

Partial Roof Replacement For: Fairfield Public Schools Timothy Dwight Elementary School

1600 Redding Road
Fairfield, Connecticut



DRAWING LIST:

- CS - COVER SHEET
- A1 - Overall Roof Plan
- A2 - Roof Details



SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers

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State Project # TMP-051-GTLZ

Date, 4/27/2015

ROOF AREAS	CODE INFORMATION	ROOFS 'A', 'B', 'C', 'D', 'E', 'F', 'G'
ROOF 'A' 3,521 SF. ROOF 'G' 2,621 SF. ROOF 'B' 497 SF. ROOF 'H' 2,347 SF. ROOF 'C' 6,486 SF. ROOF 'I' 11,854 SF. ROOF 'D' 5,686 SF. ROOF 'K' 2,655 SF. ROOF 'E' 2,216 SF. ROOF 'L' 939 SF. ROOF 'F' 411 SF.	USE GROUP: E CONSTRUCTION CLASS: 5B BASIC WIND SPEED: 110 MPH SURFACE ROUGHNESS EXPOSURE: B IMPORTANCE FACTOR: 1.15 FACTORY MUTUAL ENGINEERING & RESEARCH CORPORATION (FM) ROOF ASSEMBLY CLASSIFICATION OF NON-COMBUSTIBLE CONSTRUCTION WIND UPLIFT REQUIREMENT OF H50 FOR FIELD, H90 FOR PERIMETER AND H120 FOR CORNERS, IN ACCORDANCE WITH FMV PROPERTY LOSS PREVENTION DATA SHEETS 1-28.	'H', 'J', 'K' OUTSIDE AIR 0.17 MOD. BIT. 0.33 COVER BOARD 2.20 AVE. 4" POLYISO. INSUL. 28.4 METAL DECK 1.23 INSIDE AIR 0.61 R TOTAL: 30.94
ENERGY CONSERVATION IECC CODE REQUIREMENT R-VALUE TOTAL CONNECTICUT ZONE 5A CBCS REQUIREMENT: R24 + U .042 OR LESS		

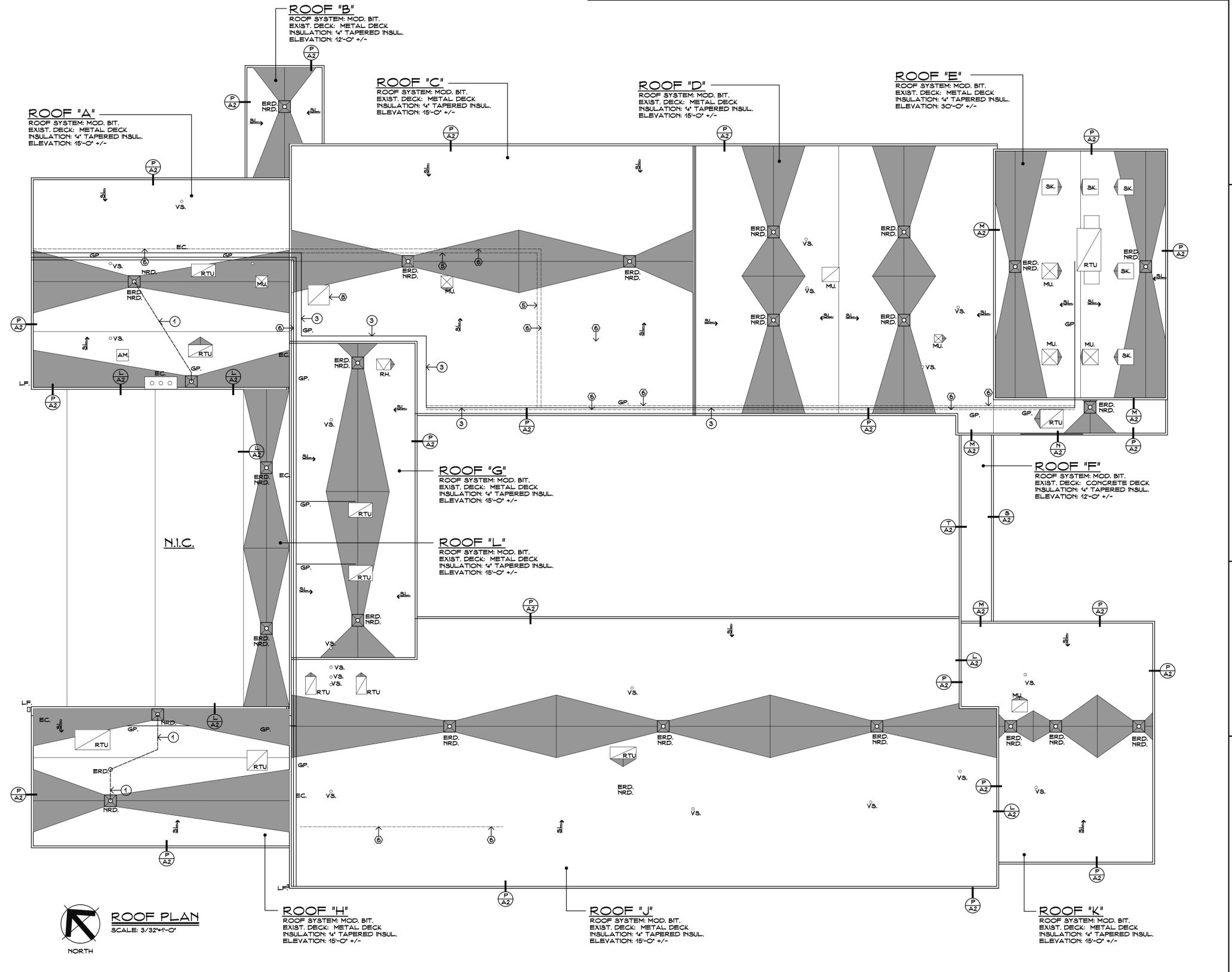
SYMBOL LEGEND

	- PLAN, SECTION, DETAIL OR ELEVATION NUMBER - SHEET NUMBER.
	- EXISTING OUTLINE OF BUILDING.
	- INDICATES SLOPE DIRECTION OF TAPERED INSULATION AT 1/2" PER FT. MIN.
	- TAPERED INSULATION CRICKET SLOPED @ 1/2" PER FOOT.
	- V.I.F. - CONTRACTOR TO VERIFY DIMENSION IN FIELD.
	- H.P. POINT - INDICATES HIGH POINT OF INSULATION.
	- E.R.D. - EXISTING ROOF DRAIN TO BE REMOVED. -SEE DEMOLITION NOTES.
	- N.R.D. - ROOF DRAIN & SUMP TO BE INSTALLED. -SEE DETAIL- A/A2
	- S.C. - EMERGENCY OVERFLOW SCUPPER. -SEE DETAIL- G/A2
	- V.S. - EXIST VENT STACK. -SEE DETAIL- B/A2
	- RTU - EXIST MECH FAN UNIT. -SEE DETAIL- D/A2
	- M.U. - EXIST ROOF TOP UNIT. - SEE DETAIL F/A2
	- S.K. - NEW SKYLIGHT. -SEE DETAIL- G/A2
	- WALKWAY PADS. -SEE CONSTRUCTION NOTE # 2
	- E.C. - EXISTING CHIMNEY. -SEE DETAIL- L/A2
	- E.J. - EXPANSION JOINT. -SEE DETAIL- J & M/A2
	- G.P. - EXIST GAS PIPING TO REMAIN. -SEE DETAIL-K/A2
	- E.C. - EXISTING ELECTRICAL CONDUIT TO REMAIN. -SEE DETAIL-K/A2
	- L.F. - NEW EXTERIOR LIGHT FIXTURE. -SEE CONSTRUCTION NOTE # 5
	- A.M. - EXIST ABANDONED MECH UNIT CURB. -SEE DEMO NOTE # 8
	- R.H. - EXIST ROOF HATCH. -SEE DETAIL- X/A2
	- E.W. - EXIST WINDOW. -SEE DETAIL- U/A2
	- E.L. - EXIST LOUVER. -SEE DETAIL- V/A2

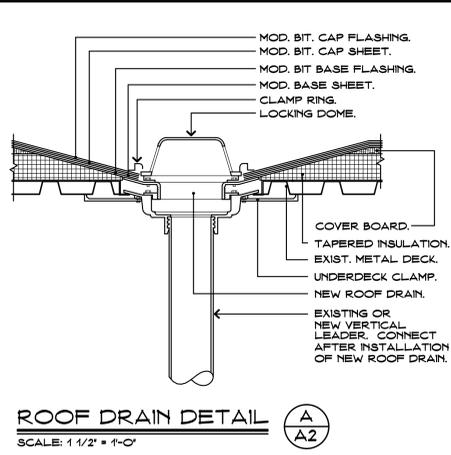
- ### GENERAL NOTES
- ALL ROOFS TO RECEIVE 1/2" PER FOOT TAPERED RIGID INSULATION MINIMUM UNLESS OTHERWISE NOTED.
 - FIELD VERIFY ALL DIMENSIONS & PERFORM TEST CUTS AT EACH ROOF PRIOR TO THE BID.
 - ALL MATERIALS ARE NEW UNLESS OTHERWISE NOTED 'EXISTING'.
 - ALL WOOD BLOCKING, PLYWOOD & NAILERS TO BE PRESSURE TREATED. (P.T.)
 - ALL WOOD BLOCKING INDICATED IN DETAILS ARE TO BE ANCHORED TO THE EXISTING STRUCTURE.
 - ALL MEMBRANE FLASHING INDICATED IS TO EXTEND A MINIMUM OF 8" (VERTICAL OR HORIZONTAL)
 - CONTRACTOR IS TO SURVEY THE EXISTING ROOF DECKS W/A LEVEL (AFTER DEMOLITION) TO VERIFY THE SLOPES INDICATED ON PLAN ARE ACCURATE. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY ADDITIONAL ROOFING OPERATIONS.
 - CONTRACTOR IS TO INSPECT THE UNDERSIDE OF ALL ROOF DECKS PRIOR TO ROOFING OPERATIONS TO INSURE THAT NO INTERIOR MATERIALS, EQUIPMENT, FINISHES OR OBJECTS WILL BE PERCED OR DAMAGED.
 - CONTRACTOR ASSUMES ALL RESPONSIBILITY DURING PROJECT & WILL REPLACE ANY & ALL DAMAGED EQUIPMENT W/NO ADDITIONAL COST TO OWNER.
 - SITE AREAS DISTURBED SHALL BE CLEANED & RE-LEVELLED. W/LAWN AREAS MAGNETICALLY RAKED TO REMOVE ANY METAL DEBRIS & RE-SEEDED AS REQUIRED TO MATCH ADJACENT CONDITIONS.
 - CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR CLEAN UP OF ROOFING MATERIALS & DEBRIS THAT PENETRATES THE INTERIOR ENVELOPE OF THE BUILDING W/NO ADDITIONAL COST TO THE OWNER.
 - SNAKE/CLEAN OUT ALL EXISTING VERTICAL & HORIZONTAL LEADERS OUT TO NEAREST MANHOLE OUTSIDE OF BUILDING.
 - ALL CRICKETS ARE TO BE SLOPED @ A MINIMUM OF 1" PER FOOT & COORDINATE CRICKETS AROUND EXIST. HYAC UNITS AS REQUIRED TO AVOID PONDING.
 - CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL & RE-INSTALLATION OF ALL HYAC UNITS INCLUDING ANY ELECTRICAL OR MECHANICAL CONNECTIONS. THIS MAY INCLUDE THE EXTENSION OF EXISTING ELECTRICAL & DUCTWORK SYSTEMS TO ACCOMMODATE NEW MECHANICAL UNIT CURBING & NEW ROOFING SYSTEM.
 - SNAKE/CLEAN OUT ALL EXISTING VENT STACK BEFORE THE INSTALLATION OF METAL SLEEVE.
 - ALL DRAIN PIPING IS INSULATED ABOVE THE CEILINGS. THE EXACT ROUTE WILL BE DETERMINED IN THE FIELD. MAKE MINOR ADJUSTMENT IN THE ROUTE AT NO ADDITIONAL COST TO OWNER.
 - NEW INSULATION TO BE A MINIMUM 1 1/2" AT ALL EXISTING & NEW ROOF DRAINS.
 - ALL ANTENNAS, CONDUITS & ANY OTHER OBJECTS TO REMAIN AFFECTED BY SCOPE OF WORK, TO BE REMOVED & REINSTALLED.

- ### DEMOLITION NOTES
- REMOVE ALL INDICATED EXISTING ROOFING INSULATION & EXISTING ROOFING MEMBRANE.
 - REMOVE ALL INDICATED EXISTING WOOD BLOCKING.
 - REMOVE ALL INDICATED EXISTING METAL FLASHING.
 - REMOVE INDICATED ROOF DRAINS & SUMP.
 - REMOVE INDICATED SECTION OF EXISTING GAS PIPING. SEE CONSTRUCTION NOTE # 3
 - REMOVE ALL ABANDONED ELECTRICAL CONDUIT(S)
 - REMOVE EXIST ABANDONED MECH UNIT CURB DOWN TO EXISTING DECKING. -SEE CONSTRUCTION NOTE # 4
 - REMOVE ABANDONED MECH UNIT & ASSOCIATED CURB.
 - REMOVE ANY HAZARDOUS MATERIAL CONTAINING PIPE WRAP/ DRAIN BOWL WRAP LOCATED @ EXISTING DRAIN LOCATIONS. -SEE SPECIFICATION FOR ADDITIONAL INFO.

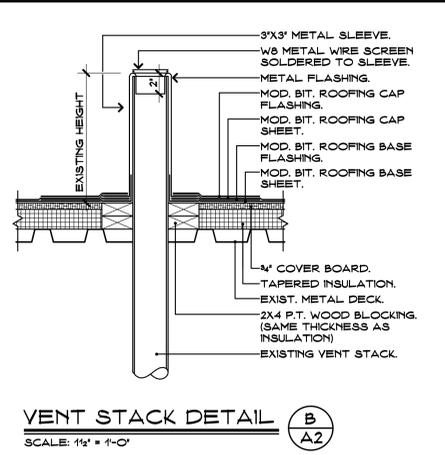
- ### CONSTRUCTION NOTES
- HORIZONTAL ROOF LEADER (MATCH DIAMETER OF EXISTING) ABOVE CEILING SLOPED @ 1/4" PER FT MIN. THE VERTICAL LEADERS INTO EXISTING PIPING AS REQUIRED. SEAL ALL PENETRATIONS THROUGH WALL W/FIRE PUTTY AS REQUIRED BY CODE. PATCH & REPAIR ALL AREAS DAMAGED BY INSTALLATION OF NEW PIPING.
 - WALKWAY PADS TO BE INSTALLED. SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION.
 - INSTALL NEW CAST IRON GAS PIPING ALONG NEW ROUTE. TEMP. SHUT OFF GAS MAIN PRIOR TO DEMOLITION. RECONNECT W/ NEW FITTINGS & INSTALL NEW & EXISTING GAS PIPING ON NEW CONDUIT CURBS. -SEE DETAIL- & PROJECT MANUAL FOR ADDITIONAL INFORMATION.
 - INFILL AREA OF ROOF DECK W/ NEW METAL DECKING WHERE EXISTING ABANDONED MECH UNIT CURBS HAVE BEEN REMOVED. -SEE DETAIL- W/A2 & PROJECT MANUAL FOR ADDITIONAL INFORMATION.
 - PROVIDE NEW LIGHT FIXTURE. MATCH EXISTING HEIGHT @ PERIMETER LOCATIONS. -SEE PROJECT MANUAL FOR ADDITIONAL INFO.



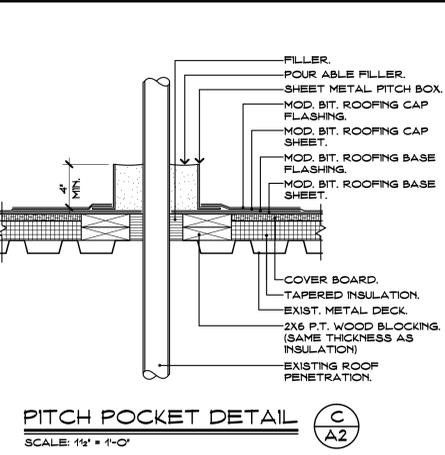
ROOF PLAN
SCALE: 3/32"=1'-0"
NORTH



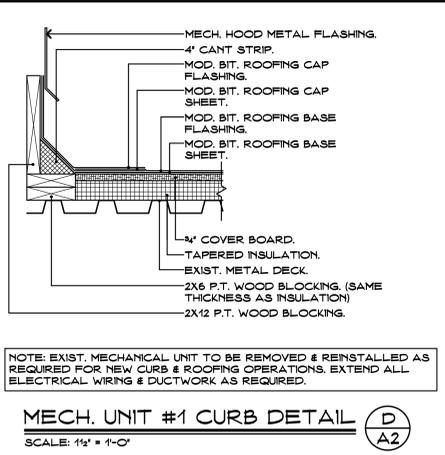
ROOF DRAIN DETAIL (A)
SCALE: 1 1/2" = 1'-0"



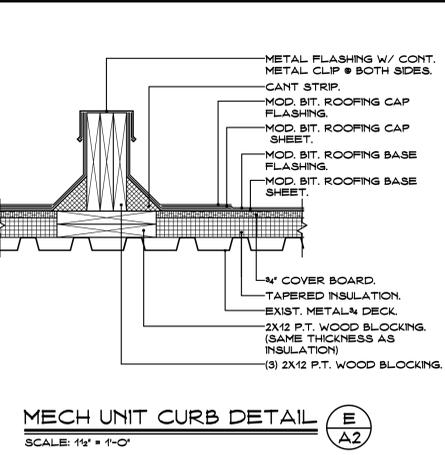
VENT STACK DETAIL (B)
SCALE: 1 1/2" = 1'-0"



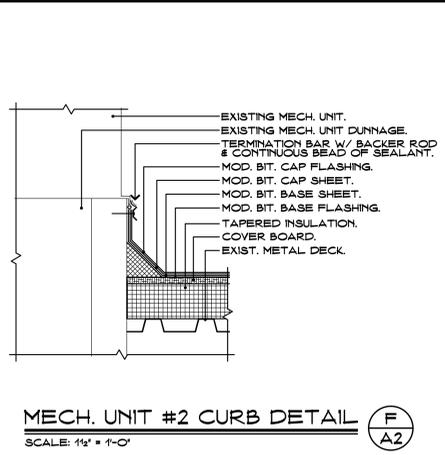
PITCH POCKET DETAIL (C)
SCALE: 1 1/2" = 1'-0"



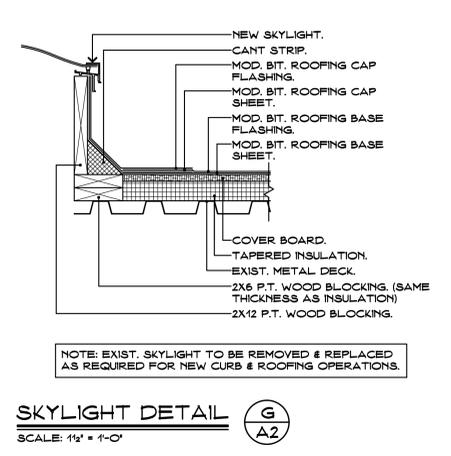
MECH. UNIT #1 CURB DETAIL (D)
SCALE: 1 1/2" = 1'-0"



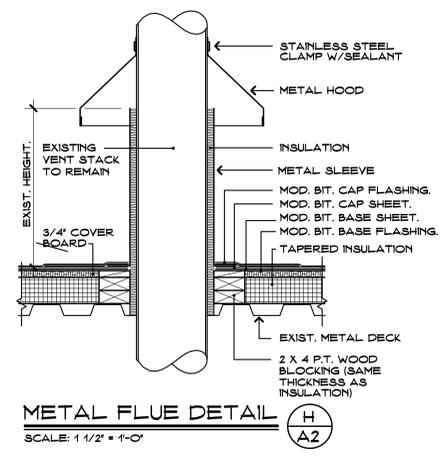
MECH UNIT CURB DETAIL (E)
SCALE: 1 1/2" = 1'-0"



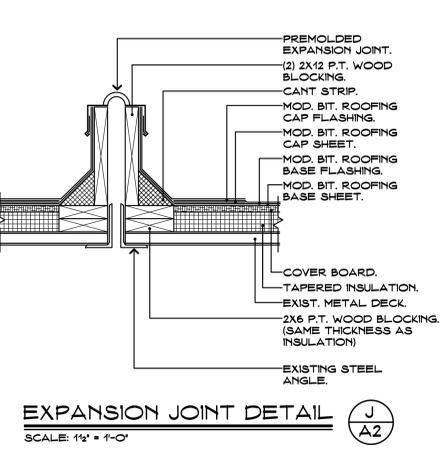
MECH. UNIT #2 CURB DETAIL (F)
SCALE: 1 1/2" = 1'-0"



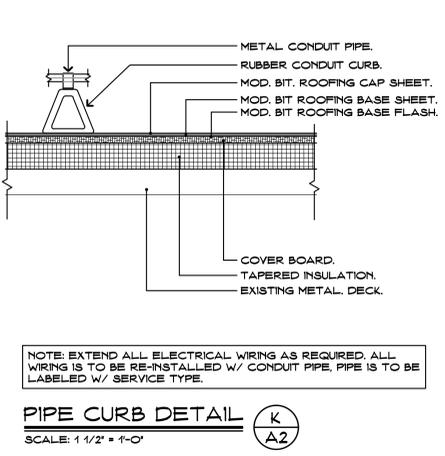
SKYLIGHT DETAIL (G)
SCALE: 1 1/2" = 1'-0"



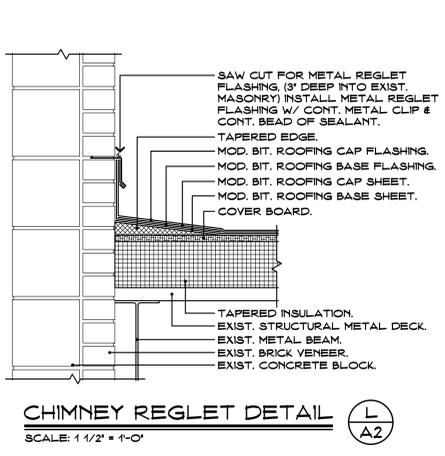
METAL FLUE DETAIL (H)
SCALE: 1 1/2" = 1'-0"



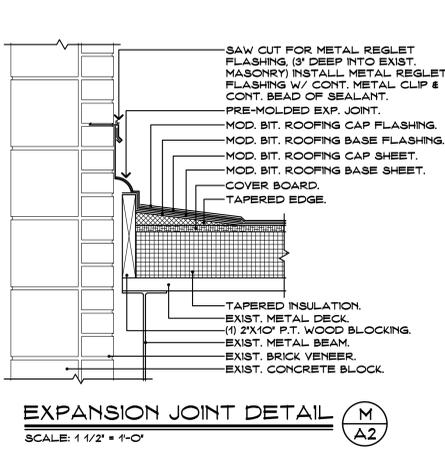
EXPANSION JOINT DETAIL (J)
SCALE: 1 1/2" = 1'-0"



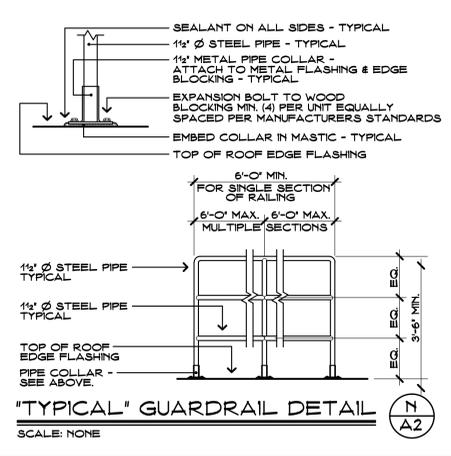
PIPE CURB DETAIL (K)
SCALE: 1 1/2" = 1'-0"



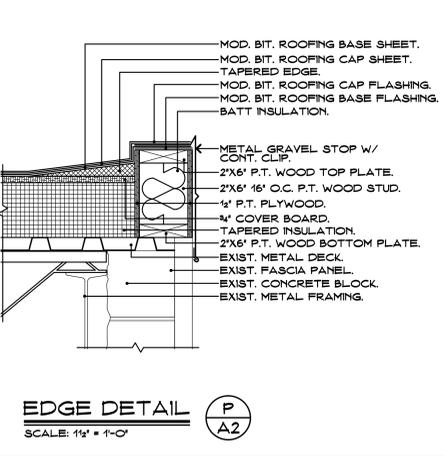
CHIMNEY REGLET DETAIL (L)
SCALE: 1 1/2" = 1'-0"



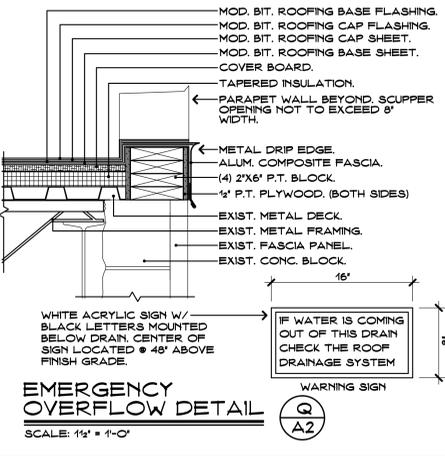
EXPANSION JOINT DETAIL (M)
SCALE: 1 1/2" = 1'-0"



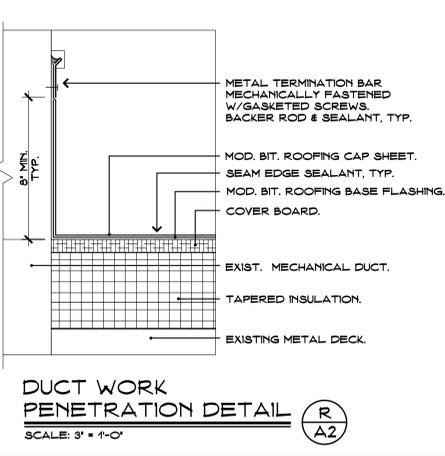
"TYPICAL" GUARDRAIL DETAIL (N)
SCALE: NONE



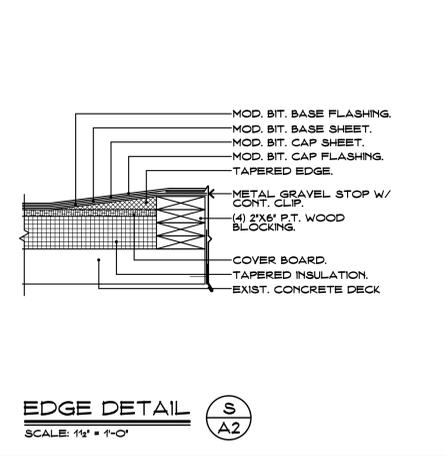
EDGE DETAIL (P)
SCALE: 1 1/2" = 1'-0"



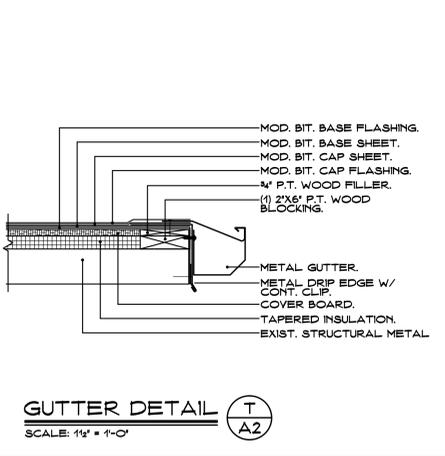
EMERGENCY OVERFLOW DETAIL (Q)
SCALE: 1 1/2" = 1'-0"



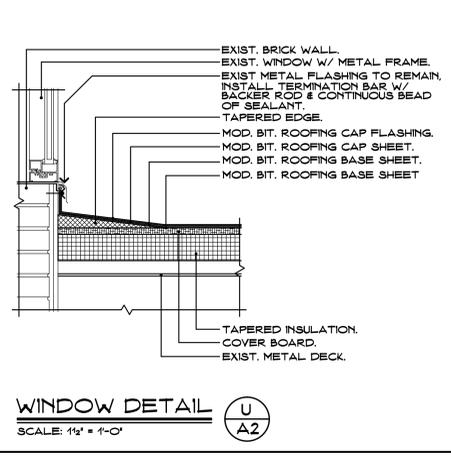
DUCT WORK PENETRATION DETAIL (R)
SCALE: 3" = 1'-0"



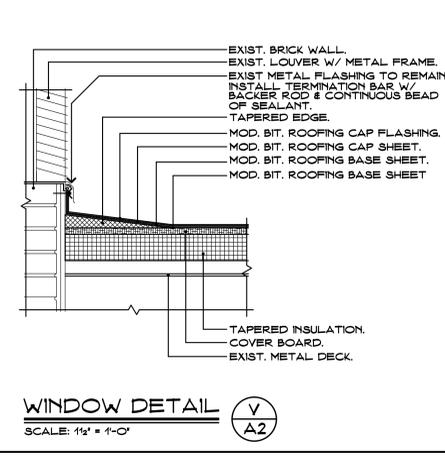
EDGE DETAIL (S)
SCALE: 1 1/2" = 1'-0"



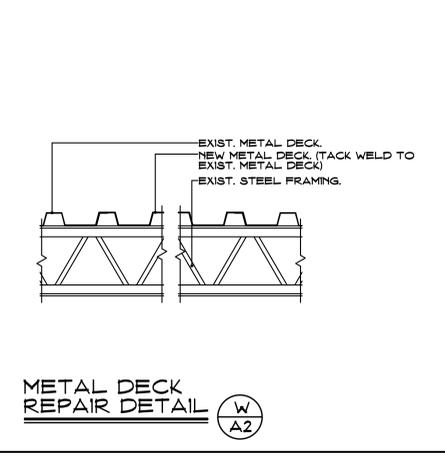
GUTTER DETAIL (T)
SCALE: 1 1/2" = 1'-0"



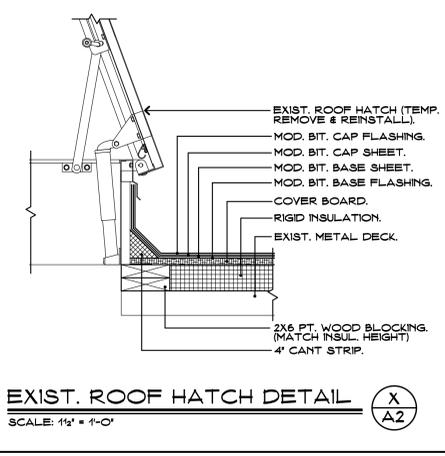
WINDOW DETAIL (U)
SCALE: 1 1/2" = 1'-0"



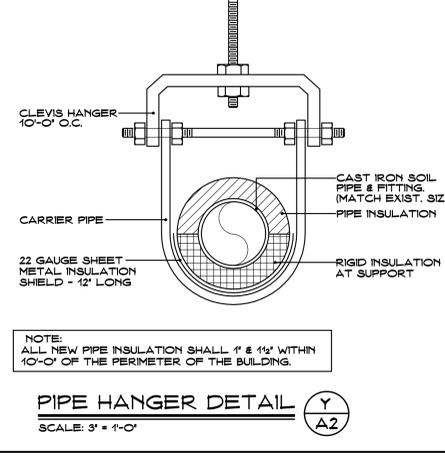
WINDOW DETAIL (V)
SCALE: 1 1/2" = 1'-0"



METAL DECK REPAIR DETAIL (W)
SCALE: 1 1/2" = 1'-0"



EXIST. ROOF HATCH DETAIL (X)
SCALE: 1 1/2" = 1'-0"



PIPE HANGER DETAIL (Y)
SCALE: 3" = 1'-0"