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Internal Services
111 NW 1st Street, Suite 2420
Miami, Florida 33128
T 305-375-1128 F 305-375-1125

ADDENDUM NO. THREE

DATE: November 15, 2013
DEPARTMENT: Internal Services Department (ISD)
ISD PROJECT NAME: Joseph Caleb Center New Parking Garage
ISD PROJECT NUMBER: Z00051-PG
BID DUE DATE: November 22, 2013 (REVISED)
CONTRACT COORDINATOR: Edgar Lugo, Project Manager

This Addendum is issued to clarify and/or modify the previously issued Invitation to Bid, and is hereby made part of the Contract Documents. All requirements of the Invitation to Bid not modified herein shall remain in full force and effect as originally set forth. Bidders are required to acknowledge receipt of any and all addenda as instructed in the bid proposal form provided to that effect.

CLARIFICATIONS:

- 1. A copy of the Advertisement for Bids and the latest information available to prospective bidders can be found at https://www.miamidade.gov/DPMww/SolicitationList.aspx.
2. Lighting Fixture Schedule

Note:

Photometrics floor plans "should not" be used for bid purposes.

General Note:

All emergency lighting fixtures shall be provided with an emergency battery pack as indicated in the Lighting Fixture Schedule as follows:

- 1. Emergency lighting fixtures at parking space Type D2E.
2. Emergency lighting fixtures at stairs Type DE.
3. Emergency lighting fixtures at elevator lobby Type C3E.
4. Emergency lighting fixtures at exterior elevator lobby Type C4E.
5. Emergency lighting fixtures at electrical room, IT room, fire pump room, elevator machine room Type DE.

MODIFICATIONS:

- 1. In the Project Manual, Volume 1, General Documents, Section 00020, "Advertisement", page 1 of 4, please delete the following paragraph:

"Sealed bids for furnishing all labor, materials and equipment for the following project will be received in the Office of the Clerk of the Board of County Commissioners, Stephen P. Clark Center, 111 N.W. 1st Street, 17th Floor, Suite 17-202, Miami, FL up to 2:00 p.m., local time, on Wednesday, November 20, 2013. All bids received prior to the stipulated time will then be transferred to the 18th Floor, where envelopes will be publicly opened and prices read aloud shortly after 2:00 PM, local time, at the Stephen P. Clark Center, 111 N.W. 1st Street, 18th Floor, Miami, FL."

And insert the following text:

“Sealed bids for furnishing all labor, materials and equipment for the following project will be received in the Office of the Clerk of the Board of County Commissioners, Stephen P. Clark Center, 111 N.W. 1st Street, 17th Floor, Suite 17-202, Miami, FL **up to 2:00 p.m., local time, on Friday, November 22, 2013.** All bids received prior to the stipulated time will then be transferred to the 18th Floor, where envelopes will be publicly opened and prices read aloud shortly after 2:00 PM, local time, at the Stephen P. Clark Center, 111 N.W. 1st Street, 18th Floor, Miami, FL.”

RESPONSES TO REQUESTS FOR INFORMATION (RFIs):

Q20.1. Sheet A-351 Building Section “B-B” indicates the backside of the impact walls and beams with $\frac{3}{4}$ painted stucco (Typ.). Wall sections on Sheet A-550 & A-551 do not indicate the backside of the impact walls and beams receiving painted stucco. Please clarify is these areas are to receive painted stucco?

A20.1. The backside of impact walls and beams shall not receive painted stucco finish.

Q20.2. Sheet A-550 & A-551 Wall Section note states “refer to elevations for finishes and colors”. Elevations on Sheet A-250, A-251 and A-252 do not indicate what areas will receive smooth texture, rough texture or stucco finish and corresponding colors. Please revise elevation to indicate the required finishes and colors.

A20.2. All exposed concrete shall be standard gray concrete with a smooth finish achieved via formwork as noted in the elevations. Refer to plans and wall types for locations. All concrete masonry units (CMU) shall receive painted smooth stucco finish. Paint color to be selected by Architect.

Q20.3. Sheet A-150 indicates ETSD/IT Room G205 located on the NE corner of the second floor of the parking garage. Sheet A-250 north elevation and Sheet A252 East Elevations do not indicate the room G205. Please revise the elevations to reflect a masonry wall with painted stucco finish.

A20.3. Correct. G-205 should be shown on the East elevation.

Q20.4. Note on Sheets A-250, A-251 and A-252 states “All cast in place concrete shall be sealed smooth as cast architectural finish.” Please clarify the following:

- What is meant by “sealed smooth as cast architectural finish”?
- Will the exposed concrete wall and beams require be sealed? If so, please provide the pertinent specifications for the sealer.

A20.4. All exposed concrete shall be standard gray concrete with a smooth finish achieved via formwork as noted in the elevations. Please refer to plans and wall types for locations. All exposed concrete shall be sealed as per specification Sections 03300 and 07190.

Q20.5. Note on Sheets A-250, A-251 and A-252 states “All CMU walls shall receive smooth texture $\frac{3}{4}$ ” painted stucco finish. Wall types on Sheet A-800 indicate the CMU walls with “smooth” stucco and not “smooth textured”.

A20.5. Confirmed. Concrete masonry unit (CMU) walls to receive painted smooth stucco finish.

Q20.6. Note on Sheet A-351 Building Section “C-C” refers to a 150 mil thick bentonite waterproofing membrane. Please clarify is there are any other areas where this product is to be applied besides the bottom of the elevator slab and exterior side of the elevator walls.

- A20.6. This product shall be applied to the bottom of the elevator slab and exterior side of the elevator walls.
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- Q20.7. Please clarify all areas that will require being exposed concrete including if they are to have any type of textured finish.
- A20.7. All exposed concrete shall be standard gray concrete with a smooth finish achieved via formwork as noted in the elevations. Refer to plans and wall types for locations.
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- Q20.9. Please clarify if the lockers in the men's & women's locker rooms will require sloping tops.
- A20.9. Yes. Lockers will require sloped tops.
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- Q20.10. Sheet A450 Service Area Ground Floor Plan indicates partition type 15A at the men's and women's showers. Sheet A-800 indicates partition type 15A with 1-1/2" metal furring while the floor plan on Sheet A-450 seems to provide a chase. Please clarify if partition type 15A is correct for this location.
- A20.10. Wall type 15 shall have 5/8" Gypsum Wall Board (GWB) over 7/8" metal furring and wall type 15A shall remain as per detail.
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- Q20.11. Sheet A450 Service Area Ground Floor Plan indicates the floor of Corridor G108 with a sealed concrete finish. Will any other rooms in this area require the floors to have a concrete sealer applied?
- A20.11. All exposed concrete floors shall be sealed.
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- Q20.12. Sheet A-450 Elevator Lobby Ground Floor Plan indicates partition type 3 at the exterior wall of ETSD/IT Room G-100. Sheet A-800 indicates partition type 3 with exposed painted finish on the Side while the other 3 walls indicate partition type 15 which requires the interior to be drywall finished. Please clarify if partition type 3 is correct for this location.
- A20.12. All ETSD/IT room walls shall be insulated and receive GWB. Refer to Wall Type 1 in lieu of Wall Type 3.
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- Q20.13. Sheet A-550 Wall Sections indicate an opening height of 5'-1" at the ground floor for the aluminum mesh infill panels. Sheet A-602 indicates the height of panels P2A as 5'-3" Please correct the height of the panels to 5'-1".
- A20.13. Panels are to be 5'-1".
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- Q20.14. Building Elevations on Sheet A-550 and A-551 indicate the parking garage having a third floor while it actually has two floors. Please correct elevation.
- A20.14. The third floor is the roof. Disregard "Key" elevations on top right hand corner of sheets A-552 and A-553. Refer to sheets A-250 thru A-252 for all elevations.
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- Q22.1. Specification Section 08710 "Finish Door Hardware" includes Sheet A-600 which is not legible. The door schedule indicates some items clouded and the revision block partially filled. Sheet A-600 included with the drawings does not provide the clouded items and the revision block has been left blank. Please clarify if Sheet A-600 included with the drawings provides the correct information.
- A22.1. Yes. Refer to finish schedule in Sheet A-600 provided with the bid set drawings.
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- Q22.2. Specification Section 08910 "Louvers and Vents" specify to types of louvers "fixed blade" and "Adjustable Blades and Fixed Blades/Combination". Sheet A-603 does not

- differentiate which of the two louvers will be required. Please clarify the type of louver required.
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- A22.2. Louvers #1 and #2 are fixed blade. Please disregard all other louvers listed on Sheet A-603 and refer to mechanical drawings for size, type and location of all other louvers.
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- Q22.3 Sheet A-550 Wall Section 3 indicates a typical metal framing soffit. Please provide the framing requirements as it pertain to the framing size and gauge.
- A22.3 Soffit is not required.
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- Q22.4. Specification Section 09220 "Portland Cement Plaster" Part 1 subparagraph 1.2A specifies this specification applies to interior application of portland *[sic]* cement plaster with knocked down finish to drywall partitions and drywall surfaces in general. Please provide where this specification is applicable on this project.
- A22.4. Specification Section 09220 is not applicable.
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- Q22.5 If possible can the companies submitting RFI's *[sic]* be identified since the questions being asked do not identify the company.
- A22.5. A decision has been made to not identify the companies or individuals who submit RFIs for this solicitation.
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- Q22.6. Specification Volume II does not include specifications for Stucco. Please provide the required specification.
- A22.6. See provided Specification Section 09200 "Three-Coat Stucco System."
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- Q22.7. Sheet A-610 Finish Legend specifies the porcelain tile by manufacturer and name. Specification Section 09300 "Tile" provides a list of different manufacturers. Please clarify if the porcelain tile specified on sheet A-610 supersedes what is specified in Specification Section 09300.
- A22.7. Yes.
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- Q22.8. Architectural drawings do not indicate any room signage. Will the stair cores require signage at each level? Will the other rooms within the garage also be required to be identified with a sign? Please provide a signage list or plan identifying the required signage per Specification Section 10440 "Interior Unframed Signs".
- A22.8. All rooms shall require signage. Location is to be as required by code.
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- Q22.9. Specification Section 10505 "Metal Lockers" Part 1 subparagraph 1.2A identifies the lockers as double tier. Locker elevation on Sheet A-407 indicates four tier. *[sic]* Please confirm that the locker will be four tiers.
- A22.9. Lockers shall be four tier-types.
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- Q23.1. Sheet A-603 provides the wall louver elevations. We have reviewed the drawings and have not been able to find where the following louvers are located (L4, L6, L9, L11, L12, L13, L14). Please provide their respective locations.
- A23.1. Please disregard all listings for louver types on Sheet A-603 and on the floor plans, except for L1 and L2. All louver types and sizes shall be as listed in the mechanical drawings.
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- Q23.2. Sheet C-002 "Asphalt Demolition Plan" indicates demolition asphalt pattern within the NIC area. Please clarify if the existing asphalt within the NIC area is to be removed or does it remain.

A23.2 The asphalt pavement condition that is not in contract (NIC) will remain in place.

Q23.3. We have reviewed all the Civil Drawings (C-Sheets) and have observed that many portions of the services required for the future not in contract building are indicated outside the NIC area and some of the work required for the new parking garage is within the NIC area. Examples:

1. Sheet C-201 indicates yard drains (YD) 4 & 5 are within the NIC area but the pipe connecting to the storm drain SD-10 is out of the NIC area. Will the storm drain line outside the NIC area connecting to storm drain SD-10 be included as part of this contract?
2. Sheet C-201 "Grading and Drainage Plan" indicates the approach entrance to the future proposed Judges Parking. Please confirm that the approach will be part of this contract.
3. Sheet C-301 "Water and Sewer" plan indicates a 6' sanitary line SW corner of the proposed courthouse building outside the limits of the NIC area. The 6' sanitary line services exclusively the proposed courthouse building. Will the sanitary lateral outside the NIC area connecting to the existing 8" sanitary line be included as part of this contract?
4. Sheet C-301 "Water and Sewer" plan indicates two 4" sanitary line lateral being connected to a 4"/6" sanitary line which connects to an existing 8" sanitary line on N.W. 23rd Avenue. It is clear that the 4" sanitary will be required as part of this contract but is drawn within the NIC area. For clarity and to avoid bidders leaving out this portion of work please indicate the line outside the NIC area.
6. Sheet C-301 "Water and Sewer" plan Detail "A" indicates portions of the work inside the NIC area. Please clarify what is in contract.
7. Sheet C301 "Water and Sewer" plan indicates Fire Department Connection (FDC) on the south side of the proposed courthouse building. The FDC which will serve the future Courthouse Building is shown outside the NIC area. Will the FDC be part of this contract?

- A23.3.
1. No. None of the utility or drainage system inside the NIC is included unless otherwise noted.
 2. No. None of the civil work inside the NIC area is included unless otherwise noted.
 3. No. The 6" sanitary line serving the old courthouse building is not part of this contract.
 4. The limits of the NIC area will be reduced to show the sanitary line servicing the parking garage as part of this contract.
 6. Detail "A" is not part of this contract.
 7. No. Fire Department Connection is not part of this contract.

Q23.4 The Architectural Drawings, Civil Drawings as well as the Landscape Drawings depict different scope as it pertains to the new picket fence and gates. Due to the discrepancies as outlined below and not having a drawing which depicts the complete scope as it pertains to the new fence and gates. Please clarify the as it pertains to the new picket fence/gate scope.

1. Sheet C-100 indicates a proposed 6' high fence & gate within the NIC area and refers to the architectural drawings for more information. Will the fence and gates within the NIC area be required under this contract?

2. Sheet C-100 indicates new fence running east along N.W. 54 Street for an approximate distance of 120 feet. Please clarify if our assumption is correct.
3. Sheet C-100 indicates a new pedestrian gate at the N.W. 56 Street entrance and the existing gate being relocated. It is not clear where the vehicular and pedestrian gates are to be located including the new portions of fence on either side of the vehicular gate. Please provide a drawing indicating with clarity the locations of the gates, new fencing and the tie in point to the existing fence.
4. Sheet C-100 indicates a new pedestrian gate but door schedule on Sheet A-600 does not identify this gate. Please provide the size of the gate.
5. Sheet L-3.2 "Fence Plan" indicates a section of fence and gate in the NIC area it also indicates approximately 30 ft. of new fence running east along N.W. 54 Street and turning 15' tying into the existing fence. This contradicts what sheet C-100 indicates. Please clarify which condition will govern.
6. Sheet A-100 indicates a manually operated aluminum gate at the N.W.54 Street entrance. The notes require matching the existing fence & gates to the existing fence which is not aluminum but galvanized steel. Please clarify if this gate is to aluminum or steel.
7. The drawings do not indicate the required finish to the new picket fence and gates. It seems that the existing fence was field painted. Please clarify what finish which will be required for the new fence and gates.
8. Sheet A-100 indicates a manually operated gate at NW 54 Street but does not indicate the relocated vehicular and new pedestrian gate at the NW 56 Street nor does it indicate the new tie in fence at the NW corner of the garage building as indicated on Sheet C-100. Please revise Sheet A-100 to indicate these additional areas.

- A23.4.
1. See provided drawing for fence boundary/scope and additional information.
 2. See provided drawing for fence boundary/scope and additional information.
 3. See provided drawing for fence boundary/scope and additional information.
 4. See provided drawing for fence boundary/scope and additional information.
 5. See provided drawing for fence boundary/scope and additional information.
 6. All new site perimeter fencing shall match existing site perimeter fence in appearance, material, height and color/finish, etc.
 7. All new site perimeter fencing shall match existing site perimeter fence in appearance, material, height and color/finish, etc.
 8. Refer to Sheet C-100 for information regarding these gates.

Q23.5. Sheet IR-1.0 indicates on the South side of the parking garage the 1" line outside the limits of work. For clarity and to avoid bidders leaving out this portion of work please clarify that the 1" line is to be included as part of the Contract.

A23.5. Yes. Irrigation line is part of this contract.

Q23.6. Sheet L-5.0 indicates two areas with the bollard "G" letter. Three are identified with a dot while the other location does not provide the dot symbol. Please clarify how many bollards type "G" will be required.

A23.6. Please refer to sketch provided in Addendum No. 2 regarding bollards.

Q23.7. Sheet L-5.2 Bollard detail indicates 3" pipe inside the concrete bollard. Please clarify if this pipe is an integral part of the bollard and therefore will be supplied by the bollard

manufacture or will the bollard be required to be provided by others. If provided by others please specify pipe material and pipe schedule.

A23.7. Please refer to sketch provided in Addendum No. 2 regarding bollards.

Q23.8. Please clarify if the Landscape trade will be required to be a CSBE firm.

A23.8. Landscaping is not a CSBE trade and, therefore, cannot be utilized to meet an established CSBE Goal.

Q24.1. Sheet S-203 "Wall Schedule" designates the reinforced masonry with designation "BW-XXX" [sic] We have reviewed the structural drawings and have not been able to find the masonry wall designations listed on Sheet S-203 with exception to the 42" high walls at Storage Room 110 which are designates as BW-548. Structural General Note # 7 illustrates a typical masonry wall with vertical reinforcing as "Non- Bearing". In addition it states "all walls shall be BW-824 except for the walls within 15'-0" of building corners shall be BW-816. Please confirm/clarify the following:

1. Unless otherwise noted all masonry walls shall have designation wall type BW-824.
2. Walls within 15'- 0" of building corners shall have designation type BW-816.
3. Where do masonry walls designated with type BW-748 and BW-840 occur?

A24.1. 1. Confirmed.

2. Confirmed.

3. They occur in Sheet 152 and Sheet 153, Note 4.

Q24.2. Sheet S-203 "Wall Schedule" provides an asterisk next to wall types W-3 and W-4. Asterisk designates "Fill cell with concrete and vertical steel". We have reviewed the referenced details on Sheet S-301 and do not see how the asterisk applies to these wall types. Please confirm if the asterisk should be removed from wall types W-3 & W-4.

A24.2. The asterisk notation does not apply.

Q24.3. LS-Drawings do not indicate which fire extinguisher cabinets are semi-recessed or surface mounted. Please Clarify.

A24.3. Fire extinguisher cabinets shall be semi-recessed into the concrete masonry unit (CMU) walls.

Q24.4. Sheet A-351 Building Section B-B indicates the underside of the parking decks to be painted. Please clarify if this will be required. If required, will the joist also be painted the same color?

A24.4. Painting of the underside of the parking deck shall not be required.

Q24.5. Garage Doors marked G121, G125 & G126 as shown on Sheets A-150 & A-151 would indicate the doors to be Sectional Overhead Doors. Please clarify is these doors are to overhead [sic] doors specified under specification section for overhead doors.

A24.5. Yes.

Q24.6. Specification Section 07190 "Water Repellents" Part1, Paragraph 1.02A provides what areas are to receive this product. We believe by applying this product to the stucco surface before painting would act as a bond breaker for the paint. Please clarify what surfaces are to receive water repellent (i.e. exposed block non painted, exposed block painted, exposed concrete etc.)

A24.6. Surfaces receiving paint finish shall not receive water repellent.

Q24.8. Sheet A-600 Door Schedule or Specification Section 08710 do not specify the required hardware for the sliding gates or swing gates. Please provide all required hardware for these gates.

A24.8. Sliding gate hardware information is listed on Sheet A-100. Swing gates shall use hardware type G11.

Q24.9. Sheet S-202 Detail "H" states corner guards are to be installed at all columns that are exposed to vehicular traffic unless otherwise noted. This statement is too "broad", essentially a; columns at every level of the parking garage "could" be considered or interpreted as been exposed to vehicular traffic. Please clarify is only those columns which are isolated and stand-alone within the parking garage will require corner protection. For instance column located on the ground floor where grid line "2" intersects with grid lines B&D on Sheet S-150. If these are the typical columns requiring corner protection this condition would be limited to only (21) columns on the ground floor and (5) columns on the 2nd. Please identify the concrete columns which will require edge protection.

A24.9 All columns that are exposed to vehicular traffic as stated on Sheet S-202 shall receive corner guards. This applies to columns located in areas where there is moving vehicular traffic as in traffic lanes and driving areas, but not in stationary vehicle areas as in parking stalls.

Q24.10. Sheet S-153A requires a secondary topping slab on the second floor garage level Retail Space 1 G105. Detail "B" on Sheet S153A requires this area to be waterproofed before the pouring of the secondary slab and refers to architectural drawings. Architectural drawings do not indicate any reference to the secondary slab nor the required waterproofing material that is to be applied. Please specify the waterproofing manufacturer and product that is to be installed for this application.

A24.10. Provide bentonite waterproofing between the two slabs as per specification Section 07130.

Q24.11. Sheet S-202 Detail M indicates a steel bollard detail and refer *[sic]* to coordinate with architectural drawings. We have reviewed the architectural drawings and have not been able to locate this detail applies. Please provide the locations where the steel bollards are to be installed.

A24.11. Refer to Sheet L-5.0 regarding locations of steel bollards (five in total near entrance to parking garage). Please refer to sketch provided in Addendum No. 2 regarding bollards.

Q24.13. Sheet S-151 does not indicate wall designations to the interior walls at Rooms G108, G110, G112, G113, G114 and G115 with exception to the 42" high masonry walls. Sheet A-450 indicates these walls as masonry. Please provide masonry wall designation as indicated on Sheet S-203.

A24.13. See attached "Partial Foundation Plan (South)."

Q24.14. Contract drawings require the installation of a new picket fence replacing the existing fence. The new fence shall match the existing fence in appearance, material, height, color/finish, etc. The drawings do not provide the size of the required post foundations for this fence. Please provide post foundation requirements.

A24.14. See attached Fence Footing Details and Fence Plan.

Q24.15. The Contract Drawings do not indicate or require the removal of the existing post foundations for the perimeter property fence required to be removed. Unless otherwise

clarified, our bid will consider cutting the fence post six inches below grade and leaving the existing foundations abandoned in place.

A24.15. All fence post foundations shall be removed.

Q24.16. Sheet A-150 through Sheet A-157 indicates that the ramps and each individual floor levels [sic] With note "Sealed Concrete Deck". Specification Section 07185 "Vehicular Traffic Deck Waterproofing" Part 1, Paragraph 1.01A states "Provide a complete polyurethane waterproofing coating system where indicated on the drawing at locations indicated." The drawings do not indicate to provide a vehicular traffic deck waterproofing material as specified in Specification Section 07185. The drawings by referencing "Sealed Concrete Deck" implies [sic] that the ramps, floor level and roof level would be required to be sealed. A concrete sealer is not polyurethane waterproofing product as such specification section 07185 is not applicable to this application. This can be achieved by providing a liquid applied transparent concrete sealer. If the requirement is to provide the "Vehicular Traffic Deck Waterproofing" material on all ramps, floors roof level, this would need to be clarified. It is customary to have the roof level (i.e. level exposed and open to the inclement weather) to have vehicular waterproofing. The cost associated in providing all ramps, floor decks and roof deck with the waterproofing material as specified in Specification Section 07185 is extreme (\$3.40/SF.). Please clarify what product is to be applied to those areas on the drawings which state "Sealed Concrete Deck". We have been informed waterproofing suppliers that the vehicular traffic coating specified in Section 07185 is not a "Sealer". Unless otherwise clarified, our bid will include applying a liquid transparent concrete sealer to all ramps, floor levels and roof level.

A24.16. Vehicular traffic deck waterproofing shall be applied to the roof and top ramp parking areas that are exposed to the elements. All other areas shall be sealed concrete deck as listed on drawings.

Q24.17. Contract Documents have not provided a fire flow test. It is customary for the Owner to provide the fire flow test. As the EOR is aware, the fire flow test will be required in order to provide fire protection calculations. Please provide the fire flow test. Unless otherwise provided, our bid will not include the costs associated with obtain a fire flow test.

A24.17. Please refer to Sheet FP-000.

Q24.18. Sheet FP-150 indicates (2) two 6" underground lines exiting Fire Pump Room G101. One line Terminates at a 2-Way Fire Department Connection (FDC) while the underground line terminates after the inline PIV and Backflow Preventer, to be continued on Sheet C-301. Sheet C-301 indicates only one (1) 6" underground line exiting Fire Pump Room G101and having the Fire Department Connection, PIV and Backflow Preventer all inline. Please coordinate these drawings and provide which of the two proposed options will apply. Unless otherwise clarified, our bid will consider the option as indicated on Sheet C-301.

A24.18. Piping as indicated on FP-150 is correct. The line for the Fire Department Connection shall come from the Fire Pump Room.

Q24.19. Specification Section 15410 "Piping (Plumbing)", Part 3. Paragraph N "Piping Material by System" Subparagraph 1(a) list three acceptable materials for the Aboveground Sanitary Soil, Waste, and Vent Piping (i.e. PVC, Cast Iron or DWV Cooper [sic]). Neither the Plumbing Drawings nor Plumbing notes on Sheet P-000 indicates which of the three pipe [sic] material will be required? Unless otherwise clarified, our bid will include PVC for the aboveground Sanitary Soil, Waste, and Vent Piping.

A24.19. Drain Waste and Vent (DWV) copper piping is only applicable to branch arms less than 2" in diameter. Aboveground piping can be either Polyvinyl Chloride (PVC) or Cast Iron.

Q24.20. Specification Section 15410 "Piping (Plumbing)", Part 3. Paragraph N "Piping Material by System" Subparagraph 3 "Storm Drainage Piping" states "Same as for sanitary system". The above ground Sanitary Soil, Waste, and Vent Piping list three acceptable materials (i.e. PVC, Cast Iron or DWV Cooper). Neither the Plumbing Drawings nor Plumbing notes on Sheet P-000 indicate which of the three pipe material will be required? Unless otherwise clarified, our bid will include PVC for the aboveground Storm Drainage Piping.

A24.20. Aboveground piping can be either PVC or Cast Iron.

Q25.1. Sheet A-151 indicates a storefront system on the south side of the parking garage with designations labeled W3 and W4. Please provide clarification to the rough opening height as it pertains to these storefront/window types.

- a. Sheet A-602 storefront/window elevations indicate the sill beneath mark W3 & W4 (excluding the double door) having a height of 6". Sheet S-301 Section # 1 indicates a sill height of 8". Please provide what sill height will be required.
- b. Sheet S-301 Section # 1 indicates a sill height of 8" beneath the storefront/window system. Sheet S-153 indicates second floor beams (P2B-43, P2B-44 and P2B-45) above the storefront/window sections being 34" in depth with the top of the beams at 11'-0" and the bottom at 8'-2" leaving the overall rough opening height of 7'6". The window/storefront elevation on Sheet A-602 indicate an overall height of 8'-8" thus the window/storefront system will not fit into the 7'-6" rough opening height by 14". Please revise the dimensions accordingly in order to be able to accommodate the storefront/window height.

A25.1. a. Sill height shall be 8" as per structural drawings.
b. The floor elevation at that end of the building is at -1'-0" as per Section #9 on Sheets A-552 and A-553. The overall height of the storefront is 8'-6" since the sill is set at 8" (instead of 6").

Q25.2. We have reviewed the structural drawing and the following areas do not indicate an impact Wall (W-2) as being required please confirm the following:

- a. Will there be an impact wall required on the two walls facing the interior of the parking garage at the ETSD/IT Room G120 on the ground floor?
- b. Will there be an impact wall required on the two walls facing the interior of the parking garage at the Elevator Control Room G119 on the ground floor?
- c. Will there be an impact wall required on the two walls facing the interior of the parking garage at the ETSD/IT Room G205 on the second floor?
- d. Will there be an impact wall required on the two walls facing the interior of the parking garage at Elevator Lobby G200 on the second floor?

A25.2. a. No, an impact wall is not required.
b. No, an impact wall is not required.
c. No, an impact wall is not required.
d. No, an impact wall is not required.

Q26.1. Volume I Section 00330 "Information Available to bidders" provides various attachments which need clarification. Please clarify the following items:

- a. One of the attachments is titled "Renovation Asbestos Survey" does this attachment applies to this project?

- b. One of the attachments is titled “Geotechnical Exploration-Pedestrian Bridge and Renovation to Existing Atrium” does this attachment applies to this project?
- A26.1. a. “Renovation Asbestos Survey” does not apply to this project.
- b. “Geotechnical Exploration-Pedestrian Bridge and Renovation to Existing Atrium” is not specifically related to the parking garage project, but it does provide soil information in the vicinity of the project site. It is included as reference only.
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- Q26.2. Volume I Section 00330 “Information Available to Bidders” provide *[sic]* an attachment titled Geotechnical Exploration-The Joseph Caleb Center New Courthouse & Parking Garage”. Please provide clarifications to the following questions:
- a. Section Test Boring Results indicates the site or part of the site was an old pit filled with non-uniform, uncontrolled fill materials. Test pits were performed to further characterize the un-controlled material. The test results revealed concrete debris, glass, wood fragments and steel bars to a depth of at least 9 feet. Please clarify if contaminated soils or water is encountered during construction will the Owner be responsible in paying all costs based on the DERM requirement to remove the contaminated soil from the site and dewater the contaminated water. It is impossible to determine the cost involved before submitting the bid unless provided with the required parameters. It is our recommendation if contaminated soils/water are expected the Bidders be provided an Allowance Cost to perform the decontamination.
- b. Section “Augercast Piles” provides recommendation requiring “a minimum penetration of 10 feet into the component lower limestone formation should be attained at the pile locations. Based on the test borings, overall tip depths will range between 40 to 50 feet below existing grade. The General Information section of this report states “No pile shall have tip elevation higher than the recommended elevation without contacting Nutting Engineering”. Please confirm is these are recommendation *[sic]* or are they requirement. In addition please confirm if the overall tip length exceeds the requirements will the Owner be responsible to pay for the additional pile length footage.
- c. Section “Site Preparation” provides recommendations as to stripping of the site, densifications of the structure area prior to placement of new fill including the compaction recommendations. Please confirm if these are recommendation *[sic]* or should they be considered a project requirement.
- d. Section “Fill Placement” provides the fill placement requirements. Please confirm that these requirements are to be followed as written in this section. In addition, it states “New fill material must be placed under the engineering supervision of a Geotechnical Engineer”. Please clarify who will be responsible to employ and pay the services of the Geotechnical Engineer?
- e. Section “Pile Installation” provides the testing procedure and recommendations for the augercast pile installation. Please confirm that these requirements are to be followed as written in this section. In addition it states “It is recommended that piles be installed under a continuous monitoring by a qualified geotechnical engineer”. Please clarify who will be responsible to employ and pay the services of the Geotechnical Engineer?
- f. Section “Pavement” recommends that a geogrid (Tensar BX1100 or equivalent) layer be placed between the base coarse and sub base material to aid in the performance of the pavement structure. Sheet C-110 New Asphalt Pavement Typical Section (Including type “D” Curb) and Typical Driveway Section B-B not indicate the geogrid layer. Please clarify is all areas with new asphalt pavement

(Bituminous Concrete) are to have the geogrid fabric installed between the base coarse and subbase material.

- g. Section "Proofrolling Operations" provides the proofrolling requirements. Please confirm that these requirements are to be followed as written in this section.
- A26.2.
- a. In anticipation of the presence of contaminated soil/water at the project site, Section P-160 "Contaminated Soil/Groundwater" and Section 00300 "Proposal Form" (Revised 11/12/13) were included in Addendum No. 2, issued on 11/12/13.
 - b. Please refer to attached Specification Section 02371 "Auger Cast Grout Piles."
 - c. Please refer to Specification Section 02230 "Site Clearing," included in the bid documents.
 - d. Please refer to Specification Section 02300 "Earthwork," included in the bid documents.
 - e. Please refer to attached Specification Section 02371 "Auger Cast Grout Piles."
 - f. Please refer to project specifications per Division 2.
 - g. Please refer to project specifications per Division 2.

Q26.3. Specification Section 01010 "Summary of Work" Part 1, subparagraph 1.5A and 1.5A.1. state the Owner will provide, under a separate contract, the following items: Art-in-Public Places installation within the Parking Garage Building. The work may include landscaping, walkways, crosswalks and aluminum security mesh panels/doors. Please confirm that these scopes of work are not to be included in the bid price and will be performed under a separate contract or if these scopes are to be included in the bid please provide what means will be used in deleting the scope or scopes from the Contract.

A26.3. Art-in-Public Places installation within the Parking Garage Building is not to be included in the bid price.

Q26.4. Specification Section 01042 "Art in Public Places Coordination" Part 1, Subparagraph 1.1A describes the potential areas for Artist innervation it further states the General Contractor is to provide the cost of these items as ALTERNATES as part of the proposal. We have reviewed the Proposal Form and find that there is not a space provided to list these alternates. Please revise the Proposal Form accordingly.

A26.4. There are no alternates related to Art in Public Places that are to be included in the bid price.

Q26.5. Specification Section 08411 "Aluminum Framed Entrances and Storefronts" Part 1, Subparagraph 1.3A.6. lists the thermal performances requirements. This paragraph requires a U Value of 0.44 and a SHGC Value equal or less than 0.40. This contradicts the requirements specified on Sheet A-600 glazing note #4. Please clarify which will govern.

A26.5. Specification Section 08411 will govern. Please disregard glazing note #4.

Q27. Please see clarify the Architectural Grills on sheet A-150. Per sheet A-550 the details call for "Anodized Alum.Frame and Architectural Mesh Enclosure Panels. 2" Square Opening (.0250) Architectural Wire Mesh with 79% Open AreaLock Crimp SquareWeave (See Detail No. 35 Sheet A-801)". Detail No. 35 on Sheet A-801 does not give the pattern or Architectural Intent. The specifications for the Ornamental Metal do not give a basis of design. On Sheet A-600 the mesh is called out as "Graph" by Cambridge Architectural, however, this does not meet the requested requirements. Graph is a Stainless Steel mesh with only 25% Free Area.

- A27. Architectural mesh enclosure shall be as per note listed on wall sections A-550. Pattern shall be 2" square as per note.
-
- Q28. Please clarify the louver count required on sheet A-603; the schedule shows a larger number of units than located and/or detailed on the plans.
- Number of units located on plans, as follows:
- L1 = 1
 - L2 = 1
 - L5 = 5
 - L7 = 2
 - L8 = 1
 - L10 = 1
- A28. Refer to Sheet A-603 for louvers #1 and #2. Disregard all other louvers listed on this sheet and refer to mechanical drawings for size, type and location of all other louvers.
-
- Q29. On electrical drawing page E152 the photometric layout shows Type "A" fixtures and provides a schedule for it, however, type "A" is not listed on the general lighting schedule provided on page E001. Is type "A" additional to those fixtures or is it a type and should be classified as type "D2" which is the main fixture shown on the lighting drawing page E150.
- A29. No. All normal power lighting fixtures in the parking garage space are Type D2 as indicated in the Lighting Fixture Schedule. All emergency lighting fixtures in the parking garage space are Type D2E with an emergency battery pack as indicated in the Lighting Fixture Schedule.
-
- Q31. Please clarify the following items as the information was not detailed on the plans.
1. Sheet A – 351 indicates Bentonite waterproofing membrane to be installed at all poured and CMU foundation walls, retaining walls and elevator pit walls (surfaces noted are all vertical surfaces). The Technical Specifications section 07100 indicates in section 3.03, Installation – Membrane, A. Install membrane waterproofing either vertically or horizontally with Bentonite facing the concrete according to manufacturer's recommendations and instructions, including proper substrate preparation. Please clarify if horizontal surfaces such as the underside of the parking garage ground floor slab, but not limited to *[sic]* are to receive *[sic]* bentonite waterproofing in addition to vertical surfaces. Please define all surfaces that are to receive Bentonite waterproofing membrane.
- A31. 1. Bentonite waterproofing must be provided on vertical and horizontal surfaces at concrete masonry units (CMU) foundation walls, retaining walls, and elevator pit walls and slabs.
-
- Q32. Please clarify the following items as the information was not detailed on the plans.
1. Sheet A – 151 and A – 450, Ground Floor Plan shows room G114 (south of column grid line M) as Storage. Sheet A – 158 indicates the same space to be the generator room. Please clarify.
 2. Sheet A – 551, wall section 5 shows the louver at the generator room. It further indicates "Refer to the MEP Plans and to Elevations for finishes and colors." Sheets A – 251 and A – 551, west elevation show the louver at center line of column grid line N, but do not indicate finishes and colors requirements. Sheet A – 603, #8 Louver Types does not provide the information. Sheet M – 150 Room G114 indicates louver by Arch. Please clarify and provide information.

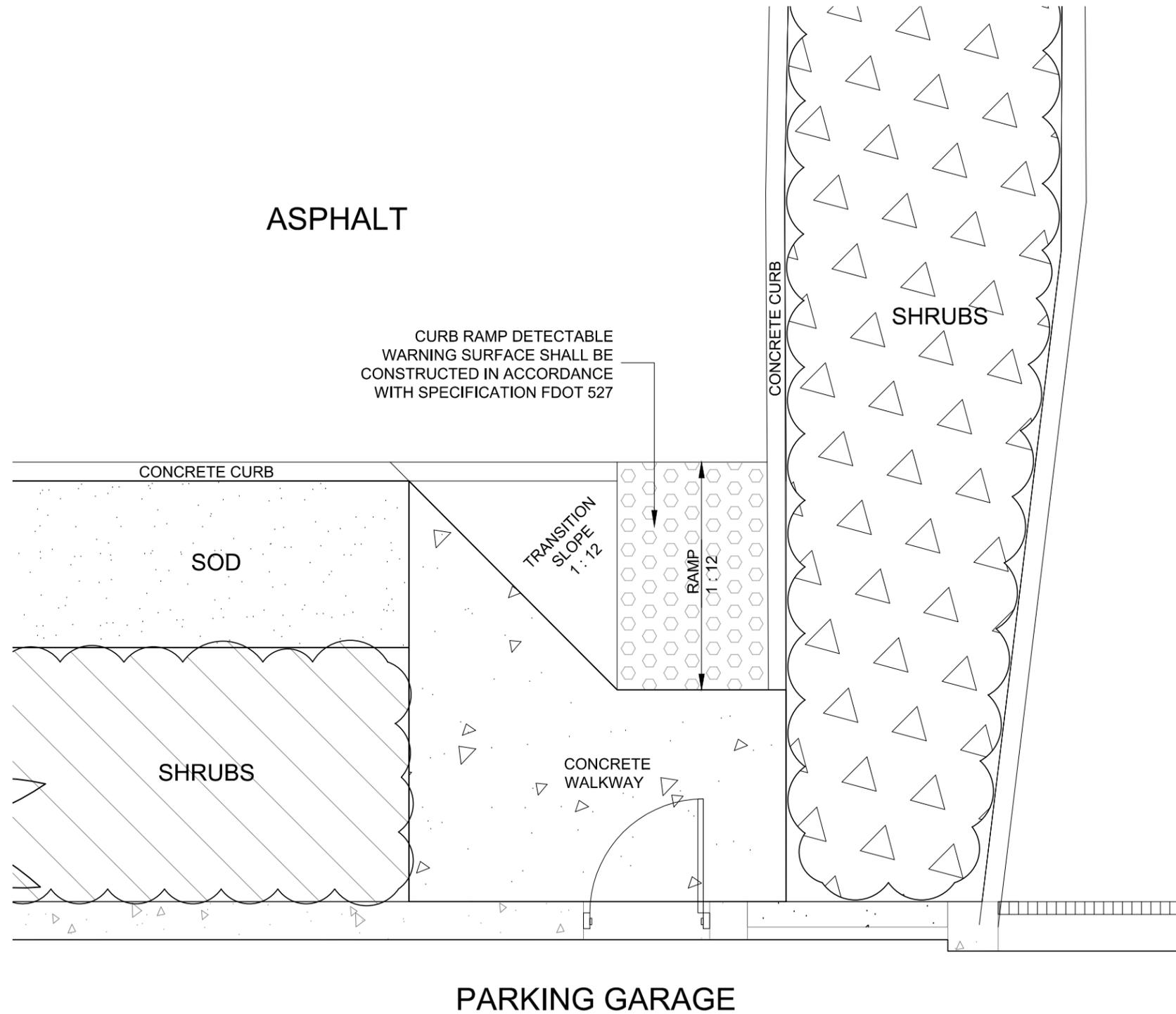
- A32. 1. Yes, Room G114 is a storage room.
2. Refer to Sheet A-603 for information for louvers #1 and #2. Disregard all other louvers listed on this sheet and refer to mechanical drawings for size, type and location of all other louvers.
-
- Q33. Please clarify the following items as the information was not detailed on the plans.
1. Sheet A-604, detail #10 indicates a parapet cap to be metal coping assembly, no further information is given. Is the metal coping to be galvanized metal or stainless steel? What gauge? Please provide all information and requirements as well as all materials requirements.
- A33. 1. Parapet metal coping not required. Parapet top to be concrete sloping 1/4" per foot to internal part of roof with fluid applied waterproofing similar to wall section #8 on Sheet A-552.
-
- Q34. Please clarify the following items as the information was not detailed on the plans.
1. Sheet L – 2.1 North side of the parking garage shows a door (door #117 in sheet A – 150) exiting into an area designated as sod (PAN), a handicapped flared curb ramp graphic symbol is also shown in the area shown as sod. Please confirm that the intent is for the door from the parking garage to open and exit unto a sod area and not a concrete area / flatwork.
- A34. 1. See attached "North Side Parking Emergency Exit Paving Detail – No. 117."
-
- Q36. Please clarify the following items as the information was not detailed in the Documents. General Conditions Section 01025, Section I, 1.c indicates "Transmittal of required project construction records, including "as-builts" [sic] drawings to Owner. Please confirm that the requirements for as-builts [sic] submittal will be the red line set kept at the project site. If there are any additional requirements beyond this set please provide information.
- A36. No. The Contractor is to provide the "Field Record Set" (red-lined set) to the Consultant at the end of the project as part of the closing documents submittal.
-

Attachments:

- Fence Footing Details, dated August 12, 2013
- Fence Plan, dated May 30, 2012
- Partial Foundation Plan (South)
- North Side Parking Emergency Exit Paving Detail – No. 117
- Specification Section 02371 "Auger Cast Grout Piles"
- Specification Section 09200 "Three-Coat Stucco System"

ALL OTHER PROVISIONS OF THE ORIGINAL INVITATION TO BID REMAIN UNCHANGED.

cc: Tara C. Smith, Acting Division Director, ISD
Jerry Hall, Division Director, FUMD, ISD
Fernando V. Ponassi, MA Arch., LEED®AP, Manager, ISD
Humberto J. Contreras, Manager, ISD
Edgar Lugo, CGC, LEED®AP, Project Manager, ISD
Bermello, Ajamil and Partners, Inc.
Clerk of the Board



05
L-5.3

NORTH SIDE PARKING EMERGENCY EXIT PAVING DETAIL

SCALE: N.T.S.

SECTION 09200 – THREE COAT STUCCO SYSTEM

PART I –GENERAL

1.01 SUMMARY

A. Provisions of Division 01 apply to this section

B. Section Includes:

1. Water-resistive barrier (WRB)
2. Lath and portland cement plaster or (“Stucco”) as indicated on drawings.
3. Portland cement scratch coat as a substrate for ceramic wall tile.

C. Related Sections:

1. Section 06100: Rough Carpentry
2. Section 09100: Metal Support Assemblies & Suspended Ceilings
3. Section 09250: Gypsum Sheathing
4. Section 09300: Ceramic Tile

1.02 DEFINITION

A. Three coat (7/8 inch) Plaster Assembly over Framing:

Silicone core/fiberglass face or wood based sheathing (per APA) exterior sheathing board, with one sheet of a self-adhered flashing (SAF) applied at all horizontal surfaces, under two sheets of black grade “D” building (kraft) paper as a weather-resistive barrier, galvanized plaster accessories, metal lath, a conventional plaster scratch and brown coat meeting ASTM Standard C 926, with an integrally colored finish.

B. Two-Coat (5/8 inch) plaster over CMU substrate:

A 3/8” to 5/8” ASTM C 926 Basecoat directly applied to properly-prepared concrete masonry units, with an integrally colored finish. A metal lath (no WRB) is required for applications over 5/8 inch thick.

1.03 DESIGN REQUIREMENTS

A. Provide portland cement plaster assemblies meeting International Building Code (IBC), American Society of Testing Materials (ASTM) and Technical Services Information Bureau (TSIB) requirements and/or recommendations for a nominal 7/8 inch cement plaster.

B. Contractor shall install a complete portland cement plaster “stucco” assembly including all the equipment, materials and labor necessary as indicated on drawings.

C. Contractor shall not assume design authority and shall request and/or inform Architect of any design deficiencies that may have a deleterious effect on the plaster assembly.

1.04 SUBMITTALS

A. Product Data: Submit manufacturer's data sheets of all products to be installed, describing product size, finish and verify compliance with code or approval (i.e., ICC Evaluation Report.). Do not proceed until submittals are approved in writing by Architect.

B. Samples: Submit actual samples of all trim accessories to be installed (control joints, expansion joints, corner reinforcement, reveals and screeds)

C. Certificates: Provide certificates of any proprietary materials and/or systems to be installed for the product and that contractor is approved by manufacturer to install that product.

D. Submitted sample: Contractor to submit a 24 inch x 24 inch sample of portland cement plaster with representative sample of workmanship, color and texture. Once approved by Architect, sample shall remain on project site for reference until project is complete.

E. Site Mock-Up: Contractor shall install a mock-up on site that includes and demonstrates cement plaster to window transition with a flashing a penetration. In addition or may be same mock-up a control or expansion joint installation. The site mock may be part of the building, do not proceed until Architect has approved the flashing procedure. Do not alter from the established procedure unless approved by Architect.

1.05 QUALITY ASSURANCE

A. Contractor shall be licensed, bonded and financially sound to complete project.

B. Contractor shall meet the following requirements:

1. Specialize in the scope of work, Lathers and Plasterers employed shall have completed a State-approved apprenticeship program for Lathing and Plastering. Apprentices shall be currently enrolled in such program.

2. Contractor shall be able to meet scheduling requirements set at time of bid.

3. Document experience in quality work of similar scope.

4. Member in good standing of the Western Wall and Ceiling Contractors Association

(www.wvcca.org) or have a verified state approved apprenticeship program for lathers/plasterers.

C. Comply with the following Standards:

1. ASTM C 1063- Installation of Lathing and Furring to Receive Portland Cement Plaster

2. ASTM C 926- Application of Portland Cement Plaster

3. International (or local) Building Code (most current edition)

4. Technical Service Information Bureau (TSIB) Technical Bulletins and “Plaster Textures & Acrylic Finishes” brochure.
5. Manufacturer’s recommendations of products used.
6. Plaster Assemblies Manual (most current edition)

D. Inspection: TSIB may be requested to provide visual walk of completed lath prior to application of cement. WWCCA Contractor agrees to follow any and all recommendations directed by the TSIB.
WWW.TSIB.ORG

E. OSHA and/or CAL/OSHA requirements where apply

PART 2 – PRODUCTS

2.01 SHEATHING

- A. Comply with Division 9 Section “Gypsum Sheathing”.
- B. Wood-based sheathing: to comply with Engineered Wood Association (APA)

2.02 LATH AND RELATED ACCESORIES

- A. Water-resistant barrier (WRB) shall be minimum 60 minute water resistive Grade D and comply with Fed. Spec. UU-B-790a. Alternate WRB must be approved by the Architect.
- B. Self Adhered Flashing (SAF) must be compatible with the WRB, minimum 25 mils thick, self sealing and waterproof. Alternates must be approved by Architect.
- C. Cold-Rolled Channel (CRC): 1 ½ inch and ¾ inch with a minimum of 33,000 psi yield strength and a minimum of .0538 inch bare steel thickness, comply with ASTM A 653.
Note: For suspended soffits and ceilings use 1½ inch CRC as main carrying channels and ¾ inch CRC as cross furring.
- D. Lath: Type and style appropriate use. Paper-backed lath must be approved by Architect prior to use.
 1. Expanded metal: Galvanized diamond mesh, 3.4 lbs/sy, self-furred, complying with ASTM C 847 (For metal framing, concrete and/or masonry substrates)
 2. Woven Wire: Galvanized, self-furred, 17 gage with openings not to exceed 1½ inch, complying with ASTM C 1032. Not for use on cold formed framing, concrete or masonry substrates. (For wood framed walls).
 3. Welded Wire: Galvanized, self-furred, 17 gage with openings not to exceed 1 ½ inch, complying with ASTM C 933. Not for use on ceilings (unless specifically designed), concrete or masonry substrates. Maybe used over metal framed walls provided the product is specifically designed for that purpose.
- E. Lath Accessories: Steel accessories to conform with ASTM C 653, aluminum from extruded alloy 6060 T5.

1. Foundation Weep Screeds: Minimum 26 gage galvanized steel with a 3 ½ inch attachment flange. Must be type that is designed to allow moisture to weep out. Industry generic name- #7 Weep Screed.
2. Control Joints: Single-piece minimum 26 gage galvanized steel with a flange designed to engage plaster. Grounds to provide full 7/8 inch thickness of cement plaster. Industry generic name- XJ -15
3. Expansion joint: Two-piece joint designed to allow for movement in multiple directions. Made from aluminum or galvanized steel (see drawings for profile and material designation) Industry generic name- #40 2-piece joint.
4. Drip Screed: Minimum 26 gage galvanized steel with ground and holes to allow for drainage. Industry generic name #10 Drip.
5. Casing Beads: Minimum 26 gage galvanized steel with 7/8 inch grounds. Expanded flange casing beads to be approved by Architect. Industry generic names: Milcor, J-mold or #66.
6. Reveals: Size, shape and profile as designated on drawings. Actual sample must be submitted for approval. Aluminum reveals shall have 4 – way intersections shall be factory mitered. Contractor to use intersection and termination clips as supplied by manufacturer.
7. Corner reinforcement: Welded wire corners made from galvanized steel. Square or “Bullnose” as per drawings. Plastic or (PVC) nose bead shall be used when an acrylic finish coat is used in lieu of a cement finish coat.
8. “Butterflies”: 5 inch by 16 inch strips of metal lath or cornerite. Or strips of fiberglass reinforcing mesh embedded into base/skim coat. As an alternate, furring nails/screws around doors and windows. (Select one)
9. Fasteners: All fasteners shall be corrosion resistant, delivered in sealed packages and clearly labeled
 - a. Wire: shall be galvanized annealed and 18 gage or 16 gage as appropriate for use, comply with Federal Spec. FSQQ-W-461g.AS.
 - b. Screws: Wafer head “lathers” Type S with length that penetrates steel not less than 3/8 inch or into wood framing 5/8 inch Comply with ASTM C 1002 and/or ASTM C 954
 - c. Nails: Galvanized 11 gage with a 3/8 inch diameter head and a length to penetrate wood framing (exclusive of sheathing) minimum ¾ ”inch. Comply with FS FF-N-105
 - d. Staples: Galvanized 16 gage with a minimum ¾ inch crown and legs that penetrate wood framing (exclusive of sheathing) minimum 3/4 inch. Comply with FS-FF-N-105.
 - e. Powder Actuated Fasteners: for concrete and masonry substrates only. Comes with a factory washer (disc) and shall have manufacturer’s recommendation for the specific use intended. Must demonstrate a minimum 50 pound pull out value, not less than ¾ inch long and is a head diameter of 3/8 inch wide.

2.03 PLASTER AND RELATED MATERIALS

A. Portland Cements:

1. "Common" Cement Type I/II or III , Comply with ASTM C 150
2. Masonry Cement , Comply with ASTM C 91
3. Plastic Cement, Comply with ASTM C1328
4. Proprietary Blended Basecoats must demonstrate compliance with ASTM C 926 and provide a manufacturer's warranty

B. Lime: Hydrated and Type S and complying with ASTM C 206

C. Sand: Washed, free of deleterious or friable material and well graded, conforming to ASTM C 897 or demonstrate sand has a successful performance of at least five (5) years.

D. Water: Clean and potable

E. Additives to the basecoat:

1. Fibers: ¼ to ½ inch long alkali resistant, polypropylene, nylon or fiberglass, complying with ASTM C 1116
2. Pumping Additive: May be used when approved by Architect and only with a letter from manufacturer that the pump additive will have no deleterious effect on the plaster mix.
3. Other Additives (air-entrainers, water reducers, accelerators and alternate plasticizers): not permissible unless approved by Architect.

F. Basecoat Mix Proportions: Contractor shall select one of the following approved mix ratios and not alternate, switch or modify through the duration of the project unless approved by architect, follow TSIB recommendations: Scratch coat may be slightly richer in cement than brown coat: Proportions are listed in parts per volume. Sand is parts per "sum" of cementitious materials, lime is considered a cement. Fibers may be added to all mixes except proprietary basecoats. Pumping aids may be used if manufacturer's recommendations are closely followed. Quantities are volume and in parts:

Option #1 -

Field Mix: Conforming to ASTM C 926, Table 3

Option #2

Proprietary Basecoat: Follow all manufacturers' recommendations to ensure warranty

G. Finish Coat: Refer to drawings for Cement or Acrylic Finish Coat. (Architect to select "cement" or an "acrylic" finish and note on elevations. Architect to Select one:

1. Cement Finish: Pre-blended and bagged by a manufacturer member of the Stucco Manufacturers Association (SMA). Cement finish shall be pre-blended base material with pre-packaged color boxes (if required). Texture and color selection by Architect: (Select One and Note on Elevations)

- a. Sand Finish (16-20)
 - b. Light machine “Dash”
 - c. Lace or Spanish trowel
 - d. Semi-smooth- (Santa Barbara or Mission) – shall include a polymer basecoat compatible with the cement finish coat.and fiberglass mesh over the brown coat.
2. Acrylic Finish: Pre-blended and colored by a manufacturer that is a member of EIMA or the SMA. Texture and color selection by Architect: (Select one and note on elevations)
- a. Sand Finish (fine, medium, coarse)
 - b. Putz or Swirl
 - c. Semi-smooth finish
 - d. Natural Stone Aggregate
 - e. Ceramic bead finish
 - f. Metallic finish
3. Use a primer coat for the acrylic finish to ensure color uniformity and 100% coverage on lighter colors and all putz finish or swirl finishes.
4. Fog coat manufactured by manufacturer for cement finish to ensure color uniformity (as needed)
5. Bonding agent (if required), non re-emulsifying type, designed specifically for exterior portland cement plaster.

PART 3 –EXECUTION

3.01 EXAMINATION

- A. Verify that substrate and/or framing is complete and adequate to support lath and a portland cement plaster before starting work. Notify Architect, Owner or General Contractor of any unsatisfactory conditions. Proceed as directed.
- B. Clarify questions about details and inform Architect of conditions not to industry or TSIB standards. Proceed as directed.
- C. Do not cover wet materials, i.e. wood, gypsum sheathing.

3.02 WATER RESISTIVE BARRIER (WRB) INSTALLATION

- A. General: Install two (2) layers WRB over all sheathings.
 1. Individual layer, double layer, fifty percent method/s are acceptable.

2. If synthetic “house wraps” are substituted for one of the layers of WRB, the asphaltic

layer should be the top layer to act as a bond breaker for the scratch/base coat.

B. Integrate with flashings to always create a “weatherboard” or “Shingle-Fashion”, i.e. upper layer always overlap lower layers. Layers may be applied at same time or staggered.

C. Install WRB with a minimum two (2) inch horizontal laps and six (6) inch vertical laps. WRB is not required on ceilings or soffits.

D. Repair holes, tears or rips as recommended by the TSIB.

E. A Self Adhered Flashing (SAF) shall be used under the cement plaster in any locations where the plaster will be in less than a 60° plane or where water can pond. Apply SAF and WRB in a “Shingle Fashion”.

F. A WRB (building paper or “housewrap”) is not to be applied over concrete and/or masonry substrates. Liquid applied or trowelable products (if required) are to be reviewed by Architect prior to installation.

G Cement plaster shall not be installed in a horizontal position and subject to water ponding. The surface and framing shall be sloped and have a layer of SAF to extend over the WRB to six (6) inches onto the vertical wall surface.

3.03 LATH AND TRIM ACCESSORY INSTALLATION

A. Install trim accessories, i.e. weep screeds, casing beads, reveals, drip molds, corner reinforcement and control/expansion joints plumb, level and straight. All intersections and terminations shall be neatly mitered and align with adjoining trims. The grounds shall be set to provide specified plaster thickness.

B. Install longest length possible. It is recommended not to use pieces shorter than six (6) feet in length.(i.e. a 12 foot opening shall have two(2) six 6' (foot) pieces.) Ends of lath should be staggered.

C. Attach trim accessories to remain firm and solid during plastering. Attachment should not exceed 24 inches on center.

D. Single-piece Control Joints may be placed over continuous lath and wire tied to lath. Two-piece Expansion Joints must have the lath cut, be attached to framing and lath lap the flanges. Expansion joints govern over control joints (i.e. control joints shall terminate into expansion joints).

1. Place control joints as indicated on elevations. Typically this will be at corners of window and door openings. Panels should be as square as possible and should not exceed 144 square feet in size (unless otherwise noted on plans)

2. WRB shall be continuous behind all control joints and vertical reveals.

3. Horizontal reveals or two-piece expansion joints “may” have the WRB lap over the upper nail flange of the reveal. When this method is used; the WRB must extend up from below the horizontal reveal continuous behind and up past the reveal a minimum of six (6) inches. The upper layers of WRB lap over the nail flange.

E. Walls subject to wind-driven rain shall have the trim accessory terminations, intersections and

miters embedded in a daub of sealant.

F. Expanded flange casing shall be allowed over concrete and/or masonry substrates.

G. Apply metal lath horizontally across framing or furring supports and lap lath a minimum 1/2 inch at sides and minimum 1 inch on ends. Lap wire lath minimum one mesh on sides and ends. Stagger vertical laps at least 16 inches. Do not lap WRB over lath (no cold joints).

H. Lath shall lap flanges of solid flanged trim accessories by a minimum of 50%..

I. Attach lath to framing supports not more than seven (7) inches apart along framing supports only.

J. Powder Actuated Fasteners shall be used on concrete/masonry substrates when lath is applied. Fasteners shall be driven home and avoid spalling of concrete. Pattern shall simulate that of framed walls. Fasteners shall have a minimum 50 lb "pull out" value.

3.04 SOFFITS AND CEILINGS

A Refer to section 09100 –Suspended plaster ceilings

3.05 PLASTER INSTALLATION

A General: Areas not to be plastered shall be protected and/or kept clean and free of cement. Basecoat shall be plumb and level, tolerance shall be ¼ inch in ten (10) feet. Texture and color shall match mock-ups.

B. Concrete/masonry substrates: Contractor to determine if substrate is an acceptable for plaster bonding and if a bonding agent is required. Test patches are recommended. If substrate is questionable, notify Architect and proceed as directed.

C. Ceramic Tile: Plasterer to provide a scratch coat (only) for the tile contractor. Wipe down all interior and exterior corners. Do not use additives that may impair bond of mortar bed for tile.

D. Cement plaster to be applied with hand tools or machine at contractor's option (Best Means & Methods).

E. Do not mix more plaster that can be used in 30 minutes. Do not re-temper. Add only enough water allow proper application of cement plaster.

F. Verify lath is complete, substrates sound and solid prior to plastering.

3.06 SCRATCH COAT

A. Apply from architectural break to architectural break with sufficient pressure to ensure keying into lath. No cold joints shall be allowed.

B. Apply in sufficient thickness to substantially cover the lath.

C. Immediately score (scarify) in a predominately horizontal direction.

D. Wipe down all corners and leave no cement protrusions that will interfere with application of brown coat.

E. (OPTION) Place “butterflies” of alkali-resistant fiberglass mesh in a diagonal direction, delicately onto fresh scratch coat at the apex of window and door penetrations.

F. Let scratch coat cure 48 hours and moist cure with water. Contractor will determine moist-cure procedures based on climate conditions.

G. Keep scratch coat hydrated. Follow ASTM and/or TSIB recommendations for curing.

H. Do not apply brown coat until scratch coat is firm and hard.

3.07 BROWN COAT

A. Pre-wet the scratch coat or concrete/masonry substrate (if required) to avoid excessive suction of moisture from brown coat to avoid accelerated evaporation.

B. Apply from architectural break to architectural break. No cold joints will be allowed.

C. Brown coat shall be applied and fill to the grounds. Surface to be immediately darbied and/or rodded to a level and plumb plane.

D. When the initial moisture has left brown coat, “hard” float the brown coat to “densify”, consolidate and prepare for a finish coat. Sponge floats are not acceptable. A hard float shall be considered made from wood shingle, cork, plastic, compact felt or neoprene.

3.08 ALTERNATE METHOD

A. Building codes and standards recognize the “alternate” method or “double-back” application method to apply the brown coat.. This is acceptable only after approval from Architect.

B. The brown coat may be applied to the scratch coat as soon as the scratch coat has attained sufficient rigidity to allow brown coat application if the application does not fracture the scratch. On sheathed construction, the brown can be applied the same day at contractor’s option. Hard floating and curing still applies.

3.09 CURING

A. It is important to keep cement basecoat hydrated and allow the cement to chemically cure and harden. Moist cure as needed, morning and evening as required to produce a hard basecoat. Refer to TSIB recommendation.

B. Basecoat shall be allowed to cure a minimum of seven (7) days before applying a finish coat. If feasible allow the basecoat to cure fourteen (14) days prior to applying the finish coat.

C. Plastered walls with excessive shrinkage cracks in the basecoat due to a failure to water cure shall be skim coated with a polymer-based cement coat prior to applying a finish coat.

3.10 FINISH COAT

A. Apply finish coat to match mock-ups in color and texture.

B. Acrylic finish coat (delete if not applicable): apply a primer coat for light colored finishes or provide full prime coverage for all “putz” or “swirl” textures, Natural Stone Aggregate and

Ceramic-bead textures.

C. Provide sufficient crew size to maintain a wet edge. Scaffold lines should be kept to a minimum.

D. Maintain consistency and uniformity in application procedures and techniques.

E. Leave adjacent surfaces clean and free of plaster (stucco).

F. Leave protection of the plaster in place until finish coat is set.

G. Repair scaffold tie-ins to maintain water-resistance of plaster assembly and blend with finish coat.

3.11 QUALITY CONTROL

A. Finish tolerance shall be ¼" in ten (10) feet. No "eye-catching" discrepancies shall be allowed. Refer to TSIB Technical bulletin on "Judging Exterior Plaster".

B. Avoid performing work that will result in patching.

C. In the event of a dispute over quality or an installation, the architect shall call on the TSIB. Contractor agrees to abide by TSIB decision for repair, alteration or remedy.

PART 4 - MEASUREMENT AND PAYMENT

- 4.1 Full compensation for conforming to the requirements of this Section, **THREE COAT STUCCO SYSTEM** including all labor, materials, equipment, tools, and incidentals will be considered included in the Contract Lump Sum Price paid for the Building listed in the Bid Schedule and no additional compensation will be allowed therefore.

END OF SECTION 09200

SECTION 02371 - AUGER CAST GROUT PILES

PART 1 - GENERAL

1.1 RELATED DOCUMENT

- A. All applicable provisions of Division 0 - Bidding and Contract Requirements, and Division 1 General Requirements shall govern the work under this section.

1.2 WORK INCLUDED

- A. Provide all labor, materials, necessary equipment and services to complete the Drilled, Cast-In-Place work, as indicated on the drawings, as specified herein or both, except as for items specified herein or both, except as for items specifically indicated as "NIC ITEMS".

1.3 RELATED WORK

- A. Section 03200 - Concrete Reinforcement
- B. Section 03300 - Cast-In-Place Concrete

1.4 QUALITY ASSURANCE:

- A. Installation Tolerances: Deviation shall not be more than 1/8 inch per foot from the vertical or batter line, with a total of the head of pile not more than three inches. Finished elevation to be no more than 1-1/2 inches above or below the elevation indicated.
- B. Testing of Grout: One set of six 2 inch cubes made each day while pile casting, with two cubes of each set broken after three days, two cubes of each set broken after seven days at two cubes of each set broken after 28 days. Cubes shall be made and tested in accordance with ASTM C-109.
- C. Volume of Pile: The volume of grout per linear foot of pile shall be equal to or exceed the volume of grout per linear foot of the applicable test pile. Furnish a method for the positive determination of the volume of grout injected per pile. Piles exhibiting an insufficiency of grout will be rejected or load tested as directed by the Engineer.
- D. Depth and Alignment of Auger: Provide an accurate means of determining the depth and alignment of the Auger.
- E. Pressure Gauges: Provide grout pressure gauges which accurately indicated displacement at the leads and at the crane operator's position. Provide gauge savers to protect gauges from grout. Clean gauges daily to prevent grout blockage. Replace inaccurate gauges with new gauges.

1.5 SUBMITTALS

- A. In accordance with Section 01330.
- B. Experience: The Drilled, Cast-In-Place pile contractor shall submit evidence to the Engineer

that he has been engaged in the successful installation of Drilled, Cast-In-Place piles for at least five years and that his crane operators or "keyman" who give directions to the crane operators have at least two years of experience in the successful installation of Drilled, Cast-In-Place piles.

C. Shop Drawings:

1. Indicate methods of Augering and placing of grout and reinforcing steel.
2. Indicate seven and 28 day compressive strength of grout.
3. Indicate the size, number and the installation sequence for each of the scheduled piles.
4. Reinforcing: See 1.03A above.

D. Equipment Review and Working Drawings:

1. Complete list of the equipment proposed for use, including the manufacturer's description of the characteristics of each piece of equipment.
2. Working drawings of accessories showing compatibility with the size, configuration, handling, and requirements of the type of pile indicated.
3. Working drawings showing the methods and equipment proposed for load tests.

PART 2 - PRODUCTS

2.1 GROUT

- A. Mixture of Portland cement, a pozzolanic material when approved, fluidizers, retarder when approved, sand and water proportioned and mixed to produce a grout capable of being pumped and having a minimum compressive strength as indicated on structural drawings. Other admixtures shall not be used.
- B. Portland Cement: ASTM C150, Type 1.
- C. Pozzolan: Fly ash or other approved pozzolanic material conforming to ASTM C618.
- D. Grout Fluidifier: Corps of Engineers CRD C-566; expansion not to exceed five percent. Use a compound possessing characteristics which will increase the fluidity of the mixture, assist in the dispersal of cement grains, and neutralize the setting shrinkage of the high strength cement mortar.
- E. Retarder: When approved, conforming to ASTM C494, Type B. Dosage rate shall not exceed manufacturer's recommendations. Maximum retardation shall not exceed 30 minutes.
- F. Water: Fresh clean and free from sewage, oil, acid, alkali, salts, or organic matter potable.
- G. Fine Aggregate: ASTM C33.

2.2 REINFORCEMENT: Materials, assembly and placement of reinforcement shall conform to the

requirements see 1.03A above.

2.3 EQUIPMENT

- A. Grout pump: Use a positive displacement piston pump of an approved design, capable of developing displacing pressure at the pump up to 350 psi. Calibrate the pump discharge capacity in strokes per cubic foot or revolutions per cubic foot by a method approved by the Engineer. Remove oil or other rust inhibitors from mixing drums and pressure grout pumps prior to mixing and pumping. Equip pump with digital counter for counting pump strokes to determine volume of grout pumped.
- B. Crane: Use crane equipped with torque converter or hydraulic drive system to permit a slow continuous auger lifting (grouting) operation.
- C. Auger: Use 3-inch minimum I.D. hollow shaft auger to facilitate grout flow.
- D. Auger drive: Use auger drive head having a minimum static weight of 4,000 pounds and drive 150 horsepower.

PART 3 - EXECUTION

3.1 GENERAL

- A. Estimated tip elevations are approximate based upon subsurface explorations and the approximate required lengths of test piles are indicated.

3.2 PILE LENGTHS

- A. Estimated quantities of piles indicated are based on the probable lengths in the completed structure and are approximate only. Lengths of piles to be installed shall be determined by the Engineer during the auguring process. These lengths shall represent the lengths which are to remain in the completed structure.

3.3 TEST PILES

- A. Place test piles of the type as specified elsewhere in this section.
- B. Install test piles in accordance with Article 3.04. of this section.
- C. Grout shall not be pumped until the Engineer has approved the final tip elevation.
- D. Pile Load Tests:
 - 1. Install 4 test piles in the locations directed by the Engineer. The engineer will select at least one of these piles for load testing. One pile shall be load tested for compression and one for tension.
 - 2. Test piles which pass the load test in an undamaged condition may be authorized as permanent piles in the work.
 - 3. Load test requirement: At the direction of the Engineer compression and tension

load tests shall be made in general accordance with ASTM D1143. The load testing of the piles shall be used to determine the following:

- a. That correct lengths and installation criteria are being used, and if this is not the case to:
 - b. Establish that revised lengths or installation criteria are satisfactory.
4. Load application: The test pile shall be loaded up to a total load of not less than two times the design capacity of the pile. Loads shall be applied to the maximum test load in 15 ton increments.
 5. Acceptance Criteria: For the pile to be acceptable, the gross pile head movement at 200 percent of the design load shall be less than the 1/2 inch and the graphical plot of load vs. settlement up to 150 percent of the design load shall be linear.

3.4 INSTALLATION OF PILES:

- A. General: Provide piling of the length and configuration necessary to:
 1. Achieve the required penetration determined by the Engineer.
 2. Extend into the pile cap or structure footing the indicated length.
 3. Attain the indicated bearing capacity.
- B. Install piling to the required penetration, or to the required bearing layer, or to refusal as determined by the Engineer. Refusal is defined as the depth where less than 6 inches of downward penetration is achieved in one minute of auguring.
- C. Excavation of the pile cap may be completed prior to or after auguring and grouting. Completely fill the augured hole with grout and sleeve to cutoff elevation. The excavation of the pile cap shall be inspected and approved by the Engineer.
- D. Feed materials to the mixer accurately measured by weight, except water, which may be measure by volume.
- E. Drill each pile hole and fill with grout in an uninterrupted operation. Provide grout injection equipment with grout pressure gauges which are readable by the crane operator at his normal work station and the inspecting Engineer at the leads.
- F. If the auger jumps upward more than six inches but less than 12 inches during withdrawal, reinsert auger to at least three feet past the position where the inspecting Engineer first detected the deficiency and re-grout the pile from that point upward.
- G. If the auger jumps upward more than 12 inches during withdrawal, or the pile is not installed in general accordance with accepted procedures, reinsert auger to the point that the auger jumped or to the base of the questionable area and regrout the pile to the grout surface. This pile will be considered a rejected pile and an additional pile shall be installed adjacent thereto.
- H. Rapid drops in the grout pressure of 50 psi or more at the leads, occurring when otherwise

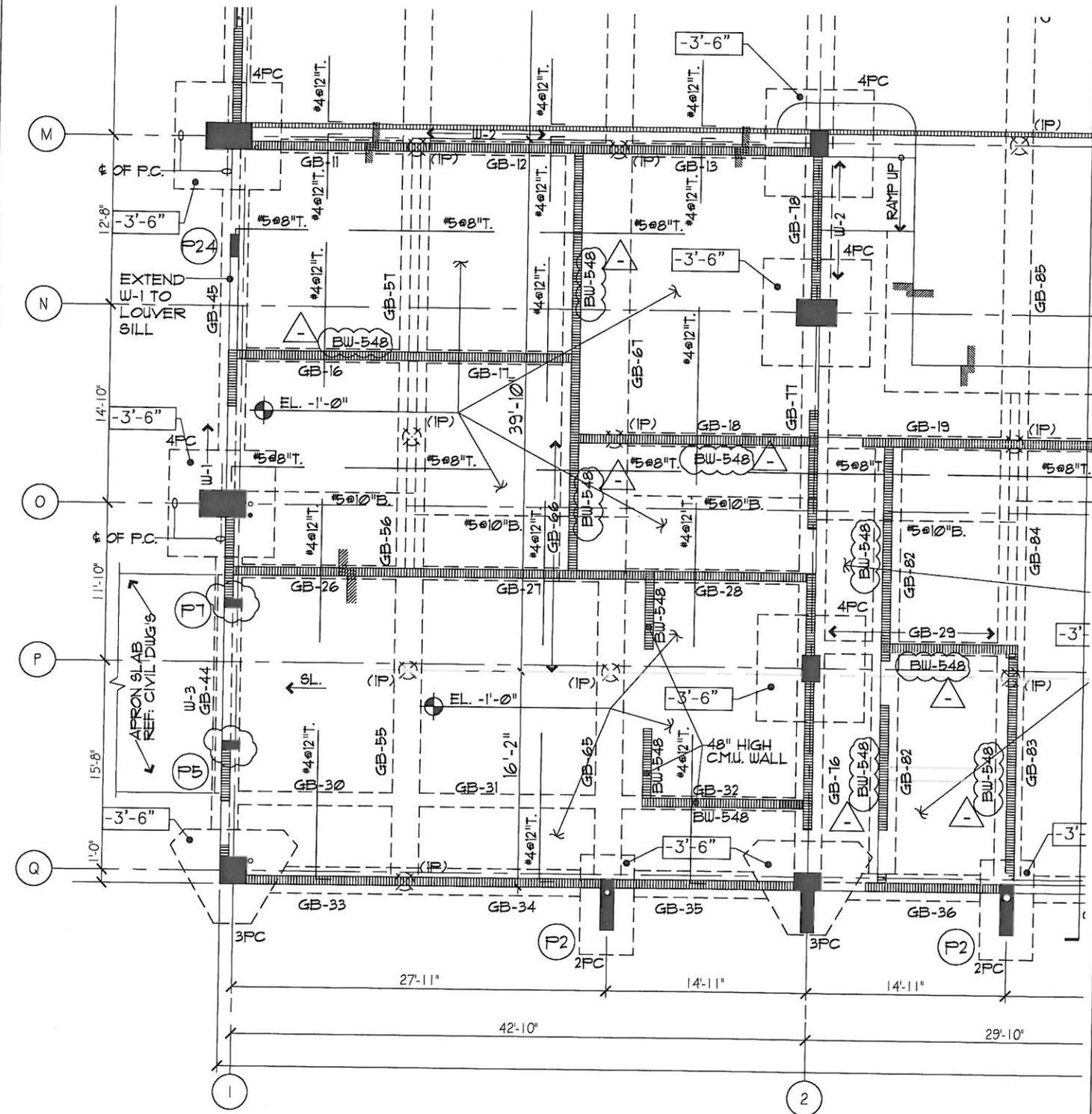
accepted procedures are being used for installation, may be cause for pile abandonment. Such abandoned piles, however, will be paid for along with the replacement piles. In case of a rapid drop in the grout pressure, lower the auger three feet past the point of pressure loss and attempt to grout the pile to the surface. If grout pressure cannot be built-up to the specified pressure head during the regrouting operation and more than 50 cubic feet of grout is lost at any five feet interval during the regrouting attempt, complete the pile as well as possible and abandons the pile. Rapid drops in the grout pressure of 50 psi or more at the leads occurring when unacceptable procedures are being used for installation shall be cause for rejection of pile. Such piles shall be completed as well as possible and be replaced by additional piles.

- I. The initial pressure at the base of the leads shall be maintained at a minimum of 150 psi at the start of pile grouting.
- J. Drilled Cast-In-Place Pile reinforcement: The cage shall have suitable "chairs" attached to the vertical bars to assure centering of the cage in the pile and the cage shall be placed immediately after grouting the pile.
- K. After installation of the piles, the pile cap base shall be cleaned until reasonably free of cuttings. Dispose of material excavated by auguring outside the limits of footing area unless otherwise directed. Do not leave partially completed piles overnight, but completely grout and protect at the termination of each day's operation.
- L. Grout volume: The volume of grout per linear foot of pile shall be equal to or greater than the volume of grout per foot of applicable test pile. Volume measurements shall be made by the Engineer or his representative, but the Contractor shall provide calibrated equipment to make such measurements.
- M. Protection of piles: Provide a sequence of pile installation such that adjacent piles are not disturbed. Evidence of disturbance may appear as a drop in the grout surface. Keep the equipment far enough away from the pile being augured to avoid compressing or shearing of the soil which may in turn displace or squeeze off the grout column. Do not place piles within three feet of adjacent piles until the grout in the piles has undergone initial set and has set for at least two hours.

PART 4- MEASUREMENT AND PAYMENT

- 4.1 Full compensation for conforming to the requirements of this Section, AUGER CAST GROUT PILES including all labor, materials, equipment, tools, and incidentals will be considered included in the Contract Lump Sum price listed in the Bid Schedule and no additional compensation will be allowed therefore.

END OF SECTION 02371

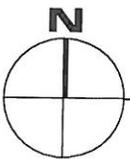
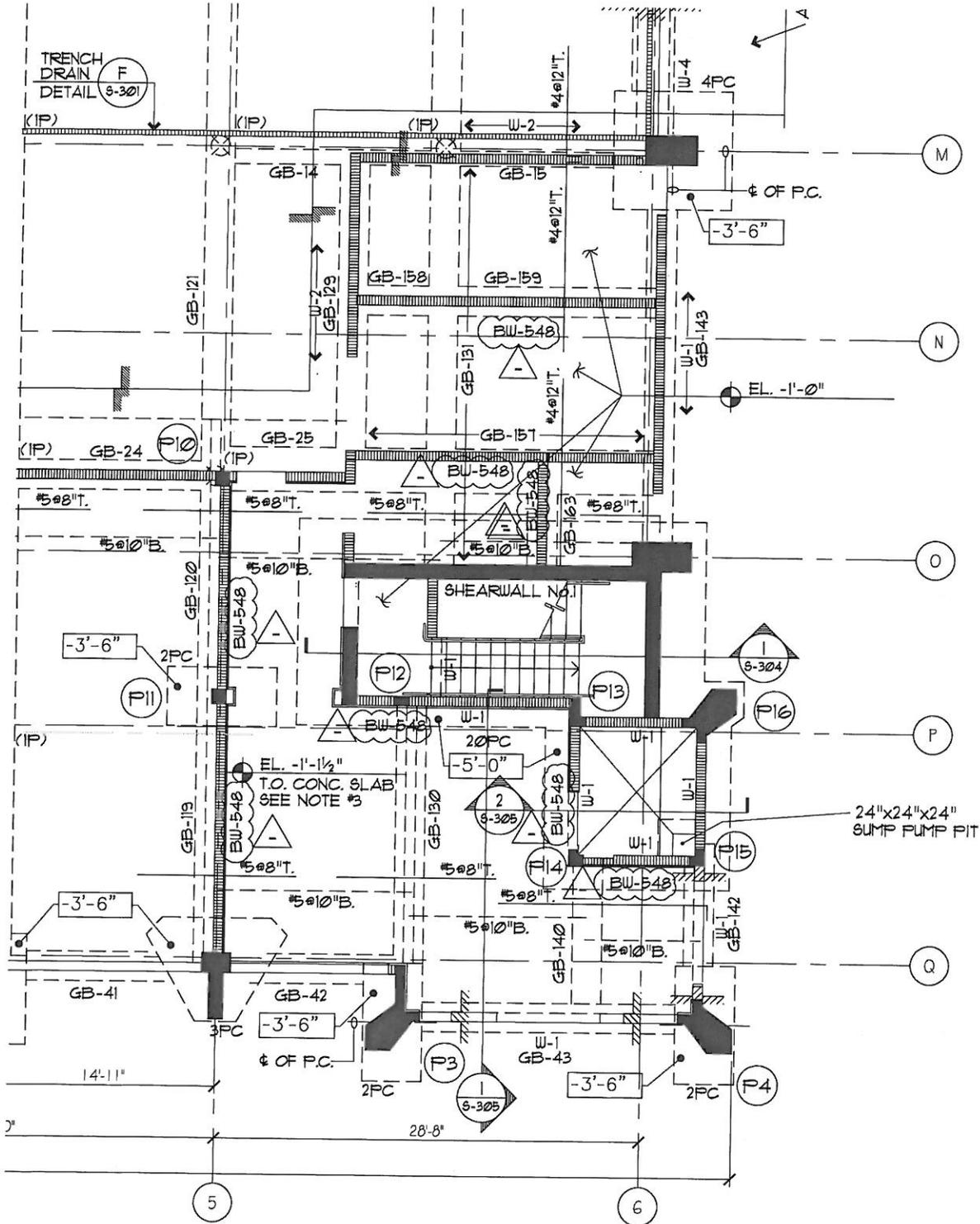


PARTIAL FOUNDATION PLAN (SOUTH)



DONNELL, DUQUESNE & ALBAISA, P.A.
 CONSULTING ENGINEERS
REF-SHT S-151
RFI 10 (ITEM # 13)
 4930 S.W. 74th CT. MIAMI, FLORIDA 33155
 (305) 666-0711 FAX 666-5259
 AUTHORIZATION No 00001306

Joseph Caleb Center Parking Garage		
job number	0912-A	date 11-08-2013
designed DDA	drawn DDA	sheet no. 1 OF 2



PARTIAL FOUNDATION PLAN (SOUTH)



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Joseph Caleb Center Parking Garage		
job number	0912-A	date 11-08-2013
designed DDA	drawn DDA	sheet no. 2 OF 2