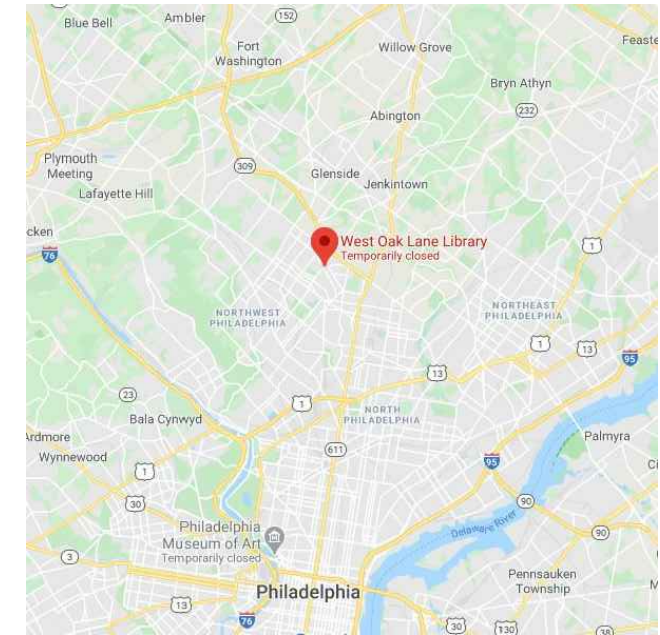


WEST OAK LANE LIBRARY ROOF REPLACEMENT

2000 WASHINGTON LN, PHILADELPHIA, PA



LOCATION MAP



KEY PLAN



AREA OF WORK:

DRAWING INDEX

- SHT 1 - COVER SHEET
- SHT 2 - GENERAL NOTES
- SHT 3 - ROOF PLAN
- SHT 4 - DETAILS
- SHT 5 - DETAILS

WEST OAK LANE LIBRARY ROOF REPLACEMENT
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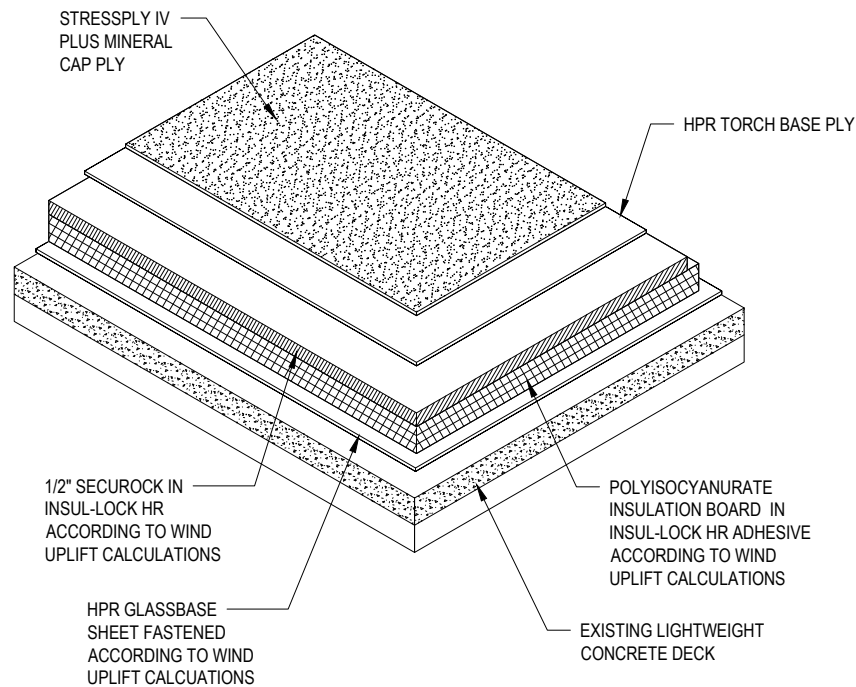
GARLAND REP: PAT TARSI PROJECT NO: 30-ES-200082 DATE: 06/29/2020 DWG BY: TO CHK BY: SCM



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TYPICAL ROOF CROSS SECTION DETAIL



TYPICAL ROOF CROSS SECTION

SCOPE OF WORK NOTES

GENERAL NOTES:

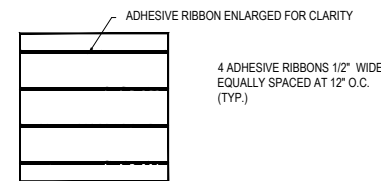
- IT IS THE ROOFING CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH ALL DETAILS INVOLVED IN THE ROOFING CONTRACT.
- ALL DRAWINGS ARE GRAPHIC REPRESENTATION OF APPROXIMATE LOCATION OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- THE ROOFING CONTRACTOR TO PROTECT ALL ADJACENT SURFACES NOT SCHEDULED FOR WORK AND TO REPAIR ANY DAMAGED AREAS AS A RESULT OF CONTRACTOR WORK AT NO ADDITIONAL COST TO THE OWNER.
- THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN WATER TIGHTNESS AND PROVIDE PROTECTION AT ANY/ALL OPENINGS IN THE ROOF LEFT AT THE END OF EACH CONSTRUCTION DAY.
- ALL WOOD BLOCKING SHALL BE PRESSURE TREATED.
- FALL PROTECTION SYSTEM TO BE PROVIDED BY THIRD PARTY.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, CONDITIONS, AND QUANTITIES.

SCOPE OF WORK:

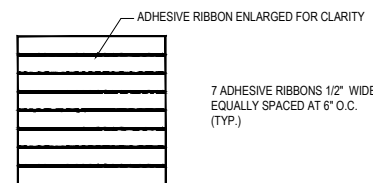
- TEAR OFF EXISTING ROOF DOWN TO THE DECK.
- CONTRACTOR SHALL IDENTIFY AREAS OF DECK WHICH NEED REPAIR OR REPLACEMENT DURING TEAROFF.
- REPAIR AND/OR REPLACE LIGHTWEIGHT CONCRETE FILL.
- REPAIR AND/OR REPLACE CONCRETE DECK.
- REPAIR AND/OR REPLACE STEEL CORRUGATED DECK.
- INSTALL 1/8" POLYISOCYANURATE TAPERED INSULATION WITH A MINIMUM OF R-30 INSULATION SET IN INSUL-LOCK HR BASED ON SPECIFIC WIND UPLIFT CALCULATIONS.
- REMOVE DATA WIRE FROM EXISTING EDGE METAL SYSTEM AND RELOCATE THROUGH BRICK VENEER WALL.
- INSTALL METAL EXTENDER UNDER R-MER FORCE FASCIA SYSTEM TO BE FLUSH WITH BUILDING FACADE.
- RAISE ALL CURBS AT A HEIGHT OF 8" USING WOOD BLOCKING.
- RAISE ROOF HATCH 9.5" USING NEW WOOD BLOCKING.
- RAISE MECHANICAL UNITS 6.5" USING NEW WOOD BLOCKING.
- RAISE POSITIVE AIR VENT 5.5" USING NEW WOOD BLOCKING.
- RAISE EXHAUST FAN 6.5" USING NEW WOOD BLOCKING.
- RAISE EXISTING PLUMBING PIPE VENTS TO 12" FROM NEW ROOF LEVEL.
- ROOFER TO REMOVE AND DISPOSE OF TREE LIMBS THAT ARE HANGING OVER THE ROOF.
- REPLACE ROOF DRAINS AND RAISE LEVEL OF DRAINS WITH DRAIN LINE EXTENDER TO PREVENT STEEP SUMPS. WHERE ROOF DRAINS CAN'T BE REPLACED DUE TO ACCESS, REPLACE CLAMPING RING, DOME, TAP/REPLACE BOLTS, CLEAN BOWLS, INSTALL 36" X 36" LEAD PAN AND INSTALL 8' X 8' SUMPS
- AT STEEP DRAIN SUMP LOCATIONS, USE 36" X 36" LEAD PAN AND LIQUID APPLIED FLASHINGS.
- INSTALL 1/2" TAPERED CRICKETS AT ROOF LEVEL EQUIPMENT TO ENHANCE ROOF DRAINAGE.
- ROOFING CONTRACTOR TO IDENTIFY CLOGS AND WATER TIGHTNESS AT EACH INTERNAL ROOF DRAIN PRIOR TO ROOFING.
- AT GLASS BLOCK/STORE FRONT, FABRICATE AND INSTALL A RETURN AT BOTTOM OF EXTENDER 3 5/8".
- REMOVE ELECTRICAL CONDUIT AT EXTERIOR FACADE AND RELOCATE THROUGH ROOF WITH NEW COPPER PITCH POCKET.

INSULATION ADHESIVE PATTERN

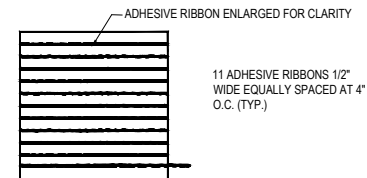
TYPICAL ZONE 1 INSULATION BOARD ADHESIVE PATTERN: 12" OC BEADS PER BOARD



TYPICAL ZONE 2 INSULATION BOARD ADHESIVE PATTERN: 6" OC BEADS PER BOARD



TYPICAL ZONE 3 INSULATION BOARD ADHESIVE PATTERN: 4" OC BEADS PER BOARD



DESIGN CRITERIA

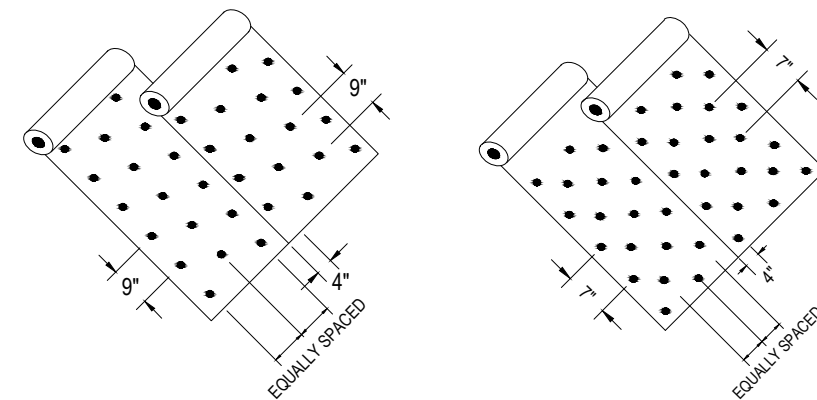
WIND UPLIFT REQUIREMENTS

- | | |
|------------------------|------------------|
| 1. WIND SPEED: | 120 MPH |
| 2. BUILDING TYPE: | ENCLOSED |
| 3. EXPOSURE CATEGORY: | B |
| 4. IMPORTANCE CLASS: | III |
| 5. IMPORTANCE FACTOR: | 1.00 |
| 6. DESIGN ROOF HEIGHT: | 15.0' |
| 7. TOPOGRAPHY FACTOR: | 1.00 |
| 8. ROOF SLOPE: | 1/8 UNITS PER 12 |

RESULTING WIND UPLIFT PRESSURES:

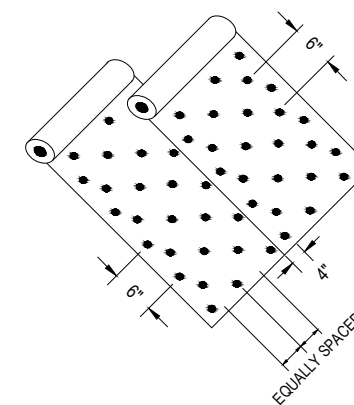
- ZONE 1: 15.5 PSF
- ZONE 2: 26.1 PSF
- ZONE 3: 39.3 PSF

BASE SHEET ATTACHMENT PATTERN



ZONE 1

ZONE 2



ZONE 3

GENERAL NOTES

NOTES

- STORE AND HANDLE ROOFING SHEETS IN A DRY, WELL-VENTILATED, WEATHER-TITE PLACE. STORE ROLLS OF FELT AND OTHER SHEET MATERIALS ON RAISED SURFACE. STAND ALL ROLL MATERIALS ON END. COVER ROLL GOODS WITH A CANVAS TARPULIN OR OTHER BREATHABLE MATERIAL (NOT POLYETHYLENE).
- DO NOT LEAVE UNUSED MATERIALS ON THE ROOF WHEN ROOFING WORK IS NOT IN PROGRESS UNLESS PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE ALL MATERIAL AND EQUIPMENT ON THE JOB SITE. IF ANY MATERIAL OR EQUIPMENT IS STORED ON THE ROOF, THE CONTRACTOR MUST MAKE SURE THAT THE INTEGRITY OF THE DECK IS NOT COMPROMISED AT ANY TIME.
- DO NOT APPLY ROOFING INSULATION OR MEMBRANE TO DAMP DECK SURFACE.
- FULLY COMPLETE ALL MODIFIED BITUMINOUS MEMBRANE ROOFING FIELD ASSEMBLY WORK EACH DAY. PHASED CONSTRUCTION WILL NOT BE ACCEPTED.

CUSTOMER NOTE:

- ALL OF GARLAND'S SHOP FABRICATED MATERIAL WILL BE MANUFACTURED TO THE DIMENSIONS SHOWN, UNLESS OTHERWISE NOTED.
- IT IS ESSENTIAL THAT ANY NECESSARY CHANGES, NOTATIONS OR REQUESTED INFORMATION BE CLEARLY NOTED ON THE SHOP DRAWINGS.
- NO MATERIAL WILL BE CONSIDERED RELEASED FOR FABRICATION UNTIL ALL PERTINENT INFORMATION (I.E. COLOR, DIMENSIONS, MATERIAL CONFIGURATION) HAS BEEN RECEIVED.

WEST OAK LANE LIBRARY ROOF REPLACEMENT
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CHK BY: SCM

DWG BY: TO

DATE: 06/29/2020

PROJECT NO: 30-ES-200082

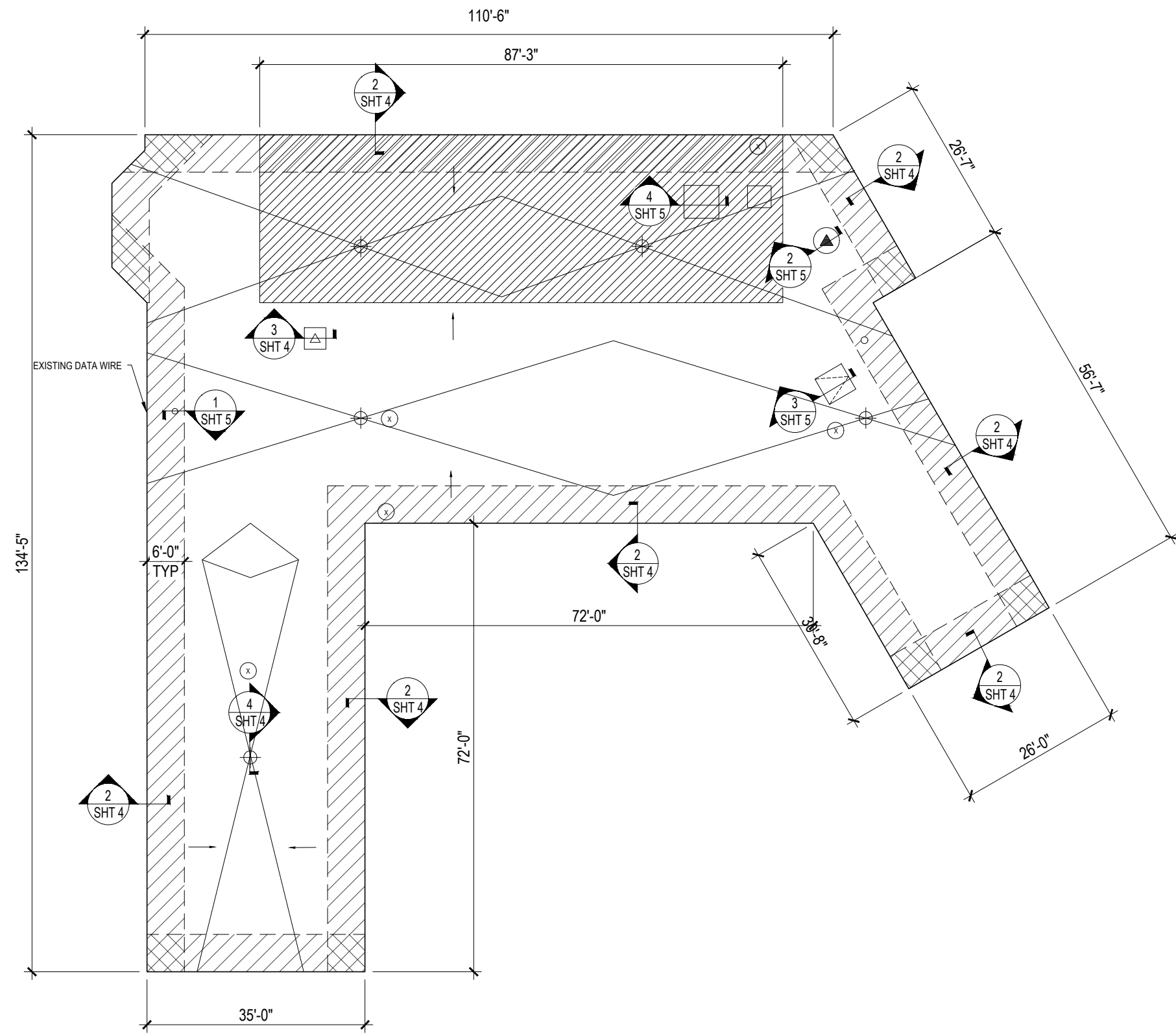
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REVISION:



WIND PRESSURE ZONE DESIGNATION	ZONE TYPE
[Diagonal Hatching]	ZONE 1
[Cross-hatch]	ZONE 2
[Grid Pattern]	ZONE 3

NOTE:
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, CONDITIONS, AND QUANTITIES.

SYMBOL LEGEND	
[Rectangle]	MECH UNIT CURB
[Hatched Triangle]	ROOF HATCH
[Cross-hatched Square]	SKYLIGHT
[Circle with X]	ROOF DRAIN
[Triangle with Arrow]	EXHAUST FAN
[Circle]	HEAT STACK
[Dot]	PLUMBING STACK
[Square]	ROOF PENETRATION
[Triangle]	AIR INTAKE
[Circle with X]	ASBESTOS SAMPLE
[Hatched Area]	METAL DECK

NOTE:
SECTIONS NOT LABELED METAL DECK ARE PRECAST CONCRETE DECKING

ROOF PLAN

ARCH. REF.: SCALE: 1" = 20'-0"



REVISION:

GARLAND REP: PAT TARSİ

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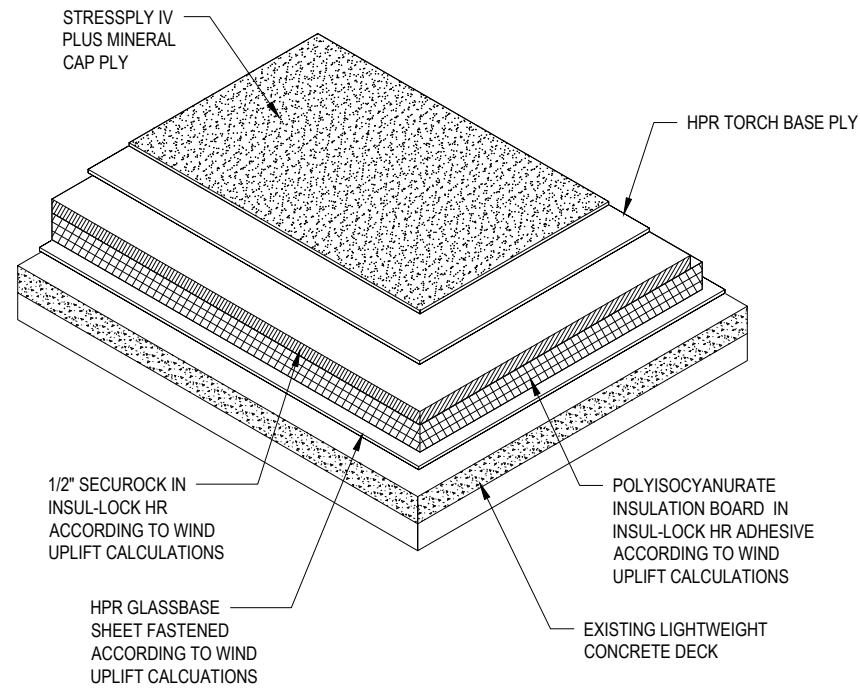
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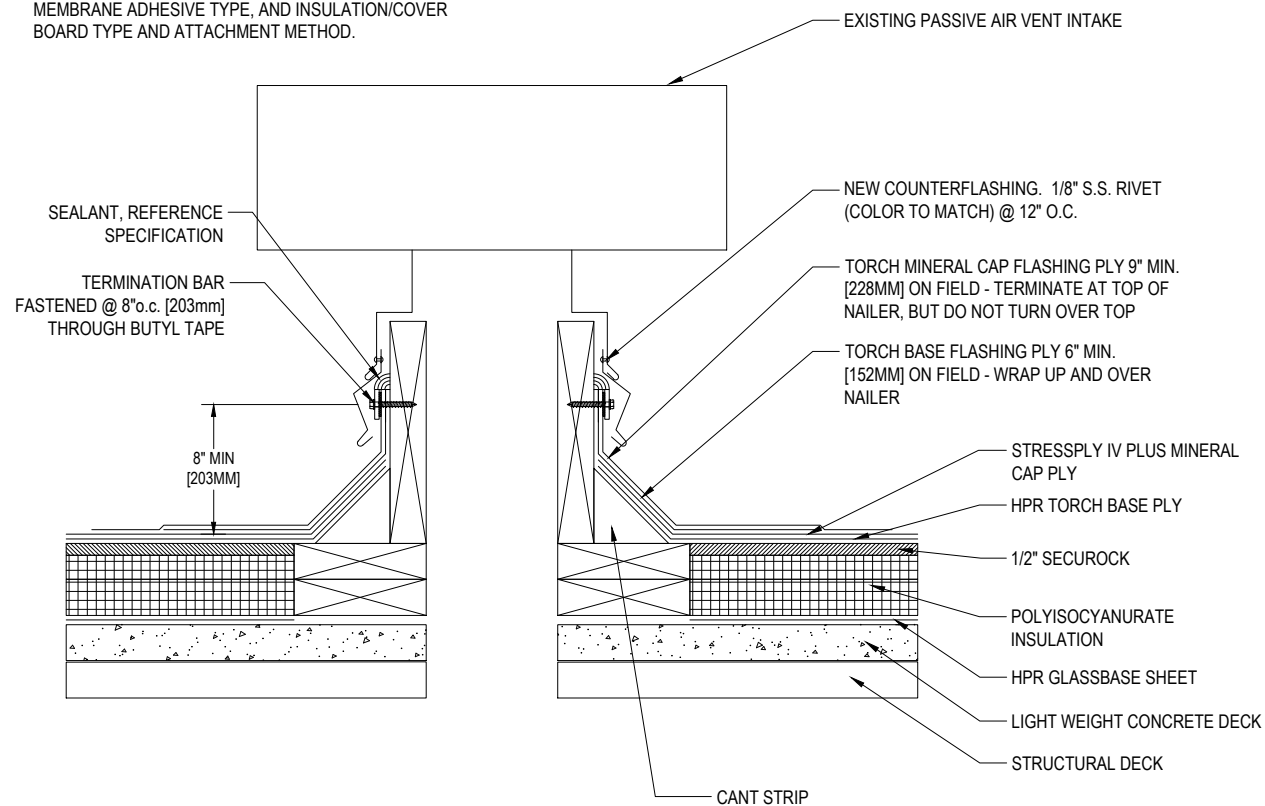




1 TYPICAL FIELD DETAIL

SHT 4 SCALE: 1 1/2" = 1'-0"

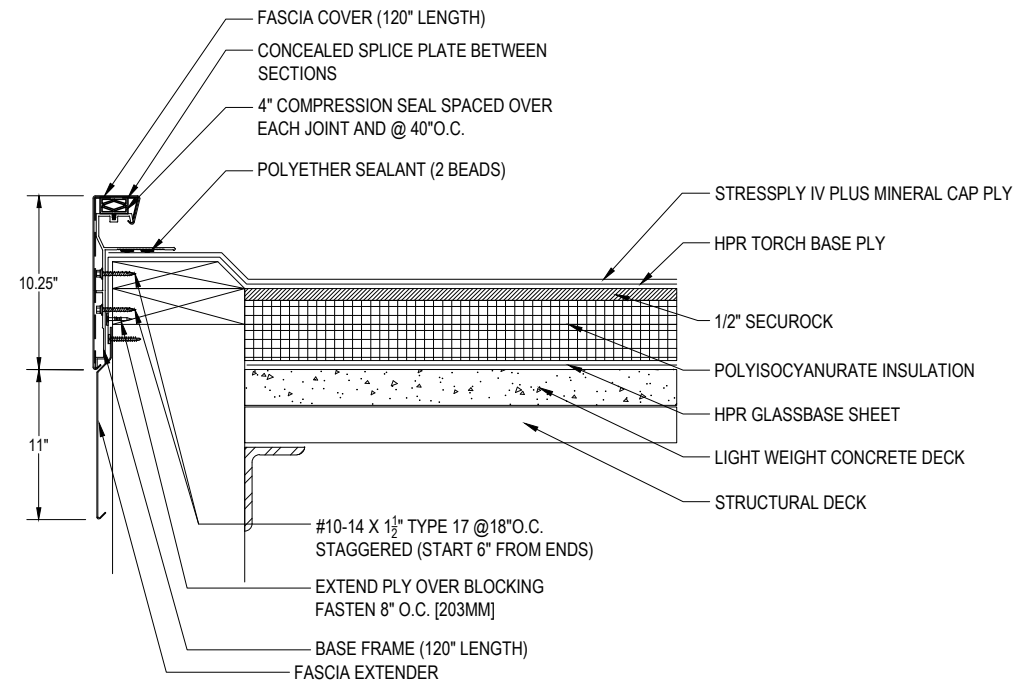
NOTE:
REFERENCE SPECIFICATION FOR SURFACING,
MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER
BOARD TYPE AND ATTACHMENT METHOD.



3 PASSIVE VENT DETAIL

SHT 4 SCALE: 1 1/2" = 1'-0"

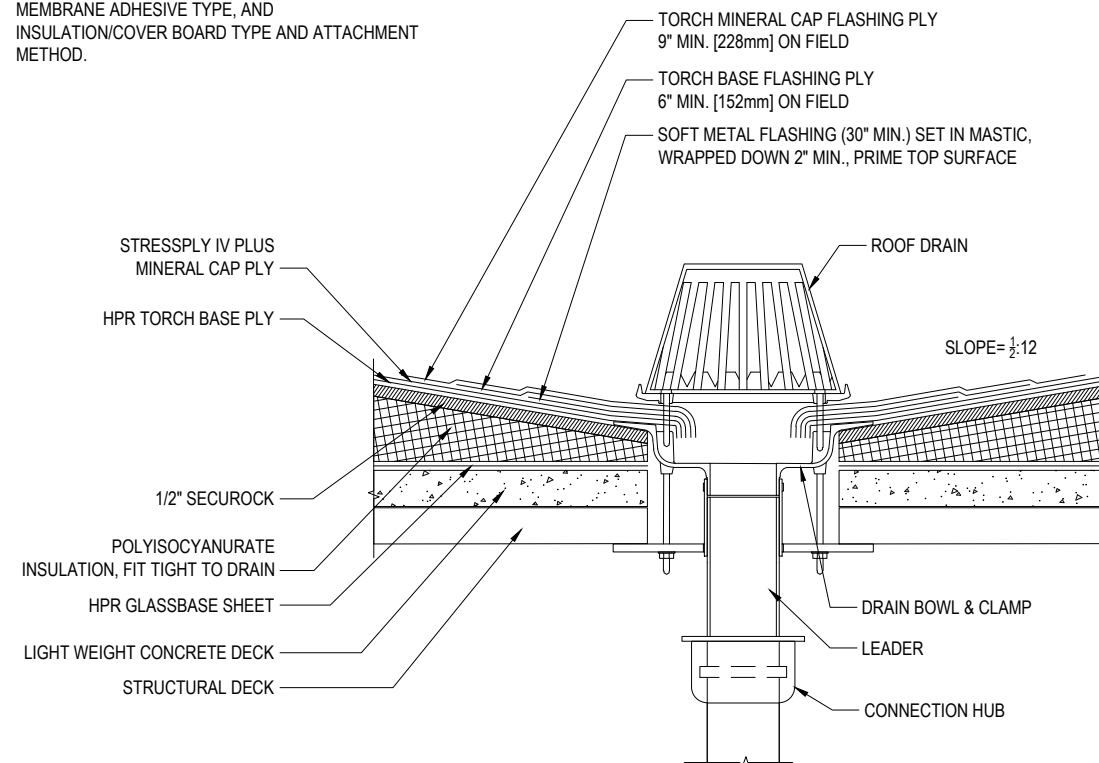
NOTE:
REFERENCE SPECIFICATION FOR SURFACING,
MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER
BOARD TYPE AND ATTACHMENT METHOD.



2 R-MER FORCE RAISED EDGE DETAIL

SHT 4 SCALE: 1 1/2" = 1'-0"

NOTE:
REFERENCE SPECIFICATION FOR SURFACING,
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INSULATION/COVER BOARD TYPE AND ATTACHMENT
METHOD.



4 ROOF DRAIN DETAIL

SHT 4 SCALE: 1 1/2" = 1'-0"

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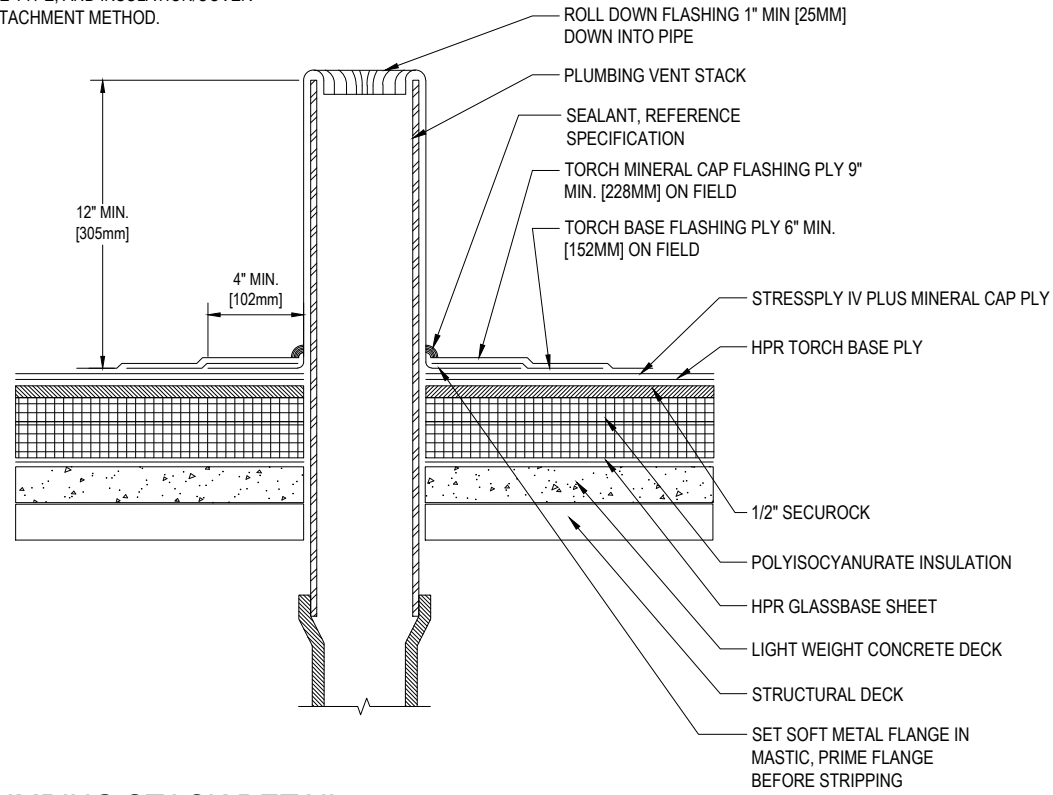
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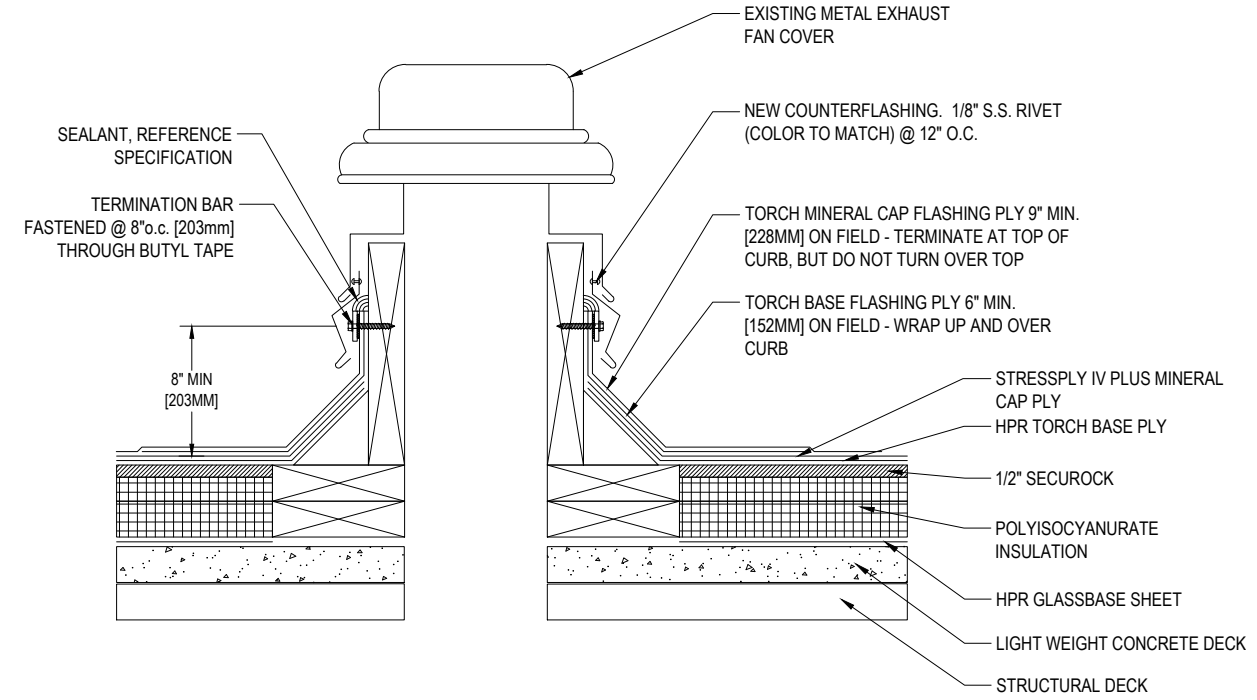
NOTE:
REFERENCE SPECIFICATION FOR SURFACING,
MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER
BOARD TYPE AND ATTACHMENT METHOD.



1 PLUMBING STACK DETAIL

SHT 5 SCALE: 1 1/2" = 1'-0"

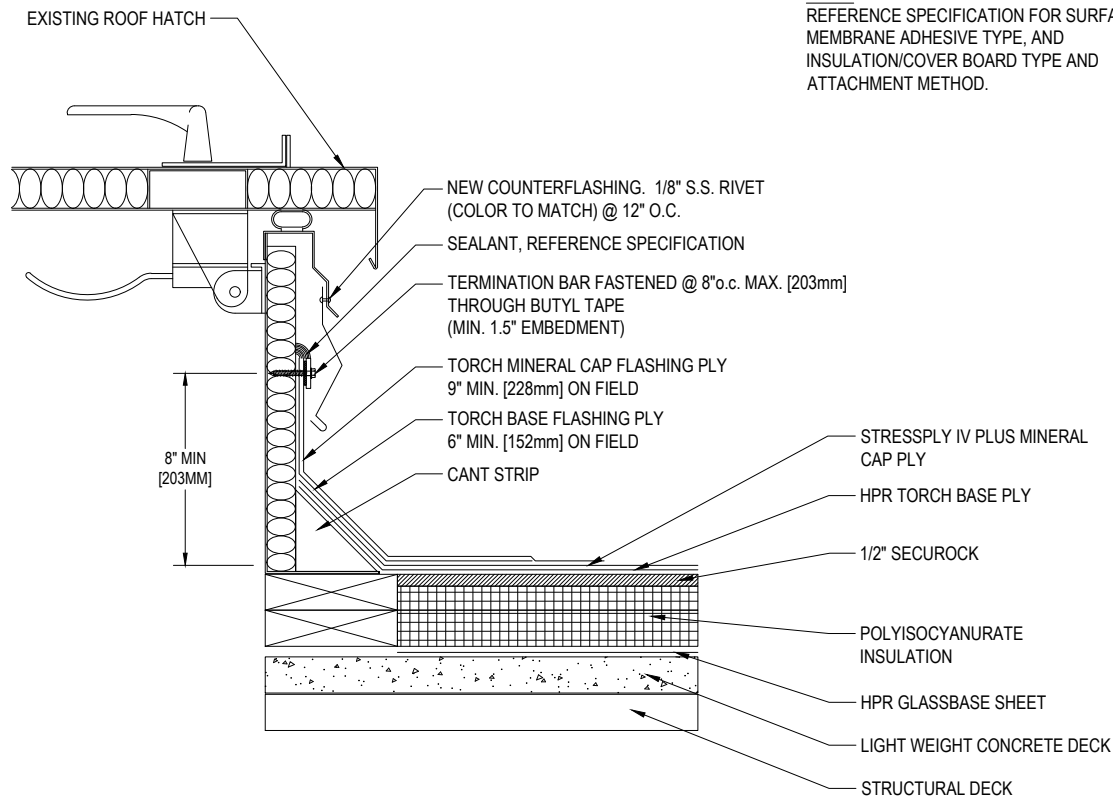
NOTE:
REFERENCE SPECIFICATION FOR SURFACING,
MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER
BOARD TYPE AND ATTACHMENT METHOD.



2 EXHAUST FAN DETAIL

SHT 5 SCALE: 1 1/2" = 1'-0"

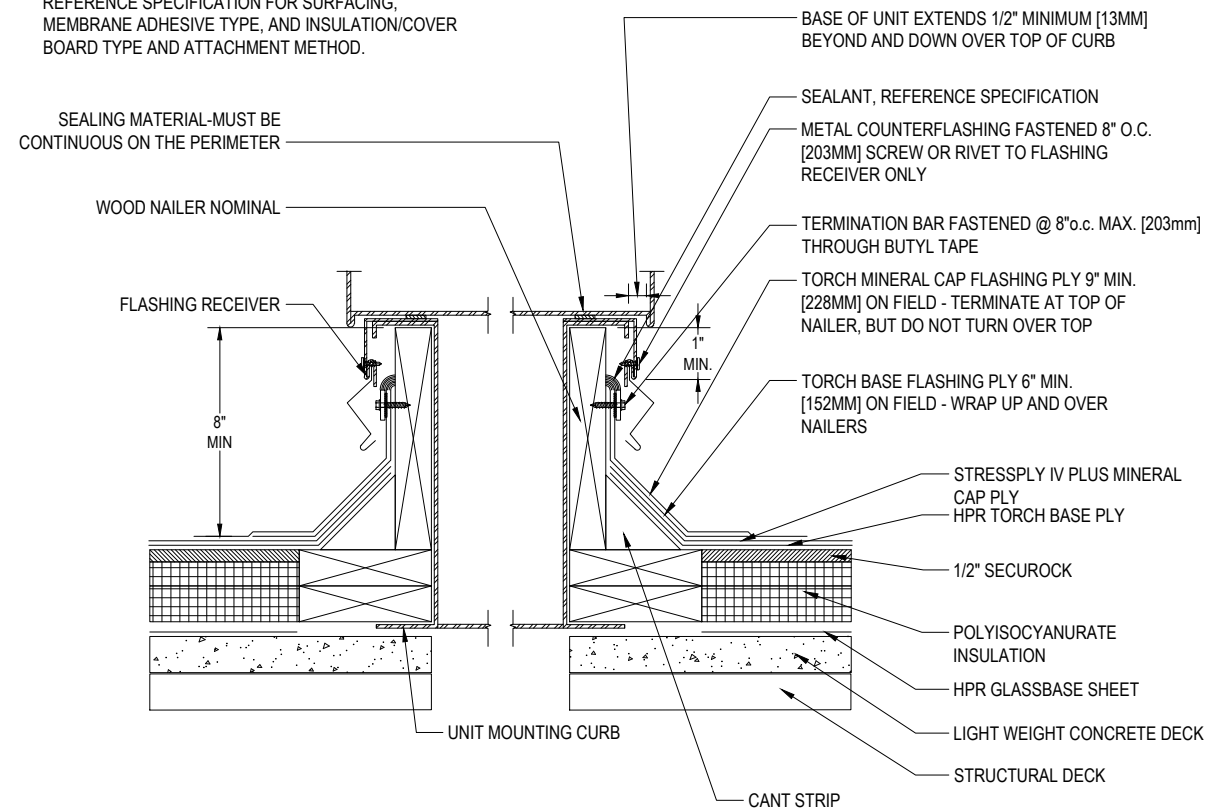
NOTE:
REFERENCE SPECIFICATION FOR SURFACING,
MEMBRANE ADHESIVE TYPE, AND
INSULATION/COVER BOARD TYPE AND
ATTACHMENT METHOD.



3 ROOF HATCH DETAIL

SHT 5 SCALE: 1 1/2" = 1'-0"

NOTE:
REFERENCE SPECIFICATION FOR SURFACING,
MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER
BOARD TYPE AND ATTACHMENT METHOD.



4 MECHANICAL CURB DETAIL

SHT 5 SCALE: 1 1/2" = 1'-0"

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