

RENOVATIONS

**OLD WOODBRIDGE FIRE STATION  
4 NEWTON ROAD  
WOODBIDGE, CT 06525  
BID #2018-13**

S/P+A PROJECT NO. 11.147

**DATE: May 31, 2018**

The following changes to the Drawings and Project Specifications shall become a part of the Drawings and Project Specifications; superseding previously issued Drawings and Project Specifications to the extent modified by Addendum No. 1.

**General Information:**

- The prebid sign-in sheet is attached for reference. (1)
- The deadline for RFIs is Friday, June 1, 2018, end of day.
- Documents can be viewed at [www.woodbridgect.org](http://www.woodbridgect.org) under the Government tab, Requests for Bids/Proposals.

**Changes to the Specifications:**

- BID FORM has been deleted in its entirety. A new BID FORM has been added and is attached as part of this addendum. (6)
- SECTION 012300, ALTERNATES, Page 2, Article 3.1, add the following:

“E. **ADD ALTERNATE NO. 5: Roof Replacement:** Add to the Base Bid the labor, material and equipment to remove the existing rolled roofing down to deck where indicated in Drawing A5. Work will include the provision and installation of new insulation, EPDM membrane, sheet metal flashing and trim, and all associated components for a weathertight installation. Refer to Sections 075323 and 762000 for additional information.”
- SECTION 024119, SELECTIVE DEMOLITION, Page 3, Article 1.9.D., revise to read as follows:

“Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.

  1. Hazardous materials will be removed by Owner before start of the Work.
  2. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.”

**Changes to the Drawings:**

- DRAWING A5, SECOND FLOOR PLAN & DOOR SCHEDULE has been deleted in its entirety. A new DRAWING A5 has been added and is attached as part of this addendum.\*

- DRAWING P1, PLUMBING FLOOR PLANS & RISER DIAGRAMS, First Floor Plumbing Plan 1, revise “Exercise Room 111” to read “Exercise Room #2 112”.
- DRAWING P1A, PLUMBING PART PLANS - ALTERNATES has been deleted in its entirety. A new DRAWING P1A has been added and is attached as part of this addendum.\*
- DRAWING P2, PLUMBING LEGENDS, SCHEDULES & NOTES has been deleted in its entirety. A new DRAWING P2 has been added and is attached as part of this addendum.\*

**The bid date is unchanged by this addendum.**

The addendum consists of nine (9) pages of 8½” x 11” text and three (3) 30” x 42” drawings\*.  
End of Addendum ‘1’


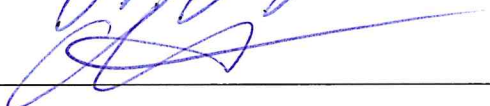




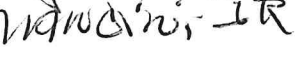
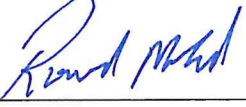


## TOWN OF WOODBRIDGE WALK THRU SIGN-IN SHEET

Bid Number: 2018-13

Time: 10:00

Subject of Bid Request: Old Fire Station Renovations

| PRINTED NAME            | SIGNATURE   | VENDOR                              |
|-------------------------|---|-------------------------------------|
| Jeff Jagoe              |    | THP                                 |
| Drew Pallotto           |    | Robison Inc                         |
| Tim Keegan              |  | John L. Simpson Co. Inc.            |
| Roel Legaspi            |  | Nozal Builders Inc.<br>860-250-2445 |
| Glen Wilson             |  | CT Mechanical Solutions             |
| JOHN GENNARINI          |  | GENNARINI CONST CO INC              |
| MICHAEL M. MANDUCCI, JR |  | MIR CONST CO                        |
| RONALD MCCORD           |  | Bay Restorations LLC                |
|                         |   |                                     |
|                         |   |                                     |
|                         |   |                                     |

(To be submitted in duplicate)

BIDDER: \_\_\_\_\_  
Name  
\_\_\_\_\_  
Address

To: **Finance Director**  
**11 Meetinghouse Lane**  
**Woodbridge, Connecticut 06525**

Project: **Old Woodbridge Fire Station Renovations**  
**4 Newton Road**  
**Woodbridge, Connecticut 06525**  
**BID #2018-13**

In preparing this bid, we have carefully examined the Bidding Documents for this Project. We have visited the site and noted the conditions affecting the Work.

The Bidding Documents referred to include Drawings and Project Manual dated May 18, 2018, prepared by Silver/Petrucci + Associates, Inc., Hamden, Connecticut.

We propose to perform the work described in the Bidding Documents, in keeping with definitions of Article 1 of the Instructions to Bidders, for the Base Bid Sum of:

**Base Bid:**

**Entire Project for the Total Lump Sum Cost of:**

\_\_\_\_\_ Dollars (\$) .00)

written figure

We will commence work on the project \_\_\_\_\_ calendar days after receipt of "Notice to Proceed" or signing of Contract. We will be able to substantially complete the project within \_\_\_\_\_ calendar days. (See Section 011000 and SIB-1, 1.1.A.)

We propose to perform the work described in the Bidding Documents as comprised of in the following Schedules of Values which is to equal that of the Base Bid:

**Contractor must fill out items below. Items that do not apply note as" NA".**

**First Floor Schedule of Values:**

- 1. General Requirements (permits, insurance, etc.)  
Div. 1 – Subtotal \_\_\_\_\_
- 2. Demolition  
Div. 2 – Subtotal \_\_\_\_\_
- 3. Cast-In-Place Concrete  
Div. 3 – Subtotal \_\_\_\_\_

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|     |  |       |       |
|-----|--|-------|-------|
| 4.  | Concrete Unit Masonry (including 2 <sup>nd</sup> floor elevator shaft) |       |       |
|     | Div. 4 – Subtotal  |       | _____ |
| 5.  | Metal Fabrications & Railings  |       |       |
|     | Div. 5 – Subtotal  |       | _____ |
| 6.  | Rough & Finish Carpentry   |       |       |
|     | Div. 6 – Subtotal  |       | _____ |
| 7.  | Insulation   | _____ |       |
|     | Waterproofing, Barriers & Siding                                       | _____ |       |
|     | Roofing, Flashing & Accessories  | _____ |       |
|     | Firestopping & Sealants  | _____ |       |
|     | Div. 7 – Subtotal  |       | _____ |
| 8.  | Doors & Frames   | _____ |       |
|     | Windows & Louvers  | _____ |       |
|     | Door Hardware  | _____ |       |
|     | Glazing  | _____ |       |
|     | Div. 8 – Subtotal  |       | _____ |
| 9.  | Gypsum Board System  | _____ |       |
|     | Tile Floors & Walls  | _____ |       |
|     | Flooring & Ceilings  | _____ |       |
|     | Paint  | _____ |       |
|     | Div. 9 – Subtotal  |       | _____ |
| 10. | Signage  | _____ |       |
|     | Toilet Compartments & Accessories                                      | _____ |       |
|     | Wall & Door Protection   | _____ |       |
|     | Fire Extinguishers   | _____ |       |
|     | Div. 10 – Subtotal   |       | _____ |
| 12. | Floor Mats   | _____ |       |
|     | Div. 12 – Subtotal   |       | _____ |
| 14. | Elevator   |       |       |
|     | Div. 14 – Subtotal   |       | _____ |
| 21. | Fire Suppression   |       |       |
|     | Div. 21 – Subtotal   |       | _____ |
| 22. | Plumbing   |       |       |
|     | Div. 22 – Subtotal   |       | _____ |
| 23. | HVAC   |       |       |
|     | Div. 23 – Subtotal   |       | _____ |
| 26. | Power  | _____ |       |
|     | Lighting   | _____ |       |

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|                    |       |       |
|--------------------|-------|-------|
| Div. 26 – Subtotal |       | _____ |
| 28. Access Control | _____ |       |
| Fire Alarm System  | _____ |       |
| Div. 28 – Subtotal |       | _____ |
| 31. Earth Moving   |       |       |
| Div. 31 – Subtotal |       | _____ |

**Second Floor Schedule of Values:**

|  |       |       |
|--|-------|-------|
| 1. General Requirements (permits, insurance, etc.) |       |       |
| Div. 1 – Subtotal                                  |       | _____ |
| 2. Demolition (excluding elevator shaft)           |       |       |
| Div. 2 – Subtotal                                  |       | _____ |
| 6. Rough & Finish Carpentry                        | _____ |       |
| Cabinetry  | _____ |       |
| Div. 6 – Subtotal                                  |       | _____ |
| 7. Insulation                                      | _____ |       |
| Firestopping & Sealants                            | _____ |       |
| Div. 7 – Subtotal                                  |       | _____ |
| 8. Doors & Frames                                  | _____ |       |
| Door Hardware                                      | _____ |       |
| Glazing  | _____ |       |
| Div. 8 – Subtotal                                  |       | _____ |
| 9. Gypsum Board System (excluding Stair #2)        | _____ |       |
| Flooring & Ceilings                                | _____ |       |
| Paint  | _____ |       |
| Div. 9 – Subtotal                                  |       | _____ |
| 10. Signage  | _____ |       |
| Toilet Accessories                                 | _____ |       |
| Wall & Door Protection                             | _____ |       |
| Fire Extinguishers                                 | _____ |       |
| Div. 10 – Subtotal                                 |       | _____ |
| 11. Appliances                                     |       |       |
| Div. 11 – Subtotal                                 |       | _____ |
| 12. Countertops                                    |       |       |
| Div. 12 – Subtotal                                 |       | _____ |
| 21. Fire Suppression                               |       |       |
| Div. 21 – Subtotal                                 |       | _____ |

- 22. Plumbing  
Div. 22 – Subtotal \_\_\_\_\_
- 23. HVAC  
Div. 23 – Subtotal \_\_\_\_\_
- 26. Power (including for mechanical systems) \_\_\_\_\_  
Lighting \_\_\_\_\_  
Div. 26 – Subtotal \_\_\_\_\_
- 28. Fire Alarm System  
Div. 28 – Subtotal \_\_\_\_\_

**Alternates:**

The undersigned proposes to furnish all Labor, Materials, Equipment and Services necessary to construct the items listed in the Alternates described in Section 012300 for the stipulated sum of:

**ADD ALTERNATE NO. 1: Mechanical Screen Enclosure:** Add to the Base Bid a Total of:

\$ \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ .00).  
written figure

The project schedule will be (increased/decreased) by \_\_\_\_\_ calendar days to complete the work indicated under Add Alternate 1.

**ADD ALTERNATE NO. 2: Bay 3 (Exercise Room #2 112):** Add to the Base Bid a Total of:

\$ \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ .00).  
written figure

The project schedule will be (increased/decreased) by \_\_\_\_\_ calendar days to complete the work indicated under Add Alternate 2.

**ADD ALTERNATE NO. 3: Ceramic Tile:** Add to the Base Bid a Total of:

\$ \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ .00).  
written figure

The project schedule will be (increased/decreased) by \_\_\_\_\_ calendar days to complete the work indicated under Add Alternate 3.

**ALTERNATE NO. 4: Voluntary Alternate**

For the work, methods, procedures or materials referenced below, we propose to (Add/Deduct) from the Base Bid a total of

\$ \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ .00)  
written figure

The project schedule will be (added) (decreased) by \_\_\_\_\_ calendar days to complete the work indicated under Alternate 4.

Voluntary Alternate Summary Description: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ADD ALTERNATE NO. 5: Roof Replacement:** Add to the Base Bid a Total of:

\$ \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ .00).  
written figure

The project schedule will be (increased/decreased) by \_\_\_\_\_ calendar days to complete the work indicated under Add Alternate 5.

**Unit Prices:**

As required by the Base Bid, should deteriorated or damaged materials be required to be removed as determined by the Architect or Owner, the cost to remove and replace the referenced material, (or credit for specified material not provided or installed) including all labor, material, equipment and related furnishings is as follows:

- 1. T&G wood decking substrate, thickness to match existing deck to be removed (including deteriorated substrate removal, credit and add) \$ \_\_\_\_\_/sf
- 2. Add pressure treated wood blocking, as specified, cut to fit around roof structure and systems and installed \$ \_\_\_\_\_/bf
- 3. Deduct pressure treated wood blocking, as specified, cut to fit around roof structure and systems and installed \$ \_\_\_\_\_/bf

If written notice of the acceptance of this Bid is mailed, telegraphed or delivered to the undersigned at the Address designated below, within ninety (90) days after the date of Bid Opening, or any time thereafter before this Bid is withdrawn, the undersigned will, within ten (10) days after the date of mailing, telegraphing or delivering of the notice, execute and deliver a contract in the Agreement Between the Town of Woodbridge and Contractor as provided in this project manual.

The undersigned acknowledges that he has examined the documents, visited and examined the site as required under "Instructions to Bidders", examined the availability of labor and materials and further agrees to comply with all the requirements as to the conditions of employment and wage rates set forth in the Contract Documents.

**Addenda:**

The undersigned acknowledges receipt of the following addenda to the Contract Documents, listed by number and date:

Number \_\_\_\_\_, Dated: \_\_\_\_\_      Number \_\_\_\_\_, Dated: \_\_\_\_\_  
Number \_\_\_\_\_, Dated: \_\_\_\_\_      Number \_\_\_\_\_, Dated: \_\_\_\_\_



Exceptions:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

All bidders must return the following forms with their bid. Bids not including these forms shall be considered incomplete and rejected.

**ATTACHMENTS – Contractor is to attach the following**

- 1. Bid Bond**
- 2. CHRO Bidder Contract Compliance Monitoring Report**
- 3. Non-Collusion Affidavit**
- 4. Delinquent Tax Affidavit**
- 5. Certification of Bidder**
- 6. Reference Sheet Listing**
- 7. Form W-9**
- 8. Site Specific Safety Program**
- 9. Preliminary Construction Schedule**

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name and Title  
of Agent submitting bid: \_\_\_\_\_

Name of Company: \_\_\_\_\_

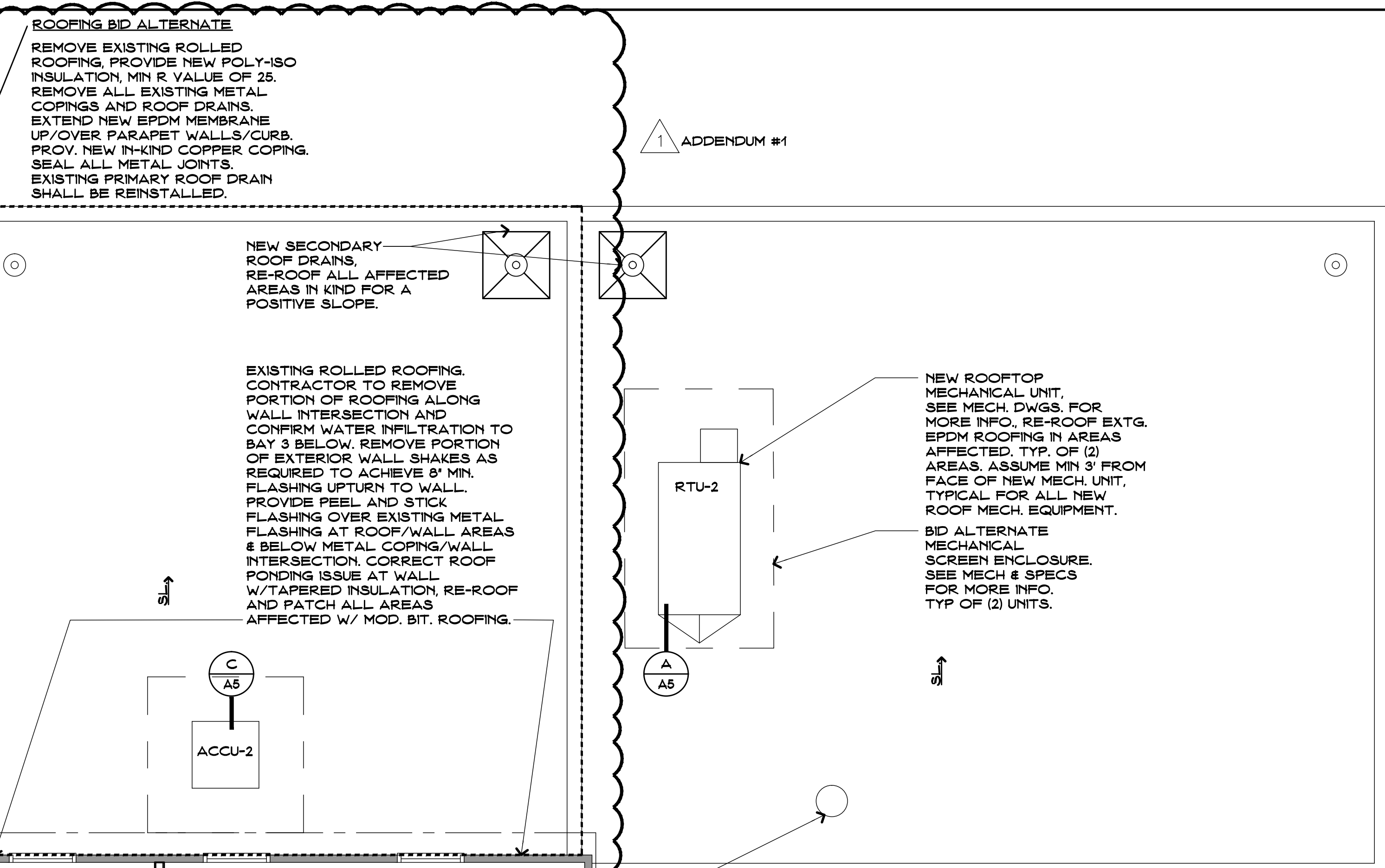
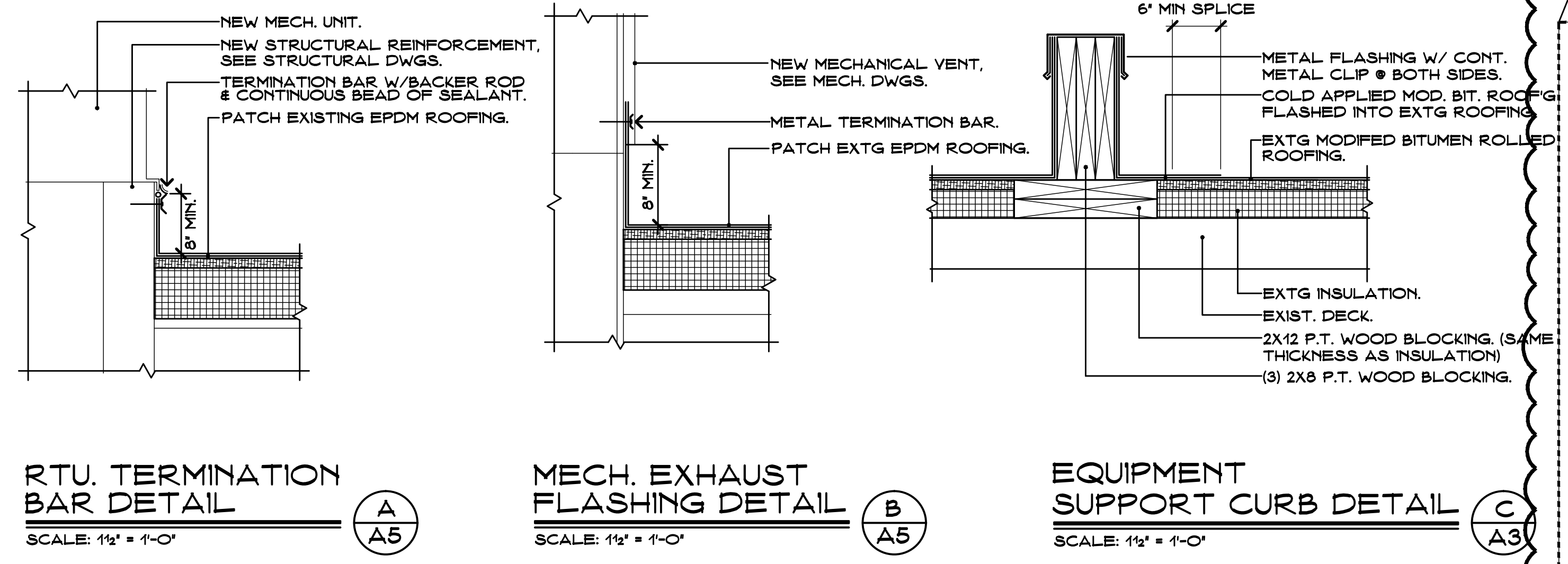
Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

Email: \_\_\_\_\_

This Bid may be withdrawn prior to the scheduled Bid Opening or any postponement thereof.



**RTU TERMINATION BAR DETAIL**  
SCALE: 1/2" = 1'-0"

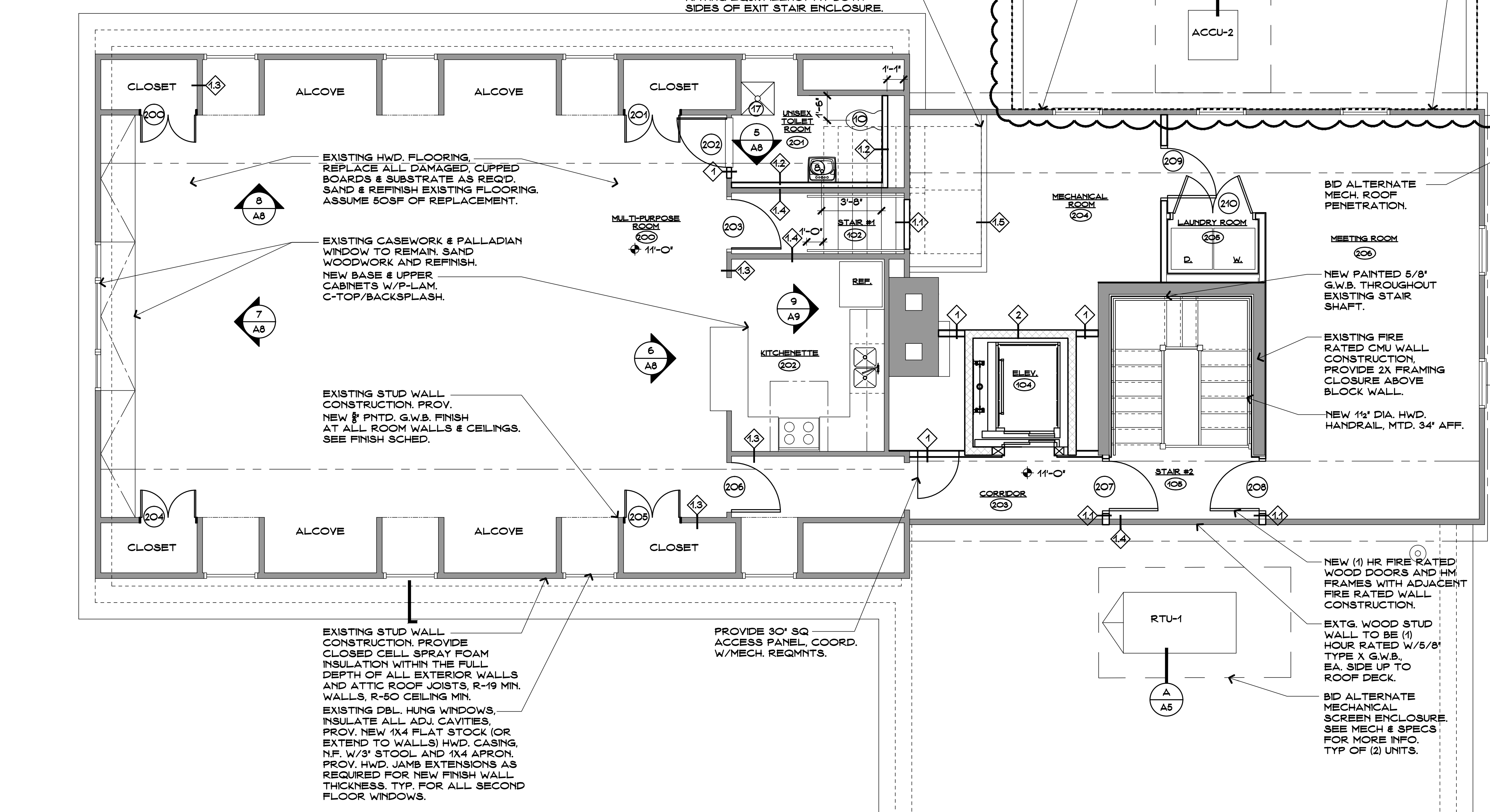
**MECH. EXHAUST FLASHING DETAIL**  
SCALE: 1/2" = 1'-0"

**EQUIPMENT SUPPORT CURB DETAIL**  
SCALE: 1/2" = 1'-0"

**ROOFING BID ALTERNATE**  
REMOVE EXISTING ROLLED ROOFING. PROVIDE NEW POLY-ISO INSULATION, MIN R VALUE OF 25. REMOVE ALL EXISTING METAL COPINGS AND ROOF DRAINS. EXTEND NEW EPDM MEMBRANE UP/OVER PARAPET WALLS/CURB. PROV. NEW IN-KIND COPPER COPING. SEAL ALL METAL JOINTS. EXISTING PRIMARY ROOF DRAIN SHALL BE REINSTALLED.

EXISTING ROLLED ROOFING. CONTRACTOR TO REMOVE PORTION OF ROOFING ALONG WALL INTERSECTION AND CONFIRM WATER INFILTRATION TO BAY 3 BELOW. REMOVE PORTION OF EXTERIOR WALL. SHAKES AS REQUIRED TO ACHIEVE 3" MIN. FLASHING UP/TURN TO WALL. PROVIDE PEEL AND STICK FLASHING OVER EXISTING METAL FLASHING AT ROOF/WALL AREAS & BELOW METAL COPING/WALL INTERSECTION. CORRECT ROOF PONDING ISSUE AT WALL. W/TAPERED INSULATION, RE-ROOF AND PATCH ALL AREAS AFFECTED W/ MOD. BIT. ROOFING.

NEW ROOFTOP MECHANICAL UNIT. SEE MECH. DWGS. FOR MORE INFO. RE-ROOF EXTG. EPDM ROOFING IN AREAS AFFECTED. TYP. OF (2) AREAS. ASSUME MIN 3" FROM FACE OF NEW MECH. UNIT. TYPICAL FOR ALL NEW ROOF MECH. EQUIPMENT.



EXISTING HWD. FLOORING. REPLACE ALL DAMAGED, CUPTED BOARDS & SUBSTRATE AS REQD. SAND & REFINISH EXISTING FLOORING. ASSUME 50SF OF REPLACEMENT.

EXISTING CASEWORK & PALLADIAN WINDOW TO REMAIN. SAND WOODWORK AND REFINISH. NEW BASE & UPPER CABINETS W/P-LAM. C-TOP/BACKSPLASH.

EXISTING STUD WALL CONSTRUCTION. PROVIDE NEW 3/4" PNTD. G.W.B. FINISH AT ALL ROOM WALLS & CEILINGS. SEE FINISH SCHED.

EXISTING STUD WALL CONSTRUCTION. PROVIDE CLOSED CELL SPRAY FOAM INSULATION WITHIN THE FULL DEPTH OF ALL EXTERIOR WALLS AND ATTIC ROOF JOISTS, R-19 MIN. WALLS, R-50 CEILING MIN. EXISTING DBL. HUNG WINDOWS. INSULATE ALL ADJ. CAVITIES. PROV. NEW 1/4" FLAT STOCK (OR EXTEND TO WALLS) HWD. CASING, NF. W/3" STUCCO AND 1/4" APRON. PROV. HWD. JAMB EXTENSIONS AS REQUIRED FOR NEW FINISH WALL THICKNESS. TYP. FOR ALL SECOND FLOOR WINDOWS.

PROV. (1) HR. PRESCRIPTIVE FIRE RATING EQUIVALENCY AT BOTH SIDES OF EXIT STAIR ENCLOSURE.

PROV. 30" SQ ACCESS PANEL. COORD. W/MECH. REQMTS.

NEW (1) HR. FIRE RATED WOOD DOORS AND HM FRAMES WITH ADJACENT FIRE RATED WALL CONSTRUCTION.

EXTG. WOOD STUD WALL TO BE (1) HOUR RATED W/5/8" TYPE X G.W.B. EA. SIDE UP TO ROOF DECK.

BID ALTERNATE MECHANICAL SCREEN ENCLOSURE. SEE MECH & SPECS. FOR MORE INFO. TYP. OF (2) UNITS.

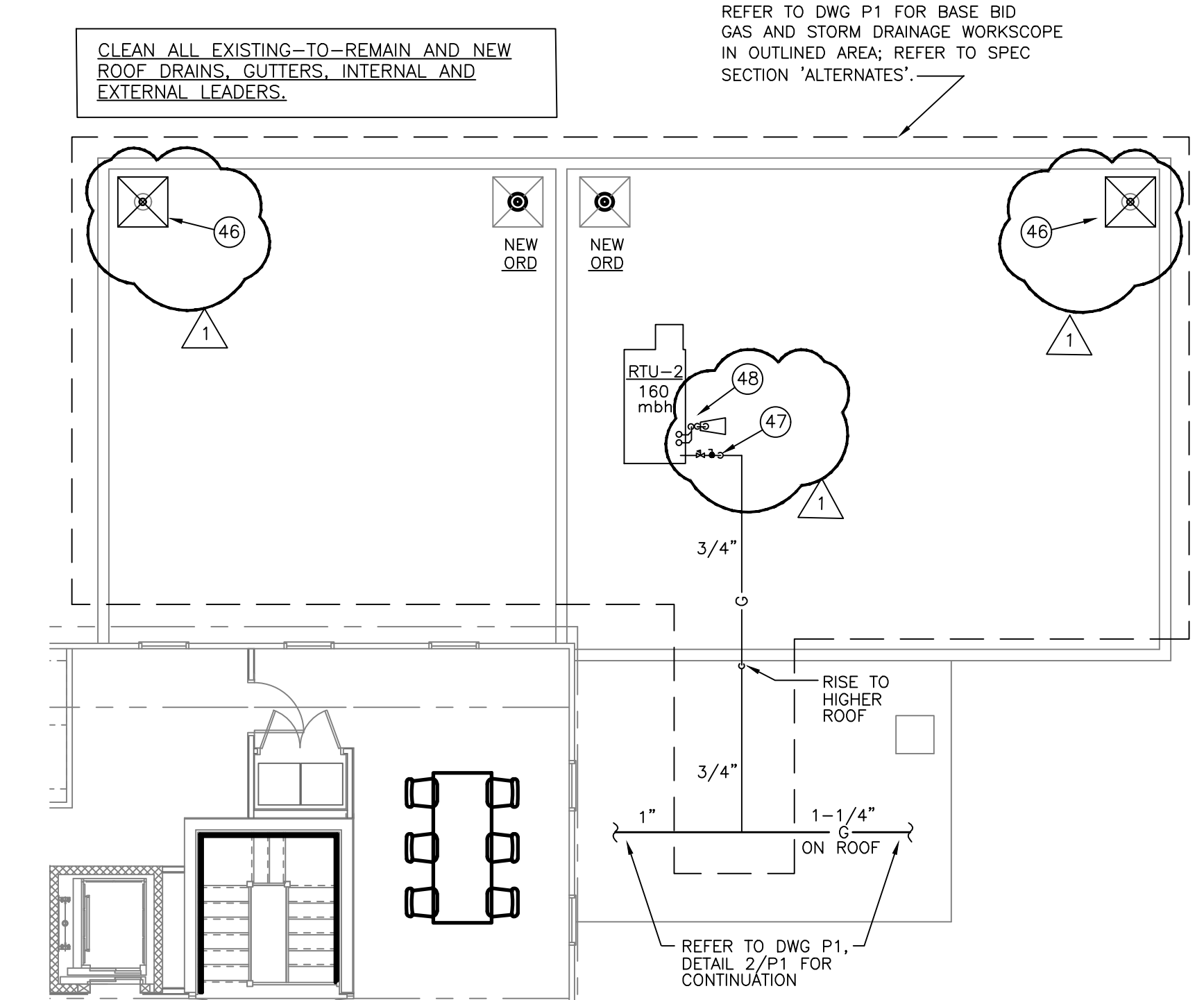
**SECOND FLOOR DOOR SCHEDULE**

| DOOR NUMBER | DOOR          |      | FRAME            |             |             | FIRE RATING | HARDWARE - SEE PROJECT MANUAL |           | REMARKS     |
|-------------|---------------|------|------------------|-------------|-------------|-------------|-------------------------------|-----------|-------------|
|             | SIZE          | TYPE | DETAIL/SHEET NO. | HEAD DETAIL | JAMB DETAIL |             | SADDLE DETAIL                 | FIRE CODE |             |
| 200         | 3'-0" X 6'-9" | 4 WD | A WD A A4 B A4   | A           | B           | 3           |                               |           |             |
| 201         | 6'-0" X 6'-9" | 4 WD | A WD A A4 B A4   | A           | B           | 3           |                               |           |             |
| 202         | 1'-5" X 6'-9" | 4 WD | A WD A A4 B A4   | A           | B           | 3           |                               |           | TOILET ROOM |
| 203         | 5'-4" X 5'-6" | 2 WD | B HM C A4 D A4   | A           | D           | 4           |                               |           | EXIT STAIR  |
| 204         |               | 4 WD | A WD A A4 B A4   | A           | B           | 3           |                               |           |             |
| 205         |               | 4 WD | A WD A A4 B A4   | A           | B           | 3           |                               |           |             |
| 206         |               | 4 WD | A WD A A4 B A4   | A           | B           | 3           |                               |           |             |
| 207         |               | 2 WD | B HM C A4 D A4   | A           | D           | 4           |                               |           | EXIT STAIR  |
| 208         |               | 2 WD | B HM C A4 D A4   | A           | D           | 4           |                               |           | EXIT STAIR  |
| 209         |               | 4 WD | A WD A A4 B A4   | A           | B           | 4           |                               |           |             |
| 210         |               | 4 WD | A WD A A4 B A4   | A           | B           | 3           |                               |           |             |

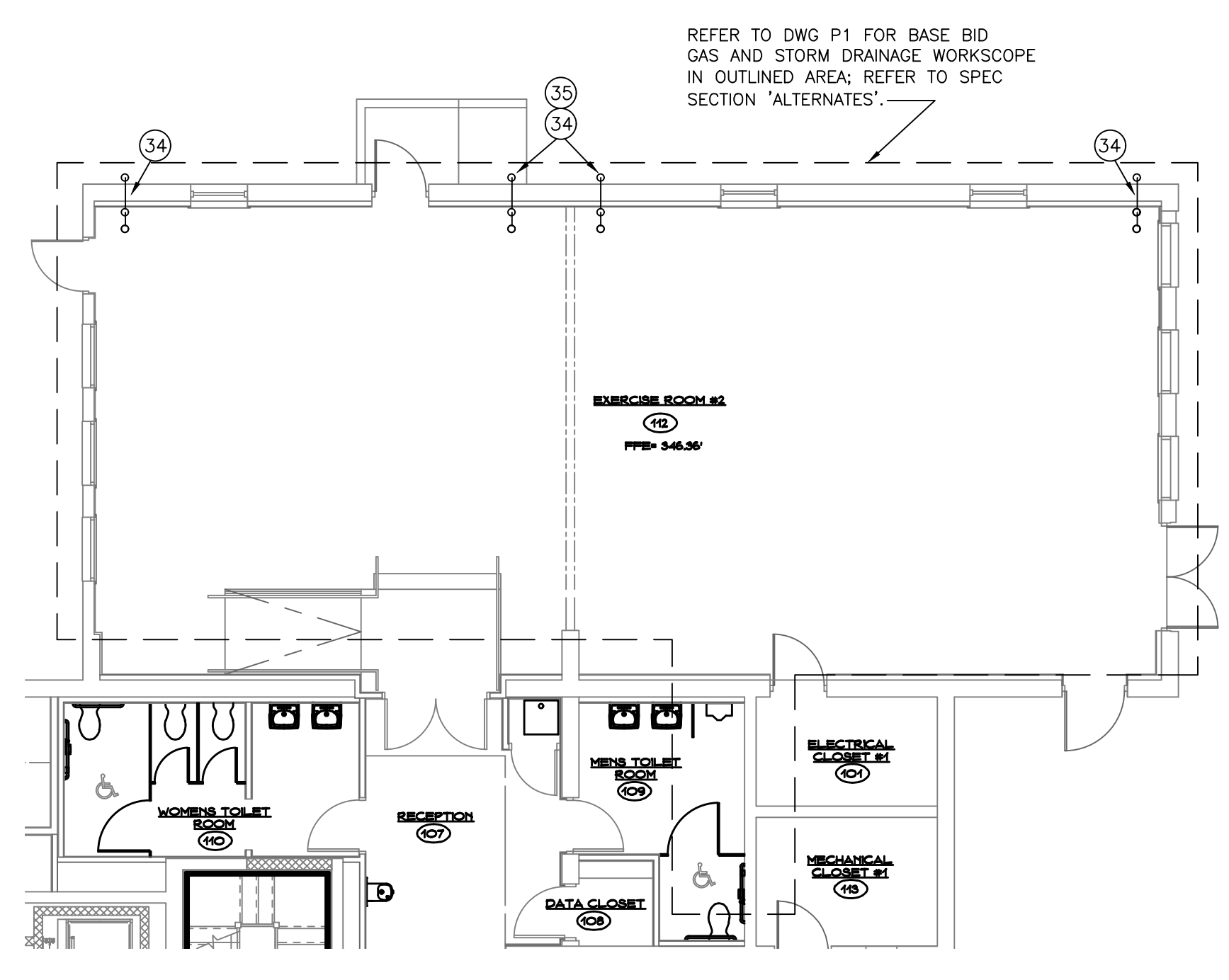
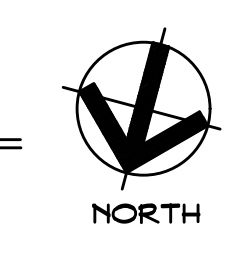
**LEGEND**  
HM - HOLLOW METAL  
TEMP - TEMPERED  
WD - WOOD

NOTE: PROVIDE HARDWOOD CASING AT ALL DOORS PER INTERIOR ELEVATIONS. CASING SHALL BE 5/4 X 4 JAMB AND HEADS AT HM. FRAMES. ROUT OUT MATERIAL AT NEW HM. FRAMES WITH A 1/4" REVEAL FROM FINISH OPENING.

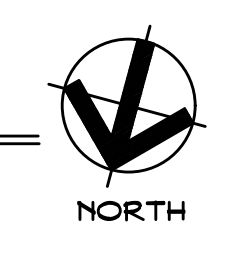
**SECOND FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



**2 PARTIAL SECOND FLOOR PLUMBING PLAN - ALTERNATE**  
 SCALE: 1/8" = 1'-0"



**1 PARTIAL FIRST FLOOR PLUMBING PLAN - ALTERNATE**  
 SCALE: 1/8" = 1'-0"



**KEY PLAN NOTES**

- 1 EXISTING DOMESTIC WATER SERVICE ENTRANCE AND METER TO REMAIN. VERIFY EXACT LOCATION IN FIELD. CONNECT TO METER ASSEMBLY DISCHARGE, PROVIDE NEW SHUTOFF, INCREASE TO 1 1/2" AND ROUTE ALL NEW CW IN BUILDING
- 2 ALL UNDERSLAB SAN/WASTE IN BUILDING REQUIRED TO BE ACTIVE AFTER RENOVATION SHALL BE NEW. DISUSED UNDERSLAB SAN/WASTE SHALL BE DISCONNECTED, CAPPED AND ABANDONED. (REMOVE ANY DISUSED PIPING WHICH CONFLICTS WITH NEW WORK.)
- 3 ALL UNDERSLAB SAN/WASTE IN BUILDING REQUIRED TO BE ACTIVE AFTER RENOVATION SHALL BE NEW. PROVIDE NEW BUILDING SAN EXIT AND CONNECT APPROXIMATELY HERE TO SITE SANITARY ROUTING TO EXISTING SITE SEWAGE DISPOSAL SYSTEM. COORDINATE SAN ROUTING CLOSELY WITH GAS UTILITY'S GAS SERVICE/METER INSTALLATION REQ'TS.
- 4 EXISTING RECENTLY INSTALLED GAS SERVICE METER/REGULATOR INSTALLATION. VERIFY FIELD-INDICATED 2 PSI REGULATOR DISCHARGE/METERING PRESSURE WITH GAS CO.
- 5 APPROX ROUTING OF EXISTING BUILDING SANITARY EXIT TO EXISTING SEPTIC TANKS. VERIFY EXACT SIZE AND LOCATION OF SAN EXIT, LEAVING INVERT, AND ROUTING DIRECTION IN THE FIELD, AND ADJUST NEW UNDERSLAB SAN/WASTE PIPING (INCLUDING STARTING INVERT) TO CONNECT TO SAME
- 6 1/2" CW, 1" HW, 3/4" HWR; ROUTE IN MECH'L SOFFIT WITH DUCTWORK (REFER TO ARCH'L AND MECH'L PLANS)
- 7 1" CW, 3/4" HW, 3/4" HWR
- 8 OVERHEAD 3" HW, 2" HWR, 1" CW AND 4" SAN MAINS. PROVIDE HIGHEST POSSIBLE SAN MAIN ROUTING ELEVATIONS REQUIRED TO SERVE ALL 2ND FLOOR FIXTURE INSTALLATIONS INDICATED ON THE DWGS. REFER TO DETAIL 1/P1 FOR CONTINUATION.
- 9 1/2" CW, 3/4" HW, 3/4" HWR
- 10 1/2" CW DROP, 2" V RISE IN WALL; 4" SAN DN (AT 1ST FLR MEN'S ROOM WC1-HC, PROVIDE 3" V IN LIEU OF 2" V FOR MAIN BUILDING VENT).
- 11 3/4" CW DROP, 1 1/2" V RISE IN WALL; 2" SAN DN
- 12 COLLECT LAV WASTES IN WALL WITH 1 1/2" CONN. INTO 2" URINAL SAN DN
- 13 1/2" HW&CW DROPS IN WALL; 3/4" HW&CW TO EACH LAV; 1 1/2" W/TRAP (TYP. EACH LAV)
- 14 COLLECT LAV WASTES IN WALL TO 2" W DOWN
- 15 1/2" H&CW, 3" W UP (MSK)
- 16 1/2" H&CW, 1-1/2" W UP (LAV)
- 17 1/2" CW, 4" SAN UP (WC)
- 18 1-1/2" GAS (2 PSI) FROM SERVICE METER/REGULATOR (CONTRACTOR'S WORK BEGINS AT DISCHARGE OF GAS CO'S SERVICE METER/REGULATOR INSTALLATION). TOTAL CONN. BUILDING LOAD: 789.8 MBH; NOTIFY GAS UTILITY OF 200 MBH ALLOWANCE FOR ALTERNATE WORK/FUTURE BLDG CONN. LOAD FOR USE IN SERVICE/METER SIZING
- 19 1-1/4" GAS WITH SHUTOFF VALVE. ROUTE INTO MECH'L CLOSET #1 AND RISE; RUN HIGH AS POSSIBLE. 399.8 MBH + 40 MBH FUTURE.
- 20 1-1/4" GAS WITH SHUTOFF VALVE; RISE ON WALL TO ROUTE ON ROOF; 390 MBH + 160 MBH ALTERNATE/FUTURE.
- 21 1" CW DROP TO TP1 AT (MIN.) 24" AFF ON WALL; 1/2" PRIMER FEED BELOW SLAB FROM PRIMER TO FD PRIMER CONN.
- 22 4" W WITH TRAP AND 2" V FROM FD1; 2" V RISE IN CORNER
- 23 DOMESTIC HOT WATER CIRCULATION PUMP; REFER TO SPECS ON DWG P2 AND DETAILS ON DWG P3/SCHEDULES AND DETAIL 3/P3; 3/4" CONNECTIONS
- 24 3/4" CW, 3" GAS TO 3" HW FROM GWH (TANKLESS CONDENSING GAS-FIRED DOMESTIC WATER HEATER) - TYPICAL OF 2; REFER TO SPECS ON DWG P2 AND DETAILS ON DWG P3
- 25 3/4" CW DROP TO NON-FREEZE WALL HYDRANT (COMPACT LENGTH), AT APPROX 24" AFF
- 26 HYDRAULIC "LULA" ELEVATOR IN SHAFT WITH 14" PIT RECESS. PROVIDE OIL DETECTION/ALERT SYSTEM; REFER TO SPECS - NOTE 32.
- 27 3/4" VALVED GAS TO BASE BID GFUH-2 (90 MBH). IF BAY 3 ALTERNATE IS ACCEPTED DELETE WORK ASSOCIATED WITH GFUH-2 AND ADD WORK ASSOCIATED WITH RTU-2.
- 28 1/2" GAS DROP TO GFUH-1, WITH SHUTOFF, DIRTLEG AND VENT LIMITING PRESSURE REGULATOR.
- 29 1/2" GAS DN THRU ROOF IN WEATHERTIGHT ROOF PENETRATION, AND 1/2" GAS UP ON PITCHED ROOF TO CROSS RATED STAIR AREA; DROP INTO 2ND FLR MECH'L CLOSET.
- 30 3/4" GAS TO RTU, WITH SHUTOFF AND LINE PRESSURE REGULATOR; TERMINATE REGULATOR VENT WITH OPENED DOWNTURNED ELBOW.
- 31 1" CONDENSATE FROM RTU (COLLECT HEAT EXCHANGER AND COOLING COIL CONDENSATES); PROVIDE TRAP WITH DEPTH AT LEAST THE MINIMUM RECOMMENDED BY RTU MFR; ROUTE TO OPEN OVER ROOF (PROVIDE SPLASHBLOCK).
- 32 DORLEN PRODUCTS OIL-ALERT LIQUID LEAK DETECTION SYSTEM MODEL OA-5, WITH (2) LIQUID DETECTORS (LD), PS-3 POWER SUPPLY, LOCAL AUDIBLE ALARM, AND RELAY CONTACTS FOR REMOTE ALARM; CONNECT TO BUILDING ALARM/SECURITY SYSTEM.
- 33 APPROX LOCATIONS OF PREVIOUSLY DEMOLISHED PLUMBING FIXTURES - FOR DEMOLITION COORDINATION
- 34 3/4" CONDENSATE FROM DEHUMIDIFIER DH-1; PROVIDE TRAP WITH DEPTH AT LEAST THE MINIMUM RECOMMENDED BY DH-1 MFR; ROUTE DOWN ON COLUMN AND THROUGH EXTERIOR WALL AT 24", PROVIDE AND DISCHARGE OVER CONCRETE SPLASHBLOCK.
- 35 EXISTING INTERIOR ROOF DRAIN LEADER IS ROUTED DOWN TO EXIT THRU WALL AT APPROX 12" AFF, AND LEFT OPENENDED ABOVE GRADE. VIE PIPE SIZE
- 36 REMOVE EXISTING ROOF DRAIN AND PROVIDE ENTIRELY NEW EMERGENCY/OVERFLOW ROOF DRAIN WITH OUTLET SIZED TO MATCH EXISTING INTERIOR ROOF DRAIN LEADER (ESTIMATED 4"). CONNECT ROOF DRAIN INTO EXISTING INTERIOR ROOF DRAIN LEADER; REMOVE ROOF DRAIN LEADER BACK TO 3 FT AFF; ROUTE THROUGH WALL AND PROVIDE DOWNSPOUT NOZZLE WITH STAINLESS STEEL BIRDSCREEN, AND EMERGENCY SIGNAGE ABOVE. PATCH DISUSED WALL PENETRATION TO CLOSELY MATCH EXISTING ADJACENT EXTERIOR WALL.
- 37 1/2" H&CW DROPS, 3" W WITH TRAP, 4" W TO SAN MAIN
- 38 1/2" CW, 1-1/2" V ABV CEILING; 1-1/2" W IN CHASE TO 4" SAN STACK (DF1-HC)
- 39 4" SAN DROP IN CHASE TO BELOW SLAB, WITH WCO AT 18" AFF
- 40 1/2" H&CW, 2" W UP (CLOTHES WASHER)
- 41 1/2" H&CW, 1-1/2" W UP (S1-HC AND DW\*)
- 42 1/2" H&CW, 1-1/2" W FROM BELOW; 1/2" H&CW TO SINK; 1/2" HW WITH SEPARATE SHUTOFF TO DW\*; 1-1/2" DRAIN/TALPIECE FOR EACH SINK COMPARTMENT, COLLECT TO SINGLE P-TRAP/CO; CONNECT DW\* WASTE TO COLLECTED SINK WASTE UPSTREAM OF TRAP; PROVIDE AAV DOWNSTREAM OF TRAP
- 43 1/2" H&CW FROM BELOW TO WALLBOX, 2" W FROM BELOW; PROVIDE 2" STANDPIPE WITH TOP CONNECTED INTO WASHER WALL BOX. PROVIDE TRAP AND 1-1/2" V RISE FOR WASTE STANDPIPE
- 44 PROVIDE CARY CO. # 57W70N 5 GAL. HDPE CONTAINER WITH VENT/CAP AND 2" TOP INLET WITH SCREW CAP, ON FLOOR IN CLOSET; PROVIDE 3/4" DRAIN WITH TRAP FROM KEF-1 HOUSING DRAIN CONN. TO CONTAINER INLET (REMOVE SCREW CAP.)
- 45 3/4" CD FROM 2ND FLR AHU-1, WITH TRAP (OF MINIMUM DEPTH RECOMMENDED BY AHU-1 MFR); ROUTE DOWN TO OPEN OVER 1ST FLOOR MSK, 6" ABOVE MSK FLOOD RIM.
- 46 (ROOF ALTERNATE) REMOVE EXISTING ROOF DRAIN AND PROVIDE ENTIRELY NEW PRIMARY ROOF DRAIN WITH OUTLET SIZED TO MATCH EXISTING INTERIOR ROOF DRAIN LEADER (ESTIMATED 4"). CONNECT ROOF DRAIN INTO EXISTING INTERIOR ROOF DRAIN LEADER.
- 47 (EXERCISE ROOM #2 112 ALTERNATE) 3/4" GAS TO RTU, WITH SHUTOFF AND LINE PRESSURE REGULATOR; TERMINATE REGULATOR VENT WITH OPENED DOWNTURNED ELBOW.
- 48 (EXERCISE ROOM #2 112 ALTERNATE) 1" CONDENSATE FROM RTU (COLLECT HEAT EXCHANGER AND COOLING COIL CONDENSATES); PROVIDE TRAP WITH DEPTH AT LEAST THE MINIMUM RECOMMENDED BY RTU MFR; ROUTE TO OPEN OVER ROOF (PROVIDE SPLASHBLOCK).

NOTE: ALL PLUMBING SYSTEMS IN ALTERNATE WORKSCOPE AREAS SHALL BE AS PER BASE BID (AS SHOWN ON DWGS P1, P2 AND P3) UNLESS SPECIFICALLY SHOWN ALTERED FROM BASE BID ON DWG P1A.

Project Title:  
**Renovations to:  
 Old Woodbridge Fire Station  
 4 Newton Road  
 Woodbridge, Connecticut 06525**

**SILVER / PETRUCELLI + ASSOCIATES**  
*Architects / Engineers / Interior Designers*

3190 Whitney Avenue, Hamden, CT 06518-2340  
 Tel. 203 230 9007 Fax. 203 230 8247  
 silverpetrucelli.com

| Revision | Description | Date    | Revised By: |
|----------|-------------|---------|-------------|
| 1        | APPENDUM #1 | 5.24.18 | MBQ         |
|          |             |         |             |
|          |             |         |             |
|          |             |         |             |

Drawing Title:  
**PLUMBING PART PLANS - ALTERNATES**

Date:  
**5.18.18**

Scale:  
**AS NOTED**

Drawn By:  
**MBQ**

Project Number:  
**11.147**

P1A

**GENERAL**

- THE INTENT OF THESE CONTRACT DOCUMENTS IS FOR THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. ALL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS, OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS, PROJECT MANUAL AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL AND ELECTRICAL INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID.
- ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO FORM A TOTAL DESIGN. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION MANAGER TO DETERMINE WHICH TRADE CONTRACTOR IS RESPONSIBLE FOR VARIOUS PORTIONS OF THE WORK.
- ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE SUPPORT/BRACING OF EQUIPMENT AND BUILDING SERVICES FOR SEISMIC RESTRAINT AS REQUIRED BY THE STATE OF CONNECTICUT BUILDING CODE.
- OBTAIN AND PAY FOR ALL RELATED PERMITS AND INSPECTIONS.
- ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION, ANY MODIFICATIONS TO THE EQUIPMENT REQUIRED FOR INSTALLATION ARE TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF FIXTURES, ETC. COLORS SHALL BE COORDINATED WITH THE ARCHITECT. CONTACT ARCHITECT FOR CLARIFICATION OF MOUNTING REQUIREMENTS IF INFORMATION IS NOT CONTAINED IN THE DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE APPLICABLE CODES IN THE ORDINANCES AND THE REGULATORY AGENCIES HAVING JURISDICTION.
- ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS, WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL, THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. THESE SHALL BE COORDINATED WITH THE ARCHITECT.
- WHEN CONFLICTS OCCUR BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR SHALL CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
- CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL EQUIPMENT FURNISHED BY OWNER OR OTHER TRADES, INCLUDING REQUIRED SERVICE CONNECTIONS, RECEPTACLES, ETC. BEFORE INSTALLATION.
- CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH FIRE STOPPING SEALANT WHERE REQUIRED. PENETRATIONS OF FIRE-RATED CONSTRUCTION SHALL USE LISTED COMPONENTS AND U.L.-APPROVED METHODS.
- LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE UP/DOWN STREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
- PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILING, WHERE REQUIRED, TO SERVICE VALVES, AND OTHER CONCEALED DEVICES.
- ALL EQUIPMENT, PIPING, FIXTURES, ETC. SHALL BE SUPPORTED AS DETAILLED, SPECIFIED AND/OR REQUIRED TO PROVIDE A SECURE AND VIBRATION FREE INSTALLATION.
- LOCATION AND SIZES OF ALL FLOOR, WALL AND ROOF PENETRATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- COORDINATE THE TERMINATIONS OF ALL EXHAUST PIPING, PLUMBING VENTS, ETC. TO MAINTAIN 25 FOOT MINIMUM HORIZONTAL SEPARATION FROM ALL FRESH AIR INTAKES AND OPERABLE WINDOWS AND DOORS. IF EXHAUST OR VENT TERMINATION MUST BE LOCATED WITHIN 25 HORIZONTAL FEET OF SUCH AN OPENING OR INTAKE, TERMINATION MUST BE LOCATED AT LEAST 2 FEET ABOVE TOP OF ALL OPENINGS/INTAKES WITHIN 25 HORIZONTAL FEET.

**PLUMBING GENERAL INTENT - DEMOLITION AND COORDINATION WITH EXISTING SYSTEMS**

- THIS PROJECT IS PRIMARILY A RENOVATION OF AN EXISTING FACILITY. IT IS GENERALLY THE INTENT OF THE PLUMBING DRAWINGS TO MAINTAIN EXISTING SITE UTILITIES AND SERVICES, AND DEMOLISH ALL EXISTING PLUMBING FIXTURES, EQUIPMENT AND ABOVE SLAB PIPING AND TO PROVIDE ALL NEW PLUMBING FIXTURES, EQUIPMENT AND PIPING WITHIN THE BUILDING.
- BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH THE PROJECT IS TO BE COMPLETED.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT ON HIS FAILURE TO BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS.
- IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY PIECE OF EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT INDICATED TO BE REMOVED SHALL BE REMOVED INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, DUCTS, CONDUITS, WIRES AND CONTROLS BACK TO THE POINT OF ORIGIN.
- NO EQUIPMENT, PIPING OR CONDUIT SHALL BE ABANDONED IN PLACE UNLESS SPECIFICALLY NOTED. NO DEADENDS ARE ALLOWED ON ACTIVE SANITARY AND WASTE PIPING; REMOVE EXISTING SAN/WASTE/VENT PIPING TO BELOW SLAB AND CAP. DISCONNECT EX. BLDG SAN EXIT FROM EX. SITE SANITARY AND CAP. REMOVE EX. BUILDING DOMESTIC CW/HW/HWR WATER COMPLETELY, BACK TO EX. WATER METER DISCHARGE; PROVIDE NEW SHUTOFF VALVE AT METER DISCHARGE.
- PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT AND MATERIALS IN COMPLIANCE WITH CODES AND REGULATIONS.
- PROVIDE TEMPORARY CONNECTIONS AND SYSTEM MODIFICATIONS AS REQUIRED FOR CONSTRUCTION.
- INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY. COORDINATE WITH GENERAL CONTRACTOR/CONSTRUCTION MANAGER FOR PHASING REQUIREMENTS.
- FIELD VERIFY FOR EXACT LOCATIONS AND QUANTITY OF ITEMS BEING REMOVED. COORDINATE WITH ARCHITECTURAL PLANS FOR SCOPE AREA OF DEMOLITION AND CONSTRUCTION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING, REPAIRING, CAPPING, ETC. RELATED TO DEMOLITION AND CONSTRUCTION.

**PLUMBING**

- IT IS NOT NECESSARILY THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE. ONLY BRANCH PIPING TO GROUPS OF FIXTURES MAY BE INDICATED. EACH AND EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, WASTE AND VENT PIPING SYSTEMS. FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE, REFER TO THE PLUMBING FIXTURE SCHEDULE.
- PIPING LAYOUTS AS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC; PROVIDE ADDITIONAL FITTINGS AND OFFSETS AS REQUIRED FOR COORDINATION WITH BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES.
- PROVIDE TRAP PRIMER FOR EACH NEW FLOOR DRAIN. CONNECT TRAP PRIMER TO NEAREST COLD WATER MAIN; PROVIDE ISOLATION VALVE AND EXTEND TO FLOOR DRAIN AS REQUIRED.
- PROVIDE CONDENSATE DRAINS FOR ALL COOLING COILS; PIPE BY GRAVITY TO INDIRECT WASTE OR IF GRAVITY DRAINAGE IS NOT POSSIBLE, AND NOT PROVIDED INTEGRAL TO UNIT GENERATING CONDENSATE, PROVIDE A CONDENSATE REMOVAL PUMP, WIRED TO LOCAL POWER CIRCUIT AND PIPED TO OUTSIDE (AND NOT POSING HAZARD TO PEDESTRIAN OR VEHICULAR TRAFFIC) OR VIA INDIRECT WASTE CONNECTION TO BLDG SANITARY PIPING DRAINAGE SYSTEM.
- COORDINATE MOUNTING HEIGHTS OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS.
- PROVIDE SHUT OFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES.
- ALL WATER PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE AND DRAIN VALVES AT THE BOTTOM OF ALL WATER SYSTEM RISERS AND LOW POINTS.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES AND IN LONG PIPING RUNS ABOVE FLOOR SLAB (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 50 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED.
- ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPE 6 INCHES AND SMALLER AND SHALL BE 6 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES.
- ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRED VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE.

**PLUMBING ABBREVIATIONS**

| PLUMBING ABBREVIATIONS<br>(NOT ALL SYMBOLS ARE USED) |                              |        |  |
|--|------------------------------|--------|--|
| AAV  | AIR ADMITTANCE VALVE         | LAV    | LAVATORY                                 |
| ABV  | ABOVE                        | LB.    | POUND                                    |
| AD   | ACCESS DOOR                  | L.F.   | LINEAL FEET                              |
| AF   | ABOVE FINISHED FLOOR         | LP     | LIQUID PROPANE                           |
| AFS  | ABOVE FINISHED (LOCAL) GRADE | LV     | LEAVING                                  |
| BLW  | BELOW                        | MAX    | MAXIMUM                                  |
| C  | CONDENSATE                   | MIN    | MINIMUM                                  |
| CLG  | CEILING                      | MH     | MTU PER HOUR (THOUSANDS)                 |
| CO   | CLEANOUT                     | NFHW   | NON-FREEZE WALL HYDRANT                  |
| CONN   | CONNECT, CONNECTION          | NIS    | NOT TO SCALE                             |
| C.P.   | CHROME PLATED                | OST    | OVERFLOW (EMERGENCY) STORM               |
| CIE  | CONNECT TO EXISTING          | PH     | PHASE                                    |
| CW   | COLD WATER                   | PRV    | PRESSURE REDUCING VALVE                  |
| CUST.  | CUSTOMER'S (JANITOR'S)       | RD     | ROOF DRAIN                               |
| DF   | DRINKING FOUNTAIN            | RPZ    | REDUCED PRESSURE ZONE BACKFLOW PREVENTER |
| EWC  | ELECTRIC WATER COOLER        | RTU    | ROOF TOP UNIT                            |
| EX, EXIST'G  | EXISTING                     | RWL    | VERTICAL RAINWATER CONDUCTOR             |
| EXH  | EXHAUST (GAS WATER HEATER)   | S, SAN | SANITARY WASTE                           |
| FO   | FLOOR CLEANOUT               | ST     | STORM                                    |
| FD   | FLOOR DRAIN                  | START. | STARTING                                 |
| FS   | FLOOR SINK                   | SWS    | SOLAR WATER SUPPLY                       |
| FT   | FEET                         | SWR    | SOLAR WATER RETURN                       |
| G  | GAS                          | TD     | TRENCH DRAIN                             |
| GPF  | GALLONS PER FLUSH            | TW     | THERMOSTATIC MIXING VALVE                |
| GPH  | GALLONS PER HOUR             | TP     | TRAP PRIMER                              |
| GPM  | GALLONS PER MINUTE           | TW     | TEPID WATER (85 DEG F)                   |
| GT   | GREASE TRAP                  | UW     | URNAL                                    |
| GW   | GREASE WASTE                 | VENT   | VENT                                     |
| HOBH   | HOT/COLD HOSE BIBB           | VTR    | VENT THRU ROOF                           |
| HD   | HEAD                         | W      | WASTE                                    |
| HP   | HORSEPOWER                   | WC     | WATER CLOSET                             |
| HW   | HOT WATER                    | WCO    | WALL CLEAN OUT                           |
| HWR  | HOT WATER RECIRCULATING      | WHA    | WATER HAMMER ARRESTOR                    |
| I.W.   | INDIRECT WASTE               | YCO    | YARD CLEANOUT                            |
| JAN.   | JANITOR'S (CUSTOMER'S)       |        |  |

**PLUMBING LEGEND**

| PLUMBING LEGEND<br>(NOT ALL SYMBOLS ARE USED)   |  |                                 |   |
|---|--|---------------------------------|---|
| ---X---   | EXIST'G PIPING/EQUIPMENT TO BE REMOVED     | --- ---                         | BALANCING VALVE                           |
| --- ---   | EXIST'G COLD WATER                         | --- --- ---                     | CHECK VALVE                               |
| --- --- ---   | EXIST'G HOT WATER (140°F)                  | --- --- --- ---                 | PRESSURE REDUCING VALVE                   |
| --- --- --- ---   | EXIST'G HOT WATER (TEMPERED TO 110°F)      | --- --- --- --- ---             | THERMOSTATIC MIXING VALVE                 |
| --- --- --- --- ---   | EXIST'G HOT WATER (TEMPERED TO 95°F)       | --- --- --- --- --- ---         | T & P RELIEF VALVE                        |
| --- --- --- --- --- ---   | EXIST'G SANITARY OR WASTE BELOW SLAB       | --- --- --- --- --- ---         | PRESSURE GAUGE                            |
| --- --- --- --- --- --- ---   | EXIST'G SANITARY OR WASTE ABOVE GRADE/SLAB | --- --- --- --- --- --- ---     | BACKFLOW PREVENTER                        |
| --- --- --- --- --- --- --- ---   | EXIST'G VENT                               | --- --- --- --- --- --- ---     | UNION                                     |
| --- --- --- --- --- --- --- --- ---   | COLD WATER                                 | --- --- --- --- --- --- ---     | STRAINER                                  |
| --- --- --- --- --- --- --- --- --- ---   | HOT WATER (TEMPERED TO 110°F)              | --- --- --- --- --- --- --- --- | BUTTERFLY VALVE                           |
| --- --- --- --- --- --- --- --- --- --- ---   | HOT WATER (TEMPERED TO 95°F)               | --- --- --- --- --- --- --- --- | WATER HAMMER ARRESTOR                     |
| --- --- --- --- --- --- --- --- --- --- --- ---   | SANITARY OR WASTE BELOW SLAB               | --- --- --- --- --- --- --- --- | THERMOMETER                               |
| --- --- --- --- --- --- --- --- --- --- --- --- ---   | SOIL OR WASTE ABOVE GRADE/SLAB             | --- --- --- --- --- --- --- --- | EXPOSED OR WALL CLEANOUT                  |
| --- --- --- --- --- --- --- --- --- --- --- --- --- ---                                     | VENT                                       | --- --- --- --- --- --- --- --- | FLOOR CLEANOUT                            |
| --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---                                 | CONDENSATE                                 | --- --- --- --- --- --- --- --- | ROOF DRAIN                                |
| --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---                             | TRAP & DRAIN                               | --- --- --- --- --- --- --- --- | WALL HYDRANT OR HOSE BIB                  |
| --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---                         | PIPE ELBOW UP                              | --- --- --- --- --- --- --- --- | MANUAL AIR VENT                           |
| --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---                     | PIPE ELBOW DOWN                            | --- --- --- --- --- --- --- --- | CIRCULATING PUMP                          |
| --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---                 | VALVE ON RISE OR DROP                      | --- --- --- --- --- --- --- --- | CONNECT TO EXISTING                       |
| ---             | SHUTOFF VALVE (GATE OR BALL TYPE)          | --- --- --- --- --- --- --- --- | TRAP PRIMER VALVE FOR SINGLE TRAP SERVICE |
| ---         | GATE VALVE                                 |                                 |   |
| ---     | BALL VALVE                                 |                                 |   |
| --- | ELECTRIC/ELECTRONIC (SOLENOID) VALVE       |                                 |   |

**DRAINAGE SPECIALTIES SCHEDULE**

| EQUIPMENT MARK                             | MANUFACTURER | MODEL NUMBER           | NOTES  |
|--|--------------|------------------------|--|
| FD1  | WADE (1)     | 1104STD-27-179-EF6     | FLOOR DRAIN, 8"Ø NICKEL BRONZE STRAINER (ADJUSTABLE), 4" BOTTOM OUTLET SIZE; WITH FLANGE, REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS, 1/2" PRIMER TAP, SEDIMENT BUCKET, VANDALPROOF SCREWS, NICKEL BRONZE 2.375" X 6" Ø OVAL FUNNEL, 4.25" HIGH. |
| NFWH                                       | WADE (1)     | 8600                   | ANTI-SIPHON, NON-FREEZE WALL HYDRANT, BRONZE INTERIOR AND CASING, 3/4" INTEGRAL BACKFLOW PREVENTER, BRONZE FACE  |
| WHA  | WADE (1)     | SHOKSTOP 'P' SERIES    | PISTON-TYPE MAINTENANCE-FREE WATER HAMMER ARRESTOR, STAINLESS STEEL; POI AND ASSE CONFORMANCE  |
| TP1  | PPP, INC.    | MINI-PRIME MP-500-115V | ELECTRONIC TRAP PRIMING ASSEMBLY WITH SOLENOID VALVE, 6 FT ELECTRICAL CORD, AND 1" PHYSICAL AIR GAP, 115 VOLTS/1 PHASE, 1/2" NPT INLET   |
| PRIMARY RD (ROOF ALTERNATE)                | ZURN (2)     | Z125-VP                | LOW SILHOUETTE (COATED CAST IRON) ROOF DRAIN WITH VANDALPROOF (COATED CAST IRON) DOME  |
| ORD (EMERGENCY/OVERFLOW ROOF DRAIN SYSTEM) | ZURN (2)     | Z125-E-VP              | LOW SILHOUETTE ROOF DRAIN WITH 2" HIGH STATIC EXTENSION, VANDALPROOF CAST IRON DOME  |
| DOWNSPOUT NOZZLE                           | ZURN (2)     | ZARB199-SS             | DOWNSPOUT NOZZLE, PLAIN BRONZE BODY, THREADED INLET, WITH STAINLESS STEEL SCREEN   |

(1) OR APPROVED EQUAL BY JAY R. SMITH; JOSAM; ZURN (2) OR APPROVED EQUAL BY JAY R. SMITH; JOSAM; WADE

**PLUMBING FIXTURE SCHEDULE**

| FIXTURE DESIGNATION | DESCRIPTION   | MANUFACTURER      | MODEL NUMBER  | NOTES   | SAN/WASTE | VENT   | COLD   | HOT       |
|---------------------|---|-------------------|---|---|-----------|--------|--------|-----------|
| WC1                 | FLOOR-MOUNT/FLOOR OUTLET PRESSURE-ASSISTED TANK TYPE WATER CLOSET     | AMERICAN STANDARD | CADET RIGHT-HEIGHT ELONGATED PRESSURE-ASSISTED TOILET 1.6 GPF #2467.016     | ADA/UFAS-COMPLIANT, WHITE VITREOUS CHINA, 1.6 GPF, FLOOR-MOUNT, ELONGATED PRESSURE-ASSISTED, CLOSE-COUPLED TANK TYPE TOILET WITH OLSONITE # 95 ELONGATED OPEN FRONT PLASTIC SEAT WITH CHECK HINGE, 12" ROUGH, 16-1/2" RM HEIGHT.  | 4"        | 2"     | 1/2"   | ---       |
| WC1-HC              | ADA FLOOR-MOUNT/FLOOR OUTLET PRESSURE-ASSISTED TANK TYPE WATER CLOSET | AMERICAN STANDARD | CADET RIGHT-HEIGHT ELONGATED PRESSURE-ASSISTED TOILET 1.6 GPF #2467.016     | ADA/UFAS-COMPLIANT, WHITE VITREOUS CHINA, 1.6 GPF, FLOOR-MOUNT, ELONGATED PRESSURE-ASSISTED, CLOSE-COUPLED TANK TYPE TOILET WITH OLSONITE # 95 ELONGATED OPEN FRONT PLASTIC SEAT WITH CHECK HINGE, 12" ROUGH, 16-1/2" RM HEIGHT.  | 4"        | 2"     | 1/2"   | ---       |
| WC2-HC              | ADA FLOOR-MOUNT/BACK OUTLET PRESSURE-ASSISTED TANK TYPE WATER CLOSET  | AMERICAN STANDARD | YORKVILLE RIGHT-HEIGHT ELONGATED PRESSURE-ASSISTED TOILET 1.6 GPF #2878.020 | ADA/UFAS-COMPLIANT, WHITE VITREOUS CHINA, 1.6 GPF, FLOOR-MOUNT, BACK OUTLET, ELONGATED, PRESSURE-ASSISTED, CLOSE-COUPLED TANK TYPE TOILET WITH OLSONITE # 95 ELONGATED OPEN FRONT PLASTIC SEAT WITH CHECK HINGE, 16-1/2" RM HEIGHT.   | 4"        | 2"     | 1/2"   | ---       |
| UR1-HC              | ADA WALL-MOUNT URINAL   | AMERICAN STANDARD | WASHBROOK Flowise 0.125 GPF #6590.503 URINAL SYSTEM                         | ADA/UFAS-COMPLIANT, WHITE VITREOUS CHINA, WASHOUT ACTION, 0.125 GPF, WALL MOUNT; WITH AMERICAN STANDARD #6045.013 0.125 GPF PISTON TYPE MANUAL FLUSH VALVE, AND MFR'S WALL HANGER. PROVIDE ADDITIONAL WALL BLOCKING AS REQUIRED FOR RIDD HANGER MOUNTING.   | 2"        | 1-1/2" | 3/4"   | ---       |
| LAV1                | WALL-MOUNT LAVATORY   | AMERICAN STANDARD | LUCERNE # 0355.012  | WALL-MOUNT, VITREOUS CHINA, CONCEALED ARMS; 20.5" X 18.25" O.A., FRONT OVERFLOW, SELF-DRAINING DECK AREA, BACK/SIDE SPLASH SHIELDS, FAUCET LEDGE, 4" CENTERS. PROVIDE (ALL CHROME-PLATED); BRASS TAILPIECE WITH BRASS TRAP/CLEANOUT, NEW BRASS ANGLE STOPS, COPPER SUPPLIES. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE ON HW SUPPLY. FAUCET: SYMMONS S-20-2-G SINGLE LEVER FAUCET WITH GRID STRAINER AND 0.5 GPM FLOW CONTROL. PROVIDE FLOOR-MOUNTED CONCEALED ARM SUPPORT BY WADE, JOSAM, JAY R. SMITH. PROVIDE TRUEBRO LAV-SHIELD ENCLOSURE TO COVER EXPOSED WATER/WASTE PIPING BELOW LAV; FOR LAV MOUNTING HEIGHTS LOWER THAN 34"FT, CUT TOP OF ENCLOSURE TO MAINTAIN/MATCH REQUIRED ADA CLEARANCES AT THAT MOUNTING HT.     | 1-1/2"    | 1-1/2" | 1/2"   | 1/2"      |
| LAV1-HC             | ADA WALL-MOUNT LAVATORY   | AMERICAN STANDARD | LUCERNE # 0355.012  | ADA WALL-MOUNT, VITREOUS CHINA, CONCEALED ARMS; 20.5" X 18.25" O.A., FRONT OVERFLOW, SELF-DRAINING DECK AREA, BACK/SIDE SPLASH SHIELDS, FAUCET LEDGE, 4" CENTERS. PROVIDE (ALL CHROME-PLATED); BRASS TAILPIECE WITH BRASS TRAP/CLEANOUT, NEW BRASS ANGLE STOPS, COPPER SUPPLIES. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE ON HW SUPPLY. FAUCET: SYMMONS S-20-2-G SINGLE LEVER FAUCET WITH GRID STRAINER AND 0.5 GPM FLOW CONTROL. PROVIDE FLOOR MOUNTED CONCEALED ARM SUPPORT BY WADE, JOSAM, JAY R. SMITH. PROVIDE TRUEBRO LAV-SHIELD ENCLOSURE TO COVER EXPOSED WATER/WASTE PIPING BELOW LAV; FOR LAV MOUNTING HEIGHTS LOWER THAN 34"FT, CUT TOP OF ENCLOSURE TO MAINTAIN/MATCH REQUIRED ADA CLEARANCES AT THAT MOUNTING HT. | 1-1/2"    | 1-1/2" | 1/2"   | 1/2"      |
| S1-HC               | ADA COUNTER MOUNT DOUBLE COMPARTMENT SINK                             | ELKAY             | LRAD3319  | ADA-COMPLIANT, COUNTER MOUNT 18 GA. TYPE 304 STAINLESS STEEL SINK, 33" X 19.5" OVERALL, EACH COMPARTMENT: 14" X 14" X 5.0" DEEP. FAUCET HOLE PROVISIONS: (4) ON 4" CENTERS. PROVIDE C.P. METAL TAILPIECE/TRAP&CLEANOUT, C.P. METAL ANGLE STOPS AND SUPPLIES. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE ON HW SUPPLY. PROVIDE TRUEBRO BASIN GUARD ENCLOSURE ACROSS ENTIRE WIDTH OF UNDER-SINK OPENING BETWEEN BASE CABINETS. FAUCET: ELKAY # LKE-4101 SINGLE LEVER WITH HOSE SPRAY. DRAIN: ELKAY # LK-35 STRAINER DRAIN. NOTE: # LK-35L DRAIN WITH 90 DEGREE ELBOW MAY BE USED IN LIEU OF # LK-35  | 1-1/2"    | 1-1/2" | 1/2"   | 1/2"      |
| MSK                 | MOP SERVICE BASIN   | FIAT              | # MSB-2424  | MOLDED STONE MOP SERVICE BASIN, 24"x24"x10", WITH MFR'S VANDALPROOF DRAIN, 3" ODC DRAIN CONN., 832 AA HOSE AND END BRACKET, 830 AA SERVICE FAUCET (INTEGRAL STOPS, VACUUM BREAKER, PAL HOOK, HOSE THREAD, 8" CENTERS); 888 OC MOP BRACKET; E-88-AA STAINLESS STEEL BUMPER GUARD. PROVIDE 1.5 GPM FLOW CONTROL FITTING ON FAUCET.  | ---       | 3"     | 1-1/2" | 1/2" 1/2" |
| DF1-HC              | ADA DRINKING FOUNTAIN   | ELKAY             | # ECDPFW314C  | ADA NO-LEAD STAINLESS STEEL DRINKING FOUNTAIN WITH STAINLESS STEEL WALL PLATE, FLEXIBLE ANTI-MICROBIAL BUBBLER, FRONT PUSHBUTTON. PROVIDE WITH MFR'S FILTER ON INLET, INTEGRAL P-TRAP, BOTTOM COVER PLATE.  | 1-1/2"    | 1-1/2" | ---    | 1/2"      |
| DW*                 | UNDERCOUNTER DISHWASHER   | REFER TO ARCH'L   | REFER TO ARCH'L   | 1/2"HW FROM ADJACENT SINK SERVICES WITH INDIVIDUAL SHUTOFF VALVE; 3/4" HOSE DRAIN TO SINK WASTE VIA AIR GAP FITTING AS REQUIRED; CONNECT UPSTREAM OF TRAP; DO NOT OBSTRUCT ADA CLEARANCES BELOW SINK. DISHWASHER DISCHARGE HOSE, SINK WASTE TAILPIECE, TRAP AND WASTE PIPING SHALL BE PRODUCT MANUFACTURER-APPROVED FOR THE DW'S MAXIMUM DISCHARGE TEMPERATURE (DO NOT INSTALL PVC FOR MAX. TEMP. EXCEEDING 140 DEG F.)   | ---       | ---    | ---    | 1/2"      |
| W*                  | CLOTHES WASHER  | REFER TO ARCH'L   | REFER TO ARCH'L   | PROVIDE WASHER WALL BOX: IPS CORP/GUY GRAY MODEL WMOB, WHITE POWDER COATED 20 GA. COLD-ROLLED STEEL WATER/WASTE LAUNDRY BOX WITH SINGLE LEVER SHUTOFF FOR HW/CW SUPPLIES, INTEGRAL WATER HAMMER ARRESTERS, AND 2" DRAIN CONN. PROVIDE HW, CW, 2" WASTE STANDPIPE TO WALL BOX; PROVIDE STANDPIPE TRAP AND VENT.  | 2"        | 1-1/2" | 1/2"   | 1/2"      |

ALL FIXTURES SHALL HAVE FIXTURE STOPS. ALL EQUIPMENT SHALL HAVE ISOLATION BALL VALVES. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR TOILET ROOM FIXTURE MOUNTING HEIGHTS.

**GAS-FIRED DOMESTIC WATER HEATER SCHEDULE**

| EQUIPMENT NUMBER                        | MANUFACTURER | MODEL NUMBER  | NOTES  |
|---|--------------|---------------|--|
| QWH1, QWH2                              | RHEEM (1)    | ROTH-CM95DVLN | COMMERCIAL, FULLY MODULATING, ON-DEMAND, CONDENSING NATURAL GAS-FIRED TANKLESS MANIFOLD-READY WATER HEATER, U.L. LISTED; ENERGY STAR QUALIFIED, NSF STANDARD 5-CERTIFIED; DIRECT VENT, ELECTRONIC IGNITER COIL, STEEL JACKET WITH BAKED POWDER COAT FINISH, FACTORY-INSTALLED POWER CORD, GAS AND WATER SERVICE SHUTOFF VALVES, AND TEMPERATURE REMOTE. TEMPERATURE REMOTE SHALL PROVIDE DIAGNOSTIC INFORMATION, FAULT HISTORY, AND HEATER SET TEMPERATURE WITH MINIMUM SETTING OF 85°F AND MAXIMUM SETTING OF 185°F. ON HW DISCHARGE, REPLACE FACTORY-INSTALLED PRESSURE RELIEF VALVE WITH COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE PER CT CODE, AND ALSO PROVIDE DRAIN VALVE. PROVIDE MANIFOLDED CENTROTHERM PPS VENT AND INTAKE PIPING SYSTEMS TO A SINGLE CONCENTRIC ROOF TERMINATION, ALL SIZED PER MANUFACTURER'S INSTRUCTIONS. BASED ON TWO CONNECTED HEATERS, EQUIVALENT LENGTH OF PIPE AND NUMBER/TYPE OF FITTINGS. PROVIDE CONDENSATE TRAP ON AIR INTAKE, INSTALLED HORIZONTALLY, WITH BOTTOM DRAIN CONNECTION PIPED TO NEAREST FLOOR DRAIN. PROVIDE MANUFACTURER'S INTEGRATED CONDENSATE NEUTRALIZER, PIPED TO OPEN OVER LOCAL FD. PROVIDE FACTORY-INSTALLED MANIFOLD CONTROL MODULE AND CONTROL CABLE. THE MANIFOLD HEATER CONTROLS SHALL MODULATE THE TWO-HEATER SYSTEM FOR THE MOST EFFICIENT PERFORMANCE, AND ALTERNATE THE INITIAL HEATER FOR BALANCED DUTY/CYCLE OPERATION. HEATERS SHALL HAVE MINIMUM 90% THERMAL EFFICIENCY, MEET THE ENERGY EFFICIENCY REQUIREMENTS OF THE US DEPT OF ENERGY AND ASHRAE 90.1-2007, AND COMPLY WITH ULTRA-LOW NOX EMISSIONS OF 14 mg/1 OR 20 ppm. PERFORMANCE (EACH HEATER): MAX/MIN. INPUT: 11 MBH/199.9 MBH NATURAL GAS; MIN ACTIVATION FLOW RATE OF 0.4 GPM, MAX FLOW RATE 9.6 GPM; RATED 3.75 GPM AT 100°F RISE. INSTALL HEATERS AND VENTING IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. EXCEPT DO NOT USE PVC OR CPVC FOR VENT/INTAKE PIPING. HEATERS SHALL BE WALL-MOUNTED; PROVIDE ADDITIONAL WALL BRACING AS REQUIRED. CONTRACTOR SHALL HAVE THE ENTIRE HEATER INSTALLATION INSPECTED BY THE STATE BOILER INSPECTOR. SIGNED CERTIFICATES SHALL BE FORWARDED TO THE OWNER WITH COPIES TO THE ENGINEER. PROVIDE FACTORY START-UP AND 3 HOURS OF OPERATION/CONTROL TRAINING TO OWNER'S STAFF. SET CONTROLLER FOR 120°F. MANUFACTURER'S WARRANTIES: 5 YEAR HEAT EXCHANGER/5 YEAR PARTS/1 YEAR LABOR (AT MINIMUM) FOR PROJECT'S COMMERCIAL APPLICATION. |
| (1) OR APPROVED EQUAL BY TAKAGI; RINNAI |              |               |  |

**DOMESTIC WATER HEATING SYSTEM ACCESSORY SCHEDULE**

| EQUIPMENT NUMBER                             | MANUFACTURER | MODEL NUMBER | NOTES   |
|--|--------------|--------------|---|
| ET1  | AMTROL       | ST-5-C-DD    | ASME-RATED 150 PSI THERMAL EXPANSION TANK; 2.0 GALLONS TOTAL VOLUME, 0.9 GALLONS MAX. ACCEPTANCE; 3/4" NPT CONNECTION   |
| INDIVIDUAL TMS AT LAVS AND KITCHENETTE SINKS | ACORN (1)    | ST70         | ASSE 1070-CERTIFIED AT 0.25 GPM, LEAD-FREE POINT-OF-USE THERMOSTATIC WATER TEMPERATURE LIMITING DEVICE, WITH INTEGRAL CHECKS AND SCREENS, ALLEN WRENCH/LOCKNUT FOR FIELD ADJUSTMENT OF TEMPERATURE; ADJUST FOR 110 DEG MAXIMUM DELIVERY TO FIXTURE. |
| (1) OR APPROVED EQUAL BY POWERS, LEONARD.    |              |              |   |

**PLUMBING PUMP SCHEDULE**

| EQUIPMENT NUMBER               | MANUFACTURER       | MODEL NUMBER | NOTES   |
|--------------------------------|--------------------|--------------|---|
| HWRP1                          | BELL & GOSSETT (1) | NBF-22       | BRONZE DOMESTIC HOT WATER RECIRCULATING PUMP; 15 FT SHUTOFF HEAD; RATED 2.5 GPM AT 12 FT HEAD; 115 VOLTS/1 PH, 1/25 HP; 3/4" NPT FLANGE. PUMP SHALL OPERATE VIA ADJUSTAT CONTROLLED THROUGH 7-DAY TIMECLOCK, CAPABLE OF 6 ON/OFF OPERATIONS EACH DAY; INTERMATIC #T2005, SPOT, 120VAC, 3 WATTS, 20 AMP RESISTIVE, CONTROLLING UP TO 1/2 HP MOTOR AT 120V. LOCATE THE TIME CLOCK ON WALL NEAR HWRP1 IN MECHANICAL ROOM, COORDINATING WITH ALL OTHER INSTALLATIONS. |
| (1) OR APPROVED EQUAL BY TACO. |                    |              |   |

Project Title:

Renovations to:  
Old Woodbridge Fire Station  
4 Newton Road  
Woodbridge, Connecticut 06525



SILVER / PETRUCCELLI + ASSOCIATES  
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Revision:

| Revision | Description | Date    | Revised By: |
|----------|-------------|---------|-------------|
| ▲        | ADDENDUM #1 | 5.24.18 | MBQ         |
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Drawing Title:

PLUMBING LEGENDS,  
SCHEDULES AND NOTES

Date: 5.18.18