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Exhibit "E"

Scope of Work Clarifications for Trade Bidders

Olive Street Parking Facility
Greenfield, MA

Bid Documents included in Package

1. DESMAN, Inc. Bid Documents: Olive Street Parking Facility, Greenfield, Massachusetts: Construction Documents – Bid Set: Drawings and Specifications dated September 6, 2017.
2. DOC Summary Instructions To Trade Bidders (Exhibit J) and Exhibits A, B, C, D, E, F, G, H, I, K, L, M, N, O, P, Q, R. and S.
3. Exhibit "E" - Scope of Work Clarifications for Trade Bidders

Scope of the Work Clarifications:

This scope clarification exhibit is to be used in conjunction with the Olive Street Parking Facility, Greenfield Massachusetts, Construction Documents – Bid Set: Drawings and Specifications dated September 6, 2017. It is not, in any way, intended to limit the scope of the work as defined by the contract drawings and specifications issued by DESMAN, Inc. dated August 23, 2017 and addenda. Therefore, the work is inclusive of **but not limited to** the following:

General Item Clarifications: Applies to all Trade Bidder Divisions

1. Police details will be furnished by the Construction Manager.
2. Responsible for adhering to the project issued Storm Water Pollution Prevention Plan.
3. The Trade subcontractors are responsible for coring of all holes in the precast structure and foundations required to complete their installations that are not being provided by the precast subcontractor as detailed on the contract drawings.
4. Staging. Planking and Scaffolding: All Trade subcontractors shall furnish, install and maintain in a safe and adequate condition, all staging, planking, scaffolding, man-lifts and platform lifts, stationary or moveable, and regardless of height, that is necessary for the proper execution of the Work of this Section.
5. Hoisting: All Trade subcontractors shall furnish, install and maintain in a safe and adequate condition all mechanical hoisting equipment, operating personnel and rigging that is necessary for the proper execution of the Work of this Section.

Masonry
Division 04200 – Unit Masonry - Clarifications

The following clarification items are to be included in the Masonry Trade Bid and are only provided as a guide. This list is not, in any way, intended to limit the scope of the work as defined by the contract drawings and specifications issued by DESMAN, Inc. dated September 6, 2017 and addenda. Therefore, the work is inclusive of **but not limited to** the following:

1. Interior CMU walls located on Level 1 including all masonry lintels, setting and building in door frames, grout, and masonry reinforcing.
2. Blocking in/Building in of Elevator door frames as shown in Details 1 and 2 on A502. Infill can be installed off operating elevator car.

Miscellaneous and Ornamental Iron
Division 05500 - Miscellaneous Metals – Clarifications

The following clarification items are to be included in the Miscellaneous Metals Trade Bid and are only provided as a guide. This list is not, in any way, intended to limit the scope of the work as defined by the contract drawings and specifications issued by DESMAN, Inc. dated September 6, 2017 and addenda. Therefore, the work is inclusive of **but not limited to** the following:

1. Furnish and install support angles for elevator door sills.
2. Furnish and install cants in elevator hoistway.
3. Furnish and install North Entry Canopy complete.
4. Furnish and install aluminum tube columns located on the exterior of the building (note that some are base bid and most are an alternate).
5. Furnish and install seismic clips at masonry walls.
6. Furnish and install concrete filled bollards with specified plastic sleeves. Include grouting base plate.
7. Furnish and install all pipe guards protecting MEP piping and conduit as detailed.
8. Furnish and install exterior railing at handicapped ramp. Hot dipped galvanized.
9. Furnish and install all stair railings and guard railings. Hot dipped galvanized.
10. Snow gate. Hot dipped galvanized. Items cast into precast will be provided by precast subcontractor.
11. Furnish elevator sump pit frame and furnish and install elevator sump pit grate.
12. Furnish and install exterior spandrel railings. Hot dipped galvanized and factory finished per specifications (note this is an Alternate).

Roofing and Flashing
Division 07000 – Roofing and Flashing – Clarifications
Division 07541 – Polyvinyl Chloride (PVC) Membrane Roofing – Clarifications
Division 07620 – Flashing and Sheet Metal – Clarifications
Division 07710 – Roof Specialties – Clarifications

The following clarification items are to be included in the Roofing and Flashing Trade Bid and are only provided as a guide. This list is not, in any way, intended to limit the scope of the work as defined by the contract drawings and specifications issued by DESMAN, Inc. dated September 6, 2017 and addenda. Therefore, the work is inclusive of **but not limited to** the following:

1. Furnish all roofing and flashing for the South Stair roof, North Stair roof and Elevator roof.
2. Cutting of reglets into precast required to install counter flashing, Detail 9 on A207 typical, is the work of the Roofing Trade subcontractor.

Joint Sealants
Division 07920 – Joint Sealants – Clarifications
Division 07950 – Expansion Control – Clarifications

The following clarification items are to be included in the Joint Sealants Trade Bid and are only provided as a guide. This list is not, in any way, intended to limit the scope of the work as defined by the contract drawings and specifications issued by DESMAN, Inc. dated September 6, 2017 and addenda. Therefore, the work is inclusive of **but not limited to** the following:

1. This trade subcontract does not include exterior sidewalk sealants.
2. Caulking subcontractor to inspect and accept work prior to installation of materials.
3. Caulking subcontractor to grind and remove laitance from all joints prior to caulking.
4. Caulking subcontractor to provide blow down prior to sealing.

5. Caulking subcontractor will grind and prime all joints prior to caulking.
6. Bond breaker tape or backer rod must be used at bottom of joint to prevent bond.
7. Caulk double tee to double tee flange joints. Joints will vary +/- ¾".
8. Caulk double tee perimeter joints to spandrels, column, beams and walls. Joints will vary +/- 1".
9. Caulk interior spandrel to column joints including top and bottom of spandrel. Joints will vary +/- ½".
10. Grouted precast to cast in place joints will range from 1"-3" as identified on the drawings and can vary +/- ½".
11. Grouted precast joints will range from 1"-3" as identified on the drawings and can vary +/- ½".
12. Caulk around all embedded floor/roof drain frames located in cast in place concrete or precast floors.
13. Caulk stair risers and stair landings.
14. Architectural caulk all exterior precast to precast joints.
15. Caulk lift pockets in all precast products including spandrels, beams and tees.
16. Caulk all weld pockets.
17. Caulk all vee joints in cast in place topping concrete on precast.
18. Caulk cast in place concrete topping to precast.
19. Elevator Tower and adjacent MEP shaft requires 2 hour fire rated sealant system per documents.
20. A portion of the West wall of the garage adjacent to the Dance Studio is required to be 2 hour rated. See notes on Drawing A001. Provide a 2 hour rated sealant system per documents.
21. Masonry to precast joints will range from 1"-2".
22. Caulk all hollow metal door frames.
23. Caulk all stainless steel elevator entrance frames.
24. Caulk elevator louver and elevator machine room vent.
25. Caulk all storefront/curtainwall abutting dissimilar materials.
26. Expansion Joint including all required preparation of the precast and cast-in-place concrete required for proper installation.
27. Caulking subcontractor to survey and repair any leaks during warranty period.

Painting
Division 09900 – Painting – Clarifications

The following clarification items are to be included in the Joint Sealants Trade Bid and are only provided as a guide. This list is not, in any way, intended to limit the scope of the work as defined by the contract drawings and specifications issued by DESMAN, Inc. dated September 6, 2017 and addenda. Therefore, the work is inclusive of **but not limited to** the following:

No specific clarifications issued**.**

Plumbing
Division 15316 – Sanitary Waste and Vent Piping – Clarifications
Division 15319 – Sanitary Waste Piping and Specialties – Clarifications
Division 15323 – Sanitary Waste Interceptors – Clarifications
Division 15413 – Facility Storm Drainage Piping – Clarifications
Division 15529 – Hangers and Supports for Plumbing Piping – Clarifications
Division 15719 – Piping Insulation – Clarifications

The following clarification items are to be included in the Joint Sealants Trade Bid and are only provided as a guide. This list is not, in any way, intended to limit the scope of the work as defined by the contract drawings and specifications issued by DESMAN, Inc. dated September 6, 2017 and addenda. Therefore, the work is inclusive of **but not limited to** the following:

1. Floor drain bodies that are required to be cast into the precast double tees are to be shipped to the precast subcontractor's factory located in Shaftsbury, Vermont.

HVAC
Division 15126 – Split System Air Conditioners – Clarifications
Division 15239 – Propeller Unit Heaters – Clarifications
Division 15126 – Refrigerant Piping – Clarifications

The following clarification items are to be included in the Joint Sealants Trade Bid and are only provided as a guide. This list is not, in any way, intended to limit the scope of the work as defined by the contract drawings and specifications issued by DESMAN, Inc. dated September 6, 2017 and addenda. Therefore, the work is inclusive of **but not limited to** the following:

No specific clarifications issued**.**

Electrical
Division 16050 – Basic Electrical Materials and Methods – Clarifications
Division 16060 – Grounding and Bonding – Clarifications
Division 16073 – Hangers and Supports for Electrical Systems – Clarifications

The following clarification items are to be included in the Joint Sealants Trade Bid and are only provided as a guide. This list is not, in any way, intended to limit the scope of the work as defined by the contract drawings and specifications issued by DESMAN, Inc. dated September 6, 2017 and addenda. Therefore, the work is inclusive of **but not limited to** the following:

1. Temporary Electricity and Lighting: The Electrical Trade Subcontractor shall make arrangements for and provide equipment, poles, meter, wiring, switches, outlets, etc. required as necessary to provide for all lighting and power requirements for construction purposes. The Electrical Trade Subcontractor shall be responsible for all negotiations and coordination with the electrical utility company, and shall pay for all electrical company charges associated with the temporary service. Provide and maintain adequate lighting, in accordance with all State and Federal laws, with local switching for safe access and egress, security, and for providing adequate illumination for construction operations. Provide a 200 amp temporary service. Remove all temporary equipment when no longer needed.