COAST DESIGN INC.

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Addendum #4

Oct 17th, 2019

32 Unit Seniors' Housing Complex	Transportation, Infrastructure and Energy
Pioneer Ave. Charlottetown, PE	Project # 5510-19025

The following amendment to the tender documents is effective immediately. This addendum shall form part of the contract documents.

Note: Please ensure this addendum number is noted in the final bid.

Item **Description**

SPECIFICATIONS

Architectural

1. Reference section 00 41 10 Bid Form
    a. Clarification: Stipulation sum of the bid is to include the Basis-of-Design for Section 07 61 00 Sheet Metal Roofing is as specified product in para 2.5.3 Vic West, Elite Metal Roofing, hidden fastener system.

       If bidder is providing the approved alternate product: Cascadia Metal, 24 gauge SMP or PVDF, Mechanical Standing Seam as specified in Addendum #3,
       please add para 1.8 as per example below.

       1.8 The cost of the following items of work are not included in the stipulated sum.

Specified Product	Alternate product	Add/Deduct
1. Vic West, Elite 28 ga	Cascadia Metal, 24 ga	$ _____

2. Reference Section 08 11 16 Aluminum Doors and Frames
    a. Refer to paras 2.1.3.1 and 2.1.3.2 - Clarification: Front Entry Door #118.1 and Front Hall Door #120.1 material is to be Aluminum.

3. Add specification section 09 51 13 Acoustical Panel Ceilings which is included with and forms part of this addendum.

4. Add specification section 09 53 00.01 Acoustical Suspension which is included with and forms part of this addendum.

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5. Reference Section 07 61 00 Sheet Metal Roofing
    a. Delete Para 2.5.2.5.2 entirely and replace with:
    Colour: Colour as selected by Consultant from manufacturers' standard stocked colours.
    b. Para 2.6.5 Pipe-type Snow Retention System
    Clarification: Allow for approximately 150 linear feet of snow guards.

DRAWINGS

Architectural

1. Reference page A415
    a. Stair Landing Framing Details:
    For bidding purposes, assume all stair landings will be framed with minimum 2"x8" lumber products.

2. Reference page A503
    a. Room Finish Schedule
    Clarification: Stair landings and stair treads are to be the same vinyl wood plank as the hallways, the stair risers are to be rubber and the stair stringers are to be painted wood.

End of Addendum

Part 1 General

1.1 RELATED REQUIREMENTS

.1 Section 09 21 16 – Gypsum Board Assemblies.

.2 Section 09 53 00.01 – Acoustical Suspension.

.3 Division 23 – Mechanical.

.4 Division 26 – Electrical.

.5 Legends on Drawings and Schedule.

1.2 REFERENCES

.1 ASTM International (ASTM)

.1 ASTM C423-17, Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

.2 ASTM E1110-06(2011), Standard Classification for Determination of Articulation Class.

.3 ASTM E1111/E1111M-14, Standard Test Method for Measuring the Interzone Attenuation of Open Office Components.

.4 ASTM E1264-14 Standard Classification for Acoustical Ceiling Products.

.5 ASTM E1414/E1414M-16 Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum.

.2 CSA Group (CSA)

.1 CSA O141-05 (R2014), Softwood Lumber.

.3 Underwriter's Laboratories of Canada (ULC)

.1 CAN/ULC S102-10, Surface Burning Characteristics of Building Materials and Assemblies.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

.1 Submit in accordance with Section 01 33 00 – Submittal Procedures.

.2 Product Data:

.1 Submit manufacturer's printed product literature, specifications and data sheet for each product specified.

.3 Samples:

.1 Submit duplicate full-size samples of each type of acoustical unit.

.2 Include accessories and mitered interior and exterior corners of wall moulding.

.4 Shop Drawings.

.1 Submit Shop Drawings: Layout and details of acoustical ceilings. Show locations of items which are to be coordinated with, or supported by the ceilings.

.5 Certifications: submit manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards. For acoustical performance, each carton of material shall carry an approved independent laboratory classification of NRC, CAC, and AC.

1.4 QUALITY ASSURANCE

.1 Single-Source Responsibility: Provide perimeter trim components, panels and grid components by a single manufacturer.

.2 Coordination of Work: Coordinate acoustical ceiling work with installers of related work including, but not limited to applied fireproofing, insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

.3 Certifications: submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

.4 Products shall meet or exceed Building Code requirements.

.5 Mock-up:

.1 Construct mock ups in accordance with Section 01 45 00 – Quality Control.

.2 Construct mock up 10 m^2 minimum of each type acoustical panel, tile ceiling including one inside corner and one outside corner.

.3 Construct mock up where directed.

.4 Allow 24 hours for inspection of mock-up by Consultant before proceeding with ceiling work.

.5 When accepted, mock up will demonstrate minimum standard for this work. Mock up may remain as part of the finished work.

1.5 DELIVERY, STORAGE AND HANDLING

.1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.

.2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.

.3 Storage and Handling Requirements:

.1 Store materials indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.

.2 Store and protect acoustical ceiling tiles and tracks from nicks, scratches, and blemishes, and other types of damage that may impair installation processes, resultant functionality, or durability of installation.

.3 Replace defective or damaged materials with new.

1.6 SITE CONDITIONS

.1 Permit wet work to dry before beginning to install (e.g., paint, caulking, etc.).

.2 Maintain uniform minimum temperature of 15 °C and humidity of 20 40% before and during installation.

.3 Store materials in work area 48 hours prior to installation.

1.7 EXTRA MATERIALS

.1 Provide extra materials of acoustic units in accordance with Section 01 78 00 Closeout Submittals.

.2 Provide 2 sealed cartons of each type and finish of acoustical units incorporated into the Work.

.3 Ensure extra materials are from same production run as installed materials.

.4 Clearly identify each type of acoustic unit, including colour and texture.

.5 Deliver to Owner upon completion of the work of this section.

1.8 WARRANTIES

.1 Contractor agrees to correct any deficiencies in labour or material found in the work performed for a period of 2 years from date of Substantial Performance.

.2 Submit manufacturer's warranty in accordance with the requirements of Section 01 78 00 - Closeout Submittals, made out in Owner's name, for each Product specified.

Part 2 Products

2.1 DESIGN REQUIREMENTS

.1 Maximum deflection: 1/360th of span to ASTM C635 deflection test.

2.2 MATERIALS

.1 Gypsum Board Ceilings: Refer to Section 09 21 16 – Gypsum Board Assemblies for gypsum board ceilings.

.2 Acoustical Panel Ceilings:

.1 Ceiling Tiles: 24" X 24"; Armstrong Fissured #756 (white, square lay-in 15/16").

.2 Exposed Edge Trim: Armstrong Axiom 100mm Edge Profile - RAL9010.

.3 Transitions: Armstrong Axiom Transitions, by Armstrong, types as required to suit transition conditions.

.3 Accessories: manufacturer's supplied or recommended accessories as required for complete installations.

.4 Suspension systems: to Section 09 53 00.01 – Acoustical Suspension specifications.

Part 3 Execution

3.1 EXAMINATION

.1 Verification of Conditions: verify that conditions are acceptable for product installation in accordance with manufacturer's written instructions.

.1 Check and verify that no irregularities exist that would affect quality of execution of work specified.

.2 Inform Consultant of unacceptable conditions immediately upon discovery.

.3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Consultant.

3.2 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: comply with manufacturer's printed preparation and installation instructions, technical datasheets, and specifications.

3.3 COORDINATION AND SEQUENCING

.1 Coordinate and sequence work with work of other trades to ensure proper installations, maintenance of project construction schedule, and completion of necessary work that is required above suspended ceiling system. Do not install panels until work above ceiling panels has been reviewed by Consultant.

.2 Coordinate ceiling work to accommodate components of other sections, such as light fixtures, diffusers, speakers, sprinkler heads, to be built into acoustical ceiling components.

.3 Work of Section 09 53 00.01 - Acoustical Suspension shall be coordinated, and in place as required, ready for installation of panels.

3.4 INSTALLATION

.1 Install acoustical panels and tiles in ceiling suspension system in accordance with manufacturer's printed installation instructions and details.

.2 Install acoustical units parallel to building lines with edge unit not less than 50% of unit width with directional pattern running in same direction. Refer to reflected ceiling plan.

.3 Scribe acoustic units to fit adjacent work. Butt joints tight, terminate edges with moulding.

3.1 CLEANING

.1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning. Leave Work area clean at end of each day.

.2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning. Perform cleaning after installation to remove construction and accumulated environmental dirt.

.3 Manage and dispose of demolition and construction waste materials in accordance with Section 01 74 21 – Construction Waste Management.

3.2 PROTECTION

.1 Protect installed products and components from damage during construction.

.2 Repair damage to adjacent materials caused by Work of this Section.

END OF SECTION

Part 1 General

1.1 RELATED REQUIREMENTS

.1 Section 09 51 13 – Acoustical Panel Ceilings.

.2 Section 09 21 16 – Gypsum Board Assemblies.

.3 Division 23 – Mechanical.

.4 Division 26 – Electrical.

.5 Schedules.

1.2 REFERENCES

.1 ASTM International (ASTM)
- .1 ASTM A641/A641M-09a(2014), Standard Specification for Zinc–Coated (Galvanized) Carbon Steel Wire.
- .2 ASTM C635/C635M-13a, Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
- .3 ASTM C636/C636M-13, Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

.1 Submit in accordance with Section 01 33 00 - Submittal Procedures.

.2 Product Data:
- .1 Submit manufacturer's instructions, printed product literature and data sheets for acoustical suspension and include product characteristics, performance criteria, physical size, finish and limitations.

.3 Shop Drawings:
- .2 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Ontario, Canada.
- .3 Submit reflected ceiling plans for special grid patterns as indicated.
- .4 Indicate lay-out, insert and hanger spacing and fastening details, splicing method for main and cross runners, location of access splines, change in level details, access door dimensions, and locations, acoustical unit support at ceiling fixture, and lateral bracing and accessories.

.4 Samples:
- .5 Submit for review and acceptance of each unit.
- .6 Samples will be returned for inclusion into work.
- .7 Submit one representative model of each type ceiling suspension system.
- .8 Ceiling system to show basic construction and assembly, treatment at walls, recessed fixtures, splicing, interlocking, finishes, acoustical unit installation.

1.4 CLOSEOUT SUBMITTALS

.1 Submit in accordance with Section 01 78 00 - Closeout Submittals.

.2 Operation and Maintenance Data: submit operation and maintenance data for acoustical suspension for incorporation into manual.

1.1. MOCK-UPS

.1 Erect mock-up in accordance with Section 01 33 00.

.2 Construct in locations acceptable to Consultant a typical sample installation. Modify sample as directed and as required to obtain approval. Upon acceptance retain sample as standard of quality for acoustical ceiling.

.3 Do not begin fabrication and erection of remainder of ceiling system until sample installation has been reviewed and accepted. Accepted sample to become a part of the final Work, subject of approval of Consultant.

1.2. CERTIFICATE OF COMPLIANCE

.3 Provide certificate of compliance stating that the suspension system provided, including materials and installation, comply with the requirements of the Contract Documents.

1.5 QUALITY ASSURANCE

.1 Certifications: submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

.2 Coordinate and sequence work to permit electrical, mechanical and fireproofing work to be performed before installing suspension systems. Coordinate installation and anchors and tie wire with fireproofing to ensure applied fireproofing is not compromised by installation work.

1.6 DELIVERY, STORAGE AND HANDLING

.1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.

.2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.

.5 Storage and Handling Requirements:
- .1 Store materials indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
- .2 Store and protect acoustical ceiling tiles and tracks from nicks, scratches, and blemishes, and other types of damage that may impair installation processes, resultant functionality, or durability of installation.
- .3 Replace defective or damaged materials with new.

1.7 WARRANTIES

.1 Contractor agrees to correct any deficiencies in labour or material found in the work performed for a period of 2 years from date of Substantial Performance.

Part 2 Products

2.1 DESIGN

.1 Design Requirements: maximum deflection: L/360 of span to ASTM C635/ASTM C635M deflection test.

.2 Subject to the requirements of Section 01 62 00 - Product Options and Substitutions, refer to schedules on Drawings suspension system requirements. Coordinate with Drawings.

.3 Design suspension system to support safely, and without distortion, the superimposed loads of:

.1 Air supply diffusers and return grilles.

.2 Lighting fixtures according to local building regulations and submit permits as required under the Ontario Building Code and Canadian Electrical Code.

.4 Coordinate installation and cooperate with mechanical and electrical Subcontractors, to accommodate mechanical and electrical items, or any other work required to be incorporated in or coordinated with the ceiling system.

2.2 METAL SUSPENSION SYSTEMS

.1 Dielectric Separator / Isolation Coating: Eck® Corrosion Prevention Coating, by Van Nay, LLC, or approved equivalent.

.2 Concrete hanger anchors; post installed: Steel eye bolts and nuts to suit ceiling hangers with capability to sustain, without failure, a load equal to 4 times that imposed by ceiling construction, as determined by testing per ASTM E488, conducted by a qualified independent testing laboratory.

.1 Dynabolt Sleeve Anchor 'TW-1614' or Readi-Tie-Drive 'TD4-112' tie wire anchor by ITW Ramset/Red Head.

.2 Kwik-Bolt II 'HCKB 1/4' tie wire anchor by Hilti Corporation.

.3 Fasteners exposed to weather, condensation, and corrosion: Zinc-plated or stainless steel fasteners in applicable product lines specified in preceding paragraphs.

.3 Hangers: Galvanized wire, typically, special stainless steel (see item 2.2.5 below) at natatorium and any room or space contiguous with the natatorium, recommended by manufacturer of suspension system, minimum 2.66 mm diameter.

.4 Tie Wire: 1.519 mm diameter, galvanized steel wire.

.5 Metal Finish: Metal exposed in finished work shall have a pre-coated baked enamel finish in non-yellowing, flat white. Submit paint formulation of grid system to lighting fixture, speaker grille, sprinkler and diffuser manufacturers to ensure consistency of colour, sheen and texture of all exposed metal components in the ceiling assemblies.

.6 Standard Suspension systems:

.1 System at (ACT-1 to ACT-4 Ceilings): Standard exposed grid system, 'Prelude' by Armstrong or DX FastLoc by CGC or System 1200 by Chicago Metallic Corp. or equivalent system by other manufacturer approved by Consultant and as follows:

.1 Main tees: 38 mm high x 25 mm exposed face bulb section, minimum 0.5 mm thick cold rolled galvanized steel.

.2 Cross tees: 25 mm wide, minimum 0.5 mm thick cold rolled galvanized steel; profile designed to limit deflection to 1/360 of span; designed to have suitable detail to rest on, automatically engage, level and lock to main tee.

.3 Wall moulding: pre-finished 25 mm exposed face galvanized steel shadow moulding with 13 mm reveal, #7875 by Armstrong or equal. Use preformed corner mouldings.

.4 Wall mouldings at round columns: Extruded aluminum with white finish to match ceiling grid, Fry Column Collar for acoustic ceilings with white PVC spacer.

.5 Hangers: minimum 2.5 mm galvanized steel wire.

.6 Carrying channels: minimum 1.5 mm thick cold-rolled galvanized steel channels 50 x 25 mm.

.2 Unless otherwise specified or indicated on drawings, finish for exposed metal surfaces: satin enamel white and bright white, matching acoustic panels.

.3 Provide hot dipped galvanized suspension system for high-humidity areas; confirm locations with Consultant prior to ordering materials and installing suspended ceilings (examples of high-humidity rooms are rooms like laundry, kitchen, any room with a shower stall in it, and similar). Provide white enamel finish on exposed surfaces.

.4 Suspension system accessories: Splices, clips, and perimeter shadow moulding, of manufacturer's standard type to suit the applicable conditions unless special conditions and access area are shown or specified.

.5 Ceiling trim at recessed roll down window blinds: Clear anodized extruded aluminum "T" trim, 38 mm exposed face, 19 mm vertical leg, to suit roll down blind mounting.

Part 3 Execution

3.1 EXAMINATION

.1 Verification of Conditions: verify that conditions are acceptable for product installation in accordance with manufacturer's written instructions.

.1 Check and verify that no irregularities exist that would affect quality of execution of work specified.

.2 Inform Consultant of unacceptable conditions immediately upon discovery.

.3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Consultant.

3.2 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: comply with manufacturer's printed preparation and installation instructions, technical datasheets, recommended details and specifications.

3.3 ISOLATION COATING

.1 Apply Eck® isolation coating to contact surfaces in contact with cementitious materials, wood materials, and dissimilar metals.

.2 Apply Eck® into all drilled holes, onto all fasteners (e.g., bolts, screws, rivets) and between all flat surfaces (e.g., behind door handles, hinges, lamp-housings, diamond plate, mirror housing, latches, brackets, door trim, frame rails, suspension mounts, etc).

.3 Generally, 2 – 3 mil thickness is required per application. Each application needs enough product applied so that excess Eck® "oozes out" during assembly (this will ensure you have created a proper seal).

.4 Assemble and wipe away any excess product.

3.4 INSTALLATION - GENERAL

.1 Do not start installation until exterior glazing has been completed and exterior openings are closed in. Ensure wet work is completed and dried out to a degree acceptable to panel manufacturer before installation is commenced. Maintain uniform temperatures of at least 16 °C for 72 hours prior to commencement of the work of this section and maintain temperature until completion of the work of this section.

.2 Install ceiling panels and metal suspension system in accordance with manufacturer's directions. Where manufacturer's directions are at variance with Contract Documents, notify Consultant before proceeding with installation.

.3 Do not commence installation until all work above suspended ceiling has been completed, inspected and accepted.

.4 Ensure that work to be concealed by ceiling systems has been installed, tested, inspected, and approved before starting work.

.5 Lay out ceilings in accordance with reflected ceiling plans and symmetrical within each area to obtain uniform borders. Where layout is not shown, install ceilings as directed by Consultant.

3.5 INSTALLATION - SUSPENSION SYSTEM

.1 Install suspension system rigid, secure, square, level and plumb, framed and erected to maintain dimensions and contours indicated, and in accordance with ASTM C636, CISCA installation standards and any other applicable national or local code requirements. Make allowance for thermal and structural movement.

.2 Suspend ceilings directly from structural members and not from ducts, pipes, conduits.

.3 Where ductwork, piping and other elements within ceiling spaces interfere with direct suspension of ceiling from structure, install additional framing securely fastened to main structure to accommodate proper hanging of ceiling.

.4 At light fixtures occurring on and in suspended ceilings, provide suspension hanger at each corner of fixture and at maximum 610 mm on centre around perimeter of fixture.

.5 Attach hangers to structure with inserts and hanger supports. Do not use powder activated fasteners.

.6 Support hangers for suspended ceiling grid independent of walls, columns, pipes and ducts.

.7 Space hangers for ceilings at maximum 1220 mm (48") on centre in both directions. Provide additional hangers as required.

.8 Locate hangers at not more than 150 mm (6") from ends of main tee members.

.9 Erect suspension systems at required heights and water tube, transit, or laser beam level to tolerance of 1:1200.

.10 Allowable tolerances: to ASTM C636.

.11 Design suspension systems for a maximum mid-span deflection not exceeding L/360.

.12 Install exposed tee members to pattern indicated. Securely attach hangers to main tee members.

.13 Exposed tees shall be as long as possible to minimize joints. Make joints square, tight, flush and reinforce with splines. Distribute joints to prevent clustering in one area.

.14 Space tee bars to suit ceiling panels and as detailed, and to accommodate lighting fixtures, diffusers and return grilles.

.15 Cooperate in the installation of ceiling systems, making adjustments where required to ensure that the lighting fixtures, supply diffusers, exhaust grilles and other built-in items properly fit into ceiling module and finish flush with rest of ceiling.

.16 Restrict creep inside module panels so that in all cases strips are centred on module lines.

.17 Install perimeter shadow moulding where ceiling abuts vertical surfaces and abuts adjacent gypsum board ceiling system. Mitre all corners, use maximum lengths to minimize joints. Make joints square, tight and flush.

.18 Apply continuous ribbon of acoustical sealant, concealed on back of vertical leg before installing mouldings.

.19 Screw attach mouldings to substrates at intervals not more than 400 mm (16") on centre and not more than 210 mm (8") from ends, levelling with suspension system to tolerance of 3 mm in 3660 mm (1/8" in 12'-0"). Mitre corners accurately and connect securely.

.20 Provide perimeter shadow wall mouldings and cross tees at radiant heating panels mounted in both acoustic and gypsum board ceilings, as required to support heating panels (full perimeter). Provide cross tees at joints, splices, intermediate supports and access panels in radiant heating panels. Design system to adequately support radiant heating units. Coordinate with Mechanical Division.

.21 Provide metal edge trim at perimeter of floating acoustic ceiling system at required locations, as detail. Provide concealed connections to suspension system and prefabricated covers.

3.6 ROLL DOWN BLINDS (ROLLER WINDOW SHADES)

.1 Install mounting brackets for blinds head assembly supplied by Section 12 21 16 - Roller Shades where blinds are to be recessed into ceiling assembly. Securely fasten to supporting substrate, at maximum 1500 mm spacing and at ends of each blind unit.

.2 Supply and install clear anodized extruded aluminum ceiling trim at recessed roll down blinds head assembly, continuous full length of blinds and window opening. Securely fasten trim to blind mounting brackets.

.3 Coordinate installation of roll down blind mounting brackets and ceiling trim with Section 09 21 16 - Gypsum Board Assemblies. Install brackets and trim level, flush with adjacent ceiling. Ceiling framing system not to be fastened to or supported on blind brackets and trim.

3.7 INSTALLATION - TILES

.1 Take precautions during installation to ensure tile edges are not chipped or otherwise damaged.

.2 Install acoustical tiles to form horizontal and level ceiling with all parts flush and joints butted tightly to hairline appearance.

.3 Distribute variations in colour and texture of panels to obtain a uniform appearance.

.4 Minimize field cutting. Where necessary, match factory cut edge and colour.

.5 Install tiles so that work is clean and unmarked.

.6 Neatly cut and fit tiles as required to suit ceiling layout and to accommodate other work.

.7 Recessed items shall replace or be centred on tile unless otherwise indicated.

3.8 CLEANING

.1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning. Leave Work area clean at end of each day.

.2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning. Perform cleaning after installation to remove construction and accumulated environmental dirt.

.3 Manage and dispose of demolition and construction waste materials in accordance with Section 01 74 21 – Construction Waste Management.

3.9 PROTECTION

.1 Protect installed products and components from damage during construction.

.2 Repair damage to adjacent materials caused by Work of this Section.

END OF SECTION