STUDIO JAED
ARCHITECTS ENGINEERS FACILITIES SOLUTIONS
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Addendum #4

Date: October 28, 2025

Project: Legislative Hall Parking Garage
OMB/DFM Contract No. MJ1002000071

The work herein shall be considered part of the bid documents for the referenced project and carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Acknowledge receipt of addendum on the bid form as indicated.

General:

1. Bids will now be due on **Thursday, November 20, 2025 at 1:00pm.** The bid opening will be at **2:00pm** on the same date, **(Thursday, November 20, 2025).** Nothing else changes with regards to the bid submission, just the date.
2. Last days for RFIs will now be on **Thursday, November 13, 2025 at 1:00pm.**
3. Response to Addendum #3, RFI #3: *Bidders are expected to submit bids that are firm, fixed and inclusive of all existing and potential tariffs at the time of bid. There shall be no change orders due to tariffs, or the uncertainty caused by them, that are in effect when the bid is submitted. If, after a project is awarded and PO issued a new tariff is enacted that impacts the cost of materials or equipment required for the work, a Change Order may be submitted and evaluated by the Owner, with proper justification. Proper justification will be in the form of documentary evidence proving a price increase specifically due to a new tariff, which post-dates: (1) the date the project is awarded; and (2) the date of the purchase order issued by the State.*
4. For thin brick and full-size brick, if the textures for both thin and full-size brick are similar, that is acceptable. All other properties should match.
5. Horizontal precast concrete panel layout is acceptable in lieu of the vertical precast concrete panel layout shown on the drawings. Final layout shall be reviewed and coordinated during the shop drawing process.

RFIs:

1. For the sub listing “Specialty Foundation” on the bid form; is the General Contractor to list the contractor performing the work or the Geotech Engineer?
    a. **Response: The General Contractor should list the Specialty Foundations Subcontractor. The Instructions to Bidders (Section 00 21 13, Article 4.3) require the bidder to list "the full name and address... of the sub-contractor that the Bidder will be using to perform the work”.**
2. Section 003100; page 134 of specifications, Part 8; 8.02 Basis of Payment; are the pay units required for the bid?

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a. **Response: Not applicable.**

3. Section 003100; page 126 of specifications, Part 1; 1.03 Approved Installers; does this have to be requested prior to bid? If so what information is required for approval?

    a. **Response: Not applicable.**

4. Regarding spec section 66000. Cellular PVC Fabrications – it references the architect is to approve samples for grain pattern, texture, product selection, and color. Additionally, there is no exterior paint specification for this spec. Is this work scope Factory finished with no field finishing required?

    a. **Response: Cellular PVC Fabrications shall be field painted. See attached revised Specification Section 09 91 00.**

5. Regarding Spec section 68200: Glass Fiber Reinforced Plastic Architectural Elements. The Spec references Factory custom gel coat color for this trade work scope. Additionally there is no exterior paint specification for this spec. Clarify that there is to be no field finish painting for this trade work

    a. **Response: That is correct. The Basis-of-Design product would not require field painting per the Manufacturer's recommended finishing process.**

6. Regarding the metal infill screen at the exterior wall window areas. Is there any field painting required?

    a. **Response: Metal infill screen shall be factory finished black.**

7. Is the thin brick integral to the precast to be hand pointed?

    a. **Response: No.**

8. Please clarify the scope of Traffic Bearing Waterproofing Membrane. Is it the intent to provide the traffic bearing waterproofing membrane on all parking decks and slabs on grade or only at the tunnel structure as indicated on S-201.

    a. **Response: Areas to receive traffic bearing waterproofing membrane (elastomeric deck coating) are indicated on Drawing S201 and S202.**

9. Please define scope for the Clear Penetrating Sealers specified in section 071911.

    a. **Response: See Detail 9/S003 plus Note 10 on Drawing S201, Note 8 on Drawing S202 and Note 8 on Drawing S203.**

10. Please confirm the Elastomeric Coating referenced in Sheet S201 is the material specified under section 071800 Traffic Bearing Waterproofing Membrane.

    a. **Response: Confirmed. See response to RFI #8.**

11. Please clarify who is responsible to engage the testing agency specified in section 034100 3.4, General Contractor or Owner?

    a. **Response: Owner – Owner's Independent Testing Agency.**

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12. Is a Public Works Certification needed for the precast construction on this project?
    a. **Response: Yes. Shop drawing submittals are required for all precast materials.**
13. Will the poured in place concrete wash slabs require any special concrete admixture (i.e. corrosion inhibitor admixtures) and epoxy-coated rebar throughout all concrete topping washes?
    a. **Response: See Specifications Section 03 30 00 Paragraph 2.9 and Concrete Note 6 on Drawing S001.**
14. The finish legend on A-121 calls for linoleum 2' x 2' tile, however specification section 09 65 00 "Resilient Flooring" calls for linoleum sheet flooring. Please confirm correct flooring finish.
    a. **Response: See attached revised Specification Section 09 65 00 Resilient Flooring. LINO-1 has been revised to static control, vinyl floor tile.**
15. In reference to Section 31 23 21 "Short Aggregate Pier Foundation" 1.3.A. Please provide a list of approved installers from the Owner's Geotechnical Engineer.
    a. **Response: The referenced paragraph clearly states the qualifications of subcontractors that will be found acceptable.**
16. In reference to Section 31 23 21 "Short Aggregate Pier Foundation" 1.4.B. Please confirm general conformance with one (1) ASTM D1196 "Quick Load Test" is an acceptable modulus test for the performance of short aggregate piers.
    a. **Response: For testing criteria, see paragraph 3.6 of Specifications Section 31 23 21. ASTM D1196 is not acceptable.**
17. In reference to Section 31 23 21 "Short Aggregate Pier Foundation" 2.3.B.1. Please confirm 4,000psf bearing pressure is the service limit loads the short aggregate pier design needs to account for.
    a. **Response: Confirmed. See also notes on Drawing S001.**
18. In reference to Section 31 23 21 "Short Aggregate Pier Foundation" 2.3.B.1. Please confirm 6,000psf bearing capacity is the ultimate limit state required for design.
    a. **Response: The determination of the ultimate bearing capacity is deferred to the expertise of the Specialty Contractor's Professional Engineer.**
19. In reference to Section 31 23 21 "Short Aggregate Pier Foundation" 2.3.B.1. Reference sheet S001 section Short Aggregate Pier Foundation Notes, note 6. Please confirm specialty contractor can design minimum design lengths and diameters beneath bottom of footings.
    a. **Response: Confirmed. Note 6 includes the phrase "unless otherwise indicated by design of specialty contractor".**

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20. In reference to Section 31 23 21 "Short Aggregate Pier Foundation" 3.2.D As the EOR for the short aggregate pier design please confirm the specialty contractor can determine appropriate equipment and installation requirements to perform the work
    a. **Response: Confirmed.**
21. In reference to Section 31 23 21 "Short Aggregate Pier Foundation" 3.5.A Please confirm a full-time field engineer can perform the duties as a Control Technician.
    a. **Response: Confirmed.**
22. In reference to Section 31 23 21 "Short Aggregate Pier Foundation" 3.7.A. Please remove the Bottom Stabilization Testing (BST) / Crowd Stabilization Testing (CST) requirement for modulus testing. Please confirm ASTM D1196 quick load test is an acceptable testing method.
    a. **Response: Testing program must include verification of bottom stabilization. ASTM D1196 is not acceptable.**
23. Please provide unfactored column loads acting at each spread footing location, provide unfactored line loads acting at each strip footing location.
    a. **Response: This information will not be provided. The Specialty Engineer working for the Specialty Foundations Subcontractor can calculate these loads if needed based on the footing and bearing pressure information provided on the drawings.**
24. Please provide hatching of areas on the foundation plan requiring short aggregate piers. See attached sketch for current understanding.
    a. **Response: See Note 7 on Drawing S101. The foundation in the northwest corner of the project is a mat which must be founded on improved soils.**
25. The Pre-bid meeting minutes 11.a.i issued in Addendum 1 note a location 'east' of the site for Fireworks with a vehicular access path. Please show this location on C103; and the location of the access path.
    a. **Response: See attached revised C103.**
26. The Pre-bid meeting minutes 3.a.iii issued in Addendum 1 note groundwater level readings by Verdantas will be issued via addendum. These were not in addendum #2. Please provide.
    a. **Response: Provided in Addendum #3.**
27. Specs state the transient parkers will be issued a token upon entry and will surrender the token upon exit, but the equipment list references an Amano Ticket Spitter - Do you know if they are just expecting transient/visitors to receive a token at entry and then insert it to exit or are they looking for visitors to make payment via credit card if they use the facility? (System Description says "If a vehicle does not enter the parking area after obtaining a ticket")
    a. **Response: This facility will not collect revenue. All references to "tickets" can be ignored.**

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28. The approved vendors are all PARCS - Parking Access and Revenue Control Providers (we offer IP Parking which is an equal solution). None of these solutions offer a "token" solution, but a ticketed solution where customers can either pay at exit with credit card, Central Pay on Foot with Cash and/or Credit or validation.
    a. **Response: An acceptable solution will provide the described token configurations using the described parking systems platforms.**
29. For monthly parkers they reference encoded cards - do you know the specification of those cards or is a standard Proximity Card sufficient for the project - it references inserting a card which is not typical (mag-stripe or outdated solution? Sometimes they have specific secure or encrypted cards for a facility like this. Also, will the Parking Equipment control the access, or will they do so with the building access software?
    a. **Response: For bidding purposes, assume the standard proximity card will be sufficient, and that these cards will not be used to access other buildings. The Parking Control System will control vehicle access.**
30. References for overhead doors for the "reserved area" - can you confirm there are only overhead doors here and no barrier gates? If so, will the overhead door contractor be providing all safety devices per UL325 for the overhead door as well as the safety loops?
    a. **Response: Confirmed that no gates will be provided at the Level 1 reserved parking area. It is the General Contractor's responsibility to coordinate among subcontractors to ensure the overhead doors and the parking access control equipment work harmoniously.**
31. For the transient lanes, I assume we will potentially be supplying barrier gates for these 2 lanes (not overhead doors). Do you know the clearance for a straight or folding arm. For straight, we need at least 13' clearance.
    a. **Response: Clearances can be computed using the spot elevations provided on Drawings S201 and S202 less structural depths suggested on Drawing S501.**
32. Details 4 and 5 on drawing S301 both refer to barrier cables. Detail 4 refers to 7 wire cables pulled through the concrete columns. Detail 5 refers to 6 wire cables pulled through steel angles bolted to columns. Please advise where Detail 4 applies or is it only Detail 5 which applies?
    a. **Response: Provide cables at the positions indicated in Detail 5. The "7-wire" note in Detail 4 is a reference to the number of wire strands in a single cable (see Specifications Section 05 52 16 Paragraph 2.2.B).**
33. Please confirm exposed sprinkler piping and fittings are to be galvanized material and painted or just galvanized?
    a. **Response: The project specifications indicate that all dry-pipe sprinkler system and standpipe system piping shall be galvanized and painted. Refer to specification Section 09 91 00 for painting.**

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34. Please clarify if the 1.5% set aside for close out documents [ref section 007313.9.2.2] is part of the overall 5% retainage or in addition to the 5% retainage held from each progress payment?
    a. **Response: The 1.5% for closeout documents shall be a required line item on the Contractor's Schedule of Values and is separate from the 5% retainage.**
35. Is it the intent that only soils below footings are to be improved with rammed aggregate piers? What about soils below slabs on grade?
    a. **Response: See response to RFI #24.**
36. Since it is not possible at the time of bid to determine the scope of ground water dewatering, we respectfully request a lump sum allowance be added to section 012100 Allowances, for all dewatering and dewatering permits required for the project that can't be handled by portable trash pumps with a discharge capacity of 2" and under?
    a. **Response: The geotechnical evaluations both include groundwater information, and approximately 6 months of recent periodic monitoring was summarized in the memo. The bidders should assume that some fluctuation of groundwater levels will occur, but we think this is a sufficient of amount of information at this time for the contractors to plan and budget for dewatering.**
37. Toilet accessories – please confirm the wall mounted item in Jan 106B should be tagged as item #11.
    a. **Response: Yes, confirmed wall mounted item is toilet accessory #11.**
38. Self-leveler is called out to be used at the Slab on grade concrete floor within rooms Riser 102 & Elec 103. Finish schedule calls out these locations to receive concrete sealer as a finished floor. Please confirm the self-lever can be omitted.
    a. **Response: There are three rooms/areas on the project (office area, riser/elec, and IDF 2) that are concrete slab on grade and shall be placed leveled to the elevations indicated on Drawing S201. Self-leveler can be omitted.**
39. Floor tile is called out per A-121 as mosaic ceramic floor tile, color & pattern TBD. Spec 093000 Tile calls for the Toilet Room floor tile to be provided as 2x2 quarry tile. Please confirm what should be provided.
    a. **Response: Mosaic ceramic tile is correct. See attached revised Specification Section 09 30 00.**
40. Wall tile is called out per A-121 as a 4x4 ceramic wall tile – color TBD. Spec 093000 Tile calls for the Toilet Room wall tile to be provided as 4x glazed wall tile. Please confirm what should be provided.
    a. **Response: Glazed wall tile is correct.**

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41. Resilient flooring LINO-1 is called out per A-121 as a 2x2 tile – color TBD, Spec 096500 Resilient Flooring is calling LINO-1 out as a Linoleum Sheet flooring. Please confirm what should be provided.
    a. **Response: Resilient flooring has been revised to static control vinyl tile. See attached revised Specification Section 09 65 00.**
42. Should Bollards be provided with Alternate #2 to protect the solar panel inverter to be placed adjacent to IDF 2 – 105?
    a. **Response: Bollards are not required in this area.**
43. Please confirm finishes of Tunnel Lobby Stairs.
    a. **Response: The stairs to the Tunnel Lobby shall remain unfinished.**
44. Spec 07 19 11 Clear Penetrating Sealer – notes to be provided as a 6-inch-high application on all vertical concrete surfaces adjacent to horizontal deck surfaces. This sealer is called out as the base in the upper-level Elevator lobbies. Please confirm this sealer should be applied up the CMU walls at the face of the elevator shafts.
    a. **Response: We will paint the CMU walls and adjacent precast walls. Omit the 6" high application of clear penetrating sealer on all vertical concrete surfaces that are painted.**
45. Elevations on A-124 and details on A-121 show a ceiling within rooms IDF 2 (105) and Janitor (106B). E101 also shows ACT ceilings with recessed fixtures in these rooms. Finish schedule on A121 calls for exposed ceilings at these locations. Please confirm if an ACT-1 ceiling should be provided at these locations.
    a. **Response: Confirmed to provide ACT-1 in IDF 2 (105) and Janitor (106B).**
46. Elevator Control room 302 is shown to receive a metal stud and gypsum board ceiling per details on A403. Finish schedule on A121 calls for an exposed ceilings at these locations. Please confirm if a GWB ceiling is to be provided.
    a. **Response: Confirmed to provide GWB ceiling in Elevator Control Room (302).**
47. Light fixture type H – at the underside of the metal soffits above the 3rd floor garage – fixture is called out to be recessed. Please confirm the recessed is correct as this ceiling is ¾" FRT plywood with metal soffit panel attached to bottom of the metal roof trusses.
    a. **Response: Provide recessed light fixtures.**
48. For resilient base, please confirm that job formed exterior corners are acceptable. Spec 096500 calls for remolded units and external corners.
    a. **Response: Job formed exterior corners would be acceptable.**
49. Please confirm painting products to be used at exterior CMU locations. Spec 099100 calls out exterior painting materials but specifically excludes this system at Concrete masonry units. This applies to the interior side of the generator enclosure.

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a. **Response: See attached revised Specification Section 09 91 00.**

50. Please confirm if CMU wall type D1 at the elevator lobbies are to be painted. Other instances of interior CMU in the stairs are called out to be painted.

    a. **Response: Yes, CMU wall type D1 at elevator lobbies are to be painted.**

51. Please specify a painting product to be used for painting the precast stair and elevator walls facing the public parking.

    a. **Response: See attached revised Specification Section 09 91 00.**

52. Should the CMU walls of the Office 106 suite facing public parking be painted?

    a. **Response: Yes.**

53. Please confirm where windowsill detail S6 per A-600 is to be provided.

    a. **Response: The window sill detail is located in Frame Type B, at the windows adjacent to the double doors.**

54. Please confirm if HSS steel members associated with the security screening and OH doors are to be field painted.

    a. **Response: HSS members associated with the security screening shall be factory painted. HSS members associated with the overhead door shall be field painted.**

55. What is the height of the 2x2 signage posts that are to be provided for owner signage noted at 101 Legislator Parking? Detail 3/PK202calls for (13) additional posts to be provided in addition to those shown on plans. Please confirm this is the same (13) posts referenced on A-101 and that a total of (13) posts are to be provided.

    a. **Response: Yes, these are the same posts. For sign mounting height, and therefore post length, see Detail 3/PK202.**

56. Are a building mounted address numbers to be provided? If so, please indicated location and signage type to be provided.

    a. **Response: See revised A-202 and spec 10 14 19 for updated building signage. "LEGISLATIVE HALL PARKING GARAGE" and "152" shall fall under Building Identification signage as indicated in the specs and be 6" high.**

57. Spec 101419 calls for dimensional letter signage to be provided as 16" tall. Please confirm this is the correct size for the "Public Entrance" signage located next to Lobby door 100.

    a. **Response: See revised A-202 and spec 10 14 19 for updated building signage. See RFI #56 above for Building Identification signage. Metal Letters indicated in the specs shall be 12" high.**

58. Specification 31 41 16 Metal Sheet Piles – where is this required?

    a. **Response: Sheet piles are required at the stormwater management facility; see sheet SSMP509.**

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59. Please provide the individual, unfactored, live & dead column & wall loads for the ground improvement design/build subcontractors to accurately calculate both total and differential settlements.
    a. **Response: See Response to RFI # 23.**
60. Reference Door Schedule A-600 Remarks - "Card Reader by Owner's Vendor". Please clarify whether these are furnished and installed by Owner's Vendor, or just furnished only.
    a. **Response: Card readers are furnished and installed by Owner's vendor. Contractor shall provide electrical boxes and conduit for card readers – see sheet E-000.**
61. Reference Door Schedule A-600 Remarks - Door 302 is scheduled as 6' x 7'. Drawing A-103 shows the door as a single door. Please clarify.
    a. **Response: Door schedule is not correct. Door shall be single door 3'-0" x 7'-0"**
62. Foundation Note 11, on sheet # S001, states "The contractor shall locate construction joints in the continuous strip footing such that the maximum length of the concrete placement does not exceed 60 feet." Typically, control/construction joints are required for cast-in-place walls and only occur at continuous strip footings where the footing pour ends for the day. Please confirm that joints are indeed needed at every 60 feet at the continuous strip footings.
    a. **Response: Confirmed. The construction activity can be sequenced accordingly. Note that Note 11 calls for the proposed sequence to be submitted to the Engineer for review.**
63. A majority of the cast-in-place footings are shown to be installed in wet conditions. Shall we assume that the cast-in-place footings need a layer of stone beneath the bottom of footing elevation?
    a. **Response: Most footings will be placed on improved soils. The provision of concrete mud mats or additional stone subbase to facilitate construction will be acceptable provided it is found acceptable to the geotechnical engineer. It should be noted that the geotechnical report discusses dewatering and stable excavation bases.**
64. Will there be additional precast drawings issued for bidding purposes via an addendum?
    a. **Response: No additional precast drawings will be issued.**
65. The design calls for short aggregate piers. Will a preliminary design be provided for bidding purposes?
    a. **Response: See Specifications Section 31 23 21 for the project's full scope of work.**
66. Spec 28 31 00 – I see that they've approved Simplex, Honeywell/Fire Lite, and Honeywell Silent Knight. Is Honeywell/Notifier an acceptable system to install.

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a. **Response: Yes.**

67. Please provide a count for the precast embeds that are required to be set by the concrete contractor in cast-in-place footings and cast-in-place walls.

    a. **Response: This number will be determined by the precast concrete manufacturer.**

68. The tunnel area will require a cofferdam for shoring. The design will have to take into consideration the adjacent loads from the short aggregate pier operation, equipment, and installation. Will this be considered?

    a. **Response: All adjacent loads shall be considered when designing the coffer dam including addressing the issues with the water table. All designs of all temporary works are delegated to the construction team.**

69. Are all site materials to be excavated figured to be clean? Can we be provided with a soil analysis showing that all excess cut material is clean and is able to be hauled offsite. Please clarify this.

    a. **Response: Refer to the Groundwater Discharge RFI Memo in Addendum #3, including the possibility of unforeseen conditions.**

70. Is all excavated material from site earthwork and building foundation excavation suitable for backfill re-use?

    a. **Response: During our subsurface investigation we did not encounter any material that would be unsuitable for backfill except the asphalt covering the existing parking area.**

71. There will be significant amount of excess cuts from site grading/foundation excavation spoils. If we are to stockpile on site, please provide more efficient stockpile areas to accommodate.

    a. **Response: All areas that have been permitted inside the LOD may be used for staging/stockpiling locations if all conditions of the DNREC standard details are met. Century requests that the contractor provide the locations they propose and Century will provide the revisions and submit to DNREC for approval.**

72. Please provide logistics plan, if any, to show sequencing of what the plan is for getting the crane into the site and what areas of the building will be started first.

    a. **Response: Means and methods by Contractor. We defer construction sequencing and staging to the expertise of the construction professionals. The construction sequencing shall be coordinate with the Owner and governing agencies.**

73. Civil drawing C105 calls out curb at the proposed entrance road labelled “C/4” with a note 6 next to it. This note calls for detail 9/106 to be referenced. Per detail 9/106, please confirm that this curb is to be curb retaining wall. This same detail also shows concrete paving up to the curb retaining wall; however, the site plan calls out asphalt to go up to the curb retaining wall. Please clarify. The concrete curb wall will be poured separately and not as one continuous pour tied into the roadway as shown in the detail.

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a. **Response: Yes, this is a curb retaining wall; Detail will be revised for next addendum to reflect asphalt not curb.**

74. To what elevation(s) is the sitework contractor to grade and leave the parking garage floor slab for turnover to the concrete contractor? Please clarify.

    a. **Response: Coordination between subcontractors is the responsibility of the General Contractor.**

Substitution Requests:

1. Specification Section 06 82 00 Glass Fiber Reinforced Plastic Architectural Elements, Article 2.01, Paragraph A: Add the following subparagraph to list of Manufacturers:
   5. Edon

2. Light fixtures as noted are approved equals. See attached lighting package. Light fixture Types A1, A1-EM, and A2 (Kenall / SPG-18-PM-XX-30K8-DCC-DV) or (Beacon / SRT2) do not meet the required lumen output to match the basis of design fixtures. It shall be acceptable to use the submitted fixture type (Kenall / SPG-18-PM-XX-30K8-DCC-DV) or (Beacon / SRT2) if additional fixtures are provided to match the footcandle levels achieved by the basis of design lighting layout. A photometric calculation report shall be submitted to the architect/engineer for review and approval. The photometric calculation report shall be submitted during the submittal process during construction administration. The photometric calculation shall achieve the following:
   a. The calculation areas shall include the 65’ x 50’ area at the vehicle entrance to legislator parking and the 65’ x 40’ area at the vehicle entrance to public parking.
   b. The calculation areas shall achieve a 58fc average and a max/min of 1.5.

   The general contractor’s bid price shall include all labor, material, and other costs associated with additional fixtures required to meet specified foot candles. This is applicable for all light fixture approval equals.

Drawing Revisions:

1. C-103
   a. Added location of fireworks launch and access path.
2. A-202
   a. Revised building identification signage on west elevation.
3. E-000

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a. For the type J and J-EM light fixtures in the light fixture schedule, changed, “daylight sensor,” to, “photocell,” and changed, “dims upon daylight,” to, “on/off with daylight.”

Specification Revisions:

1. Bid Form has been updated with the new bid opening date.
2. 03 30 00 – Cast-in-place Concrete, Article 2.5, Paragraph A: Replace 6 mils with 15 mils.
3. 09 30 00 Tiling: Replace the Specification Section in its entirety with the attached.
4. 09 65 00 Resilient Flooring: Replace the Specification Section in its entirety with the attached.
5. 09 91 00 Painting: Replace the Specification Section in its entirety with the attached.
6. 10 14 19 – Dimensional Letter Signage: Replace the Specification Section in its entirety with the attached.
7. 10 22 13 Wire Mesh Partitions, Article 2.03, Paragraph A: Add the following subparagraph 2:

   2. Color: RAL 9005 (Black).

8. 10 22 13 Wire Mesh Partitions, Article 2.02, Paragraph A, subparagraph 1.: Add the following sentence c.:

   c. Finish: Powder-coated finish to be selected from Manufacturer’s standard range.

Attachments:

1. Reference Drawing for RFI #24.
2. Light fixture approved equal.
3. Drawings indicated in the drawing revisions section above.
4. Specifications indicated in the specification revisions section above.

END

Diversified

Transmittal

Diversified
5466 Fairmont Drive
Wilmington DE 19804
Phone: (302) 286-6370
From: Joe Burkart

Project **STATE OF DELAWARE OMB/DIVISION OF FACILITES MANAGEMENT - LEGISLATIVE HALL PARKING GARAGE**
Quote# DEL25-245119
Location DOVER DE
Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- ☐ Drawings
- ☐ Prints
- ☐ Plans
- ☐ Specifications
- ☐ Information
- ☐ Submittals

Other:

THESE ARE TRANSMITTED FOR:

- ☒ Prior Approval
- ☐ Approval
- ☐ Approval as Submitted
- ☐ Approval as Noted
- ☐ Resubmittal for Approval
- ☐ Corrections
- ☐ Your Use
- ☐ Review and Comment
- ☐ Record

Bids due on:
Other:

Type	MFG	Part
A	Kenall	SPG-18-PM-MW-XX-30K8-DCC-DV
A-EM	Kenall	SPG-18-PM-MW-XX-30K8-DCC-DV
A1	Kenall	SPG-18-PM-MW-XX-30K8-DCC-DV
A1-EM	Kenall	SPG-18-PM-MW-XX-30K8-DCC-DV
A2	Kenall	SPG-18-PM-MW-XX-30K8-DCC-DV

THE FOLLOWING FIXTURE TYPES ARE ACCEPTABLE AS NOTED:
- A
PROVIDE WITH INTEGRAL MOTION AND DAYLIGHT SENSOR - DIM UPON VACANCY / DAYLIGHT. PROVIDE WITH SWIVEL CANOPY.
- A-EM
PROVIDE WITH INTEGRAL MOTION AND DAYLIGHT SENSOR - DIM UPON VACANCY / DAYLIGHT. PROVIDE WITH SWIVEL CANOPY. PROVIDE WITH INTEGRAL EMERGENCY LIGHTING CONTROL UNIT.
- A1, A2
PROVIDE WITH INTEGRAL MOTION AND DAYLIGHT SENSOR - DIM UPON VACANCY / DAYLIGHT. PROVIDE WITH SWIVEL CANOPY. PROVIDE ADDITIONAL FIXTURES AS REQUIRED TO MATCH THE FOOTCANDLE LEVELS ACHIEVED BY THE BASIS OF DESIGN LIGHTING LAYOUT.
- A1-EM
PROVIDE WITH INTEGRAL MOTION AND DAYLIGHT SENSOR - DIM UPON VACANCY / DAYLIGHT. PROVIDE WITH SWIVEL CANOPY. PROVIDE ADDITIONAL FIXTURES AS REQUIRED TO MATCH THE FOOTCANDLE LEVELS ACHIEVED BY THE BASIS OF DESIGN LIGHTING LAYOUT.

ALL FIXTURES SHALL BE PROVIDED WITH LUMEN OUTPUT (UNLESS NOTED OTHERWISE), COLOR TEMPERATURE, ACCESSORIES, ETC AS INDICATED ON THE LIGHT FIXTURE SCHEDULE. A COMPLETE FIXTURE MODEL NUMBER REVIEW SHALL BE COMPLETED WHEN SUBMITTED AFTER BIDDING.

The following is also acceptable with notations above.
A, A-EM, A1, A1-EM, and A2 - Beacon / SRT2

Diversified

Transmittal

Diversified
5466 Fairmont Drive
Wilmington DE 19804
Phone: (302) 286-6370
From: Joe Burkart

Project **STATE OF DELAWARE OMB/DIVISION OF FACILITES MANAGEMENT - LEGISLATIVE HALL PARKING GARAGE**
Quote# DEL25-245119
Location DOVER DE
To Studio Jaded
750 South Madison Street
Suite 200
Wilmington DE 19801
Contact:

THE FOLLOWING FIXTURE TYPES ARE REJECTED:
- A, A-EM, A1, A1-EM, A2

THE FOLLOWING FIXTURE TYPES ARE ACCEPTABLE AS NOTED:
- J - PROVIDE WITH INTEGRAL OCCUPANCY MOTION - FIXTURE TO DIM UPON VACANCY.
- K1-EM, K2-EM - PROVIDE WITH INTEGRAL EMERGENCY LIGHTING CONTROL UNIT.
- L1, WPK - PROVIDE WITH 10 YEAR WARRANTY.

THE REMAINING FIXTURE TYPES ARE ACCEPTABLE.

ALL FIXTURES SHALL BE PROVIDED WITH LUMEN OUTPUT, COLOR TEMPERATURE, ACCESSORIES, ETC AS INDICATED ON THE LIGHT FIXTURE SCHEDULE. A COMPLETE FIXTURE MODEL NUMBER REVIEW SHALL BE COMPLETED WHEN SUBMITTED AFTER BIDDING.

ATTACHED WE ARE SENDING YOU 1 COPY OF THE F

- ☐ Drawings
- ☐ Prints
- ☐ Plans
- ☐ Specifications
- ☐ Information
- ☐ Submittals

THESE ARE TRANSMITTED FOR:

- ☐ Prior Approval
- ☐ Approval
- ☐ Approval as Submitted
- ☐ Approval as Noted
- ☐ Resubmittal for Appr
- ☐ Corrections
- ☐ Your Use
- ☐ Review and Comment

Type	MFG	Part
~~A~~	~~LSI Industries~~	~~HPG-P-10L-5Q-UNV-30-XX-IMSBT1L~~
~~A-EM~~	~~LSI Industries~~	~~HPG-P-10L-5Q-UNV-30-XX-IMSBT1L~~
~~A1~~	~~LSI Industries~~	~~HPG-P-13L-5Q-UNV-30-XX-IMSBT1L~~
~~A1-EM~~	~~LSI Industries~~	~~HPG-P-13L-5Q-UNV-30-XX-IMSBT1L~~
~~A2~~	~~LSI Industries~~	~~HPG-P-20L-5Q-UNV-30-XX-IMSBT1L~~
B	HE Williams	BP-22-LS/8CS-DIM-UNV
D2	HE Williams	SLF-2-L26-830-HIA/TP-XX-
D4	HE Williams	SLF-4-L52-830-HIA/TP-XXX
D4-EM	HE Williams	SLF-4-L52-830-HIA/TP-EM/10W-XXX
EX	ABB INSTALLATION PRODUCTS, I	WW-SVX-1-R-4X
F	HE Williams	96-4-L110-840-HIAFR-DIM-UNV
G	STERNBERG LIGHTING	1W-1843LEDTF -12L-30-T5-MDL014-SV1
G-ARM	STERNBERG LIGHTING	480-U-T-B-WB-BKT
H	Pinnacle Architectural Lighting	EV6-WET-830-CL3900-IND-FL-U-FSD-1-BATTERY TYPE-FINISH-XX
J	Beacon Products (Current)	VPW-2-48L-20-3K7-XXX-PC
J-EM	Beacon Products (Current)	VPW-2-48L-20-3K7-XXX-PC-E
K1	HE Williams	SLF-4-L52-830-HIA/TP-XXXX
K1-EM	HE Williams	SLF-4-L52-830-HIA/TP-EM/10W-XXXX
K2-EM	HE Williams	SLF-4-L52-830-HIA/TP-EM/10W-XXXX
L1	HE Williams	75R-4-L50-830-XX
L2	HE Williams	75R-4-L50-830-XX
WPK	EXO (Current)	WGH1-50-LSCS-UNVC

Legislative Hall Parking Garage
Martin Luther King Jr Blvd South & East Water Street
Dover, DE 19901
OMB / DFM Contract #MJ1002000071

BID FORM

For Bids Due: November 20, 2025 **To:** State of Delaware OMB / DFM
Haslet Armory
122 Martin Luther King Jr Blvd S, 2nd Floor
Dover, DE 19901

Name of Bidder: _____

Delaware Business License No.: _____ **Taxpayer ID No.:** _____

(Other License Nos.): _____

Phone No.: ( ) _____ - _____ **Fax No.: ( ) _____ - _____**

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

$_____
($)

ALLOWANCES

Allowances conform to applicable project specification section. Refer to the specifications for a complete description of the following Allowances:

ALLOWANCE No. 1: Include an allowance entitled "General Owner's Allowance" in the amount of $750,000.00. This allowance will be utilized by the Owner for Owner-elected changes to the work. Any or all unused allowance monies shall be returned to the Owner via a credit change order at the end of the project. This allowance shall be carried as an individual line item on the Application for Payment.

Acknowledge / Initial: _____

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed-out part that does not apply.

ALTERNATE No. 1: Provide lightning protection system as indicated in the Bid Documents.

Add / Deduct: $_____
($)

ALTERNATE No. 2: Provide Solar Panel system and associated equipment as noted in the Bid Documents.

Add / Deduct: $_____

($)

ALTERNATE No. 3: Provide Synthetic Slate Shingle roof in lieu of Concrete Tile as indicated in the Bid Documents.

Add / Deduct: $_____

($)

Legislative Hall Parking Garage
Martin Luther King Jr Blvd South & East Water Street
Dover, DE 19901
OMB / DFM Contract #MJ1002000071

BID FORM

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for thirty (30) days from the date of opening of bids (60 days for School Districts and Department of Education), and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid.

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within _____calendar days of the Notice to Proceed.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

_____
(State of Corporation)

Business Address:_____
_____
_____
_____

Witness: _____ **By:** _____
(Authorized Signature)

(SEAL)

_____
(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
Bid Security
(Others as Required by Project Manuals)

Legislative Hall Parking Garage
Martin Luther King Jr Blvd South & East Water Street
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BID FORM

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

Subcontractor Category		Subcontractor	Address (City & State)	Subcontractors tax-payer ID # or Delaware Business license #
1.	Concrete			
	A.			
	B.			
	C.			
2.	Precast Concrete			
	A.			
	B.			
	C.			

Legislative Hall Parking Garage
Martin Luther King Jr Blvd South & East Water Street
Dover, DE 19901
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BID FORM (Continued)

3.	Specialty Foundation	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____
4.	Masonry	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____
5.	Structural Steel	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____

Legislative Hall Parking Garage
Martin Luther King Jr Blvd South & East Water Street
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BID FORM (Continued)

6.	Roofing	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____
7.	Painting & Coating	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____
8.	Elevator	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____

Legislative Hall Parking Garage
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BID FORM (Continued)

9.	Fire Suppression	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____
10.	Plumbing	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____
11.	Mechanical	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____

Legislative Hall Parking Garage
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BID FORM (Continued)

12.	Electrical	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____
13.	Site Work	_____	_____	_____
	A.	_____	_____	_____
	B.	_____	_____	_____
	C.	_____	_____	_____

Legislative Hall Parking Garage
Martin Luther King Jr Blvd South & East Water Street
Dover, DE 19901
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BID FORM

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date *(to the Office of Management and Budget, Division of Facilities Management)*.

All the terms and conditions of *OMB/DFM Contract #MJ1002000071* have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE (TYPED): _____

AUTHORIZED REPRESENTATIVE (SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

_____

_____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite, including subcontractors, that complies with this regulation:

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

_____

_____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

Legislative Hall Parking Garage
Martin Luther King Jr Blvd South & East Water Street
Dover, DE 19901
OMB / DFM Contract #MJ1002000071

AFFIDAVIT OF CONTRACTOR QUALIFICATIONS

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

_____

_____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

SECTION 09 30 00
TILING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Tile for floor applications.

B. Tile for wall applications.

C. Cementitious backer board as tile substrate.

D. Stone thresholds.

E. Ceramic accessories.

1.02 RELATED REQUIREMENTS

A. Section 07 92 00 - Joint Sealants: Sealing joints between tile work and adjacent construction and fixtures.

B. Section 09 05 61 - Common Work Results for Flooring Preparation: Concrete slab moisture and alkalinity testing and remediation procedures.

C. Section 09 21 16 - Gypsum Board Assemblies: 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; 2023.

B. ANSI A108.1b - Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set, Modified Dry-Set, or Improved Modified Dry-Set Cement Mortar; 2023.

C. ANSI A108.1c - Contractor's 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 Setting Bed with Dry-Set, Modified Dry-Set, or Improved Modified Dry-Set Cement Mortar; 2023.

D. ANSI A108.4 - American National Standard Specifications for Installation of Ceramic Tile with Organic Adhesive or Water Cleanable Tile-Setting Epoxy Adhesive; 2023.

E. ANSI A108.5 - Setting of Ceramic Tile with Dry-Set Cement Mortar, Modified Dry-Set Cement Mortar, EGP (Exterior Glue Plywood) Modified Dry-Set Cement Mortar, or Improved Modified Dry-Set Cement Mortar; 2023.

F. ANSI A108.6 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grout Epoxy; 2023.

G. ANSI A108.8 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant Furan Resin Mortar and Grout; 1999 (Reaffirmed 2019).

H. ANSI A108.9 - American National Standard Specifications for Installation of Ceramic Tile with Modified Epoxy Emulsion Mortar/Grout; 2023.

I. ANSI A108.10 - American National Standard Specifications for Installation of Grout in Tilework; 2017 (Reaffirmed 2022).

J. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units; 2018.

K. ANSI A108.12 - Installation of Ceramic Tile with EGP (Exterior Glue Plywood) Modified Dry-Set Mortar; 2023.

L. ANSI A108.13 - American National Standard for Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone; 2005 (Reaffirmed 2021).

M. ANSI A108.19 - American National Standard Specifications for Interior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs by the Thin-Bed Method Bonded with Modified Dry-Set Cement Mortar or Improved Modified Dry-Set Cement Mortar; 2020.

N. ANSI A108.20 - American National Standard Specifications for Exterior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs; 2020.

O. ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 2019.

P. ANSI A118.12 - American National Standard Specifications for Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation; 2014 (Reaffirmed 2019).

Q. ANSI A137.1 - American National Standard Specifications for Ceramic Tile; 2022.

R. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation; 2024.

S. TCNA (HB-GP) - Handbook for Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs Installation; 2023.

1.04 ADMINISTRATIVE REQUIREMENTS

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

1.05 SUBMITTALS

A. See Section 01 30 00 - 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 by 18 inches in size illustrating pattern, color variations, and grout joint size variations.

D. Installer's Qualification Statement:
   1. Submit documentation of National Tile Contractors Association (NTCA) or Tile Contractors' Association of America (TCAA) accreditation.

1.06 QUALITY ASSURANCE

1.07 MOCK-UPS

A. See Section 01 40 00 - Quality Requirements for general requirements for mock-up.

B. Construct tile mock-up where indicated on drawings, incorporating all components specified for the location.
   1. Minimum size of mock-up is indicated on drawings.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions.

1.09 FIELD CONDITIONS

A. Do not install solvent-based products in an unventilated environment.

B. Maintain ambient and substrate temperature above 50 degrees F and below 100 degrees F during installation and curing of setting materials.

PART 2 PRODUCTS

2.01 TILE

A. Manufacturers: All products by the same manufacturer.
   1. American Olean Corporation: www.americanolean.com/#sle.
   2. Architessa: www.architessa.com/#sle.
   3. Dal-Tile Corporation; (Basis-of-Design Manufacturer): www.daltile.com/#sle.
   4. Emser Tile, LLC: www.emser.com/#sle.
   5. Florim USA: www.milestonetiles.com/#sle.
   6. Approved Equal.
   7. Substitutions: See Section 01 60 00 - Product Requirements.

B. Glazed Wall Tile, Type Toilet Room Walls: ANSI A137.1, standard grade.

1. Size: 4 by 4 inch, nominal.
2. Edges: Cushioned.
3. Surface Finish: High gloss.
4. Color(s): To be selected by Architect from manufacturer's standard range.

C. Ceramic Tile, Type Toilet Room Floors: ANSI A137.1, standard grade.
1. Size: 1 by 1 inch, nominal.
2. Thickness: 1/4 inch, nominal.
3. Edges: Cushioned.
4. Surface Finish: Unglazed.
5. Color(s): To be selected by Architect from manufacturer's standard range.
6. Products:
a. Dal-Tile Corporation; Keystones (Basis-of-Design): www.daltile.com/#sle.
b. Metropolitan Ceramics: www.metroceramics.com/#sle.
c. Summitville Tiles, Inc: www.summitville.com/#sle.
d. Approved Equal.
e. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 TRIM AND ACCESSORIES

A. Thresholds: 5 inches wide by full width of wall or frame opening; beveled edge on both long edges; without holes, cracks, or open seams.
1. Thickness: 1/2 inch.
2. Material: Marble, honed finish.
3. Color and Pattern: As selected from Manufacturer's standard range.
4. Applications:
a. At doorways where tile terminates.

2.03 SETTING MATERIALS

A. Provide setting and grout materials from same manufacturer.

2.04 GROUTS

A. Provide setting and grout materials from same manufacturer.

2.05 ACCESSORY MATERIALS

A. Concrete Floor Slab Crack Isolation Membrane: Material complying with ANSI A118.12; not intended as waterproofing.
1. Crack Resistance: No failure at 1/8 inch gap, minimum.

B. Backer Board: Cementitious type complying with ANSI A118.9; high density, glass fiber reinforced, 5/8 inch thick; 2 inch wide coated glass fiber tape for joints and corners.

PART 3 EXECUTION

3.01 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.

3.02 INSTALLATION - GENERAL

A. Install tile, thresholds, and stair treads and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.20, manufacturer's instructions, and TCNA (HB) or TCNA (HB-GP) recommendations, as applicable.

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. Align floor joints.

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.

G. Sound tile after setting. Replace hollow sounding units.

H. Keep control and expansion joints free of mortar, grout, and adhesive.

I. Prior to grouting, allow installation to completely cure; minimum of 48 hours.

J. Grout tile joints unless otherwise indicated. Use standard grout unless otherwise indicated.

K. At changes in plane and tile-to-tile control joints, use tile sealant instead of grout, with either bond breaker tape or backer rod as appropriate to prevent three-sided bonding.

3.03 INSTALLATION - FLOORS - THIN-SET METHODS

A. Over interior concrete substrates, install in accordance with TCNA (HB) Method F113, dry-set or latex-Portland cement bond coat, with standard grout, unless otherwise indicated.
   1. Use uncoupling membrane under all tile unless other underlayment is indicated.

B. Install tile-to-tile floor movement joints in accordance with TCNA (HB) Method EJ171F.

3.04 INSTALLATION - WALL TILE

A. Over cementitious backer units on studs, install in accordance with TCNA (HB) Method W244, using membrane at toilet rooms.

3.05 CLEANING

A. Clean tile and grout surfaces.

3.06 PROTECTION

A. Do not permit traffic over finished floor surface for 4 days after installation.

END OF SECTION

SECTION 09 65 00
RESILIENT FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Resilient sheet flooring.

B. Static control resilient tile flooring.

C. Resilient base.

1.02 RELATED REQUIREMENTS

A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.

B. Section 03 30 00 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors to receive adhesive-applied resilient flooring.

C. Section 09 05 61 - Common Work Results for Flooring Preparation: Concrete slab moisture and alkalinity testing.

1.03 REFERENCE STANDARDS

A. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2023.

B. ASTM F150 - Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring; 2006 (Reapproved 2018).

C. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2022.

D. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile; 2023.

E. ASTM F1344 - Standard Specification for Rubber Floor Tile; 2021a.

F. ASTM F1700 - Standard Specification for Solid Vinyl Floor Tile; 2020.

G. ASTM F1859 - Standard Specification for Rubber Sheet Floor Covering Without Backing; 2021a.

H. ASTM F1861 - Standard Specification for Resilient Wall Base; 2021.

I. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2023.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

C. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.

D. Verification Samples: Submit two samples, 6 by 6 inch in size illustrating color and pattern for each resilient flooring product specified.

E. Sustainable Design Submittal: Submit VOC content documentation for flooring and adhesives.

1.05 FIELD CONDITIONS

A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.01 SHEET FLOORING

2.02 TILE FLOORING

A. Static Control Tile - Type LINO-1: Homogeneous; color and pattern throughout thickness.
   1. Manufacturers:
      a. Flexco Corporation; Delane ESD Vinyl: www.flexcofloors.com/#sle.
      b. Mannington Commercial: www.manningtoncommercial.com#sle.
      c. Roppe Corporation; ESD Vinyl Static Control Tile: www.roppe.com/#sle.
      d. Approved Equal.
      e. Substitutions: See Section 01 60 00 - Product Requirements.
   2. Minimum Requirements: Solid vinyl tile complying with ASTM F1700, Class 1, Type A.
   3. Minimum Requirements: Vinyl composition tile complying with ASTM F1066, Class 2.
   4. Electrical Resistance:
      a. Dissipative Tile: Resistance between 1.0 megohms and 1000 megohms as tested in accordance with ASTM F150.
   5. VOC Content Limits: As specified in Section 01 61 16.
   6. Tile Size: 12 by 12 inch.
   7. Total Thickness: 0.125 inch.
   8. Color: To be selected by Architect from manufacturer's standard range.

2.03 RESILIENT BASE

A. Resilient Base: ASTM F1861, Type TS, rubber, vulcanized thermoset; style as scheduled.
   1. Manufacturers:
      a. Flexco Corporation: www.flexcofloors.com/#sle.
      b. Johnsonite, a Tarkett Company: www.johnsonite.com/#sle.
      c. Mannington Commercial: www.manningtoncommercial.com#sle.
      d. Roppe Corporation(Basis-of-Design): www.roppe.com/#sle.
      e. Approved Equal.
      f. Substitutions: See Section 01 60 00 - Product Requirements.
   2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
   3. Height: 4 inches.
   4. Color: To be selected by Architect from manufacturer's standard range.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

B. Cementitious Subfloor Surfaces: Verify that substrates are ready for resilient flooring installation by testing for moisture and alkalinity (pH).
   1. Test in accordance with Section 09 05 61.
   2. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

3.02 PREPARATION

A. Prepare floor substrates for installation of flooring in accordance with Section 09 05 61.

3.03 INSTALLATION - GENERAL

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install in accordance with manufacturer's written instructions.

C. Adhesive-Applied Installation:

1. Fit joints and butt seams tightly.
2. Set flooring in place, press with heavy roller to attain full adhesion.

D. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.

E. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

F. At movable partitions, install flooring under partitions without interrupting floor pattern.

3.04 INSTALLATION - TILE FLOORING

A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.

B. Lay flooring with joints and seams parallel to building lines.

3.05 INSTALLATION - RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.

B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.

C. Install base on solid backing. Bond tightly to wall and floor surfaces.

D. Scribe and fit to door frames and other interruptions.

3.06 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean in accordance with manufacturer's written instructions.

3.07 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION

SECTION 09 91 00
PAINTING

PART 1 - GENERAL

1.1 SUMMARY

A. The extent of work included in this Section is shown on the Drawings and is specified as follows:

1. Exposed exterior items and surfaces.
2. Exposed interior items and surfaces.
3. Painting parking lines, arrows, and curb edges.
4. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.
5. Pipe guards
6. Railings

B. Paint exposed surfaces, except where the paint schedules indicate that a surface or material is not to be painted or is to remain natural. If the paint schedules do not specifically mention an item or a surface, paint the item or surface as directed by the Architect. If the schedules do not indicate color or finish, the Architect will select from standard colors and finishes available.

C. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.

1. Prefinished items include the following factory-finished components:
   a. Metal panel ceiling.
   b. Toilet compartments.
   c. Finished mechanical and electrical equipment.
   d. Light fixtures.
   e. Distribution cabinets.

2. Concealed surfaces include walls or ceilings in the following generally inaccessible spaces:
   a. Foundation spaces.
   b. Furred areas.
   c. Ceiling plenums.
   d. Pipe spaces.
   e. Duct shafts.

3. Finished metal surfaces include the following:
   a. Color anodized aluminum.
   b. Stainless steel.
   c. Chromium plate.
   d. Copper.
   e. Bronze and brass.

4. Operating parts include moving parts of operating equipment and the following:
   a. Valve and damper operators.
   b. Linkages.
   c. Sensing devices.
   d. Motor and fan shafts.

5. Labels: Do not paint over Underwriters Laboratories (UL), Factory Mutual (FM), or other code-required labels or equipment name, identification, performance rating, or nomenclature plates.

D. Refer to other Sections of these Specifications, which may have shop priming requirements affecting the Work of this Section

1.2 DEFINITIONS

A. General: Standard coating terms defined in ASTM D16 apply to this Section.

1. Flat refers to a lusterless or matte finish with a gloss range below 15 when measured at an 85-degree meter.
2. Eggshell refers to low-sheen finish with a gloss range between 5 and 20 when measured at a 60-degree meter.
3. Satin refers to low-sheen finish with a gloss range between 15 and 35 when measured at a 60-degree meter.
4. Semi-gloss refers to medium-sheen finish with a gloss range between 30 and 65 when measured at a 60-degree meter.
5. Full gloss refers to high-sheen finish with a gloss range more than 65 when measured at a 60-degree meter.

1.3 SUBMITTALS

A. Product Data: For each paint system specified. Include block fillers and primers.

1. Material List: Provide an inclusive list of required coating materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
2. Manufacturer's Information: Provide manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each coating material proposed for use.
3. Certification by the manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).

B. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available for each type of finish-coat material indicated.

1. After color selection, the Architect will furnish color chips for surfaces to be coated.

C. Samples for Verification: Of each color and material to be applied, with texture to simulate actual conditions, on representative Samples of the actual substrate.

1. Provide stepped Samples, defining each separate coat, including block fillers and primers. Use representative colors when preparing Samples for review. Resubmit until required sheen, color, and texture are achieved.
2. Provide a list of materials and applications for each coat of each sample. Label each sample for location and application.
3. Submit Samples on the following substrates for the Architect's review of color and texture only:
    a. Painted Wood: Provide two 12-inch-square samples of each color and material on hardboard.
    b. Ferrous Metal: Provide two 4-inch-square samples of flat metal and two 8-inch long samples of solid metal for each color and finish.

D. Qualification Data: For firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project

names and addresses, names and addresses of architects and owners, and other information specified.

1.4 QUALITY ASSURANCE

A. Applicator Qualifications: The Contractor performing the Work of this Section must, within the last five (5) consecutive years, have successfully completed in a timely fashion at least three (3) projects similar in scope and type to the required work for this Section.

B. Source Limitations: Obtain block fillers, primers, and undercoat materials for each coating system from the same manufacturer as the finish coats.

C. Benchmark Samples (Mockups): Provide a full-coat benchmark finish sample of each type of coating and substrate required on the Project. Comply with procedures specified in PDCA P5. Duplicate finish of approved prepared samples.

1. The Architect will select one room or surface to represent surfaces and conditions for each type of coating and substrate to be painted.

a. Wall Surfaces: Provide samples on at least 100 sq. ft. of wall surface.
b. Small Areas and Items: The Architect will designate an item or area as required.

2. After permanent lighting and other environmental services have been activated, apply coatings in this room or to each surface according to the Schedule or as specified. Provide required sheen, color, and texture on each surface.

a. After finishes are accepted, the Architect will use the room or surface to evaluate coating systems of a similar nature.

3. Final approval of colors will be from job-applied samples.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the Project Site in manufacturer’s original, unopened packages and containers bearing manufacturer’s name and label, and the following information:

1. Product name or title of material.
2. Product description (generic classification or binder type).
3. Manufacturer’s stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content.

B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F. Maintain storage space temperature and humidity within range acceptable to paint manufacturer. Maintain containers used in storage in a clean condition, free of foreign materials and residue.

1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing, and application.

1.6 PROJECT CONDITIONS

A. Apply water-based paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 50 and 90 deg F.

B. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 and 95 deg F.

C. Do not apply paint in snow, rain, fog, or mist; or when the relative humidity exceeds 85 percent; or at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

1.7 EXTRA MATERIALS

A. Furnish extra paint materials from the same production run as the materials applied in the quantities described below. Package paint materials in unopened, factory-sealed containers for storage and identify with labels describing contents. Deliver extra materials to the Owner.

1. Quantity: Furnish the Owner with extra paint materials in the quantities indicated below:
   a. Exterior, Full-Gloss Alkyd Enamel: 2 gal. of each color applied.
   b. Interior, Flat Acrylic Paint: One case of each color applied.
   c. Interior, Low-Luster Acrylic Finish: One case of each color applied.
   d. Interior, Semigloss Acrylic Enamel: 2 gal. of each color applied.
   e. Interior, Full-Gloss Alkyd Enamel: 1 gal. of each color required.

2. Quantity: Furnish the Owner with an additional 5 percent, but not less than 1 gal. or 1 case, as appropriate, of each material and color applied.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Products: Subject to compliance with requirements, provide one of the products in the paint schedules.

B. Manufacturers Names: The following manufacturers are referred to in the paint schedules by use of shortened versions of their names, which are shown in parentheses:
1. Benjamin Moore & Co. (Moore).
2. Pittsburgh Paints (PITT) / PPG Paints, Inc. (PPG).
3. Sherwin-Williams Co. (S-W).
4. Tnemec.
5. Approved equal.

2.2 PAINT MATERIALS, GENERAL

A. Material Compatibility: Provide primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

B. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.

1. Proprietary Names: Use of manufacturer's proprietary product names to designate colors or materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish manufacturer's material data and certificates of performance for proposed substitutions.

C. Colors: Provide color samples for selections made by the Architect.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with the Applicator present, under which painting will be performed for compliance with paint application requirements.

1. Do not begin to apply paint until unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
2. Start of painting will be construed as the Applicator's acceptance of surfaces and conditions within a particular area.

B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
Notify the Architect about anticipated problems using the materials specified over substrates primed by others.

3.2 PREPARATION

A. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of the size or weight of the item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.

B. Cleaning: Before applying paint or other surface treatments, clean the substrates of substances that could impair the bond of the various coatings. Remove oil and grease before cleaning.

1. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

C. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified.

1. Provide barrier coats over incompatible primers or remove and reprime.
2. Wood: Clean surfaces of dirt, oil, and other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sand surfaces exposed to view smooth and dust off.

    a. Scrape and clean small, dry, seasoned knots, and apply a thin coat of white shellac or other recommended knot sealer before applying primer. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sand smooth when dried.
    b. Prime, stain, or seal wood to be painted immediately on delivery. Prime edges, ends, faces, undersides, and backsides of wood, including cabinets, counters, cases, and paneling.
    c. When transparent finish is required, backprime with spar varnish.
    d. Backprime paneling on interior partitions where masonry, plaster, or other wet wall construction occurs on backside.
    e. Seal tops, bottoms, and cutouts of unprimed wood doors with a heavy coat of varnish or sealer immediately on delivery.

3. Ferrous Metals: Clean ungalvanized ferrous-metal surfaces that have not been shop coated; remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with the Steel Structures Painting Council's (SSPC) recommendations.

    a. Blast steel surfaces clean as recommended by paint system manufacturer and according to requirements of SSPC-SP 10.
    b. Treat bare and sandblasted or pickled clean metal with a metal treatment wash coat before priming.
    c. Touch up bare areas and shop-applied prime coats that have been damaged. Wire-brush, clean with solvents recommended by paint manufacturer, and touch up with the same primer as the shop coat.

4. Galvanized Surfaces: Clean galvanized surfaces with nonpetroleum-based solvents so surface is free of oil and surface contaminants. Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical methods.

5. Cementitious Materials: Prepare concrete, concrete masonry block and cement plaster surfaces to be painted. Remove efflorescence, chalk, dust, dirt, grease, oils, and release agents. Roughen, as required, to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods of surface preparation.

    a. Use abrasive blast-cleaning methods if recommended by the paint manufacturer.
    b. Determine alkalinity and moisture content of surfaces by performing appropriate tests. If surfaces are sufficiently alkaline to cause the finish paint to blister and burn, correct this condition before application. Do not paint surfaces where moisture content exceeds that permitted in manufacturer's printed directions.
    c. Clean concrete floors to be painted with a 5 percent solution of muriatic acid or other etching cleaner. Flush the floor with clean water to remove acid or neutralize the ammonia, rinse, allow to dry, and vacuum before painting.

6. Gypsum Materials: Prepare gypsum castings, gypsum block and gypsum based plaster surfaces to be painted. Remove chalk, dust, dirt, grease, oils, and release agents. Roughen, as required, to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods of surface preparation.

    a. Use abrasive cleaning methods if recommended by the paint and gypsum product manufacturer.
    b. Determine alkalinity and moisture content of surfaces by performing appropriate tests. If surfaces are sufficiently alkaline to cause the finish paint to blister and burn, correct this condition before application. Do not paint surfaces where moisture content exceeds that permitted in manufacturer's printed directions.
    c. Prepare gypsum wall board in accordance with wall board manufacturer and paint manufacturer, provide sizing, sealers and related treatments as recommended.

D. Materials Preparation: Mix and prepare paint materials according to manufacturer's written instructions.

1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
2. Stir material before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into material. If necessary, remove surface film and strain material before using.
3. Use only thinners approved by paint manufacturer and only within recommended limits.

3.3 APPLICATION

A. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.

1. Paint colors, surface treatments, and finishes are indicated in the schedules.
2. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
3. Provide finish coats that are compatible with primers used.
4. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, covers for finned-tube radiation, grilles, and similar components are in place. Extend coatings in these areas, as required, to maintain the system integrity and provide desired protection.
5. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Before the final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
6. Paint interior surfaces of ducts with a flat, nonspecular black paint where visible through registers or grilles.
7. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.
8. Finish exterior doors on tops, bottoms, and side edges the same as exterior faces.
9. Finish interior of wall and base cabinets and similar field-finished casework to match exterior.
10. Sand lightly between each succeeding enamel or varnish coat.
11. Where fascias, soffits and housings that are to be painted are exposed to exterior viewing, allow for second color selection by Architect, and for painting of viewable surfaces different color from adjacent surfaces, match approved samples.

B. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.

1. The number of coats and the film thickness required are the same regardless of application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer's written instructions, sand between applications.
2. Omit primer on metal surfaces that have been shop primed and touchup painted.
3. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
4. Allow sufficient time between successive coats to permit proper drying. Do not recoat surfaces until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and where application of another coat of paint does not cause the undercoat to lift or lose adhesion.

C. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.

1. Brushes: Use brushes best suited for the type of material applied. Use brush of appropriate size for the surface or item being painted.
2. Rollers: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by the manufacturer for the material and texture required.
3. Spray Equipment: Use airless spray equipment with orifice size as recommended by the manufacturer for the material and texture required.

D. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate. Provide the total dry film thickness of the entire system as recommended by the manufacturer.

E. Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to items exposed in equipment rooms and in occupied spaces.

F. Mechanical items to be painted include, but are not limited to, the following:

1. Piping, pipe hangers, and supports.
2. Heat exchangers.
3. Tanks.
4. Ductwork.
5. Insulation.
6. Motors and mechanical equipment.
7. Accessory items.

G. Electrical items to be painted include, but are not limited to, the following:

1. Conduit and fittings.
2. Switchgear.
3. Panelboards.

H. Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn through or other defects due to insufficient sealing.

I. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.

J. Stipple Enamel Finish: Roll and redistribute paint to an even and fine texture. Leave no evidence of rolling, such as laps, irregularity in texture, skid marks, or other surface imperfections.

K. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

L. Paint parking stalls, marking lines, etc. to be as detailed on the Drawings. Unless otherwise detailed, single line width shall be four-inches-wide. Striped areas shall consist of four-inch-wide lines spaces 18-inches on center. Lay out all painted lines and define with chalk lines for approval before proceeding with painting.

3.4 FIELD QUALITY CONTROL

A. The Owner reserves the right to invoke the following test procedure at any time and as often as the Owner deems necessary during the period when paint is being applied:

1. The Owner will engage the services of an independent testing agency to sample the paint material being used. Samples of material delivered to the Project will be taken, identified, sealed, and certified in the presence of the Architect.
2. The testing agency will perform appropriate tests for the following characteristics as required by the Owner:

a. Quantitative material analysis.
b. Abrasion resistance.
c. Apparent reflectivity.
d. Flexibility.
e. Washability.
f. Absorption.
g. Accelerated weathering.
h. Dry opacity.
i. Accelerated yellowness.
j. Recoating.
k. Skinning.
l. Color retention.
m. Alkali and mildew resistance.

3. The Owner may direct the Contractor to stop painting if test results show material being used does not comply with specified requirements. The Contractor shall remove noncompliant paint from the site, pay for testing, and repaint surfaces previously coated with the rejected paint. If necessary, the Contractor may be required to remove rejected paint from previously painted surfaces if, on repainting with specified paint, the two coatings are incompatible.

3.5 CLEANING

A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from the site.

1. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping. Be careful not to scratch or damage adjacent finished surfaces.

3.6 PROTECTION

A. Protect work of other trades, whether being painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect.

B. Provide “Wet Paint” signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.

1. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in PDCA P1.

3.7 EXTERIOR PAINT SCHEDULE

A. Ferrous Metals: provide the following finish systems over exterior ferrous metals:

1. Full-Gloss, Alkyd-Enamel Finish: 2 finish coats over a rust-inhibitive primer.

a. Primer: Rust-inhibitive metal primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.3 mils.

1) Moore: HP Universal Metal Primer HP1320
2) Pittsburgh Paints: 6-208 Speedhide Interior/Exterior Rust Inhibitive Steel Primer.
3) S-W: Kem Kromik Metal Primer B50N2/B50W1.
4) Approved equal.

b. First and Second Coats: Full-gloss, exterior, alkyd enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 3.0 mils.

1) Moore: HP Alkyd Urethane Enamel HP2200.
2) Pittsburgh Paints: 90-1510 Pitt Tech Plus DTM
3) S-W: Industrial Enamel B-54 Series.
4) Approved equal.

B. Zinc-Coated Metal: Provide the following finish systems over exterior zinc-coated (galvanized) metal surfaces:

1. Full-Gloss, Alkyd-Enamel Finish: 2 finish coats over a galvanized metal primer.

a. Primer: Galvanized metal primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.
1) Moore: HP Acrylic Metal Primer HP1100;
2) Pittsburgh Paints: 90-1510 Pitt-Tech Plus DTM.
3) S-W: Galvite Paint B50W3.
4) Approved equal.

b. First and Second Coats: Full-gloss, exterior, alkyd enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.
1) Moore: Command Waterborne Acrylic Urethane Gloss HP3900.
2) Pittsburgh Paints: 90-1510 Pitt-Tech Plus DTM.
3) S-W: Industrial Enamel B-54 Series.
4) Approved equal.

C. Concrete and Masonry (Cured Concrete Masonry Units): Provide the following finish systems:

1. Semigloss, Acrylic-Enamel Finish: 2 finish coats over a primer.

a. Primer: Alkali-resistant, exterior, acrylic-latex primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.4 mils.
1) Moore: Ultra Spec Masonry Interior/Exterior 100% Acrylic Sealer 608
2) Pittsburgh Paints: Seal Grip 17-921 XI
3) S-W: Loxon Concrete and Masonry Primer
4) Approved equal.

b. First and Second Coats: Semigloss, exterior, acrylic-latex enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.4 mils.
1) Moore: Ultra Spec EXT Exterior Acrylic Soft Gloss W449
2) Pittsburgh Paints: Speedhide Exterior 6-900XI series
3) S-W: A100 Exterior Acrylic Latex
4) Approved equal.

D. Traffic and Parking Stall Markings:
1. Two Coats of Latex Acrylic Emulsion Paint
a. First and Second Coats: Latex Acrylic Emulsion 15 mils wet coat; yellow (AASHTO Designation M248, Traffic Type II Paints).
1) Moore: Insl-x Traffic Paint Yellow TP3224
2) PPG ZONELINE® Exterior Traffic & Zone Marking Paint

E. Cellular PVC Fabrications: Provide the following finish systems:

1. Semigloss, Exterior Grade Urethane-Enamel Finish: 2 finish coats over a primer.

a. Primer:
1) Moore: HP Waterborne Bonding Primer HP1750
2) Pittsburgh Paints: Amerlock 2 Primer
3) S-W: Extreme Bond Primer
4) Approved equal.

b. First and Second Coats: Semigloss
1) Moore: Command Waterborne Acrylic Urethane Gloss HP3900
2) Pittsburgh Paints: Durathane
3) S-W: Pro Industrial Waterbased Alkyd Urethane
4) Approved equal.

3.8 INTERIOR PAINT SCHEDULE

A. Gypsum Board: Provide the following finish systems over interior gypsum board surfaces:

1. Low-Luster, Acrylic-Enamel Finish: 2 finish coats over a primer.

a. Primer: Latex-based, interior primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.

1) Moore: Ultra Spec 500 Interior Latex Primer N534
2) Pittsburgh Paints: Seal Grip 17-921XI
3) S-W: Promar 200 Primer
4) Approved equal.

b. First and Second Coats: Low-luster (eggshell or satin), acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.8 mils.

1) Moore: Ultra Spec 500 Interior Latex Low Lustre T537
2) Pittsburgh Paints: Speedhide Eggshell Latex Wall and Trim Enamel.
3) S-W: Pro Industrial Acrylic
4) Approved equal.

B. Woodwork: Provide the following paint finish systems over new, interior wood surfaces:

1. Semigloss, Alkyd-Enamel Finish: 2 finish coats over a primer.

a. Primer: Alkyd or latex-based, interior enamel undercoater applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils (0.031 mm).

1) Moore: Ultra Spec 500 Interior Latex Primer N534
2) Pittsburgh Paints: Seal Grip 17-921XI
3) S-W: ProMar 200 Alkyd Enamel Undercoater B49W200.
4) Approved equal.

b. First and Second Coats: Odorless, semigloss, alkyd, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.4 mils.

1) Moore: Ultra Spec 500 Interior Latex Semi-Gloss T546
2) Pittsburgh Paints: SPEEDHIDE® Interior/Exterior WB Alkyd

3) S-W: Promar 200 Interior Alkyd Enamel
4) Approved equal.

C. Ferrous Metal: Provide the following finish systems over ferrous metal:

1. Semigloss, Alkyd-Enamel Finish: One finish coat over an enamel undercoater and a primer.

a. Primer: Quick-drying, rust-inhibitive, alkyd-based or epoxy-metal primer, as recommended by the manufacturer for this substrate, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.5 mils.

1) Moore: HP Universal Metal Primer HP1320
2) Pittsburgh Paints: 6-208 Speedhide Interior/Exterior Rust Inhibitive Steel Primer.
3) SW: ProCryl Primer
4) Approved equal.

b. Undercoat: Alkyd, interior enamel undercoat or semigloss, interior, alkyd-enamel finish coat, as recommended by the manufacturer for this substrate, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.

1) Moore: HP Universal Metal Primer HP1320
2) Pittsburgh Paints: 6-6 Speedhide Interior Quick-Drying Enamel Undercoater.
3) S-W: ProMar 200 Interior Alkyd Semi-Gloss Enamel B34W200.
4) Approved equal.

c. Finish Coat: Odorless, semigloss, alkyd, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.4 mils.

1) Moore: Alkyd Urethane Enamel HP2210
2) Pittsburgh Paints: 27 Line Wallhide Low Odor Interior Enamel Wall and Trim Semi-Gloss Oil.
3) S-W: Promar 200 Interior Alkyd Enamel
4) Approved equal.

D. Zinc-Coated Metal: Provide the following finish systems over zinc-coated metal:

1. Semigloss, Alkyd-Enamel Finish: One finish coat over an undercoat and a primer.

a. Primer: Galvanized metal primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.

1) Moore: HP Acrylic Metal Primer HP1100
2) Pittsburgh Paints: 90-709 Pitt-Tech One Pack Interior/Exterior Primer/Finish DTM Industrial Enamel.
3) S-W: Galvite Paint B50W3.
4) Approved equal.

b. Undercoat: Alkyd, interior enamel undercoat or semigloss, interior, alkyd-enamel finish coat, as recommended by the manufacturer for this substrate, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.

1) Moore: Ultra Spec 500 Interior Latex Semi-Gloss T546

2) S-W: ProMar 200 Interior Alkyd Semi-Gloss Enamel.
3) MAB: Rich Lux Low Lustre Alkyd Enamel 021 line.
4) Approved equal.

c. Finish Coat: Odorless, semigloss, alkyd, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.4 mils.

1) Moore: Ultra Spec 500 Interior Latex Semi-Gloss T546
2) Pittsburgh Paints: SPEEDHIDE® Interior/Exterior WB Alkyd
3) S-W: ProMar 200 Interior Alkyd Semi-Gloss Enamel
4) Approved equal.

E. Concrete and Masonry (Cured Concrete Masonry Units) above-grade: Provide the following finish systems:

1. Semigloss, Acrylic-Enamel Finish: 2 finish coats over a primer.

a. Primer: Alkali-resistant, exterior, acrylic-latex primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.4 mils.
1) Moore: Ultra Spec Masonry Interior/Exterior 100% Acrylic Sealer 608
2) Pittsburgh Paints: SPEEDHIDE® Interior/Exterior Masonry Latex Block Filler
3) S-W: PrepRite Block Filler
4) Approved equal.

b. First and Second Coats: Semigloss, exterior, acrylic-latex enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.4 mils.
1) Moore: Ultra Spec EXT Exterior Soft Gloss N449
2) Pittsburgh Paints: SPEEDHIDE® Interior/Exterior Masonry Latex
3) S-W: A100 Exterior Acrylic Latex
4) Approved equal.

F. Concrete and Masonry (Cured Concrete Masonry Units) below-grade: Provide the following finish systems:

1. Semigloss, Acrylic-Enamel Finish: 2 finish coats over a primer.

a. Primer:
1) Moore: Ultra Spec Masonry Interior/Exterior 100% Acrylic Sealer 608
2) Pittsburgh Paints: SPEEDHIDE® Interior/Exterior Masonry Latex Block Filler
3) S-W: PrepRite Block Filler
4) Approved equal.

b. First and Second Coats: Semigloss…
1) Moore: Ultra Spec EXT Exterior Soft Gloss N449
2) Pittsburgh Paints: SPEEDHIDE® Interior/Exterior Masonry Latex
3) S-W: Pro Industrial Acrylic
4) Approved equal.

G. Concrete Floors: Provide the following finish systems:

1. Semi-Gloss Finish: 2 finish coats over a primer.

   a. Primer:
      1) Moore: Corotech 100% Solids Epoxy Pre-Primer V155
      2) PPG FLOORING 912 LV Epoxy Primer:
      3) S-W: Armorseal 8100 (As needed: reduced with 16 fl oz of water per gallon)
      4) Approved equal.

   b. First and Second Coats: Semigloss…
      1) Moore: Corotech Waterborne Amine Epoxy V440
      2) PPG: FLOORING™ 422 ESD Epoxy Coating System
      3) S-W: Armorseal 8100
      4) Approved equal.

END OF SECTION

SECTION 10 14 19
DIMENSIONAL LETTER SIGNAGE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Dimensional letter signage.

1.02 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's product literature for each type of dimensional letter sign, indicating style, font, colors, locations, and overall dimensions of each sign.

C. Shop Drawings:
   1. Include dimensions, locations, elevations, materials, text and graphic layout, and attachment details.

D. Samples: Submit one sample of each type of dimensional letter sign of size similar to that required for project, indicating sign style, font, and method of attachment.

E. Selection Samples: Where materials, colors, and finishes are not specified, submit two sets of selection charts or chips.

1.03 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Package dimensional letter signs as required to prevent damage before installation.

B. Store under cover and elevated above grade.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Dimensional Letter Signs:
   1. FASTSIGNS International, Inc: www.fastsigns.com/#sle.
   2. Inpro Corporation: www.inprocorp.com/#sle.
   3. Takeform: www.takeform.net/#sle.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 DIMENSIONAL LETTERS

A. Applications: Building Identification.
   1. Use individual metal letters.
   2. Mounting Location: Exterior as indicated on drawings.
   3. Allow for total of 50 letters, 6 inches high.

B. Metal Letters:
   1. Material: Stainless steel sheet, fabricated reverse channel.
   2. Thickness: 1/8 inch minimum.
   3. Letter Height: 12 inches.
   4. Text and Typeface:
      a. Character Font: Helvetica, Arial, or other sans serif font.
      b. Character Case: Upper case only.
   5. Finish: Brushed, satin.
   6. Color: As selected.
   7. Mounting: Concealed screws.

2.03 ACCESSORIES

A. Concealed Screws: Noncorroding metal; stainless steel, galvanized steel, chrome plated, or other.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

B. Notify Architect if conditions are not suitable for installation of signs; do not proceed until conditions are satisfactory.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install with horizontal edges level.

C. Protect from damage until Date of Substantial Completion; repair or replace damaged items.

END OF SECTION