



Existing Lawn and Garden Edge: Lawn Area and Garden Edge may need slight regrade. Coordinate w/ Consultant at time of implementation.

> **Donor Wall-Preferred Location** as selected by Athletics) PLAN L-3 'r1' for additional information

Q7-1

N N

Donor Pavement-Preferred Location (as selected by Athletics; client is pursuing "Optional Price" to relocated Drinking Ftn. mechanical aspects in "Vault 1"). SEE PLAN L-3 'r1' for additional information

New Entrance Archway/Field Naming Aspect-**Preferred Location** (as selected by Athletics) SEE PLAN L-3 'r1' for additional information

irrigation box 300X430 irr. valve

rrigation box 300X43

11.21

Nobel Park-Softball Stadium Upgrades Vancouver Campus, University of British Columbia



Reference Screenshot-Existing Site Services in Area of Study





L-2.0 "r1"

Scale as Shown



RICHARD FINDLAY



GENERAL NOTES

- I. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE VANCOUVER BUILDING BY-LAW (VBBL 2019), PART 4.
- 2. CONSTRUCT REPAIRS TO VBBL REQUIREMENTS.
- 3. DESIGN LOADS (psf): WIND 25psf.
- 4. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND DOCUMENTS. ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY FOR CLARIFICATION.
- 5. DO NOT INSTALL OPENINGS, SET INSERTS, DRILL OR ATTACH TO STRUCTURAL FRAME WITHOUT AUTHORIZATION OF ENGINEER EXCEPT AS NOTED ON DRAWINGS.
- G. ALL STRUCTURAL ITEMS MUST BE INSPECTED BY THE STRUCTURAL ENGINEER OR BY ANOTHER SUITABLE QUALIFIED PERSON.
- NOTIFY THE ENGINEER 24 HOURS IN ADVANCE FOR INSPECTION OF THE FOLLOWING:
 a.) REINFORCING STEEL: BEFORE EACH CONCRETE POUR.
 b.) STEEL FRAMING.
- 8. CHECK WORK IS COMPLETED BEFORE CALLING FOR INSPECTIONS.
- 9. BRACE THE STRUCTURE UNTIL ALL THE COMPONENTS ARE PERMANENTLY FASTENED IN PLACE. BRACING SHOWN IS FOR COMPLETED STRUCTURE ONLY.
- 10. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION .FAILURE TO DO SO SHALL RENDER THE CONTRACTOR RESPONSIBLE TO REPAIR ANY IMPROPER WORK.
- II. METRIC AND IMPERIAL UNITS USED INTERCHANGEABLY.
- I 2. ONLY STRUCTURAL COMPONENTS DETAILED ON OUR DRAWINGS HAVE BEEN DESIGNED BY US. OTHER STRUCTURAL COMPONENTS AND ANY OTHER BUILDING COMPONENTS ARE THE RESPONSIBILITY OF THEIR RESPECTIVE DESIGNERS. THIS INCLUDES, BUT IS NOT LIMITED TO, DAMP PROOFING AND WATER PROOFING SYSTEMS.
- 13. THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE PROFESSIONAL HAS ENTERED INTO A WRITTEN CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY WHOM THE PROFESSIONAL HAS NOT ENTERED INTO SUCH A CONTRACT.
- 14. DO NOT BUILD FROM THESE DRAWINGS UNLESS THEY ARE MARKED "ISSUED FOR CONSTRUCTION".
- I 5. DESIGN ALL GUARDRAILS, HANDRAILS, STAIRS, TRELLIS STRUCTURES, CANOPIES, GLASS ENCLOSURES, STEEL STUD FRAMING, AND LADDERS TO THE REQUIREMENTS OF THE B.C. BUILDING CODE. PROVIDE SEALED SHOP DRAWINGS PREPARED BY A B.C. PROFESSIONAL ENGINEER.
- I G. USE THE LATEST EDITION OF STANDARDS REFERRED TO IN THESE DOCUMENTS.
- 17. ALL FORMING, SHORING, AND SITE SAFETY ISSUES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 18. ANY CHANGES TO THE FRAMING SHOWN ON THE DRAWINGS SHALL HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER. FRAMING CHANGES THAT HAVE NOT BEEN APPROVED WILL BE REJECTED.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE CORRECTION OF DEFICIENCIES AS DETERMINED BY THE ENGINEER.

STRUCTURAL STEEL

I. GENERAL

- a.) FABRICATE AND ERECT STRUCTURAL STEEL TO CAN/CSA3-SIG.I.
- b.) WELD TO CSA W59-89 BY FABRICATORS QUALIFIED TO CSA W47.1-83, DIV. 1 OR 2.
- c.) SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO FABRICATION. THEY ARE TO SHOW ALL DETAILS AND MATERIAL SPECIFICATIONS AND MUST BE SEALED BY A B.C. PROFESSIONAL ENGINEER WHO HAS DESIGNED THE CONNECTIONS. CONNECTIONS ARE TO BE DESIGNED FOR THE FORCES SHOWN ON DRAWINGS OR CALCULATED FROM LOADS GIVEN. ALTERNATIVELY, SHEAR CONNECTIONS IN BEAMS MAY BE DESIGNED FOR A FORCE EQUIVALENT TO 120% OF THE UNIFORM LOAD WHICH WOULD YIELD THE BEAM IN FLEXURE.
- 2. PRODUCTS

a.) STRUCTURAL STEEL : TO CAN/CSA (940.21-M87
W SHAPE BEAMS AND COLUMNS	350W
HSS SECTIONS CLASS C	350W
CHANNELS AND ANGLES	300W
BARS AND PLATES	300W
b.) ANCHOR BOLTS	SAE GRADE 5

- c.) BOLTS, CADMIUM PLATED IF A325
- d.) PRIMER : TO CISC/CPMA 1-73A (ITEMS TO BE PAINTED TO CISC/CPMA 1-73A ITEMS TO BE PAINTED TO CISC/CPA 2-75 AND TO BE COMPATIBLE WITH FINISH PAINT).

3. EXECUTION

- a.) WELD OR USE BOLTED SHOP CONNECTIONS.
- b.) PAINT ALL STEEL WITH ONE COAT PRIMER EXCEPT STEEL TO BE EMBEDDED IN CONCRETE OR STEEL TO BE FIREPROOFED. SEE ARCH FOR PAINT SPECIFICATION.

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I	ISSUED FOR REVIEW			FEB. 18, 2021
REV.	DESCRIPTION			DATE
	SIEFKEN ENGINEERING LTD. CONSULTING STRUCTURAL ENGINEERS #201-668 CARNARVON ST. NEW WESTMINSTER, B.C. V3M 5Y6 TEL: (604) 525-4122 FAX: (604) 525-3557 E-MAIL.: siefken@telus.net COPRECT FESERVED The plan and design are, and at all times remain the eclosure property of the Engineer and cannot be used or reproduced without written consent. Do not scale drawing.	DESIGNED: LE DRAWN: PGZ CHECKED: JR5 JOB NO.	ARCHWA UBC NOBEL VANCOUVER SK-1	AY PARK S., B.C.

CONCRETE

I. GENERA	NL				
a.) PROV	TIDE CONCRETE AND PE	RFORM WORK TO CS	6A CANS-A23.1		
Ь.) RETA	IN A CONCRETE TESTING	G AGENCY APPROVED	D BY THE ENGIN	EER TO TEST AGGREGATES, DESIG	N MIX AND TAKE,
AND 1	TEST CONCRETE CYLIND	ERS TO CSA-A23.1	AND CSA-A23.	2. SUBMIT REPORTS TO ENGINEER	,
2. PRODU					
a.) CEME	INT : TYPE "TO PORTLAN	ID CEMENI".			
b.) REINF	ORCING STEEL : NEW D	PEFORMED BARS TO	CSA G30.18 G	RADE 400. WELDED WIRE FABRIC	10 CSA G30.5.
	LEGATE AND WATER : IC	$C_{SA} C_{AN3} - A_{23} \cdot I$		NC TO ASTNA CARA TYPE A	
	ATURES : AIR LINTRAININ	NG TU UJA A266.T. N207	WAILK KLUUCI	NG TO ASTM C494-TH L A.	
f) FORM	IV/ORK · SMOOTH SOL	AJU7. IARE EDGED PLYMOC	D PANELS		
	DESIGNI	28 DAY		EVPOSURE	
DESC	RIPTION	STRENGTH (MPa)	AGGREGATE	CLASS	
FOOT	ING + FDN WALL	25	3/11	F2	
SLAB	S/GRADE	32	3/11	C^2	
3. EXECUT	TION	0L	74	<u>C</u>	
a.) MIX A	ND PLACE CONCRETE T	O CSA CAN3 A23.1			
ь.) VERT	ICAL DROP OF CONCRE	TE NOT TO EXCEED 5	5'-0".		
c.) COM	PACT CONCRETE WITH I	NTERNAL TYPE MECH	IANICAL VIBRAT	ORS. WORK CONCRETE AROUND	ALL EMBEDDED
MATE	RIAL AND INTO CORNER	S OF FORMS.			
d.) UNLE	SS NOTED OTHERWISE	PROVIDE CLEAR CON	NCRETE COVER	OVER REBAR AS FOLLOWS :	
SURF	ACES POURED AGAINST	GROUND		3"	
FORM	IED SURFACES EXPOSE	D TO GROUND OR W	EATHER	2"	
OTHE	R FORMED SURFACES :	SLABS, WALLS			
BEAM	IS AND COLUMNS				DILACTEDG AND
e.) alini Pedeo	STALS TO HAVE THES HO	DOKED 125 DECREE	S OP AS DETAIL	FD ON DRAWINGS, COLUMINS	, TILASTERS, AND
f) FMBF	DDED MATERIAL SHALL	BE FREE FROM GREA	SE SCALE AN	D OTHER COATINGS. PLACE REBAI	R IN ACCORDANCE
W/ITH	CSA CAN3-A23 I AND	SECHRE WITH CHES	OR WIRE NOT I	FSS THAN I & GAUGE	
a) CONT	INUE WALL STEEL AROL	JND CORNERS			
h.) MININ	1) MINIMUM SPLICE LENGTH UNLESS NOTED OTHERWISE :				
BARS	BAR SIZE I OM I 5M 20M 25M 30M 35M				
LAP (I	LAP (IN) 4" 20" 28" 48" 64" 92"				
LAP W	/ELDED WIRE FABRIC 8"				
J.) MINIMUM REINFORCING AROUND OPENINGS LARGER THAN 12" : 2-15M EACH SIDE OF OPENINGS EXTENDED 2'-0"					
PAST CORNERS. 1-10Mx4'-0" LONG DIAGONAL AT EACH CORNER. 2-15M AT WALL ENDS.					
k.) CONTROL JOINTS : SLAB ON GRADE - I " DEEP PREFORMED OR SAWCUT CONCRETE PLACEMENTS AFTER CONCRETE					
HAS HARDENED SUFFICIENTLY. WALLS - $1/4$ " DEEP VEE EACH SIDE OF WALL AT 50'-0" MAXIMUM.					
m.) CONSTRUCTION JOINTS : LOCATE REYED CONSTRUCTION JOINTS AS APPROVED BY ENGINEER UNLESS DETAILED ON					
UKAWINGS.					
II.) JUIT	A ACCURACY TO FRANC	YE // IN PLAN AND FL	FVATION GLAB	EORN TOLEPANCE VII IN ELEVATIC	NN I
P.) FORM ACCURACY TOLERANCE 1/4" IN PLAN AND ELEVATION. SLAB FORM TOLERANCE 1/4" IN ELEVATION.					
9.) PROVIDE 7/4" CHAMPER TO ALL EXPOSED CORNERS. HAND TOOL EDGES OF SLAB AND CURBS.					
r.) CHAMFER SLABS AND BEAMS AS NOTED OR 1/4" FER 3'-0" MINIMUM BY SETTING FORMS AND SCREEDS. JACKING FORMS AFTER CONCRETE IS POURED IS NOT PERMITTED					
s) TIF ALL DOWELS AND ANCHOR BOLTS BEFORE POURING CONCRETE					
t.) CURE	AND PROTECT IN ACCO	ORDANCE WITH A23.	I. CURING CON	IPOUNDS NOT ACCEPTABLE WHER	E FUTURE
TOPPING OR ADHESIVES TO BE APPLIED.					
u.) OPENINGS, PIPE SLEEVES, ETC. ARE NOT PERMITTED IN STRUCTURAL CONCRETE UNLESS APPROVED BY ENGINEER.					
2					
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