WEINSTEIN A+U

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ADDENDUM 03

Project Name: South King Fire Administrative Building Improvements
Owner: South King Fire
Issued by: Lauren Rock, Weinstein A+U
Issue Date: May 22, 2025

To All Bidders: Attention is called to the following items effective May 22, 2025, which shall be added to, deleted from, or changed from the Contract Documents, thereby incorporating the addendum as part of the Contract Documents.

Attachments:

E100 Legend-R01
E4B1 Proposed Floor Plan – Garage - Comm, ESS-R01
E401 Proposed Floor Plan – Level 1 – Comm, ESS-R01
E402 Proposed Floor Plan – Level 2 – Comm, ESS-R01

28 13 00 Access Control System-R01
28 23 00 Video Surveillance System-R01
08 41 13 Aluminum Framed Storefronts-R01

Approved Substitution Requests:
09 54 26 Panelized Linear Wood Ceiling – CertainTeed
09 54 26 Panelized Linear Wood Ceiling – Geometrik
09 54 26 Cross-Piece Grille Wood Ceiling – CertainTeed
09 54 26 Cross-Piece Grille Wood Ceiling – Geometrik
27 15 00 Data and Telephone Cabling System – Legrand Ortronics

Rejected Substitution Requests:
23 18 29 Variable Refrigerant Flow HVAC – Carrier and Toshiba Carrier
10 21 13 Toilet Compartments – ASI Global Partitions and ASI Accurate Partitions
10 28 00 Toilet and Bath Accessories – ASI Public Washroom Accessories

Drawing Items (changes have been clouded)

E100	Added security keypad and motion sensor symbols to Legend.
E4B1	Added security keypad locations to Garage Floor Plan.
E401	Added security keypad and motion sensor locations to Level 1 Floor Plan.
E402	Added security keypad and motion sensor locations to Level 2 Floor Plan.

Specification Items (changes have been tracked)

08 41 13	Item 2.1.L.1: Revised to Outdoor-Indoor Transmission Class: Minimum 32.
28 13 00	Added 1.1.C identifying security zones.
	Item 2.3.B.2: Added Mercury device part numbers.

	Item 2.3.B.7: Ad HID part numbers for card readers.
28 23 00	Item 1.1.C: Revised Milestone to Omnicast.
	Item 2.1.A.1: Revised to Sony camera.
	Item 2.1.C: Deleted parking camera.
	Item 2.3: Revised Milestone to Omnicast.

Questions

01.	Question: Milestone appears to be the existing VMS and will be expanded, what is the system ID for the milestone system?
	Answer: System ID will be provided to selected contractor.
02.	Question: Per 28 13 00, 1.5, B. The SMS will be used to view, record and store digital surveillance video linked to SMS events. This implies that the SMS and VMS are a unified system, but the VMS is specified as Milestone. Section 281600 states that the Bosch Intrusion system needs to be fully integrated with Genetec, but I don't see the same type of wording in 282300 regarding Milestone. Is the intent for the SMS to be Genetec and the VMS to be Milestone with an integration for tagging video with SMS events?
	Answer: Spec section 28 23 00 has been revised to Omnicast to integrate with SKF's existing Genetec system.
03.	Question: There is an intrusion system specified however there are not any devices shown on the plans, will there be an updated plan issued with devices shown?
	Answer: Security keypad and potion sensor locations have been added to E4B1, E401 & E402.
04.	Question: In reference to the South King Fire Linear Wood Ceiling 9 Wood Cross Piece Grille product WD-2, can you advise how many grille members per linear foot are needed? The details in the spec speak mainly to the 9Wood 2100 Panelized Linear product WD-1.
	Answer: WD-2 needs to have 8 grille members per foot.
05.	Question: Is Class A fire rating required for the wood ceiling, WD-1 and WD-2?
	Answer: A Class B fire rating is required for WD-1 and WD-2.
06.	Question: Please confirm all interior storefront frames are of hollow metal type covered under spec section 081113. If the above is true, then SF7 as shown on A711 erroneously includes Frame Type 2 at Door 101B w/Sidelite (Aluminum Framed Entrance).
	Answer: Spec section 08 11 13 applies to Hollow Metal Doors and Frames. Storefront systems are covered in section 08 11 16.13 Interior Aluminum Doors and Frames.
07.	Question: A minimum OITC rating of 38 per 084113 2.1 L.1 is unachievable with the specified storefront system. An OITC of 38 is very high for fenestration and is not normally seen outside of deep acoustical curtain wall systems. It is entirely possible that the specifier confused STC and OITC ratings. Please confirm OITC performance requirements of 084113 and IGU glazing schedule.
	Answer: 08 41 13-2.1 L. has been revised to indicate an OITC minimum of 32.
08.	Question: What spaces within this project have AV scope and is there any provided Bill of Materials for these spaces?
	Answer: AV scope is not included.

Substitution Requests – APPROVED

Note: Acceptance of Substitution Requests does not relieve the contractor from meeting any requirements of the bid document specifications. Submitted Substitution Request Forms are attached for reference.

01. The following manufacturers/products are *approved* for 09 54 26 Panelized Linear Wood Ceiling (WD-1):

- CertainTeed, Wood Panelized Linear
- Geometrik, Geopanel Linear

02. The following manufacturers/products are *approved* for 09 54 26 Cross-Piece Grille Wood Ceiling (WD-2):

- CertainTeed, Wood Backer Grille Ceiling
- Geometrik, Geopanel Grille

03. The following manufacturers/products are *approved* for 27 15 00 Data and Telephone Cabling System:

- Legrand, Ortronics/ Superior Essex

Substitution Requests - REJECTED

04. The following manufacturers/products are *rejected* for 23 18 29 Variable Refrigerant Flow HVAC Systems:

- Carrier
- Toshiba Carrier

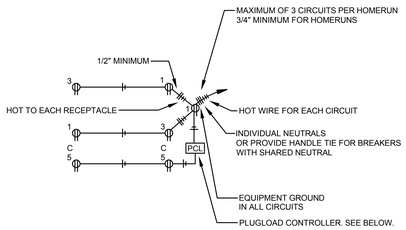
05. The following manufacturers/products are *rejected* for 10 21 13 Toilet Compartments:

- ASI Global Partitions & ASI Accurate Partitions

06. The following manufacturers/products are *rejected* for 10 28 00 Toilet and Bath Accessories:

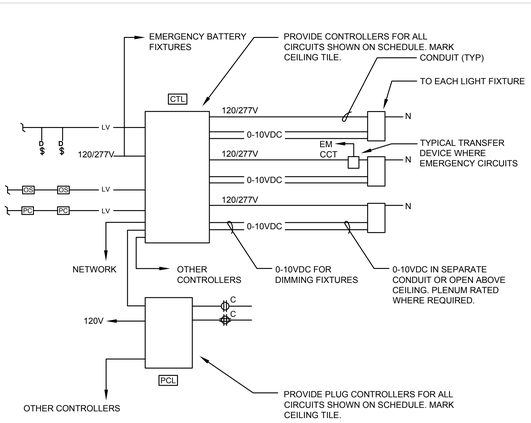
- ASI Public Washroom Accessories

End of Addendum 03.



TYPICAL RECEPTACLE CIRCUITING DETAIL

SCALE: NONE



TYPICAL LIGHTING CONTROL DETAIL

SCALE: NONE

LEGEND

- CONDUIT CONCEALED IN CEILING OR WALLS
- CONDUIT CONCEALED UNDERGROUND, UNDER FLOOR, OR IN WALL
- 3/4" CONDUIT, NUMBER OF MARKS SHOWS NUMBER OF #12 WIRES. NO MARKS=2#12
- HOME RUN WITH DESTINATION INDICATED, MINIMUM 3/4"
- SURFACE OR PENDANT MOUNTED FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE OR PENDANT LIGHT FIXTURE
- WALL MOUNTED FIXTURE
- VANITY LIGHT, WALL MOUNTED
- UNDERCABINET LIGHT WITH INTEGRAL SWITCH
- EXIT SIGN LIGHT FIXTURE TYPE X, EXCEPT AS NOTED
- FIXTURE WITH INTEGRAL EMERGENCY BATTERY
- WALL SWITCH, 1-POLE
- WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR
- DIGITAL WALL SWITCH
- DIMMER WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR
- OCCUPANCY SENSOR
- PHOTOCELL
- RELAY PACK
- XXX XXXX LIGHTING FIXTURE TYPE DESIGNATOR, SEE LIGHT FIXTURE SCHEDULE
- CTL LIGHTING ROOM CONTROLLER
- PCL PLUG LOAD CONTROLLER
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE ABOVE COUNTER
- CONTROLLED DUPLEX RECEPTACLE
- CONTROLLED DUPLEX RECEPTACLE ABOVE COUNTER
- DOUBLE DUPLEX RECEPTACLE
- CONTROLLED DOUBLE DUPLEX RECEPTACLE
- GFI GROUND FAULT INTERRUPTER RECEPTACLE
- WP WEATHERPROOF DUPLEX RECEPTACLE (GFI TYPE)
- SPLIT-WIRED RECEPTACLE
- FLUSH FLOOR DUPLEX RECEPTACLE
- D DRYER OUTLET, NEMA 14-30R, SINGLE PHASE
- H HOOD OUTLET
- R RANGE OUTLET, NEMA 14-50R, 208V, SINGLE PHASE
- THERMOSTAT
- EQUIPMENT CONNECTION
- MOTOR CONNECTION
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- PTD POKE THROUGH WITH DEVICES AS SHOWN
- FSD FIRE SMOKE DAMPER CONNECTION, TO CLOSE ONLY ON LOCAL SMOKE DETECTION
- FA FIRE ALARM CONNECTION
- S SMOKE DETECTOR
- FA HORN/STROBE
- FA SPEAKER, WEATHER PROOF
- FA STROBE
- D DOOR HOLD, RELEASE ON BUILDING FA SIGNAL OR LOCAL SMOKE DETECTION; SEE PLANS
- F FIRE ALARM PULL STATION
- FLOW OR TAMPER SWITCH
- FS SPRINKLER FLOW SWITCH CONNECTION
- TS SPRINKLER TAMPER SWITCH CONNECTION
- AV AV OUTLET
- SINGLE PORT DATA OUTLET
- TWO PORT DATA OUTLET
- WAP SINGLE PORT DATA OUTLET FOR WIRELESS ACCESS POINT
- TV OUTLET
- CCTV CAMERA
- CR CARD READER
- LR LONG RANGE CARD READER
- DS DOOR SWITCH
- EL ELECTRIC LOCK
- REX REQUEST TO EXIT DEVICE
- K KEYPAD FOR SECURITY SYSTEM (MOTION DETECTION)
- MS MOTION SENSOR
- 208 VOLT PANEL
- 480 VOLT PANEL
- WP WEATHERPROOF
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- A/B DETAIL INDICATOR WITH SHEET WHERE DRAWN INDICATED
- 1 FLAG NOTE
- EXIST DEVICE/FIXTURE AS INDICATED
- EXIST DEVICE/FIXTURE AS INDICATED TO BE REMOVED

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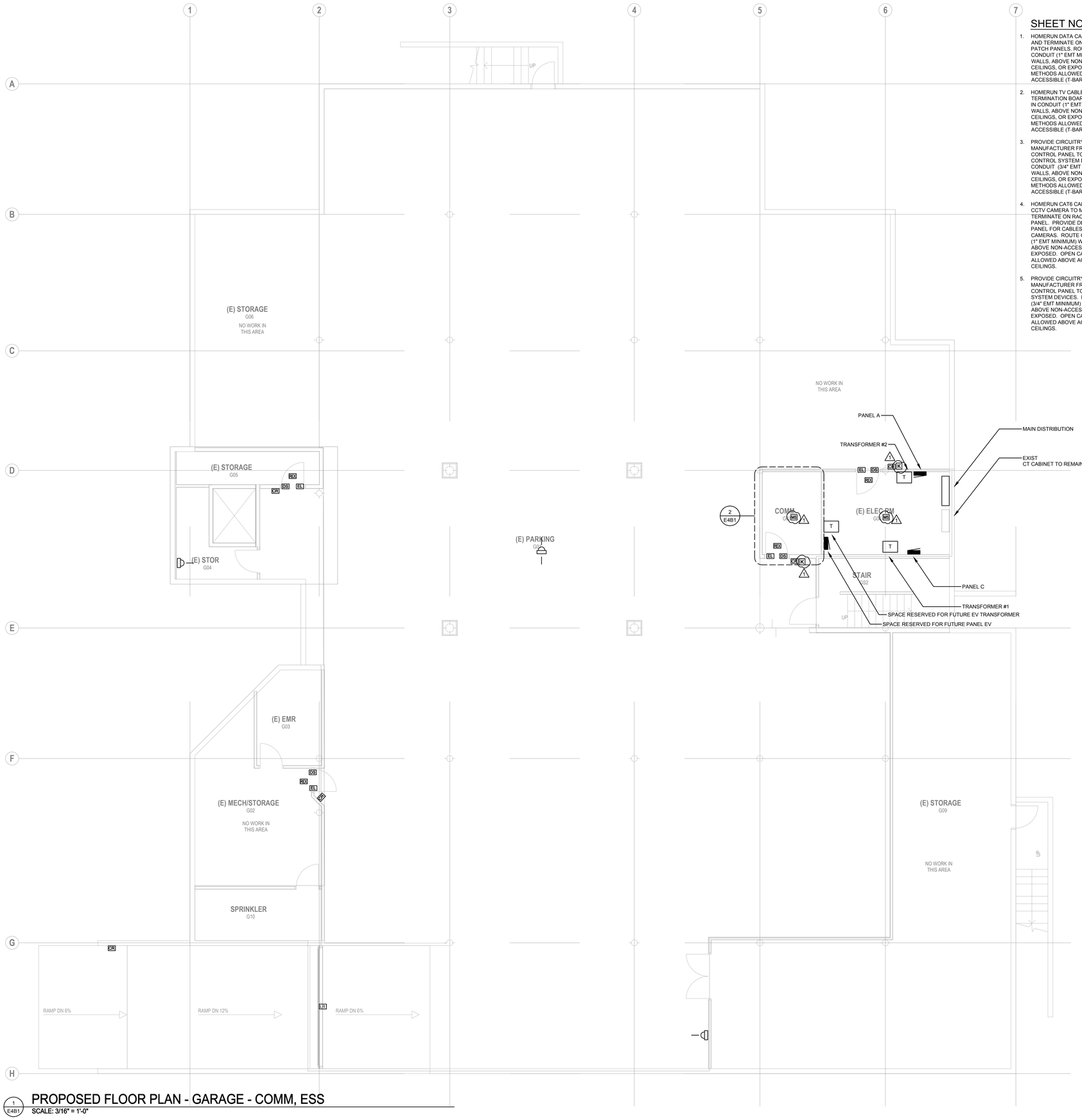
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LEGEND
Sheet Title

E100

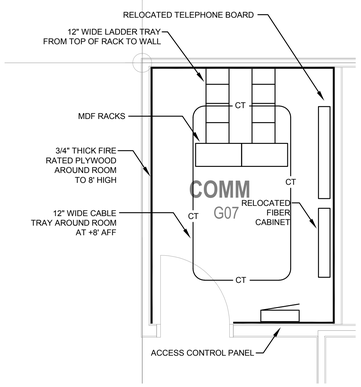
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SHEET NOTES:

1. HOMERUN DATA CABLES TO MDF RACK AND TERMINATE ON RACK MOUNTED PATCH PANELS. ROUTE CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR)CEILINGS.
2. HOMERUN TV CABLES TO TV TERMINATION BOARD. ROUTED CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOUT ACCESSIBLE (T-BAR) CEILINGS.
3. PROVIDE CIRCUITRY AS REQUIRED BY MANUFACTURER FROM ACCESS CONTROL PANEL TO ALL ACCESS CONTROL SYSTEM DEVICES. ROUTE IN CONDUIT (3/4" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.
4. HOMERUN CAT6 CABLE FROM EACH CCTV CAMERA TO MDF RACK AND TERMINATE ON RACK MOUNTED PATCH PANEL. PROVIDE DEDICATED PATCH PANEL FOR CABLES SERVING CCTV CAMERAS. ROUTE CABLES IN CONDUIT (1" EMT MINIMUM) WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS, OR EXPOSED. OPEN CABLING METHODS ALLOWED ABOVE ACCESSIBLE (T-BAR) CEILINGS.
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2 E4B1 **ENLARGED COMM G07 - COMM,ESS**
SCALE: 3/8" = 1'-0"

1 E4B1 **PROPOSED FLOOR PLAN - GARAGE - COMM, ESS**
SCALE: 3/16" = 1'-0"

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1 E401 PROPOSED FLOOR PLAN - LEVEL 1 - COMM, ESS

SCALE: 3/16" = 1'-0"

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6. CONTRACTOR SHALL CONFIRM EXISTING DEVICES TO REMAIN ARE OPERATIONAL PRIOR TO BEGINNING WORK.

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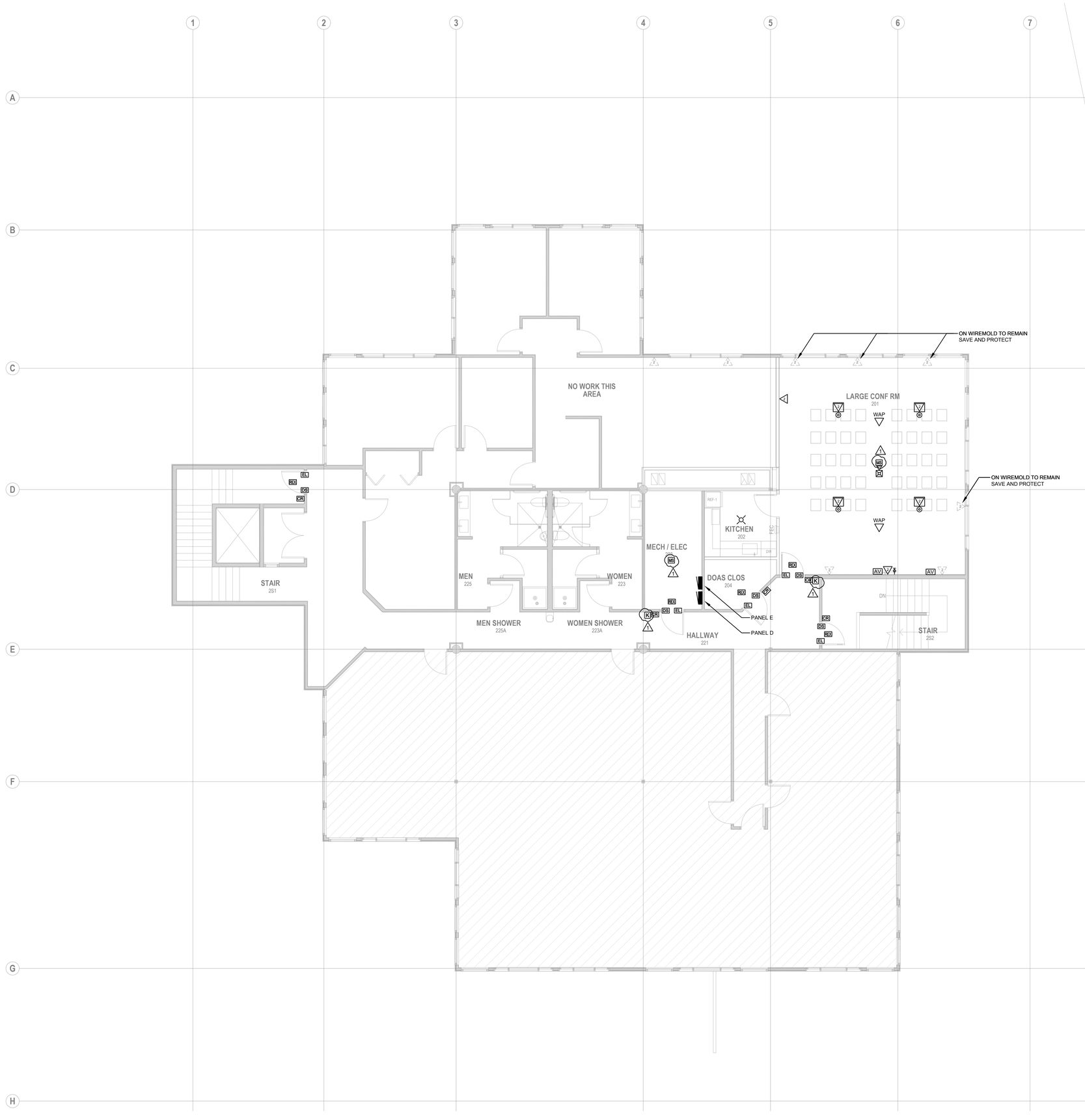
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PROPOSED FLOOR PLAN - LEVEL 1 - COMM, ESS
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E401

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6. LEVEL 2 WORK SHALL BE PROVIDED UNDER ADDITIVE ALTERNATE 1.

1 E402 PROPOSED FLOOR PLAN - LEVEL 2 - COMM, ESS

SCALE: 3/16" = 1'-0"

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PROPOSED FLOOR PLAN - LEVEL 2 - COMM, ESS
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E402

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SECTION 084113 - ALUMINUM FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Exterior storefront framing.
2. Exterior and interior manual-swing entrance doors and door frame units.

B. Related Requirements:

1. Section 081116.13 “Interior Aluminum Doors and Frames” for interior aluminum doors and frames.
2. Section 087100 “Door Hardware” for additional door hardware.
3. Section 088000 “Glazing” for insulated glazing units.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Discuss adjacent assemblies, integration into air barrier, weather barrier, special conditions, and sealants.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include Technical Data Sheets (TDS) and applicable Material Safety Data Sheets (MSDS).

B. Shop Drawings: Include plans, elevations, sections, full-size details, and attachments to other work.

1. Show connection to and continuity with adjacent thermal, weather, air, and vapor barriers.

C. Samples for Verification: For each exposed finish required.

D. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams.

E. Delegated-Design Submittal: For aluminum-framed entrances and storefronts indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

A. Energy Performance Certificates: Fenestration Calculation Report / Bid Report according to NFRC CMA procedures. NFRC-certified energy performance values from manufacturer in coordination with insulated glazing units.

B. Product test reports including air infiltration, water penetration, structural performance – AAMA /WDMA/CSA – 101/IS.2/A440.

C. Field quality-control reports.

D. Sample warranties.

E. Manufacturer’s certificate stating products meet or exceed requirements.

F. Laboratory test reports certifying products meet air infiltration, water penetration, and structural performance.

G. Approval letter by manufacturer that proposed and submitted system meets the requirements of the Project to resist wind load forces as calculated by Structural Engineer of Record

1.5 CLOSEOUT SUBMITTALS

A. Maintenance data.

B. NFRC Certificates if required by jurisdiction.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

B. Manufacturer qualifications for entity manufacturing aluminum storefronts.

C. Testing Agency Qualifications: Qualified according to ASTM E 699 for testing indicated and accredited by IAS or ILAC Mutual Recognition Arrangement as complying with ISO/IEC 17025.

D. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.

1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.

1.7 MOCKUPS

A. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.

1. Build mockup of typical wall area as shown on Drawings.
2. Testing shall be performed on mockups according to requirements in "Field Quality Control" Article.
3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of aluminum-framed systems that do not comply with requirements or that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Five years from date of Substantial Completion.

B. Special Finish Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components on which finishes do not comply with requirements or that fail in materials or workmanship within specified warranty period. Warranty does not include normal weathering.

1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Aluminum-framed systems shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction:

1. Movements of supporting structure indicated on Drawings including, but not limited to, story drift and deflection from uniformly distributed and concentrated live loads.
2. Dimensional tolerances of building frame and other adjacent construction.
3. Failure includes the following:

a. Deflection exceeding specified limits.
b. Thermal stresses transferring to building structure.
c. Framing members transferring stresses, including those caused by thermal and structural movements to glazing.
d. Noise or vibration created by wind and by thermal and structural movements.
e. Loosening or weakening of fasteners, attachments, and other components.
f. Failure of operating units.
g. Glass breakage.

B. Delegated Design: Design aluminum-framed systems, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

C. Thermal Breaks and Separation: Storefront framing shall incorporate thermal break separating framing components exposed to interior and exterior environments.

D. Structural Loads:

1. Wind Loads: 95 mph, per City of Federal Way “Desing Criteria – Climatic and Geographic”
2. Other Design Loads: per City of Federal Way “Desing Criteria – Climatic and Geographic”

E. Deflection of Framing Members: At design wind pressure, as follows:

1. Deflection Normal to Wall Plane: Limited to edge of glass in a direction perpendicular to glass plane not exceeding 1/175 of the glass edge length for each individual glazing lite or an amount that restricts edge deflection of individual glazing lites to 3/4 inch, whichever is less.

2. Deflection Parallel to Glazing Plane: Limited to 1/360 of clear span or 1/8 inch, whichever is smaller.

    a. Operable Units: Provide a minimum 1/16-inch clearance between framing members and operable units.

3. Cantilever Deflection: Where framing members overhang an anchor point, as follows:

    a. Perpendicular to Plane of Wall: No greater than 1/240 of clear span plus 1/4 inch for spans greater than 11 feet 8-1/4 inches or 1/175 times span, for spans of less than 11 feet 8-1/4 inches.

F. Structural: Test according to ASTM E330/E330M as follows:

1. When tested at positive and negative wind-load design pressures, storefront assemblies, including entrance doors, do not evidence deflection exceeding specified limits.
2. When tested at 150 percent of positive and negative wind-load design pressures, storefront assemblies, including entrance doors and anchorage, do not evidence material failures, structural distress, or permanent deformation of main framing members exceeding 0.2 percent of span.
3. Test Durations: As required by design wind velocity, but not less than 10 seconds.

G. Air Infiltration: Test according to ASTM E283 for infiltration as follows:

1. Fixed Framing and Glass Area:

    a. Maximum air leakage of 0.06 cfm/sq. ft. at a static-air-pressure differential of 6.24 lbf/sq. ft.

2. Entrance Doors:

    a. Single Doors: Maximum air leakage of 0.5 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft.

H. Water Penetration under Static Pressure: Test according to ASTM E331 as follows:

1. No evidence of water penetration through fixed glazing and framing areas, including entrance doors, when tested according to a minimum static-air-pressure differential of not less than 10 lbf/sq. ft. or 15 percent of design pressure, whichever is greater. Water leakage shall be defined as any uncontrolled water passing the plane of air tightness for the system. Water that exists on a surface intended to drain to the exterior is not water leakage.

I. Water Penetration under Dynamic Pressure: Test according to ASTM E1105.

J. Seismic Performance: Aluminum-framed entrances and storefronts shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.

1. Seismic Drift Causing Glass Fallout: Complying with criteria for passing based on building occupancy type when tested according to AAMA 501.6 at design displacement and 1.5 times the design displacement.

K. Energy Performance: Certify and label energy performance according to NFRC as follows:

1. Thermal Transmittance (U-factor): Fixed glazing and framing areas as a system shall have U-factor indicated on Drawings as determined according to NFRC 100.

2. Solar Heat Gain Coefficient (SHGC): Fixed glazing and framing areas as a system shall have SHGC indicated on Drawings as determined according to NFRC 200.
3. Condensation Resistance: Fixed glazing and framing areas as a system shall have an NFRC-certified condensation resistance rating indicated on Drawings as determined according to NFRC 500.

L. Noise Reduction: Test according to ASTM E90, with ratings determined by ASTM E1332, as follows.

1. Outdoor-Indoor Transmission Class: Minimum ~~38.~~ 32 ADD-03

M. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes.

1. Temperature Change: 120 degrees F, ambient; 180 degrees F, material surfaces.
2. Thermal Cycling: No buckling; stress on glass; sealant failure; excess stress on framing, anchors, and fasteners; or reduction of performance when tested according to AAMA 501.5.

a. High Exterior Ambient-Air Temperature: That produces an exterior metal-surface temperature of 180 degrees F.
b. Low Exterior Ambient-Air Temperature: 0 degrees F.
c. Interior Ambient-Air Temperature: 75 degrees F.

2.2 STOREFRONT SYSTEMS

A. Manufacturers: Subject to compliance with requirements, provide products by the following:

1. Kawneer North America; Trifab Versa Glaze 451T systems.

B. Framing Members: Manufacturer's standard extruded-aluminum framing members of thickness required and reinforced as required to support imposed loads.

1. Construction: Thermally broken.
2. Glazing System: Retained mechanically with gaskets on four sides.
3. Glazing Plane: Center.

C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.

D. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.

E. Anchors Clips and Accessories: Aluminum, nonmagnetic stainless steel, or zinc coated complying with ASTM B 633 for SC 3.

F. Storefront sill condition shall be provided in factory with means for structural attachment at sill condition in back angle method. Installation of storefront with fasteners penetrating sill condition of aluminum extrusion will not be considered.

G. Window System Attachment at Sill Condition:

1. Fasteners for window system shall not penetrate rigid sill pan or membranes.
2. Fastening at sill condition shall be with manufacturer’s approved back angle at interior face of extrusion.

3. Sill condition of system shall be provided with means of drainage per Project Documents.

H. Fasteners: Aluminum, nonmagnetic stainless steel or other materials non-corrosive and compatible with aluminum window members, trim hardware, anchors, and other components.

I. Sealant Within Storefront System: Permanently elastic, non-shrinking, non-migrating type recommended by sealant manufacturer for joint size and movement.

J. Materials:

1. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.

a. Sheet and Plate: ASTM B 209.
b. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.
c. Extruded Structural Pipe and Tubes: ASTM B 429/B 429M.
d. Structural Profiles: ASTM B 308/B 308M.

2. Steel Reinforcement: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM and prepare surfaces according to applicable SSPC standard.

a. Structural Shapes, Plates, and Bars: ASTM A 36/A 36M.
b. Cold-Rolled Sheet and Strip: ASTM A 1008/A 1008M.
c. Hot-Rolled Sheet and Strip: ASTM A 1011/A 1011M.

2.3 SWINGING ENTRANCE DOOR SYSTEMS

A. Manufacturers: Subject to compliance with requirements, provide products by the following:

1. Kawneer Company; 500T Wide Stile Insulpour Thermal Entrance.

B. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing operation.

1. Door Construction: 2-1/4-inch overall thickness, with minimum 0.188-inch-thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
2. Door Design:

a. Wide stile; 5-inch nominal width.
b. Top rail, 5-inch nominal width.
c. Accessible Doors: Smooth surfaced for width of door in area within 10 inches above floor or ground plane.

3. Glazing Stops and Gaskets: Square, snap-on, extruded-aluminum stops and preformed gaskets.

a. Provide non-removable glazing stops on outside of door.

C. Entrance Door Hardware: As specified in Section 087100 "Door Hardware."

2.4 ENTRANCE DOOR HARDWARE

A. Door Hardware: Refer to Section 087100 “Door Hardware.”

2.5 GLAZING SYSTEMS

A. Glazing: As specified in Section 088000 "Glazing."

B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, molded or extruded, of profile and hardness required to maintain watertight seal.

C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type and compatible with all sealants and glazing components.

D. Glazing Sealants: As recommended by manufacturer.

1. Sealant shall have a VOC content of 250 g/L or less.

2.6 FABRICATION

A. Form or extrude aluminum shapes before finishing.

B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.

C. Fabricate components that, when assembled, have the following characteristics:

1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fitted joints with ends coped or mitered.
3. Physical and thermal isolation of glazing from framing members.
4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
5. Provisions for field replacement of glazing from interior for vision glass and exterior for spandrel glazing or metal panels
6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

E. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.

F. Entrance Doors: Reinforce doors as required for installing entrance door hardware.

G. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.

H. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.7 ALUMINUM FINISHES

A. Color Anodic Finish: AAMA 611, or thicker.

1. Color: Dark bronze.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General:

1. Comply with manufacturer's written instructions.
2. Do not install damaged components.
3. Fit joints to produce hairline joints free of burrs and distortion.
4. Rigidly secure non-movement joints.
5. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration.
6. Seal joints watertight unless otherwise indicated.

B. Set continuous sill members and flashing in full sealant bed as specified in Section 079200 "Joint Sealants" and as indicated on Drawings and building envelope details to produce weathertight installation.

C. Install components plumb and true in alignment with established lines and grades.

D. Install operable units level and plumb, securely anchored, and without distortion. Adjust weather-stripping contact and hardware movement to produce proper operation.

E. Install glazing as specified in Section 088000 "Glazing."

F. Entrance Doors: Install doors to produce smooth operation and tight fit at contact points.

1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware according to entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

G. Provide trim and flashing components as indicated on Drawings.

H. Do not install units through sill condition. Installation of units shall be via back angle method, into backside of storefront extrusion from interior. Sill condition of window to include rigid metal flashings and flexible membranes shall be free of penetrations as a result of storefront unit installation

3.2 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.

B. Field Quality-Control Testing: Perform the following test on representative areas of aluminum-framed entrances and storefronts mockups.

1. Water-Spray Test: Before installation of interior finishes has begun, areas designated by Architect shall be tested according to AAMA 501.2 and shall not evidence water penetration.

a. Perform a minimum of two tests in areas as directed by Architect.
b. Perform test in accordance with ASTM E1105. Test at 2/3 the specified lab performance criteria.
c. Pass/Fail Criteria: Water penetration shall not be as defined in ASTM E1105. Water penetration is defined as the appearance of any water on the interior side of the

defined boundary of water control, including interface locations with adjacent envelope systems, that is not contained and drained back to the exterior, or that can cause damage to adjacent materials or finishes. Water fully contained in drained flashings, gutters, and sills is not considered water leakage..

2. Water Penetration Field Testing: ASTM E1105, Procedure A, consistent of 15 minutes induced air pressure difference.
3. Air Infiltration: ASTM E783 at 1.5 times the rate specified for laboratory testing in "Performance Requirements" Article but not more than 0.09 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft..

    a. Perform a minimum of two tests in areas as directed by Architect.

C. Aluminum-framed entrances and storefronts will be considered defective if they do not pass tests and inspections.

1. Retesting shall be at the expense of the Contractor. At the Architect’s discretion, 1 similar unit shall be tested in addition to the failed specimen.

D. Prepare test and inspection reports.

1. Test and inspection reports shall be prepared by the qualified testing agency and provided to the Contractor for review.
2. Subcontractor and Contractor will facilitate performance of the testing per testing agencies requirements.

END OF SECTION 084113

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SECTION 28 13 00 - ACCESS CONTROL SYSTEM

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Provide a complete and fully operation Access Control system fully integrated to the building security system. The installer must be the same as for Section 281600 Intrusion Detection System.

B. System is fully Internet Protocol (IP)

C. System will have three security zones.
1. Garage communication and electrical rooms plus Level 2 electrical room
2. Level 1
~~B.~~3. Level 2 classroom

1.2 INSTALLER QUALIFICATIONS

A. Systems Integrator must be a current Genetec VAR

1.3 DEFINITIONS

A. API: Application Programming Interface.

B. LDAP: Lightweight Directory Access Protocol.

C. NTSC: National Television Standards Committee.

D. PAL: Phase Alternating Line. PAL is the color video standard used in Europe and many other countries.

E. SMS: Security Management System.

1.4 REFERENCE STANDARDS

A. Where more than one (1) reference standard, code, or regulation applies, the more stringent one shall govern.

B. Electronic Industries Alliance (EIA):
1. EIA RS-170 - Standard for Composite Video Signals.

C. Federal Communications Commission (FCC).
1. FCC Part 15 - Unlicensed RF Devices.
2. FCC Part 68 - Requirements for Connecting to the U.S. Phone Network. F. Institute of Electrical and Electronics Engineers, Inc. (IEEE).

D. International Organization for Standardization (ISO). H. International Radio Consultive Committee (CCIR).

E. Microsoft® Open Database Connectivity (ODBC) Interface.

F. National Fire Protection Association (NFPA):
1. NFPA 70 - National Electrical Code.

G. National Institute of Standards and Technology (NIST):
1. Federal Information Processing Standards Publication (FIP PUBS 197) - Specification for the Advanced Encryption Standard (AES).

H. National Television Standards Committee (NTSC):
1. Color Camera Broadcast Standard.

I. Underwriters Laboratories Inc. (UL):
1. UL 294 - Standard for Access Control System Units.
2. UL 1076 - Standard for Proprietary Burglar Alarm Units and Systems.

1.5 SECURITY MANAGEMENT SYSTEM (SMS) DESCRIPTION

A. Provide a complete Genetec software package and network to the fire district system.

B. The Security Management System (SMS) outlined in this section and detailed in Part 2 of this section is the key central component for managing physical security and the bridge between physical and logical security for a project. The system shall provide a variety of integral functions including: regulation of access and egress; provision of identification credentials; monitor, track and interface alarms and; view, record and store digital surveillance video linked to SMS events.

1.6 SUBMITTALS

A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, and furnished specialties and accessories. Reference each product to a location on Drawings.
   1. Manufacturer's technical data for all material and equipment at the system and sub system level to be provided as part of the SMS.
   2. A system description including analysis and calculations used in sizing equipment required by the SMS. The description shall show how the equipment will operate as a system to meet the performance requirements of the SMS. The following information shall be supplied as a minimum:
      a. Server(s) processor(s), disk space and memory size.
      b. Description of site equipment and its configuration.
      c. Network bandwidth, latency and reliability requirements.
      d. Backup or archive system size and configuration.
      e. Start up operations.
      f. System expansion capability and method of implementation.
      g. System power requirements and UPS sizing.
      h. Device or component environmental requirements (cooling and or heating parameters).
      i. A description of the operating system and application software.

B. Shop Drawings: Submit plans, elevations, sections, details, and attachments to other work.
   1. Indicate all system device locations on architectural floor plans. No other system(s) shall be included on these plans.
   2. Include full schematic wiring information on these drawings for all devices. Wiring information shall include cable type, conductor routings, quantities, and connection details at device.
   3. Include a complete SMS one-line, block diagram.
   4. Include a statement of the system sequence of operation.

C. Operation and Maintenance Data: For electronic security system to include in emergency, operation, and maintenance manuals. In addition to items specified in Section 01 78 23, include the following:
   1. Provide 5 sets electronic format manuals including operating instructions, maintenance recommendations and parts list including wiring and connection diagrams modified to reflect as-built conditions.
   2. Manuals: Deliver final copies of the manuals after completing the installation test. Each manual's contents shall be identified on the cover. The manual shall include names, addresses, and telephone numbers of the Contractor responsible for the installation and maintenance of the system and the factory representatives for each item of equipment for each system. The manuals shall have a table of contents and labeled sections. The final copies delivered after completion of the installation test shall include all modifications made during installation, checkout, and acceptance testing. The manuals shall consist of the following:
      a. Functional Design Manual: Identify the operational requirements for the system and explain the theory of operation, design philosophy, and specific

functions.Include a description of hardware and software functions, interfaces, and requirements.

b. Hardware Manual: Describe equipment furnished including:
   1) General description and specifications.
   2) Installation and check out procedures.
   3) Equipment layout and electrical schematics to the component level.
   4) System layout drawings and schematics.
   5) Alignment and calibration procedures.
   6) Manufacturer’s repair parts list indicating sources of supply.

c. Software Manuals: Describe the functions of software and include all other information necessary to enable proper loading, testing, and operation. The manual shall include:
   1) Definition of terms and functions.
   2) System use and application software.
   3) Initialization, startup, and exit.
   4) Reports generation.
   5) Details on forms customization and field parameters.

3. As-Built Drawings: During system installation, the Contractor shall maintain a separate hard copy set of drawings, elementary diagrams, and wiring diagrams of the SMS to be used for record drawings. This set shall be accurately kept up to date by the Contractor with all changes and additions to the SMS. Copies of the final as-built drawings shall be provided to the end user in DXF format.

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications:
   1. SMS manufacturer shall be an established organization with referenced and documented experience delivering and maintaining SMS of equal or higher sophistication and complexity as compared to the system detailed in this specification.
   2. SMS manufacturer shall employ at a minimum the following methods for quality assurance of component and assembly devices.
      a. Perform visual inspection of devices to verify assembly according to defined procedures. Perform end of line operational tests to ensure product functionality has been correctly configured.
   3. Perform individual functionality and system level regression testing to ensure compliance with product specifications. Perform single and multiple unit system tests to mimic end-user installation configurations. Utilize automated hardware and software testing to evaluate system performance under published operational loads and compare to published system capabilities.

1.8 DELIVERY, STORAGE AND HANDLING

A. Deliver, store, and handle materials, components, and equipment in manufacturer's protective packaging.

B. Store components and equipment in temperature and humidity controlled environment in original manufacturer's sealed containers. Maintain ambient temperature between 50 and 85 degrees Fahrenheit (10 and 29.4 degrees Celsius), and not more than 80 percent relative humidity, non-condensing.

C. Open each package; verify contents against packing list; and file copy of packing list, complete with package identification, for inclusion in operation and maintenance data.

D. Mark packing list with the same designations assigned to materials, components, and equipment for recording in the system labeling schedules that are generated by software.

E. Save original manufacturer's containers and packing materials and deliver as directed under provisions covering extra materials.

1.9 PROJECT CONDITIONS

A. Environmental Conditions: System shall be capable of withstanding the following environmental conditions without mechanical or electrical damage or degradation of operating capability:
   1. Equipment and Components: Rated for continuous operation in ambient conditions of 60 to 85 degrees Fahrenheit (15.5 and 29.4 degrees Celsius) and a relative humidity of 20 to 80 percent, non-condensing.
   2. Indoor Environment: NEMA 250, Type 1 enclosure.
   3. Outdoor Environment: NEMA 250, NEMA 250, Type 4 enclosures.

1.10 WARRANTY

A. SMS, Third-party, and Access Control Warranty:
   1. SMS manufacturer warrants that the product disc and hardware key shall be free from defects in material and workmanship and that SMS software product will function in substantial accordance to SMS manufacturer's specifications. Any defective dongle will be replaced at no charge provided that the system is currently on a supported version of SMS software. Dongles for non-supported versions will be replaced for a cost.
   2. All SMS manufacturer branded access control hardware is provided with a three (3) year warranty from the date of project substantial completion. SMS manufacturer warrants that such products will be free from defects in material and workmanship and that they will operate in general accordance with their product specifications. The parts will be repaired or replaced at the manufacturer’s option. Reseller shall follow SMS manufacturer’s procedures for RMA with these products. SMS manufacturer provides repair or replacement of SMS manufacturer branded components for up to five years from the product discontinuance date.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Manufacturer: Genetec

B. Substitutions will not be considered.

2.2 SMS SOFTWARE

A. Security Management System (SMS) Software: Genetec with add on text notification and mapping. System shall be expanded completely to accommodate this project. Include all components necessary for a complete and fully operational access control system.

2.3 Equipment

A. Security Management System (SMS) Hardware: The SMS shall be equipped with the access control field hardware required to receive alarms and administer all access granted or denied decisions. All field hardware must be designed to meet UL 294

B. The SMS must be able to retrieve device serial numbers from all field hardware, excluding card readers, biometric readers, and keypads. Depending upon the configuration, the SMS field hardware must be able to include any or all of the following components:
   1. System and Door Controller
      a. Genetec .
         1) The interface is for use in low voltage, Class 2 Circuits only.
         2) The installation of this device must comply with all local fire and electrical codes.
         3) Primary Power: 12 to 24 Vdc ± 10 %, 500 mA maximum (reader and USB ports not included)
         4) Reader Ports 600 mA maximum (add 600 mA to primary power current)
         5) Micro USB Port 5 Vdc, 500 mA maximum (add 270 mA to primary power current)
         6) Memory and Clock Backup Battery: 3 Volt Lithium, type BR2330 or CR2330

7) microSD Card: Format: microSD or microSDHC; 2GB to 8GB
8) Host Communication: Ethernet: 10-BaseT/100Base-TX and Micro USB port (2.0) with optional adapter: pluggable model USB2-OTGE100, Wiegand
9) Serial I/O Device One each: 2-wire RS-485, 2,400 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit
10) Inputs: Eight unsupervised/supervised, standard EOL: 1k/1k ohm, 1%, ¼ watt Two unsupervised dedicated for cabinet tamper and UPS fault monitoring
11) Outputs: Four relays, Form-C with dry contacts Normally open contact (NO) contact: 5 A @ 30 Vdc resistive Normally closed contact (NC) contact: 3 A @ 30 Vdc resistive
12) Reader Interface
    a) Power: 12 Vdc ± 10 % regulated, 300 mA maximum each reader (jumper selectable) (input voltage (VIN) must be greater than 20 Vdc) or 12 to 24 Vdc ± 10 % (input voltage (VIN) passed through), 300 mA maximum each reader
    b) Data Inputs: TTL compatible, F/2F or 2-wire RS-485
    c) RS-485 Mode: 9,600 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit. Maximum cable length: 2000 ft. (609.6 m)
    d) LED Output: TTL levels, high>3 V, low<0.5 V, 5 mA source/sink maximum
    e) Buzzer Output: Open collector, 12 Vdc open circuit maximum, 40 mA sink maximum
13) Cable requirements
    a) Power and Relays: 1 twisted pair, 18 to 16 AWG
    b) Ethernet: CAT-5, minimum
    c) RS-485
    d) (I/O Device Port): 1 twisted pair, shielded, 120 ohm impedance, 24 AWG, 4,000 ft. (1,219 m) max.
    e) (Reader Port): 1 twisted pair, shielded, 120 ohm impedance, 24 AWG, 2,000 ft. (610 m) max.
    f) Alarm Input: 1 twisted pair, 30 ohms maximum
14) Product Compliance
    a) UL294 Recognized
    b) FCC Part 15 Class A
    c) CE Compliant
    d) RoHS (2011/65/EU & 2015/863)
    e) EU REACH (1907/2006)
    f) California Proposition 65
    g) NIST Certified Encryption
15) Warranty: Mercury Security warrants the product is free from defects in material and workmanship under normal use and service with proper maintenance for one year from the date of factory shipment.
16) Technical Features
    a) Connectivity: 10/100 Ethernet.
    b) Security:
    c) Host/Controller connection protected by TLS 1.2/1.1 or AES-256/128
    d) Controller/IO Expansion connection protected by AES
    e) Generate and load custom peer certificates for TLS
    f) Port based network access control using 802.1X
    g) Crypto memory chip
    h) FIPS 140-2 user of OpenSSL
    i) HTTPS protection for installer web pages
    j) Secure cookies
    k) SNMPv3/v2c

l) DIP switch toggle sets 5 minute time to disable webpage access
m) Disable default login credentials
n) Authorized IP address filtering
o) IP Client Proxy
p) Bulk erase controller and periphery devices during replacement
q) Strong password enforcement

17) Door Control:
a) Two-reader ports: Clock and Data, Wiegand, or RS-485
b) Eight programmable inputs, four relays, diagnostic LEDs

18) Access Control:
a) 240,000 Cardholder capacity
b) 50,000 Transaction buffer
c) If/Then Macro capability
d) Adjustable cardholder capacity
e) Supports up to 520 inputs and 516 outputs

19) Card Formats:
a) 16 card formats per active reader, 8 per offline reader
b) Entire card number reported on invalid read
c) 19 digit (64-bit) User ID and 15 digit PIN numbers maximum
d) PIV, CAC, TWIC card compatible
e) 255 Access Levels per cardolder
f) Activation/Deactivation Date or Date & Times

20) Card Reader Functions
a) Multiple card format support by reader
b) Paired reader support
c) Alternate reader support
d) Elevator support
e) Turnstile support
f) Biometric device support
g) Open Supervised Device Protocol (OSDP) and OSDP SC compliant
h) Occupancy count
i) Support of multi-occupancy rules
j) Anti-passback support
k) Area-based, reader-based, or time based
l) Nested area, hard, soft, or timed forgiveness

21) Supports host-based approval rules
22) Keypad support with programmable user commands, card input
23) Shunt relay support
24) Strike follower relay support
25) Threat level and Operating Modes
26) Host controlled OSDP reader passthrough
27) Elevator floor override
28) Database Functions
a) Encrypted database
b) Configurable card database
c) Supports up to nineteen (19) digit card numbers
d) Supports pin codes up to fifteen (15) digits
e) Card issue code of up to 32 bits, ADA and VIP flags; PIV (75 bits); Smart Card (200 bits)
f) Ability to track people and objects

29) Intrusion Alarm Functions
a) Supports entry delays and exit delays
b) Area monitoring
c) Standard alarm masking
d) Provides control and alarm processing from the keypad

30) Supported Integrations

a) Regional I/O shares I/O status
b) Wireless locks
c) Map Power Supply Alarms and Events using PSIA
d) Reader firmware and configuration download
e) Supports 1 total RS-485 I/O protocols

31) System Functions
a) Relay count activations
b) Interoperability with older host software using Legacy Mode feature
c) Synchronize time using NTP

2. Door Control Modules
a. ~~Genetec~~ Mercury Intelligent Controller with Mercury MR52 2-Reader interface module
1) For use in low voltage, Class 2 circuits only.
2) Power Input PoE (12.95 W), compliant to IEEE 802.3af orPoE+ (25 W), compliant to IEEE 802.3at or 12 Vdc +/-10 %, 1.7 A maximum
3) Power Output PoE: Readers and Lock, combined: 12 Vdc @ .66 A maximum, PoE+ or 12 Vdc: Lock 12 Vdc @ 1 A maximum, RVO, Readers 12 Vdc @ .5 A maximum
4) Output: Four relays, Form-C contacts rated at 2 A @ 30 Vdc
5) Inputs: Six unsupervised/supervised, End of Line resistors, 1k/1k ohm, 1%, ¼ watt standard
6) Reader Interface Power: 12 Vdc @ .5 A maximum
7) Communication: 2-Wire RS-485, OSDP protocol, four devices maximum
8) Cable Requirements: Communication: Ethernet, CAT-6, minimum
9) External Input Power: 1 twisted pair, 18 AWG (if required)
10) Alarm Inputs: 1 twisted pair per input, 30 ohm maximum
11) Relay Outputs: As required for the load
12) Reader Data RS-485/power: 2 twisted pair with shield, 24 AWG, 120 ohm impedance 4000 foot (1220 m) maximum. or RS-485: 1 twisted pair with shield, 24 AWG, 120 ohm impedance, 4000 foot (1220 m) maximum and Power: 1 pair 18 AWG* * Type of cable(s) and gauge determined by length and voltage/current requirements. Local power source may be required
13) Environmental
14) Temperature
15) -55 to +85 C, storage
16) 0 to +70 C, operating
17) Humidity: 5 to 95 % RHNC
18) Mechanical
19) Dimension
20) 5.5 in. (140 mm) W x 2.75 in. (70 mm) L x 0.96 in. (24 mm) H without bracket
21) 5.5 in. (140 mm) W x 3.63 in. (92 mm) L x 1.33 in. (34 mm) H with bracket
22) Weight: 4 oz. (112 g) without bracket 5 oz. (142 g) with bracket
23) Product Compliance
24) UL294 Recognized. For UL, the Power Sourcing Equipment (PSE) such as a PoE/PoE+ enabled network switch and/or PoE/PoE+ power injectors must be UL Listed under UL294B.
25) FCC Part 15 Class A
26) CE Compliant
27) ROHS
28) NIST Certified Encryption

3. I/O Modules: AC-MER-CON-MR16IN and OUT
4. SDC kit for lock – Furnished by Hardware, installed by Access Control Contractor. Similar to Sargent LR100SGK
5. Dual Contact Door Contacts – SPDT – Interlogix GE 1076C-XXX Series with 1840-N rare earth magnet - Reports to access control and security systems.

6. Interface to ~~Honeywell~~ Security Panel
7. Proximity Readers
   a. ~~Other Doors –Multiclass SE. RP40 (or RP15 if necessary and approved)~~ HID RPK40 Multiclass SE Proximity Reader/Keypad
   b. ~~Bluetooth support~~HID iClass SE U90 Long Range Reader
   ~~c. 125 kHz contactless cards supported~~
   ~~d. HID Prox®, Indala® Prox, Dorado® Prox, and EM Prox legacy contactless credentials~~
   ~~e. 13.56 MHz contactless smart cards supported~~
   ~~f. iCLASS Seos® , iCLASS SE, iCLASS®, MIFARE® Classic, and MIFARE DESFire®EV1~~
   ~~g. Provide Bluetooth and NFC. OSDP communication will be used on the MR62E and will connect via Bluetooth via HID app. Provide mobile ready with Bluetooth to comply~~
   ~~h. Protocol~~
      ~~1) Open Supervised Device Protocol (OSDP) mode~~
8. Request to Exit – On electronic Latch Retraction with built in device – connect device to system. Other locations: Securitron XMS motion detector or Kantech T-REX-XL.
9. FOBS/Cards: Provide 500 School District standard proximity fobs/cards with this project. Order with code provided from school district
10. Electric Locks: Coordinate with hardware specification. Provide all power supplies for latch retraction devices and magnetic locks. Electric strikes are powered from POE controller.
11. ADA Relay Adaptor: Spaceage SSU-PAM-4. ADA Doors: Provide relays required to interface to ADA automatic door systems.
12. Panic Button: In Main office for lockdown: STI#SS2239LD-EN
13. Door Release Button: Desk mounted, green with plate. STI#UB/LTUL – Green push to exit button
14. Power Supplies: Lifesafety Power FP0150 or Altronix AL4000. Coordinate with the hardware contractor and provide power for all locks connected to the system. Locate power supplies at access control junction boxes and run power cabling to all doors. All shall be POE unless not possible. Battery backup for all power supplies. Minimum 25% spare battery capacity.

C. Cabling:
   1. Network and Power cable are provided under 271500.
   2. Power cable provided in 271500 is to be 4 conductor#18. Access control contractor shall confirm this cable, provide voltage drop calculations for all doors.
   3. All other cabling (Card Reader, REX, Key Switch, etc.) is provided under this section and is generally #18 or as required by the manufacturer. Provide plenum rated open cable whenever in a plenum.

D. Data Switches
   1. POE switches will be provided by the owner. Contractor shall plug into ports directed by the owner.
   2. Contractor shall provide any additional patch cords require. See 271500 for patch cords provided by the data contractor
   3. System shall be fully connected and operational

E. SMS Third-party Devices: The SMS shall interface with select devices from the following manufacturers:
   1. Bosch Intrusion Detection System

F. Cabling:
   1. Network and Power supply cabling included in 271500
   2. Banana peel cabling from controller to door switch, card reader, lock, REX provide in this specification as directed by the manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of electronic security system.

B. Examine rough-in for embedded and built-in anchors to verify actual locations of intrusion detection connections before electronic security system installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 SYSTEM INTEGRATION

A. Integrate electronic security system with the following systems and equipment:
1. Electronic door hardware.
2. Security system.

3.3 PROGRAMMING

A. Programming system configuration parameters shall be as directed by the owner. The contractor shall attend a meeting and review the entire system with the owner and program as directed. The programming parameters shall be written by the contractor and approved by the owner or the system is not considered programmed to the owner's needs. After 3 months return to the site and adjust all programming as directed by the owner.

3.4 INSTALLATION

A. Install electronic security system in accordance with manufacturer' written instructions.

B. Wiring Method: Install wiring in metal raceways in exposed areas and above non-accessible ceilings. Conceal raceway except in unfinished spaces and as indicated. Minimum conduit size shall be 3/4-inch. Control and data transmission wiring shall not share conduit with other building wiring systems. Cable, concealed in accessible ceilings, walls, and floors when possible.

C. Installer shall fully program the existing district system at the district office to accommodate all new devices and cards on this project. Program all cards as directed by the district.

D. Integrate system to the Honeywell Vista security panel. The interior access control card readers shall deactivate the security system and rearm the system.

3.5 TRAINING

A. Provide complete training systems to building users and as well as district maintenance staff. Contractor shall provide 1 training session of 2 hours to building user and 1 sessions of 4 hours each to maintenance personnel. Record all sessions and deliver 3 copies of training sessions to the owner.

END OF SECTION 28 13 00

SECTION 28 23 00 – VIDEO SURVEILLANCE SYSTEM

PART 1 - GENERAL

1.1 SCOPE

A. Provide complete and comprehensive IP MEGAPIXEL CCTV System for surveillance of selected areas inside and outside of the building as shown on drawings.

B. This contract shall include amplification, expansion to ~~Milestone Enterprise~~Omnicast Software and all camera licenses and firmware updates, controllers, and power supplies required to connect all devices

C. Specification includes Mega-Pixel cameras.

1.2 WORK INCLUDED

A. The work includes all necessary labor, installation, preparation, materials, equipment, services, and other items required, whether specified or not, to provide a complete and fully operational CCTV System.

B. The work requires installation of cabling, video cameras, heaters, splitters, servers, housings, supports and monitors, power patch panels, and data switches.

1.3 COMPANY QUALIFICATIONS

A. The bidder shall be regularly engaged in the type of work specified herein. Award will be made only to a bidder who furnished satisfactory evidence that he has the technical ability, experience, equipment, personnel, and financial resources to enable him to successfully and promptly fulfill the requirements and conditions of these specifications. Bidder must have 5 years experience in installing similar systems.

PART 2 - PRODUCTS

2.1 CAMERAS

A. General Cameras – Indoor and Outdoor
1. ~~Image sensor AXIS P3367/ V/ VE Progressive scan~~Sony XM632 Outdoor 1080p Mini-Dome Camera D/N, IP66
2. RGB CMOS 1/3.2”
3. Lens Varifocal remote zoom and focus, IR corrected, megapixel resolution
4. 3-9 mm, 84-30 view, F1.2
5. Day and night Automatically removable infrared-cut filter
6. Minimumillumination
7. Color: 0.2 lux, F1.2, B/W: 0.04 lux, F1.2
8. Shutter time: 1/28000 s to 2 s
9. Pan/Tilt/Zoom Digital PTZ, preset positions, guard tour
10. Camera angle adjustment: Pan 360°, tilt 160°, rotation 340°
11. Videocompression
    a. H.264 (MPEG-4 Part 10/AVC)
    b. Motion JPEG
12. Resolutions
    a. 2592 x 1944 – 5 Megapixel
13. Frame rate
    a. 5 MP Capture mode, 12 fps in all resolutions.
14. Video streaming Multiple, individually configurable streams, H.264 and Motion JPEG. Controllable frame rate and bandwidth
15. VBR/CBR H.264
16. Multi-view streaming:
17. Audio streaming Two-way

18. Audio compression
    a. AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz . Configurable bit rate
19. Audio input/output: External microphone input or line input, line output
20. Security Password protection, IP address filtering, digest authentication,user access log, IEEE 802.1X** network access control, HTTPS** encryption
21. Supported protocols
    a. IPv4/v6, HTTP, HTTPS**, QoS Layer 3 DiffServ, FTP, SMTP, Bonjour,
    b. UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP,
    c. UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS
22. System integration
    a. Application Programming Interface: Open API for software integration, including the ONVIF specification available at www.onvif.org, as well as VAPIX® and AXIS Camera Application Platform from Axis Communications, specifications available at www.axis.com Support for AXIS Video Hosting System (AVHS) with One-Click
23. Camera connection
    a. Intelligent video Video motion detection, active tampering alarm, audio detection
    b. Support for ~~AXIS~~ Sony Camera Application Platform enabling
    c. installation of additional applications
    d. Events Intelligent video, external input
    e. Alarm actions File upload via FTP, HTTP and email
    f. Notification via email, HTTP and TCP
    g. External output activation
    h. Video and audio recording to edge storage
    i. Pre- and post-alarm video buffering
    j. Installation aids in software

B. Mounts
    1. Wall Mount
    2. Ceiling Mount
    3. Corner Mount
    4. Pendant Mount

~~C. Parking Cameras~~
~~1. Arecont AV12366DN, 12 Megapixel~~
~~2. Key Features~~
~~3. Dual Encoder H.264/MJPEG~~
~~4. Indoor/Outdoor IP66, Vandal Resistant and IK-10 Rated Dome~~
~~5. Reduced Overall System Cost~~
~~6. Easily Adjustable 2-Axis Camera Gimbal with 360° Pan and 90° Tilt~~
~~7. +/- 5 ° Electrical Vertical Alignment to Locate Each Sensor Position~~
~~8. Bit Rate Control, Privacy Mask and Multi-Streaming~~
~~9. Forensic Zooming~~
~~10. PoE and Auxiliary Power: 12-48V DC/24V AC~~
~~11. Complete Mounting Options~~
~~12. Industry's First 12MP WDR Panoramic Megapixel Cameras~~
~~13. True WDR up to 100dB at Full Resolution: See Clearly in Shaded and Bright Light Conditions Simultaneously~~
~~14. Forensic Zooming - Zoom Live or After the Event While Recording Full Field-of-View HD - Replace PTZ Devices~~
~~15. Binning Mode for Strong Low-light Performance~~
~~16. Bit Rate Control and Multi-Streaming~~
~~17. True Day/Night Functionality with Electro-Mechanical IR Cut Filter~~
~~18. Outdoor Rated IP66 and IK-10 Impact-Resistant Housing~~
~~19. Total PoE Solution (No External Power Required)~~
~~20. PoE and Auxiliary Power: 12-48V DC/24V AC~~
~~21. Easily Adjustable 2-Axis Camera Gimbal with 360° Pan and 90° Tilt~~
~~22. +/-5° Electrical Vertical Alignment to Locate Each Sensor Position (180° Models Only)~~
~~23. +/-7° Mechanical Tilt Adjustment to Locate Each Each Sensor Andle (360° Models)~~

~~24. Complete Mounting Options~~
~~25. Dual Encoder H.264/MJPEG~~
~~26. Privacy Mask, Motion Detection, Flexible Cropping, Bit Rate Control and Multi-Streaming~~
~~27. Fast Frame Rates 5.2fps @ 12MP~~
~~28. Made in the USA~~
~~29. Pole Mount~~

2.2 CENTRAL VIDEO SERVER – By Owner. Install software on central video server.

2.3 SOFTWARE

A. Provide a complete and fully functional ~~Milestone Enterprise~~Omnicast Server software package for this site and all camera licenses.

2.4 BACKUP POWER

A. Provide UPS to maintain system on for a minimum of 15 minutes on power outage. Liebert UPStation GXT2

2.5 WIRING AND CABLING

A. Provide CAT 6 cable to each camera location.

B. See Section 271500.

2.6 SWITCHES

A. Owner will provide POE switches for the system. Contractor shall assist the Owner in setup, programming, subnets, POE, and queueing of the switches.

PART 3 - EXECUTION

3.1 CABLE SUPPORTS

A. Cable shall be in raceway when underground, exposed, above non-accessible ceilings or supported at 4'O.C. by bridle rings or J-hooks where above accessible ceilings. Velcro wrap cable to perform a neat and professional installation. Cable tye wraps shall be loose to provide no strain on cables. CCTV cables are not to be routed in same J-hooks, bridle rings or conduit with any other system.

3.2 CABLE ROUTING

A. All shall be routed to prevent interference with any systems such as access boxes, ventilation mixing boxes, access hatches to air filters, switch panels, fire alarm equipment, clock systems, lighting fixtures, etc. The routing must not interfere with any other service or system, operation or maintenance. Raceway shall not be placed in close contact with other devices, electrical or otherwise, that will interfere with it's proper operation as a transmitter of video signal. CCTV cables are not to be routed in same J-hooks, bridle rings or conduit with any other system. The contractor will be responsible for rerouting any raceway that is not acceptable to the Engineer at no cost.

3.3 CAMERA AIMING AND PROGRAMMING

A. Aim and zoom each fixed cameras as directed by owner/Engineer in field. Allow for One initial aim of each camera and one re-aim of each camera as directed 1 week after school starts at direction of owner. Schedule aiming one week prior to allow for scheduling of personnel.

B. Program frames per second and quality of Server recording per Owner/Engineer as directed in field. Submit recommended settings for approval.

C. Program DVR to interface with access control system (program a virtual button for each door with a door intercom for user to pick button will unlock door.)

3.4 CAMERA MOUNTING

A. Mount cameras and power supplies per manufactures recommendations.

B. Seal all building mountings and penetrations with a single part non sag urethane elastameric selant. Bases of design Sikaflex 15LM.

C. Provide backing for all building mounting locations to support work. Coordinate locations and mounting details with architectural drawings.

3.5 TESTING

A. At completion of installation, perform complete operational test and make adjustments as required.

3.6 LABELING

A. The SYSTEM shall be permanently labeled with scheme directed by the owner. Submittals shall include the proposed label scheme for owner review. Owner will make changes to the label scheme during the submittal process.

3.7 TRAINING

A. The manufacturer shall provide complete training on the system as follows:
   1. Provide 3 – 4 hour training sessions to owner designated personnel
   2. Videotape all training with a professional grade camcorder. Deliver 3 copies of training to owner in either DVD or on a zip drive

B. All training sessions must be scheduled with the owner's on site representative and signed off as complete by the owner's representative. If this session is not signed off it shall be repeated.

C. Provide site specific operation instructions laminated and attached to CCTV head end rack for system use instructions shall include but not be limited to:
   1. Program tour on Server and on camera
   2. Record CD rom for evidence purposes
   3. Review of recorded information
   4. Zoom and pan
   5. Set program.

3.8 MAINTENANCE AND EXTENDED SERVICE

A. Manufacturer shall provide on site equipment testing for 6 hours within ~~Fire Station 51~~building. The person shall arrive 2 hours prior to the testing, meet with the owner and confirm all systems are up and operational.

B. The manufacturer shall return to the site within the 1 year warranty period and review the system setup with the owner. At that time the owner will direct any changes to the system and the manufacturer shall re-aim, refocus, and reprogram the system.

END OF SECTION 28 23 00

SUBSTITUTION REQUEST
(During the Bidding/Negotiating Phase)

PROJECT: South King Fire Administrative Building Improvements

SUBSTITUTION REQUEST NUMBER: 1

FROM: Denzel Northwest

TO: Weinstein A+U

DATE: 5/12/25

A/E PROJECT NUMBER: 24022

RE: CertainTeed Panelized Linear WD-1

CONTRACT FOR:

SPECIFICATION TITLE: 9Wood Panelized Linear 2100

DESCRIPTION: Panelized Linear Wood Ceilings WD-1

SECTION: 09 54 26

PAGE: 2

ARTICLE/PARAGRAPH: 2.2

PROPOSED SUBSTITUTUION: CertainTeed Wood Panelized Linear

MANUFACTURER: CertainTeed Saint-Gobain

ADDRESS: 20 Moores Rd Malvern, PA 19355

PHONE: (800) 233-8990

TRADE NAME:

MODEL NO.:

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.
Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:
- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

SUBMITTED BY: Jen Shipley

SIGNED BY: Daana Denzel Daana Denzel

FIRM: Denzel Northwest

ADDRESS: 2415 82nd Ave NE, Medina, WA 98039

TELEPHONE: (206) 900-3675

A/E's REVIEW AND RECOMMENDATION:

- [x] Approve Substitution—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- [ ] Approve Substitution as noted—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- [ ] Reject Substitution—Use specified materials.
- [ ] Substitution Request received too late—Use specified materials.

SIGNED BY:

DATE: 5/22/25

SUPPORTING DATA ATTACHED: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

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Denzel Northwest WBENC

Substitution Product Comparison

Project: South King Fire Administrative Building Improvements	**Date:** 5/21/25
Architect: Weinstein A+U	

Basis of Specification: 9Wood 2100 Panelized Linear

Section: 09 54 26		**Paragraph:** 2.2

The undersigned requests approval by the following product comparison.

Specified		Substitution	
Product	9Wood Panelized Linear 2100	**Product**	CertainTeed Wood Panelized Linear
Mfg. By	9Wood	**Mfg. By**	CertainTeed by Saint-Gobain
Assembly Style	Panelized Linear	**Assembly Style**	Panelized Linear
Composition	Solid Wood	**Composition**	Solid Wood
Species	Western Hemlock	**Species**	Western Hemlock
Edge Profile	Square	**Edge Profile**	Square
Size	5 ¼" x ¾"	**Size**	5 ¼" x ¾"
Board Length	8'	**Board Length**	8'
Blades per LF	2	**Blades per LF**	2
Reveal	¾"	**Reveal**	¾"
Finish	Clear Satin Sheen	**Finish**	Clear Satin Sheen *Custom finishes available which may not be reflected on the datasheet*
NRC	0.50 *With a 1.5" fiberglass acoustical backer*	**NRC**	0.60 *With a 1" fiberglass acoustical backer*
Acoustical Backer	1" Fiberglass Acoustical Backer *Options include Rockfon Cinema Black and CerainTeed Theater Black f, architect's choice*	**Acoustical Backer**	1" Fiberglass Acoustical Backer *Options include Rockfon Cinema Black and CertainTeed Theater Black f, architect's choice*
Fire Class	*	**Fire Class**	B*
PEFC Chain of Custody Certified	Yes	**PEFC Chain of Custody Certified**	Yes
Warranty	One (1) year limited warranty	**Warranty**	One (1) year limited warranty
Dimensional Stability	Standard	**Dimensional Stability**	Standard

***Fire Class:** Solid wood is not naturally rated fire class A. CertainTeed uses the natural state of the wood to determine the fire class. Other manufacturers apply fire retardant chemicals to the wood claiming to increase the fire class.

Deviations From Specified Item: None in technical function, form or quality, nor in design criteria as compared to products specified. Terminology may vary with individual product descriptions.

SUBSTITUTION REQUEST
(During the Bidding/Negotiating Phase)

PROJECT: South King Fire Administrative Building Improvements

SUBSTITUTION REQUEST NUMBER: 2

FROM: Denzel Northwest

TO: Weinstein A+U

DATE: 5/14/25

A/E PROJECT NUMBER: 24022

RE: CertainTeed Backer Grille WD-2

CONTRACT FOR:

SPECIFICATION TITLE: 9Wood 1100 Cross Piece Backer

DESCRIPTION: Linear Wood Grille Ceiling WD-2

SECTION: 09 54 26

PAGE: 2

ARTICLE/PARAGRAPH: 2.2

PROPOSED SUBSTITUTUION: CertainTeed Wood Backer Grille Ceiling

MANUFACTURER: CertainTeed Saint-Gobain

ADDRESS: 20 Moores Rd Malvern, PA 19355

PHONE: (800) 233-8990

TRADE NAME:

MODEL NO.:

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.
Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:
- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

SUBMITTED BY: Jen Shipley

SIGNED BY: Daana Denzel *Daana Denzel*

FIRM: Denzel Northwest

ADDRESS: 2415 82nd Ave NE, Medina, WA 98039

TELEPHONE: (206) 900-3675

A/E's REVIEW AND RECOMMENDATION:

- [x] Approve Substitution—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- [ ] Approve Substitution as noted—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- [ ] Reject Substitution—Use specified materials.
- [ ] Substitution Request received too late—Use specified materials.

SIGNED BY:

DATE: 5/22/25

SUPPORTING DATA ATTACHED: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

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Denzel Northwest WBENC

Substitution Product Comparison

Project: South King Fire Administrative Building Improvements	**Date:** 5/22/25
Architect: Weinstein A+U	

Basis of Specification: 9Wood Wood Grille Series 1100 Cross Piece Backer

Section: 09 54 26	**Code**: WD-2	**Paragraph:** 2.2

The undersigned requests approval by the following product comparison.

	Specified		Substitution
Product	9Wood Wood Grille Series 1100 Cross Piece Grille	**Product**	CertainTeed Wood Backer Grille Ceiling
Mfg. By	9Wood	**Mfg. By**	CertainTeed by Saint-Gobain
Assembly Style	Backer Grille	**Assembly Style**	Backer Grille
Composition	Solid Wood	**Composition**	Solid Wood
Species	Western Hemlock	**Species**	Western Hemlock
Size	¾" Width x 1-3/8" Depth	**Size**	¾" Width x 1-3/8" Depth
Blades per LF	8	**Blades per LF**	8
Reveal	¾"	**Reveal**	¾"
Finish	Clear Satin Sheen	**Finish**	Clear Satin Sheen *Custom finishes available which may not be reflected on the datasheet*
Acoustical Backer	1" Fiberglass Acoustical Backer *Options include Rockfon Cinema Black and CerainTeed Theater Black f, architect's choice*	**Acoustical Backer**	1" Fiberglass Acoustical Backer *Options include Rockfon Cinema Black and CertainTeed Theater Black f, architect's choice*
Fire Class	*	**Fire Class**	B*
PEFC Chain of Custody Certified	Yes	**PEFC Chain of Custody Certified**	Yes
Warranty	One (1) year limited warranty	**Warranty**	One (1) year limited warranty

***Fire Class:** Solid wood is not naturally rated fire class A. CertainTeed uses the natural state of the wood to determine the fire class. Other manufacturers apply fire retardant chemicals to the wood claiming to increase the fire class.



Deviations From Specified Item: None in technical function, form or quality, nor in design criteria as compared to products specified. Terminology may vary with individual product descriptions.

SUBSTITUTION REQUEST
(During the Bidding/Negotiating Phase)

PROJECT: South King Fire Admin. Bldg. Improvements

SUBSTITUTION REQUEST NUMBER:

FROM: Ryan Lindquist

TO: Lauren Rock <laurenr@weinsteinau.com>

DATE: 05/15/2025

A/E PROJECT NUMBER:

RE:

CONTRACT FOR:

SPECIFICATION TITLE: Suspended Wood Ceilings

DESCRIPTION: Linear Wood Ceiling Grilles

SECTION: 095426 **PAGE:** 2 **ARTICLE/PARAGRAPH:** 2.2

PROPOSED SUBSTITUTUION: Geopanel Grille and Geopanel Linear

MANUFACTURER: Geometrik **ADDRESS:** 1449 Velocity St. Kel. BC CA **PHONE:** 778 988 5685

TRADE NAME: N/A **MODEL NO.:** See side by sides

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.
Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:
- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

SUBMITTED BY: Ryan Lindquist

SIGNED BY:

FIRM: Geometrik Manufacturing

ADDRESS: 1449 Velocity Street Kelowna BC - V1V 3C2

TELEPHONE: 778 988 5685

A/E's REVIEW AND RECOMMENDATION:

- [X] Approve Substitution—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- [ ] Approve Substitution as noted—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- [ ] Reject Substitution—Use specified materials.
- [ ] Substitution Request received too late—Use specified materials.

SIGNED BY: **DATE:** 5/22/25

SUPPORTING DATA ATTACHED: [X] Drawings [X] Product Data [ ] Samples [ ] Tests [ ] Reports [ ] To Come

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SUBSTITUTION REQUEST
(During the Bidding/Negotiating Phase)

PROJECT: South King Fire- Administrative
Building Improvements

SUBSTITUTION REQUEST NUMBER:

FROM: South Sound Systems, LLC.

TO: Weinstein A+U Architects
TFWB Engineers

DATE: 5/16/25

A/E PROJECT NUMBER: 24022

RE: Lauren Rock/ Kevin Wartelle

CONTRACT FOR:

SPECIFICATION TITLE: Data & Telephone Cabling System

DESCRIPTION: Manufacture

SECTION: 271500 **PAGE:** 1 **ARTICLE/PARAGRAPH:** 2.1

PROPOSED SUBSTITUTUION: Ortronics/ Superior Essex

MANUFACTURER: Legrand **ADDRESS:** 809 W Main St; Monroe **PHONE:** 360-794-6364

TRADE NAME: nCompass Solution **MODEL NO.:**

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.
Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:
- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

SUBMITTED BY: Wes Hillman

SIGNED BY: Wes Hillman

FIRM: South Sound Systems, LLC.

ADDRESS: PO Box 5759; Lacey ,WA 98509

TELEPHONE: 360-515-5151

A/E's REVIEW AND RECOMMENDATION:

- [x] Approve Substitution—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- [ ] Approve Substitution as noted—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- [ ] Reject Substitution—Use specified materials.
- [ ] Substitution Request received too late—Use specified materials.

SIGNED BY: Kevin Wartelle TFWB Engineers **DATE:** 5/23/25

SUPPORTING DATA ATTACHED: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

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SUBSTITUTION REQUEST
(During the Bidding/Negotiating Phase)

PROJECT: South King Fire Administrative Building Improvements

SUBSTITUTION REQUEST NUMBER:

FROM: Christina Erickson/United Sales NW

TO: South King Fire & Rescue Station 62

DATE: 5/9/25

A/E PROJECT NUMBER: 24022

RE:

CONTRACT FOR:

SPECIFICATION TITLE: TOILET AND BATH ACCESSORIES

DESCRIPTION: public washroom accessories

SECTION: 102800

PAGE: 1-3

ARTICLE/PARAGRAPH: 2.1

PROPOSED SUBSTITUTUION: American Specialties, Inc

MANUFACTURER: ASI Group

ADDRESS: 441 Saw Mill River Road Yonkers, NY 10701-4913

PHONE: 914.476.9000

TRADE NAME: American Specialties, Inc

MODEL NO.: please see attached

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.
Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

SUBMITTED BY: Christina Erickson

SIGNED BY: Christina Erickson Digitally signed by Christina Erickson DN: C=US, E=christina@unitedsalesnw.com, CN=Christina Erickson Date: 2025.05.09 14:06:14-07'00'

FIRM: United Sales NW

ADDRESS: 1605 Columbia St Suite 100 Vancouver, WA 98660

TELEPHONE: 360-524-6040

A/E's REVIEW AND RECOMMENDATION:

- ☐ Approve Substitution—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- ☐ Approve Substitution as noted—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- ☒ Reject Substitution—Use specified materials.
- ☐ Substitution Request received too late—Use specified materials.

SIGNED BY: **DATE:** 5/22/25

SUPPORTING DATA ATTACHED: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

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SUBSTITUTION REQUEST
(During the Bidding/Negotiating Phase)

PROJECT: South King Fire Administrative Building Improvements

SUBSTITUTION REQUEST NUMBER:

FROM: Christina Erickson/United Sales NW

TO: South King Fire & Rescue Station 62

DATE: 5/9/25

A/E PROJECT NUMBER: 24022

RE:

CONTRACT FOR:

SPECIFICATION TITLE: Toilet Compartments

DESCRIPTION:

SECTION: 10 21 13 **PAGE:** 2 **ARTICLE/PARAGRAPH:** 2.1

PROPOSED SUBSTITUTUION: ASI Global Partitions & ASI Accurate Partitions

MANUFACTURER: ASI Group **ADDRESS:** 900 Clary Connector Eastanollee, Georgia 30538 **PHONE:** 706.827.2700

TRADE NAME: ASI Global Partitions & ASI Accurate Partitions **MODEL NO.:** please see attached

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.
Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:
- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

SUBMITTED BY: Christina Erickson

SIGNED BY: Christina Erickson Digitally signed by Christina Erickson DN: C=US, E=christina@unitedsalesnw.com, CN=Christina Erickson Date: 2025.05.09 14:01:31-07'00'

FIRM: United Sales NW

ADDRESS: 1605 Columbia St Suite 100 Vancouver, WA 98660

TELEPHONE: 360-524-6040

A/E's REVIEW AND RECOMMENDATION:

- ☐ Approve Substitution—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- ☐ Approve Substitution as noted—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- ☒ Reject Substitution—Use specified materials.
- ☐ Substitution Request received too late—Use specified materials.

SIGNED BY: **DATE:** 5/22/25

SUPPORTING DATA ATTACHED: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐

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