#### HILLSBOROUGH COUNTY S **RE-ENTRY CENTER RC**

100% CONSTRUCT

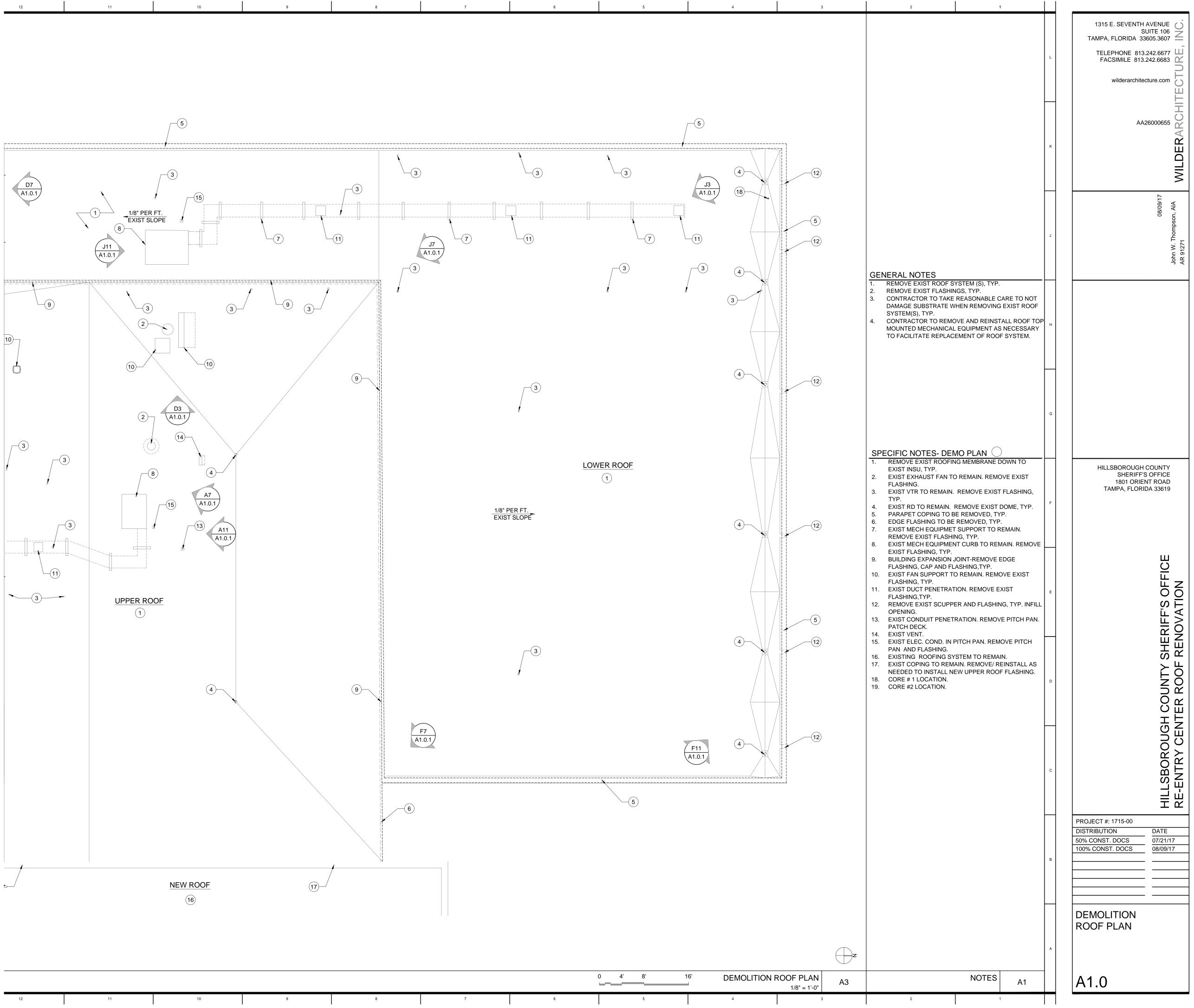


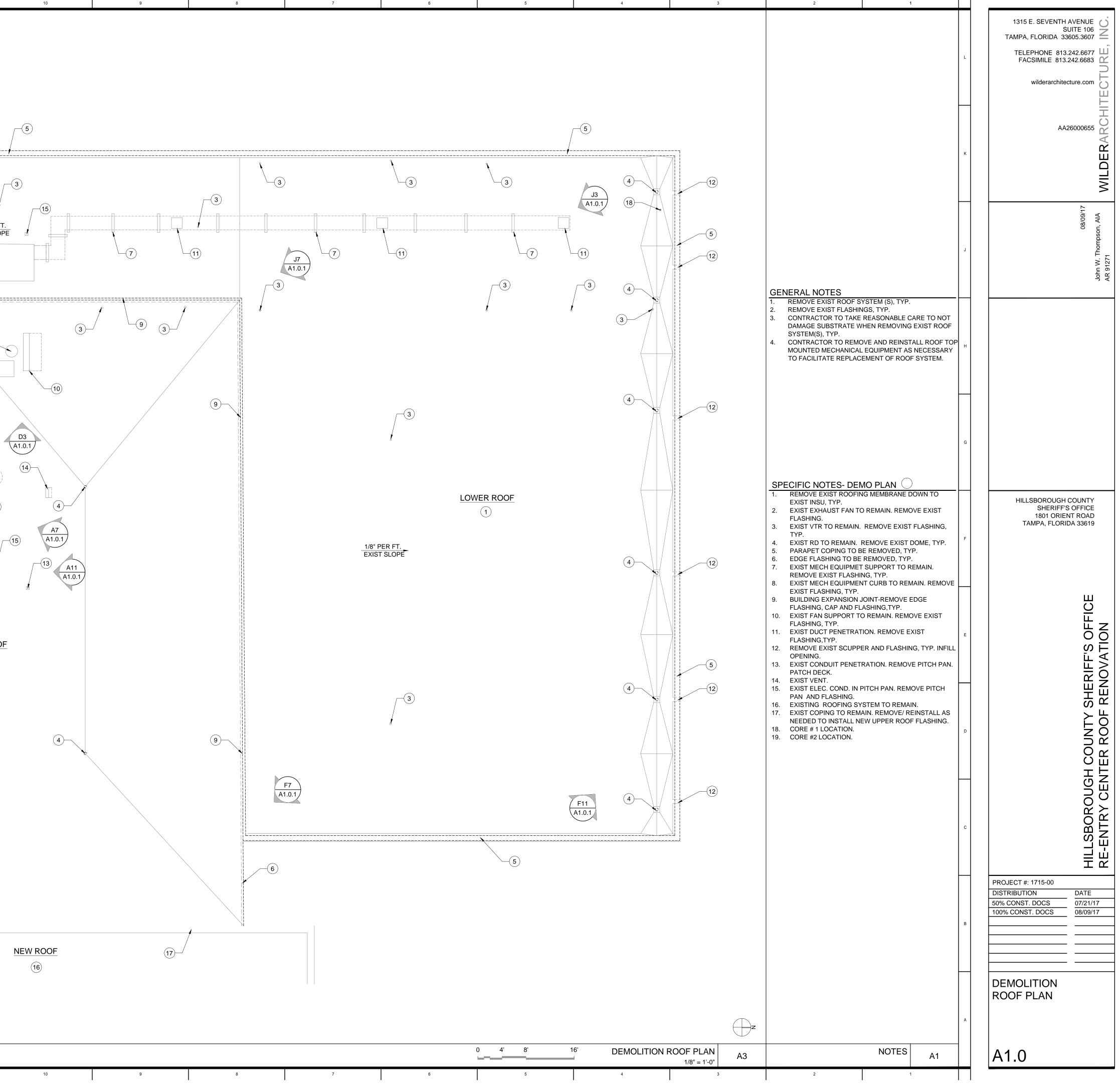
BANCHOR BOLTCAIR CONDITION, ER, INGDAAMERICANS WITH DISABILITIES ACT	MAINT MAINTENANCE MAS MASONRY	PROJECT GENERAL NOTES		APPLICABLE CODES
DJ ADJACENT FF ABOVE FINISHED FLOOR	MAX MAXIMUM MECH MECHANICAL MFR MANUFACTURER	1. NO CONSTRUCTION ACTIVITIES SHALL OCCUR OUTSIDE OF THE OWNER WITHOUT OWNER'S APPROVAL.	F THE STAGING, AND VEHICLE / STORAGE AREA(S) DESIGNATED BY	<ul> <li>2014 FLORIDA BUILDING CODE (5TH EDITION)</li> <li>2014 FLORIDA PLUMBING CODE (5TH EDITION)</li> </ul>
LUM ALUMINUM PC ACOUSTIC PANEL CEILING PPROX APPROXIMATELY	MH MANHOLE MIN MINIMUM MISC MISCELLANEOUS	2. THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUC	ICTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND	<ul> <li>2014 EXISTING BUILDING CODE (5TH EDITION)</li> </ul>
RCH ARCHITECT	MISC MISCELLANEOUS MO MASONRY OPENING MTD MOUNTED	3. CONTRACTOR SHALL PROTECT EXTERIOR FINISHES, EQUIF	IPMENT AND SYSTEMS DURING CONSTRUCTION. CONTRACTOR	BUILDING DATA BUILDING TYPE: II-B
LDG(S) BUILDING(S) LK BLOCK LKG BLOCKING	MVCJ MASONRY VERTICAL CONTROL JOINT	SHALL DOCUMENT (AND NOTIFY THE ARCHITECT OF) ANY E NOT REPORTED SHALL BE REPAIRED BY CONTRACTOR AT	EXISTING DAMAGE PRIOR TO BEGINNING ANY WORK. DAMAGE NO ADDITIONAL COST TO OWNER.	FIRE PROTECTION: BUILDING IS FULLY SPRINKLERED
OS BOTTTOM OF STEEL OTT BOTTOM	NIC NOT IN CONTRACT #, NO NUMBER	<ol> <li>CONTRACTOR TO PROVIDE SIGNAGE AT ALL BUILDING ENT ACCESS IF REQ'D.</li> </ol>	TRANCES AND PEDESTRIAN TRAFFIC AREAS TO MAINTAIN SAFE	OCCUPANCY TYPE: BUSINESS (B)
RG BEARING UR BUILT-UP ROOFING	NTS NOT TO SCALE OC ON CENTER	5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITION CONFLICTS BEFORE PROCEEDING WITH WORK.	IONS SHOWN ON DRAWINGS AND NOTIFY ARCHITECT OF ANY	
I CONTRACTOR INSTALLED J CONTROL JOINT	OD OUTSIDE DIAMETER OH OVERHEAD	6. CONTRACTOR TO PROVIDE SECURITY FOR ALL CONSTRUC		ROOF AREAS • UPPER ROOF AREA: 10,965 SF (VIF)
L CENTER LINE LF CHAIN LINK FENCE LG CEILING	OI OWNER INSTALLED OP OWNER PROVIDED OPNG OPENING		M EXIST CONDITIONS. MECHANICAL DEVICES AND PENETRATIONS E ADDRESSED BY CONTRACTOR IF SHOWN ON PLANS OR NOT.	LOWER ROOF AREA: 10,287 SF (VIF)
EM CEMENT P CONTRACTOR PROVIDED	OPP OPPOSITE OPH OPPOSITE HAND		PROJECT GENERAL NOTES	K7 SCUPPERS • SCUPPER SIZING PER TABLE - 1106.7 (FBC, PLUMBING)
RCLASSROOMTCERAMIC TILEMCONSTRUCTION MANAGER	PERIM PERIMETER PLAS PLASTER	PROJECT SCOPE		<ul> <li>SCUPPERS AS SECONDARY DRAINAGE - 1107.1 (FBC, PLUMBING)</li> <li>OPENING SHALL BE = OR &gt; 4" (WEIR) - 1107.3 (FBC, PLUMBING)</li> </ul>
MU CONCRETE MASONRY UNIT OL COLUMN	PL PROPERTY LINE PNT PAINT (PAINTED FINISH)		TING BUILDING OCCUPANCY CLASSIFICATION, FIRE PROTECTION ELEMENTS,	<ul> <li>2" - 4" ABOVE THE FINISHED ROOF COVERING (AS CLOSE AS POSSII VERTICAL LEADERS) - 1503.4.3 (FBC)</li> <li>SIZE IN ACCORDANCE WITH THE PLUMBING CODE (MIN 4" IN ANY DI</li> </ul>
ONC CONCRETE ONF CONFERENCE ONST CONSTRUCTION	PROJ PROJECT PT PRESSURE TREATED PTN PARTITION		LL REMAIN. NO LIFE SAFETY FEATURES WILL BE DIMINISHED. THE PROJECT	SCOPE 1514.4.2 (FBC) • THE NUMBER OF SCUPPERS SHALL NOT BE REDUCED IN A REROOF
ONT CONTINUOUS ONTR CONTRACTOR PT CARPET	PVC POLYVINYL CHLORIDE PLWD PLYWOOD	1. REMOVAL AND REPLACEMENT OF THE ROOFING MEMBRA	RANE SYSTEM.	1514.4.2.2 (FBC)
DEEP, DEPTH	PP PUSH PLATE QT QUARRY TILE	<ol> <li>2. REMOVAL AND REPLACEMENT OF THE FLASHINGS.</li> <li>3. REMOVAL AND RELOCATION OF THE SCUPPERS.</li> <li>4. REMOVAL AND REINSTALLATION OF PROFERENCE AND</li> </ol>	ICAL SYSTEMS AND EQUIPMENT AS REQUIRED FOR NEW ROOF MEMBRANE	
EMO DEMOLITION F DRINKING FOUNTAIN IAM DIAMETER	R/W RIGHT OF WAY	<ol> <li>REMOVAL AND REINSTALLATION OF ROOFTOP MECHANIC INSTALLATION.</li> <li>TWO ROOFS (OF THREE EXIST) WILL BE REPLACED.</li> </ol>		
IM DIMENSION OCS DOCUMENTS	RCP REFLECTED CEILING PLAN RD ROOF DRAIN REBAR REINFORCING BAR	BASE BID: "TPO" ROOF MEMBRANE		
N DOWN S DOWNSPOUT TL DETAIL	REINF REINFORCE/MENT/ING REQ'D REQUIRED RM ROOM	BID ALTERNATE: "PVC" ROOF MEMBRANE		
WG DRAWING	RO ROUGH OPENING RWB RESILIENT WALL BASE		PROJECT SCOPE	H7 CODE REFERENCES AND BUILDING DAT
A EACH HPA ENHANCED HURRICANE PROTECTION AREA	RWLRAIN WATER LEADERSCSMOKE COMPARTMENT			
J EXPANSION JOINT LEC ELECTRICAL	SHT SHEET SF SQUARE FOOT			
Q EQUAL QUIP EQUIPMENT	SIM SIMILAR SOG SLAB ON GRADE SPECS SPECIFICATIONS			
TC ETCETERA TR EXISTING TO REMAIN WC ELECTRIC WATER COOLER	SQ SQUARE SS STAINLESS STEEL			
WH ELECTRIC WATER HEATER XIST EXISTING	STC SOUND TRANSMISSION CLASS (RATIN STD STANDARD STL STEEL	;) 		
XP EXPOSED XT EXTERIOR	STOR STORAGE STRL STRUCTURAL			
BCFLORIDA BUILDING CODEDFLOOR DRAIN	SUSP SUSPEND / ED / SION T&B TOP AND BOTTOM			
E FIRE EXTINGUISHER FPC FLORIDA FIRE PREVENTION CODE IN FINISH	T&G TONGUE AND GROOVE TEL TELEPHONE			
IXT FIXTURE	TEMP TEMPORARY			
L FLOOR	TERR TERRAZZO TOM TOP OF MASONRY			
LUOR FLUORESCENT T FEET	TOMTOP OF MASONRYTOSTOP OF STEELTOTTOTAL			
LUOR FLUORESCENT T FEET TG FOOTING URN FURNITURE	TOMTOP OF MASONRYTOSTOP OF STEELTOTTOTALT/STOP OF SLABTYPTYPICAL (UNO)			
LUOR FLUORESCENT T FEET TG FOOTING URN FURNITURE A GAUGE ALV GALVANIZED C GENERAL CONTRACTOR	TOMTOP OF MASONRYTOSTOP OF STEELTOTTOTALT/STOP OF SLABTYPTYPICAL (UNO)UNOUNLESS NOTED OTHERWISE			
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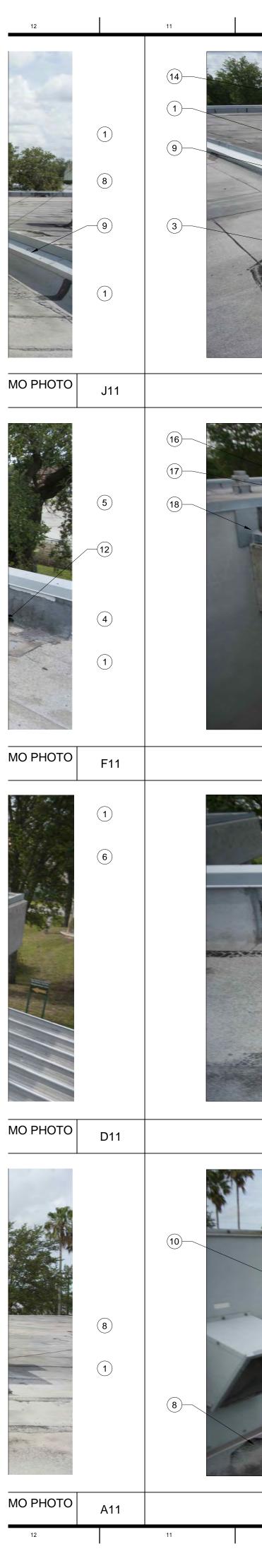
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ZONES	POS (+)	NEG (-)
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2	16.0	-57.1
3	16.0	-86.0

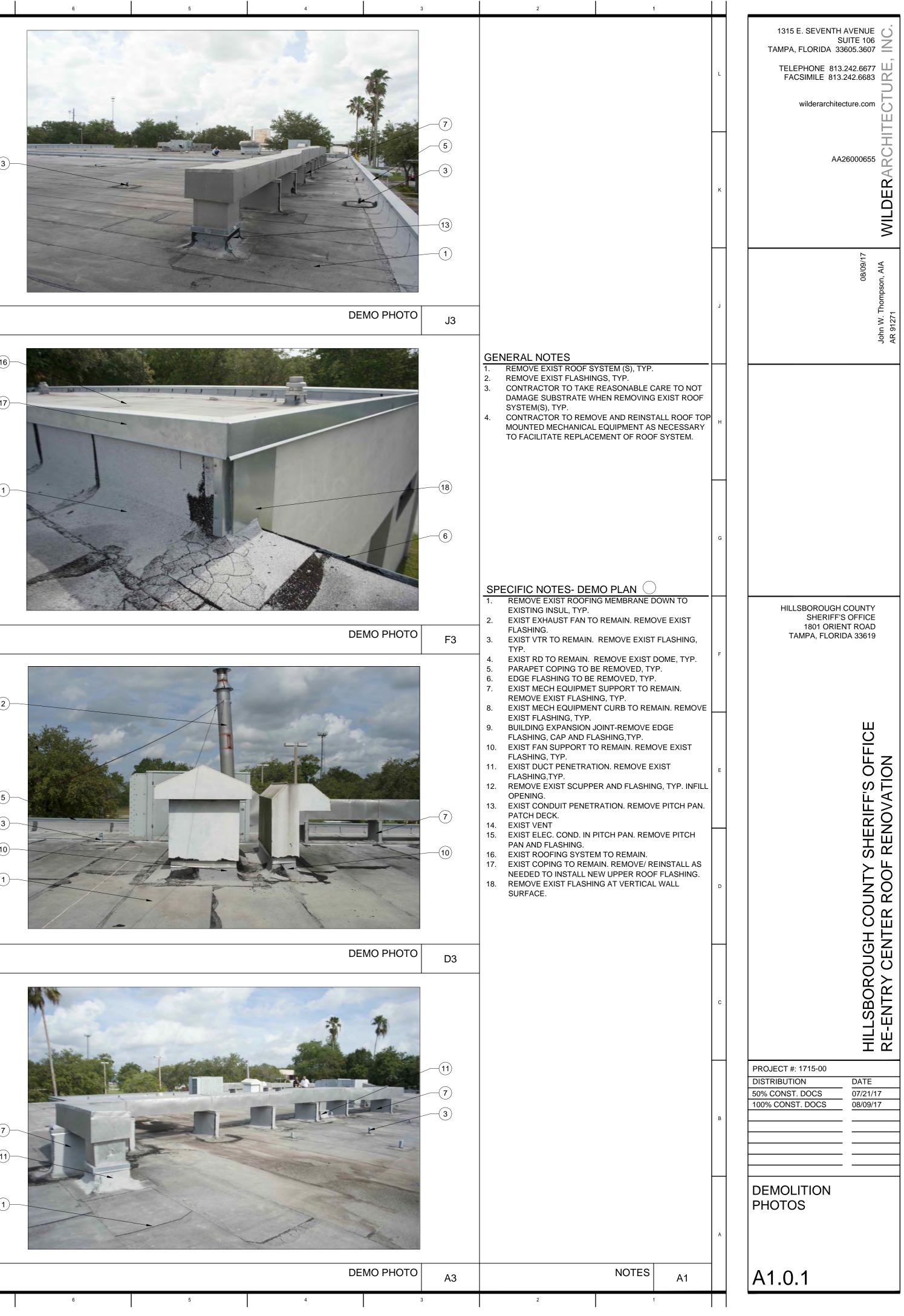
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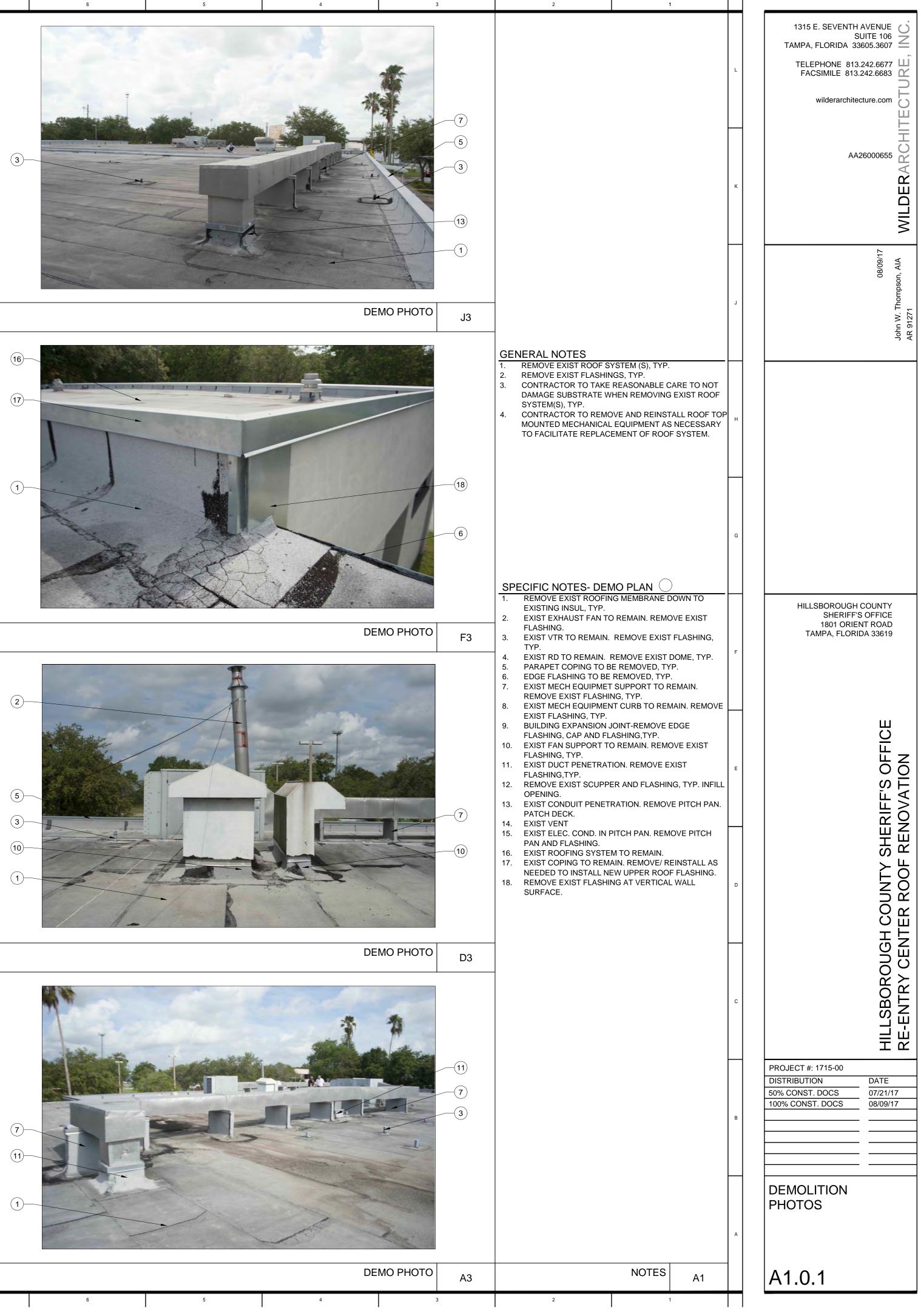


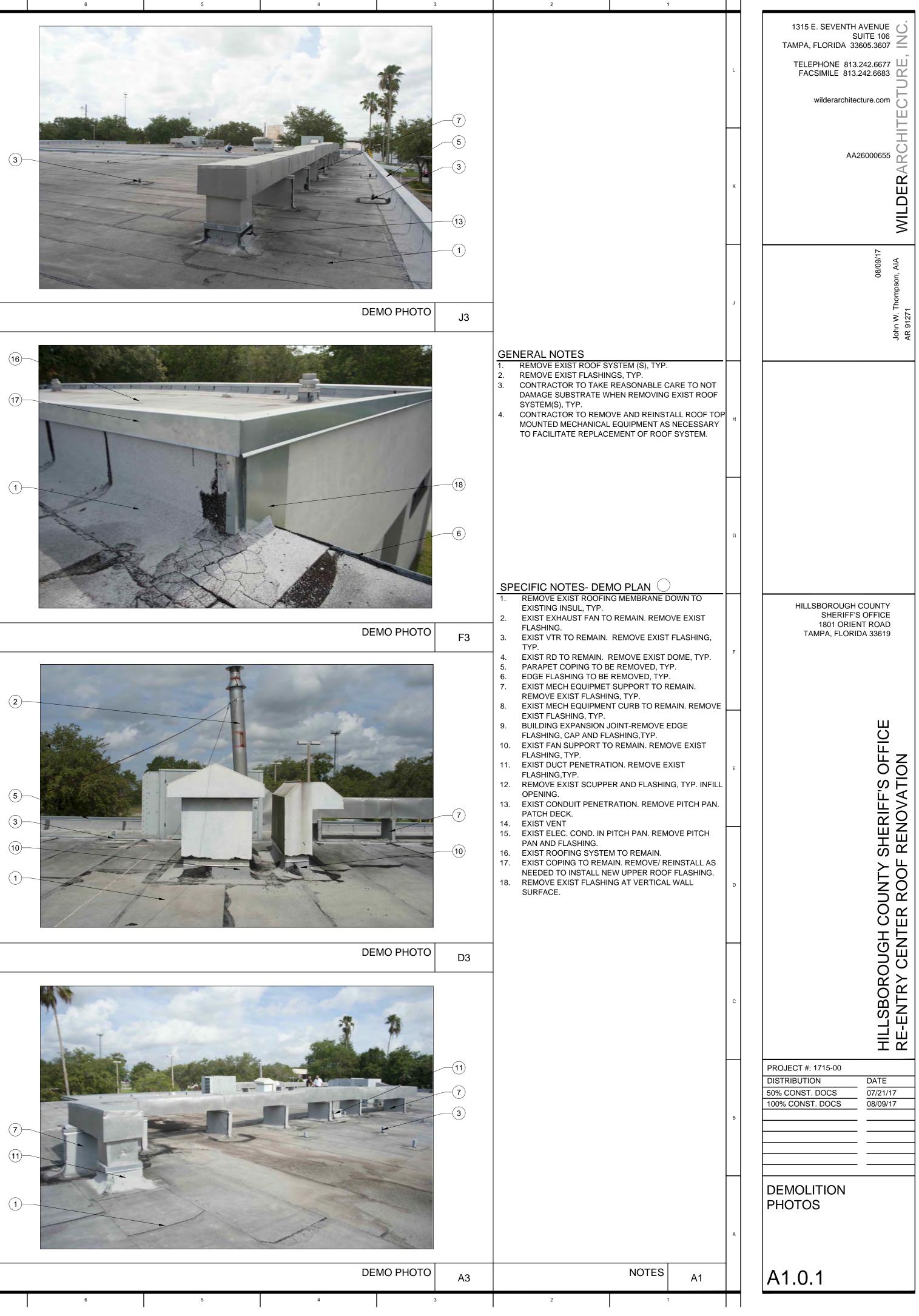


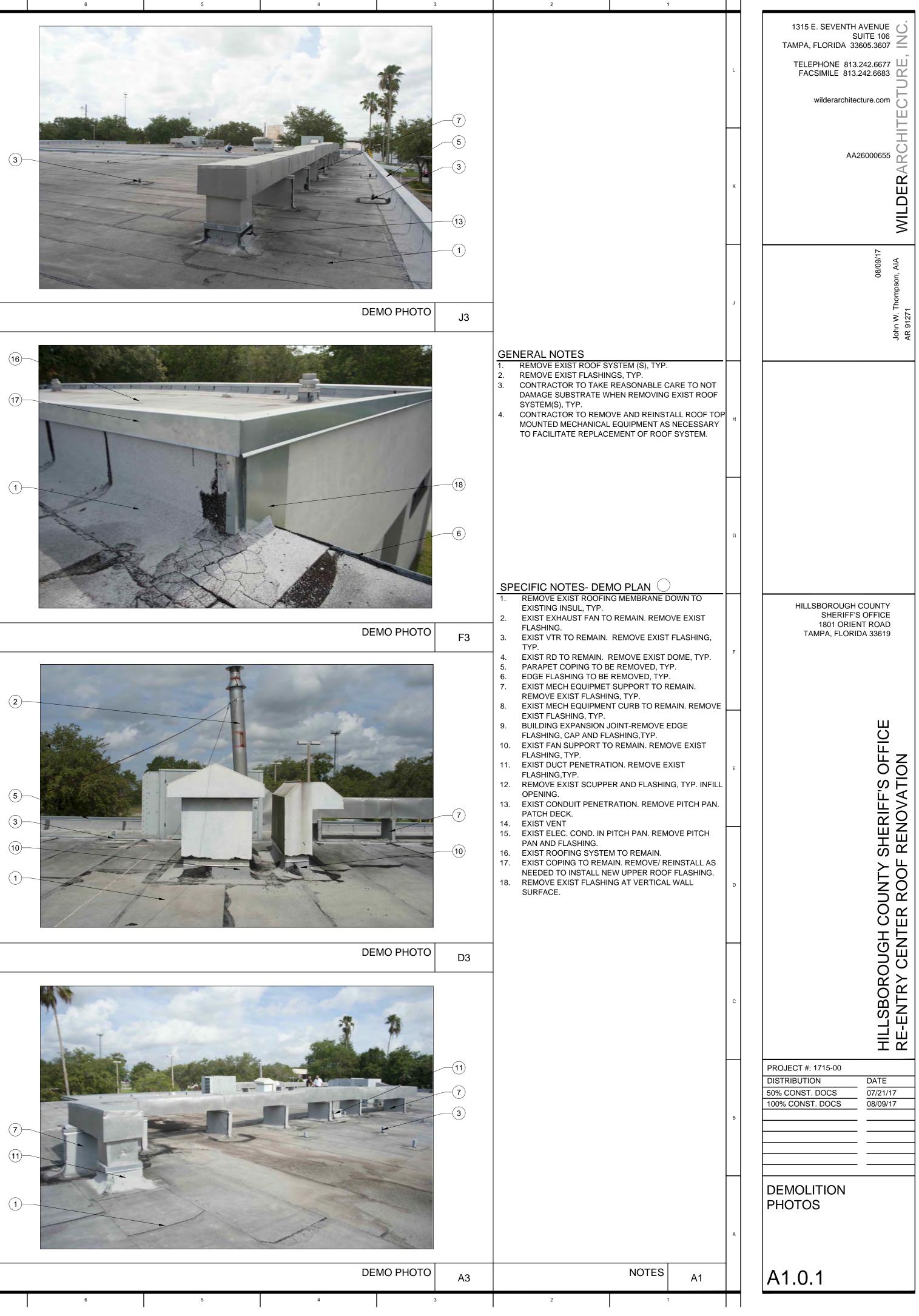














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J7



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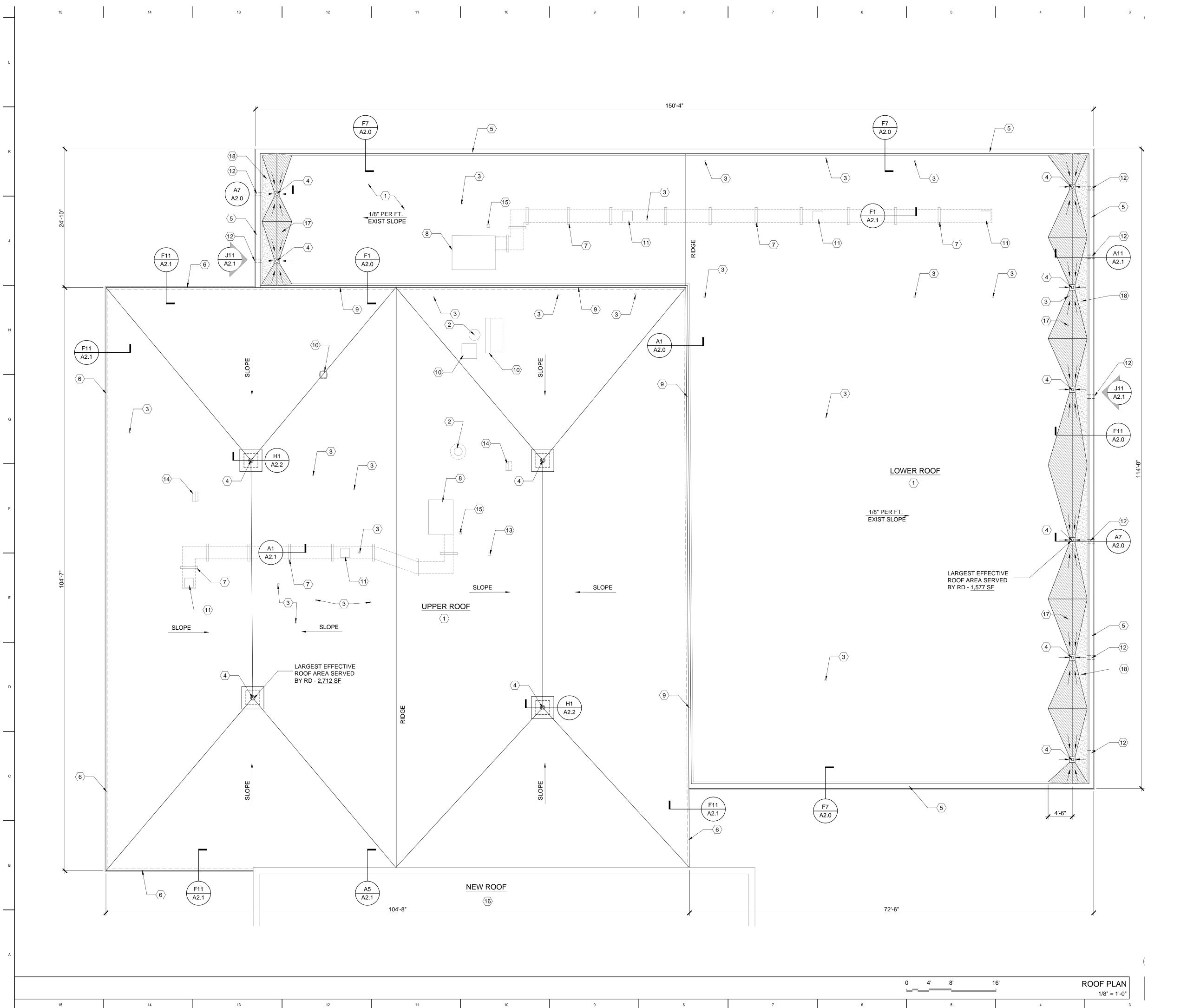


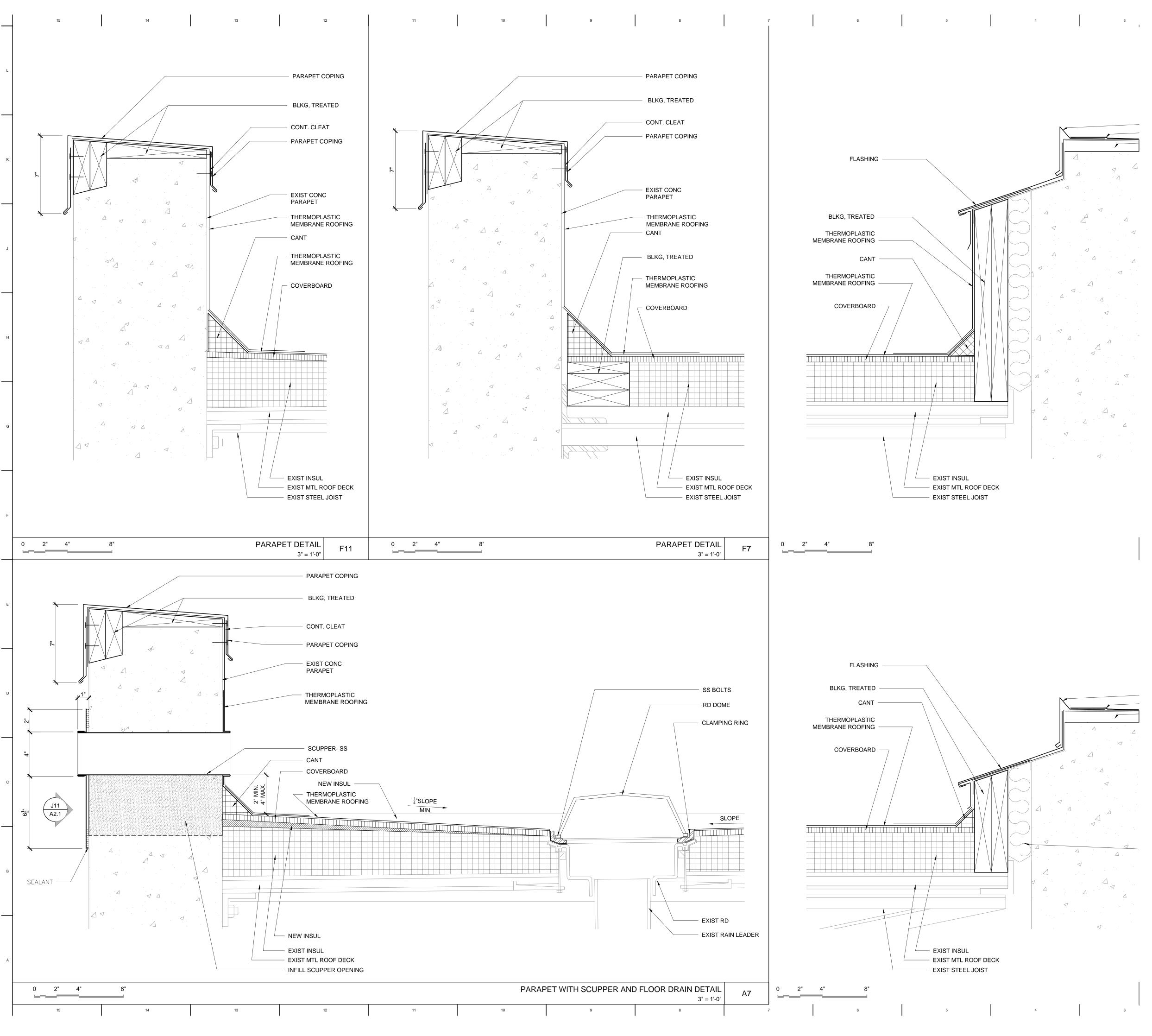
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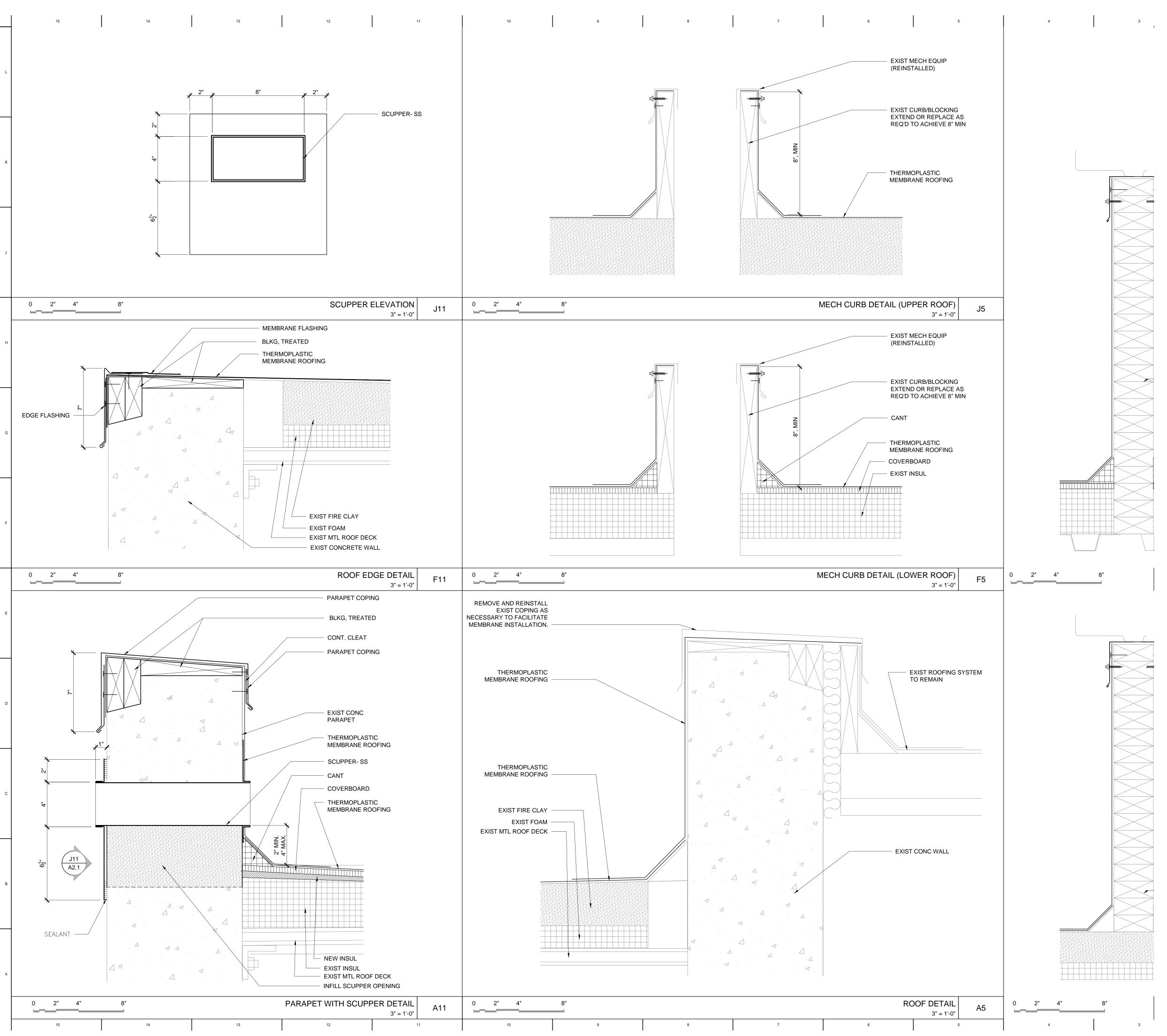
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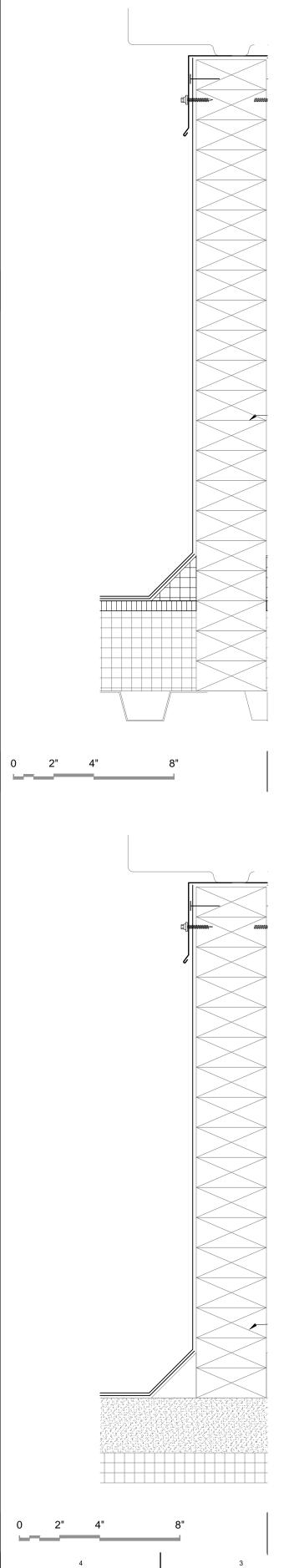
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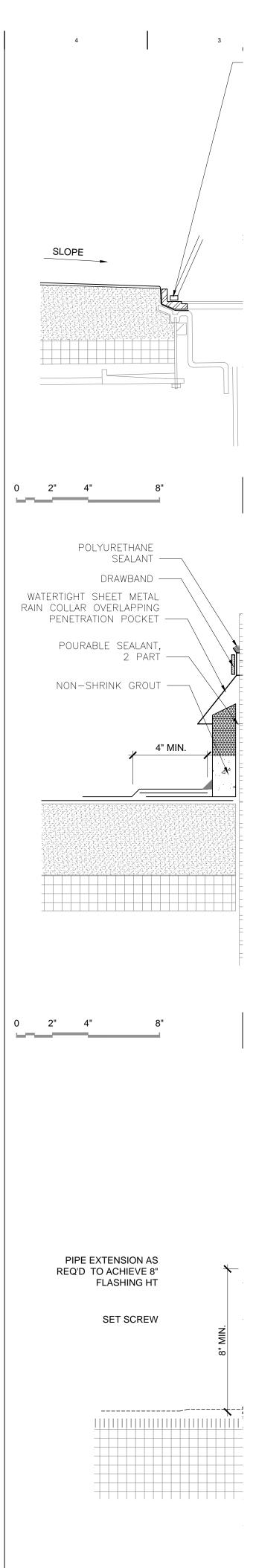






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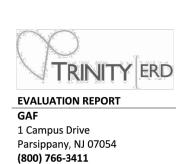


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## 5. LIMITATIONS: 5.2 This Evaluation Report is not for use in HVHZ. 5.3 Refer to a current Roofing Materials Directory for fire ratings of this product. documentation. TAS 105. of the proposed new roof assembly.

Exterior Research and Design, LLC. Certificate of Authorization #9503

61G20-3.



SCOPE LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein

Evaluation Report relative to updated Code requirements with each Code Cycle. This Evaluation Report consists of pages 1 through 6, plus a 93-page Appendix.

Prepared by:

Robert J.M. Nieminen, P.E. Florida Registration No. 59166, Florida DCA ANE1983

- **CERTIFICATION OF INDEPENDENCE:** any company manufacturing or distributing products it evaluates.
- distributing products it evaluates.
- which the evaluation reports are being issued.
- specifically for that purpose.

### **RINITY** ERD

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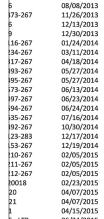
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F.A.C. Rule 61G20-3

Report 01506.09.05-R26 FL5293-R25 Revision 26: 02/16/2017 Page 6 of 6

**RINITY** ERD oduced by **GAF**, have ng Code through testing ments and Limitations /

2004 1992 2008 2011 Date 07/15/2013 73-267



04/07/2015 04/15/2015 06/24/2015 11/19/2015 02/10/2016 04/13/2016 05/05/2016 05/05/2016 06/15/2016 07/21/2016 09/01/2016 09/01/2016 10/21/2016 12/05/2016 12/23/2016 01/04/2017 01/18/2002 02/17/2004 02/18/2004

Report 01506.09.05-R26 FL5293-R25 Revision 26: 02/16/2017 Page 2 of 6





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5.1 This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

- 5.4 For steel deck installations, foam plastic insulation shall be separated from the building interior in accordance
- with FBC 2603.4 unless the exceptions stated in FBC 2603.4.1 or 2603.6 apply. 5.5 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval
- 5.6 For recover installations, the existing roof shall be examined in accordance with **FBC 1510**.
- 5.7 For mechanically attached insulation or membrane or strip-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16. Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, RAS 117 and RAS 137. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.
- 5.8 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems. 5.9 For mechanically attached insulation or membrane over existing roof decks, fasteners shall be tested in the
  - existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with ANSI/SPRI FX-1 or
- 5.10 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or TAS 124 shall be conducted on mock-ups
- 5.11 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with ASTM E907, FM Loss Prevention Data Sheet 1-52 or TAS 124.
- 5.12 Metal edge attachment (except gutters), shall be designed and installed for wind loads in accordance with FBC Chapter 16 and tested for resistance in accordance with ANSI/SPRI ES-1 or RAS 111, except the basic wind speed shall be determined from FBC Figure 1609.
- 5.13 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and F.A.C. Rule



Evaluation Report 01506.09.05-R26 FL5293-R25 Revision 26: 02/16/2017 Page 5 of 6

**EXTERIOR RESEARCH & DESIGN, LLC.** Certificate of Authorization #9503

353 Christian Street, Unit 13 Oxford, CT 06478 (203) 262-9245

Evaluation Report 01506.09.05-R26 FL5293-R25 Date of Issuance: 11/09/2005 Revision 26: 02/16/2017

This Evaluation Report is issued under Rule 61G20-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the 5<sup>th</sup> Edition (2014) Florida Building Code sections noted herein.

DESCRIPTION: EverGuard<sup>®</sup> TPO Single-Ply Roof Membrane Systems

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity | ERD requires a complete review of this

ADVERTISEMENT: The Evaluation Report number preceded by the words "TRINITY|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety. **INSPECTION:** Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.



he facsimile seal appearing was authorized by Robert Niemine .E. on 02/16/2017. This does not serve as an electronically signed ocument. Signed, sealed hardcopies have been transmitted to the nd to the named clien

1. Exterior Research & Design, LLC. d/b/a Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in 2. Exterior Research & Design, LLC. d/b/a Trinity|ERD is not owned, operated or controlled by any company manufacturing or 3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for 4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the

5. This is a building code evaluation. Neither Trinity | ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained

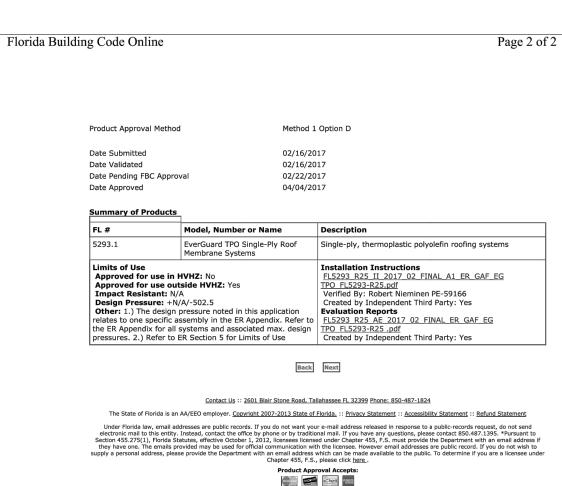
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Entity	Exam	Reference	Date	Entity	Exam	Reference	Date
FM App (TST1867)	FM 4470	797-07331-267	04/13/2012	PRI (TST5878)	Physicals	GAF-584-02-01	12/07/2015
FM App (TST1867)	FM 4470	3044862	05/11/2012	PRI (TST5878)	Physicals	GAF-585-02-01	12/07/2015
FM App (TST1867)	FM 4470	797-07455-267	05/31/2012	PRI (TST5878)	Physicals	GAF-586-02-01	12/07/2015
FM App (TST1867)	FM 4470	797-07474-267	06/11/2012	PRI (TST5878)	FM 4474	GAF-453-02-05	05/06/2016
FM App (TST1867)	FM 4470	797-07476-267	06/21/2012	PRI (TST5878)	FM 4474	GAF-453-02-09	05/06/2016
FM App (TST1867)	FM 4470	3045789	07/12/2012	PRI (TST5878)	FM 4474	GAF-746-02-01	12/14/2016
FM App (TST1867)	FM 4470	3045863	08/16/2012	PRI (TST5878)	FM 4474	GAF-746-02-02	12/14/2016
FM App (TST1867)	FM 4470	3041749	08/23/2012	PRI (TST5878)	FM 4474	GAF-746-02-05	12/14/2016
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FM App (TST1867)	FM 4470	3041769	09/27/2012	PRI (TST5878)	FM 4470	GAF-755-02-01	02/02/2017
FM App (TST1867)	FM 4470	797-07744-267	10/17/2012	PRI (TST5878)	FM 4474	GAF-755-02-02	02/02/2017
FM App (TST1867)	FM 4470	797-07885-267	11/21/2012	PRI (TST5878)	FM 4474	GAF-755-02-03	02/02/2017
FM App (TST1867)	FM 4470	3046054	12/21/2012	PRI (TST5878)	FM 4474	GAF-755-02-04	02/02/2017
FM App (TST1867)	FM 4470	797-08216-267	04/11/2013	UL,LLC(QUA9625)	QA	Inspect, R1306 (TX)	10/20/2016
FM App (TST1867)	FM 4470	3048122	04/29/2013	UL,LLC(QUA9625)	QA	Inspect, R1306 (IN)	10/27/2016
FM App (TST1867)	FM 4470	797-08217-267	05/01/2013	UL,LLC(QUA9625)	QA	Inspect, R1306 (MA)	10/18/2016
FM App (TST1867)	FM 4470	797-08264-267	05/23/2013	UL,LLC(QUA9625)	QA	Inspect, R1306 (UT)	12/01/2016
PRODUCT DESCR	IPTION:			1			

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- This Evaluation Report covers EverGuard® TPO Single-Ply Roof Membrane Systems installed in accordance with GAF published installation instructions and the Limitations / Conditions of Use herein. > EverGuard<sup>®</sup> TPO membranes are nominal 45-mil (1.1 mm), 60-mil (1.52-mm) or 80-mil (2.0 mm) thick, internally
- reinforced thermoplastic polyolefin roof covers supplied. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to Approved substrates. > EverGuard Extreme TPO membranes are nominal 50-mil (1.27-mm), 60-mil (1.52-mm), 70-mil (1.8) or 80-mil (2.0
- mm) thick, internally reinforced thermoplastic polyolefin roof covers supplied. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to Approved substrates. > EverGuard<sup>®</sup> TPO FB Ultra membranes are nominal 45-mil (1.1 mm), 60-mil (1.52-mm) or 80-mil (2.0 mm) thick,
- internally reinforced thermoplastic (TPO) roof covers with a polyester fleece backing. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to Approved substrates.
- > EverGuard Extreme<sup>®</sup> TPO FB Ultra membranes are nominal 50-mil (1.27-mm), 60-mil (1.52-mm), 70-mil (1.8) or 80mil (2.0 mm) thick, internally reinforced thermoplastic (TPO) roof covers with a polyester fleece backing. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to Approved substrates.
- ≻ EverGuard<sup>®</sup> Freedom™ TPO HW and EverGuard<sup>®</sup> Freedom™ TPO with RapidSeam™ Technology membranes are nominal 45-mil (1.1 mm) or 60-mil (1.52-mm) thick, internally reinforced thermoplastic (TPO) roof covers with a self-adhering backing. EverGuard<sup>®</sup> Freedom<sup>™</sup> TPO HW laps are sealed using hot air welding. EverGuard<sup>®</sup> Freedom™ TPO with RapidSeam™ Technology laps are self-adhering. The roof cover is self-adhered to Approved substrates.

Exterior Research and Design, LLC. FBC NON-HVHZ EVALUATION Certificate of Authorization #9503 GAF

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# 5. LIMITATIONS: 5.2 This Evaluation Report is not for use in HVHZ. Approval documentation. 1 or TAS 105. Rule 61G20-3.

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Certificate of Authorization #9503



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2.	Exterior Research & Design, LLC. d/b/a Trinity distributing products it evaluates.
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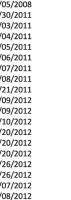
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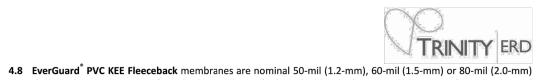
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thick, polyester scrim reinforced, thermoplastic (polyvinyl chloride ketone ethylene ester) single-ply roof membranes with a 3.5 oz/yd<sup>2</sup> polyester fleece fabric backing, available in 120 and 60-inch wide rolls

5.1 This is a building code evaluation. Neither Trinity | ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

5.3 Refer to a current Roofing Materials Directory for fire ratings of this product.

5.4 For steel deck installations, foam plastic insulation shall be separated from the building interior in accordance

with FBC 2603.4 unless the exceptions stated in FBC 2603.4.1 or 2603.6 apply. 5.5 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC

5.6 For recover installations, the existing roof shall be examined in accordance with FBC 1510.

5.7 For mechanically attached insulation or membrane or strip-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16. Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, RAS 117, and RAS 137. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements. 5.8 For assemblies with all components fully bonded in place, the maximum design pressure for the selected

assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems. 5.9 For mechanically attached insulation or membrane over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison

to the minimum requirements for the system. Testing and analysis shall be in accordance with ANSI/SPRI FX-

5.10 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or TAS 124 or shall be conducted on mock-ups of the proposed new roof assembly.

5.11 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with ASTM E907, FM Loss Prevention Data Sheet 1-52 or TAS 124.

5.12 Metal edge attachment (except gutters), shall be designed and installed for wind loads in accordance with FBC Chapter 16 and tested for resistance in accordance with ANSI/SPRI ES-1 or RAS 111, except the basic wind speed shall be determined from FBC Figure 1609.

5.13 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and F.A.C.

FBC NON-HVHZ EVALUATION

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**EXTERIOR RESEARCH & DESIGN, LLC.** Certificate of Authorization #9503

353 Christian Street, Unit 13 Oxford. CT 06478 (203) 262-9245 Evaluation Report 01506.09.04-R24

FL3443-R21 Date of Issuance: 07/20/2005 Revision 24: 04/10/2017

This Evaluation Report is issued under Rule 61G20-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the 5<sup>th</sup> Edition (2014) Florida Building Code sections noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity | ERD requires a complete review of this

Evaluation Report relative to updated Code requirements with each Code Cycle. ADVERTISEMENT: The Evaluation Report number preceded by the words "TRINITY|ERD Evaluated" may be displayed in ortion of the Evaluation Report is displayed, then it shall be done in its entirety. ppy of this entire Evaluation Report shall be provided to the user by the manufacturer or ailable for inspection at the job site at the request of the Building Official.

ts of pages 1 through 6, plus a 80-page Appendix.



he facimilie seal appearing was authorized by Robert Nieminen, P.E n 04/10/2017. This does not serve as an electronically signed ocument. Signed, sealed hardcopies have been transmitted to t trator and to the named client C. d/b/a Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in

r distributing products it evaluates. LLC. d/b/a Trinity|ERD is not owned, operated or controlled by any company manufacturing or ot have nor will acquire, a financial interest in any company manufacturing or distributing products for re being issued. 4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the

5. This is a building code evaluation. Neither Trinity | ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained

Entity	Examination	Reference	Date
PRI (TST5878)	FM 4470 / 4474	GAF-510-02-02	04/08/2014
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PRI (TST5878)	FM 4470 / 4474		05/13/2014
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PRI (TST5878)	FM 4470 / 4474	GAF-525-02-02	06/23/2014
PRI (TST5878)	FM 4470 / 4474	GAF-525-02-03	06/23/2014
PRI (TST5878)	FM 4470 / 4474	GAF-462-02-07	07/01/2014
PRI (TST5878)	FM 4470 / 4474	GAF-462-02-08	07/01/2014
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PRI (TST5878)	FM 4470 / 4474	GAF-462-02-11	07/01/2014
PRI (TST5878)	FM 4470 / 4474	GAF-538-02-03	08/13/2014
PRI (TST5878)	FM 4470 / 4474	GAF-653-02-01	11/11/2016
PRI (TST5878)	FM 4470 / 4474	GAF-653-02-04	11/11/2016
PRI (TST5878)	FM 4470 / 4474	GAF-746-02-01	12/14/2016
PRI (TST5878)	FM 4470 / 4474	GAF-746-02-02	12/14/2016
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PRI (TST5878)	FM 4474	GAF-755-02-02	02/02/2017
PRI (TST5878)	FM 4474	GAF-755-02-03	02/02/2017
PRI (TST5878)	FM 4474	GAF-755-02-04	02/02/2017
PRI (TST5878)	FM 4474	GAF-756-02-01	02/28/2017
PRI (TST5878)	FM 4474	GAF-756-02-02	02/28/2017
UL, LLC. (QUA9625)	Quality Control	ML File No. R1306, R9228	01/27/2015
UL, LLC. (QUA9625)	Quality Control	ML File No. R1306, R21864	03/11/2015
UL, LLC. (QUA9625)	Quality Control	Inspection Report, PA	04/12/2016
UL, LLC. (QUA9625)	Quality Control	Inspection Report, NJ	02/09/2016

4. **PRODUCT DESCRIPTION:** 

This Evaluation Report covers GAF Thermoplastic (PVC and PVC/KEE) Roof Systems installed in accordance with GAF published installation instructions and the Limitations / Conditions of Use herein.

- 4.1 EverGuard PVC-50, EverGuard PVC-60 and EverGuard PVC-80 membranes are nominal 50-mil (1.3 mm), 60mil (1.5-mm) or 80-mil (2.0 mm) thick, internally reinforced thermoplastic (PVC) roof covers, available in 81 and 40.5-inch wide rolls. 4.2 EverGuard PVC Smooth membranes are nominal 50-mil (1.2-mm), 60-mil (1.5-mm) or 80-mil (2.0-mm) thick, polyester scrim reinforced, thermoplastic (PVC) single-ply roof membranes, available in 120 and 60-inch wide
- 4.3 EverGuard<sup>®</sup> PVC XK membranes are nominal 50-mil (1.2-mm), 60-mil (1.5-mm) or 80-mil (2.0-mm) thick, synthetic fiber reinforced, thermoplastic (PVC/Elvaloy) single-ply roof membranes, available in 120 and 60-inch
- wide rolls. 4.4 EverGuard<sup>®</sup> PVC membranes are nominal 50-mil (1.2-mm), 60-mil (1.5-mm) or 80-mil (2.0-mm) thick, polyester scrim reinforced, thermoplastic (polyvinyl chloride) single-ply roof membranes, available in 120 and 60-inch
- wide rolls. 4.5 EverGuard<sup>®</sup> PVC KEE membranes are nominal 50-mil (1.2-mm), 60-mil (1.5-mm) or 80-mil (2.0-mm) thick, polyester scrim reinforced, thermoplastic (polyvinyl chloride ketone ethylene ester) single-ply roof membranes,
- available in 120 and 60-inch wide rolls 4.6 EverGuard<sup>®</sup> PVC XK Fleeceback membranes are nominal 60-mil (1.5-mm) or 80-mil (2.0-mm) thick, synthetic fiber reinforced, thermoplastic (PVC/Elvaloy) single-ply roof membrane with a nonwoven polyester felt backing, available in 120 and 76-inch wide rolls.
- 4.7 EverGuard PVC Fleeceback membranes are nominal 50-mil (1.2-mm), 60-mil (1.5-mm) or 80-mil (2.0-mm) thick, polyester scrim reinforced, thermoplastic (polyvinyl chloride) single-ply roof membranes with a  $3.5 \text{ oz/yd}^2$ polyester fleece fabric backing, available in 120 and 60-inch wide rolls.

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