South King Fire and Rescue

Station 63 Facility Improvements

ADDENDUM #1

December 16, 2016

TO ALL BIDDERS:

The Bid Documents issued **December 1, 2016** 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 075419 THERMOPLASTIC MEMBRANE ROOFING:
   a. Section 3.03, second paragraph, REVISE "…metal roof…" to read "…membrane roof/insulation…".

DRAWINGS

ARCHITECTURAL

ITEM 2.	A10.01	See clouded revisions on attached drawing.
ITEM 3.	A21.01	Room 112, ADD note to existing register grille "REMOVE (E) EXIST REGISTER GRILLE".
ITEM 4.	A21.01	Room "SR5 108", ADD Keynote "D3".
ITEM 5.	A21.01	Room "SR5 108", ADD note "DEMO (E) FLOOR GRILL PER MECH, FILL OPNG WITH CONCRETE FLUSH WITH (E) FLOOR SLAB, TYP.
ITEM 6.	A21.12	See clouded revisions on attached drawing.
ITEM 7.	A21.11	Room "SR5 108", ADD New carpet CPT-1 and base RB-1 shall be installed.

CIVIL

ITEM 8.	C2.00	See clouded revisions on attached drawing.
ITEM 9.	C3.01	See clouded revisions on attached drawing.

STRUCTURAL

ITEM 10.	S21.11	See clouded revisions on attached drawing.
ITEM 11.	S22.11	See clouded revisions on attached drawing.

ITEM 12. S23.11 See clouded revisions on attached drawing.
ITEM 13. S40.01 See clouded revisions on attached drawing.
ITEM 14. S40.02 See clouded revisions on attached drawing.
ITEM 15. S50.01 See clouded revisions on attached drawing.

MECHANICAL

ITEM 16. M00.03 **Add** Note 'C' to Energy Recovery Ventilator Schedule.
C. CONSTANT VOLUME FAN CONTROL WITH DISCHARGE AIR TEMPERATURE HEATING CONTROL.

ITEM 17. M00.03 **Revise** Fan Schedule EF-1 ESP from 0.375 to 0.5.

ITEM 18. M00.03 **Revise** Fan Schedule EF-2 ESP from 0.5 to 0.375.

ITEM 19. M00.03 **Revise** Fan Schedule EF-2 ELEC VOLT/PH from 208/3 to 115/1.

ITEM 20. M00.03 **Revise** Split System Heat Pump and A/C Schedule. See revised M00.03.

ITEM 21. M20.10 **Revise** location of existing floor grille to be removed, see MSK-1.

ITEM 22. M21.11 **Revise** location of FC-3 and FC-4, see MSK-2.

ITEM 23. M21.11 **Add** note to refrigerant piping in fitness room, "MOUNT AS HIGH AS POSSIBLE BELOW BEAMS".

ITEM 24. M21.12 **Remove** FC-1 and **replace** with FC-1A and FC-1B, see MSK-3.

ITEM 25. M40.01 **Revise** VRF Diagram. See revised M40.01.

PLUMBING

ITEM 26. P00.02 **Replace** description for decon sink S-1 with the following.

94" LONG (FIELD VERIFY) X 27-1/2" DEEP, 14 GAUGE 304 STAINLESS STEEL, FULL LENGTH 8" HIGH BACKSPLASH, (2) 24" X 18" X 14" DEEP BOWLS, LEFT AND RIGHT END DRAINBOARDS.
DRAINBOARDS SLOPE TO SINK.
STAINLESS STEEL TUBULAR LEGS AS REQUIRED FOR SUPPORT.
PROVIDE FAUCET ON BACKSPLASH CENTERED ABOVE BOWLS TO MATCH SCHEDULED FAUCET. PROVIDE HOLE ON BACKSPLASH ABOVE RIGHT

DRAINBOARD FOR THE EYEWASH.
CONFIRM ALL DIMENSIONS WITH ARCHITECT PRIOR TO ORDERING.

ITEM 27. P20.13 **Demo** existing roof drain, see PSK-1.

ITEM 28. P21.11 **Revise** condensate piping, roof and overflow drainage. See revised P21.11.

ITEM 29. P21.12 **Revise** condensate piping, roof and overflow drainage. See revised P21.11.

ELECTRICAL

ITEM 30. E101 Construction Note 2 –REVISE to read as follows: "Provide cutting, patching, trenching and backfill of existing asphalt & concrete. See Civil drawings for cutting and patching details."

ITEM 31. E131 ADD the following note to the emergency phone at gridline 2: "Provide ½" conduit to above accessible ceiling in Lobby 113. Route (1) Category 5E wire back to the data rack in Room 102 for connection to the telephone system."

ITEM 32. E131 REVISE callout in Electrical Room 120 from "server disc." To "Service Disconnect Switch".

ITEM 33. E601 REVISE voltage for EF-2 from 208-volt – 3 phase to 120-volt – 1 phase. Circuit to B-26. Provide 20 amp – 1 pole circuit breaker.

ITEM 34. E601 REVISE FC-1 to be FC-1a and FC-1b. Provide 208 volt – 1 phase connection to each. Circuit both to B-29,31.

ITEM 35. ED1.11 REVISE demolition note 1 to read as follows: "Disconnect and remove existing light fixtures in this area to allow for new ductwork, structural work and new ceiling work. Maintain existing lighting circuit for reuse. Reinstall existing light fixtures after all new work is complete."

ITEM 36. ED141 ADD the following note to the existing conduits between Gridlines 5 & 6, South of EF-1 (see sheet A21.02 for location): "Disconnect existing conduits and temporarily remove to allow for new roof to be installed. Reinstall conduits on Bline durablock with unistrut on new roof. Reconnect conduits to existing systems."

ITEM 37. E101 Provide a ¾" conduit from the new fire alarm panel out to the post indicator valve at the southwest corner of the property. See sheet C2.00, construction note 5 for location.

ITEM 38. FA002 Provide a fire alarm connection to the tamper switch at the post indicating valve.

SUBSTITUTION REQUESTS

ARCHITECTURAL

ITEM 39. Section – 089200 "Louvered Equipment Enclosures".

a. APPROVED.

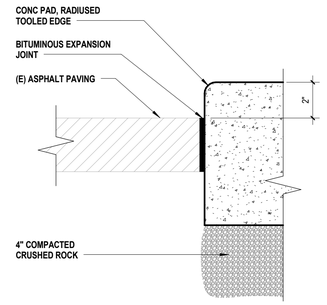
ATTACHMENTS

1. Revised Architectural Drawing A10.01.
2. Revised Architectural Drawing A21.11.
3. Revised Architectural Drawing A21.12.
4. Revised Civil Drawing C2.00.
5. Revised Civil Drawing C3.01.
6. Revised Structural Drawing S21.11.
7. Revised Structural Drawing S22.11.
8. Revised Structural Drawing S23.11.
9. Revised Structural Drawing S40.01.
10. Revised Structural Drawing S40.02.
11. Revised Structural Drawing S50.01.
12. Revised Mechanical Drawing M00.03.
13. Revised Mechanical Drawing M40.01.
14. Revised Plumbing Drawing P21.11.
15. Revised Plumbing Drawing P21.12.
16. Mechanical Sketch MSK-1.
17. Mechanical Sketch MSK-2.
18. Mechanical Sketch MSK-3.
19. Plumbing Sketch PSK-1.
20. Approved Louvered Equipment Enclosure Substitution Form.
21. Pre-Bid Walkthrough Sign in Sheet.

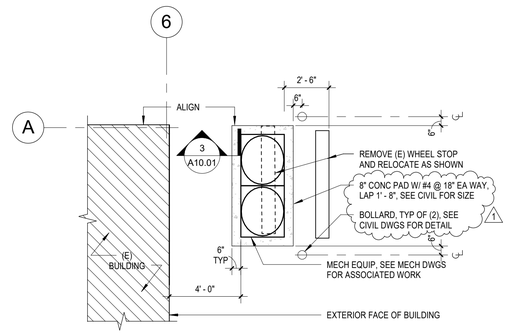
END OF ADDENDUM #1

GENERAL NOTES

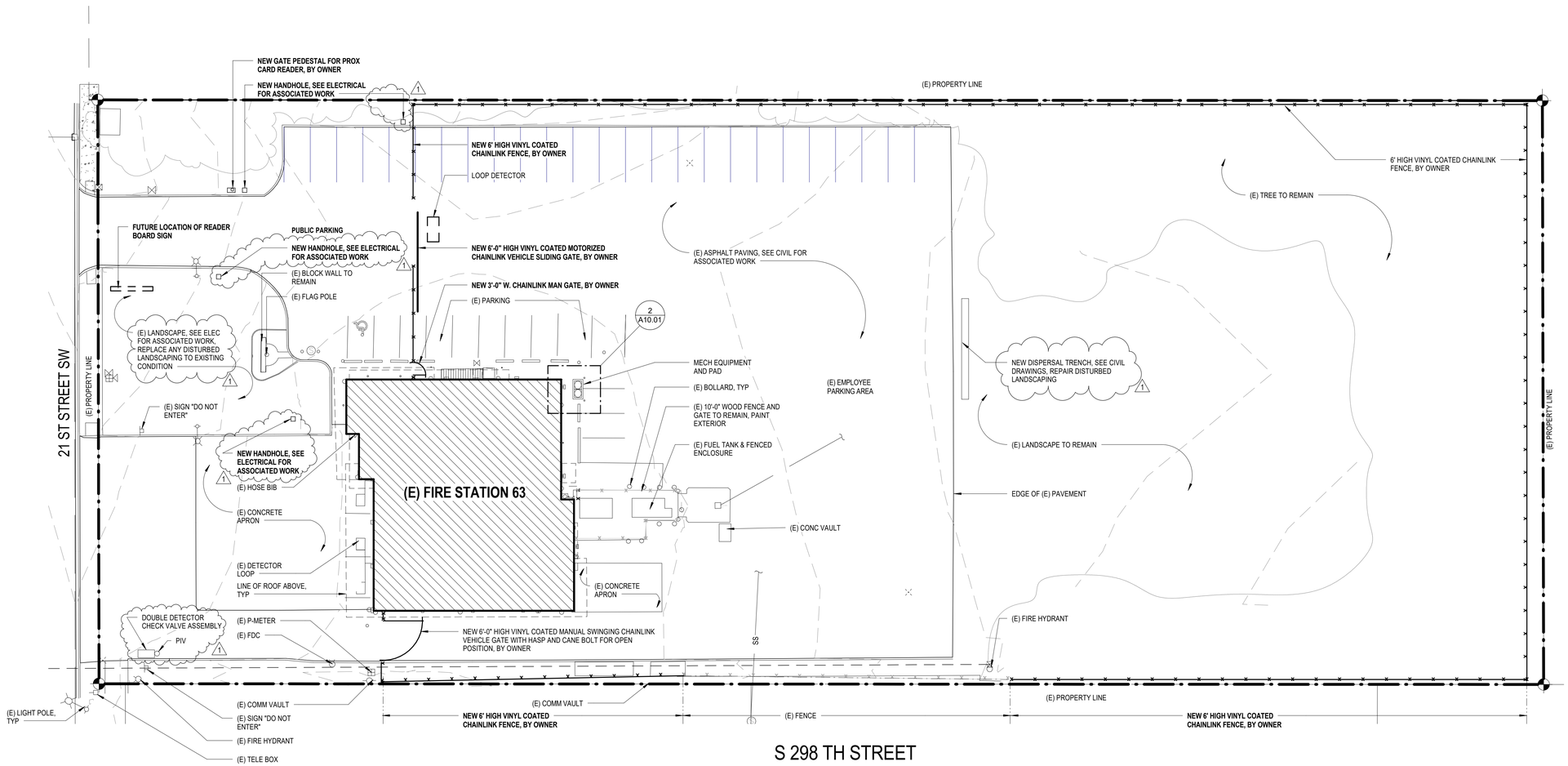
1. SEE CIVIL AND ELECTRICAL DRAWINGS FOR ADDITIONAL AND ASSOCIATED WORK. REPAIR DISTURBED LANDSCAPING TO EXISTING CONDITION. 1



3 DETAIL - EQUIPMENT PAD EDGE
3" = 1'-0"



2 ENLARGED SITE PLAN
1/4" = 1'-0"



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

RICE ARCHITECTURE & PLANNING fergus MILLER
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
FAX 792-1385
INFO@RFMARCH.COM

4794 REGISTERED ARCHITECT
DAVID A. FERGUS
STATE OF WASHINGTON

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 63
33414 S 21st AVE SOUTH
FEDERAL WAY, WA

PROJECT # 2015137

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ISSUED: DECEMBER 1, 2016

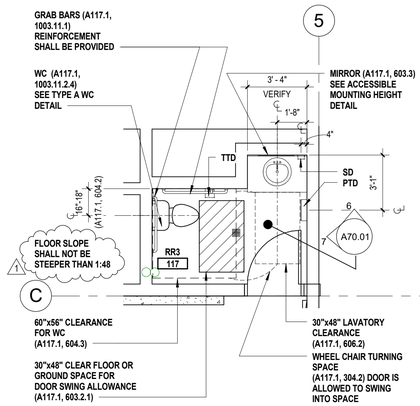
REVISION SCHEDULE

1	ADDENDUM #1	12/16/2016

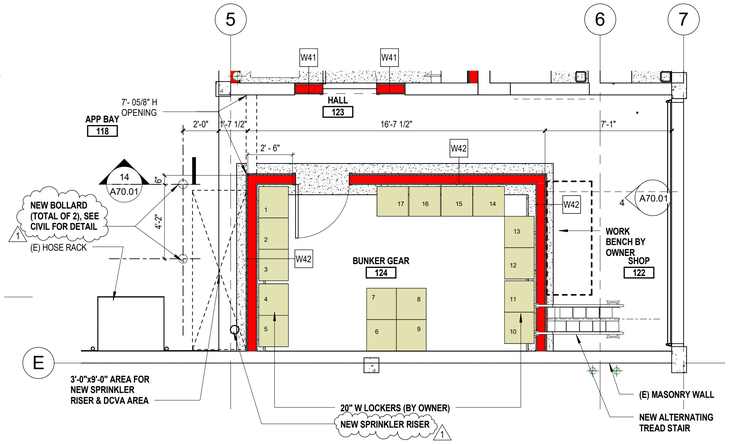
ARCHITECTURAL SITE PLAN

SHEET:

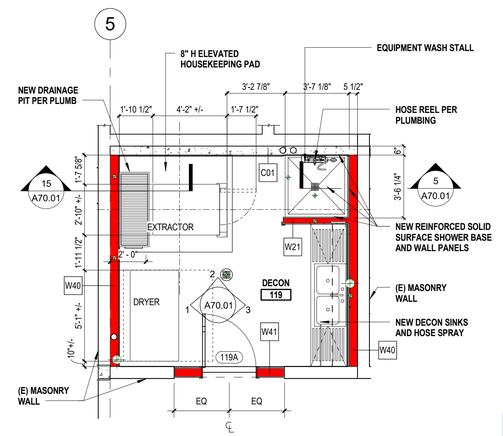
A10.01



N 5 ENLARGED PLAN - RR3 117
1/4" = 1'-0"



N 4 ENLARGED PLAN - BUNKER GEAR
1/4" = 1'-0"



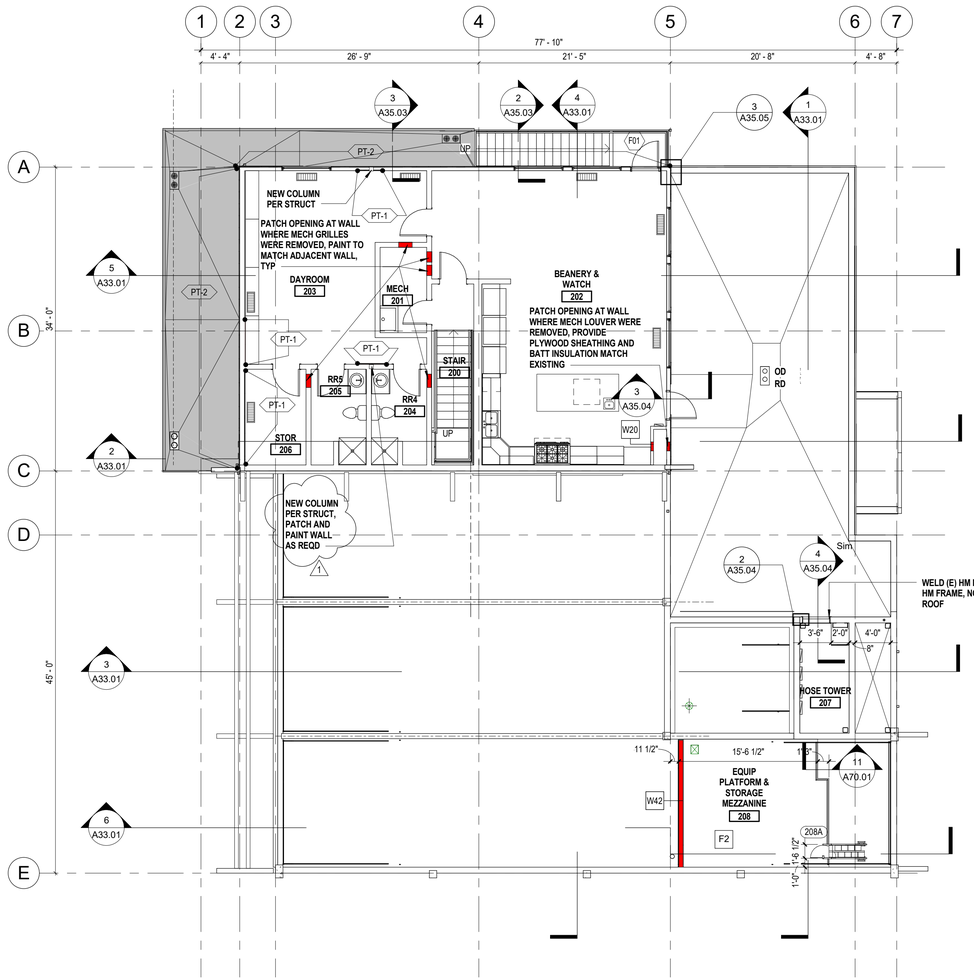
N 3 ENLARGED PLAN - DECON ROOM
1/4" = 1'-0"

GENERAL NOTES - FLOOR PLAN

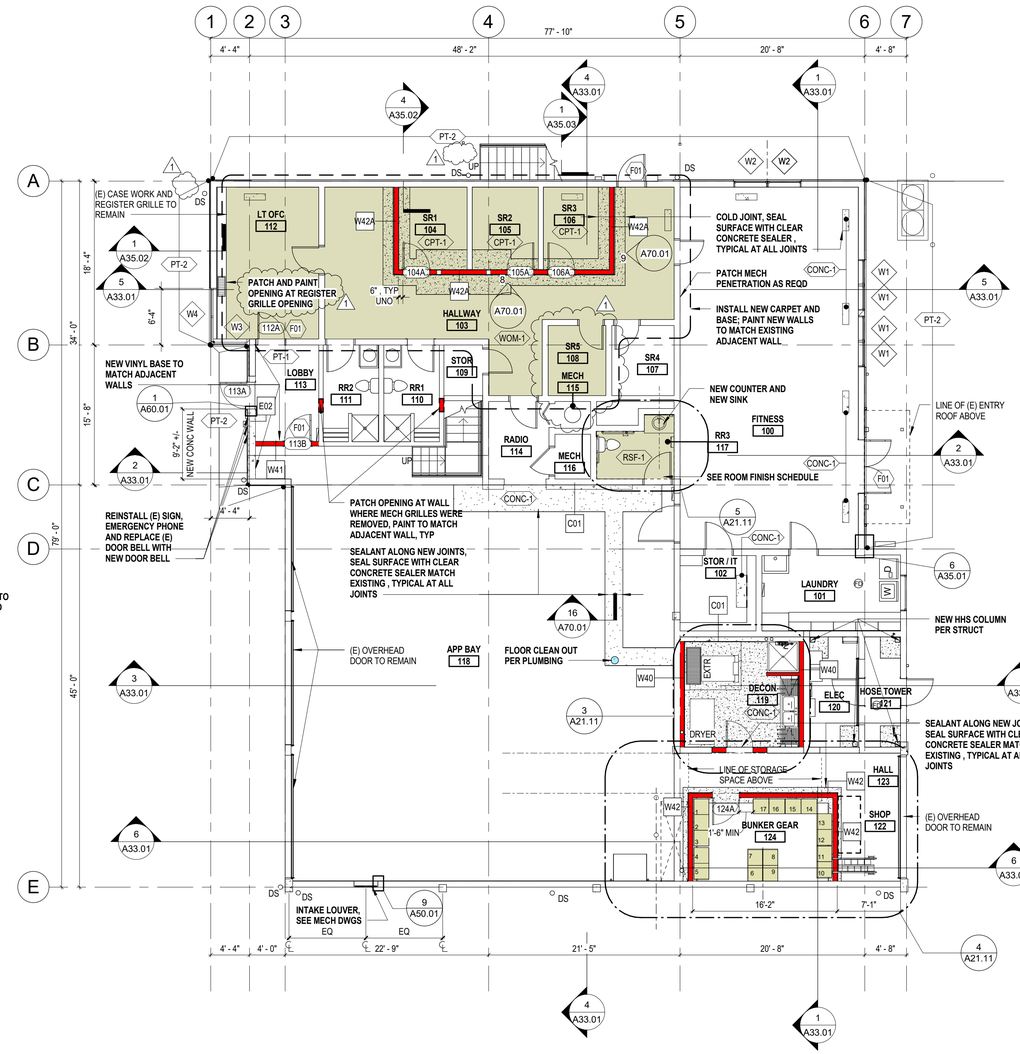
1. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE
2. FOR WALL, FLOOR AND ROOF ASSEMBLIES, SEE SHEETS A01.01
3. FOR WINDOW SCHEDULE AND DETAILS, SEE SHEET A50.01
4. FOR DOOR SCHEDULE AND DETAILS, FINISH SCHEDULE AND FINISH LEGEND, SEE SHEET A60.01
5. ALL FINISHED DOOR OPNG ARE LOCATED 6" FROM WALL UNLESS NOTED OTHERWISE
6. DIMENSIONS INDICATED AS "MIN" OR "CLEAR" ARE FROM NEAREST FINISH SURFACE INCLUDING TRIM.
7. PATCH ALL PENETRATIONS RELATED TO THE NEW OR EXISTING SPRINKLER SYSTEM. FINISH TO MATCH ADJACENT CONSTRUCTION. SEE SPRINKLER SUBMITTAL FOR ASSOCIATED WORK.

KEY NOTES - FLOOR PLAN

NOTE #	DESCRIPTION
F01	PATCH AND PAINT EXISTING WALLS AFTER THE INSTALLATION OF NEW ACCESS CONTROL SYSTEM IS COMPLETED (BY OTHERS), COORDINATE WITH THE INSTALLER



N 2 MEZZANINE
1/8" = 1'-0"



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

RICE ARCHITECTURE & PLANNING fergus MILLER
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
FAX 792-1385
INFO@RFMARCH.COM

4794 REGISTERED ARCHITECT
DAVID A. FERGUS
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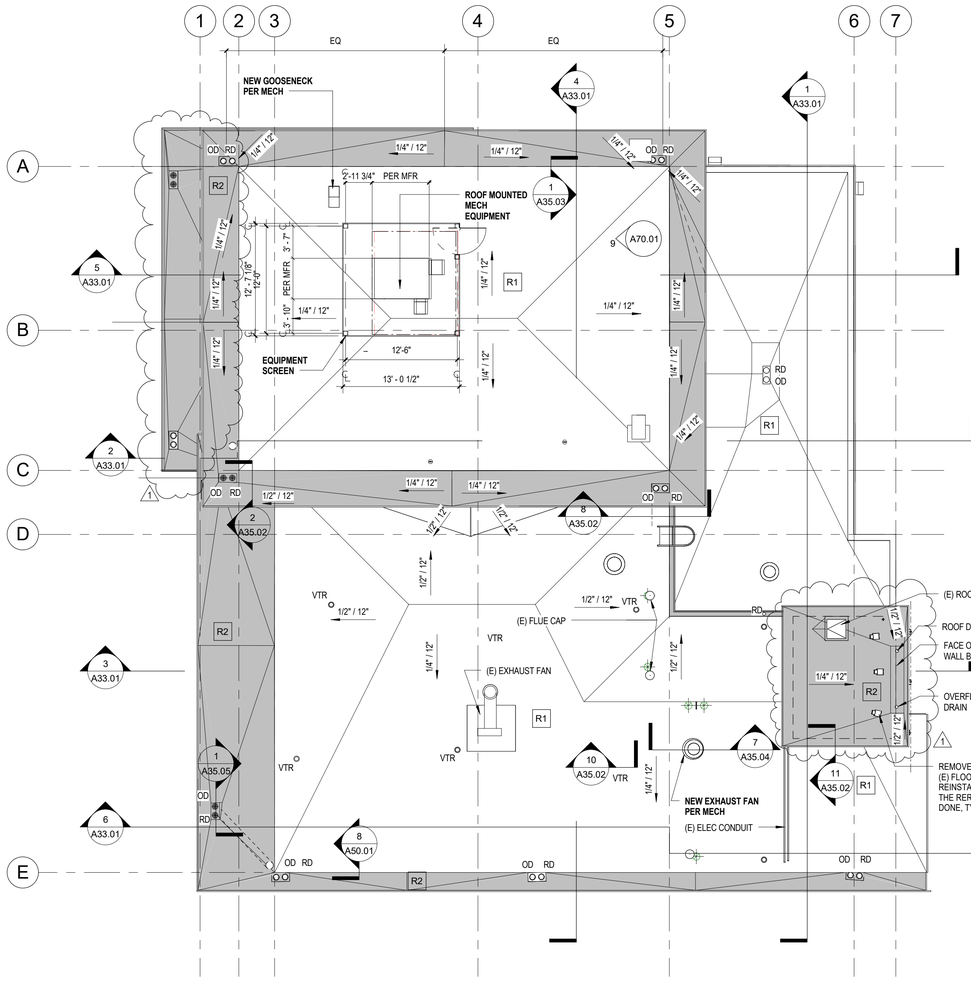
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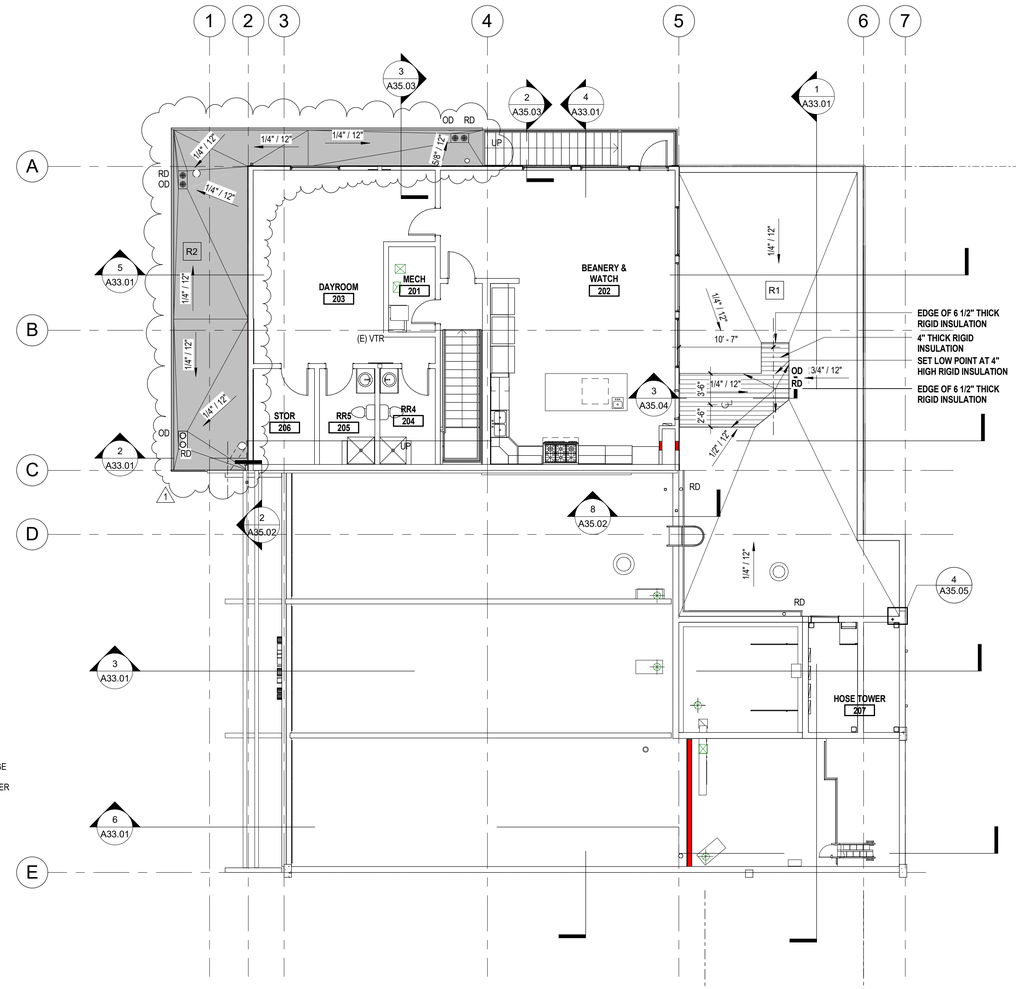
FLOOR PLANS

SHEET:

A21.11



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



N 1 LEVEL ROOF PLAN - MEZZANINE
1/8" = 1'-0"

RICE ARCHITECTURE & PLANNING fergus MILLER
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
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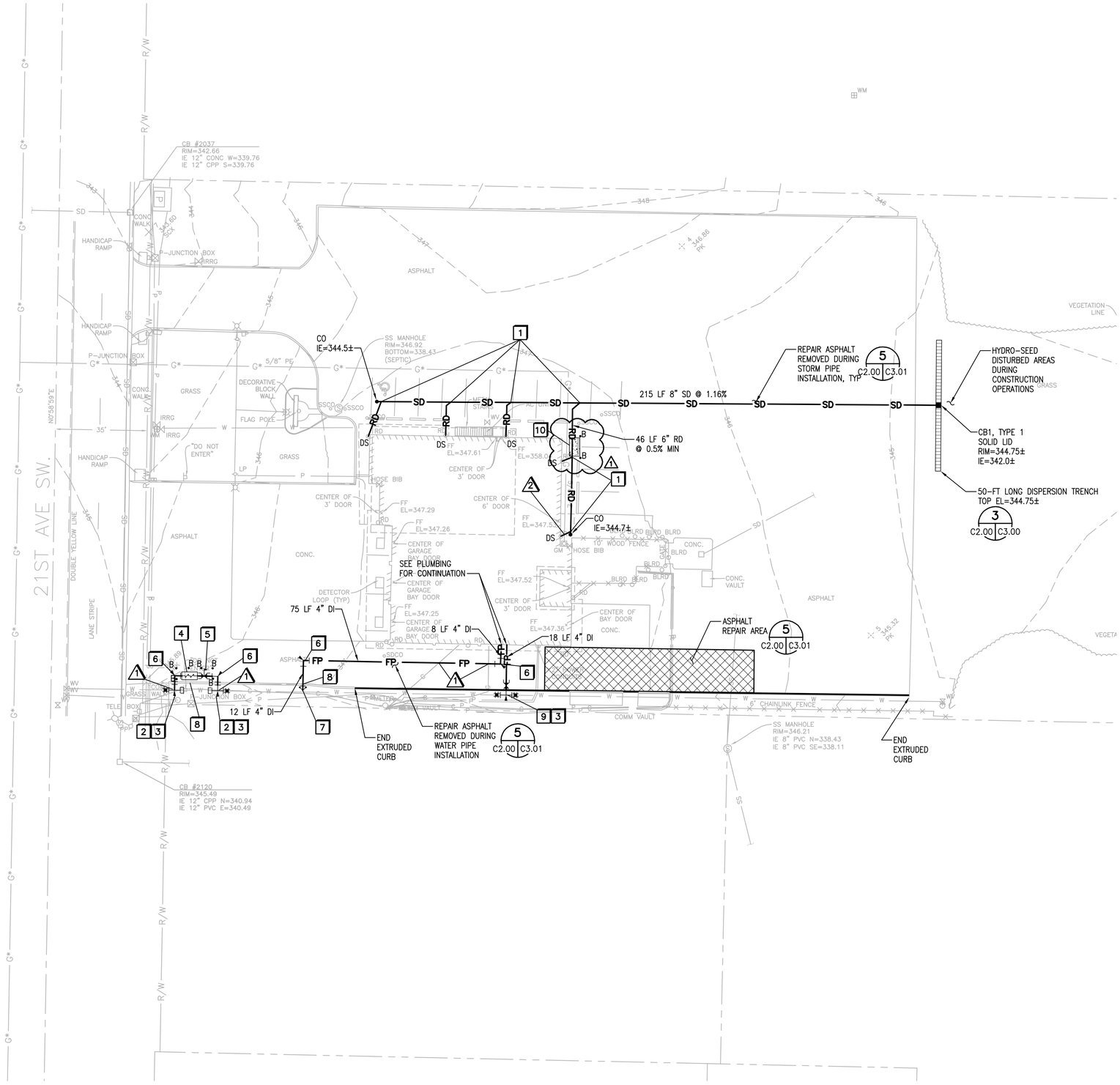
REVISION SCHEDULE

1	ADDENDUM #1	12/16/2016

ROOF PLANS

SHEET:

A21.12



LEGEND:

- CATCH BASIN, TYPE 1
- SD — STORM DRAIN PIPE
- RD — ROOF DRAIN PIPE, 6"ø @ 0.5% MIN
- FP — FIRE PROTECTION LINE
- TEE
- B — BOLLARD (1 / C2.00 | C3.01)
- POST INDICATOR VALVE
- CO — CLEANOUT (4 / C2.00 | C3.00)
- BEND (C2.00 | C3.00)
- DS — DOWNSPOUT (5 / C2.00 | C3.00)
- DISPERSION TRENCH
- LUD — LAKEHAVEN UTILITY DISTRICT
- ASPHALT PAVEMENT PATCH
- EXTRUDED CURB (6 / C2.00 | C3.01)

CONSTRUCTION NOTES:

1. CONNECT ROOF DRAIN PIPE TO STORM PIPE WITH WYE FITTING.
2. CONNECT TO EXISTING 6" PIPE, CUT-IN:
   (1) 6"x6"x4" TEE (FL)
   (1) CAP
   (1) TRANSITION COUPLING
   THRUST BLOCKING
3. COORDINATE WITH LUD. LUD WILL OBSERVE WATER LINE CONNECTION.
4. PROVIDE 4" DOUBLE DETECTOR CHECK VALVE ASSEMBLY. REFER TO LUD STANDARD PLAN B-19D. COORDINATE WITH LUD TO SET ASSEMBLY AND METER. OWNER SHALL PURCHASE BYPASS METER.
5. (1) POST INDICATOR VALVE (MJxMJ)
6. (1) 4" 90° BEND
   THRUST BLOCKING
7. FIRE DEPARTMENT CONNECTION
8. REPLACE EXTRUDED CURB REMOVED DURING WATER PIPE INSTALLATION
9. CONNECT TO EXISTING 6" PIPE, CUT-IN:
   (1) 6"x6"x4" TEE (FL)
   (1) 4" GATE VALVE (FLxMJ)
   (2) TRANSITION COUPLINGS
   THRUST BLOCKING
10. PROVIDE 7' X 3'-9" CONCRETE MECHANICAL EQUIPMENT PAD. SEE MECHANICAL FOR DETAILS.

UTILITY CONFLICT NOTES:

1. INSTALL WATER MAIN UNDER EXISTING COMMUNICATION PIPING WITH 6" VERTICAL MINIMUM.
2. INSTALL ROOF DRAIN PIPE UNDER EXISTING GAS SERVICE WITH 6" VERTICAL CLEARANCE MINIMUM.

NOTES:

1. RESTRAIN ALL PIPES, JOINTS, AND FITTINGS OF THE FIRE PROTECTION SYSTEM.
2. BEFORE COMMENCING CONSTRUCTION OF WATER SYSTEM, VERIFY LOCATION AND INVERT ELEVATION OF EXISTING PIPE SYSTEMS. IF CONFLICT EXISTS, CONTACT THE ARCHITECT IMMEDIATELY.
3. BEFORE COMMENCING CONSTRUCTION OF UTILITY SERVICES, VERIFY LOCATION OF SERVICES PENETRATING THE BUILDING WALL WITH MECHANICAL. IF CONFLICT EXISTS, NOTIFY THE ARCHITECT IMMEDIATELY.
4. RESTRIPE PAINT MARKINGS REMOVED DURING DEMOLITION AND CONSTRUCTION ACTIVITIES, AND IN STAGING AREAS.
5. SEE LUD STANDARD PLAN B-22A FOR THRUST BLOCKING.

N

SCALE IN FEET
20 0 20 40

RICE FERGUS MILLER
ARCHITECTURE & PLANNING
275 Fifth Street
Suite 100
Bremerton, WA 98337
(360) 377-8773
Fax 792-1385
info@rfmarch.com

Reid Middleton
728 134th Street SW Suite 200
Everett, Washington 98204
Ph: 425 741-5800
www.reidmiddleton.com
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MARK A. DAVIS
STATE OF WASHINGTON
21549
REGISTERED PROFESSIONAL ENGINEER

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FIRE STATION 63
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Project Number 2015137

BID DOCUMENTS

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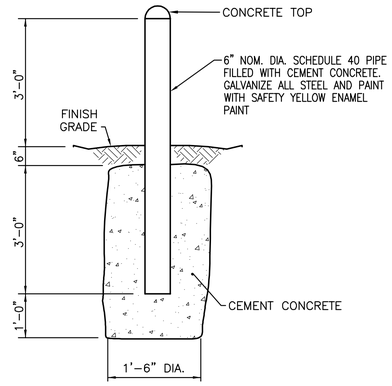
REVISION SCHEDULE	
ADDENDUM #1	12/16/16

Storm Drainage and Fire Protection Plan

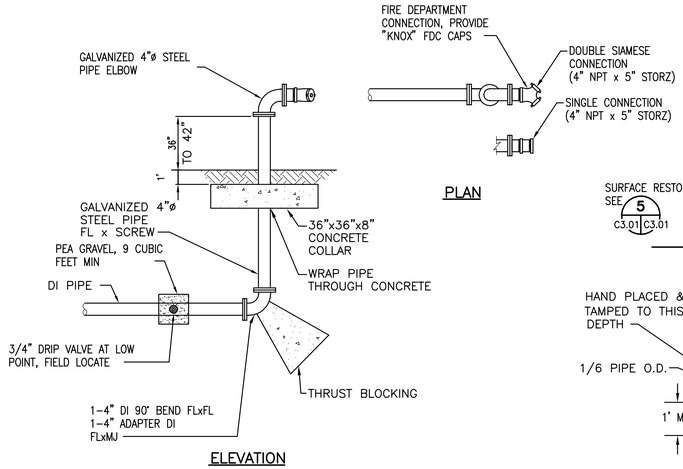
SHEET:

C2.00

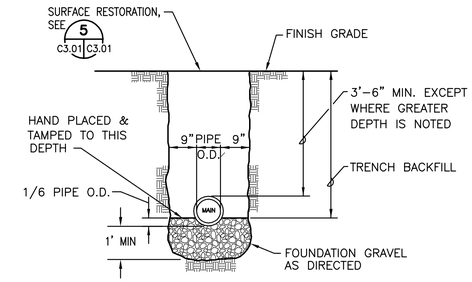
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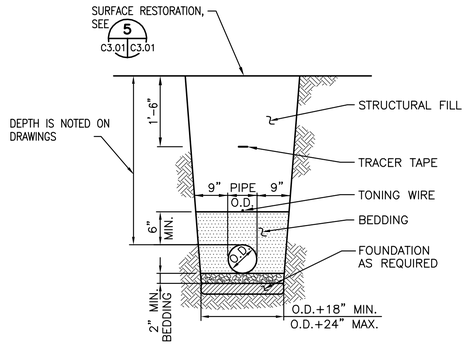
1 DETAIL – STEEL BOLLARD
C2.00 C3.01 NOT TO SCALE



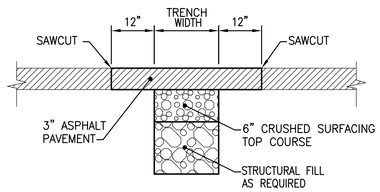
2 FIRE DEPARTMENT CONNECTION (FDC)
C2.00 C3.01 NOT TO SCALE



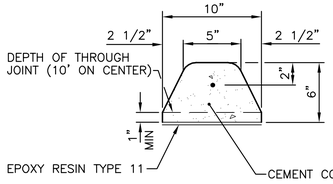
3 TYPICAL TRENCH
PRIVATE DUCTILE IRON WATER PIPE
C2.00 C3.01 NOT TO SCALE



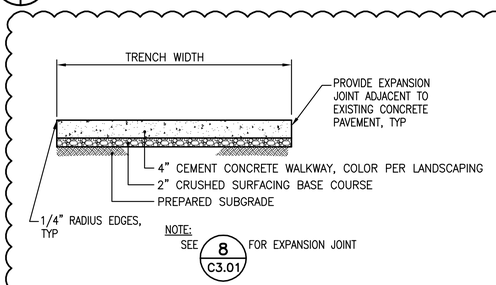
4 TYPICAL TRENCH
PLASTIC SEWER & STORM PIPE
C2.00 C3.01 NOT TO SCALE



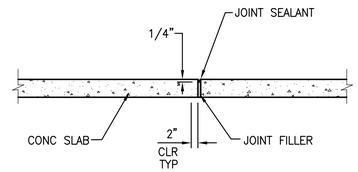
5 ASPHALT PATCH SECTION
C2.00 C3.01 NOT TO SCALE



6 SECTION–EXTRUDED CEMENT CONCRETE CURB
C2.00 C3.01 NOT TO SCALE



7 TYPICAL CEMENT
CONCRETE SECTION
E1.01 C3.01 NOT TO SCALE



8 TYPICAL EXPANSION JOINT
C3.01 C3.01 NOT TO SCALE

1

RICE ARCHITECTURE & PLANNING fergus MILLER
275 Fifth Street
Suite 100
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info@rfmarch.com

ReidMiddleton
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Ph: 425 741-3800
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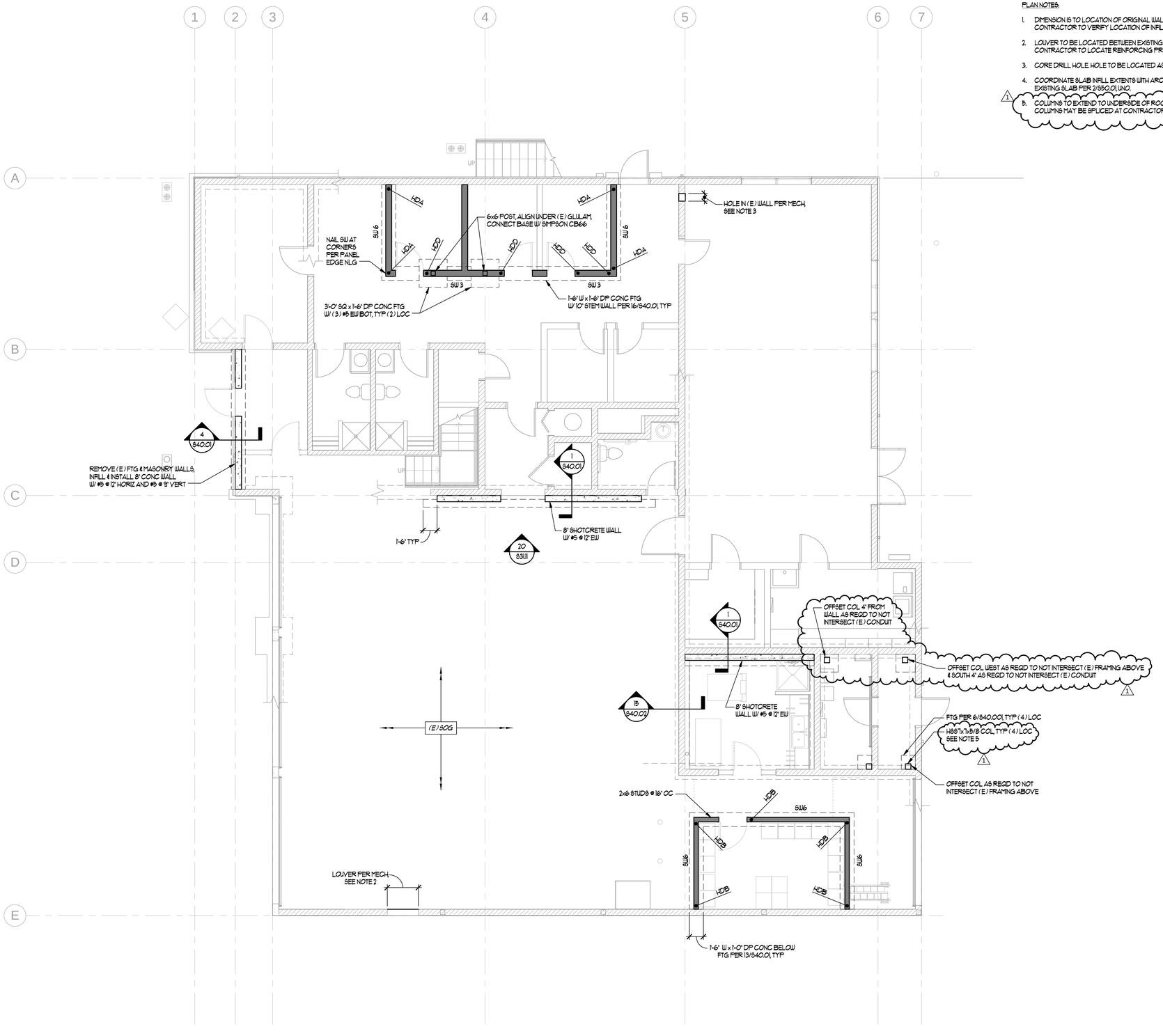
REVISION SCHEDULE	
ADDENDUM #1	12/16/16

Details

SHEET:

C3.01

12/16/2016 1:36pm I:\21\2016\006 South King F&R Station Design\Fire Station 63\Design\1606-63_C3.01DETL.dwg



FOUNDATION AND FIRST FLOOR PLAN

3/16" = 1'-0"

PLAN NOTES:

1. DIMENSION IS TO LOCATION OF ORIGINAL WALL OPENING PER ORIGINAL WALL OPENING PER ORIGINAL BUILDING DRAWINGS DATED 7-24-64. CONTRACTOR TO VERIFY LOCATION OF INFILL.
2. LOUVER TO BE LOCATED BETWEEN EXISTING REINFORCED VERTICAL CELLS (8'SPACED AT APPROXIMATELY 48' OC PER RECORD DRAWINGS). CONTRACTOR TO LOCATE REINFORCING PRIOR TO DEMO FOR LOUVER INSTALLATION. SEE 9/S40.01 FOR OPENING SUPPORT.
3. CORE DRILL HOLE. HOLE TO BE LOCATED AS TO NOT DAMAGE VERTICAL REINFORCING AND TO NOT BE LOCATED IN SOLID GROUTED CELLS.
4. COORDINATE SLAB INFILL EXTENTS WITH ARCHITECTURAL DRAWINGS. SLAB DEPTH TO MATCH EXISTING. PROVIDE #5 @ 12" EW, UNO. DOWEL TO EXISTING SLAB PER 2/S50.01, UNO.
5. COLUMNS TO EXTEND TO UNDERSIDE OF ROOF DECK. PER 18/S50.01 SIMILAR. SEE 2/S23.11 FOR ACCESS TO INSTALL COLUMNS THRU ROOF. COLUMNS MAY BE SPLICED AT CONTRACTORS OPTION PER 17/S40.02.

LEGEND

(SEE S00.01 FOR ABBREVIATIONS)

- EXISTING MASONRY WALL THIS LEVEL
- EXISTING CONCRETE COLUMN
- SHOTCRETE WALLS
- WOOD WALLS

SHEET NOTE:

ALL DIMENSIONS, ELEVATION, AND LOCATIONS OF EXISTING STRUCTURAL COMPONENTS ARE BASED ON INFORMATION GATHERED FROM ORIGINAL DRAWINGS OR CURSORY FIELD MEASUREMENTS AND ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL FILED MEASURE AND VERIFY ALL CONDITIONS PRIOR TO COMMENCING ANY WORK. NOTIFY ENGINEER WHERE CONDITIONS VARY FROM THOSE SHOWN.

RICE ARCHITECTURE & PLANNING fergus MILLER
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
FAX 792-1385
INFO@RFMARCH.COM

Reid Middleton
728 134th Street SW - Suite 200
Everett, Washington 98204
Ph: 425 741-3800
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STATE OF WASHINGTON · CHARLES MICHAEL SEMMENS · 43107 · REGISTERED PROFESSIONAL ENGINEER
12/16/16

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 63
33414 S 21st AVE SOUTH
FEDERAL WAY, WA

PROJECT # 262016.018

BID SET

ISSUED: DECEMBER 16, 2016

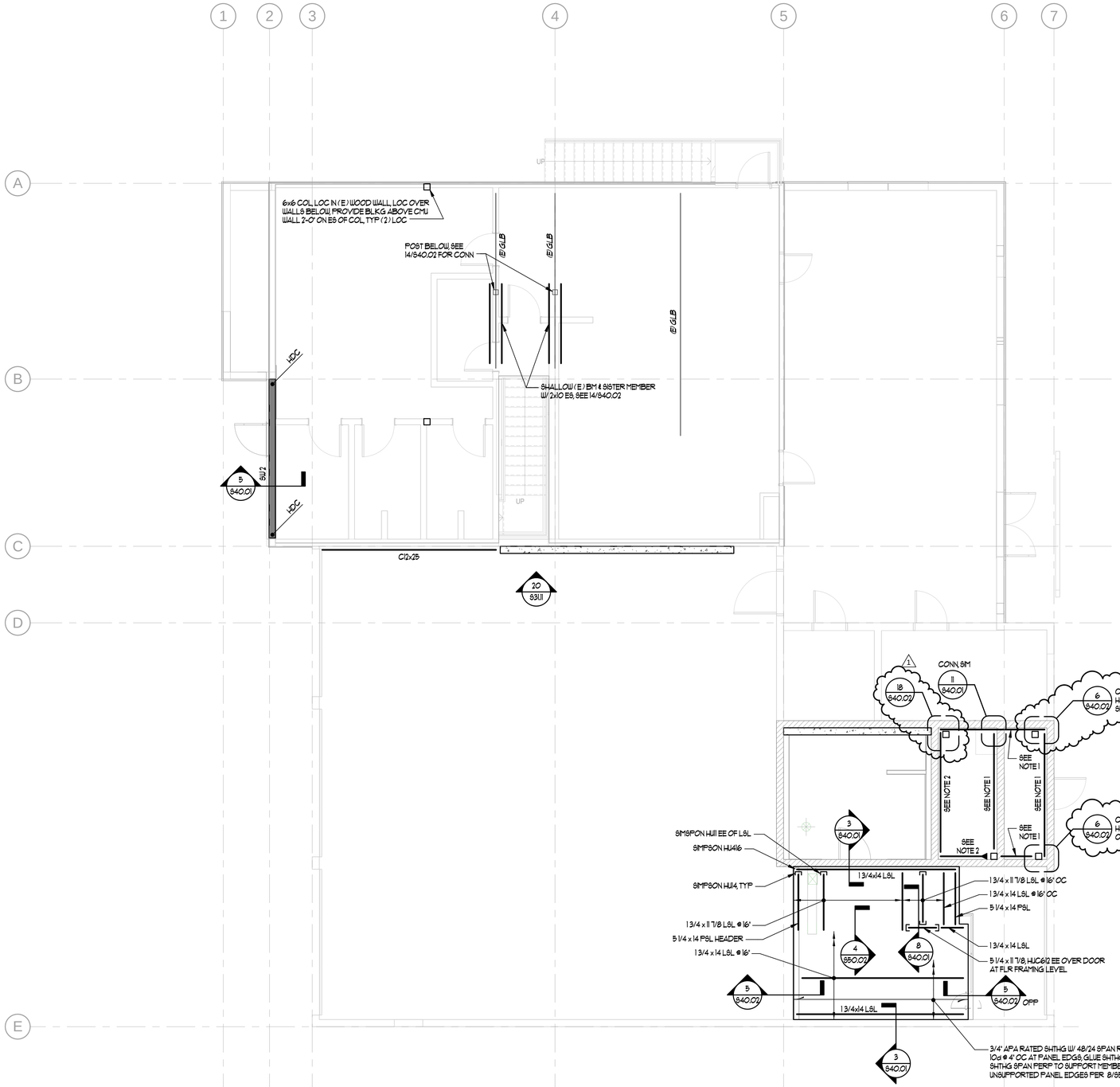
REVISION SCHEDULE

1	ADDENDUM 1	12/16/2016

FOUNDATION AND FIRST FLOOR PLAN

SHEET:

S21.11



MEZZANINE FRAMING PLAN

3/16" = 1'-0"

1 PLAN NOTES:

1. C10x15.3 BEAM @ 10'-0" MAX SPACE EQUALLY FULL HEIGHT OF HOSE TOWER WALLS. LOCATE ONE AT TOP OF MASONRY WALLS. CENTER MASONRY WALL STOPS APPROXIMATELY 7 FEET BELOW ROOF DECK. EXTERIOR MASONRY WALLS STOP APPROXIMATELY 4 FEET BELOW ROOF DECK.
2. HSS6x4x3/8 @ 10'-0" SPACE, SPACING TO MATCH C10.

LEGEND

(SEE S00.01 FOR ABBREVIATIONS)

- EXISTING MASONRY WALL THIS LEVEL
- EXISTING CONCRETE COLUMN
- SHOTCRETE WALLS
- WOOD WALLS

SHEET NOTE:

ALL DIMENSIONS, ELEVATION AND LOCATIONS OF EXISTING STRUCTURAL COMPONENTS ARE BASED ON INFORMATION GATHERED FROM ORIGINAL DRAWINGS OR CURSORY FIELD MEASUREMENTS AND ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL FILED MEASURE AND VERIFY ALL CONDITIONS PRIOR TO COMMENCING ANY WORK. NOTIFY ENGINEER WHERE CONDITIONS VARY FROM THOSE SHOWN.

RICE ARCHITECTURE & PLANNING fergus MILLER
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
FAX 792-1385
INFO@RFMARCH.COM

Reid Middleton
728 134th Street SW - Suite 200
Everett, Washington 98204
Ph: 425 741-3800
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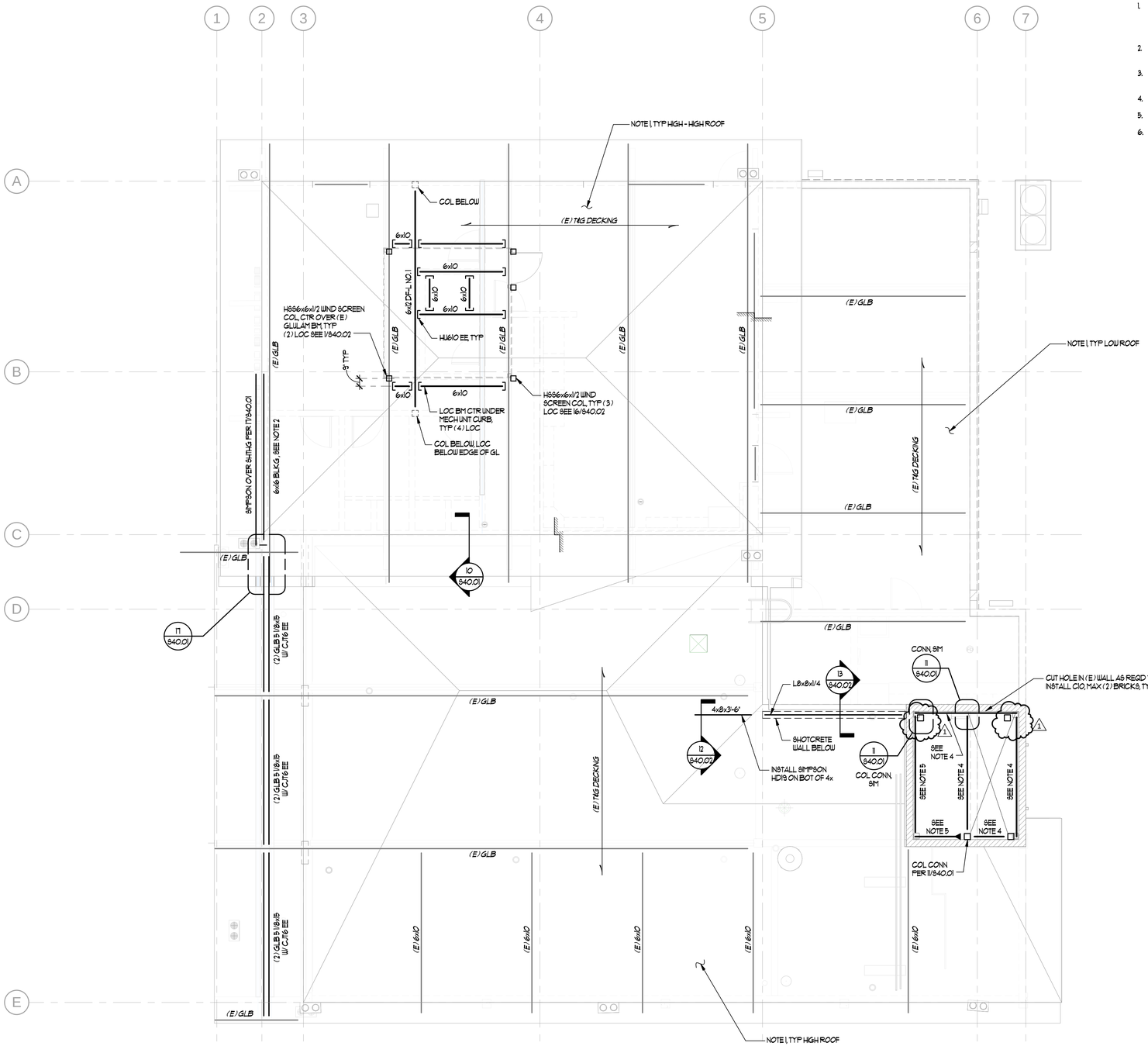
REVISION SCHEDULE

1	ADDENDUM 1	12/16/2016

MEZZANINE FRAMING PLAN

SHEET:

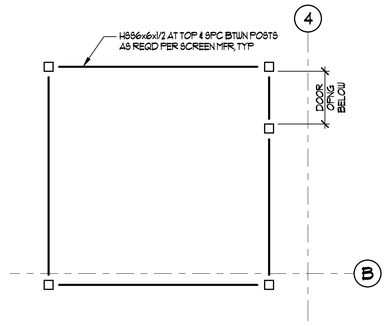
S22.11



ROOF FRAMING PLAN
3/16" = 1'-0"

PLAN NOTES:

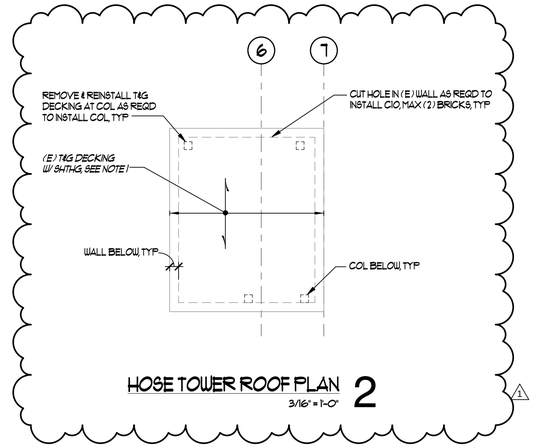
1. INSTALL 19/32" PLYWOOD SHEATHING (PANEL SPAN RATING 32/16) OVER EXISTING TONGUE AND GROOVE DECKING. NAIL PLYWOOD SHEATHING AT ALL PANEL EDGES WITH 10d @ 2 1/2" OC. NAIL PANEL FIELD WITH 10d @ 4" OC EACH WAY. CONTRACTOR SHALL VERIFY THICKNESS OF EXISTING TONGUE AND GROOVE DECKING AND VERIFY THAT NAILS DO NOT PENETRATE THROUGH UNDERSIDE OF DECKING AND BECOME EXPOSED.
2. BLOCKING SHALL BE IN WALL AS TO BE IN LINE WITH GLULAM BEAMS AT HIGH ROOF PER 19/S40.01. EXISTING STUDS TO REMAIN. INSTALL POSTS FOR HOLDOWNS AS REQUIRED.
3. NEW 6x BEAMS TO BE INSTALLED FLUSH WITH UNDERSIDE OF DECK. INSTALLATION SEQUENCING PER CONTRACTOR. NOTE THAT 6x12 MAY NEED TO BE INSTALLED LAST.
4. C10x15.3 BEAM, PER S22.11.
5. HSS5x5x3/8, SPACE TO MATCH C10.
6. PROVIDE A35 @ 11-6" OC EACH SIDE OF ALL 6x10 AND 6x12 MEMBERS, TYPICAL



NOTE:

1. SEE 2/S40.02 FOR TYPICAL BEAM TO COLUMN CONNECTION.

WIND SCREEN PARTIAL PLAN 1
1/4" = 1'-0"



HOSE TOWER ROOF PLAN 2
3/16" = 1'-0"

LEGEND
(SEE S00.01 FOR ABBREVIATIONS)

- SPAN DIRECTION OF MTL DECK / FRAMING MEMBERS
- EXISTING MASONRY WALL THIS LEVEL
- SLAB STEP
- SHEAR WALL OR SHOTCRETE WALL BELOW THIS LEVEL
- EXISTING WALL BELOW

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Everett, Washington 98204
Ph: 425 741-3800
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CHARLES MICHAEL SWIFT — STATE OF WASHINGTON — 43107 — PROFESSIONAL ENGINEER
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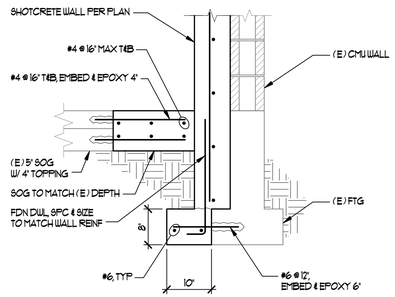
REVISION SCHEDULE

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ROOF FRAMING PLAN

SHEET:

S23.11

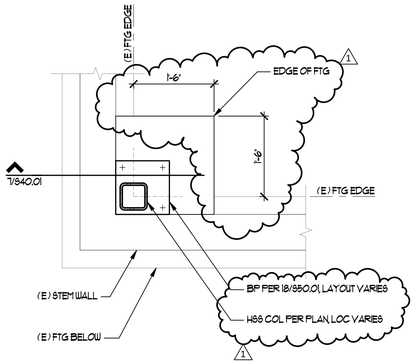


NOTE:

1. SHOTCRETE WALL DOWELS TO EXISTING CMU WALL AND FOUNDATION WALL NOT SHOWN.

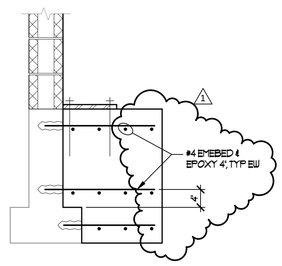
SHOTCRETE WALL FOUNDATION 1

3/4" = 1'-0"



COLUMN FOUNDATION - PLAN 6

3/4" = 1'-0"

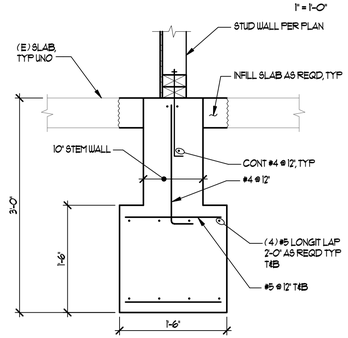


COLUMN FOUNDATION - SECTION 7

3/4" = 1'-0"

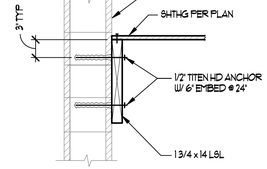
C10 TO HSS COLUMN AT HOSE TOWER CENTER 11

1" = 1'-0"



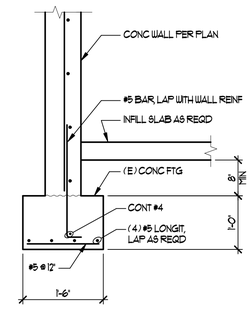
12x36 CONCRETE FOOTING 16

1" = 1'-0"



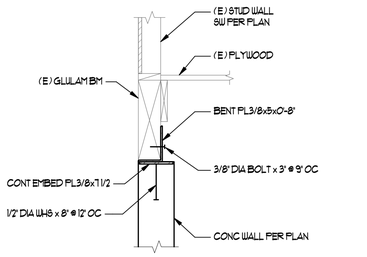
LEDGER CONNECTION TO CMU WALL 3

1" = 1'-0"



CONCRETE WALL SECTION 4

3/4" = 1'-0"

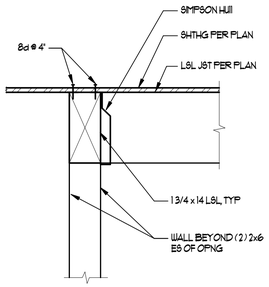


NOTE:

1. CONTRACTOR TO VERIFY EXISTING GLULAM BEAM IS PRESENT FULL LENGTH OF WALL.

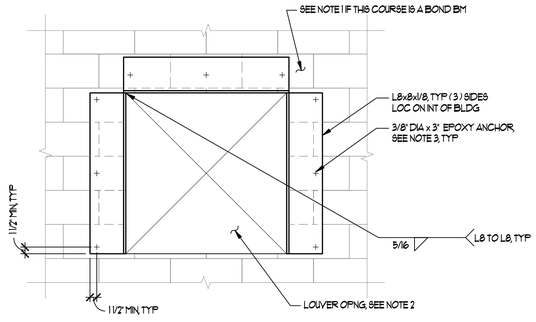
CONCRETE WALL TO WOOD BEAM 5

3/4" = 1'-0"



HEADER DETAIL 8

1" = 1'-0"

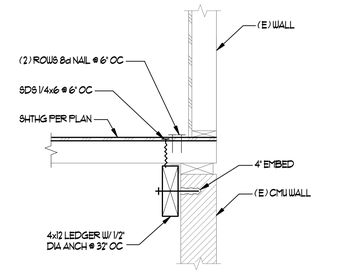


NOTES:

1. STEEL FRAME NOT REQUIRED IF COURSE ABOVE OPENING IS A BOND BEAM.
2. LOUVER OPENING TO BE LOCATED BETWEEN VERTICALLY GROUTED CELLS.
3. WHERE CELL IS NOT GROUTED INSTALL SCREEN PER GENERAL NOTES. INSTALL (1) ANCHOR PER CMU BLOCK IN CENTER OF BLOCK HEIGHT.

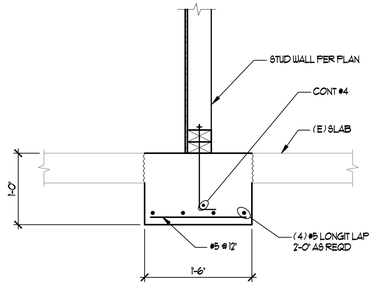
LOUVER OPENING SUPPORT 9

3/4" = 1'-0"



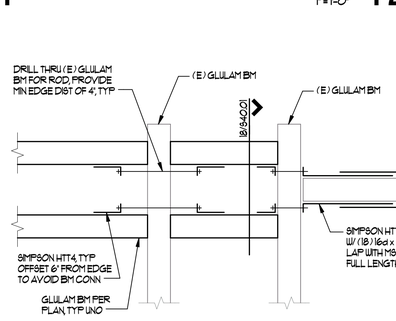
NORTH APP BAY WALL 10

3/4" = 1'-0"



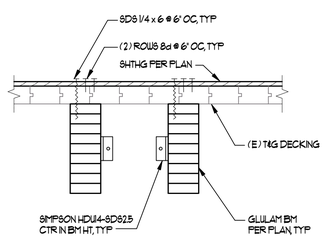
12x18 CONCRETE FOOTING 13

1" = 1'-0"



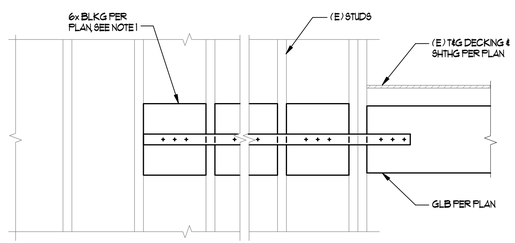
GLULAM DRAG ELEMENT 17

3/4" = 1'-0"



SECTION - GLULAM DRAG ELEMENT 18

1" = 1'-0"

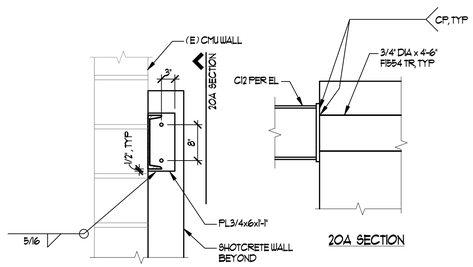


NOTE:

1. BLOCKING SHALL BE TIGHT BETWEEN EXISTING STUDS.

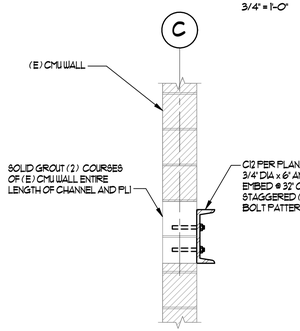
DRAG STRUT BLOCKING 19

3/4" = 1'-0"



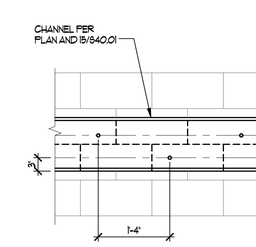
GRID C CHANNEL TO SHOTCRETE WALL 20

3/4" = 1'-0"



CHANNEL AT GRID C 15

3/4" = 1'-0"



CHANNEL BOLT LOCATIONS 14

3/4" = 1'-0"

RICE ARCHITECTURE & PLANNING fergus MILLER
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
FAX 792-1385
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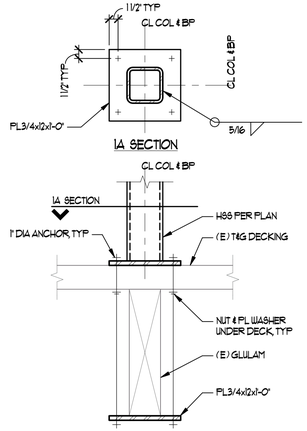
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SECTIONS AND DETAILS

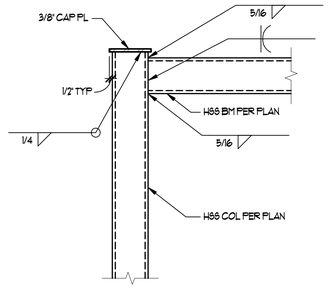
SHEET:

S40.01



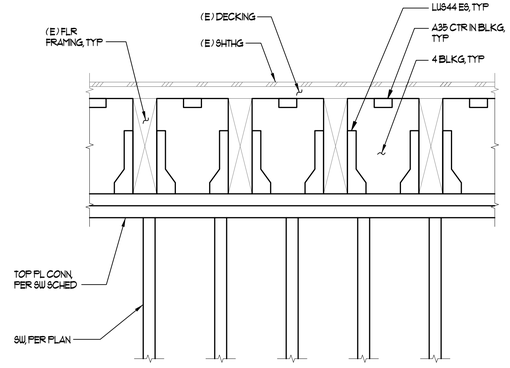
SCREEN COLUMN BASE ANCHORAGE 1

1" = 1'-0"



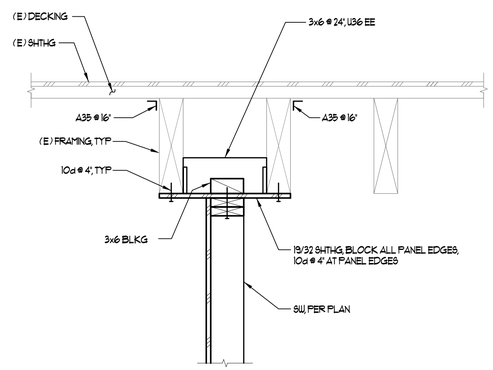
SCREEN ANGLE CONNECTION 2

1" = 1'-0"



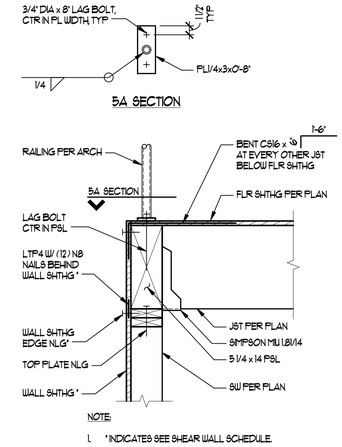
TYPICAL SHEAR WALL TO 2ND FLOOR CONNECTION PERPENDICULAR TO EXISTING FRAMING 3

NTS



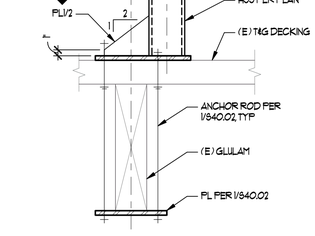
TYPICAL SHEAR WALL TO 2ND FLOOR CONNECTION PARALLEL TO EXISTING FRAMING 4

NTS



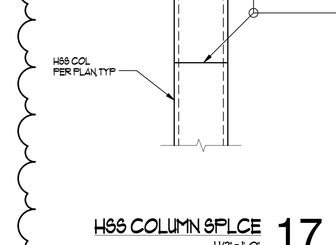
MEZZANINE SHEAR WALL AND RAILING 5

1" = 1'-0"



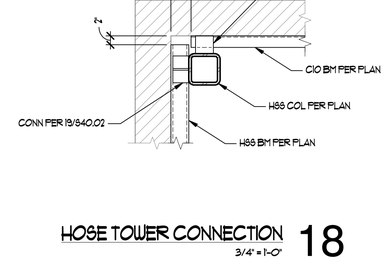
C10 TO HSS AT HOSE TOWER CORNER 6

1" = 1'-0"



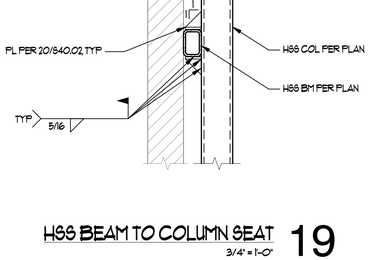
SECTION OFFSET C10 TO HSS COLUMN 7

1" = 1'-0"



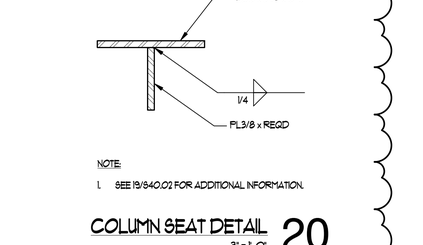
TYPICAL HSS BEAM TO COL CONNECTION 8

1" = 1'-0"



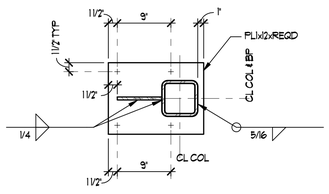
HOSE TOWER HSS BEAMS CORNER 9

1" = 1'-0"

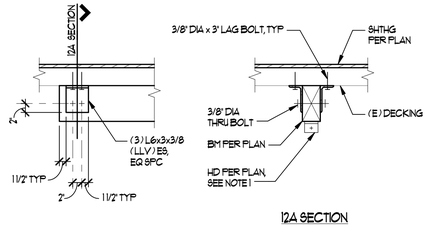


HSS TO CMU WALL 10

1" = 1'-0"

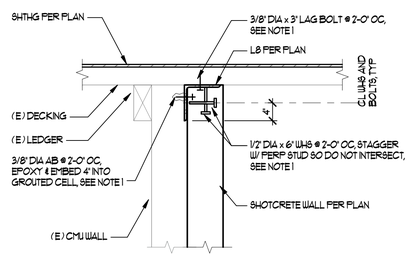


16A SECTION



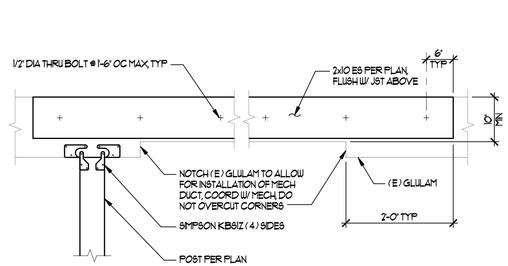
DRAG BEAM DETAIL 12

3/4" = 1'-0"



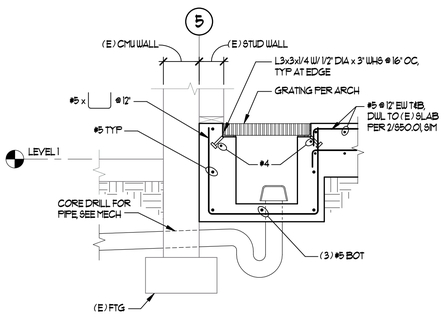
SHOTCRETE TOP ANGLE 13

3/4" = 1'-0"



SISTERED GLULAM BEAM 14

3/4" = 1'-0"



SECTION AT DRAIN 15

3/4" = 1'-0"

OFFSET SCREEN COLUMN BASE ANCHORAGE 16

1" = 1'-0"

HSS COLUMN SPLCE 17

1 1/2" = 1'-0"

HOSE TOWER CONNECTION 18

3/4" = 1'-0"

HSS BEAM TO COLUMN SEAT 19

3/4" = 1'-0"

COLUMN SEAT DETAIL 20

3" = 1'-0"

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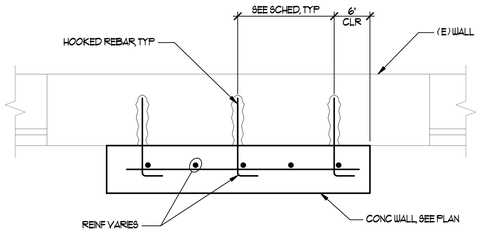
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SECTIONS AND DETAILS

SHEET:

S40.02



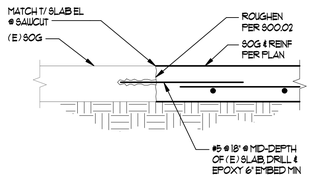
PLAN

SCHEDULE				
(E) WALL	DETAIL	MAX SPACING	MIN EMBED	BAR SIZE
FILLED CMU	6/S50.01	1'-6" EW	4"	3/4" DIA TR
HOLLOW CMU	6/S50.01 8M	1'-6" EW	PER 6/S50.01	3/4" DIA TR

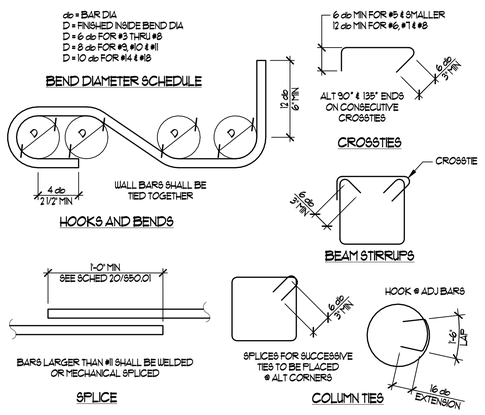
NOTE:

1. THIS OCCURS AT ALL CONCRETE, MASONRY, AND URM WALLS.

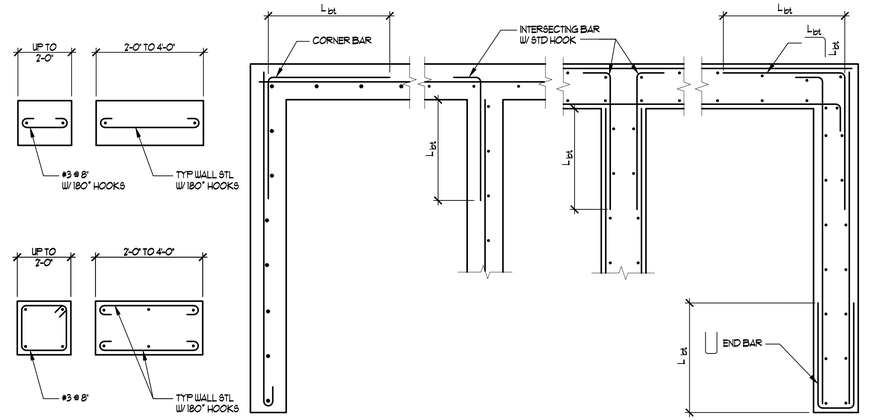
CONCRETE WALL DETAIL AND SCHEDULE 1
NTS



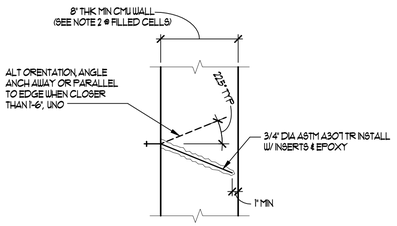
SOG TO EXISTING CONNECTION 2
NTS



TYPICAL REINFORCING BAR BEND AND LAP DETAILS 3
NTS



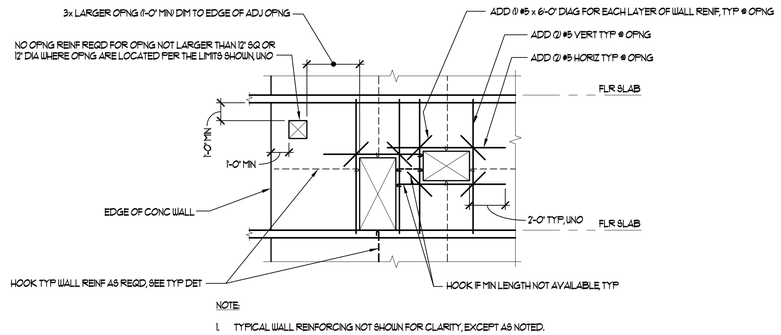
TYPICAL CONCRETE WALL PLAN DETAILS 5
NTS



NOTES:

1. INSTALL ANCHOR WITH REBAR WHERE REQUIRED. SEE DETAILS FOR REBAR SIZE.
2. 22.5° HOLE ANGLE NOT REQUIRED FOR REBAR INSTALLED IN EXISTING FILLED CELLS. 1" DISTANCE TO EXISTING SIDE IS NOT APPLICABLE AT EXISTING CONCRETE WALLS. 4" MINIMUM EMBED PER 1/S50.01 REQUIRED.
3. DRILLING METHODS SHALL BE SELECTED TO AVOID DAMAGE TO THE WALL.

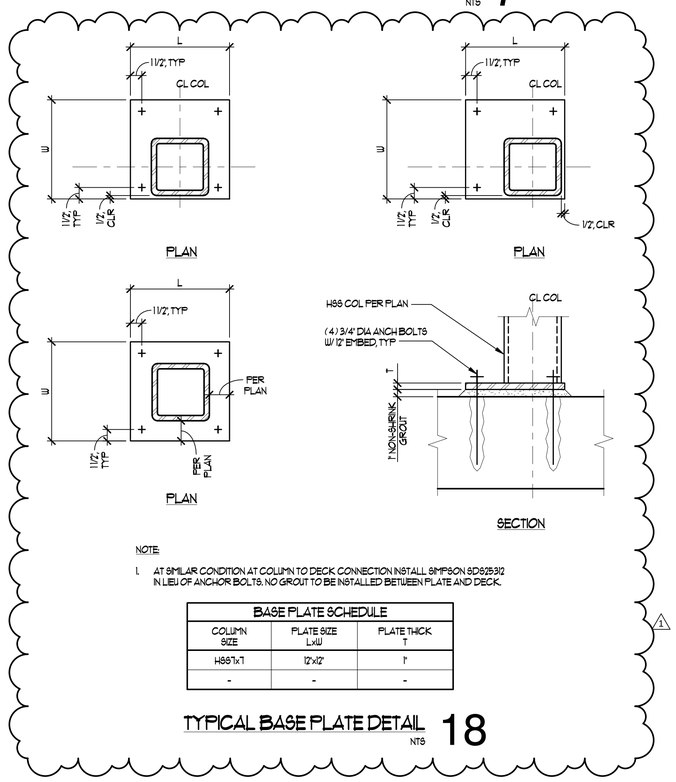
ANCHOR IN EXISTING WALLS 6
NTS



NOTE:

1. TYPICAL WALL REINFORCING NOT SHOWN FOR CLARITY, EXCEPT AS NOTED.

CONCRETE WALL ELEVATION DETAIL 7
NTS

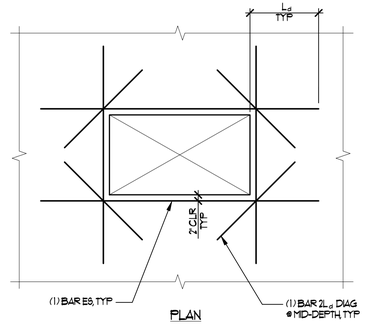


NOTE:

1. AT SIMILAR CONDITION AT COLUMN TO DECK CONNECTION INSTALL SIMPSON SDS25312 IN LIEU OF ANCHOR BOLTS. NO GROUT TO BE INSTALLED BETWEEN PLATE AND DECK.

BASE PLATE SCHEDULE		
COLUMN SIZE	PLATE SIZE LxW	PLATE THICK T
HSS6"x"T	12"x12"	1"
-	-	-

TYPICAL BASE PLATE DETAIL 18
NTS

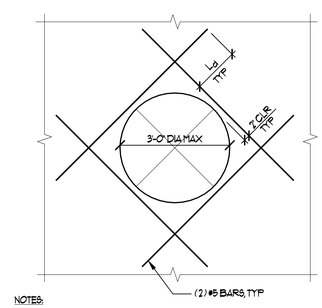


PLAN

NOTES:

1. BAR SIZE TO MATCH SLAB REINFORCING.
2. IF TWO LAYERS OF STEEL IN SLAB, PROVIDE OPENING REINFORCEMENT FOR EACH LAYER.

TYPICAL REINFORCING AT WALL OPENING 14
NTS



NOTES:

1. HORIZONTAL AND VERTICAL WALL REINFORCING NOT SHOWN FOR CLARITY.
2. TERMINATE INTERRUPTED HORIZONTAL AND VERTICAL REINFORCEMENT WITH A STANDARD HOOK.
3. REFER TO CIVIL AND MECHANICAL DRAWINGS FOR LOCATIONS OF PIPE PENETRATIONS.

REINFORCING AT PIPE PENETRATION IN WALL 19
NTS

Fc = 4,000 PSI								
SIZE	L_s (2,3,4) & L_d (2,3,4)	L_b (2,3,4)	L_{dh}	L_c	L_{cl}	L_{ds} (4,5,6)	L_{bs} (4,5,6)	L_{dhs}
3	15	19	8	8	12	15	20	6
4	18	25	10	10	15	18	24	8
5	24	31	12	12	19	23	30	10
6	29	37	15	15	23	28	36	11
7	42	54	17	17	27	32	42	13
8	48	62	19	19	30	37	48	15
9	54	70	22	22	34	42	54	17
10	61	79	25	25	39	47	61	19
11	67	87	27	27	43	52	67	21

Fc = 6,000 PSI								
SIZE	L_s (2,3,4) & L_d (2,3,4)	L_b (2,3,4)	L_{dh}	L_c	L_{cl}	L_{ds} (4,5,6)	L_{bs} (4,5,6)	L_{dhs}
3	12	16	6	8	12	15	20	6
4	16	21	8	9	15	15	20	6
5	20	26	10	12	19	19	25	8
6	24	31	12	14	23	23	29	9
7	34	45	14	16	27	27	34	11
8	39	51	16	18	30	30	39	12
9	44	57	18	21	34	34	44	14
10	50	64	20	23	39	38	50	16
11	55	71	22	26	43	42	55	17

NOTES:

1. USE THE LENGTHS IN THIS SCHEDULE UNLESS NOTED OTHERWISE.
2. FOR BARS WITH LOW COVER OR SPACING, INCREASE LENGTH BY 50%. IF BARS ARE ENCLOSED IN STIRRUPS OR TIES, INCREASE APPLIES WHEN BAR COVER OR CLEAR BAR SPACING IS LESS THAN d_b. IF BARS ARE NOT ENCLOSED IN STIRRUPS OR TIES, INCREASE APPLIES WHEN BAR COVER IS LESS THAN d_b OR CLEAR BAR SPACING IS LESS THAN $2d_b$.
3. FOR TOP BARS INCREASE LENGTH BY 30%. A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW IT.
4. FOR EPOXY COATED REINFORCING, INCREASE STRAIGHT BAR LENGTHS BY 50% AND HOOKED BAR LENGTHS BY 20%.
5. FOR PORTIONS NOT WITHIN A CONFINED COLUMN OR BOUNDARY ZONE CORE INCREASE LENGTH BY 60%.
6. FOR SEISMIC TOP BARS INCREASE LENGTH BY 40%. SEISMIC TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW.

ABBREVIATIONS:

d_b	BAR DIAMETER
L_d	TENSION DEVELOPMENT LENGTH
L_{dt}	TENSION DEVELOPMENT LENGTH FOR A TOP BAR (SEE NOTE 3)
L_s	CLASS A LAP SPLICE LENGTH
L_{st}	CLASS A LAP SPLICE LENGTH FOR A TOP BAR (SEE NOTE 3)
L_b	CLASS B LAP SPLICE LENGTH
L_{bt}	CLASS B LAP SPLICE LENGTH FOR A TOP BAR (SEE NOTE 3)
L_{dh}	TENSION DEVELOPMENT LENGTH FOR A STANDARD HOOK
L_c	COMPRESSION DEVELOPMENT LENGTH
L_{cl}	COMPRESSION LAP SPLICE LENGTH
L_{ds}	SEISMIC TENSION DEVELOPMENT LENGTH
L_{dts}	SEISMIC TENSION DEVELOPMENT LENGTH FOR A TOP BAR (SEE NOTE 6)
L_{bs}	SEISMIC LAP SPLICE LENGTH
L_{bts}	SEISMIC LAP SPLICE LENGTH FOR A TOP BAR (SEE NOTE 6)
L_{dhs}	SEISMIC DEVELOPMENT LENGTH FOR A STANDARD HOOK

REINF BAR DEVELOPMENT & SPLICE LENGTH TABLES 20
NTS

RICE FERGUS MILLER
ARCHITECTURE & PLANNING
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
FAX 792-1385
INFO@RFMARCH.COM

Reid Middleton
728 134th Street SW - Suite 200
Everett, Washington 98204
Ph: 425 741-3800
www.reidmiddleton.com
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STATE OF WASHINGTON · CHARLES MICHAEL ARMSTRONG · 43107 · REGISTERED PROFESSIONAL ENGINEER
12/16/16

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 63
33414 S 21st AVE SOUTH
FEDERAL WAY, WA

PROJECT # 262016.018

BID SET

ISSUED: DECEMBER 16, 2016

REVISION SCHEDULE

1	ADDENDUM 1	12/16/2016

TYPICAL DETAILS

SHEET:

S50.01

DIFFUSER AND GRILLE SCHEDULE

ITEM	MAKE	MODEL	DESCRIPTION	SIZE	MARK
SUPPLY REGISTER	THERMAL CORE	HCRH	HIGH INDUCTION PERFORATED FACE, 1 HOLE PER SQUARE INCH. EXTRUDED ALUMINUM MOUNTING FRAME.	10" X 8"	R-1
SUPPLY DIFFUSER	TITUS	MCD	24" x 24" SQUARE FACE SQ. NECK PER PLANS 4 ADJ. CORES STEEL WHITE ENAMEL	6"X6"	D-1
				8"X8"	D-2
				10"X10"	D-3
SUPPLY DIFFUSER	TROX SWIRL	TDF-SA -Q-Z-H	24" SQUARE FACE, INLET SIZE PER PLANS. SIDE INLET PLENUM. FIXED HORIZONTAL DISCHARGE. STEEL, WHITE	24X12X24	D-11
				24X20X24	D-12
SUPPLY DIFFUSER	TITUS	TJD	24" x 24" SQUARE FACE INDUCTION NOZZLES STEEL, WHITE ENAMEL	8"	D-21
SUPPLY DIFFUSER	TROX SWIRL	VDW -Q-Z-H	24" SQUARE FACE, INLET SIZE PER PLANS. SIDE INLET PLENUM. ADJUSTABLE DISCHARGE PATTERN. STEEL, WHITE BLACK PATTERN CONTROLLERS	24X16X16	D-31
RETURN GRILLE	TITUS	50F	1/2" EGG CRATE, ALUM., WHITE ENAMEL	12" X 24"	G-1
EXHAUST GRILLE	TITUS	355RL	1/2" BLADE SPACING, 35 DEG DEFLECTION, BLADES PARALLEL TO LONG DIMENSION, STEEL, WHITE	10" X 10"	G-11
				16" X 16"	G-12

NOTES:
1. CEILING UNIT FRAME SHALL BE COMPATIBLE WITH CEILINGS; FLAT FRAME SURFACE MOUNT (TITUS BORDER TYPE 1) FOR DRYWALL CEILINGS AND WITH LAY-IN PANEL FOR EXPOSED GRID CEILINGS (TITUS BORDER TYPE 3). SEE ARCHITECTURAL PLANS FOR CEILING TYPES.
2. BEVELED DROP FACE DIFFUSERS (TITUS BORDER TYPE 6) ARE NOT ACCEPTABLE.
3. SIZE INDICATES DUCT COLLAR.

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	MAKE	MODEL	TYPE	SUPPLY CFM	SUPPLY ESP	SUPPLY BHP	SUPPLY HP	EXHAUST CFM	EXHAUST ESP	EXHAUST BHP	EXHAUST HP	HEAT EXCHANGER MATERIAL	HEAT EXCHANGER WINTER EFF.	HEAT INPUT	HEAT OUTPUT	HEAT EFF	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLT/PH	ELECTRICAL SCCR	WGT. LBS	NOTES
ERV	GREENHECK	ERCH-20-15L	OUTDOOR	1,200	0.75	0.6	3/4	1,100	0.75	0.64	3/4	WHEEL	74.8%	8.3 KW	SCR	---	38.3	40	208/3	NOTE B	1450	ALL

NOTES:
1. SCR ELECTRIC HEAT CONTROL WITH SINGLE POINT POWER
2. MERV 8 AND MERV 13 SUPPLY FILTERS; MERV 8 EXHAUST FILTERS
3. MOTORIZED INSULATED LOW LEAK SUPPLY AND EXHAUST DAMPERS
4. SPRING ISOLATION CURB
5. INTERNAL NEOPRENE ISOLATION

1
A. MICROPROCESSOR UNIT CONTROL WITH REMOTE INTERFACE
B. PROVIDE RATING PER SPECIFICATIONS AND ELECTRICAL.
C. CONSTANT VOLUME FAN CONTROL WITH DISCHARGE AIR TEMPERATURE HEATING CONTROL

FAN SCHEDULE

MARK	SERVES	MAKE	MODEL	TYPE	CFM	LOW SPEED	ESP INCH WC	RPM	BHP	MOTOR HP (W)	ELEC VOLT/PH	WGT. LBS	MAX SOUND	NOTES:
EF-1	DECON, BUNKER GEAR	GREENHECK	G-095-VG	ROOF CENT	500	150	0.5	1307	0.07	1/6	115 / 1	50	52 DBA	A, 1, 2, 3, 4
EF-2	APP BAY	GREENHECK	G-163-VG	ROOF CENT	2,000	N/A	0.375	943	0.15	1	115 / 1	150	61 DBA	B, C, 1, 2, 3, 5

NOTES:
1. SPEED CONTROL
2. FACTORY INSULATED CURB, MATCH ROOF SLOPE
3. ALUMINUM BIRDSCREEN, CURB SEAL, AND HINGE KIT
4. GRAVITY BACKDRAFT DAMPER
5. MOTORIZED INSULATED CONTROL DAMPER

1
A. RUNS CONTINUOUSLY
B. 2 HOUR WALL TIMER
C. INTERLOCK WITH CO/NO2 SENSORS

RADIANT CEILING PANEL SCHEDULE

MARK	MFR.	MODEL	SIZE	ELECTRICAL WATTS	ELECTRICAL VOLT/PH	WEIGHT	NOTES:
RCP	MARKEL	RCP-807	24"X48"	750	208/1	20	ALL

NOTES:
1. PROVIDE LINE VOLTAGE WALL THERMOSTAT.
2. PROVIDE MOUNTING FRAME FOR GWB CEILINGS.
3. SEE PLANS FOR UNIT QUANTITY.

ELECTRIC INFRARED HEATER SCHEDULE

MARK	MAKE	MODEL	LENGTH	ELECTRICAL WATTS	ELECTRICAL VOLT/PH	WEIGHT	NOTES:
EIH	BLACK BODY THERMAZONE	21-2000U	24"	2000	208/1	20	ALL

NOTES:
1. PROVIDE LINE VOLTAGE WALL THERMOSTAT.
2. PROVIDE SEISMIC RESTRAINT PER MANUFACTURERS RECOMMENDATIONS.
3. SEE PLANS FOR UNIT QUANTITY.

LOUVER SCHEDULE

MARK	MAKE	MODEL	WIDTH	HEIGHT	FREE AREA	MATERIAL	FINISH	NOTES:
L-1	GREENHECK	ESD-403	32"	32"	3.24	ALUMINUM	KYNAR	1, 2, 3

NOTES:
1. COLOR TO BE SELECTED BY ARCHITECT.
2. PROVIDE ALUMINUM BIRDSCREEN.
3. PROVIDE INSTALLATION HARDWARE AS REQUIRED.

BRANCH CIRCUIT CONTROLLER SCHEDULE

MARK	MAKE	MODEL	NUMBER OF BRANCHES	POWER SOURCE	MCA	WEIGHT	NOTES:
BC-1	MITSUBISHI	CMB-P1013NU-GA	13	208/1	1.08	160	1

NOTES:
1. CONDENSATE DRAINAGE SHALL BE PIPED TO NEAREST INDIRECT WASTE.
2. PROVIDE WITH BLUEDIAMOND CONDENSATE PUMP.

SPLIT SYSTEM HEAT PUMP & A/C SCHEDULE

1

INDOOR UNIT MARK	MAKE	MODEL	SERVES	SUPPLY TOTAL CFM	SUPPLY ESP W.C.	COOLING TOTAL MBH	COOLING SENS MBH	COOLING EAT DB / WB	COOLING OAT DB	COOLING ECONO (Y/N)	COOLING ECONO EXCEPT	HEATING HEATING MBH OUTPUT @ 20F OAT	ELECTRICAL VOLT/PH	ELECTRICAL MCA	SOUND LEVEL dBA	OP. WT. LBS.	OUTDOOR UNIT MARK	MAKE	MODEL	COOLING TOTAL MBH	COOLING IEER	COOLING EER	HEATING TOTAL MBH	HEATING COP AT 47 F	ELECTRICAL VOLT/PH	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL SCCR kA	SOUND LEVEL dbA	OP. WT. LBS.	NOTES:
																	CM-1	MITSUBISHI	PURY-P144TLMU-A	144	24.3	14	160	3.72	208 / 3	52	80	NOTE C	61	700	1, 2
FC-1A	MITSUBISHI	PLFY-P15NCMU-ER4	BEANERY	390	-	14.2	9.7	75/63	88	N	403.6	10.8	208/1	0.35	40	45														A, D, 4, 5
FC-1B	MITSUBISHI	PLFY-P15NCMU-ER4	BEANERY	390	-	14.2	9.7	75/63	88	N	403.6	10.8	208/1	0.35	40	45														D, 4, 5
FC-2	MITSUBISHI	PLFY-P24NEMU-E	DAY ROOM	700	-	22.6	16.5	75/63	88	N	403.6	17.3	208/1	0.51	37	60														A, D, 4, 5
FC-3	MITSUBISHI	PKFY-P06NBMU-E2	SLEEP ROOM 1	200	-	5.6	4.1	75/63	88	N	403.6	4.2	208/1	0.19	35	30														A, B, 4
FC-4	MITSUBISHI	PKFY-P06NBMU-E2	SLEEP ROOM 2	200	-	5.6	4.1	75/63	88	N	403.6	4.2	208/1	0.19	35	30														A, B, 4
FC-5	MITSUBISHI	PKFY-P06NBMU-E2	SLEEP ROOM 3	200	-	5.6	4.1	75/63	88	N	403.6	4.2	208/1	0.19	35	30														A, B, 4
FC-6	MITSUBISHI	PKFY-P06NBMU-E2	SLEEP ROOM 4	200	-	5.6	4.1	75/63	88	N	403.6	4.2	208/1	0.19	35	30														A, B, 4
FC-7	MITSUBISHI	PKFY-P06NBMU-E2	SLEEP ROOM 5	200	-	5.6	4.1	75/63	88	N	403.6	4.2	208/1	0.19	35	30														A, B, 4
FC-8	MITSUBISHI	PKFY-P18NHMU-E2	FITTNESS	400	-	17.0	11.7	75/63	88	N	403.6	12.7	208/1	0.38	41	35														A, B, 4
FC-9	MITSUBISHI	PKFY-P18NHMU-E2	FITTNESS	400	-	17.0	11.7	75/63	88	N	403.6	12.7	208/1	0.38	41	35														B, 4
FC-10	MITSUBISHI	PKFY-P12NHMU-E2	LT OFFICE AND SLEEP	370	-	11.3	8.6	75/63	88	N	403.6	8.6	208/1	0.38	38	35														A, B, 4
FC-11	MITSUBISHI	PEFY-P15NMAU-E3	LOBBY AND CORRIDOR	400	0.5	14.1	11.1	75/63	88	N	403.6	10.8	208/1	1.45	34	75														A, B, 3

NOTES:
1. MANUFACTURER'S DIGITAL CONTROL SYSTEM WITH AE-200A CENTRAL CONTROLLER.
2. CONTROL POWER SUPPLY UNIT.
3. 2" PLEATED MERV 8 FILTER INSTALLED IN FACTORY FBM FILTER BOX.
4. FACTORY PROVIDED WASHABLE FILTER.
5. CEILING TRIM PANEL

A. SMART ME REMOTE CONTROLLER.
B. PROVIDE WITH BLUEDIAMOND CONDENSATE PUMP
C. SEE SPECIFICATIONS AND ELECTRICAL
D. INTEGRAL CONDENSATE PUMP

RICE ARCHITECTURE & PLANNING fergus MILLER
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
FAX 792-1385
INFO@RFMARCH.COM

SIDER + BYERS MECHANICAL ENGINEERS
192 Nickerson, Suite #300
Seattle, Washington 98109
Phone: 206.285.2966

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 63
33414 S 21st AVE SOUTH
FEDERAL WAY, WA

PROJECT # 16006
BID SET
ISSUED: DECEMBER 1, 2016
REVISION SCHEDULE
1 ADDENDUM #1 12-16-16

SCHEDULES

SHEET:
M00.03

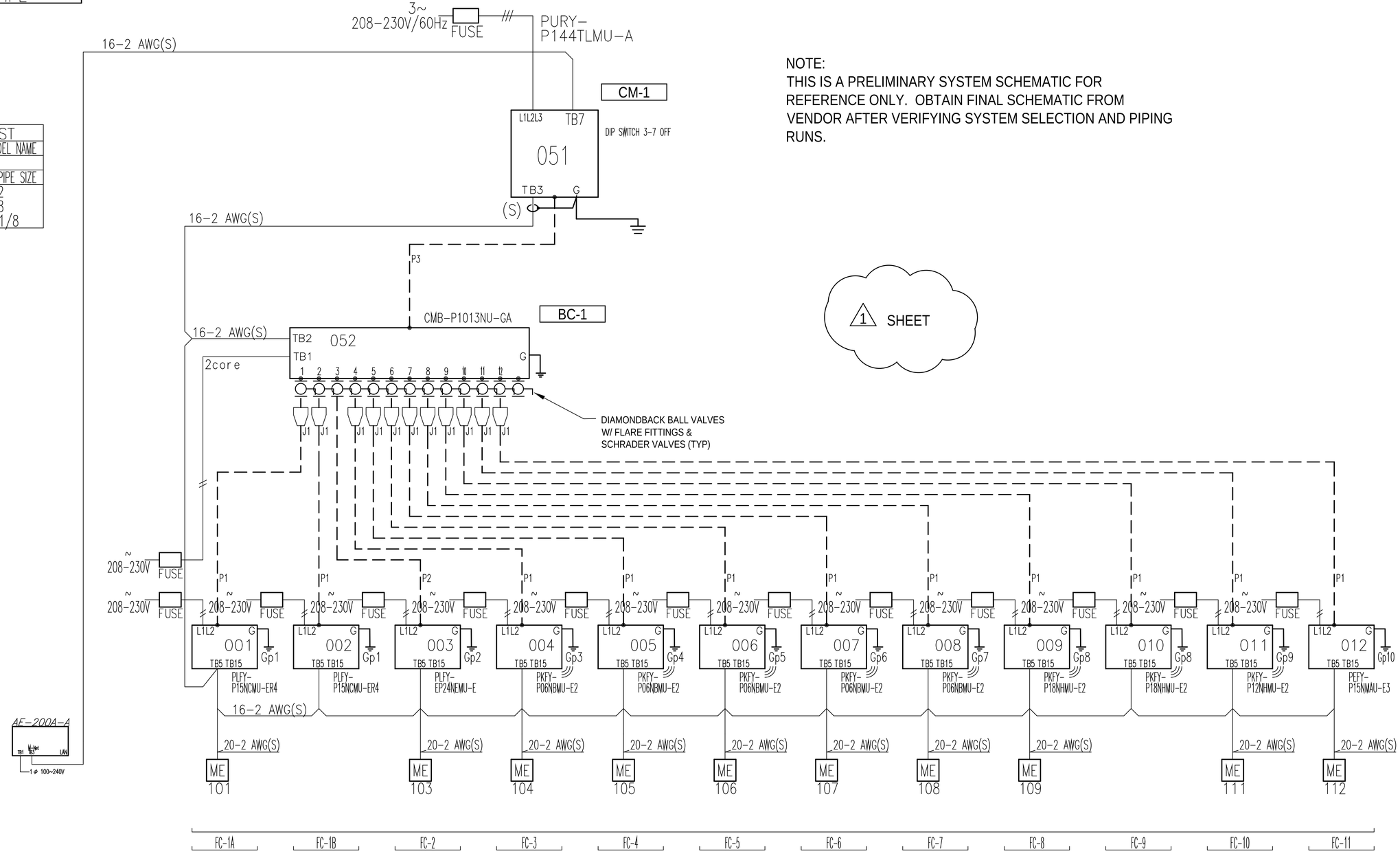
DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
—//—	POWER WIRE
———	CONTROL WIRE
— —	REF. PIPE

CONT.No		PAGE	

CITY MULTI
SYSTEM SCHEMATIC DWG.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).

PIPING LIST		
SYMBOL	BRANCH PIPE MODEL NAME	
J1	Reducer	
SYMBOL	LIQUID PIPE/GAS PIPE SIZE	
P1	1/4	/ 1/2
P2	3/8	/ 5/8
P3	7/8	/ 1-1/8



NOTE:
THIS IS A PRELIMINARY SYSTEM SCHEMATIC FOR REFERENCE ONLY. OBTAIN FINAL SCHEMATIC FROM VENDOR AFTER VERIFYING SYSTEM SELECTION AND PIPING RUNS.

1 SHEET

RICE ARCHITECTURE & PLANNING fergus MILLER
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
FAX 792-1385
INFO@RFMARCH.COM

SIDER+BYERS
MECHANICAL ENGINEERS
192 Nickerson, Suite #300
Seattle, Washington 98109
Phone: 206.285.2966

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 63
33414 S 21st AVE SOUTH
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PROJECT # 16006

BID SET

ISSUED: DECEMBER 1, 2016

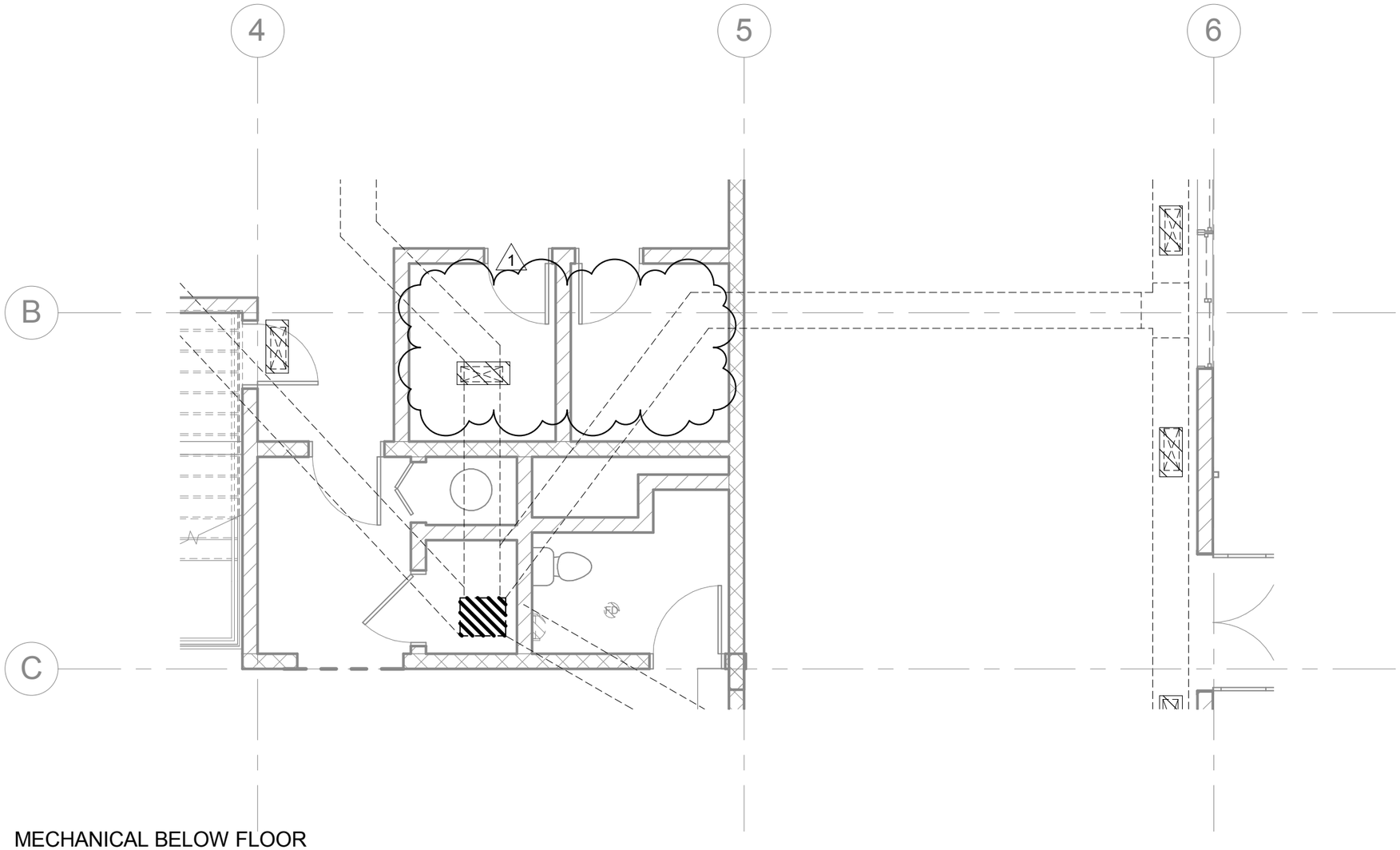
REVISION SCHEDULE

1	ADDENDUM #1	12-16-16

VRF DIAGRAM

SHEET:

M40.01



1 MECHANICAL BELOW FLOOR DEMOLITION
3/16" = 1'-0"

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MECHANICAL ENGINEERS

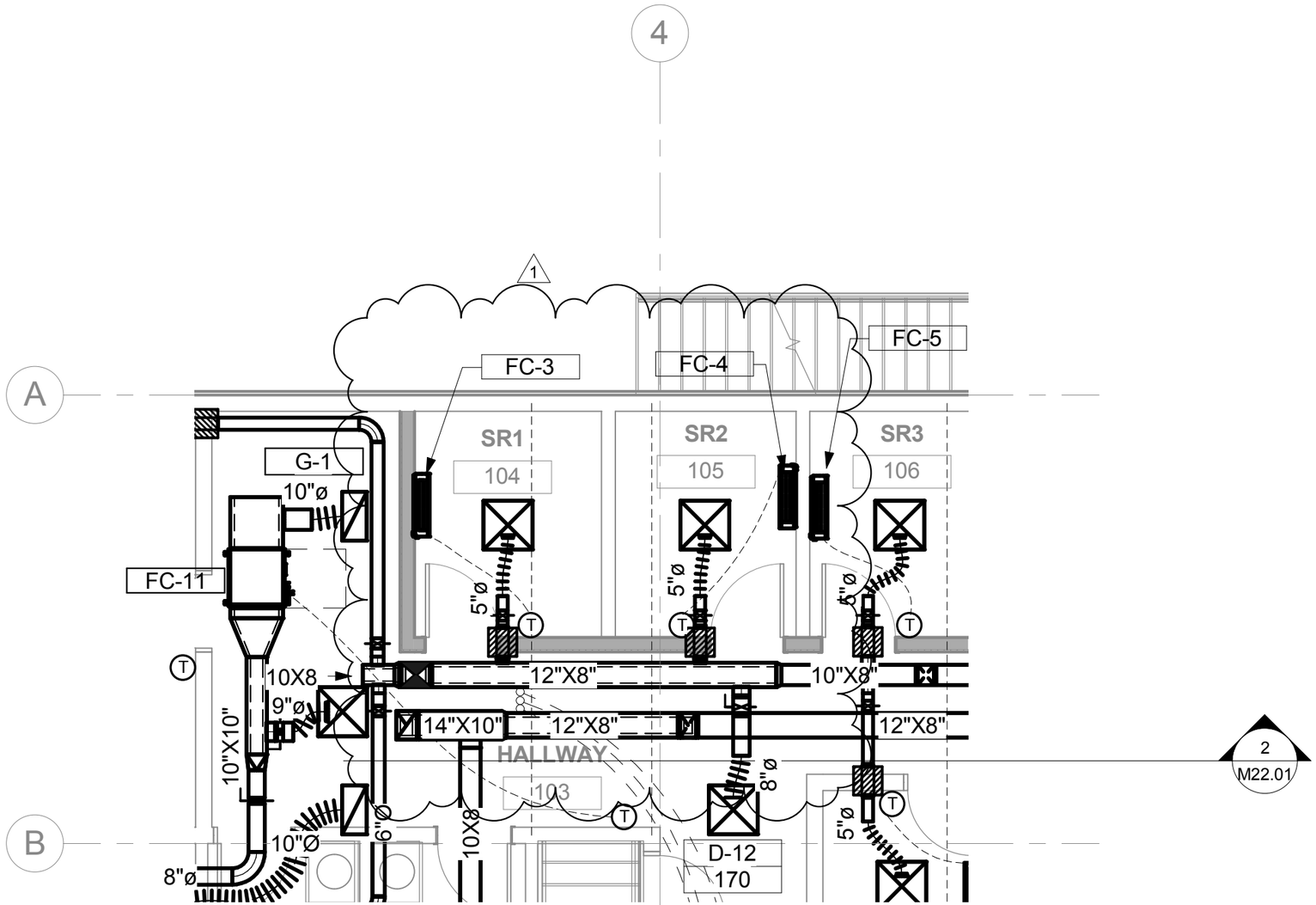
192 Nickerson, Suite #300
Seattle, Washington 98109
Phone: 206.285.2966
Fax: 206.285.1045

SKFR 63

Project number	16006
Date	12-16-16
Reference Sheet	M20.10

MSK-1

Scale 3/16" = 1'-0"



1 MECHANICAL LEVEL 1
3/16" = 1'-0"

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MECHANICAL ENGINEERS

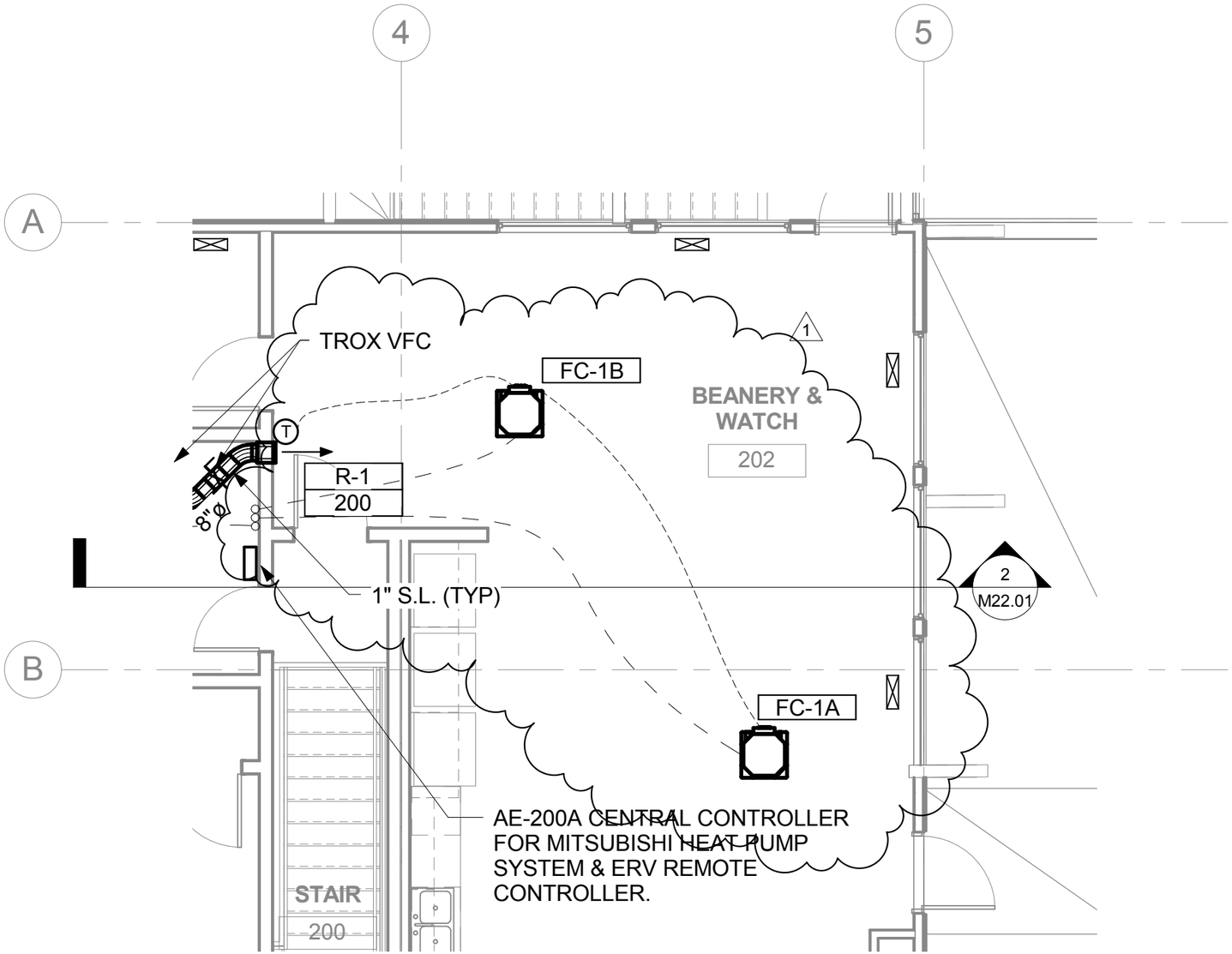
192 Nickerson, Suite #300
Seattle, Washington 98109
Phone: 206.285.2966
Fax: 206.285.1045

SKFR 63

Project number	16006
Date	12-16-16
Reference Sheet	M21.11

MSK-2

Scale 3/16" = 1'-0"



1 MECHANICAL MEZZANINE
3/16" = 1'-0"

SIDER+BYERS
MECHANICAL ENGINEERS

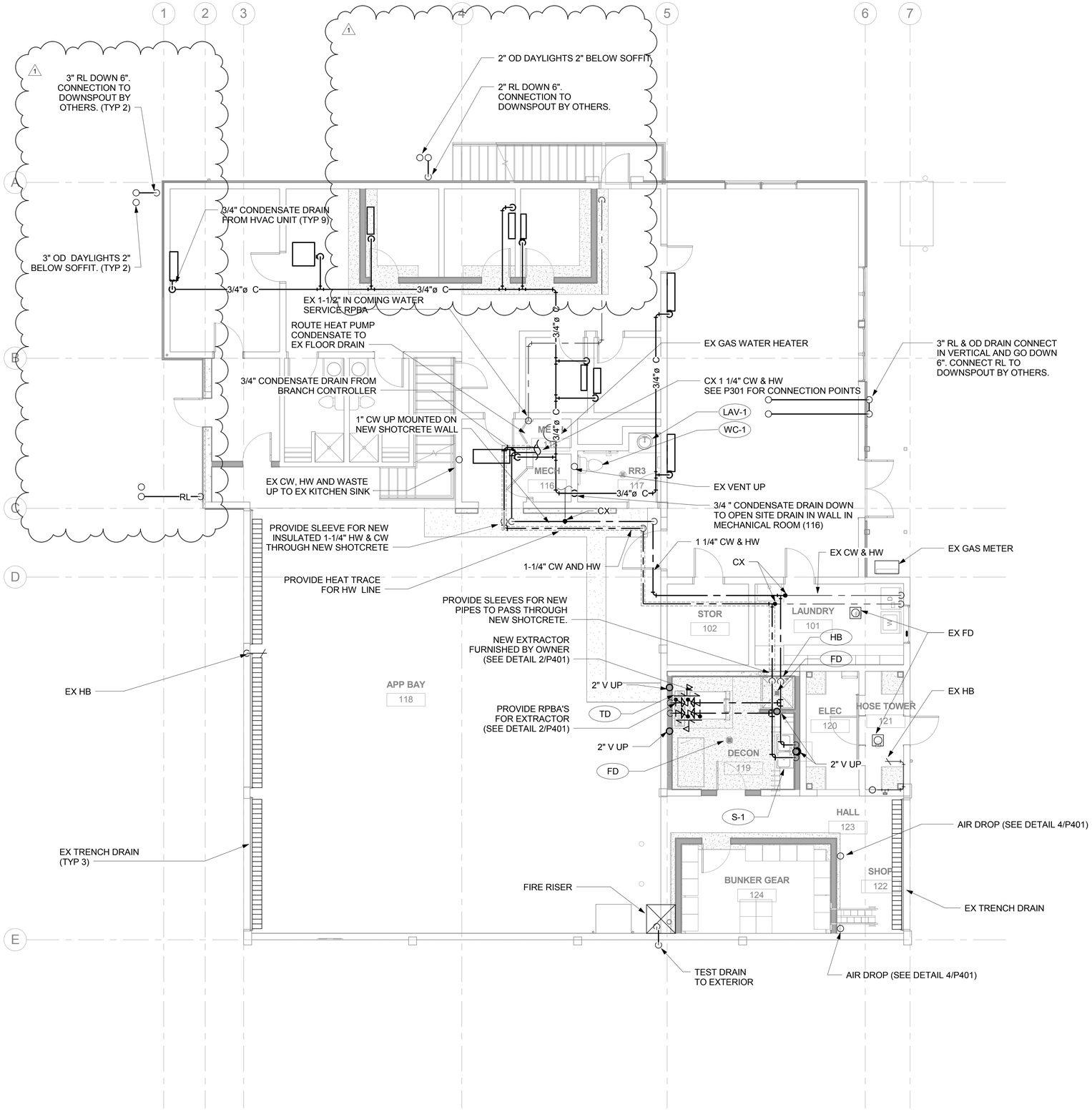
192 Nickerson, Suite #300
Seattle, Washington 98109
Phone: 206.285.2966
Fax: 206.285.1045

SKFR 63

Project number	16006
Date	12-16-16
Reference Sheet	M21.12

MSK-3

Scale 3/16" = 1'-0"



1 PLUMBING LEVEL 1
3/16" = 1'-0"

RICE ARCHITECTURE & PLANNING fergus MILLER
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
FAX 792-1385
INFO@RFMARCH.COM

SIDER • BYERS
MECHANICAL ENGINEERS
192 Nickerson, Suite #300
Seattle, Washington 98109
Phone: 206.285.2966
Fax: 206.285.1045

SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 63
33414 S 21st AVE SOUTH
FEDERAL WAY, WA

PROJECT # 16006

BID SET

ISSUED: DECEMBER 1, 2016

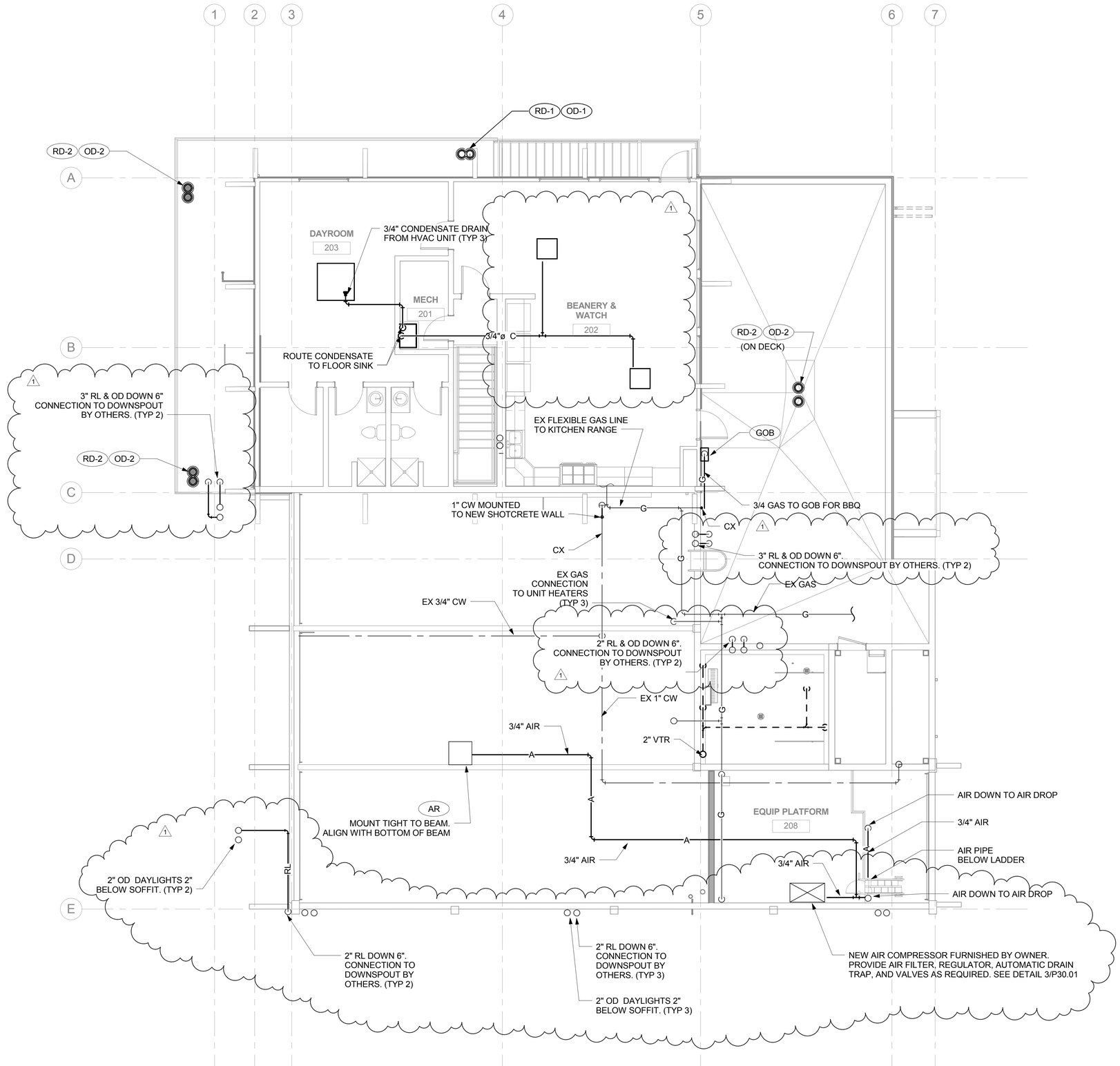
REVISION SCHEDULE

1	Addendum #1	12-16-16

PLUMBING LEVEL 1

SHEET:

P21.11



1 PLUMBING MEZZANINE
3/16" = 1'-0"

RICE ARCHITECTURE & PLANNING fergus MILLER
275 FIFTH STREET
SUITE 100
BREMERTON, WA 98337
(360) 377-8773
FAX 792-1385
INFO@RFMARCH.COM

SIDER • BYERS
MECHANICAL ENGINEERS
192 Nickerson, Suite #300
Seattle, Washington 98109
Phone: 206.285.2966
Fax: 206.285.1045

SOUTH KING FIRE & RESCUE FACILITYSIMPROVEMENTS

FIRE STATION 63
33414 S 21st AVE SOUTH
FEDERAL WAY, WA

PROJECT # 16006

BID SET

ISSUED: DECEMBER 1, 2016

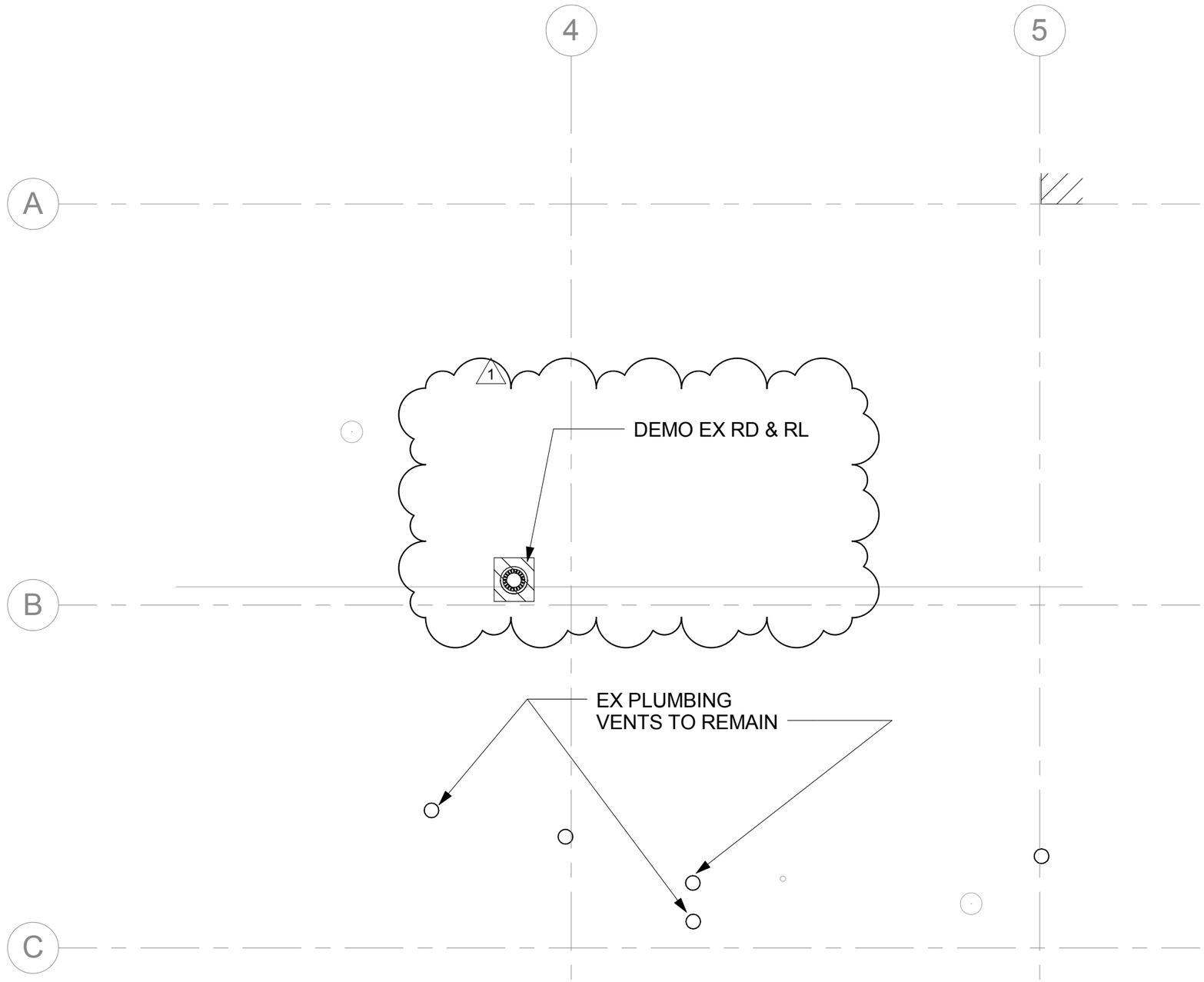
REVISION SCHEDULE

1	Addendum #1	12-16-16

PLUMBING
MEZZANINE

SHEET:

P21.12



1 PLUMBING ROOF DEMOLITION
3/16" = 1'-0"

SIDER + BYERS
MECHANICAL ENGINEERS

192 Nickerson, Suite #300
Seattle, Washington 98109
Phone: 206.285.2966
Fax: 206.285.1045

SKFR 63

Project number	16006
Date	12-16-16
Reference Sheet	P20.13

PSK-1

Scale 3/16" = 1'-0"

Advancement of Construction Technology

SUBSTITUTION REQUEST

(During the Bidding Phase)

Project: Facilities Improvements Station 68

To: Rice Fergus Miller, Inc

Re:

Substitution Request Number:

From: Airline Louvers

Date: 12/12/16

A/E Project Number:

Contract For:

Specification Title: Louvered Equipment Enclosures

Description:

Section: 089200 Page: 2

Article/Paragraph: 2.3, A, 1

Proposed Substitution: AS2L45HE

Manufacturer: Airline Louvers Address: Prince Frederick, MD Phone: 570 420 1089

Trade Name: Louvers Model No.: AS2L45HE

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

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

Submitted by: Adam Beal

Signed by:

Firm:

Address:

Telephone:

A/E's REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Section 01330.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
☐ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by: Date:

Supporting Data Attached: ☐ Drawings X☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐_____

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99 Canal Center Plaza, Suite 300 Alexandria, VA 22314

RICE fergus MILLER
architecture interiors planning vizlab

Station 63 Pre-bid Walkthrough.

Dec. 8, 2016

Name	Company	Phone	Email
John Rolland	Alutiiq	253-985-5020	Jrolland@alutiiq.com
Brian Reynolds	Reynolds General Contracting	206-707-5877	brian@reynoldsgc.com
Daniel Choi	Good News Groups	253 267-3660	danielC@goodnewsgroups.com
Ryan Covington	Allen-Bradbury Const.	253-218-2288	ryan@allenbradburyconstruction.com
Tom Moore	Macro-Z-Technology	253-536-1411	estimating@mztco.com
JR Leerkamp	Capital Heating	360 239-7818	jr@capitalheatingandcooling.com
Michael Miltimore	General Mechanical	253-606-0687	MMiltimore@generalmechanical.com
Michael Arnot	Acco	253 854 8444	MArnot@accoservice.com
Todd Ray	Pacific NW Environmental	206 596 8560	ToddR@icgpnw.com
Darren Moon	Lake Tapps Const.	253-863-6442	darrel@laketappsconstruction.com
Alan Patrick	Western Ventures Const.	425-640-5050	apatrick@westernventures.com
Eric Nylund	Westmark Const.	253-564-4620	bids@westmarkconst.com
EVA Johnson	RedHawk Fire Prot.	253 840-9100	EvaJ@RedHawkFP.com
Guy Hamilton	Crosent Sheet Metal	253-833-5054	guy@crosentsheetmetal.com
Zach Holley	Northwest Abatement	253 548 4911	ZACH@NWABATEMENT.com