

Addendum #1

DATE: 6-10-14

CONTENT FOR ADDENDUM #1:

- 1. Smith Dalia Architects – Addendum #1.**
- 2. All Bids must be submitted on Bid Form (see attachment).**
- 3. Attachment - Bid Form.**

A D D E N D U M N O . : 0 1

Project Name:	Metropolitan Library
Project Number:	11165

Date:	9 June 2004
To:	Evan Jahn - Heery/Russell; Jeff Lewis, William Mensah - Winter-Construction
From:	Sara Singleton, SDA
Copies:	Robyn Zurfluh, Craig Wertz, Glenn Grosse - SDA

This addendum forms a part of the Contract Documents and modifies the original "Revised Pricing Documents" dated 05/28/14.

This Addendum includes an addition to Specifications, & changes to Architectural drawings:

CHANGES TO ARCHITECTURAL DRAWINGS:

1. **A100-** Waterproof membrane added along exterior face of retaining walls at Grid line M, and Grid line 4.
2. **A111-** Slabs under Entry canopies to be removed from this plan- refer to Landscape for exterior paving/sidewalk extents.
3. **2/A502-** Keep the partial height knee wall (top of wall to be 1021'-8", verify with final grading) at exterior walls along Grid line P and Grid line 1, break concrete wall for door location, and notch out t.o. wall as required for thru-wall mechanical louvers along Grid Line P. Also refer to 5/S204.
4. **2 & 4/A300-** End paneling on walls of Metal Panel spine to be Impact-Resistant panels. See attached ASD 01.
5. **A101-** ADA button for Entry doors to be attached to bollard, and not on building wall. This also impacts E111 junction box locations. See ASD 02.
6. **A500 & A700-** Stainless Steel corner & edge guard/transition to be added to wood paneled wall (Refer to 9-10, 13-14/A700 & detail 5/A500). Also the plan detail for 5/A500 has been modified to reduce the amount of wood paneling, and make transition back to drywall at the Expansion Joint. See ASD 3.
7. **1/A504-** Add metal panel to underside of Free Standing Canopy, lighting to be flush with outside of panel. See updated detail on ASD-04.
8. **15/A713-** Change support of Women, Men, & Family vanity to be with a painted, steel frame (with intermediate steel supports angled back, bolted back to wall) in place of Plam brackets support.
9. **A131-** Addition of tile backsplash to Staff Lounge, and Serving above countertop/below upper cabinets. Add FRP panels to Janitor Closet (up to 6'-0" AFF).
10. **A503-** Detail to include 1.5" ISO in lieu of cover board at standard metal decking over meeting room portion of building (Detail 1 & 2), and at main library roof if Metal Roof deck Type 2-B is selected. No cover board needed over main library if Metal Roof deck Type 2-A is selected (Detail 6).
11. **Clarification, A504-** Exterior entrance canopy roofs with TPO applied to have cover board attached to decking, as shown in details. Cover board to be glass mat sheathing, minimum 1/2"

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thickness.

CHANGES TO STRUCTURAL DRAWINGS:

1. **5/S204-** See #2 of Architectural Drawings above.
2. **S111-** Exterior slabs under Entrance canopies are to be removed from structural scope. To be in Landscape. Also reference above in Architectural Drawings #2.
3. **10/S501-** Braced frame along grid N can be revised from HSS tube bracing to 1.5" diameter rod bracing, if needed.
4. **S111 along Grid line Q, and corresponding details-** Potential settlement of shallow foundations needs to be addressed. The revised geotechnical report states that there should not be any impact on the settlement of shallow foundations when the system performs as designed. Some form of monitoring should be in place to verify that the system is performing as designed for any possible settlement effects.

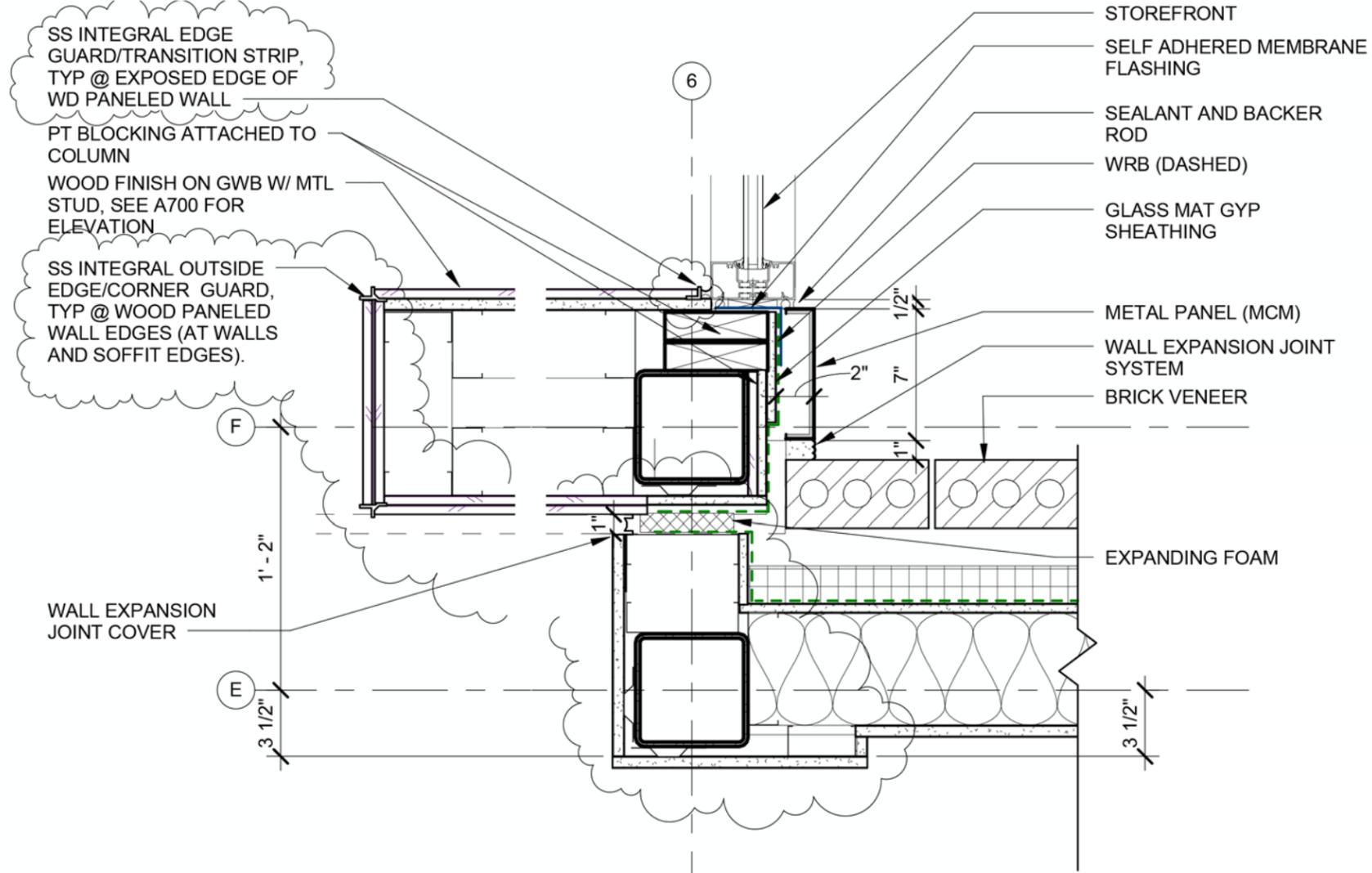
CHANGES TO ELECTRICAL DRAWINGS:

1. **E111-** See #4 of Architectural Drawings above.

CHANGES TO SPECIFICATIONS:

1. 07 1400 Fluid-Applied Waterproofing (new section).
2. 07 5400 Thermoplastic Membrane Roofing- Change to Insulation.
3. 09 3000 Tiling. Installation methods updated, see 09 3000 2.05, 3.04, & 3.05. Tile dap-out details are included in ASD 05.
4. 22 4000-2.03B Specification for Lavatory LV-1 to be changed to Kohler K-2330-0, White.
5. 22 4000-2.03B Specification for Water Cooler ECW-1 to be changed to Elkay EZSTL8WSLK EZH20 Bi-Level Unfiltered Water Bottle Filling Station, or similar to provide a Bottle Filler integrated into the water cooler.

END OF ADDENDUM



5 PLAN DTL @ MEETING ROOM ENTRY AT EXTERIOR WALLS
 A500 SCALE: 1 1/2" = 1'-0"

SS INTEGRAL EDGE
 GUARD/TRANSITION STRIP,
 TYP @ EXPOSED EDGE OF
 WD PANELED WALL

PT BLOCKING ATTACHED TO
 COLUMN
 WOOD FINISH ON GWB W/ MTL
 STUD, SEE A700 FOR
 ELEVATION

SS INTEGRAL OUTSIDE
 EDGE/CORNER GUARD,
 TYP @ WOOD PANELED
 WALL EDGES (AT WALLS
 AND SOFFIT EDGES).

- STOREFRONT
- SELF ADHERED MEMBRANE
 FLASHING
- SEALANT AND BACKER
 ROD
- WRB (DASHED)
- GLASS MAT GYP
 SHEATHING
- METAL PANEL (MCM)
- WALL EXPANSION JOINT
 SYSTEM
- BRICK VENEER

SUPPLEMENTAL DRAWING
 WOOD-PANELED WALL CORNER
 DETAIL
 SCALE: 1-1/2" = 1'-0"

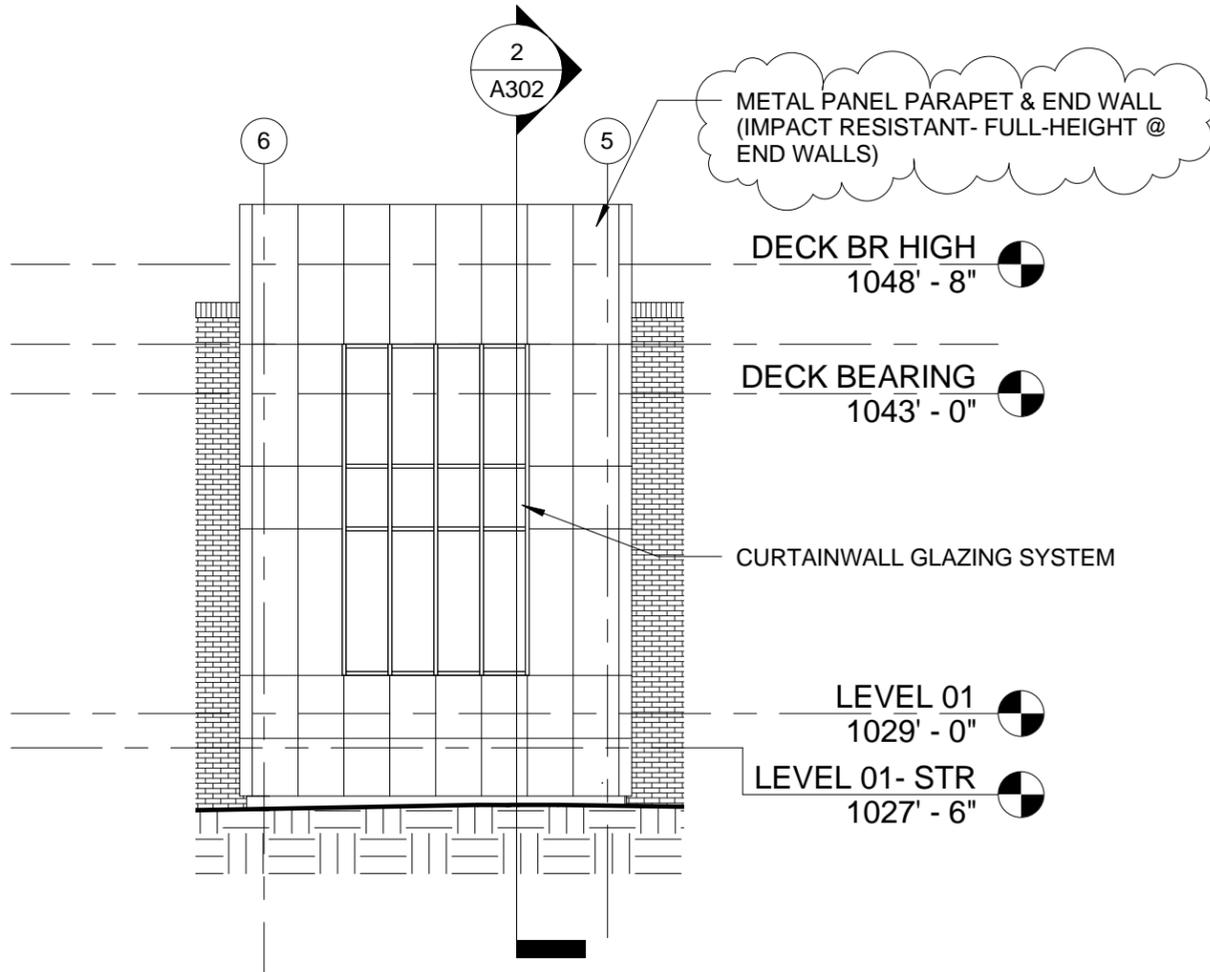
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SHEET NO:
ASD 03
 ADDENDUM 01

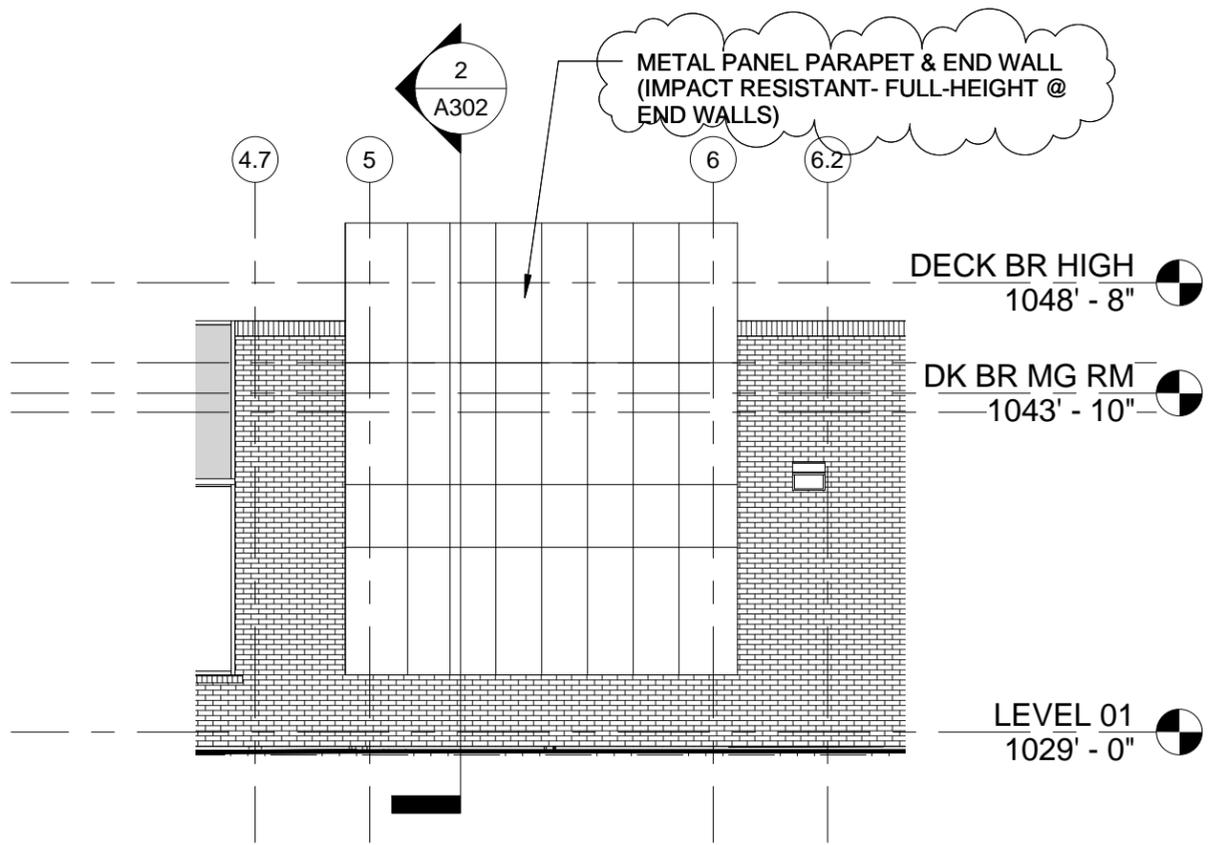
Project No: 11165
 DATE: 06/09/14
 REFERENCED DRAWING:
 5/A500 & A700

NOT FOR CONSTRUCTION

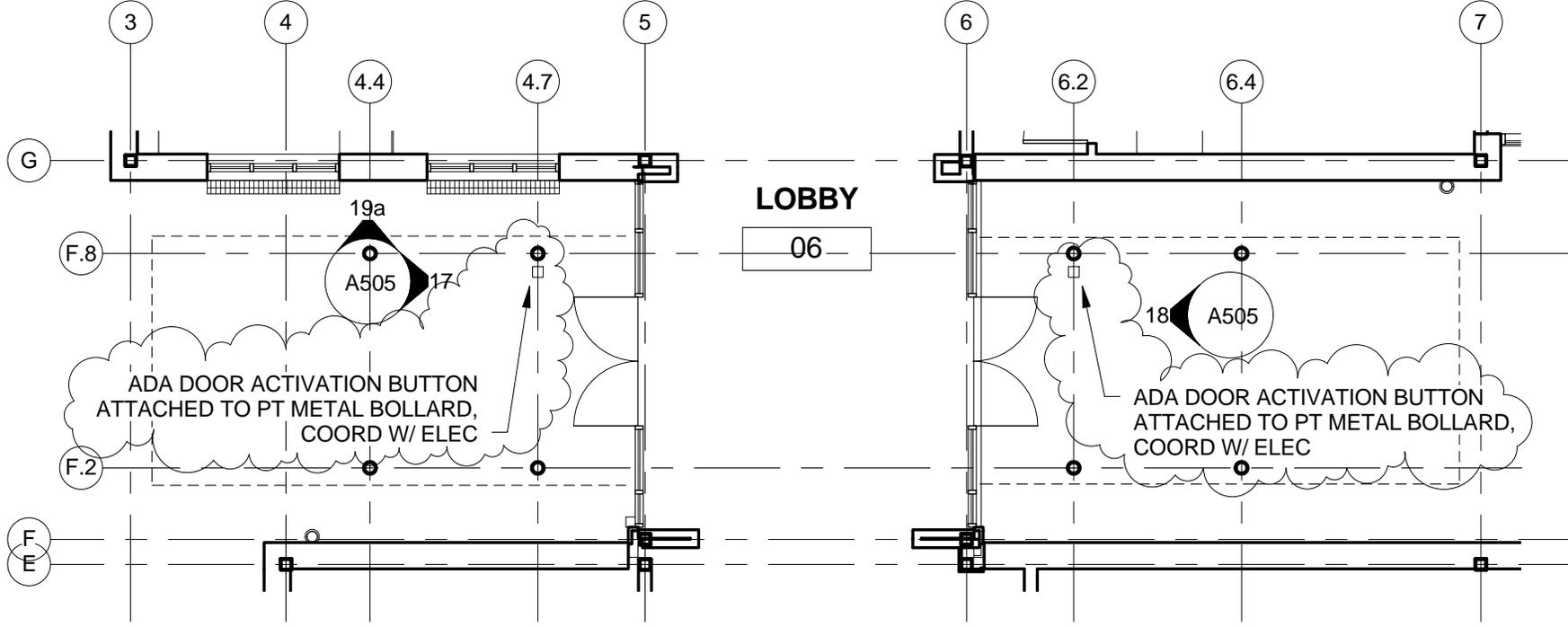
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1 PARTIAL NORTH ELEVATION
 ASD 01 SCALE: 1/8" = 1'-0"



2 PARTIAL SOUTH ELEVATION
 ASD 01 SCALE: 1/8" = 1'-0"



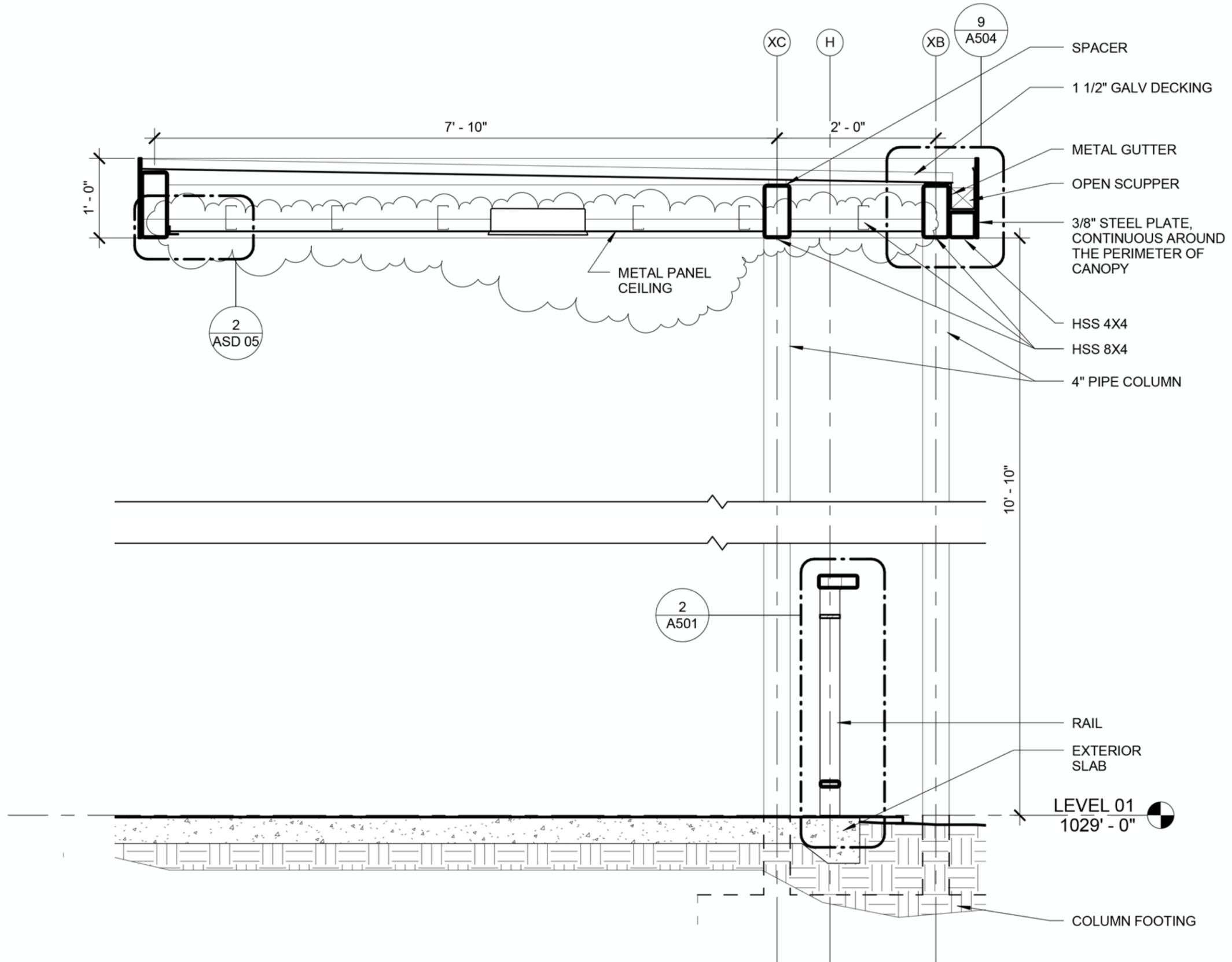
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Supplemental Drawing
**ADA PUSH-BUTTON DOOR
 ACTIVATION BOLLARD
 LOCATIONS**
 Scale: 1/8" = 1'-0"

Project No: 11165
 Date: 06/09/14
 Referenced Sheet:
 A101

Sheet No.:
ASD 02
 ADDENDUM 01
 NOT FOR CONSTRUCTION



1 FREE STANDING CANOPY SECTION DETAIL
 A504 SCALE: 3/4" = 1'-0"

SHEET NO:
ASD 04
 ADDENDUM 01

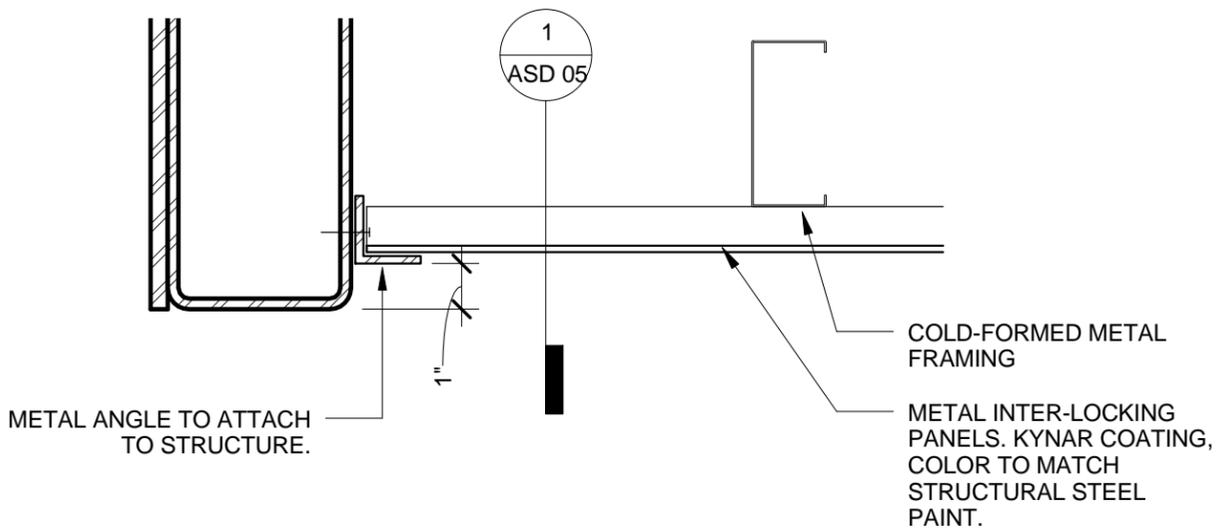
Project No: 11165
 DATE: 06/09/14
 REFERENCED DRAWING:
 1/A504

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SUPPLEMENTAL DRAWING
 METAL PANEL CEILING ADDED TO
 FREE-STANDING CANOPY
 SCALE: 3/4" = 1'-0"

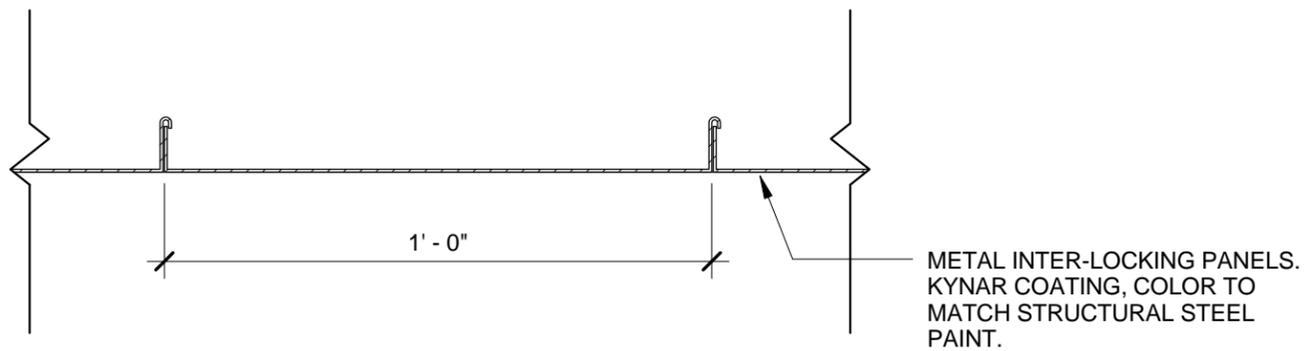
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TYP DETAIL @ CEILING CONNECTION TO FREE-STANDING CANOPY

2
ASD 05
SCALE: 3" = 1'-0"



SECTION @ FREE-STANDING CANOPY CEILING

1
ASD 05
SCALE: 3" = 1'-0"

INTERIOR FLOORS OVER CONCRETE

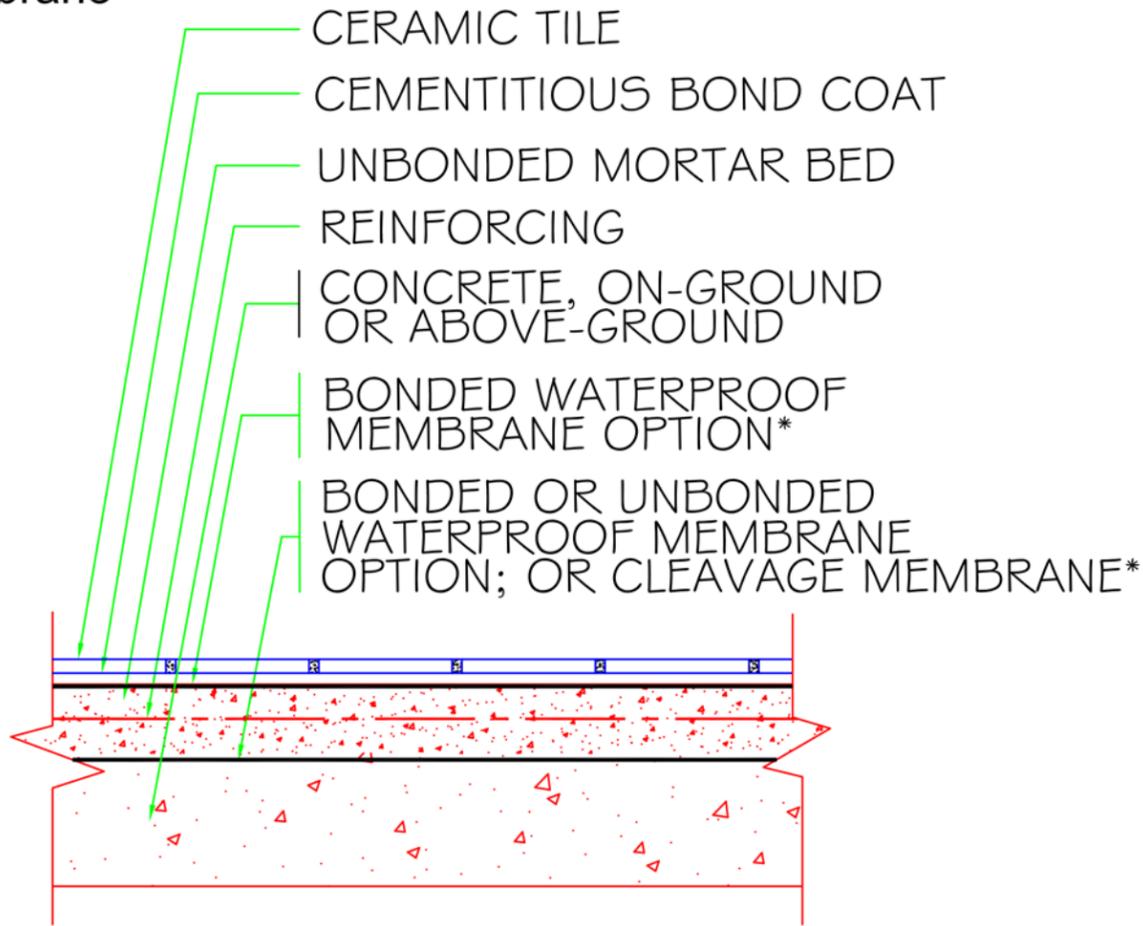
On-Ground or Above-Ground Concrete

F121-13

Unbonded Mortar Bed

Waterproof Membrane

Ceramic Tile



*USE OF A MEMBRANE IS REQUIRED.
SEE MEMBRANE OPTIONS.

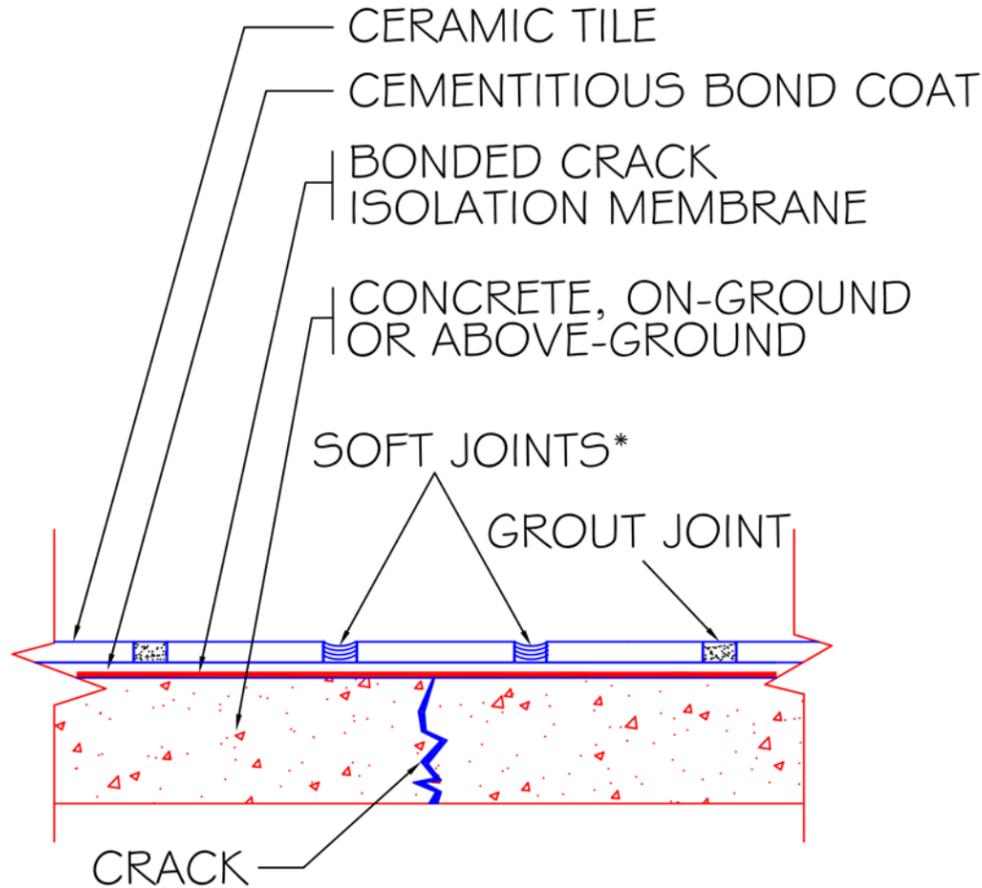
INTERIOR FLOORS OVER CONCRETE

On- or Above-Ground Concrete

F125-Full-13

Crack Isolation Membrane (Full Coverage)

Ceramic Tile



*ONE OR TWO SOFT JOINTS MAY BE
REQUIRED (CONSULT MANUFACTURER)

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Addendum 01

SECTION 07 1400
FLUID-APPLIED WATERPROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fluid Applied membrane waterproofing and crack isolation membrane at interior floor tile applications.

1.02 RELATED REQUIREMENTS

- A. Section 03 3000 - Cast-in-Place Concrete: Concrete substrate.
- B. Section 09 3000 Tiling

1.03 REFERENCE STANDARDS

- A. ASTM C1306 - Standard Test Method for Hydrostatic Pressure Resistance of a Liquid-Applied Waterproofing Membrane; 2008.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for membrane and surface conditioner.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacture of fluid-applied waterproofing membranes with three years experience.

1.06 FIELD CONDITIONS

- A. Maintain ambient temperatures above 40 degrees F (5 degrees C) for 24 hours before and during application and until cured.

1.07 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Contractor shall correct defective Work within a five year period after Date of Substantial Completion; remove and replace materials concealing waterproofing at no cost to Owner.
- C. Provide five year manufacturer warranty for waterproofing failing to resist penetration of water , except where such failures are the result of structural failures of building. Hairline cracking of concrete due to temperature change or shrinkage is not considered a structural failure.

PART 2 PRODUCTS

2.01 MANUFACTURERS

2.02 WATERPROOFING APPLICATIONS

- A. Under-Tile Waterproofing and Anti-Fracture Membrane: Use at restrooms and lobby spaces..

2.03 MEMBRANE AND FLASHING MATERIALS

- A. Under-Tile Waterproofing and Anti-Fracture Membrane: Specifically designed for bonding to concrete, backer boards, and plywood under ceramic tile; complying with ANSI A118.10.
 - 1. Basis of Design: Hydro-ban manufactured by Laticrete.
 - 2. Equivalent products made by manufacturers listed above are also acceptable.
 - 3. Material: Fluid-applied water-based SBS rubber membrane, 40 mils (1 mm) thick, minimum, with polyester fabric reinforcing at edges, corners, joints, and cracks.
- B. Flexible Flashings: Type recommended by membrane manufacturer.
- C. Joint Cover Sheet: 1 inch (25.4 mm) thick elastic sheet material designated for and compatible with membrane.

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2.04 ACCESSORIES

- A. Surface Conditioner: _____ type, compatible with membrane compound; as recommended by membrane manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that substrate surfaces are smooth, free of honeycomb or pitting, and not detrimental to full contact bond of waterproofing materials.

3.02 PREPARATION

- A. Do not apply waterproofing to surfaces unacceptable to manufacturer.
- B. Seal cracks and joints with sealant using methods recommended by sealant manufacturer.

3.03 INSTALLATION

- A. Apply waterproofing in accordance with manufacturer's instructions to specified minimum thickness.
- B. Apply extra thickness of waterproofing material at corners, intersections, and angles.
- C. Seal membrane and flashings to adjoining surfaces.

3.04 INSTALLATION - DRAINAGE PANEL AND PROTECTION BOARD

3.05 PROTECTION

- A. Do not permit traffic over unprotected or uncovered membrane.

END OF SECTION

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Addendum 01

SECTION 07 5400

THERMOPLASTIC MEMBRANE ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Adhered system with thermoplastic roofing membrane.
- B. Insulation, flat and tapered.
- C. Vapor retarder.
- D. Deck sheathing at canopies only
- E. Flashings.
- F. Roofing stack boots and roofing expansion joints.

1.02 RELATED REQUIREMENTS

- A. Section 05 3100 - Steel Decking:
- B. Section 05 3116 - Acoustical Steel Decking
- C. Section 06 1000 - Rough Carpentry: Wood nailers and curbs.
- D. Section 07 6200 - Sheet Metal Flashing and Trim: Counterflashings, reglets, and _____.
- E. Section 07 7100 - Roof Specialties: Prefabricated roofing expansion joint flashing.
- F. Section 08 6200 - Unit Skylights: Skylight frame, integral curb, and counterflashing.
- G. Section 22 1006 - Plumbing Piping Specialties: Roof drains.

1.03 REFERENCE STANDARDS

- A. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2013.
- B. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2014.
- C. ASTM D6878/D6878M - Standard Specification for Thermoplastic Polyolefin Based Sheet Roofing; 2011a.
- D. ASTM E1980 - Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces; 2011.
- E. FM DS 1-28 - Wind Design; Factory Mutual Research Corporation; 2007.
- F. NRCA ML104 - The NRCA Roofing and Waterproofing Manual; National Roofing Contractors Association; Fifth Edition, with interim updates.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene one week before starting work of this section.
 - 1. Review preparation and installation procedures and coordinating and scheduling required with related work.

1.05 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.
 - 1. LEED Submittal: Include testing documentation of solar reflectance index.
- C. Specimen Warranty: For approval.
- D. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and setting plan for tapered insulation.
- E. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

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- F. Manufacturer's Field Reports: Indicate procedures followed, ambient temperatures, humidity, wind velocity during application, and supplementary instructions given.
- G. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing the work of this section:
 - 1. Approved by membrane manufacturer.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.
- B. Store products in weather protected environment, clear of ground and moisture.
- C. Protect foam insulation from direct exposure to sunlight.

1.08 FIELD CONDITIONS

- A. Do not apply roofing membrane during unsuitable weather.
- B. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- C. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

1.09 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Material Warranty: Provide membrane manufacturer's warranty agreeing to replace material that shows manufacturing defects within 5 years after installation.
- C. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.
 - 1. Warranty Term: 20 years.
 - 2. For repair and replacement include costs of both material and labor in warranty.
 - 3. Exceptions NOT Permitted:
 - a. Damage due to roof traffic.
 - b. Damage due to wind of speed greater than 56 mph (90 km/h) but less than 90 mph (145 km/h).

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Thermoplastic Polyolefin Membrane Materials:
 - 1. Carlisle Roofing Systems, Inc; Sure-Weld TPO: www.carlisle-syntec.com.
 - 2. Firestone Building Products, LLC; _____: www.firestonebpco.com.
 - 3. GAF; EverGuard TPO: www.gaf.com.
 - 4. Substitutions: See Section 01 6000 - Product Requirements.

2.02 ROOFING

- A. Thermoplastic Membrane Roofing: One ply membrane, fully adhered, over insulation.
- B. Roofing Assembly Requirements:
 - 1. Solar Reflectance Index (SRI): 78, minimum, calculated in accordance with ASTM E1980.
 - a. Field applied coating may not be used to achieve specified SRI.
 - 2. Factory Mutual Classification: Class I and windstorm resistance of I-90, in accordance with FM DS 1-28.
 - 3. Insulation Thermal Value (R), minimum: 20 (____); provide insulation of thickness required.

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- C. Acceptable Insulation Types - Constant Thickness Application: Any type that meets requirements and is approved by membrane manufacturer for application.
- D. Acceptable Insulation Types - Tapered Application: Any type that meets requirements and is approved by membrane manufacturer for application.
- E. All components of the roof assembly (membrane, insulation, protection board, flashings, penetrations, and accessories, etc.) shall be provided by and covered under the warranty of the membrane roof manufacturer.

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

- A. Membrane:
 - 1. Material: Thermoplastic polyolefin (TPO) complying with ASTM D6878.
 - 2. Reinforcing: Internal fabric.
 - 3. Thickness: 0.060 inch (1.5 mm), minimum.
 - 4. Sheet Width: Factory fabricated into largest sheets possible.
 - 5. Solar Reflectance: 0.75, minimum, initial, and 0.65, minimum, 3-year, certified by Cool Roof Rating Council.
 - 6. Thermal Emissivity: 0.80, minimum, initial, and 0.79, minimum, 3-year, certified by Cool Roof Rating Council.
 - 7. Color: To be selected by Architect from manufacturer's standard color range.
- B. Seaming Materials: As recommended by membrane manufacturer.
- C. Membrane Fasteners: As recommended and approved by membrane manufacturer.
- D. Flexible Flashing Material: Same material as membrane.

2.04 DECK SHEATHING AT CANOPIES

- A. Deck Sheathing: Glass mat faced gypsum panels, ASTM C1177/C1177M, fire resistant type, 5/8 inch (16 mm) thick.
 - 1. Products:
 - a. Georgia-Pacific DensDeck: www.densdeck.com.
 - b. Substitutions: See Section 01 6000 - Product Requirements.

2.05 INSULATION

- A. Polyisocyanurate Board Insulation: Rigid cellular foam, complying with ASTM C1289, Type II, Class 1, cellulose felt or glass fiber mat both faces; Grade 3 and with the following characteristics:
 - 1. Compressive Strength: 25 psi (172 kPa)
 - 2. Board Size: 48 x 96 inch (1220 x 2440 mm).
 - 3. Thermal Resistance: R-value of 20.
 - 4. Board Edges: Square.

2.06 ACCESSORIES

- A. Prefabricated Roofing Expansion Joint Flashing: As specified in Section 07 7100.
- B. Stack Boots: Prefabricated flexible boot and collar for pipe stacks through membrane; same material as membrane.
- C. Insulation Joint Tape: Glass fiber reinforced type as recommended by insulation manufacturer, compatible with roofing materials; 6 inches (150 mm) wide; self adhering.
- D. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.
 - 1. Length as required for thickness of insulation material and penetration of deck substrate, .
- E. Membrane Adhesive: As recommended by membrane manufacturer.
- F. Insulation Adhesive: As recommended by insulation manufacturer.
- G. Roofing Nails: Galvanized, hot dipped type, size and configuration as required to suit application.

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- H. Strip Reglet Devices: Galvanized steel, maximum possible lengths per location, with attachment flanges.
- I. Sealants: As recommended by membrane manufacturer.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

- A. Perform work in accordance with NRCA Roofing and Waterproofing Manual and manufacturer's instructions.
- B. Do not apply roofing membrane during unsuitable weather.
- C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
- D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

3.02 EXAMINATION

- A. Verify that surfaces and site conditions are ready to receive work.
- B. Verify deck is supported and secure.
- C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- D. Verify deck surfaces are dry and free of snow or ice.
- E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

3.03 INSULATION - UNDER MEMBRANE

- A. Attachment of Insulation:
 - 1. Mechanically fasten first layer of insulation to deck in accordance with roofing manufacturer's instructions and Factory Mutual requirements.
 - 2. Embed second layer of insulation into full bed of adhesive in accordance with roofing and insulation manufacturers' instructions.
- B. Lay subsequent layers of insulation with joints staggered minimum 6 inch (150 mm) from joints of preceding layer.
- C. Place tapered insulation to the required slope pattern in accordance with manufacturer's instructions.
- D. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
- E. Tape joints of insulation in accordance with roofing and insulation manufacturers' instructions.
- F. At roof drains, use factory-tapered boards to slope down to roof drains over a distance of 18 inches (450 mm).
- G. Do not apply more insulation than can be covered with membrane in same day.

3.04 MEMBRANE APPLICATION

- A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
- B. Shingle joints on sloped substrate in direction of drainage.
- C. Fully Adhered Application: Apply adhesive to substrate at rate of ____ gal/square (____ L/sq m). Fully embed membrane in adhesive except in areas directly over or within 3 inches (75 mm) of expansion joints. Fully adhere one roll before proceeding to adjacent rolls.

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- D. Overlap edges and ends and seal seams by contact adhesive, minimum 3 inches (75 mm). Seal permanently waterproof. Apply uniform bead of sealant to joint edge.
- E. At intersections with vertical surfaces:
 - 1. Extend membrane over cant strips and up a minimum of 4 inches (100 mm) onto vertical surfaces.
 - 2. Fully adhere flexible flashing over membrane and up to nailing strips.
- F. Around roof penetrations, seal flanges and flashings with flexible flashing.
- G. Install roofing expansion joints where indicated. Make joints watertight.
 - 1. Install prefabricated joint components in accordance with manufacturer's instructions.
- H. Coordinate installation of roof drains and sumps and related flashings.

3.05 FIELD QUALITY CONTROL

- A. See Section 01 4000 - Quality Requirements, for general requirements for field quality control and inspection.
- B. Require site attendance of roofing and insulation material manufacturers daily during installation of the Work.

3.06 CLEANING

- A. Remove bituminous markings from finished surfaces.
- B. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.
- C. Repair or replace defaced or damaged finishes caused by work of this section.

3.07 PROTECTION

- A. Protect installed roofing and flashings from construction operations.
- B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION

Metropolitan Library
Atlanta-Fulton Public Library System
May 28, 2014

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07 5400
THERMOPLASTIC MEMBRANE ROOFING
Revised Pricing Documents

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Addendum 01

SECTION 09 3000
TILING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Tile for floor applications.
- B. Tile for wall applications.
- C. Coated glass mat backer board as tile substrate.
- D. Stone thresholds.
- E. Ceramic trim.

1.02 RELATED REQUIREMENTS

- A. Section 07 1400 - Fluid-Applied Waterproofing.
- B. Section 09 2116 - Gypsum Board Assemblies: Installation of tile backer board.

1.03 REFERENCE STANDARDS

- A. ANSI A108.1A - American National Standard Specifications for Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar; 2013.1.
- B. ANSI A108.1B - American National Standard Specifications for Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex-Portland Cement Mortar; 2013.1.
- C. ANSI A108.1C - Specifications for Contractors Option: Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar or Installation of Ceramic Tile on a Cured Portland Cement Mortar Bed with Dry-Set or Latex-Portland Cement Mortar; 2013.1.
- D. ANSI A108.4 - American National Standard Specifications for Installation of Ceramic Tile with Organic Adhesives or Water Cleanable Tile-Setting Epoxy Adhesive; 2013.1.
- E. ANSI A108.5 - American National Standard Specifications for Installation of Ceramic Tile with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar; 2013.1.
- F. ANSI A108.6 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy; 2013.1.
- G. ANSI A108.8 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant Furan Resin Mortar and Grout; 2013.1.
- H. ANSI A108.9 - American National Standard Specifications for Installation of Ceramic Tile with Modified Epoxy Emulsion Mortar/Grout; 2013.1.
- I. ANSI A108.10 - American National Standard Specifications for Installation of Grout in Tilework; 2013.1.
- J. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units; 2013.1.
- K. ANSI A108.12 - American National Standard Specifications for Installation of Ceramic Tile with EGP (Exterior Glue Plywood) Latex-Portland Cement Mortar; 2013.1.
- L. ANSI A108.13 - American National Standard Specifications for Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone; 2013.1.
- M. ANSI A118.7 - American National Standard Specifications for High Performance Cement Grouts for Tile Installation; 2013.1.
- N. ASTM C1178/C1178M - Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel; 2013.
- O. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation; 2013.1.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.
- C. Samples: Mount tile and apply grout on two plywood panels, minimum 18 x 18 inches (450 x 450 mm) in size illustrating pattern, color variations, and grout joint size variations.
- D. Maintenance Data: Include recommended cleaning methods, cleaning materials, stain removal methods, and polishes and waxes.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 6000 - Product Requirements, for additional provisions.
 - 2. Extra Tile: 1 percent of each size, color, and surface finish combination, but not less than 10 square feet of each type.
- F. LEED Submittal: Documentation of recycled content and location of manufacture.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing tile installation, with minimum of 5 years of documented experience.

1.07 FIELD CONDITIONS

- A. Maintain ambient and substrate temperature of 50 degrees F (10 degrees C) during installation of mortar materials.

PART 2 PRODUCTS

2.01 TILE

2.02 TRIM AND ACCESSORIES

- A. Ceramic Trim: Matching cove base and wainscot cap profile ceramic shapes in sizes indicated.
 - 1. Applications: Use in the following locations:
 - a. Open Edges: Bullnose.
 - b. Inside Corners: Jointed.
 - c. Floor to Wall Joints: Cove base.
 - d. Tile wall to Gypsum Wall Board: Trim indicated on Drawings
 - 2. Manufacturer: As scheduled
- B. Thresholds: Marble, white or gray, honed finish; 2 inches (50 mm) wide by full width of wall or frame opening; 1/2 inch (12 mm) thick; beveled one long edge with radiused corners on top side; without holes, cracks, or open seams.
 - 1. Applications: Provide at the following locations:
 - a. At doorways where tile terminates.

2.03 SETTING MATERIALS

2.04 GROUTS

- A. Manufacturers:
 - 1. ARDEX Engineered Cements: www.ardexamericas.com.
 - 2. ProSpec, an Oldcastle brand; ProColor Sanded Tile Grout: www.prospec.com.
 - 3. Bostik Inc; Product ____: www.bostik-us.com.
 - 4. LATICRETE International, Inc; LATICRETE PERMACOLOR Grout: www.laticrete.com.
 - 5. Mapei Corporation; www.mapei.com; Product ____.
 - 6. Substitutions: See Section 01 6000 - Product Requirements.
- B. Polymer Modified Grout: ANSI A118.7 polymer modified cement grout.

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Addendum 01

1. Applications: Use this type of grout where indicated and where no other type of grout is indicated.
2. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.
3. Color(s): As selected by Architect from manufacturer's full line.

2.05 THICK-BED MATERIALS

- A. Mortar Bed Materials: Portland cement, sand, latex additive, and water.
- B. Cleavage Membrane: 4 mil (0.1 mm) thick polyethylene film.
- C. Waterproofing Membrane Under Mortar Bed: As specified in Section 07 1400.

2.06 THIN-SET ACCESSORY MATERIALS

- A. Underlayment at Floors: Specifically designed for bonding to thin-set setting mortar; not primarily a waterproofing material and having the following characteristics:
 1. Uncoupling Function: Allow for separation between membrane and the mortar adhering tile to the membrane when subjected to excessive substrate movement.
 2. Type: Fluid-applied.
 3. Do Not Use: Gypsum or cementitious based self-leveling underlayment.
- B. Backer Board: Coated glass mat type complying with ASTM C1178/C1178M; inorganic fiberglass mat on both surfaces and integral acrylic coating vapor retarder.
- C. Mesh Tape: 2-inch (50 mm) wide self-adhesive fiberglass mesh tape.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile.
- B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive tile.
- C. Verify that concrete sub-floor surfaces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by tile manufacturer and setting materials manufacturer.
- D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

- A. Protect surrounding work from damage.
- B. Vacuum clean surfaces and damp clean.
- C. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.
- D. Install backer board in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of setting material to a feather edge.

3.03 INSTALLATION - GENERAL

- A. Install tile and thresholds and grout in accordance with applicable requirements of ANSI A108.1A thru A108.13, manufacturer's instructions, and TCNA (HB) recommendations.
- B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.
- C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly.
- D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout.
- E. Form internal angles square and external angles bullnosed.
- F. Install thresholds where indicated.

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Addendum 01

- G. Sound tile after setting. Replace hollow sounding units.
- H. Prior to grouting, allow installation to completely cure; minimum of 48 hours.
- I. Grout tile joints. Use standard grout unless otherwise indicated.
- J. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

3.04 INSTALLATION - FLOORS - THIN-SET METHODS

- A. Over interior concrete substrates, install in accordance with TCNA (HB) Method F125-Full, with standard grout, unless otherwise indicated.
 - 1. Use uncoupling membrane under all tile unless other underlayment is indicated.

3.05 INSTALLATION - FLOORS - MORTAR BED METHODS

- A. Over interior concrete substrates, install in accordance with TCNA (HB) Method F121, unless otherwise indicated.
 - 1. Where waterproofing membrane is indicated, with standard grout or no mention of grout type, install in accordance with TCNA (HB) Method F121.
- B. Cleavage Membrane: Lap edges and ends.
- C. Waterproofing Membrane: Install as recommended by manufacturer and as specified in the section in which the product is specified.
- D. Mortar Bed Thickness: 1-1/4 inch (31 mm), unless otherwise indicated.

3.06 INSTALLATION - WALL TILE

- A. Over coated glass mat backer board on studs, install in accordance with TCNA (HB) Method W245.
- B. Over gypsum wallboard on wood or metal studs install in accordance with TCNA (HB) Method W223, thin-set with organic adhesive, unless otherwise indicated.

3.07 CLEANING

- A. Clean tile and grout surfaces.

3.08 PROTECTION

- A. Do not permit traffic over finished floor surface for 2 days after installation.

3.09 SCHEDULE

- A. See Drawings

END OF SECTION

BID FORM

TRADE: _____

BIDDER INFORMATION:

(Company Name)

(Street Address)

(City) (State) (Zip)

(Contact Name)

(_____) _____
(Phone Number) (Email)

BASE BID:

The undersigned has examined the drawings, specifications, existing conditions, and acknowledges receipt of all attachments indicated in the Invitation to Bid. The undersigned also is fully informed as to the nature of the work and conditions relating to its performance. By submitting this proposal, the undersigned hereby proposes to execute the work called for herein relating to the **Metropolitan Library**. Work shall include furnishing all labor, services, materials, equipment, tools, taxes, permits and all other items necessary for the proper and complete execution of the work in accordance with the drawings, specifications, and other listed documents and all applicable OSHA, life safety, and building codes.

The base bid for the referenced scope of work is:

_____ Dollars \$(_____)

BOND :

Bond Rate: _____ % Bonding Company: _____

BASE BID BREAKDOWN: Winter Johnson is a strong supporter of MBE/WBE businesses. We strongly encourage you to use MBE/WBE participation when possible. (example: AABE, HABE, FBE, APABE).

<u>Bid Package #</u>	<u>Scope of Work</u>	<u>MWBE Type</u>	<u>MWBE Participation \$</u>	<u>Total Price</u>
_____	_____	_____	\$ _____	\$ _____
_____	_____	_____	\$ _____	\$ _____
_____	_____	_____	\$ _____	\$ _____
_____	_____	_____	\$ _____	\$ _____
Total Bid (Excluding Bond)				\$ _____

**Winter Johnson Group
Metropolitan Library
Bid Proposal**

I. **Unit Prices – Earthwork / Utilities:** The Contract Sum will be increased or decreased according to quantities of added or omitted Work based on unit prices accepted by Winter Johnson.

A. Inclusions: Unit prices shall cover and include all costs and charges including, without limitation, costs for material, labor, fabrication, delivery, unloading, handling, protection, storage, hoisting, scaffolds, tools, equipment, rentals, utilities, installation or application, lower tier subcontractors, supervision, taxes, employer’s contributions, insurance, overhead, and profit.

B. Exclusions: Unit prices exclude cost of Performance and Payment Bonds.

C. Duration: All unit prices shall be held good and unchanged for the duration of the contract unless specified or agreed upon.

<u>Description</u>	<u>Unit</u>	<u>Cost</u>
1. Mass Rock removed & hauled offsite.	CY	\$ _____
2. Trench Rock removed & hauled offsite.	CY	\$ _____
3. Unsuitable Soils removed & hauled offsite.	CY	\$ _____
4. Suitable Fill hauled onsite & installed.	CY	\$ _____

II. **Alternates:** Provide pricing for the following Alternate items or in the space provided indicate any voluntary alternates (these items are not included in the base bid). These alternates are found in Specification Section 012300 – Alternates.

No. 1 – Exposed Metal Roof Decking/Ceiling	ADD/DEDUCT (circle one)	\$ _____
No. 2 –	ADD/DEDUCT (circle one)	\$ _____
No. 3 –	ADD/DEDUCT (circle one)	\$ _____
No. 4 –	ADD/DEDUCT (circle one)	\$ _____

This proposal is valid for 60 days

Submitted by:

Subcontractor Name: _____

Signature: _____

Printed Name: _____

Title: _____

Date: _____

PLEASE ATTACH TO THIS BID FORM ALL PRICE QUOTES ASSOCIATED WITH YOUR BID ON COMPANY LETTERHEAD FOR REFERENCE.