

CONSTRUCTION DOCUMENTS

SOLID WASTE ADMINISTRATION BUILDING ORANGE COUNTY GOVERNMENT ROOFING REPLACEMENT AND REPAIR PROJECT

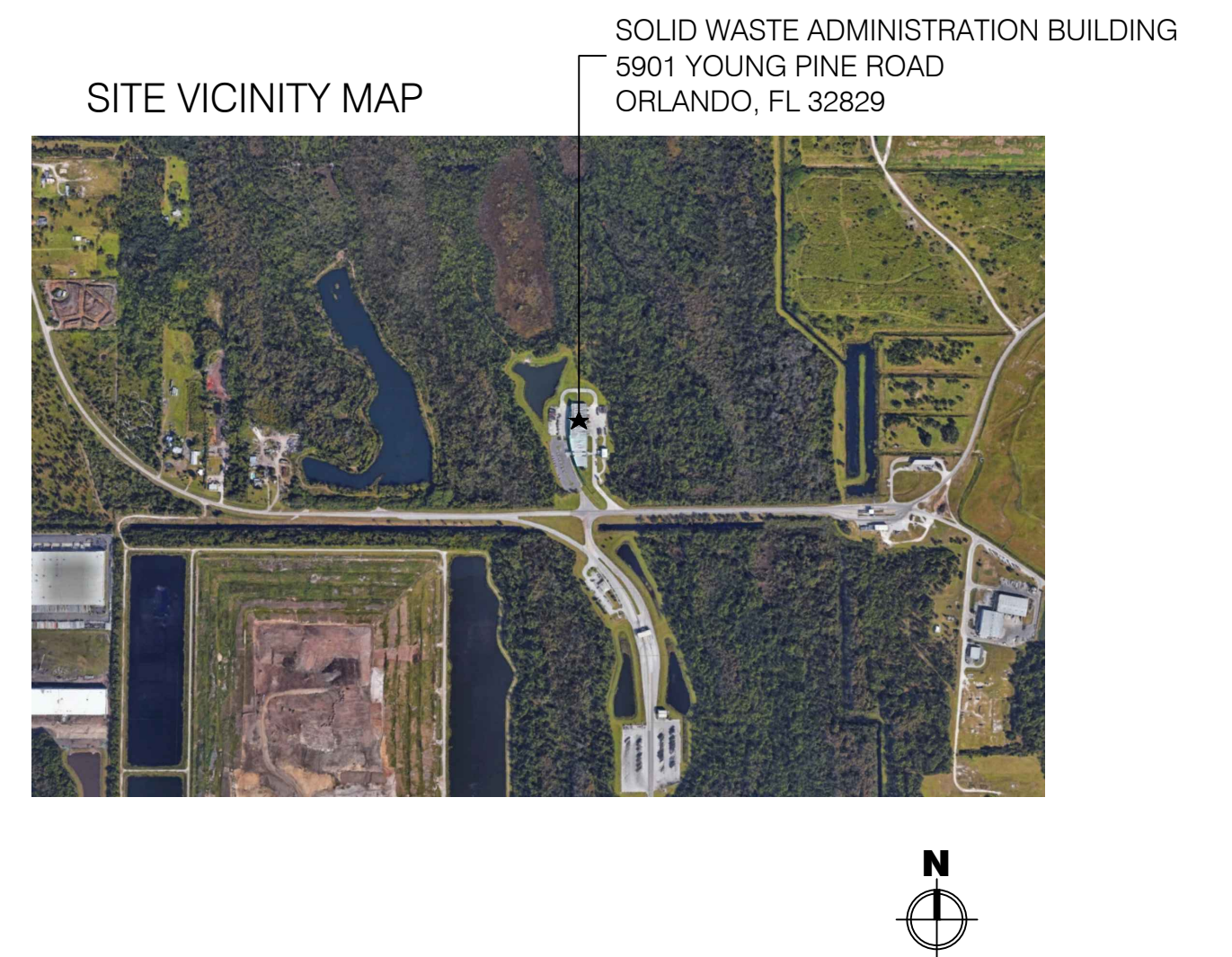
5901 YOUNG PINE ROAD
ORLANDO, FLORIDA 32829

PREPARED FOR:



PO NO. 17906008

MAY 8, 2019



DRAWING INDEX

SHEET NUMBER	SHEET TITLE	ORIGINAL DATE	REVISION NUMBER	REVISION DATE	SHEET NUMBER	SHEET TITLE	ORIGINAL DATE	REVISION NUMBER	REVISION DATE
AD-1.1	COVER SHEET	5/08/2019	0	NA	A3.4	ROOFING REPLACEMENT DETAILS	5/08/2019	0	N/A
A1.1	SYMBOLS, ABBREVIATIONS & CODE INFORMATION	5/08/2019	0	N/A	A3.5	ROOFING REPLACEMENT DETAILS	5/08/2019	0	N/A
A1.2	GENERAL NOTES	5/08/2019	0	NA	A3.6	ROOFING REPLACEMENT DETAILS	5/08/2019	0	N/A
A2.1	EXISTING CONDITIONS ROOF PLAN	5/08/2019	0	NA	A3.7	ROOFING REPLACEMENT DETAILS	5/08/2019	0	NA
A2.2	PROPOSED ROOF PLAN	5/08/2019	0	NA	A3.8	ROOFING REPLACEMENT DETAILS	5/08/2019	0	N/A
A2.3	WIND UPLIFT PRESSURE PLAN	5/08/2019	0	NA	A3.9	ROOFING REPLACEMENT DETAILS	5/08/2019	0	N/A
A3.1	ROOFING REPLACEMENT DETAILS	5/08/2019	0	NA	A5.1	PHOTOGRAPHS	5/08/2019	0	N/A
A3.2	ROOFING REPLACEMENT DETAILS	5/08/2019	0	NA	A5.2	PHOTOGRAPHS	5/08/2019	0	N/A
A3.3	ROOFING REPLACEMENT DETAILS	5/08/2019	0	NA	S0.1	GENERAL NOTES	5/08/2019	0	N/A
					S2.1	PARTIAL ROOF FRAMING PLAN	5/08/2019	0	N/A
					S2.2	PARTIAL ROOF FRAMING PLAN	5/08/2019	0	N/A
					S5.1	SECTIONS & DETAILS	5/08/2019	0	N/A

MAYOR: JERRY L. DEMINGS
BOARD OF COUNTY COMMISSIONERS:
DISTRICT 1 - BETSY VANDERLEY
DISTRICT 2 - CHRISTINE MOORE
DISTRICT 3 - MAYRA URIBE
DISTRICT 4 - MARIBEL GOMEZ CORDERO
DISTRICT 5 - EMILY BONILLA
DISTRICT 6 - VICTORIA P. SIPLIN

ARCHITECTS CODE COMPLIANCE CERTIFICATION
JAY AMMON ARCHITECT, INC. CERTIFIES THAT THESE CONSTRUCTION DOCUMENTS COMPLY WITH THE FLORIDA BUILDING CODE - BUILDING, 2017 EDITION

CONSTRUCTION DOCUMENTS
ORANGE COUNTY GOVERNMENT
SOLID WASTE ADMINISTRATION BUILDING
ORLANDO, FLORIDA
ROOFING REPLACEMENT PROJECT
PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC.
3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779
(407) 333-1977 • FAX: (407) 333-6686 • E-MAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: NHR PROJECT NUMBER: 18-093
APPROVED BY: JDA PHASE: CONSTRUCTION DOCS
ENGINEER: DATE: MAY 8, 2019

COVER SHEET

AD1.1

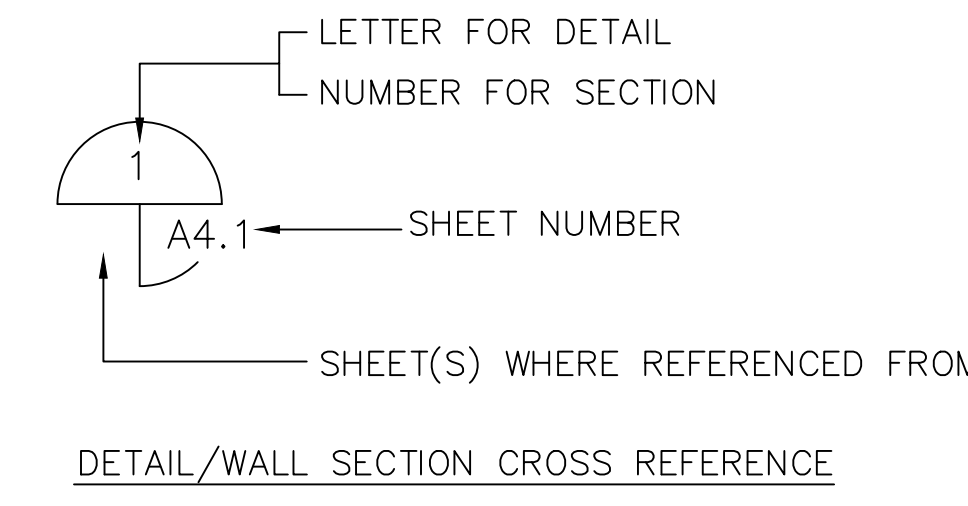
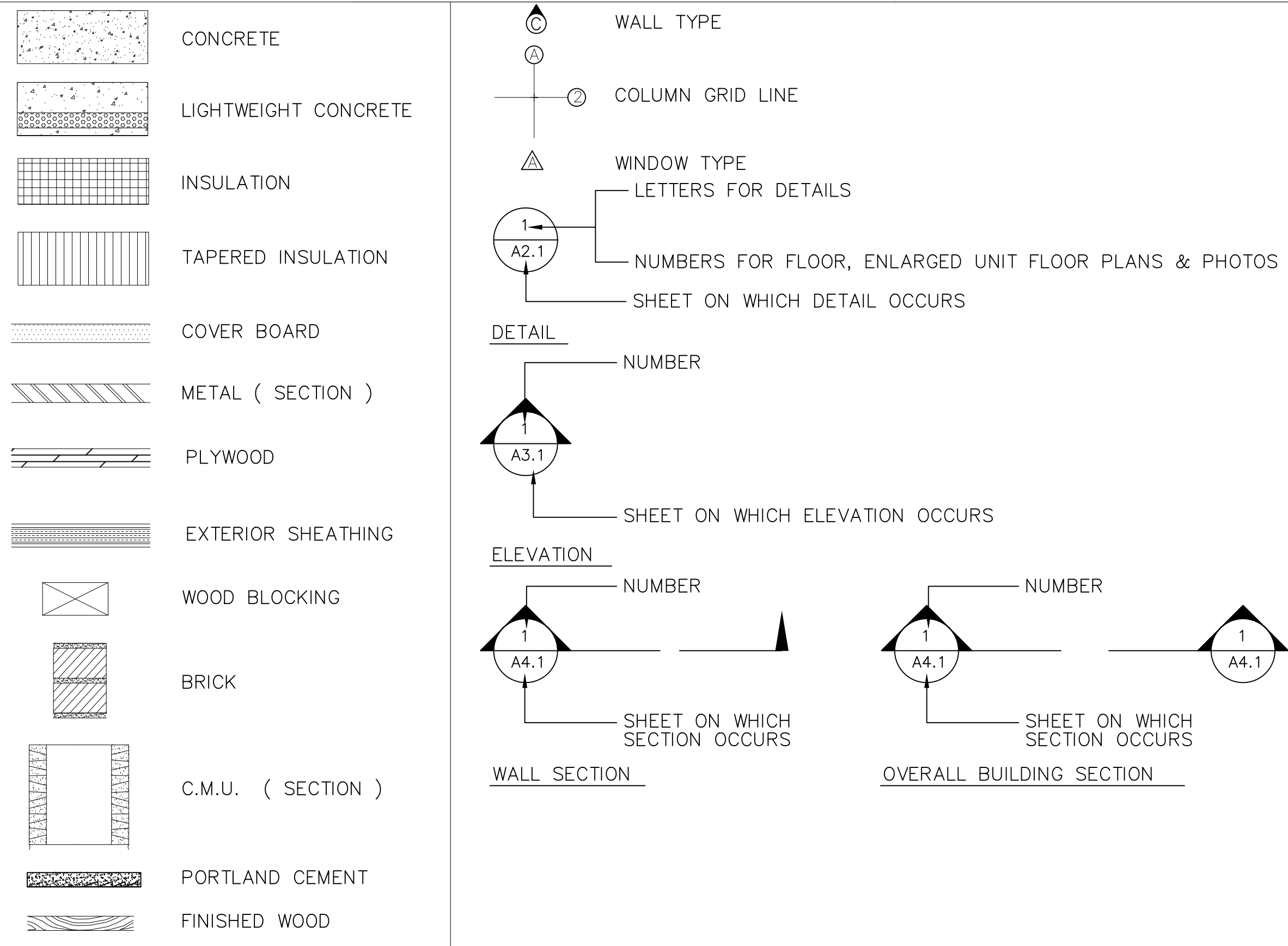
PLOT: N.T.S. SHEET

ARCHITECTURAL ABBREVIATIONS

ACOUS.	ACOUSTICAL
A/C	AIR CONDITIONING
A.T.	ACOUSTICAL TILE
A.F.F.	ABOVE FINISHED FLOOR
ADJ.	ADJUSTABLE
AL.	ALTERNATE
ALT.	ALTERNATE
&	AND
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
A.D.	AREA DRAIN
ASPH.	ASPHALT
@	AT
∠	ANGLE
BM.	BEAM
B.M.	BENCH MARK
BIT.	BITUMINOUS
BLK.	BLOCKING
BD.	BOARD
BOT.	BOTTOM
BLDG.	BUILDING
B.U.	BUILT UP
B.R.	BACKER ROD
C.P.T.	CARPET
C.B.	CATCH BASIN
CK.	CAULKING
CLG.	CEILING
CEM.	CEMENT
⊕ OR CL.	CENTERLINE
C.T.	CERAMIC TILE
[OR CH.	CHANNEL
COL.	COLUMN
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNIT
CONT.	CONTINUOUS
C.J.	CONTROL JOINT
CONF.	CONFERENCE
C.R. CH.	COLD ROLL CHANNEL
DP.	DAMP PROOFING
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DS.	DOWNSPOUT
DWGS.	DRAWINGS
E.	ELEVATOR
EA.	EACH
ELEC.	ELECTRICAL
E.D.F.	ELECTRICAL DRINKING FOUNTAIN
E.P.	ELECTRICAL PANELBOARD
ELEV.	ELEVATION
EL.	ELEVATION
E.J.	EXPANSION JOINT
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXP.	EXPANSION
EXST.	EXISTING
EXT.	EXTERIOR
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM
FIN.	FINISH
FIN. FL.	FINISH FLOOR
F.H.C.	FIRE HOSE CABINET
F.H.	FIRE HYDRANT
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
FL.	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
F.S.	FULL SIZE
FURR	FURRING
GALV.	GALVANIZED
GA.	GAUGE
GL.	GLASS
G.B.	GRAB BAR
GYP.	GYPSUM
GYP.BD.	GYPSUM BOARD
G.C.	GENERAL CONTRACTOR
HCP.	HANDICAP
HDWE.	HARDWARE
HVAC.	HEATING/VENTILATING & AIR COND.
HGT.	HEIGHT
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.B.	HOSE BIB
I.D.	INSIDE DIAMETER (DIM.)
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
JAN.	JANITOR
J.B.	JOIST BEARING
JT.	JOINT
LAM.	LAMINATE
LAV.	LAVATORY
L.A.T.	LAY-IN-ACOUSTICAL TILE
L.T. WT.	LIGHT WEIGHT
MTL.	METAL
M.H.	MOP HANGER
MH.	MANHOLE
MFG.	MANUFACTURER
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MIN.	MINIMUM

MISC.	MISCELLANEOUS
M.R.GYP.BD.	MOISTURE RESISTANT GYPSUM BOARD
MTD.	MOUNTED
NOM.	NOMINAL
N.I.C.	NOT IN CONTRACT
NO. OR	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
OH.	OVERHEAD
OPH.	OPPOSITE HAND
O.D.	OUTSIDE DIAMETER (DIM.)
PTD.	PAINTED
PR.	PAIR
PTN.	PARTITION
PVMT.	PAVEMENT
PLAS.	PLASTER
PL.	PLATE
POL.	POLISHED
LBS.	POUNDS
P.I.P.	POURED-IN-PLACE
PRE-FAB.	PRE-FABRICATED
PC. CONC.	PRECAST CONCRETE
P.T.D.	PAPER TOWEL DISPENSER
P.LAM.	PLASTIC LAMINATE
PWD.	PLYWOOD
ℙ OR P.L.	PROPERTY LINE
Q.T.	QUARRY TILE
RAD.	RADIUS
REF.	REFERENCE
R.C.P.	REINFORCED CONCRETE PIPE
REINF.	REINFORCEMENT
REQ.	REQUIRED
RESIL.	RESILIENT
R.	RISER
R.D.	ROOF DRAIN
RM.	ROOM
∅ OR RD.	ROUND
R.B.	RUBBER BASE
S.N.D.	SANITARY NAPKIN DISPENSER
SLT.	SEALANT
SEC.	SECURITY
SEC. GL.	SECURITY GLASS
S.H.M.	SECURITY HOLLOW METAL
SER. S.	SERVICE SINK
SCHD.	SCHEDULE
SHT.	SHEET
S.V.	SHEET VINYL
SIM.	SIMILAR
S.D.	SOAP DISPENSER
S.C.	SOLID CORE
SPEC.	SPECIFICATION
SQ.	SQUARE
SQ. FT.	SQUARE FEET
STD.	STANDARD
S.S.	STAINLESS STEEL
STL.	STEEL
STOR.	STORAGE
ST. DR.	STORM DRAIN
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
TEL.	TELEPHONE
TEMP. GL.	TEMPERED GLASS
TH.	THRESHOLD
T.P.H.	TOILET PAPER HOLDER
T.C.	TOP OF CURB
T.P.	TOP OF PAVEMENT
T.O.S.	TOP OF STEEL
T.B.	TOWEL BAR
T.	TREAD
TRTD.	TREATED
TYP.	TYPICAL
V.B.	VINYL BASE
V.C.T.	VINYL COMPOSITION TILE
V.W.C.	VINYL WALL COVERING
VERT.	VERTICAL
VEST.	VESTIBULE
W.H.	WATER HEATER
W.P.	WATERPROOF
W.W.M.	WELDED WIRE MESH
W. GL.	WIRE GLASS
W/	WITH
W.C.	WATER CLOSET
W/O	WITHOUT
WSCT.	WAINSCOT
WT.	WEIGHT
WD.	WOOD

ARCHITECTURAL GRAPHIC SYMBOLS



CODE INFORMATION

CURRENT BUILDING CODES		
Building :	2017 FLORIDA BUILDING CODE	Edition : SIXTH
Mechanical :	2017 FLORIDA MECHANICAL CODE	Edition : SIXTH
Plumbing :	2017 FLORIDA PLUMBING CODE	Edition : SIXTH
	2017 FLORIDA FUEL GAS CODE	Edition : SIXTH
Electrical :	2017 FLORIDA ELECTRICAL CODE	Edition : SIXTH
Accessibility:	2017 FLORIDA ACCESSIBILITY CODE	Edition : SIXTH
	2017 FLORIDA ENERGY CONSERVATION CODE	Edition : SIXTH

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 ORANGE COUNTY GOVERNMENT
 SOLID WASTE ADMINISTRATION BUILDING
 ORLANDO, FLORIDA
 ROOFING REPLACEMENT PROJECT
 PROJECT NUMBER: 18-093

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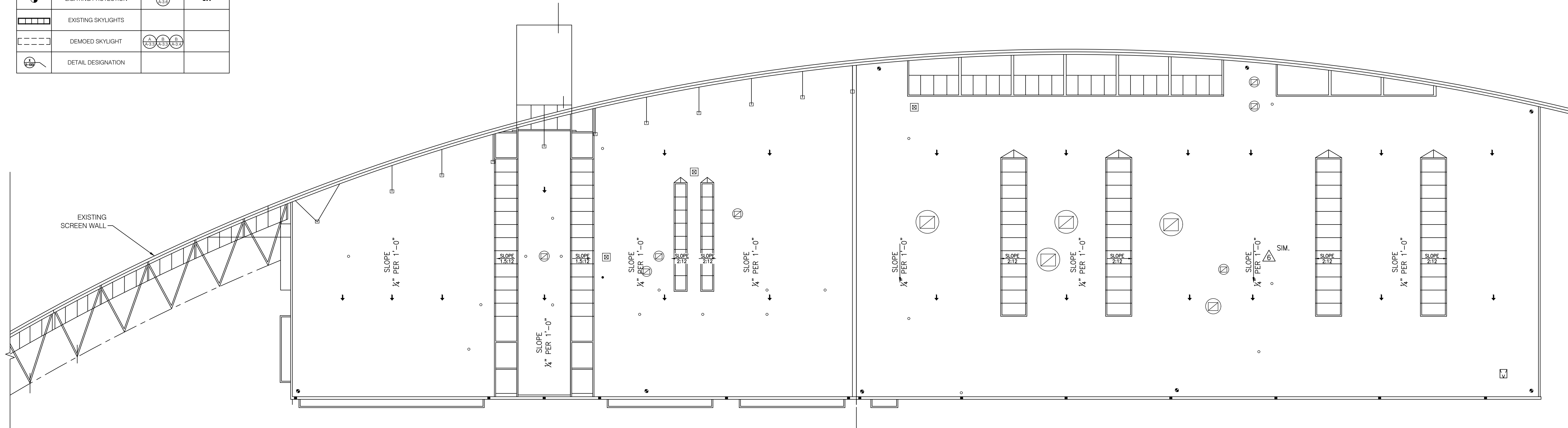
NUMBER	TYPE	REVISIONS	DATE

DRAWN BY: NHR PROJECT NUMBER: 18-093
 APPROVED BY: JPA PHASE: CONSTRUCTION DOCS
 ENGINEER: DATE: MAY 8, 2019

SYMBOLS, ABBREVIATIONS AND CODE INFORMATION
A1.1

PLOT: 1"=20' SHEET

LEGEND			
SYMBOL	DESCRIPTION	DETAIL	SCOPE OF WORK ITEM
	PARAPET WALL		1.0, 2.0
	GUTTER WITH DOWNSPOUT		1.0, 2.0
	EXISTING STRUCTURAL ROOF SLOPE		1.0, 2.0
	TAPERED INSULATION		
	DOWNSPOUT DESIGNATION		1.0, 2.0
	ROOFING ASSEMBLY TYPE 1: NEW LOW-SLOPE MODIFIED BITUMEN ROOFING ASSEMBLY		1.0
	DETAIL DESIGNATION		
	NOT IN CONTRACT		
	ROOF AREA DESIGNATION		
	ROOF ACCESS DOOR		4.1
	PLUMBING VENT		1.0, 2.0
	CONDUIT PENETRATION		1.0, 2.0
	EXHAUST VENT		1.0, 2.0
	DIAGONAL BRACING		1.0
	LIGHTING PROTECTION		3.1
	EXISTING SKYLIGHTS		
	DEMOLDED SKYLIGHT		
	DETAIL DESIGNATION		



SCOPE OF WORK:

- 1.0 ROOFING ASSEMBLY TYPE 1 - ROOFING REPLACEMENT - LOW SLOPE ROOF AREAS:**
- 1.1 ROOFING REMOVAL:** REMOVE THE EXISTING ROOF SYSTEM DOWN TO THE TOP SURFACE OF THE EXISTING STRUCTURAL METAL DECK. REMOVE ANY DAMAGED OR DETERIORATED METAL DECK. REMOVE ALL ASBESTOS CONTAINING MATERIALS AND PROPERLY DISPOSE OF ACCORDING TO OWNER AND CURRENT GOVERNMENTAL REQUIREMENTS. OBTAIN ASBESTOS SURVEY REPORT FROM ORANGE COUNTY GOVERNMENT PRIOR TO DEMOLITION. THE ROOFING COMPONENTS TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO ALL EXISTING COATINGS, MODIFIED BITUMEN ROOF MEMBRANES, COVER BOARD, SINGLEPLY ROOF MEMBRANE, RIGID POLYISOCYANURATE INSULATION, METAL FLASHINGS, RELATED FASTENERS, AND CANTS.
- 1.2 TEMPORARY REMOVAL:** TEMPORARILY REMOVE THE FOLLOWING COMPONENTS AND REINSTALL DURING THE ROOFING REPLACEMENT PROJECT AS REQUIRED TO PROVIDE A WATER-TIGHT INSTALLATION. REPAIR OR REPLACE THE COMPONENTS AS REQUIRED TO MEET OR EXCEED THE LEVEL OF PERFORMANCE THAT WAS PRESENT PRIOR TO REMOVAL OF THE COMPONENTS. COMPONENTS INCLUDE ELECTRICAL JUNCTION BOXES, OUTLETS, CONDUITS, ANTENNAS, SECURITY CAMERAS, ROOF MOUNTED LIGHTS, POWER VENTS, ELEVATED HVAC EQUIPMENT AND OTHER MISCELLANEOUS ELECTRICAL COMPONENTS. REINSTALL EXISTING COMPONENTS AFTER THE INSTALLATION OF NEW ROOFING ASSEMBLY COMPONENTS.
- 1.3 EXISTING SKYLIGHT CURBS:** REMOVE EXISTING DESIGNATED SKYLIGHTS FROM ROOF SURFACES. SEE STRUCTURAL DRAWINGS FOR DECK AND FRAMING INSTALLATION. INSTALL RIGID INSULATION AND COVER BOARD FLUSH TO ADJACENT ROOF SURFACES AS SHOWN ON APPROVED DRAWINGS.
- 1.4 PIPE PENETRATIONS AND EQUIPMENT:** WHERE DESIGNATED ON THE DRAWINGS TO REMAIN, REMOVE METAL AND MEMBRANE FLASHINGS AT THE EXISTING PLUMBING VENTS. EXTEND EXISTING PLUMBING VENTS AS REQUIRED TO MAINTAIN A MINIMUM HEIGHT OF 8 INCHES ABOVE THE NEW FINISHED ROOF SURFACE. INSTALL A LIQUID-APPLIED FLASHING SYSTEM BY THE MANUFACTURER OF THE ROOF MEMBRANE AT PIPE PENETRATIONS.
- 1.5 ENGINEERING:** CONTRACTOR TO COMPLETE FULL TESTS OF THE PROPOSED ROOF SYSTEM PER THE IBC CRITERIA. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE TESTED NOA FOR EACH ROOF WIND ZONE. SUBMIT THE FULL TEST RESULTS AND THE ENGINEERED COVER BOARD FASTENER SPACING CALCULATIONS TO THE ARCHITECT AND MANUFACTURER FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE STRUCTURAL DRAWINGS FOR WIND UPLIFT PRESSURES.
- 1.6 NEW MODIFIED BITUMEN ROOFING MEMBRANE ASSEMBLY:** REMOVE EXISTING WOOD BLOCKING AND INSTALL NEW WOOD BLOCKING AND SIZED AS REQUIRED TO ACCOMMODATE THICKNESS OF THE NEW ROOF SYSTEM. SECURE NEW WOOD BLOCKING WITH NEW #14 SHEET METAL SCREWS AT 6" O.C. TO EXISTING STRUCTURAL METAL FRAMING. INSTALL TWO LAYERS OF FLAT POLYISOCYANURATE TO MEET A THERMAL RESISTANCE OF R-50. MECHANICALLY ATTACH A CEMENTITIOUS COVER BOARD THROUGH THE POLYISOCYANURATE INSULATION INTO THE METAL DECK TO MEET OR EXCEED PROJECT WIND UPLIFT CRITERIA. PRIME COVER BOARD AS REQUIRED BY ROOF MEMBRANE MANUFACTURER AND TORCH ONE PLY OF SMOOTH SURFACED MODIFIED BITUMEN BASE SHEET OVER THE NEW COVER BOARD. TORCH APPLY A SMOOTH SURFACED MODIFIED BITUMEN INNER PLY OVER BASE SHEET. TORCH APPLY A GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER INNER PLY PER ROOF MEMBRANE MANUFACTURER'S RECOMMENDATIONS. TORCH APPLY ONE SMOOTH SURFACED MODIFIED BITUMEN BASE FLASHING PLY AND LIQUID APPLIED REINFORCED FLASHING WITH EMBEDDED GRANULARS TO MATCH CAP SHEET. SEE DETAIL A3.1. SEE SPECIFICATION SECTION 07216.
- 1.7 ROOF DRAINAGE COMPONENTS:** INSTALL NEW .032\"/>

1.8 METAL EDGE FLASHING INSTALLATION: INSTALL NEW PRE-MANUFACTURED ALUMINUM METAL EDGE FLASHING TO MEET ANSIS (SPR ES) REQUIREMENTS. INSTALL FULLY WELDED/SOLDERED ONE PIECE TRANSITION FLASHINGS AT CORNERS, TRANSITIONS AND TERMINATIONS. RESECURE ALL WOOD BLOCKING PER PROJECT WIND UPLIFT PRESSURES AND ES-1 REQUIREMENTS. PRIME AND PAINT METAL EDGE TO MATCH ADJACENT BUILDING SURFACES.

1.9 COUNTERFLASHING INSTALLATION: REMOVE ALL EXISTING COUNTERFLASHINGS AND WIND CLIPS. FABRICATE AND INSTALL NEW STAINLESS STEEL FLASHINGS WHERE INDICATED AND WHERE REQUIRED FOR A TOTAL ROOFING ASSEMBLY. SOLDER ALL TRANSITION FLASHING JOINTS NOT REQUIRED TO THERMALLY EXPAND AND CONTRACT. SEE SPECIFICATION SECTION 07210.

1.10 ROOF WALK PADS: INSTALL NEW MODIFIED BITUMEN ROOF WALKWAY PADS AT DESIGNATED LOCATIONS. COLOR OF NEW WALKPADS TO BE SELECTED BY OWNER IN FIELD.

2.0 EXISTING SKYLIGHT ASSEMBLIES:

2.1 SKYLIGHT REMOVAL: REMOVE ALL SKYLIGHT COMPONENTS FROM THE EXISTING BUILDING STRUCTURE. SKYLIGHT COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO SKYLIGHT FRAMES, GLAZING, FLASHINGS, GUTTER SYSTEMS, SEALANTS AND FASTENERS. NOTIFY ARCHITECT OF ANY DETERIORATED SKYLIGHT FRAMING.

2.2 SKYLIGHT IN-FILL: INSTALL NEW METAL FRAMING AND NEW METAL DECK OVER EXISTING SKYLIGHT OPENINGS AS SHOWN ON STRUCTURAL DRAWINGS.

2.3 INTERIOR FINISHES: PREPARE, PRIME AND PAINT THE EXPOSED UNDERROOF SURFACES OF ALL NEW STRUCTURAL COMPONENTS TO MATCH ADJACENT INTERIOR FINISHES. PAINT ALL EXPOSED ROOF SYSTEM FASTENERS TO MATCH METAL DECK SURFACES.

3.0 EXPANSION JOINTS:

3.1 NEW EXPANSION JOINT COVER INSTALLATION: INSTALL NEW 22 GAUGE STAINLESS STEEL ROOF AND WALL EXPANSION JOINT COVERS. INSTALL ONE PIECE TRANSITION FLASHINGS WITH ALL SOLDERED / WELDED JOINTS AT ALL TERMINATIONS AND TRANSITIONS WITH ADJACENT BUILDING ENVELOPE COMPONENTS.

4.0 GUARD RAIL INSTALLATION:

4.1 ROOF TOP GUARD RAIL INSTALLATION: AT ALL CURBED ROOF MOUNTED EQUIPMENT WITHIN 10'-0" OF THE PARAPET WALL ASSEMBLY. INSTALL NEW KEEL/GUARD ROOF TOP GUARD RAIL SYSTEM BY KEE SAFETY INC. CONTRACTOR TO PROVIDE SEALED ENGINEERED SHOP DRAWINGS OF GUARDRAIL SYSTEM. SEE ROOF PLANS FOR GUARDRAIL INSTALLATION.

5.0 LIGHTNING PROTECTION COMPONENTS:

5.1 LIGHTNING PROTECTION REINSTALLATION: TEMPORARILY REMOVE ALL EXISTING LIGHTNING AIR TERMINALS AND CABLES FROM THE SIDE SURFACES OF THE EXISTING METAL CORNICE, PARAPET WALLS AND ANY OTHER ROOF SURFACES WHICH ARE ATTACHED TO COMPONENTS DESCRIBED IN THIS SCOPE OF WORK. REINSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA-780 BY A LICENSED CONTRACTOR WITH A MINIMUM 5 YEARS OF EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS. MAINTAIN OPERATION OF LIGHTNING PROTECTION SYSTEM DURING CONSTRUCTION. RE-CERTIFY THE REINSTALLED LIGHTNING PROTECTION SYSTEM.

6.0 ROOF HATCH:

6.1 ROOF HATCH REPLACEMENT: REMOVE EXISTING ROOF HATCH AND INSTALL NEW BLOOD TYPE 5 STAINLESS STEEL ROOF HATCH. INSTALL NEW STAINLESS STEEL LATCHING HARDWARE BY BLOOD AT ROOF HATCH. INSTALL SKIRT FLASHING AT NEW ROOF HATCH AND BASE FLASHING INTERFACE.

NORTH

 1
 A2.1
 EXISTING CONDITIONS ROOF PLAN
 SCALE: 1"=20'-0"

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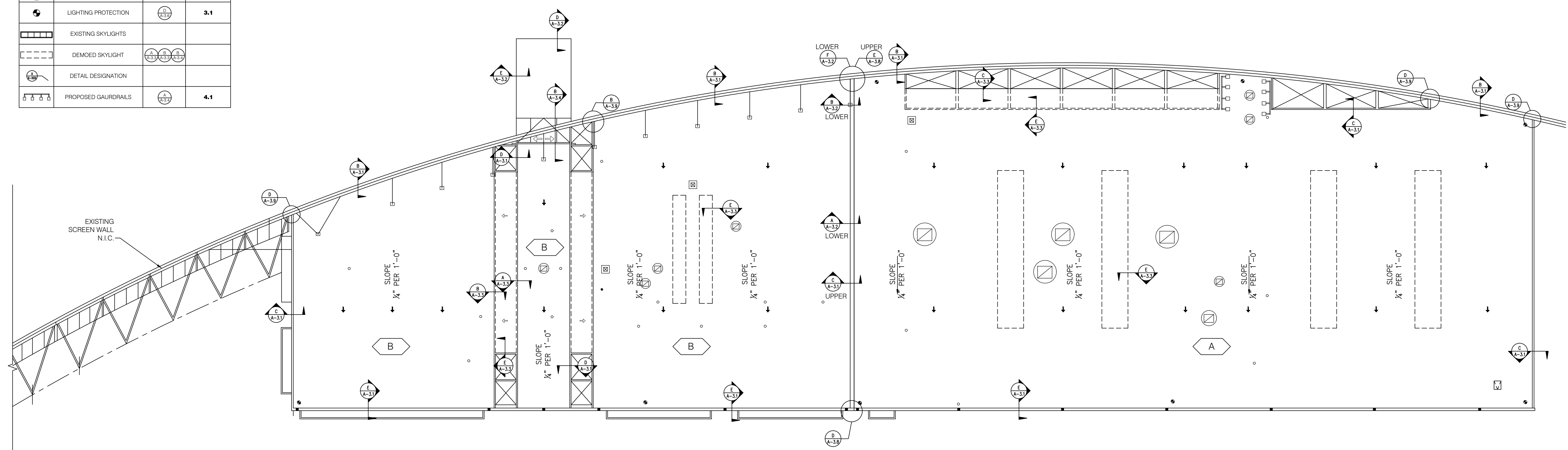
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EXISTING CONDITIONS
 ROOF PLAN
 A2.1

LEGEND			
SYMBOL	DESCRIPTION	DETAIL	SCOPE OF WORK ITEM
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	GUTTER WITH DOWNSPOUT		1.0, 2.0
	EXISTING STRUCTURAL ROOF SLOPE		1.0, 2.0
	TAPERED INSULATION		
	DOWNSPOUT DESIGNATION		1.0, 2.0
	ROOFING ASSEMBLY TYPE 1: NEW LOW-SLOPE MODIFIED BITUMEN ROOFING ASSEMBLY		1.0
	DETAIL DESIGNATION		
	NOT IN CONTRACT		
	ROOF AREA DESIGNATION		
	ROOF ACCESS DOOR		4.1
	EXHAUST VENT		1.0, 2.0
	CONDUIT PENETRATION		1.0, 2.0
	PLUMBING VENT		1.0, 2.0
	DIAGONAL BRACING		1.0
	LIGHTING PROTECTION		3.1
	EXISTING SKYLIGHTS		
	DEMOED SKYLIGHT		
	DETAIL DESIGNATION		
	PROPOSED GAURDRAILS		4.1

**ROOFING ASSEMBLY TYPE 1:
PROPOSED NEW LOW-SLOPE ROOFING ASSEMBLY**

ROOFING COMPONENT	STRUCTURAL DECK	INSULATION	COVER BOARD	ROOF MEMBRANE	FLASHINGS	DRAINAGE
	METAL DECK	R-25 FLAT AND 1-PER FOOT NET TAPERED POLYISOCYANURATE INSULATION	1/2" DECK PRIME	GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER TWO SMOOTH SURFACED MODIFIED BITUMEN CAP SHEETS TORCH APPLIED	STAINLESS STEEL AND PRE-PANDED ALUMINUM	PRIMARY ROOF EDGE GUTTERS SECONDARY EXISTING ROOF EDGE



SCOPE OF WORK:

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1.1 ROOFING REMOVAL: REMOVE THE EXISTING ROOF SYSTEM DOWN TO THE TOP SURFACE OF THE EXISTING STRUCTURAL METAL DECK. REMOVE ANY DAMAGED OR DETERIORATED METAL DECK. REMOVE ALL ASBESTOS CONTAINING MATERIALS AND PROPERLY DISPOSE OF ACCORDING TO OWNER AND CURRENT GOVERNMENTAL REQUIREMENTS. OBTAIN ASBESTOS SURVEY REPORT FROM ORANGE COUNTY GOVERNMENT PRIOR TO DEMOLITION. THE ROOFING COMPONENTS TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO ALL EXISTING COATING, MODIFIED BITUMEN ROOF MEMBRANES, COVER BOARD, SINGLE PLY ROOF MEMBRANE, RIGID POLYISOCYANURATE INSULATION, METAL FLASHINGS, RELATED FASTENERS, AND CAITS.
1.2 TEMPORARY REMOVAL: TEMPORARILY REMOVE THE FOLLOWING COMPONENTS AND REINSTALL DURING THE ROOFING REPLACEMENT PROJECT AS REQUIRED TO PROVIDE A WATER TIGHT INSTALLATION. REPAIR OR REPLACE THE COMPONENTS AS REQUIRED TO MEET OR EXCEED THE LEVEL OF PERFORMANCE THAT WAS PRESENT PRIOR TO REMOVAL OF THE COMPONENT. COMPONENTS INCLUDE ELECTRICAL, JUNCTION BOXES, OUTLETS, CONDUITS, ANTENNAS, SECURITY CAMERAS, ROOF MOUNTED LIGHTS, POWER VENTS, ELEVATED HVAC EQUIPMENT AND OTHER MISCELLANEOUS ELECTRICAL COMPONENTS. REINSTALL EXISTING COMPONENTS AFTER THE INSTALLATION OF NEW ROOFING ASSEMBLY COMPONENTS.
- 1.3 EXISTING SKYLIGHT CURBS:** REMOVE EXISTING DESIGNATED SKYLIGHTS FROM ROOF SURFACES. SEE STRUCTURAL DRAWINGS FOR DECK AND FRAMING INSTALLATION. INSTALL RIGID INSULATION AND COVER BOARD FLUSH TO ADJACENT ROOF SURFACE AS SHOWN ON APPROVED DRAWINGS.
- 1.4 PIPE PENETRATIONS AND EQUIPMENT:** WHERE DESIGNATED ON THE DRAWINGS TO REMAIN, REMOVE METAL AND MEMBRANE FLASHINGS AT THE EXISTING PLUMBING VENTS. EXTEND EXISTING PLUMBING VENTS AS REQUIRED TO MAINTAIN A MINIMUM HEIGHT OF 8 INCHES ABOVE THE NEW FINISHED ROOF SURFACE. INSTALL A LIQUID-APPLIED FLASHING SYSTEM BY THE MANUFACTURER OF THE ROOF MEMBRANE AT PIPE PENETRATIONS.
- 1.5 ENGINEERING:** CONTRACTOR TO COMPLETE FULL TESTS OF THE PROPOSED ROOF SYSTEM PER AS-101 CRITERIA. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE TESTED NOA FOR EACH ROOF WIND ZONE. SUBMIT THE FULL TEST RESULTS AND THE ENGINEERED COVER BOARD FASTENER SPACING CALCULATIONS TO THE ARCHITECT AND MANUFACTURER FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. (SEE STRUCTURAL DRAWINGS FOR WIND UPLIFT PRESSURES).
- 1.6 NEW MODIFIED BITUMEN ROOFING MEMBRANE ASSEMBLY:** REMOVE EXISTING WOOD BLOCKING AND INSTALL NEW WOOD BLOCKING AND SIZE AS REQUIRED TO ACCOMMODATE THICKNESS OF THE NEW ROOF SYSTEM. SECURE NEW WOOD BLOCKING WITH NEW #14 SHEET METAL SCREWS AT R/O.C. TO EXISTING STRUCTURAL METAL FRAMING. INSTALL TWO LAYERS OF FLAT POLYISOCYANURATE TO MEET A THERMAL RESISTANCE OF R-25. MECHANICALLY ATTACH A CONTINUOUS COVER BOARD THROUGH THE POLYISOCYANURATE INSULATION INTO THE METAL DECK TO MEET OR EXCEED PROJECT WIND UPLIFT CRITERIA. PRIME COVER BOARD AS REQUIRED BY ROOF MEMBRANE MANUFACTURER AND TORCH ONE PLY OF SMOOTH SURFACED MODIFIED BITUMEN BASE SHEET OVER THE NEW COVER BOARD. TORCH APPLY A SMOOTH SURFACED MODIFIED BITUMEN INNER-PLY OVER BASE SHEET. TORCH APPLY A GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER INNER PLY PER ROOF MEMBRANE MANUFACTURER'S RECOMMENDATIONS. TORCH APPLY ONE SMOOTH SURFACED MODIFIED BITUMEN BASE FLASHING PLY AND LIQUID APPLIED REINFORCED FLASHING WITH EMBEDDED GRANULARS TO MATCH CAP SHEET. SEE DETAIL A-31. SEE SPECIFICATION SECTION 051616.
- 1.7 ROOF DRAINAGE COMPONENTS:** INSTALL NEW 26# MILL FINISHED ALUMINUM GUTTERS AND DOWNSPOUTS SIZED TO MEET CURRENT BUILDING CODE REQUIREMENTS. NEW GUTTER SYSTEM TO MEET ANSI/SPRI ES-1 REQUIREMENTS. PRIME AND PAINT GUTTER DOWNSPOUTS TO MATCH ADJACENT BUILDING SURFACES. PROVIDE NEW SPLASH BLOCKS WHERE DOWNSPOUT DOES NOT CONNECT TO SUBGRADE OPEN LINE.
- 1.8 METAL EDGE FLASHING INSTALLATION:** INSTALL NEW PRE-MANUFACTURED ALUMINUM METAL EDGE FLASHING TO MEET ANSI/SPRI ES-1 REQUIREMENTS. INSTALL FULLY WELDED/SOLDERED ONE-PIECE TRANSITION FLASHINGS AT CORNERS, TRANSITIONS AND TERMINATIONS. RESECURE ALL WOOD BLOCKING PER PROJECT WIND UPLIFT PRESSURES AND ES-1 REQUIREMENTS. PRIME AND PAINT METAL EDGE TO MATCH ADJACENT BUILDING SURFACES.
- 1.9 COUNTERFLASHING INSTALLATION:** REMOVE ALL EXISTING COUNTERFLASHINGS AND WIND CLIPS. FABRICATE AND INSTALL NEW STAINLESS STEEL FLASHINGS WHERE INDICATED AND WHERE REQUIRED FOR A TOTAL ROOFING ASSEMBLY. SOLDER ALL TRANSITION FLASHING JOINTS NOT REQUIRED TO THERMALLY EXPAND AND CONTRACT. SEE SPECIFICATION SECTION 05000.
- 1.10 ROOF WALK PADS:** INSTALL NEW MODIFIED BITUMEN ROOF WALKWAY PADS AT DESIGNATED LOCATIONS. COLOR OF NEW WALKPADS TO BE SELECTED BY OWNER IN FIELD.
- 2.0 EXISTING SKYLIGHT ASSEMBLIES:**
2.1 SKYLIGHT REMOVAL: REMOVE ALL SKYLIGHT COMPONENTS FROM THE EXISTING BUILDING STRUCTURE. SKYLIGHT COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO SKYLIGHT FRAMES, GLAZING, FLASHINGS, GUTTER SYSTEMS, SEALANTS AND FASTENERS. NOTIFY ARCHITECT OF ANY DETERIORATED SKYLIGHT FRAMING.
2.2 SKYLIGHT INFILL: INSTALL NEW METAL FRAMING AND NEW METAL DECK OVER EXISTING SKYLIGHT OPENINGS AS SHOWN ON STRUCTURAL DRAWINGS.
2.3 INTERIOR FINISHES: PREPARE, PRIME AND PAINT THE EXPOSED UNDERSIDE SURFACES OF ALL NEW STRUCTURAL COMPONENTS TO MATCH ADJACENT INTERIOR FINISHES. PAINT ALL EXPOSED ROOF SYSTEM FASTENERS TO MATCH METAL DECK SURFACES.
- 3.0 EXPANSION JOINTS:**
3.1 NEW EXPANSION JOINT COVER INSTALLATION: INSTALL NEW 22 GAUGE STAINLESS STEEL ROOF WALL DIVISION JOINT COVERS. INSTALL ONE-PIECE TRANSITION FLASHINGS WITH ALL SOLDERED/WELDED JOINTS AT ALL TERMINATIONS AND TRANSITIONS WITH ADJACENT BUILDING ENVELOPE COMPONENTS.
- 4.0 GUARD RAIL INSTALLATION:**
4.1 ROOF TOP GUARD RAIL INSTALLATION: AT ALL CURBED ROOF MOUNTED EQUIPMENT WITHIN 10'-0" OF THE PARAPET WALL ASSEMBLY, INSTALL NEW KEEP GUARD ROOF TOP GUARD RAIL SYSTEM BY KEE SAFETY INC. CONTRACTOR TO PROVIDE SEALED ENGINEERED SHOP DRAWINGS OF GUARDRAIL SYSTEMS. SEE ROOF PLAN FOR GUARDRAIL INSTALLATION.
- 5.0 LIGHTNING PROTECTION COMPONENTS:**
5.1 LIGHTNING PROTECTION REINSTALLATION: TEMPORARILY REMOVE ALL EXISTING LIGHTNING AIR TERMINALS AND CABLES FROM THE SIDE SURFACES OF THE EXISTING METAL CORNERS, PARAPET WALLS AND ANY OTHER ROOF SURFACES WHICH ARE ATTACHED TO COMPONENTS DESCRIBED IN THIS SCOPE OF WORK. REINSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA-780 BY A LICENSED CONTRACTOR WITH A MINIMUM 5 YEARS OF EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS. MAINTAIN OPERABILITY OF LIGHTNING PROTECTION SYSTEM DURING CONSTRUCTION. RE-CERTIFY THE RE-INSTALLED LIGHTNING PROTECTION SYSTEM.
- 6.0 ROOF HATCH:**
6.1 ROOF HATCH REPLACEMENTS: REMOVE EXISTING ROOF HATCH AND INSTALL NEW BLOCO TYPE 3 STAINLESS STEEL ROOF HATCH. INSTALL NEW STAINLESS STEEL LATCHING HARDWARE BY BLOCO AT ROOF HATCH. INSTALL SKIRT FLASHING AT NEW ROOF HATCH AND BASE FLASHING INTERFACE.

NORTH

1
A2.2
PROPOSED ROOF PLAN
 SCALE: 1"=20'-0"

CONSTRUCTION DOCUMENTS
 ORANGE COUNTY GOVERNMENT
 SOLID WASTE ADMINISTRATION BUILDING
 ORLANDO, FLORIDA
 ROOFING REPLACEMENT PROJECT
 PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC.
 3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779
 (407) 333-1977 • FAX: (407) 333-6686 • E-MAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: NHR PROJECT NUMBER: 18-093
 APPROVED BY: JDA PHASE: CONSTRUCTION DOCS
 ENGINEER: DATE: MAY 8, 2019

PROPOSED
 ROOF PLAN
A2.2
 PLOT: 1"=20' SHEET

LEGEND:

- PARAPET WALL
- ROOF EDGE
- ROOF AREA DESIGNATION
- ZONE NUMBER
- LINE OF WIND ZONE

WIND PRESSURES:

WIND DESIGN FOR ROOFING COMPONENTS AND CLADDING:
 ASCE 7-10, V_W=150 mph wind, V_W=115 mph wind, category III.
 Exposure "C", K_d = 0.85, h = VARIES FL ENCLOSED BUILDING; GCFL = ± 0.18.
 (VALUES USED TO MEET FM 1-28 "WIND DESIGN" FOR 1-90 WIND RATING)
 WIND UPLIFT PRESSURES SHOWN ARE GROSS PRESSURES FOR CORNER ZONE, EDGE ZONE, AND FIELD ZONE FOR ROOF COMPONENTS AND CLADDING (C & C). AREA ≤ 10 SF. WIND HAS BEEN CHECKED FOR AN ENCLOSED STRUCTURE AT EACH ROOF SLOPE AND HIGHEST WIND PRESSURES ARE SHOWN FOR EACH AREA.
 FLORIDA BUILDING CODE 2017 ASCE 7-10.

WIND PRESSURES ROOF AREA A

WIND UPLIFT PRESSURE LEGEND:	ASCE 7-10 ROOF C & C DESIGN PRESSURES
ROOF AREAS A - HEIGHT - 30'-0"	
ZONE 1 - FIELD ZONE ①	-34.1 PSF
ZONE 2 - EDGE ZONE ②	-57.2 PSF
ZONE 3 - CORNER ZONE ③	-86.6 PSF

DEPTH OF PERIMETER AND CORNER ZONES FROM ROOF EDGE - 1/2 DIMENSION IS 12 FEET U.N.O.

WIND PRESSURES FOR ROOF AREA B

WIND UPLIFT PRESSURE LEGEND:	ASCE 7-10 ROOF C & C DESIGN PRESSURES
ROOF AREAS B - HEIGHT - 20'-0"	
ZONE 1 - FIELD ZONE ①	-31.3 PSF
ZONE 2 - EDGE ZONE ②	-52.5 PSF
ZONE 3 - CORNER ZONE ③	-79.0 PSF

DEPTH OF PERIMETER AND CORNER ZONES FROM ROOF EDGE - 1/2 DIMENSION IS 8 FEET U.N.O.

WIND PRESSURES FOR PERIMETER EDGE METAL:

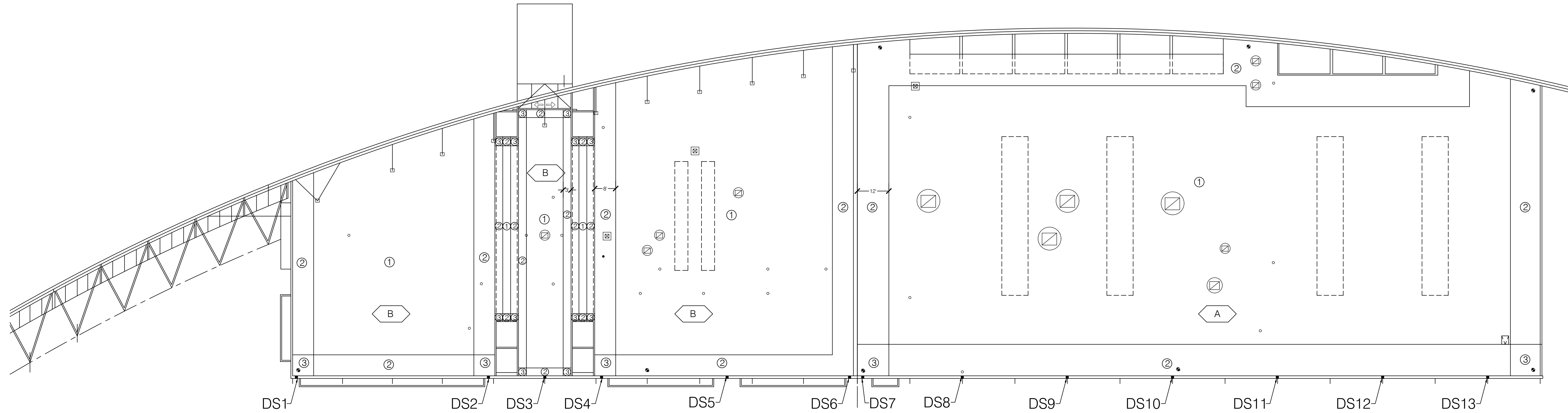
WIND UPLIFT PRESSURE LEGEND:	ASCE 7-10 ROOF C & C DESIGN PRESSURES
ALL ROOF AREAS	
ZONE 2 - ROOF EDGE PERIMETER - VERTICAL LOAD DIRECTION	-57.0 PSF
ZONE 3 - ROOF EDGE CORNERS - VERTICAL LOAD DIRECTION	-85.8 PSF
ZONE 4 - WALL EDGE PERIMETER - HORIZONTAL LOAD DIRECTION	-36.9 PSF
ZONE 5 - WALL EDGE CORNERS - HORIZONTAL LOAD DIRECTION	-45.5 PSF

ROOF DRAINAGE CALCULATIONS - EXISTING ROOF DRAINS

ROOF DRAIN/SCUPPER TRIBUTARY DESIGNATION	PRIMARY ROOF DOWNSPOUT SIZE	SECONDARY OVERFLOW DRAINAGE DESIGNATION	ROOF AREA (SQ. FT.)	ADDITIONAL ROOF AREA (SQ. FT.)	WALL AREA (SQ. FT.)	TOTAL TRIBUTARY AREA
DS1	4" DIAMETER	N/A	3294	0	800	3694
DS2	4" DIAMETER	N/A	4369	0	800	4769
DS3	4" DIAMETER	N/A	2768	0	0	2768
DS4	4" DIAMETER	N/A	4002	0	600	4302
DS5	4" DIAMETER	N/A	5362	0	800	5762
DS6	4" DIAMETER	N/A	3343	0	600	3943
DS7	5" DIAMETER	N/A	3429	0	80	3499
DS8	5" DIAMETER	N/A	4282	0	0	4282
DS9	5" DIAMETER	N/A	5005	0	0	5005
DS10	5" DIAMETER	N/A	5267	0	0	5267
DS11	5" DIAMETER	N/A	5284	0	0	5284
DS12	5" DIAMETER	N/A	4623	0	0	4623
DS13	5" DIAMETER	N/A	4721	0	120	4781

ROOF DRAINAGE LEGEND

SYMBOL	DESCRIPTION
DS #0	PRIMARY ROOF DOWNSPOUT



CONSTRUCTION DOCUMENTS
 ORANGE COUNTY GOVERNMENT
 SOLID WASTE ADMINISTRATION BUILDING
 ORLANDO, FLORIDA
 ROOFING REPLACEMENT PROJECT
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NUMBER	TYPE	DATE

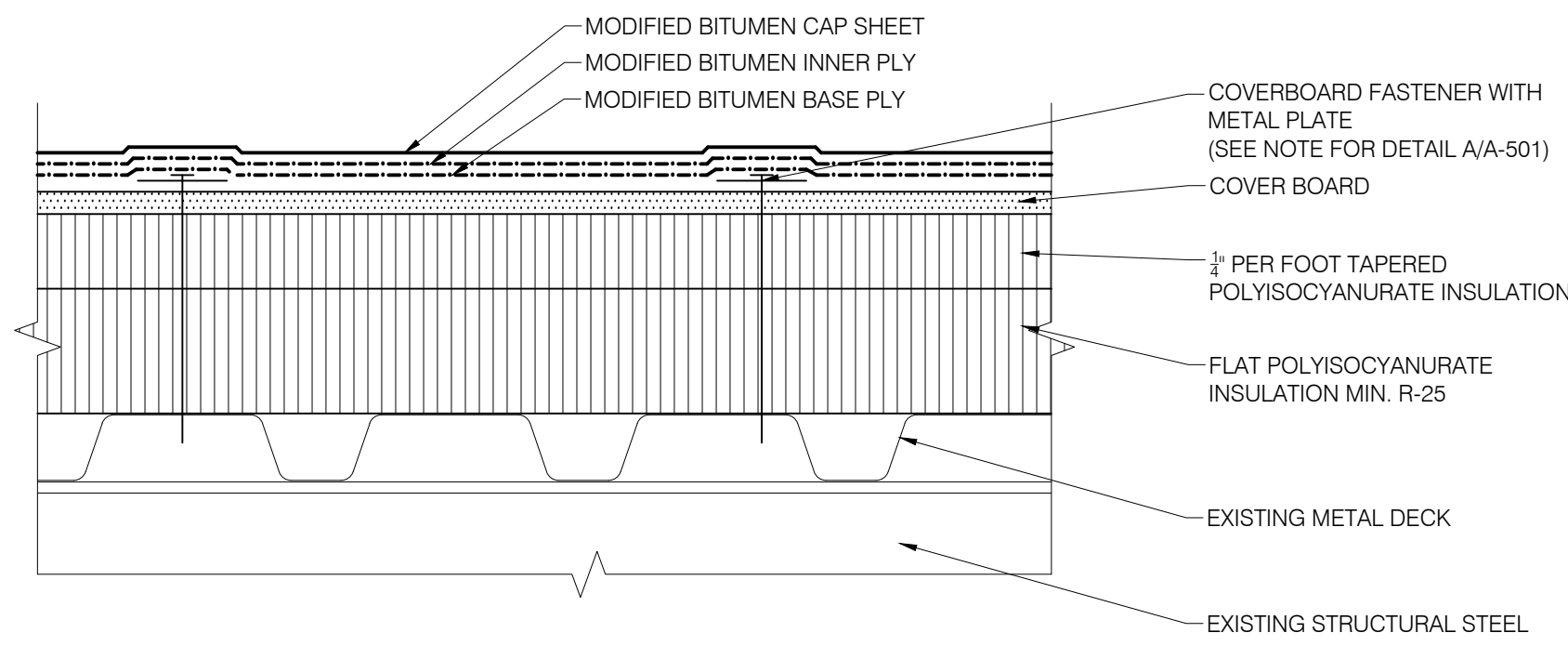
REVISIONS

DRAWN BY: NHR PROJECT NUMBER: 18-093
 APPROVED BY: JDA PHASE: CONSTRUCTION DOCS
 ENGINEER: DATE: MAY 8, 2019

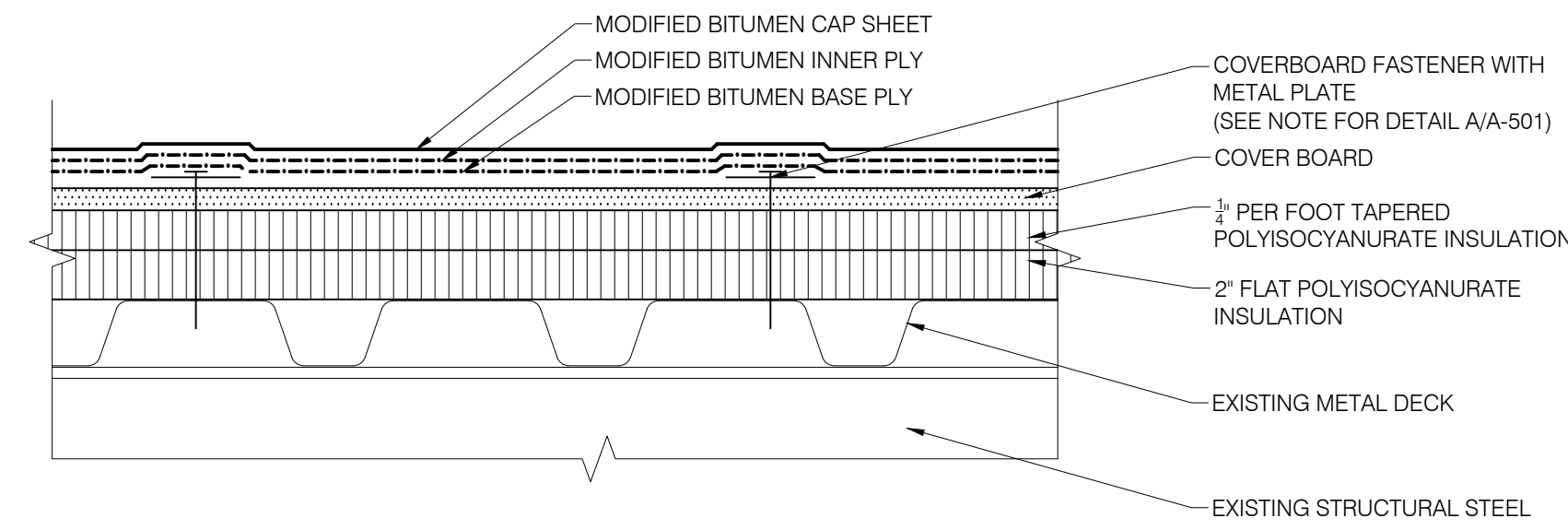
WIND UPLIFT PRESSURE ROOF PLAN
A2.3
 PLOT: 1"=20' SHEET

NOTES:

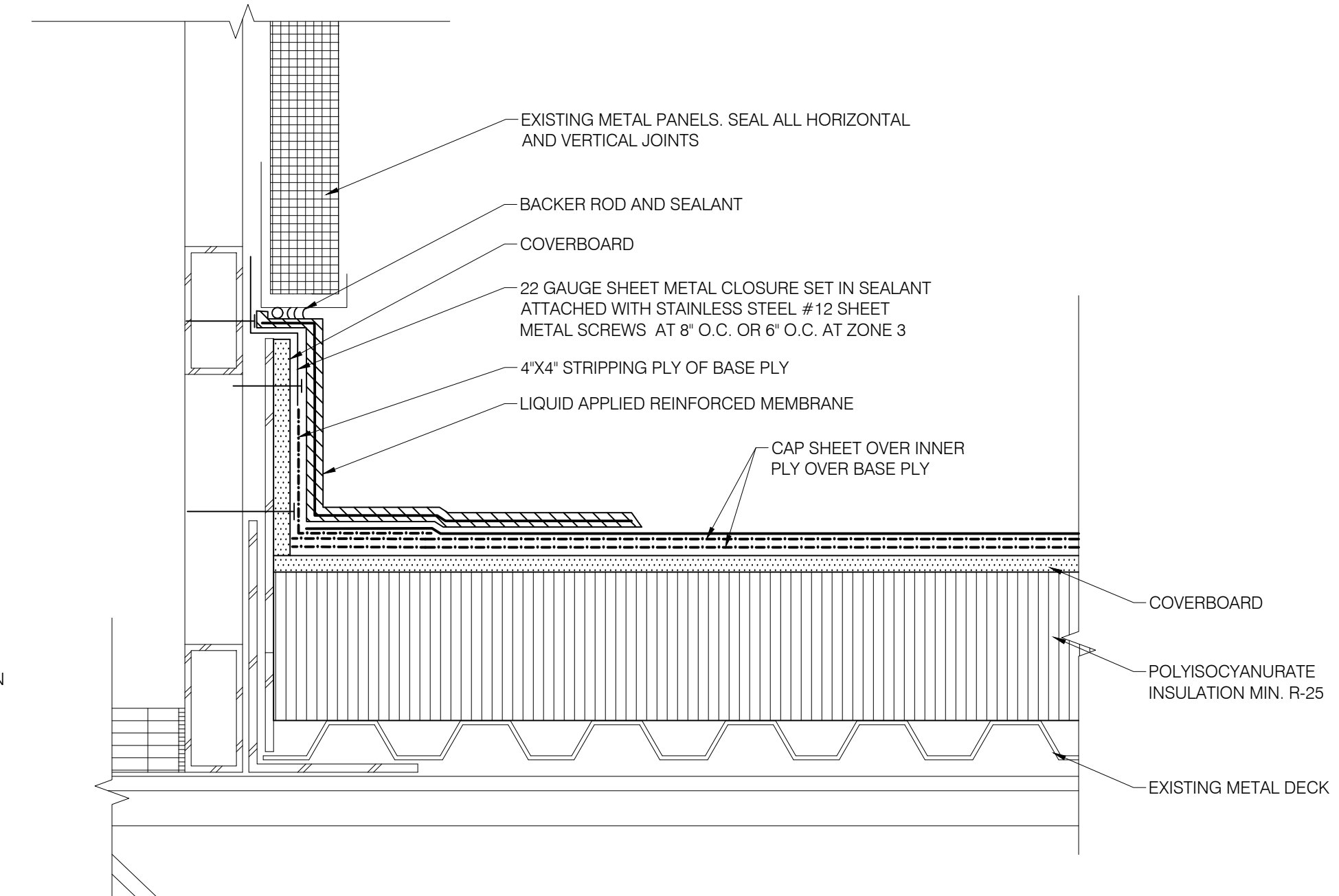
- A. FASTENER TYPE AND SPACING PER MANUFACTURER'S RECOMMENDATIONS / SYSTEM TEST CRITERIA AND DESIGN WIND PRESSURES. PROVIDE PULL TEST REPORT TO MANUFACTURER AND INCLUDE WITHIN SUBMITTALS FOR BUILDING DEPARTMENT REVIEW. ALL FASTENERS TO EXTEND THROUGH EXISTING METAL DECK.
- B. CONTRACTOR TO SUBMIT SEALED ENGINEERED SHOP DRAWINGS FOR ROOF SYSTEM ATTACHMENT PER PROJECT WIND UPLIFT CRITERIA AND PULL TEST RESULTS.
- C. INSTALL ROOF SYSTEM PER SPECIFICATION SECTION 075216 AND SCOPE OF WORK ITEM 1.0
- D. BASIS OF DESIGN: FLORIDA PRODUCT APPROVAL - FL10342-R12



A
A-3.1 TYPICAL ROOF ASSEMBLY
SCALE: NTS



A.1
A-3.1 TYPICAL CANOPY ROOF ASSEMBLY
SCALE: NTS



B
A-3.1 TYPICAL PARAPET WALL SECTION
SCALE: NTS

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000
FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.
COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI. FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLOGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THICK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.
DOWNSPOUT: .040 ALUMINUM, .060 ALUMINUM AT BOTTOM 6", PRIMED AND PAINTED TO MATCH EXISTING.

DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304
EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE 316.

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316
GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316

GUTTER BRACKET: 3/8" X 1" BENT STAINLESS STEEL, TYPE 316
GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304

METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316
METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304.

TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200

ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

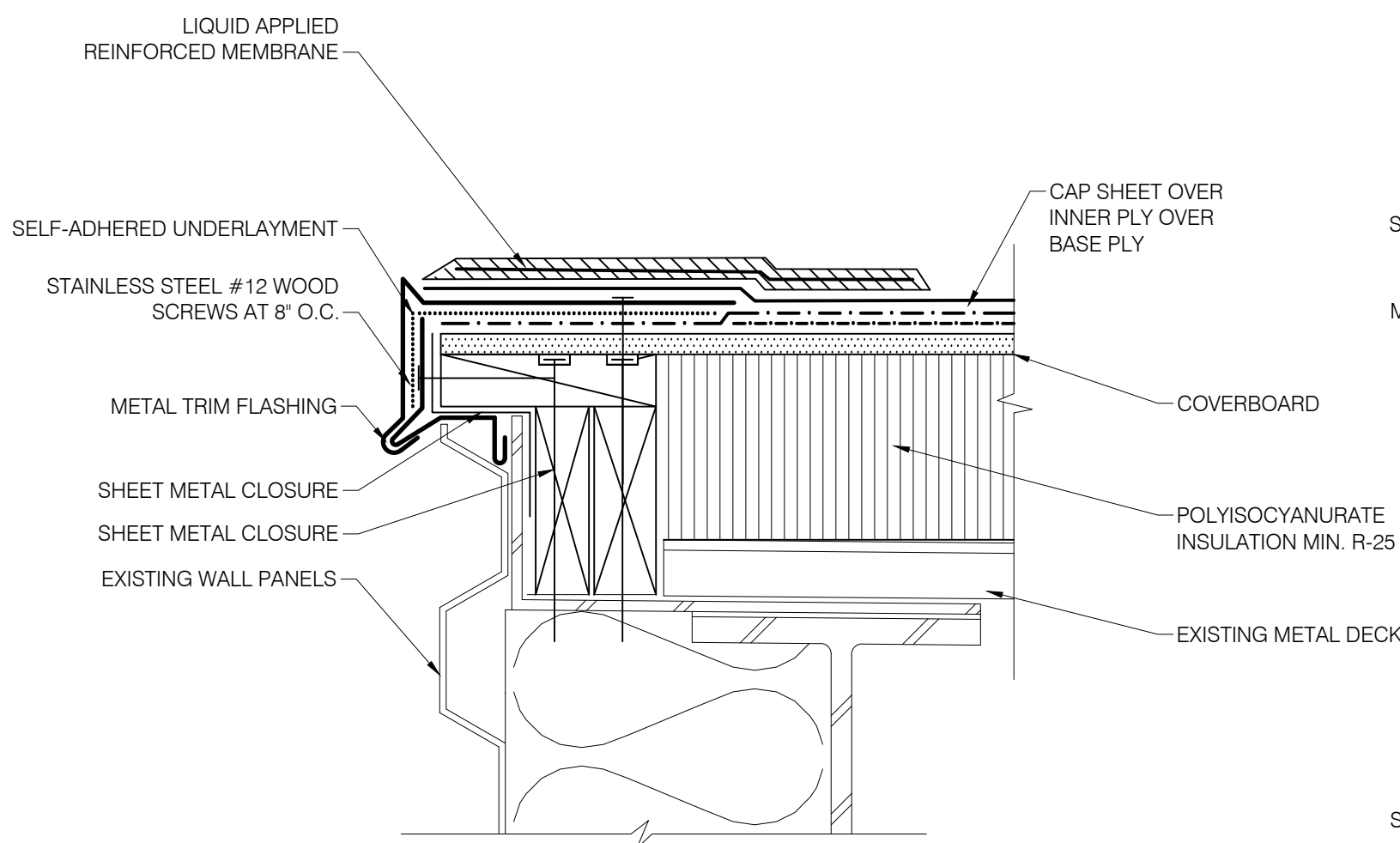
JOINT SEALANTS SPECIFICATION SECTION 07920
BACKER ROD: CLOSED-CELL BACKER ROD.
BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

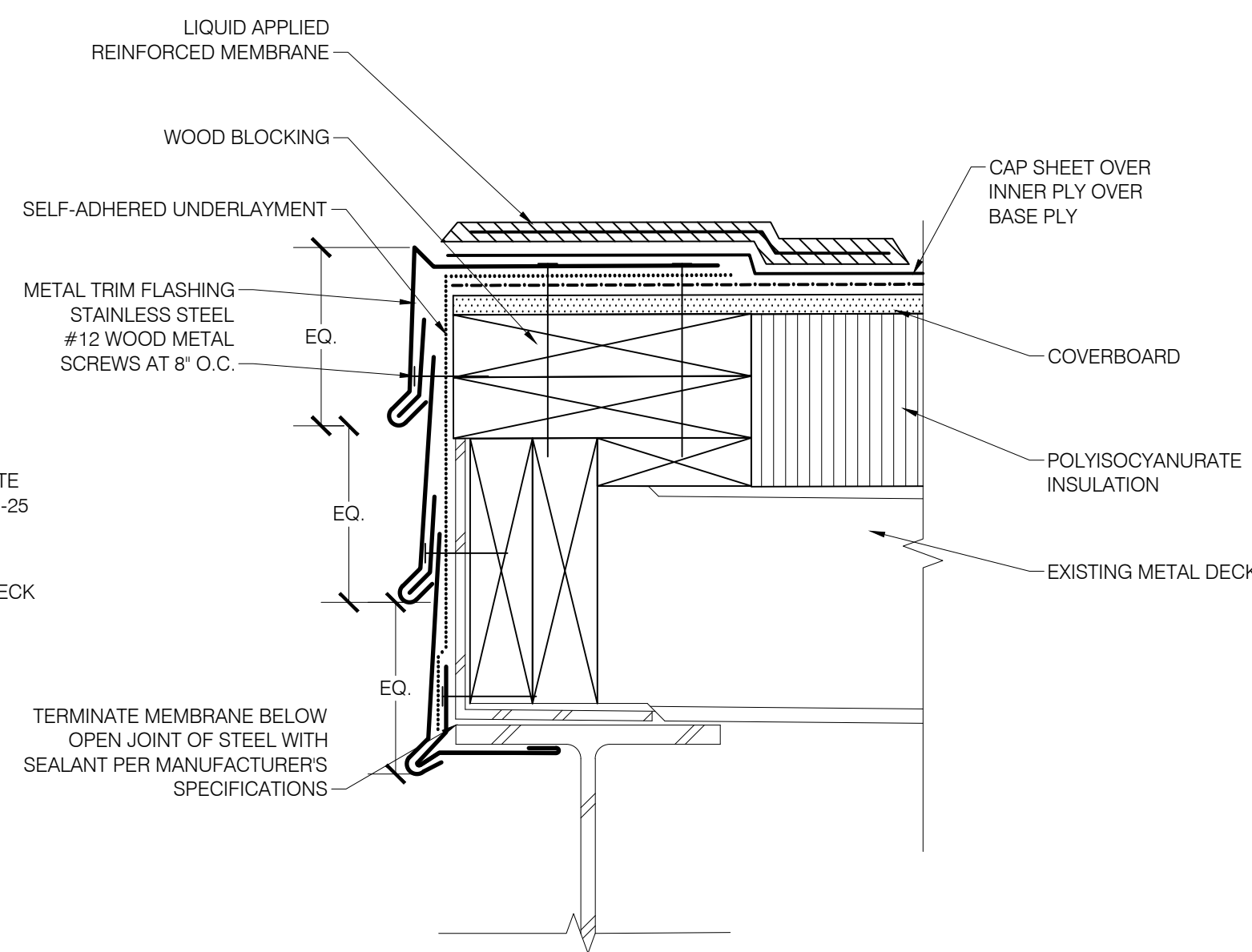
SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

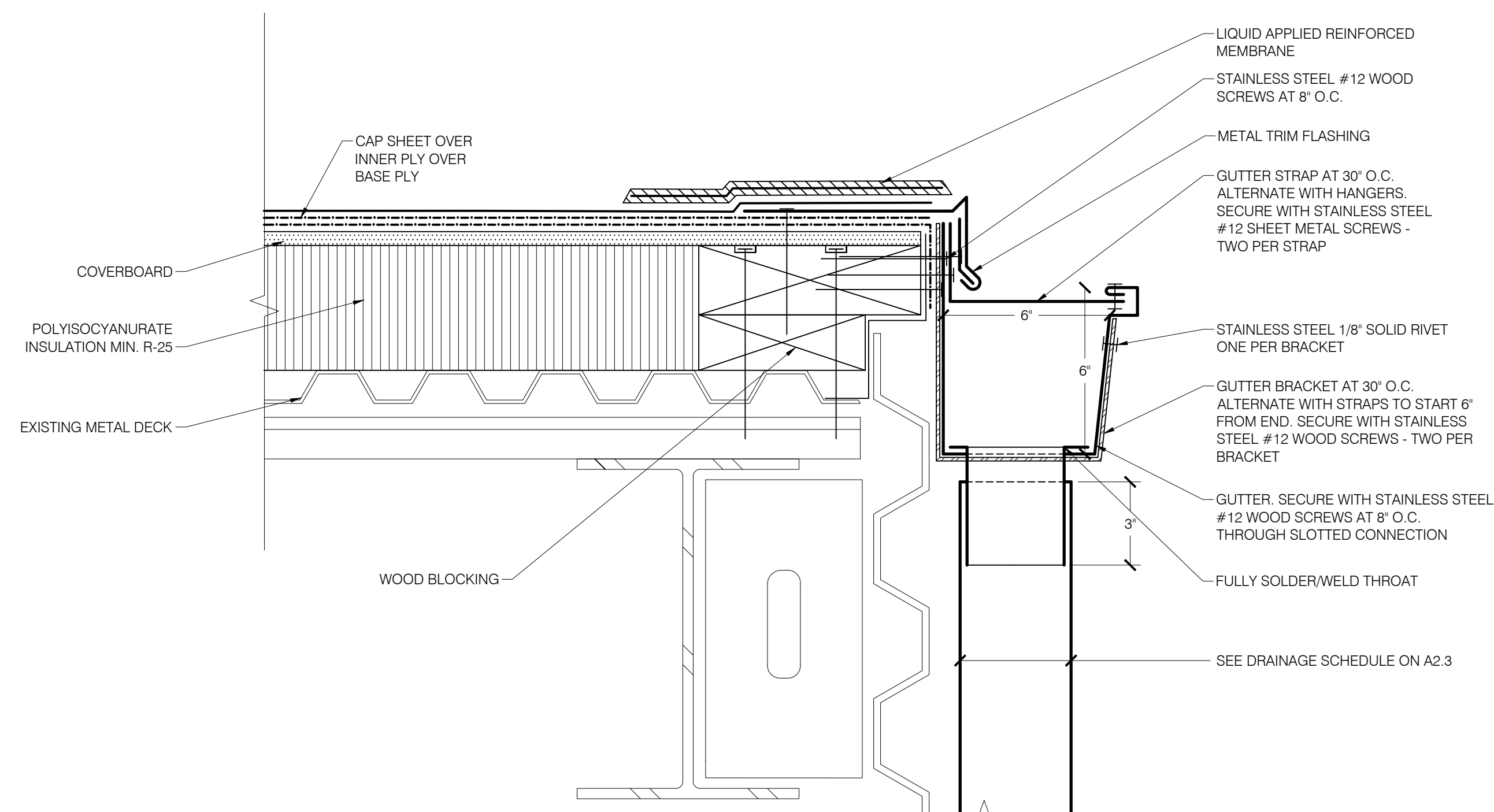
URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.



C
A-3.1 ROOF EDGE DETAIL
TYPICAL EDGE CONDITION
SCALE: NTS



D
A-3.1 ROOF EDGE DETAIL
SCALE: NTS



E
A-3.1 TYPICAL GUTTER EDGE SECTION
SCALE: NTS

CONSTRUCTION DOCUMENTS
ORANGE COUNTY GOVERNMENT
SOLID WASTE ADMINISTRATION BUILDING
ORLANDO, FLORIDA
ROOFING REPLACEMENT PROJECT
PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC.
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REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: NHR PROJECT NUMBER: 18-093
APPROVED BY: JPA PHASE: CONSTRUCTION DOCS
ENGINEER: DATE: MAY 8, 2019

ROOF REPLACEMENT
DETAILS
A3.1

PLOT: 3"=1' SHEET

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000
FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 075216
BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.
BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.
CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.
COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.
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MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.
RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI. FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED, AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.
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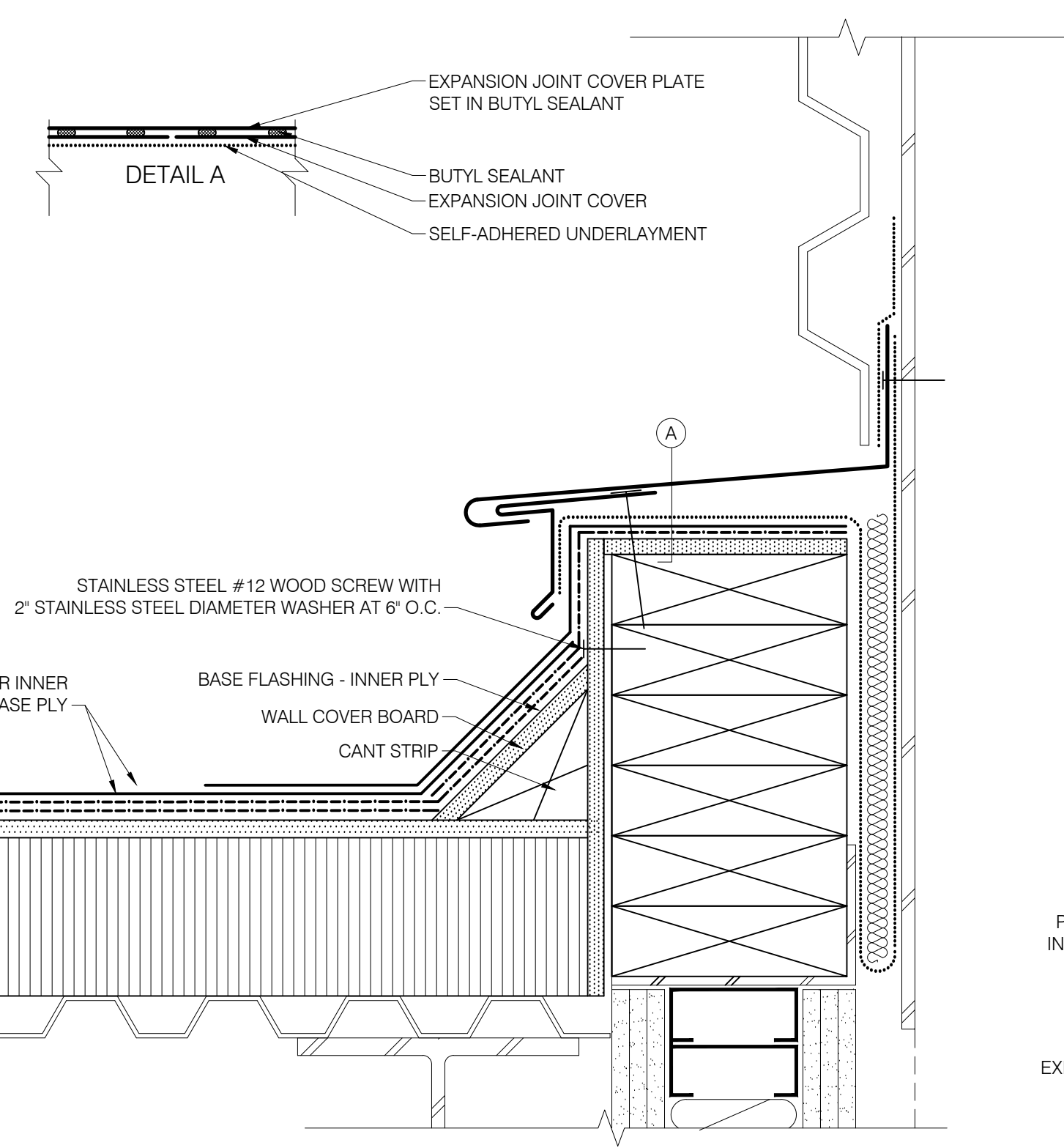
SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLOGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THICK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

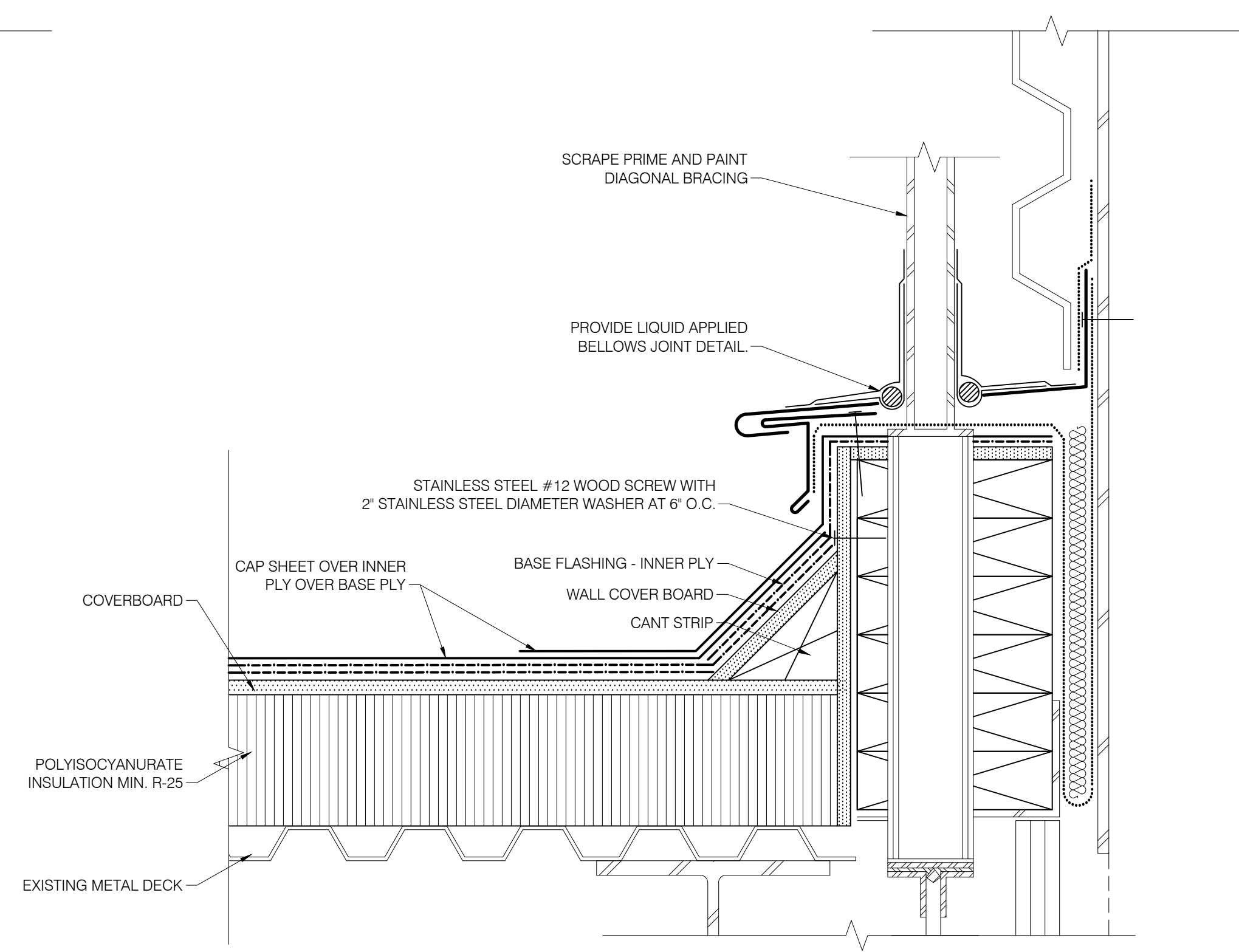
BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.
DOWNSPOUT: .040 ALUMINUM, .060 ALUMINUM AT BOTTOM 6". PRIMED AND PAINTED TO MATCH EXISTING.
DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304
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EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.
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METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
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METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
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TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200
ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

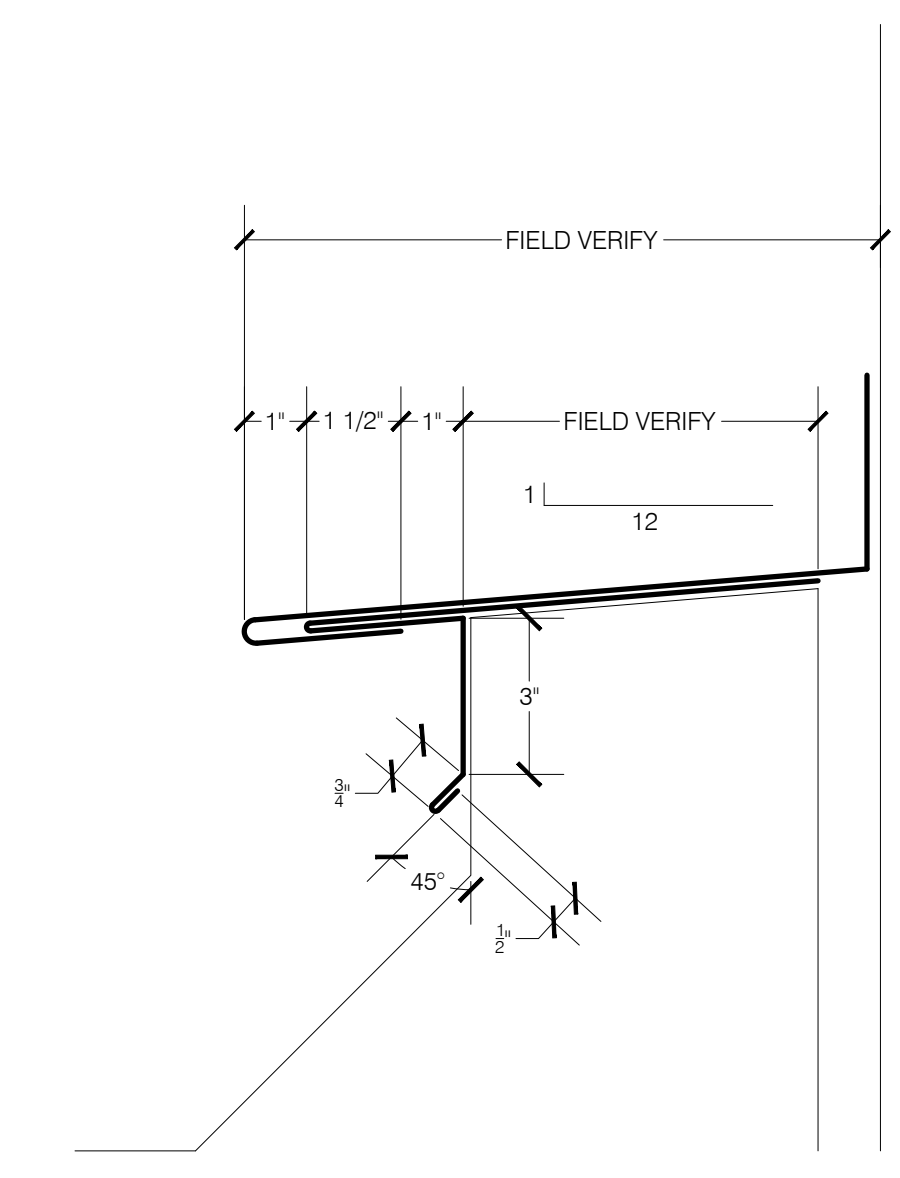
JOINT SEALANTS SPECIFICATION SECTION 07920
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BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.
SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.
SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.
STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.
URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.



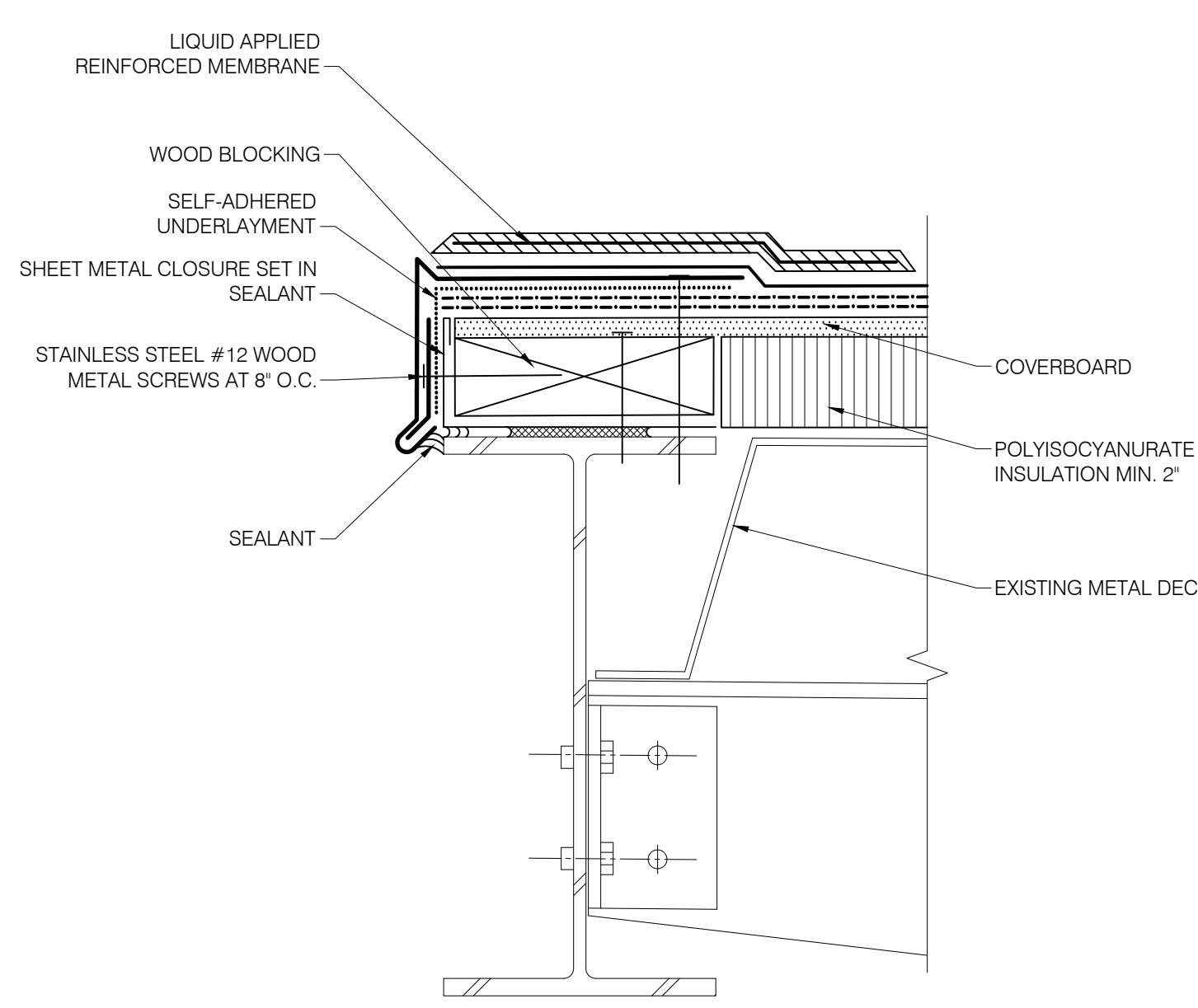
A
A-3.2 EXPANSION JOINT AT COLUMN LINE 12
 SCALE: NTS



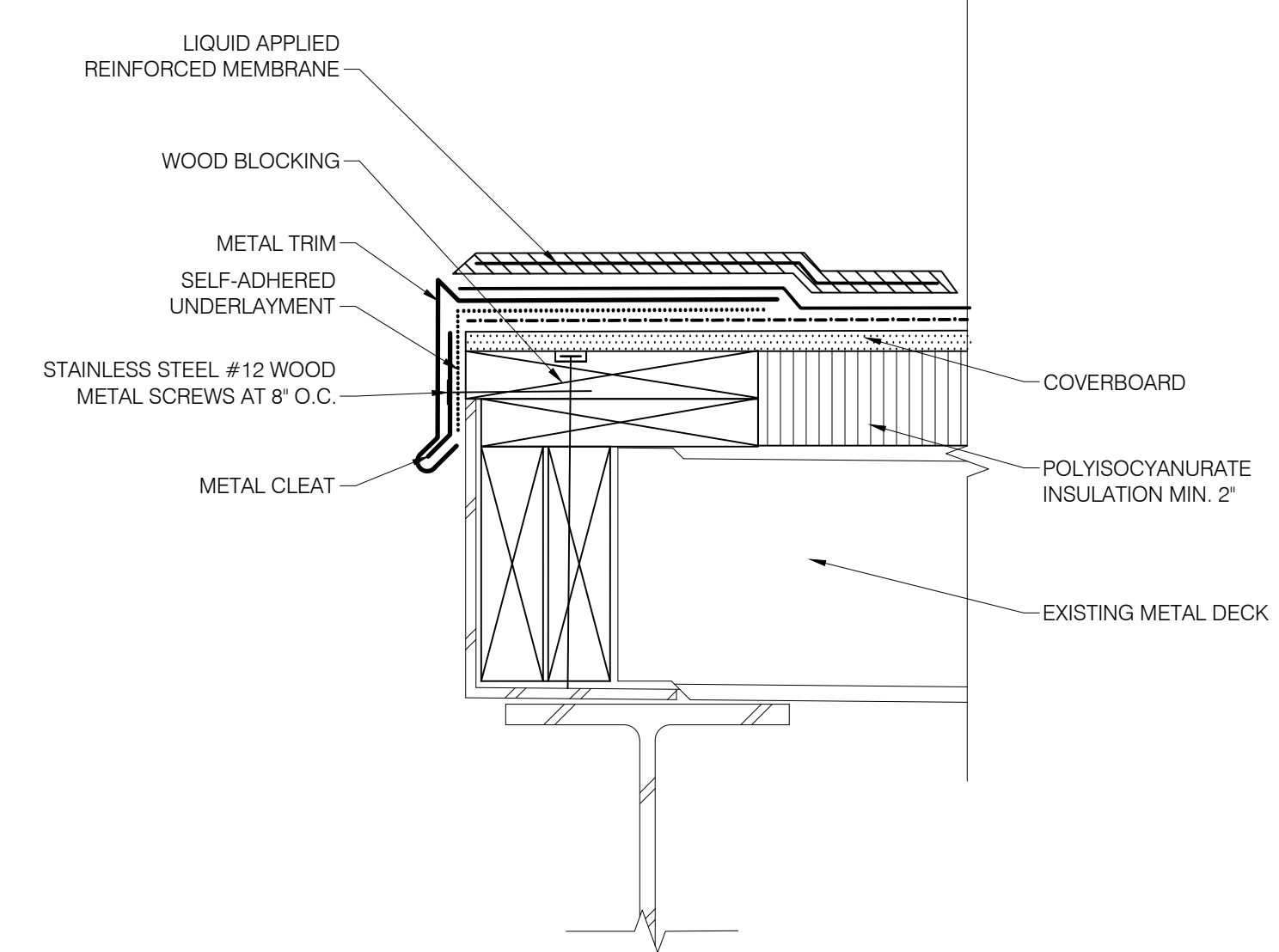
B
A-3.2 EXPANSION JOINT AT DIAGONAL BRACING
 SCALE: NTS



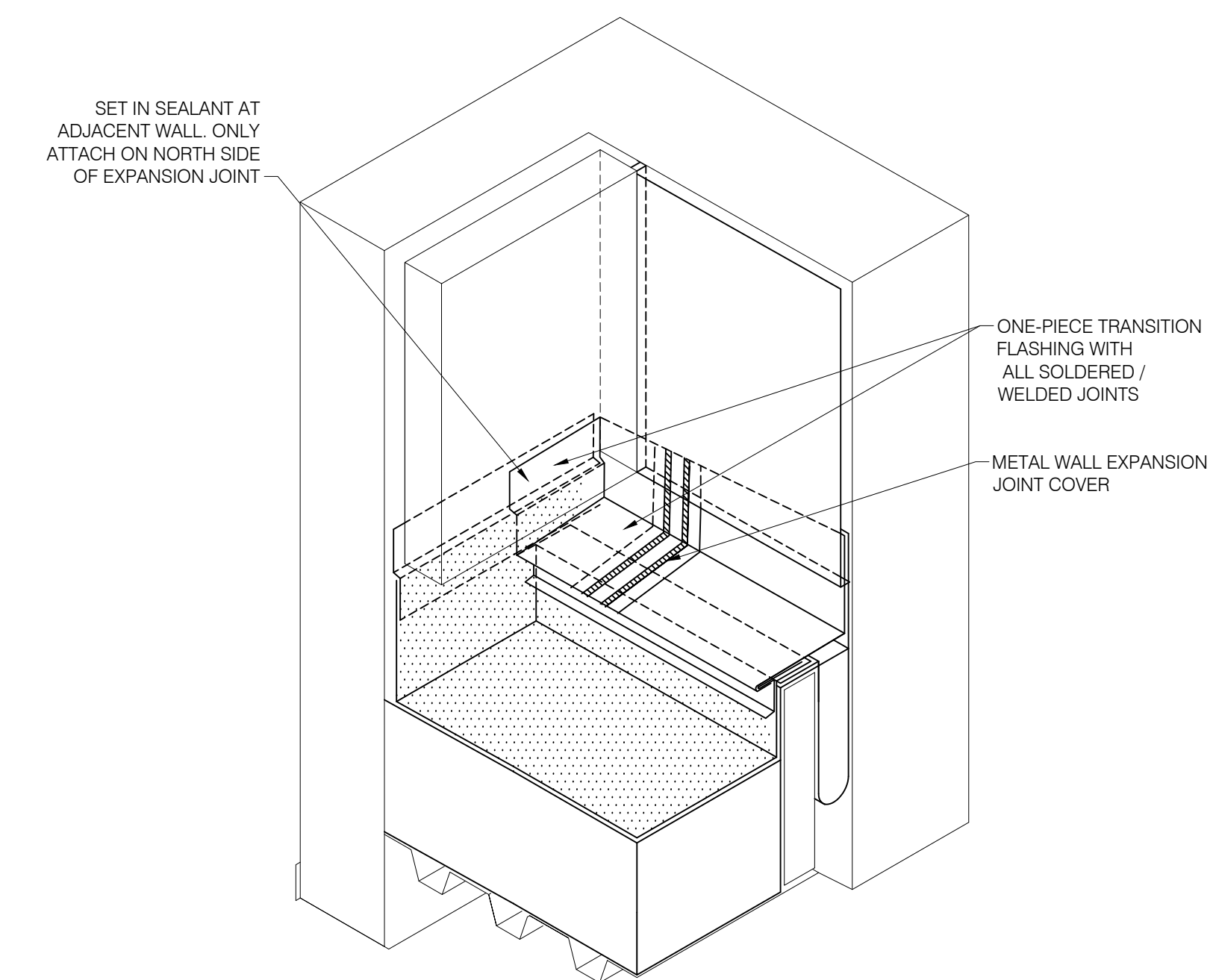
C
A-3.2 ROOF EXPANSION JOINT FRABRICATION
 SCALE: NTS



D
A-3.2 CANOPY ROOF EDGE DETAIL
 SCALE: NTS



E
A-3.2 CANOPY ROOF EDGE DETAIL
 SCALE: NTS



F
A-3.2 INSIDE CORNER ROOF TO WALL EXPANSION JOINT ISOMETRIC
 SCALE: NTS

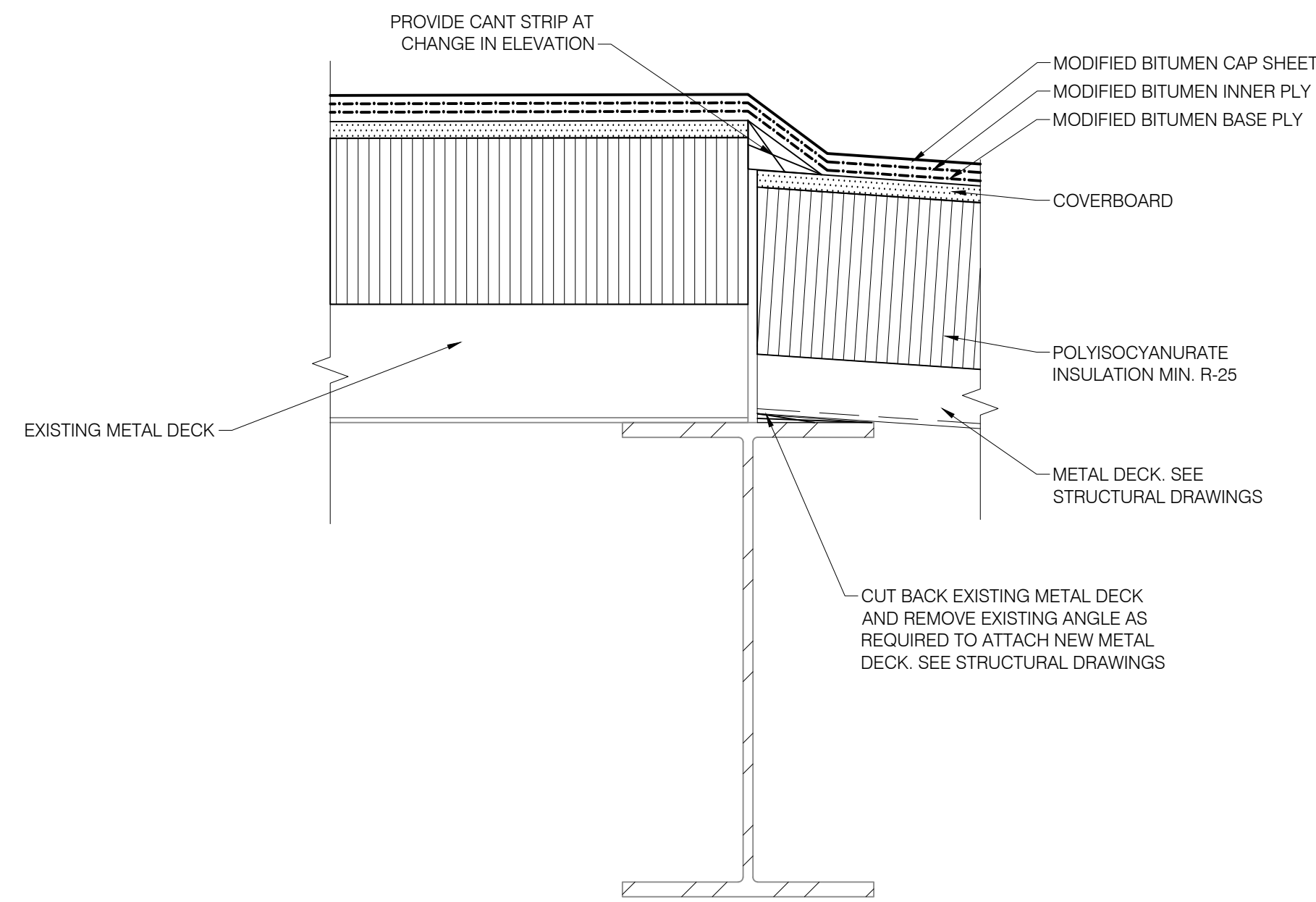
CONSTRUCTION DOCUMENTS
 ORANGE COUNTY GOVERNMENT
 SOLID WASTE ADMINISTRATION BUILDING
 ORLANDO, FLORIDA
 ROOFING REPLACEMENT PROJECT
 PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC.
 3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779
 (407) 333-1977 • FAX: (407) 333-6686 • E-MAIL: JAY@JAYAMMON.COM

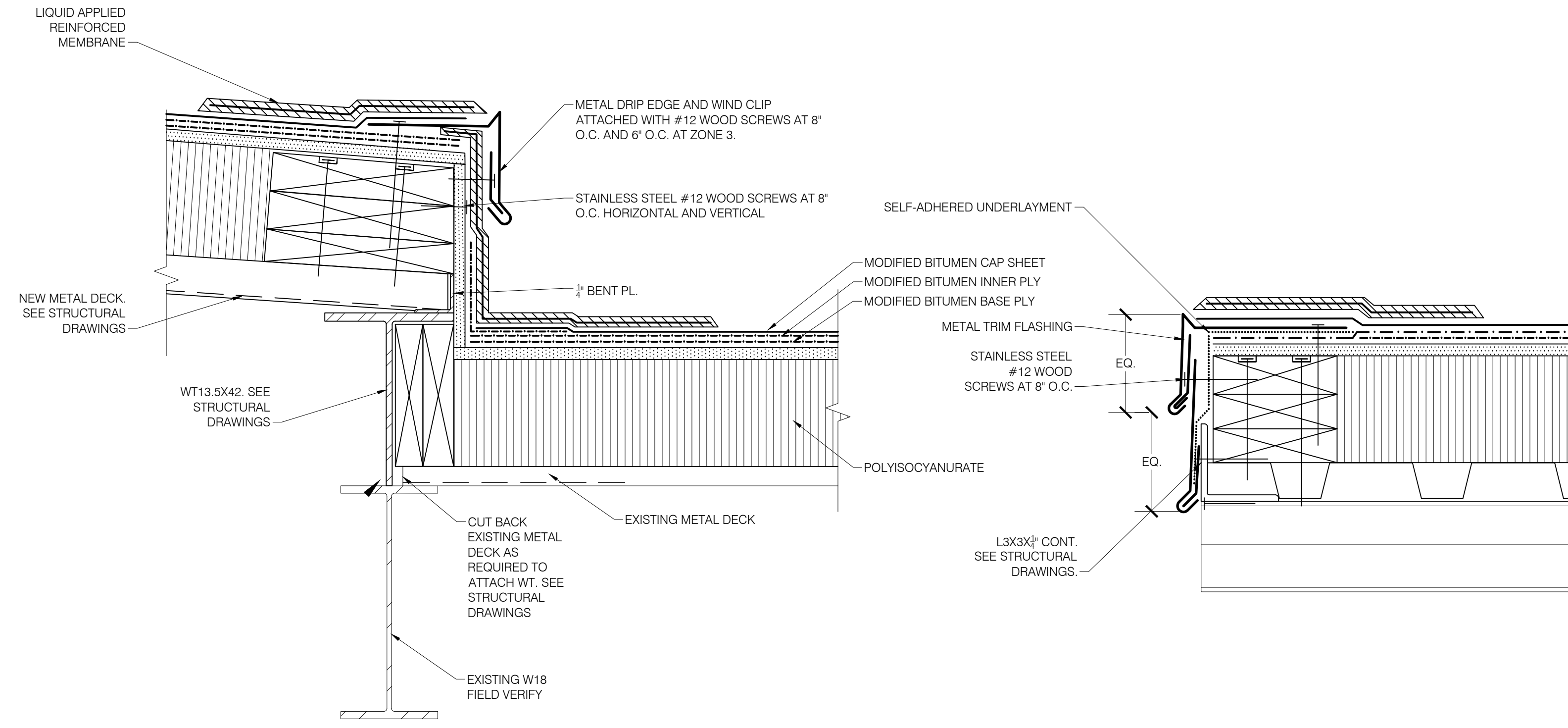
REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: NHR PROJECT NUMBER: 18-093
 APPROVED BY: JPA PHASE: CONSTRUCTION DOCS
 ENGINEER: DATE: MAY 8, 2019

ROOF REPLACEMENT DETAILS
A3.2
 PLOT: 3"=1' SHEET

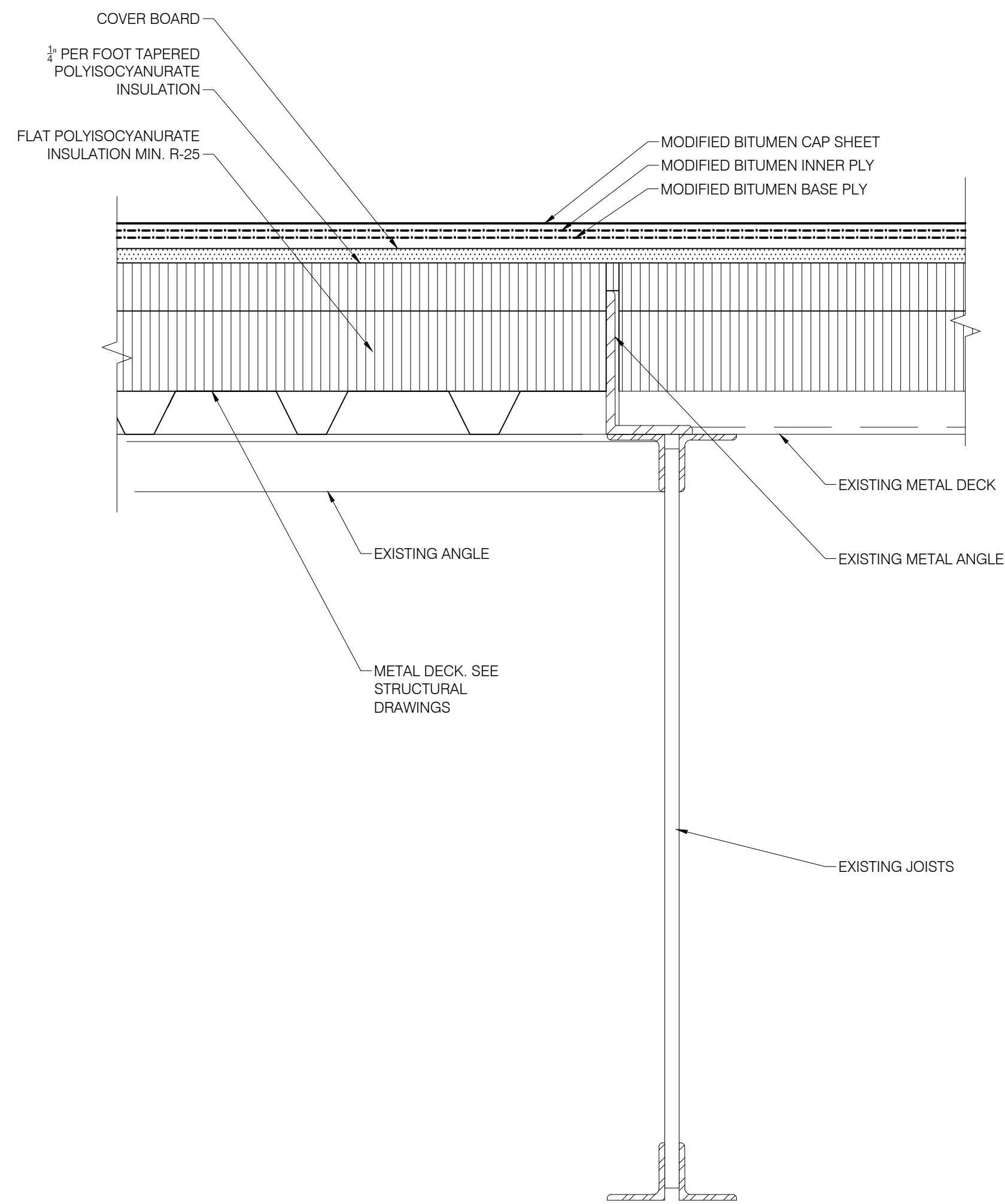


A
A-3.3
TRANSITION AT REMOVED SKYLIGHT
AT COLUMN LIN 5 AND 7
SCALE: NTS

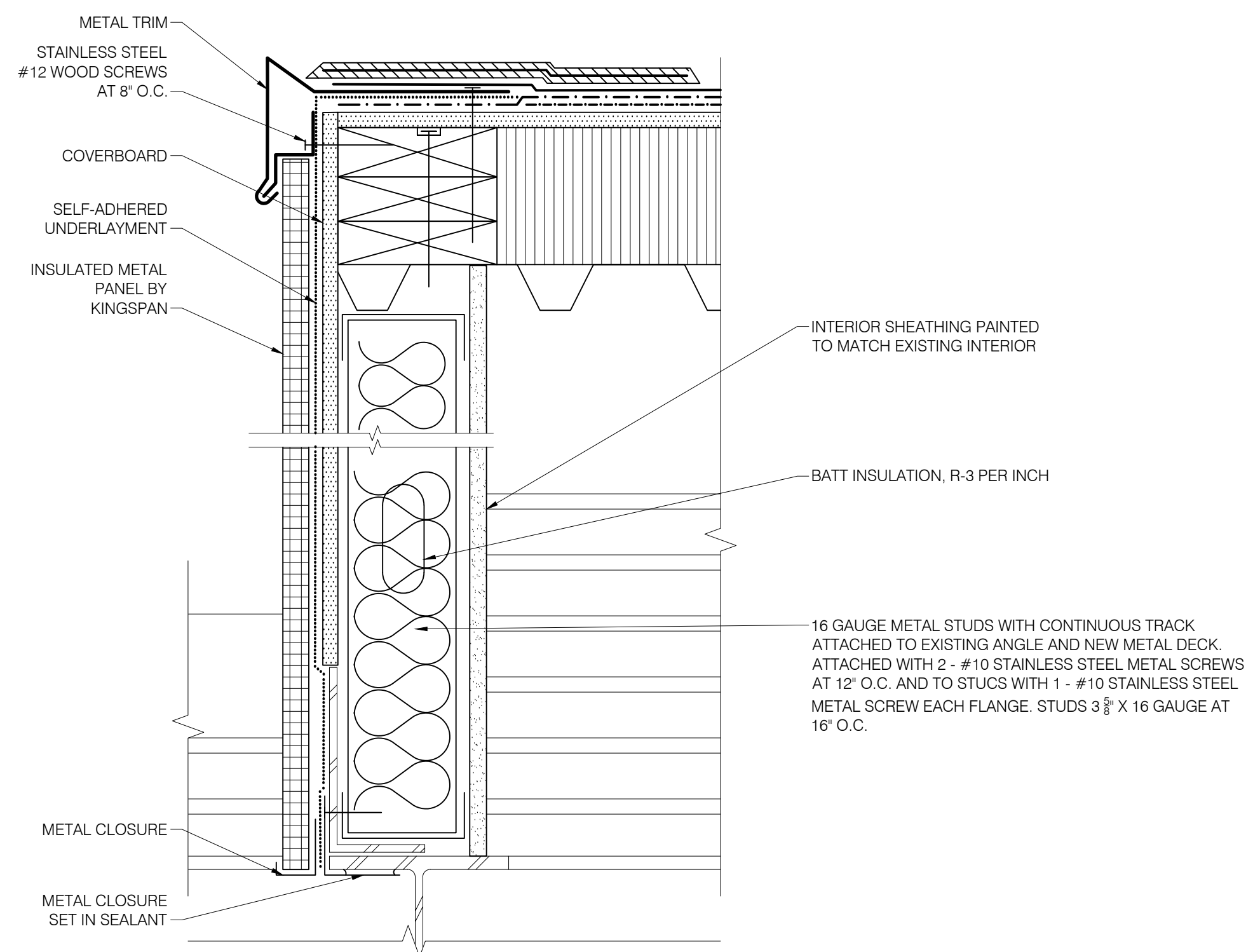


B
A-3.3
TRANSITION AT REMOVED SKYLIGHT
AT COLUMN LIN 5 AND 7
SCALE: NTS

C
A-3.3
EDGE OF ROOF DETAIL
SCALE: NTS



E
A-3.3
BASE FLASHING AT SILL
OF SKYLIGHT
SCALE: NTS



F
A-3.3
DRIP EDGE AT RAKE EDGE
AT COLUMN LINE A.5 AND C.5
SCALE: NTS

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000
FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.
BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.
CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.
COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.
LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.
MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.
MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.
MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.
RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI. FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED, AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.
ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.
SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLOGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THICK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.
DOWNSPOUT: .040 ALUMINUM, .060 ALUMINUM AT BOTTOM 6". PRIMED AND PAINTED TO MATCH EXISTING.
DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304
EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE 316.
EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.
GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316
GUTTER BRACKET: 3/8" X 1" BENT STAINLESS STEEL, TYPE 316
GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304
METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316
METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304
TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200

ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

JOINT SEALANTS SPECIFICATION SECTION 07920

BACKER ROD: CLOSED-CELL BACKER ROD.
BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.
SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.
SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.
STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.
URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS
ORANGE COUNTY GOVERNMENT
SOLID WASTE ADMINISTRATION BUILDING
ORLANDO, FLORIDA
ROOFING REPLACEMENT PROJECT

PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC.
3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779
(407) 333-1977 • FAX: (407) 333-6888 • E-MAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: NHR PROJECT NUMBER: 18-093
APPROVED BY: JBA PHASE: CONSTRUCTION DOCS
ENGINEER: DATE: MAY 8, 2019

ROOF REPLACEMENT
DETAILS
A3.3
PLOT: 3"=1' SHEET

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000
FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.

COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI. FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLOGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THICK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.
DOWNPOUT: 3/4" ALUMINUM, 3/8" ALUMINUM AT BOTTOM 6", PRIMED AND PAINTED TO MATCH EXISTING

DOWNPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304
EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE 316.

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.
GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316

GUTTER BRACKET: 3/4" X 1" BENT STAINLESS STEEL, TYPE 316
GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304

METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316
METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304
TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL

ROOF ACCESSORIES: SPECIFICATION SECTION 077200
ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

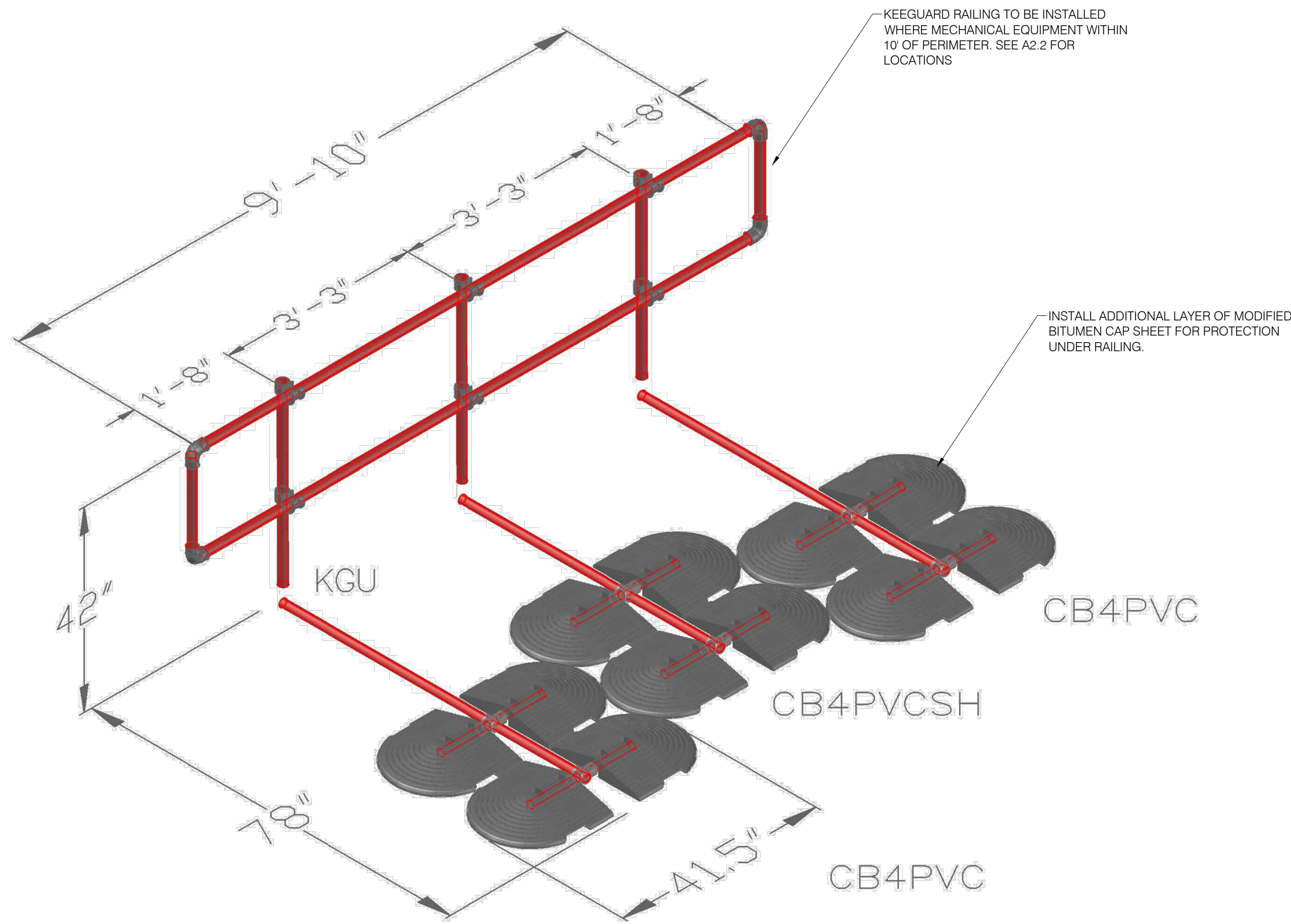
JOINT SEALANTS SPECIFICATION SECTION 07920
BACKER ROD: CLOSED-CELL BACKER ROD.
BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

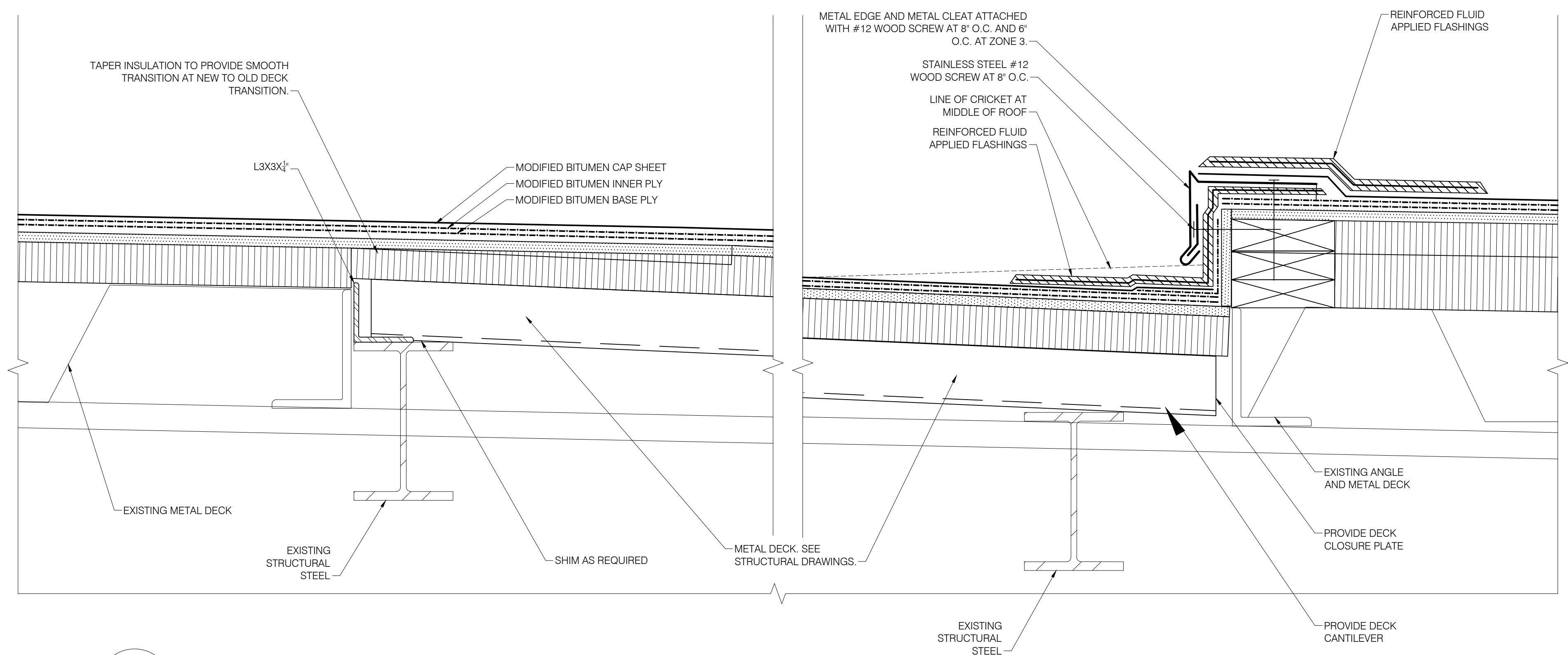
SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.



A TYPICAL KEEGUARD RAILING DETAIL
 A-3.4 SCALE: NTS



B SECTION AT CANOPY
 A-3.4 SCALE: NTS

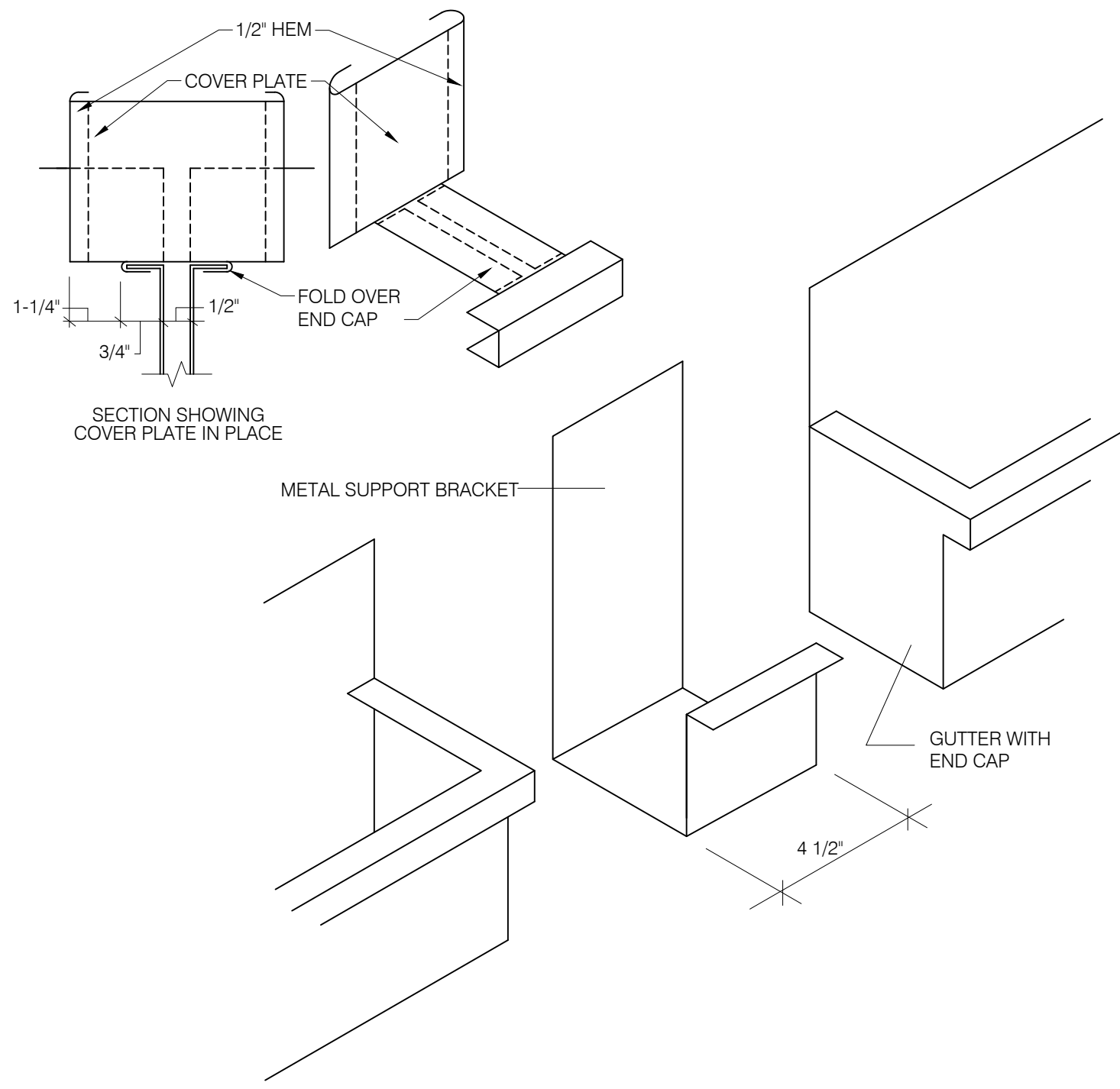
CONSTRUCTION DOCUMENTS
 ORANGE COUNTY GOVERNMENT
 SOLID WASTE ADMINISTRATION BUILDING
 ORLANDO, FLORIDA
 ROOFING REPLACEMENT PROJECT
 PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC.
 3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779
 (407) 333-1977 • FAX: (407) 333-6888 • E-MAIL: JAY@JAYAMMON.COM

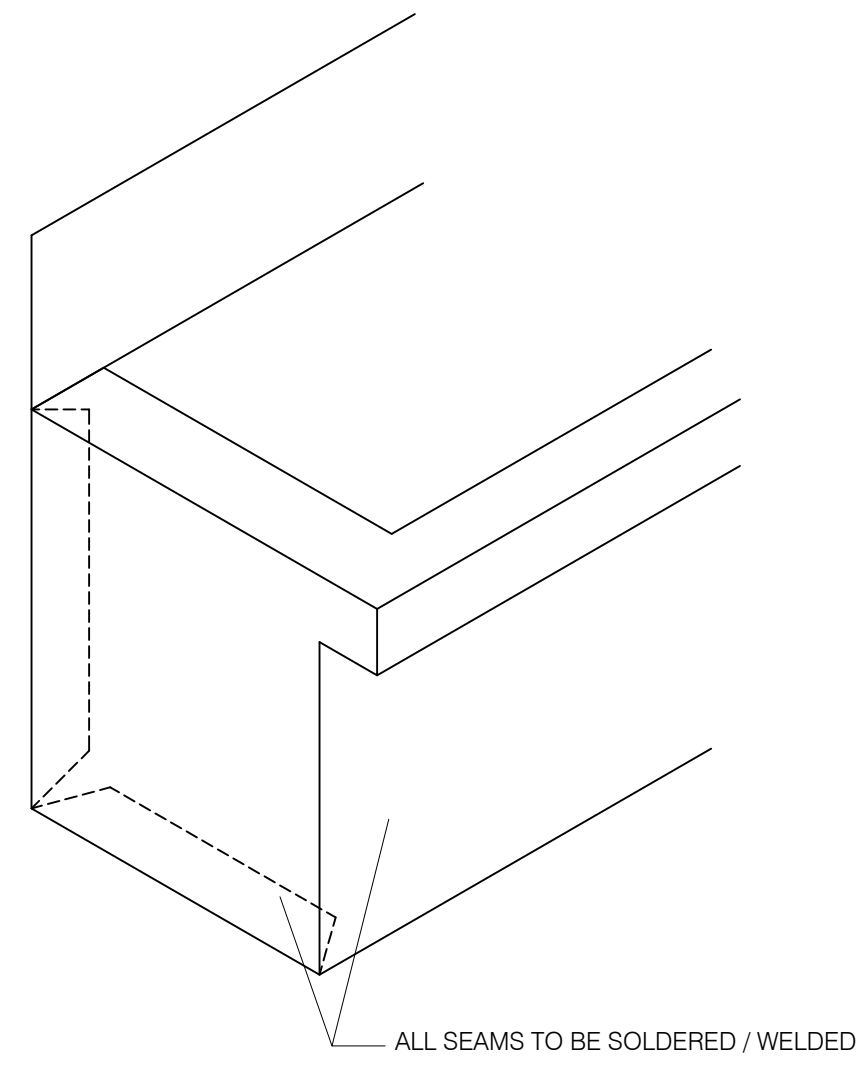
REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: NHR PROJECT NUMBER: 18-093
 APPROVED BY: JPA PHASE: CONSTRUCTION DOCS
 ENGINEER: DATE: MAY 8, 2019

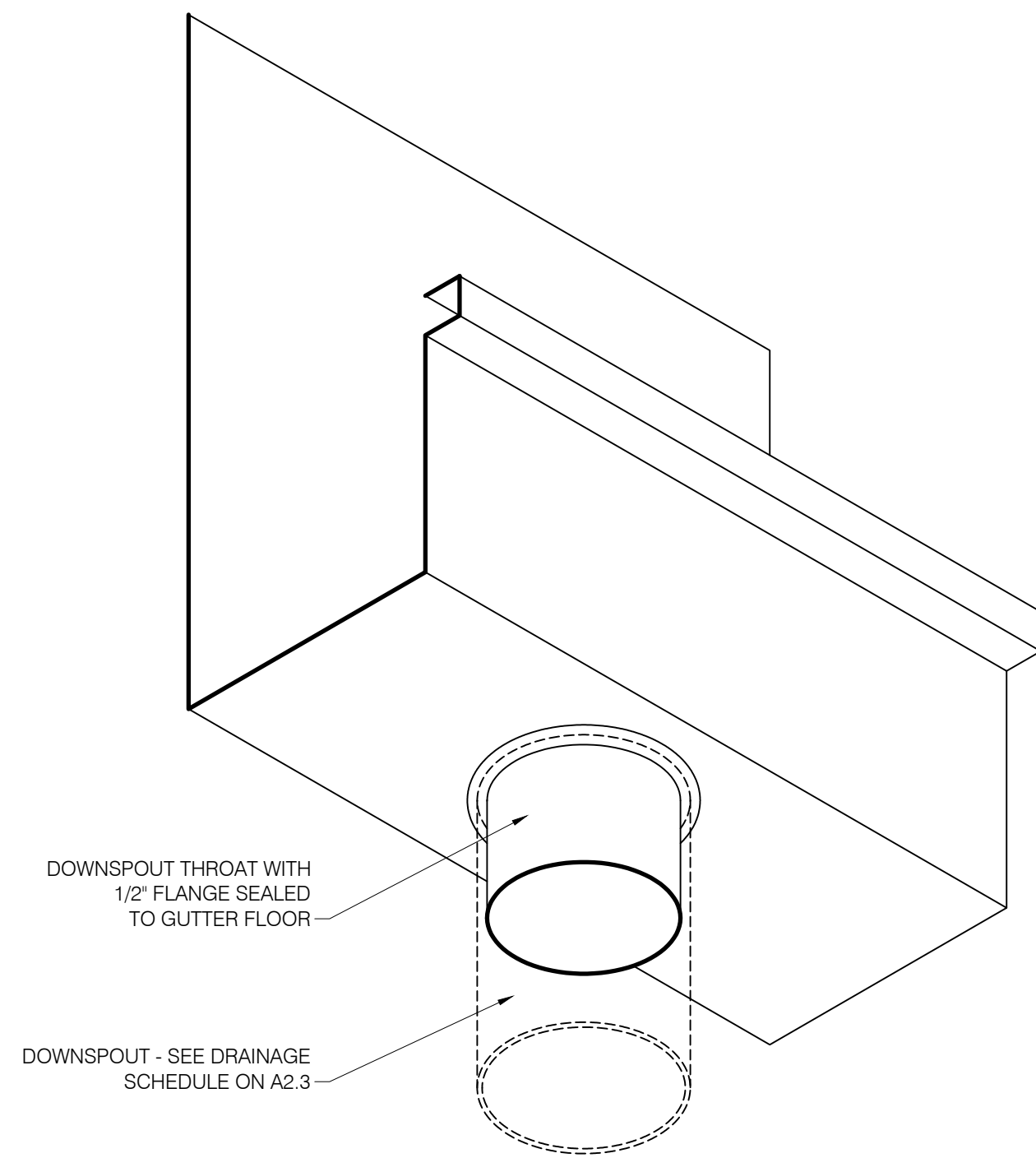
ROOF REPLACEMENT DETAILS
A3.4
 PLOT: 3"=1' SHEET



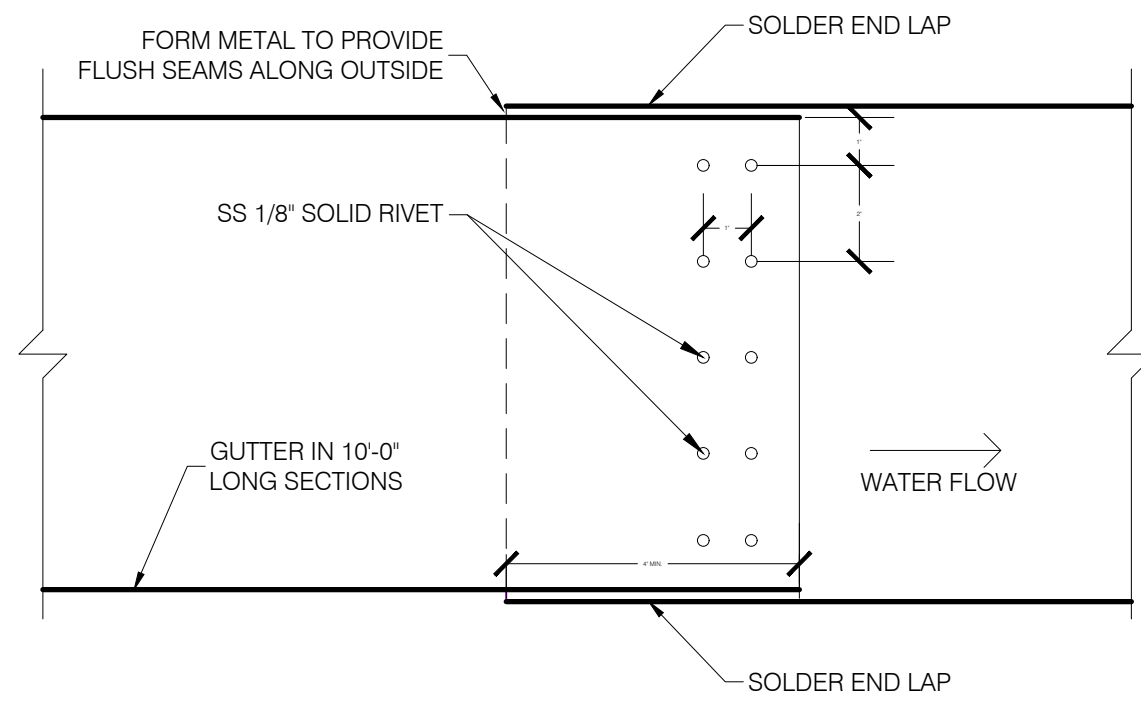
A GUTTER EXPANSION JOINT DETAIL
SCALE: NTS



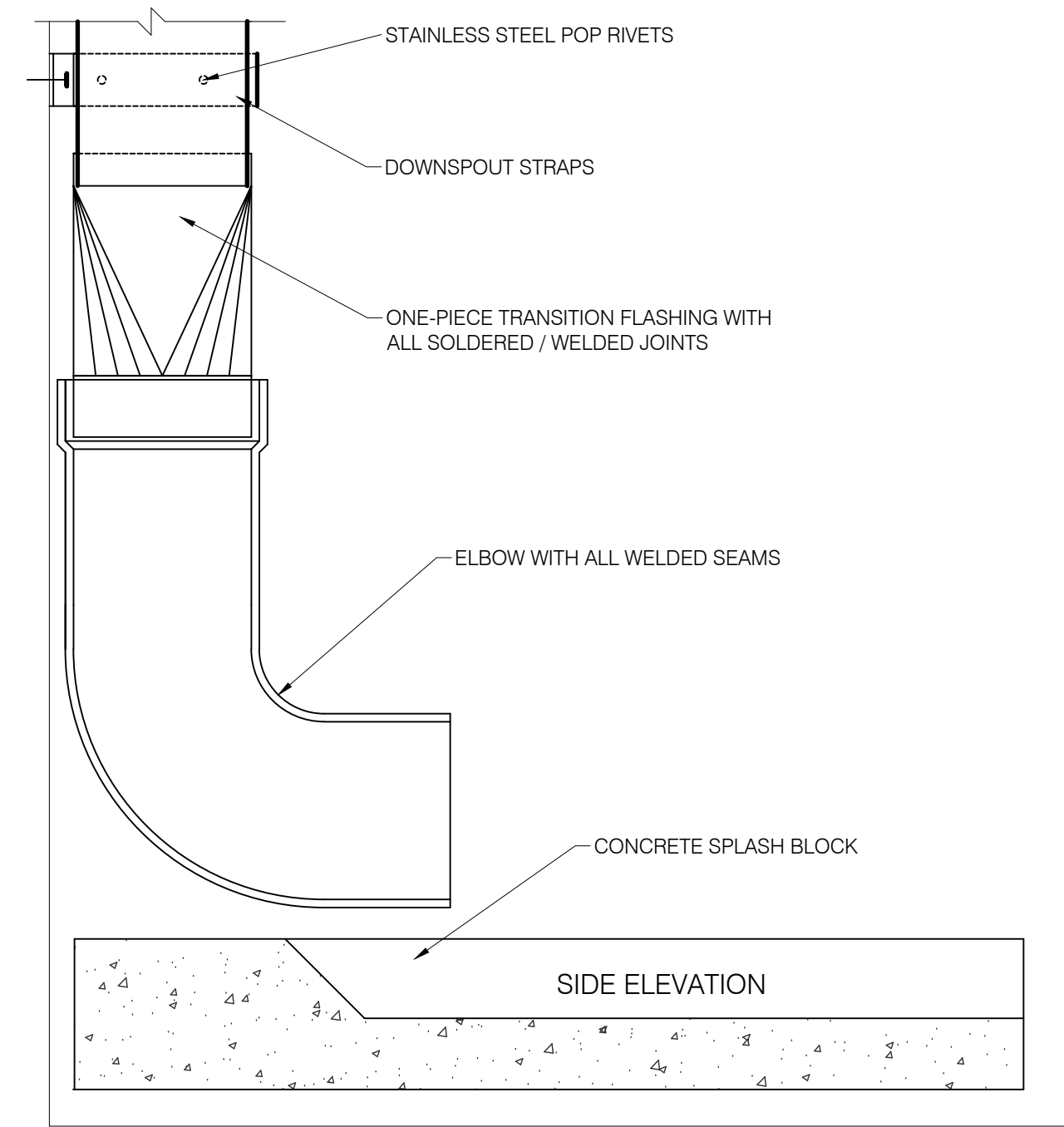
B GUTTER END CAP DETAIL
SCALE: NTS



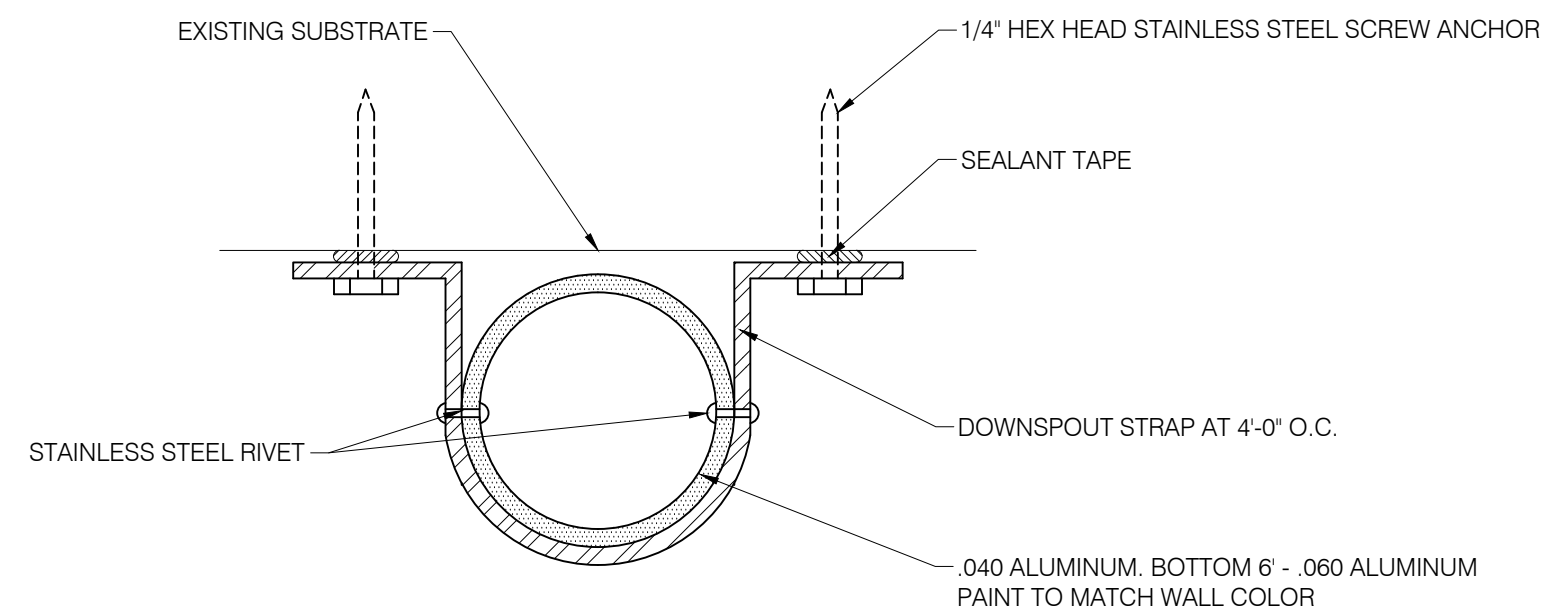
E GUTTER DOWNSPOUT CONNECTION
SCALE: NTS



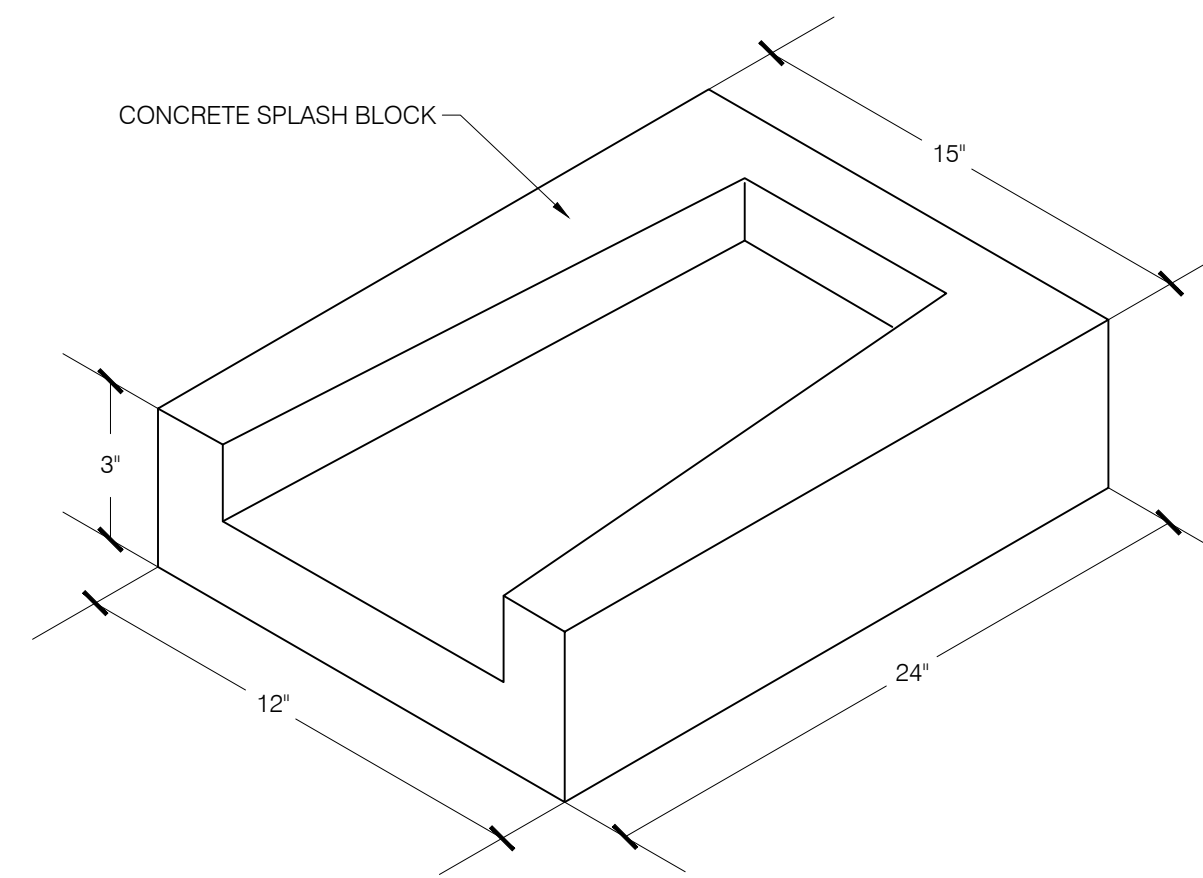
F GUTTER END LAP
SCALE: NTS



C DOWNSPOUT DISCHARGE DETAIL
SCALE: NTS



D DOWNSPOUT STRAP CONNECTION
SCALE: NTS



G CONCRETE SPLASH BLOCK ISOMETRIC
SCALE: NTS

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000
FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 075216
BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.

COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI. FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLOGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THICK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.

DOWNSPOUT: .040 ALUMINUM, .060 ALUMINUM AT BOTTOM 6", PRIMED AND PAINTED TO MATCH EXISTING.

DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304

EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE 316.

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316

GUTTER BRACKET: 3/8" X 1" BENT STAINLESS STEEL, TYPE 316

GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304

METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316

METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304

TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200

ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

JOINT SEALANTS SPECIFICATION SECTION 07920

BACKER ROD: CLOSED-CELL BACKER ROD.

BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS
ORANGE COUNTY GOVERNMENT
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ORLANDO, FLORIDA
ROOFING REPLACEMENT PROJECT

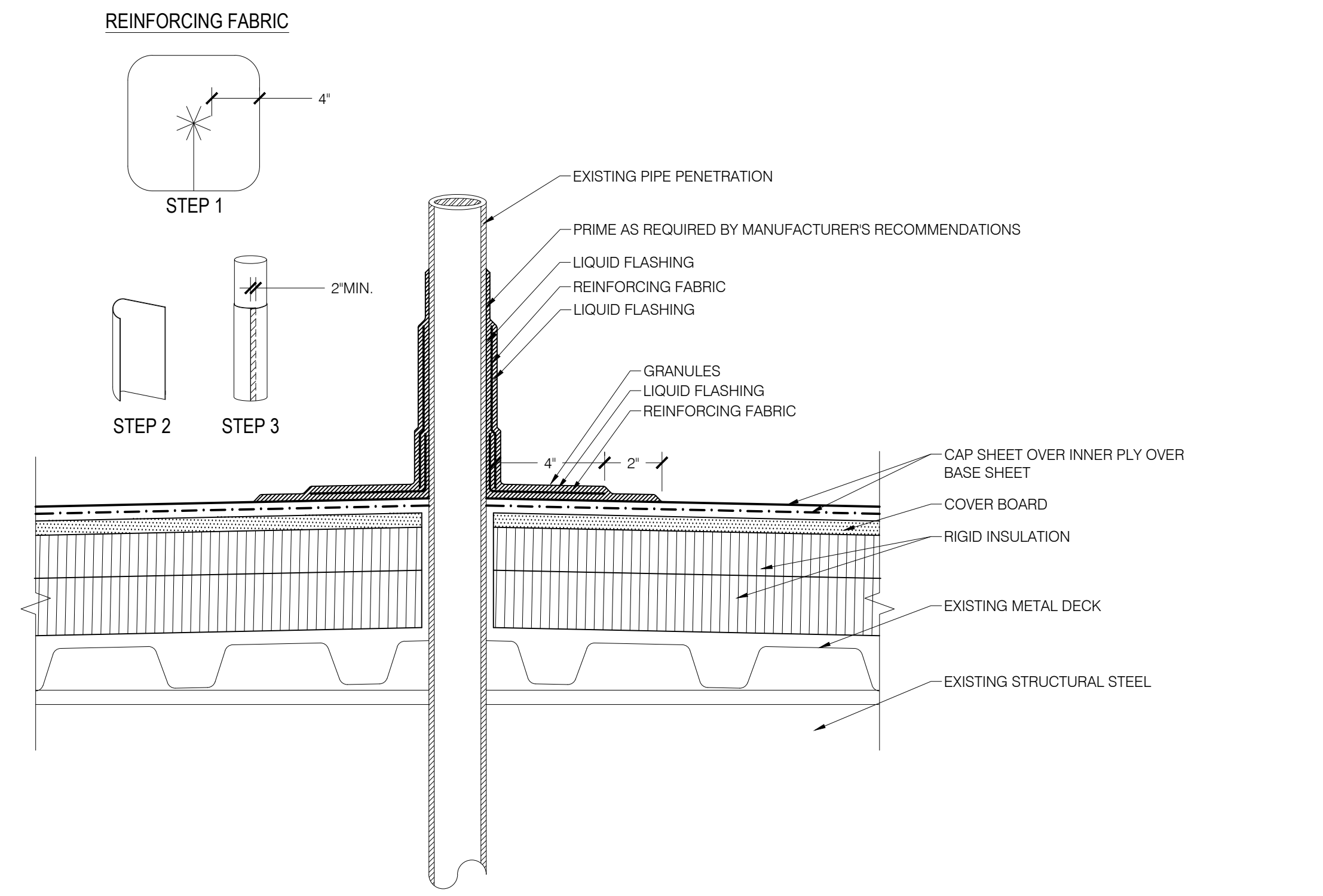
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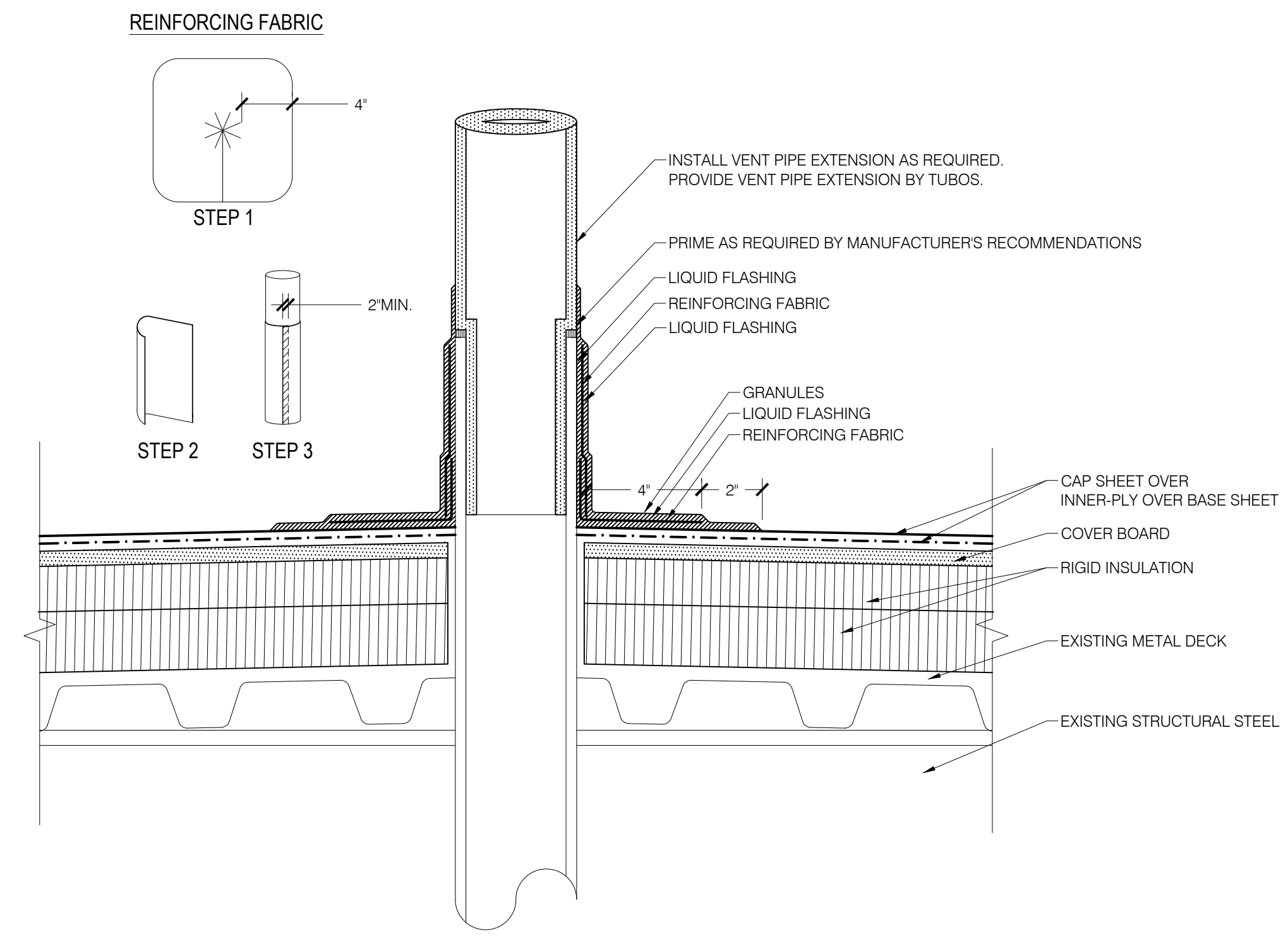
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DRAWN BY: JNHR PROJECT NUMBER: 18-093
APPROVED BY: JPA PHASE: CONSTRUCTION DOCS
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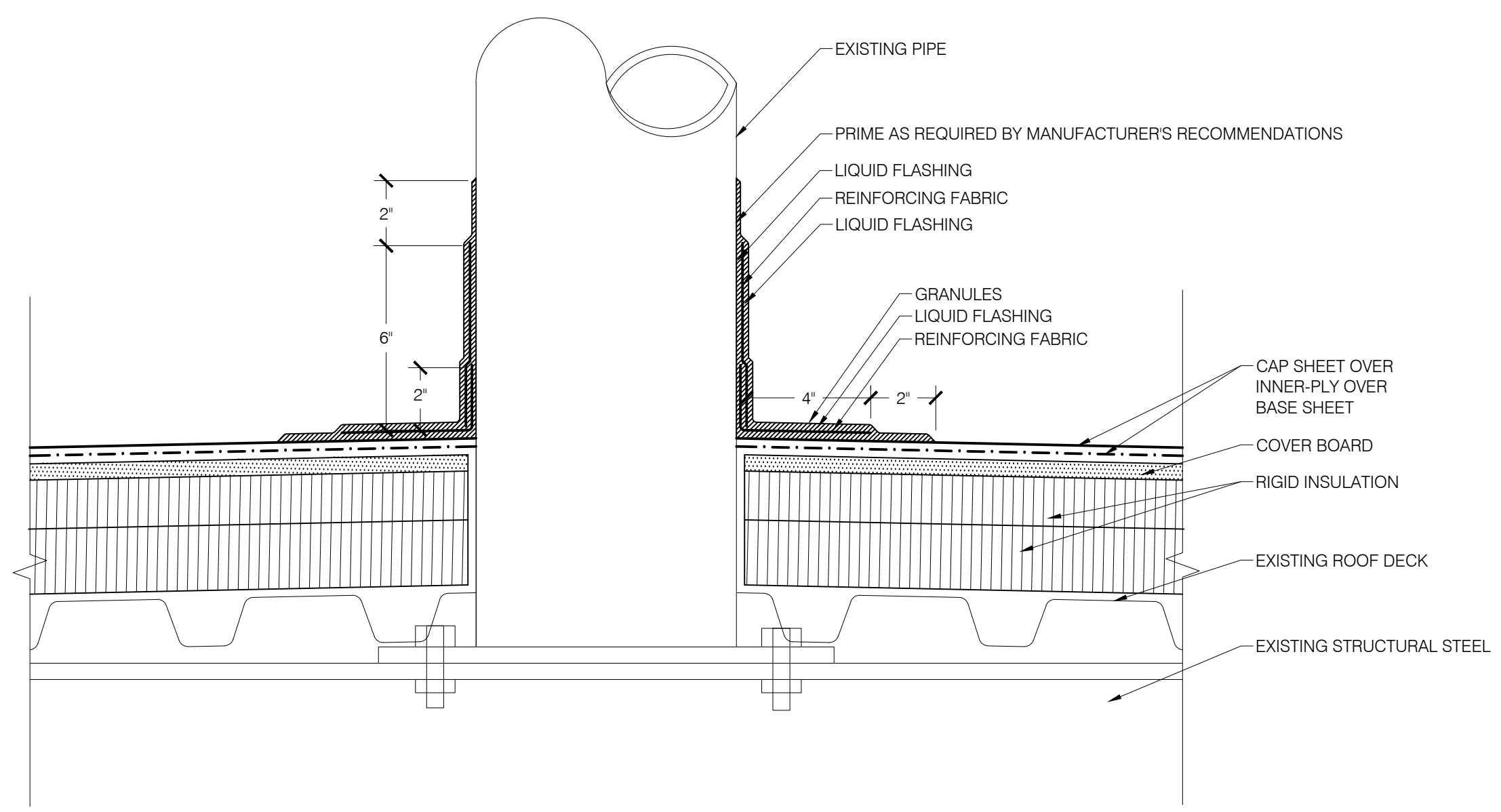
ROOF REPLACEMENT
DETAILS
A3.5
PLOT: 3"=1' SHEET



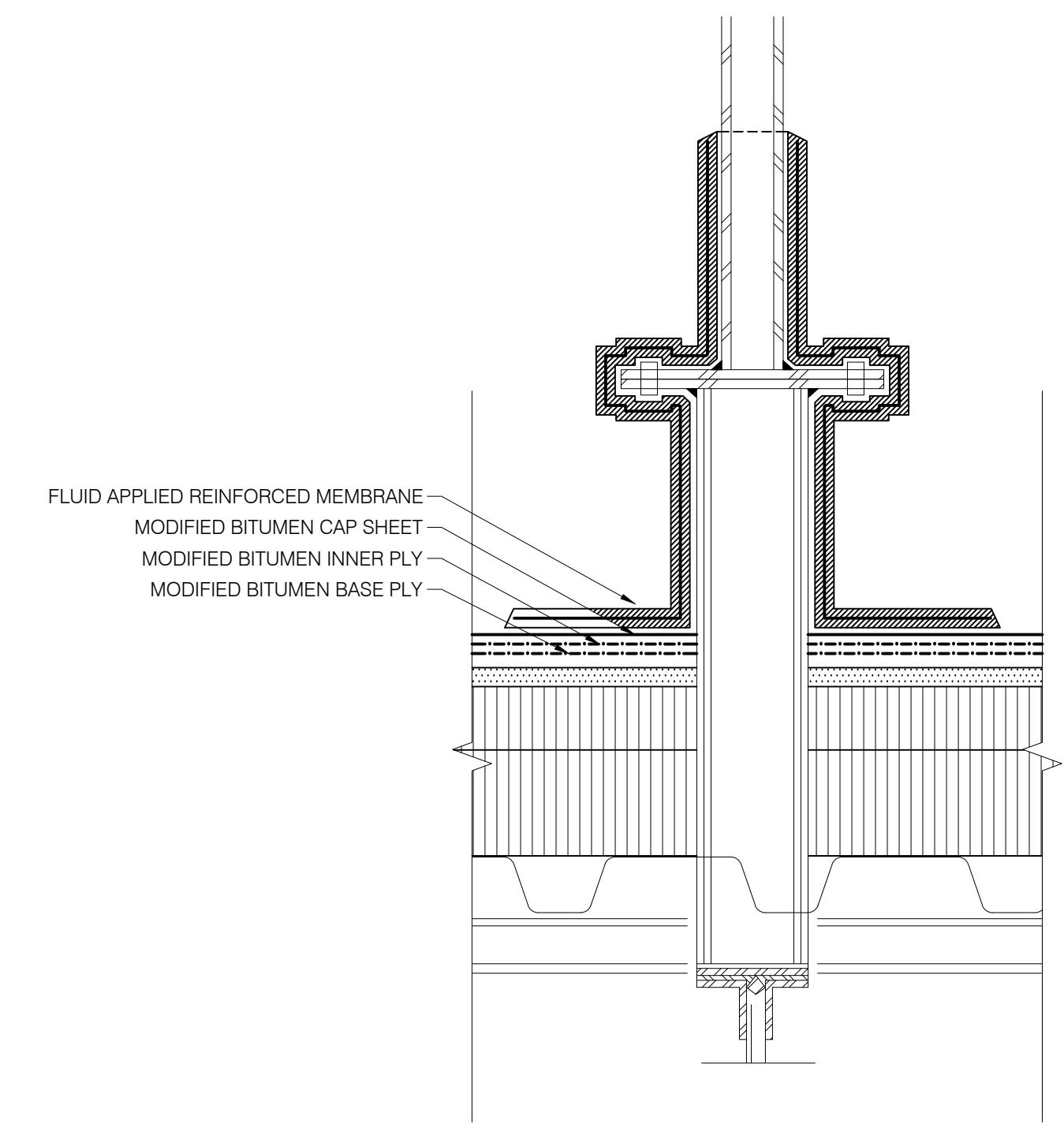
A
A-3.6 EXISTING PIPE PENETRATION FLASHING
 SCALE: NTS



B
A-3.6 PLUMBING VENT FLASHING AT PIPE EXTENSION
 SCALE: NTS



C
A-3.6 TYPICAL STRUCTURAL PIPE AND MECHANICAL SUPPORT PIPE FLASHING
 SCALE: NTS



D
A-3.6 DIAGONAL BRACING PENETRATION DETAIL
 SCALE: NTS

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000
FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.

COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI. FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLOGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THICK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.
DOWNPOUT: .040 ALUMINUM, .060 ALUMINUM AT BOTTOM 6', PRIMED AND PAINTED TO MATCH EXISTING.

DOWNPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304
EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE 316.

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316
GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316

GUTTER BRACKET: 3/8" X 1" BENT STAINLESS STEEL, TYPE 316
GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304

METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316
METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304.

TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200

ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

JOINT SEALANTS SPECIFICATION SECTION 07920

BACKER ROD: CLOSED-CELL BACKER ROD.
BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.
STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

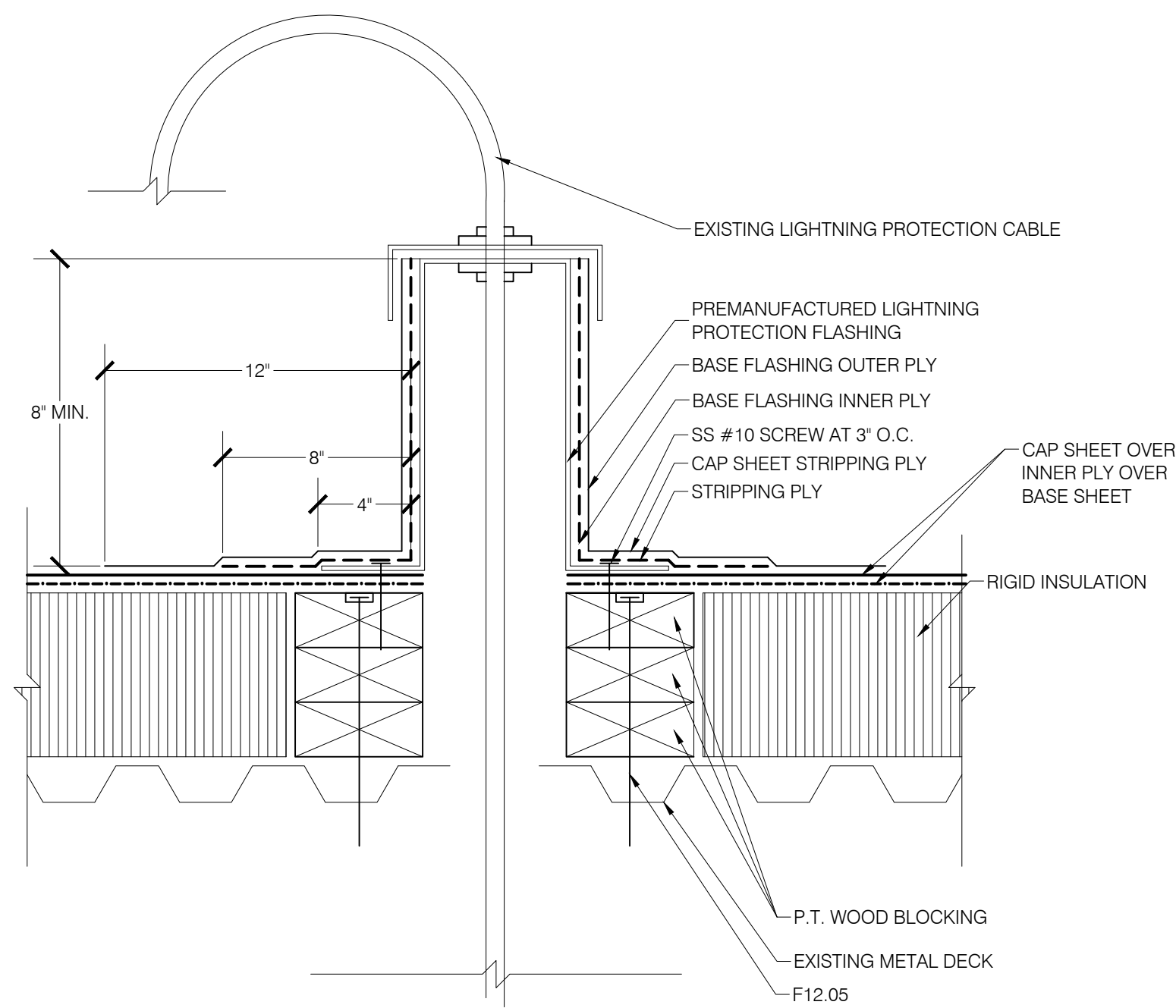
URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS
 ORANGE COUNTY GOVERNMENT
 SOLID WASTE ADMINISTRATION BUILDING
 ORLANDO, FLORIDA
 ROOFING REPLACEMENT PROJECT
 PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC.
 3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779
 (407) 333-1977 • FAX: (407) 333-6686 • E-MAIL: JAY@JAYAMMON.COM

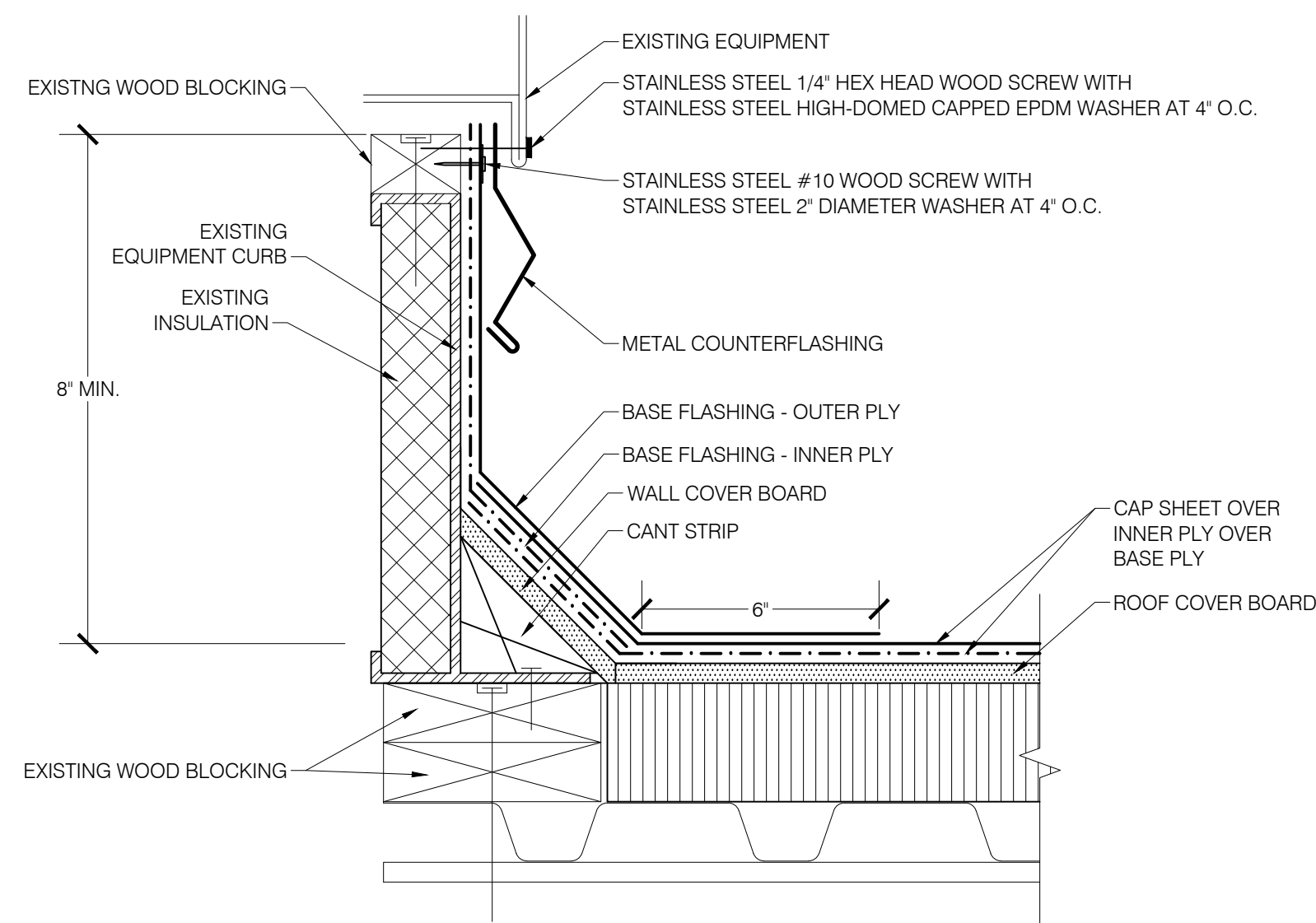
REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: NHR PROJECT NUMBER: 18-093
 APPROVED BY: JPA PHASE: CONSTRUCTION DOCS
 ENGINEER: DATE: MAY 8, 2019

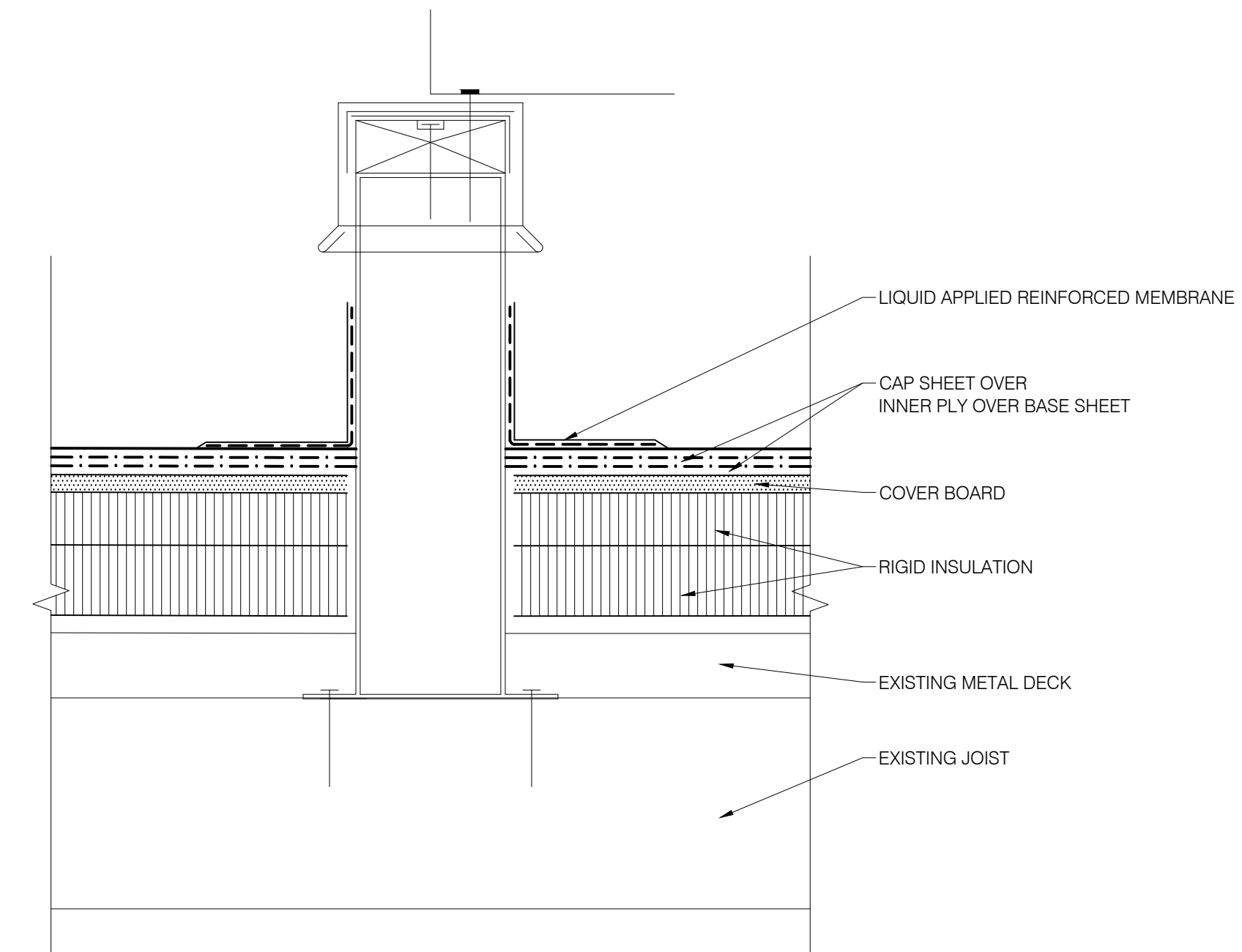


A
A-3.7
SCALE: NTS
LIGHTNING PROTECTION
CABLE PENETRATION

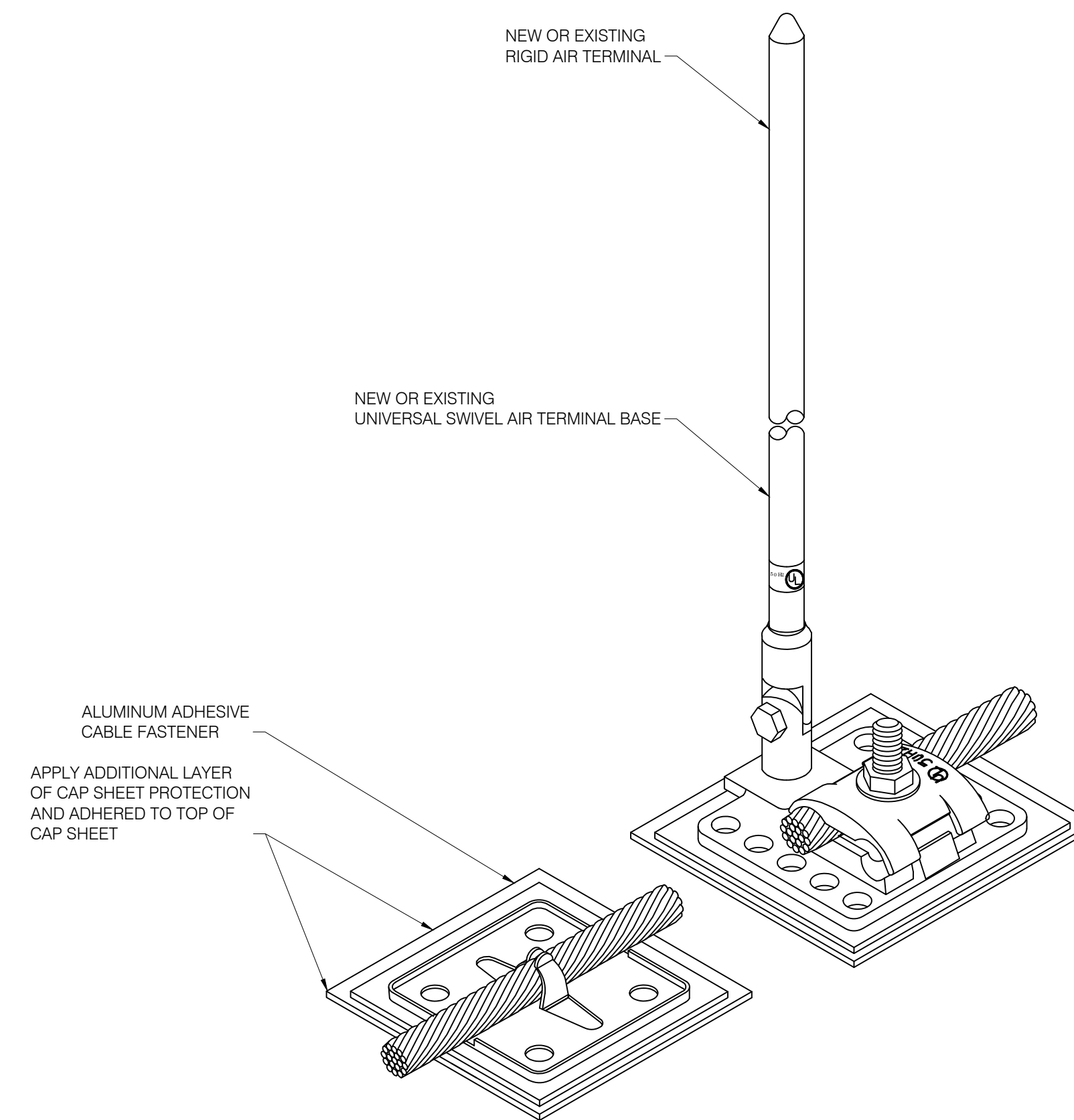
NOTES:
1. SOLDER ALL VERTICAL OUTSIDE CORNER END JOINTS.
2. ALL MECHANICAL UNITS REQUIRE TIE-DOWNS UNLESS NOTED OTHERWISE.



C
A-3.7
SCALE: NTS
EQUIPMENT CURB SECTION



B
A-3.7
SCALE: NTS
EQUIPMENT STAND FLASHING



D
A-3.7
SCALE: NTS
LIGHTNING PROTECTION BASE DETAIL

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000
FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.

COVER BOARD: 1/2\"/>

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI. FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLOGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030\"/>

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.

DOWNSPOUT: 3/4\"/>

DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304

EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE 316.

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316

GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316

GUTTER BRACKET: 3/4\"/>

GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304

METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316

METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304

TERMINATION BAR: 1/8\"/>

ROOF ACCESSORIES: SPECIFICATION SECTION 077200

ROOF HATCH: BASIS OF DESIGN: BILCO TYPE 'S-50TB' ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

JOINT SEALANTS SPECIFICATION SECTION 07920

BACKER ROD: CLOSED-CELL BACKER ROD.

BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

SEALANT TAPE: 1\"/>

STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, 'M-1' MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS
ORANGE COUNTY GOVERNMENT
SOLID WASTE ADMINISTRATION BUILDING
ORLANDO, FLORIDA
ROOFING REPLACEMENT PROJECT
PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC.
3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779
(407) 333-1977 • FAX: (407) 333-6888 • EMAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: NHR PROJECT NUMBER: 18-093
APPROVED BY: JPA PHASE: CONSTRUCTION DOCS
ENGINEER: DATE: MAY 8, 2019

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000
FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

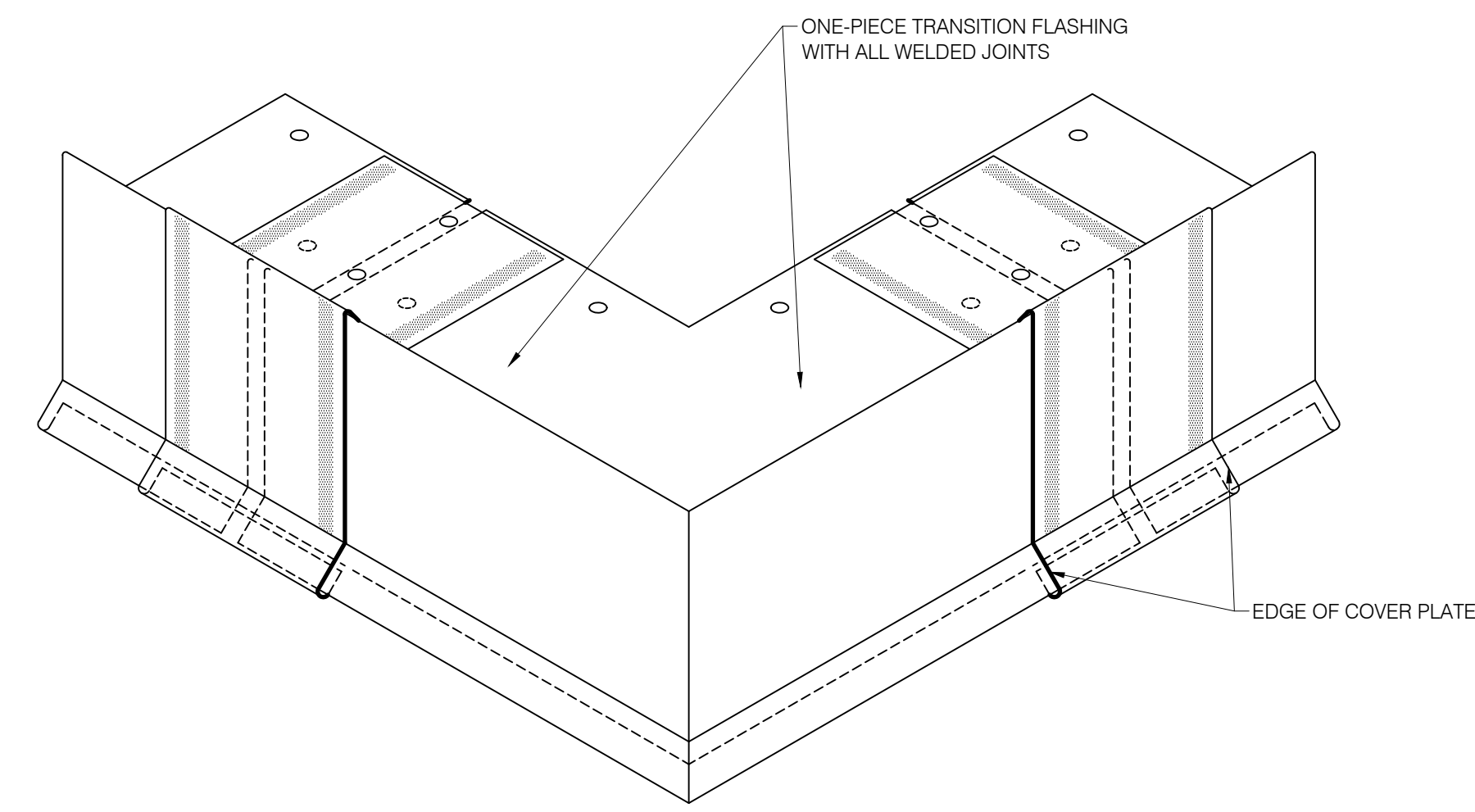
MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 075216
BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.
BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.
CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.
COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.
LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.
MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.
MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.
RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI. FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.
ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.
SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLOGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THICK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200
BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.
DOWNSPOUT: 3/4" ALUMINUM, 3/8" ALUMINUM AT BOTTOM 6", PRIMED AND PAINTED TO MATCH EXISTING.
DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304
EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE 316.
EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.
GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316
GUTTER BRACKET: 3/4" X 1" BENT STAINLESS STEEL, TYPE 316
GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304
METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316
METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304
TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

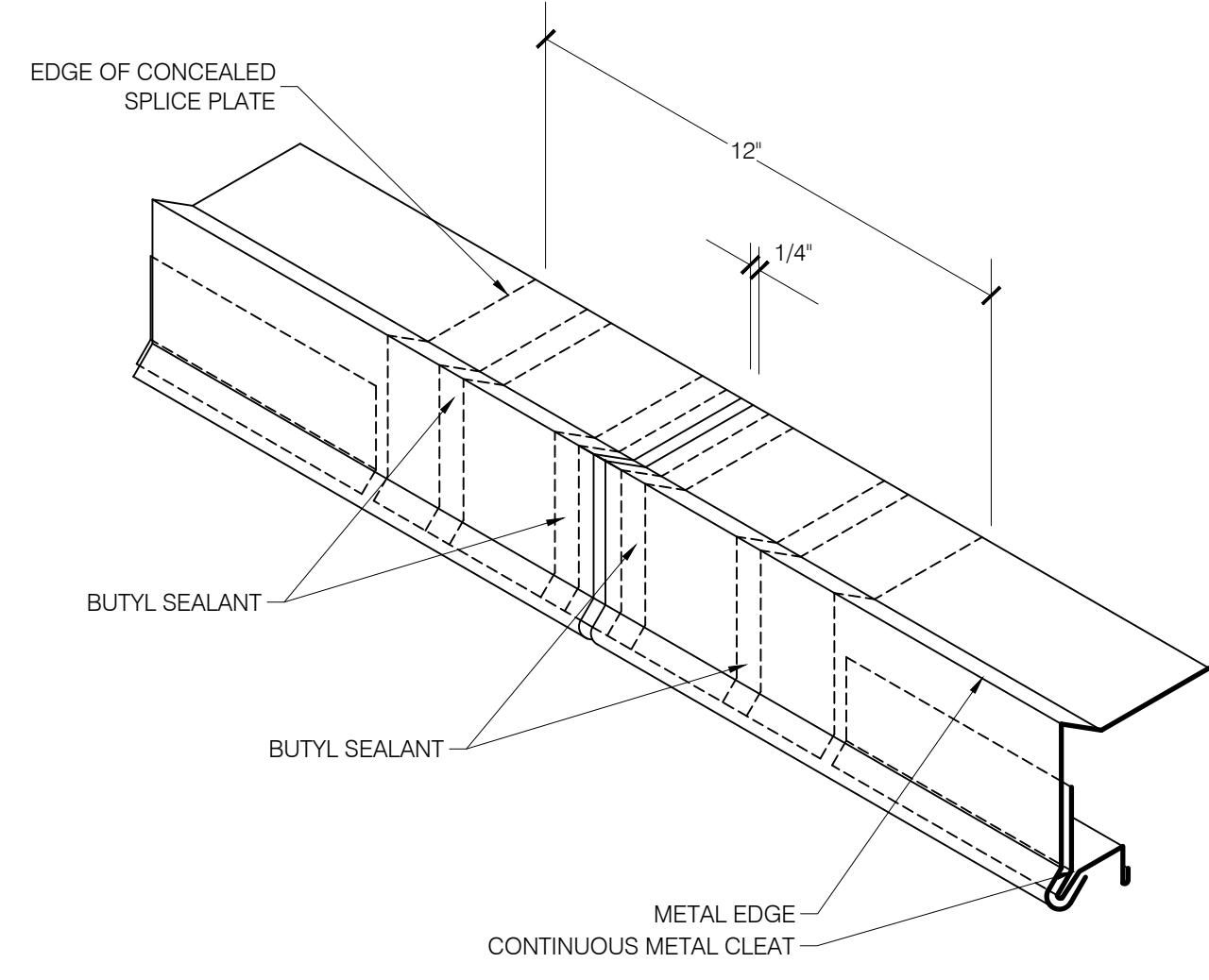
ROOF ACCESSORIES: SPECIFICATION SECTION 077200
ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

JOINT SEALANTS SPECIFICATION SECTION 07920
BACKER ROD: CLOSED-CELL BACKER ROD.
BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.
SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.
SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.
STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.
URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

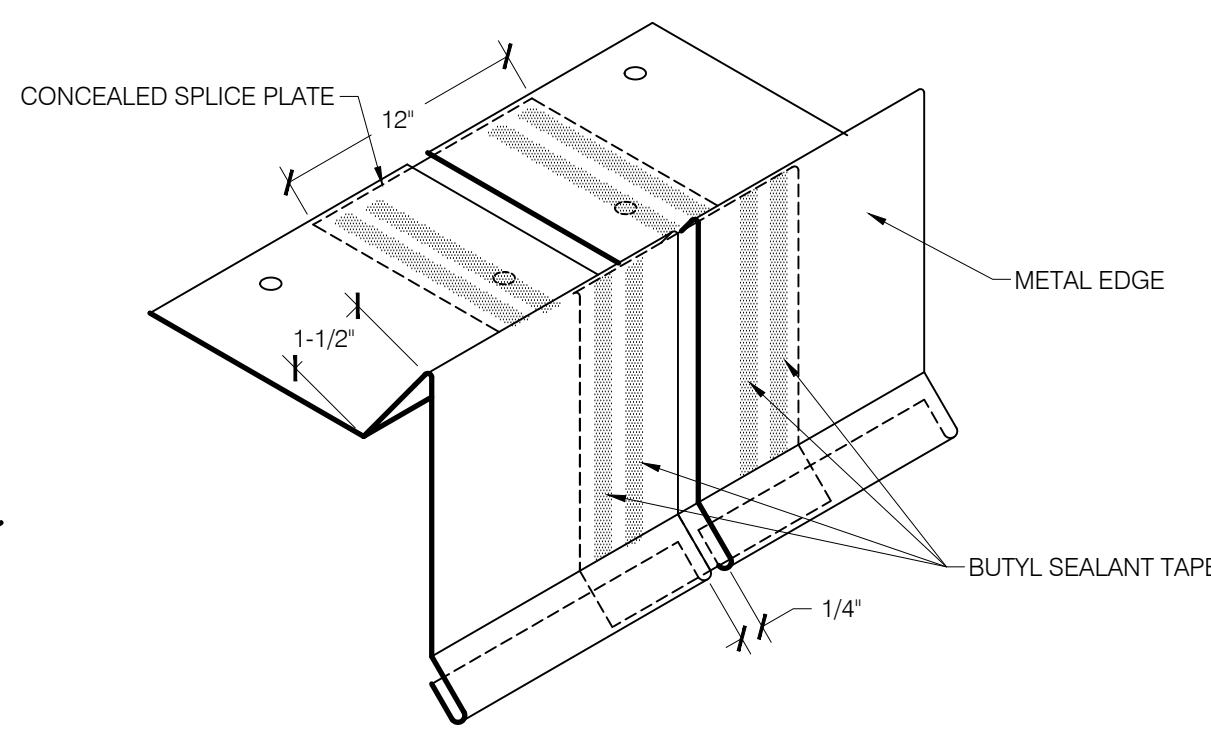
NOTE: METAL CLEAT NOT SHOWN FOR CLARITY.



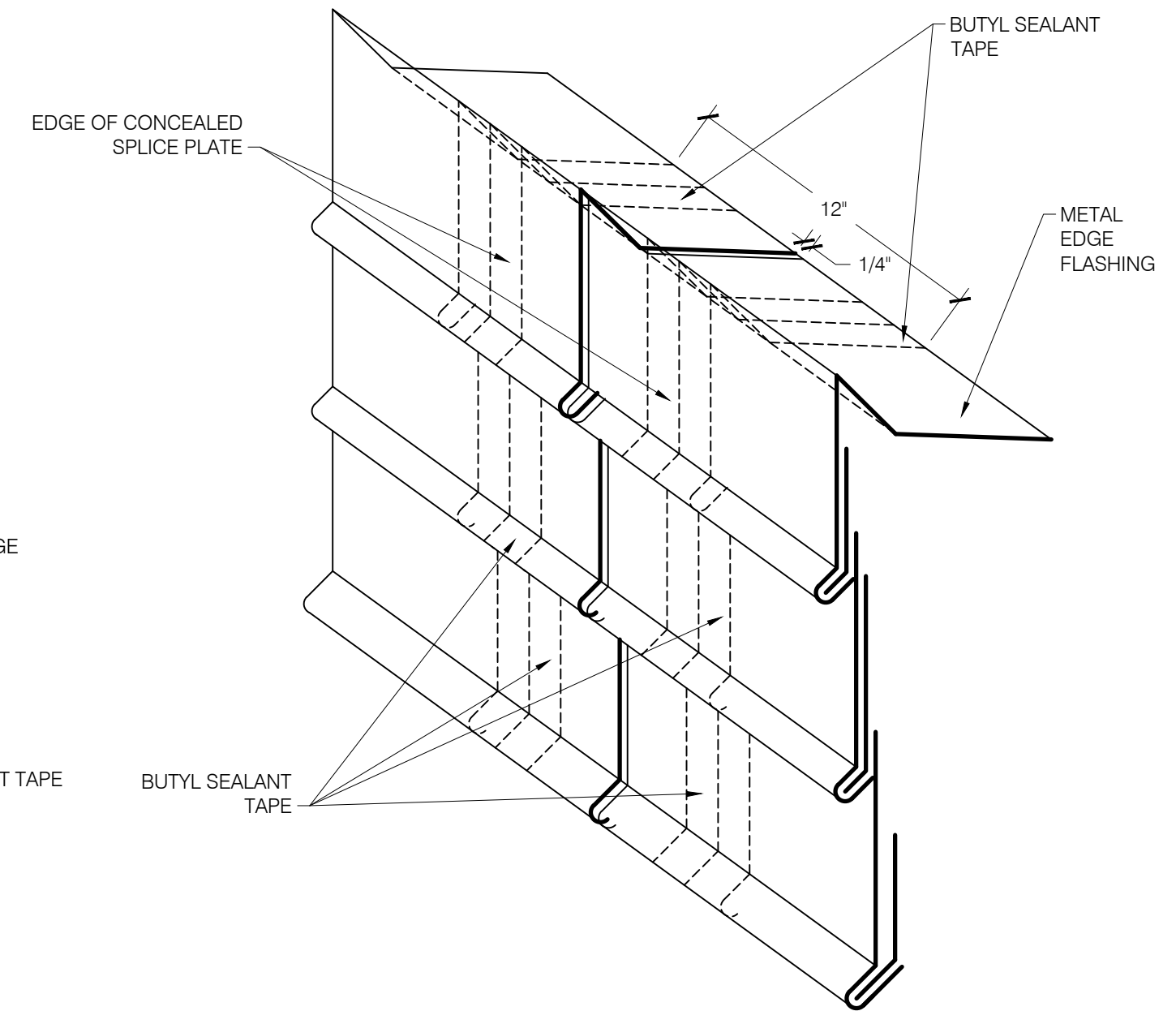
A
A-3.8 SCALE: NTS
METAL EDGE - OUTSIDE CORNER - HIGH PROFILE TRANSITION



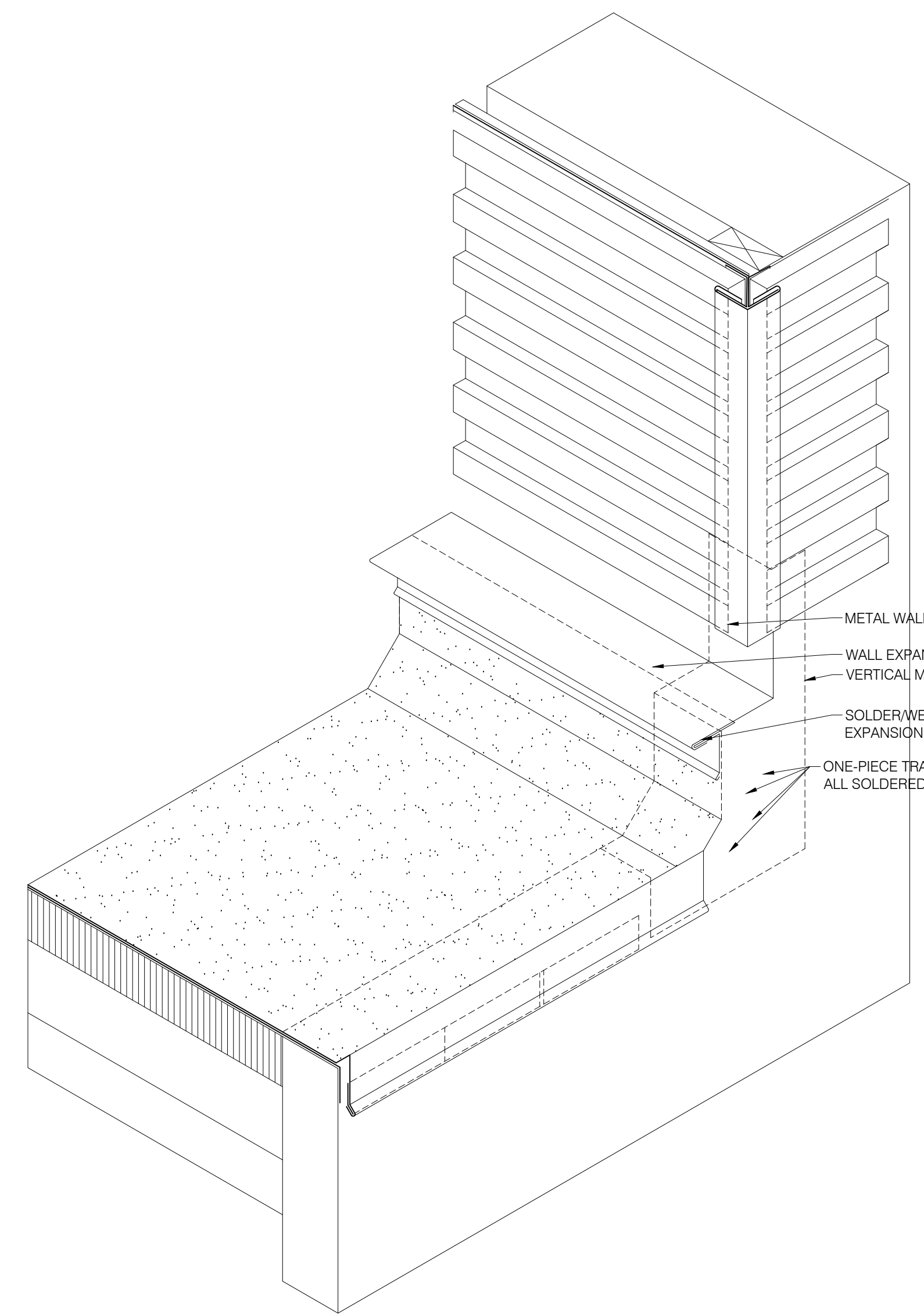
B
A-3.8 SCALE: NTS
METAL EDGE SPLICE PLATE



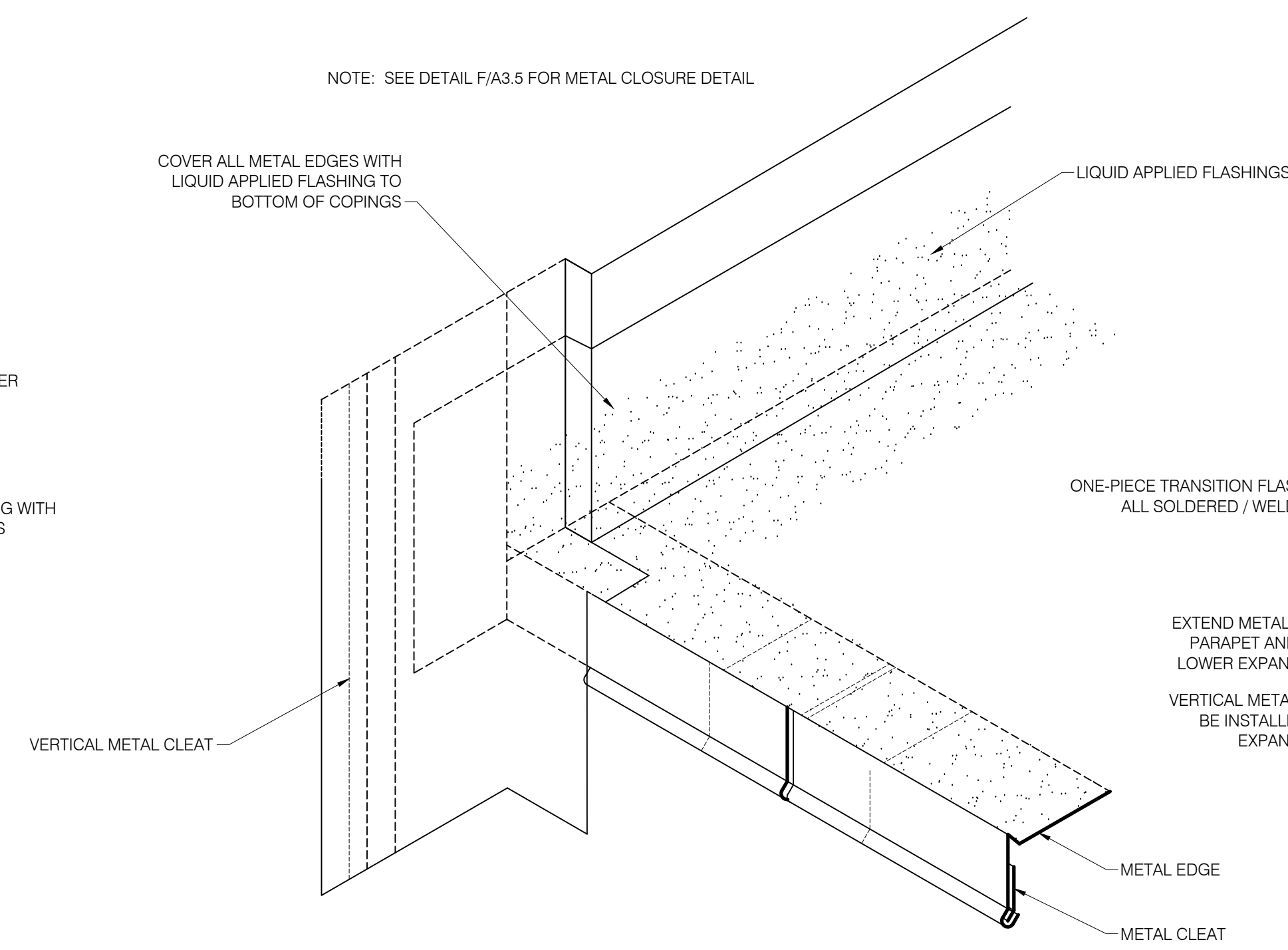
C
A-3.8 SCALE: NTS
METAL EDGE WITH CONCEALED SPLICE PLATE



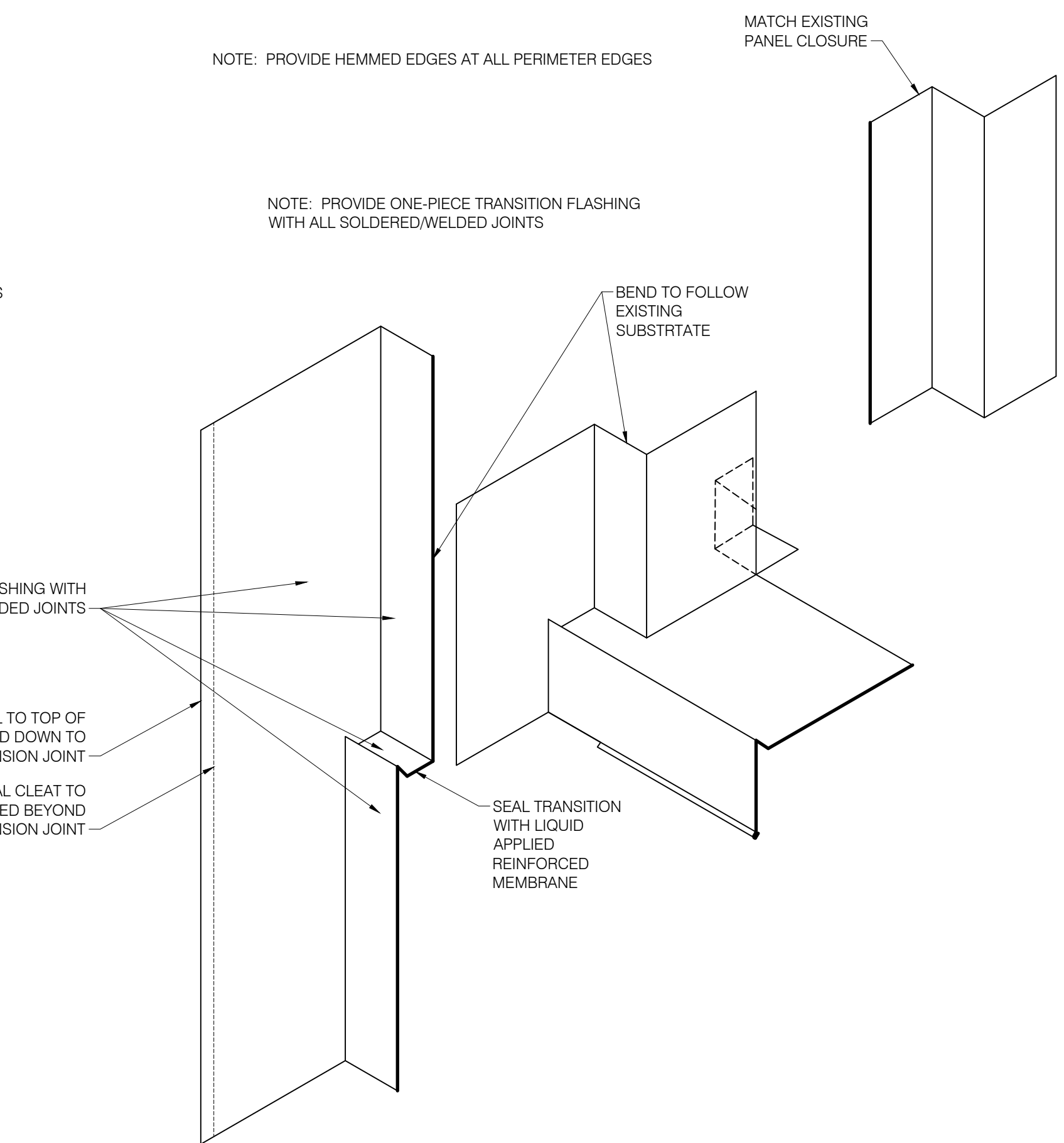
D
A-3.8 SCALE: NTS
METAL EDGE WITH CONCEALED SPLICE PLATE - TYPE 2



E
A-3.8 SCALE: NTS
TRANSITION FLASHING - METAL EDGE TO WALL EXPANSION JOINT



F
A-3.8 SCALE: NTS
METAL EDGE TO COUNTERFLASHING TRANSITION DETAIL



G
A-3.8 SCALE: NTS
METAL EDGE TO COUNTERFLASHING TRANSITION METAL DETAILS

CONSTRUCTION DOCUMENTS
 ORANGE COUNTY GOVERNMENT
 SOLID WASTE ADMINISTRATION BUILDING
 ORLANDO, FLORIDA
 ROOFING REPLACEMENT PROJECT
 PROJECT NUMBER: 18-093

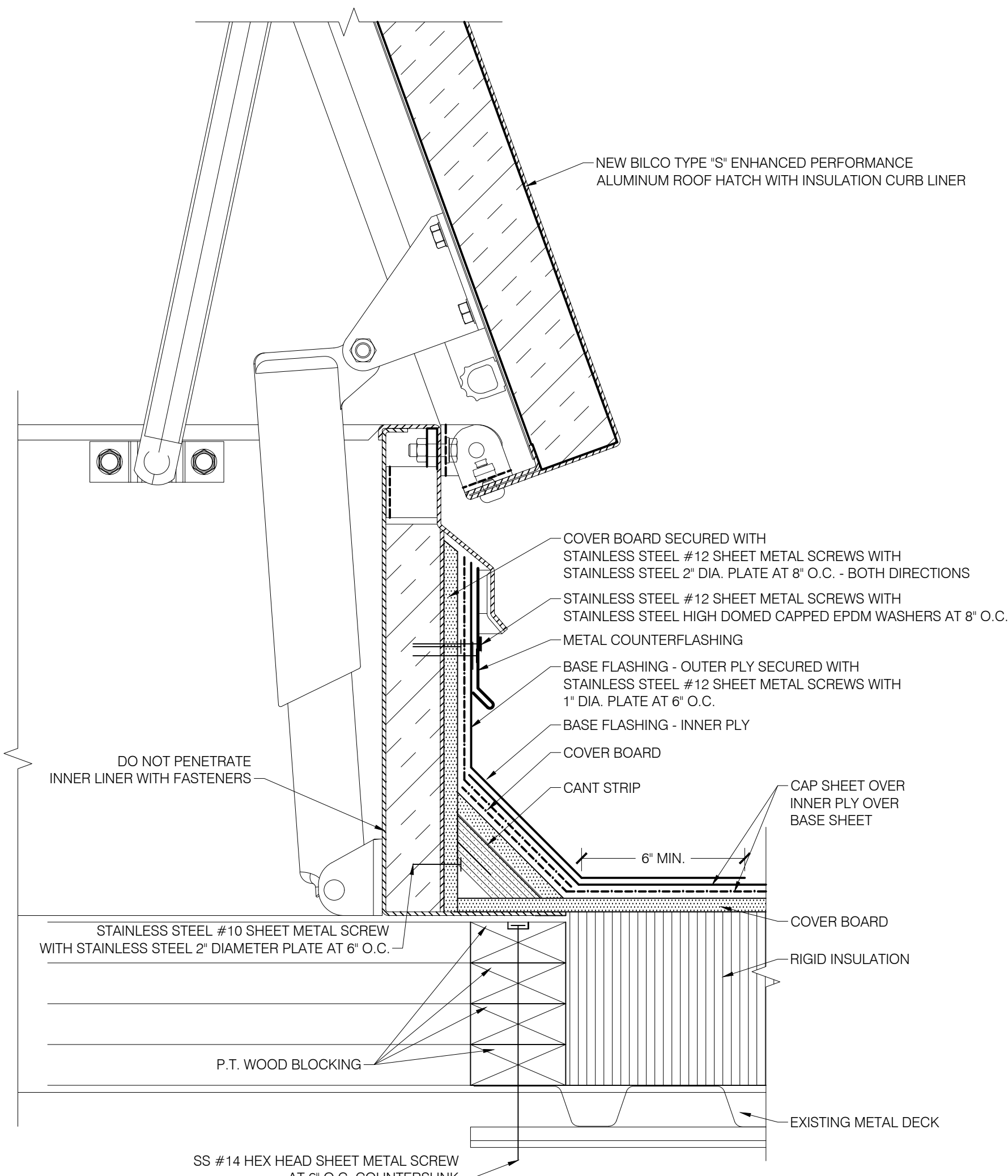
JAY AMMON ARCHITECT, INC.
 3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779
 (407) 333-1977 • FAX: (407) 333-6888 • E-MAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

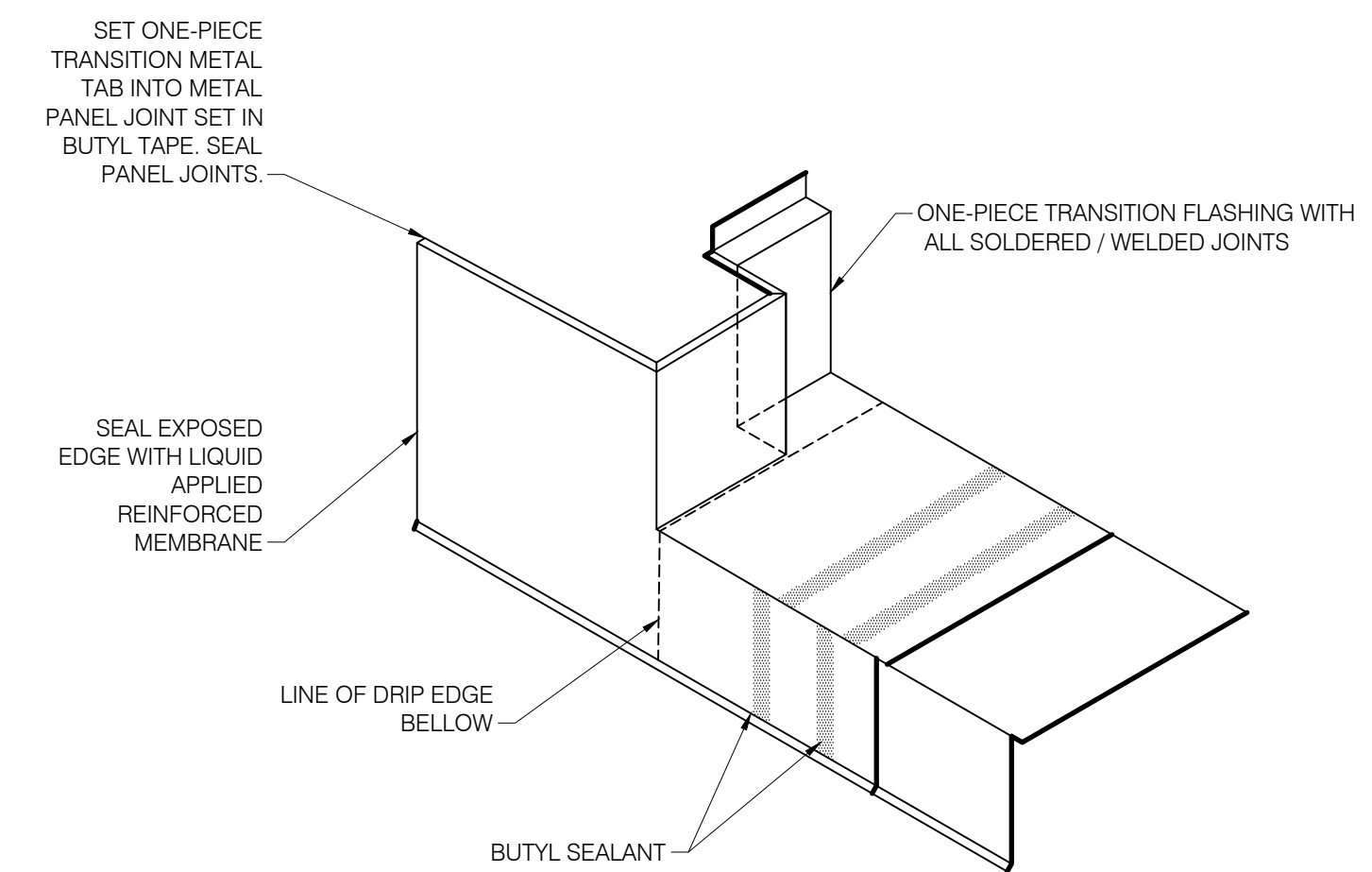
DRAWN BY: NHR PROJECT NUMBER: 18-093
 APPROVED BY: JPA PHASE: CONSTRUCTION DOCS
 ENGINEER: DATE: MAY 8, 2019

ROOF REPLACEMENT DETAILS
A3.8
 PLOT: 3"=1' SHEET

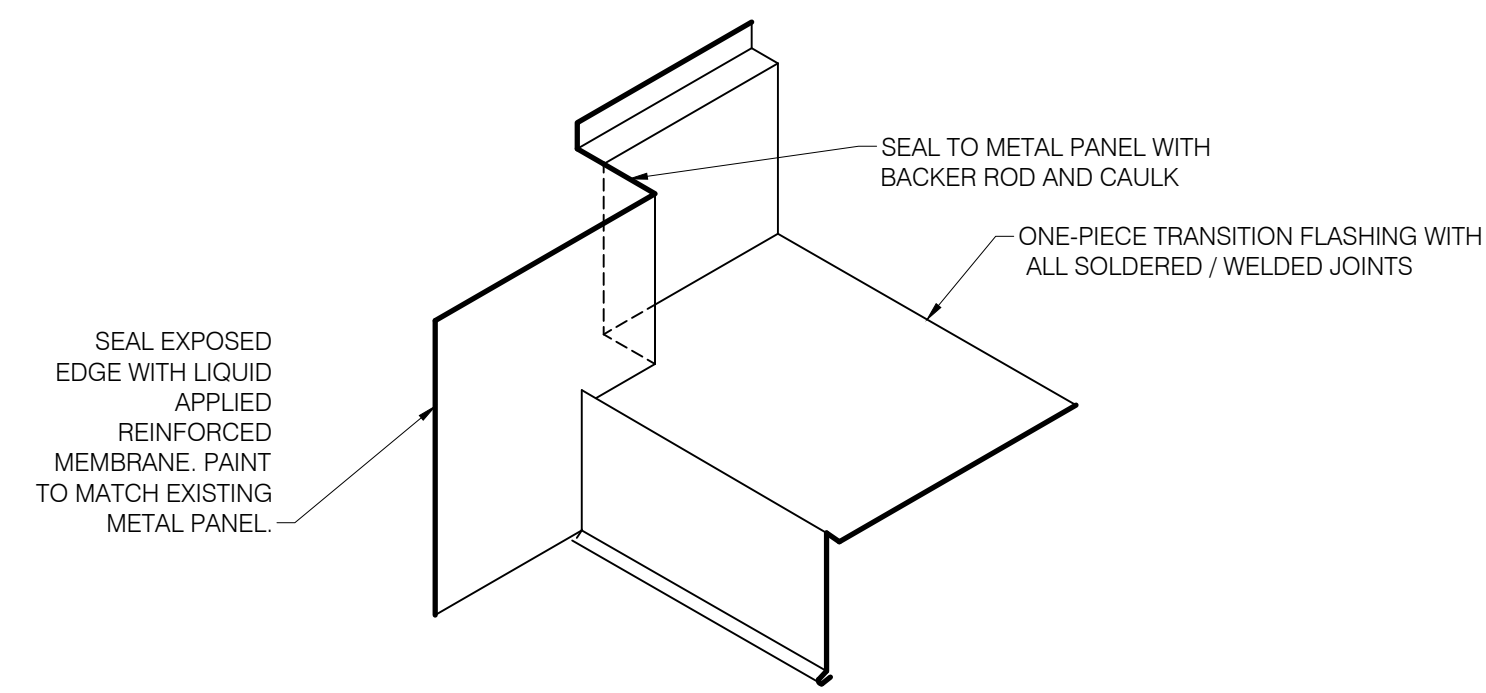
NOTE A:
AT OUTSIDE CORNER TRANSITION FLASHING FULLY SOLDER ALL NON-MOVING JOINTS.



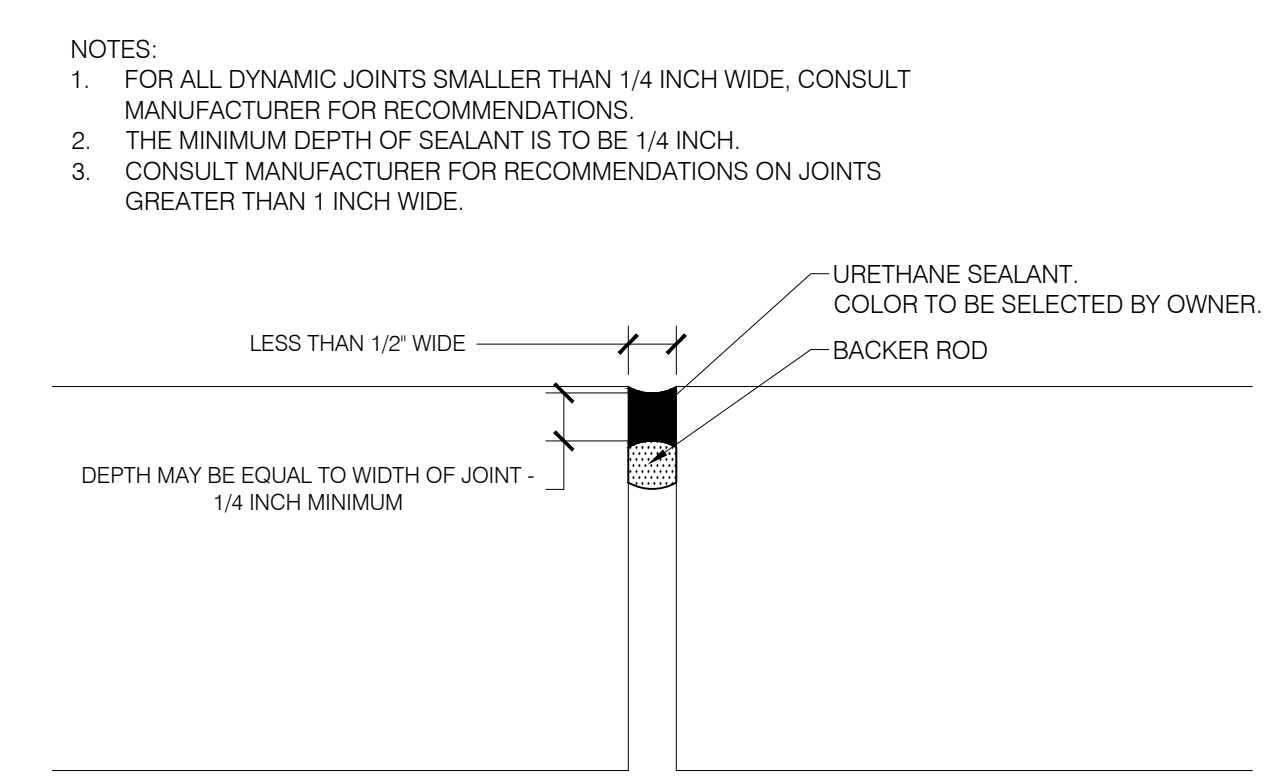
A
A-3.9
ROOF HATCH SECTION
SCALE: NTS



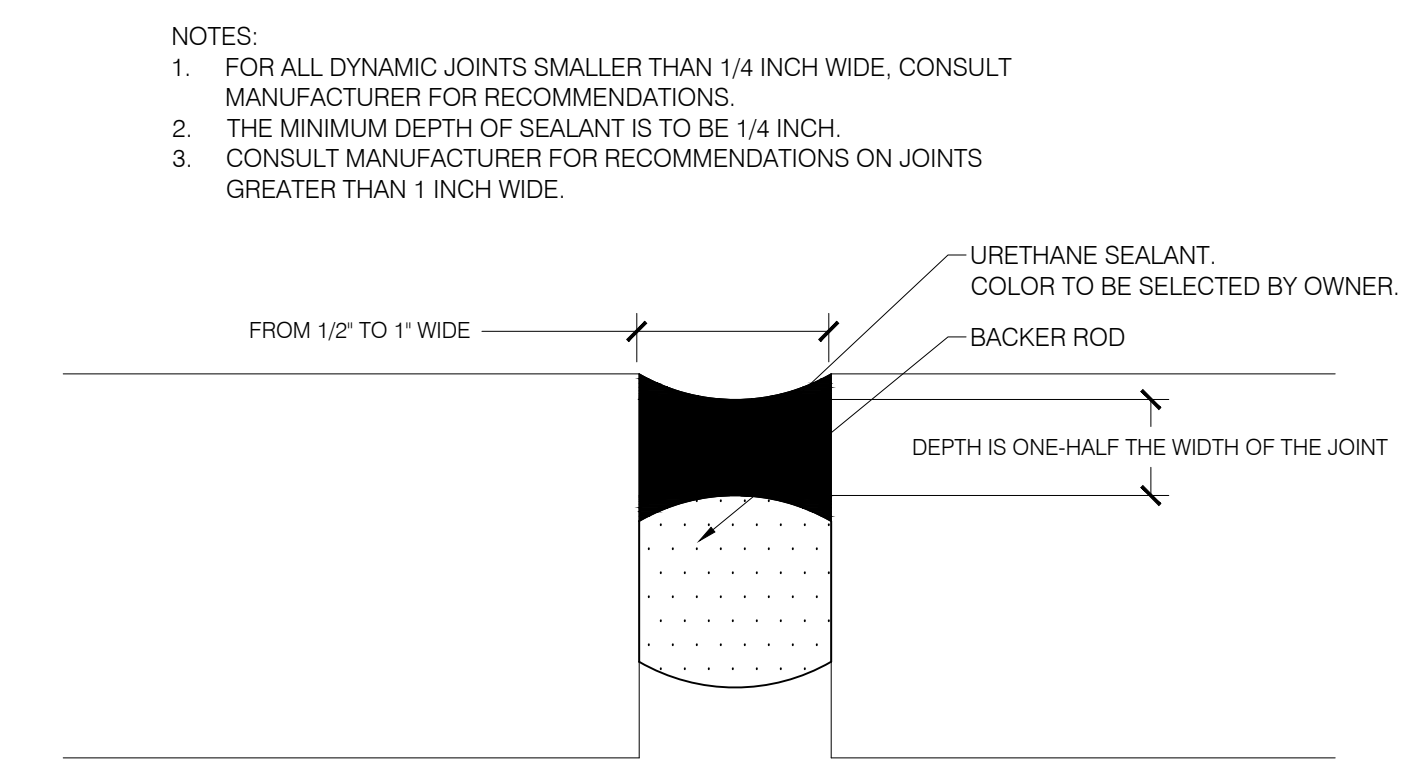
B
A-3.9
METAL EDGE TRANSITION DETAILS AT COLUMN 5 & 7
SCALE: NTS



D
A-3.9
METAL EDGE TO WALL TRANSITION METAL DETAILS
SCALE: NTS



E
A-3.9
TYP. SEALANT JOINT FOR JOINTS LESS THAN 1/2 INCH WIDE
SCALE: NTS



F
A-3.9
TYP. SEALANT JOINT FOR JOINTS 1/2 INCH TO 1 INCH WIDE
SCALE: NTS

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000
FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.

COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI. FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLOGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THICK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.

DOWNPOUT: 240 ALUMINUM, 600 ALUMINUM AT BOTTOM 6', PRIMED AND PAINTED TO MATCH EXISTING.

DOWNPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304

EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE 316.

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316

GUTTER BRACKET: 3/8" X 1" BENT STAINLESS STEEL, TYPE 316

GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304

METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316

METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304

TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200

ROOF HATCH: BASIS OF DESIGN: BILCO TYPE 'S-50TB' ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

JOINT SEALANTS SPECIFICATION SECTION 07920

BACKER ROD: CLOSED-CELL BACKER ROD.

BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT, ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT, ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT
SOLID WASTE ADMINISTRATION BUILDING
ORLANDO, FLORIDA
ROOFING REPLACEMENT PROJECT

PROJECT NUMBER: 18-093

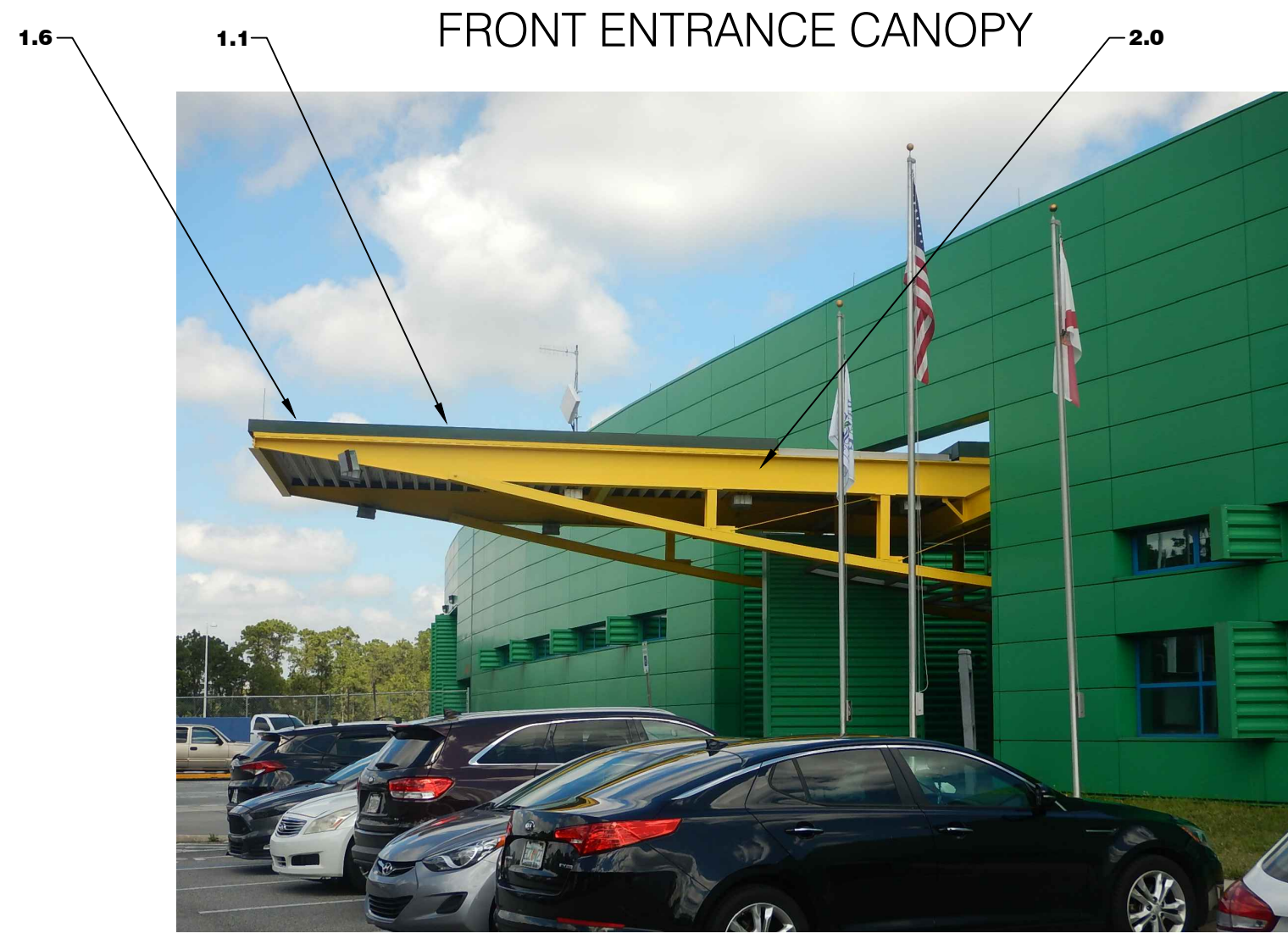
JAY AMMON ARCHITECT, INC.
3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779
(407) 333-1977 • FAX: (407) 333-6686 • E-MAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: NHR PROJECT NUMBER: 18-093
APPROVED BY: JPA PHASE: CONSTRUCTION DOCS
ENGINEER: DATE: MAY 8, 2019

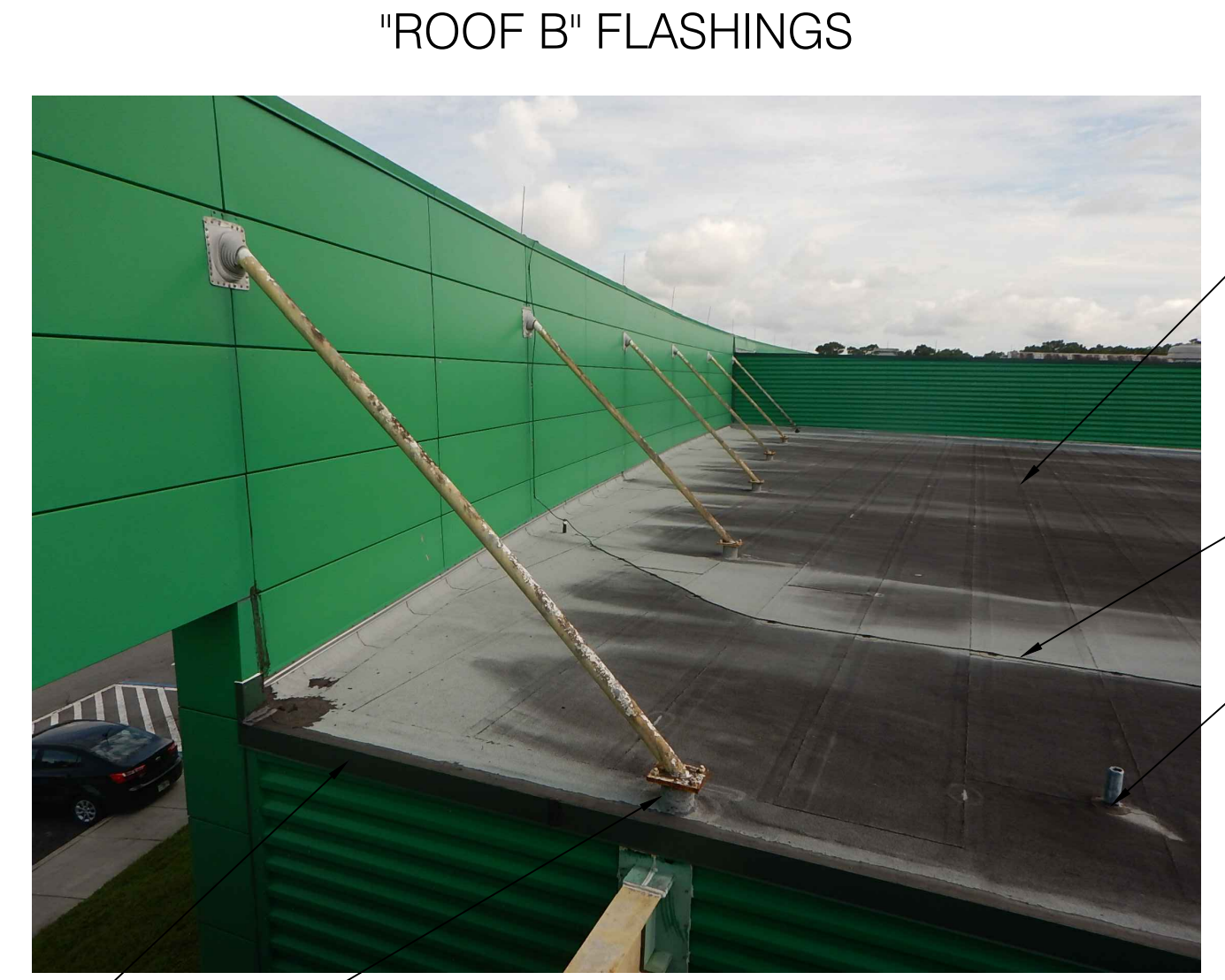
ROOF REPLACEMENT DETAILS A3.9

PLOT: 3"=1" SHEET



FRONT ENTRANCE CANOPY

1 PHOTOGRAPH 1
A5.1



"ROOF B" FLASHINGS

2 PHOTOGRAPH 2
A5.1



TYPICAL GUTTER EDGE

3 PHOTOGRAPH 3
A5.1



EDGE TRANSITION AT GUTTER END

4 PHOTOGRAPH 4
A5.1



EDGE TRANSITION AT GUTTER END

5 PHOTOGRAPH 5
A5.1



TRANSITION AT SKYLIGHT

6 PHOTOGRAPH 6
A5.1



ROOF TRANSITION AT RADIUS WALL

7 PHOTOGRAPH 7
A5.1



ROOF TRANSITION AT RADIUS WALL

8 PHOTOGRAPH 8
A5.1

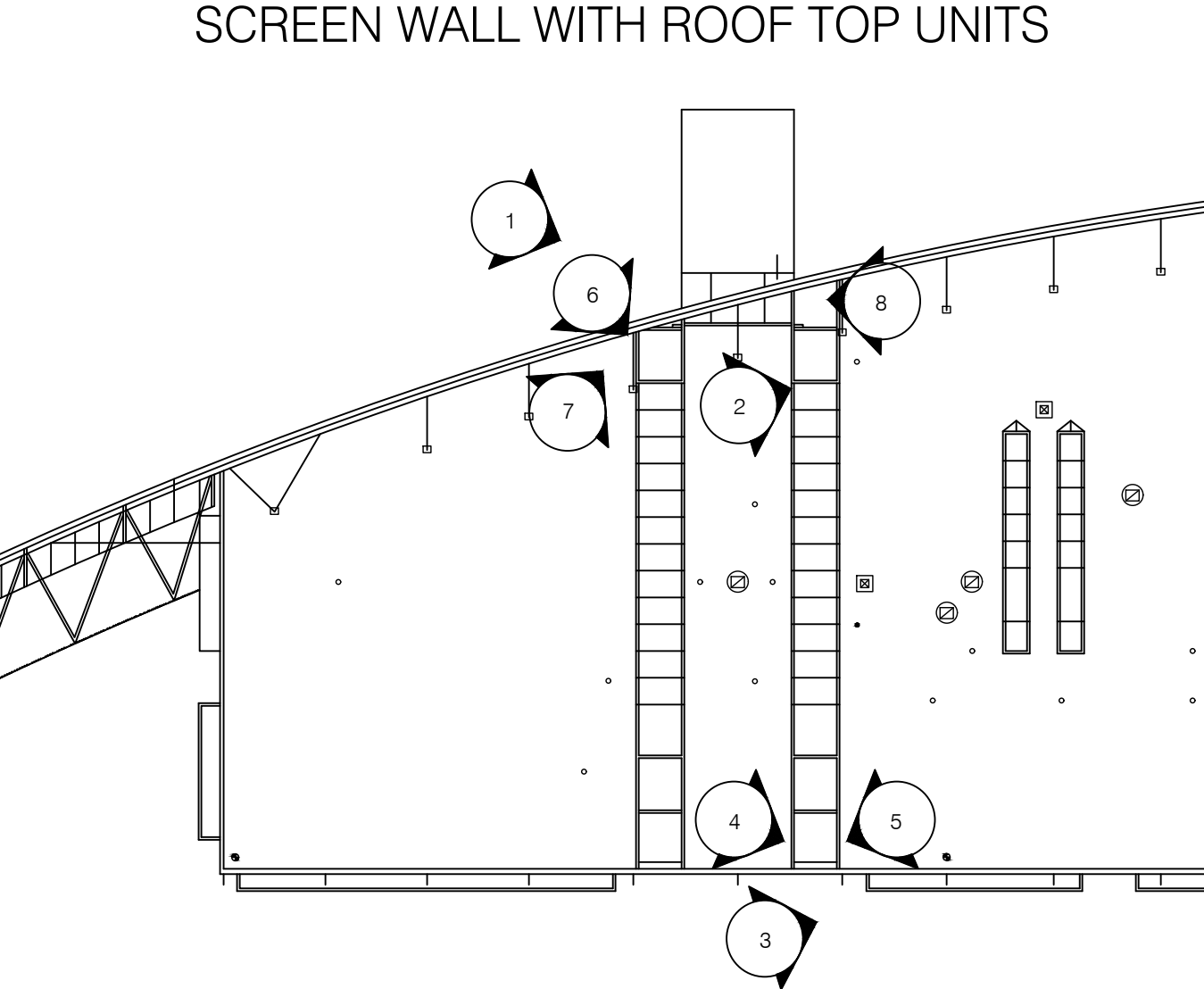


PHOTO LOCATION PLAN



PLAN NORTH

SCOPE OF WORK:

- 1.0 ROOFING ASSEMBLY TYPE 1 - ROOFING REPLACEMENT - LOW SLOPE ROOF AREAS:**
- 1.1 ROOFING REMOVAL:** REMOVE EXISTING ROOFING SYSTEM DOWN TO THE TOP SURFACE OF THE EXISTING SLOPED STRUCTURAL METAL DECK. REMOVE ANY DAMAGED OR DETERIORATED METAL DECK. REMOVE ALL ASBESTOS CONTAINING MATERIALS AND PROPERLY DISPOSE OF ACCORDING TO OWNER AND CURRENT GOVERNMENT REGULATIONS. OBTAIN AND SUBMIT REPORT FROM ORANGE COUNTY GOVERNMENT PRIOR TO DEMOLITION. THE ROOFING COMPONENTS TO BE REMOVED ARE LIMITED TO ALL EXISTING COATINGS, MODIFIED BITUMEN ROOF MEMBRANES, COVER BOARD, SINGLE-PLY ROOF MEMBRANE, RIGID POLYISOCYANURATE INSULATION, METAL FLASHINGS, RELATED FASTENERS, AND CANTS.
- 1.2 TEMPORARY REMOVAL:** TEMPORARILY REMOVE THE FOLLOWING COMPONENTS AND REINSTALL DURING THE ROOFING REPLACEMENT PROJECT AS REQUIRED TO PROVIDE A WATER TIGHT INSTALLATION. REPAIR OR REPLACE THE COMPONENTS AS REQUIRED TO MEET OR EXCEED THE LEVEL OF PERFORMANCE THAT WAS PRESENT PRIOR TO REMOVAL OF THE COMPONENT. COMPONENTS INCLUDE ELECTRICAL JUNCTION BOXES, CONDUITS, ANTENNAS, SECURITY CAMERAS, ROOF MOUNTED LIGHTS, POWER VENTS, ELEVATED HVAC EQUIPMENT AND OTHER MISCELLANEOUS ELECTRICAL COMPONENTS. REINSTALL EXISTING SKYLIGHTS AFTER THE INSTALLATION OF NEW ROOFING ASSEMBLY COMPONENTS.
- 1.3 EXISTING SKYLIGHT CURBS:** REMOVE EXISTING DESIGNATED SKYLIGHTS FROM ROOF SURFACES. SEE STRUCTURAL DRAWINGS FOR DECK AND FRAMING INSTALLATION. INSTALL RIGID INSULATION AND COVER BOARD FLUSH TO ADJACENT ROOF SURFACES AS SHOWN ON APPROVED DRAWINGS.
- 1.4 PIPE PENETRATIONS AND EQUIPMENT:** WHERE DESIGNATED ON THE DRAWINGS TO REMAIN, REMOVE METAL FLASHINGS AT THE EXISTING PLUMBING VENTS. EXTEND EXISTING PLUMBING VENTS AS REQUIRED TO MAINTAIN A MINIMUM HEIGHT OF 8 INCHES ABOVE THE NEW FINISHED ROOF SURFACE. INSTALL A LIQUID-APPLIED FLASHING SYSTEM BY THE MANUFACTURER OF THE ROOF MEMBRANE AT PIPE PENETRATIONS.
- 1.5 ENGINEERING:** CONTRACTOR TO COMPLETE PULL TESTS OF THE PROPOSED ROOF SYSTEM PER TAB 124 CRITERIA. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE TESTED NOA FOR EACH ROOF WIND ZONE. SUBMIT THE PULL TEST RESULTS AND THE ENGINEER COVER BOARD STRENGTH CALCULATIONS TO THE ARCHITECT AND MANUFACTURER FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE STRUCTURAL DRAWINGS FOR WIND UPLIFT PRESSURES.
- 1.6 NEW MODIFIED BITUMEN ROOFING MEMBRANE ASSEMBLY:** REMOVE EXISTING WOOD BLOCKING AND INSTALL NEW WOOD BLOCKING AND SIZED AS REQUIRED TO ACCOMMODATE THICKNESS OF THE NEW ROOF SYSTEM. SECURE NEW WOOD BLOCKING WITH NEW #14 SHEET METAL SCREWS AT 6" O.C. TO EXISTING STRUCTURAL METAL FRAMING. INSTALL TWO LAYERS OF FLAT POLYISOCYANURATE TO MEET A THERMAL RESISTANCE OF R-25.0. MECHANICALLY ATTACH A CEMENTITIOUS COVER BOARD THROUGH THE POLYISOCYANURATE INSULATION INTO THE METAL DECK TO MEET OR EXCEED PROJECT WIND UPLIFT CRITERIA. PRIME COVER BOARD AS REQUIRED BY ROOF MEMBRANE MANUFACTURER AND TORCH ONE-PLY OF SMOOTH SURFACED MODIFIED BITUMEN BASE SHEET OVER THE NEW COVER BOARD. TORCH APPLY A SMOOTH SURFACED MODIFIED BITUMEN INNER PLY OVER BASE SHEET. TORCH APPLY A GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER INNER PLY PER ROOF MEMBRANE MANUFACTURER'S RECOMMENDATIONS. TORCH APPLY ONE SMOOTH SURFACED MODIFIED BITUMEN BASE FLASHING PLY AND LIQUID APPLIED REINFORCED FLASHING WITH EMBEDDED GRANULARS TO MATCH CAP SHEET. SEE DETAIL A3.1. SEE SPECIFICATION SECTION 075216.
- 1.7 ROOF DRAINAGE COMPONENTS:** INSTALL NEW .050" MILL FINISHED ALUMINUM GUTTERS AND DOWNSPOUTS SIZED TO MEET CURRENT BUILDING CODE REQUIREMENTS. NEW GUTTER SYSTEM TO MEET ANSISPRI ES-1 REQUIREMENTS. PRIME AND PAINT GUTTER DOWNSPOUTS TO MATCH ADJACENT BUILDING SURFACES. PROVIDE NEW SPLASH BLOCKS WHERE DOWNSPOUT DOES NOT CONNECT TO SUBGRADE DRAIN LINE.
- 1.8 METAL EDGE FLASHING INSTALLATION:** INSTALL NEW PRE-MANUFACTURED ALUMINUM METAL EDGE FLASHING TO MEET ANSISPRI ES-1 REQUIREMENTS. INSTALL FULLY WELDED/SOLDERED NEW PIECE TRANSITION FLASHINGS AT CORNERS, TRANSITIONS AND TERMINATIONS. RESECURE ALL WOOD BLOCKING PER PROJECT WIND UPLIFT PRESSURES AND ES-1 REQUIREMENTS. PRIME AND PAINT METAL EDGE TO MATCH ADJACENT BUILDING SURFACES.
- 1.9 COUNTERFLASHING INSTALLATION:** REMOVE ALL EXISTING COUNTERFLASHINGS AND WIND CLIPS. FABRICATE AND INSTALL NEW STAINLESS STEEL FLASHINGS WHERE INDICATED AND WHERE REQUIRED FOR A TOTAL ROOFING ASSEMBLY. SOLDER ALL TRANSITION FLASHING JOINTS NOT REQUIRED TO THERMALLY EXPAND AND CONTRACT. SEE SPECIFICATION SECTION 076200.
- 1.10 ROOF WALK PADS:** INSTALL NEW MODIFIED BITUMEN ROOF WALKWAY PADS AT DESIGNATED LOCATIONS. COLOR OF NEW WALKPADS TO BE SELECTED BY OWNER IN FIELD.

- 2.0 EXISTING SKYLIGHT ASSEMBLIES:**
- 2.1 SKYLIGHT REMOVAL:** REMOVE ALL SKYLIGHT COMPONENTS FROM THE EXISTING BUILDING STRUCTURE. SKYLIGHT COMPONENTS INCLUDE BUT ARE NOT LIMITED TO SKYLIGHT FRAMES, GLAZING, FLASHINGS, GUTTER SYSTEMS, SEALANTS AND FASTENERS. NOTIFY ARCHITECT OF ANY DETERIORATED SKYLIGHT FRAMING.
- 2.2 SKYLIGHT IN-FILL:** INSTALL NEW METAL FRAMING AND NEW METAL DECK OVER EXISTING SKYLIGHT OPENINGS AS SHOWN ON STRUCTURAL DRAWINGS.
- 2.3 INTERIOR FINISHES:** PREPARE, PRIME AND PAINT THE EXPOSED UNDERSIDE SURFACES OF ALL NEW STRUCTURAL COMPONENTS TO MATCH ADJACENT INTERIOR FINISHES. PAINT ALL EXPOSED ROOF SYSTEM FASTENERS TO MATCH METAL DECK SURFACES.
- 3.0 EXPANSION JOINTS:**
- 3.1 NEW EXPANSION JOINT COVER INSTALLATION:** INSTALL NEW 22 GAUGE STAINLESS STEEL ROOF AND WALL EXPANSION JOINT COVERS. INSTALL ONE PIECE TRANSITION FLASHINGS WITH ALL SOLDERED / WELDED JOINTS AT ALL TERMINATIONS AND TRANSITIONS WITH ADJACENT BUILDING ENVELOPE COMPONENTS.
- 4.0 GUARD RAIL INSTALLATION:**
- 4.1 ROOF TOP GUARD RAIL INSTALLATION:** AT ALL CURBED ROOF MOUNTED EQUIPMENT WITHIN 10'-0" OF THE PARAPET WALL ASSEMBLY, INSTALL NEW KEELGUARD ROOF TOP GUARD RAIL SYSTEM BY KEE SAFETY INC. CONTRACTOR TO PROVIDE SEALED ENGINEERED SHOP DRAWINGS OF GUARDRAIL SYSTEMS. SEE ROOF PLANS FOR GUARDRAIL INSTALLATION.
- 5.0 LIGHTNING PROTECTION COMPONENTS:**
- 5.1 LIGHTNING PROTECTION REINSTALLATION:** TEMPORARILY REMOVE ALL EXISTING LIGHTNING AIR TERMINALS AND CABLES FROM THE SIDE SURFACES OF THE EXISTING METAL COPINGS, PARAPET WALLS AND ANY OTHER ROOF SURFACES WHICH ARE ATTACHED TO COMPONENTS DESCRIBED IN THIS SCOPE OF WORK. REINSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA-780 BY A LICENSED CONTRACTOR WITH A MINIMUM 5 YEARS OF EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS. MAINTAIN OPERATION OF LIGHTNING PROTECTION SYSTEM DURING CONSTRUCTION. RE-CERTIFY THE REINSTALLED LIGHTNING PROTECTION SYSTEM.
- 6.0 ROOF HATCH:**
- 6.1 ROOF HATCH REPLACEMENT:** REMOVE EXISTING ROOF HATCH AND INSTALL NEW BILCO TYPE S STAINLESS STEEL ROOF HATCH. INSTALL NEW STAINLESS STEEL LATCHING HARDWARE BY BILCO AT ROOF HATCH. INSTALL SKIRT FLASHING AT NEW ROOF HATCH AND BASE FLASHING INTERFACE.

CONSTRUCTION DOCUMENTS
ORANGE COUNTY GOVERNMENT
SOLID WASTE ADMINISTRATION BUILDING
ORLANDO, FLORIDA
ROOFING REPLACEMENT PROJECT
PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC.
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REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: JAR PROJECT NUMBER: 18-093
APPROVED BY: JAR PHASE: CONSTRUCTION DOCS
ENGINEER: _____ DATE: MAY 8, 2019

PHOTOGRAPHS

PLOT: NS.F.6 SHEET **A5.1**

BASE FLASHING



1 PHOTOGRAPH 1
A5.2

METAL EDGE AT PENETRATING JOIST



4 PHOTOGRAPH 4
A5.2

DIAGONAL BRACING PENETRATION AT EXPANSION JOINT CURB



7 PHOTOGRAPH 7
A5.2

"ROOF A" BASE FLASHING AND TRANSITIONS



2 PHOTOGRAPH 2
A5.2

ROOF PENETRATION UNDER RADIUS WALL



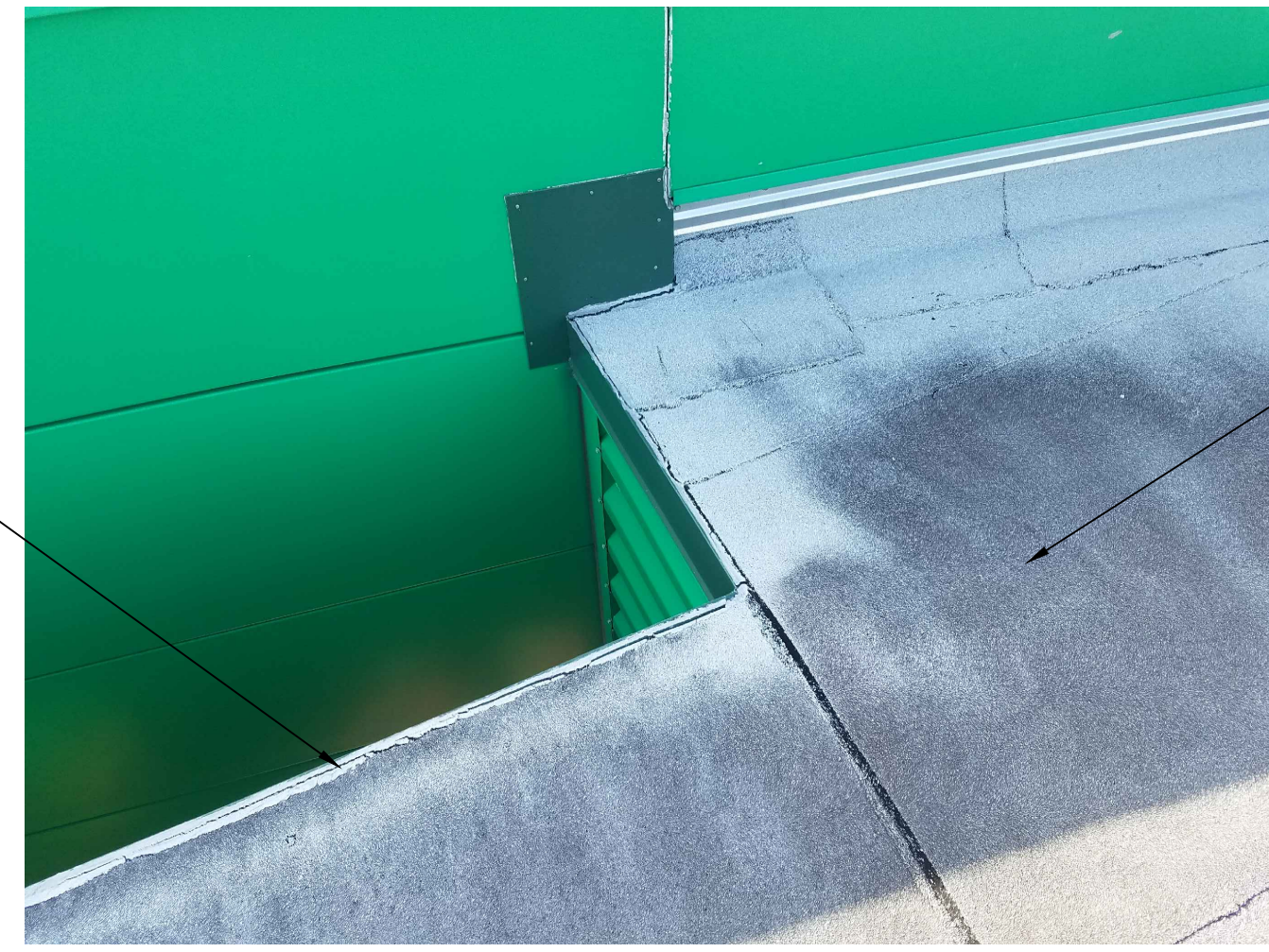
5 PHOTOGRAPH 5
A5.2

EXPANSION JOINT TRANSITION FROM "ROOF A" TO "ROOF B"



8 PHOTOGRAPH 8
A5.2

ROOF EDGE TRANSITION



3 PHOTOGRAPH 3
A5.2

ROOF PENETRATION AT CORNER OF EX. SKYLIGHT



6 PHOTOGRAPH 6
A5.2

SCREEN WALL WITH ROOF TOP UNITS

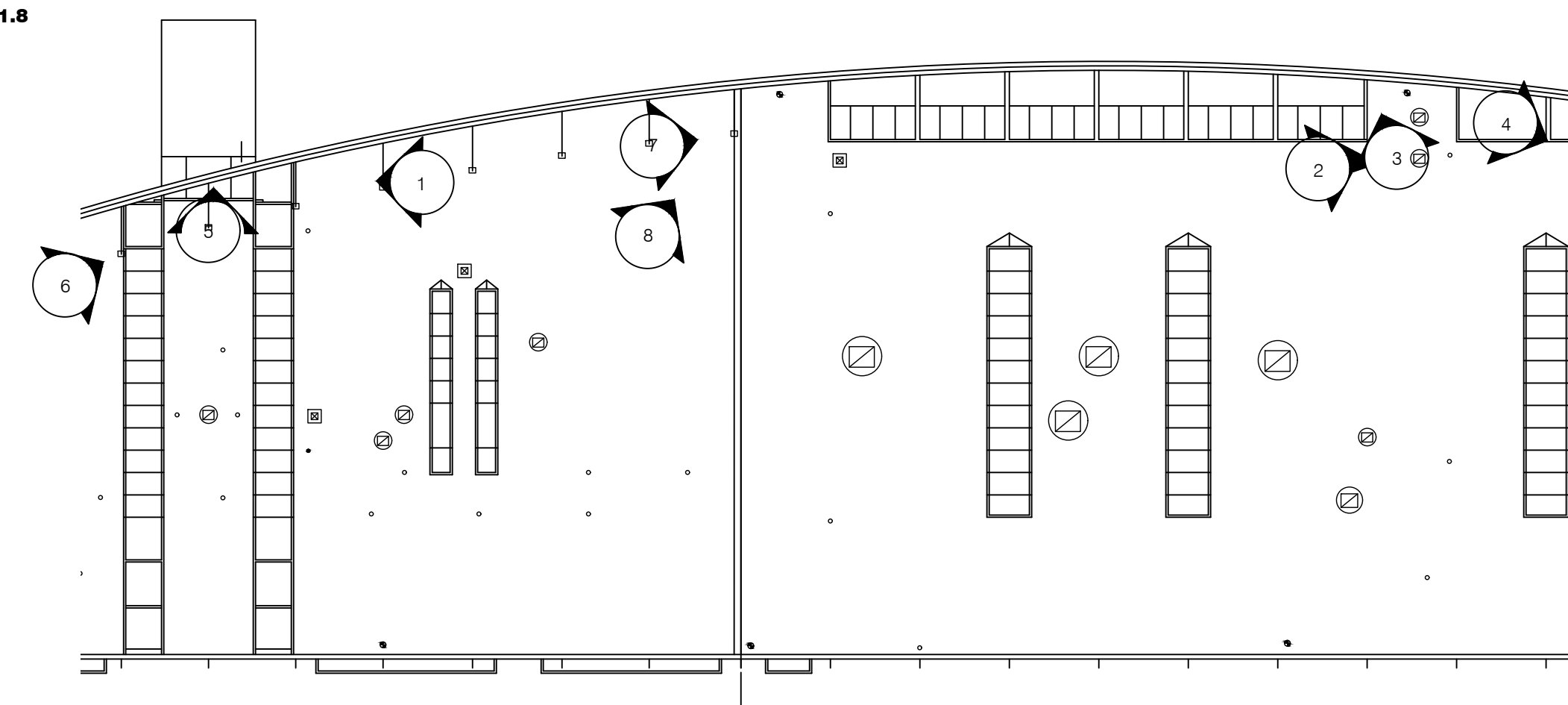


PHOTO LOCATION PLAN



SCOPE OF WORK:

- 1.0 ROOFING ASSEMBLY TYPE 1 - ROOFING REPLACEMENT - LOW SLOPE ROOF AREAS:** REMOVE THE EXISTING SLOPED STRUCTURAL METAL DECK. REMOVE ANY DAMAGED OR DETERIORATED METAL DECK. REMOVE ALL ASBESTOS CONTAINING MATERIALS AND PROPERLY DISPOSE OF ACCORDING TO OWNER AND CURRENT GOVERNMENT REQUIREMENTS. OBTAIN AND REPORT FROM ORANGE COUNTY GOVERNMENT PRIOR TO DEMOLITION. THE ROOFING COMPONENTS TO BE REMOVED ARE LIMITED TO ALL EXISTING COATINGS, MODIFIED BITUMEN ROOF MEMBRANES, COVER BOARD, SINGLE-PLY ROOF MEMBRANE, RIGID POLYISOCYANURATE INSULATION, METAL FLASHINGS, RELATED FASTENERS, AND CANTS.
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- 1.4 ENGINEERING:** CONTRACTOR TO COMPLETE PULL TESTS OF THE PROPOSED ROOF SYSTEM PER TAS 124 CRITERIA. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE TESTED NOA FOR EACH ROOF WIND ZONE. SUBMIT THE PULL TEST RESULTS AND THE ENGINEER COVER BOARD SPACING CALCULATIONS TO THE ARCHITECT AND MANUFACTURER FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE STRUCTURAL DRAWINGS FOR WIND UPLIFT PRESSURES.
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- 3.0 EXPANSION JOINTS:**
- 3.1 NEW EXPANSION JOINT COVER INSTALLATION:** INSTALL NEW 22 GAUGE STAINLESS STEEL ROOF AND WALL EXPANSION JOINT COVERS. INSTALL ONE PIECE TRANSITION FLASHINGS WITH ALL SOLDERED / WELDED JOINTS AT ALL TERMINATIONS AND TRANSITIONS WITH ADJACENT BUILDING ENVELOPE COMPONENTS.
- 4.0 GUARD RAIL INSTALLATION:**
- 4.1 ROOF TOP GUARD RAIL INSTALLATION:** AT ALL CURBED ROOF MOUNTED EQUIPMENT WITHIN 10'-0" OF THE PARAPET WALL ASSEMBLY, INSTALL NEW KEELGUARD ROOF TOP GUARD RAIL SYSTEM BY KEE SAFETY INC. CONTRACTOR TO PROVIDE SEALED ENGINEERED SHOP DRAWINGS OF GUARDRAIL SYSTEMS. SEE ROOF PLANS FOR GUARDRAIL INSTALLATION.
- 5.0 LIGHTNING PROTECTION COMPONENTS:**
- 5.1 LIGHTNING PROTECTION REINSTALLATION:** TEMPORARILY REMOVE ALL EXISTING LIGHTNING AIR TERMINALS AND CABLES FROM THE SIDE SURFACES OF THE EXISTING METAL COPINGS, PARAPET WALLS AND ANY OTHER ROOF SURFACES WHICH ARE ATTACHED TO COMPONENTS DESCRIBED IN THIS SCOPE OF WORK. REINSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA-780 BY A LICENSED CONTRACTOR WITH A MINIMUM 5 YEARS OF EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS. MAINTAIN OPERATION OF LIGHTNING PROTECTION SYSTEM DURING CONSTRUCTION. RE-CERTIFY THE REINSTALLED LIGHTNING PROTECTION SYSTEM.
- 6.0 ROOF HATCH:**
- 6.1 ROOF HATCH REPLACEMENT:** REMOVE EXISTING ROOF HATCH AND INSTALL NEW BILCO TYPE S STAINLESS STEEL ROOF HATCH. INSTALL NEW STAINLESS STEEL LATCHING HARDWARE BY BILCO AT ROOF HATCH. INSTALL SKIRT FLASHING AT NEW ROOF HATCH AND BASE FLASHING INTERFACE.

CONSTRUCTION DOCUMENTS
ORANGE COUNTY GOVERNMENT
SOLID WASTE ADMINISTRATION BUILDING
ORLANDO, FLORIDA
ROOFING REPLACEMENT PROJECT

PROJECT NUMBER: 18-093

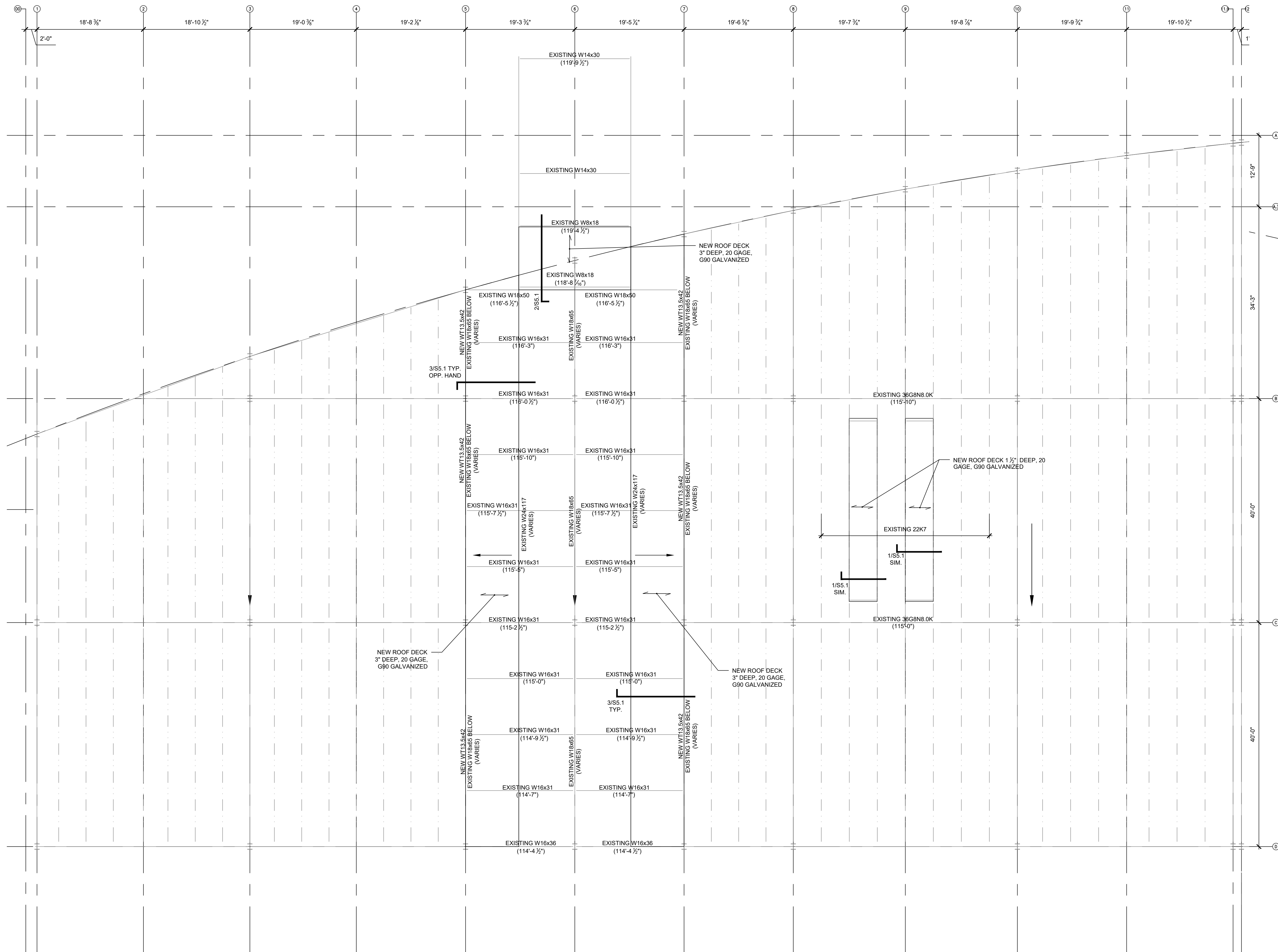
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REVISIONS		
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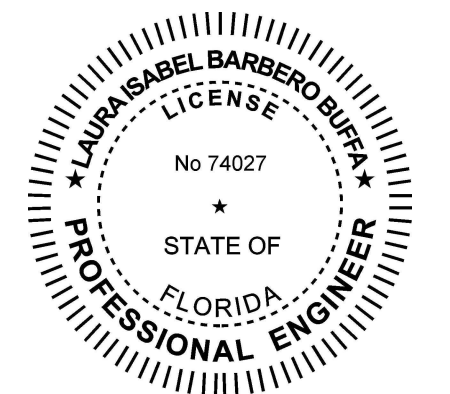
DRAWN BY: JAR PROJECT NUMBER: 18-093
APPROVED BY: JAR PHASE: CONSTRUCTION DOCS
ENGINEER: _____ DATE: MAY 8, 2019

ROOF FRAMING NOTES

1. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. TOP OF STEEL ELEVATIONS INDICATED AS (X'-X").
3. COORDINATE WITH ARCH. DRAWINGS. SEE ARCH. DRAWINGS FOR REQUIRED SLOPES.
4. GC TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO SHOP DRAWINGS AND STEEL FABRICATION.



CERTIFICATE OF AUTHORIZATION No. 27343
LAURA BARBERO-BUFFA, P.E. No. 74027
1214 EAST CONCORD STREET
ORLANDO, FLORIDA 32803
P. 407.377.7227



CONSTRUCTION DOCUMENTS
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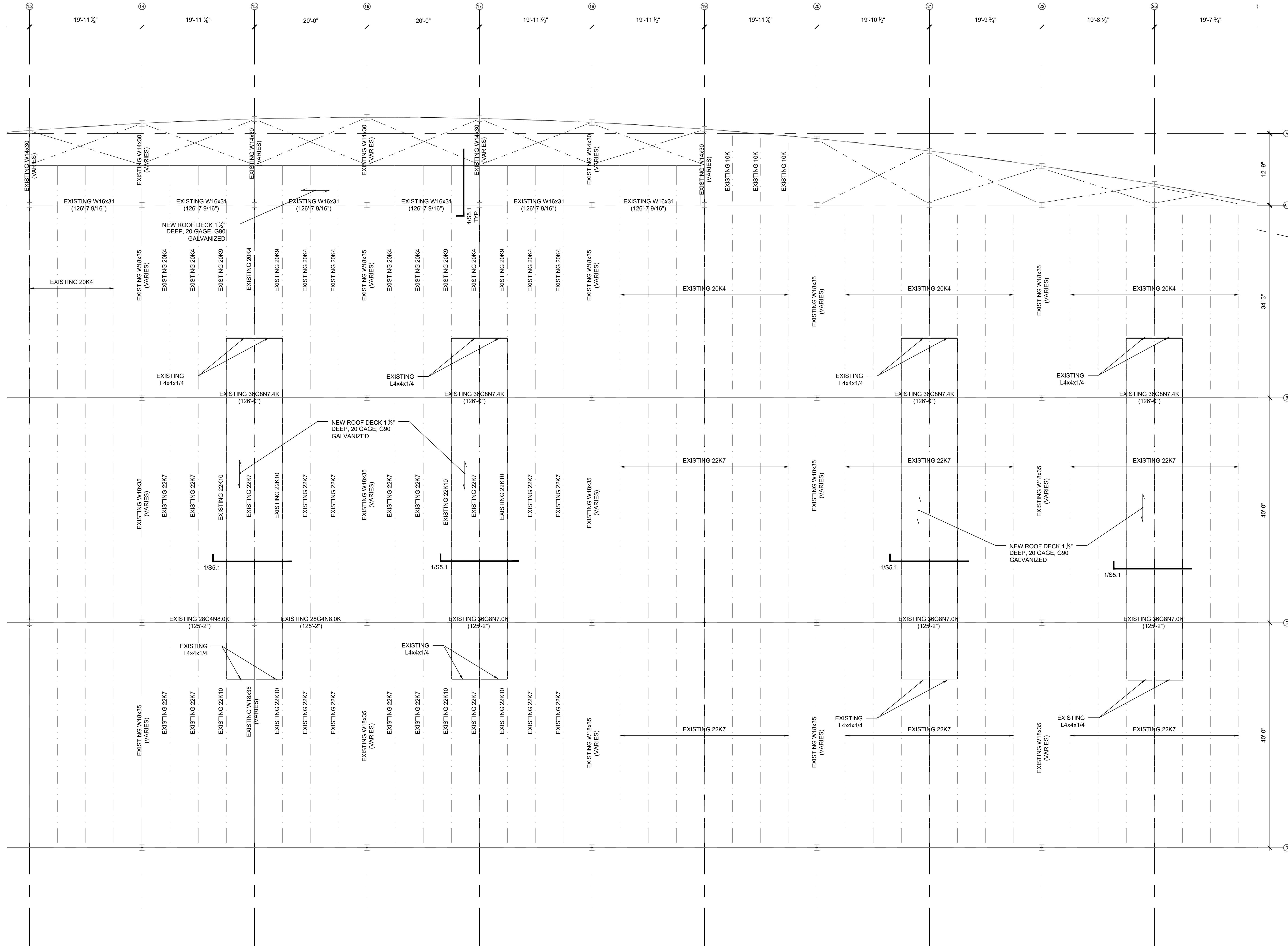
NUMBER	TYPE	DATE

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APPROVED BY: LBB PHASE: CONSTRUCTION DOCS
ENGINEER: LBB DATE: MAY 8, 2019

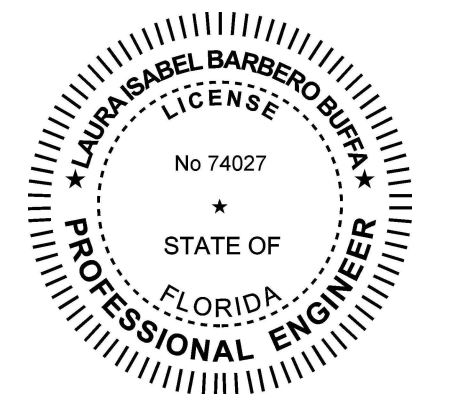
PARTIAL ROOF FRAMING
PLAN
S2.1
PLOT: N.T.S. SHEET

ROOF FRAMING NOTES

1. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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PROJECT NUMBER: 18-093

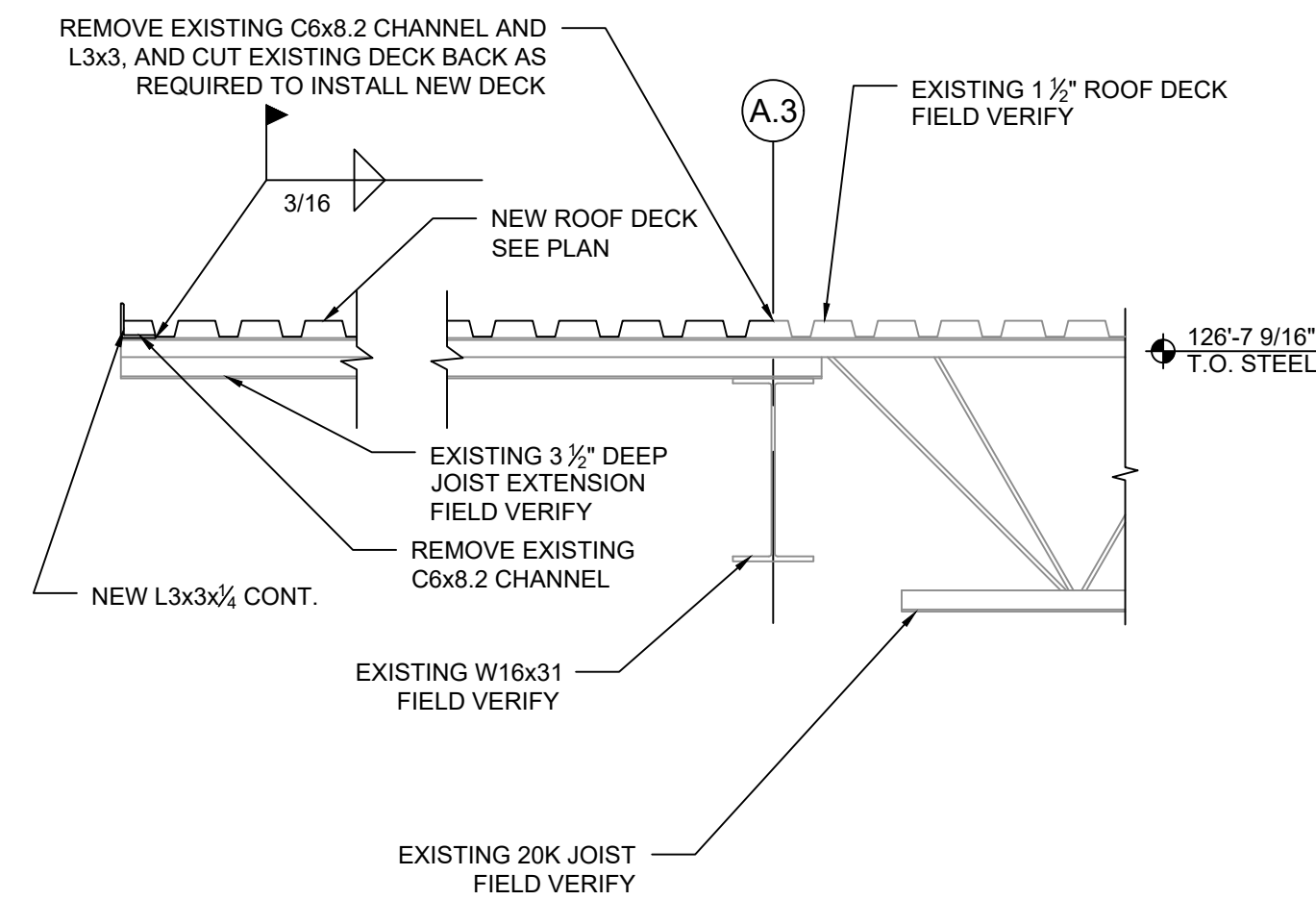
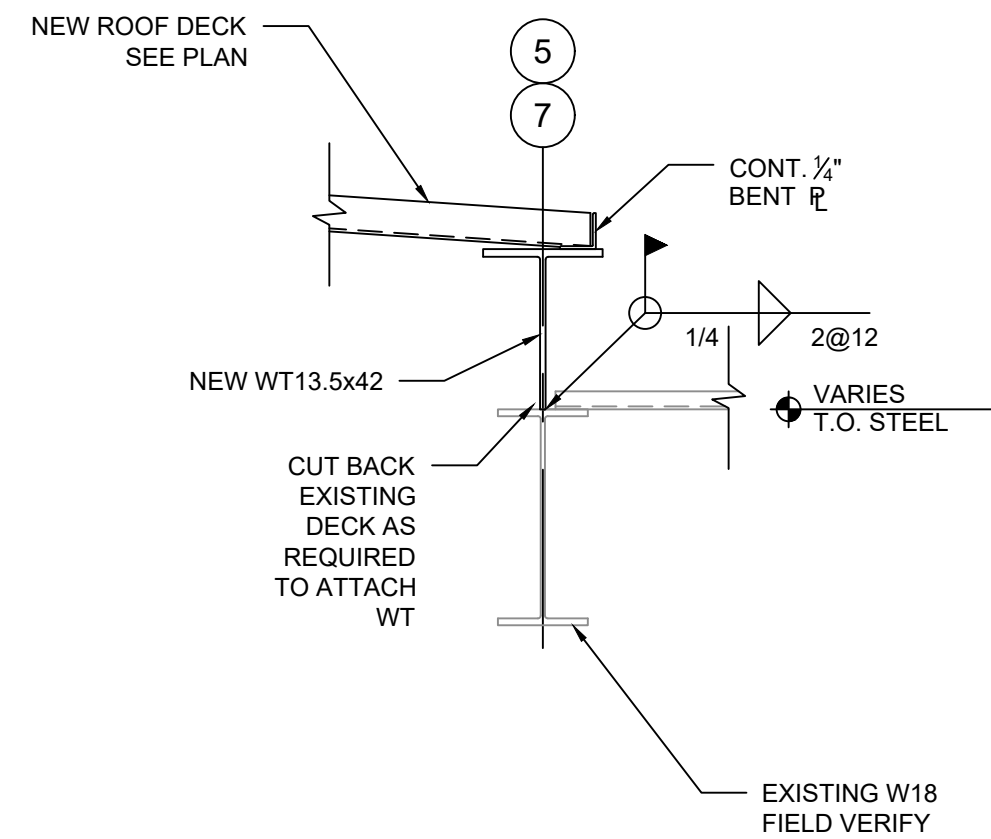
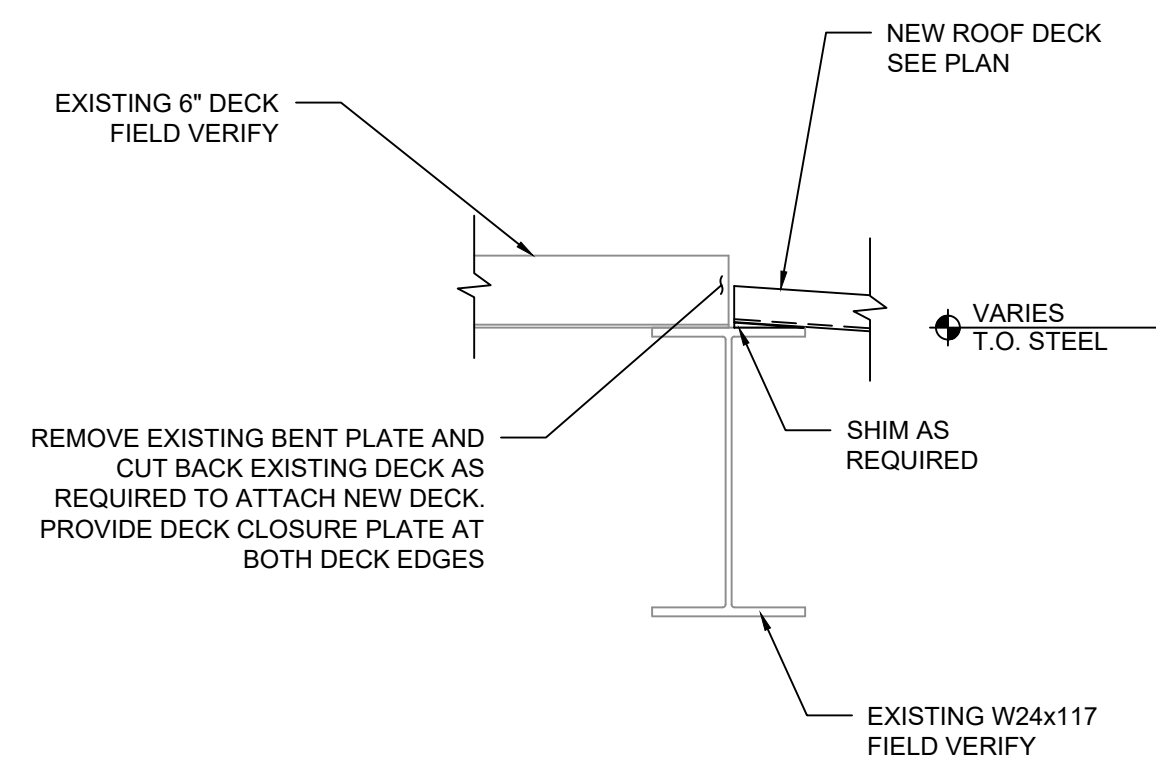
JAY AMMON ARCHITECT, INC.
3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779
(407) 333-1977 • FAX: (407) 333-6866 • E-MAIL: JAY@JAYAMMON.COM

NUMBER	TYPE	DATE

REVISIONS

DRAWN BY: MR PROJECT NUMBER: 18-093
APPROVED BY: LBB PHASE: CONSTRUCTION.DOCX
ENGINEER: LBB DATE: MAY 8, 2019

PARTIAL ROOF FRAMING
PLAN
S2.2

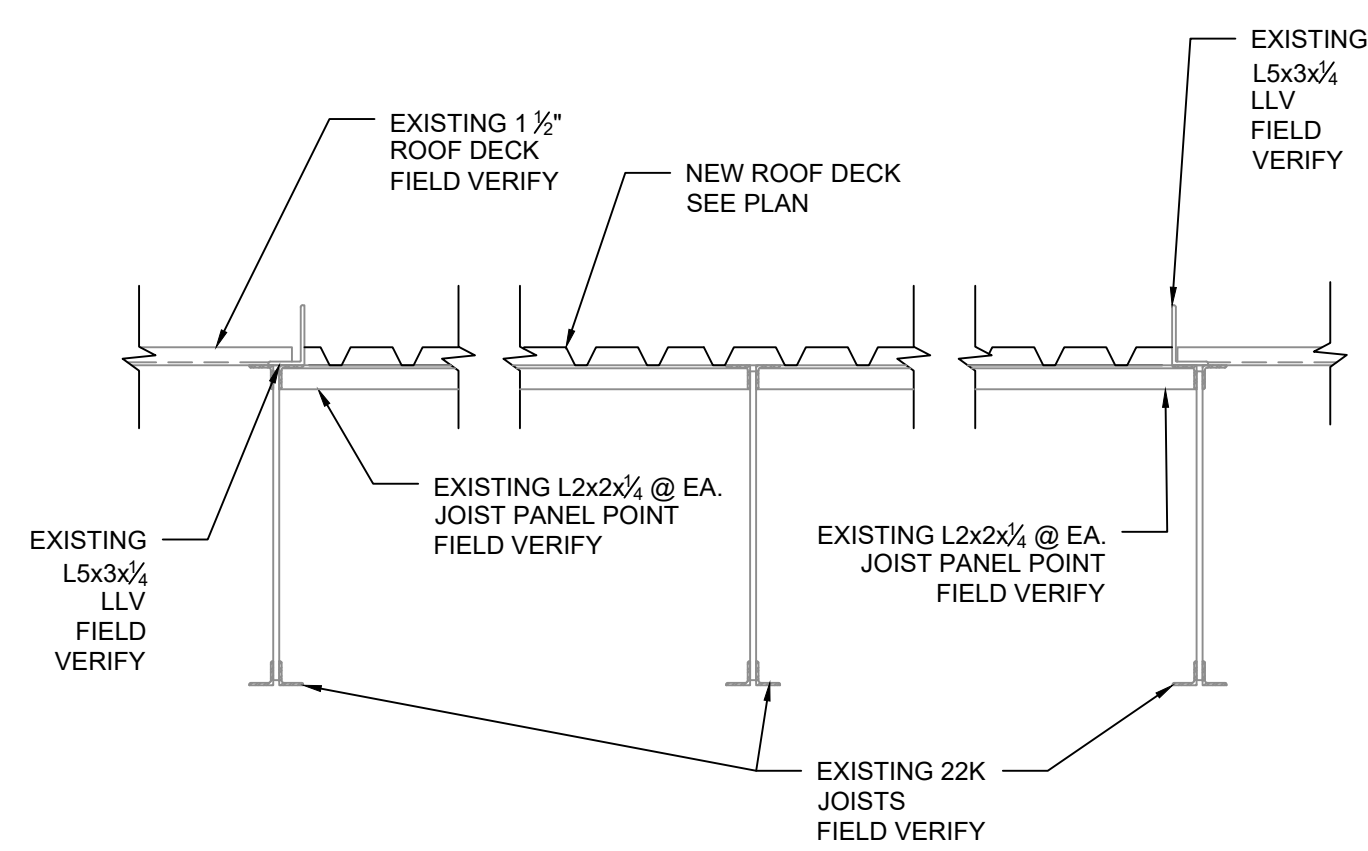


- NOTES:
- COORD. W/ARCH DRAWINGS.
 - GC TO FIELD VERIFY EXISTING TOP OF STEEL ELEVATIONS PRIOR TO SHOP DRAWING SUBMITTAL AND STEEL FABRICATION. ANY DISCREPANCIES ARE TO BE REPORTED TO EOR.
 - PROVIDE 1 1/2" MIN. BEARING AND ENDS OF DECK.

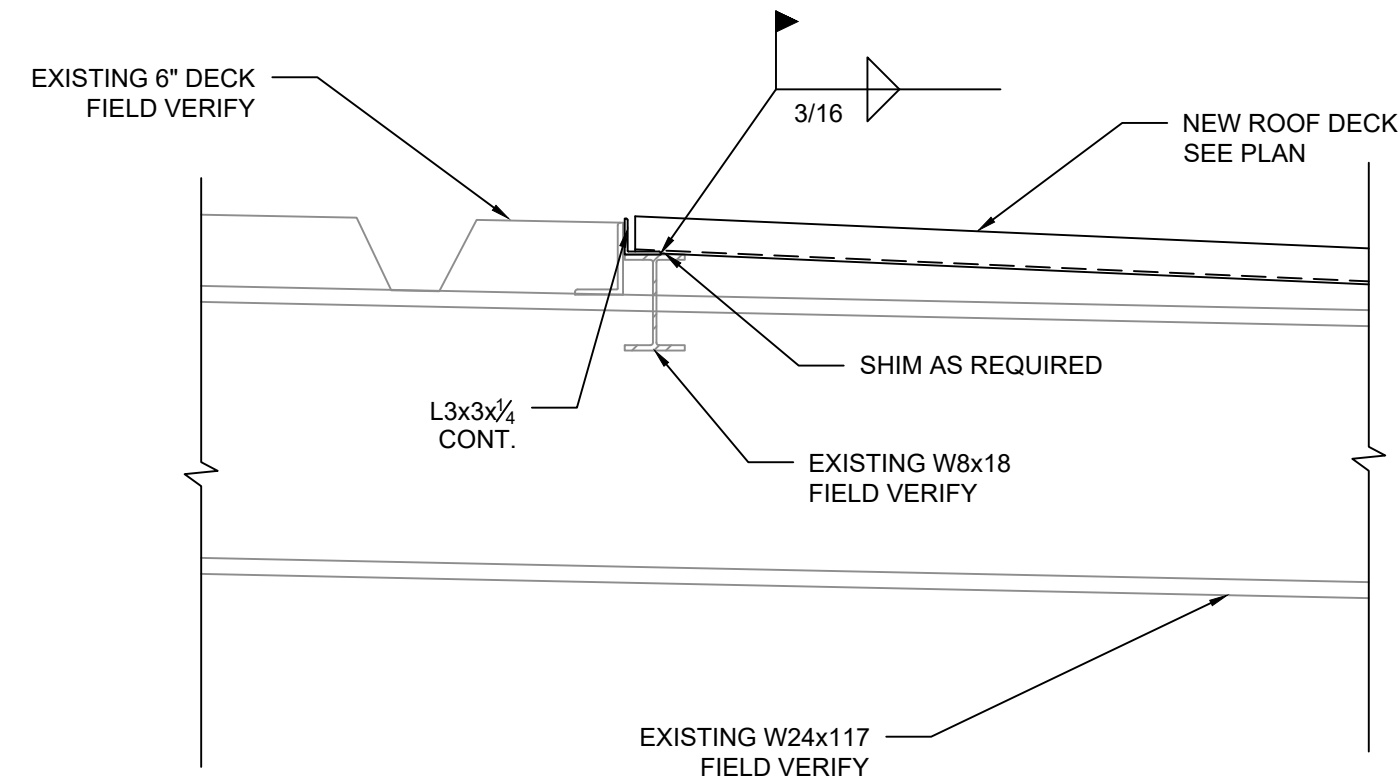
- NOTES:
- COORD. W/ARCH DRAWINGS.
 - GC TO FIELD VERIFY EXISTING TOP OF STEEL ELEVATIONS AND ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL AND STEEL FABRICATION. ANY DISCREPANCIES ARE TO BE REPORTED TO EOR.
 - PROVIDE 1 1/2" MIN. BEARING AND ENDS OF DECK.

3 SS.1 SKYLIGHT INFILL BETWEEN GRIDS 5 AND 7 SCALE: 3/4" = 1'-0"

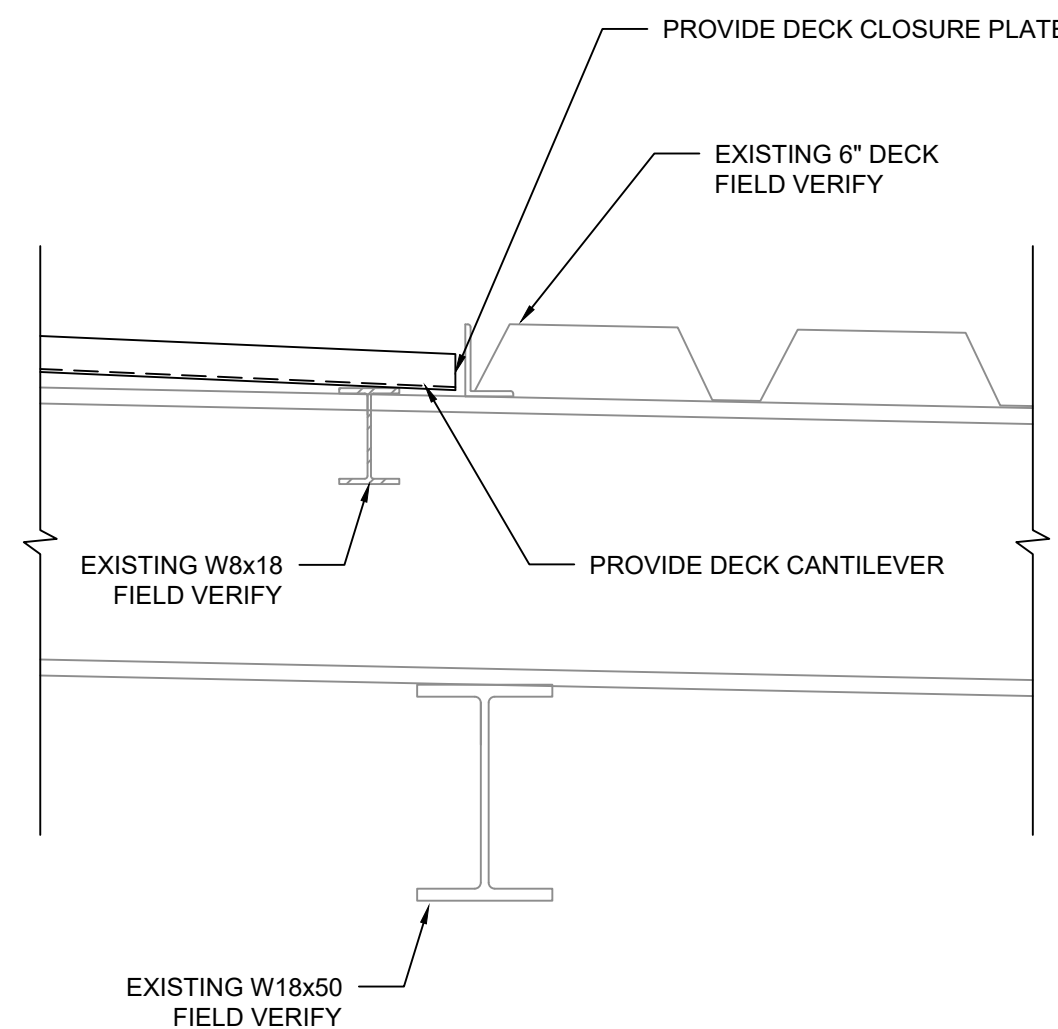
4 SS.1 SKYLIGHT INFILL AT GRID A.3 SCALE: N.T.S.



- NOTE:
- NO INTERMEDIATE JOIST AT SIM. CONDITION.



- NOTES:
- COORD. W/ARCH DRAWINGS.
 - SEE PLAN FOR TOP OF STEEL ELEVATIONS.
 - GC TO FIELD VERIFY EXISTING TOP OF STEEL ELEVATIONS AND ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL AND STEEL FABRICATION. ANY DISCREPANCIES ARE TO BE REPORTED TO EOR.
 - PROVIDE 1 1/2" MIN. BEARING AND ENDS OF DECK.

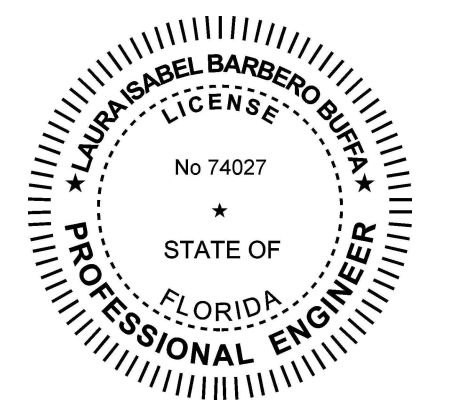


1 SS.1 SKYLIGHT INFILL OVER JOISTS SCALE: 3/4" = 1'-0"

1 SS.1 SKYLIGHT INFILL OVER JOISTS SCALE: 3/4" = 1'-0"



CERTIFICATE OF AUTHORIZATION No. 27343
 LAURA BARBERO-BUFFA, P.E. No. 74027
 1214 EAST CONCORD STREET
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 P. 407.377.7227



CONSTRUCTION DOCUMENTS
 ORANGE COUNTY GOVERNMENT
 SOLID WASTE ADMINISTRATION BUILDING
 ORLANDO, FLORIDA
 ROOFING REPLACEMENT PROJECT
 PROJECT NUMBER: 18-093

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REVISIONS		
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DRAWN BY: MR PROJECT NUMBER: 18-093
 APPROVED BY: LBB PHASE: CONSTRUCTION.DOCX
 ENGINEER: LBB DATE: MAY 8, 2019

SECTIONS & DETAILS
S5.1
 PLOT: AS NOTED SHEET