South King Fire and Rescue

Station 64 Facility Improvements

ADDENDUM #1

March 14, 2018

TO ALL BIDDERS:

The Bid Documents issued **February 23, 2018** for the project noted above are amended by this Addendum #1.

Receipt of this addendum shall be acknowledged by inserting its number in the space provided on the bid form.

PROJECT MANUAL ITEMS

ITEM 1. Section 000110 TABLE OF CONTENTS:
   a. ADD section 22 1500 General Service Compressed Air Systems.

ITEM 2. Section 075419 THERMOPLASTIC MEMBRANE ROOFING:
   a. Section 1.02, ADD on a new line after "13. Sealants" to read "14. Fall Protection Anchors"
   b. ADD Section 2.12 FALL PROTECTION ANCHOR:
      i. Basis-of-Design: Super Anchor; CRA #1032.

ITEM 3. Section 051200 STRUCTURAL STEEL FRAMING:
   a. Section 1.7, REVISE item A to read as follows: "Fabricator Qualifications: Special inspection of the fabricated items shall be performed during fabrication as required per the 2015 IBC Section 1704.2.5. All shop and field welds shall be inspected as required per contract documents."

ITEM 4. Section 087100 DOOR HARDWARE:
   a. Section 2.2, REVISE the manufacturer for cylinders from "(BES) Best" to read "(SCH) Schlage".
   b. Section 3.8, HW SET 2, REVISE "3 EA HINGE" to read "6 EA HINGE".
   c. Section 3.8, HW SET 2, REVISE "ND80PD" to read "ND80RD".
   d. Section 3.8, HW SET 2, DELETE "1 EA SURFACE CLOSER 1461 EDA".

ITEM 5. ADD Section "102600 WALL AND DOOR PROTECTION".

ITEM 6. ADD Section "28 13 00 ACCESS CONTROL SYSTEM".

ITEM 7. ADD Section "28 23 00 CCTV SYSTEM".

ITEM 8. Section 26 32 13.16 Emergency Generator:
   a. Paragraph 1.2A – REVISE the word 'Kohler" to read "Onan".
   b. Paragraph C – REVISE to read "Onan is the only Approved Manufacturer. No Substitutions allowed per the Owner for maintenance reasons."

DRAWINGS

ARCHITECTURAL

ITEM 9. A00.01 See clouded revisions on attached drawing.
ITEM 10. A01.01 See clouded revisions on attached drawing.
ITEM 11. A10.01 See clouded revisions on attached drawing.
ITEM 12. A21.01 See clouded revisions on attached drawing.
ITEM 13. A21.03 See clouded revisions on attached drawing.
ITEM 14. A21.04 See clouded revisions on attached drawing.
ITEM 15. A21.11 See clouded revisions on attached drawing.
ITEM 16. A21.12 See clouded revisions on attached drawing.
ITEM 17. A22.02 See clouded revisions on attached drawing.
ITEM 18. A23.01 See clouded revisions on attached drawing.
ITEM 19. A31.01 See clouded revisions on attached drawing.
ITEM 20. A35.01 See clouded revisions on attached drawing.
ITEM 21. A35.02 See clouded revisions on attached drawing.
ITEM 22. A71.01 See clouded revisions on attached drawing.

ELECTRICAL

ITEM 23. E-001 – Electrical Legend
- b. Communication Outlet Symbol – REVISE the 2nd sentence to read: "Homerun cables to Room 211 telecom backboard."

ITEM 24. ED131 – Electrical First Floor Power & Systems Demo Plan
- a. ADD the following note to the existing generator: "Turn the generator over to the Owner."
- b. ADD the following note to the entry vestibule: "E.C. to remove the existing surface mount fire alarm panel and the existing recessed fire alarm panel behind it along with all abandoned wiring."

ITEM 25. E-101 – Electrical Site Plan
- a. ADD a fog-tite type 2 handhole with galvanized lid and interior dividing plate in the landscape area east of the existing fuel tank. PROVIDE (2) 1-1/2" conduits from the hand hole to Room 127. Route conduits up the exterior of the building to 8'-0" above grade and LB through the wall and into the building. PROVIDE core drilling through exterior wall. Label conduits "Fuel Island".

ITEM 26. E-131 – Electrical First Floor Power & Systems Plan
- a. Rooms 106, 107, 115, 116, 117, 118, 129 & 221 – REVISE the communication symbol to be (1) Category 6 data jack in lieu of (2).
- b. Rooms 106, 107, 115, 116, 117, 118, 129 & 221 – DELETE the television outlet symbol.
- c. Rooms 106, 107, 115, 116, 117, 118, 129 & 221 – DELETE the ceiling speakers.
- d. Rooms 106, 107, 115, 116, 117, 118, 129 & 221 – ADD the following note to each

volume control station: "Provide connection to existing ceiling speakers for control."

ITEM 27. E-230 SYSTEMS LEGEND

a. REMOVE "ELD" EMERGENCY LOCKDOWN BUTTON from LEGEND
b. ADD the following to ELECTRIC STRIKE – SEE DOOR HARDWARE SCHEDULE FOR DEVICE USED.
c. ADD the following to ELECTRIC LOCK - SEE DOOR HARDWARE SCHEDULE FOR DEVICE USED.
d. ADD the following to ELECTRIFIED EXIT DEVICE - SEE DOOR HARDWARE SCHEDULE FOR DEVICE USED.

ITEM 28. E-231 FIRST FLOOR ACCESS CONTROL/CCTV PLAN

a. REVISE DRAWING SHEET to show new camera location and additional door locations for access control system.
b. REVISE CONSTRUCTION NOTES to add new camera locations and additional door locations for access control system information.

ITEM 29. E-233 ACCESS CONTROL/CCTV DETAILS

a. REMOVE "ACCESS CONTORL GENERAL NOTE #4".
b. REMOVE "DETAIL #4 CARD READER INTRUSON ALARM DIABLE DETAIL".
c. REMOVE "ACCESS CONTOROL CONSTRUCION NOTE #13".

ITEM 30. FA002 – Fire Alarm System Riser Diagram

a. ADD the following note to the fire alarm control panel, power supply and AES wireless transceiver: "Recess mount in existing wall. Coordinate with the GC for cutting and patching."

ITEM 31. FA-002 – Fire Alarm System Riser Diagram

a. DELETE the connection to the PIV (Post Indicator Valve). There is not one on this site.

SUBSTITUTION REQUESTS

ITEM 32. Section 095123

c. Rejected

ITEM 33. Electrical Substitution Requests

Approval applies to manufacturer only and does not relieve the Contractor/Supplier from the responsibility of meeting all applicable requirements of the Plans and Specifications.

The following representatives and manufacturers have further agreed upon the following:

Approval applies to manufacturer only and does not relieve the Contractor/Supplier from the responsibility of meeting all applicable requirements of the Plans and Specifications.

The following representatives and manufacturers have further agreed upon the following:

1. The proposed substitution does not affect dimensions shown on drawings.
2. The undersigned will pay for changes to the building design, including engineering design, detailing and construction costs caused by the requested substitution.

3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements.
4. Maintenance and service parts will be locally available for the proposed substitution.
5. The proposed substitution will have no effect on applicable codes.
6. The manufacturer's guarantees or warranties of proposed product are equivalent to, or exceed, that of the specified product.

Specification Section	Product	Proposed Substitution	Comment
26 5000	Lighting – EX1	Sure-Lites, Isolite	APPROVED
26 5000	Lighting – AL1	McGraw-Edison, Hubbell Lighting Outdoor	APPROVED
26 5000	Lighting – SL1/SL1E	Metalux, Columbia Lighting	APPROVED
26 5000	Lighting – PL1, PL1E	Metalux, Primus Lighting	APPROVED
26 5000	Lighting – PL2, PL2E	Metalux, Primus Lighting	APPROVED
26 5000	Lighting – WL1	McGraw-Edison, Hubblell Lighting Outdoor	APPROVED
26 5000	Lighting – RL1/RL1E		APPROVED
26 5000	Lighting – RL2		APPROVED
26 5000	Lighting – RL3/RL3E	Metalux, Litecontrol	APPROVED
26 5000	Lighting – RL5	Halo	APPROVED
26 5000	Lighting – UC1, UC1	Halo, Primus Lighting	APPROVED
26 0923	Network Digital Lighting Control	Hubbell	APPROVED
26 0923	Network Digital Lighting Control	WattStopper	NOT APPROVED

ATTACHMENTS

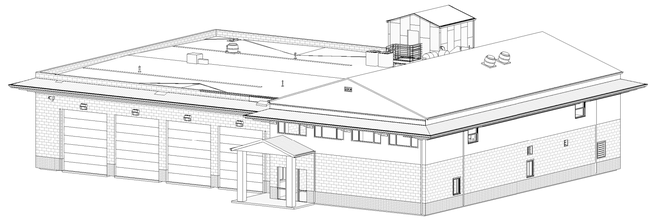
1. REVISED Architectural Drawings; 14 pages.
2. REVISED Electrical Drawings; 3 pages.
3. ADD Specification Section 102600; 2 pages.
4. ADD Specification Section 281300; 9 pages.
5. ADD Specification Section 282300; 7 pages.
6. Rejected Section 095123 Substitution Forms; 3 pages.
7. Pre-Bid Walkthrough Sign in sheet; 2 pages.

END OF ADDENDUM #1

SOUTH KING FIRE & RESCUE

FACILITY IMPROVEMENTS

STATION 64



EXISTING BUILDING:
THE EXISTING BUILDING IS A 2-STOREY, ACTIVE FIRE STATION. THE BUILDING IS FULLY SPRINKLED.

PROPOSED SCOPE OF WORK:
INTERIOR:
- SELECTIVE DEMOLITION OF INTERIOR BUILDING ELEMENTS.
- NEW NON-BEARING INTERIOR WALLS
- SEISMIC UPGRADES
- INCIDENTAL WORK AND IMPROVEMENT TO THE MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS
- INSTALLATION OF NEW CASEWORK AND FINISHES
- ALTERATIONS REQUIRED FOR THE SPRINKLER SYSTEM SHALL BE SUBMITTED BY FIRE SPRINKLER CONTRACTOR.

EXTERIOR:
- SELECTIVE DEMOLITION AND RECONFIGURATION OF A CONCRETE CURB
- REMOVAL AND REPLACEMENT OF AN EXISTING GENERATOR.
- ROOF REPLACEMENT
- NEW CLADDING ON A PORTION OF THE REAR OF BUILDING FOR THE ADDITION OF INSULATION AND WATER INTRUSION.
- CONSTRUCTION OF A NEW CHAINLINK FENCE AND MOTOR OPERATED VEHICLE CHAINLINK GATES AND ASSOCIATED WORK.
- REPLACEMENT OF EXISTING SITE LIGHTING IN KIND AND QUANTITY.

3 PROJECT DESCRIPTION

OWNER:

SOUTH KING FIRE & RESCUE
31617 1ST AVENUE
FEDERAL WAY, WASHINGTON 98003
PHONE: 253-927-3118

ARCHITECT:

RICE FERGUS MILLER, INC.
275 5TH STREET
SUITE 100
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CONTACT:ED McMANAMNA
EMAIL: emcmanamna@rfmarch.com

CIVIL:

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EVERETT, WASHINGTON 98204
PHONE: 425-741-3800
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STRUCTURAL:

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EVERETT, WASHINGTON 98204
PHONE: 425-741-3800
CONTACT: CORBIN HAMMER
EMAIL: chammer@reidmiddleton.com

MECHANICAL & PLUMBING:

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192 NICKERSON, SUITE 300
SEATTLE, WASHINGTON 98109
PHONE: 206-285-2966
CONTACT: JAMES WHIGHAM
EMAIL: james@siderbyers.com

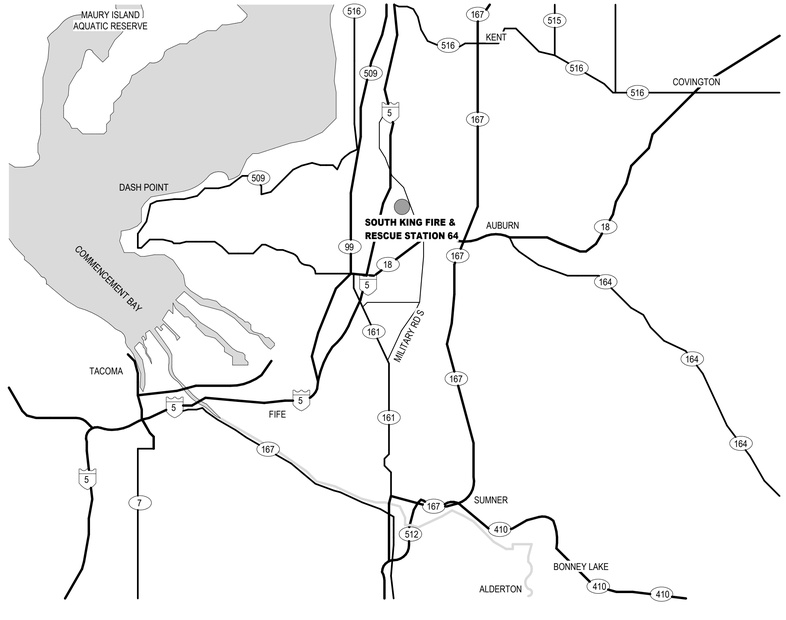
ELECTRICAL:

BCE ENGINEERS, INC
6021 12TH STREET E, SUITE 200
FIFE, WASHINGTON 98424
PHONE: 253-922-0446
CONTACT: CARRIE TAYLOR
EMAIL: carrie.taylor@bceengineers.com

ENVIRONMENTAL:

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1011 SW KLICKITAT WAY, SUITE 104
SEATTLE, WASHINGTON 98134
PHONE: 206-381-1128
CONTACT: DERICA ESCAMILLA
EMAIL: DericaE@ehsintl.com

2 PROJECT TEAM



N

1 VICINITY MAP
NTS

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STATION 64
3700 S 320TH ST
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PROJECT # 2015137

BID SET

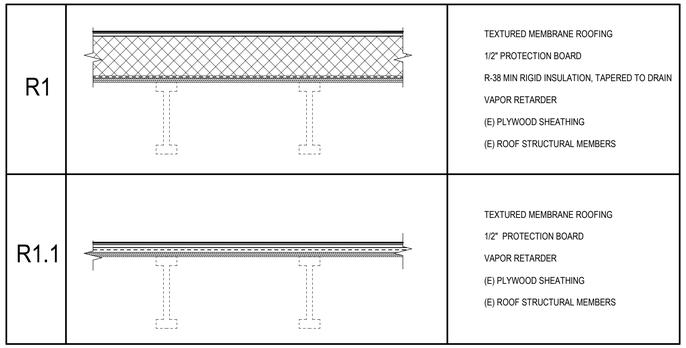
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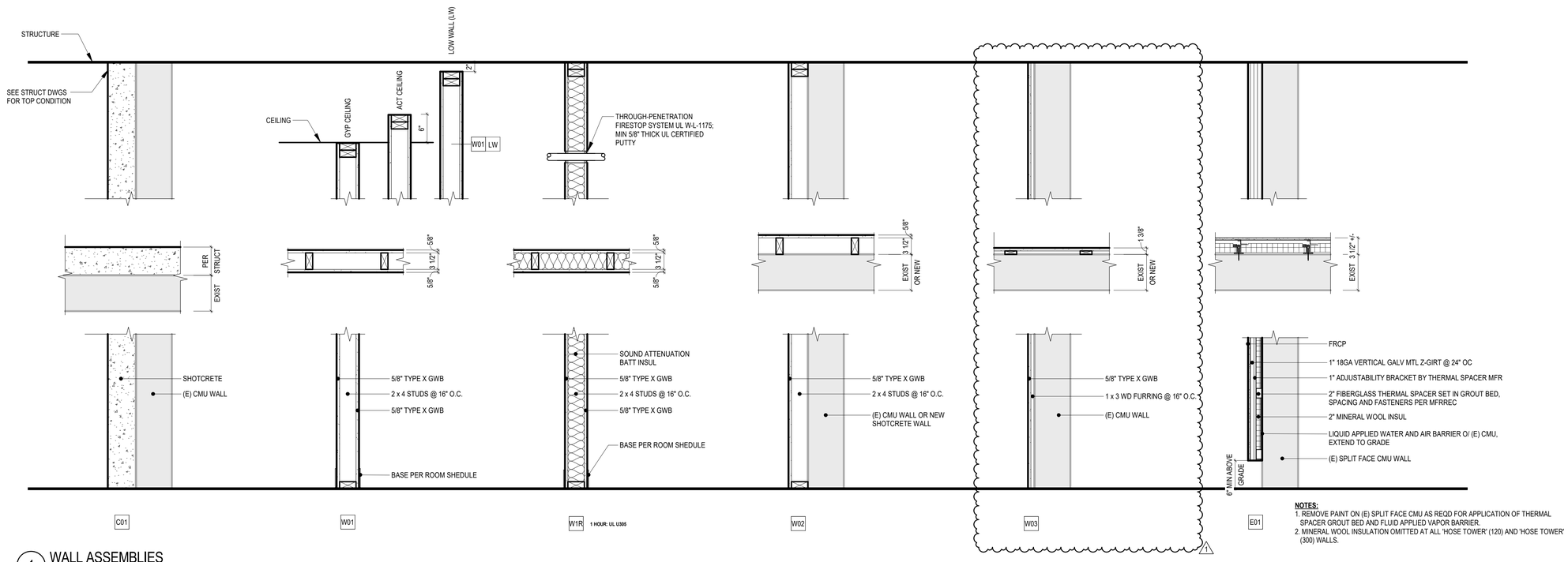
1	ADDENDUM #1	3.14.2018

COVER SHEET AND GENERAL PROJECT INFORMATION

SHEET #
A00.01



2 ROOF ASSEMBLIES
1" = 1'-0"



NOTES:
1. REMOVE PAINT ON (E) SPLIT FACE CMU AS REQD FOR APPLICATION OF THERMAL SPACER GROUT BED AND FLUID APPLIED VAPOR BARRIER.
2. MINERAL WOOL INSULATION OMITTED AT ALL 'HOSE TOWER' (120) AND 'HOSE TOWER' (300) WALLS.

1 WALL ASSEMBLIES
1" = 1'-0"

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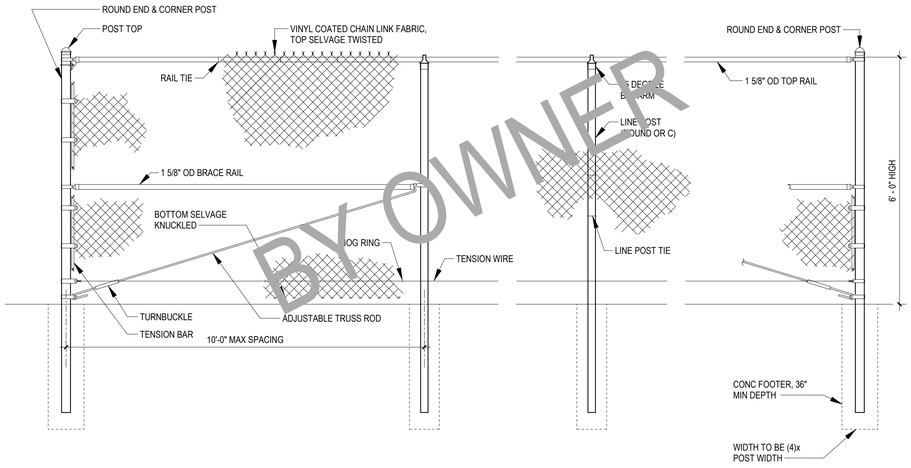
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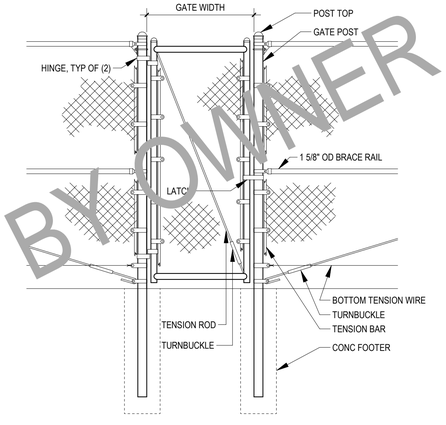
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ASSEMBLY SCHEDULES

SHEET #
A01.01

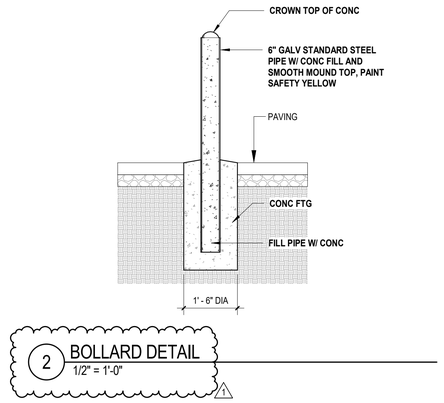


4 TYPICAL CHAIN LINK FENCE ELEVATION
1/2" = 1'-0"



3 CHAIN LINK MANUAL GATE ELEVATION
1/2" = 1'-0"

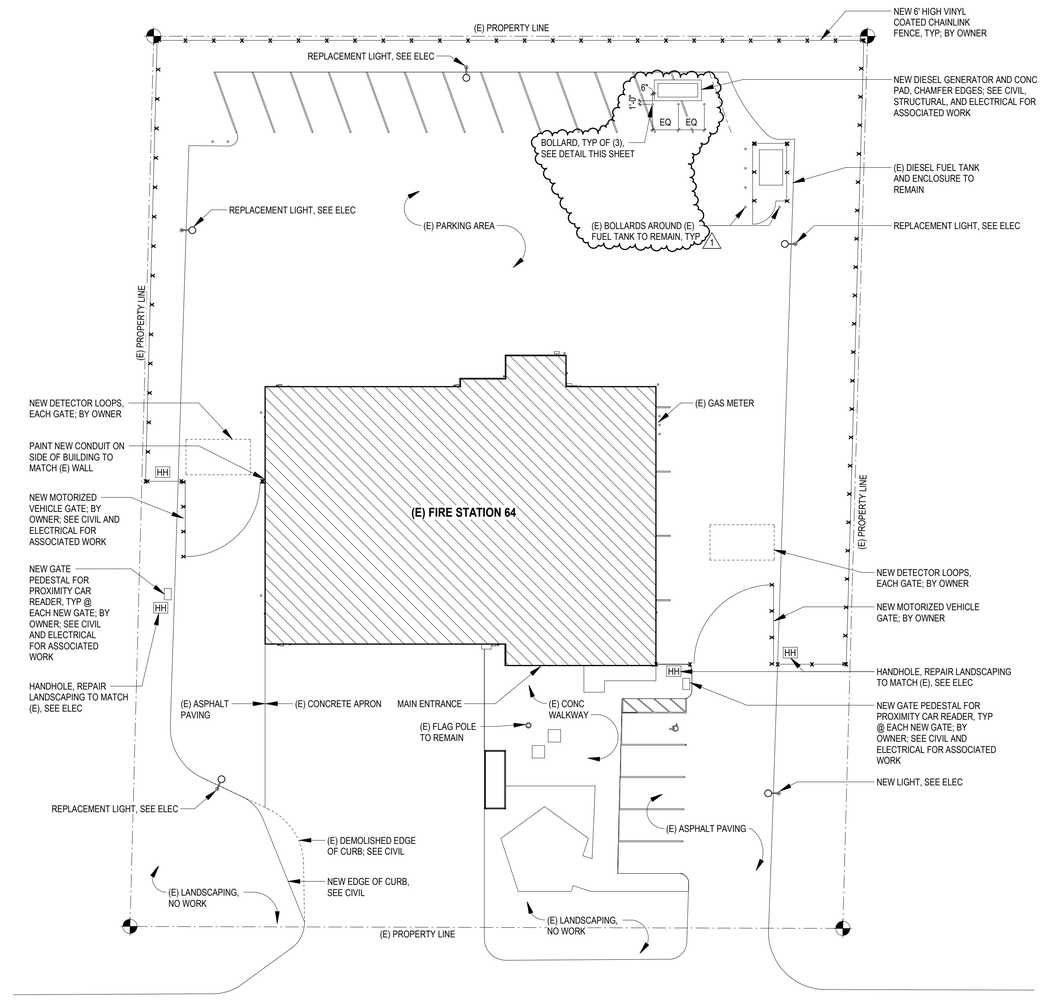
BY OWNER



2 BOLLARD DETAIL
1/2" = 1'-0"

GENERAL NOTES - SITE PLAN

1. SEE CIVIL AND ELECTRICAL DRAWINGS FOR ASSOCIATED WORK.



N 1 SITE PLAN
1" = 20'-0"

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ARCHITECTURAL SITE PLAN

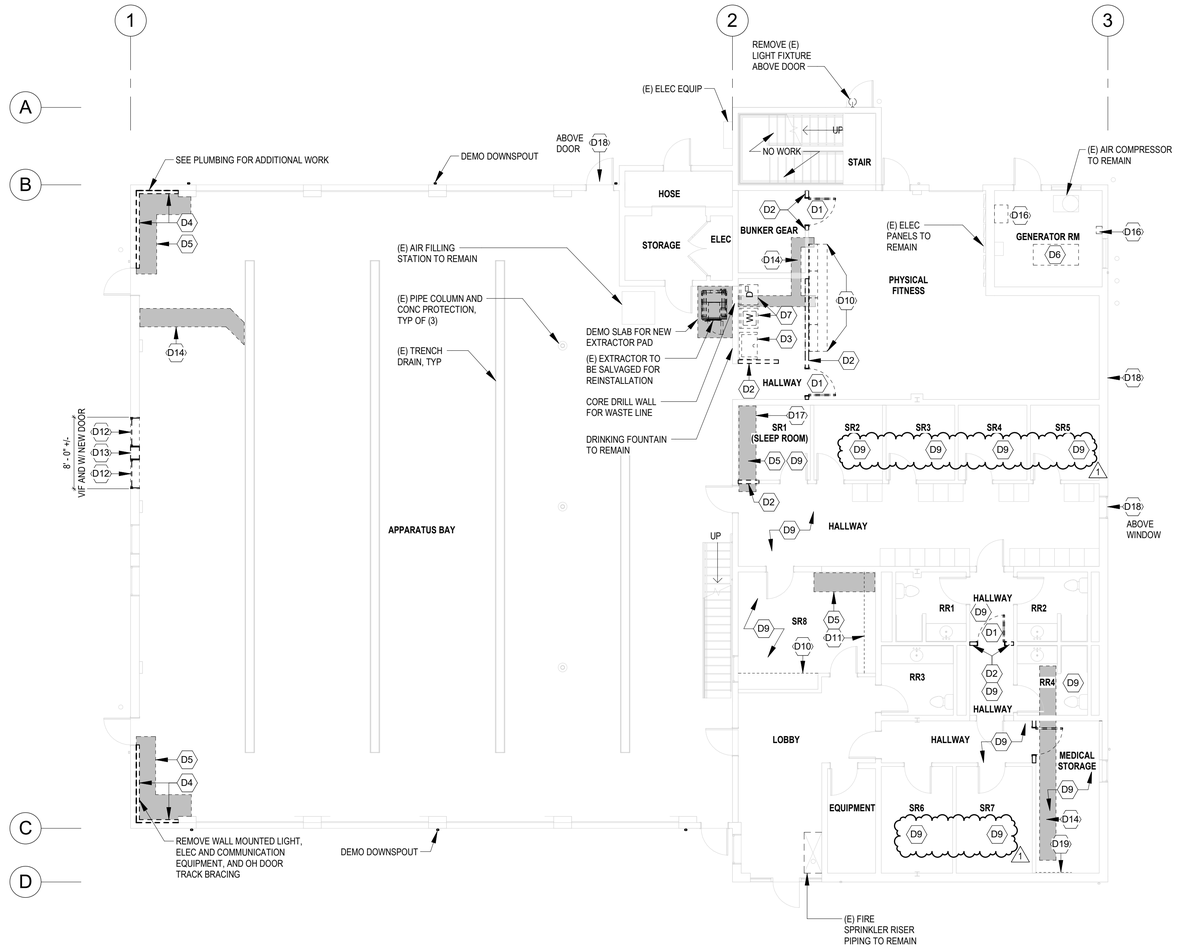
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A10.01

KEY NOTES - DEMO PLAN

#	NOTE DESCRIPTION
D1	DEMO (E) DOOR AND FRAME.
D2	DEMO (E) INTERIOR PARTITION. REPAIR AND PREP ADJACENT SURFACES TO RECEIVE NEW FINISH.
D3	DEMO (E) APPLIANCE/FIXTURE, REUSE OR CAP UTILITIES AS NEEDED; SEE PLUMBING AND ELECTRICAL.
D4	DEMO (E) FURRED WALL.
D5	SAW CUT AND REMOVE (E) CONC SLAB FOR NEW FOOTINGS, SEE STRUCTURAL DRAWINGS FOR ASSOCIATED WORK.
D6	DEMO (E) GENERATOR, REMOVE AND CAP UTILITIES; SEE PLUMBING.
D7	REMOVE AND REINSTALL (E) APPLIANCE/FIXTURE.
D9	REMOVE (E) FLOORING AND WALL BASE, PREPARE SUBSTRATE TO RECEIVE NEW FINISH.
D10	DEMO (E) CASEWORK, COUNTERTOP, AND UPPER CABINETS.
D11	DEMO (E) CABINETS AND MURPHY BEDS.
D12	DEMO (E) WINDOW, PREPARE OPENING FOR NEW DOOR.
D13	SAW CUT (E) EXTERIOR MASONRY WALL, PREPARE OPENING FOR NEW DOOR.
D14	SAW CUT AND REMOVE (E) CONC SLAB AS REQUIRED FOR INSTALLATION OF NEW PLUMBING.
D15	DEMO (E) GWB AND BASE THIS WALL FOR STRUCTURAL IMPROVEMENTS.
D16	DEMO (E) ELECTRICAL EQUIPMENT, SEE ELECTRICAL DWGS FOR ASSOCIATED WORK.
D17	DEMO FLOORING AS REQUIRED FOR STRUCTURAL IMPROVEMENTS.
D18	DEMO PORTION OF MASONRY WALL FOR THE INSTALLATION OF A NEW LOUVER. SEE BUILDING ELEVATIONS AND STRUCTURAL AND MECHANICAL DRAWINGS FOR ASSOCIATED WORK.
D19	DEMO (E) GWB AND BASE THIS WALL AS REQUIRED FOR PLUMBING IMPROVEMENTS.
D20	DEMO (E) GWB AND FRAME FOR INSTALLATION OF PLYWOOD SHEATHING.

GENERAL NOTES - DEMO PLAN

1. SEE HAZMAT, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ASSOCIATED DEMOLITION WORK.



N
1 LEVEL 1 - DEMO PLAN
1/8" = 1'-0"

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DEMO PLAN - LEVEL 1

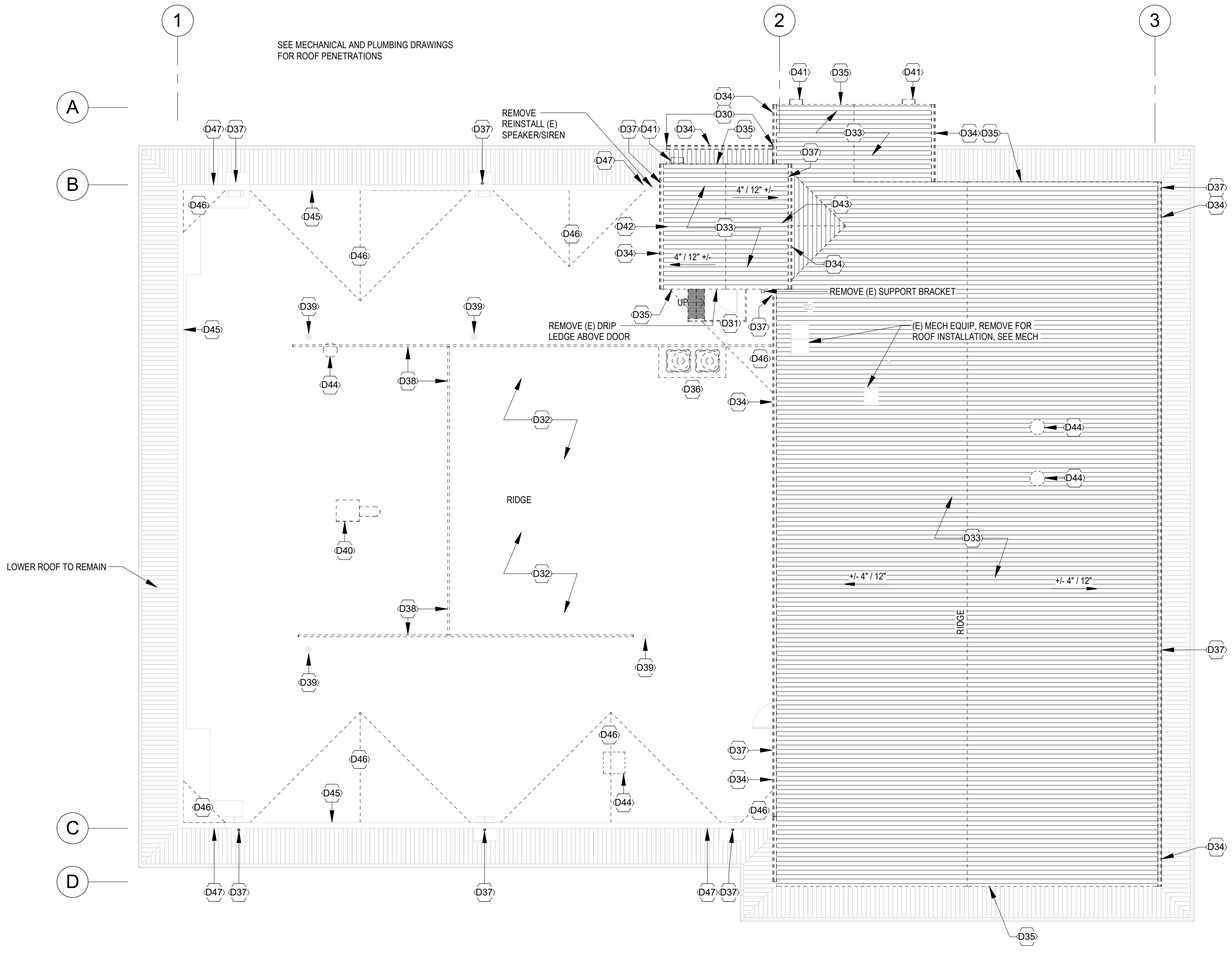
SHEET #
A21.01

KEY NOTES - DEMO ROOF

#	NOTE DESCRIPTION
D30	REMOVE PORTION OF EXISTING ROOF OVERHANG. REPAIR ADJACENT SURFACES OR PREPARE TO RECIEVE NEW FINISH.
D31	SALVAGE (E) WOOD STAIR, LANDING, AND GUARDRAIL FOR REINSTALLATION
D32	REMOVE (E) MEMBRANE ROOFING, INSULATION AND UNDERLAYMENT DOWN TO ROOF DECKING
D33	REMOVE (E) STANDING SEAM METAL ROOFING AND (E) UNDERLAYMENT TO (E) ROOF DECK
D34	REMOVE (E) GUTTER
D35	REMOVE (E) FASCIA
D36	REMOVE (E) MECHANICAL EQUIPMENT AND CURB, SEE MECHANICAL DRAWINGS FOR ASSOCIATED WORK
D37	REMOVE (E) DOWNSPOUT AND SCUPPER
D38	REMOVE (E) GAS PIPING; SEE PLUMBING FOR ASSOCIATED WORK.
D39	REMOVE AND REPLACE (E) VENT PIPE
D40	REMOVE AND SALVAGE (E) VEHICLE EXHAUST SOURCE CAPTURE FAN FOR REINSTALLTION, SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ASSOCIATED WORK
D41	REMOVE AND REINSTALL (E) WALL MOUNTED FLOOD LIGHT
D42	REMOVE (E) LOUVER AND MASONRY SILL FOR LOUVER REINSTALLATION
D43	REMOVE (E) LOUVER AND MASONRY SILL
D44	DEMO (E) ROOF DECKING AS REQUIRED FOR DUCT PENETRATIONS, SEE MECHANICAL
D45	REMOVE (E) COPING
D46	DEMO (E) CRICKET
D47	CORE DRILL PENETRATIONS IN CMU WALL FOR NEW ROOF DRAINS AND OVERFLOW DRAINS, SEE BUILDING ELEVATIONS

GENERAL NOTES - DEMO PLAN

1. SEE HAZMAT, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ASSOCIATED DEMOLITION WORK.



N

1 ROOF DEMO PLAN

1/8" = 1'-0"

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4794 REGISTERED ARCHITECT
DAVID A. FERGUS
STATE OF WASHINGTON

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS

STATION 64
3700 S 320TH ST
FEDERAL WAY, WA 98001

PROJECT # 2015137

BID SET

ISSUE DATE FEBRUARY 23, 2018

REVISION SCHEDULE		
1	ADDENDUM #1	3.14.2018

DEMO ROOF PLAN

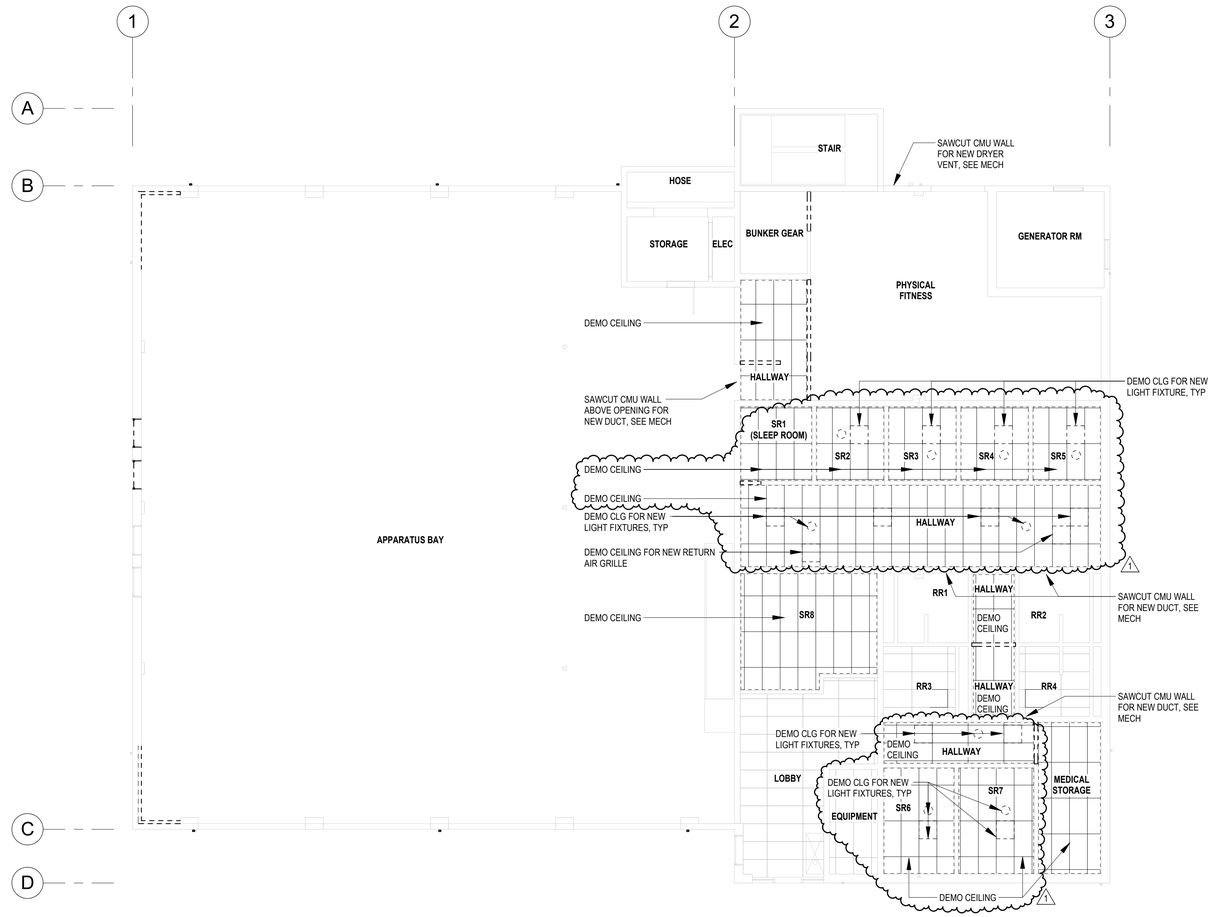
SHEET #
A21.03

GENERAL NOTES - DEMO PLAN

1. SEE HAZMAT, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ASSOCIATED DEMOLITION WORK.

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STATE OF WASHINGTON



1 LEVEL 1 - REFLECTED CEILING DEMO PLAN
1/8" = 1'-0"

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DEMO REFLECTED CEILING PLAN - LEVEL 1

SHEET #
A21.04

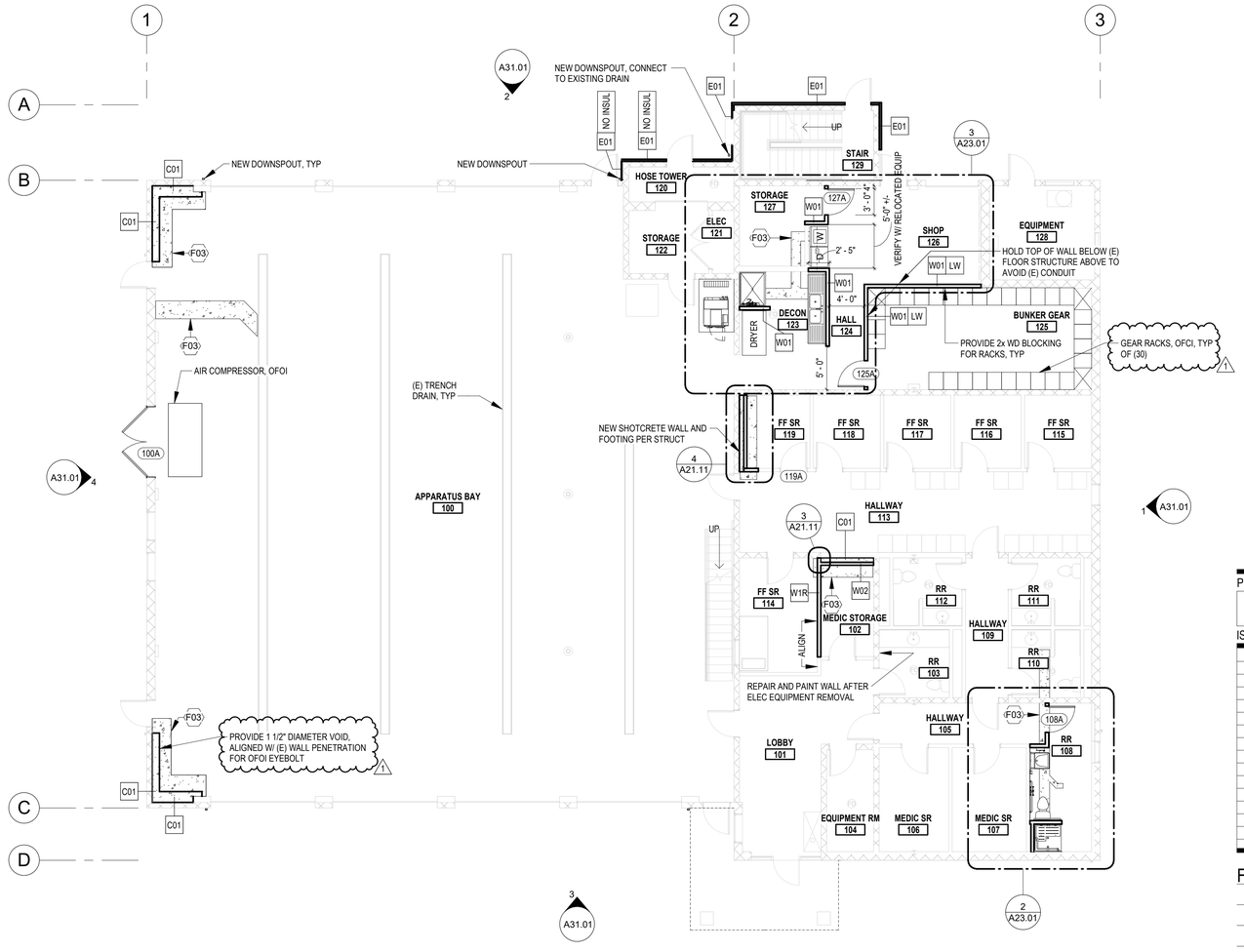
KEY NOTES - FLOOR PLAN	
#	NOTE DESCRIPTION
F01	INFILL WALL OPENING, MATCH EXISTING STUD SIZE; PATCH TO MATCH EXISTING.
F03	NEW CONCRETE SLAB TO REPLACE DEMOLISHED CONCRETE SLAB. SEE STRUCTURAL AND PLUMBING DRAWINGS FOR ASSOCIATED WORK.
F04	ELECTRICAL EQUIPMENT TO REMAIN.

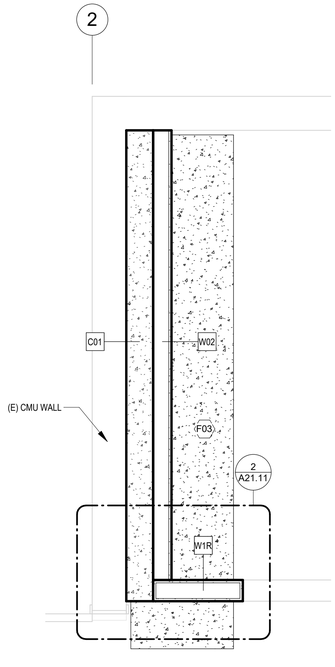
GENERAL NOTES - FLOOR PLAN

1. SEE HAZMAT, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ASSOCIATED WORK.
2. FURNITURE THAT IS NOT FIXED SHALL BE OWNER FURNISHED AND OWNER INSTALLED, UNLESS NOTED OTHERWISE.
3. DO NOT SCALE PLANS.
4. VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK OR FABRICATION OF ELEMENTS.
5. DOORS THAT ARE NOT DIMENSIONED SHALL BE LOCATED 4" FROM A WALL INTERSECTION.
6. PROVIDE CONCEALED BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ELEMENTS.
7. WALL DIMENSIONS ARE TO FINISHED FACE OF WALL UNO.

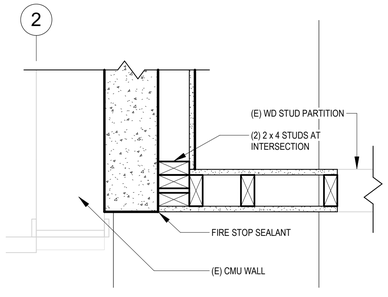
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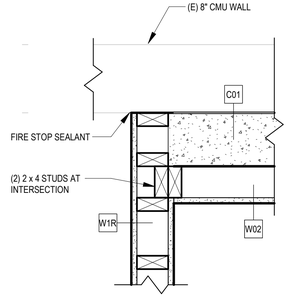




4 ENLARGED PLAN
3/4" = 1'-0"



2 PLAN - WALL INTERSECTION
1 1/2" = 1'-0"



3 PLAN - WALL INTERSECTION
1 1/2" = 1'-0"

N
1 LEVEL 1 - FLOOR PLAN
1/8" = 1'-0"

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FLOOR PLAN - LEVEL 1

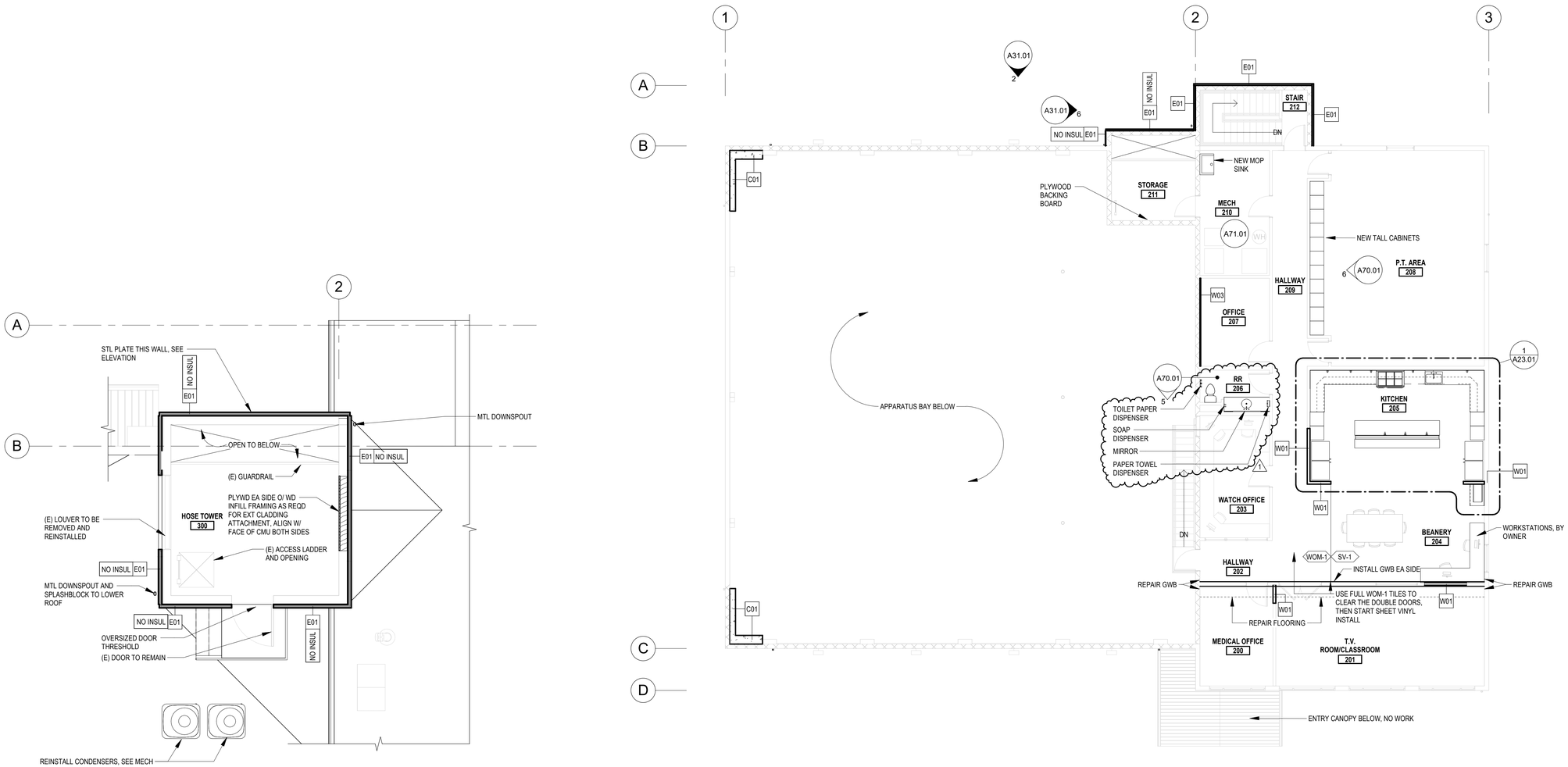
SHEET #
A21.11

GENERAL NOTES - FLOOR PLAN

1. SEE HAZMAT, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ASSOCIATED WORK.
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7. WALL DIMENSIONS ARE TO FINISHED FACE OF WALL UNO.

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N 2 HOSE TOWER PLATFORM - FLOOR PLAN
1/4" = 1'-0"

N 1 LEVEL 2 - FLOOR PLAN
1/8" = 1'-0"

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FLOOR PLAN - LEVEL 2 & 3

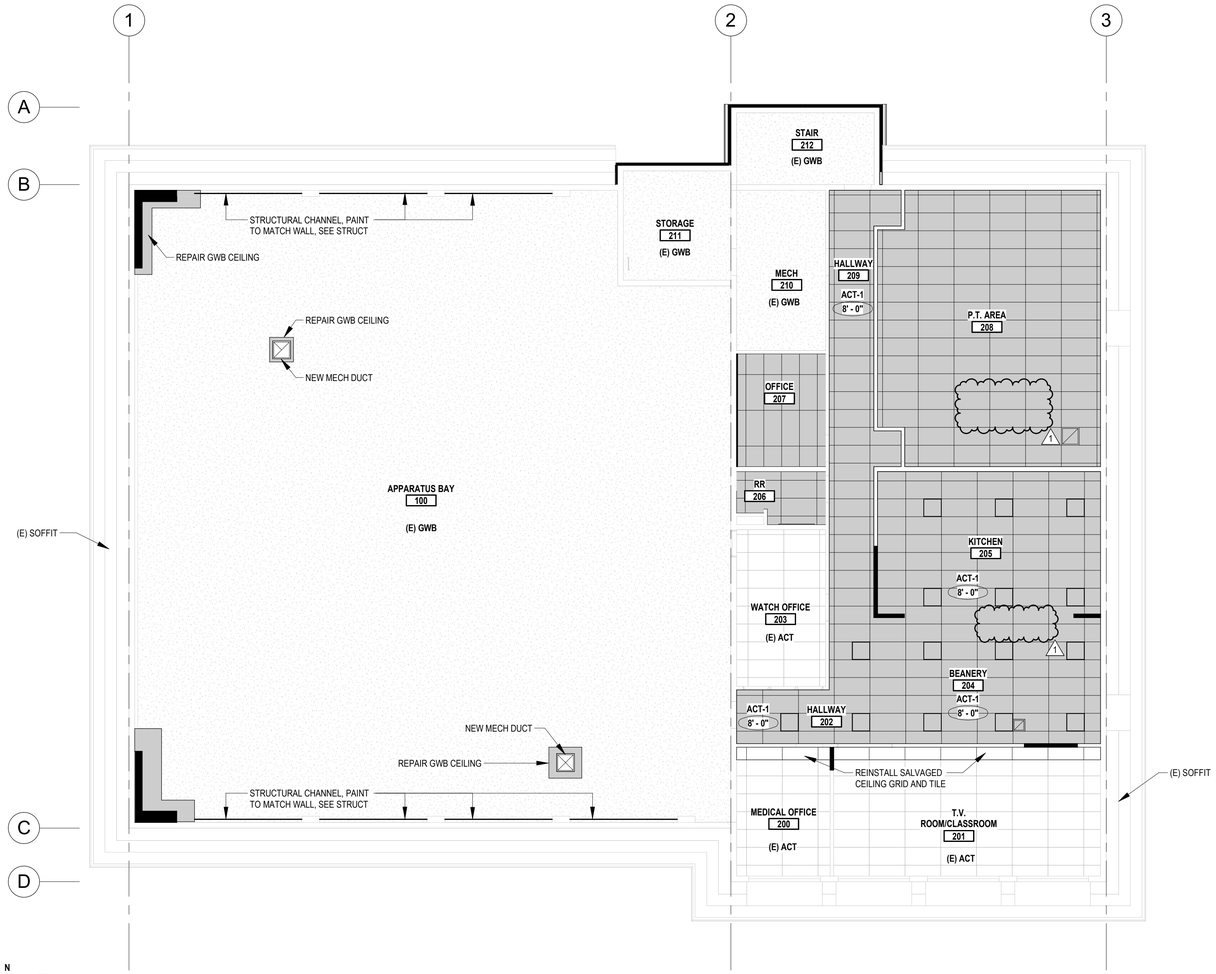
SHEET #
A21.12

RCP LEGEND

- EXISTING GWB CEILING TO REMAIN
- EXISTING SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- NEW GWB CEILING
- NEW SUSPENDED ACOUSTICAL TILE CEILING, UNLESS NOTED OTHERWISE
- EIH — ELECTRICAL INFRA RED HEATER
- RCP — RADIANT CEILING PANEL
- RETURN GRILLE
- SUPPLY GRILLE
- EXHAUST GRILLE
- LIGHT FIXTURE

GENERAL NOTES - RCP

1. ARCHITECTURAL RCP PROVIDED FOR COORDINATION PURPOSES ONLY. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DETAILED SCOPE OF SYSTEMS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
2. SEISMIC BRACE ALL CEILING HUNG EQUIPMENT, SOFFITS AND ACOUSTICAL CEILINGS.
3. REFER TO FINISH SCHEDULE FOR MANUFACTURER, STYLE, COLOR, ETC.
4. SUSPENDED CEILING SHALL BE PER CODE AND HAVE SEISMIC RESTRAINTS.
5. FIRE BLOCKING SHALL BE REQUIRED PER CODE IN WALL ASSEMBLIES.



N

1 LEVEL 2 - REFLECTED CEILING PLAN

1/8" = 1'-0"

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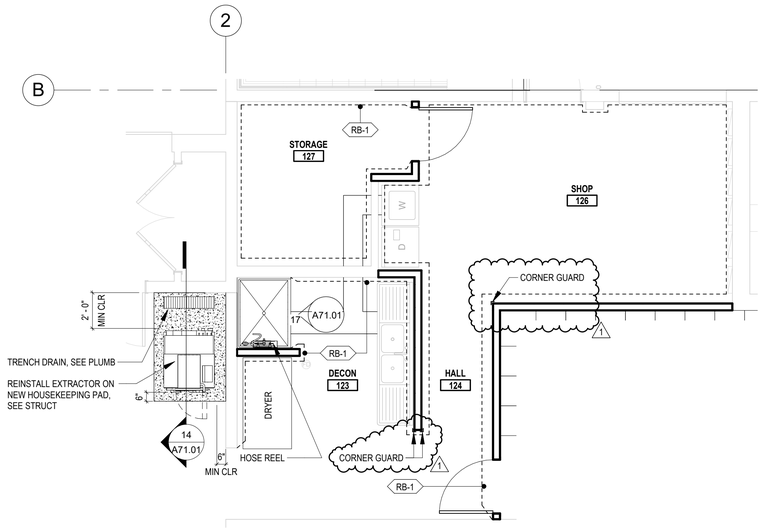
SECOND FLOOR REFLECTED CEILING PLAN

SHEET #

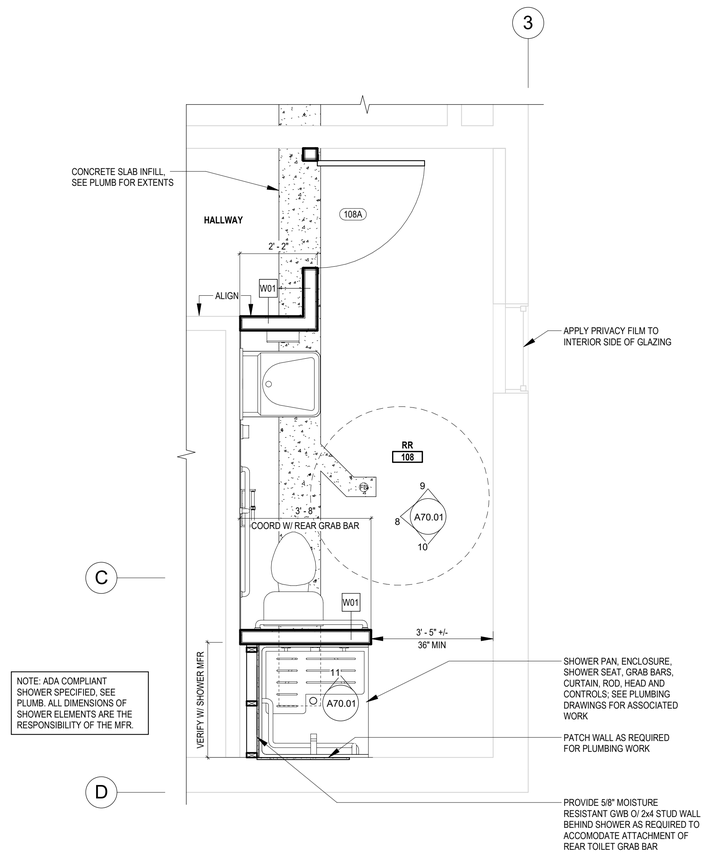
A22.02

GENERAL NOTES - FLOOR PLAN

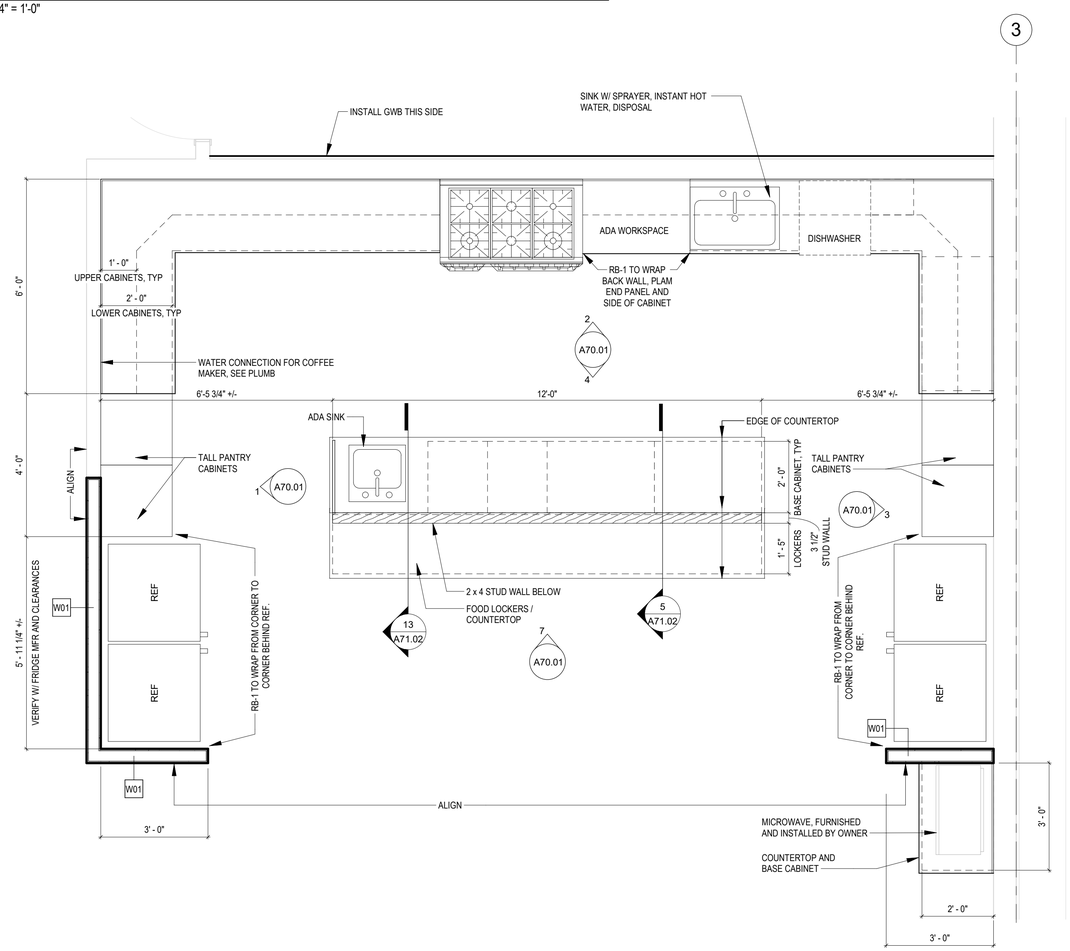
1. SEE HAZMAT, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ASSOCIATED WORK.
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7. WALL DIMENSIONS ARE TO FINISHED FACE OF WALL U.N.O.



3 LEVEL 1 - WALL BASE EXTENTS
1/4" = 1'-0"



2 ENLARGED PLAN
1/2" = 1'-0"



1 ENLARGED PLAN - KITCHEN
1/2" = 1'-0"

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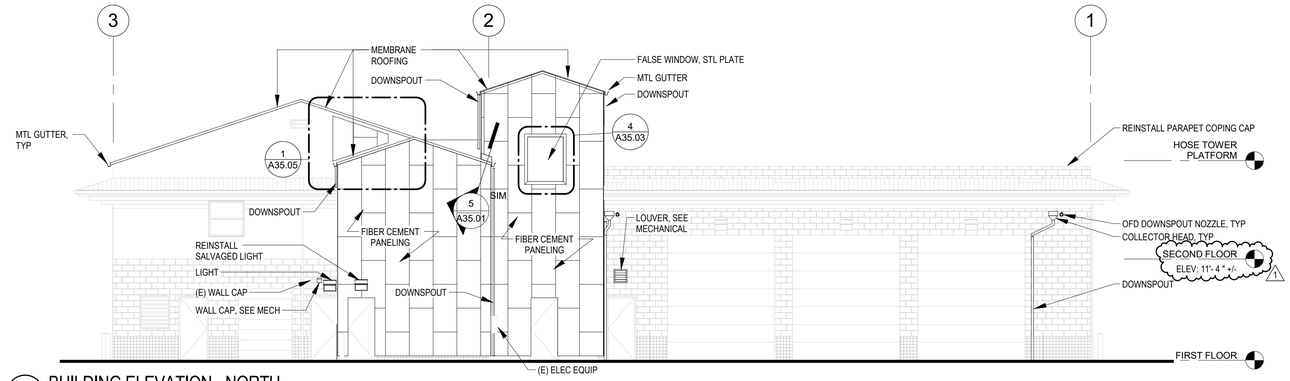
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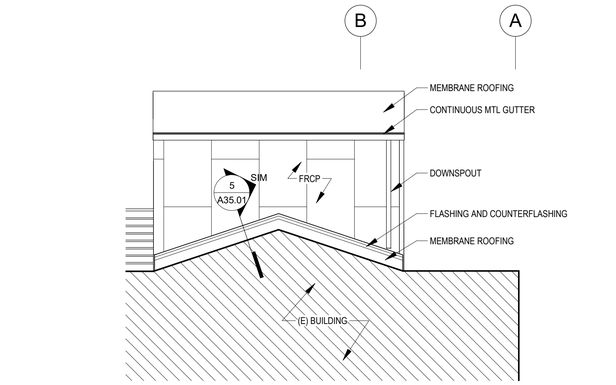
ENLARGED FLOOR PLANS

SHEET #
A23.01

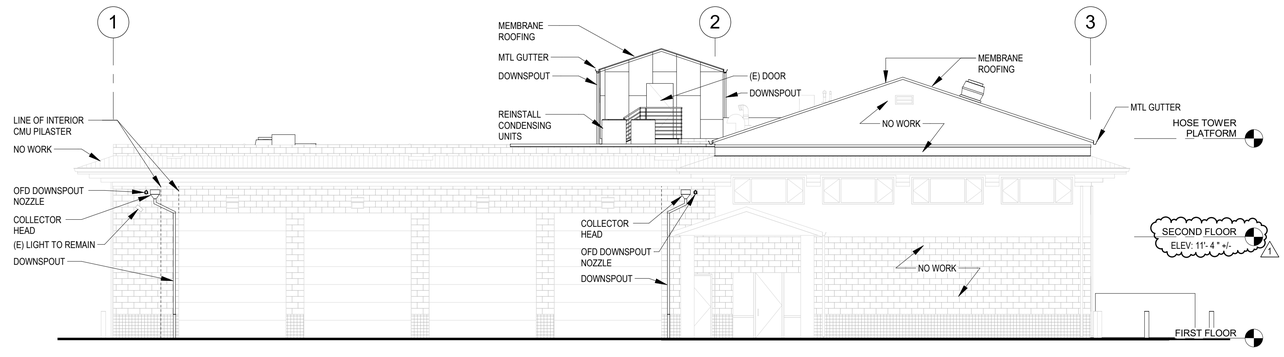
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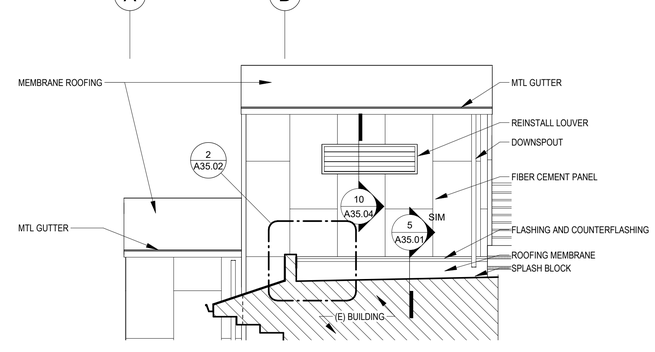
2 BUILDING ELEVATION - NORTH
1/8" = 1'-0"



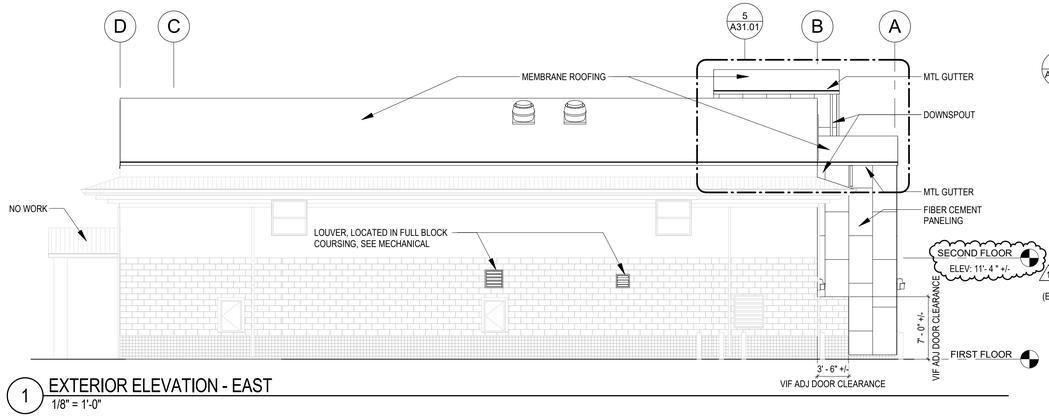
5 EXTERIOR ELEVATION - HOSE TOWER
1/4" = 1'-0"



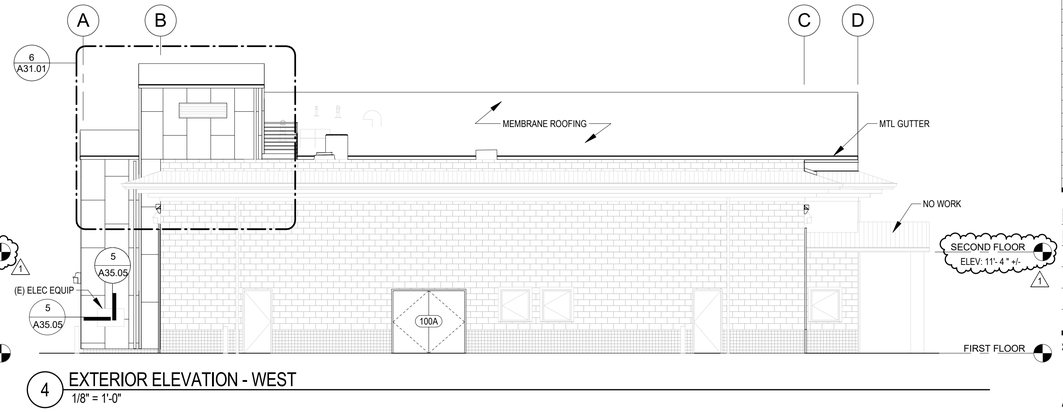
3 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



6 EXTERIOR ELEVATION - HOSE AND STAIR TOWER
1/4" = 1'-0"



1 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



4 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"

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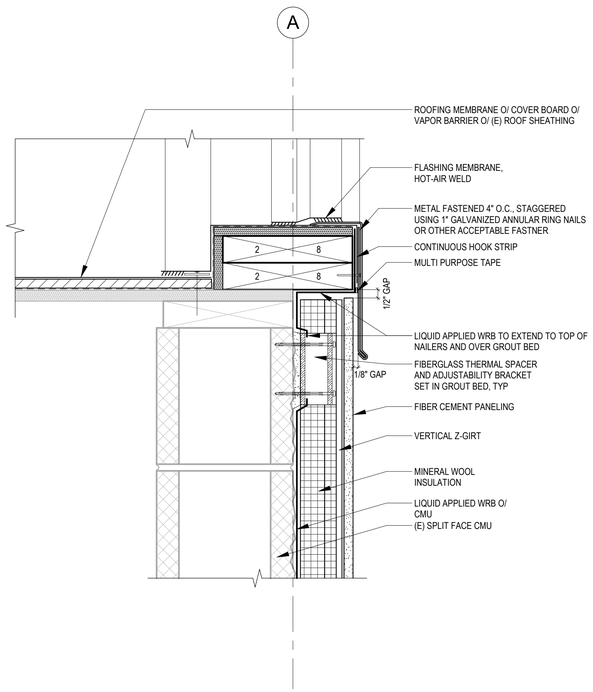
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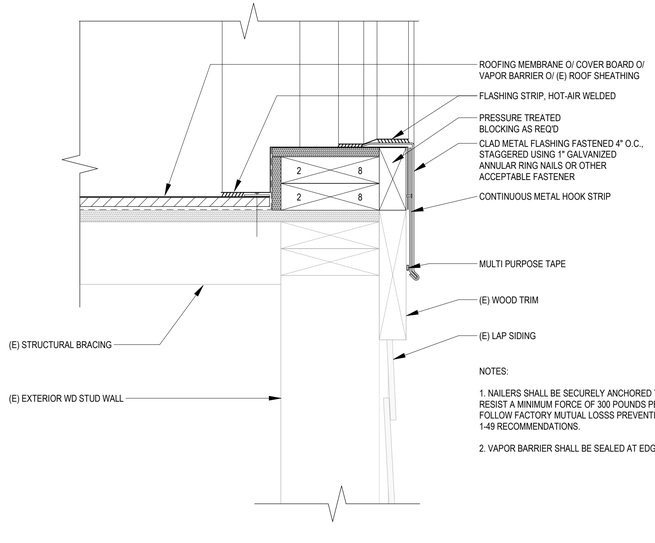
1	ADDENDUM #1	3.14.2018

BUILDING ELEVATIONS

SHEET #
A31.01



8 TYP DETAIL - GABLE ROOF RAKE/NEW SIDING
3" = 1'-0"

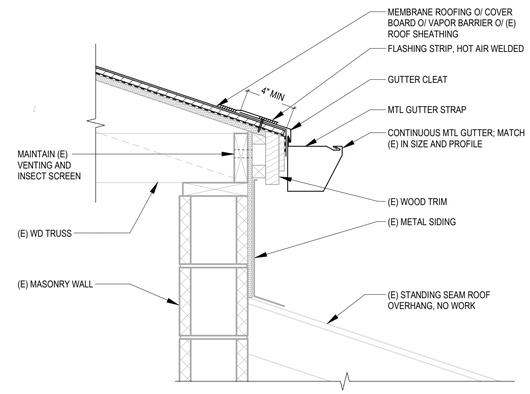


NOTES:

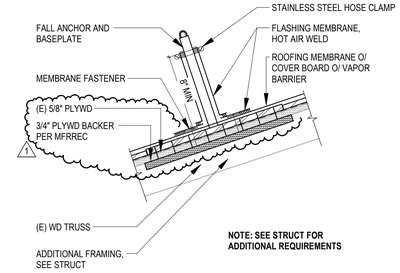
1. NAILERS SHALL BE SECURELY ANCHORED TO THE DECK TO RESIST A MINIMUM FORCE OF 300 POUNDS PER LINEAR FOOT. FOLLOW FACTORY MUTUAL LOSSS PREVENTION DATA SHEET 1-49 RECOMMENDATIONS.

2. VAPOR BARRIER SHALL BE SEALED AT EDGES.

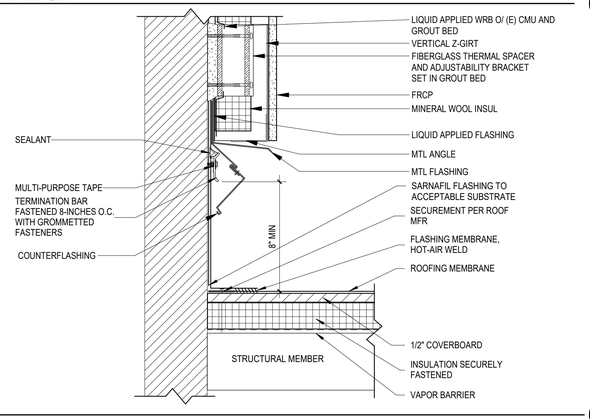
6 DETAIL - GABLE ROOF RAKE EDGE
3" = 1'-0"



9 DETAIL - FALL ANCHOR
1 1/2" = 1'-0"



7 DETAIL - GABLE ROOF EAVE EDGE
1 1/2" = 1'-0"



NOTES:

1. SEALANT IS A TWO STEP APPLICATION:
   A) BEHIND TOP OF SARNFIL FLASHING
   B) TOP OF SARNAREGLET

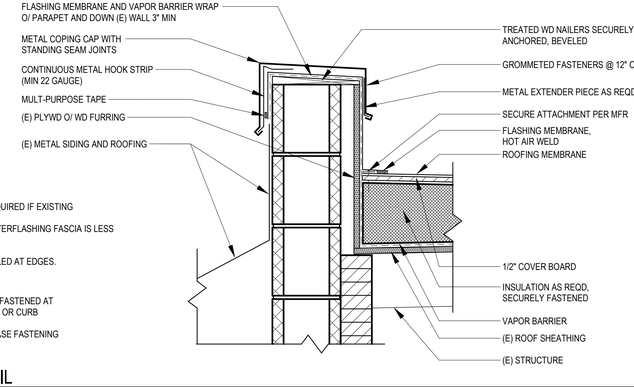
2. SEALANT SHALL BE APPLIED TO CLEAN ACCEPTABLE SURFACES

3. SEALANT IS A MAINTENANCE ITEM. MAINTENANCE IS NOT COVERED UNDER SARNAFIL WARRANTY

4. SARNAREGLET SHALL BE SECURELY ANCHORED WITH GROMMETTED FASTENERS AND PROVIDE ADEQUATE COMPRESSION OF MEMBRANE FLASHING AND SEALANT.

5. VAPOR BARRIER SHALL BE SEALED AT EDGES.

5 TYP ROOFING AT WALL
3" = 1'-0"



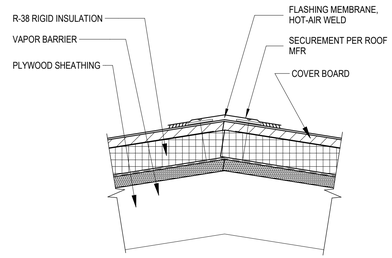
NOTES:

1. METAL EXTENDER PIECE IS REQUIRED IF EXISTING COUNTERFLASHING IS CONTAMINATED AND OR COUNTERFLASHING FASCIA IS LESS THAN 4 IN. WIDE

2. VAPOR BARRIER SHALL BE SEALED AT EDGES.



4 TYP COPING DETAIL
1 1/2" = 1'-0"

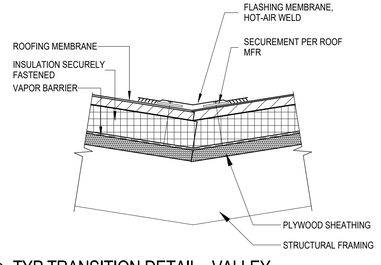


3 TYP TRANSITION DETAIL - RIDGE
3" = 1'-0"

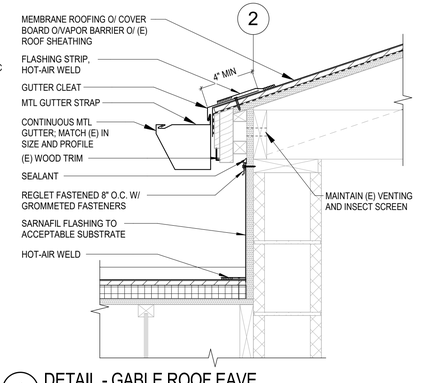
NOTES:

1. WOOD NAILER TO MATCH HEIGHT OF INSULATION MAY BE REQUIRED AT PEAK IF INSULATION THICKNESS EXCEEDS 2 INCHES.

2. OPTION DETAIL USING SARNAFASTENERS AND SARNADISC SPACING MAY VARY. CONSULT SIKA SARNAFIL TECHINICAL DEPARTMENT.



2 TYP TRANSITION DETAIL - VALLEY
3" = 1'-0"



1 DETAIL - GABLE ROOF EAVE
1 1/2" = 1'-0"

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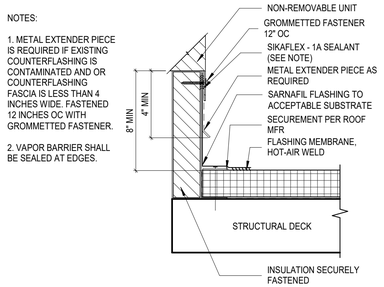
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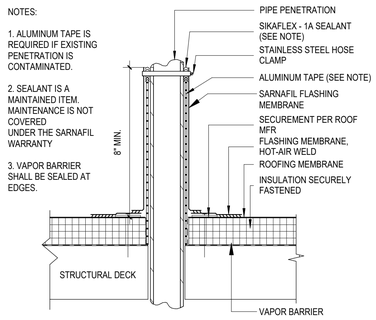
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EXTERIOR DETAILS

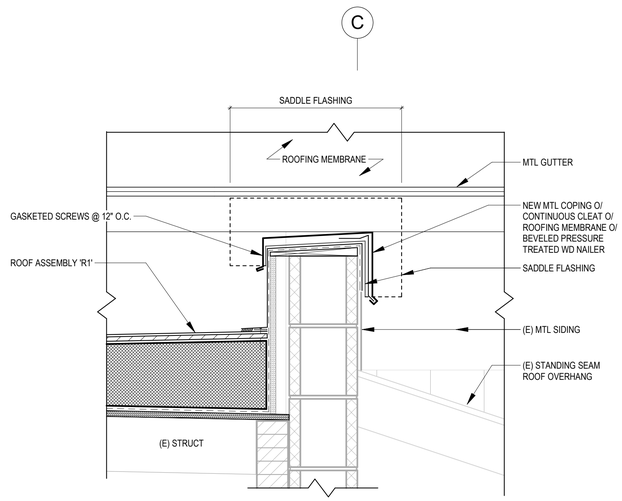
SHEET #
A35.01



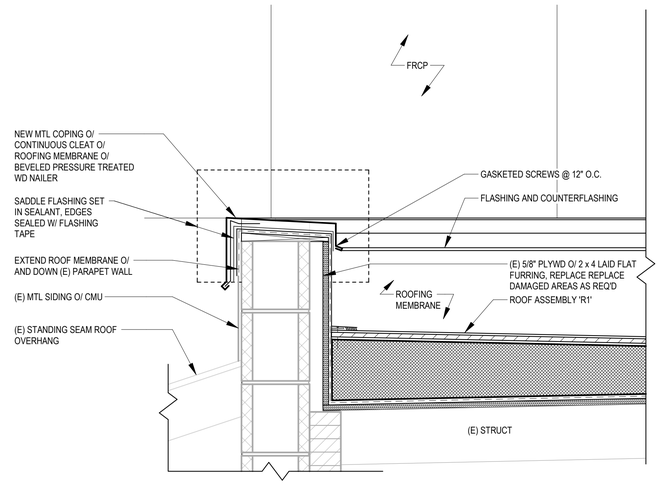
6 TYP DETAIL - CURB FLASHING
3" = 1'-0"



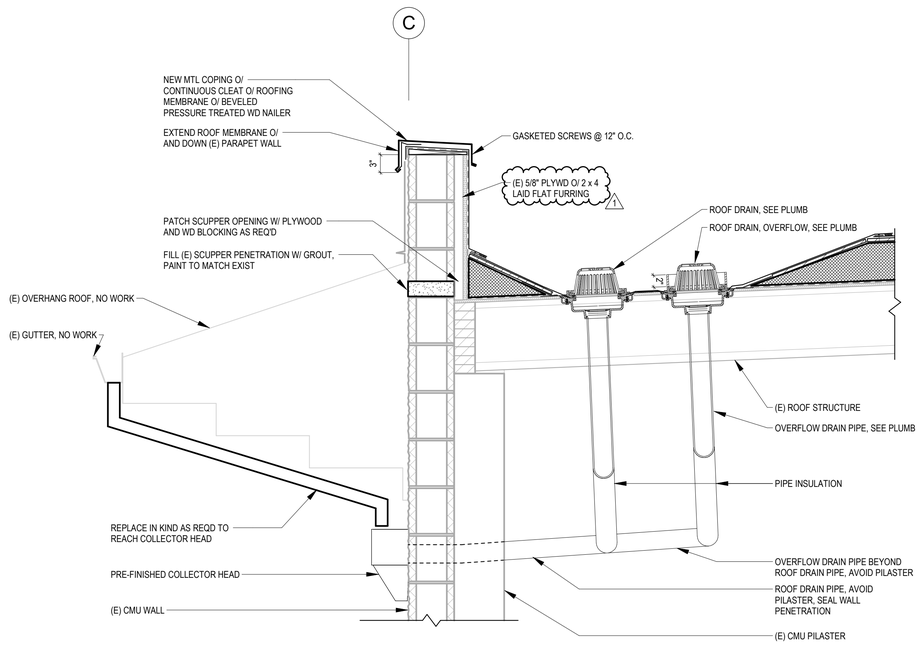
5 PIPE PENATRATED FLASHING
3" = 1'-0"



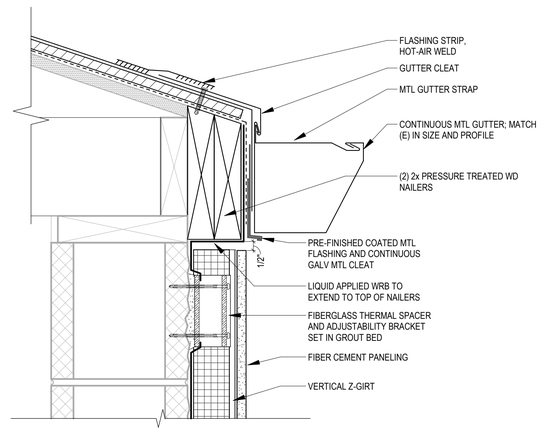
4 DETAIL SECTION - SADDLE FLASHING
1 1/2" = 1'-0"



2 DETAIL SECTION - SADDLE FLASHING
1 1/2" = 1'-0"



3 ROOF DRAIN DETAIL
1" = 1'-0"



1 TYPICAL DETAIL - GUTTER / SIDING
3" = 1'-0"

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PROJECT # 2015137

BID SET

ISSUE DATE FEBRUARY 23, 2018

REVISION SCHEDULE

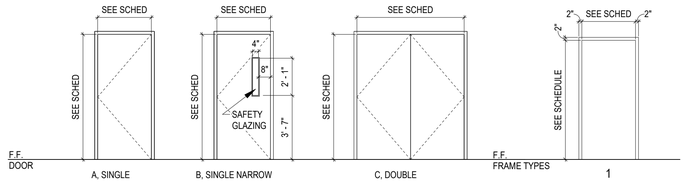
1	ADDENDUM #1	3.14.2018

ROOF DETAILS

SHEET #
A35.02

DOOR SCHEDULE

DOOR #	ROOM NUMBER	ROOM NAME	DOOR INFORMATION TYPE	MATERIAL	FINISH	GLAZING	HEIGHT	WIDTH	THICKNESS	FRAME INFORMATION TYPE	MATERIAL	FINISH	FIRE RATING	HARDWARE GROUP	COMMENTS
100A	100	APPARATUS BAY	C	HM	PAINT	-	7' - 0"	8' - 0"	1 3/4"	1	HM	PAINT	NA	2	PAINT TO MATCH EXIST DOORS AND FRAMES
108A	108	RR	A	WD	STAIN	-	7' - 0"	3' - 0"	1 3/4"	1	HM	PAINT	NA	1	FACTORY FINISH STAIN TO MATCH EXIST DOOR; PAINT TO MATCH EXIST FRAME
125A	125	BUNKER GEAR	B	HM	PAINT	G1	7' - 0"	3' - 0"	1 3/4"	1	HM	PAINT	NA	3	PAINT TO MATCH EXIST DOORS AND FRAMES
127A	127	STORAGE	A	HM	PAINT	-	7' - 0"	3' - 0"	1 3/4"	1	HM	PAINT	NA	3	PAINT TO MATCH EXIST DOORS AND FRAMES



DOOR & FRAME TYPES

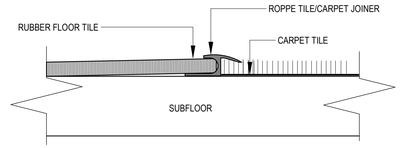
ROOM SCHEDULE

NUMBER	NAME	AREA	WALL	BASE	FLOOR	CEILING	COMMENTS
100	APPARATUS BAY	4520 SF	P-2	-	-	-	-PAINT ONLY NEW SHOTCRETE WALLS TO MATCH EXISTING
102	MEDIC STORAGE	63 SF	P-1	RB-1	SV-1	ACT-1	-
105	HALLWAY	90 SF	P-1	RB-1	CPT-1	ACT-1	-
106	MEDIC SR	95 SF	P-1	RB-1	CPT-1	ACT-1	-
107	MEDIC SR	102 SF	P-1	RB-1	CPT-1	ACT-1	-
108	RR	106 SF	P-1/T-1	SV-1 COVE	SV-1	ACT-2	-SEE ELEVATIONS FOR WALL TILE INSTALL
109	HALLWAY	78 SF	P-1	RB-1	SV-1	ACT-2	-
110	RR	60 SF		RB-1	SV-1	-	-
113	HALLWAY	374 SF	P-1	RB-1	CPT-1	ACT-1	-
114	FF SR	117 SF	P-1	RB-1	CPT-1	ACT-1	-
115	FF SR	64 SF	P-1	RB-1	CPT-1	ACT-1	-
116	FF SR	64 SF	P-1	RB-1	CPT-1	ACT-1	-
117	FF SR	64 SF	P-1	RB-1	CPT-1	ACT-1	-
118	FF SR	64 SF	P-1	RB-1	CPT-1	ACT-1	-
119	FF SR	61 SF	P-1	RB-1	CPT-1	ACT-1	-
123	DECON	137 SF	P-2/FRP	RB-1	-	-	-SEE ENLARGED PLAN FOR BASE EXTENTS, 8' HIGH FRP ALL WALLS
124	HALL	48 SF	P-2	RB-1	-	-	-SEE ENLARGED PLAN FOR BASE EXTENTS
125	BUNKER GEAR	298 SF	P-2	RB-1	-	-	-
126	SHOP	209 SF	P-2	RB-1	-	-	-
127	STORAGE	78 SF	P-2	RB-1	-	-	-
200	MEDICAL OFFICE	151 SF	P-1	RB-2	-	-	-RB-2 AT NEW GWB LOCATIONS ONLY
201	T.V. ROOM/CLASSROOM	431 SF	P-1	RB-2	-	-	-RB-2 AT NEW GWB LOCATIONS ONLY
202	HALLWAY	62 SF	P-1	RB-1	WOM-1	ACT-1	-SEE FLOOR PLAN FOR FLOOR TRANSITION LOCATION
204	BEANERY	467 SF	P-1	RB-1	SV-1	ACT-1	-
205	KITCHEN	405 SF	P-1/T-1	RB-1	SV-1	ACT-1	-SEE ELEVATIONS FOR WALL TILE INSTALL
206	RR	54 SF	P-1	SV-1 COVE	SV-1	ACT-1	-
207	OFFICE	124 SF	P-1	RB-1	CPT-1	ACT-1	-
208	P.T. AREA	745 SF	P-1	RB-1	RT-1	ACT-1	-
209	HALLWAY	225 SF	P-1	RB-1	WOM-1	ACT-1	-

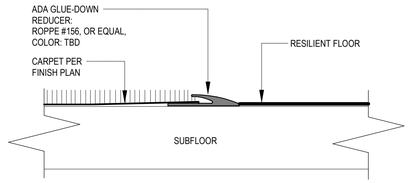
NOTE: ALL FINISHES SHOWN IN THE ROOM SCHEDULE ARE NEW.

FINISH LEGEND

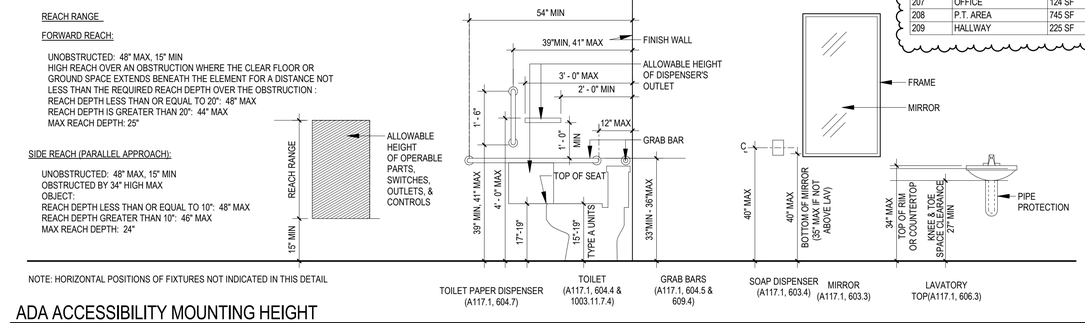
TAG	MATERIAL
FLOOR	
CPT-1	CARPET, SHEET
EXIST	EXISTING FLOORING
RT-1	RUBBER TILE
SV-1	SHEET VINYL
WOM-1	CARPET, MODULAR
CASEWORK	
PLAM-1	PLASTIC LAMINATE CABINETRY
QTZ-1	QUARTZ COUNTERTOP
SOL-1	SOLID SURFACE COUNTERTOP
WALL	
FRP	FIBER REINFORCED PANEL
P-1	PAINT - NEW
P-2	PAINT - MATCH EXISTING
RB-1	RUBBER BASE
RB-2	RUBBER BASE
T-1	TILE BACKSPLASH
CEILING	
ACT-1	ACOUSTICAL CEILING TILE
ACT-2	ACOUSTICAL CEILING TILE - ANTIMICROBIAL



4 FLOOR TRANSITION - RUBBER TILE / CARPET
6" = 1'-0"

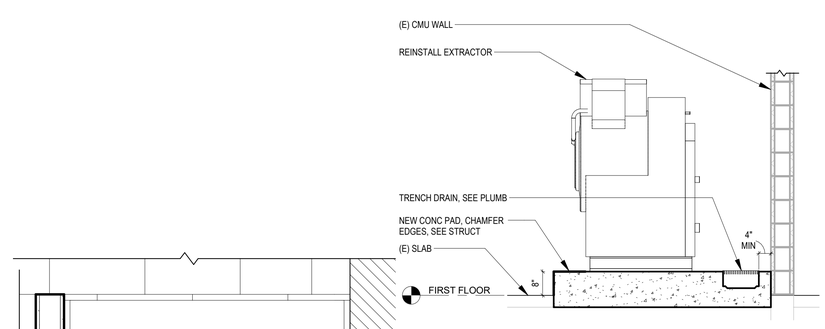


3 FLOOR TRANSITION - CARPET / RESILIENT
6" = 1'-0"

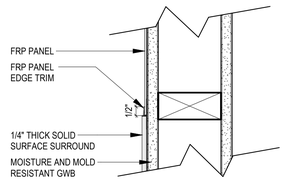


NOTE: HORIZONTAL POSITIONS OF FIXTURES NOT INDICATED IN THIS DETAIL

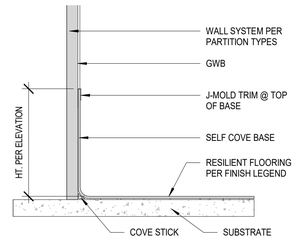
ADA ACCESSIBILITY MOUNTING HEIGHT



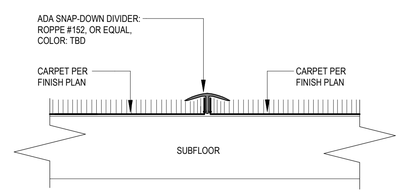
14 EXTRACTOR PAD DETAIL
1/2" = 1'-0"



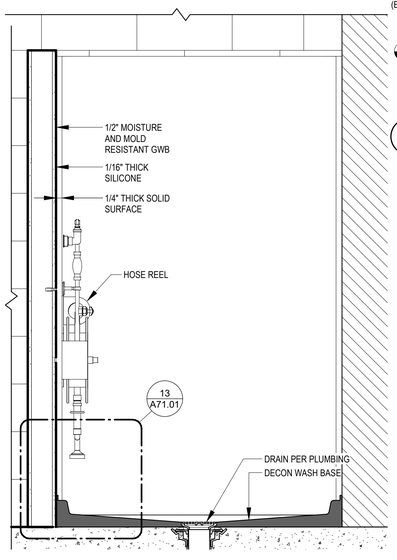
10 DECON ROOM SHOWER PANEL CONNECTION
3" = 1'-0"



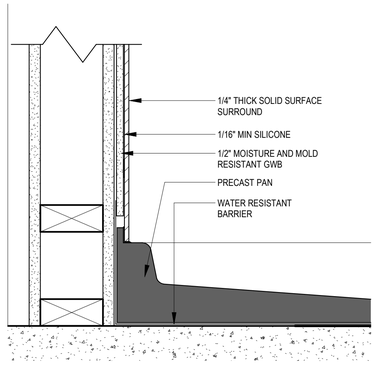
6 TYP. SELF COVE BASE DETAIL
3" = 1'-0"



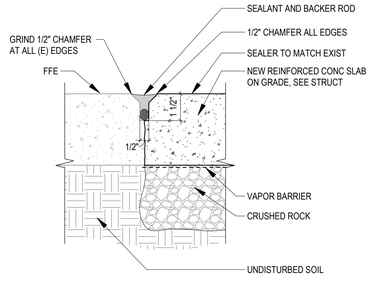
2 FLOOR TRANSITION - CARPET / CARPET
6" = 1'-0"



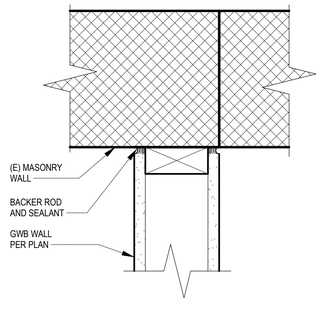
17 DECON SHOWER
1" = 1'-0"



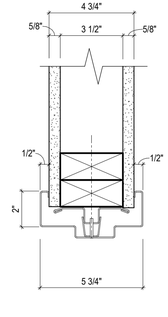
13 DECON SHOWER DETAIL
3" = 1'-0"



9 TYPICAL DETAIL - SLAB JOINT
3" = 1'-0"



5 DETAIL - TYP WALL INTERSECTION
3" = 1'-0"



1 TYP INT DOOR JAMB DETAIL (HEAD SIM)
3" = 1'-0"

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PROJECT # 2015137

BID SET

ISSUE DATE FEBRUARY 23, 2018

REVISION SCHEDULE		
1	ADDENDUM #1	3.14.2018

INTERIOR DETAILS AND SCHEDULES

SHEET #
A71.01

SYSTEMS LEGEND

SYMBOL	DESCRIPTION
	ACCESS CONTROL SYSTEM
ACP	ACCESS CONTROL PANEL
ACPS	ACCESS CONTROL POWER SUPPLY
CR	PROXIMITY CARD READER - WALL MOUNT TO SINGLE-GANG BOX FLUSH TO WALL SURFACE UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL FOR MOUNTING HEIGHT. M INDICATES MULLION MOUNT.
DR	DOOR RELEASE BUTTON.
D	DOOR POSITION SWITCH (A DPDT SHALL BE PROVIDED AT EACH LOCATION SHOWN [FOR BOTH THE INTRUSION ALARM SYSTEM AND ACCESS CONTROL SYSTEM]). PROVIDED AND INSTALLED BY THE INTRUSION ALARM SYSTEM INSTALLING VENDOR. COORDINATE WITH ALL TRADES, AS REQUIRED.
ES	ELECTRIC STRIKE. - SEE DOOR HARDWARE SCHEDULE FOR DEVICE USED ON THIS PROJECT.
EL	ELECTRIC LOCK - SEE DOOR HARDWARE SCHEDULE FOR DEVICE USED ON THIS PROJECT.
ED	ELECTRIFIED EXIT DEVICE - SEE DOOR HARDWARE SCHEDULE FOR DEVICE USED ON THIS PROJECT.
EDPS	ELECTRIFIED EXIT DEVICE POWER SUPPLY
REX	REQUEST TO EXIT MOTION SENSOR
	CCTV SYSTEM
C	INTERIOR FIXED IP MINI-DOME MEGA-PIXEL CAMERA - MOUNT BACKBOX FLUSH TO CEILING OR WALL AND MOUNT CAMERA TO BACKBOX, UNLESS NOTED OTHERWISE. CAMERA HOUSING INSTALLATION SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. PROVIDE (1) ACTIVE DATA JACK AND (1) CAT 6 CABLE FOR EACH CAMERA SHOWN ON THE DRAWINGS. LOCATE THE TELECOMMUNICATIONS OUTLET IN THE BACKBOX (WITH A 25-FOOT SERVICE LOOP IN THE ACCESSIBLE CEILING, SECURED TO THE CEILING STRUCTURE) UNLESS NOTED OTHERWISE. MAINTAIN THE TELECOMMUNICATIONS OUTLET REQUIREMENTS.
C	INTERIOR IP MEGA-PIXEL MULTI-SENSOR CAMERA - MOUNT BACKBOX FLUSH TO CEILING OR WALL AND MOUNT CAMERA TO BACKBOX, UNLESS NOTED OTHERWISE. CAMERA HOUSING INSTALLATION SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. PROVIDE (1) ACTIVE DATA JACK AND (1) CAT 6 CABLE FOR EACH CAMERA SHOWN ON THE DRAWINGS. LOCATE THE TELECOMMUNICATIONS OUTLET IN THE BACKBOX (WITH A 25-FOOT SERVICE LOOP IN THE ACCESSIBLE CEILING, SECURED TO THE CEILING STRUCTURE) UNLESS NOTED OTHERWISE. MAINTAIN THE TELECOMMUNICATIONS OUTLET REQUIREMENTS.
C	OUTDOOR IP MEGA-PIXEL DOME CAMERA (DIGITAL PAN/TILT/ROLL/ZOOM) - WALL MOUNT AT +10'-0" AFF, UNLESS NOTED OTHERWISE. CAMERA HOUSING INSTALLATION SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. (S INDICATES MANUFACTURERS CAMERA SPECIFIC SURFACE MOUNT ADAPTER) (ARROW INDICATES DIRECTION OF FIELD OF VIEW). PROVIDE (1) ACTIVE DATA JACK AND (1) CAT 6 CABLE FOR EACH CAMERA SHOWN ON THE DRAWINGS. LOCATE THE TELECOMMUNICATIONS OUTLET IN THE BACKBOX UNLESS NOTED OTHERWISE. MAINTAIN THE TELECOMMUNICATIONS OUTLET REQUIREMENTS.
MON	CCTV SPOT MONITOR. WALL MOUNT AT HEIGHT SHOWN ON PLANS.

1

GENERAL NOTES

1 REVIEW ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF AREAS WITH ACCESSIBLE CEILING SPACES, HARD LID CEILINGS, AND AREAS WITH CEILINGS THAT ARE OPEN TO STRUCTURE. PROVIDE SURFACE-MOUNTED DEVICES AND THEIR RELATED SURFACE MOUNT BACK BOXES IN AREAS WITH CEILINGS THAT ARE OPEN TO STRUCTURE. PAINT EACH BACKBOX TO MATCH THE ADJACENT SURFACE.

2 ROOMS AND/OR AREAS WITH EXPOSED CEILINGS SHALL HAVE ALL CABLES ROUTED IN CONDUIT. CONDUIT SHALL BE TIGHT TO STRUCTURE, ROUTED PARALLEL AND ADJACENT TO STRUCTURE, AND SHALL BE PAINTED TO MATCH ADJACENT SURFACE. SURFACE MOUNTED CONDUITS SHALL NOT BE UTILIZED IN OCCUPIED SPACES.

3 FIRE WALLS SHOWN ARE DIAGRAMMATIC, REFER TO FINAL ARCHITECTURAL DRAWINGS FOR RATED WALLS, AND PROVIDE FIRE RATED PENETRATIONS FOR ALL CABLES TRANSITIONING THROUGH RATED WALLS. EC SHALL FIRE SEAL AROUND ALL CONDUITS PENETRATING THROUGH FLOORS, ROOF, AND FIRE RATED WALLS.

4 WHERE OPEN CABLING IS PERMITTED BY CODE, EACH LOW VOLTAGE SYSTEM SHALL HAVE THEIR CABLES SUSPENDED SEPARATE FROM OTHER LOW VOLTAGE SYSTEMS (I.E. FIRE ALARM CABLES IN ONE J-HOOK, INTRUSION ALARM IN ANOTHER J-HOOK, AND SO ON). ALL CABLES MUST BE ROUTED IN CONDUIT IN AREAS WITH EXPOSED CEILINGS.

5 ALL OUTLETS, SWITCHES AND DEVICES MOUNTED BACK TO BACK IN A WALL, MUST LOCATED IN SEPARATE STUD BAYS, OR FURNISHED WITH SOUND ATTENUATING MATERIAL AROUND THE BOX TO MEET ACOUSTICAL REQUIREMENTS.

6 ALL TYPICAL DEVICES SHALL BE MOUNTED AT CONSISTENT LOCATIONS AND HEIGHTS THROUGHOUT THIS PROJECT, UNLESS NOTED OTHERWISE.

7 SEE THE SITE PLANS FOR ADDITIONAL WORK.

8 CAMERAS SHALL BE LOCATED AS SUCH TO AVOID RESTRICTING THE CAMERAS FIELD OF VIEW FROM: EXIT SIGNS, LIGHTING, DOOR HEADERS, BUILDING FEATURES, BANNERS, OR OTHER (ART) ITEMS HANGING FROM THE CEILING. COORDINATE WITH ALL TRADES AS REQUIRED PRIOR TO ROUGH-IN.

9 SEE THE ACCESS CONTROL SYSTEM RISER DIAGRAM, RELATED DETAIL SHEETS, AND THE ELECTRICAL LEGEND, FOR EQUIPMENT THAT IS NOT SHOWN ON THE FLOOR PLANS, BUT SHALL BE PROVIDED AND INSTALLED FOR THIS PROJECT.

10 ALL TELECOMMUNICATIONS OUTLETS HORIZONTAL CABLING SHALL BE ROUTED TO THE CLOSEST TELECOMMUNICATIONS ROOM AS REQUIRED BY SECTION 272000.

11 REVIEW ALL EXTERIOR MOUNTED EQUIPMENT FOR AIR BARRIER PENETRATIONS. SEE ARCHITECTURAL DETAILS FOR REQUIREMENTS ON MAINTAINING THE BUILDING'S ENVELOPE.

12 SEE ALL DETAIL SHEETS AND RISER DIAGRAMS FOR ADDITIONAL WORK REQUIRED BY SECTION 272000.

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PROJECT # 2015137

BID

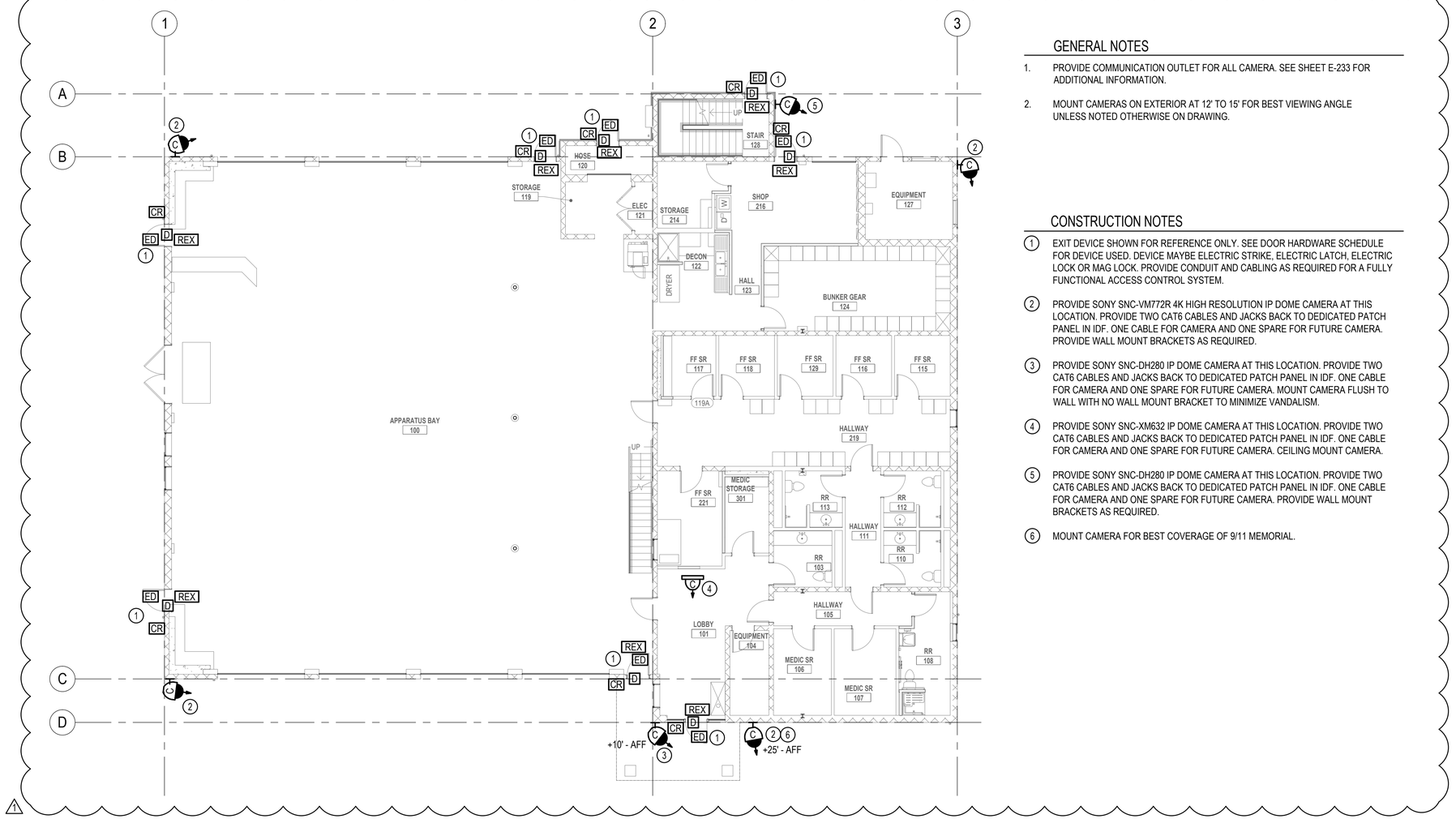
ISSUE DATE FEBRUARY 27, 2018

REVISION SCHEDULE

1	ADDENDUM 1	03/09/18

SYSTEMS LEGEND

SHEET #
E-230



1 FIRST FLOOR ACCESS CONTROL / CCTV PLAN

SCALE: 1/8"=1'-0"

GENERAL NOTES

1. PROVIDE COMMUNICATION OUTLET FOR ALL CAMERA. SEE SHEET E-233 FOR ADDITIONAL INFORMATION.
2. MOUNT CAMERAS ON EXTERIOR AT 12' TO 15' FOR BEST VIEWING ANGLE UNLESS NOTED OTHERWISE ON DRAWING.

CONSTRUCTION NOTES

1. EXIT DEVICE SHOWN FOR REFERENCE ONLY. SEE DOOR HARDWARE SCHEDULE FOR DEVICE USED. DEVICE MAYBE ELECTRIC STRIKE, ELECTRIC LATCH, ELECTRIC LOCK OR MAG LOCK. PROVIDE CONDUIT AND CABLING AS REQUIRED FOR A FULLY FUNCTIONAL ACCESS CONTROL SYSTEM.
2. PROVIDE SONY SNC-VM772R 4K HIGH RESOLUTION IP DOME CAMERA AT THIS LOCATION. PROVIDE TWO CAT6 CABLES AND JACKS BACK TO DEDICATED PATCH PANEL IN IDF. ONE CABLE FOR CAMERA AND ONE SPARE FOR FUTURE CAMERA. PROVIDE WALL MOUNT BRACKETS AS REQUIRED.
3. PROVIDE SONY SNC-DH280 IP DOME CAMERA AT THIS LOCATION. PROVIDE TWO CAT6 CABLES AND JACKS BACK TO DEDICATED PATCH PANEL IN IDF. ONE CABLE FOR CAMERA AND ONE SPARE FOR FUTURE CAMERA. MOUNT CAMERA FLUSH TO WALL WITH NO WALL MOUNT BRACKET TO MINIMIZE VANDALISM.
4. PROVIDE SONY SNC-XM632 IP DOME CAMERA AT THIS LOCATION. PROVIDE TWO CAT6 CABLES AND JACKS BACK TO DEDICATED PATCH PANEL IN IDF. ONE CABLE FOR CAMERA AND ONE SPARE FOR FUTURE CAMERA. CEILING MOUNT CAMERA.
5. PROVIDE SONY SNC-DH280 IP DOME CAMERA AT THIS LOCATION. PROVIDE TWO CAT6 CABLES AND JACKS BACK TO DEDICATED PATCH PANEL IN IDF. ONE CABLE FOR CAMERA AND ONE SPARE FOR FUTURE CAMERA. PROVIDE WALL MOUNT BRACKETS AS REQUIRED.
6. MOUNT CAMERA FOR BEST COVERAGE OF 9/11 MEMORIAL.

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PROJECT # 2015137

BID

ISSUE DATE FEBRUARY 27, 2018

REVISION SCHEDULE

1	ADDENDUM 1	03/09/18

FIRST FLOOR ACCESS CONTROL / CCTV PLAN

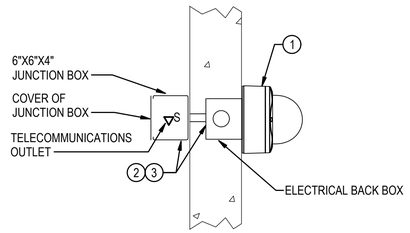
SHEET #
E-231

GENERAL NOTES

1. FOR CLARITY, CONDUITS ARE NOT SHOWN, EXCEPT WHERE NOTED. SEE FLOOR PLANS FOR CONDUIT REQUIREMENTS.
2. SECTION 27 2000 SHALL PROVIDE THE TELECOMMUNICATIONS OUTLET AND THE PATCH CABLES (SIZED TO FIT).
3. MOUNT THIS CAMERA TYPE AS RECOMMENDED BY THE MANUFACTURER AND AS SHOWN.

CONSTRUCTION NOTES

1. REINFORCE THE WALL AND WALL SURFACE FOR CAMERA MOUNTING, AS REQUIRED. SECURE CAMERA HOUSING TO THE WALL SURFACE/STRUCTURE AS RECOMMENDED BY THE MANUFACTURER. PROVIDE WEATHER-PROOF SEALANT TO PREVENT MOISTURE PENETRATION.
2. EXPOSED CONDUITS ARE NOT ALLOWED.
3. PROVIDE A CABLE PATHWAY FROM THE JUNCTION BOX TO THE CAMERA, AS REQUIRED. PROVIDE (1) 3/4" CONDUIT FROM JUNCTION BOX TO THE ACCESSIBLE CEILING SPACE AS REQUIRED.



C

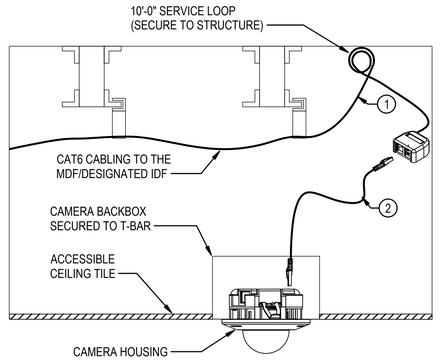
1 TYPICAL WALL MOUNT CCTV CAMERA MOUNTING DETAIL
SCALE: DIAGRAMMATIC

GENERAL NOTES

1. FOR CLARITY, CONDUITS ARE NOT SHOWN, EXCEPT WHERE NOTED. SEE FLOOR PLANS FOR CONDUIT REQUIREMENTS.
2. SECTION 27 2000 SHALL PROVIDE THE TELECOMMUNICATIONS OUTLET AND THE PATCH CABLES (SIZED TO FIT).
3. MOUNT THIS CAMERA TYPE AS RECOMMENDED BY THE MANUFACTURER AND AS SHOWN IN A BACKBOX.

CONSTRUCTION NOTES

1. ROUTE THE CAT6 CABLING TO THE NEAREST TELECOMMUNICATIONS ROOM (MDF OR DESIGNATED IDF.).
2. PATCH CABLE (SIZED AS REQUIRED FOR EACH LOCATION).



C

2 RECESSED MOUNT CCTV MINI-DOME CAMERA (ACCESSIBLE CEILING TILE)
SCALE: DIAGRAMMATIC

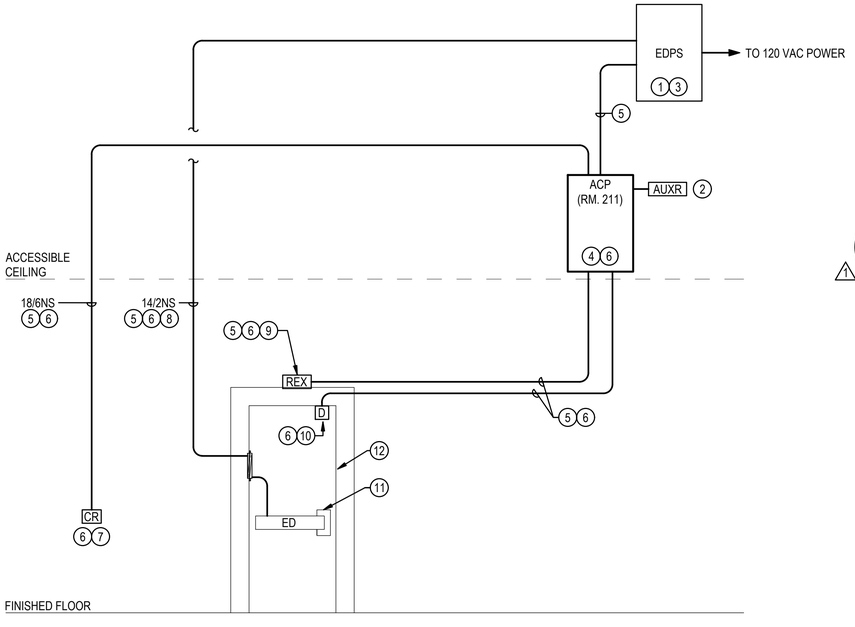
ACCESS CONTROL GENERAL NOTES

1. COORDINATE WITH THE DIVISION 8 AND DIVISION 27 INSTALLING VENDERS PRIOR TO ROUGH-IN OF ALL ACCESS CONTROL DEVICES.
2. PROVIDE SURFACE MOUNTED METAL RACEWAY IN ALL AREAS WHERE CONDUIT IS REQUIRED WHEN NOT CONCEALED BY WALLS OR WITHIN ACCESSIBLE CEILING SPACES. PAINT TO MATCH ADJACENT SURFACES.
3. ALL CONNECTIONS MUST BE SOLDERED AND TAPED INDIVIDUALLY. WIRE NUTS AND CRIMP CONNECTIONS ARE NOT ALLOWED.

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ACCESS CONTROL CONSTRUCTION NOTES

1. (EDPS) ELECTRIFIED EXIT DEVICE POWER SUPPLY. PROVIDED BY DIVISION 8, INSTALLED BY DIVISION 28.
2. (AUXR) PROVIDE AUXILIARY RELAY(S), WHERE REQUIRED FOR SOUNDER. PROVIDED AND INSTALLED BY DIVISION 28.
3. INSTALL IN ACCESSIBLE LOCATION TO ALLOW SERVICE OF BATTERY. PROVIDED BY DIVISION 28, INSTALLED BY DIVISION 8.
4. JUNCTION BOX LOCATED IN CLOSEST ACCESSIBLE CEILING SPACE. PROVIDED AND INSTALLED BY DIVISION 28.
5. PROVIDE 3/4" METAL RACEWAY(S), QUANTITIES AS REQUIRED. PROVIDED AND INSTALLED BY DIVISION 28.
6. SEE SECTION 281300 ACCESS CONTROL SYSTEM FOR CABLING AND MOUNTING REQUIREMENTS. PROVIDED AND INSTALLED BY DIVISION 28.
7. (CR) EXTERIOR CARD READER WITH RED AND GREEN LED'S. EACH CARD READER SHALL BE WIRED TO HAVE THE CARD READER LED'S ILLUMINATED, BASED UPON POWER BEING APPLIED TO THE EL/ED. THE DISTRICT STANDARD IS RED LED = LOCKED, AND GREEN LED = UNLOCKED. MOUNT AT +44" AFF ON CENTER. PROVIDED AND INSTALLED BY DIVISION 28.
8. CABLING FOR THE ELECTRIFIED EXIT DEVICE (ED). USE THE ENTIRE CABLE RUN DISTANCE TO DETERMINE THE CONDUCTOR SIZE REQUIRED FOR EACH DOOR: 50'-0" OR LESS=14AWG, 100'-0" OR LESS=12AWG. TWO (2) CONDUCTORS ARE REQUIRED TO EACH LOCATION. PROVIDED BY DIVISION 28, INSTALLED BY DIVISION 8.
9. (REX) REQUEST TO EXIT MOTION SENSOR. PROVIDED AND INSTALLED BY DIVISION 28.
10. DOOR POSITION SWITCH. PROVIDED BY DIVISION 28, INSTALLED BY DIVISION 8.
11. (ED) ELECTRIFIED EXIT DEVICE. PROVIDED BY DIVISION 8, INSTALLED BY DIVISION 27.
12. REMOVABLE MULLION. PROVIDED BY DIVISION 8, INSTALLED BY DIVISION 28.



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3 TYPICAL FOR ELECTRIC EXIT DEVICE AND ACCESS CONTROL SYSTEM DIAGRAM
SCALE: DIAGRAMMATIC

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ARCHITECTURE INTERIORS PLANNING VIELAB
275 FIFTH STREET, SUITE 100
BREMERTON, WA 98337
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SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
STATION 64
3700 S 320TH ST
FEDERAL WAY, WA 98001

PROJECT # 2015137

BID

ISSUE DATE FEBRUARY 27, 2018

REVISION SCHEDULE		
1	ADDENDUM 1	03/09/18

ACCESS CONTROL / CCTV DETAILS

SHEET #
E-233

SECTION 102600 - WALL AND DOOR PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes Stainless Steel Corner Guards

B. Related Requirements:
   1. Section 092900 - “Gypsum Board”.

1.3 PERFORMANCE REQUIREMENTS

A. Corner Guards: Resist lateral impact force of 100 lbs at any point without damage or permanent set.

1.4 ACTION SUBMITTALS

A. Submit under provisions of Division 1.

B. Product Data: For each type of product indicating physical dimensions and features.

C. Maintenance Data: For corner guards to include in maintenance manuals.

PART 2 - PRODUCTS

2.1 CORNER GUARDS

A. Material: 430-grade stainless steel, 16 ga. Satin finish.

B. Mounting: Adhesive

C. Size:
   1. Corner Guard: 3 ½ in x 3 ½ in. at corners (angles as shown on drawings)
   2. Corner Guard U: Custom sized “U” to cover uncased opening (90 degrees).
   3. 4 foot high, typical.

2.2 FABRICATION

A. Fabricate components with tight joints, corners and seams.

B. Finish sharp edges smooth.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that walls are ready to receive work

B. Verify that rough-in for components are correctly sized and located.

3.2 INSTALLATION

A. Install components in accordance with manufacturer's instructions, level and plumb, secured rigidly in position.

B. Position corner guard as shown on drawings and adhere securely to wall surface.

END OF SECTION 102600

SECTION 281300 – ACCESS CONTROL SYSTEM

PART 1 - GENERAL

1.1 SCOPE AND RELATED DOCUMENTS

A. The project Access Control System shall be a new installation of the Genetec/Mercury Access Control System currently used by the owner. The Installing Contractor shall provide new equipment at the project site and include the necessary programming for viewing reports, changing card holder information, changing card holder access capabilities, and control functions of the new Access Control System.

B. Furnish and install a complete Access Control System as described herein and as shown on the Plans; to be wired, connected, and left in first class operating condition. The system shall include, but not be limited to: Software, Access Control Panel(s), Access Control Reader Interface(s), Input Board(s), Output Board(s), Power Supplies, Card Readers, Door Position Switches, hard wired Electric Locks / Electrified Exit Devices, Electro-Mechanical Door Hardware, power supplies, control Relays, conduit, junction boxes, fittings, wire, connections to devices, and all other necessary material for a completely reliable and fully functional system.

C. Contractual information, guidelines, requirements, or other work specified to provide a fully functional system for Section 281300.

D. Provide all programming as required to the satisfaction of the Owner.

E. The entire Access Control System and related appurtenance shall be provided (as indicated in this specification or in other specifications), installed (as indicated in this specification or in other specifications), wired, terminated, programmed, tested, commissioned, and warranted by Section 281300 for a complete and fully functional system.

1.2 QUALITY ASSURANCE

A. The system, devices, and equipment, shall be manufactured under the appropriate category by Underwriters' Laboratories, Inc. (UL), and shall bear the UL label. Partial or pending listings are not acceptable. The installation of EACH device and/or component shall be in compliance with the UL listing. The system, devices, and equipment shall fully comply with the latest issue of these standards, where applicable, which includes, but is not limited to:
   1. National Fire Protection Association (NFPA) - USA:
      a. NFPA 70 National Electrical Code
      b. NFPA 101 Life Safety Code
   2. Underwriters Laboratories Inc. (UL) - USA:
      a. UL 294 Access Control Systems
      b. UL 1034 Burglary-Resistant Rated
      c. UL 1076 Proprietary Burglar Alarm Units and Systems
   3. Meet or exceed Building Codes and Standards:
      a. Local Authority Having Jurisdiction (AHJ) Requirements
      b. State:
         1) WAC 51-20 Washington Barrier Free Regulations
      c. National:
         1) National Electrical Code (see NFPA 70)
         2) Americans with Disabilities Act
      d. International:
         1) International Building Code
         2) International Electrical Code (see NFPA 70)

3) International Fire Code

B. Approvals:
1. The system shall have proper listing and/or approval from the following nationally recognized agencies:
a. UL Underwriters Laboratories Inc.
b. Factory Mutual.
c. FCC.

C. The Installing Contractor shall provide a Staff Commitment Letter in the Submittal and Shop Drawings submittal package, that states the following:
1. The Installing Contractor shall identify and designate two (2) Manufacturer Trained and Certified Installing Vendor Technicians for the duration of this project.
a. The Installing Contractor shall submit copies of the above designated technicians Manufacturer Certification(s).
1) Genetec/Mercury.
b. Additional Installing Contractor field technicians may also work on the site, but only while one of the two designated technicians are on-site.
2. The Installing Contractor shall identify and designate a Project Manager whose responsibilities will include, but are not limited to:
a. The Primary Point of Contact between the Owner and the Installing Contractor. It is acceptable for this person to be the Lead Technician.
b. Scheduling of technicians to perform the work on the Owners premises.
c. Scheduling of any meetings shall be on the Owners premises.

D. Service and Software Modifications:
1. Provide the services of a Manufacturer Certified/Authorized Technician to perform all system upgrades or changes.
2. For non-emergency service, response time of the technician to the site shall not exceed 4 hours. If the call is received by the Installing Vendor before 1:00pm, service shall be provided that day, and if the call is received after that time, then the response shall be the following business day.
3. Provide all hardware and documentation necessary to modify the system on-site. Modification includes addition and/or deletion of system devices, changes to system operation, and custom label changes for devices.

1.3 SUBMITTALS AND SHOP DRAWINGS:

A. Data Sheets and other Documentation:
1. Pre-Installation project kick-off meeting.
a. The Installing Contractor shall provide the Meeting Minutes for the Pre-Installation project kick-off meeting.
b. Submit the “System Device Naming Matrix” listed elsewhere in this specification, with the Data Sheet submittal.
2. Follow up documentation for the pre-Installation project kick-off meeting shall be provided as described under “Coordination” identified elsewhere in this specification.
3. The Materials List shall identify the specification section, quantity of each item, the manufacturer, model number, and brief description of each item.
a. Provide data sheets for each item listed on the materials list.
4. Provide indicating arrows on data sheets that have multiple items on the data sheet.
5. The Installing Contractor shall submit copies of the (2) designated technicians Manufacturer Certification(s) for EACH item listed below.
a. Genetec/Mercury.
b. Valid Washington State O-6 license.

B. Shop Drawings shall include the following items:
   1. The System Riser Diagram shall show ACP location.
      a. Show each system component and each device connected to and installed in the ACP and all cabling associated with the access control system.
   2. Load Calculations. Provide load calculations for the following items as indicated elsewhere within this specification:
      a. Access Control Power Supply (ACPS).
         1) EACH ACPS and every device shall be included.

C. EACH Card Reader door and device that is connected to the Access Control System shall be identified by the architectural designated door number.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Genetec/Mercury manufactures the products that are used for the basis of design for this specification.
   1. Substitutions will not be approved on this project.

B. Provide all equipment as defined in the specification(s) and shown on the drawings.

2.2 COORDINATION

A. The Installing Contractor shall include each of the following items in their bid for this project.

B. Refer to “Submittals” for additional coordination requirements.

C. Pre-Installation Project Kick-off Meeting. The Installing Contractor shall contact the Electrical Contractor for the purpose of confirming the actual date of and attending the Pre-Installation Project Kick-Off Meeting at the location selected by the Owner (somewhere within the District). This meeting shall take place PRIOR to Submittal of equipment data sheets. The Installing Contractor shall be responsible for providing the following items.
   1. A sign in sheet (with the project name, Section number and title that the Installing Contractor is representing, date, time, location, the printed name of each person in attendance, their title, phone number, and email address).
   2. Be responsible for taking Meeting Minutes, typing them into a formal document, and distributing them via email to each attendee, the Architect, and the Engineer.
   3. The items discussed at the Pre-Installation project kick-off meeting shall include, but not be limited to:
      a. Auto lock schedules.
      b. Access Control System general operation.
      c. IP Addresses for the Access Control System equipment.
      d. Confirm equipment layout with the Owners IT Department.
      e. Device Naming. See “System Device Naming Matrix” elsewhere in this specification.
      f. Configuration settings.
      g. General coordination with staff.
      h. General location of equipment and other items.
      i. General questions about system operation, function, and programming.
      j. The placement of wall mounted Equipment shall be identified, discussed, and confirmed for the placement of the equipment.

D. Follow up documentation for the Pre-Installation Project Kick-Off Meeting. The purpose of this information is to illustrate to the Owners Access Control System representative and the Owners IT Department that the information discussed during the Pre-Installation Project Kick-Off Meeting was understood by the Installing Contractor.
   1. Each of the above items and items discussed during the meeting shall be included in the Data Sheet Submittals.

2.3 ACCESS CONTROL SERVER AND SYSTEM SOFTWARE

A. New Server. No additional Server(s) are to be provided for this project.

B. Existing Server. The existing Department-Wide Access Control Server is located off-site at a District Administration building and shall be used for this project.
   1. Provide programming of the existing Server as required.

C. Existing Database – This system will be an expansion of the Owners existing Access Control System.
   1. Coordinate with the Owners Access Control System Representative, IT Department, and Human Resources Department and import the Database and related information fields as required.
   2. Populate all database fields as directed by the Owner.

D. Server Software. The existing Access Control Server Software (Genetec) shall be programmed for this project. This project shall operate completely and independently from other locations within the District. Coordinate with the District IT department and District's Critical Systems Specialist as required.

E. Software Licenses:
   1. The Installing Contractor shall provide EACH license as required by the Access Control System manufacturer for this project. This includes, but is not limited to:
      a. Group Door Licenses / Reader Licenses provided for this project, as required by the software manufacturer.
      b. Manufactured by Genetec Technology: Provide Genetec Synergis Cloud Link 2GB.Provide quantities as required.

2.4 ACCESS CONTROL PANEL (ACP) AND RELATED MODULES

A. It will be the Installing Contractor responsibility to ensure that the specified equipment is fully and completely compatible with the existing equipment.

B. EACH ACP shall provide full distributed processing of all access control system operations.

C. The ACP shall include an on-board communication module and shall link to the Access Control System software via the 485 data bus to the ACP headend and ACRI.

D. Manufactured by Genetec/Mercury.
   1. Mercury Intelligent Controller, 16MB Ram Ethernet 8in/4Out/2RD model number SY-EP1502.
   2. Provide UL listed equipment enclosure model number SY-29X23ENC-KIT and battery backup model number ALT-BT126 manufactured by Altonix or equal. Provide quantities as required for each ACP installed.
   3. Provide Power Supply Kit for America. 6A power supply/charger board model number SY-6APS-B-NA-KIT.

2.5 ACCESS CONROL READER INTERFACE (ACRI)

A. Manufactured by Genetec/Mercury.
   1. Mercury MR52 2-reader interface module model number SY-MR52.
   2. Provide quantities as required.

2.6 ACCESS CONTROL SYSTEM POWER SUPPLIES (ACPS)

A. The Access Control Power Supply (ACPS) shall be used to power system related equipment as required. The power supply shall be U.L. listed, have a minimum of sixteen (16) Class 2 Rated PTC Power Limited outputs and a key locking enclosure. The ACPS shall have automatic switch over to stand-by batteries when AC power fails, have AC fail supervision which is a Form "C" contact closure upon loss of power and Fire Alarm Disconnect Input.

B. The ACPS's shall ONLY be installed in designated location, unless noted otherwise on the drawings.

C. The Access Control System shall monitor EACH ACPS provided for this project. Monitor EACH of the following terminals:
   1. Provide connection for (1) Access Control System Input within EACH ACPS that is provided for this project to monitor the 120vac power fail contacts.
   2. Provide connection for (1) Access Control System Input within EACH ACPS that is provided for this project to monitor the Low Battery supervision contacts.

D. Provide ACPS's for low voltage requirements of the Access Control System. This includes, but is not limited to the following items:
   1. Hard Wired Electric Latch Retraction Exit Devices (where applicable).
   2. Hard Wired Electric Locks (where applicable).
   3. Hard Wired Electric Strikes (where applicable).
   4. Request to Exit (REX) motion sensors (where applicable).
   5. Miscellaneous system related appurtenances.

E. Load Calculations:
   1. On the Shop Drawings, provide the load calculations for EACH ACPS and EACH device connected to EACH ACPS. Provide the following information for EACH device:
      a. The symbol, symbol description, letter designation of the cable type (as indicated on the Shop Drawings Wire Legend) that is used for the device, the conductor size, the estimated total length of cable, the estimated line loss (voltage drop), and the percentage of estimated line loss (voltage drop).
      b. EACH device calculation shall be within +/- 5% of 24vdc. Size the conductors for EACH device appropriately to maintain this requirement.
      c. The Maximum allowable load on EACH ACPS shall not exceed 80% of the Power Supply.

F. AlarmSAF: Model number CPS800C-UL/CSA-APD16X. Provide quantities as required.

2.7 SURGE SUPPRESSION

A. Provide (1) dedicated TVSS at EACH 120vac hard wired connection point.

2.8 BATTERY BACKUP FOR COMPLETE SYSTEM OPERATION

A. Battery back-up power shall be an integral part of the Access Control system.

B. Provide and install gel-cell, maintenance free batteries, as required. Provide battery back-up power for the entire Access Control system to provide one (1) hour of standby operation. Batteries shall be sized to provide at least 20% spare capacity.
   1. Provide quantities as required for maintaining or exceeding the submittal calculation requirements.

C. EACH Power Supply shall have automatic switch over to stand-by batteries when AC power fails. The power supply/charger shall be an integral portion of the control panel and/or power supply and be capable of charging fully discharged system batteries to 100% in 8 hours.

D. All batteries shall be placed inside a non-key lockable (Thumb-Turn Cam Lock), metal enclosure that is approved by the manufacturer.

E. Each battery shall have the date of installation written on a sticker attached to the battery with a permanent marker. The date shall be legible and clearly written in 1" numbers and be visible when the enclosure door is open.

2.9 FIELD DEVICES

A. Review the Access Control System Riser Diagram for Card Reader related equipment that is NOT shown on the drawings but shall be provided and installed for this project.

B. Prior to Bidding and Ordering ANY equipment, it shall be the responsibility of the Installing Vendor to confirm the Owners existing Access Cards will work on the specified equipment.

C. Card Readers: Provide one (1) Card Reader at EACH location shown on the drawings. Card readers shall connect to the Access Control Reader Interface (ACRI), for a fully functional system, as required.
   1. Card Readers shall meet the following minimum requirements:
      a. Coordinate with the owner as required for correct format or reader using the owner existing credentials.
      b. Provide HID model number RPK40 MULTICLASS SE Proximity Reader/Keypad or latest model for typical installations.
      c. Provide HID model number iCLASS SE U90 Long Range Reader or latest model for long range applications as shown on the drawings.

D. Door Position Switches (DPS's):
   1. DP/DT Recessed Mount:

E. Electrified Exit Device Power Supplies (EDPS):
   1. Elector-Mechanical locks shall be powered by and/or be compatible with the system Power Supplies. The following items provided by the Division 8 Door Hardware supplier, shall include, but not be limited to:
      a. Electrified Exit Device Power Supply (EDPS).
      b. Each EDPS shall include battery backup and connected to emergency power.

2.10 FLEXIBILITY IN SYSTEM DESIGN LAYOUT

A. Where indicated on the drawings, the Installing Contractor shall have the flexibility in their design to provide system equipment at any of the MDF/IDF's and/or Systems Plywood Back Board locations that are SPECIFICALLY identified on the drawings for this equipment.

B. Coordinate the exact location of field devices with the Architect, prior to installation.

2.11 SYSTEM CABLES, CONNECTORS, AND PATCH CORDS

A. ALL cables and conductors shall be the same size and color throughout EACH cable run. Such as from EACH field device to the terminals on the ACP, and Power Supply.
   1. The color of the overall cable jackets shall be white. If this color is not available, provide a permanent colored marking in white on the cable for every 10'-0" of cable for the duration of the cable run.

B. Cables/Conductors: The minimum allowable size conductors are specified below unless noted otherwise on the drawings. Use larger conductors and/or additional conductors, as required. Prior to Bidding, consult with the system Manufacturer that the following cable types are acceptable. It shall be the Installing Vendors responsibility to provide and install Manufacturer approved cables. Use the Manufacturers equivalent cable requirements, to meet all code requirements [such as "Wet Rated" or "Aerial Rated" cable] for the appropriate devices.
   1. Readers:
      a. Non-Plenum: West Penn 3021 (18/6oas) or approved equal.
         1) Provide additional conductors for Reader control of LED's as specified, as required.
      b. Plenum: West Penn 253186B (18/6oas) or approved equal.
         1) Provide additional conductors for Reader control of LED's as specified, as required.
   2. Door Position Switches (DPS's):
      a. Non-Plenum: West Penn 224 (18/2ns) or approved equal.
      b. Plenum: West Penn 25224B (18/2ns) or approved equal.
   3. Electro-Mechanical Locks and/or Electrified Exit Devices:
      a. Non-Plenum: West Penn 225 (16/2ns) or approved equal.
      b. Plenum: West Penn 25225B (15/2ns) or approved equal.
   4. ACP to EDPS.
      a. Non-Plenum: West Penn 77293 (18/2oas) or approved equal.
      b. Plenum: West Penn D25293 (18/2oas) or approved equal.

C. Connectors/Terminations:
   1. All connections must be soldered and taped individually. Wire nuts and crimp connectors are not allowed.
   2. Maintain all cable and system requirements.

2.12 TRAINING MATERIALS AND PROGRAMMING SURVEY

A. The Installing Contractor shall include in the Pricing of their Bid, the time and materials necessary to coordinate with Owner to discuss programming of door schedules, holiday schedules, general overall application of Access Control System for site, etc.

2.13 ADDITIONAL SYSTEM EQUIPMENT

A. See Part 3 of this specification for additional provision of system Equipment and/or Labor.

PART 3 - EXECUTION

3.1 GENERAL

A. Prior to rough-in, coordinate with the Architect for the exact location(s).

B. Install all equipment, devices, and cabling, per the manufacturer's recommendation.

C. Coordinate with the Owner for final programming and testing.

3.2 INSTALLATION

A. EACH CABLE RUN SHALL CONTINUOUS, WITHOUT ANY SPLICES, from the device to the terminal strip on the system panel or power supply. Any cable run that does not meet this requirement shall be replaced at no additional cost to the Owner.

B. Setup, connect, and configure the Servers/Workstations/Monitors per the manufacturer's recommendations to operate as intended.

3.3 MOUNTING HEIGHTS, LOCATIONS, AND SETTINGS

A. Prior to Bidding, the Installing Contractor(s) shall confirm and coordinate the actual quantities and locations of the power requirements with the electrical contractor see "Power Supplies" and "Flexibility in System Design Layout" listed elsewhere in this specification. At a minimum, provide 120vac wiring and connections to the ACP(s) and all power supplies as required for a fully functional system.

B. Prior to rough-in, coordinate with the Architect for the exact location(s).

C. Install EACH of the devices and/or equipment per the manufacturer's recommendation.

D. Access Control Panel's (ACP's):
   1. Install EACH ACP as recommended by the manufacturer.

E. Access Control Reader Interface (ACRI)
   1. Install EACH ACRI as recommended by the manufacturer.

F. Card Readers:
   1. Install EACH Card Reader:
      a. Flush to the wall surface.
         1) Surface mounted boxes are unacceptable.
      b. Coordinate with the Architect for exact mounting height.

G. Door Position Switches shall be installed on the latch side of the door, NOT the hinge side. At the upper portion of the door, on the top of the door (recessed mount), and 4" to 6" from the edge of the door. Install per manufacturers recommendations. After installation the door shall be able to close properly without rubbing on the door position switch.
   1. Recessed Mount Door Position Switches:
      a. Drill a hole for a snug fit per the manufacturer's instructions. Do NOT use hole saws or other tools that will not produce an exact diameter hole. Loose fitting door positions are not acceptable. It will be the responsibility of the Installing Vendor to satisfy the Architect for a proper installation.

H. Electric Locks and/or Electrified Exit Device Power Supply (EDPS):
   1. Electrified Exit Device Power Supply (EDPS) shall power the Electrified Exit Devices (ED), Electric Strikes and Magnetic locks as required.
   2. Mounting of EDPS's, wiring, and terminations of ALL Electro-Mechanical locks shall be by the Access Control System Installing Vendor/Contractor.
      a. Locate the EDPS in the designated location or at each door unless noted otherwise.

3.4 PROGRAMMING AND CONFIGURATION

A. Provide all programming as required to the satisfaction of the Owner.

3.5 AS-BUILTS

A. Update all documents provided in the Submittal and Shop Drawings to accurately reflect the actual equipment that was provided for this project, and the actual locations of the installed equipment.

B. The Installing Vendor shall include in the pricing of their bid, the time and materials to generate and create the documentation, as described below.
   1. Provide an “Equipment Information Sheet”, in the O & M manuals. At a minimum, from left to right, provide the following information;
      a. Manufacturers Name.
      b. Equipment Device Type (such as Workstation, Control Panel, etc.).
      c. Location (such as MDF room 103, or area of building).
      d. Floor Plans of equipment location, Wire Routes, and Door Numbers.

END OF SECTION 281300

SECTION 282300 – CLOSED CIRCUIT TELEVISION SYSTEM (CCTV)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions, Supplementary Conditions and Divisions 0 and 1 Specification Sections, apply to work of this Section.

1.2 SCOPE AND RELATED DOCUMENTS

A. The project CCTV System shall be an addition the Owner's existing Department wide CCTV System. The Installing Vendor shall provide new equipment at the project site and include the necessary programming for viewing, recording, and playback control functions of the new Cameras on the existing CCTV System.
   1. The Installing Vendor shall coordinate with Owner to provide recommendations for storage requirements to accommodate recorded video per Owner's standards.

B. All cameras shall be Day/Night cameras.

C. The CCTV System shall utilize the new data infrastructure cabling. Provide Category 6 cabling, jacks, patch panel, patch cords, and biscuit blocks manufactured by Leviton/Berk-tek. Test to industry standards and provide test reports in pdf with As-Built drawings at completion of project. Provide manufactures warranty.

D. The Installing Vendor shall configure the system as described and shown. All Closed-Circuit Television equipment shall conform to IEEE 802.3af specifications.

E. Contractual information, guidelines, requirements, or other work specified to provide a fully functional system for Section 282300.

1.3 QUALITY ASSURANCE

A. The Installing Contractor shall provide a Staff Commitment Letter in the Submittal and Shop Drawings submittal package, that states the following:
   1. The Installing Contractor shall identify and designate two (2) Manufacturer Trained and Certified Installing Contractor Technicians for the duration of this project.
      a. To be deemed a qualified Installing Contractor for this project, a minimum of two (2) technicians shall hold the following Manufacturers Certifications PRIOR to issuing submittals for this project:
         1) The Installing Contractor shall submit copies of the above designated technicians Manufacturer Certification(s).
         2) Sony CCTV Cameras.
         3) Genetic CCTV System Software.
      b. One of the Technicians shall be the designated LEAD TECHNICIAN.
         1) This individual shall be responsible for no less than 80% of the technical portion of this project.
      c. The other Technician shall be the designated BACK-UP TECHNICIAN, who may assist the Lead Technician with the project.
         1) This individual shall be responsible for no greater than 20% of the technical portion of this project.
      d. The Installing Contractor shall submit copies of the above designated technicians Manufacturer Certification(s).

2. The Installing Contractor shall identify and designate a Project Manager whose responsibilities will include, but are not limited to:
    a. The Primary Point of Contact between the Owner and the Installing Contractor. It is acceptable for this person to be the Lead Technician.
    b. Scheduling of technicians to perform the work on the Owners premises.
    c. Scheduling of any meetings.
        1) All meetings shall be on the Owners premises.
    d. Scheduling and coordination of any deliveries to the Owners premises.

B. The system, devices, and equipment, shall be manufactured under the appropriate category by Underwriters' Laboratories, Inc. (UL), and shall bear the UL label. Partial or pending listings are not acceptable. The installation of EACH device and/or component shall be in compliance with the UL listing. The system, devices, and equipment shall fully comply with the latest issue of these standards, where applicable, which includes, but is not limited to:
1. National Fire Protection Association (NFPA) - USA:
    a. NFPA 70 National Electrical Code
    b. NFPA 72 National Fire Alarm Code
2. Underwriters Laboratories Inc. (UL) - USA:
    a. UL 50 NEMA 4X Enclosures for Electrical Equipment
    b. UL 1950 Electrical Safety
3. Meet or exceed Building Codes and Standards:
    a. Local Authority Having Jurisdiction (AHJ) Requirements
    b. State:
        1) WAC 51-20 Washington Barrier Free Regulations
    c. National:
        1) National Electrical Code (see NFPA 70)
    d. International:
        1) International Building Code
        2) International Electrical Code (see NFPA 70)

C. Approvals:
1. The system shall have proper listing and/or approval from the following nationally recognized agencies:
    a. UL Underwriters Laboratories Inc.
    b. ULC Underwriters Laboratories Canada.
    c. IP66 Water/Dust Protection.
    d. IEC 60068-2-75 Impact Protection.

D. Service and Software Modifications:
1. Provide the services of a Manufacturer Certified/Authorized Technician to perform all system software modifications, upgrades or changes.
2. Provide all hardware, software, programming tools and documentation necessary to modify the system on-site. Modification includes addition and/or deletion of system devices, changes to system operation, and custom label changes for devices. The system structure and software shall place no limit on the type or extent of software modifications on-site.

E. Pre-Construction Meeting:
1. Coordinate a mandatory meeting through the General Contractor with the Electrical Contractor, the CCTV System Contractor and Owner’s Representative(s) to discuss camera mounting requirements, camera field of views, storage requirements for the server, camera naming standards and other requirements as necessary from the Owner. Allow up to two (2) hours for this meeting.

1.4 SUBMITTALS AND SHOP DRAWINGS:

A. Refer to “As-Built Drawings” for additional requirements.

B. Data Sheets and other documentation.
1. Installing Contractor Staff qualifications. Provide the following information:
a. Provide a copy of no less than two (2) separate technicians (from the Installing Contractors local office) Factory Certifications for the following items:
1) Sony CCTV Cameras.
2) Genetic CCTV System Software.
b. Provide the Installing Contractor Staff Commitment Letter as described in “Quality Assurance” listed elsewhere in this specification.
2. The Materials List shall identify the specification section, quantity of each item, the manufacturer, model number, and brief description of each item.
a. Provide data sheets for each item listed on the materials list.
b. Provide indicating arrows on data sheets that have multiple items on the data sheet.

C. Shop Drawings shall include the following items:
1. The CCTV System Riser Diagram shall show the IDF.
a. Show each system component and device connected to and installed in the IDF.
2. CCTV System Device naming shall meet the owners labeling standards. Owner acceptance of labeling and camera numbers is required.
3. EACH camera shall be identified by a Camera ID #.
a. EACH Fixed exterior camera shall show the cameras Field-of-View (two lines in a “V” shaped pattern, projecting outwards from the camera).
b. Each Interior camera shall show direction of view with an arrow projecting outwards from the camera.
c. The Shop Drawings shall show the intended Field-of-View for all Fixed Cameras. Use light “hatching” to show this area. This shall be shown on the Site Plan(s).
1) Site Plans: Show all exterior devices on the structure.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Genetec manufactures the CCTV System software that is used for the basis of design for this specification.
1. Substitutions will not be approved on this project.

B. Sony manufactures the CCTV cameras that is used for the basis of design for this specification
1. Substitutions will not be approved on this project.

C. Other than the CCTV System software, the design, devices and/or wiring arrangement shown on the drawings represent that based on various equipment manufacturers outlined in this specification. Any changes resulting from differences between the specified product and other manufacturers or substitute manufacturers, shall be the responsibility of the Installing Vendor.
1. Substitutions of the specified equipment and/or supplier will be considered provided that sufficient documentation is provided to the Engineer which certifies that the equipment and or supplier qualification meets the requirement of these specifications. Any request for substitution shall be submitted by the Installing Vendor in writing so as to be received by the Engineer not later than (10) days prior to the bid due date. Approval by the Engineer will be issued by addendum prior to the bid date.

D. Provide all equipment as defined in the specification(s) and shown on the drawings.

E. Refer to PART 1 for any equipment that is not specifically defined.

2.2 CAMERA LICENSING

A. CCTV System Software:
1. The Installing Vendor shall provide any and all legally required additional software license(s) by the CCTV System manufacturer and other related software.
2. Camera Licensing: Verify Licensing requirements for each camera. Provide individual IP Camera Licenses for EACH camera view on EACH camera provided as required per the software manufacture for this project. Provide quantities as required.

B. Coordinate with the Owners IT Department and Critical Systems Specialist, as required.

2.3 NETWORK RELATED EQUIPMENT

A. Router(s)/Switch(s):
1. Provide connection to Owner's Ethernet Switch(s) at EACH location indicated on the drawings for the CCTV system. The Owner is to provide the necessary switches programming to establish connection to the LAN/WAN.
a. Coordinate with the Owners IT Department as required.

B. Data Infrastructure:
1. Provide EACH of the following items at EACH location required:
a. Cat6 Cable Infrastructure.
b. Patch Panels.
c. Cable management.

C. ALL Racks shall be provided by Owner. Coordinate with Owners IT Department as required for the Installing Vendor to install the System equipment within these racks.

2.4 FIELD DEVICES

A. Cameras:
1. For each camera location, provide the required mounting hardware and camera as shown on drawings. All cameras are surface mounted with backboxes unless noted otherwise on drawings.
2. Interior single Fixed IP 1080P Dome Camera:
a. The camera shall be the Sony 1080p model number SNC-XM632.
b. Surface mount for each In-Ceiling installation. Provide backbox as required. Backbox shall be supported in accessible ceiling areas (cameras shall not be secured by the tile alone).
3. Exterior single Fixed IP 1080P Dome Camera:
a. The camera shall be the Sony 1080p model number SNC-DH280.
b. Provide Gooseneck Wall Mount kit with Pendant Mount Adaptor as required. Sony model number UNI-MDB3.
4. Exterior single Fixed IP 4K Dome Camera:
a. The camera shall be the Sony model number SNC-VM772R.
b. Provide Wall Mount Bracket Sony model number UNI-MDB7 with Pendant Mount Bracket Sony model number UNI-MDPVM772 as required.

2.5 SYSTEM CABLES, CONNECTORS, AND PATCH CORDS

A. Include the "Spare Capacity" requirements listed elsewhere within this specification, for the calculations and sizing requirements of the cables and/or conductors.

B. Cables/Conductors: The minimum allowable size conductors are specified below. Use larger conductors and/or additional conductors, as required. Use the Manufacturers equivalent cable requirements, to meet all code requirements [such as “Wet Rated” or “Aerial Rated” cable] for the appropriate devices.
   1. CAT6 cable(s):

C. Connectors/Terminations: Use the manufacturer approved terminations as required.
   1. CAT6 cable(s):
      a. Provide Yellow cable.

D. Patch Cords: Size EACH cable length to provide ease of maintenance, while not leaving excessive slack.
   1. CAT6 cable(s):
      a. Provide Yellow Patch Cables.

2.6 TRAINING MATERIALS AND PROGRAMMING SURVEY

A. Interview the Owner for no less than a minimum of one (1) 2-Hour session. Allow for additional time if required, at no additional cost to the Owner. The Installing Vendor LEAD TECHNICIAN AND BACKUP TECHNICIAN shall be present for this meeting. The purpose of this Interview is to verbally discuss all of the feature sets of the system. The dialog shall describe the benefits for implementing each of the systems features, thus allowing the Owner to make an informed decision on the how they can maximize the functional operation of their system.
   1. Prior to starting the Interview process with the Owner, have EACH attendee fill out a “Sign in Sheet” listing EACH attendee’s name, department they work in, and their phone number.
   2. Provide a detailed list of features with a document titled “Section 282300 CCTV System – PRE-INTERVIEW of Owner Requested Systems Programming Sheet”. This shall be provided in the “Submittal and Shop Drawings” with the Section 270000 submittal. This shall be used as the basis of discussion for the Interview process.
   3. For Bidding Purposes, the Installing Vendor shall be expected to program the system to Industry Standards, based on a project of this size, scope, typical functionality for this market segment, and as described throughout this specification.
      a. Review the testing requirements specified elsewhere within this specification for additional information.

2.7 ADDITIONAL SYSTEM EQUIPMENT

A. See Part 3 of this specification for additional provision of system Equipment and/or Labor.

PART 3 - EXECUTION

3.1 GENERAL

A. Prior to rough-in, coordinate with the Owner for the exact location(s).

B. Install all cabling, devices, and/or equipment per the manufacturer’s recommendation.

3.2 INSTALLATION

A. EACH CABLE RUN SHALL CONTINUOUS, WITHOUT ANY SPLICES, from the device to the terminal strip on the system patch panel(s). Any cable run that does not meet this requirement shall be replaced at no additional cost to the Owner.

B. Setup, connect, and configure the Workstations/Monitors per the manufacturer's recommendations to operate as intended. Load, configure, and test the software for a fully functional system.

3.3 MOUNTING HEIGHTS, LOCATIONS, AND SETTINGS

A. General Camera Information:
1. Prior to rough-in, examine the surrounding area and the cameras intended Field-of-View (FoV) (from the perspective of where the camera is to be installed). Cameras shall be installed with an unobstructed FoV. This includes but is not limited to; existing objects, such as lights, exit signs, or other physical impediments.
2. Any camera that has the final and approved FoV that is obstructed will require the Installing Vendor to relocate the camera, at no additional cost to the Owner.
3. Coordinate with the Engineer and all trades to ensure that the cameras FoV will not be obstructed. Prior to relocating any camera, obtain written direction from the Engineer.
   a. Coordinate with the Owner to relocate banners, art, or anything else that may block the cameras FoV and/or mounting requirements.
   b. Wall Mount Cameras shall be installed at the following locations:
      1) At all areas as shown on the drawings.

B. Camera Mounting:
1. All cameras shall be flush to the ceiling or wall surface, unless otherwise noted.
2. Exterior Camera Mounting Requirements:
   a. Reinforce the Structure and Mounting Surface to properly secure the mounting of Exterior Cameras, as required.
   b. Install per camera manufacturer recommendations.
3. Interior Camera Mounting Requirements:
   a. Install per camera manufacturer recommendations.

C. Camera Focusing:
1. After the CCTV System has been powered up, cameras have been back focused (where applicable) and configured, then the camera shall then be positioned as discussed during the Interview with the Owner, which is described in "Training Materials and Programming Survey" listed elsewhere within this specification.
   a. Fixed Cameras shall be adjusted and focused for the intended Field of View (FoV). Readjust the cameras to the Owner's needs, as required.

3.4 AS-BUILTS

A. Provide all As-Built documentation as defined in Section 270000 Low Voltage Systems General Requirements and listed elsewhere in this specification.

B. Update all documents provided in the Submittal and Shop Drawings to accurately reflect the actual equipment that was provided for this project, and the actual locations of the installed equipment.

C. The Installing Contractor shall include in the pricing of their bid, the time and materials to generate and create the documentation, as described below.
1. Provide an "Equipment Information Sheet", in the O & M manuals. At a minimum, from left to right, provide the following information;
   a. Each row shall have an "Item #".
   b. Manufacturers Name.
   c. Equipment Device Type (such as Workstation, Control Panel, etc.).
   d. Location (such as MDF room 240, or area of building).
   e. IP Address.
   f. Software Name.

g. Software Version that is installed on the device.
h. List the “Highest Level” configurable password for EACH device.
i. List “EACH System Operator” password.
j. List all other password settings for EACH device.

D. Provide ALL CD(s)/DVD(s) of installation software, legally required software licenses, and the associated documentation to reinstall all portions of the software that is running on the new and/or existing Server/Workstations.

E. Upon final acceptance of the CCTV system by the customer, provide a letter of acceptance from the owner on the owners’ letter head accepting the CCTV system as installed and that the CCTV system is fully operational and all training requirements have been met.

END OF SECTION 282300

SUBSTITUTION REQUEST FORM

To: Architect: Rice Fergus Miller Architecture & Planning, PLLC
275 5th Street, Suite 100
Bremerton, Washington 98337

Contractor: _____

We hereby submit for consideration the following product instead of specified item for above project:

Section 095123 Paragraph 2.3 Specified Item Armstrong Optima

Proposed Substitution: Rockfon Sonar

Attachments: (If not applicable, write N/A left of item number.)

No. 1: Complete product data.
No. 2: Drawings showing dimensional changes and other change to drawings.
No. 3: Complete description of all changes to specifications.
No. 4: Description of effect on other trades, other contracts, and contract completion date.
No. 5: List of differences between proposed and specified items.
No. 6: List of names and addresses of three similar projects on which product was used, date of installation, and Architect's name and address.
No. 7: Cost impact.

Undersigned attests function and quality equivalent or superior to specified item.

Submitted by: (Person and Firm) Angela McDaniel- Valhalla Construction Products

Date 3/5/2018 Phone 253-301-3831 Signature 

Acceptance by Architect:

By:
Date:
Remarks:

Accepted
Accepted as Noted
Not Accepted

SECTION

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SUBSTITUTION REQUEST FORM

To: Architect: Rice Fergus Miller Architecture & Planning, PLLC
275 5th Street, Suite 100
Bremerton, Washington 98337

Contractor: _____

We hereby submit for consideration the following product instead of specified item for above project:

Section 095123 Paragraph 2.4 Specified Item No-Name- 2x4 SQ Lay-In

Proposed Substitution: Rockfon Artic

Attachments: (If not applicable, write N/A left of item number.)

No. 1: Complete product data.
No. 2: Drawings showing dimensional changes and other change to drawings.
No. 3: Complete description of all changes to specifications.
No. 4: Description of effect on other trades, other contracts, and contract completion date.
No. 5: List of differences between proposed and specified items.
No. 6: List of names and addresses of three similar projects on which product was used, date of installation, and Architect's name and address.
No. 7: Cost impact.

Undersigned attests function and quality equivalent or superior to specified item.

Submitted by: (Person and Firm) Angela McDaniel- Valhalla Construction Products

Date 3/5/2018 Phone 253-301-3831 Signature 

Acceptance by Architect:

By:
Date:
Remarks:

Accepted
Accepted as Noted
Not Accepted

SECTION

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SUBSTITUTION REQUEST FORM

To: Architect: Rice Fergus Miller Architecture & Planning, PLLC
275 5th Street, Suite 100
Bremerton, Washington 98337

Contractor: _____

We hereby submit for consideration the following product instead of specified item for above project:

Section 095123 Paragraph 2.5 Specified Item Metal Suspension

Proposed Substitution: Chicago Metallic Seismic 15/16

Attachments: (If not applicable, write N/A left of item number.)

No. 1: Complete product data.
No. 2: Drawings showing dimensional changes and other change to drawings.
No. 3: Complete description of all changes to specifications.
No. 4: Description of effect on other trades, other contracts, and contract completion date.
No. 5: List of differences between proposed and specified items.
No. 6: List of names and addresses of three similar projects on which product was used, date of installation, and Architect's name and address.
No. 7: Cost impact.

Undersigned attests function and quality equivalent or superior to specified item.

Submitted by: (Person and Firm) Angela McDaniel- Valhalla Construction Products

Date 3/5/2018 Phone 253-301-3831 Signature 

Acceptance by Architect:

By:
Date:
Remarks:

Accepted
Accepted as Noted
Not Accepted

SECTION

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SIGN-IN SHEET

Project Name:	South King Fire & Rescue Facility Improvements Station 64	Date:	March 8, 2018
Architect:	Rice Fergus Miller	Location:	Station 64

Name	Phone	Email
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Kent Dykstra	206-334-9838	kdykstra@asademo.com
Mike Werlech	206-937-2208	b.ds@mikewerlechconstruction.com

SIGN-IN SHEET

Project Name:	South King Fire & Rescue Facility Improvements Station 64	Date:	March 8, 2018
Architect:	Rice Fergus Miller	Location:	Station 64

Name	Phone	Email
BILL ELLIS	206 423 9604	WHEELERPTG @ AOL.COM
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