

Date: March 11, 2024

(59 pages)

Addendum No. 3**Request for Proposal Call No. NRFP2024-027
CONSTRUCTION OF CENTURY GARDENS YOUTH HUB**

This Addendum forms part of the Bid/Proposal Document.

1. Pertaining to Specifications and Drawings

ADD “Two Piece Precast Foundation” as attached (1 page).

Refer to the Consultant’s Addendum 3 & 4 as attached (26 pages).

2. Clarification regarding Part A Information for Bidders – Instructions to Bidders, #18 Bid Validity Period

As this RFP Call is a negotiable procurement process, a Bid Validity Period is not applicable. Proposals are not required to be irrevocable, and a Bid Bond is not a requirement.

No legal relationship or obligation regarding the procurement will be created between the Bidder and the City by this RFP Call Process until the successful negotiation and execution of a written agreement for the Work.

3. Clarification regarding Part B Evaluation – Evaluation Criteria, Step Five

After completion of Step Four, the Bidder with the lowest price Proposal and the City will enter into direct contract negotiations to discuss any efficiencies that may be found and finalize an agreement.

4. Questions and Answers

Question 1:

Refer to specification 25 90 00, Item #2.7 BACnet Lighting Controller. There appears to be conflicting information in this specification. Item #2.7.1 first states that the BAS contractor shall supply and install the lighting controllers and then in the same paragraph it states that the BAS shall provide full integration with the lighting control system provided by Division 26. Section 26 54 00 also describes a lighting control system, provided by Division 26. Please clarify which division shall supply the lighting control system.

Answer 1:

Refer to latest addendum. Item #2.7.1 is removed and now it states that "BAS shall be integrated with lighting controller provided by Division 26. BAS shall be able to command and override the Lighting control". So, Division 26 will be supplying lighting control and integration shall be done by BAS contractor.

Question 2:

Please provide a finishes schedule

Answer 2:

Project finishes are provided on the drawings and referenced in the specification; no finishes schedule is required.

Question 3:

Drawing A201, please provide specifications for PREFIN-1

Answer 3:

Prefin-1 is a typo – disregard.

Question 4:

In order to price the audio-visual scope of work, I will need the Manufacturer, Model numbers for the following:

Automation control, Amplification, video distribution modules, speakers, Display screens, Touch panels.

Answer 4:

AV equipment is to be supplied under Cash allowance and installed by the Electrical Contractor. Refer to section 01 21 00 in the specification for cash allowance.

Question 5:

We received below answer,

Question: As per Specification Division 32 37 00 2.2.3 Lounge Chair products, however we are unable to find in the Landscape drawings. Could you please confirm?

Answer: Section 32 37 00 Part 2.3 is Titled "Picnic Table and Bench" which correlates to detail 4/L5.01 titled "Picnic Table & Bench (FFE)

However please confirm as mentioned below,

Question: As per above answer Section 32 37 00 2.2.3 Lounge Chair is not in the scope? Please confirm?

Answer 5:

The Picnic Table and Bench Lounge chair is in the project scope and is an FFE item, to be covered by Cash Allowance.

Question 6:

As per Cash allowance Section 01 21 00 1.2.8.4 FF & E \$ 700,000. Could you please provide us the list of Items included in Cash Allowance of FF & E, or confirm which section should be the part of FF & E?

Answer 6:

There is no individual specification section for FF&E, note: furniture selection has not yet been finalized.

Question 7:

Structure Drawing S001 310000 6. -Before placing Slab place 200mm of 20mm Clear crushed stone-. However, Architecture Drawing A010 SL1 and Geotechnical Report 6.7.3 Slab-On Grade 150mm Granular Aggregate. Could you please confirm the Thickness?

Answer 7:

The geotechnical recommendation will govern.

Question 8:

Refer to specification 25 90 01, Item 3.1.12 – Make-Up Air Unit sequence of operation and Specification 23 74 00 Make Air Units. The sequence of operation for the BAS refers to a BACnet card being provided with the unit, but the Make-Up Air Unit specification does not indicate a BACnet interface will be provided. Please clarify if the interface to the BAS is through BACnet communications or a hard-wired terminal strip.

Answer 8:

Refer to Mechanical Add #1

Question 9:

Refer to specification 25 90 01, Item 3.1.14 – Metering. The specification calls for metering of 'Heating' and 'Cooling'. Please clarify what systems these are referring to, as there are no specific heating or cooling loops shown on the drawings.

Answer 9:

Refer to Mechanical Add #1

Question 10:

Refer to specification 25 90 01, Item 3.1.14 – Metering. The specification calls for metering of Interior Lighting and Plug Load. Please clarify how these are to be metered – is there one meter per circuit, provide by the BAS contractor? There does not seem to be a central location to monitor the all the interior Lighting or Plug Loads from a single meter for each.

Answer 10:

Main electrical meter provided by Division 26 has to be integrated and monitored by BAS system.

Question 11:

Is the BAS required to integrate the Lighting Control System through a BACnet interface? Refer to section 26 54 00, Item 3.9 BMS Integration.

Answer11:

Refer to Mechanical Add #1

Question 12:

Is the BAS required to integrate the electrical Switchboards? Refer to Section 26 42 00, Item 2.1.8.1.

Answer 12:

Yes it, has to be integrated and monitored by BAS system.

Question 13:

Is the BAS required to integrate the heat pumps via BACnet? Refer to section 23 81 40, Item 3.1.1.

Answer 13:

Yes, Refer to Section 25 90 01 PART-3 3.1.5 of the latest specifications.

Question 14:

a) As you see on A710 , the Esc 02 - Esc12 drawings show individual screen width dimensions as well as overall width dimensions.
Are each of the RWS window shades requested just the individual screen dimension? or are some screens combined to make wider window shades?
For instance, Esc 07 - Games Room South 5 drawing (A710) shows 3 individual screens (each 1029mm) and a combined width (3086mm).
Esc 07 is between A150 grid lines 2 and 3. To the right of Esc 07 are Esc 06, 05, 04, 03 and 02 and are shown in this order on A710.

b) Does Esc 02 have window shades for the full 3295mm or just the left screen panel (1045mm)? On drawing A410, Enlarged Plan South Vestibule shows Esc 02 in a way that it could be just the left screen panel and the middle and right screens are inside the vestibule and may or may not get window shades.

c) Esc 01 is shown on the south side of the South Vestibule but does not seem to receive any window shades as per A150, between grid lines 5 and 6. Is this correct?

Answer 14:

- a) Rollershades to be provided to accommodate full width of window, any required breaks in shade elements due to product specific limits shall be located at mullion lines.
- b) Esc 02 only has a shade at the left screen panel
- c) Esc 01 does not have any window shading

Question 15:

Are the heights for the window shades for Esc 07 , 06, 05 , 04, 03 to the Mechanical roof or to the lower ceiling level shown? On drawing A710, Esc 07, the height to the Mechanical roof is 866mm above the height of the lower ceiling roof. The height to the lower ceiling is a constant 2632mm for all Esc 07 to Esc 02 but the additional height to the Mechanical roof varies.

Answer 15:

Heights of window shades along south glazing varies, shading to extend from mounting height (as noted on A150) to top of bench below.
Rollershades to be provided to accommodate full width of window, any required breaks in shade elements due to product specific limits shall be located at mullion lines.

Question 16:

On A710, Esc 10 (between grid line 8 and 9 north side) is there 1 or 2 RWS 2 window shades that cover that window frame?

Answer 16:

Rollershades to be provided to accommodate full width of window, any required breaks in shade elements due to product specific limits shall be located at mullion lines.

Question 17:

On A710, Esc 09 (between grid lines 4 to 6 north side) are there individual window shades for each individual window (approximately each 1117mm width)? and the same question for Esc 06 west side (between grid lines A and C; approximately each 1344mm width) ?

Answer 17:

Rollershades to be provided to accommodate full width of window, any required breaks in shade elements due to product specific limits shall be located at mullion lines.

Question 18:

On A710, Esc 12 (between grid lines 6 and 8 at 7) , A 150 shows this window to be shared by 2 rooms (small meeting and a conference room); are there 2 window shades here; one for each room?

On A710, SP Office East - Esc 11, does each office receive one window shade that could be for 2 or 3 windows (3000 or 4500mm) or does each individual window screen receive one window shade (1500mm)?

Answer 18:

There are two separate shades here as noted on A150. Heights of window shades along south glazing varies, shading to extend from mounting height (as noted on A150) to top of sill below.

Each office to have separate rollershades. Rollershades to be provided to accommodate full width of window, any required breaks in shade elements due to product specific limits shall be located at mullion lines.

Question 19:

If City of Brampton can schedule a mandatory site walkthrough for this tender, architectural drawings show there is an existing building to be totally demolished, however drawings don't provide existing building details, so a mandatory site meeting

will be helpful, and if city can provide existing building as-built drawings for reference, if any electrical and mechanical demolition work involved?

Answer 19:

No mandatory site walk is to be scheduled for the site. The existing building is deemed inaccessible, but the contractors are welcome to stop by the site to familiarize themselves with the site at their discretion. Please refer to the provided DSS for additional on the Lawn Bowling Clubhouse to be demolished. The building is currently unpowered, and the water is shut off.

Question 20:

Drawing A008, drawings don't show if existing trees to be removed? and if any utility (GAS/Electrical/Plumbing) connect to the existing building, if the design /consultant team can clarify above items.

Answer 20:

See above and demolition drawings.

Question 21:

Please have the engineer update the grilles / diffuser schedule. Suppliers are not able to price this schedule.

Answer 21:

We have used EH price for selection for grilles and diffusers. We don't provide grille/ diffuser schedule, contractor has to refer to the drawings and specs to understand the grille type and the count the required quantities. We have removed the old schedule in latest Mechanical addendum-1.

Question 22:

There seems to be a discrepancy between the Drawing and the Specs for the fence height.

Drawing shows 4' (1200mm) high panel and specs show 5' (1549mm) high panel. Please advise which is correct.

Answer 22:

1200mm is correct.

Question 23:

Regarding the Audio Visual SoW / functional description. I see references to equipment specifications in the electrical drawing set but no functional description. Do you know who the AV Consultant is? Can we obtain more details related to the intended operation of the systems?

Answer 23:

Jain Sustainability Consultants are the A/V Consultant on the project. However please note that AV equipment is to be supplied under Cash allowance. Refer to Section 01 21 00 in the specification.

Question 24:

We need to know the size and material for the 47 door signs.

Answer 24:

Refer to A961 and A962 for sign details.

Question 25:

Landscaping drawings L2.00:

- 1) if parking lot to receive new asphalt pavement? if new curb is required?
- 2) if to receive new parking line painting?
- 3) If parking signage is part of this tender scope?

Answer 25:

- 1) Refer to Civil drawings for asphalt and curb scope.
- 2) South parking lot to be re-painted as per landscape and Civil documents.
- 3) Parking signage to be included.

Question 26:

Drawing L2.00:

- 1) Need landscaping dimensions and elevations on drawings.
- 2) need detail drawings for Picnic table and bench. what is concrete requirement at benches?
- 3) need detail drawings for wood platform.
- 4) need engineered wood fiber details and specifications.

Answer 26:

- 1) Dimensions provided on L1.00, L4.00, L4.01, L5.00, L5.01, L5.02, and L5.03
- 2) Refer to landscape specification section 32 37 00 (2.3.1)

- 3) Refer to details provided on L5.02
- 4) Refer to specification section 32 91 13

Question 27:

Drawing L2.00:

If any storm drainages required on landscaping layout?

Answer 27:

Refer to Civil drawings for all stormwater drainage scope.

Question 28:

- 1) Please confirm whether all Connection Panels include AV in/output panels as Floor Box
- 2) The network diagram (E508) shows different quantities of the following compared to the floor plan (E500). Unaccounted items are listed below :
 - 2 x AV input plate @ multipurpose rooms (1.0 ea)
 - 2 x presentation TX @ small meeting rooms (1.0 ea)
 - 2 x presentation TX @ ideation rooms (1.0 ea)
 - 2 x mic antenna @ multipurpose rooms (1.0 ea)

Answer 28:

- 1) Connection panel requires only connection to TV.
- 2) Please consider total 2 nos AV input panel in multipurpose hall (1 per room)
Please reconsider to be Touch panel instead.
Please reconsider to be Touch panel instead.
Please consider 2 nos mic antenna for Multipurpose rooms.

Question 29:

Please confirm the interior glass partition frame material.
Section 08 42 26 of the specifications shows CR Laurence u-channel Frameless design and details G, F, W / A800 show glass shoe. But on both the door schedule A700 and screen schedule A702 note the frame as wood.

Answer 29:

Refer to schedules provided on A720 INTERIOR SCREEN SCHEDULE for interior screen types. Three types are noted: SF1 solid wood frames, SF2 solid wood frames, and SF3 Solid wood perimeter frame, CW5 Aluminum frame. The CR Laurence U channel glass shoe is not in use.

Question 30:

1. In drawing no.-E201, 'L3A' type light fixture is shown in Admin Storage Room. But there is no type 'L3A' light fixture given in the luminaire schedule given in drawing no.- E100.
2. In drawing no-E400, note 25 is shown near to metering legend in the single line drawing but there is no note no.25 shown in the drawing notes column.
3. There is no specification given the tender documents for the 225 KVA transformer shown in the drawing no. E400 .
4. The Digital metering system is provided by the system supplier according to the section 26 09 23 of the tender document. Please confirm the who is the system supplier, and it is not in scope of work of electrical contractor.
5. Please confirm the incoming breaker for distribution panel- DP-BB shown in drawing no.E400. There is no incoming breaker shown presently.

Answer 30:

1. L3A shall be as follow:
Luminaire type L3A: 120V, 8' long, surface mounted, led luminaire, 62w, 6800 lumens., 3000k, 0-10v dimming driver.
CREE Lighting# LS8-80L-930-R-UL-10V-120V
Lumenpulse, Fluxwerx, Eralux
2. This item is already addressed in the previously issued addendum
3. The specs for the dry type transformer shall be as follows:

DRY TYPE TRANSFORMERS

- .1 Dry-type transformers shall be three-phase indoor dry-type, 60 cycle type ANS, natural draft, air-cooled, manufactured in accordance with CEMA Specification L2, CSA C22.2 No. 47, CSA C9-1966, ASA C57.12, NEMA TRI, and latest revision thereof. They shall be metal enclosed in ventilated code gauge steel enclosures, finished ASA No. 61. Overall dimensions of transformers shall not exceed those noted on the drawings.
- .2 Windings for three phase transformers shall be copper 1.2 KV class, 10 KV B.I.L., high voltage winding delta-connected 600 volt; low voltage winding 208/120 & 220/120 volt wye connected. Primary winding shall include four 2-1/2 percent taps arranged two above and two below, normal voltage. Insulation to be rated Class B - 80 deg. C. Unit design shall incorporate a vibration isolation system.
- .3 Transformers shall have an electrostatic shield located between the primary and secondary windings. Terminate the shield at an isolated terminal in the terminal connection area.
- .4 Transformer shall be high-efficiency type, meeting maximum loss limits specified in CSA C802-94.
- .5 Transformers shall be manufactured by:
 - .1 Rex Manufacturing
 - .2 Square 'D'
 - .3 Hammond Manufacturing

- .4 Delta
- .5 or approved

4. The system supplier is **CARMA Corp.**

The Digital Metering System shall be completely provided as part of the base bid by the electrical contractor.

Revise the following items under electrical spec section 26 09 23:

Item 1.1.1: All Division 26 general and specific requirements apply to all electrical bidders, as do the requirements of this subsection, utilities submetering system. Division 26 must purchase/supply/install all utilities submetering system equipment. Purchase/supply and installation of mechanical meters (water, natural gas, BTUs, fluid, etc.) to be provided by Division 21, 23 and 25 mechanical bidders as a supplement to the electrical install price for the submetering system. The design criteria for the Digital Metering System is based on the CARMA Metering Manager System as manufactured by CARMA CORP. The Contractor shall be responsible for all costs associated for proceeding with an acceptable alternate manufacturer as listed in this specification for a fully operational system

Revise the title of item 1.6 to read : "Utilities System Components Provided by Electrical Contractor (Carma Corp. – The Meter Manager™ System Supplier)

5. Main breaker for electrical panel DP-BB is not required.

Question 31:

According, Addendum 1 Q & A # 4 - The Picnic Table and Bench Lounge chair is in the project scope and is an FFE item to be covered by Cash Allowance. - However, it is part of Section 32 37 00 Site Furnishing. Could you please confirm that all the benches in the Site furnishing is part of FFE? or just Picnic Table and Bench section 2.3?

Answer 31:

All FF&E items should be included in the FF&E allowance. Only the site furnishing items listed as FFE should be included in the FF&E scope.

Question 32:

Please provide the FFE List of Items, which shows in the drawing or in the specification?

Answer 32:

All FF&E items should be included in the FF&E allowance. Only the site furnishing items listed as FFE should be included in the FF&E scope.

Question 33:

We have Section 10 26 13 Corner Guard - CG-1 Surface mounted, 150 mm x 150 mm x 1500 mm, stainless steel angle, however as per Drawing 3 & 4/A551 & Key Notes of A503 WG-1 Full height Metal plate Wall Guard-One Side & WG-2 Full Height Metal Plate

Wall Guard - Corner. Could you please confirm which one should we consider for the Tender?

Answer 33:

WG-1 & WG-2 to be considered for the Tender.

Question 34:

Drawing 5/A907 shows bench top finish is SSF3 and bench vertical finish is RAF1; and drawing 3/A907 shows both bench top and vertical finish are RAF2, please confirm drawing 3/A907 bench top is RAF2 not SSF3.

Answer 34:

Bench M1041.2 top to be WDS-MP, Bench M1041.1 top to be RAF2

Question 35:

Drawing A801, drawing shows Game Lines, please clarify what Game Lines is?

Answer 35:

Drawing A801, drawing shows Game Lines, Refer to 09 67 00 Sentence 2.5.4.4

Game lines refer to a different colour of EPFC intended to demarcate that area

Question 36:

Drawing A150, ceiling legend question, if EXP-PT indicated exposed ceiling to be painted? other area marked EXP with hatched, please clarify if it indicated exposed ceiling as well, if hatched exposed ceiling to receive painting finishes?

Answer 36:

Only exposed ceilings noted as EXP-PT are to receive paint.

Question 37:

Drawing A801 indicated area 1011 to receive drapery, and drawing 6/A162 shows drapery A and Drapery B, please clarify if to receive double layers of drapery?

Answer 37:

Yes, Room 1041 (Sensory Room) has two layers of drapery as indicated in detail 6/A162

Question 38:

Drawing A150 shows vestibule to receive C-MTL, please clarify what C-MTL is?

Answer 38:

Refer to A010 for Ceiling type assemblies. C-MTL is listed under Ceiling Types.

Question 39:

Addendum#1 -Question #5-Item#2-was not answer correctly. The question is do you require 90x190x390mm Architectural block below grade for Wall types WF10/WF10.1- Please answer Yes or No.

Answer 39:

Refer to Section details, specification, and assembly descriptions. As indicated, 190 high block to be used below grade, 90mm (half height) high block to be used at above grade locations – typical.

Question 40:

Scope of work: Fire Sprinkler System (21 12 01)

Clause 1.2.1.4, 1.2.1.4, 3.2.2.9 Underground Fire Main and Connections Fees. Typical our scope of work starts from a flanged outlet 1'-0" above the floor inside the building. I would approach the plumber or the civil contractor. Please confirm if this is acceptable.

Answer 40:

The water connection is outside of the building as stated and in co-ordination with the site services.

Question 41:

Scope of work: Fire Sprinkler System (21 12 01)

Clause 2.5 Pipe & Fittings. Please confirm if we can use for sprinkler piping Schedule 10 Black Steel Pipe with grooved fittings and couplings and Mechanical Tees

Answer 41:

Refer to Specifications 21 12 01 – 2.5 (3).

Question 42:

Section 32 37 00 2.8 Garden Shed and as per 1/L5.02 could you please confirm the dimensions of the structure as currently it is only providing the height?

Answer 42:

Storage shed is 2150 x 2150mm

Question 43:

As well, we wanted to confirm if you are needing any interior finishes, from insulation to flooring/ drywall etc. Please confirm?

Answer 43:

No interior shed finishes are required.

Question 44:

Would you please provide the detail of light duty and heavy duty asphalt paving?

Answer 44:

Light duty Asphalt paving specifications to be as per the geotechnical recommended pavement structure.

Question 45:

For the detail of bench A on 1 / L5.01, please confirm the number of reinforcing for 10M CONT. is 4 or 6. Thanks.

Answer 45:

Reinforcing to be 10M, @300mm C.C. & Ties 4-10m Cont.”

Question 46:

Re: Metal Lockers – 10 51 13

- 1) Specification 2.2.2.1 references a Locker Schedule which indicates sizes and types and cannot be found in the drawings, please advise.
- 2) There are no sizes of the lockers shown in the specification, please advise unless it is indicated in the schedule that is missing.

Answer 46:

The locker dimensions are provided in architectural addendum A-2.

Question 47:

Drawing 6/A162:

Question#1: the drawing noted drapery type A/drapery type B, please provide specifications.

Question#2: It seems the partition type PG2A is wrong labeled, the drywall partition should be recessed, and drywall bulkhead should be there, new locker can be placed in recessed area face to corridor?

Question#3: it shows WDV-MP panel on the top of corridor side, please clarify if all corridor wall to receive WDV-MP panel on top?

Answer 47:

- #1: Refer to specification section 11 61 43 for drapery, Type A and Type B to be separate colours to be selected from manufacturers full range.
- #2: in detail 6/A162 FG2 w/ acoustic insulation can be used at the lockers in lieu of PG2
- #3: Extent of WDV-MP panel is as per the interior elevations

Question 48:

Drawing 4/A162, it shows WDV-MP panel on the top of corridor side, please clarify if all corridor wall to receive WDV-MP panel on top?

Answer 48:

Extent of WDV-MP panel is as per the interior elevations

Question 49:

Drawing A150, regarding E-sports drapery, it shows on grid line 5, please provide detail drawing to show drapery length/height etc., if drapery to be mounted on bottom of roof deck?

Answer 49:

Drapery length to be 3840mm. Drapery height to be 2140 and be mounted at 3000mm AFF (ceiling height datum)

Question 50:

Drawing 5/A552:
Question#1, please provide details/specifications for the door/frame and hardware.
Question#2, what is the wall finishes at reception side? the drawing shows HSS and metal stud exposed?

Answer 50:

Door is a custom door and frame as detailed, door hardware as per Door hardware heading #1. Exposed HSS and metal is to be powder coated as per the detail

Question 51:

Drawing 12/A552, drawing shows AWP2 finishes, please clarify should IMP1A should be installed in front of AWP2?

Answer 51:

Drawing 12/A552, yes IMP1A should be installed in front of AWP2

Question 52:

Drawing A150, area 1003 to receive C-MTL ceiling, it noted ceiling height is varies? if C-MTL varies, please provide minimum height and ceiling slope

Answer 52:

C-MTL Ceiling height and angle to match exterior soffit height and angle.

Question 53:

Drawing A301, please provide drawings/specifications for FAL1 - Fixed Ladder and Cage.

Answer 53:

Drawing A301, Refer to Specification Section 05 51 00 Sentence 2.3.1

Question 54:

Does the cash allowance for hardware include the supply AND installation of the hardware, or is it only for the supply?

Answer 54:

Cash allowance is for the supply of the hardware.

Question 55:

Is the supply and installation of automatic door operators included in the cash allowance for Hardware?

Answer 55:

Cash allowance is for the supply of the door hardware.

Question 56:

Drawing A710, - Exterior Screen Frame Types Schedule, Description noted Horizontal Rails: SSG,
Please clarify what the horizontal rails is? and what is SSG?

Answer 56:

A horizontal rail is the horizontal member of a curtainwall assembly. Refer to 08 44 00 for more information on the Aluminum Framed Glazing systems. and the acronyms.

Question 57:

Drawing A720 - Glazing Printing Schedule, please clarify if Glazing Printing is required for this project? not shown on the drawings.

Answer 57:

Glazing Printing Scope is as noted on Glazing Printing Schedule to be read in conjunction with the other drawings and schedules i.e. Interior Screen Frame Schedule. For example Screen Sc1023 has Glazing printing FR3 noted in the schedule.

Question 58:

Drawing A801 - rooms1006/1008, please clarify if VG2 to be included in GC's scope, no VG2 specifications.

Answer 58:

Custom cut vinyl graphic to be included in Environmental Graphics Cash allowance

Question 59:

Drawing 1/A503, should Curved Plywood panel be extended to close grid line 4?

Answer 59:

Refer to A163 for full extent of curved plywood bulkheads

Question 60:

Drawing 2/A503, if DF1 & DFBF1 to be included in GC's scope? no specifications.

Answer 60:

Refer to mechanical documents for drinking fountain/Bottle filler station specifications.

Question 61:

Drawing A801, please provide transition line at floor finishes changes, for example, from PCF1 to EPFC2, from EPFC1 to EPFC2 , CPT1 to PCF1 etc., if any transition strips required?

Answer 61:

Transitions to be provided as noted on A800.

Question 62:

At the time of bid submission, are the bidders required to submit a bid bond?

Answer 62:

No, it is not required.

Question 63:

In the Electrical Drawing, pages E500-E511 are related to AV system. However there is an item for \$50K Audio/Visual. please clarify if this scope is part of cash allowance or has to be priced in base bid?

Answer 63:

AV equipment is to be supplied under Cash allowance and installed by the Electrical Contractor. Refer to section 01 21 00 in the specification for cash allowance.

Question 64:

In the architectural drawing, Pages A960, can be seen signage schedule. However there is an item for \$100K for signage. Please confirm if supply and installation of signage is part of cash allowances.

Answer 64:

Supply and installation of signage is part of Signage cash allowance.

Question 65:

please confirm CCTV is included in the cash allowances.

Answer 65:

Security equipment and devices is to be supplied under Cash allowance and installed by the Electrical Contractor.

Question 66:

Can you confirm supply and installation of hardware finishes is part of cash allowances and supply installation of door operators are included in this item as cash allowance.

Answer 66:

Supply of door hardware is carried under cash allowance, installation to be part of base bid.

Question 67:

please clarify who is responsible to pay hydro fee for primary wiring, primary transformer and hydro connection fee.

Answer 67:

Connection fee is to be paid by the Owner.

Question 68:

Please clarify who is responsible for all associated cost with site services from property line and tie to the city services including road inclosure permit, road restoration, etc.

Answer 68:

All associated cost with site services within property line and tie to the city services including any required road enclosure permit, road restoration to be in base bid. Service ties are by owner. Encroachment permits and road restoration permits are by contractor.

Question 69:

Please confirm there is no contaminated soil in this project.

Answer 69:

Refer to Geotechnical report, Hydrogeological Report, and Phase 1 and 2 Environmental Assessment documents for project soil conditions.

Question 70:

please confirm all the rough in for the security is part of the cash allowances or it is to be included in base bid?

Answer 70:

Security equipment and devices is to be supplied under Cash allowance and installed by the Electrical Contractor.

Question 71:

Does this project require builder risk insurance?

Answer 71:

Refer to the Bid document page #113.

Question 72:

Please clarify if there is any mandatory or preferred trade in this project?

Answer 72:

None.

Question 73:

In architectural drawing page A008, grey area (not in contract. Not in scope) has shown fences and light pole and benches to be removed. please clarify the items in the grey area have to be removed or not in scope.

Answer 73:

Anything in the Grey area on A008 noted as “not in contract, not in scope” is not in the project demolition scope.

Question 74:

Please clarify the below note that mentioned on drawing E500 to E510 :
1. 'By others' WHEREVER APPEARING ON THE DRAWING MEANS THAT EQUIPMENT/DEVICE/POWER/DATA OUTLET SHALL BE PROVIDED BY ELECTRICAL CONTRACOTR.

Answer 74:

'By others' WHEREVER APPEARING ON THE DRAWING MEANS THAT EQUIPMENT/DEVICE/POWER/DATA OUTLET SHALL BE PROVIDED BY ELECTRICAL CONTRACOTR. Means that wherever you see the note 'By Others' that specific equipment, device, power, or data outlet shall be provided by the electrical contractor.

Question 75:

Please specify the scope of the work for Environmental graphics that is shown under cash allowances.

Answer 75:

”custom graphics to be later finalized by consultant”, and “VG2 Custom Dye Cut Vinyl Graphic” should be carried in Environmental graphics cash allowance.

Question 76:

is there any union requirement?

Answer 76:

No.

Question 77:

Please confirm supply and installation of ALL the kitchen equipment are under cash allowances, since in specs all the models and manufacturers are indicated.

Answer 77:

Supply of the Kitchen equipment to be included in cash allowance, installation is part of base bid.

Question 78:

Please confirm if there is any scope of work for natural gas included in this project.

Answer 78:

Natural gas scope is as per the mechanical documents.

Question 79:

Please advise if there is any fire pump scope of work in this project.

Answer 79:

The sprinkler system for the Project is a Design Built System to suit street water flow. No generator is provided for the Project.

Question 80:

Please clarify PA system is part of cash allowances or is part of base bid?

Answer 80:

PA system is part of the base bid.

Question 81:

The lighting manufacturer is asking for the lengths of the type L6

Answer 81:

Question 82:

Please confirm if the east wall for Circulation (1013) has back-painted glass (GLBP2), it is shown on the room finish schedule (A801) but does not appear on elevation 3/A501.

Answer 82:

The east wall of Corridor 1013 does not have GLBP2.

Question 83:

Can you confirm if the -dropoff area- as shown in the below drawing is concrete paving or asphalt? The Grading Plan does not call it out, however the landscape drawings state it is concrete paving. Please confirm.

Answer 83:

Dropoff area to be concrete paving.

Question 84:

Can you clarify if the extents of the new asphalt and the resurfacing will be as per what is shown on the Grading Plan? The Landscaping Drawing L2.00 shows an area of asphalt to be resurfaced that is different than what is shown in the grading plan G1.

Answer 84:

Extend of new asphalt to be as per Landscape drawings.

Question 85:

In the Arch Site Plan A001, can you clarify what the diagonal hatch pattern refers to? It is not shown on the legend. Also Can you confirm if there will be any work on the existing fire truck route? The name changes (highlighted) from -Existing Fire Truck Route- to - Fire Truck Route (At Century Garden Recreation Centre)- and its unclear if that indicates any new work on the fire truck route.

Answer 85:

Diagonal hatch pattern denotes the Fire truck route. Refer to civil and landscape documents for any changes to the parking lot surfaces.

Question 86:

Please can you clarify as per following.

1. As per dwg E201, there is one L3A fixture in Rm1020, which is not included in the lighting schedule. Please clarify

2. Please confirm if hydro fees will be paid by owner.

Answer 86:

1. L3A shall be as follow:

Luminaire type L3A: 120V, 8' long, surface mounted, led luminaire, 62w, 6800 lumens., 3000k, 0-10v dimming driver.

CREE Lighting# LS8-80L-930-R-UL-10V-120V

Lumenpulse, Fluxwerx, Eralux

2. Hydro fees are to be paid by owner.

Question 87:

Section 2/A316 and 1/A316 mention a concrete block foundation wall, but in sections 1/S401 and 9/S500 (detailing games room 1003), it seems to indicate a concrete foundation wall instead. Could you kindly provide clarification on this matter?

Answer 87:

Foundation wall to be as per structural drawings.

Question 88:

1.) Specification Section 04 21 00 -specify BV3 size as Imperial Modular while Drawing A210 -Brick Coursing shows Imperial Norman size, please advise which size will govern?

Answer 88:

Drawings of brick coursing will govern.

Question 89:

Drapery Question: The specified fabrics are not recommended for drapery application as the fiber content does not allow them to be FR treated to meet the required fire codes. please advise.

Answer 89:

Fabric to meet Canadian Government Specifications Board (Vertical Test) CAN/ULC S109-14 and CAN/CGSB 4.2 No. 27.1-94(R2011)

Question 90:

For Glu Laminate Wood & CLT Plywood

The Wood Species Specified as Douglas Fir does not match the structural strength grades given. Please confirm if the design is intended to be Douglas Fir or SPF.

If Douglas fir is the intent, will they allow SPF as an alternate ?

noticed that specified species (Douglas fir) has properties of SPF (12c-e, 20f-e and V2 grade).

Should I go with SPF or Douglas fir?

Answer 90:

The intent is to use Douglas Fir. The stress grades noted are minimum values. The D. Fir Glulam and CLT will meet or exceed these requirements.

The city does not accept alternates during the bid period

Question 91:

The specified fabrics are not recommended for drapery application as the fiber content does not allow them to be FR treated to meet the required fire codes.

Answer 91:

Fabric to meet Canadian Government Specifications Board (Vertical Test) CAN/ULC S109-14 and CAN/CGSB 4.2 No. 27.1-94(R2011)

Question 92:

Specification Section 11 61 43

The specified fabrics Maharam Gemma Multi 466569-152 and Maharam Gemma, 466568-049 are not recommended for drapery application as the fiber content does not allow them to be FR treated to meet the required fire codes as per CAN/ULC S109.

Please confirm?

Answer 92:

Fabric to meet Canadian Government Specifications Board (Vertical Test) CAN/ULC S109-14 and CAN/CGSB 4.2 No. 27.1-94(R2011)

Question 93:

Drapery Question:

The fabrics specified are the Gemma 466568-049 and Gemma Multi 466569-152. The FR treatment needs to be NFPA 701 or CAN ULC S109. please advise.

Answer 93:

Fabric to meet Canadian Government Specifications Board (Vertical Test) CAN/ULC S109-14 and CAN/CGSB 4.2 No. 27.1-94(R2011)

Question 94:

For the roof type system R1/R2 especially insulation (200mm INS-51 & 50mm INS-52) and how to install e.g. Soprarock DD plus must be mechanically fastened, adhered with hot bitumen or adhered with Duotack adhesive, could you double confirm the roof type information to further proceed?

Answer 94:

Multiple insulation types are provided for INS-52. Installation to be in conformance with manufacturer's requirements.

Question 95:

Please confirm if the east wall for Circulation (1013) has back-painted glass (GLBP2), it is shown on the room finish schedule (A801) but does not appear on elevation 3/A501.

Answer 95:

The east wall of Corridor 1013 does not have GLBP2.

Question 96:

As per Geotech Report 6.3, 6.4 & 6.7.3

The subsurface soils at the borehole locations (BH/MW3 to BH4) consisted of surficial topsoil (about 75 mm) and fill soils (silty sand, sandy silt, silty clay) up to a depth of about 1.5 m below existing grade, which was underlain by native hard silty clay till and very dense sandy silt to sand and silt till. For construction of the amenities, site preparation should be carried out as discussed in Section 6.1

According to Geotechnical report 6.1

Soil containing excessive organic / deleterious matters, where encountered, should be sub-excavated to expose the inorganic competent subgrade.

Could you please confirm if we have to remove all soil consisting rootlets below proposed SOG and Pavement area?

Answer 96:

Soil containing excessive organic / deleterious matters, where encountered, should be sub-excavated to expose the inorganic competent subgrade as described in the Geotechnical report. Extent determined by interpretation of the structural and civil documents to determine the extent of excavation required on the project.

Question 97:

For Sprinkler System Section 21 12 01 2.5.2 Unburied mains and sprinkler piping: standard black steel Schedule #40 (ASTM #A53) with black cast iron 1207 kPa WWP screwed or flanged fittings, U.L.C. approved.

However Section 2.5.3 Where approved by Consultant and local authority and Underwriter, Schedule 10 pipe and factory fabricated welded assemblies using ANSI

#B16.9 factory made fittings may be used. Could you please confirm if we can use Schedule 10 pipe?

Answer 97:

Requests of alternates will not be accepted during the bid period.

Question 98:

Please confirm if the east wall for Circulation (1013) has back-painted glass (GLBP2), it is shown on the room finish schedule (A801) but does not appear on elevation 3/A501.

Answer 98:

The east wall of Corridor 1013 does not have GLBP2.

Question 99:

1.) Can you confirm if the dropoff area as shown in the below drawing is concrete paving or asphalt? The Grading Plan does not call it out, however the landscape drawings state it is concrete paving. Please confirm.

2.) Can you confirm if there will be any work on the existing fire truck route pictured below? The name changes (highlighted) from Existing Fire Truck Route to Fire Truck Route and its unclear if that indicates any new work on the fire truck route.

3.) Can you clarify if the extents of the new asphalt and the resurfacing will be as per what is shown on the Grading Plan? The Landscaping Drawing shows an area of asphalt to be resurfaced that is different than what is shown in the grading plan.

4.) In the Arch Site Plan, can you clarify what the diagonal hatch pattern refers to? It is not shown on the legend.

Answer 99:

- 1) Dropoff area to be concrete paving
- 2) Refer to civil and landscape documents for any changes to the parking lot surfaces
- 3) Extend of new asphalt to be as per Landscape drawings
- 4) Diagonal hatch pattern denotes the Fire truck route.

Question 100:

As I was looking for the sprinkler work for this project. I found that in the sprinkler drawing M-301 no pipe sizes are mentioned. It would be great if you can provide drawing mentioned with the pipe sizes and also the pipe measurements which we are going to use for the fabrication work of the pipes to quote this job.

Answer 100:

Question 101:

Please confirm the interior glass partition frame material.

Section 08 42 26 of the specifications shows CR Laurence u-channel Frameless design and details G,F,W / A800 show glass shoe. But on both the door schedule A700 and screen schedule A702 note the frame as wood.

Answer 101:

Refer to schedules provided on A720 INTEROR SCREEN SCHEDULE for interior screen types. Three types are noted: SF1 solid wood frames, SF2 solid wood frames, and SF3 Solid wood perimeter frame, CW5 Aluminum frame. The CR Laurence U channel glass shoe is not in use.

Question 102:

Corner guards are specified as CG-1 with the dimensions 150mm x 150mm x 1500mm, while on the drawings we can locate WG-1 and WG-2 as full-height corner guards. Please advise on the specifications for the corner guards.

Answer 102:

Corner guards to be as per drawings and details for WG-1 & WG-2, CG-1 is not in use.

Question 103:

- Would you please confirm whether is it a Vertical Configuration Water source Heat Pump (HP-03) or a Vertical stack Heat Pump?
- Please advise if you want us to supply and install the rainwater harvesting pipe line 1.5 meter outside the building (between gridline 5 and F) from where the lawn irrigation equipment supplier will continue the piping to connect to the equipment or you want us to valve and cap the rainwater harvesting pipe line within 10 feet of the inside rain water harvesting unit (between gridline 4 and between A-B)
- Please confirm if you want mechanical contractor to do the rain water harvesting and make up water piping from the Outside Cistern to inside the building as shown on site plan 1 drawing on Drawing M-100 or the civil contractor will do that?

Answer 103:

HP-03 is a vertical water source heat pump unit and other heat pumps are vertical stack water source heat pumps

All work associated with the rain water harvesting is part of the mechanical work as shown on Dwg. M-100, and Specification Section 22 13 50. It is NOT part of Civil or Irrigation system.

The Rain Water Harvesting (Rain Water Retention) shall connect to irrigation line at 1.5meter outside of the building (column line 5/F) as shown on the drawing.

Question 104:

1.Please confirm the LDC required Connection Impact Assessment (CIA) process has been completed by the Owner and Engineer or to be completed by the PV contractor?

2.Does detail 2 on PV-202 include all required LDC equipment?

Answer 104:

The CIA application has yet to be completed due to a hydro service account not yet established for the site (i.e. new building/service). The CIA will be completed by the PV engineer (ZEI) once there is an account to link the project to.

Detail #2 on PV-202 is a grounding and bonding detail for the PV system. No LDC specific equipment is required for this project (i.e. SCADA) due to the nameplate capacity being <100kW.

Question 105:

Please clarify where the concrete leveller (CEM-U1) is required.

Answer 105:

Refer to 03 53 00: 1.1. Summary, Sentence 1.1.1

Question 106:

- The specification section 23 81 40 states the Basis of design for the heat pump is Florida Heat Pumps, while the drawing M-205 mentions the basis of design for the heat pumps is Trane. Please clarify what is the exact basis of design for the Heat pumps HP-01 to HP-12.

Answer 106:

Trane to be used for the basis of design.

Question 107:

With regards to the existing building on the civil drawing it notes the demolition is done by other, but drawing A008 includes it in the removals. Please advise who is responsible for the demolition of the existing building

Answer 107:

Demolition of the existing building and structures is in this project scope as per A008

Question 108:

With reference to Specification Sections 32 17 23 Traffic Markings and Section 32 17 24 Thermoplastic Pavement Markings, which specification section applies to the traffic markings indicated on drawing L2.00?

Answer 108:

Refer to note 6 on L2.00. "LINE PAINTING SPECIFICATIONS AND PAVEMENT MARKINGS SHALL BE PROVIDED PER ONTARIO TRAFFICE MANUAL BOOK 11 AND MTOD 1001.070

Question 109:

Please provide a spec for Polyethylene pipe, strait and loop

Answer 109:

More specifics are required to answer this question, which pipe? What specification section/drawing?

Question 110:

I would like to request specs on new pad mounted transformer foundation on sheet E400 . Addendum 2 has no mention of it.

Answer 110:

Refer to enclosed PDF "Two Piece Precast Foundation".

Question 111:

Please locate the Thermoplastic Pavement Markings in the drawing since there is no tag on the architectural drawings with this name. All the paintings are thermoplastic or its partial?

Answer 111:

Refer to note 6 on L2.00. "LINE PAINTING SPECIFICATIONS AND PAVEMENT MARKINGS SHALL BE PROVIDED PER ONTARIO TRAFFICE MANUAL BOOK 11 AND MTOD 1001.070

Question 112:

- No Make and Model number is provided for the DHW Heater on specification section 22 30 00. Please provide the make and model number for the DHW Heater.
- The plumbing fixtures specification mentions for the (S-2) Art room sink. However, no S-2 tag for that sink has found on the mechanical drawing set. Please clarify if the S-2

sink is required in any part of the building or not?

- The plumbing fixtures specification mentions for the bottle filter (BF) while the drawing tags something D.F. on drawing M-101. Please confirm the tag D.F. is the specification tag BF.

Answer 112:

- DHW Heater: It can be AO Smith Model DEN 52
- (S-2) Art room sink is located in Artist -1025 as shown on 4 of Drawing A902, services for the sink shall be from the mains in corridor.
- D.F. and BF. It is the same unit, and was corrected in the Addendum MA-1.

Question 113:

Soffit S-MLT and S-10 (as per A010 Assembly - 3mm Alum panel, as per Spec - 4mm ACM panels)?

Answer 113:

Soffit panels to be as per the specification.

Question 114:

Drawing E101 Note:10 What location is the pylon sign?

Answer 114:

Pylon sign location is TBD. It is to be a contingency allowance item should it be required.

Question 115:

Drawing L2 features a call-out mentioning the use of -CIP Concrete Paving — 50% Coloured- for the basketball area. Please confirm if there is still a desire to use coloured concrete. If so, please specify the colour to be used and the extent of the coloured area?

Answer 115:

Yes, there will be coloured concrete – colour to be later selected by consultant. Extend of coloured concrete is 50% of CIP concrete paving in basketball area – as noted.

Question 116:

Drawing L2 shows the highlighted area below as being 'Heavy Duty' and 'Light Duty' paving areas, while Drawing G1 shows this area as being 'resurfaced' as heavy duty for truck access - please confirm the extent of the asphalt removal and reinstatement in this highlighted area.

Answer 116:

The areas are as per the drawings and will be pre-marked with the successful vendor prior to Asphalt being undertaken. Refer to Civil and Landscape drawings for additional. All work in accordance with OPSS specification.

Question 117:

Drawing L2 features a call-out mentioning the use of 'CIP Concrete Paving - 50% Coloured' for the basketball area. Please confirm if there is still a desire to use coloured concrete. If so, please specify the colour to be used and the extent of the coloured area.

Answer 117:

Concrete is to be colored. Areas are as per the Landscape and Civil drawings. Contractor to provide for Mock-up prior to pouring. All concrete is to be as per OPSS specification.

Question 118:

The geotechnical report includes a single minimum pavement structure — please confirm if this pavement structure is to be used for both heavy duty and light duty sections.

Answer 118:

- For the Area shown as Heavy Duty the contractor is to provide for full depth removal and reinstatement of the following profile:
 - o 40mm HL3 top coat
 - o 85mm HL8
 - o 150mm Granular 'A'
 - o 450mm Granular 'B'
- For the Area shown as Light Duty the contractor is to provide for full depth removal and reinstatement of the following profile:
 - o 40mm HL3
 - o 65mm HL8
 - o 150mm of Granular 'A'
 - o 300mm of Granular 'B'
- Resurfacing to be 40mm
- Rebuild Catch basins as required to OPSS Specification
- All work in accordance with OPSS specifications in coordination with the drawings and Specs.

Question 119:

Please confirm the depth of the resurfacing of the hatched area below from Drawing G1.

Answer 119:

40mm and to be completed as per OPSS specifications.

Question 120:

Please clarify if GC has to carry cost for LEED consultation or it will be by owner, and GC will only take care of the paperwork.

Answer 120:

The consultant is carried by the owner.

All other terms & conditions remain unchanged.

If you have any questions, please do not hesitate to contact the undersigned.

Bidders are required to acknowledge all Addenda.

Colin Zeng
Senior Buyer
Ph: (905) 874-2280
Email: colin.zeng@brampton.ca

Addendum 3

1. GENERAL

- .1 This Addendum shall be attached to the front of the specifications and shall be brought to the attention of all concerned.
- .2 This Addendum shall form an integral part and shall be read in conjunction with Specifications and Drawings for the Century Gardens Community Youth Hub. This Addendum shall take precedence over all requirements to the aforementioned specifications with which it may prove to be at variance.
- .3 Receipt of this Addendum shall be acknowledged on the Bid Form. Failure to do so may subject the Proponent to disqualification
- .4 This Addendum Contains:
 - .1 Architectural Addendum A-03, Dated March 1, 2024. 1 page
 - .2 Mechanical Addendum MA-2, Dated February 29, 2024. 3 Pages
 - .3 Electrical Addendum EA-2, Dated February 29, 2024. 14 Pages – Includes: 11 full size sheets (E100, E201, E301, E500, E501, E502, E503, E504, E505, E508, E703)

ADDENDUM A-03

1. ARCHITECTURAL REVISIONS AND CLARIFICATIONS

. 1 Architectural Specifications

Section 08 71 01 Hardware Schedule

.1 **Revise** Heading #1 to "1 Elevation ~~D-1000-01~~ D-1000-04, CIRCULATION 1013 From RECEPTION "

Section 11 61 43 Drapery Curtains and Track

.1 **Revise** paragraph 2.2.2.2 to include "Height:2140 mm"

END OF ADDENDUM A-03

**ELECTRICAL ADDENDUM EA-2
CENTURY GARDENS COMMUNITY YOUTH HUB
342 VODDEN STREET EAST
BRAMPTON, ON
PROJECT NO.: 2205
FEBRUARY 29, 2023**

The following document is hereby made a part of the Contract Documents.

The following revisions and/or additions shall be made to Drawings and/or specifications and the cost shall be included in Tender Price.

GENERAL

1. The A/V System (including PA System) shall be installed by the Electrical Contractor, including all raceway, conduit, power, etc. required for the systems. Supply of A/V devices/equipment shall be under cash allowance.

REVISION TO SPECIFICATIONS

SECTION 26 05 00 - BASIC MATERIALS & METHODS

2.13 – Dry Type Transformers

1. Add new Subsection 2.13 – Dry Type Transformers as follows:

“2.13 DRY TYPE TRANSFORMERS

- .1 Dry-type transformers shall be three-phase indoor dry-type, 60 cycle type ANS, natural draft, air-cooled, manufactured in accordance with CEMA Specification L2, CSA C22.2 No. 47, CSA C9-1966, ASA C57.12, NEMA TRI, and latest revision thereof. They shall be metal enclosed in ventilated code gauge steel enclosures, finished ASA No. 61. Overall dimensions of transformers shall not exceed those noted on the drawings.
- .2 Windings for three phase transformers shall be copper 1.2 KV class, 10 KV B.I.L., high voltage winding delta-connected 600 volt; low voltage winding 208/120 & 220/120 volt wye connected. Primary winding shall include four 2-1/2 percent taps arranged two above and two below, normal voltage. Insulation to be rated Class B - 80 deg. C. Unit design shall incorporate a vibration isolation system.
- .3 Transformers shall have an electrostatic shield located between the primary and secondary windings. Terminate the shield at an isolated terminal in the terminal connection area.
- .4 Transformer shall be high-efficiency type, meeting maximum loss limits specified in CSA C802-94.
- .5 Transformers shall be manufactured by:
 - .1 Rex Manufacturing
 - .2 Square ‘D’
 - .3 Hammond Manufacturing
 - .4 Delta
 - .5 or approved”

SECTION 26 09 23 – DIGITAL METERING

1.1 – General

1. Revise Paragraph .1 to read as follows:

“All Division 26 general and specific requirements apply to all electrical bidders, as do the requirements of this subsection, utilities submetering system. Division 26 must purchase/supply/install all utilities submetering system equipment. Purchase/supply and installation of mechanical meters (water, natural gas, BTUs, fluid, etc.) to be provided by Division 21, 23 and 25 mechanical bidders as a supplement to the electrical install price for the submetering system. The design criteria for the Digital Metering System is based on the CARMA Metering Manager System as manufactured by CARMA CORP. The Contractor shall be responsible for all costs associated for proceeding with an acceptable alternate manufacturer as listed in this specification for a fully operational system.”

1.6 - Work and Materials Included by Carma Corp. – The Meter Manager™ System Supplier

1. Revise title of Subsection 1.6 to read as follows: “Utilities System Components Provided by Electrical Contractor (Carma Corp. – The Meter Manager™ System Supplier)”.

SECTION 27 54 00 – ASSISTED LISTENING SYSTEM

1. Delete Section 27 54 00 – Assisted Listening System in its entirety.

SECTION 28 23 00 – SECURITY SYSTEMS

1.1 – General

1. Revise Paragraph .1 to read as follows:

.1 General: Provide a complete rough-in conduits, backboxes, pull wires and power provisions for CCTV, Intrusion alarm, Door Access, etc. Refer to the attachment appendix A (City of Brampton’s Security Equipment Design Standards and Equipment Specifications for New Construction and Facility Refreshment Guidelines - total of 205 pages) for more information regarding the rough-ins & power provisions requirements and comply accordingly.

Appendix A

1. Appendix A is included in the tender documents for reference purpose only since all the security equipment and devices will be carried in the cash allowances.

REVISION TO DRAWINGS

DRAWING E100

1. Revise Luminaire Schedule as per attached Drawing E100.

DRAWING E201

1. Revise Lighting Layout as per attached Drawing E201.

DRAWING E301

1. Revise Power & Systems Layout as per attached Drawing E301.

DRAWING E703

1. Revise Lighting Control as per attached Drawing E703.

DRAWINGS E500 TO E505 & E508

1. Revise AV System Drawings as per attached Drawings E500 to E505 and E508.

END

LEGEND

- LED LIGHT FIXTURE FIXTURE - LETTER DENOTES TYPE
- LUMINAIRE ON NIGHT LIGHT
- LED CEILING MOUNTED DOWNLIGHT FIXTURE - LETTER DENOTES TYPE
- LED WALL FIXTURE - LETTER DENOTES TYPE
- EXIT LIGHT FIXTURE WALL OR CEILING MOUNTED, PHOTOGRAPHIC TYPE, SUITABLE FOR 120V, AC & 24V DC INPUT - REFER TO SPECIFICATIONS FOR MORE INFORMATION
- EMERGENCY LIGHTING TYPE 1 (SINGLE HEAD) & TYPE 2 (DOUBLE HEADS), LED, 24V, 7W PER HEAD, BACHELL# EIM-4MR-LED-7W/HEAD-24V OR APPROVED EQUAL
- EMERGENCY BATTERY UNIT 24V, 720W, 120V INPUT VOLTAGE, BACHELL# NWA-NV-24-720-120V OR APPROVED EQUAL
- LIGHT STANDARD
- STANDARD 15A 120V 1P DUPLEX RECEPTACLE
- STANDARD DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- STANDARD 15A DUPLEX RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT
- STANDARD GROUND DUPLEX RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT MOUNTED ABOVE COUNTER
- LS-300 RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT FOR FEEDING POWER TO UPS OF I.T. RACK
- STANDARD DUPLEX RECEPTACLE WITH WEATHERPROOF ENCLOSURE
- G.F.I. T-SLOT, WEATHERPROOF DUPLEX RECEPTACLE
- G.F.I. DUPLEX RECEPTACLE
- G.F.I. DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- T-SLOT SERVICE RECEPTACLE ON 20A CIRCUIT
- STANDARD 15A 120V 1P QUAD RECEPTACLE
- STANDARD 20A 120V 1P, T-SLOT QUAD RECEPTACLE
- STANDARD 15A QUAD RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT
- STANDARD 20A, T-SLOT QUAD RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT
- TAMPER RESISTANT USB CHARGER DUPLEX RECEPTACLE, 120V, 15A, 2-POLE, 3W, 5-15R (HUBBELL) USB 15X2 OR ATOM HART (COOPER) TR745
- STANDARD 20A, SPLIT TYPE T-RECEPTACLE FED FROM TWO DIFFERENT CIRCUITS
- SPECIAL OUTLET AS NOTED
- 250V, 3-POLE, 50A RECEPTACLE COMPATIBLE FOR THE RESPECTIVE DEVICE/APPLIANCE
- 250V, 3-POLE, 30A RECEPTACLE COMPATIBLE FOR THE RESPECTIVE DEVICE/APPLIANCE
- 250V, 3-POLE, 20A RECEPTACLE COMPATIBLE FOR THE RESPECTIVE DEVICE/APPLIANCE
- SINGLE POLE LIGHT SWITCH UNLESS NOTED OTHERWISE
- CRESTRON LOW VOLTAGE DIGITAL LIGHT SWITCH (ROCKER)
- CRESTRON LV DIGITAL LIGHT SWITCH WITH "X" NUMBER OF BUTTONS (TYP.)
- CRESTRON TSW-570P 5" LIGHTING CONTROL PORTRAIT TOUCHSCREEN
- ELECTRIC HEATING UNIT, NO. DENOTES TYPE
- PANELBOARD
- MOTOR STARTER, LETTER F DENOTES FLUSH MTD, P= PILOT LIGHT, S= SURFACE MTD. EF-3 = EQUIPMENT CONTROLLED BY STARTER
- DISCONNECT SWITCH - WP DENOTES WEATHERPROOF
- COMBINATION MOTOR STARTER AND DISCONNECT
- MOTOR OUTLET AS NOTED
- MOTOR & DISCONNECT SWITCH TO SUIT
- SURFACE MOUNTED SPEAKER C/W WIRE GUARD
- MICROPHONE FOR LOCAL SOUND SYSTEM
- AV SPEAKER C/W 1-21MM CONDUIT TO AV ROOM
- LOCAL SOUND SPEAKER
- INTEGRATED P.A. TELEPHONE ADMINISTRATION MASTER CONSOLE. REFER SCHEMATIC DIAGRAM FOR ROUGH-IN & WIRING DETAILS
- DIGITAL CLOCK TO BE CONNECTED TO CENTRAL CLOCK SYSTEM
- DOOR OPERATOR PUSH BUTTON UNLESS SPECIFIED OTHERWISE
- KEYED SWITCH TO OPEN WASHROOM DOOR IN CASE OF EMERGENCY
- KIRK-KEY INTERLOCK
- SUSPENDED PEERLESS CEILING PLATE FOR PROJECTOR
- EMERGENCY PUSH BUTTON (CAMDEN 5/8" MUSHROOM, STAINLESS STEEL FACEPLATE, PUSH/PULL, "PRESS FOR ASSISTANCE" - CM-450R/12) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WC10). THE EMERGENCY PUSH BUTTON SHALL BE MOUNTED ON A SINGLE GANG BOX. REFER FLOOR PLAN DWGS. FOR MORE INFORMATION
- SINGLE GANG LED ANNUNCIATOR C/W SOUNDER, "ASSISTANCE REQUESTED" (CAMDEN: CM-AF510S) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WC10). REFER FLOOR PLAN DWGS. FOR MORE INFORMATION
- SINGLE GANG DOME LIGHT WITH SOUNDER, "ASSISTANCE REQUIRED" (CAMDEN: CM-AF140S) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WC10). REFER FLOOR PLAN DWGS. FOR MORE INFORMATION
- INDICATION LIGHT (ABOVE DOOR OF WASHROOM) PROVIDED BY DOOR HARDWARE SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR
- CRESTRON ZUMLINK-DT-QUATRO-DLS OCCUPANCY/VACANCY/DAYLIGHT SENSOR, DUAL TECH CEILING MOUNT C/W LOAD CONTROLLER(S) AS REQUIRED OR APPROVED EQUIVALENT
- CRESTRON GLA-DT-CM-COM1-24 OCCUPANCY/VACANCY SENSOR, DUAL TECH WALL CORNER MOUNT C/W ROOM CONTROLLER(S) AS REQUIRED OR APPROVED EQUIVALENT
- CRESTRON GLA-DT-WLS-1 LINE VOLTAGE, SINGLE RELAY DUAL TECH OCCUPANCY SENSOR SWITCH OR APPROVED EQUIVALENT
- CRESTRON GLA-DT-WLS-DM LINE VOLTAGE, SINGLE RELAY DUAL TECH OCCUPANCY SENSOR SWITCH C/W 0-10V DIMMING CIRCUIT OR APPROVED EQUIVALENT
- CRESTRON ZUMLINK-IR-QUATRO-DLS OCCUPANCY/VACANCY SENSOR, PIR CEILING MOUNT, C/W LOAD CONTROLLER(S) AS REQUIRED OR APPROVED EQUIVALENT
- CRESTRON GLA-LDL-PC-0-10 DUAL LOOP DAYLIGHT SENSOR OR APPROVED EQUIVALENT
- CRESTRON GLA-LOCT EXTERIOR CCT/PHOTOCELL SENSOR C/W INTEGRAL SNOW MELT OR APPROVED EQUIVALENT
- CRESTRON GLS-PART-ON PARTITION SENSOR OR APPROVED EQUIVALENT
- WALL MOUNTED (RECESSED MOUNTED) JUNCTION BOX (WHICH CONNECTION) FOR FEEDING POWER TO SYSTEM FURNITURE. CO-ORDINATE ON SITE & WITH SYSTEM SUPPLIER FOR EXACT LOCATION OF THE JUNCTION BOX. PROVIDE LABEL ON THE JUNCTION BOX INDICATING THE CCT# PANEL FEEDING THE CIRCUITS
- WALL MOUNTED (RECESSED MOUNTED) JUNCTION BOX C/W 27MM CONDUIT UP TO ACCESSIBLE CEILING SPACE AS A COMMUNICATION RACKWAY FOR SYSTEM FURNITURE. CO-ORDINATE ON SITE & WITH SYSTEM SUPPLIER FOR EXACT LOCATION OF THE JUNCTION BOX
- Panic Button C/W 1-19MM CONDUIT TO ELECTRICAL ROOM
- P.A. SPEAKER CEILING MOUNTED, (RECESSED IN T-BAR & DRYWALL CEILINGS, SURFACE MOUNTED IN EXPOSED CEILINGS)
- INTEGRATED P.A. TELEPHONE ADMINISTRATION MASTER CONSOLE. REFER SCHEMATIC DIAGRAM FOR ROUGH-IN & WIRING DETAILS

LEGEND (CONTD.)

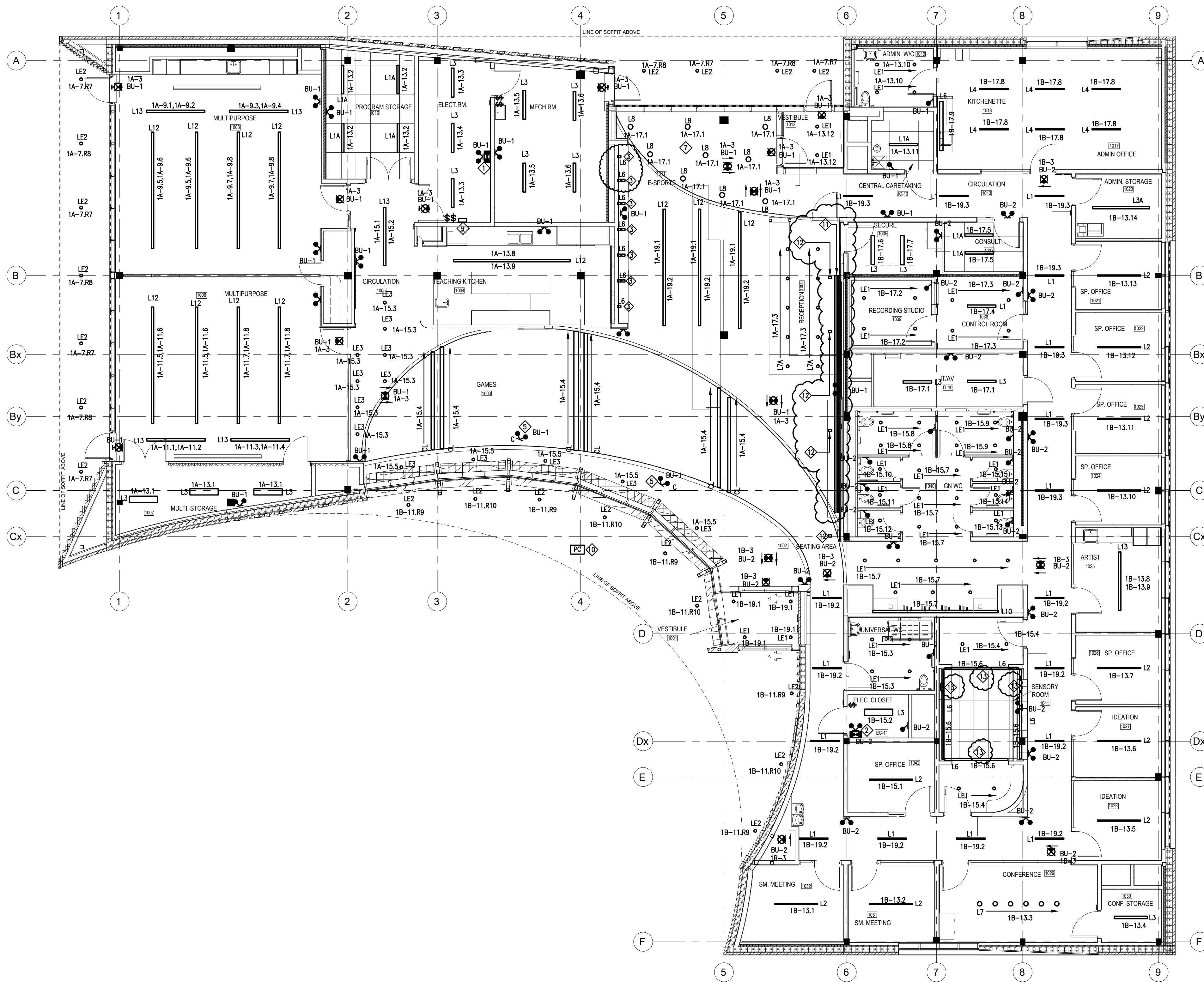
- CRESTRON GLA-DT-QUATRO-COM1-24 OCCUPANCY/VACANCY SENSOR, DUAL TECH CEILING MOUNT, C/W ROOM RELAY PACK AS REQUIRED
- CRESTRON GLA-LDL-PC-0-10 DUAL LOOP DAYLIGHT SENSOR
- ASSISTIVE LISTENING SYSTEM: WILLIAM SOUND T35, MOUNT IN A LOCKABLE RECESSED BOX AT ACCESSIBLE HEIGHT. VERIFY EXACT LOCATION AT SITE. PROVIDE 21mm CONDUITS FROM THE RECESSED BOX TO THE MIC OF THE SYSTEM AND UPTO ANTENNA MOUNT ANTENNA AT HEIGHT AS RECOMMENDED BY THE MANUFACTURER/SUPPLIER
- MIC & JACK OF ASSISTIVE LISTENING SYSTEM
- RECESSED FLOOR BOX, WIREMOLD, RFP-SS SERIES C/W COVER (COVER TO MATCH TYPE OF FLOOR) & DEVICES AS INDICATED ON FLOOR PLANS
- WIRELESS ACCESS POINT
- FIRE ALARM MANUAL STATION C/W PLASTIC COVER WITH LOCAL HORN - LETTERS W# DENOTES WIREGUARD
- AUTOMATIC FIRE DETECTOR RATE OF RISE 135 DEG. F. UNLESS NOTED OTHERWISE - NUMBER DENOTES ZONE, LETTER G DENOTES GUARD
- AUTOMATIC FIRE DETECTOR - FIXED TEMPERATURE AS NOTED
- PHOTO ELECTRIC SMOKE DETECTOR
- ALARM DUCT TYPE SMOKE DETECTOR
- END-OF-LINE RESISTOR
- FIRE ALARM HORN, "S" DENOTES C/W STROBE LIGHT
- FIRE ALARM BELL
- FIRE ALARM STROBE
- WEATHERPROOF FIRE ALARM STROBE FOR EXTERIOR APPLICATION, MIRMOR# FS-400-RR-WP-110FC OR APPROVED EQUIVALENT
- FLOW SWITCH-SPRINKLER SYSTEM
- MONITOR SWITCH-SPRINKLER SYSTEM
- DATA OUTLET (DOUBLE GANG BACKBOX) - C/W 41mm EMT CONDUIT TO NEAREST CABLE TRAY
- DATA OUTLET (SINGLE GANG BACKBOX) - C/W 21mm EMT CONDUIT TO NEAREST CABLE TRAY
- DATA OUTLET (SINGLE GANG BACKBOX) MOUNTED ABOVE COUNTER - C/W 21mm CONDUIT TO NEAREST CABLE TRAY
- DOOR ELECTRIC STRIKE
- SECURITY KEY PAD C/W 19MM CONDUIT TO SECURITY PANEL VIA A JUNCTION BOX LOCATED IN NEAREST ACCESSIBLE CEILING SPACE
- SECURITY SYSTEM - MOTION SENSOR C/W 19MM CONDUIT UPTO SECURITY PANEL VIA A JUNCTION BOX LOCATED IN NEAREST ACCESSIBLE CEILING SPACE
- DOOR CONTACT-SECURITY SYSTEM C/W 19MM CONDUIT UPTO SECURITY PANEL VIA A JUNCTION BOX LOCATED IN NEAREST ACCESSIBLE CEILING SPACE
- CARD READER C/W 19MM CONDUIT TO DOOR ACCESS PANEL VIA A JUNCTION BOX LOCATED IN NEAREST ACCESSIBLE CEILING SPACE
- DOOR HOLD OPEN DEVICE
- CABLE TV OUTLET C/W 27MM CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE IN CORRIDOR
- JUNCTION BOX
- THERMOSTAT
- PHOTOCELL
- 30 MM(2") CONDUIT SLEEVE THRU WALL ABOVE CEILING
- WALL/POLE MOUNTED CCTV CAMERA C/W 1" CONDUIT & DATA WIRING TO I.T. ROOM
- SOFFIT MOUNTED 360 DEGREES CCTV CAMERA C/W 1" CONDUIT UPTO I.T. ROOM
- SUSPENDED MOUNTED 360 DEGREES CCTV CAMERA C/W 1" CONDUIT UPTO I.T. ROOM
- CEILING MOUNTED 360 DEGREES CCTV CAMERA C/W 1" CONDUIT UPTO I.T. ROOM
- WIRELESS ACCESS POINT C/W 21MM CONDUIT TO NEAREST CABLE TRAY PV SYSTEM DENOTES PHOTOVOLTAIC SYSTEM
- PAC POWER/COMMUNICATION POLE (SUPPLIED BY OTHERS) POWER WHIP CABLE TO RUN FROM SYSTEM FURNITURE TO CEILING. PAC POLES SHALL BE UTILIZED BY ELECTRICAL CONTRACTOR AS A RACKWAY FOR RAINING POWER WHIP CABLES AND COMMUNICATION CABLES. CO-ORDINATE ON SITE AND WITH SYSTEM SUPPLIER FOR EXACT LOCATION OF THE PAC POLE PRIOR TO ROUGH-INS. REFER SPECIFICATIONS FOR CABLING/WIRING DETAILS. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOXES (SIZE TO SUIT APPLICATION) IN ACCESSIBLE CEILING SPACE ABE THE PAC POLE FOR FEEDING THE POWER WHIP CONNECTION
- SECURITY SYSTEM - MOTION SENSOR, WALL MOUNT C/W 21MM CONDUIT & WIRING UPTO SECURITY PANEL
- SECURITY SYSTEM - MOTION SENSOR/GLASS BREAK COMBO, 360 DEGREE CEILING MOUNTED, WALL MOUNTED C/W 21MM CONDUIT & WIRING UPTO SECURITY PANEL
- LEGRAND WIREMOLD AESTHETICALLY PLEASING DUAL CHANNEL NON METALLIC LOW PROFILE MULTIPLE CHANNEL RACKWAY SYSTEM (ACCESS-5000 SERIES) CONSIST OF DUPLEX RECEPTABLES C/W BACKBOX FOR DATA OUTLET WITH COVER PLATE AND DEVICE MOUNTING BRACKET WITH BY ROM SEPARATION FOR DATA OUTLET FOR EACH COMPUTER SYSTEM. RACKWAY SHALL BE MIN. 10MM WIDE AND 25MM THICK OF WIREMOLD NAME. TOP OF WIREMOLD ELECTRICAL WIRING TO OCCUPY THE LOWER CHANNEL OF THE RACKWAY. FULL STRING SHALL BE PROVIDED IN UPPER CHANNEL FOR THE LATER INSTALLATION OF DATA CABLES. REFER TO DRAWINGS FOR QUANTITIES AND WIRE DETAILS
- DENOTES FREEZER
- DENOTES FRIDGE
- DENOTES MOTORIZED DAMPER
- DENOTES PIPE HEAT TRACING
- DENOTES WIRE GUARD
- DENOTES DOOR OPERATOR
- DENOTES WASHER
- DENOTES CUBH CABINET UNIT HEATER
- DENOTES CONTROL VALVE
- DENOTES ELECTRONIC FAUCETS/PLUMBING FIXTURE
- DENOTES WEATHERPROOF
- DENOTES HAND DRYER
- DENOTES FIRE ALARM CONTROL PANEL
- DENOTES FIRE ALARM PASSIVE GRAPHICS
- DENOTES FIRE ALARM MONITORING CONTROL PANEL C/W 21MM CONDUIT & WIRING TO FACI. PROVIDE A DEDICATED PHONE/DATA OUTLET FOR THE FMCP
- DENOTES FIRE ALARM ANNUNCIATOR PANEL C/W PASSIVE GRAPHICS
- DENOTES UNIT HEATER
- DENOTES CEILING FAN-1 (TYP.)
- DENOTES SUB STATION
- DENOTES HIGH VOLTAGE
- DENOTES LOW VOLTAGE

LEGEND (CONTD.)

- DENOTES TRANSFORMER
 - DENOTES MICROWAVE
 - DENOTES AIR CONDITIONER
 - DENOTES VENTILATING UNIT#1 (TYP.)
 - DENOTES MOTORIZED BACKSTOP
 - DENOTES RANGE
 - DENOTES RANGE HOOD
 - DENOTES DISHWASHER
 - DENOTES VARIABLE VOLUME TERMINAL (MECHANICAL)
 - DENOTES CEILING FAN#1 (TYP.)
 - DENOTES LV MASTER SWITCH PANEL
 - DENOTES USB OUTLET
 - DENOTES HEMI OUTLET
 - DENOTES MANUAL TRANSFER SWITCH
 - DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #1
 - DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #2 AND CONTROLLED BY SWITCH #1
 - DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #3 AND CONTROLLED VIA RELAY-R1
 - DETAIL 1 ON DRAWING E101
 - NOTE PERTAINING TO SPECIFIC ITEM OR AREA
 - DENOTES EXISTING TO REMAIN
 - DENOTES EQUIPMENT TO BE REMOVED AND MADE GOOD
 - DENOTES EQUIPMENT TO BE RELOCATED
 - DENOTES EQUIPMENT IN RELOCATED POSITION
- NOTES FOR LEGEND
- THE WEATHERPROOF RECEPTABLES SHALL BE PROVIDED WITH COVER PLATES SUITABLE FOR WET LOCATIONS WHETHER OR NOT A PLUG IS INSERTED INTO THE RECEPTACLE (N-USE COVER PLATE) AS PER RULE 26-702(2) OF OESC.
 - "T" APPEARING WITH A RECEPTACLE DENOTES THE RECEPTACLE SHALL BE T-SLOT TYPE ON 20A CIRCUIT.

LUMINAIRE SCHEDULE

- 120V, 4.5" DA LED ROUND FIXED DOWN LIGHT, 22W, 1898 LUMENS, 3000K, C/W 0-10V DIMMING DRIVER. 30 LIGHTING# DL4SRF-22-490-30K-900-UM-DM-WI-WI-NCF-120V LUMENPULSE, FLOWERK, ERALUX
- 120V, 4.5" DA LED ROUND FIXED DOWN LIGHT, 22W, 2156 LUMENS, 3000K, SUITABLE FOR EXTERIOR APPLICATION, C/W 0-10V DIMMING DRIVER. 30 LIGHTING# DL4SRF-22-490-30K-600-UM-DM-BT-BW-NCF-120V LUMENPULSE, FLOWERK, ERALUX
- 120V, 4.5" DA LED ROUND FIXED DOWN LIGHT, 22W, 1898 LUMENS, 3000K, C/W 0-10V DIMMING DRIVER. 30 LIGHTING# DL4SRF-22-490-30K-900-UM-DM-BT-BW-NCF-120V LUMENPULSE, FLOWERK, ERALUX
- 120V, 4" LONG, 1.5" PENDANT ZONE SLOT DIRECT, (SUSPENDED BY AIRCRAFT CABLES), LED LUMINAIRE, BOTTOM OF THE FIXTURE TO BE 9" A.F.F., 5.9W/FT., 500 LUMENS/FT., 3000K, 0-10V DIMMING DRIVER. 30 LIGHTING# 1PM2S-0-0500-190-30K-550-UM-DM-WH-WLV-5(4)-120V LUMENPULSE, FLOWERK, ERALUX
- 120V, 1.5" LINEAR RECESSED IN T-BAR CEILING LED LUMINAIRE, 4.4W/FT., 500 LUMENS/FT., 3000K, 0-10V DIMMING DRIVER. 30 LIGHTING# 2RL1-LS00-190-30K-UM-DM-H90-6CK-FL-SX (LENGTH AS PER ELECTRICAL DWGS.) LUMENPULSE, FLOWERK, ERALUX
- 120V, 8" LONG, 1.5" PENDANT ZONE SLOT DIRECT, (SUSPENDED BY AIRCRAFT CABLES), LED LUMINAIRE, BOTTOM OF THE FIXTURE TO BE 9" A.F.F., 5.9W/FT., 500 LUMENS/FT., 3000K, 0-10V DIMMING DRIVER. 30 LIGHTING# 1PM2S-0-0500-190-30K-550-UM-DM-WH-WLV-5(8)-120V LUMENPULSE, FLOWERK, ERALUX
- 120V, 4" LONG, SURFACE MOUNTED, LED LUMINAIRE, 31W, 3400 LUMENS, 3000K, 0-10V DIMMING DRIVER. CREE LIGHTING# LS4-QL-830-R-L-10V-120V LUMENPULSE, FLOWERK, ERALUX
- 120V, 4.5" DA LED SURFACE MOUNTED ROUND DOWN LIGHT LUMINAIRE, 7.3W, 1000 LUMENS, 3000K, C/W 0-10V DIMMING DRIVER. NOVA # 90CR-1000LM-EST-30-120V-FINISH TO ARCHITECT SELECTION LUMENPULSE, FLOWERK, ERALUX
- 120V, 4" LONG, SURFACE MOUNTED, LED LUMINAIRE, 62W, 6800 LUMENS, 3000K, 0-10V DIMMING DRIVER. CREE LIGHTING# LS8-80L-830-R-L-10V-120V LUMENPULSE, FLOWERK, ERALUX
- 120V, 4" LONG, 1.5" PENDANT ZONE SLOT DIRECT/INDIRECT, (SUSPENDED BY AIRCRAFT CABLES), LED LUMINAIRE, BOTTOM OF THE FIXTURE TO BE 9" A.F.F., 5.9W/FT., 500 LUMENS/FT., 3000K, 0-10V DIMMING DRIVER. 30 LIGHTING# 1PL1-D-LS00-590-30K-FL-LS00-FL-4-UM-DM-WH-WLV-6(1)-S(4)-120V LUMENPULSE, FLOWERK, ERALUX
- 120V, LED LINEAR XOXLINE RGBW LED LUMINAIRE, P40, 6.1W/FT., 450 LUMENS/FT., XOXLINE-RGBW HD20 RGBW30 0L (REFER TO ARCHITECTURAL DRAWINGS/DETAILS FOR EXACT LOCATIONS, EXTENT OF APPLICATIONS & MORE INFORMATION PRIOR TO ORDERING)-90CR1-3000K-CL-LS-OC-MP X1-FED-120V LUMENPULSE, FLOWERK, ERALUX
- 120V, 3.5" DA LED PENDANT (BOTTOM OF THE FIXTURE TO BE 9.85") ROUND DOWN LIGHT LUMINAIRE, 7.3W, 1000 LUMENS, 3000K, C/W 0-10V DIMMING DRIVER. NOVA # 90CR-1000LM-EST-30-120V-FINISH TO ARCHITECT SELECTION LUMENPULSE, FLOWERK, ERALUX
- 120V, 3.5" DA LED SURFACE MOUNTED ROUND DOWN LIGHT LUMINAIRE, 7.3W, 1000 LUMENS, 3000K, C/W 0-10V DIMMING DRIVER. NOVA # 90CR-1000LM-EST-30-120V-FINISH TO ARCHITECT SELECTION LUMENPULSE, FLOWERK, ERALUX
- 120V, 8" DIA VERTICAL KUBO LED PENDANT (BOTTOM OF THE FIXTURE TO BE 9.85") ROUND DOWN LIGHT LUMINAIRE, 60W, 6182 LUMENS, 3000K, C/W 0-10V DIMMING DRIVER. L230-PROBARY-4-30K-120V-FINISH TO ARCHITECT SELECTION LUMENPULSE, FLOWERK, ERALUX
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DRAWING NOTES:

1. PROVIDE BATTERY UNIT BU-1 AT HIGH LEVEL, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE C.T.# TO THE BATTERY UNIT.
2. PROVIDE BATTERY UNIT BU-2 AT HIGH LEVEL, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE C.T.# TO THE BATTERY UNIT.
3. PROVIDE LED VERTICAL STRIP LIGHT FIXTURES TYPE-L6 IN MILLWORK AT TWELVE (12) LOCATIONS. REFER DETAIL#13 ON ARCHITECTURAL DWG. AS02 FOR EXACT LOCATION & LENGTHS OF THE LIGHT FIXTURES. PROVIDE C.T.#1A-17.2 TO ALL THESE LIGHT FIXTURES.
4. IN CASE OF LIGHT FIXTURES TYPE-CL, ONE END OF THE LIGHT FIXTURE SHALL TOUCH THE BULKHEAD. PROVIDE A RECESSED JUNCTION BOX IN THIS BULKHEAD AT SUITABLE LOCATION TO FEED THE LIGHT FIXTURES TYPE-CL VIA THIS RECESSED JUNCTION BOX.
5. THESE REMOTE EMERGENCY HEADS SHALL BE MOUNTED AS CEILING MOUNTED.
6. LIGHT FIXTURES OF TYPE-L12 & L13 SHALL HAVE TWO COMPONENTS (UPLIGHTS & DOWNLIGHTS). UPLIGHT/DOWNLIGHT TO BE PROVIDED WITH NETWORKED CRESTRON DISTRIBUTED LOAD CONTROLLER. DISTRIBUTED DEVICES TO BE INSTALLED IN ACCESSIBLE CEILING SPACE WHERE APPROPRIATE CEILING SPACE IS NOT AVAILABLE FOR MOUNTING DEVICES, PLACE DEVICES IN ADJACENT ACCESSIBLE CEILING SPACE OR NEAREST SERVICE ROOM/CLOSET OR PROVIDE APPROPRIATE CEILING ACCESS POINT TO SUIT SITE CONDITIONS. REFER TO REFER DIAGRAM FOR MORE INFORMATION.
7. PROVIDE C.T.#1A-17.1 TO ALL THESE LIGHT FIXTURES OF TYPE-L8 (A TOTAL OF 9 FIXTURES OF TYPE-L8)
8. REFER DWG. E703 FOR LIGHTING CONTROLS & LIGHTING ZONES OF LIGHTING LAYOUT.
9. PROVIDE LVMS (LOW VOLTAGE MASTER SWITCH PANEL) IN A LOCKABLE BACKBOX. REFER DETAIL#1 ON DWG. E801 FOR MORE INFORMATION.
10. INDICATES EXTERIOR ROOF MOUNTED GLS-LOC PHOTOCELL AS PART OF LIGHTING CONTROL SYSTEM C/W INTERNAL SNOW/ICE MELT HEATER. COORDINATE INSTALLATION WITH MANUFACTURER'S (CRESTRON) RECOMMENDATIONS. EXACT MOUNTING LOCATION TO BE CONFIRMED ON-SITE.
11. PROVIDE TWO (2) LED HORIZONTAL STRIP LIGHT FIXTURES (ONE FIXTURE TO BE DOWNLIGHT, SECOND LIGHT FIXTURE TO UPLIGHT) TYPE-L6 IN MILLWORK. REFER DETAIL#12 ON ARCHITECTURAL DWG. AS52 FOR EXACT LOCATION & LENGTHS/EXTENT OF APPLICATION OF THE LIGHT FIXTURES. PROVIDE C.T.#1A-62.1 TO ALL THESE LIGHT FIXTURES. LIGHTING CONTROL TO BE SIMILAR TO THE ONE AS LIGHTING CONTROL OF L6 LIGHT FIXTURES IN SENSORY ROOM-1041.
12. PROVIDE FOUR (4) LED VERTICAL STRIP LIGHT FIXTURES TYPE-L6 IN MILLWORK. REFER DETAIL#10 ON ARCHITECTURAL DWG. AS52 FOR EXACT LOCATION & LENGTHS/EXTENT OF APPLICATION OF THE LIGHT FIXTURES. PROVIDE C.T.#1A-62.1 TO ALL THESE LIGHT FIXTURES. THESE LIGHT FIXTURES SHALL BE CONTROLLED BY THE SYSTEM CONTROLLING L6 LIGHT FIXTURES DESCRIBED UNDER DWG. NOTE-11.
13. THIS LIGHT FIXTURE (L6) SHALL BE LOCATED IN COVE ALONG PERIMETER OF THE SENSORY ROOM. REFER ARCHITECTURAL DRAWINGS (DETAIL# ON DWG. A162) FOR EXACT LOCATION & EXTENT OF APPLICATION & MORE INFORMATION AND PROCEED ACCORDINGLY.
14. PROVIDE A DEDICATED SEPARATE ZONE FOR LIGHTING CONTROL OF L6 LIGHT FIXTURES DESCRIBED UNDER DWG. NOTE-11 & 12. COORDINATE WITH SYSTEM SUPPLIER & PROVIDE ALL NECESSARY MATERIAL, LABOR, PUSH BUTTONS ETC. FOR FULLY OPERATIONAL LIGHTING CONTROL OF THESE LIGHT FIXTURES.

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.
Do not scale this drawing.

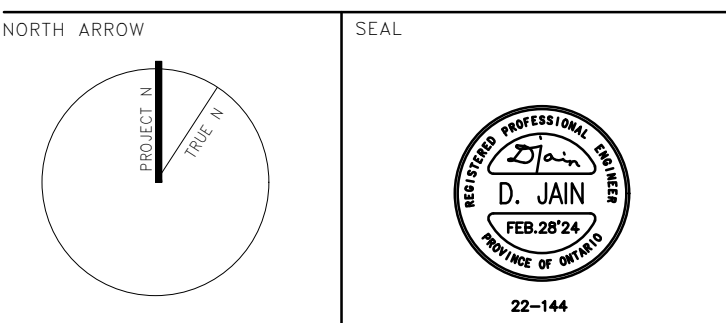
REVISIONS AND ISSUES

REV	DESCRIPTION	DATE
1.	ISSUED FOR REVIEW	JUNE.03'22
2.	ISSUED FOR SCHEMATIC DESIGN	JULY.04'22
3.	ISSUED FOR FINAL SCHEMATIC DESIGN	JULY.06'22
4.	ISSUED FOR CLASS-B & CLIENT'S REVIEW	AUG.25'22
5.	ISSUED FOR FINAL DD SUBMISSION	SEPT.22'22
6.	ISSUED FOR 70% CD	DEC.20'22
7.	ISSUED FOR 100% CD SUBMISSION	MAR.31'23
8.	ISSUED FOR BUILDING PERMIT	JUNE.28'23
9.	ISSUED FOR PERMITS	JULY.27'23
10.	ISSUED FOR ADDENDUM#2	FEB.28'24



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PROJECT TITLE
CENTURY GARDENS COMMUNITY YOUTH HUB

Project Address
342 VODDEN ST. E BRAMPTON ONTARIO L6V1N4

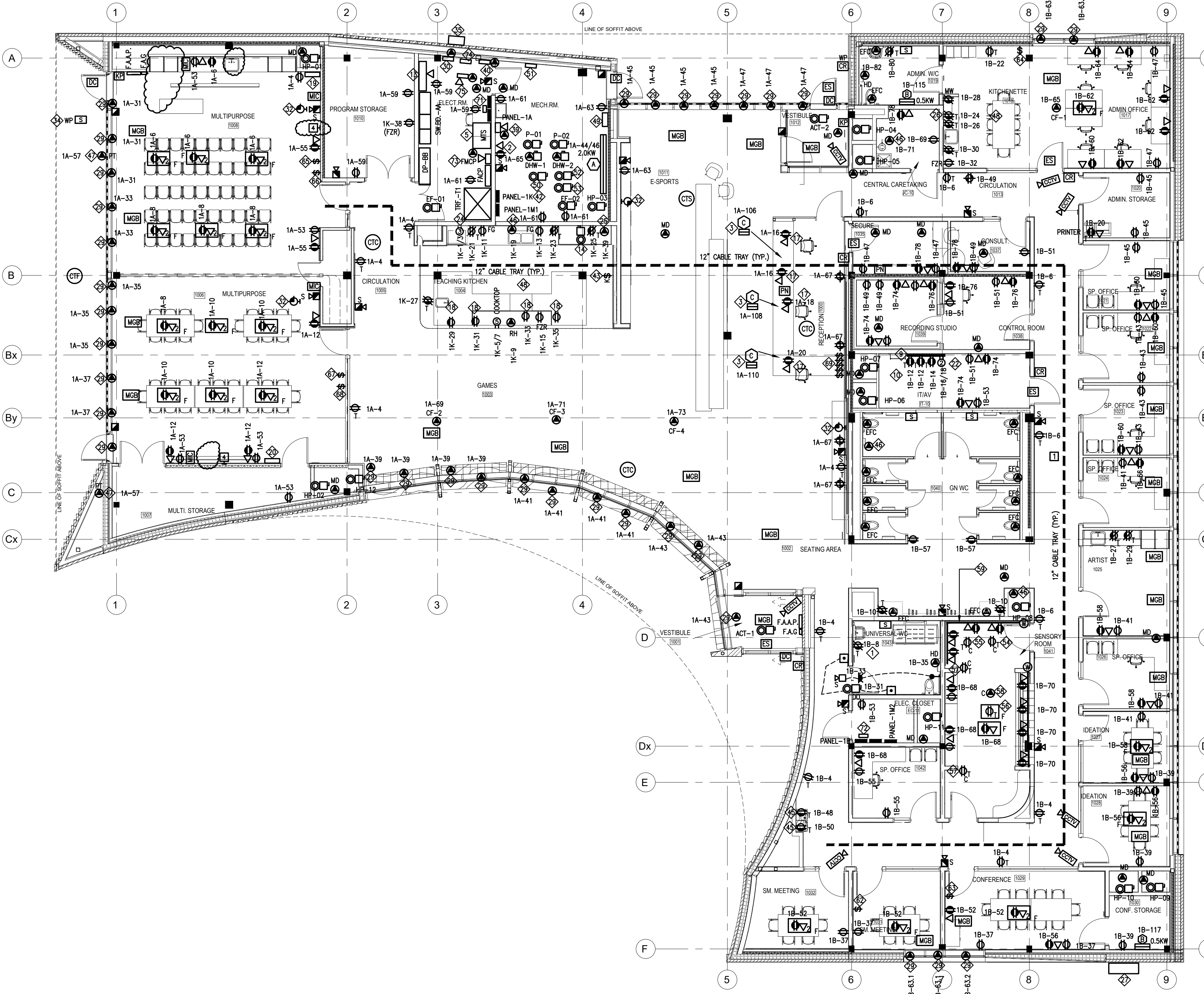
DRAWING TITLE
LIGHTING LAYOUT

SCALE
1: 100

DATE
FEB.28'2024

PROJECT NUMBER
22-144

DRAWING NUMBER
E201



DRAWING NOTES:

- 1. PROVIDE CALL FOR ASSISTANCE SYSTEM IN WASHROOM WHICH SHALL BE CAMDEN/ CX-WC10 CONSISTING OF:
 - 1. NO. WASHROOM PUSH BUTTON, STAINLESS STEEL, PUSH/PULL, PRESS FOR EMERGENCY ASSISTANCE, CAMDEN CM-412. THE PUSH BUTTON SHALL BE MOUNTED ON A SINGLE GANG BACKBOX.
 - 1. NO. SINGLE GANG LED ANNUNCIATOR C/W SOUNDER, ASSISTANCE REQUESTED, CAMDEN CM-410. THE SINGLE GANG LED ANNUNCIATOR C/W SOUNDER SHALL BE MOUNTED INSIDE THE B.F. WASHROOM.
 - 1. NO. SINGLE GANG DOME LIGHT WITH SOUNDER, ASSISTANCE REQUESTED, CAMDEN CM-410. TO BE MOUNTED OUTSIDE THE B.F. WASHROOM.
- 2. PROVIDE 1" CONDUIT TO INTERCONNECT ALL THE THREE GANGBOXES IDENTIFIED BY DWG. NOTES-34, 35 & 36.
- 3. COORDINATE ON SITE FOR EXACT LOCATION OF REMOTE THERMOSTATS OF ELECTRICAL HEATERS.
- 4. SECURITY PANEL, PROVIDE TELEPHONE OUTLET & POWER (CCT#1A-51) TO THE SECURITY PANEL.
- 5. DOOR ACCESS PANEL, PROVIDE POWER (CCT#1A-49) TO THE DOOR ACCESS PANEL.
- 6. COORDINATE ON SITE FOR EXACT LOCATION OF ELECTRICAL PANELS SO AS TO HAVE CLEARANCES IN FRONT OF THE PANELS TO BE AS PER CODE REQUIREMENTS.
- 7. PANEL-1K SHALL FEED MAJOR EQUIPMENT IN TEACHING KITCHEN AREA. THIS PANEL SHALL BE FED VIA A 200A, 288V, 3-POLE CONTACTOR (CONTACTOR C/M ENCLOSURE SHALL BE INSTALLED IN NEAREST ACCESSIBLE CEILING SPACE. PROVIDE CCT#1K-2 AS AUXILIARY POWER TO THE CONTACTOR) AND THE CONTACTOR SHALL BE CONTROLLED BY A KEYSWITCH (DESCRIBED UNDER DWG. NOTE-43). THE POWER TO THE PANEL-1K SHALL BE RESTORED ONLY FROM THE KEYSWITCH (DESCRIBED UNDER DWG. NOTE-43). IN CASE OF EMERGENCY, POWER TO THE PANEL-1K SHALL BE KILLED BY THE KEYSWITCH (DESCRIBED UNDER DWG. NOTE-43).
- 8. KEYSWITCH (REFERRED UNDER DWG. NOTE-42) FOR KILLING & RESTORING POWER TO THE PANEL-1K.
- 9. COORDINATE ON SITE & WITH MECHANICAL TRADE FOR EXACT LOCATION OF POWER FOR CEILING FANS PRIOR TO ROUGH-IN.
- 10. PROVIDE POWER FOR REFRIGERATED DRAWING FOUNTAIN, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 11. PROVIDE POWER FOR TRIP SEAL PRIMER, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 12. PROVIDE POWER FOR HEAT PIPE TRACING, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 13. COORDINATE WITH KITCHEN CONSULTANT'S DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHT OF VARIOUS ELECTRICAL OUTLETS IN KITCHENS PRIOR TO ROUGH-IN.
- 14. PT ENCLOSURE-1 (PTE-1), PT ENCLOSURE-2 (PTE-2), BWP-1, BWP-2, BWP-3 FOR DIGITAL METERS SYSTEM, COORDINATE ON SITE & WITH SYSTEM SUPPLIER FOR EXACT LOCATION & MOUNTING HEIGHT PRIOR TO ROUGH-IN. REFER DWG. E400 & E501 FOR MORE INFORMATION.
- 15. PROVIDE POWER FOR RE-CIRC. PUMP FOR DHW-1/DHW-2, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 16. CONTROL PANEL OF RAIN WATER HARVESTING WELL PUMP, REFER MECHANICAL EQUIPMENT WIRING SCHEDULE FOR MORE INFORMATION.
- 17. PROVIDE POWER FOR EXCESS PRESSURE PUMP, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 18. PROVIDE POWER FOR AIR COMPRESSOR, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 19. PROVIDE POWER (CCT#1B-30) IN CEILING SPACE FOR FIBRE OPTICS LIGHT SOURCE CABINET, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 20. PROVIDE POWER (CCT#1B-30) IN CEILING SPACE FOR CORNER FIBRE OPTICS WATER SHELL, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 21. PROVIDE POWER (CCT#1B-40) FOR BUBBLE TABLE, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 22. PROVIDE POWER (CCT#1B-42) IN CEILING SPACE FOR WALL MOUNT FIBRE OPTICS CURTAIN, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 23. PROVIDE POWER (CCT#1B-44) IN CEILING SPACE FOR MOBILE WIRAP, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 24. PROVIDE CCT#1A-72 TO ALL THE FOUR RECEPTACLE LOCATED ON THE WIREWAY RACEWAY.
- 25. PROVIDE CCT#1B-59 TO ALL THE MOTORIZED DAMPERS LOCATED BETWEEN GRID LINE-4 TO GRID LINE-9. PROVIDE CCT#1A-25 TO ALL THE REMAINING MOTORIZED DAMPERS.
- 26. PROVIDE CCT#1B-61 TO ALL THE ELECTRONIC FAUCETS LOCATED BETWEEN GRID LINE-6 TO GRID LINE-9. PROVIDE CCT#1A-27 TO ALL THE REMAINING ELECTRIC FAUCETS.
- 27. PROVIDE UP/DOWN/OFF SWITCH FOR ROLLER SHADES (CCT#1B-63.1).
- 28. PROVIDE UP/DOWN/OFF SWITCH FOR ROLLER SHADES (CCT#1B-63.2).
- 29. PROVIDE UP/DOWN/OFF SWITCH FOR ROLLER SHADES (CCT#1B-63.3).
- 30. PROVIDE UP/DOWN/OFF SWITCH FOR ROLLER SHADES (CCT#1A-31).
- 31. PROVIDE UP/DOWN/OFF SWITCH FOR ROLLER SHADES (CCT#1A-33).
- 32. PROVIDE UP/DOWN/OFF SWITCH FOR ROLLER SHADES (CCT#1A-35).
- 33. PROVIDE UP/DOWN/OFF SWITCH FOR ROLLER SHADES (CCT#1A-37).
- 34. PROVIDE UP/DOWN/OFF SWITCHES FOR ROLLER SHADES (CCT#1A-39, 1A-41, 1A-43, 1A-45, 1A-47).
- 35. PROVIDE CCT#1B-67 TO ALL THE ELECTRIC STRIKES LOCATED BETWEEN GRID LINE-6 TO GRID LINE-9. PROVIDE CCT#1A-32 TO ALL THE REMAINING ELECTRIC STRIKES.
- 36. RELAY PANEL-R1A SHALL BE LOCATED ABOVE PANEL-1A.
- 37. RELAY PANEL-R1B SHALL BE LOCATED ABOVE PANEL-1B.
- 38. FIRE ALARM MONITORING CONTROL PANEL (FMCP), PROVIDE A DATA OUTLET & POWER (CCT#1A-52) FOR THE FIRE ALARM MONITORING CONTROL PANEL. ALSO PROVIDE 1-2MM CONDUIT FROM THE FACED TO FACED.
- 39. PV MONITORING METER (BY PV CONTRACTOR), COORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE 1-2MM CONDUIT FROM THIS METER TO LOGIC (IDENTIFIED BY DWG. NOTE-35).
- 40. PV MONITORING SYSTEM (BY PV SYSTEM CONTRACTOR), COORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE POWER (CCT#1A-54) & DATA OUTLET FOR THE MONITORING SYSTEM. REFER RENEWABLE ENERGY DO NOT-METERED SOLAR PV DRAWINGS AND PROVIDE ALL NECESSARY ROUGH-INS, POWER, DATA OUTLETS, WIRING ETC. AS REQUIRED & COMPLY ACCORDINGLY. ALSO COORDINATE WITH SYSTEM SUPPLIER FOR EXACT SCOPE OF WORK AND PROVIDE ALL NECESSARY MATERIAL, LABOR, ROUGH-INS, WIRING ETC. FOR FULLY OPERATIONAL SYSTEM, NO EXTRA ALLOWANCE, WHATSOEVER SHALL BE ADMISSIBLE AT A LATER DATE ON THIS ACCOUNT.
- 41. VERIFY ON SITE FOR EXACT LOCATION OF MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- 42. PROVIDE POWER FOR MOTORIZED ROLLER SHADES, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 43. PROVIDE CENTRAL CLOCK SYSTEM AND WIRE TO VARIOUS CLOCKS (LOCATED IN MULTIPURPOSE ROOMS & LOBBY). PROVIDE POWER (CCT#1A-42) TO THE CENTRAL CLOCK SYSTEM.
- 44. RESERVED.
- 45. PROVIDE DIGITAL CLOCK (C/W BATTERY BACK UP) AND CONNECT TO CENTRAL CLOCK SYSTEM.
- 46. COORDINATE ON SITE FOR EXACT LOCATION OF CCTV CAMERAS PRIOR TO ROUGH-IN.
- 47. PROVIDE WEATHERPROOF FIRE ALARM STROBE LIGHT IN SOFFIT TO INDICATE FIRE DEPARTMENT ENTRANCE.
- 48. 100A, 600V, 3-PH, 4W, NEMA-3R (WEATHERPROOF, PAD LOCKABLE, VISIBLE BREAK ISOLATION, OUTDOOR TYPE DISCONNECT SWITCH (DQD)2, SUPPLIED & INSTALLED BY PV CONTRACTOR).

DRAWING NOTES (CONTD.):

- 49. RESERVED.
- 50. RESERVED.
- 51. RESERVED.
- 52. RESERVED.
- 53. RESERVED.
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- 96. RESERVED.
- 97. RESERVED.
- 98. RESERVED.
- 99. RESERVED.
- 100. RESERVED.

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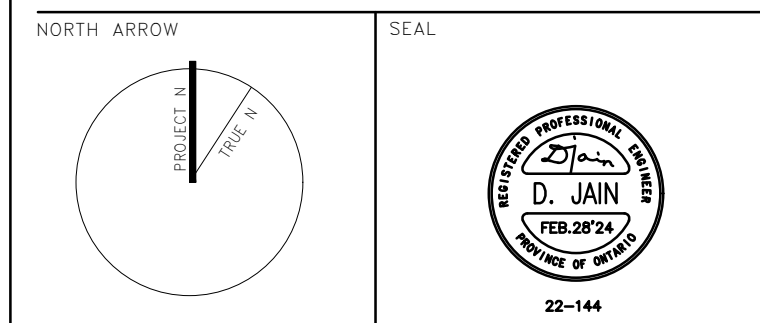
REVISIONS AND ISSUES

REV	DESCRIPTION	DATE
1.	ISSUED FOR REVIEW	JUNE.03'22
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5.	ISSUED FOR FINAL DD SUBMISSION	SEPT.22'22
6.	ISSUED FOR 70% CD	DEC.20'22
7.	ISSUED FOR 100% CD SUBMISSION	MAR.31'23
8.	ISSUED FOR BUILDING PERMIT	JUNE.28'23
9.	ISSUED FOR TENDER	NOV.08'23
10.	ISSUED FOR ADDENDUM#2	FEB.28'24



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PROJECT TITLE
CENTURY GARDENS COMMUNITY YOUTH HUB

Project Address
342 VODDEN ST. E BRAMPTON ONTARIO L6V1N4

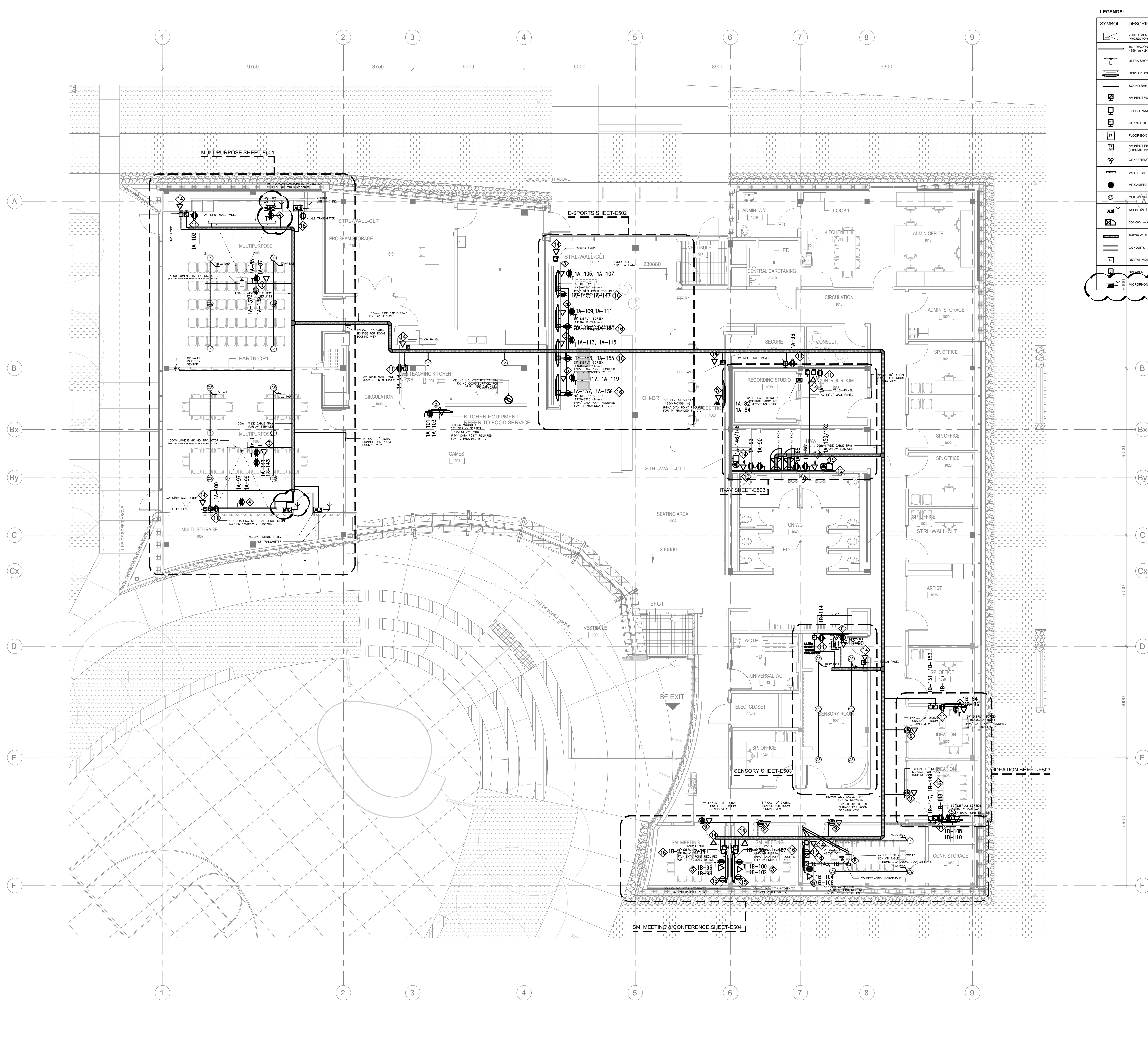
DRAWING TITLE
POWER & SYSTEMS LAYOUT

SCALE
1: 100

DATE
FEB.28'2024

PROJECT NUMBER
22-144

DRAWING NUMBER
E301



LEGENDS:

SYMBOL	DESCRIPTION	MOUNTING	POWER REQUIREMENTS
[Symbol]	700 LUMENS 4K HD PROJECTOR WITH RETRACTABLE PROJECTOR LIFT	CEILING	15 AMP SOCKET X2 ABOVE CEILING 13 AMP X 2 ABOVE CEILING
[Symbol]	10" DIAGONAL MOTORIZED PROJECTION SCREEN 4550mm x 2485mm	CEILING	13 AMP X 2 ABOVE CEILING
[Symbol]	ULTRA SHORT THROW PROJECTOR	WALL MOUNTED	13 AMP X 2 WALL SOCKET
[Symbol]	DISPLAY SCREEN - TV (SIZE AS PER LAYOUT)	2000mm AFL (TOP OF SCREEN)	13 AMP X 2 WALL SOCKET
[Symbol]	SOUND BAR WITH INTEGRATED VC CAMERA (BELOW TV)	---	13 AMP X 1 WALL SOCKET
[Symbol]	AV INPUT WALL PANEL	450mm AFL	13 AMP X 2 WALL SOCKET RESERVE PANEL
[Symbol]	TOUCH PANEL	1200mm AFL	POWER OVER ETHERNET
[Symbol]	CONNECTION PANEL	450mm AFL	13 AMP X 2 WALL SOCKET RESERVE PANEL
[Symbol]	FLOOR BOX	FINISHED FLOOR	13 AMP X 2 SOCKET IN FLOOR BOX
[Symbol]	AV INPUT FB AND POPUP BOX ON TABLE (EXPOSED W/AS REQUIRED MAIN TO R/W)	FINISHED FLOOR	CONNECTED TO FLOOR BOX SOCKET
[Symbol]	CONFERENCE MICROPHONE	TABLE MOUNTED	CONNECTED TO FLOOR POPUP BOX SOCKET
[Symbol]	WIRELESS TOUCH PANEL	TABLE MOUNTED	13 AMP X 1 WALL SOCKET OR CONNECTED TO POPUP BOX SOCKET
[Symbol]	VC CAMERA ABOVE TV	---	13 AMP X 1 WALL SOCKET
[Symbol]	CEILING SPEAKER	CEILING	NOT APPLICABLE
[Symbol]	ASSISTIVE LISTENING SYSTEM WITH ALS TRANSMITTER	CEILING	13 AMP X 1 SOCKET ABOVE CEILING
[Symbol]	4000W AV RACK	FLOOR MOUNTED	32 AMP X 1 INDUSTRIAL SOCKET WALL MOUNT
[Symbol]	150mm WIDE CABLE TRAY	ABOVE FALSE CEILING	NOT APPLICABLE
[Symbol]	CONDUITS	EXPOSED ABOVE FALSE CEILING EMBEDDED IN WALL OR FLOOR	NOT APPLICABLE
[Symbol]	DIGITAL MIXER	DESK MOUNTED	13 AMP X 1 WALL SOCKET
[Symbol]	SPKERS	WALL MOUNTED	NOT APPLICABLE
[Symbol]	MICROPHONE ANTENNA	CEILING	NOT APPLICABLE

- DRAWING NOTES:**
1. "BY OTHERS" WHEREVER APPEARING ON THE DRAWING MEANS THAT THE EQUIPMENT/DEVICE/POWER/DATA OUTLET SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
 2. COORDINATE WITH SYSTEM SUPPLIER & PROVIDE ALL CONDUITS, COMMUNICATION CABLES, & POWER, FLOOR BOXES, ROUGH-INS, POWER, DATA OUTLETS, MATERIAL & LABOR ETC. SHOWN ON THIS DRAWING FOR FULLY OPERATIONAL SYSTEM.
 3. PROVIDE POWER (SPLIT TYPE T-DUPLEX RECEPTACLE, SPLIT TYPE REGULAR RECEPTACLE C/W 2 CIRCUITS) & A DATA OUTLET FOR PROJECTOR, COORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 4. PROVIDE POWER (SPLIT TYPE T-DUPLEX RECEPTACLE C/W 2 CIRCUITS) FOR PROJECTOR SCREEN, COORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 5. PROVIDE POWER (SPLIT TYPE T-DUPLEX RECEPTACLE C/W 2 CIRCUITS, SWITCHED) & A DATA OUTLET FOR ULTRA SHORT PROJECTOR, COORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 6. RESERVED.
 7. PROVIDE POWER (CCT.#1B-54) FOR THE FLOOR BOX.
 8. PROVIDE POWER (CCT.#1B-112) & DATA OUTLET FOR ROOM BOOKING VIEW, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 9. PROVIDE POWER & DATA OUTLETS FOR AV RACKS, COORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION PRIOR TO ROUGH-INS.
 10. PROVIDE POWER (RECEPTACLE BESIDE AV INPUT PANEL) FOR AV INPUT PANEL, COORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION PRIOR TO ROUGH-INS.
 11. PROVIDE 21MM THICK, 2.44M HIGH FIRE RESISTANT COMMUNICATION PLYWOOD BOARD FOR AV SERVICES
 12. PROVIDE #6 AWG GROUNDING CONDUCTOR IN CONDUIT C/W GROUNDING BUS BARS OF SIZE 1/4"x2"x10" FOR AV SYSTEM (AS REQUIRED BY SYSTEM SUPPLIERS) FOR AV SYSTEM, DATA EQUIPMENTS BONDING IN I.T. ROOM. EXACT LOCATION TO BE VERIFIED ON SITE. GROUNDING OF THE EQUIPMENTS IN THE I.T. ROOM SHALL BE CONNECTED TO MAIN GROUNDING BUS BAR OF THE MAIN BUILDING.
 13. PROVIDE DATA OUTLET FOR EACH OF THE TOUCH PANEL (TYP.), COORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 14. PROVIDE POWER (CCT.#1B-136) FOR SOUND BAR, COORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 15. PROVIDE POWER (SPLIT TYPE DUPLEX RECEPTACLE C/W 2 CIRCUITS.) FOR CONNECTION PANEL, COORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 16. PROVIDE POWER (CCT.#1B-155) FOR VC CAMERA ABOVE TV, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 17. PROVIDE POWER (CCT.#1A-161) ABOVE CEILING FOR ASSISTIVE LISTENING SYSTEM, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.
 18. PROVIDE POWER (60A,2P) FOR AV RACK, COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN.

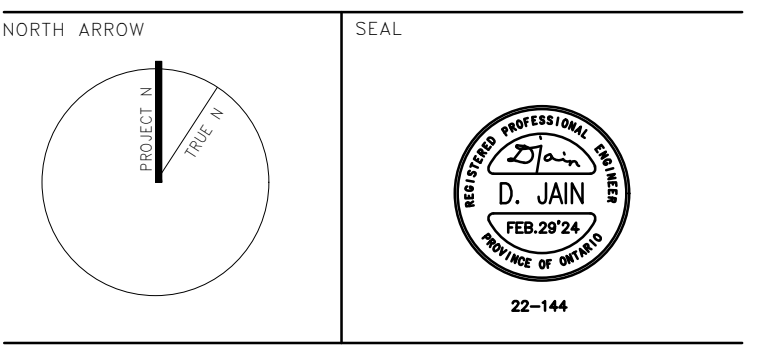
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REVISIONS AND ISSUES

REV	DESCRIPTION	DATE
1.	ISSUED FOR REVIEW	JUNE.03'22
2.	ISSUED FOR SCHEMATIC DESIGN	JULY.04'22
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5.	ISSUED FOR FINAL DD SUBMISSION	SEPT.22'22
6.	ISSUED FOR 70% CD	DEC.20'22
7.	ISSUED FOR 100% CD SUBMISSION	MAR.31'23
8.	ISSUED FOR BUILDING PERMIT	JUNE.28'23
10.	ISSUED FOR ADDENDUM#2	FEB.29'24

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PROJECT TITLE
CENTURY GARDENS COMMUNITY YOUTH HUB

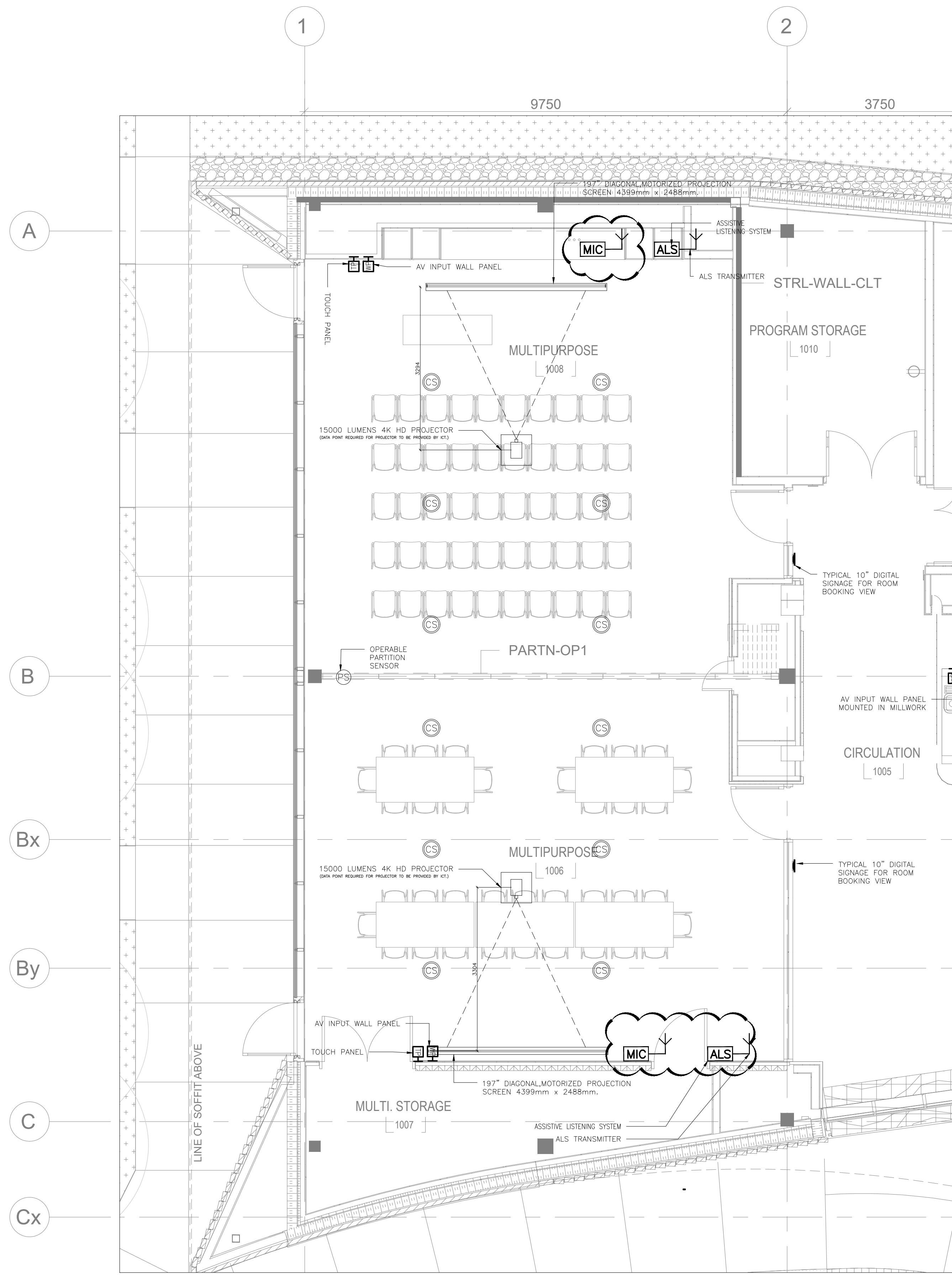
Project Address
 342 VODDEN ST. E BRAMPTON ONTARIO L6V1N4

DRAWING TITLE
AUDIO VISUAL SYSTEM LAYOUT-OVERALL

SCALE: 1:100
 DATE: FEB.29'2024
 PROJECT NUMBER: 22-144
 DRAWING NUMBER: E500

DRAWING NOTES:

1. 'BY OTHERS' WHEREVER APPEARING ON THE DRAWING MEANS THAT THE EQUIPMENT/DEVICE/POWER/DATA OUTLET SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. COORDINATE WITH SYSTEM SUPPLIER & PROVIDE ALL CONDUITS, COMMUNICATION CABLES & POWER FLOOR BOXES, ROUGH-INS, POWER, DATA OUTLETS, MATERIAL & LABOR ETC. SHOWN ON THIS DRAWING FOR FULLY OPERATIONAL SYSTEM.



MULTIPURPOSE AUDIO VISUAL SYSTEM ROOM LAYOUT

LEGENDS:

SYMBOL	DESCRIPTION	MOUNTING	POWER REQUIREMENTS
[Symbol]	1000 LUMENS 4K HD PROJECTOR WITH RETRACTABLE PROJECTOR LIP	CEILING	16 AMP SOCKET X2 ABOVE CEILING 13 AMP X 2 ABOVE CEILING
[Symbol]	197" DIAGONAL MOTORIZED PROJECTION SCREEN 4399mm x 2488mm	CEILING	13 AMP X 2 WALL SOCKET
[Symbol]	ULTRA SHORT THROW PROJECTOR	WALL MOUNTED	13 AMP X 2 WALL SOCKET
[Symbol]	DISPLAY SCREEN / TV (SIZE AS PER LAYOUT)	2000mm AFFL (TOP OF SCREEN)	13 AMP X 1 WALL SOCKET
[Symbol]	BOARD BAR WITH INTEGRATED VC CAMERA (BELOW TV)	—	13 AMP X 1 WALL SOCKET
[Symbol]	AV INPUT WALL PANEL	480mm AFFL	13 AMP X 2 WALL SOCKET BEHIND PANEL
[Symbol]	TOUCH PANEL	1200mm AFFL	POWER OVER ETHERNET
[Symbol]	CONNECTION PANEL	480mm AFFL	13 AMP X 2 WALL SOCKET BEHIND PANEL
[Symbol]	FLOOR BOX	FINISHED FLOOR	13 AMP X 2 SOCKET IN FLOOR BOX
[Symbol]	AV INPUT FIBER POPUP BOX ON TABLE (FIBER LOGS/INDICATOR PLAIN 15" SQUARE)	FINISHED FLOOR	CONNECTED TO FLOOR BOX SOCKET
[Symbol]	CONFERENCE MICROPHONE	TABLE MOUNTED	CONNECTED TO FLOOR POP UP BOX SOCKET
[Symbol]	WIRELESS TOUCH PANEL	TABLE MOUNTED	13 AMP X 1 WALL SOCKET OR CONNECTED TO POP UP BOX SOCKET
[Symbol]	VC CAMERA ABOVE TV	—	13 AMP X 1 WALL SOCKET
[Symbol]	CEILING SPEAKER	CEILING	NOT APPLICABLE
[Symbol]	ASSISTIVE LISTENING SYSTEM WITH ALS TRANSMITTER	CEILING	13 AMP X 1 SOCKET ABOVE CEILING
[Symbol]	800mmx50mm AV RACK	FLOOR MOUNTED	32 AMP X 1 INDUSTRIAL SOCKET WALL MOUNT
[Symbol]	100mm WIDE CABLE TRAY	ABOVE FALSE CEILING	NOT APPLICABLE
[Symbol]	CONDUITS	EXPOSED ABOVE FALSE CEILING / EMBEDDED WIDE WALL OR FLOOR	NOT APPLICABLE
[Symbol]	DIGITAL WDR	DESK MOUNTED	13 AMP X 1 WALL SOCKET
[Symbol]	SPARKER	WALL MOUNTED	NOT APPLICABLE
[Symbol]	MICROPHONE ANTENNA	CEILING	NOT APPLICABLE

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.
Do not scale this drawing.

REVISIONS AND ISSUES

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1.	ISSUED FOR REVIEW	JUNE.03'22
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5.	ISSUED FOR FINAL DD SUBMISSION	SEPT.22'22
6.	ISSUED FOR 70% CD	DEC.20'22
7.	ISSUED FOR 100% CD SUBMISSION	MAR.31'23
8.	ISSUED FOR BUILDING PERMIT	JUNE.28'23
9.	ISSUED FOR PERMIT	JULY.18'23
10.	ISSUED FOR ADDENDUM#2	FEB.29'24

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NORTH ARROW

SEAL

PROJECT TITLE
CENTURY GARDENS COMMUNITY YOUTH HUB

Project Address
342 VODDEN ST. E BRAMPTON ONTARIO L6V1N4

DRAWING TITLE
MULTIPURPOSE ROOM AV SYSTEM LAYOUT

SCALE **N.T.S.**

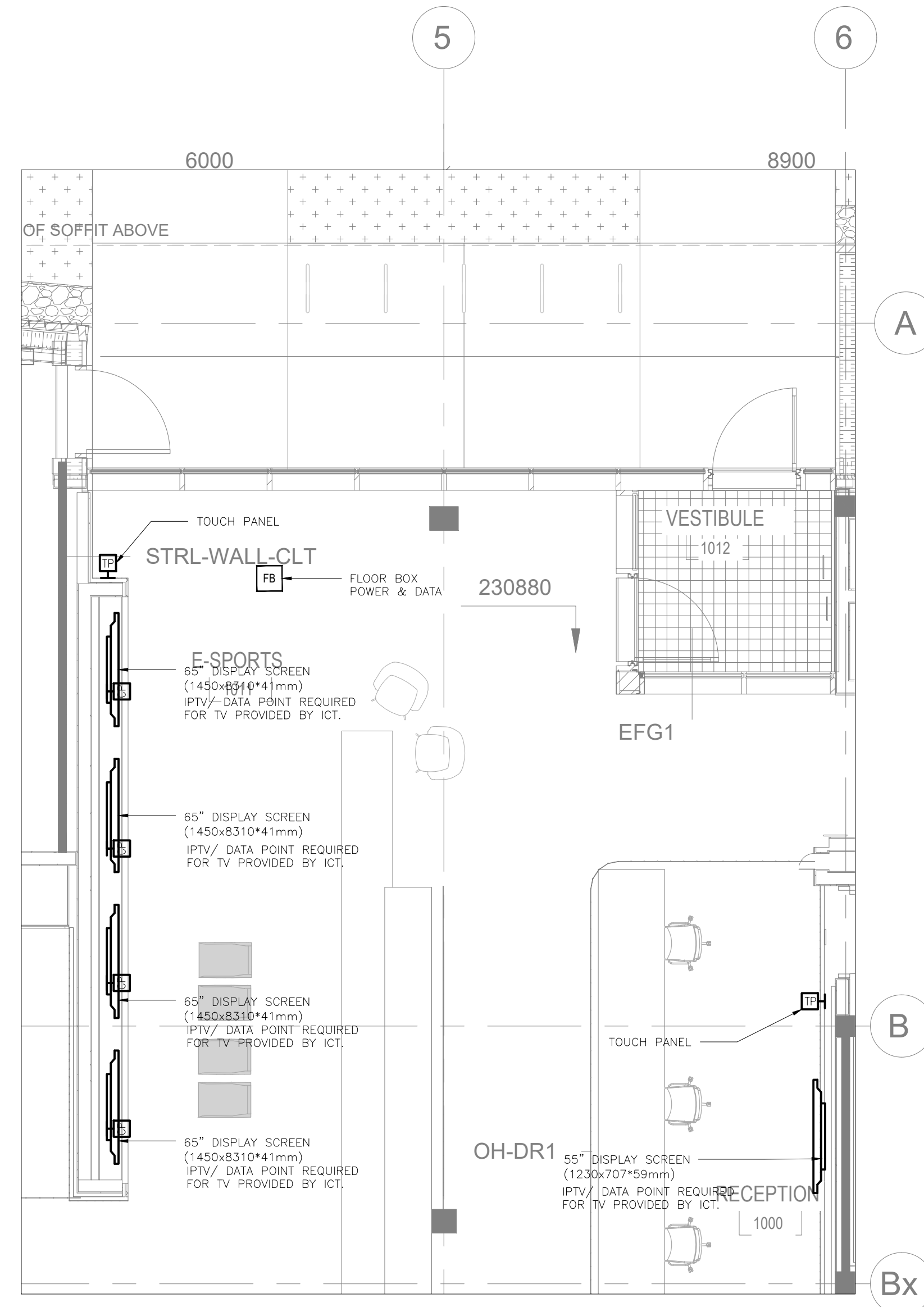
DATE **FEB.29'2024**

PROJECT NUMBER **22-144**

DRAWING NUMBER **E501**

DRAWING NOTES:

- 'BY OTHERS' WHEREVER APPEARING ON THE DRAWING MEANS THAT THE EQUIPMENT/DEVICE/POWER/DATA OUTLET SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
- COORDINATE WITH SYSTEM SUPPLIER & PROVIDE ALL CONDUITS, COMMUNICATION CABLES, & POWER, FLOOR BOXES, ROUGH-IN'S, POWER, DATA OUTLETS, MATERIAL & LABOR ETC. SHOWN ON THIS DRAWING FOR FULLY OPERATIONAL SYSTEM.



E-SPORTS AUDIO VISUAL SYSTEM ROOM LAYOUT

LEGENDS:

SYMBOL	DESCRIPTION	MOUNTING	POWER REQUIREMENTS
	750 LUMENS 4K HD PROJECTOR WITH RETRACTABLE PROJECTOR LIFT	CEILING	15 AMP SOCKET TO ABOVE CEILING 15 AMP X 2 ABOVE CEILING
	187" DIAGONAL MOTORIZED PROJECTION SCREEN 4300mm x 2300mm	CEILING	15 AMP X 2 ABOVE CEILING
	ULTRA SHORT THROW PROJECTOR	WALL MOUNTED	15 AMP X 2 WALL SOCKET
	DISPLAY SCREEN / TV (SIZE AS PER LAYOUT)	2000mm AFPL (TOP OF SCREEN)	15 AMP X 2 WALL SOCKET
	SOUND BAR WITH INTEGRATED VC CAMERA (BELOW TV)	---	15 AMP X 1 WALL SOCKET
	AV INPUT WALL PANEL	400mm AFPL	15 AMP X 2 WALL SOCKET BESIDE PANEL
	TOUCH PANEL	1200mm AFPL	POWER OVER ETHERNET
	CONNECTION PANEL	400mm AFPL	15 AMP X 2 WALL SOCKET BESIDE PANEL
	FLOOR BOX	FINISHED FLOOR	15 AMP X 2 SOCKET IN FLOOR BOX
	AV INPUT FB AND POPUP BOX ON TABLE (1400mm X 600mm AUDIO, 1400mm X 150mm)	FINISHED FLOOR	CONNECTED TO FLOOR BOX SOCKET
	CONFERENCE MICROPHONE	TABLE MOUNTED	CONNECTED TO FLOOR POPUP BOX SOCKET
	WIRELESS TOUCH PANEL	TABLE MOUNTED	15 AMP X 1 WALL SOCKET OR CONNECTED TO POPUP BOX SOCKET
	VC CAMERA ABOVE TV	---	15 AMP X 1 WALL SOCKET
	CEILING SPEAKER	CEILING	NOT APPLICABLE
	ACTIVE LISTENING SYSTEM WITH ALS TRANSMITTER	CEILING	15 AMP X 1 SOCKET ABOVE CEILING
	600x800mm AV RACK	FLOOR MOUNTED	32 AMP X 1 INDUSTRIAL SOCKET WALL MOUNT
	150mm WIDE CABLE TRAY	ABOVE FALSE CEILING	NOT APPLICABLE
	CONDUITS	EXPOSED ABOVE FALSE CEILING EMBEDDED INSIDE WALL OR FLOOR	NOT APPLICABLE
	DIGITAL MIXER	DESK MOUNTED	15 AMP X 1 WALL SOCKET
	SPEAKER	WALL MOUNTED	NOT APPLICABLE
	MICROPHONE ANTENNA	CEILING	NOT APPLICABLE

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NORTH ARROW

SEAL

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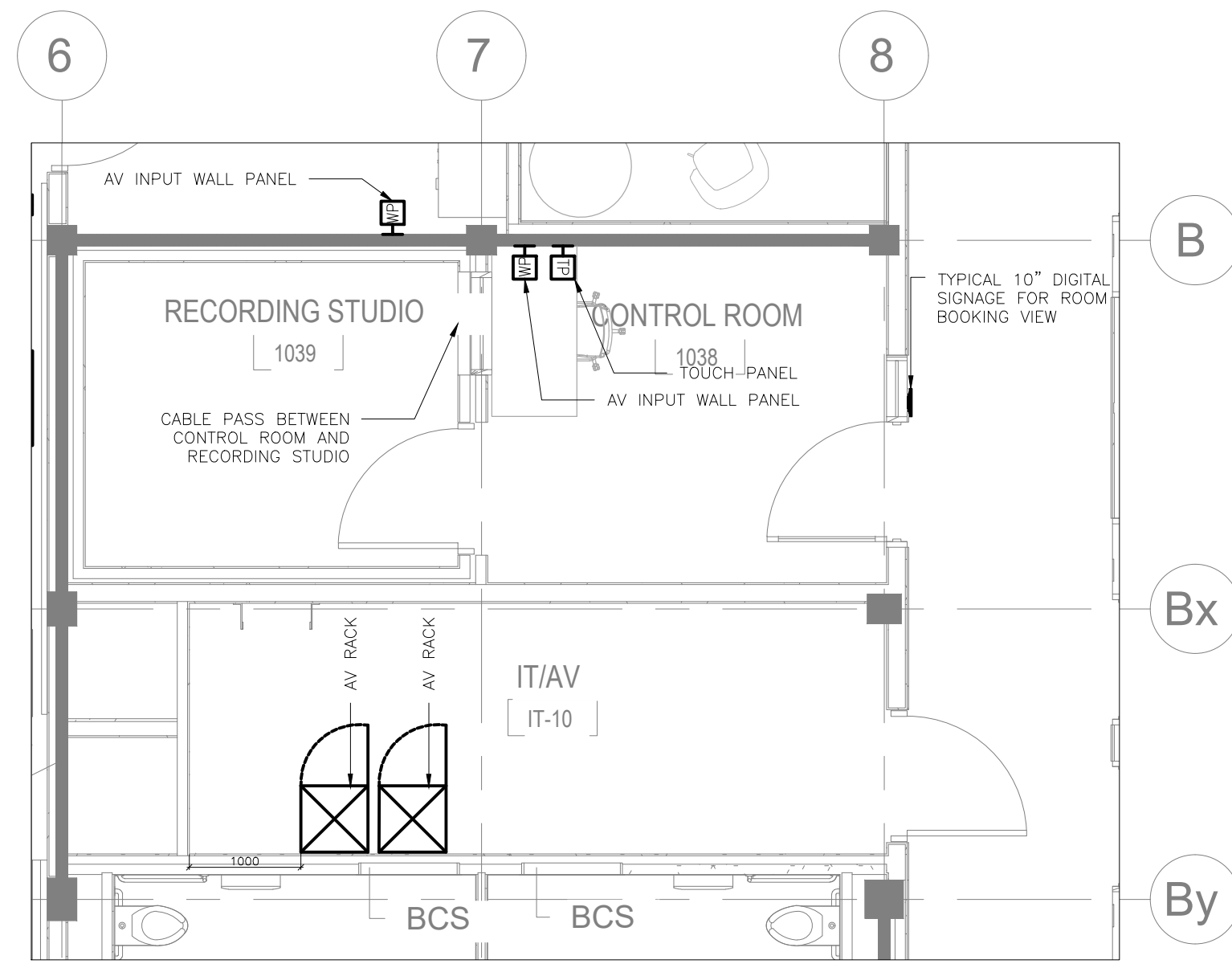
DRAWING TITLE
E-SPORTS ROOM AV SYSTEM LAYOUT

SCALE **N.T.S.**

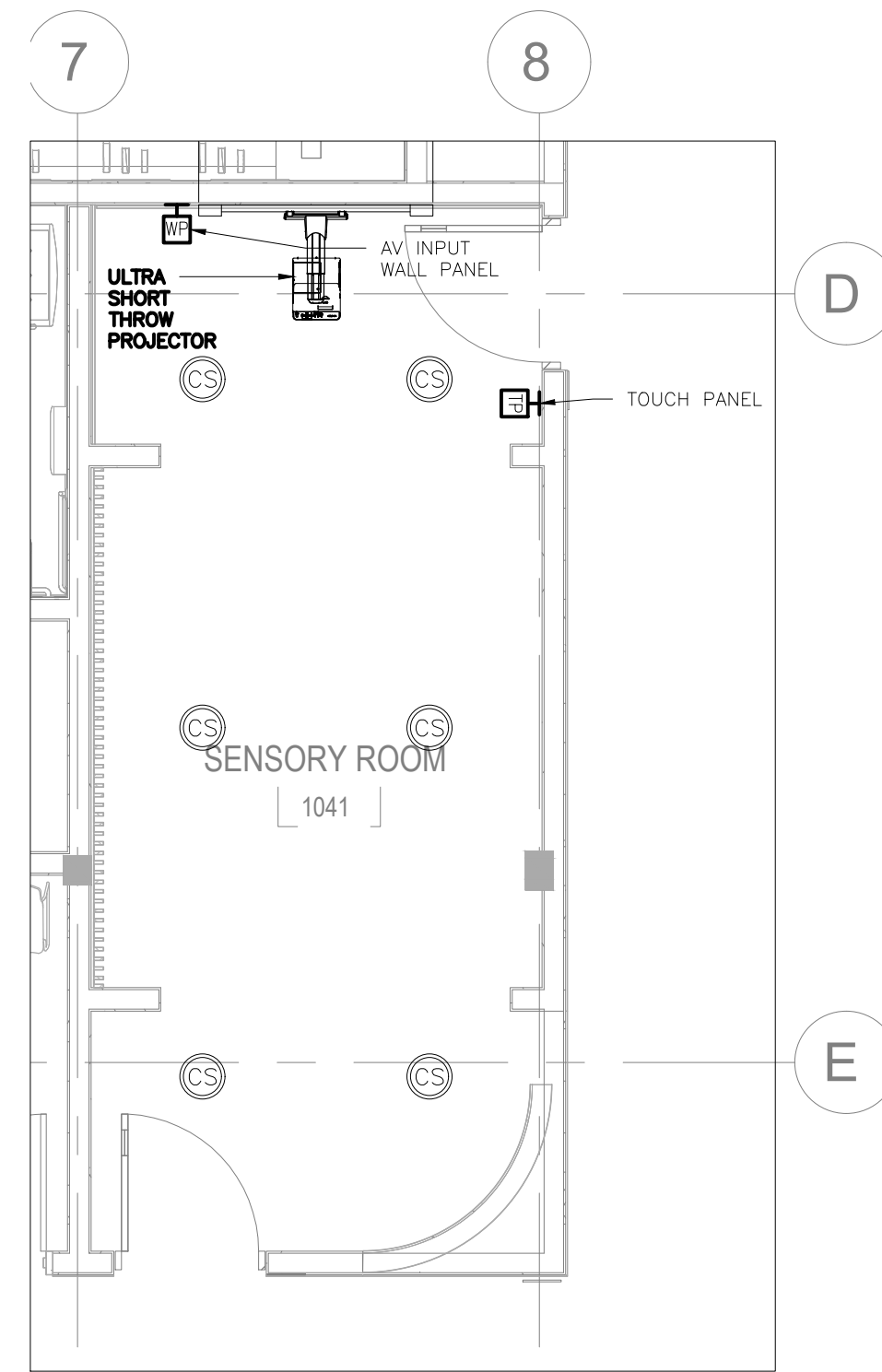
DATE
FEB.29'2024

PROJECT NUMBER
22-144

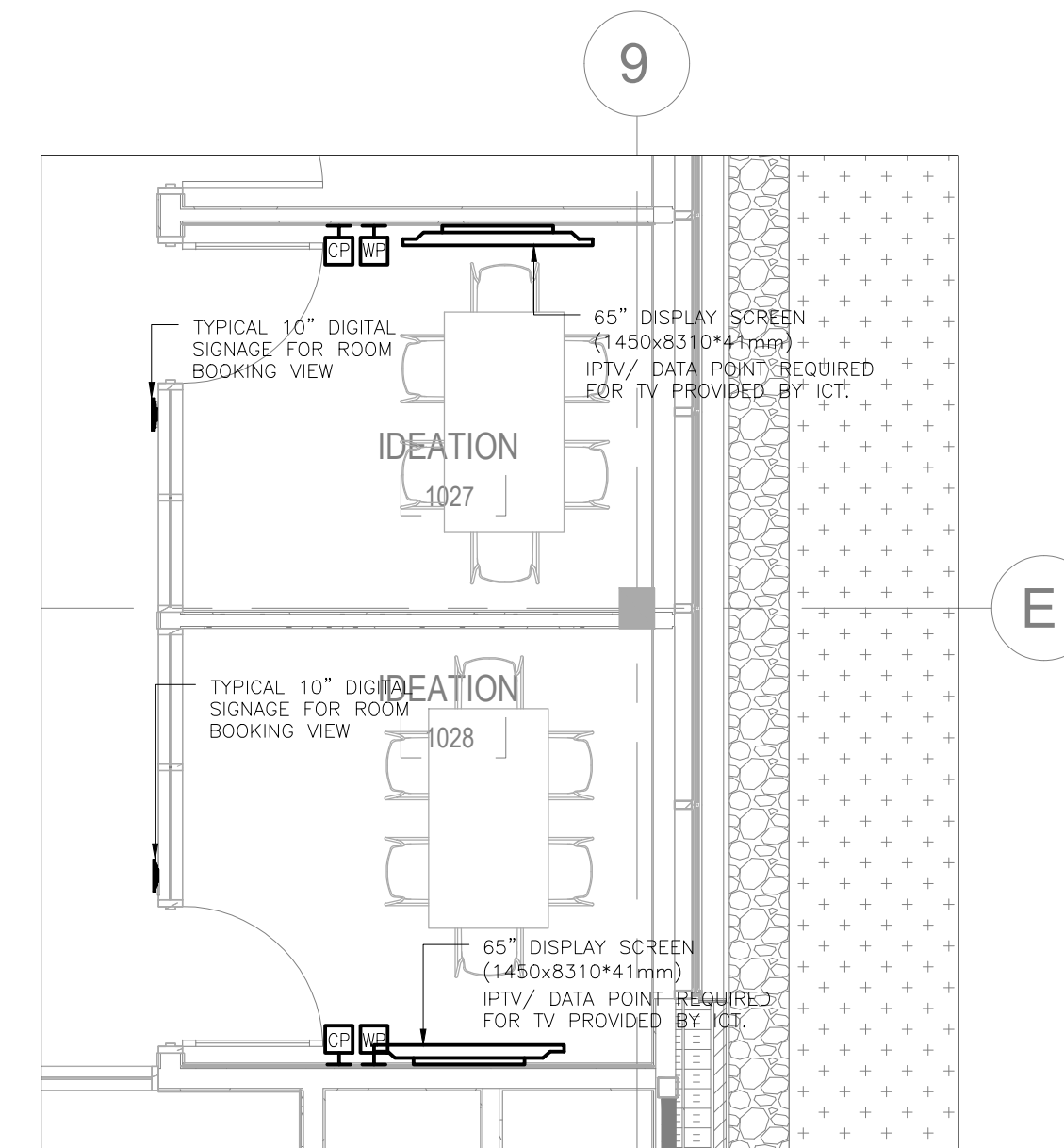
DRAWING NUMBER
E502



IT-AV ROOM AUDIO VISUAL SYSTEM ROOM LAYOUT



SENSORY ROOM AUDIO VISUAL SYSTEM ROOM LAYOUT



IDEATION AUDIO VISUAL SYSTEM ROOM LAYOUT

LEGENDS:

SYMBOL	DESCRIPTION	MOUNTING	POWER REQUIREMENTS
	7000 LUMENS 4K HD PROJECTOR WITH RETRACTABLE PROJECTOR LIFT	CEILING	16 AMP SOCKET X2 ABOVE CEILING 13 AMP X 2 ABOVE CEILING
	100" DIAGONAL MOTORIZED PROJECTION SCREEN 4380mm x 2480mm	CEILING	13 AMP X 2 ABOVE CEILING
	ULTRA SHORT THROW PROJECTOR	WALL MOUNTED	13 AMP X 2 WALL SOCKET
	DISPLAY SCREEN TV (8025 AS PER LAYOUT)	2000mm AFFL (TOP OF SCREEN)	13 AMP X 2 WALL SOCKET
	SOUND BAR WITH INTEGRATED VC CAMERA (BELOW TV)	---	13 AMP X 1 WALL SOCKET
	AV INPUT WALL PANEL	450mm AFFL	13 AMP X 2 WALL SOCKET BERSE PANEL
	TOUCH PANEL	1200mm AFFL	POWER OVER ETHERNET
	CONNECTION PANEL	400mm AFFL	13 AMP X 2 WALL SOCKET BERSE PANEL
	FLOOR BOX	FINISHED FLOOR	13 AMP X 2 SOCKET IN FLOOR BOX
	AV INPUT FB AND POPUP BOX ON TABLE (USING SUSPENDED HANG SYSTEM)	FINISHED FLOOR	CONNECTED TO FLOOR BOX SOCKET
	CONFERENCE MICROPHONE	TABLE MOUNTED	CONNECTED TO FLOOR POP UP BOX SOCKET
	WIRELESS TOUCH PANEL	TABLE MOUNTED	13 AMP X 1 WALL SOCKET OR CONNECTED TO POP UP BOX SOCKET
	VC CAMERA ABOVE TV	---	13 AMP X 1 WALL SOCKET
	CEILING SPEAKER	CEILING	NOT APPLICABLE
	ASSISTIVE LISTENING SYSTEM WITH ALS TRANSMITTER	CEILING	13 AMP X 1 SOCKET ABOVE CEILING
	4000mm AV RACK	FLOOR MOUNTED	32 AMP X 1 INDUSTRIAL SOCKET WALL MOUNT
	150mm WIDE CABLE TRAY	ABOVE FALSE CEILING	NOT APPLICABLE
	EXPOSED ABOVE FALSE CEILING (DIRECTED INSIDE WALL OR FLOOR)	---	NOT APPLICABLE
	DIGITAL MIXER	DESK MOUNTED	13 AMP X 1 WALL SOCKET
	SPEAKER	WALL MOUNTED	NOT APPLICABLE
	MICROPHONE ANTENNA	CEILING	NOT APPLICABLE

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Do not scale this drawing.

REVISIONS AND ISSUES

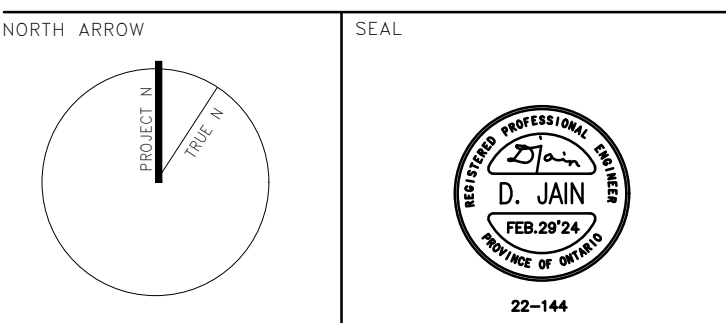
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7.	ISSUED FOR 100% CD SUBMISSION	MAR.31'23
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9.	ISSUED FOR PERMIT	JULY.28'23
10.	ISSUED FOR ADDENDUM#2	FEB.29'24



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Mississauga, Ontario, L5N 6P8
Tel: 905 285 9900, Fax: 905 567 5246
Email : mail@jainconsultants.com

- DRAWING NOTES:**
1. 'BY OTHERS' WHEREVER APPEARING ON THE DRAWING MEANS THAT THE EQUIPMENT/DEVICE/POWER/DATA OUTLET SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
 2. COORDINATE WITH SYSTEM SUPPLIER & PROVIDE ALL CONDUITS, COMMUNICATION CABLES, & POWER, FLOOR BOXES, ROUGH-INS, POWER, DATA OUTLETS, MATERIAL & LABOR ETC. SHOWN ON THIS DRAWING FOR FULLY OPERATIONAL SYSTEM.

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PUBLIC WORKS & ENGINEERING
2 Wellington Street West, City Hall - West Tower 8th floor
Brampton ON, L6Y 4R2
T: 905 874 2000



PROJECT TITLE
CENTURY GARDENS COMMUNITY YOUTH HUB

Project Address
342 VODDEN ST. E BRAMPTON ONTARIO L6V1N4

DRAWING TITLE
I.T.-AV, SENSORY & IDEATION ROOM AV SYSTEM LAYOUT

SCALE
N.T.S.

DATE
FEB.29'2024

PROJECT NUMBER
22-144

DRAWING NUMBER
E503

LEGENDS:

SYMBOL	DESCRIPTION	MOUNTING	POWER REQUIREMENTS
	7000 LUMENS 4K 40 PROJECTOR WITH RETRACTABLE PROJECTOR LIFT	CEILING	15 AMP SOCKET TO ABOVE CEILING 15 AMP X 2 ABOVE CEILING
	10P DIAGONAL MOTORIZED PROJECTION SCREEN 4300MM X 2800MM	CEILING	15 AMP X 2 ABOVE CEILING
	ULTRA SHORT THROW PROJECTOR	WALL MOUNTED	15 AMP X 2 WALL SOCKET
	DISPLAY SCREEN / TV (SIZE AS PER LAYOUT)	2000MM AFL (TOP OF SCREEN)	15 AMP X 2 WALL SOCKET
	SOUND BAR WITH INTEGRATED VC CAMERA (BELOW TV)	---	15 AMP X 1 WALL SOCKET
	AV INPUT WALL PANEL	400MM AFL	15 AMP X 2 WALL SOCKET BEHIND PANEL
	TOUCH PANEL	1000MM AFL	POWER OVER ETHERNET
	CONNECTION PANEL	400MM AFL	15 AMP X 2 WALL SOCKET BEHIND PANEL
	FLOOR BOX	FINISHED FLOOR	15 AMP X 2 SOCKET IN FLOOR BOX
	AV INPUT FB AND POPUP BOX ON TABLE (1x40MM, 1x50MM-AUDIO, 1xLAN, 1x3.5MM)	FINISHED FLOOR	CONNECTED TO FLOOR BOX SOCKET
	CONFERENCE MICROPHONE	TABLE MOUNTED	CONNECTED TO FLOOR POP UP BOX SOCKET
	WIRELESS TOUCH PANEL	TABLE MOUNTED	15 AMP X 1 WALL SOCKET OR CONNECTED TO POP UP BOX SOCKET
	VC CAMERA ABOVE TV	---	15 AMP X 1 WALL SOCKET
	CEILING SPEAKER	CEILING	NOT APPLICABLE
	ASSISTIVE LISTENING SYSTEM WITH ALS TRANSMITTER	CEILING	15 AMP X 1 SOCKET ABOVE CEILING
	600x600MM AV RACK	FLOOR MOUNTED	30 AMP X 1 INDUSTRIAL SOCKET WALL MOUNT
	150MM WIDE CABLE TRAY	ABOVE FALSE CEILING	NOT APPLICABLE
	CONDUITS	EXPOSED ABOVE FALSE CEILING EMBEDDED INSIDE WALL OR FLOOR	NOT APPLICABLE
	DIGITAL MIXER	DESK MOUNTED	15 AMP X 1 WALL SOCKET
	MICROPHONE ANTENNA	CEILING	NOT APPLICABLE

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.
Do not scale this drawing.

REVISIONS AND ISSUES

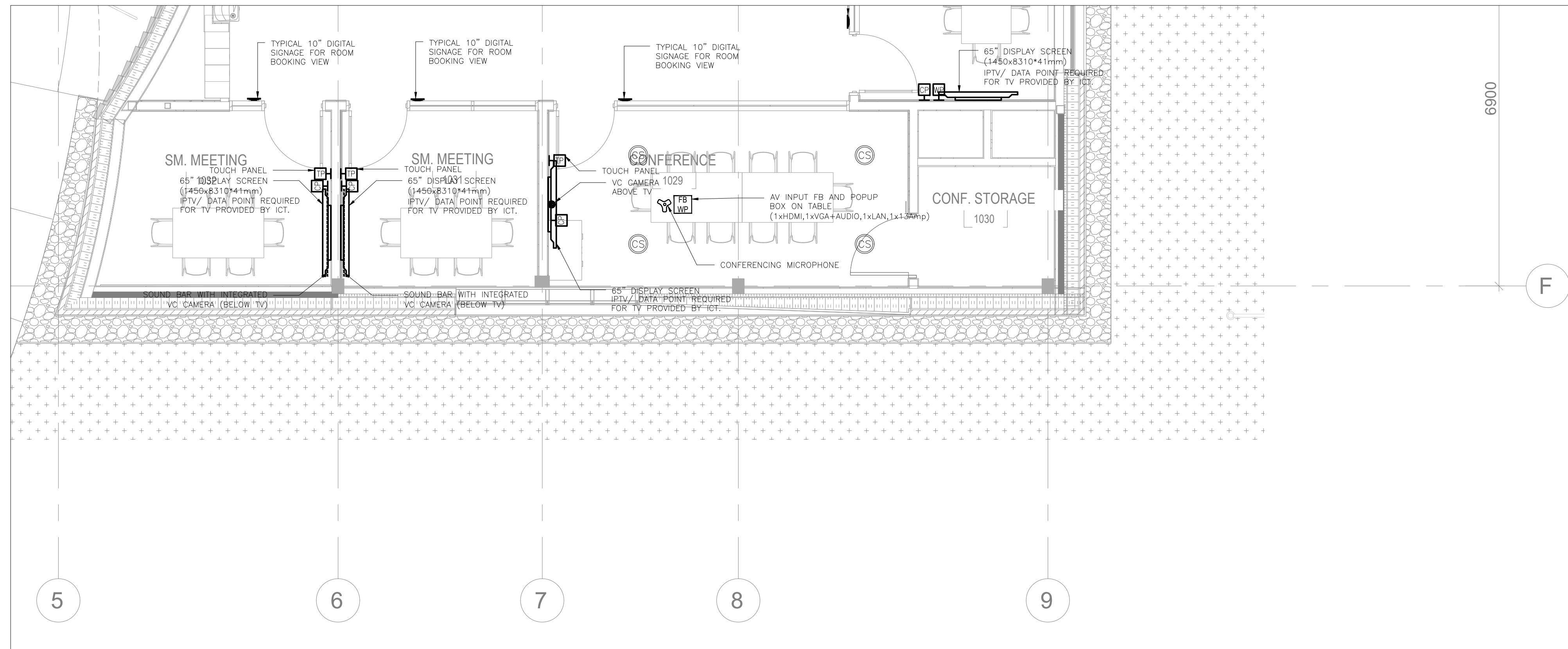
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Jain

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SM. MEETING ROOM & CONFERENCE ROOM AUDIO VISUAL SYSTEM ROOM LAYOUT

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Brampton ON, L6Y 4R2
T: 905 874 2000

NORTH ARROW

SEAL

22-144

PROJECT TITLE
CENTURY GARDENS COMMUNITY YOUTH HUB

Project Address
342 VODDEN ST. E BRAMPTON ONTARIO L6V1N4

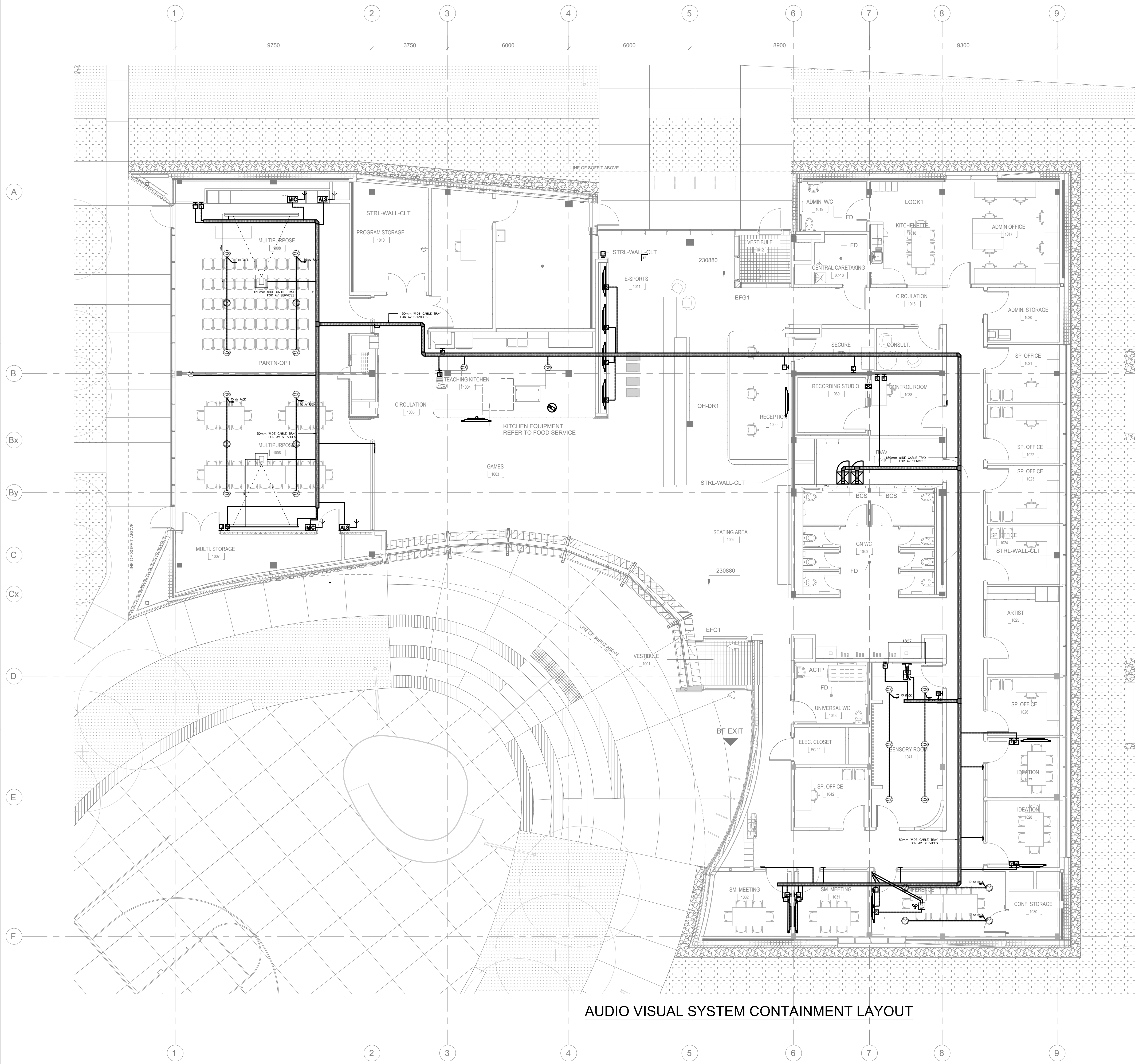
DRAWING TITLE
SM. MEETING & CONFERENCE ROOM AV SYSTEM LAYOUT

SCALE
N.T.S.

DATE
FEB.29'2024

PROJECT NUMBER
22-144

DRAWING NUMBER
E504



AUDIO VISUAL SYSTEM CONTAINMENT LAYOUT

LEGENDS:

SYMBOL	DESCRIPTION	MOUNTING	POWER REQUIREMENTS
	700 LUMENS 4K PROJECTOR WITH RETRACTABLE PROJECTOR LIFT	CEILING	16 AMP SOCKET 42 ABOVE CEILING 13 AMP X 2 ABOVE CEILING
	187 DIAGONAL MOTORIZED PROJECTION SCREEN 4880mm x 2680mm	CEILING	13 AMP X 2 ABOVE CEILING
	ULTRA SHORT THROW PROJECTOR	WALL MOUNTED	13 AMP X 2 WALL SOCKET
	DISPLAY SCREEN / TV (SIZE AS PER LAYOUT)	2000mm AFPL (TOP OF SCREEN)	13 AMP X 2 WALL SOCKET
	SOUND BAR WITH INTEGRATED VC CAMERA (BELOW TV)	---	13 AMP X 1 WALL SOCKET
	AV INPUT WALL PANEL	450mm AFPL	13 AMP X 2 WALL SOCKET BESIDE PANEL
	TOUCH PANEL	1200mm AFPL	POWER OVER ETHERNET
	CONNECTION PANEL	450mm AFPL	13 AMP X 2 WALL SOCKET BESIDE PANEL
	FLOOR BOX	FINISHED FLOOR	13 AMP X 2 SOCKET IN FLOOR BOX
	AV INPUT PB AND POPUP BOX ON TABLE (4000mm x 1400mm x 140mm x 130mm)	FINISHED FLOOR	CONNECTED TO FLOOR BOX SOCKET
	CONFERENCING MICROPHONE	TABLE MOUNTED	CONNECTED TO FLOOR BOX SOCKET
	WIRELESS TOUCH-PANEL	TABLE MOUNTED	13 AMP X 1 WALL SOCKET OR CONNECTED TO FLOOR BOX SOCKET
	CAMERA ABOVE TV	---	13 AMP X 1 WALL SOCKET
	CEILING SPEAKER	CEILING	NOT APPLICABLE
	ASSISTIVE LISTENING SYSTEM WITH ALS TRANSMITTER	CEILING	13 AMP X 1 SOCKET ABOVE CEILING
	600x600mm AV RACK	FLOOR MOUNTED	32 AMP X 1 INDUSTRIAL SOCKET WALL MOUNT
	150mm WIDE CABLE TRAY	ABOVE FALSE CEILING	NOT APPLICABLE
	CONDUITS	EXPOSED ABOVE FALSE CEILING EMBEDDED INSIDE WALL OR FLOOR	NOT APPLICABLE
	DIGITAL MIXER	DESK MOUNTED	13 AMP X 1 WALL SOCKET
	SPEAKER	WALL MOUNTED	NOT APPLICABLE
	MICROPHONE ANTENNA	CEILING	NOT APPLICABLE

DRAWING NOTES:

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Do not scale this drawing.

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NORTH ARROW

SEAL

PROJECT TITLE
CENTURY GARDENS COMMUNITY YOUTH HUB

Project Address
342 VODDEN ST. E BRAMPTON ONTARIO L6V1N4

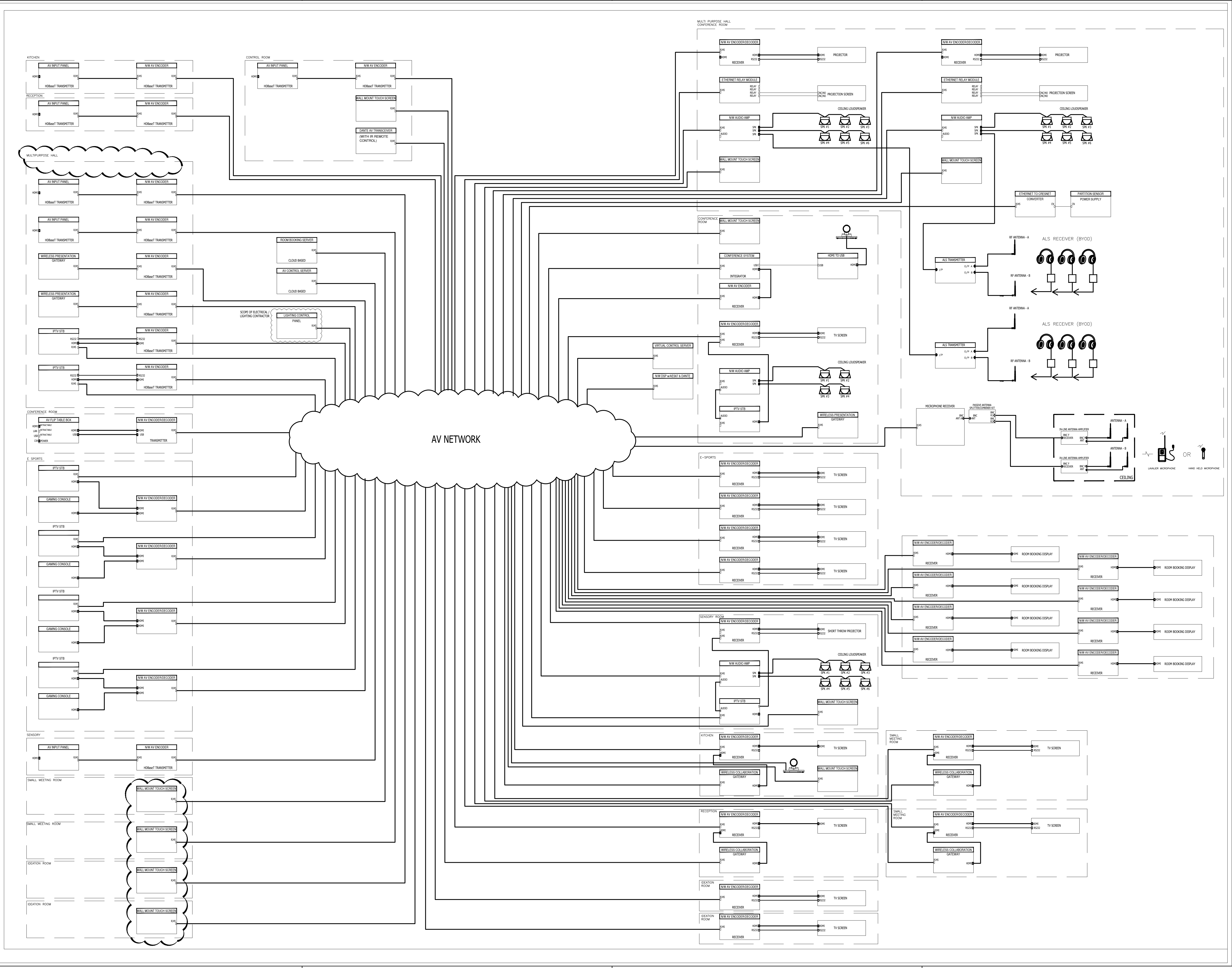
DRAWING TITLE
AUDIO VISUAL SYSTEM CONTAINMENT LAYOUT OVERALL

SCALE
1:100

DATE
FEB.29'2024

PROJECT NUMBER
22-144

DRAWING NUMBER
E505

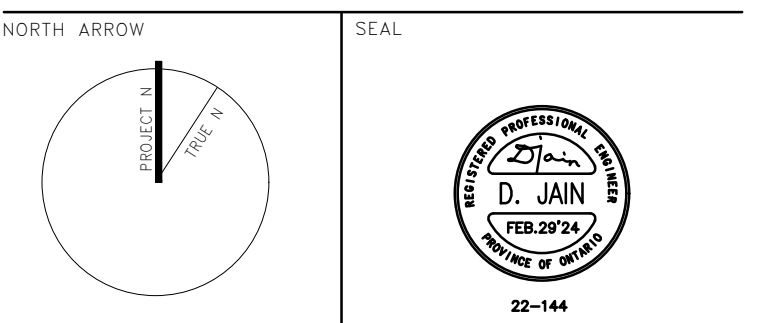


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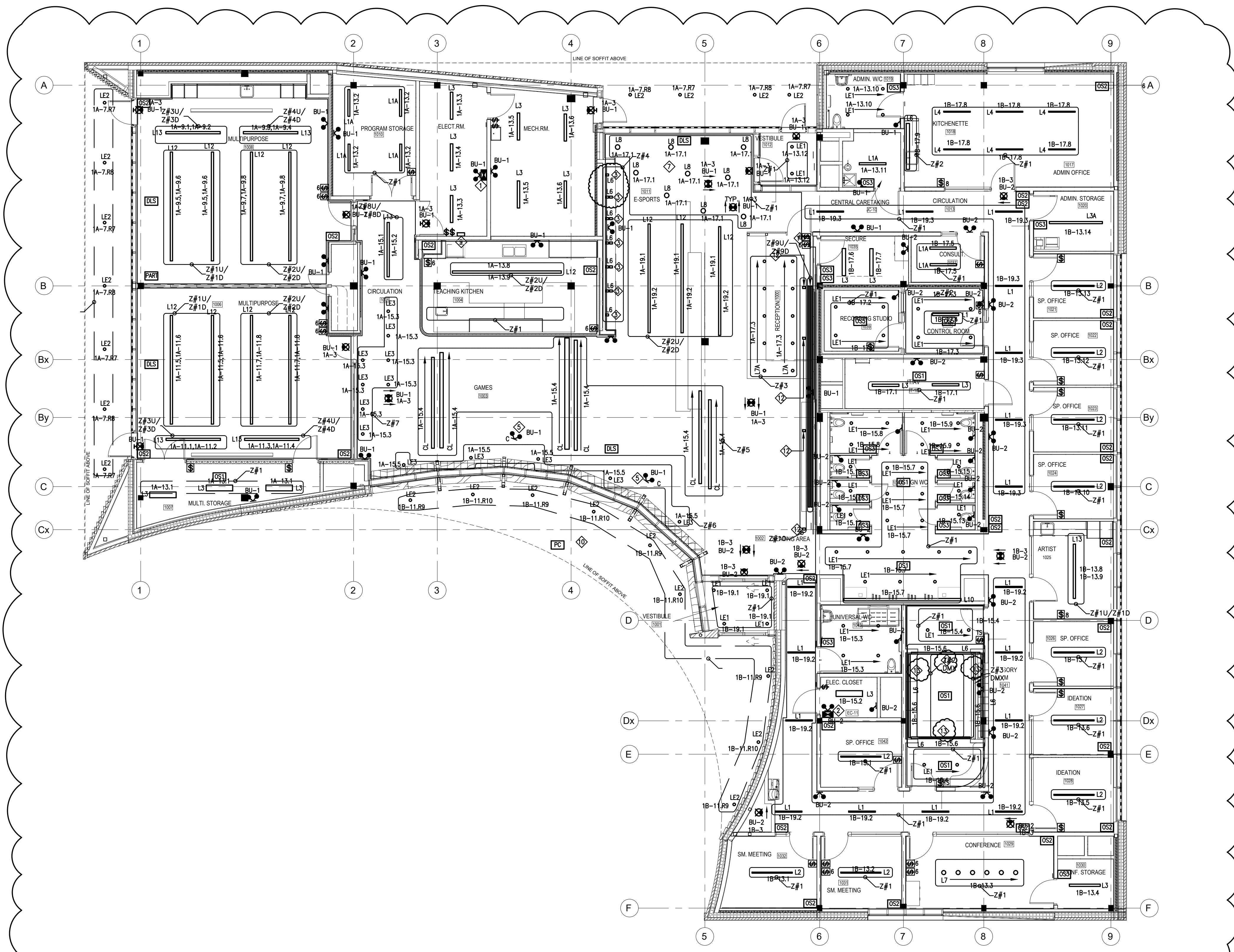


PROJECT TITLE
CENTURY GARDENS COMMUNITY YOUTH HUB

Project Address
342 VODDEN ST. E BRAMPTON ONTARIO L6V1N4

DRAWING TITLE
AUDIO VISUAL SYSTEM SCHEMATIC

SCALE N.T.S.
DATE **FEB.29'2024**
PROJECT NUMBER **22-144**
DRAWING NUMBER **E508**



DRAWING NOTES:

- 1 TO 7: RESERVED.
- ◆ EACH LIGHTING CONTROL ZONE (AS INDICATED BY Z#X, NOTE Z#XU/Z#XD INDICATES SEPARATE UPLIGHT/DOWNLIGHT CONTROL) TO BE PROVIDED WITH NETWORKED CRESTRON DISTRIBUTED LOAD CONTROLLER. DISTRIBUTED DEVICES TO BE INSTALLED IN ACCESSIBLE CEILING SPACE, WHERE APPROPRIATE CEILING SPACE IS NOT AVAILABLE FOR MOUNTING DEVICES, PLACE DEVICES IN ADJACENT ACCESSIBLE CEILING SPACE OR NEAREST SERVICE ROOM/CLOSET OR PROVIDE APPROPRIATE CEILING ACCESS POINT TO SUIT SITE CONDITIONS. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
9. ALL PROPOSED CEILING/WALL MOUNT SENSORS ARE SUITABLE FOR MOUNTING HEIGHTS OF 8-12' AFF. SENSORS TO BE PROVIDED WITH STEM MOUNTING/JUNCTION BOXES, AS REQUIRED. COORDINATE EXACT LOCATIONS ON SITE AND WITH ARCHITECTURAL FINISHES.
- ◆ INDICATES EXTERIOR LIGHTING CONTROL ZONE CONTROLLED VIA NETWORKED LIGHTING RELAY PANEL. REFER TO LIGHTING CONTROL RISER DIAGRAM AND SEQUENCE OF OPERATIONS FOR FURTHER INFORMATION.
- ◆ INDICATES EXTERIOR ROOF MOUNTED GLS-LOCT PHOTOCELL AS PART OF LIGHTING CONTROL SYSTEM C/W INTERNAL SNOW/ICE MELT HEATER. COORDINATE INSTALLATION WITH MANUFACTURER'S (CRESTRON) RECOMMENDATIONS. EXACT MOUNTING LOCATION TO BE CONFIRMED ON SITE.
12. COORDINATE WITH SYSTEM SUPPLIER FOR LOCATIONS & QUANTITIES OF ALL THE DEVICES OF LIGHTING CONTROLS (SWITCHES, TOUCH SCREENS, OCCUPANCY SENSORS, POWER PACKS AND ALL THE OTHER CONTROL DEVICES REQUIRED FOR LIGHTING CONTROLS).
13. THIS DRAWING SHALL BE USED ONLY FOR LIGHTING CONTROLS & LIGHTING ZONES. REFER DWGS. E101 & E201 FOR ACTUAL LIGHTING LAYOUTS & CIRCUITING.

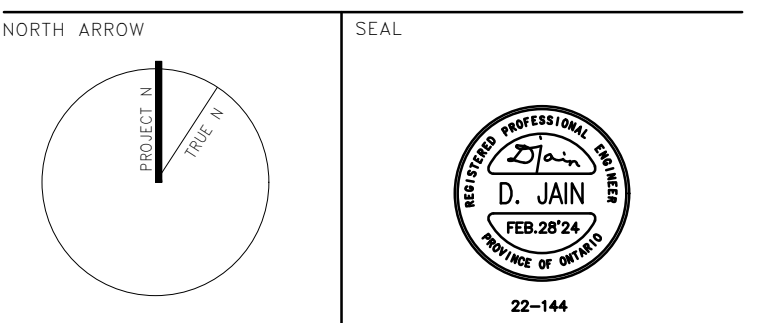
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PROJECT TITLE
CENTURY GARDENS COMMUNITY YOUTH HUB

Project Address
 342 VODDEN ST. E BRAMPTON ONTARIO L6V1N4

DRAWING TITLE
LIGHTING CONTROL SYSTEM

SCALE **1:100**

DATE **FEB.28'2024**

PROJECT NUMBER **22-144**

DRAWING NUMBER **E703**

**MECHANICAL ADDENDUM MA-2
CENTURY GARDENS COMMUNITY YOUTH HUB
342 VODDEN STREET EAST
BRAMPTON, ON
PROJECT NO.: 2205
FEBRUARY 29, 2023**

The following document is hereby made a part of the Contract Documents.

The following revisions and/or additions shall be made to Drawings and/or specifications and the cost shall be included in Tender Price.

REVISION TO SPECIFICATIONS

SECTION 22 13 40 – Rain Water Retention System

1. Revise title to read: “Rain Water Harvesting / Rain Water Retention System”

3.1 Installation

1. In first line of Paragraph .6, delete ‘fire’.
2. In Paragraph .7, revise first line to read; “Provide pump discharge line from Cistern to mechanical room, system treatment and to irrigation supply connection outside of the building as shown drawing. Also provide.....”

SECTION 25 90 01 – SEQUENCE OF OPERATION

3.1 – Sequence of Operation

1. In Paragraph .2 – Energy Recovery Ventilator, add new subparagraph .9 as follows:

“.9 ECM Control of the ERV: The motorized damper, linked to a CO2 sensor within the fresh air duct branches from the HRU, will regulate its opening and closing based on the CO2 levels detected either in the room or within the return air duct connected to the heat pump. Additionally, pressure sensors installed in the supply duct will dynamically adjust the speed of the ERV fan. Alternatively, where 1 motorized damper is connected to multiple CO2 sensors as a single heat pump feeds different room, an average value of all CO2 sensors shall be considered to modulate that Motorized damper of the fresh air duct feeding that unit through the BAS.”

REVISION TO DRAWINGS

DRAWING M102

SITE PLAN -1

1. Provide two Purain Filters to two 300mm inlets pipes from catch basins to Rain Water Harvesting Cistern. See Dwg CS1 for more details. Pipe overflow from Purain Filters to cistern overflow system.
2. Delete ‘1/M-100’ under the title Site Plan.

END

Addendum 4

1. GENERAL

- .1 This Addendum shall be attached to the front of the specifications and shall be brought to the attention of all concerned.
- .2 This Addendum shall form an integral part and shall be read in conjunction with Specifications and Drawings for the Century Gardens Community Youth Hub. This Addendum shall take precedence over all requirements to the aforementioned specifications with which it may prove to be at variance.
- .3 Receipt of this Addendum shall be acknowledged on the Bid Form. Failure to do so may subject the Proponent to disqualification
- .4 This Addendum Contains:
 - .1 Mechanical Addendum MA-3, Dated March 7, 2024. 4 Pages – Includes: 1 full sizes sheet (M-205)
 - .2 Electrical Addendum EA-3, Dated March 7, 2024. 2 Pages

**ELECTRICAL ADDENDUM EA-3
CENTURY GARDENS COMMUNITY YOUTH HUB
342 VODDEN STREET EAST
BRAMPTON, ON
PROJECT NO.: 2205
MARCH 7, 2023**

The following document is hereby made a part of the Contract Documents.

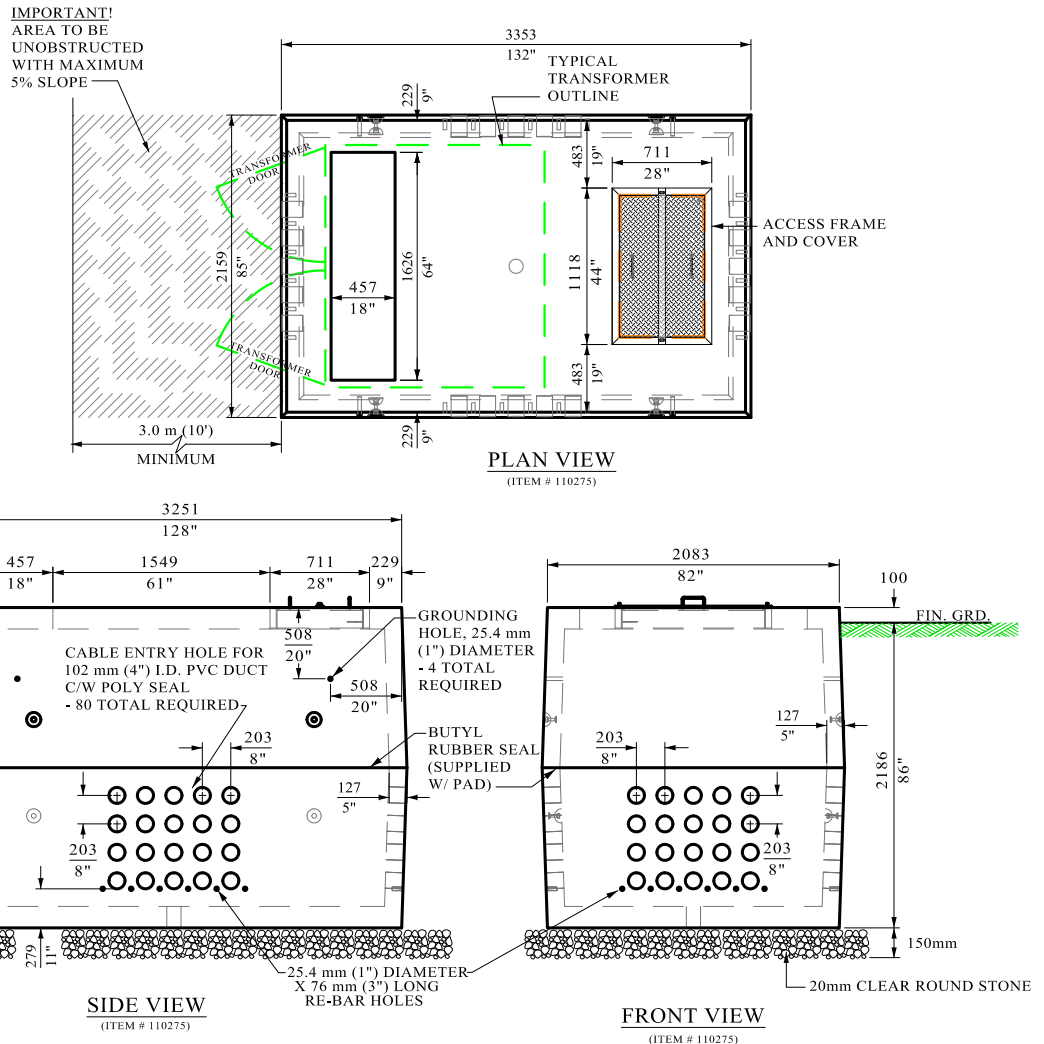
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REVISION TO DRAWINGS

DRAWING E400

1. Revise drawing to add Detail Number 2, which shall be titled as "Two Piece Precast Foundation for 3ph Padmount".
2. Detail 2 shall include the attached Hydro's detail # 37-219.
3. Add Note 1 for detail 2 as follows: "Electrical Contractor to provide the two piece precast foundation for the 3ph pad mounted transformer as per hydro's detail 37-219".

END



NOTES:

1. ALL DIMENSIONS SHOWN IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. FOUNDATION TO BE PRECAST CONCRETE PAD. MANUFACTURER WILL DELIVER THE UNIT TO THE SITE.
3. CONCRETE SHALL BE MINIMUM 30 MPa, AIR -ENTRAINED AND SLOW SLUMP
4. TO BE CONSTRUCTED AS PER CSA A23.1 AND TESTED AS PER CSA A23.2 (LATEST EDITION).
5. CABLE OPENING ON TOP AND SIDE CABLE ENTRY HOLES SHALL HAVE SMOOTH FINISHED SURFACES AND EDGES.
6. COMPLETE THE EXCAVATION AND PROVIDE BEDDING CONSISTING OF MINIMUM 150mm LAYER OF 20mm CLEAR ROUND STONE.
7. PAD LOCATION TO BE KEPT CLEAR OF OBSTRUCTION FOR ACCESS BY ALECTRA UTILITIES PERSONNEL OR EQUIPMENT.
8. TIE CABLE DUCTS INTO THE WALL OF FOUNDATION AT KNOCKOUTS AS SPECIFIED BY ALECTRA UTILITIES PERSONNEL. INSTALL BELL ENDS ON PVC DUCTS.
9. REMOVE DRAIN KNOCKOUT IN FLOOR TO ALLOW FOR DRAINAGE.
10. CONTRACTOR WILL BE RESPONSIBLE FOR SEALING DUCT ENDS.
11. POSITION LID OPENING SO THAT TRANSFORMER DOOR IS NOT FACING A BUILDING AND THE AREA IN FRONT OF THE TRANSFORMER IS OBSTRUCTION FREE.
12. REFER TO STD. 37-217 FOR INSTALLATION OF GUARD POST.
13. REFER TO STD. 41-11 FOR GROUNDING DETAIL.
14. REFER TO STD. 37-380 FOR GUARD POST DETAIL.
15. INDICATE WEIGHT ON EACH SECTION. APPROXIMATE WEIGHT (COMBINED TOTAL)
= 13,160kg / 29,000 lbs.

APPROVED IN ACCORDANCE WITH REGULATION 22/04

DATE	REVISION	CKHD	APPVD
22-11-04	- UPDATED STANDARD TITLE. - UPDATED NOTE 15. - ADDED ITEM NUMBER. - UPDATED NUMBER OF CABLE ENTRY HOLES.	A. G.	AD

CHECKED: R. V.

APPROVED: *[Signature]*

**TWO PIECE PRE-CAST CONCRETE
FOUNDATION FOR 3-PHASE PAD MOUNTED
750 kVA TO 3 MVA TRANSFORMER**

**MECHANICAL ADDENDUM MA-3
CENTURY GARDENS COMMUNITY YOUTH HUB
342 VODDEN STREET EAST
BRAMPTON, ON
PROJECT NO.: 2205
MARCH 7, 2023**

The following document is hereby made a part of the Contract Documents.

The following revisions and/or additions shall be made to Drawings and/or specifications and the cost shall be included in Tender Price.

REVISION TO SPECIFICATIONS

SECTION 23 74 00 – MAKE-UP AIR UNITS

2.1 – Make-Up Air Units

1. In Paragraph .1 – Acceptable Manufacturers, revise as follows:

“.1 Acceptable Manufacturers
 .1 Trane
 .2 Engineered Air
 .3 Haakon
 .4 Ingenia
 .5 Aaon”

SECTION 23 81 40 – HEAT PUMPS

1.2 – Related Sections

1. Add new Items as follows:

“.4 Section 25 90 00: Building Management System
.5 Section 25 90 01: Sequence of Operation”

2.1 – Heat Pumps

1. In Paragraph .1 revise “Florida” to read “Trane”.
2. In Paragraph .24 – Alternate Equipment, delete “.6 Trane”.
3. In Paragraph .24 – Alternate Equipment, add “.6 Florida”.
4. In Paragraph .7, revise first line to read; “Provide pump discharge line from Cistern to mechanical room, system treatment and to irrigation supply connection outside of the building as shown drawing. Also provide.....”

SECTION 23 83 15 – EARTH LOOP SYSTEM

2.5 – Unburied Earthloop Piping

1. Add new Subsection 2.5 – Unburied Earthloop Piping as follows:

“2.5 UNBURIED EARTHLOOP PIPING

- .1 Provide supply and return headers of size shown complete with shut-off and balancing valves.
- .2 Conversion to steel pipe shall be by flanged polyethylene to steel pipe fittings of appropriate size. Make final connection to each header inlet/outlet.
- .3 Insulate interior polyethylene earthloop piping with 19 mm Armaflex II or Acwil "Therma-Cel" flexible foamed elastomeric insulation with fittings and valves insulated to match. Interior insulation shall be left ready for painting by another Section. Insulation must be sealed to adjoining insulation over polyethylene pipe.”

REVISION TO DRAWINGS

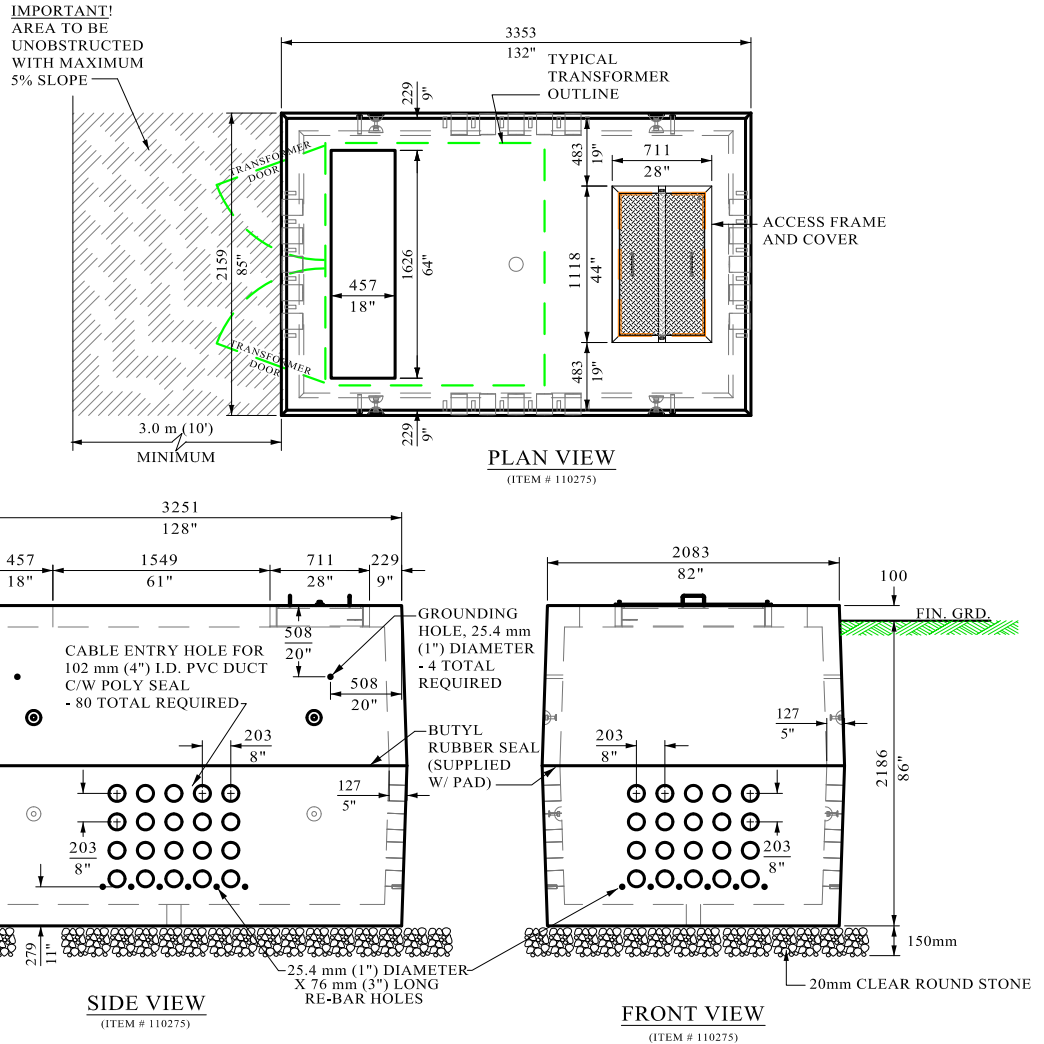
DRAWING M101

1. Provide S-2 sink in Artist 1025 as shown on #4 of drawing A-902. Provide all services to sink from mains in corridor.

DRAWING M205

1. Updated schedules for MAU and heat pumps are reflected in the attached M205 drawings.

END



NOTES:

1. ALL DIMENSIONS SHOWN IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. FOUNDATION TO BE PRECAST CONCRETE PAD. MANUFACTURER WILL DELIVER THE UNIT TO THE SITE.
3. CONCRETE SHALL BE MINIMUM 30 MPa, AIR -ENTRAINED AND SLOW SLUMP
4. TO BE CONSTRUCTED AS PER CSA A23.1 AND TESTED AS PER CSA A23.2 (LATEST EDITION).
5. CABLE OPENING ON TOP AND SIDE CABLE ENTRY HOLES SHALL HAVE SMOOTH FINISHED SURFACES AND EDGES.
6. COMPLETE THE EXCAVATION AND PROVIDE BEDDING CONSISTING OF MINIMUM 150mm LAYER OF 20mm CLEAR ROUND STONE.
7. PAD LOCATION TO BE KEPT CLEAR OF OBSTRUCTION FOR ACCESS BY ALECTRA UTILITIES PERSONNEL OR EQUIPMENT.
8. TIE CABLE DUCTS INTO THE WALL OF FOUNDATION AT KNOCKOUTS AS SPECIFIED BY ALECTRA UTILITIES PERSONNEL. INSTALL BELL ENDS ON PVC DUCTS.
9. REMOVE DRAIN KNOCKOUT IN FLOOR TO ALLOW FOR DRAINAGE.
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11. POSITION LID OPENING SO THAT TRANSFORMER DOOR IS NOT FACING A BUILDING AND THE AREA IN FRONT OF THE TRANSFORMER IS OBSTRUCTION FREE.
12. REFER TO STD. 37-217 FOR INSTALLATION OF GUARD POST.
13. REFER TO STD. 41-11 FOR GROUNDING DETAIL.
14. REFER TO STD. 37-380 FOR GUARD POST DETAIL.
15. INDICATE WEIGHT ON EACH SECTION. APPROXIMATE WEIGHT (COMBINED TOTAL)
= 13,160kg / 29,000 lbs.

APPROVED IN ACCORDANCE WITH REGULATION 22/04

DATE	REVISION	CKHD	APPVD
22-11-04	- UPDATED STANDARD TITLE. - UPDATED NOTE 15. - ADDED ITEM NUMBER. - UPDATED NUMBER OF CABLE ENTRY HOLES.	A. G.	AD

CHECKED: R. V.

APPROVED: [Signature]

**TWO PIECE PRE-CAST CONCRETE
FOUNDATION FOR 3-PHASE PAD MOUNTED
750 kVA TO 3 MVA TRANSFORMER**