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SOLICITATION AMENDMENT

MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada -
Pacific Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

Title - Sujet Roof Replacement for 4 Buildings	
Solicitation No. - N° de l'invitation EZ899-170633/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client	Date 2016-07-22
GETS Reference No. - N° de référence de SEAG PW-\$PWY-033-7816	
File No. - N° de dossier PWY-6-39064 (033)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-07-28	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Siopongco, Philip PWY	Buyer Id - Id de l'acheteur pwy033
Telephone No. - N° de téléphone (604) 351-6139 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CSC - William Head Institution - Metchosin, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

N° de l'invitation - Sollicitation No.
EZ899-170633/A
N° de réf. du client - Client Ref. No.

N° de la modif. - Amd. No
002
N° du dossier - File No.
PWY-6-39064

Id de l'acheteur Buyer ID
PWY033
FMS No./N°VME - CCC No./N° CCC

Les documents français seront disponibles sur demande.

Amendment 002 has been raised to provide a response and add to the scope of work for Building 105:

Addendum 1: Response to questions received (attached)

Addendum 2: Additional scope of work for Building 105 (attached)

Please see attached addendums #1 and #2.

All other terms and conditions remain the same.

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

SPECIFICATIONS

.1 01 01 50 General Instructions

1.3 CONSTRUCTION WORK SCHEDULE:

Delete:

.1 Commence work immediately upon official notification of acceptance of offer and complete the work within 24 weeks from the date of such notification.

Add:

.1 Commence work immediately upon official notification of acceptance of offer and complete the work within 36 weeks from the date of such notification.

DRAWINGS

.1 102-1 BUILDING 102 – LIBRARY DEMOLITION PLAN

Delete

Remove and dispose of existing ballast, roofing assembly, metal flashing, wood blocking and drain down to the concrete deck.

Add:

Remove and dispose of existing roofing components as per project specifications.

.2 105-1 BUILDING 105 – VOCATIONAL TRAINING DEMOLITION PLAN

Delete

R1: Remove and dispose of existing roofing assembly, metal flashing, wood blocking and drain down to the wood deck.

R2: Remove and dispose of existing roofing assembly, metal flashing, and wood blocking down to the steel deck.

Add:

Remove and dispose of existing roofing components as per project specifications.

.3 108-1 BUILDING 108 – INSTITUTIONAL SERVICES BUILDING DEMOLITION PLAN

Delete

Remove and dispose of existing ballast, roofing assembly, metal flashing, wood blocking and drain down to the concrete deck.

Add:

Remove and dispose of existing roofing components as per project specifications.

CLARIFICATIONS

.1 Questions by the Contractors

Q1 - Is the walkway that is depicted on buildings 102, 104 & 108 an elevated steel/aluminium walkway?
Or is it simply a defined part of the roofing material that outlines travel area?

A1 – The latter.

Q2 - Would an engineered modular aluminum ladder system be accepted as opposed to steel?

A2 – Yes.

Q3 - Would a non-penetrating ballasted guardrail system be approved as opposed to the parapet mounted system that currently exists?

A3 – No.

Q4 - Are the skylights in close proximity to working/walking area not considered a fall hazard/should they not be protected by a guardrail system? (Building 108 specifically)

A4 – No.

Q5 Drawing 102-0 & 102-1, 105-1, 108-1 & Spec section 02 41 13

Imply a total removal to the existing concrete deck. Confirm the roof membrane is to remain in place or to be removed.

A5 – See addendum DRAWINGS above.

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

SPECIFICATIONS

- .1 **Add:**
Specification Section 07 42 13 Metal Panel Cladding

(Attached to this Addendum 2)
- .2 **Add:**
Specification Section 07 82 50 Metal Framed Skylights

(Attached to this Addendum 2)

DRAWINGS

- .1 **Add:**
Drawing Sheet No. 105-4 Building 105 – Vocational Training
 Polycarbonate Panel Details

(Attached to this Addendum 2)
-

PART 1 – GENERAL

1.1 DESCRIPTION

- .1 The work in this section includes but is not limited:
 - .1 Modifying the existing metal panel cladding, as required, to accommodate the installation of the new translucent wall panels.
 - .2 The supply and install of new translucent wall panels complete with anchors, brackets and other related components at the locations identified on the drawings.

1.2 REFERENCES

- .1 ASTM A653: Standard Specification for Steel Sheet, Zinc coated (galvanized) or Zinc-Iron alloy Coated (Galvannealed) by Hot Dip Process
- .2 ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- .3 ASTM E162 Standard Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source
- .4 ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
- .5 ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- .6 CAN/ULC-S101: Standard Methods of Fire Endurance Tests of Building Construction and Materials
- .7 CAN/ULC-S102: Standard Method of Test for Surface Building Characteristics of Building Materials and Assemblies
- .8 LEED® Canada-NC Green Building Rating System (Version 3.0) 2009.
- .9 BC Building Code (2016).

1.3 DESIGN REQUIREMENT

- .1 All panels including accessories are to meet the current requirements of all applicable codes.
- .2 Design structural reinforcement and attachment to building including provisions for thermal movement and building movement.

1.4 PERFORMANCE REQUIREMENT

- .1 Structural Test:

- .1 Structural performance shall be verifiable by witnessed structural testing for simulated wind loads in accordance with ASTM E72 and E330. Deflection criteria shall be $[L/180]$.
- .2 Fatigue Test:
 - .1 There shall be no evidence of metal/insulation interface delamination when the panel is tested by simulated wind loads (positive and negative loads), when applied for two million alternate cycles of $L/180$ deflection.
- .3 Freeze / Heat Cycling Test:
 - .1 Panels shall exhibit no delamination, surface blisters, permanent bowing or deformation when subjected to cyclic temperature extremes of minus 29 deg. C to plus 28 deg. C temperatures for twenty one, eight-hour cycles.
- .4 Panel Fire Tests:
 - .1 Fire Endurance Test – 10 minutes: Panels remained in place without joint stitch, fastening per CAN/ULC-S101.

1.5 SUBMITTALS

- .1 Submit all documentation and samples in accordance with Section 01001 - General Requirements.
- .2 Submit letter from contractor confirming that all products will be supplied and installed according to the descriptive and performance requirements of this specification. Identify any specified requirements that are in error or cannot legitimately be met, and provide alternatives which meet the intent of the specifications for the Departmental Representative to approve.
- .3 Submit samples of materials requested. The samples are to be submitted without additional cost to Departmental Representative.
- .4 Submit maintenance data for incorporation into the project's maintenance manual. The maintenance data include:
 - .1 Data for the cleaning of the panel.
 - .2 Data for the maintenance of the panel.
- .5 Submit all warranties promptly on completion of work.

1.6 MOCK-UP

- .1 Submit to Departmental Representative in accordance with Section 01001 - General Requirements a sequenced installation mock-up. The mock-up may form part of the work and must include all associated details and metal flashing.

1.7 QUALITY ASSURANCE

- .1 Installers Qualifications: Installers to have a minimum of five (5) years experience of proven experience installing the specified materials/system on projects of similar size and complexity.

- .2 Panel Manufacturer Qualifications: to have a minimum of ten (10) years experience.
- .3 Field measurements shall be taken and verified prior to completion of fabrication and assembly.
- .4 Unless otherwise specified, comply with Manufacturer's latest printed instructions for materials and installation methods.
- .5 Notify Departmental Representative in writing of any conflict between these specifications and Manufacturer's instructions. Departmental Representative will designate which document is to be followed.

1.8 PROJECT CONDITIONS

- .1 Take field measurements prior to completion of shop fabrication. Coordinate fabrication schedule with construction progress to avoid delay of work.
- .2 Panel System Prefabrication: Conduct fabrication in shop. Keep field fabrication to a minimum.

1.9 DELIVERY, STORAGE AND HANDLING

- .1 Deliver and handle panels in accordance with manufacturer's recommendations.
- .2 Store wall panel materials on dry, level, firm, and clean surface. Stack no more than two bundles high. Elevate one end of bundle to allow moisture run-off, cover and ventilate to allow air to circulate and moisture to escape.
- .3 Protect edges and finishes.

1.10 WARRANTY

- .1 Panels to be free from defects in material and workmanship, and continue to perform satisfactorily.
- .2 Provide written warranty for installation specified in this Section covering a period of two (2) years.
- .3 Correct all deficiencies that appear during the warranty period, including removal and replacement of failed sealed insulating units, at no cost to the Departmental Representative.

PART 2 - PRODUCTS

2.1 MATERIALS – METAL WALL PANELS

- .1 Existing metal wall panel is to be retained. Adjustments are to be made in situ, as required, to accommodate the installation of the translucent panels.

2.2 MATERIALS – TRANSLUCENT WALL PANELS

- .1 Panel Cladding System: a single component cellular polycarbonate translucent preassembled double sheet panel (made up of a 16mm thick exterior sheet and a 10mm interior sheet with a 79mm gap between them) with perimeter support extrusions, factory fitted aluminum spacers, shims and fasteners as manufactured for a complete system to replace glazing systems.
 - .1 U Value: 1.16 W/m²K
 - .2 Light Transmission: Up to 55% to (NEN)-EN 410:1998
 - .3 Fire Properties: Class 1Y to BS 476-7: 1997
- .2 Acceptable Products
 - .1 SunSky by Palram
 - .2 Approved alternate
- .3 Single Component Flat Polycarbonate Sheet:
 - .1 Properties:
 - .1 Sheet Thickness: 0.8mm
 - .2 Standard Widths: 36"
 - .3 Standard Length: 8' or 10'
 - .4 Colour: Soft White
 - .5 Light Transmission: Max 85%
 - .6 Shading Coefficient: 0.98
 - .7 Solar Heat Gain Coefficient: 0.85

2.3 FABRICATION

- .1 Fabrication shall be done under controlled shop conditions when possible. Field fabrication only when necessary. Maximum deviations for panel flatness shall be 3mm in 2m (1/8 in. in 6 ft. 6-3/4 in.), in any direction for assembled units.
- .2 Machine fabricate material in accordance with reviewed Shop Drawings with straight lines, square corners or smooth bends, free from twists, kinks, warps, dents, and other imperfections which may affect appearance or serviceability.
- .3 Design and fabricate appropriate type, size, quantity and spacing of all sub-connectors, girts, fasteners and other anchorage devices as required to suit the specified standards.

- .4 Fabricate panel system to dimension, size, and profiles indicated based on design temperature of 21 deg C. (70 deg F.) Reinforce corners and routed edges with aluminum angles and medium modulus structural sealant. Fasten stiffeners and panel attachment clips to panel return flanges. System shall have a flush appearance from the exterior with no reveal other than module joint width.
- .5 Fabricate panel system so no restraints can be placed on panel which might result in compressive skin stresses. Detail panels for installation so panels remain flat regardless of temperature change, and remain air and water tight.
- .6 Fabricate finish side panel with removable plastic film applied prior to fabrication. Ensure film remains on panel during fabrication, shipping, and erection to protect surfaces from damage
- .8 Tolerances: Fabricate panels to meet the following tolerances:
 - .1 Panel Bow: Maximum 1.0% of any panel dimension on width or length
 - .2 Panel Dimensions: Provide allowances for field adjustments as recommended by manufacturer where final dimensions cannot be established by field measurements before completion of panel manufacturing. Panels dimensions to adhere as closely as possible to design intent.
 - .3 Panel Lines, Breaks, and Angles: Sharp, true, and surfaces free from warp and buckle.
 - .4 Deviation from Panel Flatness: Maximum deviation in any direction alignment of erected panels: 6mm (1/4 in.) in 6m (20 ft.) non-accumulative
 - .5 Panel Squareness: Maximum difference between diagonals: 3.18 mm (0.125 in.).
 - .6 Panel Thickness Variation: +/- .1016 mm (0.004 in.) maximum

PART 3 - EXECUTION

3.1 PREPARATION OF WALL

- .1 Prepare substrate according to drawings and manufacturer's requirements.

3.2 INSTALLATION

- .1 Installation shall be in accordance with manufacturer's installation guidelines and recommendations.
- .2 Install panels plumb, level, and true-to-line to dimensions and layout indicated on approved shop drawings.

- .3 Cut panels prior to installing, where indicated on shop drawings, using a power circular saw with fine tooth carbide tip blade per manufacturer's instructions. Personnel should wear respiratory and eye protection devices.
- .4 Butyl Weather Barrier Sealant:
 - .1 Apply non-skinning butyl sealant as shown on shop drawings and manufacturer's installation instructions as necessary to establish the vapor barrier for the panels.
 - .2 Use non-skinning butyl tube sealant only for tight metal-to-metal contact.
 - .3 Do not use non-skinning butyl tube sealant to bridge gaps.
- .5 Place panel fasteners through pre-punched holes in attachment clips, concealed within the joint of the panel. Secure units to the structural supports. Space clips as recommended by manufacturer or otherwise indicated on the approved shop drawings.

3.3 CLEANING AND PROTECTION

- .1 Remove protective film immediately after installation.
- .2 Touch-up, repair or replace metal panels and trim that have been damaged.
- .3 After metal wall panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.
- 4. Protect panels to Departmental Representative's satisfaction until Substantial Performance.

END OF SECTION

PART 1 – GENERAL

1.1 DESCRIPTION

- .1 The work in this section includes but is not limited to supply and install:
 - .1 New pre-fabricated fixed curb mounted skylight glazing system complete with frames, anchors, brackets and other related components at the locations identified on the drawings.

1.2 REFERENCES

- .1 National Building Code of Canada 2015.
- .2 Glazing Contractors Association of BC, Glazing Systems Specifications Manual.
- .3 CAN3-S157-1983, “Strength design in aluminum”.
- .4 CAN/CGSB-12.20-M89, “Structural Design of glass for building”.
- .5 CAN/CGSB-12.1-M90, “Glass, Safety, Tempered or Laminated”.
- .6 AAMA 611-92, “Voluntary Standards for Anodized Architectural Aluminum”.
- .6 AAMA 605.2-92, “Voluntary Specification for high performance Organic coatings on architectural extrusions and panels”.
- .7 CSA W59.2-M91, “Welded Aluminum Construction”.
- .8 AAMA/WDMA/CSA 101/I.S.2/A440-08, North American Fenestration Standard (NAFS), Specification for Windows, Doors and Skylights.
- .9 CAN/CSA-A440-00 “Windows”.
- .10 NFRC 100-2004/2010 “Procedure for Determining Fenestration Product U-Factors”.
- .11 NFRC 200-2004/2010 “Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence”.

1.3 DESIGN REQUIREMENT

- .1 All skylights including accessories are to meet the current requirements of all applicable codes.
- .2 Provide a fixed curb mounted skylight glazing units with drainage system to allow condensation to be channeled to the exterior.

- .3 Design glass in accordance with CAN/CGSB-12.20-M89
- .4 Limit deflection under full design load to $L/175$.
- .5 Design structural reinforcement and attachment to building including provisions for thermal movement and building movement.

1.4 PERFORMANCE REQUIREMENT

- .1 All skylights shall conform to the requirements of the specifications in AAMA/WDMA/CSA 101/IS.2/A440-08 (NAFS), be labeled with the AAMA, CSA or WDMA label, and be of the sizes shown on the drawings.
 - .1 Skylights – PG25 Class CW; Water Test Pressure 220Pa
- .2 Skylight Performance:
 - .1 U-Value: 0.69
 - .2 SHGC: 0.49
 - .3 Air tightness level: A2
- .3 Glass Performance:
 - .1 Transmission: Visible – 46%, UV – 0%, Solar Energy 24%
 - .2 Reflectance: Visible Out – 19%, Visible In – 15%, Solar Energy Out – 14%
 - .3 U-Value: Winter night – 0.23, summer day – 0.22.
 - .4 RHG: 80 Btu/hr-ft².
 - .5 SC: 0.39
 - .6 SHGC: 0.33
 - .7 LSG: 1.36
- .4 Sealed insulating units to comply with CAN/CGSB-12.8-M90, and unit manufacturer to be IGMAC certified.

1.5 SUBMITTALS

- .1 Submit all documentation and samples in accordance with Section 01001 - General Requirements.

- .2 Submit letter from glazing contractor confirming that all products will be supplied and installed according to the descriptive and performance requirements of this specification. Identify any specified requirements that are in error or cannot legitimately be met, and provide alternatives which meet the intent of the specifications for the Departmental Representative to approve.
- .3 Submit samples of materials requested (i.e., frame sections, glass and glazing material, fasteners and hardware). The samples are to be submitted without additional cost to Departmental Representative.
- .4 Submit maintenance data for incorporation into the project's maintenance manual. The maintenance data include:
 - .1 Data for maintenance and cleaning of finishes.
 - .2 Data for cleaning of glass.
- .5 Submit all warranties promptly on completion of work.

1.6 MOCK-UP

- .1 Submit to Departmental Representative in accordance with Section 01001 - General Requirements a sequenced installation mock-up for each type of canopy. The mock-up may form part of the work and must include all associated details and metal flashing.

1.7 QUALITY ASSURANCE

- .1 Manufacturer and Installation Contractor to be a member in good standing of the Glazing Contractors Association of British Columbia, and have a minimum of five years documented experience. Contractors to provide documentation of previous experience as requested.
- .2 Confirm that surfaces to which the materials are to be applied are in a condition suitable for this application.
- .3 Unless otherwise specified, comply with Manufacturer's latest printed instructions for materials and installation methods.
- .4 Notify Departmental Representative in writing of any conflict between these specifications and Manufacturer's instructions. Departmental Representative will designate which document is to be followed.

1.8 ENVIRONMENTAL REQUIREMENTS

- .1 Glaze with sealant or tapes only when glazing surfaces are at temperatures recommended by the tape or sealant Manufacturer, and when glazing surfaces are free of moisture.

1.9 COMPATIBILITY

- .1 Compatibility between components of system and adjacent materials is essential. Where required, provide a written declaration to Departmental Representative stating that materials and components, as assembled in system, meet this requirement.

1.10 WARRANTY

- .1 Skylight to be free from defects in material and workmanship, and continue to perform satisfactorily.
- .2 Provide written warranty for skylight installation specified in this Section covering a period of two (2) years, except as noted below.
 - .1 Provide a written warranty for sealed insulating glass units, including installation, will be free from defects covering a period of five (5) years.
- .3 Defective installation covered under the warranty shall include, but not be limited to, leakage, excessive condensation, fogging, failure of seals, corrosion, excessive thermal transmission, loosening of whole or of parts of units, breakage or deformation of unit metalwork, glass breakage from excessive stresses developed within the glazed unit or the glass (other than by accidental cause exterior to the glazed unit), fading or discoloration of factory applied finishes, and staining of adjoining or adjacent materials or surfaces.
- .4 Correct all deficiencies that appear during the warranty period, including removal and replacement of failed sealed insulating units, at no cost to the Departmental Representative.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Tempered Laminated Glass: In accordance with CAN/CGSB-12.20 "Structural Design of Glass for Buildings". Thickness to meet requirement of the Vancouver Building Bylaw.

- .2 Extruded Aluminum: Extruded sections of aluminum alloy 6063, T5 and temper. Color to be selected by Departmental Representative from manufacturer's standard range.
- .3 Aluminum Sheet and Plate: 1100 or 5005 alloy for anodized finishes, 3003 or 5002 for other coatings.
- .4 Coating Finish: finish to meet the requirements of AAMA-2605 "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels".
- .5 Fasteners: 300 series stainless steel, ensure compatibility with adjacent materials.
- .6 Glazing gaskets/spacers shall be dense extruded elastomeric rubber (neoprene or EPDM)
- .7 Sealant: as per manufacturer's recommendations.
- .8 Flashing: Refer to Section 07620-Metal flashing and trim. Finish to match skylight framing.

2.2 SYSTEM DESCRIPTION

- .1 Double glazed fixed curb mounted skylight glazing units.
- .2 Any moisture in unit is to be wept to the exterior without compromising the air barrier of the system.

2.3 FABRICATION

- .1 Install skylights to ensure neat, weather-tight construction free from defects affecting appearance or performance.
- .2 Install units to shapes, sizes and configurations shown on the drawings.
- .3 Install according to manufacturer's directions.
- .5 Conceal fasteners whenever possible.
- .6 Pre-formed gaskets to be continuous and in one piece, cut oversize materials to allow for shrinkage and install with tightly fitted corners.
- .7 Brace frames to maintain squareness and rigidity during shipment and installation.

**PART 3 -
EXECUTION**

3.1 PREPARATION OF WALL

- .1 Prepare curbs according to drawings and manufacturer's requirements.

3.2 INSTALLATION

- .1 Install skylight units in accordance with manufacturer's recommendations.
- .2 Install units to prepared curbs complete with all necessary waterproofing and gaskets. Ensure the frames are level, square, true and in relation to established lines and grades shown on reviewed shop drawings.
- .3 Secure work to allow for anticipated movements of the building structure and thermal movements within the unit without failure of sealant joints or compromising the performance of the system.
- .4 Conceal all fasteners except where unavoidable for structural anchorage or installation of hardware.
- .5 Correctly install membrane flashing to ensure proper drainage of moisture. Provide a metal plate set in bed of sealant over frame where required to receive membrane flashing.
- .8 Seal joints between framing and surrounding materials in accordance with Section 07900 - Sealant.

3.3 FLASHING INSTALLATION

- .1 Install metal flashing in accordance with Section 07620 - Metal Flashing and Trim. The flashing is to be uniform, level in length, straight in alignment with plumb upstands and faces.

3.4 CLEANING AND ADJUSTMENT

- .1 At completion of work, clean all glass and frames with soap or other approved cleaning agent.
- .2 Remove all excess glazing or joint sealing materials from exposed surfaces. Clean and polish glass.

END OF SECTION

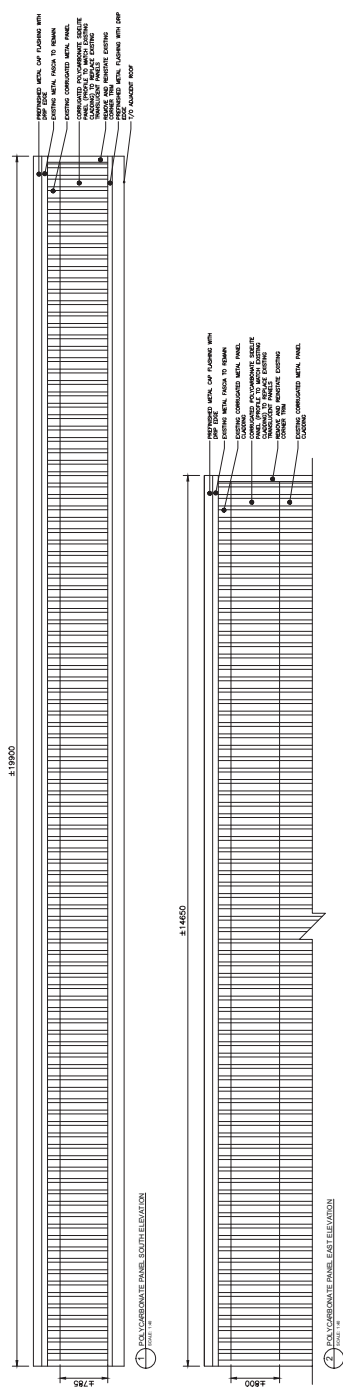


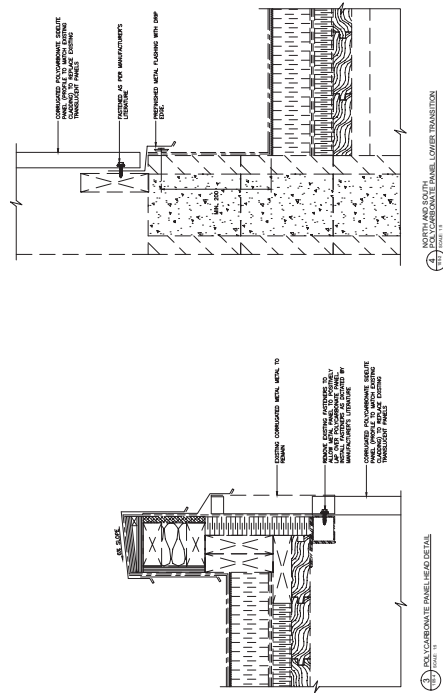
FIGURE 1. EXISTING CORRUGATED GLAZED PANEL TRANSITIONS



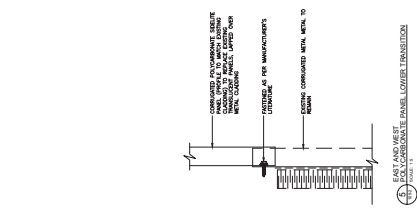
PHOTO 2: CORRUGATED GLAZED PANEL WEST ELEVATION (EAST SIDE)



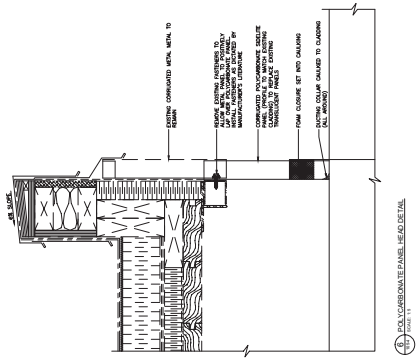
ENCLOSURE CORRUGATED GLAZED PANEL CORNER TRANSITION



3 POLYCARBONATE PANEL HEAD DETAIL



5 EAST AND WEST
POLYCARBONATE PANEL LOWER TRANSITION



6 POLYCARBONATE PANEL HEAD DETAIL