



## Dunn County Public Safety Center & Courthouse Remodel

100% CD

11/5/2025

### Owner

DUNN COUNTY ND  
205 OWENS ST  
MANNING, ND 58642

### Architect

JOHNSON LAFFEN GALLOWAY ARCHITECTS LTD  
124 N 3RD ST, STE 300  
GRAND FORKS, ND

### Contractor

J.E. DUNN CONSTRUCTION COMPANY  
766 ELKS DRIVE  
DICKINSON, ND 58601



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## **PART 1 - GENERAL**

### **1.1 PROJECT INFORMATION**

- A. **NOTICE TO BIDDERS:** Contractor has issued Bid Documents for the Project described below and requests your bid proposal on the Scopes of Work identified in this Bid Package.
- B. **PROJECT:** Dunn County Public Safety Center & Courthouse Remodel (Project No. 25039000)
- C. **PROJECT LOCATION:** 205 Owens St  
Manning, ND 58642
- D. **OWNER:** DUNN COUNTY ND, 205 OWENS ST  
MANNING, ND 58642
- E. **ARCHITECT:** JOHNSON LAFFEN GALLOWAY ARCHITECTS LTD, 124 N 3RD ST, STE 300  
GRAND FORKS, ND 58203
- F. **CONTRACTOR:** J.E. Dunn Construction Company, 766 Elks Drive  
Dickinson, ND 58601
- G. **PROJECT DESCRIPTION:** Two separate projects sites in Manning, ND including construction of 30,000 SF Public Safety Center on 8 acre greenfield site and multi-phase renovation to existing departments within County Courthouse including 1,300 SF addition + interior renovation for courtroom.
- H. **BID PACKAGE:** 100% Construction Documents
- I. **DOCUMENT PACKAGE:**
  - 1. JOHNSON LAFFEN GALLOWAY ARCHITECTS LTD Project Manual dated October 21, 2025
  - 2. JOHNSON LAFFEN GALLOWAY ARCHITECTS LTD Drawings dated October 21, 2025
- J. **SCOPES OF WORK:** The following Scopes of Work dated 11/5/2025 are included in this Bid Package:
  - 1. 01.56.00 - TEMPORARY FENCE
  - 2. 01.71.00 - SURVEYING
  - 3. 03.00.00 - BUILDING AND SITE CONCRETE
  - 4. 03.40.01 - PRECAST CONCRETE
  - 5. 04.20.00 - MASONRY
  - 6. 05.10.00 - STRUCTURAL STEEL AND MISC METALS (FURNISH)
  - 7. 05.10.01 - STRUCTURAL STEEL AND MISC METALS (INSTALL)
  - 8. 06 2000 - FINISH CARPENTRY
  - 9. 07.10.00 - WATERPROOFING
  - 10. 07.20.00 - SPRAY INSULATION

11. 07.27.00 - WEATHER AND AIR BARRIER
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13. 07.50.00 - MEMBRANE ROOFING
14. 08.10.01 - DOORS, FRAMES AND HARDWARE (SUPPLY)
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16. 08.40.00 - GLASS & GLAZING
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18. 09.30.00 - TILING
19. 09.50.00 - ACOUSTICAL CEILINGS AND WALL TREATMENTS
20. 09.65.00 - RESILIENT FLOORING AND CARPET
21. 09.66.23 - Precast Terrazzo Stair Units (Supply)
22. 09.90.00 - PAINTING AND WALLCOVERING
23. 10.00.00 - SPECIALTIES, FRP (FURNISH AND INSTALL)
24. 11.67.23 - SHOOTING RANGE EQUIPMENT
25. 12.20.00 - WINDOW SHADES
26. 14.20.00 - ELEVATORS
27. 21.00.00 - FIRE PROTECTION
28. 22.23.00 - PLUMBING & HVAC
29. 26.27.28 - ELECTRICAL
30. 31.20.01 - EARTHWORK AND STRUCTURAL EXCAVATION
31. 33.00.00 - SITE UTILITIES

## **1.2 BID INFORMATION**

- A. **PRE-BID CONFERENCE:** Contractor will hold a Pre-bid Conference and site walk to answer any questions from prospective Bidders regarding the Scope(s) of Work on the Project. Attendance is strongly recommended. No other Pre-bid Conference will be held.
  1. Date: Thursday 11.6.25
  2. Time: 1:00 PM, local time.
  3. Location: Dunn County Courthouse, Manning, ND
- B. **BID FORMS:** Submit bid(s) on the appropriate Bid Proposal Form(s) furnished in Section 00 41 00.10.
  1. For Individual Scopes, submit 00 41 00.10.
  2. For combination bids, submit 00 41 00.10 (for each Scope) and 00 41 00.20 for the combination.
  3. Note: Reference those indicated Bid Forms for applicable attachments.
- C. **BID BONDS:** Bid Bonds are not required on this Project.

D. **BID DATE:** Bids will be received by the Contractor until the bid time and date at the location indicated below.

1. Date: Thursday 11.13.25
2. Time: 2:00 PM, local time.
3. Location: Dunn County Courthouse, Manning, ND
4. Note: Bids can be submitted e-mail at [matt.lange@jedunn.com](mailto:matt.lange@jedunn.com).

E. **BID DOCUMENTS:**

1. Bidding Documents may be viewed and/or obtained electronically via Autodesk Construction Cloud (ACC) Building Connected.

F. **LENGTH OF VALADITY OF BIDS:** All Bids shall be valid for acceptance by the Contractor for a period of Forty-Five (45) calendar days after submission of the Bid(s).

### **1.3 INTREPRETATION AND ADDENDA**

A. Requests for interpretations, clarifications, corrections, or changes of the Bidding Documents must be made in writing at least seven (7) calendar days before the date for receipt of Bids. No Addenda will be issued later than two (2) business days before the date for receipt of Bids except for the limited situations set forth in the Instructions to Bidders.

### **1.4 SUBSTITUTIONS**

A. Substitutions are allowed on this Project as indicated in the Instructions to Bidders and pursuant to Division 01.

### **1.5 INSURANCE REQUIREMENTS**

- A. Insurance requirements are included in the Subcontract, M&E Contract, and/or Controlled Insurance Manual included herein.
- B. Subcontractors will not be allowed on site until they have fully complied with the insurance requirements.

### **1.6 PROJECT HIGHLIGHTS**

- A. **PREVAILING WAGES:** Prevailing wages are not required on this Project.
- B. **SMALL BUSINESS DBE/MBE/WBE GOALS:** Goals are not required on this Project. Contractor requests that Bidders actively solicit participation from minority contractors, suppliers, and other organizations.
- C. **TAXES/EXEMPTIONS:** This Project is not exempt from state sales and use tax.



**SCOPE OF WORK 01.56.00 - TEMPORARY FENCE**

**SCOPE OF WORK**

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**TEMPORARY FENCE** - Including, but not limited to, Specification sections:

- Div 00            Procurement and Contracting Requirements - Courthouse Remodel**
- Div 00            Procurement and Contracting Requirements - Public Safety Center**
- Div 01            General Requirements - Courthouse Remodel**
- Div 01            General Requirements - Public Safety Center**

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Temporary construction fencing and gates per the Site Access Plan in the Front End, including separate mobilizations for removal as directed.
- 1.2. Fencing to be six (6) feet tall with a top rail.
- 1.3. All fencing to be new and galvanized.
- 1.4. Fence posts to be spaced at a maximum of ten (10) feet on center, and shall be driven into the ground.
- 1.5. Three (3), twenty (20) foot wide swing gates. Gates shall be lockable.
- 1.6. Terminal posts at gate openings and corners shall be driven in OR cored in the street and secured into the ground.
- 1.7. Fence shall be placed on the Project side of the curb (back of curb).
- 1.8. Sidewalk and/or street closure permits required to perform this Work.
- 1.9. Signs and barricades as required.
- 1.10. Locate existing utilities prior to beginning fence installation.

**The following work is excluded:**

- 1. Permanent fencing.

**Unit Prices:**

- 1. Galvanized six (6) feet tall chain link fencing: \$ \_\_\_\_\_ / linear foot (includes materials, installation, rental costs for the duration of construction, and removal offsite)
- 2. Additional twenty (20) foot swing gate: \$ \_\_\_\_\_ / each.



**SCOPE OF WORK 01.71.00 - SURVEYING**

**SCOPE OF SERVICES**

**SURVEYING -**

- Div 00 Procurement and Contracting Requirements - Courthouse Remodel**
- Div 00 Procurement and Contracting Requirements - Public Safety Center**
- Div 01 General Requirements - Courthouse Remodel**
- Div 01 General Requirements - Public Safety Center**

**The Consultant shall provide the following Services:**

**1. SURVEYING SERVICES**

- 1.1. Verify existing survey, including horizontal and vertical control points, and existing benchmarks.
- 1.2. Layout and survey work required for vertical and horizontal control points from which site and building layout can be completed.
- 1.3. Maintenance of benchmarks and control points throughout construction.
- 1.4. Locations for control points will be given at the direction of the Contractor.
- 1.5. Offset all stakes by dimension as coordinated with the Contractor.
- 1.6. Staking and layout for SWPPP and mass grading, including boundary stakes.
- 1.7. Staking and layout for existing and new sewer, water, and storm site utilities. Includes double offset stakes from manholes indicating inverts.
- 1.8. Staking and layout for building foundations, including, but not limited to, footing location, bottom of footing elevation, grade beams, and retaining walls and footings.
- 1.9. Establishment of radius points and transfer of points for the interior of the building.
- 1.10. Establish benchmark location at four (4) feet above finish floor at each level at four (4) column locations.
- 1.11. Staking for final site grading, including whiskers for finish grading of site subgrades.
- 1.12. Staking and layout of site improvements, including, but not limited to, site concrete, HVAC equipment pads, transformer pads, light pole bases.
- 1.13. Staking and layout of street, sidewalk, and curb and gutter improvements with an offset including line and grade.
- 1.14. Submit copies of logbooks.
- 1.15. Final property survey showing significant features (real property) for the Project. Include on the survey a certification, signed by the surveyor, to the effect that principal meets and bounds, lines and levels of the Project are accurately positioned as shown on the survey. Submit copies of the final property survey together with a



certified statement that the lines and levels of the work comply with the requirements of the Subcontract Documents, and listing authorized or accepted deviations.

1.16. Verification during the course of layout that design grades are compliant with ADA where required and that drainage will function as intended. Specifically verify existing conditions adjacent to new work and ensure correctness of same. Document any inconsistencies in writing via RFI.

1.17. Layout of two (2) grid(s) in each direction at each floor level and roof level.

**The following Services are excluded:**

1. Survey or layout not specifically included.

**Unit Prices**

1. Survey crew cost: \$ \_\_\_\_\_ per hour.

## **SCOPE OF WORK 03.00.00 - BUILDING AND SITE CONCRETE**

### **SCOPE OF WORK**

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**BUILDING AND SITE CONCRETE** - Including, but not limited to, Specification Section(s):

<b>03 2000</b>	<b>Concrete Reinforcing - Courthouse Remodel</b>
<b>03 2000</b>	<b>Concrete Reinforcing - Public Safety Center</b>
<b>03 3000</b>	<b>Cast-in-place Concrete - Courthouse Remodel</b>
<b>03 3000</b>	<b>Cast-in-place Concrete - Public Safety Center</b>
<b>03 3511</b>	<b>Concrete Floor Finishes - Public Safety Center</b>
<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>32 1313</b>	<b>Concrete Paving - Courthouse Remodel</b>
<b>32 1313</b>	<b>Concrete Paving - Public Safety Center</b>
<b>32 1723</b>	<b>Pavement Marking - Courthouse Remodel</b>
<b>32 1723</b>	<b>Pavement Marking - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. **GENERAL**

- 1.1. Protect adjacent finishes prior to placing concrete. Remove protection after placement of concrete and clean adjacent finishes of splatter or slurry.
- 1.2. Clean roads surrounding Project site from debris resulting from this Work, as directed by Contractor.
- 1.3. Protect rebar immediately after placement.
- 1.4. Hoisting and lifting required to complete the Work.
- 1.5. Layout and survey work as required for the Work from benchmarks and control points by others. Protect and maintain benchmarks and control points while working onsite.
- 1.6. Remove concrete spoils and washouts weekly.
- 1.7. Cover holes in concrete decks and/or slabs created while performing the Work of this Scope. Maintain until directed otherwise by Contractor.
- 1.8. Temporary fall protection and safety railings on horizontal formwork at perimeter of structure and interior openings. After formwork is removed, provide, maintain, and

remove temporary railings at perimeter of structure and interior openings. Safety railings to be compliant with OSHA requirements and include toe boards and debris netting.

- 1.9. Temporary ladders and stairs for vertical access throughout structure until permanent stairs are in place.
- 1.10. Secure material daily to ensure material does not blow off structure or around Project site.
- 1.11. Traffic control including lane closures, lane closure permits, flagmen, barricades, signage, and locating pump in public right of way.
- 1.12. Field cure box for Owner's Testing Agent for curing of concrete cylinders. Assist testing agency in moving cylinders.
- 1.13. Reveals, drips, form liners, rustification, chamfered corners, and architectural elements and details.
- 1.14. Layout markings that will not permanently mark concrete finishes.
- 1.15. Ensure rebar, embeds, anchor bolts, inserts, and sleeves are not displaced during concrete pours.
- 1.16. Concrete pumping and placement as required.
- 1.17. Install anchors, bolts, blockouts, sleeves, weeps, plates, and other items embedded in concrete. Embedded items furnished by others. Coordinate location of embedded items with others. After placement of concrete, provide detailed drawing confirming the accuracy of installation for elevation and location within twenty-four (24) hours.
- 1.18. Curing materials.
- 1.19. Hot weather concrete placement requirements of the Specifications and ACI guidelines.
- 1.20. Temporary generators for this Work as required until temporary power is available.
- 1.21. Winter conditions concrete placement requirements of the Specifications and American Concrete Institute (ACI) guidelines.
- 1.22. Hot water, heated aggregates, and accelerators for concrete as required for weather conditions.
- 1.23. Ground heater rental, if any. This Work shall be based on Unit Pricing #1 below, and the amount added via change order.
- 1.24. Concrete blanket rental, if any. This Work shall be based on Unit Pricing #2 below, and the amount added via change order.
- 1.25. Labor for winter-related activities including, but not limited to, placing, removal, and storage of ground heaters, concrete blankets, building of shelters, and snow & ice removal, if any. This Work shall be based on Unit Pricing #3 below, and the amount added via change order.

## 2. BUILDING CONCRETE

- 2.1. Horizontal and vertical building concrete Work including, but not limited to, footings, piers, walls, slabs on grade, slabs on precast deck (topping slab), slabs on metal deck, stoops, and concrete fill at stair pans and landings. Includes all concrete materials, formwork, placement and finish, expansion joints, joint sealants, bond breakers, control joints, keyways, waterstops, and miscellaneous accessories required to complete the Work.
- 2.2. Shop Drawings showing suggested saw cut, tool locations, construction joints, and bulkheads for walls and slab-on-grade.
- 2.3. Submit detailed concrete pour schedule.
- 2.4. Concrete infill at steel column isolation locations.
- 2.5. Non-shrink grout at steel base plates.
- 2.6. Fine grading and hand excavation at thickened slabs.
- 2.7. Wet cure concrete slabs to receive adhesive applied flooring. Follow Specification guidelines for all remaining slabs.
- 2.8. Utilize Moisture Mitigating Admixture in concrete slabs to receive finished flooring.
- 2.9. Protect concrete slabs that will be a finished surface. Coordinate proper floor protection with manufacturer's representatives and others installing special flooring systems.
- 2.10. Extra concrete caused by over excavation or due to deck deflection.
- 2.11. Pipe bollard installation including layout, block-out for installation, and concrete infill in bollard.
- 2.12. Shoring and reshoring as necessary for slab on metal deck.
- 2.13. Wall bracing of all Public Safety Center basement foundation walls as required to facilitate backfill operations. Include any engineering required. Patch tie holes and bracing holes.
- 2.14. Bulkheads as necessary to facilitate Project Schedule.
- 2.15. Rebar splices or form savers either called for or needed for constructability purposes.
- 2.16. Void forms as required. Temporary protection of void forms from weather.
- 2.17. Coordinate subdrainage installation (by others) during foundations with installing trade.
- 2.18. Grout elevator sills.
- 2.19. Concrete Sealer CSLR-1.
- 2.20. Stained Polished Concrete SPCONC-1.

## 3. SITE CONCRETE

- 3.1. Site concrete Work including concrete materials, formwork, placement and finish, conveyance of concrete, reinforcing steel, control joints, expansion joints, joint sealants, dowels, and miscellaneous accessories required to complete the Work.
  - 3.2. Concrete sidewalks, stairs, ramps, concrete pavement, and driveway entrances.
  - 3.3. Concrete curb and gutter.
  - 3.4. Detectable warning pavers.
  - 3.5. Concrete bases for bollards, traffic signs, and light poles.
  - 3.6. Install and fill steel bollards furnished by others.
  - 3.7. Exterior electrical equipment pad.
  - 3.8. Touch-up of final grading (within +/- .10' ) directly prior to concrete placement.
4. PAVEMENT MARKINGS & SITE SIGNAGE
- 4.1. Striping including but not limited to, parking spaces, handicap spaces, hatched areas, turn arrows, crosswalks, and curb painting.
  - 4.2. Curb painting required to delineate fire lanes, loading zones, or no parking areas.
  - 4.3. Clean surfaces, including pressure washing, prior to striping activities.
  - 4.4. Traffic and handicap signage and posts including concrete bases where required.
  - 4.5. Barricade marked areas during installation and until the marking paint is dried and ready for traffic.

**The following work is excluded:**

1. Furnishing embeds.
2. Permanent handrails.
3. Joint sealants defined in other scopes of work.
4. Granular base below building and site concrete.
5. Structural excavation.
6. Soil treatment.
7. Building (interior) mechanical, electrical, and plumbing equipment pads.
8. Foundation waterproofing and draitile.
9. Insulation at foundation walls and footings.
10. Asphalt paving.
11. Temporary infill for pan stairs.
12. Ductbank concrete.



13. Mock-ups.

**Unit Pricing**

- 1. Ground Heater Rental: \$ \_\_\_\_\_ / each / week.
- 2. Blanket Rental: \$ \_\_\_\_\_ / each / day.
- 3. Labor for Winter-Related Activities: \$ \_\_\_\_\_ / man-hour.

**Voluntary Alternate Pricing**

- 1. Omit SPCONC-1 from base bid: \$ \_\_\_\_\_.
- 2. Omit (engineered) bracing at all Public Safety Center basement foundation walls from base bid: \$ \_\_\_\_\_.
- 3. Add elevator pit waterproofing and elevator pit insulation to base bid: \$ \_\_\_\_\_.
- 4. Add perimeter foundation waterproofing and foundation insulation to base bid: \$ \_\_\_\_\_.

## SCOPE OF WORK 03.40.01 - PRECAST CONCRETE

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**PRECAST CONCRETE** - Including, but not limited to, Specification sections:

<b>03 4100</b>	<b>Precast Structural Concrete - Public Safety Center</b>
<b>03 4113</b>	<b>Precast Concrete Hollow Core Planks - Public Safety Center</b>
<b>03 4500</b>	<b>Precast Architectural Concrete - Public Safety Center</b>
<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Deliver precast to jobsite in accordance with the sequence defined by Contractor. Coordinate delivery access, storage lots (if any), shuttle drivers (if any), and trailer drop locations (if any) with Contractor.
- 1.2. Coordinate and obtain lane closure fees required to complete the Work.
- 1.3. Mock-ups as indicated. Preliminary drawing to be approved by the Contractor. Provide precast panel mock-up within two (2) weeks after notice to proceed.
- 1.4. Submit a minimum of the following to the Contractor:
  - 1.4.1. General erection sequence within two (2) weeks after execution of this Agreement, or as otherwise required by Contractor. Include locations of temporary crane roads and pads.
  - 1.4.2. Shop Drawings for mock-up.
  - 1.4.3. Shop Drawings and piece tickets to meet the Project schedule. All precast submittals shall be signed by an engineer licensed in the state where the Project is located.
  - 1.4.4. Precast material picking points and cast-in embeds must be manufactured to meet all requirements in accordance with 20 CFR 1926.704 OSHA standards. Submit the following as they relate to these standards: Statement of Conformance from the product manufacturer to these standards; evidence of the manufacturer or distributor performance testing; and evidence of traceability from the testing procedure to the manufacturer and/or batch of the product.

- 1.4.5. Anchorage devices, templates, and layout drawings for items to be embedded into other construction materials for precast connections. Embeds should be labeled in a way that is easily visible and that will not wear off to allow the installation by others. Drawings and embeds must be received in a timely manner to meet the Project schedule.
  - 1.4.6. Coordinate embedded items in precast. Submit coordination drawings, prior to final Shop Drawing approval, and coordinate with others affected by the precast.
  - 1.4.7. Engineering and drawings for embed, panel, or connection modifications needed onsite during erection.
  - 1.4.8. Detailed erection sequence by piece mark two (2) weeks prior to the precast pre-installation meeting as part of the site-specific precast erection plan.
  - 1.4.9. Site-specific precast erection plan two (2) weeks prior to the precast pre-installation meeting. Plan shall include all items outlined in the Precast Erection Standards located in the Safety and Health Manual.
  - 1.4.10. An engineered bracing plan included as part of the site-specific precast erection plan. Requirements for removal of the shores, braces, and/or deadmen shall also be included in the engineered bracing plan.
  - 1.5. Participate in the precast pre-installation meeting, mobilization and start-up meeting, and daily lift plan meeting per the Precast Erection Standards located in the Safety and Health Manual.
  - 1.6. Protect adjacent surfaces prior to precast erection. Remove protection after erection of precast and clean adjacent surfaces of slurry or mortar.
  - 1.7. Hoisting, lifting and other equipment required to complete the Work including, but not limited to, cranes, hoists, and scaffolding. Reference Front End for any personnel and material hoisting provided by Contractor, if any. Identify crane road or pad needs for inclusion in the site logistics plan.
  - 1.8. Layout as required to complete the Work.
  - 1.9. Traffic control, barricades, and flagmen for the movement of materials and equipment on-site as required for this Work. Reference Front End Document for any traffic control provided by others.
  - 1.10. Temporary fall protection measures (including maintenance and removal) as required to meet the requirements of Contractor and OSHA regulations.
  - 1.11. Temporary generators for this Work as required until temporary power is available.
2. PRECAST
- 2.1. Install lower-level steel columns, steel beams, and misc. metals required for bearing of first floor precast members.
  - 2.2. Precast concrete members, precast components, and connections including, but not limited to, shims, supports, anchors, kickers, tubes, and coil rods from the structure,



which are required to support the precast.

- 2.3. Temporary and permanent anchorage including, but not limited to, embedded weld plates, shim plates, grout, dowels, and bolting pursuant to the Subcontract Documents and precast erection design documents.
- 2.4. Temporary shoring, bracing, and deadmen of precast and removal of the same during construction.
- 2.5. Grouting of hollowcore precast plank.
- 2.6. Drilling of weep holes in bottom hollow core precast, as directed by the Contractor.
- 2.7. Touch up field welds. Repair scratches or damaged galvanized surfaces.
- 2.8. Patch precast surfaces as required. This includes but is not limited to the following: exposed to view lifting inserts, recessed plate connections, recessed v-connectors, column connections, and damage to precast. Patching to be completed within thirty (30) calendar days of erection completion.
- 2.9. Clean/remove excess slurry, mortar, or grout from fabrication process from precast concrete members before shipment to jobsite.
- 2.10. Clean/remove excess slurry, mortar, grout, etc. from installation process from precast concrete members before demobilization from jobsite.
- 2.11. Clean exposed precast concrete members (exterior and interior) after precast and sealant is installed. Protect adjacent finishes from chemical wash, over-spray, and run-off.
- 2.12. All embedded items in precast. Place items and block-outs in precast as required by others. Includes wood 2x4s embedded in precast panels, spanning across elevator door openings and stairwell door openings, to serve as built-in fall protection for precast erector and subsequent trades.
- 2.13. Precast/Prestressed Concrete Institute (PCI) Certification.
- 2.14. Caulking and sealing of precast concrete members.

**The following work is excluded:**

- 1. Temporary roads and crane pads.
- 2. Steel erection other than lower-level steel as needed to set first floor precast.

**Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.**

- 1. Provide lead time for shops of embeds after Notice to Proceed: \_\_\_\_\_  
Weeks
- 2. Provide lead time for shops for precast pieces after Notice to Proceed:  
\_\_\_\_\_ Weeks
- 3. Provide lead time for delivery of embeds after approved Embed Shops:



\_\_\_\_\_ Weeks

4. Provide lead time for delivery of precast pieces after approved Precast Shops:

\_\_\_\_\_ Weeks

5. Provide total quantity of precast pieces included in Bid Documents:

\_\_\_\_\_ Pieces

6. Provide pieces per day delivered assumed in Base Bid: \_\_\_\_\_ Pieces per day

7. Provide pieces per day installed assumed in Base Bid: \_\_\_\_\_ Pieces per day

**Voluntary Alternate Pricing**

1. Omit lower-level structural steel installation (for first floor precast) from base bid:

\$ \_\_\_\_\_.

## SCOPE OF WORK 04.20.00 - MASONRY

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**MASONRY** - Including, but not limited to, Specification Section(s):

<b>04 2000</b>	<b>Unit Masonry - Courthouse Remodel</b>
<b>04 2000</b>	<b>Unit Masonry - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Platforms, scaffolding, lifts, and small tools as required to complete the Work.
- 1.2. Hoisting and lifting required to complete the Work.
- 1.3. Traffic control, barricades, and flagmen both on-site and off-site for the movement of materials and equipment included in this Work.
- 1.4. Submit a detailed scaffolding plan showing the scaffold type anticipated and tie back details. Scaffold plan shall be sealed by an engineer licensed in the state where the Project is located, when required by OSHA regulations. If the scaffold must bear on existing structure, provide reshoring or engineering indicating loads are acceptable. All tie-backs that penetrate the masonry skin either permanently or temporarily shall be stainless steel grade 304. Overhead protection as required for Subcontractor's workforce.
- 1.5. Coordinate unloading, delivery, lay-down area, and masonry batch area with Contractor. Relocation may be required for coordination with the overall construction as directed by Contractor.
- 1.6. Mixing area including a gravel pad under the mixer area. Provide an earth berm around the mixing area in accordance with storm water runoff requirements. Line basin under the mixing area with impervious liner to prevent groundwater contamination in accordance with EPA requirements.
- 1.7. Layout as required from established benchmarks by others.
- 1.8. Clean roads surrounding Project site from debris resulting from this Work.
- 1.9. Clean masonry per the Subcontract Documents and manufacturer's recommendations.
- 1.10. Temporary protection at top of completed masonry walls, masonry cavities and/or stone cavities. Keep in place and remove when directed by Contractor.

1.11. Floor protection. Remove and clean mortar and mortar stains from exposed surfaces.

1.12. Temporary generators for this Work as required until temporary power is available.

## 2. MASONRY

2.1. CMU, reinforcing steel, brick, mortar, and grout.

2.2. Masonry accessories, clips, shims, fasteners, anchors, flashing, welding, and other items as required.

2.3. Temporary bracing of masonry walls (over eight feet (8') tall) designed by an engineer licensed in the state where the Project is located. The bracing plan should be designed incorporating Project-specific conditions for walls in progress and until final structural connections are made.

2.4. Install anchors, bolts, blockouts, sleeves, plates, and other items embedded in masonry. Embedded items furnished by others. Coordinate location of embedded items with others.

2.5. Reinforcing steel within masonry walls. Drill and epoxy dowels into substrate where indicated.

2.6. Install and grout hollow metal frames within masonry and concrete assemblies. Frames furnished by others.

2.7. Patching, grouting and laying of masonry around wall penetrations.

2.8. Control and expansion joints within masonry assemblies. Strike clean caulk joints and expansion joints.

2.9. Install access doors within masonry walls. Doors furnished by others.

2.10. Install counter-flashing folds, reglets, and receivers. Material furnished by others.

2.11. Install loose steel lintels. Lintels furnished by others.

### **The following work is excluded:**

1. Waterproofing and air/weather barriers.

2. Caulking.

3. Firesafing and firestopping.

4. Expansion joint covers.

5. Fixed relief angles.

6. Furnishing of access doors, loose lintels, and door frames.

7. Surface applied masonry sealers.

8. Top of wall seismic bracing.

## **SCOPE OF WORK 05.10.00 - STRUCTURAL STEEL AND MISC METALS (FURNISH)**

### **SCOPE OF WORK**

The Supplier shall furnish the following material and equipment:

**STRUCTURAL STEEL AND MISC METALS (FURNISH)** - Including, but not limited to, material and equipment required by Specification Section(s):

<b>05 1200</b>	<b>Structural Steel Framing - Courthouse Remodel</b>
<b>05 1200</b>	<b>Structural Steel Framing - Public Safety Center</b>
<b>05 2100</b>	<b>Steel Joist Framing - Courthouse Remodel</b>
<b>05 2100</b>	<b>Steel Joist Framing - Public Safety Center</b>
<b>05 3100</b>	<b>Steel Decking - Courthouse Remodel</b>
<b>05 3100</b>	<b>Steel Decking - Public Safety Center</b>
<b>05 5000</b>	<b>Metal Fabrications - Public Safety Center</b>
<b>05 5100</b>	<b>Metal Stairs - Courthouse Remodel</b>
<b>05 5100</b>	<b>Metal Stairs - Public Safety Center</b>
<b>05 5133</b>	<b>Metal Ladders - Public Safety Center</b>
<b>05 5213</b>	<b>Pipe And Tube Railings - Courthouse Remodel</b>
<b>05 5213</b>	<b>Pipe And Tube Railings - Public Safety Center</b>
<b>05 7000</b>	<b>Decorative Metal - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### **1. GENERAL**

- 1.1. Delegated design with calculations for connections not shown, joists, and decking, including seal of professional engineer licensed in the state where the Project is located, on Shop Drawings and calculations.
- 1.2. Coordinate requirements of the Work including, but not limited to, reviewing of all Subcontract Documents for size and locations of openings in floor and roof framing, including support framing at openings as required by typical details.
- 1.3. Fasteners (bolts, nuts, washers, tension control fasteners, anchors, and epoxy adhesives) necessary to complete this Scope of Work.
- 1.4. Coatings and surface preparation per the Specifications, including Division 9 Specifications as applicable to this Scope of Work where referenced by the Division 5 Specifications. Where steel fabrications are scheduled for shop primer to receive field coatings, provide shop primer that is compatible with specified field-applied finish systems.

- 1.5. Embed plates, anchor bolts, and all other steel items scheduled for embedment in cast-in-place concrete, masonry, and other non-steel substrates. Where embeds are required for support or connection of structural steel and misc. metals, provide embed layout drawings as necessary for proper installation by others.
  - 1.6. Coordinate embed locations with precast supplier for support or connection of structural steel and misc. metals. Embeds in precast concrete by others.
  - 1.7. Coordinate field measurements with erection subcontractor. Update final Shop Drawings to accommodate field measurements.
  - 1.8. Shop visual and non-destructive testing in accordance with American Welding Society (AWS) and American Institute of Steel Construction (AISC) procedures.
  - 1.9. Participate in BIM Modeling Coordination Program.
2. STRUCTURAL STEEL
- 2.1. Structural steel items including, but not limited to, beams, columns, metal deck, joists, joist reinforcing, bracing, bridging, pour stops, deck angles, bent plates, embed plates, and connection material for all of the previously mentioned items.
  - 2.2. One template of each base plate type to Contractor for use in setting anchor bolts.
  - 2.3. Pour stops and closure plates as required at slab on deck locations to create fully sealed and edge formed assembly for others.
  - 2.4. Canopy support framing and decking.
  - 2.5. Expedited Shop Drawings, fabrication, and delivery of lower-level columns, beams, and misc. steel required for first floor precast bearing.
3. MISCELLANEOUS METALS
- 3.1. Miscellaneous steel items including, but not limited to, elevator hoist beam, elevator pit ladder, elevator sill angles, primed steel channel sections for overhead door openings, mechanical unit support steel, angle framing at roof and floor openings, ship ladder, primed steel canopy assembly, and primed steel continuous plate assembly at lobby storefronts.
  - 3.2. Primed and stainless steel stair items including, but not limited to, stairs, rails, standard stringers, channel stringers, steel pan treads, landing frames & decking, support tubes & angles, posts, barstock, steel guardrail & handrail, and pipe & tube railings. Includes weld clips at stringers for prefabricated terrazzo stair treads.
  - 3.3. Slip resistant finish on stair nosings, treads and ladder rungs.
  - 3.4. Skylight support framing.
  - 3.5. Steel bollards.
  - 3.6. Trench drain grating and associated support angles.
  - 3.7. Bent plate steel at parapets.
  - 3.8. Steel plate and channel assemblies at lobby storefronts.



**The following work is excluded:**

1. Installation.
2. Metal Ceiling MET-2.
3. Metal Panel MET FAB-10.
4. Weathering Steel Wall Panel WTHR STL-1.
5. Weathering Steel Soffit Panel WTHR STL-2.
6. Interior Weathering Steel Panel WTHR STL-4.
7. Weathering Steel Plate WTHR STL-5 and WTRH STL-6.
8. Prefabricated terrazzo stair treads.
9. Steel support/hangers for mechanical equipment, piping, and duct work, unless specifically denoted on the steel Structural Drawings.
10. Anchor bolts and fasteners for wood sills and nailers.
11. Masonry ties for welded connection to steel columns and beams.
12. HDPE covers for bollards.

**Unit Prices: The following unit prices are requested at bid time and are more or less than the quantities included in this Scope of Work.**

1. Shop Labor: \$ \_\_\_\_\_/HR
2. Additional Fabricated Structural Steel - Delivered on site: \$ \_\_\_\_\_/Ton
3. Additional Fabricated Steel Decking - Delivered on site: \$ \_\_\_\_\_/Ton

**Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.**

1. Structural Steel: \_\_\_\_\_ Tons
2. Steel Joists: \_\_\_\_\_ Tons
3. Floor Decking: \_\_\_\_\_ SF
4. Roof Decking: \_\_\_\_\_ SF
5. Timing from notice to proceed to submission of complete Structural Steel shop drawings: \_\_\_\_\_ Weeks
6. Timing from notice to proceed to submission of complete Miscellaneous Metals shop drawings: \_\_\_\_\_ Weeks
7. Timing to fabricate and deliver the steel to Project site after receipt of approved or approved as noted submittals, verification forms, and a signed Contract. Duration provided shall be based upon the number of weeks necessary to deliver an adequate quantity of steel to the site to allow erection to commence and continue as indicated per the Project



schedule without interruption or delay due to shortages of material on Project site:  
\_\_\_\_\_ Weeks

## **SCOPE OF WORK 05.10.01 - STRUCTURAL STEEL AND MISC METALS (INSTALL)**

### **SCOPE OF WORK**

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**STRUCTURAL STEEL AND MISC METALS (INSTALL)** - Including, but not limited to, Specification Section(s):

<b>05 1200</b>	<b>Structural Steel Framing - Courthouse Remodel</b>
<b>05 1200</b>	<b>Structural Steel Framing - Public Safety Center</b>
<b>05 2100</b>	<b>Steel Joist Framing - Courthouse Remodel</b>
<b>05 2100</b>	<b>Steel Joist Framing - Public Safety Center</b>
<b>05 3100</b>	<b>Steel Decking - Courthouse Remodel</b>
<b>05 3100</b>	<b>Steel Decking - Public Safety Center</b>
<b>05 5000</b>	<b>Metal Fabrications - Public Safety Center</b>
<b>05 5100</b>	<b>Metal Stairs - Courthouse Remodel</b>
<b>05 5100</b>	<b>Metal Stairs - Public Safety Center</b>
<b>05 5133</b>	<b>Metal Ladders - Public Safety Center</b>
<b>05 5213</b>	<b>Pipe And Tube Railings - Courthouse Remodel</b>
<b>05 5213</b>	<b>Pipe And Tube Railings - Public Safety Center</b>
<b>05 7000</b>	<b>Decorative Metal - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. **GENERAL**

- 1.1. Install structural steel items including, but not limited to, beams, columns, metal deck, joists, joist reinforcing, bracing, bridging, pour stops, deck angles, bent plates, embed plates, and connection material for all of the previously mentioned items.
- 1.2. Submit site-specific erection plan two (2) weeks prior to the steel erection pre-installation meeting. Plan shall include all items outlined in the Steel Erection Standards located in the Safety and Health Manual.
- 1.3. Participate in the steel erection pre-installation meeting, steel erection pre-start meeting and daily routine meeting per the Steel Erection Standards located in the Safety and Health Manual.
- 1.4. Field measure and verify existing conditions as necessary to finalize miscellaneous metal shop drawings prior to material fabrication by steel supplier.

- 1.5. Install miscellaneous steel items including, but not limited to, elevator hoist beam, elevator pit ladder, elevator sill angles, primed steel channel sections for overhead door openings, mechanical unit support steel, angle framing at roof and floor openings, ship ladder, primed steel canopy assembly, and primed steel continuous plate assembly at lobby storefronts.
- 1.6. Install primed & stainless steel stair items including, but not limited to, stairs, rails, standard stringers, channel stringers, steel pan treads, landing frames & decking, support tubes & angles, posts, barstock, steel guardrail & handrail, and pipe & tube railings. Includes installation of prefabricated terrazzo stair treads as per welding pattern specified by tread manufacturer.
- 1.7. Stainless steel metal fabrications shall be cleaned and/or polished at completion of field erection in order to leave finished product clean and free of any oil, grease, and welding burns that may be present from the manufacturing or erection process.
- 1.8. Install skylight support framing.
- 1.9. Install trench drain grating and associated support angles.
- 1.10. Install steel plate and channel assemblies at lobby storefronts.
- 1.11. Install pour stops and closure plates as required at slab on deck locations to create a fully sealed and edge formed assembly for others.
- 1.12. Coordinate requirements of the Work including, but not limited to, reviewing of Subcontract Documents for size and locations of openings in floor and roof framing, including support framing at openings as required by typical details.
- 1.13. Install connections to concrete, masonry, or other non-steel substrates where installation of steel must occur after substrate is already in place.
- 1.14. Field measurements and surveying of embedded steel items (projection, concrete elevation, location, alignment, and damage), including multiple trips to Project as necessary to accomplish these tasks. Submit findings two (2) weeks prior to mobilizing for start of steel erection. Notify Contractor of any discrepancies identified among field measurements, the Subcontract Documents, and American Institute of Steel Construction (AISC) standards.
- 1.15. Cut holes in deck assemblies for openings identified on Subcontract Documents, when directed by Contractor.
- 1.16. Field touch up of shop finish primer, paint, and galvanizing at locations where shop finish is damaged during delivery, handling, or erection, including, but not limited to, field connection points, bolts, handrails, and hoisting pick points.
- 1.17. Clean steel of dirt, mud, dust, and piece mark identifications prior to completion of erection.
- 1.18. Remove temporary erection aids, welds, run off tabs, and backing strips.
- 1.19. Lifts and any other accommodations necessary to facilitate performance of special inspections of the Work as required by the testing agency.

- 1.20. Arrange for temporary power for welders and equipment as needed for completion of this Scope of Work and/or provide fuel powered welders and equipment. When fuel powered equipment is used, protect concrete slabs and finishes from fuel spills or leakage and properly ventilate when performing Work within confined spaces as required per OSHA guidelines.
- 1.21. Fire extinguishers, fire watch, and burn permits for welding and cutting.
- 1.22. Ladders for floor-to-floor access during construction of this Scope of Work.
- 1.23. Temporary wire rope guardrail protection at Level 2 openings in precast (windows, stairwells, and elevator shaft), Level 2 openings in floor decking, at roof perimeter, and at openings in roof decking in accordance with OSHA and Contractor's Safety and Health Manual, including temporary posts between columns. Temporary guardrail cable shall be placed on the interior side of exterior columns to allow erection of exterior skin prior to removal of temporary safety cables. Provide a ten (10) foot wide loading area on each floor with hook and turnbuckle for adjustment. Maintain guardrails while Subcontractor's Work is being performed on each respective level of the building. Coordinate temporary guardrail system with floor slab and roof system thickness to ensure that guardrail system complies with OSHA requirements both before and after installation of slab and roof systems. Temporary guardrail system shall be left in place at completion of this Work for use by Contractor and others. Dismantle temporary guard rail as instructed by Contractor.
- 1.24. Column layout and elevations, including leveling nuts and shooting shim packs. Building offset work lines and benchmarks for use by others.

**The following work is excluded:**

1. Furnish of structural steel and miscellaneous metals.
2. Metal Ceiling MET-2.
3. Metal Panel MET FAB-10.
4. Weathering Steel Wall Panel WTHR STL-1.
5. Weathering Steel Soffit Panel WTHR STL-2.
6. Interior Weathering Steel Panel WTHR STL-4.
7. Weathering Steel Plate WTHR STL-5 and WTRH STL-6.
8. Installation of lower-level columns, beams, and misc. steel required for first floor precast bearing.
9. Grout for column base plates, beam pockets and beam bearing plates.
10. Concrete fill for pan stairs and landings.
11. Steel support and hangers for mechanical equipment, piping, and duct work, unless specifically denoted on the Structural Drawings.
12. Anchor bolts and fasteners for wood sills and nailers.



13. Masonry ties for welded connection to steel columns and beams.

14. Installation of bollards.

15. Installation of loose bent plate steel within parapet metal framing.

**Unit Prices:**

1. Hoist and Operator: for \_\_\_\_\_ hoisting requirements: Standard Time: \$\_\_\_\_\_ per hour

2. Hoist and Operator: for \_\_\_\_\_ hoisting requirements: Overtime/off hours: \$\_\_\_\_\_ per hour

3. Ironworker: Straight Time: \$\_\_\_\_\_ per hour

4. Ironworker: Overtime: \$\_\_\_\_\_ per hour

5. Crane Demobilization/Remobilization due to compensable delays beyond Subcontractor's control: \$\_\_\_\_\_ per each mobilization

**Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.**

1. Structural Steel: \_\_\_\_\_ Tons

2. Steel Joists: \_\_\_\_\_ Tons

3. Floor Decking: \_\_\_\_\_ SF

4. Roof Decking: \_\_\_\_\_ SF

5. Steel Stair & Rails: \_\_\_\_\_ Risers

6. Number of weeks necessary to complete erection of the steel frame structure and decking from the time of receipt of steel fabrications at the Project site, and as necessary to allow all subsequent work as defined by the Project Schedule to commence: \_\_\_\_\_ Weeks

**Contractor Requested Alternates**

1. Provide early mobilization to erect lower-level columns, beams, and misc. steel required for first floor precast bearing: \$\_\_\_\_\_.

## SCOPE OF WORK 06 2000 - FINISH CARPENTRY

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**FINISH CARPENTRY** - Including, but not limited to, Specification Section(s):

<b>06 2000</b>	<b>Finish Carpentry - Courthouse Remodel</b>
<b>06 4100</b>	<b>Architectural Wood Casework - Courthouse Remodel</b>
<b>06 4100</b>	<b>Architectural Wood Casework - Public Safety Center</b>
<b>06 4200</b>	<b>Wood Paneling - Courthouse Remodel</b>
<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>12 3600</b>	<b>Countertops - Courthouse Remodel</b>
<b>12 3600</b>	<b>Countertops - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Miscellaneous clips, shims, fasteners, anchors, accessories, expansion anchors, and adhesives as required to complete Scope of Work.
- 1.2. Shop Drawings within four (4) weeks of receipt of executed Agreement.
- 1.3. Receive, unload, and distribute materials. Include inventory, quantity verification, and damage inspection.
- 1.4. Multiple deliveries, as necessary, per Schedule.
- 1.5. Field measure prior to fabrication and adjust Shop Drawings accordingly.
- 1.6. Develop a coordinated piece mark system for materials to ensure accurate and coordinated installation. Review with Contractor.
- 1.7. Layout as required for the Work of this Scope.
- 1.8. Joint sealants for the Work of this Scope, including sealants to dissimilar materials.
- 1.9. Shop drawings for Work of this Scope. Include in-wall blocking showing exact locations, elevations, sections, details, and attachments of blocking requirements. Coordinate cut-out sizes for fixtures provided by others.
- 1.10. Layout, field verification, measurements, and templates.

- 1.11. Protection of Work, including shelves and countertops, with cardboard taped securely during the installation process. Remove when directed by Contractor.
- 1.12. Coordinate drawings and all of manufacturer's cut sheets and Shop Drawings for mechanical, plumbing, electrical, and connections for large equipment.

## 2. MILLWORK AND FINISH CARPENTRY

- 2.1. Interior finish carpentry including, but not limited to, standing and running trim, wood base, wood paneling, other wood trim, and miscellaneous materials required for a complete installation.
- 2.2. WDP-1 and WDT-1 paneling, trim, and cap at Courtroom including, but not limited to, wall panels, jury stand, divider wall, judge desk, clerk desk, witness desk, and recorder desk.
- 2.3. WDP-1 paneling and trim at judge stand book shelf as indicated per detail 3D/A622.
- 2.4. Finish touchup and fillers to complete this Scope of Work.
- 2.5. Shop finish wood items before delivering to Project site.
- 2.6. Protection of this Work and the work of others, including shelves and countertops, with cardboard taped securely during the installation process. Remove when directed by Contractor.
- 2.7. Cut outs in WDP-1 paneling to accommodate electrical devices.
- 2.8. Attachment of WDP-1 to bullet resistant panels. Ballistic panels by others.
- 2.9. Wood wall paneling including, but not limited to, above millwork at cubbies and gun lockers as indicated per detail 6C/A611 and behind copy station as indicated per detail 6A/A611.

## 3. CASEWORK

- 3.1. Casework including, but not limited to, cabinets, vanities, countertops and supports, window sills, shelves and brackets, mail boxes, sloped tops, and miscellaneous hardware, trim, shimming, and anchorage devices for a complete installation.
- 3.2. Casework modifications at NDSU Extension. Coordinate new casework with existing.
- 3.3. Miscellaneous metals and steel integral to casework and millwork items including, but not limited to, MET FAB-11.
- 3.4. Finish hardware associated with this Scope of Work.
- 3.5. Pre-drilled holes for hardware.
- 3.6. Cutouts in casework, countertops, and any other items included in this Scope of Work. Grommets in countertops as located in the field.
- 3.7. Finish touchup and fillers to complete this Scope of Work.
- 3.8. Joint sealants for the Work of this Scope, including sealants to dissimilar materials.

- 3.9. Align and adjust casework doors, drawers, hardware, and shelves including locking mechanisms prior to turnover to Owner. Provide Contractor with a keyed lock schedule and all keys associated with each piece of millwork specified to receive locks.
- 3.10. Shop finish wood items before delivering to Project site.
- 3.11. Overhead service carriers and supports.
- 3.12. Twenty-inch (20") deep bench including SSM-1 top as indicated per detail 6C/A611.

#### 4. COUNTERTOPS

- 4.1. Countertops, vanities, shelves, window sills, benches, and vertical cladding including skirts, side and backsplashes, supports, edge detailing, backing material or subtops, sealers, adhesives, and miscellaneous hardware, trim, shimming, and anchorage devices for a complete installation. Exposed edges shall be polished, unless provided otherwise in the Subcontract Documents.
- 4.2. Countertops at courtroom including, but not limited to, judge, witness, and recorder counters as shown per sheet A622.
- 4.3. Countertops at reception windows as indicated per detail 7C/A302 at Courthouse and 5C/A620 at Public Safety Center.
- 4.4. Furnish countertop support brackets, installation by others.

#### **The following work is excluded:**

1. Joint sealants in other scopes of work.
2. Wood ceilings.
3. Wood doors and frames.
4. Wood windows.
5. Toilet compartments and accessories.
6. In-wall blocking/sheathing.
7. Final mechanical, electrical, and plumbing connections.
8. Rubber base.

## SCOPE OF WORK 07.10.00 - WATERPROOFING

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**WATERPROOFING** - Including, but not limited to, Specification Section(s):

<b>07 1300</b>	<b>Sheet Waterproofing - Courthouse Remodel</b>
<b>07 1300</b>	<b>Sheet Waterproofing - Public Safety Center</b>
<b>07 2100</b>	<b>Thermal Insulation - Courthouse Remodel (As Applicable)</b>
<b>07 2100</b>	<b>Thermal Insulation - Public Safety Center (As Applicable)</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Protect installed waterproofing from environmental damage per manufacturer's directions until waterproofing is concealed by backfill and/or subsequent work.
- 1.2. Verify that minimum air and substrate temperatures are satisfied in accordance with the Specifications and manufacturers' requirements prior to the installation.
- 1.3. Substrate preparation, including patching of holes and removal of efflorescence, dirt, dust, fins, splatters, grease, oils, curing compounds, and form release agents.
- 1.4. Substrate moisture testing. Submit results to Contractor.
- 1.5. Adhesion testing.
- 1.6. Coordinate with others for compatibility of products with weather/air barrier, waterproofing, masonry flashings, and joint sealants. No Work shall be performed until product compatibility is established.

#### 2. WATERPROOFING

- 2.1. Foundation wall and elevator pit waterproofing as a complete system(s) including detailing at penetrations and openings.
- 2.2. Detail openings and other penetrations from the work of others.
- 2.3. Drainage panel.
- 2.4. Termination bars.
- 2.5. Rigid insulation board at below grade locations.

**The following work is excluded:**



1. Vapor barrier at slab on grade or structural slab.
2. Weather and air barrier.

**Coordination Items: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.**

1. Manufacturers and Products - Provide the location, name of the manufacturer, and the product confirmation of compatibility for the following:

1.1. Provide the location, name of the manufacturer, and the product confirmation of compatibility for the following:

1.1.1. Waterproofing \_\_\_\_\_

## SCOPE OF WORK 07.20.00 - SPRAY INSULATION

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**SPRAY INSULATION** - Including, but not limited to, Specification sections:

<b>07 2119</b>	<b>Foamed-in-place Insulation - Courthouse Remodel</b>
<b>07 2119</b>	<b>Foamed-in-place Insulation - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Sequence Work as necessary to protect insulation and/or air barrier from prolonged exposure to sunlight. Include a UV-resistant top coat to protect the insulation from the sun.
- 1.2. Clean up daily and after this Work is completed in each area including all overspray onto other substrates. All residue shall be removed.
- 1.3. Engage a manufacturer's representative to provide regular site visits and technical support as required to ensure all Work is being installed in proper thickness and per requirements. Ensure manufacturer is present at time of initial application. Density and thickness testing shall be performed daily with reports forwarded to Contractor.
- 1.4. Adhesion testing.
- 1.5. Confirm with manufacturer and Specification requirements and record substrate temperature daily and by area. Recordings shall be tracked in a log and submitted to the Contractor.
- 1.6. Coordinate with all trades to ensure conduit, hangers, clamps and other attachment devices or in-wall rough-in are in place prior to insulation activities to minimize cutting or removing of insulation.
- 1.7. Coordinate with others to ensure that spray insulation does not conceal metal attachment clips, J-boxes or other components necessary to be accessed after installation of the insulation system. Install temporary dams or forms as may be necessary to allow for subsequent access to these items.

#### 2. SPRAY INSULATION

- 2.1. Spray applied thermal insulation as a complete system including substrate preparation as required to achieve required ratings and per Subcontract Documents.

- 2.2. Auxiliary materials, including but not limited to, primers, flexible membrane flashings, counter flashings, foam stops at rough openings, end of wall conditions, top of wall conditions, sealants and other items required for a complete installation.
- 2.3. Thermal barriers for areas to receive spray foam that are not covered in drywall.
- 2.4. Protection of adjacent materials, finishes, and systems from damage or overspray.
- 2.5. Clean up daily and after this Work is completed in each area. All overspray and residue shall be removed.
- 2.6. Overtime and double time labor costs as required to perform this Work at any interior renovation area within or adjacent to an occupied space.
- 2.7. Ventilation of fumes created during the performance of this Work at any interior renovation area within or adjacent to an occupied space.

**The following work is excluded:**

1. Batt insulation.
2. Board insulation at below grade waterproofing.
3. Roofing insulation.
4. Insulation as part of a firestop assembly.
5. Patching for incidental damage caused by others.

## SCOPE OF WORK 07.27.00 - WEATHER AND AIR BARRIER

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**WEATHER AND AIR BARRIER** - Including, but not limited to, Specification sections:

<b>07 2600</b>	<b>Vapor Retarders - Courthouse Remodel</b>
<b>07 2600</b>	<b>Vapor Retarders - Public Safety Center</b>
<b>07 2700</b>	<b>Air Barriers - Courthouse Remodel</b>
<b>07 2700</b>	<b>Air Barriers - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Substrate preparation, including sheathing joints and screws.
- 1.2. Substrate moisture testing. Submit results to Contractor.
- 1.3. Coordinate sealing (with affected others) of subsequent framing (i.e. hat channels, insulations, and metal panel track systems) to maintain integrity of barrier.
- 1.4. Coordinate with others for compatibility of products with weather/air barrier, waterproofing, masonry flashings, roofing membrane, and joint sealants. No Work shall be performed until product compatibility is established.

#### 2. WEATHER AND AIR BARRIERS

- 2.1. Weather and air barriers as a complete system(s).
- 2.2. Detail openings and other penetrations from the work of others.
- 2.3. Strip in metal flashings (at openings) to weather resistive barrier with manufacturer-approved methods and materials after flashings are installed by others.
- 2.4. Patching for incidental damage by others.
- 2.5. Vapor Retarder VPR RET-10 at exterior-side of precast and CMU walls.

**The following work is excluded:**

1. Vapor barriers for slab on grade.
2. Interior vapor barriers.

**Coordination Items: The following items are requested at bid time and are for**



**coordination only. They will not be included in the Agreement.**

1. Manufacturers and Products - Provide the name of the manufacturer and the product for confirmation of compatibility for the following:

1.1. Weather/Air Barrier System \_\_\_\_\_

1.2. Flexible penetration strip in material \_\_\_\_\_

## SCOPE OF WORK 07.40.00 - METAL WALL PANELS

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**METAL WALL PANELS** - Including, but not limited to, Specification Section(s):

<b>05 5000</b>	<b>Metal Fabrications - Public Safety Center (As Applicable)</b>
<b>07 2100</b>	<b>Thermal Insulation - Courthouse Remodel (As Applicable)</b>
<b>07 2100</b>	<b>Thermal Insulation - Public Safety Center (As Applicable)</b>
<b>07 4213</b>	<b>Metal Wall Panels - Courthouse Remodel</b>
<b>07 4213</b>	<b>Metal Wall Panels - Public Safety Center</b>
<b>07 6200</b>	<b>Sheet Metal Flashing And Trim - Courthouse Remodel (As Applicable)</b>
<b>07 6200</b>	<b>Sheet Metal Flashing And Trim - Public Safety Center (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Coordinate Work with others whose work intersects and/or passes through this Work. Flash, counter flash, and waterproof penetrations.
- 1.2. Isolation strips for connection of dissimilar metals.
- 1.3. Field measurements, field verification, templates, and layout associated with this Scope of Work. Field verification shall be conducted prior to procurement of materials.
- 1.4. Delegated design of metal wall panel system, Shop Drawings, layouts, elevations, anchorage details, clips, supports & reinforcement, trim, and other accessories.
- 1.5. Coordination, assistance, access, and equipment necessary for water/air quality testing of air filtration, water penetration, and wind performance.
- 1.6. Maintain integrity of weather resistive barrier (WRB) during and after installation so no air/water/thermal breaks are present within the system as a result of penetrations created by Work of this Scope.
- 1.7. Joint sealants including as integral to panel systems and at perimeters of panel systems to dissimilar materials.



**2. METAL WALL PANELS**

- 2.1. Metal wall panels including, but not limited to, system specific support framing, girts, clip angles, concealed fasteners, rubber gaskets, closure pieces, specialty shapes, reveals, control joints, and associated flashing.
- 2.2. Insulation behind metal panels with necessary z-clips, or other associated brackets and attachment hardware.
- 2.3. Expansion joint assemblies integral or adjacent to metal wall panel system.
- 2.4. All sheet metal flashing integral to the metal wall panel systems including, but not limited to, SMF-2, counter flashings and reglets, butt joints, thru-wall flashing, equipment support flashing, and exposed metal trim/fascia units.
- 2.5. Metal Panel MET FAB-10 and MET FAB-11.
- 2.6. Weathering Steel Wall Panel WTHR STL-1.
- 2.7. Weathering Steel Soffit Panel WTHR STL-2.
- 2.8. Weathering Steel Utility Enclosure Panel WTHR STL-3.
- 2.9. Interior Weathering Steel Panel WTHR STL-4.
- 2.10. Weathering Steel Plate WTHR STL-5 and WTHR STL-6.

**The following work is excluded:**

- 1. Membrane roofing copings, gutters, scuppers, conductor heads, and downspouts for membrane roofing.
- 2. Splash blocks.
- 3. Insulation defined in other scopes of work.
- 4. Joint sealants defined in other scopes of work.
- 5. Expansion control defined in other scopes of work.
- 6. Weather barrier system behind metal panels.
- 7. Architectural and Mechanical system louvers.

**Schedule:**

- 1. Timing from notice to proceed to submission of complete Metal Wall Panel shop drawings: \_\_\_\_\_ Weeks.
- 2. Timing to fabricate and delivery the Metal Wall Panel materials to Project site after receipt of approved or approved as noted submittals, verification forms, and a signed Contract. Duration provided shall be based upon the number of weeks necessary to deliver an adequate quantity of material to the site to allow installation to commence and continue as indicated per the Project schedule without interruption or delay due to shortages of material on Project site: \_\_\_\_\_ Weeks.
- 3. Duration from completion of field measurements to exterior MWP material delivery:



\_\_\_\_\_ Weeks.

4. Duration of exterior Metal Wall Panel system installation: \_\_\_\_\_.

5. Duration from completion of field measurements to interior MWP material delivery:  
\_\_\_\_\_ Weeks.

6. Duration of interior Metal Wall Panel system installation: \_\_\_\_\_.

## SCOPE OF WORK 07.50.00 - MEMBRANE ROOFING

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**MEMBRANE ROOFING** - Including, but not limited to, Specification Section(s):

<b>02 4100</b>	<b>Demolition - Courthouse Remodel (As Applicable)</b>
<b>07 5300</b>	<b>Elastomeric Membrane Roofing - Courthouse Remodel</b>
<b>07 5300</b>	<b>Elastomeric Membrane Roofing - Public Safety Center</b>
<b>07 6200</b>	<b>Sheet Metal Flashing And Trim - Courthouse Remodel (As Applicable)</b>
<b>07 6200</b>	<b>Sheet Metal Flashing And Trim - Public Safety Center (As Applicable)</b>
<b>07 7200</b>	<b>Roof Accessories - Public Safety Center</b>
<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>08 6200</b>	<b>Unit Skylights - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Coordinate Work with others whose work intersects and/or passes through this Work. Detail penetrations, flash, counter flash, and waterproof penetrations.
- 1.2. Clean roof substrate and prepare surface prior to start of roofing activities.
- 1.3. Weather protection at end of each work day during progress to maintain a weathertight roof system.
- 1.4. Shop Drawings for roof accessories, joint conditions, and sheet metal flashings.
- 1.5. Roof system mock-up. Mock-up can be incorporated into the completed construction.

#### 2. MEMBRANE ROOFING

- 2.1. Elastomeric membrane roofing system including, but not limited to, membrane, substrate boards, roofing vapor retarder, flexible flashings, underlayment, roof insulation, walkway pads, termination bars, reglets, adhesives, fasteners, and accessories necessary for a complete system.
- 2.2. Roofing-related sheet metal flashing including, but not limited to, parapet coping, counter flashings and reglets, curb flashings, equipment support flashings.
- 2.3. Joint sealants necessary for a complete system.



- 2.4. Roof accessories including, but not limited to, roof hatches and skylights including associated roof curbs.
- 2.5. Roof Pads PAVER-1. Includes Shop Drawings for coordination and verification of layout prior to installation.
- 2.6. Selective demolition and tie-in at existing Courthouse roof parapet as indicated.
- 2.7. Roof removal and patching as required at existing roof areas where new penetrations are required for the work of others. Coordinate roof removal, penetrations, patching with others in advance to return the roof to a water-tight condition at the end of each work day.

**The following work is excluded:**

- 1. Roof curbs for mechanical units including insulation within curbs.
- 2. Roof parapet blocking and insulation.
- 3. Expansion joint assemblies defined in other scopes of work.
- 4. Joint sealants defined in other scopes of work.
- 5. Vapor retarders defined in other scopes of work.

**Manufacturers and Products: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.**

1. Provide the location, name of the manufacturer, and the product for confirmation of compatibility for the following:

1.1. Roofing System \_\_\_\_\_

## **SCOPE OF WORK 08.10.01 - DOORS, FRAMES AND HARDWARE (SUPPLY)**

### **SCOPE OF WORK**

The Supplier shall furnish the following material and equipment:

**DOORS, FRAMES AND HARDWARE (SUPPLY)** - Including, but not limited to, material and equipment required by Specification Section(s):

<b>08 1113</b>	<b>Hollow Metal Doors And Frames - Courthouse Remodel</b>
<b>08 1113</b>	<b>Hollow Metal Doors And Frames - Public Safety Center</b>
<b>08 1416</b>	<b>Flush Wood Doors - Courthouse Remodel</b>
<b>08 1416</b>	<b>Flush Wood Doors - Public Safety Center</b>
<b>08 1613</b>	<b>Fiberglass Doors - Public Safety Center</b>
<b>08 7100</b>	<b>Door Hardware - Courthouse Remodel (As Applicable)</b>
<b>08 7100</b>	<b>Door Hardware - Public Safety Center (As Applicable)</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. **GENERAL**

- 1.1. Coordinate rough-in requirements for doors and frames with electrical and security trades.
- 1.2. Include raceways within doors and frames for electrified openings.
- 1.3. Shop Drawings, Submittals, Samples, and hardware schedule within four (4) weeks of fully executed Agreement.
- 1.4. Installation templates for the Work of this Scope.
- 1.5. Multiple deliveries, as necessary, per Schedule. Includes phased deliveries for door frames, exterior doors/hardware, and interior doors/hardware respectively. Coordinate delivery sequence and times with Contractor.
- 1.6. Frame, door, and hardware deliveries to be palletized by floor and building area.
- 1.7. Label doors, frames, and hardware with the associated opening number.
- 1.8. Host a meeting focused specifically on electrified hardware coordination with door, frame, and hardware installer, Project's hardware consultant, and interfacing trades.
- 1.9. Participate in security coordination meetings.
- 1.10. Hardware consultant to participate in keying coordination meeting with the Owner to establish keying requirements, set-up, identification labeling, and keying schedule.
- 1.11. Participate in pre-installation meeting prior to the installation of the finish hardware.

1.12. Field verification of openings at areas of renovation, openings at cast-in-place concrete walls, and openings at precast concrete prior to fabrication of associated frames.

2. DOORS, FRAMES AND HARDWARE

2.1. Hollow metal door frames, hollow metal window frames, and sidelights.

2.2. Hollow metal doors.

2.3. Fiberglass doors and frames.

2.4. Pre-finished wood doors. Wood doors to be prefinished on both faces and edges.

2.5. Door hardware and accessories.

2.6. Electronic door hardware such as power supplies, power transfers, door contacts, door position switches, transformers, panic/exit devices, mag hold opens, automatic operators, and push buttons at hollow metal and wood doors.

2.7. Cores/cylinders at doors, including doors provided by others. This includes, but is not limited to, aluminum doors, all-glass doors, and overhead sectional doors.

2.8. Window lites and louver grilles in hollow metal and wood doors.

2.9. Knox Boxes.

2.10. Factory applied concealed or recessed material and smoke/draft control gasketing for fire-rated doors.

2.11. Keys and keying as required by the Project Specifications.

2.12. Miscellaneous clips, fasteners, anchors, and accessories.

2.13. Door hardware at existing or re-used doors and frames. Include machining and repair of existing doors and frames to receive new hardware. Re-certify fire rated openings.

2.14. Fabricate doors and frames to accommodate slab depressions and flooring systems.

2.15. Minimum of three (3) anchors per jamb to attach door frames to adjoining construction.

2.16. Blocking and templates for hardware at hollow metal and wood doors.

2.17. Rust inhibiting primer.

2.18. Mastic coating at the inside of hollow metal frames to be grouted.

2.19. Machine and prepare doors and frames to receive the specified hardware. Provide labeling at fire-rated openings.

2.20. Gasketing for sound-controlled doors.

2.21. Gasketing and seals as required to maintain design pressurization of Air Lock A005.

2.22. Keying of permanent lock cores.



- 2.23. Temporary construction cores and keys.
- 2.24. Key cabinet(s) and key inventory systems.
- 2.25. Touch-up material for pre-finished doors.

**The following work is excluded:**

- 1. Access panels and doors.
- 2. Overhead coiling doors.
- 3. Aluminum or all-glass doors and associated hardware (except for cylinders).
- 4. Card readers.
- 5. Glass and glazing within doors and frames.
- 6. Expansion joint covers.
- 7. Hardware at fences.

**Schedule**

- 1. Timing from notice to proceed to submission of complete DFH submittals: \_\_\_\_\_ Weeks.
- 2. Timing to fabricate and deliver hollow metal frames after receipt of approved (or approved as noted) submittals, verification forms, and a signed Contract: \_\_\_\_\_.
- 3. Timing to fabricate and deliver hollow metal doors after receipt of approved (or approved as noted) submittals, verification forms, and a signed Contract: \_\_\_\_\_.
- 4. Timing to fabricate and deliver wood doors after receipt of approved (or approved as noted) submittals, verification forms, and a signed Contract: \_\_\_\_\_.
- 5. Timing to fabricate and deliver door hardware after receipt of approved (or approved as noted) submittals, verification forms, and a signed Contract: \_\_\_\_\_.

**Contractor Requested Alternates**

- 1. Mount all hardware on doors prior to delivery. Doors to be palletized and delivered to jobsite with hardware pre-installed. Includes hardware on door only. All connecting hardware, including but not limited to closer arms, frame seals, and stops, is to be field attached and delivered with door.
  - 1.1. Cost ADD: \$ \_\_\_\_\_
  - 1.2. Lead Time ADD: \_\_\_\_\_ Weeks



**SCOPE OF WORK 08.33.00 - SECTIONAL DOORS**

**SCOPE OF WORK**

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**SECTIONAL DOORS** - Including, but not limited to, Specification Section(s):

- 08 3613            Sectional Doors - Public Safety Center**
- Div 00            Procurement and Contracting Requirements - Courthouse Remodel**
- Div 00            Procurement and Contracting Requirements - Public Safety Center**
- Div 01            General Requirements - Courthouse Remodel**
- Div 01            General Requirements - Public Safety Center**

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Unloading and distribution of material to be installed.
- 1.2. Quantity and damage inspection of materials once delivered to the Project.

2. OVERHEAD AND COILING DOORS

- 2.1. Overhead sectional doors including, but not limited to, power operator, control devices, guides, hood, motors, panels, hardware, seals, fasteners, safety edges, handheld transmitters, and accessories required for a complete installation.
- 2.2. Low voltage hook-up and wiring required for a complete installation.
- 2.3. Door sills and weather stripping.
- 2.4. Factory authorized service representative to perform start-up, demonstration, and training upon completion of installation.
- 2.5. Balancing and final adjustment of installed doors.

**The following work is excluded:**

- 1. Hollow metal doors and frames.
- 2. Wood doors and frames.
- 3. 120V power to doors.
- 4. Structural overhead support.

**Schedule:**

- 1. Provide the number of weeks from notice to proceed to the submission of complete Overhead Sectional Door shop drawings, samples, product data, and other associated submittals: \_\_\_\_\_ Weeks



2. Provide lead time for Overhead Sectional Doors after approved submittals: \_\_\_\_\_  
Weeks
3. Provide installation duration: \_\_\_\_\_ Weeks.

## SCOPE OF WORK 08.40.00 - GLASS & GLAZING

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**GLASS & GLAZING** - Including, but not limited to, Specification Section(s):

<b>07 2100</b>	<b>Thermal Insulation - Courthouse Remodel (As Applicable)</b>
<b>07 2100</b>	<b>Thermal Insulation - Public Safety Center (As Applicable)</b>
<b>07 6200</b>	<b>Sheet Metal Flashing And Trim - Courthouse Remodel (As Applicable)</b>
<b>07 6200</b>	<b>Sheet Metal Flashing And Trim - Public Safety Center (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>08 4313</b>	<b>Aluminum-framed Storefronts - Courthouse Remodel</b>
<b>08 4313</b>	<b>Aluminum-framed Storefronts - Public Safety Center</b>
<b>08 4413</b>	<b>Glazed Aluminum Curtain Walls - Courthouse Remodel</b>
<b>08 4413</b>	<b>Glazed Aluminum Curtain Walls - Public Safety Center</b>
<b>08 5653</b>	<b>Security Windows - Courthouse Remodel</b>
<b>08 5653</b>	<b>Security Windows - Public Safety Center</b>
<b>08 7100</b>	<b>Door Hardware - Courthouse Remodel (As Applicable)</b>
<b>08 7100</b>	<b>Door Hardware - Public Safety Center (As Applicable)</b>
<b>08 8000</b>	<b>Glazing - Courthouse Remodel</b>
<b>08 8000</b>	<b>Glazing - Public Safety Center</b>
<b>08 8800</b>	<b>Special Function Glazing - Courthouse Remodel</b>
<b>08 8800</b>	<b>Special Function Glazing - Public Safety Center</b>
<b>08 8813</b>	<b>Fire-rated Glazing - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Delegated design Shop Drawings and calculations for curtainwall, storefront, and entrance doors.
- 1.2. Coordination, assistance, access and equipment necessary for water/air quality testing of window systems.
- 1.3. Miscellaneous clips, shims, fasteners, anchors, and accessories required for a complete installation of the Work of this Scope.

- 1.4. Mock-ups. Mock-ups can be incorporated into the completed construction.
  - 1.5. Dimensioned layout drawings for embeds to be installed by others.
  - 1.6. Remobilize when directed to install glass & glazing in openings from material platforms, scaffold stairs, or other access points.
  - 1.7. Remove labels, stickers, temporary coverings, excessive sealants, dirt, and debris from glass and aluminum surfaces.
  - 1.8. Touch-up painting of prefinished assemblies upon completion of this Scope of Work as well as prior to Substantial Completion.
  - 1.9. Attic stock materials.
2. ENTRANCES, STOREFRONTS, AND CURTAINWALLS
- 2.1. Aluminum framed entrances and storefronts, all-glass entrances, curtain walls, translucent wall and roof assemblies, glass and glazing, and applied films as indicated.
  - 2.2. Door hardware and automatic operators for aluminum doors and all-glass entrance doors. Machine doors and frames to receive hardware. Keying and cores/cylinders by others.
  - 2.3. Automatic door openers with pedestal and button for aluminum framed entrances and storefronts.
  - 2.4. Low voltage hook-up and wiring required for a complete installation.
  - 2.5. Insulation concealed within aluminum storefront and curtainwall assemblies. This includes, but is not limited to, mullion insulation, spandrel glass insulation, foil backed insulation, metal back-pans, and insulation of shim spaces or pockets to adjacent construction materials.
  - 2.6. Sill pan with integral end dams set in mastic, jamb, head, and counter flashings at all window openings. Exposed flashings shall match window finish.
  - 2.7. Coordinate aluminum storefront and curtainwall sheet metal flashing profile and dimensions with adjoining materials including, but not limited to, precast, metal wall panels, and foundation insulation.
  - 2.8. Aluminum flashings to hold backer rods in place and separate all wood blocking from joint sealants.
  - 2.9. Raceways and conduit integral to aluminum framing members for electric door hardware, security systems, and automatic operators.
  - 2.10. Furnish embeds to be cast into concrete and precast assemblies. Embed installation by others.
  - 2.11. Miscellaneous steel to brace and/or support assemblies installed. Steel that is shown and sized on the Structural Drawings will be by others.
  - 2.12. Anchors and clips used to support aluminum framing members to be concealed behind adjacent interior finishes.

- 2.13. Flexible flashings and silicone transition assemblies installed in conjunction with or after exterior curtainwall, storefront, or entrance systems are installed.
  - 2.14. Air barrier flexible flashings at precast sills, jambs, and head conditions to aluminum assemblies.
  - 2.15. Intermediate and corner mullion wraps at installed assemblies. Finish and color to match adjoining materials.
  - 2.16. Exterior and interior perimeter joint sealants between windows and dissimilar materials.
  - 2.17. Inspect air barrier and vapor barrier after storefront and curtainwall installation, prior to installation of interior finishes, to ensure it is complete, properly sealed, and free of holes and other defects.
3. INTERIOR GLAZING
- 3.1. Interior aluminum storefront, glass walls, glass doors, glazing, applied films, and mirrors as indicated.
  - 3.2. Interior perimeter joint sealants between windows and dissimilar materials.
  - 3.3. Tempered glass where glass surfaces are less than eighteen inches (18") above finished floor and other locations indicated.
  - 3.4. Glass and glazing within hollow metal and wood doors and frames. Lite kits by others.
  - 3.5. Specialty glass including, but not limited to, security windows, lapped glazing, special function glazing, and fire-rated glazing.

**The following work is excluded:**

1. Roof skylight assembly.
2. Joint sealants in other scopes of work.
3. Flashings in other scopes of work.
4. Final cleaning of windows, storefront, and aluminum doors.
5. Glass in architectural woodwork or furniture items, unless specifically listed above.
6. Wood blocking.
7. Hollow metal doors and frames
8. Wiring and final connections of security system contacts.

## SCOPE OF WORK 09.20.00 - DRYWALL

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**DRYWALL** - Including, but not limited to, Specification Section(s):

<b>05 4000</b>	<b>Cold-formed Metal Framing - Courthouse Remodel</b>
<b>05 4000</b>	<b>Cold-formed Metal Framing - Public Safety Center</b>
<b>07 2100</b>	<b>Thermal Insulation - Courthouse Remodel (As Applicable)</b>
<b>07 2100</b>	<b>Thermal Insulation - Public Safety Center (As Applicable)</b>
<b>07 8400</b>	<b>Firestopping - Courthouse Remodel (As Applicable)</b>
<b>07 8400</b>	<b>Firestopping - Public Safety Center (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>09 2116</b>	<b>Gypsum Board Assemblies - Courthouse Remodel</b>
<b>09 2116</b>	<b>Gypsum Board Assemblies - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Delegated design by an engineer licensed in the state where the Project is located for structural cold formed metal framing systems. Submit stamped and sealed drawings for approval.
- 1.2. Upon completion of taping work, remove excess taping compound. Sweep floors clean with dust-collecting compound.
- 1.3. Clean floor tracks of debris prior to installing gypsum board.
- 1.4. Coordinate layout of openings through partitions as wall framing progresses, including opening size, elevation, and horizontal dimensioning based on column or wall centerlines.
- 1.5. Coordinate top-out of partitions at priority walls (as determined by Contractor) with others.
- 1.6. Drywall patching at all renovation areas.
- 1.7. Level 5 finish at all applied graphic and wall covering conditions.

#### 2. FRAMING, SHEATHING AND DRYWALL

- 2.1. Structural cold formed metal framing, light gauge metal trusses, exterior sheathing, and miscellaneous clips, shims, fasteners, anchors, and accessories required for a complete installation. Includes areas such as exterior walls, soffits, ceilings, parapets, exterior columns, and other locations indicated.
- 2.2. Thermal insulation within drywall assemblies including batt, sound, and rigid insulation.
- 2.3. Acoustical sealant and gaskets in drywall assemblies.
- 2.4. Gypsum wallboard assemblies including, but not limited to, light gauge metal framing, furring channels, light gauge trusses, bracing, slip track, fire track, compressible gaskets, concealed sealants, insulation, gypsum board, expansion joints, control joints, reveals, and taping and sanding.
- 2.5. Gypsum board ceiling suspension, framing, trim, bracing, hangers, miscellaneous clips, shims, fasteners, anchors, and accessories. Include additional framing for sprinkler heads, diffusers, chilled beams, grilles, and other mechanical and electrical components. Coordinate ceiling framing with others.
- 2.6. Install hollow metal door and window frames in gypsum board partitions. Frames furnished by others.
- 2.7. Install access doors. Doors furnished by others. Coordinate quantities with others.
- 2.8. Mechanical fastening of light gauge metal framing.
- 2.9. Non-corrosive fasteners for attachment to treated lumber.
- 2.10. Tile backer board (cement board) and joint sealant at tub surrounds, tub shelves, showers, and other wet wall locations.
- 2.11. Shaftwall assemblies, including horizontal enclosures.
- 2.12. Compressible filler, gaskets, and rigid insulation where drywall meets exterior glass or window mullions.
- 2.13. Wall and ceiling control and expansion joints and covers in drywall. Coordinate with others.
- 2.14. Isolation where framing meets structural components.
- 2.15. Hold drywall one quarter to one half inch ( $\frac{1}{4}$ " –  $\frac{1}{2}$ ") off floor to prevent water from wicking.
- 2.16. Fry reglets and other reveals.
- 2.17. Metal stud framing at Courtroom casework and wood wall paneling as indicated including, but not limited to, Judge Counter 7D/A622, Judge Bench Wall 5D/A622, Judge Book Shelf 3D/A622, Witness & Recorder Counter 7B/A622, Clerk Desk 5B/A622, Free Standing Wall 2B/A622, and Jury Room Wall 1B/A622
- 2.18. Metal stud framing at Public Safety Center reception desk as indicated per details 5C/A620 and 4C/A620.

2.19. Fasten gypsum board to ballistic fiberglass panels at Type B partitions. Ballistic panels by others.

3. TAPE AND BED

3.1. Tape, bed, sand, and finish gypsum board systems, including at recessed light fixtures. Sanding of drywall to be performed mechanically with dust collecting equipment.

3.2. Tape and float behind tile, including glass mat and fibermesh tape.

3.3. Tape and float walls to deck, including above ceilings.

3.4. Tape and float drywall in mechanical and electrical spaces in levels indicated.

3.5. Firetape at rated walls.

3.6. Sand walls and trim between paint coats.

**The following work is excluded:**

1. Thermal insulation defined in other scopes of work.
2. Joint sealants defined in other scopes of work.
3. Expansion joints and covers defined in other scopes of work.
4. Weather barrier systems defined in other scopes of work.
5. Temporary heat and enclosures for this Work.
6. Installation of doors and hardware.
7. Taping of exterior sheathing joints.

## SCOPE OF WORK 09.30.00 - TILING

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**TILING** - Including, but not limited to, Specification sections:

<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>09 3000</b>	<b>Tiling - Courthouse Remodel</b>
<b>09 3000</b>	<b>Tiling - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Verify substrates are acceptable for installation of material including surface conditions, compatibility with existing finishes, and bonding prior to the start of the Work. Confirm flatness of subsurfaces before beginning the installation of this Scope of Work.
- 1.2. Test slab moisture content, pH, and vapor testing per Specification and manufacturer's recommendations (minimum of both calcium chloride and relative humidity test) prior to the start of the Work. Submit documentation to Contractor.
- 1.3. Clean concrete floor (including, but not limited to, mopping, buffing, sanding, and bead blasting for acceptable substrate) prior to installation of flooring. Scraping of drywall mud by others.
- 1.4. Floor preparation, including, trowelable underlayments and patching compounds, as required to meet flooring manufacturer requirements. Reference Division 3 for specified floor flatness and levelness requirements provided by others. Floor preparation includes concrete joints, repair of chips or dings, and deviations in elevation outside the specified levels. Work also includes transitions between rooms, doorways, and transitions from new to existing.
- 1.5. Joint sealants in expansion, contraction, control, and isolation joints in finished surfaces.
- 1.6. Protection of finished Work to include reinforced paper/Masonite as directed by Contractor. Use non-marking tape and maintain protection until punch-list activities begin. Remove and dispose of protection material as directed by Contractor.
- 1.7. Unless noted otherwise, at doorways, center seams and floor transitions shall be placed

under the door when in the closed position.

- 1.8. Cut flooring materials to fit tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings.
- 1.9. Confirm slopes to drains before beginning the installation of this Scope of Work.
- 1.10. Polished cuts and cores for receptacles, switches, plumbing fixtures, and penetrations.
- 1.11. Finishing and/or sealing of finished product.
- 1.12. Caulk inside corners in lieu of grout.

## 2. TILE AND STONE WORK

- 2.1. Floor, wall, base, thresholds, special shapes, and trim, including setting and grouting materials for tile, mortar, trowelable underlayment, crack isolation membranes, sealing of grout joints, transition strips, metal edge strips, and grout release.
- 2.2. Wall preparation, including wall sanding, edge and reducer strips, metal termination strips between wall materials, primers, adhesives, setting mortar, and other miscellaneous items required. The Work includes any wall fill or leveling compound required at wall joints.
- 2.3. Provide CER TILE-1 at ceiling conditions as shown on reflective ceiling plan.

### **The following work is excluded:**

1. Floor expansion joint covers.
2. Temporary heat and enclosures.
3. Joint sealants defined in other scopes of work.
4. Concrete vapor sealer.
5. Final cleaning.
6. Cementitious backer board.
7. Major floor preparation (self-leveling and grinding of subfloor) above and beyond preparation defined in inclusions.

## SCOPE OF WORK 09.50.00 - ACOUSTICAL CEILINGS AND WALL TREATMENTS

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**ACOUSTICAL CEILINGS AND WALL TREATMENTS** - Including, but not limited to, Specification Section(s):

<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>09 5100</b>	<b>Acoustical Ceilings - Courthouse Remodel</b>
<b>09 5100</b>	<b>Acoustical Ceilings - Public Safety Center</b>
<b>09 5423</b>	<b>Linear Metal Ceilings - Public Safety Center</b>
<b>09 5426</b>	<b>Suspended Wood Ceilings - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Coordinate bulkhead details and interfacing sheetrock ceilings with acoustical ceilings.
- 1.2. Cut outs and patching in acoustical ceilings for others.
- 1.3. Non-corrosive fasteners for attachment to treated lumber.
- 1.4. Coordinate ceiling heights with others.
- 1.5. All necessary mobilizations, phasing, manpower, equipment and other provisions as required by the project schedule.
- 1.6. Vertical access as needed to complete elevated work.
- 1.7. Paint cut edge of ceiling tile where exposed.
- 1.8. For replacement of ceiling tile, include a five percent (5%) allowance (measured in quantity of tile and linear feet of grid), including removal and installation, for use as directed by Contractor. Allowance is in addition to specified Owner stock. Any unused material of this allowance will be turned over to the Owner and labor will be reimbursed to the Owner.

#### 2. ACOUSTICAL CEILINGS AND TREATMENTS

- 2.1. Acoustical ceiling system including, but not limited to, suspension system, hangers and wire, metal grid system, acoustical ceiling tile, seismic wiring for lighting, vertical

closures where ceilings do not terminate at walls, expansion / control joints, trim, additional ceiling supports, clips, shims, fasteners, anchors, and accessories.

- 2.2. Acoustical treatments including, but not limited to, acoustic decorative panels, sound diffusing panels and vibration control.
- 2.3. Acoustical sealants in acoustical ceiling systems, including caulking of ceiling grid where indicated.
- 2.4. Acoustical ceiling expansion joints and covers.
- 2.5. Trapeze style supports as required to coordinate with overhead MEP (Mechanical/Electrical/Plumbing) obstructions.
- 2.6. Acoustic ceiling types ACT-1, ACT-2, ACT-4, and metal ceiling system MCT-1.

### 3. SUSPENDED WOOD CEILINGS

- 3.1. Complete suspended wood ceiling system including, but not limited to, suspension system, expansion / control joints, trim, additional ceiling supports, clips, shims, fasteners, anchors, and accessories.
- 3.2. Wood ceiling system WCS-1.

### 4. SOUND-ABSORBING WALL AND CEILING UNITS

- 4.1. Complete acoustic wall and ceiling panel system including, but not limited to, suspension system, expansion / control joints, trim, additional ceiling supports, clips, shims, fasteners, anchors, and accessories.
- 4.2. Fabric covered acoustical panels at wall conditions.
- 4.3. Provide Alternate 6 pricing for wood wool acoustic ceiling panels, WWAP-3, at shooting range.

#### **The following work is excluded:**

1. Thermal insulation defined in other scopes of work.
2. Joint sealants defined in other scopes of work.
3. Firestopping assemblies.
4. Expansion joints and covers defined in other scopes of work.
5. Temporary heat and enclosures for this Work.
6. Ceramic tile ceilings.

## SCOPE OF WORK 09.65.00 - RESILIENT FLOORING AND CARPET

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**RESILIENT FLOORING AND CARPET** - Including, but not limited to, Specification sections:

<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>09 6500</b>	<b>Resilient Flooring - Courthouse Remodel</b>
<b>09 6500</b>	<b>Resilient Flooring - Public Safety Center</b>
<b>09 6566</b>	<b>Resilient Athletic Flooring - Public Safety Center</b>
<b>09 6813</b>	<b>Tile Carpeting - Courthouse Remodel</b>
<b>09 6813</b>	<b>Tile Carpeting - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Verify substrates are acceptable for installation of material including surface conditions, compatibility with existing finishes, and bonding prior to the start of the Work. Confirm flatness of subsurfaces before beginning the installation of this Scope of Work.
- 1.2. Test slab moisture content, pH, and vapor testing per Specification and manufacturer's recommendations (minimum of both calcium chloride and relative humidity test) prior to the start of the Work. Submit documentation to Contractor.
- 1.3. Clean concrete floor (including, but not limited to, mopping, buffing, sanding, and bead blasting for acceptable substrate) prior to installation of flooring. Scraping of drywall mud by others.
- 1.4. Floor preparation including, trowelable underlayments and patching compounds as required to meet flooring manufacturer requirements. Reference Division 3 for specified floor flatness and levelness requirements provided by others. Floor preparation includes concrete joints, repair of chips or dings, and deviations in elevation outside the specified levels. Work also includes transitions between rooms, doorways, and transitions from new to existing.
- 1.5. Joint sealants in expansion, contraction, control, and isolation joints in finished surfaces.

- 1.6. Protection of finished Work to include reinforced paper/masonite at full width of corridors, lobbies, and high traffic areas as directed by Contractor. Use non-marking tape and maintain protection until punch-list activities begin. Remove and dispose of protection material as directed by Contractor.
- 1.7. Unless noted otherwise, at doorways, center seams and floor transitions shall be placed under the door when in the closed position.
- 1.8. Cut flooring materials to fit tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings.
- 1.9. Do not install finished flooring over layout markings on floor that may bleed through flooring products. If encountered, notify Contractor prior to installation.
- 1.10. Caulking at the top of floor base.
- 1.11. Bind or seal cut edges.
- 1.12. At inside corners and termination to dissimilar materials, where transition pieces are not detailed, provide color and material matched joint sealant.
- 1.13. Clean-up at installation and material staging/storage areas for this Scope of Work on a daily basis.

## **2. RESILIENT AND CARPET FLOORING**

- 2.1. Carpet tile, resilient tile, athletic flooring, and resilient base including transitions, reducer strips, metal termination strips between flooring materials, primers, adhesives, moisture test kits, underlayment, and other miscellaneous accessories.
- 2.2. Flooring infill at floor box covers.
- 2.3. Maintain uniformity of carpet direction.
- 2.4. Five percent (5%) extra stock of carpet tile for potential damage, including labor to remove existing and install new, above and beyond Owner stock. The extra stock will be used at the discretion of the Contractor. Removal, disposal, and re-installation is included. Any unused material from this allowance will be turned over to the Owner and any unused labor will be reimbursed to the Owner.
- 2.5. Floor types LSF-1, LVT-1, LVT-2, CPT-1, CPT-2, CPT-3, CPT-10, and RAF-1.

### **The following work is excluded:**

1. Floor expansion joint covers.
2. Temporary heat and enclosures.
3. Major floor preparation (self-leveling and grinding of subfloor) above and beyond preparation defined in inclusions.
4. Joint sealants defined in other scopes of work.
5. Concrete vapor sealer.
6. Final cleaning.



7. Wood base.



**SCOPE OF WORK 09.66.23 - Precast Terrazzo Stair Units (Supply)**

**SCOPE OF WORK**

The Supplier shall furnish the following material and equipment:

**Precast Terrazzo Stair Units (Supply)** - Including, but not limited to, material and equipment required by Specification Section(s):

- 09 6623                Resinous Matrix Terrazzo Flooring - Public Safety Center**
- Div 00                Procurement and Contracting Requirements - Public Safety Center**
- Div 01                General Requirements - Public Safety Center**

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Deliver precast terrazzo stair units to jobsite in accordance with the schedule defined by Contractor. Coordinate delivery with Contractor.
- 1.2. Mock-ups as indicated. Preliminary drawing and finish selection to be approved by the Contractor. Provide full size precast terrazzo tread mock-up within four (4) weeks after notice to proceed.
- 1.3. Delegated design with calculations for connections, including seal of professional engineer licensed in the State where the Project is located, on Shop Drawings and calculations.

2. PRECAST TERRAZZO STAIR UNITS

- 2.1. Precast terrazzo stair units including, but not limited to, integral reinforcement, integral weld plates, integral abrasive strips, and factory finished surface.
- 2.2. Slip resistant coating applied to precast terrazzo stair units.

**The following work is excluded:**

- 1. Offload or installation of terrazzo stair units.

## SCOPE OF WORK 09.90.00 - PAINTING AND WALLCOVERING

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**PAINTING AND WALLCOVERING** - Including, but not limited to, Specification Section(s):

<b>09 7200</b>	<b>Wall Coverings - Courthouse Remodel</b>
<b>09 9113</b>	<b>Exterior Painting - Courthouse Remodel</b>
<b>09 9113</b>	<b>Exterior Painting - Public Safety Center</b>
<b>09 9123</b>	<b>Interior Painting - Courthouse Remodel</b>
<b>09 9123</b>	<b>Interior Painting - Public Safety Center</b>
<b>09 9300</b>	<b>Staining And Transparent Finishing - Courthouse Remodel</b>
<b>09 9300</b>	<b>Staining And Transparent Finishing - Public Safety Center</b>
<b>09 9600</b>	<b>High-performance Coatings - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Surface preparation for the Work of this Scope.
- 1.2. Verify substrates are acceptable for applying coatings and/or wallcovering over substrate, including surface conditions, compatibility with existing finishes, and bonding prior to the start of the Work.
- 1.3. Moisture test subsurface, with testing method approved by the Contractor, before beginning the installation of wall finishes. Submit results to Contractor before beginning the Work.
- 1.4. Clean paint residue from floor and adjacent surfaces daily. Remove overspray.
- 1.5. Clean-up and disposal of paint and cleaning material including off-site disposal of paint and cleaning agent cans. Disposal of products in site inlet grates is not allowed.
- 1.6. "Wet Paint" signs to protect newly coated surfaces. Remove and dispose temporary protection, including protection provided by others to protect work, after completing the Work of this Scope.
- 1.7. Reasonable touch-up immediately prior to punch-list activities.
- 1.8. All necessary mobilizations, phasing, manpower, equipment, and other provisions as required by the Project schedule.

- 1.9. Reinstall hardware and accessories, electrical plates and covers, light fixture trims, and similar items if removed to complete Scope of Work.
- 1.10. Vertical access as required to complete elevated Work including, but not limited to, scissor lifts, booms lifts, and scaffolding.

## 2. INTERIOR COATINGS

- 2.1. Interior painting and staining including, but not limited to, surface preparation, block fillers, primers, sealers, paints, coatings, high performance coatings, and stains.
- 2.2. Prepare and paint items identified to receive field applied coatings, field or shop finishing of any unfinished wood or metal items, access doors, exposed MEP items, or exposed structure.
- 2.3. Prepare and stain items identified to receive field applied or shop staining, including, but not limited to, wood doors, standing and running trim, base, paneling, millwork, casework, and other finish carpentry items.
- 2.4. Prepare and paint interior exposed steel items including, but not limited to, metal decking, beams, columns, joists, other structural steel members, handrails, stair stringers and treads, guardrails, and any other exposed miscellaneous steel items.
- 2.5. Prepare and paint ductwork, piping, fire suppression piping, standpipes, grilles, diffusers, supports, and electrical items where exposed to view. Mask labels on MEP equipment prior to painting.
- 2.6. Prepare and paint sides and edges of plywood for electrical and communications equipment prior to installation, and touch-up following installation.
- 2.7. Apply prime and first coat of paint prior to ceiling grid and room finish work. Apply final coat of paint following installation of room finishes, except for floor base and outlet covers.
- 2.8. Utilize epoxy paint at wet locations to receive paint.
- 2.9. Concrete floor sealer on exposed concrete floors as indicated. Clean and prepare floor (mopping, buffing, sanding) prior to application of sealer. Scraping of drywall mud by others. Close off drains and other penetrations when applying floor sealer.
- 2.10. Two additional trips for painting touch up: One during final punchlist and one after Owner furnishings and equipment are installed.

## 3. WALLCOVERING

- 3.1. Vinyl wallcoverings, including surface preparation and sealers, adhesive manufactured expressly for use with selected wallcoverings, and test panels.
- 3.2. Wallcovering shall be installed following casework and ceilings.

## 4. EXTERIOR PAINTING AND STAINING

- 4.1. Prepare and paint exterior site items including, but not limited to, railings, bollards, Project specific items, and all other items not indicated to be factory finished.
- 4.2. Prepare and paint exterior metals not specified as prefinished including, but not limited to, hollow metal doors and frames.

4.3. Prepare and paint gas piping.

**The following work is excluded:**

1. Temporary heat and enclosures for this Work.
2. Joint sealants defined in other scopes of work.
3. Pavement markings, striping, and signs.
4. Taping of exterior sheathing joints.
5. Skimming or grinding concrete.
6. Painting of pre-finished items.
7. Fire resistant coatings.
8. Wall and corner guards.
9. Tackable wall panels.

## **SCOPE OF WORK 10.00.00 - SPECIALTIES, FRP (FURNISH AND INSTALL)**

### **SCOPE OF WORK**

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**SPECIALTIES, FRP (FURNISH AND INSTALL)** - Including, but not limited to, Specification sections:

<b>06 8316</b>	<b>Fiberglass Reinforced Paneling - Courthouse Remodel</b>
<b>06 8316</b>	<b>Fiberglass Reinforced Paneling - Public Safety Center</b>
<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>10 1100</b>	<b>Visual Display Units - Courthouse Remodel</b>
<b>10 1100</b>	<b>Visual Display Units - Public Safety Center</b>
<b>10 1419</b>	<b>Dimensional Letter Signage - Public Safety Center</b>
<b>10 1423</b>	<b>Panel Signage - Courthouse Remodel</b>
<b>10 1423</b>	<b>Panel Signage - Public Safety Center</b>
<b>10 2113.19</b>	<b>Plastic Toilet Compartments - Courthouse Remodel</b>
<b>10 2113.19</b>	<b>Plastic Toilet Compartments - Public Safety Center</b>
<b>10 2600</b>	<b>Wall And Door Protection - Courthouse Remodel</b>
<b>10 2600</b>	<b>Wall And Door Protection - Public Safety Center</b>
<b>10 2800</b>	<b>Toilet, Bath, And Laundry Accessories - Courthouse Remodel</b>
<b>10 2800</b>	<b>Toilet, Bath, And Laundry Accessories - Public Safety Center</b>
<b>10 4400</b>	<b>Fire Protection Specialties - Courthouse Remodel</b>
<b>10 4400</b>	<b>Fire Protection Specialties - Public Safety Center</b>
<b>10 7500</b>	<b>Flagpoles - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. **GENERAL**

- 1.1. Miscellaneous clips, shims, fasteners, anchors, accessories, expansion anchors, and adhesives as required to complete the Work.
- 1.2. Coordinate Scope of Work with others prior to beginning the Work.
- 1.3. Field measure prior to fabrication and adjust Shop Drawings accordingly.
- 1.4. Shop Drawings within four (4) weeks of receipt of executed Agreement.

- 1.5. Multiple deliveries, as necessary, per schedule.
  - 1.6. Joint sealants for the Work of this Scope, including sealants to dissimilar materials.
  - 1.7. Layout and fastening templates for in-wall blocking and backing by others. Identify exact locations, elevations, sections, details and attachments of the blocking requirements, as required. Any cost associated with blocking that was not coordinated properly by Subcontractor will be the responsibility of Subcontractor.
  - 1.8. Cutouts for any electrical or communication boxes.
  - 1.9. Cut sheets with cut out dimensions for recessed items.
  - 1.10. Clean and protect material and equipment of Scope of Work until accepted by Owner.
  - 1.11. Ensure materials, equipment, and accessories furnished comply with ADA requirements.
2. SPECIALTIES
- 2.1. Visual display units, dimensional letter signage, panel signage, plastic toilet compartments, wall and door protection, toilet bath and laundry accessories, fire protection specialties, and flagpoles as indicated.
3. FIBERGLASS REINFORCED PANELING
- 3.1. Fiberglass reinforced paneling as indicated.

**The following work is excluded:**

- 1. In-wall blocking and backing.
- 2. Painting, unless specifically included above.
- 3. Line voltage conduit, wire and back boxes, if any.

## SCOPE OF WORK 11.67.23 - SHOOTING RANGE EQUIPMENT

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**SHOOTING RANGE EQUIPMENT** - Including, but not limited to, Specification sections:

<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>11 6723</b>	<b>Shooting Range Equipment - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Miscellaneous clips, shims, fasteners, anchors, accessories, expansion anchors, and adhesives as required to complete Scope of Work.
- 1.2. Coordinate with others for in-wall requirements, overhead rough-in requirements, and structural supports.
- 1.3. Shop Drawings within four (4) weeks of receipt of executed Agreement.
- 1.4. Joint sealants where finished material of Scope of Work abuts adjacent finished materials.
- 1.5. Required commissioning and Owner training of all systems and equipment.
- 1.6. Operation and maintenance manuals.
- 1.7. Installation of shooting range equipment will occur in basement with stairwell and elevator access only.

#### 2. SHOOTING RANGE EQUIPMENT

- 2.1. Shooting range equipment as indicated.
- 2.2. Supports, anchors, and guides for the proper installation of the systems specified in the Scope of Work.
- 2.3. Granular rubber trap including, but not limited to, steel support stanchions, armored plating, granular infill, and spray applied fire retardant.
- 2.4. Ballistic protection including, but not limited to, containment ceiling, baffles, and redirective guards.
- 2.5. Noise abatement including, but not limited to, wood fiber cement board baffles and wool backing.
- 2.6. Target retrieval system including, but not limited to, target control, track system with support members, master computer and tablet controller.

2.7. Shooting stalls including, but not limited to, frame and panel inserts, shooting shelf, blast shield, shielding, and integral lighting.

**The following work is excluded:**

1. Air handling equipment and ductwork.
2. Signage, unless specifically noted.

## SCOPE OF WORK 12.20.00 - WINDOW SHADES

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**WINDOW SHADES** - Including, but not limited to, Specification Section(s):

<b>12 2400</b>	<b>Window Shades - Courthouse Remodel</b>
<b>12 2400</b>	<b>Window Shades - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Miscellaneous mounting hardware, clips, shims, fasteners, anchors, guides, penetrations, sleeves, and accessories as required to complete the Scope of Work.
- 1.2. Coordinate with others for location and installation of blocking.
- 1.3. Clean window shades following installation.
- 1.4. Field measurements: Include one mobilization to site for field measurements and one for installation.

2. BLINDS AND SHADES

- 2.1. Provide interior manual roller shades and associated hardware.
- 2.2. Plumb window shades with clearances to allow proper operation.
- 2.3. Adjust and balance window shades and operating mechanism for proper operation, free from binding or malfunction.
- 2.4. Manufacturer's cord cleats.
- 2.5. Retain intact safety tags and other manufacturer information with installed window treatments.

**The following work is excluded:**

1. In-wall blocking.

## SCOPE OF WORK 14.20.00 - ELEVATORS

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**ELEVATORS** - Including, but not limited to, Specification Section(s):

<b>07 8400</b>	<b>Firestopping - Public Safety Center (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>14 2400</b>	<b>Hydraulic Elevators - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Unload and stage equipment directly adjacent to elevator hoistway.
- 1.2. Barricades for protection of hoistway openings including installation, maintenance, and removal of the barricades. Contractor will provide initial barricades for protection of openings per Contractor's safety program. All remaining barricade requirements to protect the openings including modification, maintenance, and removal of the barricades are required in the Work of this Scope. This includes removable handrails, cabling, netting, or other protection.
- 1.3. Off-hour testing and inspections with Architect's designee and Authority Having Jurisdiction, including separate mobilizations if required.
- 1.4. No Work identified on the Shop Drawings as "by others" will be accepted unless those Work items are specifically noted as such in the Subcontract Documents.
- 1.5. Miscellaneous clips, shims, fasteners, anchors, and accessories as required to complete this Scope of Work.

#### 2. ELEVATORS

- 2.1. Elevators as indicated.
- 2.2. All support steel required for the elevator installation that is not specifically indicated in the Subcontract Documents as by others. (Reference Confirmation item no. 2)
- 2.3. Construct elevator cabs on lowest level.
- 2.4. Temporary hoistway platforms required to complete this Scope of Work.
- 2.5. Light, light switch, and ground-fault circuit interrupter (GFCI) outlet at the top and bottom of each car.
- 2.6. Wire from the elevator hoistway to the elevator panel and fire command panel locations. Wire in the traveling cable for cab wiring including, but not limited to,



security, speakers, card readers, telephone, closed circuit television (CCTV) and other wires necessary for a complete installation.

2.7. Final wiring terminations for power, security, and communications to the elevator equipment.

2.8. Elevator pit emergency stop switch.

2.9. Furnish concrete embeds for elevator guide beams.

2.10. Pit ladder for each shaft as required.

2.11. Cab finishes. CPT-3 cab flooring by others.

2.12. Firestopping putty packs behind elevator rough-in boxes as required in rated walls.

**The following work is excluded:**

1. Hoistway enclosure.
2. Sump pit and pump.
3. Pit lights and convenience outlet.
4. Machine room ventilation.
5. Steel hoistway beam.
6. Sill support angles and concrete recesses.
7. Grouting.
8. Setting concrete-embedded anchors or sleeves.
9. Concrete block-outs.
10. Painting unless specifically included above.
11. Smoke curtain.
12. Conduit raceway for security and telephone to the elevator machine room.
13. Line voltage conduit and wire including disconnects.
14. Cab flooring.

**Schedule/Quantity: The following items are requested at bid time and are for coordination only. They will not be included in the Agreement.**

1. Issuance of Submittals after execution of Subcontract: \_\_\_\_\_ ( ) weeks
2. Fabricate and deliver the elevators to the jobsite after receipt of approved or approved as noted Submittals and verification forms: \_\_\_\_\_ ( ) weeks
3. Operational elevator after receipt of confirmation of a clean/dry hoistway, clean/dry machine room, and temporary three (3)-phase power: \_\_\_\_\_ ( ) weeks

**Confirmations: The following items are requested at bid time and are for coordination**



**and bid award only. They will not be included in the Subcontract unless noted otherwise.**

1. Confirm agreement to published draft of the Subcontract in the Bid Documents including payment terms. \_\_\_\_\_ Signature confirmation of Bidder
  
2. Review the Structural Drawings and Specifications with regard to clear hoistway dimensions, cab overrun dimensions, divider and hoistway beam locations, and rail mounting applications (including specified substrate materials and floor-to-floor heights) and confirm that these requirements and conditions are acceptable for product proposed. Any additional support steel required, not sized and/or indicated in the Subcontract Documents, is to be provided in the base bid. See Scope #1.  
\_\_\_\_\_ Signature confirmation of Bidder
  
3. Review the Mechanical and Electrical Drawings and Specifications with regard to heat releases and power characteristics and confirm that these requirements are acceptable for the product proposed and meet elevator Code. \_\_\_\_\_  
Signature confirmation of Bidder

## SCOPE OF WORK 21.00.00 - FIRE PROTECTION

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**FIRE PROTECTION** - Including, but not limited to, Specification Section(s):

<b>02 4100</b>	<b>Demolition - Courthouse Remodel (As Applicable)</b>
<b>07 8400</b>	<b>Firestopping - Courthouse Remodel (As Applicable)</b>
<b>07 8400</b>	<b>Firestopping - Public Safety Center (As Applicable)</b>
<b>08 3100</b>	<b>Access Doors and Panels - Courthouse Remodel (As Applicable)</b>
<b>08 3100</b>	<b>Access Doors and Panels - Public Safety Center (As Applicable)</b>
<b>210500</b>	<b>Fire Protection General Provisions - Courthouse Remodel</b>
<b>210500</b>	<b>Fire Protection General Provisions - Public Safety Center</b>
<b>210510</b>	<b>Common Work Results For Fire Suppression - Courthouse Remodel</b>
<b>210510</b>	<b>Common Work Results For Fire Suppression - Public Safety Center</b>
<b>210513</b>	<b>Common Motor Requirements For Fire Suppression - Public Safety Center</b>
<b>211300</b>	<b>Fire-Suppression Sprinkler Systems - Courthouse Remodel</b>
<b>211300</b>	<b>Fire-Suppression Sprinkler Systems - Public Safety Center</b>
<b>213000</b>	<b>Fire Pumps - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Building Information Modeling (BIM) per the Front End.
- 1.2. Layout for equipment pads as required.
- 1.3. Layout for penetrations as required.
- 1.4. Layout of equipment that will require specific backing and framing.
- 1.5. Sealing, flashing, and escutcheons for roof, wall, and floor penetrations as required for this Scope of Work.
- 1.6. Firestopping for penetrations as required for this Scope of Work.
- 1.7. Equipment mounting brackets as required.
- 1.8. Cut and install ceiling tiles as required. Locate sprinkler heads in the center of ceiling

tile. Ceiling tiles furnished by others.

- 1.9. Coordinate with others as required for full integration and interface of the system(s) included in the Work.
- 1.10. Furnish access doors as required for this Scope of Work. Installation by others.
- 1.11. Core drilling including layout, structural x-rays, and temporary protection as required for this Scope of Work. Obtain written approval from Contractor before any core drilling.
- 1.12. Saw-cutting and patching as required for this Scope of Work.
- 1.13. Supervision at concrete pours involving penetrations and sleeves associated with this Scope of Work.
- 1.14. Expansion joints for piping as required.
- 1.15. Identification and tagging for piping and equipment.
- 1.16. Training personnel must be willing to appear on video tape.
- 1.17. Commissioning assistance.
- 1.18. Qualified personnel, including manufacturer technicians, to attend all commissioning meetings.
- 1.19. Qualified personnel, including manufacturer technicians, and all equipment to complete pre-functional and functional testing and trending as directed by the commissioning agent.

## 2. FIRE SPRINKLER SYSTEM

- 2.1. Delegated design. Includes flow tests to obtain hydraulic data needed for design of system.
- 2.2. Fire suppression system zoning is to be reviewed and approved by Contractor and Owner for alignment with construction activity sequencing and for ease of maintenance after Substantial Completion.
- 2.3. Pre-action control cabinet.
- 2.4. Fire pump and fire pump controller. Coordinate pit floor elevations with Contractor.
- 2.5. Jockey pump and jockey pump controller.
- 2.6. Start-up strainers for fire pumps. After final acceptance, replace with final strainer.
- 2.7. Flushing and sterilization of sprinkler water lines.
- 2.8. Motor starters for fire protection equipment.
- 2.9. Wire protection cages on all sprinkler heads in mechanical / equipment rooms, data and telecommunications rooms, workout rooms, storage rooms, near shelving, and other appropriate locations.
- 2.10. Fire sprinkler maintenance cabinet containing replacement sprinkler heads and a



sprinkler wrench.

- 2.11. Below-grade fire tank, tank air vent pipe, underground piping from fire tank through building foundation, underground concrete straddle block, connection to well pipe inside building, backflow prevention to well, motorized fill valve with isolation valves, fill piping, and all associated piping, connections, controllers, sensors, and other devices required for a fully functioning system. Includes excavation, sub-base and/or concrete pad, and backfill as required for tank and piping. Includes testing and flushing of underground piping.
- 2.12. Connection point from fire tank outlet to truck fill booster pump.
- 2.13. Selective demolition of existing fire suppression system(s) within renovation areas including, but not limited to, phased shutdown and draining, phased cutting & capping of existing piping, and salvage & storage of any existing piping or devices as required for re-installation. System shutdowns and tie-ins shall occur during off-hours.
- 2.14. Temporary adjustments of existing fire suppression system within renovations areas to properly provide active fire suppression system to any occupied areas while renovation activities occur.
- 2.15. Temporary standpipe(s) within renovation areas if required by Authorities Having Jurisdiction.
- 2.16. Extension of existing fire suppression system within renovation areas. Includes adjustments of existing system as needed to accommodate new architectural, structural, mechanical, electrical, and plumbing work.

**The following work is excluded:**

- 1. Concrete housekeeping pads.
- 2. Grouting.
- 3. Painting unless specifically included above.
- 4. Line voltage conduit and wire.
- 5. Fire extinguishers and fire extinguisher cabinets.
- 6. Comissioning.

**Schedule:**

- 1. Provide the number of weeks from notice to proceed to the submission of complete Fire Suppression drawings, hydraulic calculations, product data, and other associated submittals: \_\_\_\_\_ Weeks
- 2. Provide lead time for Fire Tank after approved submittals: \_\_\_\_\_ Weeks
- 3. List any other long-lead submittals and/or materials related to this scope of work:

## SCOPE OF WORK 22.23.00 - PLUMBING & HVAC

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**PLUMBING & HVAC** - Including, but not limited to, Specification Section(s):

<b>02 4100</b>	<b>Demolition - Courthouse Remodel (As Applicable)</b>
<b>07 8400</b>	<b>Firestopping - Courthouse Remodel (As Applicable)</b>
<b>07 8400</b>	<b>Firestopping - Public Safety Center (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>08 3100</b>	<b>Access Doors and Panels - Courthouse Remodel (As Applicable)</b>
<b>08 3100</b>	<b>Access Doors and Panels - Public Safety Center (As Applicable)</b>
<b>220500</b>	<b>Plumbing General Provisions - Courthouse Remodel</b>
<b>220500</b>	<b>Plumbing General Provisions - Public Safety Center</b>
<b>220513</b>	<b>Common Motor Requirements For Plumbing - Courthouse Remodel</b>
<b>220513</b>	<b>Common Motor Requirements For Plumbing - Public Safety Center</b>
<b>220517</b>	<b>Sleeves And Sleeve Seals For Plumbing Piping - Courthouse Remodel</b>
<b>220523</b>	<b>General-duty Valves For Plumbing Piping - Courthouse Remodel</b>
<b>220529</b>	<b>Hangers And Supports For Plumbing Piping And - Courthouse Remodel</b>
<b>220553</b>	<b>Identification For Plumbing Piping And Equipment - Courthouse Remodel</b>
<b>220553</b>	<b>Identification For Plumbing Piping And Equipment - Public Safety Center</b>
<b>220719</b>	<b>Plumbing Piping Insulation - Courthouse Remodel</b>
<b>220719</b>	<b>Plumbing Piping Insulation - Public Safety Center</b>
<b>221005</b>	<b>Plumbing Piping - Courthouse Remodel</b>
<b>221005</b>	<b>Plumbing Piping - Public Safety Center</b>
<b>221006</b>	<b>Plumbing Piping Specialties - Courthouse Remodel</b>
<b>221123</b>	<b>Domestic Water Pumps - Public Safety Center</b>
<b>221329</b>	<b>Sanitary Sewerage Pumps - Courthouse Remodel</b>
<b>221429</b>	<b>Sump Pumps - Public Safety Center</b>
<b>223000</b>	<b>Plumbing Equipment - Courthouse Remodel</b>
<b>223000</b>	<b>Plumbing Equipment - Public Safety Center</b>
<b>224000</b>	<b>Plumbing Fixtures - Courthouse Remodel</b>
<b>224000</b>	<b>Plumbing Fixtures - Public Safety Center</b>
<b>224500</b>	<b>Emergency Plumbing Fixtures - Public Safety Center</b>

<b>230500</b>	<b>Hvac General Provisions - Courthouse Remodel</b>
<b>230500</b>	<b>Hvac General Provisions - Public Safety Center</b>
<b>230513</b>	<b>Common Motor Requirements For Hvac Equipment - Courthouse Remodel</b>
<b>230513</b>	<b>Common Motor Requirements For Hvac Equipment - Public Safety Center</b>
<b>230517</b>	<b>Sleeves And Sleeve Seals For Hvac Piping - Courthouse Remodel</b>
<b>230519</b>	<b>Meters And Gauges For Hvac Piping - Courthouse Remodel</b>
<b>230529</b>	<b>Hangers And Supports For Hvac Piping And - Courthouse Remodel</b>
<b>230553</b>	<b>Identification For Hvac Piping And Equipment - Courthouse Remodel</b>
<b>230593</b>	<b>Testing, Adjusting, And Balancing For Hvac - Courthouse Remodel</b>
<b>230593</b>	<b>Testing, Adjusting, And Balancing For Hvac - Public Safety Center</b>
<b>230713</b>	<b>Duct Insulation - Courthouse Remodel</b>
<b>230713</b>	<b>Duct Insulation - Public Safety Center</b>
<b>230716</b>	<b>Hvac Equipment Insulation - Courthouse Remodel</b>
<b>230716</b>	<b>Hvac Equipment Insulation - Public Safety Center</b>
<b>230719</b>	<b>Hvac Piping Insulation - Courthouse Remodel</b>
<b>230719</b>	<b>Hvac Piping Insulation - Public Safety Center</b>
<b>230913</b>	<b>Instrumentation And Control Devices For Hvac - Courthouse Remodel</b>
<b>230913</b>	<b>Instrumentation And Control Devices For Hvac - Public Safety Center</b>
<b>230923</b>	<b>Direct-digital Control System For Hvac - Courthouse Remodel</b>
<b>230923</b>	<b>Direct-digital Control System For Hvac - Public Safety Center</b>
<b>230934</b>	<b>Variable-frequency Motor Controllers For Hvac - Courthouse Remodel</b>
<b>230934</b>	<b>Variable-frequency Motor Controllers For Hvac - Public Safety Center</b>
<b>230993</b>	<b>Sequence Of Operations For Hvac Controls - Courthouse Remodel</b>
<b>230993</b>	<b>Sequence Of Operations For Hvac Controls - Public Safety Center</b>
<b>232113</b>	<b>Hydronic Piping - Courthouse Remodel</b>
<b>232113.33</b>	<b>Ground-loop Heat-pump Piping - Courthouse Remodel</b>
<b>232114</b>	<b>Hydronic Specialties - Courthouse Remodel</b>
<b>232123</b>	<b>Hydronic Pumps - Courthouse Remodel</b>
<b>233100</b>	<b>Hvac Ducts And Casings - Courthouse Remodel</b>
<b>233100</b>	<b>Hvac Ducts And Casings - Public Safety Center</b>
<b>233300</b>	<b>Air Duct Accessories - Courthouse Remodel</b>
<b>233300</b>	<b>Air Duct Accessories - Public Safety Center</b>
<b>233319</b>	<b>Duct Silencers - Courthouse Remodel</b>
<b>233416</b>	<b>Centrifugal Hvac Fans - Courthouse Remodel</b>
<b>233416</b>	<b>Centrifugal Hvac Fans - Public Safety Center</b>
<b>233423</b>	<b>Hvac Power Ventilators - Courthouse Remodel</b>
<b>233516</b>	<b>Engine Exhaust Systems - Public Safety Center</b>
<b>233600</b>	<b>Air Terminal Units - Courthouse Remodel</b>
<b>233600</b>	<b>Air Terminal Units - Public Safety Center</b>

<b>233700</b>	<b>Air Outlets And Inlets - Courthouse Remodel</b>
<b>233700</b>	<b>Air Outlets And Inlets - Public Safety Center</b>
<b>235216</b>	<b>Condensing Boilers - Public Safety Center</b>
<b>235400</b>	<b>Furnaces - Public Safety Center</b>
<b>235533</b>	<b>Fuel-fired Unit Heaters - Public Safety Center</b>
<b>235700</b>	<b>Heat Exchangers For Hvac - Public Safety Center</b>
<b>236313</b>	<b>Air Cooled Refrigerant Condensers - Public Safety Center</b>
<b>237223</b>	<b>Packaged Air-to-air Energy Recovery Units - Courthouse Remodel</b>
<b>237223</b>	<b>Packaged Air-to-air Energy Recovery Units - Public Safety Center</b>
<b>237313</b>	<b>Modular Indoor Central-station Air-handling Unit - Public Safety Center</b>
<b>237413</b>	<b>Packaged Outdoor Central-station Air-handling - Public Safety Center</b>
<b>237416</b>	<b>Packaged Rooftop Air-conditioning Units - Public Safety Center</b>
<b>238149</b>	<b>Ground-source Unitary Heat Pumps - Courthouse Remodel</b>
<b>238200</b>	<b>Convection Heating And Cooling Units - Courthouse Remodel</b>
<b>238216</b>	<b>Air Coils - Public Safety Center</b>
<b>238241</b>	<b>Water-to-water Heat Pumps - Courthouse Remodel</b>
<b>238300</b>	<b>Radiant Heating And Cooling Units - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Furnish access doors as required for this Scope of Work. Installation by others.
- 1.2. Core drilling including layout, structural x-rays, and temporary protection as required for this Scope of Work. Obtain Contractor's written approval before any core drilling.
- 1.3. Layout for equipment pads and penetrations as required.
- 1.4. Saw-cutting and patching as required.
- 1.5. Supervision at concrete pours involving penetrations and sleeves associated with this Scope of Work.
- 1.6. Sealing, flashing, and escutcheons for roof, wall, and floor penetrations as required for this Scope of Work.
- 1.7. Firestopping for penetrations as required for this Scope of Work.
- 1.8. Anchorage calculations for equipment, piping, and ductwork as required for this Scope of Work.
- 1.9. Building Information Modeling (BIM) per Front End.

- 1.10. Model equipment and connections, furnished by others, as required for this Scope of Work as part of the 3D BIM coordination work.
  - 1.11. Selective demolition of existing plumbing, HVAC, and controls system(s) within renovation areas including, but not limited to, phased shutdown and draining, cutting & capping of existing piping and ductwork, and salvage & storage of any existing piping, ductwork, fixtures, and/or devices as required for re-installation. System shutdowns and tie-ins shall occur during off-hours.
  - 1.12. Temporary adjustments of existing plumbing, HVAC, and controls system(s) within renovation areas to properly provide active systems to any occupied areas while renovation activities occur.
  - 1.13. Extension of existing plumbing, HVAC, and controls system(s) within renovation areas. Includes adjustments of existing systems as needed to accommodate new architectural, structural, and associated MEPFS work.
  - 1.14. Review Shop Drawings prior to Work being put in place and identify where additional balancing devices will be required to complete Scope of Work.
  - 1.15. Preconstruction site inspection to identify existing to remain systems. Identify the extent that existing systems are affected by new Work and provide personnel to successfully test, adjust, and balance existing and new as a single system.
  - 1.16. Construction site observation prior to starting Work and report deficiencies that would delay meeting Project schedule.
  - 1.17. Deficiency reports updated and submitted weekly.
  - 1.18. After testing and balancing are complete, operate each system and randomly check measurements to verify each system is operating according to the final test and balance readings documented in the final report.
  - 1.19. Permanently mark balancing devices to document balanced position.
  - 1.20. Seal all insulation and jacketing that has been affected during the TAB (Testing, Adjusting and Balancing) process.
  - 1.21. Temporary water to masonry mixing area.
  - 1.22. Separate crew(s) dedicated to build-out of Mechanical Rooms while in-wall and overhead rough-in activities occur.
2. SITWORK AND UNDERGROUND
- 2.1. Repair of asphalt or concrete surfaces disturbed by the Work.
  - 2.2. Unclassified excavating, trenching, shoring, bracing, dewatering, backfilling to grade, compacting, and patching.
  - 2.3. Onsite disposal of spoils. Location to be determined by the Contractor.
  - 2.4. Engineered trenching shoring system for excavation where sloping is not feasible.
  - 2.5. Traffic control devices, flagmen, and anchored steel plates at roadways.

- 2.6. Locates of existing utilities on the site prior to the excavation portion of the work.
- 2.7. Hand dig in critical utility areas.
- 2.8. Locates of existing utilities on the site prior to the excavation portion of the Work.

### 3. GENERAL PLUMBING PIPING

- 3.1. Final tie-in of domestic, sanitary, and storm piping at point of termination five (5) feet outside the building footprint.
- 3.2. Storm drain system including piping, hangers, fittings, and drain leveling provisions.
- 3.3. Natural gas fuel piping system, including piping, hangers, valves, fittings, system regulators, and relief piping. Connect to main regulator / gas meter provided by others.
- 3.4. Compressed air piping system, including piping, hangers, valves, fittings, system regulators, and relief piping.
- 3.5. Plugs, caps, tees, and valves for tie-ins to existing systems.
- 3.6. Thrust blocks, concrete, anchors, and guides for underground piping.
- 3.7. Furnish heat trace system and controllers for plumbing piping and equipment; installation by others.
- 3.8. Insulation for plumbing piping and equipment.

### 4. GENERAL PLUMBING EQUIPMENT AND FIXTURES

- 4.1. Install water meter furnished by others.
- 4.2. Infrared faucet power supply box and wiring harness for connection by others.
- 4.3. Caulking for plumbing fixtures and shower units.
- 4.4. Escutcheons sealed to the wall and around piping, including under-counter piping.

### 5. START-UP AND TESTING

- 5.1. Chemicals and temporary material and equipment for flushing and passivation of piping systems. Flushing through equipment coils is not allowed.
- 5.2. Temporary material and equipment for pressure testing of piping systems. Pressure testing through equipment coils is not allowed.
- 5.3. Start-up screens for pumps during construction. Replace with final strainer prior to TAB and commissioning.
- 5.4. Vacuum and wipe clean HVAC equipment interiors prior to startup and again following commissioning.
- 5.5. Temporary material and equipment required for leakage testing of ductwork systems.
- 5.6. Quality control documentation for mechanical systems including factory testing and factory certified start-up.

## 6. COMMISSIONING

- 6.1. Commissioning assistance for 3rd Party Commissioning Agent.
- 6.2. Qualified personnel, including manufacturer technicians, to attend all commissioning meetings.
- 6.3. Qualified personnel, including manufacturer technicians, and equipment to complete pre-functional and functional testing and trending as directed by the 3rd Party Commissioning Agent.

## 7. SHEETMETAL

- 7.1. Mechanical louvers including flashing and caulking.
- 7.2. Equipment curbs, including leveling provisions, for roof-mounted equipment.
- 7.3. Fire, fire-smoke, smoke dampers, and associated actuators.
- 7.4. Install duct smoke and heat detectors furnished by others.
- 7.5. Boiler and water heater flue piping including breaching and flashing materials.

## 8. MECHANICAL PIPING

- 8.1. Condensate drainage system.
- 8.2. Piping systems shall not be installed above electrical equipment. If alternative routing is not feasible, provide panning and drain piping for systems routed above electrical equipment.
- 8.3. Thrust blocks, anchors, and guides.
- 8.4. Furnish heat trace system and controllers for HVAC piping and equipment. Installation by others.

## 9. GENERAL MECHANICAL EQUIPMENT

- 9.1. Chemical feed systems including piping, valves, chemicals, tanks, metering pumps, calibration columns, and controllers. System shall be filled with chemicals as required by Project Schedule for Start-Up, Test & Balance, and Commissioning activities that occur prior Substantial Completion.

## 10. CONTROLS AND MONITORING

- 10.1. Raceway, instrumentation, wiring and terminations for control and monitoring systems.
- 10.2. Raceway, line voltage wiring, and terminations for control panel and device power. Final termination at panelboard by others.
- 10.3. Pneumatic controls tubing and root valve required for controllers, actuators, and instrumentation.
- 10.4. Programming of variable frequency drives (VFDs) and equipment controllers including communication and operation settings.
- 10.5. Factory mounted controllers, instrumentation, and programming as required to meet the design sequence of operations for all packaged HVAC systems.

- 10.6. Network cards and gateways to integrate packaged systems with control and monitoring system.
- 10.7. Software, hardware, and labor as required for successful completion of test, adjust, and balance (TAB) scope.
- 10.8. Interlock and control wiring and raceways as required by packaged equipment manufacturer to operate equipment independent of the building controls scope of work.
11. TESTING, ADJUSTING, AND BALANCING (TAB)
  - 11.1. Independent testing, adjusting, and balancing.
  - 11.2. Pressure and temperature ports in locations required to facilitate successful TAB.
  - 11.3. Assist TAB provider during operation and testing of equipment.
  - 11.4. Operation of fire-smoke and smoke dampers, in accordance with manufacturer's recommendations, to allow for startup, temporary conditioning, and TAB. Reset fire-smoke and smoke dampers as soon as fire alarm system can control dampers.
  - 11.5. Seal of insulation and jacketing that has been affected during the TAB process.
  - 11.6. Flush coils and strainers as required for successful TAB completion.
  - 11.7. Weekly updates to TAB deficiency list.
12. Testing, Adjusting, and Balancing (TAB) – Air Systems
  - 12.1. TAB air moving systems including but not limited to package or standalone supply fans, exhaust fans, relief fans, and purge fans.
  - 12.2. Adjust systems and equipment to specified installation tolerances.
  - 12.3. Optimum static pressure control point at the most demanding location and document on final report. For systems designed with diversity, document how the diversity was simulated when optimizing the duct static pressure setpoint.
  - 12.4. Verify Digital Direct Controlled (DDC) air terminal unit settings by means of a laptop computer with integrated software, compatible with DDC controller furnished by the controls subcontractor. Initial airflow settings of DDC controller air terminal units and calibration of the variable air volume (VAV) to be performed through the DDC system.
  - 12.5. Adjust Lab hoods, air handling and distribution systems to provide design supply, return and exhaust air quantities.
  - 12.6. Schedule and assist in final adjustment and testing of smoke purge system with Authority Having Jurisdiction.
  - 12.7. Document correction (“K”) factor settings for all flow devices on final report including but not limited to, terminal units and air flow stations.
13. Testing, Adjusting, and Balancing (TAB) – Water Systems
  - 13.1. TAB fluid distribution systems to design flow quantities by means of balancing

- valves and fittings. Do not use shut-off valves for balancing.
- 13.2. Adjust systems to specified pressure drops and flows through heat transfer elements prior to thermal testing.
  - 13.3. Pressure drop reading on all auto flow devices and include in final report.
  - 13.4. Coil pressure drop measurements as indicated.
  - 13.5. Optimum differential pressure control point at the most demanding location and document on final report. For systems designed with diversity, document how the diversity was simulated when optimizing the duct static pressure set point.
14. Troubleshooting
- 14.1. Establish optimal fan performance and submit documentation.
  - 14.2. Data acquisition, including duct profiles, air handling unit profiles, and terminal unit inlet static pressure, and submit for resolution of design and installation issues.
  - 14.3. Sizing for necessary changes to sheaves, belts, and dampers required for correct balancing of the systems.
  - 14.4. Retest deficiencies from the initial TAB as needed to provide a completely balanced HVAC system and report at Project completion.
15. Commissioning Assistance
- 15.1. Coordinate and cooperate with third party Commissioning Agent(s) and/or consultant(s).
  - 15.2. Qualified personnel to attend all commissioning meetings.
  - 15.3. Complete pre-functional and functional testing and trending as required by the Commissioning plan.
  - 15.4. TAB verification as directed by the Commissioning Agent and Subcontract Documents.

**The following work is excluded:**

1. Concrete housekeeping pads.
2. Grouting.
3. Painting unless specifically included above.
4. Structural steel supports unless specifically included above.
5. Architectural louvers.
6. Foundation drainage system.
7. Furnish of water meter.
8. Furnish and install of gas meter.
9. Gas piping and specialties for temporary heaters.



**Schedule:**

1. Provide the number of weeks from notice to proceed to submission of complete Plumbing shop drawings, product data, and other associated submittals: \_\_\_\_\_ Weeks.
2. Provide the number of weeks from notice to proceed to submission of complete HVAC shop drawings, product data, and other associated submittals: \_\_\_\_\_ Weeks.
3. Provide the number of weeks from notice to proceed to submission of complete Controls shop drawings, product data, and other associated submittals: \_\_\_\_\_ Weeks.
4. Installation duration of Plumbing Undergrounds: \_\_\_\_\_ working days.
5. List all long-lead submittals and/or materials related to this scope of work.
6. Total man-hours estimated for Plumbing & Piping in-wall and overhead Work: \_\_\_\_\_ man-hours.
7. Total man-hours estimated for Plumbing & Piping build-out of Mechanical Rooms: \_\_\_\_\_ man-hours.
8. Total man-hours estimated for Sheetmetal in-wall and overhead Work: \_\_\_\_\_ man-hours.
9. Total man-hours estimated for Sheetmetal build-out of Mechanical Rooms: \_\_\_\_\_ man-hours.
10. Total man-hours estimated for Controls in-wall and overhead Work: \_\_\_\_\_ man-hours.
11. Total man-hours estimated for Controls build-out of Mechanical Rooms: \_\_\_\_\_ man-hours.

## **SCOPE OF WORK 26.27.28 - ELECTRICAL**

### **SCOPE OF WORK**

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**ELECTRICAL** - Including, but not limited to, Specification Section(s):

<b>07 8400</b>	<b>Firestopping - Courthouse Remodel (As Applicable)</b>
<b>07 8400</b>	<b>Firestopping - Public Safety Center (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Courthouse Remodel (As Applicable)</b>
<b>07 9200</b>	<b>Joint Sealants - Public Safety Center (As Applicable)</b>
<b>26 0500</b>	<b>Common Work Results For Electrical - Courthouse Remodel</b>
<b>26 0500</b>	<b>Common Work Results For Electrical - Public Safety Center</b>
<b>26 0505</b>	<b>Temporary Facilities &amp; Controls - Courthouse Remodel</b>
<b>26 0510</b>	<b>Remodeling Work - Courthouse Remodel</b>
<b>26 0519</b>	<b>Conductors - Courthouse Remodel</b>
<b>26 0519</b>	<b>Conductors - Public Safety Center</b>
<b>26 0526</b>	<b>Grounding And Bonding For Electrical Systems - Courthouse Remodel</b>
<b>26 0526</b>	<b>Grounding And Bonding For Electrical Systems - Public Safety Center</b>
<b>26 0533</b>	<b>Raceways - Courthouse Remodel</b>
<b>26 0533</b>	<b>Raceways - Public Safety Center</b>
<b>26 0534</b>	<b>Outlet, Pull And Junction Boxes - Courthouse Remodel</b>
<b>26 0534</b>	<b>Outlet, Pull And Junction Boxes - Public Safety Center</b>
<b>26 0536</b>	<b>Cable Tray - Courthouse Remodel</b>
<b>26 0536</b>	<b>Cable Tray - Public Safety Center</b>
<b>26 0540</b>	<b>Floor Boxes - Courthouse Remodel</b>
<b>26 0540</b>	<b>Floor Boxes - Public Safety Center</b>
<b>26 0553</b>	<b>Identification - Courthouse Remodel</b>
<b>26 0553</b>	<b>Identification - Public Safety Center</b>
<b>26 0573</b>	<b>Power System Study - Public Safety Center</b>
<b>26 0583</b>	<b>Connections To Equipment - Courthouse Remodel</b>
<b>26 0583</b>	<b>Connections To Equipment - Public Safety Center</b>
<b>26 0943</b>	<b>Network Lighting Control System - Courthouse Remodel</b>
<b>26 0943</b>	<b>Network Lighting Control System - Public Safety Center</b>
<b>26 2200</b>	<b>Transformers - Courthouse Remodel</b>
<b>26 2200</b>	<b>Transformers - Public Safety Center</b>
<b>26 2413</b>	<b>Switchboards - Public Safety Center</b>
<b>26 2416</b>	<b>Panelboards - Courthouse Remodel</b>
<b>26 2416</b>	<b>Panelboards - Public Safety Center</b>

- 26 2713 Electric Service - Public Safety Center**
- 26 2726 Wiring Devices And Device Plates - Courthouse Remodel**
- 26 2726 Wiring Devices And Device Plates - Public Safety Center**
- 26 2813 Fuses - Courthouse Remodel**
- 26 2813 Fuses - Public Safety Center**
- 26 2816 Enclosed Switches & Curcuit Breakers - Public Safety Center**
- 26 2816 Safety Switches - Courthouse Remodel**
- 26 2822 Elevator Wiring - Public Safety Center**
- 26 2913 Motor Starters - Courthouse Remodel**
- 26 2913 Motor Starters - Public Safety Center**
- 26 3213 Generator Set - Public Safety Center**
- 26 3353 Uninterruptible Power Supply System - Public Safety Center**
- 26 3600 Transfer Switches - Public Safety Center**
- 26 4313 Surge Protective Devices - Public Safety Center**
- 26 5100 Luminaires - Courthouse Remodel**
- 26 5100 Luminaires - Public Safety Center**
- 26 6510 Overhead Door Wiring - Public Safety Center**
- 27 0500 Division General Provisions - Courthouse Remodel**
- 27 0500 Division General Provisions - Public Safety Center**
- 27 0528 Network Systems Rough-in - Courthouse Remodel**
- 27 0528 Network Systems Rough-in - Public Safety Center**
- 27 1513 Network Cabling - Courthouse Remodel**
- 27 1513 Network Cabling - Public Safety Center**
- 27 1523 Fiber Optic Cabling - Public Safety Center**
- 27 1533 Tv Signal Cabling - Public Safety Center**
- 27 4116 Meeting Room Multi-media System - Courthouse Remodel**
- 27 4116 Meeting Room Multi-media System - Public Safety Center**
- 28 0500 Division General Provisions - Courthouse Remodel**
- 28 0500 Division General Provisions - Public Safety Center**
- 28 1000 Controlled Access System - Courthouse Remodel**
- 28 1000 Controlled Access System - Public Safety Center**
- 28 4611 Fire Alarm And Detection - Courthouse Remodel**
- 28 4611 Fire Alarm And Detection - Public Safety Center**
- 28 4913 Rescue Assistance System - Public Safety Center**
- Div 00 Procurement and Contracting Requirements - Courthouse Remodel**
- Div 00 Procurement and Contracting Requirements - Public Safety Center**
- Div 01 General Requirements - Courthouse Remodel**
- Div 01 General Requirements - Public Safety Center**

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Core drilling including layout, structural x-rays, and temporary protection as required. Obtain Contractor's written approval before any core drilling.
  - 1.2. Layout for equipment pads and penetrations as required.
  - 1.3. Saw-cutting and patching as required.
  - 1.4. Supervision at concrete pours involving penetrations and sleeves associated with this Scope of Work.
  - 1.5. Sealing, flashing, and escutcheons for roof, wall, and floor penetrations as required.
  - 1.6. Building Information Modeling (BIM) per Front End.
  - 1.7. Temporary power and lighting per Front End.
  - 1.8. Temporary fire alarm system per Front End.
  - 1.9. Develop and manage a site specific Lock-out Tag-out (LOTO) Plan.
  - 1.10. Clean interior and exterior of equipment furnished and/or installed as part of this Scope of Work prior to first energization and again prior to Substantial Completion.
  - 1.11. Layout of equipment that will require specific backing and framing.
  - 1.12. Equipment mounting brackets as required for this Scope of Work.
  - 1.13. Cut and install ceiling tiles that require ceiling mounted devices. Ceiling tiles furnished by others.
  - 1.14. Protect completed cabling terminations with preventive debris covering.
  - 1.15. Coordinate with others as required for full integration and interface of the system(s) included in the Work.
  - 1.16. Coordinate with others as required for power, pathway, conduit, sleeve, and backbox needs. Perform inspections to confirm rough-in prior to closing ceilings and walls.
  - 1.17. Equipment cabinets, racks, and Power Distribution Unit (PDU) plug strips.
  - 1.18. Patch panels and patch cables as required to support all system cabling.
  - 1.19. Cable management at the racks.
  - 1.20. Grounding from nearest telecom ground bus bar to the racks.
  - 1.21. Layout for penetrations as required for this Scope of Work.
  - 1.22. Layout of equipment that will require specific backing and framing.
2. SITWORK AND UNDERGROUND
- 2.1. Repair of asphalt or concrete surfaces disturbed by the Work.
  - 2.2. Unclassified excavating, trenching, shoring, bracing, dewatering, backfilling to grade, compacting, and patching.
  - 2.3. Onsite disposal of spoils. Location to be determined by the Contractor.

- 2.4. Engineered trenching shoring system for excavation where sloping is not feasible.
- 2.5. Locates of existing utilities on the site prior to the start of construction.
- 2.6. Hand dig in critical utility areas.
- 2.7. Electrical manholes and waterproofing.
- 2.8. Provide raceway size and quantity for transformer and CT cabinet as required by utility provider. Include all required spare raceways for future use as required by the utility.
- 2.9. Concrete light pole bases complete, including concrete, rebar, anchor bolts and backfill after concrete forms are removed.

### 3. ELECTRICAL

- 3.1. Lighting supports as required.
- 3.2. Raceway between the elevator hoist ways and the fire command center.
- 3.3. Disconnects, starters, and variable frequency drives (VFDs) that are not identified as provided by others.
- 3.4. Termination of power circuits for building control panels and devices onto switchboards or panelboards provided within this Scope of Work. Conduit, wire, and terminations at the control panel and devices for these circuits provided by others.
- 3.5. Power to auto door operators with final connection to be made by others. Wall bases, conduit, and wiring (including any low voltage) for actuators is provided by others. Final wiring connections to actuator and operator provided by others.
- 3.6. Diesel fuel required for testing of the emergency generator. Completely fill the fuel day tank and remote storage tank with diesel fuel upon initial installation, again at the completion of final testing, and prior to Substantial Completion.
- 3.7. Arc flash labels and Arc Flash study.
- 3.8. Field adjustment of breaker and relay settings. Breaker setting values furnished by others.
- 3.9. Coordinate relocation of existing transformer with utility provider.
- 3.10. Cutting of drywall, CMU and precast for conduit penetrations.
- 3.11. Power shall be installed within new CMU walls. Surface mounted conduit will not be accepted. Coordinate rough in with CMU subcontractor.
- 3.12. Wiring to internal millwork devices. Coordinate cutouts in casework with Finish Carpentry subcontractor.
- 3.13. Verify final TV/Monitor locations with Owner and Contractor prior to rough-in of electrical services for units. Reference Architectural Plans, Elevations, and Keynotes for wall mounted and ceiling mounted TV/Monitor locations.
- 3.14. Coordinate requirements and locations for conduit placed in precast wall

assemblies.

3.15. Raceways, boxes, backboxes and rough in for all division 27 items including network cabling, fiber optic cabling, multi-media systems, and A/V systems.

3.16. Raceways, boxes and rough in for all division 28 items including controlled access systems, surveillance systems and rescue assistance systems.

#### 4. FIRE ALARM

4.1. Temporary fire alarm as required by the Front End. The courthouse project will include a phased turnover. This Scope of Work shall maintain a functional fire alarm system for each area of the phased turn over. Refer to the Project schedule and logistics plan for specific turnovers dates.

4.2. Power circuits for fire alarm equipment and devices. Terminations on fire alarm equipment and devices by others.

4.3. Raceways and supports for fire alarm system.

4.4. Control of fire/smoke and smoke dampers. Fire/smoke and smoke dampers provided by others.

4.5. Furnish duct detectors to be installed by others.

4.6. Fire-rated door hold-open release devices and contacts and wiring.

4.7. Complete fully functioning fire alarm system.

4.8. Temporary fire alarm per Front End.

4.9. Protect fire alarm devices, including smoke detectors, from dust and debris, as directed by Contractor.

4.10. Temporary wire for heat and/or smoke detection for temporary use of HVAC equipment. Temporary HVAC equipment detection device by others.

4.11. Wiring, terminations, and control of fire/smoke and smoke dampers. Fire/smoke and smoke dampers by others.

4.12. Furnish duct detectors. Installation by others.

4.13. Integrate Post Indicator Valve (PIV) with fire alarm system.

4.14. Exterior fire sprinkler bell.

4.15. Temporary wire for heat/smoke detection for temporary use of HVAC equipment. Temporary HVAC equipment detection device by others.

4.16. Demolition of existing fire alarm system. Maintain existing system until new is operational. Coordinate transition of existing to new.

#### 5. SECURITY SYSTEM

5.1. Provide controlled access rough-ins for card access per 6/E403 at Public Safety Center and 5/E403 at Courthouse.

- 5.2. Provide surveillance camera rough-ins per 5/E403 at Public Safety Center and 3/E403 at Courthouse.
- 5.3. Raceways through door frame and door.
- 5.4. Door position switches, including knockouts.
- 5.5. Provide rough-in for panic buttons on the underside of desk cabinetry as indicated.
- 5.6. Provide complete rescue assistance system.
- 5.7. Installation of Owner furnished surveillance equipment as indicated.
6. COMMISSIONING
  - 6.1. Commissioning assistance.
  - 6.2. Qualified personnel, including manufacturer technicians, to attend all commissioning meetings.
  - 6.3. Qualified personnel, including manufacturer technicians, and equipment to complete pre-functional and functional testing and trending as directed by the commissioning agent.
  - 6.4. Temporary load banks including temporary control power and labor for monitoring and operating temporary load banks during testing.
7. COMMUNICATION SYSTEMS
  - 7.1. Provide communications (structured cabling) system as indicated. Coordinate with work furnished and installed by others.
  - 7.2. Install wireless access points. Furnished by others.
  - 7.3. Provide antenna support for EMS radio system per 1/E403.
8. RACEWAYS
  - 8.1. J-hooks for cable routing where cabling travels outside of conduits and cable tray.
  - 8.2. Furnish all specialty back-boxes for installation by others.
  - 8.3. Coordinate with others as required for power, pathway, conduit, sleeve, and backbox needs.
  - 8.4. Clear raceways (provided by others) of obstructions prior to cable installation and protect after completion of installation.
  - 8.5. Coordinate with other as required for power, pathway, conduit, sleeve, and backbox needs.
  - 8.6. Provide raceways for network systems as shown.
9. AUDIO-VISUAL (AV) SYSTEM
  - 9.1. Provide Audio-Visual (AV) system as indicated at both Courthouse and Public Safety Center.
  - 9.2. Provide suspended ceiling projector plate per Public Safety Center Keynote S24.

9.3. Provide complete meeting room multi-media system. Coordinate with Owner furnished equipment.

9.4. Provide TV signal cabling system as shown.

#### 10. DEMOLITION

10.1. Make-safe, disconnect and drop-to-floor of electrical systems at Courthouse. Haul off of materials by selective demolition subcontractor. Electrical contractor shall mobilize at the same time (or before) as selective demolition subcontractor and complete the Work while selective demolition subcontractor is onsite. Electrical materials and equipment not demolished while selective demolition subcontractor is onsite, shall be hauled off and disposed by this Scope of Work. Refer to Courthouse Project schedule for selective demolition timelines.

10.2. Disconnect all mechanical equipment scheduled to be removed. Coordinate with mechanical subcontractor.

10.3. Remove all temporary services provided as part of this Scope of Work.

10.4. Salvage materials or equipment scheduled to remain. Haul salvaged items to location determined by the Contractor.

10.5. Relocate existing lights, equipment or devices. Provide new raceway and wire for relocated items.

#### 11. ALTERNATES

11.1. Courthouse: Bid Alternate No. 1: Second floor in its entirety.

11.2. Courthouse: Bid Alternate No. 2: Ballistic Rated Service Window.

11.3. Courthouse: Bid Alternate No. 3: VAVs

11.4. Public Safety Center: Bid Alternate No. 1: Site Lighting.

11.5. Public Safety Center: Bid Alternate No. 2: Radiant Floor Heating.

11.6. Public Safety Center: Bid Alternate No. 6: Shooting Range Fit-Out

11.7. Public Safety Center: Bid Alternate No. 8: Exterior Accent Lighting.

11.8. Public Safety Center: Bid Alternate No. 9: Buried Propane Tank.

11.9. Public Safety Center: Bid Alternate No. 10: Monument Sign.

#### **The following work is excluded:**

1. Concrete housekeeping pads.
2. Grouting.
3. Painting unless specifically included above.
4. Structural steel supports unless specifically included above.
5. Temperature control wiring.



6. Access doors.

7. Grout.

8. Access doors.

## SCOPE OF WORK 31.20.01 - EARTHWORK AND STRUCTURAL EXCAVATION

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**EARTHWORK AND STRUCTURAL EXCAVATION** - Including, but not limited to, Specification Section(s):

<b>31 1000</b>	<b>Site Clearing - Courthouse Remodel</b>
<b>31 1000</b>	<b>Site Clearing - Public Safety Center</b>
<b>31 2200</b>	<b>Grading - Courthouse Remodel</b>
<b>31 2200</b>	<b>Grading - Public Safety Center</b>
<b>31 2313</b>	<b>Subgrade Preparation - Public Safety Center</b>
<b>31 2316</b>	<b>Building Excavation - Courthouse Remodel</b>
<b>31 2316</b>	<b>Building Excavation - Public Safety Center</b>
<b>31 2316</b>	<b>Excavation - Courthouse Remodel</b>
<b>31 2316</b>	<b>Excavation - Public Safety Center</b>
<b>31 2323</b>	<b>Building Fill - Courthouse Remodel</b>
<b>31 2323</b>	<b>Building Fill - Public Safety Center</b>
<b>31 2323</b>	<b>Fill - Courthouse Remodel</b>
<b>31 2323</b>	<b>Fill - Public Safety Center</b>
<b>32 1123</b>	<b>Aggregate Base Course - Courthouse Remodel</b>
<b>32 1123</b>	<b>Aggregate Base Course - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

1. GENERAL

- 1.1. Excavation is classified.
  - 1.1.1. Rock excavation per unit price if required.
- 1.2. Locate existing utilities on the jobsite prior to the start of construction and maintain those utility markers while working on the site. Protect from damage existing utilities scheduled to remain and make repairs as needed if damage should occur. Submit as-built drawing of existing conditions for coordination and record purposes.
- 1.3. Stockpile and store materials for reuse onsite at a location directed by Contractor.
- 1.4. Spoils shall be distributed on site as directed including, but not limited to, spoils resulting from soil correction at building pad.

- 1.4.1. Remove, haul-off, and properly dispose of any debris or spoil material not suitable for distribution onsite on a daily basis.
  - 1.5. Water as needed to obtain moisture content of soils as referenced in soils report, including, but not limited to, temporary taps, meters, and associated usage and other fees for construction water required to perform the Work.
  - 1.6. Bench, layback, or shore excavations as required to perform the Work.
  - 1.7. Proof-roll existing and newly prepared earthwork conditions for visual review by testing agency and/or soils engineer in order to determine the suitability of in place soils to receive additional fill work.
    - 1.7.1. Coordinate all proof-rolling with Contractor.
  - 1.8. Place fill material under the direct supervision of the assigned testing agency and/or soils engineer.
    - 1.8.1. Coordinate all testing with Contractor.
  - 1.9. Remove and replace soils determined to be unsuitable by the soils engineer/testing agency.
    - 1.9.1. All excavation, site preparation, backfill, surface drainage, and other Work per recommendation of Public Safety Center geotechnical report and Courthouse geotechnical report as corresponding to each site.
  - 1.10. Barricade and flag excavations as required.
  - 1.11. Layout and survey work required for the Work from benchmarks and control points provided by others. Maintain benchmarks and control points throughout construction.
2. SITE MAINTENANCE
- 2.1. Pumping, dewatering, and sediment control required to prevent standing water associated with either ground water or rainfall at locations where temporary excavations are unable to be gravity drained throughout every phase of the Work.
  - 2.2. Temporary grading to maintain positive drainage of all areas throughout performance of the Work as required to prevent ponding water and pooling near the building structure(s).
  - 2.3. Protect existing landscaping, groundcover, hardscape, and other components scheduled to remain. Where existing conditions cannot be protected, repair to original condition after completion of the Work.
  - 2.4. Temporary seeding to areas disturbed during construction.
  - 2.5. Erosion control systems (including maintenance and removal when directed by Contractor) throughout the Project duration including after completion of the initial mass excavation Work. Provide regular site investigations initiated by rain fall events and continued maintenance throughout the entire Project duration. Submit documentation required to assist with obtaining the erosion control sediment plan and associated inspections.

- 2.6. Street sweeping of existing roadways adjacent to construction exits as a result of the Work.
  - 2.7. Dust control as required to eliminate dust created as a result of the Work as well as dust caused by construction traffic on temporary roads and staging areas during precast and steel erection.
  - 2.8. Review and document the current levels of silt/sediment of existing water features, including, but not limited to, ditches, streams, and ponds adjacent to the Project site prior to beginning Work.
  - 2.9. Temporary roads, staging areas, and/or crane pads as shown on the site access plan.
3. EARTHWORK
- 3.1. Selective demolition, clearing, and grubbing.
  - 3.2. Remove existing pipes and utilities scheduled for removal and or abandonment. Shut off, cap/plug, and reroute utilities to the extent required for performance of the Work. Adjust the elevation of utilities to proposed finished grade.
  - 3.3. Strip, replace, and re-spread topsoil prior to landscaping operations at areas disturbed by the Work. Import additional topsoil as required. Topsoil shall be screened for rocks and debris larger than one inch (1") in diameter prior to re-spreading.
  - 3.4. Suitable fill material to subgrade (plus or minus one tenth of one foot (+/-0.10')).
  - 3.5. Excavation, backfill, and fine grading for site concrete and asphalt elements, including, but not limited to, pavement, curb and gutter, sidewalks, and equipment pads.
  - 3.6. Repair building pad after installation of foundations and underslab mechanical, electrical, or plumbing (MEP) equipment.
4. STRUCTURAL EXCAVATION
- 4.1. Structural excavation, backfill, and compaction of concrete foundation elements.
  - 4.2. Excavation for thickened and/or depressed slab sections where required.
  - 4.3. Upon completion of installation of concrete foundation (including footings, columns, piers, and foundation walls) by others, backfill concrete foundation work. The Work includes suitable backfill material and soil compaction, including hand labor, to comply with density and moisture content testing as required.
  - 4.4. Foundations shall be neat excavated to within one inch (1") horizontally of proposed layout and within a tenth of a foot (+/-0.10') of bottom of proposed foundation elevation.
  - 4.5. Where the distance between the top of proposed foundation and top of proposed subgrade is equal to or exceeds two feet (2'), the structural excavation shall extend down to the bottom of footing and shall extend a minimum of three feet (3') beyond the horizontal edge of the proposed foundation to allow for installation/removal of concrete formwork.
  - 4.6. Coordinate excavation with others, including but not limited to the concrete trade(s), to



ensure that the open excavation for each day will not exceed the amount of concrete that will be placed during that same day.

4.7. Granular base below concrete to within a tenth of a foot (+/-0.10') of bottom of proposed concrete elevation.

**The following work is excluded:**

1. Utility and MEP trenching.
2. Site utilities.
3. Storm drainage.
4. Trim and crumb excavation.

**Unit Prices:**

1. Rock excavation: \$ \_\_\_\_\_/CY

## SCOPE OF WORK 33.00.00 - SITE UTILITIES

### SCOPE OF WORK

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, services, superintendence, and other items required to complete such portion of the Work:

**SITE UTILITIES** - Including, but not limited to, Specification Section(s):

<b>31 2333</b>	<b>Trenching And Backfilling - Public Safety Center</b>
<b>33 11 16</b>	<b>Site Water Utility Distribution Piping - Public Safety Center</b>
<b>33 3100</b>	<b>Sanitary Utility Sewerage Piping - Public Safety Center</b>
<b>33 4100</b>	<b>Subdrainage - Courthouse Remodel</b>
<b>33 4100</b>	<b>Subdrainage - Public Safety Center</b>
<b>33 4721</b>	<b>Storm Sewerage System - Public Safety Center</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Courthouse Remodel</b>
<b>Div 00</b>	<b>Procurement and Contracting Requirements - Public Safety Center</b>
<b>Div 01</b>	<b>General Requirements - Courthouse Remodel</b>
<b>Div 01</b>	<b>General Requirements - Public Safety Center</b>

**This Work specifically includes, but is not limited to:**

#### 1. GENERAL

- 1.1. Excavation is classified.
- 1.2. Locate existing utilities on the jobsite prior to the start of the Work and maintain those utility markers while working on the jobsite. Protect from damage existing utilities scheduled to remain and make repairs as needed if damage should occur. Submit as-built drawing of existing conditions for coordination and record purposes.
- 1.3. Spoils shall be distributed on site as directed.
- 1.4. Traffic control (including all permits if required) for this Scope of Work. Reference site access plan for traffic control and lane closures provided by the Contractor (if any).
- 1.5. Erosion control as it relates to this Scope of Work.

#### 2. SITE UTILITIES

- 2.1. Trenching, gravel bedding, encasement, backfill, thrust blocks, and kickers. Compact backfill to meet design density.
- 2.2. Utility service lines to within five feet (5'-0") of the building perimeter and capped for future continuation by others (except as noted). Mark and maintain above-ground capped lines.
- 2.3. Water service lines, shutoffs, and water meter pits.
- 2.4. Water well piping.

- 2.5. Sanitary sewer lines, septic tanks, lift stations, and septic mounds.
- 2.6. Flush, clean, and test utility systems required to produce a complete, engineer-approved system.
- 2.7. Jack and bore under existing roads and walkways.
- 2.8. Adjust manhole covers, including, but not limited to, covers, structure lids, and cleanout covers, to be at finish elevation of pavement, site concrete, and landscaping.

3. STORM DRAINAGE SYSTEMS

- 3.1. Storm sewers including trenching, gravel bedding, encasement (if required), and backfill. Compact backfill to meet design density.
- 3.2. Storm drainage system, including roof drain system tie-ins, storm pipes, and flared ends.
- 3.3. Rip rap.
- 3.4. Perimeter foundation drain.

**The following work is excluded:**

- 1. Rock excavation.
- 2. Underground mechanical and electrical utilities, including but not limited to, chilled water supply and return, high pressure steam, electrical lines, and telecommunication conduits and wires.
- 3. Underground fire tank or piping from tank into building footprint.
- 4. Propane tank and piping.