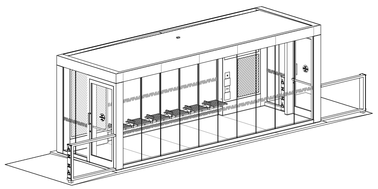
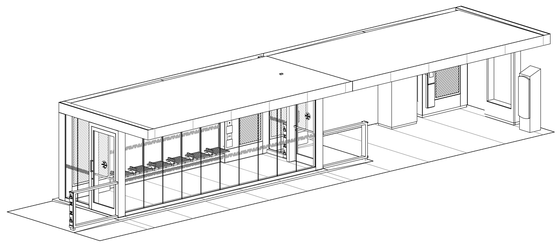
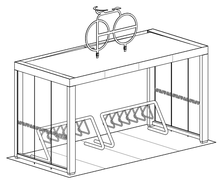


SHELTER TYPE 1 - RAIL LINE STATION PASSENGER SHELTER

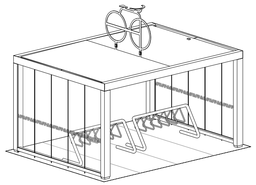


SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER

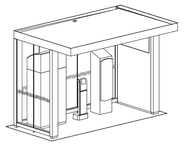
SHELTER TYPE 3 - ON-STREET BUS PASSENGER SHELTER



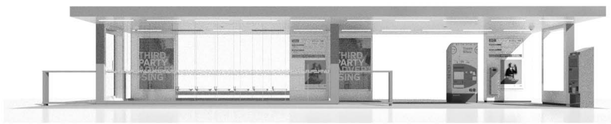
SHELTER TYPE 4 - SMALL BIKE SHELTER



SHELTER TYPE 5 - LARGE BIKE SHELTER



SHELTER TYPE 6 - AMENITIES SHELTER



GO SHELTER DESIGNS

GO-SHELTER PASSENGER DW-2016-Rev0

METROLINX

gh3
gh3
55 OSSINGTON AVE. SUITE 100, M6J 2Y9 416.915.1791

2015 02 04

ARCHITECTURAL SHEET LIST

SHEET NUMBER	SHELTER TYPE	SHEET NAME
A1.0	SHELTER TYPE 1 - RAIL LINE STATIONS PASSENGER SHELTER	3D ISOMETRIC VIEWS
A1.1	SHELTER TYPE 1 - RAIL LINE STATIONS PASSENGER SHELTER	PLANS
A1.2	SHELTER TYPE 1 - RAIL LINE STATIONS PASSENGER SHELTER	ELEVATIONS
A1.3	SHELTER TYPE 1 - RAIL LINE STATIONS PASSENGER SHELTER	SECTIONS
A2.0a	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	3D ISOMETRIC VIEWS
A2.0b	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	3D STRUCTURAL ISOMETRIC VIEWS
A2.1	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	PLANS
A2.2	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	REFLECTED CEILING PLAN
A2.3	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	ELEVATIONS
A2.4	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	SECTIONS
A2.5	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	SECTIONS
A3.1	SHELTER TYPE 3 - ON-STREET BUS PASSENGER SHELTER	PLANS AND SECTIONS
A3.2	SHELTER TYPE 3 - ON-STREET BUS PASSENGER SHELTER	ELEVATIONS
A4.1	SHELTER TYPE 4 - SMALL BIKE SHELTER	PLANS
A4.2	SHELTER TYPE 4 - SMALL BIKE SHELTER	ELEVATIONS AND SECTIONS
A5.1	SHELTER TYPE 5 - LARGE BIKE SHELTER	PLANS
A5.2	SHELTER TYPE 5 - LARGE BIKE SHELTER	ELEVATIONS AND SECTIONS
A6.1	SHELTER TYPE 6 - AMENITIES SHELTER	PLANS, ELEVATIONS, AND SECTIONS
A9.1	GENERAL	ROOF AND GLAZING DETAILS
A9.2	GENERAL	INFO / SERVICE WALL A DETAILS
A9.3	GENERAL	INFO / SERVICE WALL A DETAILS
A9.4	GENERAL	INFO / SERVICE WALL B DETAILS
A9.5	GENERAL	ADDITIONAL INFO / SERVICE WALL DETAILS
A9.6	GENERAL	DOOR FRAME DETAILS
A9.7	GENERAL	SWING GUARD AND OPEN FRAME DETAILS
A9.8	GENERAL	FURNISHINGS DETAILS

ELECTRICAL SHEET LIST

SHEET NUMBER	SHELTER TYPE	SHEET NAME
E0.1	GENERAL	ELECTRICAL SYMBOLS LEGEND
E0.2	GENERAL	ELECTRICAL INTERCONNECTION DIAGRAM
E1.1	SHELTER TYPE 1 - RAIL LINE STATIONS PASSENGER SHELTER	POWER AND LIGHTING PLANS
E2.1	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	POWER AND LIGHTING PLANS
E2.2	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	HEAT TRACE PLAN
E3.1	SHELTER TYPE 3 - ON-STREET BUS PASSENGER SHELTER	POWER AND LIGHTING PLANS
E4.1	SHELTER TYPE 4 - SMALL BIKE SHELTER	POWER AND LIGHTING PLANS
E5.1	SHELTER TYPE 5 - LARGE BIKE SHELTER	POWER AND LIGHTING PLANS
E6.1	SHELTER TYPE 6 - AMENITIES SHELTER	POWER AND LIGHTING PLANS

STRUCTURAL SHEET LIST

SHEET NUMBER	SHELTER TYPE	SHEET NAME
S0.1	GENERAL	GENERAL NOTES AND TYPICAL DETAILS
S1.1	SHELTER TYPE 1 - RAIL LINE STATIONS PASSENGER SHELTER	PLANS AND DETAILS
S2.1	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	PLANS
S2.2	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER	DETAILS
S3.1	SHELTER TYPE 3 - ON-STREET BUS PASSENGER SHELTER	PLANS AND DETAILS
S4.1	SHELTER TYPE 4 - SMALL BIKE SHELTER	PLANS AND DETAILS
S5.1	SHELTER TYPE 5 - LARGE BIKE SHELTER	PLANS AND DETAILS
S6.1	SHELTER TYPE 6 - AMENITIES SHELTER	PLANS AND DETAILS

MASTER KEYNOTE LIST

KEY VALUE	DESCRIPTION
03 30 00	CAST-IN-PLACE CONCRETE
03 35 23	SANDBLASTED CONCRETE FINISHING
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 14 13	ARCHITECTURALLY-EXPOSED STRUCTURAL ALUMINUM FRAMING
05 31 00.D1	STEEL ROOF DECKING
05 50 00.A0	ALUMINUM SHEET
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.A2	5mm ALUMINUM PLATE
05 50 00.A3	6.4mm ALUMINUM PLATE
05 50 00.A5	ALUMINUM EXTRUSION
05 50 00.A6	ALUMINUM FRAMING
05 50 00.A7	3mm PERFORATED ALUMINUM PLATE
05 50 00.B1	BENCH SEATS
05 50 00.C1	PVC RAINWATER LEADER
05 50 00.C2	RAINWATER LEADER CLEANOUT
05 50 00.F1	ALUMINUM BIKE SYMBOL
05 50 00.G1	ALUMINUM GUTTER
05 50 00.H1	ALUMINUM STUB SHAFT CONNECTION
06 61 16.A1	13mm WHITE CORIAN
07 42 41.D1	ALUMINUM CEILING PANELS
07 53 24.A1	EPDM MEMBRANE ROOF ON 22mm PLYWOOD DECK
07 53 24.A2	EPDM MEMBRANE ROOF ON 13mm SHEATHING BOARD
08 56 88.A1	CUSTOM ALUMINUM GLAZING SHOE
08 56 88.A2	RECESSED GLAZING HEAD CHANNEL
08 56 88.A3	GLAZING SUPPORT AND LEVELLING BOLTS
08 71 13.A1	AUTOMATIC DOOR OPERATOR
08 71 13.A2	AUTOMATIC DOOR OPERATOR BUTTON
08 80 00.D1	DISTRACTION DECAL
08 80 00.D2	AUTOMATIC DOOR SIGN
08 80 00.GL1	10MM CLEAR TEMPERED GLASS WITH PYROLITIC LOW-E COATING
08 80 00.GL2	10MM CLEAR TEMPERED GLASS
08 80 00.GL3.1	6MM CLEAR LOW-IRON TEMPERED GLASS
08 80 00.GL3.2	6MM LOW-IRON TEMPERED GLASS WITH WHITE CERAMIC ON BACK
23 83 00.A1	RADIANT INFRARED HEATERS - ELECTRIC
23 83 00.A2	HEATER CONTROL BUTTON
26 05 31.A1	JUNCTION BOX
26 09 24.A1	PHOTOCELL DAYLIGHTING SENSOR
26 27 26.A1	LCD SCREEN
26 27 26.A2	LED LIGHT PANEL
26 27 26.A3	GFCI RECEPTACLE
26 27 26.A4	USB CHARGING RECEPTACLE
26 50 00.A1	RECESSED LED LINEAR LIGHT FIXTURE
27 51 16.A1	PUBLIC ADDRESS SPEAKER
27 51 23.A1	TWO-WAY COMMUNICATION DEVICE
28 23 00.A1	OUTDOOR CCTV CAMERA

GENERAL NOTES:
1. Drawings are not to be scaled. Contractor will verify all existing conditions and dimensions required to perform the Work and will report any discrepancies with the Contract Documents to the Architect before commencing work.
2. The Architectural Drawings are to be read in conjunction with all other Contract Documents including the Project Manuals and the Structural, Mechanical and Electrical Drawings. In cases of difference between the Consultants' documents with respect to the quantity, sizes or scope of work, the greater shall apply.
3. Positions of exposed or finished Mechanical or Electrical devices, fittings and fixtures are indicated on the Architectural Drawings. Locations shown on the Architectural Drawings shall govern over Mechanical and Electrical Drawings. Mechanical and Electrical items not clearly located will be located as directed by the Architect.
4. Dimensions indicated are taken between the faces of finished surfaces unless otherwise noted.
5. The architect has not been retained for supervision of construction and assumes no responsibility for means, methods and techniques of construction.
6. These documents are not to be used for construction unless specifically noted for such purpose.

DOORS SCHEDULE

DOOR NO.	Type	Location	DOOR Width	Height	Thickness	Door Material	Door Finish
D1	0975 x 2300mm	Shelter Type 2	975	2320	47.6	Aluminum	Coating, as per drawings
D2	0975 x 2300mm	Shelter Type 2	975	2320	47.6	Aluminum	Coating, as per drawings
D3	0975 x 2300mm	Shelter Type 2	975	2320	47.6	Aluminum	Coating, as per drawings
D4	0975 x 2300mm	Shelter Type 2	975	2320	47.6	Aluminum	Coating, as per drawings
IWA1	Infowall A Access Door	Shelter Type 1	1335.6	1943	82.2	Aluminum	As per elevations
IWA2	Infowall A Access Door	Shelter Type 2	1335.6	1943	82.2	Aluminum	As per elevations
IWA3	Infowall A Access Door	Shelter Type 2	1335.6	1943	82.2	Aluminum	As per elevations
IWB1	Infowall B Access Door	Shelter Type 1	1335.6	1943	82.2	Aluminum	As per elevations
IWB2	Infowall B Access Door	Shelter Type 2	1335.6	1943	82.2	Aluminum	As per elevations
IWB3	Infowall B Access Door	Shelter Type 3	1335.6	1943	82.2	Aluminum	As per elevations
IWC1	Infowall C Access Door	Shelter Type 2	1335.6	1943	82.2	Aluminum	As per elevations
IWD1	Infowall D Access Door	Shelter Type 6	1335.6	1943	82.2	Aluminum	As per elevations

LIGHTING FIXTURES LEGEND

Value	Type - Length	Comments	Count	Keynote
L1	RECESSED LINEAR LED - 646 mm	Shelter Type 1	3	26 50 00.A1
L2	RECESSED LINEAR LED - 958.5 mm	Shelter Type 2	18	26 50 00.A1
L3	RECESSED LINEAR LED - 458.5 mm	Shelter Type 4	4	26 50 00.A1
L4	RECESSED LINEAR LED - 583.5 mm	Shelter Type 5	4	26 50 00.A1
L4	RECESSED LINEAR LED - 583.5 mm	Shelter Type 6	6	26 50 00.A1

GLAZING LEGEND

Tag	Description
GL1	10mm Clear Glass with Low-E Coating
GL2	10mm Clear Glass
GL3	6mm Low-Iron Glass
GL4	13mm Clear Glass with Low-E Coating

COATINGS LEGEND

Tag	Description
P1	Paint, Silver Grey, Matte
P2	Paint, White, Glossy
P3	Paint, Dark Grey, Matte

METRIC
ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS

REV:	REV:

ISSUE

NO:	DATE:	ISSUED FOR:
1	2015/08/12	50% DETAILED DESIGN
2	2015/10/07	75% DETAILED DESIGN
2	2016/01/27	100% DETAILED DESIGN (DRAFT)

REVISIONS

REV:	DATE:

DRAWN BY: JDG
DESIGNED BY: gh3
CHECKED BY: PH
APPROVED BY:
SCALE: 1 : 5
FULL SIZE ONLY

seal:

gh3 architecture
100-55 Ossington Avenue Toronto ON M6J 2Y9
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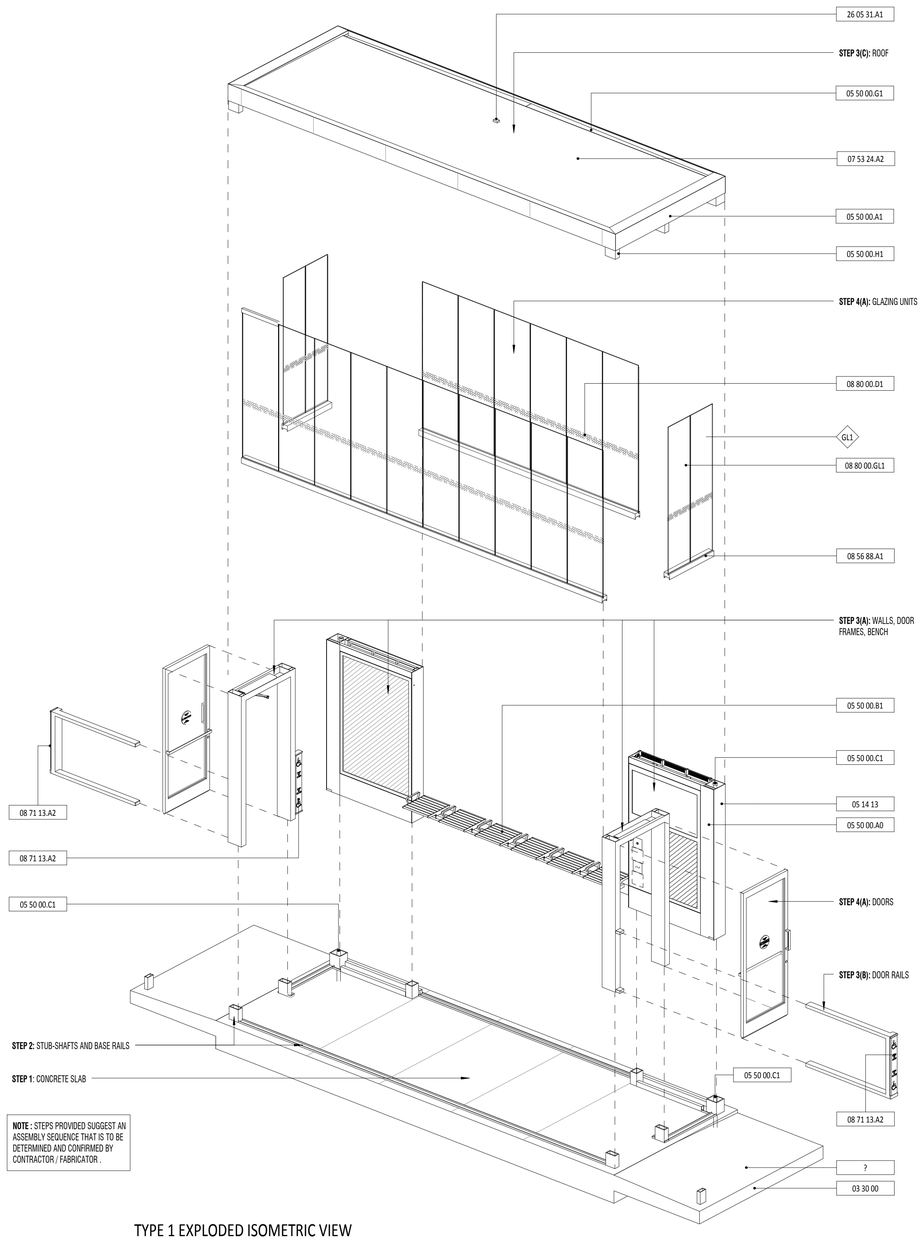
GO SHELTER DESIGNS

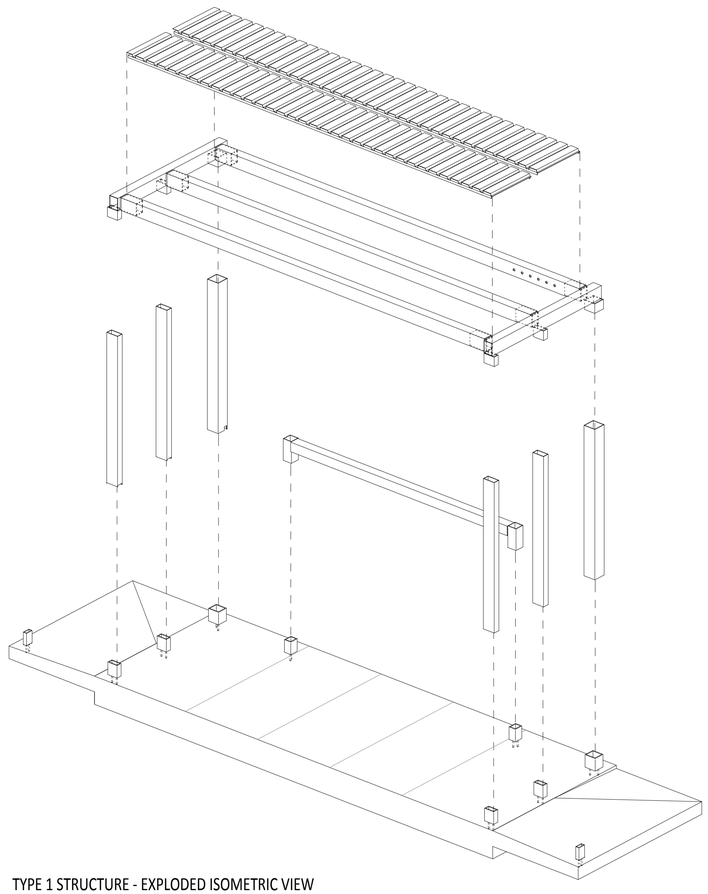
DRAWINGS LIST, SCHEDULES, AND GENERAL NOTES

CONTRACT NO: RQQ-2014-CON-061
DRAWING NO: 0.1
REV. 0.
SHEET

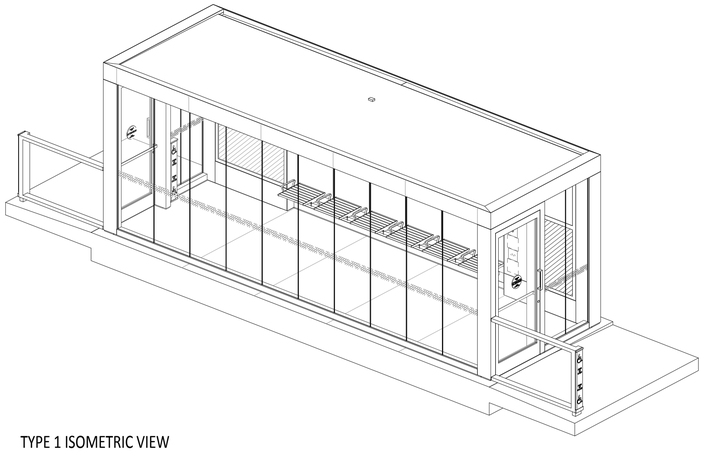


TYPE 1 EXPLODED ISOMETRIC VIEW

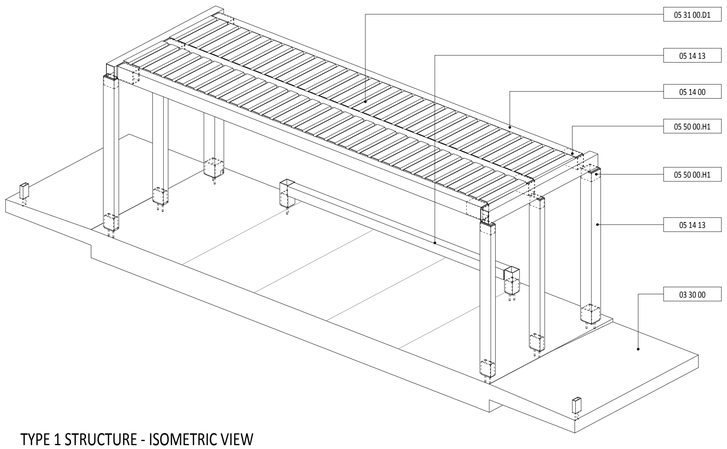
KEYNOTE LEGEND	
NO.	DESCRIPTION
03 30 00	CAST-IN-PLACE CONCRETE
03 35 23	SANDBLASTED CONCRETE FINISHING
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 14 13	ARCHITECTURALLY-EXPOSED STRUCTURAL ALUMINUM FRAMING
05 31 00.D1	STEEL ROOF DECKING
05 50 00.A0	ALUMINUM SHEET
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.B1	BENCH SEATS
05 50 00.C1	PVC RAINWATER LEADER
05 50 00.G1	ALUMINUM GUTTER
05 50 00.H1	ALUMINUM STUB SHAFT CONNECTION
07 53 24.A2	EPDM MEMBRANE ROOF ON 13mm SHEATHING BOARD
08 56 88.A1	CUSTOM ALUMINUM GLAZING SHOE
08 71 13.A2	AUTOMATIC DOOR OPERATOR BUTTON
08 80 00.D1	DISTRACTION DECAL
08 80 00.GL1	10MM CLEAR TEMPERED GLASS WITH PYROLITIC LOW-E COATING
26 05 31.A1	JUNCTION BOX



TYPE 1 STRUCTURE - EXPLODED ISOMETRIC VIEW



TYPE 1 ISOMETRIC VIEW



TYPE 1 STRUCTURE - ISOMETRIC VIEW

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS		ISSUE			REVISIONS		
		1	2015/08/12	50% DETAILED DESIGN			
		2	2015/10/07	75% DETAILED DESIGN			
		2	2016/01/27	100% DETAILED DESIGN (DRAFT)			
REV:	REV:	NO:	DATE:	ISSUED FOR:	REV:	DATE:	

DRAWN BY: JD	DESIGNED BY: gh3
CHECKED BY: Checker	APPROVED BY: Approver
SCALE:	FULL SIZE ONLY

seal:

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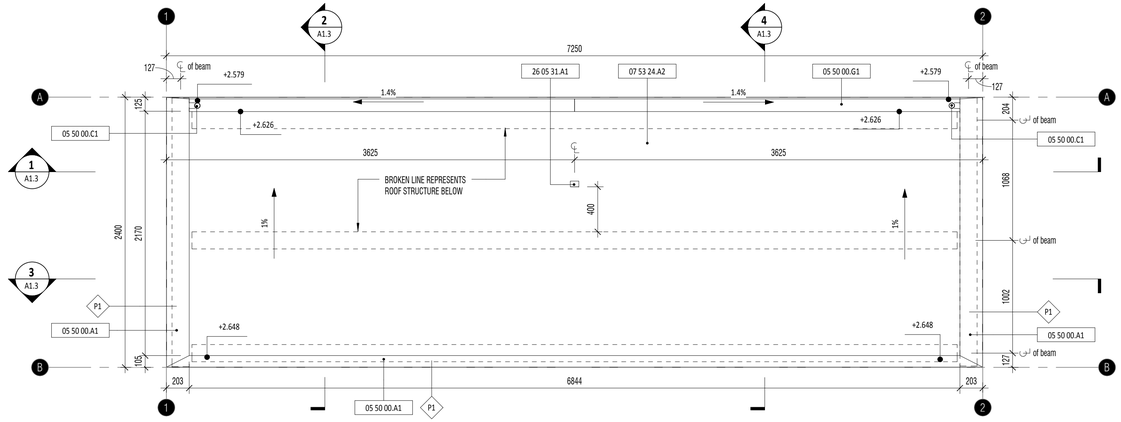
GO SHELTER DESIGNS

SHELTER TYPE 1 – RAIL LINE STATIONS PASSENGER SHELTER

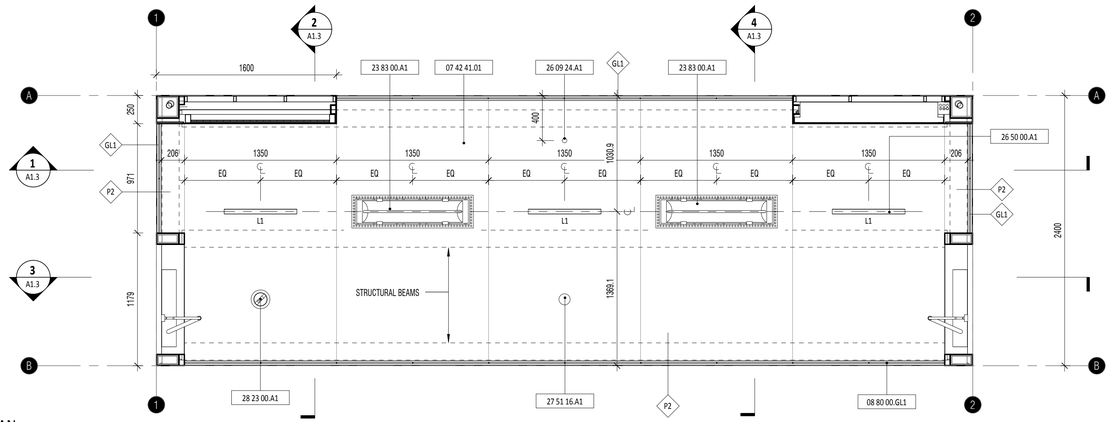
3D ISOMETRIC VIEWS

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ–2014–CON–061	A1.0	0.	



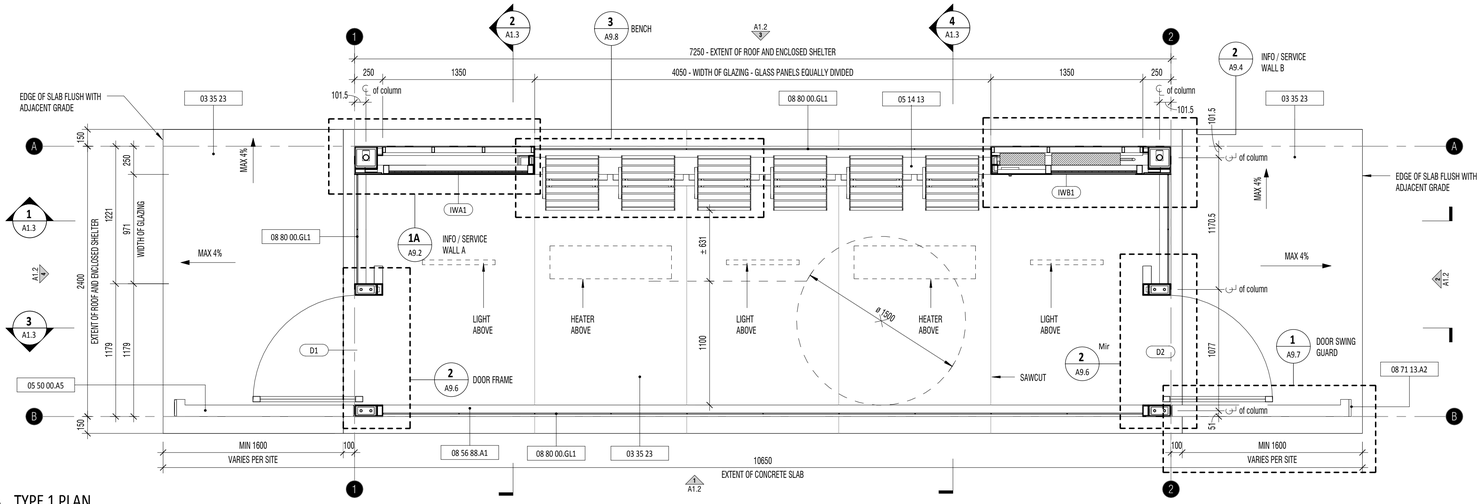
3 A1.1 TYPE 1 ROOF PLAN

1 : 25



2 A1.1 TYPE 1 REFLECTED CEILING PLAN

1 : 25



1 A1.1 TYPE 1 PLAN

1 : 25

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

KEYNOTE LEGEND

NO.	DESCRIPTION
03 35 23	SANDBLASTED CONCRETE FINISHING
05 14 13	ARCHITECTURALLY-EXPOSED STRUCTURAL ALUMINUM FRAMING
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.A5	ALUMINUM EXTRUSION
05 50 00.C1	PVC RAINWATER LEADER
05 50 00.G1	ALUMINUM GUTTER
07 42 41.01	ALUMINUM CEILING PANELS
07 53 24.A2	EPDM MEMBRANE ROOF ON 13mm SHEATHING BOARD
08 56 88.A1	CUSTOM ALUMINUM GLAZING SHOE
08 71 13.A2	AUTOMATIC DOOR OPERATOR BUTTON
08 80 00.GL1	10MM CLEAR TEMPERED GLASS WITH PYROLITIC LOW-E COATING
23 83 00.A1	RADIANT INFRARED HEATERS - ELECTRIC
26 05 31.A1	JUNCTION BOX
26 09 24.A1	PHOTOCELL DAYLIGHTING SENSOR
26 50 00.A1	RECESSED LED LINEAR LIGHT FIXTURE
27 51 16.A1	PUBLIC ADDRESS SPEAKER
28 23 00.A1	OUTDOOR CCTV CAMERA

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS

REV:	REV:

ISSUE

NO:	DATE:	ISSUED FOR:
1	2015/08/12	50% DETAILED DESIGN
2	2015/10/07	75% DETAILED DESIGN
2	2016/01/27	100% DETAILED DESIGN (DRAFT)

REVISIONS

REV:	DATE:

DRAWN BY: JD	DESIGNED BY: gh3
CHECKED BY: PH	APPROVED BY: Approver
SCALE: 1 : 25	FULL SIZE ONLY

seal:

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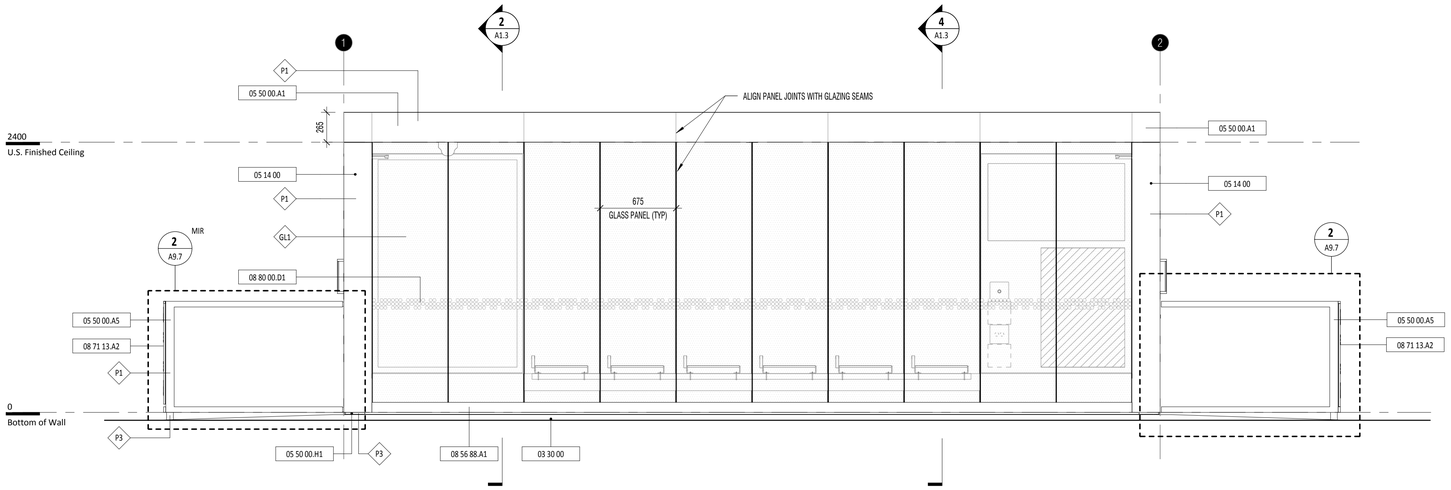
GO SHELTER DESIGNS

SHELTER TYPE 1 – RAIL LINE STATIONS PASSENGER SHELTER

PLANS

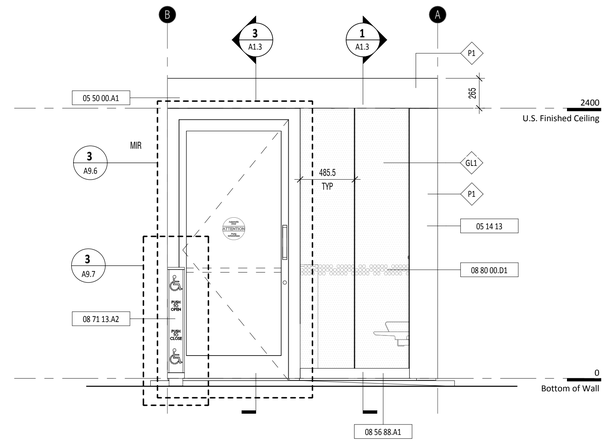
CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ–2014–CON–061	A1.1	0.	

KEYNOTE LEGEND	
NO.	DESCRIPTION
03 30 00	CAST-IN-PLACE CONCRETE
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 14 13	ARCHITECTURALLY-EXPOSED STRUCTURAL ALUMINUM FRAMING
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.A5	ALUMINUM EXTRUSION
05 50 00.H1	ALUMINUM STUB SHAFT CONNECTION
08 56 88.A1	CUSTOM ALUMINUM GLAZING SHOE
08 71 13.A2	AUTOMATIC DOOR OPERATOR BUTTON
08 80 00.D1	DISTRACTION DECAL
08 80 00.GL1	10MM CLEAR TEMPERED GLASS WITH PYROLITIC LOW-E COATING



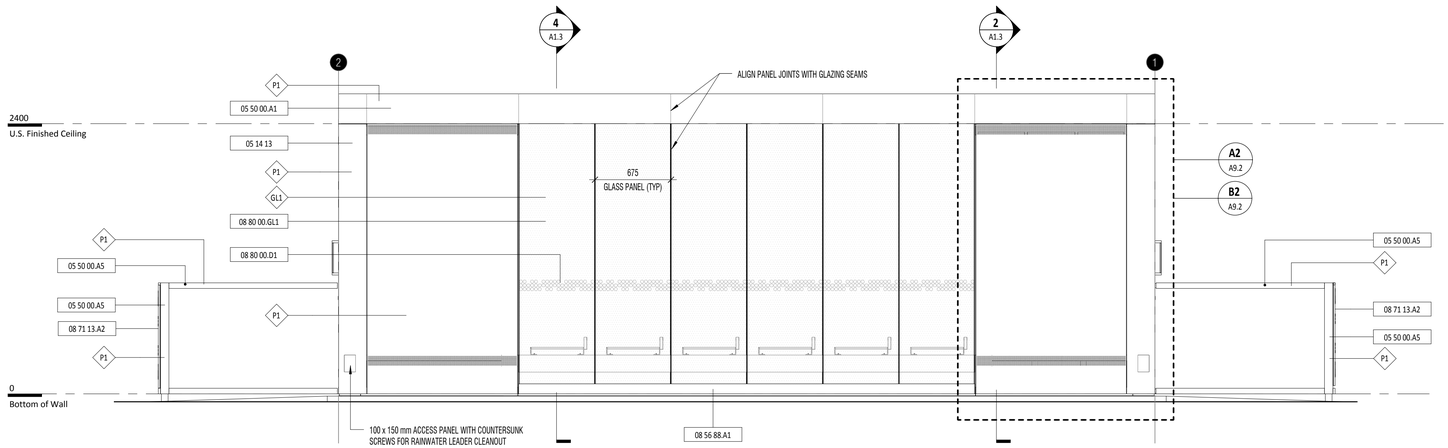
1 A1.2 TYPE 1 ELEVATION - FRONT

1 : 25



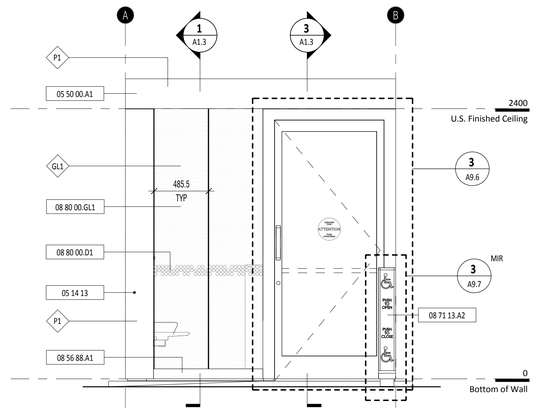
2 A1.2 TYPE 1 ELEVATION - RIGHT

1 : 25



3 A1.2 TYPE 1 ELEVATION - BACK

1 : 25



4 A1.2 TYPE 1 ELEVATION - LEFT

1 : 25

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS		ISSUE			REVISIONS		
		1	2015/08/12	50% DETAILED DESIGN			
		2	2015/10/07	75% DETAILED DESIGN			
		2	2016/01/27	100% DETAILED DESIGN (DRAFT)			
REV:	REV:	NO:	DATE:	ISSUED FOR:	REV:	DATE:	

DRAWN BY: JD
DESIGNED BY: gh3
CHECKED BY: PH
APPROVED BY: Approver
SCALE: 1 : 25
FULL SIZE ONLY

seal:

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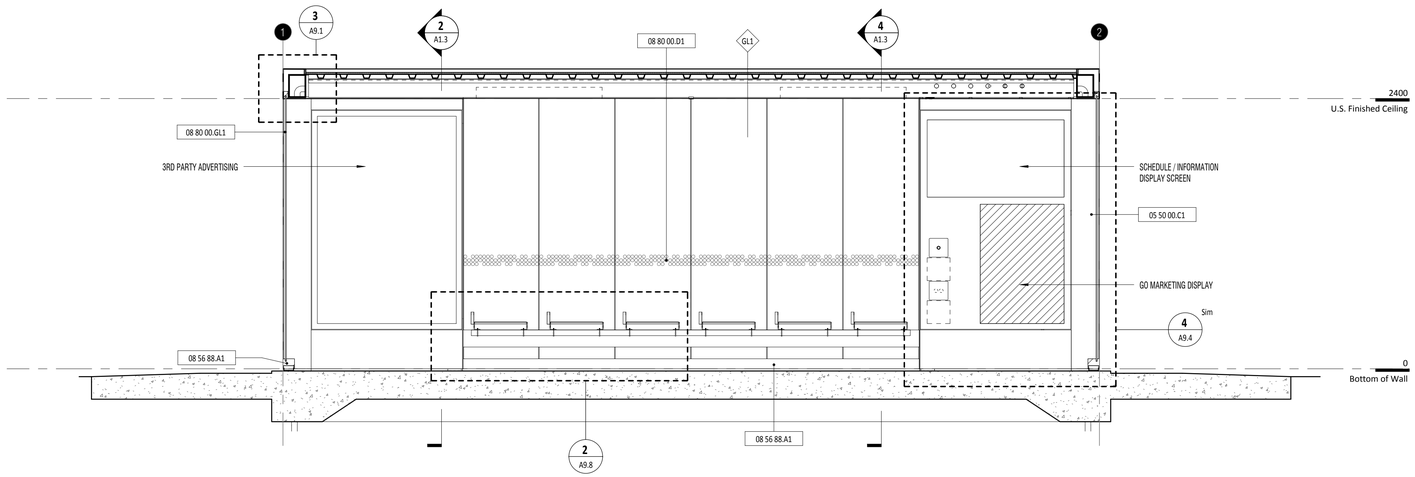
100-55 Ossington Avenue Toronto ON M6J 2Y9
t. 416 915 1791 f. 416 915 1793 www.gh3.ca

GO SHELTER DESIGNS

SHELTER TYPE 1 – RAIL LINE STATIONS PASSENGER SHELTER

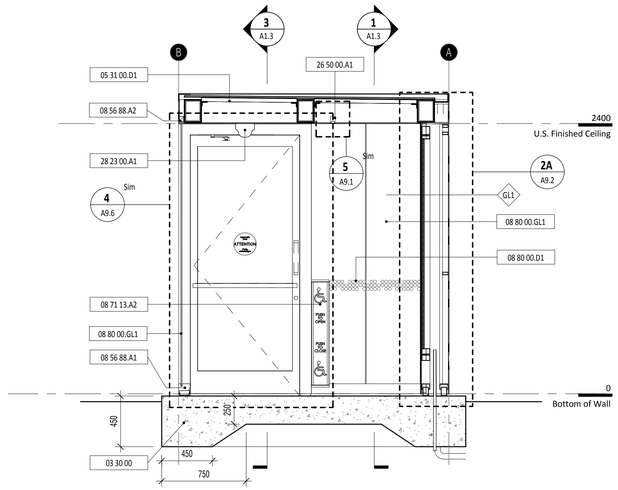
ELEVATIONS

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ–2014–CON–061	A1.2	0.	



1 A1.3 TYPE 1 SECTION 1

1 : 25



2 A1.3 TYPE 1 SECTION 2

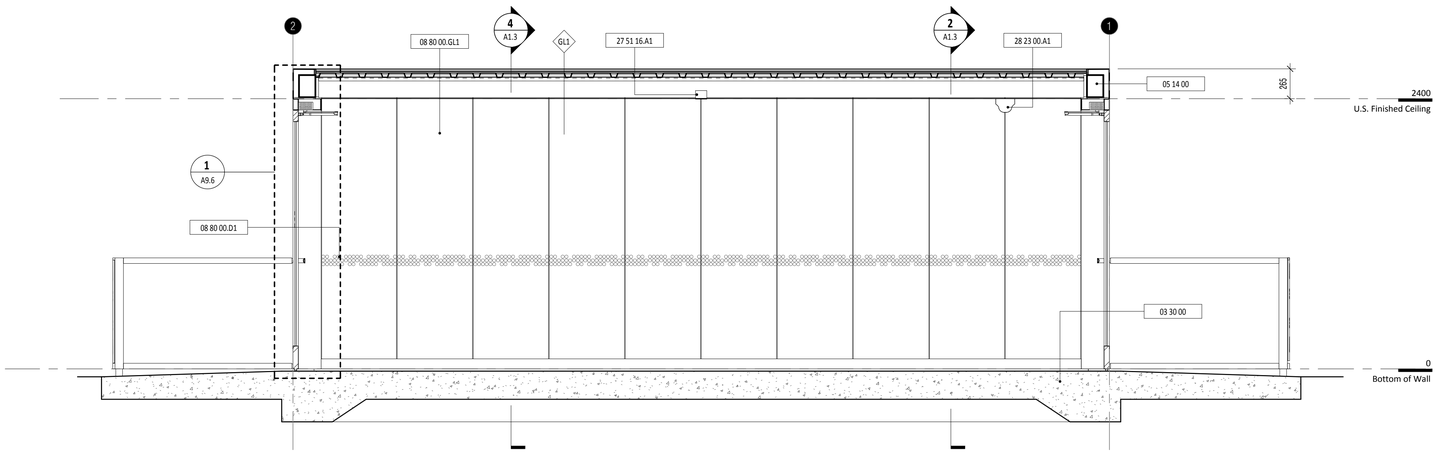
1 : 25

KEYNOTE LEGEND

NO.	DESCRIPTION
03 30 00	CAST-IN-PLACE CONCRETE
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 31 00.D1	STEEL ROOF DECKING
05 50 00.C1	PVC RAINWATER LEADER
08 56 88.A1	CUSTOM ALUMINUM GLAZING SHOE
08 56 88.A2	RECESSED GLAZING HEAD CHANNEL
08 71 13.A2	AUTOMATIC DOOR OPERATOR BUTTON

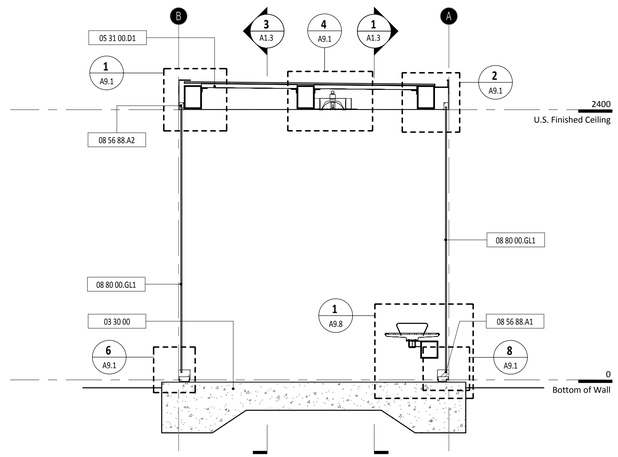
KEYNOTE LEGEND

NO.	DESCRIPTION
08 80 00.D1	DISTRACTION DECAL
08 80 00.GL1	10MM CLEAR TEMPERED GLASS WITH PYROLITIC LOW-E COATING
26 50 00.A1	RECESSED LED LINEAR LIGHT FIXTURE
27 51 16.A1	PUBLIC ADDRESS SPEAKER
28 23 00.A1	OUTDOOR CCTV CAMERA



3 A1.3 TYPE 1 SECTION 3

1 : 25



4 A1.3 TYPE 1 SECTION 4

1 : 25

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS

REV:	REV:

ISSUE

NO:	DATE:	ISSUED FOR:
1	2015/08/12	50% DETAILED DESIGN
2	2015/10/07	75% DETAILED DESIGN
2	2016/01/27	100% DETAILED DESIGN (DRAFT)

REVISIONS

REV:	DATE:

DRAWN BY: Author	DESIGNED BY: gh3
CHECKED BY: Checker	APPROVED BY: Approver
SCALE: 1 : 25	FULL SIZE ONLY

seal:

gh3 architecture
100-55 Ossington Avenue Toronto ON M6J 2Y9
t. 416 915 1791 f. 416 915 1793 www.gh3.ca

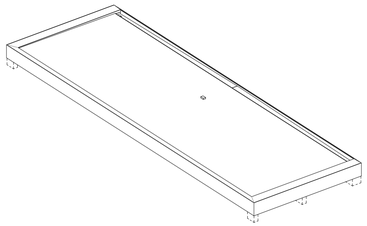
GO SHELTER DESIGNS

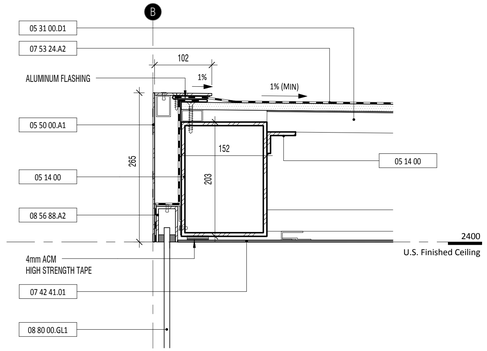
SHELTER TYPE 1 – RAIL LINE STATIONS PASSENGER SHELTER

SECTIONS

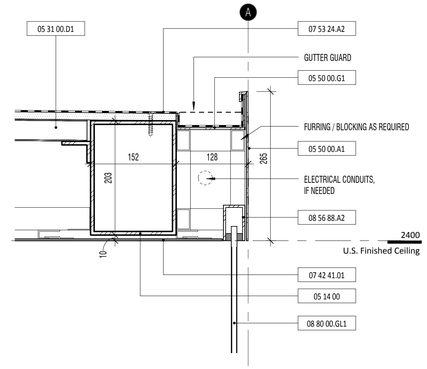
CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	A1.3	0.	

ROOF

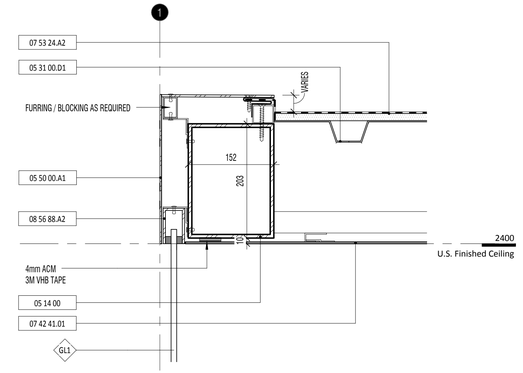




1 A1.3 A9.1 FRONT ROOF FASCIA - SECTION DETAIL
1 : 5



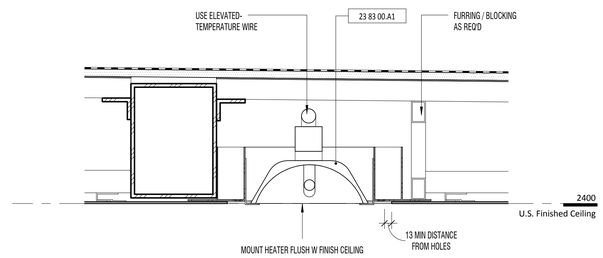
2 A1.3 A9.1 BACK ROOF FASCIA - SECTION DETAIL
1 : 5



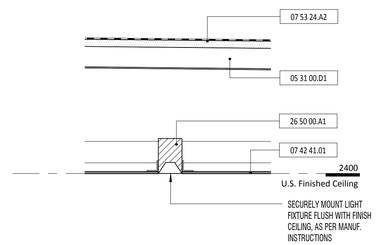
3 A1.3 A9.1 SIDE ROOF FASCIA - SECTION DETAIL
1 : 5

KEYNOTE LEGEND

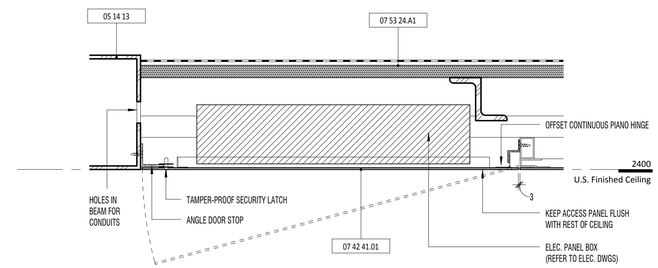
NO.	DESCRIPTION
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 14 13	ARCHITECTURALLY-EXPOSED STRUCTURAL ALUMINUM FRAMING
05 31 00.D1	STEEL ROOF DECKING
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.G1	ALUMINUM GUTTER
05 50 00.H1	ALUMINUM STUB SHAFT CONNECTION
07 42 41.01	ALUMINUM CEILING PANELS
07 53 24.A1	EPDM MEMBRANE ROOF ON 22mm PLYWOOD DECK
07 53 24.A2	EPDM MEMBRANE ROOF ON 13mm SHEATHING BOARD
08 56 88.A1	CUSTOM ALUMINUM GLAZING SHOE
08 56 88.A2	RECESSED GLAZING HEAD CHANNEL
08 80 00.GL1	10MM CLEAR TEMPERED GLASS WITH PYROLITIC LOW-E COATING
08 80 00.GL2	10MM CLEAR TEMPERED GLASS
23 83 00.A1	RADIANT INFRARED HEATERS - ELECTRIC
26 50 00.A1	RECESSED LED LINEAR LIGHT FIXTURE



4 A1.3 A9.1 HEATER DETAIL
1 : 5

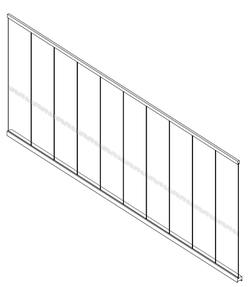


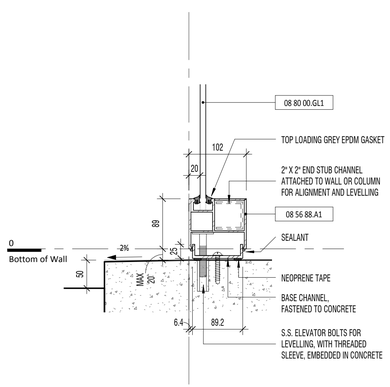
5 A1.3 A9.1 LIGHT DETAIL
1 : 5



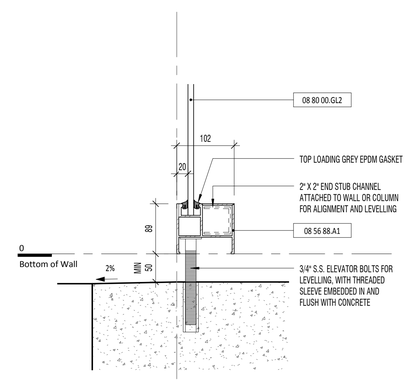
9 A4.2 A9.1 CEILING ACCESS PANEL SECTION DETAIL
1 : 5

GLAZING

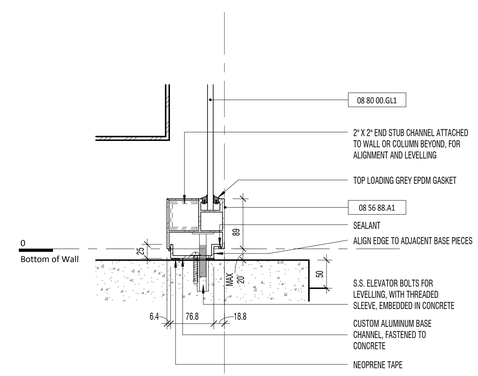




6 A1.3 A9.1 GLAZING BASE AT GRADE - SECTION DETAIL A
1 : 5



7 A3.1 A9.1 RAISED GLAZING BASE - SECTION DETAIL
1 : 5



8 A1.3 A9.1 GLAZING BASE AT GRADE - SECTION DETAIL B
1 : 5

METRIC

ALL DIMENSION SHOWN
ARE IN METERS AND/OR
MILLIMETRES UNLESS
OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS

REV:	REV:

ISSUE

NO:	DATE:	ISSUED FOR:
1	2015/08/12	50% DETAILED DESIGN
2	2015/10/07	75% DETAILED DESIGN
2	2016/01/27	100% DETAILED DESIGN (DRAFT)

REVISIONS

REV:	DATE:	
1	2015/08/12	50% DETAILED DESIGN

DRAWN BY: Author
DESIGNED BY: gh3
CHECKED BY: Checker 2015/08/12
APPROVED BY: Approver 2015/08/12
SCALE: 1 : 5
FULL SIZE ONLY

seal:

gh3 architecture
100-55 Ossington Avenue Toronto ON M6J 2Y9
t. 416 915 1791 f. 416 915 1793 www.gh3.ca

GO SHELTER DESIGNS
GENERAL
ROOF AND GLAZING DETAILS

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	A9.1	0.	

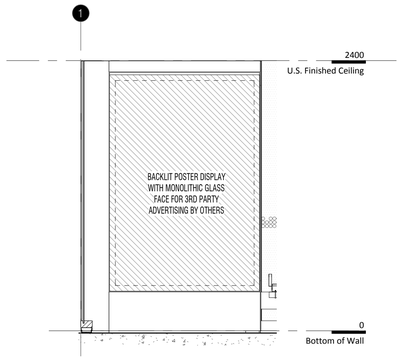
INFO / SERVICE WALL A

NOTE - INFO / SERVICE WALL A IS TO BE DEDICATED TO DISPLAYING 3RD PARTY ADVERTISING, AND CAN BE CONFIGURED IN 4 DIFFERENT WAYS, AT METROLINK'S DISCRETION:

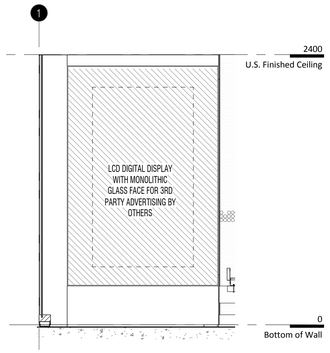
1. INTERIOR DIGITAL SCREEN WITH EXTERIOR BACKLIT POSTER DISPLAY (EXTERIOR OPENS FOR MAINTENANCE ACCESS)
2. INTERIOR DIGITAL SCREEN WITH BLANK EXTERIOR (EXTERIOR OPENS FOR MAINTENANCE ACCESS)
3. INTERIOR AND EXTERIOR BACKLIT POSTER DISPLAYS (BOTH OPEN FOR MAINTENANCE ACCESS)
6. INTERIOR BACKLIT POSTER DISPLAY WITH BLANK EXTERIOR (INTERIOR OPENS FOR MAINTENANCE ACCESS)

EACH OF THE DIGITAL SCREEN AND BACKLIT POSTER DISPLAY ARE TO BE SUPPLIED BY OTHERS.

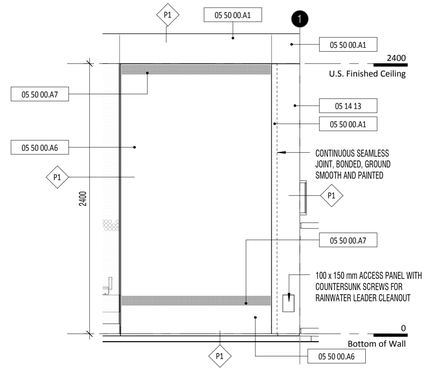
THE 2 DETAIL PLANS ON THIS SHEET SHOW EACH OF THE INTERIOR AND EXTERIOR OPTIONS. FROM THESE, THE DIFFERENT CONFIGURATIONS ABOVE CAN BE INTERPOLATED.



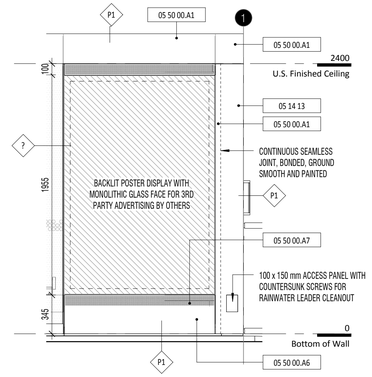
A1 / A2.4 A9.2 — INFO / SERVICE WALL INTERIOR ELEVATION - BACKLIT POSTER OPTION
1 : 25



B1 / A2.4 A9.2 — INFO / SERVICE WALL INTERIOR ELEVATION - DIGITAL SCREEN OPTION
1 : 25



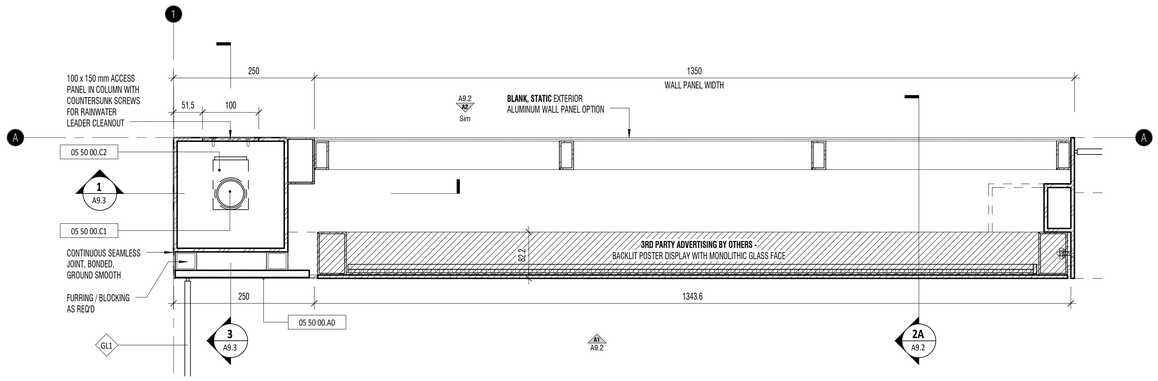
A2 / A1.2 A9.2 — INFO / SERVICE WALL EXTERIOR ELEVATION - BLANK OPTION
1 : 25



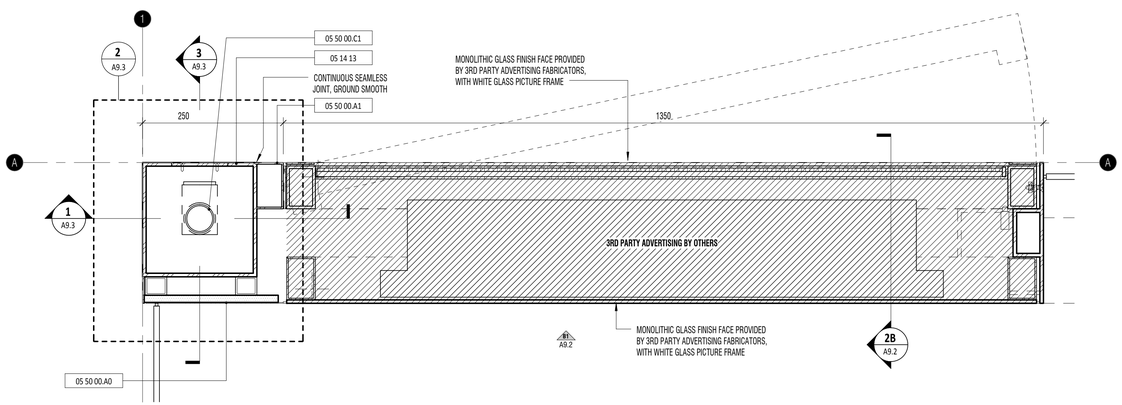
B2 / A1.2 A9.2 — INFO / SERVICE WALL EXTERIOR ELEVATION - BACKLIT POSTER OPTION
1 : 25

KEYNOTE LEGEND

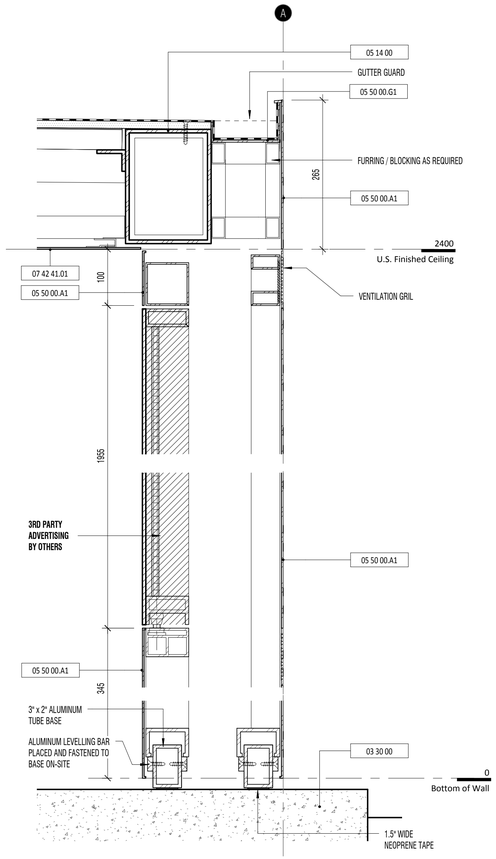
NO.	DESCRIPTION
03 30 00	CAST-IN-PLACE CONCRETE
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 14 13	ARCHITECTURALLY-EXPOSED STRUCTURAL ALUMINUM FRAMING
05 50 00.A0	ALUMINUM SHEET
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.A6	ALUMINUM FRAMING
05 50 00.A7	3mm PERFORATED ALUMINUM PLATE
05 50 00.C1	PVC RAINWATER LEADER
05 50 00.C2	RAINWATER LEADER CLEANOUT
05 50 00.G1	ALUMINUM GUTTER
07 42 41.01	ALUMINUM CEILING PANELS
07 53 24.A2	EPDM MEMBRANE ROOF ON 13mm SHEATHING BOARD
08 80 00.GL3.2	6MM LOW-IRON TEMPERED GLASS WITH WHITE CERAMIC ON BACK
26 27 26.A1	LCD SCREEN



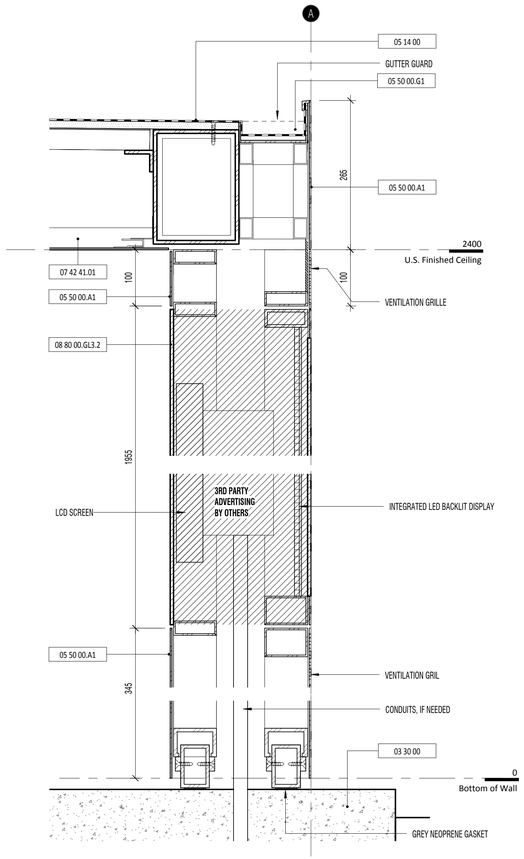
1A / A1.1 A9.2 — INFO / SERVICE WALL A PLAN DETAIL - BACKLIT POSTER OPTION, SINGLE-SIDED
1 : 5



1B / A9.2 — INFO / SERVICE WALL A PLAN DETAIL - LCD DISPLAY OPTION, DOUBLE-SIDED
1 : 5



2A / A1.3 A9.2 — INFO / SERVICE WALL A SECTION DETAIL 2, SINGLE-SIDED W BLACKLIT POSTER
1 : 5



2B / A9.2 A9.2 — INFO / SERVICE WALL A SECTION DETAIL 2, DOUBLE-SIDED W DIGITAL SCREEN
1 : 5

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS		ISSUE			REVISIONS		
		1	2015/08/12	50% DETAILED DESIGN	1	2015/08/12	50% DETAILED DESIGN
		2	2015/10/07	75% DETAILED DESIGN			
		2	2016/01/27	100% DETAILED DESIGN (DRAFT)			
REV:	REV:	NO:	DATE:	ISSUED FOR:	REV:	DATE:	

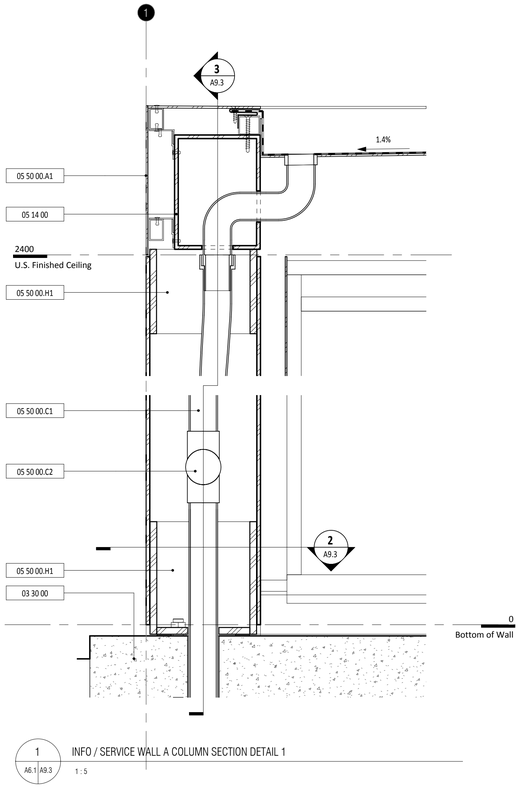
DRAWN BY: JD	DESIGNED BY: gh3
CHECKED BY: PH 2015/08/12	APPROVED BY: Approver 2015/08/12
SCALE: As indicated	FULL SIZE ONLY

seal:

gh3 architecture
100-55 Ossington Avenue Toronto ON M6J 2Y9
t. 416 915 1791 f. 416 915 1793 www.gh3.ca

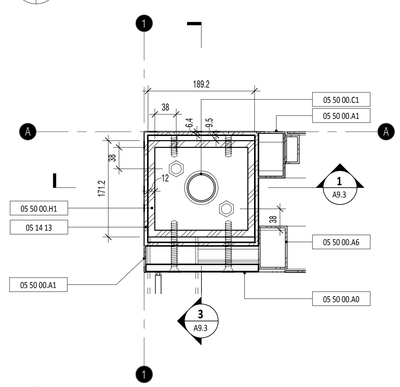
GO SHELTER DESIGNS
GENERAL
INFO / SERVICE WALL A DETAILS

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	A9.2	0.	



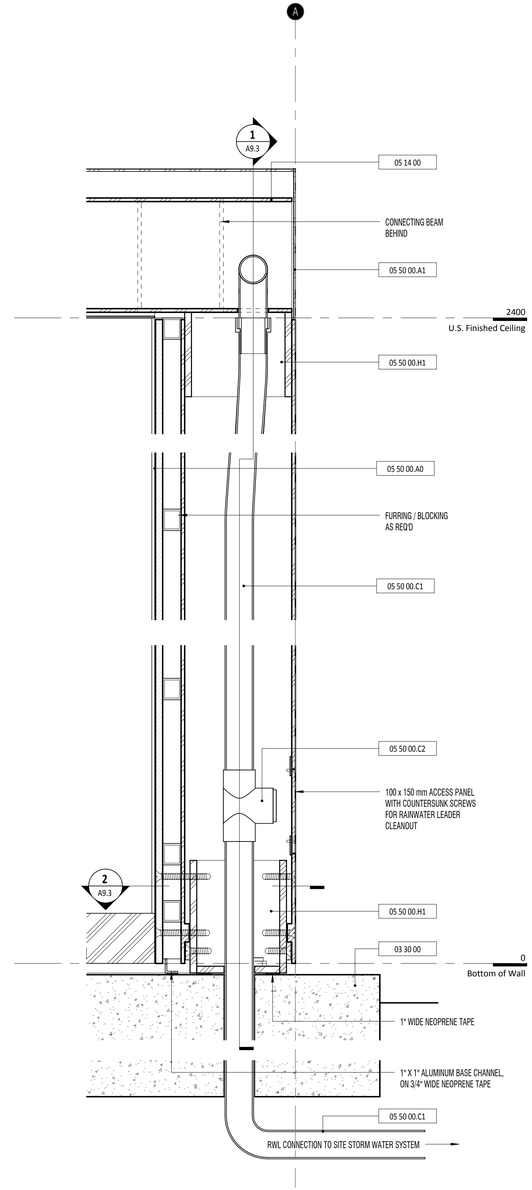
1 A6.1 A9.3 INFO / SERVICE WALL A COLUMN SECTION DETAIL 1

1 : 5



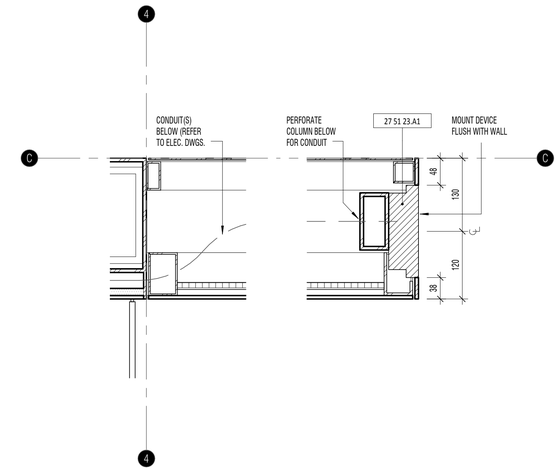
2 A9.2 A9.3 COLUMN BASE PLAN DETAIL

1 : 5



3 A9.2 A9.3 INFO / SERVICE WALL COLUMN SECTION DETAIL 2

1 : 5



4 A2.1 A9.3 INFO - SERVICE WALL A (SIP Station)

1 : 5

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS		ISSUE			REVISIONS		
		1	2015/08/12	50% DETAILED DESIGN			
		2	2015/10/07	75% DETAILED DESIGN			
		2	2016/01/27	100% DETAILED DESIGN (DRAFT)			
REV:	REV:	NO:	DATE:	ISSUED FOR:	REV:	DATE:	

DRAWN BY: Author | DESIGNED BY: Designer

CHECKED BY: Checker | APPROVED BY: Approver

SCALE: 1 : 5 | FULL SIZE ONLY

seal:

gh3 architecture
100-55 Ossington Avenue Toronto ON M6J 2Y9
t. 416 915 1791 f. 416 915 1793 www.gh3.ca

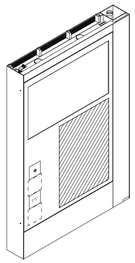
GO SHELTER DESIGNS
GENERAL

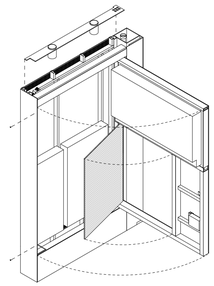
INFO / SERVICE WALL A DETAILS

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	A9.3	0.	

INFO / SERVICE WALL B

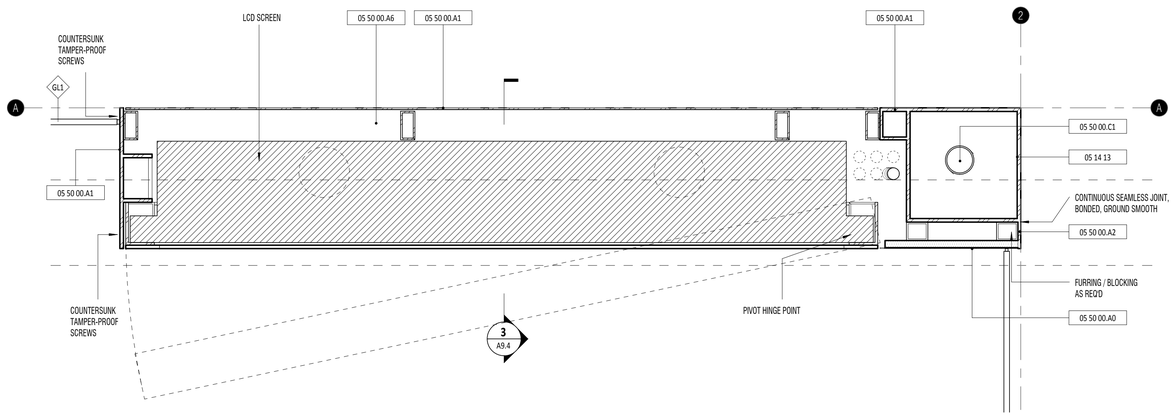
NOTE - INFO / SERVICE WALL B IS TO BE DEDICATED TO DISPLAYING SCHEDULE INFORMATION AND GO MARKETING. PROVIDING AMENITIES (HEATER CONTROL, GFCI AND USB OUTLETS), AND CAN BE CONFIGURED EITHER WITH A BLANK ALUMINUM EXTERIOR WALL, OR WITH AN EXTERIOR BACKLIT POSTER DISPLAY FOR 3RD PARTY ADVERTISING (PROVIDED BY OTHERS).





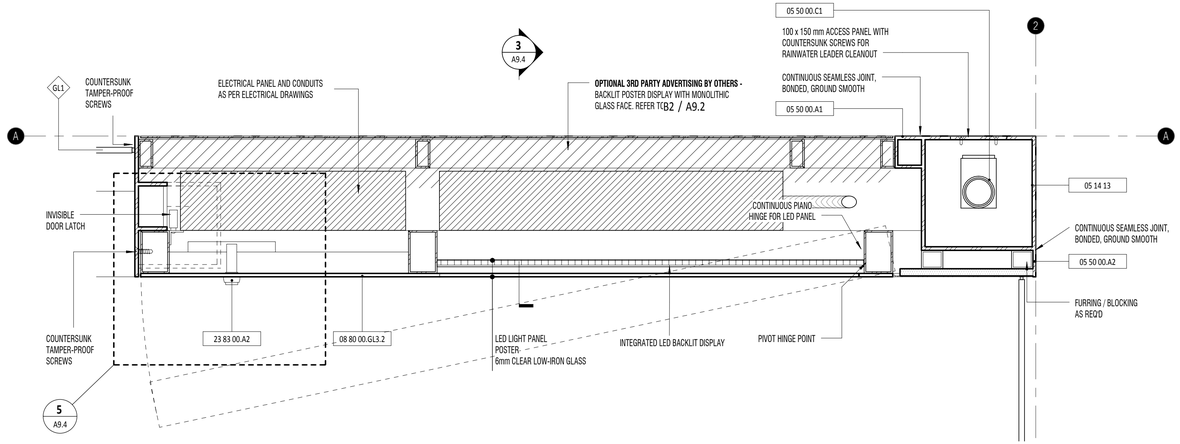
KEYNOTE LEGEND

NO.	DESCRIPTION
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 14 13	ARCHITECTURALLY-EXPOSED STRUCTURAL ALUMINUM FRAMING
05 50 00.A0	ALUMINUM SHEET
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.A2	5mm ALUMINUM PLATE
05 50 00.A6	ALUMINUM FRAMING
05 50 00.C1	PVC RAINWATER LEADER
05 50 00.G1	ALUMINUM GUTTER
07 42 41.01	ALUMINUM CEILING PANELS
07 53 24.A2	EPDM MEMBRANE ROOF ON 13mm SHEATHING BOARD
08 80 00.GL2	10MM CLEAR TEMPERED GLASS
08 80 00.GL3.1	6MM CLEAR LOW-IRON TEMPERED GLASS
08 80 00.GL3.2	6MM LOW-IRON TEMPERED GLASS WITH WHITE CERAMIC ON BACK
23 83 00.A2	HEATER CONTROL BUTTON
26 27 26.A1	LCD SCREEN
26 27 26.A2	LED LIGHT PANEL
26 27 26.A3	GFCI RECEPTACLE
26 27 26.A4	USB CHARGING RECEPTACLE



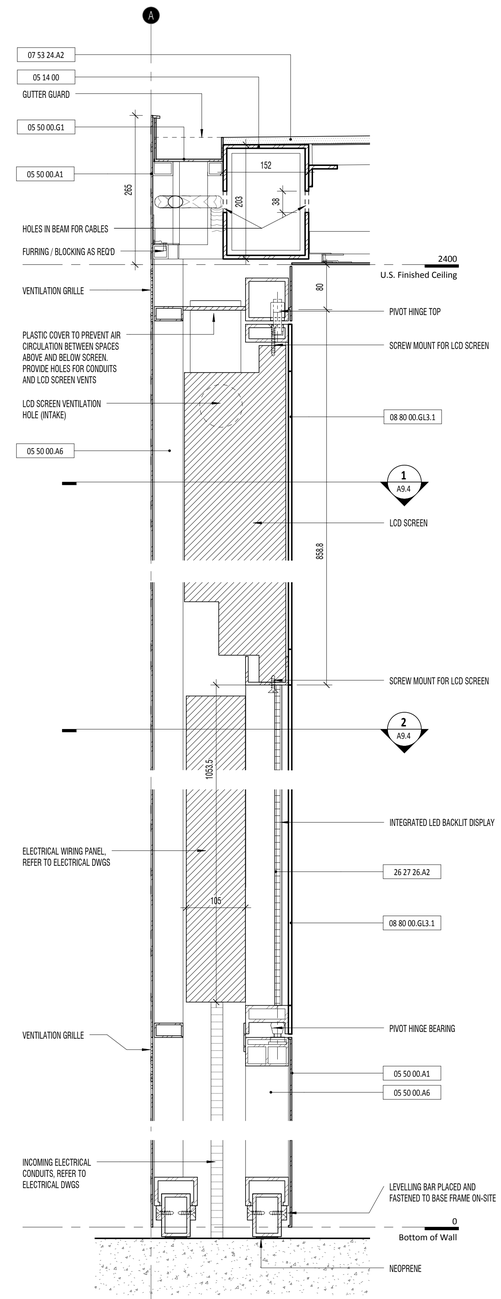
1 A9.4 INFO / SERVICE WALL B UPPER PLAN DETAIL

1 : 5



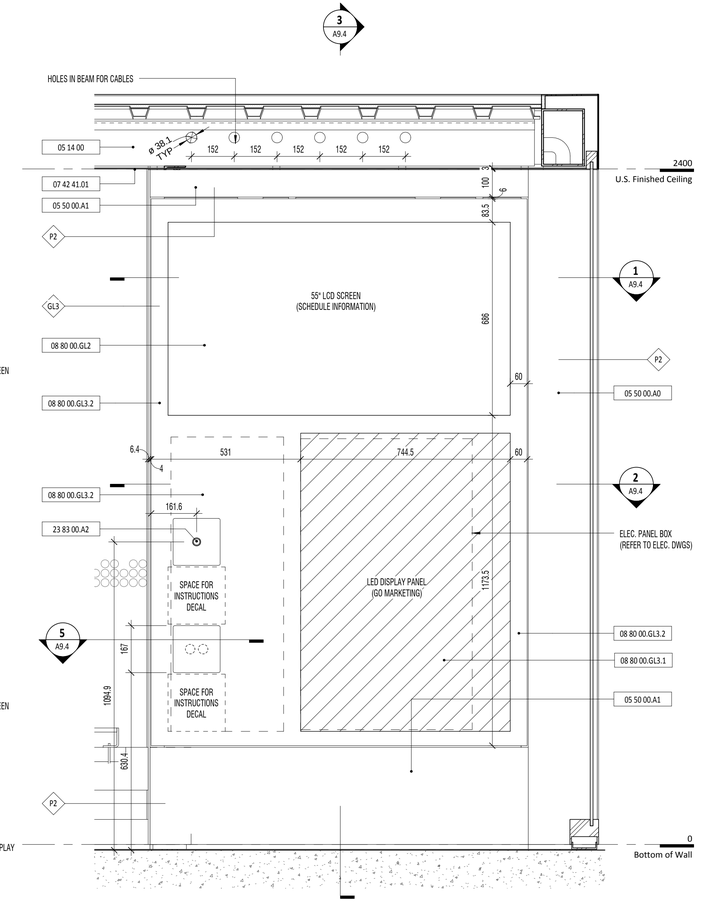
2 A9.4 INFO / SERVICE WALL B LOWER PLAN DETAIL

1 : 5



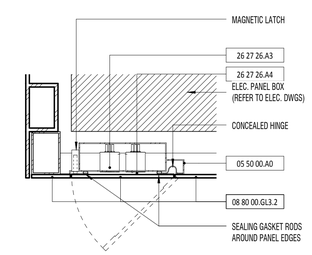
3 A9.4 INFO / SERVICE WALL B SECTION DETAIL, SINGLE-SIDED OPTION

1 : 5



4 A9.4 INFO / SERVICE WALL B, INTERIOR ELEVATION DETAIL

1 : 10



5 A9.4 RECEPTACLE COVER PLAN DETAIL

1 : 5

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS		ISSUE			REVISIONS		
		1	2015/08/12	50% DETAILED DESIGN			
		2	2015/10/07	75% DETAILED DESIGN			
		2	2016/01/27	100% DETAILED DESIGN (DRAFT)			
REV:	REV:	NO:	DATE:	ISSUED FOR:	REV:	DATE:	

DRAWN BY: JD | DESIGNED BY: gh3
CHECKED BY: | APPROVED BY:
SCALE: As indicated | FULL SIZE ONLY

seal:

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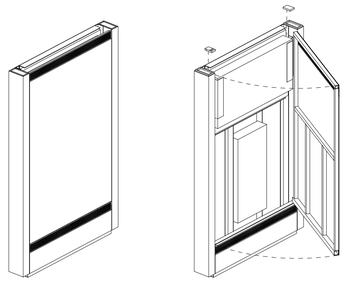
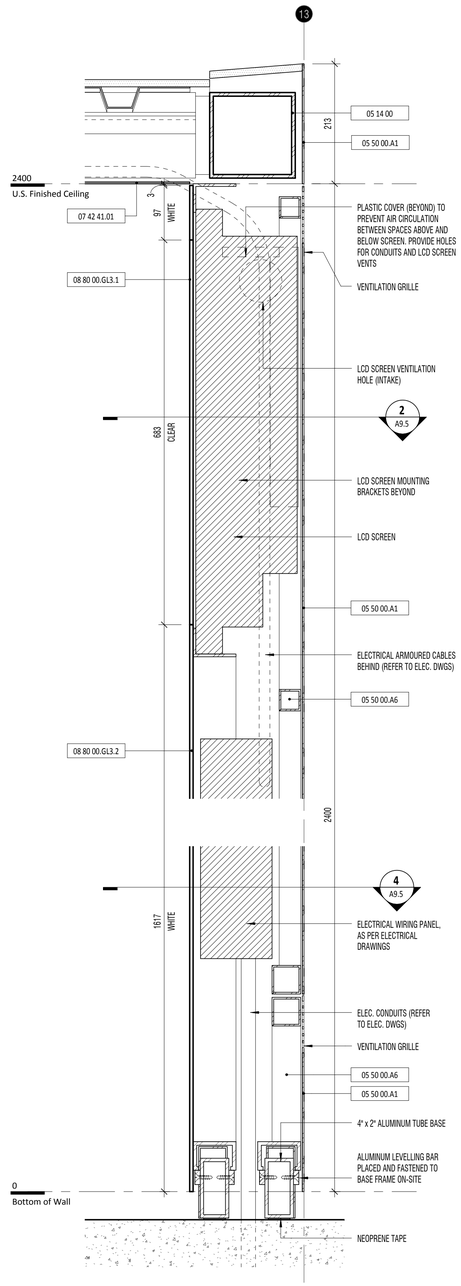
GO SHELTER DESIGNS
GENERAL
INFO / SERVICE WALL B DETAILS

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	A9.4	0.	

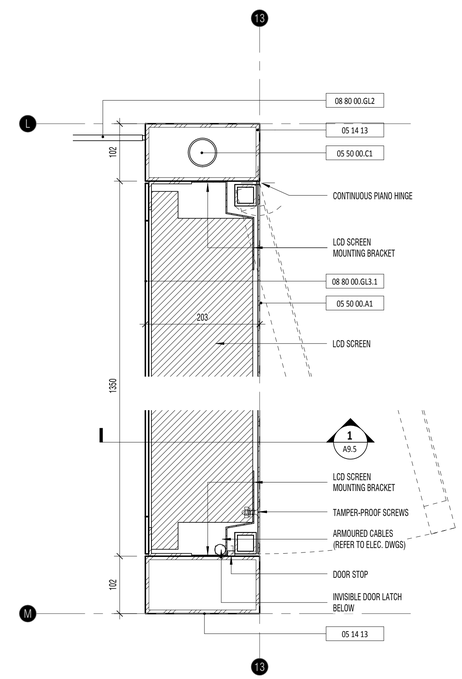
TYPE 6 INFO / SERVICE WALL



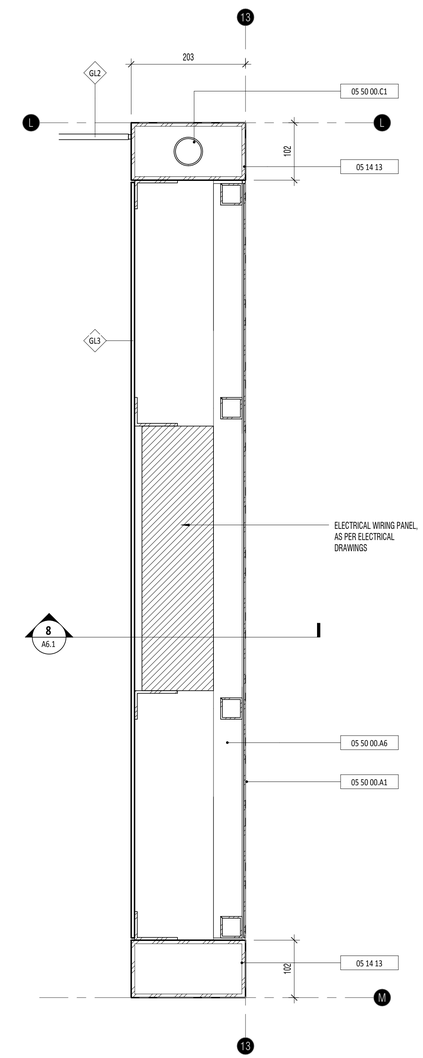
KEYNOTE LEGEND	
NO.	DESCRIPTION
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 14 13	ARCHITECTURALLY-EXPOSED STRUCTURAL ALUMINUM FRAMING
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.A6	ALUMINUM FRAMING
05 50 00.C1	PVC RAINWATER LEADER
07 42 41.01	ALUMINUM CEILING PANELS
08 80 00.GL2	10MM CLEAR TEMPERED GLASS
08 80 00.GL3.1	6MM CLEAR LOW-IRON TEMPERED GLASS
08 80 00.GL3.2	6MM LOW-IRON TEMPERED GLASS WITH WHITE CERAMIC ON BACK
26 27 26.A1	LCD SCREEN



1 A6.1 A9.5 TYPE 6 INFO / SERVICE WALL DETAIL SECTION
1 : 5



2 A6.1 A9.5 TYPE 6 INFO / SERVICE WALL DETAIL PLAN (UPPER)
1 : 5



4 A9.5 A9.5 TYPE 6 INFO / SERVICE WALL DETAIL PLAN (LOWER)
1 : 5

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS		ISSUE			REVISIONS		
		1	2015/08/12	50% DETAILED DESIGN			
		2	2015/10/07	75% DETAILED DESIGN			
		2	2016/01/27	100% DETAILED DESIGN (DRAFT)			
REV:	REV:	NO:	DATE:	ISSUED FOR:	REV:	DATE:	

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CHECKED BY: Checker | APPROVED BY: Approver
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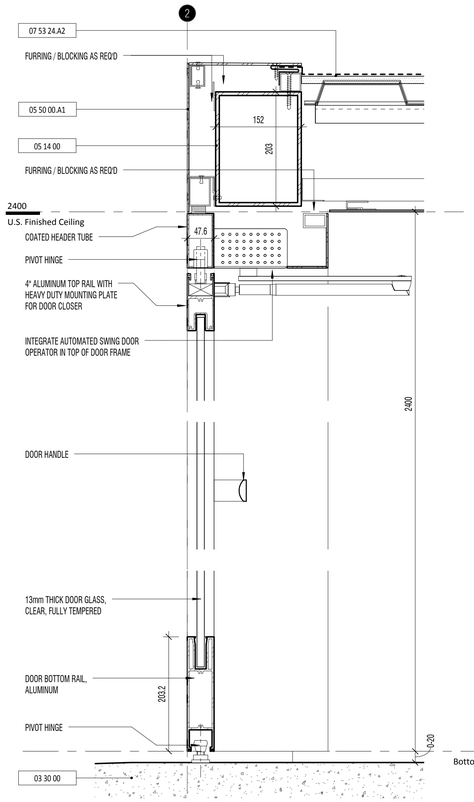
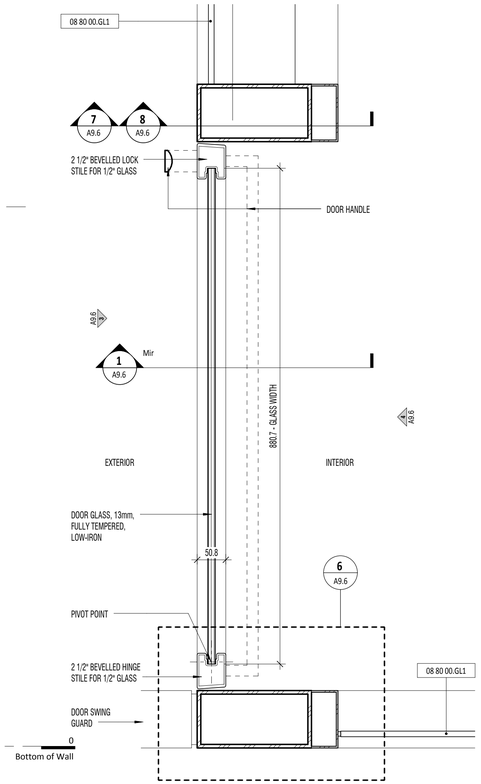
GENERAL
ADDITIONAL INFO / SERVICE WALL DETAILS

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	A9.5	0.	

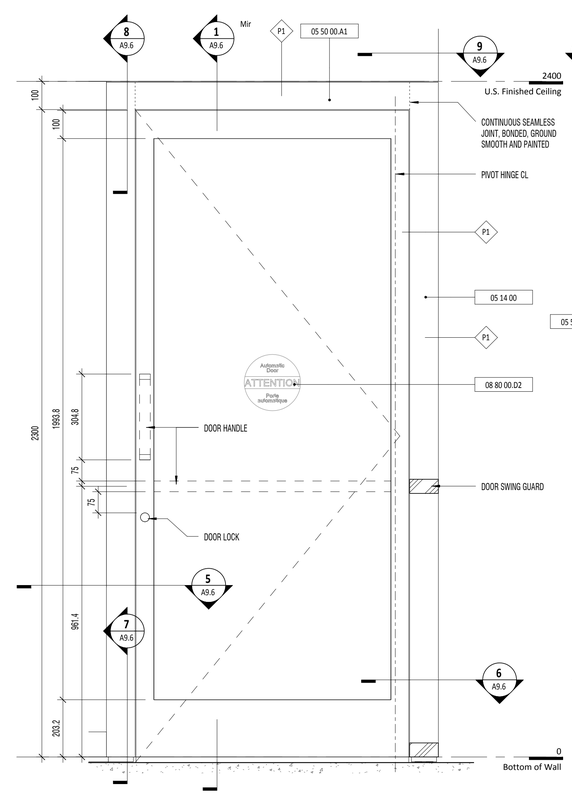
DOOR FRAME



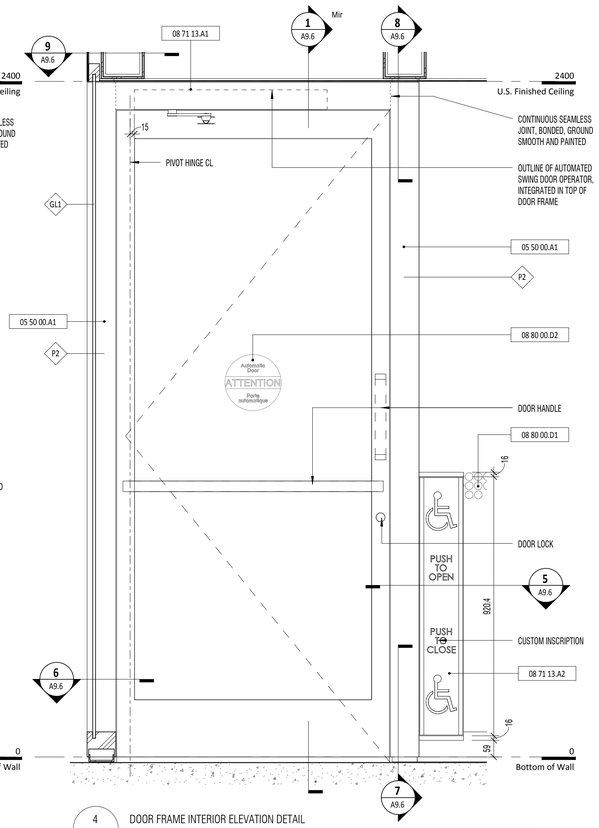
1 A1.3 A9.6 DOOR SECTION DETAIL
1 : 5



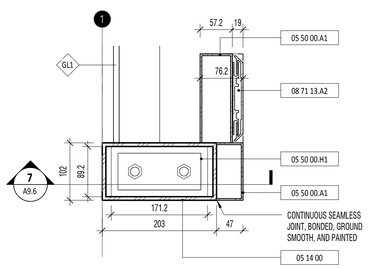
2 A1.1 A9.6 DOOR FRAME PLAN DETAIL
1 : 5



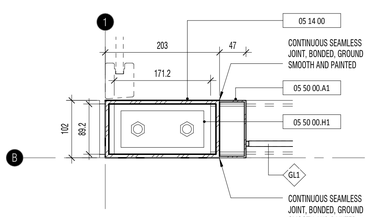
3 A1.2 A9.6 DOOR FRAME EXTERIOR ELEVATION DETAIL
1 : 10



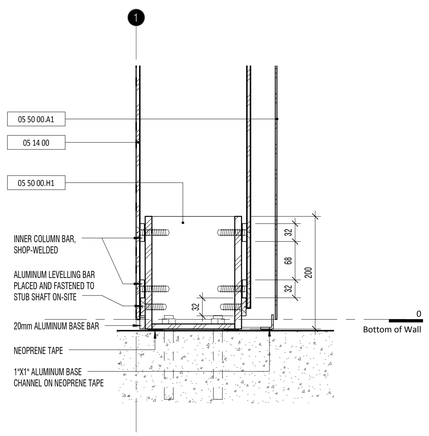
4 A1.3 A9.6 DOOR FRAME INTERIOR ELEVATION DETAIL
1 : 10



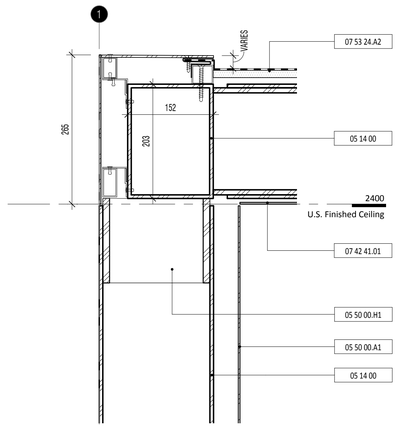
5 A9.6 A9.6 INTERIOR DOOR BUTTON PLAN DETAIL
1 : 5



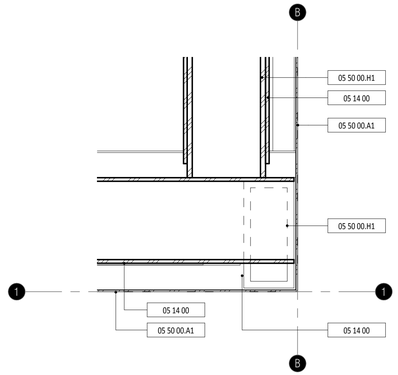
6 A9.6 A9.6 DOOR FRAME BASE PLAN DETAIL
1 : 5



7 A9.6 A9.6 DOOR FRAME BASE SECTION DETAIL
1 : 5



8 A9.6 A9.6 DOOR FRAME TOP SECTION DETAIL
1 : 5



9 A9.6 A9.6 ROOF CORNER PLAN SECTION DETAIL
1 : 5

KEYNOTE LEGEND

NO.	DESCRIPTION
03 30 00	CAST-IN-PLACE CONCRETE
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.H1	ALUMINUM STUB SHAFT CONNECTION
07 42 41.01	ALUMINUM CEILING PANELS
07 53 24.A2	EPDM MEMBRANE ROOF ON 13mm SHEATHING BOARD
08 71 13.A1	AUTOMATIC DOOR OPERATOR
08 71 13.A2	AUTOMATIC DOOR OPERATOR BUTTON
08 80 00.D1	DISTRACTION DECAL
08 80 00.D2	AUTOMATIC DOOR SIGN
08 80 00.GL1	10MM CLEAR TEMPERED GLASS WITH PYROLITIC LOW-E COATING

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS

REV:	REV:

ISSUE

NO:	DATE:	ISSUED FOR:
1	2015/08/12	50% DETAILED DESIGN
2	2015/10/07	75% DETAILED DESIGN
2	2016/01/27	100% DETAILED DESIGN (DRAFT)

REVISIONS

REV:	DATE:

DRAWN BY: Author	DESIGNED BY: gh3
CHECKED BY: Checker	APPROVED BY: Approver
SCALE: As indicated	FULL SIZE ONLY

seal:

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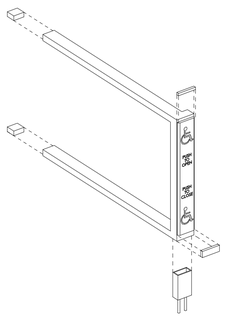
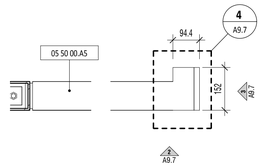
GO SHELTER DESIGNS
GENERAL
DOOR FRAME DETAILS

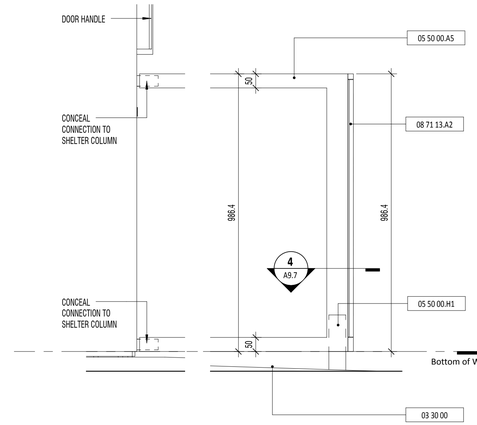
CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	A9.6	0.	

DOOR SWING GUARDS

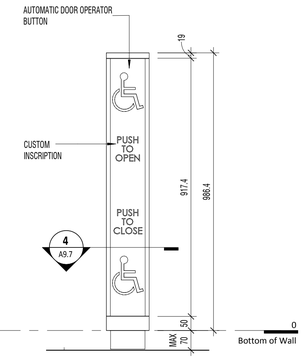




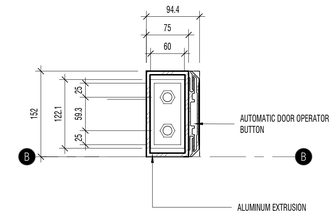
1 / A9.7 DOOR GUARD PLAN DETAIL
1 : 10



2 / A9.7 DOOR GUARD SIDE ELEVATION
1 : 10



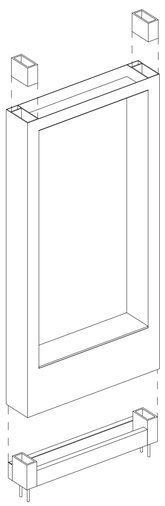
3 / A9.7 DOOR GUARD FRONT ELEVATION
1 : 10

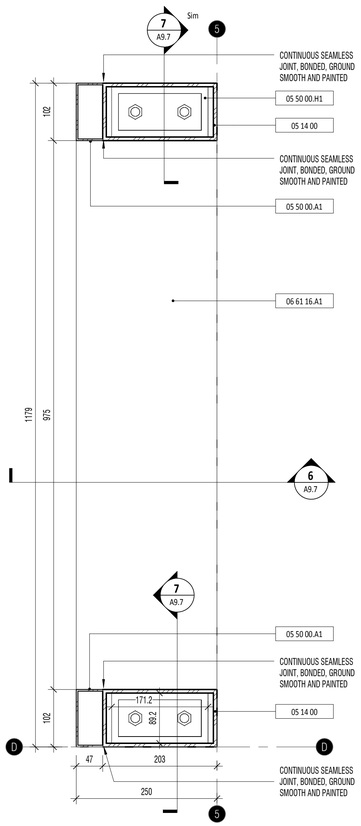


4 / A9.7 DOOR GUARD PLAN SECTION DETAIL
1 : 5

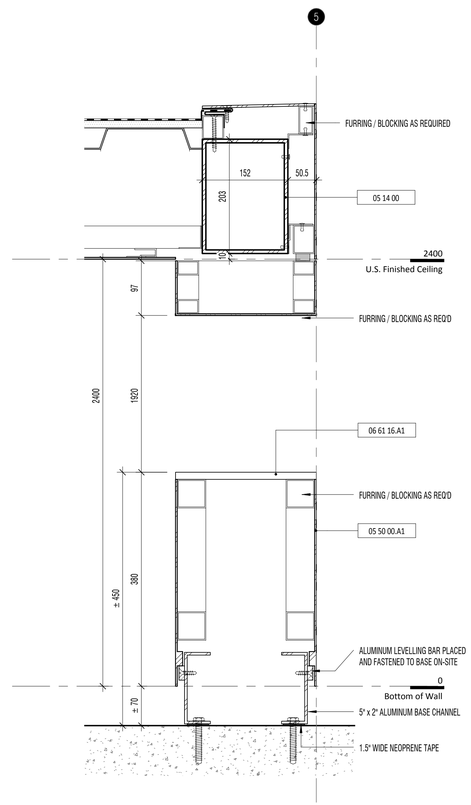
KEYNOTE LEGEND	
NO.	DESCRIPTION
03 30 00	CAST-IN-PLACE CONCRETE
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.A5	ALUMINUM EXTRUSION
05 50 00.H1	ALUMINUM STUB SHAFT CONNECTION
06 61 16.A1	13mm WHITE CORIAN
08 71 13.A2	AUTOMATIC DOOR OPERATOR BUTTON

OPEN FRAME

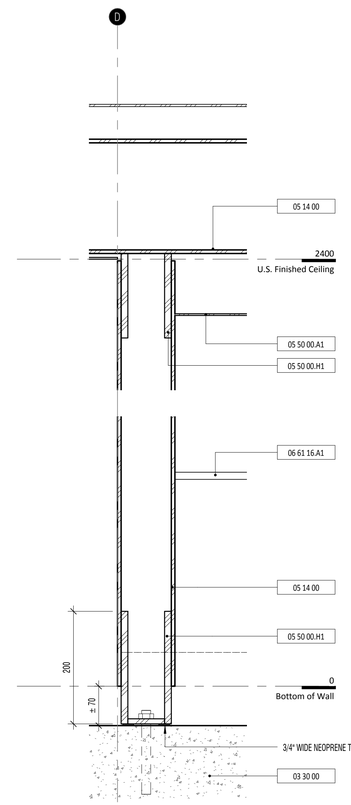




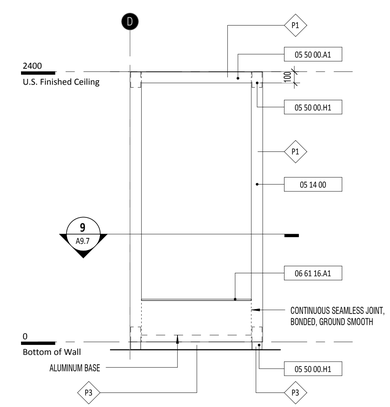
9 / A9.7 OPEN FRAME PLAN DETAIL
1 : 5



6 / A9.7 OPEN FRAME SECTION DETAIL
1 : 5



7 / A9.7 OPEN FRAME SECTION DETAIL1
1 : 5



8 / A9.7 OPEN FRAME EXTERIOR ELEVATION DETAIL
1 : 25

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS		ISSUE			REVISIONS		
		1	2015/08/12	50% DETAILED DESIGN			
		2	2015/10/07	75% DETAILED DESIGN			
		2	2016/01/27	100% DETAILED DESIGN (DRAFT)			
REV:	REV:	NO:	DATE:	ISSUED FOR:	REV:	DATE:	

DRAWN BY: Author	DESIGNED BY: gh3
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SCALE: As indicated	FULL SIZE ONLY

seal:

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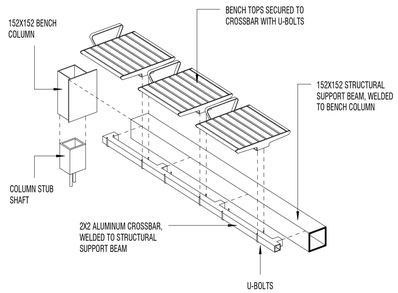
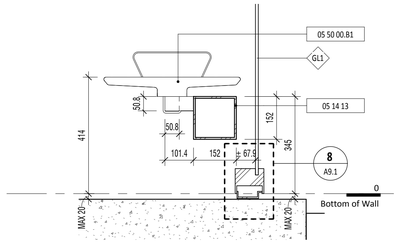
GO SHELTER DESIGNS
GENERAL
SWING GUARD AND OPEN FRAME DETAILS

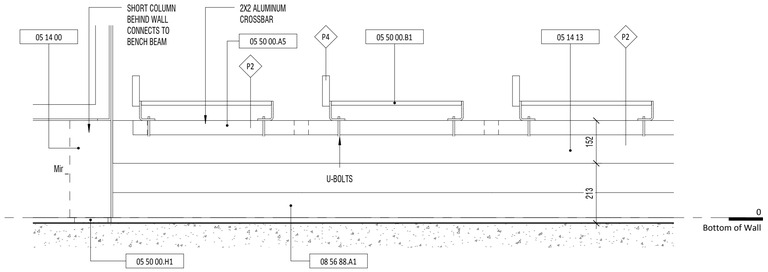
CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	A9.7	0.	

BENCHES

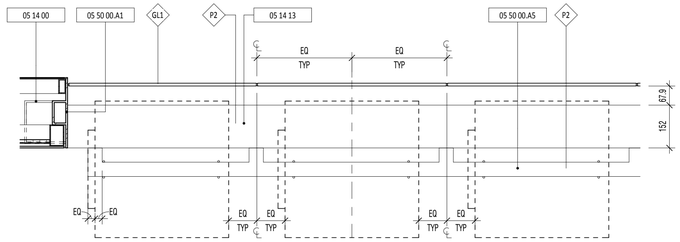




1 A1.3 A9.8 BENCH SECTION DETAIL
1 : 10



2 A1.3 A9.8 BENCH ELEVATION DETAIL
1 : 10

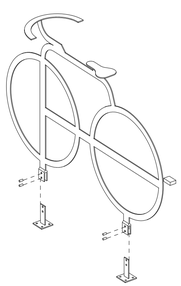


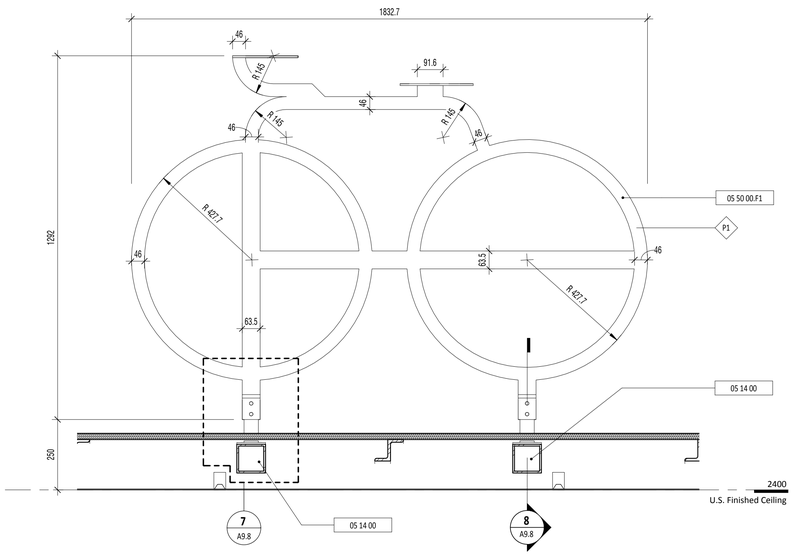
3 A1.1 A9.8 BENCH PLAN DETAIL
1 : 10

KEYNOTE LEGEND

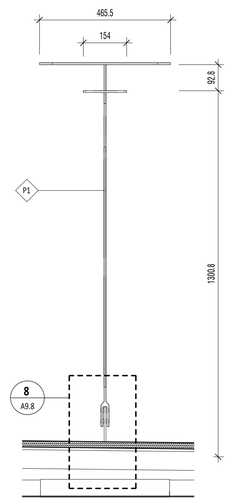
NO.	DESCRIPTION
05 14 00	STRUCTURAL ALUMINUM FRAMING
05 14 13	ARCHITECTURALLY-EXPOSED STRUCTURAL ALUMINUM FRAMING
05 50 00.A1	3mm ALUMINUM PLATE
05 50 00.A3	6.4mm ALUMINUM PLATE
05 50 00.A5	ALUMINUM EXTRUSION
05 50 00.B1	BENCH SEATS
05 50 00.F1	ALUMINUM BIKE SYMBOL
05 50 00.H1	ALUMINUM STUB SHAFT CONNECTION
07 53 24.A1	EPDM MEMBRANE ROOF ON 22mm PLYWOOD DECK
08 56 88.A1	CUSTOM ALUMINUM GLAZING SHOE

GO BIKE SYMBOL

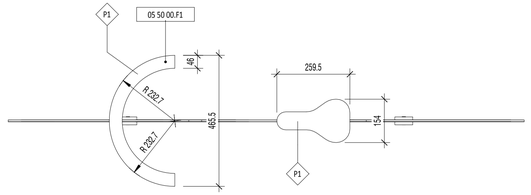




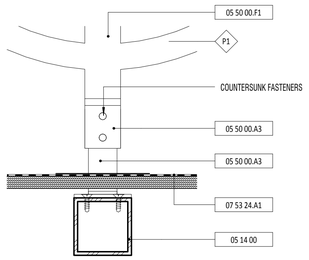
4 A4.2 A9.8 BIKE SYMBOL LONG ELEVATION
1 : 10



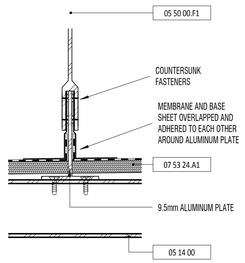
5 A4.2 A9.8 BIKE SYMBOL SHORT ELEVATION
1 : 10



6 A4.1 A9.8 BIKE PLAN DETAIL
1 : 10



7 A9.8 A9.8 BIKE SYMBOL BASE SECTION DETAIL 1
1 : 5



8 A9.8 A9.8 BIKE SYMBOL BASE SECTION DETAIL 2
1 : 5

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS

REV:	REV:

ISSUE

NO:	DATE:	ISSUED FOR:
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2	2016/01/27	100% DETAILED DESIGN (DRAFT)

REVISIONS

REV:	DATE:	
1	2015/08/12	50% DETAILED DESIGN

DRAWN BY: JD
DESIGNED BY: gh3
CHECKED BY: PH 2015/08/12
APPROVED BY: 2015/08/12
SCALE: As indicated
FULL SIZE ONLY

seal:

gh3 architecture
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GO SHELTER DESIGNS
GENERAL
FURNISHINGS DETAILS

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	A9.8	0.	

LUMINAIRE SYMBOLS

A / A	SURFACE / RECESSED LUMINAIRE. LETTER DENOTES TYPE, TYPICAL FOR ALL LIGHTS
A / A	SURFACE / RECESSED DOWN LIGHT - SQUARE SHAPE
A / A	SURFACE / RECESSED DOWN LIGHT - ROUND SHAPE
A	WALL MOUNT LUMINAIRE - LINEAR
A	WALL MOUNT LUMINAIRE - ROUND SHAPE
A	WALL MOUNT LUMINAIRE - SQUARE SHAPE
A	SURFACE MOUNT STRIP LUMINAIRE
A	TRACK LIGHTING - TRIANGLES REPRESENT NUMBER OF HEADS
A	NIGHT LIGHT
	SINGLE LUMINAIRE EXTERIOR LAMP STANDARD
	DOUBLE LUMINAIRE EXTERIOR LAMP STANDARD
A	LANDSCAPE SPOT LIGHT
	EMERGENCY LIGHTING BATTERY PACK
	EMERGENCY LIGHTING BATTERY PACK WITH REMOTE HEADS
	EMERGENCY LOW VOLTAGE REMOTE HEAD - WALL MOUNTED
	EMERGENCY LOW VOLTAGE REMOTE HEAD - CEILING MOUNTED
	EXIT LIGHT - CEILING MOUNTED LINES OR ARROWS ON BOTH SIDES INDICATED DOUBLE SIDED SIGN, TYPICAL
	EXIT LIGHT - WALL MOUNTED
	EXIT LIGHT WITH REMOTE HEADS - CEILING MOUNTED
	EXIT LIGHT WITH REMOTE HEADS- WALL MOUNTED

LIGHTING CONTROL

3 3D	LINE VOLTAGE SWITCH : 3 - 3 WAY 4 - 4 WAY D - DIMMER F - FAN SWITCH P - C/W PILOT LIGHT V - VARIABLE SPEED T - TIMER x - SWITCHING CIRCUIT
OS	LINE VOLTAGE OCCUPANCY SENSOR - WALL MOUNTED
OS	LINE VOLTAGE OCCUPANCY SENSOR - CEILING MOUNTED
	LINE VOLTAGE COMBINATION OCCUPANCY SENSOR AND SWITCH
a	LOW VOLTAGE SWITCH
	LOW VOLTAGE MASTER SWITCH
	LOW VOLTAGE COMBINATION OCCUPANCY SENSOR AND SWITCH
OS	LOW VOLTAGE OCCUPANCY SENSOR - WALL MOUNTED
OS	LOW VOLTAGE OCCUPANCY SENSOR - CEILING MOUNTED
PC	PHOTOCELL
TC	TIME CLOCK

COMMUNICATIONS SYMBOLS

	DATA OUTLET
	TELEPHONE OUTLET
	COMBINATION DATA - TELEPHONE OUTLET
	CATV OUTLET
	SPECIAL PURPOSE COMMUNICATIONS OUTLET
WAP	WIRELESS ACCESS POINT
PP	PATCH PANEL
DR	COMMUNICATIONS DATA RACK

SOUND SYSTEM SYMBOLS

MIC	MICROPHONE
PS	PAGING STATION
ALS	AMBIENT NOISE LEVEL SENSOR
AMP	AMPLIFIER
S	SPEAKER - CEILING MOUNTED
S	SPEAKER - WALL MOUNTED
V	VOLUME CONTROL
	SOUND MASKING SPEAKER
	SOUND SYSTEM HORN
	SOUND SYSTEM BUZZER
	SOUND SYSTEM BELL
M	LOCAL INTERCOM MASTER STATION
S	LOCAL INTERCOM STAFF STATION
D	LOCAL INTERCOM DOOR STATION

POWER SYMBOLS

	15AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT DUPLEX RECEPTACLE
	15AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT GROUND FAULT CIRCUIT INTERRUPTER (GFI) DUPLEX RECEPTACLE
	15AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT ISOLATED GROUND (IG) DUPLEX RECEPTACLE
	15AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT ARC FAULT CIRCUIT INTERRUPTER (AFCI) DUPLEX RECEPTACLE
	15AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT SWITCHED DUPLED RECEPTACLE
	15AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT QUAD RECEPTACLE
	15AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT GROUND FAULT CIRCUIT INTERRUPTER (GFI) QUAD RECEPTACLE
	15AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT SINGLE RECEPTACLE
	20AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT T-SLOT DUPLEX RECEPTACLE
	20AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT GROUND FAULT CIRCUIT INTERRUPTER (GFI) T-SLOT DUPLEX RECEPTACLE
	20AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT T-SLOT QUAD RECEPTACLE
	20AMP 125 VOLT WALL MOUNT / COUNTER HEIGHT GROUND FAULT CIRCUIT INTERRUPTER (GFI) T-SLOT QUAD RECEPTACLE
	208 VOLT WALL MOUNT / COUNTER HEIGHT SINGLE RECEPTACLE
	DIRECT EQUIPMENT CONNECTION AS NOTED ON PLAN
	SPECIAL RECEPTACLE AS NOTED ON PLAN
	PACK POLE
JB	ELECTRICAL JUNCTION BOX
	GROUNDING ROD
	GROUNDING BAR
	CLOCK - WALL MOUNTED
	CLOCK - CEILING MOUNTED
	PARKING LOT RECEPTACLE - SINGLE / DOUBLE
EBH - #	ELECTRIC BASEBOARD HEATER # DENOTES UNIT IDENTIFICATION
	208 VOLT RECESSED ELECTRICAL PANEL
	600 VOLT RECESSED ELECTRICAL PANEL
	208 VOLT SURFACE MOUNT ELECTRICAL PANEL
	600 VOLT SURFACE MOUNT ELECTRICAL PANEL
	MAIN / CENTRAL DISTRIBUTION CENTER OR SWITCHGEAR
M	ELECTRICAL MOTOR CONNECTION
M	ELECTRICAL MOTOR CONNECTION WITH STARTER REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION
G	ELECTRICAL GENERATOR
(#)	MECHANICAL EQUIPMENT TAG REFER TO EQUIPMENT SCHEDULE # DENOTES UNIT IDENTIFICATION
#	ELECTRICAL KEYED NOTE REFER TO SCHEDULE. # DENOTES KEYED NOTE NUMBER
	CEILING MOUNTED RECEPTACLE
	FLOOR MOUNTED RECEPTACLE

SECURITY SYSTEM SYMBOLS

RX	REQUEST TO EXIT
PB	PUSH BUTTON
PW	AUDIBLE PRE-ARM WARNING DEVICE
MD	MOTION DETECTOR
MAG	MAGNETIC DOOR LOCK
LA	LOCAL ALARM
KP	SECURITY ALARM KEYPAD
IR	INFARED BEAM FOR RELEASING MAGNETIC DOOR LOCKS
GB	SECURITY GLASS BREAK SENSOR
ES	ELECTRIC DOOR STRIKE
DC	DOOR CONTACTOR
SAP	SECURITY ALARM CONTROL PANEL
CR	CARD READER
AS	AUDIBLE SIREN
	CCTV CAMERA

FIRE ALARM SYMBOLS

	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
	SMOKE ALARM
	MANUAL PULL STATION
TS	SPRINKLER TAMPER SWITCH
SV	SPRINKLER SUPERVISORY VALVE
PS	SPRINKLER PRESSURE SWITCH
FS	SPRINKLER FLOW SWITCH
MM	MONITOR MODULE
CM	CONTROL MODULE
ISO	ISOLATION MODULE
	STROBE LIGHT
	HORN
	COMBINATION HORN / STROBE LIGHT
S	EVAC SPEAKER
S	COMBINATION EVAC SPEAKER / STROBE
F	BUZZER
	BELL
FH	FIREMAN'S HANDSET
DH	DOOR HOLDER
FATC	FIRE ALARM TERMINATION CABINET
ANN	REMOTE ANNUNCIATION PANEL
FACP	FIRE ALARM CONTROL PANEL
CACF	CENTRAL ALARM CONTROL FACILITY

SINGLE LINE SYMBOLS

	BREAKER
	FUSE
	DRAW OUT BREAKER
	DRAW OUT FUSE
	SOLID SWITCH DISCONNECT SWITCH
	INTERNAL FUSED DISCONNECT
	INTERNAL MOTOR STARTER
	EXTERNAL SOLID DISCONNECT SWITCH
	EXTERNAL FUSED DISCONNECT SWITCH
	CONTACTOR
UPS	UNINTERRUPTIBLE POWER SUPPLY
TVSS	TRANSIENT VOLTAGE SURGE PROTECTOR
ST	SHUNT TRIP RELAY
FR	2 HOUR FIRE RATED CABLES
M	UTILITY METER
M	INFORMATION METER
	GROUND CONNECTION - EARTH POTENTIAL
	CURRENT TRANSFORMER
	ELECTRICAL TRANSFORMER - DELTA : WYE
	ELECTRICAL PANEL BOARD
	AUTOMATIC TRANSFER SWITCH

ABBREVIATIONS

A	AMPERE	MCB	MAIN CIRCUIT BREAKER
AT	AMPERE TRIP	MH	MOUNTING HEIGHT
AF	AMPERE FRAME	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MOCP	MAXIMUM OVERCURRENT PROTECTION
AWG	AMERICAN WIRE GUIDE	MTG	MOUNTING
C	CONDUIT	N	NEUTRAL
CACF	CENTRAL ALARM CONTROL FACILITY	P	POLE OR PHASE
CB	CIRCUIT BREAKER	PNL	PANELBOARD
CKT	CIRCUIT	QTY	QUANTITY
EC	EMPTY CONDUIT	REC	RECESSED
ER	EXISTING TO REMAIN	RL	RELOCATE EXISTING DEVICE
FLA	FULL LOAD AMPS	RM	REMOVE EXISTING DEVICE
FSS	FUSED SAFETY SWITCH	RR	REMOVE AND REPLACE WITH NEW DEVICE
GFI, GFCI	GROUND FAULT INTERRUPTER	V	VOLTAGE / VOLTS
GND	GROUND	W	WATTS
HP	HORSEPOWER	WP	WEATHERPROOF
IG	ISOLATED GROUND	XFMR	TRANSFORMER
KW	KILOWATT		
KVA	KILO VOLT AMPERES		
MCA	MINIMUM CIRCUIT AMPACITY		

SHEET LIST

No.	DESCRIPTION
E0.1	ELECTRICAL SYMBOLS LEGEND
E0.2	ELECTRICAL INTERCONNECTION DIAGRAM
E1.1	SHELTER TYPE 1 - RAIL LINE STATIONS PASSENGER SHELTER - POWER AND LIGHTING PLANS
E2.1	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER - POWER AND LIGHTING PLANS
E2.2	SHELTER TYPE 2 - CARPOOL LOTS PASSENGER SHELTER - HEAT TRACE PLAN
E3.1	SHELTER TYPE 3 - ON STREET BUS PASSENGER SHELTER - POWER PLAN
E4.1	SHELTER TYPE 4 - SMALL BIKE SHELTER - POWER AND LIGHTING PLANS
E5.1	SHELTER TYPE 5 - LARGE BIKE SHELTER - POWER AND LIGHTING PLANS
E6.1	SHELTER TYPE 6 - AMENITIES SHELTER - POWER AND LIGHTING PLANS

TAG	DESCRIPTION	MODEL	LOCATION	POWER	VOLTAGE	LAMP TYPE	INITIAL ILLUMINANCE	CCT	CRI	REMARKS	QUANTITY
A1	LINEAR LED LUMINAIRE WITH MINIMUM IP66 INGRESS PROTECTION, DIFFUSE LENS, AND 0-10 V DIMMABLE DRIVER - 646 mm IN LENGTH	LED LINEAR - XOOLIGHT HYDRA SERIES	SHELTER - TYPE 1	25 VA	120 V	LED	2000 lm	4000 K	85+		3
A2	LINEAR LED LUMINAIRE WITH MINIMUM IP66 INGRESS PROTECTION, DIFFUSE LENS, AND 0-10 V DIMMABLE DRIVER - 958.5 mm IN LENGTH	LED LINEAR - XOOLIGHT HYDRA SERIES	SHELTER - TYPE 2	38 VA	120 V	LED	3000 lm	4000 K	85+		18
A4	LINEAR LED LUMINAIRE WITH MINIMUM IP66 INGRESS PROTECTION, DIFFUSE LENS, AND 0-10 V DIMMABLE DRIVER - 458.5 mm IN LENGTH	LED LINEAR - XOOLIGHT HYDRA SERIES	SHELTER - TYPE 4	13 VA	120 V	LED	1000 lm	4000 K	85+		4
A5	LINEAR LED LUMINAIRE WITH MINIMUM IP66 INGRESS PROTECTION, DIFFUSE LENS, AND 0-10 V DIMMABLE DRIVER - 583.5 mm IN LENGTH	LED LINEAR - XOOLIGHT HYDRA SERIES	SHELTER - TYPE 5	13 VA	120 V	LED	1000 lm	4000 K	85+		4
A6	LINEAR LED LUMINAIRE WITH MINIMUM IP66 INGRESS PROTECTION, DIFFUSE LENS, AND 0-10 V DIMMABLE DRIVER - 583.5 mm IN LENGTH	LED LINEAR - XOOLIGHT HYDRA SERIES	SHELTER - TYPE 6	32 VA	120 V	LED	2000 lm	4000 K	85+		6

METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS

REV: REV:

ISSUED

No.	DATE	DESCRIPTION
1	2015/08/12	50% DETAILED DESIGN
2	2015/10/06	75% DETAILED DESIGN
3	2015/11/02	100% DETAILED DESIGN REVIEW
4	2016/01/26	100% DETAILED DESIGN (DRAFT)
5	2016/01/27	100% DETAILED DESIGN (DRAFT)

REVISIONS

No.	DATE	DESCRIPTION

DRAWN BY: BRM

DESIGNED BY: INTEGRAL GROUP

CHECKED BY: CvB 2016/01/27

APPROVED BY: BG 2016/01/27

SCALE: 1 : 1

FULL SIZE ONLY

seal:

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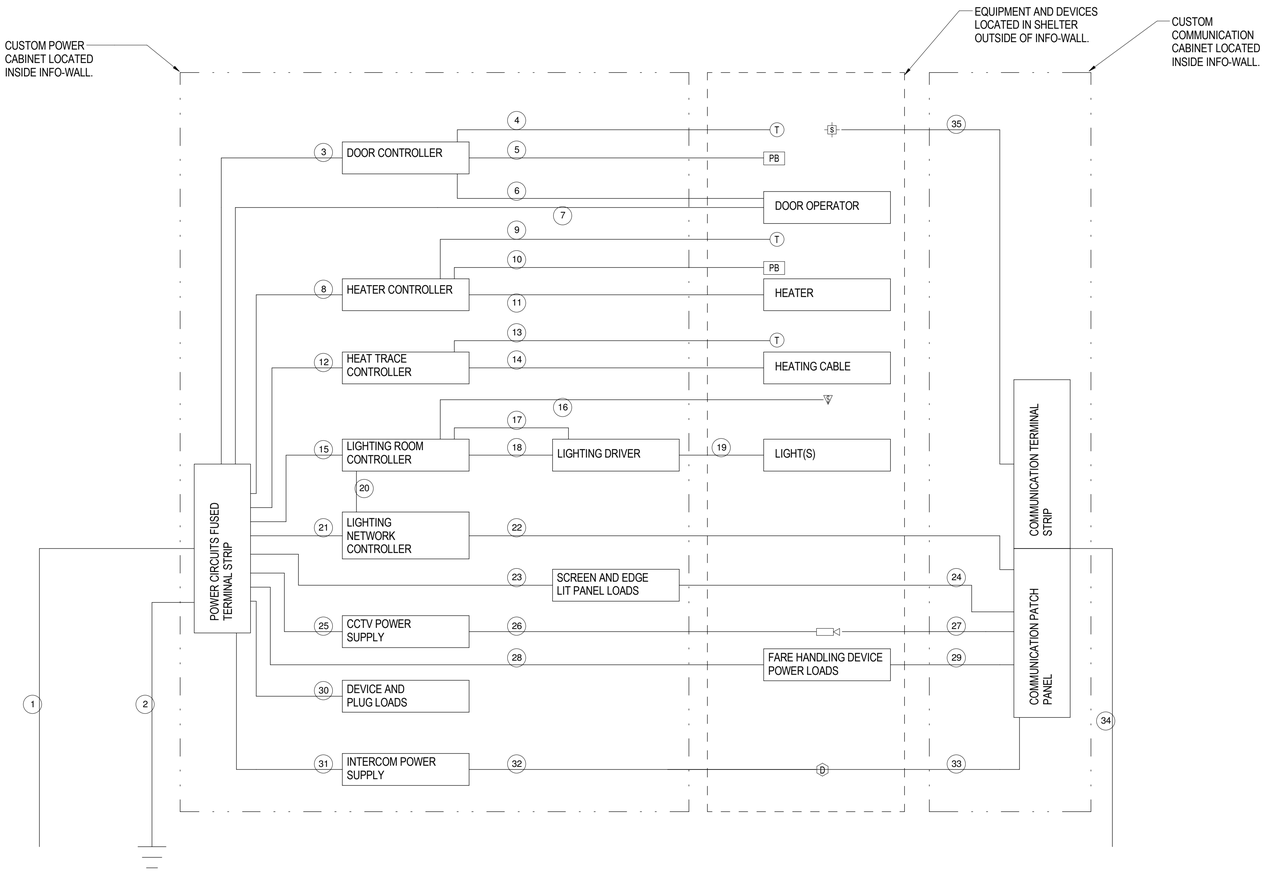
Project Reference No: 210007.000

GO – Metrolinx Shelters

ELECTRICAL SYMBOLS LEGEND

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	E0.1	0.	



1 ELECTRICAL INTERCONNECTION DIAGRAM
N.T.S.

1. INCOMING POWER CIRCUITS. PROVIDE 1 27mm CONDUIT OF SUFFICIENT LENGTH TO RUN FROM CUSTOM BUILT ELECTRICAL CABINET TO 1m PAST THE EDGE OF THE SHELTER. CONDUIT INSTALLATION AND PROVISION OF WIRING BY OTHERS AT TIME OF INSTALLATION ON SITE.
2. ELECTRICAL SYSTEM GROUNDING. PROVIDE 1 27mm CONDUIT OF SUFFICIENT LENGTH TO RUN FROM CUSTOM BUILT ELECTRICAL CABINET TO 1m PAST THE EDGE OF THE SHELTER. PROVIDE A GROUNDING BAR INSIDE ELECTRICAL CABINET FOR FUTURE CONNECTION TO GROUNDING SYSTEM. GROUND ROD, GROUND WIRE AND CONDUIT INSTALLATION WILL BE BY OTHERS AT TIME OF INSTALLATION ON SITE.
3. 15A 120V CIRCUIT FOR DOOR CONTROLLER, SHARE CIRCUIT WITH CCTV POWER SUPPLY AND INTERCOM POWER SUPPLY. PROVIDE A 15A FUSE IN TERMINAL STRIP, AND #12AWG CONDUCTORS FROM STRIP TO CONTROLLER.
4. LOW VOLTAGE CONTROL WIRING FROM LOW-VOLTAGE THERMOSTAT TO DOOR CONTROLLER. PROVIDE #14AWG CONDUCTORS FROM THERMOSTAT TO DOOR CONTROLLER.
5. LOW VOLTAGE CONTROL WIRING FROM PUSH BUTTON TO DOOR CONTROLLER. PROVIDE #14 AWG CONDUCTORS FROM THERMOSTAT TO DOOR CONTROLLER.
6. LOW VOLTAGE CONTROL WIRING FROM DOOR CONTROLLER TO DOOR OPERATOR. PROVIDE #14 AWG CONDUCTORS FROM CONTROLLER TO DOOR OPERATOR.
7. 15A 120V CIRCUIT TO DOOR OPERATOR(S), PROVIDE A 15 A FUSE IN TERMINAL STRIP, AND #12AWG CONDUCTORS FROM TERMINAL STRIP TO OPERATOR. SHARE ONE CIRCUIT FOR ALL DOOR OPERATORS.
8. 20A 208V CIRCUIT FOR INFRARED HEATER. PROVIDE A 20 A FUSE IN TERMINAL STRIP AND #12AWG CONDUCTORS FROM TERMINAL STRIP TO CONTROLLER. PROVIDE A DEDICATED CIRCUIT AND CONTROLLER FOR EACH HEATER.
9. LOW VOLTAGE CONTROL WIRING FROM THERMOSTAT TO HEATER CONTROLLER. PROVIDE #14AWG CONDUCTORS FROM THERMOSTAT TO ALL CONTROLLERS.
10. LOW VOLTAGE CONTROL WIRING FROM PUSH BUTTON TO HEATER CONTROLLER. PROVIDE #14AWG CONDUCTORS FROM PUSH BUTTON TO ALL CONTROLLERS.
11. 208V POWER WIRING FROM CONTROLLER TO INFRARED HEATER. PROVIDE #10AWG CONDUCTORS FROM CONTROLLER TO HEATER.
12. 20A 208V CIRCUIT FOR ELECTRIC HEAT TRACE. PROVIDE 20 A FUSE IN TERMINAL STRIP, AND #12AWG CONDUCTORS FROM TERMINAL STRIP TO CONTROLLER.
13. LOW VOLTAGE SENSOR WIRE. INSTALL HEAT TRACE TEMPERATURE SENSOR ON SHELTER ROOF. PROVIDE #14AWG CONDUCTORS FROM SENSOR TO CONTROLLER.
14. 208V POWER WIRING FROM CONTROLLER TO HEATING CABLE CONNECTION. MOUNT WEATHERPROOF JUNCTION BOX ON SHELTER ROOF FOR CONNECTION TO HEATING CABLE. PROVIDE #10AWG CONDUCTORS FROM CONTROLLER TO JUNCTION.
15. 15A 120V CIRCUIT FOR LIGHT FIXTURES. PROVIDE 15 A FUSE IN TERMINAL STRIP, AND #12AWG CONDUCTORS FROM TERMINAL STRIP TO ROOM CONTROLLER. PROVIDE A DEDICATED CIRCUIT TO THE ROOM CONTROLLER FOR EACH DRIVER SUPPLIED WITH THE SHELTER.
16. LOW VOLTAGE LIGHTING CONTROL WIRING. PROVIDE #14AWG CONDUCTORS FROM LIGHTING CONTROL DEVICES TO ROOM CONTROLLER.
17. 0-10V DIMMING SIGNAL FROM ROOM CONTROLLER TO DRIVER(S). PROVIDE WIRING AS PER MANUFACTURER'S RECOMMENDATIONS.
18. 15A 120V CIRCUIT FROM ROOM CONTROLLER TO DRIVER(S). PROVIDE #12AWG CONDUCTORS FROM CONTROLLER TO EACH DRIVER.
19. LOW VOLTAGE POWER WIRING FROM DRIVER(S) TO LIGHT FIXTURES. PROVIDE #12AWG CONDUCTORS FROM DRIVER(S) TO LIGHT FIXTURES.
20. LOW VOLTAGE LIGHTING CONTROL WIRING. PROVIDE WIRING AS PER MANUFACTURER'S RECOMMENDATIONS.
21. 15A 120V CIRCUIT FOR NETWORK LIGHTING CONTROLLER. PROVIDE 15A FUSE IN TERMINAL STRIP AND #12AWG CONDUCTORS FROM TERMINAL STRIP TO CONTROLLER.
22. CAT5 DATA CABLE FROM NETWORK LIGHTING CONTROLLER TO PATCH PANEL IN CUSTOM ELECTRICAL ENCLOSURE.
23. 15A 120V CIRCUIT(S) FOR EDGE LIT LED PANELS AND LCD SCREENS. PROVIDE ONE CIRCUIT FOR EVERY THREE SCREENS. FOR EACH CIRCUIT PROVIDE 15A FUSE IN TERMINAL STRIP AND #12AWG CONDUCTORS FROM TERMINAL STRIP TO DEVICE.
24. CAT5 DATA CABLE FROM EACH LCD SCREEN TO PATCH PANEL IN CUSTOM ELECTRICAL ENCLOSURE.
25. 15A 120V CIRCUIT FOR CCTV POWER SUPPLY, SHARE A CIRCUIT WITH INTERCOM POWER SUPPLY AND DOOR CONTROLLER. PROVIDE 15A FUSE IN TERMINAL STRIP AND #12AWG CONDUCTORS FROM TERMINAL STRIP TO POWER SUPPLY.
26. LOW VOLTAGE POWER WIRING. PROVIDE #14AWG WIRING FROM CCTV POWER SUPPLY TO EACH CCTV CAMERA.
27. CAT5 CABLE FROM EACH CCTV CAMERA TO PATCH PANEL IN CUSTOM ENCLOSURE.
28. 15A 120V CIRCUIT FOR FARE HANDLING DEVICES. PROVIDE ONE CIRCUIT FOR ALL HANDLING DEVICES. PROVIDE 15A FUSE IN TERMINAL STRIP, AND #12 AWG CONDUCTORS FROM TERMINAL STRIP TO HANDLING DEVICE.
29. CAT5 CABLE FROM EACH FARE HANDLING DEVICE TO PATCH PANEL IN CUSTOM ENCLOSURE.
30. 15A 120V CIRCUIT FOR INFO-WALL MOUNTED DEVICES AND PLUGS. PROVIDE 1 CIRCUIT FOR ALL DEVICES. PROVIDE 15A FUSE IN TERMINAL STRIP, AND #12 AWG CONDUCTORS FROM TERMINAL STRIP TO DEVICES.
31. 15A 120V CIRCUIT FOR INTERCOM POWER SUPPLY, SHARE A CIRCUIT WITH DOOR CONTROLLER AND CCTV POWER SUPPLY. PROVIDE 15A FUSE IN TERMINAL STRIP, AND #12AWG CONDUCTORS FROM TERMINAL STRIP TO POWER SUPPLY.
32. LOW VOTLAGE POWER WIRING FROM INTERCOM POWER SUPPLY TO INTERCOM STATION. PROVIDE #14AWG CONDUCTORS FROM POWER SUPPLY TO INTERCOM STATION.
33. CAT5 CABLE FROM INTERCOM STATION TO PATCH PANEL IN CUSTOM ENCLOSURE.
34. INCOMING DATA AND SPEAKER CABLING. PROVIDE A 35mm CONDUIT OF SUFFICIENT LENGTH TO RUN FROM CUSTOM BUILT ELECTRICAL CABINET TO 1m PAST THE EDGE OF THE SHELTER. CONDUIT INSTALLATION AND PROVISION OF WIRING BY OTHERS AT TIME OF INSTALLATION ON SITE.
35. SPEAKER CABLING. PROVIDE #14AWG CONDUCTOR FROM LOW VOLTAGE TERMINAL STRIP TO SPEAKER.

METRIC
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METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS

REV: REV:

ISSUED

No.	DATE	DESCRIPTION
1	2016/01/26	100% DETAILED DESIGN (DRAFT)
2	2016/01/27	100% DETAILED DESIGN (DRAFT)

REVISIONS

No.	DATE	DESCRIPTION

DRAWN BY: CS
DESIGNED BY: CS
CHECKED BY: CvB 2016/01/27
APPROVED BY: CvB 2016/01/27
SCALE: 1 : 1 FULL SIZE ONLY
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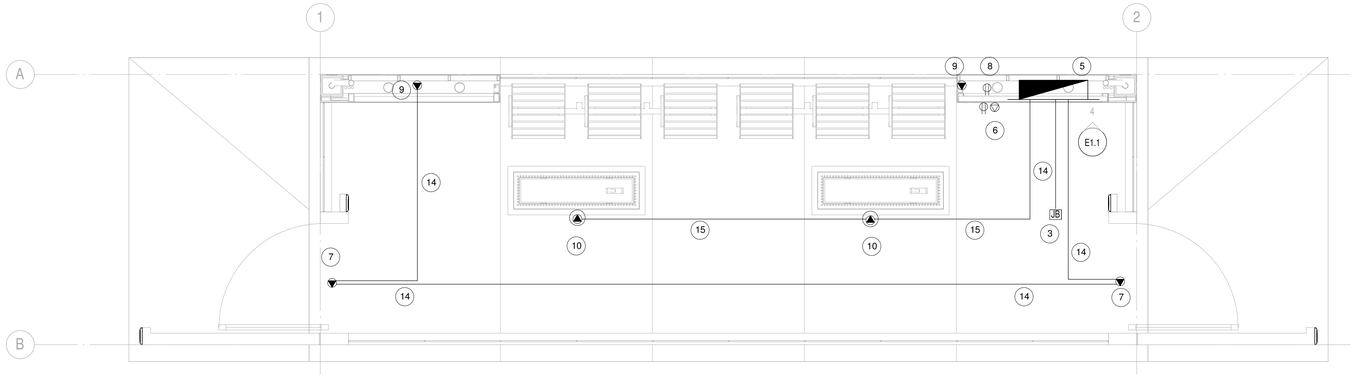
Project Reference No: 210007.000

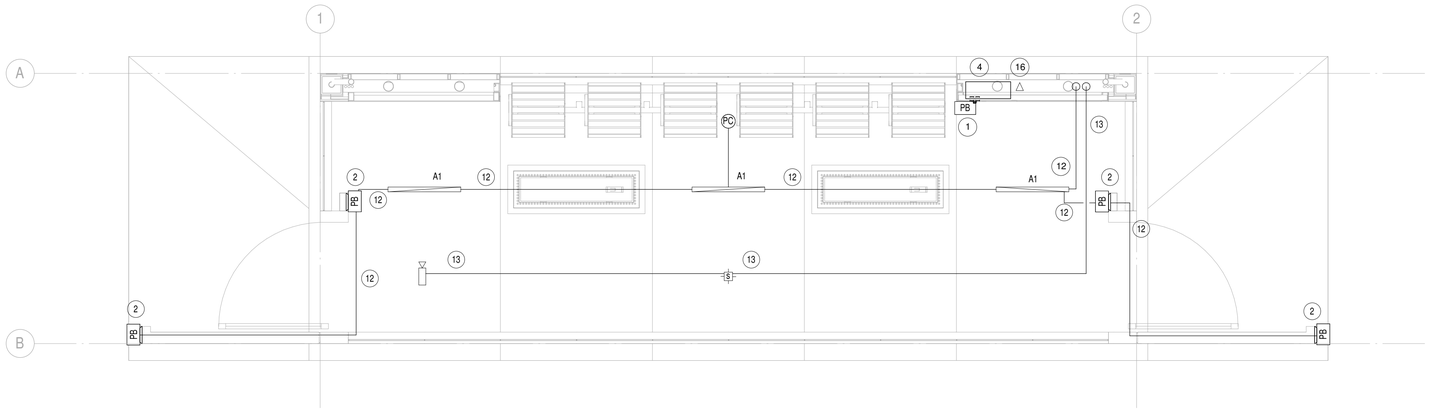
GO – Metrolinx Shelters

ELECTRICAL INTERCONNECTION DIAGRAM

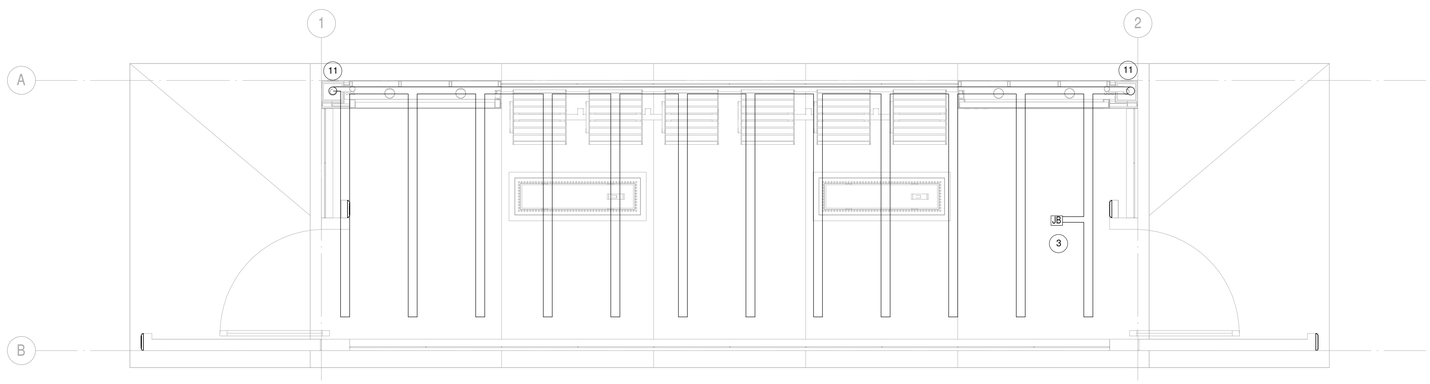
CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ–2014–CON–061	E0.2	0.	



1 SHELTER TYPE 1 - ELECTRICAL LINE VOLTAGE PLAN
1 : 25



2 SHELTER TYPE 1 - ELECTRICAL LOW VOLTAGE PLAN
1 : 25



3 SHELTER TYPE 1 - ELECTRICAL LINE VOLTAGE PLAN
1 : 25

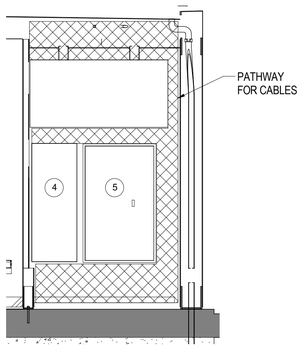
DRAWING NOTES:

1. INSTALL HEAT TRACE PARALLEL ALONG CORRUGATION LINES, AND ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

2. ALL CONDUCTORS INSIDE SHELTER MUST BE PROTECTED BY ARMOURED CABLING.CONSOLIDATION MUST TAKE PLACE IN CEILING MOUNTED DEVICE BOX. NO ACCESS PANELS FOR ADDITIONAL JUNCTION BOXES ARE ALLOWED.

DRAWING KEYNOTES:

1. PUSH BUTTON FOR HEATER CONTROL INPUT.
2. PUSH BUTTON FOR DOOR OPERATORS.
3. EXTERIOR ROOF MOUNTED WEATHER PROOF JUNCTION BOX FOR HEAT TRACE SYSTEM.
4. PROVIDE CUSTOM COMMUNICATION CABINET WITH DIMENSIONS OF 400mm WIDE X 1050mm HIGH X 125mm DEEP. COORDINATE MOUNTING WITH ARCHITECTURAL DETAILS.
5. PROVIDE CUSTOM POWER CABINET WITH DIMENSIONS OF 610mm WIDE X 1050mm HIGH X 125mm DEEP. COORDINATE MOUNTING WITH ARCHITECTURAL DETAILS.
6. USB CHARGING STATION.
7. DOOR OPERATOR.
8. POWER FOR LCD SCREEN. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
9. POWER FOR OPTIONAL LED BACKLIT PANEL.
10. INFRARED HEATERS.
11. PROVIDE HEAT TRACE DOWN RAIN WATER LEADER TO GRADE.
12. CONSOLIDATE ALL LOW VOLTAGE WIRING INTO ONE OF TWO MULTI-CONDUCTOR ARMOURED CABLES FOR ALL #14AWG CONDUCTORS.
13. CONSOLIDATE ALL CAT5 CABLES INTO ONE OF TWO MULTI-CONDUCTOR ARMOURED CABLES.
14. CONSOLIDATE ALL LINE VOLTAGE WIRING INTO ONE OF TWO MULTI-CONDUCTOR ARMOURED CABLES FOR ALL #12AWG CONDUCTORS.
15. CONSOLIDATE ALL #10AWG CABLES INTO ONE OF THREE MULTI-CONDUCTOR ARMOURED CABLES.
16. DATA FOR LCD SCREEN. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.



4 Shelter Type 1 Elevation Info Wall
1 : 25

METRIC

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REVISIONS

No.	DATE	DESCRIPTION

DRAWN BY:
DESIGNED BY:
CHECKED BY: 2016/01/27
APPROVED BY: 2016/01/27
SCALE: As indicated
FULL SIZE ONLY

seal:

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Project Reference No: 210007.000

GO – Metrolinx Shelters

SHELTER TYPE 1 – RAIL LINE STATIONS PASSENGER SHELTER – POWER AND LIGHTING PLANS

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ–2014–CON–061	E1.1	0.	

METRIC

ALL DIMENSION S SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

STRUCTURAL WORK

1. GENERAL

1.1. PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR THE COMPLETION OF THE WORK. BREAKDOWN OF WORK BY TRADE IS FOR GUIDANCE ONLY AND IS NOT NECESSARILY COMPLETE.

1.2. COORDINATE ALL WORK SHOWN ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, ALL OTHER DISCIPLINES AND EXISTING CONDITIONS (EXISTING CONDITIONS ARE ASSUMED). REPORT ANY INCONSISTENCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.

1.3. MAKE GOOD ALL EXISTING WORK DISTURBED BY THE SHORING OPERATIONS, EXCAVATION AND OTHER CONSTRUCTION PROCEDURES.

1.4. DO NOT SCALE THESE DRAWINGS.

1.5. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

2. CODES AND STANDARDS

2.1. COMPLY WITH THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE IN FORCE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.

STRUCTURAL DRAWING LIST

S0.1 -	GENERAL NOTES AND DRAWING LIST
S1.1 -	SHELTER TYPE 1 - RAIL LINE STATIONS PASSENGER SHELTERS - PLANS AND DETAIL
S2.1 -	SHELTER TYPE 2 - CARPOOL LOT SHELTERS - PLANS
S2.2 -	SHELTER TYPE 2 - CARPOOL LOT SHELTERS - DETAILS
S3.1 -	SHELTER TYPE 3 - ON-STREET BUS SHELTERS - PLANS AND DETAILS
S4.1 -	SHELTER TYPE 4 - SMALL BIKE SHELTERS - PLANS AND DETAILS
S5.1 -	SHELTER TYPE 5 - LARGE BIKE SHELTERS - PLANS AND DETAILS
S6.1 -	SHELTER TYPE 6 - AMENITIES SHELTERS - PLANS AND DETAILS

DRAWING LEGEND AND ABBREVIATIONS

UNLESS OTHERWISE NOTED, DESIGN LOADS SHOWN ARE SPECIFIED (UNFACTORED) LOADS, TO BE USED FOR ULS DESIGN. FOR POINT LOADS, IF ONLY ONE LOAD IS GIVEN, CONSIDER IT LIVE LOAD. FOR WIND AND SNOW LOADS TO BE USED FOR SLS DESIGN, REFER TO MATERIAL AND DESIGN DATA NOTES.

AB	ANCHOR BOLT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
Af	FACTORED AXIAL LOAD IN kN (+ INDICATES TENSION, - INDICATES COMPRESSION)
ALT.	ALTERNATE
ARCH.	ARCHITECTURAL
B, BOT.	BOTTOM
BCP	BORED CONCRETE PILE
BEW	BOTTOM EACH WAY
BLL	BOTTOM LOWER LAYER
BM.	BEAM
BOC	ELEV BOT. OF CAISSON (BORED CONCRETE PILE)
BOF	ELEV BOTTOM OF FOOTING
BOP	ELEV BOTTOM OF PILE
BP	BEARING/BASE PLATE
BSMT.	BASEMENT
BUL	BOTTOM UPPER LAYER
BUP	BOTTOM OF UNDERPINNING
CA	COLUMN ABOVE ONLY (NO COLUMN BELOW)
CAM.	CAMBER
CANT.	CANTILEVER
CB	COLUMN BELOW
C/C	CENTRE TO CENTRE
CEL	CUT OFF ELEVATION FOR PILES
CF	CONCRETE FIREPROOFED
CJ	CONTROL JOINT
CL	CLEAR
℄	CENTRELINE
CNT	STEEL DECK CORE NOMINAL THICKNESS
COMP.	COMPOSITE
CONSTR. JT.	CONSTRUCTION JOINT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
CP	CONNECTION PLATE
CWS, CLS, CSS	SEE GENERAL NOTES
DCA	DRILLED CONCRETE ANCHOR
DET.	DETAIL
D.F-L	DOUGLAS FIR-LARCH
DIA.	DIAMETER
DIM.	DIMENSION
DL	DEAD LOAD IN kN/m^2
DMA	DRILLED MASONRY ANCHOR
DN.	DOWN
DO.	DITTO
DP.	DEEP
DWG.	DRAWING
DWL.	DOWEL
EA.	EACH
ECR	EPOXY COATED REINFORCEMENT
EE	EACH END
EF	EACH FACE
EJ, EXP.JT.	EXPANSION JOINT
EL., ELEV.	ELEVATION
EMBED.	EMBEDMENT
EQ.	EQUAL
EX., EXIST.	EXISTING
EXP. JT.	EXPANSION JOINT
FD	FLOOR DRAIN
FF	FAR FACE
FIN.	FINISHED
FL.	FLOOR
FMC	FULL MOMENT CONNECTION
FTG.	FOOTING
f'c	COMPRESSIVE STRENGTH OF CONC IN MPa
fy	YIELD STRENGTH IN MPa
GALV.	GALVANIZED STEEL
GB	GRADE BEAM
GL	GRIDLINE
h	TOTAL THICKNESS
H, HOR.	HORIZONTAL
HDG	HOT DIPPED GALVANIZED
HEF	HORIZONTAL EACH FACE
HH	HOOK-HOOK (HOOK EACH END)
	HOLE THROUGH CONCRETE BEAM
	HOLE THROUGH STEEL BEAM
HIC	HORIZONTAL IN CENTRE
HK.	HOOK
HP	HIGH POINT
IBI	INTEGRITY BARS INTERIOR
IBE	INTEGRITY BARS EXTERIOR
JG	JOIST GIRDER
ld	TENSION DEVELOPMENT LENGTH OF REBAR
ldc	COMPRESSION DEVELOPMENT LENGTH OF REBAR
L	SINGLE ANGLE
⅃L	DOUBLE ANGLES

LE	LEFT END
LG.	LONG/LENGTH
UL	UPPER LEVEL BM/JOIST
LL	LOWER LEVEL BM/JOIST
LL	LIVE LOAD IN kN/m^2
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSV	LONG SIDE VERTICAL
LSH	LONG SIDE HORIZONTAL
LP	LOW POINT
MAX.	MAXIMUM
Mf	FACTORED MOMENT IN kN.m
MJ	MOVEMENT JOINT
MIN.	MINIMUM
	MOMENT CONNECTION
MTf	FACTORED TORSION IN kN.m
NBC	NATIONAL BUILDING CODE OF CANADA
NF	NEAR FACE
NTS	NOT TO SCALE
OBC	ONTARIO BUILDING CODE
O/C	ON CENTRE
O/O	OUT TO OUT
OPEN, OPG.	OPENING
P	POINT LOAD IN kN
Pf	FACTORED POINT LOAD IN kN
PL	PLATE
RA	ROCK ANCHOR
RD	ROOF DRAIN
REINF.	REINFORCEMENT
RE	RIGHT END
RF	RIGID FRAME
Rf	FACTORED VERTICAL REACTION IN kN
RHf	FACTORED HORIZONTAL REACTION IN kN
SCA	
SDF	STEP DOWN FOOTING IN DIRECTION OF ARROW
SDF	STEP DOWN FOOTING
SDL	SUPERIMPOSED DL (EXCLUDING SELF-WEIGHT) IN kN/m^2
SECT.	SECTION
SIM.	SIMILAR
SJ	STEEL JOIST
SLS	SERVICEABILITY LIMIT STATE
SL.	SLAB
SL1, SL2	SHELF ANGLE 1, ETC
SOG	SLAB ON GRADE
SPF	SPRUCE PINE FIR
STIR.	STIRRUP
STIFF.	STIFFENER
t	THICKNESS
T	TOP
TEW	TOP EACH WAY
THK.	THICK
TJ	TIE JOIST
TLE	TOP LEFT END
TLL	TOP LOWER LAYER
TOF	TOP OF FOOTING
TOP	TOP OF PILE
TPC	TOP OF PILE CAP
TRE	TOP RIGHT END
TUL	TOP UPPER LAYER
TYP.	TYPICAL
ULS	ULTIMATE LIMIT STATE
U/S	UNDERSIDE
U/N	UNLESS NOTED
UPT.	UPTURNED
VB	VERTICAL BRACING
V, VEF	VERTICAL, VERTICAL EACH FACE
Vf	FACTORED SHEAR IN kN
VIC	VERTICAL IN CENTRE
V, VERT., VERTS.	VERTICAL, VERTICALS
VSC	VERTICALLY SLOTTED CONNECTION TO ALLOW FOR DEFLECTION
VXB	VERTICAL 'X' BRACING
WC	WIND COLUMN
WWA	WINDOW WASHING ANCHORS
WWF	WELDED WIRE FABRIC
ZRP	ZINC RICH PAINT
X	SECTION NUMBER
Y	SECTION DRAWING
Z	REFERENCE
	MASONRY WALL
	FULLY GROUTED MASONRY WALL
	STRUCTURAL PRECAST CONCRETE

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NOT FOR CONSTRUCTION

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS

REV:	REV:

ISSUE

NO:	DATE:	ISSUED FOR:
1	Aug 12, 2015	50% Detailed Design

REVISIONS

REV:	DATE:	
1	2015/08/12	50% DETAILED DESIGN
2	2015/10/02	75% DETAILED DESIGN
3	2016/01/26	100% DETAILED DESIGN

DRAWN BY: DEB
DESIGNED BY: PYS
CHECKED BY: RYS 2015/08/12
APPROVED BY: Approver 2015/08/12
SCALE: 1 : 25 FULL SIZE ONLY

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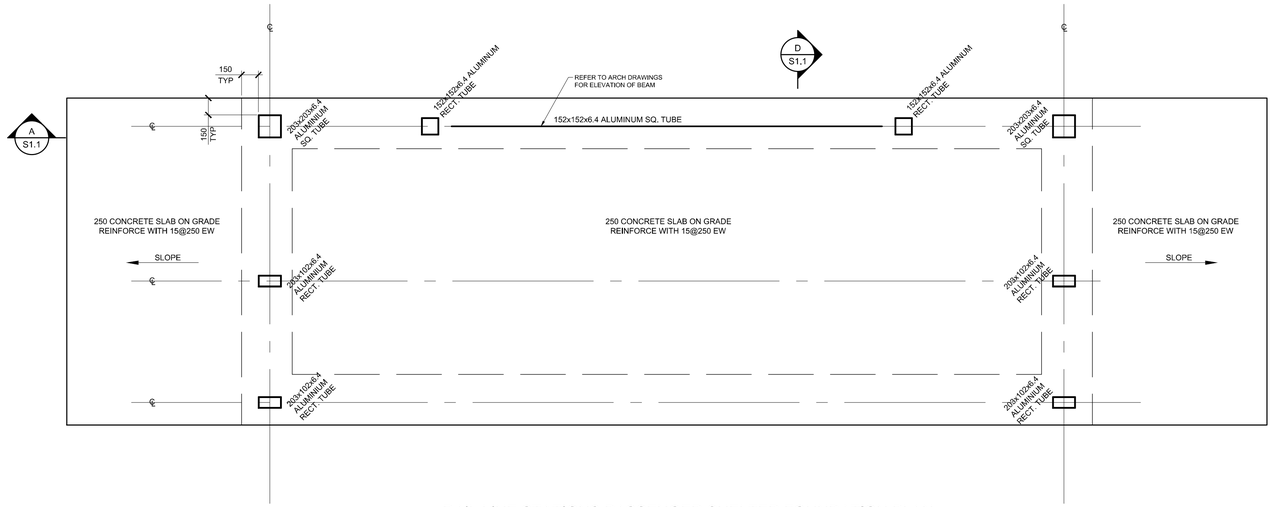
GO SHELTER DESIGNS
GENERAL NOTES AND DRAWING LIST

CONTRACT NO: RQQ-2014-CON-061
DRAWING NO: S0.1
REV. 0.
SHEET

PLOTTED BY: SKC ● PLOTTED FOR: --- ● PLOT DATE & TIME: 2016-01-26 2:20:35 PM ● PLOT SCALE: 1:25.4 AT 8.5"x11" SHEET SIZE. READ DRAWING ACCORDINGLY.
FILE: P:\Y126\2015\15Y126-054A - RE-BRANDED GO SHELTERS DD\DRAWINGS\STRUCT\CAD\15Y126-054A - S0.1.DWG

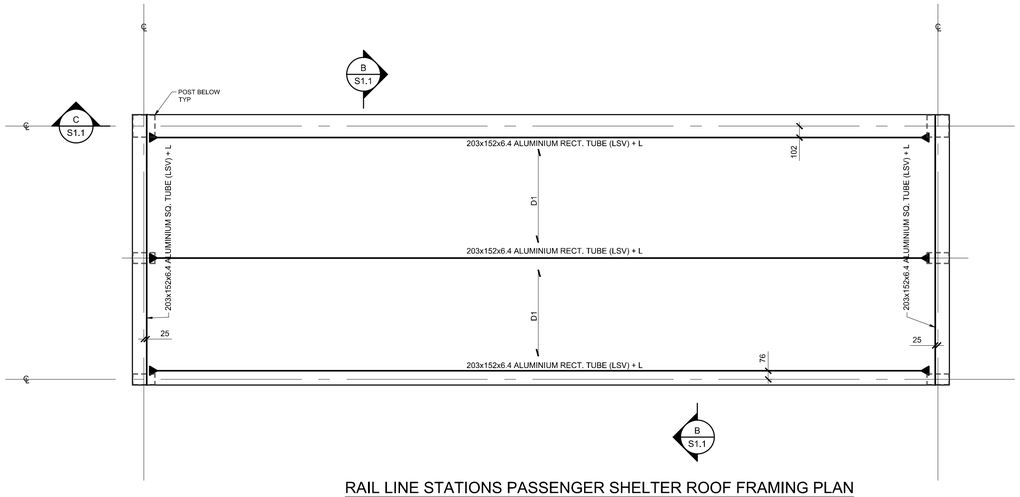
METRIC

ALL DIMENSION SHOWN ARE IN METERS AND/OR MILLIMETRES UNLESS OTHERWISE NOTED



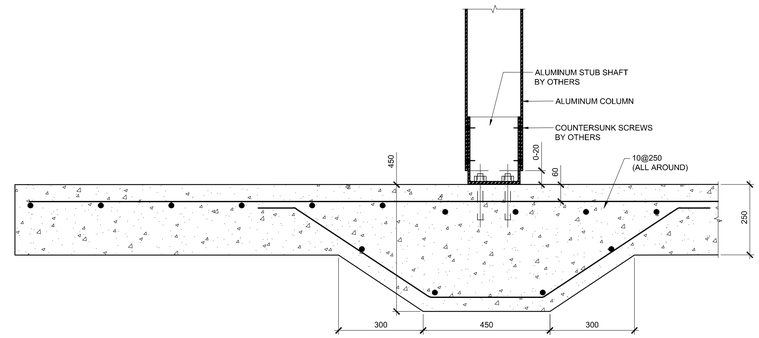
RAIL LINE STATIONS PASSENGER SHELTER FOUNDATION PLAN

1. FOR THE STRUCTURAL GENERAL NOTES, REFER TO SPECIFICATION SECTION.
2. GROUT BASE PLATES AND BEARING PLATES PRIOR TO PLACING LOADS ON STRUCTURE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND GRIDLINES.
4. REFER TO ARCH DWGS FOR SLOPE.

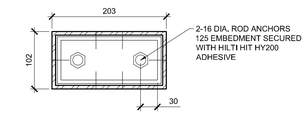


RAIL LINE STATIONS PASSENGER SHELTER ROOF FRAMING PLAN

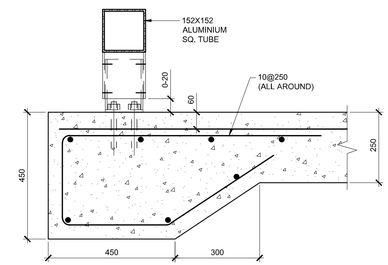
1. FOR THE STRUCTURAL GENERAL NOTES, REFER TO SPECIFICATION SECTION.
2. FOR ROOF DATUM ELEVATION AND DIMENSIONS REFER TO ARCHITECTURAL DRAWINGS.
3. UNLESS NOTED OTHERWISE ON PLAN, DESIGN LOADS ARE:
   LIVE LOAD (SNOW) = 2.4 kN/m² MINIMUM.
4. "D1" ON PLAN DENOTES 38 DEEP GALVANIZED STEEL DECK (C.N.T.=0.76) SECURED WITH SELF DRILLING TEK SCREWS 4 x 1-1/8" @ 300 o/c.
5. ▶ = MOMENT CONNECTIONS (Vf=40-kN, Mf=30kN.m, Cf=Tf=10kN).
6. DESIGN THE COLUMN TO BEAM CONNECTION FOR A MINIMUM COMBINED FORCES OF Hf=30kN, Mfx=50kN.m, Mfy=10kN.m, Cf=80kN.
7. THERE SHALL BE NO WELDED CONNECTION UNLESS ALLOWED AND CONFIRMED WITH THE STRUCTURAL CONSULTANT.



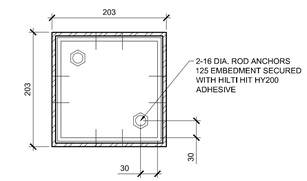
A S1.1 TYPICAL CONCRETE BASE SECTION
1 : 10



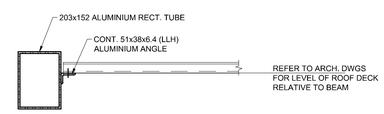
TYPICAL BASE PLATE CONNECTION DETAIL FOR 203x102 RECT. TUBE
SCALE 1 : 5



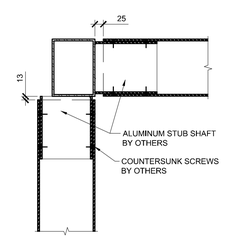
D S1.1 TYPICAL BENCH BEAM
1 : 10



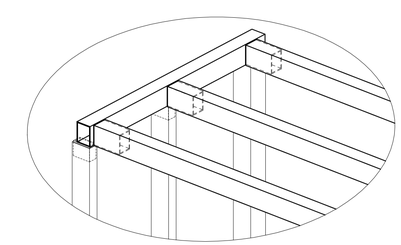
TYPICAL BASE PLATE CONNECTION DETAIL FOR 203x203 SQ. TUBE
SCALE 1 : 5



B S1.1 TYPICAL ROOF BEAM
1 : 10



C S1.1 TYPICAL SECTION
1 : 10



ISOMETRIC VIEW OF BEAM-COLUMN CONNECTION
NOT TO SCALE

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METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS		ISSUE			REVISIONS		
		1	Aug 12, 2015	50% Detailed Design	1	2015/08/12	50% DETAILED DESIGN
					2	2015/10/02	75% DETAILED DESIGN
					3	2016/01/26	100% DETAILED DESIGN
REV:	REV:	NO:	DATE:	ISSUED FOR:	REV:	DATE:	

DRAWN BY: DEB	DESIGNED BY: RYS
CHECKED BY: RYS 2015/08/12	APPROVED BY: Approver 2015/08/12
SCALE: 1 : 25 FULL SIZE ONLY	

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GO SHELTER DESIGNS

SHELTER TYPE 1 – RAIL LINE STATIONS PASSENGER SHELTERS

PLANS AND DETAILS

CONTRACT NO:	DRAWING NO:	REV.	SHEET
RQQ-2014-CON-061	S1.1	0.	

PLOTTED BY: SKC ● PLOTTED FOR: ---- ● PLOT DATE & TIME: 2016-01-26 2:20:38 PM ● PLOT SCALE: 1:25.4 AT 8.5"x11" SHEET SIZE. READ DRAWING ACCORDINGLY.
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