



Addendum #: Addendum #6
Issue Date: 04/22/2024

The following additions, clarifications and revisions have been made to the Contract Documents:

CLARIFICATIONS:

1. No further addenda will be issued.
2. See attached 085653 - Transaction Window which was intended to be included in addendum 5

REVISIONS:

1. **REISSUE** Section 00 24 00 BID PACKAGES. Changes noted in red

SECTION 01 12 00 – BID PACKAGES**PART 1 - GENERAL****1.1 GENERAL**

- A. This section provides a guideline of the scope of work to be included with each bid package. This section includes scope and instructions which may not be specifically called out elsewhere in the Project Manual, Plans or Specifications. All bidders should read this section carefully in its entirety. This section is not all inclusive and is to be read in conjunction with the entire set of project documents. It is each Contractor's responsibility to submit a complete bid.
- B. Contractors may submit a bid on more than one bid package but a separate signed bid form in a separate envelope is required for each bid package submitted complying with the provisions of section 00 11 13 - Advertisement to Bid and section 00 21 13 – instruction to bidders.
- C. Where items are noted to be "provide(d)" or "include(s)" that shall indicate furnish, install, unloading, shake-out, fasteners, incidentals, and all work necessary for a complete system unless specifically noted otherwise.
- D. This specification shall have precedence for assignment of Scope of Work prior to and above any assignments of Scope of Work in the Drawings, Specifications, or elsewhere in the Contract Documents.

1.2 BID PACKAGES

List of Bid Packages:

1. *Bid Package 01 – Electrical Distribution Equipment Supply [previously bid/awarded]*
2. *Bid Package 02 – Generator Supply [previously bid/awarded]*
3. Bid Package 03 - General Trades
4. Bid Package 04 - Civil Package
5. Bid Package 05 - Asphalt Paving
6. Bid Package 06 - Site Concrete
7. Bid Package 07 - Building Concrete
8. Bid Package 08 – Precast
9. Bid Package 09 – Masonry
10. Bid Package 10 – Roofing
11. Bid Package 11 - Detention Equipment
12. Bid Package 12 - Fire Protection
13. Bid Package 13 – Plumbing
14. Bid Package 14 – HVAC
15. Bid Package 15 - Electrical

1.3 BID PACKAGE SCOPES OF WORK

- A. Scope applicable to all bid packages:
 1. Include all costs associated with Textura Payment Management System (Reference 01 2900a – Oracle-Textura)

2. All trade/bid packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work.
3. All bid packages are responsible for their own daily clean-up to the dumpsters supplied.
4. Provide all licensed survey, staking and layout as necessary to complete the bid package Scope of Work. Construction Manager will provide onsite benchmarks.
5. Provide all field measuring necessary for fabrication, installation, and as-built drawings as necessary to complete the bid package Scope of Work
6. Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
7. Provide all scaffolding, temporary shoring, guying, supports, bracing, and additional means and methods necessary to complete the bid package Scope of Work
8. Provide testing as specified for your Scope of Work
9. Provide scheduling and coordination of any Owner third party testing agencies for all specified testing by Others pertaining to your Scope of Work
10. Provide all training and owner demonstration as required as specified for your Scope of Work
11. Provide all maintenance stock/extra materials as specified for your Scope of Work
12. Include all delegated design as specified for your Scope of Work. This includes all engineering (by a licensed engineer) as well as the cost of design.
13. Include all mockups as specified for your Scope of Work including removal of any non-in-situ mockups.
14. Include all costs associated with meeting minimum insurance requirements outlined in 00 2000 – Sample Subcontract Agreement. This includes the costs of additional waivers and endorsements that might be required to meet specified requirements.
15. All bids shall reflect the project schedule (Reference 00 3113a – Schedule), phasing and site logistics plan (Reference 01 5000a – Site Logistics Plan) including adequate staffing, timely material procurement, acceleration, and additional mobilizations.
16. All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer’s standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects’ determination shall be final and adjustments to the contract as a result of Architects’ determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
17. Include coordination and scheduling of all tier subcontractors under this Scope of Work
18. Damage to graded areas outside the temporary road areas shall be corrected at the expense of the trade package that incurred the damage.
19. All bid packages shall provide bids in full compliance with all notes and details of the “G” sheets of the contract documents.

B. Bid Package 01 – Electrical Distribution Equipment Supply [PREVIOUSLY AWARDED]

1. *Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.*
2. *Applicable Specifications:*
 - a. *Division 00 Complete*
 - b. *Division 01 Complete*
 - c. *262416 – Panel Boards Complete*
3. *Alternates: See section 012300 - Alternates*
4. *Allowances:*
 - a. *NA*
5. *Scope of Work:*
 - a. *Include supply and delivery of complete new main distribution panel (MDP) per E500 Electrical one line and as specified.*
 - b. *Include extra materials/attic stock as specified.*

- c. *Include any and all costs associated with storage of electrical equipment until the electrical equipment is delivered to the jobsite. No jobsite storage will be available. Refer to 00 3113a – Schedule.*
- d. *Include all delivery and freight costs to project site.*
- e. *Include coordination of delivery and unloading/installation of equipment with the Construction Manager and Electrical Contractor.*
- f. *Include standard quality-control/quality assurance testing and confirm functionality of all equipment prior to shipping.*
- g. *Provide all submittals, shop drawings, product data, warranties, etc. for your equipment. Warranties are to begin on the date of substantial completion of the project. Warranties are to begin on the date of substantial completion of the project.*
- h. *Provide Owner demonstration as specified.*
- i. *Include any and all costs associated with manufacturer's start-up of equipment including manufacturer's field service testing.*
- j. *A Letter of Intent will be issued upon award of contract. A subcontract agreement will be issued after the executed Owner GMP agreement.*
- k. *Include completion of Coordination study to assure gear compliance*

C. *Bid Package 02 – Generator Supply [PREVIOUSLY AWARDED]*

- 1. *Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.*
- 2. *Applicable Specifications :*
 - a. *Division 00 Complete*
 - b. *Division 01 Complete*
 - c. *263213 Engine Driven Generators Complete*
 - d. *263600 Transfer Switches Complete*
- 3. *Alternates: See section 012300 - Alternates*
- 4. *Allowances:*
 - a. *NA*
- 5. *Scope of Work*
 - a. *Supply and deliver emergency standby generator 250kW Diesel generator in enclosure with sub-base fuel tank for installation by Others. Refer to drawings and Specifications.*
 - b. *Supply and deliver AUTOMATIC TRANSFER SWITCHES ATS-LS AND ATS-OS for installation by others*
 - c. *Supply and deliver docking station per E500 for installation by Others.*
 - d. *Include extra materials/attic stock as specified.*
 - e. *Include any and all costs associated with storage of electrical equipment until the electrical equipment is delivered to the jobsite. No jobsite storage will be available. Refer to 00 3113a – Schedule.*
 - f. *Include all delivery and freight costs to project site.*
 - g. *Include coordination of delivery and unloading/installation of equipment with the Construction Manager and Electrical Contractor.*
 - h. *Include standard quality-control/quality assurance testing and confirm functionality of all equipment prior to shipping.*
 - i. *Provide 12-month maintenance service by manufacturer's designated service organization as specified.*
 - j. *Provide all submittals, shop drawings, product data, warranties, etc. for your equipment. Warranties are to begin on the date of substantial completion of the project. Warranties are to begin on the date of substantial completion of the project.*
 - k. *Provide Owner demonstration as specified.*

- l. Include any and all costs associated with manufacturer's start-up of equipment including manufacturer's field service testing.*
- m. A Letter of Intent will be issued upon award of contract. A subcontract agreement will be issued after the executed Owner GMP agreement.*

D. Bid Package 03 – General Trades

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications (listed items are complete unless noted otherwise):
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 003132 Geotechnical Data
 - d. 051200 Structural Steel Framing
 - e. 052100 Steel Joist Framing
 - f. 053100 Steel Decking
 - g. 054000 Cold-Formed Metal Framing
 - h. 055100 Metal Stairs
 - i. 061000 Rough Carpentry
 - j. 064116 Plastic Laminate Faced Architectural Cabinets
 - k. 072100 Thermal Insulation [As applicable]
 - l. 078413 Penetration Firestopping [As applicable]
 - m. 078443 Joint Firestopping [As applicable]
 - n. 079200 Joint Sealant [As applicable]
 - o. 079216 Pick-Proof Joint Sealants [Complete]
 - p. 081113 Hollow Metal Doors and Frames
 - q. 081416 Flush Wood Doors
 - r. *Removed*
 - s. 083323 Overhead Coiling Doors
 - t. 083613 Sectional Doors
 - u. 084313 Aluminum-Framed Storefronts
 - v. 084413 Glazed Aluminum Curtain Walls
 - w. 086200 Unit Skylights
 - x. 087100 Door Hardware
 - y. 087113 Automatic Door Operators
 - z. 088000 Glazing
 - aa. 088300 Mirrors
 - bb. 090561 Common Work Results for Flooring Preparation
 - cc. 092116 Gypsum Board Assemblies
 - dd. 092216 Non-Structural Metal Framing
 - ee. 092900 Gypsum Board
 - ff. 092900.13 Security Mesh
 - gg. 093000 Tiling
 - hh. 096513 Resilient Base and Accessories
 - ii. 096519 Resilient Tile Flooring
 - jj. 096723 Resinous Flooring and Wall Coatings
 - kk. 096813 Tile Carpeting
 - ll. 098000 Acoustic Treatment
 - mm. 099123 Painting
 - nn. 099656 Interior Epoxy Coatings
 - oo. 101400 Signage
 - pp. 102113 Toilet compartments
 - qq. 102641 Ballistics Resistant Panels

- rr. 102800 Toilet and Laundry Accessories
 - ss. 104300 Emergency Aid Specialties
 - tt. 104400 Fire Protection Specialties
 - uu. 105113 Metal Lockers
 - vv. 105617 Wall Mounted Standards and Shelving
 - ww. ~~105626.13 Mobile Storage Shelving Units~~ Removed
 - xx. 107516 Ground-Set Flagpoles
 - yy. 111100 Commercial Laundry Equipment
 - zz. 114000 Food Service Equipment
 - aaa. 122413 Roller Window Shades
 - bbb. 123623.13 Plastic-Laminate-Clad Countertops
 - ccc. 123661 Simulated Stone Countertops
 - ddd. 312000 Earth Moving [As Applicable]
 - eee. 316613 Stone Column Ground Improvement
 - fff. 323113 Chain Link Fences and Gates
 - ggg. 329200 Turf and Grasses
3. Alternates: See section 012300 – Alternates
4. Allowances:
- a. Include an allowance of **\$5,000** allowance for miscellaneous materials/equipment to be used at the discretion of the Construction Manager
 - b. Include an allowance of **\$20,000** for general waste, masonry/concrete, and dumpsters necessary to accommodate waste for other bid packages.
 - c. Include an allowance of **\$35,000** for winter/weather conditions and temporary heat. Allowance to cover propane, utility usage charges, temporary filters, and other costs incurred from winter conditions. A minimum of 45 degrees shall be maintained in all parts of the building that are enclosed. This allowance does not include rental for temporary heaters listed the “general requirements” section of this bid package scope of work.
 - d. Include an allowance of **\$35,000** for temporary floor protection.
 - e. Include an allowance of **\$50,000** for slab moisture mitigation including shot blasting and major floor preparation.
 - f. All allowances will be for use as directed by the Construction Manager.
 - g. Any allowances listed above are independent of any items listed below in Section 5 – Scope of Work. Allowances are not intended to cover the costs of any items listed in the Scope of Work.
 - h. Refer to unit prices below for additional allowance items to be included in base bid.
 - i. Each allowance shall be a separate line item within the schedule of values for each pay application.
 - j. Refer to 01 21 00 Allowances for additional information.
5. Unit Prices
- a. **Unit Price 3a – Laborer Hours**
 - 1) **Description:** Include laborer trade labor hours to be used at the discretion of the Construction Manager. The Bidding Contractors for this bid package are required to include the quantity allowance listed below **in their base bid price**. Adjustments to the Contract shall be made by in-field measurements will be made via additive or deductive change order for the unit price listed on the bid form.
 - 2) **Base bid Quantity:** 450 hours
 - 3) **Unit of Measurement:** Labor hours, based on T&M tickets
 - b. **Unit Price 3b – Carpenter Hours**
 - 1) **Description:** Include Carpenter trade labor hours to be used at the discretion of the Construction Manager. The site Bidding Contractors for this bid package are required to include the quantity allowance listed below **in their base bid price**. Adjustments to the Contract shall be made by in-field measurements will be made via additive or deductive change order for the unit price listed on the bid form.

- 2) **Base bid Quantity:** 50 hours
- 3) **Unit of Measurement:** Labor hours, based on T&M tickets
- c. Refer to section 01 2200 for additional information
- 6. Scope of Work
 - 1) Scope breakouts below are provided for organization purposes only. Bidders for this package shall provide a complete bid for all items listed under this bid package Scope of Work.
 - 2) **This bid package shall provide all applicable items noted under part 1.3 A of this specification “scope applicable to all bid packages.”**
 - a. General Requirement Items
 - 1) Provide temporary toilets for the duration of the project per OSHA standards, section 01 5000 Temporary Facilities and Controls and the site logistics plan. Include removal of waste and maintenance. Remove when directed by Construction Manager
 - 2) Provide temporary heaters for winter heating season during construction activities. A minimum of 45 degrees shall be maintained in all parts of the building that are enclosed.
 - 3) Furnish, install, and relocate construction fence and gates as shown on the site logistics plan. Fence posts to be driven not sandbagged.
 - b. Final Clean
 - 1) Provide all labor, cleaning supplies, and equipment for final construction cleaning
 - 2) Sweep & mop all hard floors or provide machine clean at contractor’s option
 - 3) Vacuum of carpets
 - 4) Sweep and/or vacuum of shop/storage areas/mechanical rooms
 - 5) Dust clean all interior walls.
 - 6) Clean/wipe down of all wall base
 - 7) Clean/wipe down all doors, frames, and hardware
 - 8) Clean/wipe down toilet partitions and accessories
 - 9) Clean/wipe down wall tile and grout
 - 10) Clean/wipe down stairs and railings
 - 11) Clean/wipe down outside surfaces of HVAC units
 - 12) Clean/wipe down outside surfaces of mechanical equipment
 - 13) Clean/wipe down outside surfaces of mechanical panels
 - 14) Removal dust and dirt from overhead light fixtures
 - 15) Clean/wipe down all exposed piping (concealed piping shall not be required to be cleaned).
 - 16) Clean/wipe down all restroom fixtures, accessories, and mirrors
 - 17) Clean/wipe down interior window frames
 - 18) Clean/wipe down borrow lites frames
 - 19) Clean/wipe down of all borrow lite, interior storefront, and door glazing
 - 20) Clean/wipe down the interior glass of exterior windows
 - 21) Clean/wipe down exterior and interior of all cabinets
 - 22) Clean/wipe down of all counters
 - 23) Clean/wipe down of all sills
 - 24) Clean/wipe down of all casework
 - 25) Clean/wipe down of all solid or laminated surfaces
 - 26) Cleaning storefront entrance/vestibule frame and glass
 - 27) Clean/wash all exterior glass
 - 28) Clean all Detention equipment and accessories
 - c. Aggregate Piers
 - 1) Provide and design aggregate pier foundation supports per plans and specs
 - 2) Piers shall be installed to subgrade elevation, refer RFI 97.
 - 3) Spoils to be removed by civil bid package.

d. Landscaping

- 1) Provide complete landscaping per Contract Documents
- 2) Provide all seeding, mulching, crimping, and turf as shown. Provide hydraulic seeding at contractor's option per L001 specifications part 3.5.
- 3) Provide all ~~permeant~~ **permanent** seeding of all areas disturbed in the construction area per the plans. Areas outside the work area disturbed by this contractor shall be reseeded and restored to original condition by this bid package.
- 4) Provide starter fertilizer for seeded areas
- 5) Provide weed barriers
- 6) Provide all final grading to +/- 0.10 foot. All verification of grades, slopes, and drainage prior to installations
- 7) Provide all soil preparation including amending soil, providing positive drainage, as well as removal and disposal of all weeds, vegetation and rocks as required. Refer to L001 specifications part 3.2. Refer to RFI 28.
 - a) Civil bid package to provide all topsoil unless noted otherwise
 - b) Provide all over digging and all planting soil. Remove excess spoils. Refer to RFI 48 and 49
- 8) Provide all mulching and ground cover. refer to C001 seeding note 2. Provide all trap rock and shredded hardwood mulch
- 9) Provide pre-emergent to all planting beds prior to mulching
- 10) Provide all edging at landscape beds as shown and specified. Provide all excavation and backfill required for landscaping edging
- 11) Provide all plantings including shrubs, decorative grasses, perennials and trees as shown
- 12) Provide all staking, guying and mulching of trees
- 13) Provide tree wraps and water bags as shown
- 14) Provide all watering, mowing and maintenance service as specified for planting and seeding
- 15) Provide warranty on items provided under this scope of work as specified. Refer to L001 landscape specifications including part 1.4 warranty
- 16) Provide soil testing per L001 landscaping specifications part 1.2 B
- 17) Provide all layout and location of plantings, landscape beds, landscape features and all items provided under this scope of work.

e. Fencing & Gates

- 1) Provide all fencing including rails, gates, posts, mesh, excavation, concrete foundations, mounting plates, fasteners, attachments, and additional items as necessary for a complete fencing system.
- 2) Provide removal of fence spoils
- 3) Provide fence and gates for dumpster enclosure including vinyl inserts
- 4) Provide all detention fencing including razor wire and wire line arms
- 5) Provide all concrete footings at fence posts and midspan eyebolt installations.

f. Steel Fabrication and Erection

- 1) Provide and erect all structural, miscellaneous steel and associated items as required for a complete system
- 2) Provide all steel columns
- 3) Provide all steel beams
- 4) Provide all steel Joists
- 5) Provide all steel decking and headed studs.
- 6) Provide all tubes, channels, bent plates, angle framing, perimeter steel angles, bridging, bracing and related steel components
 - a) Supply all top of CMU wall channel braces/kickers for installation by masonry bid package. Refer to G130 for typical details.

- b) Provide steel angles and framing as required to brace precast panels to joists/deck per S513 details 10 and 11
- c) Provide all steel angles and light gauge steel clips/enclosure pieces for masonry and precast head of walls
- d) Provide all WT members for deck bearing per details on S510 including welding of deck to members/bearing embeds as shown.
- e) Provide continuous support angle and bent sill plate for detention coiling door sill support per A801/A12 and S512/13 including screw anchors
- 7) Furnish and deliver anchor bolts, setting plates, bearing plates, steel shims, and loose lintels for installation by concrete, ~~precast~~, and masonry bid package
 - a) Supply and deliver embeds to concrete bid packages respectively for monument sign precast panel per S002/2
 - b) Supply and deliver all steel embed plates for WT bearing per S510/17 typical
- 8) Furnish and install roof and slab opening frames and support
- 9) Provide cutting of metal decking for floor and roof openings. Coordinate with other all trades.
- 10) Provide all prefabricated metal ladders. Include bent steel plate at hatch
- 11) Furnish and deliver all steel lintels. Include installation of all lintels with a piece weight over 200 lbs and any lintels welded to structural members.
- 12) Furnish and deliver all steel items that are shown to be embedded/grouted into masonry walls
 - a) Supply all top of CMU wall embed and bent plates for installation by masonry bid package. Refer to G130 for typical details.
- 13) Furnish and deliver all steel items that are shown to be embedded/grouted into cast-in place concrete
 - a) ~~Supply and deliver embed plates at overhead doors jambs/heads per A801/A12,C12~~
- 14) Furnish and deliver interior pipe bollards for installation by other trade packages.
- 15) Provide all field measuring necessary for fabrication, installation, and as-built drawings as necessary to complete the bid package Scope of Work
- 16) Provide all layout and surveyor staking as required for installation of items included in this Scope of Work. Include layout, field measure, and pre-installation survey for this Contractor's work. Benchmarks/primary control points to be provided by others
- 17) Provide fasteners for your scope of work including epoxy and expansion anchors as required. Provide all erection bolts and screws to meet erectors requirements.
- 18) Include all submittals, shop drawings, samples, and delegated design included in specifications assigned to this Scope of Work per the Contract Documents including structural connections. Provide engineering and shop drawings including seal by a structural engineer registered in the project state.
- 19) Includes erection for all steel unless noted as FURNISH/SUPPLY only above
- 20) Provide shop primed coat for all steel unless noted otherwise
- 21) Provide shop galvanizing, anodizing, and coatings of items furnished under this Scope of Work per Contract Documents
- 22) "All setting of leveling nuts as needed at anchor bolts. ~~CORE-Concrete bid package~~ will have one leveling nut per base plate at the correct elevation" provide complete anchor bolt and embed survey for embeds installed in masonry, cast-in-place and precast assemblies and provide to CM.
- 23) Provide all labor, rigging, hoisting, flagging, tag lines, spotters, equipment, and loose hardware as necessary for complete system erection. This Contractor shall not rely upon the Construction Manager to make equipment available for this Contractor's use.
- 24) Provide all delivery, hauling permits, escorts, and freight charges as necessary for delivery of items provided under this Scope of Work

- 25) Provide all welding necessary to install items provided under this Scope of Work including all shear and moment connections.
- 26) This Contractor is solely responsible for all coordination of shop welds and field welds, drawings showing shop and field welds are for reference. This steel provider shall provide coordinated bid.
- 27) This Contractor shall provide final detailing, calculations, engineering, and engineer's stamp for all steel connections.
- 28) Provide all temporary bracing as required for the erection of items furnished under this Scope of Work.
- 29) Provide field and office coordination with all other trades for submittals and in-field installation.
- 30) Include coordination and scheduling with Owner's testing and inspection Agency
- 31) Include touch-up paint/galvanizing coat and patching at connections and other areas damaged by this Contractor. Include touch up painting of field welds
- 32) Provide all unit skylight support framing/curb framing per S513/07 including joist reinforcement, channel and HSS curb.
 - a) Install burglar bars at skylights supplied by detention package
- 33) Provide all parapet steel including where noted on S514
- 34) Provide all interior and exterior stairs, railings, guardrails, brackets, pans, stringers, mezzanine guardrails and etc.
- 35) Provide bent steel closure plates at day room interior security storefronts where precast panels connect precast embeds per A602/A2, A602/C2, A850/F4 and similar locations. Weld to HM detention frame as shown. Frames to be installed prior to plate installation.
- 36) Provide all mezzanine level steel framing, deck and etc for a complete system.
- 37) Provide all steel channels at edge of mezzanine slabs (A530/A10 and S401/07 typical) and other locations if applicable
- 38) Provide all catwalk steel including framing, handrails, etc for a complete system.
- 39) Provide and install/field weld storm shelter louver steel plates (S510/14 typical).
- 40) Provide all pour stops
- 41) Provide all grinding and bondo of all welds provided by this Scope of Work for a finished ready to paint system.
- 42) Provide all mechanical chase frames
- 43) Provide safety cables for any 2nd level that require fall protection including at mezzanines. Provide mounting brackets, additional uprights and cable.
- 44) Provide bent steel plates at control room glazing at C10, C8, C6, C4, & C2 on A850 and similar conditions.
- 45) Provide storm shelter steel per S201/02
- 46) Provide all permanent steel shown to brace/support items to precast such as S515/01, 02 typical
- 47) Provide all medallion support steel per S514/08 including steel plate standoffs
- 48) Provide opening framing/support framing for roof hydrant per S513/3

g. Rough Carpentry

- 1) Provide all interior and exterior wood blocking, sheathing, nailers, and framing.
- 2) Provide all exterior sheathing including sheathing at back of metal stud framed parapets, behind metal panels, skylight curbs, and at soffits per A430/E7 typical
- 3) Provide all wood blocking
 - a) Provide wood blocking at knee walls per G130 wall type P7.
 - b) Provide fire treated OSB at padded walls per A530/H5
- 4) Provide blocking at parapets
- 5) Provide blocking at roof area dividers/roof height transitions
- 6) Provide blocking at roof penetrations
- 7) Provide blocking at roof expansion joints

- 8) Provide blocking at roof hatches
- 9) Provide blocking at roof ladders
- 10) Provide blocking at all roof curbs
- 11) Provide blocking at exhaust fan roof penetrations
- 12) Provide blocking at skylights
- 13) Provide blocking at scuppers
- 14) Provide blocking at gutters
- 15) Provide blocking at soffits
- 16) Provide blocking at fascia(s)
- 17) Provide all wood blocking around all doors, storefronts, curtain walls, louvers, borrow-lites and other openings as shown
 - a) Blocking located in precast shall be provided under precast bid package
- 18) Provide bracing for all door frames to prevent racking during drywall installation
- 19) Provide all blocking for all millwork including base cabinets, wall cabinets, full height cabinets, shelving/brackets, countertop brackets and window sills
- 20) Provide blocking for all handrails
- 21) Provide blocking for all toilet partitions
- 22) Provide blocking for all restroom accessories
- 23) Provide blocking for all TV brackets and message monitors
- 24) Provide blocking for network rooms including sheathing for mounting networking equipment to walls including A101 keynote 6
- 25) Provide blocking for all interior and exterior signage
- 26) Provide blocking for all window treatments and roller shades. Refer to A431/G8 for typical detail.
- 27) Provide blocking for all fire extinguisher cabinets, first aid cabinets, and fire extinguisher brackets,
- 28) Provide blocking for Knox Box
- 29) Provide blocking for all IV and cubical curtain tracks, refer to A200/H11 for typical detail
- 30) Provide blocking for all mounting wall stops, automatic operator push buttons, card readers and all other wall mounted door hardware
- 31) Provide blocking all marker boards, tack boards, sliding markerboards, map rails, and other visual display items
- 32) Provide blocking for access doors/panels
- 33) Provide blocking for all lockers as shown including locker base per A700/ D4 typical
- 34) Provide all in-wall blocking for all wall hung items including items furnished by Owner
- 35) Metal strap blocking may be used in lieu of wood blocking at Contractor's option
- 36) Provide all fasteners and bolts as necessary to install items included in this Scope of Work
- 37) Include all necessary coordination of in-wall blocking locations with Subcontractors and other trades
- 38) Provide temporary guardrails for all areas required per OSHA standards including but not limited to all staircases, and interior raised platforms such as the mezzanines. Include all required maintenance until installation of permanent guardrails. Refer to project schedule.
- 39) Provide all covers and barricades at slab openings and other areas required by OSHA standards or CORE's safety manual. Include all required maintenance until installation of permanent items. Refer to project schedule.
- 40) All wood in contact with concrete shall be pressure treated. All wood in concealed spaces shall be fire treated
- 41) Provide temporary door openings at the 1st floor exterior doors for material access, with 2x framing, plywood, and hardware.

- 42) Include 2x wood stud framed temporary enclosures with 10 mil string reinforced visqueen for exterior openings. Construction temporary enclosures to resist high wind loads present at the project site. Include maintenance and repair of openings as necessary.
- 43) Provide void insulation fill at top of precast wall and deck per A430/E9
- h. Security Joint Sealants**
- 1) Provide all security/pick-proof sealants/caulking for penetrations and assemblies including pick proof caulking in the secure perimeter per A100 general security note 4.
 - 2) Provide all security caulking and backer rod at hollow metal frames (detention and non-detention).
 - 3) Provide all pick proof/security caulking at stainless steel frames
 - 4) Provide all pick proof/security caulking at aluminum frames.
 - 5) Provide all pick proof/security caulking at door thresholds, see A801/A6 typical
 - 6) Provide all pick proof/security caulking at overhead coiling/sectional doors
 - 7) Provide all security caulking at detention toilet units, toilet accessories and other equipment
 - 8) Provide all pick proof/security caulking at security glazing/frames
 - 9) Provide pick proof/security caulking for precast panels.
 - 10) Provide all foam-in place insulation in precast panels where both side of panel are sealed with pickproof/security caulking.
 - 11) Provide all additional pick resistant sealant at all interior chamfer that receive rubber wall base per Contract Documents. Refer to A400 precast general note 7
 - 12) Provide pick proof/security continuous sealant and backer rod around wall sleeves penetrating wall, deck and roof assemblies.
 - 13) Provide pickproof/security caulking of masonry expansion joints
 - 14) Provide all security caulk at head of wall, bottom of wall and wall transitions for drywall/CMU/Precast partitions. Refer to G130 for typical details.
 - 15) Provide pick proof/security caulking at columns per A102 keynote 16
 - 16) Provide pick proof/security caulking at backsplashes at secure perimeter and where noted.
 - 17) Provide security sealant at metal plank ceiling per A200 detail H10
 - 18) Provide pick proof/security caulk at top of resilient, cove and epoxy base
 - 19) Provide pick proof/security caulking at mezzanine deck slab joints per S510/16, 17 typical
 - 20) Provide pick proof/security caulking where slab on grade abuts precast within the secure perimeter per A430 detail A8 typical
 - 21) Provide pick proof/security caulking at exposed non-welded steel connections. Refer to A530/A10 for typical details
 - 22) Provide pick proof/security caulking around interior bollards per A531/A8
 - 23) Supply paintable caulk where required
- i. Aluminum, Glass & Glazing**
- 1) Provide all glass and glazing systems per drawings and specifications
 - 2) Provide all non-security exterior aluminum framed storefronts including all glass, mullions, framing, and associated items
 - 3) Provide all non-security interior aluminum framed storefronts including all glass, mullions, framing and associated items
 - 4) Provide all non-security aluminum framed curtain walls including all glass, spandrel glass, mullions, framing and associated items
 - 5) Provide all insulated panels
 - 6) Provide all unit skylights including all curbs, internal gutters, thermally broken construction and related *non-security* fall protection screens

- a) Provide metal liner panel, receiver, trims and sealant at skylights per A151 detail A4 typical
- 7) Provide all insulated-properties, color, coatings, opacity, tinting, fire ratings, and tempering door glass and frames as specified
- 8) Provide all gaskets, clips, anchors, jointing, drainage, flashings, anchoring, shims, back rods, sealants, glazing tape, break metal trims, miscellaneous glazing materials, caulking (including exterior and interior primary caulking), and related appurtenances as necessary for a complete watertight system
- 9) Provide all aluminum doors and frames and related door lites, aluminum sidelites, transoms and borrowed lites. This includes all related lites/glazing
- 10) Install all hardware and cores for aluminum doors furnished by door supplier. Card reader, power supplies, wall switches, battery backups, will be installed by others. Furnish and install all pull/push sets, thresholds and weatherstripping
- 11) Include coordination of all doors and frame hardware preparation including for access control and security and detention hardware. Include coordination of raceways with access controls
- 12) This Contractor is responsible for reviewing the door hardware submittal to confirm compatibility with material supplied by this Contractor and notifying the CM of any discrepancies. Include coordinating of raceways with access controls and security and detention hardware.
- 13) Includes all locks and cylinders for Aluminum doors as required. Includes coordination of Keying with Owner and Door Hardware Supplier and security and detention hardware.
- 14) Provide all auto operators, push buttons, and bollards for mounting buttons
- 15) Provide all glass for wood doors, non-detention hollow metal doors and non-detention hollow metal framed openings including all sidelites, transoms, and borrow lites
- 16) *Removed*
- 17) Provide all insulation and taping where insulation is located behind spandrel glass or other glazing systems include where shown on A430/E4
- 18) This Contractor shall remove and dispose of temporary partitions installed in glazing openings by others. Include hauling of all removed material to dumpsters provided by general trades.
- 19) Provide all non-security sealants, backer rods, break metal, gasketing, and flashings necessary for complete systems provided under this Scope of Work. This includes primary interior and exterior caulk as shown and specified
- 20) Provide all anchors, shims, flashing, clips, glazing tape, drainage, accessories, fasteners, and adjusting per the specifications and manufacturers' recommendations
- 21) Provide all testing per specification including water testing and per manufacturers' recommendations.
- 22) Provide all warranties as specified and manufacturers' recommendations.
- 23) Provide all mockups
- 24) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 25) Provide all shop drawings and engineering as required
- 26) Provide removal of all stickers, buttons, and clean up of errant caulking at all items installed under this Scope of Work. Final cleaning by others
- 27) Provide all safety etching/labels must be visible and note covered by mullions at all safety glazing
- 28) Provide pre-installation conference with manufacturer rep
- 29) Provide all lifts, scaffolds, and hoisting for this Scope of Work

- 30) Provide colors from manufacturer's full range. Include all cost premiums associated with providing specified colors.
- 31) All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- 32) Ensure all material is installed without damage. Damaged material will be sent back for repair or replacement.
- 33) All detention glazing and frames to be provided by Detention Bid Package
- 34) Provide black aluminum wire mesh insect screen and frame at overhead doors. See RFI 95
- 35) Provide field water spray test per section 08 44 13 part 3.2
- 36) Provide prefinished aluminum closure flashing/sill/jambes to match curtainwall, refer to A800 detail E12 for typical detail

j. Architectural Millwork

- 1) Provide all finish carpentry and millwork
- 2) Provide all casework including base, wall, full height and other built-in cabinets including all hardware and hardware preps
- 3) Provide all wood shelving with associated standards, supports, brackets, and coat rods
- 4) Provide all plastic laminate ADA panels with finished ends
- 5) Provide all PLAM and solid surface sills
- 6) Provide all PLAM, solid surface, and quartz counters, countertops and backsplashes including all exposed and concealed brackets
- 7) Provide caulking for this Scope of Work including for all backsplashes and window sills
- 8) Provide ~~all non-concrete components of booking desk reception desk complete, reception desk to be shop fabricated to greatest extent feasible~~
- 9) Provide all wood, trims, closure panels, caps, and accent pieces
- 10) NA
- 11) Provide all seaming of countertops per manufacturer's requirements and include caulking as required.
- 12) Provide all locks at cabinet doors, cabinet drawers, tote cabinets, doors, etc. include keyed a-like if required during a keying meeting with client to review cabinets
- 13) Provide ~~all~~ cardboard protection over all countertops
- 14) Provide all sink cut outs, grommets, medallions, finished ends, scribes, closure pieces, trash pullouts, shims, filler panels/pieces, end panels, edge-banding, fasteners, anchors, *non-security* caulking and other items as necessary for a complete system
- 15) All trim to be pre-finished (when called out to be stained and varnished. Primer only when called to be painted)
- 16) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 17) Provide all ~~survey, staking and~~ layout as necessary to complete the bid package Scope of Work. ~~Construction Manager will provide onsite benchmarks~~
- 18) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 19) All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be

- considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- 20) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.
 - 21) Include coordination as required with plumber for sink cut out templates
 - 22) Include puttying of nail holes in shop stained wood trim
 - 23) provide plastic lamination shelves, adjustable standards, closet rods and brackets per contract documents. Include PVC edge banding where shown. Refer to A700 for typical details
 - 24) Provide all fabric wrapped tack surface per contract documents.
- k. Non-Detention Hollow Metal Doors, Frames, & Hardware**
- 1) Provide all non-detention hollow metal doors, wood doors, hollow metal frames and finish hardware.
 - 2) Provide all non-detention hollow metal borrow lites and storefronts.
 - 3) Wood doors to be supplied prefinished
 - 4) Hollow metal doors and frames to be supplied primed, Supply touch-up kits
 - 5) Provide all lite kits/glazing stops for field glazing for items provided under this Scope of Work.
 - 6) Provide all construction cores and control keys for use during construction at exterior doors. Core to be returned at the end of the project.
 - 7) Provide non-security mastic at door thresholds
 - 8) Include supply of aluminum door hardware for installation by glazier
 - 9) Include coordination of all doors and frames hardware prep including for access controls, security and detention hardware, and aluminum doors. *Provide all access control/electrified hardware in door hardware schedule unless noted otherwise*
9)a) Card readers and power supplies to be provided by security electronics provider.
 - 10) Provide all door and window bucks, spreaders, etc. for masonry and drywall installations to occur and maintain openings
 - 11) *Removed*
 - 12) Include all specified keying and keying meetings with the Owner. Include collaboration in keying meeting with the Contractor and Owner representatives.
 - 13) Provide all field welding necessary to install hollow metal storefronts and borrow lites.
 - 14) Provide welded hollow metal frames, knocked down frames are not permissible for the project schedule.
 - 15) Provide rated doors and frames, and all associated labels and tagging, as required for those in rated assemblies. This includes storm rated doors/frames/hardware
 - 16) Include all required accessories including silencers, supports, anchors, inserts, bolts, fasteners, glazing stops, and etcetera. All door hardware is to be labeled by opening to match the hardware schedule.
 - 17) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
 - 18) Ensure all doors, frames, hardware, etc. are undamaged upon delivery
 - 19) Provide all ~~survey, staking and~~ layout as necessary to complete the bid package Scope of Work. *Construction Manager will provide onsite benchmarks*
 - 20) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
 - 21) Provide all non-security sealant, backer rod and caulking for standard hollow metal frames and borrow lites.
 - 22) All items provided for anchoring of frames and hardware to be as specified including any required detention grade items as outlined in the Contract Documents.
- I. Overhead Coiling and Sectional Doors**

- 1) Provide doors that comply with project manuals including wind load strength, slat material, factory finishing, hood enclosures, guides, electric operators, manual crank operators, R-Value, etc
- 2) Provide structural steel three angle guides and track guides including all welding to embed plate per A801/C12 and A800/G6 typical
- 3) Include complete operators ~~and control stations/switches~~ installation. Coordinate with the electrical Subcontractor for power.
- 4) Coordinate with Contractor for steel and in-wall blocking support
- 5) Provide all locks as required. Coordinate keying with Owner and Contractor
- 6) Include Owner demonstration and training as required.
- 7) Provide all testing and final adjustments as required to ensure proper and safe operation.
- 8) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 9) Provide all ~~survey, staking and~~ layout as necessary to complete the bid package Scope of Work. ~~Construction Manager will provide onsite benchmarks~~
- 10) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 11) All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- 12) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.
- 13) ~~Provide insert screen per details~~
- 14) Provide all tracks, hardware, seals and etc. for a complete installation
- 15) Provide all non-security caulking around opening ~~framesframes~~

m. Removed

n. Metal Studs/Drywall/Insulation/Ceiling Package

- 1) Provide all heavy and light gauge metal stud framing including, studs, channels, furrings, joists, hat channels, bracing, bridging, kickers, deflection tracks, and all other cold formed framing.
 - a) Provide wall stabilizer posts at knee walls. Refer to G130 wall type P7 for typical details.
- 2) Provide all delegated design and engineering for cold-formed metal stud framing including licensed engineer's stamp on shop drawings
- 3) Provide all gypsum board products including moisture resistant gypsum where required by Contract Documents.
- 4) Provide all tile backer board, provide taping if required by manufacturer
- 5) ~~Provide all drywall at reception desk~~~~Removed~~
- 6) Provide bullet resistant/ballistically rated fiberglass panels
- 7) Provide abuse/impact resistant drywall where noted
- 8) Provide security mesh in gypsum board/metal stud assemblies.
- 9) All drywall returns at windows/storefront/curtain wall as indicated. Separate mobilizations for this work may be required
- 10) Provide all taping and finishing of gypsum board products per 092900 part 3.6 D
- 11) ~~NA/Removed~~
- 12) Provide all non-security caulking of drywall assemblies to storefronts and curtain walls
- 13) Provide coordination with MEPFP trades for penetrations in walls

- 14) Provide all insulation unless noted otherwise including in-wall batt insulation, blown-in insulation and spray insulation
 - a) Provide batt insulation at soffits per A430/E7 typical
- 15) Provide vapor barrier at building exterior walls where shown
- 16) Provide all acoustic ceilings and associated grids
 - a) Provide ACT-1 through ACT-3
- 17) Provide all gypsum ceilings and associated framing
 - a) Provide GB security ceilings
- 18) Provide all hard ceilings, soffits, and bulkheads and associated framing, wires, etc
- 19) Provide all wall angle, fasteners, trapeze hangers, hangers, hanger wires, hold down clips, main runners, tees, fasteners, seismic clips, etc. for a complete ceiling installation
- 20) Provide all uni-strut for bridging as required
- 21) *Removed*
- 22) Provide rough-ins for fire extinguisher cabinets and other Division 10 recessed items. Refer to G130/A12 for typical detail.
- 23) Provide all fasteners, corner beads, J-beads, hangers, clips, anchors, control joints, backplates, and other accessories as required for a complete installation of Items provided under this Scope of Work
 - a) Provide Simpson clips where cold form framing attaches to structural steel (S514/01, 02 and 03 typical details) including all fasteners/welding required.
- 24) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 25) Provide all layout as necessary to complete the bid package Scope of Work.
- 26) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 27) All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- 28) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.
- 29) All trade packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work
- 30) All bid packages are responsible for their own daily clean-up to the dumpsters supplied
- 31) Include all mockups as specified for your Scope of Work including removal of any non-in-situ mockups
- 32) Provide all maintenance stock/extra materials as specified for your Scope of Work
- 33) Provide all firestop and non-security caulking/putty for items provided under this scope of work. Provide all assemblies as detailed and per UL designation
 - a) Provide all mineral wool safing/deck infill
 - b) Provide all light gauge closure plates for head of wall assemblies provided under this scope of work.
 - c) Provide all non-security caulking/fill material for head of wall, base of wall and where this assembly abuts dissimilar assemblies such as precast, structural steel, masonry as determined by construction sequence.
- 34) Provide all framing for shades, coiling doors, overhead doors, and etc. pockets as required.
- 35) Provide suspended hard ceilings, including framing, wires, and etc.
- 36) provide all furring assemblies

- 37) Provide sheet metal plate at top of metal stud wall per S515/04
- o.** *NA/Removed*
- p.** **Flooring & Tile Package**
- 1) Provide all carpet where shown
 - 2) Provide all walk off carpet
 - 3) Provide all luxury vinyl tile where shown
 - 4) Provide all rubber tile
 - 5) Provide all ~~17eemed17r17ve17eemed17r17ve17chluter17ve17eemed17tve~~ static dissipative vinyl composition tile
 - 6) Provide all resilient base and cove base where shown including locations where base is shown but flooring is provided by others (such as sealed concrete)
 - 7) Provide all transitions including transitions from tile to other flooring systems
 - 8) Provide all floor and wall tile including all tile cove base and tile backsplashes. Provide grout as specified for all tile work.
 - a) Provide extra floor tile (RT1) per note 5/A910
 - 9) Provide grout sealer
 - 10) Provide crack isolation membrane with full coverage under floor tile
 - 11) Provide all ~~17eemed17r~~ Schluter trims at exposed tile edges
 - 12) Provide all cleaning and removal of grout and setting materials from face of tile upon install completion
 - 13) Provide all floor expansion joints as required for this Scope of Work
 - 14) Provide all required minor floor preparation as necessary to prepare for flooring installation, including filling saw cuts in slabs (control joints) with specified material, filling construction joints and nail holes in slabs with specified material, filling column diamond box outs with specified material, and minor leveling and grinding. Include sweeping and cleaning flooring areas prior to floor installation.
 - 15) Provide moisture testing as required per manufacturer instructions for items installed under this scope of work prior to installation; provide results to the Construction Manger in writing. Refer to section 09 6813 part 3.2 for additional information.
 - 16) *Removed*
 - 17) Provide all miscellaneous accessories including resilient or aluminum edge/transition strips, reducers, adhesives, mastics, leveling compounds, setting materials, primers, leveling and patching compounds, and other accessories for a complete installation
 - 18) Provide all non-security joint sealants to complete this Scope of Work. Includes caulking to all adjacent materials as required.
 - a) Provide all non-security caulking at top of resilient/cove base
 - 19) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
 - 20) Provide all survey and layout as necessary to complete the bid package Scope of Work.
 - 21) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
 - 22) Install flooring per the manufacturer's recommendations to maintain all warranties. Notify Construction Manager if manufacturer's recommendations conflict with any contract document provisions
 - 23) All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.

- 24) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.
- 25) All trade packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work
- 26) All bid packages are responsible for their own daily clean-up to the dumpsters supplied
- 27) Include all mockups as specified for your Scope of Work including removal of any non-in-situ mockups
- 28) Provide all maintenance stock/extra materials as specified for your Scope of Work
- 29) This contractor shall be required to inspect all flooring prior to installation, for any areas that are deemed by this contractor to require excessive floor prep, notify the Construction Manager in writing before doing the work. Floor prep done without CORE's approval will not be entitled to additional compensation

q. Epoxy Flooring

- 1) Provide all epoxy flooring with integral cove base per Contract Documents
- 2) ~~Provide floor preparation as necessary to install epoxy floor on concrete subfloor containing moisture reducing admixture including light shot blast (brush blast) of concrete subfloor~~ *Removed*
- 3) Provide all cleaning and non-security caulking of joints, sealants, transition strips, and attic stock as required.
 - a) Provide all non-security caulk at top of epoxy base per details on A900
- 4) Provide all required, minor floor preparation as necessary to prepare for flooring installation, including machine scrub, filling saw cuts in slabs (control joints) with specified material, filling construction joints and nail holes in slabs with specified material, filling column diamond box outs with specified material, and minor leveling and grinding. Include sweeping and cleaning of flooring areas prior to flooring installation
- 5) If Subcontractor determines an area requires excessive floor prep, written notification to the Contractor (and written approval from the Contractor) is required before proceeding with the additional floor prep work. Extra floor prep done without Contractor's prior approval is not entitled to additional compensation.
- 6) Protect surrounding finishes as needed during installation of items under this Scope of Work
- 7) Provide moisture testing as required per manufacturer instructions prior to installation; provide results to the Construction Manager in writing
- 8) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.
- 9) All trade packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work
- 10) All bid packages are responsible for their own daily clean-up to the dumpsters supplied
- 11) Include all mockups as specified for your Scope of Work including removal of any non-in-situ mockups
- 12) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 13) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 14) Provide all survey and layout as necessary to complete the bid package Scope of Work.

r. Painting

- 1) Provide painting of new walls, ceilings, soffits and bulkheads. Provide block filler where required.
 - a) Paint concrete walls where noted, refer to A601 booking desk details.

- 2) Provide primer and finish coats per Contract Documents.
 - 3) Include final sealer on flooring areas scheduled to received sealed concrete floors as a final finish
 - 4) Provide prepping and painting of all new hollow metal doors, steel detention, and frames
 - 5) Provide prepping and painting of all exposed steel including columns, beams, bracing, steel joists and decking
 - a) Paint burglar bars and exposed steel at skylights per A151/A4 typical
 - 6) Provide prepping and painting of all exposed pipes, ducts, hangers, and all other exposed MEP items
 - 7) Provide painting of interior bollards
 - 8) Paint exposed millwork brackets and ledgers. Refer to A700.
 - 9) *Removed*
 - 10) Paint precast panels per contract documents
 - 11) Provide all painted floor lines
 - 12) Paint underside of mezzanine floor *where noted*
 - 13) Paint all exposed gas and water piping per P000 keynote 20. This includes gas piping on roof and exterior of building.
 - 14) ~~Provide all non-floor epoxy coatings as specified and where required by Contract Documents~~*Duplicate item removed*
 - 15) Paint all stairs, treads and stair railings, refer to A530 for typical details
 - 16) Paint all guardrails, steel deck edges, steel bent plates at openings.
 - 17) Paint all exposed embeds.
 - 18) Paint downspout boots per detail on C125
 - 19) Paint steel embed blocks per A531/C5.
 - 20) Paint all detention items requiring field finishing
- s. **Signage**
- 1) Provide all interior and exterior signage including dimensional letters, panel signs and medallion signage.
 - 2) Provide signage noted on G101 for storm shelter/tornado safe room
 - 3) Provide signage permit per C100 keynote 5
 - 4) All items to be prefinished/shop painted
- t. **Toilet Partitions**
- 1) Provide all toilet compartments and urinal screens
- u. **Toilet Accessories**
- 1) Provide all non-detention toilet accessories per specification and toilet accessory schedule on A600
- v. **Fire Extinguishers & Cabinets**
- 1) Provide all first aid cabinets
 - 2) Provide all fire extinguishers
 - 3) Provide all fire extinguisher cabinets
 - 4) Provide knox box with tamper switch
 - 5) Includes final inspection and certified tagging of extinguishers
- w. **Lockers**
- 1) Provide all prefinished metal lockers including doors, padlock hasps, sloped top, number plates, coat hooks, hinges, filler panels, end panels and other accessories for a complete system.
 - 2) All lockers to be all welded construction
- x. **Window Shades & Curtains**
- 1) Provide window shades per project documents.
 - 2) Provide shades per materials, fabric and colors noted in interior finish schedule and specifications.

- 3) Drive chain and chain retainer to be installed in a manner where shades are fully operational and operate without impacting one another. Final retainers install location to be confirmed with the Contractor and Architect prior to start of installation.
- 4) ~~Provide all connect all low voltage wiring required. Electrical contractor will provide power~~ *Removed*
- 5) Provide all survey and layout as necessary to complete the bid package Scope of Work.
- 6) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
- 7) Provide colors from manufacturer's full range if not specified. Include all cost premiums associated with providing specified colors.

y. Flagpoles

- 1) Provide all flags poles including concrete base, excavation, backfill, setting, flags and accessories as specified and as required for a complete system
- 2) Include engineering

z. Kitchen Equipment

- 1) Provide all foodservice equipment
- 2) Provide all non-security caulking of equipment
- 3) provide all starters, VFDs, controls, special plugs, etc for equipment

aa. Equipment

- 1) Install and/or furnish equipment per equipment schedule on A600.
- 2) Install owner furnished visual display items including tack boards and marker boards
- 3) Provide all non-security caulking of equipment
- 4) provide all starters, VFDs, controls, special plugs, etc for equipment

bb. Commercial Laundry

- 1) Install and/or furnish equipment per equipment schedule on A600
- 2) Provide commercial washer and dryer
- 3) Provide all non-security caulking of equipment
- 4) provide all starters, VFDs, controls, special plugs, etc for equipment

cc. ~~Mobile Storage Shelving (alternate)~~ *Removed*

- ~~1) Provide manual rolling storage unit per A102 keynote 14. Mount track on concrete slab.~~
- ~~2) Provide all grouting of rails for level installation~~
- ~~3) Provide fire retardant raised floor / ramp for ADA compliant installation~~
- ~~4)1) Provide all carriages, drive/guide system, wheels, face panels, shelves, accessories adjusting, cleaning and Owner demonstration as specified~~

dd. Acoustic Treatments

- 1) Provide all acoustic wall panels AWP1
- 2) Provide all field measuring necessary for fabrication, installation and as-built drawings
- 3) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- 4) Provide all layout as necessary to complete the bid package Scope of Work.

ee. Expansion Joint Covers

- 1) Provide all architectural expansion joint covers including joint shown on A531/D8

E. Bid Package 04 – Civil Package

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications(listed items are complete unless noted otherwise) :

- a. Division 00 Complete
 - b. Division 01 Complete
 - c. 003132 Geotechnical Data
 - d. 079200 Joint Sealant [As applicable]
 - e. 311000 Site Clearing
 - f. 312000 Earth Moving [As Applicable]
 - g. 321123 Aggregate Base Courses
 - h. 330500 Common Work Results for Utilities
 - i. 331415 Site Water Distribution Piping
 - j. 334100 Storm Utility Drainage Piping
3. Alternates: See section 012300 – Alternates
4. Allowances:
- a. Include a **\$5,000** allowance for field tile conflict and relocation and removing unknown obstructions.
 - b. Include a **\$20,000** allowance for maintenance, regrading and dress up of temporary access roads/laydown areas as well as pavement aggregate subbase areas utilized as access/laydown areas. Include multiple mobilizations to accomplish this work. Refer to RFI 109.
 - c. Include an allowance of **\$50,000** for lime stabilization for building pad and pavements.
 - d. Include an allowance of **\$10,000** for storm, water and sanitary connections and tap fees. Per RFI 53.
 - e. All allowances will be for use as directed by the Construction Manager.
 - f. Any allowances listed above are independent of any items listed below in Section 5 – Scope of Work. Allowances are not intended to cover the costs of any items listed in the Scope of Work.
 - g. Each allowance shall be a separate line item within the schedule of values for each pay application.
 - h. Refer to 01 21 00 Allowances for additional information.
5. **Scope of Work**
- 1) **This bid package shall provide all applicable items noted under part 1.3 A of this specification “scope applicable to all bid packages”**
 - 2) Scope breakouts below are provided for organization purposes only. Bidders for this package shall provide a complete bid for all items listed under this bid package Scope of Work.
- a. **Site Demolition and Earthwork**
- 1) Provide all site demolition and clearing. Provide all associated haul-off and disposal
 - 2) Demolished items by this bid package shall not be disposed of in the General Trades dumpster
 - 3) Include all site stripping, vegetation removal and disposal
 - 4) Include all erosion control and SWPPP measures including daily while on-site and removal as directed by the Construction Manager. Include filing out and maintaining SWPPP inspection reports while on-site. Erosion Control includes:
 - a) Silt Fence
 - b) Inlet protection/baskets for all existing and new inlets in the area of work
 - c) Temporary seeding of areas disturbed by this Contractor. Temporary seeding per C001 seeding note 1. This contractor shall provide reseeding per L001 specifications part 3.8 if reseeding is required due to inadequate maintenance of the specified erosion control measures.
 - d) Concrete Washout
 - e) Erosion Control Blankets, provide blankets at locations per C102 Erosion control note 7.
 - f) Ditch Checks/Straw Bales
 - g) Stabilized Construction Entrance

- 5) Include dust control measures as specified, include all temporary water costs including water connection, metering, trucking, and fees as necessary
- 6) *Removed*
- 7) *Removed*
- 8) *Removed*
- 9) Include all site/mass excavation work including grading, compaction, subgrade preparation and all work necessary to bring site to specified grades. Provide positive drainage away from all buildings, walls, columns, and walkways. Provide grass swales where noted.
- 10) Include stripping of topsoil at depths indicated on geotechnical report, specifications or drawings, whichever is deeper.
- 11) Stockpile topsoil onsite separately from fill soil.
- 12) Dispose of surplus topsoil on site by either deepening respread depths or respreading at location on-site at direction of Construction Manager.
- 13) Provide topsoil for all planting beds and islands per L101
- 14) Include respreading topsoil to specified depths. Import additional topsoil if required
- 15) Include buildup of building pad to subgrade using suitable fill material in lifts as specified in either geotechnical report or specifications, whichever is stricter
- 16) Stockpile excess cut dirt separate from topsoil
- 17) Building up berms or loose excess soil on-site
- 18) Load, truck, haul-off and legally dispose of all unstable spoils
- 19) Include import of suitable fill material if necessary
- 20) Include proof rolling of structural fill areas with procedures recommended in the geotechnical report. Proof roll subgrade immediately after topsoil removal to determine field soil conditions
- 21) Include excavation and grading for new pavement and walk areas. All backfilling of sidewalks, pavement, and curb & gutter once these areas are complete.
- 22) Include "coring"/excavation as necessary to install aggregate base at walkways. Refer to RFI 47.
- 23) Provide compacted granular trench backfill where the gas service installed by others crosses paving areas
- 24) Provide all aggregate base for walks, curbs, flumes, concrete paving and other site concrete items
- 25) Provide all aggregate base for asphalt paving
- 26) This contractor shall undercut 24" of unsuitable soils to 5' outside the building pad and backfill it with imported granular material to the subgrade elevation. This will be a backfill depth will be 18" deep at the 6" slab, 20" deep at 4" slabs, etc as required to achieve the subgrade elevation. Refer to RFI 3.
- 27) This contractor is responsible for locating underground utilities by contracting and scheduling the local joint utility locating service prior to the execution of any earthwork, utility, and/or excavation work. All results to be provided to Construction Manager for as-built documentation purposes
- 28) ~~This contractor is responsible for locating all private underground utilities by engaging a private utility location firm prior to the execution of any earthwork, utility, and/or excavation work. All results to be provided to Construction Manager for as-built documentation purposes~~ *Removed*
- 29) Provide all permits, fee and inspections for this Scope of Work including any required right of way permits
- 30) All flagging and traffic control for your scope of work. Provide a right of way permit if required
- 31) Provide and maintain tree protection. Trees to be protected with snow fence in a perimeter at least twice the diameter of the tree canopy to avoid root damage

- 32) Include street cleaning for debris and mud tracked on streets by this Contractor's operations within 4 hours and daily
- 33) *Removed*
- 34) This Contractor shall review the geotechnical report and comply with all requirements and recommendations *unless noted otherwise in this bid package scope or the Contract Documents*
- 35) Provide rip rap at curb cuts and any locations not covered by the storm line item below.
- 36) This contractor shall haul off-site 175 CY of spoils generated by general trades contractor (aggregate piers).
- 37) Provide temporary aggregate roads/laydown/parking areas as noted on site logistics plan.
 - a) Roads at proposed seeded/*lawn* areas shall be a Tytar or Fabric separator with 6" depth recycled/reject with 4" depth CA-6 cap. Remove temporary roads at these areas at project completion and replace with topsoil. Placement and removal locations and timelines only as directed by the Construction Manager.
 - b) Where temporary roads are noted at paved locations such as light duty pavement, heavy duty pavement, sidewalks, exterior housekeeping pads, etc this Contractor shall provide additional recycled/reject concrete or CA-6 below the permanent CA-6 base called for in the details on C111 to provide a minimum of 10" of aggregate regardless of alternate selection or pavement depth/type. A fabric separator shall be provided as well for all temporary road locations.
 - c) Repair, maintenance, and final regrading of all temporary roads prior to concrete installation will be addressed via contingency "B" for this bid package.
 - d) Temporary roads will be utilized for construction traffic throughout construction and final paving will be installed near the end of the project as shown on the project schedule.
 - e) This contractor at their option and at no additional cost provide CA-6 at all locations reject/recycled concrete is called for. All recycled/reject concrete shall be covered by a minimum cap of 4" of CA-6.
- 38) Provide all dewatering of rainwater as required to complete this Scope of Work. Comply with NOI standards, refer to RFI 45

b. Storm Sewer

- 1) Provide complete site storm system to within 5' of the building. Include all piping, structures, castings, cleanouts, flared end sections, culverts, connections, excavation, beddings, backfill and additional items as required for a complete system
- 2) Provide compacted granular trench backfill at structural areas
- 3) Provide connection to existing manholes
- 4) Provide rip rap at outlets/culverts
- 5) Spoils to be hauled off-site, unless otherwise noted. Soils maybe used structural fill areas only if material complies with requirements in geotechnical report and specifications
- 6) Provide all dewatering of rainwater as required to complete this Scope of Work. Comply with NOI standards, refer to RFI 45
- 7) This Contractor shall review the geotechnical report and comply with all requirements and recommendations.
- 8) Provide all ~~sewer connection fees~~, permits and inspections including any required right of way permits
- 9) Provide all testing as specified

- 10) Provide all encasing or other approved means of separation of storm sewer as required at utility crossings
- 11) Provide downspout collection system to building and connection to storm sewer
- 12) Provide cast iron downspout boots per C125.
- 13) Provide all insulation shown on utilities beyond 5' from building

c. Sanitary Sewer

- 1) Provide complete sanitary sewer system to within 5' of the building including all piping structures, casings, castings, cleanouts, connections, excavation, beddings, backfill and additional items as required for a complete system
 - a) Provide sanitary piping from future city pump station to grinder pump manhole.
 - b) Provide grinder manhole and grinder pump
 - c) Extend sanitary from grinder pump/manhole to 5' outside of proposed building.
- 2) Provide compacted granular trench backfill at structural areas
- 3) Provide connection to existing manholes
- 4) Spoils to be hauled off-site, unless otherwise noted. Soils maybe used for structural fill areas only if material complies with requirements ins geotechnical report and specifications
- 5) Provide all sanitary ~~fees~~, permits and inspections including any required right of way permits
- 6) Provide all testing as specified
- 7) Provide all dewatering of rainwater as required to complete this Scope of Work. Comply with NOI standards, refer to RFI 45
- 8) This Contractor shall review the geotechnical report and comply with all requirements and recommendations
- 9) Provide all insulation shown on utilities beyond 5' from building

d. Water Service

- 1) Provide complete water service system. Water service shall be stubbed up ~~12"6"~~ above finish floor inside the building by this contractor *per P400/04*. Water service system includes but is not limited to all piping, hydrants, structures, castings, cleanouts, connections, thrust blocks, tees, valves, excavation, beddings, backfill and additional items as required for a complete system
 - ~~1)a)~~ *Provide PVC pipe sleeve for slab per P400/04*
- 2) Provide compacted granular trench backfill at structural areas
- 3) *Removed/NA*
- 4) Spoils to be hauled off-site, unless otherwise noted. Soils maybe used at structural fill areas only if material complies with requirements ins geotechnical report and specifications
- 5) Provide ~~tap fees~~, inspections, and permits for water service
- 6) Provide all testing as specified
- 7) Provide all dewatering of rainwater as required to complete this Scope of Work. Comply with NOI standards, refer to RFI 45
- 8) Provide all encasing or other approved means of separation water service as required at utility crossings
- 9) Provide all flushing and disinfection of water main piping as required
- 10) Provide all insulation shown on utilities beyond 5' from building

- e.** This Contractor shall review the geotechnical report and comply with all requirements and recommendations *unless noted otherwise in this bid package scope or the Contract Documents*

F. Bid Package 05 – Asphalt Paving

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Reference 1.3 “Bid Package Scopes of Work”, Line A “Scope Applicable to all bid package.”
3. Applicable Specifications(listed items are complete unless noted otherwise) :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 003132 Geotechnical Data
 - d. 079200 Joint Sealant [As applicable]
 - e. 321216 Asphalt Paving
4. Alternates: See section 012300 – Alternates
5. Allowances:
 - a. NA
6. Scope of Work
 - a. Provide all bituminous/asphalt paving at depths, courses, and locations per plans and specifications
 - b. *Removed*
 - c. Provide sweeping/cleaning asphalt between courses as required
 - d. Provide verification of grades prior to installation of paving
 - e. Provide patching of existing asphalt as needed where it abuts new materials. Sawcut and remove as required.
 - f. This Contractor shall review the geotechnical report and comply with all requirements and recommendations *unless noted otherwise in this bid package scope or the Contract Documents*
 - g. Aggregate base provided by civil bid package.
 - h. Provide separate mobilization for binder course and surface course
 - i. Provide all traffic control for this Scope of Work.
 - j. Maintain erosion control measures provided by civil bid package while on-site
 - k. **This bid package shall provide all applicable items noted under part 1.3 A of this specification “scope applicable to all bid packages”**

G. Bid Package 06 – Site Concrete

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications(listed items are complete unless noted otherwise) :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 003132 Geotechnical Data
 - d. 079200 Joint Sealant [As applicable]
 - e. 312000 Earth Moving [As Applicable]
 - f. 321313 Concrete Paving
 - g. 321713 Parking Bumpers
 - h. 321723 Pavement Markings
3. Alternates: See section 012300 – Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Provide all new site concrete items including all forming, pouring, form removals, finishing, curing, admixtures, and concrete accessories as specified and necessary for a finished concrete system for the following items:
 - 1) Sidewalks

- 2) Turndowns/Integral Curbs/thickened edges
 - 3) Curbs/Gutters
 - 4) Aprons
 - 5) Concrete Paving
 - 6) Dumpster Pads
 - 7) Paved Ditches/Flumes
 - 8) Provide monument sign foundations
 - 9) ~~Removed Provide all light poles bases including excavation and backfill~~
 - 10) Provide card reader pedestal foundations per SE102
- b. Provide curb cuts
 - c. Provide specified concrete curing and finishes
 - d. Provide all steel reinforcement, wire fabric and accessories for concrete provided under this Scope of Work
 - e. Housekeeping pads by MEPs *unless noted otherwise.*
 - f. Provide all joint sawing.
 - g. Provide all expansion and isolation joints where shown, provide jointing at locations specified or as shown
 - h. Provide all caulking of concrete joints where specified. Clean joints prior to caulking with methods specified.
 - i. Provide doweling and epoxying into paving/buildings where shown
 - j. Provide HDPE pipe bollards . Include excavation, concrete base, concrete filling and backfill as shown
 - k. Provide all detectable warning pads
 - l. Provide dust control measures as specified, include all temporary water costs, water connection, metering, trucking, and fees as necessary.
 - m. Load, truck, haul-off and legally dispose of all excess soil.
 - n. Provide all dewatering as it pertains to this Scope of Work. Comply with NOI standards, refer to RFI 45
 - o. Include coordination with Owner’s Testing Representative
 - p. Include street cleaning for debris and mud tracked on streets by this Contractor’s operations within 4 hours and daily
 - q. This Contractor shall review the geotechnical report and comply with all requirements and recommendations *unless noted otherwise in this bid package scope or the Contract Documents*
 - r. Provide all pavement markings on concrete paving. Provide pavement marking on asphalt paving if applicable.
 - s. Provide wheel stops/parking bumpers
 - t. Provide all ADA parking spot signage and post mounted signage including concrete filled bollards, posts, and signs. Include backfill and excavation.
 - u. Provide signage permit per C100 keynote 5.
 - v. Maintain erosion control measures provided by civil bid package while on-site
 - w. **This bid package shall provide all applicable items noted under part 1.3 A of this specification “scope applicable to all bid packages”**

H. Bid Package 07 – Building Concrete

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications(listed items are complete unless noted otherwise) :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 003132 Geotechnical Data

- d. 031000 Concrete Forming and Accessories
 - e. 032000 Concrete Reinforcing
 - f. 033000 Cast-in-Place Concrete
 - g. 072100 Thermal Insulation [As applicable]
 - h. 079200 Joint Sealant [As applicable]
 - i. 312000 Earth Moving [As Applicable]
3. Alternates: See section 012300 – Alternates
4. Allowances:
- a. NA
5. Scope of Work
- a. Provide all new building concrete items including all forming, pouring, form removals, finishing, curing, sealers, admixtures, and concrete accessories as specified and necessary for a finished concrete system for the following items:
 - 1) Building Slabs
 - 2) Thickened slabs
 - 3) Slab on deck
 - 4) Concrete benches/bunks. Refer to A530/F7 for typical details
 - 5) Provide all above grade slab concrete walls such as the booking desk wall.
 - 6) All other cast-in place concrete
 - b. Provide all foundations including all forming, pouring, bracing, shoring, anchorage, form removals/stripping, finishing, curing, and concrete accessories as specified and necessary for a finished concrete system for the following items:
 - 1) Continuous Footings
 - 2) Grade Beams
 - 3) Foundation walls
 - 4) Mat Slabs
 - 5) Provide monument sign base/foundation per S002/02. Install embed provided by steel supplier. Pour curbs/plinths after installation of precast panel and provide silicone joint sealant.
 - c. Install interior bollards with excavation, foundations, concrete filling, reinforcement and backfill supplied under general trades package.
 - d. This Contractor shall provide the permanent aggregate base (4", 6", etc) as shown in details S501/10,11 over the backfilled aggregate that is installed by the civil contractor prior to slab installation. Refer to RFI 3.
 - e. Provide back fill of all foundations, precast panels, and final grading after MEP installations.
 - f. Provide sloping of floor drains and showers, floor drains, etc per Contract Documents
 - g. Provide all door stoops including footings, foundation walls, isolated slabs, and aggregate fill
 - h. Provide fine grading of all subgrades as required. Include verification of grades. Immediately notify the construction manager of any improper grades before installing material. Earthwork contractor to leave grades at +/- 0.1". Provide final grading of subgrade materials as required. This contractor shall note that subgrade will be use used for construction activities including aggregate pier, steel, and precast installation.
 - i. Provide all excavation, benching, shoring, backfill, compaction and other earthmoving required to install items provided under this Scope of Work. Building Pad will be turned over to this Contractor at proposed subgrade by the earthwork contractor.
 - j. All suitable soils (as determined by testing agency) are to be left onsite and placed as directed by CORE. All unsuitable spoils or excess spoils to be hauled offsite and disposed of properly.
 - k. Provide all foundation insulation including all below grade insulation at foundations and located under slabs
 - l. *Duplicate item removed*

- m. Provide vapor retarder for slab on grade. Include taping seams and penetrations as necessary
- n. Provide all recessed slabs for showers, drains, freezer, padded rooms, etc as required
- o. *Removed*
- p. *Removed*
- q. *Duplicate item removed*
- r. Provide all formed form stops including at storm shelter slab
- s. Housekeeping pads by MEPPF unless noted otherwise
 - 1) This bid package shall provide the concrete generator pad per S501/16
- t. This contractor shall set 1 nut per base plate to the required elevation
- u. This Contractor shall include patching, grinding and repairs of all “honeycombed” areas and areas notes as “smooth/exposed” in Contract Documents such as the bookkeeping desk wall, concrete benches, concrete bunks, include all means and methods necessary to sufficiently consolidate concrete during concrete pours.
- v. Provide all openings and install sleeves provided by others in concrete work for other trades
- w. Provide all expansion, construction, isolation joints where shown, provide jointing at locations specified or as shown. Include all bond breakers and tooling of joints as required
- x. Provide all joint sawing.
- y. Provide all steel reinforcement, wire fabric and accessories for concrete provided under this Scope of Work
- z. Provide all non-security caulking of concrete joints were specified. Clean joints prior to caulking with methods specified.
- aa. Provide doweling and epoxying into slabs/foundations where shown
- bb. Provide all dewatering as it pertains to this Scope of Work. Comply with NOI standards, refer to RFI 45
- cc. Install all embedded concrete items furnished by others including anchor bolts, steel angles, steel plates, embed plates, etc
 - 1) Install recess cuff rings supplied by detention package. Refer to A530/F7
- dd. Grout base plates for steel columns
- ee. Provide asphaltic coating at columns prior to concrete pour
- ff. Provide all layout for this Scope of Work
- gg. *Removed duplicate item*
- hh. Include street cleaning for debris and mud tracked on streets by this Contractor’s operations within 4 hours and daily
- ii. Provide repair and maintenance of erosion control measures installed by others during these scopes of work
- jj. Regrade all ruts caused by construction activities prior to placement of aggregate base.
- kk. This Contractor shall review the geotechnical report and comply with all requirements and recommendations *unless noted otherwise in this bid package scope or the Contract Documents*
- ll. Provide fiber mesh where shown for items provided under this Scope of Work
- mm. Provide and install rubbing of exposed finished concrete for smooth finish
- nn. “Bird Seed” aggregate shall not be permitted on site for structural backfill or other applications as this impedes site staging and logistics.
- oo. Provide all rigid insulation form void materials and cardboard void forms
- pp. **This bid package shall provide all applicable items noted under part 1.3 A of this specification “scope applicable to all bid packages”**

I. Bid Package 08 – Precast

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications(listed items are complete unless noted otherwise) :

- a. Division 00 Complete
- b. Division 01 Complete
- c. 034500 Precast Architectural Concrete
- d. 072100 Thermal Insulation [As applicable]
- e. 079200 Joint Sealant [As applicable]
- 3. Alternates: See section 012300 – Alternates
- 4. Allowances:
 - a. NA
- 5. Scope of Work
 - a. Provide all insulated and un-insulated precast wall panels per plans and specifications.
 - 1) Provide monument precast sign per S002/02 including any temporary bracing necessary and embeds. Include coordination *with* building concrete bid package.
 - b. Precaster's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Engineer's determination shall be final and adjustment to the contract as a result of engineer's determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
 - c. Includes all panel reinforcement, insulation, prestressing tendons, and concrete materials required for complete fabrication.
 - d. Include all labor, rigging, hoisting, flagging, tag lines, spotters, equipment, and loose hardware as necessary for complete system erection.
 - e. Include delivery, hauling permits, escorts, and freight charges as necessary for panel delivery.
 - f. Include street/sidewalk permits as necessary to this contractor's work. Precaster is responsible for any permits needed to deliver their product to the site.
 - g. Include layout, field measure, and pre-installation survey for this contractor's work. Benchmarks/primary control points to be provided by others.
 - h. Include coordination of all openings.
 - i. Includes coordination of window openings, door openings, mechanical, electrical, plumbing, fire protection, stairs, balconies, bar joists, and all structural elements.
 - 1) Slope all sills at openings per contract documents for positive drainage.
 - j. Include block-outs/sleeves for all openings 10"x10' or larger
 - k. Include coordination of openings smaller than 10"x10" which are to be core drilled by the relevant trade
 - l. *Removed duplicate item*
 - m. Include shop drawings coordination with the Construction Manager and mechanical, electrical, plumbing, fire protection, steel and concrete contractors for all openings, block-outs, sleeve, cast-in items, etc. in conjunction with the project bidding and construction schedule. Refer to 00 3113a – Schedule. Such coordination cannot start until after the other bid packages are awarded. Schedule precast shop drawings and fabrication accordingly.
 - n. Include treated wood blocking cast into panels as necessary for openings.
 - o. Include coordination of lifting and hanging devices at precast assemblies as well as hanger tabs per specification.
 - p. Include coordination of installation for electrical conduit, boxes, fixtures, and devices that are furnished and installed by others and intended to be cast into precast panels at the precast supplier's plant. Include administrative time as necessary to facilitate the coordination of all electrical items to be cast into panels.
 - q. Include furnish and installation of all bearing plates and welding plates necessary for connections to structure.
 - r. Provide all embedded items that are located in precast assemblies including:
 - 1) bearing plates
 - 2) weld plates

- 3) opening closure plates such as those for coiling/section overhead doors, hollow metal door frames, hollow metal borrow lites, detention windows, detention doors, etc
- 4) connection plates for mezzanines, stairs, guardrails, etc
- 5) Embeds for mounting accessories, fixtures, equipment etc other than those mounted by steel embed blocks. Steel embed blocks on A531/C5 are supplied by detention package and installed by masonry bid package.
- s. Include installation of all items embedded into precast assemblies that are supplied by others unless noted otherwise including items/accessories supplied by detention supplier. See item P above for electrical.
- t. Includes all welding and connections made for a complete installation.
- u. Include welding of items cast into precast panels to other items cast into precast panels unless noted otherwise.
- v. Include welding of all items furnished by this contractor to other items furnished by this contractor unless noted otherwise.
- w. Include all structural inserts, headers, bolts, weld plates, angles, dowels, keyways, and korolath as shown on plans and specifications.
- x. Include additional rental for temporary bracing and deadmen as needed. Install deadmen as required for panel bracing. Include removal of deadmen if required. Refer to project schedule. Brace all panels to exterior side of building where possible.
 - 1) Refer to schedule (00 31 13a) included with addendum 1 for sequencing and activity durations. Temporary bracing is required until permanent connections/support are completed including completion of erection structural steel.
- y. Include dewatering as required for this Scope of Work. Comply with NOI standards, refer to RFI 45
- z. Provide coatings/primers/material per specification.
- aa. Include touch up paint/galvanizing coat for items installed by this contractor caused by this contractor's work.
- bb. Include all accent bands, reveal patterns, chamfers, shop applied panel finishes, and edging as indicated.
- cc. Trucks cannot be staged on-site due to site constraints, schedule deliveries accordingly.
- dd. Include any temporary shoring, temporary bracing, and temporary connections as required as well as any delegated engineering required. Include removal of temporary shoring, bracing, and connections as required.
- ee. Include patching of panels from picking eyes, hoisting methods, etc.
- ff. Include panel patching at all exposed locations for a complete finish. Provide smoothing, grinding, patching, etc for all exposed precast walls that receive paint/finish for a finished product.
- gg. *Removed/NA*
- hh. *Removed/NA*
- ii. Include notched precast beams and pocket joints as indicated.
- jj. Include additional mobilization to set "leave out panels" noted on site logistics plan.
- kk. Include all submittals, mix designs, shop drawings, samples, and delegated design per the Contract Documents. Provide engineering and shop drawings signed and sealed by a licensed structural engineer in the State of Illinois.
 - 1) Provide design for future loading and addition per Contract Requirements
- ll. Include embed layout drawings to be submitted one week from the date of approved shop drawings.
- mm. Include spot cleaning of concrete panels as specified. Remove all mud and dirt from panels caused from this contractor's delivery and installation process.
- nn. Include supply, installation, and removal of crane pads if required for this contractor's work.
- oo. Include removal of any unused materials furnished by this contractor.

- pp. Include mockups and samples as specified. Include removal of mockups from the site once directed by the Construction Manager.
- qq. Coordination for testing as outlined in any applicable specifications.
- rr. Precast supplier/erector shall hold PCI certification levels as indicated on drawings or within any applicable specifications.
- ss. Include daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the General Trades Package
- tt. Access into the footprint of the building will be allowed to erect the interior precast panels. Access points are shown on the site logistics plan. This contractor will be responsible for providing, installing, and removing any additional crane pads.
- uu. Provide all non-security precast caulking, back rod and all foam in place insulation inside precast assemblies. At locations where one side of panel receives pick proof caulking this Contractor shall provide the foam-in place insulation.
- vv. **This bid package shall provide all applicable items noted under part 1.3 A of this specification “scope applicable to all bid packages”**

J. Bid Package 09 – Masonry

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications(listed items are complete unless noted otherwise) :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 042223 Architectural Concrete Unit Masonry
 - d. 042900 Engineered Unit Masonry
 - e. 072100 Thermal Insulation [As applicable]
 - f. 078413 Penetration Firestopping [As applicable]
 - g. 078443 Joint Firestopping [As applicable]
 - h. 079200 Joint Sealant [As applicable]
3. Alternates: See section 012300 – Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Provide all concrete block and all items necessary for a complete masonry system per the Contract Documents.
 - b. Provide concrete masonry (CMU) walls including interior partitions, structural masonry, and masonry foundations where shown.
 - 1) Provide all decorative and burnished face masonry
 - c. Provide all bullnose block and soaps per the Contract Documents
 - d. Provide all reinforcing steel, ladder reinforcement, and grout in masonry walls, bond beams, and masonry lintels.
 - e. Provide all masonry accessories including, ties/anchors, clips, fasteners, and all miscellaneous accessories necessary for complete masonry systems
 - 1) Provide all mineral wool/sound insulation at head of masonry walls.
 - f. Provide all masonry and stone mortaring, provide mix designs per specifications. Mortar to be non-staining
 - g. Provide installation of all steel embeds, bearing plates, anchor bolts, fasteners, or other items embedded in masonry wall grout for connections to other assemblies. Embedded items furnished by others unless noted otherwise
 - 1) Install all top of CMU wall steel channels/kickers furnished by general trades bid package, refer to G130 for typical details.

- 2) Install all top of CMU wall embed and bent plates for furnished by general trades bid package. Refer to G130 for typical details.
- 3) Install steel plates and anchor bars per A531/E4 including any required welding.
- h. Provide grouting of beam pockets in masonry walls
- i. Provide chemical clean and washdown of masonry walls as specified.
- j. *Removed/NA*
- k. Provide neoprene bearing pads where structural components bear on masonry walls.
- l. ~~Caulking provided by general trades~~ *Removed/NA*
- m. This contractor shall be responsible for installing embeds, anchors, grouting, temp shoring, checking of level, checking to confirm frames are square, and to assure all MEP rough-ins are maintained during the installation of the walls around all hollow metal detention and non-detention frames located in masonry walls.
- n. Provide grouting of detention and non-detention hollow metal frames including where frames are located in/abut to precast such as A850/F4. Do not use anti-freezing agents in grout of door frames. Provide all insulation in door frames prior to grouting these frames to allow for installation of door hardware (i.e. hinges, closers, etc.)
- o. Provide bituminous coatings for grouted hollow metal frames and steel embed blocks
- p. Provide the installation of lintels with a piece weight under 200 lbs. supplied by general trades.
- q. Provide field and office coordination with the Steel Fabricator and Erector, Building Concrete Contractor, Precast Supplier, Glazer, metal stud framer, and all other relevant trades.
- r. Provide temporary shoring and bracing of masonry walls as required to install items Provided in this Scope of Work
- s. Provide all layout and field measurement necessary to complete this Scope of Work.
- t. Provide coordination and scheduling of testing required for this Scope of Work with Owner's Testing and Inspection Agency
- u. For debris tracked on streets by this Contractor's operations, the contractor shall provide all street sweeping as required for maintaining clean streets and adjacent drives daily and within 4 hours. provide flagman as necessary.
- v. Provide daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the BP-04 General Trades
- w. Provide clean-up of areas disturbed by this Contractor during completion of this Contractors final punch list work.
- x. Provide all portions of specification sections 07 21 00 Thermal Insulation, 07 84 13 Penetration Fireproofing, and 07 92 00 Joint Sealants as they relate to this Scope of Work.
- y. Provide masonry mockup
- z. This Contractor shall bring temporary water onsite for their operations
- aa. Include all stenciling and identification of rated assemblies provided under this Scope of Work
- bb. Provide all firestop and non-security caulking/putty for items provided under this scope of work. Provide all assemblies as detailed and per UL designation
 - 1) Fire and non-fire caulked expansion joints (A500/H2 typical)
 - 2) Provide all mineral wool safing/deck infill
 - 3) Provide all light gauge closure plates for head of wall assemblies provided under this scope of work.
 - 4) Provide all non-security caulking/fill material for head of wall, base of wall and where this assembly abuts dissimilar assemblies such as precast, structural steel, masonry.
- cc. Install and provide all welding of burglar bars furnished by detention package at all chases and HVAC openings including the following:
 - 1) Pipe chase bars at north and south chase of the mezzanine (A120/A10)

- 2) All interior wall, exterior wall, roof, floor, and duct opening greater than 6" within the secure perimeter area per A531/E4 and A100 general security note 6.

dd. This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"

K. Bid Package 10 – Roofing

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications(listed items are complete unless noted otherwise) :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 072100 Thermal Insulation [As applicable]
 - d. 072700 Air Barriers – Carlisle
 - e. 074213.16 Metal Plate Wall Panels – Dri-Design
 - f. 075323 EPDM Thermoset Single-Ply Roofing-Carlisle
 - g. 076200 Sheet Metal Flashing and Trim
 - h. 077100 Roof Specialties
 - i. 077200 Roof Accessories
 - j. 079200 Joint Sealant [As applicable]
3. Alternates: See section 012300 – Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. **Roofing**
 - 1) Provide complete membrane roofing system
 - 2) Provide adhered EPDM roof membrane as specified
 - 3) Provide cover board including gypsum board cover boards
 - 4) Provide roof insulation cant strips, insulation adhesive, crickets, taping, sealants for complete roof insulation system. Construct roof to achieve proper drainage and slopes as indicated by the Contract Documents. Include tapered insulation as required
 - 5) Provide all rigid insulation at the top/back of roof parapets.
 - 6) Provide all flashings, counter flashings, termination bars, drip edges, detailing, sealants, and other all items required for a complete watertight roof system. Provide flashing membrane up and over parapet walls.
 - a) Provide all saw cutting of reglets into precast wall and void sealant per A431/E10 typical
 - 7) Provide all flash-in and patch of roofing material at/around roof penetrations/openings as well as tie-in of these openings into the rest of the roof assembly for a complete and weathertight construction.
 - 8) Provide all prefinished sheet metal and stainless-steel copings/caps, scuppers, conductor heads, downspouts, fascias, soffits, and drip edges
 - a) Connect to cast-iron downspout boots provide by the civil bid package.
 - 9) Provide walk pads/pavers and all splash blocks
 - 10) Provide roof hatch(s) with guard rail system
 - 11) Include prefabricated roof curbs for all items supplied by this this bid package.
 - 12) Provide all anchors and fasteners necessary to complete this Scope of Work
 - 13) Provide specified manufacturer's and workmanship warranties.
 - 14) Provide temporary roofing measures required to maintain a fully watertight roof, this includes penetration/openings for skylights, roof drains, plumbing vent piping, mechanical unit curb openings, and other items that are shown on architectural,

- structural, and MEPFP plans. All roofs shall be weathertight at the end of each working day
- 15) All items supplied under this Scope of Work are to be pre-finished or finished as noted in by Contract Documents. All colors to be selected from manufacturer's full range unless noted otherwise
 - 16) Include all hoisting, unloading, and transport necessary to install items provided under this Scope of Work
 - 17) Include field testing per manufacturers' requirements and Contract Documents. This includes a water test at completion of roofing prior to turnover
 - 18) Include coordination and scheduling with roofing manufacturer for field inspections
 - 19) Include all permits and licenses required for this Scope of Work
 - 20) *Removed*
 - 21) Provide all safety/fall protection on the roof per OSHA requirements/standards.
- b. **Metal Wall Panels**
- 1) Provide complete metal wall panel system
 - 2) Provide all trims, j-channels, starters, flashings, gaskets, counter flashings, z-closures, jambs, cleats, and sealants as necessary for a watertight system
 - a) Provide J-channels and transition flashing where metal panels abut precast, refer to RFI 144
 - 3) Provide all metal soffit panels
 - 4) Provide all z-~~gurts~~*girts* and furring behind metal panels
 - 5) Provide all rigid insulation behind metal panels
 - 6) Provide expansion joints were shown.
 - 7) Provide all accessories, clips, fasteners, anchors, start track, shims, etc. for a complete installation
 - 8) Provide all joint sealants, butle tapes, urethane sealants, etc. as it pertains to your scope of work. Includes caulking between panels/materials and adjacent materials as required
 - 9) Ensure all material is installed without damage. Damaged material will be sent back for repair or replacement
 - 10) Ensure all metal panels are installed level and plumb
 - 11) All materials are to be prefinished
 - 12) Includes all required Mockups of each system to be installed for water-tightness test. Refer to 07 42 13 part 1.7
 - 13) Includes all coordination with other scopes to assure water-tight details form one scope to another
 - 14) Pre-Install meeting to be scheduled by installer prior to start of work with manufacturer rep
 - 15) *Removed duplicate item*
 - 16) Provide all survey and layout as necessary to complete the bid package Scope of Work.
 - 17) Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
 - 18) Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
 - 19) Provide all scaffolding, temporary shoring, guying, supports, bracing, and additional means and methods necessary to complete the bid package Scope of Work
 - 20) Include all delegated design as specified for your Scope of Work. This includes all engineering (by a licensed engineer) as well as the cost of design. Refer to 074213 part 1.4
- c. ~~Provide field touch up paint~~ **Air Barrier**
- 1) Provide all self-adhered membrane air barrier

- 2) Provide all detail coats, finish coats, drainage mats, foam board, sealant cants, reinforcing fabric, and accessories as required for complete installation.
 - 3) Provide all detailing of top of foundations and outside corners.
 - 4) Provide all coats as required to obtain a seamless membrane with the specified dry film thickness.
 - 5) Provide all preparation of gypsum board and plywood sheathing as necessary for air barrier installation including tapping of joints, caulking, and screw heads
 - 6) Wrap air and moisture barrier around all window bucks as detailed
 - 7) All adhesives, bonding agents, joint sealants, etc. are included for a complete installation.
 - 8) Provide all joint and penetration flashing tape as required. Including at metal wall anchors
 - 9) Provide all required fasteners per manufacturer's requirements
 - 10) Provide all mock-ups and water testing as required.
 - 11) Provide all lifts required for this scope of work.
 - 12) Pre-installation meeting to be scheduled by installer prior to work the manufacturer rep
 - 13) A water test is required after installation to confirm watertightness of assembly regardless of if test is noted in specification or not. This is required for quality control. Test shall be as outlined recommended by manufacturer/standard writer.
- d. Scope breakouts above are provided for organization purposes only. Bidders for this package shall provide a complete bid for all items listed under this bid package Scope of Work.
- e. **This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"**

L. Bid Package 11 – Detention Equipment

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications(listed items are complete unless noted otherwise) :
 - a. Division 00 Complete
 - b. Division 01 Complete including 013513.16 Special Project Procedures for Detention Facilities
 - c. 042223 Architectural Concrete Unit Masonry[as applicable]
 - d. 055963 Detention Enclosures [as applicable]
 - e. 072100 Thermal Insulation [As applicable]
 - f. 079200 Joint Sealant [As applicable]
 - g. 08 3113.53 – Security Access Doors and Frames
 - h. 083463 Detention Doors and Frames [As applicable]
 - i. 084413 Aluminum Glazed Curtain Wall Systems [As applicable]
 - j. 085113 Security Windows
 - k. 086510 Exterior Detention Windows
 - l. 087163 Detention Door Hardware
 - m. 088853 Security Glazing
 - n. 095753 Security Ceiling Assemblies
 - o. 102813.63 Detention accessories
 - p. 111916 Detention Gun Lockers
 - q. 111990 Detention Cell padding
 - r. 125500 Detention Furniture
 - s. 280500 Common Work Results [as applicable]
 - t. 280510 Cabinets and Enclosures for Electronic Security
 - u. 281300 Access Control System

- v. 282300 IP Video Communication System
- w. 282350 Electronic Security Systems Network Integration
- x. 283105 Auxiliary Control System
- y. 284619 Security Automation System
- z. 284620 Video Graphic User Interface System
- aa. 285123 IP Audio Communication System
- 3. Alternates: See section 012300 – Alternates
- 4. Allowances:
 - a. NA
- 5. Scope of Work
 - a. Provide all detention equipment, furnishings, and accessories
 - 1) Provide items on detention equipment schedule per sheet A130
 - a) Provide stainless steel drawer and cabinet at package pass per A530/F5 and equipment schedule item E020 on A600
 - b. Provide all detention glass and glazing.
 - c. Provide all detention bar grating and woven mesh including at skylights
 - d. Provide detention enclosures per 05 5963 as follows
 - 1) All burglar bars shall be furnished under this bid package for installation by other bid packages including for skylights, chases, and HVAC openings.
 - 2) Provide woven rod mesh assemblies (at rec yard roll up door)
 - 3) Security Grilles shall be provided by HVAC bid package
 - 4) Perforated Plate security vents shall be provided by HVAC bid package
 - 5) Perforated plate security vents with backup plate shall be provided by HVAC bid package
 - 6) Tool resisting steel, perforated plate security vents shall be provided by HVAC bid package
 - e. Provide all detention windows
 - 1) Provide stainless steel talk through frames with bullet resistant glazing and paper pass cutouts. Refer to details H4 and G5 on A600 and A4 on A601 for typical conditions
 - f. Provide all detention wall systems
 - g. Provide all cell safety padding
 - h. Provide all security electronics, including paging system, CCTV, door controls, etc including
 - 1) Provide cabinets and enclosures for electronic security including:
 - a) Provide free standing racks and accessories
 - b) Provide NEMA rated wall mounted equipment enclosures
 - 2) Provide access control system including:
 - a) Access system controllers and power supplies
 - b) Access system workstation and monitor
 - c) Access system software
 - d) HID multiclass proximity card readers
 - e) Single sided badge printer, camera, and tripod
 - f) HID proximity cards
 - 3) Provide IP video communication system including:
 - a) IP detention grade cameras
 - b) Surveillance workstation computers
 - c) Monitors
 - d) Video management system software, application servers and storage arrays at specified resolution
 - e) Power supplies
 - f) Surge protection
 - g) Microphones
 - 4) Provide electronic security systems network integration including:

- a) Layout of network scheme
- b) Linking requirements
- 5) Provide auxiliary control system including:
 - a) Cell and dayroom lighting relays
 - b) Receptacle control relays
 - c) Water Control relays
 - d) Relay control cabinets wired and completely tested
- 6) Provide security automation system including:
 - a) Programmable Logic Controllers/door relay racks or cabinets wired and completely tested
 - b) PLC software
 - c) PLC programming
 - d) Network switching equipment.
 - e) Wall and desk mounted duress stations
 - f) Door release push buttons
 - g) Uninterruptible Power Supplies
 - h) Spares as required.
- 7) Provide video graphic user interfaces including:
 - a) Touch Screen operator stations including CPU, monitor and misc. equipment
 - b) programming software and Servers
 - c) Touch screen system programming as specified
 - d) Security management system including CPU, monitor and report printer
 - e) security management system software
 - f) Security management system programming
 - g) Software review
- 8) Provide IP audio communication system including:
 - a) Audio racks wired and completely tested
 - b) Intercom master stations
 - c) Paging speakers, back boxes, and security grills
 - d) Paging Horns
 - e) Intercom stations
 - f) Call buttons
 - g) Intercom/camera pedestal
- 9) Provide all specialty back boxes for this Scope of Work including equipment racks, cabinets, camera housings and speaker back boxes
- 10) Include factory testing as specified/required by manufacturer
- 11) Provide individual UPS power for all security electronic control station and head end equipment
- i. Provide all detention gun lockers
- j. Provide all control stations
- k. Provide (furnish, install, deliver, etc) all detention doors and frames including where frames ~~are~~ abut masonry and precast. Refer to schedule on A801
 - 1) Provide all stainless-steel frames such as frame type SS on A801/F10 including all welding and grinding of welds.
 - 2) Provide all detention frames shown on A801/F10 including metal glazing stops with tamper resistant screws and glazing tape at control room windows
- l. Provide all detention door hardware
- m. Supply and deliver all items that are to be cast-in/grouted into precast, masonry or cast in-place concrete to that respective bid package. Include coordination.
- n. Provide security access doors/panels at detention areas.
- o. *Removed/NA*
- p. Weld and grind smooth all field welds for items installed under this scope of work.

- q. This Contractor shall submit all required items per 01 3513.16 part 1.4. Inability to meet any requirements of this specification shall be ground for disqualification of the submitted bid.
- r. Provide all tamper proof fasteners
- s. All trade packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work
- t. All bid packages are responsible for their own daily clean-up to the dumpsters supplied
- u. Provide all survey and layout as necessary to complete the bid package Scope of Work.
- v. Provide all field measuring necessary for fabrication, installation, and as-built drawings as necessary to complete the bid package Scope of Work
- w. Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
- x. Provide testing as specified for your Scope of Work
- y. Provide scheduling and coordination of any Owner third party testing agencies for all specified testing by Others pertaining to your Scope of Work
- z. Provide all training and owner demonstration as required as specified for your Scope of Work
- aa. Provide all maintenance stock/extra materials as specified for your Scope of Work
- bb. Include all mockups as specified for your Scope of Work including removal of any non-in-situ mockups
- cc. All items provided under this Scope of Work shall be provided per Contract Documents. Manufacturer's standard details, finishes, insurance, etc. shall not be relied upon as the basis of pricing. Architects' determination shall be final and adjustments to the contract as a result of Architects' determination shall not be considered. Submit substitution and RFI requests regarding non-standard items prior to bid in compliance with section 00 2113 INSTRUCTION TO BIDDERS.
- dd. Provide all security-plank security ceiling systems including perimeter support c-channel molding pre-finished with expansion anchors
- ee. Provide all bullet proof/resistant glazing and bullet films including security glazing SG-3B with associated curtain wall frame at road patrol. Refer to A300/H10, A430/E7, and A431/G8/E8 for typical details
- ff. Provide all aluminum voice/talk-thru and frame security glazing including associated stainless-steel sills. Refer to A530/F2 for typical details.
- gg. Provide curtain wall stainless steel plate for ballistic properties at ballistically rated aluminum frames per A430 and A431/G8 typical details
- hh. Provide detention locking gate hardware for the gate within the outdoor detention enclosure
- ii. Provide security screen at overhead doors per A801/C12
- jj. Provide all non-foodservice/food grade stainless-steel countertops including hat channels, backsplashes, sound deadening material, refer to A700 D2 for detail.
- kk. Provide all special inspections for items installed under this scope of work per section 20 0548 part 3.3
- ll. ~~This bid package may submit requested modifications to the sample subcontract prior to contract execution, the Owner and reserves all rights to reject this bid if terms are not mutually agreeable by the Construction Manager and Owner. Removed~~
- mm. **This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"**

M. Bid Package 12 – Fire Protection

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications(listed items are complete unless noted otherwise) :

- a. Division 00 Complete
 - b. Division 01 Complete
 - c. 072100 Thermal Insulation [As applicable]
 - d. 078413 Penetration Firestopping [As applicable]
 - e. 078443 Joint Firestopping [As applicable]
 - f. 079200 Joint Sealant [As applicable]
 - g. 083100 Access Door and Panels [As applicable]
 - h. 200548 Seismic Controls for MEPFTR Systems
 - i. All division 21 specifications complete
3. Alternates: See section 012300 – Alternates
4. Allowances:
- a. NA
5. Scope of Work
- a. Include new sprinkler system complete per Contract Documents. Systems shall meet all applicable codes. The system shall start at the last control valve on the backflow preventer.
 - b. Include all specified flow tests and hydraulic calculations.
 - c. Include engineered fire sprinkler drawings.
 - d. All new sprinkler heads to be centered in acoustical ceiling tiles or spaces shall be installed as specified. Include concealed heads as required where exposed heads will conflict with cabinets and other adjacent finishes.
 - 1) Provide institutional heads where noted.
 - 2) Provide sprinkler guards/protection where noted
 - 3) Provide additional heads as required to provide complete coverage for all stairs, overhead doors, coiling doors, etc.
 - e. Include fire department connection and piping
 - f. Include system risers with control valves, main drains, gauges, thrust blocks, flow switches, and all accessories necessary for a complete system.
 - g. Include testing, certification, and drain of system. Provide leak testing as specified.
 - h. Piping shall not be run above electrical or IT equipment at mechanical rooms and IT rooms
 - i. Include installation of all electronic flow and tamper switches. Wiring and final connection by Electrical Contractor.
 - j. Include coordinating and scheduling with all local utilities and authorities having jurisdiction. Include all trade permit and inspection fees.
 - k. Include coordination with the Owner's Commissioning Agent.
 - l. Include core drilling of all openings smaller than 10"x10" in precast assemblies for penetrations necessary to complete this Scope of Work. Include sleeves for these openings.
 - m. Include cutting/patching, sleeves, and/or core drilling of all wall penetrations for this Scope of Work
 - n. Provide all labeling and identification required for this scope of work required.
 - o. Provide all layout of roof penetrations to be cut in by steel bid package
 - p. Include access doors/panels as required to access items installed under this Scope of Work.
 - q. Provide coordination drawings and include all required coordination with other MEPFP trades.
 - r. Include daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the General Trades bid package.
 - s. Include clean-up of areas disturbed by this Contractor during completion of this Contractor's final punch list work.
 - t. Provide sprinkler coverage per G000 general note 12
 - u. Provide all firestop, *non-security* caulking, putty, sleeves, mineral wool sleeve infill, sealant, etc at all pipe penetrations through walls, ceilings, floors, and roofs for penetrations by this Contractor. Provide all assemblies as detailed and per UL designation

- v. Provide all special inspections for items installed under this scope of work per section 20 0548 part 3.3
- w. Provide all housekeeping pads for items provided by this Bid Package. Include all surface prep, anchor bolts and bonding agents.
- x. **This bid package shall provide all applicable items noted under part 1.3 A of this specification “scope applicable to all bid packages”**

N. Bid Package 13 – Plumbing

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications (listed items are complete unless noted otherwise) :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 072100 Thermal Insulation [As applicable]
 - d. 078413 Penetration Firestopping [As applicable]
 - e. 078443 Joint Firestopping [As applicable]
 - f. 079200 Joint Sealant [As applicable]
 - g. 083100 Access Door and Panels [As applicable]
 - h. 200548 Seismic Controls for MEPFTR Systems
 - i. 312000 Earth Moving [As Applicable]
 - j. All division 22 specifications complete
3. Alternates: See section 012300 – Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Provide all interior plumbing per Contract Documents.
 - b. Provide all excavation, backfill, compaction, and spoil removal for this Scope of Work. Include import of backfill material as required.
 - c. Provide dewatering for this Scope of Work Comply with NOI standards, refer to RFI 45
 - d. All water work shall begin the blind flange stubbed up inside the building by the utility contractor.
 - e. Provide, install, flush, test, and certify all backflow preventers including the BFP for the fire sprinkler system.
 - f. Provide new sanitary, drain, and vent system including, support valves, and all miscellaneous accessories starting from site utility cap-off located 5’ outside the building footprint for a complete system. Provide final connection to site utilities.
 - 1) Civil bid package to provide grinder pump and manhole.
 - g. Provide building storm sewer system and all miscellaneous accessories starting from site utility cap-off located 5’ outside the building footprint for a complete system. Provide final connection to site utilities.
 - h. Provide all gas piping starting at gas meter (detail on P401/7 is not updated). Provide all regulators, roof supports, hangers, etc.
 - i. Provide all plumbing fixtures, valves, solenoid valves, pumps, sump pumps, and plumbing accessories per Contract Documents.
 - j. Provide blocking at plumbing fixtures
 - k. Provide all insulation required for this Scope of Work.
 - l. Provide condensate piping for mini-splits and other HVAC equipment if required.
 - m. Provide coordinating and scheduling with all local utilities and authorities having jurisdiction. Provide all trade permit and inspection fees.
 - n. Provide all start-up and Owner Training per Contract Documents
 - o. Provide coordination with the Owner’s Commissioning Agent.
 - p. Provide all plumbing hookups and connections for equipment provided by others.

- 1) Provide gas to commercial dryer
- q. Provide core drilling of all openings smaller than 10"x10" in precast assemblies for penetrations necessary to complete this Scope of Work. Include sleeves for these openings.
 - r. Provide cutting/patching, sleeves, and/or core drilling of all wall penetrations for this Scope of Work
 - s. Provide access doors/panels as required to access items installed under this Scope of Work.
 - t. Provide coordination drawings and include all required coordination with other MEPFP trades.
 - u. Provide all layout of roof penetrations to be cut in by general trades
 - v. Provide daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the General Trades package.
 - w. Provide clean-up of areas disturbed by this Contractor during completion of this Contractors final punch list work.
 - x. All trade packages are responsible for clean-up of areas disturbed by them during completion of their final punch list work
 - y. Provide all labeling and identification required for this scope of work required.
 - z. Provide all survey, staking and layout as necessary to complete the bid package Scope of Work.
 - aa. Provide all field measuring necessary for fabrication, installation and as-built drawings as necessary to complete the bid package Scope of Work
 - bb. Provide all unloading, hoisting, shakeout, and material handling of items installed in the Scope of Work
 - cc. Provide testing as specified for your Scope of Work
 - dd. Provide all training and owner demonstration as required as specified for your Scope of Work
 - ee. Include coordination and scheduling of all tier subcontractors under this Scope of Work
 - ff. Provide water management system per 22 4600
 - gg. Provide grease interceptor as shown. Provide exterior grease waste and vent piping to interceptor.
 - hh. Provide sand and oil separator as shown
 - ii. Provide exterior "soiled" piping from building to interceptors.
 - jj. Provide all heat trace for items under this Scope of Work per contract documents.
 - kk. Provide and set elevation of all floor drains, trench drains, shower pans, etc. Coordinate with flooring for elevations.
 - ll. Provide onyx shower pans
 - mm. Provide all drain pans as required.
 - nn. Provide roof hydrant as shown.
 - oo. Provide all motorized ball valves, pneumatic controls, and connections to security system
 - pp. Provide all flush valves with "FDD", electric controllers, actuator, transformer wiring, tubing, SOV, electronic controlled fixtures, PIEZO electric push buttons for a complete system.
 - qq. Provide all firestop, *non-security* caulking, puddy, sleeves, mineral wool sleeve infill, sealant, etc at all pipe penetrations through walls, ceilings, floors, and roofs for penetrations by this Contractor. Provide all assemblies as detailed and per UL designation
 - rr. Provide all special inspections for items installed under this scope of work per section 20 0548 part 3.3
 - ss. Provide all housekeeping pads for items provided by this Bid Package. Include all surface prep, anchor bolts and bonding agents.
 - tt. **This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"**

O. Bid Package 14 – HVAC

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications(listed items are complete unless noted otherwise) :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 055963 Detention Enclosures [as applicable]
 - d. 072100 Thermal Insulation [As applicable]
 - e. 078413 Penetration Firestopping [As applicable]
 - f. 078443 Joint Firestopping [As applicable]
 - g. 079200 Joint Sealant [As applicable]
 - h. 083100 Access Door and Panels [As applicable]
 - i. 200548 Seismic Controls for MEPFTR Systems
 - j. All division 23 specifications complete
3. Alternates: See section 012300 – Alternates
4. Allowances:
 - a. NA
5. Scope of Work
 - a. Provide all heating, ventilating, air conditioning, hydronics, and temperature control work per the Contract Documents.
 - b. Provide HVAC system and ductwork cleaning per Contract Documents.
 - c. Include rods, plates, washers, HSS/steel support, and any unistrut support for the mechanical units supports.
 - d. Provide all roof curbs and rails as required for this scope of work.
 - e. Provide all louvers including “architectural” louvers. Provide all flashings, fasteners, and sealants at louver openings.
 - f. Provide all start-up, Owner training, and maintenance service per Contract Documents.
 - g. Provide all manufacturer field services per Contract Documents
 - h. Provide all labeling and identification required for this scope of work required.
 - i. Provide all controls and programming, rough-in and wiring, certified testing, and balancing as required for a fully functioning system. Include temporary controls as needed to control units started prior to permanent network/data.
 - 1) Provide vandal resistant thermostat covers as shown
 - 2) Provide connection of BAS system to water management system if shown/specified
 - j. Provide HVAC water treatment, including system flush and measuring as required by the Contract Documents. Include all material required for the system flush. Any alternate methods shall be approved by the design team via a Substitution Request and all associated costs (i.e. water softener, salt, etc.) shall be included.
 - k. Provide extended warranties as required to meet Specifications in conjunction with the Project Schedule. Warranties shall start on the day the certificate of Substantial Completion is executed. Units to be started prior to Substantial Completion in accordance with the project schedule for startup, test and balance, and commissioning.
 - l. Provide early equipment start-up as required per the Project Schedule to provide required cooling, heating, temperature, humidity control, and space acclimation.
 - m. Provide all construction filters for equipment provided under this Scope of Work. Filters are to be replaced immediately prior to occupancy. Furnish, install, and maintain temporary filter media over all returns pulling air during construction.
 - n. Provide all labor, rigging, hoisting, flagging, tag lines, spotters, equipment, and loose hardware as necessary for complete system installation.
 - o. Provide coordinating and scheduling with all local utilities and authorities having jurisdiction. Include all trade permit and inspection fees.
 - p. Provide coordination with the Owner’s Commissioning Agent.

- q. Provide all hookups and connections for equipment provided by others. Include core drilling of all openings smaller than 10"x10" in precast assemblies for penetrations necessary to complete this Scope of Work. Include sleeves for these openings.
- r. Provide all layout of roof penetrations to be cut in by steel bid package
- s. Provide cutting/patching, sleeves, and/or core drilling of all wall penetrations for this Scope of Work
- t. Provide access doors/panels as required to access items installed under this Scope of Work.
- u. Provide coordination drawings and include all required coordination with other MEPFP trades.
- v. Provide daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the BP-04 General Trades
- w. Include clean-up of areas disturbed by this Contractor during completion of this Contractors final punch list work.
- x. Provide vehicle exhaust system including piping, controls, fittings, alarms, etc for a fully functioning system
- y. All louvers, dampers and installations of items under this scope of work shall comply with storm shelter requirements for items located in storm shelter.
- z. Provide fire/smoke dampers. Provide all backends/adapters as necessary to tie-in dampers to VESDA system if shown/specified.
- aa. Provide all water heater flues and intakes per M101.A plan note M17
- bb. Provide all duct insulation and insulation for this Scope of Work
- cc. This bid package shall weld all ductwork to adjacent steel if required. Provide final ductwork connection to bar frames as noted. Provide all welding of items installed under this scope of work to adjacent steel if noted.
- dd. Provide all steel angles at duct openings per E531/E4
- ee. Provide all security Grilles per section 05 5963 part 2.4
- ff. Provide all perforated Plate security vents per section 05 5963 part 2.5
- gg. Provide all perforated plate security vents with backup plate per section 05 5963 part 2.6
- hh. Provide all tool resisting steel, perforated plate security vents per section 05 5963 part 2.7
- ii. Provide all firestop, *non-security* caulking, puddy, sleeves, mineral wool sleeve infill, sealant, etc at all pipe penetrations through walls, ceilings, floors, and roofs for penetrations by this Contractor. Provide all assemblies as detailed and per UL designation
- jj. Provide all special inspections for items installed under this scope of work per section 20 0548 part 3.3
- kk. Provide all housekeeping pads for items provided by this Bid Package. Include all surface prep, anchor bolts and bonding agents.
- ll. **This bid package shall provide all applicable items noted under part 1.3 A of this specification "scope applicable to all bid packages"**

P. Bid Package 15 – Electrical

1. Overview – Bidder shall perform a complete scope of work for this bid package in accordance with all contract documents, drawings, specifications, and the elaborations below. This scope of work shall include all labor, materials, equipment, and related items necessary to complete the work.
2. Applicable Specifications(listed items are complete unless noted otherwise) :
 - a. Division 00 Complete
 - b. Division 01 Complete
 - c. 072100 Thermal Insulation [As applicable]
 - d. 078413 Penetration Firestopping [As applicable]
 - e. 078443 Joint Firestopping [As applicable]
 - f. 079200 Joint Sealant [As applicable]
 - g. 083100 Access Door and Panels [As applicable]
 - h. 200548 Seismic Controls for MEPFTR Systems [As Applicable]

- i. All division 26 specifications complete
 - j. All division 27 specifications complete
 - k. 280500 Common Work Results [As Applicable]
 - l. 280510 Cabinets and Enclosures for Electronic Security [As Applicable]
 - m. 281300 Access Control System [As Applicable]
 - n. 282300 IP Video Communication System [As Applicable]
 - o. 282350 Electronic Security Systems Network Integration [As Applicable]
 - p. 283105 Auxiliary Control System [As Applicable]
 - q. 284600 Fire Detection and Alarm [Complete]
 - r. 284619 Security Automation System [As Applicable]
 - s. 284620 Video Graphic User Interface System [As Applicable]
 - t. 285123 IP Audio Communication System [As Applicable]
 - u. 312000 Earth Moving [As Applicable]
3. Alternates: See section 012300 – Alternates
4. Allowances:
- a. Include an allowance of **\$8,000** for temporary electrical usage/meter fees/charges including electrical delivery, electrical supply, taxes, and other fees incurred for temporary power during construction operations. This allowance shall not be used for power to the project trailer as this is in the base bid scope.
 - b. All allowances will be for use as directed by the Construction Manager.
 - c. Any allowances listed above are independent of any items listed below in Section 5 – Scope of Work. Allowances are not intended to cover the costs of any items listed in the Scope of Work.
 - d. Each allowance shall be a separate line item within the schedule of values for each pay application.
 - e. Refer to 01 21 00 Allowances for additional information.
5. Scope of Work
- a. This contractor shall furnish and install power, new service, lighting, panels, outlets, devices, feeders, relay panels, inverters, security/data rough-in, breakers, feeders, site lighting, lighting controls, wire mold, power and final connections to devices such as overhead doors, coiling doors kitchen equipment and other equipment supplied by others for a complete electrical scope of work.
 - 1) Provide severs, racks, cable trays, j-hooks and all other necessary rough-in.
 - 2) Provide power and connections to all plumbing provided valve control systems and fixtures.
 - 3) Provide site conduits to monument signs, telecom, handholds, flagpole lights, monument sign lights, generator system, backlit medallions, lift stations, grinder stations, etc for fully functional systems.
 - 4) Provide rough-in, wiring and final connection for water management system if applicable.
 - b. Provide installation of bid package 1 and 2.
 - 1) Provide all setting, wiring, crane, and all items necessary to install the generator, ATS, and main switch board if not explicitly noted in bid package 1 and 2 to provide a fully functioning electrical system.
 - c. Provide diesel fuel for full initial fueling of generator
 - d. Provide all downstream/branch-circuit panelboards from the main distribution panel
 - e. Provide all conduit and rough-in for detention security monitoring and access control items
 - 1) This contractor shall be responsible for all 120/208/240 VAC branch circuits including conduit, wiring and connections from power distribution panels, terminal strips and/or receptacles in electronic control panels and/or electronic system devices.
 - 2) Provide complete raceway system for security electronics. The raceway system shall include but not be limited to conduit, wire troughs and flex conduit.

- 3) Include receiving head end equipment racks on site.
 - 4) Include setting of head end equipment racks and cabinets on site, with connections to raceway system.
 - 5) Provide all field device installation and terminations
 - 6) Provide aiming and focusing of cameras.
 - 7) Provide rough-in for video visitation system, video arraignment systems, video teleconferencing systems, A/V systems and tele/data systems
- f. Provide complete fire alarm system including all panels, devices, power supplies, wiring and delegated design.
- 1) Provide VESDA system complete including any necessary sample piping. Include all coring for sample piping.
- g. Include temporary power for the new building and construction trailer.
1. Provide buried conduit and removal at project completion for the construction trailer.
 2. Include utility fees associated with setting up and deactivating temporary service.
 3. Include (3) three-phase temporary power connections for other trades.
 4. Include connections for temporary HVAC equipment.
 5. Furnish, install, and maintain temp lighting at all areas of construction per OSHA standards.
- h. Electrical contractor to review all MEPFP drawings to ensure power is provided to all devices per these drawings.
- i. Provide wiring to emergency switches supplied and installed by other trades; coordinate with plumbing and mechanical contractors; reference the plumbing and mechanical drawings.
- j. Include all excavation, backfill, compaction, and spoil removal for this Scope of Work. Include import of backfill material as required.
- k. Include all layout and surveyor staking as required for installation of items included in this Scope of Work
- l. include electrical control, power, and alarm conduit, and wiring for fire protection pumps and equipment.
- 1) Provide power, conduit and final connection to grinder pump.
 - 2) Connect all sprinkler monitory devices to fire alarm per FP101 keynote F1
 - 3) Connect waterflow alarm to fire alarm per FP101 keynote F9. Provide power/rough in and final connection to alarm.
 - 4) Provide low ~~voltage~~ ~~voltage~~ wiring ~~from from~~ duct detector to remote test station per FP101 keynote F17
- m. Provide site conduits and hand holes for telecom/fiber/data per site plan C120
- n. Coordinate with the low voltage contractor for final camera and access control installation and rough-in needs. Rough-in by this contractor shall align with the project specification requirements. Refer to both the architectural plans, and detention equipment & door hardware schedule in addition to the electrical plans, for complete access control and electrified door hardware information and locations.
- o. Include wiring and final connection to all electronic flow and tamper switches.
- p. Includes annual inspections/testing as specified
- q. Include dewatering as necessary to install items provided under this Scope of Work. Comply with NOI standards, refer to RFI 45
- r. Include preparation, wiring, pads, conduit, cabinets, and other electrical accessories for electrical power and telecom services as specified in the Contract Documents.
- s. Include coordinating and scheduling with all local utilities and authorities having jurisdiction. Include all trade permit and inspection fees.
- t. Include all specified start-up and Owner training.
- u. Include extended warranties as required to meet Specifications in conjunction with the Project Schedule. Warranties shall start on the day the certificate of Substantial Completion

- is executed. Units to be started prior to Substantial Completion in accordance with the project schedule for startup, test and balance, and commissioning.
- v. Include early equipment start-up as required per the Project Schedule to provide required cooling, heating, temperature, humidity control, and space acclimation.
 - w. Include coordination with the Owner's Commissioning Agent.
 - x. Include all electrical hookups and connections for equipment provided by others. Include core drilling of all openings smaller than 10"x10" in precast assemblies for penetrations necessary to complete this Scope of Work. Include sleeves for these openings.
 - y. Provide all layout of roof penetrations to be cut in by steel bid package
 - z. Provide all labeling and identification required for this scope of work required.
 - aa. Include cutting/patching, sleeves, and/or core drilling of all wall penetrations for this Scope of Work
 - bb. Include access doors/panels as required to access items installed under this Scope of Work.
 - cc. Provide coordination drawings and include all required coordination with other MEPFP trades.
 - dd. Include street cleaning for debris tracked on streets by this Contractor's operations.
 - ee. Include daily clean-up of debris, waste, dirt, dust, waste, or other Construction impediments generated by this Scope of Work to the dumpsters supplied under the General Trades
 - ff. Include clean-up of areas disturbed by this Contractor during completion of this Contractors final punch list work.
 - gg. This Contractor shall include furnishing all cast-in electrical components and installation at the precast provider's plant. This includes items and field fixtures that this bid package is providing rough-ins for and/or field fixture installation but are supply by others such as the security electronics system. The electrical bid package shall assume hotel and per diem is required for their workers.
 - 1) The electrical bid package shall note all electrical boxes on the precast shop drawings.
 - 2) The electrical bid package shall have all cast-in electrical fixtures prepared in advance before panel production. The electrical bid package can put the fixtures together in their shop and bring them to the plant for production, or assemble them at the plant at their option.
 - 3) The electrical bid package shall ensure all electrical boxes are completely duct taped and marked on the tape each piece# that they go into.
 - 4) The electrical bid package shall include 5% extra material on hand in during production in the event that during casting some changes have to be made to avoid any interference with other items in the panel.
 - 5) The electrical bid package shall be at the precast plant during production of the panels to inspect them and make sure that the electrical boxes are located correctly in the panel.
 - 6) All electrical materials shall be delivered to the precast plant a couple of days before the production by the electrical bid package.
 - hh. Provide power and final connection for overhead door operators. Provide all conduit, cabling and final connections for the security electronic controls including items required to provide the door remote controls in central control
 - ii. Provide all disconnects, VFDs, Starters, motors, controls, actuators, etc, for a fully functioning system that are not shown explicitly to be provided by other bid packages on Contract Documents. This contractor shall review and confirm the responsibility for these items prior to bidding and submit an RFI if necessary items are not shown. No change orders will be issued for items related to this effort
 - jj. provide firestop box inserts for boxes as required per G136
 - kk. Provide protection of existing underground water and gas lines were proposed underground conduit crosses these existing lines.

- ll. Install TV monitors (E015) and message monitors (E016) provided by Owner. Provide TV/Monitor brackets. Blocking by general trades. Refer to A130 equipment schedule.
- mm. Provide all firestop, caulking, puddy, sleeves, mineral wool sleeve infill, sealant, etc at all pipe penetrations through walls, ceilings, floors, and roofs for penetrations by this Contractor. Provide all assemblies as detailed and per UL designation
- nn. Provide all special inspections for items installed under this scope of work per section 20 0548 part 3.3
- oo. Provide all housekeeping pads for items provided by this Bid Package unless noted otherwise. Include all surface prep, anchor bolts and bonding agents. Housekeeping pad for generator to be provided by concrete package per S501/16
oo-1) Provide all light poles bases including excavation and backfill
- pp. Install control panel for grinder pump per P401/10
- qq. Provide all lighting mounted under cabinets, refer to A700/D6
- rr. **This bid package shall provide all applicable items noted under part 1.3 A of this specification “scope applicable to all bid packages”**

Q. WORK BY OWNER/ NOT IN CONTRACT

- 1. Bid package 1 and 2 complete
- 2. Sanitary lift station, force main, and access drive per C110 keynote 22
- 3. Gas service to proposed building including Ameren tap fees/service design fees.
- 4. Laboratory and field testing for concrete, masonry, and steel.
- 5. Shielding of overhead power lines
- 6. Job Trailer
- 7. Third party commissioning
- 8. Major dewatering such as well points/underground pumping
- 9. Phase 2 kitchen equipment and freezer
- 10. office furniture
- 11. video visitations monitors

END OF SECTION 01 12 00

SECTION 08 56 53 – SECURITY WINDOWS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. [Interior] Bullet Resisting Transaction Windows

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of window
- B. Shop Drawings: Include plans, elevations, sections, details, anchorage to other work.
- C. Samples: For each exposed finish.

1.3 INFORMATION SUBMITTALS

- A. Product Test Reports: Indicating compliance with requirements
- B. Warranty: Sample of finish warranty

1.4 CLOSEOUT SUBMITTALS

- A. Cleaning Instructions

1.5 DELIVERY, STORAGE AND HANDLING

- A. Protect windows in accordance with AAMA CW-10 "Care and Handling of Architectural Aluminum from Shop to Site" until Substantial Completion.

1.6 WARRANTY

- A. Finish Warranty: Manufacturer's warranty against deterioration of factory finishes for the period of [5] years from the date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURED UNIT

- A. Basis of Design: AVT Bullet Resisting Transaction Window by Insulgard Security Products; Phone 800.624.6315; website www.insulgard.com
- B. Description

1. Factory fabricated window frame constructed from either 6105-T5 or 6005-T5 extruded aluminum for voice transition rails (jambs) and head.
2. Base: stainless steel
3. Deal Tray: Recessed stainless steel [with bullet-trap]
4. Dimensions: 48 inches high by 60 inches wide

2.2 PERFORMANCE CRITERIA

- A. Ballistic Resistant: Level [3] in accordance with UL 752 – Testing for Ballistic Resistance for the complete assembly including framing, glazing, deal tray and base.

2.3 FABRICATION

- A. Miter or cope corners the full depth of framing; assemble and dress smooth.
 1. Fabricate framing from manufacturer's standard extruded aluminum in thicknesses required for security windows to comply with indicated ballistic resistance requirement.
- B. Tolerances: All joints and connections shall be tight, providing hairline joints and true alignment of adjacent members
- C. Factory glaze security windows
 1. Glazing Stops: Finish stops to match security window framing
 - a. Secure-Side (interior) Glazing Stops: integral to framing
 - b. Non-secure side (exterior) Glazing Stops: Removable, coordinated with glazing indicated.

2.4 ALUMINUM FINISH

- A. Factory-applied finish:
 1. [Clear Anodic Finish]: Architectural Class I, clear coating AA-M10C22A41 Mechanical Finish Chemical Finish: etched, medium matte; 0.70 mils minimum complying with AAMA 611 "Voluntary Specification for Anodized Architectural Aluminum".

2.5 GLAZING

- A. Level 3: [BALULN25 Armor-Gard]

2.6 ACCESSORIES

- A. Fasteners: Manufacturer recommended security fasteners. Utilize fastener that require two types of tools to operate fasteners.
- B. Sealants: As indicated in Section 07 9200 Joint Sealants.
- C. Bituminous Paint: Cold-applied, asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30-mil thickness per coat.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Verify field dimensions of opening prior to fabrication of transaction window.
- B. Coordinate structural requirements to ensure proper attachment and support.

3.2 INSTALLATION

- A. Install transaction windows in accordance with manufacturer's recommendations and approved shop drawings.
- B. Where dissimilar metals will be in contact, protect against galvanic action by painting contact surfaces with primer or by apply sealant or tape recommended in writing by window manufacturer. When aluminum will contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- C. Provide required support and securely fasten and set windows plumb, square, and level without twist or bow.

3.3 CLEANING

- A. Clean security window surfaces after installation, avoiding damage to finishes. Remove excess glazing and sealant compound and dirt.

3.4 PROTECTION

- A. Protect transaction windows damage during construction operations. If damage occurs, remove and replace as required to provide windows in their original, undamaged condition.

END OF SECTION