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

MAYOR: JERRY L. DEMINGS

CONSTRUCTION DOCUMENTS SWRF INFLUENT PUMP STATION AND SOUTH PLANT ELECTRICAL BUILDING ROOF REPLACEMENT PROJECT

4760 WEST SAND LAKE ROAD ORLANDO, FL 32819 PREPARED FOR:



ORANGE COUNTY GOVERNMENT OCU SEQUENCE NUMBER: 94807

OCU CIP#: 1555-0028

JANUARY 21, 2019

DRAWING INDEX

SHEET	SHEET TITLE			REVISION
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C1.0	COVER SHEET	01/21/2019	0	NA
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G1.0	GENERAL	01/21/2019	0	NA
A1.0	INFLUENT PUMP STATION - DEMOLITION ROOF PLAN	01/21/2019	0	NA
A1.1	INFLUENT PUMP STATION - PROPOSED ROOF PLAN	01/21/2019	0	NA
A1.2	INFLUENT PUMP STATION - WIND UPLIFT PRESSURE ROOF PLAN	01/21/2019	0	NA
A1.3	ELECTRICAL BUILDING - DEMOLITION ROOF PLAN	01/21/2019	0	NA
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A2.5	INFLUENT PUMP STATION - ROOF DETAILS	01/21/2019	0	NA
A2.6	INFLUENT PUMP STATION - ROOF DETAILS	01/21/2019	0	NA
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A3.7	ELECTRICAL BUILDING - ROOF DETAILS	01/21/2019	0	NA
A3.8	ELECTRICAL BUILDING - LADDER DETAILS	01/21/2019	0	NA
A4.0	INFLUENT PUMP STATION - PHOTOGRAPHS	01/21/2019	0	NA
A4.1	ELECTRICAL BUILDING - PHOTOGRAPHS	01/21/2019	0	NA

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M0.1	MECHANICAL LEGENDS, NOTES AND	01/21/2019	0	NA
1010.1	SCHEDULES	01/21/2019	0	
M1.1	MECHANICAL PLAN	01/21/2019	0	NA
M7.0	MECHANICAL DETAILS AND CONTROLS	01/21/2019	0	NA

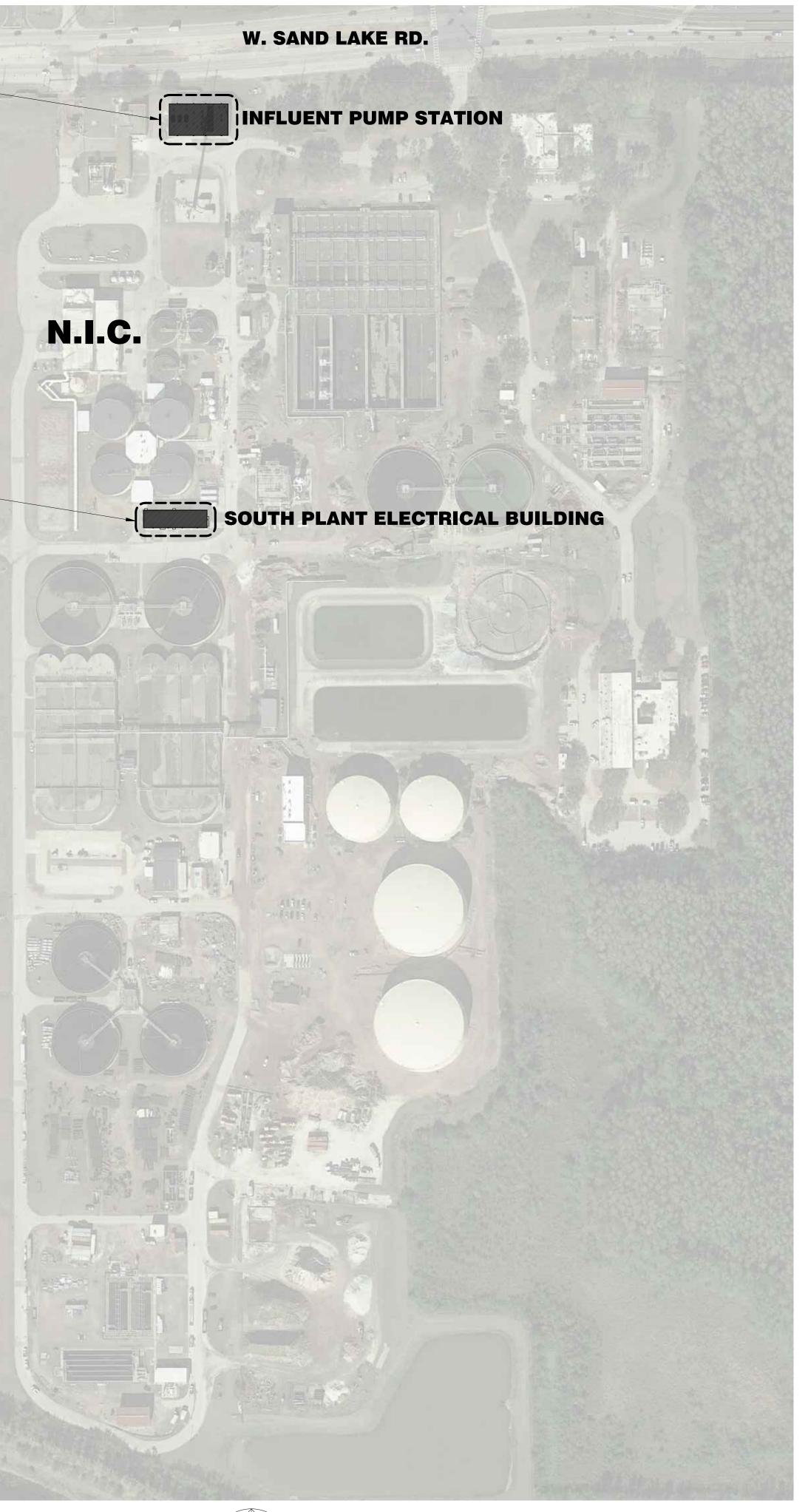
STATEMENT OF COMPLIANCE

TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE 2017 (6TH ED), AND REFERENCED STATUTES, CODES, RULES AND REGULATIONS REFERENCED THEREIN.

CONSTRUCT	ION DOCUMENTS		
ORANGE COUNTY GOVERNMENT			
SWRF INFLUE	SWRF INFLUENT PUMP STATION		
	AND LECTRICAL BUILDING NDO, FLORIDA		
ROOF REPLAC	CEMENT PROJECT		
3246 LAKEVIEW OAKS DRIV (407) 333-1977 • FAX: (407) 333-4			
RE NUMBER TYPE	EVISIONS DATE:		
DRAWN BY:JSJ APPROVED BY: _JPA	PROJECT NUMBER: <u>18-079</u> DATE: JANUARY 21, 2019		
PLOT: NTS	COVER SHEET SHEET C1.0		

INFLUENT PUMP STATION -SEE ENLARGED PLANS ON SHEETS A1.0, A1.1, AND A1.2-

SOUTH PLANT ELECTRICAL BUILDING -SEE ENLARGED PLANS ON SHEETS A1.3, A1.4, AND A1.5-









BUILDINGS INCLUDED IN SCOPE OF WORK

CONSTRUCTION NOTES:

- **1. CONSTRUCTION LIMITS:** LIMITS ARE WITHIN 10 FEET MAXIMUM OF BUILDINGS EXCEPT WHERE OTHERWISE INDICATED.
- 2. CONSTRUCTION STAGING AREA: COORDINATE IN THE FIELD WITH REPRESENTATIVE FROM THE OWNER.
- 3. ACCESSABLE PATH: THE ACCESSABLE PATH MUST BE LEFT UNIMPEDED THROUGHOUT THE CONSTRUCTION. PROVIDE BARRIERS BETWEEN THE CONSTRUCTION AND THE ACCESSABLE PATH AS NECESSARY TO PROVIDE SAFE ACCESS.
- **4. SAFETY PLAN:** CONTRACTOR TO SUBMIT SAFETY PLAN WHICH CLEARLY DELINEATES AREAS FOR CONSTRUCTION, SAFETY BARRIERS, EXITS, CONSTRUCTION TRAFFIC DURING VARIOUS PHASES OF THE PROJECT AND WHEN CONDITIONS CHANGE. CONTRACTOR TO CONFORM WITH REQUIREMENTS IN FBC-B, FFPC 1-16.1 AND NFPA 241.

CONSTRUCTION D	OCUMENTS
ORANGE COUNTY GO	VERNMENT
SWRF INFLUENT PU	MP STATION
AND SOUTH PLANT ELECTF ORLANDO, FLOR	
ROOF REPLACEMEN	NT PROJECT
JAY AMMON ARCHIT 3246 LAKEVIEW OAKS DRIVE • LONG (407) 333-1977 • FAX: (407) 333-4686 •	
REVISIONS	
NUMBER TYPE	DATE:
DRAWN BY:	PROJECT NUMBER:
	SITE PLAN

GENERAL NOTES:

- 1. EXISTING CONDITIONS VERIFICATION: THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO, ROOF AREA SIZES, ROOF SLOPES, AND EXISTING ROOF MATERIALS AND DETAILS. THE CONTRACTOR SHALL BASE THE BID UPON PROVIDING A COMPLETE ROOFING REPLACEMENT PROJECT AS REQUIRED TO PROVIDE A ROOFING ASSEMBLY WHICH WILL REMAIN WATERTIGHT FOR A MINIMUM PERIOD OF 20 YEARS. THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS, PRIOR TO SUBMISSION OF THE BID.
- 2. COMPLIANCE WITH INDUSTRY STANDARDS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, AND OTHER RECOGNIZED INDUSTRY STANDARDS, INCLUDING BUT NOT LIMITED TO, "THE NRCA "ROOFING MANUAL: MEMBRANE ROOF SYSTEMS - 2015 WITH 2016 UPDATES", "THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING AND CONDENSATION CONTROL AND AIR LEAKAGE CONTROL - 2018" AND THE SMACNA "ARCHITECTURAL SHEET METAL MANUAL 7TH EDITION".
- 3. COMPLIANCE WITH FLORIDA BUILDING CODE 2017 (6TH ED): ALL WORK TO MEET OR EXCEED REQUIREMENTS OF THE FLORIDA BUILDING CODE 2017 (6TH ED).
- 4. WIND RESISTANCE: ALL ROOFING AND OTHER COMPONENTS SHALL BE INSTALLED TO RESIST ALL FORCES RESULTING FROM AN ULTIMATE DESIGN WIND SPEED OF 150 MPH IN ACCORDANCE WITH ASCE 7-10 AND TO MEET OR EXCEED REQUIREMENTS OF CHAPTER 16, FLORIDA BUILDING CODE 2017 (6TH ED). SUBMIT ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER TO VERIFY COMPLIANCE WITH THIS REQUIREMENT FOR EACH NEW COMPONENT. SEE WIND UPLIFT PRESSURE PLAN FOR WIND UPLIFT PRESSURES AND ZONES.
- 5. TYPICAL NOTES, SECTIONS AND DETAILS: NOTES, SECTIONS, AND DETAILS DESCRIBING REQUIRED WORK AT EACH COMPONENT ARE TYPICAL FOR ALL SIMILAR COMPONENTS AND THE NOTE, SECTION, OR DETAIL SHALL APPLY AS IF CALLED OUT SEPARATELY AT EACH LOCATION. THE DETAILS REFLECT A GENERAL DESIGN OF EACH DETAIL. THE CONTRACTOR SHALL MAKE ANY REQUIRED MODIFICATIONS TO THE GIVEN DETAILS NECESSARY TO MAKE THE DETAIL COMPATIBLE WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT FOR ALL MODIFIED DETAILS BEFORE THE DETAILS ARE CONSTRUCTED.
- 6. PATCHING: PATCH ALL EXISTING COMPONENTS THAT ARE AFFECTED BY THE WORK OF THIS PROJECT WHETHER OR NOT IDENTIFIED BY THE CONSTRUCTION DOCUMENTS TO BE PATCHED. PATCHING IS DEFINED AS: REPAIRING ALL EXISTING COMPONENTS INCLUDING BUT NOT LIMITED TO SUBSTRATE MATERIALS, STRUCTURAL COMPONENTS, AND FINISHES IN ACCORDANCE WITH INDUSTRY STANDARDS. ALL FINISHES SHALL BE PATCHED TO MATCH ALL CHARACTERISTICS OF EXISTING ADJACENT MATERIALS INCLUDING BUT NOT LIMITED TO MATERIAL TYPE, FINISH TEXTURE, AND COLOR OF FINISH.
- 7. POSITIVE SLOPE: INSTALL NEW SLOPE WHERE DESIGNATED AND WHERE REQUIRED TO ACHIEVE A POSITIVE ROOF SLOPE THAT DOES NOT POND WATER. INSTALL SLOPED CRICKETS AT THE UP-SLOPE OF ALL ROOF MOUNTED EQUIPMENT AS REQUIRED TO PREVENT PONDING OF WATER.
- 8. MOCKUPS: PREPARE IN-PLACE MOCKUPS OF EACH APPLICATION AND DETAIL. RECEIVE WRITTEN APPROVAL FROM ALL MATERIAL MANUFACTURER'S FOR PRODUCTS INCLUDED IN THE MOCKUP, FROM THE ARCHITECT, AND FROM THE OWNER PRIOR TO FURTHER APPLICATION OR INSTALLATION.
- 9. REFERENCE TO "ALL": WHERE SCOPE OF WORK REFERS TO "ALL", THIS IS DEFINED AS ALL SIMILAR COMPONENTS WHETHER OR NOT THAT REFERENCED COMPONENT IS DEPICTED ON THE DRAWING.
- **10. NEW COMPONENTS:** ALL DEPICTED COMPONENTS ON DRAWINGS ARE NEW UNLESS IDENTIFIED AS EXISTING. 11. INTERIOR PROTECTION: PRIOR TO DEMOLITION, INSTALL PROTECTION OVER INTERIOR SPACES AS REQUIRED TO PROTECT
- OCCUPANTS, BUILDING COMPONENTS, AND EQUIPMENT FROM WEATHER ELEMENTS AND CONSTRUCTION RELATED DEBRIS. 12. WEATHERPROOF ENCLOSURE: APPLY WEATHERPROOF ROOF COVERINGS OVER THE ROOF AREAS DESIGNATED FOR REPLACEMENT
- 13. HOUSEKEEPING: THOROUGHLY CLEAN ALL CONSTRUCTION RELATED DEBRIS FROM ALL INTERIOR SURFACES, EXTERIOR SURFACES, AND SITE SURFACES ON A DAILY BASIS. ALL CONSTRUCTION EQUIPMENT, DEBRIS, AND NEW MATERIAL STORED ON THE SITE SHALL BE SECURED TO PREVENT WIND DISPLACEMENT.
- 14. SAFETY: PROVIDE ALL NECESSARY MEASURES TO ENSURE SAFETY TO BUILDING OCCUPANTS DURING THE PERIODS WHEN THE BUILDING IS OCCUPIED. PREVENT ACCESS TO THE CONSTRUCTION AREAS AND STAGING AREAS BY SIGNS, FENCES, AND OTHER BARRIERS. INSTALL A TEMPORARY BARRIER OVER THE TOP OF ALL ENTRANCES FOR A DISTANCE OF 10 FEET BEYOND THE ENTRANCE AS REQUIRED TO PROTECT PEDESTRIANS FROM FALLING DEBRIS.
- 15. MANUFACTURER'S AND PRODUCTS: MANUFACTURER'S AND PRODUCTS LISTED ARE A BASIS OF DESIGN. SUBSTITUTIONS SHALL BE ADDRESSED AS SPECIFIED IN THE GENERAL CONDITIONS.
- 16. TRADES: ALL WORK SHALL BE PERFORMED BY CONTRACTORS LICENSED IN THEIR TRADES AND AS REQUIRED BY THE BUILDING DEPARTMENT OFFICIALS. THESE TRADES INCLUDE BUT ARE NOT LIMITED TO ROOFING CONTRACTORS, GENERAL CONTRACTORS, ELECTRICAL CONTRACTORS. HVAC CONTRACTORS. PLUMBING CONTRACTORS. AND SEALANT CONTRACTORS.
- **17. FINAL INSPECTION:** THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AFTER ALL WORK HAS BEEN COMPLETED. A FINAL INSPECTION SHALL BE PERFORMED JOINTLY BY THE ARCHITECT, COUNTY STAFF, AND BUILDING OFFICIAL, IN ACCORDANCE WITH FLORIDA BUILDING CODE 2017 (6TH ED) 1512.4.3.3.

OR REPAIR AS REQUIRED TO PREVENT THE INTRUSION OF WEATHER ELEMENTS INTO THE BUILDING DURING THE CONSTRUCTION PROCESS.

SCOPE OF WORK

THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1.0 GENERAL:

- **1.1 ENGINEERING:** CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE ATTACHMENT SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.
- **1.2 SUBSTRATE PREPARATION:** PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY.
- 1.3 WARRANTY: THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURER'S OF THE ROOFING ASSEMBLY AND SHALL RECEIVE A 20 YEAR NDL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NDL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.
- 1.4 SUBSTRATE PREPARATION: REPLACE ALL DETERIORATED SUBSTRATE MATERIAL TO A CONDITION REQUIRED BY THE ROOF MEMBRANE MANUFACTURER. PREPARE ALL EXISTING SURFACES TO WHICH NEW OR REINSTALLED COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY THE MANUFACTURER OF EACH NEW COMPONENT. REPLACE OR REPAIR ALL DAMAGED SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOF MEMBRANE, SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING MEMBRANE THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE PROPOSED ROOF ASSEMBLY.

2.0 ROOFING ASSEMBLY - PUMP STATION:

- **2.1 DEMOLITION:** REMOVE EXISTING ROOF MEMBRANE AND LIGHTWEIGHT INSULATING CONCRETE FROM TOP SURFACE OF EXISTING CONCRETE DECK. REMOVE ALL METAL FLASHINGS INCLUDING BUT NOT LIMITED TO THE RAISED PERIMETER EDGE, COUNTERFLASHINGS, METAL EDGES AND SCUPPERS. REMOVE ALL EXISTING MECHANICAL EQUIPMENT AND EQUIPMENT CURBS. TEMPORARILY REMOVE THE ROOF HATCHES FOR REINSTALLATION.
- 2.2 INSTALLATION OF NEW ROOFING ASSEMBLY: INSTALL NEW MECHANICAL EQUIPMENT CURBS OVER EXISTING OPENINGS. PRIME THE EXISTING CONCRETE DECK AND TORCH APPLY A VAPOR BARRIER, COMPOSED OF A MODIFIED BITUMINOUS MEMBRANE OVER THE CONCRETE DECK. INSTALL FLAT AND TAPERED INSULATION, IN A MINIMUM OF TWO STAGGERED LAYERS, ADHERED WITH URETHANE ADHESIVE OVER THE TEMPORARY ROOF MEMBRANE. INSTALL TAPERED INSULATION AS REQUIRED TO ACHIEVE A MINIMUM SURFACE SLOPE OF 1/4 INCH PER LINEAR FOOT POSITIVE SLOPE TOWARD THE GUTTERS. THE SLOPE PLAN WILL BE A HIP SHAPE. INSTALL A 1/2 INCH COVER BOARD IN URETHANE ADHESIVE OVER THE INSULATION AND UP ALL EQUIPMENT CURBS. TORCH APPLY A SMOOTH MODIFIED BITUMINOUS MEMBRANE BASE SHEET OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP SHEET OVER THE BASE SHEET. AT ALL BASE FLASHINGS, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING OUTER PLY OVER THE COVER BOARDS AT THE ADJACENT VERTICAL SURFACES AT CURBS.
- 2.3 INSTALLATION OF NEW METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. NEW FLASHINGS INCLUDE BUT ARE NOT LIMITED TO METAL EDGES SKIRT FLASHINGS AND GUTTERS.
- 2.4 INSTALLATION OF NEW DOWNSPOUTS: FABRICATE AND INSTALL NEW PVC DOWNSPOUTS SECURED WITH STAINLESS STEEL STRAPS. PAINT DOWNSPOUTS TO MATCH COLOR OF EXISTING WALLS.
- 2.5 EXISTING ROOF MOUNTED MECHANICAL EQUIPMENT: INSTALL NEW ROOF MOUNTED MECHANICAL EQUIPMENT OVER THE NEW EQUIPMENT CURBS. INSTALL HOLD DOWN STRAPS TO PREVENT WIND DISPLACEMENT. SEE MECHANCIAL 2.6 EXISTING ROOF HATCH: REINSTALL THE EXISTING ROOF HATCHES OVER THE EXISTING CURBS. INSTALL A LADDER EXTENSION
- AND A PERIMETER SAFETY RAIL WITH GATE AT THE ONE ACCESSIBLE ROOF HATCH. 2.7 EXISTING ELECTRICAL CONNECTIONS TO ROOF MOUNTED EQUIPMENT: RELOCATE ALL DISCONNECT SWITCHES CONVENIENCE OUTLETS, AND EXISTING SUPPORTS TO A MINIMUM OF 24 INCHES AWAY FROM THE EQUIPMENT TO WHICH IT SERVES. ALSO, RELOCATE THE CONDUITS OF ALL ROOF MOUNTED ELECTRICAL EQUIPMENT TO THE INTERIOR OF THE EQUIPMENT. A RECEPTACLE OUTLET SHALL BE PROVIDED FOR ALL EQUIPMENT REQUIRING SERVICE IN A LOCATION IN ACCORDANCE WITH NFPA TO REROUTE.
- 2.8 GUARD RAILS: WHERE DESIGNATED, INSTALL A 42 INCH HIGH GUARDRAIL BETWEEN ROOF MOUNTED EQUIPMENT AND THE METAL EDGE. EXTEND THE GUARDRAIL A MINIMUM OF 30 INCHES BEYOND EACH END OF THE EQUIPMENT.

3.0 ROOFING ASSEMBLY - ELECTRIC BUILDING:

- 3.1 DEMOLITION: REMOVE EXISTING ROOF MEMBRANE AND INSULATION FROM TOP SURFACE OF EXISTING CONCRETE TOPPING SLAB REMOVE ALL METAL FLASHINGS INCLUDING BUT NOT LIMITED TO THE COPINGS, COUNTERFLASHINGS, AND SCUPPERS. REMOVE DESIGNATED WALL SURFACES FOR INSTALLATION OF NEW EMERGENCY OVERFLOW SCUPPERS.
- **3.2 INSTALLATION OF NEW ROOFING ASSEMBLY:** PRIME THE EXISTING CONCRETE TOPPING SLAB AND TORCH APPLY A VAPOR BARRIER, COMPOSED OF A MODIFIED BITUMINOUS MEMBRANE, OVER THE CONCRETE TOPPING SLAB. INSTALL FLAT INSULATION OVER THE STRUCTURALLY SLOPED EXISTING ROOF DECK AND TAPERED INSULATION AT THE CRICKETS, IN A MINIMUM OF TWO STAGGERED LAYERS, ADHERED WITH URETHANE ADHESIVE OVER THE TEMPORARY ROOF MEMBRANE. INSTALL TAPERED INSULATION CRICKETS AS REQUIRED TO ACHIEVE A MINIMUM SURFACE SLOPE OF 1/4 INCH PER LINEAR FOOT POSITIVE SLOPE TOWARD THE SCUPPERS. INSTALL A 1/2 INCH COVER BOARD IN URETHANE ADHESIVE OVER THE INSULATION AND UP ALL ADJACENT WALL SURFACES. TORCH APPLY A SMOOTH MODIFIED BITUMINOUS MEMBRANE BASE SHEET OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP SHEET OVER THE BASE SHEET. AT ALL BASE FLASHINGS, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING OUTER PLY OVER THE COVER BOARDS AT THE ADJACENT VERTICAL WALLS.
- 3.3 INSTALLATION OF NEW METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. NEW FLASHINGS INCLUDE BUT ARE NOT LIMITED TO COPINGS, SCUPPERS, AND LIGHTING PROTECTION ROOF PENETRATIONS. 3.4 INSTALLATION OF NEW DOWNSPOUTS: FABRICATE AND INSTALL NEW PVC DOWNSPOUTS SECURED WITH STAINLESS STEEL
- STRAPS. PAINT DOWNSPOUTS TO MATCH COLOR OF EXISTING WALLS.
- **3.5 LIGHTNING PROTECTION:** REMOVE ALL LIGHTNING PROTECTION ASSEMBLY COMPONENTS ATTACHED TO THE ROOFING ASSEMBLY, INCLUDING BUT NOT LIMITED TO, AIR TERMINALS, CONDUCTOR CABLES, ATTACHMENT COMPONENTS, AND RELATED FASTENERS. REPLACE ALL EXISTING LIGHTNING PROTECTION WITH NEW COMPONENTS THAT WILL BE COMPATIBLE WITH THE NEW ROOFING ASSEMBLY. WHERE EXISTING LIGHTNING PROTECTION DOES NOT EXIST, INSTALL A NEW LIGHTNING PROTECTION ASSEMBLY. TIE-IN THE NEW LIGHTNING PROTECTION ASSEMBLY COMPONENTS WITH THE EXISTING LIGHTNING PROTECTION GROUNDING COMPONENTS USING BI-METAL CONNECTORS WHERE MATERIAL COMPATIBILITY WILL NOT AFFECT THE NEW ROOFING ASSEMBLY. INSTALL ALL LIGHTNING PROTECTION ASSEMBLIES AND COMPONENTS BY A QUALIFIED, LICENSED LIGHTNING PROTECTION INSTALLER WITH A MINIMUM OF 5 YEARS EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS IN ACCORDANCE WITH NFPA-780 AND ALL APPLICABLE BUILDING CODES.
- 3.6 ROOF ACCESS LADDER: INSTALL NEW ROOF ACCESS LADDER. SEE SHEET A3.8 FOR SPECIFICATION AND DETAILS.

CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT SWRF INFLUENT PUMP STATION SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA

ROOF REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE . LONGWOOD, FLORIDA 32779 (407) 333-1977

FAX: (407) 333-4686

EMAIL: JAY@JAYAMMON.COM REVISIONS

DATE:

DRAWN BY: _____JSJ APPROVED BY: JPA

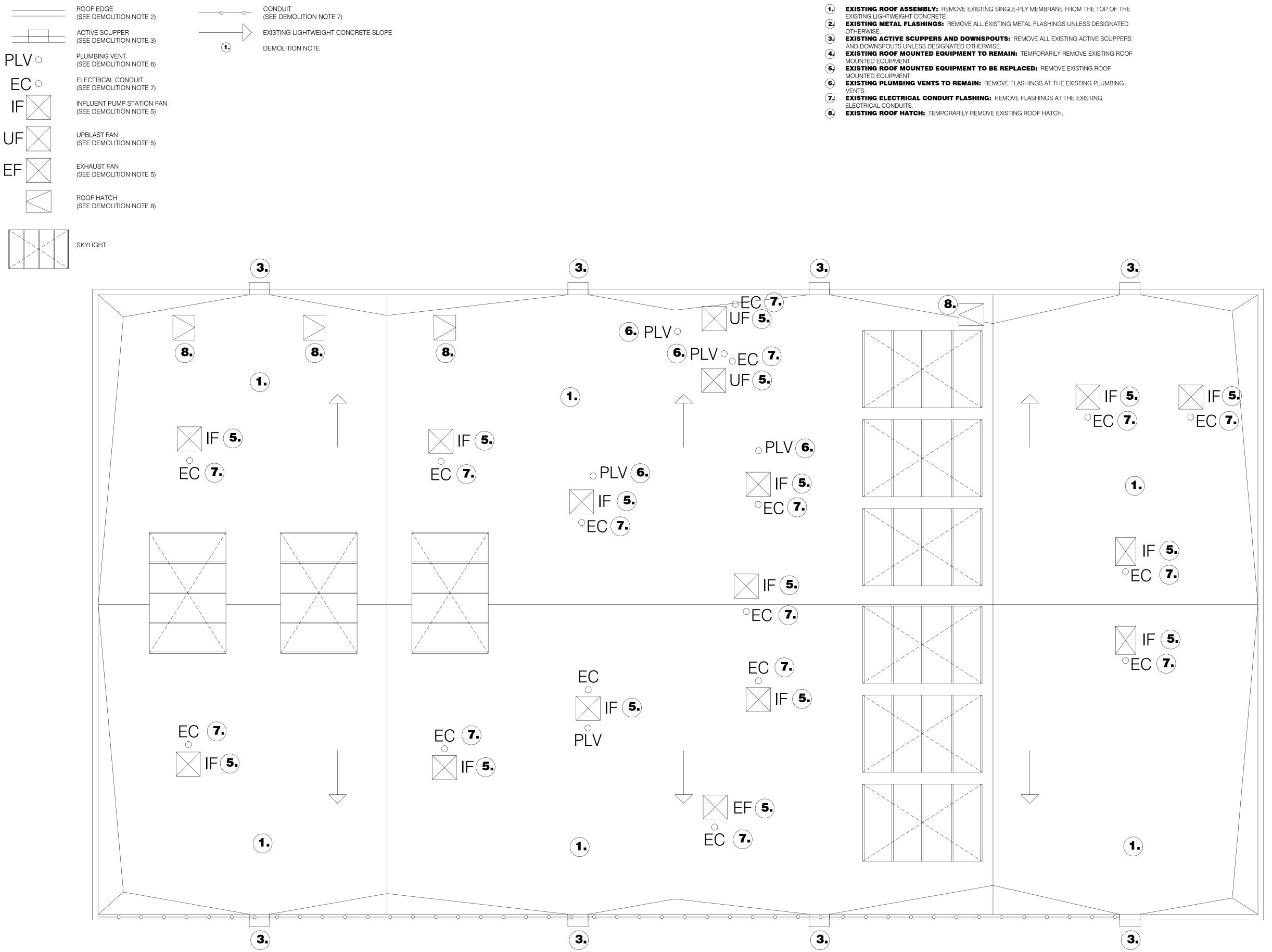
NUMBER TYPE

PROJECT NUMBER: 18-079

DATE: JANUARY 21, 2019

GENERAL

PLOT: NTS



EXISTING ROOFING ASSEMBLY NOTES: EXISTING ROOFING ASSEMBLY THICKNESSES ARE APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO ROOF ASSEMBLY THICKNESSES.

EXISTING ROOFING ASSEMBLY - TYPE 1

	ROOF COMPONENTS
ROOF FINISH	SINGLE-PLY ROOF MEMBRANE
ROOF DECK	LIGHTWEIGHT INSULATING CONCRETE
STRUCTURAL DECK	CONCRETE DECK
ROOF FLASHINGS	PAINTED STEEL
DRAINAGE	ACTIVE SCUPPERS AND DOWNSPOUTS

DEMOLITION NOTES

N SCALE: 3/16" = 1'-0"

SCOPE OF WORK

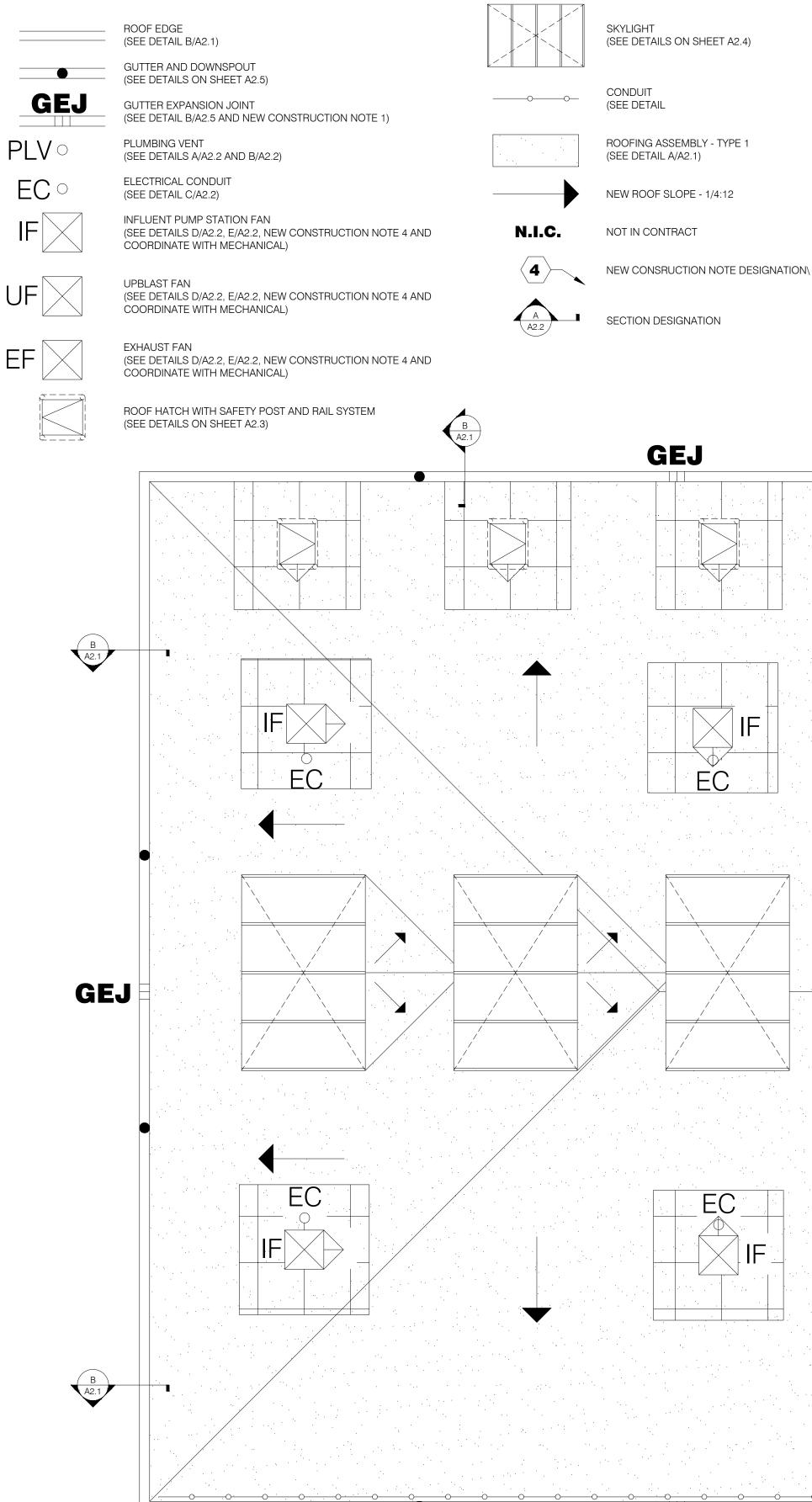
THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1.0 GENERAL:

- 1.1 ENGINEERING: CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE ATTACHMENT SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.
- 1.2 SUBSTRATE PREPARATION: PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY.
- **1.3 WARRANTY:** THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURER'S OF THE ROOFING ASSEMBLY AND SHALL RECEIVE A 20 YEAR NDL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NDL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.
- **1.4 SUBSTRATE PREPARATION:** REPLACE ALL DETERIORATED SUBSTRATE MATERIAL TO A CONDITION REQUIRED BY THE ROOF MEMBRANE MANUFACTURER. PREPARE ALL EXISTING SURFACES TO WHICH NEW OR REINSTALLED COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY THE MANUFACTURER OF EACH NEW COMPONENT. REPLACE OR REPAIR ALL DAMAGED SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOF MEMBRANE, SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING MEMBRANE THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE PROPOSED ROOF ASSEMBLY.
- 2.0 ROOFING ASSEMBLY PUMP STATION: 2.1 DEMOLITION: REMOVE EXISTING ROOF MEMBRANE AND LIGHTWEIGHT INSULATING CONCRETE FROM TOP SURFACE OF EXISTING
- CONCRETE DECK. REMOVE ALL METAL FLASHINGS INCLUDING BUT NOT LIMITED TO THE RAISED PERIMETER EDGE, COUNTERFLASHINGS, METAL EDGES AND SCUPPERS. REMOVE ALL EXISTING MECHANICAL EQUIPMENT AND EQUIPMENT CURBS. TEMPORARILY REMOVE THE ROOF HATCHES FOR REINSTALLATION.
- 2.2 INSTALLATION OF NEW ROOFING ASSEMBLY: INSTALL NEW MECHANICAL EQUIPMENT CURBS OVER EXISTING OPENINGS. PRIME THE EXISTING CONCRETE DECK AND TORCH APPLY A VAPOR BARRIER, COMPOSED OF A MODIFIED BITUMINOUS MEMBRANE, OVER THE CONCRETE DECK. INSTALL FLAT AND TAPERED INSULATION, IN A MINIMUM OF TWO STAGGERED LAYERS, ADHERED WITH URETHANE ADHESIVE OVER THE TEMPORARY ROOF MEMBRANE. INSTALL TAPERED INSULATION AS REQUIRED TO ACHIEVE A MINIMUM SURFACE SLOPE OF 1/4 INCH PER LINEAR FOOT POSITIVE SLOPE TOWARD THE GUTTERS. THE SLOPE PLAN WILL BE A HIP SHAPE. INSTALL A 1/2 INCH COVER BOARD IN URETHANE ADHESIVE OVER THE INSULATION AND UP ALL EQUIPMENT CURBS. TORCH APPLY A SMOOTH MODIFIED BITUMINOUS MEMBRANE BASE SHEET OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP SHEET OVER THE BASE SHEET. AT ALL BASE FLASHINGS, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING OUTER PLY OVER THE COVER BOARDS AT THE ADJACENT VERTICAL SURFACES AT CURBS.
- 2.3 INSTALLATION OF NEW METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. NEW FLASHINGS INCLUDE BUT ARE NOT LIMITED TO METAL EDGES SKIRT FLASHINGS AND GUTTERS.
- 2.4 INSTALLATION OF NEW DOWNSPOUTS: FABRICATE AND INSTALL NEW PVC DOWNSPOUTS SECURED WITH STAINLESS STEEL STRAPS. PAINT DOWNSPOUTS TO MATCH COLOR OF EXISTING WALLS. 2.5 EXISTING ROOF MOUNTED MECHANICAL EQUIPMENT: INSTALL NEW ROOF MOUNTED MECHANICAL EQUIPMENT OVER THE
- NEW EQUIPMENT CURBS. INSTALL HOLD DOWN STRAPS TO PREVENT WIND DISPLACEMENT. SEE MECHANCIAL. 2.6 EXISTING ROOF HATCH: REINSTALL THE EXISTING ROOF HATCHES OVER THE EXISTING CURBS. INSTALL A LADDER EXTENSION AND A PERIMETER SAFETY RAIL WITH GATE AT THE ONE ACCESSIBLE ROOF HATCH.
- 2.7 EXISTING ELECTRICAL CONNECTIONS TO ROOF MOUNTED EQUIPMENT: RELOCATE ALL DISCONNECT SWITCHES, CONVENIENCE OUTLETS, AND EXISTING SUPPORTS TO A MINIMUM OF 24 INCHES AWAY FROM THE EQUIPMENT TO WHICH IT SERVES. ALSO, RELOCATE THE CONDUITS OF ALL ROOF MOUNTED ELECTRICAL EQUIPMENT TO THE INTERIOR OF THE EQUIPMENT. A RECEPTACLE OUTLET SHALL BE PROVIDED FOR ALL EQUIPMENT REQUIRING SERVICE IN A LOCATION IN ACCORDANCE WITH NFPA TO
- REBOUTE 2.8 GUARD RAILS: WHERE DESIGNATED, INSTALL A 42 INCH HIGH GUARDRAIL BETWEEN ROOF MOUNTED EQUIPMENT AND THE METAL EDGE. EXTEND THE GUARDRAIL A MINIMUM OF 30 INCHES BEYOND EACH END OF THE EQUIPMENT.

CONSTRUCTION [
OBANGE COUNTY G	
ORANGE COUNTY G	
SWRF INFLUENT P	UMP STATION
AND SOUTH PLANT ELECT ORLANDO, FLC	
ROOF REPLACEME	ENT PROJECT
JAY AMMON ARCH 3246 LAKEVIEW OAKS DRIVE • LON (407) 333-1977 • FAX: (407) 333-4686	,
REVISION	IS
NUMBER TYPE	DATE:
DRAWN BY:SJ APPROVED BY: _JPA	PROJECT NUMBER: <u>18-079</u> DATE: JANUARY 21, 2019
	IMP STATION -
	N ROOF PLAN
PLOT: 3/16" = 1'-0" SHEET	A1.0

^{3.0} ROOFING ASSEMBLY - ELECTRIC BUILDING: SEE SHEET A1.3.



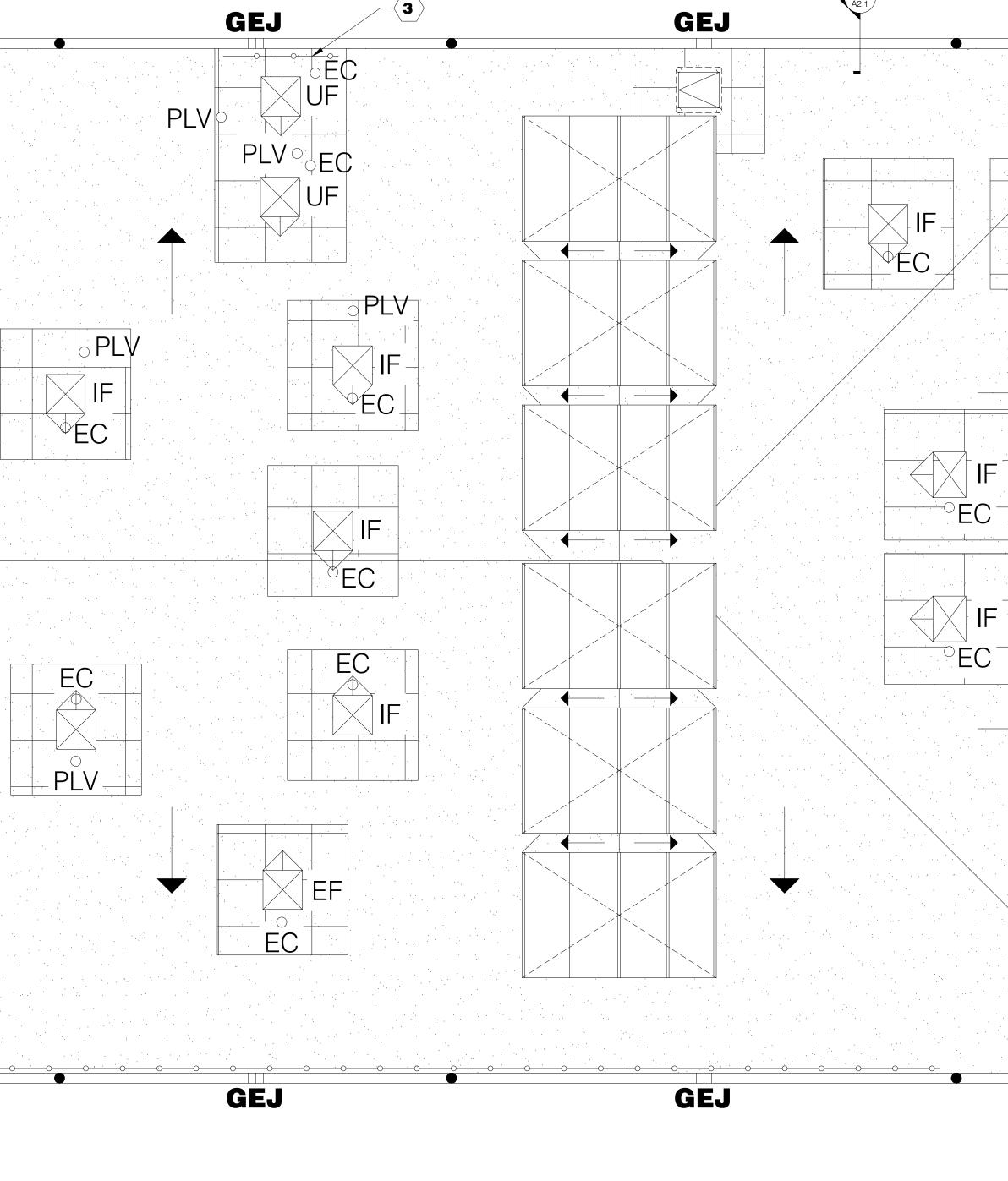
GEJ

EXISTING ROOFING ASSEMBLY NOTES: EXISTING ROOFING ASSEMBLY THICKNESSES ARE APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO ROOF ASSEMBLY THICKNESSES.

PROPOSED ROOFING ASSEMBLY - TYPE

	ROOF COMPONENTS
ROOF MEMBRANE	GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER BASE PLY
COVER BOARD	1/2" COVER BOARD
TAPERED INSULATION	TAPERED POLYISOCYANURATE INSULATION
FLAT INSULATION	FLAT POLYISOCYANURATE INSULATION
TEMPORARY ROOF	SAND-SURFACED MODIFIED BITUMEN PLY
EXISTING STRUCTURAL DECK	PRIME EXISTING CONCRETE DECK WITH ASTM D41 PRIMER
ROOF FLASHINGS	STAINLESS STEEL
DRAINAGE	GUTTERS AND DOWNSPOUTS





(SEE NEW CONSTRUCTION NOTE 4) ROOF TRAFFIC PADS (SEE NEW CONSTRUCTION NOTE 4)

CRICKETS

1. GUTTERS AND DOWNSPOUTS: INSTALL NEW GUTTERS AND NEW DOWNSPOUTS. NORTH AND SOUTH DOWNSPOUTS ARE TO BE INSTALLED IN SAME LOCATIONS AS WHERE THEY WERE REMOVED. INSTALL GUTTER EXPANSION JOINTS CENTERED IN BETWEEN DOWNSPOUT LOCATIONS, NO MORE THAN 50 FEET APART IN LONG, STRAIGHT RUNS AND NO MORE THAN 25 FEET FROM ANY FIXED CORNER. SEE DETAILS ON SHEET A2.5.

NEW CONSTRUCTION NOTES

-MECHANICAL 304.11 AND FBC - BUILDING 1607.8. AND OSHA 1910.

TRAFFIC PAD.

- WELDED NON-MOVING JOINTS. PREPARE IN-PLACE MOCKUP FOR OWNER AND A/E APPROVAL.
- 2. ONE-PIECE TRANSITION FLASHING: INSTALL NEW ONE-PIECE TRANSITION FLASHING WITH ALL 3. MECHANICAL EQUIPMENT - GUARD RAILS: INSTALL GUARDS WHERE EQUIPMENT REQUIRING SERVICING IS LOCATED WITHIN 10 FEET OF A ROOF EDGE. INSTALL TUBULAR, STAINLESS STEEL GUARDRAIL SYSTEM. PROVIDE SHOP DRAWINGS TO A/E FOR APPROVAL PRIOR TO ORDERING AND INSTALLING GUARD RAIL SYSTEM. SEE DETAIL SHEET A2.6. GUARDRAIL TO COMPLY WITH FBC

4. MECHANICAL EQUIPMENT - CRICKETS AND ROOF TRAFFIC PADS: INSTALL CRICKETS MADE

DIVERT WATER AROUND THE EQUIPMENT. INSTALL ROOF TRAFFIC PADS RECOMMENDED BY THE

EQUIPMENT THAT REQUIRES SERVICING. INSTALL 2 INCH DRAINAGE SLOTS BETWEEN EACH ROOF

ROOF MEMBRANE MANUFACTURER AROUND ALL ROOF ACCESS POINTS AND MECHANICAL

FROM POLYISOCYANURATE INSULATION ON THE UPSLOPE OF ALL ROOF MOUNTED EQUIPMENT TO

SCOPE OF WORK

THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1.0 GENERAL:

- 1.1 ENGINEERING: CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE ATTACHMENT SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.
- 1.2 SUBSTRATE PREPARATION: PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY.
- **1.3 WARRANTY:** THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURER'S OF THE ROOFING ASSEMBLY AND SHALL RECEIVE A 20 YEAR NDL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NDL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.
- **1.4 SUBSTRATE PREPARATION:** REPLACE ALL DETERIORATED SUBSTRATE MATERIAL TO A CONDITION REQUIRED BY THE ROOF MEMBRANE MANUFACTURER. PREPARE ALL EXISTING SURFACES TO WHICH NEW OR REINSTALLED COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY THE MANUFACTURER OF EACH NEW COMPONENT. REPLACE OR REPAIR ALL DAMAGED SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOF MEMBRANE, SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING MEMBRANE THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE PROPOSED ROOF ASSEMBLY.
- 2.0 ROOFING ASSEMBLY PUMP STATION:
- 2.1 DEMOLITION: REMOVE EXISTING ROOF MEMBRANE AND LIGHTWEIGHT INSULATING CONCRETE FROM TOP SURFACE OF EXISTING CONCRETE DECK. REMOVE ALL METAL FLASHINGS INCLUDING BUT NOT LIMITED TO THE RAISED PERIMETER EDGE, COUNTERFLASHINGS, METAL EDGES AND SCUPPERS. REMOVE ALL EXISTING MECHANICAL EQUIPMENT AND EQUIPMENT CURBS. TEMPORARILY REMOVE THE ROOF HATCHES FOR REINSTALLATION.
- 2.2 INSTALLATION OF NEW ROOFING ASSEMBLY: INSTALL NEW MECHANICAL EQUIPMENT CURBS OVER EXISTING OPENINGS. PRIME THE EXISTING CONCRETE DECK AND TORCH APPLY A VAPOR BARRIER, COMPOSED OF A MODIFIED BITUMINOUS MEMBRANE, OVER THE CONCRETE DECK. INSTALL FLAT AND TAPERED INSULATION. IN A MINIMUM OF TWO STAGGERED LAYERS. ADHERED WITH URETHANE ADHESIVE OVER THE TEMPORARY ROOF MEMBRANE. INSTALL TAPERED INSULATION AS REQUIRED TO ACHIEVE A MINIMUM SURFACE SLOPE OF 1/4 INCH PER LINEAR FOOT POSITIVE SLOPE TOWARD THE GUTTERS. THE SLOPE PLAN WILL BE A HIP SHAPE. INSTALL A 1/2 INCH COVER BOARD IN URETHANE ADHESIVE OVER THE INSULATION AND UP ALL EQUIPMENT CURBS. TORCH APPLY A SMOOTH MODIFIED BITUMINOUS MEMBRANE BASE SHEET OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP SHEET OVER THE BASE SHEET. AT ALL BASE FLASHINGS, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING OUTER PLY OVER THE COVER BOARDS AT THE ADJACENT VERTICAL SURFACES AT CURBS.
- 2.3 INSTALLATION OF NEW METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. NEW FLASHINGS INCLUDE BUT ARE NOT LIMITED TO METAL EDGES SKIRT FLASHINGS AND GUTTERS.
- 2.4 INSTALLATION OF NEW DOWNSPOUTS: FABRICATE AND INSTALL NEW PVC DOWNSPOUTS SECURED WITH STAINLESS STEEL STRAPS. PAINT DOWNSPOUTS TO MATCH COLOR OF EXISTING WALLS. 2.5 EXISTING ROOF MOUNTED MECHANICAL EQUIPMENT: INSTALL NEW ROOF MOUNTED MECHANICAL EQUIPMENT OVER THE
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- AND A PERIMETER SAFETY RAIL WITH GATE AT THE ONE ACCESSIBLE ROOF HATCH. 2.7 EXISTING ELECTRICAL CONNECTIONS TO ROOF MOUNTED EQUIPMENT: RELOCATE ALL DISCONNECT SWITCHES, CONVENIENCE OUTLETS, AND EXISTING SUPPORTS TO A MINIMUM OF 24 INCHES AWAY FROM THE EQUIPMENT TO WHICH IT SERVES. ALSO, RELOCATE THE CONDUITS OF ALL ROOF MOUNTED ELECTRICAL EQUIPMENT TO THE INTERIOR OF THE EQUIPMENT. A RECEPTACLE OUTLET SHALL BE PROVIDED FOR ALL EQUIPMENT REQUIRING SERVICE IN A LOCATION IN ACCORDANCE WITH NFPA TO
- REROUTE 2.8 GUARD RAILS: WHERE DESIGNATED, INSTALL A 42 INCH HIGH GUARDRAIL BETWEEN ROOF MOUNTED EQUIPMENT AND THE METAL EDGE. EXTEND THE GUARDRAIL A MINIMUM OF 30 INCHES BEYOND EACH END OF THE EQUIPMENT.
- 3.0 ROOFING ASSEMBLY ELECTRIC BUILDING: SEE SHEET A1.4.



B A2.1

EC

CONSTRUCTION	DOCUMENTS
ORANGE COUNTY (GOVERNMENT
	PUMP STATION
AND SOUTH PLANT ELEC ORLANDO, FL	
ROOF REPLACEM	ENT PROJECT
JAY AMMON ARCI 3246 LAKEVIEW OAKS DRIVE • LC (407) 333-1977 • FAX: (407) 333-4686	NGWOOD, FLORIDA 32779
REVISIO	NS
NUMBER TYPE	DATE:
DRAWN BY:	PROJECT NUMBER: <u>18-079</u> DATE: <u>JANUARY 21, 2019</u>
	JMP STATION - ED ROOF PLAN

SHEET

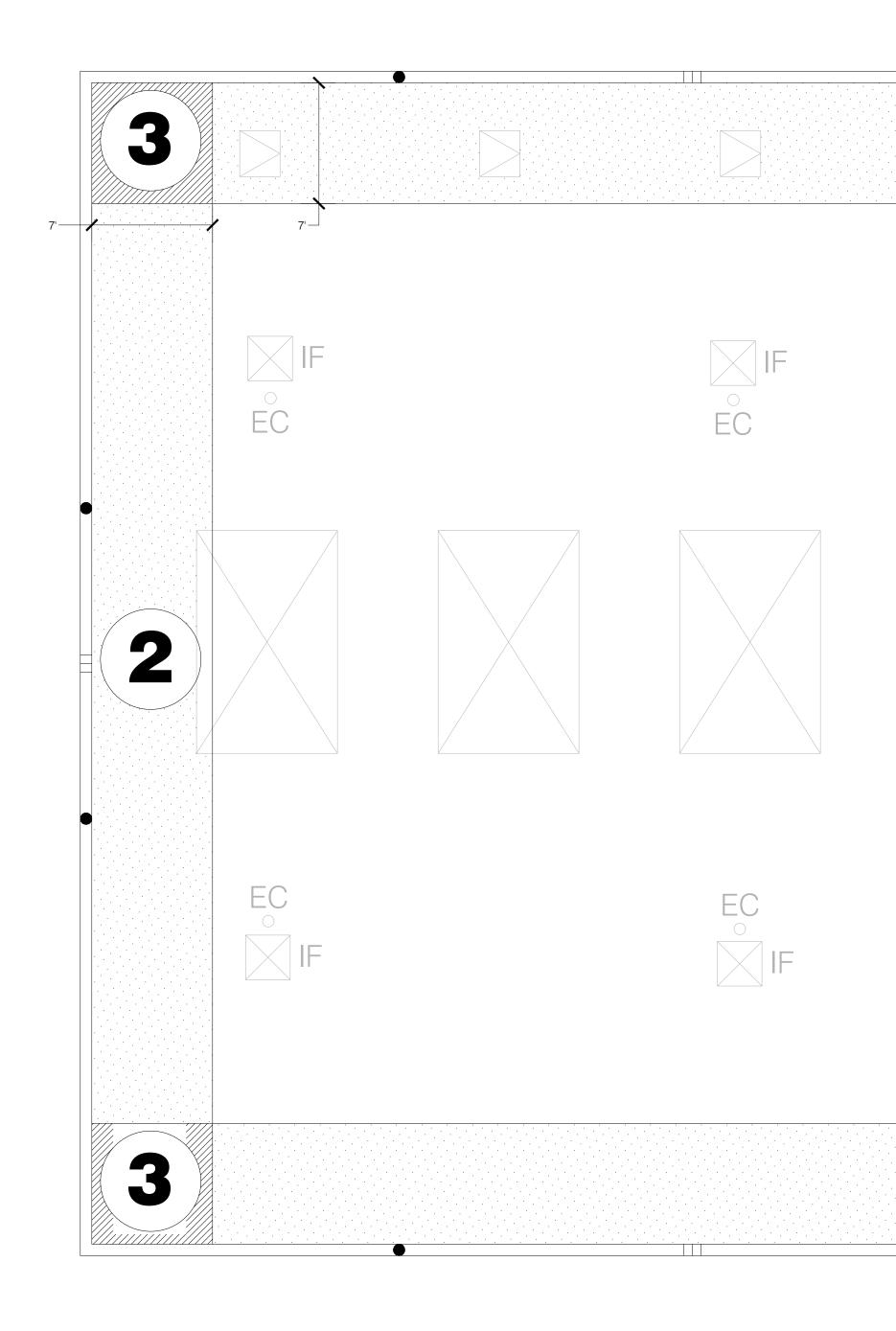
PLOT: 3/16" = 1'-0"

A1.1

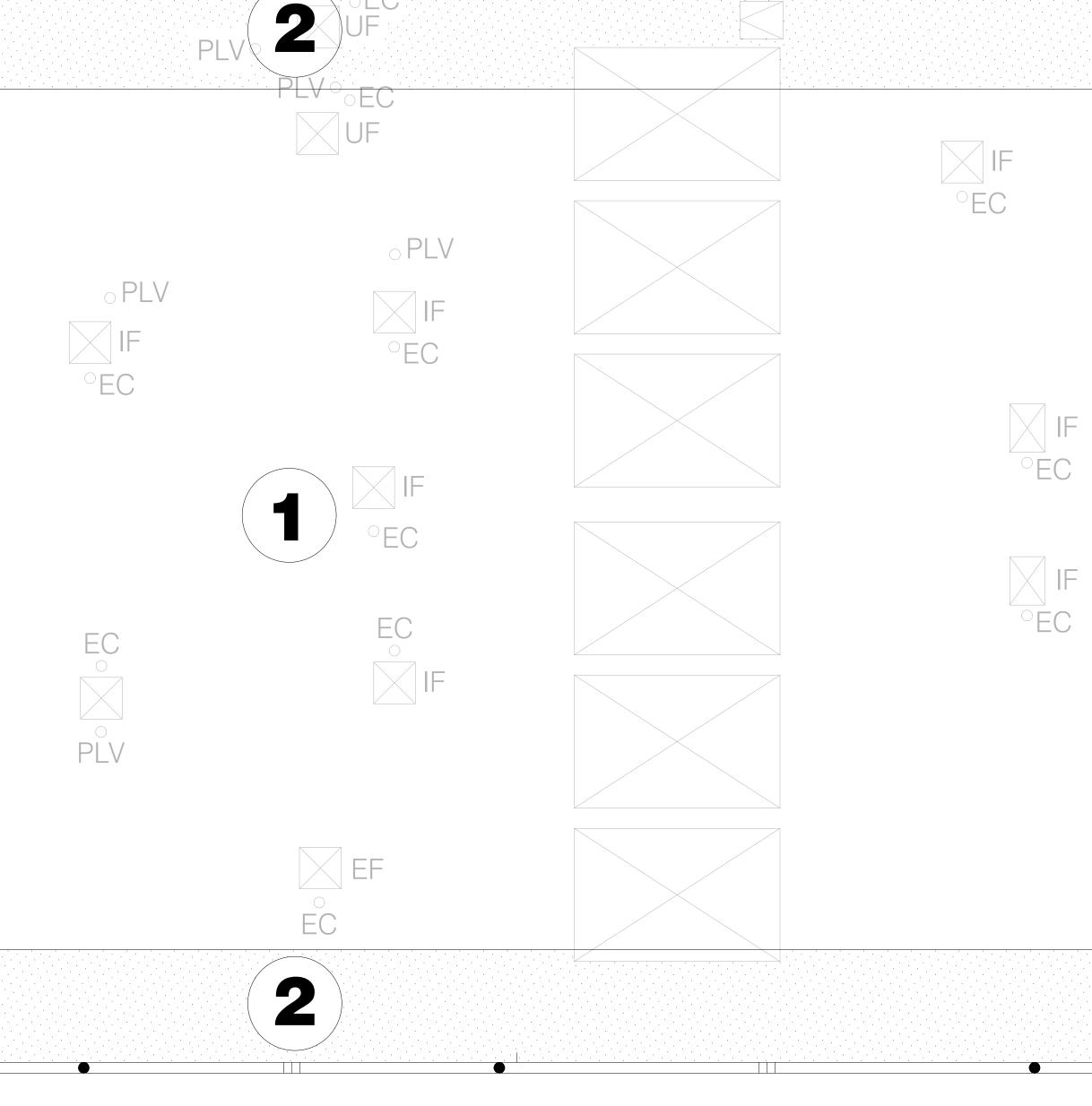
_____ ROOF EDGE

GUTTER AND DOWNSPOUT

GUTTER EXPANSION JOINT







EC

Exposure "C", Kd = 0.85, h = 25 ft., ENCLOSED BUILDING: GCpi = \pm 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 \leq 10 SF. WIND HAS BEEN CHECKED FOR AN ENCLOSED STRUCTURE AT EACH ROOF SLOPE AND HIGHEST WIND PRESSURES ARE SHOWN FOR EACH AREA.

WIND DESIGN FOR ROOFING COMPONENTS AND CLADDING:

CODES: <u>FLORIDA BUILDING CODE 2017 (6TH ED) AND ASCE 7–10</u>

ROOF REPL	ACEMENT F	PROJECT
JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM		
	REVISIONS	
NUMBER TYPE	DAT	E:
DRAWN BY:JSJ APPROVED BY: _JPA		JECT NUMBER:18-079 E:JANUARY 21, 2019
INFLUEN	IT PUMF	P STATION -
WIND UPLIFT P		
PLOT: 3/16" = 1'-0"	SHEET	A1.2

ORLANDO, FLORIDA	
ROOF REPLACEMENT PROJECT	

ORANGE COUNTY GOVERNMENT SWRF INFLUENT PUMP STATION AND SOUTH PLANT ELECTRICAL BUILDING

CONSTRUCTION DOCUMENTS

2 3

3

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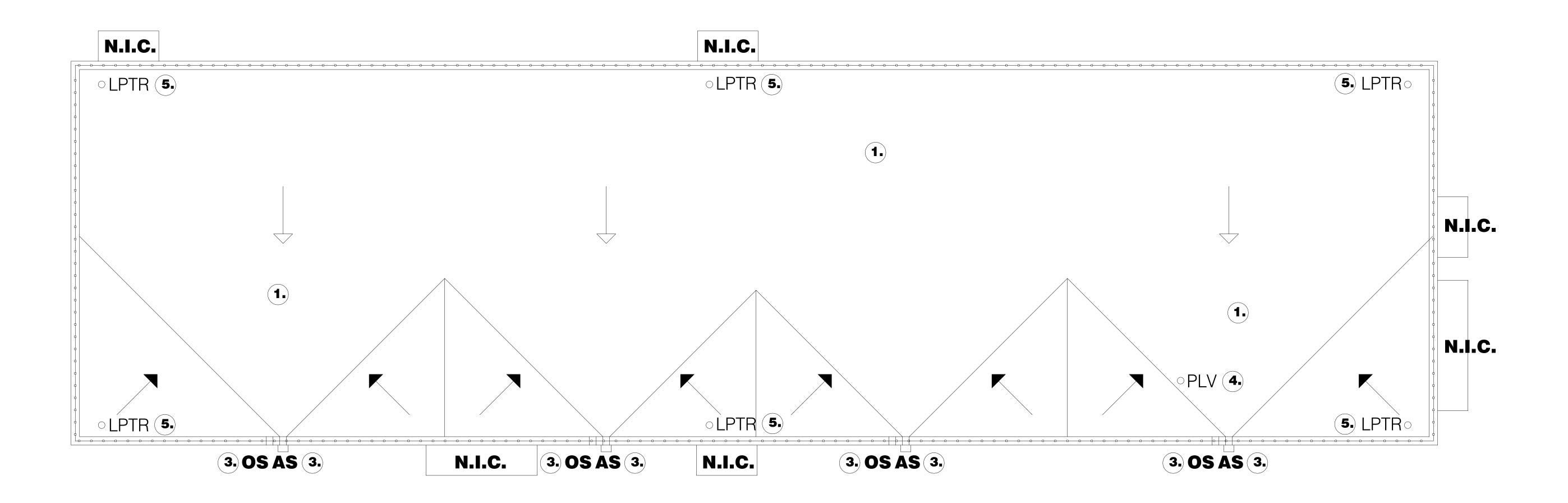
WIND UPLIFT PRESSURE LEGEND:

ASCE 7-10, Vult=150 mph wind, Vasd=116 mph wind, category ${
m I\!I}$,

ASCE 7-10 ROOF C & C DESIGN PRESSURES ZONE 1 – FIELD ZONE -32.8 PSF <u></u> ZONE 2 – EDGE ZONE -55.0 PSF ZONE 3 – CORNER ZONE 🚧 🛪 -82.8 PSF

ALL PRESSURES ARE ALLOWABLE STRESS DESIGN (ASD). DEPTH OF PERIMETER AND CORNER ZONES FROM ROOF EDGE – 'a' DIMENSION IS 7 FEET

	ROOF EDGE (SEE DEMOLITION NOTES 1 AND 2)	O	CONDUIT (SEE DEMOLITION NOTE
	ACTIVE SCUPPER		EXISTING STRUCTURAL SLOPE
AS	(SEE DEMOLITION NOTE 3)		TAPERED INSULATION SLOPE
OS	OVERFLOW SCUPPER (SEE DEMOLITION NOTE 3)	1 .	DEMOLITION NOTE
○ PLV	PLUMBING VENT (SEE DEMOLITION NOTE 4)		
∘LPTR	LIGHTNING PROTECTION THRU-ROOF CON (SEE DEMOLITION 5)	NECTOR	
-0000	LIGHTNING PROTECTION CONDUCTOR CAE (SEE DEMOLITION NOTE 5)	BLE	



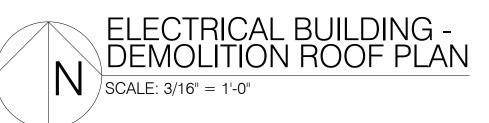
EXISTING ROOFING ASSEMBLY NOTES: EXISTING ROOFING ASSEMBLY THICKNESSES ARE APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO ROOF ASSEMBLY THICKNESSES.

EXISTING ROOFING ASSEMBLY - TYPE 1

	ROOF COMPONENTS
ROOF FINISH	SINGLE-PLY ROOF MEMBRANE
INSULATION	POLYISOCYANURATE INSULATION
TOPPING SLAB	2 INCH CONCRETE TOPPING SLAB
STRUCTURAL DECK	SLOPED HOLLOW CORE ROOF DECK
ROOF FLASHINGS	PAINTED STEEL
DRAINAGE	ACTIVE SCUPPERS AND DOWNSPOUTS

DEMOLITION NOTES

- (1.) **EXISTING ROOF ASSEMBLY:** REMOVE EXISTING SINGLE-PLY MEMBRANE FROM THE TOP OF THE EXISTING CONCRETE TOPPING SLAB.
- (2.) **EXISTING METAL FLASHINGS:** REMOVE ALL EXISTING METAL FLASHINGS UNLESS DESIGNATED
- OTHERWISE. EXISTING ACTIVE SCUPPERS AND DOWNSPOUTS: REMOVE ALL EXISTING ACTIVE SCUPPERS (3.)
- AND DOWNSPOUTS UNLESS DESIGNATED OTHERWISE. (4.) EXISTING PLUMBING VENTS TO REMAIN: REMOVE FLASHINGS AT THE EXISTING PLUMBING VENTS.
- EXISTING LIGHTNING PROTECTION: TEMPORARILY REMOVE EXISTING LIGHTNING PROTECTION ASSEMBLY.



SCOPE OF WORK

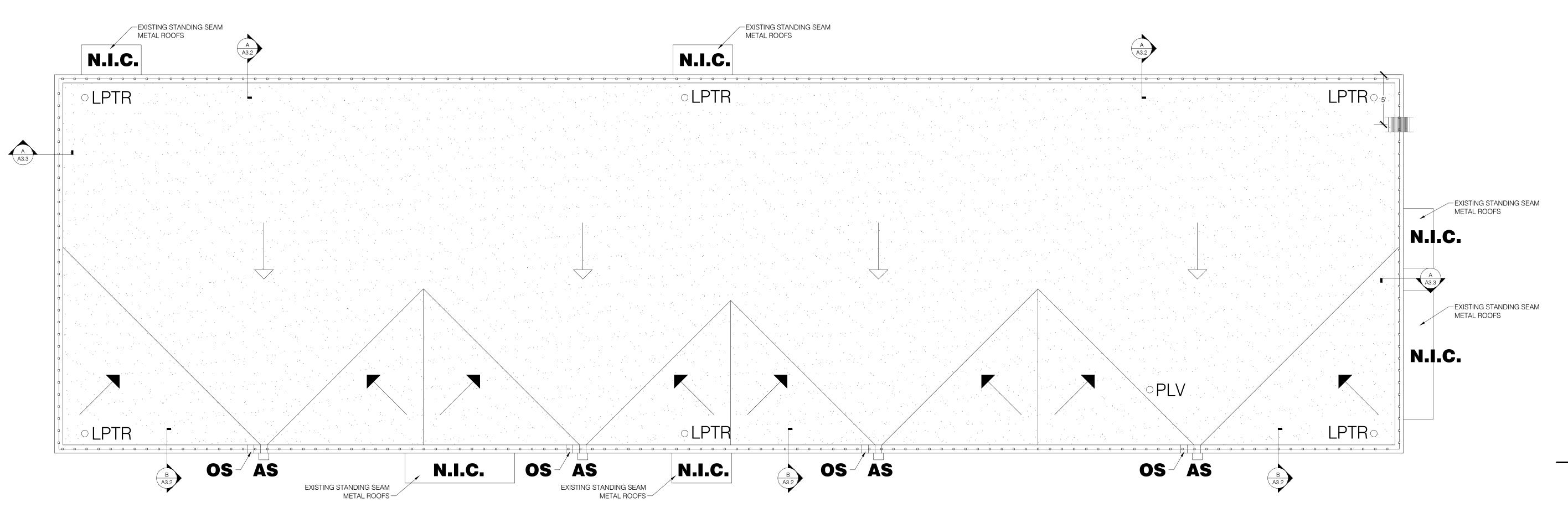
THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1.0 GENERAL:

- 1.1 ENGINEERING: CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE ATTACHMENT SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.
- 1.2 SUBSTRATE PREPARATION: PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY.
- 1.3 WARRANTY: THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURER'S OF THE ROOFING ASSEMBLY AND SHALL RECEIVE A 20 YEAR NDL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NDL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.
- 1.4 SUBSTRATE PREPARATION: REPLACE ALL DETERIORATED SUBSTRATE MATERIAL TO A CONDITION REQUIRED BY THE ROOF MEMBRANE MANUFACTURER. PREPARE ALL EXISTING SURFACES TO WHICH NEW OR REINSTALLED COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY THE MANUFACTURER OF EACH NEW COMPONENT. REPLACE OR REPAIR ALL DAMAGED SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOF MEMBRANE, SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING MEMBRANE THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE PROPOSED ROOF ASSEMBLY.
- 2.0 ROOFING ASSEMBLY · PUMP STATION: SEE SHEET A1.0.
- 3.0 ROOFING ASSEMBLY ELECTRIC BUILDING:
- 3.1 DEMOLITION: REMOVE EXISTING ROOF MEMBRANE AND INSULATION FROM TOP SURFACE OF EXISTING CONCRETE TOPPING SLAB. REMOVE ALL METAL FLASHINGS INCLUDING BUT NOT LIMITED TO THE COPINGS, COUNTERFLASHINGS, AND SCUPPERS. REMOVE DESIGNATED WALL SURFACES FOR INSTALLATION OF NEW EMERGENCY OVERFLOW SCUPPERS. 3.2 INSTALLATION OF NEW ROOFING ASSEMBLY: PRIME THE EXISTING CONCRETE TOPPING SLAB AND TORCH APPLY A VAPOR BARRIER. COMPOSED OF A MODIFIED BITUMINOUS MEMBRANE. OVER THE CONCRETE TOPPING SLAB. INSTALL FLAT INSULATION OVER THE STRUCTURALLY SLOPED EXISTING ROOF DECK AND TAPERED INSULATION AT THE CRICKETS, IN A MINIMUM OF TWO
- STAGGERED LAYERS, ADHERED WITH URETHANE ADHESIVE OVER THE TEMPORARY ROOF MEMBRANE. INSTALL TAPERED INSULATION CRICKETS AS REQUIRED TO ACHIEVE A MINIMUM SURFACE SLOPE OF 1/4 INCH PER LINEAR FOOT POSITIVE SLOPE TOWARD THE SCUPPERS. INSTALL A 1/2 INCH COVER BOARD IN URETHANE ADHESIVE OVER THE INSULATION AND UP ALL ADJACENT WALL SURFACES. TORCH APPLY A SMOOTH MODIFIED BITUMINOUS MEMBRANE BASE SHEET OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP SHEET OVER THE BASE SHEET. AT ALL BASE FLASHINGS, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING OUTER PLY OVER THE COVER BOARDS AT THE ADJACENT VERTICAL WALLS.
- 3.3 INSTALLATION OF NEW METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. NEW FLASHINGS INCLUDE BUT ARE NOT LIMITED TO COPINGS, SCUPPERS, AND LIGHTING PROTECTION ROOF PENETRATIONS.
- 3.4 INSTALLATION OF NEW DOWNSPOUTS: FABRICATE AND INSTALL NEW PVC DOWNSPOUTS SECURED WITH STAINLESS STEEL STRAPS. PAINT DOWNSPOUTS TO MATCH COLOR OF EXISTING WALLS. 3.5 LIGHTNING PROTECTION: REMOVE ALL LIGHTNING PROTECTION ASSEMBLY COMPONENTS ATTACHED TO THE ROOFING ASSEMBLY, INCLUDING BUT NOT LIMITED TO, AIR TERMINALS, CONDUCTOR CABLES, ATTACHMENT COMPONENTS, AND RELATED FASTENERS. REPLACE ALL EXISTING LIGHTNING PROTECTION WITH NEW COMPONENTS THAT WILL BE COMPATIBLE WITH THE NEW
- ROOFING ASSEMBLY. WHERE EXISTING LIGHTNING PROTECTION DOES NOT EXIST, INSTALL A NEW LIGHTNING PROTECTION ASSEMBLY. TIE-IN THE NEW LIGHTNING PROTECTION ASSEMBLY COMPONENTS WITH THE EXISTING LIGHTNING PROTECTION GROUNDING COMPONENTS USING BI-METAL CONNECTORS WHERE MATERIAL COMPATIBILITY WILL NOT AFFECT THE NEW ROOFING ASSEMBLY. INSTALL ALL LIGHTNING PROTECTION ASSEMBLIES AND COMPONENTS BY A QUALIFIED, LICENSED LIGHTNING PROTECTION INSTALLER WITH A MINIMUM OF 5 YEARS EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS IN ACCORDANCE WITH NFPA-780 AND ALL APPLICABLE BUILDING CODES.
- 3.6 ROOF ACCESS LADDER: INSTALL NEW ROOF ACCESS LADDER. SEE SHEET A3.8 FOR SPECIFICATION AND DETAILS.

CONSTRUCTION	DOCUMENTS
ORANGE COUNTY O	GOVERNMENT
SWRF INFLUENT P	UMP STATION
AND SOUTH PLANT ELECT ORLANDO, FL	
ROOF REPLACEM	ENT PROJECT
JAY AMMON ARCH 3246 LAKEVIEW OAKS DRIVE • LO (407) 333-1977 • FAX: (407) 333-4686	,
REVISIO	NS
NUMBER TYPE	NS
NUMBER TYPE	DATE:
NUMBER TYPE	DATE: PROJECT NUMBER: <u>18-079</u> DATE: JANUARY 21, 2019
NUMBER TYPE	DATE: PROJECT NUMBER: <u>18-079</u> DATE: JANUARY 21, 2019 AL BUILDING -

	PARAPET WALL (SEE DETAILS A/A3.2, B/A3.2 AND A/A3.3)		ROOFING ASSEMBLY - TYPE 1 (SEE DETAIL A/A3.1)
	ACTIVE SCUPPER (SEE DETAIL SHEET A3.4)		NEW ROOF SLOPE - 1/4:12
AS			EXISTING ROOF SLOPE
OS	OVERFLOW SCUPPER (SEE DETAIL SHEET A3.5)	N.I.C.	EXISTING STANDING SEAM METAL ROOFS - NOT IN CONTRACT
○ PLV	PLUMBING VENT (SEE DETAILS D/A3.7 AND E/A3.7)	4	NEW CONSRUCTION NOTE DESIGNATION
∘ LPTR	LIGHTNING PROTECTION THRU-ROOF CONNECTOR (SEE DETAIL A/A3.7)	A A2.2	SECTION DESIGNATION
-0-0-0-0	LIGHTNING PROTECTION CONDUCTOR CABLE (SEE DETAILS B/A3.7 AND C/A3.7)		
	NEW ROOF ACCESS LADDER (SEE SHEET A3.8)		



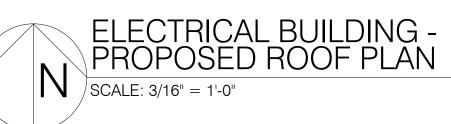
EXISTING ROOFING ASSEMBLY NOTES: EXISTING ROOFING ASSEMBLY THICKNESSES ARE APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO ROOF ASSEMBLY THICKNESSES.

PROPOSED ROOFING ASSEMBLY - TYPE 1

	ROOF COMPONENTS
ROOF MEMBRANE	GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER BASE PLY
COVER BOARD	1/2" COVER BOARD
TAPERED INSULATION	TAPERED POLYISOCYANURATE INSULATION
FLAT INSULATION	FLAT POLYISOCYANURATE INSULATION
TEMPORARY ROOF	SAND-SURFACED MODIFIED BITUMEN PLY
EXISTING TOPPING SLAB	PRIME EXISTING CONCRETE TOPPING SLAB WITH ASTM D41 PRIMER
EXISTING STRUCTURAL DECK	EXISTING SLOPED HOLLOW CORE ROOF DECK
ROOF FLASHINGS	STAINLESS STEEL
DRAINAGE	ACTIVE SCUPPERS, DOWNSPOUTS AND OVERFLOW SCUPPERS

NEW CONSTRUCTION NOTES

1. ONE-PIECE TRANSITION FLASHING: INSTALL NEW ONE-PIECE TRANSITION FLASHING WITH ALL WELDED NON-MOVING JOINTS. PREPARE IN-PLACE MOCKUP FOR OWNER AND A/E APPROVAL.



SCOPE OF WORK

THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1.0 GENERAL:

- **1.1 ENGINEERING:** CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE ATTACHMENT SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.
- **1.2 SUBSTRATE PREPARATION:** PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY.
- **1.3 WARRANTY:** THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURER'S OF THE ROOFING ASSEMBLY AND SHALL RECEIVE A 20 YEAR NDL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NDL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.
- 1.4 SUBSTRATE PREPARATION: REPLACE ALL DETERIORATED SUBSTRATE MATERIAL TO A CONDITION REQUIRED BY THE ROOF MEMBRANE MANUFACTURER. PREPARE ALL EXISTING SURFACES TO WHICH NEW OR REINSTALLED COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY THE MANUFACTURER OF EACH NEW COMPONENT. REPLACE OR REPAIR ALL DAMAGED SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOF MEMBRANE, SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING MEMBRANE THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE PROPOSED ROOF ASSEMBLY.
- 2.0 ROOFING ASSEMBLY · PUMP STATION: SEE SHEET A1.1.

3.0 ROOFING ASSEMBLY - ELECTRIC BUILDING:

- 3.1 DEMOLITION: REMOVE EXISTING ROOF MEMBRANE AND INSULATION FROM TOP SURFACE OF EXISTING CONCRETE TOPPING SLAB. REMOVE ALL METAL FLASHINGS INCLUDING BUT NOT LIMITED TO THE COPINGS, COUNTERFLASHINGS, AND SCUPPERS. REMOVE DESIGNATED WALL SURFACES FOR INSTALLATION OF NEW EMERGENCY OVERFLOW SCUPPERS.
 3.2 INSTALLATION OF NEW ROOFING ASSEMBLY: PRIME THE EXISTING CONCRETE TOPPING SLAB AND TORCH APPLY A VAPOR BARRIER, COMPOSED OF A MODIFIED BITUMINOUS MEMBRANE, OVER THE CONCRETE TOPPING SLAB. INSTALL FLAT INSULATION OVER THE STRUCTURALLY SLOPED EXISTING ROOF DECK AND TAPERED INSULATION AT THE CRICKETS, IN A MINIMUM OF TWO
- OVER THE STRUCTORALLY SLOPED EXISTING ROOF DECK AND TAPERED INSULATION AT THE CRICKETS, IN A MINIMUM OF TWO STAGGERED LAYERS, ADHERED WITH URETHANE ADHESIVE OVER THE TEMPORARY ROOF MEMBRANE. INSTALL TAPERED INSULATION CRICKETS AS REQUIRED TO ACHIEVE A MINIMUM SURFACE SLOPE OF 1/4 INCH PER LINEAR FOOT POSITIVE SLOPE TOWARD THE SCUPPERS. INSTALL A 1/2 INCH COVER BOARD IN URETHANE ADHESIVE OVER THE INSULATION AND UP ALL ADJACENT WALL SURFACES. TORCH APPLY A SMOOTH MODIFIED BITUMINOUS MEMBRANE BASE SHEET OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP SHEET OVER THE BASE SHEET. AT ALL BASE FLASHINGS, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING OUTER PLY OVER THE SUPPORT OF THE AD MODENT VERTICAL WALLS.
- OVER THE COVER BOARDS AT THE ADJACENT VERTICAL WALLS. **3.3 INSTALLATION OF NEW METAL FLASHINGS:** FABRICATE AND INSTALL STAINLESS STEEL FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. NEW FLASHINGS INCLUDE BUT ARE NOT LIMITED TO COPINGS, SCUPPERS, AND LIGHTING PROTECTION ROOF PENETRATIONS.
- 3.4 INSTALLATION OF NEW DOWNSPOUTS: FABRICATE AND INSTALL NEW PVC DOWNSPOUTS SECURED WITH STAINLESS STEEL STRAPS. PAINT DOWNSPOUTS TO MATCH COLOR OF EXISTING WALLS.
 3.5 LIGHTNING PROTECTION: REMOVE ALL LIGHTNING PROTECTION ASSEMBLY COMPONENTS ATTACHED TO THE ROOFING ASSEMBLY, INCLUDING BUT NOT LIMITED TO, AIR TERMINALS, CONDUCTOR CABLES, ATTACHMENT COMPONENTS, AND RELATED FASTENERS. REPLACE ALL EXISTING LIGHTNING PROTECTION WITH NEW COMPONENTS THAT WILL BE COMPATIBLE WITH THE NEW
- ROOFING ASSEMBLY. WHERE EXISTING LIGHTNING PROTECTION DOES NOT EXIST, INSTALL A NEW LIGHTNING PROTECTION ASSEMBLY. TIE-IN THE NEW LIGHTNING PROTECTION ASSEMBLY COMPONENTS WITH THE EXISTING LIGHTNING PROTECTION GROUNDING COMPONENTS USING BI-METAL CONNECTORS WHERE MATERIAL COMPATIBILITY WILL NOT AFFECT THE NEW ROOFING ASSEMBLY. INSTALL ALL LIGHTNING PROTECTION ASSEMBLIES AND COMPONENTS BY A QUALIFIED, LICENSED LIGHTNING PROTECTION INSTALLER WITH A MINIMUM OF 5 YEARS EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS IN ACCORDANCE WITH NFPA-780 AND ALL APPLICABLE BUILDING CODES.
- 3.6 ROOF ACCESS LADDER: INSTALL NEW ROOF ACCESS LADDER. SEE SHEET A3.8 FOR SPECIFICATION AND DETAILS.

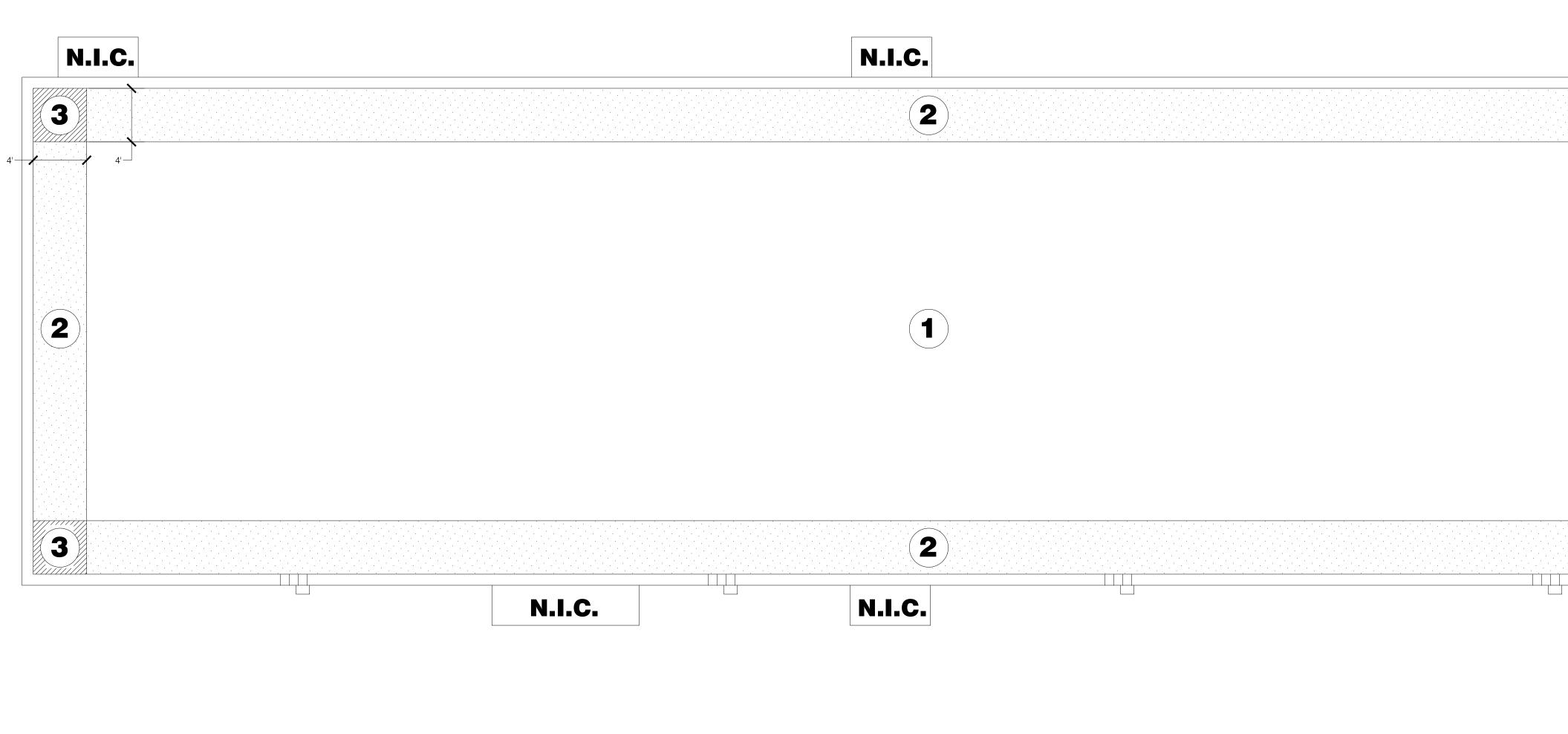
CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SWRF INFLUENT PUMP STATION AND SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA ROOF REPLACEMENT PROJECT JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE . LONGWOOD, FLORIDA 32779 407) 333-1977 🔹 FAX: (407) 333-4686 🔹 E MAIL: JAY@JAYAMMON.CON REVISIONS DATE: PROJECT NUMBER: 18-079 DRAWN BY: _____JSJ APPROVED BY: JPA DATE: JANUARY 21, 2019 ELECTRICAL BUILDING -PROPOSED ROOF PLAN

SHEET

PLOT: 3/16" = 1'-0"

A1.4

ROOF EDGE



WIND DESIGN FOR ROOFING COMPONENTS AND CLADDING: ASCE 7-10, Vult=150 mph wind, Vasd=116 mph wind, category ${
m I\!I}$, Exposure "C", Kd = 0.85, h = 25 ft., ENCLOSED BUILDING: GCpi = \pm 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 \leq 10 SF. WIND HAS BEEN CHECKED FOR AN ENCLOSED STRUCTURE AT EACH ROOF SLOPE AND HIGHEST WIND PRESSURES ARE SHOWN FOR EACH AREA.

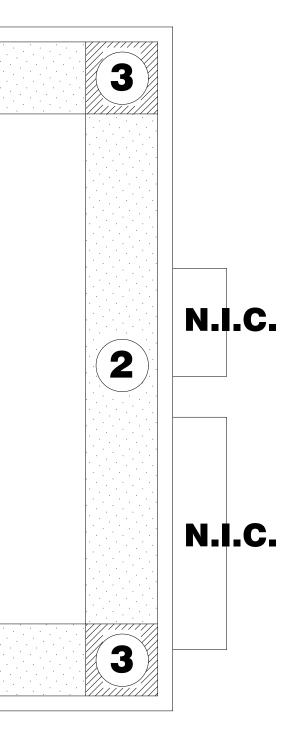
CODES: <u>FLORIDA BUILDING CODE 2017 (6TH ED) AND ASCE 7–10</u>

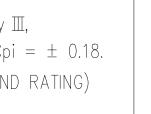


	SWRF INFLU		MP ST/	ATION	
S	OUTH PLANT E	,		UILDING	à
	ROOF REPLA		NT PRC	JECT	
32 (407) 333-197	JAY AMMO 246 LAKEVIEW OAKS DR 7 = FAX: (407) 333	IVE . LONG	WOOD, FLC	ORIDA 32779	MON.COM
		EVISIONS			
NUMBER	TYPE		DATE:		
DRAWN BY: APPROVED B				NUMBER: JANUARY	
WIND	ELECT UPLIFT PR				
PLOT: 3/16"	" = 1'-0"	SHEET		A1	.5

CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT



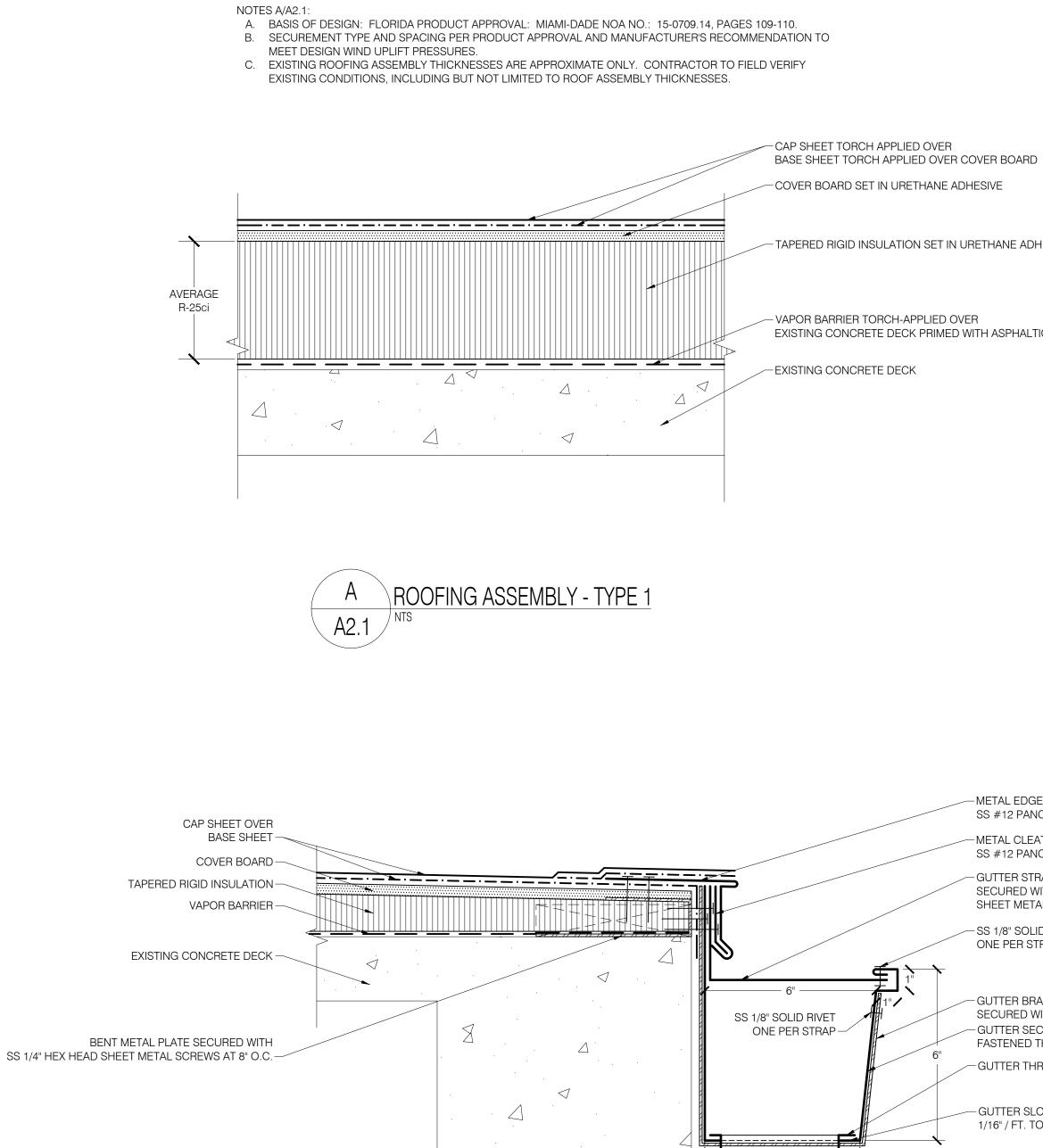


ALL PRESSURES ARE ALLOWABLE STRESS DESIGN (ASD).

DEPTH OF PERIMETER AND CORNER ZONES FROM ROOF EDGE – 'a' DIMENSION IS 4 FEET

WIND UPLIFT PRESSURE LEG	<u>SEND:</u>	ASCE 7-10 ROOF C & C DESIGN PRESSURES
ZONE 1 – FIELD ZONE		-32.8 PSF
ZONE 2 – EDGE ZONE	<u>kana</u> 2	-55.0 PSF
ZONE 3 – CORNER ZONE	3	-82.8 PSF

WIND PRESSURES:



SECTION THROUGH ROOF EDGE - TYPICAL В A2.1

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EXISTING MASONRY WALL -

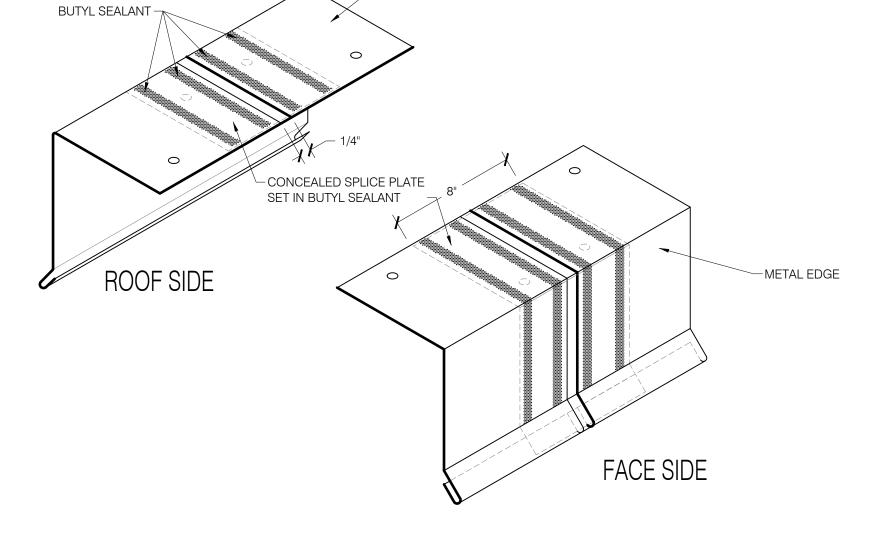
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- TAPERED RIGID INSULATION SET IN URETHANE ADHESIVE

EXISTING CONCRETE DECK PRIMED WITH ASPHALTIC PRIMER AT .75 GAL/SQ.



-METAL EDGE



-METAL EDGE SECURED WITH SS #12 PANCAKE HEAD SHEET METAL SCREWS AT 3" O.C STAGGERED 1/2"
-METAL CLEAT SECURED WITH SS #12 PANCAKE HEAD SHEET METAL SCREWS AT 8" O.C.
- GUTTER STRAP AT 30" O.C ALTERNATE W/ HANGERS SECURED WITH SS #12 PANCAKE HEAD SHEET METAL SCREWS - TWO PER STRAP

- SS 1/8" SOLID RIVET ONE PER STRAP

> - GUTTER BRACKET AT 30" O.C. - ALTERNATE W/STRAPS TO START 6" FROM ENDS SECURED WITH SS #12 PANCAKE HEAD SHEET METAL SCREWS - TWO PER BRACKET - GUTTER SECURED WITH SS #12 PANCAKE HEAD SHEET METAL SCREW AT 8" O.C. FASTENED THROUGH SLOTTED HOLES

- GUTTER THROAT SOLDERED TO FLOOR OF GUTTER

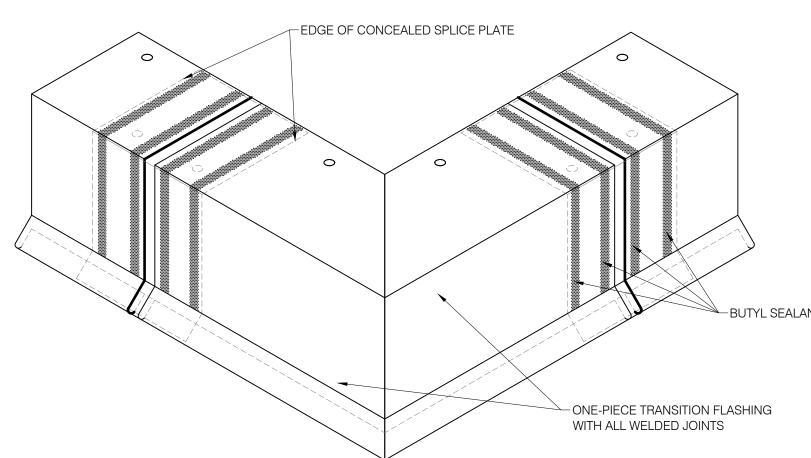
-GUTTER SLOPE A MINIMUM OF 1/16" / FT. TO DOWNSPOUT

SLOPE OF GUTTER - BEYOND

0

DOWNSPOUT STRAP

NOTE: METAL CLEAT, STRIPPING PLY AND CAP SHEET NOT SHOWN FOR CLARITY.





MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. **BASE FLASHING - OUTER PLY:** SBS GRANULE SURFACED

MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA. **BASE SHEET:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY ARBS

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN. ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER.

VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164. TYPE 1. TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION SECTION 07600

BENT METAL PLATE: 16 GAGE, GALVANIZED G90. **METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 316.**

METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316.

METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE **METAL TRIM FLASHING:** 22 GAGE STAINLESS STEEL, TYPE 316.

PRE-MANUFACTURED METAL COPING: 22 GAGE STAINLESS STEEL, TYPE 316.

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

GUTTER AND DOWNSPOUTS SPECIFICATION SECTION 07631

ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. CONDUCTOR HEAD STRAP: 16 GAGE STAINLESS STEEL, TYPE

316 **DOWNSPOUT:** SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL DOWNSPOUT STRAPS: .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED. GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM.

GUTTER STRAPS: .050" PRE-PAINTED ALUMINUM. OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

SCUPPER PLATE: 22 GAGE STAINLESS STEEL, TYPE 316. **SKYLIGHT GUTTER:** 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

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.



ORANGE COUNTY GOVERNMENT SWRF INFLUENT PUMP STATION

AND SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA

ROOF REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE · LONGWOOD, FLORIDA 32779 (407) 333-1977
FAX: (407) 333-4686
E MAIL: JAY@JAYAMMON.COM

REVISIONS DATE: NUMBER TYPE

DRAWN BY: _____JSJ APPROVED BY: JPA

> INFLUENT PUMP STATION -**ROOF DETAILS**

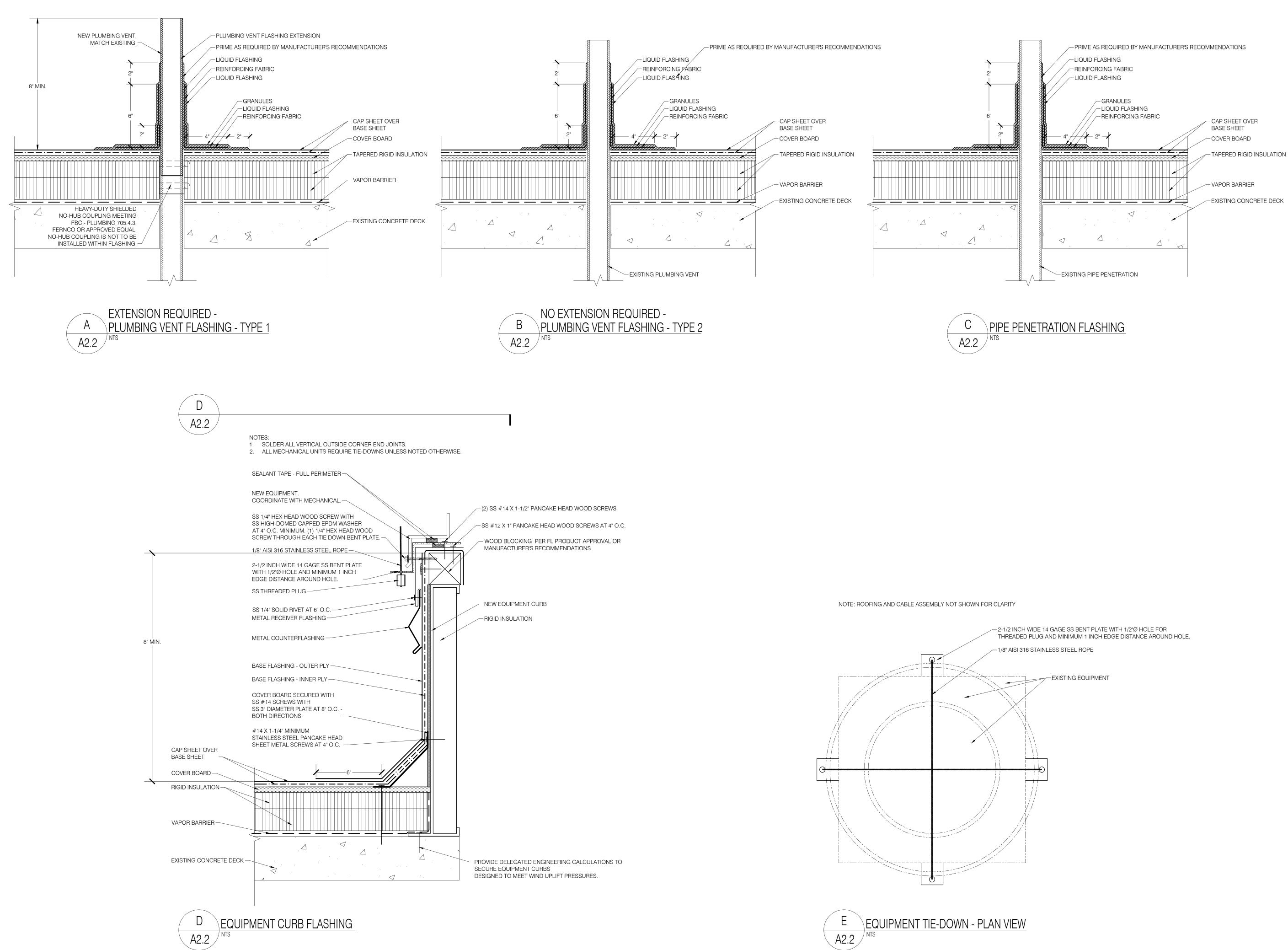
PLOT: 3" = 1'-0"

SHEET

PROJECT NUMBER: 18-079

DATE: JANUARY 21, 2019

BUTYL SEALANT



MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA. **BASE SHEET:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY A.R.B.S.

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION

SECTION 07600 BENT METAL PLATE: 16 GAGE, GALVANIZED G90.

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE

METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316. METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE

METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316. **PRE-MANUFACTURED METAL COPING: 22 GAGE STAINLESS**

STEEL. TYPE 316 TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

GUTTER AND DOWNSPOUTS SPECIFICATION

SECTION 07631 ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. CONDUCTOR HEAD STRAP: 16 GAGE STAINLESS STEEL, TYPE

316. **DOWNSPOUT:** SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL DOWNSPOUT STRAPS: .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED. GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM.

GUTTER STRAPS: .050" PRE-PAINTED ALUMINUM. OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

SCUPPER PLATE: 22 GAGE STAINLESS STEEL, TYPE 316. **SKYLIGHT GUTTER:** 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

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,

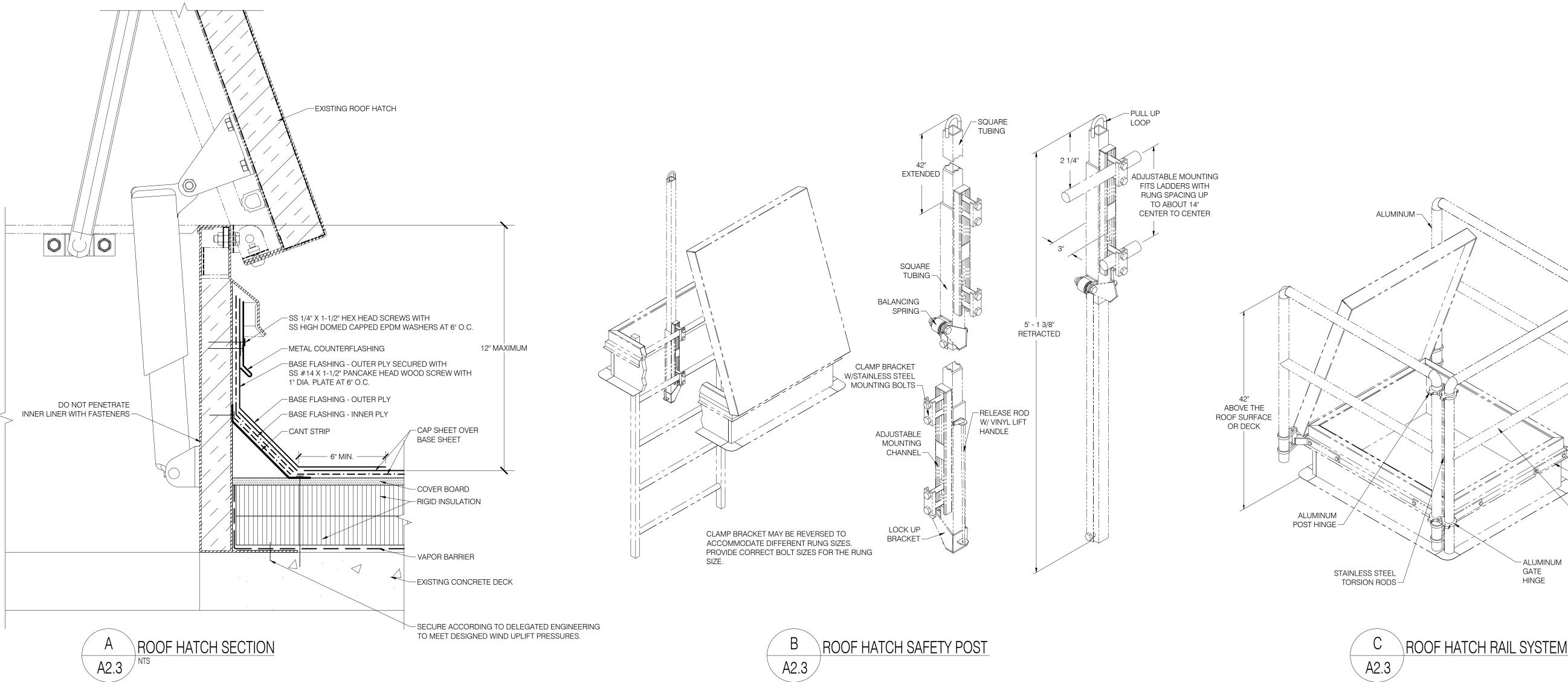
POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SWRF INFLUENT PUMP STATION AND SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA ROOF REPLACEMENT PROJECT JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE CONGWOOD, FLORIDA 32779 (407) 333-1977 SAX: (407) 333-4686 SAX: JAY@JAYAMMON.COM REVISIONS NUMBER TYPE DATE: DRAWN BY: _____JSJ PROJECT NUMBER: _____18-079__ DATE: JANUARY 21, 2019 APPROVED BY: JPA

INFLUENT PUMP STATION -ROOF DETAILS

PLOT: 3" = 1'-0"

SHEE



2. TOP OF ROOF HATCH CURB TO TOP OF FINISHED ROOF SURFACE TO BE NO GREATER THAN 12 INCHES. 3. AT OUTSIDE CORNER TRANSTION FLASHING FULLY SOLDER ALL NON-MOVING JOINTS.

NOTES FOR A/A2.3: 1. TOP OF EXISTING LADDER RUNG TO TOP OF ROOF HATCH CURB TO BE NO GREATER THAN 12 INCHES.



NOTES FOR B/A2.3: 1. BASIS OF DESIGN: MODEL BASED ON SIZE MANUFACTURED BY BILCO. NOTES FOR C/A2.3: 1. BASIS OF DESIGN: MODEL BASED ON SIZE MANUFACTURED BY BILCO.

MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"

MANUFACTURED BY USG. **RIGID INSULATION:** POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA. **BASE SHEET:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY A.R.B.S.

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION

SECTION 07600 BENT METAL PLATE: 16 GAGE, GALVANIZED G90.

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE 316

METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316. METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE

METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316. **PRE-MANUFACTURED METAL COPING:** 22 GAGE STAINLESS STEEL TYPE 316.

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

GUTTER AND DOWNSPOUTS SPECIFICATION SECTION 07631

ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. CONDUCTOR HEAD STRAP: 16 GAGE STAINLESS STEEL, TYPE

316. **DOWNSPOUT:** SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL. DOWNSPOUT STRAPS: .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM. GUTTER STRAPS: .050" PRE-PAINTED ALUMINUM. OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

SCUPPER PLATE: 22 GAGE STAINLESS STEEL, TYPE 316. **SKYLIGHT GUTTER:** 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

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.

ALUMINUM POST SUPPORT -CORNER BRACKETS SELF CLOSING GATE

NUMBER TYI 	=	/ISIONS	DATE:		
DRAWN BY: APPROVED BY:			PROJECT N DATE:		
IN	IFLUENT		ИР S ⁻ DOF	.,	
PLOT: 3" = 1'-0)"	SHEET		A2	2.3

43 H

CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT

SWRF INFLUENT PUMP STATION

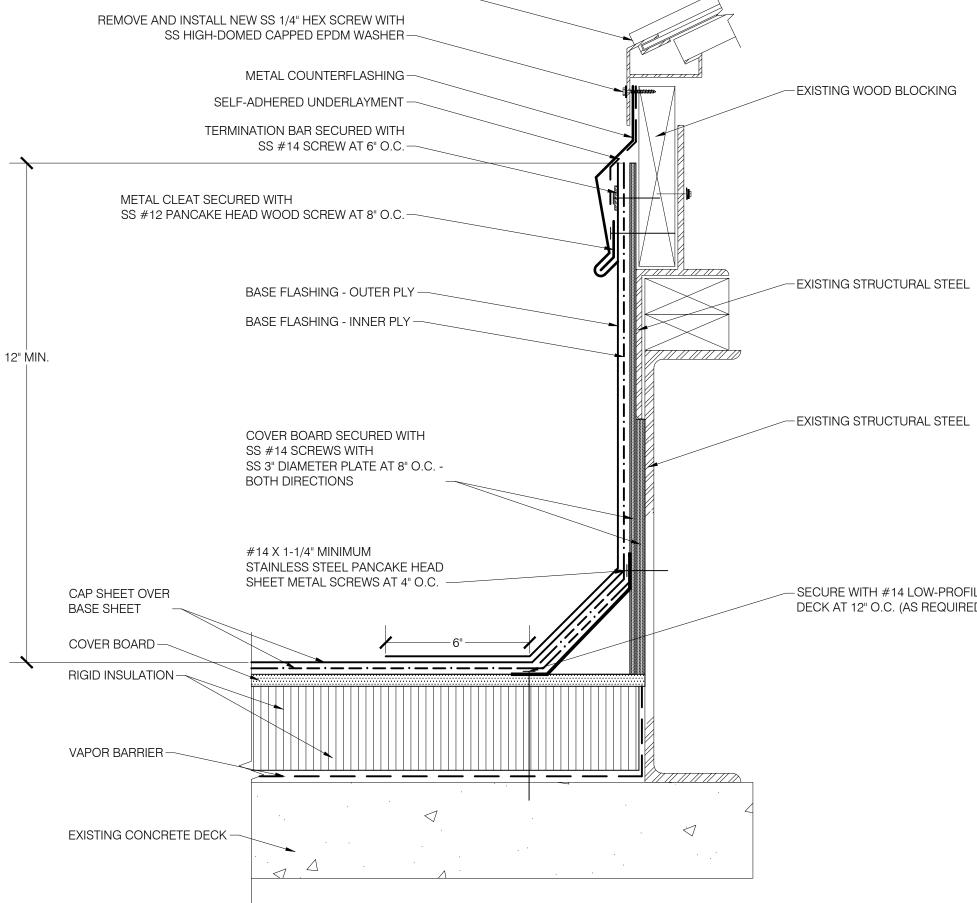
AND

SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA

ROOF REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE · LONGWOOD, FLORIDA 32779 (407) 333-1977
FAX: (407) 333-4686
E MAIL: JAY@JAYAMMON.COM





EXISTING SKYLIGHT ASSEMBLY -



- SECURE WITH #14 LOW-PROFILE STAINLESS STEEL CONCRETE ANCHOR INTO DECK AT 12" O.C. (AS REQUIRED TO PREVENT "LIFTING")

- EXISTING STRUCTURAL STEEL

Δ

SEE SIMILAR FLASHING DETAIL A/A2.4 ----

MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"

MANUFACTURED BY USG. **RIGID INSULATION:** POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA. **BASE SHEET:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY A.R.B.S.

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH

GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION

SECTION 07600 BENT METAL PLATE: 16 GAGE, GALVANIZED G90.

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE 316

METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316. METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE

METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316. **PRE-MANUFACTURED METAL COPING:** 22 GAGE STAINLESS STEEL TYPE 316.

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

GUTTER AND DOWNSPOUTS SPECIFICATION SECTION 07631

ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. CONDUCTOR HEAD STRAP: 16 GAGE STAINLESS STEEL, TYPE

316 **DOWNSPOUT:** SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL. DOWNSPOUT STRAPS: .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM. GUTTER STRAPS: .050" PRE-PAINTED ALUMINUM. OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

SCUPPER PLATE: 22 GAGE STAINLESS STEEL, TYPE 316. SKYLIGHT GUTTER: 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

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.

- SKYLIGHT GUTTER SLOPED - BEYOND

-SKYLIGHT GUTTER SLOPED AT 1/2" PER FOOT

CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SWRF INFLUENT PUMP STATION AND

SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA

ROOF REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE . LONGWOOD, FLORIDA 32779 (407) 333-1977
FAX: (407) 333-4686
E MAIL: JAY@JAYAMMON.COM

REVISIONS NUMBER TYPE DATE:

DRAWN BY: _____JSJ APPROVED BY: JPA

DATE: _____ JANUARY 21, 2019 **INFLUENT PUMP STATION -**

ROOF DETAILS

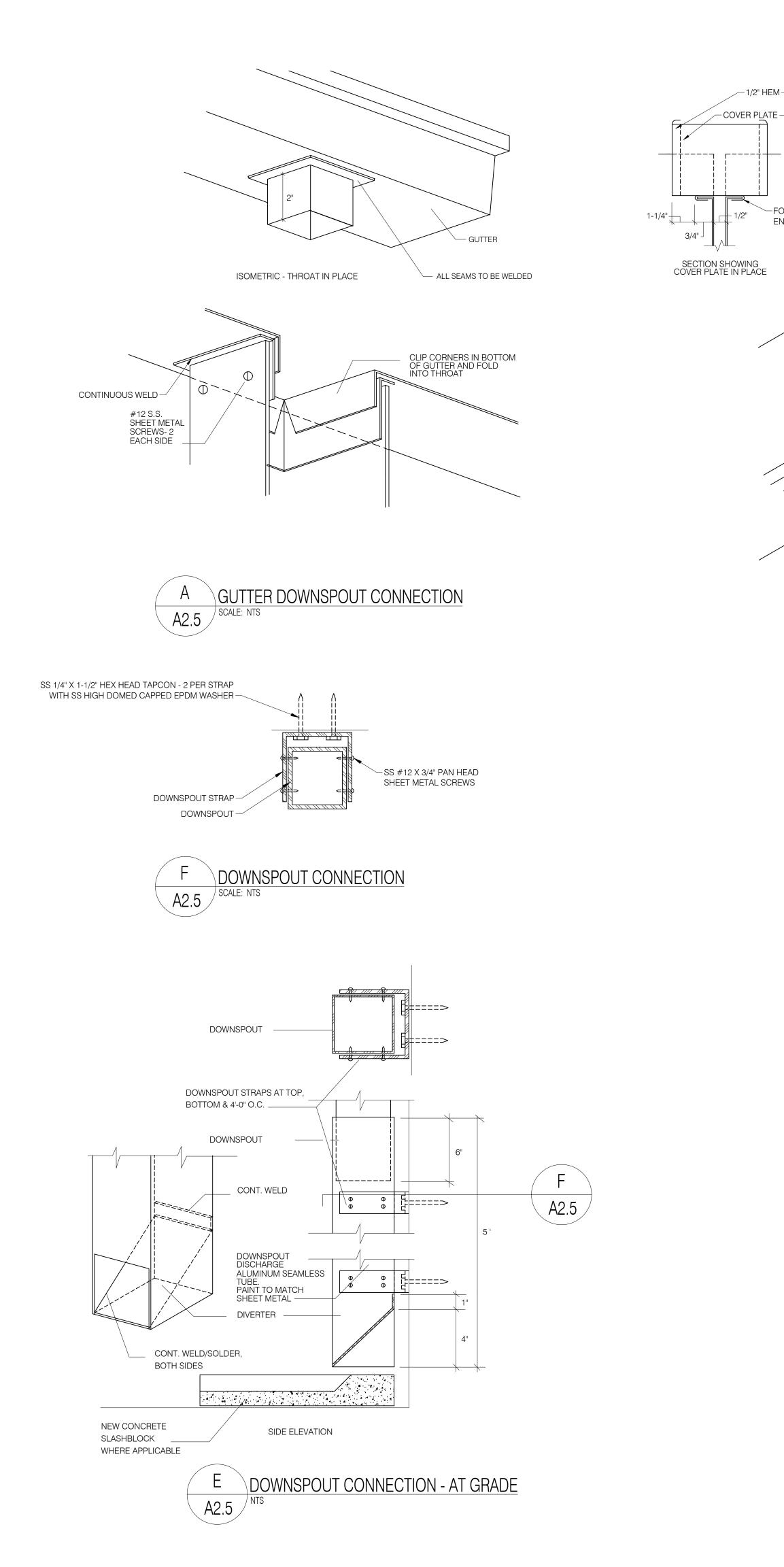
PLOT: 3" = 1'-0"

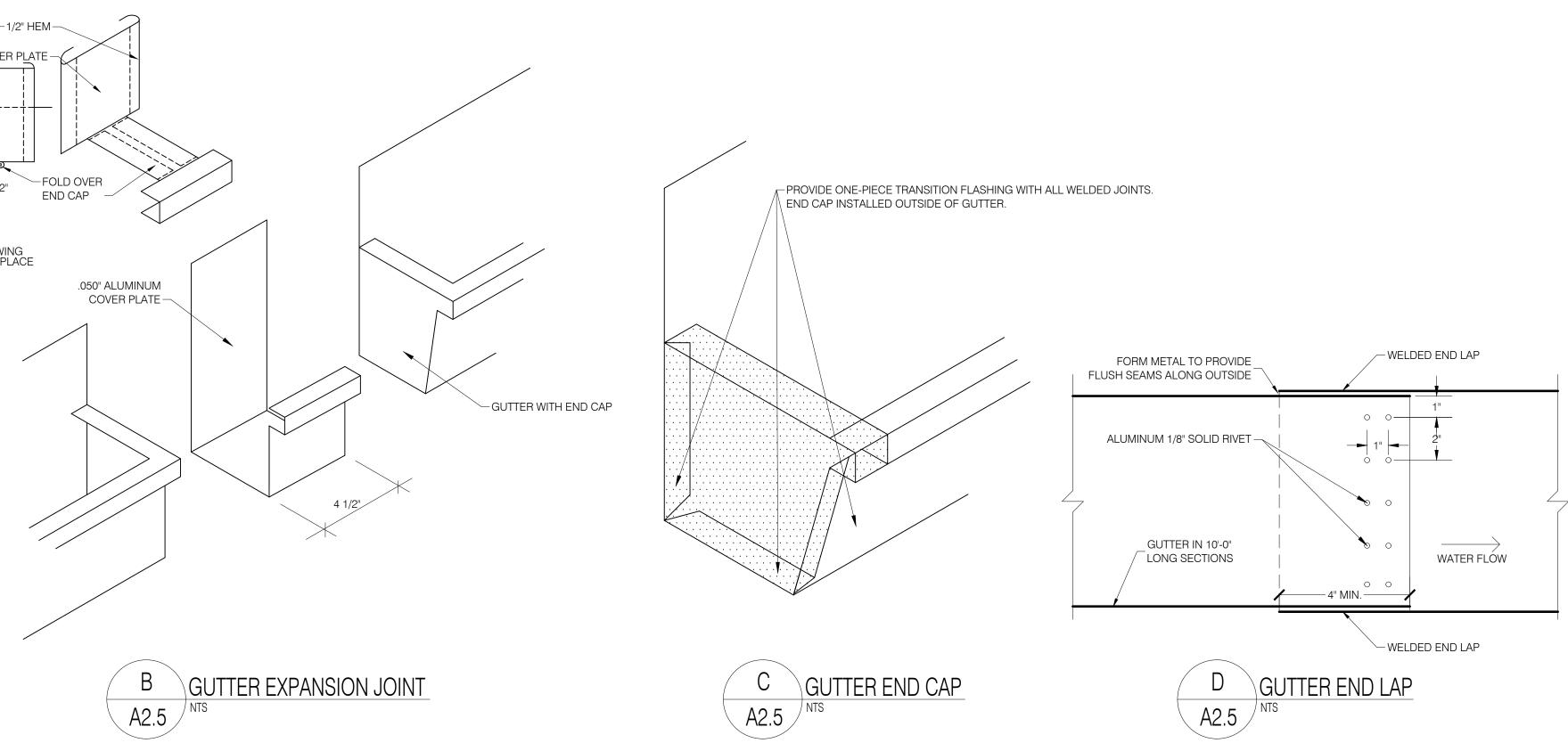
SHEET

A2.4

PROJECT NUMBER: 18-079

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MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"

MANUFACTURED BY USG. **RIGID INSULATION:** POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA. **BASE SHEET:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY A.R.B.S.

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION SECTION 07600

BENT METAL PLATE: 16 GAGE, GALVANIZED G90. **METAL CLEAT:** 22 GAGE STAINLESS STEEL, TYPE 316.

METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE 316.

METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316. METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE

METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316. **PRE-MANUFACTURED METAL COPING:** 22 GAGE STAINLESS STEEL, TYPE 316.

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

GUTTER AND DOWNSPOUTS SPECIFICATION SECTION 07631

ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. CONDUCTOR HEAD STRAP: 16 GAGE STAINLESS STEEL, TYPE

316. **DOWNSPOUT:** SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL DOWNSPOUT STRAPS: .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM. GUTTER STRAPS: .050" PRE-PAINTED ALUMINUM. OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

316 **SCUPPER PLATE:** 22 GAGE STAINLESS STEEL, TYPE 316. SKYLIGHT GUTTER: 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

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,

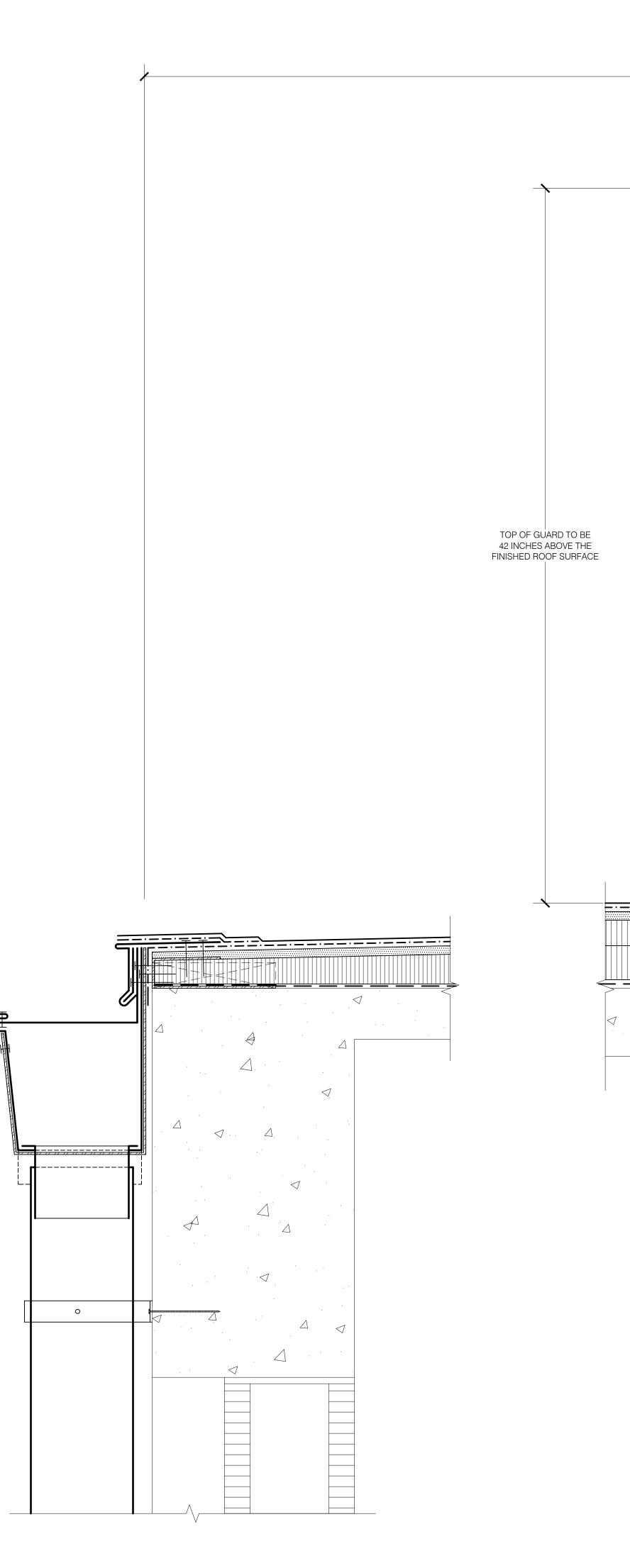
NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

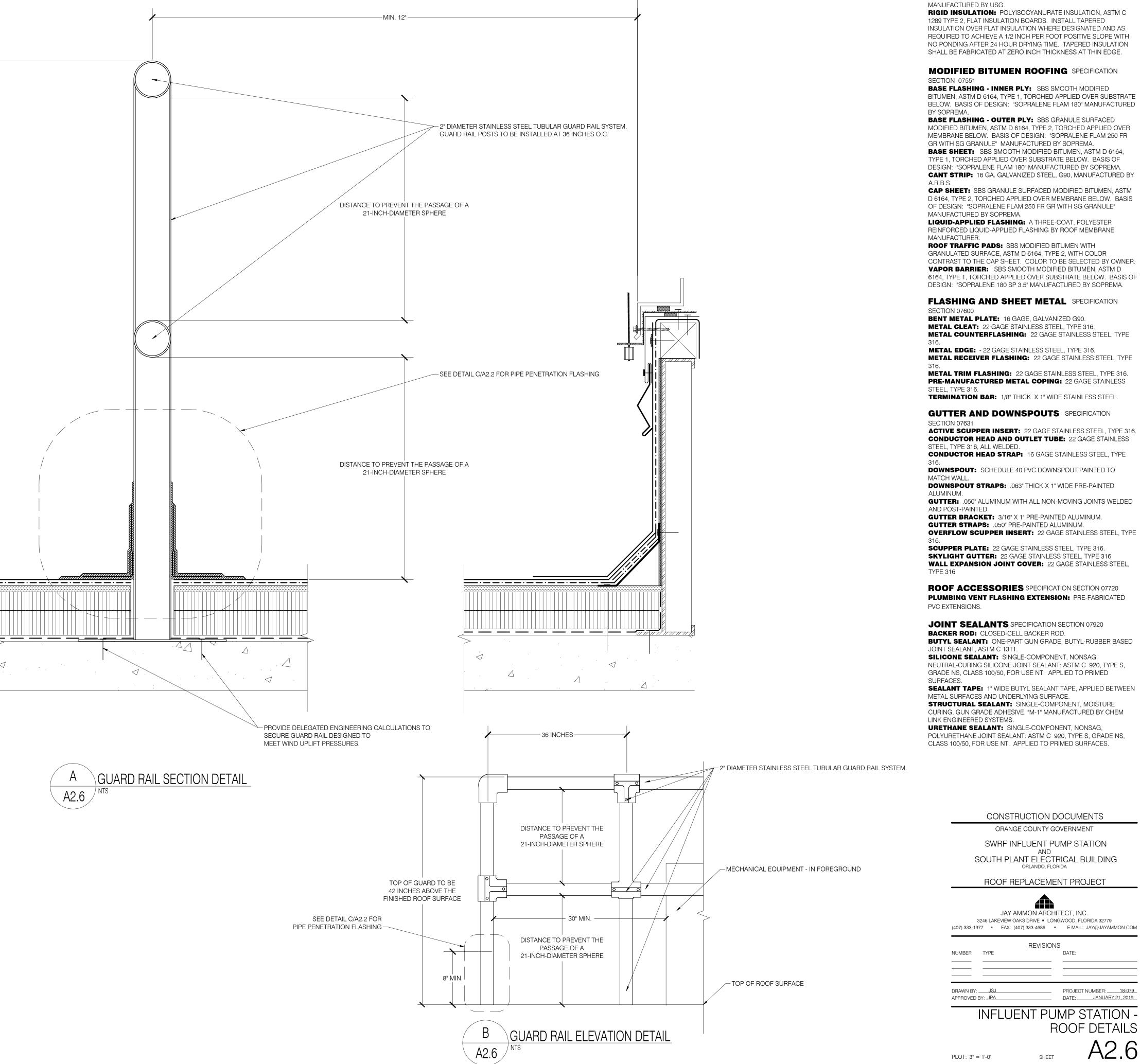
SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE. STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE

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.

CONSTR	RUCTION DOCUMENTS
ORANG	E COUNTY GOVERNMENT
SWRF IN	FLUENT PUMP STATION
SOUTH PLA	AND NT ELECTRICAL BUILDING ORLANDO, FLORIDA
ROOF RE	PLACEMENT PROJECT
3246 LAKEVIEW OA	MMON ARCHITECT, INC. AKS DRIVE • LONGWOOD, FLORIDA 32779 07) 333-4686 • E MAIL: JAY@JAYAMMON.COM
NUMBER TYPE	REVISIONS DATE:
DRAWN BY: <u>JSJ</u> APPROVED BY: <u>JPA</u>	PROJECT NUMBER: <u>18-079</u> DATE: <u>JANUARY 21, 2019</u>
INFLUE	- ENT PUMP STATION ROOF DETAILS
PLOT: 3" = 1'-0"	SHEET A2.5



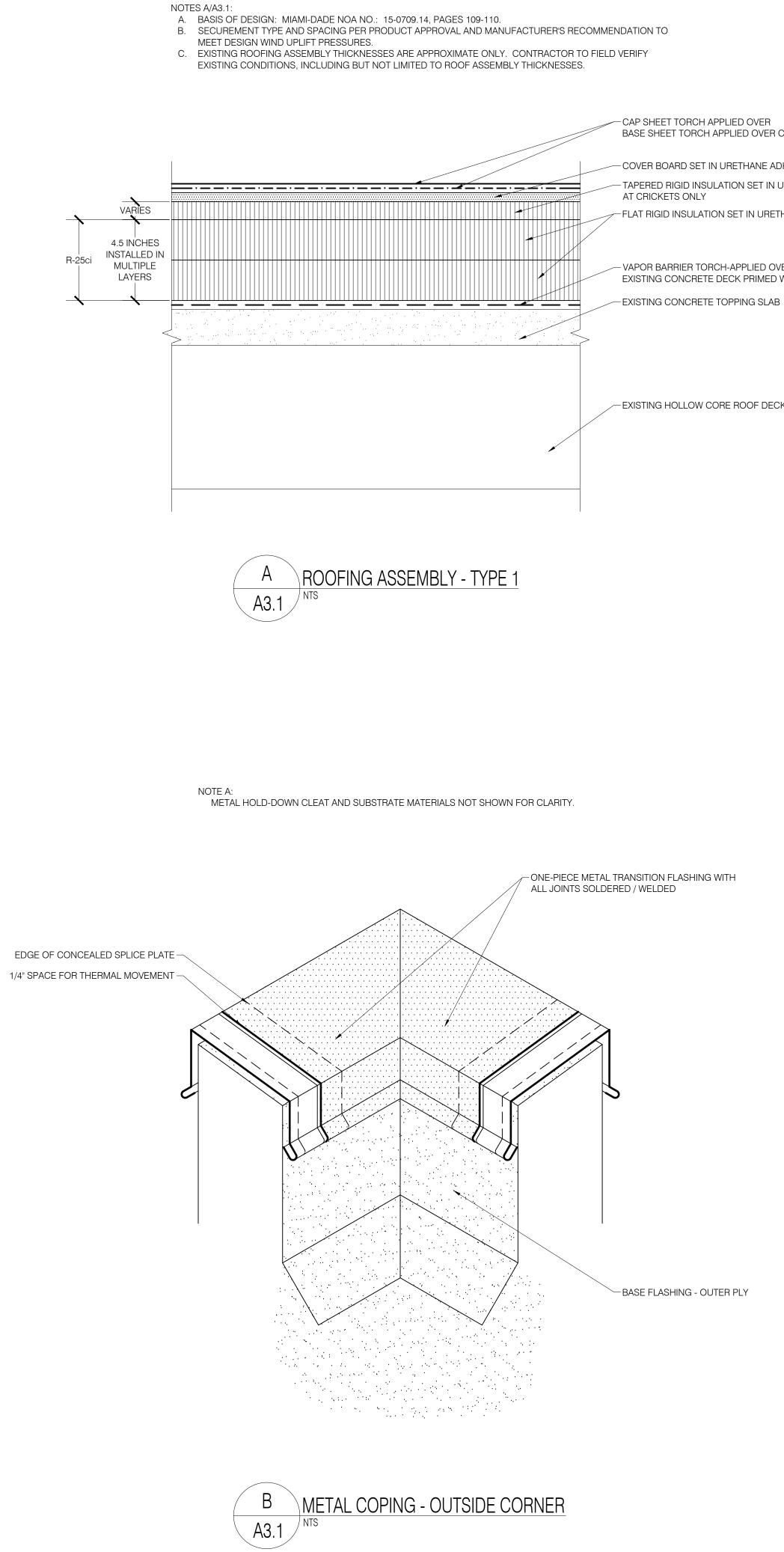


MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"

ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316.

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN



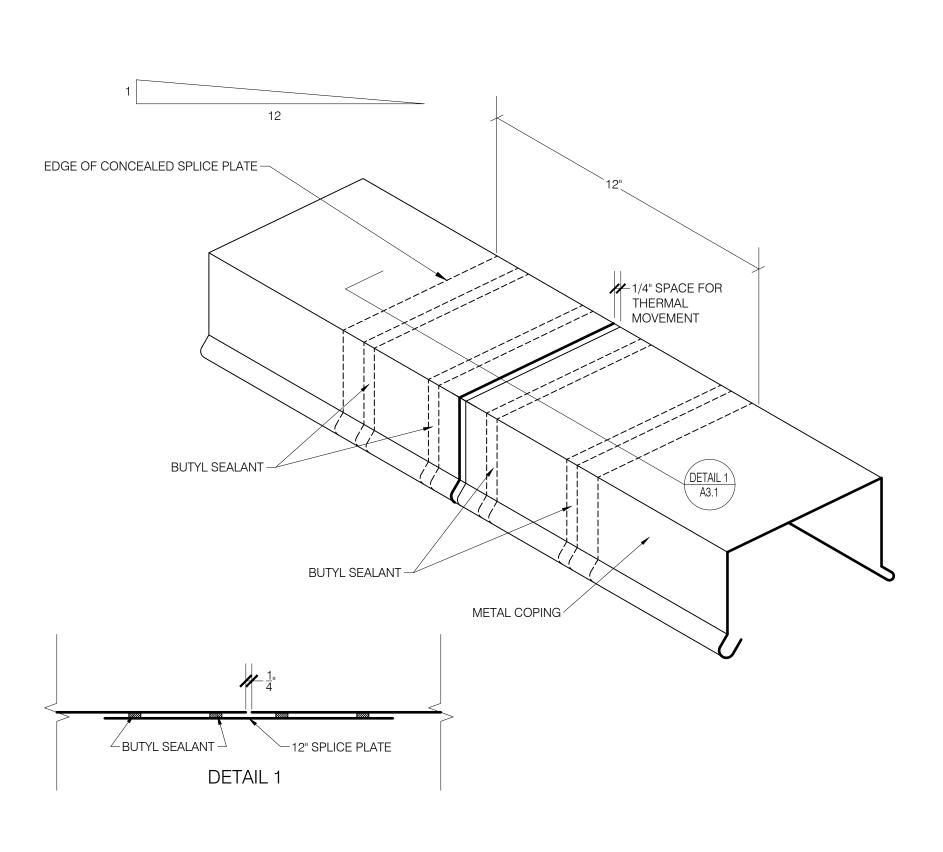
-CAP SHEET TORCH APPLIED OVER BASE SHEET TORCH APPLIED OVER COVER BOARD

- COVER BOARD SET IN URETHANE ADHESIVE - TAPERED RIGID INSULATION SET IN URETHANE ADHESIVE -FLAT RIGID INSULATION SET IN URETHANE ADHESIVE

- VAPOR BARRIER TORCH-APPLIED OVER EXISTING CONCRETE DECK PRIMED WITH ASPHALTIC PRIMER AT .75 GAL/SQ.

- EXISTING HOLLOW CORE ROOF DECK

NOTE A: METAL HOLD-DOWN CLEAT AND SUBSTRATE MATERIALS NOT SHOWN FOR CLARITY.





MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA. **BASE SHEET:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY A.R.B.S.

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH

GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION

SECTION 07600 BENT METAL PLATE: 16 GAGE, GALVANIZED G90.

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE

316 METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316. METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE

METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316. **PRE-MANUFACTURED METAL COPING:** 22 GAGE STAINLESS

STEEL, TYPE 316. **TERMINATION BAR:** 1/8" THICK X 1" WIDE STAINLESS STEEL.

GUTTER AND DOWNSPOUTS SPECIFICATION

SECTION 07631 ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. CONDUCTOR HEAD STRAP: 16 GAGE STAINLESS STEEL, TYPE

316 **DOWNSPOUT:** SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL DOWNSPOUT STRAPS: .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM. GUTTER STRAPS: .050" PRE-PAINTED ALUMINUM. OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

SCUPPER PLATE: 22 GAGE STAINLESS STEEL, TYPE 316. **SKYLIGHT GUTTER:** 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

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 SWRF INFLUENT PUMP STATION

AND SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA

ROOF REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE · LONGWOOD, FLORIDA 32779 (407) 333-1977
FAX: (407) 333-4686
E MAIL: JAY@JAYAMMON.COM

REVISIONS DATE: NUMBER TYPE

DRAWN BY: _____JSJ APPROVED BY: JPA

ELECTRICAL BUILDING -**ROOF DETAILS**

METAL COPING - CONCEALED SPLICE PLATE

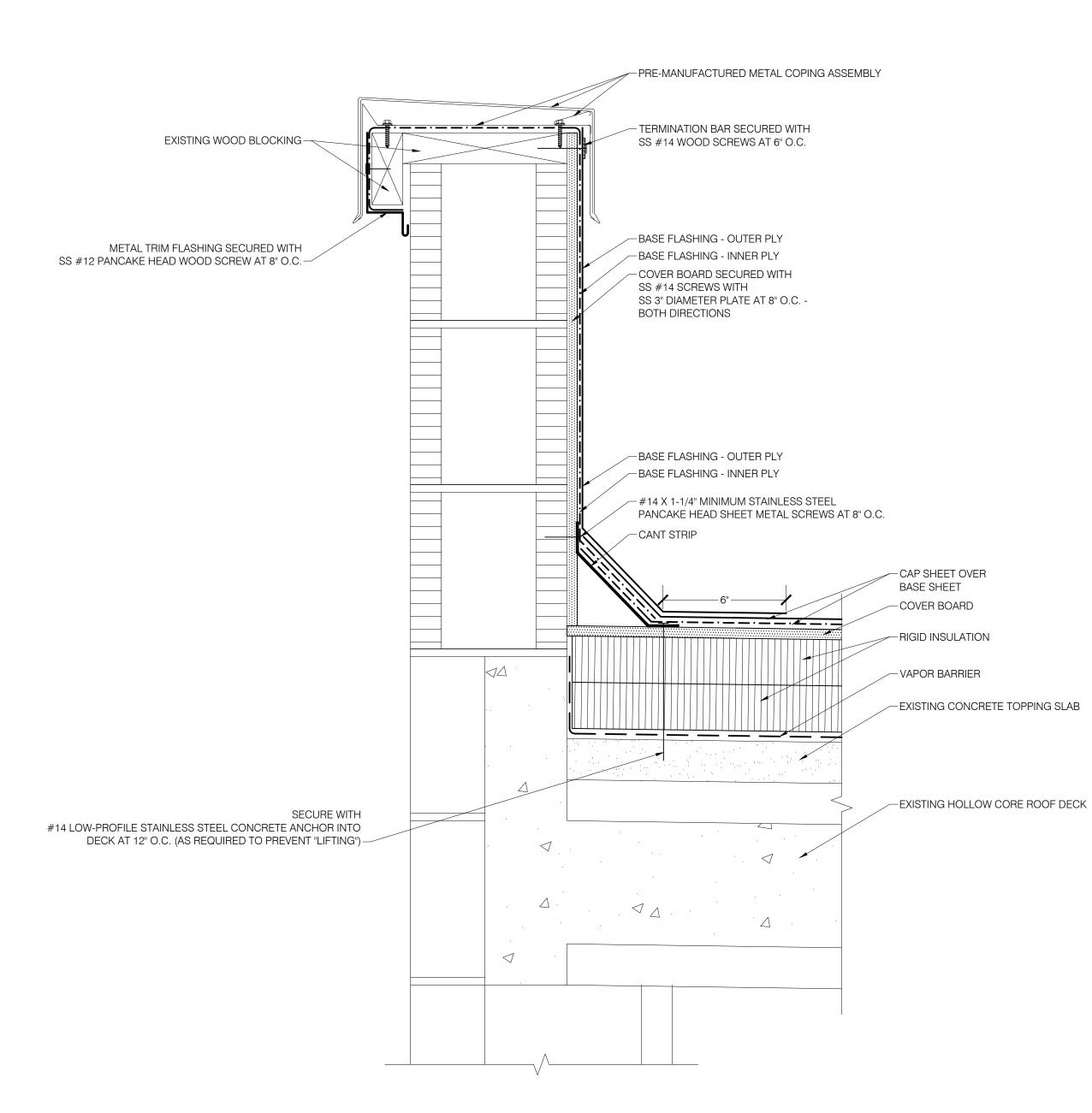
PLOT: 3" = 1'-0"

SHEET

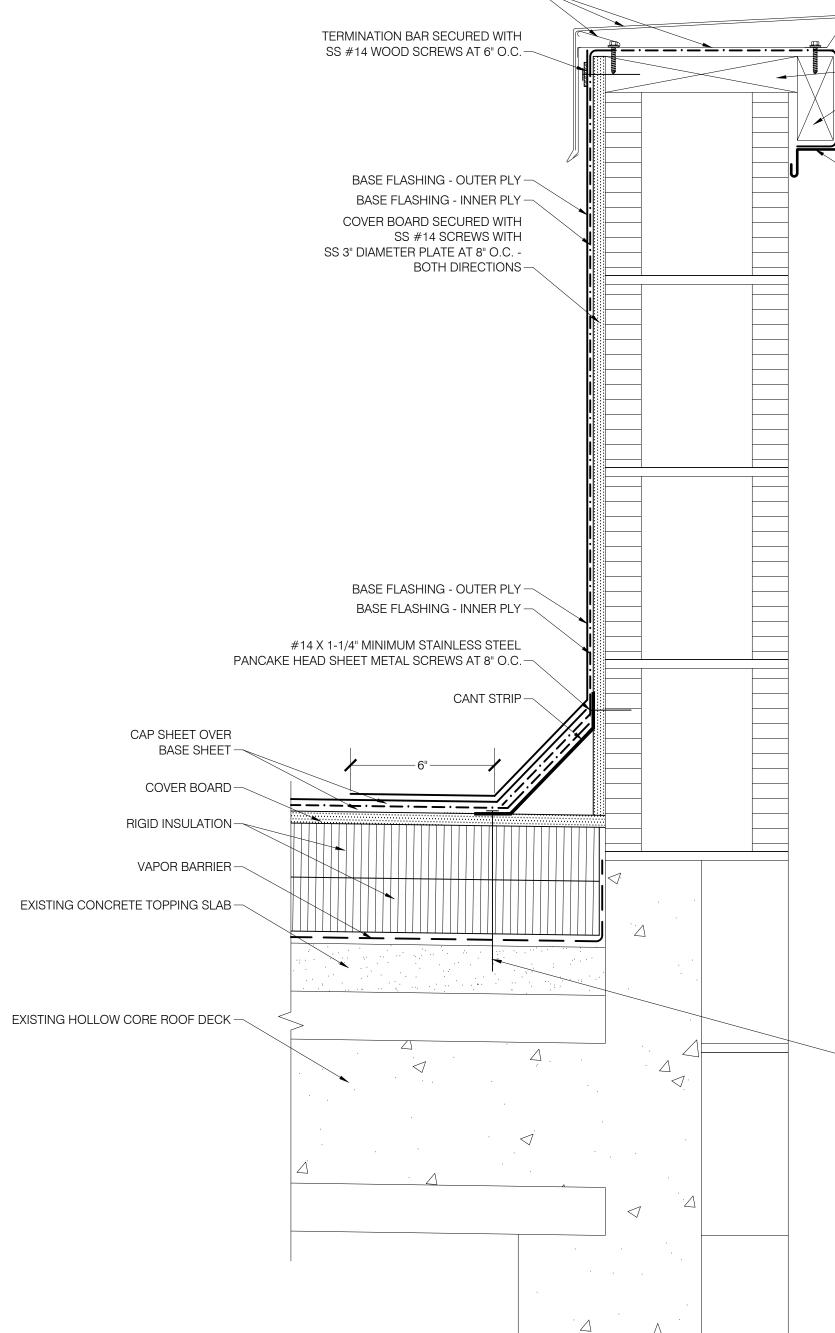
A3.1

PROJECT NUMBER: 18-079

DATE: JANUARY 21, 2019



A SECTION THROUGH PARAPET WALL A3.2 NTS



PRE-MANUFACTURED METAL COPING ASSEMBLY -



EXISTING WOOD BLOCKING

- METAL TRIM FLASHING SECURED WITH SS #12 PANCAKE HEAD WOOD SCREW AT 8" O.C.

MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 **COVER BOARD:** 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED
MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER
MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR
GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.
BASE SHEET: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF
DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.
CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY
A.R.B.S.

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION

SECTION 07600 BENT METAL PLATE: 16 GAGE, GALVANIZED G90.

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE 316.

METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316. METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316. METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316.

PRE-MANUFACTURED METAL COPING: 22 GAGE STAINLESS STEEL, TYPE 316. TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

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

GUTTER AND DOWNSPOUTS SPECIFICATION SECTION 07631

ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. CONDUCTOR HEAD STRAP: 16 GAGE STAINLESS STEEL, TYPE

316. DOWNSPOUT: SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL. **DOWNSPOUT STRAPS:** .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM. GUTTER STRAPS: .050" PRE-PAINTED ALUMINUM. OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

SCUPPER PLATE: 22 GAGE STAINLESS STEEL, TYPE 316. SKYLIGHT GUTTER: 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 **PLUMBING VENT FLASHING EXTENSION:** PRE-FABRICATED PVC EXTENSIONS.

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.

- SECURE WITH #14 LOW-PROFILE STAINLI

#14 LOW-PROFILE STAINLESS STEEL CONCRETE ANCHOR INTO DECK AT 12" O.C. (AS REQUIRED TO PREVENT "LIFTING")

CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT

AND SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA

ROOF REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM

REVISIONSNUMBERTYPEDATE:

DRAWN BY: JSJ

APPROVED BY: JPA

ELECTRICAL BUILDING -

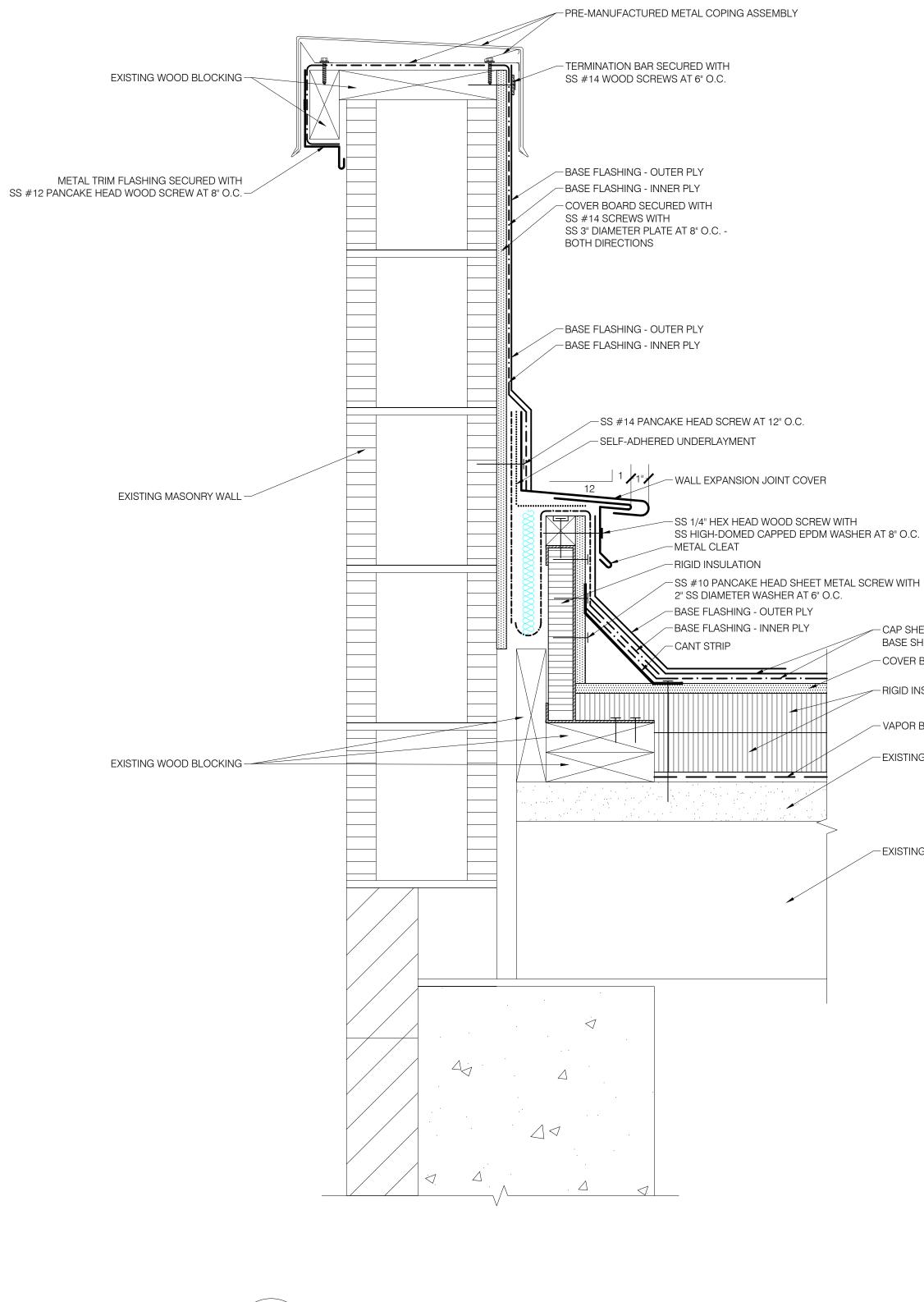
ROOF DETAILS

PLOT: 3" = 1'-0"

SHEET

A3.2

PROJECT NUMBER: <u>18-079</u> DATE: <u>JANUARY 21, 2019</u>



SECTION THROUGH WALL EXPANSION JOINT

А

A3.3

NTS

EXISTING HOLLOW CORE ROOF DECK

- VAPOR BARRIER - EXISTING CONCRETE TOPPING SLAB

-RIGID INSULATION

- CAP SHEET OVER BASE SHEET -COVER BOARD

MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220

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

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA. **BASE SHEET:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY A.R.B.S.

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH

GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION

SECTION 07600 BENT METAL PLATE: 16 GAGE, GALVANIZED G90.

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE

METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316.

METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316.

PRE-MANUFACTURED METAL COPING: 22 GAGE STAINLESS STEEL, TYPE 316. **TERMINATION BAR:** 1/8" THICK X 1" WIDE STAINLESS STEEL.

GUTTER AND DOWNSPOUTS SPECIFICATION SECTION 07631

ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. CONDUCTOR HEAD STRAP: 16 GAGE STAINLESS STEEL, TYPE

316. **DOWNSPOUT:** SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL DOWNSPOUT STRAPS: .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM. GUTTER STRAPS: .050" PRE-PAINTED ALUMINUM. OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

SCUPPER PLATE: 22 GAGE STAINLESS STEEL, TYPE 316. SKYLIGHT GUTTER: 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

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,

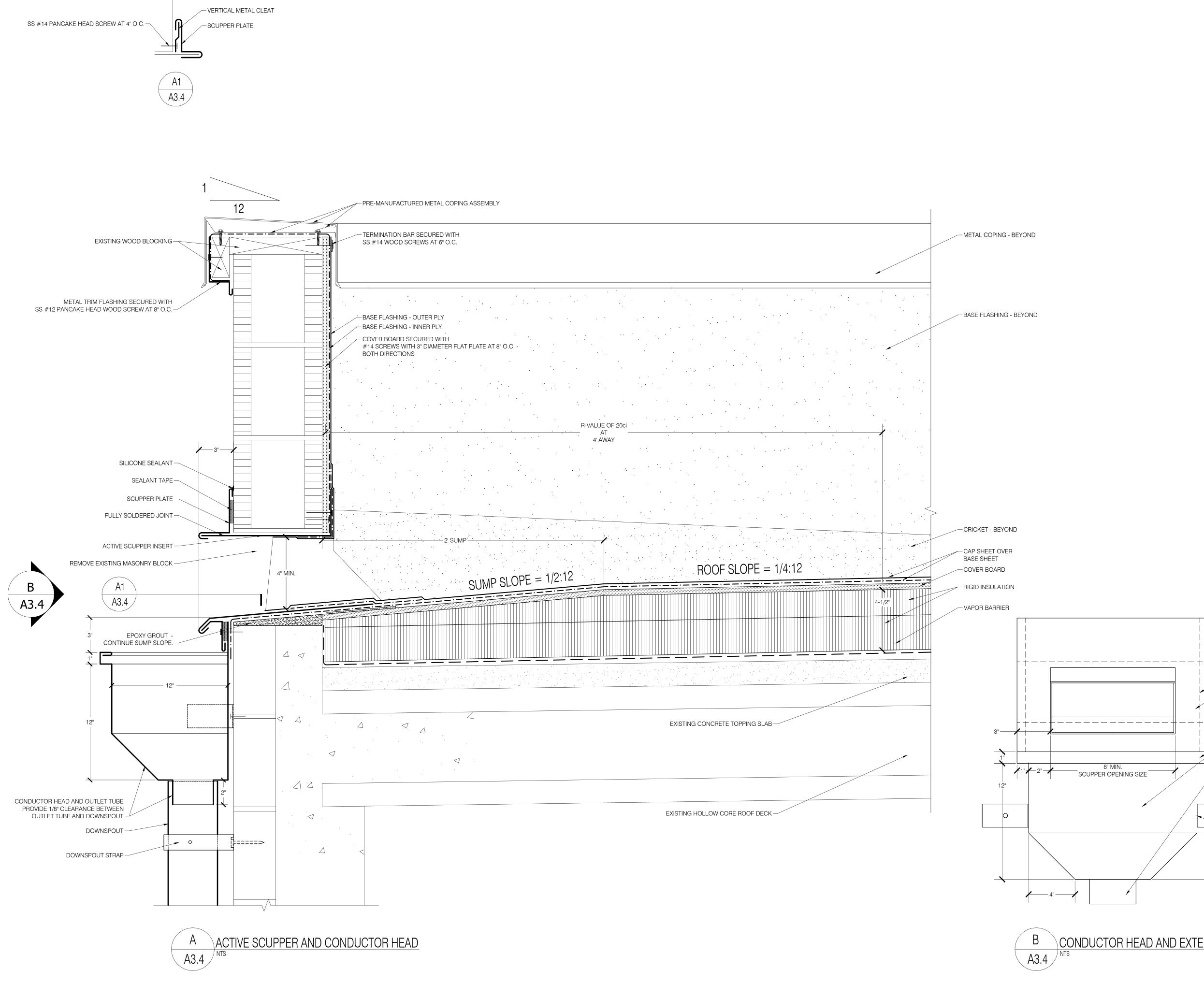
NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

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.

ORANGE COUNTY GOVERNMENT SWRF INFLUENT PUMP STATION AND SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA ROOF REPLACEMENT PROJECT
AND SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA ROOF REPLACEMENT PROJECT
SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA ROOF REPLACEMENT PROJECT
.
(407) 333-1977 FAX: (407) 333-4686 KANING A ANOT IT LCT, INC. 3246 LAKEVIEW OAKS DRIVE LONGWOOD, FLORIDA 32779 (407) 333-1977 FAX: (407) 333-4686 KANIL: JAY@JAYAMMON.CO
REVISIONS
NUMBER TYPE DATE:
DRAWN BY: JSJ PROJECT NUMBER: 18-079 APPROVED BY: JPA DATE: JANUARY 21, 2019
ELECTRICAL BUILDING ROOF DETAILS Δ 2 2



MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 **COVER BOARD:** 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C

1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG. **RIGID INSULATION:** POLYISOCYANURATE INSULATION, ASTM C

1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA. **BASE SHEET:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY A.R.B.S.

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH

GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION

SECTION 07600 BENT METAL PLATE: 16 GAGE, GALVANIZED G90.

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE

316 METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316. METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE

METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316. **PRE-MANUFACTURED METAL COPING:** 22 GAGE STAINLESS

STEEL, TYPE 316. **TERMINATION BAR:** 1/8" THICK X 1" WIDE STAINLESS STEEL.

GUTTER AND DOWNSPOUTS SPECIFICATION

SECTION 07631 ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. CONDUCTOR HEAD STRAP: 16 GAGE STAINLESS STEEL, TYPE

316. **DOWNSPOUT:** SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL DOWNSPOUT STRAPS: .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM. **GUTTER STRAPS:** .050" PRE-PAINTED ALUMINUM. OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

SCUPPER PLATE: 22 GAGE STAINLESS STEEL, TYPE 316. **SKYLIGHT GUTTER:** 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

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.

- VERTICAL CLEAT - TOP FLANGE OF EXTERIOR SCUPPER FACE

- ALL WELDED STAINLESS STEEL CONDUCTOR HEAD AND OUTLET TUBE

- 4"X4"X2" X 16 GAGE STAINLESS STEEL CONDUCTOR HEAD STRAP SOLDERED TO CONDUCTOR HEAD

- 3/8" SS TAPCON WITH

SS HIGH-DOMED CAPPED EPDM WASHER

SWRF INFLUENT PUMP STATION
AND
SOUTH PLANT ELECTRICAL BUILDIN
ORLANDO, FLORIDA

CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT

ROOF REPLACEMENT PROJECT

43 H

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE · LONGWOOD, FLORIDA 32779 (407) 333-1977 SAX: (407) 333-4686 SAX: JAY@JAYAMMON.COM

REVISIONS DATE: NUMBER TYPE

DRAWN BY: _____JSJ

APPROVED BY: JPA

ELECTRICAL BUILDING -ROOF DETAILS

PROJECT NUMBER: 18-079

DATE: JANUARY 21, 2019

A3.4

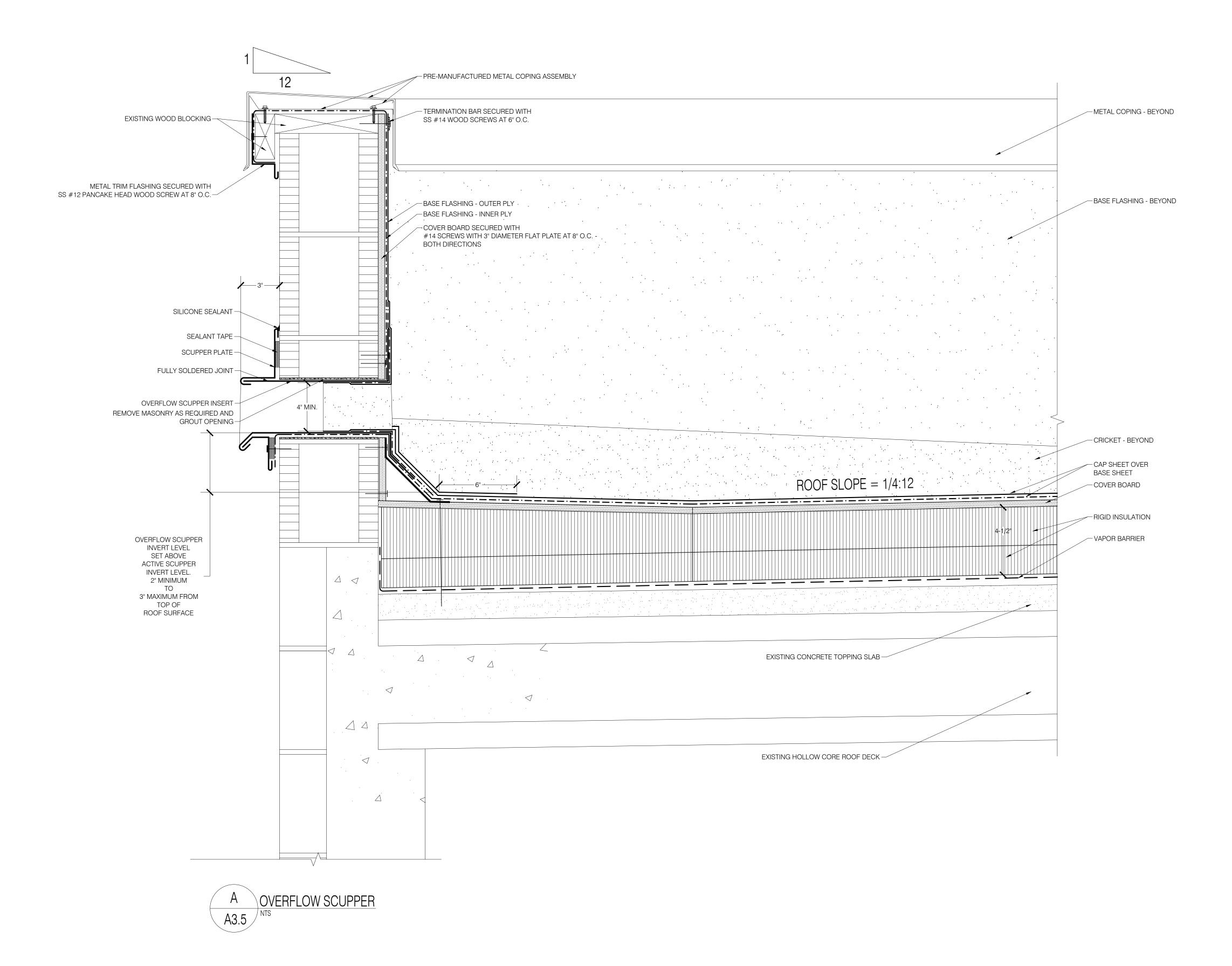
CONDUCTOR HEAD AND EXTERIOR SCUPPER PLATE ELEVATION

-

8" MIN.

PLOT: 3" = 1'-0"

SHEE



MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220

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

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED
MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER
MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR
GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.
BASE SHEET: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164,
TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF
DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.
CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY
A.R.B.S.

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH

GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. **VAPOR BARRIER:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION

SECTION 07600 BENT METAL PLATE: 16 GAGE, GALVANIZED G90.

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 316. **METAL COUNTERFLASHING:** 22 GAGE STAINLESS STEEL, TYPE

316. METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316.

METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316. METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316.

PRE-MANUFACTURED METAL COPING: 22 GAGE STAINLESS STEEL, TYPE 316. **TERMINATION BAR:** 1/8" THICK X 1" WIDE STAINLESS STEEL.

GUTTER AND DOWNSPOUTS SPECIFICATION SECTION 07631

ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. CONDUCTOR HEAD STRAP: 16 GAGE STAINLESS STEEL, TYPE

316. DOWNSPOUT: SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL. **DOWNSPOUT STRAPS:** .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM. GUTTER STRAPS: .050" PRE-PAINTED ALUMINUM. OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

STO. SCUPPER PLATE: 22 GAGE STAINLESS STEEL, TYPE 316. SKYLIGHT GUTTER: 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 **PLUMBING VENT FLASHING EXTENSION:** PRE-FABRICATED PVC EXTENSIONS.

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,

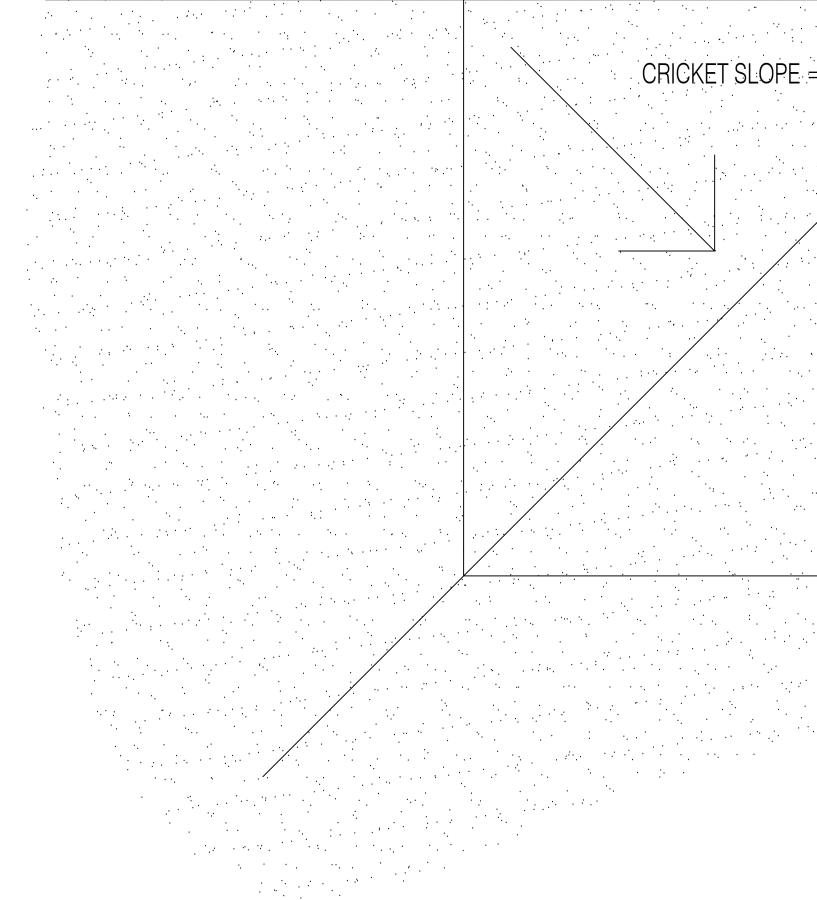
NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE. STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE

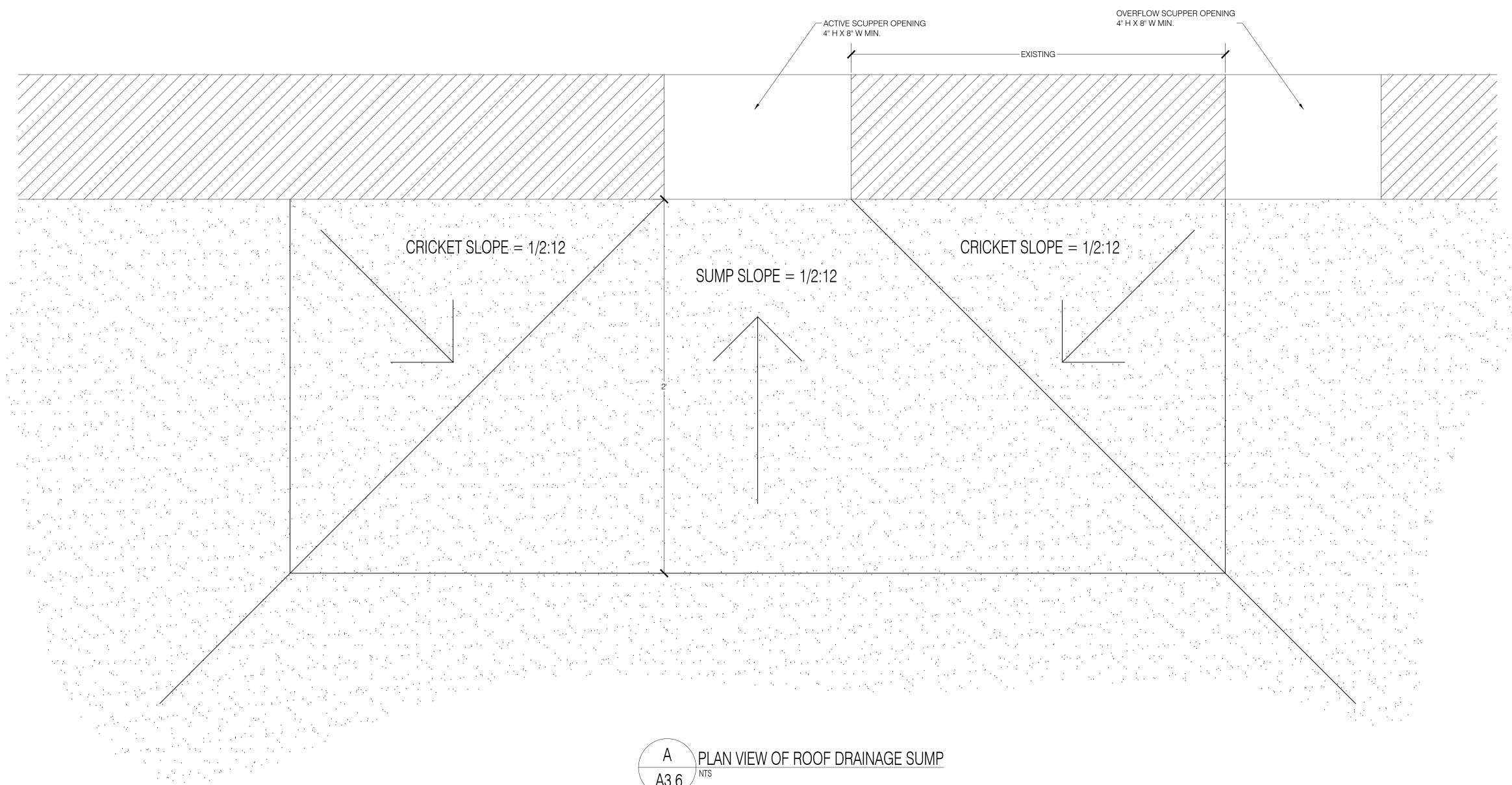
CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS. URETHANE SEALANT: SINGLE-COMPONENT, NONSAG,

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

CONSTRU	ICTION DOCUMENTS
ORANGE (COUNTY GOVERNMENT
SWRF INFL	UENT PUMP STATION
	AND T ELECTRICAL BUILDING DRLANDO, FLORIDA
ROOF REP	LACEMENT PROJECT
	MON ARCHITECT, INC. DRIVE • LONGWOOD, FLORIDA 32779 333-4686 • E MAIL: JAY@JAYAMMON.COM
	REVISIONS
NUMBER TYPE	REVISIONS DATE:
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MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"

MANUFACTURED BY USG. **RIGID INSULATION:** POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 07551

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA. **BASE SHEET:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY ARRS

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN. ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN. ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION SECTION 07600

BENT METAL PLATE: 16 GAGE, GALVANIZED G90. **METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 316.**

METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316.

METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316.

PRE-MANUFACTURED METAL COPING: 22 GAGE STAINLESS STEEL TYPE 316

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

GUTTER AND DOWNSPOUTS SPECIFICATION SECTION 07631

ACTIVE SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE 316. CONDUCTOR HEAD AND OUTLET TUBE: 22 GAGE STAINLESS STEEL, TYPE 316, ALL WELDED. **CONDUCTOR HEAD STRAP:** 16 GAGE STAINLESS STEEL, TYPE

DOWNSPOUT: SCHEDULE 40 PVC DOWNSPOUT PAINTED TO

MATCH WALL **DOWNSPOUT STRAPS:** .063" THICK X 1" WIDE PRE-PAINTED ALUMINUM.

GUTTER: .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

GUTTER BRACKET: 3/16" X 1" PRE-PAINTED ALUMINUM. **GUTTER STRAPS: .050" PRE-PAINTED ALUMINUM.** OVERFLOW SCUPPER INSERT: 22 GAGE STAINLESS STEEL, TYPE

316. **SCUPPER PLATE:** 22 GAGE STAINLESS STEEL, TYPE 316. **SKYLIGHT GUTTER:** 22 GAGE STAINLESS STEEL, TYPE 316 WALL EXPANSION JOINT COVER: 22 GAGE STAINLESS STEEL, TYPE 316

ROOF ACCESSORIES SPECIFICATION SECTION 07720 PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

JOINT SEALANTS SPECIFICATION SECTION 07920

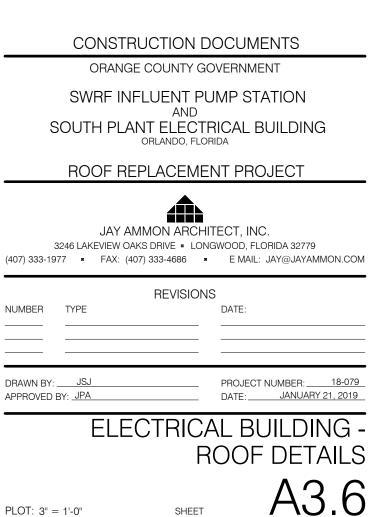
BACKER ROD: CLOSED-CELL BACKER ROD. BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311. SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,

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.



SHEET

PLOT: 3" = 1'-0"

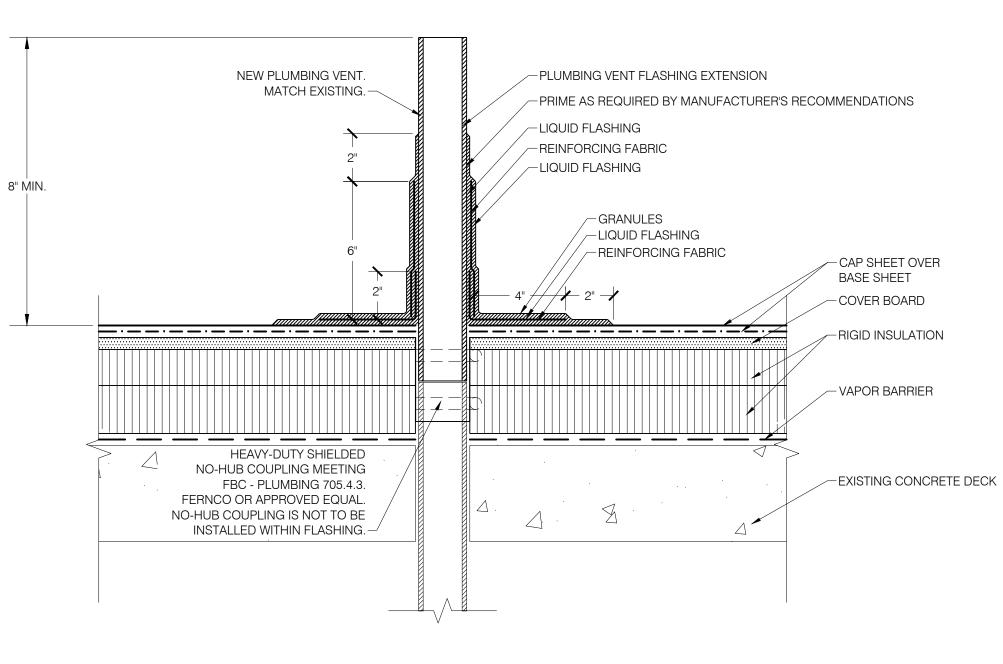
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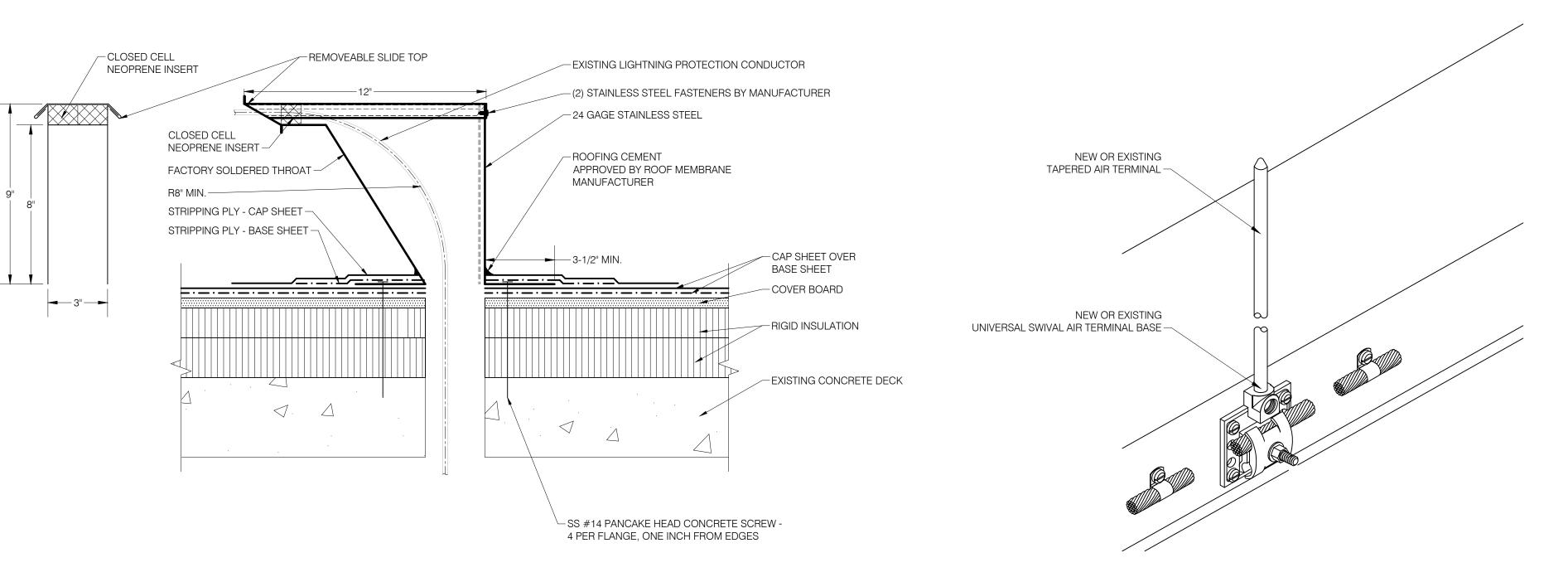
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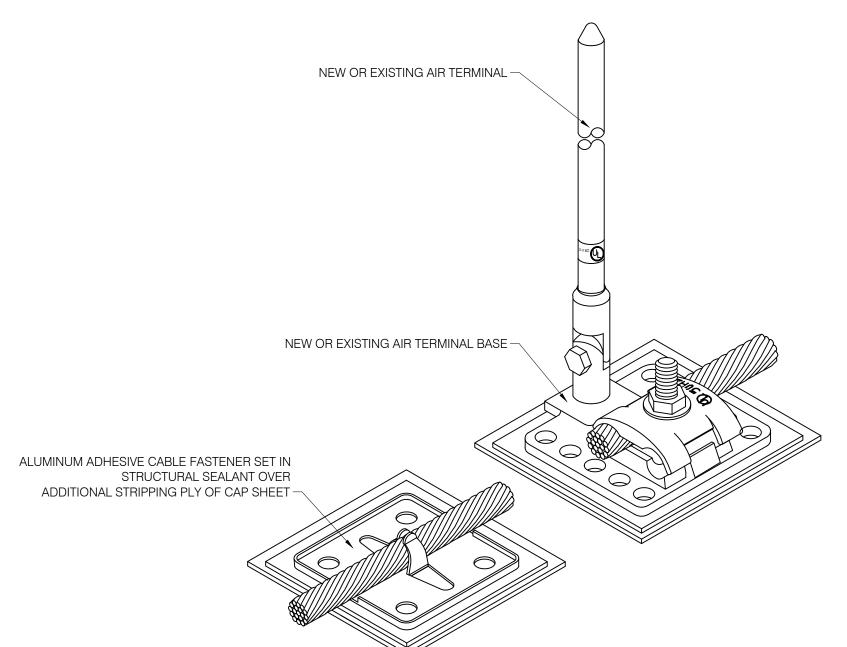


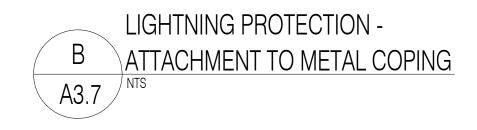


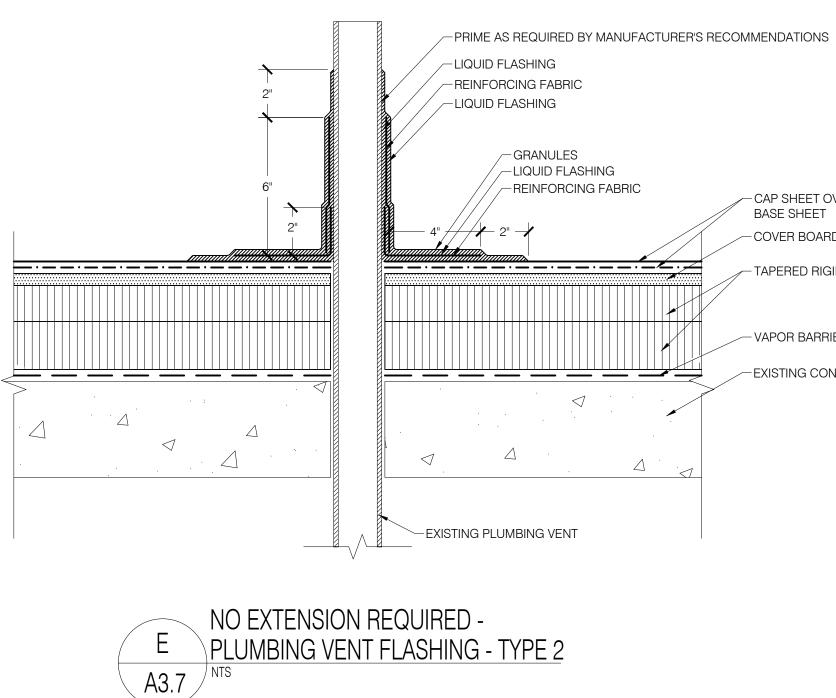




NOTE: LIGHTNING PROTECTION CABLE FLASHING (VERSA LINE ML/S) BY ("SBC INDUSTRIES") OR PRE-APPROVED EQUAL.









LIGHTNING PROTECTION - BASE DETAIL

- CAP SHEET OVER BASE SHEET

- TAPERED RIGID INSULATION

- VAPOR BARRIER

- EXISTING CONCRETE DECK

MATERIAL COMPONENT SCHEDULE

ROOF INSULATION SPECIFICATION SECTION 07220 **COVER BOARD:** 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"

MANUFACTURED BY USG. **RIGID INSULATION:** POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/2 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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MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA. **BASE SHEET:** SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 180" MANUFACTURED BY SOPREMA. CANT STRIP: 16 GA. GALVANIZED STEEL, G90, MANUFACTURED BY A.R.B.S.

CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. BASIS OF DESIGN: "SOPRALENE FLAM 250 FR GR WITH SG GRANULE" MANUFACTURED BY SOPREMA.

LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. VAPOR BARRIER: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "SOPRALENE 180 SP 3.5" MANUFACTURED BY SOPREMA.

FLASHING AND SHEET METAL SPECIFICATION

SECTION 07600 BENT METAL PLATE: 16 GAGE, GALVANIZED G90. **METAL CLEAT:** 22 GAGE STAINLESS STEEL, TYPE 316.

METAL COUNTERFLASHING: 22 GAGE STAINLESS STEEL, TYPE 316

METAL EDGE: - 22 GAGE STAINLESS STEEL, TYPE 316. METAL RECEIVER FLASHING: 22 GAGE STAINLESS STEEL, TYPE

METAL TRIM FLASHING: 22 GAGE STAINLESS STEEL, TYPE 316. **PRE-MANUFACTURED METAL COPING:** 22 GAGE STAINLESS STEEL, TYPE 316.

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

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ROOF ACCESSORIES SPECIFICATION SECTION 07720 PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

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 SWRF INFLUENT PUMP STATION AND SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA ROOF REPLACEMENT PROJECT JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE . LONGWOOD, FLORIDA 32779 (407) 333-1977 · FAX: (407) 333-4686 · EMAIL: JAY@JAYAMMON.COM REVISIONS NUMBER TYPE DATE:

> > ELECTRICAL BUILDING -

ROOF DETAILS

PLOT: 3" = 1'-0"

SHEET

A3.7

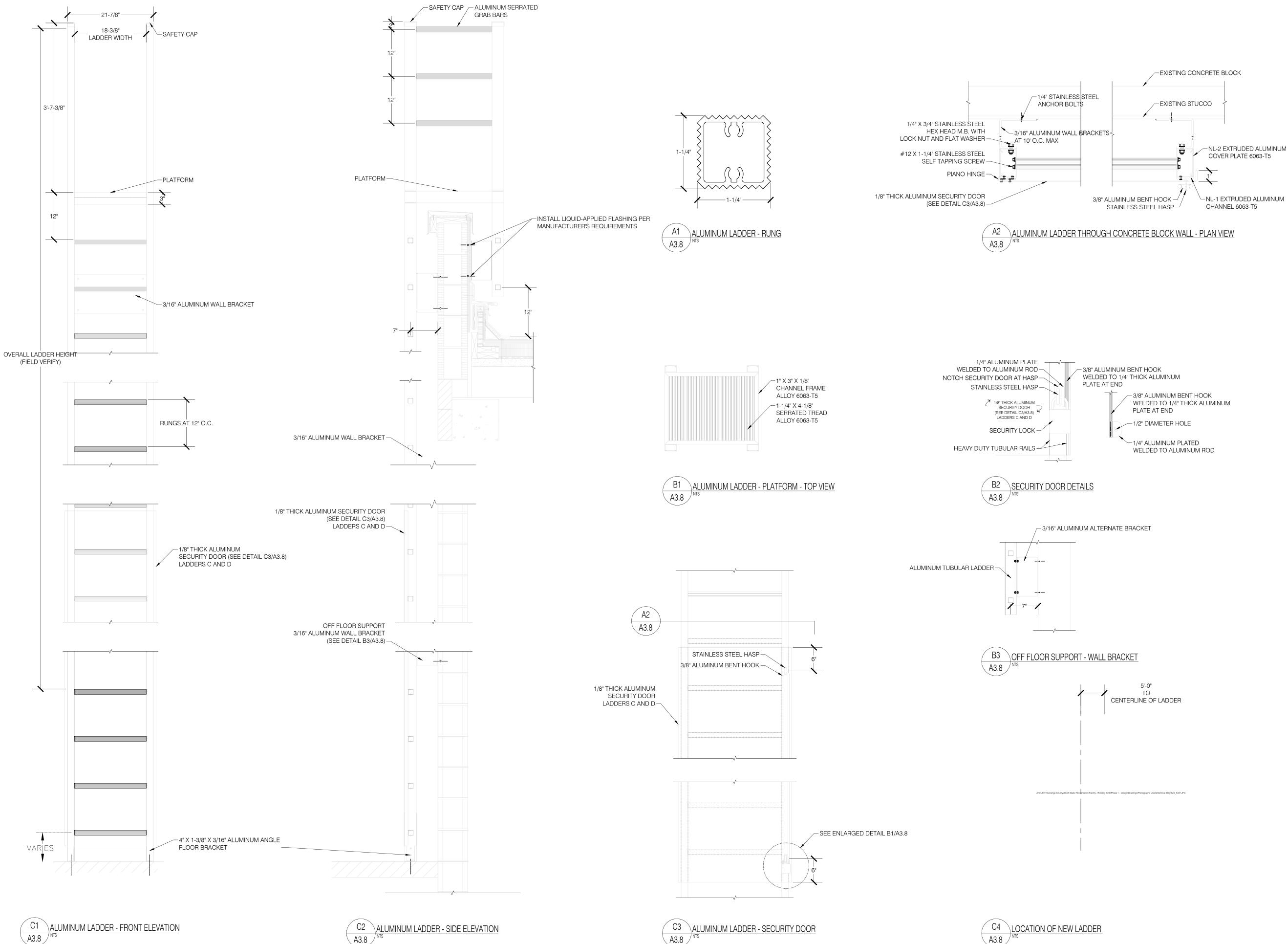
PROJECT NUMBER: 18-079

DATE: JANUARY 21, 2019

DRAWN BY: _____JSJ APPROVED BY: JPA

-COVER BOARD

NOTES: 1. INSTALL MILLER SAF-T-CLIMB LADDER SYSTEM IN ALUMINUM MANUFACTURED BY HONEYWELL 2. INSTALL SAF-T-PIVOT PERMANENT DISMOUNT IN ALUMINUM.







PART 1 GENERAL 1.1 SECTION INCLUDES

- A. ALUMINUM ACCESS LADDERS.
 1.2 RELATED SECTIONS A. SECTION 05500 METAL FABRICATIONS: FASTENERS AND INSTALLATION REQUIREMENTS USED TO
- ATTACH LADDERS TO STRUCTURE. 1.3 REFERENCES
- A. AA ALUMINUM ASSOCIATION. B. ASTM B 209 - STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY SHEET AND PLATE.C. ASTM B 221 - STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY EXTRUDED BARS, RODS, WIRE, PROFILES, AND TUBES.
- D. OSHA 1910.27 FIXED LADDERS 1.4 SUBMITTALS
- A. SUBMIT UNDER PROVISIONS OF SECTION 013000. B. PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT.
- C. SHOP DRAWINGS: 1.DETAIL FABRICATION AND ERECTION OF EACH LADDER INDICATED. INCLUDE PLANS, ELEVATIONS, SECTIONS, AND DETAILS OF METAL FABRICATIONS AND THEIR CONNECTIONS. 2. PROVIDE TEMPLATES FOR ANCHORS AND BOLTS SPECIFIED FOR INSTALLATION UNDER OTHER SECTIONS.
 PROVIDE REACTION LOADS FOR EACH HANGER AND BRACKET.
- D. QUALIFICATION DATA: 1.REFER TO QUALITY ASSURANCE PROVISIONS FOR SUBMITTAL REQUIREMENTS EVIDENCING
- EXPERIENCE, CERTIFICATIONS AND RESOURCES.
- E. SELECTION SAMPLES: FOR EACH FINISH SPECIFIED, TWO COMPLETE SETS OF COLOR CHIPS REPRESENTING MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS. F. VERIFICATION SAMPLES: FOR EACH FINISH SPECIFIED, TWO SAMPLES, MINIMUM SIZE 6 INCHES (150
- MM) SQUARE, REPRESENT ACTUAL PRODUCT COLOR. MM) SQUARE, REPRESENT ACTUAL PRODUCT COLOR.
 1.5 QUALITY ASSURANCE
 A. MANUFACTURER QUALIFICATIONS: A FIRM EXPERIENCED IN PRODUCING ALUMINUM METAL LADDERS SIMILAR TO THOSE INDICATED FOR THIS PROJECT.
 1.RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
- 2. SUFFICIENT PRODUCTION CAPACITY TO PRODUCE REQUIRED UNITS. 3. PROFESSIONAL ENGINEERING COMPETENT IN DESIGN AND STRUCTURAL ANALYSIS TO FABRICATE LADDERS IN COMPLIANCE WITH INDUSTRY STANDARDS AND LOCAL CODES.
- B. INSTALLER QUALIFICATIONS: COMPETENT AND EXPERIENCED FIRM CAPABLE OF SELECTING FASTENERS AND INSTALLING LADDERS TO ATTAIN DESIGNED OPERATIONAL AND STRUCTURAL PERFORMANCE.
- C. PRODUCT QUALIFICATION: PRODUCT DESIGN SHALL COMPLY WITH OSHA 1910.27 MINIMUM STANDARDS FOR LADDERS. D. MOCK-UP: PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND APPI ICATION WORKMANSHIP
- 1.INSTALL LADDER IN AREA DESIGNATED BY ARCHITECT. 2. DO NOT PROCEED WITH REMAINING WORK UNTIL WORKMANSHIP AND INSTALLATION ARE APPROVED BY ARCHITECT.
- REWORK MOCK-UP AS REQUIRED TO PRODUCE ACCEPTABLE WORK. 1.6 DELIVERY, STORAGE, AND HANDLING A. STORE PRODUCTS IN MANUFACTURER'S UNOPENED PACKAGING UNTIL READY FOR INSTALLATION.
- 1.7 PROJECT CONDITIONS A. FIELD MEASUREMENTS: VERIFY DIMENSIONS BY FIELD MEASUREMENT BEFORE FABRICATION. 1.ESTABLISHED DIMENSIONS: WHERE FIELD MEASUREMENTS CANNOT BE MADE WITHOUT DELAYING THE WORK, INDICATE ESTABLISHED DIMENSIONS ON SHOP DRAWING SUBMITTAL AND PROCEED WITH FABRICATION. 1.8 WARRANTY
- A. MANUFACTURER HAS RESPONSIBILITY FOR AN EXTENDED CORRECTIVE PERIOD FOR WORK OF THIS SECTION FOR A PERIOD OF 5 YEARS FROM DATE OF SUBSTANTIAL COMPLETION AGAINST ALL THE CONDITIONS INDICATED BELOW, AND WHEN NOTIFIED IN WRITING FROM OWNER, MANUFACTURER SHALL PROMPTLY AND WITHOUT INCONVENIENCE AND COST TO OWNER CORRECT SAID DEFICIENCIES. 1.DEFECTS IN MATERIALS AND WORKMANSHIP. DETERIORATION OF MATERIAL AND SURFACE PERFORMANCE BELOW MINIMUM OSHA STANDARDS AS CERTIFIED BY INDEPENDENT THIRD PARTY TESTING LABORATORY. ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLECT EXCEPTED.
- WITHIN THE WARRANTY PERIOD, THE MANUFACTURER SHALL, AT ITS OPTION, REPAIR, REPLACE, OR REFUND THE PURCHASE PRICE OF DEFECTIVE LADDER.
 MANUFACTURER SHALL BE NOTIFIED IMMEDIATELY OF DEFECTIVE PRODUCTS, AND BE GIVEN A REASONABLE OPPORTUNITY TO INSPECT THE GOODS PRIOR TO RETURN. MANUFACTURER WILL NOT ASSUME RESPONSIBILITY, OR COMPENSATION, FOR UNAUTHORIZED REPAIRS OR LABOR.
- MANUFACTURER MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, TO THE MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, DESIGN, SALE, INSTALLATION, OR USE, OF THE LADDER; AND SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSSES OF OR EXPENSES, RESULTING FROM THE USE OF LADDER PRODUCTS. A. FURNISH TOUCHUP KIT FOR EACH TYPE AND COLOR OF PAINT FINISH PROVIDED.

PART 2 PRODUCTS 2.1 MANUFACTURERS

- A. BASIS OF DESIGN: O'KEEFFE'S, INC.; 325 NEWHALL ST. SAN FRANCISCO, CA 94124. ASD. TOLL FREE TEL: (888) 653-3333. TEL: (415) 824-4900. FAX: (415) 824-5900. EMAIL: INFO@OKEEFFES.COM. WEB:
- B. SUBJECT TO COMPLIANCE, OTHER MANUFACTURER'S TO BE CONSIDERED: ALACO LADDER, INC. AND UPNOVR, INC.
- C. REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH PROVISIONS OF GENERAL CONDITIONS. 2.2 APPLICATIONS/SCOPE
- A. FIXED ACCESS LADDER: 1.TUBULAR RAIL LOW PARAPET ACCESS LADDER WITH PLATFORM AND RETURN. A. MODEL 503 AS MANUFACTURED BY O'KEEFFE'S INC.
- 2.3 FINISHES A. MILL FINISH. AS EXTRUDED
- B. CLEAR ANODIC FINISH: AA-M10C22A41 MECHANICAL FINISH AS FABRICATED. ARCHITECTURAL CLASS I, CLEAR COATING 0.018 MM OR THICKER.
 C. PAINT. URETHANE OVER CHEMICALLY PRETREATED SUBSTRATE. 1.FIRE RED (RAL 2002). 2. ALERT ORANGE (RAL 2003).
- WARNING BLUE (RAL 5005) CAUTION YELLOW (RAL 1018
- SAFETY GREEN (RAL 6001). AS SCHEDULED ON DRAWING
- 2.4 MATERIALS A. ALUMINUM SHEET: ALLOY 5005-H34 TO COMPLY WITH ASTM B209.
- B. ALUMINUM EXTRUSIONS: ALLOY 6063-T6 TO COMPLY WITH ASTM B221. 2.5 FABRICATION A. RUNGS: NOT LESS THAN 1-1/4 INCHES (32 MM) IN SECTION
- AND 18–3/8 INCHES (467MM) LONG, FORMED FROM TUBULAR ALUMINUM EXTRUSIONS. SQUARED AND DEEPLY SERRATED ON ALL SIDES. 1.RUNGS SHALL WITHSTAND A 1,500 POUND (454 KG) LOAD WITHOUT DEFORMATION OR FAILURE.
- B. CHANNEL SIDE RAILS: NOT LESS THAN 1/8 INCH (3 MM) WALL THICKNESS BY 3 INCHES (76 MM) WIDE. C. HEAVY DUTY TUBULAR SIDE RAILS: ASSEMBLED FROM TWO INTERLOCKING ALUMINUM EXTRUSIONS NO LESS THAN 1/8 INCH (3 MM) WALL THICKNESS BY 3 INCHES (76 MM) WIDE. CONSTRUCTION SHALL BE SELF-LOCKING STAINLESS STEEL FASTENERS, FULL PENETRATION TIG WELDS AND CLEAN, SMOOTH
- AND BURR-FREE SURFACES. D. WALK-THROUGH RAIL AND ROOF RAIL EXTENSION: NOT LESS THAN 3 FEET 6 INCHES (1067 MM) ABOVE THE LANDING AND SHALL BE FITTED WITH DEEPLY SERRATED, SQUARE, TUBULAR GRAB
- RAII S E. LANDING PLATFORM: 1-1/2 INCHES (38 MM) OR GREATER DIAMETER, TUBULAR ALUMINUM GUARDRAILS
- AND IDECKS OF SERRATED ALUMINUM TREADS.
 F. SECURITY DOORS: FORMED 1/8 INCH (3 MM) THICK ALUMINUM SHEET. SECURITY PANELS SHALL EXTEND ON BOTH SIDES, PERPENDICULAR TO THE DOOR FACE, TO WITHIN 2 INCHES (51 MM) OF THE WALL. SECURITY DOOR SHALL BE FURNISHED WITH CONTINUOUS ALUMINUM PIANO HINGE AND HEAVY DUTY FORGED STEEL LOCKING HASPS.

PART 3 EXECUTION 3.1 EXAMINATION

- A. COORDINATE ANCHORAGES. FURNISH SETTING DRAWINGS, TEMPLATES, AND ANCHORAGE STRUCTURAL LOADS FOR FASTENER RESISTANCE.
- B. DO NOT BEGIN INSTALLATION UNTIL SUPPORTING STRUCTURE IS COMPLETE AND LADDER INSTALLATION WILL NOT INTERFERE WITH SUPPORTING STRUCTURE WORK. C. IF SUPPORTING STRUCTURE IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF
- UNSATISFACTORY SUPPORTING WORK BEFORE PROCEEDING.
- A. INSTALLATION A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND IN PROPER RELATIONSHIP WITH ADJACENT CONSTRUCTION. 3.3 **PROTECTION**
- A. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT.
- B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE SUBSTANTIAL COMPLETION.

END OF SECTION

CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SWRF INFLUENT PUMP STATION AND SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA ROOF REPLACEMENT PROJECT JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE · LONGWOOD, FLORIDA 32779 (407) 333-1977 · FAX: (407) 333-4686 · EMAIL: JAY@JAYAMMON.COM REVISIONS DATE: NUMBER TYPE DRAWN BY: JSJ PROJECT NUMBER: 18-079 APPROVED BY: JPA DATE: _____ JANUARY 21, 2019 ELECTRICAL BUILDING -LADDER DETAILS A3.8

PLOT: 3" = 1'-0"

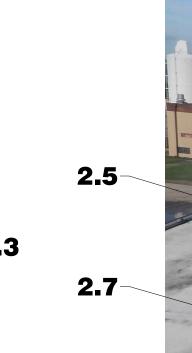
SHEET

EXISTING ROOF AREA



EXISTING ACTIVE SCUPPER

EXISTING EXHAUST FAN







EXISTING SKYLIGHTS

INFLUENT PUMP STATION -PHOTOGRAPHS

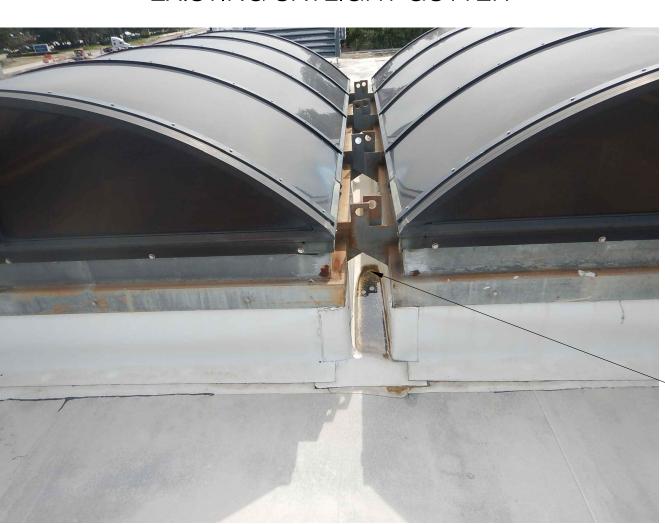
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A4.0





EXISTING SKYLIGHT GUTTER





-**B/A2.4**

SCOPE OF WORK

THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1.0 GENERAL: 1.1 ENGINEERING: CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE ATTACHMENT SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE

- ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES. 1.2 SUBSTRATE PREPARATION: PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY.
- 1.3 WARRANTY: THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURER'S OF THE ROOFING ASSEMBLY AND SHALL RECEIVE A 20 YEAR NDL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NDL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.
- 1.4 SUBSTRATE PREPARATION: REPLACE ALL DETERIORATED SUBSTRATE MATERIAL TO A CONDITION REQUIRED BY THE ROOF MEMBRANE MANUFACTURER. PREPARE ALL EXISTING SURFACES TO WHICH NEW OR REINSTALLED COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY THE MANUFACTURER OF EACH NEW COMPONENT. REPLACE OR REPAIR ALL DAMAGED SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOF MEMBRANE, SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING MEMBRANE THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE PROPOSED ROOF ASSEMBLY.

2.0 ROOFING ASSEMBLY - PUMP STATION:

- 2.1 DEMOLITION: REMOVE EXISTING ROOF MEMBRANE AND LIGHTWEIGHT INSULATING CONCRETE FROM TOP SURFACE OF EXISTING CONCRETE DECK. REMOVE ALL METAL FLASHINGS INCLUDING BUT NOT LIMITED TO THE RAISED PERIMETER EDGE, COUNTERFLASHINGS, METAL EDGES AND SCUPPERS. REMOVE ALL EXISTING MECHANICAL EQUIPMENT AND EQUIPMENT CURBS. TEMPORARILY REMOVE THE ROOF HATCHES FOR REINSTALLATION.
- 2.2 INSTALLATION OF NEW ROOFING ASSEMBLY: INSTALL NEW MECHANICAL EQUIPMENT CURBS OVER EXISTING OPENINGS PRIME THE EXISTING CONCRETE DECK AND TORCH APPLY A VAPOR BARRIER, COMPOSED OF A MODIFIED BITUMINOUS MEMBRANE, OVER THE CONCRETE DECK. INSTALL FLAT AND TAPERED INSULATION, IN A MINIMUM OF TWO STAGGERED LAYERS, ADHERED WITH URETHANE ADHESIVE OVER THE TEMPORARY ROOF MEMBRANE. INSTALL TAPERED INSULATION AS REQUIRED TO ACHIEVE A MINIMUM SURFACE SLOPE OF 1/4 INCH PER LINEAR FOOT POSITIVE SLOPE TOWARD THE GUTTERS. THE SLOPE PLAN WILL BE A HIP SHAPE. INSTALL A 1/2 INCH COVER BOARD IN URETHANE ADHESIVE OVER THE INSULATION AND UP ALL EQUIPMENT CURBS. TORCH APPLY A SMOOTH MODIFIED BITUMINOUS MEMBRANE BASE SHEET OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP SHEET OVER THE BASE SHEET. AT ALL BASE FLASHINGS, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING OUTER PLY OVER THE COVER
- BOARDS AT THE ADJACENT VERTICAL SURFACES AT CURBS. 2.3 INSTALLATION OF NEW METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. NEW FLASHINGS INCLUDE BUT
- ARE NOT LIMITED TO METAL EDGES SKIRT FLASHINGS AND GUTTERS. 2.4 INSTALLATION OF NEW DOWNSPOUTS: FABRICATE AND INSTALL NEW PVC DOWNSPOUTS SECURED WITH STAINLESS STEEL STRAPS. PAINT DOWNSPOUTS TO MATCH COLOR OF EXISTING WALLS.
- 2.5 EXISTING ROOF MOUNTED MECHANICAL EQUIPMENT: INSTALL NEW ROOF MOUNTED MECHANICAL EQUIPMENT OVER THE NEW EQUIPMENT CURBS. INSTALL HOLD DOWN STRAPS TO PREVENT WIND DISPLACEMENT. SEE MECHANCIAL.
- 2.6 EXISTING ROOF HATCH: REINSTALL THE EXISTING ROOF HATCHES OVER THE EXISTING CURBS. INSTALL A LADDER EXTENSION AND A PERIMETER SAFETY RAIL WITH GATE AT THE ONE ACCESSIBLE ROOF HATCH.
- 2.7 EXISTING ELECTRICAL CONNECTIONS TO ROOF MOUNTED EQUIPMENT: RELOCATE ALL DISCONNECT SWITCHES, CONVENIENCE OUTLETS, AND EXISTING SUPPORTS TO A MINIMUM OF 24 INCHES AWAY FROM THE EQUIPMENT TO WHICH IT SERVES. ALSO, RELOCATE THE CONDUITS OF ALL ROOF MOUNTED ELECTRICAL EQUIPMENT TO THE INTERIOR OF THE EQUIPMENT. A RECEPTACLE OUTLET SHALL BE PROVIDED FOR ALL EQUIPMENT REQUIRING SERVICE IN A LOCATION IN ACCORDANCE WITH NFPA TO REROUTE.
- **2.8 GUARD RAILS:** WHERE DESIGNATED, INSTALL A 42 INCH HIGH GUARDRAIL BETWEEN ROOF MOUNTED EQUIPMENT AND THE METAL EDGE. EXTEND THE GUARDRAIL A MINIMUM OF 30 INCHES BEYOND EACH END OF THE EQUIPMENT. 3.0 ROOFING ASSEMBLY - ELECTRIC BUILDING: SEE SHEET A4.1.

	ORANGE COL	JNTY GOV	/ERNMENT	
	SWRF INFLUE		MP STATION	
S	OUTH PLANT E	AND ELECTR NDO, FLORIE		à
	ROOF REPLA	CEMEN	IT PROJECT	
32 07) 333-197	JAY AMMON 246 LAKEVIEW OAKS DRI' 7 • FAX: (407) 333-	VE LONG	WOOD, FLORIDA 32779	MON.COM
JMBER	RE TYPE	EVISIONS	DATE:	
				18-079

CONSTRUCTION DOCUMENTS

INFLUENT PUMP STATION -

DATE:

JANUARY 21, 2019

PHOTOGRAPHS A4.0 PLOT: N.T.S. SHEET

APPROVED BY: JPA

EXISTING ROOF AREA



PHOTOGRAPH 1 A4.1

EXISTING LIGHTNING PROTECTION

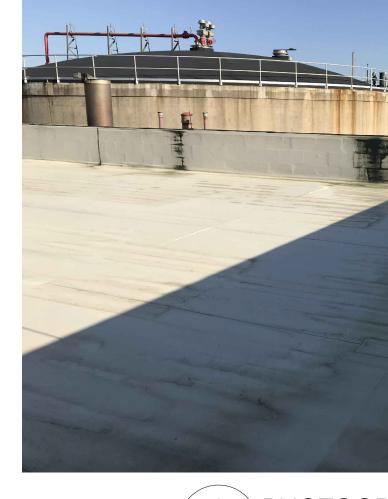


4 PHOTOGRAPH 4 A4.1

EXISTING LIGHTNING PROTECTION

EXISTING ROOF AREA





A4.1/

3.3-

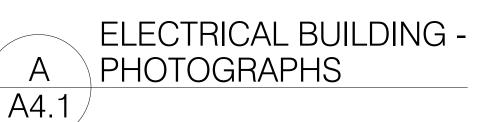


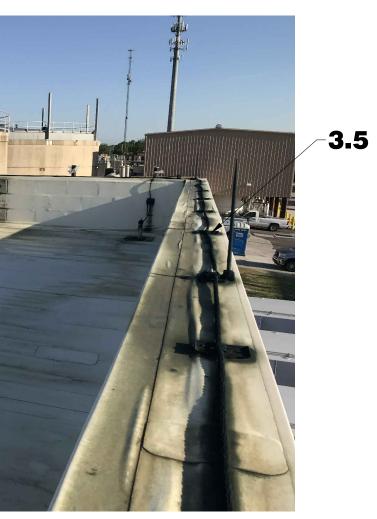
EXISTING ACTIVE SCUPPER / DOWNSPOUT





6 PHOTOGRAPH 6 A4.1





3 PHOTOGRAPH 3

EXISTING ACTIVE SCUPPER / DOWNSPOUT

SCOPE OF WORK

THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1.0 GENERAL:1.1 ENGINEERING: CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE ATTACHMENT SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.

- 1.2 SUBSTRATE PREPARATION: PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY. **1.3 WARRANTY:** THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURER'S OF THE ROOFING
- ASSEMBLY AND SHALL RECEIVE A 20 YEAR NDL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NDL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.
- 1.4 SUBSTRATE PREPARATION: REPLACE ALL DETERIORATED SUBSTRATE MATERIAL TO A CONDITION REQUIRED BY THE ROOF MEMBRANE MANUFACTURER. PREPARE ALL EXISTING SURFACES TO WHICH NEW OR REINSTALLED COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY THE MANUFACTURER OF EACH NEW COMPONENT. REPLACE OR REPAIR ALL DAMAGED SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOF MEMBRANE, SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING MEMBRANE THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE PROPOSED ROOF ASSEMBLY.

2.0 ROOFING ASSEMBLY · PUMP STATION: SEE SHEET A4.0.

- 3.0 ROOFING ASSEMBLY ELECTRIC BUILDING: 3.1 DEMOLITION: REMOVE EXISTING ROOF MEMBRANE AND INSULATION FROM TOP SURFACE OF EXISTING CONCRETE TOPPING SLAB. REMOVE ALL METAL FLASHINGS INCLUDING BUT NOT LIMITED TO THE COPINGS, COUNTERFLASHINGS, AND SCUPPERS. REMOVE DESIGNATED WALL SURFACES FOR INSTALLATION OF NEW EMERGENCY OVERFLOW SCUPPERS.
- 3.2 INSTALLATION OF NEW ROOFING ASSEMBLY: PRIME THE EXISTING CONCRETE TOPPING SLAB AND TORCH APPLY A VAPOR BARRIER, COMPOSED OF A MODIFIED BITUMINOUS MEMBRANE, OVER THE CONCRETE TOPPING SLAB. INSTALL FLAT INSULATION OVER THE STRUCTURALLY SLOPED EXISTING ROOF DECK AND TAPERED INSULATION AT THE CRICKETS, IN A MINIMUM OF TWO STAGGERED LAYERS, ADHERED WITH URETHANE ADHESIVE OVER THE TEMPORARY ROOF MEMBRANE. INSTALL TAPERED INSULATION CRICKETS AS REQUIRED TO ACHIEVE A MINIMUM SURFACE SLOPE OF 1/4 INCH PER LINEAR FOOT POSITIVE SLOPE TOWARD THE SCUPPERS. INSTALL A 1/2 INCH COVER BOARD IN URETHANE ADHESIVE OVER THE INSULATION AND UP ALL ADJACENT WALL SURFACES. TORCH APPLY A SMOOTH MODIFIED BITUMINOUS MEMBRANE BASE SHEET OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP SHEET OVER THE BASE SHEET. AT ALL BASE FLASHINGS, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING OUTER PLY OVER THE COVER BOARDS AT THE ADJACENT VERTICAL WALLS.
- 3.3 INSTALLATION OF NEW METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. NEW FLASHINGS INCLUDE BUT ARE NOT LIMITED TO COPINGS, SCUPPERS, AND LIGHTING PROTECTION ROOF PENETRATIONS.
- 3.4 INSTALLATION OF NEW DOWNSPOUTS: FABRICATE AND INSTALL NEW PVC DOWNSPOUTS SECURED WITH STAINLESS STEEL STRAPS. PAINT DOWNSPOUTS TO MATCH COLOR OF EXISTING WALLS.
- **3.5 LIGHTNING PROTECTION:** REMOVE ALL LIGHTNING PROTECTION ASSEMBLY COMPONENTS ATTACHED TO THE ROOFING ASSEMBLY, INCLUDING BUT NOT LIMITED TO, AIR TERMINALS, CONDUCTOR CABLES, ATTACHMENT COMPONENTS, AND RELATED FASTENERS. REPLACE ALL EXISTING LIGHTNING PROTECTION WITH NEW COMPONENTS THAT WILL BE COMPATIBLE WITH THE NEW ROOFING ASSEMBLY. WHERE EXISTING LIGHTNING PROTECTION DOES NOT EXIST, INSTALL A NEW LIGHTNING PROTECTION ASSEMBLY. TIE-IN THE NEW LIGHTNING PROTECTION ASSEMBLY COMPONENTS WITH THE EXISTING LIGHTNING PROTECTION GROUNDING COMPONENTS USING BI-METAL CONNECTORS WHERE MATERIAL COMPATIBILITY WILL NOT AFFECT THE NEW ROOFING ASSEMBLY. INSTALL ALL LIGHTNING PROTECTION ASSEMBLIES AND COMPONENTS BY A QUALIFIED, LICENSED LIGHTNING PROTECTION INSTALLER WITH A MINIMUM OF 5 YEARS EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS IN ACCORDANCE WITH NFPA-780 AND ALL APPLICABLE BUILDING CODES.
- 3.6 ROOF ACCESS LADDER: INSTALL NEW ROOF ACCESS LADDER. SEE SHEET A3.8 FOR SPECIFICATION AND DETAILS

-3.4

CONSTRUCTION	DOCUMENTS
ORANGE COUNTY (GOVERNMENT
SWRF INFLUENT	PUMP STATION
AND SOUTH PLANT ELEC ORLANDO, FL	
ROOF REPLACEM	ENT PROJECT
JAY AMMON ARC 3246 LAKEVIEW OAKS DRIVE • LO (407) 333-1977 • FAX: (407) 333-4686	
REVISIO	NS DATE:
DRAWN BY:JSJ APPROVED BY: _JPA	PROJECT NUMBER:
	AL BUILDING - HOTOGRAPHS
	A4 1

PLOT: N.T.S.

MECHANICAL GENERAL NOTES

- 1. IF THE INTENT OF ARCHITECT/ ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUC BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ENGINEER SHALL MAKE CORRECTION WRITING. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL IN QUESTION.
- THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICAL 3. SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS C THOROUGHLY ACQUAINT THEMSELVES WITH THE MECHANICAL, AND ELECTRICAL PLANS BEFORE SUBMITTING THEIR FINAL BID.
- 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017, FLORIDA MECHANICAL & ELECTRICAL CODES, 2017 AND LATEST N.E.
- 5. THE SIZE AND LOCATION OF EQUIPMENT INSTALLED UNDER DIVISION 23 MECHANICAL SHALL BE COORDINATED WITH OTHER TRADES. CONNEC SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDE FURNISHED.
- 6. DUCTWORK AND PIPING TO MECHANICAL EQUIPMENT SHALL BE INSTALLED IN A MANNER THAT DOES NOT OBSTRUCT EQUIPMENT SERVICE CLEARAN
- INTERRUPTION OF EXISTING SERVICES SHALL BE MINIMAL AND SHALL BE FULLY COORDINATED WITH THE OWNER AND ALL TRADES IN ADVANCE 7. INTERRUPTIONS DURING NON-CRITICAL TIMES. OWNER SHALL BE PROVIDED WITH THREE BUSINESS DAYS NOTICE PRIOR TO INTERCEPTION.
- 8. DISCONNECT SWITCHES REQUIRED FOR THE MECHANICAL EQUIPMENT SHALL BE PROVIDED BY DIVISION 26 ELECTRICAL EXCEPT WHEN INDICATED
- 9. PROVIDE 4" HIGH CONCRETE PADS UNDER ALL FLOOR MOUNTED EQUIPMENT, WITH CHAMFERED EDGES AND 6" EXTENSIONS BEYOND EQUIPM OTHERWISE.
- 10. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIR VIBRATION-FREE, RIGID INSTALLATION. SUPPORT ALL OBJECTS FROM STRUCTURE WITHOUT PENETRATING THE CEILING.
- 11. ALL HVAC EQUIPMENT LOCATION & WEIGHT SHALL BE COORDINATED AND APPROVED BY THE STRUCTURAL ENGINEER, CONTRACTOR AND PURCHASE AND INSTALLATION.
- 12. CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE COORDINATED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED. DRAIN LINES SHALL BE INSULATED AND INSTALLED WITH A 'P' TRAP AT THE UNIT.
- 13. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH LATEST SMACNA, NFPA 90A AND 90B REQUIREMENTS. OFFSETS I AND TRANSITIONS AROUND OBSTRUCTIONS. PROVIDE ALL TRANSITIONS, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS.
- 14. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTS CONNECTING TO EACH FAN, AIR HANDLING UNIT AND FAN COIL UNIT. COORDINATE DIFI REGISTER LOCATIONS WITH EQUIPMENT OF ALL TRADES and VERIFY CEILING FINISHES.
- 15. ALL OPERABLE THERMOSTAT PARTS SHALL BE MOUNTED 48" ABOVE FINISHED FLOOR. ROOM THERMOSTATS DO NOT REQUIRE COVERS. VOLTAGE UNLESS OTHERWISE INDICATED.
- 16. ALL CONTROL WIRING AND HARDWARE TO COMPLETE THE HVAC CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23 MEC CONTRACT DOCUMENTS.
- 17. INSTALLATION OF DUCT SMOKE DETECTORS SHALL BE BY DIVISION 23 AND FURNISHED BY DIVISION 26.
- 18. THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND ENGINEER FOR REVIEW, A TEST AND BALANCE REPORT OF ALL SYSTEMS. THE TESTING ANI BE PERFORMED BY A CERTIFIED TEST AND BALANCE COMPANY. TEST AND BALANCE REPORT SHALL BE COMPLETED BY SUBSTANTIAL COMPLETION
- 19. PROVIDE ALL MANUFACTURER INSTALLATION & MAINTENANCE MANUALS FOR EQUIPMENT INSTALLED FOR ENGINEER REVIEW BEFORE RELEASE TO

	M	ECHANICAL ABBRE	VIATIO	NS		MECHANIC
SUCH MATTERS WILL BE	AAV	AUTOMATIC AIR VENT	НОА	HAND-OFF-AUTOMATIC		
ON OR EXPLANATION IN	AC	AIR CONDITIONING	HP	HORSEPOWER, HEAT PUMP	$\mathbf{\mathfrak{S}}$	POINT OF CONNECTION
	ACU	AIR CONDITIONING UNIT	HVAC	HEATING VENTILATING		
	AD	ACCESS DOOR, AIR DRYER		AND AIR CONDITIONING	\bigcirc	POINT OF DISCONNECTION
ICALLY MENTIONED OR	AFF	ABOVE FINISHED FLOOR	HZ	HERTZ (CYCLES PER SECOND)	•	
S CONTRACTOR SHALL	AFMS	AIR FLOW MEASURING STATION	ID	INSIDE DIAMETER	\bigcirc	THERMOSTAT
	AHU	AIR HANDLING UNIT	IN	INCH	CO2	
I.E.C & NFPA CODES.	ALUM	ALUMINUM	KEF	KITCHEN EXHAUST FAN		CARBON DIOXIDE SENSOR
LEC WINT A CODES:	AP	ACCESS PANEL	KW	KILOWATT	SD	SMOKE DETECTOR
ECTION TO EQUIPMENT	APD	AIR PRESSURE DROP	LDB	LEAVING DRY BULB		
DED FOR EQUIPMENT	ATC	AUTOMATIC TEMPERATURE CONTROL	LWB	LEAVING WET BULB	\mathcal{A}	
	AV	AIR VENT	LOR	LIMIT OF REMOVAL		EXISTING FIRE DAMPER
	BDD	BACK DRAFT DAMPER	MAX	MAXIMUM		
RANCES.	BOT	BOTTOM	MAA MBH	THOUSAND BTU PER HOUR		FIRE DAMPER
	BFP	BACKFLOW PREVENTER	мбп MD	MANUAL DAMPER		
ICE TO SCHEDULE ALL	BTU	BRITISH THERMAL UNIT	MIN	MINIMUM		FIRE SMOKE DAMPER
	C		(N)	NEW		
ED ON SCHEDULE.	CFM CHWS&R	CUBIC FEET PER MINUTE CHILLED WATER SUPPLY & RETURN	N N	NORTH		MANUAL VOLUME DAMPER
ED ON SCHEDULE.	CLG	CEILING	NA	NOT APPLICABLE		
PMENT UNLESS NOTED	CF	CEILING FAN	NO OR #	NUMBER, NORMALLY OPEN	M	
	CO	CLEAN OUT	NTS	NOT TO SCALE		MOTOR OPERATED DAMPER
	COND	CONDENSATE	OA	OUTSIDE AIR		
UIRED TO PROVIDE A	(D)	DEMOLISH	OBD	OPPOSED BLADE DAMPER	BMS	BUILDING MANAGEMENT SYSTEM
	DB	DRY BULB, DOWN BLOW	OD	OUTSIDE DIAMETER		
	DCW	DOMESTIC COLD WATER	OPER	OPERATING		
ND OWNER PRIOR TO	DEG	DEGREE	PSI	POUNDS PER SQUARE INCH		
	DELIV	DELIVERY	PSIG	POUNDS PER SQUARE INCH GAUGE	60	
	DHW	DOMESTIC HOT WATER	RA	RETURN AIR	30	OPE OF WORK
ED. ALL CONDENSATE	DISC	DISCONNECT	REG	REGISTER		
	DN	DOWN	RF	RETURN FAN		
S IN DUCTS AND PIPING	(E)	EXISTING	RG	RETURN GRILLE		
	EA	EXHAUST AIR, EACH	RH	RELATIVE HUMIDITY		
	EAT	ENTERING AIR TEMPERATURE	RHC	REHEAT COIL		
DIFFUSER, GRILLE AND	EDB	ENTERING DRY BULB	RM	ROOM	DEMOLISH	I THE E XISTING EXHAUST FANS AND
	EF	EXHAUST FAN	SA	SUPPLY AIR	PROVIDE	NEW EXHAUST FANS
	EFF		SEF	SMOKE EXHAUST FAN		
AGE SHALL BE 24 VOLT	ELEV EMS	ELEVATION ENERGY MANAGEMENT SYSTEM	SF	SUPPLY FAN		
	ENT	ENTERING	S/FD	SMOKE/FIRE DAMPER		
MECHANICAL OF THESE	EWB	ENTERING WET BULB				
MECHANICAL OF THESE	F	FAHRENHEIT	TEC	TERMINAL EQUIPMENT CONTROLLER		
	FD	FIRE DAMPER, FLOOR DRAIN	TEMP T/D	TEMPERATURE TRANSFER DUCT		
	FPM	FEET PER MINUTE	TYP	TYPICAL		
	FPS	FEET PER SECOND	V	VENT, VOLT		
AND BALANCING SHALL	F/SD	FIRE/SMOKE DAMPER	VD	VOLUME DAMPER		
ON DATE.	FT	FEET	VERT	VERTICAL		
	GPH	GALLONS PER HOUR	WB	WET BULB		
TO THE OWNER.	GPM	GALLONS PER MINUTE	WPD	WATER PRESSURE DROP		

				500			ELEC	TRICAL		
MARK	MANUF.	MODEL #	CFM	ESP (IN.WG.)	DRIVE	VE FAN RPM	MOTOR HP	POWER	ТҮРЕ	NOTES
SF-1	GREENHECK	RSFP-180	6,400	0.5"	BELT	544	3.00	480/3	SUPPLY	1,2,3,4,5,7,8,9
SF-2	GREENHECK	RSFP-180	6,400	0.5"	BELT	544	3.00	480/3	SUPPLY	1,2,3,4,5,7,8,9
SF-3	GREENHECK	RSFP-180	5,250	0.5"	BELT	495	3.00	480/3	SUPPLY	1,2,3,4,5,7,8,9
SF-4	GREENHECK	RSFP-180	5,250	0.5"	BELT	495	3.00	480/3	SUPPLY	1,2,3,4,5,7,8,9
EF-1	GREENHECK	RBE-2L30	8,000	0.25"	BELT	543	2.00	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-2	GREENHECK	RBE-2L30	8,000	0.25"	BELT	543	2.00	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-3	GREENHECK	RBE-2H42	13,500	0.25"	BELT	572	3.00	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-4	GREENHECK	RBE-2H42	13,500	0.25"	BELT	572	3.00	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-5	GREENHECK	RBE-2H42	13,500	0.25"	BELT	572	3.00	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-6	GREENHECK	RBE-3H30	5,250	0.25"	BELT	799	2.00	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-7	GREENHECK	RBE-3H30	5,250	0.25"	BELT	799	2.00	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-8	GREENHECK	RBE-3H30	5,250	0.25"	BELT	799	2.00	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-9	GREENHECK	RBE-3H30	5,250	0.25"	BELT	799	2.00	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-10	GREENHECK	GB-141	2,200	0.5"	BELT	1286	0.20	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-11	GREENHECK	GB-141	2,200	0.5"	BELT	1286	0.20	480/3	EXHAUST	1,2,3,4,5,6,8,9,10
EF-12	GREENHECK	GB-141	2,200	0.5"	BELT	1286	0.20	480/3	EXHAUST	1,2,3,4,5,6,8,9,10

NOTES:

1. PROVIDE 18" ROOF CURB.

2. PROVIDE WITH BIRD SCREEN. 3. FAN SHALL BE ALUMINUM CONSTRUCTION

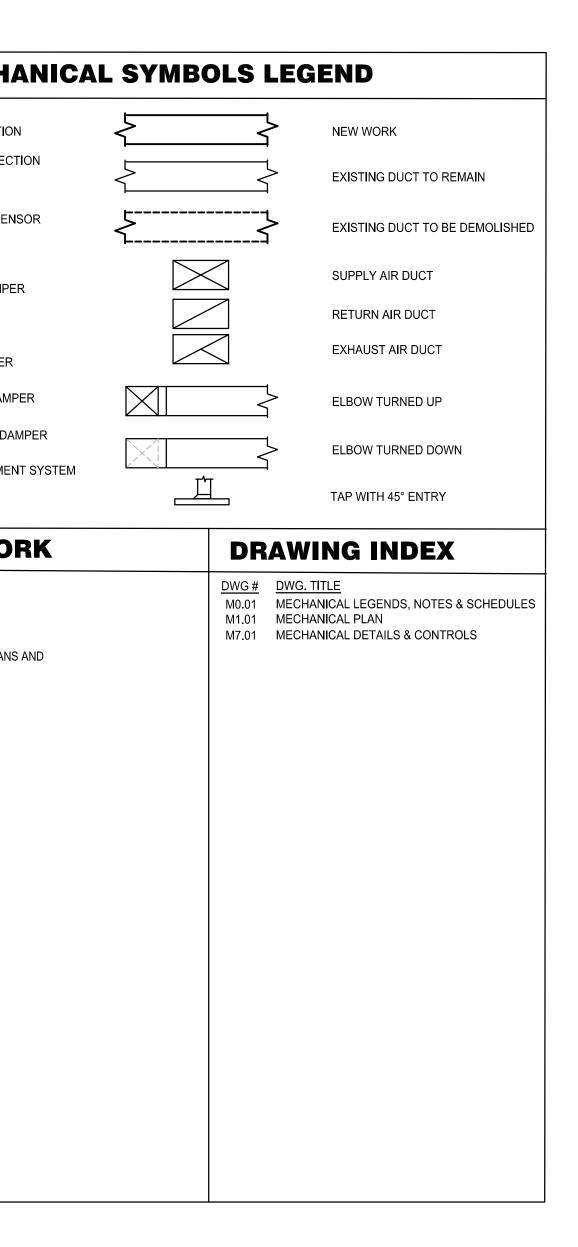
4. PROVIDE NEOPRENE ISOLATORS.

5. PROVIDE HIGH WIND APPLICATION 6. PROVIDE WITH EXPLOSION PROOF MOTOR & SPARK RESISTANCE CONSTRUCTION.

7. PROVIDE WASHABLE SS FILTERS

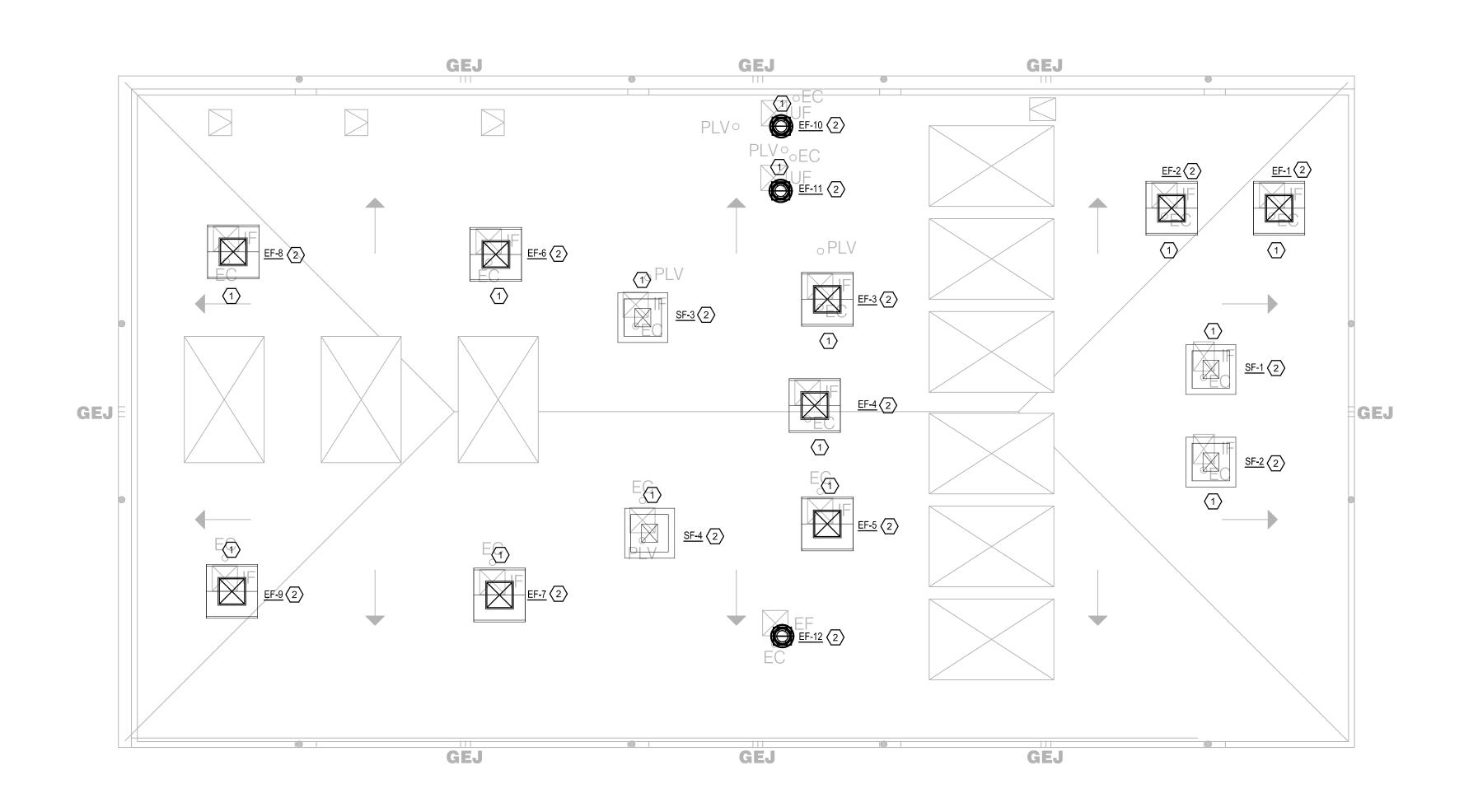
8. INTEGRAL DISCONNECT 9. PROVIDE BACKDRAFT DAMPER

10. PROVIDE HI-PRO POLYESTER COATING FOR ALL FAN COMPONENTS INCLUDING BACKDRAFT DAMPER



CONSUL	SGM ENGINEERING INC. MEP CONSULTING ENGINEERS CA-00006208 935 Lake Baldwin Lane Orlando, Fl. 32814 Tel: 407-767-5188 Fax: 407-767-5772 www.sgmengineering.com Copyright © 2018 SGM Engineering, Inc.
	CONSTRUCTION DOCUMENTS
	ORANGE COUNTY GOVERNMENT
	SWRF INFLUENT PUMP STATION
S	OUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA
	ROOF REPLACEMENT PROJECT
	JAY AMMON ARCHITECT, INC. 2246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779 77 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.
	REVISIONS
NUMBER	TYPE DATE:
DRAWN BY: . APPROVED I	
ME	CHANICAL LEGENDS, NOTES AND SCHEDULES

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GENERAL NOTES:

- a. REFER TO SYMBOL LEGENDS.
- b. REFER TO SPECIFICATION MANUAL.
- c. MODIFY ROOF OPENINGS AS REQUIRED FOR NEW FAN CURBS. ATTACH CURBS TO ROOF DECK PER MANUFACTURERS RECOMMENDATIONS FOR HIGH WIND CURB APPLICATION.

PLAN KEY NOTES: (#)

- 1. CONTRACTOR SHALL DISCONNECT ALL POWER FROM THE MECHANICAL EQUIPMENT BEING REPLACED. PROVIDE NEW NEMA 6 JUNCTION BOX, CONDUIT, PIPE SLEEVE AND FLEX WIRING; COORDINATE WITH NEW ROOF WORK AND FAN POWER LOCATION. CONDUIT AND WIRING SHALL MATCH EXISTING AND SHALL BE EXTENDED AS REQUIRED FOR A COMPLETE INSTALLATION OF NEW FAN WIRING.
- DEMOLISH FAN AND CURB; PROVIDE NEW FAN TO MATCH EXISTING. COORDINATE WITH NEW ROOF WORK AND POWER LOCATION.

CONSULTANT



CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT SWRF INFLUENT PUMP STATION AND SOUTH PLANT ELECTRICAL BUILDING ORLANDO, FLORIDA

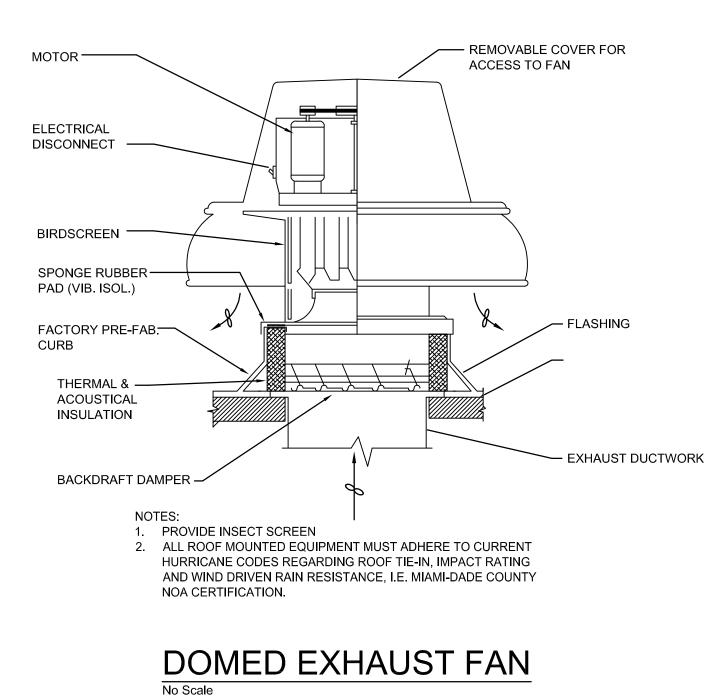
ROOF REPLACEMENT PROJECT

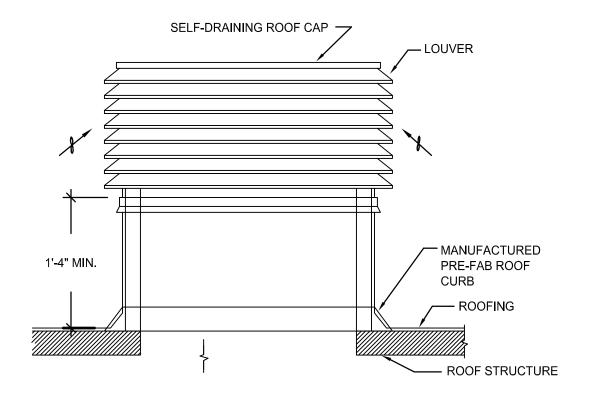
		JAY	AMMON AF	СНІТЕ	ECT. INC		
	3246 LAK		OAKS DRIVE				9
(407) 333-19	977	FAX:	(407) 333-4686	•	E MAIL:	JAY@JAYA	AMMON.CO
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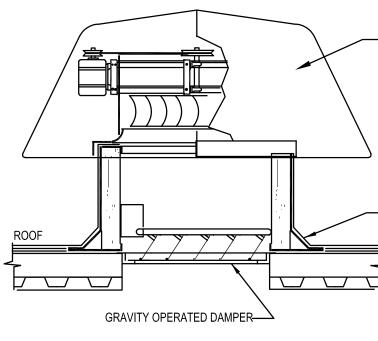
DRAWN BY: _____GJ____ PROJECT NUMBER: 18-079 APPROVED BY: <u>JAS</u> DATE: JANUARY 21, 2019

MECHANICAL PLAN

M1.1 SHEET







NOTES: PROVIDE INSECT SCREEN
 ALL ROOF MOUNTED EQUIPMENT MUST ADHERE TO CURRENT HURRICANE CODES REGARDING ROOF TIE-IN, IMPACT RATING AND WIND DRIVEN RAIN RESISTANCE, I.E. MIAMI-DADE COUNTY NOA CERTIFICATION.

ROOF MOUNTED SUPPLY FAN

PROVIDE INSECT SCREEN
 ALL ROOF MOUNTED EQUIPMENT MUST ADHERE TO CURRENT HURRICANE CODES REGARDING ROOF TIE-IN, IMPACT RATING

NOTES:

AND WIND DRIVEN RAIN RESISTANCE, I.E. MIAMI-DADE COUNTY NOA CERTIFICATION.

ROOF EXHAUST FAN

- EXHAUST FAN



- PREFABRICATED ROOF CURB

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			GOVERNMENT
	SWRF IN	FLUENT F	PUMP STATION
S	OUTH PLA		TRICAL BUILDING Lorida
	ROOF RE	EPLACEM	ENT PROJECT
	3246 LAKEVIEW O	AKS DRIVE 🔹 LO	HITECT, INC. DNGWOOD, FLORIDA 32779 E MAIL: JAY@JAYAMMON.C
NUMBER	TYPE	REVISIO	NS DATE:
DRAWN BY:			PROJECT NUMBER: <u>18-0</u> DATE: JANUARY 21, 20

MECHANICAL DETAILS AND CONTROLS

