



**Waterloo Catholic
District School Board**

ADDENDUM # 002

**Monsignor Doyle CSS Renovation
185 Myers Rd, Cambridge. ON**

RFT No. 2024-01

17/21 Project No 2330

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This addendum forms part of the Contract Documents and amends the original drawings dated February 15, 2024 marked as ISSUED FOR TENDER and specifications dated February 15, 2024

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PART A- GENERAL

1- Questions:

Question #1:

Can you please confirm what the aluminum framing is to be? The spec calls of 2200 under hinged door and 500 under framing, but the drawings show storefront?

Answer:

Refer to reviewed Section 08460 - ALUMINUM CURTAIN WALL, SCREENS AND ENTRANCES , attached

Question #2:

What is the aluminum door elevation? The door schedule calls off door type F which there isn't one.

Answer:

Change type F to **Type B**

Question #3:

Please include door elevations for doors 182E.3, 182E.4, 182E.5, 182E.6, 182B.1, 182B.2 182B.3 and 182B.4.

Answer:

See pictures below

Doors 182E-3



Doors 182E-4, 182E-5, 182E-6



Door 182B-3



Door 182B.4.



182B.1, 182B.2 Similar to above ones.

Question #4:

Please confirm if doors 108.2, 108.3, 159A.1, 159A.2, 159A.3 are to receive glazing, the door type calls off Type A but then notes GL2/GL3 glazing.

Answer:

- Doors 108.2, 108.3: Type A, **NO glass**
- Doors 159A.1, 159A.2, 159A.3: **Type D**, GL-3 glass.

Question #5:

Door 134E is also missing a door type tag.

Answer:

Door 134E, existing door to remain.

Question #6:

Doors 161.1, 186.1 and 186.2 are missing glass tags, please confirm.

Answer:

Above doors glass: GL-2

PART B- SPECIFICATIONS

- 1- Revised Section 08460 - ALUMINUM CURTAIN WALL, SCREENS AND ENTRANCES, attached

PART C – ARCHITECTURAL DRAWINGS

RESERVED.

PART D – MECHANICAL / ELECTRICAL DRAWINGS

RESERVED.

END OF ADDENDUM # 002

PART 1 - GENERAL

.1 Description

.1 General Requirements

Division 1, General Requirements, is a part of this Section and shall apply as if repeated here.

.2 Work Related to this Section Performed by Other Sections

Section 08520: Aluminum Windows

.3 Work Performed by this Section but Specified Elsewhere

Section 07920: To specify joint sealants.
Section 08800: To specify glazing.

.2 System Description

.1 Tolerances

- .1 Fabricate frames to a tolerance of + 1.5 mm for vertical, horizontal, and diagonal dimensions of units under 1830 mm, and + 3 mm for dimensions greater than 1830 mm.
- .2 Erect component parts within following tolerances:
 - : Variations from plumb:
 - 3 mm maximum variation in storey height or 3 m run, cumulative
 - : Variations from level:
 - 3 mm maximum variation in any bay or 6 m run, non-cumulative
 - : Variations from theoretical calculated plan or elevation location related to established floor lines, column lines and other fixed elements of the structure, including variations for plumb and level:
 - : Offsets in end-to-end or edge-to-edge alignment of adjoining members:
 - 1.5 mm maximum offset in any alignment.
- .3 Maintain tolerances for glazing as recommended by glass manufacturer.
- .4 Maintain locations of mullions related to, and within installed tolerances, of ceilings of walls as indicated on Drawings. Verify location of ceiling grid at each floor.

.2 Design

- .1 The entire exterior skin execution shall be based on the rain screen principle.
- .2 The system shall provide:
 - : Such gaskets, baffles, overlaps and seals as required to provide a rain screen barrier to effectively deter rain water entry into cavities.
 - : The necessary air seals to eliminate air passage from system cavities into the building and vice versa, and to assure adequate pressure equalization of the system cavities with the outside.
- .3 The air and vapour seals required to eliminate air borne vapour infiltration from the building into the system cavities.
- .4 Openings between cavities and outside shall be of sufficient cross section to provide pressure equalization. All openings must be effectively baffled to minimize direct water entry.
- .5 Thermally, the grid members shall have a resistance to heat transfer equal to or better than that of the area along the bottom of the sealed glass units.

.3 Structural Requirements

- .1 Entrances must withstand a minimum windload of (30 psf) 1500 Pa with a maximum deflection of span/200.

.4 Performance

- .1 Air infiltration shall exceed 3.05 to the power of negative four cu.m/s/sq.m. of exterior surface at 75 Pa pressure difference.
- .2 There shall be no water infiltration into the building under 50% of design wind load.
- .3 No condensation shall form on any interior surfaces of the aluminum members before any of the exposed area of the 25 mm sealed units reaches the dew point temperature.

.3 Quality Assurance

.1 Glazing Requirements

Conform to recommendations of Flat Glass Marketing Association (FMGA), Glazing Manual 1980 (GM) and Glazing Sealing Systems Manual 1970 (GSSM).

.2 Subcontractor Qualifications

Perform Work of this Section only by a Subcontractor approved by one of the systems manufacturers approved for this Project and who has adequate plant, equipment and skilled tradesmen to perform it expeditiously and is known to have been responsible for satisfactory installations similar to that specified during a period of the immediate past five years.

Approved Suppliers:

Kawneer
Windspec Inc.
Alwind Ltd.
Alumicor

.3 Welder Qualifications

Perform welding of structural components only by fabricators certified by Canadian Welding Bureau to CSA welding qualification codes; CSA Standard W47.1 for welding of steel, and CSA W47.2 for welding of aluminum.

.4 Requirements of Regulatory Agencies

Conform to requirements of authorities having jurisdiction in the fabrication and installation of components specified in this Section.

.5 Codes and Standards

Except as modified by governing codes and by the Contract Documents, comply with applicable provisions and recommendations of the following:

- .1 CSA W47.2-M1987 for welding of aluminum.
- .2 CSA W59-M1989 for welding of steel.
- .3 AAMA Aluminum Curtain Wall Design Manual.

.4 References

.1 Reference Standards

Reference standards quoted in Contract Documents refer to:

ASTM A167-81a, Specification for Stainless and Heat Resisting Chromium-Nickel Steel Plate, Sheet and Strip.
ASTM A480-81, Specification for General Requirements for Flat Rolled Stainless and Heat Resisting Steel Plate, Sheet and Strip.
ASTM A525-76, Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, General Requirements.
ASTM A780-80, Standard Practice for Repair of Damaged Hot-Dip Coatings.
CGSB Specification 41-GP-19Ma, Rigid Vinyl Extrusions for Windows and Doors.
CGSB Specification 79-GP-1M, Screens, Aluminum Frame, Window.
CGSB Specification 1-GP-108M, Paint, Acid and Alkali Resistant, Black.
CGSB Specification 1-GP-132M, Primer, Zinc Chromate, Low Moisture Sensitivity.
CGSB Specification 1-GP-181M, Coating, Zinc Rich, Organic, Ready Mix.
CAN/CSA3-G40.20/G40.21-M92, Structural Quality Steel.

CSA Standard G164-M92, Hot Dip Galvanizing of Irregularly Shaped Articles.
CSA Standard W47.1-92, Certification of Companies for Fusion Welding of Steel Structures.
CSA Standard W47.2-M1987, Aluminum Welding Qualification Code.
CSA Standard W59-M1989, Welded Steel Construction (Metal Arch Welding).

.5 Submittals

.1 Shop Drawings

- .1 Submit shop drawings showing and describing in detail system assemblies, including: large scale details of members and materials, of brackets and anchorage devices, and of connection and jointing details, fully dimensioned layout for positioning of brackets and anchorage devices to structures; dimensions, gauges, thicknesses; glazing details, description of materials, including catalogue numbers, products' and manufacturers' names; aluminum alloy and temper designations, metal finishing specifications; and degree of torquing required for bolted connections; and other pertinent data and information.
- .2 Shop Drawings shall contain the minimum following details:
 - : jamb, head and sill of units at junction of wall faces, including air vapour seal
 - : structure required for system that is supplied with system and not part of building structure
 - : anchorage system
 - : dielectric separator details
 - : separator/slip gasket details
 - : thermal separator details
 - : flashing details

.2 Samples

- .1 Submit samples of unit frame profiles, glass and glazed sample assembly prior to fabrication of units. Sample acceptance will be for colour, appearance, glazing methods only.
- .2 Submit samples for each finish and colour required. Submit samples finished on the specified alloy on 600 mm lengths of extrusions or 600 mm square of sheet or plate, showing maximum range or variation in colour and shade, and matching the Architect's samples in each case. Sample submittals and acceptance shall be for colour, texture and specular gloss.

.3 Maintenance Instructions

Submit maintenance instructions for incorporation into Project Data Book.

.6 Delivery, Storage and Handling

- .1 Suitable storage at site shall be provided by the Contractor. Parts shall be stored in this area to permit natural ventilation over their finished surfaces.
- .2 Under conditions of high humidity, heating or forced ventilation shall be provided to prevent the accumulation of surface moisture.
- .3 Deliver, handle and store units by methods approved by manufacturer. Store units at site on wood platforms raised above grade or in enclosures protected from elements and corrosive materials, and with resilient pads provided for full bearing support of frame. Stack units vertically in manner to prevent racking. Do not remove from crates or other protective covering until ready for installation.
- .4 Protection of this work shall be the responsibility of this Section and the methods used shall be agreed with the Contractor.
- .5 Do not permit foreign materials such as splashing of concrete, mortar, plaster or paint, which could damage the finish, to remain on the surface of aluminum work. All materials of this nature must be immediately removed, and where conditions are such that this will not be possible, the exposed surface of aluminum exposed to abuse shall be protected by removable aluminized vinyl protection throughout the period that work proceeds on the building. The protective materials must be carefully removed on completion of the building, and in such a manner that no damage occurs to the aluminum finish.

.7 Warranty

.1 Extended Warranty

- .1 Warrant installation specified in this Section covering the period for four years beyond the expiration of the warranty period specified in the General Conditions to the Contract. The total warranty period is six (6) years.
 - .2 Without restricting the generality of the warranty, defects shall include failure to maintain true lines, plumbness and weather tightness under all conditions.
- .2 Promptly remedy defects and/or failures upon written notification that such exist. Remedy shall include labour, materials, equipment and services required to make good defective work, and to replace such work, without removal of non-defective work, and to make good any work, components and finishes and Owner's property damaged or disturbed in course of remedying defects and/or failures.

PART 2 - PRODUCTS

.1 Materials

.1 Aluminum

- .1 Extrusions: AA6063-T5, alloy and temper for framing, and otherwise where not exposed to suit specified and fabricator's requirements.
- .2 Exposed Anodized Sheet and Plate: AA 5005-H14, alloy and temper, or AA 1100-H14, anodizing quality.
- .3 Exposed sheets where painted: AA100-H14, alloy and temper.
- .4 Non-exposed sheets: AA3003-H14, alloy and temper, mill finish, or Alcan "Utility Sheet".
- .5 Exposed surfaces of aluminum shall be free of die marks, scratches, blisters, "leave-off" marks, or other blemishes which are visible.

.2 Steel

- .1 Steel Framing: To meet specified requirements of CSA Standard G40.21, Grade 300W for rolled sections and Grade 350, Class H, for hollow sections.

.3 Stainless Steel

ASTM Specifications A480-81, and A167-81a, Type 304.

.4 Finishes

- .1 New Construction: Anodic clear coating, Architectural Class 1, AA-M12C22A41 (.0007")
- .2 Renovations and Additions: Match existing aluminium frames and entrance system

.5 Glass

To meet specified requirements of Section 08800; 25 mm sealed insulating units and as specified herein.

.6 Glazing Gaskets

Either neoprene or EPDM (ethylene propylene diene monomer) with dimensional tolerances and durometer hardness and of suitable size and shape to meet requirements of the specifications and their specific application. Gaskets shall be virgin material as manufactured by Tremco Manufacturing Company (Canada) Limited or other approved manufacturer. Gaskets shall conform to Tremco Information Bulletins:
For EPDM - TDB-460-1 or equal.
For Neoprene - TDB-270-1 or equal.

.7 **Glazing Tape**

Polyisobutylene, with continuous molded-in synthetic rubber shim, in colour selected, Polyshim Tape by Tremco (Canada) Limited, or equivalent as approved.

.8 **Sealants and Sealant Materials**

To meet specified requirements of Section 07920 and design performance requirements.

.9 **Fastenings**

Stainless steel, Type 300 series, or double cadmium plated steel, selected to prevent galvanic action between fasteners and components fastened. Where exposed in finished surfaces, use oval-head countersunk Phillips head screws with shank diameter one screw size smaller than the diameter of holes in fastened material, and colour to match adjacent surfaces.

.10 **Exposed Anchors**

Aluminum or stainless steel with aluminum materials; and otherwise to match metal anchored. Non-exposed: as for exposed or may be galvanized steel.

.11 **Bituminous Paint**

To meet specified requirements of CGSB Specification 1-GP-108.

.12 **Separator/Slip Gaskets**

Nylon as suitable for connection detail at moving faces of connections.

.13 **Thermal Separator**

Solid extruded and thermally resistant sections with a durometer hardness of Shore "A" 50, ± 5 .

.14 **Supporting Angles, Plates, Bars, Rods and Other Steel Accessories**

- .1 Mild steel CAN3-G40.21-M78, thickness as required to sustain imposed loads and in no case less than 4.8mm thick.
- .2 Galvanize steel after fabrication where installed on exterior side of vapour retarder/air barrier. Prime paint steel where installed on interior side of vapour retarder/air barrier.

.15 **Thermal Insulation**

- .1 Rigid glass fibre board, AF530 wall insulation manufactured by Fiberglas Canada Inc. in thickness indicated on Drawings with black coating on outer surface.
- .2 Loose Insulation: Glass fibre, density of 12 kg/cu.m., by Fiberglas Canada Inc.
- .3 **Foam Insulation**
 - .1 One or two part, polyurethane, with a nominal density of 40 kg/m³, coefficient of linear expansion of 0.00006 mm/m/°C, water vapour transmission of 73 Ng/Pa5m² and thermal conductivity of 0.02 W/m°K.
 - .2 Similar to products as produced by BASF Canada Inc.

.16 **Hardware**

Refer to Section 07810.

.2 **Products**

- .1 Specified manufacturers' catalogue references to list above, establish the minimum standards for the products listed in this Section.
- .2 Unspecified materials which form a part of completed assemblies shall be of manufacturers'

- standard.
- .3 Products of the following manufacturer are considered as acceptable alternatives, provided that they meet the minimum requirements of the products listed and must submit technical literature, samples, drawings and performance data for comparison:
- Kawneer
 - Windspec Limited
 - Alwind Industries
 - Alumicor

.4 **Screens and Framing**

- .1 Framing: **FlushGlaze BF 3400 by Alumicor** or similar
- .2 Finish: exterior: clear anodized
back sections: clear anodized
- .3 Glazing: 25mm insulating glass units at exterior locations; Type 2.
- .4 Sills: extruded aluminum, with concealed anchor system or hold down clips, colour and finish to match framing.
- .5 Style: Combination of mullion depths, glazing rebates and caps as required by Drawings, and including door stops and cut pile weatherstripping.

.5 **Hinged Doors**

- .1 Type: **Thermaporte 7700 – T600 thermally broken entrance by Alumicor or similar**. Refer to drawings for dimensions of bottom, mid and top rails and stiles..
- .2 Glass: 25mm insulating glass units at exterior locations.
- .3 stiles: clear anodized.
- .4 Threshold: One piece per door opening, thermally broken extruded aluminium.
- .5 Weatherstripping: Manufacturers standard EPDM and pile weatherstripping.
- .6 Door Sweep: Manufacturers standard pile sill sweeps on exterior and interior.
- .7 Hinges: continuous, heavy duty Rotun hinge

.3 **Fabrication**

- .1 Ensure glazing rebate provided with depth and width to accommodate specified glass in accordance with glass manufacturer's recommendations. Install glazing gaskets anchored to aluminum extrusions.
- .2 Provide structural support for air barrier tie-in.

.3 **Framing Members**

- .1 Fabricate generally to dimensions/profiles indicated on drawings. Meet specified requirements and clearances to other construction components.
- .2 Reinforce members and joints with steel plates, bars, rods or angles for rigidity and strength as needed to fulfill performance requirements. Use concealed stainless steel fasteners for jointing that cannot be welded.
- .4 Provide glass setting, supports and stops to minimize possibility of glass breakage caused by structural inadequacy of frames, stops and frame joints, solar and thermal induced forces, within limitations of specified design performance criteria, as recommended by glass manufacturer.
- .5 Design system to ensure that site glazing may be performed in accordance with construction scheduling within environmental limitations specified in Section 08800.

.4 **Assembly of Units**

- .1 Join members by welding where specified and otherwise where practicable.
- .2 Join members where specified, and otherwise where welding is impracticable, by mechanical methods. Reinforcement or fasteners visible on faces of members where exposed to view will not be acceptable.
- .3 Weld with electrodes and by methods recommended by the base metal manufacturer, and in accordance with CSA Standards W47.1, W47.2 and W59 as applicable, and to avoid distortion or discolouration of exposed faces. Make welds continuous unless otherwise shown. Grind exposed welds flush, to match adjacent metal.

- .4 Join members in shop fabricated units to fit flush with hairline joints.
- .5 Incorporate weepholes to drain off pocketed water. Baffle to prevent entry of driven water to conform to specified performance.
- .6 Except where shipping makes impossible, fabricate units in shop and ship completely assembled.

.5 **Vapour Retarder and Air Barrier**

Maintain integrity of vapour retarder and air barrier system within systems installed by this Section and between systems and adjoining construction.

.6 **Dissimilar Materials**

- .1 Protect material from electrolytic action when dissimilar metals are in contact with one another with two coats of bituminous paint or other approved means.
- .2 Protect aluminum concealed in contact with masonry with two coats of bituminous paint.

.7 **Anchors**

- .1 Incorporate anchorage to structure to support units adequately when subjected to specified loads.
- .2 Allow for complete adjustment in anchorage for levelling and positioning of units during installation.

.8 **Doors**

- .1 Fabricate doors with stiles and rails of extruded aluminum with major portions of 3mm minimum thickness.
- .2 Join stiles to rails with sigma deep penetration welds and mechanical fastening.
- .3 Provide flush glazing.
- .4 Incorporate weatherstripping.
- .5 Provide for master-keyed lock cylinders.

.9 **Fastenings**

- .1 Where fastenings are exposed to dampness or moisture, use cadmium plated steel for steel-to-steel, aluminum for aluminum-to-aluminum, and stainless steel otherwise or alternatively for all above.
- .2 Where fastenings are not exposed to dampness or moisture, cadmium plated steel may additionally be used for all combinations of metals noted in immediately preceding sub-paragraph.

.10 **Thermal Movement**

Fabricate exterior units and assemblies to provide for expansion and contraction of component members and between units when subjected to surface temperatures from -34 deg.C to 82 deg.C.

.13 **Mullions**

Fabricate mullions to provide for specified thermal movement without damage to adjacent units.

.14 **Dissimilar Materials**

- .1 Protect material from electrolytic action when dissimilar metals are in contact with one another.
- .2 Protect aluminum concealed in contact with masonry with a heavy coating of bituminous paint.

.15 **Anchors**

- .1 Incorporate anchorage to structure for units at sills, heads and jambs on 450mm

- centres generally, and to support units adequately when subjected to specified loads.
- .2 Allow for complete adjustment in anchorage for levelling and positioning of units during installation.
- .16 **Attachment of Hardware**
- .1 Match hardware fastenings to metal of hardware.
.2 Attach hardware by bolts or machine screws into tapped reinforcing plates.
- .17 **Weatherstripping**
- .1 Secure weatherstripping in place by mechanical means only, and in a manner to enable its removal and replacement without special tools.
.2 Ensure that continuity of weatherstripping is maintained around openings.
.3 Install adjustable metal backed pile cloth weatherstripping recessed in stiles at jamb locations provided with latches and butt hinges, and in top rails of doors.
.4 Install adjustable sweeps at bottom rails of doors.
- .18 **Thermal Break**
- Incorporate a thermal break in frames in which insulating glass units are installed.
- .19 **Finishing**
- .1 For surfaces with zinc coating, clean and smooth ground surfaces at welds and prime areas from which zinc has been removed with a coating of zinc rich paint of minimum 0.102 mm thickness. Immediately following damage to galvanized protection prepare and repair surfaces to meet specified requirements of ASTM Specification A780.

PART 3 - EXECUTION

.1 Examination

- .1 Take critical site dimensions to ensure that adjustments in fabrication or installation are provided for, that allowance is made for possible deflection of structure at heads, and that clearances to other construction have been maintained.
.2 Ensure that anchors and inserts, installed by others, are adequate to meet specified requirements, and make adaptations before installation.

.2 Installation

.1 General

- .1 Coordinate fabrication of components specified in this Section with requirements of other Sections to ensure proper anchorage and fitting.
.2 Install components and units plumb, level and in accordance with shop drawings, by qualified experienced tradesmen and to conform to fabricator's instructions at location of testing and at site.
.3 Do not force units into place, nor superimpose on them loads for which they were not designed.
.4 Install vapour retarder and air barrier to ensure complete continuity and integration of vapour retarder and air barrier system.
.5 Provide structural support for air barrier to prevent its displacement or its loss of seal when subjected to forces specified for design performance.
.6 Install metal flashing to drain cavities in system. Secure flashings permanently to prevent displacement, leaks, and noise.
.7 Provide for thermal movement to take place between shop fabricated assemblies and between assemblies and adjacent construction.
.8 Secure units by non-corrosive anchorage materials. Use of wood or fibre is not acceptable.
.9 Conceal anchors, clips, blocking, and all other attachments.

- .10 Install reinforcing and supporting members as indicated and required structurally as part of the work of this Section.
- .11 Seal metal-to-metal joints between components included in the work of this Section to ensure a weathertight assembly, and in accordance with sealant manufacturer's specifications.
- .12 Install insulation where aluminum is exposed to the exterior to ensure that thermal conductance to interior of building is no more than thermal conductance of insulating glass units.
- .13 Install units with consideration for finish variations. Abrupt variations of appearance or colour in adjacent components will not be acceptable without approval before installation.
- .16 Coat all damaged prime painted surfaces of anchorage with rust inhibiting paint after welding is completed.
- .17 Apply two coats zinc rich paint to metal surfaces bared by removal of galvanizing.
- .18 Apply one coat of prime paint to metal surfaces bared by removal of shop applied primer.

.2 **Welding**

- .1 Perform welding in accordance with CSA Specification W59-1977. Exercise care during welding to minimize effect of welding heat. Design welds to prevent tearing at end of welds which could cause a progressive failure.
- .2 Detailed welding procedure covering specified welds on erection and shop drawings may be requested for approval by the Consultant.
- .3 Take precautions during welding to prevent damage or staining of adjacent surfaces.
- .4 Remove prime paint from surfaces to be welded.

.3 **Caulking**

Caulk joints between frame members and sills and adjacent construction as a part of the work of this Section and in accordance with Section 07920 of the specifications.

.4 **Glazing**

- .1 Install glass in units, as part of work of this Section and in accordance with Section 08800 of these specifications. Include manufacturer's standard glazing components to create prime seals.

.3 **Adjustment and Cleaning**

.1 **Adjusting**

- .1 Adjust doors to operate smoothly and fit tightly when closed and locked.
- .2 Adjust hardware to operate smoothly, with proper tension and lubricate.
- .3 Ensure that weatherstripping does not cause binding to prevent closing and locking, and that it makes weathertight contact.
- .4 Adjust closers after doors are glazed, and other hardware and vestibule doors are installed.

.3 **Cleaning on Completion of Installation**

- .1 Remove deposits which affect appearance or operation of units.
- .2 Remove protective materials.
- .3 Clean interior and exterior surfaces by washing with clear water; or with water and soap or detergent; followed by a clear water rinse.
- .4 Clean and restore stained metal surfaces in accordance with manufacturer's recommendations. Replace if cleaning is impossible.
- .5 Final cleaning is specified in Section 01710.

.4 Protection

- .1 Immediately upon completion of installation, suitably protect vulnerable edges, and exposed corners and surfaces. Protection shall prevent damage by mortar, paint or other hazards from the work of other trades.
- .2 Protect prefinished surfaces of metal with protective coatings or wrappings to remain in place until construction completion. Use materials recommended by finishers or manufacturers of metals to ensure that method is sufficiently protective, easily removed, and harmless to finish.
- .3 Remove protection from metal glazing surfaces before installation of glass.
- .4 Maintain protection from time of installation to final cleanup in accordance with Sections 01040 and 01500.

End of Section