

City of Madison Fleet Services Roof Replacement

City of Madison Contract # 7027

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City of Madison

Facilities & Sustainability Management 210 Martin Luther King Jr. Blvd Room 115



Designed Prepared For:

City of Madison Fleet Services

Design & Project Engineer

Paul Stauffer (608) 266-4366

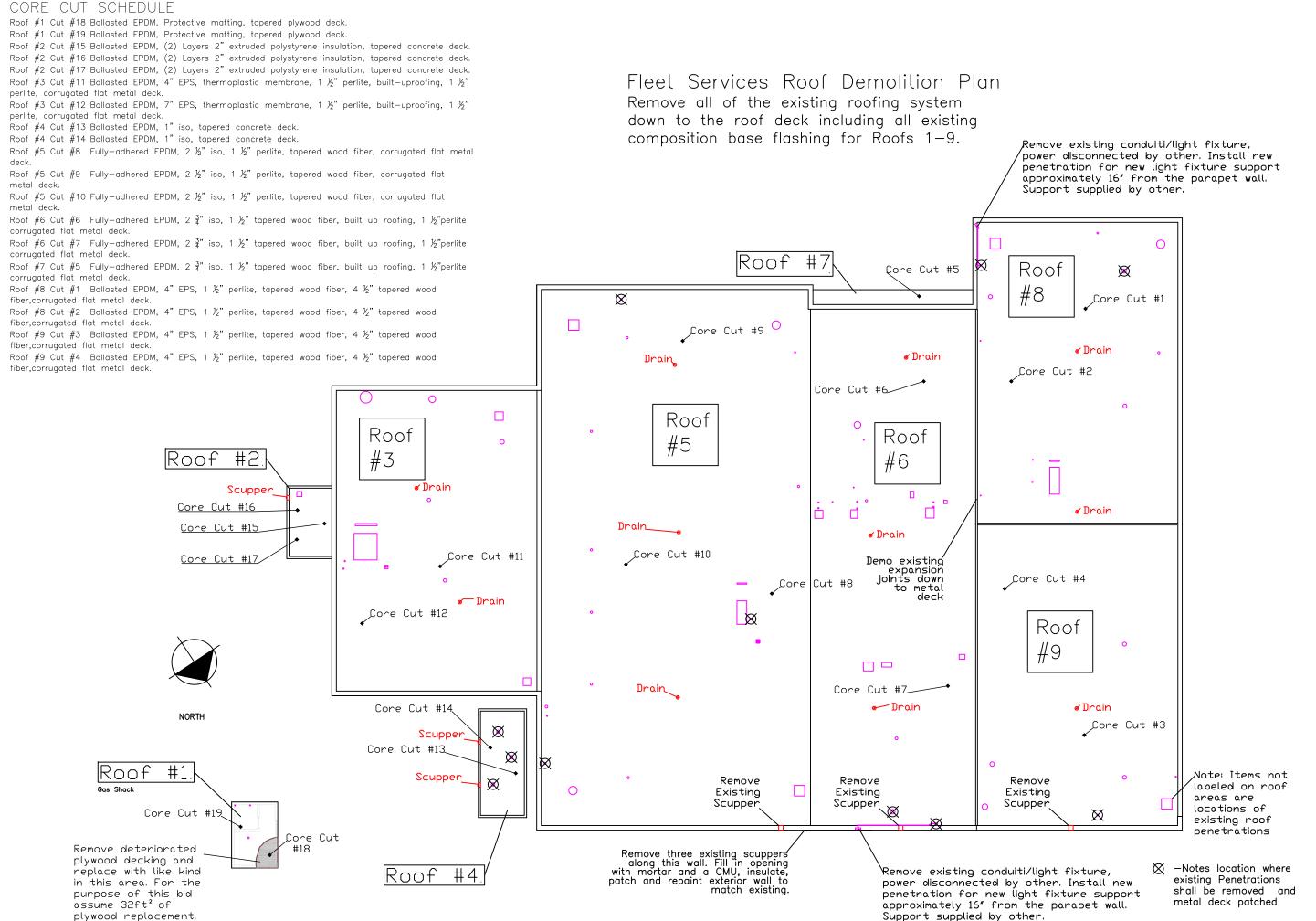
Replacement Roof

53W1569

Services Routh First Street

Sheet Number:

TS-1.0



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Replacement

Roof

53W1569 Project: Services Routh First Street 702

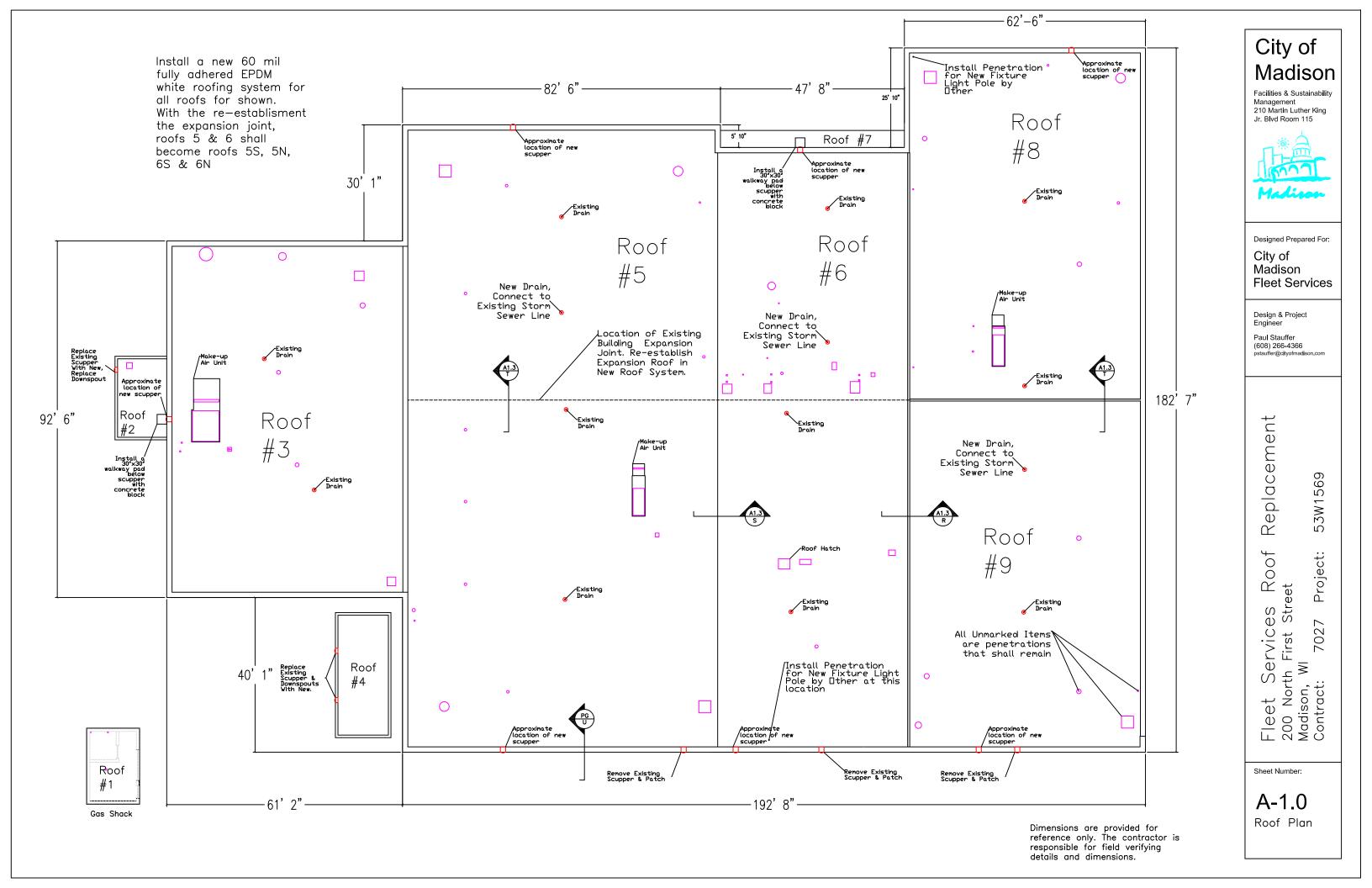
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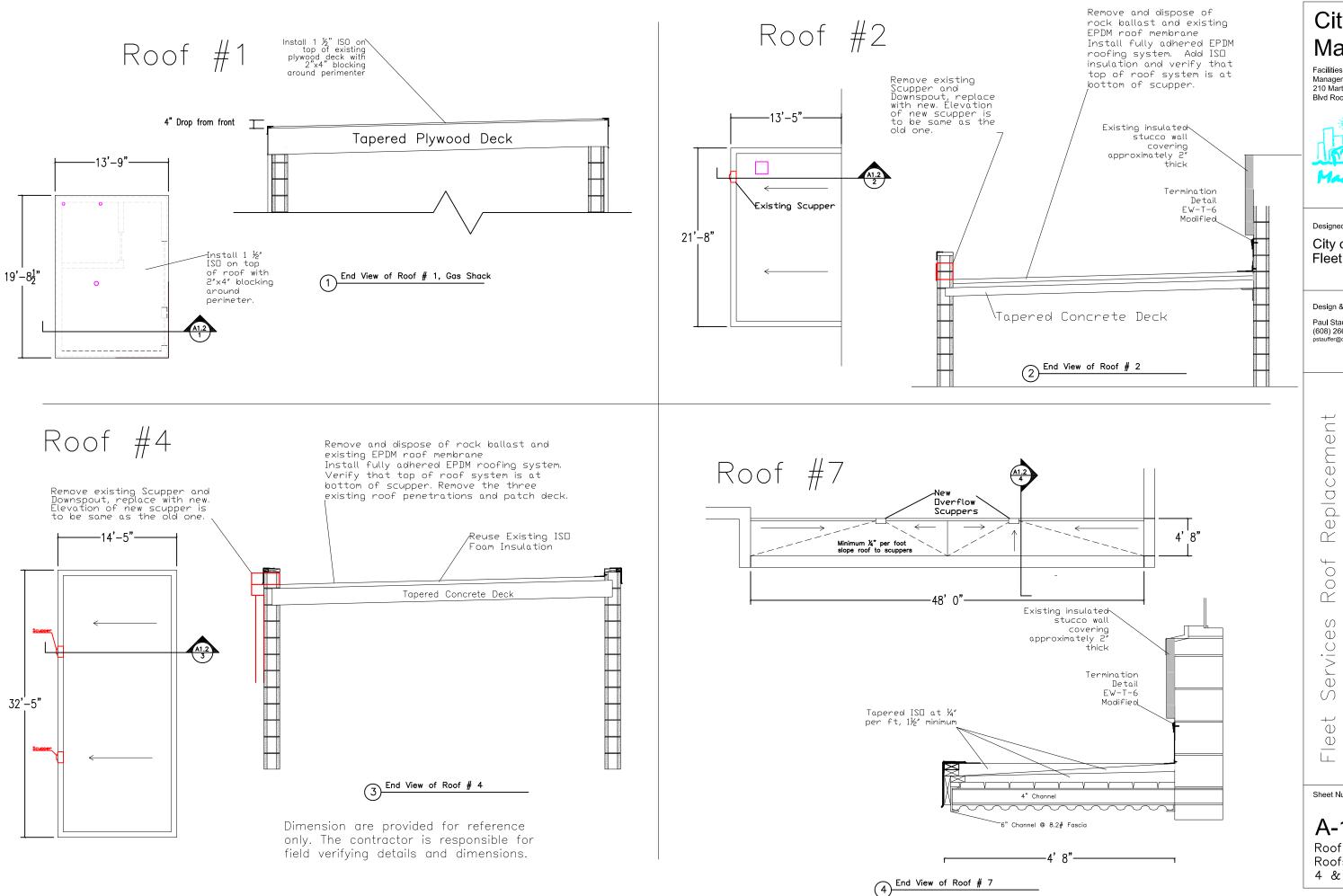
North F son, WI

Fleet S 200 North Madison, Contract:

D-1.0 Roof Existing

Conditions & Demolition Plan





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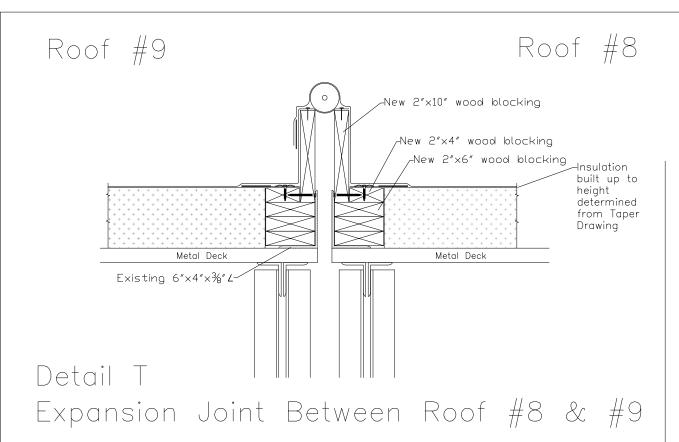
(608) 266-4366 pstauffer@cltyofmadlson.com

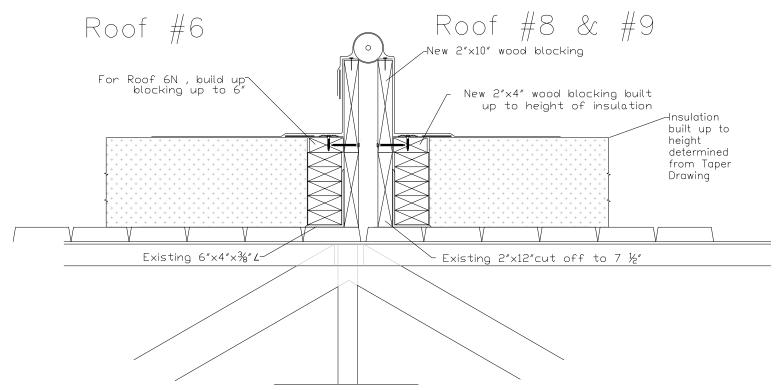
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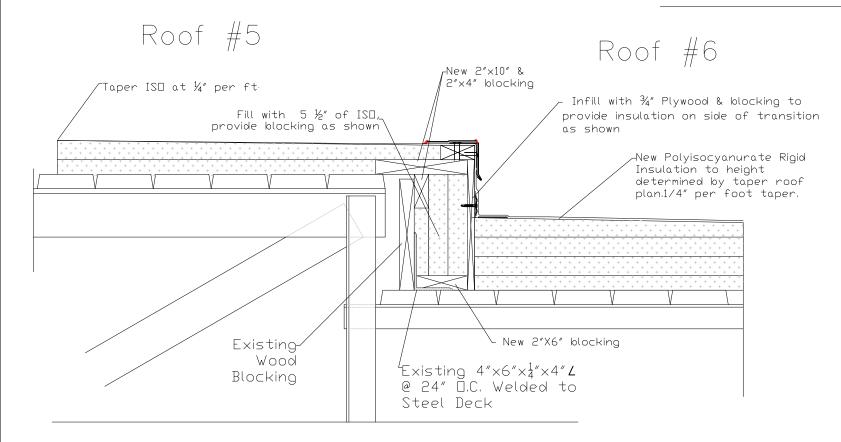
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A-1.1 Roof Plan, Roofs 1, 2, 4 & 7



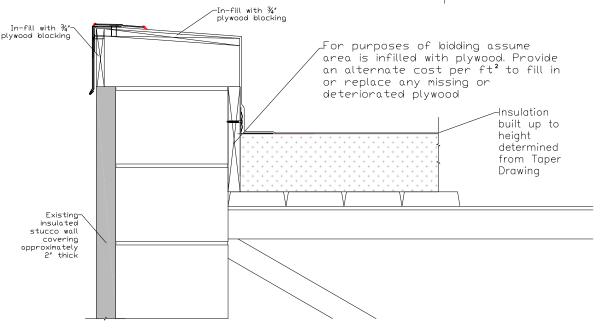


Detail R- Expansion Joint Between Roof #6 & Roofs #8 & #9



Detail S- Transition Between Roof #5 & #6





Detail U- Parapet Wall Roof #5

For purposes of bidding provide blocking as shown on drawings. Additional blocking shall be provide as unit price alternate. Existing blocking may be reused after inspection & approval from the Project Manger.

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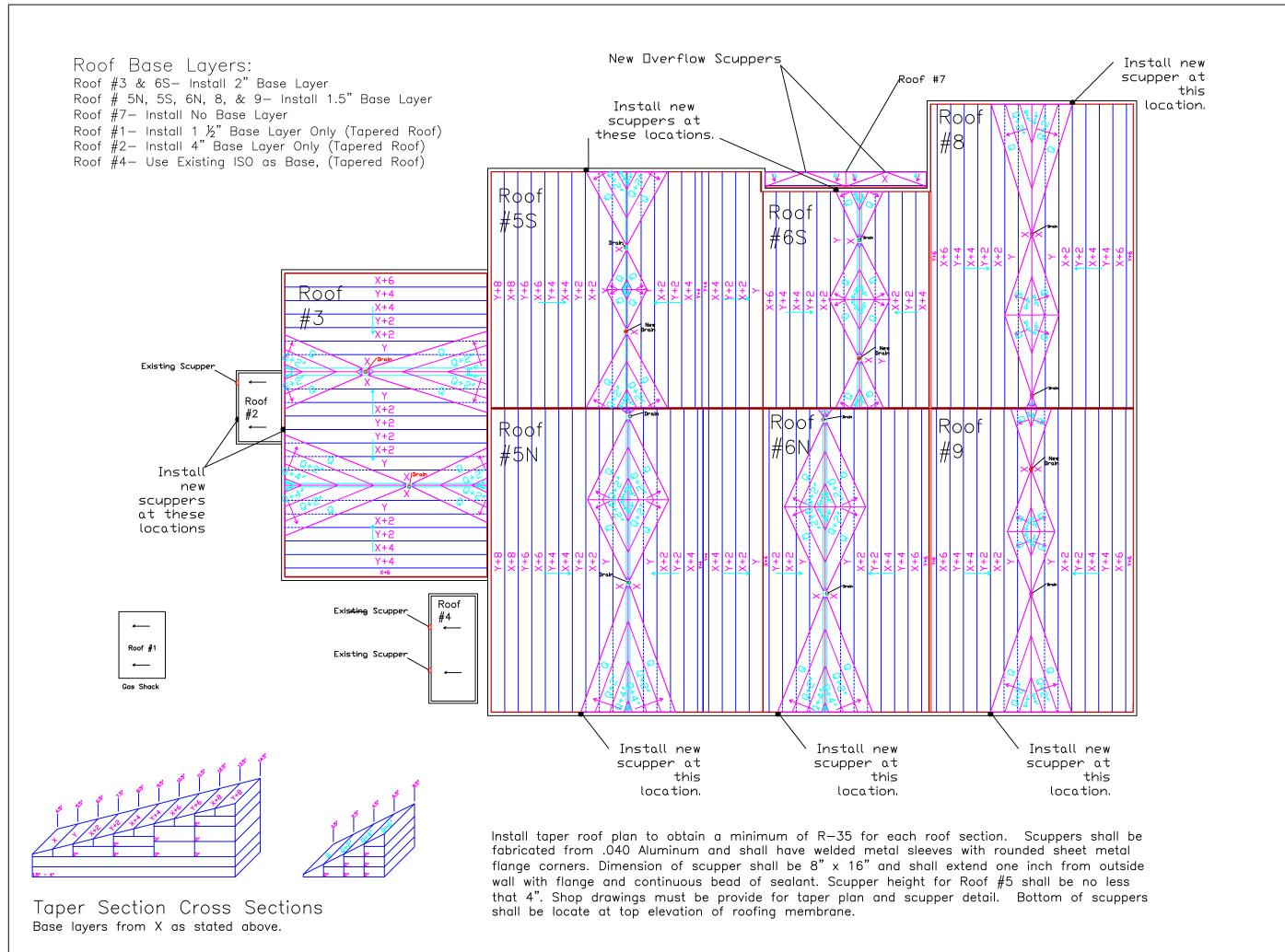
Design & Project Engineer

Paul Stauffer (608) 266-4366 pstauffer@cltyofmadlson.com

Fleet Services Roof Replacement 200 North First Street Madison, WI Contract: 7027 Project: 53W1569

Sheet Number:

A-1.2 Roof Details



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Replacement

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Project:

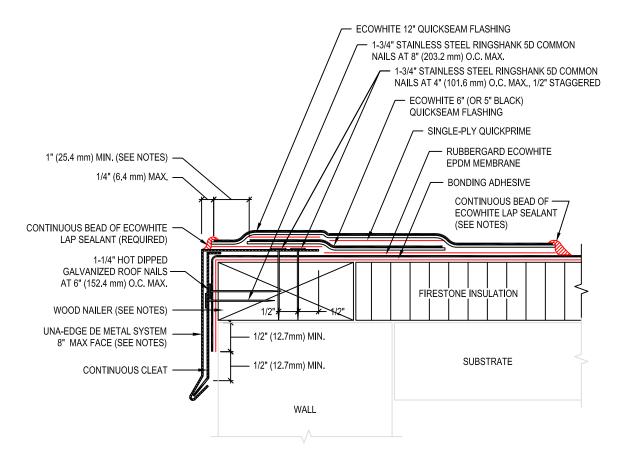
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Fleet Services Ro 200 North First Street Madison, Wl Contract: 7027 Proje

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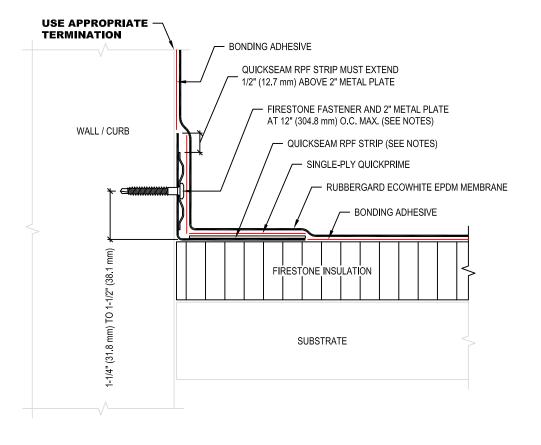
A-1.3

Taper Roof Plan, New Scupper Locations



NOTES:

- 1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
- 2. 12" ECOWHITE QUICKSEAM FLASHING EXTEND TO WITHIN 1/4" (6.4 mm) OF THE METAL EDGE.
- 3. INSTALL METAL WORK TO FIRESTONE INSTALLATION
- 4. ECOWHITE LAP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF ECOWHITE QUICKSEAM FLASHING WHEN ROOF SLOPE IS 1" (25.4 mm) PER FOOT OR GREATER, REFER TO EW-LS-9 FOR SEAM EDGE TREATMENT.
- 5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
- 6. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.



- 1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
- 2. REFER TO EW-BT-14 & 15 FOR QUICKSEAM RPF STRIP LAYOUT AT CORNERS.

Base Tie In Detail EW-RE-14A

Roof Edge Detail EW-RE-14A

Note: These details are provided for one manufacturer only and are intended for reference. The contractor shall provide submittals based on the roofing manufacturer specifications that will provide the stated warranty

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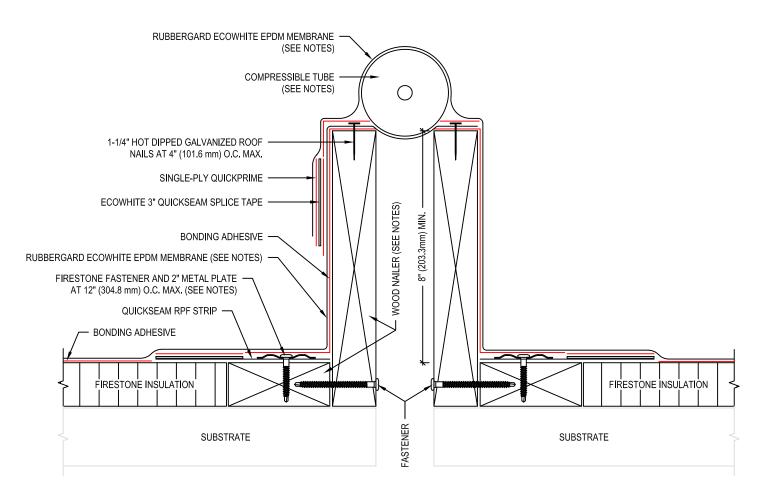
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Fleet Services Roof 200 North First Street Madison, WI Contract: 7027 Project:

Sheet Number:

A-1.4 Roof Details



- 1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
- 2. RUBBERGARD ECOWHITE EPDM MEMBRANE SPOT ATTACHED ALONG THE TOP OF EXPANSION JOINT TUBE WITH BONDING ADHESIVE.
- 3. COMPRESSIBLE TUBE (SUPPLIED BY OTHERS) DIAMETER MUST EXCEED THE DECK OPENING BY 50% MIN. OR DESIGNED MOVEMENT (WHICHEVER
- 4. FIELD MEMBRANE FORMED INTO RETAINER TO SUPPORT FOAM ROD.

- 5. BATTEN STRIP MAY BE USED IN LIEU OF 2" METAL PLATES, REFER TO "EW-BT" DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS, AND OPTIONS.
- 6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
- 7. REFER TO EW-LS-10 FOR ADDITIONAL LAP SPLICE REQUIREMENTS.

— EIFS OR OTHER WALL CLAD SYSTEM CONTINUOUS BEAD OF AP SEALANT FIRESTONE TERMINATION BAR APPROPRIATE FIRESTONE FASTENER 12" (304.8 mm) O.C. MAX. WALL / CURB CONTINUOUS BEAD OF FIRESTONE WATERBLOCK (MASONRY / CONCRETE METAL COUNTERFLASHING BY OTHERS WITH RETAINER CLIP **SUBSTRATE** 3" (76.2 mm) MIN. FACE (SEE NOTES) APPROPRIATE FASTENER RUBBERGARD ECOWHITE EPDM MEMBRANE OR ECOWHITE QUICKSEAM CURB FLASHING BONDING ADHESIVE **USE APPROPRIATE BASE TIE-IN**

- 1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
- 2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
- 3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN, ALUMINUM FORMED WITH HEMMED LOWER EDGE.

WALL SYSTEMS MUST BE WATERPROOFED AND **MAINTAINED IN ORDER** FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

Expansion Joint Detail EW-E-9

Base Tie-In Detail EW-T-6, Modified

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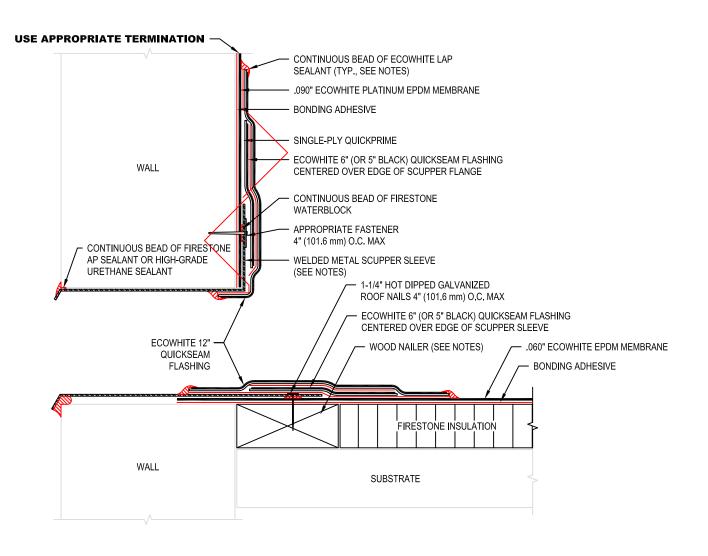
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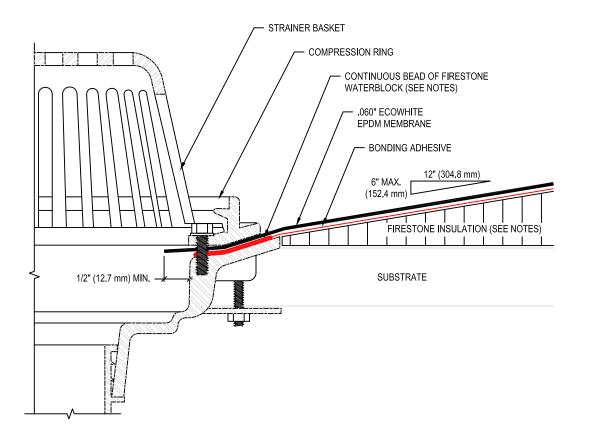
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A-1.5 Roof Details



- 1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
- 2. SCUPPER MUST BE WELDED METAL SLEEVE. ROUND ALL SHEET METAL FLANGE CORNERS.
- 3. APPLY ECOWHITE LAP SEALANT AROUND ENTIRE PERIMETER OF QUICKSEAM FLASHINGS, REFER TO P-EW-LS-4 FOR SEAM EDGE TREATMENT.
- 4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
- 5. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.
- 6. SEE P-EW-S-1a & b FOR DETAILED INSTALLATION

Thru-Wall Scupper Detail P-EW-S-1 Welded Sleeve



- 1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT
- 2. HOLE IN MEMBRANE SHOULD EXTEND A MINIMUM OF 1/2" (12.7 mm) BEYOND CLAMPING RING AND SHOULD NOT BE SMALLER THAN THE DIAMETER OF THE LEADER PIPE.
- 3. INSULATION ADJACENT TO DRAIN TO BE APPROPRIATE FIRESTONE INSULATION WITH APPROPRIATE BONDING
- 4. FIRESTONE WATERBLOCK MIN, OF 1/2 OF 10 OZ (295 ml) TUBE PER 4" DRAIN. USE ADDITIONAL WATERBLOCK FOR LARGER DRAINS.
- 5. IN REROOF APPLICATIONS:
 - REMOVE EXISTING FLASHINGS DOWN TO METAL BOWL
 - REPAIR OR REPLACE BROKEN DRAIN COMPONENTS
 - DRILL AND TAP BROKEN DRAIN BOLTS AND REPLACE IF NECESSARY.

Roof Drain Detail P-EW-D-1

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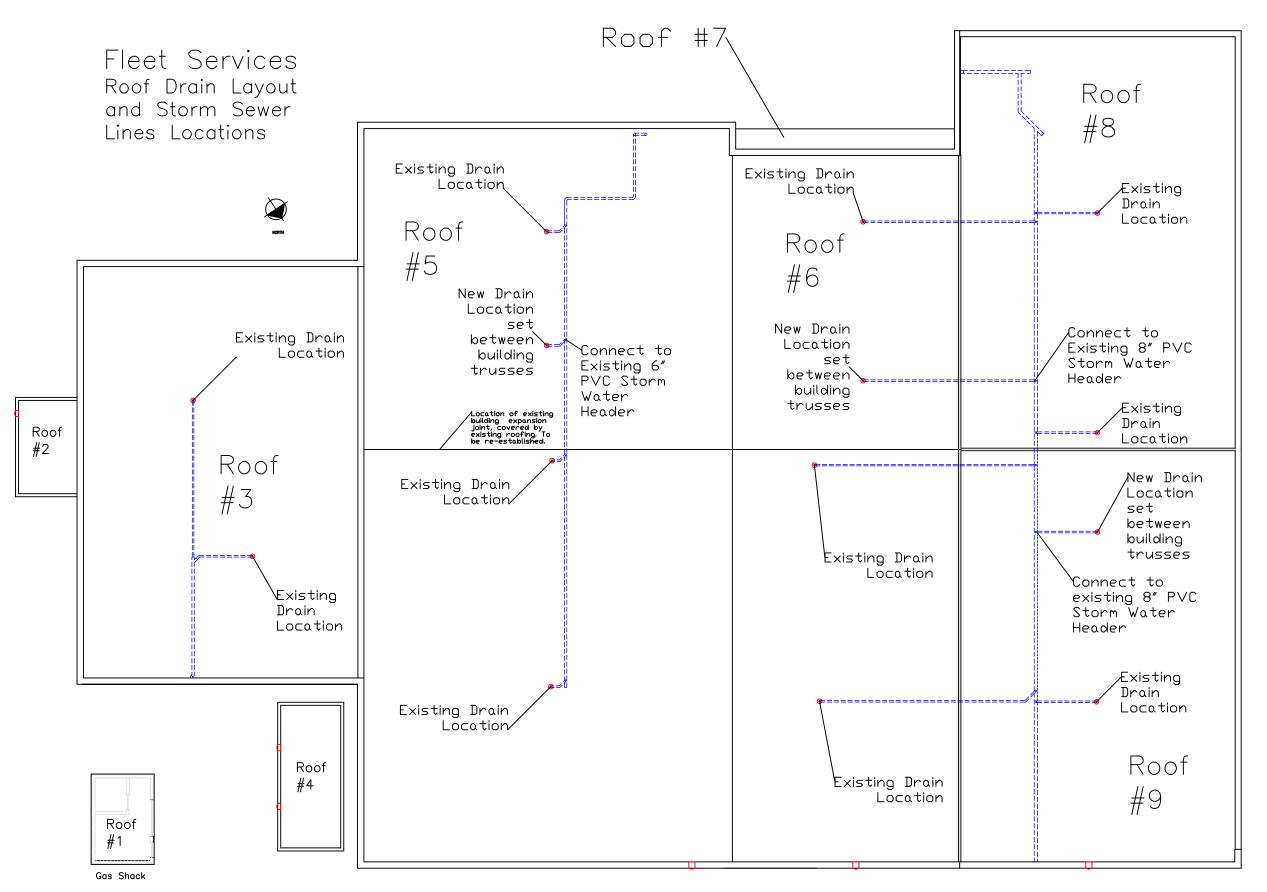
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A-1.6

Roof Details



Install three new roof drains at locations indicated. New drain lines shall be PVC, matching existing lines in schedule, type and insulation. Pitch of drain linse shall be 1/4" per ft. Connect to existing storm water lines inside of building. Locate drains between trusses with exact locations to be determined by final taper insulation roof plan.

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Replacement 53W1569

Fleet Services Roof 200 North First Street Madison, Wl Contract: 7027 Project:

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P-1.0

Roof Drain & Storm Sewer Lines Locations