESIGN WIND LOADS TO BE USED FOR GLAZING, EXTERIOR STUDS AND EXTERIOR CLADDING ARE SHOWN BELOW. LOADS ARE UNFACTORED (SPECIFIED). THE LOADS ARE BASED ON IW = 1.0 FOR ULTIMATE LIMIT STATES. MULTIPLY TABLE VALUES BY IW = 0.75 FOR SERVICABILITY LIMIT STATES.

HEIGHT ABOVE	INWARD	OUTWARD	OUTWARD
STREET	PRESSURE	PRESSURE	PRESSURE AT
(m)	(kPa)	(kPa)	CORNER (kPa)
4.30	1.15	1.05	1.15

CORNER PRESSURES ARE TO BE TAKEN AT A DISTANCE OF 1800 mm IN EACH DIRECTION FROM EACH CORNER OF THE BUILDING.

- FOR STONE OR MASONRY CLADDING, SEISMIC FORCES MAY GOVERN THE DESIGN WIND LOAD TO BE USED FOR INTERIOR STUDS AND
- PARTITIONS IS 0.25 kPa (UNFACTORED) UNLESS NOTED OTHERWISE.

THE MAXIMUM ALLOWABLE DEFLECTIONS FOR GLAZING, STUDS, PARTITIONS AND CLADDING UNDER THE WIND LOADS SHOWN ABOVE SHALL MEET THE ARCHITECTURAL SPECIFICATIONS, THE NATIONAL BUILDING CODE AND THE MANUFACTURER'S SPECIFICATIONS. IN NO CASE SHALL THE DEFLECTIONS EXCEED THE FOLLOWING:

- A. ELEMENTS SUPPORTING BRICK VENEER ------ L/720, MAX. 25 mm
- ELEMENTS SUPPORTING PRECAST PANELS OR STUCCO -------- L/360, MAX. 25 mm
- ELEMENTS SUPPORTING WOOD SIDING METAL SIDING OR EXTERIOR INSULATION ----- L/180, MAX. 25 mm
- ELEMENTS SUPPORTING GLAZING ------ L/180, MAX. 25 mm

STRUCTURAL MOVEMENTS

THIS STRUCTURE WILL UNDERGO NORMAL TYPES OF MOVEMENT AND DEFLECTION, AND THE FOLLOWING ARE ESTIMATES FOR THIS STRUCTURE NON-STRUCTURAL COMPONENTS MUST BE DETAILED TO ACCOMMODATE THIS. DESIGN, DETAILING, AND FIELD REVIEW OF THESE NON-STRUCTURAL ELEMENTS IS BY OTHERS, AND NOT READ JONES CHRISTOFFERSEN LTD.

- DIFFERENTIAL VERTICAL MOVEMENTS BETWEEN ADJACENT COLUMNS AND BETWEEN ADJACENT COLUMNS AND WALLS = APPROXIMATELY 20 mm.
- VERTICAL DEFLECTION OF COLUMNS AND WALLS DUE TO SHRINKAGE AND CREEP = APPROXIMATELY 3.5 mm PER 3600 mm OF HEIGHT.
- VERTICAL DEFLECTIONS OF EDGE BEAMS AND EDGES OF SLABS = 3. APPROXIMATELY 25 mm. DIFFERENTIAL DEFLECTIONS OF EDGE BEAMS AND EDGES OF SLABS = ± 16 mm.
- VERTICAL DEFLECTIONS AT INTERIOR OF FLOORS = APPROXIMATELY 25 mm. DIFFERENTIAL DEFLECTIONS AT INTERIOR OF FLOORS = ± 16 mm.
- HORIZONTAL DRIFT DURING WIND AND EARTHQUAKE BETWEEN FLOORS:
- ± 13 mm DRIFT WITHOUT DAMAGE TO NON-STRUCTURAL
- COMPONENTS. ± 50 mm DRIFT WITHOUT COLLAPSE OF NON-STRUCTURAL COMPONENTS.
- MOVEMENT AT EXPANSION JOINTS:
- ± 50 mm PERPENDICULAR
- ± 50 mm PARALLEL ± 25 mm VERTICAL
- HORIZONTAL SHRINKAGE MOVEMENTS OF POST-TENSIONED SLABS = APPROXIMATELY 10 mm PER 30000 mm OF LENGTH.

ALL STRUCTURES ARE ALSO SUBJECT TO CONSTRUCTION TOLERANCES. THIS SHOULD BE ALLOWED FOR IN DETAILING NON-STRUCTURAL COMPONENTS IN ADDITION TO THE ABOVE MOVEMENTS.



Creative Thinkind

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4	2025-04-11	ISSUED FOR TENDER
3	2025-01-29	CLARIFICATIONS TO CITY COMMENTS
2	2024-09-18	ISSUED FOR PERMIT
1	2023-01-31	ISSUED FOR 50% COSTING
No.	Date	Description

RJC Project Number TOR.130977.0001

Project Name BLUFFER'S PARK EAST WASHROOM

1 Brimley Road South, Scarborough, Toronto, ON

Sheet Title

GENERAL NOTES & TYPICAL DETAILS

Project No. 21-029 Drawn By DP Checked By GJ

Print Date 2025-04-14 4:25:44 PM

Sheet Number **S002**

CC SI	JBN ON(CRETE - SUPPLY, TESTING AND
1.	CON OUT	ICRETE IS SPECIFIED AS PER THE "PERFORMANCE" ALTERNATE AS LINED IN CSA A23.1.
2.	THE CON PRC THE CON CON ALTI	GENERAL CONTRACTOR IS RESPONSIBLE FOR WORKING WITH THE ICRETE SUPPLIER TO ENSURE THAT THE PLASTIC AND HARDENED MIX PERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING, AND OWNERS' SPECIFIED PERFORMANCE REQUIREMENTS. THE GENERAL ITRACTOR SHALL MEET THE DOCUMENTATION AND QUALITY ITROL REQUIREMENTS OUTLINED UNDER THE "PERFORMANCE" ERNATE OF CSA A23.1.
3.	THE REG OF (SUPPLIER SHALL MEET ALL CERTIFICATION AND DOCUMENTATION UIREMENTS AS OUTLINED UNDER THE "PERFORMANCE" ALTERNATE CSA A23.1.
4.	DOC WILI PER RES ACC STA DOC LET	CUMENTATION DEMONSTRATING THAT THE PROPOSED MIX DESIGN L ACHIEVE THE REQUIRED STRENGTH, DURABILITY, AND FORMANCE REQUIREMENTS INDICATED UNDER SUPPLIER PONSIBILITY - ITEM (g) OF TABLE 5, CSA A23.1 (2014) SHALL BE IN CORDANCE WITH CSA A23.2-24C (2019) AND ITS REFERENCED NDARDS OR AN APPROVED EQUIVALENT. THE SUBMITTED CUMENTATION SHALL BE ACCOMPANIED BY A MIX DESIGN REVIEW TER SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
5.	AT T DAT DES AND	THE REQUEST OF THE OWNER, THE SUPPLIER WILL FURNISH TEST A RESULTS (LESS THAN 3 MONTHS OLD) FOR EACH PROPOSED MIX GON DEMONSTRATING THAT THEY MEET THE STRENGTH, DURABILITY, O SHRINKAGE REQUIREMENTS SPECIFIED.
6.	FOR FUR EAC TO 1 STR 14 D	56 DAY [OR 90 DAY] STRENGTH SPECIFICATIONS, THE SUPPLIER WILL NISH THE OWNER WITH ACCELERATED STRENGTH TEST DATA FOR H PROPOSED MIX DESIGN, OR OTHER DOCUMENTATION ACCEPTABLE THE OWNER, SUCH THAT THE ANTICIPATED 56 DAY [OR 90 DAY] ENGTH OF THE MIX AS PLACED ON SITE CAN BE EVALUATED WITHIN DAYS OF PLACEMENT.
7.	THE CON CON	CONCRETE SUPPLIER SHALL BE CERTIFIED BY THE [READY MIXED ICRETE ASSOCIATION OF ONTARIO][ALBERTA READY MIXED ICRETE ASSOCIATION].
CO		DUITS, PIPES, AND SLEEVES
EXC	EPT W	VHEN APPROVED BY RJC, PIPES, CONDUITS, AND SLEEVES EMBEDDED
IN C 6.7.{	ONCR 5 AND	ETE SHALL BE INSTALLED IN ACCORDANCE WITH CSA A23.1 CLAUSE THE FOLLOWING GUIDELINES:
1.	GEN	IERAL:
	A.	SLEEVING DRAWINGS FOR THE FOLLOWING ELEMENTS AND THOSE NOTED ON PLANS AND SECTIONS SHALL BE SUBMITTED TO RJC FOR REVIEW PRIOR TO CONSTRUCTION:
		 i. ALL ELEMENTS ii. SLABS AND SLAB BANDS iii. BEAMS AND GRADE BEAMS iv. WALLS AND SHEAR WALLS
	B.	NOT WITHSTANDING THE SATISFYING OF THESE GUIDELINES, THE CONDUIT, SLEEVES, PIPES, ETC. SHALL NOT IMPAIR THE STRUCTURAL STRENGTH AND SHALL BE MOVED IF SO DIRECTED BY RJC.
	C.	CONTRACTOR SHALL MINIMIZE QUANTITY AND SIZE OF IN-SLAB CONDUITS AND EMBEDDED BOXES TO LEAST AMOUNT POSSIBLE, INCLUDING COMBINING DATA AND TELECOM CABLES IN COMMON CONDUITS WHERE PERMITTED BY CODES AND APPROVED BY THE ELECTRICAL ENGINEER.
	D.	ADD REINFORCING AT POINTS OF CONGESTION AS DIRECTED BY THE STRUCTURAL ENGINEER.
	E.	NO CONDUITS, IN-SLAB DUCTS, SLEEVES, EMBEDDED BOXES, STAYFORM, ETC., SHALL BE PLACED NEAR POST-TENSIONING ANCHORAGES.
	F.	METAL CONDUIT, PIPES, EMBEDDED BOXES, STAYFORM, ETC., SHALL NOT BE PLACED IN PARKING SLABS. NO CONDUIT, PIPES, EMBEDDED BOXES, STAYFORM, ETC. SHALL BE PLACED IN PARKING TOPPING.
	G.	SLEEVES, PIPES OR CONDUITS OF UNCOATED ALUMINUM SHALL NOT
		DE GGED.

CONCRETE - STRENGTH AND EXPOSURE CONSTRUCTION JOINT THROUGH GRADE BEAMS GENERAL (AREAS NOT INCLUDING PARKING) LOCATIONS OF CONSTRUCTION JOINTS TO BE PRE-APPROVED COMPRESSIVE EXPOSURE COMMENTS NOTE: ELEMENT BY THE STRUCTURAL ENGINEER. STRENGTH (MPa) CLASS 28 DAY U.N.O. - INTERRUPT SLAB KEY AT BEAMS 200 (CENTER FOOTINGS 30 MPa Ν ON JOINT) 🕇 🚽 🕇 -2 SHEAR KEYS (START 50 mm (56 DAY) 38 ** FROM EACH FACE OF BEAM) SLAB ON GRADE UNO ON PLANS 25 MPa Ν (INTERIOR) SLAB ON GRADE UNO ON PLANS 35 MPa C-1 ö (EXTERIOR) **RETAINING WALLS /** 30 MPa F-2 qt i i FOUNDATION WALLS OTHER WALLS 25 MPa N/F-2 _ _ _ _ - BEAM REINFORCEMENT INCLUDING WHERE GRADE BEAM COLUMNS / PIERS 30 MPa F-2 CONTAINS SHEAR FACE BARS CONTINUOUS THROUGH REINFORCING, PROVIDE JOINT MECHANICAL 20 MPa Ν ONE SET EXTRA EACH HOUSEKEEPING PADS SIDE OF JOINT NOTES: **BEAM ELEVATION** 1. WHERE EXPOSURE CLASS LISTED AS N/F-1/F-2: **CONCRETE - GENERAL** A. USE N EXPOSURE FOR INTERIOR CONCRETE LOCATED WITHIN AN INSULATED BUILDING ENVELOPE (E.G. DRY AND NOT SUBJECTED TO FREEZING AND THAWING). UNLESS NOTED OTHERWISE, ALL CONCRETE IS TO BE CAST-IN-PLACE. B. USE F-1 EXPOSURE FOR HORIZONTAL AND SLOPED CONCRETE CONCRETE PLACEMENT BY THE WET-MIX SHOTCRETE METHOD IS MEMBERS EXTERIOR TO THE BUILDING INSULATION AND NOT PERMITTED FOR ELEMENTS LISTED IN THE "STRUCTURAL SHOTCRETE" PROTECTED BY A MEMBRANE AND DRIP EDGE (E.G. WET AND NOTE ON DRAWING SUBJECT TO FREEZING AND THAWING). THE USE OF SHOTCRETE IFOR ELEMENTS OTHER THAN THOSE LISTED IN C. USE F-2 EXPOSURE FOR HORIZONTAL AND SLOPED CONCRETE THE "STRUCTURAL SHOTCRETE" NOTE] REQUIRES APPROVAL BY THE MEMBERS EXTERIOR TO THE BUILDING INSULATION AND STRUCTURAL ENGINEER. ANY COSTS ASSOCIATED WITH REDESIGN. PROTECTED BY A MEMBRANE AND DRIP EDGE (E.G. DRY AND CHANGES TO THE CONTRACT DOCUMENTS AND ANY ADDITIONAL TESTING SUBJECT TO FREEZING AND THAWING). AND CONTRACT ADMINISTRATION COSTS TO ACCOMMODATE SHOTCRETE [IN OTHER ELEMENTS] IS TO BE PAID FOR BY THE CONTRACTOR. D. USE F-2 FOR VERTICAL CONCRETE MEMBERS EXTERIOR TO THE BUILDING INSULATION. PORTLAND CEMENT SHALL BE TYPE GU UNLESS NOTED OTHERWISE. 2. CONCRETE STRENGTH AND EXPOSURE CLASS OF STAIRS AND REQUESTS BY THE CONTRACTOR TO USE TYPE GUL CEMENT FOR ANY RAMPS SHALL MEET THE MOST STRINGENT CRITERIA OF THE STRUCTURAL ELEMENTS SHALL BE SUBMITTED TO THE STRUCTURAL ADJOINING SLABS AND BEAMS UNLESS NOTED OTHERWISE. ENGINEER FOR REVIEW AND APPROVAL. THE SUBMISSION SHALL INCLUDE A SIGNED AND SEALED LETTER PREPARED BY A MATERIALS SPECIALTY ENGINEER OR THE SUPPLIER'S ENGINEER TO ATTEST THAT THE CONCRETE PRODUCED WITH TYPE GUL CEMENT ACHIEVES SIMILAR OR HIGHER LEVEL OF PERFORMANCE THAN THE CONCRETE PRODUCED WITH TYPE GU CEMENT NOTED IN THE DRAWINGS AND SPECIFICATIONS, INCLUDING STRENGTH, EXPOSURE CLASS, ETC. AND THAT THE PROPOSED MIX IS SUITABLE FOR THE INTENDED LOCATION AND PLACEMENT METHOD. FOR CONCRETE WITH TYPE GUL CEMENT TO BE PLACED IN CONTACT WITH NATIVE SOIL OR FILL, SUBSURFACE SOIL INVESTIGATION SHALL BE COMPLETED TO DETERMINE SOLUABLE SULPHATE LEVELS. WHERE THE SOLUABLE SULPHATE LEVELS ARE NOT REPORTED IN THE PROJECT SOILS REPORT REFERENCED IN THE STRUCTURALS DRAWING, ADDITIONAL TESTING SHALL BE CONDUCTED UNDER THE DIRECTION OF A MATERIALS SPECIALTY ENGINEER AND A COPY OF THE SEALED TESTING REPORT SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER. ALL TESTING AND OTHER SERVICES BY THE MATERIALS SPECIALTY ENGINEER RELATED TO USE OF TYPE GUL CEMENT SHALL BE PAID FOR BY THE CONTRACTOR. CEMENT TYPE FOR EXPOSURE CLASSES S-1, S-2, AND S-3 SHALL BE AS OUTLINED IN CSA A23.1. CONCRETE SHALL HAVE A UNIT WEIGHT OF 23±1 kN/m³ (145±5 PCF) UNLESS NOTED OTHERWISE. THE CONCRETE PROPERTIES USED IN DESIGN ARE BASED ON A NOMINAL COARSE AGGREGATE SIZE OF 20 mm (3/4") ACCORDING TO TABLE 11 OF CSA A23.1, UNLESS NOTED OTHERWISE. ALL LOCATIONS PROPOSED BY THE CONTRACTOR FOR USE OF CONCRETE MIX DESIGNS WITH A NOMINAL COARSE AGGREGATE SIZE DIFFERENT THAN 20 mm (3/4") SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. ANY INCREASE IN REQUIRED CONCRETE STRENGTH OR INCREASE IN QUANTITY OF REINFORCEMENT DUE TO PROPOSED USE OF CONCRETE MIX WITH DIFFERENT NOMINAL COARSE AGGREGATE SIZE TO BE PAID FOR BY THE CONTRACTOR. RECYCLED AGGREGATE IS NOT TO BE USED WITHOUT WRITTEN APPROVAL 9 BY THE ENGINEER. 10. SLUMP AND AGGREGATE SIZE TO BE DETERMINED BY THE GENERAL CONTRACTOR AND SUPPLIER TO MEET PLACEMENT, AND FINISHING REQUIREMENTS WITHOUT SEGREGATION WHILE MEETING ALL OWNER SPECIFICATIONS. 11. MAXIMUM WATER/CEMENT RATIO AND AIR CONTENT TO MEET THE REQUIREMENTS FOR THE EXPOSURE CLASS AS OUTLINED IN CSA A23.1. REQUIRED AIR CONTENT FOR EXPOSURE CLASSES F-1, F-2, C-1, C-2, AND C-XL SHALL BE BASED ON CONCRETE EXPOSED TO FREEZE-THAW CYCLES UNLESS NOTED OTHERWISE. 12. CHLORIDE ION PENETRABILITY FOR EXPOSURE CLASS C-1 AND C-XL SHALL MEET THE REQUIREMENTS OF CSA A23.1. **CONCRETE - FINISHING AND ADMIXTURES** 1. CURING OF CONCRETE TO MEET THE REQUIREMENTS FOR THE EXPOSURE CLASS AS OUTLINED IN CSA A23.1. CURING COMPOUNDS ARE NOT PERMITTED FOR SUSPENDED PARKING SLABS OR EXPOSURE CLASS C-XL CONCRETE. PARKING SLABS AND REINFORCED SLAB ON GRADES IN PARKING AREAS ARE TO BE CURED FOR MINIMUM 7 DAYS. CORROSION INHIBITORS ARE TO BE USED IN CONCRETE IN AREAS NOTED 2 ON THE STRUCTURAL DRAWINGS, AS WELL AS IN STAIRS AND STAIR LANDINGS WITHIN PARKADES. USE 10 L/m³ OF "DCI S" BY GRACE CONSTRUCTION PRODUCTS OR "MASTERLIFE CI 30" BY BASF CONSTRUCTION CHEMICALS. ALTERNATIVELY, USE C-XL CONCRETE WITH CURING TYPE 3 (EXTENDED) PER CSA A23.1. ALL BOTTOM EDGES OF EXPOSED SLABS AND BEAMS, AS WELL AS EDGES OF WALLS AND COLUMNS. TO BE CHAMFERED 20 mm X 20 mm. ALL TOP EDGES OF EXPOSED SLABS, BEAMS, UPSTANDS AND STAIRS TO BE TOOLED UNLESS NOTED OTHERWISE. SEE ALSO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR OTHER FINISH REQUIREMENTS. NO CALCIUM CHLORIDE IS PERMITTED, IN ANY FORM, IN ANY CONCRETE MIX WITHOUT THE EXPRESS WRITTEN CONSENT OF READ JONES CHRISTOFFERSEN LTD. CURING AND PROTECTION OF CONCRETE FOR HOT, COLD OR DRY 5 WEATHER IS TO BE AS PER CSA A23.1 AS A MINIMUM. SEE ALSO "CONCRETE COLD WEATHER REQUIREMENTS" IN THE STRUCTURAL DRAWINGS.





CONCRETE COVER

- UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS. PROVIDE 2 HOUR FIRE RATING FOR ALL REINFORCED CONCRETE.
- UNLESS OTHERWISE NOTED CONCRETE COVER TO REINFORCEMENT SHALL BE THE LARGEST OF A THROUGH H:

A. FOR FIRE RATINGS:

GENERAL (AREAS NOT INCLUDING PARKING)					
	лт		FIRE RATINGS	6	
		0-2 HOURS	3 HOURS	4 HOURS	
COLUMNS AND FORM (TO TIES)	ED PILES	40 mm	40 mm	55 mm	
WALLS - NON-RETAIN EXPOSED TO FIRE ON AND INDENTIFIED ON	NG AND 2 SIDES PLAN	40 mm MIN	., 50 mm MIN.	TO VERTS.	
WALLS - NON-RETAIN EXPOSED TO FIRE ON	WALLS - NON-RETAINING AND EXPOSED TO FIRE ON 1 SIDE		⁵ 20 mm AND 1 UTER CURTAI	.0d₀ TO ZONE N LAYER	
BEAMS, GIRDERS &	TO STIRRUPS	40 mm			
TRANSFER SLABS	NO STIRRUPS	50 mm			
SLABS AND SLAB BAN STIRRUPS IN SLAB BA	DS, NDS	GREATER OF 25 mm AND 1.0d _b	35 mm	40 mm	
STRUCTURAL SLAB ON GRADE	TOP COVER	GREATER OF 25 mm AND 1.0d _b	N/A	N/A	
	BOT. COVER	30 mm	N/A	N/A	
RETAINING / FOUNDATION WALLS (F-2 EXPOSURE)	INSIDE FACE	GREATER OF 40mm AND 1.5db	N/A	N/A	
	GROUND OR	GREATER OF 40mm	N/A	N/A	

PARKING AREAS

AND 1.5db

		FIRE RATINGS	3		
	0-2 HOURS	3 HOURS	4 HOURS		
COLUMNS AND FORM (TO TIES)	40 mm	40 mm	55 mm		
WALLS - NON-RETAIN EXPOSED TO FIRE ON IDENTIFIED ON PLAN	40 mm MIN	., 50 mm MIN.	TO VERTS.		
WALLS - NON-RETAINING AND EXPOSED TO FIRE ON 1 SIDE		40 mm T C	O ZONE TIES URTAIN LAYE	/ OUTER R	
BEAMS, GIRDERS &	TO STIRRUPS	40 mm			
TRANSFER SLABS WITH MEMBRANE	NO STIRRUPS	50 mm			
SLABS AND SLAB	TOP COVER	GREATER OF 40 mm OR 1.5d _b			
BANDS, STIRRUPS IN SLAB BANDS WITH MEMBRANE	BOT. COVER	GREATER OF 30 mm AND 1.5d₀	GREATER OF 35 mm AND 1.5d _b	GREATER OF 40 mm AND 1.5d⊳	
STRUCTURAL SLAB O TOP AND BOTTOM CO	55 mm	N/A	N/A		
RETAINING / FOUNDA COVER BOTH FACES (GREATER OF 40mm AND 1.5db	N/A	N/A		

B. UNLESS NOTED OTHERWISE IN NOTES C ------ 1.0db THROUGH H MINIMUM CONCRETE COVER

C. CONCRETE CAST AGAINST EARTH OR GROUND ----- 75 mm

- CONCRETE WITH NO MEMBRANE (NON-PARKING) --- 60 mm OR 2.0db AND EXPOSED TO CHLORIDES - EXPOSURE CLASS (WHICHEVER C-XL, C1, AND C3. IS GREATER)
- FORMED FINISHED CONCRETE EXPOSED TO ------ 40 mm OR 1.5db WEATHER - EXPOSURE CLASS F1, F2, S1, S2, OR EARTH
- CONCRETE IN PARKING AREAS WITH MEMBRANE, -- 40 mm OR 1.5db TOP AND VERTICAL BARS
- G. CONCRETE IN PARKING AREAS WITH MEMBRANE -- 45 mm OR 1.5db AND SEVERE EXPOSURE (RAMPS, TRUCK (WHICHEVER ACCESS, ETC.) AS NOTED ON PLAN, TOP BARS IS GREATER)
- H. CONCRETE IN PARKING AREAS, ------BOTTOM BARS

NOTES:

SEE ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS FOR AREAS WHICH MAY REQUIRE 3 OR 4 HOUR RATINGS.

SEE STRUCTURAL DRAWINGS FOR AREAS CLASSIFIED AS (D) or (E) ABOVE FOR WEATHER EXPOSURE.

(WHICHEVER

IS GREATER)

(WHICHEVER

IS GREATER)

-- 30 mm OR 1.5db

(WHICHEVER

IS GREATER)

CONCRETE REINFORCEMENT

1. REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS:

Α.	10M AND LARGER (U.N.O.)	-	CSA G30.18 GRADE 400R
В.	WELDED WIRE REINFORCEMENT	-	ASTM A1064M
C.	ALL REINFORCING THAT WILL BE	-	CSA G30.18 GRADE 400W
	WELDED OR IS PART OF THE		
	SEISMIC RESISTING ELEMENTS:		
	REINFORCING FOR SHEAR WALLS	5,	
	HEADERS AND ZONES (INCLUDING	S ZONI	E
	TIES AND HEADER TIES/STIRRUPS	3) AND	•
	MOMENT FRAME COLUMNS AND B	ÉAMS	
	(INCLUDING COLUMN TIES AND BE	EAM	
	STIRRUPS).		
D.	REINFORCING DESIGNATED AS	-	CSA G30.18 GRADE 500W
	500 GRADE OR 500 MPa		
E.	PRESTRESSING STRANDS	-	CSA G279
F.	EPOXY REINFORCING	-	ASTM A775M AND ASTM D3963M
G.	GALVANIZED REBAR	-	ASTM A767M

(NOTE: CSA G30.18 W GRADES MAY BE SUBSTITUTED FOR CSA G30.18 R GRADES)

- SEE PLAN AND DETAILS FOR ELEMENTS DESIGNATED WITH GRADE 500W REBAR. MARK ALL GRADE 500W REBAR WITH ORANGE PAINT AT BOTH ENDS. REBAR THAT IS NOT CLEARLY IDENTIFIABLE WILL BE REJECTED.
- REINFORCING BARS WITH 5 x Ab MECHANICAL ANCHOR HEADS TO HAVE A CLEAR SPACING BETWEEN PARALLEL BARS OF NOT LESS THAN 4db WITHIN THE SAME LAYER AND BETWEEN LAYERS.
- DO NOT SUBSTITUTE DEFORMED WIRE FOR REINFORCING BARS WITHOUT 4 PRIOR APPROVAL OF THE RJC.
- SUPPORT REINFORCING WITH CHAIRS, ACCESSORIES, OR REINFORCING 5 BARS AS REQUIRED. BARS USED AS SUPPORT BARS SHALL BE CONSIDERED AS ACCESSORIES.
- PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN CONCRETE COVER AS SPECIFIED. ALL SUPPORTS AND BARS MUST BE TIED TOGETHER TO MAINTAIN REINFORCING STEEL SECURELY IN PLACE DURING CONCRETE PLACEMENT.
- IN SUSPENDED PARKING SLABS:
- A. BAR SUPPORT CHAIRS SHALL BE PLASTIC, PLASTIC COATED, OR PRECAST CONCRETE BLOCKS EQUAL IN QUALITY TO THE CONCRETE SPECIFIED FOR THE STRUCTURE.
- B. PLASTIC TIES OR PLASTIC COATED WIRES SHALL BE USED FOR TYING GALVANIZED OR EPOXY COATED REINFORCEMENT.
- C. UNCOATED METAL TIES SHALL NOT EXTEND MORE THAN 5 mm INTO THE CONCRETE COVER.
- 8. SEE STRUCTURAL DRAWINGS FOR EXTENT OF EPOXY COATED REBAR.
- 9. TESTING OF REINFORCING STEEL SHALL CONFORM TO THE SPECIFICATIONS.

DESIGNATION OF REINFORCING BARS

BARS SHOWN THUS ----- IN BOTTOM OF BEAMS OR SLABS OR IN FAR FACE OF WALL BARS SHOWN THUS ----------- IN TOP OF BEAMS OR SLABS OR IN NEAR FACE OF WALL STRAIGHT BARS: 6-10M4200 MEANS 6-10M BARS 4200 mm LONG. _____ 15M3800 + 15M3200 ALT. @ 200 MEANS 1-15M 3800 mm LONG BAR THEN 1-15M 3200 mm _____ LONG BAR SPACED 200 mm O/C AWAY. 20M4000 @ 300 STAG. 600 MEANS 600 mm OFFSET _____ FOR EACH 20M4000 BAR SPACED AT 300 mm O/C. IF STAGGER NOT SPECIFIED SEE GENERAL NOTES 600 AND TYPICAL DETAILS FOR DIMENSION TYPICAL SLAB REINFORCING LAYOUT NOTE FOR DIMENSION. 4. BENT BARS: 6-C15M4000 @ 300 MEANS 6-15M BARS 4000 mm LONG (LENGTH INCLUDES HOOK LENGTH) HOOKED ONE END WITH 90° STANDARD HOOK AND SPACED AT 300 mm O/C. 8-A15M3000 @ 300 MEANS 8-15M BARS 3000 mm LONG (LENGTH INCLUDES HOOK LENGTH) HOOKED ONE END WITH 180° STANDARD HOOK AND SPACED AT 300 mm O/C. 15M @ 300 H.2.E. MEANS 15M BARS HOOKED BOTH ENDS WITH 90° STANDARD HOOK AND SPACED AT 300 mm O/C. REINFORCING BAR HARDWARE: REINFORCING BAR TERMINATOR (WITH 5 x Ab GROSS HEAD) OR HEADED BAR (WITH 10 x Ab GROSS HEAD). PROVIDE BAR TERMINATOR U.N.O. REINFORCING BAR MECHANICAL SPLICE (TYPE 2 U.N.O.) ____ REINFORCING BAR MECHANICAL SPLICE AT CONSTRUCTION JOINT OR FOR FUTURE EXTENSION. (TYPE 2 U.N.O.) _____C REBAR HALF COUPLER WELDED TO STRUCTURAL STEEL SECTION OR EMBED PLATE (TYPE 2 U.N.O.) EPOXY COATED STRAIGHT AND HOOKED BARS: 6. E15M @ 400 B.E.W. MEANS 15M BARS EPOXY COATED -----SPACED AT 400 mm O/C AT BOTTOM OF SLAB IN BOTH DIRECTIONS. 7-EC15M4000 @ 250 MEANS 7-15M BARS EPOXY COATED 4000 mm LONG (LENGTH INCLUDES HOOK LENGTH) HOOKED ONE END WITH 90° STANDARD HOOK AND SPACED AT 250 mm O/C.

CONDUITS, PIPES, AND SLEEVES **EMBEDDED IN CONCRETE - WALLS**

REFER TO CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE -GENERAL FOR ADDITIONAL REQUIREMENTS

- 1. WALLS AND SHEAR WALLS:
 - Α. BOXES, CONDUIT, SLEEVES OR EMBEDDED PIPES ARE NOT ALLOWED WITHOUT THE WRITTEN APPROVAL OF RJC.
 - CONTRACTOR MUST SUBMIT SHOP DRAWINGS SHOWING PROPOSED DETAILS OF ALL EMBEDMENTS (CONDUIT, BOXES, ETC.) AND OPENINGS IN SHEAR WALLS AND NON-SHEAR WALLS FOR REVIEW A MINIMUM OF 21 DAYS BEFORE START OF WALL CONSTRUCTION AT ANY LEVEL. SHOP DRAWINGS TO INCLUDE PROPOSED CONDUIT O.D., QUANTITY, LOCATION AND REQUIRED BOX-OUTS, STRAIN RELIEF LOOPS, ETC. FOR PRICING AND TENDER PURPOSES, THE CONTRACTOR SHALL NOT ASSUME THAT VERTICAL WALL RUNS WILL BE PERMITTED OR THAT ANY STRUCTURAL PROVISIONS TO ACCOMMODATE VERTICAL WALL RUNS HAVE BEEN MADE.
 - GUIDELINES FOR CONDUIT, SLEEVES, OR EMBEDDED PIPES IN NON-C. SHEAR WALLS:
 - MAXIMUM DIAMETER = 1/4 WALL THICKNESS. NO HORIZONTAL RUNS PERMITTED UNLESS NOTED
 - OTHERWISE ON WALL ELEVATIONS OR DETAILS.
 - VERTICAL RUNS TO HAVE MINIMUM 50 mm CONCRETE COVER. VERTICAL RUNS SHALL HAVE MINIMUM SPACING IN PLANE OF WALL OR PERPENDICULAR TO PLANE OF WALL OF



Creative Thinking **Practical Results** Read Jones Christoffersen Ltd. Engineers rjc.ca 100 University Avenue, North Tower, Suite 400 Toronto, ON M5J 1V6 Canada tel 416-977-5335 Drawing Notes 1. All drawings, plans, models, designs, specifications and other documents prepared by Read Jones Christoffersen Ltd. ("RJC") and used in connection with this project are instruments of service for the work shown in them (the "Work") and as such are and remain the property of RJC whether the Work is executed or not, and RJC reserves the copyright in them and in the Work executed from them, and they shall not be used for any other work or project. 2. These drawings are "design drawings" only. They may not be suitable for use as shop drawings. Use of these drawings as base drawings for "shop drawings" is not permitted unless written permission containing certain conditions and limitations is obtained from RJC. The work "as constructed" may vary from what is shown on these drawings. 3. Use of these drawings is limited to that identified in the Issued/Revision column. Do not construct from these drawings unless marked "Issued for Construction" by RJC in the Issued/Revision column, and then only for the parts noted. The drawings shall not be used for "pricing" / "costing" or "tender" unless so indicated in the Issued/Revisions column. "Pricing" or "Costing" drawings are not complete and any prices based on such drawings must allow for this. 3 2025-04-11 ISSUED FOR TENDER 2024-09-18 ISSUED FOR PERMIT 2023-01-31 ISSUED FOR 50% COSTING No. Date Description Issue Record **RJC Project Number:** TOR.130977.0001 Project Name **BLUFFER'S PARK EAST** WASHROOM 1 Brimley Road South, Scarborough, Toronto, ON Sheet Title **GENERAL NOTES & TYPICAL DETAILS** Print Date 2025-04-14 4:25:45 PM Scale As indicated Project No. 21-029 Drawn By DP Checked By GJ Sheet Number Revision **S004**



WALLS

1.

THESE NOTES APPLY SPECIFICALLY TO CONCRETE WALLS NOT CLASSIFIED AS SHEAR WALLS. SEE ALSO CONCRETE SHEAR WALL NOTES.

UNLESS NOTE	D OTHERWISE,	WALLS SHALL BE REIN	FORCED AS FOLLOWS:
WALL THICKNESS	FIRE EXPOSURE	VERTICAL REINFORCING	HORIZONTAL REINFORCING
150 mm	1 SIDE	10M @ 450 CENTERED	10M @ 330 CENTERED
	2 SIDES	10M @ 450 E.F. STAG.	10M @ 450 E.F. STAG.
200 mm	1 SIDE	10M @ 330 CENTERED	10M @ 250 OR 15M @ 500 CENTERED
	2 SIDES	10M @ 500 E.F. STAG.	10M @ 500 E.F. STAG.
250 mm	1 OR 2 SIDES	10M @ 500 E.F. STAG.	10M @ 400 E.F STAG.
300 mm	1 OR 2 SIDES	10M @ 440 E.F.	10M @ 330 E.F.
350 mm	1 OR 2 SIDES	10M @ 380 E.F.	10M @ 280 E.F.
400 mm	1 OR 2 SIDES	10M @ 330 E.F.	10M @ 250 E.F OR 15M @ 500 E.F. STAG.

FOR OTHER THICKNESSES, REINFORCEMENT TO BE PROPORTIONAL TO ABOVE

15M @ 500 MAY BE SUBSTITUTED FOR 10M @ 330 ONLY WITH THE APPROVAL OF RJC. FOR WALLS WITH A SINGLE LAYER OF STEEL, THE WALL REINFORCING SHALL BE PLACED IN THE CENTER OF THE WALL U.N.O.

REFER TO THE "CONCRETE REINFORCEMENT" NOTE AND THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE EXPOSURE REQUIREMENTS. ALL WALLS DESIGNED FOR FIRE EXPOSURE ONE SIDE U.N.O. ON STRUCTURAL DRAWINGS.

- PLACE VERTICAL REINFORCEMENT IN OUTER LAYERS OF THE CURTAINS 2. AND HORIZONTAL REINFORCEMENT IN INNER LAYERS (BEHIND VERTICALS), UNLESS NOTED OTHERWISE.
- 2. PLACE HORIZONTAL REINFORCEMENT IN OUTER LAYERS OF THE CURTAINS AND VERTICAL REINFORCEMENT IN INNER LAYERS (BEHIND HORIZONTALS), UNLESS NOTED OTHERWISE.
- ALL WALL REINFORCING SHALL BE CONTINUOUS, WITH HOOKS OR 3. CORNER BARS USED AT ALL WALL JUNCTIONS. EXTEND HOOKS TO FAR FACE OF WALL. CORNER BARS TO BE LOCATED ON OUTSIDE FACE OR CENTER OF WALL.
- HORIZONTAL AND VERTICAL SPLICES SHALL BE CASE 1 TENSION SPLICES. U.N.O. HORIZONTAL BARS NEED NOT BE CONSIDERED TOP BARS.
- 5. ENDS OF ALL WALLS AND ALL WALL INTERSECTIONS SHALL HAVE 2-15M VERTICAL MINIMUM UNLESS NOTED OTHERWISE ON DRAWINGS.
- ADD 2-15M PARALLEL TO ALL EDGES AND EXTENDING 625 mm BEYOND 6. CORNERS AT OPENINGS IN WALLS.
- UNLESS NOTED OTHERWISE, PROVIDE DOWELS AT BOTTOM OF WALLS 7. (E.G. AT FOOTINGS OR WHEREVER WALL BEGINS) AS SHOWN BELOW. DOWELS TO MATCH VERTICAL REINFORCEMENT.

CASE 1 TENSION SPLICE	•	TOP OF FOOTING OR SLAB
TENSION	• (HOOK BOTTOM OF DOWEL IF NECESSARY

- UNLESS NOTED OTHERWISE, ALL RETAINING WALLS BELOW GRADE AND ALL EXTERIOR WALLS EXPOSED TO THE WEATHER ABOVE GRADE SHALL HAVE CONTROL JOINTS. SEE CONTROL JOINT DETAIL. CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT WHERE REQUIRED. THE LOCATION OF CONTROL JOINTS IN EXPOSED CONCRETE WALLS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
- UNLESS NOTED OTHERWISE. PLACE TOP OF WALLS 0 mm TO 12 mm BELOW SOFFIT OF SUPPORTED CONCRETE STRUCTURE. IF TOP OF WALL PLACED ABOVE SOFFIT, 0 CAREFULLY CHIP DOWN MINIMUM 3 DAYS AFTER ELEMENT POURED AND AS REQUIRED BY RJC.

WALLS - CORNER DETAILS

DETAILS OF HORIZONTAL REINFORCEMENT AT CORNERS (SEE ALSO ZONE **REINFORCING DETAILS):**



CONT'D FROM RIGHT... **EMBEDMENT / DEVELOPMENT LENGTHS AND SPLICE** LENGTHS

CASE 2 TENSION EMBEDMENT AND SPLICE CONDITIONS

- TENSION EMBEDMENT AND SPLICE LENGTHS CONFORMING TO CSA A23.3 TABLE 12.1 (0.6 $k_1k_2k_3k_4f_vd_b / \sqrt{f_c}$) ARE TO BE AS PER THE FOLLOWING TABLE FOR MEMBERS NOT SATISFYING CASE 1 CONDITIONS AS SET OUT ABOVE. FOR EXAMPLE:
- A. ONE WAY SLAB TOP BARS (SEE TOP BAR NOTE).
- B. SLAB BAND BOTTOM BARS.
- C. BARS (EXCLUDING THE SPLICE) SPACED CLOSER TOGETHER THAN 2 BAR DIAMETERS IN SAME LAYER AND BETWEEN LAYERS.

E. SEE ALS	SO NOTES ON TOP BARS AND EPOXY COATED REINFORCEMENT.							
CONCRETE	EUNCTION	REBA	AR DESIGNATION (GRADE 400 LENGTHS)					
STRENGTH	FUNCTION	10M	15M	20M	25M	30M	35M	
20 MPa	EMBEDMENT	430	645	860	1345	1610	1880	
	(SPLICE)	(560)	(840)	(1120)	(1745)	(2095)	(2445)	
25 MPa	EMBEDMENT	385	580	770	1200	1440	1680	
	(SPLICE)	(500)	(750)	(1000)	(1560)	(1875)	(2185)	
30 MPa	EMBEDMENT	355	530	705	1100	1315	1535	
	(SPLICE)	(460)	(685)	(915)	(1425)	(1710)	(1995)	
35 MPa	EMBEDMENT	325	490	650	1015	1220	1420	
	(SPLICE)	(425)	(635)	(845)	(1320)	(1585)	(1850)	
40 MPa	EMBEDMENT	305	460	610	950	1140	1330	
	(SPLICE)	(395)	(595)	(790)	(1235)	(1480)	(1730)	
45 MPa	EMBEDMENT	300	430	575	895	1075	1255	
	(SPLICE)	(390)	(560)	(745)	(1165)	(1400)	(1630)	
50 MPa	EMBEDMENT	300	410	545	850	1020	1190	
	(SPLICE)	(390)	(530)	(710)	(1105)	(1325)	(1545)	
55 MPa	EMBEDMENT	300	390	520	810	975	1135	
	(SPLICE)	(390)	(505)	(675)	(1055)	(1265)	(1475)	
60 MPa	EMBEDMENT	300	375	500	775	930	1085	
	(SPLICE)	(390)	(485)	(645)	(1010)	(1210)	(1410)	
65 MPa &	EMBEDMENT	300	360	480	750	900	1050	
GREATER	(SPLICE)	(390)	(470)	(625)	(975)	(1170)	(1365)	
NOTES:	1. "TOP BAR" V "TOP BAR" A	ALUES A	RE 1.3 TI	MES THE			B. CAST	

- WITH 300 mm OR MORE OF CONCRETE BELOW THE BAR. 2. INCREASE THESE TABLE LENGTHS BY 1.5 TIMES FOR EPOXY
- COATED REINFORCEMENT. INCREASE THESE TABLE LENGTHS BY 1.7 TIMES FOR EPOXY COATED TOP REINFORCEMENT.
- 3. TABLE SHOWS LENGTHS FOR GRADE 400 REINFORCEMENT. MULTIPLY VALUES BY 1.25 FOR GRADE 500 REINFORCEMENT
- 4. INCREASE THESE TABLE LENGTHS BY 1.15 TIMES WHEN SPACING BETWEEN LAYERS OF REBAR IS 1.0db.

5. WHERE A TENSION SPLICE IS SPECIFIED BETWEEN TWO BARS OF DIFFERENT DIAMETERS, THE MINIMUM SPLICE LENGTH SHALL BE THE GREATER OF THE SPLICE LENGTH FOR THE SMALLER DIAMETER BAR AND THE EMBEDMENT LENGTH OF THE LARGER DIAMETER BAR.

DEVELOPMENT

DEVELOPMENT OF STANDARD HOOKS IN TENSION

BASED ON CSA A23.3.

SLAB

____WALL

					1 LEI	NGTH [
CONCRETE	RE	BAR DESI	GNATION	(GRADE 4	00 LENGTI	HS)
STRENGTH	10M	15M	20M	25M	30M	35M
20 MPa	225	340	450	560	675	785
25 MPa	200	300	400	500	600	700
30 MPa	185	275	370	460	550	640
35 MPa	170	255	340	425	510	595
40 MPa	160	240	320	400	475	555
45 MPa	150	225	300	375	450	525
50 MPa	150	215	285	355	425	495
55 MPa	150	205	270	340	405	475
60 MPa	150	195	260	325	390	455
65 MPa & GREATER	150	190	250	315	375	440

NOTES:

- TABLE SHOWS DEVELOPMENT LENGTHS FOR GRADE 400 REINFORCEMENT. INCREASE TABLE LENGTHS BY 1.25 FOR GRADE 500 REINFORCEMENT.
- INCREASE TABLE LENGTHS BY 1.2 FOR EPOXY COATED REINFORCEMENT.

EMBEDMENT / DEVELOPMENT LENGTHS AND SPLICE LENGTHS

4	
1.	BASED ON CSA A23.3

- 2. WHERE EMBEDMENT OR SPLICES ARE DIMENSIONED ON THE DRAWINGS. SUCH DIMENSION SHALL APPLY.
- WHERE THE DRAWINGS INDICATE A COMPRESSION EMBEDMENT, IT IS A COMPRESSION EMBEDMENT LENGTH AND IT SHALL BE AS NOTED BELOW.
- WHERE THE DRAWINGS INDICATE A TENSION EMBEDMENT, IT IS A TENSION EMBEDMENT LENGTH AND SHALL BE AS NOTED BELOW.
- WHERE NO EMBEDMENT OR EMBEDMENT TYPE IS CALLED FOR ON THESE DRAWINGS, IT SHALL BE A TENSION EMBEDMENT, EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION EMBEDMENT.
- WHERE NO SPLICE OR SPLICE TYPE IS CALLED FOR ON THESE DRAWINGS, IT SHALL BE A TENSION SPLICE, EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION SPLICE.
- IN TABLES BELOW, EMBEDMENT LENGTHS ARE SHOWN WITHOUT BRACKETS, AND SPLICE LENGTHS ARE SHOWN IN BRACKETS.
- ALL TENSION SPLICE LENGTHS ARE CLASS "B" (1.3 {d).
- WHERE MORE THAN ONE FACTOR APPLIES FOR INCREASING THE LENGTHS IN THESE TABLES, MULTIPLY ALL FACTORS TOGETHER.

COMPRESSION EMBEDMENT AND SPLICE LENGTHS

- 10. COMPRESSION EMBEDMENT REFERS TO THE LENGTH REQUIRED TO PROVIDE THE "COMPRESSION DEVELOPMENT LENGTH" AS DEFINED IN CSA A23.3 CLAUSE 12.3.2.
- 11. SPLICE LENGTH REFERS TO THE MINIMUM LAP LENGTH REQUIRED FOR A COMPRESSION SPLICE AS DEFINED IN CSA A23.3 CLAUSE 12.16.1.

CONCRETE	EUNCTION	REBA	AR DESIG	NATION	(GRADE	400 LENG	STHS)
STRENGTH	FUNCTION	10M	15M	20M	25M	30M	35M
20 MPa	EMBEDMENT	215	325	430	540	645	755
	(SPLICE)	(300)	(440)	(585)	(730)	(880)	(1025
25 MPa	EMBEDMENT	200	290	385	480	580	675
	(SPLICE)	(300)	(440)	(585)	(730)	(880)	(1025
30 MPa &	EMBEDMENT	200	265	355	440	530	620
GREATER	(SPLICE)	(300)	(440)	(585)	(730)	(880)	(1025)
NOTES:	1. TABLE SHOW MULTIPLY V	VS LENG ALUES B`	THS FOR Y 1.46 FO	r grade R grade	400 REIN E 500 REI	FORCEM NFORCE	ENT. MENT.

2. WHERE A COMPRESSION SPLICE IS SPECIFIED BETWEEN TWO BARS OF DIFFERENT DIAMETERS. THE MINIMUM SPLICE LENGTH SHALL BE THE GREATER OF THE SPLICE LENGTH FOR THE SMALLER DIAMETER BAR AND THE EMBEDMENT LENGTH OF THE LARGER DIAMETER BAR.

TENSION EMBEDMENT AND SPLICE LENGTHS

TENSION EMBEDMENT REFERS TO THE LENGTH REQUIRED TO PROVIDE A "TENSION DEVELOPMENT LENGTH" AS DEFINED IN CSA A23.3 CLAUSE 12.2.

SPLICE LENGTH REFERS TO THE MINIMUM LAP LENGTH REQUIRED FOR A CLASS 'B' TENSION SPLICE (1.3^ld) AS PER CSA A23.3 CLAUSE 12.15.

CASE 1 TENSION EMBEDMENT AND SPLICE CONDITIONS

FENSION EMBEDMENT AND SPLICE LENGTHS CONFORMING TO CSA A23.3 TABLE 12.1 (0.45 $k_1k_2k_3k_4f_yd_b \ \sqrt{f'c}$) ARE TO BE AS PER THE FOLLOWING TABLE FOR:

- A. COLUMN VERTS REQUIRING TENSION SPLICES.
- B. BEAM AND GIRDER TOP AND BOTTOM BARS. C. SLAB BAND TOP BARS.
- D. TWO WAY SLAB TOP AND BOTTOM BARS. E. ONE WAY SLAB BOTTOM BARS.
- F. FOUNDATION RAFT SLABS, TOP AND BOTTOM BARS.
- G. WALL HORIZONTAL AND VERTICAL DISTRIBUTED REINFORCING. H. SEE ALSO NOTES ON TOP BARS AND EPOXY COATED REINFORCEMENT.
- I. MEMBERS WHICH DO NOT SATISFY THE ABOVE CONDITIONS SHALL HAVE TENSION EMBEDMENTS AND SPLICES AS PER CASE 2 TABLE BELOW. PERAR DESIGNATION (GRADE 400 LENGTHS)

CONCRETE	FUNCTION	REDAR DESIGNATION (GRADE 400 LENGTHS)						
STRENGTH		10M	15M	20M	25M	30M	35M	
20 MPa	EMBEDMENT	325	485	645	1010	1210	1410	
	(SPLICE)	(420)	(630)	(840)	(1310)	(1570)	(1835)	
25 MPa	EMBEDMENT	300	435	580	900	1080	1260	
	(SPLICE)	(390)	(565)	(750)	(1170)	(1405)	(1640)	
30 MPa	EMBEDMENT	300	395	530	825	990	1155	
	(SPLICE)	(390)	(515)	(685)	(1070)	(1285)	(1500)	
35 MPa	EMBEDMENT	300	370	490	765	915	1065	
	(SPLICE)	(390)	(475)	(635)	(990)	(1190)	(1385)	
40 MPa	EMBEDMENT	300	345	460	715	855	1000	
	(SPLICE)	(390)	(445)	(595)	(925)	(1110)	(1295)	
45 MPa	EMBEDMENT	300	325	430	675	805	940	
	(SPLICE)	(390)	(420)	(560)	(875)	(1050)	(1225)	
50 MPa	EMBEDMENT	300	310	410	640	765	895	
	(SPLICE)	(390)	(400)	(530)	(830)	(995)	(1160)	
55 MPa	EMBEDMENT	300	300	390	610	730	850	
	(SPLICE)	(390)	(390)	(505)	(790)	(950)	(1105)	
60 MPa	EMBEDMENT	300	300	375	585	700	815	
	(SPLICE)	(390)	(390)	(485)	(760)	(910)	(1060)	
65 MPa &	EMBEDMENT	300	300	360	565	675	790	
GREATER	(SPLICE)	(390)	(390)	(470)	(735)	(880)	(1025)	
<u>NOTES:</u>	 "TOP BAR" V "TOP BAR" A WITH 300 mr "TOP BAR" F REINFORCE INCREASE T COATED RE BY 1.7 TIMES 	ALUES A PPLIES T n OR MO ACTOR E MENT IN HESE TA INFORCE S FOR EP	RE 1.3 TI TO HORIZ RE OF CO DOES NO WALLS T BLE LEN MENT. IN POXY CO	MES THE CONTAL F DNCRETE T APPLY HAT ARE GTHS BY ICREASE ATED TOI	E ABOVE REINFORG BELOW TO HORI NOT VIE 1.5 TIME THESE T P REINFO	LENGTHS CEMENT (THE BAF ZONTAL) BRATED. S FOR EF FABLE LE DRCEMEN	3. CAST ₹. WALL POXY NGTHS IT.	

4. TABLE SHOWS LENGTHS FOR GRADE 400 REINFORCEMENT. MULTIPLY VALUES BY 1.25 FOR GRADE 500 REINFORCEMENT.

5. WHERE A TENSION SPLICE IS SPECIFIED BETWEEN TWO BARS OF DIFFERENT DIAMETERS, THE MINIMUM SPLICE LENGTH SHALL BE THE GREATER OF THE SPLICE LENGTH FOR THE SMALLER DIAMETER BAR AND THE EMBEDMENT LENGTH OF THE LARGER DIAMETER BAR.

Creative Thinking **Practical Results**

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No.	Date	Description
1	2023-01-31	ISSUED FOR 50% COSTING
	2024-09-18	ISSUED FOR PERMIT
3	2025-04-11	ISSUED FOR TENDER

RJC Project Number TOR.130977.0001



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Scarborough, Toronto, ON

Sheet Title

GENERAL NOTES & TYPICAL DETAILS

Scale Project No. 21-029 Drawn By DP Checked By GJ

Print Date 2025-04-14 4:25:46 PM As indicate

Sheet Number **S005**


COLUMN VERTICAL REINFORCEMENT AND TIE ARRANGEMENT



SLAB ON GRADE REINFORCEMENT AND CONTROL JOINTS

- SLAB ON GRADE SHALL BE PLACED ON SOIL CAPABLE OF SUSTAINING 25.0 kPa MIN. WITHOUT SETTLEMENT RELATIVE TO THE BUILDINGS FOOTINGS. IN AREAS WHERE SOG. USED TO SUPPORT TEMPORARY SHORING LOADS, LARGER SUBGRADE CAPACITIES MAY BE REQUIRED PER LOADS SUPPLIED BY TEMPORARY WORKS ENGINEER.
- REINFORCE SLAB ON GRADE PER TABLE BELOW LOCATED 40mm FROM 2. TOP OF SLAB WITH PROPER CHAIRS.

SOG. THICKNESS	MIN. REINFORCING U.N.O. ON PLAN
≤ 125mm	152x152 MW 18.7 x MW 18.7
126mm TO 175mm	10M @400 E.W.
>176mm	15M @400 E.W.

- UNLESS MORE RIGOROUS REQUIREMENTS ARE INDICATED ELSEWHERE ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS, SPACE CONTROL JOINTS AT 4500 mm O/C MAXIMUM.
- SAWCUT JOINTS 4mm WIDE AND 38 mm DEEP AS SOON AS PRACTICAL. BUT NO LATER THAN 12 HOURS AFTER PLACEMENT OF SLAB. USE EQUIPMENT THAT DOES NOT "RAVEL" THE EDGES OF THE CUT, SEAL AS REQUIRED.
- UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, RUN ANY SLAB ON GRADE REINFORCEMENT THROUGH THE JOINTS.
- UNLESS NOTED OTHERWISE, SAWCUT DIAMOND PATTERN AROUND COLUMNS, 150 mm CLEAR OF COLUMNS,
- UNLESS NOTED OTHERWISE, FORM A DIAMOND SHAPE AROUND COLUMNS, 150 mm CLEAR, AND DO NOT RUN REINFORCEMENT THROUGH PLACE INFILL AROUND COLUMN 28 DAYS AFTER SLAB ON GRADE PLACED.



REINFORCEMENT AS SPECIFIED IN NOTE #2 ABOVE TO CROSS AND LAP MIN 400mm AT COLD JOINTS. FOR UNREINFORCED SLAB ON GRADE PROVIDE 38x38mm DEEP CONTINUOUS SHEAR KEY IN SOG. FACE.

CONT'D FROM RIGHT.... **COLUMN SPLICE AND DOWEL DETAILS**

NOTES:

- ADD ADDITIONAL SETS OF TIES AT 1/2 TIE SPACING MAXIMUM IF THIS DISTANCE IS MORE THAN 1/2 TIE SPACE.
- CONTINUE COLUMN TIES THROUGH BEAM / COLUMN, SLAB BAND / COLUMN, AND SLAB / COLUMN JOINTS EXCEPT WHERE BEAMS, SLAB BANDS, OR SLABS OF EQUAL DEPTH FRAME INTO ALL FOUR SIDES OF COLUMN (SLAB OVERHANG AT LEAST 4 TIMES SLAB THICKNESS). COLUMN TIES TO CONTINUE THROUGH JOINT IF COLUMN WIDTH ON ANY SIDE EXCEEDS BEAM WIDTH ON SAME SIDE.
- CONTINUE COLUMN TIES THROUGH ALL REGIONS WHERE MECHANICAL SPLICES ARE PROVIDED ON VERTICAL BARS
- WHERE COLUMN VERTICALS DO NOT EXTEND INTO A COLUMN ABOVE, EXTEND VERTICAL REINFORCING 600 mm MINIMUM INTO UNDERSIDE OF BEAMS OR TO WITHIN 25 mm OF TOP OF SLABS UNLESS CLEAR COVER REQUIREMENTS ARE GREATER.
- WHERE COLUMN VERTICALS WITH NO HOOK OR WITH STANDARD HOOK DO NOT HAVE FULL TENSION EMBEDMENT INTO MEMBER ABOVE. PROVIDE HOOKED DOWELS SAME SIZE AND NUMBER AS VERTICAL COLUMN REINFORCEMENT UNLESS NOTED OTHERWISE IN COLUMN SCHEDULE.
- WHERE BARS WITH NO HOOK PERMITTED, EXTEND BAR TO TOP OF SLAB LESS TOP COVER REQUIREMENT.
- ALL HOOKS AT EACH COLUMN FACE ORIENTED TO CROSS OVER FAR COLUMN FACE EXCEPT FOR HOOKS FROM INTERIOR FACE PARALLEL
- TO SLAB EDGE. C. HOOKS TO EXTEND TO TOP OF SLAB AND PLACED IN THE SAME LAYER AS AND PARALLEL TO SLAB REINFORCING IN [TOP UPPER LAYER][SAME DIRECTION AS HOOK] U.N.O.
- DO NOT CRANK COLUMN VERTICAL BARS GREATER THAN 35M.

AT CRANKS UNLESS NOTED	VERTICAL BAR SIZE	TIE SETS
OTHERWISE	UP TO 30M	4-10M TIE SETS
	35M	5-10M TIE SETS

COLUMN TIE ARRANGEMENTS



- NOTES:
- MAXIMUM CLEAR DISTANCE BETWEEN VERTICAL BARS ENCLOSED BY THE CORNER OF A TIE, AND WITHOUT AN INTERMEDIATE BAR, IS 500 mm.
- MAXIMUM ONE BAR MAY BE PLACED BETWEEN TIED BARS. MAXIMUM CLEAR DISTANCE BETWEEN TIED VERTICAL BARS FOR THIS CASE IS 300 mm.
- ALL TIES TO HAVE 135° HOOKS. COLUMNS IDENTIFIED WITH BUCKLING PREVENTION TIES SHALL HAVE 135° SEISMIC HOOKS.
- CLOSED TIES MAY ALWAYS BE SUBSTITUTED FOR CROSS-TIES.
- ROUND OR OCTAGONAL COLUMNS TO HAVE 6 VERTICAL BARS MINIMUM. OFFSET LOCATION OF TIE HOOKS OVER HEIGHT OF COLUMN.

COLUMN TIE SPACING

MAXIMUM VERTICAL SPACING OF 10M TIES IN COLUMNS - CONCRETE f'c ≤ 50 MPa										
COLUMN WIDTH		COLUMN VERTICAL BAR SIZE								
(SHORTEST SIDE)	15M	20M	25M	30M	35M	45M				
200 mm	200 mm	200 mm	200 mm	200 mm	200 mm	200 mm				
250 mm	240 mm	250 mm	250 mm	250 mm	250 mm	250 mm				
300 mm	240 mm	300 mm	300 mm	300 mm	300 mm	300 mm				
350 mm	240 mm	310 mm	350 mm	350 mm	350 mm	350 mm				
400 mm	240 mm	310 mm	400 mm	400 mm	400 mm	400 mm				
450 mm	240 mm	310 mm	400 mm	450 mm	450 mm	450 mm				
500 mm AND THICKER	240 mm	310 mm	400 mm	480 mm	480 mm	480 mm				

MAXIMUM VERTICAL SPACING OF 10M TIES IN COLUMNS - CONCRETE f'c > 50 MPa										
COLUMN WIDTH	COLUMN VERTICAL BAR SIZE									
(SHORTEST SIDE)	15M	20M	25M	30M	35M	45M				
200 mm	150 mm	150 mm	150 mm	150 mm	150 mm	150 mm				
250 mm	180 mm	180 mm	180 mm	180 mm	180 mm	180 mm				
300 mm	180 mm	225 mm	225 mm	225 mm	225 mm	225 mm				
350 mm	180 mm	230 mm	260 mm	260 mm	260 mm	260 mm				
400 mm	180 mm	230 mm	300 mm	300 mm	300 mm	300 mm				
450 mm	180 mm	230 mm	300 mm	330 mm	330 mm	330 mm				

NOTES:

500 mm AND

THICKER

FOR COLUMNS CONTAINING BUNDLED BARS, MAXIMUM SPACING NOT TO EXCEED SMALLER OF 300 mm OR VALUE IN TABLE.

180 mm | 230 mm | 300 mm | 360 mm | 360 mm | 360 mm



MASONRY NOTES

READ IN CONJUNCTION WITH THE MASONRY SPECIFICATIONS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

- ALL MASONRY WORK SHALL CONFORM TO CAN/CSA S304.1 AND IT'S REFERENCED DOCUMENTS, INCLUDING BUT NOT LIMITED TO:
- CONCRETE BLOCK TO CAN/CSA-A165.1 TYPE H/15/A/M UNLESS NOTED
- OTHERWISE (BASED ON NET AREA)
- MASONRY WIRE REINFORCING TO CAN/CSA G30.5.
- REINFORCING BARS TO CAN/CSA-G30.18 400 MPa. GROUT PREPARED OFF SITE SHALL BE COURSE PREPARED BY PROPERTY SPECIFICATION IN ACCORDANCE WITH CAN/CSA-A179. MINIMUM 28 DAY COMPRESSIVE STRENGTH – 12.5 MPa
- SLUMP 200mm (MIN) TO 250mm (MAX).
- GROUT SHALL BE FINE WHERE MAXIMUM GROUT SPACE IS LESS THAN 50mm IN ANY DIRECTION. TESTING SHALL BE IN ACCORDANCE WITH CSA-A179 AND ITS
- APPENDIX GROUT PREPARED ON SITE SHALL BE PREPARED BY PROPORTION
- SPECIFICATION IN ACCORDANCE WITH CAN/CSA-A179.
- MORTAR SHALL BE TYPE S PREPARED BY PROPORTION SPECIFICATION IN ACCORDANCE WITH CAN/CSA-A179.
- CONNECTIONS TO CAN/CSA-A370.
- PRACTICE TO CAN/CSA-A371.
- COMPRESSIVE STRENGTH FOR EVERY 200 SQUARE METERS OF CONSTRUCTED WALL.
- THE MASONRY CONTRACTOR SHALL BE A MEMBER OF THE CANADIAN MASONRY CONTRACTORS ASSOCIATION.
- NO MASONRY CONSTRUCTION SHALL BE PERMITTED WITHOUT THE CONTRACTOR ENSURING ALL NECESSARY PROTECTION AND CONSTRUCTION METHODS CAN BE READILY IMPLEMENTED IN ACCORDANCE WITH CAN/CSA-A371 PRIOR TO TEMPERATURES AND WEATHER CONDITIONS REACHING THE FOLLOWING:
 - HOT WEATHER TEMPERATURE ABOVE +30°C
 - COLD WEATHER TEMPERATURE BELOW +5°C WET WEATHER OR SNOW PROTECTION (STORAGE AND CONSTRUCTION)
- HIGH WIND CONSTRUCTION
- ALL WALLS SHALL BE BUILT USING RUNNING BOND. STACK BOND SHALL NOT BE USED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- MORTAR MAY NOT BE SUBSTITUTED FOR GROUT.
- ALL MORTAR JOINTS IN CONCRETE BLOCK WORK SHALL BE TOOLED CONCAVE UNLESS NOTED OTHERWISE IN THE ARCHITECTURAL DRAWINGS.
- FILL BOND BEAMS AND CELLS CONTAINING VERTICAL REINFORCEMENT OR
- BOLTS WITH GROUT, VIBRATE OR PUDDLE TO COMPLETELY FILL CELLS.
- UNLESS MASONRY WALLS ARE NOTED AS "FULLY GROUTED" OR "GROUT SOLID" GROUT ONLY CELLS CONTAINING VERTICAL OR HORIZONTAL REINFORCEMENT, ANCHOR RODS, BOLTS OR OTHER SPECIFICALLY NOTED AREAS. VIBRATE OR PUDDLE TO ENSURE CELLS ARE FILLED COMPLETELY AND PROPERLY CONSOLIDATED.
- GROUTING OF WALLS SHALL BE CARRIED OUT FOLLOWING ONE OF TWO METHODS TO BE APPROVED BY THE ENGINEER.
- A. LOW LIFT GROUTING

Β.

- LIFTS SHALL NOT EXCEED 1400mm IN HEIGHT. TERMINATE EACH LIFT 40mm BELOW OF THE TOP OF EACH UNIT.
- HIGH LIFT GROUTING LIFTS SHALL NOT EXCEED 2400mm IN HEIGHT.
- THE MASONRY MUST BE ALLOW TO CURE FOR AT LEAST 4 HOURS PRIOR TO PLACING GROUT. GROUT SLUMP MUST BE MAINTAINED AT 250mm.
- THE WALL SHALL NOT INCLUDE ANY INTERMEDIATE BOND BEAMS BETWEEN THE TOP AND BOTTOM OF THE POUR.
- CLEANOUTS SHALL BE PROVIDED FOR ALL CELLS TO BE REINFORCED AND FILLED WITH GROUT. REPEAT CLEANOUTS ABOVE BOND BEAMS. THESE CELLS ARE TO BE KEPT CLEAR AND CLEAN OF MORTAR
- 10. GROUT NOT PLACED WITHIN 1.5 HOURS AFTER WATER IS FIRST ADDED TO THE BATCH SHALL BE DISCARDED.
- 11. REINFORCEMENT SHALL HAVE SPLICES IN ACCORDANCE WITH THE REINFORCING SPLICE DETAIL.
- 12. COVER FOR VERTICAL REINFORCEMENT EXPOSED TO WEATHER OR EARTH SHALL BE INCREASE TO 50mm.
- 13. REINFORCING BAR POSITIONERS SHALL BE PROVIDED AS PER THE TYPICAL DETAIL TO ENSURE BARS REMAIN WITHIN TOLERANCE DURING PLACEMENT OF GROUT OR MORTAR.
- 14. JOINT REINFORCEMENT MUST BE HOT-DIP GALVANIZED, EPOXY-COATED, OR STAINLESS STEEL WHEN USED IN EXTERIOR WALLS OR INTERIOR WALLS EXPOSED TO DIRECT MOISTURE OR HIGH HUMIDITY.
- 15. PROVIDE LADDER STYLE HORIZONTAL REINFORCEMENT FOR ALL REINFORCED WALLS AND TRUSS STYLE REINFORCEMENT FOR UNREINFORCED WALLS UNLESS NOTED OTHERWISE.
- 16. PROVIDE PRE-FABRICATED CORNER AND TEE SECTIONS FOR JOINT REINFORCEMENT.
- 17. PROVIDE DOWELS INTO FOUNDATION WALLS, CONCRETE FOOTINGS OR SLAB-ON-GRADE:
 - TO MATCH VERTICAL REINFORCEMENT DETAILED FOR WALLS. AT MINIMUM PROVIDE 15M@1200 STARTER DOWELS WITH STANDARD
- HOOK EMBEDMENT AND 1200mm PROJECTION INTO MASONRY ABOVE. 18. PROVIDE LINTELS OVER ALL OPENINGS IN WALLS. SEE LINTEL SCHEDULE,
- UNLESS NOTED OTHERWISE ON PLAN. CONNECT BACK TO BACK ANGLES TOGETHER AT 500mm O/C MAXIMUM. PROVIDE 150mm MINIMUM END BEARING FOR LINTELS.
- 19. CONTROL JOINTS SHALL BE PLACED AT A MAXIMUM SPACING OF 10000mm UNLESS NOTED OTHERWISE
 - REFER TO CONTROL JOINT DETAIL FOR HOW REINFORCEMENT SHALL BE CARRIED THROUGH AT BOND BEAMS UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE A SHOP DRAWING SHOWING COORDINATED
 - CONTROL JOINTS WITH STRUCTURAL NOTES, OPENINGS AND ARCHITECTURAL DRAWINGS. C. LOCATIONS OF CONTROL JOINTS SHALL BE LAID OUT TO ENSURE NO
 - FREE STANDING WIDTHS OF WALL LESS THAN 4000mm ARE CREATED.
- 20. PROVIDE VERTICAL MOVEMENT JOINTS BETWEEN ALL LOAD-BEARING AND NON LOAD-BEARING WALLS.
- 21. OUTSIDE FACES OF EXTERIOR WALLS SHALL BE WATERPROOFED AS PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.







(N SEISMIC ZONE)										
WALL	(F	INTERIO	R ′all)		E (Winc	XTERIOR	Vall)				
THICK. (mm)	Maximum Wall Height (mm) and Minimum Reinforcing				Maximum and Minim	Wall Heig	ht (mm) orcing				
Pressure (kPa)				Press	sure (kPa)	0.00	0.40				
	0.25	0.375	0.50	1.00	1.20	1.50	2.00	2.40			
140	4200 Unreinf.	3400 Unreinf.	3000 Unreinf.	4800 10M @400 V	4400	4200 15M @600 V	4000 15M @400 V	3800 15M @400 V			
	5000 10M @400 V	5000 10M @400 V	5000 10M @400 V		10M @400 V						
100	5600 Unreinf.	5000 Unreinf.	4200 Unreinf.	6200	6000	5600 15M @600 V	5200 15M @400 V	5000 20M @600 V			
100	6800 15M @1200 V	6800 15M @1200 V	6800 15M @800 V	15M @600 V	15M @600 V						
240	7200 Unreinf.	6200 Unreinf.	5400 Unreinf.	7600	7200	7200 20M @600 V	6600 20M @400 V	6200 20M @400 V			
240	8600 15M @600 V	8600 15M @600 V	8400 15M @600 V	20M @800 V	20M @600 V						
200	8600 Unreinf.	7600 Unreinf.	6600 Unreinf.	8600	8600	8400 20M @400 V	7600	7200 20M @400 V			
230	9200 20M @600 V	8600 20M @600 V	8600 20M @600 V	20M @600 V	20M @600 V		20M @400 V				



Creative Thinking Practical Results

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3	2025-04-11	ISSUED FOR TENDER							
2	2024-09-18	ISSUED FOR PERMIT							
1	2023-01-31	ISSUED FOR 50% COSTING							
No.	Date	Description							
lssue	ssue Record								

RJC Project Number TOR.130977.0001

Project Name **BLUFFER'S PARK EAST** WASHROOM

1 Brimley Road South, Scarborough, Toronto, ON

Sheet Title

GENERAL NOTES & TYPICAL DETAILS

Scale Project No. 21-029 Drawn By DP Checked By GJ

Print Date 2025-04-14 4:25:48 PM As indicate

Sheet Number **S008**



STRUCTURAL STEEL - GENERAL

- STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING U.N.O.:
- -- CSA G40.21 GRADE 345WM / A. W AND WT SHAPES ----ASTM A992 CSA G40.21 CSA G40.21 350W, C, L, M, MC, MT, S, AND -----ASTM A992, OR ST SHAPES ASTM A572 GRADE 50
- HP SHAPES --- ASTM A572 GRADE 50 **RECTANGULAR OR --**- ASTM A500 GRADE C, SQUARE HSS CSA G40.21 GRADE 350W, OR ASTM A1085 CLASS C OR ASTM A1085 ROUND HSS --ASTM A500 GRADE C - ASTM A53 GRADE B PIPE -ROLLED PLATES AND BARS ------ CSA G40.21 GRADE 300W ----- CSA G40.21 GRADE 350W
- WWF AND WRF SHAPES ------BOLTS (SEE PLANS AND DETAILS) ------ ASTM F3125 GRADE A325
- OR A490 STRUCTURAL STEEL ANCHOR RODS ---- ASTM F1554
- (UNLESS NOTED OTHERWISE) GRADE 36 MINIMUM REINFORCING BAR ANCHOR BOLTS ----- CSA G30.18 GRADE 400R
- USE OF STRUCTURAL STEEL SHAPES, PLATE OR BARS WITH HIGHER 2. GRADE THAN NOTED ABOVE SUBJECT TO APPROVAL BY RJC.
- ALL ASTM F1554 ANCHOR RODS SHALL HAVE SHOP-APPLIED COLOUR 3. MARKING TO FACILITATE IDENTIFICATION OF GRADE IN FIELD: GRADE 36 = BLUE; GRADE 55 = YELLOW; GRADE 105 = RED.
- DESIGN FORCES INDICATED ON DRAWINGS FOR STRUCTURAL STEEL WORK ARE FACTORED FORCES UNLESS NOTED OTHERWISE. FORCES ARE VERTICAL SHEAR FORCES UNLESS NOTED OTHERWISE. METRIC

۹.	FORCES	kN
З.	MOMENTS	kN-m
С.	LINE LOADS	kN/m
D.	DISTRIBUTED LOADS	kPa

SEE "DESIGN LOADS" NOTES FOR DEFINITIONS AND VALUES OF LIVE LOAD, DEAD LOAD AND SUPERIMPOSED DEAD LOAD. SEE ALSO PLANS FOR OTHER LOAD/FORCE REQUIREMENTS.

THE TABLE BELOW:

L

- NO ADDITIONAL DISTRIBUTED OR CONCENTRATED LOADS PERMITTED ABOVE OPENING.
- EACH SIDE OF OPENING.
- GALVANIZED AFTER FABRICATION. TOUCH UP ALL DAMAGED GALVANIZING WITH GALVACON OR EQUIVALENT ZINC RICH PAINT.





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	"Pricing" o prices bas	r "Costi ed on s	ng" drawings uch drawing:	are not cor s must allow	nplete an for this.	d any
3.	is obtained from what Use of the Issued/Re unless ma Issued/Re The drawin "tender" un	rinssion d from F is show vision c vision c ngs sha nless sc	ings is limite olumn. Do n sued for Cor olumn, and t not be use	k "as consti rawings. d to that ide ot construct astruction" b hen only for d for "pricing the Issued/	entified in from thes y RJC in the parts y ' costir Revisions	the se drawings the noted. ng" or s column.
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POS	ST-INSTALLED ADHESIVE AND MECHANICAL ANCHORS
2.0	INSTALLATION (CONT'D)
2.9	DO NOT CUT REINFORCING BARS TO INSTALL ANCHORS UNLESS THE STRUCTURAL DRAWINGS SPECIFICALLY NOTE FOR A PARTICULAR DETAIL THAT THE REINFORCING BARS IN THE CONCRETE OR MASONRY CAN BE CUT.
2.10	EXISTING REINFORCING BARS IN THE CONCRETE OR MASONRY STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF CONCRETE ANCHORS, BY HILTI FERROSCAN, HILTI PS 1000, GPR, X-RAY, OR OTHER MEANS, BEFORE ANY HOLES ARE DRILLED.
2.11	AT LOCATIONS OF INTERFERENCE BETWEEN CONCRETE ANCHORS AND EXISTING REINFORCEMENT, ADJUST PROPOSED LOCATIONS OF ANCHORS AS REQUIRED TO AVOID CUTTING REINFORCEMENT. SUBMIT A PROPOSED ANCHOR LAYOUT TO RJC FOR REVIEW AND APPROVAL BEFORE INSTALLING ANCHORS.
2.12	WHEN ANCHORS ARE USED TO ATTACH STRUCTURAL STEEL, THE CONTRACTOR SHALL USE A TEMPLATE TO LOCATE THE ANCHOR HOLES. IF THIS IS NOT DONE OR IF ANCHORS ARE RE-LOCATED DUE TO CONFLICTS, THE CONTRACTOR SHALL PREPARE TEMPLATES OF THE AS-BUILT ANCHOR POSITIONS UPON COMPLETION OF ANCHOR INSTALLATION. THE CONTRACTOR SHALL REFER TO THESE TEMPLATES FOR THE FABRICATION OF THE STEEL STRUCTURE.
2.13	DO NOT OVERSIZE HOLES IN STEEL MATERIAL TO FIT ANCHOR LOCATIONS EXCEPT FOR COLUMN BASE PLATE HOLES WHICH ARE FABRICATED SLIGHTLY OVERSIZED AS PER THE "STRUCTURAL STEEL" GENERAL NOTES ON THESE DRAWINGS.
2.14	THE EXPOSED PORTION OF ANCHORS INCLUDES MANUFACTURER'S MARKINGS THAT DESIGNATE ANCHOR TYPE, MATERIAL GRADE, LENGTH, ETC. CUTTING OFF OF THESE MARKINGS PRIOR TO REVIEW OF ANCHOR INSTALLATION IN CONFORMANCE WITH THE STRUCTURAL DRAWINGS WILL RESULT IN REJECTION OF THE ANCHORS.
2.15	UNLESS NOTED OTHERWISE, ALL ABANDONED HOLES IN CONCRETE SHALL BE FILLED WITH NON-SHRINK GROUT OR EPOXY. GROUT SHALL BE PLACED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND PACKAGING.
<u>3.0</u>	ON-SITE TRAINING AND CERTIFICATION
3.1	THE CONTRACTOR SHALL RETAIN AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THE ANCHORING PRODUCTS SPECIFIED.
3.2	ALL PERSONNEL WHO INSTALL ANCHORS MUST HAVE RECEIVED TRAINING WITHIN THE PREVIOUS 12 MONTHS FOR THE SPECIFIC ANCHOR SYSTEM TO BE UTILIZED.
3.3	PERSONNEL INSTALLING ADHESIVE ANCHORS IN HORIZONTAL, UPWARDLY INCLINED OR OVERHEAD APPLICATIONS MUST RECEIVE SPECIALIZED INSTALLATION TRAINING BY THE MANUFACTURER SPECIFIC TO THESE ANCHOR ORIENTATIONS AND FOR USE OF THE REQUIRED INSTALLATION ACCESSORIES AS SPECIFIED BY THE MANUFACTURER.
3.4	PERSONNEL INSTALLING ADHESIVE ANCHORS IN WATER-FILLED HOLES OR SUBMERGED CONDITIONS MUST RECEIVE SPECIALIZED INSTALLATION TRAINING BY THE MANUFACTURER.
3.5	SUBMIT CERTIFICATION OF TRAINING FOR ALL OF THE CONTRACTOR'S PERSONNEL WHO MAY BE INSTALLING ANCHORS TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
<u>4.0</u>	REVIEW AND TESTING OF ANCHORS
4.1	INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION IN ACCORDANCE WITH CSA A23.3 BY A SPECIAL INSPECTOR WHO IS SPECIALLY QUALIFIED FOR THAT WORK. THE SPECIAL INSPECTOR IS TO BE FROM AN INDEPENDENT TESTING AGENCY RETAINED BY THE OWNER.

4.2 REFER TO THE GENERAL NOTES AND THE SPECIFICATIONS FOR TESTING REQUIREMENTS TO BE COMPLETED BY AN INDEPENDENT TESTING AGENCY RETAINED BY THE OWNER.



STRUCTURAL STEEL -FABRICATION AND DETAILING

FABRICATION, ERECTION, STRUCTURAL DESIGN, AND DETAILING OF ALL STEEL SHALL BE IN ACCORDANCE WITH CSA S16. PRIOR TO SUBMITTING SHOP DRAWINGS THE CONTRACTOR SHALL NOTIFY RJC IN WRITING THAT THE FABRICATOR IS CERTIFIED TO A MINIMUM OF DIVISION 2 OF CSA W47.1. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO START OF STEEL 3 FABRICATION. ALSO REFER TO "SHOP DRAWINGS" NOTE IN THE GENERAL NOTES SECTION OF THE STRUCTURAL DRAWINGS. FILLET WELDS SHALL BE 5 mm MINIMUM UNLESS NOTED OTHERWISE. BOLTS SHALL BE 3/4" MINIMUM A325 UNLESS NOTED OTHERWISE. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTED PIECE AND BE DESIGNED AS BEARING CONNECTIONS, U.N.O. UNLESS NOTED OTHERWISE, BOLTED CONNECTIONS WITH OVERSIZED OR SLOTTED HOLES SHALL HAVE WASHERS PER CISC STANDARD PRACTICE: OVERSIZED AND SHORT SLOTS: HARDENED WASHERS. LONG SLOTS: PLATE WASHERS FULLY COVERING THE SLOTS. R IN ADDITION TO ALL OTHER CRITERIA SPECIFIED IN ASTM F1554, ALL HOOKED ANCHOR RODS IN CONCRETE SHALL BE MANUFACTURED WITH A MINIMUM INSIDE BEND RADIUS OF 3 TIMES THE ROD DIAMETER. UNLESS NOTED OTHERWISE. ALL WELDED HEADED STUDS AND WELDED DEFORMED BAR ANCHORS SHALL BE INSTALLED AS PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS OR SHOP FILLET WELDED TO DEVELOP THE TENSILE FACTORED RESISTANCE OF THE BAR. ANY FIELD FILLET WELDED DEFORMED BARS OR STUDS WILL BE REJECTED. SEE PLANS. SECTIONS. DETAILS, AND SCHEDULES FOR LOCATIONS ETC., THE CONTRACTOR SHALL CO-ORDINATE THE DESIGN. SUPPLY, AND INSTALLATION OF ALL STUDS AND ANCHORS, INCLUDING, BUT NOT LIMITED TO STUDS AND DEFORMED BAR ANCHORS ON COMPOSITE BEAMS, DRAG STRUTS, EMBEDDED PLATES, ETC. 10. UNLESS NOTED OTHERWISE. COLUMN CAP PLATES SHALL BE 16 mm THICK AND COLUMN BASE PLATES SHALL BE 20 mm MINIMUM THICK. 11. PROVIDE 6 mm CAP PLATES FOR ALL HSS MEMBERS U.N.O. 12. CONNECTION DETAILS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE ALTERED BY THE CONTRACTOR WITHOUT WRITTEN APPROVAL FROM READ JONES CHRISTOFFERSEN LTD. 13. UNLESS NOTED OTHERWISE ON THE PLANS, REFER TO THE DETAILS IN THE GENERAL NOTES FOR FRAMING FOR SUPPORT OF ROOF TOP MECHANICAL EQUIPMENT. 14. STEEL SHALL BE PREPARED AND FINISHED IN ACCORDANCE WITH CSA S16 AND THE ARCHITECTURAL DRAWINGS AND PAINTING SPECIFICATIONS WHICH MAY INCLUDE ADDITIONAL CLEANING AND PRIMING REQUIREMENTS. 15. ALL STRUCTURAL STEEL OUTSIDE OF THE BUILDING ENVELOPE TO BE HOT-DIP GALVANIZED UNLESS NOTED OTHERWISE. DESIGN DRAWINGS INCLUDE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. SEE ALSO ARCHITECTURAL DRAWINGS FOR ROOF AND FLOOR ELEVATIONS, ROOF SLOPES, EDGE DETAILS, AND ADDITIONAL DIMENSIONS AND DETAILS. WHERE ELEVATIONS, ROOF SLOPES, ETC., ARE SHOWN ON THE STRUCTURAL DRAWINGS, THEY MUST BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS. 17. UNLESS INDICATED ON APPROVED SHOP DRAWINGS OR OTHERWISE APPROVED IN WRITING BY RJC, DO NOT CONSTRUCT REINFORCED OR UN-REINFORCED SLEEVES THROUGH STEEL BEAMS 18. UNLESS NOTED OTHERWISE, DO NOT OVERSIZE HOLES IN STEEL TO FIT ANY CAST-IN-PLACE OR POST-INSTALLED ANCHORS WITHOUT APPROVAL IN WRITING BY RJC. 19. UNLESS NOTED OTHERWISE, CAST-IN-PLACE ANCHOR RODS FOR COLUMN BASES TO HAVE PLACEMENT TOLERANCE PER CSA A23.1 AND CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL, ANCHOR ROD HOLE SIZES IN STEEL PLATES NOT TO EXCEED DIAMETER OF FASTENER + 6 mm. 20. UNLESS NOTED OTHERWISE, HOLE SIZES IN STEEL PLATES FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH CSA S16 REQUIREMENTS FOR STANDARD DIAMETER HOLES IN BOLTED STEEL CONNECTIONS: A. METRIC FASTENERS SMALLER THAN M24: DIAMETER OF FASTENER + 2 mm. US CUSTOMARY FASTENERS SMALLER THAT 1": DIAMETER OF FASTENER + 1/16". [ALSO REFER TO "POST-INSTALLED MECHANICAL AND ADHESIVE ANCHOR" NOTES AND "RENOVATION" NOTES.] 21. GENERAL SEISMIC REQUIREMENTS WHERE CONNECTION FORCES ARE NOT SHOWN ON THE DRAWINGS, THE CONNECTION DESIGN SHALL SATISFY THE REQUIREMENTS OF CSA S16 - CLAUSE 27. STEEL IN THE ENERGY DISSAPATION SYSTEM SHALL SATISFY THE Β. LIMITS OF F_v, F_u, AND CHARPY V-NOTCH IMPACT REQUIREMENTS AS NOTED IN CSA S16 - CLAUSE 27.1.5. WELDS AND WELD MATERIAL SHALL SATISFY CSA S16 - CLAUSE 27.1.5.3 (CHARPY REQUIREMENTS). BOLTED CONNECTIONS SHALL SATISFY CSA S16 - CLAUSE 27.1.6. D. 22. UNLESS NOTED, BEAM AND GIRDER SHEAR CONNECTIONS TO EMBEDDED PLATES SHALL BE DOUBLE ANGLE FRAMING CONNECTIONS WELDED TO THE BEAM WEB THUS: - SLOTTED HOLE FOR 2D ERECTION BOLT d → Mi lle Mf = Vf x e 23. UNLESS NOTED OTHERWISE ALL CONNECTIONS FOR BEAMS AND GIRDERS SHALL BE DESIGNED FOR A SHEAR BASED ON THE MEMBER'S FULL MOMENT RESISTANCE CAPACITY RELATED TO A UNIFORM LOAD ON A SIMPLE SUPPORTED SPAN. 24. TOP FLANGES OF BEAMS TO BE FREE OF ALL PAINT, DIRT, HEAVY RUST, MILL SCALE, SAND AND OTHER MATERIALS WHICH WILL INTERFERE WITH WELDING OF STUD SHEAR CONNECTIONS AND STEEL DECK TO BEAMS. CONT'D TO LEFT...



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No.	Date	Description
1	2023-01-31	ISSUED FOR 50% COSTING
2	2024-09-18	ISSUED FOR PERMIT
3	2025-04-11	ISSUED FOR TENDER

RJC Project Number

TOR.130977.0001

BLUFFER'S PARK EAST WASHROOM

1 Brimley Road South, Scarborough, Toronto, ON

Sheet Title

Project Name

GENERAL NOTES & TYPICAL DETAILS

Project No. 21-029 Drawn By DP Checked By GJ

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Sheet Number **S010**



G		ED-LAMINATED TIMBER (GLULAM)		TING OF I	M RIGHT POST-INSTA			ND MECHANICAL	
1.	GLU	LAM COLUMN AND BEAM MEMBERS SHALL SATISFY THE FOLLOWING:							
	A.	SIZING DESCRIBED IN THIS DOCUMENT CONSIDERS NORDIC LAM MANUFACTURED BY NORDIC STRUCTURES AS MINIMUM ACCEPTABLE SIZE. ALL DETAILS CONSIDER THESE SIZES. ALTERNATIVE MAXIMUM	REPAIR REPORT SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OR TERRITORY WHERE THE WORK IS DONE.						
		LISTED AS AN APPROVED EQUIVALENT SUBJECT TO FURTHER REVIEW	19. THE TEST REPORT SHALL BE SUBMITTED FOR REVIEW BY RJC NO LATER THAN 72 HOURS AFTER THE TESTING IS COMPLETED.						
		TO BE REVISED BY SUPPLIER, ITEMIZED AND ALLOWED FOR IN TENDER.	20.	THE TEST RE	EPORT SHALL DE BUT NOT LIMITE	ETAIL ALL OE D TO, THE FO	SERVATIONS A	ND RESULTS	
	В.	NORDIC STRESS GRADE : BEAMS: Fb = 30.7 MPa, Fv = 2.5 MPa, Fcp = 7.5 MPa, E = 13,200 MPa 24f-E FOR ALL SINGLE SPAN BEAMS TYPICAL U.N.O. 24f-Ex FOR ALL MULTIPLE SPAN AND BRACING CANTILEVERED BEAMS TYPICAL U.N.O. COLUMNS / BRACES: 24c-EX FOR ALL COLUMNS IN COMPRESSION AND BENDING TYP. U.N.O.		 A. LOCAT DIAGR/ CLEAR LOCAT B. DATE O TIME IS TESTIN 	ION OF TESTING AM, ANNOTATED LY IDENTIFYING ION WERE TEST OF INSTALLATION S ALSO TO BE IN IG TIMES ARE LE	WITHIN THE PHOTOGRA WHICH ANC ED. N AND DATE DICATED WH ESS THAN 48	E PROJECT AND PH OR OTHER HORS AT A PAP OF TESTING OI IERE THE INST HOURS APART	D SUITABLE NOTATION RTICULAR F ANCHORS. ALLATION AND	
		14t-E FOR ALL COLUMNS IN COMPRESSION TYPICAL U.N.O. 086 STRESS GRADE:		C. EMBED ANCHO TO VER	DMENT DEPTH, M DRS AND ADHESI RIFY EMBEDMEN	IANUFACTUF IVE PRODUC T DEPTH AN	RER'S MARKING T UTILIZED. TH D OTHER PROF	RKINGS OF TESTED ED. THE METHOD USED PROPERTIES SHALL BE	
		BEAMS:		DOCUN	MENTED.				
		24f-X FOR ALL SINGLE SPAN BEAMS AND BRACES TYPICAL U.N.O. 24f-EX FOR ALL MULTIPLE SPAN OR CANTILEVERED BEAMS TYP U.N.O. COLUMNS / BRACES:	 D. TEST PROCEDURE UTILIZED FOR EACH ANCHOR. E. TEST LOADS APPLIED, DURATION OF SUSTAINED LOAD FO ANCHOR AND NUMBER OF LOADING CYCLES WHERE APPL 						
		14t-E FOR ALL COLUMNS IN TENSION TYPICAL U.N.O.	F. ANY OTHER RELEVANT OBSERVATIONS BY THE TESTING ENGIN						
	C.	APPEARANCE GRADE : "QUALITY GRADE" PER TABLE 6.8 OF CSA 086.					LD HAVE A MEA	ANINGFUL IMPACT	
	D.	MOISTURE CONTENT : 12 +/- 2% MAXIMUM, AND NOT EXCEED 14%			E IN-SERVICE FE			10K3.	
	E.			OOF L	OAD TES	STS O	F POST	-INSTALLED	
	INTE EXT	RIOR FOR ALL ELEMENTS INSIDE BUILDING ENVELOPE TYPICAL U.N.O. ERIOR FOR ALL ELEMENTS OUTSIDE BUILDING ENVELOPE TYP. U.N.O.			S AND R	EBAR	IN MAS	ONRY	
2.	GLU MEE	LAM MEMBERS SHALL BE MANUFACTURED BY A CSA APPROVED PLANT TING THE REQUIREMENTS OF CSA 0177.	AN DESC	CHOR RIPTION	DRAWING OR DETAIL REFERENCE	NUMBER OR PERCENT	PROOF LOAD (kN) OR TORQUE	COMMENTS / LOCATION	
3.	GLU ENV DUF EQU	LAM MEMBERS SHALL BE KEPT DRY AND PROTECTED FROM THE IRONMENT DURING STORAGE ON OR OFF THE PROJECT SITE AND ING ERECTION SUCH AS ILVA KLIMA 3:1 + 10ML WET FILM OR APPROVED IVALENT AS PER THE MANUFACTURES REQUIREMENTS.				TO TEST	(kN-m)		
4.	ALL SHA	STEEL CONNECTIONS / HARDWARE USED FOR CONNECTING BEAMS LL BE CAPABLE OF CARRYING THE SHEAR STRENGTH OF THE MEMBER.							
5.	THR APP VOII ON J	EADED ROD CONNECTOR EPOXY TO BE SIKA SIKADUR 35 HI-MOD, OR ROVED EQUIVALENT. ENSURE RODS ARE PLACED CENTRICALLY AND D FREE FILLING OF EPOXY OVER LENGTH OF ROD. RODS TO BE SHOWN ALL SHOP DRAWINGS. RODS TO BE FACTORY INSTALLED.							
6.	MAX CSA SHC SUS ALS "CAI	IMUM DEFLECTIONS INCLUDING LONG TERM CREEP PER O86 5.4.2 & 5.4.3 RT TERM LIVE LOAD = L/480 TAINED LONG TERM TOTAL LOAD = L/360, MAX 25 mm U.N.O. O SEE "WOOD FRAME MOVEMENT DUE TO SHRINKAGE" AND CULATED STRUCTURAL MOVEMENTS" GENERAL NOTES.							
7.	HOF DRA MID REV	RIZONTAL BEAM SLEEVE REQUIREMENTS PER SPRINKLER SHOP WINGS. NO SLEEVES ALLOWED OUTSIDE ZONE OF BEAM BOUNDED BY DLE THIRD LENGTH AND DEPTH OF BEAM. ALL SLEEVES TO BE IEWED BY RJC PRIOR TO FABRICATION.							
8.	IF E EQL MEE SPE	JROPEAN ELEMENTS ARE PROPOSED, THE SUPPLIER MUST SUPPLY AN IVALENCY REPORT FROM AN ENGINEER STATING THAT THE ELEMENT T ALL THE REQUIREMENTS OF CSA IN COMPARISON TO THE CANADIAN CIFICATION.							
9.	SEE	"MASS TIMBER CONNECTIONS" NOTE.							
			 						
			<u>NOTI</u> 1.	<u>S:</u> PROOF LOAE "TESTING OF NOTE U.N.O.	DING TO BE CON POST-INSTALLE	DUCTED IN A ED ADHESIVE	ACCORDANCE N E AND MECHAN	WITH THE ICAL ANCHORS"	
		2. PROOF LOAD INDICATED ON DETAILS USING DESIGNATION "PL = xx "PL = xx kN.m" AT ANCHOR CALL-UP.							

WHERE NO PROOF LOAD LEVEL IS GIVEN IN TABLE OR ON PLANS AND DRAWINGS, REQUEST PROOF LOAD INFORMATION FROM ENGINEER OF RECORD MINIMUM OF 72 HOURS BEFORE THE TEST ARE TO BE PERFORMED.

FIRE RATING FOR STRUCTURAL STEEL

- TO DETERMINE THE FIRE RATING BASED ON ULC RATINGS, THE STEEL STRUCTURE IS CONSIDERED RESTRAINED.
- THE STRUCTURE IS DESIGNED AS NON-LOAD RESTRICTED. THE ULC FIRE 2. RATED ASSEMBLIES MUST BE CHOSEN AS NON-LOAD RESTRICTED.

TESTING OF POST-INSTALLED ADHESIVE AND MECHANICAL ANCHORS

- THE OWNER SHALL RETAIN AN INDEPENDENT TESTING AGENCY TO PROVIDE AN ON-GOING SERVICE OF ON-SITE QUALITY CONTROL REVIEWS TO ENSURE THAT ANCHORS ARE BEING INSTALLED IN ACCORDANCE TO THE ANCHOR MANUFACTURER'S SPECIFICATIONS.
- THE INDEPENDENT TESTING AGENCY FIELD PERSONNEL COMPLETING 2 REVIEWS OF ANCHOR INSTALLATION AND PERFORMING ANCHOR TESTING SHALL BE QUALIFIED FOR THAT WORK AND TRAINED BY THE MANUFACTURER'S REPRESENTATIVE IN THE INSTALLATION AND REVIEW REQUIREMENTS OF ALL ANCHOR SYSTEMS USED ON THE PROJECT INCLUDING SPECIALIZED TRAINING FOR HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS.
- THE INDEPENDENT TESTING AGENCY FIELD PERSONNEL COMPLETING 3. **REVIEWS OF ANCHOR INSTALLATION AND PERFORMING ANCHOR TESTING** HAVE CURRENT CERTIFICATION (WITHIN PAST 5 YEARS) IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLATION CERTIFICATE PROGRAM OR EQUIVALENT. ACI/CSRI CERTIFICATION DOCUMENTS SHALL BE SUBMITTED FOR REVIEW A MINIMUM OF 72 HOURS BEFORE THE PERSONNEL FROM THE INDEPENDENT TESTING AGENCY COMPLETES ANY TESTING OR OBSERVATIONS ON THE PROJECT.
- ANCHORS NOTED FOR "CONTINUOUS SPECIAL INSPECTION" OR "PERIODIC SPECIAL INSPECTION" ARE TO BE INSPECTED BY THE INDEPENDENT TESTING AGENCY IN ACCORDANCE WITH THE TERMINOLOGY IN ACI 355.4.
- PERIODIC SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ALL ANCHORS 5. UNLESS NOTED OTHERWISE.
- THE INDEPENDENT TESTING AGENCY FIELD PERSONNEL WILL PROVIDE 6. CONTINUOUS SPECIAL INSPECTION FOR INSTALLATION OF ALL ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS AS PER THE REQUIREMENTS DEFINED IN THE POST-INSTALLED ADHESIVE AND MECHANICAL ANCHOR NOTES AND IN THE SPECIFICATIONS.
- MARKINGS ON EXPOSED PORTIONS OF ANCHORS BY THE MANUFACTURER DESIGNATE ANCHOR TYPE, MATERIAL GRADE, LENGTH, ETC. CUTTING OFF THESE MARKINGS PRIOR TO REVIEW FOR CONFORMANCE WITH THE STRUCTURAL DRAWINGS BY THE INDEPENDENT TESTING AGENCY SHALL RESULT IN REJECTION OF THE ANCHORS AND REPLACEMENT AT THE CONTRACTOR'S COST.
- ALL UNMARKED THREADED ROD SHALL BE REJECTED AND REPLACED AT 8. THE CONTRACTOR'S COST.
- QUALITY ASSURANCE REPORTS FROM THE INDEPENDENT TESTING AGENCY ARE TO BE SUBMITTED TO RJC AFTER EACH SITE VISIT.
- 10. A REPRESENTATIVE SAMPLE OF ANCHORS ARE TO BE TESTED FOR EACH TYPE AND SIZE OF ANCHOR SPECIFIED. ANCHORS WHICH FAIL THE LOAD TEST SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S COST
- 11. THE FOLLOWING TESTING BY THE INDEPENDENT TESTING AGENCY IS PAID FOR BY THE OWNER:
 - A. RANDOMLY SELECT 10% OF MECHANICAL ANCHORS AND 10% OF SCREW ANCHORS (2 MINIMUM PER CONNECTION) TO VERIFY INSTALLATION TORQUE MEETS MANUFACTURER'S INSTALLATION CRITERIA.
 - PROOF LOAD TEST 10% OF ADHESIVE ANCHORS OR AS INDICATED B IN THE DRAWINGS OR AS IDENTIFIED BY THE STRUCTURAL ENGINEER OF RECORD. PROOF LOAD TEST 100% OF ALL ADHESIVE ANCHORS INSTALLED INTO CONCRETE WITH TEMPERATURE BELOW 10 °C AT TIME OF INSTALLATION.
 - RANDOMLY SELECT 2% OF ADHESIVE ANCHORS (3 MINIMUM) FOR C. TESTING TO FAILURE. CONTRACTOR TO REPLACE ANCHORS AT CONTRACTOR'S COST.
 - PROOF LOAD TEST POST-INSTALLED REBAR AS INDICATED IN THE D. DRAWINGS OR IDENTIFIED BY THE STRUCTURAL ENGINEER OF RECORD.
- 12. THE FOLLOWING TESTING AND FIELD REVIEW BY THE INDEPENDENT TESTING AGENCY IS PAID FOR BY THE CONTRACTOR:
 - A. IF ANY MECHANICAL ANCHORS IN A CONNECTION FAILS TEST OF INSTALLATION TORQUE, VERIFY INSTALLATION TORQUE OF ALL ANCHORS IN THE SAME CONNECTION AND OTHER ANCHORS AS DIRECTED BY THE INDEPENDENT TESTING AGENCY OR ENGINEER OF RECORD.
 - IF ANY PROOF LOAD TEST FAILS, TEST 100% OF ANCHORS OF В SIMILAR TYPE AND INSTALLATION CONDITION AND OTHER ANCHORS AS DIRECTED BY THE INDEPENDENT TESTING AGENCY OR ENGINEER OF RECORD.
 - C. IF ANY ANCHORS ARE FOUND TO BE INSTALLED WITHOUT COMPLETE ADHESIVE OR ARE EMBEDDED LESS THAN 90% OF THE DEPTH SHOWN ON THE DRAWINGS, THEN PROOF LOAD TEST 100% OF THE ANCHORS.
- D. PROVIDE FULL TIME FIELD REVIEW OF ALL REPAIRS.
- 13. UNLESS NOTED OTHERWISE, ALL PROOF LOADING SHALL BE PERFORMED TO INDIVIDUAL ANCHORS WITH THE FOLLOWING TECHNIQUES:
 - ADHESIVE ANCHORS OR MECHANICAL ANCHORS INSTALLED IN CONCRETE: PERFORM PROOF LOADING AS CONFINED TENSION TESTS USING A CALIBRATED CENTERHOLE HYDRAULIC CYLINDER AND A RIGID STEEL THRU-HOLE REACTION PLATE BEARING ON THE CONCRETE IN CLOSE PROXIMITY ALL AROUND THE ANCHOR. WHERE PROOF TEST IS NOTED ON DRAWINGS AS TORQUE VALUE, PERFORM PROOF LOADING USING A CALIBRATED TORQUE WRENCH.
 - ADHESIVE OR MECHANICAL ANCHORS INSTALLED IN GROUTED OR В UNGROUTED MASONRY: PERFORM PROOF LOADING AS UNCONFINED TENSION TESTS USING A CALIBRATED CENTERHOLE HYDRAULIC CYLINDER AND REACTION AGAINST MASONRY LOCATED AWAY FROM THE MASONRY UNIT TESTED AND BEYOND ANY RESULTING FAILURE SURFACE. WHERE PROOF TEST IS NOTED ON DRAWINGS AS TORQUE VALUE, PERFORM PROOF LOADING USING A CALIBRATED TORQUE WRENCH.
 - SCREW ANCHORS INSTALLED IN CONCRETE OR MASONRY: С PERFORM PROOF LOADING USING A CALIBRATED TORQUE WRENCH.
- 14. TESTING AGENCY TO SUBMIT TRACEABLE CALIBRATION DATA FOR THE HYDRAULIC CYLINDER AND TORQUE WRENCH WITH THE TESTING REPORT. CALIBRATION DATA SHALL NOT BE OLDER THAN 12 MONTHS.
- 15. PROOF LOAD LEVEL SHALL BE AS INDICATED ON SCHEDULE DRAWINGS OR AS INDICATED ON THE PLANS AND DETAILS.
- 16. MAINTAIN THE PROOF LOAD FOR A MINIMUM OF 60 SECONDS.
- 17. MAXIMUM ANCHOR DISPLACEMENT AFTER THE SUSTAINED PROOF LOAD SHALL BE 0.5% OF THE EMBEDMENT DEPTH AND MAXIMUM DECREASE IN MEASURED LOAD SHALL BE 2% UNLESS NOTED OTHERWISE.

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Creative Thinking Practical Results

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Drawing Notes

- 1. All drawings, plans, models, designs, specifications and other documents prepared by Read Jones Christoffersen Ltd. ("RJC") and used in connection with this project are instruments of service for the work shown in them (the "Work") and as such are and remain the property of RJC whether the Work is executed or not, and RJC reserves the copyright in them and in the Work executed from them, and they shall not be used for any other work or project.
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- 3. Use of these drawings is limited to that identified in the Issued/Revision column. Do not construct from these drawings unless marked "Issued for Construction" by RJC in the Issued/Revision column, and then only for the parts noted The drawings shall not be used for "pricing" / "costing" or "tender" unless so indicated in the Issued/Revisions column "Pricing" or "Costing" drawings are not complete and any prices based on such drawings must allow for this.

3	2025-04-11	ISSUED FOR TENDER
2	2024-09-18	ISSUED FOR PERMIT
1	2023-01-31	ISSUED FOR 50% COSTING
No.	Date	Description
Issue	Record	

RJC Project Number TOR.130977.0001

Project Name **BLUFFER'S PARK EAST** WASHROOM

1 Brimley Road South, Scarborough, Toronto, ON

Sheet Title

GENERAL NOTES & TYPICAL DETAILS

Scale Project No. 21-029 Drawn By DP Checked By GJ

Print Date 2025-04-14 4:25:49 PM As indicated

Sheet Number **S011**



 A. BODE SHEATHING L25 mm PLYWOOD WITH H-CUPS AT UNSUPPORTED JOINTS. FLAT ROOF (SLOPE IS% MAXIMUM T55 mm TONGUE AND GROVE PLYWOOD) B. FLOOR SHEATHING IF 5 mm TONGUE AND GROVE PLYWOOD IF 5 mm BUTT JOINT PLYWOOD ON EXTERIOR SUBE AND SX 593, 155 mm BUTT JOINT PLYWOOD ON EXTERIOR SUBE AND SX 593, 155 mm PLYWOOD ON EXTERIOR SUBE TYP. 125 mm PLYWOOD ON EXTERNO TH THE SURFACE GRAIN AT RIGHT ANGLES TO THE JOISTS. STAGGER THE JOINTS PARALLEL TO THE JOISTS. DATUM AND AND AND AND AND AND AND AND AND AND		OOD FRAMING	- SHEATHING
 B. FLOOR SHEATHING IN Source of the concentration of the co	1.	A. <u>ROOF SHEATHING</u>	<u>SLOPED ROOF (SLOPE GREATER THAN 15%)</u> 12.5 mm PLYWOOD WITH H-CLIPS AT UNSUPPORTED JOINTS. <u>FLAT ROOF (SLOPE 15% MAXIMUM)</u> 15.5 mm TONGUE AND GROOVE PLYWOOD.
 EXTERIOR WALL SHEATHING 9.5 mm PLYWOOD ON EXTERIOR SIDE TYP. 12.5 mm PLYWOOD SHEATHING REALTHING IN BRICK VENEER. SEE ALSO ARCHITECTURAL FOR ADDITIONAL SHEATHING REQUIREMENTS. D. SHEAR WALL SHEATHING SHEAR WALL SCHEDULE FOR SHEATHING REQUIREMENTS AT SHEAR WALL LOCATIONS. LAY FLOOR AND ROOF SHEATHING WITH THE SURFACE GRAIN AT RIGHT ANGLES TO THE JOISTS. STAGEBER THE JOINTS PARALLEL TO THE JOISTS. THE JOINT SHARE THING WITH THE SURFACE GRAIN AT RIGHT ANGLES TO THE JOISTS. STAGEBER THE JOINTS PARALLEL TO THE JOISTS. THE JOINT ON SHEATHING ON LOAD BEARING WALLS OR SHEAR WALLS SHALL BE FASTENED DIRECTLY TO THE STUDS, WITHOUT THE USE OF RESILIENT METAL CHANNELS. WOOD DECKING TO BE [SELECT] GRADE [DOUGLAS FIR] KILN DRY PLANKS TO [19]% MAXIMUM MOISTURE CONTENT. 64 mm X 133 mm AND 89 mm X 133 mm WOOD DECKING SHALL BE PRE DRILLED WITH 6 mm Ø HOLES AT 780 mm OC FOR LATERAL SPIKING WITH DOUBLE TONGUE AND GROVE. DECKING LENGTHS TO ES SHARE BARY SWHICH SHANL SPANS SHORTER THAN 3000 mm, USE PLANKS SKCEEDING 3000 mm AND A MINIMUM OF 50% OF THE PLANKS EXCEEDING 5000 mm. FOR SINGLE SPANS SHORTER THAN 3000 mm, USE PLANKS OF SAME LENGTH AND SPANS. INSTALL PLANK DECKS TO CSA OBE CONTROLLED RANDOM PATTERN. EXCEPT AS NOTED. PROVIDE MINIMUM OF ONE BEARING SUPPORT FOR EACH PLANK (EXCEPT FOR CANTILEVERS OR SIMPLE SPANS WHICH SHALL EXTEND OVER TWO SUPPORTS AND THE CONTINUIOUS WHICH SHALL EXTEND OVER TWO SUPPORTS AND THE PLANKS EXCEEDING SUPPORT FOR EACH PLANK (EXCEPT THAN 3000 mm, USE PLANKS TO CETHER AND SPANS. MINIMIZE JOINTS IN MIDDLE THIRD OF ANY SPAN. INSTALL PLANK DECKS TO CSA OBE CONTROLLED RANDOM PATTERN. EXCEPT AS NOTED. PROVIDE MINIMUM OF ONE BEARING SUPPORT FOR EACH PLANK (EXCEPT THREE SUPPORTS). INSTALL SLOPING DECKS WITH TONGUES UP. THREE SUPPORTS IN ADD ADD AND SYAN. NALL ALL 64 mm AND 89 mm PLANKS TO SETHER LATERALLY WITH 8' SPIRAL		B. <u>FLOOR SHEATHING</u>	15.5 mm TONGUE AND GROOVE PLYWOOD IF NO CONCRETE TOPPING IS USED. (ANY JOINT WITHOUT A TONGUE AND GROOVE CONNECTION SHALL BE BLOCKED WITH A 38 X 89). 15.5 mm BUTT JOINT PLYWOOD IF 38 mm CONCRETE TOPPING IS USED.
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	 1. 2. 3. 4. 5. 6. 7. 8. 9. 	 OOD DECKING TO BE [SEL TO [19]% MAXIMUM MOISTUF 64 mm X 133 mm AND 89 mm DRILLED WITH 6 mm Ø HOLE DOUBLE TONGUE AND GROU DECKING LENGTHS TO BE 1 MINIMUM OF 90% OF THE PL 50% OF THE PLANKS EXCEE THAN 3000 mm, USE PLANKS INSTALL PLANK DECKS TO O EXCEPT AS NOTED. PROVIDE MINIMUM OF ONE I FOR CANTILEVERS OR SIMP SUPPORTS AND TWO SPAN THREE SUPPORTS). INSTALL STAGGER END JOINTS IN AE SEPARATE JOINTS IN SAME COURSES. NO END JOINTS I JOINTS IN MIDDLE THIRD OF NAIL ALL 64 mm AND 89 mm SPIRAL SPIKES THROUGH P CONNECT EACH 64 mm AND WITH ONE 5" NAIL, TOE-NAIL AS NOTED ON PLAN. PLANKS PARALLEL TO SPAN CONNECTED TO THE SUPPOR AT 300 mm O/C, EXCEPT AS 	LECTJ GRADE [DOUGLAS FIR] KILN DRY PLANKS RE CONTENT. X 133 mm WOOD DECKING SHALL BE PRE ES AT 760 mm O/C FOR LATERAL SPIKING WITH OVE. 800 mm TO 6000 mm OR LONGER WITH A ANKS EXCEEDING 3000 mm AND A MINIMUM OF DING 5000 mm. FOR SINGLE SPANS SHORTER S OF SAME LENGTH AND SPAN. CSA 086 CONTROLLED RANDOM PATTERN. BEARING SUPPORT FOR EACH PLANK (EXCEPT PLE SPANS WHICH SHALL EXTEND OVER TWO CONTINUOUS WHICH SHALL EXTEND OVER TWO CONTINUOUS WHICH SHALL EXTEND OVER L SLOPING DECKS WITH TONGUES UP. DJACENT PLANKS MINIMUM OF 500 mm AREA BY AT LEAST TWO INTERVENING IN FIRST HALF OF END SPANS. MINIMIZE F ANY SPAN. PLANKS TOGETHER LATERALLY WITH 8" RE DRILLED 6 mm HOLES AT 760 mm O/C. 0 89 mm PLANK TO SUPPORTING MEMBERS LED, AND ONE 6" NAIL, FACE-NAILED, EXCEPT N OF SUPPORTING MEMBERS TO BE DRTING MEMBERS WITH 6" NAILS FACE-NAILED NOTED ON PLAN.



TYPICAL DETAILS

Scarborough, Toronto, ON

GENERAL NOTES &

Scale Project No. 21-029 Drawn By DP Checked By GJ

Sheet Title

Print Date 2025-04-14 4:25:50 PM As indicated

Sheet Number **S012**



FOR CONTINUATION, SEE S199

		BOAR	D WALK - I	LOADING S	CHEDULE
LEGEND	AREA	LOAD TYPE	DESCRIPTION	LOAD (kPa)	REMARKS
XXXX		DL	FLOOR S.W.	4.8	200 mm CONCRETE SLAB
	CONCRETE	SDL		0.5	ALLOWANCE
	STRUCTURE	L	L	4.8	PEDESTRIAN
		DL	FLOOR S.W.	1.0	COMPOSITE DECKING
	BOARDWALK	SDL		0.5	ALLOWANCE
		LL		4.8	PEDESTRIAN



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	tel 416-977-5335
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2. These drawings are suitable for use as s base drawings for "s written permission co is obtained from RJC	"design drawings" only. They may not be hop drawings. Use of these drawings as hop drawings" is not permitted unless ontaining certain conditions and limitations C. The work "as constructed" may vary
from what is shown of 3. Use of these drawing Issued/Revision colu unless marked "Issu Issued/Revision colu The drawings shall n "tender" unless so in	on these drawings. gs is limited to that identified in the umn. Do not construct from these drawings ed for Construction" by RJC in the umn, and then only for the parts noted. tot be used for "pricing" / "costing" or dicated in the Issued/Revisions column
"tender" unless so in "Pricing" or "Costing prices based on suc	idicated in the Issued/Revisions column. " drawings are not complete and any h drawings must allow for this.
1 2025-04-11 IS No. Date D	SUED FOR TENDER
Project Name	RJC Project Number: TOR.130977.0001
BLUFFEF	R'S PARK EAST OM
1 Brimley Ro	ad South,
Sheet Title	VALK LOADING
PLAN	
Print Date 2025-04-	14 4:25:50 PM
Scale As indica Project No. 21-029 Drawn By DP	41e0
Checked By GJ	Revisio
S199	1
S199	1



		GROL	JND FLOO	R LOADII	N
LEGEND	AREA	LOAD TYPE	DESCRIPTION	LOAD (kPa)	
		DL	FLOOR S.W.	3.60	
	TYPICAL INTERIOR	201	FINISHES	0.20	
	SLAB	SDL	TOTAL	0.20	
		LL		4.80	-
		DL	FLOOR S.W.	3.60	
	TILED FLOOR	R SDL	FINISHES	0.80	•
			TOTAL	0.80	
		LL		4.80	
		DL	FLOOR S.W.	3.60	
	STORAGE ROOM AND GARAGE	SDL	FINISHES	0.00	
			TOTAL	0.00	
		LL		4.80	•
		DL	FLOOR S.W.	3.60	
	EXTERIOR SLAB	SDI	FINISHES	0.00	
			TOTAL	0.00	
		LL		12.0	-

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Drawing Notes	
 All drawings, plans, r documents prepared ("RJC") and used in d instruments of servic and as such are and Work is executed or them and in the Worl be used for any other 	nodels, designs, specifications and other by Read Jones Christoffersen Ltd. connection with this project are se for the work shown in them (the "Work") remain the property of RJC whether the not, and RJC reserves the copyright in k executed from them, and they shall not r work or project.
 These drawings are ' suitable for use as st base drawings for "st written permission co is obtained from RJC from what is shown or 	"design drawings" only. They may not be nop drawings. Use of these drawings as hop drawings" is not permitted unless ontaining certain conditions and limitations C. The work "as constructed" may vary on these drawings.
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4 2025-04-11 IS	SUED FOR TENDER
2 2024-09-18 IS	OMMENTS SUED FOR PERMIT
1 2023-01-31 IS No. Date Do Issue Record	SUED FOR 50% COSTING escription
	RJC Project Number: TOR.130977.0001
BLUFFER WASHRO	R'S PARK EAST OM
1 Brimley Roa Scarborough	ad South, , Toronto, ON
Sheet Title	
GROUND FOUNDA	FLOOR / TION PLAN
Print Date 2025-04-1	4 4:25:50 PM
Scale As indica Project No. 21-029	ited
Drawn By DP Checked By GJ	
Sheet Number	Revision



GROUND FLOOR / FOUNDATION PLAN (EAST BLDG) 1:50 NOTE:

1. REFER S301 FOR FOUNDATION WALL SCHEDULE, FOUNDATION SCHEDULES,

	SLAB ON GRADE NOTES
	SOG 1 TYP. U.N.O.
1. 2.	150 THICK SLAB ON GRADE. REINFORCE WITH 15M@300 E.W. AT 60mm FROM TOP.
3. 4.	CONCRETE EXPOSURE = F2 REINFORCE STEPS/FOLDS PER GENERAL NOTES.
	SOG 2
1. 2.	150 THICK SLAB ON GRADE. REINFORCE WITH 15M@300 E.W. AT 60mm FROM TOP.
3. 4. 5.	CONCRETE EXPOSURE = C1 10L/m ³ D.C.I. TYPE 'S' CORROSION INHIBITOR. REINFORCE STEPS/FOLDS PER GENERAL NOTES.
	APRON SLAB
1. 2. 3. 4.	150 THICK SLAB ON GRADE. SEE SECTIONS FOR REINFORCEMENT. CONCRETE EXPOSURE = C1 10L/m ³ D.C.I. TYPE 'S' CORROSION INHIBITOR
REF BAS	ER TO GEOTECHNICAL REPORT FOR SUB- E PREPARATION REQUIREMENTS.

		MASONRY
MARK	WALL THICKNESS	VERTICAL REINFORCING
MW1	190	15M@600

NOTES:

- PROVIDE STARTED DOWELS TO MATCH WALL REINFORCEMENT, TYP. CONSIDER CONTINUOUS 400mm BOND BEAM R/W 1-15M T&B AT TOP OF EACH MW# (BELOW BEAM). CONSIDER CONTINUOUS 200mm BOND BEAM R/W 1-15M AT THE BASE OF EACH MW#.
- ALL DOWELS TO HAVE TENSION SPLICE (T.S.) TYPICAL.

CONCRETE PIER DETAILS AND MASONRY PIER SCHEDULES.

WALL SCHEDULE

HORIZONTAL REINFORCING E.H.D. M REINFORCING EVERY 2ND COURSE

NOTES FULLY GROUTED AND REINFORCED TYP

ADD 3-15M EACH END TYP

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		U

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Drawing Notes



- suitable for use as shop drawings. Use of these drawings as base drawings for "shop drawings" is not permitted unless written permission containing certain conditions and limitations is obtained from RJC. The work "as constructed" may vary from what is shown on these drawings.
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3	2025-04-11	ISSUED FOR TENDER
2	2024-09-18	ISSUED FOR PERMIT
1	2023-01-31	ISSUED FOR 50% COSTING
No.	Date	Description
Issue	Record	



RJC Project Number TOR.130977.0001





Project Name **BLUFFER'S PARK EAST** WASHROOM

1 Brimley Road South, Scarborough, Toronto, ON

Sheet Title

GROUND FLOOR / FOUNDATION PLAN (EAST BLDG)

Scale Project No. 21-029 Drawn By DP Checked By GJ

Print Date 2025-04-14 4:25:51 PM As indicated

Sheet Number S200A

3



GROUND FLOOR / FOUNDATION PLAN (WEST BLDG)

NOTE:

- REFER TO S200A FOR MASONRY WALL SCHEDULE.
 REFER TO S200A FOR SLAB ON GRADE NOTES.
- 3. REFER S301 FOR FOUNDATION WALL SCHEDULE, FOUNDATION SCHEDULES, CONCRETE PIER DETAILS AND MASONRY PIER SCHEDULES.



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Drawing Notes





GROUND FLOOR / FOUNDATION PLAN (EAST BLDG) - PRELIMINARY GEOPIER LAYOUT 1:50

NOTE:

- 1. REFER TO GEOSOLV DESIGN DRAWINGS FOR GEOPIER AND SUB-BASE MINIMUM REQUIREMENTS.
- 2. THIS PROPOSED GEOPIER LAYOUT IS TO BE USED ONLY FOR COSTING PURPOSES.
- 3. GROUND IMPROVEMENT FOR SLAB ON GRADE TO BE MINIMUM 20kPa SLS AND 30kPa ULS.
- 4. GROUND IMPROVEMENT FOR STRIP AND SPREAD FOOTINGS TO BE MINIMUM 150kPa SLS AND 225 kPa ULS.

LEGEND	DESCRIPTION
	762mm DIAMETER GEOPIER (NOT BY RJC)

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Project Name **BLUFFER'S PARK EAST** WASHROOM

1 Brimley Road South, Scarborough, Toronto, ON

Sheet Title

GROUND FLOOR / FOUNDATION PLAN (EAST BLDG) -**PRELIMINARY GEOPIER** LAYOUT

Scale Project No. 21-029 Drawn By DP Checked By GJ

Print Date 2025-04-14 4:25:51 PM 1:50

Sheet Number S200C



GROUND FLOOR / FOUNDATION PLAN (WEST BLDG) - PRELIMINARY GEOPIER LAYOUT

NOTE:

- 1. REFER TO GEOSOLV DESIGN DRAWINGS FOR GEOPIER AND SUB-BASE MINIMUM REQUIREMENTS.
- 2. THIS PROPOSED GEOPIER LAYOUT IS TO BE USED ONLY FOR COSTING PURPOSES.
- GROUND IMPROVEMENT FOR SLAB ON GRADE TO BE MINIMUM 40kPa SLS 3. AND 55kPa ULS.
- 4. GROUND IMPROVEMENT FOR STRIP AND SPREAD FOOTINGS TO BE MINIMUM 150kPa SLS AND 225 kPa ULS.

LEGEND	DESCRIPTION
	762mm DIAMETER GEOPIER (NOT BY RJC)



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Drawing Notes







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MINIMUM 25mm GAP / EXPANSION JOINT
 BETWEEN DECK AND
 CONCRETE PAVING ON GRADE

GROUND FLOOR / FOUNDATION PART PLAN (BOARD WALK) 1:50 NOTES:

1. REFER TO DWG S200E FOR NOTES.



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Drawing Notes



1. All drawings, plans, models, designs, specifications and other







RJC Project Number TOR.130977.0001









Project Name **BLUFFER'S PARK EAST**

WASHROOM

1 Brimley Road South, Scarborough, Toronto, ON

Sheet Title

GROUND FLOOR / FOUNDATION PART PLAN (BOARDWALK)

Scale Project No. 21-029 Drawn By DP Checked By GJ

Print Date 2025-04-14 4:25:52 PM 1:50

Sheet Number S200F





ROOF TOP UNIT SCHEDULE					
MARK	WEIGHT / LOAD	HEIGHT (mm)	WIDTH(mm) X LENGTH(mm)	COMMENTS	
RTU-1	86kg / 0.85kN	1050	370 X 950	SEE NOTE 1	
NOTE:					
1. RTU-1 IS	S SUPPORTED ON A STE	EL FRAMING ASSEMB	LY WITH FOUR LEGS. THE ROOF TOP UN CFD 1067mm (42")	NIT IS RAISED 457mm (18")	

			ROOF LOA	DING SC	
LEGEND	AREA	LOAD TYPE			COMMENTS
		DL	ROOF S.W.	0.40	T & G WOOD ROOF DECKING
			ROOFING	0.30	ROOFING TPO / INSULATION
			M&E	0.40	MISC PIPING AND SERVICES
	INSULATED	SDL	PV PANELS	1.00	PV PANEL SELF-WEIGHT (REFER TO ARCH/MECH DWGS FOR LOCATION)
			TOTAL	1.70	
		LL		1.00	ROOF TYPICAL
		SNOW		1.36	SEE ACCUMULATED SNOW LOADING PLAN & SCHEDULE
		DL	ROOF S.W.	0.40	T & G WOOD ROOF DECKING
	INSULATED WITH SUSPENDED CEILING	SDL	ROOFING	0.30	ROOFING TPO / INSULATION
			FINISHES	0.25	SUSPENDED CEILING
			PV PANELS	1.00	PV PANEL SELF-WEIGHT (REFER TO ARCH/MECH DWGS FOR LOCATION)
			M&E	0.40	MISC PIPING AND SERVICES
			TOTAL	1.95	
		LL		1.00	ROOF TYPICAL
		SNOW		1.36	SEE ACCUMULATED SNOW LOADING PLAN & SCHEDULE
		DL	ROOF S.W.	0.40	T & G WOOD ROOF DECKING
			ROOFING	0.30	ROOFING TPO
		SDL	M&E	0.40	MISC PIPING AND SERVICES
	UNINGULATED		PV PANELS	1.00	PV PANEL SELFT-WEIGHT (REFER TO ARCH/MECH DWGS FOR LOCATION)
			TOTAL	1.70	
		LL		1.00	ROOF TYPICAL
		SNOW		1.36	SEE ACCUMULATED SNOW LOADING PLAN & SCHEDULE

NOTES:

DL VALUES ONLY INCLUDE THE FLOOR SELF-WEIGHT WITH NO ALLOWANCE FOR THE STRUCTURE ITSELF.
 REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL LOADING FROM UNITS, ETC.,

SNOW ACCUMULATION DIAGRAM

	S
MARK	
SPU-1	

BASE SNOW LOAD =1.36kPa ASL LENGTH

SNOW ACCUMULATION SCHEDULE ASL (kPa)ASL LENGTH (mm)COMMENTS2.413350TYPICAL AT ROOF PARAPET

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	Pra	actical Results
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	100 L North	Jniversity Avenue, Tower, Suite 400
	Toror tel	nto, ON M5J 1V6 Canada
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be used for	any other work or	project.
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ROOF FRAMING PLAN (EAST BLDG)

<u>NOTE:</u>

ML1 INIDCATES 400 DEEP MASONRY BLOCK LINTEL R/W 1-15M BOT AND 1-15M TOP BARS.
 ML2 INDICATES 400 DEEP MASONRY BLOCK LINTEL R/W 1-15M BOT AND 1-15M TOP BARS + STEEL L127x89x7.9 LLV (HDG) FOR BRICK VENEER.

STRUCTURAL FRAMING SCHEDULE							
MARK	WIDTH	DEPTH	COMMENTS				
RB1	76	494	GLULAM SPRUCE-PINE 20f-E				
RB2	175	494	GLULAM SPRUCE-PINE 20f-E (ALT 175x228 GLULAM SPRUCE-PINE 20f-E)				
RB3	215	494	GLULAM SPRUCE-PINE 20f-E				
RB4	365	494	GLULAM SPRUCE-PINE 20f-E				
RJ1	175	494	ROOF JOIST - GLULAM SPRUCE-PINE 20f-E				

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1	2023-01-31	ISSUED FOR 50% COSTING
No.	Date	Description
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		RJC Project Number:











TOR.130977.0001

Project Name **BLUFFER'S PARK EAST** WASHROOM

1 Brimley Road South, Scarborough, Toronto, ON

Sheet Title

ROOF FRAMING PLAN (EAST BLDG)

Scale Project No. 21-029 Drawn By DP Checked By GJ

Print Date 2025-04-14 4:25:53 PM 1:50

Sheet Number S201A



ROOF FRAMING PLAN (WEST BLDG)

NOTE:

- 1. ML1 INIDCATES 400 DEEP MASONRY BLOCK LINTEL R/W 1-15M BOT AND 1-15M TOP BARS.
- 2. ML2 INDICATES 400 DEEP MASONRY BLOCK LINTEL R/W 1-15M BOT AND 1-15M TOP BARS + STEEL L127x89x7.9 LLV (HDG) FOR BRICK VENEER.

STRUCTURAL FRAMING SCHEDULE				
MARK	WIDTH	DEPTH	COMMENTS	
RB1	76	494	GLULAM SPRUCE-PINE 20f-E	
RB2	175	494	GLULAM SPRUCE-PINE 20f-E (ALT 175x228 GLULAM SPRUCE-PINE 20f-E)	
RB3	215	494	GLULAM SPRUCE-PINE 20f-E	
RB4	365	494	GLULAM SPRUCE-PINE 20f-E	
RJ1	175	494	ROOF JOIST - GLULAM SPRUCE-PINE 20f-E	



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BLUFFER'S PARK EAST WASHROOM

1 Brimley Road South, Scarborough, Toronto, ON

Sheet Title

ROOF FRAMING PLAN (WEST BLDG)

Scale Project No. 21-029 Drawn By DP Checked By GJ

Print Date 2025-04-14 4:25:54 PM 1:50

Sheet Number S201B

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COLUMN FOUNDATION SCHEDULE							
	BOTTOM REIN		INFORCEMENT	TOP REINFC	RCEMENT		
MARK	SIZE	BLL	BUL	TLL	TUL	COMMENTS	
F1	1600x1600x300 DP	7-15M	7-15M				
F2	1400x1400x300 DP	6-15M	6-15M				
F3	1000x1000x300 DP	5-15M	5-15M				

FOUNDATION SCHEDULE - WALL						
MARK	WIDTH	DEPTH	REINFORCING	COMMENTS		
WF1	850	300	4-15M CONT			
WF2	700	300	3-15M CONT			
WF3	400	300	3-15M CONT			

FOUNDATION WALL SCHEDULE								
MARK	WALL THICKNESS	REINFORCEMENT	COMMENTS					
FW1	385	15M@300 VEF + 10M@300 HEF						
FW2	295	15M@350 VEF + 10M@350 HEF						
FW3	200	15M@400 VEF + 10M@400 HEF						
FW4	400	15M@350 VEF + 10M@350 HEF						
FW5	580	15M@300 VEF + 10M@300 HEF						
FW6	200	15M@300 CENTER VERT + 10M@250 CENTER HORZ						
NOTE:	NOTE:							

1. TOP OF FOUNDATION WALL TO BE MIN 200mm ABOVE SLAB ON GRADE ELEVATION (TYP, UNO).

TYP A

PIER SCHEDULE						
MARK	SIZE	REINFORCEMENT	DETAIL			
P1	650x450	10-20M VERT + 10M@250 TIES (ADD 3-10M@75 TIES AT TOP)				
Ρ2	400x400	8-20M VERT + 10M@250 TIES (ADD 3-10M@75 TIES AT TOP)				

MASONRY PIER SCHEDULE					
MARK	SIZE	REINFORCEMENT & DETAIL			
MP1	MIN 1000x240	4-15M VERT			
MP2	L-SHAPE (SIZE VARIES)	8-15M VERT			
MP3	MIN 600x190	3-15M VERT			
MP4	MIN 380x380	4-15M VERT - BLOK LOK BLT-11Z @ EVERY OTHER COURSE (ALTERNATE SIDE) 			
TYP AT END		OPEN 2-15M VERT EACH END (TYP) SPACING)			
YP AT WALL TERSECTION		HORIZ JOINT REINF TYP ADDITIONAL 2-15M VERT			

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I JU	Practical Results
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	100 University Avenue, North Tower, Suite 400 Toronto, ON M5J 1V6 Canada tel 416-977-5335
Drawing Notes	models, designs, specifications and other
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ls ur Is Ti "te "F	sued/Revision of hless marked "Is sued/Revision of he drawings sha ender" unless so Pricing" or "Costi- rices based on -	column. Do not construct from these drawings seved for Construction" by RJC in the column, and then only for the parts noted. Il not be used for "pricing" / "costing" or o indicated in the Issued/Revisions column. ing" drawings are not complete and any such drawings must allow for this
ba wi is fro	ase drawings for ritten permissior obtained from F om what is show se of these draw	r "shop drawings" is not permitted unless n containing certain conditions and limitations RJC. The work "as constructed" may vary wn on these drawings.
W th be 2. Th si	/ork is executed em and in the W e used for any o hese drawings a uitable for use a	Vork executed from them, and they shall not ther work or project. are "design drawings" only. They may not be s shop drawings. Use of these drawings as
Draw I. Al do ("I in	ring Notes Il drawings, plan bouments prepa RJC") and used struments of set and as such are c	is, models, designs, specifications and other red by Read Jones Christoffersen Ltd. in connection with this project are rvice for the work shown in them (the "Work") and remain the property of R IC whether the
		North Tower, Suite 400 Toronto, ON M5J 1V6 Canada tel 416-977-5335
		Read Jones Christoffersen Ltd. Engineers rjc.ca
	rjc	Creative Thinking Practical Results



L













8-15M VERT AND 10M@300 TIES (MINIMUM 3 TOP TIES @75 O/C)



1. ALL REINFORCEMENT TO BE HOT DIP GALVANIZED



1.	SOIL B BEARIN GEOTE
2.	CONCF CON EXP
3.	SEE GE
4.	REFER WOOD

















Toronto, ON M5J 1V6 Canada tel 416-977-5335 instruments of service for the work shown in them (the "Work") and as such are and remain the property of RJC whether the

- 2. These drawings are "design drawings" only. They may not be suitable for use as shop drawings. Use of these drawings as base drawings for "shop drawings" is not permitted unless written permission containing certain conditions and limitations is obtained from RJC. The work "as constructed" may vary
- Use of these drawings is limited to that identified in the Issued/Revision column. Do not construct from these drawings unless marked "Issued for Construction" by RJC in the Issued/Revision column, and then only for the parts noted. The drawings shall not be used for "pricing" / "costing" or "tender" unless so indicated in the Issued/Revisions column. "Pricing" or "Costing" drawings are not complete and any prices based on such drawings must allow for this.

3 2025-04-11 ISSUED FOR TENDER 2 2024-09-18 ISSUED FOR PERMIT 1 2023-01-31 ISSUED FOR 50% COSTING

RJC Project Number:

TOR.130977.0001

BLUFFER'S PARK EAST

SECTIONS & DETAILS

GE	NERAL NOTES
1.	ALL WORK SHALL BE IN FULL ACCORD NATIONAL BUILDING CODE (NBC); THE HEALTH ACT AMERICAN SOCIETY OF H AMERICAN (SMACNA); SOCIETY OF ME SOCIETY FOR TESTING AND MATERIAL BE CONSTRUED TO PERMIT WORK NO
2.	THE CONSTRUCTION DOCUMENTS FO TEAM DOES NOT RELIEVE THE CONTR BUILDING SYSTEMS. THE PLANS AND S OF SYSTEMS. THE EXACT LOCATION O SECTIONS AND DETAILS PROVIDED AF RESPONSIBLE FOR COORDINATING W
3.	COORDINATE ALL WORK WITH THE AR STRUCTURAL MEMBERS AND WORK O DISCREPANCIES, DEFICIENCIES, OR C PROCEEDING WITH ANY AFFECTED W
4.	ALL DUCTWORK AND PIPE DIMENSION
5.	CONTRACTOR SHALL FURNISH AND IN OPERATIONAL SYSTEMS.
6.	ADEQUATE SERVICE / MAINTENANCE (EQUIPMENT MANUFACTURER'S RECO REQUIRED FOR A COMPLETE WORKIN
7.	PROVIDE AND COORDINATE WITH THE DEVICES. MINIMIZE NUMBER & LOCATI BE DEVELOPED TO MINIMIZE ACCESS
8.	ALL DUCTS, PIPES AND EQUIPMENT S
9.	SEAL AROUND ALL PIPES AND DUCTS
10.	ALL SUPPORTS, SPACE ARRANGEMEN MANUFACTURER. THE CONTRACTOR
11.	ALL EQUIPMENT, DUCTWORK, PIPING, SHALL BE WEATHERPROOF.
12.	WHERE PIPES AND DUCTS PENETRAT PENETRATIONS, INCLUDING FLOORS.
<u>HVAC</u>	GENERAL NOTES:
1.	MANUAL AIR BALANCING DAMPERS SH
2.	MAXIMUM ALLOWABLE LENGTH OF FLI
3.	DUCTWORK SHALL BE INSULATED OR SPECIFICATIONS.
4.	DUCT AND PLENUM SIZES INDICATED SHALL BE ADJUSTED TO PROVIDE THE
5.	MANUAL DAMPERS SHALL BE PROVIDE
6.	SLOPE ALL RUNOUTS TO EQUIPMENT
7.	TEMPERATURE SENSORS TO BE INST
PLUM	IBING GENERAL NOTES:
1.	REFER TO ARCHITECTURAL DRAWING
2.	ROUTING OF WATER PIPING SHALL CL
3.	ALL SOIL & WASTE AND STORM LEADE
4	PRIOR TO FABRICATION OR INSTALLA
	REQUIREMENTS SHALL BE COORDINA
5.	ALL EQUIPMENT, FIXTURES, ETC. SHA
5. 6.	ALL EQUIPMENT, FIXTURES, ETC. SHA THE CONTRACTOR SHALL FURNISH AL EQUIPMENT, AND ACCESSORIES INST. OWNER'S REPRESENTATIVE AND ALL
5. 6. 7.	ALL EQUIPMENT, FIXTURES, ETC. SHA THE CONTRACTOR SHALL FURNISH AL EQUIPMENT, AND ACCESSORIES INST OWNER'S REPRESENTATIVE AND ALL ALL FIXTURES, FLOOR DRAINS, FLOOF SHALL BE ACCESSIBLE AND PROVIDED

MECHANICAL LEGEND ACCORDANCE WITH THE FOLLOWING CODES, REGULATIONS AND STANDARDS: ONTARIO BUILDING CODE; ONTARIO FIRE CODE; THE BC); THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA); CANADIAN STANDARDS ASSOCIATION (CSA); OCCUPATIONAL SAFETY AND TY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS (ASHRAE); AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI); Y OF MECHANICAL ENGINEERS (ASME); SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION AMERICAN ATERIALS (ASTM); AND OTHER APPLICABLE LAWS, CODES OR REGULATIONS. NOTHING IN THESE PERFORMANCE SPECIFICATIONS SHALL ORK NOT CONFORMING TO THESE CODES, REGULATIONS AND STANDARDS. INTS FOR THIS PROJECT WERE PREPARED BY THE DESIGN TEAM USING 3-D MODELING SOFTWARE. USING THIS SOFTWARE BY THE DESIGN CONTRACTOR FROM PERFORMING THE NECESSARY COORDINATION TO PROVIDE COMPLETE, CODE COMPLIANT AND OPERATIONAL NS AND SECTIONS PROVIDED ARE NOT COMPLETE AND ARE TO BE CONSIDERED DIAGRAMMATIC ONLY TO SHOW GENERAL ARRANGEMENT ATION OF THE PIPING, DUCTWORK, ELECTRICAL AND SUPPORT COMPONENTS ARE TO BE DETERMINED IN THE FIELD. ALL BUILDING IDED ARE FOR INFORMATION ONLY AND DO NOT RELIEVE THE CONTRACTOR FROM PERFORMING FINAL COORDINATION. CONTRACTOR IS TING WITH ALL OTHER TRADES.

THE ARCHITECTURAL DRAWINGS AND DRAWINGS OF OTHER TRADES. INSTALL ALL WORK TO CLEAR N ARCHITECTURAL WORK, WORK OF OTHER TRADES. NO ITEM SUCH AS PIPE, DUCT, ETC., SHALL BE IN CONTACT WITH ANY EQUIPMENT. ANY ERRORS, OMISSIONS, ES, OR CONFLICTS SHALL BE BROUGHT TO THE OF THE GENERAL CONTRACTOR, THE ARCHITECT AND THE ENGINEER PRIOR TO CTED WORK.

IENSIONS ARE SHOWN IN MILLIMETRES.

AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOUR NECESSARY TO ENSURE THE INSTALLATION OF COMPLETE AND FULLY

NANCE CLEARANCE AROUND EQUIPMENT SHALL BE PROVIDED AND EQUIPMENT INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE S RECOMMENDATIONS AND INSALLATION CRITERIA. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES WORKING INSTALLATION.

ITH THE ARCHITECT THE INSTALLATION OF ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND INSPECTION OF ALL EQUIPMENT AND LOCATION OF ACCESS PANELS BY POSITIONING PANELS TO ALLOW ACCESS TO MULTIPLE DEVICES. MECHANICAL LAYOUT SHALL ALSO CCESS PANELS.

MENT SHALL BE CONCEALED ABOVE CEILING, UNLESS OTHERWISE NOTED.

DUCTS PENETRATING FIRE SEPARATIONS. ASSEMBLY SHALL BE APPOVED BY THE BUILDING INSPECTOR.

NGEMENTS, EQUIPMENT FOOTPRINTS, AND EQUIPMENT PADS ARE BASED ON PRELIMINARY INFORMATION FROM THE BASIS OF DESIGN ACTOR SHALL BE RESPONSIBLE FOR CHECKING DATA FROM SUBMITTED SHOP DRAWINGS AND SHALL MAKE MODIFICATIONS REQUIRED. PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED EXTERIOR OF THE BUILDING OR OTHERWISE EXPOSED TO WEATHER ELEMENTS

NETRATE WALL, SEAL OPENINGS TO PREVENT AIR TRANSFER BETWEEN SPACES. USE FIRE RATED SEALANTS ON ALL FIRE SEPARATION

PERS SHALL BE PROVIDED IN ALL DUCT BRANCHES AND IN ALL BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS.

TH OF FLEXIBLE DUCTWORK IS 1.5M (5'-0").

TED OR LINED PER SPECIFICATIONS AND/OR AS NOTED ON DRAWINGS. ALL DUCT JOINTS AND SEAMS SHALL BE SEALED PER

CATED ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS. WHERE DUCTWORK AND PLENUMS ARE INTERNALLY LINED, THEIR SIZES IDE THE INSIDE CLEAR DIMENSIONS INDICATED ON THE DRAWINGS.

PROVIDED IN ALL DUCT BRANCHES AND IN ALL BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS.

PMENT AND RISERS, UP IN THE DIRECTION OF FLOW.

BE INSTALLED AT 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS NOTED OTHERWISE.

RAWINGS FOR EXACT LOCATIONS AND MOUNTING ELEVATIONS FOR PLUMBING FIXTURES.

HALL CLEAR SENSITIVE COMPUTER OR ELECTRICAL EQUIPMENT.

I LEADER STACKS SHALL BE COMPLETE WITH CLEANOUT AT BOTTOM AND BE ACCESSIBLE.

STALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. EXACT ROUGH-IN LOCATIONS AND ORDINATED IN FIELD.

TC. SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

RNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY AND PERFORM ALL REQUIRED TESTING OF ALL PIPING, FIXTURES, ES INSTALLED. ALL SUCH PLUMBING INSTALLATIONS SHALL BE TESTED, REPAIRED, AND ADJUSTED TO THE SATISFACTION OF THE ND ALL GOVERNING AUTHORITIES.

S, FLOOR SINKS, ETC. SHALL BE TRAPPED AND VENTED AND TRAP PRIMERS SHALL BE PROVIDED AS REQUIRED. ALL TRAP PRIMERS ROVIDED WITH A 18"X18" ACCESS PANEL (MINIMUM).

IZES 100MM (4") DIAMETER AND LARGER TO BE SLOPED AT 1%. PIPE SIZES UNDER 100MM (4") IN DIAMETER TO BE SLOPED AT 2% UNLESS UTS. ALL PIPE SIZES ARE NOTED ON THE LAYOUTS.

9. PROVIDE VENTING FOR ALL PLUMBING FIXURES. SIZING AND TERMINATION TO COMPLY WITH OBC.

GENERAL DEMOLITION NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION.

MECHANICAL DRAWING LIST				
Sheet Number	Sheet Name			
M001	MECHANICAL LEGEND, DRAWING LIST, GENERAL NOTES			
M100	MECHANICAL SITE PLAN			
M101	MECHANICAL DEMOLITION PLAN			
M200	FOUNDATION PLAN			
M201	GROUND FLOOR PLAN - HVAC			
M202	GROUND FLOOR PLAN - PLUMBING			
M203	ROOF PLAN - HVAC			
M204	ROOF PLAN - PLUMBING			
M301	REFRIGERANT SCHEMATIC			
M501	MECHANICAL SCHEDULES			
M601	MECHANICAL SPECIFICATIONS			

	LIST O
AFF	ABOVE FINISH
C/W	COMPLETE W
RWL F/A T/A	FROM ABOVE
F/B, T/B	FROM BELOW
NTS	NOT TO SCAL
O/A	
E/A	EXHAUST AIR
S/A	SUPPLY AIR
METER	
WATER METER	
GAS METER	
	LIS
SANITARY DRAIN	
STORM DRAIN	
VENT PIPE	
DOMESTIC COLD WATER	
DOMESTIC HOT WATER	
DOMESTIC HOT WATER REC	IRC —
HEAT TRACED PIPING	
CONDENSATE	
PIPE EI BOW RISER / DROP	
STACK UP/ DOWN	
SHUT OFF VALVE	
2-WAY CONTROL VALVE	
3-WAY CONTROL VALVE	
CHECK VALVE	
UNION OR FLANGE	
STRAINER -Y OR BASKET	
AUTOMATIC AIR VENT	
DOUBLE CHECK VALVE ASS	EMBLY
PRESSURE GAUGE	
CAP OR PLUG	
	/
ͶͶϤ;ͼ;	Ĩ
ROUND DUCT RISER	E
ROUND DUCT DROP	E
	<u> </u>
IU UK FRUM ABUVE	/

S/A OR O/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM ABOVE R/A OR E/A DUCT TO OR FROM BELOW BALANCING DAMPER MOTORIZED DAMPER (MODULATING) BACK DRAFT DAMPER TURNING VANES AIR OUTLET OR INLET TAG

EQUIPMENT TAG

F ABBREVIATIO	ONS AND CONTROL	_S
HED FLOOR	T.O.D.	TOP OF DUCT
	T.O.P.	
	U.O.D.	
V, TO BELOW	U/S	
E	DN	DOWN
	FRR	FIRE RESISTANCE RATED
,	U.N.O.	UNLESS NOTED OTHERWISE
κ.	CTE	CONNECT TO EXISTING
	DIGITAL SENSOR	?
W	LOCAL CONTROLS	?
G	CARBON MONOXIDE	СО
	CARBON DIOXIDE	CO2
	SMOKE DETECTOR	SD _
	I EMPERATURE	Т
	COMBUSTIBLE GAS	CG
ST OF SYMBOLS	S AND SERVICES	
SAN	CLEAN OUT - ABOVE GRADE	
STW	CLEAN OUT - AT/BELOW GR/	ADE OCO
- - · · · - - -		
	FLOUK/ KOOF/ HUB/ AREA D	
	PLUMBING FIXTURE TAG	?
	HOSE BIBB	-11
	5 75 4 5	HB-
COND	P-1KAP	هـ _
	VENT UP	O'S
	VENT THROUGH ROOF	o'lte
		- \\
	FIRE EXTINGUISHER	M
	P & T RELIEF VALVE	Ъ
	BALANCING VALVE	k
	GLOBE VALVE	[# (]
⊠	SUPERVISED VALVF	×
		I
	PRESSURE REDUCING VALV	
	FLEXIBLE CONNECTION	
	PIPE ANCHOR	——————————————————————————————————————
	PIPE GUIDE	
↓ AAV	PUMP)X
		FLOWRPBA
Ť	ASSEMBLY	
		E
	THERMOMETER	T
/		
;	STANDARD BRANCH	ŢŢ
	SINGLE LINE BRANCH	ب ،
		r+1
	KETUKN GRILLE	
\square	EXHAUST GRILLE	
	SUPPLY OUTLET	◄ ₩
	RETURN OR EXHAUST INLET	
	DOOR - UNDERCUT	-N U/C
BD		^Ⅲ DG
		►
7	FIRE DAMPER - HORIZONTAL	- •
	SMOKE DAMPER - VERTICAL	
B.D.D.	SMOKE DAMPER - HORIZON	TAL 🔶
- SIZE		
- CAPACITY		
-		
—		

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+		
4	2025-04-11	ISSUED FOR TENDER
3	2024-09-18	ISSUED FOR BUILDING PERMIT
2	2024-08-16	ISSUED FOR 100% COSTING
1	2023-01-31	ISSUED FOR 50% CD
No. [Date	Description



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South

Scarborough, Toronto, ON

Drawing Title

MECHANICAL LEGEND, DRAWING LIST, GENERAL NOTES

Print Date	2025-04-11
Scale	NONE
Project No.	0010052.000
Drawn by	MD
Checked by	SF



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2024-09-18	ISSUED FOR BUILDING PERMIT
2024-08-16	ISSUED FOR 100% COSTING
2023-01-31	ISSUED FOR 50% CD
Date	Description
Issue Record	
l	2024-08-16 2023-01-31 Date ecord



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

MECHANICAL SITE PLAN

 Print Date
 2025-04-11

 Scale
 1:100

 Project No.
 0010052.000

 Drawn by
 MD

 Checked by
 SF

M100



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1	2023-01-31	ISSUED FOR 50% CD
No.	Date	Description
lssue	Issue Record	



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

MECHANICAL DEMOLITION PLAN

Print Date 2025-04-11 Scale Drawn by MD Checked by SF

1:100 Project No. 0010052.000

M101



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1	2023-01-31	ISSUED FOR 50% CD	
No.	Date	Description	
Issue I	Issue Record		



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South

Scarborough, Toronto, ON

Drawing Title

FOUNDATION PLAN

Print Date 2025-04-11 1.20 Scale Project No. 0010052.00 Drawn by MD Checked by SF





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1	2023-01-31	ISSUED FOR 50% CD	
No.	Date	Description	
Issue	Issue Record		



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

GROUND FLOOR PLAN - HVAC

Print Date	2025-04-11
Scale	1:50
Project No.	0010052.000
Drawn by	MD
Checked by	SF





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1	2023-01-31	ISSUED FOR 50% CD
No.	Date	Description
Issue	ssue Record	



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

GROUND FLOOR PLAN -PLUMBING

Print Date2025-04-11Scale1:50Project No.0010052.000Drawn byMDChecked bySF





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1	2023-01-31	ISSUED FOR 50% CD
No.	Date	Description
Issue Record		



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South

Scarborough, Toronto, ON

Drawing Title

ROOF PLAN - HVAC

Print Date 2025-04-11 Scale 1:50 Project No. 0010052.000 Drawn by MD Checked by SF




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No.	Date	Description
Issue I	Record	



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

ROOF PLAN - PLUMBING

Print Date 2025-04-11 1:50 Scale Project No. 0010052.000 Drawn by MD Checked by SF









ENERGY	RECOVERY VENT	ILATOR SCHEDULE				
TAG MANUFACTURER MODEL LOCATION / CONFIGURATION AREA SERVED RECOVERY TYPE AIR FLOW (CFM) FAN (CFM) MOTOR (CFM) AIR FLOW (CFM) FAN (CFM) Motor (CFM) FAN (CFM) Motor (CFM) SENS. (H) EFFECTIVENESS (H) OA DB (H) FAN (H) Motor (CFM) SENS. (H) FAN (CFM) Motor (CFM) SENS. (H) EFFECTIVENESS (H) OA DB (H) FAN (H) Motor (CFM) SENS. (H) EFFECTIVENESS (H) OA DB (H) FAN (H) Motor (CFM) SENS. (H) EFFECTIVENESS (H) OA DB (H) AIR FLOW (H) Motor (CFM) SENS. (H) Image: H) OA DB (H) AIR FLOW (H) AIR FLOW (CFM) Motor (CFM) SENS. (H) SENS. (H) OA DB (H) AIR FLOW (H) AIR FLOW (CFM) Image: H) SENS. (H) OA DB (H) AIR FLOW (H) AIR FLOW (CFM) AIR FL	TER)PERFORMDB (°F)SA DB (°F)SENS. EFFECTIVENESS (%)LAT EFFECTIVENESS (%):50.190.885.1:57.982.978.1	MANCE DATA (SUMMER) A B SA DB M T. OA DB OA WB RA DB SA DB M /ENESS (°F) (°F) (°F) (°F) M 6 87.8 73.6 75 78.2 3 3 87.8 73.6 75 77.1	POST-HEATING ELECTAX ELEC. LOAD (kW)FLA (AMPS)MAIN DISCONNECTFUSENANANANA3232.1NOYES	AIRFLOW PI (CFM) (IN H NA N. 1200 0.	TIONS D EAT (H20) (°F A NA 1 -7.	Image: Application of the constraint of the constr
SPLIT SYSTEM INDOOR UNIT SCHED	DULE					RADIANT PANEL SCHEDULE
EQPT. NO. MANUFACTURER MODEL AREA SERVED ASSOCIATED OUTDOOR UNITS CONFIGURATION REFRIGERANT TYPE AIRFLOW (CFM) PEED CONTROL (CFM) EAT DB (P) EAT DB (P) TOTA AC-1 MITSUBISHI MSZ-GLO9NA OFFICE 112, OFFICE 119 CU-1, CU-2 WALL MOUNTED R410A 145-406 REMOTE 75 99 AC-2 MITSUBISHI MSZ-GL12NA STAFF ROOM 100 CU-2 WALL MOUNTED R410A 145-406 REMOTE 75 12 AC-3 MITSUBISHI MSZ-GL15NA MEETING ROOM 102 CU-2 WALL MOUNTED R410A 205-463 REMOTE 75 15	HEATING DATA AL CAP. EAT DB CAPACITY @ 4 'U/H) (°F) (BTU/H) 000 70 10900 2000 70 14400 3000 70 18000	47 °F MCA VOLT (V) PHASE FREQUENCY (Hz) 1 208 1 60 1 208 1 60 1 208 1 60 1 208 1 60	OPER. NOTES EMERGENCY POWER WEIGHT NOTES (Y/N) (KG) - N 12 - N 10 - N 10 -	TAGMANURP-1OLRP-2OLNOTES:	FACTURER JELLET JELLET	TYPEAREA SERVEDCONFIGURATIONCAPACITYELECTRICAL DATOPER. PHASEOPER. PLASEOPER. VEIGHTOPER. V
NOTES: 1. PROVIDE ASPEN MINI AQUA CONDENSATE PUMP.			·			DIFFUSER. REGISTER & GRILLE SCHEDULE
ARR-CCOOLED OUTDOOR CONDENSING UNIT SUBJECT TAG MANUFACTURER MODEL LOCATION ASSOCIATED INDOOR UNITS REFRIGERANT TYPE COOLING DATA EFFICIENCY (EER) CAPACITY (Btu/h) AMBIENT OAT (°F) AMBIENT OAT (°F) COP AT CU-1 MITSUBISHI MXZ-3C30NAHZ3-U1 ROOF AC-1, AC-2, AC-2 R410A 95 28400 12.5 25200 -13 4 CU-2 MITSUBISHI MXZ-3C24NAHZ3-U1 ROOF AC-1, AC-3 R410A 95 28400 12.5 25200 -13 4 NOTES:	CHEDULE E '47°F MCA MOP VOLT (V) 1 30.5 40 208 5 5 30.5 40 208 1	ELECTRICAL DATAPHASEFREQUENCY (Hz)EMERGENCY POWER (Y/N)160N160N	OPER. WEIGHT (KG)NOTES861861	TAG S-1 S-2 S-3 R-1 12 R-2 R-3 R-4	LOU DUC MEDIUM S X 12 LAY-IN, LOU MEDIUM MEDIUM	TYPESHAPESERVICELOCATIONSP-IN (WG)NC LEVEL DBMATERIALBASIS OF DESIGNREMARKSUVERED FACE GRILLERECTANGULARSUPPLYWALL0.0825STEELPRICE 6101, 2CT MOUNTED GRILLERECTANGULARSUPPLYDUCT0.0825STEELPRICE SDG1, 2SECURITY LOUVERED GRILLESQUARESUPPLYWALL0.0825STEELPRICE MSBL1, 2ROUND NECK, LOUVERED FACESQUARERETURN/EXHAUSTCEILING0.0825STEELPRICE ATG1, 2UVERED FACE GRILLESQUARERETURN/EXHAUSTCEILING0.0825STEELPRICE 8001, 2ISECURITY CEILING GRILLESQUARERETURN/EXHAUSTCEILING0.0825STEELPRICE MSRRCD1, 3ISECURITY CEILING GRILLESQUARERETURN/EXHAUSTCEILING0.0825STEELPRICE MSRRCD1, 3ISECURITY CEILING GRILLESQUARERETURN/EXHAUSTCEILING0.0825STEELPRICE MSRRCD1, 3
EXHAUST FAN SCHEDULE				NOTES: 1. COLOR WHITI 2. FRAME TYPE	E UNLESS NO TO MATCH C	OTED OTHERWISE. COORDINATE WITH ARCHITECT. CEILING OR WALL TYPE WHERE INSTALLED.
TAG MANUFACTURER MODEL LOCATION AREA SERVED FAN CONFIGURATION AIR FLOW E.S.P. (CFM) HP SPEED CONTROL POWER (W) VOIT (V)	ELECTRICAL DATA PHASE FREQUENCY EMERGENCY (Hz) (Y/N	Y POWER (KG) NOTES		3. PROVIDE WIT 4. PROVIDE WIT	TH OPPOSED	D BLADE DAMPER. IUSTABLE OPPOSED BLADE DAMPER.
Image: Note of the state of the st	1 60 N 3 60 N	7.7 1,2,3 35 1,2,3 7.7 1,2,3		PIPE CONNECTION	DIAMETER (PLUMBING - FIXTURE SCHEDULE
Instruction Instruction Instruction 240.0 0.3 Investige 3.5 120 NOTES: 1. PROVIDE WITH STARTER. ELECTRICAL TO PROVIDE DISCONNECT SWITCH. 2. GARAGE EXHAUST FANS TO BE CONTROLLED VIA CO MONITORING AND DETECTION SYSTEM. 3. PROVIDE MOTORISED DAMPERS AT LOUVRE PLENUMS AS INDICATED ON PLANS.		,,, <u>1</u> ,3	WC-1 WATER CLOSET - FLUSH VALVE	DCW DHW 32 -	SAN 75	VENT AMERICAN STANDARD: AFWALL MILLENIUM FLOWISE ELONGATED FLUSHOMETER TOILET. VITREOUS CHINA WITH EVERCLEAN. FLUSH VALVE: MOEN M-POWER AUTOMATIC EXPOSED FLUSH VALVE. MODEL 8311AC12. BRASS ANGLE STOP VALVE. CAST BRASS CONSTRUCTION WITH CHROME ELECTROPLATED FINISH. CHLORAMINES RESISTANT SEALS. 25MM INLET SUPPLY. 38MM TOP SPUD. HIGH BACK PRESSURE VACUUM BREAKER. DIVERTER SUPPORT VALVE. ADA COMPLIANT. 1.28 GPF / 4.8 LPF - WATERSENSE CERTIFIED. TOILET SEAT: CENTOCO 500STSCC-001.
ELECTRIC HEATER SCHEDULE TAG MANUFACTURER TYPE MODEL AREA SERVED CONFIGURATION AIR FLOW CAPACITY ELECTRICAL E EH-1 KING HEATERS FAN HEATER LPWV2015-W-TP HALL101, WASHROOMS 114 WALL MOUNTED - 1.5 208 3 60 EH-2 RUNTAL WALL PANEL EWP-8-208D HALL 109 WALL MOUNTED - 1.15 208 1 60 EH-3 MODINE UNIT HEATER HER 30 GARAGE 104, UTILITY ROOM 105 CEILING SUSPENDED 380 3 208 3 60 NOTES:	DATAOPER. WEIGHT (KG)EMERGENCY POWER (Y/N)(KG)N11N28N15.5	NOTES 1 2 2 2	WC-2 WATER CLOSET - FLUSH VALVE (HANDICAP) L-1 LAVATORY SINK	32 - 12 12	75	CLOSET CARRIER: FLOOR MOUNTED. AMERICAN STANDARD: AFWALL MILLENIUM FLOWISE ELONGATED FLUSHOMETER TOILET. VITREOUS CHINA WITH EVERCLEAN. FLUSH VALVE: MOEN M-POWER AUTOMATIC EXPOSED FLUSH VALVE. MODEL 8311AC12. BRASS ANGLE STOP VALVE. CAST BRASS CONSTRUCTION WITH CHROME ELECTROPLATED FINISH. CHLORAMINES RESISTANT SEALS. 25MM INLET SUPPLY. 38MM TOP SPUD. HIGH BACK PRESSURE VACUUM BREAKER. DIVERTER SUPPORT VALVE. ADA COMPLIANT. 1.28 GPF / 4.8 LPF - WATERSENSE CERTIFIED. TOILET SEAT: CENTOCO 500STSCC-001. CLOSET CARRIER: FLOOR MOUNTED. AMERICAN STANDARD: MURRO UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN. FAUCET: NEXTGEN SELECTRONIC INTEGRATED TOUCHLESS LAVATORY FAUCET. #775B.103. SUPPLY WITH AC TRANSFORMERS.
2. C/W REMOTE WALL MOUNTED THERMOSTAT.			L-2 TROUGH SINK	12 12	75	LAVATORY CARRIER. TROUGH SINK TO BE BY ARDEC GROUP, MONOLITH BASIN SYSTEM WITH PIPE SKIRT AND ACCESS DOOR LOCKS. 38 WITH DYSON AIRBLADE COMBINED WASH AND DRY - WD04 SHORT, LOW VOLTAGE 247659-01.
ELECTRIC DUCT COIL SCHEDULE TAG DUCT SIZE (mm) AIRFLOW (CFM) SIZE SP IN (WG) MAX FACE VELOCITY (FPM) MBH EAT (°F) LAT (°F) POWER (kW) ELECTRICAL (V/PH/HZ) BASIS EDH-1 STAFF AREAS 300 565 SAME AS DUCT SIZE 0.065 720 7.9 52.0 65.0 2.3 600.0 3.0 60.0 NAIL NOTES: 1. C/W DUCT MOUNTED THERMOSTAT AND AIR PROVING SWITCH. Joint Colspan="6">Joint Colspan="6">Joint Colspan="6">Joint Colspan="6">Joint Colspan="6">Joint Colspan="6">Joint Colspan="6" Joint Colspan="5" Joint Colspan="6" Joint Colspan="6" Joint Colspan="6	OF DESIGN NOTES		SH-1 SHOWER (NON-HANDICAP)	12 12	50	AMERICAN SPECIALTIES INC. EZFILL AUTOMATIC DECK MOUNTED SOAP DISPENSER. CHICAGO FAUCETS SH-PB1-00-000 COMPLETE SHOWER TRIM - POLISHED CHROME FINISH, PRESSURE BALANCING TUB AND SHOWER SYSTEM WITH VALVE TRIM, COLD TO HOT CYCLE, WALL MOUNTED, ROUND, 216 MM (8-1/2") Ø TRIM SIZE, LEVER HANDLE, PRESSURE BALANCING VALVE, BUILT-IN INTEGRAL CHECK STOPS, PRESSURE BALANCING VALVE CARTRIDGE, 13 MM (1/2") NOMINAL Ø COPPER SWEAT INLET, 13 MM (1/2") NOMINAL Ø COPPER SWEAT OUTLET, 138 - 862 KPA (20 - 125 PSI) OPERATING PRESSURE RANGE, 4 °C - 60 °C (40 °F - 140 °F) OPERATING TEMPERATURE RANGE, ADA COMPLIANT, ANSIICC A117.1ASSE 1016ASME A112.1016CSA B125.16 CHICAGO FAUCETS 621-LCP SHOWERHEAD - WALL MOUNTED, FULL SPRAY, 1.5 GPM (5.5 LPM), SINGLE FUNCTION, 1/2 " (13 MM) Ø NPT FEMALE THREAD INLET, 25°- 30° SPRAY ANGLE, 80 PSI MAX OPERATING PRESSURE, A112.18.1, ASME CODES, CSA B125.16, WATERSENSE LISTED
SUMP PUMP SCHEDULE TAG MANUFACTURER MODEL LOCATION SERVICE TYPE FLOW (GPM) FLOW (FT OF H2O) HP V PH HZ EMERGENCY POWE (Y/N)	R OPER. WEIGHT NOTES		SH-2 SHOWER (HANDICAP)	12 12	50	 CHICAGO FAUCETS SH-PB1-00-043 COMPLETE SHOWER TRIM - POLISHED CHROME FINISH, PRESSURE BALANCING TUB AND SHOWER SYSTEM WITH HAND SPRAY AND VALVE TRIM OPTIONS, WITH HAND SHOWER, 5.7 LPM (1.5 GPM) FLOWRATE, 69" (1753 MM) LONG STAINLESS STEEL HOSE, HAND SPRAY WITH PAUSE CONTROL, WALL ELBOW, IN-LINE VACUUM BREAKER, COLD TO HOT CYCLE, WALL MOUNTED, ROUND TRIM, 171 MM (6-3/4") Ø TRIM SIZE, LEVER HANDLE, PRESSURE BALANCING VALVE, BUILT-IN INTEGRAL CHECK STOPS, 610 MM (24") LONG ADA GRAB BAR, WALL MOUNTED ADA GRAB BAR, PRESSURE BALANCING VALVE CARTRIDGE, 13 MM (1/2") NOMINAL Ø COPPER SWEAT OUTLET, 138 - 862 KPA (20 - 125 PSI) OPERATING PRESSURE RANGE, 4 °C - 60 °C (40 °F - 140 °F) OPERATING TEMPERATURE RANGE, ADA, ANSI ICC A117.1 ASSE 1016 ASME A112.1016 CSA B125.16 MOST DEPENDABLE FOUNTAINS INC - MODEL 564 SM.
GP-1,2 BARNES XGV5052 - 575 (141346) PRE-CAST SANITARY TANK SANITARY SUBMERSIBLE 78 57 3450 5.0 EACH 575 3 60 N NOTES: 1. PUMPS ARE DUTY/STANDBY. 2. DUPLEX SYSTEM COMPLETE WITH CONTROL PANEL AND HIGH LEVEL ALARM. PROVIDE LEVEL SWITCHES AND FLOATS. CONTROL PANEL TO BE INSTALLED IN UTILITY ROOM. 3. PUMPS INSTALLED ON GUIDE RAILS FOR REMOVAL.	<u> 186 1, 2, 3</u>		SH-3 SHOWER ASSEMBLY - OUTDOOR	12		SURFACE MOUNT INSTALLATION. ADA ACCESSIBLE SHOWER ON ONE SIDE WITH GRAB BARS. ONE METERED SHOWER AND ONE FOOT SPRAY ON OPPOSITE SIDE. PUSH BUTTON OPERATED. STERN WILLIAMS - SINK SB-300-T-35-T-40-BP WITHOUT FAUCET LEDGE, PRECAST TERRAZZO PEARL GREY MARBLE CHIPS AND WHITE PORTLAND CEMENT, 76 MM (3") PIPE SIZE, CAST INTEGRALLY AND PROVIDES FOR A CAULKED LEAD CONNECTION NOT LESS THAN 25MM (1") DEEP TO A 76 MM (3") PIPE, FLAT STAINLESS STEEL STRAINER, WITHOUT TILING FLANGE, WITH STAINLESS STEEL CAP, HOSE AND WALL HOOK, MOP HANGER, SPLASH CATCHER, BOWL DIMENSION: 851 MM (33-1/2") LONG, 546 MM (21-
ELECTRIC DOMESTIC WATER HEATER SCHEDULE TAG MFR. MODEL LOCATION SYSTEM SERVED	ELECTRICAL		JS-1 JANITOR SINK	25 25	75	1/2") WIDE, 254 MM (10") DEEP, OVERALL DIMENSION: 914 MM (36") LONG, 610 MM (24") WIDE, 305 MM (12") HIGH. CHICAGO FAUCET 897-RCF WALL-HUNG, MANUAL, TWO HANDLES, MOP SINK FAUCET, ROUGH CHROME PLATED FINISH, 194 - 213 MM (7-5/8" TO 8-3/8") ADJUSTABLE CENTERSET, ROUND WALL ESCUTCHEONS, BRASS CONSTRUCTION, LESS SUPPLY, ADJUSTABLE SUPPLY ARMS, 1/4 TURN CERAMIC CARTRIDGE, NO FLOW RESTRICTOR, THREADED HOSE END, SPOUT WITH PAIL HOOK, 146 MM (5-3/4") SPOUT REACH, 273 MM (10-3/4") HIGH, TOP BRACE, 60 MM (2-3/8") LEVER HANDLE WITH INDEXED BUTTONS, LESS DRAIN, ATMOSPHERIC VACUUM BREAKER IS NOT INTENDED FOR CONTINUOUS PRESSURE APPLICATIONS.
HWT-1 AO SMITH DRE-120A-24 UTILITY ROOM 105 DOMESTIC HOT WATER HEATER 450 24 98 98 765 1,784 24	575/3/60					FRANKE COMMERCIAL UCD6408P-1 SINK - DOUBLE COMPARTMENT SINK, UNDERMOUNT COMMERCIAL SINKS, WITH OVERALL DIMENSION 784 MM (30-7/8") LONG, 451 MM (17-3/4") WIDE, 203 MM (8") HIGH, CONSTRUCTED FROM 18 GAUGE TYPE 304 STAINLESS STEEL, LEFT BOWL IS 356 MM (14") LONG AND RIGHT BOWL IS 356 MM (14") LONG, LEFT BOWL IS 406 MM (16") WIDE AND RIGHT BOWL IS 406 MM (16") WIDE, LEFT BOWL IS 203 MM (8") DEEP AND RIGHT BOWL IS 203 MM (8") DEEP, POLISHED TO #4 SATIN FINISH, FACTORY APPLIED RIM SEAL, CENTER BACK WASTE LOCATION, 38 MM (1-1/2") (DN38) BRASS TAILPIECE, STANDPIPE WITH GUARD, 89 MM (3-1/2") CRUMB CUP STRAINER, UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, CODES AND COMPLIANCES: ASME A112.19.3 COMPLIANT, CSA B45.4 COMPLIANT.
TAG MANUFACTURER NOPEL LOCATION SERVICE TYPE FLUID $I_{/S}$ I_{RPM} RPM			KS-1 KITCHEN SINK	12 12	38	 CHICAGO FAUCETS 430-ABCP FAUCET - COUNTER MOUNTED, MANUAL, SINGLE HANDLE, SINK FAUCET, POLISHED CHROME FINISH, SINGLE HOLE CENTERSET, LEAD FREE ANSI/NSF 61 COMPLIANT, ECAST® BRASS CONSTRUCTION, LESS SUPPLY, CERAMIC CARTRIDGE WITH VOLUME CONTROL, 5.7 LPM (1.5 GPM) MAXIMUM FLOWRATE, PRESSURE COMPENSATING ECONO-FLO™ NON-AERATED LAMINAR SPRAY OUTLET, TUBULAR CAST BRASS SPOUT, 229 MM (9") SPOUT REACH, 146 MM (5-3/4") HIGH, 108 MM (4-1/4") LEVER HANDLE, LESS DRAIN, 13 MM (1/2") NPSM SUPPLY INLET, INCLUDES HOT LIMIT SAFETY STOP. LAWLER 570-86820 MIXING VALVE - POINT OF USE AND MASTER CONTROLLED FIXTURES, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, 1.9 - 30 LPM (0.5 - 8 GPM) RANGE FOR FLOWRATE , TO ADJUST THE MIXED OUTLET TEMPERATURE OF THE VALVE, REMOVE THE CAP TO GAIN ACCESS TO THE ADJUSTING SPINDLE. THE SPINDLE SHOULD BE ROTATED-CLOCKWISE TO REDUCE THE TEMPERATURE, COUNTER-CLOCKWISE TO INCREASE THE
TAG MFR. MODEL LOCATION SERVICE ORIENTATION BLADDER VOLUME (L) DIMENSIONS (MM) MIN. OPERATING PRESSURE (kPa) MAX. OPERATING PRESSURE (kPa) NOTES ET-1 WESSELS TXA-35 UTILITY ROOM 105 DOMESTIC HOT WATER VERTICAL 30 600 300 - 860 1						TEMPERATURE UNTIL THE DESIRED SET POINT IS REACHED, 11 LPM (3 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, THE TEMPERATURE IS ADJUSTED WITH THE HELP OF SPINDLE, 4-7/8" (124 MM) HEIGHT, ASSE 1070 APPROVED CERTIFIED TO CSA B125.3 FOR ASSE 1070 APPLICATIONS, 3/8" MNPT (9.5 MM) INLET, 95-115 °F OUTLET WATER TEMPERATURE RANGE, 3/8" MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, OFFERS CHOICE OF TEMPERATURE SETTINGS FROM 95° THROUGH 115 °F., 125 PSI MAX HYDROSTATIC PRESSURE, ±20% PRESSURE VARIATION, 40-80 °F, 10 °F, 180 °F MAX, ±5 °F, PROTECTS AGAINST SCALDING AND CHILLING, 7 GPM FLOWRATE @ 45 PSI MCGUIRE LFCK165LK SUPPLY - LEAD FREE, PIPE TO COMPRESSION, INTEGRAL CHECK SUPPLY KIT, CHROME-PLATED FINISH, 3/8" I.P.S X 3/8" O.D, 305 MM (12") CHROME- PLATED RISERS, LOOSE KEY, FAUCET, SHALLOW WALL FLANGE MCGUIRE 8912CB P-TRAP - HEAVY CAST BRASS, ADJUSTABLE P-TRAP, 292 MM (11-1/2") LENGTH, WITH CLEANOUT PLUG, STEEL BOX FLANGE, NEOPRENE GASKET, SEAMLESS TUBUL AR BRASS BEND, SUPPLITS
NOTES: 1. C/W PRESSURE GAUGES AND FITTINGS			HB-1 HOSE BIBB	20 -	-	WATTS HY-330-K HYDRANT - MODERATE CLIMATE WALL HYDRANT WITH NB BOX, INTEGRAL VACUUM BREAKER, CYLINDER LOCK, ALL BRONZE, CHROME-PLATED HYDRANT FACE, NICKEL BRONZE, SEAT CASTING, LOOSE KEY, 19 MM (3/4") HOSE CONNECTION, INTEGRAL VACUUM BREAKER, 19 MM (3/4") FEMALE X 25 MM (1") MALE PIPE
ELECTRONIC TRAP SEAL PRIMER TAG MANUFACTURER MODEL LOCATION SERVICE NUMBER OF DRAINS SERVED ELECTRICAL DATA OPER. V PH HZ EMERGENCY POWER (VAI) WEIGHT NOTES			HB-2 NON-FREEZE HOSE BIBB (EXTERIOR) DF-1 DRINKING FOUNTAIN	12 - 20 -	- 75	WATTS - HYDRANT HY-725-K. NON-FREEZE DUO-TEMP WALL HYDRANT WITH SS BOX, ALL BRONZE, CHROME-PLATED HYDRANT FACE, NICKEL BRONZE, SEAT CASTING, LOOSE KEY, 19 MM (3/4") HOSE CONNECTION, BRONZE WALL CASING, UNSIZED THICKNESS, INTEGRAL VACUUM BREAKER, 19 MM (3/4") FEMALE X 25 MM (1") MALE PIPE CONNECTION, COMPLIES WITH ASME B1.20.7 AND ASSE 1019-2004, UPC/IAMPO LISTED. MAX. OPERATING PRESSURE 125 PSI. MOST DEPENDABLE FOUNTAINS, MODEL 10890 SM
TP-1 PPP PT-12 UTILITY ROOM 105 FLOOR DRAINS 8 6 120 1 60 N 5 1,2 TP-2 PPP PT-12 JANITOR 113 FLOOR DRAINS 12 6 120 1 60 N 5 1,2 NOTES: Image: State			DF-2 DRINKING FOUNTAIN			MOST DEPENDABLE FOUNTAINS, MODEL 10155 SM
1. WALL MOUNTED. PROVIDE WITH ACCESS PANEL. 2. CONTRACTOR TO COORDINATE SUITABLE LOCATION FOR TRAP PRIMERS & ALLOW FOR 12MM DCW LINE TO EACH FROM NEAREST MAIN.	TAG DESCRIPTION	PIPE CONNECTION DIAMETER (MM)	LUUK	ANU R		REMARKS
LINIT NO AREA SERVING TYPE AIRFLOW MAX VELOCITY PRESSURE DROP FRAME SIZE RACE OF DESIGN NOTES	FD-1 FLOOR DRAIN	DCW DHW SAN VENT - - 75 WAT	TS - FLOOR DRAIN FD-100-M. EPOXY COATED CAST IRC	ON, FLOOR DRAIN,A	DJUSTABLE	SQUARE HEEL PROOF NICKEL BRONZE STRAINER. ANCHOR FLANGE, REVERSIBLE MEMBRANE CLAMP, COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, VANDAL-PROOF, TRAP
ANCES SERVING ITTE (CFM) (FPM) (IN WG) (MM x MM) BASIS OF DESIGN NOTES L-1 GARAGE 104 INTAKE/EXHAUST 420 500 0.01 600X600 C-S GROUP 1, 2, 3, 4 L-2 UTILITY ROOM 105 INTAKE/EXHAUST 1,715 500 0.06 1500X600 C-S GROUP 1, 2, 3, 4	FD-2 FUNNEL FLOOR DRAIN	75 PRIM COLL	EK TAPPING, CERTIFICATION AND COMPLIANCES INC IS - FUNNEL FLOOR DRAIN FD-320-EG-6. EPOXY COAT AR WITH WEEPHOLES, 97 CM ² (15 SQ. IN.) FREE AREA, IS - ELORD DRAINED 222 C - EDOX (20 STREE AREA,	EUDE: ASME A112.21 TED CAST IRON, FLOO VANDAL-PROOF, CE	DR DRAIN, AI	LIAN I DJUSTABLE ROUND 203 MM (8") DIAMETER TOP, 203 MM (8") DUCTILE IRON GRATE, ANCHOR FLANGE, MEMBRANE CLAMP, 102 X 229 MM (4" X 9") OPEN THROAT CAST IRON FUNNEL, IN AND COMPLIANCES INCLUDE: ASME A112.21.1M COMPLIANT.
L-3 STORAGE 208 EXHAUST 240 500 0.05 250X250 C-S GROUP 1, 2, 3, 4 NOTES: 1. COLOR TO BE SELECTED BY ARCHITECT. 2. PROVIDE INSECT SCREEN 4. COLOR TO BE SELECTED BY ARCHITECT. 4. COLOR TO BE SELECTED BY ARCHITECT.	FD-3 HEAVY DUTY FLOOR DRAIN CO-1 CLEANOUTS	150 WAT PRIM 75 WAT	ER TAPPING, CERTIFICATION AND COMPLIANCES INC S - FLOOR CLEANOUT CO-200-S. FLOOR CLEANOUT W VABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUC	LUDE: ASME A112.21 ILUDE: ASME A112.21 VITH SQUARE TOP. W	ALE EULOS ABLE 1.1M COMPL /ATTS CO-20 NDARD OLOS	LIANT. 20-S EPOXY COATED CAST IRON FLOOR CLEANOUT WITH 5" X 5"(127X127) SQUARE ADJUSTABLE GASKETED NICKEL BRONZE TOP, ITLET.
2. FROVIDE INSECT SCREEN. 3. SIZE TO BE COORDINATED WITH ARCHITECTURE TO FIT WITHIN OPENING FRAME AND/OR BRICK COURSING. 4. PROVIDE MOTORIZED DAMPERS AT INTAKE AND EXHAUST.	RD-1 ROOF DRAIN	150 WAT RECE	IS-ROOF DRAIN RD-100-A-B-D-K. LARGE AREA ROOF E VER, UNDERDECK CLAMP, DUCTILE IRON DOME	DRAIN, BI-LEVEL (IRN	MA), EPOXY	COATED CAST IRON, FLASHING CLAMP, INTEGRAL GRAVEL STOP, SELF-LOCKING POLYETHYLENE DOME STRAINER, ACCUTROL FLOW RESTRICTOR (SPECIFY # 1-6 SLOTS), SUMP



ICA	AL DATA		0050	
E	FREQUENCY (Hz)	EMERGENCY POWER (Y/N)	OPER. WEIGHT (KG)	NOTES
	60	N	NA	1
	60	N	590	1

F, TRAP

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND CONDITIONS ON THE JOB. DO NOT SCALE DRAWINGS.

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THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE ARCHITECT.

4	2025-04-11	ISSUED FOR TENDER	
3	2024-09-18	ISSUED FOR BUILDING PERMIT	
2	2024-08-16	ISSUED FOR 100% COSTING	
1	2023-01-31	ISSUED FOR 50% CD	
No.	Date	Description	
Issue	Issue Record		



BLUFFER'S PARK

EAST WASHROOM

1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

MECHANICAL SCHEDULES

Print Date 2025-04-11 Scale NONE Project No. 0010052.000 Drawn by MD Checked by SF



1. 1 1	GENERAL
	STANDARDS TO ENABLE THE CONTRACTOR TO SUPPLY AND INSTALL A FINISHED, FULLY FUNCTIONAL MECHANICAL SYSTEM FOR THE PROJECT, IN COMPLETE ACCORDANCE WITH CURRENT ONTARIO BUILDING CODE AND LOCAL BYLAWS. THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL
1.2.	MECHANICAL WORK. LIABILITY: ASSUME RESPONSIBILITY FOR LAYING OUT WORK AND FOR DAMAGE
	RESPONSIBILITY FOR CONDITION OF MORK IS COMPLETED AND ACCEPTED.
1.3.	CERTIFICATES: GIVE NOTICES, OBTAIN PERMITS, AND PAY PERMIT AND INSPECTION FEES SO WORK SPECIFIED AND SHOWN MAY BE CARRIED OUT. FURNISH CERTIFICATES, IF REQUESTED, AS EVIDENCE THAT WORK CONFORMS
1.4.	CUTTING AND PATCHING: MEASURE OUT AND PROVIDE LOCATIONS FOR HOLES FOR MECHANICAL EQUIPMENT AND PROVIDE SLEEVES REQUIRED FOR THE MECHANICAL INSTALLATIONS. BE RESPONSIBLE FOR CUTTING AND
1.5.	PATCHING OF BUILDING STRUCTURE REQUIRED BY WORK UNLESS OTHERWISE INDICATED. TESTING: TEST EQUIPMENT AND MATERIALS WHERE INDICATED HERE AND
1.6.	REQUIRED BY AUTHORITIES HAVING JURISDICTION, TO DEMONSTRATE PROPER OPERATION. GUARANTEE: PROVIDE THE OWNER WITH A WRITTEN GUARANTEE FOR
17	LABOUR AND MATERIAL WARRANTING SYSTEMS AND EQUIPMENT FURNISHED TO REMAIN IN SERVICEABLE CONDITION FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER.
1.7.	MATERIALS USED ARE SUBJECT TO ACCEPTANCE BY THE CONSULTANT. REMOVE CONDEMNED MATERIALS AND INSTALL SUITABLE MATERIALS IN THEIR PLACE. MATERIALS SHALL BE NEW AND OF UNIFORM PATTERN THROUGHOUT, WHERE SPECIFICALLY IDENTIFIED IN THIS SPECIFICATION. WORKMANSHIP SHALL FOLLOW THE BEST TRADITION AND TRADESMANSHIP. EMPLOY ONLY TRADESMEN PROPERLY LICENSED FOR WORK REQUIRING
1.8.	ACCESS: ENSURE ADEQUATE MAINTENANCE ACCESS IS PROVIDED/MAINTAINED TO MANUAL BALANCING DAMPERS, SMOKE/FIRE DAMPERS, VALVES, METERS, EQUIPMENT, INCLUDING THOSE EXISTING
1.0	PROVIDE ADEQUATELY-SIZED AND FIRE-RATED (WHERE REQUIRED) ACCESS DOORS WHERE A SOLID FINISHED CEILING/WALL EXISTS. COORDINATE TYPE, COLOUR, AND INSTALLATION WITH THE GENERAL CONTRACTOR AND ARCHITECT/INTERIOR DESIGNER.
1.9.	APPLICABLE ITEMS) FOR HVAC EQUIPMENT, BMS/DDC SYSTEM, FANS, AIR OUTLETS, FIRESTOP ASSEMBLIES, SMOKE/ FIRE DAMPERS, WATER HEATER AND PLUMBING FIXTURES TO THE CONSULTANT FOR REVIEW INCLUDING ALL PERFORMANCE DATA, PHYSICAL DIMENSIONS, ELECTRICAL DATA, OPERATING WEIGHTS, AND APPLICABLE LISTINGS
1.10.	RECORD DRAWINGS: ENSURE ONE SET OF WHITE PRINT PLANS AND SPECIFICATIONS ARE KEPT ON SITE AT ALL TIMES FOR CONSULTANT INSPECTION. INDICATE ANY CHANGES AND DEVIATIONS FROM THE CONTRACT DOCUMENTS, INCLUDING WORK BY CHANGE ORDERS AND JOB INSTRUCTIONS. THE CONTRACTOR SHALL INCLUDE A CASH ALLOWANCE OF \$300 PER PLAN SHEET FOR THE CONSULTANT TO TRANSFER MARKED UP CHANGES TO CAD FILES, AND FOR PROVIDING TWO SETS OF RECORD
1.11.	DRAWINGS AND ELECTRONIC CAD FILES TO THE OWNER. CLOSE-OUT DOCUMENTATION/OPERATION AND MAINTENANCE MANUALS: WITHIN TWO WEEKS OF SUBSTANTIAL COMPLETION, PROVIDE THREE COPIES
1.	CATALOGUE BINDERS: PROJECT INFORMATION
2	PROJECT NAME, ADDRESS, AND DATE OF SUBSTANTIAL COMPLETION CONTACT INFORMATION FOR GENERAL CONTRACTOR AND ALL MECHANICAL CONTRACTORS AND SUBTRADES LETTERS OF ASSUBANCE AND WARRANTY DOCUMENTS
Ζ.	- COPIES OF ALL APPLICABLE WORK PERMITS
	 COPY OF CONTRACTOR'S (AND MECHANICAL SUB-CONTRACTOR'S IF APPLICABLE) 1-YEAR WARRANTY LETTER
	 WARRANTY FORMS FOR ALL APPLICABLE MECHANICAL EQUIPMENT LETTER FROM FIRESTOP CONTRACTOR CERTIFYING FIRESTOP IS COMPLETE AND INSTALLED ACCORDING TO MANUFACTURER'S LISTINGS.
	 PLUMBING FINAL INSPECTION CERTIFICATE. (IF REQUIRED) NATURAL GAS INSPECTION REPORT. (IF REQUIRED)
3.	 BACKFLOW PREVENTER TEST CERTIFICATES TESTING, ADJUSTING, AND BALANCING (TAB) DOCUMENTATION WATER AND AIR BALANCING REPORT
	 PIPING TEST FORMS CHEMICAL TREATMENT REPORT
4.	HVAC SYSTEM
	 BRIEF DESCRIPTION OF HVAC SYSTEM COMPONENTS AND OPERATION OPERATING AND MAINTENANCE MANUALS FOR NEW EQUIPMENT
5.	- SEQUENCES OF OPERATION (CONTROLS SHOP DRAWINGS) FINAL SHOP DRAWINGS
1.1.	ADDITIONAL DOCUMENTATION: CONTRACTOR SHALL SUPPLY ALL DOCUMENTATION AND INFORMATION WHICH IS REQUIRED FOR APPLICATION TO INCENTIVE AND REBATE PROGRAMS.
1.2.	FIELD REVIEW: THE MECHANICAL CONTRACTOR SHALL NOTIFY THE CONSULTANT, IN WRITING AND WITHIN 48 HOURS, OF START-UP OF WORK, FOR 50% COMPLETION AND 100% COMPLETION FOR FIELD REVIEW SCHEDULING PURPOSES.
2. 2.1.	IDENTIFICATION PROVIDE IDENTIFICATION SYSTEMS FOR MATERIALS USED IN MECHANICAL
2.2	SYSTEMS WHICH REQUIRE CONTROL BY WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) ISSUED BY OCCUPATIONAL SAFETY AND HEALTH AUTHORITIES.
2.2.	WITH LAMICOID LABELS WITH 1" LETTERS AND KEY WITH CONTROL SCHEMATICS. PROVIDE LAMICOID LABELS WITH 1" LETTERS ON EQUIPMENT AND MOTOR STARTERS.
2.3.	ON SERVICES THAT ARE EXPOSED, WITHIN MECHANICAL/SERVICE ROOMS, OR LOCATED ABOVE REMOVABLE CEILING PANELS, PROVIDE PIPE/DUCTWORK IDENTIFICATION AND FLOW DIRECTION ARROW FOR EVERY 6 METERS (20 FEET) OF STRAIGHT RUN AND AT EVERY CHANGE OF DIRECTION. ALL PIPE, DUCT AND OTHER SYSTEMS (DDC) IDENTIFICATION SHALL ALSO BE
	COORDINATED WITH THE LANDLORD'S REQUIREMENTS.
3. 3.1.	BALANCING QUALITY ASSURANCE
1.	ACCEPTABLE BALANCING FIRMS: AIR BALANCE GROUP. AIR AUDIT, CLARK, AERODYNAMICS, PRO-AIR, DYNAMIC FLOW BALANCING, AIR VELOCITIES CONTROL, FLOWSET, DESIGNTEST AND BALANCE, VPG, VITAL CANADA, TECHNICAL AIR BALANCING
2.	PROCEDURES SHALL BE IN ACCORDANCE WITH CURRENT EDITION OF AABC'S NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION, TOTAL SYSTEM BALANCE.
3.1.	INSTRUMENTS FOR TESTING AND BALANCING OF AIR SYSTEMS SHALL HAVE BEEN CALIBRATED WITHIN SIX MONTHS AND VERIFIED FOR ACCURACY BEFORE START OF WORK.
3.2. 1.	PROCEDURES DATA SHEETS REQUIRED ARE AS FOLLOWS: AIR MOVING EQUIPMENT TEST SHEET, EXHAUST FAN TEST SHEET, CIRCULATION WATER PUMP DATA SHEET, HYDRONIC DISTRIBUTION / TERMINAL TEST SHEET
2.	BALANCE TO MAXIMUM FLOW DEVIATION FROM SPECIFIED VALUES OF 10% AT TERMINAL DEVICE AND 5% AT EQUIPMENT OR MEAN SOUND LEVEL DEVIATION OF 20 DB
3.	PERMANENTLY MARK SETTING ON VALVES, SPLITTERS, DAMPERS AND OTHER ADJUSTMENT DEVICES. TAKE MEASUREMENTS TO VERIFY BALANCE HAS NOT
4.	AT FINAL FIELD REVIEW, RE-CHECK RANDOM SELECTIONS OF DATA RECORDED IN REPORT. RECHECK POINTS OR AREAS AS SELECTED AND WITNESSED BY CONSULTANT AND/OR LANDLORD.
3.1. 1.	ACCEPTANCE MECHANICAL SYSTEMS SHALL NOT BE CONSIDERED READY FOR FINAL FIELD
	REVIEW UNTIL BALANCING RESULTS ARE ACCEPTABLE TO CONSULTANT. IF FOUND THAT SPECIFIED FLOWS CANNOT BE ACHIEVED ON PORTIONS OF SYSTEM ACTUAL CONDITIONS SHALL BE PEPOPTED TO CONSULTANT FOR

CONTRACT.

3.1. BALANCING REPORT

- FOR INCLUSION IN OPERATING AND MAINTENANCE MANUALS. REPORT SHALL BE INDEXED AS FOLLOWS: SECTION 1 SYSTEM DATA (DESIGNED, INSTALLED AND RECORDED) AIR MOVING EQUIPMENT (FANS) AIR HEATING AND COOLING EQUIPMENT (COILS) AIR INLETS/OUTLETS CIRCULATION WATER PUMP DATA SHEET HYDRONIC DISTRIBUTION / TERMINAL TEST SHEET SECTION 2 DRAWINGS BALANCING DRAWINGS 3.1. AIR SYSTEM PROCEDURES
- MAKE TESTS WITH SUPPLY, RETURN AND EXHAUST SYSTEMS OPERATING AND OORS AND WINDOWS CLOSED OR IN NORMAL OPERATION CONDITION. TEST AND ADJUST BLOWER RPM TO DESIGN REQUIREMENTS. TEST AND RECORD MOTOR FULL LOAD AMPS
- MAKE AIR QUANTITY MEASUREMENTS IN DUCTS BY PITOT TUBE TRAVERSE OF ENTIRE CROSS-SECTIONAL AREA. TAKE MINIMUM OF 16 READINGS. 3 ADJUST MAIN SUPPLY AND RETURN DUCTS TO DESIGN FLOW RATES ADJUST ZONES TO DESIGN. SUPPLY AND RETURN FLOW RATES. TEST AND ADJUST
- EACH DIFFUSER. GRILLE AND REGISTER TO WITHIN 10% OF DESIGN REQUIREMENTS. ADJUST DIFFUSERS, GRILLES AND REGISTERS TO MINIMIZE DRAFTS 4. USE VOLUME CONTROL DEVICES TO REGULATE AIR QUANTITIES ONLY TO
- EXTENT THAT ADJUSTMENTS DO NOT CREATE OBJECTIONABLE AIR MOTION OR SOUND LEVELS. EFFECT VOLUME CONTROL BY DUCT INTERNAL DEVICES SUCH AS DAMPERS AND SPLITTERS. PROVIDE SYSTEM SCHEMATIC WITH REQUIRED AND ACTUAL AIR FLOW RATES
- AT EACH OUTLET OR INLET. IDENTIFY EACH DIFFUSER, GRILLE AND REGISTER AS TO LOCATION AND AREA. 6. RECORD INSTALLED FAN DRIVE ASSEMBLIES, FAN SHEAVES, MOTOR SHEAVES
- AND BELTS. RECORD EACH INSTALLED MOTOR MANUFACTURER AND FINAL MOTOR AMPERAGE. 7. COMPLETE BALANCING TO ACHIEVE POSITIVE BUILDING PRESSURE UNLESS
- OTHERWISE INSTRUCTED. 8 POSITIVE PRESSURE RELATIVE TO OUTSIDE PRESSURE OF 0.04"W.G. MINIMUM AND 0.07"W.G. MAXIMUM SHALL BE ACHIEVED, MEASURED WITH NEGLIGIBLE OUTSIDE WIND VELOCITY.

TESTING

- 1.1. TEST EQUIPMENT AND MATERIAL WHERE SPECIFIED OR REQUIRED BY AUTHORITY HAVING JURISDICTION. TEST IN ACCORDANCE WITH APPLICABLE PORTIONS OF ASME, ASHRAE, SMACNA, NFPA, CSA AND OTHER RECOGNIZED FEST STANDARDS/CODES. 1.2. PROVIDE NOTICE OF TESTS TO CONSULTANT. ON COMPLETION OF
- INSTALLATION, PROVIDE CERTIFICATION OF TESTS WITH REQUIRED DETAIL. TEMIZE TESTS AS TO TIME PERFORMED AND PERSONNEL RESPONSIBLE. INCLUDE COPY OF FIELD DATA IN OPERATING AND MAINTENANCE MANUALS. 1.3. PRESSURE TESTS
- 1. PIPING, FIXTURES OR EQUIPMENT SHALL NOT BE CONCEALED UNTIL INSPECTED AND APPROVED BY CONSULTANT. CARRY OUT HYDRAULIC TESTS FOR 8 HOURS. MAINTAIN PRESSURE. WHERE LEAKAGE OCCURS, REPAIR AND RF-TFST
- 2. DOMESTIC WATER PIPING: TEST TO 1-1/2 TIMES MAXIMUM WORKING PRESSURE OR 150 PSI WATER PRESSURE MEASURED AT SYSTEM LOW POINT. 3. DRAINAGE SYSTEM: TEST BY FILLING WITH WATER TO PRODUCE WATER PRESSURE OF 1.5 METERS (5 FEET) WATER COLUMN MINIMUM AND 7.5 METERS (25 FEET) WATER COLUMN MAXIMUM. CHECK FOR PROPER GRADE AND OBSTRUCTION BY BALL TEST.
- 4. LOW PRESSURE DUCTS: TEST FOR TIGHTNESS SUCH THAT LEAKAGE IS INAUDIBLE AND NOT DETECTABLE BY FEEL
- SHOULD TESTS INDICATE DEFECTIVE WORK OR VARIANCE WITH SPECIFIED REQUIREMENTS, CORRECT DEFECTS. CORRECT LEAKS BY RE-MAKING JOINTS IN SCREWED FITTINGS, CUTTING OUT AND RE-WELDING WELDED JOINTS AND RE-MAKING JOINTS IN COPPER LINES. DO NOT CAULK.
- 4.1. PERFORMANCE TESTS 1. LUBRICATE BEARINGS, ADJUST AND/OR REPLACE AND SET DIRECT AND "V"-BELT DRIVES FOR PROPER ALIGNMENT AND TENSION. 2. CALIBRATE AND ADJUST THERMOSTATS, LINKAGES AND DAMPERS. OPERATE
- AND TEST MOTORS FOR CORRECT WIRING AND SEQUENCES. CHECK OVERLOAD HEATERS IN MOTOR STARTERS. FASTEN LOOSE AND RATTLING PIECES OF EQUIPMENT TO ENSURE QUIET OPERATION.
- VIBRATION ISOLATION

6. FIRESTOPPING

5.1. PROVIDE VIBRATION ISOLATORS SYSTEMS MEETING REQUIREMENTS OF AUTHORITY HAVING JURISDICTION. 5.2. RESILIENTLY FASTEN ALL MECHANICAL EQUIPMENT TO STRUCTURE HANDLING UNITS, SPLIT SYSTEM OUTDOOR UNITS, DOMESTIC HOT WATER

OMPONENTS AND

- 6.1. WORK INCLUDED: FURNISH LABOUR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY TO PROVIDE FIRESTOPPING AND SMOKE SEALS AROUND MECHANICAL SERVICE PIPING AND DUCT PENETRATIONS THROUGH FIRE ALS FOR NEW EQUIPMENT RATED WALL AND FLOOR ASSEMBLIES TO CSA STANDARD CAN4-S115-M85 AND AUTHORITIES HAVING IURISDICTION.
 - 6.2. ACCEPTABLE FIRESTOPPING SYSTEMS FOR VERTICAL PENETRATIONS: 3M FIRE BARRIER PENETRATION SEALING SYSTEM, BIO-FIRE PROTECTION LTD. FIRESTOPPING AND SMOKE SEALS.
 - 6.3. LOCATION AND EXTENT OF FIRE SEPARATIONS SHALL BE CONFIRMED WITH ARCHITECTURAL DRAWINGS. INSULATION

SEPARATIONS OF JOINTS OR CRACKING OR INSULATION DUE TO THERMAL

EXCEED 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED OR

3. DOMESTIC HOT WATER AND RECIRC, PIPE SIZE 40mm (1-1/2")ø AND UP =

1. EXPOSED: 15 MIL PVC JACKET WITH SOLVENT WELDS (INCLUDES WITHIN

1. SUPPLY AIR DUCTS AND PLENUMS ABOVE FINISHED CEILINGS = 25mm (1"

)THICK (UP TO FLEXIBLE DUCT CONNECTION OR 1.5 METERS (5') FROM

ACOUSTIC DUCT LINERS AS INDICATED BY HATCHING = 25mm (1") THICK

3. PLENUMS BELOW ROOF MOUNTED FANS (ACOUSTICAL LINING) =25mm (1")

1. FACTORY FINISHED WITH NO FURTHER FINISH REQUIRED. RAW EDGE OF

INSULATION SHALL NOT BE ALLOWED TO BE EXPOSED IN CEILING

7.1. FOR ANY SERVICES, TEMPERATURES, OR SIZES NOT REFERENCED ABOVE,

7.2. VAPOUR BARRIER SHALL BE CONTINUOUS FOR ALL "COLD" SERVICES

7.3. REFRIGERATION PIPING: REFER TO REFRIGERATION SECTION

1. SANITARY DRAINAGE WASTE VENT (DWV) BELOW GRADE

2. SANITARY DRAINAGE WASTE VENT (DWV) ABOVE GRADE

BRASS FITTINGS AND 50-50 SOLDER

ABS OR DWV PVC

3. DOMESTIC WATER ABOVE GRADE

INSULATION THICKNESS SHALL BE PROVIDED ACCORDING TO ASHRAE/IES

STANDARD 90.1-2010 (TABLE 6.8.2 MINIMUM DUCT INSULATION, TABLE 6.8.3

INCLUDING DOMESTIC COLD WATER AND CHILLED WATER. PROVIDE RIGID

BLOCKING AND OVERSIZED PIPE HANGERS/SUPPORTS FOR THESE SERVICES.

PENETRATIONS THROUGH WALLS SHALL HAVE CONTINUOUS INSULATION.

8.1. PROVIDE ALL NECESSARY PIPING MATERIAL AND LABOUR FOR THE SYSTEMS

UP TO 65mm (2-1/2")ø: DWV COPPER WITH WROUGHT OR CAST

ALL SIZES: CAST IRON WITH S.S. MECHANICAL JOINT COUPLINGS

AS SHOWN ON THE DRAWINGS. PIPING AND FITTINGS SHALL BE IN

ACCORDANCE WITH CURRENT APPLICABLE CODES OR GOVERNING

2. CONCEALED: ALL SERVICE JACKET WITH INTEGRAL VAPOUR BARRIER.

DOMESTIC COLD WATER, ALL SIZES = 25mm (1") THICK

MECHANICAL ROOMS AND ABOVE CLOUD CEILINGS)

4. OUTDOOR AIR DUCT IN HEATED SPACE = 50mm (2") THICK

7.1. DUCTWORK AND PLENUMS INSULATION FINISHES:

MINIMUM PIPE INSULATION THICKNESS).

7.1. DUCTWORK AND PLENUMS INSULATION THICKNESS:

OTHERWISE AS REQUIRED BY CODE. USE ONLY ULC LISTED OR TESTED

MOVEMENT OR POOR WORKMANSHIP COMPOSITE FIRE AND SMOKE HAZARD

DOMESTIC HOT WATER AND RECIRC, PIPE SIZE <40mm (1-1/2")ø = 12mm (1/2")

RATINGS FOR ADHESIVES. INSULATION. COATINGS AND IACKETS SHALL NOT

7.1. MATERIALS AND APPLICATION TEMPERATURES SHALL BE AS RECOMMENDED BY ADHESIVE, COATING OR SEALER MANUFACTURER. MAKE GOOD

COVERING MATERIALS.

12mm (1/2") THICK

DIFFUSER)

PLENUM/SPACE.

PLUMBING

REGULATIONS

8.2. PIPE AND FITTINGS

7.1. PIPING INSULATION FINISHES

7.2. PIPING INSULATION THICKNESS

- ALS USED IN MECHANICA ACE HAZARDOUS MATERIAL PATIONAL SAFETY AND
- 5, INSTRUMENTS AND RELAYS Y WITH CONTROL " LETTERS ON EQUIPMENT
- NICAL/SERVICE ROOMS, OR ROVIDE PIPE/DUCTWORK OR EVERY 6 METERS (20 FEET) RECTION. ITIFICATION SHALL ALSO BE
- ROUP. AIR AUDIT. CLARK NCING, AIR VELOCITIES
- VPG, VITAL CANADA, **IRRENT EDITION OF AABC'S**
- IT AND INSTRUMENTATION, AIR SYSTEMS SHALL HAVE
- IFIED FOR ACCURACY BEFORE
- OVING EQUIPMENT TEST WATER PUMP DATA SHEET
- SPECIFIED VALUES OF 10% AT EAN SOUND LEVEL DEVIATION
- FERS, DAMPERS AND OTHER VERIFY BALANCE HAS NOT EN RECTIFIED.
- ECTIONS OF DATA RECORDED CTED AND WITNESSED BY
- ED READY FOR FINAL FIELD ABLE TO CONSULTANT. IF IEVED ON PORTIONS OF RTED TO CONSULTANT FOR CONSIDERATION OF CORRECTIVE ACTION BEFORE CONTINUING BALANCING PROCEDURE. IF REPORT REJECTED, SYSTEMS SHALL BE RE-BALANCED AND NEW CERTIFIED REPORT SUBMITTED AT NO ADDITIONAL COST TO THE
- SUBMIT DRAFT COPIES OF REPORTS, COMPLETE WITH FIELD NOTES, BEFORE FINAL ACCEPTANCE OF PROJECT. PROVIDE THREE COPIES OF FINAL REPORT

- ALL SIZES: CERTIFIED TYPE "L" OR "K" HARD COPPER WITH SILVABRITE 100 LEAD-FREE SOLDER ALL SIZES: VIEGA PRO-PRESS (CONTRACTOR MUST CONFIRM CERTIFICATION BY MANUFACTURER AND MINIMUM 5 YEARS OF
- EXPERIENCE) 4. CONDENSATE DRAINS
- FROM COOLING COILS / ERV: DWV COPPER, IPEX SYSTEM 15 DWV PVC, (COMBUSTIBLE BUILDINGS ONLY: PVC PIPE OR PE TUBE) 8.1. PIPE SUPPORTS: ALL "COLD" SERVICES INCLUDING DOMESTIC COLD WATER AND IRRIGATION PIPING SHALL USE OVERSIZED PIPE HANGERS TO PERMIT CONTINUOUS INSULATION AND VAPOUR BARRIER TO BE MAINTAINED. PROVIDE RIGID INSULATION BLOCKING AND METAL INSULATION SHIELDS
- BETWEEN PIPE AND HANGER OR RISER CLAMPS. 8.2. VALVES PROVIDE VALVES OF SAME MANUFACTURER THROUGHOUT WHERE POSSIBLE. VALVES ON DOMESTIC COLD, HOT AND RECIRCULATION WATER SERVICE
- SHALL BE RATED AT 125 PSI. BACK FLOW PREVENTER ASSEMBLIES: PROVIDE ULC LISTED BACKFLOW PREVENTERS AS SHOWN ON DRAWINGS AND/OR AS REQUIRED BY THE LOCAL
- AUTHORITIES HAVING JURISDICTION. PROVIDE VACUUM BREAKER ON DOMESTIC WATER SUPPLY TO COMMERCIAL DISHWASHERS, JANITOR SINKS AND OTHER REQUIRED FIXTURES AS NOTED IN
- THE FIXTURE SCHEDULE. 4. PROVIDE AIR GAP FITTING ON DRAIN FROM REQUIRED FIXTURES. EQUAL TO WATTS 900 AG.
- 5 TRAP SFAL PRIMERS: PROVIDE PRIMING DEVICE AND PIPING TO NEAREST ACCEPTABLE FIXTURE SO THAT DEVICE WILL INTRODUCE REGULATED AMOUNT OF WATER INTO TRAP. EQUAL TO WATTS 200. 8.1 CLEAN-OUTS AND ACCESS COVERS' INSTALL ACCESSIBLE CLEAN-OUTS AT
- TRAPS, WHERE REQUIRED BY CODE AND AS INDICATED ON DRAWINGS. CLEAN-OUT COVERS SHALL HAVE DEPRESSED CENTRE TO ACCEPT FLOOR FINISH OR BE SELECTED TO SUIT TRAFFIC LOADING REOUIREMENTS. WHERE APPLICABLE. EOUAL TO ZURN ZN-1508. CLEAN-OUTS ON SUB-SURFACE DRAINAGE SYSTEM EXTENSIONS SHALL BE ZURN Z-1500 (OR EQUAL) IN UNFINISHED CONCRETE, ZURN Z-1440 (OR EQUAL) ENCASED IN 400MM X 400MM X 100MM (16" X 16" X 4") THICK CONCRETE PAD IN SOFT LANDSCAPING AND ZURN Z-1502 (OR EOUAL) IN FINISHED CONCRETE OR PAVERS.
- 8.2. DRAINS: PROVIDE DRAINS AS SHOWN ON DRAWINGS. DRAINS SHALL BE 5mm (3") UNLESS NOTED OTHERWISE. REVIEW LOCATION OF DRAINS ON ARCHITECTURAL DRAWINGS AND CONFIRM WITH CONSULTANT THAT DRAIN WILL BE AT LOW POINTS ON FLOOR. IMPROPERLY LOCATED DRAINS SHALL BE RELOCATED AT NO COST TO OWNER 8.3. PLUMBING FIXTURES AND TRIM
- 1 PROVIDE NEW FIXTURES OF ONE MANUFACTURER AND OF SAME COLOUR, CSA APPROVED FREE FROM DEFECTS WITH CLEAR, SMOOTH AND BRIGHT FINISH. PROVIDE CSA APPROVED PLUMBING BRASS WITH METAL WORK HEAVY CHROMIUM PLATED AND PRODUCT OF ONE MANUFACTURER.
- PROVIDE ELEXIBLE ANGLE TYPE HOT AND COLD WATER SUPPLIES WITH SCREWDRIVER STOP, HEXAGONAL REDUCER AND ESCUTCHEON. PROVIDE HEAVY CHROMIUM PLATING WHERE EXPOSED.
- 3. REVIEW MILLWORK DRAWINGS AND ADVISE CONSULTANT OF DISCREPANCIES BEFORE ORDERING FIXTURES. REVIEW ARCHITECTURAL DRAWING TO CHECK PLUMBING FIXTURE SPECIFICATION PRIOR TO PREPARING SHOP DRAWINGS. 4. INSTALL EACH FIXTURE WITH ITS OWN TRAP, EASILY REMOVABLE FOR SERVICING AND CLEANING. AT COMPLETION, THOROUGHLY CLEAN
- PLUMBING FIXTURES AND EQUIPMENT. INSTALL WALL MOUNTED FIXTURES WITH APPROVED WALL CARRIERS, MODEL TO SUIT INSTALLATION. WHERE FIXTURES OR TRIM COME IN CONTACT WIT WALL AND/OR FLOOR, MAKE JOINT WATERTIGHT WITH WHITE SILICONE BASE NON-HARDENING CAULKING COMPOUND, FINISHED IN NEAT MANNER. ATTACH FLOOR MOUNTED WATER CLOSETS TO FLOOR WITH LAG SCREWS. LEAD FLASHING SHALL NOT HOLD CLOSET IN PLACE. PROVIDE FIXED COVER ON HANDICAPPED WATER CLOSET TANK.
- 8.1. EXECUTION NO PIPE SHALL BE INSTALLED IN ANY PART OF WALL WHERE TEMPERATURE IS LESS THAN 5°C UNDER WINTER DESIGN CONDITIONS EXCEPT WHERE PIPING HAS BEEN INSTALLED FOR WINTER SHUTDOWN WITH BLOWOUT CONNECTIONS.
- 2. UPON COMPLETION, WATER PIPING SYSTEMS SHALL BE FLUSHED WITH WATER BEFORE INSTALLATION OF FIXTURES IN ORDER TO REMOVE ANY FOREIGN MATERIAL IN PIPING. PLUMBING FIXTURES AND EQUIPMENT SHALL BE THOROUGHLY CLEANED AND LEFT IN GOOD OPERATING CONDITION.
- GRADE DRAINAGE LINES MINIMUM 2%, PIPING 100MM (4") AND LARGER MAY BE GRADED AT 1% SLOPE. PLUG OR CAP PIPE AND FITTINGS TO KEEP OUT DEBRIS DURING CONSTRUCTION. LAY PIPE IN PROPER COMPACTED BEDDING MATERIAL (SAND INSIDE BUILDING, CLEAN GRAVEL OUTSIDE OF BUILDING) DO NOT LAY PIPE WHEN WATER IS PRESENT IN TRENCH. PROVIDE 1,500 PSI CONCRETE FOR BURIED LINES WITHIN 45 DEG. OF FOOTING
- 4. GRADE VENTS SO CONDENSATION WILL NOT FORM TRAP. 5. WHEREVER DISSIMILAR METALS ARE JOINED OR SUPPORTED, PIPING SHALL GALVANIC CORROSION. BRASS ADAPTERS AND VALVES ARE ACCEPTABLE FOR
- PIPE CONNECTIONS. 6. DOMESTIC HOT WATER HEATERS: PROVIDE AS SPECIFIED; ENSURE GOOD ACCESS TO HEATERS FOR SERVICING. PIPE RELIEF OUTLET FULLY TO DRAIN
- 7. WATER SPECIALTIES: PROVIDE BACK FLOW PREVENTERS AS SPECIFIED AND AS REQUIRED BY AUTHORITIES. PROVIDE TRAP PRIMERS TO ALL FLOOR DRAINS.
- 9. VENTILATION 9.1. DUCTWORK EXPOSED
- 1. DUCTWORK IN EXPOSED SPACES SHALL BE NAD KLIMA MODEL RDD THE HIGH INDUCTION DUCT DIFFUSER SHALL BE MADE OF 22 GA BRUSHED STEEL FOR DUCTS INFERIOR TO 508 MM IN DIAMETER, AND 20 GA FOR DUCTS WITH DIAMETER SUPERIOR OR EQUAL TO 508MM.
- 3. THE DUCT DIFFUSER SHALL BE GROOVED AT EACH END AND FITTED WITH A PVC GASKET TO INSURE A TIGHT SEAL BETWEEN SECTIONS. THE SECTIONS SHALL BE ASSEMBLED USING UNION SLEEVES.
- 4. STEEL REININFORCEMENTS SHALL BE HAVE TO BE INSTALLED INSIDE DUCTS OF MORE THAN 433 MM (17 INCHES) IN DIAMETER IN ORDER TO MAINTAIN IT'S THE DUCT DIFFUSER SHALL BE PAINTED WITH A TGIC FREE POLYESTER
- POWDER COAT. IT SHALL HAVE A SMOOTH SURFACE FOR EASY CLEANING. THE COLOUR SHALL BE CHOSEN BY THE ARCHITECT. THE PAINT OF THE DIFFUSER SHALL BE GUARANTEED AGAINST PEELING FOR A MINIMUM PERIOD OF 5 6. THE PATTERN FOR THE HOLES SHALL BE DETERMINED WITH THE HELP OF A
- COMPUTER PROGRAM THE BURR FREE HOLES SHALL BE MADE WITH A LASER CUTTER 8. WHEN REQUIRED, THE DUCT DIFFUSER SHALL BE EQUIPED WITH BALANCING
- PERFORATED DAMPER WITH A SELF BLOCKING MECHANISM ALLOWING FOR AIR OUTPUT OF BETWEEN 25% TO 100%. 9. THE UNION SLEEVES SHALL NOT EXCEED THE DIMENSIONS OF THE DUCT BY
- MORE THAN 3 MM, AND WILL BE ROUNDED TO FACILITATE CLEANING. 10. THE DUCT SHALL HAVE AS SMOOTH AS POSSIBLE SURFACE TO MAINTAIN AN ARCHITECTURAL APPEARANCE.
- 9.2. CONCEALED DUCTWORK: 1. DUCTWORK ABOVE CEILINGS OR CONCEALED SHALL BE GALVANIZED STEEL
- FABRICATED IN ACCORDANCE WITH RECENT SMACNA DUCT MANUALS AND ASHRAE HANDBOOKS. DUCTWORK SHALL MEET THE REQUIREMENTS OF NFPA 90A AND 91 AND CONFORM TO ALL APPLICABLE CODES. PRIOR TO FABRICATION OF DUCTWORK, CHECK ALL CEILING SPACE AND
- HEIGHTS FOR CONFLICTS WITH OTHER TRADES 3. THE MINIMUM SHEET METAL THICKNESS FOR LOW PRESSURE DUCTS,
- INCLUDING FITTINGS, ACCESS DOORS AND OTHER ACCESSORIES, SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" 4. DUCT SIZES ON DRAWINGS INDICATE INSIDE CLEAR DIMENSIONS. ADJUST
- ACTUAL SHEET METAL DIMENSIONS TO ACCOMMODATE ACOUSTICALLY LINED OR INTERNALLY INSULATED DUCTS. 5. ALL TRANSVERSE DUCT JOINTS SHALL BE SEALED (CLASS C SMACNA) WITH
- DUCT SEALANT. FLEXIBLE DUCTWORK SHALL BE EQUAL TO THERMAFLEX TYPE ST OR E.H. PRICE MK-10. 6. CONNECT DIFFUSERS TO DUCTS WITH 1.5 METER (5'-0") MAXIMUM LENGTH OF
- FLEXIBLE DUCT. HOLD IN PLACE WITH CAULKING COMPOUND AND STRAP OR CLAMP. FLEXIBLE DUCTWORK SHALL NOT FORM ANY DIPS, KINKS OR LOOPS. 7. PROVIDE RETURN AIR OPENINGS AND/OR INSULATED SOUND TRAPS WHERE INDICATED
- 8. BALANCE DAMPERS SHALL BE LOCKING QUADRANT TYPE ONLY PIN-TYPE BALANCING DAMPERS ARE NOT ACCEPTABLE.
- 9.2 AIR OUTLETS: PROVIDE AIR OUTLETS AS SPECIFIED ON THE DRAWINGS. 9.3 ENTHALPY RECOVERY VENTILATORS (ERV): 1. ACCEPTABLE MANUFACTURERS: RENEWAIRE, NU-AIR, ALDES, LIFEBREATH,
- VANEE, LOSSNAY (MITS) 2. ECM BLOWER MOTORS RATED FOR CONTINUOUS OPERATION (PSC MOTORS NOT ACCEPTABLE), DRAIN PAN AND CONDENSATE DRAIN CONNECTION. AUTOMATIC FAN CYCLED DEFROST, INTEGRATED BACKDRAFT DAMPERS, UNIT
- SHALL INCLUDE OPTION FOR FAN-COIL INTERLOCK AND DUAL-SPEED SWITCH OPERATION. 3. POLY HEAT EXCHANGER CORE SHALL BE WASHABLE AND REMOVABLE WITH 10 YEAR WARRANTY.
- 9.1. UTILITY EXHAUST FANS: PROVIDE FANS AS SPECIFIED ON THE DRAWINGS. FANS TO BE AMCA RATED WITH NON-OVERLOADING POWER CHARACTERISTIC,

- STABLE PRESSURE CURVE AND SELF ALIGNING BEARINGS 9.2. THE AIR HVAC SYSTEM SHALL OPERATE FOR A MINIMUM OF 48 CONSECUTIVE HOURS PRIOR TO TURNOVER OF THE EQUIPMENT. 9.3. ON COMPLETION OF CONSTRUCTION, INCLUDE REPLACEMENT OF FILTERS
- FOR ALL HVAC SERVING THE SPACE. 9.4. DUCT CLEANING: THE CONTRACTOR SHALL PROTECT ALL EOUIPMENT AND OPEN- ENDED DUCTS THROUGHOUT CONSTRUCTION. UPON COMPLETION, DUCT CLEANLINESS WILL BE REVIEWED BY CONSULTANT ON SITE. IF DUCTWORK CLEANLINESS IS NOT TO THE CONSULTANT'S SATISFACTION. THE
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENGAGING A PROFESSIONAL DUCT CLEANING CONTRACTOR TO POWER CLEAN ALL DUCTWORK WITHIN THE SPACE, AT NO ADDITIONAL COST TO THE OWNER. 10. HEAT PUMP AND SPLIT-TYPE DIRECT EXPANSION COOLING SYSTEMS
- 10.1. GENERAL 1. PROVIDE FOR COMPLETE AND OPERATIONAL SPLIT TYPE HEAT PUMP/AIR CONDITIONING SYSTEMS AS INDICATED ON DRAWINGS AND EQUIPMENT SCHEDULES. COMPLY WITH APPLICABLE CODES, LAWS AND REGULATIONS. CONFORM TO CSA-B52, CODE FOR MECHANICAL REFRIGERATION AND CSA-B131.5, CODE FOR REFRIGERANT PIPING. MATCH OUTDOOR AND
- AND COMMUNICATION SYSTEM BY ONE MANUFACTURER. DO NOT MIX MANUFACTURERS OF INDOOR AND OUTDOOR UNITS. PROVIDE PROPER OPERATION OF SAFETY CONTROLS AND AUTOMATIC CONTROLS NOT PROVIDED BY OTHERS.
- 2. WARRANTY: EXTENDED 5-YEAR PARTS-ONLY WARRANTY ON ALL COMPRESSORS. "DESIGN-BUILD" DELIVERY OF REFRIGERANT PIPING SYSTEMS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING SITE CONDITIONS COORDINATING WITH WORK BY OTHER TRADES. AND SIZING PIPING AND PROPOSING ROUTING THROUGH THE NEW PORTIONS OF THE BUILDING TO
- EQUIPMENT MANUFACTURER. 10.1. PRODUCTS
- 1. ACCEPTABLE MANUFACTURERS: ACCEPTABLE MANUFACTURERS: DAIKIN, LG, MITSUBISHI REFRIGERANT: R410A. 3. ALL EQUIPMENT SHALL COMPLY WITH THE MINIMUM EFFICIENCY
- REQUIREMENTS OF ASHRAF 90 1-2010 FOR THE APPLICABLE FOUIPMENT TYPE AND CAPACITY RANGES PERFORMANCE SHALL BE RATED IN ACCORDANCE WITH AHRI STANDARDS WITH RESULTS PUBLISHED FOR PUBLIC REVIEW. ALL EQUIPMENT SHALL BE FACTORY ASSEMBLED, WIRED AND RUN TESTED. INDOOR UNIT AND REFRIGERANT PIPES SHALL BE CHARGED WITH
- DEHYDRATED NITROGEN GAS BEFORE SHIPMENT FROM THE FACTORY. 4. REFRIGERANT PIPING AND ACCESSORIES
 - COPPER, MANUFACTURED TO ASME STANDARDS. MAKE JOINTS WITH BRAZED COPPER-TO-COPPER FITTINGS. DO NO
 - USE CAST FITTINGS
 - AND BALL TYPE.
 - PROVIDE SAFETY VALVES SIZED TO CODE. PROVIDE SERVICE VALVES ON SUCTION AND DISCHARGE OF
- COMPRESSORS. INDOOR UNITS: PROVIDE UNITS SHALL OF THE CONFIGURATION, AIRFLOW CAPACITY, AND STATIC PRESSURE SHOWN ON DRAWINGS.
- SILVER ALLOY, WITH HYDROPHILIC COATING. COILS SHALL BE
- FACTORY INSTALLED IN UNIT. DYNAMICALLY BALANCED WITH INHERENT PROTECTION
- OPERATION. UNIT SHALL BE FITTED WITH LINEAR ELECTRONIC EXPANSION VALVE. INTEGRATED CONTROL SHALL INCLUDE SELF-DIAGNOSTIC FUNCTION
- FACTORY INSTALLED RETURN AIR FILTER ON REAR OF UNI DUCTLESS UNITS SHALL HAVE A WHITE FINISH, MANUAL
- INTEGRAL RETURN AIR SENSOR. OUTDOOR UNITS GUARD TO PREVENT CONTACT WITH MOVING PARTS.
 - OUTDOOR UNIT SHALL HAVE A SOUND RATING NO HIGHER THAN 54 AND CRANK CASE HEATER
 - CAPABLE OF OPERATING IN OUTSIDE AMBIENT TEMPERATURES ADDITIONAL LOW AMBIENT CONTROLS. CAPABLE OF OPERATING IN OUTSIDE AMBIENT TEMPERATURES
 - BETWEEN -25°C (-13F) AND 23°C (75°F) IN HEATING MODE WITHOUT ADDITIONAL LOW AMBIENT CONTROLS. TO EACH INDOOR UNIT INDEPENDENTLY (MULTI-SPLIT SYSTEMS

CHARGE REQUIRED.

POWER, ETC.

MANUALS.

CYCLES

CYCLING

10.1. EXECUTION

CONDENSING UNIT.

REFRIGERANT SYSTEM

MINIMUM PRESSURE DROPS

REFRIGERANT SCHEMATIC

CLEARANCE REQUIREMENTS.

POWER REQUIREMENTS

INDOOR UNITS WITH OPERATING CONTROLS, ELECTRONIC DIGITAL CONTROLS

SUIT EQUIPMENT LOCATIONS SHOWN ON MECHANICAL PLANS IN ACCORDANCE WITH RECOMMENDATIONS AND LIMITATIONS ADVISED BY THE

PIPING SHALL BE BRIGHT ANNEALED REFRIGERANT GRADE ACR

SHUT-OFF VALVES SHALL BE REFRIGERANT GRADE ANGLE. GLOBE

SILVER BRAZED JOINTS USING COPPER-PHOSPHOROUS ALLOY WITH MELTING POINT BETWEEN 1,112°F (600°C) AND 1,472°F (800°C).

INDOOR COILS SHALL BE NONFERROUS CONSTRUCTION, COPPER SEAMLESS TUBING FORCE FITTED TO ALUMINUM CONTINUOUS FLAT PLATE FINS. TUBE JOINTS SHALL BE BRAZED WITH PHOS-COPPER OR

CONDENSATE PAN. INCLUDE INTEGRAL CONDENSATE PUMP CAPABLE OF 750mm (29.5") LIFT WHERE NOTED ON DRAWINGS. VARIABLE SPEED DIRECT DRIVE BLOWER MOTOR. STATICALLY AND PERMANENTLY LUBRICATED BEARINGS. MOUNTED FOR OUIET

FUNCTION, 3-MINUTE TIME DELAY MECHANISM, AND AUTO RESTART

DUCTED UNITS SHALL HAVE CABINET FABRICATED OF GALVANIZED STEEL, INSULATED, WITH REMOVABLE ACCESS PANELS, WITH

ADJUSTABLE GUIDE VANE, AND MOTORIZED AIR SWEEP LOUVER FOR UNIFORM AIR DISTRIBUTION. REMOVABLE, WASHABLE FILTER.

ONE DIRECT DRIVE, VARIABLE SPEED PROPELLER TYPE FAN. RAISED

HIGH PRESSURE SAFETY SWITCH, FUSE, OVER-CURRENT PROTECTION

BETWEEN -5°C (23°F) TO 46°C (115°F) IN COOLING MODE WITHOUT

ELECTRONIC EXPANSION VALVES TO CONTROL REFRIGERANT FLOW

NONFERROUS COIL CONSTRUCTION WITH LANCED OR CORRUGATED ALUMINUM PLATE FINS ON COPPER TUBING, WITH A HYDROPHILIC/PROTECTIVE COATING TO REDUCE CORROSION AND PROMOTE MOISTURE SHEDDING.

INVERTER DRIVEN DC COMPRESSOR, TWIN BLDC ROTARY TYPE WITH CRANKCASE HEATER AND THERMAL OVERLOAD PROTECTION, MOUNTED TO AVOID THE TRANSMISSION OF VIBRATION.

7. SHOP DRAWINGS: PROVIDE SUBMITTALS INCLUDING: REFRIGERANT PIPING PLANS INCLUDING PROPOSED SIZES AND ROUTING TO SUIT EQUIPMENT LOCATIONS SHOWN ON

MECHANICAL PLANS IN ACCORDANCE WITH RECOMMENDATION AND LIMITATIONS ADVISED BY THE EQUIPMENT MANUFACTURER INCLUDE PIPING LENGTH ESTIMATE, AND TOTAL REFRIGERANT

FAN PERFORMANCE SHOWING DESIGN OPERATIONS POINT, R/MIN,

DIMENSIONAL DATA INCLUDING WEIGHTS, SERVICE SPACE AND

ELECTRICAL CIRCUIT DIAGRAMS INCLUDING FIELD-WIRED COMPONENTS AND REQUIREMENTS FOR SPECIFIC INSTALLATION. ELECTRICAL VOLTAGES, PHASE AND POWER REQUIREMENTS COMPLETE INSTALLATION INSTRUCTIONS.

CONTROL OPTIONS AND ACCESSORIES, AND CONTROL WIRING

PROGRAMMING INSTRUCTIONS FOR INCLUSION IN MAINTENANCE ACOUSTIC SOUND PRESSURE LEVEL DATA FOR OUTDOOR

WARRANTY INFORMATION, INCLUDING CONFIRMATION OF EXTENDED WARRANTY FOR COMPRESSORS.

TESTING, DEHYDRATION, CHARGING AND START-UP OF

1. REFRIGERANT PIPING: INSTALLATION SHALL ENSURE: COMPRESSOR OIL AND LIQUID REFRIGERANT RETURN TO

RESTRICTED REFRIGERANT MIGRATION DURING INOPERATIVE

COMPRESSOR UNDER LOAD WITHOUT HARM TO COMPRESSOR

ACCESSORIES AND PIPING PREVENT EXCESSIVE COMPRESSOR

PIPE ROUTING AND ISOLATION TO AVOID LINE BREAKAGE OR

EXCESSIVE VIBRATION AND SOUND TRANSMISSION TO CONDITIONED SPACE

- MAINTENANCE OF CLEAN AND DRY SYSTEM 2. PROVIDE SUBMITTAL DRAWINGS OF THE REFRIGERANT PIPE WORK LAYOUT, INCLUDING ALL PIPE SIZING AND POSITIONS OF BOXES, ETC. 3. ALL INDOOR PIPING SHALL BE CONCEALED UNLESS OTHERWISE NOTED OR
- ACCEPTED BY THE CONSULTANT. SPECIFICALLY INDICATE ON SHOP DRAWING PLANS WHERE REFRIGERANT PIPING CANNOT BE CONCEALED, OR IS IMPRACTICAL TO CONCEAL, AND INCLUDE PREMANUFACTURED SHROUD PRODUCTS WHERE PIPING MUST BE EXPOSED. 4 ALL PIPE WORK SHALL BE CLEAN DEHYDRATED AND CHARGED WITH INERT
- GAS AND SEALED FOR SHIPMENT FROM FACTORY. PIPE WORK SHALL BE STORED IN DRY CONDITIONS: END CAPS MUST BE USED. WHERE SPECIALIST PIPE WORK FITTINGS BRANCHING OFF TO THE INDOOR FAN COIL UNITS ARE NECESSARY, THESE BRANCHES SHALL BE SUPPLIED BY THE UNIT MANUFACTURER. NO OTHER FITTINGS ARE ACCEPTABLE. THE POSITION OF THE IOINTS SHALL BE STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION. REFRIGERANT PIPE WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL REFRIGERATION PIPE WORK SHALL BE SUPPORTED ON GALVANIZED CABLE TRAY, WIDTH TO ACCOMMODATE PIPE WORK AND CONTROLS CABLE. PIPE WORK SUPPORTS SHALL BE PROVIDED THROUGH ENTIRE LENGTH ACCORDING TO GOOD PRACTICE. ON HORIZONTAL PIPE WORK, THE BRACKETING SHALL ALLOW PIPE MOVEMENT DUE TO CONTRACTION AND EXPANSION. VERTICAL PIPE WORK SHALL BE BRACKETED AT NO MORE THAN 40" (1000 MM) CENTRES AND THE HORIZONTAL AT NO MORE THAN 60" (1,500 MM) CENTRES. THE PROVISIONS OF SPECIAL SUPPORTS SHALL BE INCORPORATED IN DROP RODS OR PIPE CLIPS IN PIPE WORK SUPPORTS. PROVIDE SUITABLE ISOLATION VALVING AS REQUIRED FOR THE SYSTEM CONFIGURATION TO ENABLE MINIMIZED RAIN/REFILLING OF
- REFRIGERANT 5. ALL INSTALLED PIPE WORK LENGTHS SHALL BE ACCURATELY MEASURED AND RECORDED ON THE FORM PROVIDED ON THE REMOVABLE ACCESS PANEL WITHIN THE OUTDOOR UNITS AND THE OPERATING AND MAINTENANCE MANUALS (THIS INFORMATION IS REQUIRED FOR THE ACCURATE CALCULATION OF THE REFRIGERANT CHARGE FOR THE SYSTEM).
- 6 THE PRESSURE TESTING AND EVACUATION SHALL BE CARRIED OUT STRICTLY ACCORDING TO THE MANUFACTURER'S SPECIFICATION. 7. THE FINAL REFRIGERANT CHARGING AND THE COMMISSIONING OF THE SYSTEM SHALL BE CARRIED OUT BY THE SPECIALIST REFRIGERATION
- SUB-CONTRACTOR AUTHORIZED BY THE MANUFACTURER. CONTRACTOR SHALL PROVIDE A VERIFIED AND SUBMITTED COMMISSIONING REPORT TO THE CONSULTANT VERIFYING THAT THE SYSTEM HAS MET THE REQUIREMENTS FOR PROPER INSTALLATION, AND FUNCTION. 3. ALL REFRIGERANT PIPE WORK SHALL BE INSULATED WITH ARMAFLEX CLASS
- 'O" INSULATION, 1/2" (12 MM) THICK, AS MANUFACTURED BY ARMSTRONG NDUSTRIES. BOTH REFRIGERANT LINES FROM THE OUTDOOR UNIT TO INDOOR UNITS SHALL BE INSULATED. THE JOINTS OR HEADERS SHALL BE INSULATED WITH THE PRE-FORMED INSULATION SUPPLIED WITH THESE FITTINGS. INSULATION EXPOSED TO ATMOSPHERIC CONDITIONS SHALL BE PROTECTED WITH TWO COATS OF SPECIAL ARMSTRONG ADHESIVE AND CARE SHOULD BE TAKEN THAT EVERY PART OF THE INSULATION IS SEALED TO MAINTAIN A VAPOUR BARRIER. PROVIDE METAL CLADDING FINISH FOR PIPING EXPOSED OUTDOORS.
- 9. AT COMPLETION OF INSTALLATION. PRESSURIZE SYSTEM WITH NITROGEN OR REFRIGERANT AND CHECK FOR LEAKS. REPAIR LEAKS AND RE-TEST. DEHYDRATE SYSTEM AND CHARGE WITH REFRIGERANT. START-UP SYSTEM AND CHECK OPERATION.
- 10. IF INSTALLATION IS COMPLETED IN WINTER SEASON, PUMP DOWN REFRIGERANT WHERE APPLICABLE AND REPEAT PROCEDURE AT START OF NEXT COOLING SEASON. 11. CARRY OUT CHECK USING DETAILED CHECK SHEETS PROVIDED BY EQUIPMENT
- MANUFACTURER. INCLUDE COMPLETED AND SIGNED CHECKLISTS IN OPERATING AND MAINTENANCE MANUALS. 12. PROVIDE DOCUMENTATION FOR PROPER OPERATION AND MAINTENANCE OF
- SYSTEM. PROVIDE ON-SITE INSTRUCTION PERIOD FOR OWNER'S PERSONNEL WITH CONSULTANT'S REPRESENTATIVE.
- 11. CONTROLS 11.1. ACCEPTABLE CONTROLS SUBCONTRACTORS: JOHNSON CONTROLS HONEYWELL, SIEMENS, ALERTON, AUTOMATED LOGIC, SCHNEIDER, ESC/DELTA, MITSUBISHI, LG, DIAKIN
- 11.2. THERMOSTATS: MOUNT THERMOSTATS AND TEMPERATURE SENSORS AS INDICATED ON DRAWINGS. ALL TEMPERATURE SENSORS AND THERMOSTATS SHALL BE WALL OR COLUMN MOUNTED AT 1200MM (48") ABOVE FLOOR TO MEET AODA REQUIREMENTS UNI ESS SPECIFICALLY NOTED OTHERWISE. COORDINATE FINAL MOUNTING LOCATIONS WITH ARCHITECT AND CONSULTANT ON SITE BEFORE ROUGH-IN.
- 11.3. ERV'S TO OPERATE VIA LOCAL WALL MOUNTED CONTROLLER WITH TIME CLOCK WHICH IS ADJUSTABLE TO THE OPERATING HOURS OF THE BUILDING. 11.4. ELECTRIC DUCT HEATER ASSOCIATED WITH ERV-1 TO OPERATE BASED ON DUCT MOUNTED THERMOSTAT TO ENSURE SUPPLY AIR TEMPERATURE AT
- 21°C. 11.5 LOCAL ELECTRIC HEATERS & RADIANT PANELS TO OPERATE RASED ON LOCAL WALL MOUNTED THERMOSTATS TO 18°C (ADJUSTABLE). CONTRACTOR TO COORDINATE EXACT THERMOSTAT LOCATION WITH ARCHITECT.
- 11.6. SPLIT AC SYSTEM TO OPERATE BASED ON LOCAL WALL MOUNTED CONTROLLERS IN ORDER TO SATISFY HEATING/COOLING SETPOINTS. 11.7 GARBAGE EXHAUST FAN AND MAKE UP AIR DAMPER TO OPERATE BASED ON CO CONTROL, UPON DETECTION OF CO LEVELS AT 50PPM (ADJUSTABLE) OR ABOVE MOTORIZED DAMPERS OPEN AND EXHAUST FAN STARTS UNTIL LEVELS
- HAVE DROPPED BELOW 50PPM. EXHAUST FAN TO PROVE MOTORIZED DAMPERS OPEN PRIOR TO STARTING. 11.8. ELECTRIC DOMESTIC HOT WATER HEATER TO OPERATE BASED ON OWN INTERNAL CONTROLS TO ENSURE STORAGE AT 60°C.

12. FIRE PROTECTION 12.1. FIRE EXTINGUISHER

. PROVIDE NEW PORTABLE-TYPE ABC FIRE EXTINGUISHERS AS INDICATED ON DRAWINGS, AND TO SUIT THE REQUIREMENTS OF NFPA 10 AND/OR THE LOCAL AUTHORITIES HAVING JURISDICTION AND FIRE DEPARTMENT.

ONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND TIONS ON THE JOB DO NOT SCALE DRAWINGS.

LL DRAWING SPECIFICATIONS AND RELATED DOCUENTS ARE THE COPYRIGHT PROPERTY OF THE RCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS ECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

HIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE ARCHITECT.

4	2025-04-11	ISSUED FOR TENDER	
3	2024-09-18	ISSUED FOR BUILDING PERMIT	
2	2024-08-16	ISSUED FOR 100% COSTING	
1	2023-01-31	ISSUED FOR 50% CD	
No.	Date	Description	
Issue	Issue Record		



BLUFFER'S PARK EAST WASHROOM

1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

MECHANICAL SPECIFICATIONS

Print Date	2025-04-1
Scale	NONE
Project No.	0010052.0
Drawn by	MD
Checked by	SF

	POWER SYMBOL SCHEDULE	FI	RE ALARM SYMBOL SCHEDULE		LIGHTING SYMBOL SCHEDULE		SECURITY	SYMBOL SCHEDULE
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL		DESCRIPTION
₽ ₽	15 AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT DUPLEX RECEPTACLE		DUCT SMOKE DETECTOR - PHOTOELECTRIC TYPE		SURFACE / RECESSED LUMINAIRE, LETTER DENOTES TYPE.	DC	DOOR CO	NTACT - ROUGH IN
de de	15 AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT GROUND FAULT CIRCUIT INTERRUPTER (GFI) DUPLEX	•	SMOKE DETECTOR	B - 7a B - 7a	CIRCUITING DESIGNATION FOR ALL LIGHTS AND RECEPTACLES)	ODC	OVERHEA	D DOOR CONTACT - ROUGH IN
₩ ₩	15 AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT ISOLATED GROUND DUPLEX RECEPTACLE	8	HEAT DETECTOR (F DENOTES FIXED TEMP (94°c)		WALL MOUNTED LUMINAIRE.	CR	CARD REA	ADER - ROUGH IN
₩ ₩	15 AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT ARC FAULT CIRCUIT INTERRUPTER DUPLED RECEPTACLE	S	CEILING MOUNTED HORN SPEAKER	$^{A} \bigcirc ^{A} \oslash \odot$	SURFACE / RECESSED / SUSPENDED CEILING LUMINAIRE, ROUND SHAPE.	R	CCTV	
da da	15 AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT SWITCHED DUPLEX RECEPTACLE	 ©	WALL MOUNTED HORN SPEAKER	٨Q	WALL MOUNTED LUMINAIRE, ROUND SHAPE.	PB	PUSH BUT	ITON / DOOR OPERATOR - ROUGH IN
\$ #	15 AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT QUAD RECEPTACLE	 	CEILING MOUNTED HORN SPEAKER / STROBE		SURFACE / RECESSED / SUSPENDED CEILING LUMINAIRE, SQUARE SHAPE.	ES	ELECTRIC	DOOR STRIKE - ROUGH IN
* *	15 AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT GROUND FAULT CIRCUIT INTERRUPTER (GFI) QUAD	 Ø	WALL MOUNTED HORN SPEAKER / STROBE	^모	WALL MOUNTED LUMINAIRE, SQUARE SHAPE.	REX	REQUEST	TO EXIT DEVICE - ROUGH IN
¢ ¢	15 AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT SINGLE RECEPTACLE	6	ALARM SIGNALLING DEVICE - BELL		EMERGENCY LIGHT.	ML	MAG-LOC	К
Ö Ø	20 AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT T-SLOT DUPLEX RECEPTACLE		MANUAL PULL STATION		STRIP LUMINAIRE.	EH	ELECTRON DOOR SCH	NIC DOOR HARDWARE. REFER ARCHITECTURAL HEDULE FOR DETAILS.
₩₩	20 AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT GROUND FAULT CIRCUIT INTERRUPTER (GFI) T-SLOT DUPLEX	 ▼	FIRE ALARM HORN		TRACK LIGHTING, TRIANGLE INDICATES HEAD.	DU	INTERCO	M/DURESS STATION
de de	208V WALL MOUNT / COUNTER HEIGHT RECEPTACLE		BUZZER WITH 10 MIN SILENCE PERIOD		SINGLE LUMINAIRE EXTERIOR LAMP STANDARD	WR	WIRELESS	S RECIEVER
۲	EQUIPMENT CONNECTION AS NOTED ON PLAN	$\overline{\mathbf{\Theta}}$	MINI FIRE ALARM HORN		DOUBLE LUMINAIRE EXTERIOR LAMP STANDARD		ELECTRIF	IED LOCKSET - ROUGH IN
۵	SPECIAL RECEPTACLE AS NOTED ON PLAN	X	CEILING MOUNTED STROBE LIGHT / HORN UNIT			C	OMMUNIC	ATION SYMBOL SCHEDULE
C' E'	NON-FUSED DISCONNECT / FUSED DISCONNECT	<u> </u>	WALL MOUNTED STROBE LIGHT / HORN UNIT			SYMBOL		DESCRIPTION
JB	JUNCTION BOX	X	DOOR HOLDER		(LETTER DENOTES TYPE) CEILING MOUNTED EXIT LIGHT FIXTURE LINES ON BOTH	▼	TELEPHO P - PAY PH	NE OUTLET, HONE
ŧ	GROUND CONNECTION	FACP	FIRE ALARM CONTROL PANEL	- ≌		▽	DATA OUT	rlet
+	GROUND ROD	CACF	FIRE ALARM CENTRAL ALARM CONTROL FACILITY		EGRESS DIRECTION. ARROW ON BOTH SIDES INDICATE DOUBLE SIDE EXIT SIGN	4	CATV OUT	TLET (CABLE TELEVISION)
Ū	THERMOSTAT	ANN	REMOTE ANNUNCIATOR PANEL		CEILING MOUNTED EXIT LIGHT WITH TWO EMERGENCY LIGHTS AND INTEGRAL BATTERY COMBO LINIT ARROW	V _{D/V}	COMBINA #D = No. C	TION COMMUNICATION - TEL/DATA OUTLET, DF DATA CABLES, #V = No. OF VOICE CABLES
-	SURFACE MOUNTED PANEL BOARD	 X	CEILING MOUNTED STROBE LIGHT UNIT	-	DENOTES EGRESS DIRECTION.	0	SPECIAL F	PURPOSE COMMUNICATION OUTLET
	RECESSED PANEL BOARD	<u>~</u>	WALL MOUNTED STROBE LIGHT UNIT		LIGHTS AND INTEGRAL BATTERY COMBO UNIT, ARROW DENOTES EGRESS DIRECTION. ARROW ON BOTH SIDE	WAP	WIRELESS	S ACCESS POINT
	SURFACE RELAY PANEL		FIREMAN HANDSET		INDICATE DOUBLE SIDE EXIT SIGN	PP	COMMUN	ICATION PATCH PANEL WITH RACK
- -	RECESSED RELAY PANEL		ADDRESSABLE CONTROL OR SIGNALLING MODULE	₩	EMERGENCY REMOTE LIGHT HEADS	DR	COMMUN	ICATION DATA RACK
(#)	EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE (# DENOTES UNIT IDENTIFICATION)		ADDRESSABLE MONITORING MODUL F	┥₩			INTERCO	M STATION
(#)	KEYED NOTE TAG, REFER TO KEYED NOTES (# DENOTES KEYED NOTE NUMBER)		ISOLATION MODULE	1	3 - WAY 4 - WAY		SOUND SYS	STEM SYMBOL SCHEDULE
\bigcirc	MOTOR CONNECTION	FOI	END OF LINE RESISTOR	\$ ³ _{2G}	D - DIMMER F - FAN SWITCH			DESCRIPTION
ģ	ELECTRICAL GENERATOR	(PS)	PRESSURE SWITCH	-	K - KEY OPERATED P - C/W PILOT LIGHT V - VARIABI F SPEED	(Å)		SPEAKER - CEILING MOUNTED
π	GROUND REFERENCE BUSBAR	 FS	WATER FLOW SWITCH	 	#G - NUMBER OF GANGS			SPEAKER - WALL MOUNTED
[ф] _	FLOOR BOX OUTLET (OUTLET WILL BE DENOTED BY SYMBOL WITHIN)		GATE VALVE TAMPER ALARM SWITCH			MIC		MICROPHONE
G G	(G DENOTES GANG QUANTITY)	<u> </u>	SUPERVISORY VALVE			X		SOUND MASKING SPEAKER
€G	(OUTLET WILL BE DENOTED BY SYMBOL WITHIN) (G DENOTES GANG QUANTITY)	 	CARBON MONOXIDE DETECTOR		SENSOR	PS		
æ	CEILING MOUNTED OUTLET (OUTLET WILL BE DENOTED BY SYMBOL WITHIN)	<u> </u>	SMOKE ALARM (LINE VOLTAGE)		SENSOR	ALS		
G	(G DENOTES GANG QUANTITY)	¥ A			PHOTOCELL			VOLUME CONTROL
(FBH - #)	SNOW MELTING SYSTEM					TS		TOUCH SCREEN
	(# DENOTES UNIT IDENTIFICATION)	SYMBOL	DESCRIPTION		SEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR		A	BBREVIATIONS
	WIREMOLD	ب ۱۲	BREAKER	<u></u>	WALL MOUNTED LINE VOLTAGE OCCUPANCY SENSOR			
	HEAT TRACE			65	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR	A AMPER AT AMPER		REF REFRIGERATOR WM WASHING MACHINE
	TRANSFORMER	\triangle	CAPACITOR BANK	<u>(</u> S)	WALL MOUNTED LOW VOLTAGE OCCUPANCY	AF AMPER AFF ABOVE AWG AMFRI	E FINISHED F CAN WIRF G	LOOR MCB MAIN CIRCUIT BREAKER UIDE MH MOLINTING HEIGHT
	TELECOMMUNICATIONS CABINET			┟──┴──	JENJUK	C CONDU CACF CENTR	JIT RAL ALARM C	MLO MAIN LUGS ONLY CONTROL MOCP MAXIMUM OVERCURRENT
P	PULL BOX			4		CB CIRCU	TY - FIRE ALA IT BREAKER IT	ARM PROTECTION MTG MOUNTING
EV	ELECTRIC VEHICLE CHARGING STATION			4		DO DOOR EC EMPTY	OPERATOR CONDUIT	N NEUTRAL P POLE OR PHASE PNL PANELBOARD
DEV	DUAL CONNECT ELECTRIC VEHICLE CHARGING STATION			4		EM DEVICI EMERC		QTY QUANTITY UIT REC RECESSED
VSD	VARIABLE SPEED DRIVE			4		FLA FULL L FSS FUSED	NG TO REMA	NIN RL RELOCATE EXISTING DEVICE /ITCH RM REMOVE EXISTING
		 	CONTACTOR	4		GFI, GFCI GROUI GND GROUI	ND FAULT IN	TERRUPTER DEVICE RR REMOVE AND REPLACE
		<u> </u>	FUSE	4		HP HORSE IG ISOLAT	EPOWER FED GROUNE	WITH NEW DEVICE V VOLTAGE / VOLTS
				1		KVA KILOW KVA KILOV MCA MINIMI	OLT AMPERE	W WATTS ES WP WEATHERPROOF AMPACITY XFMR TRANSFORMER
			PANEL					RH RANGEHOOD MW MICROWAVE
		—	RECTIFIER	1				DW DISHWASHER
		•/	DISCONNECT SWITCH	1				
		·	TRANSFER SWITCH	1				
		<u> </u>	TRANSFORMER CT	1				
		<u>چ</u>	TRANSFORMER ΔΥ	1				
		+"	BUS	4				
		«Դ»	DRAW OUT BREAKER	1				
		UPS	UNINTERRUPTED POWER SUPPLY	1				
		TVSS	TRANSIENT VOLTAGE SURGE SUPRESSION	1				
		<u> </u>	FUSEABLE SWITCH	1				
			FUSE DISCONNECT	1				

DRAWING NO.	DRAWING NAME	SCALE
E001	ELECTRICAL LEGEND, GENERAL NOTES AND DRAWING LIST	NTS
E100A	ELECTRICAL SITE PLAN - NORTH	1:200
E100B	ELECTRICAL SITE PLAN - SOUTH	1:200
E101	GROUND FLOOR POWER & SYSTEMS PLAN	1:50
E102	ROOF POWER & SYSTEMS PLAN	1:50
E201	GROUND FLOOR LIGHTING PLAN	1:50
E301	ELECTRICAL SINGLE LINE DIAGRAM & SCHEMATICS	NTS
E401	ELECTRICAL SCHEDULES	NTS
E501	ELECTRICAL DETAILS	NTS
E601	ELECTRICAL SPECIFICATIONS	NTS

- GENERAL NOTES: ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS, AND SPECIFICATIONS. BEFORE SUBMITTING ANY PRICE, THE CONTRACTOR SHALL VISIT THE SITE AS IDENTIFIED IN THE GENERAL CONTRACT CONDITIONS AND EXAMINE THE FOLLOWING:
- ORDER TO ACHIEVE THE INTENT OF THE SCOPE OF WORK IDENTIFIED IN THESE DOCUMENTS.
- BUILDING HAS EXPOSED UNDERSIDE OF ROOF DECK CONDITIONS IN MANY AREAS. CONTRACTOR TO SUBMIT CONDUIT ROUTING DRAWINGS FOR REVIEW FOR ANY AREAS WHERE IT IS NOT POSSIBLE TO CONCEAL THE CONDUIT.
- MERELY A GUIDE AS TO THE ORIENTATION OF EQUIPMENT THAT IS REQUIRE TO ASSIST THE CONTRACTOR WITH THE INSTALLATIONS.
- ASSEMBLY. ANY SURFACES OR FINISHES DAMAGED AS A RESULT OF ELECTRICAL ALTERATIONS OR INSTALLATION SHALL BE REPAIRED.
- ELECTRICAL CONTRACTOR SHALL ENSURE ACCESS TO ALL JUNCTION BOXES ARE NOT IMPEDED.
- BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE OWNER A SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- OWNER, ARCHITECT, AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ENGINEER.
- COMPLETE INSTALLATION.
- CODE REQUIREMENTS.
- 16. PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING OF WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER
- FOR REVIEW PRIOR TO PURCHASE. 7. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND

DRAWING NOTES:

- INDICATED ON THE DRAWINGS, SIZED IN ACCORDANCE WITH ONTARIO ELECTRICAL CODE.
- AND IN ACCORDANCE WITH THE BUILDINGS OWNERS' STANDARDS.
- PRIOR TO INSTALLING THE EQUIPMENT.
- WHEN DISCREPANCIES EXIST BETWEEN DRAWINGS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, THE MORE RESTRICTIVE, MOST EXPENSIVE ALTERNATIVES SHOULD APPLY.

REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTRATED BY ALL AUTHORITIES HAVING JURISDICTION. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER TRADES

3.1. CHECK THE EXISTING CONDITIONS AND IDENTIFY ANY LIMITATIONS 3.2. EXAMINE THE PROPOSED WORK AGAINST THE EXISTING CONDITIONS. AFTER EXAMINING ALL OF THE ABOVE AGAINST THE PLANS, SPECIFICATIONS, AND TERMS OF CONTRACT, THE CONTRACTOR MUST SATISFY THEMSELVES THAT THE PROPOSED WORK CAN BE CARRIED OUT, OR SHALL BE MODIFIED AT NO EXTRA COST TO THE OWNER IN

3.3. IF THE CONTRACTOR BELIEVES LIMITATIONS AND/OR DISCREPANCIES EXIST, THEY MUST THEN SUBMIT IN WRITING TO THE PRIME CONSULTANT IDENTIFYING THEM. CLARIFICATION WILL BE ISSUED.

5. DETAILS ON ELECTRICAL DRAWINGS ARE INTENDED TO BE FOR GENERAL ARRANGEMENT ONLY. DETAILS DO NOT SHOW ALL COMPONENTS, BUT ARE

THE CONTRACTOR SHALL MAKE GOOD AND MAINTAIN THE FIRE RATINGS OF

JUNCTION BOXES ARE TO BE IDENTIFIED AS PER SPECIFICATIONS.

CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION

OBTAIN AND PAY FOR ALL PERMITS, LICENSES, AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSAR' FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE

. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL

2. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A

3. PROVIDE ALL REQUIRED "CUTTING , PATCHING, BACK FILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.

14. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER ONTARIO ELECTRICAL

15. CONDUIT AND WIRING SHOWN ON THESE PLANS ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.

MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER ELECTRICAL CODE.

THE ELECTRICAL DRAWINGS SHALL BE READ AS ONE UNIT INCLUDING PLANS, SCHEMATIC DIAGRAMS AND MISCELLANEOUS DETAILS. ALL ELECTRICAL SYSTEMS SHALL BE GROUNDED: GROUNDING TO INCLUDE A DEDICATED CONDUCTOR FOR ALL CIRCUITS 15AMPS AND LARGER AND AS

ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMEN LIKE MANNER . CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENGINEERS' REVIEW, FOR ALL EQUIPMENT AND MATERIAL FURNISHED UNDER THIS SECTION OF WORK. VERIFY EXACT POWER REQUIREMENT WITH PROVIDER OF THE EQUIPMENT

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND CONDITIONS ON THE JOB. DO NOT SCALE DRAWINGS.

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4	2025-04-11	ISSUED FOR TENDER
3	2024-09-18	ISSUED FOR BUILDING PERMIT
2	2024-08-16	ISSUED FOR 100% COSTING
1	2023-01-31	ISSUED FOR 50% CD
Mo	Date	Description



BLUFFER'S PARK EAST WASHROOM

1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

ELECTRICAL LEGEND, DRAWING LIST, GENERAL NOTES

Print Date 2025-04-10 Scale

Project No. 0010052.000 Drawn by LT Checked by JN

NONE



EXISTING 150KVA TRANSFORMER TO BE DEMOLISHED AND REPLACED WITH NEW 150KVA TX-1. PROVIDE NEW GROUNDING GRID FOR NEW TRANSFORMER. COORDINATE DISCONNECT OF EXISTING TRANSFORMER WITH TORONTO HYDRO. - EXISTING DISTRIBUTION PANEL TO BE DEMOLISHED AND REPLACED

WITH NEW DISTRIBUTION PANEL DP-AAA-1. EXISTING BURIED 50MM CONDUIT FOR POWER AND PHONE LINE TO BE DEMOLISHED. RUN NEW 4#4/0 AWG CABLES + GROUND IN NEW 63MM CONDUIT FOR POWER. RUN NEW 50MM CONDUIT FOR TELEPHONE AND INTERNET CONNECTION.

GENERAL NOTES

1. PROVIDE NEW TIME CLOCK AND PHOTOCELL FOR ALL NEW AND EXISTING SITE LIGHTING FIXTURES.

KEYED NOTES EXISTING POLE LIGHTING FIXTURE TO REMAIN. CLEAN AND RELAMP EXISTING FIXTURE ON SITE. 2 EXISTING POLE LIGHTING FIXTURE TO BE REMOVED AND RELOCATED TO LOCATION AS SHOWN. REFER TO LANDSCAPE DRAWINGS FOR EXISTING FIXTURE LOCATIONS. FIXTURES TO BE INSPECTED AND REFURBISHED, CLEANED, AND RELAMPED ON SITE AS NEEDED PRIOR TO RE-INSTALLATION. FIXTURE TO BE FED FROM NEW DISTRIBUTION PANEL DP-AAA-1. CONTRACTOR TO SUPPLY AND INSTALL WIRING AND CONDUIT FROM CONTROL PANEL IN UTILITY ROOM TO DUPLEX GRINDER PUMPS IN SANITARY TANK UNDERGROUND. 4 DIVERSION VALVE IN UNDERGROUND MANHOLE. 5 TORONTO HYDRO MAIN DISCONNECT SWITCH DG-1 TO BE ENCLOSED IN A PAD-LOCKABLE, WEATHERPROOF ENCLOSURE WITH VISIBLE BREAK ISOLATION PER TORONTO HYDRO STANDARDS. DISCONNECT SWITCH TO BE APPROVED BY TORONTO HYDRO PRIOR TO ORDERING. ENCLOSURE TO INCLUDE A HEAVY DUTY MULTI-ACCESS PADLOCK SYSTEM FOR SECURE 24/7 ACCESS BY TORONTO HYDRO PERSONNEL.



Introba

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND CONDITIONS ON THE JOB. DO NOT SCALE DRAWINGS. ALL DRAWING SPECIFICATIONS AND RELATED DOCUENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

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1	2023-01-31	ISSUED FOR 50% CD
No.	Date	Description
Issue	Record	



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South

Scarborough, Toronto, ON

Drawing Title

ELECTRICAL SITE PLAN -NORTH

Print Date 2025-04-11 1:200 Scale Project No. 0010052.000 Drawn by LT Checked by JN



GENERAL NOTES

1. PROVIDE NEW TIME CLOCK AND PHOTOCELL FOR ALL NEW AND EXISTING SITE LIGHTING FIXTURES.

KEYED NOTES

1 EXISTING POLE LIGHTING FIXTURE TO REMAIN. CLEAN AND RELAMP EXISTING FIXTURE ON SITE.

2 EXISTING POLE LIGHTING FIXTURE TO BE REMOVED AND RELOCATED TO LOCATION AS SHOWN. REFER TO LANDSCAPE DRAWINGS FOR EXISTING FIXTURE LOCATIONS. FIXTURES TO BE INSPECTED AND REFURBISHED, CLEANED, AND RELAMPED ON SITE AS NEEDED PRIOR TO RE-INSTALLATION. FIXTURE TO BE FED FROM NEW DISTRIBUTION PANEL DP-AAA-1.



心 Introba

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND CONDITIONS ON THE JOB. DO NOT SCALE DRAWINGS.

ALL DRAWING SPECIFICATIONS AND RELATED DOCUENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

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2	2024-08-16	ISSUED FOR 100% COSTING
1	2023-01-31	ISSUED FOR 50% CD
No.	Date	Description
lssue	Record	



BLUFFER'S PARK EAST WASHROOM

1 Brimley Road South Scarborough, Toronto, ON

Drawing Title **ELECTRICAL SITE PLAN -**SOUTH

Print Date 2025-04-10 Scale 1:200 Drawn by LT Checked by JN

Project No. 0010052.000



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1	2023-01-31	ISSUED FOR 50% CD
No.	Date	Description



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

GROUND FLOOR - POWER & SYSTEM PLAN

Print Date	2025-04-11
Scale	1:50
Project No.	0010052.000
Drawn by	LT
Checked by	JN



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WRITTEN PERMISSION. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE ARCHITECT.

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2	2024-08-16	ISSUED FOR 100% COSTING
1	2023-01-31	ISSUED FOR 50% CD
No.	Date	Description
sue l	Record	



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

ROOF PLAN - POWER & SYSTEMS PLAN

Print Date2025-04-10Scale1:50Project No.0010052.000Drawn byLTChecked byJN



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4	2025 04 11	
4	2025-04-11	
3	2024-09-18	
2	2024-08-16	ISSUED FOR 100% COSTING
1	2023-01-31	ISSUED FOR 50% CD
No.	Date	Description



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

GROUND FLOOR PLAN -LIGHTING PLAN

Print Date	2025-04-11
Scale	1:50
Project No.	0010052.000
Drawn by	LT
Checked by	JN



KEYED NOTES

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CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND CONDITIONS ON THE JOB. DO NOT SCALE DRAWINGS.

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2	2024-08-16	ISSUED FOR 100% COSTING
1	2023-01-31	ISSUED FOR 50% CD
No.	Date	Description



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

ELECTRICAL SINGLE LINE DIAGRAM & SCHEMATIC

Print Date 2025-04-10 NTS Scale Project No. 0010052.000 Drawn by LT Checked by JN

	PANEL NU	JMBER:	PP-A-1									Ρ	ANEL NUM	/BER:	PP-A-2						
	MOUNTING: SURFACE				VC	DLTAGE:	120/208	8V	A.I.C. RATING			MOUNTING: SU	RFACE				vo	LTAGE:	120/208	3V	A.I.C. RATIN
	FED FROM: DP-A-1					PHASE:	3		MAIN BREAKER: 125A MCB			FED FROM: DP	-A-1				F	PHASE	3		MAIN BREAKEI
P		MC			CI	RCUITS:	72					PANEL LOCATION: UTI		м	CIRCUITS: 72						
ССТ	LOAD	-						-	LOAD	сст	ССТ	L	.OAD								LOAD
No.	DESCRIPTION	TYPE	VA	BKR		BKR	VA	TYPE	DESCRIPTION	No.	No.	DESCRIPTIO	N -	TYPE	VA	BKR		BKR	VA	TYPE	DESCI
1	EXTERIOR WP GFI T-SLOT REC	REC.	1200	20A	A	15A	600	REC.	OFFICE RECS	2	1			MTR.	1167		A				
3	GARAGE GFI T-SLOT REC	REC.	800	20A	В	15A	400	REC.	OFFICE REC	4	3	GARAGE OVERH DOOR		MTR.	1167	15A	В	15A	250	ОТН.	MOTORIZE
5	GARAGE GFI T-SLOT REC	REC.	800	20A	С	15A	1000	ОТН.	W/R ELECTRONIC WASH/DRY	6	5			MTR.	1167		С		500	ОТН.	- NORTH ENT
7	GARAGE GFI T-SLOT REC	REC.	400	20A	A	15A	1000	ОТН.	W/R ELECTRONIC WASH/DRY	8	7	STORAGE - EF	-1	MTR.	55	15A	A	15A	500	OTH.	HE/
9	UTILITY RM GFI T-SLOT REC	REC.	400	20A	В	15A	1000	ОТН.	W/R ELECTRONIC WASH/DRY	10	9	UTILITY ROOM -	EF-3	MTR.	60	15A	В		500	ОТН.	
11	UTILITY RM T-SLOT REC	REC.	600	20A	С	15A	1000	ОТН.	W/R ELECTRONIC WASH/DRY	12	11						С	15A	381	ОТН.	SOUT
13	UTILITY RM TELECOM REC	REC.	400	20A	A	15A	1000	отн.	W/R ELECTRONIC WASH/DRY	14	13						A		381	ОТН.	E
15	MTG RM CONV. REC	REC.	600	15A	В	15A	1000	отн.	W/R ELECTRONIC WASH/DRY	16	15						В	15A	381	ОТН.	SOUT
17	MTG RM CONV. REC	REC.	600	15A	С	15A	500	ОТН.	W/R ELECTRONIC SOAP	18	17						С		381	ОТН.	E
19	STAFF RM W/R GFI REC	REC.	200	15A	A	15A	600	ОТН.	W/R ELECTRONIC FLUSH	20	19	UTILITY RM PU P-1	MP	MTR.	270	15A	А				
21	STAFF RM W/R ELECTRONIC FIXTURES	отн.	200	15A	В	15A	600	отн.	W/R ELECTRONIC FLUSH	22	21	STAFF W/C TRAP F	PRIMER	OTH.	6	15A	В	20A	200	MTR.	ROOF ME MAINTENANCE
23	STAFF RM KITCHEN GFI T- SLOT REC	REC.	800	20A	с	15A	200	ОТН.	W/R ADULT LIFT	24	23						с	20A	200	MTR.	ROOF ME MAINTENANCE
25	STAFF RM KITCHEN GFI T- SLOT REC	REC.	800	20A	Α	15A	200	OTH.	UTILITY RM LTG BATT. PACK	26	25			MTR.	288		А	100	1016	MTR.	
27	STAFF RM KITCHEN GFI T- SLOT REC	REC.	800	20A	В	15A	150	ОТН.	W/R ELECTRONIC FAUCET	28	27	GARAGE EF-2		MTR.	288	15A	в	-0/	1016	MTR.	CONDEN
29	STAFF RM KITCHEN REFRIGERATOR REC	REC.	800	15A	С	15A	300	ОТН.	W/R ELECTRONIC FLUSH	30	29			MTR.	288		С	400	1016	MTR.	ROOF AIR-CO
31	STAFF RM CONV. REC	REC.	1000	15A	A	20A	1000	REC.	W/R WP GFI T-SLOT REC	32	31			OTH.	1000		А	40A	1016	MTR.	
33	STAFF RM & HALL T-SLOT CONV. REC	REC.	600	20A	в	15A	600	ОТН.	W/R ADOs	34	33	GARAGE EH-3		OTH.	1000	15A	В		500	ОТН.	
35	HALL T-SLOT CONV. REC	REC.	600	20A	с	15A	400	REC.	W/R ADULT CHANGE TABLE	36	35			OTH.	1000		с	15A	500	ОТН.	
37	HALL ADOs	ОТН.	300	15A	A	15A	200	REC.	SHOWER HALL REC	38	37	BARRIER FRE WASHROOM RAI		OTH.	155	45.0	А		500	OTH.	
39	GARAGE & UTILITY RM LTG	LTG.	360	15A	в	15A	400	REC.	OFFICE REC	40	39	HEATER RP-1		OTH.	155	15A	в		500	ОТН.	
41	MTG RM, HALL & OFFICE LTG	LTG.	760	15A	с	15A	600	REC.	STORAGE & OFFICE REC	42	41	UNIVERSAL WASH	IROOM	OTH.	155		с	15A	500	ОТН.	
43	STAFF RM LTG	LTG.	601	15A	A	15A	361	LTG.	HALL & STORAGE LTG	44	43	RADIANT HEAT		OTH.	155	15A	А		500	ОТН.	
45	W/R LTG	LTG.	586	15A	в	20A	1500	LTG.	EXTERIOR COVE LTG	46	45	BARRIER FRE WASHROOM RAI		OTH.	265	450	в		500	ОТН.	
47	EB EXTERIOR WP GFI T- SLOT REC	REC.	400	20A	с	20A	800	REC.	EB GARAGE T-SLOT REC	48	47	HEATER RP-2		OTH.	265	15A	с	15A	500	ОТН.	
49	EB CHANGE ROOM ADOs	отн.	450	15A	Α	20A	800	REC.	EB GARAGE T-SLOT REC	50	49						А		500	ОТН.	
51	EB CHANGE ROOM LTG	LTG.	293	15A	в	20A	1000	REC.	EB STORAGE T-SLOT REC	52	51						в				
53	EB GARAGE & STORAGE LTG	LTG.	480	15A	с	15A	670	LTG.	EB EXTERIOR COVE LTG	54	53						с				
55	SITE LIGHTING	LTG.	421	20A	A					56	55						А				
57	SITE LIGHTING	LTG.	336	20A	в					58	57						в				
59					с					60	59						с				
61					A					62	61						А				
63					в					64	63						в				
65	SPARE			15A	с	15A			SPARE	66	65	SPARE				15A	С	15A			SP
67	SPARE			15A	A	15A			SPARE	68	67						А				
69	SPARE			15A	в	15A			SPARE	70	69					45-	в	45-			
71	SPARE			15A	с	15A			SPARE	72	71	SPARE				15A	с	15A			SP
	LOAD TOTALS								DEMAND			LOAD TOTAL	S								DEN
	PHASE A 11.53	KVA										PHASE A	7.50 K	(VA							
	PHASE B 11.62	KVA							LIGHTING 6.37	KVA		PHASE B	6.79 K	(VA							
	PHASE C 11.31 KVA DIVERSITY FACTOR RECEPTACLES 9.00 KVA		KVA		PHASE C	6.85 K	(VA		DIVERS	SITY F	ACTOR			RECE							
									MOTORS 0.00	KVA											
	LIGHTING 6.37 KVA 1 OTHERS 10.10 KV/				KVA		LIGHTING	0.00 K	(VA			1									
	RECEPTACLES 18.00 KVA 0.5						RECEPTACLES	0.00 K	(VA			0.5									
	MOTORS 0.00 KVA 0.75 TOTAL POWER 25.47 KV				KVA		MOTORS	9.21 K	(VA			0.75				ΤΟΤΑΙ					
	OTHERS 10.10 KVA 1 TOTAL CURRENT 70.74 A				A		OTHERS	11.93 K	(VA			1				TOTAL (

Important Important <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>																													
Law Hull Into Law Hull Into Control Law Hull Into Contro Law	Project name: Bluf	fer's Park Pavilion		-							ME	ECHANIC		QUIPMEN	IT SCHE	DULE	-				1							DATE:	April 11, 2025
European Table Just Descent Table Just Table Just Descent Table Just Table Just Table Just Table Just Table Just Table Just Table													PC	OWER				STA	RTER			DISC.			CON	ROLS		TOTAL LOAD	94.98 kW
Low										a f		S			ZE	N		(F)	(A)	(d	(F	(¥)	٩		(A)	(A)	ি	EMERGENCY LOAD	0.00 kW
NUMBER OPERATION O			UNIT LOCATION		T		∢	LTAGE	L	ASE	LES	. OF WIR		RE SIZE	NDUIT SI n)	STRIBUTI	PE (B)	РГ.D ВУ (ХЯ Q,TL	RED BY () 78 d'19	STL'D BY	RED BY (РЕ (C)	РL'D BY (атг.р ву	RED BY (NON EMERGENCY LOAD	94.98 kW
UN1 1 MEMORY RECOVERY VANILAGING UNITY GOOD Signed Super Base Parks 20 3 3 0 <td></td> <td></td> <td></td> <td>무</td> <td>1 <u>7</u></td> <td> ₹</td> <td>β</td> <td>9</td> <td></td> <td>H H</td> <td>6</td> <td>2 2</td> <td>2</td> <td>Ň</td> <td>S Ē</td> <td>BOIS</td> <td>1 2</td> <td>SU</td> <td> ≌</td> <td>N N</td> <td>SU</td> <td>N N</td> <td>M</td> <td>Σ</td> <td>SU</td> <td> ≊ </td> <td>N N</td> <td></td> <td>NOTES</td>				무	1 <u>7</u>	₹	β	9		H H	6	2 2	2	Ň	S Ē	BOIS	1 2	SU	≌	N N	SU	N N	M	Σ	SU	≊	N N		NOTES
ETC: 1 DECRY RECORDER VARIARY MULTIPORUS OTUET NOOL OTUE NOOL OTUE NOOL OTUE NOOL OT	ERV-1	1 ENERGY RECOVERY VENTILATOR	UTILITY ROOM - SERVING STAFF AREA	2.05	6.0	1.53	7.5	600	/	3 15	3	3	#1	12 AWG	21mm	DP-AAA-2		M	м	E	E	E	Ē		M	М	E		
Act 2 FMACOL, MAT OPTEX GPTEC 0 0 1 3 2 1 0 1 0 1 0 1 0 1 0 1 0	ERV-2	1 ENERGY RECOVERY VENTILATOR	UTILITY ROOM - SERVING WASHROOMS		38.2	32.00	47.7	600	/	3 50	3	3	; #	#8 AWG	21mm	DP-AAA-2		М	М	E	E	E	E		М	М	E		
Acc 2 PARADIL INIT ISSA PROVIDE B <td>AC-1</td> <td>2 FAN COIL UNIT</td> <td>OFFICE, OFFICE</td> <td></td> <td>0.8</td> <td>0.29</td> <td>1.0</td> <td>208\</td> <td>/</td> <td>1 15</td> <td>2</td> <td>2</td> <td>: #1</td> <td>12 AWG</td> <td>21mm</td> <td>PP-A-2</td> <td></td> <td>М</td> <td>М</td> <td>E</td> <td>E</td> <td>E</td> <td>Е</td> <td></td> <td>М</td> <td>М</td> <td>E</td> <td></td> <td></td>	AC-1	2 FAN COIL UNIT	OFFICE, OFFICE		0.8	0.29	1.0	208\	/	1 15	2	2	: #1	12 AWG	21mm	PP-A-2		М	М	E	E	E	Е		М	М	E		
AC 2 FAX CUL NIT MEETING BOOM 8.8 C.8 1 1 1 2 2 FAX CUL NIT M E E E 0.01 0.00000000000000000000000000000000000	AC-2	2 FAN COIL UNIT	STAFF ROOM		0.8	0.29	1.0	208\	/	1 15	2	2	: #1	12 AWG	21mm	PP-A-2		М	М	E	E	E	Е		М	М	E		
GU1 I ONE-KENRE UNIT ROOP Z44 SR SR SR SR Z RAVE Time PPA2 M N E	AC-3	2 FAN COIL UNIT	MEETING ROOM		0.8	0.29	1.0	208\	/	1 15	2	2	: #1	12 AWG	21mm	PP-A-2		М	М	E	E	E	Е		М	М	E		
OU2 1 CONCREMENT POOR 94.4 66 200 V 1 40 2 2 20 MOV 21mm PP A.2 M N E E E M M E E E E M M E E E M M E E E E M M E E E E M M K E E E M M K	CU-1	1 CONDENSING UNIT	ROOF		24.4	5.08	30.5	208\	/	1 40	2	2	: #	#8 AWG	21mm	PP-A-2		М	M	E	E	E	E		М	M	E		
DV1 1 DVCRBION VALVE DVCRBION VALVE <th< td=""><td>CU-2</td><td>1 CONDENSING UNIT</td><td>ROOF</td><td></td><td>24.4</td><td>5.08</td><td>30.5</td><td>208\</td><td>/</td><td>1 40</td><td>2</td><td>2</td><td>: #</td><td>#8 AWG</td><td>21mm</td><td>PP-A-2</td><td></td><td>М</td><td>м</td><td>E</td><td>E</td><td>E</td><td>Е</td><td></td><td>М</td><td>М</td><td>E</td><td></td><td></td></th<>	CU-2	1 CONDENSING UNIT	ROOF		24.4	5.08	30.5	208\	/	1 40	2	2	: #	#8 AWG	21mm	PP-A-2		М	м	E	E	E	Е		М	М	E		
EP-1 1 DEVALUET VAN	DIV-1	1 DIVERSION VALVE	DIVERSION MANHOLE - EXTERIOR		0.6	0.12	0.8	600	/	3 15	3	3	; #1	12 AWG	21mm	DP-AAA-2		М	M	E	E	E	E		М	М	E		
FE-2 1 DOWLAST FAN DARAGE 0.32 24 0.03 0.0 2001 5 3 3 12/WG 21mm PFA-2 N N N E E EF3 1 DOWLAST FAN DUTLY PROVE 4.5 6.0 3.0 2001 51.0 2 12/WG 21mm PFA-2 N N N E E E E E E E E E E E E N N N E Image: Note:	EF-1	1 EXHAUST FAN	SEASONAL GARAGE, STORAGE		0.5	0.06	0.6	120\	/	1 15	1	2	: #1	12 AWG	21mm	PP-A-2		М	M	E	E	E	Е		М	М	E		
FF3 1 DBANUST FAN UTLET RADOM 65 68 60 60 700 1 2 202 AWG 21mm PFA.2 M M E E E E E E E E E M M E EH1 4 ECCTRC HEATER SOUTH EXTERM SOUTH EXTE	EF-2	1 EXHAUST FAN	GARAGE	0.33	2.4	0.25	3.0	208\	/	3 15	3	3	; #1	12 AWG	21mm	PP-A-2		М	M	E	E	E	E		М	М	E		
EH-1 4 ELECTRIC HATER WASHROOMS 4/2 1/2 2010 3 1/2 2011 1/2	EF-3	1 EXHAUST FAN	UTILITY ROOM		0.5	0.06	0.6	120\	/	1 15	1	2	: #1	12 AWG	21mm	PP-A-2		М	M	E	E	E	Е		М	М	E		
BH3 2 ELECTRC HEATER SOUTH ENTRYWAY 55 115 65 280 11 55 2 2 112/WG 2 112/WG 1 1 6 1	EH-1	4 ELECTRIC HEATER	WASHROOMS		4.2	1.50	5.2	208\	/	3 15	3	3	; #1	12 AWG	21mm	PP-A-2		N/A	N/A	N/A	E	E	Е		М	М	E		
BH3 2 ELECTINC HEATER UTILITY HOOM, GARAGE 6.3 10.4 20V 3 15 3 3 172,2WG NA NA <td>EH-2</td> <td>2 ELECTRIC HEATER</td> <td>SOUTH ENTRYWAY</td> <td></td> <td>5.5</td> <td>1.15</td> <td>6.9</td> <td>208\</td> <td>/</td> <td>1 15</td> <td>2</td> <td>2</td> <td>: #1</td> <td>12 AWG</td> <td>21mm</td> <td>PP-A-2</td> <td></td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>E</td> <td>E</td> <td>Е</td> <td></td> <td>М</td> <td>М</td> <td>E</td> <td></td> <td></td>	EH-2	2 ELECTRIC HEATER	SOUTH ENTRYWAY		5.5	1.15	6.9	208\	/	1 15	2	2	: #1	12 AWG	21mm	PP-A-2		N/A	N/A	N/A	E	E	Е		М	М	E		
EBH1 1 ELECTRIC DUCT HEATER UTUTY ROOM 4 5.0 6.0 6.0 6.0 6.0 8.00 3 15 3 12.8/02 2.1/0 PAAA2 NA N	EH-3	2 ELECTRIC HEATER	UTILITY ROOM, GARAGE		8.3	3.00	10.4	208\	/	3 15	3	3	; #1	12 AWG	21mm	PP-A-2		N/A	N/A	N/A	E	E	Е		М	М	E		
GRINDER PLANDS SANTARY TAX EXTENDIOR 5.00 4 3.73 8.0 600V 3 15 3 3 8.74 MVG Imm DP-AAA-2 M M E E E E M M E P-1 1 RECREPANDP UTUTY ROOM 2.3 0.27 2.8 1.0 1.0 1.1 <td< td=""><td>EDH-1</td><td>1 ELECTRIC DUCT HEATER</td><td>UTILITY ROOM</td><td></td><td>4.8</td><td>5.00</td><td>6.0</td><td>600</td><td>/</td><td>3 15</td><td>3</td><td>3</td><td>; #1</td><td>12 AWG</td><td>21mm</td><td>DP-AAA-2</td><td></td><td>N/A</td><td>N/A</td><td>N/A</td><td>E</td><td>E</td><td>Е</td><td></td><td>М</td><td>M</td><td>E</td><td></td><td></td></td<>	EDH-1	1 ELECTRIC DUCT HEATER	UTILITY ROOM		4.8	5.00	6.0	600	/	3 15	3	3	; #1	12 AWG	21mm	DP-AAA-2		N/A	N/A	N/A	E	E	Е		М	M	E		
HNT1 1 HOT WATER TANK UTLITY ROOM 24 24 240 244 300 800 87 8160 AW2 NN NA NA NA NA NA	GP-1,2	1 GRINDER PUMPS	SANITARY TANK - EXTERIOR	5.00	6.4	3.73	8.0	600	/	3 15	3	3	#1	12 AWG	21mm	DP-AAA-2		M	M	E	E	E	E		М	M	E		
P-1 1 RECIRC PUMP UTULTY ROOM 2.3 0.27 2.9 120V 1 15 1 2 #12XW3 21mm PP-A-2 M M E	HVVT-1	1 HOT WATER TANK	UTILITY ROOM		24.0	24.94	30.0	600	/	3 30	3	3	; #1	10 AWG	21mm	DP-AAA-2		N/A	N/A	N/A	E	E	Е		М	М	E		
IP-1 1 TRAP PRIMER ISTAFF WASHROOM 0.1 0.1 0.1 0.1 0.1 1.1 2 1.2 2.1 IP-2 M M E E E M M E RP-2 1 RADIANT HEATER BARTIGER REVEACEMON 1.5 1 2 #12 AWG 1mm PP-4.2 N/A N/A N/A E E M M E E M M E E M M E E M M E E M M E E M M E E M M E E M M E E M M E E M M E E M M E E M M E E M M E E E E E M M E E E M M E E </td <td>P-1</td> <td>1 RECIRC PUMP</td> <td>UTILITY ROOM</td> <td></td> <td>2.3</td> <td>0.27</td> <td>2.9</td> <td>120\</td> <td>/</td> <td>1 15</td> <td>1</td> <td>2</td> <td>: #1</td> <td>12 AWG</td> <td>21mm</td> <td>PP-A-2</td> <td></td> <td>М</td> <td>М</td> <td>E</td> <td>E</td> <td>E</td> <td>E</td> <td></td> <td>М</td> <td>M</td> <td>E</td> <td></td> <td></td>	P-1	1 RECIRC PUMP	UTILITY ROOM		2.3	0.27	2.9	120\	/	1 15	1	2	: #1	12 AWG	21mm	PP-A-2		М	М	E	E	E	E		М	M	E		
PP-1 1 RADIANT HEATER BARREP FREE WASHROOM 1.5 0.31 1.8 200 tr 1 1 2 #12 AWO 21mm PP-A.2 NA NA NA E E E M M E (A) ABBREVIATIONS: E E ELCETICAL CONTRACTOR (B) STARTER TYPE: HOA = HAND_OFF-AUTO SWITCH (C) CONTROL DEVICES: Ba = BUILDING AUTOMATION SYSTEM (A) ABBREVIATIONS: E ELECTICAL CONTRACTOR (B) STARTER TYPE: HOA = HAND_OFF-AUTO SWITCH (C) CONTROL DEVICES: Ba = BUILDING AUTOMATION SYSTEM (A) ABBREVIATIONS: E E CO = COMEINATION STARTER CO = COMEINATION STARTER CO = COMEINATION STARTER CO = COMEINATION STARTER CO = SPECED COMBINIATION STARTER <td>TP-1</td> <td>1 TRAP PRIMER</td> <td>STAFF WASHROOM</td> <td></td> <td>0.1</td> <td>0.01</td> <td>0.1</td> <td>120\</td> <td>/</td> <td>1 15</td> <td>1</td> <td>2</td> <td>: #1</td> <td>12 AWG</td> <td>21mm</td> <td>PP-A-2</td> <td></td> <td>М</td> <td>M</td> <td>E</td> <td>E</td> <td>E</td> <td>Е</td> <td></td> <td>М</td> <td>М</td> <td>E</td> <td></td> <td></td>	TP-1	1 TRAP PRIMER	STAFF WASHROOM		0.1	0.01	0.1	120\	/	1 15	1	2	: #1	12 AWG	21mm	PP-A-2		М	M	E	E	E	Е		М	М	E		
PR-2 1 RADIANT HEATER UNXERSAL WASHROOM 2.5 0.5 3.2 2.00V 1 1 2 #12 AWG Time PP-A.2 NA NA NA E E E E M M E (A) ABBREVIATIONS ELECTRICAL CONTRACTOR (B) STARTER TYPE: How + HANO GFA LUTO SWITCH (C) CONTROL DEVICES: BA = BULINGA JUTCANTON SYSTEM 0 GWINER REFRESENTATIVE: COS ECOMBINATION STARTER (C) CONTROL DEVICES: BA = BULINGA JUTCANTON SYSTEM K = KITCHEN CONTRACTOR (C) CONTROL DEVICES: COMBINATION STARTER (C) CONTROL DEVICES: BA = BULINGA JUTCANTON SYSTEM VERU ADVICH CO COMBINATION STARTER (C) CONTROL DEVICES: BA = BULINGA JUTCANTON NOTES: 1. CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND WIRING REQUIREMENTS OF ALL WERKOLA EQUIPMENT PRIOR TO ANY WIRING. Is a USU Is a USU<	RP-1	1 RADIANT HEATER	BARRIER FREE WASHROOM		1.5	0.31	1.8	208\	/	1 15	1	2	: #1	12 AWG	21mm	PP-A-2		N/A	N/A	N/A	E	E	E		М	М	E		
(A) ABBREVIATIONS: E = ELECTICAL CONTRACTOR (B) STATET TYPE: HOA = HAND-OFF-AUTO SWITCH (C) CONTROL DEVICES: BA = BULDING AUTOMATION SYSTEM M = MECHANICUL CONTRACTOR MS = MANUAL STATER CO = COMBINATION STATER (C) CONTROL DEVICES: BA = BULDING AUTOMATION SYSTEM O = OWNER REPRESENTATIVE CO = COMBINATION STATER CO = COMBINATION STATER IT = LINE VOLTAGE THEMOSTAT VED = VARABLE FREQUENCY DRVE CO = COMBINATION STATER FS = FLOW SWITCH VED = VARABLE FREQUENCY DRVE WR = MATOR ARED CHAILY (V2 VAC COL AND MS) FS = FLOW SWITCH VED = VARABLE FREQUENCY DRVE WR = MATOR ARED CHAILY (V2 VAC COL AND MS) FS = FLOW SWITCH VED = VARABLE FREQUENCY DRVE WR = MATOR ARED CHAILY (V2 VAC COL AND MS) FS = FLOW SWITCH PCS = PACKABED CONTROL SYSTEM OS = GAS SENSOR H= HUMIDITY SENSOR NOTES: 1. CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ANY WIRING. FS = FLOW SWITCH 0. CONTRACTOR TO AND MOXING RAD OFFICIENCIAN TO TO ENSURE LOCATION AND OUNTING ARE ON TO AND VPD FS = FLOW SWITCH FS = FLOW SWITCH 1. CONTRACTOR TO AND MURING REQUIREMENTS OF ALL REVIEW IDV 25 DRAWINGS AND SPECIFICATION TO ENSURE LOCATION AND UNRING REVIEW MOTOR AND UNRING REEVEW EW MOTOR AND UNRING RECORRECT TE = TH	RP-2	1 RADIANT HEATER	UNIVERSAL WASHROOM		2.5	0.53	3.2	208\	/	1 15	1	2	: #1	12 AWG	21mm	PP-A-2		N/A	N/A	N/A	E	E	Е		М	M	E		
M = MECHANICAL CONTRACTOR M = MANUAL STARTER Es = ND SWITCH V = MECHANICAL CONTRACTOR C = CONSINATION STARTER E1 = LINE VUITAGE THERMOSTAT K = KTCHEN CONTRACTOR C = CONSINATION STARTER E1 = LINE VUITAGE THERMOSTAT V = WERHBASENTATIVE C = CONSINATION STARTER E3 = GAS SURGH V = WERHBASENTATIVE C = CONSINATION STARTER E3 = GAS SURGH V = WERHBASENTATIVE C = CONSINATION STARTER H = MUNICITY SENSOR V = WERHBASENTATIVE C = CONSINATION STARTER H = MUNICITY SENSOR V = WERHBASENTATIVE C = CONSINATION STARTER H = MUNICITY SENSOR V = WERHBASENTATIVE C = CONSINATION STARTER H = MUNICITY SENSOR V = WERHBASENTATIVE C = CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ANY WIRING. L = LIVE SUNTCH 2 C CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT OF ANY WIRING. L = LIVE SUNTCH 3 WIRE MOTOR DISCOMENT PROVIDE WIRING BE OLOGING AND VD T = THERMOSTAT T = THERMOSTAT 4 ALL MOTORS 12 /P OR LARGER SHALL HAVE MAGNETICS STARTER S DE WITH HOUT LAND PROVIDE WIRING AND VD C = VIEL SUNTCH K = KIEL SUNTCH 5 SINGLE S PEED STARTERS TO BE WITH HOUT AND A	(A) ABBREVIATIONS:	E = ELECTRICAL CONTRACTOR	(B) STARTER TYPE:			-	HOA =	HAND-C	DFF-AL	UTO ŚWITCI	н										(C) CO	NTROL DE	/ICES:		BA = BL	JILDING A	итом,	ATION SYSTEM	
b = OWNER REPRESENTATIVE C = COMBINATION STARTER CO = COMBINATION STARTER COMTACTOR COMPICAL ENDURING COMPICAL EDURING COMPICAL POLICIENCY DRIVE MRR = MOTOR RATED RELAY (24 VAC COL AND MS) PGS = PACKAGED CONTROL SYSTEM LI = INTERLOCK		M = MECHANICAL CONTRACTOR					MS = N	IANUAL	STAR	RTER															ES = EN	ID SWITC	н		
K = KITCHEN CONTRACTOR C02 = 2-SPEED COMBINATION STARTER FS = FLOW SWITCH VED = VARABLE FREQUENCY ORVER GS = GAS SCASS MRR = MOTOR RATED RELAY (24 VAC COLLAND MS) H = HUMIDITY SENSOR PCS = PACKAGED CONTROL SYSTEM I = INTEGRATION NOTES: 1. CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ANY WIRING. SS = CASS SUBJECT 2. CONTRACTOR SHALL REVIEW DIV.25 DRAWINGS AND SPECIFICATION TO ENSURE LOCATIONS AND QUANTITIES ARE CORRECT SS = CASS SUBJECT 3. WIRE MOTOR DI SICONNECT AHEAD OF THE VPD AND INSTALL AT THE MOTOR. PROVIDE WIRING BE TWEEN MOTOR AND VPD S = THERMOSTAT 4. ALL MOTORS 1/2 HPD ALL ARVE MADRETIC STARTERS WIRE MOTOR DI SICONNECT AHEAD OF THE VPD AND INSTALL HAVE MADRETIC STARTERS YPD = VARABLE FREQUENCY DRIVE 5. SINGLE SPEED STARTERS TO BE WITH HOA POSITION SWITCH PLOT LIGHT, AND 120 VAC CONTROL CIRCUIT. WIR = NOTOR PARE ARE SHIPPED LODGES AND REPORTING BY DUNISION 28. YPD = VARABLE FREQUENCY DRIVE 6. CONTROL PARELES ARE SHIPPED LODGES AND REPORTING BY DUNISION 28. FCOF = FIREFIGHTERS CONTROL CONTROL LIGHT, AND 120 VAC CONTROL CIRCUIT. WIR = NOTOSION SWITCH SHALL HAVE MADRETIS STARTERS YPD = VARABLE FREQUENCY DRIVE 8. DIVISION 26 TO DUPLY AND INSTALL HOUSE MADRETIS STARTERS YPD EVARABUE FREQUENCY DRIVE SHALL HAVE MADRETIS STARTERS		O = OWNER REPRESENTATIVE					CO = C	OMBINA	ATION	STARTER															LT = LIN	IE VOLTA	GE TH	HERMOSTAT	
VFD = VARIABLE FREQUENCY ORVE GS = GAS SENSOR MRR = MOTOR RATE DRELAY (24 VAC COL AND MS) PCS = PACKAGED CONTROL SYSTEM H= HUMDDTY SENSOR NOTES: 1. CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ANY WIRING. FS = PAS EXAMPLE 2. CONTRACTOR SHALL REVIEW DV 25 DRAWINGS AND SPECIFICATION TO ENSURE COATIONS AND UNDITIST ALL DISCONNECT AHEAD OF THE VFD AND INSTALL AT THE MOTOR. PROVIDE WIRING BETWEEN MOTOR AND VFD. T = THERMOSTAT 3. WIRE MOTOR DISCONNECT AHEAD OF THE VFD AND INSTALL AT THE MOTOR. PROVIDE WIRING BETWEEN MOTOR AND VFD. T = THERMOSTAT 4. ALL MOTORS 12/ HP OR LARGER SHALL HAVE MAGNETIC STATTERS. WIRE MOTOR DISCONNECT AHEAD OF THE VFD AND INSTALL AT THE MOTOR. PROVIDE WIRING BETWEEN MOTOR AND VFD. T = THERMOSTAT 5. SINGLE SPEED STATTERS TO BE WITH HOAY DISCONS WITH, PLOT LIGHT, AND 120 VAC CONTROL CIRCUIT. WIRE MOTOR DISCONNECT AND REVIEW DIVISION 38. WICH 6. CONTROL PANELS ARE SHIPPED LOOSE AND REQUIRE FIELD WIRING BET WITH HAV DISCONNECT SWITCH WIRING BET WITH HAV DISCONNECT SWITCH WIRING BET MERING WIRING HER MOTOR DISCONNECT AND THE MOTOR PROVIDE UNISION 38. FG = FREFIGHTERS CENTRAL CONTROL FACILITY 7. ALL STATTERS TO DE BUVISION 38. FG = FREFIGHTERS CENTRAL CONTROL FACILITY FG = FREFIGHTERS CENTRAL CONTROL FACILITY 8. DIVISION 26 TO SUPPLY AND INSTALL DISCONNECT SWITCH WINDLY ASTRTERS TO BUV		K = KITCHEN CONTRACTOR					CO2 =	2-SPEEI	D CON	BINATION :	STARTER	2													FS = FL	OW SWIT	ГСН		
MRR MOTOR RATED RELAY (24 VAC COLLAND MS) PCS = PACKAGED CONTROL SYSTEM H = HUTEINOTY SENSOR NOTES: 1. CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ANY WIRING. LS = LEVEL SWITCH 2. CONTRACTOR SHALL REVIEW DIV.25 DRAWINGS AND SPECIFICATION TO ENSURE LOCATIONS AND QUANTITIES ARE CORRECT THE MOSTOR DISCONFICT AHEAD OF THE VFD AND INSTALL AT THE MOTOR. PROVIDE WIRING BETWEEN MOTOR AND VFD T = THERMOSTAT 3. WIRE MOTOR DISCONFICT AHEAD OF THE VFD AND INSTALL AT THE MOTOR. PROVIDE WIRING BETWEEN MOTOR AND VFD T = THERMOSTAT 4. ALL MOTORS 112 HP OR LARGER SHALL HAVE MAGNETC STARTERS F = SINGLE SPEED STARTERS TO BE WITH HOA POSITION SWITCH, PLOT LICHT, AND 120 VAC CONTROL CIRCUT. WS = NAULL SWITCH 6. CONTROL PARLES RARE SHIPPED LOSSE AND REQUIRE FIELD WIRING BY DIVISION 26. WS = NAULL SWITCH 7. ALL STRATERS TO BE WITH HOA POSITION SWITCH, PLOT LICHT, AND 120 VAC CONTROL CIRCUT. WS = NAULL SWITCH 8. DIVISION 25 TO SUFFLY AND INSTALL DISCONNECT SWITCH SP IF THE DISCONNECT SWITCH WIRED BY DIVISION 26. KT = REVERING STAT 9. ALL FIRE ALARM DEVICES WIRED BY DIVISION 28. PROVIDE HARDWIRE CONNECTION TO SHUTDOWN ON FIRE ALARM. DC = DIRECT DIGITAL CONTROL SALE SHIFT THE SUPPLY AND INDECATES SWITCH SAND LOCATIONS WITH DIV. 25 8. ALL FIRE ALARM DEVICES WIRED BY DIVISION 28. PROVIDE HARDWIRE CONNECTION TO SHUTDOWN ON FIRE ALARM.							VFD =	VARIAB	LE FR	REQUENCY	DRIVE														GS = G/	AS SENSO	OR		
PCS = PACKAGED CONTROL SYSTEM I = INTERLOCK LS = LEVELS WITCH LS = LEVELS WITCH LS = CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ANY WIRING. C CONTRACTOR SHALL REVIEW DIV.25 DRAWINGS AND SPECIFICATION TO ENSURE LOCATIONS AND QUANTITES ARE CORRECT C CONTRACTOR SHALL REVIEW DIV.25 DRAWINGS AND SPECIFICATION TO ENSURE LOCATIONS AND QUANTITES ARE CORRECT C CONTRACTOR SHALL REVIEW DIV.25 DRAWINGS AND SPECIFICATION TO ENSURE LOCATIONS AND QUANTITES ARE CORRECT C T THEE MOSTAT C T THERMOSTAT A ALL MOTORS 1/2 HP OR LARGER SHALL HAVE MAGNETC STARTERS SINGLE SPEED STARTERS TO BE WITH HOA POSITION SWITCH, PILOT LIGHT, AND 1/20 AC CONTROL CIRCUIT. C CONTROL PARELS ARE SHIPPED LOSE AND REQUIRE FIELD WIRING BE TWEEN MOTOR AND VPD C CONTROL PARELS ARE SHIPPED LOSE AND REQUIRE FIELD WIRING BE TWEEN MOTOR AND VPD C CONTROL PARELS ARE SHIPPED LOSE AND REQUIRE FIELD WIRING BE TWEEN MOTOR AND VPD C CONTROL PARELS ARE SHIPPED LOSE AND REQUIRE FIELD WIRING BE TWEEN MOSTATO C CONTROL PARELS ARE SHIPPED LOSE AND REQUIRE FIELD WIRING BE TWEEN MOTOR AND VPD C CONTROL PARELS ARE SHIPPED LOSE AND REQUIRE FIELD WIRING BE TWEEN DIVISION 26. C DUISION 26 TO SUPPLY AND LOSINGNET SWITCHES. IF THE DISCONNECT COLUMN INDICATES 1%, THEN IT IS A PACKAGE UNIT C/W A DISCONNECT SWITCH WIRED BY DIVISION 26. C DUISION 26 TO SUPPLY AND INSTALL LISCONNECT COLUMN INDICATES 1%, THEN IT IS A PACKAGE UNIT C/W A DISCONNECT SWITCH WIRED BY DIVISION 26. D ALL FIRE ALARM DEVICES WIRED BY DIVISION 26. A LL FIRE ALARM DEVICES WIRED BY DIVISION 26 NOREOTO TO BOILER AND DOWN FIRE ALARM. D PROVIDE EMERGENCY SHUTDOWN FOR ALL BOILERS AT DOOR TO BOILER AND DOWN FIRE ALARM. D PROVIDE EMERGENCY SHUTDOWN FOR ALL DOLOCATO ON DO BLER ROOM D D C = DIRECT DIGITAL CONTROLS HOA = HAND-OFF-AUTO SWITCH HOA = HAND-OFF-AUTO SWITCH HOA = HAND-OFF-AUTO SWITCH PROVIDE FIRE ALARM DUCT SMOKE DETECTOR INSTALLED AFTER THE SUPPLY AIR FAN AS PER CANCESA-S524							MRR =	MOTOR	R RATE	ED RELAY (2	24 VAC C	OIL AND	D MS)												H = HUN	/IDITY SE	INSOR	ł	
NOTES: 1. CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ANY WIRING. 1. CONTRACTOR SHALL REVIEW DIV.25 DRAWINGS AND SPECIFICATION TO ENSURE LOCATIONS AND QUANTITIES ARE CORRECT 2. CONTRACTOR SHALL REVIEW DIV.25 DRAWINGS AND SPECIFICATION TO ENSURE LOCATIONS AND QUANTITIES ARE CORRECT 3. WIRE MOTOR DISCONNECT AHEAD OF THE VFD AND INSTALL AT THE MOTOR, PROVIDE WIRING BETWEEN MOTOR AND VFD 4. ALL MOTORS 1/2 HO PC LARGER SHALL HAVE MAGRETIC STARTERS 5. SINGLE SPEED STARTERS TO BE WITH HOA POSITION STUTCH, PILOT LIGHT, AND 120 VAC CONTROL CIRCUIT. 6. CONTROL PANELS ARE SHIPPED LOOSE AND REQUIRE FIELD WIRING BY DIVISION 26. 7. ALL STARTERS TO BE WITH HOA POSITION SWITCH, PILOT LIGHT, AND 120 VAC CONTROL CIRCUIT. 8. DIVISION 26 TO SUPPLY AND INSTALL DISCONNECT SWITCHES. IF THE DISCONNECT COLUMN INDICATES 'M, THEN IT IS A PACKAGE UNIT C/W A DISCONNECT SWITCH WIRED BY DIVISION 26. 9. ALL FIRE ALARM DEVICES WIRED BY DIVISION 26. FITHE DISCONNECT COLUMN INDICATES 'M, THEN IT IS A PACKAGE UNIT C/W A DISCONNECT SWITCH WIRED BY DIVISION 26. 9. ALL FIRE ALARM DEVICES WIRED BY DIVISION 26. 9. ALL FIRE ALARM DEVICES WIRED BY DIVISION 26. 9. ALL FIRE ALARM DEVICES WIRED BY DIVISION 26. FORYDE HARDWIRE CONNECTION TO SHITDOWN ON FIRE ALARM. 9. ALL FIRE ALARM DEVICES WIRED BY DIVISION 26. THE DISCONNECT SWITCH DIV. 25 10. PROVIDE HERGENCY SHITDOWN FOR ALL DDICER ROOM 11. PROVIDE 120 VOLT 20A RECEPTACLE ON A DEDICATED CIRCUIT FOR ALL DDC PANELS. CONFIRM QUANTITIES AND LOCATIONS WITH DIV. 25 12. PROVIDE FIRE ALARM DUCT SMOKE DETECTOR INSTALLED AFTER THE SUPPLY AIR FAN AS PER CANCEA-SS24							PCS =	PACKAG	GED C	CONTROL S	YSTEM														I = INTE	RLOCK			
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9. ALL FIRE ALARM DEVICES WIRED BY DIVISION 26. PROVIDE HARDWIRE CONNECTION TO SHUTDOWN ON FIRE ALARM. 10. PROVIDE EMERGENCY SHUTDOWN FOR ALL BOILERS AT DOOR TO BOILER ROOM 11. PROVIDE 120 VOLT 20A RECEPTACLE ON A DEDICATED CIRCUIT FOR ALL DDC PANELS. CONFIRM QUANTITIES AND LOCATIONS WITH DIV. 25 12. PROVIDE FIRE ALARM DUCT SMOKE DETECTOR INSTALLED AFTER THE SUPPLY AIR FAN AS PER CAN/CSA-S524		8. DIVISION 26 TO SUPPLY AND	INSTALL DISCONNECT SWITCHES. IF THE D	SCONNE	ECT COL		DICATES	'M', THE	N IT IS	S A PACKAG	GE UNIT C	C/W A D	ISCON	NECT SV	VITCH W	IRED BY DIVISIO	DN 26.								FA = FIF			TEM	
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							LUMINA	RE SCHEDU	JLE					
			Γ			EQUIPMENT INF	0.			ELECTR	ICAL INFO.			INSTALLATION INFO.
			1	ГҮРЕ	DESCRIPTION	LOCATION	MODEL	POWER	VOLTAGE	LAMP	ILLUMINANCE	CCT (K)	CRI	REMARKS
A.I.C. RATING MAIN BREAKER: 125A MCB			PL1	EXTERIOR POLE MOUNTED LIGHTING FIXTURE. POLE HEIGHT OF 3.7M	EXTERIOR	LANDSCAPE FORMS MOTIVE AREA LIGHT	48W	120V	LED	3987lm	4000K	80+	TO BE CONTROLLED BY TIM CLOCK/PHOTOCELL	
			PL2	EXTERIOR POLE MOUNTED PROJECTOR LIGHTING FIXTURE. POLE HEIGHT OF 6M	EXTERIOR	WE-EF LIGHTING FLC220 LED GOBO PROJECTOR	37W	120V	LED	4900lm	4000K	80+	TO BE CONTROLLED BY TIM CLOCK/PHOTOCELL	
				C1	INTEGRATED COVE LIGHTING FIXTURE	WASHROOMS	WINONA LIGHTING CVF WINCOVE	5.5W/ft	120V	LED	600lm/ft	3000K	80+	FIXTURE LENGTH VARIES, REFE FLOOR PLANS
	LOAD	сст		C2	EXTERIOR COVE LIGHTING FIXTURE	EXTERIOR	COOPER LIGHTING IO LED CoviO	10W/ft	120V	LED	1000lm/ft	4000K	90+	TO BE CONTROLLED BY TIM CLOCK/PHOTOCELL
Т	DESCRIPTION	Nia		D1	4" ROUND RECESSED DOWNLIGHT	WASHROOMS	EDISON LIGHTING ED RD+	20W	120V	LED	2050lm	3500K	90+	
	DESCRIPTION	2		L1	SUSPENDED 4' LINEAR LIGHTING FIXTURE, WITH 70% UP AND 30% DOWNLIGHT COMPONENT	STAFF AREA	EDISON LIGHTING VECTOR 5+	40W	120V	LED	4280lm	3500K	90+	
	MOTORIZED DAMPERS	4	-	L2	SUSPENDED 4' VANDAL PROOF LINEAR LIGHTING FIXTURE	UTILITY ROOM, GARAGE, STORAGE	COOPER LIGHTING FAIL-SAFE VAPORITE LED	30W	120V	LED	4000lm	3500K	80+	
	NORTH ENTRY ELECTRIC HEATER	8		P1	7.5" ROUND SUSPENDED PENDANT LIGHTING FIXTURE	WASHROOMS	EDISON LIGHTING ED-PRO+	30W	120V	LED	3000lm	3500K	90+	
- EH-1		10		W1	VANDAL RESISTANT WALL MOUNTED LIGHTING FIXTURE	CHANGE ROOMS	COOPER LIGHTING FAIL-SAFE G12 LED	15W	120V	LED	1700lm	3500K	80+	

TH.	SOUTH ENTRY	12
TH.	EH-2	14
ΠH.	SOUTH ENTRY	16
TH.	EH-2	18
		20
IR.	ROOF MECH EQUIP MAINTENANCE GFI T-SLOT REC	22
IR.	ROOF MECH EQUIP MAINTENANCE GFI T-SLOT REC	24
IR.	ROOF AIR-COOLED OUTDOOR	26
IR.	CUNDENSING UNIT CU-1	28
IR.		30
IR.	CUIDEINSING UNIT CU-2	32
TH.		34
TH.	HEATER	36
TH.	En-1	38
TH.		40
TH.	HEATER	42
TH.	EH-I	44
ΠH.		46
TH.	HEATER	48
ΠH.	EH-1	50
		52
		54
		56
		58
		60
		62
		64
	SPARE	66
		68
	SDADE	70
	SPARE	72
	DEMAND	
	LIGHTING 0.00	KVA
	RECEPTACLES 0.00	KVA

MOTORS 6.91 KVA OTHERS 11.93 KVA

TOTAL POWER 18.84 KVA

TOTAL CURRENT 52.34 A

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CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND CONDITIONS ON THE JOB. DO NOT SCALE DRAWINGS.

ALL DRAWING SPECIFICATIONS AND RELATED DOCUENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE ARCHITECT.

4	2025-04-11	ISSUED FOR TENDER
3	2024-09-18	ISSUED FOR BUILDING PERMIT
2	2024-08-16	ISSUED FOR 100% COSTING
1	2023-01-31	ISSUED FOR 50% CD
No. Date		Description



BLUFFER'S PARK EAST WASHROOM 1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

ELECTRICAL SCHEDULES

Print Date 2025-04-11 Scale NTS Project No. 0010052.000 Drawn by LT Checked by JN







1 TYPICAL COMMUNICATION FLOOR OUTLET BOX SCALE: N.T.S.



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Issue Record		



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Drawing Title

ELECTRICAL DETAILS

Print Date 2025-04-10 NTS Scale Project No. 0010052.000 Drawn by LT Checked by JN

ELECTRICAL SPECIFICATIONS:

1. GENERAL

1.1 SHORT FORM SPECIFICATIONS

- THE ELECTRICAL PROJECT SPECIFICATION IS IN SHORT FORM FORMAT AND IS BASED ON THE "MASTER FORMAT" PUBLISHED JOINTLY BY 1.1.1
- CONSTRUCTION SPECIFICATIONS CANADA AND THE CONSTRUCTION SPECIFICATIONS INSTITUTE. 1.1.2 THE NATURE OF THE SHORT FORM SPECIFICATION FORMAT INDICATES THAT DETAILED EXECUTION AND REGULATORY REQUIREMENTS MAY NOT BE PRESENT IN THIS SECTION.
- 1.1.3 IT IS EXPECTED THAT THE CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY EXCLUSIONS ARISING FROM THE USE OF THE SHORT FORM SPECIFICATION IN THE BID PRICE, AND INCLUDE ALL REQUIREMENTS THAT WOULD BE NECESSARY IF THIS HAD BEEN A STANDARD, THREE PART FORMAT SPECIFICATION.
- 1.1.4 REQUIREMENTS OF WORK REQUIRING COORDINATION OR COMBINED SKILLS WILL BE READ AS ONE REQUIREMENT, APPLICABLE TO ALL PARTIES PROVIDING WORK.
- THESE DOCUMENTS INCLUDE ALL DRAWINGS AND SPECIFICATIONS AND CONTRACT REQUIREMENTS; WHAT IS REQUIRED BY ONE 1.1.5 COMPONENT IS REQUIRED BY ALL.
- THESE SPECIFICATIONS SHOULD BE READ IN CONJUNCTION WITH ALL OTHER DOCUMENTS; WHERE DIFFERENCES OCCUR BETWEEN 1.1.6 DIFFERENT DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENT WILL APPLY.
- 1.1.7 COORDINATE ACTIVITIES WITH OTHER SECTIONS AND TRADES TO MINIMIZE CONFLICTS THAT MAY ARISE.

1.2 DEFINITIONS

- 1.2.1 PROVIDE: THE WORD PROVIDE MEANS TO SUPPLY, INSTALL AND MAKE OPERATIONAL, AND IS APPLICABLE TO THE CONTRACTOR OF THE WORK OF THIS SECTION.
- 1.2.2 ALTERNATES: THE WORD ALTERNATE IS APPLIED TO A PRODUCT LISTED BY THE CONSULTANT THAT IS DIFFERENT THAN PRODUCTS SPECIFIED FOR THE PROJECT, AND THAT HAS BEEN DETERMINED TO ESSENTIALLY FUNCTION, OPERATE AND PERFORM IN A MANNER SIMILAR TO OR BETTER THAN THE SPECIFIED PRODUCT; WILL NOT ALTER CONSTRUCTION METHODS OR DIMENSIONS; AND WILL HAVE THE SAME VISUAL APPEARANCE, FIT AND FINISH INCLUDING ANY ADDITIONAL REQUIREMENTS AS LISTED AS A PART OF THE PROPERTIES LISTED IN THIS SECTION.
- 1.2.3 SUBSTITUTION: THE WORD SUBSTITUTION WILL BE APPLIED TO A PRODUCT PROPOSED FOR USE BY THE SUBCONTRACTOR THAT IS DIFFERENT THAN PRODUCTS SPECIFIED FOR THE PROJECT, BUT WILL ESSENTIALLY FUNCTION, OPERATE AND PERFORM IN A MANNER SIMILAR TO OR BETTER THAN THE SPECIFIED PRODUCT; WILL NOT ALTER CONSTRUCTION METHODS OR DIMENSIONS; AND WILL HAVE THE SAME VISUAL APPEARANCE, FIT AND FINISH INCLUDING ANY ADDITIONAL REQUIREMENTS AS LISTED AS A PART OF THE PROPERTIES LISTED IN THIS SECTION.

1.3 ADMINISTRATIVE REQUIREMENTS

- 1.3.1 GENERAL PROVISIONS: PROVIDE LABOUR, MATERIALS, PRODUCTS, EQUIPMENT, SERVICES AND ALL INCIDENTALS REQUIRED TO COMPLETE, TEST AND COMMISSION ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS OR NOTED IN THIS SPECIFICATION:
- 1. DRAWINGS ARE DIAGRAMMATIC EXCEPT WHERE SPECIFIC DETAILS ARE GIVEN.
- 2. OBTAIN ACCURATE DIMENSIONS FROM THE ARCHITECTURAL, STRUCTURAL, OR BY ONSITE MEASUREMENTS.
- 3. WHERE DIRECTED, RELOCATE OUTLETS AND FIXTURES TO WITHIN 3050 MM OF THE INDICATED LOCATION AT NO EXTRA COST PROVIDING THAT INSTRUCTIONS ARE GIVEN BEFORE THE INSTALLATION OF THE OUTLETS AND FIXTURES REQUIRING RELOCATION.
- 1.3.2 WORKMANSHIP: WORK SHALL BE COMPLIMENTARY TO THE BASE BUILDING DESIGN AND INSTALLATIONS:
- 1. WHERE AN EXACT METHOD OF INSTALLATION HAS NOT BEEN INDICATED, FOLLOW THE METHODS USED ON THE BASE BUILDING. 2. GENERALLY, THE STANDARD OF WORK SHALL BE EQUAL TO OR BETTER THAN THAT OF THE BASE BUILDING.
- 1.3.3 ADDITIONS OR CHANGES TO EXISTING SYSTEMS SHALL BE MADE USING EQUIPMENT IDENTICAL TO THAT ALREADY USED IN THE BASE BUILDING, E.G.: FIRE ALARM SYSTEM COMPONENTS, PANELS, ETCETERA
- 1.3.4 EXAMINATION OF SITE: VISIT THE SITE TO THOROUGHLY EXAMINE AND BECOME FAMILIAR WITH CONDITIONS WHICH MAY AFFECT THE WORK:
- NO CLAIMS FOR EXTRAS WILL BE ALLOWED FOR WORK OR MATERIALS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE 1.3.5 CONTRACT OR FOR THE BIDDER'S FAILURE, ERROR, OR NEGLIGENCE IN THIS REGARD.

1.4 SUBMITTALS

- 1.4.1 PROVIDE REQUIRED INFORMATION IN ACCORDANCE WITH GENERAL REQUIREMENTS: SUBMITTALS.
- 1.4.2 ACTION SUBMITTALS: PROVIDE THE FOLLOWING SUBMITTALS BEFORE STARTING ANY WORK OF THIS SECTION: 1. SHOP DRAWINGS: SUBMIT MANUFACTURER'S DETAILED DRAWINGS SHOWING DIMENSIONS, CAPACITIES, WEIGHTS, AND ELECTRICAL DATA AND PERFORMANCE CHARACTERISTICS FOR EQUIPMENT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
- 2. SERVICE EQUIPMENT
- 3. PANEL BOARDS
- 4. STARTERS
- 5. LIGHT FIXTURES
- 6. TELECOMMUNICATIONS EQUIPMENT
- 7. PHOTOVOLTAIC (PV) SYSTEM

8. OTHER ITEMS REASONABLY REQUESTED BY THE CONSULTANT, OR AS LISTED IN THESE SPECIFICATIONS.

1.5 RECORD DOCUMENTS (DRAWINGS AND SPECIFICATIONS)

- 1.5.1 SUBMIT AS CONSTRUCTED INFORMATION AS DESCRIBED IN THIS SECTION.
- 1.5.2 RECORD INFORMATION USING A RED PEN ON PRINTS AND SPECIFICATION MANUAL DEDICATED FOR THE USE OF RECORD DOCUMENTS. INDICATE ALL CHANGES AND VARIATIONS FROM CONTRACT DRAWINGS CONCURRENTLY WITH CONSTRUCTION PROCESS; DO NOT 1.5.3 CONCEAL ANY WORK UNTIL REQUIRED INFORMATION IS RECORDED.
- 1.5.4 INCLUDE SUFFICIENT INFORMATION ACCURATELY RECORDING ACTUAL CONSTRUCTION INCLUDING; BUT NOT LIMITED TO, THE FOLLOWING:
 - 1. MEASURED LOCATIONS OF INTERNAL UTILITIES AND APPURTENANCES CONCEALED IN CONSTRUCTION REFERENCED TO VISIBLE AND ACCESSIBLE FEATURES OF CONSTRUCTION.
- 2. SITE CHANGES OF DIMENSION AND DETAIL OR CHANGES IN CONSTRUCTION MATERIALS OR LOCATIONS REQUIRED BY ONSITE CONDITIONS AND TO MAKE COMPONENTS OF THE WORK COME TOGETHER.
- 3. CHANGES TO EQUIPMENT LAYOUT AND SERVICES.
- 4. DEVIATIONS IN PIPING, DUCT RUNS, WIRING, AND UTILITY CONNECTIONS.
- 5. ACTUAL LOCATIONS OF EQUIPMENT, POWER, DATA, AND COMMUNICATIONS LINES REFERENCED TO FIXED STRUCTURAL ELEMENTS FOR ITEMS THAT ARE SCHEMATICALLY INDICATED ON THE DRAWING.
- 6. CHANGES REQUIRED BY ADDENDA, BID REVISIONS, CHANGE ORDERS, WORK ORDERS AND CONSTRUCTION COMMUNICATIONS.
- 1.5.5 MAKE RECORDINGS IMMEDIATELY AFTER THE RESPECTIVE WORK IS COMPLETED AND NOT LESS THAN ONCE A WEEK; DATE EACH RECORDING.
- CHANGES TO SPECIFICATION SECTIONS SHALL BE LEGIBLY NOTED IN THE MARGINS OF THE DOCUMENT OR BY STAPLING A SHEET OF 1.5.6 WHITE PAPER TO THE MARGIN AND REFERENCING THE AFFECTED ARTICLE(S); USE OF ADHESIVE TAPE OR SELF-STICKING REMOVABLE NOTES WILL NOT BE ACCEPTABLE FOR THIS PURPOSE.
- 1.5.7 ARRANGE AND PAY FOR THE SERVICES OF THE CONSULTANT TO INCORPORATE INTO THE AUTOCAD DRAWING BASE.

1.6 QUALITY ASSURANCE

- 1.6.1 REGULATORY REQUIREMENTS: COMPLETE WORK IN ACCORDANCE WITH CURRENT CANADIAN ELECTRIC CODE, CSA STANDARDS, THE LOCAL ELECTRICAL INSPECTION AUTHORITY'S REQUIREMENTS, AND WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION:
- 1. SUBMIT THE NECESSARY PLANS AND INFORMATION TO THE ELECTRICAL INSPECTION AUTHORITY AND PAY FOR ALL PERMITS AND FEES AS REQUIRED BEFORE COMMENCEMENT OF WORK.
- 2. QUALIFICATIONS: PROVIDE PROOF OF QUALIFICATIONS WHEN REQUESTED BY CONSULTANT:
- 1.6.2 MATERIALS: USE ONLY NEW MATERIALS HAVING APPROPRIATE CSA LABELLING INDICATING APPROVAL, AND CONFORM WITH NEMA OR EEMAC STANDARDS WHERE APPLICABLE AND AS FOLLOWS: 1. ONLY USE NEW MATERIALS, EXCEPT WHERE SPECIFICALLY DETAILED OR INDICATED THAT EXISTING MATERIALS SHALL BE REUSED.
- 2. WORKMANSHIP: USE ONLY SKILLED WORKERS WHO PERFORM THEIR WORK IN A NEAT AND PROFESSIONAL MANNER; AS A MINIMUM, THE CONSULTANT WILL EXPECT THAT:
- 3. EXPOSED CONDUIT AND WIRING BE INSTALLED SQUARE AND PLUMB TO BUILDING LINES AND LEVELS.
- 4. DAMAGED OR INCORRECTLY INSTALLED MATERIALS BE REMOVED AND REPLACED.
- 5. DAMAGED FINISHES ARE RESTORED TO MATCH ORIGINAL FINISHES.
- 6. STRUCTURAL, ARCHITECTURAL OR MECHANICAL ITEMS ARE NOT DAMAGED, ALTERED, OR INTERFERED WITH BY INSTALLATION OF MATERIALS BY THIS SECTION, WHETHER CAUSED DIRECTLY OR INDIRECTLY BECAUSE OF THEIR WORK.
- 7. SITE IS LEFT CLEAN AND TIDY AT THE END OF EACH WORKDAY BY REMOVING TOOLS, EQUIPMENT, LADDERS, AND EMPTY CARDBOARD BOXES FROM SITE AND PREMISES ARE LEFT BROOM CLEAN AT THE END OF THE WEEK.

			2.5.10	ALLOW FOR A VARIATION OF 3050 MM FROM LOCATIONS SHOWN WITHOUT EXTRA (
PR	RODUCTS		2.5.11	MOUNTING HEIGHTS FROM FINISHED FLOOR TO CENTRE LINE OF DEVICE, UNLESS
2.1	ALTERNATES AND SUBSTITUTIONS			LOCATION AND DISTANCE
	2.1.1 BID PRICE SHALL BE BASED ON MATERIALS AND EQUIPMENT SPECIFIED; ALTERNATES WILL BE CONSIDERED FOR MATERIALS AND EQUIPMENT THAT PERFORM SIMILARLY TO OR BETTER THAN THE ACCEPTABLE MATERIALS OR BASIS-OF-DESIGN MATERIALS LISTED			 OUTLET BOXES ABOVE COUNTERS ON SPLASH BACKS OUTLET BOXES ABOVE BASE BOARD HEATERS AND RADIATION CABINETS
	AND AS FOLLOWS:			 GENERAL RECEPTACLES, TV AND COMMUNICATIONS OUTLET BOXES RECEPTACLES IN MECHANICAL AND SHOP AREAS: WASHER AND DRYER
	7. SUBMIT PROPOSED ALTERNATES WHERE ALTERNATE EQUIPMENT IS PROPOSED INDICATING PROPOSED COST SAVING OR IMPROVED VALUE TO THE PROJECT.			OUTLET BOXES
	 INCLUDE COSTS FOR ADDITIONAL WORK REQUIRED BY SUBSTITUTE MATERIALS WHERE THE CHANGE IN MATERIALS REQUIRES A CHANGE IN THE DESIGN BASED ON THE ORIGINALLY SPECIFIED EQUIPMENT, INCLUDING WORK REQUIRED BY OTHER 			SWITCHES, DIMMERS, PUSH BUTTONS
• •	DIVISIONS TO ACCOMMODATE ALTERNATE EQUIPMENT.			 WALL MOUNTED COMMUNICATIONS OUTLET BOXES, FIRE ALARM PULL STATIONS
2.2	2.2.1 PROVIDE FIRESTOP FOR ALL PENETRATIONS THROUGH FIRE RATED SEPARATIONS			END OF LINE RESISTORS DANEL BOARDS, ANNUNCIATOR RANELS, ETCETERA
	2.2.2 FIRESTOP MUST BE A COMPLETE SYSTEM, MEETING CAN/ULC FIRE RESISTANCE STANDARDS.			 PANEL BOARDS, ANNONCIATOR PANELS, ETCETERA FIRE ALARM BELLS, SPEAKERS, CLOCKS
2.3	CONDUIT		0 5 10	(HEIGHTS AS ABOVE OR IN BOTTOM OF NEAREST BLOCK OR BRICK COURSE)
	2.3.1 INSTALL WIRING IN EMT CONDUIT, EXCEPT WHERE SPECIFICALLY STATED OTHERWISE OR WHERE SUBJECT TO INJURY WHERE SAME		2.5.12	ALIGN ALL COVER PLATES PARALLEL AND PERPENDICULAR TO BUILDING LINES.
	SHALL BE RIGID METALLIC CONDUIT.		2.5.14	PROVIDE BLANK COVER PLATES FOR BOXES WITHOUT WIRING DEVICES.
	2.3.3 FLEXIBLE CABLE MAY BE USED FOR SHORT BRANCH CIRCUIT CONNECTIONS BETWEEN OUTLETS AND MOTORIZED EQUIPMENT, FIXED		2.0.10	
	APPLIANCES, ELECTRIC HEATING EQUIPMENT, IN ACCESSIBLE CEILING SPACES FOR FINAL CONNECTION TO LIGHTING FIXTURES AND FOR WIRING DEVICES IN CAVITY WALL CONSTRUCTION.	2.6	PHOTOVO 2.6.1	PRODUCT DATA:
	 2.3.4 INSTALL CONDUIT PARALLEL OR PERPENDICULAR TO BUILDING LINES WHEREVER POSSIBLE AND AS FOLLOWS: CONDUITS SHALL BE CONCEALED IN WALLS WHEREVER POSSIBLE, INCLUDING CMU WALLS. 			1. PROVIDE MANUFACTURER'S PRINTED PRODUCT LITERATURE, SPECIFICAT
	2. RUN ALL CONDUITS CONCEALED IN FINISHED AREAS.			 PERFORMANCE CRITERIA, PHYSICAL SIZE, FINISH, AND LIMITATIONS. PROVIDE COMPLETE PHOTOVOLTAIC POWER CALCULATIONS SHOWING A
	 CONDUTS IN SERVICE AREAS MAY BE SURFACE MOUNTED. MAINTAIN 50 MM BETWEEN PARALLEL CONDUITS IN CAST CONCRETE CONSTRUCTION, EXCEPT IMMEDIATELY ADJACENT TO 		262	SCHEMATIC AND SINGLE LINE DIAGRAM.
	CAST IN OUTLET BOXES, WHERE CONDUIT RUN CAN BE ADJUSTED TO FIT. 2.3.5 INSTALL A CONTINUOUS 180 KG TEST NYLON CORD IN ALL EMPTY CONDUITS, WITH CAP AT EACH END OF CONDUIT.		2.0.2	1. PROVIDE ALL MATERIAL, EQUIPMENT, AND SERVICES NECESSARY FOR A
	2.3.6 PROVIDE SUITABLE METAL BRACKETS, FRAMES, HANGERS, CLAMPS AND RELATED TYPES OF SUPPORT TO SUPPORT CONDUIT AND CABLE			2. THE PV SYSTEM SHALL PROVIDE AT LEAST 22kW OF POWER DURING PEAK
				 PROVIDE ONLY NEW EQUIPMENT WHICH BEARS THE ULC OR CSA LABELS. PROVIDE ALL REQUIRED EQUIPMENT AND METERING TO TORONTO HYDRO
	2.3.7 FASTEN EXPOSED CONDUITS TO BUILDING CONSTRUCTION OR SUPPORT SYSTEM USING ONE HOLE MALLEABLE IRON STRAPS.		2.6.3	PRODUCTS:
	FASTENING TO BUILDING CONSTRUCTION IS IMPRACTICAL.			 SOLAR PANELS CELL EFFICIENCY SHALL BE BETWEEN 14 AND 18% NORMAL
	2.3.9 SUPPORT CONDUITS FROM U-CHANNELS USING ONE PIECE PIPE CLAMPS.			CELL STRUCTURE SHALL BE MONOCRYSTALLINE.
	2.3.10 USE EMT CONDUIT WITH DIE CAST SET SCREW TYPE CONCRETE TIGHT COUPLINGS AND CONNECTORS IN DRY AREAS.			EACH CELL SHALL BE SQUARE IN SHAPE.CELL COLOUR SHALL BE BLUE.
	2.3.11 USE FLEXIBLE CONDUIT FOR CONNECTION TO MOTORS IN DRY AREAS AND DRY TYPE TRANSFORMERS.			• PEAK POWER OUTPUT SHALL BE 400W OR GREATER.
	THROAT FOR CONNECTION TO EQUIPMENT IN DAMP OR WET LOCATIONS.			 PHOTOVOLTAIC ARRAY SUPPORT STRUCTURES AND NECESSARY APPUR MUST BE CAPABLE OF BEING REPLACED WITHOUT DISRUPTING THE OPER
	2.3.13 INSTALL ALL SECURITY POWER AND COMMUNICATIONS WIRING IN CONDUIT. FREE AIR HOOKS OR CABLE TRAY WILL NOT BE ACCEPTED FOR SECURITY WIRING.			 CONNECTIONS BETWEEN THE MODULES AND COMBINER BOX SHALL CON RATED FOR 90°C WET CONDITIONS.
24				TRADE CONTRACTOR SHALL ARRANGE THE ARRAY PANELS IN SERIES AN ARE NOT EXCEEDED
2.4	2.4.1 BUILDING AND CONTROL WIRES SHALL BE 98% CONDUCTIVITY COPPER CONDUCTORS: SIZE AS INDICATED WITH 600 V INSULATION. CROSS			2. INVERTER
	LINKED THERMOSETTING POLYETHYLENE MATERIAL RATED RW90XL.			THE INVERTER SHALL CONTROL AND REGULATE THE OUTPUT OF THE INVERTER SHALL HAVE THE FOLLOWING:
	2.4.2 COMPUTER EQUIPMENT RECEPTACLES AND DEDICATED GROUND RECEPTACLES: PROVIDE SEPARATE NEUTRAL AND SEPARATE GROUND WIRES FOR EVERY CIRCUIT; NEUTRAL WIRES SHALL BE MINIMUM 12 AWG OR TO MATCH CIRCUIT CONDUCTOR SIZE IF LARGER; GROUND			OPERATING TEMPERATURE RANGE OF -40°C TO 60°C AMBIENT TEMPERAT
	WIRES SHALL BE MINIMUM 12 AWG.			 MUST BE A NEGATIVE GROUNDED SYSTEM. LCD DISPLAY THAT WILL SHOW ALL MONITORED PARAMETERS AND THEIR
	2.4.3 HOUSEKEEPING RECEPTACLES AND MISCELLANEOUS POWER AND LIGHTING CIRCUITS: PROVIDE SHARED NEUTRAL WIRES IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE; SHARED NEUTRAL SHALL BE MINIMUM 10 AWG; SHARED GROUND SHALL BE			 ADJUSTABLE LOW-VOLTAGE DISCONNECT (LVD) FOR LOAD CIRCUITS.
	MINIMUM 12 AWG.			 TWO LOAD CHANNELS THAT CAN BE CONTROLLED. COMMUNICATION VIA AN RS232 PORT.
	NEUTRAL WIRE SHALL BE MINIMUM 12 AWG.			REVERSE POLARITY PROTECTED.
	2.4.5 SIZE WIRE FOR BRANCH CIRCUITS TO LIMIT VOLTAGE DROP FROM THE PANELBOARD TO THE FURTHEST RECEPTACLE AT 3% WITH A TEST CURRENT OF 80% OF BRANCH CIRCUIT BREAKER RATING.			 TRANSIENT VOLTAGE PROTECTION. CIRCUIT BREAKERS ON ARRAY INPUTS AND LOAD OUTPUTS
	2.4.6 BRANCH CIRCUIT WIRING GUIDELINES:			INTEGRAL RAPID SHUTDOWN.
	1. POWER CONDUCTORS SMALLER THAN 12 AWG NOT PERMITTED.			WARNING ALARMS SHALL INCLUDE THE FOLLOWING. WARNING ALARMS SHALL CONSIST OF LEDs FOR LOW-VOLTAGE DISCONN
	2. WIRE FOR 120 VOLT CONTROL CIRCUITS: MINIMUM 14 AWG. 2.4.7 WIRE FOR 120 VOLT CIRCUITS USING SHARED NEUTRALS, MINIMUM WIRE SIZES AS FOLLOWS:			 ALARM SETTINGS ARE TO BE DETERMINED BY SYSTEM DESIGNERS BASE RECOMMENDATIONS.
	1. 12 AWG FOR RUNS UP TO 23 M.			
	 10 AWG FOR RUNS OF 23 M TO 37 M. RUNS IN EXCESS OF 37 M SHALL USE A WIRE SIZE THAT COMPLIES WITH THE REQUIREMENTS OF ITEM PART 2.4.5 ABOVE 	4.1	4.1.1	OBTAIN CONSULTANT'S INTERPRETATION OR CLARIFICATION ON THE SPECIFICA
	2.4.8 WIRE FOR 120 VOLT CIRCUITS USING SEPARATE NEUTRALS, MINIMUM WIRE SIZES AS FOLLOWS:			1. CORRECT COMPLETED WORK INSTALLED CONTRARY TO THE INTENT OF T
	1. 12 AWG FOR RUNS UP TO 20 M.			 2. NOTIFY THE CONSULTANT AS WORK PROGRESSES WHERE ADDITIONAL C
	 10 AWG FOR RUNS OF 20 M TO 35 M. RUNS IN EXCESS OF 35 M SHALL USE A WIRE SIZE THAT COMPLIES WITH THE REQUIREMENTS OF ITEM PART 2.4.5 ABOVE. 		4.1.2	REQUIRED. CLEAN AND TOUCHUP SURFACES OF SHOP PAINTED EQUIPMENT SCRATCHED OI
	4. HOMERUNS SHALL NOT BE LESS THAN 10 AWG.		4.1.3	COMPLETE CORING, CUTTING AND PATCHING USING QUALIFIED SPECIALISTS; O
	1. 12 AWG FOR RUNS UP TO 90 M.		4.1.4	CUTTING WORK. IDENTIFY ELECTRICAL EQUIPMENT WITH LAMACOID NAMEPLATES MINIMUM 13 M
	 2. 10 AWG FOR RUNS OF 90 M UP TO A DISTANCE THAT ENSURES COMPLIANCE WITH THE REQUIREMENTS OF ITEM PART 2.4.5 		115	SUBJECT TO THE ACCEPTANCE OF THE CONSULTANT.
	2.4.10 WIRE FOR DC EMERGENCY LIGHTING CIRCUITS, MINIMUM SIZE AS FOLLOWS:		4.1.5	OTHER PARTS OF THE WORK:
	1. 10 AWG OR LARGER SIZE WHERE REQUIRED TO COMPLY WITH REQUIREMENTS OF ITEM PART 2.4.5 ABOVE; COORDINATE WITH			 PROTECT ALL FINISHES AND UNFINISHED WORK OF THIS AND OTHER DIVIS KEEP EQUIPMENT DRY AND CLEAN AT ALL TIMES.
	EQUIPMENT MANUFACTURER'S WRITTEN RECOMMENDATIONS. 2.4.11 SIZE CONDUCTORS IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE WHERE WIRE SIZES ARE NOT INDICATED ON THE			3. COVER OPENINGS IN EQUIPMENT AND MATERIALS.
	DRAWINGS. 2.4.12 WIRING FOR FIRE ALARM, SECURITY, PAGING AND SIMILAR SYSTEMS SHALL MATCH BASE BUILDING WIRING, OR AS RECOMMENDED BY			4. BE RESPONSIBLE FOR AND MAKE GOOD ANY DAMAGE CAUSED DIRECTLY FINISHES, ETCETERA
	THE SYSTEM MANUFACTURER.			5. PACK SPACE BETWEEN WIRING AND SLEEVE FULL WITH MINERAL WOOL F MANUFACTURER'S WRITTEN INSTRUCTIONS WHERE CABLES OR CONDUIT
	VOLTAGE, TELEVISION, DATA, COMMUNICATION, AND ALL TYPES OF WIRING. WIRING SHALL ALSO BE SUITABLE TO EQUIPMENT MANUEACTURER'S REQUIREMENTS		4.1.6	CONDUCT FINAL CLEANING UPON COMPLETION OF WORK INCLUDING, BUT NOT L
	2.4.14 ALL WIRES IN CLASS 1, GROUP 1, ZONE 1 AND ZONE 2 AREAS MUST BE OIL AND GAS RESISTANT.			 CLEAN LIGHTING REFLECTORS, LENSES, AND OTHER LIGHTING SURFACES CLEAN AND REFINISH EXPOSED FOULIPMENT, AND REPLACE ANY BROKEN
	2.4.15 ALL PETROLEUM WIRING MUST BE COLOUR CODED AND/OR LABELED SUCH THAT WIRING IS EASILY IDENTIFIABLE.		4.1.7	GUARANTY MATERIALS, EQUIPMENT, AND INSTALLATIONS TO BE FREE OF ALL DE
	OTHER THAN THOSE SPECIFIED BY PETROLEUM EQUIPMENT MANUFACTURER.			PERFORMANCE IN ACCORDANCE WITH GENERAL CONDITIONS OF CONTRACT.
	2.4.17 ELECTRICAL CONTRACTOR TO ALLOW FOR PLENOM RATED CABLING/CONDUIT IN ALL PLENOMS AS PER ARCHITECTURAL AND/OR MECHANICAL DRAWINGS. THIS WILL INCLUDE ANY CEILING SPACES BEING USED FOR RETURN AIR (I.E. FAN COIL UNITS, COMPARTMENT	4.2	SITE QUA	LITY CONTROL
	REQUIRED ON WHERE PLENUMS MAY BE PRESENT, AN REFIS TO BE RAISED DURING TENDER.		4.2.1	THAT MAY ALREADY BE INSTALLED IN THE FACILITY.
2.5	WIRING DEVICES AND COVER PLATES			1. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN
	2.5.1 SPECIFICATION GRADE DEVICES SHALL BE USED.			2. MEASURE PHASE VOLTAGES AT LOADS AND ADJUST TRANSFORME
	2.5.2 COVER PLATES SHALL BE WHITE NYLON MOLDED, UNLESS NOTED OTHERWISE.		4.2.2	PERFORM ALL NECESSARY TESTS TO CONFIRM THE CORRECT OPERATION
	AS "DED.CCT#".		4.2.3	SUBMIT LETTERS FROM MANUFACTURERS OF ALL SYSTEMS INDICATING SYSTEM AND ARE SATISFIED WITH THE METHODS OF INSTALLATION, CON
	2.5.4 PROVIDE JUNCTION AND OUTLET BOXES WHERE NECESSARY FOR PROPER PULLING OF WIRES.		4.2.4	SUBMIT ALL TEST RESULTS TO THE CONSULTANT FOR APPROVAL.
	2.5.5 PROVIDE OUTLET BOX FOR LIGHTING SWITCHES, FIXTURES, RECEPTACLES, EACH WIRING DEVICE, AND COMMUNICATION OUTLET AND AS INDICATED.		4.2.5	CONTRACTOR TO ARRANGE FOR CONSULTANT SITE INSPECTION AT THE 1. ELECTRICAL SITE WORKS PRIOR TO BURIAL OF ELECTRICAL CONDU
	2.5.6 USE ONE-PIECE ELECTRO-GALVANIZED STEEL BOXES.			2. COMPLETION OF ELECTRICAL ROUGH-IN.
	2.5.7 PROVIDE GANG BOXES WHERE WIRING DEVICES ARE GROUPED. COMBINATION BOXES WITH BARRIERS WHERE OUTLETS FOR MORE THAN ONE SYSTEM ARE GROUPED.		426	3. SUBSTANTIAL COMPLETION OF ELECTRICAL INSTALLATION. PHOTOVOLTAIC (PV) SYSTEM TESTS
	2.5.8 SUPPORT BOXES INDEPENDENTLY OF CONNECTING CONDUITS. 2.5.9 DO NOT INSTALL OUTLET BOXES BACK-TO-BACK IN WALLS [.]		2.0	1. THE FOLLOWING TESTS SHALL BE PERFORMED BY THE TRADE CONTRACT INITIAL "BURNING OF THE DOMED SYSTEM COMPONENTS, THE TRADE CONTRACT
	1. NON-ACOUSTIC WALLS: ALLOW MINIMUM 150 MM HORIZONTAL CLEARANCE BETWEEN BOXES.			DETAILS OF THE FOLLOWING TESTS TO BE COMPLETED BY THE TRADE CO
	 ACOUSTICALLY RATED WALLS: OFFSET OUTLET BOXES BY 610 MM SEPARATED BY ONE STUD SPACE OR GYPSUM BOARD BAFFLE; COORDINATE WITH DIVISION 09 - GYPSUM BOARD ASSEMBLIES. 			1.1. NORMAL OPERATION MODEPLACE SYSTEM IN NORMAL OPERATING MODE.
	3. PARTY WALLS: OFFSET OUTLET BOXES BY 1000 MM SEPARATED BY TWO STUD SPACES AND GYPSUM BOARD BAFFLES.			 CONNECT EACH LOAD BANK TO THE LOAD PANELS AND OPERATE THE SY BATTERY STATE-OF-CHARGE IS APPROXIMATELY 45 TO 50%
				1.1. NORMAL LOAD TEST
				 VERIFY THE SYSTEM IS IN NORMAL OPERATING MODE FOLLOWING THE AI THE TRADE CONTRACTOR SHALL CONNECT THE BUILDING LOADS TO THE

SHOWN WITHOUT EXTRA COST; CONFIRM FINAL LOCATION BEFORE INSTALLATION. ELINE OF DEVICE, UNLESS INDICATED OTHERWISE, SHALL BE:

BACKS AND RADIATION CABINETS TIONS OUTLET BOXES EAS; WASHER AND DRYER

225 MM ABOVE COUNTER 200 MM ABOVE ENCLOSURE 400 MM 950 MM

1150 MM

1350 MM 1800 MM 1900 MM TO TOP OF PANEL 2300 MM

E SINGLE GANG BOXES ONLY

CT LITERATURE, SPECIFICATIONS, AND DATA SHEETS, AND INCLUDE PRODUCT CHARACTERISTICS, ISH. AND LIMITATIONS. CALCULATIONS SHOWING AMP HOURS PRODUCED, ROOFTOP PANEL LAYOUTS, ELECTRICAL WIRING

VICES NECESSARY FOR A COMPLETE AND OPERATIONAL PV ARRAY SYSTEM. W OF POWER DURING PEAK OPERATION. S THE ULC OR CSA LABELS.

ERING TO TORONTO HYDRO DISTRIBUTION GENERATION REQUIREMENTS.

ATER.

S AND NECESSARY APPURTENANCES FOR MOUNTING THE ARRAY SHALL BE PROVIDED. EACH MODULE OUT DISRUPTING THE OPERATION OF THE REMAINDER OF THE SYSTEM. COMBINER BOX SHALL CONSIST OF FLEXIBLE CONDUITS WITH LIQUID-TIGHT FITTINGS AND UL-LISTED WIRE

RRAY PANELS IN SERIES AND/OR PARALLEL AS DETERMINED BY THE INVERTER TO ENSURE TOLERANCES

LATE THE OUTPUT OF THE PV ARRAY. THE CONTROLLER SHALL BE A SERIES TYPE ON/OFF CONTROL. THE

O 60°C AMBIENT TEMPERATURES.

D PARAMETERS AND THEIR SETTINGS, AND THE SETTINGS SHALL BE PASSWORD-PROTECTED. D) FOR LOAD CIRCUITS.

R LOW-VOLTAGE DISCONNECT, HIGH-VOLTAGE ALARM, AND GENERATOR FAULT. SYSTEM DESIGNERS BASED ON THE SELECTED COMPONENTS AND MANUFACTURER'S

ICATION ON THE SPECIFICATIONS AND DRAWINGS BEFORE PROCEEDING WITH THE WORK:

TRARY TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS AT THEIR OWN EXPENSE, WHERE IT CAN D HAVE BEEN ISSUED.

SES WHERE ADDITIONAL CLARIFICATION OR INTERPRETATION OF THE SPECIFICATIONS AND DRAWINGS IS EQUIPMENT SCRATCHED OR MARRED DURING SHIPMENT OR INSTALLATION, TO MATCH ORIGINAL PAINT.

QUALIFIED SPECIALISTS; OBTAIN WRITTEN APPROVAL FROM CONSULTANT BEFORE STARTING CORING OR

IAMEPLATES MINIMUM 13 MM HEIGHT; INDICATE VOLTAGE, USAGE, AND OTHER PERTINENT INFORMATION

ON SITE TO AVOID INTERFERENCE OF SYSTEMS INSTALLED BY THIS SECTION AND THOSE INSTALLED BY

K OF THIS AND OTHER DIVISIONS FROM DAMAGE DUE TO CARRYING OUT OF THIS WORK.

ALS.

AMAGE CAUSED DIRECTLY OR INDIRECTLY TO WALLS, FLOORS, CEILINGS, WOODWORK, BRICKWORK,

JLL WITH MINERAL WOOL FIRE STOPPING AND FIRE RATED SILICONE SEALANT IN ACCORDANCE WITH HERE CABLES OR CONDUITS PASS THROUGH FLOORS AND FIRE RATED WALLS. ORK INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

THER LIGHTING SURFACES THAT HAVE BEEN EXPOSED TO CONSTRUCTION DUST AND DIRT. AND REPLACE ANY BROKEN OR MALFUNCTIONING COMPONENTS. INS TO BE FREE OF ALL DEFECTS FOR A PERIOD OF TWELVE MONTHS FROM THE DATE OF SUBSTANTIAL DITIONS OF CONTRACT.

L BOARDS WITH NORMAL LIGHTING LOADS OPERATING, ALONG WITH ANY OTHER NORMAL LOADS

AS REQUIRED TO OBTAIN BALANCE OF CURRENT BETWEEN PHASES NOT EXCEEDING 10%

D ADJUST TRANSFORMER TAPS TO WITHIN 2% OF RATED VOLTAGE OF EQUIPMENT. HE CORRECT OPERATION OF ALL SYSTEMS AFFECTED BY THE RENOVATIONS.

L SYSTEMS INDICATING THAT THEY HAVE CHECKED, TESTED AND VERIFIED THE RESPECTIVE S OF INSTALLATION, CONNECTION AND OPERATION.

FOR APPROVAL. SITE INSPECTION AT THE FOLLOWING STAGES OF CONSTRUCTION:

L OF ELECTRICAL CONDUCTORS AND CONDUITS.

VOLTAGE CONDITIONS.

BY THE TRADE CONTRACTOR TO VERIFY THE PROPER SYSTEM OPERATION IN ALL MODES AND PROVIDE IPONENTS. THE TRADE CONTRACTOR SHALL PROVIDE FOUR LOAD BANKS TO PERFORM THE TESTS. MPLETED BY THE TRADE CONTRACTOR.

IELS AND OPERATE THE SYSTEM FOR APPROXIMATELY 20 TO 24 HOURS CONTINUOUSLY, SUCH THAT THE LY 45 TO 50%.

MODE FOLLOWING THE ABOVE TEST. E BUILDING LOADS TO THE APPROPRIATE LOAD PANEL FOR OPERATIONAL TESTING UNDER LOW

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND CONDITIONS ON THE JOB. DO NOT SCALE DRAWINGS ALL DRAWING SPECIFICATIONS AND RELATED DOCUENTS ARE THE COPYRIGHT PROPERTY OF THE RCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWII PECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE ARCHITECT.

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BLUFFER'S PARK

EAST WASHROOM

1 Brimley Road South Scarborough, Toronto, ON

Drawing Title

ELECTRICAL SPECIFICATIONS

Print Date 2025-04-11 Scale NONE Project No. 0010052.000 Drawn by LT Checked by JN

STANDARD TRCA ENVIRONMENTAL REQUIREMENTS

STANDARD NOTES:

- PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND\OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
- 2. DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
- 3. ALL IN-WATER AND NEAR WATER WORKS WILL BE CONDUCTED IN THE DRY WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
- 4. THE ESC STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE, ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE IMPACTS. A TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED, AS NECESSARY.
- 5. AN ENVIRONMENTAL MONITOR EMPLOYED BY THE CONTRACTOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS IMMEDIATELY AFTER INSTALLATION. INSPECTION OF ESC MEASURES WILL OCCUR, AT MINIMUM: - ON A WEEKLY BASIS;
- PRIOR TO SIGNIFICANT RAINFALL EVENTS (MINIMUM PREDICTED 25mm OVER 24 HOURS);
- AFTER EVERY RAINFALL / SNOWMELT EVENT; AND DAILY DURING EXTENDED RAINFALL PERIODS. INSPECTIONS WILL FOCUS ON MEATURES RELATED TO ESCS, DEWATERING OR UNWATERING, OR RESTORATION IN- OR NEAR- WATER WORKS AND PROOVIDE ADVICE TO ENSURE THAT ACTIVITIES AS PER THE APPROVED TRCA PERMIT ARE EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. SHOULD CONCERNS ARISE ON SITE. THE ENVIRONMENTAL MONITOR WILL CONTACT THE TRCA ENFORCEMENT OFFICER (FOR APPROVED PERMITS) AND PROJECT MANAGER (FOR ISSUED VOLUNTARY PROJECT REVIEW) AS WELL AS THE PROPONENT, IF ISSUES ARISE.
- 6. ALL GRADES WITHIN THE REGULATED AREA WILL BE MAINTAINED OR MATCHED.
- 7. THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGULATORY FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW (E.G., FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.).

- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED 8. ALL DEWATERING / UNWATERING SHALL BE FILTERED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR OTHER REGULATED FEATURE OR HAZARD, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVES OF THE ESC MEASURES.
 - 9. ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE.
 - 10. NO STAGING OR STORAGE WILL OCCUR WITHIN TRCA'S REGULATED AREA, UNLESS SHOWN ON THE APPROVED DRAWINGS.

ENVIRONMENTAL COMPLIANCE:

- 11. PLEASE NOTIFY TRCA ENFORCEMENT OFFICER 48 HOURS PRIOR TO COMMENCING CONSTRUCTION: TRCA ENFORCEMENT (T; 437-880-2124; E: Inspections@trca.ca) FOR APPROVED PERMITS AND THE TRCA PROJECT MANAGER FOR ISSUED VOLUNTARY PROJECT REVIEWS. PLEASE ENSURE YOU QUOTE THE TRCA FILE NUMBER OR TRCA PERMIT NUMBER IN YOUR NOTIFICATION.
- 12. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TRCA EROSION AND SEDIMENT CONTROL GUIDELINE FOR URBAN CONSTRUCTION (2019).

CONSTRUCTION TIMING:

- 13. IN ORDER TO COMPLY WITH THE MIGRATORY BIRDS CONVECTION ACT, TRCA RECOMMENDS THAT TREE REMOVALS BE COMPLETED BETWEEN AUGUST 1 AND APRIL 1. TO PROTECT LOCAL FISH POPULATIONS DURING THEIR SPAWNING, NURSERY AND MIGRATORY PERIODS, IN-WATER ACTIVITIES, MAY ONLY OCCUR DURING THE FOLLOWING TIME PERIOD JULY 15 TO SEPT 15
- FISH AND WILDLIFE RELOCATION: 14. FISH AND WILDLIFE STRANDED WITHIN THE WORK AREA SHALL BE CAPTURED AND RELEASED LIVE IN SUITABLE HABITAT UPSTREAM OF THE WORK AREA UNDER THE SUPERVISION OF A QUALIFIED AQAUTIC BIOLOGIST. A PERMIT FROM THE MINISTRY OF NATURAL RESOURCES IS REQUIRED.

PERMIT PROCUREMENT:

15. REFER TO CONTRACT SPECIFICATIONS FOR ROLE AND RESPONSIBILITY OF CONTRACTOR WITH RESPECT TO APPLYING FOR AND PROCURING CONSTRUCTION PERMITS FROM TRCA AND SUBMITTAL REQUIREMENTS FOR ENVIRONMENTAL PROTECTION PLAN(S) AND/OR EROSION & SEDIMENT CONTROLS.

Ravine & Natural Feature Protection By-law

The Ravine & Natural Feature Protection By-law, Chapter 658 of the City of Toronto Municipal Code regulates the injury and destruction of trees, dumping of refuse and changes to grade within protected areas defined in Schedule A.

Under this By-law protected trees may not be removed, injured or destroyed, and protected grades may not be altered, without written authorisation from Urban Forestry Ravine & Natural Feature Protection, on behalf of the General Manager of Parks, Forestry & Recreation. **Convictions of offences respecting the regulations in the Ravine & Natural Feature Protection** By-law are subject to fines, and the landowner may be ordered by the court to restore the area to the satisfaction of the City. A person convicted of an offence under this By-law is liable to a minimum fine of \$500 and a maximum fine of \$100,000 for each tree destroyed, a maximum fine of \$100,000 for any other offence committed under this chapter, and/or a Special fine of \$100,000. A person convicted of a continuing offence, including failure to comply with ravine permit conditions is liable to a maximum fine of not more than \$10,000 for each day or part of a day that the offence continues. RNFP 0608

BLUFFER'S PARK IS LOCATED ENTIRELY WITHIN TORONTO REGION CONSERVATION **AUTHORITY (TRCA) AND TORONTO RAVINE &** NATURAL FEATURE PROTECTION (RNFP) **REGULATED AREAS AND SUBJECT TO ALL APPLICABLE TRCA AND RNFP REGULATIONS.**

05 2025-04-11 ISSUED FOR TENDER 04 2024-11-22 ISSUED FOR TRCA PERMIT **ISSUED FOR** 03 2024-09-19 **BUILDING PERMIT** 02 2024-06-26 **ISSUED FOR TRCA PERMIT** 01 2023-01-31 50%-ISSUED FOR COSTING NO. DATE DESCRIPTION ISSUE RECORD

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL INFORM THE LANDSCAPE ARCHITECTS IMMEDIATELY OF ANY DISCREPANCY OR VARIATION FROM THE DRAWINGS, DO NOT SCALE THE DRAWINGS. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE LANDSCAPE ARCHITECT. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION.



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BLUFFER'S PARK EAST WASHROOM 1 BRIMLEY ROAD SOUTH SCARBOROUGH, TORONTO, ONTARIO | M1M

DRAWING TITLE:

NOTES

PRINT DATE: 2025-04-14 SCALE:

PROJECT NO. 21029 DRAWN BY: LD CHECKED BY: JR



LEGEND

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	LIMIT OF WORK
PF TPF	TREE PROTECTION FENCE
	SHORELINE FLOODING HAZARD LIMIT
	100 YEAR FLOOD LEVEL
	EXISTING STRUCTURE TO BE REMOVED
	EXISTING SOFTSCAPE / SOIL TO BE REMOVED TO REQUIRED DEPTH
	EXISTING ASPHALT PAVING TO BE REMOVED TO REQUIRED DEPTH
	EXISTING CONC. PAVING TO BE REMOVED TO REQUIRED DEPTH
	EXISTING GRAVEL PATH TO BE REMOVED TO REQUIRED DEPTH
\otimes	UTILITY POLE TO BE REMOVED
	SITE ELEMENT TO REMAIN AND BE PROTECTED
×	SITE ELEMENT TO BE REMOVED
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EXISTING SIGNAGE TO BE	
RELOCATED	

EXISTING TREE TO BE REMOVED (SEE TREE PROTECTION PLAN L-102)

05	2025-04-11	ISSUED FOR TENDER	
04	2024-11-22	ISSUED FOR TRCA PERMIT	
03	2024-09-19	ISSUED FOR BUILDING PERMIT	
02	2024-06-26	ISSUED FOR TRCA PERMIT	
01	2023-01-31	50%-ISSUED FOR COSTING	
NO.	DATE	DESCRIPTION	
ISSUE RECORD			

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BLUFFER'S PARK EAST WASHROOM 1 BRIMLEY ROAD SOUTH SCARBOROUGH, TORONTO, ONTARIO | M1M

DRAWING TITLE:

DEMOLITION PLAN

PRINT DATE: 2025-04-14 SCALE: 1:200 PROJECT NO. 21029 DRAWN BY: LD CHECKED BY: JR

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Ravine & Natural Feature Protection By-law

The <u>Ravine & Natural Feature Protection By-law</u>, Chapter 658 of the City of Toronto Municipal Code regulates the injury and destruction of trees, dumping of refuse and changes to grade within protected areas defined in Schedule A.

Under this By-law protected trees may not be removed, injured or destroyed, and protected grades may not be altered, without written authorisation from Urban Forestry Ravine & Natural Feature Protection, on behalf of the General Manager of Parks, Forestry & Recreation. Convictions of offences respecting the regulations in the Ravine & Natural Feature Protection By-law are subject to fines, and the landowner may be ordered by the court to restore the area to the satisfaction of the City. A person convicted of an offence under this By-law is liable to a minimum fine of \$500 and a maximum fine of \$100,000 for each tree destroyed, a maximum fine of \$100,000 for any other offence committed under this chapter, and/or a Special fine of \$100,000. A person convicted of a continuing offence, including failure to comply with ravine permit conditions is liable to a maximum fine of not more than \$10,000 for each day or part of a day that the offence continues. RNFP *0608*

BLUFFER'S PARK IS LOCATED ENTIRELY WITHIN TORONTO REGION CONSERVATION AUTHORITY (TRCA) AND TORONTO RAVINE & NATURAL FEATURE PROTECTION (RNFP) REGULATED AREAS AND SUBJECT TO ALL APPLICABLE TRCA AND RNFP REGULATIONS.





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04	2024-11-2	2	ISSUED FOR TRCA PERMIT	
03	2024-09-1	9	ISSUED FOR BUILDING PERMIT	
02	2024-06-2	6	ISSUED FOR TRCA PERMIT	
01	2023-01-3	1	50%-ISSUED FOR COSTING	
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Ravine & Natural Feature Protection By-law

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BLUFFER'S PARK IS LOCATED ENTIRELY WITHIN TORONTO REGION CONSERVATION **AUTHORITY (TRCA) AND TORONTO RAVINE &** NATURAL FEATURE PROTECTION (RNFP) **REGULATED AREAS AND SUBJECT TO ALL APPLICABLE TRCA AND RNFP REGULATIONS.**

LAYOUT AND MATERIALS NOTES

- 1. EXISTING CONDITIONS ARE FROM TOPOGRAPHIC SURVEY BY: J. H. GELBLOOM SURVEYING LIMITED, DATED JUNE 23rd 2022.
- 2. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE TOTAL SCOPE OF WORK AND ALL REQUIRED COORDINATIONS. 3. THE CONTRACTOR IS RESPONSIBLE FOR A THOROUGH SITE EXAMINATION TO
- SATISFY HIM OR HERSELF AS TO THE ACTUAL SITE CONDITIONS PRIOR TO SUBMISSION OF BIDS. 4. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO
- EXCAVATION.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING THE LOCATIONS OF ALL SITE ELEMENTS TO BE RESET IN THEIR SAME HORIZONTAL LOCATION. 6. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE
- RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 7. REQUIRED SHOP DRAWINGS SHALL BE BASED ON FIELD MEASUREMENT AND LAYOUT VERIFICATION BY THE CONTRACTOR. 8. WHERE APPLICABLE THE LIMIT OF WORK LINE IS THE FACE OF THE BUILDING AND
- AS OTHERWISE NOTED ON THE PLANS. 9. ALL WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY ARE TO BE MUNICIPAL
- STANDARDS. 10. STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE IN AND WITHIN LIMITS OF WORK AS SHOWN ON PLANS AND AS APPROVED BY THE
- LANDSCAPE ARCHITECT 11. EXPANSION JOINT FILLER SHALL BE PLACED WHERE PAVEMENT MEETS STRUCTURES - INCLUDING WALLS, LIGHT POLES, HYDRANTS, BUILDINGS AND BUILDING COLUMNS, STAIRS AND AT OTHER CONDITIONS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL REQUEST THE PRESENCE OF THE LANDSCAPE ARCHITECT TO REVIEW THE LAYOUT OF EXPANSION JOINTS AND CONTROL JOINTS PRIOR TO PLACING FINISHED WORK.
- 12. EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES AND WITHIN DRIP LINE OF TREES DESIGNATED TO REMAIN SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE UTILITY COMPANIES OR THE OWNER.
- 13. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO

PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS OR ABUTTING PROPERTY.

- 14. SEE CIVIL FOR UNDERGROUND UTILITIES. 15. CONTRACTOR TO LAYOUT AND LOCATE ALL FEATURES AND REPORT ANY
- DISCREPANCIES TO CONSULTANT PRIOR TO COMMENCEMENT OF WORK. 16. REFER TO ELECTRICAL PLANS FOR ALL LIGHT FIXTURES AND SCHEDULE.
- 17. CONTRACTOR TO VERIFY LOCATION AND INSTALLATION METHOD OF ALL SIGNS WITH THE CITY OF TORONTO STAFF ON SITE PRIOR TO INSTALLATION.



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05 202	25-04-11	ISSUED FOR TENDER	
04 202	24-11-22		
03 202	24-09-19	BUILDING PERMIT	
2 202	24-06-26	ISSUED FOR TRCA PERMIT	
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EAST WASHROOM

LAYOUT AND MATERIAL

_-20'



GRADING LEGEND

	LIMIT OF WORK
— TPF — TPF —	TREE PROTECTION FENCE
	SHORELINE FLOODING HAZARD LIMIT
	100 YEAR FLOOD LEVEL
LAYOUT AND	MATERIALS
()	EXISTING TREE
	PROPOSED TREE
GRADING	
A.H. +	EXISTING SPOT ELEVATION
+ XX.XX	PROPOSED SPOT ELEVATION
2%	PROPOSED SLOPE
HP LP	HIGH POINT LOW POINT
TC BC	TOP OF CURB BOTTOM OF CURB

05	2025-04-11	ISSUED FOR TENDER		
04	2024-11-22	ISSUED FOR TRCA PERMIT		
03	2024-09-19	ISSUED FOR BUILDING PERMIT		
02	2024-06-26	ISSUED FOR TRCA PERMIT		
01	2023-01-31	50%-ISSUED FOR COSTING		
NO.	DATE	DESCRIPTION		
ISSU	ISSUE RECORD			

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BLUFFER'S PARK EAST WASHROOM 1 BRIMLEY ROAD SOUTH SCARBOROUGH, TORONTO, ONTARIO | M1M

DRAWING TITLE:

GRADING PLAN

PRINT DATE: 2025-04-14 SCALE: 1:200 PROJECT NO. 21029 DRAWN BY: LD CHECKED BY: JR

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Ravine & Natural Feature Protection By-law

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GRADING NOTES

- 1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND SHALL REPORT ANY DISCREPANCIES BETWEEN EXISTING AND PROPOSED CONDITION TO THE LANDSCAPE ARCHITECT.
- 2. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 3. COMPACT SUBGRADE PRIOR TO ANY FINISH GRADING. REMOVE ALL SOFT SPOTS OBSERVED OR IDENTIFIED IN FIELD.
- 4. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF 1%. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
- 5. CATCH BASIN AND RIM ELEVATIONS PROVIDED FOR REFERENCE ONLY. FOR ALL DRAINAGE STRUCTURES, SEE CIVIL DRAWINGS.
- 6. EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES AND WITHIN DRIP LINE OF TREES DESIGNATED TO REMAIN SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE UTILITY COMPANIES OR THE OWNER.
- 7. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS OR ABUTTING PROPERTY.
- 8. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK, SMOOTHLY BLEND LINE AND GRADE OF EXISTING WITH NEW.
- 9. MEET EXISTING GRADES AT LIMIT OF WORK.
- 10. REFER TO CIVIL DRAWINGS FOR PROTECTION OR ADJUSTMENT OF EXISTING UTILITY FRAMES TO NEW PAVING SURFACES WHERE NECESSARY.
- 11. ALL PICNIC TABLE CONCRETE SLABS TO MATCH EXISTING ADJACENT GRADES. SLOPE FOR POSITIVE DRAINAGE.

GRADING LEGEND

BC

	LIMIT OF WORK		
TPF TPF	TREE PROTECTION FENCE		
	SHORELINE FLOODING HAZARD LIMIT		
	100 YEAR FLOOD LEVEL		
LAYOUT AND) MATERIALS		
()	EXISTING TREE		
	PROPOSED TREE		
GRADING			
$A_{t} + A_{t}$	EXISTING SPOT ELEVATION		
+ XX.XX	PROPOSED SPOT ELEVATION		
2%	PROPOSED SLOPE		
HP LP	HIGH POINT LOW POINT		
TC BC	TOP OF CURB BOTTOM OF CURB		

05	2025-04-11	ISSUED FOR TENDER	
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NO.	DATE	DESCRIPTION	
ISSUE RECORD			

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL INFORM THE LANDSCAPE ARCHITECTS IMMEDIATELY OF ANY DISCREPANCY OR VARIATION FROM THE DRAWINGS, DO NOT SCALE THE DRAWINGS. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE LANDSCAPE ARCHITECT. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

425 Adelaide St. W Suite 600 Toronto, Ontario M5V 3C1

T 416 968 7908 www.dtah.com

BLUFFER'S PARK EAST WASHROOM 1 BRIMLEY ROAD SOUTH SCARBOROUGH, TORONTO, ONTARIO | M1M

DRAWING TITLE:

GRADING PLAN

PRINT DATE: 2025-04-14 SCALE: PROJECT NO. 21029 DRAWN BY: CHECKED BY: JR

1:200 LD

_-30′

Ravine & Natural Feature Protection By-law The Ravine & Natural Feature Protection By-law, Chapter 658 of the City of Toronto Municipal Code regulates the injury and destruction of trees, dumping of refuse and changes to grade within protected areas defined in Schedule A. Under this By-law protected trees may not be removed, injured or destroyed, and protected grades may not be altered, without written authorisation from Urban Forestry Ravine & Natural Feature Protection, on behalf of the General Manager of Parks, Forestry & Recreation. Convictions of offences respecting the regulations in the Ravine & Natural Feature Protection By-law are subject to fines, and the landowner may be ordered by the court to restore the area to the satisfaction of the City. A person convicted of an offence under this By-law is liable to a minimum fine of \$500 and a maximum fine of \$100,000 for each tree destroyed, a maximum fine of \$100,000 for any other offence committed under this chapter, and/or a Special fine of \$100,000. A person convicted of a continuing offence, including failure to comply with ravine permit conditions is liable to a maximum fine of not more than \$10,000 for each day or part of a day that the offence continues. RNFP 0608 ŚBÌ OF SEED MIX EXISTING SOD REPAIR AS NEEDED PLANT SCHEDULE

47.6m² OF

SEED MIX*

Yo

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3

CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	SIZE	CONT.	REMAR
TREES						
AR	7	Acer rubrum	Red Maple	70mm Cal.		
AO	5	Acer rubrum 'October Glory'	October Glory Red Maple	70mm Cal.	W.B.	
AS	4	Acer saccharinum	Silver Maple	70mm Cal.		
BP	4	Betula papyrifera	Paper Birch	70mm Cal.	W.B.	
CO	4	Celtis occidentalis	Common Hackberry	70mm Cal.	W.B.	
PH	3	Populus deltoides	Eastern Cottonwood	70mm Cal.	W.B.	
QR	5	Quercus rubra	Red Oak	70mm Cal.	W.B.	
SB	2	Salix nigra	Black Willow	70mm Cal.	Whip	
SHRUBS	S					

SEED MIXES

- 32

AREAS TO BE SEEDED SHOWN ON LEGEND BELOW. SEED MIXES ARE TO BE APPLIED USING A TERRASEEDING PROCESS BY LANDSOURCE ORGANIX OR APPROVED SIMILAR. ALL AREAS TO BE TERRASEEDED WILL HAVE 300MM OF TOP SOIL. SCARIFY SURFACE BEFORE APPLYING TERRASEED . THE COMPOSITION OF THE SEED MIXES ARE AS FOLLOWS:

Rhus aromatica 'Gro-Low' Gro-Low Fragrant Sumac 3 gal.

Ra2

MIX SEED ONTARIO MEADOW SEED (TRCA-SW-6)

Virginia Wild Rye (Elymus virginicus) TO BE USED AS A NURSE CROP MIXED WITH SEED MIX AT 30kg/ha

1.2m spacing typ.

Pot

MINIMUM RECOMMENDED RATIO FOR SEED MIX : 21.59 KG/HA

Ontario Wet Meadow (TRCA-SW-6)

For areas wet in spring, may be dry in summer			
L-Rank	Scientific Name	Common Name	%
L4	Asclepias incarnata	Swamp milkweed	2.0%
L5	Symphyotrichum ericoides	Heath aster	2.0%
L5	Symphyotrichum novae-angliae	New England aster	1.0%
L3	Symphyotrichum pilosum	Hairy aster	2.0%
L5	Symphyotrichum puniceum	Swamp aster	2.0%
L4	Doellingeria umbellata	Flat-topped aster	1.0%
L3	Bromus ciliatus	Fringed Brome	2.0%
L5	Carex bebbii	Bebb's sedge*	1.0%
L5	Carex stipata	Awl-fruited sedge	1.0%
L5	Carex vulpinoidea	Fox sedge	5.0%
L4	Elymus riparius	Riverbank rye	10.0%
L5	Elymus virginicus	Virginia Wlid Rye	10.0%
L5	Eupatorium maculatum	Joe-pye weed	3.0%
L5	Eupatorium perfoliatum	Boneset	2.0%
L5	Glyceria striata	Fowl manna grass	3.0%
L5	Juncus articulatus	Jointed rush	2.0%
L4	Juncus balticus	Baltic rush	1.0%
L4	Juncus effusus	Soft rush	1.0%
L5	Juncus tenuis	Path rush	2.0%
L5	Juncus torreyi	Torrey's Rush*	1.0%
L2	Liatris spicata	Dense blazing star	1.0%
L1	Lobelia cardinalis	Cardinal flower	1.0%
L3	Lobelia siphilitica	Blue lobelia	1.0%
L4	Mimulus ringens	Monkey flower	1.0%
L5	Monarda fistulosa	Wild bergamont	3.0%
L5	Oenothera biennis	Evening primrose	2.0%
L3	Panicum virigatum	Switch grass	10.0%
L3	Penstemon digitalis	Foxglove beardtongue	2.0%
	Physostegia virginiana ssp.	False dragonhead or Obedient	
L3	virginiana	plant	2.0%
L4	Rudbeckia hirta	Black eyed Susan	5.0%
L4	Rudbeckia laciniata	Green coneflower*	1.0%
L5	Scirpus atrovirens	Green bulrush	3.0%
L4	Scirpus cyperinus	Woolgrass bulrush	3.0%
L5	Solidago graminifolia	Lance-leaved goldenrod*	1.0%
L2	Sorghastrum nutans	Indian grass	7.0%
L5	Verbena hastata	Blue vervain	3.0%
		Total	100.0%

* IF SUPPLY ISSUES ARISE, PLEASE REPLACE THESE SPECIES WITH REASONABLE SUBSTITUTE FROM THE SEED MIX

LEGEND

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tar pik nebar pik antar pik antar pik antar pikan pika pikan pika pikan pika pikan pikan pikan pika	LIMIT OF WORK
• TPF TPF	TREE PROTECTION FENCE
	SHORELINE FLOODING HAZARD LIMIT
	100 YEAR FLOOD LEVEL
	EXISTING TREE TO REMAIN
	PROPOSED TREE
	MIX SEED- ONTARIO MEADOW (TRCA-SW-6)
	SOD

DRY SWALE AT BUIDLING

SHRUB PLANTING

05	2025-04-11	ISSUED FOR TENDER
04	2024-11-22	ISSUED FOR TRCA PERMIT
03	2024-09-19	ISSUED FOR BUILDING PERMIT
02	2024-06-26	ISSUED FOR TRCA PERMIT
01	2023-01-31	50%-ISSUED FOR COSTING
NO.	DATE	DESCRIPTION
เรรเ	JE RECORD	

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BLUFFER'S PARK EAST WASHROOM 1 BRIMLEY ROAD SOUTH SCARBOROUGH, TORONTO, ONTARIO | M1M

DRAWING TITLE:

PLANTING PLAN

PRINT DATE: 2025-04-14 SCALE: 1:200 PROJECT NO. 21029 DRAWN BY: LD CHECKED BY: JR

Ravine & Natural Feature Protection By-law

The Ravine & Natural Feature Protection By-law, Chapter 658 of the City of Toronto Municipal Code regulates the injury and destruction of trees, dumping of refuse and changes to grade within protected areas defined in Schedule A.

Under this By-law protected trees may not be removed, injured or destroyed, and protected grades may not be altered, without written authorisation from Urban Forestry Ravine & Natural Feature Protection, on behalf of the General Manager of Parks, Forestry & Recreation. Convictions of offences respecting the regulations in the Ravine & Natural Feature Protection By-law are subject to fines, and the landowner may be ordered by the court to restore the area to the satisfaction of the City. A person convicted of an offence under this By-law is liable to a minimum fine of \$500 and a maximum fine of \$100,000 for each tree destroyed, a maximum fine of \$100,000 for any other offence committed under this chapter, and/or a Special fine of \$100,000. A person convicted of a continuing offence, including failure to comply with ravine permit conditions is liable to a maximum fine of not more than \$10,000 for each day or part of a day that the offence continues. RNFP 0608

BLUFFER'S PARK IS LOCATED ENTIRELY WITHIN TORONTO REGION CONSERVATION AUTHORITY (TRCA) AND TORONTO RAVINE & NATURAL FEATURE PROTECTION (RNFP) **REGULATED AREAS AND SUBJECT TO ALL APPLICABLE TRCA AND RNFP REGULATIONS.**

PLANT SCHEDULE

CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	<u>SIZE</u>	CONT.	REMARKS
TREES						
AR	7	Acer rubrum	Red Maple	70mm Cal.		
AO	5	Acer rubrum 'October Glory'	October Glory Red Maple	70mm Cal.	W.B.	
AS	4	Acer saccharinum	Silver Maple	70mm Cal.		
BP	4	Betula papyrifera	Paper Birch	70mm Cal.	W.B.	
CO	4	Celtis occidentalis	Common Hackberry	70mm Cal.	W.B.	
PH	3	Populus deltoides	Eastern Cottonwood	70mm Cal.	W.B.	
QR	5	Quercus rubra	Red Oak	70mm Cal.	W.B.	
SB	2	Salix nigra	Black Willow	70mm Cal.	Whip	
SHRUBS						
Rg2	32	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	3 gal.	Pot	1.2m spacing typ.

SEED MIXES

AREAS TO BE SEEDED SHOWN ON LEGEND BELOW. SEED MIXES ARE TO BE APPLIED USING A TERRASEEDING PROCESS BY LANDSOURCE ORGANIX OR APPROVED SIMILAR. ALL AREAS TO BE TERRASEEDED WILL HAVE 300MM OF TOP SOIL. SCARIFY SURFACE BEFORE APPLYING TERRASEED . THE COMPOSITION OF THE SEED MIXES ARE AS FOLLOWS:

MIX SEED ONTARIO MEADOW SEED (TRCA-SW-6)

Virginia Wild Rye (Elymus virginicus) TO BE USED AS A NURSE CROP MIXED WITH SEED MIX AT 30kg/ha

MINIMUM RECOMMENDED RATIO FOR SEED MIX : 21.59 KG/HA

L-RankScientific NameCommon Name%L4Asclepias incarnataSwamp milkweed2.0%L5Symphytorichum ericoidesHeath aster2.0%L5Symphytorichum polosumHeath aster2.0%L3Symphytorichum puiceumSwamp aster2.0%L4Doellingeria umbellataFlat-topped aster1.0%L3Bromus ciliatusFringed Brome2.0%L5Carex bebbiiBebb's sedge*1.0%L5Carex stipataAwl-fruited sedge1.0%L5Carex vulpinoideaFox sedge5.0%L4Elymus ripariusRiverbank rye10.0%L5Elymus ripariusVirginia Wlid Rye10.0%L5Elymus virginicusVirginia Wlid Rye10.0%L5Eupatorium maculatumJoe-pye weed3.0%L5Juncus articulatusJointed rush2.0%L5Juncus articulatusJointed rush2.0%L5Juncus fitsusSoft rush1.0%L4Juncus fitsusSoft rush1.0%L5Juncus fitsusSoft rush1.0%L5Juncus fitsusSoft rush1.0%L5Juncus fitsusSoft rush1.0%L5Juncus fitsusSoft rush1.0%L5Juncus fitsusCardinal flower1.0%L5Juncus fitsusEvening rimrose2.0%L5Juncus fitsusEvening rimrose2.0%L5Juncus fitsuiosaWirdi	Ontario Wet Meadow (TRCA-SW-6) For areas wet in spring, may be dry in summer			
L4 Asclepias incarnata Swamp milkweed 2.0% L5 Symphyotrichum nericoides Heath aster 2.0% L5 Symphyotrichum novae-angliae New England aster 1.0% L3 Symphyotrichum punceum Swamp aster 2.0% L4 Doellingeria umbellata Flat-topped aster 1.0% L3 Bromus ciliatus Fringed Brome 2.0% L5 Carex bebbii Bebb's sedge* 1.0% L5 Carex stipata Awl-fruited sedge 1.0% L5 Carex vulpinoidea Fox sedge 5.0% L4 Elymus riparius Riverbank rye 10.0% L5 Elymus virginicus Virginia Wild Rye 10.0% L5 Elymus virginicus Virginia Wild Rye 10.0% L5 Elymus articulatum Joe-pye weed 3.0% L5 Juncus articulatus Jointed rush 2.0% L5 Juncus articulatus Jointed rush 1.0% L4 Juncus articulatus Soft rush 1.0% L5 Juncus fusus Soft rush 1.0%	L-Rank	Scientific Name	Common Name	%
L5 Symphyotrichum ericoides Heath aster 2.0% L5 Symphyotrichum novae-angliae New England aster 1.0% L3 Symphyotrichum pulosum Hairy aster 2.0% L5 Symphyotrichum pulosum Swamp aster 2.0% L4 Doellingeria umbellata Flat-topped aster 1.0% L3 Bromus ciliatus Fringed Brome 2.0% L5 Carex bebbii Bebb's sedge* 1.0% L5 Carex stipata Awl-fruited sedge 1.0% L5 Carex stipata Awl-fruited sedge 1.0% L5 Elymus riparius Riverbank rye 10.0% L5 Elymus virginicus Virginia Wild Rye 10.0% L5 Elymus virginicus Virginia Wild Rye 10.0% L5 Eupatorium merfolatum Boneset 2.0% L5 Juncus articulatus Jointed rush 2.0% L4 Juncus stritus Jointed rush 1.0% L5 Juncus fusus Soft rush 1.0% L5 Juncus tenuis Path rush 2.0% <td>L4</td> <td>Asclepias incarnata</td> <td>Swamp milkweed</td> <td>2.0%</td>	L4	Asclepias incarnata	Swamp milkweed	2.0%
L5 Symphyotrichum novae-angliae New England aster 1.0% L3 Symphyotrichum pilosum Hairy aster 2.0% L4 Doellingeria umbellata Flat-topped aster 1.0% L3 Bromus cillatus Fringed Brome 2.0% L5 Carex bebbii Bebb's sedge* 1.0% L5 Carex stipata Awl-fruited sedge 1.0% L5 Carex vulpinoidea Fox sedge 5.0% L5 Carex vulpinoidea Fox sedge 5.0% L4 Elymus riparius Riverbank rye 10.0% L5 Eupatorium maculatum Joe-pye weed 3.0% L5 Eupatorium perfoliatum Boneset 2.0% L5 Juncus articulatus Jointed rush 2.0% L4 Juncus articulatus Jointed rush 2.0% L5 Juncus articulatus Polymetric rush 1.0% L4 Juncus torreyi Torrey's Rush* 1.0% L5 Juncus torreyi Torrey's Rush* 1.0% L4 Juncus torreyi Torrey's Rush* 1.0%	L5	Symphyotrichum ericoides	Heath aster	2.0%
L3 Symphyotrichum pilosum Hairy aster 2.0% L5 Symphyotrichum puniceum Swamp aster 2.0% L4 Doellingeria umbellata Flat-topped aster 1.0% L3 Bromus ciliatus Fringed Brome 2.0% L5 Carex bebbii Bebb's sedge* 1.0% L5 Carex stipata Awl-fruited sedge 1.0% L5 Carex vulpinoidea Fox sedge 5.0% L4 Elymus riparius Riverbank rye 10.0% L5 Eupatorium maculatum Joe-pye weed 3.0% L5 Eupatorium merfoliatum Boneset 2.0% L5 Juncus articulatus Jointed rush 2.0% L4 Juncus articulatus Soft rush 1.0% L4 Juncus ballicus Baltic rush 1.0% L5 Juncus tenuis Path rush 2.0% L5 Juncus tenuis Path rush 2.0% L5 Juncus tenuis Path rush 2.0% L5 Juncus tenuis Cardinal flower 1.0% L5 Ju	L5	Symphyotrichum novae-angliae	New England aster	1.0%
L5 Symphyotrichum puniceum Swamp aster 2.0% L4 Doellingeria umbellata Flat-topped aster 1.0% L3 Bromus ciliatus Fringed Brome 2.0% L5 Carex bebbii Bebb's sedge* 1.0% L5 Carex stipata Awl-fruited sedge 1.0% L5 Carex vulpinoidea Fox sedge 5.0% L4 Elymus riparius Niginia Wild Rye 10.0% L5 Elymus virginicus Virginia Wild Rye 10.0% L5 Elynatorium maculatum Joe-pye weed 3.0% L5 Eupatorium merfoliatum Boneset 2.0% L5 Juncus articulatus Jointed rush 2.0% L4 Juncus balticus Baltic rush 1.0% L4 Juncus torreyi Torrey's Rush* 1.0% L5 Juncus torreyi Torrey's Rush* 1.0% L5 Juncus torreyi Torrey's Rush* 1.0% L5 Juncus torreyi Torrey's Rush* 1.0% L4 Juncus torreyi Torrey's Rush* 1.0%	L3	Symphyotrichum pilosum	Hairy aster	2.0%
L4 Doellingeria umbellata Flat-topped aster 1.0% L3 Bromus ciliatus Fringed Brome 2.0% L5 Carex bebbii Bebb's sedge* 1.0% L5 Carex stipata Awl-fruited sedge 1.0% L5 Carex vulpinoidea Fox sedge 5.0% L4 Elymus virginicus Virginia Wild Rye 10.0% L5 Eupatorium maculatum Joe-pye weed 3.0% L5 Eupatorium perfoliatum Boneset 2.0% L5 Giyceria striata Fowl manna grass 3.0% L5 Juncus articulatus Jointed rush 2.0% L4 Juncus flusus Soft rush 1.0% L4 Juncus flusus Soft rush 1.0% L4 Juncus torreyi Torrey's Rush* 1.0% L5 Juncus torreyi Torrey's Rush* 1.0% L5 Juncus torreyi Torrey's Rush* 1.0% L4 Juncus torreyi Torrey's Rush* 1.0% L5 Juncus torreyi Cardinal flower 1.0% L3	L5	Symphyotrichum puniceum	Swamp aster	2.0%
L3 Bromus ciliatus Fringed Brome 2.0% L5 Carex bebbii Bebb's sedge* 1.0% L5 Carex stipata Awl-fruited sedge 1.0% L5 Carex vulpinoidea Fox sedge 5.0% L4 Elymus riparius Riverbank rye 10.0% L5 Eupatorium raculatum Joe-pye weed 3.0% L5 Eupatorium perfoliatum Boneset 2.0% L5 Glyceria striata Fowl manna grass 3.0% L5 Juncus articulatus Jointed rush 2.0% L4 Juncus seffusus Soft rush 1.0% L4 Juncus fusus Soft rush 1.0% L4 Juncus seffusus Soft rush 1.0% L5 Juncus torreyi Torrey's Rush* 1.0% L5 Juncus torreyi Torrey's Rush* 1.0% L5 Juncus torreyi Torrey's Rush* 1.0% L4 Juncus siphilitica Blue lobelia 1.0% L5 Juncus torreyi Torrey's Rush* 1.0% L5 Juncus torre	L4	Doellingeria umbellata	Flat-topped aster	1.0%
L5Carex bebbiiBebb's sedge*1.0%L5Carex stipataAwl-fruited sedge1.0%L5Carex vulpinoideaFox sedge5.0%L4Elymus ripariusRiverbank rye10.0%L5Elymus virginicusVirginia Wild Rye10.0%L5Eupatorium maculatumJoe-pye weed3.0%L5Eupatorium perfoliatumBoneset2.0%L5Glyceria striataFowl manna grass3.0%L5Juncus articulatusJointed rush2.0%L4Juncus balticusBaltic rush1.0%L4Juncus fifususSoft rush1.0%L5Juncus torreyiTorrey's Rush*1.0%L4Juncus torreyiTorrey's Rush*1.0%L5Juncus torreyiTorrey's Rush*1.0%L4Lobelia cardinalisCardinal flower1.0%L5Juncus torreyiMonkey flower1.0%L4Lobelia siphiliticaBlue lobelia1.0%L5Monarda fistulosaWild bergamont3.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia laciniataGreen coneflower*1.0%L5Scirpus atrovirensGreen coneflower*1.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Solidago graminifoliaLance-leaved goldenrod*1.0%<	L3	Bromus ciliatus	Fringed Brome	2.0%
L5Carex stipataAwl-fruited sedge1.0%L5Carex vulpinoideaFox sedge5.0%L4Elymus ripariusRiverbank rye10.0%L5Elymus virginicusVirginia Wild Rye10.0%L5Eupatorium maculatumJoe-pye weed3.0%L5Eupatorium perfoliatumBoneset2.0%L5Glyceria striataFowl manna grass3.0%L5Juncus articulatusJointed rush2.0%L4Juncus fususBaltic rush1.0%L4Juncus fususSoft rush1.0%L5Juncus terisPath rush2.0%L5Juncus terisDense blazing star1.0%L4Juncus terisCardinal flower1.0%L5Juncus torreyiTorrey's Rush*1.0%L1Lobelia cardinalisCardinal flower1.0%L3Lobelia siphiliticaBlue lobelia1.0%L4Minulus ringensMonkey flower1.0%L3Panicum virigatumSwitch grass10.0%L3Penstemon digitalisFoxglove beardtongue2.0%L3Penstemon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia laciniataGreen coneflower*1.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Scirpus atrovirensGreen coneflower*1.0%L4Scirpus atrovirensGreen coneflower*1.0% <td>L5</td> <td>Carex bebbii</td> <td>Bebb's sedge*</td> <td>1.0%</td>	L5	Carex bebbii	Bebb's sedge*	1.0%
L5Carex vulpinoideaFox sedge5.0%L4Elymus ripariusRiverbank rye10.0%L5Elymus virginicusVirginia Wild Rye10.0%L5Eupatorium maculatumJoe-pye weed3.0%L5Eupatorium perfoliatumBoneset2.0%L5Glyceria striataFowl manna grass3.0%L4Juncus articulatusJointed rush2.0%L4Juncus balticusBaltic rush1.0%L4Juncus balticusBaltic rush1.0%L5Juncus tenuisPath rush2.0%L5Juncus torreyiTorrey's Rush*1.0%L5Juncus torreyiTorrey's Rush*1.0%L2Liatris spicataDense blazing star1.0%L3Lobelia cardinalisCardinal flower1.0%L4Minulus ringensMonkey flower1.0%L3Lobelia siphiliticaBlue lobelia1.0%L4Minulus ringensMonkey flower2.0%L3Panicum virigatumSwitch grass10.0%L3Penstemon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia laciniataGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L5Solidago graminifoliaLance-leaved goldenrod*1.0%L4Scirpus drovirensGreen bulrush3.0%	L5	Carex stipata	Awl-fruited sedge	1.0%
L4Elymus ripariusRiverbank rye10.0%L5Elymus virginicusVirginia Wlid Rye10.0%L5Eupatorium maculatumJoe-pye weed3.0%L5Eupatorium perfoliatumBoneset2.0%L5Glyceria striataFowl manna grass3.0%L5Juncus articulatusJointed rush2.0%L4Juncus balticusBaltic rush1.0%L4Juncus effususSoft rush1.0%L5Juncus tenuisPath rush2.0%L5Juncus tenuisPath rush2.0%L5Juncus tenuisCardinal flower1.0%L2Liatris spicataDense blazing star1.0%L4Mimulus ringensMonkey flower1.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virgiatumSwitch grass10.0%L3Penstermon digitalisFoxglove beardtongue2.0%L3Panicum virgiataBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia laciniataGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Solidago graminifoliaLance-leaved goldenrod*1.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Solidago graminifoliaLance-leaved golde	L5	Carex vulpinoidea	Fox sedge	5.0%
L5Elymus virginicusVirginia Wlid Rye10.0%L5Eupatorium maculatumJoe-pye weed3.0%L5Eupatorium perfoliatumBoneset2.0%L5Glyceria striataFowl manna grass3.0%L5Juncus articulatusJointed rush2.0%L4Juncus balticusBaltic rush1.0%L4Juncus effususSoft rush1.0%L5Juncus tenuisPath rush2.0%L5Juncus tenuisSoft rush1.0%L5Juncus tenuisCardinal flower1.0%L5Juncus tenuisDense blazing star1.0%L1Lobelia cardinalisCardinal flower1.0%L3Lobelia siphiliticaBlue lobelia1.0%L4Mimulus ringensMonkey flower3.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virgatumSwitch grass10.0%L3Penstermon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0% <td< td=""><td>L4</td><td>Elymus riparius</td><td>Riverbank rye</td><td>10.0%</td></td<>	L4	Elymus riparius	Riverbank rye	10.0%
L5Eupatorium maculatumJoe-pye weed3.0%L5Eupatorium perfoliatumBoneset2.0%L5Glyceria striataFowl manna grass3.0%L5Juncus articulatusJointed rush2.0%L4Juncus balticusBaltic rush1.0%L4Juncus effususSoft rush1.0%L5Juncus tenuisPath rush2.0%L5Juncus tenuisSoft rush1.0%L5Juncus tenuisCardinal flower1.0%L5Juncus tenreyiTorrey's Rush*1.0%L2Liatris spicataDense blazing star1.0%L3Lobelia cardinalisCardinal flower1.0%L4Mimulus ringensMonkey flower1.0%L5Monarda fistulosaWild bergamont3.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L3Pensternon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L5Solidago graminifoliaLance-leaved goldenrod*1.0%L5Solidago graminifoliaLance-leaved goldenrod* <td< td=""><td>L5</td><td>Elymus virginicus</td><td>Virginia Wlid Rye</td><td>10.0%</td></td<>	L5	Elymus virginicus	Virginia Wlid Rye	10.0%
L5Eupatorium perfoliatumBoneset2.0%L5Glyceria striataFowl manna grass3.0%L5Juncus articulatusJointed rush2.0%L4Juncus balticusBaltic rush1.0%L4Juncus effususSoft rush1.0%L5Juncus tenuisPath rush2.0%L5Juncus tenuisPath rush2.0%L5Juncus tenuisDense blazing star1.0%L2Liatris spicataDense blazing star1.0%L3Lobelia cardinalisCardinal flower1.0%L4Mimulus ringensMonkey flower1.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L3Pensternon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia laciniataGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L5Solidago graminfoliaLance-leaved goldenrod*1.0% <td>L5</td> <td>Eupatorium maculatum</td> <td>Joe-pye weed</td> <td>3.0%</td>	L5	Eupatorium maculatum	Joe-pye weed	3.0%
L5Glyceria striataFowl manna grass3.0%L5Juncus articulatusJointed rush2.0%L4Juncus balticusBaltic rush1.0%L4Juncus effususSoft rush1.0%L5Juncus tenuisPath rush2.0%L5Juncus tenuisPath rush2.0%L5Juncus torreyiTorrey's Rush*1.0%L2Liatris spicataDense blazing star1.0%L1Lobelia cardinalisCardinal flower1.0%L3Lobelia siphiliticaBlue lobelia1.0%L4Mimulus ringensMonkey flower1.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L3Pensternon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensGreen bulrush3.0%L5Solidago graminfoliaLance-leaved goldenrod*1.0%L5Sorghastrum nutansIndian grass7.0%<	L5	Eupatorium perfoliatum	Boneset	2.0%
L5Juncus articulatusJointed rush2.0%L4Juncus balticusBaltic rush1.0%L4Juncus effususSoft rush1.0%L5Juncus tenuisPath rush2.0%L5Juncus torreyiTorrey's Rush*1.0%L2Liatris spicataDense blazing star1.0%L3Lobelia cardinalisCardinal flower1.0%L4Mimulus ringensMonkey flower1.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L3Penstermon digitalisFoxglove beardtongue2.0%L3Penstermon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus cyperinusWoolgrass bulrush3.0%L4Scirpus cyperinusWoolgrass bulrush3.0%L4Scirpus cyperinusWoolgrass bulrush3.0%L5Solidago graminifoliaLance-leaved goldenrod*1.0%L5Sorghastrum nutansIndian grass7.0%	L5	Glyceria striata	Fowl manna grass	3.0%
L4Juncus balticusBaltic rush1.0%L4Juncus effususSoft rush1.0%L5Juncus tenuisPath rush2.0%L5Juncus torreyiTorrey's Rush*1.0%L2Liatris spicataDense blazing star1.0%L1Lobelia cardinalisCardinal flower1.0%L3Lobelia siphiliticaBlue lobelia1.0%L4Mimulus ringensMonkey flower1.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L3Penstermon digitalisFoxglove beardtongue2.0%L3Penstermon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Sclipus atrovirensGreen bulrush3.0%L4Scirpus atrovirensInce-leaved goldenrod*1.0%L5Solidago graminifoliaLance-leaved goldenrod*1.0%L2Sorghastrum nutansIndian grass7.0%	L5	Juncus articulatus	Jointed rush	2.0%
L4Juncus effususSoft rush1.0%L5Juncus tenuisPath rush2.0%L5Juncus torreyiTorrey's Rush*1.0%L2Liatris spicataDense blazing star1.0%L1Lobelia cardinalisCardinal flower1.0%L3Lobelia siphiliticaBlue lobelia1.0%L4Mimulus ringensMonkey flower1.0%L5Monarda fistulosaWild bergamont3.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L3Penstermon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus atrovirensInce-leaved goldenrod*1.0%L5Solidago graminfoliaLance-leaved goldenrod*1.0%L2Sorghastrum nutansIndian grass7.0%	L4	Juncus balticus	Baltic rush	1.0%
L5Juncus tenuisPath rush2.0%L5Juncus torreyiTorrey's Rush*1.0%L2Liatris spicataDense blazing star1.0%L1Lobelia cardinalisCardinal flower1.0%L3Lobelia siphiliticaBlue lobelia1.0%L4Mimulus ringensMonkey flower1.0%L5Monarda fistulosaWild bergamont3.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L3Penstemon digitalisFoxglove beardtongue2.0%L3Penstemon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus cyperinusWoolgrass bulrush3.0%L5Solidago graminifoliaLance-leaved goldenrod*1.0%L2Sorghastrum nutansIndian grass7.0%	L4	Juncus effusus	Soft rush	1.0%
L5Juncus torreyiTorrey's Rush*1.0%L2Liatris spicataDense blazing star1.0%L1Lobelia cardinalisCardinal flower1.0%L3Lobelia siphiliticaBlue lobelia1.0%L4Mimulus ringensMonkey flower1.0%L5Monarda fistulosaWild bergamont3.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L3Penstemon digitalisFoxglove beardtongue2.0%L3Penstemon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus cyperinusWoolgrass bulrush3.0%L4Scirpus cyperinusIndian grass7.0%	L5	Juncus tenuis	Path rush	2.0%
L2Liatris spicataDense blazing star1.0%L1Lobelia cardinalisCardinal flower1.0%L3Lobelia siphiliticaBlue lobelia1.0%L4Mimulus ringensMonkey flower1.0%L5Monarda fistulosaWild bergamont3.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L3Penstemon digitalisFoxglove beardtongue2.0%L3Penstemon digitalisFoxglove beardtongue2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Scirpus atrovirensGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus cyperinusWoolgrass bulrush3.0%L5Solidago graminfoliaLance-leaved goldenrod*1.0%L2Sorghastrum nutansIndian grass7.0%	L5	Juncus torreyi	Torrey's Rush*	1.0%
L1 Lobelia cardinalis Cardinal flower 1.0% L3 Lobelia siphilitica Blue lobelia 1.0% L4 Mimulus ringens Monkey flower 1.0% L5 Monarda fistulosa Wild bergamont 3.0% L5 Oenothera biennis Evening primrose 2.0% L3 Panicum virigatum Switch grass 10.0% L3 Penstermon digitalis Foxglove beardtongue 2.0% L3 Penstermon digitalis Foxglove beardtongue 2.0% L4 Rudbeckia hirta Black eyed Susan 5.0% L4 Rudbeckia hirta Black eyed Susan 5.0% L4 Rudbeckia laciniata Green coneflower* 1.0% L5 Scirpus atrovirens Green bulrush 3.0% L4 Scirpus cyperinus Woolgrass bulrush 3.0% L5 Solidago graminifolia Lance-leaved goldenrod* 1.0% L2 Sorghastrum nutans Indian grass 7.0%	L2	Liatris spicata	Dense blazing star	1.0%
L3 Lobelia siphilitica Blue lobelia 1.0% L4 Mimulus ringens Monkey flower 1.0% L5 Monarda fistulosa Wild bergamont 3.0% L5 Oenothera biennis Evening primrose 2.0% L3 Panicum virigatum Switch grass 10.0% L3 Penstermon digitalis Foxglove beardtongue 2.0% L3 Penstermon digitalis Foxglove beardtongue 2.0% L3 Physostegia virginiana ssp. False dragonhead or Obedient plant 2.0% L4 Rudbeckia hirta Black eyed Susan 5.0% L4 Rudbeckia laciniata Green coneflower* 1.0% L5 Scirpus atrovirens Green bulrush 3.0% L4 Scirpus cyperinus Woolgrass bulrush 3.0% L5 Solidago graminifolia Lance-leaved goldenrod* 1.0% L2 Sorghastrum nutans Indian grass 7.0%	L1	Lobelia cardinalis	Cardinal flower	1.0%
L4 Mimulus ringens Monkey flower 1.0% L5 Monarda fistulosa Wild bergamont 3.0% L5 Oenothera biennis Evening primrose 2.0% L3 Panicum virigatum Switch grass 10.0% L3 Penstermon digitalis Foxglove beardtongue 2.0% L3 Physostegia virginiana ssp. False dragonhead or Obedient 2.0% L3 virginiana plant 2.0% L4 Rudbeckia hirta Black eyed Susan 5.0% L4 Rudbeckia laciniata Green coneflower* 1.0% L5 Scirpus atrovirens Green bulrush 3.0% L4 Scirpus cyperinus Woolgrass bulrush 3.0% L5 Solidago graminifolia Lance-leaved goldenrod* 1.0% L2 Sorghastrum nutans Indian grass 7.0%	L3	Lobelia siphilitica	Blue lobelia	1.0%
L5Monarda fistulosaWild bergamont3.0%L5Oenothera biennisEvening primrose2.0%L3Panicum virigatumSwitch grass10.0%L3Penstemon digitalisFoxglove beardtongue2.0%L3Physostegia virginiana ssp. virginianaFalse dragonhead or Obedient plant2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia laciniataGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Sciopus cyperinusWoolgrass bulrush3.0%L5Solidago graminifoliaLance-leaved goldenrod*1.0%L2Sorghastrum nutansIndian grass7.0%	L4	Mimulus ringens	Monkey flower	1.0%
L5 Oenothera biennis Evening primrose 2.0% L3 Panicum virigatum Switch grass 10.0% L3 Penstemon digitalis Foxglove beardtongue 2.0% L3 Physostegia virginiana ssp. False dragonhead or Obedient plant 2.0% L4 Rudbeckia hirta Black eyed Susan 5.0% L4 Rudbeckia laciniata Green coneflower* 1.0% L5 Scirpus atrovirens Green bulrush 3.0% L4 Scipus cyperinus Woolgrass bulrush 3.0% L5 Solidago graminifolia Lance-leaved goldenrod* 1.0% L2 Sorghastrum nutans Indian grass 7.0%	L5	Monarda fistulosa	Wild bergamont	3.0%
L3 Panicum virigatum Switch grass 10.0% L3 Penstemon digitalis Foxglove beardtongue 2.0% Physostegia virginiana ssp. False dragonhead or Obedient plant 2.0% L4 Rudbeckia hirta Black eyed Susan 5.0% L4 Rudbeckia laciniata Green coneflower* 1.0% L5 Scirpus atrovirens Green bulrush 3.0% L4 Scirpus cyperinus Woolgrass bulrush 3.0% L5 Solidago graminifolia Lance-leaved goldenrod* 1.0% L2 Sorghastrum nutans Indian grass 7.0%	L5	Oenothera biennis	Evening primrose	2.0%
L3 Penstemon digitalis Foxglove beardtongue 2.0% Physostegia virginiana ssp. False dragonhead or Obedient plant 2.0% L4 Rudbeckia hirta Black eyed Susan 5.0% L4 Rudbeckia laciniata Green coneflower* 1.0% L5 Scirpus atrovirens Green bulrush 3.0% L4 Sciopas cyperinus Woolgrass bulrush 3.0% L5 Solidago graminifolia Lance-leaved goldenrod* 1.0% L2 Sorghastrum nutans Indian grass 7.0%	L3	Panicum virigatum	Switch grass	10.0%
Physostegia virginiana ssp. virginianaFalse dragonhead or Obedient plant2.0%L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia laciniataGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus cyperinusWoolgrass bulrush3.0%L5Solidago graminifoliaLance-leaved goldenrod*1.0%L2Sorghastrum nutansIndian grass7.0%	L3	Penstemon digitalis	Foxglove beardtongue	2.0%
L4Rudbeckia hirtaBlack eyed Susan5.0%L4Rudbeckia laciniataGreen coneflower*1.0%L5Scirpus atrovirensGreen bulrush3.0%L4Scirpus cyperinusWoolgrass bulrush3.0%L5Solidago graminifoliaLance-leaved goldenrod*1.0%L2Sorghastrum nutansIndian grass7.0%	L3	Physostegia virginiana ssp. virginiana	False dragonhead or Obedient plant	2.0%
L4 Rudbeckia laciniata Green coneflower* 1.0% L5 Scirpus atrovirens Green bulrush 3.0% L4 Scirpus cyperinus Woolgrass bulrush 3.0% L5 Solidago graminifolia Lance-leaved goldenrod* 1.0% L2 Sorghastrum nutans Indian grass 7.0%	L4	Rudbeckia hirta	Black eyed Susan	5.0%
L5 Scirpus atrovirens Green bulrush 3.0% L4 Scirpus cyperinus Woolgrass bulrush 3.0% L5 Solidago graminifolia Lance-leaved goldenrod* 1.0% L2 Sorghastrum nutans Indian grass 7.0%	L4	Rudbeckia laciniata	Green coneflower*	1.0%
L4 Scirpus cyperinus Woolgrass bulrush 3.0% L5 Solidago graminifolia Lance-leaved goldenrod* 1.0% L2 Sorghastrum nutans Indian grass 7.0%	L5	Scirpus atrovirens	Green bulrush	3.0%
L5 Solidago graminifolia Lance-leaved goldenrod* 1.0% L2 Sorghastrum nutans Indian grass 7.0%	L4	Scirpus cyperinus	Woolgrass bulrush	3.0%
L2 Sorghastrum nutans Indian grass 7.0%	L5	Solidago graminifolia	Lance-leaved goldenrod*	1.0%
	L2	Sorghastrum nutans	Indian grass	7.0%
L5 Verbena hastata Blue vervain 3.0%	L5	Verbena hastata	Blue vervain	3.0%
Total 100.0%			Total	100.0%

* IF SUPPLY ISSUES ARISE, PLEASE REPLACE THESE SPECIES WITH REASONABLE SUBSTITUTE FROM THE SEED MIX

LEGEND

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- TP

LINITELINITELINITELINITELINITELINITELINITELIN	LIMIT OF WORK
TPF	TREE PROTECTION FENCE
	SHORELINE FLOODING HAZARD LIMIT
	100 YEAR FLOOD LEVEL
	EXISTING TREE TO REMAIN
	PROPOSED TREE
	MIX SEED- ONTARIO MEADOW (TRCA-SW-6)

DRY SWALE AT BUIDLING

SHRUB PLANTING

SOD

05	2025-04-11	ISSUED FOR TENDER
04	2024-11-22	ISSUED FOR TRCA PERMIT
03	2024-09-19	ISSUED FOR BUILDING PERMIT
02	2024-06-26	ISSUED FOR TRCA PERMIT
01	2023-01-31	50%-ISSUED FOR COSTING
NO.	DATE	DESCRIPTION
ISSU		

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL INFORM THE LANDSCAPE ARCHITECTS IMMEDIATELY OF ANY DISCREPANCY OR VARIATION FROM THE DRAWINGS, DO NOT SCALE THE DRAWINGS. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE LANDSCAPE ARCHITECT. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

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T 416 968 7908 www.dtah.com

BLUFFER'S PARK EAST WASHROOM 1 BRIMLEY ROAD SOUTH SCARBOROUGH, TORONTO, ONTARIO | M1M

DRAWING TITLE:

PLANTING PLAN

PRINT DATE: 2025-04-14 SCALE: PROJECT NO. 21029 DRAWN BY: CHECKED BY: JR

1:200 LD

L-40′

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05	2025-04-11	ISSUED FOR TENDER
04	2024-11-22	ISSUED FOR TRCA PERMIT
03	2024-09-19	ISSUED FOR BUILDING PERMIT
02	2024-06-26	ISSUED FOR TRCA PERMIT
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NO.	DATE	DESCRIPTION
ISSUE RECORD		

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DRAWING TITLE:

LANDSCAPE DETAILS

PRINT DATE: 2025-04-14 SCALE: PROJECT NO. 21029 DRAWN BY: CHECKED BY: JR

LD

SHAPED GRANITE ------STONES, SEE DETAILS AND SPECS. 2400 TIMBER JOISTS (3" x 6") @ 400 MAX. O.C., SEE COMPOSITE DECKING 24mm X 140mm X 2400m IN LENGTH STRUCTURAL REFER TO SPECS OUTDOOR SHOWER OUTDOOR SHOWER BY MDF, SEE BY MDF. SEE DETAILŚ DETAILS SHAPED GRANITE - CONCRETE CURB AND SPECS. AND TRANSVERSE BEAMS BELOW (SHOWN DASHED) A OUTDOOR SHOWER FOOTING BELOW (SHOWN DASHED) В TIMBER JOISTS BELOW (SHOWN DASHED) - CONTINUOUS METAL PAVER EDGE 120 x 120 x 6.4mm SHOWER AREA 1: DECKING PLAN SHOWER AREA 1: FRAMING PLAN EQ. EQ. EQ. EQ. EQ. 2400 - TIMBER JOISTS (3" x 6") COMPOSITE DECKING @ 400 MAX. O.C., SEE 24mm X 140mm X 2400m IN STRUCTURAL LENGTH, REFER TO SPECS. OUTDOOR SHOWER - TIMBER JOISTS BY MDF, SEE BELOW (SHOWN DETAILS DASHED) CONTINUOUS METAL PAVER EDGE <u>___</u> 120 x 120 x 6.4mm AND TRANSVERSE BEAMS BELOW (SHOWN DASHED) OUTDOOR SHOWER -0-BY MDF, SEE DETAILS OUTDOOR SHOWER FOOTING BELOW (SHOWN DASHED) SHOWER AREA 2: DECKING PLAN SHOWER AREA 2: FRAMING PLAN 2400 EQ. EQ. EQ. EQ. EQ. 2400 - TIMBER JOISTS (3" x 6") @ 400 MAX. O.C., SEE COMPOSITE DECKING 24mm X 140mm X 2400m IN LENGTH, STRUCTURAL REFER TO SPECS. <u>Q</u>. OUTDOOR SHOWER - TIMBER JOISTS BY MDF, SEE BELOW (SHOWN DETAILS DASHED) - / :-CONTINUOUS METAL PAVER EDGE 120 x 120 x 6.4mm AND TRANSVERSE BEAMS BELOW (SHOWN DASHED) OUTDOOR SHOWER · · · · • • • • BY MDF, SEE DETAILS OUTDOOR SHOWER FOOTING BELOW (SHOWN DASHED) SHOWER AREA 3: DECKING PLAN SHOWER AREA 3: FRAMING PLAN

OUTDOOR SHOWER DECKING AND FRAMING PLANS 1:50

OUTDOOR SHOWER DECKING DETAILS 0 AS SHOWN L

ISSUED FOR TRCA PERMIT **ISSUED FOR TRCA PERMIT** 50%-ISSUED FOR COSTING

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NOTES

- . STONE OUTCROPS TO BE WEATHERED GRANITE BOULDERS, REFER TO SPECIFICATIONS.
- PRIOR TO PURCHASING AND SUPPLYING STONE TO THE SITE, THE CONTRACTOR SHALL PROVIDE SAMPLES FOR THE CONSULTANT'S REVIEW AND APPROVAL, ALONG WITH THE NAME AND LOCATION OF THE PROPOSED SUPPLIER
- ALL BOULDERS ARE TO BE INSPECTED AND SELECTED BY THE CONSULTANT AT THE QUARRY PRIOR TO SUPPLY, MAKE ARRANGEMENTS FOR APPROVAL BY THE CONSULTANT AT A TIME MUTUALLY AGREED UPON.
- 4. SIZE AND DIMENSION OF ALL GRANITE BOULDERS TO BE DETERMINED WHEN SELECTING.
- 5. ALL SHARP EDGES TO BE CHAMFERED.

05	2025-04-11	ISSUED FOR TENDER
04	2024-11-22	ISSUED FOR TRCA PERMIT
03	2024-09-19	ISSUED FOR BUILDING PERMIT
02	2024-06-26	ISSUED FOR TRCA PERMIT
01	2023-01-31	50%-ISSUED FOR COSTING
NO.	DATE	DESCRIPTION
ISSUE RECORD		

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL INFORM THE LANDSCAPE ARCHITECTS IMMEDIATELY OF ANY DISCREPANCY OR VARIATION FROM THE DRAWINGS. DO NOT SCALE THE DRAWINGS. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE LANDSCAPE ARCHITECT. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

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BLUFFER'S PARK EAST WASHROOM 1 BRIMLEY ROAD SOUTH SCARBOROUGH, TORONTO, ONTARIO | M1M

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LANDSCAPE DETAILS

PRINT DATE: 2025-04-14 SCALE: PROJECT NO. 21029 DRAWN BY: LD CHECKED BY: JR

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01	2023-01-31	50%-ISSUED FOR COSTING		
NO.	DATE	DESCRIPTION		
ISSUE RECORD				

425 Adelaide St. W

PRINT DATE:	2025
SCALE:	
PROJECT NO.	2102
DRAWN BY:	LD
CHECKED BY:	JR

ISSUED FOR TENDER 05 2025-04-11 ISSUED FOR TRCA PERMIT 04 2024-11-22 **ISSUED FOR** 03 2024-09-19 **BUILDING PERMIT** 02 2024-06-26 ISSUED FOR TRCA PERMIT 01 2023-01-31 50%-ISSUED FOR COSTING NO. DATE DESCRIPTION ISSUE RECORD

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL INFORM THE LANDSCAPE ARCHITECTS IMMEDIATELY OF ANY DISCREPANCY OR VARIATION FROM THE DRAWINGS. DO NOT SCALE THE DRAWINGS. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE LANDSCAPE ARCHITECT. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

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GENERAL NOTES

- 1. ALL WORK TO CONFORM TO THE LATEST CITY OF TORONTO STANDARD DRAWINGS AND SPECIFICATIONS AS WELL AS THE LATEST ADOPTED ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
- 2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATION FOR CONSTRUCTION PROJECTS". THE GENERAL
- CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT. 3. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT ONTARIO TRAFFIC MANUAL BOOK 7: TEMPORARY
- CONDITIONS FIELD EDITION. 4. ALL TRENCHES WITHIN THE EXISTING RIGHT-OF-WAY SHALL BE BACKFILLED WITH UNSHRINKABLE FILL. TEMPORARY REPAIRS TO UTILITY CUTS WILL BE AS PER MUNICIPAL
- CONSENT REQUIREMENTS, APPENDIX D, TEMPORARY REPAIRS TO UTILITY CUTS. 5. THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO THE ORIGINAL CONDITION OR
- BETTER AND TO THE SATISFACTION OF THE EXECUTIVE DIRECTOR OF TECHNICAL SERVICES. 6. PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY THE CONTRACTOR OR DEVELOPER OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT SECTION.
- 7. CONTACT CITY INSPECTOR AND ENGINEER 48 HOURS BEFORE EXCAVATION, INSTALLATION OR BACKFILL
- 8. LOCATION AND COMPLETENESS OF EXISTING SERVICES/UTILITIES SHOWN ON THE DRAWINGS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY LOCATION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO LOCATE THE EXISTING SERVICES ON SITE.
- 9. THE DRAWINGS INDICATE EXISTING SERVICES AND DID NOT ATTEMPT TO LOCATE ANYTHING OTHER THAN THESE SERVICES (I.E. ABANDONED BUILDING FOUNDATIONS AND OTHER EXISTING FACILITIES WERE NOT INVESTIGATED OR SHOWN ON THE DRAWINGS).
- 10. THE CONTRACTOR SHALL PROVE THE EXACT LOCATION AND SIZE OF ALL SERVICES AND STRUCTURES AND SHALL BE RESPONSIBLE FOR ADEQUATELY PROTECTING THEM AGAINST DAMAGE ASSUMING ALL LIABILITIES FOR DAMAGE.
- 11. THE CONTRACTOR SHALL REPORT TO THE ENGINEER ANY CONFLICT WHICH THE EXISTING SERVICES MAY CREATE WITH THE PROPOSED WORK AND SHALL SCHEDULE CONSTRUCTION WORK AVOIDING CONSTRUCTION DELAYS CAUSED BY SUCH CONFLICTS. 12. MAINTAIN VEHICULAR AND PEDESTRIAN TRAFFIC AT ALL TIMES.
- 13. ALL SERVICES TO BE SUPPORTED AS PER CITY STD T-1007.01 TO T-1007.01-10. 14. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE
- PROCEEDING WITH ANY WORK. 15. THE CONTRACTOR SHALL BECOME SOLE OWNER OF ALL EXCESS MATERIAL 16. WITHIN THE PROPOSED PAVED AREAS AND EASEMENTS GRAN. B SHALL BE USED AS BACKFILL WITHIN 1M FROM MANHOLES, VALVE CHAMBERS AND CATCHBASINS, AND
- APPROVED NATIVE OR IMPORTED BACKFILL SHALL BE USED FOR ALL OTHER AREAS. 17. PROTECT ALL TREES FROM DAMAGE. SEE LANDSCAPE DRAWINGS FOR DETAILS. 18. REMOVE OBJECTS AS PER OPSS 510, INCLUDING APPROVED COMPACTED BACKFILL. AND
- ABANDON PIPE AS PER OPSS 510 INCLUDING SEALING OF PIPE AND FILLING IT WITH 15MPA CONCRETE OR GROUT. 19. ADJUST ALL EXISTING MANHOLE, CATCHBASIN AND VALVEBOX FRAMES TO PROPOSED
- FINISHED GRADE. 20. RELOCATE EXISTING SERVICES AS REQUIRED TO CONSTRUCT PROPOSED INFRASTRUCTURE.
- 21. CONTRACTOR TO WORK IN DRY CONDITIONS. TEMPORARY PLUGGING OF SEWER UP AND DOWN STREAM WILL BE REQUIRED. PROVISION FOR WET WEATHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 22. WHERE THE STABILITY, SAFETY OR FUNCTION OF THE EXISTING ROADWAY OR UNDERGROUND FACILITIES MAY BE IMPAIRED DUE TO THE CONTRACTOR'S METHOD OF OPERATIONS, THE CONTRACTOR SHALL PROVIDE SUCH PROTECTION AS MAY BE REQUIRED INCLUDING SHEETING, SHORING AND DRIVING PILES WHERE NECESSARY. CONSTRUCTION OF SHORING, BRACING AND PROTECTION SCHEMES SHALL CONFORM TO OPSS 538 AND OPSS 539.
- 23. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 24. REQUIRED SHOP DRAWINGS SHALL BE BASED ON FIELD MEASUREMENT AND LAYOUT
- VERIFICATION BY THE CONTRACTOR. 25. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK, SMOOTHLY BLEND LINE AND GRADE OF EXISTING WITH NEW.
- 26. EXPANSION JOINT FILLER SHALL BE PLACED WHERE PAVEMENT MEETS STRUCTURES-INCLUDING WALLS, LIGHT POLES, HYDRANTS, BUILDINGS AND BUILDING
- COLUMNS, STAIRS AND AT OTHER CONDITIONS SHOWN ON THE DRAWINGS. 27. EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES AND WITHIN THE TREE PROTECTION ZONE OF TREES DESIGNATED TO REMAIN SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATION AT NO COST TO THE UTILITY COMPANIES OR THE OWNER.

LAYOUT AND MATERIALS

- 1. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE IN METERS, EXCEPT PIPE DIAMETERS,
- WHICH ARE IN MILLIMETERS, UNLESS OTHERWISE SHOWN. 2. CONSTRUCTION LAYOUT BY CONTRACTOR.
- ALL HORIZONTAL DIMENSION ARE TO CENTER OF OBJECT OR TO GUTTER OF CURB. 4. LASER ALIGNMENT CONTROL IS MANDATORY. AS-BUILT OF PIPE INVERT ELEVATIONS WITH CORRESPONDING STATIONS SHALL BE RECORDED PRIOR TO BACK FILLING OF TRENCH.
- 5. AS-BUILT ELEVATION AND COORDINATES SHALL BE PROVIDED AT 20M INTERVALS, AND AT EVERY HORIZONTAL AND VERTICAL CHANGE OF ALIGNMENT AND UPSTREAM AND DOWNSTREAM OF EACH SANITARY OR STORM MAHHOLE, AND WATERMAIN VALVE CHAMBERS.
- 6. HORIZONTAL AND VERTICAL CONTROL BASED ON THE CITY OF TORONTO PUBLISHED BENCHMARKS AND HORIZONTAL CONTROL MARKERS.
- 7. ALL LINE AND GRADE WORK PER DRAWING AND SPECIFICATION SHALL BE LAID OUT BY A REGISTERED CIVIL ENGINEER OR SURVEYOR.

DEWATERING AND SOIL STABILIZATION

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING AND SOIL STABILIZATION.

SANITARY AND STORM SEWERS

- 1. MAIN LINE PVC PIPE AS PER DR 35 CSA B182.2-06 CERTIFIED ASTM D3034-04A, F679-03. SERVICE CONNECTION PVC PIPE TO BE AS PER DR 28 CSA B182.2-06 CERTIFIED ASTM D3034-04A.
- 2. BEDDING FOR FLEXIBLE PIPE SHALL BE AS PER OPSD 802.010, 802.013 OR 802.014.
- 3. ULTRA-RIB PIPE IS NOT PERMITTED WITHIN THE MUNICIPAL RIGHT OF WAY. 4. MAINTENANCE HOLES AS PER CITY OF TORONTO STANDARD, T-701.010 (1200MM), T-701.011 (1500MM), T-701.012-1(1800MM), T-701.013 (2400MM) OR OPSD 701.014(3000MM). FRAME AND COVER AS PER OPSD 401.010 TYPE A CLOSED (SANITARY) TYPE B OPEN (STORM).
- AND T-1003.01-2 (INTERNAL). 7. SANITARY SERVICE CONNECTIONS SHALL BE SINGLE, 150MMØ MINIMUM, PVC CLASS DR 28
- INSTALLED AT 2 PERCENT AND THE COLOUR SHALL BE GREEN, FOR SINGLE RESIDENTIAL DWELLINGS.
- AREAS AS PER OPSD 401.030. 9. REINFORCED CONCRETE PIPE SHALL BE AS PER CSA A257.2-03 (MINIMUM 65-D). HEIGHT
- OF FILL TO BE VERIFIED USING OPSD TABLES 807.010 AND 807.030. 10. NON-REINFORCED CONCRETE PIPE 150 MM TO 250 MM SHALL BE AS PER CSA A257.1-03
- CLASS 3. HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLES 807.040. 11. BEDDING FOR RIGID PIPE SHALL BE CLASS B AS PER OPSD 802.030, 802.031, 802.032 OR
- 802.033. 12. SINGLE CATCHBASINS SHALL BE AS PER CITY OF TORONTO STANDARD T-705.010 COMPLETE WITH GOSS TRAP WHERE SPECIFIED. FRAME AND COVER AS PER OPSD 400.070.
- 13. DOUBLE CATCHBASINS SHALL BE AS PER CITY OF TORONTO STANDARD T-705.020
- COMPLETE WITH GOSS TRAP WHERE SPECIFIED. FRAME AND COVER AS PER OPSD 400.070. 14. SERVICE CONNECTIONS AND UTILITY CUTS TO BE BACKFILLED WITH UNSHRINKABLE FILL.
- 15. CATCHBASIN LEADS TO BE 200MMØ PVC DR 35 FOR SINGLE CATCHBASINS AND 250MMØ
- PVC DR 35 FOR DOUBLE CATCHBASINS UNLESS OTHERWISE NOTED.
- 16. UPON COMPLETION OF INSTALLATION, SEWERS ARE TO BE CLEANED AND HAVE CCTV INSPECTION PER TS 409 AND MANDRELL TEST PER TS 410. SEWERS TO HAVE DEFLECTION NO GREATER THAN 5.0%
- 17. REAR YARD CATCHBASINS & CATCHBASINS IN PARKS SHALL BE AS PER CITY OF TORONTO STANDARD 235 T-705.010 COMPLETE WITH GOSS TRAP. FRAME AND COVER AS PER OPSD 400.070.

<u>WATERMAINS</u>

- 1. ALL SERVICE CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH T-1104.01, T-1104.02-1, T-1104.02-2, T-1105.02-1 AND T-1105.02-2.
- 2. WATERMAIN AND WATERMAIN APPURTENANCES SHALL CONFORM TO CITY OF TORONTO
- MATERIAL/MANUFACTURER SPECIFICATIONS. SEE CHAPTER 6, MATERIAL SPECIFICATIONS. 3. ALL POLYVINYL CHLORIDE (PVC) PIPES, RANGING IN SIZE FROM 100 MM THROUGH 300 MM IN DIAMETER SHALL BE PRESSURE CLASS 235, DR 18 AND MANUFACTURED IN ACCORDANCE AWWA C900-07 AND TO CSA B137.3-05 AND SHALL HAVE CAST IRON OUTSIDE DIAMETER DIMENSIONS. ALL PVC PIPE LARGER THAN 350 MM THROUGH 400 MM IN DIAMETER, SHALL BE PRESSURE CLASS 235, DR 18 AND MANUFACTURED IN ACCORDANCE TO AWWA C905-97 STANDARD AND CSA B137.3-05 AND SHALL HAVE CAST IRON OUTSIDE DIAMETER DIMENSIONS.
- 4. BEDDING FOR FLEXIBLE PIPE SHALL BE AS PER OPSD 802.010, 802.013 OR 802.014.
- 5. MINIMUM COVER ON WATERMAINS WILL BE 1.8 METRES. 6. PROVISIONS FOR FLUSHING THE WATER LINE PRIOR TO TESTING AND SO FORTH MUST BE PROVIDED WITH AT LEAST A 50 MM OUTLET ON 100 MM AND LARGER LINES AS PER T-1104.03-1. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. ON FIRE LINES, FLUSHING OUTLET TO BE 100 MM DIAMETER MINIMUM OR A HYDRANT.
- 7. ALL HYDRANTS TO BE AS PER CITY OF TORONTO STANDARD T-1105.01. IT SHALL CONFORM TO CITY OF TORONTO MATERIAL /MANUFACTURER SPECIFICATIONS. SEE CHAPTER 6, MATERIAL SPECIFICATIONS
- 8. SINGLE WATER SERVICE CONNECTIONS SHALL BE A MINIMUM OF 19 MM DIAMETER AND CONFORM TO ASTM B88-03 (ASTM B88M-05 FOR METRIC SIZES) TYPE "K" SOFT COPPER AS PER T-1104.01.
- 9. ALL CURB AND VALVE BOXES TO BE LOCATED AT STREET LINE. 10. MECHANICAL THRUST RESTRAINTS SHALL BE INSTALLED AT ALL FITTINGS, BENDS, TEES, CROSSES, REDUCERS AND VALVES FOR ALL WATERMAIN SIZES. MECHANICAL RESTRAINTS AT JOINTS SHALL BE INSTALLED WITHIN 6.1 METRES OF EITHER SIDE OF THE VALVE FOR WATERMAINS 300 MM DIAMETER OR LARGER. MECHANICAL THRUST RESTRAINTS SHALL CONFORM TO THE MATERIAL SPECIFICATIONS CONTAINED IN CITY OF TORONTO MATERIAL/MANUFACTURER SPECIFICATIONS. SEE CHAPTER 6, MATERIAL SPECIFICATIONS.
- 11. ALL TEES, PLUGS, HORIZONTAL, VERTICAL BENDS, REDUCERS AND HYDRANTS TO HAVE CONCRETE THRUST BLOCKS AS PER CITY OF TORONTO STANDARD T-1103.01, T-1103.020.
- 12. WATERMAINS MUST FOLLOW THE MINISTRY OF THE ENVIRONMENT PROCEDURES THAT GOVERN THE SEPARATION OF SEWERS AND WATERMAINS F-6-1. A MINIMUM VERTICAL CLEARANCE OF 0.30 METRE OVER, 0.5 METRE UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING. MUST ALSO MAINTAIN 2.5 METRES HORIZONTAL SEPARATION WITH SEWERS. 13. ALL VALVES LESS THAN 400 MM WILL BE IN A VALVE AND BOX AS PER CITY OF TORONTO
- STANDARD T-1101.02-2. ALL VALVES 400 MM AND LARGER WILL BE IN A CHAMBER. 14. SACRIFICIAL ANODES TO BE INSTALLED FOR ALL METAL PIPES AND APPURTENANCES, WATER SERVICES AND FITTINGS AS PER CITY OF TORONTO STANDARD T-1106.04, T-1106.05 AND
- T-1106.06 CONSTRUCTION SPECIFICATION T.S. 7.22. 15. TRACER WIRE INSTALLATION AS PER CITY OF TORONTO CONSTRUCTION SPECIFICATION T.S. 7.40.
- 16. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM THE EXISTING SYSTEM. FLUSHING, SWABBING, AND TESTING OF WATERMAIN AS PER ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS), AS WELL AS CITY OF TORONTO SPECIFICATION TS 7.30 OR LATEST AMENDMENT.
- 17. AFTER PASSING THE HYDROSTATIC PRESSURE TEST AND LEAKAGE TEST, CHLORINATION CAN PROCEED. SAMPLING OF THE NEW MAINS IS TO BE DONE AT THE REQUIRED LOCATIONS PRIOR TO CONNECTING TO THE CITY WATERMAIN SYSTEM. THE TEE FITTING IS TO BE CUT INTO THE EXISTING WATERMAIN TO MAKE THE CONNECTION. TO MAINTAIN THE PRESSURE IN THE NEW MAIN DURING INSTALLATION OF SERVICE, A 50 MM BY-PASS WITH AN APPROVED PRESSURE DIFFERENTIAL BACKFLOW PREVENTER, MOUNTED ABOVE GROUND LEVEL IS TO BE INSTALLED AROUND THE CLOSED ISOLATING VALVE.
- 18. CITY IN-SERVICE WATER VALVES CAN ONLY BE OPERATED BY TORONTO WATER STAFF. 19. WATERMAINS TO BE INSTALLED TO GRADE AS SHOWN ON APPROVED PLANS, COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHEN REQUESTED BY INSPECTOR.
- 17. INSULATE WATERMAIN WHERE COVER IS LESS THAN 1.8M.

<u>WATERMAIN – FILL AREAS</u>

- 1. PIPES ARE NOT TO BE LAID ON FILL UNTIL THE FIELD DENSITY TEST REPORTS HAVE BEEN SUBMITTED AND APPROVED BY THE ENGINEER.
- 2. FILL TO BE PLACED TO A MINIMUM OF 600 MM ABOVE THE WATERMAIN GRADES AND TO 3 METRES MINIMUM ON EACH SIDE PRIOR TO WATERMAIN LAYING COMPACTED TO A MINIMUM OF
- 100 PERCENT STANDARD PROCTOR DENSITY IN 300 MM LIFTS. 3. SOIL DENSITY TESTS SHALL BE TAKEN ALONG CENTRELINE OF THE WATERMAIN AND ON LINES 1.5 METRES ON EITHER SIDE OF SAME AT A MAXIMUM INTERVAL OF 30 METRES. TESTS TO
- BE TAKEN AT EACH 600 MM LIFT. 4. ALL HYDRANTS, TEES, VALVES, BENDS, PLUGS AND EACH PIPE JOINT ARE TO BE
- MECHANICALLY RESTRAINED. 5. PIPE JOINT DEFLECTIONS ARE NOT ALLOWED.

ADDITIONAL SEWER NOTES

- 1. MODULOC RINGS SHALL EXTEND 300MM MAXIMUM BELOW CATCHBASIN OR MANHOLE COVER FRAME AND THE REMAINING DISTANCE SHALL BE BUILT UP WITH PRECAST CONCRETE ADJUSTMENT UNITS 1200MMØ OR LARGER
- 2. MANHOLES OVER 5M DEEP SHALL HAVE SAFETY PLATFORMS ACCORDING TO OPSD-404.020 MODIFIED WITH FIBRE REINFORCED PLASTIC LANDINGS.
- 3. INSTALL FACTORY MADE WYES FOR LATERAL CONNECTIONS TO ON-SITE SEWERS. 4. AT ALL MANHOLES USE FLEXIBLE PIPE-TO-MANHOLE CONNECTORS KOR-N-SEAL ASSEMBLIES
- FOR 450MM DIAMETER PIPES OR SMALLER, EXCLUDING DROP CONNECTIONS. 5. INSULATE SEWERS AS PER CITY STD. T-708.01-4 WHERE COVER IS LESS THAN 1.2m.
- 6. CATCHBASIN CONNECTION TO MAIN SEWER AS PER OPSD-708.010
- 7. GOSS TRAPS SHALL NOT RESTRICT FLOWS 8. GRANULAR MATERIALS INCLUDING SEWER EMBEDMENT SHALL NOT CONSIST OF
- RECLAIMED/RECYCLED MATERIAL
- 9. THE USE OF HIGH PERFORMANCE BEDDING (HPB) FOR SEWER PIPE BEDDING/BACKFILL WILL NOT BE PERMITTED UNLESS REQUIRED AS A RESULT OF A SPECIFIC TRENCH CONDITIONS AND SUPPORTED WITH A RECOMMENDATION FROM A GEOTECHNICAL ENGINEER WHICH WILL INCLUDE THE POTENTIAL FOR MIGRATION OF NATIVE FINES INTO HPB VOIDS AND ITS MITIGATION
- 10. GRANULAR EMBEDMENT MATERIALS FOR SEWERS SHALL BE NATIVE GRANULAR A MATERIAL. 11. REFER TO GEOTECHNICAL REPORT PREPARED BY DAVROC TESTING LABORATORIES INC. DATED
- FEBRUARY 3, 2023 FOR ADDITIONAL BURIED SERVICING RECOMMENDATIONS.
- 12. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRE-CAST SITE SERVICING ELEMENTS (MH'S + CB'S) PRIOR TO ORDERING MATERIALS

5. BENCHING SHALL BE AS PER CITY OF TORONTO STANDARD T-701.021.

6. DROP STRUCTURES TO BE AS PER CITY OF TORONTO STANDARD T-1003.01 (EXTERNAL)

8. SANITARY MAINTENANCE HOLE SHALL HAVE WATERTIGHT FRAME AND COVER IN PONDING

EROSION AND SEDIMENT CONTROL

- 1. SEDIMENT BARRIERS, CHECK DAMS, AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 2. ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED. 3. IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
- 4. THE SITE WILL BE WET DOWN IF NECESSARY TO CONTROL DUST.
- 5. ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON-SITE.
- 6. ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH CITY OF TORONTO NOISE BYLAW.
- SEDIMENT CONTROL FENCE TO BE AS PER CITY OF TORONTO STANDARD T-219.130-1. 8. ALL CONSTRUCTION VEHICLES TO ENTER AND EXIT SITE FROM TEMPORARY CONSTRUCTION ACCESS.
- 9. ALL TOPSOIL STOCKPILES TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING.
- 10. FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE BOULEVARDS ARE SODDED OR BACKYARDS GRADED AND SODDED. FILTER FABRIC FOR SILT CONTROL TO BE TERRA FIX 270R OR APPROVED EQUIVALENT.
- 11. FILTER CLOTH WILL BE PLACED ON THE CATCHBASINS ON PUBLIC STREET ACROSS THE PROPERTY'S FRONTAGE 12. IN THE CASE OF ANY CONFLICT WITH ANOTHER PLAN, THIS PLAN PREVAILS ONLY IN RESPECT TO
- CONSTRUCTION MEASURES AND ACTIVITIES SUCH AS THE CONSTRUCTION ACCESS, SILT FENCE, SECURITY FENCING, SEDIMENT CONTROL, AND MUD MATS. 13. STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE DEVELOPER AND MUST BE KEPT UNDER CONTROL ON ALL ROADWAYS TO THE SATISFACTION OF THE CITY.
- 14. MUD MATS TO BE INSTALLED AT ALL TEMPORARY CONSTRUCTION ACCESS POINTS.
- 15. THE CONTRACTOR WILL BE RESPONSIBLE TO DETERMINE LOCATIONS OF TOPSOIL AND/OR GRANULAR STOCKPILES WITHIN THE SITE. LOCATION OF STOCKPILES MAY CHANGE TO SUIT VARIOUS STAGES OF CONSTRUCTION. 16. THE CONTRACTOR SHALL PROVIDE SEPERATE STORAGE AREAS WITHIN THE SITE FOR HAZARDOUS AND WASTE
- MATERIALS. THE STORAGE AREAS SHALL BE LOCATED AWAY FROM ANY RECEIVING WATER BODIES, INCLUDING PONDS, SEWERS, DITCHES, ETC. AND INCLUDE SPILL CONTAINMENT AREAS WITH IMPERVIOUS SURFACES. THE CONTRACTOR IS RESPONSIBLE FOR ADDRESSING AND REPORTING ANY HAZARDOUS WASTE SPILLS TO THE APPROPRIATE LOCAL AGENCY
- 17. CONTRACTOR TO ENSURE THAT PORTABLE TOILETS ARE LOCATED OFF PAVED ROADWAYS AND AWAY FROM ANY RECEIVING WATERS SUCH AS PONDS AND SEWERS.
- 18. THE SEDIMENT CONTROLS, INCLUDING SEDIMENTS, SHALL BE REMOVED OFF SITE AFTER GRASS SURFACES HAVE BEEN RESTORED TO THE SATISFACTION OF THE ENGINEER.
- 18. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL SEDIMENT AND EROSION CONTROLS, AS DESCRIBED IN THE "GTA CA'S EROSION & SEDIMENT CONTROL GUIDELINES FOR URBAN CONSTRUCTION" AND/OR OTHER CITY OF TORONTO REQUIREMENTS ON A SITE-BY-SITE BASIS SUCH AS INTERCEPTOR SWALES/DIKES, ROCK CHECK DAMS, SEDIMENT TRAPS, ETC. TO PREVENT SEDIMENTS FROM THEIR CONSTRUCTION OPERATIONS FROM ENTERING THE EXISTING AND PROPOSED STORM DRAINAGE SYSTEMS.
- 19. AFTER ROAD CONSTRUCTION AND PRIOR TO LANDSCAPE OR SODDING OF SITE, CONTRACTOR TO INSTALL SEDIMENT CONTROLS, SUCH AS SEDIMENT FENCING, ALONG DOWNSTREAM EDGES OF INDIVIDUAL BLOCKS.

NOTES FOR SITE STORMWATER MANAGEMENT SYSTEMS:

1. DESIGN / CONSTRUCTION RESPONSIBILITIES AND LIMITATIONS FOR SWM SYSTEMS WITHIN BUILDING FOOTPRINT: THE STORMWATER MANAGEMENT (SWM) SYSTEM DEPICTED ON THIS DRAWING SET ESTABLISHES THE FUNCTIONAL PARAMETERS TO MEET THE OBJECTIVES OF THE APPROVED SWM PLAN. THESE PARAMETERS INCLUDE AND ARE LIMITED TO THE SIZE AND SHAPE OF THE BURIED SWM FACILITIES AND TREATMENT UNITS AND ACCESS OPENING FRAME AND GRATE MODELS AND LOCATION(S).

THE HYDROLOGIC FUNCTION OF THE SWM SYSTEM IS BASED ON THE GROUND AND BUILDING SURFACES AND AREA MATERIALS (I.E. EXTENT OF ROOF AREA, PERMEABLE PAVING STONES, PAVING STONES AND OTHER LANDSCAPING) OUTLINED ON THE APPROVED LANDSCAPE PLANS. CHANGES TO THESE MATERIALS WILL AFFECT THE SWM SYSTEM.

THE PRESCRIBED BUILDING SURFACES (I.E. ROOF DRAIN CONVEYANCE) STRUCTURES AND BUILDING SYSTEMS, DETAILED DESIGN ARE UNDERTAKEN BY OTHERS. IN THAT REGARD, THE FOLLOWING PARTIES AND THEIR RESPECTIVE DRAWINGS AND DOCUMENTATION SHOULD BE REFERRED TO WITH RESPECT TO THE DESIGN, CONSTRUCTION AND OPERATION OF THE SWM SYSTEM.

- ARCHITECT DTAH ARCHITECTS LIMITED
- STRUCTURAL READ JONES CHRISTOFFERSON LIMITED MECHANICAL – INTROBA
- LANDSCAPE ARCHITECT DTAH ARCHITECTS LIMITED

DETAILED DESIGN AND SPECIFICATIONS FOR THE FOLLOWING ITEMS ASSOCIATED WITH THE SWM SYSTEM ARE PROVIDED BY OTHERS:

- LANDSCAPE SURFACES
- ROOF DRAINS (TO BE DESIGNED TO CAPTURE 100-YEAR DESIGN STORM)
- STORM PIPING WITHIN THE BUILDING ENVELOPE (TO BE DESIGNED TO CAPTURE 100-YEAR DESIGN STORM) CONTROL SYSTEMS
- ELECTRICAL SUPPLY, DISTRIBUTION AND CLASSIFICATION OF AREAS PROPRIETARY SWM EQUIPMENT

DURING CONSTRUCTION, THE CONTRACTOR IS TO IDENTIFY ANY DISCREPANCIES BETWEEN THE VARIOUS DESIGN INFORMATION PERTAINING TO THE SWM SYSTEM TO R.V.ANDERSON ASSOCIATES LIMITED FOR COORDINATION OF RESOLUTION.

- 2. OPERATION AND MAINTENANCE BY BUILDING OWNER
- A. THE SWM SYSTEM DEPICTED ON THE DRAWING SET REQUIRES ONGOING MAINTENANCE TO PRESERVE THE
- INTENDED FUNCTION. B. CATCHBASINS, AREA DRAINS, STRIP DRAINS, ROOF DRAINS AND OTHER INLETS REQUIRE ONGOING ROUTINE CONDITION INSPECTION AND CLEANING TO ENSURE THAT THEY REMAIN FREE OF ANY BLOCKAGE OR OBSTRUCTIONS.
- C. THE AREA DRAINS, SEDIMENT INTERCEPTORS, AND AREA DRAIN SEDIMENT BUCKETS WILL ACCUMULATE SEDIMENT AND DEBRIS AND ONGOING ROUTINE INSPECTION AND CLEANING MUST BE PERFORMED BY A QUALIFIED/LICENSED SERVICE PROVIDER.
- D. OTHER MAINTENANCE REQUIREMENTS PRESCRIBED BY THE ARCHITECT, MECHANICAL ENGINEER AND SPECIALITY CONSULTANTS OR EQUIVALENT SUPPLIERS DESIGNING THE CONTROLS FOR THE DIVERSION VALVE MUST BE ADHERED TO.
- E. THE BUILDING OWNER IS CAUTIONED THAT CHANGES TO THE BUILDING AND SITE SURFACE MATERIALS MAY ALTER THE PERFORMANCE OF THE SWM SYSTEMS AND SHOULD BE REVIEWED BY A QUALIFIED PROFESSIONAL ENGINEER.

PERMAVOID NOTES

- 1. SHOP DRAWINGS SHALL BE SUBMITTED PRIOR TO ORDERING MATERIALS 2. CONTRACTOR MUST COMPLETE SITE PERMAVOID INSTALLATION TRAINING WITH PERMAVOID REPRESENTATIVES PRIOR TO INSTALLATION
- 3. GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE SUBGRADE PRIOR TO PLACEMENT OF GRANULAR BASE AND PERMAVOID UNITS

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<u>C-C SECTION VIEW - PROPOSED SWM FACILITY #3</u> SCALE 1:25

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TRCA STANDARD NOTES:

- SECTION 1: SITE MANAGEMENT
- 1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING THE CONSTRUCTION PHASES. ALL DAMAGED ESC MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
- 2. DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
- 3. ALL IN-WATER AND NEAR WATER WORKS WILL BE CONDUCTED IN THE DRY WITH APPROPRIATE ESCS IN GOOD WORKING ORDER.
- 4. THE ESC STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE, ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE IMPACTS. A TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED, AS NECESSARY.
- 5. AN ENVIRONMENTAL MONITOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS IMMEDIATELY AFTER INSTALLATION. INSPECTION OF ESC MEASURES WILL OCCUR, AT MINIMUM:
 ON A WEEKLY BASIS;
 PRIOR TO SIGNIFICANT RAINFALL EVENTS (MINIMUM PREDICTED 25mm OVER 24 HOURS);
 AFTER EVERY RAINFALL/SNOWMELT EVENT; AND
 DAILY DURING EXTENDED RAINFALL PERIODS.
 INSPECTIONS WILL FOCUS ON MEASURES RELATED TO ESCS, DEWATERING OR UNWATERING, OR RESTORATION IN- OR NEAR- WATER WORKS AND PROVIDE ADVICE TO ENSURE THAT ACTIVITIES
- AS PER THE APPROVED TRCA PERMIT AND EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENT MONITOR WILL CONTACT THE TRCA ENFORCEMENT OFFICER (FOR APPROVED PERMITS) AND PROJECT MANAGER (FOR ISSUED VOLUNTARY PROJECT REVIEW) AS WELL AS THE PROPONENT, IF ISSUES ARISE. 6. ALL GRADES WITHIN THE REGULATED AREA WILL BE MAINTAINED OR MATCHED.
- 7. THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGULATORY FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW (E.G., FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC).
- 8. ALL DEWATERING/UNWATERING SHALL BE FILTERED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE OR OTHER REGULATED FEATURE OR HAZARD, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVES OF THE ESC MEASURES.
- ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.
 NO STAGING OR STORAGE WILL OCCUR WITHIN TRCA'S REGULATED AREA, UNLESS SHOWN ON THE
- APPROVED DRAWINGS. SECTION 2: ENVIRONMENTAL COMPLIANCE
- PLEASE NOTIFY THE FOLLOWING CONTACTS 48 HOURS PRIOR TO COMMENCING CONSTRUCTION: TRCA ENFORCEMENT (T: 437-880-2124; E: INSPECTIONS@TRCA.CA) FOR APPROVED PERMITS AND THE TRCA PROJECT MANAGER FOR ISSUED VOLUNTARY PROJECT REVIEWS. PLEASE ENSURE YOU QUOTE THE TRCA FILE NUMBER OR TRCA PERMIT NUMBER IN YOUR NOTIFICATION.
- EROSION AND SEDIMENT CONTROL PLAN
- PRIOR TO ANY BUILDING DEMOLITION AND/OR EXCAVATION, HOARDING FENCE IS TO BE INSTALLED AROUND PERIMETER IN ACCORDANCE WITH THE CONSTRUCTION MANAGEMENT PLAN.
- WHEEL WASHING STATIONS CAN BE EMPLOYED IF NECESSARY TO MITIGATE MUD TRACKING ON ROADWAY.
- SEDIMENT CONTROL FENCE TO BE INSTALLED AT LOCATIONS SHOWN ON THIS DRAWING. REPAIR RIPS OR TEAR, BROKEN STAKES AND BLOWOUTS. SILT TO BE REMOVED WHEN IT REACHES 30% OF THE HEIGHT OF THE FENCE OR COMPROMISES THE FENCE FUNCTION.
- WATERING SHOULD BE PERFORMED AS REQUIRED TO MINIMIZE DISPERSION OF DUST FROM THE SITE INCLUDING FREQUENT APPLICATION TO ANY STOCKPILES ON SITE TO PREVENT LOSS OF SOIL BY WIND EROSION.
- STREET SWEEPERS WITHIN ADJACENT PARKING LOT AND BLUFFERS PARK ROAD ARE TO BE EMPLOYED REGULARLY AS SEDIMENT ACCUMULATES.
- CATCHBASIN SEDIMENT FILTERS TO BE TERRAFIX SILTSACK OR EQUIVALENT (AS/IF DIRECTED), AND TO BE MAINTAINED UNTIL FINISHED GROUND COVER IS ESTABLISHED, INCLUDING REGULAR INSPECTION AND EMPTYING/REPLACING AS REQUIRED. NOTE REBAR CAN BE REMOVED AFTER CLOSED GRATE HAS BEEN SECURED, AND REINSERTED FOR MAINTENANCE AND REMOVAL OF THE FILTER.

REGULAR INSPECTIONS AND EROSION AND SEDIMENT CONTROL MAINTENANCE ACTIVITIES ARE TO BE RECORDED IN A LOG BOOK ALONG WITH DATE STAMPED PHOTOGRAPHS.

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- INSPECTION OF THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES WILL OCCUR: • ON A WEEKLY BASIS • AFTER EVERY SIGNIFICANT RAINFALL EVENT • AFTER SIGNIFICANT SNOW MELT EVENTS
- DAILY DURING EXTENDED RAIN OR SNOW MELT PERIODS
 SEDIMENT CONTROLS ARE TO BE REMOVED OFF S
- SEDIMENT CONTROLS ARE TO BE REMOVED OFF SITE AFTER ALL FINISHED SURFACES HAVE BEEN ESTABLISHED TO THE SATISFACTION OF THE CITY AND ENGINEER.
- THE EROSION AND SEDIMENT CONTROL (ESC) MEASURES OUTLINED ON THIS DRAWING ARE NOT STATIC AND MAY NEED TO BE UPGRADED/ AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASE INTO THE NATURAL ENVIRONMENT. THE ENGINEER SHALL BE CONTACTED IMMEDIATELY SHOULD THE EROSION AND SEDIMENT CONTROL PLANS CHANGE FROM THE APPROVED PLANS. FAILED ESC MEASURES WILL BE REPAIRED IMMEDIATELY.
- AN AFTER HOURS CONTACT NUMBER IS TO BE VISIBLY POSTED ON SITE FOR EMERGENCIES. ANY SEDIMENT SPILL FROM THE SITE SHOULD BE REPORTED ONLINE OR BY TELEPHONE TO THE MINISTRY OF ENVIRONMENT, CONSERVATION AND PARKS SPILL ACTION CENTER





GEOPIER ELEMENT DESIGN NOTES

- 1. Geopier foundation support is designed and installed by GeoSolv Design Build Inc. (GeoSolv) and checked by the Geopier Foundation
- Company, Inc., Davidson, N.C. (Design Reviewer). 2. Geopier system design loads are as per the desired bearing capacities for footings and slab load provided by Read Jones Christoffersen Ltd. via email on October 19, 2023 and October 20, 2023, and the bearing capacities provided in the marked up outdoor plans sent to GeoSolv via email on February 25, 2024. In the event the structural loads vary, GeoSolv shall be notified immediately.
- 3. The Geopier support has been designed to provide support for the loads referenced above with a geotechnical bearing capacity of up to 150 kPa at SLS and 250 kPa at ULS, As noted on the design drawings. Design settlement control is 25 mm of total and 19 mm differential for footings supported on Geopier elements.
- 4. If more than 150 mm of engineered fill exist between the top of the Geopier elements and the bottom of footing the geotechnical bearing capacity may be governed by the geotechnical bearing capacity of the engineered fill.
- 5. These drawings are based on the following drawings:
- 5.1. Ground Floor / Foundation Plan (EAST BLDG) by Read Jones Christoffersen Ltd. received via email on December 20, 2023 5.2. Ground Floor / Foundation Plan (West BLDG) by Read Jones Christoffersen Ltd. received via email on December 20, 2023
- 5.3. Marked up Outdoor Drawings received via email on February 25, 2024 5.4. Marked up GeoSolv Design Drawings received via email on February 25, 2024
- 5.5. Bluffers park landscape plan dated April 11, 2023
- 5.6. Structural drawings by RJC, draft issued for tender, dated April 11, 2025
- 6. This Geopier Design Drawings are intended to provide the general area of ground improvement by Geopier installation, building and footing orientations shown on these plans are for information only. Please refer to structural and architectural drawings for specific information on footings, building orientation, and any other information other than Geopier information. GeoSolv accepts no responsibility for location of footings as shown on these plans. GeoSolv shall be notified immediately if information on these plans conflicts with structural or architectural drawings.
- 7. The Geopier system design is based on the geotechnical information provided in the following geotechnical report Davroc Testing Laboratories Inc.'s report "Geotechnical Investigation Proposed Bluffer's Park Pavilion - 1 Brimley Road South, Toronto, Ontario" dated April 13, 2023. GeoSolv Design Build Inc. and Geopier Foundation Company, Inc., have relied on this information and we have no reason to suspect any of the information in the report is in error. GeoSolv Design Build Inc. and Geopier Foundation Company Inc. are not responsible for errors or omissions in the geotechnical report that may affect the parameter values in our design. If the subsurface or site conditions differ from those utilized in the design, GeoSolv shall be notified immediately.
- 8. This design drawing represents concept ground improvement design. Any changes to structural, mechanical, or architectural features that affect Geopier design should be communicated to GeoSolv prior to the design completion. 9. GeoSolv accepts no responsibility for structures, foundations, slabs, utilities, or fill that are not supported by Geopier elements.
- 10. GeoSolv is not responsible for the settlement of adjacent structures.

GEOPIER ELEMENT CONSTRUCTION NOTES

- 1. The Owner or General Contractor must provide a working platform capable of supporting a 70 tonne high mast machine. GeoSolv will confirm the adequacy of the surface prior to mobilizing.
- 2. It is assumed that the working platform elevation will be at or around existing grade of approximately 75.0 masl unless otherwise agreed upon by GeoSolv, in writing.
- 3. The Owner or General Contractor is responsible for the removal of any organics/peat that are deemed necessary for removal by GeoSolv prior to construction of the working platform.
- 4. A minimum of four (4) horizontal control points located at the building corners and one (1) elevation benchmark shall be established by the Owner or General Contractor prior to GeoSolv mobilizing. A sketch or CAD file showing this layout is required.
- 5. Geopier element layout is the responsibility of GeoSolv. The as-built location of Geopier elements shall be within 150 mm of location shown on these plans.
- 6. A qualified, full-time, Quality Control (QC) representative provided by GeoSolv shall be responsible for installation of the Geopier elements in accordance with the design and specifications.
- 7. Any QA Inspections required by the Owner or the General Contractor are to be arranged by the Owner or General Contractor. 8. Removal of all above and below ground obstructions encountered, that cannot be removed with conventional Geopier equipment, shall remain the responsibility of the General Contractor or Owner. The resulting excavation shall then be backfilled and compacted in accordance with the project specifications. The area shall be tested by the Owner's Geotechnical Engineer and the compaction test results shall be submitted to GeoSolv.
- 9. Management and removal of spoils generated by the Geopier system remain the responsibility of the General Contractor/Owner and should be performed to allow for an uninterrupted workflow.
- 10. Geopier elements not meeting the requirements defined in the design shall be re-driven and tamped to meet project requirements unless otherwise approved in writing by GeoSolv. 11. All Geopier elements must have a minimum diameter of 450 mm as measured from the bottom of footing unless otherwise noted on
- these plans or otherwise agreed upon by GeoSolv. 12. Footing bottoms constructed on Geopier elements shall be prepared in strict accordance with the following and verified through
- inspections by the Owner's Geotechnical Engineer. The Owner/General Contractor shall ensure that these requirements are met by all sub-trades prior to placement of footings. The Owner's Geotechnical Engineer is to verify in writing that the requirements have been met: a. Over-excavation below the bottom of the footing shall be limited to 75 mm. Smooth buckets are recommended for the excavation
- of footings. b. If organics are present in the footing excavation, over-excavation must be completed under the supervision of the Owner's
- Geotechnical Engineer and GeoSolv must be contacted immediately. c. The time between excavation and pouring the footings should be limited to not impact the integrity of the base. If immediate concrete placement is not possible, a "mud-mat" consisting of a 75mm minimum thickness of lean concrete may be placed at the
- direction of the Owner's Geotechnical Engineer, particularly if poor weather is anticipated. d. Prior to pouring footings or a mud-mat, the top of the Geopier elements and founding soils shall be compacted over the entire footing bottom if any loose surface soils or Geopier aggregate is evident. Compaction shall be performed, as shown in Detail 1 with a standard hand-operated jumping jack or equal. Vibrating plate type compactors shall not be used for Geopier element tops installed in predominately fine-grained soils.
- e. The Owner's Geotechnical Engineer shall inspect each compacted footing bottom and approve it in writing on the same day the concrete is poured in that footing excavation. The approval shall state that the footing bottom has been inspected and where necessary the loose founding soil compacted with a tamper. The approval shall further state that the exposed Geopier aggregate has been reasonably compacted with a jumping jack (or equal). Copies of the footing inspection reports shall be provided to GeoSolv. The reports should be itemized by footing location (by Gridline references). f. In the event that footing-bottom preparations, as described above, are not performed or documented in accordance with this
- section, any written or implied warranty with respect to Geopier performance can be considered void.
- 13. Heavy proof rolling has to be completed as per Detail 2 prior to grade raise engineered fill or slab subgrade. 14. GeoSolv shall be notified of any conflicts with Geopier locations shown on the plans. New utility excavations shall be limited to the zone depicted in Detail 3 on this sheet. If excavations are planned within the Geopier "No Dig" zone, GeoSolv sould be notified immediately to
- discuss excavation options. 15. Excavations to be completed near Geopier elements must be completed with care ensuring that the requirements of Detail 3 are met. GeoSolv must also be notified in advance when any major excavations are to occur and should be given the opportunity to be present
- during these excavations. 16. Stepped footings shall follow Detail 4 of this sheet at locations where steps had to be made within runs less than 1750 mm, the Geopier elements need to be cut flat as shown on Detail 4 and backfilled with engineered fill for bearing capacity less than or equal to 150 kPa and U-Fill for bearing capacity greater than 150 kPa.
- 17. Minor service excavations completed near or at the location of slab and/or raft Geopier element(s) shall follow Detail 5.
- 18. Saw cut shall be performed as per Detail 6 of this sheet to align with slab Geopier Layout, where possible.
- 19. After completion of Geopier elements, the Owner/GC is responsible for protection of the work. This includes, but is not limited to, proper site drainage to prevent ponding of water above the Geopier elements as well as the control and coordination of earthwork and any subsequent drill activities to prevent damage to installed Geopier elements. This also includes protection of the elements from frost penetration.
- 20. Any above or underground utilities conflicting with the Geopier operations/installation must be removed by others before mobilization. GeoSolv will not take any responsibility for any damages incurred.

FILL PLACEMENT NOTES

- 1. No new fill is to be place prior to Geopier element installation unless otherwise approved in writing by GeoSolv.
- 2. GeoSolv requires that all new fill be placed and compacted as Engineered Fill under the supervision of the Owner's Geotechnical Engineer. 3. The results of the compaction testing shall be provided to GeoSolv prior to issuing closeout documents.
- 4. Any settlement monitoring required on new fill shall remain the responsibility of the Owner or General Contractor.
- 5. GeoSolv takes no responsibility for excavation or grading of new or existing fill material.

HELICAL PILE NOTES

- 1. The helical piles are designed to resist up to the following loads:
- 1.1. Pz: DL=10kN & M DL = 1kN*m (any direction)
- 1.2. Px Wind = 1.2kN & My = 6.25 kN*m1.3. Py Wind = 0.25 kN & Mx=1.25kN*m
- Note the helical piles are designed to resist the following wind load combinations
- 1.1. Wx (+) and Wy (+)
- 1.2. Wx (+) and Wy (-)
- 1.3. $W_{x}(-)$ and $W_{y}(+)$
- 1.4. Wx (-) and Wy (-)
- 2. Individual helical piles will be installed to penetrate the fill and will be embedded into competent soil to achieve the design torque. 3. The lead sections shall utilize a triple helix configuration comprised of a 200mm(8"), 250mm (10") and 300mm(12") diameter helices mounted on a 127mm (5") round pipe shaft, up to 2134mm (84") long, as shown in Detail 7
- 4. The extension sections will consist of 127mm (5") round pipe shaft (RSP) up to 3048mm (120") long extensions to achieve the design depth. 5. All helical pier materials will be hot dip galvanized per ASTM A123.
- 6. The helix material is hot rolled low carbon steel plate as per ASTM A1018 with a minimum yield strength of 345mpa (50 ksi); 9.5mm (3/8") thick.
- 7. The shaft material is round pipe shaft bars with a minimum yield strength of 483mpa (70 ksi)
- 8. The ultimate structural capacity in compression for 127mm (5") RPS is 533 kN.
- 9. GeoSolv will proved the plates to connect the helical piles to the concrete piers as shown in Detail 8; however, the plates them selves must be connected to the pile by others during construction. It is the project structural engineers responsibility to design the connection between the plate and the concrete pier.
- 10. The amount of twist at the Ultimate torque capacity should not be more than one times per foot, unless approved by the designer.







FOOTING FILL TO BE SUPPORTED

LIMITS OF DISTURBANCE: ADJACENT EXCAVATIONS MUST BE OUTSIDE THIS ZONE. GEOPIER DESIGNER TO BE NOTIFIED IMMEDIATELY IF ANY EXCAVATION IS PLANNED OR OCCURS WITHIN THIS ZONE

MIN 450 mm DIA. GEOPIER ELEMENT U.N.O.

GEOSOLV DESIGN + BUILD 120 VINYL COURT WOODBRIDGE, ON L4L 4A3 PH: 905 226-2599 FX: 905 226-2601 E: INFO@GEOSOLV.CA

GEOPIER

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REFERENCE DRAWINGS

S200B		GROUND FLOOR / FOUNDATION PLAN (WEST BLDG) DATED FEBRUARY 1, 2023
S200A		GROUND FLOOR / FOUNDATION PLAN (EAST BLDG) DATED FEBRUARY 1, 2023
		STRUCTURAL DRAWING BY RJC – DRAFT ISSUED FOR TENDER, DATED APRIL 11, 2025
		BLUFFERS PARK LANDSCAPE PLAN DATED APRIL 11, 2023
		MARKED UP OUTDOOR DRAWINGS, SENT VIA TO GEOSOLV ON FEBRUARY 25, 2024
		MARKED UP GEOSOLV DESIGN DRAWINGS, SENT VIA EMAIL TO GEOSOLV ON FEBRUARY 25, 2024
DWG NO.		TITLE
Revisions		
3	2025/04/14	ISSUED FOR TENDER
2	2024/05/17	7 REVISED DESIGN DRAWINGS TO ADDRESS LIGHT POLE SUPPORT
1	2024/04/26	6 REVISED DESIGN DRAWINGS
0	2023/12/22	2 GEOPIER DESIGN DRAWING
REV	DATE	ISSUED FOR

CITY OF TORONTO

BLUFFER'S PARK

1 BRIMLEY RD S, SCARBOROUGH, ON

GEOPIER DESIGN DRAWING

NOTES & DETAILS

DESIGNED BY: A.T.G. 2025/04/14

DRAWN BY: A.T.G. 2025/04/14

CHECKED BY: K.S.H.

2025/04/14

REV.

PROJECT : 11733 DRAWING :

SHEET

100508403

SCALE: NTS

1 OF 8

GP-D-O

alex series A. T. GRIFFIN April 14, 2025

ROFESSION

VINCE OF ON

FULL SIZE ONLY





LINE OF TYP. SAW CUT. TO ALIGN WITH SLAB GEOPIER LAYOUT (WHERE POSSIBLE)







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GEOSOLV

DESIGN + BUILD

CITY OF TORONTO

BLUFFER'S PARK

1 BRIMLEY RD S, SCARBOROUGH, ON

GEOPIER DESIGN DRAWING

NOTES & DETAILS PROFESSION

REV.

DRAWING : GP-D-0.1

3

A. T. GRIFFIN

April 14, 2025

100508403

VINCE OF ON

FULL SIZE ONLY

SCALE: NTS

PROJECT : 11733

SHEET

2 OF 8

LEGEND



GROUND IMPROVEMENT AREA FOR SLAB LOADING OF 20 KPA SLS / 30 KPA ULS

GROUND IMPROVEMENT AREA FOR BEARING CAPACITIES OF 150 KPA SLS / 225 KPA ULS



1 2

3

(5)

6

8



REV. 3

SHEET 3 OF 8

<u>LEGEND</u>



GROUND IMPROVEMENT AREA FOR SLAB LOADING OF 40 KPA SLS / 55 KPA ULS

> GROUND IMPROVEMENT AREA FOR BEARING CAPACITIES OF 150 KPA SLS / 225 KPA ULS





REV. 3

SHEET 4 OF 8

$\wedge / \wedge / \wedge /$

GROUND IMPROVEMENT AREA FOR GRANITE BOULDER SLAB LOADING OF 50 KPA SLS / 70 KPA ULS



GROUND IMPROVEMENT AREA FOR BEARING CAPACITIES OF 150 KPA SLS / 225 KPA ULS

GROUND IMPROVEMENT AREA SHOWER DECKING SLAB LOADING OF 36 KPA SLS /50 KPA ULS









REV. 3

SHEET 5 OF 8

<u>LEGEND</u>

A

GROUND IMPROVEMENT AREA FOR BEARING CAPACITIES OF 150 KPA SLS / 250 KPA ULS





REV. 3 SHEET 6 OF 8

<u>LEGEND</u>

HELICAL PILE SUPPORT AREAS. LOADS AND MOMENTS SUPPORTED AS SHOWN IN THE HELICAL PILE NOTES NOTE 1

MATCH LINE







