STORE #312 102 Primeway Drive, BLDG. E3 Welland, Ontario

GENERAL NOTES:

1. CONTRACTOR AND ALL SUB-TRADES SHALL VERIFY ALL SITE DIMENSIONS, ALL DRAWINGS, DETAILS AND SPECIFICATIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IN WRITING FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.

2. CONTRACTOR AND SUB-CONTRACTORS, BEFORE PROCEEDING WITH WORK, MUST SUBMIT ALL NECESSARY SAMPLES FOR APPROVAL OF QUALITY AND FINISH TO THE LCBO PROJECT COORDINATOR.

3. CONTRACTOR MUST COMPLY WITH THE CONTRACT DOCUMENTS, PERFORMANCE REQUIREMENTS, APPLICABLE CODES AND REGULATIONS.

4. ALL CONSTRUCTION SHALL REFERENCE ARCHITECT'S AND ENGINEER'S DRAWINGS.

5. G.C TO CONTACT & CARRY ET GROUP TO SUPPLY & INSTALL SOUND EQUIPMENT:

ET GROUP 524 FRONT ST W. TORONTO, ON CONTACT: ANN LOUGH

TEL: 647-477-1688 EMAIL: <u>SOUNDSIDEAL@SYMPATICO.CA</u>

EQUIPMENT TO INCLUDE THE FOLLOWING: (GC TO ENSURE ALL VISIBLE SOUND EQUIP. IS BLACK)

- MOUSETRAP SPEAKERS EMT501
- TOA 712 MIXER/AMPLIFIER
- TOA BG 2035 MIXER/AMPLIFIER
- TOA CS 154 PAGING HORN
- JBL SERIES PENDANT SPEAKERS • MULTI-CONDUCTOR - 2 CONDUCTORS 2 18 AWG
- 22-2C STR BC LSPVC FOIL SHD LSPVC
- SUPPORTS AND CONNECTORS
- ET JB1 AMPLIFIER/INTERFACE
- VOLUME ATTENUATOR
- BELKIN MASTERCUBE SINGLE OUTLET SURGE PROTECTOR • CEILING SPEAKER - JBL CONTROL 24C MICRO
- CEILING SPEAKER JBL 24 CT PLUS
- SPEAKER WIRING
- PAGING TIE-INS WITH PHONE SYSTEM AS NEEDED
- INCLUDE SCISSOR LIFT AND ALL INSTALLATION • SPEAKER QUANTITIES TO SUIT STORE LAYOUT

GENERAL NOTES:

LCBO VENDOR WILL SUPPLY AND INSTALL THE FOLLOWING SIGNAGE. ELECTRICAL CONNECTIONS BY GC. COORDINATION OF VENDOR'S INSTALLATION BY GC.

- SIGN CONTRACTOR TO APPLY FOR AND PAY FOR ALL REQUIRED PERMITS.
- A. <u>INTERIOR SIGNS:</u>
- OPEN & COLD BEER SIGNS.
- CREST SIGNS
- PIN-ON LETTERS • LINTEL LETTERS
- BEER STYLE MURAL GRAPHICS
- B. <u>EXTERIOR SIGNS:</u>
- BLADE SIGNS
- ILLUMINATED BOX SIGNS • ILLUMINATED CHANNEL LETTER SIGNS
- TEMPORARY BANNERS
- OPENING PACKAGE
- FLAG SIGNS
- VINYL GRAPHICS

OWNER / TENANT

LIQUOR CONTROL BOARD OF ONTARIO 55 Lakeshore Blvd. East, 2nd Floor Toronto, Ontario M5E 1A4

Contact: Torin McMullen Tel.: 416-704-7689 e-mail: <u>torin.mcmullen@lcbo.com</u>

LANDLORD

SMART CENTRES REAL ESTATE INVESTMENT TRUST 3200 Highway 7 Vaughan, Ontario L4K 5Z5

Contact: Tel.: 905-326-6400 ext. 7766 e-mail: <u>erosa@smartcentres.com</u>

ARCHITECT

IBI GROUP ARCHITECTS

7th Floor - 55 St. Clair Avenue West Toronto, Ontario M4V 2Y7

Tel.: 416-596-1930 Ext. 61111 Fax: 416-596-0644 e-mail: <u>laurie.gennings@ibigroup.com</u>

CONSULTANTS

INTERIOR DESIGN

IIBYIV Design 67 Mowat Avenue, Suite 109 Toronto, ON Canada M6K 3E3

Tel.: 416-531-2224

STRUCTURAL

600 Cochrane Drive Markham, Ontario L3R 5K3

Tina Jin Tel.: 905-475-8727 Fax: 905-475-5994 e-mail: JinT@mmm.ca

MECHANICAL & ELECTRICAL

600 Cochrane Drive Markham, Ontario L3R 5K3

Contact(s): Mech: Rahul Dubey

> e-mail: Rahul.Dubev1@wsp.com Elec: Mahesh Paul

> Tel: 289-789-3207 e-mail: Mahesh.Paul@wsp.com

Tel.: 289-789-3019

REFRIGERATION CONSULTANT NEELANDS GROUP LTD

4131 Palladium Way, Burlington, Ontario L7M 0V9

Scott Corbett/Jennifer Gordon Tel.: 416.798.9705

905.516.8132 e-mail: scott@neelands.com/ jennifer.gordon@neelands.com www.neelands.com

BUILDING AUTOMATION SYSTEM STANDARD MECHANICAL SYSTEMS LIMITED

3055 Universal Drive Mississauga, Ontario L4X 2E2

Bill Keates / Jacqueline Randell Tel.: 416-578-5298 e-mail:bill@standardmechanical.com jacqueline@standardmechanical.com

LIGHTING CONSULTANT

ENERGY NETWORK SERVICES INC. 2-125 West Beaver Creek Road Richmond Hill, Ontario, L4B 1C6 Contact:

John Zaim Tel.: 905-763-2946 ext. 229 e-mail: LCBO@ENSINC.ca jzaim@ensinc.ca

COMMISSIONING CONSULTANT

EnergyDM 74 Romance Drive, Richimond Hill, ON, L4S 2R8 Contact:

Daryoush Marandi Tel.: 647-234-6646 e-mail: daryoush@energydm.ca

		DRA	WINGS	ISSU	JED F	OR:	
DRAWING NUMBER	ARCHITECTURAL DRAWINGS	March 24, 2020 30% DRAWING REVIEW	July 7, 2020 60% DRAWING REVIEW	July 16, 2020 90% DRAWING REVIEW	July 31, 2020 Issued for Building Permit	September 10, 2020 Issued for Tender	
A0.00 A0.01	COVER SHEET, DRAWING LIST AND OBC MATRIX SITE PLAN	②	₩	₩	₩	₩	
A1.00 A1.01 A1.02 A1.03 A1.04 A1.05 A1.06 A1.07 A1.08	PARTITION PLAN FIXTURE PLAN REFLECTED CEILING PLAN FLOOR FINISHES PLAN FIXTURE & MILLWORK ITEMIZATION PLAN FIXTURE & MILLWORK ITEMIZATION LEGEND BASE BUILDING SERVICES COORDINATION PLAN BASE BUILDING SERVICES COORDINATION DETAILS ROOF PLAN EXTERIOR ELEVATION	9 9 9 9 9 9 9					
A2.00	INTERIOR ELEVATIONS	₩	•	•	•	•	
A2.02 A2.03	INTERIOR ELEVATIONS BEER COLD ROOM: ENLARGED PLANS & INTERIOR ELEVATIONS	₩	₩	₩	♥♥	₩	
A2.04	SERVICE AREAS: ENLARGED PLANS & INTERIOR ELEVATIONS	0	•	0	0	8	
A3.00	MISCELLANEOUS DETAILS		₩	₽	₽	₽	
A4.00	SUPPLEMENTAL FINISH SCHEDULE	8	₩	₩	₩	₩	
A4.01 A4.02	SUPPLEMENTAL FINISH SCHEDULE ROOM FINISHES SCHEDULE, DOOR SCHEDULE,	₩	₩	₩	♥♥	₩	
	DOOR FRAMES AND SCREEN TYPES						
	STRUCTURAL DRAWINGS						
S0 S1	GENERAL NOTES AND ABBREVIATIONS PART GROUND FLOOR FRAMING AND SECTIONS		₩	₩	♦	₩	
S2	SERVICE PLATFORM FRAMING PLAN AND SECTIONS			_		_	
7	DART BOOK ERANING BLAN AND GEOTIONS		₩	©	Q	©	
	PART ROOF FRAMING PLAN AND SECTIONS SECTIONS AND DETAILS		9 9	9 9 9	♥♥♥	8 8	
M-1 M-2 M-3 M-4 M-5			0	0	•	8	
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NOTE: SEISMIC RESTRAINT: (THIS STORE IS LOCATED WITHIN A SEIMIC <u>ZONE):</u>

 G.C TO SUBMIT P.ENG STAMPED DRAWINGS WITH RESPECT TO SEISMIC RESTRAINTS FOR: -SUSPENDED CEILINGS AND OTHER ATTACHMENTS TO CEILINGS

WITH INDEPENDENT VERTICAL SUPPORT.

-FIXTURES.

- ALSO REFER TO SPECIFICATIONS AND STRUCTURAL, MECHANICAL, ELECTRICAL AND COLDROOM DRAWINGS FOR ADDITIONAL SEISMIC REQUIREMENTS
- LCBO EQUIPMENT VENDOR TO SUBMIT P.ENG STAMPED DRAWINGS WITH RESPECT TO SEISMIC RESTRAINTS FOR WAREHOUSE PALLET RACKING.

LANDLORD'S OBC CODE MATRIX:

NAME OF PROJECT: RENOVATION OF EXISTING RETAIL TO LCBO LOCATION: 102 PRIMEWAY DRIVE, BLDG. E3 WELLAND ONTARIO

3.00 3.01	Building Code Version: Project Type:	O. Reg. 332/12 Last Amendment O. Reg. 191/14 ☐ New Addition ☐ Renovation ☐ Change of Use ☐ Addition and renovation	[A] 1.1.2.
3.02	Major Occupancy	Description:	3.1.2.1. (1)
5.02	Classification:	GROUP E RETAIL	5.1.2.1. (1)
3.03	Superimposed Major Classification:	⊠ No □Yes Description:	3.2.2.7.
3.04	Building Area (m) ²	Description: Existing New Total 1,796 743 2,540	[A] 1.4.1.2.
3.05	Gross Area (m)²	Description: Existing New Total 1,796 743 2,540	[A] 1.4.1.2.
3.06	Mezzanine Area (m)	Description: Existing New Total N/A N/A N/A	3.2.1.1.
3.07	Building Height		[A] 1.4.1.2.& 3.2.1.1.
3.08	High Bulding	⊠ No □Yes	3.2.6.
3.09	Number of streets/ Firefighter access	_2 Street(s)	3.2.2.10. & 3.2.5.
3.10	Building Classification: (Size and Construction Relative to Occupancy)	3.2.2.62 GROUP E, UP TO 2 STOREYS Group/Div	3.2.2.62
3.11	Sprinkler System		3.2.1.5. & 3.2.2.17.
3.12	Standpipe System	□ in lieu of roof rating □ none	3.2.9.
	Fire Alarm System	⊠Not Required □ Required □ Required Proposed: □ Single stage □ Two stage □ None	3.2.4.
3.14	Water Service/ Supply is Adequate	Proposed: □ Single stage □ Two stage □ None □ No ☑ Yes	
3.15	Construction Type:	Restriction: □ Combustible permitted □ Non-combustible required □ Combustible □ Non-combustible □ Combination □ Combustruction: □ No □ Yes	3.2.2.20 83.
3.16	Importance Category:	□Low □Low human occupancy □Post—disaster shelter □Normal □High □Minor storage building □Explosive or hazardous substances	4.1.2.1.(3) & T4.1.2.1.B
3.17	Seismic Hazard Index:	(IE Fa Sa (0.2)) = Seismic design required for Table 4.1.1.18. items 6 to 21: ((IE Fa Sa (0.2)) ? 0.35 or Post—disaster) □ No □ Yes	4.1.2.1.(3) 4.1.8.18.(2)
3.18	Occupant Load	Floor Level/Area Occupancy Type Based On Occupant Load	3.1.17.
	UNIT E1 UNIT E2 UNIT E3		
3.19	Barrier-free Design:		3.8.
	Hazardous Substances:	□Yes Explanation No	3.3.1.2. & 3.3.1.19.
3.21	Required Fire Resistance Ratings	Horizontal Assembly Rating Supporting Assembly (H) Floors over basement N/A	3.2.2.20 83. & 3.2.1.4.
	Spatial Separation EXISTING	Area (m) or H/L Max. % of openings FRR (H) Design of Description Tyle	Construction ype Required Noncombustible
3.23	Plumbing Fixture Requirements UNIT E1 UNIT E2 UNIT E3	Ratio: Male: Female = 50: 50 Except as noted otherwise Floor Level/Area Occupant Load OBC Reference Required Fixtures Provided 935.8 SM ETR	3.7.4.
3.24	Energy Efficiency:	Compliance Path: Climatic Zone:	
3.25	Notes:		
		B of the OBC unless preceded by [A] for Division A and [C] for Division C. SHROOM FACILITIES AND BARRIER-FREE REQUIREMENTS TO BE SUBMITTED FOR PERMIT UNDER	SEPARATE APPLICATION.

ADDITIONAL CODE REQUIREMENTS/CALCULATIONS (FOR LCBO FIT-UP ONLY)

Name of Project: LCBO Store #312

Location: 102 Primeway Drive, BLDG. E3

Welland, Ontario

SUITE SPACE:(LCBO)	Areas (SQ.M.)	(SQ.FT.)	Occupant Load (SQFT. Per Person) Table 3.1.17.1
MERCANTILE: 476.0m²/3.7m² per person (Inclues: Sales Area + Vestibule + Coldroom)	476.0	5123.2	129 Persons
WAREHOUSE/BACK-OF-HOUSE: 209.8m²/28m² per person	209.8	2257.9	8 Persons
STAFF SERVICES: 57.2m²/46m² per person (Includes:Janitor + Staff Rm + W/Rms + Office)	57.2	615.2	1 Persons
Cumulative Area:	743.0	7996.3	138

IBI

ibigroup.com

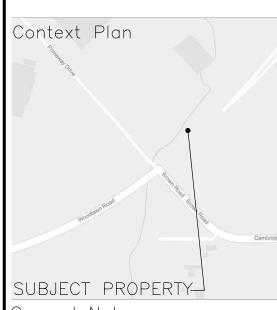
IBI GROUP 7th Floor - 55 St. Clair Avenue West Toronto ON M4V 2Y7 Canada tel 416 596 1930 fax 416 596 0644

STORE #312 102 Primeway Drive BLDG. E3 WELLAND, ON

II BY IV Design Associates 77 Mowat Avenue, Suite 109 Toronto, Ontario M6K 3E3 t.416 531 2224

w. www.iibyiv.com





General Notes: . ALL DIMENSIONS IN IMPERIAL. 2. VERIFY ALL DIMENSIONS. 3. DO NOT SCALE DRAWINGS. 4. CHECK DRAWINGS AGAINST SPECIFICATIONS 5. USE THE LATEST REVISED DRAWINGS ONLY 6. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SCHEDULES, DISCOVERED ERRORS, OR

OMISSIONS, TO THE ARCHITECT AND LCBO

DURING TENDER PERIOD AND BEFORE

7. DRAWINGS AND SPECIFICATIONS ARE THE

PROPERTY OF THE ARCHITECT, AND MUST

BE RETURNED UPON COMPLETION OF 8. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT, PLEASE GO

TO:BIDDINGO.COM/LCBO

PROCEEDING WITH ANY WORK.

5 2020-09-10 Issued for Tender 4 2020-07-31 Issued for Building Permit LG

3 2020-07-16 Issued for 90% Design Review LG 3 2020-07-07 Issued for 60% Design Review LG 2 2020-06-19 Issued for BB Coordination LG

1 2020-06-18 Issued for 30% Design Review LG

Tender Issued for: September 10, 2020

Project No.: Scale: Drawn by: Checked by: LCBO Store No. 312 Interior Fit-Up

Welland, Ontario

124852 N.T.S LG VG

Cover Sheet, Drawing List and OBC Matrix

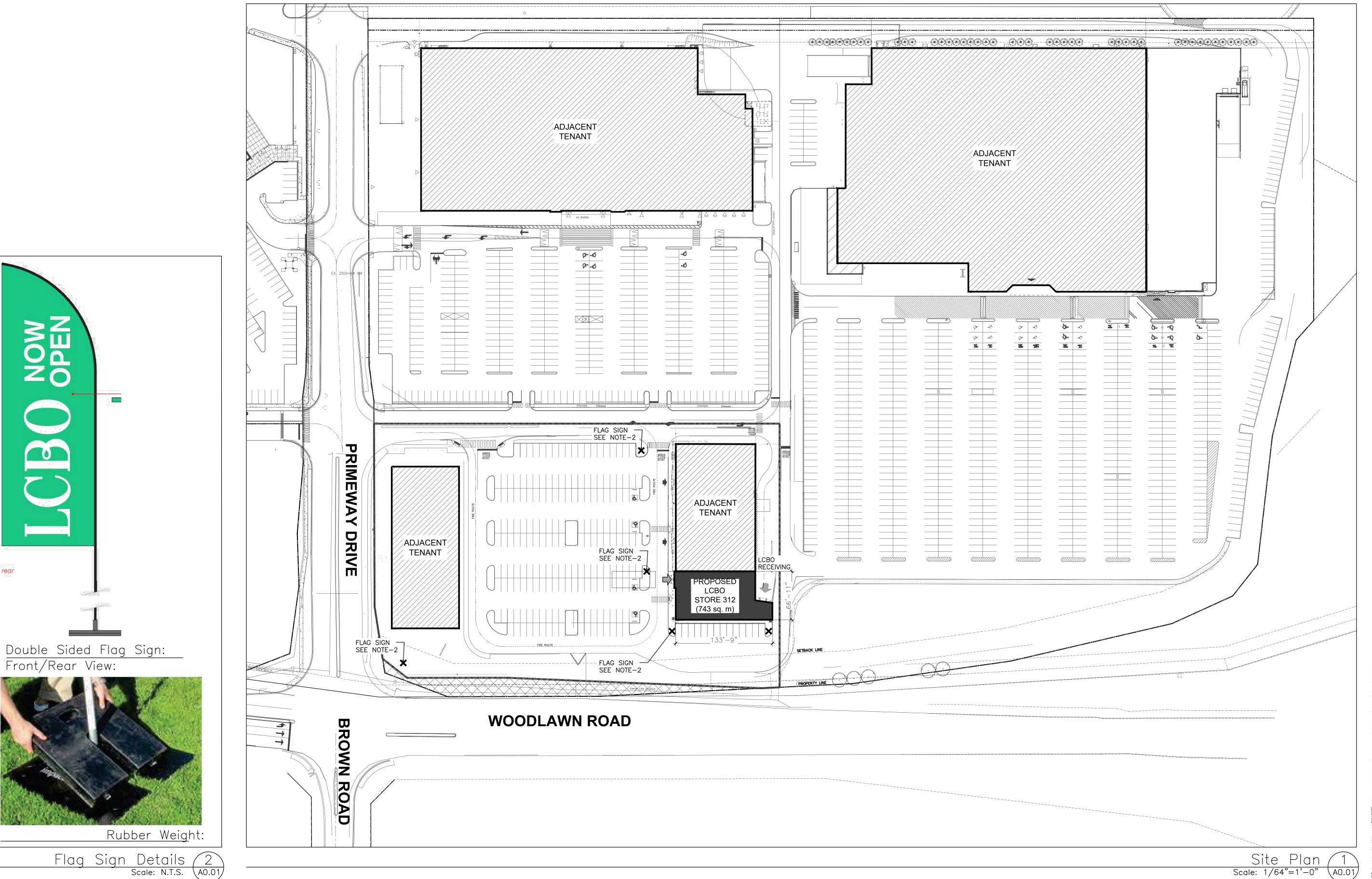
GENERAL NOTES:

.THIS SITE PLAN, AS PREPARED BY LANDLORD'S CONSULTANT, IS PROVIDED FOR REFERENCE ONLY. CONFIRM ALL LOCATIONS WITH LCBO COORDINATOR PRIOR TO INSTALLATION. REFER TO DWG 2/A0.01 FOR DETAILS.

3.LCBO SIGN CONTRACTOR TO PROVIDE & INSTALL ONE (1) SIGN INSERT AT ONE (1) PYLON SIGN.
LCBO SIGN TO BE INSTALLED IN EXIST BLANK LOCATION. SIZE TO BE CONFIRMED WITH LCBO
COORDINATOR.

TEMPORARY FLAG SIGNS:

- ALL EXTERIOR FLAG SIGNS TO BE SUPPLIED BY LCBO SIGN CONTRACTOR.
- LOCATION OF FLAG SIGNS TO BE COORDINATED WITH LCBO PROJECT COORDINATOR.
- SIGNAGE CONTRACTOR TO REVIEW AND CONFIRM ZONING BYLAWS FOR TEMPORARY SIGNS WITH THE MUNICIPALITY TO ENSURE TEMPORARY SIGNS ARE APPROVED BY THE CITY/MUNICIPALITY.
- SIGN CONTRACTOR TO APPLY FOR AND PAY FOR ALL REQUIRED PERMITS.
- COORDINATE DESIGN AND REQUIRED PRINT WITH MANUFACTURER.
- INSTALL TEMPORARY FLAG SIGNS AS RECOMMENDED BY GRAPHICS MANUFACTURER.
- ON THE MORNING OF THE STORE OPENING (CONFIRM DATE WITH PROJECT COORDINATOR), SIGN CONTRACTOR TO RETURN TO SITE TO INSTALL "NOW OPEN" FLAG SIGNS BEFORE 8:00AM.
- SIGN CONTRACTOR TO SUBMIT PRODUCT DATA AND MSDS INFORMATION SHEETS FOR LCBO REVIEW AND APPROVAL.



I B I

IBI GROUP

7th Floor - 55 St. Clair Avenue West Toronto ON M4V 2Y7 Canada tel 416 596 1930 fax 416 596 0644 ibigroup.com

STORE #312 102 Primeway Drive BLDG. E3 WELLAND, ON

II BY IV Design Associates 77 Mowat Avenue, Suite 109 Toronto, Ontario M6K 3E3

t.416 531 2224 w. www.iibyiv.com

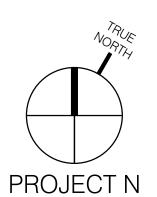
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|General Notes:

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8. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT, PLEASE GO TO:BIDDINGO.COM/LCBO



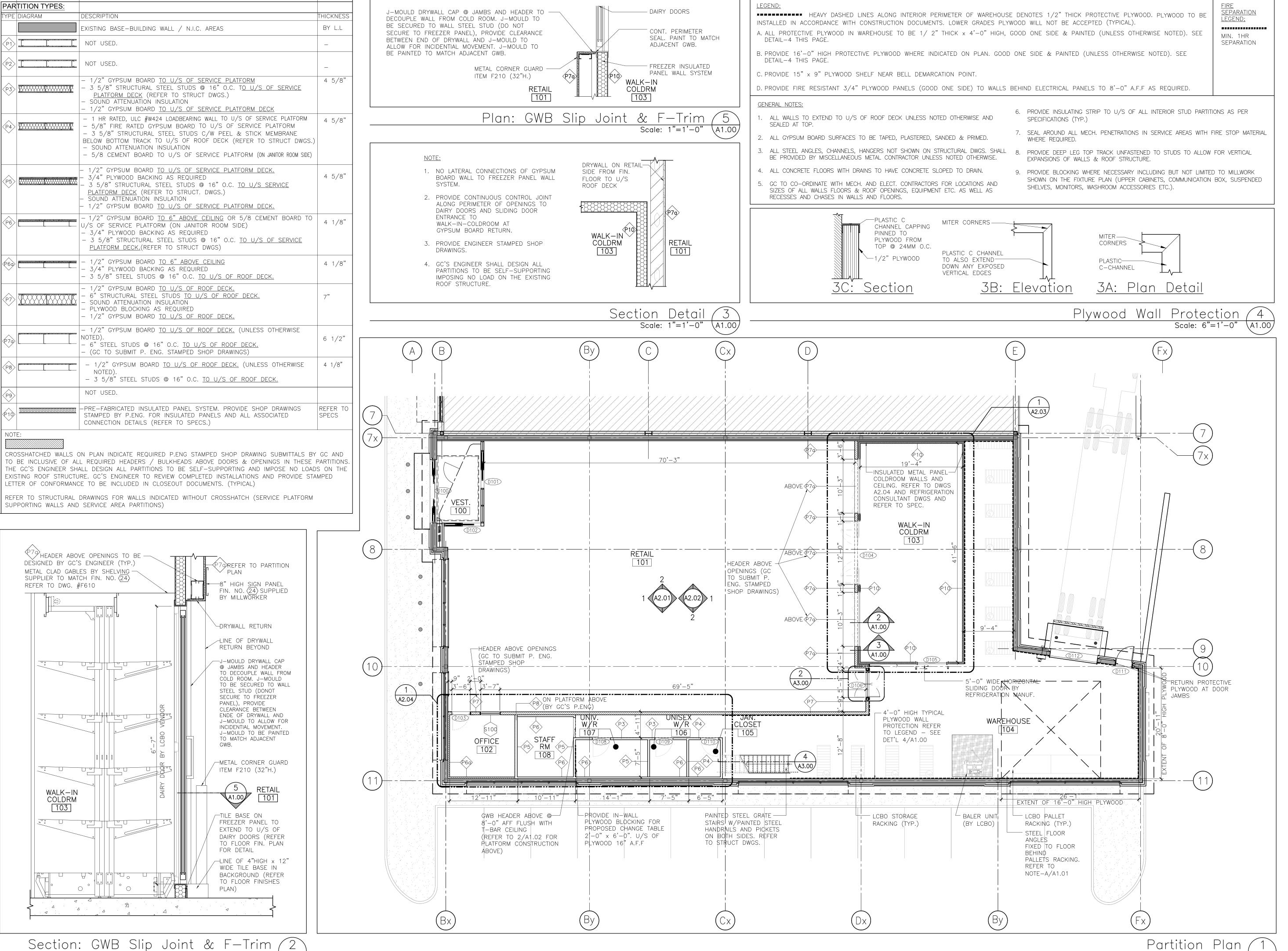
September 10, 2020

LCBO Store No. 312

Interior Fit-Up Welland, Ontario

Site Plan

Scale: 1/64"=1'-0" \A0.01



Scale: 1"=1'-0" \A1.00

BI

IBI GROUP 7th Floor - 55 St. Clair Avenue West Toronto ON M4V 2Y7 Canada tel 416 596 1930 fax 416 596 0644

ibigroup.com

STORE #312 102 Primeway Drive BLDG. E3 WELLAND, ON

II BY IV Design Associates 77 Mowat Avenue, Suite 109 Toronto, Ontario M6K 3E3

t.416 531 2224 w. www.iibyiv.com

Context Plan

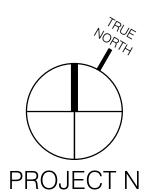
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SUBJECT PROPERTY—

General Notes:

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8. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT, PLEASE GO TO:BIDDINGO.COM/LCBO



5 2020-09-10 Issued for Tender

September 10, 2020 124852 1/8" = 1'-0"

LCBO Store No. 312 Interior Fit-Up Welland, Ontario

Partition Plan

Scale: 1/8"=1'-0" (A1.00)

NOTE: SEISMIC RESTRAINT: (THIS STORE IS LOCATED WITHIN A SEIMIC ZONE:

- G.C TO SUBMIT P.ENG STAMPED DRAWINGS WITH RESPECT TO SEISMIC RESTRAINTS FOR:
 -SUSPENDED CEILINGS AND OTHER ATTACHMENTS TO CEILINGS WITH INDEPENDENT
 VERTICAL SUPPORT.
 -FIXTURES.
- ALSO REFER TO SPECIFICATIONS AND STRUCTURAL, MECHANICAL, ELECTRICAL AND COLDROOM DRAWINGS FOR ADDITIONAL SEISMIC REQUIREMENTS.
- LCBO EQUIPMENT VENDOR TO SUBMIT P.ENG STAMPED DRAWINGS WITH RESPECT TO SEISMIC RESTRAINTS FOR WAREHOUSE PALLET RACKING.

NOTES FOR PLYWOOD BACKING IN ELECTRICAL PANELS:

- PROVIDE 3/4" FIRE RESISTANT PLYWOOD PANELS (GOOD ONE SIDE) TO WALLS BEHIND ELECTRICAL PANELS TO 8"-0" A.F.F. AS REQUIRED.
- PROVIDE 15" x 9" PLYWOOD SHELF NEAR BELL DEMARCATION POINT.

MILLWORK/SIGNAGE/REFRIGERATION/METAL SHELVING/ WAREHOUSE RACKING NOTES:

A. ALL MILLWORK, LIFT TABLE, METAL SHELVING, SIGNAGE, REFRIGERATION, RACKING AND PAINTED WIRE MESH STEEL CAGE IN STEEL FRAMING SUPPLIED AND DELIVERED BY LCBO. FIT—UP G.C TO COORDINATE INSTALLATION WITH RESPECTIVE VENDORS.

HALF MOON PROTECTOR, REFER TO SPECIFICATIONS. (N.I.C.)

DENOTES TYP. DISPLAY BASKETS (N.I.C.) SUPPLIED BY LCBO

G.C TO COORDINATE WITH STORE MANAGER AT STORE TURNOVER DATE AND INSTALL THE FOLLOWING ITEMS PROVIDED BY LCBO, SECURED TO WALL:

— UP TO TWO (2) CORK BOARDS/WHITE BOARDS.

LIFT TABLE HANDLE.FIRSTAID KIT.

GC TO INSTALL AT FINAL LOCATIONS AS VERIFIED BY STORE MANAGER.

GENERAL NOTES AND LEGEND:

. ALL WAINSCOTING IN VESTIBULE TO BE INSTALLED ON ALL VERTICAL SURFACES AND SHALL EXTEND BELOW WINDOW SILLS WHERE APPLICABLE. SEE STD. DETAIL F802 (TYP.).

2. STAINLESS SECURITY GATE SYSTEM, 1 ARM, BY BOLDUC SOLUTION. SUPPLIED AND INSTALLED BY G.C.

MODEL #BMS-5M42-45 (SINGLE SWING ARM ONLY)

DIM: 42"D x 45"W ENSURE OPTIONS ARE INCLUDED: EMERGENCY BUTTON, PROTECTIVE RUBBER

PADS, HANDICAP ACCESSIBILITY BUTTON, AND WRONG WAY DETECTION SYSTEM.

PROVIDE ADDITIONAL FREESTANDING ST. STEEL POSTS AS SHOWN CONTACT: ETIENNE AUDET (TEL: 1-418-427-3248, 1-888-478-3248,

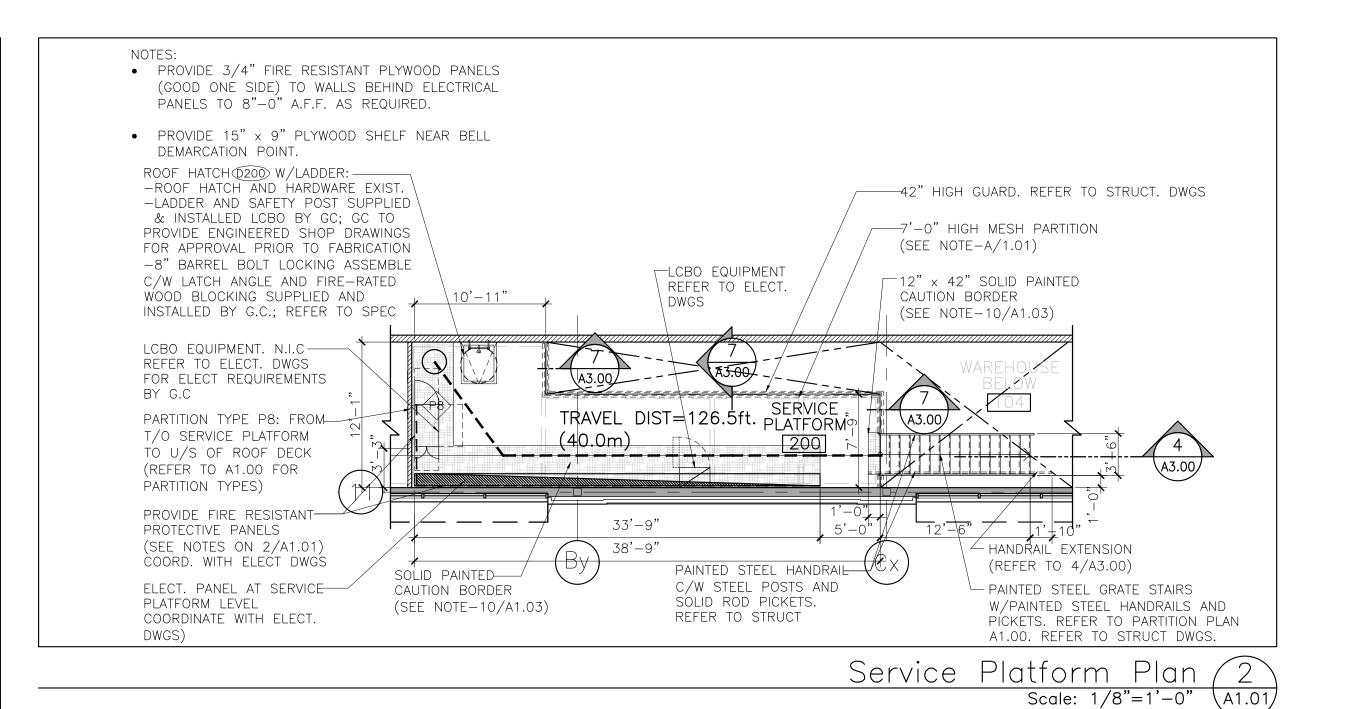
EMAIL: eaudet@bolducolution.com)
REFER TO SPEC.

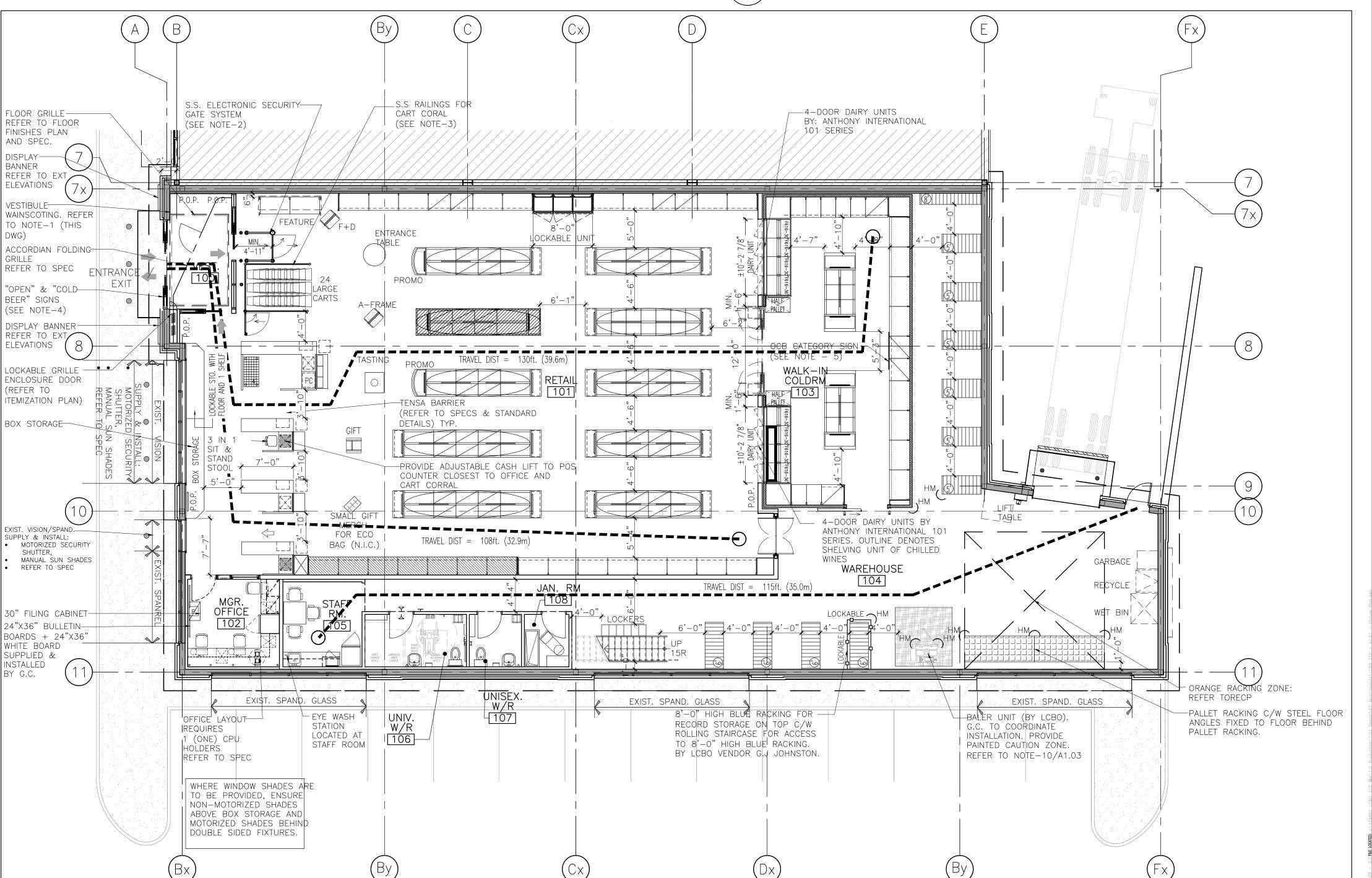
REFER TO SPEC

3. ST. STEEL RAILINGS (CART CORRAL/MAGNETIC GATE ON MILLWORK) COMPLETE W/ANCHOR LEG AND DECORATIVE CAP.

-BY BOLDUC SOLUTIONS
-DIM.: CUSTOMIZED TO STORE. SHOP.
-DRAWING TO BE PROVIDED FOR APPROVAL.
-SUPPLIED AND INSTALLED BY G.C.

4. BEER COLD ROOM TO HAVE 1 OCB CATEGORY SIGN CENTERED IN FRONT OF BCR ENTRANCE







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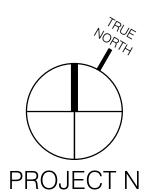
Context Plan

SUBJECT PROPERTY

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Rev.: Date:

Interior Fit—Up Welland, Ontario

Fixture Plan

Orawing Title:

Fixture Plan

Scale: 1/8"=1'-0" \A1.01

REFLECTED CEILING NOTES:

- ALL SUSPENDED LINEAR LIGHT FIXTURES, TRACK LIGHTS TO BE SECURED TO UNISTRUT.

 ALL UNISTRUT & THREADED RODS TO BE SECURED TO TOP OF EXIST ROOF JOISTS (U/S JOIST ±18'-6" A.F.F), SITE VERIFY. PAINT FIN. PT14 .

 G.C. TO SUPPLY AND INSTALL ALL UNISTRUT COMPONENTS REQUIRED TO SUSPEND ALL LIGHT FIXTURES/SIGNAGE/LIGHTING.

 REFER TO ARCHITECTURAL DRAWINGS.
- 2. EMERGENCY ASSISTANCE SIGN (ADJACENT TO ASSISTANCE REQUIRED PULL SIGNAL) BY G.C: LETTERS TO BE BLACK LETTERING AT LEAST 1"(25mm)"HIGH WITH A 5mm STROKE ON SILVER LAMACOID LABEL:
 SIGN TO READ AS FOLLOWS: "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE." SIGN TO BE MOUNTED ABOVE EMERGENCY PUSH BUTTON (REFER TO ELECT DWGS).
- 3. EMERGENCY VISUAL/AUDIBLE SIGNALS BY G.C:
 EMERGENCY VISUAL SIGNAL INSTALLED AT H=7'-6" A.F.F AT UNIVERSAL WASHROOM AND 8'-0"A.F.F AT RETAIL. (REFER TO ELECT DWGS).
 LIGHT/HORN TO BE LOCATED ABOVE DOOR, ONE EACH SIDE FOR UNIVERSAL WASHROOM.
- 4. EXPOSED RETAIL AREA CEILINGS FINISH: ALL EXIST. AND NEW EXPOSED CEILING STRUCTURE, MECH. DUCT WORK, CONDUITS, THREADED RODS, ETC. TO RECEIVE PT. FIN. NO. PT14 THROUGHOUT (TYP.). EXPOSED CEILING HEIGHT AT RETAIL.
- U/S OF METAL ROOF DECK = ± 21 "-10"AFF.
- U/S OF ROOF JOIST = $\pm 18'-6$ "AFF (SITE VERIFY).

5. WAREHOUSE AREA CEILINGS FINISH:

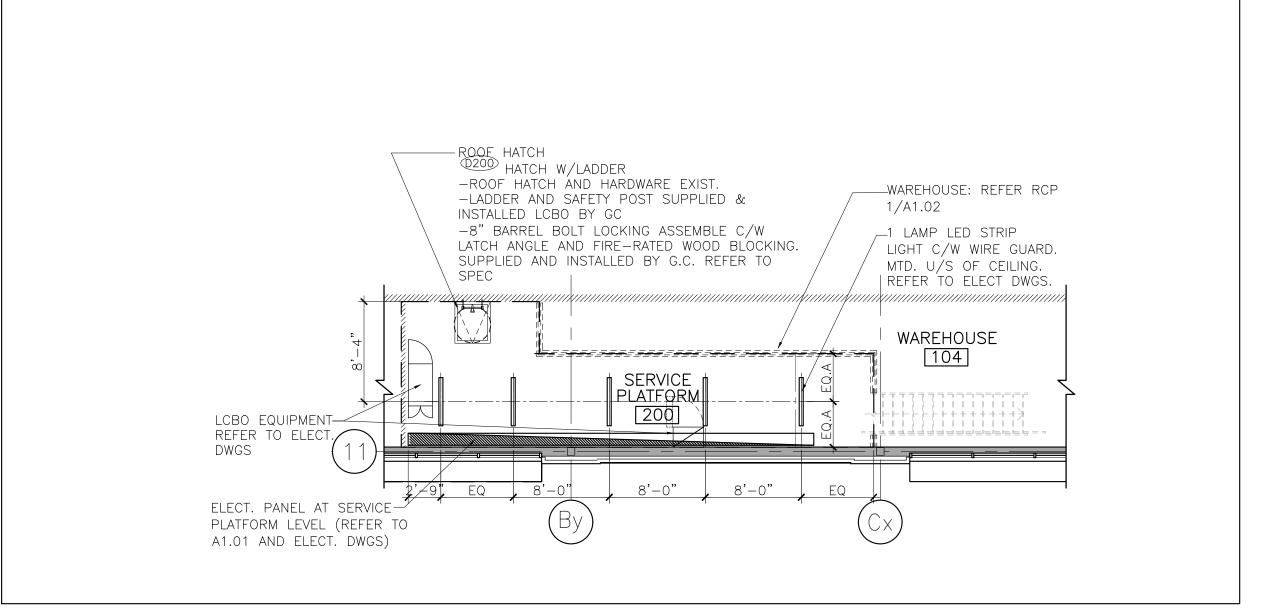
- ALL EXIST. AND NEW EXPOSED CEILING STRUCTURE, DUCTING, CONDUITS, ETC. TO RECEIVE PT. FIN. NO. PT14 THROUGHOUT (TYP.) UNLESS NOTED OTHERWISE. EXPOSED CEILING HEIGHT AT WAREHOUSE:
- U/S OF METAL ROOF DECK = ±21"-10"AFF.
- U/S OF ROOF JOIST = $\pm 19'-10"$ AFF (SITE VERIFY).
- . SUSPEND LINEAR TRAY LIGHT FIXTURES MOUNTED 11'-6" A.F.F. SUSPENDED ON AIRCRAFT CABLE. POWER CORDS FOR GENERAL RETAIL FIXTURES TO BE AT EAST END OF ALL FIXTURES UNLESS OTHERWISE NOTED.

NOTE: SEISMIC RESTRAINT: (THIS STORE IS LOCATED WITHIN A SEIMIC ZONE:

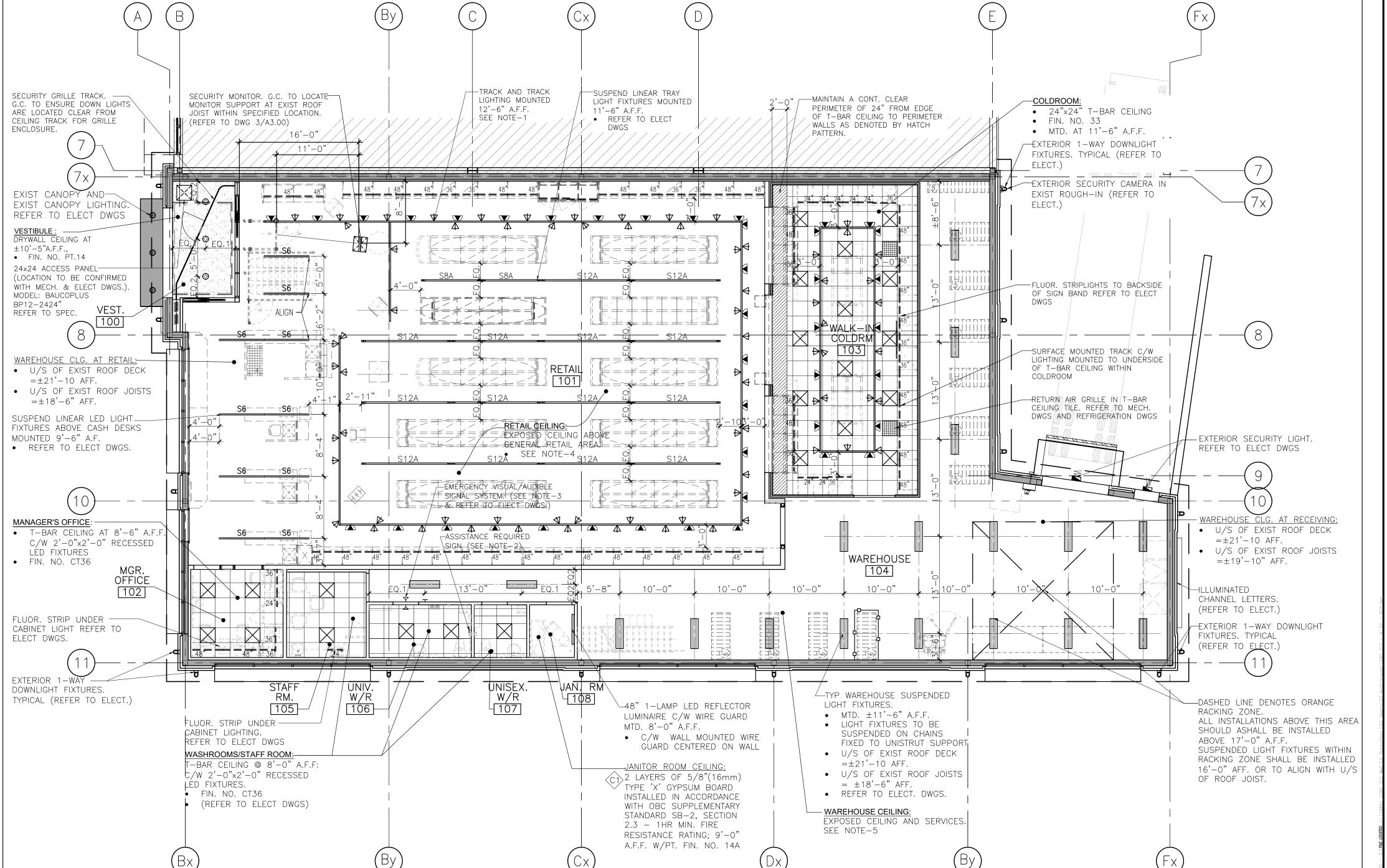
- G.C TO SUBMIT P.ENG STAMPED DRAWINGS WITH RESPECT TO SEISMIC RESTRAINTS FOR:
 -SUSPENDED CEILINGS AND OTHER ATTACHMENTS TO CEILINGS WITH INDEPENDENT
 VERTICAL SUPPORT.
 -FIXTURES.
- ALSO REFER TO SPECIFICATIONS AND STRUCTURAL, MECHANICAL, ELECTRICAL AND COLDROOM DRAWINGS FOR ADDITIONAL SEISMIC REQUIREMENTS.
- LCBO EQUIPMENT VENDOR TO SUBMIT P.ENG STAMPED DRAWINGS WITH RESPECT TO SEISMIC RESTRAINTS FOR WAREHOUSE PALLET RACKING.

STANDARD NOTES:

- A. 1. MECHANICAL AND ELECTRICAL WORK TO COMPLY WITH THE REQUIREMENTS OF THE BUILDING LANDLORD AND AUTHORITIES HAVING JURISDICTION.
- B. 2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CEILING FIXTURES. REFER TO ENGINEERING DRAWINGS FOR SPECIFICATIONS.
- C. 3. CONTRACTOR TO CROSS REFERENCE BETWEEN ARCHITECT'S RCP, ENGINEER'S MECHANICAL DRAWINGS AND SITE CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION.
- D. 4. G.C TO PROVIDE OPENINGS IN DRYWALL CEILING TO ACCOMMODATE SPRINKLERS, EXIT LIGHTS, ACCESS PANELS, RECESSED DOWN LIGHTS, AIR DIFFUSERS. CONTRACTOR TO REFER TO REFLECTED CEILING PLAN AND ENGINEERING DRAWINGS AND SPECIFICATIONS.
- E. 5. LIGHT FIXTURES TO BE LOCATED IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS. REPORT DISCREPANCIES TO THE DESIGNER PRIOR TO INSTALLATION.
- F. ELECTRICAL CONSULTANT TO CONFIRM QUANTITY AND LOCATION OF LUMINARIES REQUIRED TO ACHIEVED LCBO MINIMUM AVERAGE OF 50 FOOT CANDLES AND WITH A LUMEN POWER DENSITY NO HIGHER THAN 1.06. ELECTRICAL CONSULTANT TO ENSURE NO DARK SPOTS. REPORT ANY DISCREPANCIES TO DESIGNER.
- G. G.C. TO VERIFY & COORDINATE LOCATION OF ALL DUCTS/HVAC UNITS AS PER MECHANICAL DRAWINGS IN CONJUNCTION WITH LAYOUT OF RCP
- H. CEILING HEIGHTS TO BE REFERENCED FROM ARCHITECTS DRAWINGS. G.C TO CONFIRM CEILING HEIGHT & CONDITIONS AND NOTIFY ARCHTECT OF ANY DISCREPANCIES.
- I. ENERGY NETWORK SERVICES (ENS) TO VERIFY QUANTITY OF FIXTURES PRIOR TO ORDERING AND INSTALLING. ENS TO SUBMIT CUT SHEETS AND SHOP DRAWINGS TO CLIENT AND CONSULTANTS FOR REVIEW PRIOR TO FABRICATION.
- J. ALL LIGHT FIXTURES, BALLAST, LAMPS, ETC. TO BE SUPPLIED BY LCBO (ENS) AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. CONTACT JOHN ZAIM, LCBO@ENSINC.CA / JZAIM@ENSINC.CA PH.: 905-763-2946 EXT.229.
- K. ALL LIGHT FIXTURES, BALLAST, LAMPS, ETC. TO BE SUPPLIED BY LCBO (ENS) AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. CONTACT JOHN ZAIM, LCBO@ENSINC.CA / JZAIM@ENSINC.CA PH.: 905-763-2946 EXT.229
- L. ENS TO SUPPLY ALL FLUORESCENT LIGHT FIXTURES IN PERIMETER METAL SIGNBAND/CANOPIES. G.C TO COORDINATE AND INSTALL, ELECTRICAL CONNECTIONS BY G.C ELECTRICAL. REFER TO REFLECTED CEILING PLAN FOR QUANTITIES.
- M. G.C. TO VERIFY & COORDINATE WITH **ENS** FOR DELIVERY OF ALL INTERIOR LIGHT FIXTURES, BALLAST, AND LAMPS AS PER THE LIGHTING LEGEND. **ENS** WILL INCLUDE A LIGHTING AUDIT AND ORDERING ORIENTATION FOR ALL STAFF, THE COSTS ASSOCIATED WITH THE AFOREMENTIONED SHALL BE PART OF THE CONTRACTOR'S PRICE.
- N. G.C. TO ENSURE ALL WIRE MANAGEMENT IS KEPT NEAT, TIDY, AND SECURE WITHIN A WIRE—TROUGH SECURED TO THE UNDERSIDE OF THE SLAB WHERE POSSIBLE.
- O. ALL BALLASTS TO HAVE LOW BALLAST FACTOR OF 0.77/0.78
- P. L5/L7 FIXTURES TO ALIGN AS NOTED IN DRAWING. MANUFACTURER TO ENSURE FABRICATION AS PER DRAWING WHILST USING THE LEAST VARIATION IN COMPONENT LENGTHS



Service Platform Reflected Ceiling Plan (2)
Scale: 1/8"=1'-0" (A1.02)



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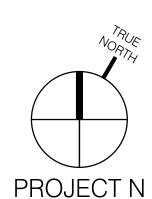
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Date: Description: Initia

September 10, 2020

LCBO Store No. 312 Interior Fit—Up Welland, Ontario

Project No.: Scale: Drawn by: Checked by:

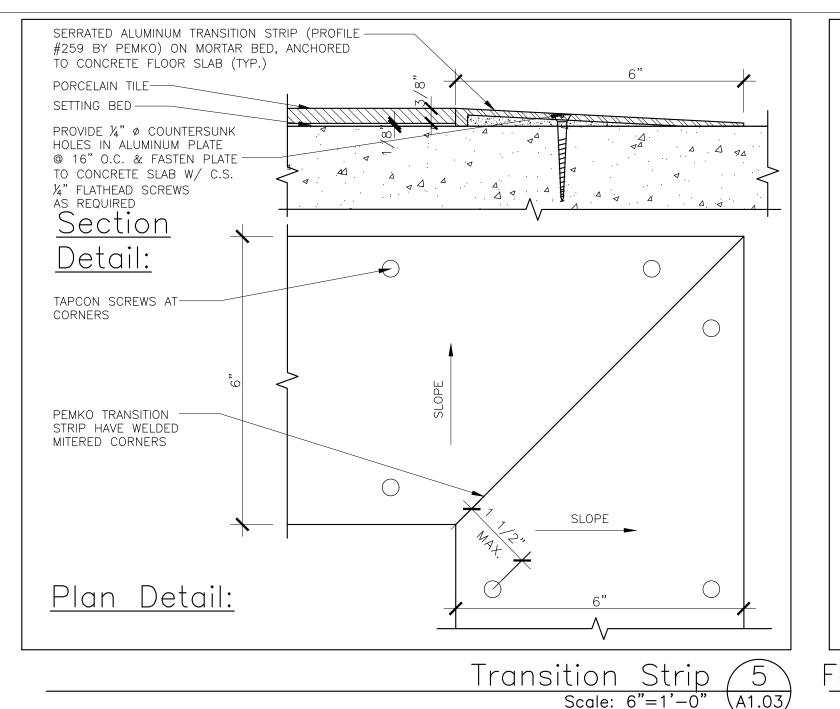
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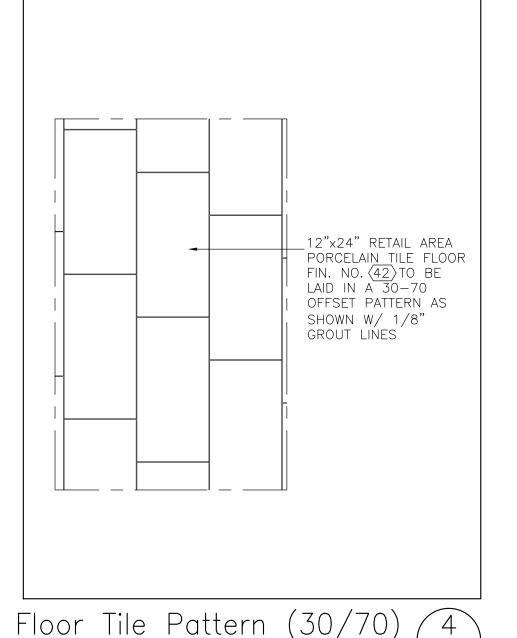
Reflected Ceiling Plan

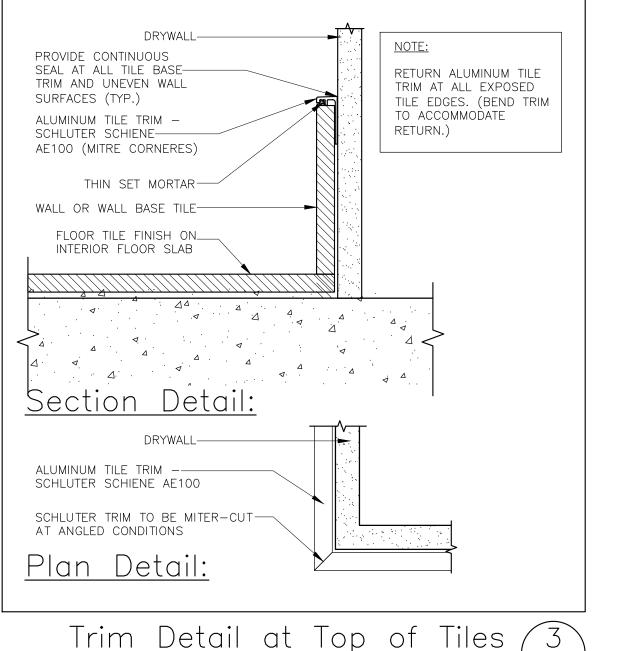
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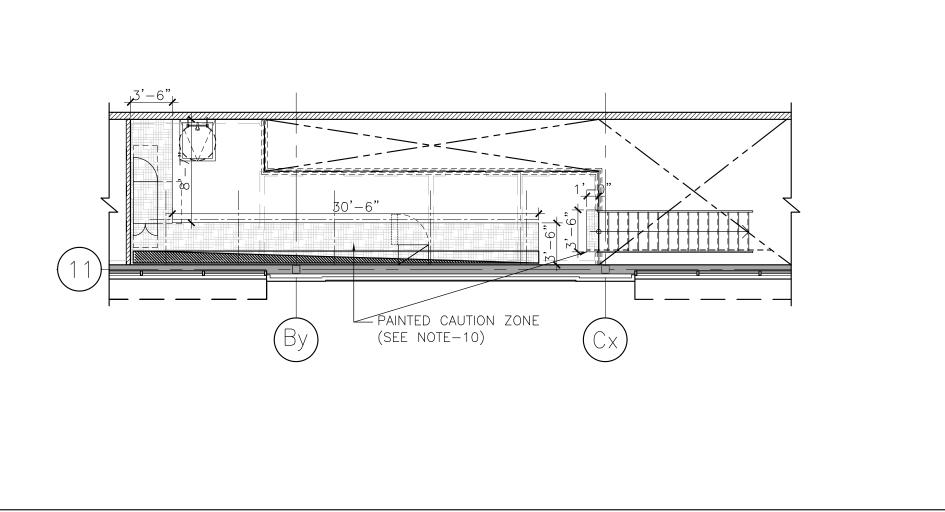
Reflected Ceiling Plan

Scale: $1/8"=1'-0" \setminus A1.02$









Service Platform: Floor Finishes Plan (2)
Scale: 1/8"=1'-0" (A1.03)

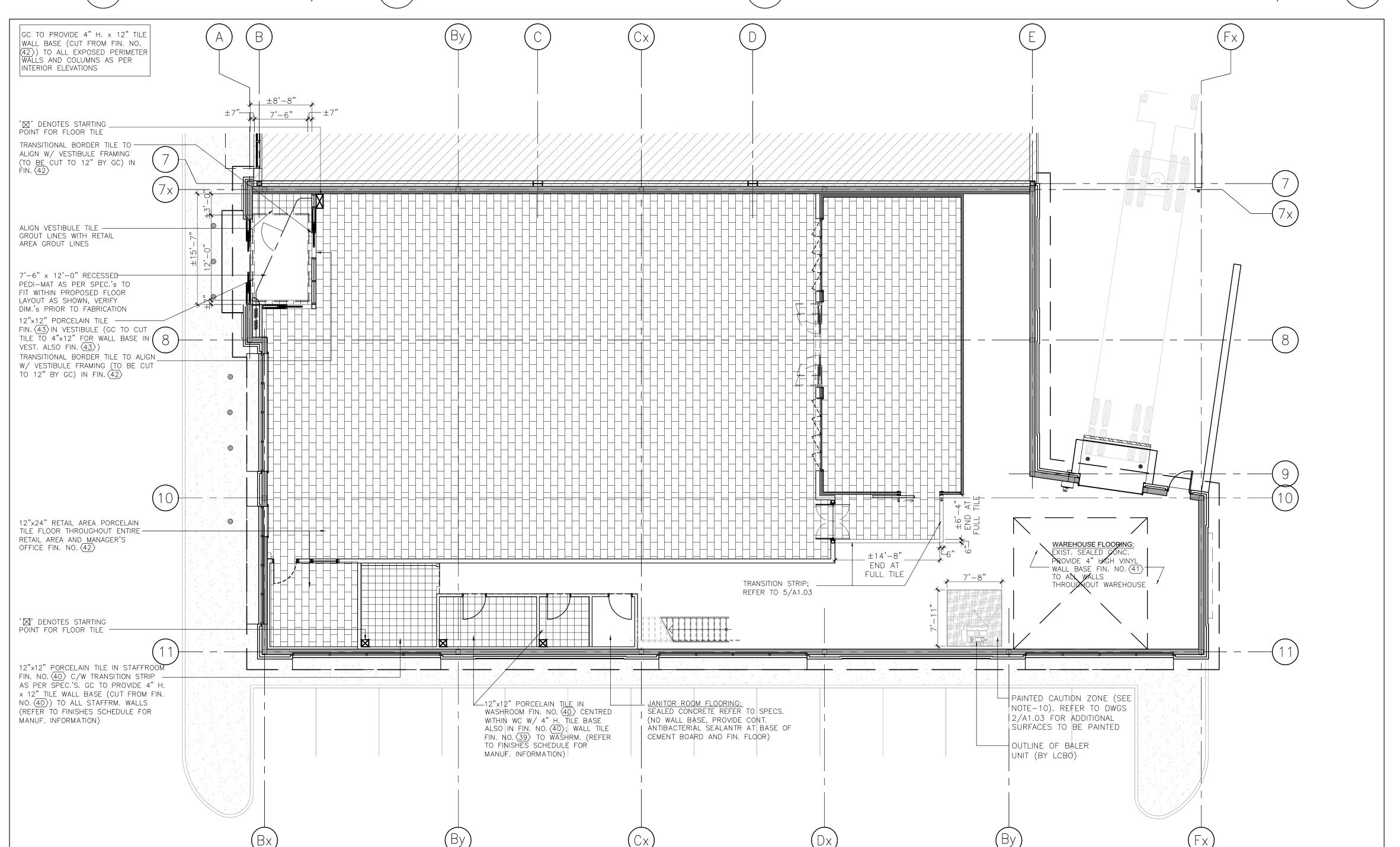
GENERAL NOTES:

1. REFER TO SUPPLEMENTAL FINISHES SCHEDULE A4.00 FOR ALL MATERIAL SPECIFICATIONS AND SUPPLIER CONTACT INFORMATION.

- 2. GC TO ENSURE ALL EXISTING CONCRETE FLOORS ARE LEVEL. WHERE CONC SLAB IS NOT EVEN/LEVEL, G.C TO PROVIDE ADDITIONAL MORTAR BED TO LEVEL OUT FLOOR PRIOR TO TILE SUBTRADE'S WORK WHERE REQUIRED. ALL FINISHED TILED FLOOR AREAS TO BE EVEN AND LEVEL.
- 3. PROVIDE SELF-LEVELING COMPOUND TO BRING EXIST FLOOR SLAB TO FLATNESS LEVEL REQUIRED TO ACHIEVE LEVEL TILE FLOOR. (REFER TO SPECIFICATION SECTION 09-30-00).
- 4. ALL FLOOR TILE JOINTS (MAX. 1/8" THICK) TO ALIGN WITH GENERAL RETAIL AREA FLOOR TILE JOINTS.
- 5. ALL WALL BASE TO RECEIVE ALUMINUM TILE TRIM. REFER TO WALL BASE DETAIL, THIS PAGE.
- 6. FLOORING SUBTRADE TO 'DOUBLE—BUTTER' (APPLY ONE LAYER OF MORTAR TO TILE AND AN ADDITIONAL LAYER OF MORTAR TO SLAB) ALL STRENGTH OF FLOOR TILE.
- 7. REFER TO SPECIFICATIONS FOR A LIST OF PREFERRED FLOORING INSTALLERS.
- 8. GC TO PROVIDE 4" H. VINYL WALL BASE FIN. NO. 41 TO ALL WALLS THROUGHOUT WAREHOUSE.
- 9. THE EXISTING FLOOR SLAB WILL BE FLAT TO FF50 AND FL40, PROVIDE ANY SELF-LEVELING REQUIRED TO INSTALL TILES TO MEET SPECIFIED FLATNESS TOLERANCES.
- 10. PROVIDE ON—SITE PAINTED CAUTION ZONES (SOLID PAINTED AREA) WHERE INDICATED ON DWGS. PAINT SHALL BE ARMOURSEAL 8100 BY SHERWIN WILLIAMS (COLOUR: SAFETY YELLOW. FINISH: SATIN). CLEAN, DULL AND LET DRY AREAS TO BE PAINTED PRIOR TO COATING. TEST FOR POROSITY BEFORE PAINTING—MIST WATER ON SURFACE. WATER MUST PENETRATE, NO WATER BEADING SHOULD BE EVIDENT. ALSO REFER TO SPECIFICATIONS SECTION 09 91 00.1.
- 11. REFER TO LCBO FINISHES SCHEDULE FOR ALL MATERIAL SPECIFICATIONS
- 12. REFER TO SPECS FOR PREFERRED LIST OF FLOORING INSTALLERS.

TRANSITION STRIP NOTES:

- A. GC TO SUBMIT SHOP DRAWINGS AND SAMPLES FOR LCBO APPROVAL PRIOR TO INSTALLATION. ENSURE SURFACE TREATMENT PROVIDES HIGH SLIP COEFFICIENT.
- B. GC TO ENSURE STABILITY OF TRANSITION FIXATION METHOD TO WITHSTAND WEIGHT OF WAREHOUSE EQUIPMENT.
- C. GC TO ENSURE STEEL GAUGE WILL NOT BEND UNDER MAXIMUM LOADING REQUIREMENTS.



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Context Plan

Manual Rand

Workship Rand

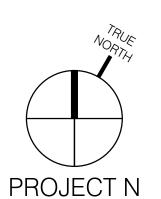
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LCBO Store No. 312 Interior Fit—Up Welland, Ontario

Project No.: Scale: Drawn by: Checked by:

Floor Finishes Plan

Orawing Title:

Floor Finishes Plan

Scale: 1/8"=1'-0" (A1.03)

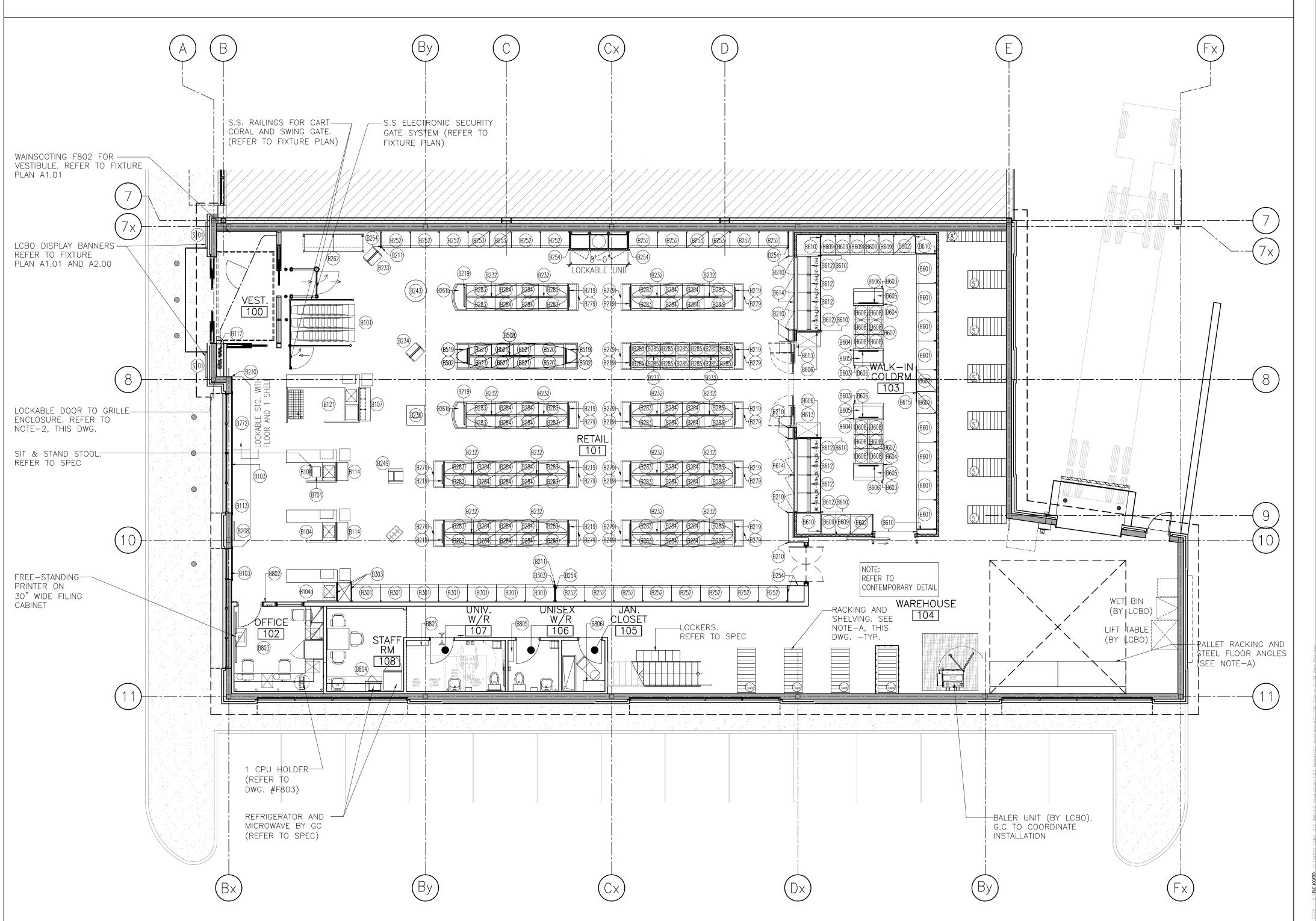
DENOTES TYPICAL DISPLAY BASKETS (N.I.C.) SUPPLIED BY LCBO

GENERAL NOTES AND LEGEND:

- 1. REFER TO STANDARD DETAIL'S ISSUANCE #16.
- 2. DOOR TO GRILLE ENCLOSURE TO BE LOCKABLE W/ PT. FIN. NO. 21A ON CONTINUOUS PIANO HINGE W/ 6" H. STAINLESS STEEL KICK PLATE. PROVIDE (1) CLEAR ANODIZED HANDLE BY HAFELE CAT# 124.02.920. HANDLE TO BE MOUNTED AT 40" A.F.F. LOCK TO BE RECESSED IN METAL KICK PLATE.
- 3. PROVIDE METAL CORNER GUARDS (AT 4'-0" HIGH) TO ALL OUTSIDE CORNERS IN WAREHOUSE AREA AS SHOWN ON PARTITION PLAN.

MILLWORK/SIGNAGE/REFRIGERATION/METAL SHELVING/WAREHOUSE RACKING NOTES:

A. ALL MILLWORK, LIFT TABLE, METAL SHELVING, SIGNAGE, REFRIGERATION AND RACKING SUPPLIED AND DELIVERED BY LCBO. FIT-UP G.C TO COORDINATE INSTALLATION WITH RESPECTIVE VENDORS.



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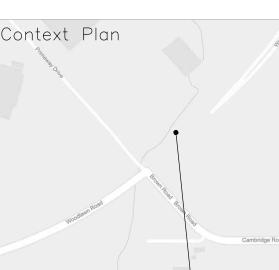
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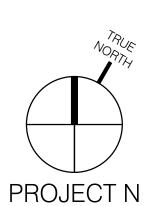
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September 10, 2020

124852 | 1/8"=1'⊣®" VG Project No.: Scale: Drawn by: Checked by: LCBO Store No. 312

Interior Fit-Up Welland, Ontario

Fixture and Millwork Itemization Plan

Millwork Itemization Plan

Scale: 1/8"=1'-0" (A1.04)

NOTE:

G.C. IS RESPONSIBLE FOR SUPPLY,
INSTALLATION AND CO-ORDINATION
OF ALL ITEMS ON THE DETAIL LIST

SS = SHELVING SUPPLIER
GC = GENERAL CONTRACTOR
MW = MILLWORK CONTRACTOR
SV = SIGN VENDOR

ITEM #	DETAIL TITLE	QTY.	WORK BY:	ITEM #	DETAIL TITLE	QTY.	WORK BY:
D101	B100 CHECK-OUT AREA/VESTIBULE	10 DE0'D			B300 VINTAGES	7	
B101 B102	CART CORRAL VESTIBULE COAT STORAGE	AS REQ'D.	. GC MW		4'-0" VINTAGES PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL (7'-10" HIGH) 3'-0" VINTAGES PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL (7'-10" HIGH)		SS/GC/MW SS/GC/MW
B103 B104	WINDOW SILL DETAIL CASH/CHECK-OUT DESK W/ GLASS PARTITION & BASKET WELL	AS REQ'D	MW MW	B303	VINTAGES PERIMETER SHELVING GABLE/FILLER PANEL RESERVED	4	MW
B104a	CASH/CHECK-OUT DESK & BASKET WELL	1	MW	B306	VINTAGES CONSULTANT'S DESK		MW
B105 B106	RESERVED 'U'-SHAPED CASH/CHECK-OUT DESK W/ BASKET WELL		MW		VINTAGES THC UNIT RESERVED		GC
B107 B108	MERCHANDISER FOR L-SHAPED CASH/SAME DAY PICK UP DESK RESERVED	1	MW MW	B337 B338	VINTAGES REMOVABLE GONDOLA P.O.P. FRAME VINTAGES METAL PLINTH (16" DEEP)		MW SS
B109	'U'-SHAPED CUSTOMER SERVICE DESK W/ BASKET WELL	_	MW	B339	VINTAGES 3-HIGH METAL GONDOLA END CAP PANEL		SS
B110 B111	INFORMATION BOARD DOUBLE-SIDED CORK BOARD		MW	B340 B341	VINTAGES GONDOLA METAL END DISPLAY SHELF VINTAGES 4'-0" GONDOLA (3 SHELVES)		SS SS
	FREE-STANDING BOX STORAGE BOX STORAGE	1	MW MW	B342 B343	VINTAGES 3'-0" GONDOLA (3 SHELVES) VINTAGES 2'-0" CONVERTIBLE GONDOLA (3 SHELVES)		SS SS
B114	CASH DESK MERCHANDISER - TYPE 2	2	MW	B344	VINTAGES 4'-0" GONDOLA (4 SHELVES)		SS
B115-B116 B117	RESERVED GRILLE ENCLOSURE POCKET DOOR PANEL DETAIL	1 1	MW	B345 B346	VINTAGES 3'-0" GONDOLA (4 SHELVES) VINTAGES 2'-0" CONVERTIBLE GONDOLA (4 SHELVES)		SS SS
B118 B119	CASH LIFT DESK — CLIENT TO CONFIRM DETAIL LIFT DESK FOR TYP. SINGLE CASH DESK B104 — CLIENT TO CONFIRM DETAIL	_	MW	B347	3-HIGH VINTAGES GONDOLA CATEGORY SIGN 4-HIGH VINTAGES GONDOLA CATEGORY SIGN		MW
B120	LIFT DESK FOR TYP. SINGLE CASH DESK B104a - CLIENT TO CONFIRM DETAIL	1	MW	B349	METAL GONDOLA END (NARROW) — VINTAGES		SS
B121 B122	LIFT DESK FOR TYP. 'L' SHAPE CASH DESK B121 — CLIENT TO CONFIRM DETAIL LIFT DESK FOR TYP. 'U' SHAPE SERVICE DESK B109 — CLIENT TO CONFIRM DETAIL		MW		3-HIGH 4'-0" METAL FLOOR GONDOLA (NARROW) - VINTAGES 3-HIGH 3'-0" METAL FLOOR GONDOLA (NARROW) - VINTAGES		SS SS
				B352	4-HIGH 4'-0" METAL FLOOR GONDOLA (NARROW) - VINTAGES		SS
				B353 B354	4-HIGH 3'-0" METAL FLOOR GONDOLA (NARROW) - VINTAGES 2'-6" VINTAGES PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL		SS SS/MW
B201	B200 GENERAL LIST 4'-0" PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL & METAL TICKET MOULDINGS (7'-6" HIGH)	_	SS/GC/MW		3-HIGH 48" VINTAGES PERIMETER METAL SHELVING UNIT W/ WOOD TICKET MOULDING 3-HIGH 36" VINTAGES PERIMETER METAL SHELVING UNIT W/ WOOD TICKET MOULDING		SS SS
B202	3'-0" PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL & METAL TICKET MOULDINGS (7'-6" HIGH)	_	SS/GC/MW	B357	3-HIGH 24" VINTAGES PERIMETER METAL SHELVING UNIT W/ WOOD TICKET MOULDING		SS
B203 B204-B205	PERIMETER SHELVING GABLE/FILLER PANEL (7'-6" HIGH) RESERVED	_	MW	B358 B359	1-MODULE VINTAGES PERIMETER LOCKABLE DISPLAY 2-MODULE VINTAGES PERIMETER LOCKABLE DISPLAY		GC/MW GC/MW
B206	REFRIGERATION GABLE/FILLER PANEL	_	MW cc/cc/hhu	B360	3-MODULE VINTAGES PERIMETER LOCKABLE DISPLAY	_	GC/MW
B207 B208	2'-0" PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL & METAL TICKET MOULDINGS TYPICAL P.O.P. FRAME DETAILS	5	SS/GC/MW MW	B361 B362	RESERVED VINTAGES 4—HIGH METAL GONDOLA END CAP PANEL		SS
	RESERVED 2" x 2" x 32" METAL CORNER GUARD		MW MW	B363 B364	VINTAGES DOUBLE-SIDED FIXTURE W/ FRONT LED CANOPY ILLUMINATION VINTAGES DOUBLE-SIDED FIXTURE W/ FRONT & BACK LED CANOPY ILLUMINATION		SS SS
B211	u'-shaped metal corner (36" high w/ 2" returns)	2	MW	2204	VITATIMOLO DOUDLE SIDED FINTUNE WY FINOINT & DACK LED CANOFT ILLUMINATION		
	RESERVED PRODUCT RISER (TYPE A)	18	MW	<u> </u>	B400 SERIES		
B215	PRODUCT RISER (TYPE B)	9	MW				
	RESERVED REMOVABLE GONDOLA P.O.P FRAME	18	MW				
B220	RESERVED	_	MW		DEOO VOA		
B221 B222	4'-0" GONDOLA (3 SHELVES) C/W METAL TICKET MOULDINGS RESERVED	_	SS	B501	B500 VQA RESERVED		
B223 B224	3'-0" GONDOLA (3 SHELVES) C/W METAL TICKET MOULDINGS 2'-0" CONVERTIBLE GONDOLA (3 SHELVES) C/W METAL TICKET MOULDINGS	_	SS SS	B502 B503-B505	VQA REMOVABLE GONDOLA P.O.P. FRAME RESERVED	2	MW
B225	2'-0" CONVERTIBLE GONDOLA (4 SHELVES) C/W METAL TICKET MOULDINGS	_	SS	B506	VQA GONDOLA SIGNAGE — TYPE A (4—HIGH)		MW
B226 B227	RESERVED 4'-0" GONDOLA (4 SHELVES) C/W METAL TICKET MOULDINGS	_	SS	B507 B508	RESERVED VQA GONDOLA SIGNAGE — TYPE B (4—HIGH)	1	MW
B228	3'-0" GONDOLA (4 SHELVES) C/W METAL TICKET MOULDINGS	_	SS	B509-B516	RESERVED		
B229 B230-B231	GONDOLA CATEGORY SIGN RESERVED	_	MW	B517 B518	VQA GONDOLA SIGNAGE — TYPE A (3 HIGH) VQA GONDOLA SIGNAGE — TYPE B (3—HIGH)		MW
B232 B233	4—HIGH GONDOLA CATEGORY SIGN FOOD & DRINK STAND	18	MW MW		4-HIGH VQA METAL GONDOLA END 4-HIGH 4'-0" METAL FLOOR GONDOLA	2	SS SS
B234	'A'-FRAME FIXTURE	1	MW	B521	4-HIGH 3'-0" METAL FLOOR GONDOLA	6	SS
B235 B236	RESERVED PORTABLE TASTING BAR	<u> </u>	MW		3-HIGH VQA METAL GONDOLA END 3-HIGH 4'-0" METAL FLOOR GONDOLA		SS SS
B237	'IMPULSE' FIXTURE	_	MW	B524	3-HIGH 3'-0" METAL FLOOR GONDOLA		SS
B238 B239	'DEAL OF THE WEEK' FIXTURE 4'-0" SQUARE PROMO TABLE	_	MW		B600 WALK-IN COLDROOM		
B240 B241	3'-3" MARKETPLACE DISPLAY TABLE NESTING TABLES	_	MW MW	B601 B602	4'-0" WALK-IN COLDRM PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL 3'-0" WALK-IN COLDRM PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL	8	SS/GC SS/GC
B242	5'-0" NESTING TABLE	_	MW	B603	WALK-IN COLDROOM END PLINTH	4	SS
B243 B244	3'-0"Ø ENTRANCE TABLE DOUBLE-SIDED GIFT/SPIRITS FIXTURE W/ METAL SHELVES (ILLUMINATED) (7'-6" H.)	1 –	MW GC/SS	B604 B605	WALK-IN COLDROOM END CAP PANEL WALK-IN COLDROOM GONDOLA END DISPLAY SHELVES	4 4	SS SS
B245-B246	RESERVED		,	B606	GONDOLA REMOVABLE P.O.P FRAME	6	SS
B247 B248	GONDOLA METAL END CAP PANEL (54" HIGH) RESERVED	_	SS	B606a B607	WALK-IN COLDROOM GONDOLA W/ ILLUMINATED P.O.P. FRAME WALK-IN COLDROOM GONDOLA CATEGORY SIGN	2	SS/GC SS
B249 B250	GIFT PACKAGING FIXTURE RESERVED	1	MW		WALK-IN COLDROOM CONVERTIBLE GONDOLA (4 SHELVES) C/W METAL TICKET MOULDINGS 2'-O" WALK-IN COLDRM PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL	12	SS SS/GC
B251	GONDOLA END METAL DISPLAY SHELF W/ METAL TICKET MOULDING (TYPE B)	_	SS	B610	WALK-IN COLDROOM WALL FIXTURE METAL END GABLES	11	SS
B252 B253	4'-0" PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL & METAL TICKET MOULDINGS $(7'-10" H.)$ $3'-0$ " PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL & METAL TICKET MOULDINGS $(7'-10" H.)$	17	SS/GC/MW SS/GC/MW	B611 B612	WALK-IN COLDROOM PERIMETER SIGN BAND/WALLPAPER CHANNEL WALK-IN COLDROOM DOUBLE-SIDED COOLER SHELVING	8	SS
B254	PERIMETER SHELVING GABLE/FILLER PANEL (7'-10" H.)	7	MW	B613	WALK-IN COLDROOM HALF PALLET DISPLAY	2	SS
B257	RESERVED $2'-0"$ PERIMETER METAL SHELVING UNIT C/W FASCIA PANEL & METAL TICKET MOULDINGS (7'-10" H.)	_	SS/GC/MW	B614 B615	WALK-IN COLDROOM DOUBLE-SIDED COOLER SHELVING MILLWORK FASCIA WALK-IN COLDROOM 'CRAFT BEER' CANOPY & SIGN HOLDER	1	MW SS
B258 B259	RESERVED METAL PLINTH (16" DEEP)		GC		B700 SPECIALTY/PROTOTYPE/ATYPICAL		
B260	RESERVED				3-IN-1 SIT STAND STOOL	1	GC
B261 B261b	METAL GONDOLA PROMO END METAL GONDOLA PROMO END (NARROW)	2			RESERVED 'CELEBRATION' FIXTURE W/ LED ILLUMINATION	_	GC/SS
B262	DOUBLE-SIDED GIFT/SPIRITS FIXTURE W/ METAL SHELVES (ILLUMINATED) (7'-10" H.)	1	GC/SS	B722a	'CELEBRATION' FIXTURE (NON-ILLUMINATED)		SS
	MILLWORK ENCLOSURES AROUND BASE-BLDG COLUMNS AT GONDOLAS RESERVED	_	MW	B765	RESERVED STAFF ROOM DVD SHELF		MW
B267 B268	PERIMETER COLUMN FEATURE (HALF) 1-MODULE GENERAL LIST PERIMETER LOCKABLE DISPLAY (7'-6" H.)		MW MW		'PICK-UP' LOW LOCKABLE STORAGE B800 OFFICE/SERVICES	1	MW
B269	2-MODULE GENERAL LIST PERIMETER LOCKABLE DISPLAY (7'-6" H.)		MW		OFFICE GLAZING		.MW/GC
	3-MODULE GENERAL LIST PERIMETER LOCKABLE DISPLAY (7'-6" H.) 3-HIGH 48" PERIMETER METAL SHELVING UNIT W/ WOOD TICKET MOULDING		MW SS	B802 B803	TYPICAL OFFICE & WAINSCOTING DETAIL MANAGER'S OFFICE MILLWORK	AS REQ'D. AS REQ'D.	
B272	3-HIGH 36" PERIMETER METAL SHELVING UNIT W/ WOOD TICKET MOULDING	_	SS	B804	STAFF LUNCH ROOM MILLWORK W/ EYE WASH STATION	AS REQ'D.	. MW
B273 B274-B275	3-HIGH 24" PERIMETER METAL SHELVING UNIT W/ WOOD TICKET MOULDING RESERVED	_	SS	B805 B806	WASHROOM STORAGE CABINET JANITOR'S ROOM SHELVING UNIT	1 2	MW GC
B276	1-MODULE GENERAL LIST PERIMETER LOCKABLE DISPLAY (7'-10" H.)	_		B807-B811	RESERVED		
B277 B278	2-MODULE GENERAL LIST PERIMETER LOCKABLE DISPLAY (7'-10" H.) 3-MODULE GENERAL LIST PERIMETER LOCKABLE DISPLAY (7'-10" H.)	1	MW	B812	OFFICE DOOR W/ GLASS INSERT S100B SIGNAGE/GRAPHICS		MW/GC
B279 B280	METAL GONDOLA END (NARROW) — GENERAL LIST 3—HIGH 4'—O" METAL FLOOR GONDOLA (NARROW) — GENERAL LIST	16	SS SS		RESERVED SUSPENDED PLEXI-GLASS 'SERVICE' SIGN		SV
B281	3-HIGH 3'-0" METAL FLOOR GONDOLA (NARROW) - GENERAL LIST		SS	STOOD			J V
B282 B283	3-HIGH 2'-0" CONVERTIBLE FLOOR GONDOLA (NARROW) - GENERAL LIST 4-HIGH 4'-0" METAL FLOOR GONDOLA (NARROW) - GENERAL LIST	_ 32	SS SS	R101R-R103R	R100B REFRIGERATION RESERVED		
B284	4-HIGH 3'-0" METAL FLOOR GONDOLA (NARROW) - GENERAL LIST	38	SS	R104B	PERIMETER WINE REFRIGERATION C/W CONTINUOUS PLAM. FASCIA PANEL & COOLER DOORS (GENERAL PURCHASE AREA)	<u> </u>	GC/MW
B285 B286	4-HIGH 2'-0" CONVERTIBLE FLOOR GONDOLA (NARROW) - GENERAL LIST DOUBLE-SIDED GIFTS/SPIRITS FIXTURE W/ FRONT & BACK CANOPY ILLUMINATION	14	SS GC/SS	R105B R106B	PERIMETER WINE REFRIGERATION C/W CONTINUOUS METAL FASCIA PANEL & COOLER DOORS (WITHIN BEER ALCOVE) PERIMETER BEER REFRIGERATION C/W CONTINUOUS METAL FASCIA PANEL & COOLER DOORS		GC GC
B287	DOUBLE-SIDED GIFTS/SPIRITS FIXTURE W/ FRONT CANOPY ILLUMINATION	_	GC/SS				
				NOTE: F	REFER TO CONTEMPORARY DETAILS		

Millwork Itemization Legend 1 N.T.S. (A1.05)



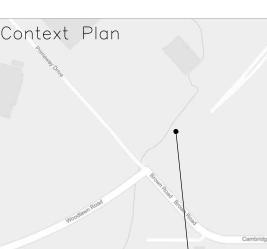
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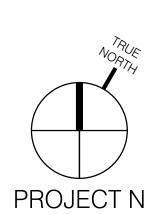
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4 2020-07-31 Issued for Building Permit LG
3 2020-07-16 Issued for 90% Design Review LG
3 2020-07-07 Issued for 60% Design Review LG
2 2020-06-19 Issued for BB Coordination LG
1 2020-06-18 Issued for 30% Design Review LG

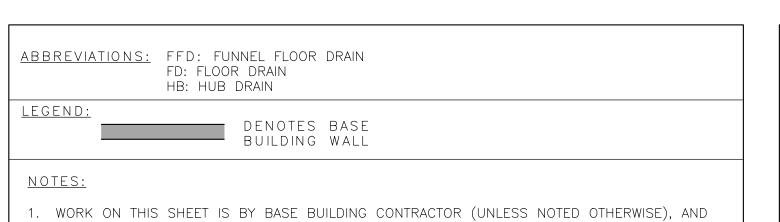
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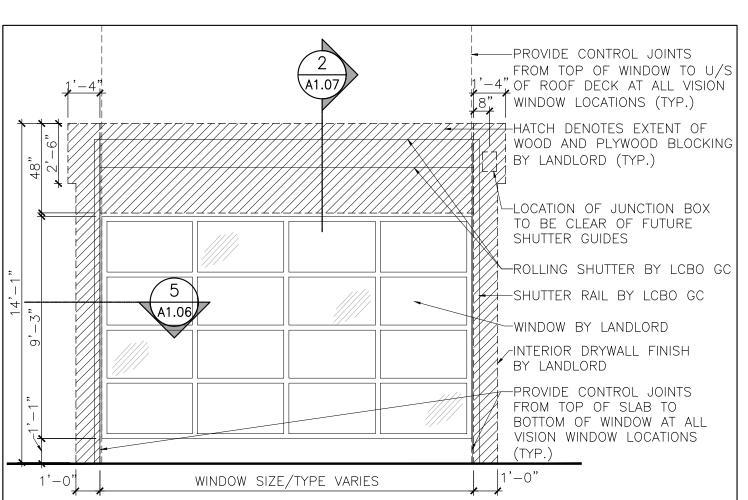
Fixture and Millwork Itemization Legend

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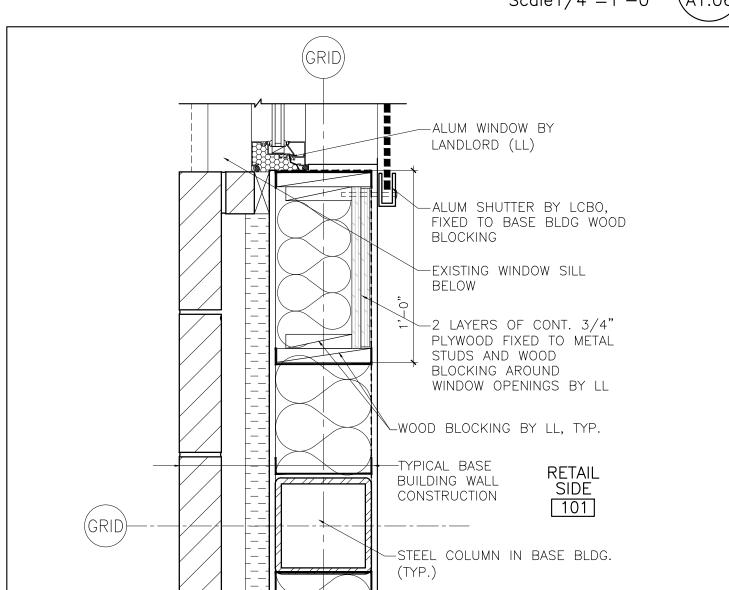
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- IS FOR REFERENCE OF THE FIT-OUT GC.
- 2. WALKER DUCT ROUTE OUTLINE ON THIS DRAWING IS DIAGRAMMATIC. THE LANDLORD G.C SHALL CONFIRM SITE CONDITIONS PRIOR TO INSTALLATION.
- 3. LOCATIONS OF ALL IN-FLOOR SERVICES MUST BE SITE VERIFIED BY THE LCBO PRIOR TO POURING THE FLOOR SLAB.
- 4. ALL VOIDS TO BE FILLED BY LCBO G.C
- 5. ALL PIPES SHOWN IN WALLS TO BE CENTERED ON WALL.
- 6. GC TO PROVIDE DRAWING(S) LOCATING ANY ADDITIONAL CORING REQUIRED AND OBTAIN APPROVAL FROM LANDLORD BEFORE CARRYING OUT ANY ADDITIONAL CORING WORK.
- 7. GC TO SEAL AROUND PIPES & CONDUITS PENETRATIONS.
- 8. PROVIDE 3/4" THICK, 36" HIGH PLYWOOD BLOCKING AT 9'-10" A.F.F IN PERIMETER BASE BUILDING WALLS TO SUPPORT FUTURE LCBO LED SIGN BOXES.
- 9. ALL FLOOR DRAINS AND CLEANOUTS IN WASHROOMS OR OTHER TILED AREAS TO BE RAISED 1/2" ABOVE SLAB TO COORDINATE WITH FLOOR TILE INSTALL AND HAVE SQUARE SHAVED COVERS (WASHROOM, STAFF ROOM, RETAIL). SET DRAIN/CLEANOUT TO MID-POINT OF THREADED ADJUSTMENT RANGE TO ALLOW FOR FINE ADJUSTMENT BY FIT-UP TRADE.
- 10. LANDLORD TO PROVIDE HORIZONTAL AND VERTICAL CONTROL JOINTS ON ALL PERIMETER WALLS WHERE A WALL OR PARTITION RUNS IN AN UNINTERRUPTED STRAIGHT PLANE EXCEEDING 30 LINEAR FEET. VERTICAL JOINTS TO BE BEHIND SECURITY SHUTTER GUIDES AND HORIZONTAL CONTROL JOINTS AT 6" BELOW OWSJ.
- 11. 3/4" CONDUIT FOR FUTURE LCBO MOTORIZED SECURITY SHUTTER AND ME MOUNT JUNCTION BOX 24" FROM EDGE OF DRYWALL WINDOW OPENING. SEAL ALL AÍR BARRIER PENETRATIONS, NO BEND IN CONDUIT LESS THAN 135°. PROVIDE
- 12. PROVIDE 18"X18" BOX—OUT AND ROUGH—INS FOR TENANT WASHROOM WATER CLOSET & SINKS & STAFF ROOM SINK. PROVIDE ROUGH-IN FOR TENANT WASHROOM LAVATORY AND STAFF ROOM SINK. LOCATE SINK DRAIN PIPERS CENTERED TO SINKS & TIGHT TO WALL. TYP.
- 13. ALL IN-FLOOR VENT STACKS SHALL BE TIGHT TO BASE BUILDING WALL FOR CONCEALMENT WITHIN FIT-UP PARTITIONS. EXACT LOCATION TO BE COORDINATED W/ LCBO

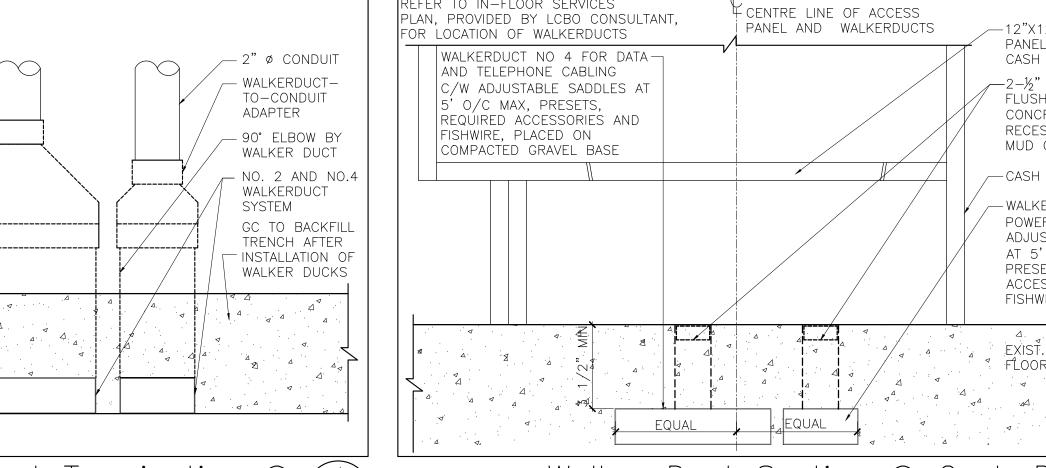


Elevation: Rolling Shutter Scale1/4"=1'-0"

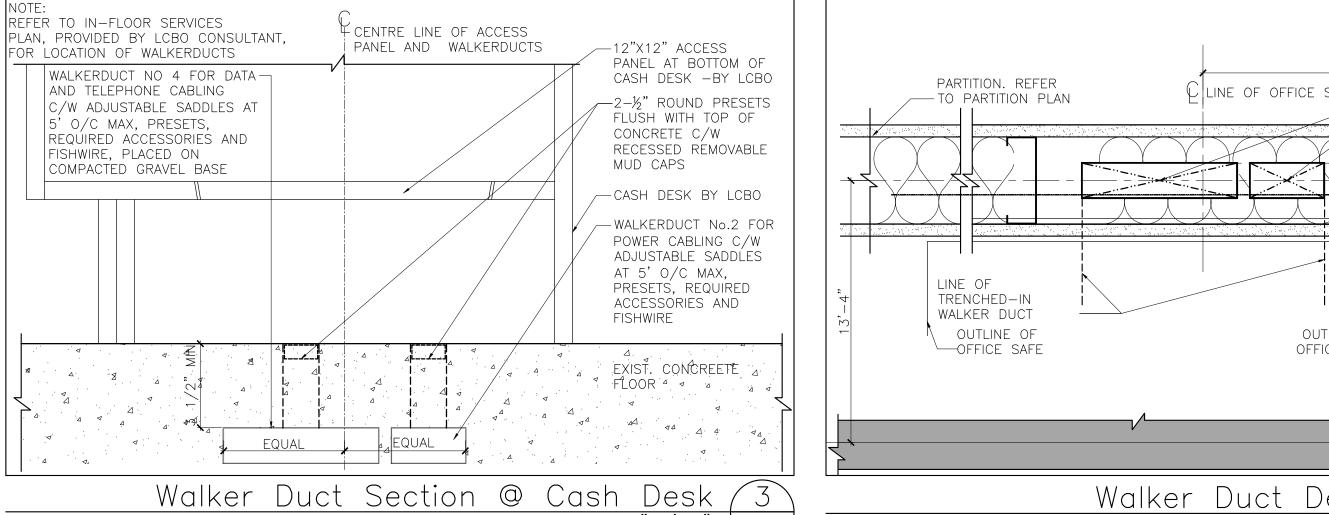


Plan Detail: Rolling Shutter

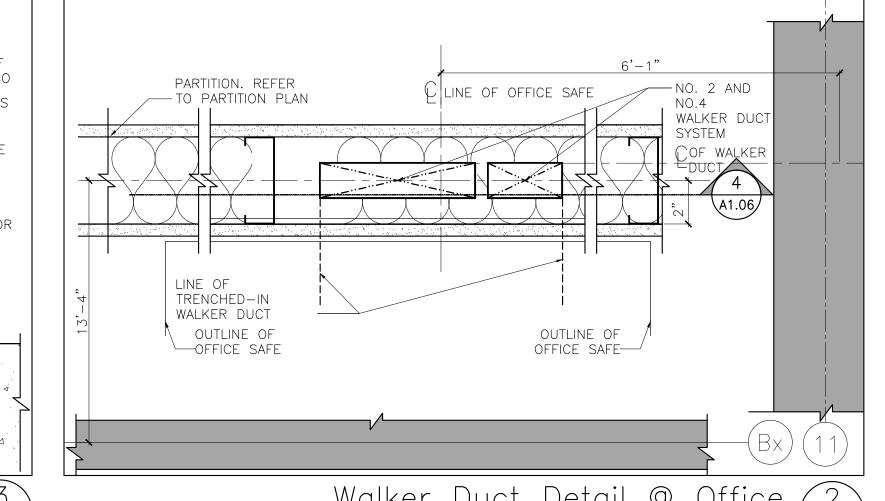
Scale: 1-1/2"=1'-0"



Walker Duct Termination @ Concrete Slab in Office



Scale: 3"=1'-0"\A1.06



Walker Duct Detail @ Office Scale: 3"=1'-0"

Context Plan

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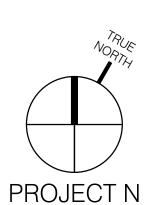
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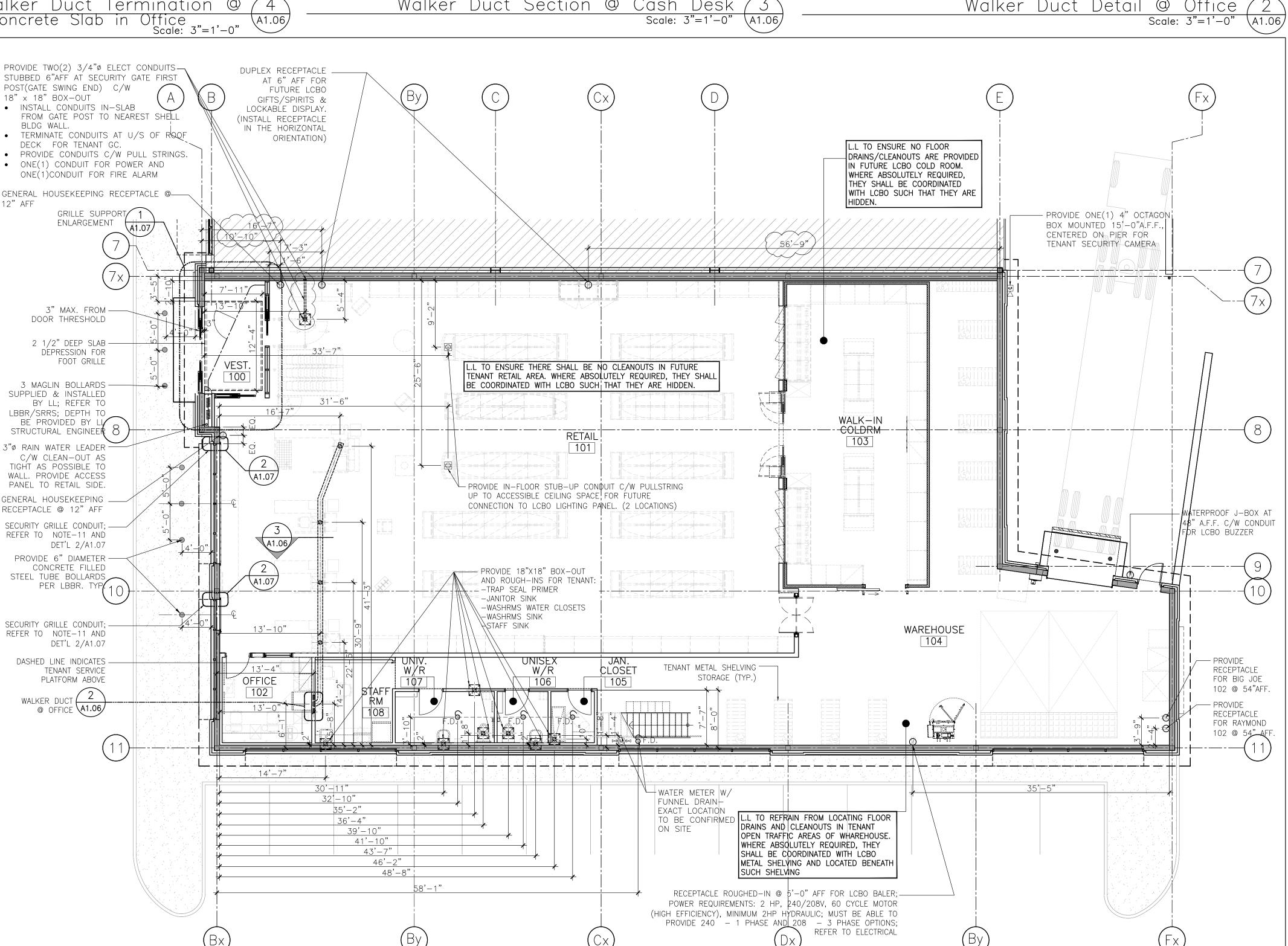
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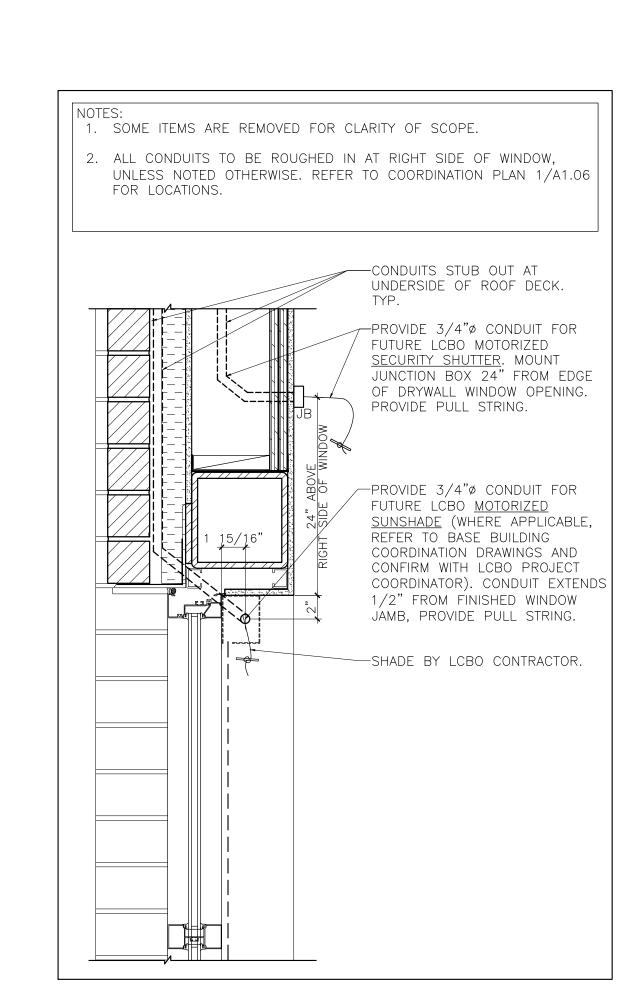
124852 1/8"=1'+50W VG

Project No.: Scale: Drawn by: Checked by

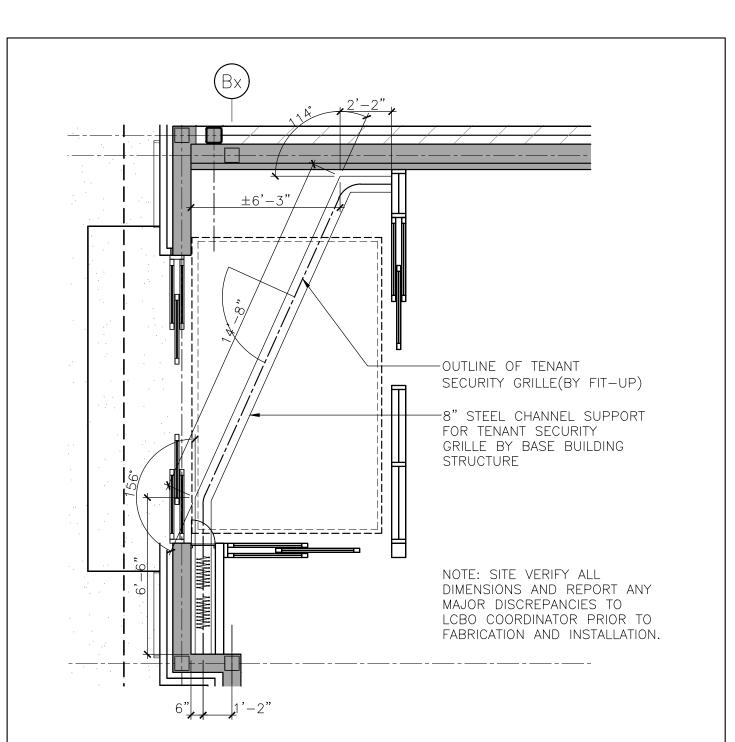
Base Building Services Coordination Plan



Coordination Plan Scale: 1/8"=1'-0" (A1.06)



Base Building Wall Penetration 2
Scale: 1 1/2"=1'-0" (A1.07)



Vestibule Plan: Security Grille Steel Channel Support

Scale: 1/4"=1'-0" A1.07

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B Context Plan

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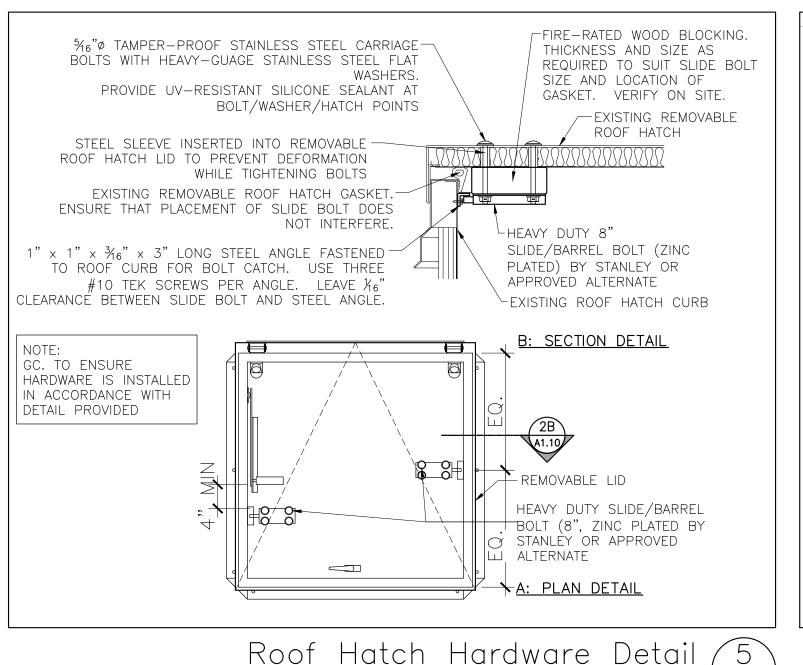
September 10, 2020 124852 As NotedSW VG

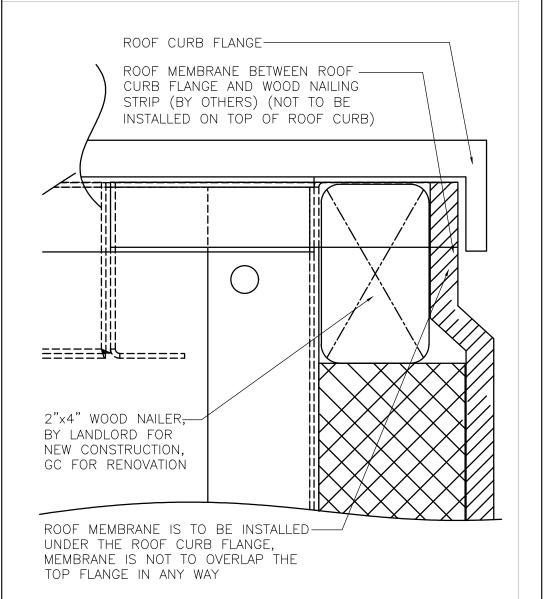
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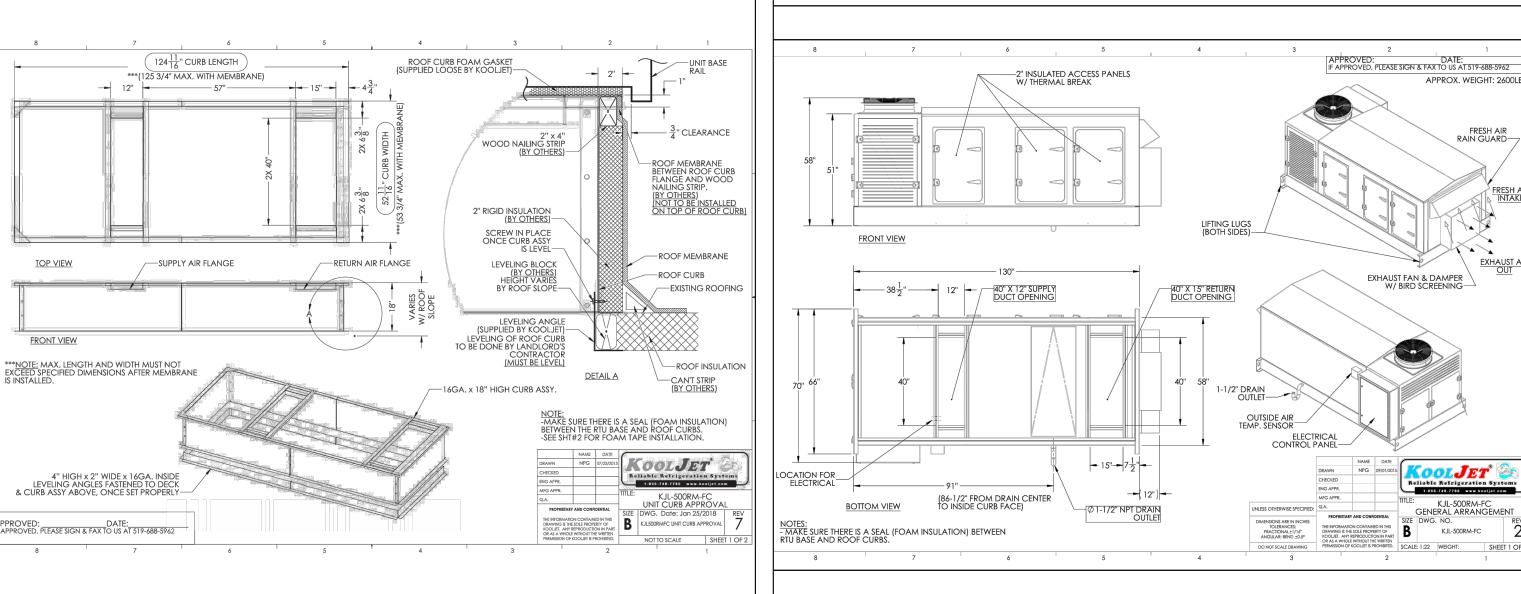
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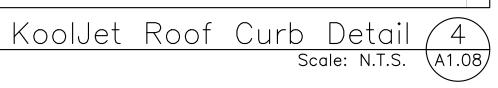
Base Building Services Coordination Detais

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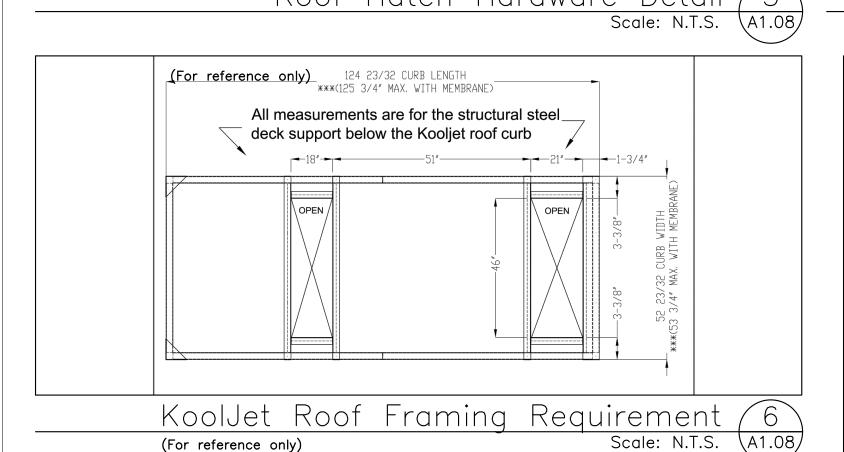






Unit Curb Assembly 3
Scale: 1/8"=1'-0" A1.08

Coldbox General Arrangement (2)
N.T.S (A1.08)



KOOLJET UNIT CURB INSTALLATION GUIDELINES:

INSTALLATION OF KOOLJET CURB AS FOLLOWS:

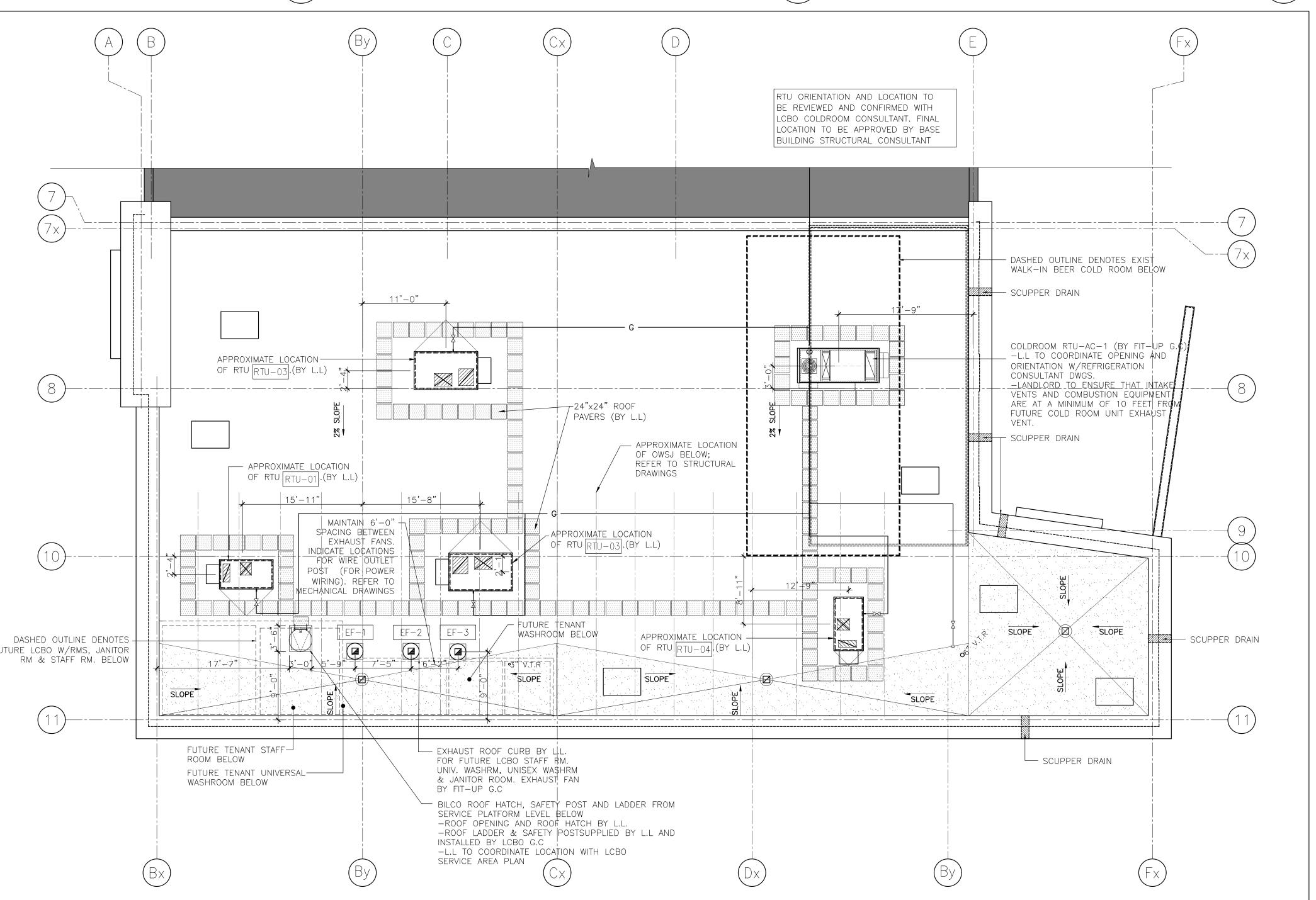
- ONLY KOOLJET MANUFACTURED CURBS CAN BE USED FOR BCR KOOLJET UNIT INSTALLATIONS.
- PLACE CURB OVER THE STRUCTURAL STEEL AND FASTEN BOTTOM FLANGE TO ROOF DECK WITH SHEET METAL SCREWS ENSURING THE CURB IS SQUARE.
- FIND THE HIGHEST POINT AND SCREW TOP HALF OF CURB. USING A LEVEL BRING THE OPPOSITE SIDE OF CURB TO A LEVEL POSITION & REPEAT FOR ALL THE OTHER CORNERS.
- UNIT SHALL BE SQUARE AND ALL LEVEL AT THIS POINT.
- INSTALL 2X4 WOOD NAILING STRIPS ALONG THE TOP EDGE OF THE CURB AND FASTEN FROM THE INSIDE WITH 1 ½' SCREWS FOR ALL 4 SIDES.
- INFILL ANY GAPS AROUND THE BOTTOM OF CURB BETWEEN FLANGES WITH LEVELING BLOCKS (WOOD).
- INSTALL 2" RIDGED INSULATION ALL AROUND THE CURB OVERLAPPING ON CORNERS. (BASE BUILDING GC TO PROVIDE PICTURES OF FINISHED INSULATION ON KOOLJET ROOF CURB PRIOR TO INSTALLATION OF ROOF MEMBRANE)
- INSTALL CANT STRIP ALL AROUND THE CURB AT ROOF LINE
- INSTALL NEW ROOF MEMBRANE IN BETWEEN THE 1' FLANGE AND NAILING STRIP ALL AROUND UNIT CURB ENSURING THE MEMBRANE DOES NOT GO OVER TOP OF THE CURB ITSELF.
- CAULK ALL CORNERS AND SEAMS AROUND THE ROOF CURB.
- INSTALLATION OF CURB IS NOW COMPLETE.
- COMPLETED BASE BUILDING KOOLJET ROOF CURB INSTALLATION TO BE INSPECTION BY COLD ROOM
 CONSULTANT

NOTES:

- 1. ROOF PLAN PROVIDED FOR REFERENCE ONLY.
- 2. LCBO GC TO PROVIDE AND INSTALL COLD ROOM ROOF TOP EQUIPMENT, AND OTHER M&E ITEMS AS REQUIRED. (REFER TO M&E DRAWINGS AND WALK-IN COOLER DRAWINGS).
- 3. LANDLORD TO SITE VERIFY THAT INTAKE VENTS ARE AT A MINIMUM OF 10 FEET FROM COMBUSTION EQUIPMENT AND BUILDING EXHAUST VENTS.
- 4. LANDLORD TO PROVIDE WEATHER SEALED CHASE OPENINGS THROUGH ROOF FOR CONDENSER LINES. LOCATIONS TO BE DETERMINED BY LCBO.
- 5. TENANT REFRIGERATION UNITS WEIGH +/- 2600LBS EACH. (KOOLJET ROOFT TOP UNITS MODEL #: KJL-500RM-FC; UNIT CURB #; KJL-500RM-FC). EXACT LOCATIONS SHALL BE COORDINATED WITH STRUCTURAL FRAMING LOCATIONS BY LANDLORD.
- 6. ALL BURGLAR BARS IN COLDROOM EQUIPMENT BY G.C (REFER TO ELECT AND MECH. DWGS).
- 6. ALL ROOFING WORK TO BE CARRIED OUT ONLY BY AUTHORIZED ROOFING CONTRACTOR.
- 7. KOOLJET UNIT CURB ASSEMBLY "UNIT CURB #; KJL-500RM-FC" SUPPLIED AND INSTALLED BY LL. GC.
- 8. COORDINATE FINAL LOCATIONS OF RTUS, ROOF HATCH, CONDENSORS, PAVERS AND ALL ASSOCIATED FLASHING, CURBS AS PER LCBO COORDINATOR.

FUTURE INTERIOR-FIT UP PARTITIONS TO AVOID FUTURE INTERFERENCE.

- 9. CONFIRM LOCATION OF ROOF ACCESS HATCH WITH LCBO. COORDINATE WITH LL. STRUCTURAL CONSULTANT.
- 10. LANDLORD TO ENSURE NO MECHANICAL, ELECTRICAL, OR OTHER ITEMS ARE LOCATED ABOVE THE



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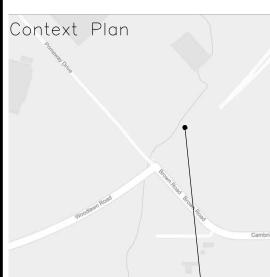
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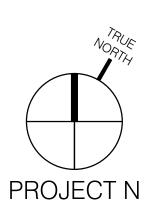
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 Issued for Building Permit
 LG

 3
 2020-07-16
 Issued for 90% Design Review LG

 3
 2020-07-07
 Issued for 60% Design Review LG

 2
 2020-06-19
 Issued for BB Coordination
 LG

 1
 2020-06-18
 Issued for 30% Design Review LG

Description:

nder

Rev.: Date:

| September 10, 2020 | | Ssue Date: | 1/8"=1' | SOW | VG

LCBO Store No. 312 Interior Fit—Up Welland, Ontario

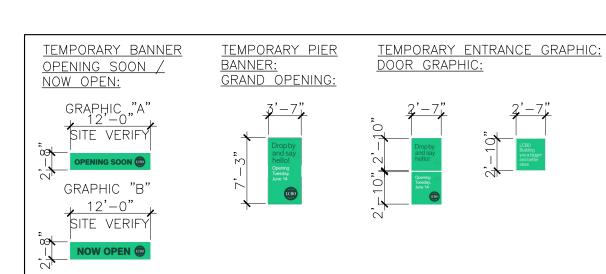
Project No.: Scale: Drawn by: Checked by:

Base Building Services Roof Plan and Details

Drawing Title:

Roof Plan

Scale: 1/8"=1'-0" A1.08



TEMPORAY BANNERS AND DOOR GRAPHICS NOTES:

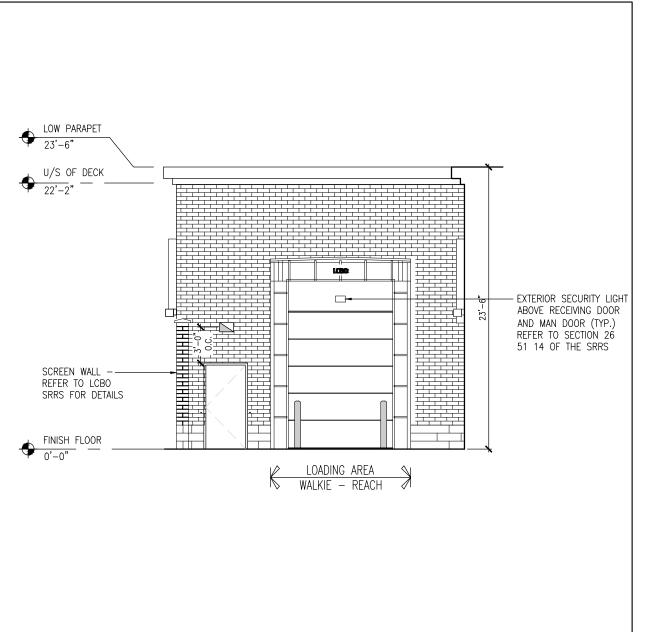
- ALL EXTERIOR GRAPHICS TO BE SUPPLIED BY LCBO AND INSTALLED BY LCBO SIGN CONTRACTOR.
- SIGNAGE CONTRACTOR TO REVIEW AND CONFIRM ZONING BYLAWS FOR TEMPORARY SIGNS WITH THE MUNICIPALITY.
- SIGN CONTRACTOR TO APPLY AND PAY FOR ALL REQUIRED PERMITS.
- SIGN CONTRACTOR SHALL SUPPLY AND INSTALL "OPENING SOON" BANNER AS SOON AS POSSIBLE.
- PROVIDE AND ERECT SIGNS ONE WEEK PRIOR TO COMMENCING WORK ON
- ON THE MORNING OF THE STORE OPENING (CONFIRM DATE WITH PROJECT) COORDINATOR), SIGN CONTRACTOR TO RETURN TO SITE TO TURN BANNER TO THE "NOW OPEN" SIDE BEFORE 8:00AM.
- SIGN CONTRACTOR TO RETURN 30 DAYS AFTER OPENING TO REMOVE BANNER AND TURN OVER TO STORE MANAGER.
- SIGN CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR LCBO REVIEW AND APPROVAL.
- PROVIDE 2 BANNERS OF EACH SIGN TYPE
- SIGNAGE CONTRACTOR TO CONFIRM THAT EXTERIOR BANNERS PROVIDED BY LCBO ARE APPROVED BY THE CITY/MUNICIPALITY.
- TEMPORARY BANNER SIGNS TO BE ATTACHED AT BRICK MORTAR JOINTS
- DATE OF STORE GRAND OPENING VARIES DEPENDING ON STORE.
- AVOID SEAMING WHERE POSSIBLE. REFER TO SPEC.
- PROVIDE GROMMETS AT HOLES FOR BANNER SIGNS. ALL FASTENINGS TO BE CONCEALED OR HAVE COLOUR MATCHED HEADS.
- DOUBLE SIDED BANNERS TO BE INSTALLED/FASTENED TO BRICK MASONRY MORTAR JOINTS. AVOID DRILLING FACADE MATERIAL.
- ALL HOLES IN MORTAL JOINTS TO BE FILLED UPON REMOVAL OF BANNER AND FINISH TO MATCH EXIST. FINISH.
- ROPE/BUNGEE CORDS TO BE USED AS REQUIRED TO REACH NEAREST MORTAR JOINTS WHERE GROMMETS DO NOT LINE UP WITH MORTAR JOINTS FOR BANNER SIGNS.
- VINYL FILM SIGNS TO BE APPLIED TO EXTERIOR FACE OF GLAZING.
- ENSURE VINYL FILM IS MANUFACTURED FOR TEMPORARY INSTALLATION ONLY.
- COORDINATE DESIGN AND REQUIRED PRINTS WITH MANUFACTURER.

<u>GENERAL NOTES:</u>

- SIGNAGE MANUFACTURER TO CONFIRM ALL FONTS, ARTWORK, MATERIALS, FINISHES AND CONSTRUCTION OF AWNINGS AND CHANNEL LETTERS WITH LCBO CONSTRUCTION COORDINATOR PRIOR TO FABRICATION OF THE ABOVE ITEMS. SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL FOR ALL OF THE ABOVE ITEMS PRIOR TO FABRICATION.
- LCBO 42" HIGH ILLUMINATED CHANNEL LETTERS: REFER TO SCHED. ITEM #69. SUPPLIED AND INSTALLED BY LCBO SIGNAGE CONTRACTOR.
- ILLUMINATED AWNING (TYP). SITE VERIFY HEIGHT AND WIDTH. REFER TO SPECIFICATIONS: SUPPLIED AND INSTALLED BY LCBO SIGNAGE CONTRACTOR. REFER TO GENERAL NOTES ON COVER
- . LCBO SIGNAGE CONTRACTOR SUPPLY AND INSTALL BILINGUAL "OPEN" AND "COLD BEER". SIGNS TO BE SUSPENDED FROM WINDOW SYSTEM. (REFER TO ELECT).
- EXTERIOR DISPLAY BANNERS AND HARDWARE SUPPLIED AND INSTALLED BY LCBO. G.C TO COORDINATE WITH LCBO WITH RESPECTIVE VENDOR.
- . 7'-0"H X 12'-0"W ILLUMINATED BOX SIGN (TYP). REFER TO SPECIFICATIONS: SUPPLIED AND INSTALLED BY LCBO SIGNAGE CONTRACTOR. REFER TO GENERAL NOTES ON COVER SHEET
- UV PROTECTIVE FILM APPLIED TO VISION GLASS WHERE SHOWN ON ELEVATIONS. SUPPLIED AND INSTALLED BY G.C. REFER TO SPEC.
- EXTERIOR DISPLAY BANNERS AND HARDWARE SUPPLIED AND INSTALLED BY LCBO. G.C TO COORDINATE WITH LCBO WITH RESPECTIVE VENDOR.

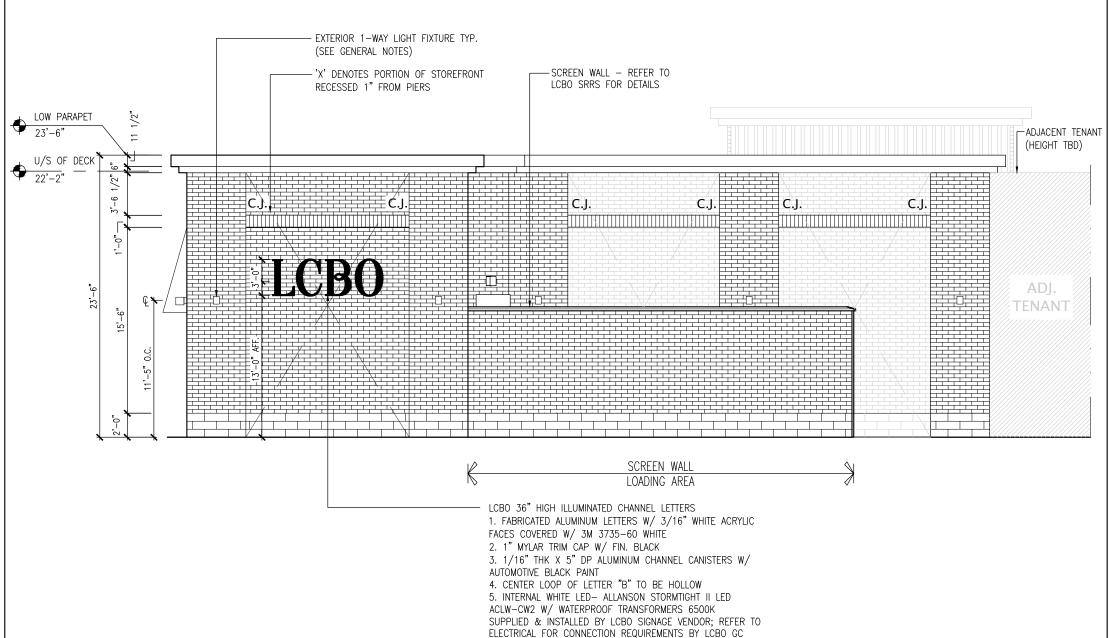
PERMANENT WINDOW GRAPHICS NOTES:

A. EXTERIOR WINDOW GRAPHICS: SUPPLIED AND INSTALLED BY LCBO SIGNAGE VENDOR.

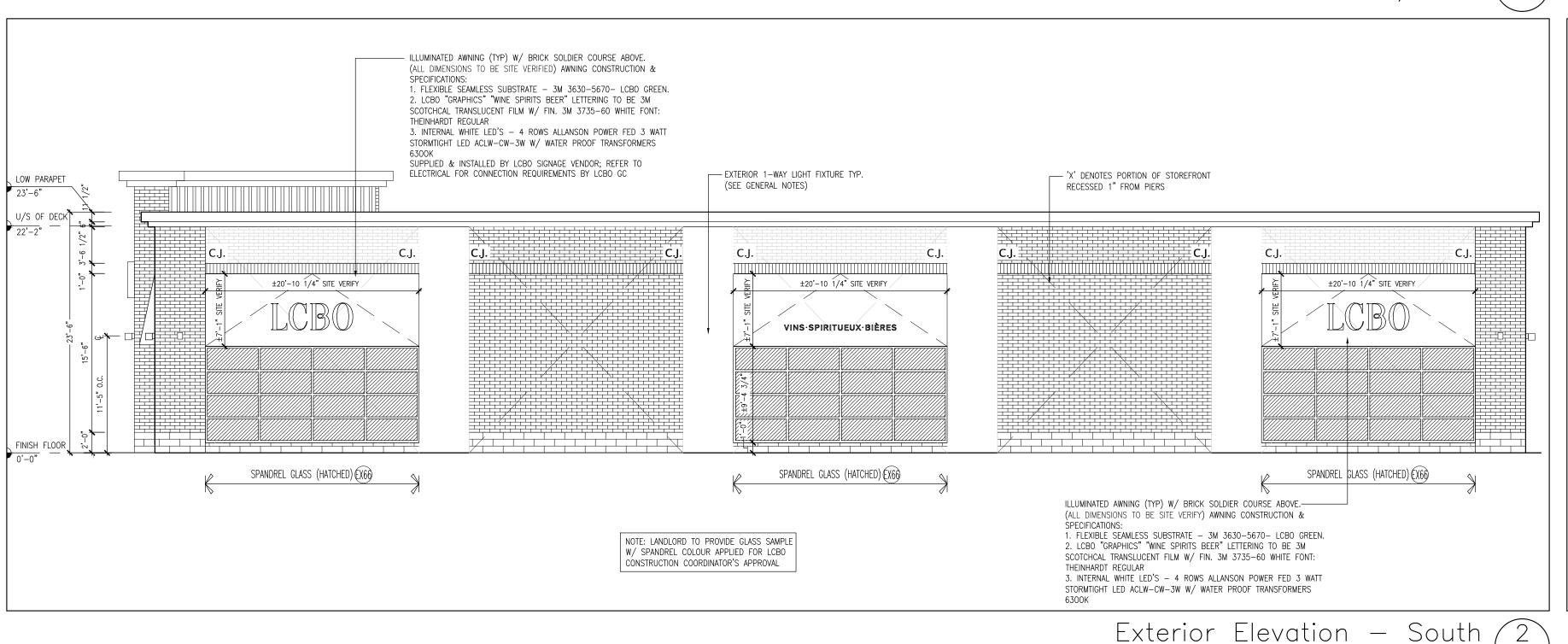


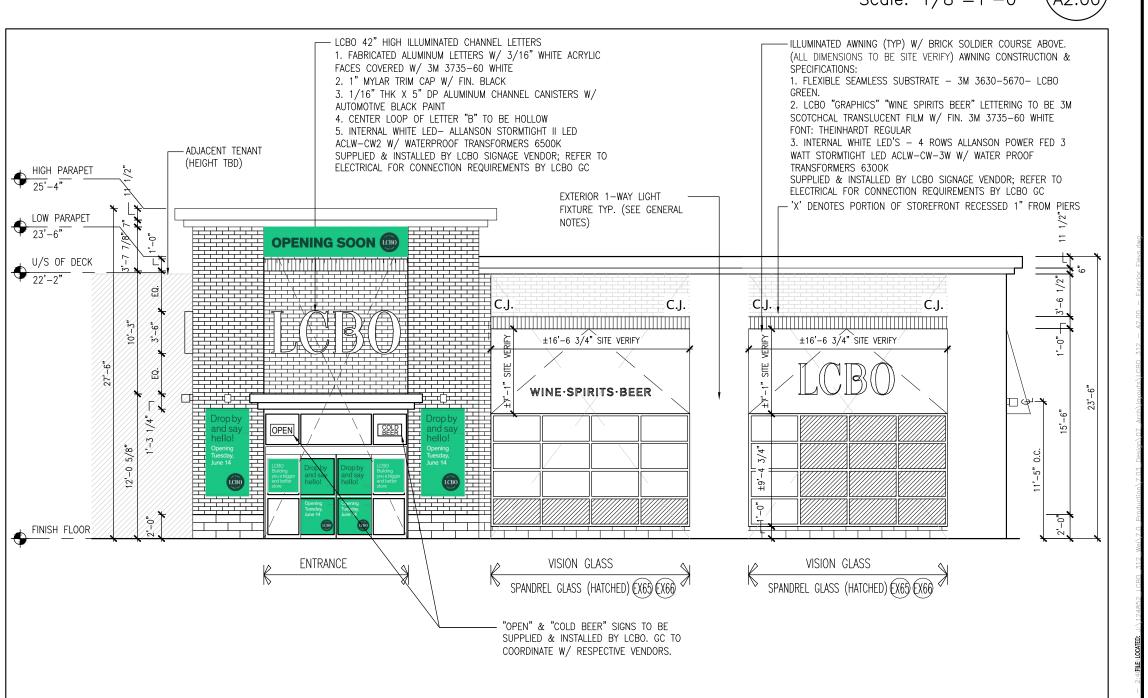
Exterior Elevation — North Scale: 1/8"=1'-0"

Scale: 1/8"=1'-0" A2.00/



Exterior Elevation — East Scale: 1/8"=1'-0" \A2.00





Exterior Elevation - West Scale: 1/8"=1'-0" A2.00 I B I

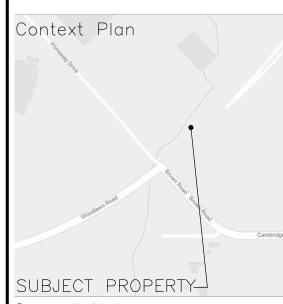
IBI GROUP 7th Floor - 55 St. Clair Avenue West

Toronto ON M4V 2Y7 Canada tel 416 596 1930 fax 416 596 0644 ibigroup.com

STORE #312 102 Primeway Drive BLDG. E3 WELLAND, ON

II BY IV Design Associates 77 Mowat Avenue, Suite 109 Toronto, Ontario M6K 3E3

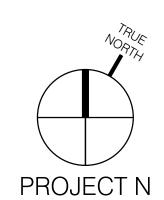
t.416 531 2224 w. www.iibyiv.com



General Notes:

ALL DIMENSIONS IN IMPERIAL. 2. VERIFY ALL DIMENSIONS. 3. DO NOT SCALE DRAWINGS. 1. CHECK DRAWINGS AGAINST SPECIFICATIONS 5. USE THE LATEST REVISED DRAWINGS ONLY 6. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SCHEDULES, DISCOVERED ERRORS, OR OMISSIONS, TO THE ARCHITECT AND LCBO DURING TENDER PERIOD AND BEFORE PROCEEDING WITH ANY WORK. 7. DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT, AND MUST BE RETURNED UPON COMPLETION OF

8. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT, PLEASE GO TO:BIDDINGO.COM/LCBO



5 2020-09-10 Issued for Tender 2020-07-31 Issued for Building Permit 2020-07-16 Issued for 90% Design Review LG

2020-06-18 Issued for 30% Design Review LG

September 10, 2020 124852 1/8" = 1'-0"

LCBO Store No. 312 Interior Fit-Up Welland, Ontario

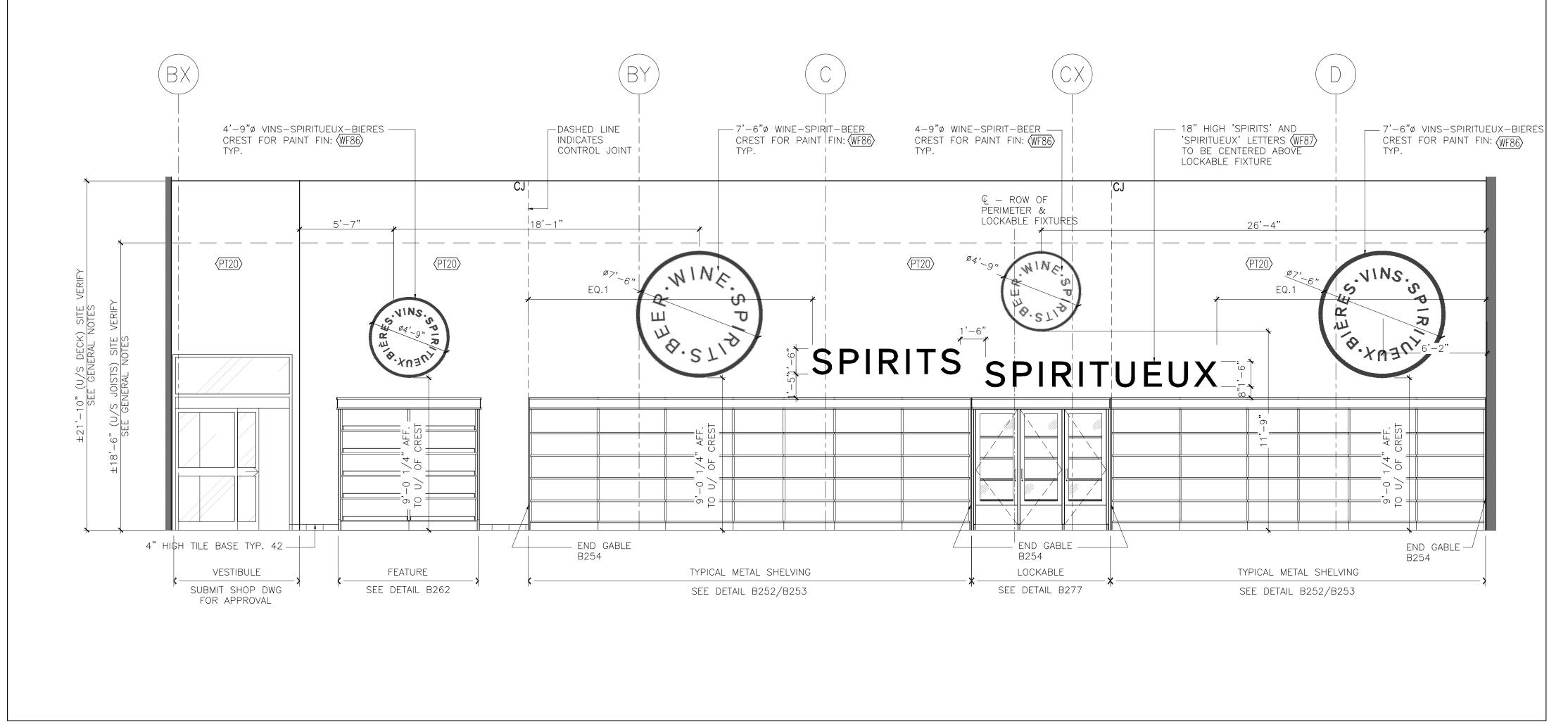
Exterior Elevations

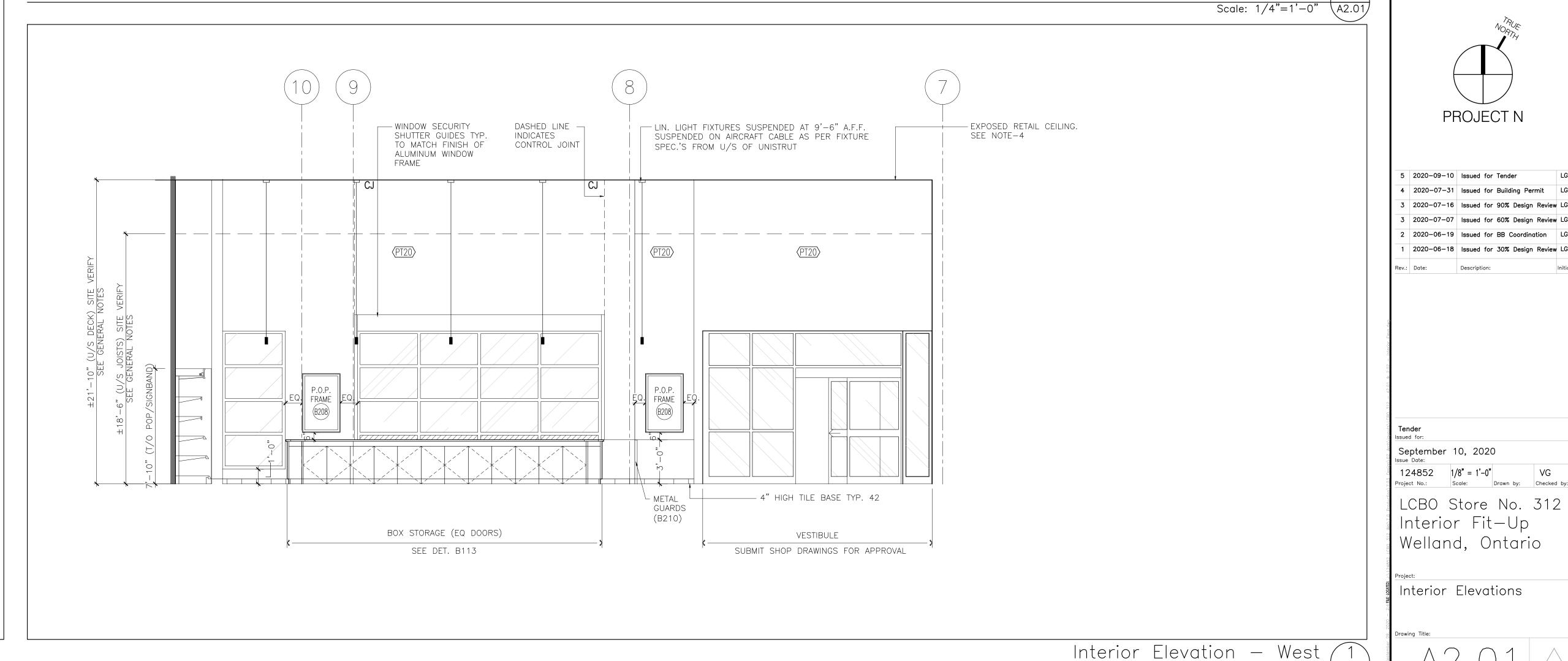
<u>LEGEND:</u>

DENOTES BASE BUILDING WORK

GENERAL NOTES:

- PIN-ON SIGNAGE SUPPLIED AND INSTALLED BY LCBO SIGNAGE CONTRACTOR. G.C. TO COORDINATE WITH RESPECTIVE VENDORS. ACTUAL CAPTION TO BE CONFIRMED WITH LCBO PRIOR TO INSTALLATION NOTE: ALL PIN-ON SIGNAGE TO ALIGN
- ALL SUSPENDED LINEAR LIGHT FIXTURES, TRACK LIGHTS, CUSTOMER SERVICE SIGNS, LET'S GET TOGETHER SIGNS (WHERE APPLICABLE) TO BE SECURED TO UNISTRUT. UNISTRUT TO BE SECURED TO UNDERSIDE OF TOP CHORD OF OWSJ (HEIGHT TO BE SITE VERIFIED). GO IS RESPONSIBLE FOR ANY UNISTRUT COMPONENTS REQUIRED TO SUSPEND LIGHT FIXTURES & SIGNS AS PER LAYOUT. REFER TO ARCHITECTURAL DRAWINGS. GC TO PAINT WITH FIN. NO. 14, THE CEILING (U/S OF ROOF DECK, ALL JOISTS, ALL MECHANICAL DUCTWORK, ALL PLUMBING & PIPÈS, ALL BASE BLDG. SERVICES, ALL UNISTRUT AND THREADED RODS.
- . REFER TO FINISHES SCHEDULE DWGS A4.00 & A4.01 FOR ALL MATERIAL SPECIFICATIONS.
- . ALL EXPOSED ELEMENTS (ROOF DECK, JOISTS, BEAMS, DUCTING, CONDUIT, PLUMBING, ETC.) TO BE PAINTED TO MATCH FIN. NO. 14 BY G.C.
- PROVIDE CONTROL JOINTS IN INTERIOR GWB PARTITIONS (RETAIL AND WAREHOSUE). THE DISTANCE BETWEEN CONTROL JOINTS IN WALLS SHALL NOT BE MORE THAN 30'-0". PROCIVE CONTROL JOINTS ON DEMISING WALLS BETWEEN WAREHOUSE AND RETAIL, THE CONTROL JOINS SHALL BE ON BOTH SIDES OF THE DEMISING WALL.
- G.C. TO VERIFY & COORDINATE LOCATION OF ALL DUCTS/HVAC UNITS AS PER MECHANICAL DRAWINGS IN CONJUNCTION WITH LAYOUT OF RCP.
- 8" HIGH MDF SIGN BAND ABOVE DAIRY DOORS TYP. ENSURE SIGN BAND ABOVE DAIRY DOORS ALIGNS WITH ADJACENT FIXTURES - CRITICAL (7'-10" HIGH).





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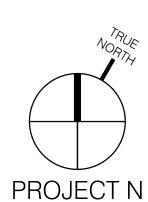
B

SUBJECT PROPERTY—

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5 2020-09-10 Issued for Tender 2 2020-06-19 Issued for BB Coordination LG

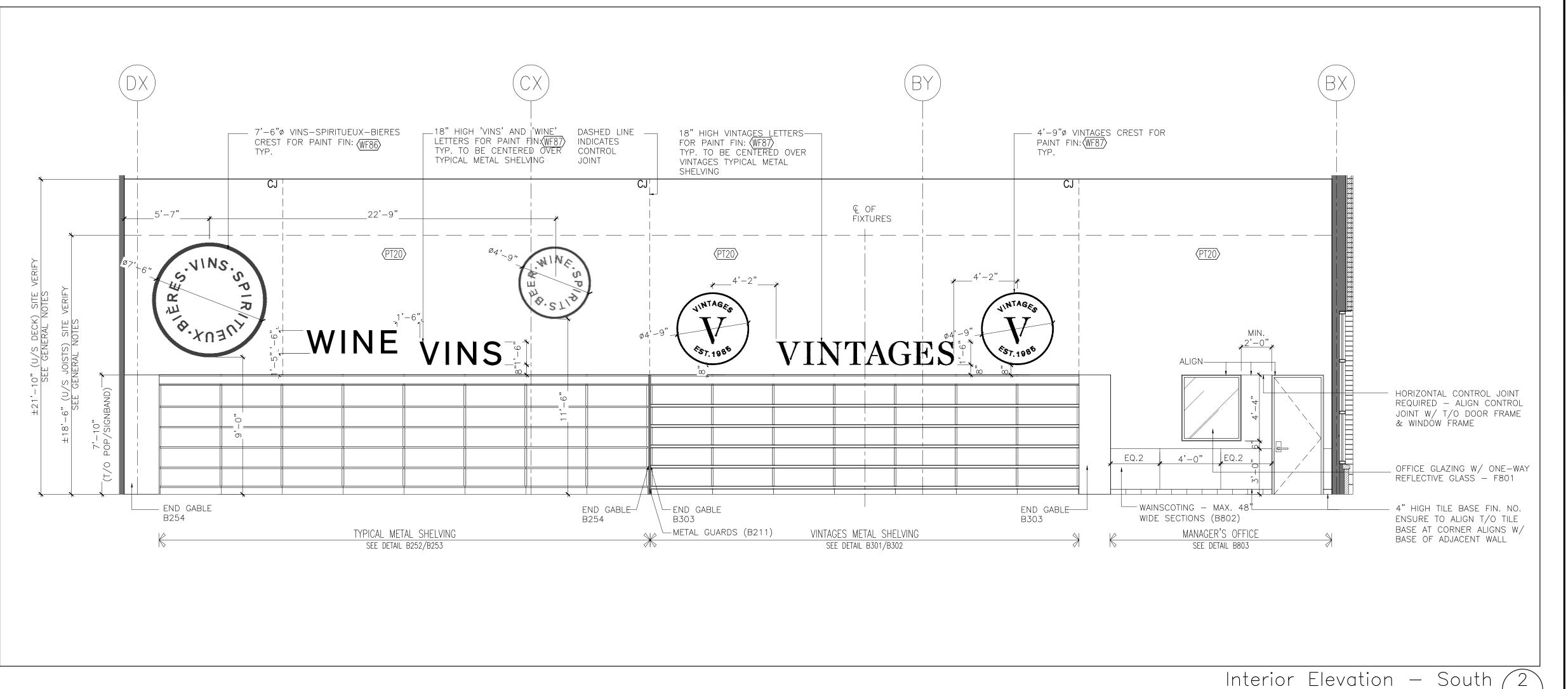
September 10, 2020 124852 1/8" = 1'-0" VG

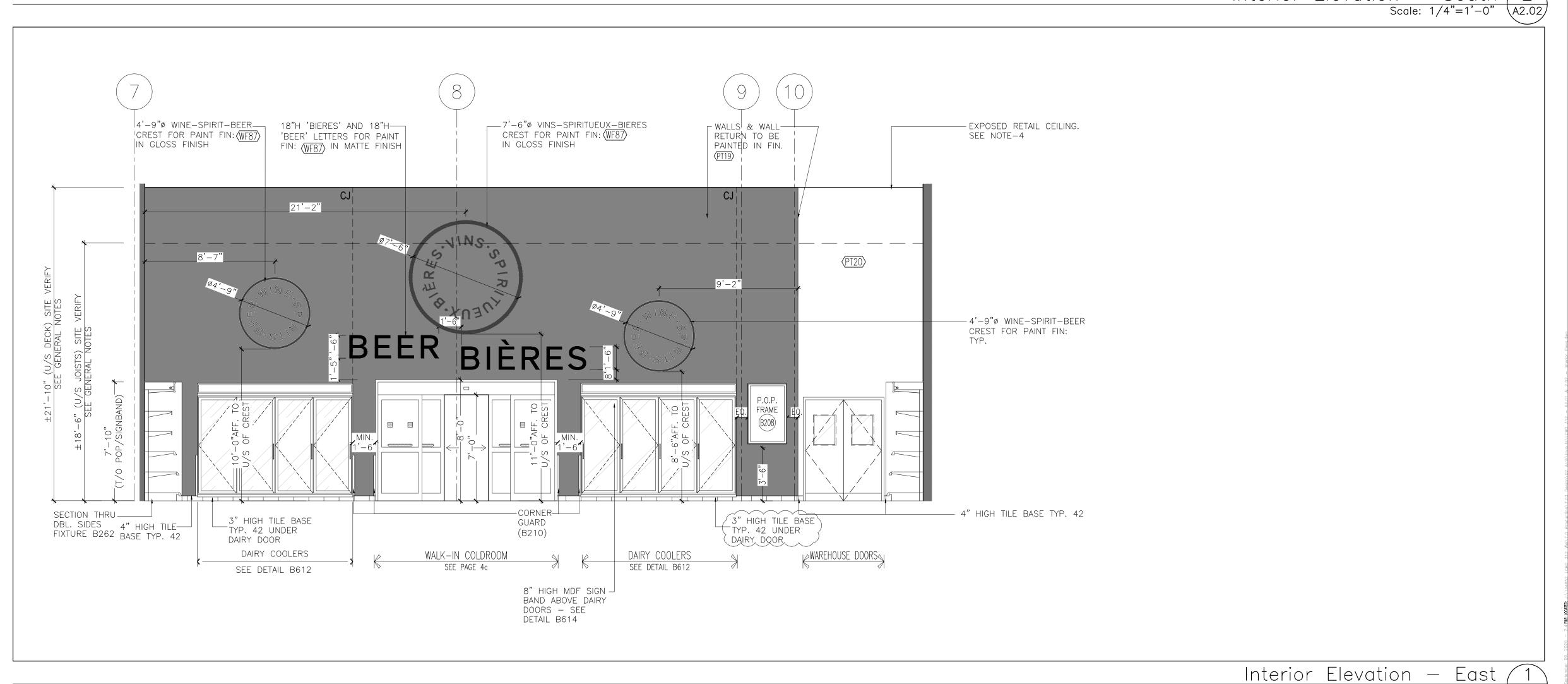
LCBO Store No. 312 Interior Fit-Up Welland, Ontario

Interior Elevations

Scale: 1/4"=1'-0"

Interior Elevation — North





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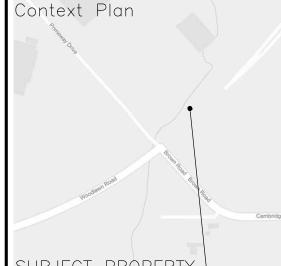
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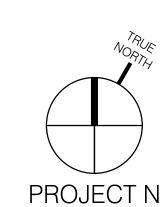


SUBJECT PROPERTY

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Tender
ssued for:

September 10, 2020
|ssue Date:
| 124852 | 1/8" = 1'-0"

LCBO Store No. 312 Interior Fit—Up Welland, Ontario

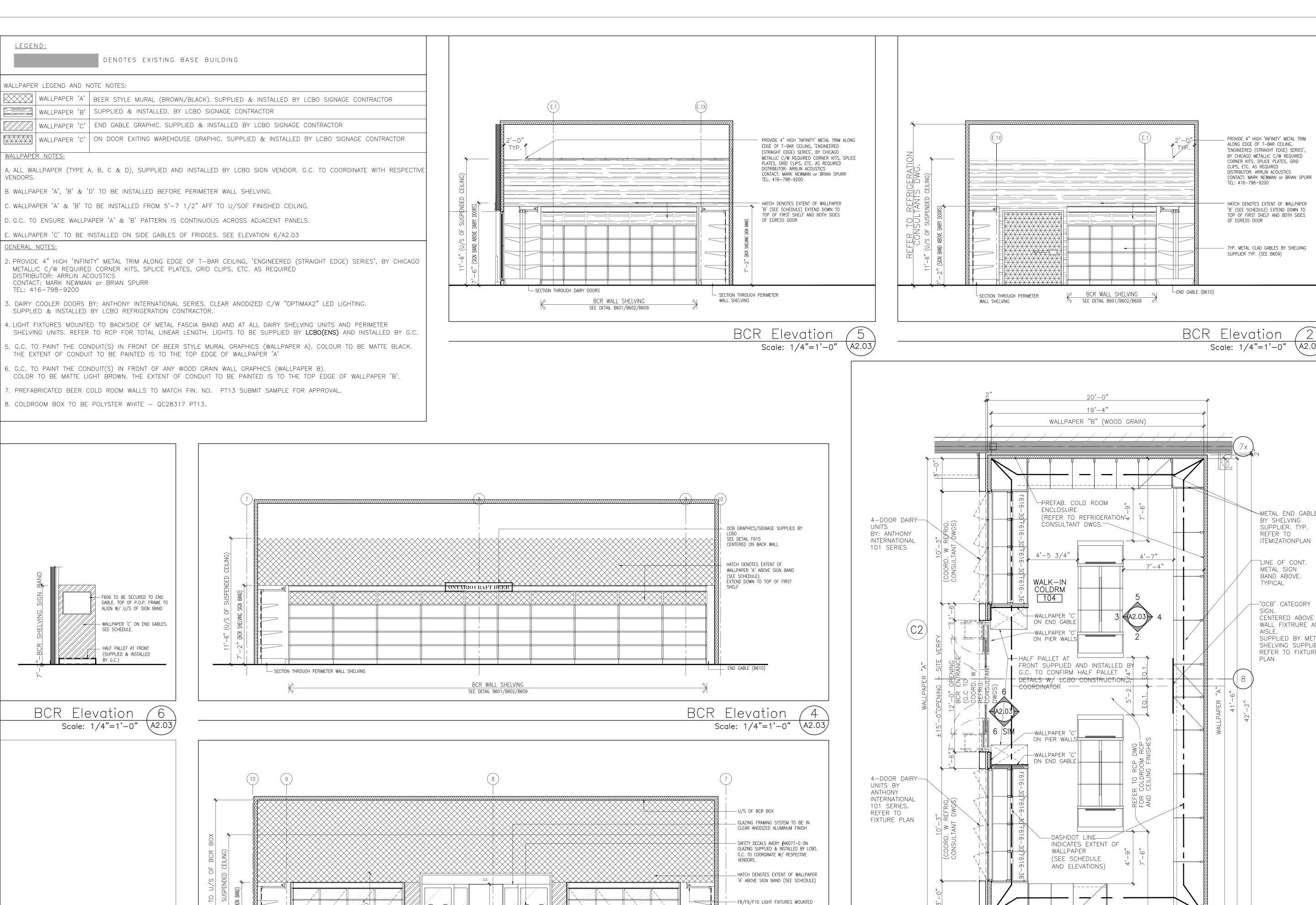
Project No.: Scale: Drawn by: Checked by:

Interior Elevations

Drawing Title:

Scale: 1/4"=1'-0" (A2.02)

A2.02



4" HIGH TILE BASE FL42

SECTION THROUGH —

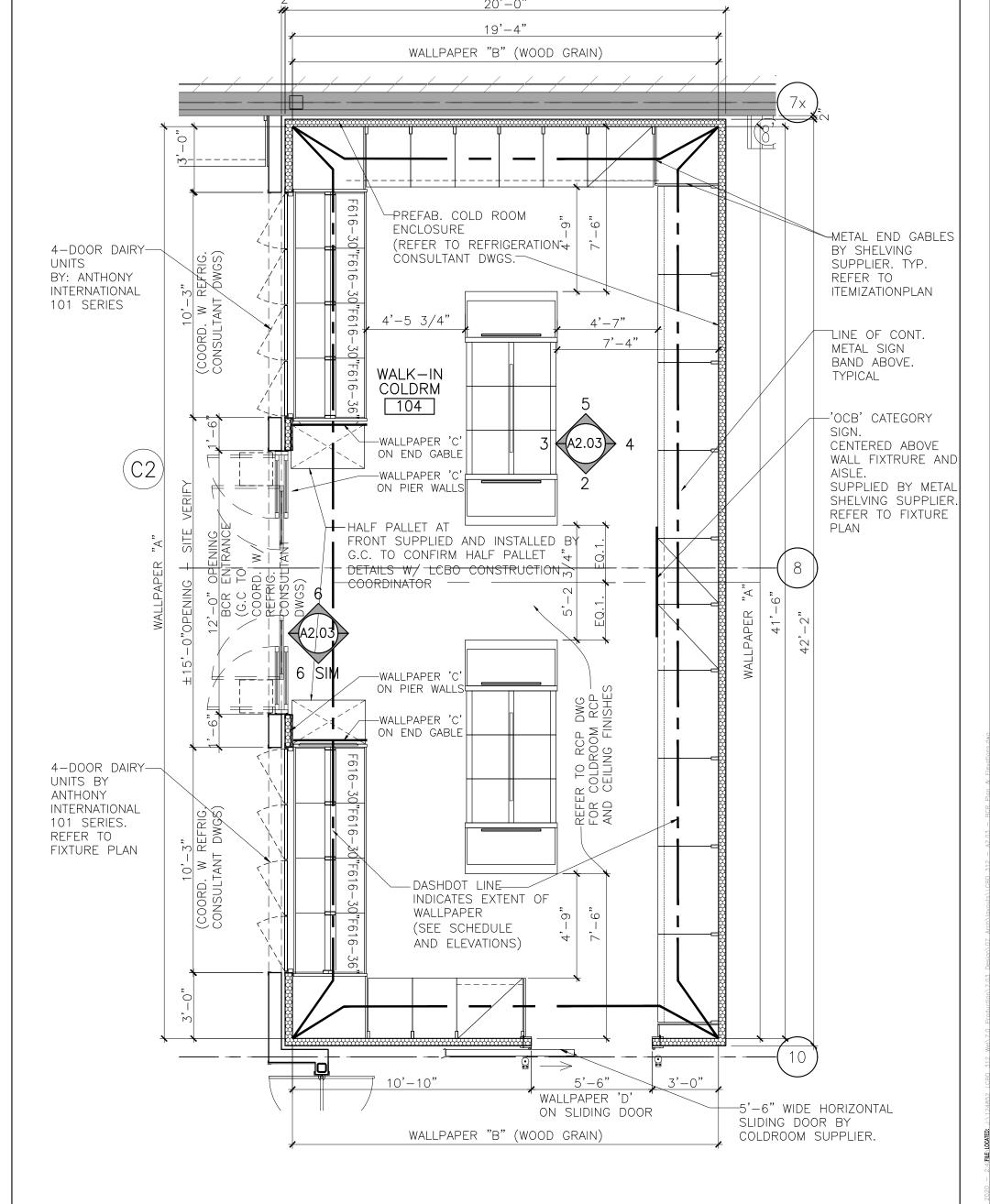
PERIMETER WALL SHELVING

HALF PALLET AT FRONT TO BE SUPPLIED + INSTALLED

BY G.C. G.C. TO CONFIRM HALF PALLET DETAILS W/

LCBO CONSTRUCTION COORDINATOR

4" HIGH TILE BASK FL42



I B I

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Context Plan

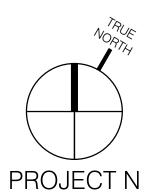
SUBJECT PROPERTY—

General Notes:

 $\A2.03$

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5 2020-09-10 Issued for Tender

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Rev.: Date:

September 10, 2020

Project No.: Scale: Drawn by: Checked by: LCBO Store No. 312 Interior Fit-Up

124852 1/4" = 1'-0" VG

Beer Cold Room: Plans & Elevations

Welland, Ontario

BCR Plan

Scale: 1/4"=1'-0" \A2.03

Scale: 1/4"=1'-0" \A2.03

TO BACKSIDE OF METAL FASCIA BAND. LIGHTS TO BE SUPPLIED AND

TYP. METAL CLAD GABLES BY SHELVING

GRAPHIC TYPE 'C' TO BE EXTENDED TO

INTERNATIONAL 101 SERIES (CLEAR

SUPPLIED AND INSTALLED BY LCBO

REFRIDGERATION CONTRACTOR

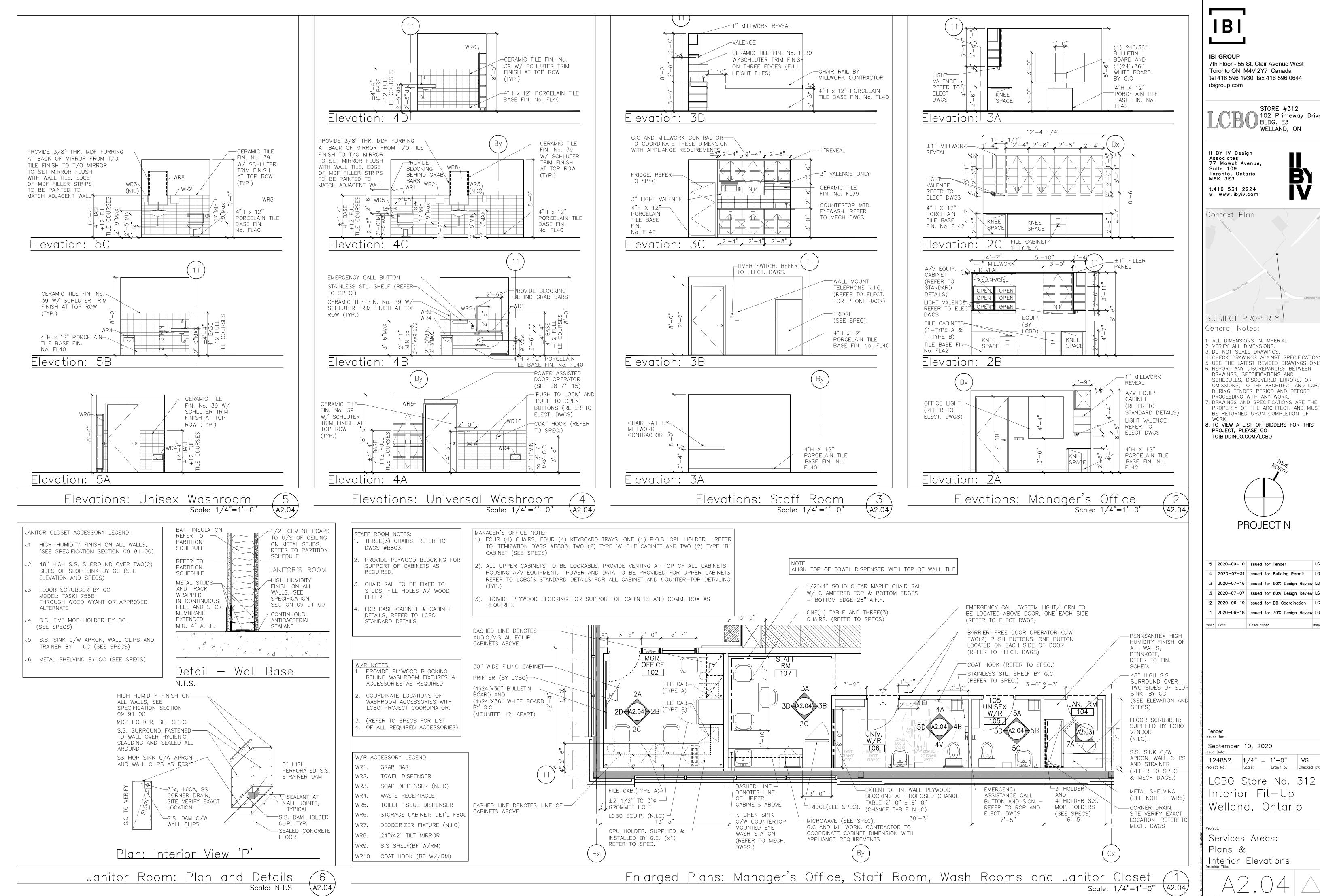
BOTH PIERS AND END GABLE AS SHOWN

ANODIZED) C/W "OPTIMAX2" LED LIGHTING

SUPPLIER TYP. (SEE B610)

INSTALLED BY G.C.

BCR Elevation



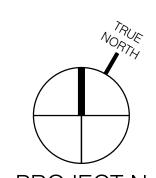
7th Floor - 55 St. Clair Avenue West Toronto ON M4V 2Y7 Canada

STORE #312 102 Primeway Drive BLDG. E3 WELLAND, ON

SUBJECT PROPERTY—

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3. TO VIEW A LIST OF BIDDERS FOR THIS

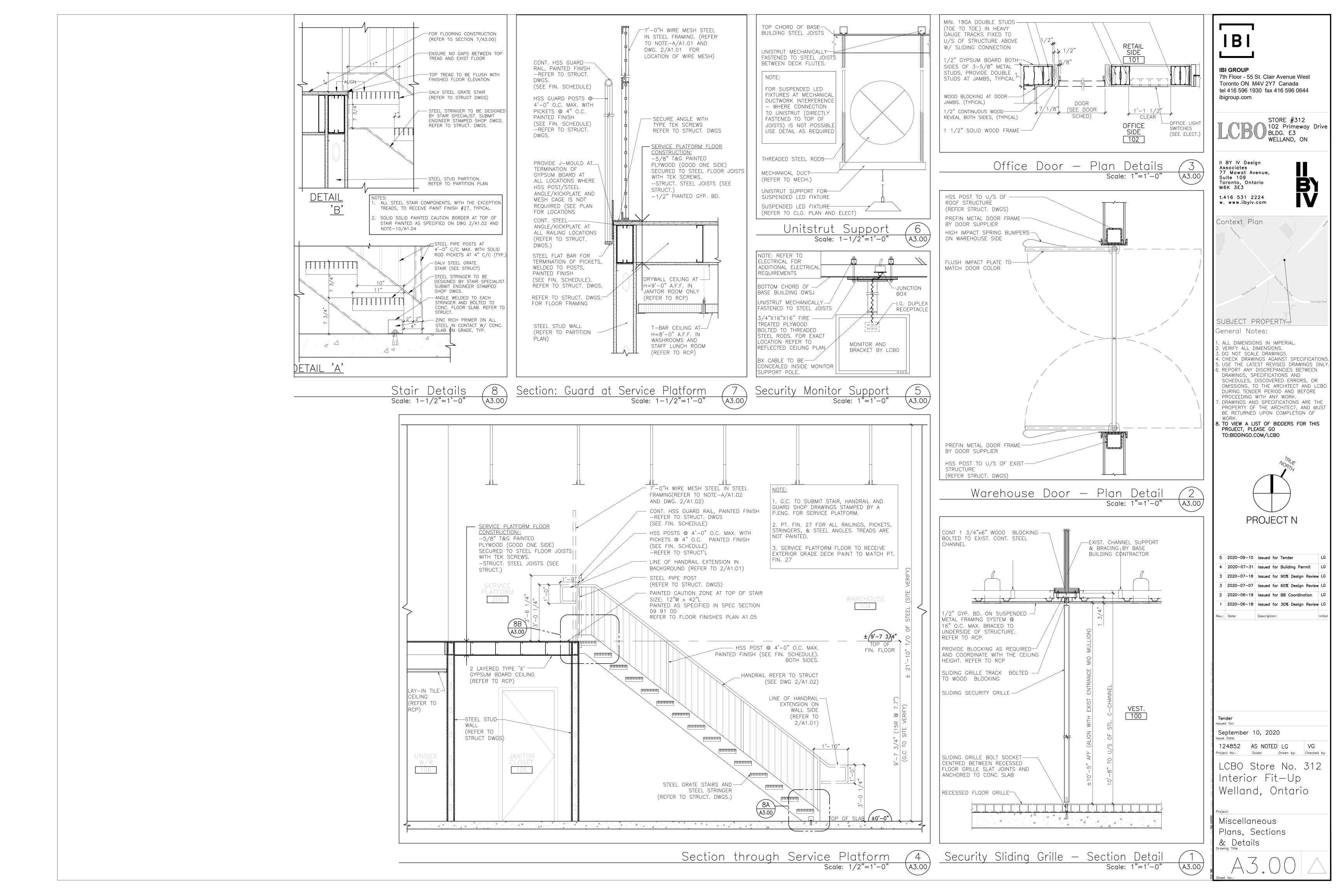


5 2020-09-10 Issued for Tender

2020-06-18 Issued for 30% Design Review LG

Project No.: Scale: Drawn by: Checked by LCBO Store No. 312 Interior Fit-Up

Services Areas:



NOTE: SUPPLEMENTAL FINISHES SCHEDULE TO SUPERCEDE SAMPLE BOARDS

				FINISHES SCHE		1 11 1101 12	3 SCHLDULL
	NO.	MATERIAL	COLOUR	DESCRIPTION	SOURCE	COMMENTS	LOCATION
	PL01	PLASTIC LAMINATE	SMOKEY WHITE	NEVAMAR ARP SURFACE 'SMOKEY WHITE' TEXTURED #S7027T	McFADDEN'S 2164 BUCKINGHAM ROAD, OAKVILLE, ON. L6H 6M7 CONTACT: LUCIA NIU TEL:: 416-674-3333		KITCHEN/DEMO, STAFF LUNCHROOM, WASHROOMS, LEARNING CENTRE & MANAGER'S OFFICE UPPER CABINET
	PL02	PLASTIC LAMINATE	DARK GREY	WILSONART 'SLATE GREY' #D91-60 FINISH: MATTE	WILSONART CANADA 380 COURTNEYPARK DR. E, UNIT A MISSISSAUGA, ON L5T 2S4 CONTACT: KATE HUETHER TEL: 519-274-9653		STANDARD FIXTURE GENERAL AREAS, CASH/ CHECK-OUT, AND MILLWORK FIXTURE KICK BASES WHERE APPLICABLE
LAMINATE	PL03	PLASTIC LAMINATE	LIGHT GREY	FORMICA 'GREY STONE' #464-58	FORMICA CANADA INC. CONTACT: MARIA BANNON—TURVEY TEL: 416—592—0664		FIXTURE DETAILING
PLASTIC LAMII	PL04	PLASTIC LAMINATE	BLACK	WILSONART 'BLACK' #1595-60 FINISH: MATTE	WILSONART CANADA 380 COURTNEYPARK DR. E, UNIT A MISSISSAUGA, ON L5T 2S4 CONTACT: KATE HUETHER TEL: 519-274-9653		MILLWORK BASES, FIXTURE DETAILING AND TYPICAL WAINSCOTTING AT OFFICE, CASH/CHECK-OUT & VESTIBULE
Δ.	PL05	PLASTIC LAMINATE	WHITE OAK FINISH	WILSONART 'NEW AGE OAK' #7983-38 FINISH: FINE VELVET FINISH	WILSONART CANADA 380 COURTNEYPARK DR. E, UNIT A MISSISSAUGA, ON L5T 2S4 CONTACT: KATE HUETHER TEL: 519-274-9653		GENERAL RETAIL FIXTURE & FASCIA DETAILING
	PT06	PLASTIC LAMINATE	SPECKLE GREY	COLOUR: #P-344RM 'INUKSHUK GREY' FINISH: MATTE	ARBORITE 111 RACE STREET, PARIS, ON. N3L 3G9 TEL: 647-206-2553 CONTACT: LESLEY HEYS		STAFF KITCHEN COUNTER, LEARNING CENTRE COUNTER & MANAGER'S OFFICE COUNTER
	PL07- PL12	RESERVED					
	NO.	MATERIAL	COLOUR	DESCRIPTION	SOURCE	COMMENTS	LOCATION
	PT13	PAINT	WHITE	POLYESTER WHITE #QC 28317	NEELAND'S GROUP LIMITED 4131 PALLADIUM WAY, BURLINGTON CONTACT: SCOTT CORBETT TEL: 905-322-4555; 416-798-9705		WALK-IN COLDROOM PREFABRICATED WALL & CEILING FINISHES
	PT14	PAINT	WHITE	PRODUCT: BENJAMIN MOORE ACRYLIC INT LATEX COLOUR: #OC-118 'SNOWFALL WHITE' FINISH: FLAT	BENJAMIN MOORE CO. LTD. 7070 MISSISSAUGA ROAD, SUITE 100 MISSISSAUGA, ON. L5N 7G2 TEL: 905-813-3700	LEED INITIATIVE	GENERAL RETAIL DRYWALL CEILING & UNDERSIDE OF DRYWALL BULKHEADS, UNDERSIDE OF ROOF DECK. ALL MECHANICAL DUCTWORK, ALL ELECTRICAL CONDUIT, ALL PLUMBING, ALL BASE BLDG. SERVICES, UNISTRUT & THREADED RODS ETC., LUNCHROOM, LEARNING CENTRE, WASHROOM WALLS & MANAGER'S OFFICE (EGGSHELL FINISH), WAREHOUSE (SEMI-GLOSS FINISH)
(0	PT14A	ELASTOMERIC ANTI-MICROBIAL COATING	WHITE	TO MATCH PAINT FINISH #14	PENKOTE LIMITED 516 FINLEY AVE. AJAX, ON. L1S 2E3 TEL: 905-683-6447	SUBMIT SAMPLE FOR APPROVAL	JANITOR ROOM WALLS & CEILING
S HS N I L	PT15	PAINT	LIGHT GREY	VIC STORE FIXTURES COLOUR #P88	VIC STORE FIXTURE INC. 1-888-758-0626		WALK—IN COLDROOM FLOOR GONDOLA BACK PANEL
	PT16	POWDER-COAT PAINT	FLAT BLACK	PRODUCT ID# BS642N4 FINISH: SMOOTH MATTE	PROTECH POWDERCOATING SALES@POROTECHPOWDER.COM	SUBMIT SAMPLE FOR APPROVAL	TYPICAL PERIMETER SHELVING, GONDOLA & BCR FIXTURES, SHELF COMPONENTS (BRACKETS, POSTS, ETC) EXCEPT METAL SHELVES ON ALL FLAT SHELF SURFACES
	PT16A	POWDER-COAT	GLOSS BLACK	PRODUCT: PROTECH ZT311N21 SUPER DURABLE FINISH: FLAG BLACK	PROTECH POWDERCOATING SALES@PROTECHPOWDER.COM	SUBMIT SAMPLE FOR APPROVAL	ON ALL FLAT SHELF SURFACES
	PT17	PAINT	DARK GREY	COLOUR: #SW 7026 'GRIFFIN' FINISH: SATIN	SHERWIN WILLIAMS CONTACT: DEAN GIVELAS C: (416)-432-6975 T: (905)-507-0166 EX 110	LEED INIATIVE	TYPICAL PERIMETER & GONDOLA METAL SHELVING UNIT KICK BASES AND REFRIGERATED GONDOLA KICK BASE
	PT18	RESERVED					
	PT19	PAINT	MEDIUM GREY	COLOUR: SW 7669 "SUMMIT GREY" FINISH: EGGSHELL	SHERWIN WILLIAMS CONTACT: DEAN GIVELAS C: (416)-432-6975 T: (905)-507-0166 EX 110		BCR WALL — EGGSHELL FINISH

	NO.	MATERIAL	COLOUR	DESCRIPTION	SOURCE	COMMENTS	LOCATION
	PT20	PAINT	WHITE	PRODUCT: BENJAMIN MOORE #K626 ACRYLIC INT LATEX COLOUR: #OC-118 'SNOWFALL WHITE' FINISH: EGGSHELL	BENJAMIN MOORE CO. LTD. 7070 MISSISSAUGA ROAD, STE 100 CONTACT: GLORIA RINALDI T: 905-761-4819 C: 416-428-66461	SUBMIT SAMPLE FOR APPROVAL	GENERAL RETAIL AREA WALLS & BULKHEADS
	PT21	ELASTOMERIC ANTIMICROBIAL COATING	WHITE	TO MATCH PAINT FINISH NO. PT20	PENNOTE LIMITED 516 FINLEY AVE., AJAX, ON L1S 2E3 TEL: 905-683-6447	SUBMIT SAMPLE FOR APPROVAL	VESTIBULE WALLS/DOOR TO SLIDING GRILLE ENCLOSURE. VESTIBULE COAT STORAGE IN PEARL FINISH
\mathcal{S}	PT22- PT23	RESERVED					
TINISHES	PT24	POWDERCOAT PAINT	MEDIUM GREY	COLOUR/RAL: IRON GLIMMER P3 PRODUCT ID: 49/70200 TYPE: POLYESTER FINISH: METALLIC	TIGER DRYLAC CANADA INC. 110 SOUTHGATE DRIVE, GUELPH, ONTARIO, N1G4P5 TEL: 519-766-4781	SUBMIT SAMPLE FOR APPROVAL	FIXTURE DETAILING AND WALK—IN COLDROOM METAL SHELVING
PAINT	PT25	PAINT	BLACK	PRODUCT: BENJAMIN MOORE ACRYLIC INT. LATEX COLOUR#: 2133-10 COLOUR: "ONYX" FINISH: SATIN	BENJAMIN MOORE CO. LTD. 7070 MISSISSAUGA ROAD, SUITE 100, MISSISSAUGA, ON. L5N 7G2 TEL: 905-813-3700		FEATURE WALLS ON BCR/BEER ALCOVE
	PT26	PAINT	DARK BEIGE	COLOUR: #HC-34 'WILMINGTON TAN' FINISH: ALKYD, LOW LUSTRE	BENJAMIN MOORE CO. LTD. 7070 MISSISSAUGA ROAD, SUITE 100 MISSISSAUGA, ON. L5N 7G2 TEL: 905-813-3700	SUBMIT SAMPLE FOR APPROVAL	WAREHOUSE MAN DOOR (EXTERIOR SIDES ONLY) USED W/ BRICK & DRYVIT EXTERIOR
	PT27	COLOUR: #1552 'RIVER REFLECTIONS' FINISH: ALKYD, LOW LUSTRE		BENJAMIN MOORE CO. LTD. 7070 MISSISSAUGA ROAD, SUITE 100 MISSISSAUGA, ON. L5N 7G2 CONTACT: GLORIA RINALDI TEL: 905-813-3700	SUBMIT SAMPLE FOR APPROVAL	MEZZANINE STAIRS, WAREHOUSE DOOR FRAMES, LUNCHROOM, WASHROOMS AND JANITOR ROOM DOOR AND FRAMES	
	NO.	MATERIAL	COLOUR	DESCRIPTION	SOURCE	COMMENTS	LOCATION
	WD28	WOOD VENEER	WHITE OAK	NATURAL QUARTER CUT OAK VENEER WITH POLYURETHANE MATTER FINISH, AG LIGHT OAK QUARTERED, COLOUR: MEDIUM, PART #50.60	BROOKSIDE VENEERS LID. CONTACT:	SUBMIT SAMPLE FOR APPROVAL; VENEER PRODUCT IS LAMINATED TO PHENOLIC BACKER 1MM THICK COMES IN 4'X10' SHEET	WOOD FEATURE WALL, VINTAGES RUNWAY METAL I—BEAM, VINTAGES WOOD CRATE, VINTAGES RISER BAC PANEL AT FEATURE WALL PERIM. SHELVING
	WD29	SOLID WOOD	WHITE OAK	RIFT CUT WHITE OAK AND COORDINATING VENEER W/ NON—YELLOWING STAIN SEALER	MILLWORK CONTRACTOR TO SUPPLY AND INSTALL	SAMPLE ON BOARD FOR REFERENCE ONLY. MATCH TO CONTROL SAMPLE SUPPLIER BY LCBO. SUBMIT SAMPLE FOR APPROVAL TO LCBO.	WOODWORK TRIM GENERAL RETAIL AREA FIXTURES
	NO.	MATERIAL	COLOUR	DESCRIPTION	SOURCE	COMMENTS	LOCATION
	CT33	CEILING	WHITE	SUSPENDED T-BAR CEILING BY AQUAROCK #1182-CRF-1 COLOUR: WHITE SIZE: 24"X24" SQUARE EDGE LAY-IN WITH WHITE #830 ALL ALUMINUM 15/16" EXPOSED T-BAR GRID SYSTEM BY CHICAGO METALLIC	DISTRIBUTOR: CERTAIN TEED CEILINGS CONTACT: NANCY McPHERSON TEL: 905-823-9881 MOBILE: 647-825-6238 EMAIL: nancy.mcpherson@saint-gobain.com	PROVIDE 4" HIGH 'INFINITY' PERIMETER METAL TRIM ALONG PERIMETER OF T-BAR CEILING, 'ENGINEERED (STRAIGHT EDGE) SERIES' BY CHICAGO METALLIC C/W REQUIRED CORNER KITS, SPLICE PLATES, GRID CLIPS, ETC. AS REQURED. DISTRIBUTOR: ARRLIN ACOUSTICS CONTACT: MARK NEWMAN OR BRIAN SPURR TEL: 416-798-9200	WALK-IN COLDROOM
\mathcal{O}	CT34	RESERVED					
FINISHES	CT35	RESERVED					
CEILING FIN	CT36	CEILING TILE	WHITE	CGC INC. 'RADAR' #2110 SQUARE EDGE SIZE: 24" X 24" X 5/8" COLOUR: WHITE	CGC INC. 350 BURNHAMTHROPE ROAD WEST 5th FLOOR MISSISSAUGA, ON. L5B	FOR FIRE RATED CEILING USE CGC 'RADAR' #2115 24" X 24" X 5/8"	SERVICE AREA & MANAGER'S OFFICE
\bigcirc		T-BAR	WHITE	CGC INC. DONN DX 15/16" EXPOSED FACE T-BAR GRID COLOUR: WHITE	3J1 TEL: 905-803-5600	FOR FIRE RATED CEILING USE CGC DONN DXL 15/16" T-BAR GRID	IVIAINAULIN 3 UFFIUE
	CT37	RESERVED					
	CT38	CEILING TILE	WHITE	ARMSTRONG MESA FINE TEXTURE BEVELLED TEGULAR-#682 COLOUR: WHITE SIZE: 24" X 24" X 3/4"	ARMSTRONG WORLD INDUSTRIES CANADA 111 DAVIS DRIVE #1-254 NEW MARKET, ON. L3Y 9E5 CONTACT: SARAH WITHEY		GENERAL RETAIL AREA SPECIFIC TO LCBO STORE #486, #528, #164, #500
		T-BAR	WHITE	ARMSTRONG SUPRAFINE XL 9/16" EXPOSED TEE SYSTEM COLOUR: WHITE	TEL: 416-525-0003		

IBI

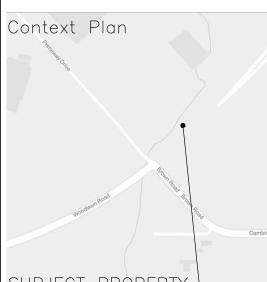
IBI GROUP

7th Floor - 55 St. Clair Avenue West Toronto ON M4V 2Y7 Canada tel 416 596 1930 fax 416 596 0644 ibigroup.com

STORE #312
102 Primeway Drive
BLDG. E3
WELLAND, ON

II BY IV Design Associates 77 Mowat Avenue, Suite 109 Toronto, Ontario M6K 3E3 t.416 531 2224 w. www.iibyiv.com

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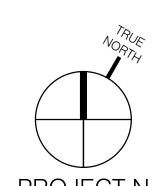


SUBJECT PROPERTY

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8. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT, PLEASE GO TO:BIDDINGO.COM/LCBO



September 10, 2020 Issue Date:

124852 N.T.S. VG
Project No.: Scale: Drawn by: Checked by: LCBO Store No. 312 Interior Fit-Up Welland, Ontario

Supplemental Finishes Schedule

NOTE: SUPPLEMENTAL FINISHES SCHEDULE TO SUPERCEDE SAMPLE BOARDS

			•	FINISHES SCHE			0 00112002
	NO.	MATERIAL	COLOUR	DESCRIPTION	SOURCE (S OF 4)	COMMENTS	LOCATION
	FL39	CERAMIC TILE	WHITE	COLOUR & DIMENSIONS COLLECTION COLOUR: 'ARCTIC WHITE MATTE' SIZE: 4.25" X 8.5" CODE: #QT.CD.ARW.0408MT (INSTALLED IN STACK BOND PATTERN)	OLYMPIA TILE INTERNATIONAL INC. 1000 LAWRENCE AVE. W. TORONTO, ON. M6B 4A8 CONTACT: PEONY SETO	GROUT BY FLEXTILE #510 'BRIGHT WHITE' UNSANDED 1/8" MAX. THICKNESS	WASHROOM WALL TILE — FINISH HEIGHT OF #39 TO BE FROM 4"AFF. TO TOTAL OVERALL HEIGHT OF 42.25" AFF. (I.E. 9 FULL TILE) ALSO STAFF LUNCHROOM BACK SPLASH
	FL40	PORCELAIN TILE	DARK GREY	REGAL COLOUR: DARK GREY MATTE SIZE: 12" X 12" CODE: #NY.RG.DGR.1212.MT FINISH: MATTE	TEL: 416.785.9555 EXT. 254 CELL: 416.819.9835 EMAIL: <u>PEONY@OLYMPIATILE.COM</u>	GROUT BY FLEXTILE #663 'NORTH SEA GREY' (SANDED) 1/8" MAX. THICKNESS	WASHROOM, STAFF LUNCHROOM & LEARNING CENTRE (FLOOR TILE & WALL BASE). WALL BASE SIZE: 4"HT X 12" LONG
	FL41	VINYL BASE	GREY	VINYL WALL BASE COLOUR: #121 CEMENT	JOHNSONITE TEL: 905-886-8081		WAREHOUSE & RETAIL AREA (WHERE APPLICABLE)
E FINISHES	FL42	PORCELAIN TILE	GREY	LAB 21 MATTE 12" X 24" PORCELAIN TILE BASE 4" HT X 12"LONG COLOUR: 'FOG' (SILVER GREY) FINISH: MATTE CODE: #KM.LB.FOG.1224.MT TILE ORIENTATION: 30/70 INFINITY PATTERN OR SOHO COLLECTION BY MARAZZI 12" X 24" PORCELAIN TILE BASE: 4"HT X 12"LONG COLOUR: 'SOHO GREY RETT' FINISH: MATTE TILE ORIENTATION: 30/70 INFINITY	OLYMPIA TILE INTERNATIONAL INC. 1000 LAWRENCE AVE. W. TORONTO, ON. M6B 4A8 CONTACT: PEONY SETO TEL: 416.785.9555 EXT. 254 CELL: 416.819.9835 EMAIL: PEONY@OLYMPIATILE.COM	GROUT BY FLEXTILE #663 'NORTH SEA GREY' (SANDED) 1/8" MAX. THICKNESS	GENERAL RETAIL AREA, MANAGER'S OFFICE, VINTAGES & BCR (FLOOR TILE & WALL BASE). PROVIDE 4"HT X 12"LONG TILE BASE (CUT FROM SPECIFIED 12" X 24" TILES) TO ALL PERIMETER WALLS AS PER INTERIOR ELEVATIONS
	FL43	PORCELAIN TILE	SILVER GREY	LAB 21 STRUCTURED 12" X 12" PORCELAIN TILE COLOUR: 'FOG' (SILVER GREY) FINISH: STRUCTURED CODE: #KM.LB.FOG.1212.ST.	OLYMPIA TILE INTERNATIONAL INC. 1000 LAWRENCE AVE. W. TORONTO, ON. M6B 4A8 CONTACT: PEONY SETO TEL: 416.785.9555 EXT. 254 CELL: 416.819.9835 EMAIL: PEONY@OLYMPIATILE.COM	GROUT BY FLEXTILE #663 'NORTH SEA GREY' (SANDED) 1/8" MAX. THICKNESS	VESTIBULE (FLOOR TILE & WALL BASE) WALL BASE SIZE: 4"HT X 12" LONG
	FL44	MARMOLEUM	SREY	MARMOLEUM MODULAR BY FORBO COLOUR: 72629 'EIGER' SIZE: 10"X20" GAUGE 1/10" (2,5MM)	FORBO FLOORING SYSTEMS 25 POLLARD STREET RICHMOND HILL, ON, L4B 1A8 CONTRACT. CHRISTIE WHITE TEL:416,661,2351 CELL:416.520.2127 EMAK: CHRISTIE, WHITE @FORBO, COM		GENERAL RETAIL AREA AND MANAGER'S ØFFICE. PROVIDE 4" HIGH VINYL WALL BASE FIM, INO. 41 TO ALL PERIMETER WALLS AS PER INTERIOR ELEVATIONS.
	F).45	THIM PORCELAIN SLABS	BARK GREY	LAMINAM BLEND: NERØ THK: 3,5MM SIZE: 100CM X 300CM	\$76NE 71LE 834 CALEDOWA RD. NORTH YORK, ON M6B 3X9 CONTACT: HEMBIETTA SHENDEREY TEL: 416.515.9000 X.233 CELL: 416.879.7953 EMAIL: HENRIETTAS@STONE—TILE.COM	THIM SET MORTAR	STOREFRONT WALL SPECIFIC TO STORE 541
	FL46- FL54	RESERVED					
<u> </u>		MATERIAL	COLOUR SATIN STAINLESS	DESCRIPTION	SOURCE	COMMENTS SUBMIT SAMPLE FOR	LOCATION GENERAL RETAIL AREA FIXTURE
X X X X X X X X X X X X X X X X X X X	MISS METAL STEEL		REFER TO THE SRRS	APPROVAL	DETAILING		
METAL MISCELL US FINIS	MOE 7	BULLETIN BOARD	LETIN BOARD GREY BULLETIN BOARD #2182		PHOENIX FLOOR & WALL PRODUCTS INC. CONTACT: CHRISTIE WHITE TEL: 416-661-2351		
	NO.	MATERIAL	COLOUR	DESCRIPTION	SOURCE /// MERICIAN BRICK///	COMMENTS	LOCATION
	EX-1	BRICK WALLS	DARK GREY	COLOUR: URBAN BRICK (GALAXY) SIZE: 57mm H. x 90mm 0 x 397mm L. MORTAR COLOR: NATURAL GREY	5155 DUMDAS ST. W. BURLINGTON, ON: CONTACT: TERRY KLINGSPOHN TEL: 416-801-1838 EMAK; terry klingspokn@meridianbrick.ca		EXTERIOR WALLS
	EX-12	BRICK WALKS	WARM BEIGE	COLOUR: ABELAIDE SMOOTH 81ZE: 57mm H. X. 90mm B. X 397mm L. MORTAR COLOR: MATURAL GREY	5155 DUNDAS ST. W. 5155 DUNDAS ST. W. BURLINGTON, ON. CONTACT: TERRY KLINGSPOHN TEL: 416-801-1638 EMAK: terry.klingspokn@meridiankrick.ca RICHVALE YORK BLOCK MC.		EXTERIOR WALLS
	EX - 3	CONCRETE BLOCK (BASE)	BLACK	PRODUCT: CAMBRIBGE SERIES FINSH: STIPPLED ARCHITECTURAL SILL R24-2.25 ANGLED COLOUR: DIAMOND BLACK	GÓRMLEY, ØN. CONTACT: LUCIANO TESEO TEL:: 416-213-7444 EXT. 235 ORDER BESK: 416-213-7447 EMAK: Iteseo.richvaleyork@bellnet.ca		CONCRETE BASE
FINISHES	XX-A	COMCRETE SILL (BASE)	BŁĄĆĶ	PRODUCT: CAMBRIDGE ARCHITECTURAL SILL R24-2:25 ANGLED COLOUR: DIAMOND BLACK	GORMLEY, ON. CONTACT: LUCIANO TESEO TEL:: 416-213-7444 EXT. 235 ÖRDER BESK: 416-213-7447 EMAK: Iteseo.richvaleyork@belinet.ca MERIDIAN BRICK		COMCRETE SILL
EXTERIOR	EX62	BRICK (FIELD)	YELLOW	COLOUR: SIERRA SANDSTONE SMOOTH SIZE: 90mm H. x 90mm D. x 290mm L. METRIC JUMBO FORMAT. MORTAR COLOR: NATURAL GREY	SOLOUR: SIERRA SANDSTONE 5155 DUNDAS ST. W. BURLINGTON, ON. CONTACT: TERRY KLINGSPOHN TEL: 416-801-1638 EMAIL: terry.klingspohn@meridianbrick.ca		EXTERIOR WALLS
	EX63	BRICK (SOLDIER COURSE)	DARK GREY	PRODUCT: NOBLE ARCHITECTURAL BLOCK COLOUR: CHARCOAL FINISH: BUFF SIZE: 3 5.8" H. x 3 3/8" D. x 11 5/8" L. MORTAR COLOUR: NATURAL GREY	MANUFACTURER: PERMACON GROUP. DISTRIBUTED BY: PERMACON GROUP, MILTON, ON. CONTACT: MARIO NUNES CELL PH. 416-578-1903 EMAIL: mnunes@permacon.ca		EXTERIOR WALLS—SOLDIER COURSE ABOVE AWNINGS & BETWEEN BRICK PIERS
	EX64	CONCRETE BLOCK (BASE)	DARK GREY	PRODUCT: NOBLE ARCHITECTURAL BLOCK COLOUR: CHARCOAL. FINISH: BUFF. SIZE: 3 5.8" H. x 3 3/8" D. x 11 5/8" L. MORTAR COLOUR: NATURAL GREY OR PRODUCT: CAMBRIDGE SERIES COLOUR: DIAMOND BLACK FINISH: STIPPLED	MANUFACTURER: PERMACON GROUP. DISTRIBUTED BY: PERMACON GROUP, MILTON, ON. CONTACT: MARIO NUNES CELL PH. 416-578-1903 EMAIL: mnunes@permacon.ca OR RICHVALE YORK BLOCK INC. GORMLEY, ON. CONTACT: LUCIANO TESEO TEL: 416-213-7444 EXT: 236 ORDER DESK: 416-213-7447 EMAIL: Iteseo.richvaleyork@bellnet.ca		CONCRETE BLOCK BASE

	NO.	MATERIAL	COLOUR	FINISHES SCHE	SOURCE	COMMENTS	LOCATION
	INU.	IVIAILINIAL	COLOUI	DESCRIPTION	SOUNCE	COMINICITIS	LOCATION
	EX65	DOOR & WINDOW FRAMES	CLEAR ANODIZED ALUMINUM	CATEGORY: ALUMILITE CLEAR ANODIZED FINISH COLOUR: NO. 17 CLEAR	MANUFACTURER: KAWNEER CONTACT: SUSIE DAGRACA TEL: 905-673-5400	EXTERIOR CAULKING PRODUCT: TREMCO COLOUR: ANODIZED ALUM.	EXTERIOR GLAZING
	EX66	SPANDREL GLAZING	GREY	OPACI-COAT-300 (OR APPROVED EQUAL) COLOUR: NO. 3-1850 'KENDALL CHARCOAL' (BENJAMIN MOORE NO. HC-166)	ICO COATINGS TEL: 360-546-2286	SUBMIT SAMPLE FOR APPROVAL	EXTERIOR SPANDREL GLAZING
	EX67a	ALUMINUM COMPOSITE PANEL	BRIGHT SILVER METALLIC		AS PER THE LBBR		CANOPIES ONLY
	EX67b	PREFINISHED METAL FLASHING	BRIGHT SILVER METALLIC		AS PER THE LBBR		PARAPHET & MISC. FLASHING
	EX68	POWDER COATED PAINT	MEDIUM GREY	COLOUR: IRON GLIMMER P3 (FOR EXTERIOR USE) PRODUCT ID: 49/70200 TYPE: POLYESTER FINISH: METALLIC	TIGER DRYLAC CANADA INC. GUELPH, ON. M9L 1X3 TEL: 591-766-4781		EXTERIOR DISPLAY BANNER HARDWARE LOCATED ON BRIC PIERS
	EX69	POWDER COATED PAINT	MEDIUM GREY	MATTHEWS PAINT — MPC 101 42 MP12734 GARRISON MATTE FINISH — 2 COATS	FORWARD SIGNS CONTACT: MARLENE BUSSINEAU EMAIL: marlene.bussineau@forwardsigns.co m		EXTERIOR 'LCBO' ILLUMINATEI TRIM CAPS
S	EX78-EX76	RESERVED					
OR FINISHE	E \$17	CONCRETE BLOCK (BASE)	LIGHT OKEY	PRODUCT: CAMBRIDGE SERIES COLOUR: ONYX FINISH: SMOOTH	RICHVALE YORK BLOCK INC. SØRMLEY, ON. CONTACT: LUCIANO TESEO TEL: 416-213-7444 EXT: 236 ØRDER DESK: 416-213-7447 TOLL FREE: 1-877-792-5625		CONCRETE BLOCK BASE FØB SIDING STORE
EXTERI	EX78-EX78	RESERVED		MORTAB COLOUR TO MATCH	TOLL FREE, 1-877-792-5625 EMAIL: Iteseo.richvalo@bellnet.ca		
	EX80	PREFINISHED SIDING	SREY	HARDIE-PLAMK LAP SIDING COLOUR: MONTEREY TAUPE TEXTURE: SELECT CEDARMILL WIDTH: 8.25" (5" EXPOSURE)	MANUFACTURER: JAMES HARDIE TEX: 1-866-4-HARDIE		EXTERIOR CLADING (FIELD)
	EX81	PREFINISHED SIDIMO TRIM BOARDS	ÇREAM	HARDIE-PLANK LAP SIDING COLOUR: COBBLE STONE SMOOTH WIDTH: 4.5"	MANUFACTURER: JAMES HARDIE JEL: 1-868-4-HARDIE		EXTERIOR CLADING (TRIM)
	Ex82	RESERVED					
	£x83	PAINT	GREY	COLOUR! MO. HC-108 'SANDY HOOK GRAY' FIMISH: ALKYD, LOW LUSTRE	BENJAMIN MOORE CO. LTD. 7070 MISSISSAUGA ROAD, SUITE 100 MISSISSAUGA, ON. L5N 702 TEL: 905-813-3700	SUBMIT SAMPLE FOR APPROVAL	WAREHOUSE MAN BOORS (EXTERIOR SIDE ONLY) USED W/ EXTERIOR SIDING ON
	£%8 <i>%</i>	BRWIT	GREY	SANDPEBBLE FINE ØPR LCBO STANLESS	DRYVIT SYSTEMS CANADA LTD. CONTACT: ANDRÉAS LUETH TEL: 905-856-7310 EXT, 29	SUBINT SAMPLE FOR APPROVAL	EXTERIOR WALLS
	EX85	BRYVIT	GREY	SANOPEBBLE FINE DER LOBO STANLESS	DRYUT SYSTEMS CANADA LTO: CONTACT: ANDREAS LUETH TEL: 905-856-7310 EXT, 29		
	NO.	MATERIAL	COLOUR	DESCRIPTION	SOURCE	COMMENTS	LOCATION
JUE / ISHES	WF86	PAINT	LIGHT GREY	PRODUCT: BENJAMIN MOORE ACRYLIC INT LATEX COLOUR#: SW 7668 COLOUR: "MARCH WIND" FINISH: GLOSSY	BENJAMIN MOORE CO. LTD. 7070 MISSISSAUGA ROAD, SUITE 100 MISSISSAUGA, ON. L5N 7G2 TEL: 905-813-3700		WAYFINDING CRESTS
INIEKIUK SIGNAU WAYFINDING FINI	WF87	PAINT	BLACK	LETTERS & CRESTS FOR PAINT FINISH: BENJAMIN MOORE COLOUR#: 2133-10 'ONYX' FINISH: SATIN	BENJAMIN MOORE CO. LTD. 7070 MISSISSAUGA ROAD, SUITE 100 MISSISSAUGA, ON. L5N 7G2 TEL: 905-813-3700	FORWARD SIGNS CONTACT: HOLLY WONG EMAIL: holly.wong@forwardsigns.com	WAYFINDING SIGNAGE LETTERS, WALL CRESTS IN GLOSS
	WF88	PAINT	WHITE	LETTERS FOR PAINT FINISH: BENJAMIN MOORE COLOUR: OC-118 'SNOWFALL WHITE' FINISH: SATIN	BENJAMIN MOORE CO. LTD. 7070 MISSISSAUGA ROAD, SUITE 100 MISSISSAUGA, ON. L5N 7G2 TEL: 905-813-3700	FORWARD SIGNS CONTACT: HOLLY WONG EMAIL: holly.wong@forwardsigns.com	WAYFINDING SIGNAGE LETTER:

Finishes Schedule



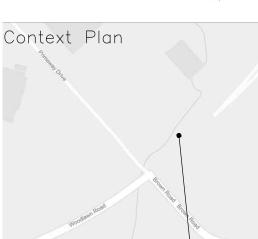
7th Floor - 55 St. Clair Avenue West Toronto ON M4V 2Y7 Canada tel 416 596 1930 fax 416 596 0644

STORE #312 102 Primeway Drive BLDG. E3 WELLAND, ON

II BY IV Design Associates 77 Mowat Avenue, Suite 109 Toronto, Ontario M6K 3E3

t.416 531 2224 w. www.iibyiv.com





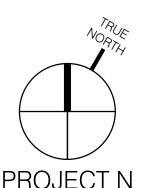
SUBJECT PROPERTY

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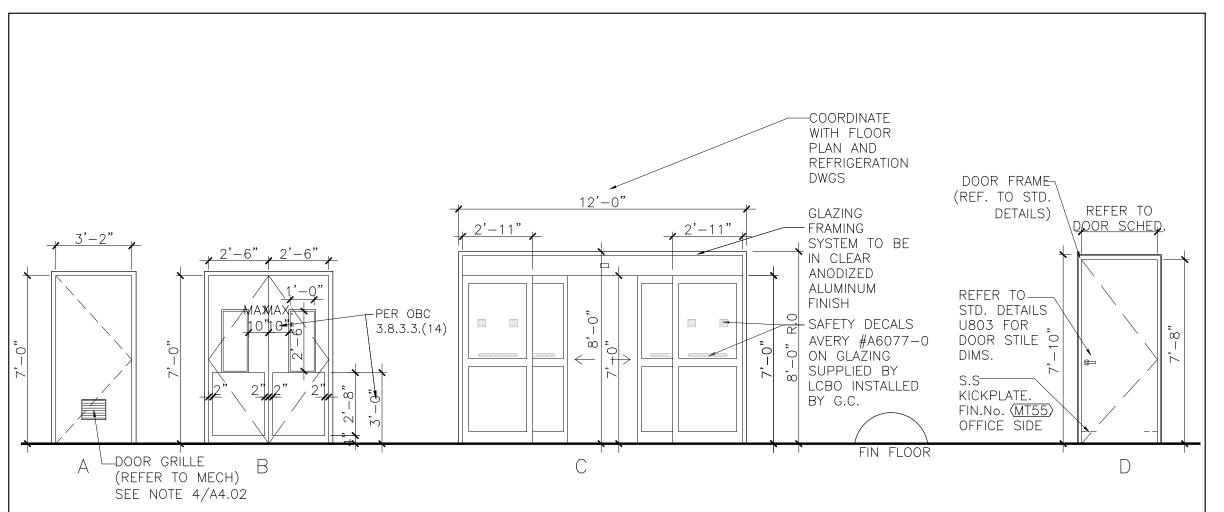
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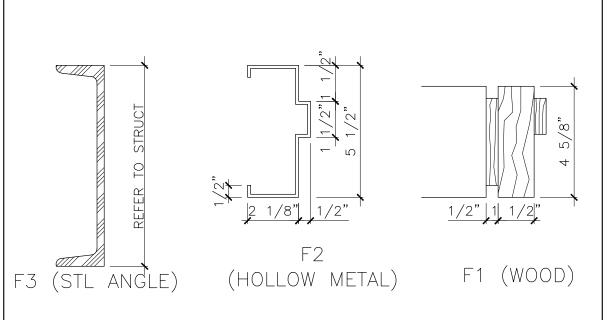
Supplemental Finishes Schedule

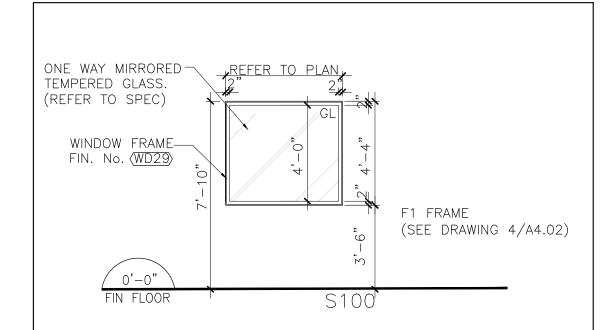


OOR SCHEDULE GENERAL NOTES:	ABBREVIATIONS:
REFER TO SPECIFICATION SECTION 08 70 00 FOR DOOR HARDWARE AND HARDWARE SCHEDULE. ALL LOCKS THAT GAIN ACCESS TO LCBO'S PREMISES FROM THE OUTSIDE WILL BE TYPICAL MEDECO TYPE KEYED ALIKE. G.C TO MARK THIS KEY AS "ENTRANCE" THE FOLLOWING LOCATIONS: -D100 ENTRANCE DOOR -SECURITY GRILLE -D101 -D102 -D200	HM -HOLLOW METAL PTPAINT ALUMALUMINUM VI -VISION GLASS GL -GLASS/GLAZING PTPAINT PREFINPREFINISHED LAM -LAMINATED GLASS TEMPTEMPERED GLASS CONCCONCRETE
ALL LOCKS THAT ARE FOR OPERATIONAL NEEDS WILL BE KEYED ALIKE, HIGH QUALITY TYPE MECHANISM. G.C TO MARK THIS KEY AS "OPERATIONAL ITEMS", I.E: -D103 OFFICE DOORLOCK FOR UPSPADLOCKS FOR ROLL-UP RECEIVING DOOR AND ROOF HATCHLOSS PREVENTION CAGE IN WAREHOUSE, ETC. HIGH QUALITY TYPE MECHANISMRETAIL LOCKABLE FIXTURESD108 UNIVERSAL WASHROOM.	FIN. —FINISH







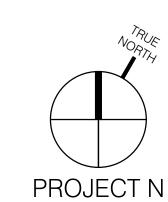


Screen Types 3
Scale: N.T.S. A4.02 Door Frame Types Scale: N.T.S. (A4.02)

					R 0 (0 M F	INISH	H S C	HED	U L E	
ROOM	ROOM	FLOOR			WALLS			CEILING			REMARKS
No.	NAME	MATERIAL	FINISH	BASE	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	
100	VESTIBULE	EXIST. CONC	. FIN. No. 43 PORCELAIN FLOOR TILE	FIN. No. 43 PORCELAIN	DRYWALL	PT. FIN. 21A	LIGHT GREY	DRYWALL	PT. FIN. 14	WHITE	TRANSITION BORDER TILE FIN. No.42 FROM VESTIBULE TO RETAIL. PROVIDE 4"H x 12" TILE BASE CUT FROM SPECIFIED FLOOR TILE.
101	RETAIL	EXIST. CONC	. FIN. No. 42 PORCELAIN FLOOR TILE	FIN. No. 42 PORCELAIN FLOOR TILE	DRYWALL	PT. FIN. 20A/ SW7018 DOVETAIL EGGSHELL (REFER TO ELEV. 2/A2.01)	LIGHT GREY/ DOVETAIL	EXPOSED	PT. FIN. 14	WHITE	REFER TO ELEVATIONS FOR PAINT FINISHES EXPOSED RETAIL CEILING INCLUDING STEEL STRUCT, MECH DUCTS, ELECT WIRES AND PLUMBING LINES TO BE PAINTED PT. FIN. NO. 14. REFER TO INTERIOR ELEVATION FOR CHANGES IN WALL FIN. PAINT FIN. SW7018 DOVETAL APPLIED TO PORTION OF INT. ELEVATION 2/A2.01 (REFER TO ELEVATION FOR EXTENT).
102	OFFICE	EXIST. CONC	. FIN. No. 42 PORCELAIN FLOOR TILE	FIN. No. 42 PORCELAIN BASE	DRYWALL	PT. FIN. 14	WHITE	T-BAR	FIN. 36	WHITE	-PROVIDE 4"H x 12" TILE BASE CUT FROM SPECIFIED FLOOR TILE -PROVIDE EGGSHELL FINISH ON WALLS
103	WALK-IN COLDROOM	EXIST. CONC	. FIN. No. 42 PORCELAIN FLOOR TILE	FIN. No 42 PORCELAIN FLOOR TILE	INSULATED METAL PANELS	FINISH TO MATCH PT. FIN. 13	FINISH TO MATCH PT. FIN. 13	T-BAR	PT. FIN. 33	3 WHITE	-REFER TO SPECS FOR INSULATED METAL PANEL SYSTEMAPPLY ANTI-FUNGAL PAINT ON WALLS IMMEDIATELY BEHIND ALL REFRIGERATION UNITS (TYP.) -BCR BOX FIN COLOUR: REFER TO SPEC AND SUPPLEMENTAL FIN. SCHED.
104	WAREHOUSE	EXIST. CONC	. EXIST. CONC. W/HARDENER SEALER	FIN. No.41 VINYL BASE	DRYWALL W/ PLYWOOD PANELS (GOOD ONE SIDE)	PT. FIN.14 (SEMI-GLOSS FINISH)	WHITE	EXPOSED/ DRYWALL	PT. FIN. 14	WHITE	-SEMI-GLOSS FINISHEXPOSED WAREHOUSE CEILING INCLUDING STEEL STRUCTURE, MECH. DUCTS, ELECT LINES AND PLUMBING LINES TO BE PAINTED PT. FIN. 14REFER TO PARTITION PLAN FOR EXTENT OF PLYWOOD REQUIREMENTSPROVIDE VINYL BASE No.41 THROUGHOUT UNLLESS NOTED OTHERWISE.
105	STAFF ROOM	EXIST. CONC	. FIN. No. 40 PORCELAIN FLOOR TILE	FIN. No. 40 PORCELAIN BASE	DRYWALL	PT. FIN. 14 TILE No. 39	WHITE	T-BAR	FIN. 36	WHITE	-PROVIDE EGGSHELL FINISH ON WALLSPROVIDE 4"H x 12" TILE BASE CUT FROM SPECIFIED FLOOR TILE.
106	UNIV. W/RM	EXIST. CONC	. FIN. No. 40 PORCELAIN FLOOR TILE	FIN. No. 40 PORCELAIN BASE	DRYWALL	PT. FIN. 14 TILE No. 39	WHITE	T-BAR	FIN. 36	WHITE	-PROVIDE EGGSHELL FINISH ON WALLSPROVIDE 4"H x 12" TILE BASE CUT FROM SPECIFIED FLOOR TILEPROVIDE FIN. No 39., CERAMIC WALL TILE ON WALLS (REFER TO WASHROOM ELEVATIONS)
107	UNISEX W/RM	EXIST. CONC	. FIN. No. 40 PORCELAIN FLOOR TILE	FIN. No. 40 PORCELAIN BASE	DRYWALL	PT. FIN. 14 TILE No. 39	WHITE	T-BAR	FIN. 36	WHITE	-PROVIDE EGGSHELL FINISH ON WALLSPROVIDE 4"H x 12" TILE BASE CUT FROM SPECIFIED FLOOR TILEPROVIDE FIN. No 39., CERAMIC WALL TILE ON WALLS (REFER TO WASHROOM ELEVATIONS)
108	JANITOR CLOSET	EXIST. CONC	. EXIST. CONC. W/HARDENER SEALER	_	CEMENT BOARD	PT. FIN.14A	WHITE	DRYWALL	PT. FIN.14A		-HIGH HUMIDITY FINISH ON ALL WALLS. SEE SPECSPROVIDE CONTINUOUS ANTI-BACTERIAL SEALANT AT ALL WALL BASE AT FLOOR JUNCTIONDO NOT PROVIDE WALL BASE FOR JANITOR ROOM WALLS.
200	SERVICE PLATFORM	ON STEEL	FIN. No. 27 EXTERIOR GRADE DECK	FIN. No. 41 VINYL BASE	DRYWALL W/ FIRE-RATED PLYWOOD AT	PT. FIN. 14	WHITE	EXPOSED/ DRYWALL	PT. FIN. 14	WHITE	-FLOOR: FINISHED WITH EXTERIOR GRADE DECK PAIN TO MATCH FIN. 27WALLS: FINISHED AS SPECIFIED FOR WAREHOUSE WALLSPLYWOOD BEHIND ELECTRICAL PANEL FINISH WITH PT. FIN. 14.

Room Finish Schedule





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IBI GROUP

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Context Plan

SUBJECT PROPERTY-

1. ALL DIMENSIONS IN IMPERIAL. 2. VERIFY ALL DIMENSIONS. 3. DO NOT SCALE DRAWINGS.

PROCEEDING WITH ANY WORK.

TO:BIDDINGO.COM/LCBO

4. CHECK DRAWINGS AGAINST SPECIFICATIONS 5. USE THE LATEST REVISED DRAWINGS ONLY 6. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND

SCHEDULES, DISCOVERED ERRORS, OR OMISSIONS, TO THE ARCHITECT AND LCBO DURING TENDER PERIOD AND BEFORE

7. DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT, AND MUST BE RETURNED UPON COMPLETION OF

8. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT, PLEASE GO

General Notes:

Suite 109

7th Floor - 55 St. Clair Avenue West Toronto ON M4V 2Y7 Canada tel 416 596 1930 fax 416 596 0644

> STORE #312 102 Primeway Drive BLDG. E3

WELLAND, ON

BIV

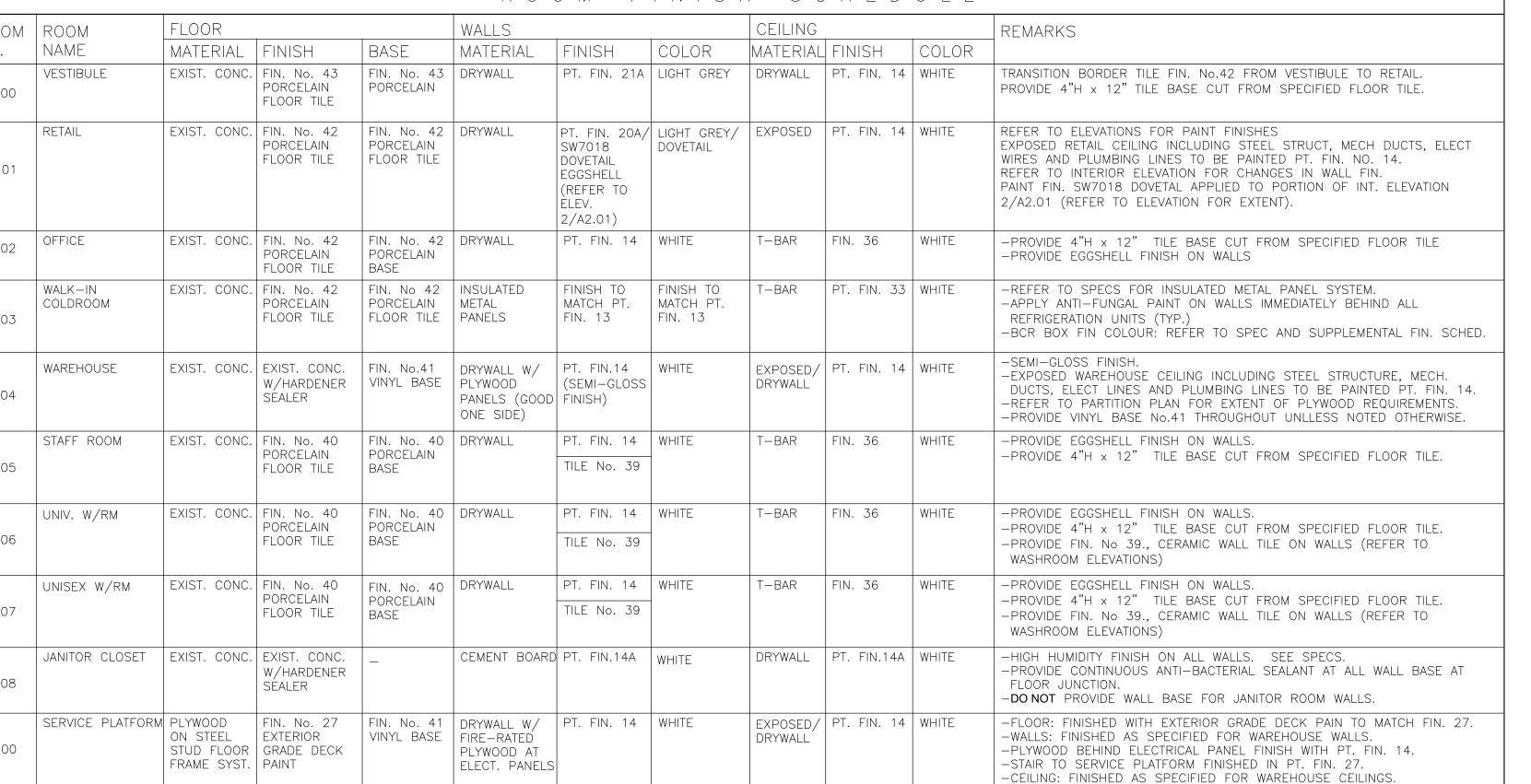
September 10, 2020 124852 N.T.S.

LCBO Store No. 312 Interior Fit-Up Welland, Ontario

Project No.: Scale: Drawn by: Checked by:

Room Finishes Schedule, Door Schedule and Door Frame

Scale: N.T.S. A4.02



DOOR SCHEDULE

	LOCATION	SIZE	DOOR				FRAME			FIRE REMARKS		
		W x H x D	TYPE	MATERIAL	FINISH	GLASS	TYPE	MATERIAL	FINISH	RATING		
D100	EXTERIOR TO VESTIBULE	EXIST.	-	_	_	_	-	_	_	_	EXIST. DOOR BY L.L	
D101	VESTIBULE TO RETAIL	EXIST.	-	_	_	_	_	_	_	_	EXIST. DOOR BY L.L	
D102	RETAIL TO VESTIBULE	EXIST.	-	_	_	_	_	_	_	_	EXIST. DOOR BY L.L	
D103	RETAIL TO OFFICE	3'-2" × 7'-8" × 1 3/4"	D	WOOD VENEER	REFER TO STD DELL	SEE SPEC. & STD DTL. F803		SOLID WOOD	FIN. #28	_	SET CLOSER AT 90 DEGREES. STAINLESS STEEL KICK PLATE ON RETAIL SIDE ONLY (DOOR AND FRAME BY MILLWORK CONTRACTOR)	
D104	RETAIL TO COLDROOM	2-3'-0" × 7'-0" × 1 3/4"	POCKET SLIDER (TYPE C)	ALUM./GL.	GLAZING SYS. TO BE CLEAR ANODIZED ALUM.	SEE SPEC.	REFER TO SPEC	ALUM.	CLEAR ANODIZED ALUM.	_	AUTOMATIC SLIDING DOOR. SLIDING DOORS TO BE BREAKOUT TYPE. COORDINATE WITH SPECIFICATIONS.	
D105	WAREHOUSE TO COLDROOM	5'-6" x 7'-0" x 1 3/4"	INSULATED SLIDING DOOR BY COLDRM SUPPLIER	REFER TO SPEC	REFER TO SPEC	SEE SPEC.	_	METAL	REFER TO SPEC	_	INSULATED SLIDING DOOR BY COLDROOM SUPPLIER. WALLPAPER-D APPLIED TO COLDRM SIDE. REFER TO BEER COLDROOM DWGS FOR WALLPAPER FINISH.	
D106	RETAIL TO WAREHOUSE	2-2'-6" x 7'-0" x 1 3/4	‡" В	REFER TO SPEC	REFER TO SPEC	_	F3	METAL	PT. FIN. #20A (SEMI-GLOSS SHEEN ALKYD)	_	IMPACT TRAFFIC DOORS, SEE SPEC SECTION 08 38 19:	
D107	DELETED	_	_	_	_	_	_	_	_	_	_	
D108	UNIV. W/RM	3'-2 x 7'-0" x 1 3/4"	A	НМ	PT FIN. #27	_	F2	НМ	PT FIN. #27	_	SEE MECHANICAL FOR DOOR GRILLE REQUIREMENTS. POWER ASSIST SWING DOOR OPERATOR C/W 2 PUSH BUTTONS (SEE SPECS).	
D109	UNISEX W/RM	3'-2" x 7'-0" x 1 3/4"	А	НМ	PT FIN. #27	_	F2	НМ	PT FIN. #27		SEE MECHANICAL FOR DOOR GRILLE REQUIREMENTS	
D110	JANITOR	3'-2" × 7'-0" × 1 3/4"	А	НМ	PT FIN. #27	_	F2	НМ	PT FIN. #27	3/4 HR.	SEE MECHANICAL FOR DOOR GRILLE REQUIREMENTS	
D111	WAREHOUSE TO EXTERIOR	EXIST.	-		PT FIN.#27 (INT. SIDE)		_	_	PT FIN.#27 (INT. SIDE)	_	EXIST DOOR BY LANDLORD. HARDWARE BY LCBO GC (4 POINT LOCKING SYSTEM, —SEE SPECS). DOOR VIEWER: ML 511 (BY LANDLORD)	
D112	RECEIVING TO EXTERIOR	EXIST.	_	_	_	_	_	_	_	_	EXIST. DOOR BY L.L	
D200	ROOF HATCH	EXIST.	_	_	PT FIN.#14 (INT. SIDE)	_	_	_	PT. TO MATCH WAREHOUSE CLG. FIN.	_	DOOR BY LANDLORD, ALL HARDWARE BY LCBO GC (8" BARREL BOLT LOCKING SYSTEM — SEE SPEC.)	

Door Schedule

GENERAL NOTES

- A. <u>GENERAL</u>
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ALL OTHER CONTRACT DRAWINGS.
- DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- REFER TO THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS AND SLEEVES NOT SHOWN ON THE STRUCTURAL DRAWINGS. HOWEVER, NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING, STABLE AND CAPABLE OF WITHSTANDING THE LOADING NOTED AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION.
- THIS INCLUDES THE ADDITION OF NECESSARY SHORING, TEMPORARY BRACING, GUYS OR TIE-DOWNS. DURING CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT DESIGN LIVE LOADS INDICATED IN THESE NOTES AND ON PLAN IS NOT EXCEEDED. WHERE NECESSARY, THESE LOADS SHALL BE REDUCED UNTIL MATERIALS REACH THEIR SPECIFIED DESIGN STRENGTH.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY.
- DIMENSIONS ARE IN INCHES AND FEET UNLESS NOTED OTHERWISE; ELEVATIONS ARE IN INCHES AND FEET UNLESS NOTED OTHERWISE.
- 8. DO NOT SCALE DRAWINGS.
- B. <u>DESIGN DATA</u>
- 1. CODES AND STANDARDS
 - a. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE (OBC), INCLUDING 2019
 - AMENDMENTS, SUPPLEMENTED BY THE 2015 NATIONAL BUILDING CODE OF CANADA STRUCTURAL COMMENTARY.
- b. ALL STRUCTURAL STEEL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CAN/CSA-S16 LIMIT STATES DESIGN OF STEEL STRUCTURES. c. ALL COLD FORMED STEEL STRUCTURAL MEMBERS HAVE BEEN DESIGNED IN ACCORDANCE WITH CAN/CSA-S136-07 - NORTH AMERICAN SPECIFICATION FOR
- LATERAL LOADS a. THE STRUCTURE HAS BEEN DESIGNED TO RESIST THE LATERAL LOADS DUE TO EARTHQUAKE IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE. THE
- DESIGN PARAMETERS FOR EARTHQUAKE ARE AS NOTED BELOW: THE EARTHQUAKE FORCES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE EQUIVALENT STATIC FORCE PROCEDURE.
- EARTHQUAKE IMPORTANCE FACTOR, BASED ON TABLE 4.1.8.5 OF 2012 OBC, CATEGORY: NORMAL
 - le = 1.0SEISMIC HAZARD PARAMETERS FOR LOCATION: WELLAND

THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

- Sa(0.2) = 0.308, Sa(0.5) = 0.15, Sa(1.0) = 0.069, Sa(2.0) = 0.031 PGA = 0.199 SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE:
- CLASS = DTYPE OF SEISMIC FORCE RESISTING SYSTEM (SFRS): DIAGONAL STRAP CONCENTRICALLY BRACED WALLS (LIMITED DUCTILITY)
- Rd = 1.9, Ro = 1.3FUNDAMENTAL LATERAL PERIOD USED FOR CALCULATIONS To = 0.08 sec
- LIVE LOADS
- a. REFER TO FLOOR PLANS FOR LIVE LOADS. ALL THE VALUES GIVEN ARE UNFACTORED LOADS UNLESS OTHERWISE NOTED OR SHOWN. 4. SERVICEABILITY CRITERIA
- a. TYPICAL HORIZONTAL ELEMENTS (NOT SUPPORTING CLADDING) HAVE BEEN DESIGNED SO THAT THE THEORETICAL DEFLECTIONS WILL NOT EXCEED THE
- b. NON STRUCTURAL ELEMENTS SUCH AS CLADDING, MECHANICAL AND ELECTRICAL SERVICES AND SUPPORTS, AND THE LIKE, MUST BE DESIGNED AND DETAILED TO ACCOMMODATE THE ANTICIPATED MOVEMENTS NOTED ABOVE.
- c. THE BUILDING MOVEMENT SPECIFIED HEREIN SHOULD BE CONSIDERED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK.
- CHEMICAL/ADHESIVE AND MECHANICAL ANCHORS
- CHEMICAL/ADHESIVE ANCHORS SHALL BE HILTI HY-200 MAX ADHESIVE SYSTEM, UNLESS NOTED OTHERWISE.
- MECHANICAL ANCHORS SHALL BE HILTI KB-TZ, UNLESS NOTED OTHERWISE.
- WHERE DETAILS NOTE EPOXY GROUT, USE HILTI HY-200 MAX ADHESIVE SYSTEM.
- 4. ALTERNATIVE ENGINEER APPROVED ANCHOR TYPES ARE PERMITTED. SUBMIT PROPOSED ANCHOR TYPE AND MANUFACTURER'S PUBLISHED DATA INCLUDING LOAD CAPACITY, EDGE DISTANCE REQUIREMENTS AND SPACING REQUIREMENTS FOR APPROVAL PRIOR TO USING ALTERNATIVE ANCHOR.
- INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- 6. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS.
- D. <u>STRUCTURAL STEEL</u>
- ANGLES, PLATES AND CHANNELS (L, C) SHALL CONFORM TO CAN/CSA-G40.20/G40.21 GRADE 300W.
- 2. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO CSA G40.21 350W CLASS "C".
- ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 55 WELDABLE STEEL OR 300W THREADED ROD CONFORMING TO CSA G40.21-M, UNLESS OTHERWISE NOTED OR SHOWN.
- 4. STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325M, NUTS SHALL CONFORM TO ASTM A563M. WASHERS CONFORM TO ASTM F436M.
- 5. NON-SHRINK GROUT SHALL HAVE A 35 MPa (5000 PSI) MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
- 6. NO STRUCTURAL STEEL SHALL BE CUT IN THE FIELD UNLESS REVIEWED AND APPROVED BY THE CONSULTANT.
- 7. ALL WELDS EXPOSED TO VIEW SHALL BE GROUND SMOOTH.
- 8. IT IS THE INTENTION OF THESE DESIGN DOCUMENTS TO DELEGATE THE DESIGN OF ALL STRUCTURAL STEEL CONNECTIONS TO A PROFESSIONAL ENGINEER, LICENSED IN THE PROVINCE OF ONTARIO. THIS REQUIREMENT EXTENDS TO ALL CONNECTIONS, WITH THE EXCEPTION OF THOSE SPECIFICALLY FULLY DESIGNED IN THE DESIGN DOCUMENTS. IT IS ANTICIPATED THAT PROSPECTIVE STRUCTURAL STEEL FABRICATORS WILL PERFORM NECESSARY INVESTIGATION TO DETERMINE THE FULL IMPACT OF CONNECTION CLEARANCE REQUIREMENTS. AS WELL AS THE POTENTIAL NECESSARY INTRODUCTION OF DOUBLER PLATES, CONTINUITY PLATES, AND/OR WEB FLANGE OR OTHER STIFFENERS PRIOR TO SUBMITTING ANY BID FOR THIS WORK.
- PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL CONNECTION DESIGN. SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW.
- 10. FORCES INDICATED ARE FACTORED LOADS UNLESS OTHERWISE NOTED OR SHOWN. SUBSCRIPTS D, L. W AND Q REFER TO DEAD, LIVE, WIND AND EARTHQUAKE LOADS,
- WHERE MOMENT CONNECTIONS ARE CALLED FOR BUT VALUES ARE NOT INDICATED, DESIGN CONNECTIONS FOR FULL MOMENT CAPACITY OF THE SMALLER MEMBER
- 12. SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE MEMBER AT THE POINT OF THE SPLICE. MEMBERS SHALL NOT BE SPLICED AT POINTS OF
- MAXIMUM STRESS. NO SPLICES SHALL BE MADE UNLESS SHOWN ON THE DRAWINGS OR REVIEWED AND APPROVED BY THE CONSULTANT. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED LOAD INCLUDING BEAMS SUPPORTING COLUMNS OR
- RUNNING OVER TOPS OF COLUMNS, UNLESS SHOWN BY DESIGN, THAT STIFFENERS ARE NOT REQUIRED. 14. CONNECT ALL COLUMNS TO THE BASE PLATES FOR THE LARGER OF THE FOLLOWING FORCES IN ADDITION TO OTHER FORCES SHOWN:
- a. AT BRACING FOR THE FACTORED HORIZONTAL COMPONENTS FROM THE BRACING.
- b. FOR 3% OF THE FACTORED VERTICAL COLUMN LOAD APPLIED HORIZONTALLY.
- 15. PROVIDE SLOTTED HOLES AND SLIP-CRITICAL BOLTED CONNECTIONS TO CONNECT NEW STEEL TO EXISTING WORK.
- 16. APPLY FIREPROOFING TO STEEL STRUCTURE CALCULATING THE THICKNESS OF FIREPROOFING BY COMPARING THE ACTUAL MEMBER SIZE TO THE MEMBER SIZE USED IN THE DESIGNATED ULC RATING AND ADJUSTING APPROPRIATELY.
- 17. WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS. THE FABRICATOR'S SHOP DRAWINGS SHALL REFLECT WELDS IN ACCORDANCE WITH CWS REQUIREMENTS.
- 18. FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING.
- 19. TWENTY- FIVE PERCENT OF THE WELDS SHALL BE INSPECTED AT RANDOM UNLESS NOTED OTHERWISE.
- 20. UNLESS NOTED OTHERWISE ON THE DRAWINGS, GROOVE WELDS SHALL BE FULL PENETRATION.
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE DURING THE TENDER TO IDENTIFY ANY INTERFERENCE THAT WOULD PREVENT THE INSTALLATIONS OF THE NEW STRUCTURAL STEEL. ANY INTERFERENCE SHALL TO BE RELOCATED AS REQUIRED SO AS TO PERMIT REINFORCEMENT OF THE STRUCTURAL STEEL. CONTRACTOR SHALL CONSULT MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE REQUIREMENTS PRIOR TO RELOCATING ANY
- INTERFERENCES. STRUCTURAL COLD-FORMED STEEL
- 1. ALL LIGHT GAUGE COLD-FORMED STEEL SHALL HAVE A MINIMUM ZINC COATED (GALVANIZED) BY THE HOT-DIP PROCESS IN ACCORDANCE WITH A653/653M.
- 2. ALL LIGHT GAUGE COLD-FORMED STEEL SHALL BE FROM BAILEY METAL PRODUCTS OR APPROVED EQUIVALENT. 3. SUBMIT PROPOSED LIGHT GAUGE COLD-FORMED STEEL MANUFACTURERS DATA AND LOAD TABLES FOR REVIEW.
- 4. ALL LIGHTWEIGHT STEEL MATERIAL 0.0451" (1.146mm) OR THINNER SHALL CONFORM TO ASTM A653/653M GRADE A, 33KSI (227 MPa) MINIMUM YIELD. ALL SHEET STEEL MATERIAL 0.0566" (1.438mm) OR THICKER SHALL CONFORM TO ASTM A653/653M GRADE D, 50 KSI (345 MPa) MINIMUM YIELD. ALL STUDS AND JOISTS SHALL HAVE LIPPED FLANGE.
- ATTACHMENTS, CLOSURES, HARDWARE, ETC., SHALL BE AS SHOWN AND/OR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- 6. TOLERANCES TO COMPLY WITH ASTM C955.
- WELDING TO COMPLY WITH COLD-FORMED STEEL ENGINEERS INSTITUTE TECH NOTE 5606-1- WELDING COLD-FORMED STEEL.
- 8. REPAIR DAMAGED OR UNCOATED GALVANIZED COATINGS PER ASTM A780. 5401 LOAD BEARING COLD-FORMED STEEL (CFS) WALL SYSTEM. 9. STEEL STUDS, JOISTS, LINTELS, AND RUNNER TRACK MEMBERS SHALL BE OF TYPE SHOWN ON THE DRAWINGS AND SPECIFICATIONS CONFORMING TO ASTM A-446
- 10. STEEL RUNNER TRACK SHALL BE FORMED WITH MATERIAL MEETING REQUIREMENTS OF ASTM A-446 GRADE A.
- 11. FRAMING MEMBERS SHALL BE CUT SQUARELY OR AT AN ANGLE AS REQUIRED TO FIT SQUARELY AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN
- PLACE UNTIL PROPERLY JOINED. 12. JOINING OF STRUCTURAL MEMBERS SHALL BE MADE WITH SELF-DRILLING SCREWS OR WELDING.
- 13. WIRE TYING OF FRAMING MEMBERS IN STRUCTURAL APPLICATIONS SHALL NOT BE PERMITTED.
- 14. ATTACHMENT OF COLLATERAL MATERIALS TO STEEL MEMBERS SHALL BE MADE WITH SELF DRILLING SCREWS OR HARDENED SCREW SHANK NAILS.
- 15. STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM RUNNER TRACK WITH FIRM ABUTMENT AGAINST TRACK WEBS. STUDS SHALL BE ALIGNED OR PLUMBED AND SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND BOTTOM RUNNER TRACK.
- 16. BRIDGING TO BE SUPPLIED AND INSTALLED PER CFS STUD MANUFACTURER RECOMMENDATIONS.
- 17. LOAD BEARING CFS WALL SYSTEM SHALL BE DESIGNED FOR LATERAL SUPPORT AT EACH FLOOR OR HORIZONTAL MULLION ONLY AND GRAVITY SUPPORT ONLY AT
- 18. CONTRACTOR TO SITE VERIFY THE BUILT UP BEAM/FLOOR JOIST SIZE PRIOR TO ORDERING THE STEEL STUD CONNECTOR.
- 1. THE CONFIGURATION OF THE RAILING SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. 2. SUBMIT SIGNED AND SEALED SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
- 1. THE CONFIGURATION OF THE STEEL STAIR SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. 2. SUBMIT SIGNED AND SEALED SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
- H. <u>ALTERATIONS AND/OR CONNECTIONS TO EXISTING STRUCTURE</u>
- INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM THE FOLLOWING DRAWINGS: PREPARED FOR: BUILDING E EXPANSION (FURTURE LCBO) - 102 PRIMEWAY DRIVE, BLD E3, WELLAND, ON PREPARED BY: GRAVITY ENGINEERING

- ENTITLED: FOUNDATION PLAN
 - DATED: APRIL 6, 2020 CHECK ALL DRAWINGS AGAINST ACTUAL CONDITIONS ON SITE PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE

 - CONTRACTORS SCHEDULE OF WORK SHALL BE COORDINATED WITH ALL SUBTRADES, THE CONSULTANT AND OWNER.
 - PRIOR TO FABRICATION OF STRUCTURAL STEEL, OPEN UP ALL AREAS TO ALLOW THE INSTALLATION OF THE NEW STRUCTURAL WORK, AS WELL AS THE CONNECTION OF NEW WORK TO THE EXISTING WORK. TAKE ANY AND ALL NECESSARY FIELD MEASUREMENTS. MODIFY INSTALLATION METHODS AND METHODS FOR CONNECTING TO SUIT SITE CONDITIONS FOUND AND TO THE APPROVAL OF THE CONSULTANT. CARRY OUT LOCAL REPAIRS TO THE EXISTING WORK AS NECESSARY AND AS DIRECTED
 - BY THE CONSULTANT. 5. SHORE EXISTING WORK AS REQUIRED UNTIL ALL NEW WORK HAS BEEN COMPLETED AND REVIEWED BY THE CONSULTANT.
 - DO NOT CUT CONCRETE REINFORCEMENT UNLESS REVIEWED AND APPROVED BY THE CONSULTANT. MODIFY THE LAYOUT OF NEW THROUGH BOLTS, EXPANSION ANCHORS AND OTHER ANCHORING DEVICES REQUIRED TO AVOID EXISTING CONCRETE REINFORCEMENT.
 - FIRE RESISTANCE RATING
 - 1. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE RESISTANCE RATINGS AND ANY SPRAY FIREPROOFING OF OTHER MEASURES REQUIRED TO ACHIEVE SPECIFIED FIRE RATING.
 - 1. STRUCTURAL CONSULTANT WILL PROVIDE PERIODIC FIELD REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORKS DETAILED ON THESE DRAWINGS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS. THESE REVIEWS DO NOT REPLACE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND MAINTAIN A QUALITY
 - CONTROL PROGRAM, AND DO NOT MAKE WSP-S CANADA INC. A GUARANTOR OF THE CONTRACTOR'S WORK. ASSIST THE CONSULTANTS DOING FIELD REVIEW, AND PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED.
 - 3. CHECK THE WORK PRIOR TO FIELD REVIEW TO CONFIRM IT IS COMPLETED AND IN ACCORDANCE WITH CONTRACT DOCUMENTS. 4. NOTIFY THE CONSULTANT 48 HOURS PRIOR TO COVERING UP THE STRUCTURE WITH FINISHES.

TABLE 1 - DEFLECTION LIMITS									
CONSTRUCTION	LIVE	DEAD + LIVE							
FLOOR MEMBERS	1 / 360	1 / 240							

LIGHT GAUGE COLD-FORMED STEEL FRAMING SCHEDULE										
	STEEL STU	D WALL								
WALL	STEEL STUD SIZE	TOP TRACK	BOTTOM TRACK							
W1	362S162-43 @ 16°C/C	362T150-43	362T150-43							
W2	362S162-54 @ 16"C/C	362T200-54	362T200-54							

- PROVIDE 2#12 SCREWS FROM STUD TO TOP TRACK AT EACH STUD. PROVIDE 2#12 SCREWS FROM STUD TO BOTTOM TRACK AT EACH STUD.
- REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHTS OF STUD WALLS.
- 5. ALL WALLS TO HAVE MIN. OF 2 LINES OF CHANNEL BRIDGING, MAXIMUM SPACING AT 4'-0" C/C (INCLUDE POST). REFER TO <u>B/S4</u> FOR BRIDGING SPLICE DETAIL. PROVIDE SOLID BLOCKING AT THE END BAY AS SHOWN.
- 1. X-BRACING: AS DENOTED ON PLAN, PROVIDE CONTINUOUS TENSION ONLY FLAT STRAP 3"x16 GA. AT BOTH SIDES OF
- THE WALL, SECURE STRAP TO EACH STUD WITH 2-#12 SCREWS. DO NOT SPLICE. 5. SEE DETAIL <u>C/S4</u> FOR STEEL STUD WALL AT INTERSECTION OR CONNER.

	BUILT UP POST									
BUILT UP POST	SIZE		FASTENERS							
P1	2-362S162-54+2-362T150-54		FASTEN TOGETHER WITH #10 SCREWS @ 8" C/C AS SHOWN, ORIENTATION SHOWN ON PLAN							
WALL OPENING										

WALL OF LINE	
LINTEL-1	JAMB POST (JP1)
2-362S162-54+2-362T150-54	3-362S162-54+2-362T150-54
FASTEN TOGETHER WITH #10 SCREWS @ 8" C/C AS SHOWN, ORIENTATION SHOWN ON PLAN	FASTEN TOGETHER WITH #10 SCREWS @ 8" C/C AS SHOWN, ORIENTATION SHOWN ON PLAN

REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT AND LENGTHS.

2. REFER TO SECTION 5/S4 FOR CONNECTION DETAIL AT WALL OPENING.

FLOOR SYSTEM

	FLOOR SHEATHING	
FLOOR SHEATHING	SIZE	REMARKS
FD1	5/8" THICKNESS PLYWOOD (STRUCTURAL I PANEL)	FASTENER: ATTACH TO STEEL STUD JOIST WITH #10 SCREWS @ 6" C/C AROUND PANEL EDGES/WALL AND 12" C/C AT CENTER

	FLOOR JOIST	
FLOOR JOIST	SIZE	REMARKS
FJ1	800S162-68 @ 16"C/C	PROVIDE WEB STIFFENER AT EACH BEARING END, CONNECT TO RIM TRACK/BEAM W/ SSC6.25(MAX) STEEL STUD CONNECTOR BY SIMPSON STRONG-TIE OR EQUIVALENT
FJ2	800S162-68 @ 97"C/C	PROVIDE WEB STIFFENER AT EACH BEARING END, CONNECT TO RIM TRACK/BEAM W/ SSC6.25(MAX) STEEL STUD CONNECTOR BY SIMPSON STRONG-TIE OR FOLIVALENT

FLOOR BRIDGING/STRAP/SOLID BLOCKING

PROVIDE 2 ROW 2"x18 GA. FLAT STRAP, TOP AND BOTTOM, FASTEN WITH 2-#12 SCREWS AT EACH INTERSECTION PROVIDE 2 ROWS CHANNEL BRIDGING, FASTEN TO EACH STUD WITH 4-#10 SCREWS AND BRIDGING CLIP ANGLE PROVIDE SOLID BLOCKING: FILED CUT TRACK, THICKNESS TO MATCH STEEL STUD JOIST, LOCATE AT LAST TWO JOIST BAYS EACH SIDE. ADD SOLID BLOCKING AROUND PERIMETER @ 12" C/C

	BUILT UP BEAM	
BUILT UP BEAM	SIZE	FASTENERS
BM1	2-800S162-68+2-362T150-54	FASTEN TOGETHER WITH #10 SCREWS @ 8" C/C AS SHOWN, ORIENTATION SHOWN ON PLAN

ADD'L AI AEC AI	ABUTMENT ADDITIONAL	DW					
AEC AI		011	DRAWING	ℓd	TENSION DEVELOPMENT LENGTH OF REBAR	SPEC	SPECIFICATIONS
	LOCUSTRATION IN CONTRACTOR ACCUSED.	DWL	DOWEL	ℓdc	COMPRESSION DEVELOPMENT LENGTH OF REBAR	SPF	SPRUCE PINE FIR
AESS A	ARCHITECTURALLY EXPOSED CONCRETE	EA	EACH	{dh	TENSION EMBEDMENT LENGTH WITH STANDARD HOOK	SR	STUD RAIL
	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	ECR	EPOXY COATED REINFORCEMENT	LE	LEFT END	SS	STAINLESS STEEL
AIFB A	ASPHALT IMPREGNATED FIBERBOARD	EBF	ECCENTRICALLY BRACED FRAME	LG	LONG	ST	STRAIGHT
ALT A	ALTERNATE	EE	EACH END	LL	LOWER LEVEL	STD	STANDARD
	ARCHITECTURAL	EF	EACH FACE	LLH	LONG LEG HORIZONTAL	STE	SHEAR TRANSFER ELEMENTS
	ANCHOR ROD	EJ, EXP JT	EXPANSION JOINT	LLV	LONG LEG VERTICAL	STG	STAGGERED
	ASPHALT	ELECT	ELECTRICAL	LONG	LONGITUDINAL	STIR	STIRRUP
	AVERAGE	EL	ELEVATION	LSH	LONG SIDE HORIZONTAL	STIFF	STIFFENER
-,	BOTTOM	ELEV	ELEVATOR	LP	LOW POINT	STL	STEEL
	BOTTOM OF FOOTING	EMBED	EMBEDMENT	LWT	LIGHT WEIGHT	STR	SEISMIC STRAP
	BOTTOM OF PILE	ENG	ENGINEER	MAX	MAXIMUM	STRUCT	STRUCTURAL
	BOTTOM CHORD EXTENSION	EOD	EDGE OF DECK	MC	MOMENT CONNECTION (—)	SWT	SELF WEIGHT
	BORED CONCRETE PILE	EOS	EDGE OF SLAB	MECH	MECHANICAL	SYMM	SYMMETRICAL
(F) (F) (F)	BOTTOM EACH WAY	ES EQ	EACH SIDE EQUAL	MEZZ MF	MEZZANINE MOMENT FRAME	L TD	THICKNESS TRANSFER BEAM
	BOTTOM LOWER LAYER BASE PLATE	EW	EQUAL EACH WAY	MIN	MOMENT FRAME MINIMUM	TB TBB	
	BASE PLATE BEARING	EX. EXIST	EXISTING	MISC	MISCELLANEOUS	T	TOP BASIC BARS TOP
	BEARING PLATE	EX, EXIST	EXTERIOR	MISC	MOVEMENT JOINT	TDL	TENSION DEVELOPMENT LENGTH
	BASEMENT	FC	FUTURE COLUMN	ML	MIDDLE LAYER	TEW	TOP EACH WAY
	BOTTOM UPPER LAYER	FD	FLOOR DRAIN	NF.	NEAR FACE	T&G	TONGUE AND GROOVE
	BOTTOM OF UNDERPINNING	FF	FAR FACE	NIC	NOT IN CONTRACT	TJ	TIE JOIST
	CAMBER	FIN	FINISHED	NOM	NOMINAL	TLL	TOP LOWER LAYER
	COLUMN ABOVE ONLY (NO COLUMN BELOW)	FL	FLOOR	NTS	NOT TO SCALE	T/O	TOP OF
	CANTILEVER	FMC	FULL MOMENT CONNECTION (FOR FULL MOMENT CAPACITY)	O/C	ON CENTER	TOB	TOP OF (GRADE) BEAM
30.0000	CATEGORY (FOR AESS)	FND	FOUNDATION	OD	OUTSIDE DIAMETER	TOC	TOP OF CONCRETE
	COLUMN BELOW ONLY (NO COLUMN ABOVE)	FTG	FOOTING	OF	OUTSIDE FACE	TOF	TOP OF FOOTING
	COMPRESSION DEVELOPMENT LENGTH	GA	GAUGE	OPP	OPPOSITE	TOS	TOP OF STEEL
CEL C	CUT OFF ELEVATION FOR PILES	GALV	GALVANIZED	OWSJ	OPEN WEB STEEL JOIST	TOP	TOP OF PILE
CIP C	CAST-IN PLACE	GB	GRADE BEAM	PAF	POWDER ACTUATED FASTENERS	TOW	TOP OF WALL
CJ C	CONTROL JOINT	GEN	GENERAL	PL	PLATE	TPC	TOP OF PILE CAP
	CLEAR	GL	GRIDLINE	PROJ	PROJECT, PROJECTION	TRANS	TRANSVERSE
	CENTRELINE	GRD	GROUND	PS	PIPE SUPPORT	TSA	TENSION SPLICE "A"
	CONCRETE MASONRY UNITS	h	TOTAL THICKNESS, SLAB THICKNESS AWAY FROM DROP PANEL	PT	POST TENSIONED	TSB	TENSION SPLICE "B"
	STEEL DECK CORE NOMINAL THICKNESS	hd	SLAB OVERALL THICKNESS AT DROP PANEL	PTL	PRESSURE TREATED LUMBER	TUL	TOP UPPER LAYER
	COMPOSITE	H, HORIZ	HORIZONTAL	R	RADIUS	TYP	TYPICAL
	COLUMN	(H)	HIGH BEAM	RA	ROOF ANCHOR	U-BAR	"U" SHAPED BAR
	CONCRETE	HC	HOLLOWCORE	RD	ROOF DRAIN	UDB	UNIFORMLY DISTRIBUTED BARS
	CONTINUOUS	HD	HOLD DOWN	RE	RIGHT END	U/F	UNDERSIDE OF FOOTING
	CONTINUED	HDG HEF	HOT DIPPED GALVANIZED	REINF REM	REINFORCEMENT	UL	UPPER LEVEL
	CONSTRUCTION JOINT CONNECTION PLATE	HEF	HORIZONTAL EACH FACE HORIZONTAL INSIDE FACE	REQ'D	REMAINDER REQUIRED	ULS U/S	ULTIMATE LIMIT STATE UNDERSIDE
	CAP PLATE	HH	HOOK EACH END	REV	REVISION	U/N, UNO	UNLESS NOTED OTHERWISE
	COMPRESSION LAP SPLICE	HIC	HORIZONTAL IN CENTRE	RF.	RIGID FRAME	UPT	UPTURNED
	CLEAR COVER	HOF	HORIZONTAL OUTSIDE FACE	RL	REFERENCE LINE	V. VERT	VERTICAL, VERTICALS
	COMPLETE WITH, CONNECT WITH	HP	HIGH POINT	RSS	RETAINED SOIL SYSTEM	V, VERI	VERTICAL, VERTICALS VERTICAL BRACING
	(SEE TO GENERAL NOTES)	HSC	HORIZONTAL SLOTTED CONNECTION	RTU	ROOF TOP UNIT	VEF	VERTICAL BACH FACE
1	(SEE TO GENERAL NOTES)	IBI	INTEGRITY BARS INTERIOR		RETAINING WALL	VIF	VERTICAL INSIDE FACE
	DRILLED CONCRETE ANCHOR, SEE GENERAL NOTES	IBE	INTEGRITY BARS EXTERIOR	R/W	REINFORCE WITH	VIC	VERTICAL IN CENTRE
	DEMOLITION	IBA	INTEGRITY BARS ADDED	r.w.	REQUIRED WITH	VOF	VERTICAL OUTSIDE FACE
	DETAIL	IBB	INTEGRITY BOTTOM BARS (THROUGHOUT)	SDF	STEP DOWN FOOTING (IN DIRECTION OF ARROW)	VSC	VERTICALLY SLOTTED CONNECTIO
	DOUGLAS FIR-LARCH	ID	INSIDE DIAMETER	SEC	SECTION	WB	WALL BELOW
	DIAMETER	INT	INTERIOR	SIM	SIMILAR	WC	WIND COLUMN
DIV D	DIVIDER BEAM	IF	INSIDE FACE	SJ	STEEL JOIST	w/o	WITHOUT
	DRILLED MASONRY ANCHOR, SEE GENERAL NOTES	JG	JOIST GIRDER	SL	SLAB, SHELF ANGLE	WP	WORK POINT
∼ DN D	DOWN	KB	KNEE BRACING	SLBB	SHORT LEG BACK TO BACK	WSP-S	WSP STRUCTURAL
	DOUBLE NUT AND WASHER	(L)	LOW BEAM	SLS	SERVICEABILITY LIMIT STATE	WWF	WELDED WIRE FABRIC
뷬 DP D	DEEP	2-L	BACK TO BACK ANGLES	SOG	SLAB-ON-GRADE	ZRP	ZINC RICH PAINT

REQUIRED DOCUMENTATION FOR SUBSTANTIAL PERFORMANCE AND FINAL GENERAL CONFORMANCE LETTERS-LCBO

- STRUCTURAL STEEL SHOP DRAWING FOR IMPACT DOOR SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
- STRUCTURAL STEEL SHOP DRAWINGS FOR STAIR AND RAILING SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.



IBI GROUP

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General Notes:

ALL DIMENSIONS IN IMPERIAL . VERIFY ALL DIMENSIONS.

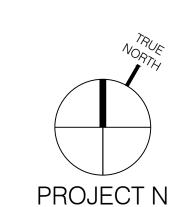
. DO NOT SCALE DRAWINGS. CHECK DRAWINGS AGAINST SPECIFICATIONS.

. USE THE LATEST REVISED DRAWINGS ONLY. . REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SCHEDULES

DISCOVERED ERRORS, OR OMISSIONS, TO THE ARCHITECT AND LCBO DURING TENDER PERIOD AND BEFORE PROCEEDING WITH ANY WORK. . DRAWINGS AND SPECIFICATIONS ARE THE

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PROPERTY OF THE ARCHITECT, AND MUST BE



Sept 10, 2020 ISSUED FOR TENDER July 31, 2020 ISSUED FOR PERMIT AND TENDER WSF July 16, 2020 ISSUED FOR 90% REVIEW July 7, 2020 ISSUED FOR 60% REVIEW

ISSUED FOR TENDER

Sept 10, 2020

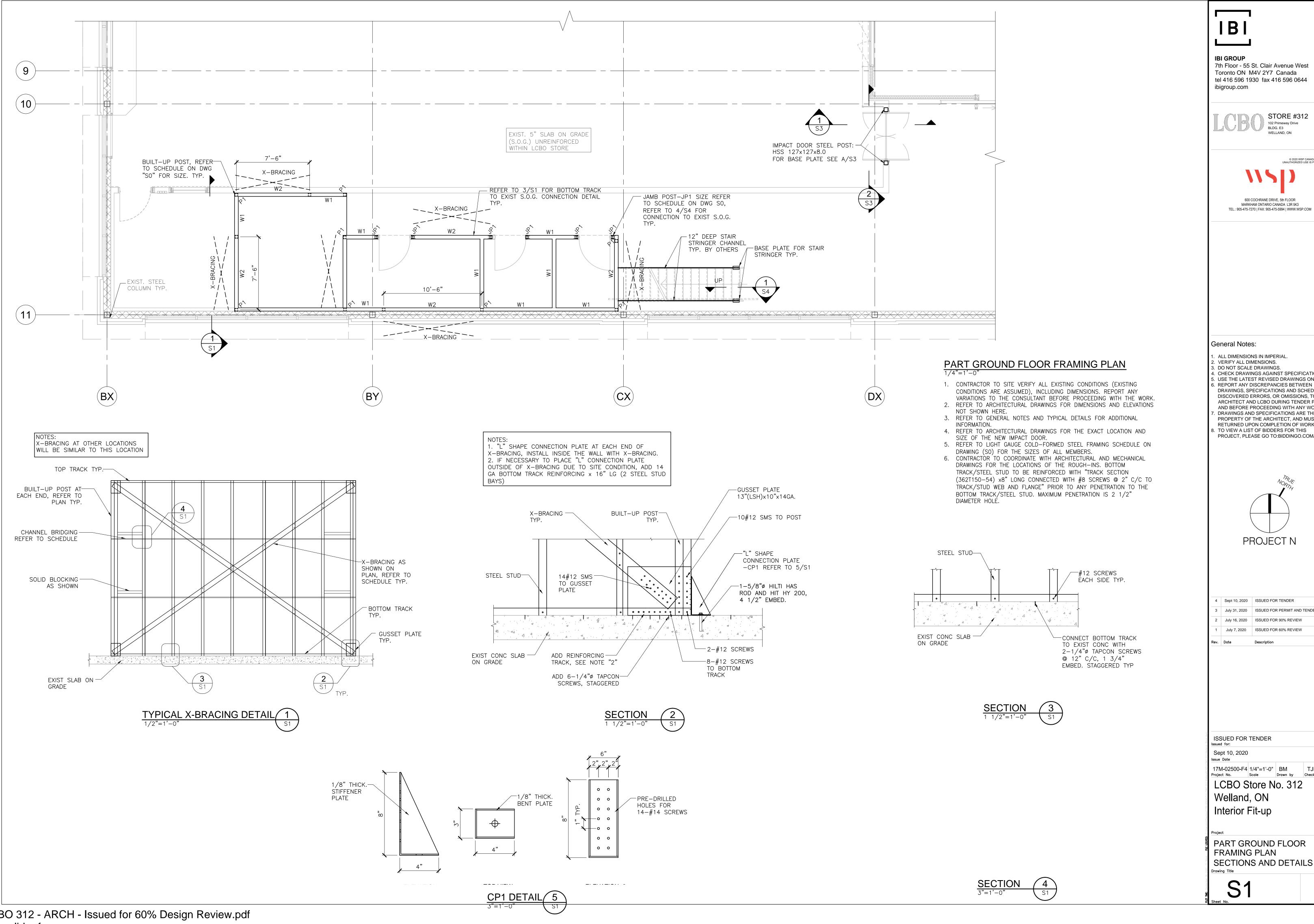
Project No. Scale Drawn by Checked by LCBO Store No. 312 Welland, ON

Interior Fit-up

17M-02500-F4 N.T.S. BM

GENERAL NOTES AND ABBREVIATIONS

awing Title

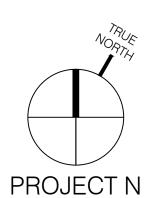


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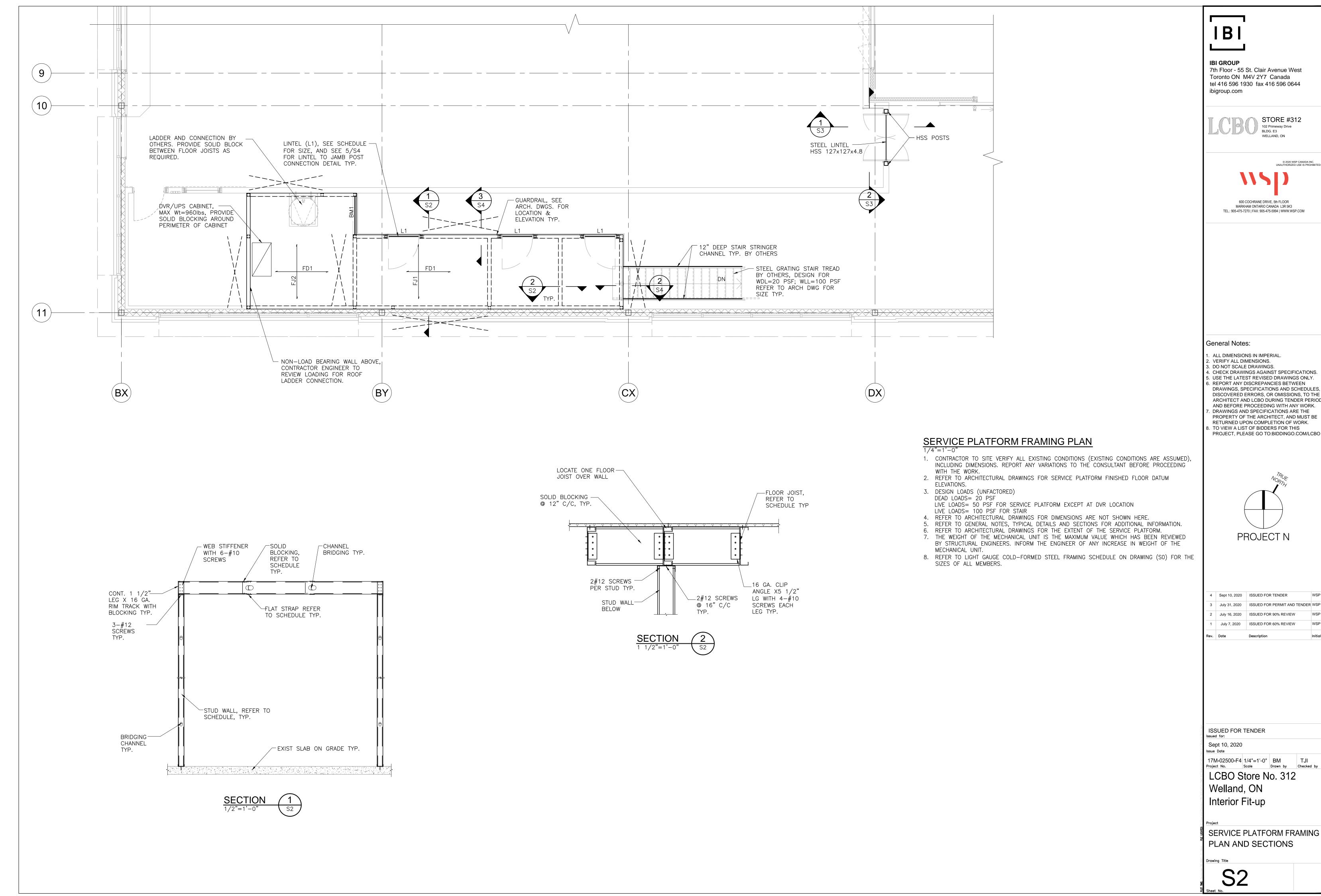
Rev.	Date	Description	Initial
1	July 7, 2020	ISSUED FOR 60% REVIEW	WSP
2	July 16, 2020	ISSUED FOR 90% REVIEW	WSP
3	July 31, 2020	ISSUED FOR PERMIT AND TENDER	WSP
4	Sept 10, 2020	ISSUED FOR TENDER	WSP

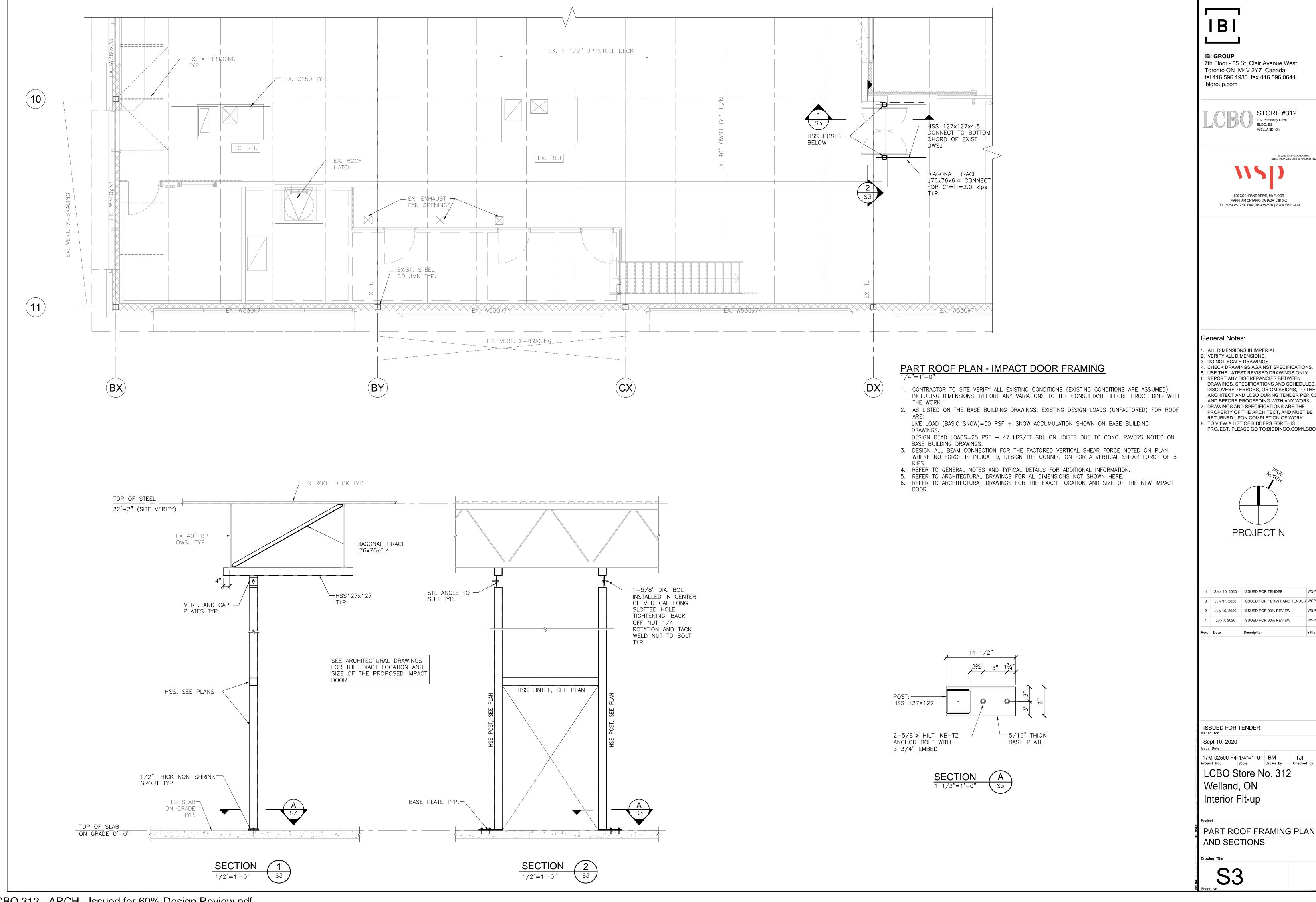
ISSUED FOR TENDER Issued for:

17M-02500-F4 1/4"=1'-0" BM TJI
Project No. Scale Drawn by Checked by LCBO Store No. 312

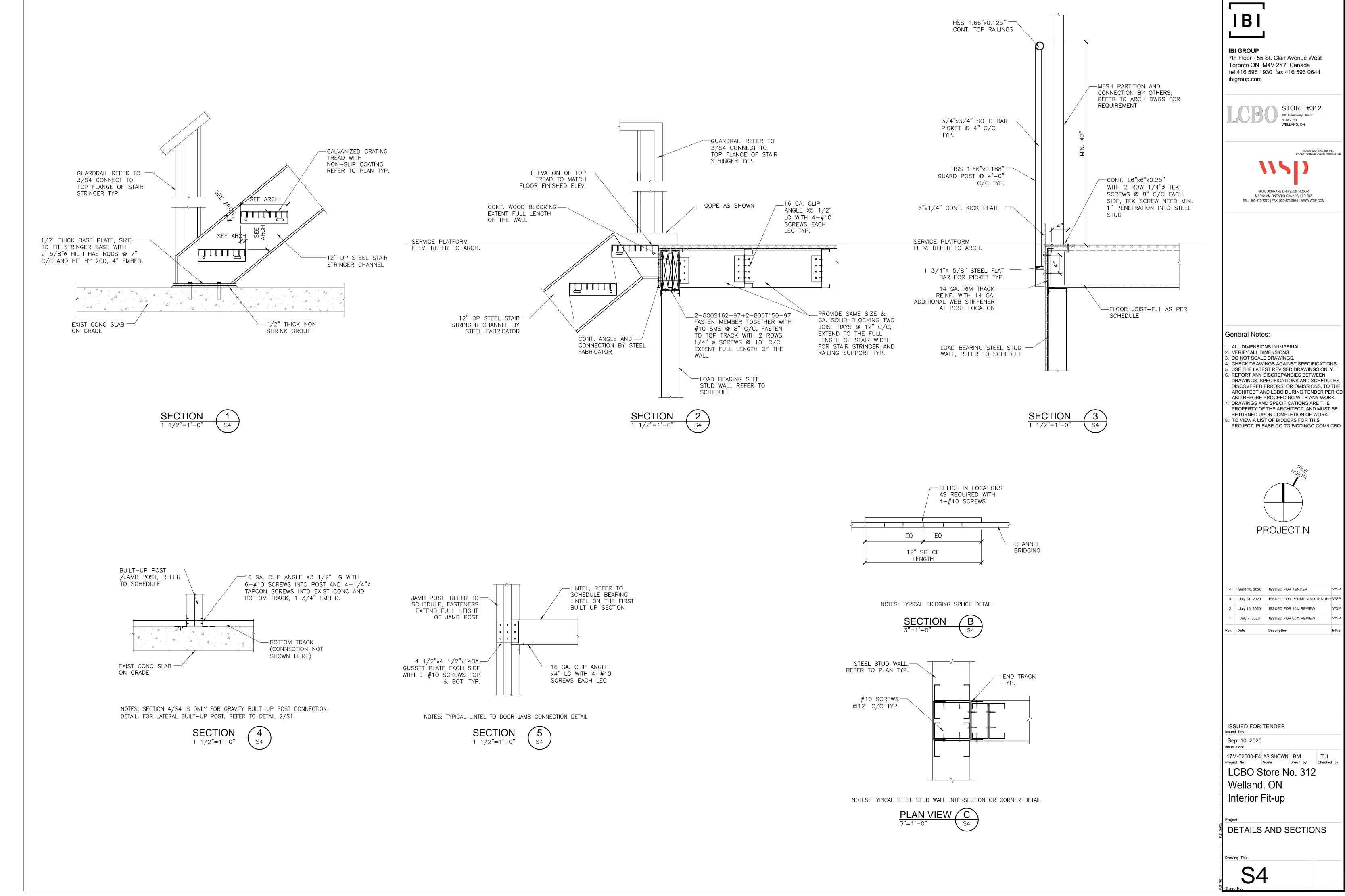
Welland, ON Interior Fit-up

PART GROUND FLOOR FRAMING PLAN **SECTIONS AND DETAILS**





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					TOP UNITS											
EQUIPMENT TAG	AREA SERVED	LOCATION	HEATING MEDIUM	MANUFAC- -TURER	MODEL	AIR FLOW	DEMAND CONTROL MIN/MAX OA FLOW	E.S.P	FAN MOTOR (hp)	ENSIBLE TOT	AL HEATI	NG HEATING T OUTPUT	POWER SUPPLY	WEIGHT	MCA EER	DESCRIPTION
RTU-1	LCBO OFFICE	ROOF	GAS	LENNOX	KGB024S4E	800 CFM	200 CFM/200 CFM	0.5 in-wg	0.33	17949 240 Btu/h Btu	00 6500 /h Btu/f	53000 Btu/h	208 V/1P/60 Hz	z 780 lb	19 A 12.5	EXISTING ROOF TOP UNIT C/W BELOW MENTIONED SYSTEM OPTIONS. FACTORY INSTALLED: STAINLESS STEEL HEAT EXCHANGER, ENVIRON CONDENSER COIL SYSTEM, TUBE AND FIN EVAPORATOR COIL, SENSIBLE ECONOMIZER C/W HOOD, HIGH PERFORMANCE ECONOMIZER, BAROMETRIC RELIEF C/W HOOD, LOW NOX, DIRECT DRIVE CONSTANT AIR VOLUME, HINGED ACCESS PANELS, 20A GFI RATED UTILITY OUTLET, FACTORY DISCONNECT, 2 IN MERV4 FILTER. FIELD INSTALLED: 2 IN MERV8 FILTER (DURING CONSTRUCTION), 2 IN MERV13 FILTER (AFTER CONSTRUCTION), 18" ROOF CURB, BURGLAR BARS, COPPER DRAIN TRAP, COIL GUARDS, LOW-AMBIENT CONTROLS (-40 DEG C), GFCI COVER, PROVIDE HONEYWELL COMMERCIAL VISION PRO 8000 THERMOSTAT. UNIT TO BE C/W 100 FT OF PLENUM RATED CABLE. LCBO STICKER AFFIXED ON EACH UNIT TO ENSURE COMPLIANCE TO LCBO SPECIFICATIONS.
RTU-2	LCBO RETAIL	ROOF	GAS	LENNOX	LGH092H4M	3000 CFM	305 CFM/590 CFM	0.5 in-wg	3	63984 900 Btu/h Btu	00 18000 /h Btu/h	0 144000 Btu/h	575 V/3P/60 Hz	z 1421 lb	16 A 12.5	EXISTING ROOF TOP UNIT C/W BELOW MENTIONED SYSTEM OPTIONS. FACTORY INSTALLED: STAINLESS STEEL HEAT EXCHANGER, HUMIDTROL, TUBE AND FIN COIL, SENSIBLE ECONOMIZER C/W HOOD, HIGH PERFORMANCE ECONOMIZER, BAROMETRIC RELIEF C/W HOOD, LOW AMBIENT CONTROL, MSAV(FOR UNITS 7.5 TON & ABOVE), PRODIGY M2 BACNET MODULE, PHASE MONITOR, HINGED ACCESS PANELS, 20A GFI RATED UTILITY OUTLET, FACTORY DISCONNECT, STANDARD CAP. FIELD INSTALLED: 2 IN MERV8 FILTER (DURING CONSTRUCTION), 2 IN MERV13 FILTER (AFTER CONSTRUCTION), 18" ROOF CURB, BURGLAR BARS, COPPER DRAIN TRAP, COIL GUARDS, COMBINED WHITE CO2 & TEMPERATURE SENSOR, WHITE HUMIDITY SENSOR, GFCI COVER. UNIT TO BE C/W 100 FT OF PLENUM RATED CABLE. LCBO STICKER AFFIXED ON EACH UNIT TO ENSURE COMPLIANCE TO LCBO SPECIFICATIONS.
RTU-3	LCBO RETAIL	ROOF	GAS	LENNOX	LGH092H4M	3000 CFM	305 CFM/590 CFM	0.5 in-wg	3	63984 900 Btu/h Btu	00 18000 /h Btu/h	0 144000 Btu/h	575 V/3P/60 Hz	z 1421 lb	16 A 12.5	EXISTING ROOF TOP UNIT C/W BELOW MENTIONED SYSTEM OPTIONS. FACTORY INSTALLED: STAINLESS STEEL HEAT EXCHANGER, HUMIDTROL, TUBE AND FIN COIL, SENSIBLE ECONOMIZER C/W HOOD, HIGH PERFORMANCE ECONOMIZER, BAROMETRIC RELIEF C/W HOOD, LOW AMBIENT CONTROL, MSAV(FOR UNITS 7.5 TON & ABOVE), PRODIGY M2 BACNET MODULE, PHASE MONITOR, HINGED ACCESS PANELS, 20A GFI RATED UTILITY OUTLET, FACTORY DISCONNECT, STANDARD CAP. FIELD INSTALLED: 2 IN MERV8 FILTER (DURING CONSTRUCTION), 2 IN MERV13 FILTER (AFTER CONSTRUCTION), 18" ROOF CURB, BURGLAR BARS, COPPER DRAIN TRAP, COIL GUARDS, COMBINED WHITE CO2 & TEMPERATURE SENSOR, WHITE HUMIDITY SENSOR, GFCI COVER. UNIT TO BE C/W 100 FT OF PLENUM RATED CABLE. LCBO STICKER AFFIXED ON EACH UNIT TO ENSURE COMPLIANCE TO LCBO SPECIFICATIONS.
RTU-4	LCBO RETAIL	ROOF	GAS	LENNOX	LGH074H4T	2400 CFM	300 CFM/300 CFM	0.5 in-wg	2	56010 690 Btu/h Btu	00 10800 /h Btu/h	0 86000 Btu/h	575 V/3P/60 Hz	z 1020 lb	12 A 12	EXISTING ROOF TOP UNIT C/W BELOW MENTIONED SYSTEM OPTIONS. FACTORY INSTALLED: STAINLESS STEEL HEAT EXCHANGER, HUMIDTROL, TUBE AND FIN COIL, SENSIBLE ECONOMIZER C/W HOOD, HIGH PERFORMANCE ECONOMIZER, BAROMETRIC RELIEF C/W HOOD, LOW AMBIENT CONTROL, MSAV(FOR UNITS 7.5 TON & ABOVE), PRODIGY M2 BACNET MODULE, PHASE MONITOR, HINGED ACCESS PANELS, 20A GFI RATED UTILITY OUTLET, FACTORY DISCONNECT, STANDARD CAP. FIELD INSTALLED: 2 IN MISTRE OF A TEMPERATURE OF THE MISTRE OF THE

	MECHANICAL LEGEND								
SYMBOL	DESCRIPTION								
	SQUARE CONE DIFFUSER								
	LINEAR SLOT DIFFUSER								
\bigcirc	ROUND CONE DIFFUSER								
	RETURN AIR GRILLE								
	SUPPLY FAN								
O	ROOF MOUTED EXHAUST FAN								
† †	UNIT HEATER								
	SUPPLY DUCT DOWN								
	RETURN/EXHAUST DUCT DOWN								
	SUPPLY DUCT UP								
	RETURN/EXHAUST DUCT UP								
Ts	TEMPERATURE SENSOR								
T	THERMOSTAT								
Rh	HUMIDISTAT								
@	CO2 SENSOR								
r /	CONTROL WIRING								
¬ BD	BALANCING DAMPER								
¬SD	SPLITTER DAMPER								
FD	FIRE DAMPER								
	ACOUSTICALLY LINED DUCT								
	EXTERNALLY INSULATED DUCT								
Ţ	BASEBOARD HEATER								
FE	FIRE EXTINGUISHER								
\bigcirc	SPRINKLER HEAD - PENDANT								
•	SPRINKLER HEAD - CONCEALED								
\bigcirc	SPRINKLER HEAD - SEMI RECESSED								
\otimes	SPRINKLER HEAD - UPRIGHT								
FHC	FIRE HOSE CABINET								
——F——	FIRE PIPING								
—-с—	CONDENSATE PIPING								
— — SAN— —	BELOW GRADE SANITARY								
— —ST— —	BELOW GRADE STORM								
	VENT PIPING								
——G——	GAS PIPING								
	ı								

	MECHANICAL LEGEND											SCHE	EDULE OF	FANS					
SYMBOL	DESCRIPTION		T AREA	WEIGHT	SERVICE	MANUFACTUR	RER FAN TYPE	MODEL	AIR	E.S.P	FAN	FAN	POWER SUPPLY						
	POLITOTIO COLD WATER RIPHIO	ID	SERVED					NUMBER	FLOW		RPM	(HP)	(V/Ph/Hz)						
	DOMESTIC COLD WATER PIPING																		
	DOMESTIC HOT WATER PIPING	CF-1, CF-2, CF-3	WAREHOUSE	18 lb RE-	-CIRCULATION	PLEASANTAIF	RE CEILING MOUNTED	CP-56 C&P			310	1	120 V/ 1P/ 60	Hz SPEED CONTROLLERS. CONTRACTOR CONTROLLER. LINE VOLTAGE TO F	TOR TO SUPPLY FAN AND CONTRO	AND INSTALL RE- OLLER, INSTALLA	CIRCULATION FANS TION OF SPEED CO	S AND SUPPL'	/ VARIABLE SPEED
——————————————————————————————————————	CLEAN OUT (END OF PIPE)													PROVIDE NEW ROOF MOUNTED EX	XHAUST FAN c/w	INTERNAL NEMA	3R DISCONNECT, B		
-Ø-	WATER METER	EF-1	STAFF ROOM	61 lb	EXHAUST	TWINCITY	ROOF MOUNTED	BCRD 070E	D 150 CFM	0.375 in-wg	1375	1/4 1	120 V/ 1P/ 60	TIMER IN STAFF ROOM WITH LCBC WHITE COLOUR c/w WHITE WALL F	COORDINATOR PLATE. COORDIN.	. TIMER SHALL BE ATE WITH ARCHIT	AIR KING TIMER SY ECT AND LCBO FO	WITCH MODEI R EXACT COL	_ #AKT15. TIMER SHALL BE OUR.
M	GAS METER	EF-2	WASHROOMS	61 lb	EXHAUST	TWINCITY	ROOF MOUNTED	BCRD 070E	D 200 CFM	0.375 in-wg	1590	1/4	120 V/ 1P/ 60						
	GATE VALVE	EF-3	JANITOR ROOM	61 lb	EXHAUST	TWINCITY	ROOF MOUNTED	BCRD 070E	D 100 CFM	0.375 in-wg	1375	1/4	120 V/ 1P/ 60	Hz PROVIDE NEW ROOF MOUNTED EX	XHAUST FAN c/w EXHAUST FAN SH	INTERNAL NEMA IALL RUN CONTIN	3R DISCONNECT, B. IUOUSLY.	ACKDRAFT DA	AMPER, BIRD SCREEN,
	PIPE ELBOW UP	SF-1	MAIN ENTRANCE	68 lb	SUPPLY	GREENHECI	INLINE K BELT-DRIV E FAN	/ BSQ-120	850 CFM	0.6 in-wg				PROVIDE NEW BELT DRIVEN SUPP Hz SWITCH AND CONTROLS, MOTOR	PLY AIR FAN IN CE COVER W/ INSUL/	EILING SPACE c/w ATION SUPPLY FA	VIBRATION ISOLAT IN SHALL RUN CON	TINUOUSLY C	
	PIPE ELBOW DOWN	1. HVAC	CONTRACTOR SHA	ALL INSULATE ALL	EXHAUST DUCTS	WITH 1" THERMAL	. INSULATION FOR	THE LAST 10' B	BEFORE LE	AVING THE									
_	DIDE 010	BUILD	ING. INSTALL BACK	DRAFT DAMPER	AT ROOF.										MINIMUM PL	UMBING FIXTU	RE OUTLET PIP	E SIZE	
	PIPE CAP				PROVIDED ON INTA	AKE AND DISCHAF	RGE DUCTS AT FAI	N AND SHALL BE	E DURO-D	YNE OR				PLUMBING FIXTURE	DCW SIZE	DHW SIZE	SANITARY SIZE	VENT	TEMPERED WATER
	P-TRAP													BARRIER FREE WATER CLOSET	1/2"		3"	1 5/8"	
FD	FLOOR DRAIN w/ P-TRAP				SCI.	JEDIJI E OE I		- De							1/2"	1/2"	2"	1 5/8"	1/2"
		-	<u> </u>											LAVATORY	1/2"	-	•	1 1/4"	
FFD	FUNNEL FLOOR DRAIN WITH P-TRAP	EQUIPME NT ID	AREA MAN	NUFACTURER	MODEL [DESCRI	IPTION		STAFF ROOM SINK	1/2"	1/2"	3"	1 5/8"	
0	ROOF DRAIN	EDH-1	ENTDAN	HERMOLEC			,	600 7/30/60		FER TO N	IOTES								
СТЕ	CONNECT TO EXISTING	NOTES:	NOTES:										PLUMBING FIXTURE SCHEDULE						
OED	OPEN END DUCT w/ WIRE MESH	CU NO	CUT OUT, TEMPERATURE SENSOR AND AIR FLOW PROVEN SWITCH. HEAT SIGNAL COMMAND FROM BAS WILL AUTOMATICALLY RAMP DOWN IF NECESSARY TO NOT INCREASE 125 F SUPPLY AIR WHILE IN HEAT MODE.										PLUMBING FIXTURE	FIXTURE FIXTURE DESCRIPTION					
QUANTITY TYPE NECK SIZE GRILLE FLOV X-X-X"ø -XXX	GRILL/DIFFUSER TAG	2. A5	2. ASSOSIATED CONTROLS TO BE PROVIDED FOR CONNECTION TO BAS BY BAS CONTRACTOR.								BARRIER FREE WATER CLOSET SHALL BE ZURN #Z5560 "ECOVANTAGE" WHITE VITREOUS CHINA WATER CLOSET COMBINATION WITH ELONGATED LOW CONSUMPTION (6L) BOWL WITH PRESSURE – ASSISTED SIPHON JET FLUSHING ACTION, FULLY GLAZED 54 MM DIA. BALLPASS TRAPWAY, Z5972-COMB (CLOSET BOLT & WAX RING KIT), AND A CLOSE-COUPLED FLUSH TANK WITH CHROME TRIP LEVER AND TANK/BOWL COUPLING SYSTEM. PROVIDE FOLLOWING ACCESSORIES: A SEATS: ZURN #Z5957SS-FL FLONGATED SOUD PLASTIC OPEN FRONT WHITE SEAT WITH								
XX	EQUIPMENT TAG				SCHED	DULE OF BAS	SEBOARD HE	EATERS									CHROME PLATED AN	IGLE SUPPLY	WITH WHEELHANDLE STOP
		SENSOR SERVICE WEIGHT SERVICE MANUFACTURES FANT TYPE MUNIFIES ADMINISTRATION FOR THE SERVICE MANUFACTURES FANT THE SERVICE FANT THE SERVICE MANUFACTURES FANT THE SERVICE FANT THE SERV																	
	DRAWING LIST		UNIVERSAL	OUELLE		1:	20 V/1P/60 Hz	INSTALLED B	BY MECH	ANICAL C	ONTRAC	CTOR, F	POWER		EYEWASH SHALI PLATED AERATC	BE GUARDIAN M	IODEL # G5022 EYE\ HEAD HAS A FLIP TO	WASH/DRENC OP DUST COV	ER, INTERNAL FLOW
DRAWING NO.	SHEET NAME	- DDII 0		0.15115	-T 05142									1	HANDLE, 8' REIN	FORCED PVC HO	SE WITH 300 PSI MA	XIMUM WORK	(ING PRESSURE, NPS 3/8
	ECHANICAL SPECS, DRAWING LIST, LEGEND. & SCHEDULES	BBH-2		1 OUELLE	=1 OFM 0	502 0.5									FORWARD, c/w H	IOSE GUIDE OPTI	ON. MIXING VALVE	SHALL BE BRA	ADLEY MODEL #S19-2000
M-3 H'	ECHANICAL DETAILS VAC LAYOUT LUMBING LAYOUT	BBH-3	-3 STAFF ROOM OUELLET OFM 1002 1 120 V/1P/60 Hz c/w BUILT IN THERMOSTAT w/ KNOB, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR, POWER									MAINTAIN SET OUTLET TEMPERATURE OF 25C - 30C. REFER TO SPEC.SECTION 22 42 00 FOR							
M-5 FI	RE PROTECTION LAYOUT OOF LAYOUT	SCHDIII E C	DE CDII I ES /	AND DIEELIS	EDQ /E U DD	ICE)					20000				ALTERNATES, FL CONSTRUCTED (WITH A 75 MM DI	OOR MOUNTED S OF # 16 GAUGE T A. CORNER STAN	SINK, MINIMUM 1.2 N YPE 304 STAINLESS	I LONG X 610 STEEL WITH	MMX254 MM DEEP, A # 4 FINISH AND COMPLETE

'	VI-2 IVILOTIANICAL DETAI	iLO								120 V/1P/60 HZ	c/w BUILT IN THERMOSTAT W/ KNOB, SUPPLIED AND		
N	M-3 HVAC LAYOUT				BBH-3	STAFF ROOM	OUELLET	OFM 1002	1		INSTALLED BY MECHANICAL CONTRACTOR, POWER		
N	M-4 PLUMBING LAYOUT										CONNECTION BY ELECTRICAL CONTRACTOR		
N	1-5 FIRE PROTECTION L	_AYOUT											
N	И-6 ROOF LAYOUT												
				S	CHDULE	OF GRILLES AN	D DIFFUSERS	(E.H. PRICE)					
TAG	DESCRIPTION	MODEL NO	SIZE	FACTORY	EINICH			·		REMARKS			
	DESCRIPTION	MODEL NO.		FACTORY I	_								
Α	SQUARE SUPPLY DIFFUSER	SCDA-24"X24"	AS SHOWN	TO ARCH. DIF	RECTION	4 CONE DIFFUSER,	, (1) DIFFUSER C/\	N SECTORIZING	BAFF	LE. COLOR: WHIT	E.		
В	SUPPLY AIR GRILLE	520D	AS SHOWN	TO ARCH. DIF	RECTION	DOUBLE DEFLECTION, C/W STEEL DAMPER. COLOR: WHITE							
С	EGG CRATE FACE RETURN	80F	AS SHOWN	TO ARCH. DIF	RECTION	ALUMINUM 1/2"X1/2	2" GRID CORE. CO	LOR: WHITE					
D	EXHAUST AIR GRILLE	530D	AS SHOWN	TO ARCH. DIF	RECTION	3/4" BLADE SPACIN	IG, c/w STEEL DAN	MPER, T-BAR MC	UNTE	D. COLOR: WHITE			
Ε	EXHAUST AIR GRILLE	530FR	AS SHOWN	TO ARCH. DIF	RECTION	3/4" BLADE SPACIN	IG, c/w FIRE DAMF	PER, DRYWALL N	/OUNT	ΓED. COLOR: WHI	TE		
F	DOOR GRILLE	STG1-BF	AS SHOWN	TO ARCH. DIF	RECTION	HEAVY DUTY STEE	L WITH 1-5/16" FL	AT BORDER BO	TH SID	ES. COLOR: GRE	Υ.		
G	DOOR GRILLE	1900A	AS SHOWN	TO ARCH. DIF	RECTION	ON 1-1/2 HOUR FIRE RATED, ADJUSTABLE Z-BLADE LOUVERS. COLOR: GREY							
Н	LINEAR SUPPLY AIR SLOT	SDS100/4	AS SHOWN	TO ARCH. DIF	RECTION	CONCEALED, MITERED END, SURFACE MOUNTED FOR DRY WALL INSTALLATION C/W PLENUMS. COLOR: WHITE.							
I	LINEAR RETURN AIR SLOT	SDR100/4	AS SHOWN	TO ARCH. DIF	RECTION	CONCEALED, MITE	RED END, SURFA	CE MOUNTED F	OR DR	RY WALL INSTALL	ATION C/W PLENUMS. COLOR: WHITE.		
STE: BA	LANCING DAMPERS TO BE LOCATE	D WITHIN CEILING S	PACE SEPARATE F	ROM THE GRILLES	AND DIFFUSE	RS FOR VOLUME CON	TROL UNLESS OTHER	RWISE NOTED.					

	SCHEDULE OF EXISTING GAS FIRED UNIT HEATER											
EQUIPMENT ID	AREA SERVED	MANUFACTURER	MODEL NUMBER	WEIGHT	HEATING INPUT	VENT SIZE	AIR FLOW	VOLTAGE	PHASE	HORSE POWER	SE DESCRIPTION	
UH-1	ENTRANCE	LENNOX	LF24-175S	175 lb	175000 Btu/h	0' - 5"	2350 CFM	115 V	1	1/3	EXISTING UNIT HEATER c/w 4" FLUE, FAN GUARD, CONTROL WIRING, SPACE TEMPERATURE SENSOR, ELECTRONIC IGNITION, 4-POINT SUSPENSION LUGS, EXHAUST ADAPTER AND S.S. HEAT EXCHANGER. BAS CONTRACTOR TO INSTALL FINAL SENSOR AND CONNECT TO BAS.	

REQUIRED DOCUMENTATION FOR SUBSTANTIAL PERFORMACE & FINAL GENERAL CONFORMANCE LETTERS - LCBO:

AIR BALANCING REPORT.

- NFPA 13 CONFORMANCE LETTER, SEALED BY GENERAL CONTRACTOR RETAINED PROFESSIONAL ENGINEER
- SEISMIC ENGINEERS SIGN-OFF, SEALED BY GENERAL CONTRACTOR RETAINED PROFESSIONAL ENGINEER CONTRACTOR TO PROVIDE MASTER PLUMBERS LETTER OF COMMITMENT FORM AS REQUIRED BY CITY OF WELLAND TO THE LCBO AS PART OF THE BUILDING PERMIT APPLICATION

GUARDS, COMBINED WHITE CO2 & TEMPERATURE SENSOR, WHITE HUMIDITY SENSOR, GFCI COVER. UNIT TO BE C/W 100 FT OF PLENUM RATED CABLE.

LCBO STICKER AFFIXED ON EACH UNIT TO ENSURE COMPLIANCE TO LCBO SPECIFICATIONS.

MINIMUM PLUMBING FIXTURE OUTLET PIPE SIZE								
PLUMBING FIXTURE	DCW SIZE	DHW SIZE	SANITARY SIZE	VENT	TEMPERED WATER			
BARRIER FREE WATER CLOSET	1/2"		3"	1 5/8"				
EYE WASH STATION					1/2"			
JANITOR SINK	1/2"	1/2"	3"	1 5/8"				
LAVATORY	1/2"	1/2"	1 5/8"	1 1/4"				
STAFF ROOM SINK	1/2"	1/2"	3"	1 5/8"				

SPECIFICATION SECTIONS

20 05 00

20 05 15

20 05 20

21 22 00

22 11 19

22 42 00

23 08 16

23 23 00 23 31 00

23 36 00

DESCRIPTION

BASIC MECHANICAL

FIRE EXTINGUISHERS

DRAIN AND VENT PIPING

MECHANICAL INSULATION

SEISMIC CONTROL AND RESTRAINT

MECHANICAL VIBRATION CONTROL

DOMESTIC WATER PIPING AND VALVES DOMESTIC WATER PIPING SPECIALTIES

ELECTRIC DOMESTIC HOT WATER HEATERS

REFRIGERANT PIPING AND ACCESSORIES

PLUMBING FIXTURES AND FITTINGS TESTING ADJUSTING AND BALANCING

DUCTWORK AND ACCESSORIES

GRILLES AND DIFFUSERS

ELECTRIC HEATERS

EXHAUST FANS

FIRE SUPPRESSION SPRINKLER

PLUMBING FIXTURE SCHEDULE						
PLUMBING FIXTURE	FIXTURE DESCRIPTION					
BARRIER FREE WATER CLOSET	BARRIER FREE WATER CLOSET SHALL BE ZURN #Z5560 "ECOVANTAGE" WHITE VITREOUS CHINA WATER CLOSET COMBINATION WITH ELONGATED LOW CONSUMPTION (6L) BOWL WITH PRESSURE – ASSISTED SIPHON JET FLUSHING ACTION, FULLY GLAZED 54 MM DIA. BALLPASS TRAPWAY, Z5972-COMB (CLOSET BOLT & WAX RING KIT), AND A CLOSE-COUPLED FLUSH TANK WITH CHROME TRIP LEVER AND TANK/BOWL COUPLING SYSTEM. PROVIDE FOLLOWING ACCESSORIES: A. SEATS: ZURN #Z5957SS-EL, ELONGATED, SOLID PLASTIC OPEN FRONT WHITE SEAT WITH COVER AND CHECK HINGE B. SUPPLY: MCGUIRE # H166N3 CHROME PLATED ANGLE SUPPLY WITH WHEELHANDLE STOP AND FLEXIBLE RISER REFER TO SPEC SECTION 22 42 00 FOR FULL SPECIFICATION.					
EYE WASH STATION	EYEWASH SHALL BE GUARDIAN MODEL # G5022 EYEWASH/DRENCH HOSE UNIT c/w TWO PLATED AERATOR HEADS, EACH HEAD HAS A FLIP TOP DUST COVER, INTERNAL FLOW CONTROL AND FILTER, FORGED BRASS SQUEEZE VALVE WITH STAINLESS STEEL LEVER HANDLE, 8' REINFORCED PVC HOSE WITH 300 PSI MAXIMUM WORKING PRESSURE, NPS 3/8 SUPPLY AND NPS 3/8 STAY OPEN BALL VALVE. SHALL BE COUNTER MOUNTED FACING FORWARD, c/w HOSE GUIDE OPTION. MIXING VALVE SHALL BE BRADLEY MODEL #S19-2000 PACKAGED WATER BLENDING SYSTEM, MIXING DOMESTIC COLD AND HOT WATER TO MAINTAIN SET OUTLET TEMPERATURE OF 25C - 30C. REFER TO SPEC.SECTION 22 42 00 FOR FULL SPECIFICATION.					
JANITOR SINK	JANITOR SINK SHALL BE ATLANTIC STAINLESS FABRICATORS LTD. OR APPROVED ALTERNATES, FLOOR MOUNTED SINK, MINIMUM 1.2 M LONG X 610 MMX254 MM DEEP, CONSTRUCTED OF # 16 GAUGE TYPE 304 STAINLESS STEEL WITH A # 4 FINISH AND COMPLETI WITH A 75 MM DIA. CORNER STANDING WASTE WITH 254 MM HIGH PERFORATED REMOVABLE CORNER GUARD WITH CLIPS. SUPPLY FITTING SHALL BE CHICAGO FAUCET MODEL # 305VBR-XK-HOSE-58 200 MM CENTRESET WALL MOUNT FAUCET ASSEMBLY WITH BRASS LEVER HANDLES, VACUUM BREAKER, INTEGRAL STOPS, AND 1800 MM OF HOSE WITH HANGER. REFER TO SPEC. SECTION 22 42 00 FOR FULL SPECIFICATION.					
LAVATORY	BARRIER FREE LAVATORY SHALL BE AMERICAN STANDARD # 0955.000.0059.20 "MURRO" BASII WITH SEALED OVERFLOW, 4" CENTERS, 22"X21-1/4"X6-1/2" HIGH, WITH CENTER HOLE, VITREOUS CHINA, WALL HUNG, FOR CARRIER WITH CONCEALED ARMS, REAR OVERFLOW, RECESSED SELF DRAINING FAUCET LEDGE, SEMI-PEDESTAL P-TRAP COVER. FAUCET SHALL BE CHICAGO FAUCETS MARATHON # 2200 SINGLE LEVER FAUCET, CENTRE HOLE ONLY, CAST BRASS BODY, 2.2 GPM (8.3 LPM) MAX FLOW AERATOR OUTLET, 4-3/4" LONG CAST SPOUT, LEVER HANDLE, ADJUSTABLE VOLUME CONTROL. DRAIN -MCGUIRE # 155AC OPEN GRID DRAIN, SUPPLY -MCGUIRE # H170BVRB, P-TRAP-MCGUIRE # 8872CBSAN, CARRIER JAY R.SMITH # 0700-Z-M-B.					
STAFF ROOM SINK	LUNCH ROOM COUNTERSINK SHALL BE FRANKE KINDRED CANADA LTD. # QSL2020/8 " STEEL QUEEN" UNDERCOATED, SINGLE 460MMX410MMX200MM DEEP BOWL COUNTER SINK CONSTRUCTED OF # 20 GAUGE GRADE 18-8 STAINLESS STEEL WITH A MIRROR FINISHED RIM AND SATIN FINISHED BOWL, SUPPLY FITTING: SYMMONS # S-23-LST "SYMMETRIX" 200 MM CENTER SINGLE LEVER HANDLE KITCHEN SINK FAUCET WITH SWING SPOUT WITH AERATOR AND LOMG SUPPLY TUBS. REFER TO SPEC. SECTION 22 42 00 FOR FULL SPECIFICATION.					

•	DOMESTIC WATER HEATER SCHEDULE									
	EQUIPMENT ID	AREA SERVED	MANUFACTURER	MODEL NUMBER	RECOVERY RATE	kW	VOLTAGE	PHASE		
	HWT-1	WASHROOM, STAFF ROOM, EYEWASH, JANITOR ROOM	A.O. SMITH	DEL-30-3.0	12 GPH @ 100F TEMPERATURE RISE	3	208 V	1		

IBI GROUP 7th Floor - 55 St. Clair Avenue West Toronto ON M4V 2Y7 Canada tel 416 596 1930 fax 416 596 0644 ibigroup.com



Context Plan



General Notes 1. ALL DIMENESIONS IN IMPERIAL. 2. VERIFY ALL DIMENSIONS. B. DO NOT SCALE DRAWINGS 4. CHECK DRAWINGS AGAINST SPECIFICATIONS. . USE THE LATEST REVISED DRAWINGS ONLY. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SCHEDULES, DISCOVERED ERRORS, OR OMISSIONS, TO THE ARCHITECT AND LCBO DURING TENDER PERIOD AND BEFORE PROCEEDING WITH ANY WORK.
DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT, AND MUST BE RETURNED UPON COMPLETION OF WORK.

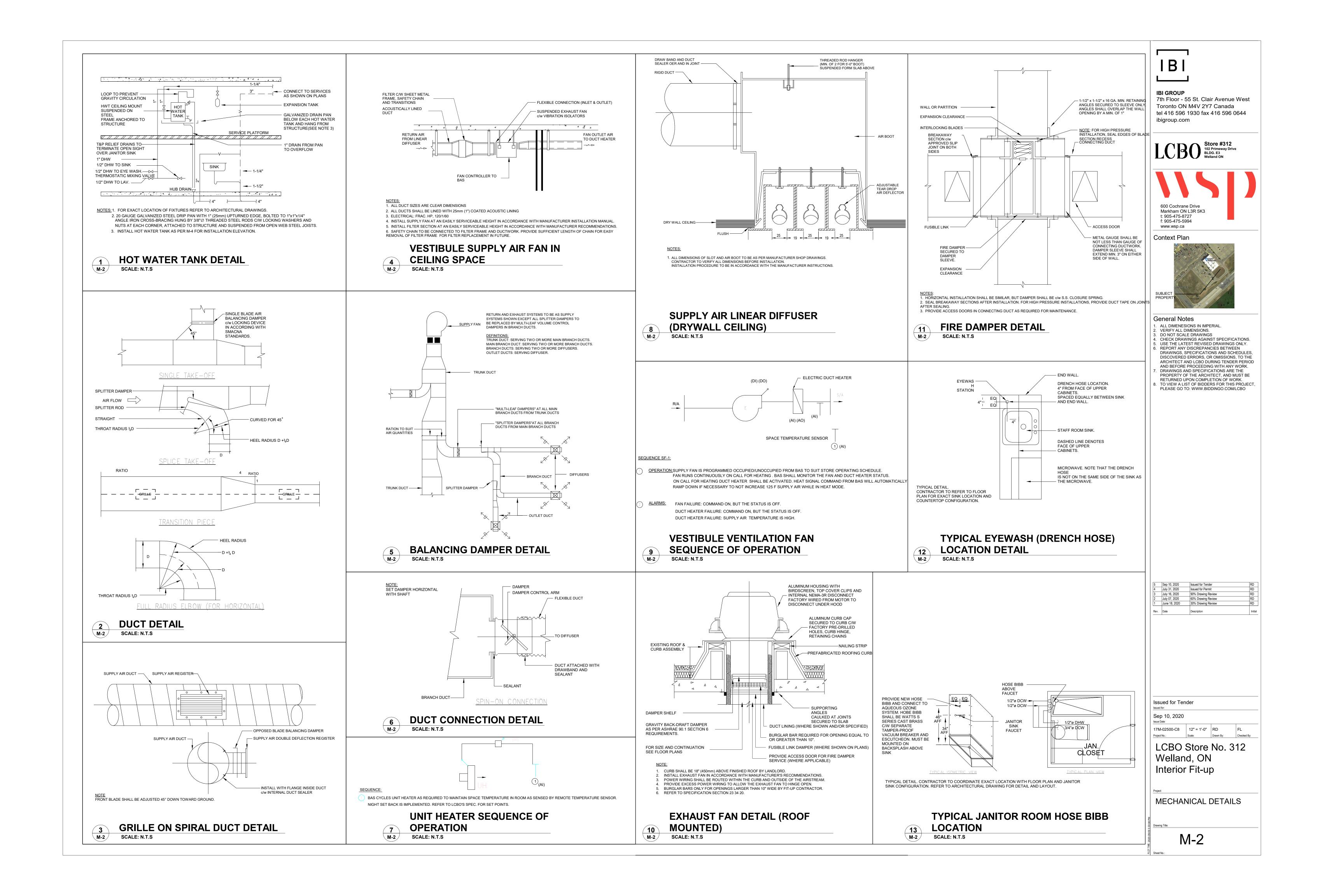
. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT,

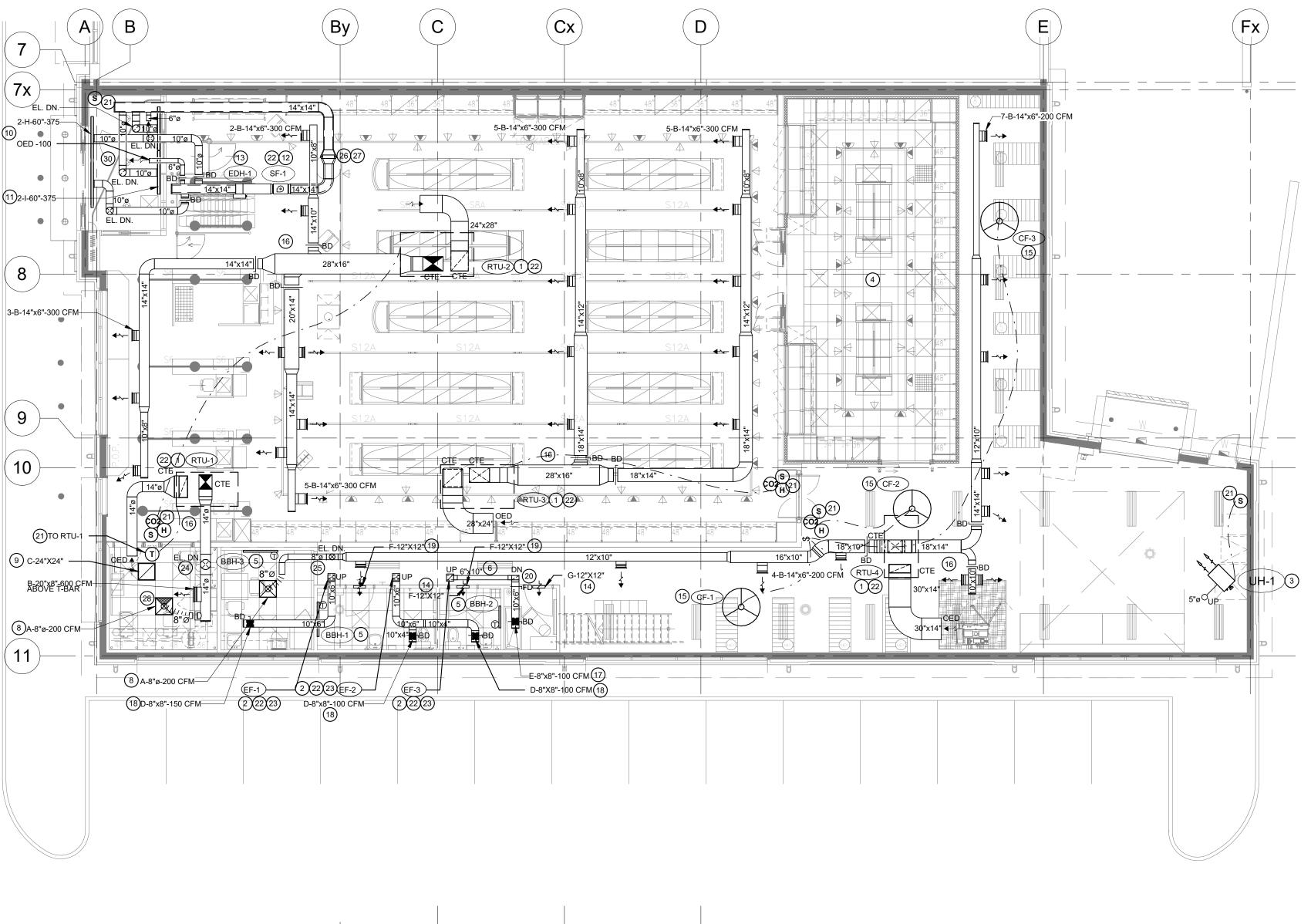
PLEASE GO TO: WWW.BIDDINGO.COM/LCBO

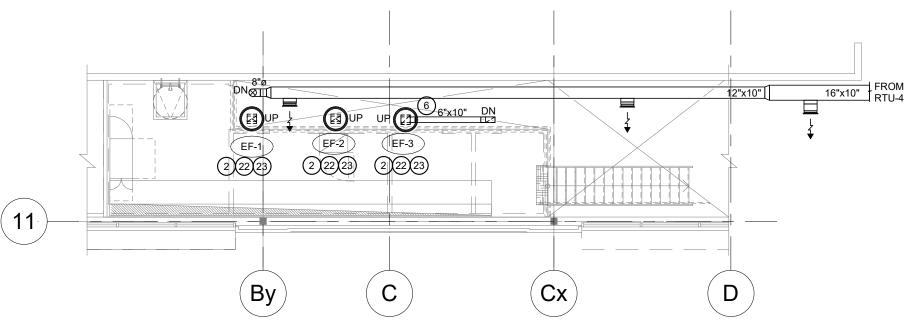
Issued for Tender Sep 10, 2020 17M-02500-C8 As indicated RD

LCBO Store No. 312 Welland, ON Interior Fit-up

MECHANICAL SPECS, DRAWING LIST, LEGEND. & SCHEDULES







2 HVAC LAYOUT-MEZZANINE

-3 SCALE: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- 1. ALL SUPPLY AIR VALUES ARE IN UNITS OF CFM.
- 2. PRIOR TO COMMENCEMENT OF WORK, ORDERING OF EQUIPMENT AND/OR FABRICATING MATERIALS THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEERS OF ANY
- 3. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS TO FACILITATE THE INSTALLATION OF THE MECHANICAL SERVICES OUTLINED FOR THIS SCOPE OF WORK.

DISCREPANCIES, OMISSIONS AND OR INTERFERENCES PRIOR TO COMMENCEMENT OF WORK. PROVIDE INTERFERENCE DRAWINGS.

- 4. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND MECHANICAL ENGINEER.
- ALL INSTALLATIONS SHALL COMPLY WITH LCBO'S APPROVED SPECIFICATIONS. REFER TO DIVISION 20, 21, 22, AND 23 OF LCBO'S
- 7. ALL EXSITING AND NEW MECHANICAL EQUIPMENT TO BE LABELED WITH LAMACOID INCLUDING LANDLORD SUPPLIED EQUIPMENT. PROVIDE LAMACOID LABLE FOR FANS, FILTER HOUSING ACCESS, ROOF TOP UNITS, UNIT HEATER, THERMOSTATS, ECT.
- 8. HVAC CONTRACTOR SHALL INSTALL ALL DUCTWORK. EQUIPMENT, DEVICES WITHOUT TOUCHING CEILING SUPPORT SYSTEM TO AVOID POSSIBLE VIBRATION TRANSFER.
- 9. ALL VISUAL RETAIL/WAREHOUSE DUCTWORK AND ASSOSIATED ACCESSORIES SHALL BE PAINTED WHITE. COORDINATE FINAL COLOR WITH ARCHITECT.

OFFICE THERMOSTAT SCHEDULE:

- 1. MON-SAT: OCCUPIED MODE 9AM 9PM
- 2. SUN: OCCUPIED MODE 11AM 5PM

NOTE NOT USED.

- 3. WINTER SETTINGS: OCCUPIED MODE 20°C UNOCCUPIED MODE 15.5°C
- 4. SUMMER SETTINGS: OCCUPIED MODE 21.5°C UNOCCUPIED MODE 23.5°C
- 5. FAN IS TO RUN CONTINUOUSLY IN OCCUPIED MODE AND IN AUTO IN UNOCCUPIED MODE.

MECHANICAL KEYNOTES:

- EXISTING BASE BUILDING ROOF TOP UNITS ON THE ROOF c/w 1 FOOR SUPPLY AND RETURN AIR RISERS AND ACOUSTIC INSULATION. CONTRACTOR TO PROVIDE FLEX CONNECTION. CONTRACTOR TO PROVIDE FILTER SETS (MERV 8 DURING CONSTRUCTION, MERV 13 AFTER CONSTRUCTION, MERV 13 TURNED OVER TO LCBO). (TYPICAL)
- PROVIDE NEW STAFF ROOM, WASHROOM & JANITOR ROOM EXHAUST FANS ON ROOF (EF-1, EF-2 & EF-3). PROVIDE BURGLAR BARS ON OPENINGS EQUAL TO OR LARGER THAN 10". REFER TO DETAIL M-2/10. (TYPICAL)
- (3) EXISTING GAS FIRED UNIT HEATER C/W 4" FLUE PIPE THROUGH ROOF.
- NEW BEER COLD ROOM DESIGN BY REFRIGERATION CONSULTANT. REFER TO REFRIGERATION CONSULTANT DRAWINGS FOR COORDINATION (INCLUDES ALL HVAC EQUIPMENT/DUCTWORK/DIFFUSERS/CONTROLS ASSOCIATED WITH COLD ROOM). (TYPICAL)
- PROVIDE ELECTRIC BASE BOARD HEATER C/W BUILT-IN THERMOSTAT. SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. POWER CONNECTION BY ELECTRICAL CONTRACTOR. (TYPICAL)
- (6) INSTALL NEW DUCTWORK TIGHT TO JOIST.
- 7) ROUTE EXHAUST DUCTWORK 2 FT ABOVE CEILING. (TYPICAL)
- 8) PROVIDE NEW 24"X24" SQUARE SUPPLY AIR DIFFUSER. REFER TO DRAWING M-1 FOR SPECIFICATION. (TYPICAL)
- 9 PROVIDE NEW 24"X24" EGGCRATE RETURN AIR GRILLE IN OFFICE.
- PROVIDE NEW LINEAR SUPPLY AIR SLOT DIFFUSER C/W SHEET METAL PLENUM. REFER TO DRAWING M-1 FOR SPECIFICATION. CONTRACTOR TO ASSESS BASE BUILDING STRUCTURE AND PIPING IN THE VESTIBULE TO IDENTIFY ANY CONFLICTS WITH SUPPLY/RETURN DIFFUSERS LAYOUT PRIOR TO ORDERING DIFFUSERS. REPORT CONFLICTS TO ENGINEER. (TYPICAL)
- (11) PROVIDE NEW LINEAR RETURN AIR DIFFUSER C/W SHEET METAL PLENUM. REFER TO DRAWING M-1 FOR SPECIFICATION.
- PROVIDE NEW IN-LINE SUPPLY FAN IN CEILING SPACE C/W HANGERS, DUCTWORK AND CONTROLS. PROVIDE ACOUSTIC LINING. CONNECT TO BAS. SUPPLY FAN SHALL BE INSTALLED AT 12'-0" ABOVE FINISHED FLOOR. SUPPLY FAN, DUCT HEATER AND ALL ASSOCIATED DUCTWORK SHALL BE PAINTED. COORDINATE COLOUR WITH ARCHITECT. EQUIPMENT LABELS SHALL BE LEFT UNPAINTED AND SHALL BE
- PROVIDE NEW ELECTRIC DUCT HEATER (EDH-1) C/W CONTROLS, HIGH TEMPERATURE LIMIT SWITCH & AIR FLOW SWITCH. DUCT HEATER SHALL BE INSTALLED AT 12'-0" ABOVE FINISHED FLOOR. DISTANCE BETWEEN DUCT HEATER AND SUPPLY FAN SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS. CONNECT TO BAS BY BAS CONTRACTOR.
- PROVIDE NEW 12"x12" DOOR GRILLE FOR JANITOR ROOM. DOOR GRILLE SHALL BE FIRE RATED TYPE. FIRE RATED DOOR GRILLE SHALL NOT BE PAINTED AT SITE. REFER TO DRAWING M-1 FOR SPECIFICATION.
- PROVIDE DOWN DRAFT RE-CIRCULATION FAN. SHALL BE SIMILAR TO "PLEASANTAIRE" CP-56 WITH PLUG-IN. THESE FANS SHALL BE MOUNTED WITH BLADES NO LOWER THAN THE BOTTOM OF THE STEEL JOISTS AND SHALL BE CONTROLLED BY VARIABLE SPEED CONTROLLERS. SPEED CONTROLLER SHALL BE MOUNTED AT 43" (1100mm) ABOVE FINISHED FLOOR TO THE CENTER OF THE DEVICE. THIS CONTRACTOR TO SUPPLY AND INSTALL RE-CIRCULATION FANS AND SUPPLY VARIABLE SPEED CONTROLLERS. LINE VOLTAGE TO FANS AND CONTROLLERS, INSTALLATION AND LOCATION OF SPEED CONTROLLERS SHALL BE BY THE ELECTRICAL CONTRACTOR. FAN SHALL BE INSTALLED ABOVE LIGHTING. (TYPICAL OF 2)
- PROVIDE NEW SUPPLY AND RETURN AIR DUCTWORK CONNECTED TO ROOF TOP UNITS. PROVIDE ACOUSTIC LINING 15 FEET DOWNSTREAM OF SUPPLY AND RETURN AIR DUCTS CONNECTED TO ROOF TOP UNIT, EXCEPT SPIRAL DUCTWORK. PROVIDE SUPPLY AIR DUCT AND RETURN AIR DUCT AT 13'-6" ABOVE FINISHED FLOOR (BOTTOM OF THE LARGEST DUCTWORK) IN THE RETAIL AREA WITH INDEPENDENT HANGERS, UNLESS OTHERWISE NOTED. REFER TO 2/M-2 FOR DETAIL. PROVIDE SPIRAL SUPPLY AIR DUCT AND RETURN AIR DUCT TIGHT TO JOIST IN THE WAREHOUSE. COORDINATE WITH ARCHITECT AND LCBO COORDINATOR FOR THE FINAL SUPPLY AIR DUCT ELEVATION. ALL RTU RETURN AIR INLETS TO BE C/W BIRDSCREEN. ALL EXPOSED DUCTWORK AND BIRDSCREENS SHALL BE PAINTED. COORDINATE COLOUR WITH THE ARCHITECT.
- PROVIDE NEW JANITOR EXHAUST AIR GRILLES C/W BALANCING DAMPERS, SHEET METAL PLENUMS AND EXHAUST DUCTS UP TO ROOF. BALANCE TO AIR QUANTITIES AS SHOWN (CFM).
- PROVIDE NEW WASHROOM AND STAFF ROOM EXHAUST AIR GRILLES C/W BALANCING DAMPERS, SHEET METAL PLENUMS AND EXHAUST DUCT UP TO ROOF. BALANCE TO AIR QUANTITIES AS SHOWN (CFM). (TYPICAL)
- DUCT UP TO ROOF. BALANCE TO AIR QUANTITIES AS SHOWN (CFM). (TYPICAL)

 PROVIDE NEW 12"X12" DOOR GRILLE FOR WASHROOMS, AND STAFF ROOM. REFER TO DRAWING M1.0 FOR SPECIFICATION.
- (20) PROVIDE NEW FIRE DAMPER, TYPE "B" DYNAMIC. REFER TO DRAWING M-1 FOR SPECIFICATION.
- INSTALL THERMOSTAT ASSOCIATED WITH RTU-1. BAS CONTRACTOR TO INSTALL COMBINATION TEMPERATURE AND CO2 SENSORS, HUMIDISTATS ASSOCIATED WITH RTU-2, RTU-3, AND RTU-4, TEMPERATURE SENSOR ASSOCIATED WITH UNIT HEATER AND TEMPERATURE SENSOR ASSOCIATED WITH DUCT HEATER. RTU-1 THERMOSTAT SHALL BE PROGRAMMED BY THE MECHANICAL CONTRACTOR PRIOR TO COMMISSIONING. THERMOSTAT PROGRAMMING INCLUDING TIME-OF-DAY AND TEMPERATURE SETPOINTS TO BE PROGRAMMED BY THE CONTRACTOR. REFER TO OFFICE THERMOSTAT SCHEDULE ON THIS DRAWING. COORDINATE WITH LCBO FOR FINAL LOCATION OF THERMOSTATS, SENSORS, HUMIDISTATS AND CO2 SENSORS. INSTALL ALL SENSORS IN RETAIL AND WAREHOUSE AREA AT 6 FEET ABOVE FINISHED FLOOR. INSTALL THERMOSTAT IN OFFICE AT 3'-11" ABOVE FINISHED FLOOR (TYPICAL).
- BALANCE ALL DIFFUSERS, EXHAUST GRILLES, EXHAUST FANS, ROOF TOP UNITS, ETC., TO AIR QUANTITIES AS SHOWN (CFM). AIR BALANCER TO BE COORDINATED BY CONTRACTOR. REFER TO SECTION 23 08 16. REFER TO DETAIL 5 ON DRAWING M-2 FOR LOCATION OF BALANCING DAMPER. (TYPICAL)
- CONNECT NEW WASHROOM, STAFF ROOM AND JANITOR ROOM EXHAUST DUCTS TO RESPECTIVE NEW ROOF MOUNTED FANS.
 DUCTWORK SHALL RUN ABOVE T-BAR CEILING UNDER SERVICE PLATFORM.PROVIDE THERMAL INSULATION MINIMUM OF 10 FEET
- DOWNSTREAM OF EXHAUST DUCT CONNECTED TO FAN. (TYPICAL)

 (24) ELBOW SUPPLY AIR DUCT DOWN TO 2FT ABOVE T-BAR CEILING TO ALLOW FOR EASY ACCESS TO BALANCING DAMPERS.
- 25) ELBOW RTU-4 SUPPLY AIR DUCT DOWN TO BETWEEN SERVICE PLATFORM AND STAFF ROOM T-BAR CEILING.
- (25) ELBOW RTU-4 SUPPLY AIR DUCT DOWN TO BETWEEN SERVICE PLATFORM AND STAFF ROOM T-BAR CEILING.
- PROVIDE RETURN AIR DUCT AT 12'-0" ABOVE FINISHED FLOOR C/W HANGERS THAT ARE INDEPENDENT FROM SUPPLY DUCT AND EQUIPMENT HANGERS. NOTE THAT FILTER, SUPPLY FAN AND ELECTRIC DUCT HEATER ARE TO BE LOCATED OVER OPEN FLOOR SPACE AS SHOWN TO ALLOW FOR MAINTENANCE ACCESS.

 PROVIDE 20"X20" FIBERGLASS 1" AIR FILTER AND SHEET METAL FRAME. FILTER TO BE DAFCO MODEL TAG 2020-1 OR APPROVED EQUAL.
- PROVIDE SECTORIZING BAFFLE (BLANK-OFF) TO PREVENT AIRFLOW FROM AFFECTING RTU SENSOR/THERMOSTAT. COORDINATE WITH MANUFACTURER TO MODIFY AIR PATTERN. (TYPICAL)
- (29) NOTE NOT USED
- 30 ALL DUCTWORK IN VESTIBULE SHALL BE RIGID c/w INSULATION. NO FLEX IS ALLOWED. (TYPICAL)
- PROVIDE NEW SUPPLY AIR GRILLE IN RETAIL AND WAREHOUSE AREAS. REFER TO DRAWING M-1 FOR SPECIFICATION. INSTALL SUPPLY AIR GRILLES ON THE SIDE OF THE DUCTWORK (TYPICAL).



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Context Plan

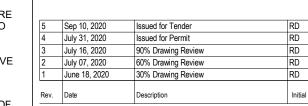


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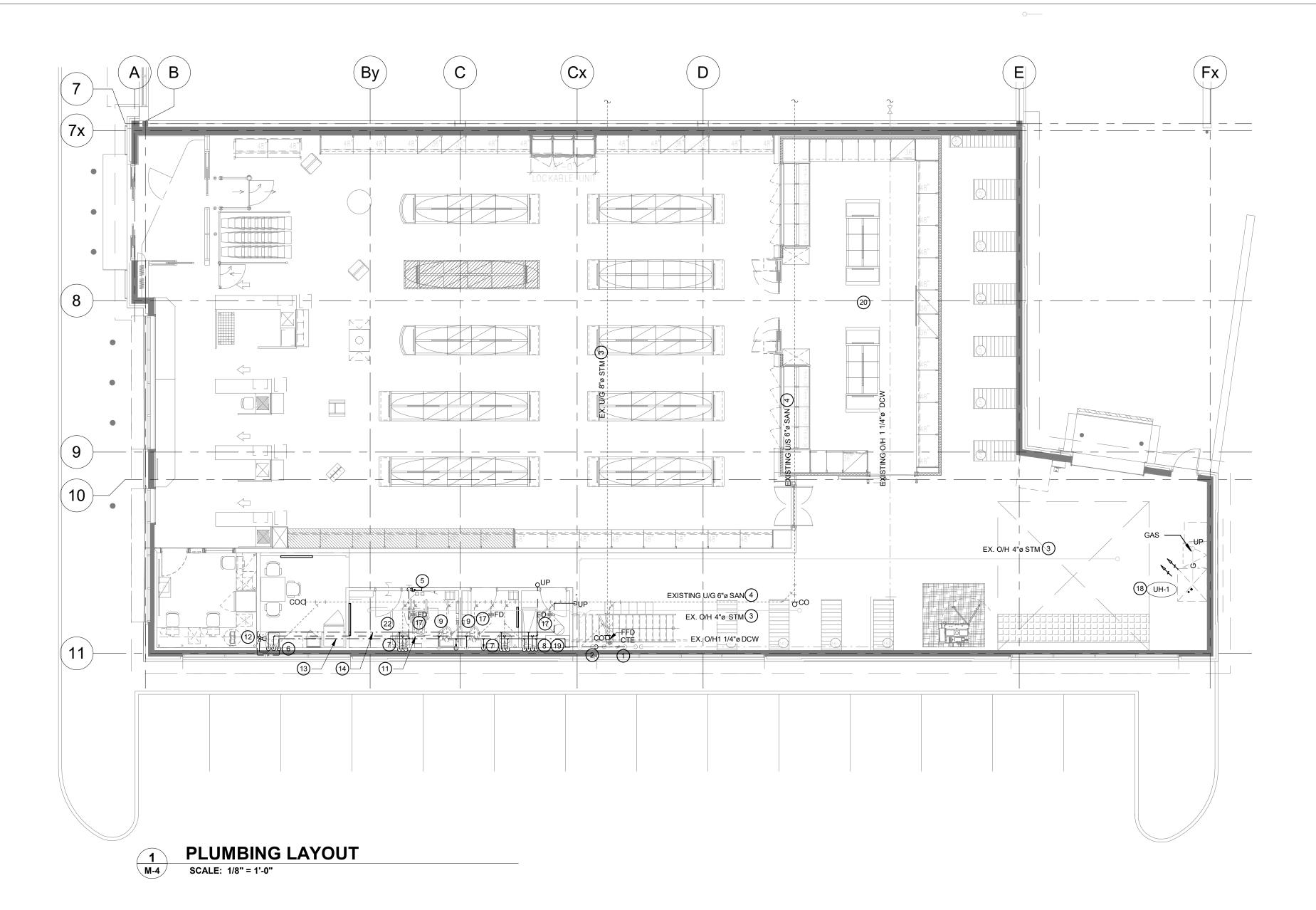
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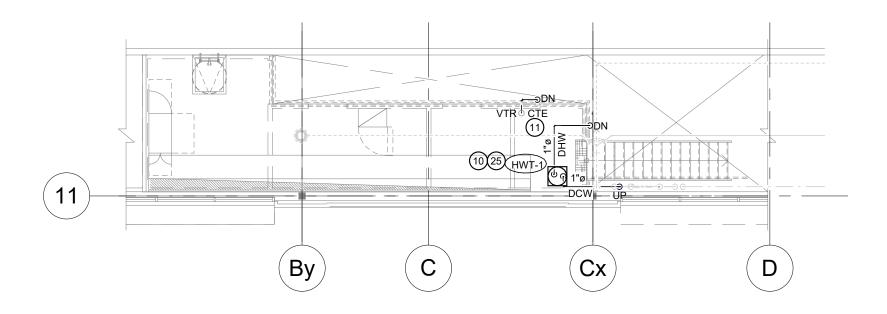
LCBO Store No. 312 Welland, ON Interior Fit-up

ect:

HVAC LAYOUT

wing Title:





PLUMBING LAYOUT-MEZZANINE
SCALE: 1/8" = 1'-0"

PLUMBING GENERAL NOTES:

- 1. PRIOR TO COMMENCEMENT OF WORK, ORDERING OF EQUIPMENT AND/OR FABICATING MATERIALS THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS. IT IS THE CONTRACTORS RESPONCIBILITY TO NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMITIONS AND OR INTERFERENCES PRIOR TO COMMENCEMENT OF WORK.
- 2. ALL INSTALLATIONS SHALL COMPLY WITH LCBO'S APPROVED SPECIFICATIONS. REFER TO DIVISION 20, 21, 22 AND 23 OF LCBO'S
- 3. ALL EXISTING AND NEW MECHANICAL EQUIPMENT TO BE LABELED WITH LAMACOID INCLUDING LANDLORD SUPPLIED EQUIPMENT. PROVIDE LAMACOID LABEL FOR TRAP SEAL PRIMER ACCESS DOOR, MIXING VALVES, WATER METER, HWT, GAS METER ETC.
- 4. FINAL POURING OF CONCRETE IN 18"x18" SQUARE OPENINGS IN THE SLAB, BY CONTRACTOR. CONTRACTOR TO ALSO ALLOW FOR SAN
- 5. ALL PIPE PENETRATIONS OF FIRE RATED WALLS TO BE FIRE-SEALED.

PIPE OFFSETS REQUIRED TO SUIT FIXTURE LOCATIONS.

PLUMBING KEYNOTES:

- EXISTING 1-1/4"ø DOMESTIC COLD WATER MAIN PIPE C/W SHUT-OFF, BACKFLOW PREVENTER, WATER METER C/W REMOTE READ OUT AND 1-1/4"ø VALVED/CAPPED CONNECTION.
- CONNECT NEW 1-1/4"ø DOMESTIC COLD WATER LINE TO EXISTING 1-1/4"ø CAPPED CONNECTION. PROVIDE (1) NEW POTABLE WATER THERMAL EXPANSION TANK ON THE MAIN DOMESTIC WATER PIPE NEAR THE HOT WATER TANK. EXPANSION TANK SHALL BE WATTS MODEL DETA OR APPROVED EQUIVALENT. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE
- 3 EXISTING BASE BUILDING STORM DRAIN PIPE TO REMAIN. (TYPICAL)
- (4) EXISTING BASE BUILDING SANITARY DRAIN PIPE TO REMAIN. (TYPICAL)
- (5) INSTALL AUTOMATIC TRAP SEAL PRIMER ASSEMBLY RECESSED INTO WALL AT 1'-0" ABOVE FINISHED FLOOR, FACING INTO WAREHOUSE. TRAP SEAL PRIMER ASSEMBLY HANDED OVER FROM LANDLORD TO LCBO C/W SOLENOID VALVE, TIMER AND ACCESS PANEL. PROVIDE LAMACOID LABEL FOR TRAP SEAL PRIMER ACCESS DOOR. PROVIDE NEW DOMESTIC COLD WATER PIPE TO TRAP SEAL PRIMER. CONNECT 1/2"Ø DCW TO TRAP SEAL PRIMER. FINAL POURING OF CONCRETE IN 18"X18" SQUARE OPENING AT ROUGH-INS, BY CONTRACTOR.
- PROVIDE NEW STAFF ROOM SINK AND FAUCET AS SPECIFIED ON DRAWING M1.0 AND SPEC. CONNECT 1/2"Ø DCW AND 1/2"Ø DHW TO NEW SINK C/W ISOLATION VALVES. CONNECT SINK DRAIN PIPE TO EXISTING ROUGH-IN.

 PROVIDE NEW WALL HUNG LAVATORY C/W FAUCET AS SPECIFIED ON DRAWING M-1 AND SPEC. CONNECT 1/2"Ø DOMESTIC COLD WATER
- PROVIDE NEW WALL HUNG LAVATORY C/W FAUCET AS SPECIFIED ON DRAWING M-1 AND SPEC. CONNECT 1/2"Ø DOMESTIC COLD WATER AND 1/2"Ø DOMESTIC HOT WATER PIPE TO LAV. C/W ISOLATION VALVE. CONNECT DRAIN PIPE TO EXISTING ROUGH-IN. FINAL POURING OF CONCRETE IN 18"X18" SQUARE OPENING AROUND DRAIN ROUGH-IN, BY CONTRACTOR. (TYPICAL)
- PROVIDE NEW JANITOR SINK AND FAUCET AS SPECIFIED ON LCBO SPEC. CONNECT 1/2"ø DCW AND 1/2"ø DHW TO NEW SINK C/W ISOLATION VALVES. CONNECT SINK DRAIN PIPE TO EXISTING ROUGH-IN. FINAL POURING OF CONCRETE IN 18"X18" SQUARE OPENING AROUND JANITOR SINK DRAIN ROUGH-IN, BY CONTRACTOR.
- PROVIDE NEW FLOOR MOUNTED TOILET AS SPECIFIED ON LCBO SPECIFICATION. CONNECT 1/2" DCW PIPE. CONNECT TO EXISTING ROUGH-IN. FINAL POURING OF CONCRETE IN 18"X18" SQUARE OPENING AROUND WATER CLOSET DRAIN ROUGH-INS, BY CONTRACTOR.
- PROVIDE NEW HOT WATER TANK AT SERVICE PLATFORM IN JOIST SPACE. PROVIDE 1"Ø DCW AND 1"Ø DHW CONNECTIONS. REFER TO SPECIFICATION AND SCHEDULE FOR SIZE AND MODEL. REFER TO DETAIL 1/M2 FOR TANK INSTALLATION. PROVIDE PAN DRAIN PIPE AND T&P DRAIN PIPE AND ROUTE INDIVIDUALLY TO NEAREST EXISTING INDIRECT DRAIN. EXACT LOCATION TO BE COORDINATED ON SITE BEFORE INSTALLATION
- PROVIDE NEW VENT PIPE FOR PLUMBING FIXTURES AS SPECIFIED ON DRAWING AND AS REQUIRED BY THE OBC. CONNECT 3"Ø VENT PIPE TO EXISTING BASE BUILDING VENT. CONTRACTOR TO CAP AND SEAL ANY UN-USED BASE BUILDING VENT PROVISIONS THROUGH
- PROVIDE NEW COUNTER MOUNTED EYEWASH IN STAFF ROOM C/W UNDER-COUNTER MIXING VALVE. INSTALL EYEWASH WITH HANDLE AND HEADS FACING AWAY FROM BACKSPLASH. EXACT LOCATION TO BE COORDINATED WITH LCBO. REFER TO DETAIL 12/M-2. PROVIDE 1/2"ø DCW AND 1/2"ø DHW CONNECTIONS TO MIXING VALVE. PROVIDE 1/2" TEMPERED WATER LINE. EYE WASH TEMPERED WATER TEMPERATURE SHALL BE 25 C 30 C. INSTALL MIXING VALVE AT AN ACCESSIBLE LOCATION UNDER STAFF ROOM SINK. INSTALL AS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
- PROVIDE NEW 1-1/4"ø DOMESTIC COLD WATER PIPE. PROVIDE PIPE INSULATION. (TYPICAL)
- PROVIDE NEW 1"ø DOMESTIC HOT WATER PIPE TO SERVE STAFF ROOM SINK, JANITOR SINK, LAVATORY AND EYEWASH MIXING VALVE.
- 15 NOTE NOT USED.
- (16) NOTE NOT USED.
- EXISTING FLOOR DRAIN IN WASHROOMS, JANITOR ROOM, ETC. TEMPORARILY PLUG FLOOR DRAINS DURING CONSTRUCTION PROCEDURES. REMOVE PLUG DURING FINAL CLEANUP WORK AND DEMONSTRATE FREE AND CLEAR OPERATION OF EACH DRAIN. REPLACE ANY DAMAGED GRATES. (TYPICAL)
- (18) EXISTING UNIT HEATER C/W GAS PIPE.
- PROVIDE NEW HOSE BIBB IN JANITOR ROOM AND CONNECT TO AQUEOUS OZONE SYSTEM. HOSE BIBB SHALL BE WATTS S SERIES CAST BRASS C/W SEPARATE TAMPER-PROOF VACUUM BREAKER AND ESCUTCHEON. COORDINATE WITH LCBO COORDINATOR FOR FINAL LOCATION. REFER TO DETAIL 13/M-2.
- NEW BEER COLD ROOM DESIGN BY REFRIGERATION CONSULTANT. REFER TO REFRIGERATION CONSULTANT DRAWINGS FOR COORDINATION (INCLUDES ALL HVAC EQUIPMENT/DUCTWORK/DIFFUSERS/CONTROLS ASSOCIATED WITH COLD ROOM). (TYPICAL)
- 21) NOTE NOT USED
- ROUTE DCW/DHW/VENT PIPING ABOVE T-BAR AND DRYWALL CEILING. (TYPICAL)
- NOTE NOT USED.
- NOTE NOT USED.
- PROVIDE (2) NEW WATER HAMMER ARRESTORS FOR HOT AND COLD WATER PIPES. WATER HAMMER ARRESTORS SHALL BE WATTS SERIES 15, 3/4" OR APPROVED EQUIVALENT. INSTALL WATER HAMMER ARRESTORS AT AN ACCESSIBLE HEIGHT. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR TO VERIFY THE WATER PRESSURE AND INSTALL PRESSURE REDUCING VALVE UPSTREAM OF WATER HAMMER ARRESTOR AS REQUIRED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.



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Context Plan



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 4
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 Issued for Permit
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 3
 July 16, 2020
 90% Drawing Review
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 2
 July 07, 2020
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 1
 June 18, 2020
 30% Drawing Review
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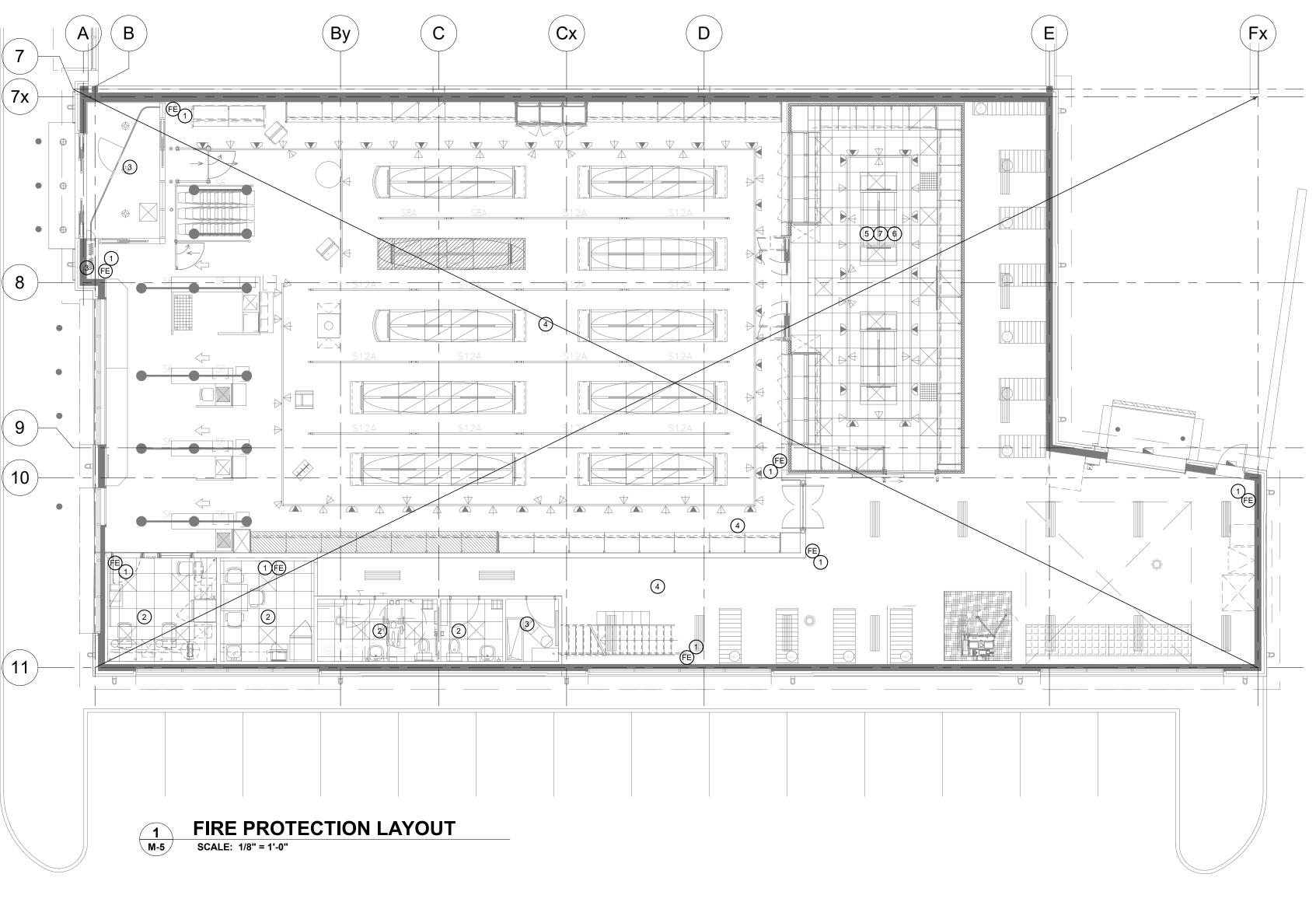
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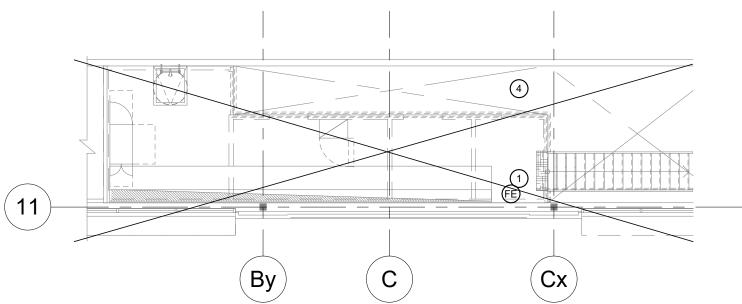
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PLUMBING LAYOUT

9:





FIRE PROTECTION LAYOUT-MEZZANINE

SCALE: 1/8" = 1'-0"

M-5 ∕

FIRE PROTECTION - KEYED NOTES (REFER TO FLOOR PLAN):

- (1) PROVIDE NEW FIRE EXTINGUISHERS (MINIMUM 8) C/W WALL BRACKET AND ARROW STICKERS. FIRE EXTINGUISHER LOCATIONS MUST BE APPROVED BY BUILDING INSPECTOR ON SITE PRIOR TO INSTALLATION.
- PROVIDE NEW SEMI-RECESSED SPRINKLER HEAD. (TYPICAL FOR OFFICE, STAFF ROOM AND WASHROOMS) (TYPICAL) STAFF ROOM AND WASHROOMS) (TYPICAL).
- 3 PROVIDE NEW CONCEALED SPRINKLER HEAD FOR VESTIBULE, JANITOR ROOM, AND SECURITY POCKET. (TYPICAL)
- 4 PROVIDE UPRIGHT SPRINKLER HEAD IN WAREHOUSE AREA AND RETAIL AREA. REFER TO GENERAL NOTE #7. (TYPICAL)
- (5) PROVIDE NEW QUICK RESPONSE, DRY PENDANT TYPE SEMI-RECESSED SPRINKLER HEAD IN COLD ROOM. ALL SPRINKLER PIPING TO BE LOCATED INSIDE THE HEATED RETURN AIR PLENUM. REFER TO GENERAL NOTE #7. (TYPICAL)
- (6) PROVIDE UPRIGHT SPRINKLER HEAD ABOVE COLD ROOM AIR PLENUM BELOW WAREHOUSE CEILING STRUCTURE. REFER TO GENERAL NOTE #7. (TYPICAL)
- 7) PROVIDE NEW QUICK RESPONSE, DRY PENDANT TYPE SPRINKLER HEAD BELOW COLD ROOM CEILING ABOVE COLD ROOM T-BAR CEILING. REFER TO GENERAL NOTE #7. (TYPICAL).
- 8 IN ADDITION TO THE OVERALL BASE BID, CONTRACTOR TO ALLOW FOR RE-ROUTING/RE-WORKING/MODIFICATIONS OF EXISTING SPRINKLER PIPING/STANDPIPES/MAINS TO SUIT FIT-UP. COORDINATE WITH HVAC, ELECTRICAL AND PLUMBING TRADES. INCLUDE IN THIS CONTRACT AN ALLOWANCE FOR THE INSTALLATION OF 40FT OF 1-1/2" SPRINKLER PIPING AND INSTALLATION OF (4) SPRINKLER HEADS.

GENERAL NOTES:

- PRIOR TO COMMENCEMENT OF WORK, ORDERING OF EQUIPMENT AND/OR FABRICATING MATERIALS THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS AND OR INTERFERENCES PRIOR TO COMMENCEMENT OF WORK. PROVIDE INTERFERENCE DRAWINGS.
- ALL INSTALLATIONS SHALL COMPLY WITH LCBO'S APPROVED SPECIFICATIONS. REFER TO DIVISION 20, 21, 22 AND 23 OF LCBO'S SPECIFICATION.
- ALL MECHANICAL EQUIPMENT TO BE LABELED WITH LAMACOID INCLUDING LANDLORD SUPPLIED EQUIPMENT. PROVIDE LAMACOID LABEL FOR TRAP SEAL
- PROVIDE SHOP DRAWINGS CONSISTING OF SPRINKLER HEAD LAYOUTS, FIRE HOSE CABINET LAYOUTS (WHERE APPLICABLE) AND HYDRAULIC CALCULATIONS THAT HAVE BEEN STAMPED BY A PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL.
- COORDINATE ALL SPRINKLER BRANCH PIPING WITH ALL NEW AND EXISTING EQUIPMENT AND SERVICES. RELOCATE SPRINKLER LINES TO FACILITATE THE INSTALLATION OF SERVICES AS REQUIRED.
- ALL SPRINKLER COSTS SHALL BE INCLUDED AS PART OF THIS CONTRACT. SPRINKLER COSTS INCLUDE BOTH DESIGN CONSULTING COSTS AS WELL AS CONSTRUCTION COSTS. RETAIN THE BASE BUILDING FIRE PROTECTION CONTRACTOR FOR ANY SPRINKLER SYSTEM MODIFICATIONS WORK. FOR THIS PROJECT, RETAIN THE FOLLOWING:

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CONTRACTOR TO VERIFY EXISTING BASE BUILDING SPRINKLER HEADS. CONTRACTOR TO UTILIZE EXISTING SYSTEM TO DESIGN SPRINKLER SYSTEM TO SUIT INTERIOR FIT-UP AS SHOWN ON DRAWING AND REQUIRED BY LCBO SPECIFICATION AND BUILDING CODE.

FIRE PROTECTION - GENERAL NOTES:

- THE FIRE PROTECTION DRAWINGS ARE PREPARED TO PROVIDE THE DESIGN INTENT AND CONTRACT AREA TO THE CONTRACTOR, CITY, FIRE DEPARTMENT, LOCAL AUTHORITY AND UNDERWRITERS.
- WSP CANADA GROUP LTD. IS NOT IN ANY WAY LIABLE FOR ACCURACY OF ANY INFORMATION OF THE FIRE PROTECTION DRAWINGS. USE OF THE FIRE PROTECTION DRAWINGS FOR OTHER PURPOSES SUCH AS PRICE QUOTATION AND ENGINEERING DESIGN SHALL BE AT THEIR OWN RISK.
- THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL PREPARE ALL ENGINEERING DOCUMENTS (SEALED BY PROFESSIONAL ENGINEER) INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS CONSISTING OF SPRINKLER HEAD LAYOUTS. FIRE HOSE CABINET LAYOUTS (WHERE APPLICABLE) AND HYDRAULIC CALCULATIONS AND SUBMIT TO CONSULTANTS FOR CONCEPT REVIEW, SUBMIT TO LOCAL AUTHORITIES FOR APPROVAL (WHERE REQUIRED) AND SUBMIT TO THE CITY FOR APPROVAL AND PERMITS. ON CONSTRUCTION COMPLETION, FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE NFPA-13 & NFPA-14 CONFORMANCE LETTER DULY SIGNED AND STAMPED BY FIRE PROTECTION ENGINEER.
- CONTRACTOR SHALL INCLUDE ALL THE MEASURES AND COSTS TO COMPLETE THE FIRE PROTECTION SYSTEM INCLUDING BUT NOT LIMITED TO OBTAINING INFORMATION OF EXISTING SYSTEM, VERIFYING & TESTING OF EXISTING SYSTEM, PIPE MODIFICATIONS, EQUIPMENT REPLACEMENT, ADDITIONAL DEVICE/ACCESSORIES, EXISTING ITEM REMOVAL & DISPOSAL, DRAINAGE & RECHARGE, FREEZE PROTECTION, INSULATION, POWER, COMMUNICATION, PERMIT APPLICATIONS, SITE VISITS AND SITE COORDINATION WITH OTHERS (LANDLORD, CONTRACTORS, OTHER DISCIPLINES ETC.).
- CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, STRUCTURAL, ARCHITECTURAL AND OTHER TRADES (EXISTING OR NEW) FOR FINAL LOCATION OF SPRINKLER HEADS AND PIPE ROUTING IN ORDER TO PREVENT CONFLICTS INCLUDING LIGHTING, GRILLES, DIFFUSERS AND SIMILAR ITEMS. OFFSET PIPING, RELOCATE OR ADD ADDITIONAL SPRINKLER HEADS AS REQUIRED TO PROVIDE PROPER SPRINKLER COVERAGE AT NO ADDITIONAL COST.
- PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE WORK WITH THE OWNER. THE DATE AND PERIOD OF TIME PERMITTED FOR DISCONNECTING AND NEW TIE-INS TO MECHANICAL SERVICES IN ORDER TO MINIMIZE INTERRUPTIONS OF THE SITE'S DAILY OPERATIONS. CONTRACTOR SHALL WALL IN HIS PRICE FOR AFTER HOURS WORK IN ORDER TO KEEP THE BUILDING OPERATIONAL DURING THE CONSTRUCTION PERIOD.
- WHERE CEILING, FLOOR, AND/OR WALL OPENINGS ARE REQUIRED TO RUN MECHANICAL SERVICES, INCLUDE FOR ALL COST OF THESE DRAWINGS, CUTTING & PATCHING. SEAL-UP ALL OPENINGS WITH SMOKE AND FIRE-STOPPING MATERIALS.
- CONTRACTOR TO ALLOW FOR FIRE-WATCH DURING PERIOD OF SPRINKLER SYSTEM
- EXISTING SPRINKLER SYSTEM TO BE MODIFIED AS REQUIRED TO ACCOMMODATE ALL NEW WORK. REMOVE ALL REDUNDANT SPRINKLER HEADS AND ASSOCIATED PIPING AND PROVIDE ALL NECESSARY NEW PIPING INCLUDING MAINS, BRANCH MAINS AND BRANCH LINES TO NEW OR RELOCATED SPRINKLER HEADS.
- 10. REFER TO SPECIFICATIONS FOR THE TYPE OF SPRINKLER HEAD IN FINISHED CEILING, T-BAR CEILING, OWSJ AREA ETC.



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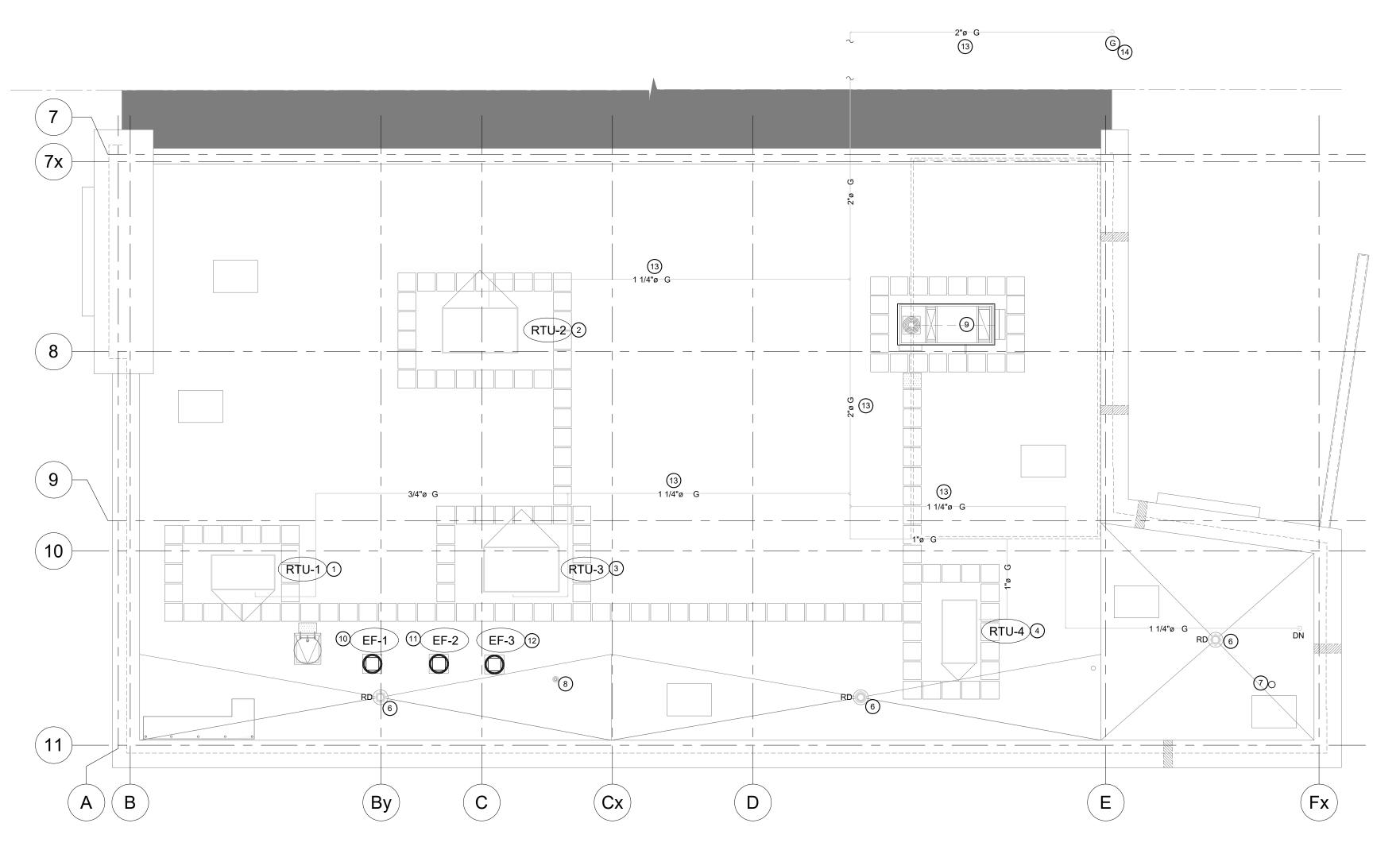
Sep 10, 2020 July 31, 2020 Issued for Permit July 16, 2020 July 07, 2020 June 18, 2020 60% Drawing Review

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Sep 10, 2020

LCBO Store No. 312 Welland, ON Interior Fit-up

FIRE PROTECTION LAYOUT



1 ROOF LAYOUT M-6 SCALE: 1/8" = 1'-0"

ROOF PLAN KEY NOTES:

- 1) EXISTING OFFICE RTU-1 TO REMAIN
- (2) EXISTING RETAIL RTU-2 TO REMAIN
- (3) EXISTING RETAIL RTU-3 TO REMAIN
- 4 EXISTING WAREHOUSE RTU-4 TO REMAIN
- (5) EXISTING GAS METER ON GROUND LEVEL TO REMAIN. (6) EXISTING ROOF DRAIN TO REMAIN. (TYPICAL)
- (7) EXISTING 5"Ø UNIT HEATER FLUE DUCT TO REMAIN. EXACT LOCATION TO BE VERIFIED ON SITE.
- (8) EXISTING 3"Ø SANITARY VENT PIPE TO REMAIN. EXACT LOCATION TO BE VERIFIED ON SITE.
- 9 COLD ROOM EQUIPMENT, REFRIGERATION, VENTILATION, HEATING/COOLING, CONTROLS BY REFRIGERATION CONSULTANT. REFER TO REFRIGERATION CONSULTANT'S DRAWINGS FOR DETAILS. (TYPICAL)
- (10) PROVIDE NEW STAFF ROOM EXHAUST FAN. REFER TO M1.0 FOR SPECIFICATION. (TYPICAL)
- PROVIDE NEW WASHROOM EXHAUST FAN. REFER TO M1.0 FOR SPECIFICATION. (TYPICAL) (12) PROVIDE NEW JANITOR ROOM EXHAUST FAN. REFER TO M1.0 FOR SPECIFICATION. (TYPICAL)
- (13) EXISTING GAS PIPE ON THE ROOF TO REMAIN. (TYPICAL)
- (14) EXISTING GAS METER ON THE GROUND FLOOR TO REMAIN. (TYPICAL)



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1	June 18, 2020	30% Drawing Review	RD
2	July 07, 2020	60% Drawing Review	RD
3	July 16, 2020	90% Drawing Review	RD
4	July 31, 2020	Issued for Permit	RD
5	Sep 10, 2020	Issued for Tender	RD

Issued for Tender Sep 10, 2020 |ssue Date:

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ROOF LAYOUT

]
	LIGHTING SYMBOLS	
SYMBOL	DESCRIPTION LINE VOLTAGE CONTROL CONNECTION BETWEEN SWITCH AND	SYMBOL
	FIXTURE, THERMOSTAT AND HEATER, ETC. ONE, TWO, THREE GANG LINE VOLTAGE LIGHT SWITCH. DO NOT GANG	Φ
\$ \$ \$	SWITCHES OF DIFFERENT VOLTAGES TOGETHER. DIMMER SWITCH. TYPE TO MATCH LOAD. DO NOT GANG DIMMERS	\$\$
Φ	TOGETHER WITH OTHER DEVICES.	# +
TS	LINE VOLTAGE TIMER FOR LIGHTING.	₩
\$	CEILING MOUNTED OCCUPANCY SENSOR.	₩
<u>os</u>	LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL CONTACTOR OR RELAY.	(b)
<u>0</u>	INTERNAL LIGHTING SENSOR, CAT.# LIGHTSAVER LS-101, WATTSTOPPER OCCUPANCY SENSOR, WATTSTOPPER CAT.#PW-100 AUTOMATIC WALL	₩
OS1	SWITCH C/W 600W BALLAST-PARAMETER TO SET MANUAL 'ON', AUTOMATIC 'OFF' OCCUPANCY SENSOR, WATTSTOPPER CAT.#PW-100 AUTOMATIC WALL	₩
OS2	SWITCH C/W 600W BALLAST-PARAMETER TO SET MANUAL 'OFF', AUTOMATIC 'ON'	db.
OS3	OCCUPANCY SENSOR, WATTSTOPPER CAT.#DW-203 - REFER TO OFFICE SENSOR CONNECTION DETAIL	₫0
EME	RGENCY LIGHTING SYMBOLS	Ö
SYMBOL	DESCRIPTION	<u> </u>
⊗ ⊗	CEILING MOUNTED EXIT LIGHT, COMPLETE WITH DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS.	®
	WALL MOUNTED EXIT LIGHT, COMPLETE WITH DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. CEILING/WALL MOUNTED COMBINATION BATTERY UNIT/EXIT SIGN,	*
	COMPLETE WITH HEADS/DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS.	Φ
B2 P B2 P B2	EMERGENCY BATTERY UNIT, PLUG-IN OR DIRECT CONNECT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.	⊕
	SINGLE, DOUBLE, TRIPLE REMOTE BATTERY HEAD.	∅⊗
Ø	RECESSED REMOTE EMERGENCY POTLIGHT	Ш
	SECURITY SYMBOLS	P
SYMBOL	DESCRIPTION	JB
•	PUSH BUTTON	РВ
EP	EMERGENCY PUSH BUTTON, SEE BARRIER FREE WASHROOM DETAIL.	-0
L	DOOR LOCK BUTTON, SEE BARRIER FREE WASHROOM DETAIL.	4Z
S	BACK BOX FOR SECURITY CAMERA OR INTERCOM	<u> </u>
CR	CARD READER	(IVSS)
KP	KEYPAD	
ES	ELECTRIC STRIKE	©
ML	ELECTROMAGNETIC LOCK	
DO	DOOR OPERATOR	<u></u>
DH	DOOR HOLD	ý dia
DC	DOOR CONTACT	Ţ
Ö M	BUZZER	M
	SECURITY CAMERA	R
CH ⊠	CHIME	<u> </u>
	FIRE ALARM SYMBOLS	
SYMBOL	DESCRIPTION	SYMBOL
N	MANUAL PULL STATION	▼
Q	FIRE ALARM BELL	
¥	FIRE ALARM HORN	V
¥	COMBINATION FIRE ALARM HORN / STROBE	
₽ ₽	FIRE ALARM STROBE LIGHT	→
•	SMOKE AND CO DETECTOR TO BE COMPATIBLE WITH BASE BUILDING FIRE ALARM SYSTEM IF APPLICABLE, OTHERWISE SHALL BE 120V LOCAL SMOKE AND CO DETECTOR. CAT.#SC9120, BRK ELECTRONICS	
•	HEAT DETECTOR	
€	FLOW SWITCH	
♦	SUPERVISED VALVE	
FACP	FIRE ALARM PANEL. FACP = FIRE ALARM CONTROL PANEL FAA = FIRE ALARM ANNUNCIATOR LGA = FA LOCAL GRAPHIC TR = TRANSPONDER PANEL	
	•	4
ELR	END-OF-LINE RESISTOR	

	POWER SYMBOLS
SYMBOL	DESCRIPTION
Ф	15A, 120V DUPLEX RECEPTACLE, MOUNTED TYPICAL HEIGHT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
\$	SIMILAR TO ABOVE, BUT MOUNTED ABOVE COUNTER OR AS SPECIFIED.
#	TWO 15A, 120V DUPLEX RECEPTACLES GANGED TOGETHER, MOUNTED TYPICAL HEIGHT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
₩	SIMILAR TO ABOVE, BUT MOUNTED ABOVE COUNTER OR AS SPECIFIED.
	15A, 120V SPLIT RECEPTACLE, MOUNTED ABOVE COUNTER. CONNECT TO 15A 2P GFCI CIRCUIT BREAKER.
Φ	15A, 120V RECESSED 'CLOCK-TYPE RECEPTACLE'. REFER TO INTERIOR DESIGNER/ARCHITECT'S DRAWINGS FOR MOUNTING HEIGHT.
	20A, 120V GFI TYPE RECEPTACLE. REFER TO INTERIOR DESIGNER/ARCHITECT'S DRAWINGS FOR MOUNTING HEIGHT.
Ф	20A, 120V DUPLEX RECEPTACLE, MOUNTED TYPICAL HEIGHT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
<u> </u>	SIMILAR TO ABOVE, BUT MOUNTED ABOVE COUNTER OR AS SPECIFIED.
	NON STANDARD RECEPTACLE. NEMA CONFIGURATION AS NOTED ON
	DRAWINGS. 15A, 120V DUPLEX RECEPTACLE WITH ISOLATED GROUND, MOUNTED TYPICAL HEIGHT. REFER TO SPECIFICATIONS FOR ADDITIONAL
	REQUIREMENTS. 15A, 120V DUPLEX RECEPTACLE WITH TWO USB CHARGING OUTLETS.
 <u></u>	15A, 120V DUPLEX RECEPTACLE WITH TWO USB CHARGING OUTLETS. 15A, 120V DUPLEX RECEPTACLE, CEILING MOUNTED. REFER TO
<u>₩</u>	SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. TWO 15A, 120V DUPLEX RECEPTACLES GANGED TOGETHER, CEILING
	MOUNTED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
Ψ	15A, 120V DUPLEX RECEPTACLE, FLOOR MOUNTED. REFER TO SPECIFICATIONS/DETAILS FOR ADDITIONAL REQUIREMENTS. TWO 15A, 120V DUPLEX RECEPTACLES GANGED TOGETHER, FLOOR
<u>₩</u>	MOUNTED. REFER TO SPECIFICATIONS/DETAILS FOR ADDITIONAL REQUIREMENTS.
△ 🌢 🙆	120V/1φ, 208V/3φ, 600V/3φ DIRECT CONNECTION.
III	CONTACTOR - REFER TO DETAILS FOR NUMBER OF POLES, AMPERAGE RATING AND COIL VOLTAGE.
Р	B.F DOOR PUSH BUTTON.
JB	4"X4" JUNCTION BOX UNLESS OTHERWISE NOTED ON DRAWINGS.
РВ	PULL BOX, SIZE AS NOTED ON DRAWINGS.
Ф	UNFUSED DISCONNECT SWITCH.
4 <u>7</u>	FUSED DISCONNECT SWITCH.
-	SURFACE OR RECESS MOUNTED PANEL.
[IVSS]	TRANSIENT VOLTAGE SUPPRESSION SYSTEM.
	FLOOR MOUNTED OR SUSPENDED DISTRIBUTION TRANSFORMER.
	ELECTRIC BASEBOARD HEATER.
	SURFACE OR RECESSED ELECTRIC FORCE FLOW HEATER.
	SINGLE PHASE MOTOR CONNECTION WITH LOCAL DISCONNECT.
ý D	THREE PHASE MOTOR CONNECTION WITH LOCAL DISCONNECT.
<u> </u>	LINE VOLTAGE THERMOSTAT
М	ELECTRICAL METER
	SPEED CONTROLLER FOR CIRCULATING FAN BY MECHANICAL CONTRACTOR. CONDUIT AND WIRING BY THE ELECTRICAL
	SPACE CONTROLLER FOR HVAC BY MECHANICAL CONTRACTOR.
	OMMUNICATION SYMBOLS
	1
SYMBOL	DESCRIPTION SINGLE ANALOGUE VOICE OUTLET MOUNTED AT TYPICAL HEIGHT WITH SINGLE GANG BACK BOX AND 3/4" CONDUIT C/W PULL STRING TO
	ACCESSIBLE CEILING SPACE. SINGLE VOICE/DATA OUTLET MOUNTED AT TYPICAL HEIGHT WITH SINGLE GANG BACK BOX AND 3/4" CONDUIT C/W PULL STRING TO
	ACCESSIBLE CEILING SPACE. SAME AS ABOVE BUT SUITABLE FOR TWO VOICE/DATA OUTLETS.
<u> </u>	TYPICAL FOR OVER COUNTER, CEILING AND FLOOR MOUNTED OUTLETS. SINGLE VOICE/DATA OUTLET MOUNTED OVER COUNTER OR AS
\	SPECIFIED WITH SINGLE GANG BACKBOX AND 3/4" CONDUIT C/W PULL STRING TO ACCESSIBLE CEILING SPACE. CABLE TV OUTLET. PROVIDE BACK BOX, 3/4" CONDUIT AND PULL
<u></u>	STRING TO ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING HEIGHT WITH INTERIOR DESIGNER/ARCHITECT. CEILING MOUNTED VOICE/DATA OUTLET. PROVIDE OCTAGON
$\overline{\nabla}$	JUNCTION BOX MOUNTED IN FINISHED CEILING WITH CONDUIT C/W PULLSTRING TO ACCESSIBLE CEILING SPACE.
abla	FLOOR MOUNTED VOICE/DATA OUTLET. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS.

ADDITIONAL REQUIREMENTS.

TELECOM GROUNDING BUS BAR

GENERAL ANNOTATIONS						
ANNOTATION	DESCRIPTION					
EM	CONNECT TO EMERGENCY CIRCUIT SERVING SPACE.					
NL	CONNECT TO UNSWITCHED NIGHT LIGHT CIRCUIT SERVICE SPACE.					
К	KEYED SWITCH					
3	THREE WAY SWITCH					
4	FOUR WAY SWITCH					
BL	MOTORIZED BLINDS OR SHADE SWITCH					
М	MASTER SWITCH					
E	EXISTING ITEM TO REMAIN AS INSTALLED					
D	EXISTING ITEM TO BE DEMOLISHED. REMOVE ALL EXISTING WIRING, CONDUIT, ETC. BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY DOWNSTREAM.					
ER	EXISTING IT TO BE RELOCATED. EXTEND EXISTING WIRING IN CONDUIT TO NEW LOCATION AND CONNECT.					
RP	EXISTING ITEMS IN RELOCATED POSITION.					
RR	EXISTING ITEM TO BE REMOVED AND REINSTALLED IN EXISTING LOCATION.					
X E-X	DETAIL NUMBER E-X DRAWING NUMBER					

DRAWING LIST						
DRAWING NO.	DRAWING TITLE					
E-1	ELECTRICAL LEGEND OF SYMBOLS					
E-2	LUMINAIRES SCHEDULE					
E-3	SINGLE LINE DIAGRAM AND PANEL SCHEDULES					
E-4	ELECTRICAL LIGHTING LAYOUT					
E-5	ELECTRICAL POWER LAYOUT					
E-6	ELECTRICAL ROOF LAYOUT					
E-7	ELECTRICAL DETAILS					
E-8	MOUNTING DETAILS					
E-9	ELECTRICAL DETAILS					
E-10	ELECTRICAL DETAILS					
E-11	ELECTRICAL DETAILS					

ELECTRICAL DRAWINGS GENERAL NOTES:

SPECIFICATION SECTIONS

26 05 00 DIVISION 26 (BASIC ELECTRICAL MATERIALS)

DIVISION 26 (ELECTRICAL SERVICE)

DIVISION 28 (SECURITY & COMMUNICATION

26 51 14 DIVISION 26 (LIGHTING FIXTURE AND LAMPS)

26 05 00.03 DIVISION 26 (LCBO STORE CABLING)

26 05 48 DIVISION 26 (VIBRATION ISOLATION)

28 31 00 DIVISION 28 (FIRE ALARM SYSTEM)

REFER TO THE SECTION ABOVE FOR SRRS ELECTRICAL

SPECIFICATIONS IN THE BID SPECIFICATIONS BINDER.

SYSTEMS)

SECTION DESCRIPTION

26 24 13

28 13 28

- CONTRACTOR BEFORE SUBMITTING BID PRICE SHALL EXAMINE THE SITE AND ALL DRAWINGS AND FAMILIARIZE HIMSELF WITH THE BUILDING CONSTRUCTION AND FINISHES IN ORDER THAT HIS TENDER WILL INCLUDE ALL NECESSARY ALLOWANCES FOR A PROPER COMPLETION OF THE WORK.
- ALL DRAWINGS ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATE ONLY, AND MAY BE ALTERED BY THE ENGINEERS TO MEET THE REQUIREMENTS OF THE PROJECT. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECT'S AND MECHANICAL DRAWINGS FOR LOCATION OF ALL LUMINAIRES, SWITCHES, THE DEVICES, OUTLETS, FURNITURE, FEEDING POINTS, DIMENSIONS, MOUNTING HEIGHTS, AND CONSTRUCTION DETAILS.
- MAINTAIN EXISTING FIRE ALARM, EXIT SIGNS AND EMERGENCY LIGHTS IN FULL OPERATION DURING THE ENTIRE CONSTRUCTION
- NEW AND EXISTING ELECTRICAL WIRING AND CABLES EXPOSED WITHIN THE CEILING SPACES SHALL CONFORM TO THE PLENUM REQUIREMENTS OF OBC SENTENCE 3.6.4.3. (1).
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE WORK WITH ALL OTHER TRADES, THE CONSULTANT, AND THE OWNER. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT BY THE CONTRACTOR IN A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF WORK OF THIS PROJECT.
- 7. EMPTY CONDUIT AND BACK BOXES FOR COMMUNICATION CABLE AND DATA OUTLET SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR. DATA FACE PLATE, J-HOOK AND COMMUNICATION CABLE BY COMMUNICATION CONTRACTOR
- 8. MOUNTING HEIGHT FOR ALL SWITCHES, PULL STATIONS, EXIT PUSH BUTTON AND SECURITY DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWING.
- 9. ALL NEW DEVICES INSTALLED WHERE NEW FINISHES OCCUR SHALL BE FLUSH MOUNTED.
- 10. FOR EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT FROM ELECTRICAL SOURCE OF SUPPLY UP TO AND INCLUDING PANELS, PROVIDE ENGRAVED LAMACOID IDENTIFICATION NAMEPLATES SECURED TO APPARATUS WITH STAINLESS STEEL SCREWS, WORDING TO INDICATE SOURCE OF ELECTRICAL SUPPLY AND SIZED TO SUIT EQUIPMENT FOR WHICH IT IS PROVIDED. CONFIRM EXACT NAMEPLATE WORDING, DESIGNATIONS AND SIZES WITH LCBO PRIOR TO MANUFACTURE. CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICES, JUNCTION BOXES, PULL BOXES, BATTERY UNITS WITH CIRCUIT NUMBERS, CEILING FAN REGULATOR SWITCH, ALL CONTROL SWITCH, SHUTTER AND SHADE SWITCH, BAS CURRENT TRANSDUCER JUNCTION BOX. HYDRO METER, PANELS AND TRANSFORMER PROVIDED BY LANDLORD, ALL OTHER DEVICES AND EQUIPMENT INSTALLED AND CONNECTED UNDER SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION SHALL BE AS PER OWNER'S REQUIREMENTS AND ALL MARKINGS SHALL BE OF NON-ERASEABLE LAMACOID TYPE. COORDINATE ALL LABELING WITH THE LCBO AND CONSULTANT.
- 10. CODE COMPLIANT FIREPROOFING MATERIAL AND TECHNIQUES SHALL BE USED BY THE CONTRACTOR ON ALL PENETRATION OF FIRE RATED CEILINGS, PARTITIONS AND SLAB, WHERE THE PENETRATION ARE MADE BY OR USED BY THE CONTRACTOR TO MAINTAIN EXISTING/NEW FIRE RATING THROUGHOUT THE LCBO SPACE.
- 11. THE ELECTRICAL CONTRACTOR IS TO FOLLOW THE POWER AND LIGHTING CIRCUITING AS DETAILED ON THE DRAWINGS. ANY DEVIATIONS FROM THE DRAWINGS MUST BE APPROVED BY THE CONSULTANT IN WRITING PRIOR TO INSTALLATION. ANY DEVIATIONS FROM THE DRAWINGS THAT ARE NOT APPROVED BY THE CONSULTANT, MAY REQUIRE RE-WIRING AT THE CONTRACTOR'S EXPENSE.

ELECTRICAL CLOSEOUT LETTER / BINDER DOCUMENTS

- A.1. PROVIDE CLOSEOUT DOCUMENTS FOR CLOSE OUT LETTER AFTER SUBSTANTIAL COMPLETION OF THE INSTALLATION
- A.1.1 ESA INSPECTION CERTIFICATE
- A.1.2 EMERGENCY LIGHTING TESTING (LUX READINGS) REPORT (MIN. 20 READINGS).
- A.1.3 FIRE ALARM VERIFICATION REPORT C/W DBA TEST READINGS (APPLIES TO PROJECTS WITH FIRE ALARM SYSTEMS)
- A.1.4 SEISMIC ENGINEERS SIGN-OFF, SEALED BY A PROFESSIONAL ENGINEER (APPLIES TO PROJECTS IN A SEISMIC ZONE)
- A.2. PROVIDE CLOSEOUT DOCUMENTS FOR CLOSE OUT BINDER AFTER SUBSTANTIAL COMPLETION OF THE INSTALLATION
- A.2.1 AS-BUILT DRAWINGS WITH CLEAR INFORMATION OF ALL JUNCTION BOXES AND INTERCONNECTED CONDUITS LOCATION
- A.2.2 PRINTED COPY OF PANEL SCHEDULES.
- A.2.3 ELECTRICAL LOAD AND BALANCE REPORT
- A.2.4 WARRANTY LETTER
- A.2.5 MAINTENANCE MANUALS
- A.2.6 APPROVED AND STAMPED SHOP DRAWINGS
- A.2.7 ARC FLASH COORDINATION STUDY AND SHORT CIRCUIT ANALYSIS

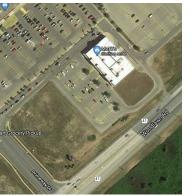
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Context Plan



General Notes

1. ALL DIMENESIONS IN IMPERIAL. VERIFY ALL DIMENSIONS. . DO NOT SCALE DRAWINGS

4. CHECK DRAWINGS AGAINST SPECIFICATIONS. USE THE LATEST REVISED DRAWINGS ONLY. . REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SCHEDULES,

DISCOVERED ERRORS, OR OMISSIONS, TO THE

ARCHITECT AND LCBO DURING TENDER PERIOD

AND BEFORE PROCEEDING WITH ANY WORK. DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT, AND MUST BE

RETURNED UPON COMPLETION OF WORK. . TO VIEW A LIST OF BIDDERS FOR THIS PROJECT.

PLEASE GO TO: WWW.BIDDINGO.COM/LCBO

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LCBO Store No. 312 TORONTO, ON Interior Fit-up

ELECTRICAL LEGEND OF SYMBOLS

E-1

REFLECTED CEI	LING LIGHTING LEGEND				LAMP SCHEDULE							
SYMBOL	DESCRIPTION	LAMP/ WATTS	REMARKS	NOTES	LAMP #	LAMP TYPE	WATTAGE	BASE	BEAM SPREAD	LAMP LIFE	COLOUR TEMP.	CRI
•	4" DIA. EXTERIOR RECESSED LED DOWNLIGHT BY: JUNO LIGHTING INDY L4 SERIES HYPERBOLIC OPEN APERTURE MEDIUM/WIDE BEAM C/W CLEAR SATIN FLANGE FINISH PRODUCT #L4-17-30-120-L400HW-CL-S	23W INTEGRAL LED	LOCATED IN UNDERSIDE OF CANTILEVERED CANOPY AT STOREFRONT ENTRANCE DOORS	SUPPLIED AND INSTALLED BY LANDLORD'S G.C. REFLECTOR L400HW-CLEAR-SATIN FLANGE	L1	LOW IRIDESCENT SPECULAR LED	23 W	N/A	N/A	>50,000 HRS	3000 K	80
К�	4" DIA. RECESSED LED DOWNLIGHT BY: JUNO LIGHTING INDY L4 SERIES HYPERBOLIC OPEN APERTURE MEDIUM/WIDE BEAM C/W WHITE FLANGE FINISH PRODUCT #L4-17-30-120-L400H-CL-WH	22W INTEGRAL LED	DRYWALL CEILING WITHIN VESTIBULE AND DRYWALL CEILINGS IN VINTAGES AREA. ELECTRICAL ENGINEER TO ENSURE LIGHTS CLOSE TO WINDOW ARE IN SEPARATE CIRCUITS.	REFLECTOR L4OOHW-CLEAR-SPECULAR-WHITE FLANGE	L2	LOW IRIDESCENT SPECULAR LED	22 W	N/A	N/A	>50,000 HRS	3000 K	80
MΦ	NARROW FLOOD TRACK LIGHTING BY: JUNO LIGHTING TRAC-MASTER CYLINDRA LED ALUMINUM FINISH AND TRACK TO MATCH PRODUCT #T254L-3K-N	15W T254L LED	CEILING & VINTAGES DRYWALL CEILING	ALUMINUM TRACK & TRACK HEADS C/W REQUIRED FEEDS, JOINERS, CONNECTORS ETC. VINTAGES AREA REQUIRES ADDITIONAL LINE VOLTAGE EXTENSION WAND FOR EACH TRACK HEAD (PRODUCT # T12, T18, T24, T36 OR T48 - LENGTH DEPENDANT ON TRACK MOUNTING HEIGHT - CONFIRM PRIOR TO ORDERING) FINISH ALUMINUM TO MATCH TRACK		T254L LED CYLINDRA LED	15 W	N/A	28° NARROW FLOOD	>50,000 HRS	3000 K	85
N	WALL WASHER TRACK LIGHTING BY: JUNO LIGHTING TRAC-MASTER 35W LED WALL WASH/FLOOD ALUMINUM FINISH AND TRACK TO MATCH PRODUCT #T256LED-3K-SL	35W T256L LED	LOCATED IN GENERAL RETAIL AREA, BCR T-BAF CEILING	ALUMINUM TRACK & TRACK HEADS C/W REQUIRED FEEDS, JOINERS, CONNECTORS ETC.	L4	T256 LED WALL WASH/FLOOD LED	35 W	N/A	N/A	>50,000 HRS	3000 K	85
c==3 24"	LENGTH: 24" LONG T5 SINGLE CFI FLUORESCENT LIGHT FIXTURE BY: CANLYTE PRODUCT #SV2S114-UNV (HOUSING) PRODUCT #F14T5-830-ALTO (LAMP)	1 x 14W T5 FLUORESCENT	UNDER CABINET LIGHTING LOCATED IN OFFICE STAFF KITCHEN AND BEHIND SIGN BAND FASCIA - ELECTRONIC BALLAST BEHIND SIGN BAND FASCIA	COOPER LIGHTING #SNF-114T5-UNV-EBT1-U (METALUX) REFER TO PLAN FOR REQUIRED QUANTITY	F8	24" T5 LONG-LIFE LINEAR FLUORESCENT TUBE	14 W	BI-PIN	N/A	>20,000 HRS	3500 K	85
===== 36"	LENGTH: 36" LONG T5 SINGLE CFI FLUORESCENT LIGHT FIXTURE BY: CANLYTE PRODUCT #SV3S121-UNV (HOUSING) PRODUCT #F21T5-830-ALTO (LAMP)	1 x 21W T5 FLUORESCENT	UNDER CABINET LIGHTING LOCATED IN OFFICE, STAFF KITCHEN AND BEHIND SIGN BAND FASCIA - ELECTRONIC BALLAST BEHIND SIGN BAND FASCIA	COOPER LIGHTING #SNF-121T5-UNV-EBT1-U (METALUX) REFER TO PLAN FOR REQUIRED QUANTITY	F9	36" T5 LONG-LIFE LINEAR FLUORESCENT TUBE	21 W	BI-PIN	N/A	>20,000 HRS	3500 K	85
====== 48"	LENGTH: 36" LONG T5 SINGLE CFI FLUORESCENT LIGHT FIXTURE BY: CANLYTE PRODUCT #SV3S121-UNV (HOUSING) PRODUCT #F21T5-830-ALTO (LAMP)	1 x 28W T5 FLUORESCENT	UNDER CABINET LIGHTING LOCATED IN OFFICE, STAFF KITCHEN AND BEHIND SIGN BAND FASCIA - ELECTRONIC BALLAST BEHIND SIGN BAND FASCIA	COOPER LIGHTING #SNF-128T5-UNV-EBT1-U (METALUX) REFER TO PLAN FOR REQUIRED QUANTITY	F10	48" T5 LONG-LIFE ENERGY SAVER LINEAR FLUORESCENT TUBE	28 W	BI-PIN	N/A	>50,000 HRS	3500 K	85
S6	6'-0" SUSPENDED LINEAR'S BY: AXIS LIGHTING (REFER TO RCP PLAN PG 5) BEAM 2 LED-BDLED-B1-750-30-SO S#AP-120 C/W CA#8'-0" AIRCRAFT CABLE/POWER CORD FINISH: ALUMINUM PAINT CONTACT: SALEX - ROHAN PERIANA. CELL NO. 416-457-6432. EMAIL:RPERIANA@SALEX.CA	1.875W/L.F INTEGRAL LED	CENTERED ABOVE CASH/CHECK-OUT COUNTER, SUSPENDED AT 9'-6" A.F.F. TO UNDERSIDE	JOINERS, POWER CORD & AIRCRAFT MOUNTING KITS AND ALL OTHER PARTS REQUIRED, REFER TO PENDANT INSTALLATION INSTRUCTION FROM MANUFACTURER. AIRCRAFT CABLE & POWER TO BE MIN. 8'-0" LENGTH. G.C. TO CONFIRM LENGTH FROM TOP CLG. JOISTS TO 9'-6" A.F.F. LED LIGHTING PILOT		LED LINEAR	11 W	N/A	N/A	>50,000 HRS	3000 K	85
S8A	8'-0" SUSPENDED LINEAR'S BY: AXIS LIGHTING (REFER TO RCP PLAN PG 5) BEAM 2 LED- W/ 2 SPOTS C/W CA#6'-0" AIRCRAFT CABLE/POWER CORD BDLED-B1-750-30-SO-5-(2X) MR11LED-S#AP-120 C/W JOINERS G.C. TO CONFIRM LENGTH FROM U/S CLG. JOISTS TO 11'-6" A.F.F. FINISH: ALUMINUM PAINT AVAIL. SIZES: 12', 8', 6', 5', 4', 3', 2 CONTACT: SALEX - ROHAN PERIANA. CELL NO. 416-457-6432. EMAIL:RPERIANA@SALEX.CA	3W/SPOT	OPEN CEILING IN GENERAL RETAIL AREA	JOINERS, POWER CORD & AIRCRAFT MOUNTING KITS AND ALL OTHER PARTS REQUIRED, REFER TO PENDANT INSTALLATION INSTRUCTION FROM MANUFACTURER. AIRCRAFT CABLE & POWER TO BE MIN. 6'-0" LENGTH. G.C. TO CONFIRM LENGTH FROM U/S CLG. JOISTS TO 11'-6" A.F.F. LED LIGHTING PILOT		LED LINEAR WITH SINGLE HEAD LED ADJUSTABLE SPOT LIGHTS	21 W	N/A	N/A	>50,000 HRS	3000 K	85
S12A	12'-0" SUSPENDED LINEAR'S BY: AXIS LIGHTING (REFER TO RCP PLAN PG. 5) BEAM 2 LED- W/ 2 SPOTS C/W CA#6'-0" AIRCRAFT CABLE/POWER CORD BDLED-B1-750-30-SO-5-(2X) MR11LED-S#AP-120 C/W JOINERS G.C. TO CONFIRM LENGTH FROM U/S CLG. JOISTS TO 11'-6" A.F.F. FINISH: ALUMINUM PAINT AVAIL. SIZES: 12', 8', 6', 5', 4', 3', 2 CONTACT: SALEX - ROHAN PERIANA. CELL NO. 416-457-6432. EMAIL:RPERIANA@SALEX.CA	1.875W/L.F 3W/SPOT INTEGRATED LED	OPEN CEILING IN GENERAL RETAIL AREA	JOINERS, POWER CORD & AIRCRAFT MOUNTING KITS AND ALL OTHER PARTS REQUIRED, REFER TO PENDANT INSTALLATION INSTRUCTION FROM MANUFACTURER. AIRCRAFT CABLE & POWER TO BE MIN. 6'-0" LENGTH. G.C. TO CONFIRM LENGTH FROM U/S CLG. JOISTS TO 11'-6" A.F.F. LED LIGHTING PILOT		LED LINEAR WITH SINGLE HEAD LED ADJUSTABLE SPOT LIGHTS	29 W	N/A	N/A	>50,000 HRS	3000 K	85
	2x2 RECESSED LED FIXTURE BY LITHONIA LIGHTING ACLED SERIES 2'X2' FINISH: WHITE PRODUCT #2ACL2 40L EZ1 LP830	38W LP830 LED	LOCATED IN OFFICE, BCR, STAFF KITCHEN AND STAFF WASHROOMS		L13	LP830 LED (X1)	38 W	N/A	N/A	>50,000 HRS	3500 K	82
F	LITHONIA LED LIGHTING-IBL SERIES #12L-WD-SD125-LP735 DLC WIDE DISTRIBUTION W/ LENS, FRAME AND DOOR FINISH: WHITE	100W INTEGRAL LED	WAREHOUSE		L15	LED DOWN	100 W	N/A	WIDE	>60,000 HRS	3500 K	70
—— Н	CFI- FLUXSTREAM 48" LONG LED LINEAR REFLECTOR LUMINAIRE #FSS-4-40L-835-UNV-DIM C/W WIRE GUARD FSSWG4 (WHITE)	31W INTEGRAL LED	JANITOR ROOM WALL MOUNTED CENTERED ON WALL AT 8'-0" A.F.F		L16	LED STRIP	31 W	N/A	N/A	>50,000 HRS	3500 K	80
	CFI- FLUXSTREAM 48" LONG LED LINEAR REFLECTOR LUMINAIRE #FSS-4-40L-835-UNV-DIM C/W WIRE GUARD FSSWG4 (WHITE) C/W CHAIN HANGING KIT AND POWER CABLE KIT.	31W INTEGRAL LED	SERVICE PLATFORM		L16	LED STRIP	31 W	N/A	N/A	>50,000 HRS	3500 K	80
Ø	EMERGENCY LIGHTING REFER TO SECTION 26 51 14 OF THE SRRS		RETAIL, BOH & SERVICE PLATFORM		L17		6 W	N/A			3000 K	80
W	STANPRO MODEL NO.: WP2-L-S2 3-W/50K. OPERATING WATTAGE: 59. LUMEN OUTPUT: 5296. CCT: 5000K. DIMENSIONS: 14.25"L X 11.6"D X 9"HT FINISH: DARK GREY	59W INTEGRAL LED	LOADING (EXTERIOR)		L18	LED DOWN	59 W	N/A	N/A	>100,000 HRS	5000 K	80
6 1	EXTERIOR 1-WAY LIGHT FIXTURE (DOWN ONLY) BY: SISTEMALUX IGUZZINI KRISS DOWNLIGHT # I.5688-SPI001175 W/ 26 WATT BRIDGELUX LED INTEGRATED WITH RECESSED JUNCTION BOX. FINISH: ANTHRACITE (DARK GRAY) CONTACT: BOZENA MALANCZAK TEL: 416-408-3995 EXT. 22	26W INTEGRAL LED	REFER TO EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS. TO BE CENTERED HORIZONTALLY ON PROJECTED BRICK PIERS		L19	INTEGRATED BRIDGELUX MODULE	26 W	N/A	N/A	>50,000 HRS	3000 K	80

LIGHTING DRAWINGS GENERAL NOTES:

- 1. ALL T8/T5 LAMP SPECIFICATIONS MUST USE ONE OF THE FOUR APPROVED MANUFACTURERS; GENERAL ELECTRIC, OSRAM SYLVANIA, PHILIPS LIGHTING, ACUITY LIGHTING.
- 2. ALL BALLAST SPECIFICATIONS MUST USE ONE OF THE FOUR APPROVED MANUFACTURERS; ADVANCE, OSRAM SYLVANIA, UNIVERSAL MAGNETECK, VENTURE.
- 3. ELECTRICAL ENGINEER'S DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL R.C.P. AND LIGHTING LEGEND.
- 4. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE LAMP PACKAGE AND ANY ASSOCIATED
- 5. ALL LIGHT FIXTURES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR.
- 6. THE ELECTRICAL CONTRACTOR SHALL REVIEW FIXTURE QUANTITY RECEIVED AND REPORT ANY FIXTURE QUANTITY DISCREPANCY TO LCBO PROJECT MANAGER.
- 7. ALL LIGHT FIXTURES SHALL BE SUPPLIED BY (ENS), INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 8. COORDINATE EXACT LOCATION OF ALL LUMINAIRES, SWITCHES, WIRING DEVICES, ETC. SHALL BE COORDINATED WITH INTERIOR DESIGNER REFLECTED CEILING PLAN AND WALL ELEVATION DRAWINGS AND WITH THE SITE CONDITION PRIOR TO INSTALLATION AND/OR ROUGHING-IN UNLESS OTHERWISE NOTED.
- 9. THE LIGHTING SPECIFICATION FOR ALL LIGHT FIXTURES NOTED ON THE LEGEND OF DRAWING E-1 SHALL SUPERSEDE WHAT IS INDICATED IN SPECIFICATION SECTION 26 51 14 FOR THE SAME LIGHT.



IBI GROUP

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Context Plan



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 2. VERIFY ALL DIMENSIONS.
 3. DO NOT SCALE DRAWINGS
 4. CHECK DRAWINGS AGAINST SPECIFICATIONS.
 5. USE THE LATEST REVISED DRAWINGS ONLY.
 6. DEPORT ANY DISCREPANCIES BETWEEN. 6. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SCHEDULES, DISCOVERED ERRORS, OR OMISSIONS, TO THE
- ARCHITECT AND LCBO DURING TENDER PERIOD AND BEFORE PROCEEDING WITH ANY WORK. DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT, AND MUST BE
- RETURNED UPON COMPLETION OF WORK. 8. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT, PLEASE GO TO: WWW.BIDDINGO.COM/LCBO

5	2020/09/10	Issued For Tender	MP
4	2020/08/04	Issued For Permit	MP
3	2020/07/16	90% Drawing Review	MP
2	2020/07/07	60% Drawing Review	MP
1	2020/06/18	30% Drawing Review	MP
Rev.	Date	Description	Init

Issued For Tender								
2020/09/10 Issue Date:								
171-02500-D7		MP	MP					
Project No.:	Scale:	Drawn By:	Checked By:					

LCBO Store No. 312 TORONTO, ON Interior Fit-up

LUMINAIRES SCHEDULE

E-2

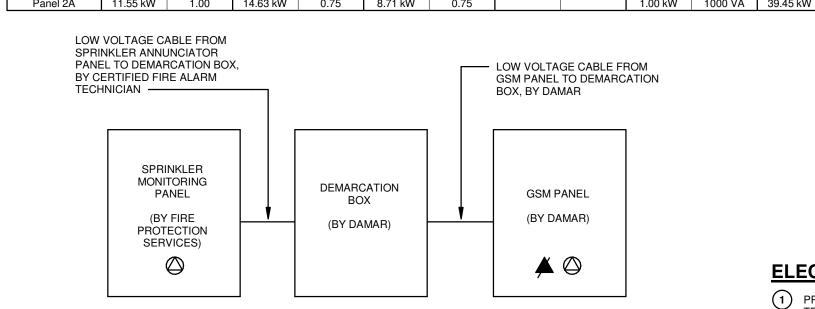
R5

PANEL: 2L										⊠ NEW □ EXISTING
LOAD DESCRIPTION	NOTE	BRKR	CCT No.	A	В	С	CCT No.	BRKR	NOTE	LOAD DESCRIPTION
EXIT SIGNAGE + BATTERY UNIT	*	15 A	1	742 / 44			2	20 A		ZONE 6 - VESTIBULE LIGHTING
ZONE 3 - CASH DESK LIGHTING		20 A	3		23 / 459		4	20 A		ZONE 8 - EXTERIOR SCONCE +.
ZONE 1 - EMPLOYEE WAREHOUSE		20 A	5			724 / 184	6	20 A		ZONE 1 - RETAIL CUSTOMER LIGHTIN
ZONE 2 - CUSTOMER WAREHOUSE		20 A	7	600 / 184			8	20 A		ZONE 2 - RETAIL CUSTOMER LIGHTIN
NIGHT LIGHTING		20 A	9		879 / 228		10	20 A		ZONE 1 - EMPLOYEE COLD ROO
		20 A	11			0 / 228	12	20 A		ZONE 2 - CUSTOMER COLD ROO
		20 A	13	0 / 118			14	20 A		ZONE 8 - EXTERIOR WALL PAC
		20 A	15		0/0		16	20 A		
ZONE 1 - EMPLOYEE TRACK LIGHTING		20 A	17			640 / 250	18	20 A		ZONE 7 - LCBO CHANNEL LETTER
ZONE 1 - EMPLOYEE TRACK LIGHTING		20 A	19	540 / 250			20	20 A		ZONE 7 - LCBO CHANNEL LETTER
ZONE 4 - RETAIL TRACK LIGHTING		20 A	21		425 / 0		22	20 A		
ZONE 4 - RETAIL TRACK LIGHTING		20 A	23			150 / 0	24	20 A		
ZONE 3 - RETAIL VALENCE LIGHTING		20 A	25	812 / 0			26	20 A		
WASHROOM & STAFF AREA LIGHTING		20 A	27		520 / 750		28	15 A		ZONE 6 - EXTERIOR AWNIN
		20 A	29			0 / 500	30	15 A		ZONE 6 - EXTERIOR AWNIN
ZONE 4 - GIFT / SPIRITS LIGHTING		15 A	31	474 / 0			32	20 A		
ZONE 3 - COOLER VALENCE LIGHTING		20 A	33		546 / 0		34	20 A		
ZONE 4 - COOLER DAIRY LIGHTING		20 A	35			500 / 0	36	20 A		
ZONE 5 - DAYLIGHT HARVESTING		20 A	37	45 / 0			38			
ZONE 4 - COOLER TRACK LIGHTING		20 A	39		745 / 0		40	30 A		TVS
		20 A	41			0/0	42			
VOLTAGE: 120/208 V		PH/	ASE A:			3.8 kVA			REC	DESSED:
PHASE: 3		PHA	ASE B:			4.6 kVA			SUF	RFACE:
WIRE: 4		PHASE C: 3.2 kVA				DRI	RIP HOOD:			
MAINS: 225 A		TOTAL CONNECTED LOAD: 11.6 kVA				FEED THROUGH LUGS:				
KAIC RATING: 22kAI		TOT	TAL DE	EMAND LO	AD:	11.6 kVA				N BREAKER:
LOCATION: FED FROM: 2A										ENOTES NEW BREAKER ENOTE LOCK-ON TYPE BREAKER
									** D	ENOTES GFCI TYPE BREAKER

NOTES: 1. ALL BREAKERS ARE NEW

2. PANEL TO BE IN AN EEMAC 2 ENCLOSURE, GASKETED, SPRINKLER PROOF C/W DRIP SHIELD & DOOR

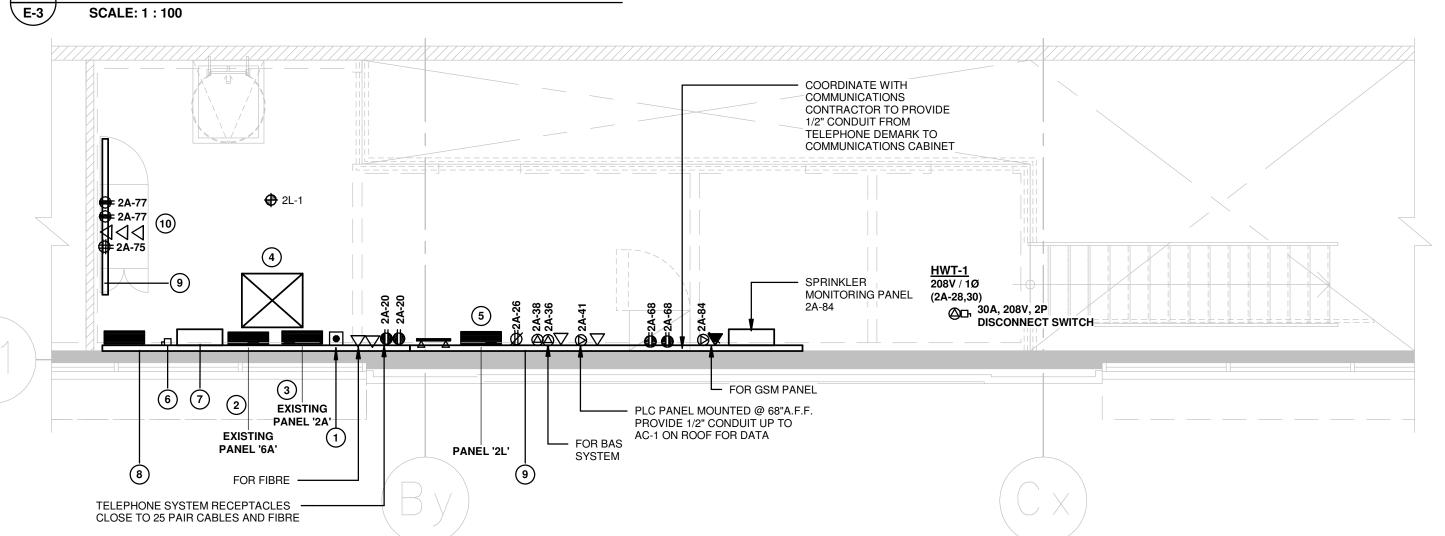
DEMAND LOAD CALCULATION											
EQUIPMENT NAME	LIGHTING		RECEPTACLES		MISC. POWER		HVAC LOAD		REFRIGERATION		TOTAL
	LOAD	DEMAND FACTOR	LOAD	DEMAND FACTOR	LOAD	DEMAND FACTOR	LOAD	DEMAND FACTOR	LOAD	DEMAND FACTOR	TOTAL LOAD
Panel 6A	11.55 kW	1.00	14.63 kW	0.75	9.21 kW	0.75			22.82 kW	22823 VA	134.07 kW
Panel 2A	11.55 kW	1.00	14.63 kW	0.75	9.21 kW	0.75			1.00 kW	1000 VA	39.82 kW
Panel 2L	11.55 kW	1.00			0.01 kW	0.75					11.56 kW
EXISTING 75KVA TRANSFORMER	11.55 kW	1.00	14.63 kW	0.75	9.21 kW	0.75			1.00 kW	1000 VA	39.82 kW
Panel 2A	11 55 kW	1.00	14 63 kW	0.75	8 71 kW	0.75			1 00 kW	1000 \/Δ	39.45 kW

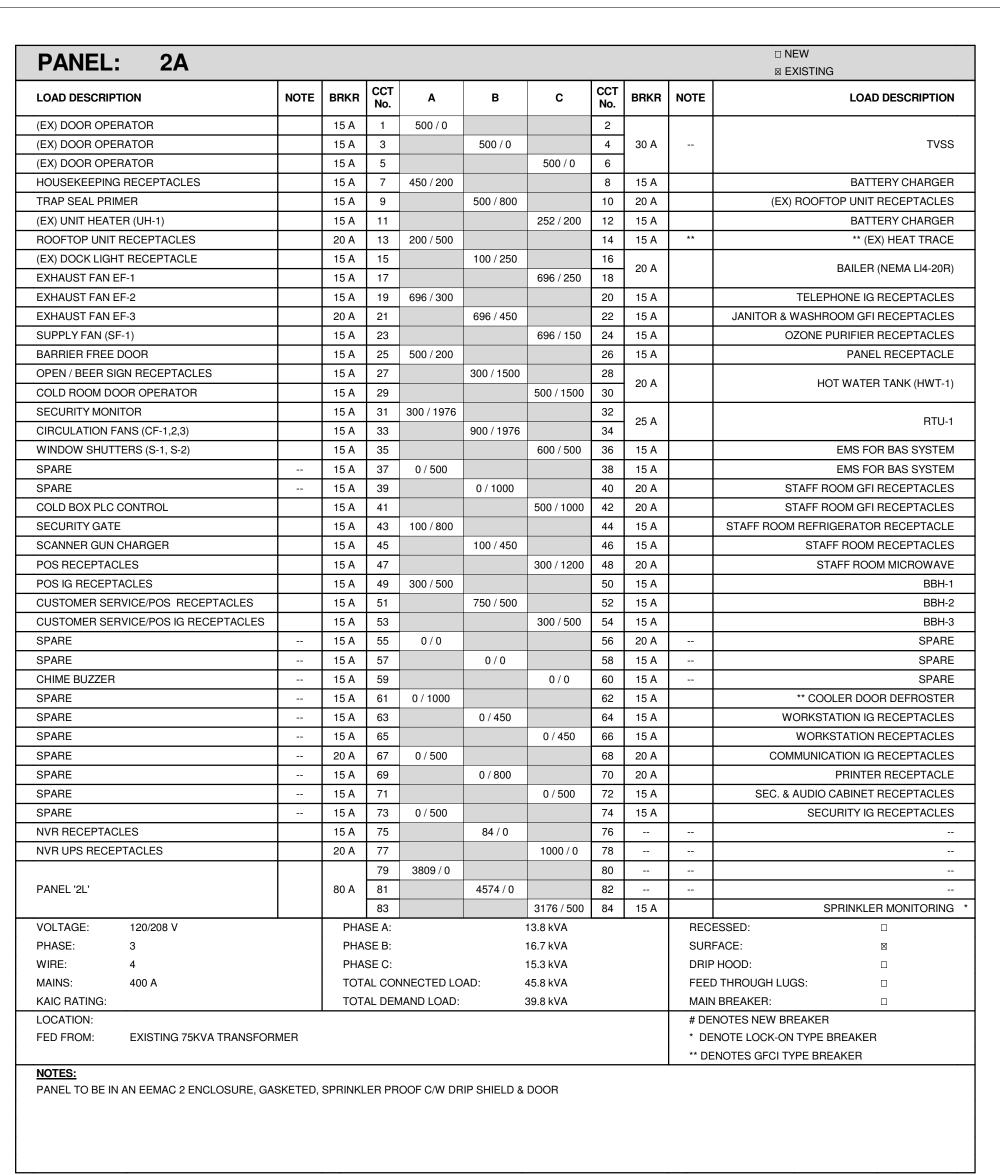


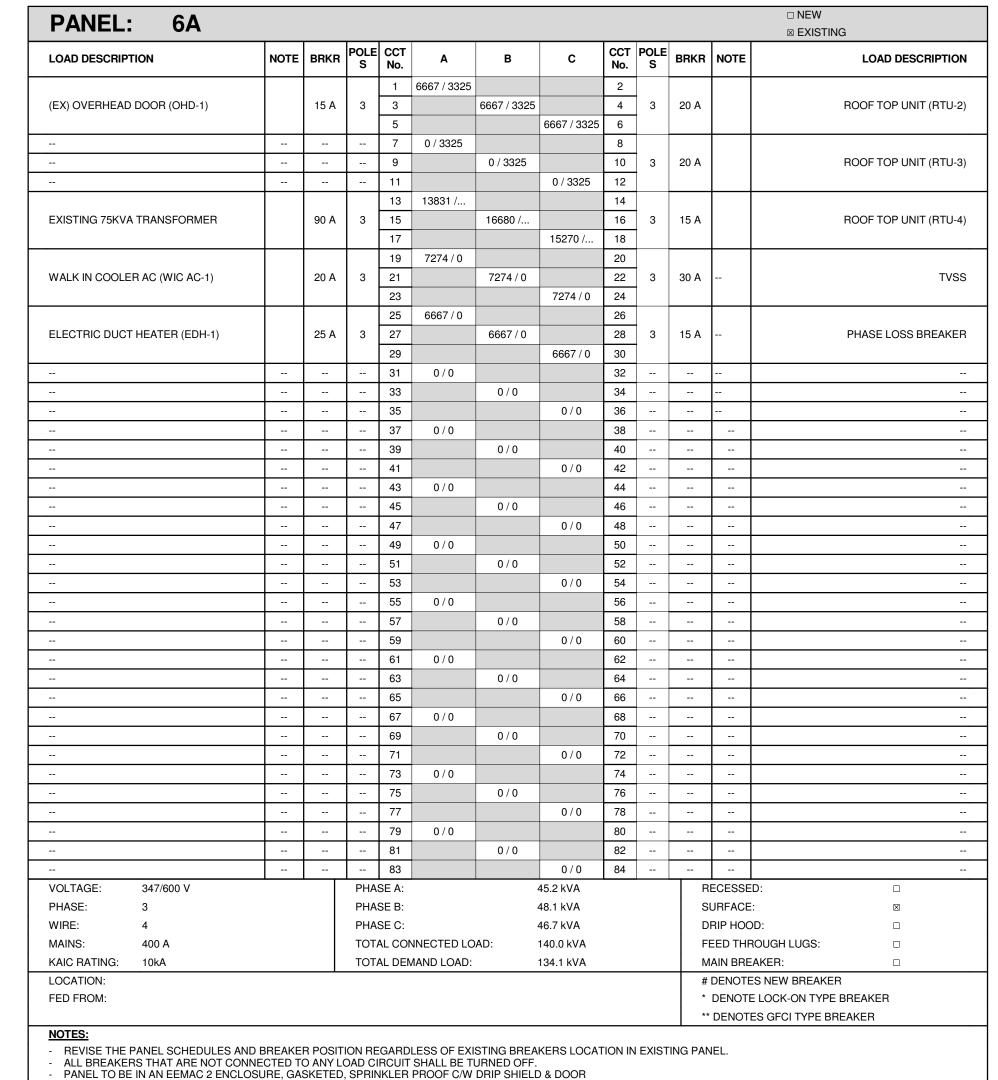
NOTES:

- COORDINATE WITH BELL TO PROVIDE TELEPHONE CONNECTION TO GSM PANEL AND WITH DAMAR TO PROVIDE DEMARCATION BOX AND CONNECTION TO REMOTE MONITORING SYSTEM.
- ELECTRICAL CONTRACTOR SHALL ENGAGE A CERTIFIED FIRE ALARM TECHNICIAN TO PERFORM ALL CONNECTIONS FROM THE SPRINKLER DEVICES TO THE DEMARCATION BOX.
- COORDINATE WITH FIRE PROTECTION SERVICES TO PROVIDE CONNECTION FROM SPRINKLER DEVICES TO SPRINKLER MONITORING PANEL AND TO DEMARCATION BOX.
- CONFIRM EXACT NUMBER OF SPRINKLER DEVICES AND CONTACTS REQUIRED WITH FIRE PROTECTION SERVICES TO ENSURE AN APPROPRIATELY SIZED SPRINKLER MONITORING PANEL IS PROVIDED. SPRINKLER MONITORING PANEL SHALL BE MIRCOM FA-106 OR MIRCOM FA-1008KASD WHERE MORE CONTACTS ARE REQUIRED.
- PROVIDE SEPARATE 120V POWER CONNECTIONS TO THE SPRINKLER MONITORING AND GSM PANELS. CIRCUITS MAY BE FED FROM THE SAME LOCK-ON TYPE BREAKER.
- PROVIDE SHOP DRAWING OF SPRINKLER MONITORING PANEL FOR CONSULTANT REVIEW PRIOR PURCHASE AND INSTALL OF PANEL.

SPRINKLER MONITORING DETAIL

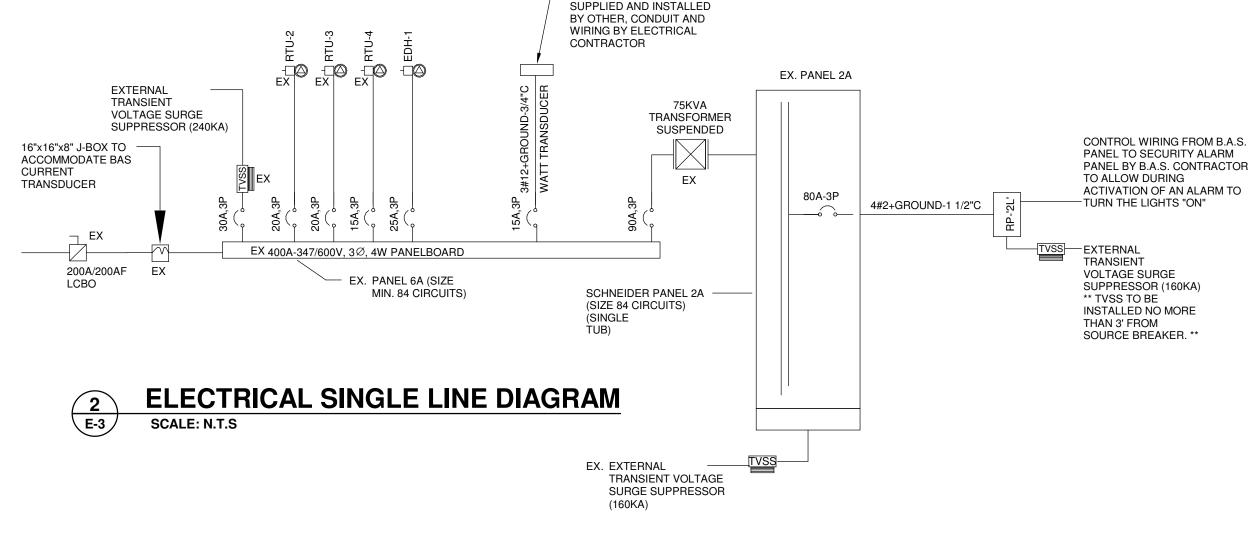






ELECTRICAL DISTRIBUTION KEYNOTES

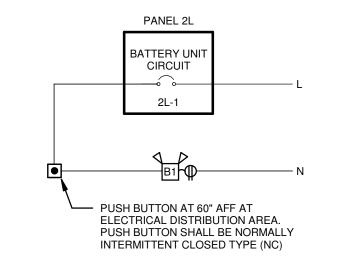
- (1) PROVIDE A NORMALLY CLOSED PUSH BUTTON AT ELECTRICAL DISTRIBUTION AREA (60"AFF) FOR THE EMERGENCY BATTERY UNITS TESTING AND INTERCONNECT THE PUSH BUTTON WITH THE BATTERY UNIT SUCH THAT UPON ACTIVATION OF PUSH BUTTON. THE BATTERY UNIT SHALL BE TEMPORARILY SENSED AS POWER FAILURE THROUGH BUILT-IN 15 MNTS. TIME DELAY SWITCH. ALL EMERGENCY REMOTE HEADS SHALL BE TURNED ON TEMPORARILY UPON ACTIVATION OF PUSH BUTTON. SEE DETAIL FOR 3/E-3 FOR THE CONNECTION. PROVIDE A LAMACOID LABEL AS "EMERGENCY LIGHT TEST
- (2) EXISTING 400A, 347/600V, 3Ø,4W PANEL "6A"
- EXISTING PANEL 2A (400A @ 120/208V, 3Ø, 4W, 84 CCTS)
- (4) EXISTING 75kVA TRANSFORMER (SUSPENDED)
- NEW PANEL 2L (225A @ 120/208V, 3Ø, 4W, 42 CCT)
- (6) EXISTING MAIN DISCONNECT SWITCH
- (7) EXISTING 16X16X8" JUNCTION BOX BY LANDLORD
- B) EXISTING BACKBOARD PLYWOOD NEW FIRE RATED PLYWOOD BACKBOARD TO MATCH EXISTING BY ELECTRICAL CONTRACTOR
- PROVIDE 2 DUPLEX IG RECEPTACLES AND DATA OUTLETS IN NVR RACK TERMINATED WITH 3m (10') SLACK FOR CONNECTION TO DVR AND UPS. TERMINATE VOICE CABLE AT TELEPHONE DEMARCATION POINT IN CA38A JACK. RECEPTACLE AND DATA OUTLETS SHALL BE INSTALLED ON PLYWOOD.



WATT TRANSDUCER

ELECTRICAL DISTRIBUTION GENERAL NOTES:

- NEW PANEL LP-2L, 225A, 120/208V, 3∅, 4W SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. PANEL '2L' SHALL BE 'SQUARE D POWER LINK' COMPLETE WITH BUILT-IN G43500 LIGHTING CONTROLLER. ELECTRICAL CONTRACTOR TO PROVIDE POWERLINK ECB SERIES BREAKER. BREAKER QUANTITY TO SUIT PANEL SCHEDULES. SEE SRRS FOR PANEL SPECIFICATION.
- 2. COLD BOX PLC CONTROLLER SHALL BE SUPPLIED BY REFRIGERATION CONTRACTOR- CONDUIT AND WIRING FOR PLC CONTROLLER BY ELECTRICAL CONTRACTOR. PLC CONTROLLER LOCATION SHALL BE COORDINATED ON SITE WITH REFRIGERATION CONTRACTOR.
- 600V NEUTRAL SHALL BE BONDED AND GROUNDED AS PER ONTARIO ELECTRICAL SAFETY CODE.
- 4. PROVIDE 1/2" CONDUIT FROM COLD BOX PLC CONTROLLER TO COLD ROOM ROOF MOUNTED AIR CONDITION UNITS AS SHOWN. DATA CABLES COMPLETE WITH RJ45 CONNECTORS SHALL BE SUPPLIED AND INSTALLED BY THE REFRIGERATION CONTRACTOR, EMPTY CONDUIT BY THE ELECTRICAL CONTRACTOR.
- 5. PROVIDE PRINTED PANEL DIRECTORY WITH CIRCUIT NUMBER, TYPE AND LOCATION OF ALL LOADS FOR ALL NEW AND EXISTING PANELS. LABEL ALL SPARE BREAKERS WITH PENCIL FOR FUTURE UPDATE. PROVIDE LABEL INSIDE PANEL COVER STATING YEAR OF INSTALLATION, PANEL SOURCE LOCATION, OVER CURRENT PROTECTION AND FEEDER SIZE. (TYPICAL FOR ALL PANELS).
- 6. ALL BREAKERS THAT ARE NOT CONNECTED TO ANY LOAD CIRCUIT SHALL BE TURNED OFF
- 7. PROVIDE FIELD MARK LABEL FOR POTENTIAL ELECTRIC SHOCK AND ARC FLASH HAZARDS FOR ALL NEW AND EXISTING PANELS. ALL MARKINGS SHALL BE CLEARLY VISIBLE AS PER ONTARIO ELECTRICAL SAFETY CODE, SECTION 2-306. ALL COST SHALL BE CARRIED BY
- 8. PROVIDE EXTERNAL TVSS SYSTEM FOR LIGHTING PANEL AS PER ELECTRICAL SPECIFICATION. TVSS TO BE INSTALLED NO MORE THAN 3' FROM SOURCE BREAKER OF THE ASSOCIATED PANEL. SEE DETAIL 4/E-8.
- 9. THE BREAKERS SHALL BE ARRANGED AS PER PANEL 2A AND 6A SCHEDULES REGARDLESS OF EXISTING BREAKER POSITION. ELECTRICAL CONTRACTOR TO DISCONNECT THE EXISTING CONNECTION FROM PANELS PROVIDED BY LANDLORD AND RECONNECT AS PER LCBO PANEL SCHEDULES AND FLOOR PLAN.
- 10. ALL CONDUITS, JUCTIN BOXES AND DATA CABLES SHALL BE WHITE IN COLOUR FOR RETAIL AREA AND BLACK IN VINTAGE AREA
- 11. 25 PAIRS OF TELEPHONE CABLE AND INTERNET HIGH SPEED CABLING BY LANDLORD. VERIFY ON SITE FOR AVAILABILITY AND INFORM





∖ E-3 /

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Context Plan



General Notes ALL DIMENESIONS IN IMPERIAL VERIFY ALL DIMENSIONS.

- DO NOT SCALE DRAWINGS CHECK DRAWINGS AGAINST SPECIFICATIONS USE THE LATEST REVISED DRAWINGS ONLY. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SCHEDULES, DISCOVERED ERRORS, OR OMISSIONS, TO THE ARCHITECT AND LCBO DURING TENDER PERIOD AND BEFORE PROCEEDING WITH ANY WORK.
- DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT, AND MUST BE RETURNED UPON COMPLETION OF WORK. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT

PLEASE GO TO: WWW.BIDDINGO.COM/LCBO

2020/08/04 Issued For Permit 2020/07/16 90% Drawing Review 60% Drawing Review 2020/06/18 30% Drawing Review

Issued For Tender 2020/09/10

As indicated MP

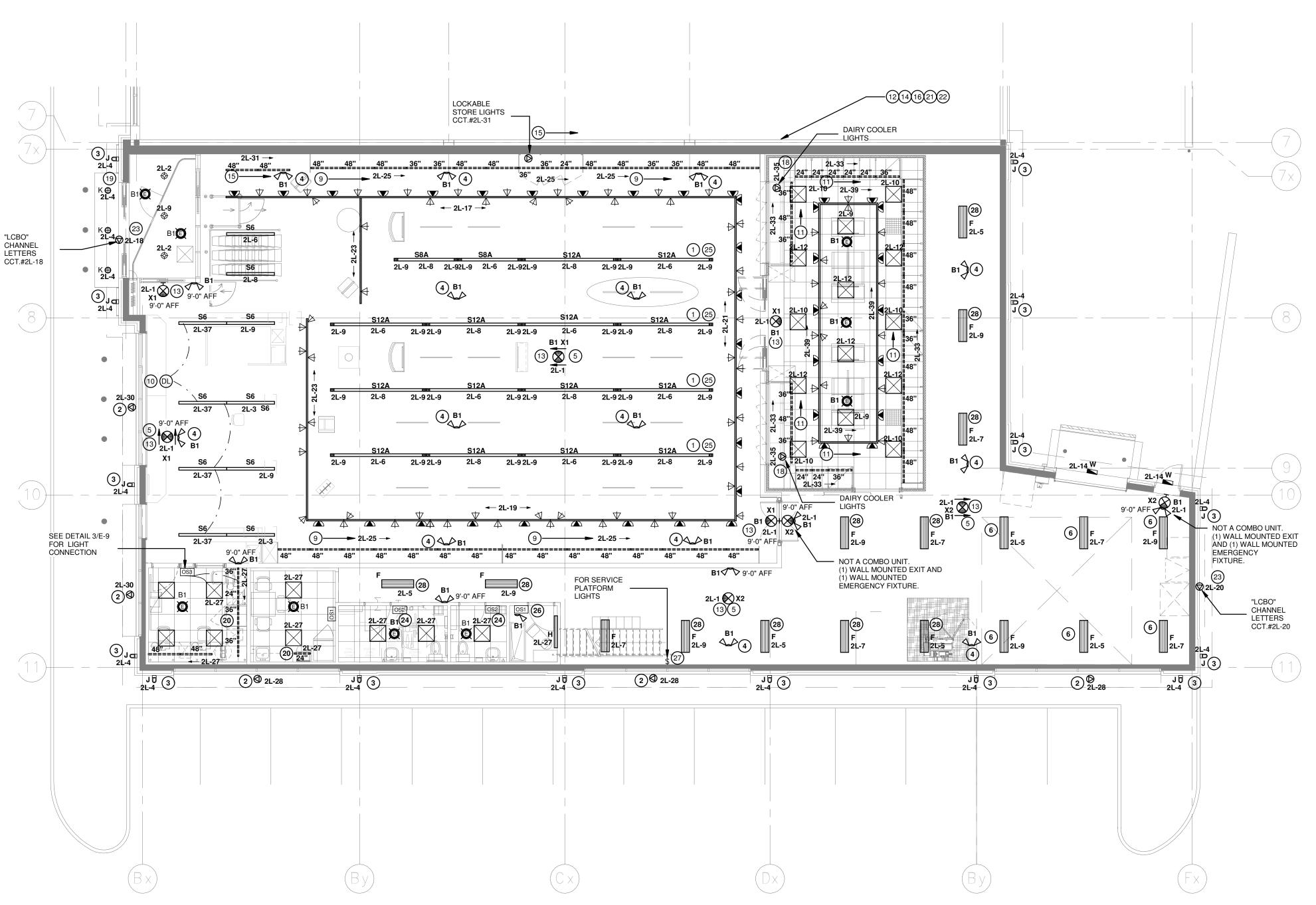
LCBO Store No. 312 TORONTO, ON Interior Fit-up

SINGLE LINE DIAGRAM AND PANEL SCHEDULES

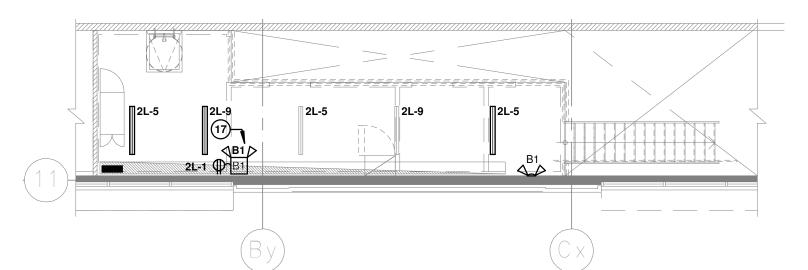
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R5





1 ELECTRICAL LIGHTING LAYOUT SCALE: 1/8" = 1'-0"



SERVICE PLATFORM LIGHTING LAYOUT

ELECTRICAL LIGHTING KEYNOTES:

- WHERE A NIGHT LIGHT CIRCUIT IS SHOWN FOR A LINEAR 8'-0" OR LONGER RETAIL FIXTURE, LIGHT FIXTURE MUST HAVE A SEPARATE INTERNAL JUNCTION BOX FOR THE NIGHT LIGHT CIRCUIT. CONTRACTOR MUST COORDINATE THIS WITH THE MANUFACTURER FOR THE ELECTRICAL ADDITIONAL JUNCTION BOX PRIOR TO ORDER. OTHERWISE CONTRACTOR HAS TO FIELD WIRNG ON SITE FOR EACH NIGHT LIGHT FIXTURE AT CONTRACTOR'S OWN COST. (TYPICAL).
- WHERE REFERENCE IS MADE TO THIS NOTE ON PLAN, AWNING LIGHT FIXTURES SHALL BE SUPPLIED AND INSTALLED AT 14'-1"AFF BY LCBO SIGNAGE VENDOR, CONDUIT AND WIRING WITH DESIGNATED CIRCUIT BY ELECTRICAL CONTRACTOR. TYPICAL FOR ALL AWNING LIGHT FIXTURES.
- OCATION OF OCTAGON BOXES PROVIDED BY LANDLORD FOR EXTERIOR LIGHTS AT 11'-5"AFF UNDER SIDE OF ROOF DECK. EXTERIOR LIGHT FIXTURES SHALL BE SUPPLIED BY ENS AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE CONDUIT AND WIRING WITH DESIGNATED CIRCUIT AS SHOWN. TYPICAL FOR ALL EXTERIOR LIGHT FIXTURES. CONDUCTOR TO BE OVERSIZED TO SUIT VOLTAGE
- WHERE REFERENCE IS MADE TO THIS NOTE ON PLAN EMERGENCY REMOTE HEADS SHALL BE SUSPENDED BY STEM ROD TO SUIT THE HIGH CEILING AREA. PROVIDE REQUIRED HARDWIRES, CONDUIT AND WIRING TO SUIT. MOUNTING HEIGHT FOR EMERGENCY REMOTE HEAD SHALL BE SAME AS SUSPENDED LIGHT FIXTURE. COORDINATE ON SITE FOR FINAL HEIGHT FROM FINISHED FLOOR. SEE DETAIL ON DRAWING 6/E-8.
- (5) WHERE REFERENCE IS MADE TO THIS NOTE ON PLAN, EXIT LIGHT SHALL BE SUSPENDED BY STEM ROD TO SUIT THE HIGH CEILING AREA. PROVIDE REQUIRED HARDWIRES, CONDUIT AND WIRING TO SUIT. MOUNTING HEIGHT FOR EXIT SIGN SHALL BE LOWER THAN THE SUSPENDED LIGHT FIXTURE. COORDINATE ON SITE FOR FINAL HEIGHT FROM FINISHED FLOOR. SEE DETAIL ON DRAWING 4/E-8.
- ALL SUSPENDED FLUORESCENT LIGHT FIXTURES IN WAREHOUSE AREA TO BE MOUNTED AT HIGH LEVEL EVEN WITH UNDERSIDE OF "OWS," AND BETWEEN THE BEAM JOISTS UNLESS OTHERWISE NOTED. COORDINATE ALL LIGHTING FIXTURE MOUNTING HEIGHTS TO BE BELOW OTHER TRADE WORKS TO AVOID SHADOWING AND LOSS OF LIGHT (TYPICAL).
- WHERE REFERENCE IS MADE TO THIS NOT ON PLAN, CONTRACTOR TO CONNECT THE MILL WORK BUILT-IN LIGHT FIXTURE FROM ADJACENT LIGHT CIRCUIT.

 (**NOT USED**) LOCATION OF EXISTING OCTAGON BOX PROVIDED BY LANDLORD FOR LCBO STORE SIGNAGE (BOX RECESSED WITHIN
- WALL, MOUNTÉD AT 11'-0"AFF UNDERSIDE OF ROOF DECK. COORDINATE WITH LCBO ARCHITECTURAL ELEVATIONS DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS. FIXTURE TO BE PROVIDED AND INSTALLED BY LCBO SIGNAGE VENDOR,. CONDUIT AND WIRING BY ELECTRICAL CONTRACTOR.

 9 PROVIDE CONNECTION TO PERIMETER STRIP LIGHTS ON BACK SIDE OF FASCIA OF BAND LIGHTS. PROVIDE CONDUIT AND WIRING FOR
- 9 PROVIDE CONNECTION TO PERIMETER STRIP LIGHTS ON BACK SIDE OF FASCIA OF BAND LIGHTS. PROVIDE CONDUIT AND WIRING FOR THE FASCIA BAND LIGHTS CONNECTION. ALL ELECTRICAL CONDUIT AND WIRING CONNECTION TO THE BALLAST FOR ALL PERIMETER LIGHT FIXTURES BY ELECTRICAL CONTRACTOR.
- DAYLIGHT HARVESTING (INTERNAL LIGHT SENSOR), MOUNTED UNDERSIDE CEILING AT THIS LOCATION. SENSOR TO CONTROL FRONT LIGHTING CIRCUIT AND WIRED AFTER G4 POWER LINK LIGHTING CONTROLLER. B.A.S. AND G4 POWER LINK CONTROLLER TO CONTROL TURNS LIGHTS ON/OFF, DAYLIGHT SENSOR TO TURN FRONT LIGHTING OFF WHEN LIGHTING LEVEL IS ABOVE SET POINT. DAY LIGHTING HARVESTING SENSOR SHALL BE SUPPLIED AND INSTALLED BY B.A.S. CONTRACTOR.
- ALL MILL WORK AND PERIMETER VALENCE LIGHT FIXTURES IN RETAIL, VINTAGE AND COLD ROOM AREA SHALL BE SUPPLIED BY ENS AND INSTALLED BY ELECTRICAL CONTRACTOR COMPLETE WITH CONDUIT AND WIRING. LIGHT FIXTURES LENGTH TO SUIT MILL WORK LENGTH.
- PROGRAM AND COMMISSIONING LOW VOLTAGE B.A.S. SYSTEM THROUGH "G4 POWER LINK" CONTROLLER BUILT-IN WITH LIGHTING CONTROL PANEL SHALL BE PERFORMED BY LIGHTING AUTOMATION CONTROLS CONTRACTOR. ALL COST SHALL BE CARRIED BY GENERAL CONTRACTOR.
- CONNECT NEW EXIT SIGNS WHERE SHOWN, 120V, SINGLE/ DOUBLE FACE COMPLETE WITH PICTOGRAM (RUNNING MAN ARROW) AS SHOWN ON DRAWING. NEW EXIT SIGNS SHOULD BE CONNECTED FROM BATTERY UNIT 24V DC AND 120V AC CIRCUIT. ACCEPTABLE: BEGHELLI, EMERGI-LITE, READY-LITE. SEE EMERGENCY LIGHTING SCHEDULE BELOW FOR SPECIFICATION.
- PROVIDE IN CONTRACT PRICE FOR TOTAL OF TWO (2) ADDITIONAL EMERGENCY EXIT LIGHT (LAE SERIES) AND TWO (2) EMERGENCY REMOTE LIGHT (1 RECESSED & 1 SURFACE MOUNTED) WITH 60'-0" OF CONDUIT AND WIRING FOR EACH DEVICE TO SUIT INSPECTOR'S ADDITIONAL REQUIREMENTS. PROVIDE CREDIT AT THE END OF PROJECT IF SPARE DEVICES ARE NOT INSTALLED/REQUIRED.
- MILL WORK LIGHT FIXTURE FOR GIFT FIXTURE SHALL BE SUPPLIED BY ENS AND INSTALLED BY ELECTRICAL CONTRACTOR. LIGHT FIXTURE WIRED AS PER GIFT FIXTURE MILLWORK DETAIL SHALL BE CONNECTED TO EXISTING RECEPTACLE PROVIDED BY LANDLORD MOUNTED BELOW WINDOW SILL PROVIDE A PLUG FOR EACH GIFT FIXTURE IN ORDER TO CONNECT THE LIGHT FIXTURE AS PER MILL WORK DETAIL. VERIFY ON SITE FOR THE RECEPTACLES PRIOR TO CONNECTION OF THE LIGHT FIXTURE. (TYPICAL)
- (16) MOUNTING HEIGHT OF LIGHT SWITCHES SHALL BE 900-1100mm AFF AND SHALL BE COORDINATED WITH ARCHITECTURAL DRAWING.

ELECTRICAL LIGHTING GENERAL NOTES:

- 1. EXACT LOCATIONS OF ALL LIGHT FIXTURES, SWITCHES ETC. SHALL BE CO-ORDINATED WITH OTHER TRADES AND ON SITE PRIOR TO INSTALL ATION AND/OR BOLIGHING-IN.
- 2. FOR TYPE OF SWITCHES FACE PLATES AND FINISH COLOUR, COORDINATE WITH SRRS AND ARCHITECTURAL DRAWING. TYPICAL FOR ALL LCBO SPACE.
- 3. NIGHT LIGHT FIXTURE LOCATIONS ARE SHOWN AT DESIRED POINTS. CONTRACTOR TO CONNECT TO THE DESIGNATED CIRCUIT AND
- 4. PROVIDE NEW SUPPORT CHAIN FOR ALL CEILING MOUNTED LIGHT FIXTURES TO COMPLY THE ESA CODE. SUPPORT ALL LUMINARIES DIRECTLY TO CEILING JOIST/SLAB STRUCTURE, NOT TO CEILING HANGERS, DUCTWORK, PIPING, CABLE TRAYS, ETC. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SUSPENSION DETAIL.
- WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SUSPENSION DETAIL.

 5. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL THREADED ROD AND UNISTRUTS FOR SUSPENDING THE RETAIL AREA TRACK LIGHT FIXTURES. TREADED RODS SHALL BE SPACED OUT BETWEEN THE TRACK SUCH THAT TRACK IS FREE FROM ANY DEFLECTION DUE TO SUSPENDED WEIGHT OF THE TRACK HEAD AND TRACK FIXTURES (TYPICAL). UNISTRUTS SHALL BE INSTALLED ON TOP OF

ROOF JOIST LOCATED BETWEEN THE ROOF DECK FLUTES NOT ON THE BOTTOM CORD. SEE DETAIL ON DRAWING E-3.5.

- 6. TRACK LIGHT FIXTURES ARE SHOWN AS OVERALL LENGTH OF TRACK. ELECTRICAL CONTRACTOR TO ENSURE THAT ALL ACTUAL TRACK LENGTH FIT THE INTENDED DESIGN LAYOUT. ELECTRICAL CONTRACTOR SHALL FIELD ADJUST TRACK TO SUIT ACTUAL LENGTH.
- FLUORESCENT LIGHT FIXTURES AT PERIMETER BULKHEADS TO BE STAGGERED TO AVOID DARK SPOTS. GC TO PROVIDE QUANTITY OF LIGHTS TO SUIT LENGTH OF BULKHEADS.
- EACH REFRIGERATED CASE REQUIRES 120V. CONNECTION UP HIGH AT THE FLUORESCENT LIGHT SWITCH AND FIXTURES SWITCH, FIXTURES & LAMPS SUPPLIED BY REFRIGERATOR CONTRACTOR. POWER SUPPLY TO SWITCH AND BALLAST BY ELECTRICAL CONTRACTOR. VERIFY THE LOCATION OF CONNECTION POINT PRIOR TO ROUGH-IN ON SITE.
- ALL ELECTRICAL CABLES SHALL BE CUT AND ADJUSTED FOR ALL SUSPENDED LIGHT FIXTURES SUCH THAT ELECTRICAL CABLE SHALL BE PARALLEL TO STEM ROD/AIRCRAFT CABLES AND NOT VISIBLE FROM RETAIL AREA.
- 10. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL AIR CRAFT CABLES AND UNISTRUTS FOR SUSPENDING THE RETAIL & WAREHOUSE AREA ALL LIGHT FIXTURES. NO LIGHT FIXTURES SHALL BE FASTENED AND SUSPENDED BY CABLES FROM ROOF DECK. PROVIDE ADDITIONAL UNISTRUT BETWEEN THE JOIST TO TIE THE AIRCRAFT CABLE FOR SUSPENDING THE LIGHT FIXTURES (TYPICAL). UNISTRUTS SHALL BE INSTALLED ON TOP OF ROOF JOIST LOCATED BETWEEN THE ROOF DECK FLUITS NOT ON THE BOTTOM CORD. SEE DETAIL ON DRAWING E-3.5.
- . **IMPORTANT NOTE** COORDINATE WITH HVAC, PLUMBING AND FIRE PROTECTION DRAWINGS AND RESPECTIVE CONTRACTORS ON-SITE. REPORT ALL DISCREPENCIES AND INTERFERENCES TO THE CONSULTANT AND LCBO COORDINATOR PRIOR TO LIGHTING INSTALLATION.

EMERGENCY LIGHTING EQUIPMENT SPECIFICATIONS

SUPPLIED BY ENS, INSTALLED BY DIVISION 26

BATTERY UNIT

24 VOLT, 30 MINUTES OPERATION, OPERATION ON 120 VOLT SINGLE PHASE, PLUG-IN TYPE, LIGHT ACTIVATED TEST SWITCH, FULLY ADJUSTABLE LIGHTING HEADS C/W 6 WATT LED, 591 LUMENS, MR16, SEALED LEAD BATTERY, (10 YEARS), SOLID STATE CHARGER, TEMPERATURE COMPENSATION, SEALED TRANSFER SWITCH, LOW VOLTAGE DISCONNECT, BROWN OUT PROTECTION, BUILT-IN TIME DELAY, BATTERY LOCKOUT CIRCUIT, DUAL DIAGNOSTIC INDICATOR LIGHT, WHITE POLYESTER PAINT. CAT.# RG24S-720-2-LD14-TD-TMBD-LTS

BATTERY UNIT

NEW 24 VOLT, 6 WATT LED, 591 LUMENS ROUND MR16, FRAME-IN KIT C/W INTEGRAL CABLE CLAMPS AND MOUNTING BARS. LUMACELL CAT.# RSTH-19-WH-MR16-LD14

24 VOLT, 6 WATT LED, 591 LUMENS, SURFACE ADJUSTABLE, DOUBLE HEAD LUMACELL CAT.# M-QM-2-LD14

24 VOLT, 6 WATT LED, 591 LUMENS SURFACE ADJUSTABLE, SINGLE HEAD LUMACELL CAT.# M-QM-LD14

EXIT SIGNAGE

INPUT VOLTAGE

- FINISH, LED LIGHT SOURCES, 120 VOLT AC AND 24 VOLT DC OUTPUT.
- X1 LUMACELL LAE SERIES, CAT.# LAE-1/L/R/2/A-OW-ACD (120V/24VDC)

X2 LUMACELL LA SERIES, CAT.# LA-1/2-W-U (120V/24VDC)

EMERGENCY BATTERY UNIT SCHEDULE

LOAD

MAXIMUM

CAPACITY

)	CONNECT EMERGENCY LIGHTING FIXTURES AND NEW BATTERY UNIT TO 120V AND 24DC CIRCUITS AS SHOWN. CONNECT TH	HE REMO

- EMERGENCY FIXTURES TO BATTERY UNIT WITH #10 AWG COPPER WIRE MINIMUM. PROVIDE LARGER GAUGE TO MAITAIN THE 5% MAXIMUM VOLTAGE DROP AS PER ELECTRICAL SAFETY CODE AND AS RECOMMENDED BY THE MANUFACTURER. EACH BATTERY UNIT TO BE COMPLETE WITH A MINIMUM OF 4 CIRCUITS OR TERMINAL BLOCKS WITH SEPARATE FUSES. CONNECT REMOTE FIXTURES TO TERMINAL BLOCKS AS INDICATED BY THE CIRCUIT NUMBER PROVIDE A COMPLETE TESTING OF SYSTEM AND MEASUREMENT OF LIGHT LEVELS TO OBTAIN LOCAL INSPECTION APPROVALS AND PERMITS. A MANUFACTURER'S AUTHORIZED TECHNICIAN SHALL PREPARE AND PROVIDE A SIGNED TEST REPORT VERIFYING THAT THE SYSTEM IS PROPERLY WORKING AND THAT LIGHT LEVELS MEET LOCAL CODE REQUIREMENTS. INCLUDE REQUIRED TEST MEASUREMENTS IN REPORT, AND SUBMIT TO CONSULTANT. ALL COST SHALL BE INCLUDED IN THIS CONTRACT. ALL BATTERY UNIT AND SURFACE MOUNTED EMERGENCY REMOTE HEAD SHALL BE INSTALLED AT 9-0" AFF UNLESS OTHERWISE NOTED.
- ALL CONNECTION TO LED LIGHTING (INTEGRAL TO THE DAIRY DOORS) COMPLETE WITH CONDUIT AND WIRING BY ELECTRICAL CONTRACTOR.
- LED DOWN LIGHT RECESSED FIXTURES IN CANOPY. ROUGH-INS AND LIGHT FIXTURES PROVIDED BY LANDLORD ONLY. ELECTRICAL CONTRACTOR TO PROVIDE NEW CONDUIT AND WIRING TO CONNECT FROM PANEL '2L' AS SHOWN ON PLAN.
- SUPPLY AND INSTALL VALENCE FLUORESCENT STRIP LIGHT IN OFFICE AND STAFF ROOM MILLWORK. REFER TO LCBO ARCHITECTURAL MILLWORK ELEVATION FOR EXACT LOCATION AND DIMENSIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR QUANTITY AND LOCATION OF ALL LIGHTING FIXTURES. THE FIXTURE QUANTITY INDICATED ON THE FIXTURE SCHEDULE IS FOR INFORMATION ONLY, THE CONTRACTOR SHALL COMPARE THE LIGHTING LAYOUT WITH THE FIXTURE SCHEDULE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT DURING TENDER. IF A CLARIFICATION REGARDING THE DISCREPANCIES HAS NOT BEEN ISSUED DURING THE TENDER PERIOD THE CONTRACTOR SHALL INCLUDE THE MAXIMUM CONDITION IN THE TENDER PRICE.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 10% ADDITIONAL LAMP FOR EACH LAMP (EXCEPT LED) TYPE AS SPECIFIED TO LCBO AT THE END OF THE PROJECT. IF THE QUANTITY IS LESS THAN ONE LAMP, THEN ONE LAMP MUST BE SUPPLIED. TURN OVER ALL LAMPS TO THE STORE MANAGER AND OBTAIN SIGNATURE FOR GOODS RECEIVED. INCLUDE A LIST OF LAMP TYPES WITHIN THE MAINTENANCE MANIJALS.
- "LCBO" CHANNEL AND OTHER LETTERED SIGNAGETO BE INSTALLED AND SUPPLIED SIGNAGE VENDOR, POWER CONNECTION TO BE BY LCBO ELECTRICAL CONTRACTOR. SIGNAGE VENDOR TO PROVIDE DRILL THROUGH AT EACH LETTER AND PLACE A LOW VOLTAGE TRANSFORMER IN THE STORE INTERIOR FOR POWER CONNECTION BY LCBO ELECTRICAL CONTRACTOR. TRANSFORMER TO BE LOCATED ON NEAR SIGNAGE., ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATIONS/REQUIREMENTS WITH SIGNAGE VENDOR PRIOR TO INSTALL. PROVIDE POWER WIRING AND CONDUIT FROM PANEL '2L' TO SUIT.. CONTRACTOR TO COORDINATE WITH LCBO ARCHITECTURAL ELEVATIONS DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS.
- OCCUPANCY SENSOR 'OS2' DIP SWITCH SHALL BE SET SUCH THAT ASSOCIATED LIGHT FIXTURES SHALL BE AUTOMATIC 'ON' AND AUTOMATIC 'OFF'.
- ELECTRICAL CONTRACTOR MUST COORDINATE WITH THE MANUFACTURER DURING SHOP DRAWING PROCESS FOR THE LIGHTING CIRCUITS FOR EACH PIECES OF LINEAR RETAIL LIGHT FIXTURES. CONTRACTOR MUST MAINTAIN THE LIGHTING ZONE PROVIDING MULTIPLE CIRCUITS AS SHOWN ON LIGHTING LAYOUT. EACH LINEAR LED RETAIL FIXTURES SHALL HAVE TWO CIRCUITS (ONE FOR LINEAR LED FIXTURE AND ONE FOR LED SPOT LIGHT). FAILING TO COORDINATE WITH THE MANUFACTURER FOR THE REQUIRED LIGHTING CIRCUIT JUNCTION BOXES, IT WILL BE AN ELECTRICAL CONTRACTOR RESPONSIBILITY TO DO THE FIELD WIRING ON SITE TO MAINTAIN THE LIGHTING ZONES. (TYPICAL)
- OCCUPANCY SENSOR "OS1" SHALL BE MANUAL 'ON' AND AUTOMATICALLY 'OFF' IN THE STAFF ROOM AND JANITOR ROOM AREA. PROVIDE A LAMACOID LABEL BELOW THE SENSORS SUCH " "PUSH TO TURN ON" FOR JANITOR ROOM.
- (27) LIGHT SWITCH TO CONTROL SERVICE PLATFORM LEVEL LIGHT FIXTURE.
- WAREHOUSE LIGHTING TO BE SUSPENDED ON CHAINS (TYPICAL FOR WAREHOUSE AREA). COORDINATE WITH ARCHITECTURAL
- DRAWING A-1.03 FOR MOUNTING HEIGHTS.

 (**NOT USED**) CONTRACTOR IS TO PROVIDE AND INSTALL MILLWORK RECEPTACLES. CONTRACTOR TO PULL AND FEED POWER WIRING THROUGH EXISTING STUBBED UP CONDUIT INSTALLED BY LANDLORD ACCORDINGLY. PROVIDE LIQUID TIGHT BX CABLING TERMINATED TO SINGLE GANG RECEPTACLE BOX. RECEPTACLE BOX TO BE MOUNTED IN FOOT OF MILLWORK FIXTURE. JUNCTION BOX TO THE U/S OF ROOF DECK/CEILING FOR STUBBED UP RECEPTACLE TO BE INSTALLED BY ELECTRICAL CONTRACTOR. LCBO ELECTRICAL CONTRACTOR TO CONNECT TO POWER PANEL '2L' AND CIRCUIT AS SHOWN. VERIFY ON SITE FOR THE SOURCE PANEL CONNECTION AND ROUTE TO PANEL '2L' AS REQUIRED. EXTEND CONDUIT AND WIRING TO SUIT. COORDINATE EXACT LOCATION OF
- FLOOR STUB UPS AND EXACT ROUTING OF POWER FEEDER ON SITE. REFER TO DWGS 2/E-6 AND 3/E-6 FOR DETAILS.

 (**NOT USED**) WHERE REFERENCE IS MADE TO THIS NOTE ON PLAN, SIGNAGE SHALL BE SUPPLIED AND INSTALLED BY LCBO SIGNAGE CONTRACTOR, CONDUIT AND WIRING WITH DESIGNATED CIRCUIT BY ELECTRICAL CONTRACTOR. JUNCTION BOX AND/OR RECEPTACLE FOR SIGNAGE TO BE INSTALLED BY LANDLORD BASE BUILDING ELECTRICAL CONTRACTOR. POWER TO BE CONNECTED TO LIGHTING PANEL '2L' AND CIRCUITED AS SHOWN. VERIFY ON SITE FOR THE SOURCE PANEL CONNECTION AND RE-ROUTE TO PANEL '2L' AS REQUIRED. EXTEND CONDUIT AND WIRING TO SUIT. COORDINATE EXACT LOCATIONS ON SITE.



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General Notes

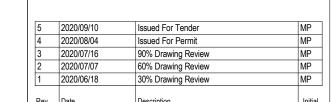
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 7. DRAWINGS AND SPECIFICATIONS ARE THE
- RETURNED UPON COMPLETION OF WORK.

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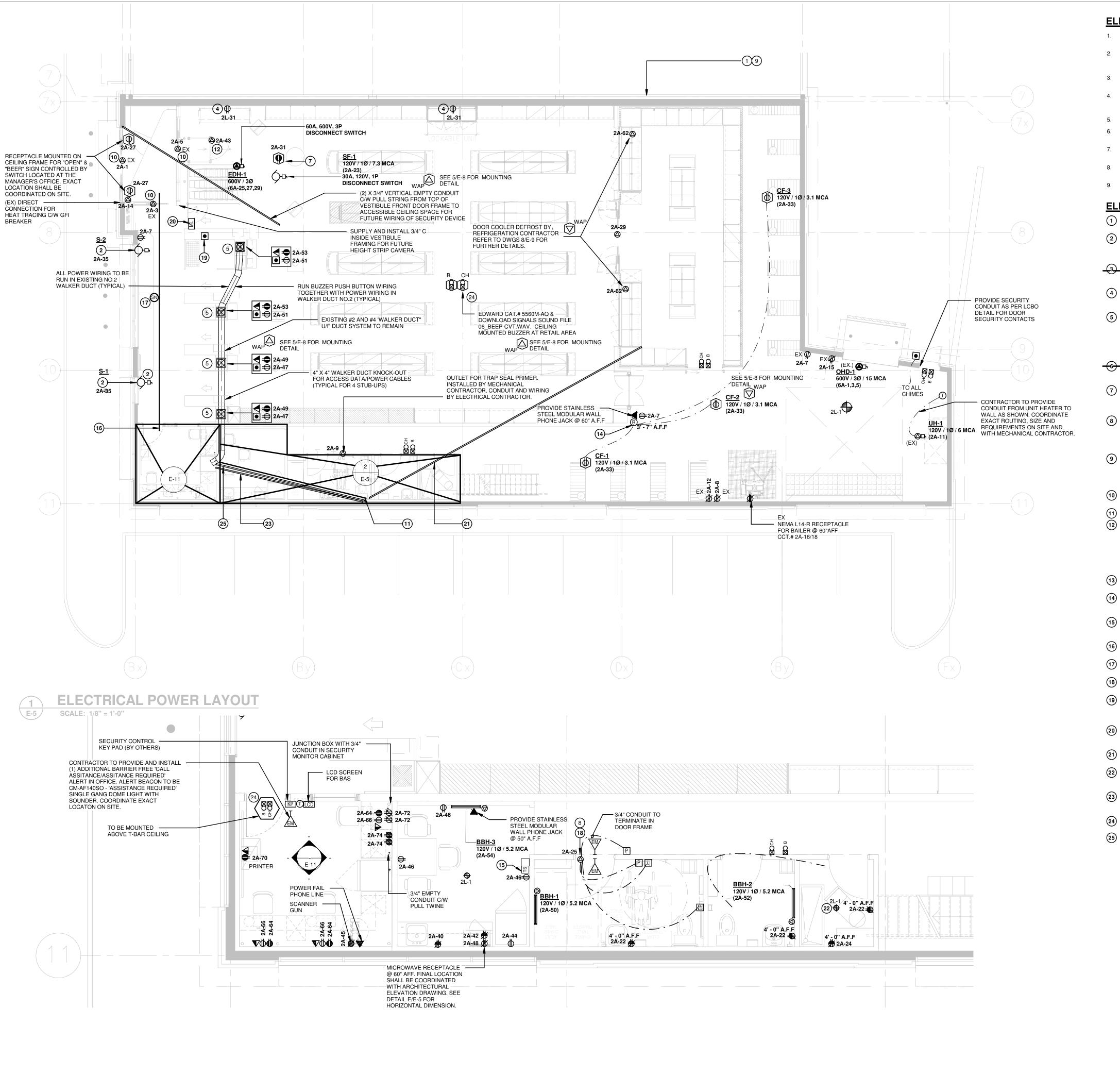
ELECTRICAL LIGHTING

Drawing Title:

LAYOUT

E-4

R5



ELECTRICAL POWER GENERAL NOTES:

NEW CIRCUIT AS SHOWN.

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR LOCATION OF MILLWORK FEED POINT, OUTLETS, DIMENSIONS, MOUNTING HEIGHTS, LOCATION DEVICES AND CONSTRUCTION DETAILING UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR TO PROPERLY LABEL ALL BREAKER PANELS, CLEARLY INDICATING ALL INFORMATION INCLUDING CIRCUIT
- NUMBER CORRESPONDING TO THE DRAWINGS. CIRCUITING SHOWN ON DRAWING IS DIAGRAMMATIC INTENTION TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION. SHOW FINAL ARRANGEMENT ON AS-BUILT DRAWINGS. BE RESPONSIBLE FOR ALL EXISTING ELECTRICAL DEVICES TO REMAIN, CONNECT TO EXISTING CIRCUIT OR REWORK AND CONNECT TO
 - PROVIDE 2#12 + GROUND IN A 3/4" CONDUIT FOR ALL CIRCUITS (15A/20A) UNLESS OTHERWISE SPECIFIED. CONDUCTORS TO BE OVERSIZED TO SUIT VOLTAGE DROP AS PER SRRS SPECIFICATION/COMPLY THE ONTARIO ELECTRICAL SAFETY AUTHORITY CODE FOR
- 5. ALL CONDUCTORS TO BE COPPER C/W RW90 INSULATION.
- PROVIDE CONDUIT AND WIRING AS PER DETAIL ON DRAWINGS FOR POWER AND DATA DEVICES. EXACT LOCATION OF WALL MOUNTED
- PROVIDE A SEPARATE GREEN INSULATED BONDING CONDUCTOR FROM ELECTRICAL MAIN GROUND TO COMMUNICATION BUS BAR. SEE DETAILS FOR 6/E-7 AND 7/E-7 FOR REQUIRED EQUIPMENT CONNECTION.
- PROVIDE A SEPARATE NEUTRAL AND GROUNDING TO ALL COPIER/PRINTER AND UPS RECEPTACLES CIRCUITS. COORDINATE RECEPTACLES CONFIGURATION WITH THE COPIER SUPPLIER AND TENANT PRIOR TO ROUGH-IN.
- PROVIDE CONDUIT AND WIRING TO ALL STEP DOWN TRANSFORMER (120/24V) FOR B.A.S. SYSTEM. CURRENT TRANSFORMER AND WATT TRANSDUCER SHALL BE SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR.

ELECTRICAL POWER KEYNOTES:

- 1) PROVIDE CONDUIT, POWER CONNECTION AND ROUGH IN TO ALL MECHANICAL EQUIPMENT AND ASSOCIATED CONTROL SYSTEMS. COORDINATE WITH MECHANICAL DRAWING FOR EXACT LOCATION OF MECHANICAL EQUIPMENT,
- WINDOWS SHUTTER TO BE CONNECTED TO CIRCUIT AS SHOWN. CONDUIT WILL BE PROVIDED BY LANDLORD, WIRING AND FINAL CONNECTION TO SHUTTER AND DISCONNECT BY THE ELECTRICAL CONTRACTOR. EACH MOTOR SHALL BE OPERATED BY SINGLE ROCKER TYPE SECURITY SWITCH FOR SECURITY SHUTTER MANAGED IN MANAGER'S OFFICE. EACH SHUTTER TO HAVE A SERVICE PLATFORM RATE SWITCH AND A MANUAL CRANK.
- (**NOT USED**) WINDOWS SHADES TO BE CONNECTED TO CIRCUIT AS SHOWN. CONDUIT WILL BE PROVIDED BY LANDLORD, WIRING AND FINAL CONNECTION TO SHADE AND DISCONNECT BY THE ELECTRICAL CONTRACTOR. ALL SHADE MOTORS SHALL BE OPERATED BY A SINGLE SOMFY WIRELESS TYPE SWITCH (MAX. TOTAL OF 5 SHADE MOTORS PER SWITCH) MANAGED IN MANAGER'S OFFICE.
- (4) PROVIDE CONNECTION TO EXISTING RECEPTACLE PROVIDED BY LANDLORD AT 6"AFF HORIZONTALLY BELOW WINDOW SILL FOR DISPLAY CASE LIGHT FIXTURE. RECEPTACLE TO BE CONNECTED TO LIGHTING PANEL '2L'. VERIFY ON SITE FOR THE SOURCE PANEL CONNECTION AND RE-ROUTE TO PANEL '2L' AS REQUIRED. EXTEND CONDUIT AND WIRING TO SUIT
- (5) IN-FLOOR POWER AND COMMUNICATION WALKERDUCT SUPPLIED AND INSTALLED BY LANDLORD C/W ALL NECESSARY ACCESSORIES FOR A COMPLETE AND PROPER INSTALLATION. THE WALKERDUCT SYSTEM SHALL BE ONE (1) NO 2 TYPE AND ONE (1) NO 4 TYPE FOR COMBINATION VOICE/DATA/CALL BELL. VERIFY THE INSTALLATION OF DUCTS USING ADJUSTABLE SADDLE SUPPORTS AT MAXIMUM 1.5m SPACING TO ALIGN AND LEVEL THE DUCT SUCH THAT THE TOP OF THE RACEWAY DUCT INSERTS ARE WITHIN 3mm OF THE SURFACE OF THE FINISHED CONCRETE FLOOR. VERIFY THAT IT IS COMPLETELY WATERTIGHT, AND ENSURE IT IS CLEAN AND CLEAR OF ALL OBSTRUCTION AND MOISTURE. ENSURE THAT THE DUCT IS NOT DAMAGED OR DISPLACE DURING THE CONCRETE POUR. SEE DETAIL
- (**NOT USED**) PROVIDE IN CONTRACT PRICE FOR TOTAL OF FOUR (4) FIRE SPEAKER RELOCATION AND (1) PULLSTATION WITH 100' OF CONDUIT AND WIRING FOR EACH DEVICE AS REQUIRED TO SUIT FIRE ALARM TIE-IN/CONNECTION TO SUIT LCBO SPACE AND TO SUIT INSPECTOR'S ADDITIONAL REQUIREMENTS. PROVIDE CREDIT AT THE END OF PROJECT IF SPARE DEVICES ARE NOT
- PROVIDE ISOLATED GROUND (I.G.) RECEPTACLE FOR SECURITY MONITOR AS PER ARCHITECTURAL DETAIL. SEE ARCHITECTURAL DETAIL FOR EXACT LOCATION AND MOUNTING HEIGHT. INSTALL THE BX CABLES THROUGH THE TELEHOOK NPT PIPE. INSTALL THE RECEPTACLES AFTER THE TV MOUNTING HARDWARE INSTALLATION. PROVIDE 1" EMPTY CONDUIT AND EXTEND ASSOCIATED 1" CONDUIT TO MANAGER'S OFFICE AREA C/W PULL STRING. SEE DETAIL #3/E-8.
- (8) PROVIDE EMERGENCY SECURITY CALL SYSTEM FOR ASSISTANCE EQUIPMENT C/W DOOR CONTROL, DOOR PUSH BUTTONS, LOCK BUTTONS, FLASHING STROBE LIGHT, TRANSFORMER AND A CALL BUTTON TO COMPLY THE NEW AODA CODE FOR BARRIER FREE UNIVERSAL WASHROOM. PROVIDE REQUIRED SIGNAGE FOR THE EMERGENCY CALL SYSTEM TO COMPLY THE CODE. SECURITY CALL SYSTEM SAHLL BE CAMDEN CX-WC13FM AND CX-WEC10 COMPLETE WITH MULTI FUNCTION RELAY, DOOR PUSH BUTTONS, MAGNETIC DOOR CONTACTS, STROBES AND SIGNAGE. SEE DETAILS ON DRAWING E-10.
- (9) ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF SENSORS FOR UNIT HEATERS, HEAT PUMPS, FORCED FLOW HEATERS WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO COMMENCE THE INSTALLATION. SENSORS FOR MECHANICAL EQUIPMENTS SUPPLIED, INSTALLED AND WIRED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE (EMT) CONDUIT FROM THERMOSTAT TO MECHANICAL EQUIPMENT AND BOX FOR SENSOR FOR CONTROL WIRING. COORDINATE WITH MECHANICAL
- (10) EXISTING OUTLET FOR DOOR OPERATOR COMPLETE WITH CONDUIT AND WIRING. VERIFY THE CONNECTION TO DOOR OPERATOR
- (11) ELECTRICAL CONTRACTOR TO PROVIDE 1" EMPTY CONDUIT FROM OFFICE CEILING TO TELEPHONE BACKBOARD DEMARK (MAINFRAME).
- (12) PROVIDE POWER AND FIRE ALARM CONNECTION IN EXISTING CONDUIT PROVIDED BY LANDLORD TO THE SECURITY GATE AS SHOWN. MANUAL PULL STATION SHALL BE CONNECTED TO THE FIRE ALARM ZONE SUCH THAT UPON ACTIVATION OF FIRE ALARM, SECURITY GATE CONTROL SYSTEM SHALL BE DEACTIVATED. POWER SHALL BE FED TO THE SECURITY GATE FROM FLOOR FEED VIÁ THE NEAREST WALL UPTO MERCHANDIZE STORAGE LEVEL PANEL LOCATION AS REQUIRED. PROVIDE SUFFICIENT SLACK OF CABLES FOR FUTURE SECURITY GATE CONNECTION. ROUTING OF CONDUIT FOR POWER SHALL BE COORDINATED ON SITE. COORDINATE WITH GENERAL CONTRACTOR FOR EXACT LOCATION FOR THE TERMINATION OF CONDUIT. CONDUIT SHALL BE FLUSH WITH THE FLOOR AND TO BE PLACED UNDER THE SECURITY GATE LEG SUCH THAT NO CONDUIT AND WIRING ARE VISIBLE. CONNECT TO EXISTING FIRE
- (13) BARRIER FREE DOOR OPERATOR (INSIDE OF THE WASHROOM) BUTTON & ALL SECURITY SYSTEM DEVICES DIMENSIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWING..
- CEILING FAN SPEED CONTROLLER SHALL BE SUPPLIED THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. 1/2" CONDUIT FOR ALL SPEED CONTROLLER SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR
- (15) STAFF AREA EXHAUST FAN SHALL BE WIRED THRU 15 MINUTES TIMER SWITCH SUPPLIED BY MECHANICAL CONTRACTOR, CONDUIT, WIRING AND INSTALLATION BY ELECTRICAL CONTRACTOR. LOCATION MUST BE APPROVED BY LCBO COORDINATOR ON SITE. PROVIDE A DOUBLE GANG BOX FOR TIMER AND OCCUPANCY SENSOR.
- PROVIDE 3/4" CONDUIT COMPLETE WITH PULL STRING FROM OFFICE CEILING TO VESTIBULE AREA AS SHOWN. ALL CONDUITS SHOULD
- BE LABELED "FOR LCBO AUDIO USE ONLY" (17) MOTORIZED SUN SHADE SENSOR SHALL BE PLACED ON THE WINDOW SUCH THAT SENSOR SHALL NOT BE BLOCKED BY ANY OBJECT
- THAT CAN CREATES A SHADOW ON SENSOR IN ORDER TO DETECT THE SUN RAY DIRECTLY.
- (18) COORDINATE WITH THE ARCHITECTURAL DRAWING FOR ALL DIMENSION AND MOUNTING HEIGHTS FOR BARRIER FREE PUSH BUTTONS & LOCK BUTTONS AND SECURITY CALL ASSISTANCE SYSTEM DEVICES.
- (19) PROVIDE A 120V RECEPTACLE AT CUSTOMER SERVICE DESK FOR THE LOW VOLTAGE PUSH BUTTON TRANSFORMER (120/12V) AT CUSTOMER DESK SUCH THAT ELECTRIC STRIKE SHALL RELEASE THE SWING GATE ARM ONCE THE PUSH BUTTON IS ACTIVATED. LOCATION OF PUSH BUTTON AND ASSOCIATED RECEPTACLE SHALL BE COORDINATED ON SITE WITH THE MILL WORK INSTALLATION. LOW VOLTAGE PUSH BUTTON SHALL BE SUPPLIED BY SWING GATE SUPPLIER..
- PROVIDE A 120V POWER CONNECTION FOR THE SWING ARM SECURITY LOCK COMPLETE WITH CONDUIT AND WIRING. VERIFY THE SECURITY LOCK VOLTAGE PRIOR TO CONNECT AND ADJUST ALL COMPONENTS TO SUIT. SECURITY LOCK SHALL BE SUPPLIED AND INSTALLED TO THE SWING ARM BY SWING GATE SUPPLIER.
- PROVIDE 1-2" CONDUIT FROM NVR LOCATION TO COLD ROOM AREA FOR FUTURE SECURITY WIRING. ROUTING OF CONDUIT SHALL BE COORDINATED ON SITE. CO-ORDINATE WITH SECURITY CONTRACTOR FOR FINAL DEMARKATION POINT PRIOR TO TERMINATE.
- (22) SMOKE DETECTOR SHALL BE SURFACE MOUNTED ON JANITOR ROOM CEILING IN ORDER TO MAINTAIN THE FIRE RATING OF CEILING. PENETRATION THROUGH FIRE RATED CEILINGS SHALL BE SEALED AND PACKED WITH APPROVED MATERIAL TO MAINTAIN EXISTING/NEW FIRE RATING
- RUN 2" CONDUIT FROM COMMUNICATION CABINET ON SERVICE PLATFORM DOWN TO END OF WALKER DUCT FOR ALL CASH DESK DATA CABLES. SEE COMMUNICATIONC ONDUIT DETAIL ON DWG. E-7.
- CHIME BUZZER SYSTEM TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ALL CONDUIT, WIRING AND CONNECTION OF DEVICES TO BE BY THE ELECTRICAL CONTRACTOR. REFER TO DETAIL 4/E-10 AND SPEC SECTIONS 28.13.28 (PARTS 2.03 AND 3.03)
- 25) RUN 2" CONDUIT FROM COMMUNICATION CABINET ON SERVICE PLATFORM DOWN TO OFFICE FOR ALL DATA CABLES. SEE COMMUNICATIONC ONDUIT DETAIL ON DWG. E-7.



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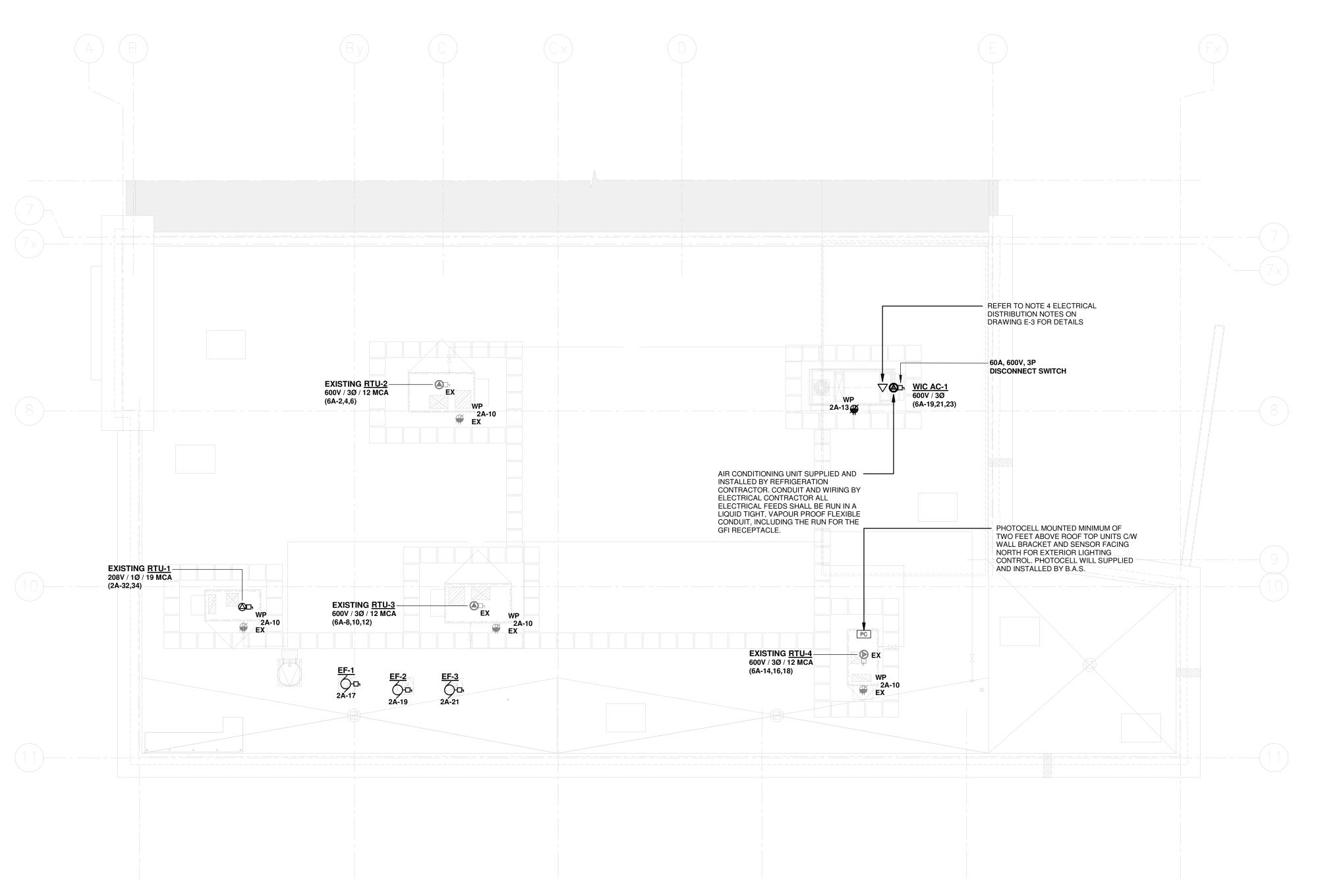
ELECTRICAL POWER

LAYOUT

OFFICE, STAFF ROOM, B/F WASHROOM & **JANITOR ROOM POWER LAYOUT** SCALE: 1/4" = 1'-0"

ROOF ELECTRICAL POWER GENERAL NOTES:

- FUSED DISCONNECTS FOR COLD ROOM AC UNITS SHALL BE PROVIDED BY THE REFRIGERATION CONTRACTOR AS AN INTEGRAL PART
 OF THE UNIT. ALL WIRING FROM LOAD SIDE OF THE DISCONNECT TO UNIT AND FROM PANELBOARDS TO THE LINE SIDE OF THE
 DISCONNECT SHALL BE BY THE ELECTRICAL CONTRACTOR. WIRING SHALL ENTER UNIT WITHIN CONFINES OF ROOF CURB.
 FUSE/BREAKER AS PER EQUIPMENT NAMEPLATE.
- 2. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF WEATHERPROOF AND GFI RECEPTACLES FOR EACH ROOF TOP UNIT WITH MECHANICAL CONTRACTOR. GFI RECEPTACLES SHALL BE AN INTEGRAL PART OF THE AIR CONDITION UNITS. CONTRACTOR TO REVISE THE CONNECTION TO SUIT PANEL SCHEDULES.
- 3. PROVIDE 1/2" EMPTY CONDUIT FROM PLC CONTROLLER UPTO COLD ROOM AIR CONDITION UNIT. PROVIDE 1/2"C BETWEEN PANEL AND AIR CONDITION UNIT FOR DATA CONNECTION. DATA CONNECTION COMPLETE WITH RJ-45 JACKS SHALL BE PROVIDED BY REFRIGERATION CONTRACTOR.
- 4. FUSED DISCONNECTS FOR ROOF TOP UNITS SHALL BE PROVIDED BY THE LANDLORD MECHANICAL CONTRACTOR AS AN INTEGRAL PART OF THE UNIT. ALL WIRING FROM LOAD SIDE OF THE DISCONNECT TO UNIT AND FROM PANELBOARDS TO THE LINE SIDE OF THE DISCONNECT SHALL BE BY THE LANDLORD ELECTRICAL CONTRACTOR. CONTRACTOR MUST VERIFY THE CONNECTION AND REPORT TO CONSULTANT FOR ANY DISCREPANCIES FROM THE CONSULTANT DRAWING. ALL CONNECTION SHALL BE MADE AS PER LATEST ELECTRICAL SAFETY CODE BY THIS CONTRACTOR. FUSE/BREAKER SHALL BE SIZED AS PER EQUIPMENT NAMEPLATE REGARDLESS OF EXISTING CONNECTION PROVIDED BY THE LANDLORD.
- 5. PROVIDE CONDUIT AND WIRING TO ALL EXHAUST FANS. ALL EXHAUST FANS SHALL BE SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR, CONDUIT AND WIRING BY THE ELECTRICAL CONTRACTOR.



ROOF SYSTEM LAYOUT

SCALE: 1/8" = 1'-0"



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2	2020/07/07	60% Drawing Review	MP
1	2020/06/18	30% Drawing Review	MP
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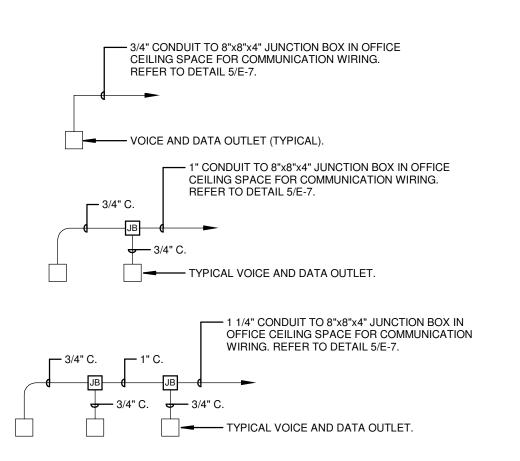
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ELECTRICAL ROOF LAYOUT

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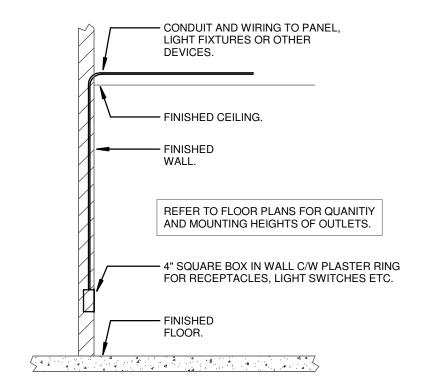
E-6



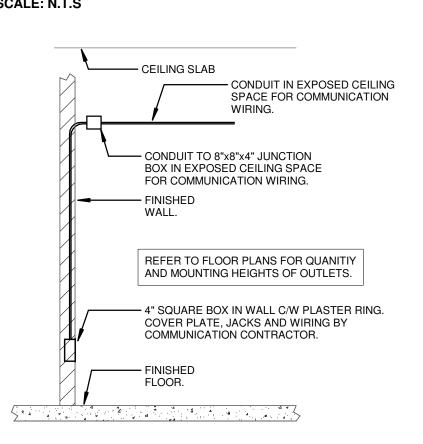
TYPICAL VOICE AND DATA OUTLET CONDUIT INSTALLATION

SCALE: N.T.S

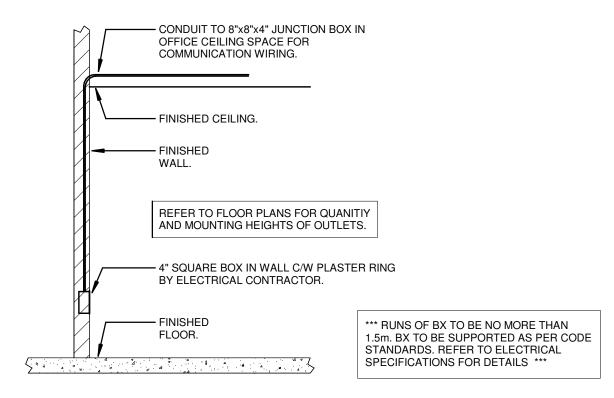
E-7



TYPICAL RECEPTACLE ETC. OUTLET INSTALLATION



TYPICAL VOICE AND DATA OUTLET **INSTALLATION FOR OPEN CEILING SPACE** SCALE: N.T.S



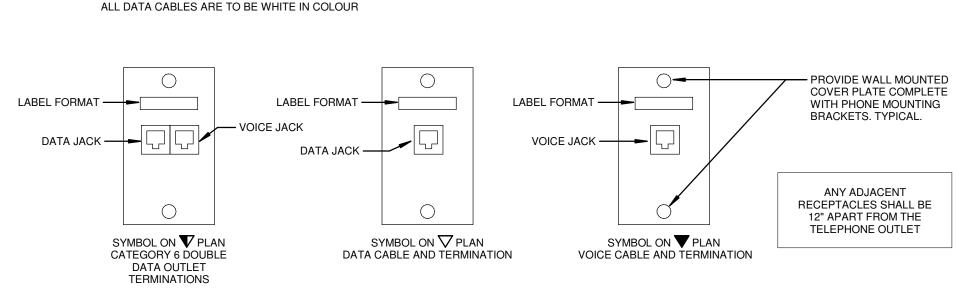
TYPICAL VOICE AND DATA OUTLET **INSTALLATION** E-7 SCALE: N.T.S

OUTLET AT CEILING SPACE

▼ OUTLET AT 42" AFF OR DIFFERENT MOUNTING HEIGHT WHERE NOTED

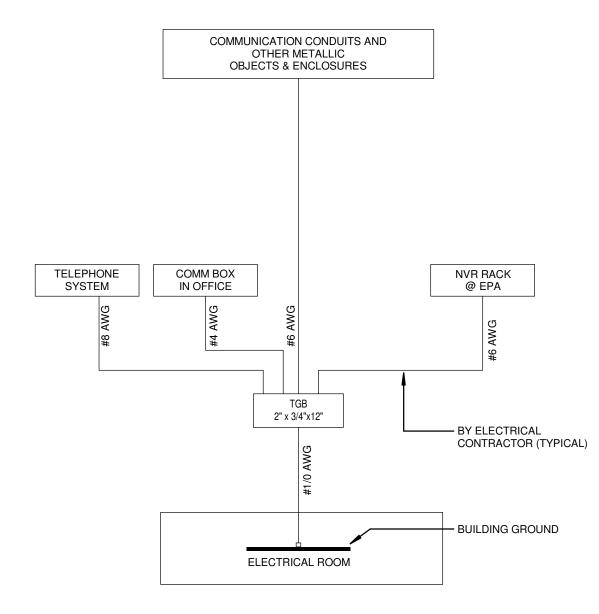
OUTLET AT 42" AFF OR DIFFERENT MOUNTING HEIGHT WHERE NOTED

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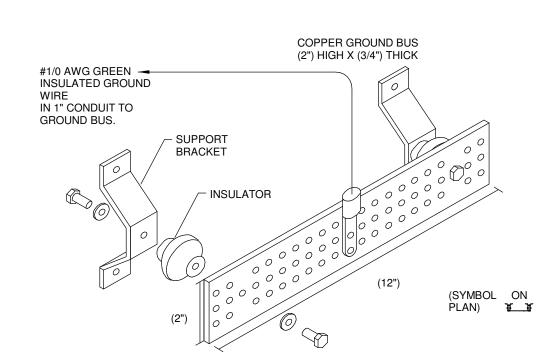
TYPICAL DETAIL OF COMMUNICATION **OUTLETS**





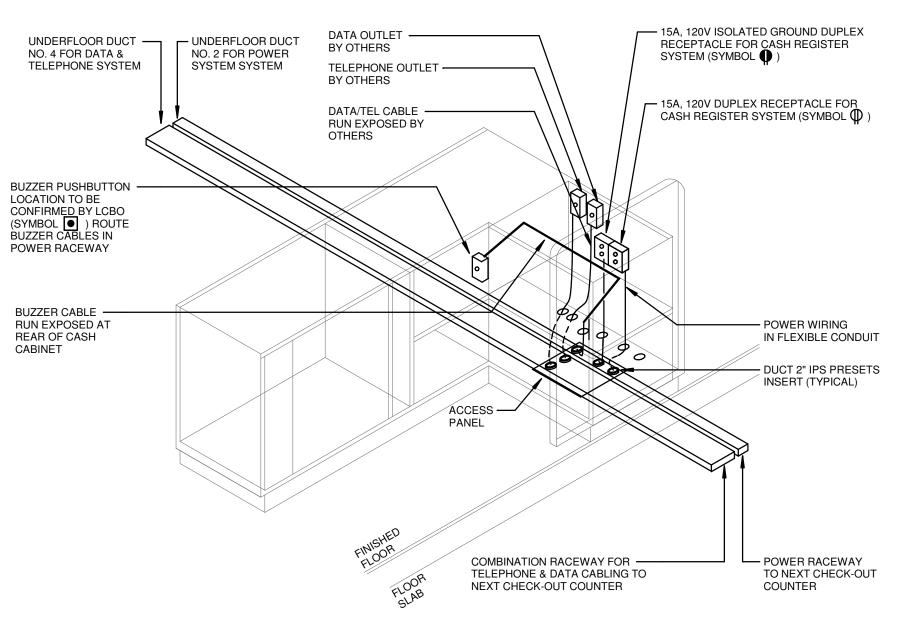
NOTES: ALL GROUND WIRING SHALL BE GREEN INSULATED. ALL BRANCH GROUNDING FOR COMMUNICATION EQUIPMENT SHALL BE PERFORMED BY ELECTRICAL

COMMUNICATION EQUIPMENT TYPICAL GROUNDING SCHEMATIC 6 E-7



- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL GROUND BUS AT ELECTRICAL DISTRIBUTION AREA PLATFORM. INSTALL 2-HOLE COMPRESSION LUGS `BURNDY/HYLUG' TYPE YAL2T FOR GROUND CONDUCTORS C/W DURIUM BOLTS, NUTS AND WASHERS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A GROUND CONNECTION BETWEEN THE
- MAIN BUILDING SERVICE GROUNDING ELECTRODE AND THE COMMUNICATION GROUNDING ELECTRICAL CONTRACTOR TO PROVIDE A GROUND CONNECTION FROM GROUND BUS BAR
- TO COMMUNICATION BOX AND NVR RACK AT WAREHOUSE AREA WITH A GREEN INSULATED
- GROUND BUS BAR SHALL BE INSTALLED AT THE TOP OF THE BACKBOARD OR 4" BELOW THE
- COVER TIPS, LUGS AND COPPER GROUND BAR WITH `PENETROX E' FROM `BURNDY' OR `KOPR-SHIELD' FROM `T&B'. ALL GROUNDING TERMINATIONS SHALL BE DONE WITH U.L.C LISTED HYPRESS LUGS AND GROUNDING CLAMPS.

GROUNDING BUS BAR DETAIL E-7 SCALE: 1:100

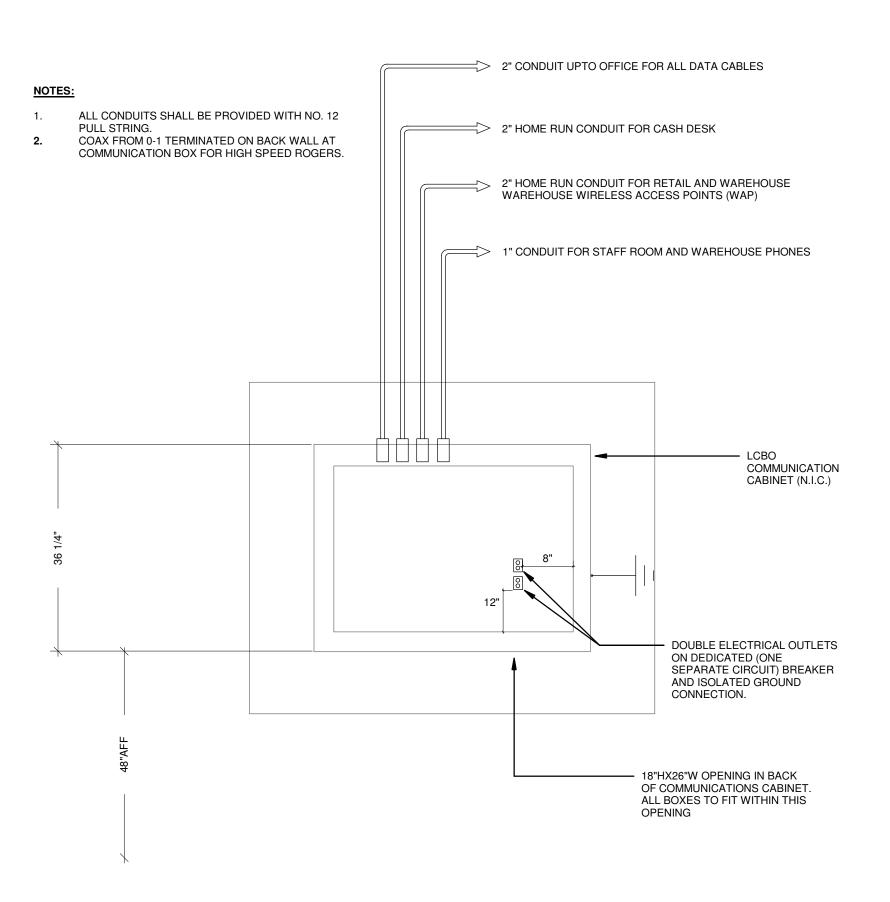


BASE-BUILDING CONTRACTOR.

- VERIFY EXACT LOCATION OF CHECK-OUT COUNTERS AND CUSTOMER SERVICE DESK'S ACCESS PANEL PRIOR TO SAW-CUT TRENCH FOR INSTALLATION OF WALKER UNDER FLOOR DUCTS SYSTEM. INSERTS AND SERVICE FITTINGS FOR POWER, DATA, TEL. AND BUZZER OUTLETS BE LOCATED WITHIN ACCESS PANEL
- PUSHBUTTON AND RECEPTACLES TO BE INSTALLED AFTER THE COUNTERS HAVE BEEN POSITIONED IN PLACE COORDINATE WITH LCBO REPRESENTATIVE FOR EXACT LOCATION OF ALL ELECTRICAL COMPONENTS. COORDINATE AND VERIFY WITH BASE BUILDING DRAWING FOR CONDUIT RUNS THAT WERE INSTALLED BY

2A-XX CIRCUITS AS NOTED

CHECK-OUT COUNTER (TYPICAL)



COMMUNICATION CABINET CONDUIT DETAIL SCALE: 1:100

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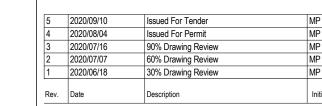
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- CHECK DRAWINGS AGAINST SPECIFICATIONS USE THE LATEST REVISED DRAWINGS ONLY. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SCHEDULES. DISCOVERED ERRORS, OR OMISSIONS, TO THE ARCHITECT AND LCBO DURING TENDER PERIOD AND BEFORE PROCEEDING WITH ANY WORK.
- PROPERTY OF THE ARCHITECT, AND MUST BE RETURNED UPON COMPLETION OF WORK. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT

DRAWINGS AND SPECIFICATIONS ARE THE

PLEASE GO TO: WWW.BIDDINGO.COM/LCBO

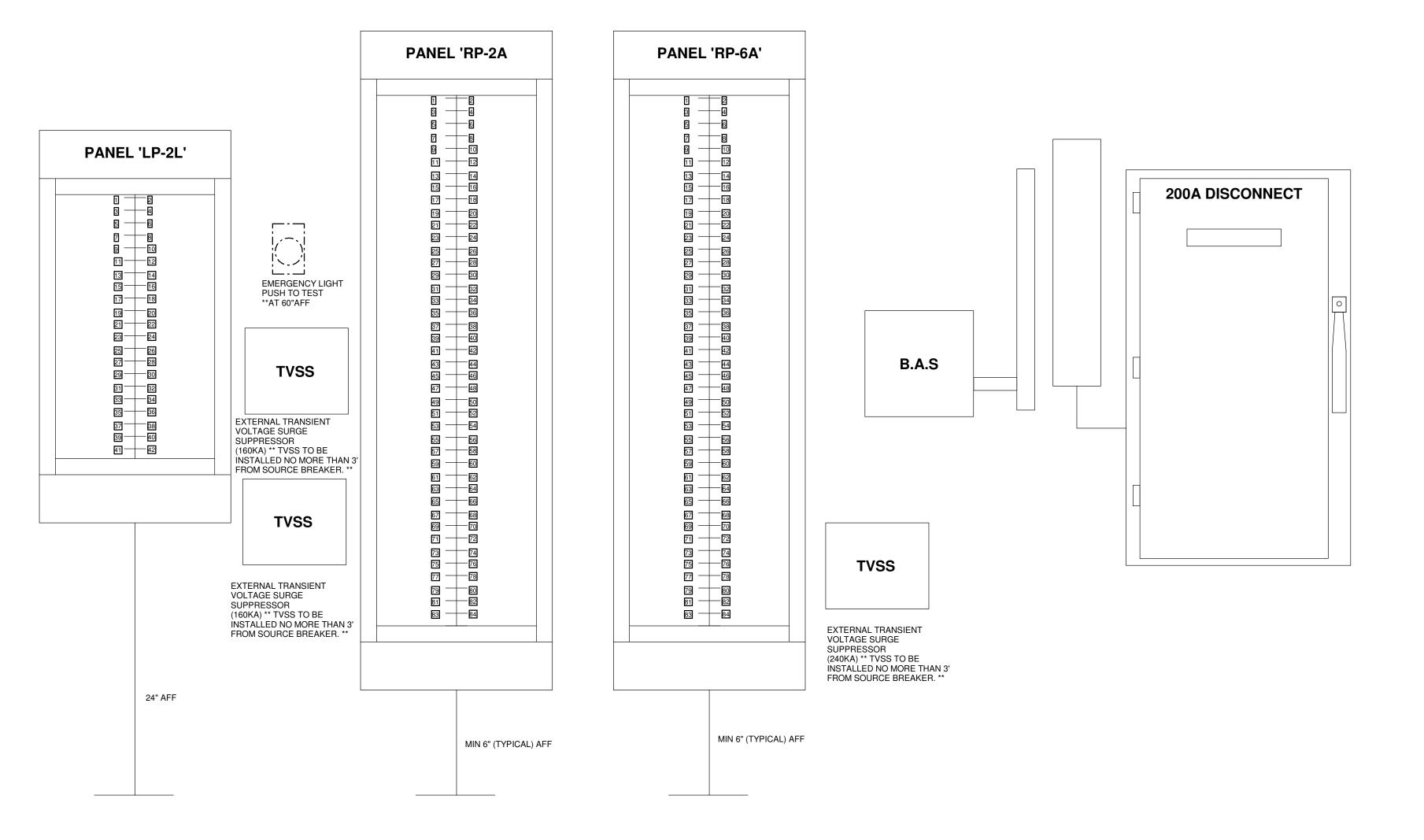


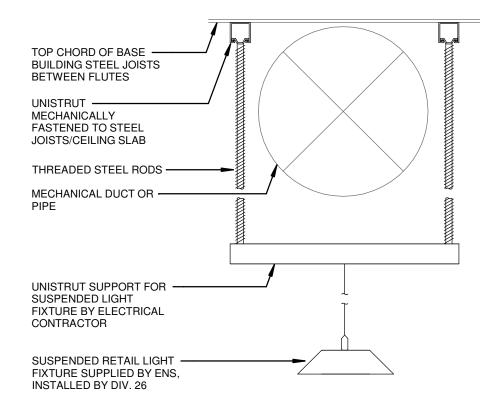
Issued For Tender 2020/09/10 171-02500-D7 1 : 100

LCBO Store No. 312 TORONTO, ON Interior Fit-up

ELECTRICAL DETAILS

E-7





RETAIL AREA LIGHTING SUSPENSION DETAILS

FOR SUSPENDED LED FIXTURES AT MECHANICAL DUCTWORK INTERFERENCE WHERE CONNECTION TO UNISTRUT (DIRECTLY FASTENED TO UNDERSIDE OF

JOISTS/CEILING SLAB) IS NOT POSSIBLE USE DETAIL AS REQUIRED

E-8 SCALE: N.T.S



IBI GROUP

ibigroup.com

7th Floor - 55 St. Clair Avenue West Toronto ON M4V 2Y7 Canada

tel 416 596 1930 fax 416 5596 0644

General Notes

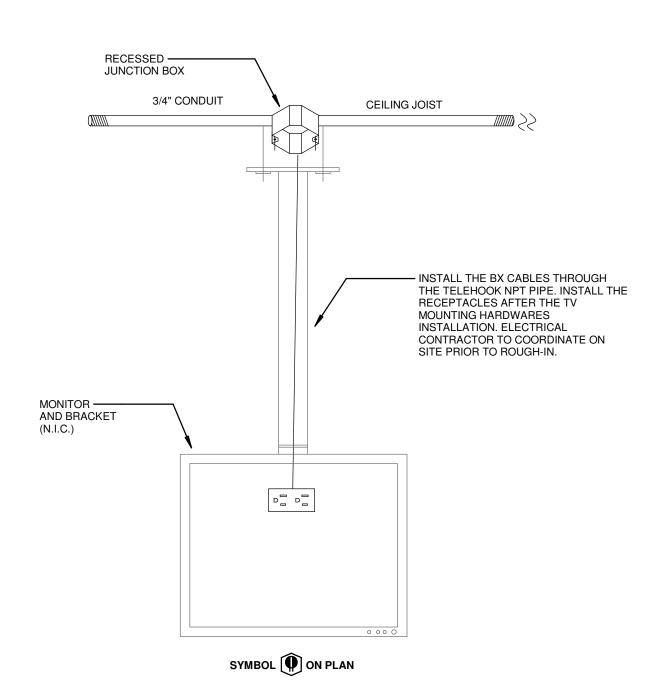
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DRAWINGS SPECIFICATIONS AND SCHEDULES

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AND BEFORE PROCEEDING WITH ANY WORK.
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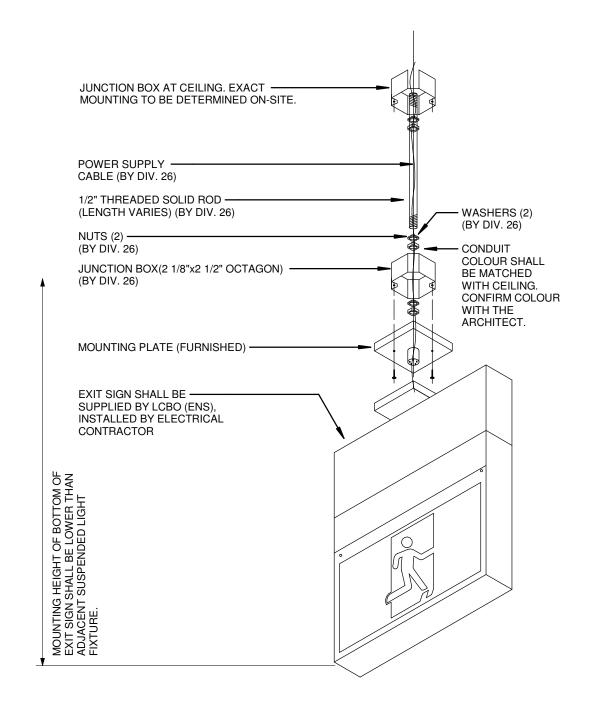
RETURNED UPON COMPLETION OF WORK.

8. TO VIEW A LIST OF BIDDERS FOR THIS PROJECT, PLEASE GO TO: WWW.BIDDINGO.COM/LCBO

1 ELECTRICAL PANEL ELEVATIONS SCALE: N.T.S

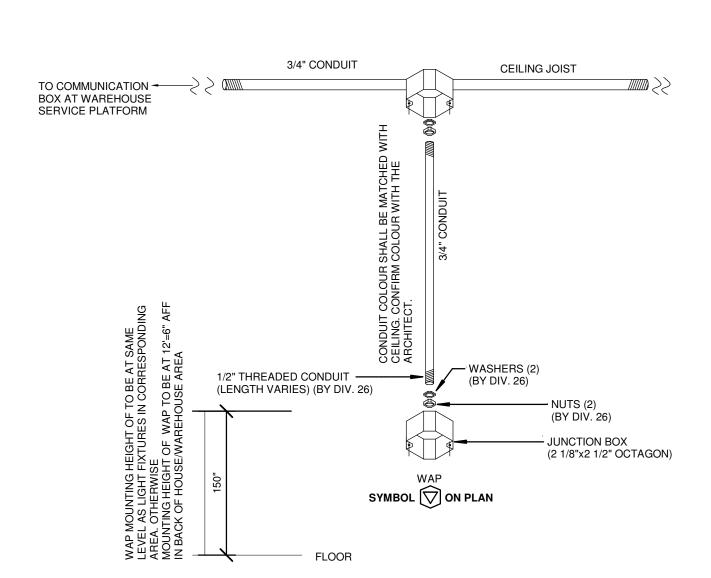


TYPICAL DETAIL OF RETAIL SECURITY
MONITOR RECEPTACLE



HIGH CEILING EXIT SIGN MOUNTING
DETAIL

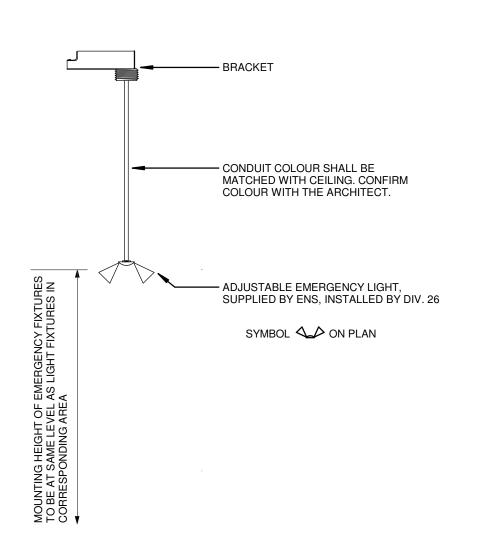
SCALE: N.T.S



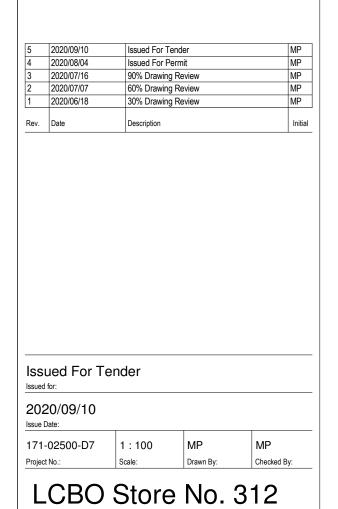
MOUNTING DETAIL FOR WIRELESS

ACCESS POINT

SCALE: N.T.S



6 MOUNTING DETAIL OF REMOTE HEADS
SCALE: N.T.S



MOUNTING DETAILS

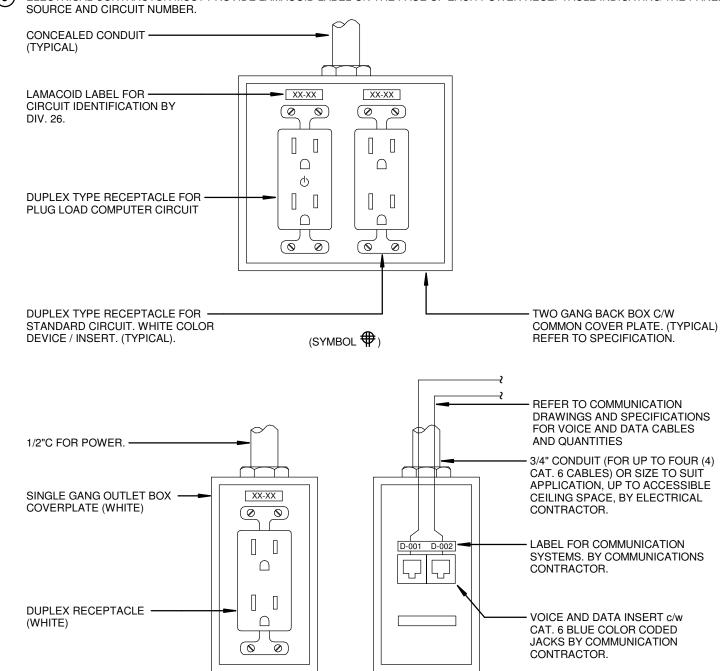
TORONTO, ON

Interior Fit-up

E-8

GENERAL NOTES:

- (1) COORDINATE WITH DESIGNER FOR EXACT VOICE/DATA CONFIGURATION OUTLETS.
- (2) CO-ORDINATE WITH DESIGNER FOR EXACT COLOUR FINISH OF RECEPTACLES AND VOICE/DATA OUTLETS.
- THIS CONTRACTOR SHALL PROVIDE COMPLETE RECEPTACLES SYSTEM. PROVIDE EMPTY CONDUIT + PULL STRING AND BACK BOX FOR COMMUNICATION. VOICE/DATA CABLE, JACKS AND COVER PLATE BY COMMUNICATION CONTRACTOR.
- PROVIDE WALL MOUNTED RECEPTACLE LEVITON DECORA COLOR: WHITE. PROVIDE RED RECEPTACLES THAT ARE CONNECTING TO
- (5) ELECTRICAL CONTRACTOR MUST PROVIDE LAMACOID LABEL ON THE FACE OF EACH POWER RECEPTACLE INDICATING THE PANEL SOURCE AND CIRCUIT NUMBER.



TYPICAL WALL OUTLET DETAIL SCALE: N.T.S

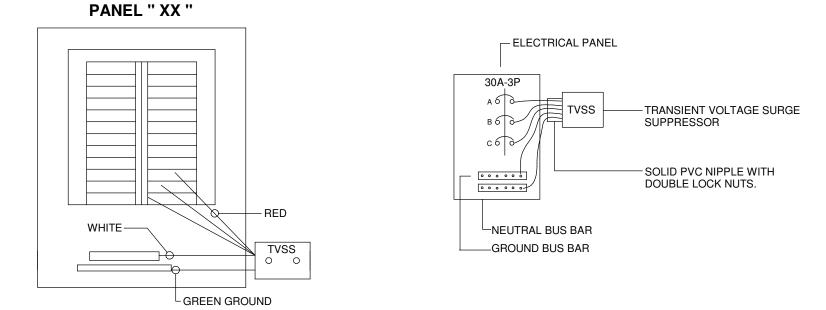
 $(SYMBOL \mathbf{\nabla})$

(SYMBOL ♥)

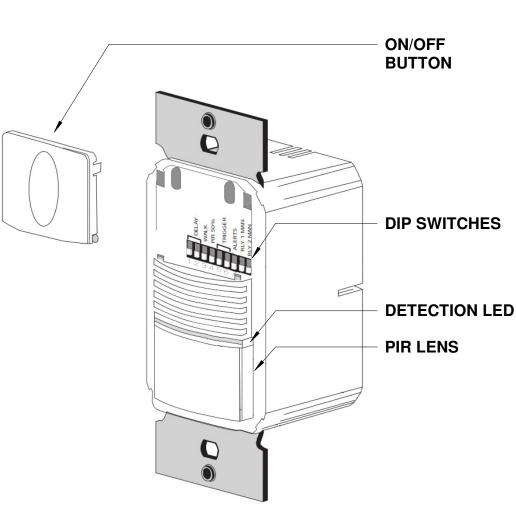
TVSS INSTALLATION INSTRUCTIONS:

THIS UNIT SHOULD BE OUTSIDE OF THE PANEL (EXTERNAL)

- USE VOLTAGE METER TO CHECK ALL VOLTAGES IN PANEL. VERIFY THE CONNECTION OF EACH BUS BAR (TOTAL OF THREE) THROUGH: a/ DEDICATED BREAKER
- (30AMP) CONNECT GREEN WIRE TO GROUND.
- ALL LIGHTS WILL BURN BRIGHTLY WHEN PROPERLY INSTALLED.
- SUBSTITUTION OF SURGE SUPPRESSION UNIT TYPE WILL NOT BE ACCEPTABLE. UNLESS APPROVED BY
- THE TVSS SHALL BE INSTALLED IN MANNER TO MINIMIZE WIRE LENGTH TO THE BREAKER AND NEUTRAL AS MUCH AS POSSIBLE. FOR PANELS WITH BOTTOM NEUTRAL BUS BARS, USE 3 BOTTOM BREAKER SPACES.
- FOR TOP NEUTRAL BUS BARS USE 3 TOP BREAKER SPACES. ARRANGE TO HAVE THE FINAL INSTALLATION INSPECTED BY MANUFACTURER'S REPRESENTATIVE MAKE
- ALL REQUIRED CHANGES AS DIRECTED. MANUFACTURER'S REPRESENTATIVE TO PROVIDE TYPEWRITTEN INSPECTION REPORT AND SUBMIT IT TO CONSULTANT.
- TVSS SHALL BE BY "EMA SERIES, SCHNEIDER ELECTRIC SQUARE D #SSP-02-EMA16, 3PH, 4W C/W SURGE COUNTER AND NEMA 1 ENCLOSURE, THERMO-DYNAMIC FUSING SYSTEM FOR PANEL RP-2A. PROVIDE 30A, 3P BREAKER IN PANEL TO FEED TVSS.



TRANSIENT VOLTAGE SURGE SUPPRESSION DETAIL SCALE: N.T.S



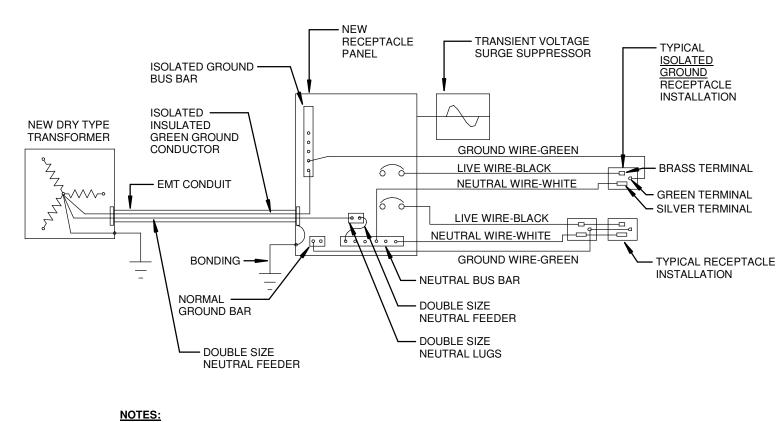
Ø SERVICE BY-PASS OCCUPANCY 1 2 3 | | | | | | & LIGHT LEVEL 5 MINUTES | + | + | + FUNCTIONS. 10 MINUTES | + | + | + CONTROL THE LOAD MANUALLY 15 MINUTES | + | + | + 20 MINUTES | | | | | | | 25 MINUTES | + | + | + 30 MINUTES | 4 | 4 | 4 Ø SERVICE | | | | | | WALK-THROUGH PIR SENSITIVITY DISABLED ENABLED LOW, 50% VISIBLE ALERT **AUDIBLE ALERT** DISABLED DISABLED ENABLED ENABLED | | **SETTING FOR OS1 SETTING FOR OS2** ON MODE AUTO ON AUTO ON ■ MANUAL ON MANUAL ON SWITCH 9 IS NOT USED VISIBLE ON ─ NOT USED ALERTS MODE LAUDIBLE ALERTS WALK THROUGH PIR SENSITIVITY

+ = ON + = OFF

■ = FACTORY SETTING

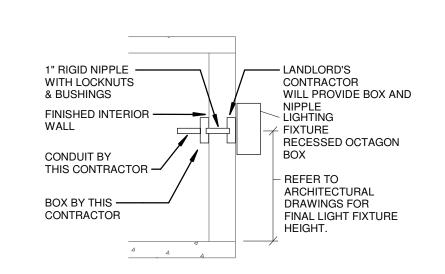
DIP SWITCH SETTINGS

TYPICAL DETAIL OF OCCUPANCY SENSEOR SETTING



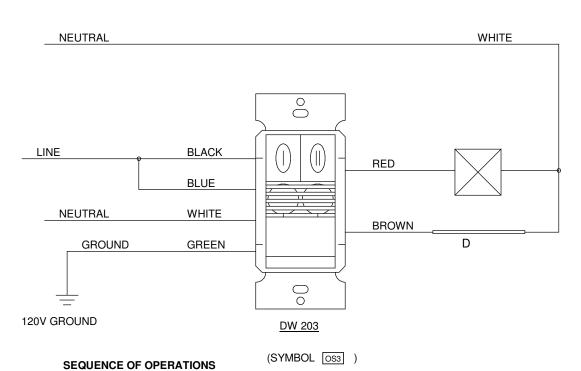
PROVIDE SEPARATE NEUTRAL FOR EACH INDIVIDUAL CIRCUIT. PROVIDE A SEPARATE NEUTRAL AND A SEPARATE ISOLATED INSULATED GREEN GROUNDFOR EACH ISOLATED GROUND RECEPTACLE.

TYPICAL NEUTRAL & ISOLDATED GROUND INSTALLATION SCALE: N.T.S





WALLSWITCH SENSOR WITH BI-LEVEL **MANUAL CONTROL**

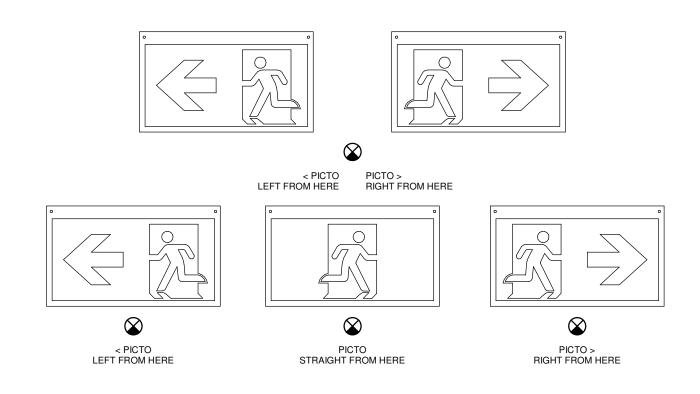


-OFFICE CEILING LIGHTS ACTIVATE AUTOMATICALLY VIA SENSOR.

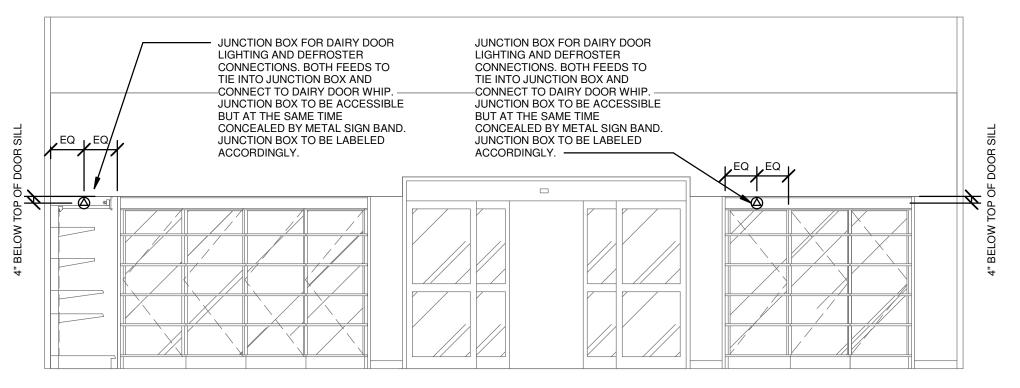
-VALENCE LIGHTS SHALL BE MANUALLY TURNED ON.

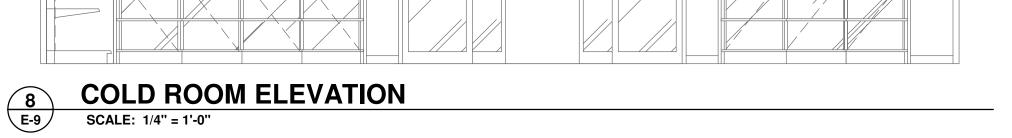
-THE SENSOR SHALL TURN OFF ALL OFFICE LIGHTING AFTER 15MINS OF INACTIVITY. -BUTTON 'I' WOULD MANUALLY CONTROL (ON/OFF) THE CEILING LIGHTING AND -BUTTON "II" WOULD MANUALLY CONTROL (ON/OFF) THE VALENCE LIGHTING.

OFFICE SENSOR CONNECTION DETAIL SCALE: N.T.S









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Context Plan



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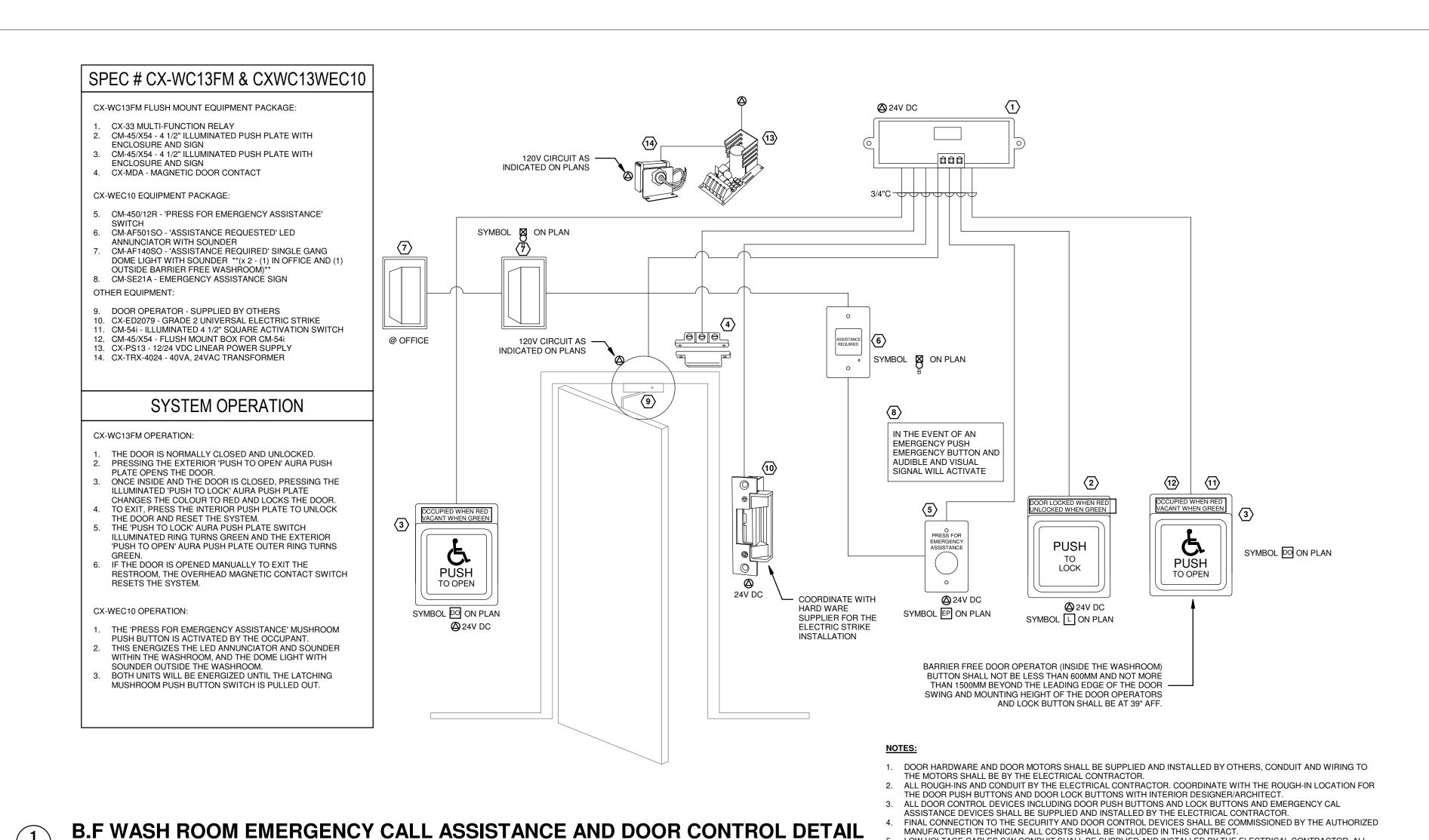
Issued For Permit 2020/08/04 90% Drawing Review 60% Drawing Review 30% Drawing Review

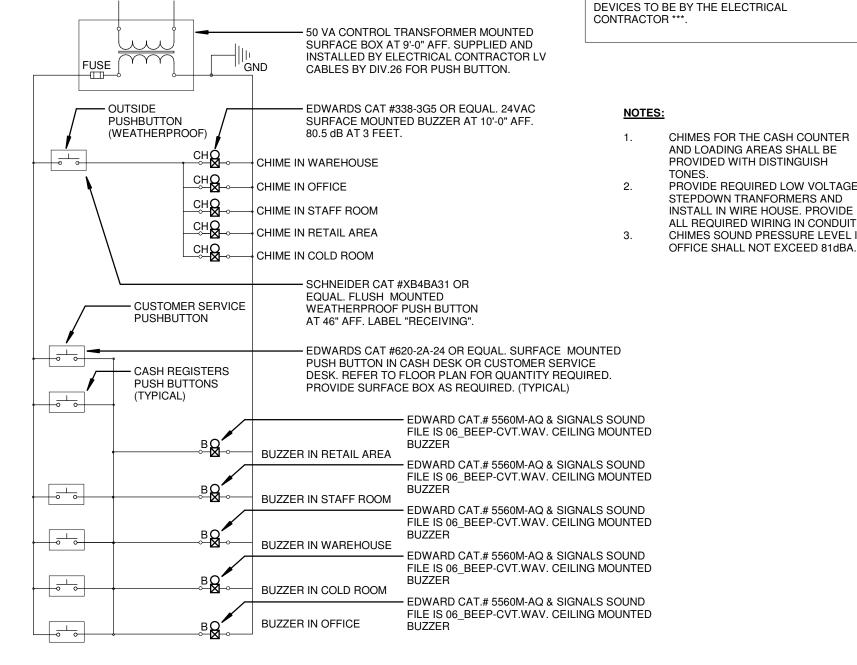
Issued For Tender 2020/09/10 171-02500-D7 As indicated MP

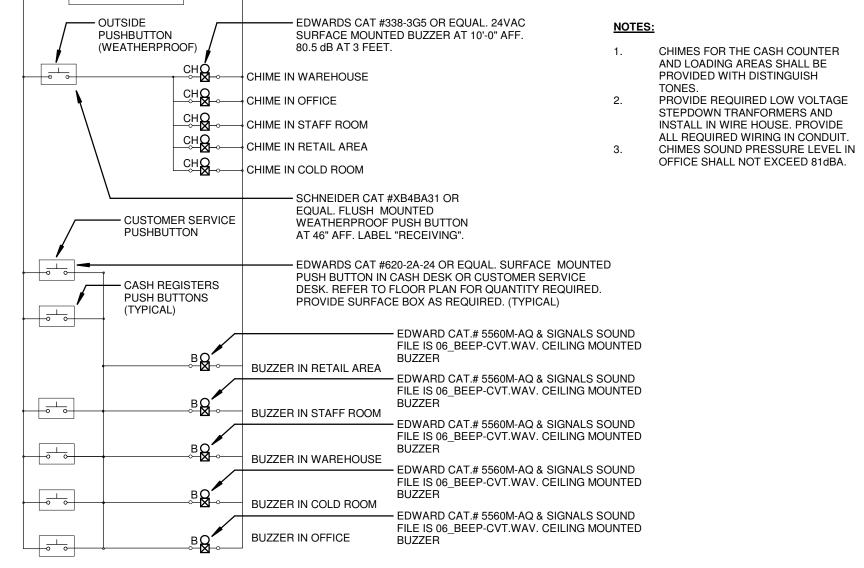
LCBO Store No. 312 TORONTO, ON Interior Fit-up

ELECTRICAL DETAILS

E-9











120 VOLT CCT. (2A-59)

TYPICAL WIRING CONNECTION FOR **SHUTTERS** SCALE: N.T.S

SHUTTER MOTOR JUNCTION BOX WHITE (COMMON) GREEN (GROUND) RED (DIRECTION 2) BLACK (DIRECTION 1)

*** CHIME BUZZER SYSTEM TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ALL

CONDUIT, WIRING AND CONNECTION OF

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Context Plan



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Issued For Tender
Issued For Permit 2020/08/04 2020/07/16 2020/07/07 90% Drawing Review 60% Drawing Review 30% Drawing Review 2020/06/18

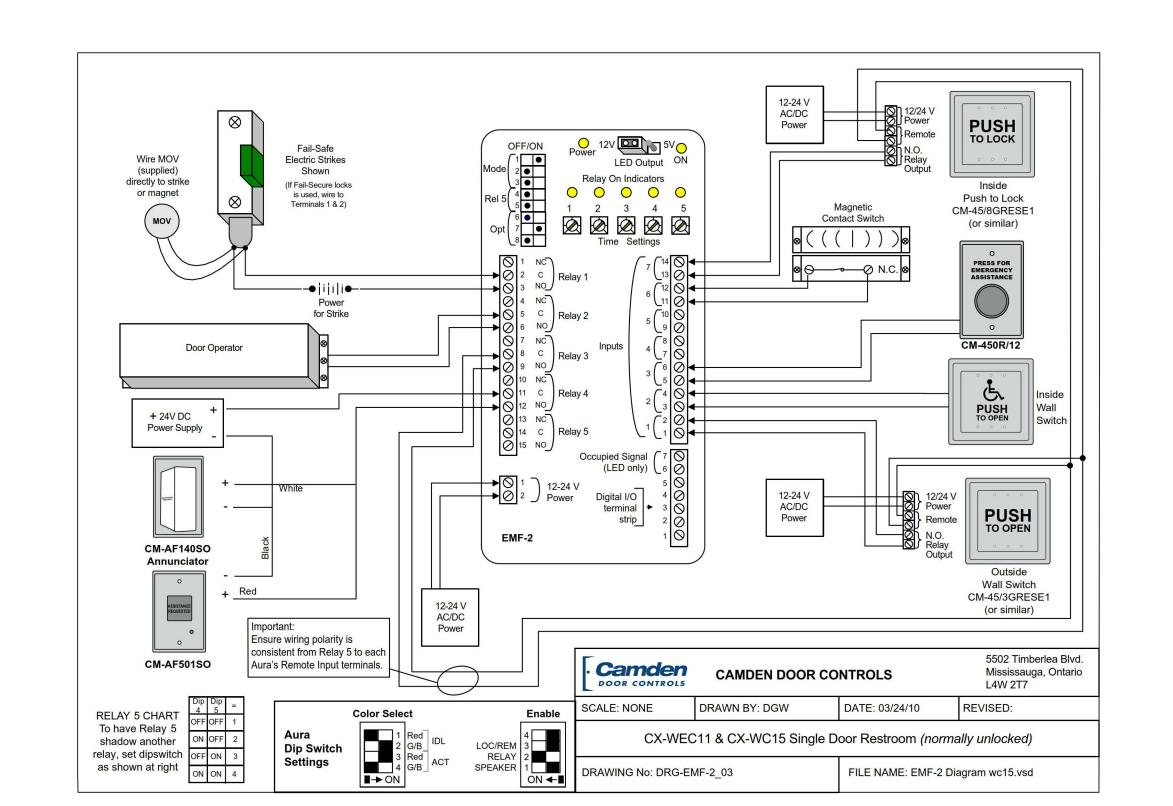
Issued For Tender 2020/09/10 171-02500-D7 N.T.S

LCBO Store No. 312 TORONTO, ON Interior Fit-up

ELECTRICAL DETAILS

E-10

R5





SCALE: N.T.S E-10

(E-10)

SCALE: N.T.S

MANUFACTURER TECHNICIAN. ALL COSTS SHALL BE INCLUDED IN THIS CONTRACT.

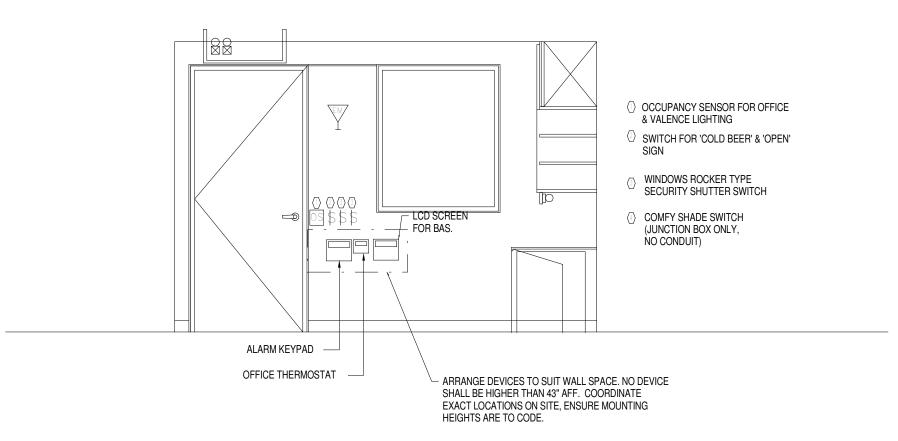
WIRING SHALL BE RUN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

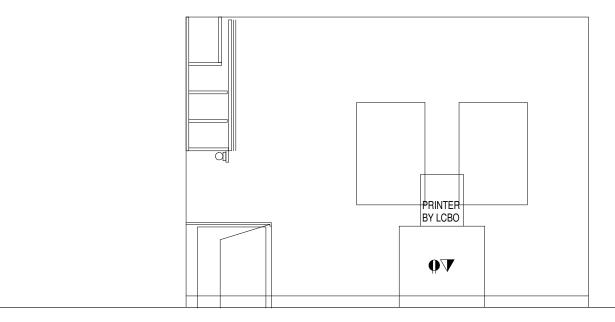
LOW VOLTAGE CABLES C/W CONDUIT SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL

SCALE: N.T.S

STAFF LUNCH ROOM FAN WIRING

DIAGRAM





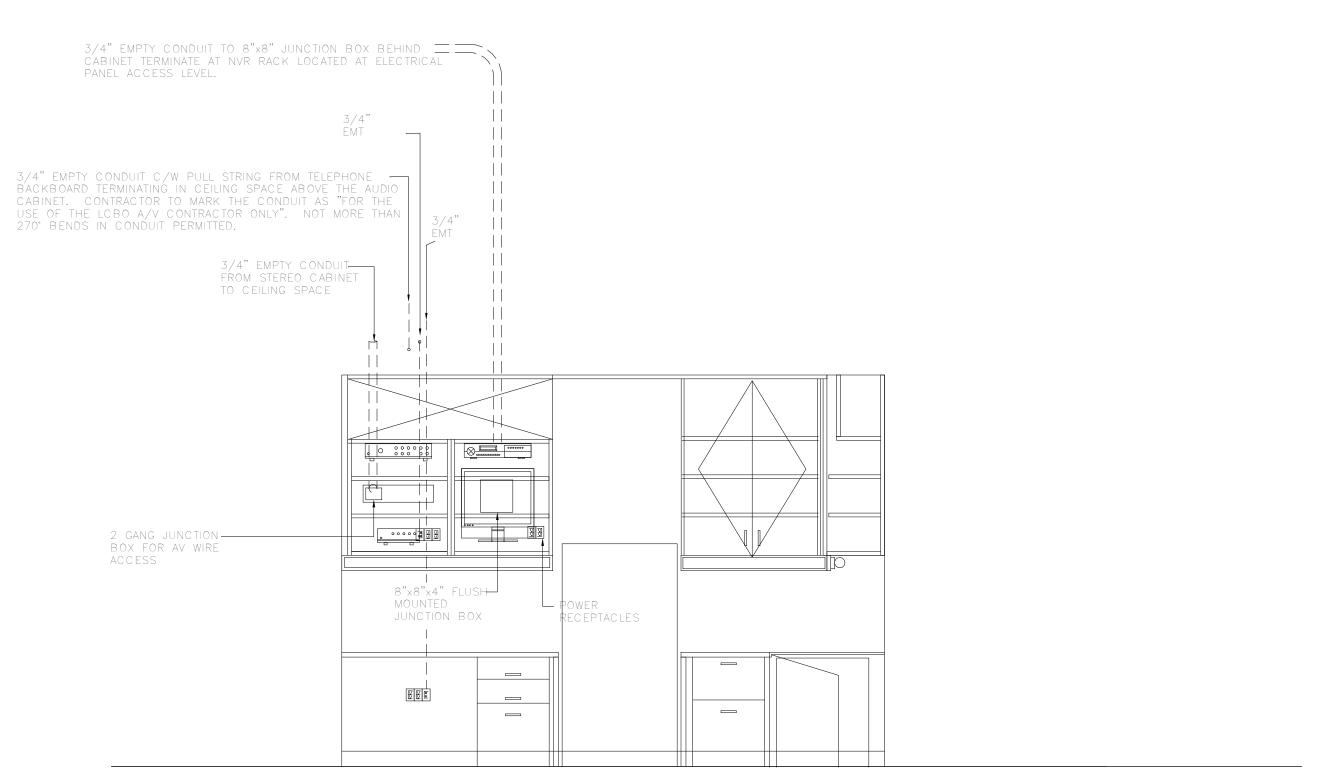
ELECTRICAL ELEVATION GENERAL NOTES:

- 1. SWITCHES AND CONTROL DEVICES TO BE MOUNTED BETWEEN AT 41" A.F.F. AND SHALL BE COORDINATED WITH ARCHITECTURAL PLAN.
- 2. LOCATION OF SWITCHES, NOVAR PANEL, THERMOSTAT, OUTLETS, SENSORS MUST BE APPROVED BY LCBO COORDINATOR AT THE SITE PRIOR TO ROUGH-IN.
- 3. SWITCHES SHALL BE MOUNTED IN ONE BANKS AND IDENTIFIED BY LAMACOID PLATES.
- 4. COMMUNICATION BOX SHALL BE CENTERED ON TOP OF SAFE BOX.

ELECTRICAL PANEL ELEVATIONS

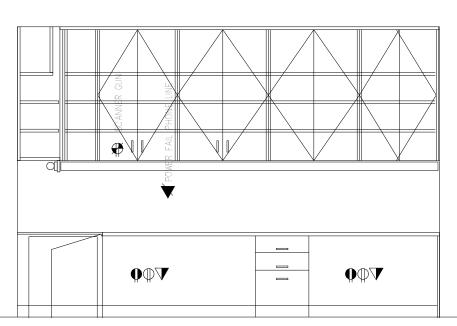
OFFICE ELEVATION 'A'

E-11 SCALE: N.T.S

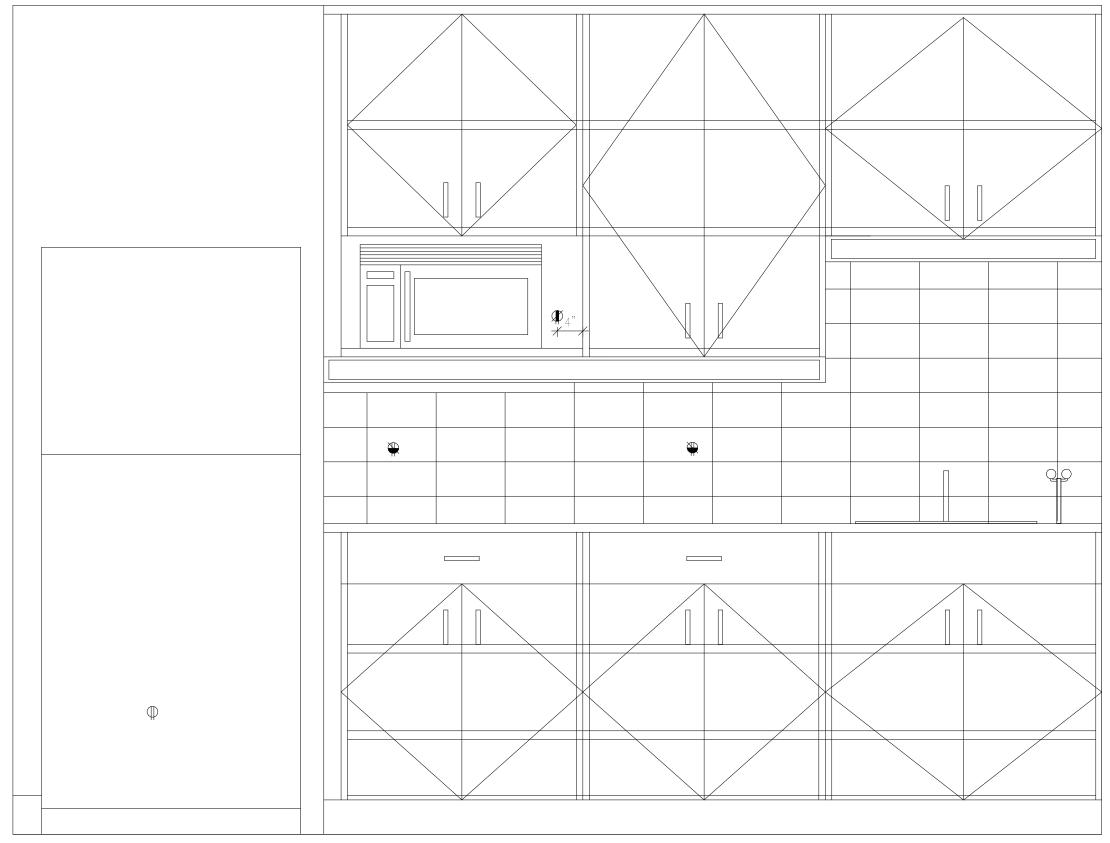


OFFICE ELEVATION 'B'

E-11 SCALE: N.T.S

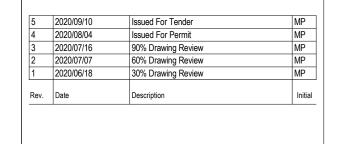


OFFICE ELEVATION 'D'
SCALE: N.T.S



5 STAFF ELEVATION 'C'

SCALE: N.T.S



IBI GROUP

ibigroup.com

600 Cochrane Drive Markham ON L3R 5K3

t: 905-475-8727 f: 905-475-5994 www.wsp.com

Context Plan

General Notes

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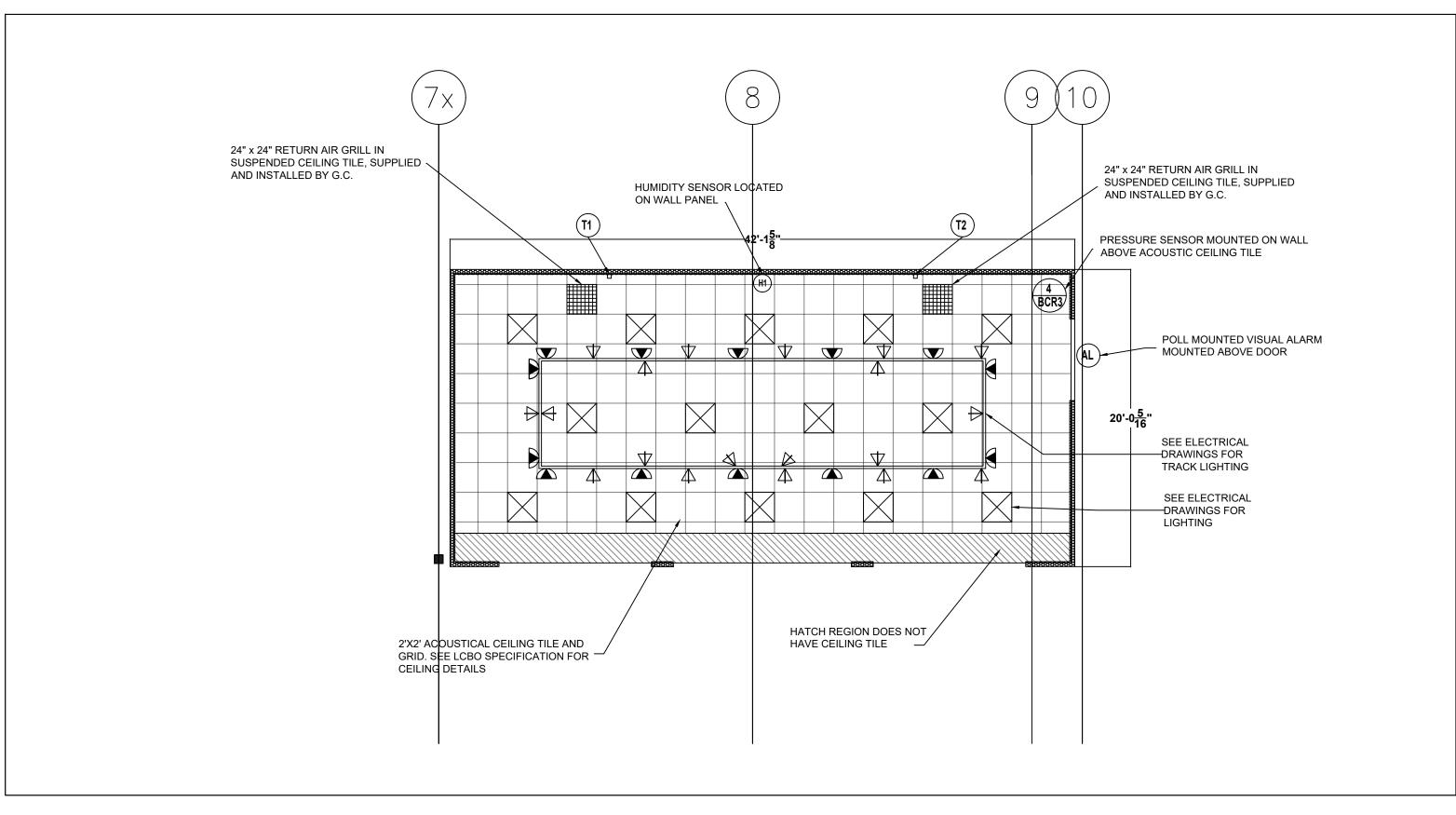
2020/09/10
Issue Date:

LCBO Store No. 312 TORONTO, ON Interior Fit-up

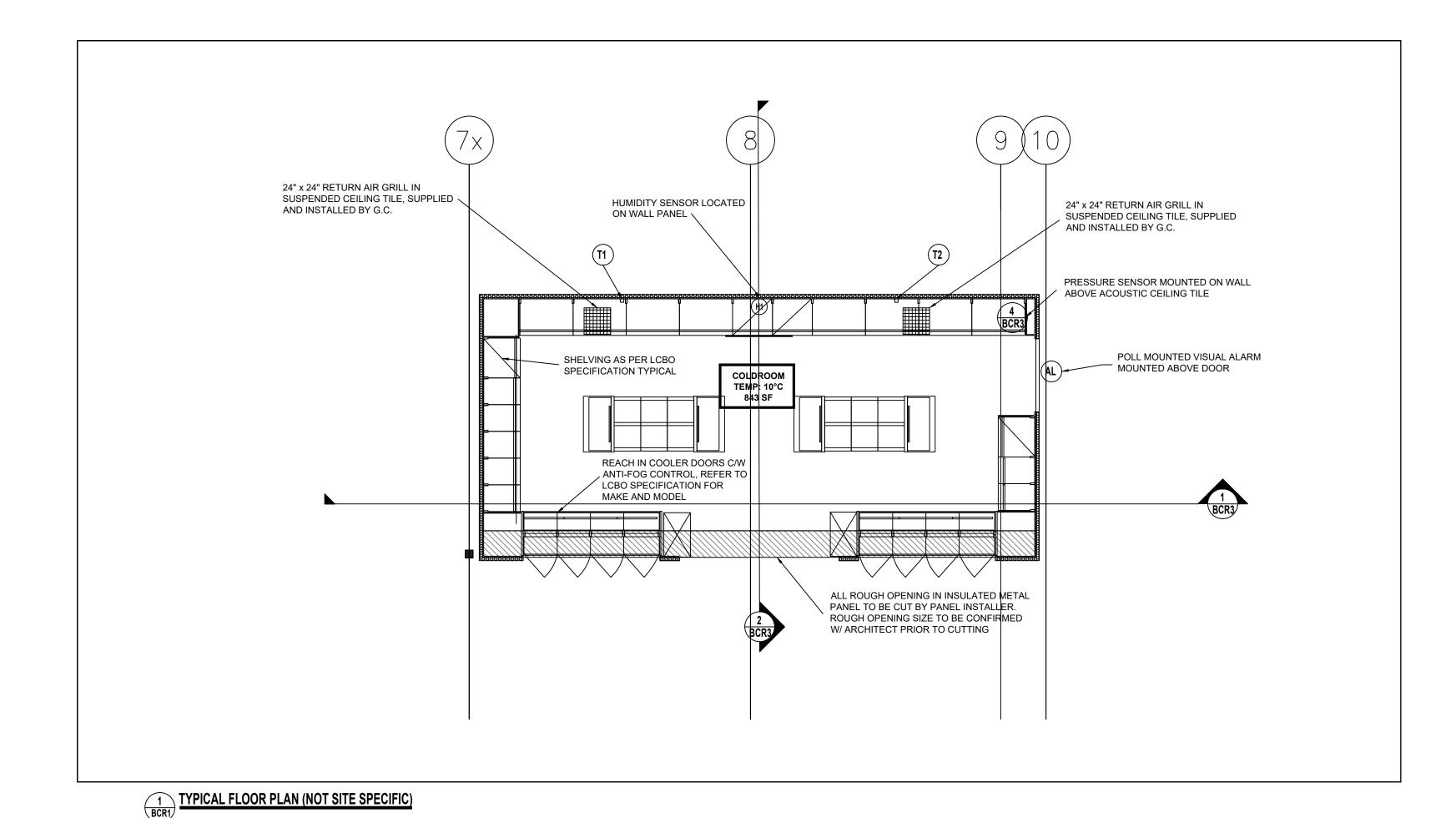
ELECTRICAL DETAILS

ing Title:

E-11



REFLECTED CEILING PLAN



GENERAL NOTES & REQUIREMENTS

- 1. ALL EXISTING MEMBERS AND ELEMENTS THAT ARE SHOWN ARE FOR
- ILLUSTRATIVE PURPOSES ONLY. 2. CONTRACTOR TO VERIFY IF OTHER ELEMENTS OR MEMBERS EXIST
- WHICH ARE NOT SHOWN ON THIS DRAWING. 3. CONTRACTOR TO VERIFY DIMENSIONS, LOCATIONS AND CONDITIONS ON
- 4. BASE BUILDING STRUCTURE TO BE VERIFIED BY AN ENGINEER TO SUPPORT THE LOADS APPLIED BY THE COLD ROOM ROOF TOP UNIT AND THE COLD ROOM INSULATED METAL PANEL CEILING.
- 5. ACOUSTIC CEILING IN COLD ROOM TO BE SUSPENDED FROM BASE **BUILDING STRUCTURE.**
- 6. ACOUSTIC CEILING WIRE HANGERS TO BE FED THROUGH HOLES DRILLED IN COLD ROOM CEILING PANEL.
- 7. ALL HOLES DRILLED BY ACOUSTIC CEILING CONTRACTOR IN INSULATED METAL PANEL CEILING FOR WIRE HANGERS OF ACOUSTIC CEILING TO BE FILLED WITH SPRAY FOAM AND SEALED BY ACOUSTIC CEILING CONTRACTOR.
- 8. ALL PENETRATIONS MADE IN THE INSULATED METAL PANEL MUST BE NEATLY FOAMED AND SEALED BY THE CONTRACTOR WHO CREATES THE PENETRATION.
- 9. ALL LIGHTS, SENSORS, DISPLAYS AND ROOF TOP UNITS ARE TO BE LABELED WITH LAMACOID LABELS.
- 10. ELECTRICAL CIRCUITS FOR THE KOOLJET UNIT, KOOLJET HMI PANEL, ANTHONY DOOR LIGHTS/HEATERS AND KOOLJET ROOFTOP SERVICE RECEPTICAL PROVIDED BY GENERAL CONTRACTOR.
- 11. KOOLJET CONTROL WIRING SUPPLIED AND INSTALLED BY NGL.

INSULATED METAL PANELS AND DOORS:

- A. REFER TO LCBO PROJECT SPECIFICATION FOR MANUFACTURER AND MATERIALS OF INSULATED METAL PANELS.
- B. INSULATED METAL PANELS ARE TO BE INSTALLED AS PER THE MANUFACTURERS SPECIFIED DETAILS. SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS ARE TO BE SUBMITTED FOR REVIEW BY THE
- CONSULTANTS PRIOR TO COMPLETING ANY WORK ON SITE. C. COOLER SLIDING DOOR SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW PRIOR TO ORDERING OF DOOR.
- D. INSULATED METAL PANEL INSTALLER IS RESPONSIBLE FOR SUPPLYING ANY SUPPORTS NEEDED FOR THE INSTALLATION OF THE COOLER RATED SLIDING DOOR.
- E. SUPPORT FOR SUSPENDING THE INSULATED METAL PANEL CEILING, IF REQUIRED, TO BE SUPPLIED AND INSTALLED BY INSULATED METAL PANEL CONTRACTOR. TYPE AND LOCATION OF SECONDARY SUPPORTS
- TO FOLLOW MANUFACTURE SPECIFICATION. F. HANGER ROD SPACING AS PER INSULATED METAL PANEL MANUFACTURERS REQUIREMENTS.

FLOOR PLAN SYMBOLS

- (T1) TEMPERATURE SENSOR 1
 - **TEMPERATURE SENSOR 2**
- HMI CONTROL PANEL TO BE LOCATED ON MEZZANINE
- (AL) POLE MOUNTED FEDERAL SIGNAL VISUAL ALARM. MODEL: MSLED-AMBER, MSLED-RED, - BEER COLD ROOM INSTALLER TO PROVIDE AND INSTALL
- **HUMIDITY SENSOR RTU**

REFLECTED CEILING PLAN NOTES

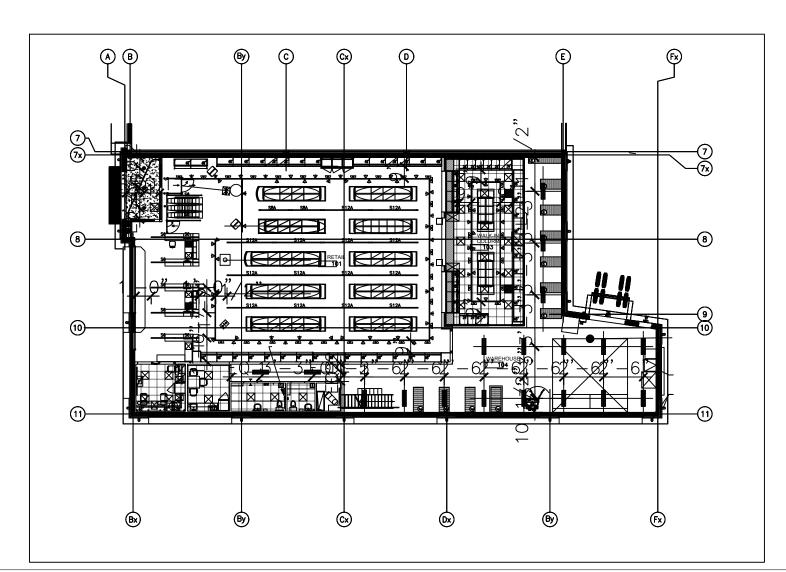


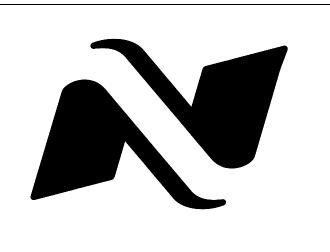
RETURN AIR GRILLES TO BE "EH PRICE 80F", EGG CRATE FACE RETURNS, ALUMINUM 1/2" x 1/2" GRID CORE - PAINTED WHITE FINISH

ROOM DIFFERENTIAL PRESSURE SENSOR INSTALLATION INSTRUCTIONS:

THE ROOM DIFFERENTIAL PRESSURE SENSOR IS USED TO MAINTAIN COLDROOM AT A CONSTANT PRESSURE BY ACCURATELY SENSING COLD ROOM STATIC PRESSURE LEVELS. THIS DEVICE IS USED TO ELIMINATE ROOM PRESSURIZATION / NEGATIVE ROOM PRESSURE ISSUES CAN BE INSTALLED AS FOLLOWS:

- INSTALL PRESSURE SENSOR TYPICALLY ABOVE THE ACOUSTIC TILE CEILING, ON THE EXTERIOR SIDE OF THE COLDROOM WALL. THE MOUNTING LOCATION MUST BE ON THE WALL CLOSER TO THE MEZZANINE, AS SPECIFIED IN THE CONTSTRUCTION DRAWING.
- THE SENSOR MUST BE MOUNTED ON A WALL IN THE VERTICAL POSITION. DO NOT MOUNT PRESSURE SENSOR TO DUCT OR OTHER VIBRATING SURFACE.
- DRILL 3/8" HOLE THROUGH THE WALL TO ACCEPT THE SENSOR TUBE (SUPPLIED WITH THE SENSOR).
- RUN PNEUMATIC TUBING FROM "HIGH" PORT OF THE PRESSURE SENSOR CONNECT THE TUBING TO THE FITTING ON THE BACK SIDE OF THE
- PRESSURE PLATE. • INSERT THE PRESSURE PLATE INTO THE HOLE IN THE WALL. SCREW THE
- PRESSURE PLATE TO THE COLDROOM WALL ON THE INSIDE FACE. • WIRE THE PRESSURE TRANSDUCER TO THE HMI PANEL LOCATED IN THE
- **MEZZANINE AREA.**





neclands group limited

4131 Palladium Way **Burlington, ON** L7M 0V9 TEL: (905)332-4555 FAX: (905)332-7090 http://www.neelands.com

DATE	Νo	REVISION DETAIL
06/15/20 07/07/20 07/13/20	Τ	BCR Drawing 30% review KOOLJET RELOCATION BCR DRAWING 90% REVIEW BCR DRAWING PERMIT & TENDE
07/07/20	2	KOOLJET RELOCATION
07/07/20	3	BCR DRAWING 90% REVIEW
09/10/20	4	RCP DRAWING PERMIT & TENDE
09/10/20	4	DEN DRAWING FERRIT & FERDE

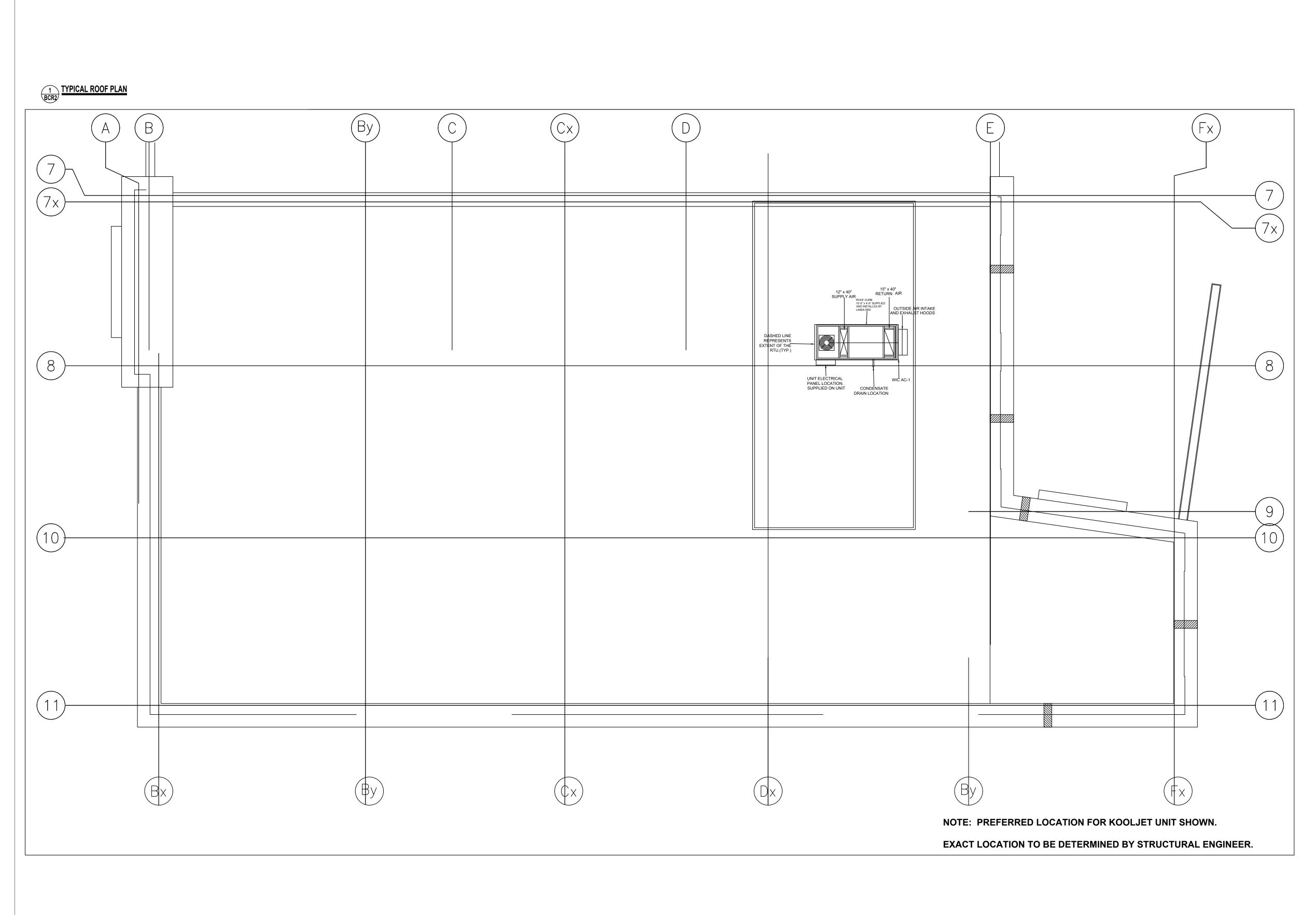


PROJECT:	_
LCBO Store #312 Wellar BCR Current Desig	-

DRAWING TITLE: REFLECTED CEILING & FLOOR PLAN

DESIGNER: J.Gordon J.Gordon DRAWN BY: CHECKED BY: S.CORBETT

SCALE: N/A DATE: 2020-06/15 **BCRI** DWG No:

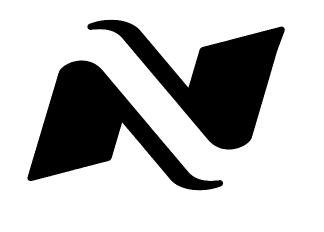




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- 10. ELECTRICAL CIRCUITS FOR THE KOOLJET UNIT, KOOLJET HMI PANEL, ANTHONY DOOR LIGHTS/HEATERS AND KOOLJET ROOFTOP SERVICE RECEPTICAL PROVIDED BY GENERAL CONTRACTOR.
- 11. KOOLJET CONTROL WIRING SUPPLIED AND INSTALLED BY NGL.
 INSULATED METAL PANELS AND DOORS:

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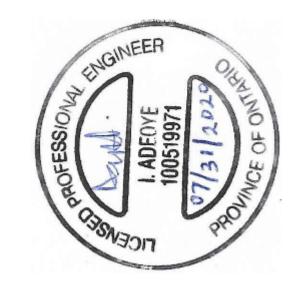
- A. REFER TO LCBO PROJECT SPECIFICATION FOR MANUFACTURER AND MATERIALS OF INSULATED METAL PANELS.
- B. INSULATED METAL PANELS ARE TO BE INSTALLED AS PER THE MANUFACTURERS SPECIFIED DETAILS. SHOP DRAWINGS SHOWING CONSTRUCTION DETAILS ARE TO BE SUBMITTED FOR REVIEW BY THE CONSULTANTS PRIOR TO COMPLETING ANY WORK ON SITE.
- C. COOLER SLIDING DOOR SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW PRIOR TO ORDERING OF DOOR.
- D. INSULATED METAL PANEL INSTALLER IS RESPONSIBLE FOR SUPPLYING ANY SUPPORTS NEEDED FOR THE INSTALLATION OF THE COOLER RATED SUIDING DOOR
- E. SUPPORT FOR SUSPENDING THE INSULATED METAL PANEL CEILING, IF REQUIRED, TO BE SUPPLIED AND INSTALLED BY INSULATED METAL PANEL CONTRACTOR. TYPE AND LOCATION OF SECONDARY SUPPORTS TO FOLLOW MANUFACTURE SPECIFICATION.
- F. HANGER ROD SPACING AS PER INSULATED METAL PANEL MANUFACTURERS REQUIREMENTS.



neelands group limited

4131 Palladium Way Burlington, ON L7M 0V9 TEL: (905)332-4555 FAX: (905)332-7090 http://www.neelands.com

DATE	Νo	REVISION DETAIL
06/15/20		BCR DRAWING 30% REVIEW
77/13/20	2	KOOLIET RELOCATION
77/13/20	<u>レ</u> ス	RCD DDAWING ONOL DEVIEW
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LCBO Store #312 Welland BCR Current Design

DRAWING TITLE:

ROOF PLAN

DESIGNER:

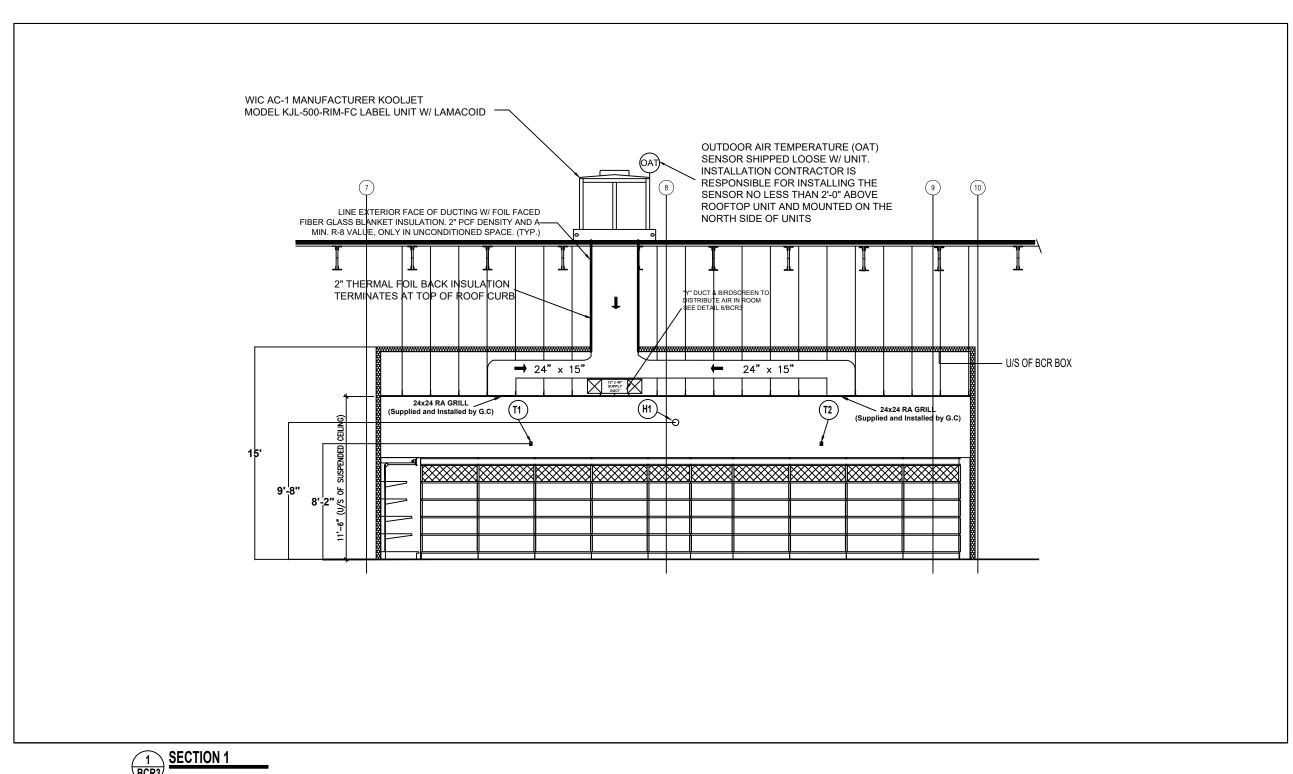
DRAWN BY: J.GORDON

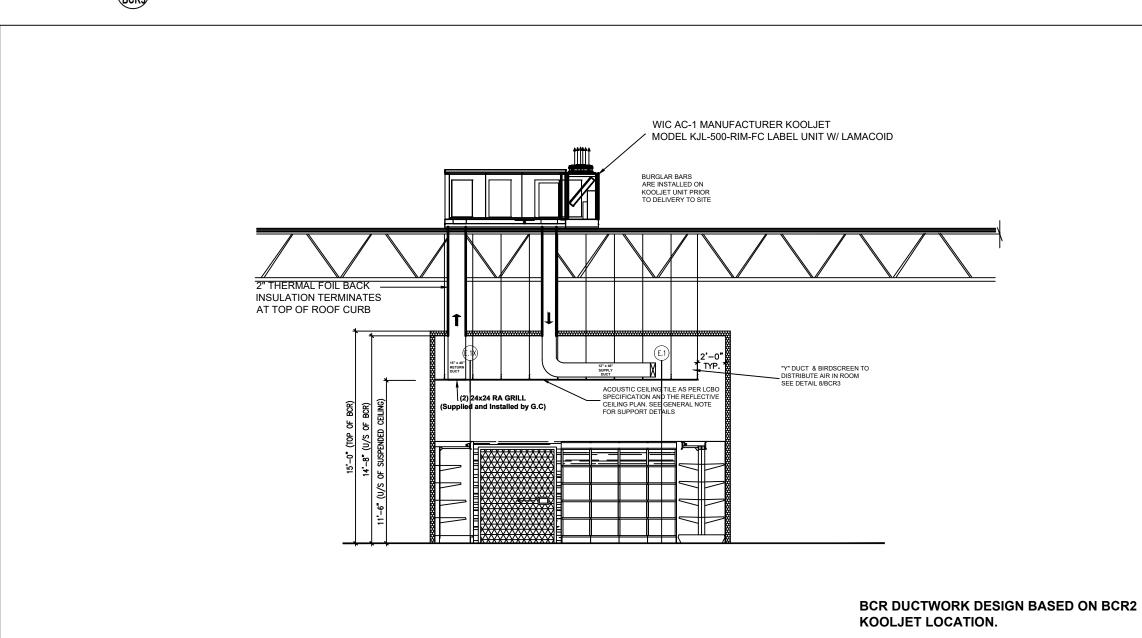
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SCALE: N/A

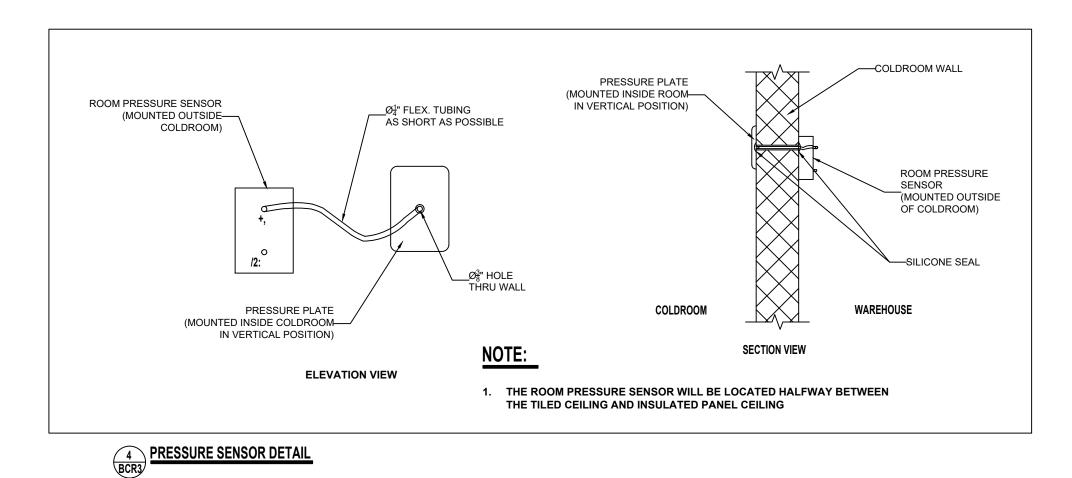
DATE: 2020-06/15

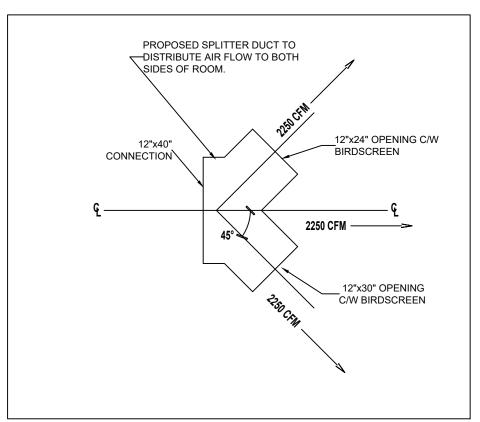
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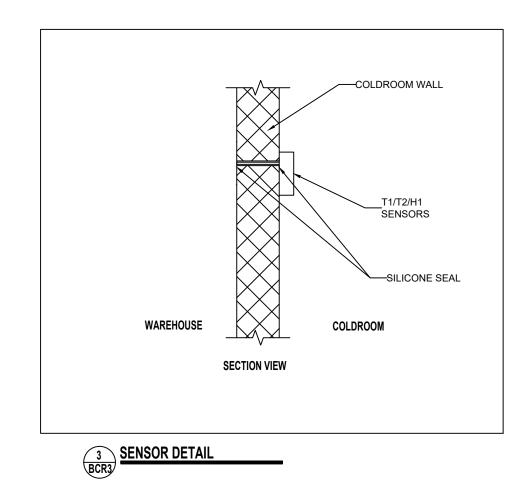


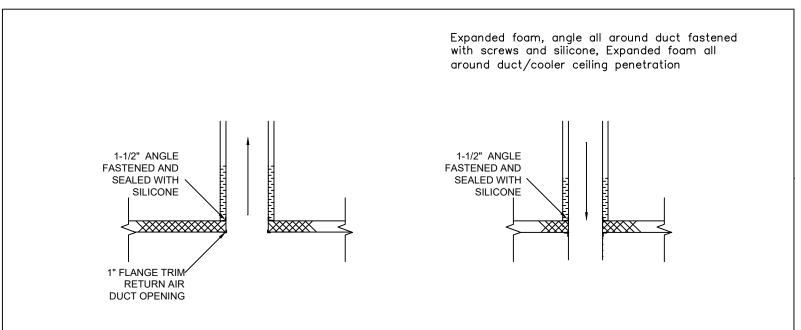














GENERAL NOTES & REQUIREMENTS

- 1. ALL EXISTING MEMBERS AND ELEMENTS THAT ARE SHOWN ARE FOR
- ILLUSTRATIVE PURPOSES ONLY.
 2. CONTRACTOR TO VERIFY IF OTHER ELEMENTS OR MEMBERS EXIST
- WHICH ARE NOT SHOWN ON THIS DRAWING.
 3. CONTRACTOR TO VERIFY DIMENSIONS, LOCATIONS AND CONDITIONS ON
- 4. BASE BUILDING STRUCTURE TO BE VERIFIED BY AN ENGINEER TO SUPPORT THE LOADS APPLIED BY THE COLD ROOM ROOF TOP UNIT AND
- THE COLD ROOM INSULATED METAL PANEL CEILING.
- 5. ACOUSTIC CEILING IN COLD ROOM TO BE SUSPENDED FROM BASE BUILDING STRUCTURE.
 6. ACOUSTIC CEILING WIRE HANGERS TO BE FED THROUGH HOLES DRILLED
- IN COLD ROOM CEILING PANEL.

 7. ALL HOLES DRILLED BY ACOUSTIC CEILING CONTRACTOR IN INSULATED METAL PANEL CEILING FOR WIRE HANGERS OF ACOUSTIC CEILING TO BE
- FILLED WITH SPRAY FOAM AND SEALED BY ACOUSTIC CEILING
 CONTRACTOR.

 8. ALL PENETRATIONS MADE IN THE INSULATED METAL PANEL MUST BE
- NEATLY FOAMED AND SEALED BY THE CONTRACTOR WHO CREATES THE PENETRATION.
- 9. ALL LIGHTS, SENSORS, DISPLAYS AND ROOF TOP UNITS ARE TO BE LABELED WITH LAMACOID LABELS.
- 10. ELECTRICAL CIRCUITS FOR THE KOOLJET UNIT, KOOLJET HMI PANEL,
 ANTHONY DOOR LIGHTS/HEATERS AND KOOLJET ROOFTOP SERVICE
 RECEPTICAL PROVIDED BY GENERAL CONTRACTOR.
- 11. KOOLJET CONTROL WIRING SUPPLIED AND INSTALLED BY NGL.

INSULATED METAL PANELS AND DOORS:

- A. REFER TO LCBO PROJECT SPECIFICATION FOR MANUFACTURER AND MATERIALS OF INSULATED METAL PANELS.
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 C. COOLER SLIDING DOOR SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW
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 D. INSULATED METAL PANEL INSTALLER IS RESPONSIBLE FOR SUPPLYING ANY SUPPORTS NEEDED FOR THE INSTALLATION OF THE COOLER RATED
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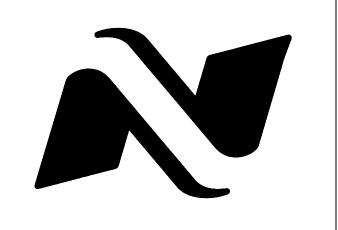
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- F. HANGER ROD SPACING AS PER INSULATED METAL PANEL MANUFACTURERS REQUIREMENTS.

NOTES

- ROOF CURB SUPPLIED AND INSTALLED BY LANDLORD ON NEW CONSTRUCTION.
- ROOF CURB SUPPLIED BY NGL & INSTALLED BY LCBO'S GENERAL CONTRACTOR ON RENOVATIONS
- KJ CONTROL WIRING SUPPLIED AND INSTALLED BY NGL
 ELECTRICAL CIRCUITS AND CERTIFICATIONS BY GENERAL CONTRACTOR

BCR DUCTWORK

- 1. DUCTWORK AS SHOWN TO HAVE 1" ACOUSTICALLY LINED
- INSULATION TO TOP OF COOLER
 2. DUCTWORK ABOVE COOLER PANEL TO BE INSULATED WITH 2"
 THERMAL INSULATION
- 3. THE SUPPLY DUCT ORIENTATION ABOVE THE 'T' BAR CEILING TO VARY AS THE POSITIONING OF THE KOOLJET UNIT IS SITE SPECIFIC.



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DATE	Νo	REVISION DETAIL
		BCR Drawing 30% review Kooljet Relocation BCR Drawing 90% review BCR Drawing Permit & Tender
06/I5/20 07/07/20	2	KOOLJET RELOCATION
07/13/20	2	BCR DRAWING 90% REVIEW
07/13/20 09/10/20	4	BCR DRAWING PERMIT & TENDER
07/10/20	_	
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PROJECT:	
	LCBO 312 Welland Irrent Design
DRAWING TITL SI	E: ECTIONS
DESIGNER:	
DRAWN BY:	J.Gordon
CHECKED BY:	S.CORBETT

N/A

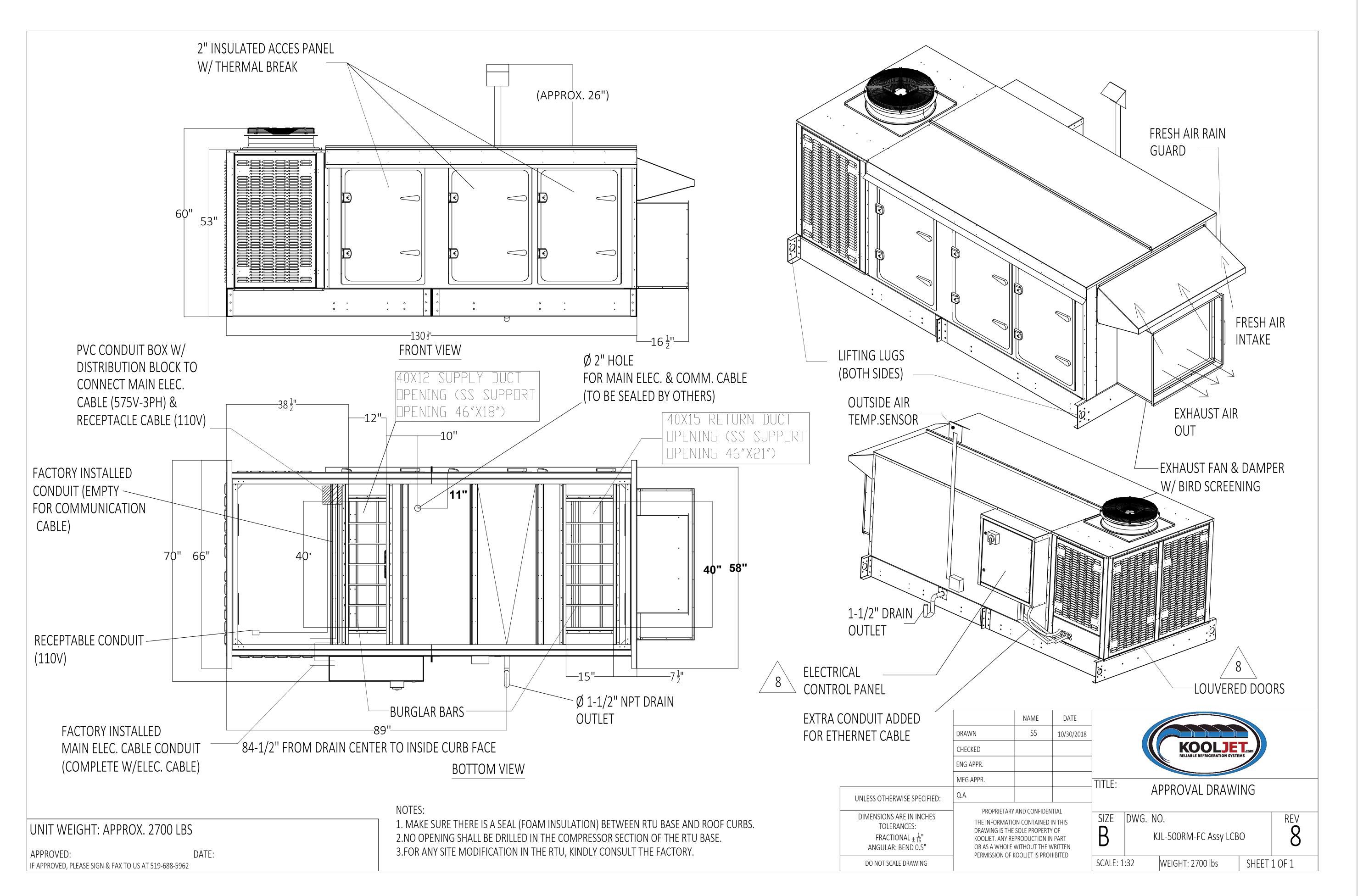
2020-06/15

BCR3

SCALE:

DATE:

DWG No:





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PROJECT:

LCBO Store #312 Welland BCR Current Design

DRAWING TITLE:

KOOLJET DETAIL

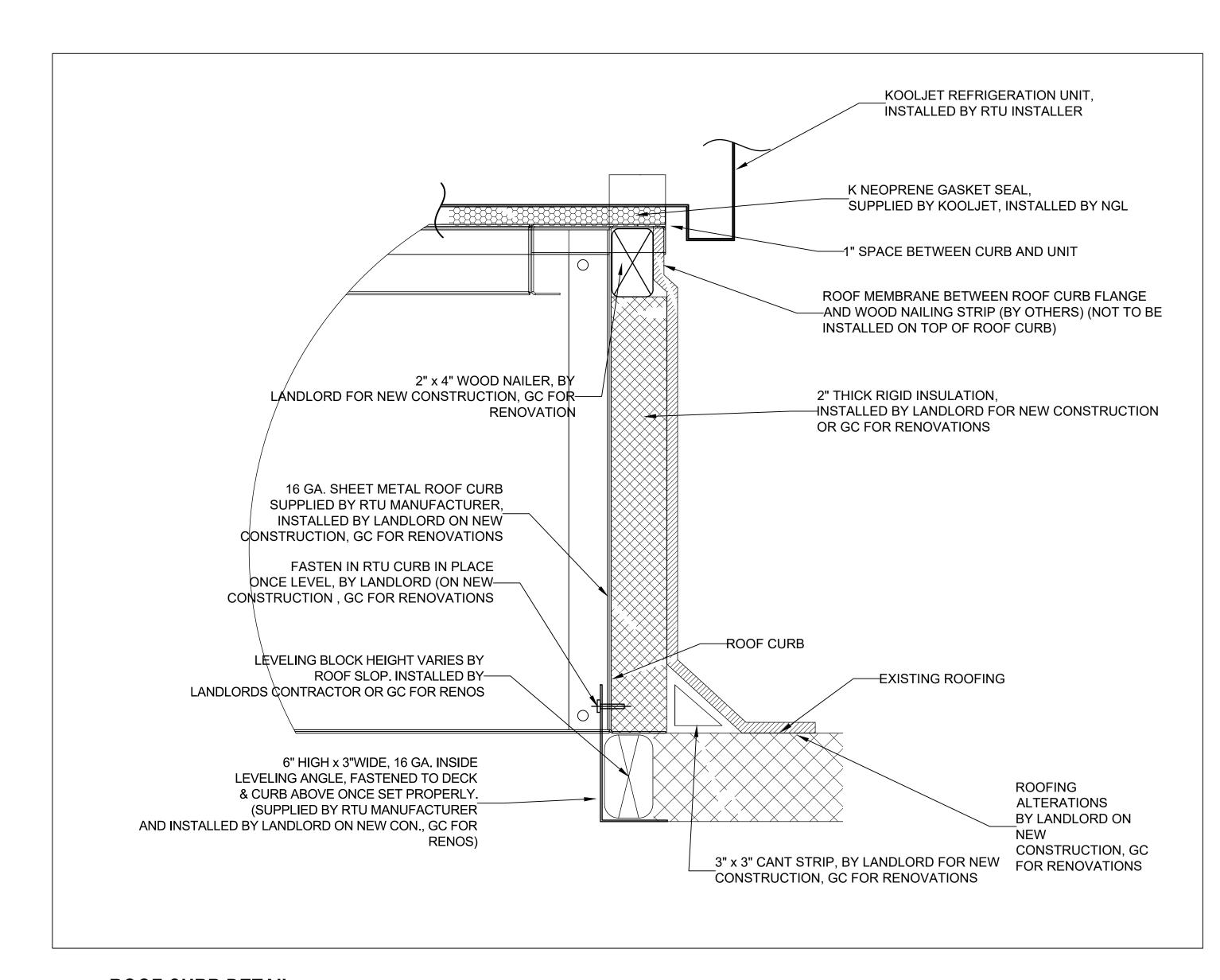
DESIGNER:

DRAWN BY: J.GORDON
CHECKED BY: S.CORBETT

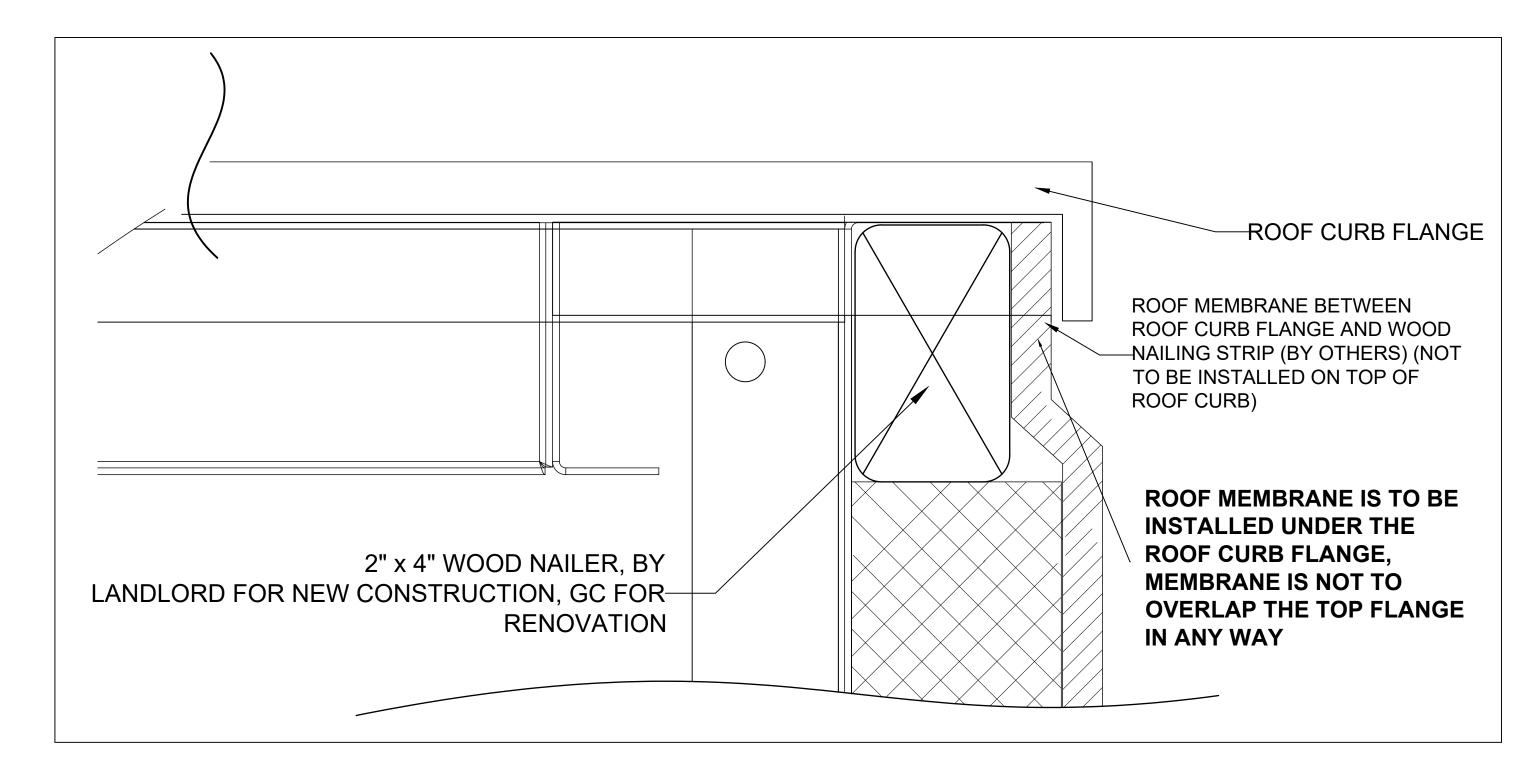
SCALE: N/A

DATE: 2020-06/15

DWG No: BCR4



ROOF CURB DETAIL

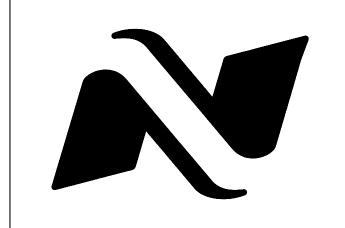


KOOLJET CURB INSTALLATIONS AS PER KOOLJET UNIT APPROVAL DRAWING DETAIL A

- ONLY KOOLJET MANUFACTURED CURBS CAN BE USED FOR BCR KOOLJET UNIT INSTALLATIONS
- PLACE CURB OVER THE STRUCTURAL STEEL AND FASTEN BOTTOM FLANGE TO ROOF DECK WITH SHEET METAL SCREWS ENSURING THE CURB IS SQUARE
- FIND THE HIGHEST POINT AND SCREW TOP HALF OF CURB. USING A LEVEL BRING THE OPPOSITE SIDE OF CURB TO A LEVEL POSITION & REPEAT FOR ALL THE OTHER CORNERS
- UNIT SHALL BE SQUARE AND LEVEL AT THIS POINT
- INSTALL 2X4 WOOD NAILING STRIPS ALONG THE TOP EDGE OF THE CURB AND FASTEN FROM THE INSIDE WITH 1 $\frac{1}{2}$ " SCREWS FOR ALL 4 SIDES
- INFILL ANY GAPS AROUND THE BOTTOM OF CURB BETWEEN FLANGES WITH LEVELING BLOCKS (WOOD)
- INSTALL 2" RIDGED INSULATION ALL AROUND THE CURB OVERLAPPING ON CORNERS (BASE BUILDING GC TO PROVIDE PICTURES OF FINISHED INSULATION ON KOOLJET ROOF CURB PRIOR TO INSTALLATION OF ROOF MEMBRANE)
- INSTALL CANT STRIP ALL AROUND THE CURB AT ROOF LINE
- INSTALL NEW ROOF MEMBRANE IN BETWEEN THE 1' FLANGE AND NAILING STRIP ALL AROUND UNIT CURB ENSURING THE MEMBRANE DOWN NOT GO OVER TOP OF THE CURB ITSELF
- CAULK ALL CORNERS AND SEAMS AROUND ROOF CURB
- INSTALLATION OF CURB IS NOW COMPLETE
- COMPLETED BASE BUILDING KOOLJET CURB INSTALLATION TO BY INSPECTED BY COLD ROOM CONSULTANT

NOTES

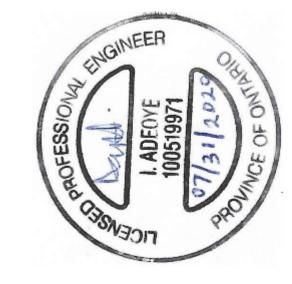
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PROJEC

LCBO Store #312 Welland BCR Current Design

BCR5

DRAWING TITLE:
SECTIONS

DESIGNER:

DRAWN BY: J.GORDON
CHECKED BY: S.CORBETT

SCALE: N/A
DATE: 2020-06/15

DWG No:

REFRIGERATION EQUIPMENT

TECHNICAL SPECIFICATIONS

MANUFACTURER: MODEL #:

KOOLJET KJL500RMFC

SYSTEM SPECIFICATIONS:

SYSTEM CAPACITY: GROSS COOLING CAPACITY: TEMP. UNIT WEIGHT:

4.54 TONS (54,500 BTUH) PER UNIT 3.95 TONS (47,500 BTU/HR) @ 10°C BOX 2,700 LBS (1200 KG) PER UNIT

EVAPORATOR FAN DETAILS:

FAN TYPE: DIRECT DRIVEN CENTRIFUGAL FAN 4,500 CFM @ 2.0" WG TSP FAN CAPACITY: FAN MOTOR TYPE: FAN MOTOR CAPACITY: 3 HP

EVAPORATOR DETAILS:

3/8". 6 ROWS. 6 FPI-DX COIL **EVAPORATOR TYPE:**

W/ SINGLE CIRCUIT REFRIGERANT TYPE: R-404a RATED EVAPORATOR AIR FLOW: 4,500 CFM DEFROST TYPE: HOT GAS DEFROSTING

ROOM AIR ENTERING & LEAVING CONDITIONS:

EVAPORATOR EAT (DB): 50°F (10°C)

EVAPORATOR EAT (WB): 43.6°F (6.4°C) (60% RH, 36.7°F (2.6°C) DP) EVAPORATOR LAT (DB): 38.6° F (3.7°C) EVAPORATOR LAT (WB): 37.3°F (3.68°C)

COMPRESSOR DETAILS:

COMPRESSOR TYPE: COPELAND SCROLL COMPRESSOR COMPRESSOR CAPACITY: 5 NOMINAL HP COMPRESSOR EER: 11.8

CONDENSER DETAILS:

CONDENSER TYPE: AIR COOLED - FIN & TUBE TYPE CONDENSER FAN TYPE: AXIAL FANS EC MOTOR

RATED AIR FLOW: 5,400 CFM AMBIENT TEMP: 95°F (35°C)/60% RH (SUMMER) & 32°F(0°C) (WINTER)

REHEAT COIL DETAILS:

34". 1 ROW. 8 FPI-SINGLE CIRCUIT REHEAT COIL TYPE: REFRIGERANT TYPE: RATED EVAPORATOR AIR FLOW: 4,500 CFM REHEAT MEDIUM: HOT GAS

FILTER DETAILS:

FILTER TYPE: HIGH EFFICIENCY SYNTHETIC MEDIA TYPE, MERV 10 or HIGHER INITIAL RESISTANCE: 0.31" WG FINAL RESISTANCE: 0.8" WG

ECONOMIZER DETAILS:

AN ECONOMIZER CONSISTS OF AN OUTDOOR MODULATING DAMPER, RETURN AIR MODULATING DAMPER, VARIABLE SPEED EXHAUST FAN AND A RELIEF DAMPER. DURING FREE COOLING MODE, ECONOMIZER SHOULD MODULATE THE VOLUME OF OUTSIDE AND RETURN AIR. THE SUPPLY AIR TEMPERATURE MUST BE WITHIN 1°C−5°C.

THE OUTSIDE AIR AND RETURN AIR DAMPERS MUST BE OPPOSED BLADE. ALUMINUM CONSTRUCTION.

ECONOMIZER OUTSIDE AIR AND EXHAUST AIR HOODS MUST BE COMPLETE WITH BIRD SCREENS. THE RELIEF DAMPER SHOULD ONLY ALLOW THE BUILDING AIR TO EXHAUST,

PREVENTING OUTSIDE AIR FROM ENTERING INTO THE BUILDING THROUGH THE

THE EXHAUST FAN MUST BE VARIABLE SPEED. THE FAN SPEED SHOULD VARY WITH THE MODULATING O/A DAMPER. THE FRESH AIR DAMPER WILL BE OPEN 2.9% AT ALL TIMES DURING OCCUPIED MODE TO ACHIEVE FRESH AIR REQUIREMENTS. THE FRESH AIR REQUIREMENT SHOULD EQUAL TO 0.12 CFM/SF.

ELECTRICAL SPECIFICATIONS

INCOMING VOLTAGE: MINIMUM CURRENT AMPACITY (MCA): MAX. OVERCURRENT PROTECTION(MOP): 20 AMPS CONTROLS:

15 AMPS PLC BASED THERMOSTAT CONTROLLER -SHIPPED LOOSE WITH UNIT

575V/3PH/60Hz

CERTIFICATION:

CERTIFIED (QPS CERTIFICATION) AS PER UL/CSA STANDARDS

DESIRED COLD ROOM CONDITION:

TEMPERATURE SET POINT: 10°C

RELATIVE HUMIDITY: 60%

EMERGENCY CUT OFF TEMP.: 6.5°C

FREE COOLING SET POINT: 0°C

SYSTEM SUMMARY:

THE BEER COOLER WILL UTILIZE ONE (1) ROOF TOP UNIT (LABELED AC-1) LOCATED ON BUILDING ROOF AND DUCTED INTO THE COOLER SPACE. THE REFRIGERATION UNIT WILL BE A SELF-CONTAINED TYPE REFRIGERATION SYSTEM. TWO TEMPERATURE SENSORS WILL BE IMPLEMENTED WITH PRIMARY AND SECONDARY OPERATING PARAMETERS. THE TWO (2) TEMPERATURE SENSOR LOCATIONS ARE SHOWN ON DRAWING BCR1

DURING FREE COOLING, THE EVAPORATOR/ECONOMIZER FANS WILL MODULATE DEPENDING ON INSIDE ROOM CONDITIONS.

DURING MECHANICAL COOLING, THE EVAPORATOR FAN WILL RUN AT THE MAXIMUM SET SPEED AND O/A DAMPER IS 2.9% OPEN. THE EVAPORATOR FAN WILL OPERATE AT THE MINIMUM SET SPEED (50%), WHEN THE COOLING SET POINT IS ACHIEVED.

SEQUENCE OF OPERATIONS:

THE BEER COLD ROOM WILL OPERATE WITH ONE ROOF TOP UNIT DESIGNED TO MAINTAIN THE COLD ROOM AT THE DESIRED TEMPERATURE (OCCUPIED & UNOCCUPIED MODE) AND RELATIVE HUMIDITY. OCCUPIED AND UNOCCUPIED PARAMETERS ARE THE SAME.

PRIMARY OPERATING PARAMETERS:

AC-1 (COLD ROOM ROOF TOP UNIT 1) WILL OPERATE ACCORDING TO ROOM TEMPERATURE SENSORS T1 AND T2 BASED ON THE FOLLOWING PARAMETERS:

1. IF T1 OR T2 IS GREATER THAN THE ROOM SET POINT (OCCUPIED OR UNOCCUPIED) COOLING IS ENGAGED.

2.IF T1 AND T2 ARE EQUAL TO OR LESS THAN THE ROOM SET POINT (OCCUPIED OR UNOCCUPIED) COOLING IS DISENGAGED. EVAPORATOR FAN WILL REMAIN RUNNING AT 50% OF SET SPEED

3.IF T1 OR T2 IS LESS THAN THE ROOM EMERGENCY CUT OFF TEMP. COOLING IS DISENGAGED.

ROGUE SENSOR PARAMETERS:

A ROGUE SENSOR ALGORITHM IS REQUIRED TO DISREGARD A SENSOR WHEN IT MAY HAVE FAILED. IF A SENSOR IS DEEMED ROGUE, THE SENSOR WILL BE EXCLUDED FROM THE SEQUENCE OF OPERATION (BUT THE TEMPERATURE TREND SHOULD STILL BE RECORDED). THERE WILL BE A LOCAL YELLOW LIGHT ALARM INDICATING THE ROGUE SENSOR. THE ALGORITHM SHOULD BE EXECUTED IN ALL INSTANCES PRIOR TO TURNING ON THE ROOF TOP

A SENSOR IS CONSIDERED ROGUE IF THE FOLLOWING PARAMETERS OCCUR:

- 1. IF EITHER T1 OR T2 HAS AN ABSOLUTE VALUE GREATER THAN OR EQUAL TO "ROUGE" SENSOR SET POINT" VALUE FROM THE DESIGN ROOM SET POINTS (OCCUPIED OR UNOCCUPIED)
- 2. THE TEMPERATURE DIFFERENCE BETWEEN T1 AND T2 IS GREATER THAN OR EQUAL TO "ROUGE SENSOR SET POINT" VALUE.

IF SUCH PARAMETERS OCCUR. MANUFACTURER SHOULD BE CONTACTED TO TEST AND CALIBRATE THE TEMPERATURE SENSOR(S).

FREE COOLING MODE PARAMETERS:

DURING COLDER MONTHS OF THE YEAR, COOL OUTSIDE AIR WILL BE BROUGHT INTO THE BEER COLD ROOM THROUGH THE ECONOMIZER IN ORDER TO MAINTAIN DESIRED ROOM TEMPERATURE. THE FREE COOLING WILL OPERATE ACCORDING TO THE FOLLOWING PARAMETERS:

1. THE FREE COOLING DAMPER IS OPERATED BY THE OUTSIDE AIR TEMPERATURE. THE DAMPER IS OPENED WHEN THE TEMPERATURE OUTSIDE IS LESS THAN OR EQUAL "FREE COOLING SET POINT"

2. THE OUTSIDE AIR WILL MIX WITH THE RETURN AIR FROM THE ROOM BEFORE ENTERING THE COLD ROOM.

3.FREE COOLING WILL BE ENGAGED WHEN T1 OR T2 IS ABOVE DESIGN ROOM SET POINTS (OCCUPIED OR UNOCCUPIED) 4.DURING FREE COOLING, THE EVAPORATOR FAN, O/A DAMPER AND RETURN AIR DAMPER

WILL BE MODULATING AS PER THE SUPPLY AIR TEMPERATURE. 5. THE MECHANICAL COOLING FOR AC-1 WILL DISENGAGE WHEN T1 AND T2 IS AT OR BELOW THE ROOM SET POINT (OCCUPIED OR UNOCCUPIED). ONCE THE MECHANICAL COOLING IS DISENGAGED AND THE AMBIENT TEMP IS BELOW THE FREE COOLING SET POINT THE

6.FREE COOLING WILL DISENGAGE AND O/A DAMPER WILL CLOSE IF T1 OR T2 IS AT OR BELOW ROOM EMERGENCY CUT OFF TEMP. AND AC-1 WILL REMAIN DISENGAGED.

7.IF FREE COOLING FAILS (IE. DAMPER WILL NOT OPEN), THE SYSTEM WILL ENGAGE THE PRIMARY SEQUENCE.

8.AFTER 120 MINUTES OF FREE COOLING, IF T1 OR T2 IS STILL 2° (DEAD BAND) ABOVE THE ROOM SET POINT (OCCUPIED OR UNOCCUPIED), AC-1 WILL ENGAGE TO ASSIST MECHANICAL COOLING.

LAMACOID LABELS

LABELING OF SENSORS AND DEVICES DONE BY NGL / KOOLJET. LABELING OF ELECTRICAL CIRCUITS TO BE DONE BY ELECTRICAL CONTRACTOR.

MECHANICAL DUCTING SPECIFICATION

SYSTEM WILL RESTART IN FREE COOLING MODE.

- 1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS SUCH AS THE ONTARIO BUILDING CODE, CSA STANDRARDS, ULC STANDARDS. CANADIAN ELECTRICAL CODE, ONTARIO HYDRO STANDARDS, CGA STANDARD CAN. 1-B149.1.1-M80 AND LOCAL MUNICIPALITY AND FIRE MARSHALL'S REQUIREMENTS.
- 2. THE MECHANICAL DRAWINGS SHALL BE CONSIDERED TO BE DIAGRAMMATIC ONLY AND NOT TO BE SCALED. VERIFY ALL NECESSARY MEASUREMENTS AND INFORMATION ON ANY EXISTING CONDITIONS FROM THE SITE.
- 3.ALL DISSIMILAR METALS (STEEL, COPPER, ETC.) SHALL BE SEPARATED FROM EACH OTHER USING GASKETS OR 'DI-ELECTRIC' FITTINGS

4.PROVIDE INSULATION TO THE DUCTWORK AS FOLLOWS:

- 4.1. DUCTWORK:
- 4.1.1. INSULATE DUCTWORK IN UNCONDITIONED SPACES WITH A MINIMUM DENSITY OF 2" PCF AND R8-VALUE FIBERGLASS INSULATION WITH FOIL FACE VAPOUR BARRIER.
- 4.1.2. PROVIDE 1" 4.5 LB/FT3 ACOUSTIC INSULATION ON ALL DUCTWORK FROM UNITS.

5. ALL DUCTWORK SHALL BE NEW, GALVANIZED STEEL.

- 5.1. MANUFACTURE AND INSTALLATION OF DUCTWORK SHALL BE TO ASHRAE AND SMACNA STANDARDS.
- 5.2. ALL INSULATION SEAMS AND JOINTS SHALL BE TAPED AND SEALED

ALARMS:

THE CONTROL SYSTEM MUST HAVE THE CAPABILITY FOR THE FOLLOWING ALARMS: -

- 1. THE SYSTEM SHALL HAVE A WARNING ALARM, IF T1 OR T2 TEMPERATURE SENSORS IS ABOVE THE HI AND LOW SET POINTS. THIS WARNING ALARM WILL BE LINKED TO A VISUAL YELLOW LIGHT OUTSIDE THE COOLER DOOR WITHIN THE EMPLOYEE ONLY AREA.
- 2. THE SYSTEM SHALL HAVE AN ALARM, IF T1 OR T2 TEMPERATURE SENSOR IS ABOVE THE HI AND LOW SET POINTS AFTER THE ALLOWABLE TIME DELAY PERIOD. THIS WARNING ALARM WILL BE LINKED TO A VISUAL RED LIGHT OUTSIDE THE COOLER DOOR WITHIN THE EMPLOYEE AREA. THE VISUAL RED LIGHT WILL REMAIN ON UNTIL SERVICE FOR THE KOOLJET SYSTEM HAS BEEN PROVIDED.

THERE SHALL BE AN ALARM IF THERE IS A FAILURE WITH ANY OF THE SENSORS. IF A SENSOR HAS GONE ROGUE, IF ANY OF RTU COMPONENTS ARE NOT OPERATING CORRECTLY AND IF FREE COOLING IS NOT OPERATING CORRECTLY, THE FOLLOWING WARNING LIGHTS WILL APPEAR FOR THE ASSOCIATED FAILURES:

- 1. SENSOR FAILURE: YELLOW LIGHT
- 2. EQUIPMENT FAILURE: RED LIGHT

3. FREE COOLING FAILURE: YELLOW LIGHT

ALL ALARMS ARE TO HAVE A TIME DELAY FROM THE FIRST INDICATION OF THE ALARM STATUS TO THE ALARM.

- 1. HI Room Temp. Alarm: 14.1°C
- 2. LOW Room Temp. Alarm: 6°C
- 3. HI HI Room Temp. Alarm: 15°C
- 4. LOW LOW Room Temp. Alarm: 5°C
- 5. Phase Loss Alarm: INCORRECT PHASE, MISSING PHASE, LOW INCOMING VOLTAGE, HIGH INCOMING VOLTAGE
- 6. Evaporator Fan Not Running Alarm: Evaporator Fan Not Running
- 7. Condenser Fan Not Running Alarm: Condenser Fan Not Running
- 8. Low Superheat Alarm: Evaporator Pressure is at/below 55 PSI and Evaporator Temp is at/below -10°C
- 9. Compressor Not Running Alarm: Compressor Not Running
- 10. COMP OFF- High Pressure Alarm: SYSTEM PRESSURE ABOVE 400 PSI
- 11. COMP OFF- High Temp Alarm: COMPRESSOR TEMP ABOVE 100°C
- 12. Comp Start Exceed Alarm: COMPRESSOR STARTED FOR 5 TIMES IN THE PERIOD OF 5 MINUTES.
- 13. Rogue Sensor Alarm: DIFFERENCE BETWEEN ROOM TEMP SENSORS TS1 & TS2 IS GREATER THAN 5°C
- 14. Free Cooling Time-Out Alarm: ROOM SET POINT NOT REACHED DURING IN 2 HOURS IN FREE COOLING
- 15. Change Filter Alarm: FILTER CHANGE TIME EXCEEDED 2500 HOURS
- 16. Dirty Filter Alarm: FILTERS CLOGGED MORE THAN 80%
- 17. Room Pressure Sensor Alarm: ROOM PRESSURE IS ABOVE OR BELOW 0.25 IWG
- 18. Coil Frosted Alarm: EVAPORATOR TEMP. IS AT/BELOW -10°C

DEHUMIDIFICATION MODE PARAMETERS:

DEHUMIDIFICATION MODE OCCURS WHEN THE COLD ROOM TEMPERATURES ARE SATISFIED BUT THE RELATIVE HUMIDITY (RH) INSIDE THE COLD ROOM IS ABOVE THE RH SET POINT. THE SYSTEM ONLY DEHUMIDIFIES THE ROOM WITHOUT ANY ADDITIONAL COOLING. THE FOLLOWING ARE THE PARAMETERS & OPERATION FOR DEHUMIDIFICATION:

- 1. THE HUMIDITY (RH) SENSOR IN THE COLD ROOM RELAYS THE RELATIVE HUMIDITY INSIDE THE COLD ROOM TO THE PLC.
- 2.IF THE DESIRED ROOM TEMP. IS REACHED BUT THE RH WITHIN THE ROOM IS ABOVE RH SET POINT, DEHUMIDIFICATION MODE IS ENGAGED.
- 3. THE EVAPORATOR FAN DRAWS IN HUMID AIR AND CARRIES IT THROUGH A REFRIGERATED EVAPORATOR.
- THE COLD SURFACE OF THE EVAPORATOR AND DRIPS INTO AN INSULATED DRAIN PAN. 5. THE NOW COOL DRY AIR CONTINUES THROUGH A HOT "RE-HEAT" COIL WHICH BRINGS THE COLD AIR TEMP. UP AND RETURNS IT TO THE ROOM TO PICK UP NEW HUMIDITY.

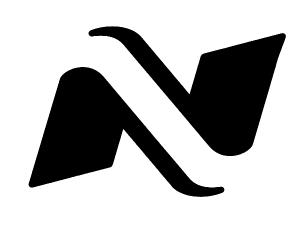
4. THE MOIST AIR IS COOLED TO BELOW ITS DEW POINT, THE MOISTURE IN THE AIR CONDENSES ON

6. THE PROCEDURE IS REPEATED UNTIL THE DESIRED RELATIVE HUMIDITY LEVEL IS REACHED.

ANTHONY DAIRY DOOR DEFROST PARAMETERS:

THE DAIRY DOORS HAVE A DEFROST FUNCTION WHICH HEATS THE FRAME OF THE DOORS TO RESIST FROST AND MOISTURE FROM COLLECTING ON THE FACE OF THE GLASS DOORS. THIS PROCESS IS CONTROLLED BY THE FOLLOWING PARAMETERS:

- 1. A HUMIDITY SENSOR IS PLACED OUTSIDE THE COLD ROOM TO MEASURE THE RELATIVE HUMIDITY OF THE STORE.
- 2.IF THE RELATIVE HUMIDITY IS ABOVE 50% RH, THE DAIRY DOOR DEFROST WILL ACTIVATE AND REMAIN ACTIVE UNTIL THE RELATIVE HUMIDITY IN THE STORE DROPS BELOW 50% RH.



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PROJECT:

LCBO Store #312 Welland BCR Current Design

DRAWING TITLE:

DESIGNER:

DATE:

MECHANICAL SPECIFICATIONS

DRAWN BY: J. GORDON CHECKED BY: S.CORBETT

SCALE: N/A

2020-06/15 BCR6 DWG No: