## ROOF REPLACEMENT AT HOWARD W. BLAKE HIGH SCHOOL

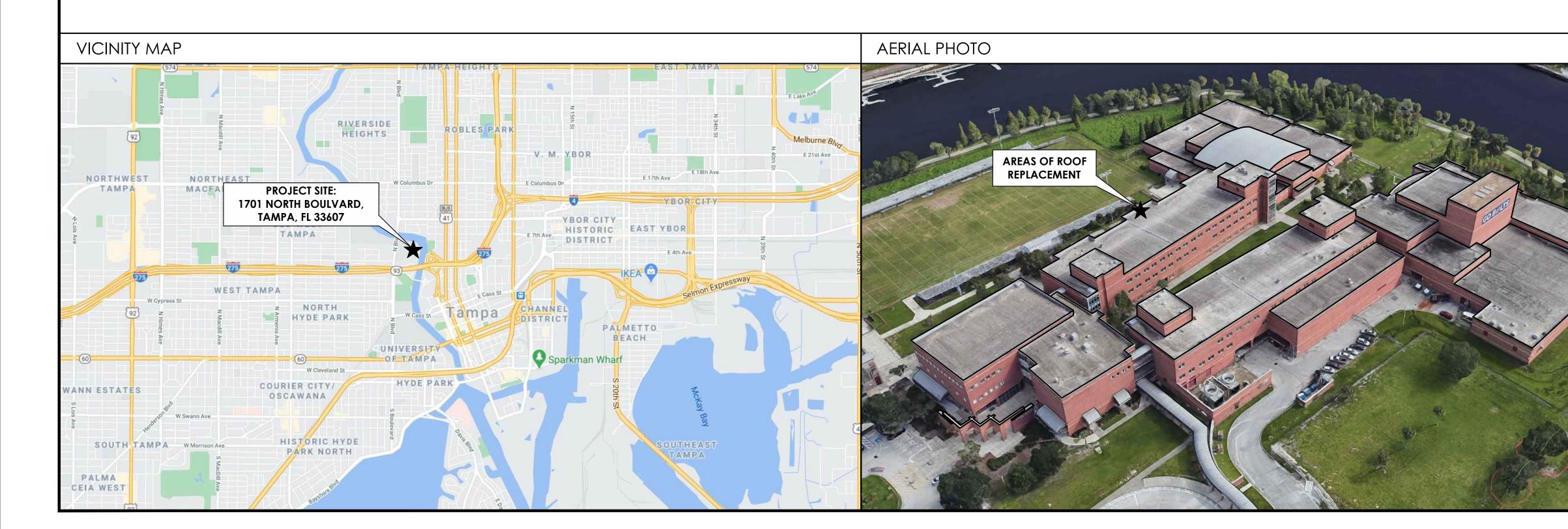
HOWARD W. BLAKE HIGH SCHOOL 1701 North Boulevard, Tampa, Florida 33607

PREPARED FOR:

HILLSBOROUGH COUNTY PUBLIC SCHOOLS
Construction Operation Division
1202 East Palm Avenue
Tampa, Florida 33605-3512

OCTOBER 15, 2021

100% CONSTRUCTION DOCUMENTS



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ROOF REPLACEMENT

AT

HOWARD W. BLAKE HIGH SCHOOL
1701 NORTH BOULEVARD
TAMPA, FLORIDA 33607



#### SCHOOL BOARD MEMBERS

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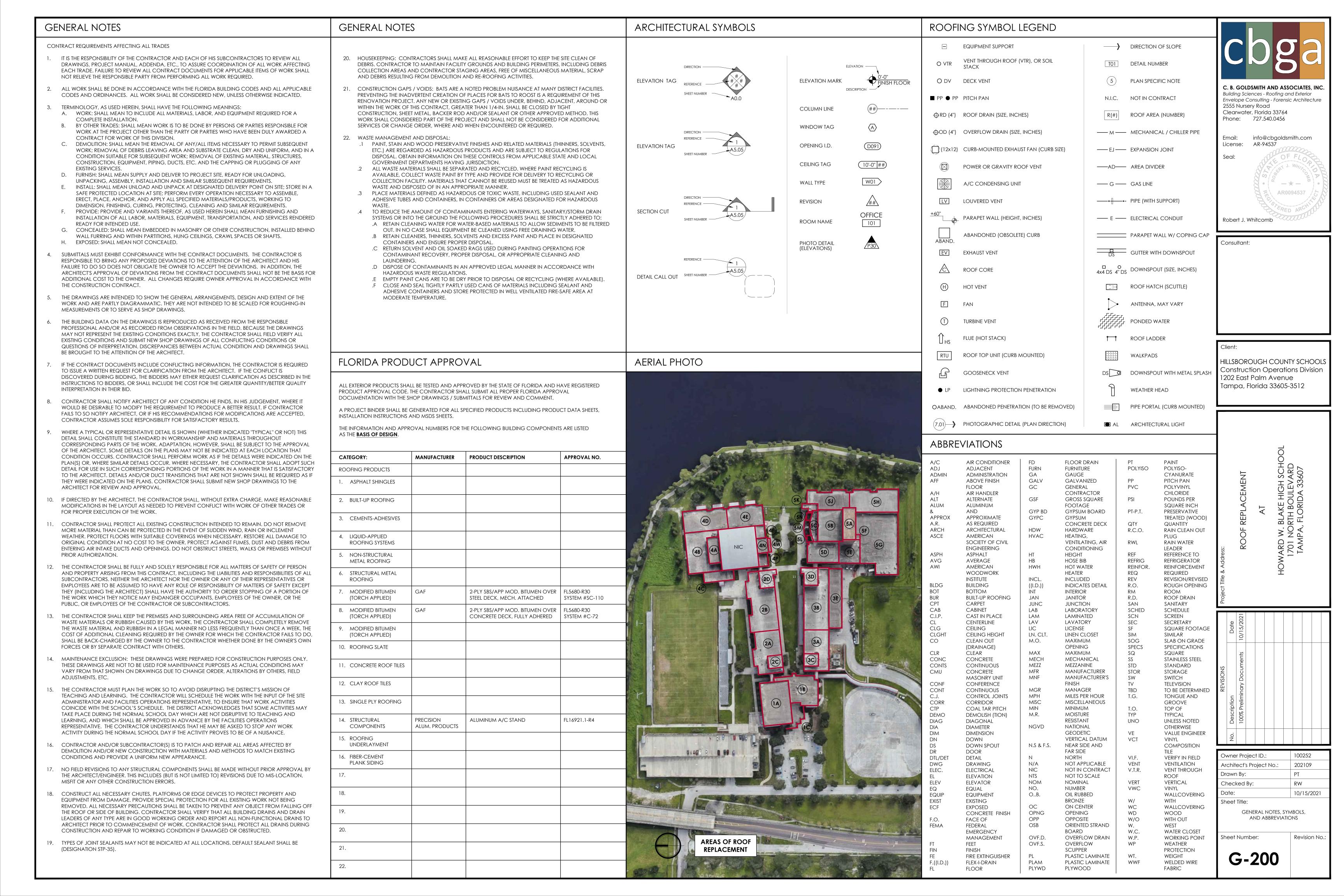
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	REVISIONS	
N	Description	Date
	100% Preliminary Documents	10/15/2021

100252				
202109				
PT				
RW				
10/15/2021				
Revision No.:				

G-100



PROJE	CT DATA	A						BUILDING CODES			S		
JURISDICTIO	N AGENCY:		HILLSBOROUGH COUNTY PUBLIC SCHOOLS CONSTRUCTION OPERATIONS DIVISION 1202 EAST PALM AVENUE. TAMPA, FLORIDA 33605-3512						CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, ORDINANCES AND STATUTES, INCLUDING BUT NOT LIMITED TO:				
			17 (14) 7 (, 1 2 3 (1 2 7 )			BUIL			DING	FLORIDA BUILDING CODE (FBC), (7TH ED., 2020)	1.		
PROJECT AD	T ADDRESS:  HOWARD W. BLAKE HIGH SCHOOL  1701 NORTH BOULEVARD.			EXIST	IING	FLORIDA BUILDING CODE, EXISTING (7TH ED., 2020)	2.						
			TAMPA, FLORIDA	33607				ELEC	TRICAL	NATIONAL ELECTRIC CODE, NFPA 70 (2020), NFPA 70A (2005)			
								PLUM	ABING	FLORIDA BUILDING CODE, PLUMBING (7TH ED., 2020)			
OWNER:			HILLSBOROUGH C CONSTRUCTION (					MEC	HANICAL	FLORIDA BUILDING CODE, MECHANICAL (7TH ED., 2020)			
			1202 EAST PALM A TAMPA, FLORIDA					TESTI	NG	FLORIDA BUILDING CODE, TEST PROTOCOLS (7TH ED., 2020)			
								FIRE		FLORIDA FIRE PREVENTION CODE, 7TH ED. FFPC (2020), 2018 NFPA 1			
ARCHITECT /	/ ROOF CONSU	JLTANT:	C. B. GOLDSMITH 2555 NURSERY RC	DAD	TES, INC.			ENER	GY CONSERVATION	FLORIDA BUILDING CODE, ENERGY CONSERV. (7TH ED., 2020)			
			CLEARWATER, FLC PH. (727) 540-0456					ACC	ESSIBILITY	FLORIDA ACCESSIBILITY CODE (7TH ED., 2020)	1		
USE OR COF © <b>Copyrigi</b>	PY OF ALL OR A	ANY PORTIC Goldsmith	NTS ARE THE SOLE PRONS IS AUTHORIZED A SSOCIATES, AL	BY CONTRACT	ONLY.	AND ASSOCIAT	TES, INC.	ARCHITECT STATEMENT OF COMPLIANCE: "TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE"  GENERAL ROOFING NOTES					
BUILDING CC	DDE:		2020 FBC (7TH ED	D.)				1 DEFINITIONS			1		
ASCE 7 EDITIO	 ON		ASCE 7-16	·				DEFINITIONS  1.1. ROOFING TERMINOLOGY: REFER TO ASTM D1079 AND GLOSSARY IN THE "NRCA ROOFING AND					
ENCLOSURE:			ENCLOSED						WATERPROOFING MANUAL" FOR DEFINITION OF TERMS RELATED TO ROOFING WORK IN THIS SECTION.				
ULTIMATE WIN	ND SPEED (V_ul	lt)	150.0		MPH				1.2. ROOF TEAR-O	FF: REMOVAL OF EXISTING MEMBRANE ROOFING SYSTEM FROM DECK.  ACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE			
NOMINAL WI	IND SPEED (V_c	asd)	116.2		MPH				UNLESS INDICA	ATED TO BE REMOVED AND REINSTALLED.  EMAIN: EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT INDICATED TO BE			
RISK CATEGO	ORY		CATEGORY III						REMOVED.				
INTERNAL PRE	ESSURE COEF.		+/- 0.18					2.	PRE-ROOFING CONI	FERENCE:			
EXPOSURE CA	ATEGORY		С							VNER; ARCHITECT; ROOFING SYSTEM MANUFACTURER'S REPRESENTATIVE; ROOFING CLUDING PROJECT MANAGER, SUPERINTENDENT, AND FOREMAN; AND INSTALLERS			
MEAN ROOF	HEIGHT (h) (z)		WHOSE WORK INTERFACES WITH OR AFFECTS ROOFING, INCLUDING INSTALLERS OF ROOFING ACCESSORIES, ROOF-MOUNTED EQUIPMENT, MECHANICAL AND ELECTRICAL CONTRACT						·	3.			
ROOF SLOPE	Θ (Θ)								2.2. REVIEW METHODS AND PROCEDURES RELATED TO ROOFING SYSTEM TEAR-OFF AND REPLACEMENT				
EDGE STRIP (d	a)		SEE PLANS		MINIM	MUM		INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:  .1 ROOFING PREPARATION, INCLUDING MEMBRANE ROOFING SYSTEM MANUFACTURER'S					
DESIGN WIND	D PRESSURES (A	(SD):							.2 TEMPC	N INSTRUCTIONS. DRARY PROTECTION REQUIREMENTS FOR EXISTING ROOFING SYSTEM THAT IS TO			
EFFECTIVE	WALLS &	ROOFS AT	HEIGHT > 60-FEET (P	PSF)		_			.3 EXISTIN	N DURING AND AFTER INSTALLATION. IG ROOF DRAINS AND ROOF DRAINAGE DURING EACH STAGE OF RE-ROOFING, AND			
AREA (FT²)	ZONE * 1 ( - )	ZONE 2 ( - )	ZONE 3 ( - )	ZONE 4 ( - )	ZONE 5 ( - )	ZONE 4 ( + )	ZONE 5( + )		.4 CONST	DRAIN PLUGGING, PLUG REMOVAL AND REPLACEMENT REQUIREMENTS. IRUCTION SCHEDULE AND AVAILABILITY OF MATERIALS, INSTALLER'S PERSONNEL,			
<10	-55.29	-86.78	· ' '	-37.79	-69.29	+37.79	+37.79	-	.5 EXISTIN	MENT, AND FACILITIES NEEDED TO MAKE PROGRESS AND AVOID DELAYS. IG DECK REMOVAL PROCEDURES AND OWNER NOTIFICATIONS.			
<20	-52.19	-82.44		-37.79	-69.29	+37.79	+37.79	-	FOR RE				
<50	-48.09	-76.71		-35.80	-61.32	+34.80	+34.80	-	.8 BASE F	TURAL LOADING LIMITATIONS OF DECK DURING RE-ROOFING. LASHINGS, SPECIAL ROOFING DETAILS, DRAINAGE, PENETRATIONS, EQUIPMENT			
<100	-44.99	-72.37		-34.29	-55.29	+32.54	+32.54	CURBS, AND CONDITION OF OTHER CONSTRUCTION THAT WILL AFFECT RE-ROOFING.  .9 HVAC SHUTDOWN AND SEALING OF AIR INTAKES.					
			EIGHT ≤ 60-FEET (PSF		33.27	52.0	02.0	.10 SHUTDOWN OF FIRE-SUPPRESSION, -PROTEC .11 GOVERNING REGULATIONS AND REQUIREM		OWN OF FIRE-SUPPRESSION, -PROTECTION, AND -ALARM AND -DETECTION SYSTEMS. RNING REGULATIONS AND REQUIREMENTS FOR INSURANCE AND CERTIFICATES, IF			
EFFECTIVE AREA	ZONE	ZONE	<u> </u>	ZONE	ZONE			1		G CONDITIONS THAT MAY REQUIRE NOTIFICATION OF ARCHITECT BEFORE			
(FT²)	1 (-)	1' ( - )	2 (-)	3 (-)	ALL (+)					EEDING.	4.		
<10	-54.25	-31.16	-71.56	-97.53	+13.85			3.	DURING ANY RE-ROO SURFACE TO ATTACK	OFING, DETERIORATED DECKING IS TO BE REPLACED TO PROVIDE A FIRM AND STABLE I ROOF SYSTEM.			
<20	-50.67	-31.16	-66.96	-88.33	+12.98			4.		CAUSE DAMAGE DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE			
<50	-45.94	-31.16	-60.88	-76.16	+11.83			_	MUST BE TAKEN AT E	EPAIR AND/OR REPLACE, INCLUDING ANY ITEMS INSIDE THE BUILDINGS. EXTRA CARE ND OF EACH DAYS WORK TO INSTALL WATER TIGHT CUTOFFS AND NIGHT SEALS.			
<100	-42.36	-31.16	-56.28	-66.96	+10.96			CUTOFFS MUST BE COMPLETELY REMOVED PRIOR TO THE RESUMPTION OF ROOFING.					

ALL ROOFING MATERIALS SHALL BE KEPT DRY. COVER ALL MATERIALS WITH BREATHABLE TARP TYPE

COVER. MANUFACTURER'S PROTECTIVE WRAP WILL BE ALLOWED TO REMAIN, IN ADDITION TO THE

PROHIBITED. FOLLOW RECOMMENDATIONS OF PIMA TECHNICAL BULLETIN #109 FOR CARE AND

ROOF COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE

ALL LAYERS OF ROOFING MEMBRANE SHALL BE LAID FREE OF WRINKLES, CREASES, FISHMOUTHS AND

THE APPLICATOR. SUFFICIENT PRESSURE SHALL BE EXERTED ON THE ROLL DURING APPLICATION TO

BASE FLASHINGS ARE REQUIRED TO EXTEND A MINIMUM OF 8-INCHES ABOVE THE FINISHED ROOF FOR

ROOF MOUNTED EQUIPMENT, EXPANSION JOINTS, ETC. VENT STACK PIPES LESS THAN 6-INCHES HIGH

FLASHINGS BE A MINIMUM OF 8-INCHES ABOVE THE FINISHED ROOF SYSTEM. COMPARE THE INSULATION

8-INCHES CAN BE PROVIDED. RAISING OF EXISTING CURBS CAN BE BY INSTALLING WOOD BLOCKING

10. LIMIT CONSTRUCTION LOADS ON ROOF TO 100 PSF ROOFTOP EQUIPMENT WHEEL LOADS AND 30 PSF FOR

12. THE CONTRACTOR SHALL REPLACE ALL STAINED CEILING TILE IN ALL BUILDINGS OF THIS CONTRACT. THE

PROJECT. ALL DAMAGED CEILING TILES ARE TO BE REPLACED PRIOR TO CALLING FOR SUBSTANTIAL

13. ALL WOOD BLOCKING AND SHEET METAL FABRICATION AND INSTALLATION SHALL COMPLY WITH

14. DETAILS AND SHEET METAL TRANSITIONS THAT ARE NOT SHOWN SHALL BE REQUIRED AS IF THEY WERE

INDICATED ON THE PLANS. CONTRACTOR SHALL SUBMIT NEW OR PROPOSED SHOP DRAWINGS TO

15. CONTINUOUS INSULATION INSTALLED ENTIRELY ABOVE THE ROOF DECK SHALL BE MINIMUM R-25ci FOR

16. CONTRACTOR SHALL EMPLOY ONLY NRCA PRO-CERTIFIED INSTALLERS AND/OR CERTA-CERTIFIED

CLIMATE ZONE 2A. NOTE: CONTINUOUS INSULATION (CI) IS DEFINED AS INSULATING MATERIAL THAT IS

APPLICATORS TO OPERATE TORCHES WHEN AN OPEN FLAME WILL CONTACT ANY PART OF A ROOF.

CONTINUOUS ACROSS ALL STRUCTURAL MEMBERS WITHOUT THERMAL BRIDGES OTHER THAN FASTENERS AND SERVICE OPENINGS. IT IS INSTALLED ON THE INTERIOR OR EXTERIOR OR IS INTEGRAL TO ANY OPAQUE

CONTRACTOR SHALL VERIFY THE NUMBER OF STAINED CEILING TILE PRIOR TO THE START OF WORK ON THE

ANSI/SPRI ES-1 AND/OR RAS 111. ANCHOR/RESECURE ALL WOOD BLOCKING AS NECESSARY TO COMPLY

UNDER THE ROOF CURBS OR BY INSTALLING NEW WOOD CURB EXTENSIONS, AS REQUIRED.

11. VERIFY THAT ALL ROOF DRAINS AND DRAIN LEADERS ARE CLEAR PRIOR TO START OF WORK.

SHOP DRAWINGS WITH ALL THE EXISTING ROOF CURBS TO DETERMINE WHAT THE NEW CURB HEIGHTS WILL BE. CONTRACTOR TO RAISE EACH ROOF CURB SO THE MINIMUM REQUIRED BASE FLASHING HEIGHT OF

IT IS THE INTENT OF THESE DOCUMENTS THAT ALL MECHANICAL CURBS, ROOF CURBS AND/OR BASE

SHALL BE LAID AT RIGHT ANGLES TO THE SLOPE OF THE DECK. MEMBRANE SHALL BE LAID DIRECTLY BEHIND

FLORIDA BUILDING CODE, CHAPTER 15 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

HANDLING OF POLYISO ROOF INSULATION.

PREVENT VOIDS AND AIR POCKETS.

UNIFORMLY DISTRIBUTED LOADS.

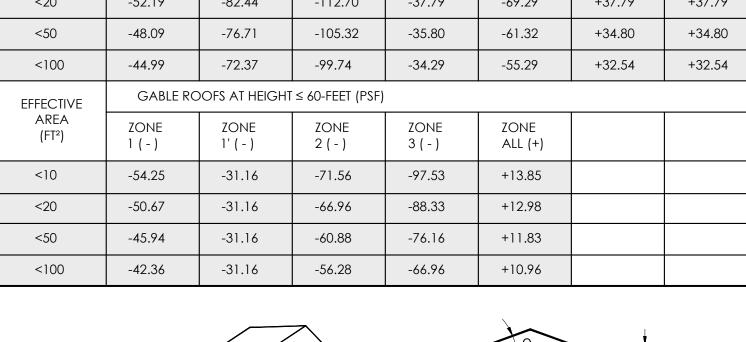
WITH THE LOAD REQUIREMENTS.

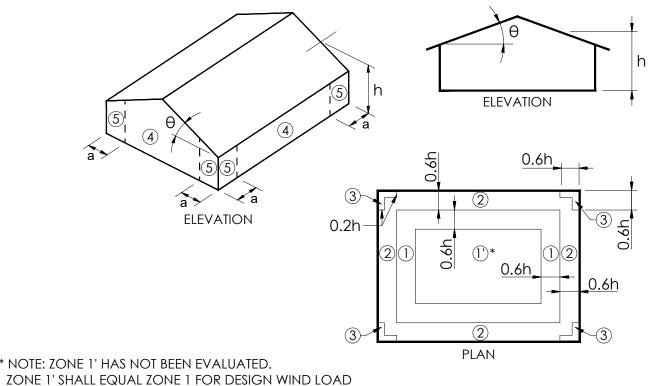
ARCHITECT FOR REVIEW AND APPROVAL.

SURFACE OF THE BUILDING ENVELOPE.

SHALL BE EXTENDED.

BREATHABLE TARP. THE USE OF VISQUEEN TO COVER ROOFING MATERIALS STORED ON SITE IS STRICTLY





#### SCOPE OF ROOFING WORK

THE ROOFING WORK IN THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING BRIEF OUTLINE (PRESENTED HERE AS A GUIDE ONLY):

- SCHOOL HOURS WHEN CLASSES ARE IN SESSION ARE AS FOLLOWS:

1.1 MONDAY-FRIDAY: (HOURS TO BE DETERMINED)

- **WORK RESTRICTIONS:** 
  - 2.1 OCCUPIED BUILDINGS / ACTIVE SCHOOL DATES (DATE TO BE DETERMINED): WORK HOURS ARE RESTRICTED TO NON-HOLIDAY WEEKDAYS BETWEEN 3:30PM AND 6:30AM, MONDAY- FRIDAY. WORK MAY BE PERFORMED ON WEEKENDS AND HOLIDAYS ON THE ROOF
    - AND SITE WITHOUT TIME RESTRICTIONS. ACCESS TO BUILDINGS INTERIORS FOR PLUMBING, ELECTRICAL, MECHANICAL AND/OR STRUCTURAL WORK WILL BE ALLOWED BETWEEN 3:00PM AND 8:30PM, MONDAY-FRIDAY. WORKERS INSIDE OF BUILDINGS ARE TO BE DIRECTLY AND CONSTANTLY SUPERVISED BY THE CONSTRUCTION SUPERINTENDENT. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR REPORTED MISSING AND/OR DAMAGED ITEMS OUTSIDE OF THE SUPERVISED CONSTRUCTION AREA.
    - WORKERS ARE TO DISPLAY JESSICA LUNSFORD BADGES WHILE STUDENTS ARE ON CAMPUS. ALL DISTURBED AREAS OF THE CAMPUS ARE TO BE RESTORED FOR USE BY STUDENTS PRIOR TO
    - 6:30AM ON THE NEXT SCHOOL DAY. WORK MAY BE PERFORMED ON WEEKENDS AND HOLIDAYS INSIDE THE BUILDING WITH 72 HOUR ADVANCE NOTICE AND REQUIRES CUSTODIAL COORDINATION AND COMPENSATION FOR TIME.

  - 2.2 SUMMER MONTHS (DATES TO BE DETERMINED): WORK MANY BE PERFORMED ON WEEKDAYS, WEEKENDS, AND HOLIDAYS ON THE ROOF AND SITE WITHOUT RESTRICTIONS.
    - ACCESS TO BUILDING INTERIORS FOR PLUMBING, ELECTRICAL, MECHANICAL AND/OR STRUCTURAL WORK WILL BE PROVIDED FROM 7:00AM UNTIL 5:00PM, MONDAY-FRIDAY. WORKERS INSIDE OF BUILDINGS ARE TO BE DIRECTLY AND CONSTANTLY SUPERVISED BY THE CONSTRUCTION SUPERINTENDENT, CONTRACTOR SHALL NOT BE RESPONSIBLE FOR REPORTED MISSING AND/OR DAMAGED ITEMS OUTSIDE OF THE SUPERVISED CONSTRUCTION AREA.
    - .3 THE SCHOOL WILL NOT BE CLOSED TO STUDENTS DURING THIS TIME. WORKERS ARE TO DISPLAY JESSICA LUNSFORD BADGES WHILE STUDENTS ARE ON CAMPUS.
    - .4 ALL PLUMBING, ELECTRICAL, AND/OR MECHANICAL WORK SHALL BE SUBSTANTIALLY COMPLETE DURING THIS TIME PERIOD.
  - 2.3 WORK MAY NOT BE PERFORMED, NOR MAY MATERIALS BE DELIVERED, EXCEPT DURING TIMES WHEN THE CONSTRUCTION SUPERINTENDENT IS ON SITE.
  - 2.4 THE CAP SHEET AND BASE FLASHING INSTALLATION MUST BE PERFORMED DURING DAYLIGHT HOURS BETWEEN 10:00AM TO 8:00PM (OR SUNSET). TORCHING OF ROOFING MATERIALS SHALL NOT BE
  - 2.5 THE BIDDERS, BY SUBMITTING A BID, AGREE TO RESTRICT THEIR WORK AS NOTED ABOVE. THE WORK HOURS MAY NOT BE ALTERED WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER. WORK HOURS WILL NOT BE ALTERED FOR THE CONTRACTOR'S CONVENIENCE.
- 3. SELECTIVE DEMOLITION REFER TO SECTION 02 41 20:

PERFORMED OVER OCCUPIED SPACE.

- 3.1 PATCH ALL DETERIORATED, RUSTED, OR DAMAGED DECK COMPONENTS (UNIT COST BASIS).
- 3.2 REMOVE THE EXISTING MATERIALS IN PREPARATION FOR A NEW ROOFING SYSTEM.
- 3.3 PROVIDE PHYSICAL PROTECTION TO ALL INTERIOR SPACES DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL ALSO PROVIDE NIGHTLY CLEANING TO RETURN SPACES TO USE THE FOLLOWING MORNING.
- 3.4 FLASHING, SHEET METAL AND ACCESSORIES: REMOVE ALL EXISTING FLASHING AND COUNTER FLASHING AS INDICATED ON THE DRAWINGS, ETC. - SCRAP. REMOVE ALL EXISTING ACCESSORIES ON ROOF TO BE REUSED - CLEAN THOROUGHLY AND SAVE FOR REUSE. DISCONNECT/REMOVE ALL ITEMS INDICATED
- 3.5 REMOVE ABANDONED ROOF ACCESSORIES AND REPAIR ALL ABANDONED DECK OPENINGS.
- 3.6 CUT EXISTING PARAPET WALLS TO ENLARGE EXISTING SECONDARY SCUPPER OPENINGS.
- 3.7 DISPOSE OF SCRAP LEGALLY.
- STORE AND PROTECT REUSABLE MATERIALS, SPECIALTIES AND ACCESSORIES INTENDED TO BE
- LANDSCAPING:
- 4.1 PHOTOGRAPHICALLY DOCUMENT ALL LANDSCAPING AROUND PERIMETER OF BUILDING;
- 4.2 UNLESS OTHERWISE INDICATED, PRUNING AND/OR TRIMMING OF EXISTING TREES SHALL BE BY CONTRACTOR. CONTRACTOR TO NOTIFY OWNER WHERE TREES AND SHRUBS CONFLICT WITH THE WORK, PRIOR TO ANY PRUNING AND/OR TRIMMING.
- 4.3 CONTRACTOR SHALL TEST IRRIGATION SYSTEM PRIOR TO THE START OF CONSTRUCTION, AND PROVIDE WRITTEN DOCUMENTATION OF ALL DEFICIENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE EXISTING IRRIGATION SYSTEMS. CONTRACTOR SHALL REPLACE ALL DAMAGED COMPONENTS AS REQUIRED TO BRING SYSTEM BACK TO ORIGINAL CONDITION AFTER COMPLETION OF THE WORK. VERIFY SYSTEM BEFORE THE START AND AFTER COMPLETION OF WORK;
- 4.4 INSTALL NEW SOD TO REPLACE THAT WHICH WAS DESTROYED DURING THE WORK.
- CEMENTITIOUS DECK REPAIRS REFER TO SECTION 03 51 00:
- 5.1 VERIFY CONDITION OF EXISTING LIGHT WEIGHT CONCRETE DECK AND REPAIR/REPLACE ALL DETERIORATED, FRACTURED, AND LOOSE CONCRETE. PROVIDE PHOTOGRAPHIC DOCUMENTATION OF DETERIORATED CONCRETE BEFORE AND AFTER REPAIRS AT EACH LOCATION AND MARK ALL REPAIR LOCATIONS ON ROOF PLANS. UNIT COSTS FOR CEMENTITIOUS REPAIRS WILL NOT BE AUTHORIZED WITHOUT PROPER DOCUMENTATION.
- METAL DECK REPAIRS REFER TO SECTION 05 31 40:
  - 6.1 VERIFY CONDITION OF EXISTING METAL DECK AND REPAIR/REPLACE ALL DETERIORATED DECKING COMPONENTS (TO MATCH). PROVIDE PHOTOGRAPHIC DOCUMENTATION OF DETERIORATED ROOF DECK BEFORE AND AFTER REPAIRS AT EACH LOCATION AND MARK ALL REPAIR LOCATIONS ON ROOF PLANS. UNIT COSTS FOR DECK REPAIRS WILL NOT BE AUTHORIZED WITHOUT PROPER DOCUMENTATION.
- 7. ROUGH CARPENTRY REFER TO SECTION 06 10 00:
- 7.1 VERIFY CONDITION OF EXISTING WOOD PLANK DECK AND REPAIR/REPLACE ALL DETERIORATED DECKING COMPONENTS (TO MATCH). RE-ANCHOR ALL PERIMETER WOOD NAILERS/BLOCKING.
- 7.2 VERIFY EXISTING AND PROVIDE NEW PRESERVATIVE TREATED LUMBER AND PLYWOOD TO MATCH AND REPLACE ALL DETERIORATED PARTS, PIECES AND SHAPES.
- 7.3 PROVIDE NEW PRESERVATIVE TREATED PLYWOOD, NAILERS, BLOCKING, SHIMS, PLATES AND CURBS AS REQUIRED TO COMPLETE AND/OR CORRECT THE WORK AND TO CONFORM TO REQUIREMENTS OF ALL NEW EXTERIOR DETAILS.
- 7.4 BACKUP REQUIRED. PROVIDE PHOTOGRAPHIC DOCUMENTATION OF DETERIORATED WOOD COMPONENTS BEFORE AND AFTER REPAIRS AT EACH LOCATION AND MARK ALL REPAIR LOCATIONS ON ROOF PLANS. UNIT COSTS WORK TO REPLACE WOOD WILL NOT BE AUTHORIZED WITHOUT PROPER DOCUMENTATION.
- 8. ROOF AND DECK INSULATION REFER TO SECTION 07 22 00:
- 8.1 FURNISH AND INSTALL NEW RIGID AND TAPERED INSULATION.
- 8.2 PROVIDE NEW SPECIFIED FIRE BARRIER (COVER) BOARDS.
- 8.3 PROVIDE NEW TAPERED CRICKETS, SUMPS, CANTS AND/OR EDGE STRIPS.
- 8.4 PROVIDE NEW SPECIFIED NON-CORROSIVE FASTENERS.
- MODIFIED BITUMEN ROOFING MEMBRANE REFER TO SECTION 07 52 16.2:
- 9.1 FURNISH AND INSTALL NEW MULTIPLE PLY MODIFIED BITUMEN ROOFING SYSTEM WITH 2-PLY BASE FLASHINGS AT DESIGNATED ROOF AREAS.

- 9.2 CONTRACTOR SHALL EMPLOY ONLY NRCA PRO-CERTIFIED INSTALLERS AND/OR CERTA-CERTIFIED
- 9.3 PROVIDE NEW FOIL-FACED ALUMINUM BASE FLASHING AT LOCATIONS INDICATED.
- 9.4 PROVIDE ALL NECESSARY ACCESSORY COMPONENTS TO ENSURE A WEATHERTIGHT INSTALLATION.
- 9.5 IF THE CONTRACTOR'S PROPOSED ROOFING MANUFACTURER DOES NOT HAVE TESTING FOR THE SPECIFIED ROOF DECKS, THEN SITE SPECIFIC TESTING (INCLUDING PULL TESTS), AND ENGINEERING SHALL BE REQUIRED.

APPLICATORS TO OPERATE TORCHES WHEN AN OPEN FLAME WILL CONTACT ANY PART OF A ROOF.

- 9.6 PROVIDE FIVE (5) YEAR CONTRACTOR WARRANTY, INCLUDED IN THESE DOCUMENTS.
- 9.7 PROVIDE TWENTY (20) YEAR MANUFACTURER'S NDL WEATHERTIGHTNESS WARRANTY, INCLUDED IN
- 10. FLASHING, SHEET METAL AND ACCESSORIES REFER TO SECTION 07 60 00:

SCOPE OF ROOFING WORK, CONT'D

- 10.1 PROVIDE NEW METAL FLASHINGS AND COUNTER FLASHINGS, AND PARAPET COPINGS, AND SEALANTS PER TYPICAL DETAILS. FIELD TEMPLATE AND SHOP FABRICATE METAL FLASHINGS AS MUCH AS POSSIBLE.
- 10.2 PROVIDE NEW REINFORCED LIQUID FLASHING SYSTEM TO TRANSITION DETAILS, WHERE INDICATED. EMBED MATCHING GRANULES IN TOP COAT OF ALL LIQUID FLASHING DETAILS.
- 10.3 VENTILATION UNITS SUPPORT CURBS: INSTALL NEW EF CURBS AS INDICATED WITH NEW PT WOOD FRAMING OR PRE-MANUFACTURED NAILERS TO 12-IN. ABOVE TOP OF FINISHED ROOFING (TYPICAL). EXTEND ELECTRICAL, AND MECHANICAL DUCTS AS REQUIRED. INSTALL NEW SKIRT FLASHING, PER TYPICAL DETAIL.
- 10.4 ACCESSORIES: INSTALL NEW VTR FLASHINGS (WITH PIPE EXTENSIONS, WHERE REQUIRED), ROOF-TO-ROOF LADDERS, EDGE PROTECTION GUARD RAILS, THROUGH-WALL SECONDARY SCUPPERS, METAL COPINGS, METAL FASCIA, SURFACE-MOUNTED COUNTER FLASHINGS, SKIRT METAL FLASHINGS, CONDENSATE/ELECTRICAL PIPE SUPPORTS, ETC., PER SPECIFICATIONS AND TYPICAL DETAILS.
- 10.5 PROVIDE NEW ALUMINUM EQUIPMENT SUPPORTS (PRECISION ALUMINUM PRODUCTS, ALUMA-STAND, FL16921-R3), WHERE INDICATED.
- 10.6 UNLESS OTHERWISE INDICATED, THE EXISTING ROOF DRAINS ARE TO REMAIN. CLEAN EXISTING DRAIN BODY/BOWL AND PROVIDE NEW CAST IRON STRAINER, CLAMPING RING, ADJUSTABLE EXTENSIONS AND STAINLESS STEEL HARDWARE (I.E. BOLT, WASHER AND LOCK WASHER). PAINT ALL CLAMPING RINGS AND STRAINERS.
- 10.7 INSPECT HORIZONTAL PIPE LEADERS BELOW ALL ROOF DRAINS ENSURING BRACED HANGER INSTALLATION HAS BEEN PROVIDED WITHIN 2-FEET OF EACH DRAIN. VERIFY PRESENCE OF ASPHALT AND/OR PITCH INSIDE EXISTING PIPE LEADERS. PROVIDE REPORT INDICATING THE LOCATION WHERE EXISTING LEADERS ARE CLOGGED WITH PITCH OR HAVE RESTRICTED FLOW.
- 10.8 FLOOD TEST ALL NEW AND EXISTING ROOF DRAINS AND DRAIN CONNECTIONS.
- 10.9 PROVIDE NEW SPECIFIED NON-CORROSIVE FASTENERS, WHERE REMOVED OR REPLACED. UNLESS OTHERWISE INDICATED, PROVIDED ONLY STAINLESS STEEL FASTENERS. GALVANIZED ANCHORS AND/OR FASTENERS ARE NOT ACCEPTABLE.

#### MISCELLANEOUS:

- 11.1 REPAIR ALL EXISTING SIDEWALKS DAMAGED DURING COURSE OF WORK. THE BURDEN SHALL BE ON THE CONTRACTOR TO DEMONSTRATE IF THE SIDEWALKS WERE DAMAGED PRIOR TO START OF WORK.
- 11.2 PROVIDE TEMPORARY SCAFFOLDING STAIR TOWERS FOR ROOF ACCESS BY OWNER AT APPROVED AND/OR DESIGNATED LOCATIONS. STAIR TOWERS SHALL BE COMPRISED OF SCAFFOLD COMPONENTS AND WHICH CONTAINS INTERNAL STAIRWAY UNITS AND REST PLATFORMS. STAIR TOWERS SHALL BE CONSTRUCTED WITH MINIMUM 1/2-IN. CDX PLYWOOD SECURED AROUND THE BASE OF STAIR WITH A LOCKABLE GATE TO LIMIT GROUND ACCESS. ALL SCAFFOLDS SHALL BE ERECTED, MODIFIED AND DISMANTLED ONLY UNDER THE SUPERVISION OF A COMPETENT PERSON, ERECTION, USE, MAINTENANCE AND DISASSEMBLY MUST CONFORM TO CURRENT MANUFACTURER'S INSTRUCTIONS AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- 11.3 PROVIDE VISUAL SURVEY OF EXISTING CONDITIONS PRIOR TO START OF THE WORK. DOCUMENT WHERE FIREPROOFING IS MISSING FROM UNDERSIDE OF ROOF DECK. UPON COMPLETION OF EACH ROOF SECTION, SURVEY UNDERSIDE OF ROOF DECK AND REPLACE EXISTING FIREPROOFING DISPLACED FROM MECHANICAL ATTACHMENT OF INSULATION, PER UNIT COST BASIS.
- 11.4 ASBESTOS CONTAINING MATERIAL (ACM) ABATEMENT: LABORATORY RESULTS INDICATE THAT NO ASBESTOS CONTAINING MATERIALS WERE DETECTED. REFER TO APPENDIX A FOR SUMMARY OF
- 11.5 LEAD-BASED PAINT ABATEMENT: NO LEAD-BASED PAINT MATERIALS WERE DETECTED. REFER TO APPENDIX A FOR SUMMARY OF FINDINGS.
- 11.6 CONTRACTOR TO ASSIST ARCHITECT WITH ROOF ACCESS AFTER HOURS TO PERFORM A POST INSTALLATION AUDIT; PERFORM ROOF CUTS TO VERIFY ROOF CONDITIONS IDENTIFIED DURING THE SURVEY; AND REPAIR ROOF UPON COMPLETION.

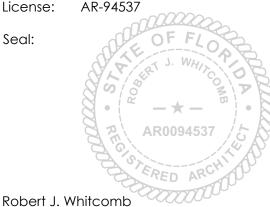
#### 11.7 SPECIAL CONDITIONS:

- .1 ADDITIONAL CONTRACT TIME SHALL BE ALLOTTED FOR "RAIN, TEMPERATURE OR WIND DAYS" WHEN PROPERLY DOCUMENTED. REQUESTS FOR ADDITIONAL CONTRACT TIME SHALL BE REQUESTED MONTHLY.
- .2 WIRELESS WEATHER STATION: FOR PURPOSES OF VERIFICATION AND DOCUMENTATION OF THE WEATHER CONDITIONS AT THE PROJECT SITE, CONTRACTOR SHALL PROVIDE A NEW PORTABLE WIRELESS WEATHER MONITORING STATION - REFER TO SECTION 01 45 00. DELIVER TO OWNER UPON COMPLETION OF WORK.
- .3 ON-SITE OFFICE FACILITIES: NOT REQUIRED.
- .4 PROJECT PHOTOGRAPHS: REQUIRED. (1) DIGITAL PHOTOGRAPHS: PROVIDE DIGITAL PHOTOGRAPHS PER SECTION 01 32 33.
  - AERIAL PHOTOGRAPHS: CONTRACTOR SHALL PROVIDE AERIAL PHOTOGRAPHS OF THE CONSTRUCTION SITE. PHOTOGRAPHS SHALL BE TAKEN ON A MONTHLY BASIS AND SHALL CONSIST OF (3) DIFFERENT VIEWS. PROVIDE (3) MINIMUM 8-IN. X 10-IN. GLOSS PRINTS OF FINAL AERIAL IMAGES UPON FINAL COMPLETION, INCLUDING A CD WITH DIGITAL COPY OF ORIGINAL (HIGH RESOLUTION) PRINT IMAGES WITH COPYRIGHT RELEASE. REFER TO SECTION 01 32 33.
- .5 PROVIDE FIVE (5) YEAR CONTRACTOR'S GUARANTEE FOR ALL WORK. WARRANTIES OF LONGER DURATIONS ARE INCLUDED IN OTHER SECTIONS.
- 11.8 PROVIDE APPROPRIATE FALL PROTECTION, WARNING LINES, COVERS, PLATFORMS, GUARDRAILS, AND OTHER PROTECTION EQUIPMENT AS NECESSARY TO ACCESS AND PERFORM THE WORK PER OSHA REQUIREMENTS.
- 11.9 PROTECT PUBLIC AND PRIVATE PROPERTY FROM CONSEQUENTIAL DAMAGE FROM THE WORK OF THIS
- 11.10 CLEAN UP AND RESTORE ALL AREAS AFFECTED BY CONSTRUCTION. THIS INCLUDES REPAIRING PAVEMENT, INSTALLING SOD IN LAWN AREAS THAT ARE AFFECTED BY CONSTRUCTION, REPLACING DAMAGED LANDSCAPING, TOUCH UP DAMAGED PAINTED SURFACES, AND SWEEPING ALL PAVED AREAS WITH A MAGNETIZED SWEEPER.



C. B. GOLDSMITH AND ASSOCIATES, INC. Building Sciences - Roofing and Exterior Envelope Consulting - Forensic Architecture 2555 Nursery Road Clearwater, Florida 33764 Phone: 727.540.0456

Email: info@cbgoldsmith.com License:

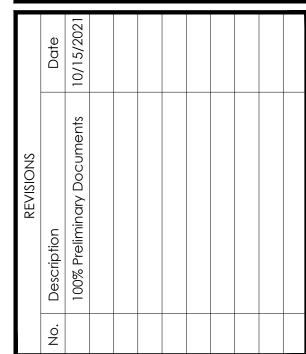


Consultant:

Seal:

Client:

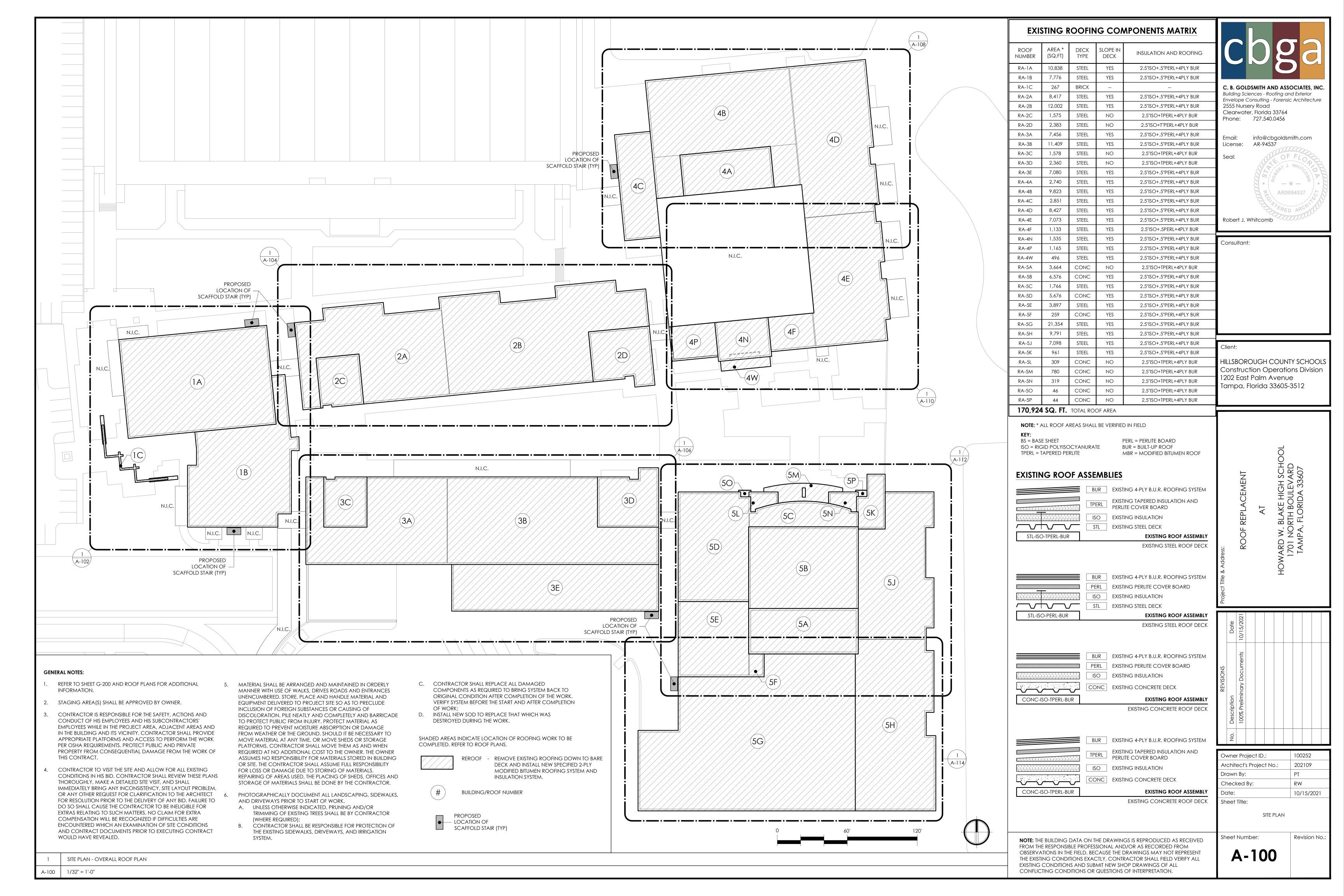
HILLSBOROUGH COUNTY SCHOOLS Construction Operations Division 202 East Palm Avenue ampa, Florida 33605-3512



100252 Owner Project ID.: 202109 Architect's Project No.: Drawn By: RW Checked By: 10/15/2021 Sheet Title: PROJECT DATA, GENERAL ROOFING NOTES, SCOPE OF ROOFING WORK

Revision No.:

Sheet Number:



#### **PLUMBING NOTES:** 1. ROOF DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE INSIDE OPENING FOR THE ROOF DRAIN SHALL NOT BE OBSTRUCTED BY THE ROOFING MEMBRANE MATERIAL. 2. ROOF DRAINS SHALL CONFORM TO ASME A112.6.4 OR ASME A112.3.1. THE PUBLISHED ROOF DRAIN FLOW RATE, BASED ON THE HEAD OF WATER ABOVE THE ROOF DRAIN. THE FLOW RATE USED FOR SIZING THE STORM DRAINAGE PIPING SHALL BE BASED ON THE MAXIMUM ANTICIPATED PONDING AT THE ROOF DRAIN. 4. IN DETERMINING THE MAXIMUM POSSIBLE DEPTH OF WATER, ALL PRIMARY ROOF DRAINAGE MEANS SHALL BE ASSUMED TO BE BLOCKED. THE MAXIMUM POSSIBLE DEPTH OF WATER ON THE ROOF SHALL INCLUDE THE HEIGHT OF THE WATER REQUIRED ABOVE THE INLET OF THE SECONDARY ROOF DRAINAGE MEANS TO ACHIEVE THE REQUIRED FLOW RATE OF THE SECONDARY DRAINAGE MEANS TO ACCOMMODATE THE DESIGN RAINFALL RATE. 5. DESIGN RAINFALL RATE FOR THE PROJECT LOCATION IS 4.5-IN/HR. RAINFALL RATE IS BASED ON THE 100-YEAR HOURLY RAINFALL INDICATED IN FBC-PLUMBING, FIGURE 1106.1. 6. SIZE OF STORM DRAIN PIPING. VERTICAL AND HORIZONTAL STORM DRAIN PIPING SHALL BE SIZED BASED ON THE FLOW RATE THROUGH THE ROOF DRAIN. THE FLOW RATE IN STORM DRAIN PIPING SHALL NOT EXCEED THAT SPECIFIED IN THE FOLLOWING TABLE. 6" RD RA-1A ~10,838 SF 50'-00" AG RA-1B ~7,776 SF 45'-0" AG ~267 SF \_\_19'-4" AG 1B-3 4" RD 6x15 SCU 6x15 SCU SCU

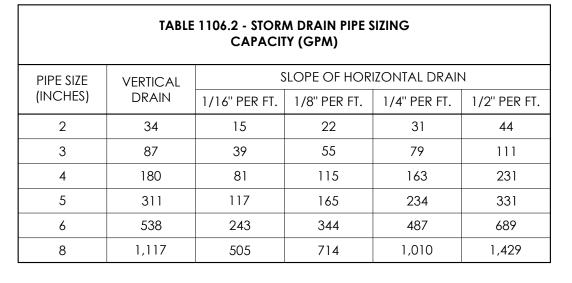


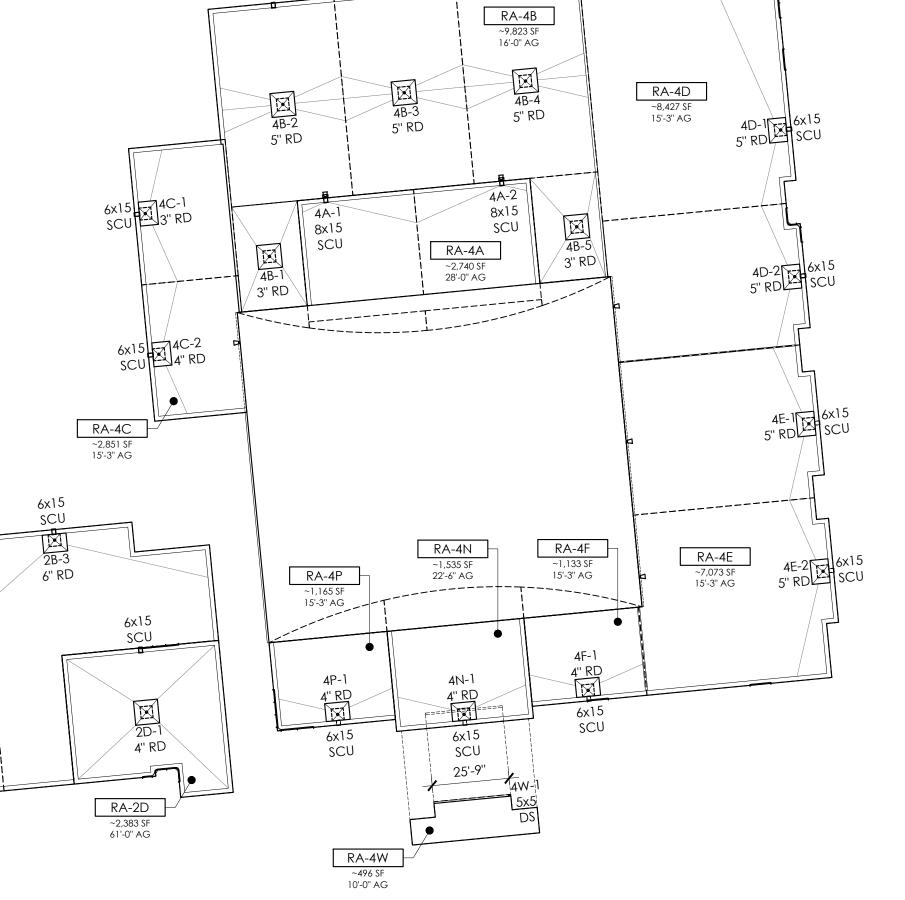
TABLE 1106.3 VERTICAL LEADER SIZING						
SIZE OF LEADER (INCHES)	CAPACITY (GPM)					
2	30					
3	92					
4	192					
5	360					
6	563					
8	1,208					

4" RD

RA-2A

4" RD

RA-2C ~1,575 SF 61'-00" AG



RA-5N ~319 SF 18'-6" AG

4" RD

6x15 SCU RA-5P ~44 SF 12'-6" AG

RA-5K ~961 SF

34'-0" AG

RA-5J ~7,098 SF 27'-8" AG

RA-5A

\_\_\_\_\_

5J-2 6x15 4" RD SCU

5H-2 6x15 6" RD SCU

RA-5L

18'-6" AG

RA-5B

RA-5M

RA-5O

RA-5C ~1,766 SF 41'-8" AG

RA-5D ~5,676 SF 42'-8" AG

RAL5E ~3,897 SF

6x15

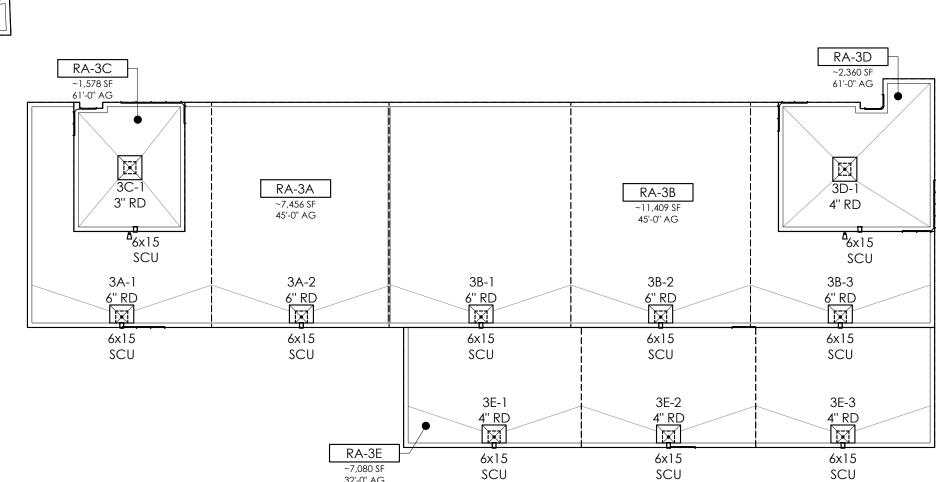
SCU

SCU

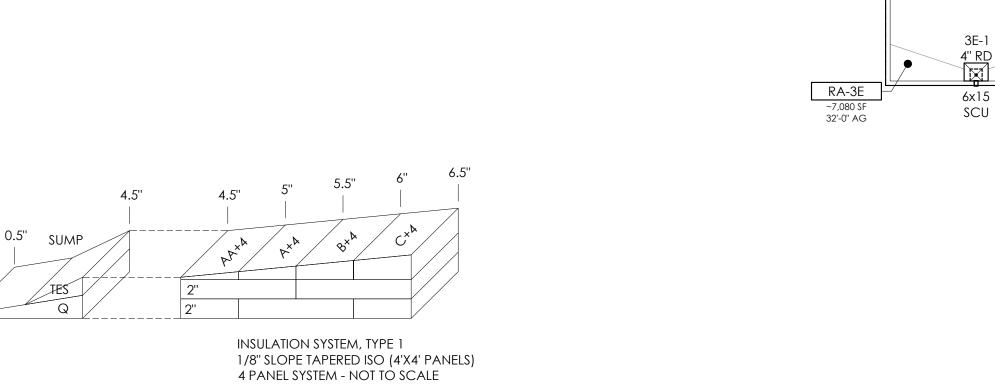
6x15 SCU

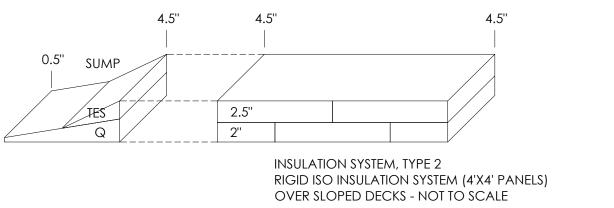
6x15 SCU

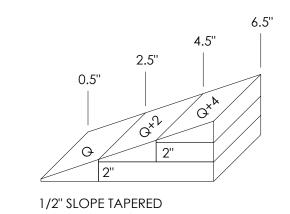
6x15 SCU

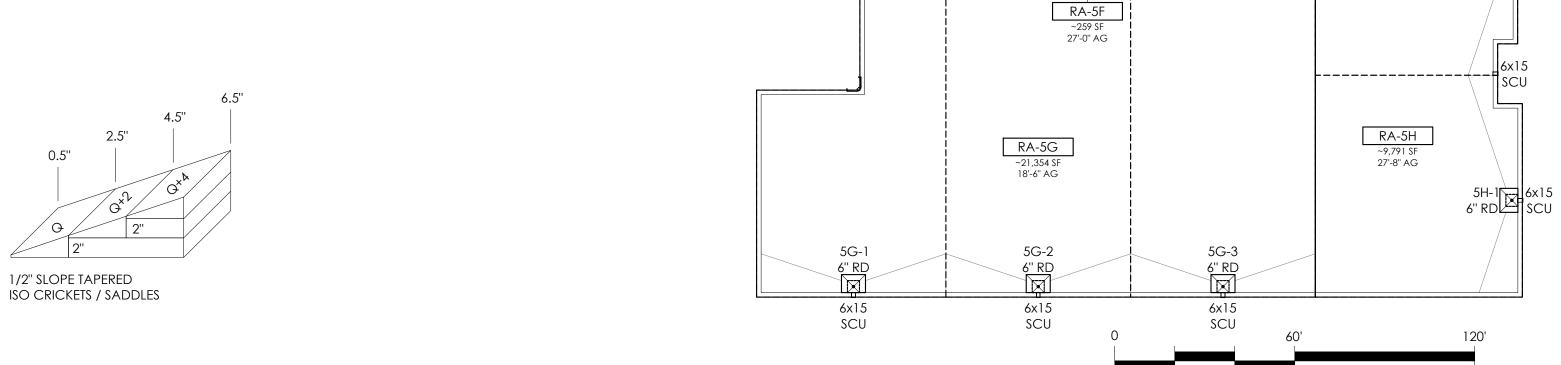


RA-2B









RE	QUIRED	ROOF DR	RAINAGE	CAPACI	TY	
DRAIN/DS LABEL	TRIBUTARY AREA (SQ.FT.)	**REQ'D CAPACITY (GPM)	DRAIN/DS SIZE (INCHES)	SCUPPER SIZE	RESERVED	
1A-1	3,656 SF	171.1	6"	6x15		
1A-2	3,525 SF	165.0	6"	6x15		
1A-3	3,656 SF	171.1	6"	6x15		C. B. GOLDSMITH AND ASSOCIATES,
1B-1	1,992 SF	93.2	4''	6x15		Building Sciences - Roofing and Exterior Envelope Consulting - Forensic Architec
1B-2	2,162 SF	101.2	4''	6x15		2555 Nursery Road
1B-3	3,897 SF	182.4	4''	6x15		- Clearwater, Florida 33764 Phone: 727.540.0456
1C	267 SF					1
2A-1	5,628 SF	263.4	6''	6x15		Email: info@cbgoldsmith.com
2A-2	3,788 SF	177.3	4''	6x15		License: AR-94537
2B-1	4,229 SF	197.9	6''	6x15		Seal: OF FLO
2B-2	3,788 SF	177.3	4''	6x15		J. J. WHILE
2B-3	4,735 SF	221.6	6"	6x15		Sto Str. Com
2C-1	1,575 SF	73.7	4''	6x15		8 • [ ~ - * - *
2D-1	2,383 SF	111.5	4''	6x15		AR0094537
3A-1	3,999 SF	187.2	6"	6x15		Barry - THI
3A-2	4,442 SF	207.9	6"	6x15		ERED ARCH
3B-1	4,548 SF	212.8	6''	6x15		Robert J. Whitcomb
3B-2	4,495 SF	210.4	6''	6x15		
3B-3	2,366 SF	110.7	6"	6x15		Consultant:
3C-1	1,578 SF	73.9	3"	6x15		
3D-1	2,360 SF	110.4	4''	6x15		
3E-1	2,754 SF	128.9	4''	6x15		1
3E-2	2,703 SF	126.5	4''	6x15		
3E-3	2,773 SF	129.8	4''	6x15		
4A-1*	1,468 SF	68.7		8x15*		
4A-2*	1,469 SF	68.7		8x15*		
4B-1	1,030 SF	48.2	3"			
4B-2	4,340 SF	203.1	5"	6x15		
4B-3	2,939 SF	137.5	5"	6x15		
4B-4	4,328 SF	202.6	5"	6x15		Client:
4B-5	1,059 SF	49.6	3"			HILLSBOROUGH COUNTY SCHO
4C-1	1,475 SF	69.0	3"	6x15		Construction Operations Divis
4C-2	1,425 SF	66.7	4''	6x15		1202 East Palm Avenue
4D-1	5,398 SF	252.6	5"	6x15		Tampa, Florida 33605-3512
4D-2	3,177 SF	148.7	5"	6x15		
4E-1	3,501 SF	163.8	5"	6x15		
4E-2	3,988 SF	186.6	5"	6x15		
4F-1	1,500 SF	70.2	4''	6x15		
4N-1	1,798 SF	84.1	4''	6x15		
4P-1	1,535 SF	71.8	4''	6x15		_
4W-1	496 SF	23.2	5x5		6x6	]
5A-1	1,832 SF	85.7	4''	6x15		H: 0 /
5A-2	1,832 SF	85.7	4''	6x15		& Address:  ROOF REPLACEMENT  AT  HOWARD W. BLAKE HIGH SCHOOL 1701 NORTH BOULEVARD TAMPA, FLORIDA 33607
5B-1	3,288 SF	153.9	6"	6x15		AE
5B-2	3,288 SF	153.9	6"	6x15		
5C-1	1,157 SF	54.1	6"	6x15		AC T SO SO SIGNATION OF THE SIGNATURE THE SI
5C-2	1,170 SF	54.8	6"	6x15		S: ROOF REPLACEM AT AD W. BLAKE HIG OI NORTH BOULE AMPA, FLORIDA 3
5D-1	6,027 SF	282.1	6''	6x15		RE BL ,
5E-1	2,200 SF	103.0	4''	6x15		
5E-2	3,072 SF	143.8	4''	6x15		
5F-1	584 SF	27.3	4''	6x15		R AR 70
5G-1	5,827 SF	272.7	6''	6x15		dds —
5G-2	8,234 SF	385.4	6"	6x15		roject Title & Address: R HOWAR 17C
5G-3	10,666 SF	499.2	6"	6x15		
5H-1	5,025 SF	235.2	6"	6x15		100
5H-2	5,133 SF	240.2	6"	6x15	1	<b>1</b> 9.

\* MARKED AREAS DRAINS TO A LOWER LEVEL ROOF AREA THROUGH A PRIMARY SCUPPER

197.8

151.6

62.1

47.5

37.5

36.2

36.2

34.8

12.2

9.5

6x15

6x12

5x5

5x5

4''

4,227 SF

3,240 SF

1,326 SF

1,016 SF

774 SF

774 SF

744 SF

261 SF

202 SF

5J-3

5K-1

5M-1

5M-2

5N-1

50-1

5P-1

\*\* DESIGN RAINFALL RATE OF 4.5-IN. PER HOUR IS EQUAL TO **2.805 G.P.H.** PER 1 SQ.FT. OR **0.0468 G.P.M.** PER 1 SQ.FT.

		NO									
i											
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**NOTE:** THE BUILDING DATA ON THE DRAWINGS IS REPRODUCED AS RECEIVED FROM THE RESPONSIBLE PROFESSIONAL AND/OR AS RECORDED FROM OBSERVATIONS IN THE FIELD. BECAUSE THE DRAWINGS MAY NOT REPRESENT THE EXISTING CONDITIONS EXACTLY, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SUBMIT NEW SHOP DRAWINGS OF ALL CONFLICTING CONDITIONS OR QUESTIONS OF INTERPRETATION.

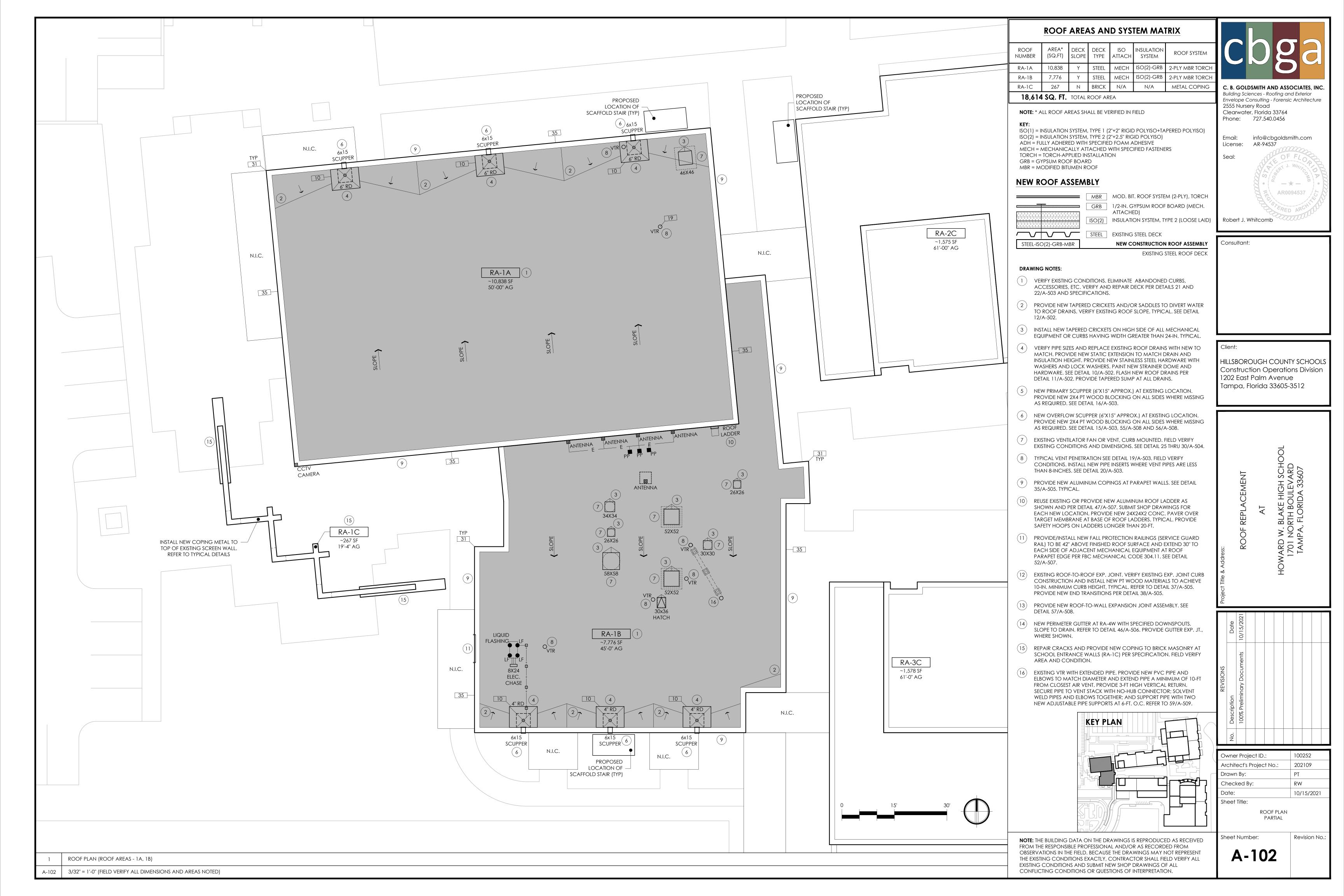
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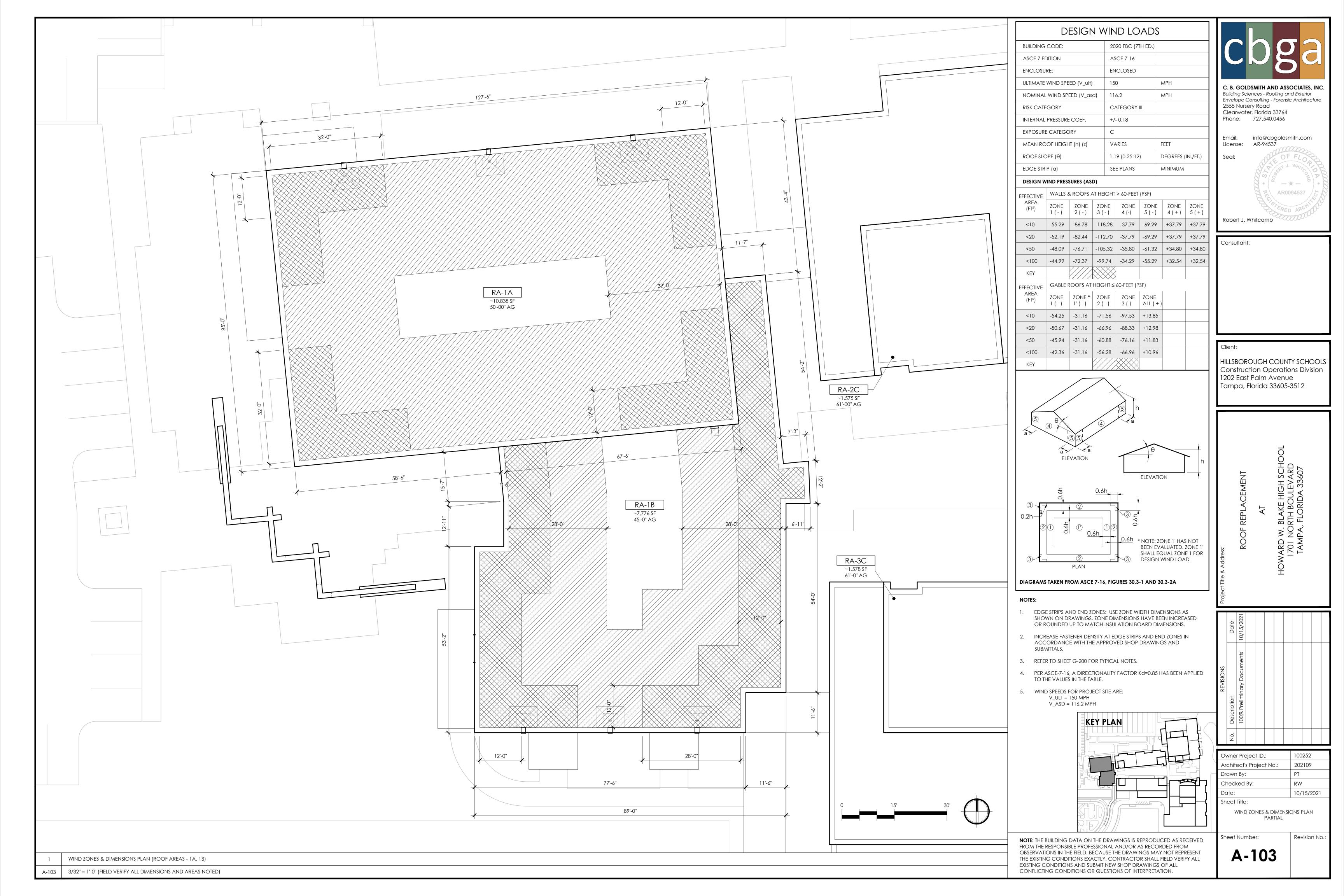
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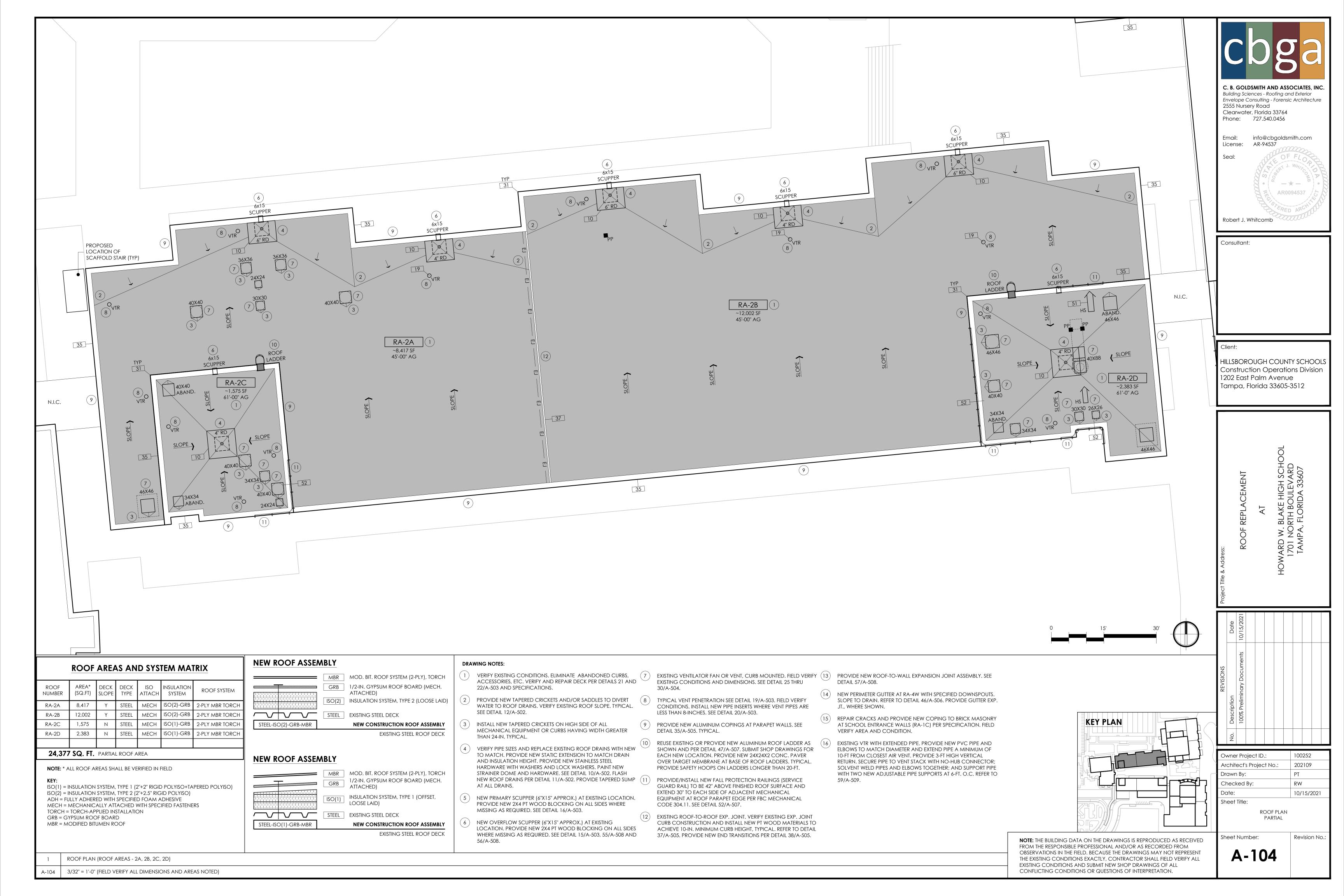
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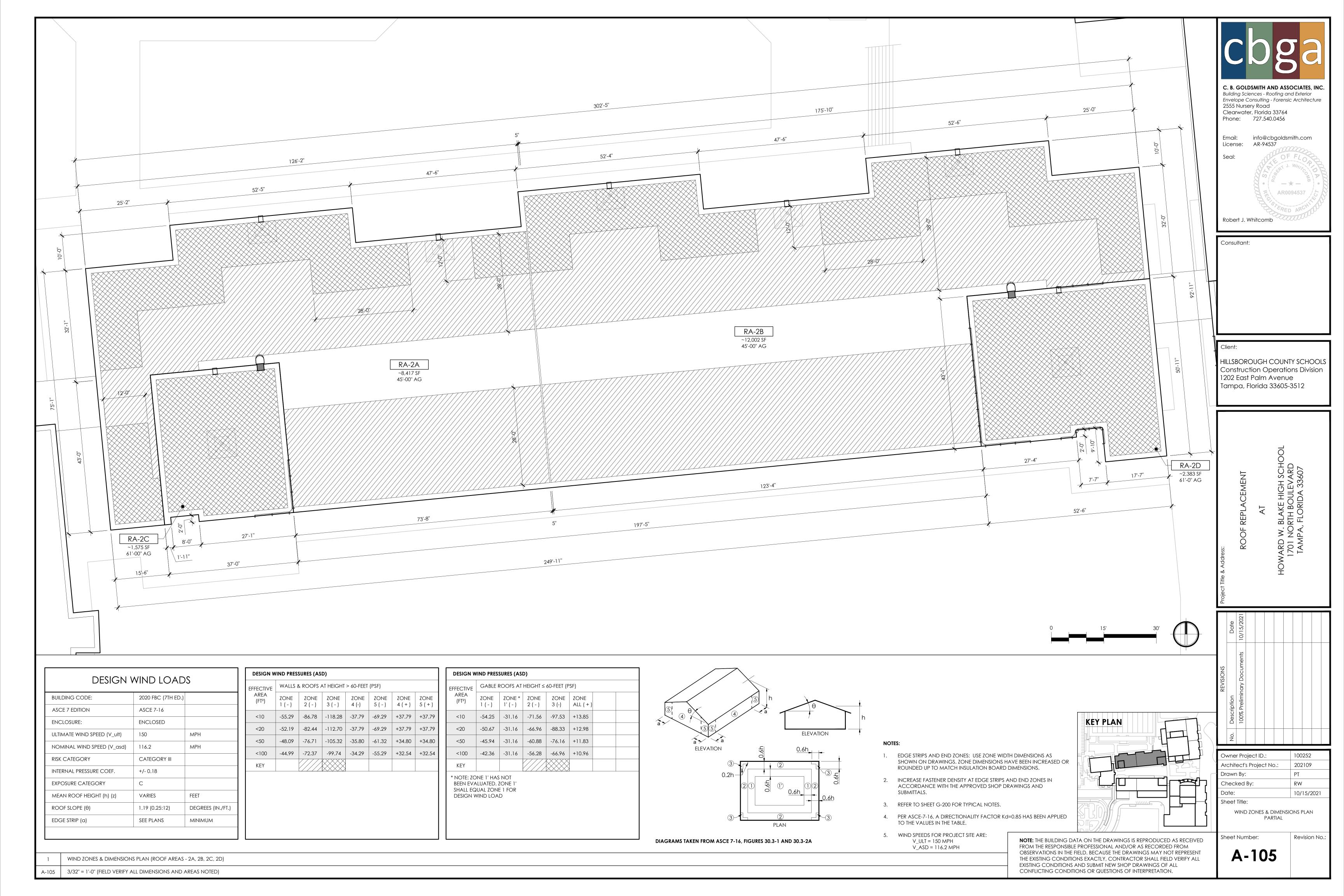
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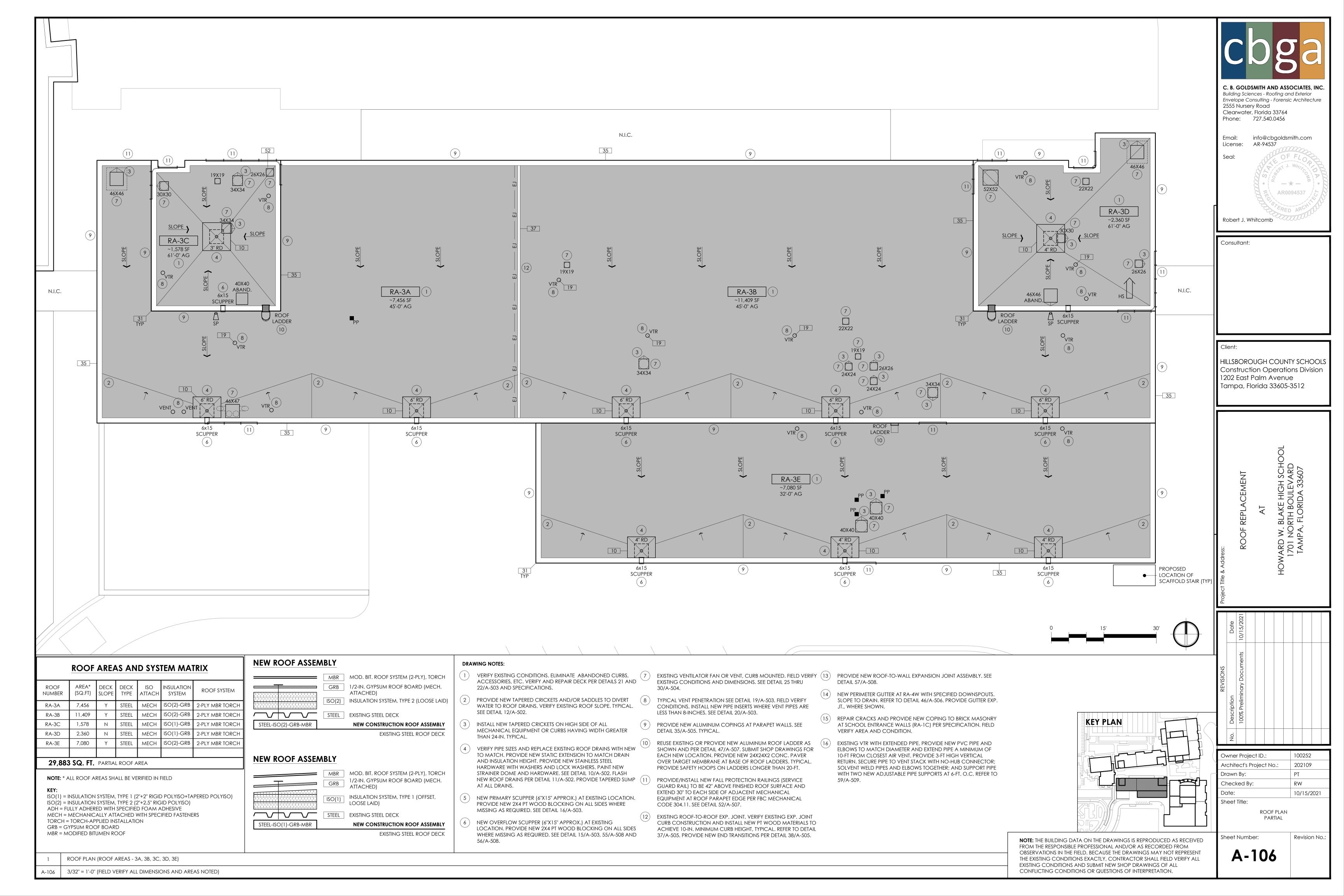
1/32" = 1'-0"

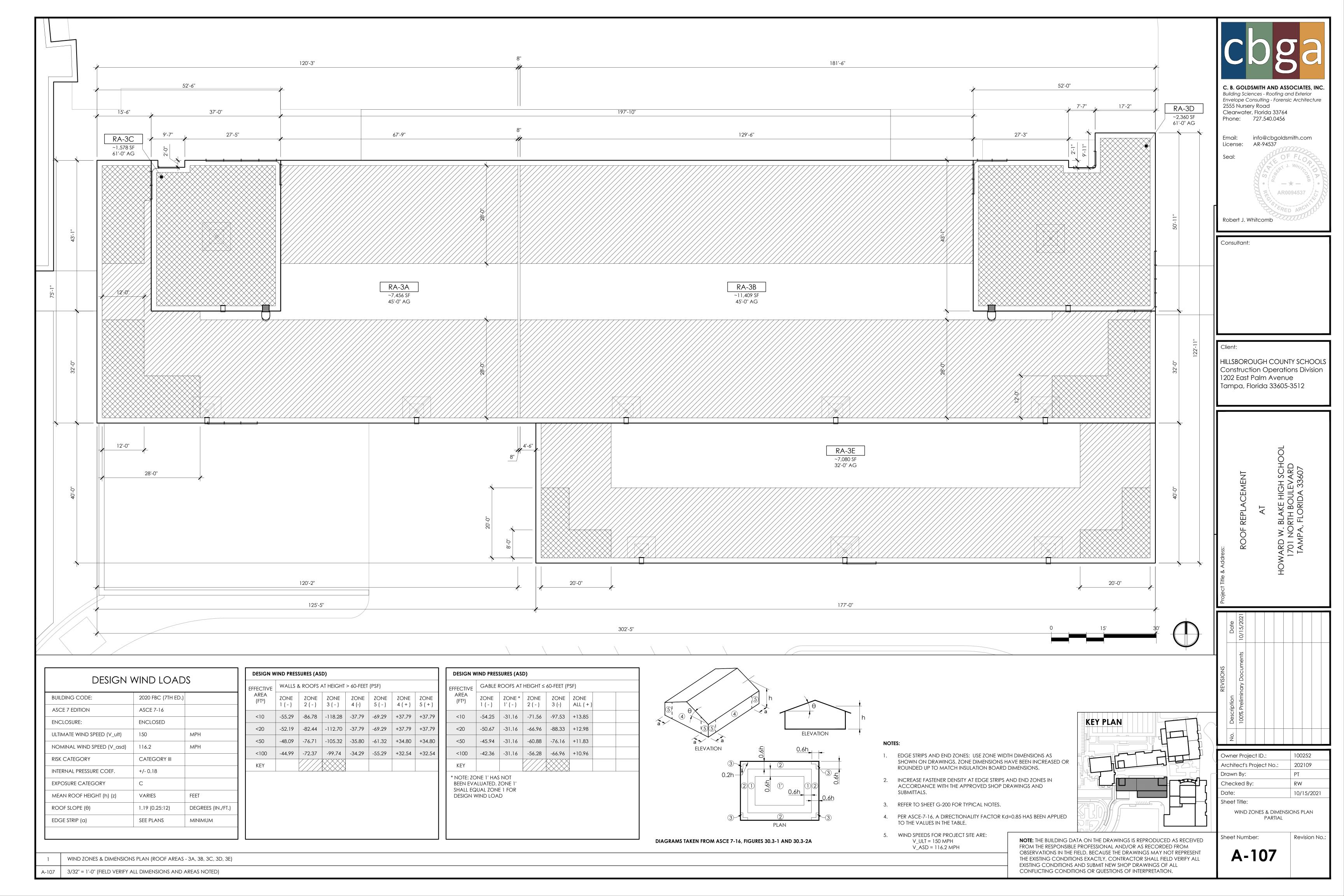


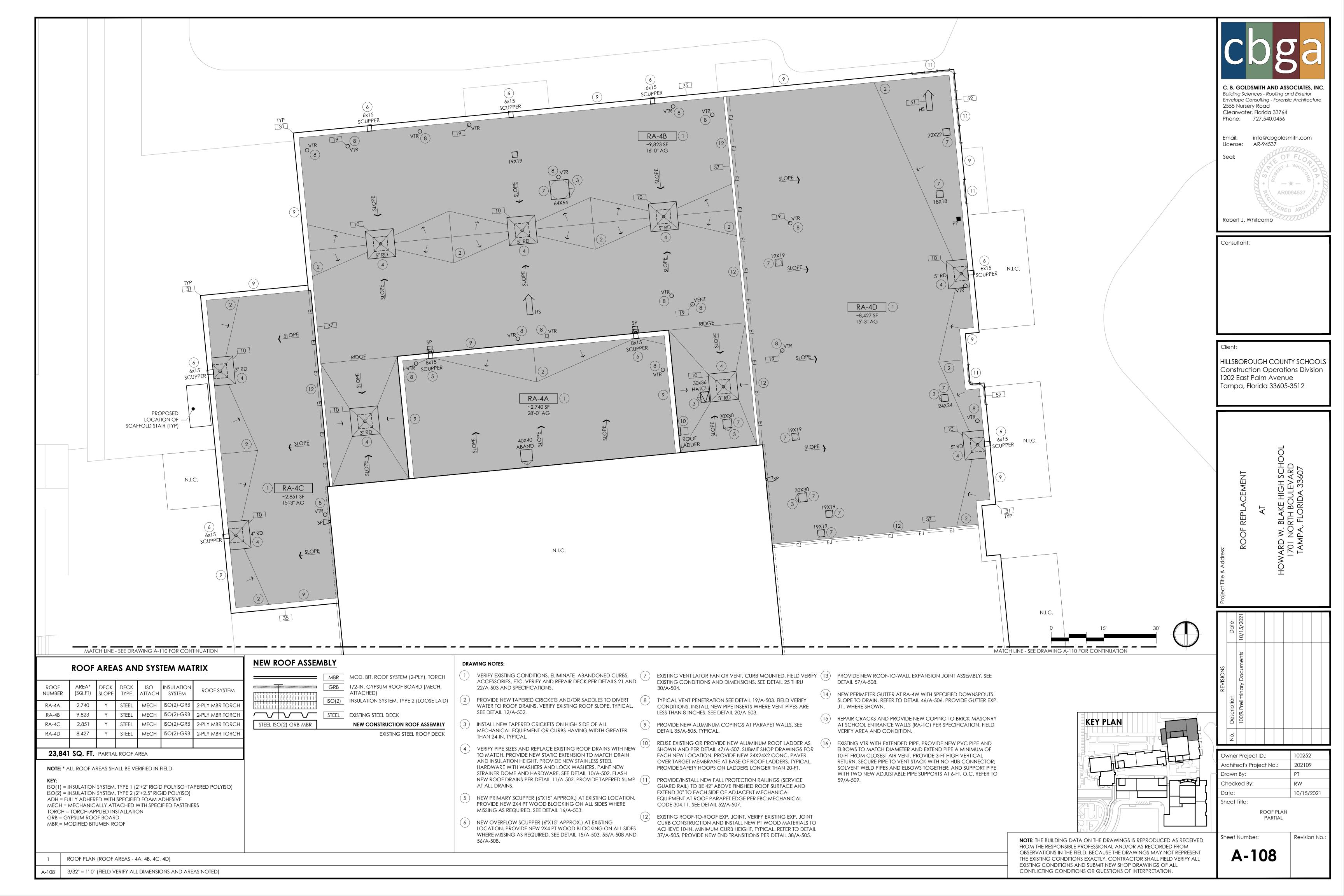


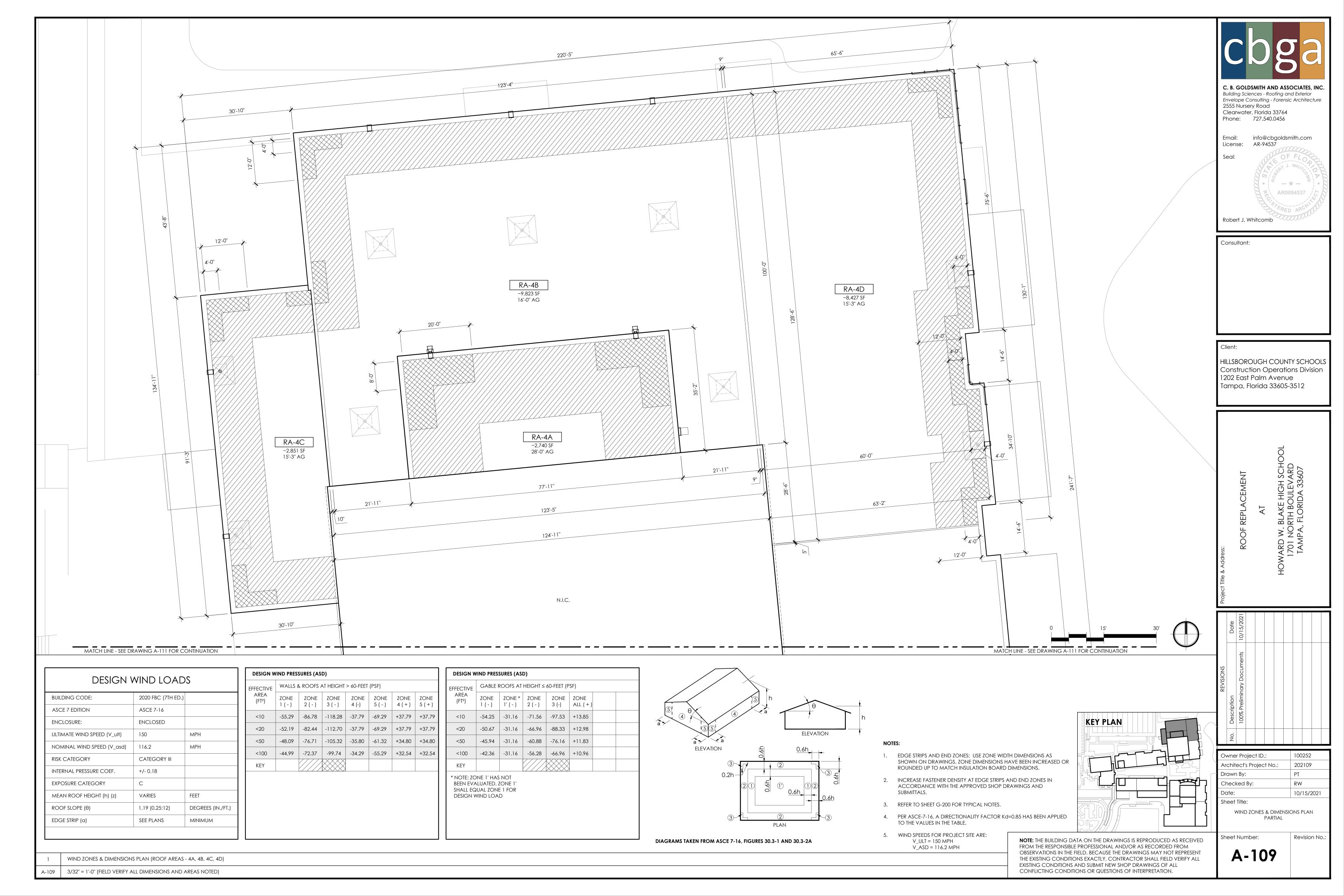


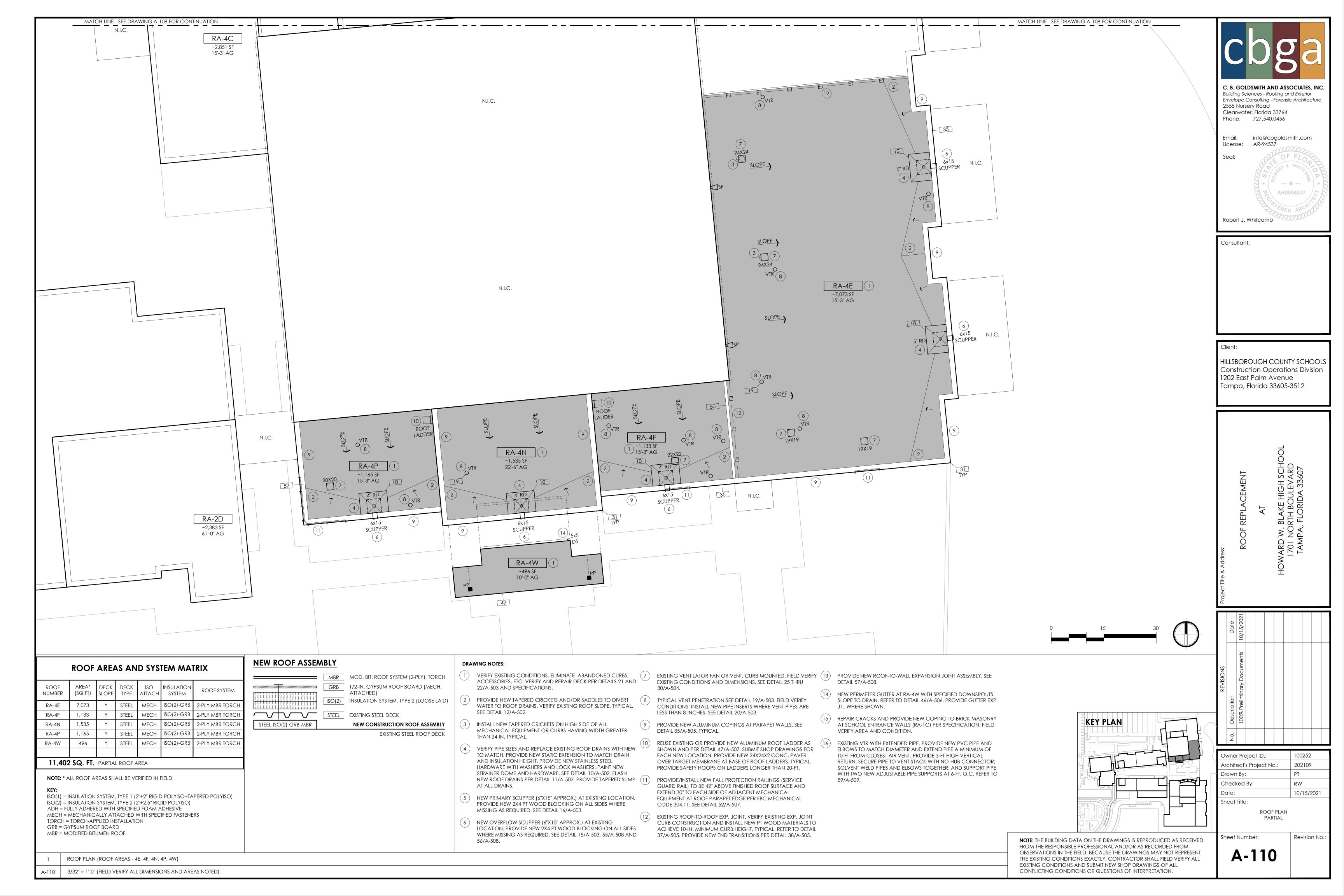


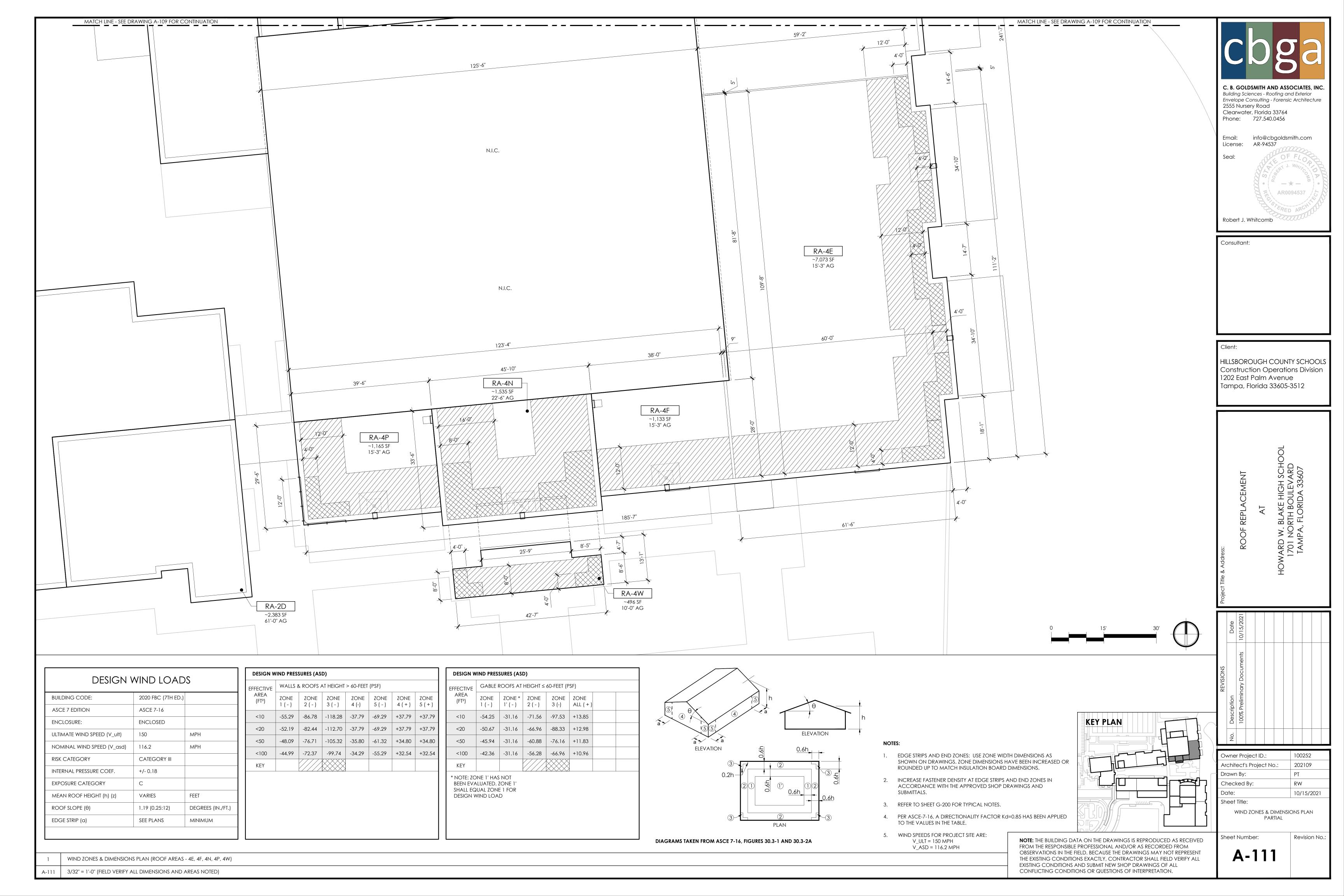


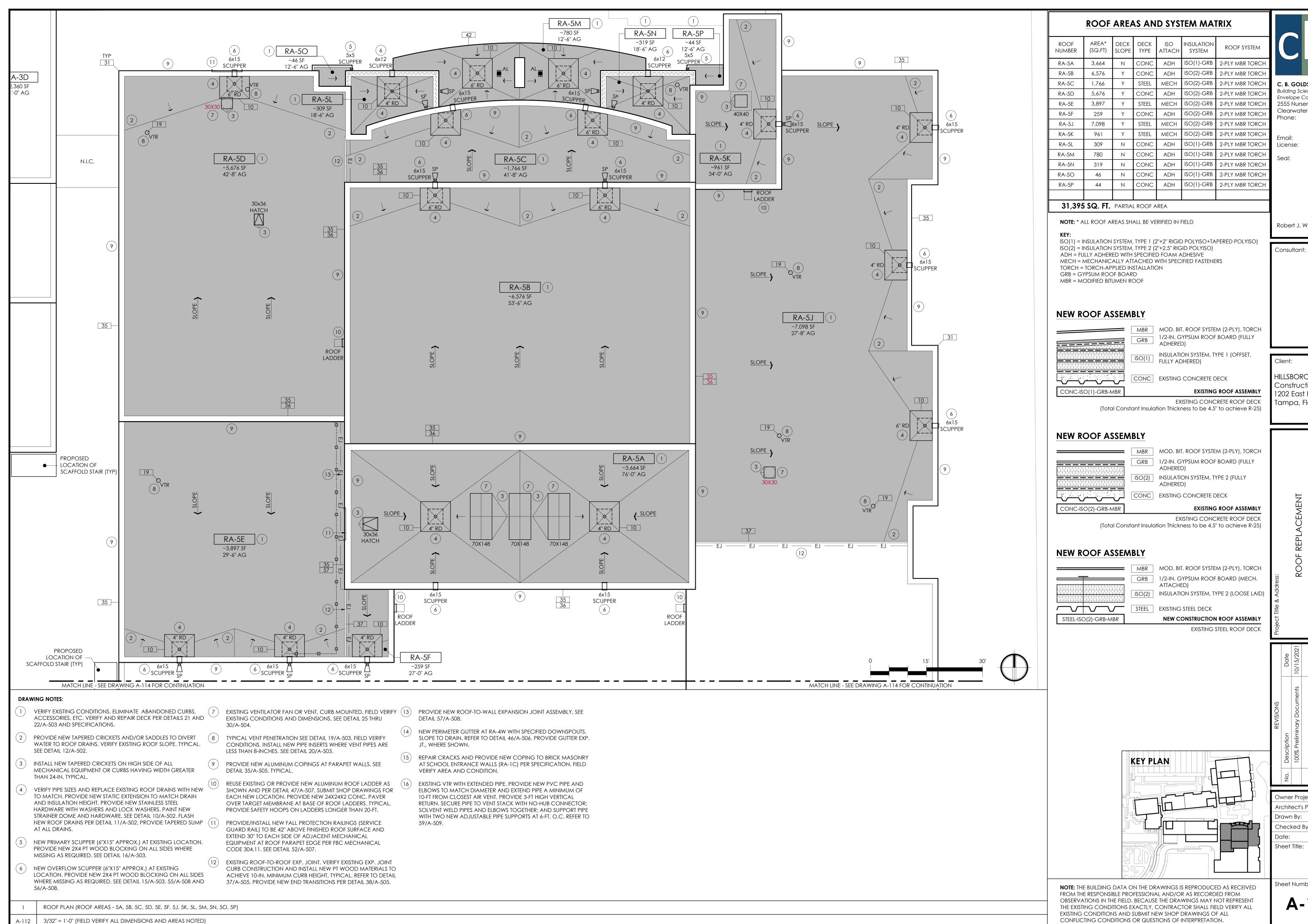












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Email: info@cbgoldsmith.com AR-94537 License:

Robert J. Whitcomb

HILLSBOROUGH COUNTY SCHOOLS Construction Operations Division 1202 East Palm Avenue

Tampa, Florida 33605-3512

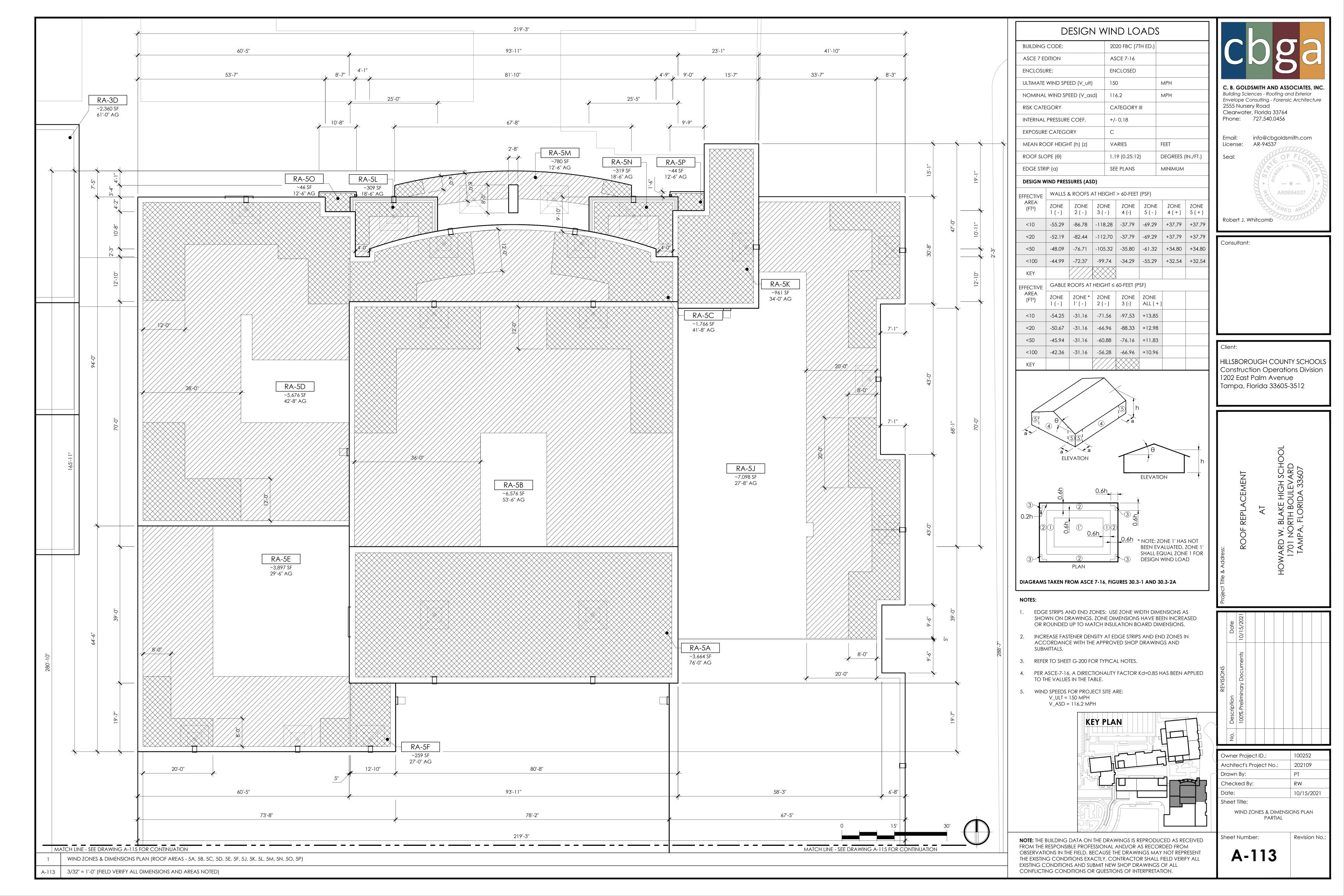
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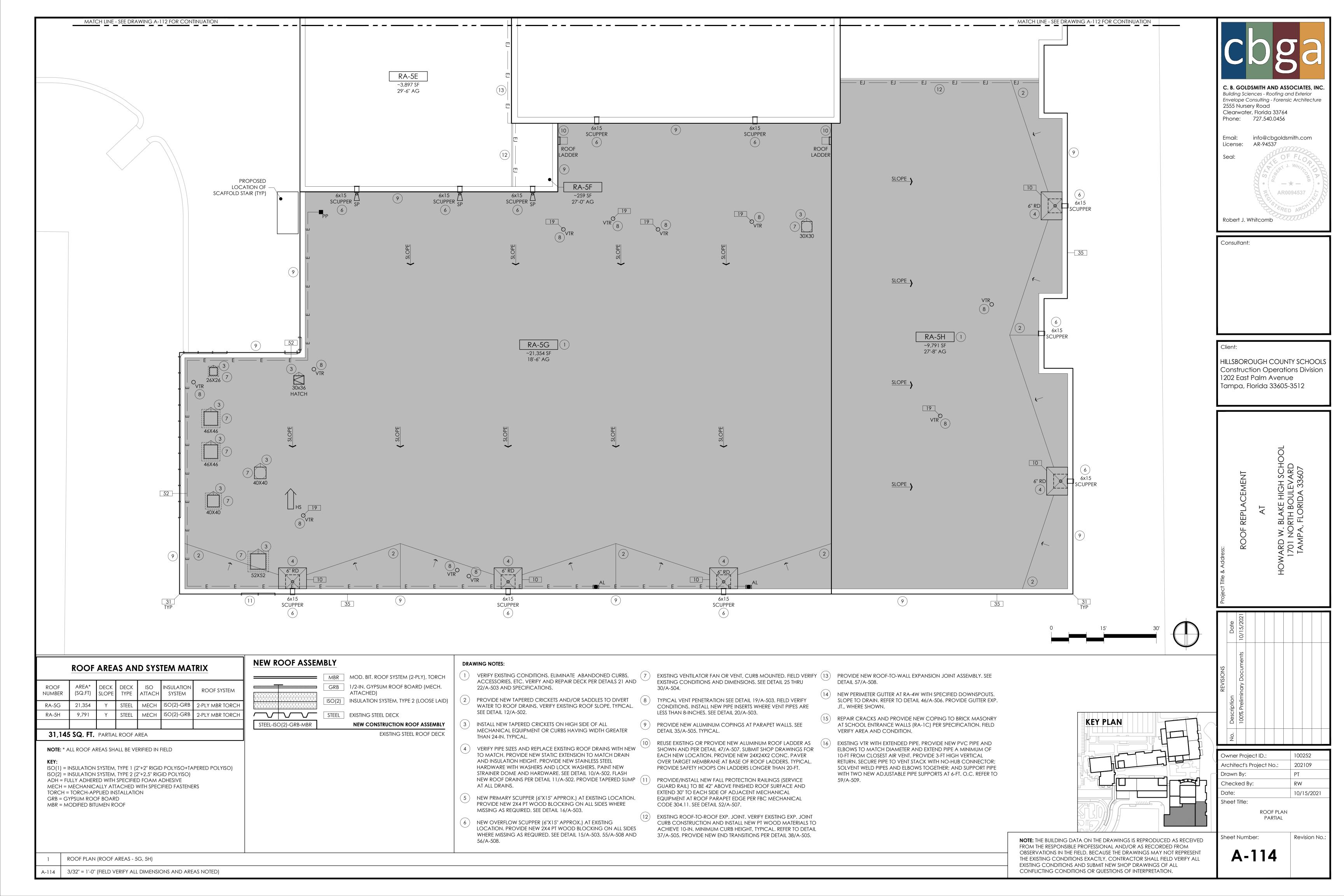
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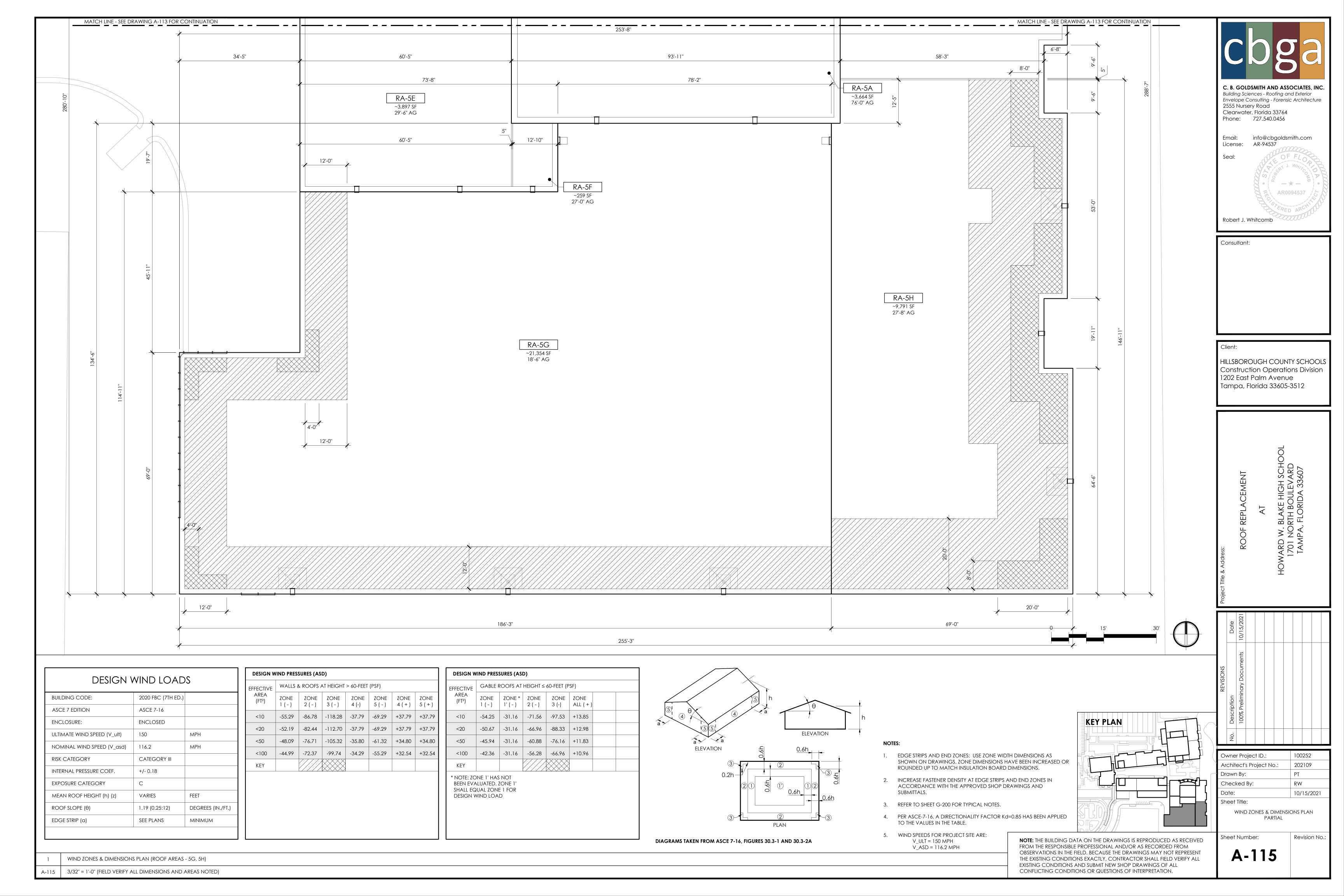
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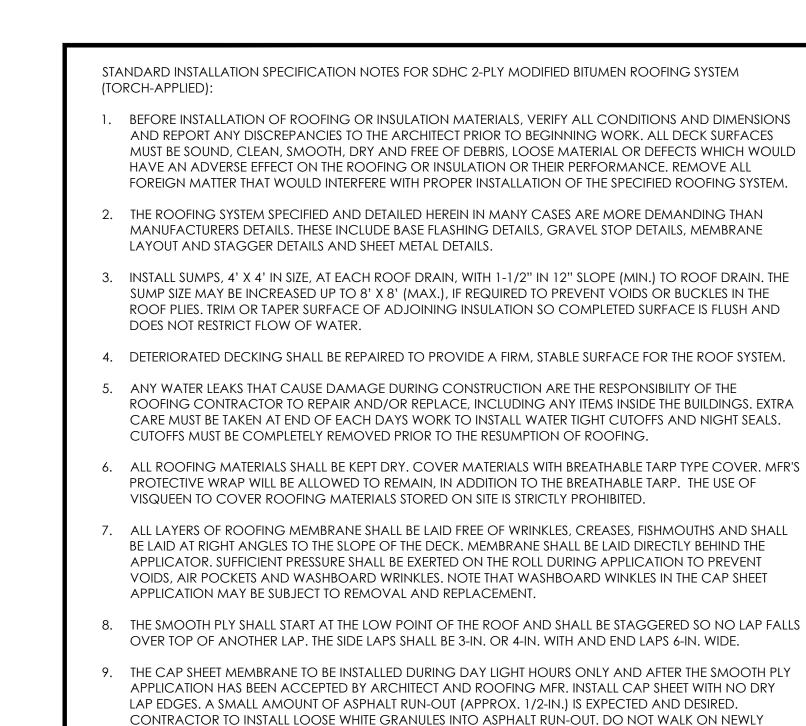
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CONFLICTING CONDITIONS OR QUESTIONS OF INTERPRETATION.









DETERMINED BY ARCHITECT.

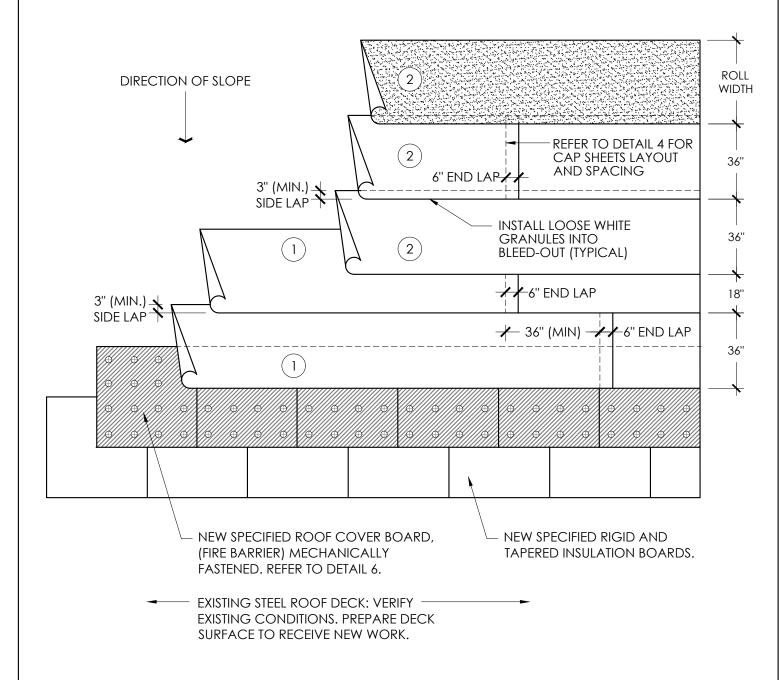
MOUNTED EQUIPMENT, EXPANSION JOINTS, ETC.

STANDARD ROOFING SPECIFICATION

NOT TO SCALE

#### STANDARD INSTALLATION SPECIFICATIONS FOR MULTIPLE-PLY MODIFIED ASPHALT ROOFING SYSTEM OVER NEW INSULATION AND GYPSUM ROOF BOARDS (COVER BOARDS) - STEEL ROOF DECKS.

- (1) 1 PLY SMOOTH SBS INTERPLY MEMBRANE (TORCH-APPLIED) TO INSULATION SYSTEM
- A. 3-IN. (MINIMUM) SIDE LAP (PER MFG. DETAIL).
- B. 6-IN. END LAP. C. STAGGER WIDTH SO NO LAPS FALL ON TOP OF LOWER PLY.
- (2) 1 PLY WHITE GRANULAR SBS CAP SHEET (TORCH-APPLIED) TO SMOOTH INTERPLY.
  - A. 3-IN. (MINIMUM) SIDE LAP (PER MFG. DETAIL).
  - B. 6-IN. END LAP. C. STAGGER ENDS 1/2 LENGTH OF ROLLS (16FT.) WHEREVER POSSIBLE



#### B. 6-IN. END LAP. C. STAGGER ENDS 1/2 LENGTH OF ROLLS (16FT.) WHEREVER POSSIBLE. DIRECTION OF SLOPE WIDTH -refer to detail 4 for **CAP SHEETS LAYOUT** AND SPACING SIDE LAP **INSTALL LOOSE WHITE** 36" GRANULES INTO BLEED-OUT (TYPICAL)

STANDARD INSTALLATION SPECIFICATIONS FOR MULTIPLE-PLY MODIFIED ASPHALT ROOFING SYSTEM

OVER NEW INSULATION AND GYPSUM ROOF BOARDS (COVER BOARDS) - CONCRETE ROOF DECKS.

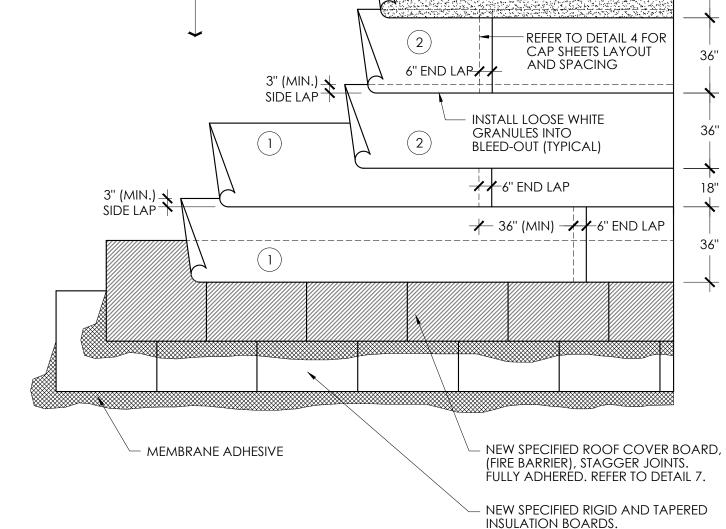
(1) 1 PLY - SMOOTH SBS INTERPLY MEMBRANE (TORCH-APPLIED) TO INSULATION SYSTEM

(2) 1 PLY - WHITE GRANULAR SBS CAP SHEET (TORCH-APPLIED) TO SMOOTH INTERPLY.

A. 3-IN. (MINIMUM) SIDE LAP (PER MFG. DETAIL).

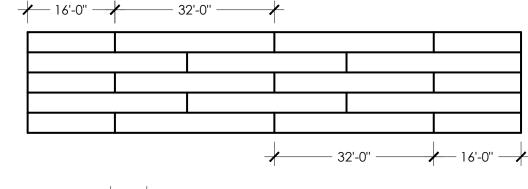
A. 3-IN. (MINIMUM) SIDE LAP (PER MFG. DETAIL).

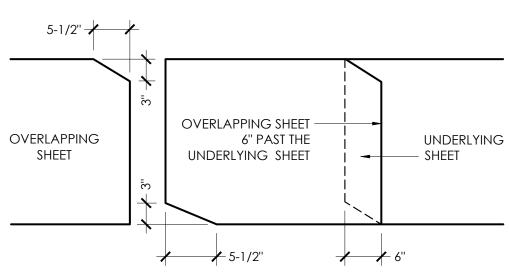
C. STAGGER WIDTH SO NO LAPS FALL ON TOP OF LOWER PLY.



EXISTING CONCRETE ROOF DECK: VERIFY EXISTING CONDITIONS. PREPARE DECK SURFACE TO RECEIVE NEW WORK.

NEW SBS MODIFIED BITUMEN ROOFING SYSTEM, CONCRETE ROOF DECKS





- 1. VERIFY EXISTING CONDITIONS AND PLAN CAP SHEET LAYOUT PRIOR TO START OF WORK. INSTALL CAP SHEET PER THE ABOVE DIAGRAM. LENGTH OF ANY INSTALLED CAP SHEET SEGMENT SHALL BE NO LESS THAN 6-FT.
- 2. APPLY CAP SHEET WITHIN 30 DAYS OF DRY-IN, BUT NO LATER THAN 60 DAYS. DO NOT EXCEED MANUFACTURER'S ACCEPTABLE LIMIT.
- 3. UNROLL MODIFIED BITUMEN MEMBRANE SHEETS AND ALLOW TO RELAX MINIMUM OF 30 MINUTES IN DIRECT SUNLIGHT PRIOR TO INSTALLING SHEETS.
- 4. UNDERLYING MEMBRANES SHALL BE INSPECTED AND FREE OF MOISTURE, DAMAGE, HOLES, PUNCTURE, GOUGES, ABRASIONS, AND ANY OTHER DEFECTS, INCLUDING LOOSE MATERIALS, DEBRIS, SEDIMENTS, DUST, AND ANY OTHER CONDITIONS REQUIRED BY THE MEMBRANE MFR. PRIOR TO CAP SHEET INSTALLATION.
- 5. THE GRANULATED CAP SHEET TO BE INSTALLED DURING DAYLIGHT HOURS ONLY. DO NOT APPLY CAP SHEET IF RAIN HAS OCCURRED WITHIN THE PREVIOUS 24 HOURS.
- 6. BEFORE TORCHING OVER END LAPS, TRIM THE UNDERLYING SHEET'S LOWER CORNER AT THE END OF THE ROLL. FOLLOW WITH OVERLAPPING SHEET, TRIMMING THE UPPER OUTSIDE CORNER. CORNERS SHOULD BE TRIMMED ON A DIAGONAL ANGLE 5-1/2" LONG FROM END OF ROLL TO OUTSIDE EDGE. WIDTH OF TRIM SHOULD BE EQUAL IN WIDTH TO THE SIDE LAP SPECIFIED. TRIMMED CORNERS SHOULD BE COMPLETELY COVERED BY APPLICATION OF SUCCEEDING CORNERS.
- 7. ALL LAPS IN CAP SHEET WHERE INSTALLED OVER EXISTING GRANULE SURFACING SHALL BE 100-PERCENT EMBEDDED. PRIOR TO FORMING LAP OVER GRANULATED SURFACES, EMBED GRANULES OF THE RECEIVING SHEET BY HEATING AND TROWELING-IN THE GRANULES TO FORM A UNIFORM BLACK COMPOUND SURFACE.
- 8. PROFESSIONAL WORKMANSHIP SHALL BE REQUIRED TO KEEP ROOF'S WHITE CAP SHEET AND FLASHING LOOKING AESTHETICALLY PLEASING UPON COMPLETION OF PROJECT. MINIMIZE TRAFFIC ON NEWLY INSTALLED CAP SHEET MEMBRANE. REPAIR ALL FOOT PRINTS IN CAP SHEET.

CAP SHEET INSTALLATION AND LAYOUT DIAGRAM

NOT TO SCALE

MID-LANDING

OUTLINE OF

PLYWOOD

SHEATHING

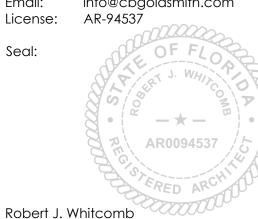
TO ROOF. TYPICAL FOR EACH BUILDING.

9. PROVIDE TIGHT SMOOTH LAMINATIONS OF EACH MEMBRANE LAYER WITHOUT WRINKLES, RIDGES, BUCKLES, KINKS, FISH MOUTHS, OR VOIDS.



C. B. GOLDSMITH AND ASSOCIATES, INC. Building Sciences - Roofing and Exterior Envelope Consulting - Forensic Architecture 2555 Nursery Road Clearwater, Florida 33764 Phone: 727.540.0456

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Consultant:

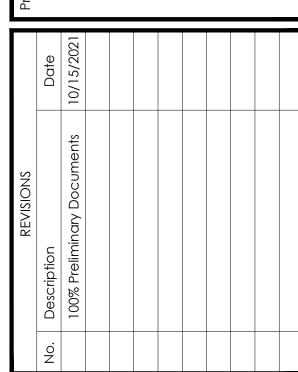
Client:

TOP OF BUILDING

**ACCESS** 

ROOF LEVEL

HILLSBOROUGH COUNTY SCHOOLS Construction Operations Division 1202 East Palm Avenue Tampa, Florida 33605-3512



#### 100252 Owner Project ID.: 202109 Architect's Project No. Drawn By: Checked By: 10/15/2021 Sheet Title: DETAILS

Sheet Number: Revision No.

A-501

**FASTENER SCHEDULE (MINIMUM REQUIREMENTS)** 

INSTALLED CAP SHEET AS FOOT PRINTS WILL SHOW AND VOIDS WILL OCCUR. STAGGER TO BE 1/2 WIDTH OF

THE SECOND PLY AND HALF LENGTH OF ROLL (16 FT.) PROFESSIONAL WORKMANSHIP IS REQUIRED TO KEEP

WHITE CAP SHEET AND FLASHING LOOKING ESTHETICALLY PLEASING UPON COMPLETION OF PROJECT. SLOPPY WORK OR POOR CAP SHEET LAYOUT WILL RESULT IN ADDITIONAL CAP SHEET BEING INSTALLED AS

10. BASE FLASHINGS ARE REQUIRED TO EXTEND A MINIMUM OF 8-INCHES ABOVE THE FINISHED ROOF FOR ROOF

REPLACEMENT, PATCHING, OR SPLICING NEW ROOFING INTO EXISTING ARE NOT ACCEPTABLE UNDER ANY

THE ENTIRE AREA OR SECTION OF ROOFING SHALL BE REPLACED. THIS SHALL MEAN FROM EDGE AND/OR

EXPANSION JOINT TO EDGE AND/OR EXPANSION JOINT, IN BOTH DIRECTIONS. AT THE DISCRETION OF THE

PRIMED AND OVERLAID WITH AN ADDITIONAL LAYER OF CAP SHEET OR REPAIRED AS DEEMED ACCEPTABLE.

ARCHITECT AND THE ROOF SYSTEM MANUFACTURER, THE ROOF AREA IN QUESTION MAY BE CLEANED,

APPLICATORS TO OPERATE TORCHES WHEN AN OPEN FLAME WILL CONTACT ANY PART OF A ROOF.

CIRCUMSTANCES. IF A SECTION OF EXISTING ROOF WARRANTS EXCESSIVE REWORKING AND/OR PATCHING,

11. APPLY NEW MATCHING COLOR MINERAL GRANULES TO ALL LIQUID MEMBRANE FLASHINGS. TYPICAL.

12. TOTAL INSTALLATION CONCEPT: A COMPLETE NEW ROOFING SYSTEM HAS BEEN SPECIFIED. PARTIAL

13. CONTRACTOR SHALL EMPLOY ONLY NRCA PRO-CERTIFIED INSTALLERS AND/OR CERTA-CERTIFIED

	APPLICATION	fastener spacing	Washer Req'd?	HOLE CONFIG.	FASTENER TYPE
SH	EET METAL COMPONENTS				
1.	EDGE/DRIP METAL TO WOOD	3-IN. O.C. STAGGER	N/A	N/A	(A)
2.	EDGE/DRIP METAL, CONT. CLEAT TO WOOD	6-IN. O.C. (MAX)	N/A	N/A	(A)
3.	EXP. JOINT, CONT. CLEAT TO WOOD	8-IN. O.C. (MAX)	N/A	N/A	(A)
4.	EXP. JOINT, EXPOSED FLANGE TO WOOD	12-IN. O.C. (MAX)	YES	SLOTTED	(B)
5.	AREA DIVIDERS, EXPOSED FLANGE TO WOOD	12-IN. O.C. (MAX)	YES	SLOTTED	(B)
6.	AREA DIVIDER, CONT. CLEAT TO WOOD	8-IN. O.C. (MAX)	N/A	N/A	(A)
7.	SURFACE-MOUNTED COUNTER FLASHING TO WOOD	12-IN. O.C. (MAX)	YES	SLOTTED	(B)
8.	SURFACE-MOUNTED COUNTER FLASHING TO CONC.	12-IN. O.C. (MAX)	YES	SLOTTED	(D) OR (E)
9.	COPING CAP, CONT. CLEAT TO WOOD.	6-IN. O.C. (MAX)	N/A	N/A	(A)
10.	COPING CAP, INSIDE FLANGE TO WOOD	12-IN. O.C. (MAX)	YES	SLOTTED	(B)
11.	METAL GUTTERS TO WOOD	12-IN. O.C. (MAX)	N/A	CNTRSINK	(A)
12.	GUTTER HANGERS TO CONCRETE OR MASONRY	2 EACH	N/A	5/16-IN.	(C)
13.	DOWNSPOUT BRACKETS TO CONCRETE	EACH SIDE	IF REQ'D	N/A	(D) OR (E)
14.	SELF-FLASHING ACCESSORIES TO WOOD	6-IN. O.C. (MAX)	N/A	N/A	(A)
15.	SELF-FLASHING ACCESSORIES TO METAL DECK	2 PER SIDE	N/A	SLOTTED	(F)
16.	CURB-MOUNTED VENT, EXPOSED FLANGE TO WOOD	24-IN. (OR 2/SIDE)	IF REQ'D		(B)
W	OOD BLOCKING AND PLYWOOD COMPONENTS				
17.	P.T. WOOD BLOCKING TO METAL DECK	12-IN. O.C. (MAX)	IF REQ'D	3/16-IN.	(F)
18.	P.T. WOOD BLOCKING TO CONCRETE/MASONRY	12-IN. O.C. (MAX)	IF REQ'D	5/16-IN.	(J)
19.	P.T. WOOD BLOCKING/NAILERS TO WOOD	12-IN. O.C. (MAX)	N/A	N/A	(1)
20.	P.T. WOOD BLOCKING TO GYPSUM OR "TECTUM"	12-IN. O.C. (MAX)	YES	5/8-IN.	(H)
21.	WOOD FRAMING	AS REQUIRED	N/A	N/A	(G)
22.	CDX PLYWOOD TO CONC./MASONRY SURFACES	12-IN. O.C. (MAX)	N/A	CNTRSINK	(C)
23.	P.T. WOOD CURB EXTENSIONS TO WOOD	12-IN. O.C. (MAX)	N/A	N/A	(K)
24.	PLYWOOD OVER INSULATION TO METAL DECK	REFER TO DETAIL	N/A	N/A	(L)

A-501

- (A) 12 GAUGE, 304 STAINLESS, RING SHANK NAIL WITH 3/8-IN. DIA. HEAD; LENGTH TO PENETRATE SUBSTRATE 1-1/2-IN.
- (B) #12, 304 STAINLESS, HEX HEAD WOOD SCREW WITH S.S. BONDED EPDM WASHER x 3-IN. LONG.
- (C) 1/4-IN. x 1-1/2-INCH, 304 STAINLESS MASONRY ANCHOR SCREW. (PHILLIPS FLAT HEAD)
- (D) 1/4-IN. x 1-1/2-INCH, 304 STAINLESS MASONRY ANCHOR SCREW. (HEX HEAD)
- (E) 1/4-IN. x 1-1/2-INCH, PIN-DRIVE MASONRY ANCHOR WITH COATED PHILIPS DRIVE SCREW (MUSHROOM HEAD) (F) #15 SELF DRILLING, COATED DECK SCREW
- (G) #12 DIAMOND POINT, HOT DIPPED GALV. BOX NAILS LENGTH SUFFICIENT TO PENETRATE SUBSTRATE 1-1/2 INCHES (H) PRE-ASSEMBLED, SPEED-LOCK TOGGLE BOLT WITH 3-INCH PLATE AND "LOUIE-LOOP" WIRE
- (I) 16d RING SHANK, 304 STAINLESS NAILS x 3-IN. LONG.

FASTENER SCHEDULE

NOT TO SCALE

- (J) 316L STAINLESS SPIKE (PRE-EXPANDED) ANCHOR; LENGTH TO BE SUFFICIENT FOR 1-IN. MIN. EMBEDMENT
- (K) 8d RING SHANK, 304 STAINLESS NAILS x 2 1/2-IN. LONG (TOE NAILED)
- (L) ATLAS NAIL BASE FASTENER (5/8" HEAD, 0.245" DIA., FLAT HEAD W/ RECESSED DRIVE. STEEL WITH EPOXY COATING)

REFER TO SECTION 07 60 00 FOR SPECIFIC PRODUCT INFORMATION. FOR ALL CONDITIONS NOT COVERED ABOVE, REFER TO FASTENER REQUIREMENTS OF THE WRITTEN SPECIFICATIONS, DETAILS, AND/OR CONSULT WITH ARCHITECT.

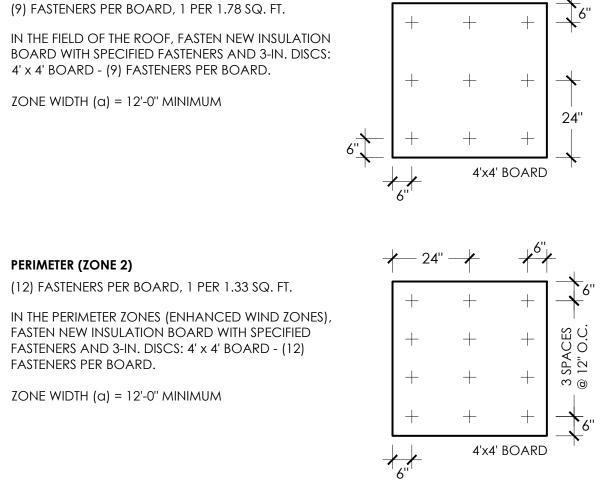
NOTE: LOCATION, SPACING AND NUMBER OF INSULATION BOARD FASTENERS IS VERY IMPORTANT FOR RESISTANCE OF WIND UPLIFT PRESSURES. COMPLIANCE WITH THIS SPECIFICATION IS CRITICAL.

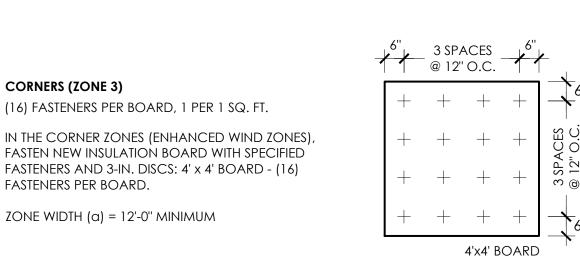
NEW SBS MODIFIED BITUMEN ROOFING SYSTEM, STEEL ROOF DECKS

A-501 NOT TO SCALE

FIELD (ZONE 1)

A-501 NOT TO SCALE





INSULATION/COVER BOARD FASTENING PATTERN (MINIMUM REQUIREMENTS)

NOTE: ACTUAL SPACING, FASTENER TYPE AND NUMBER OF INSULATION BOARD FASTENERS MAY DIFFER FROM

#### APPLICATION RATE 4' x 4' INSULATION BOARD IN THE FIELD OF THE ROOF, SECURE GYPSUM COVER BOARD AND ALL RIGID AND TAPERED INSULATION WITH NEW SPECIFIED FOAM ADHESIVE USING 12-IN. ZONE WIDTH (a) = 12'-0'' MINIMUM

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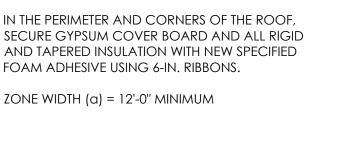
NOT TO SCALE

FIELD (ZONE 1)

PERIMETERS AND CORNERS (ZONES 2 & 3) APPLICATION RATE 4' x 4' INSULATION BOARD

IN THE PERIMETER AND CORNERS OF THE ROOF, SECURE GYPSUM COVER BOARD AND ALL RIGID AND TAPERED INSULATION WITH NEW SPECIFIED FOAM ADHESIVE USING 6-IN. RIBBONS.

MOCK-UPS OF THE PROPOSED NEW ROOF ASSEMBLY.



#### 1. INSULATION ADHESIVE IS USED TO ADHERE RIGID INSULATION PANELS AND COVER BOARDS TO SUBSTRATES APPROVED IN ADVANCED BY THE MATERIAL MANUFACTURER. INSULATION BOARDS TO BE A MAX. OF 4x4-FT.

- 2. DISPENSE FOAM ADHESIVE AT 12-IN. ON CENTER BANDS, OR AS APPROVED BY MANUFACTURER TO MEET DESIGN PRESSURES. INCREASE PATTERN DENSITY AT THE ENHANCED WIND AREAS, AS SHOWN ABOVE.
- 3. ALLOW FOAM TO RISE 3/4-IN. TO 1-IN., LAY INSULATION INTO POSITION AND PLACE BALLAST ON BOARDS UNTIL ADHESIVE SETS (5-7 MINUTES).
- LESS STRINGENT THAN PROVIDED HEREIN, CONTRACTOR SHALL USE THE ABOVE PATTERNS AS A MINIMUM.

4. THE SPACING OF RIBBONS MAY DIFFER FROM THE SUBMITTED TEST DATA. IF THE SPACING IN THE TEST DATA IS

- 5. FOR FULLY BONDED ASSEMBLIES, THE MAX. DESIGN PRESSURE FOR THE SELECTED ASSEMBLY SHALL MEET OR EXCEED THE ZONE 3 PRESSURE IN ACCORD. WITH FBC CHAPTER 16. NO RATIONAL ANALYSIS IS PERMITTED.
- 6. FOR EXISTING SUBSTRATES IN A BONDED RE-ROOF INSTALLATION, THE EXISTING ROOF SURFACE OR EXISTING ROOF DECK SHALL BE EXAMINED FOR COMPATIBILITY AND BOND PERFORMANCE WITH THE SELECTED ADHESIVE, AND THE EXISTING ROOF SYSTEM (FOR RECOVER) 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 ANSI/SPRI IA-1, ASTM E907, FM LOSS

PREVENTION DATA SHEET 1-52 OR TESTING APPLICATION STANDARD TAS 124 SHALL BE CONDUCTED ON

7. ON LIGHTWEIGHT CONCRETE DECKS, IN ADDITION TO INSULATION ADHESIVE, SECURE ALL INSULATION LAYERS AND COVER BOARD WITH SPECIFIED FASTENERS (1 FASTENER AT EACH CORNER AND 1 IN CENTER OF THE BOARD). ENGAGE FASTENERS BY DRIVING THEM THROUGH LIGHTWEIGHT AND INTO STEEL DECK.

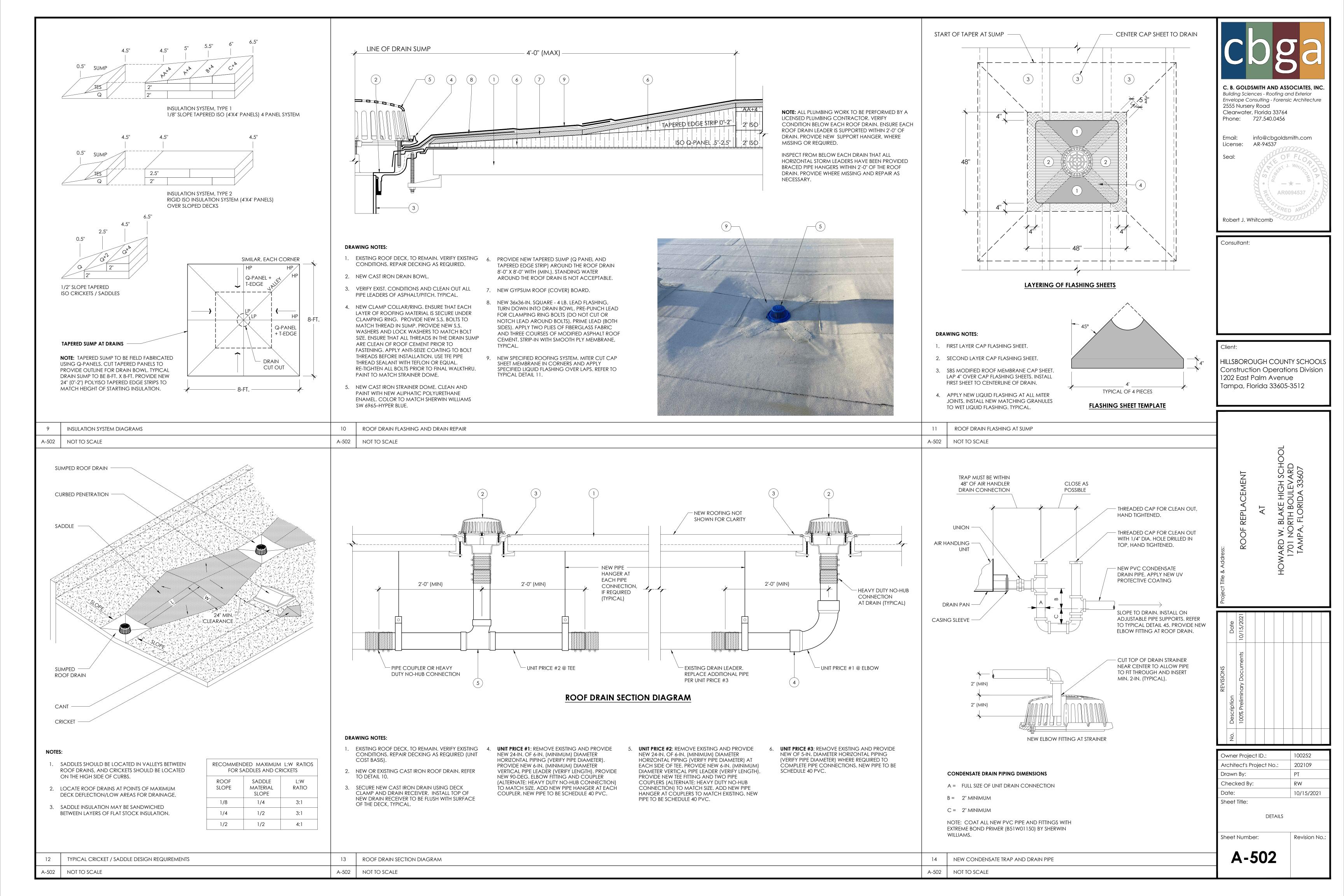
1. UNLESS OTHERWISE INDICATED OWNER TO PROVIDE SEPARATE LOCKS. CONTRACTOR TO DOUBLE LOCK. 2. PROVIDE TEMPORARY SCAFFOLD STAIR WHERE INDICATED ON SITE PLAN OR AS REQUIRED TO ENSURE ACCESS

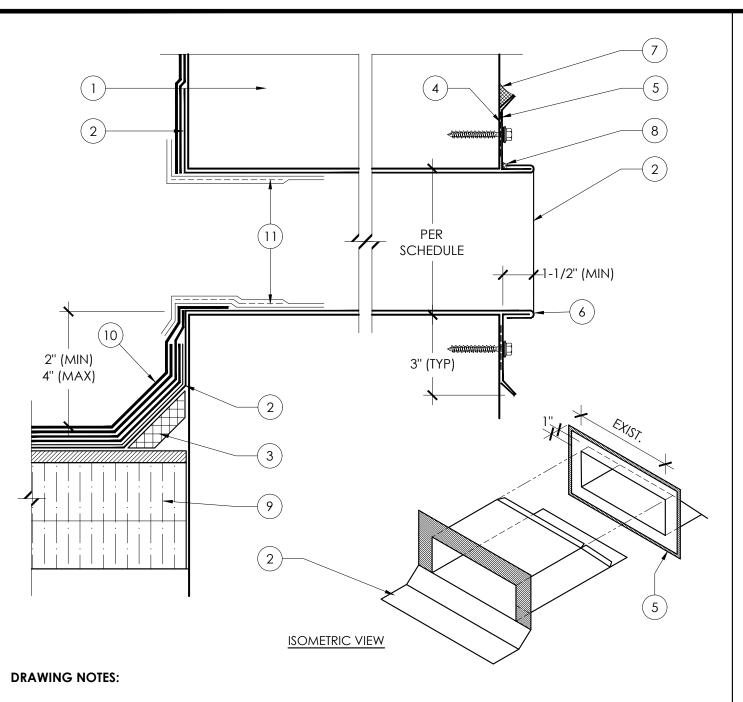
TEMPORARY STAIRS DIAGRAM

- 3. STAIR TO BE MINIMUM 6'-0" X 6'-0" FOR ONE STORY ACCESS OR 6'-0" X 12'-0" FOR TWO STORY ACCESS AND
- 4. PROVIDE VERTICAL 2X4 TIED TO METAL SCAFFOLDING POST TO TEMPORARILY ATTACH PLYWOOD SHEATHING.
- 5. DESIGN AND ASSEMBLY OF SCAFFOLD STAIR TO BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
- 6. DO NOT STORE ANY MATERIAL ON SCAFFOLDS. TOWERS MUST BE TIED AND ADEQUATELY BRACED.

INSULATION/COVER BOARD FASTENING PATTERN FOR ADHESIVE (MINIMUM REQUIREMENTS) TEMPORARY STAIR SCAFFOLD DIAGRAM NOT TO SCALE A-501 A-501 NOT TO SCALE

THE SUBMITTED TEST DATA AND/OR SHOP DRAWINGS. IF THE SPACING IN THE TEST DATA IS LESS STRINGENT THAN PROVIDED HEREIN, CONTRACTOR SHALL USE THE ABOVE FASTENING PATTERNS AS A MINIMUM.





- AS REQUIRED TO ADJUST SCUPPER OPENING TO 2" MINIMUM TO 4-IN. (MAX) ABOVE ROOF LEVEL, IF REQUIRED.
- 2. NEW 24 GA. STAINLESS STEEL SCUPPER OUTLET TUBE. ENLARGE OPENING HEIGHT AND WIDTH TO SIZE INDICATED ON SHEET A-101. VERIFY OPENING SIZE AND FABRICATE FLASHING TO FIT.
- 3. NEW PRE-MOLDED CANT STRIP.

NOT TO SCALE

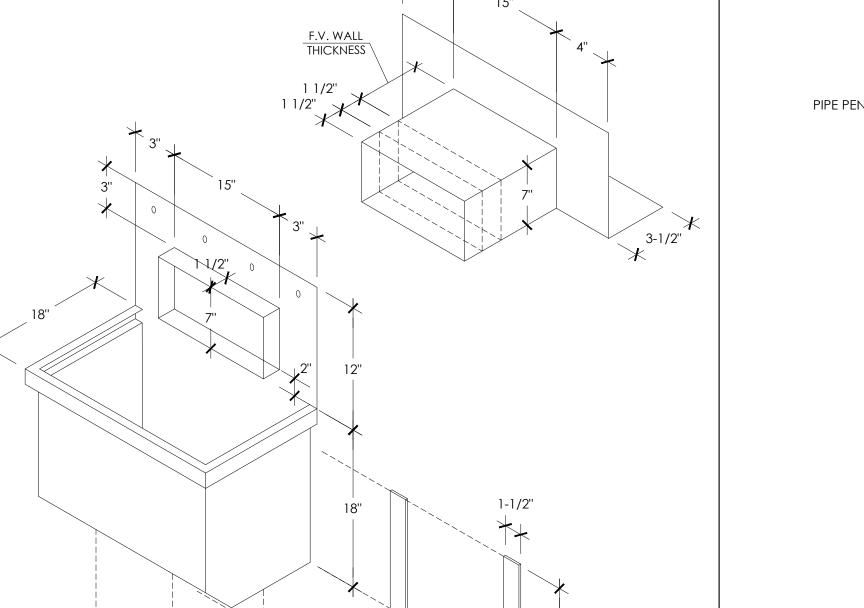
A-503

- 4. NEW SPECIFIED TAPE SEALER. INSTALL TO BACK OF ESCUTCHEON PLATE.
- 5. NEW 24 GA, STAINLESS STEEL ESCUTCHEON PLATE. FABRICATE TO MATCH PERIMETER OF SCUPPER TUBE. BREAK METAL TO FORM 1/2-IN. (MIN) CAULK TRAY AROUND PERIMETER OF ESCUTCHEON PLATE. EXTEND ESCUTCHEON PLATE UNDER COPING METAL IF WITHIN 6" OF COPING.

NEW OVERFLOW SCUPPER AT EXISTING LOCATION DETAIL

✓ VERIFY — ✓

- VERIFY EXISTING CONDITIONS. CUT EXISTING WALL 6. FOLD METAL TO FORM HEMS AROUND PERIMETER OF ESCUTCHEON PLATE.
  - 7. APPLY CONTINUOUS BEAD OF SPECIFIED SEALANT AROUND ESCUTCHEON. TOOL AS NECESSARY TO PROVIDE UNIFORM, SLOPING, FULLY ADHERED SEALANT BEAD, TOP AND SIDES ONLY (TYPICAL).
  - 8. SOLDER SOLID SCUPPER TUBE TO ESCUTCHEON
  - 9. NEW INSULATION AND GYPSUM ROOF (COVER)
  - 10 NEW SPECIFIED ROOFING AND BASE FLASHING
  - 11. STRIP-IN EDGE OF MEMBRANE WITH SPECIFIED LIQUID FLASHING MEMBRANE INTO SCUPPER



### SCARF JOINT PIPE PENETRATIONS POURABLE SEALER **TOP VIEW** ROOF SURFACE **SIDE VIEW**

#### DRAWING NOTES

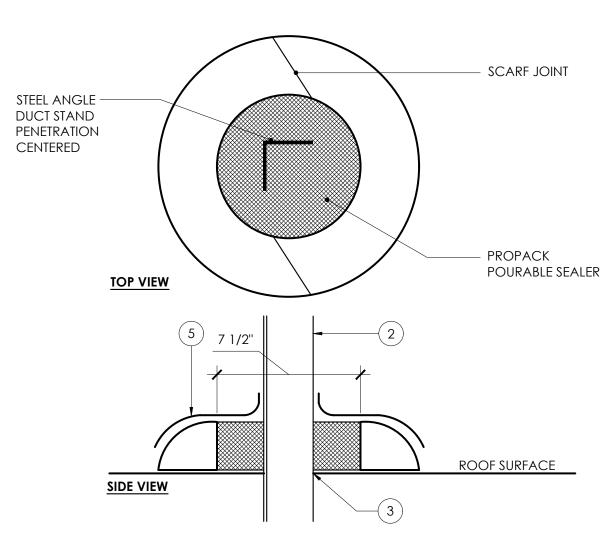
- REMOVE EXISTING PITCH PAN AND THOROUGHLY CLEAN ALL PENETRATIONS. EMPLOY A LICENSED TRADESMAN TO DISCONNECT ELECTRICAL LINES, RECONNECT AND TEST SYSTEM UPON COMPLETION.
- PROVIDE NEW GALVANIZED METAL CONDUIT WHERE EMT LINES PENETRATE ROOF DECK - EXTEND 12" ABOVE ROOF AND ANCHOR SECURELY TO JOISTS BELOW. INSTALL NEW 45 DEG. TRANSITION FITTING AND NEW "WEATHER TIGHT" FLEXIBLE CONDUIT TO JUNCTION BOX ON MECH. UNIT, WHERE REQUIRED.
- 3. SEAL OPENING AROUND DECK PENETRATION WITH OAKUM OR INSULATION MATERIAL.

NOT TO SCALE

TYPICAL PRE-MANUFACTURED PITCH POCKET (CHEM-CURB)

2

- 4. SPACE ALL PENETRATIONS A MINIMUM OF ONE-INCH APART PRIOR TO APPLICATION OF POURABLE SEALANT (TYPICAL).
- 5. INSTALL LEAD FLASHING OVER PITCH PAN, SECURED WITH NEW STAINLESS STEEL DRAWBANDS.
- 6. CONTRACTOR SHALLOW FOLLOW THE PRINTED MANUFACTURER'S APPLICATION INSTRUCTIONS. FIELD VERIFY EXISTING PENETRATIONS AND SELECT PROPER SIZE (PROVIDE STRAIGHT SECTIONS WHERE



#### DRAWING NOTES:

- 1. REMOVE EXISTING PITCH PAN AND THOROUGHLY 5. INSTALL LEAD FLASHING OVER PITCH PAN, CLEAN ALL PENETRATIONS. EMPLOY A LICENSED TRADESMAN TO DISCONNECT ELECTRICAL LINES, RECONNECT AND TEST SYSTEM UPON COMPLETION.
- REPLACE EXISTING STEEL ANGLE SUPPORT POST WITH NEW GALVANIZED STEEL SUPPORT POST TO MATCH EXISTING SIZE. RE-ANCHOR SECURELY TO STRUCTURE BELOW DECK SAME AS EXISTING.
- 3. SEAL OPENING AROUND DECK PENETRATION WITH OAKUM OR INSULATION MATERIAL.

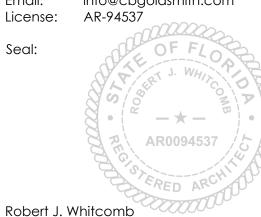
NOT TO SCALE

4. SPACE ALL PENETRATIONS A MINIMUM OF ONE-INCH APART PRIOR TO APPLICATION OF POURABLE SEALANT (TYPICAL).

## C. B. GOLDSMITH AND ASSOCIATES, INC.

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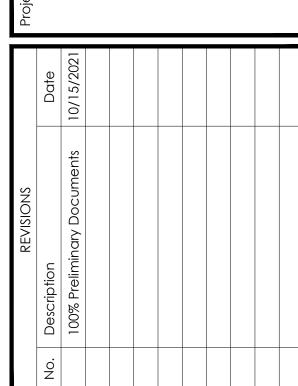
Email: info@cbgoldsmith.com AR-94537 License:



Consultant:

Client: HILLSBOROUGH COUNTY SCHOOLS Construction Operations Division 1202 East Palm Avenue Tampa, Florida 33605-3512





100252 Owner Project ID.: 202109 Architect's Project No.: Drawn By: RW Checked By: 10/15/2021

DETAILS

Revision No.

EXTEND SIDE LAP ONE (1) FULL

CORRUGATION PAST OUTSIDE

EDGE OF HOLE

REQUIRED).

SECURED WITH NEW STAINLESS STEEL DRAWBANDS.

MANUFACTURER'S APPLICATION INSTRUCTIONS.

FIELD VERIFY EXISTING PENETRATIONS AND SELECT

PROPER SIZE (PROVIDE STRAIGHT SECTIONS WHERE

6. CONTRACTOR SHALLOW FOLLOW THE PRINTED

## 

TYPICAL PRE-MANUFACTURED PITCH POCKET (CHEM-CURB)

#### DRAWING NOTES:

- 1. EXISTING STEEL ROOF DECK. VERIFY EXISTING CONDITIONS.
- 2. EXISTING ROOF JOIST.
- 3. TYPICAL 12-IN. (& SMALLER) HOLE IN EXISTING DECK TO BE COVERED.
- 4. INSTALL NEW STEEL ROOF DECK TO MATCH EXISTING GAUGE AND PROFILE.
- 5. TWO (2) ROWS #12 TEK SCREWS AT 6-IN. O. C., EACH END (TYPICAL)
- 6. #12 TEK SCREWS, 6-IN. O.C., EACH SIDE (TYPICAL).

# ✓ VERIFY — ✓

THRU-WALL PRIMARY SCUPPER WITH COLLECTOR BOX

DRAWING NOTES:

STAINLESS BAR STOCK.

FABRICATE SCUPPER AND COLLECTOR BOX OUT OF 24 GA.

STAINLESS STEEL. POP RIVET AND SOLDER SOLID ALL JOINTS.

SUPPORT BRACKET TO BE FABRICATED FROM 3/16" X 1-1/2"

#### **DRAWING NOTES:**

- EXISTING PLUMBING VENT STACK (VTR). VERIFY SIZE AND HEIGHT OF PIPE.
- 3. NEW GYPSUM ROOF (COVER) BOARD.
- 6. NEW REINFORCING FABRIC. EXTEND FABRIC 3-INCHES (MINIMUM) ONTO ROOF AND UP PIPE PENETRATION. FULLY ENCAPSULATE FABRIC IN LIQUID FLASHING BASE COAT. TRIM FABRIC IN A TRADITIONAL "FINGER JOINT" PATTERN AND EMBED IN THE BASE AND TOP LAYER OF LIQUID FLASHING.

**NOTE:** IN CONDITIONS WHERE METAL VENT PIPE IS TOO SHORT (LESS THAN 8-INCHES), INSTALL PRE-MANUFACTURED

PIPE INSERT PER DETAIL 20/A-503.

7. ALLOW BASE COAT TO CURE 60 MINUTES BEFORE APPLYING NEW FINISH COAT. INSTALL LOOSE GRANULES OVER WET FINISH COAT.

#### **DRAWING NOTES:**

A-503 NOT TO SCALE

- 1. EXISTING PLUMBING VENT STACK (VTR). VERIFY SIZE 6. AND HEIGHT OF PIPE.
- 2. NEW SPECIFIED INSULATION SYSTEM.
- 3. NEW GYPSUM ROOF (COVER) BOARD.
- 4. PROVIDE NEW TUBOS PREFABRICATED VENT PIPE EXTENSION, AS NEEDED TO BRING VTR TO 8-IN. (MIN) ABOVE TOP OF NEW ROOFING.
- 5. NEW SPECIFIED ROOFING SYSTEM.
- PREPARE SURFACES, MASK OFF AREA AND APPLY NEW LIQUID FLASHING BASE COAT OVER SPECIFIED PRIMER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALLOW PRIMER 30 MINUTES TO CURE PRIOR TO APPLYING LIQUID FLASHING.
- 7. NEW REINFORCING FABRIC. EXTEND FABRIC 3-INCHES (MINIMUM) ONTO ROOF AND UP PIPE PENETRATION. FULLY ENCAPSULATE FABRIC IN LIQUID FLASHING BASE COAT. TRIM FABRIC IN A TRADITIONAL "FINGER JOINT" PATTERN AND EMBED IN THE BASE AND TOP LAYER OF LIQUID FLASHING.
- 8. ALLOW BASE COAT TO CURE 60 MINUTES BEFORE APPLYING NEW FINISH COAT. INSTALL LOOSE GRANULES OVER WET FINISH COAT.

#### **DRAWING NOTES:**

- REQ'D. VERIFY EXISTING CONDITIONS.
- 2. REMOVE EXISTING CURB AND/OR ROOF ACCESSORY TO PROVIDE ACCESS FOR THE WORK, WHERE REQUIRED.
- 3. INSTALL NEW 16 GA STEEL ZEE ANGLE AROUND PERIMETER OF OPENING. SECURE ZEE TO DECK WITH SPECIFIED FASTENERS AT EACH FLUTE OR 6-IN. O.C. (TYPICAL).
- 4. NEW 22 GA STEEL "B" DECKING CUT TO FIT OPENING. INSTALL DECK TO SPAN SHORT DIMENSION. SECURE WITH NEW #10-16x3/4-IN. HWH, #1 POINT TEKS SCREW AT 6-IN. O.C. (EVERY FLUTE).
- 1. EXISTING ROOF DECK TO REMAIN. REPAIR AS 5. NEW INSULATION FILL TO MATCH HEIGHT OF NEW INSULATION.
  - 6. NEW GYPSUM ROOF BOARD.

PROVIDE NEW 5X5X5/16" STEEL ANGLE (TYPICAL). PRE-DRILL CLEARANCE HOLES AT 12" O.C. INSTALL ANGLE TO INSIDE PERIMETER OF CURB STEEL AND PROVIDE INTERMEDIATE SUPPORTS AT OPENINGS GREATER THAN 5-FT. WELD OR MECHANICALLY ATTACH ABUTTING ANGLES TO PERIMETER ANGLE

7. NEW SPECIFIED ROOFING SYSTEM. NOTE: FOR ROOF OPENINGS LARGER THAT 36-IN.

SECURE WITH NEW 12-24x1.5" (TEK5) HWH SCREWS.

INFILL ROOF REPAIR AT AVERAGE DECK PENETRATIONS (12-IN. TO 36-IN. IN SIZE) DECK REPAIR AT MINOR PENETRATIONS (12-IN. OR LESS IN SIZE)

2. NEW INSULATION SYSTEM.

4. NEW SPECIFIED ROOFING SYSTEM.

PREPARE SURFACES, MASK OFF AREA AND APPLY NEW LIQUID FLASHING BASE COAT OVER SPECIFIED PRIMER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALLOW PRIMER 30 MINUTES TO CURE PRIOR TO APPLYING LIQUID FLASHING.

TYPICAL VENT THRU ROOF (WITH LIQUID FLASHING)

NOT USED

A-503 NOT USED

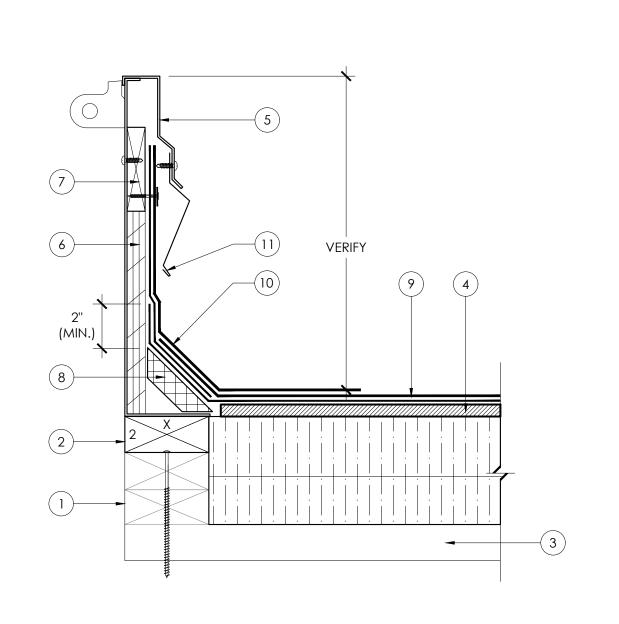
TYPICAL VENT THRU ROOF (WITH EXTENDER)

A-503 NOT USED

A-503 NOT USED

Sheet Number: A-503

Sheet Title:



#### **DRAWING NOTES:**

REQUIRED.

A-504

- EXISTING WOOD BLOCKING. VERIFY AND REPLACE 6. NEW CURB INSULATION BOARD. IF DETERIORATED.
- 2. ADD NEW WOOD BLOCKING TO HEIGHT OF NEW INSULATION
- EXISTING STEEL DECK TO REMAIN, REPAIR AS

COVER AND REINSTALL HARDWARE.

ROOF HATCH FLASHING DETAIL

NOT TO SCALE

(4)

**DRAWING NOTES:** 

COVER BOARD.

- NEW SPECIFIED INSULATION SYSTEM AND GYPSUM COVER BOARD.
- EXISTING ROOF SCUTTLE (HATCH). REMOVE AND REINSTALL ON NEW WOOD BLOCKING. REMOVE EXISTING HARDWARE, PAINT EXISTING HATCH
- 7. NEW PT WOOD NAILER.
- 8. NEW PRE-MOLDED CANT STRIP.
- 9. NEW SPECIFIED ROOFING SYSTEM.

(MIN.)

- 10. NEW SPECIFIED 2-PLY BASE FLASHING.
- 11. NEW SPECIFIED SKIRT METAL FLASHING. SHOP FABRICATE TO CONFIGURATION INDICATED. WELD SOLID EACH CORNER. LAP METAL IN CENTER OF CURB 4-IN. - APPLY SEALANT BETWEEN METAL AT LAP. SECURE TO CURB WITH SPECIFIED FASTENERS 12-IN. O.C. (EQUALLY SPACED).

NEW 16 GA. GALV. BENT PLATE. SECURE PLATES

TO SIDE OF METAL CURB WITH #12x1" HWH TEK

#10-13x1.5" GP 302 S.S. CONCEALOR SCREWS

NEW 0.050-IN. ALUM. OFFSET FLASHING. SHOP

FABRICATE IN ONE PIECE TO CONFIGURATION

SECURE TO CURB WITH SPECIFIED FASTENERS

10. NEW/EXISTING VENTILATOR FAN WITH FLASHING

MECHANICAL/ ELECTRICAL LINES, AS

FLANGE. DISCONNECT FAN, EXTEND DUCT AND

REQUIRED, AND RECONNECT. FASTEN TO CURB

WITH SPECIFIED S.S. FASTENERS (12" O.C. OR 2

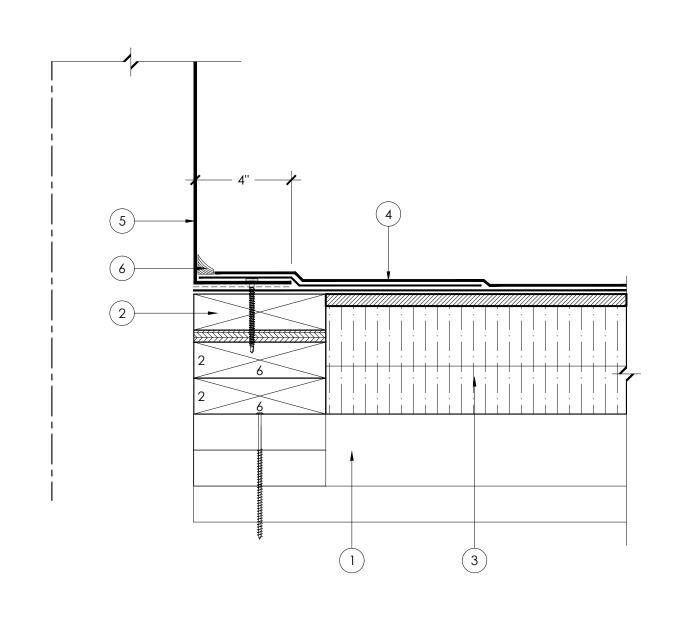
INDICATED. WELD SOLID EACH CORNER.

12-IN. O.C. (EQUALLY SPACED)

SCREWS AND NEW WOOD NAILER WITH

AT (2) PER SIDE.

PER SIDE, MINIMUM).



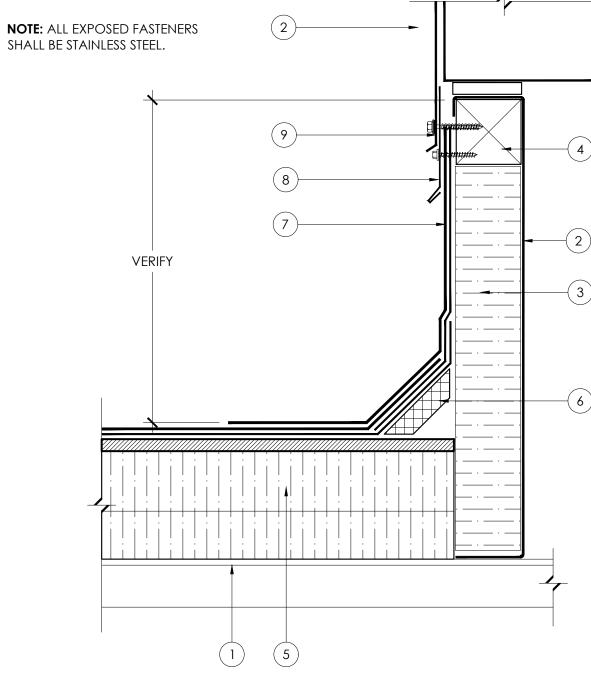
#### **DRAWING NOTES:**

A-504 NOT TO SCALE

- 1. EXISTING CONSTRUCTION AND ROOF DECK, TO REMAIN. REPAIR AS REQUIRED.
- 2. NEW PT WOOD NAILERS. CUT EXISTING ROOFING (AS REQUIRED) AND INSTALL NAILERS TO MATCH TOTAL HEIGHT OF NEW INSULATION. SECURE TO DECK WITH SPEC'D FASTENERS. SHIM WITH PLYWOOD AS REQ'D.
- 3. NEW SPECIFIED INSULATION SYSTEM AND GYPSUM COVER BOARD.

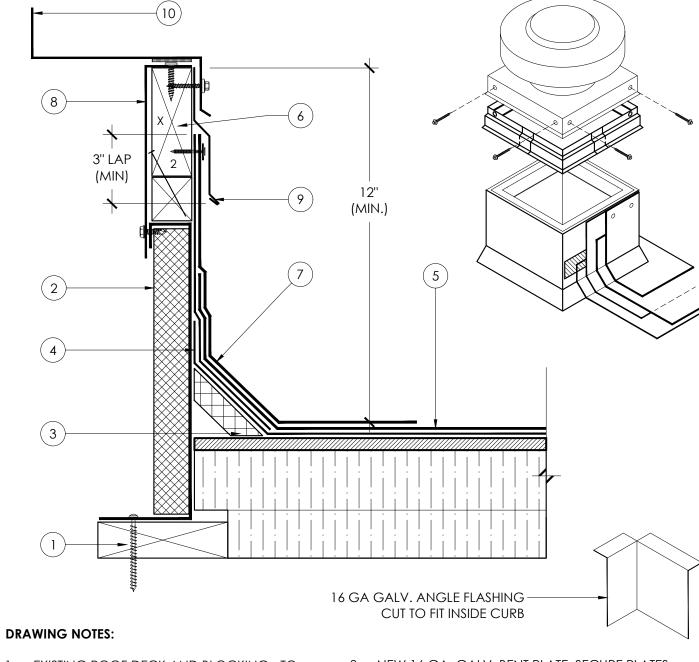
TYPICAL SELF FLASHING FLANGED ACCESSORY

- 4. NEW SPECIFIED ROOFING SYSTEM.
- 5. NEW OR EXISTING SELF-FLASHING METAL ACCESSORY. PRIME BOTH SIDES OF METAL FLANGE AND SET IN A BED OF ROOFING CEMENT. SECURE TO NAILER 6-IN. O.C. AROUND PERIMETER. (TYPICAL).
- WHERE NOTED ON THE DRAWINGS, FABRICATE NEW ACCESSORY OF 22 GA STAINLESS STEEL TO MATCH CONFIGURATION OF EACH COMPONENT. POP RIVET AND SOLDER ALL JOINTS. ALTERNATE: 0.050" WELDED ALUM.
- 6. INSTALL CONTINUOUS BEAD OF SPECIFIED SEALANT AROUND PERIMETER OF VENT. TOOL AS NECESSARY TO PROVIDE A UNIFORM, SLOPING, FULLY ADHERED SEALANT BEAD.



#### **DRAWING NOTES:**

- 1. EXISTING STEEL DECK TO REMAIN, REPAIR AS REQUIRED.
- 2. NEW OR EXISTING MECH EQUIP (LARGE FAN OR DUCT) AND CURB. EXTEND DUCT AND MECHANICAL/ELECTRICAL LINES, AS REQUIRED, AND RECONNECT.
- 3. NEW INSULATION, SET IN ROOF CEMENT.
- 4. PROVIDE NEW PT WOOD NAILER WHERE NONE
- 5. NEW INSULATION AND GYPSUM ROOF (COVER) BOARD.
- 6. NEW PRE-MOLDED CANT STRIP, SET IN ROOF
- 7. NEW SPECIFIED ROOFING AND BASE FLASHING SYSTEM.
- 8. NEW .050-IN. ALUM. SKIRT FLASHING. SHOP FABRICATE TO CONFIGURATION AS SHOWN. PROVIDE DRIP AND HEM EDGE. PRE-DRILL ALL HOLES. SECURE WITH SPECIFIED FASTENERS 12" O.C.
- 9. REINSTALL EXISTING METAL COVER FLASHING FLANGE. FASTEN TO CURB WITH SPECIFIED FASTENERS (12" O.C. 2 PER SIDE MINIMUM).



1. EXISTING ROOF DECK AND BLOCKING - TO REMAIN. REPAIR AS REQUIRED.

2. EXIST. MECHANICAL CURB. REFASTEN BETWEEN

- EACH SCREW. VERIFY CURB TYPE.
- 3. NEW SPECIFIED INSULATION AND GYPSUM COVER BOARD.
- 4. NEW PRE-MOLDED CANT STRIP.
- 5. NEW SPECIFIED ROOFING SYSTEM.

NOT TO SCALE

A-504

NEW PT 2x NAILER (CURB EXTENSION). ANCHOR SECURELY TO TOP OF EXISTING CURB WITH SPECIFIED FASTENERS.

TYPICAL VENT CURB FLASHING

- 7. NEW SPECIFIED 2-PLY BASE FLASHING.
- 8. NEW 16 GA. GALV. BENT PLATE. SECURE PLATES TO SIDE OF METAL CURB WITH #12x1" HWH TEK SCREWS AND NEW WOOD NAILER WITH #10-13x1.5" GP 302 S.S. CONCEALOR SCREWS AT (2) PER SIDE. ISOLATE METAL WITH NEW FOAM BACKER TAPE.
- 9. NEW 0.050-IN. ALUM. SKIRT METAL FLASHING. SHOP FABRICATE TO CONFIGURATION INDICATED. WELD SOLID EACH CORNER. LAP METAL IN CENTER OF CURB 4-IN. - APPLY SEALANT BETWEEN METAL AT LAP. SECURE TO CURB WITH SPECIFIED FASTENERS 12-IN. O.C. (EQUALLY SPACED)
- 10. NEW/EXISTING VENTILATOR FAN WITH FLASHING FLANGE. DISCONNECT FAN, EXTEND DUCT AND MECHANICAL/ ELECTRICAL LINES, AS REQUIRED, AND RECONNECT. FASTEN TO CURB WITH SPECIFIED S.S. FASTENERS (12" O.C. OR 2 PER SIDE, MINIMUM).

#### C. B. GOLDSMITH AND ASSOCIATES, INC. Building Sciences - Roofing and Exterior Envelope Consulting - Forensic Architecture 2555 Nursery Road Clearwater, Florida 33764 Phone: 727.540.0456 info@cbgoldsmith.com Email: AR-94537 License:

Robert J. Whitcomb

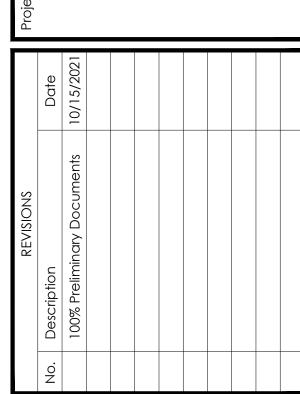
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**NOTE:** ALL EXPOSED

FASTENERS SHALL BE

STAINLESS STEEL.



#### 100252 Owner Project ID.: 202109 Architect's Project No.: RW Checked By: 10/15/2021 DETAILS

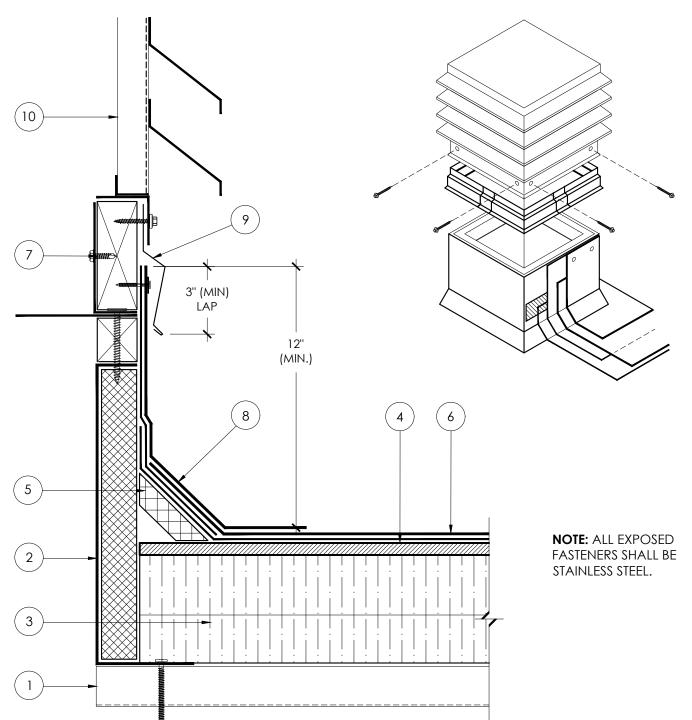
Revision No.

#### 9. NEW SPECIFIED SKIRT METAL FLASHING. SHOP FABRICATE TO CONFIGURATION INDICATED. WELD EACH CORNER. LAP METAL IN CENTER OF CURB Drawn By: 4-IN., APPLY SEALANT BETWEEN METAL AT LAPS. SECURE TO CURB WITH SPECIFIED FASTENERS 12-IN.

Sheet Title:

Sheet Number:

EQUIPMENT CURB DETAIL A-504 NOT TO SCALE



**DRAWING NOTES:** 1. EXISTING ROOF DECK, TO REMAIN.

- 2. EXISTING MECHANICAL CURB.
- 3. NEW INSULATION SYSTEM.
- 4. NEW GYPSUM ROOF (COVER) BOARD. 5. NEW PRE-MOLDED CANT STRIP.
- 6. NEW SPECIFIED ROOFING SYSTEM.
- 7. NEW PT 2x NAILER (CURB EXTENSION). ANCHOR SECURELY TO TOP OF EXISTING CURB WITH SPECIFIED FASTENERS OR PROVIDE NEW PRE-MANUFACTURED CURB TO MEET REQUIRED HEIGHT SHOWN.
- 8. NEW SPECIFIED 2-PLY BASE FLASHING.
- 9. NEW SPECIFIED SKIRT METAL FLASHING. SHOP FABRICATE TO CONFIGURATION INDICATED. WELD EACH CORNER. LAP METAL IN CENTER OF CURB 4-IN., APPLY SEALANT BETWEEN METAL AT LAPS. SECURE TO CURB WITH SPECIFIED FASTENERS 12-IN. O.C. (EQUALLY SPACED).
- 10. EXISTING VENTILATOR FAN. VERIFY CONFIGURATION OF HOOD TO DETERMINE BEST WAY TO EXTEND HEIGHT. DISCONNECT FAN, EXTEND MECHANICAL/ELECTRICAL LINES AND DUCT (AS REQUIRED) AND RECONNECT. FASTEN TO CURB WITH SPECIFIED FASTENERS AT 12-IN. ON CENTER (3 PER SIDE, MINIMUM).
- (4) **NOTE:** ALL EXPOSED (2)— FASTENERS SHALL BE STAINLESS STEEL. (3) (1)—

#### **DRAWING NOTES:**

- 1. EXISTING ROOF DECK, TO REMAIN.
- 2. EXISTING MECHANICAL CURB. 3. NEW INSULATION SYSTEM.
- 4. NEW GYPSUM ROOF (COVER) BOARD.
- 5. NEW PRE-MOLDED CANT STRIP.
- 6. NEW SPECIFIED ROOFING SYSTEM.
- NEW PT 2x NAILER (CURB EXTENSION). ANCHOR SECURELY TO TOP OF EXISTING CURB WITH SPECIFIED FASTENERS OR PROVIDE NEW PRE-MANUFACTURED CURB TO MEET REQUIRED HEIGHT SHOWN.
- 8. NEW SPECIFIED 2-PLY BASE FLASHING.
- FABRICATE TO CONFIGURATION INDICATED. WELD EACH CORNER. LAP METAL IN CENTER OF CURB 4-IN., APPLY SEALANT BETWEEN METAL AT LAPS. SECURE TO CURB WITH SPECIFIED FASTENERS 12-IN.

#### 10. EXISTING METAL DUCT EXTENDER.

#### O.C. (EQUALLY SPACED).

11. EXISTING VENTILATOR FAN. VERIFY CONFIGURATION OF HOOD TO DETERMINE BEST WAY TO EXTEND HEIGHT. DISCONNECT FAN, EXTEND MECHANICAL/ELECTRICAL LINES AND DUCT (AS REQUIRED) AND RECONNECT. FASTEN TO CURB WITH SPECIFIED FASTENERS AT 12-IN. ON CENTER (3 PER SIDE, MINIMUM).

- 9. NEW SPECIFIED SKIRT METAL FLASHING. SHOP 2. EXISTING MECHANICAL CURB.
  - 3. NEW INSULATION SYSTEM.

**DRAWING NOTES:** 

4. NEW GYPSUM ROOF (COVER) BOARD.

1. EXISTING ROOF DECK, TO REMAIN.

- 5. NEW PRE-MOLDED CANT STRIP. 6. NEW SPECIFIED ROOFING SYSTEM.

HEIGHT SHOWN.

7. NEW PT 2x NAILER (CURB EXTENSION). ANCHOR SECURELY TO TOP OF EXISTING CURB WITH SPECIFIED FASTENERS OR PROVIDE NEW PRE-MANUFACTURED CURB TO MEET REQUIRED

#### 11. EXISTING VENTILATOR FAN. VERIFY

(4) (6

CONFIGURATION OF HOOD TO DETERMINE BEST WAY TO EXTEND HEIGHT. DISCONNECT FAN, EXTEND MECHANICAL/ELECTRICAL LINES AND DUCT (AS REQUIRED) AND RECONNECT. FASTEN TO CURB WITH SPECIFIED FASTENERS AT 12-IN. ON CENTER (3 PER SIDE, MINIMUM).

TYPICAL VENT CURB FLASHING (WITH OFFSET) NOT TO SCALE

EXISTING ROOF DECK AND BLOCKING - TO

2. EXIST. MECHANICAL CURB. REFASTEN BETWEEN

NEW PT 2x NAILER (CURB EXTENSION). ANCHOR

SECURELY TO TOP OF EXISTING CURB WITH

REMAIN. REPAIR AS REQUIRED.

EACH SCREW. VERIFY CURB TYPE.

4. NEW PRE-MOLDED CANT STRIP.

SPECIFIED FASTENERS.

5. NEW SPECIFIED ROOFING SYSTEM.

7. NEW SPECIFIED 2-PLY BASE FLASHING.

3. NEW SPECIFIED INSULATION AND GYPSUM

EXHAUST FAN / EQUIPMENT CURB WITH SKIRT AND EXTENDER A-504 NOT TO SCALE

A-504

NOT TO SCALE

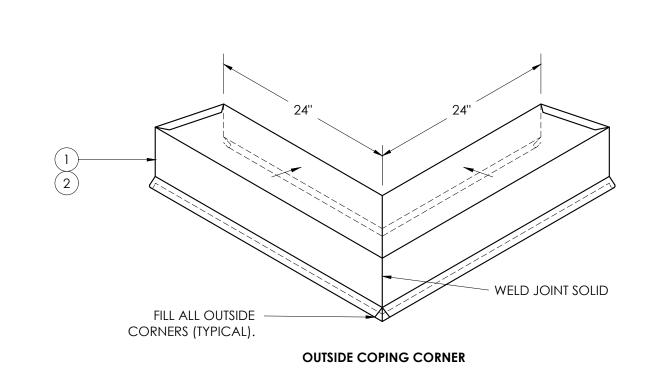
EXHAUST FAN / EQUIPMENT CURB WITH SKIRT AND EXTENDER A-504 NOT TO SCALE

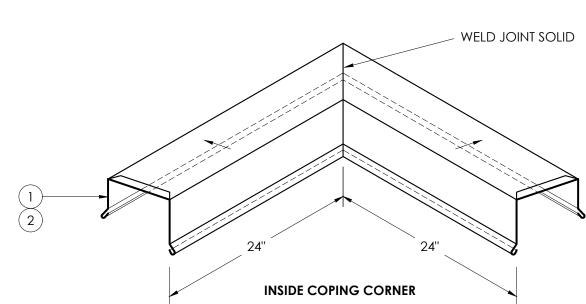
EXHAUST FAN / EQUIPMENT CURB WITH SKIRT AND EXTENDER

O.C. (EQUALLY SPACED) 10. EXISTING FLASHING ADAPTER.

8. NEW SPECIFIED 2-PLY BASE FLASHING.

A-504





NOTE: VERIFY FIELD DIMENSIONS AND ANGLES PRIOR TO FABRICATION - FIELD TEMPLATE WHERE REQUIRED.

FIELD VERIFY

SLOPE

#### **DRAWING NOTES:**

A-505

NOT TO SCALE

CHAMFER

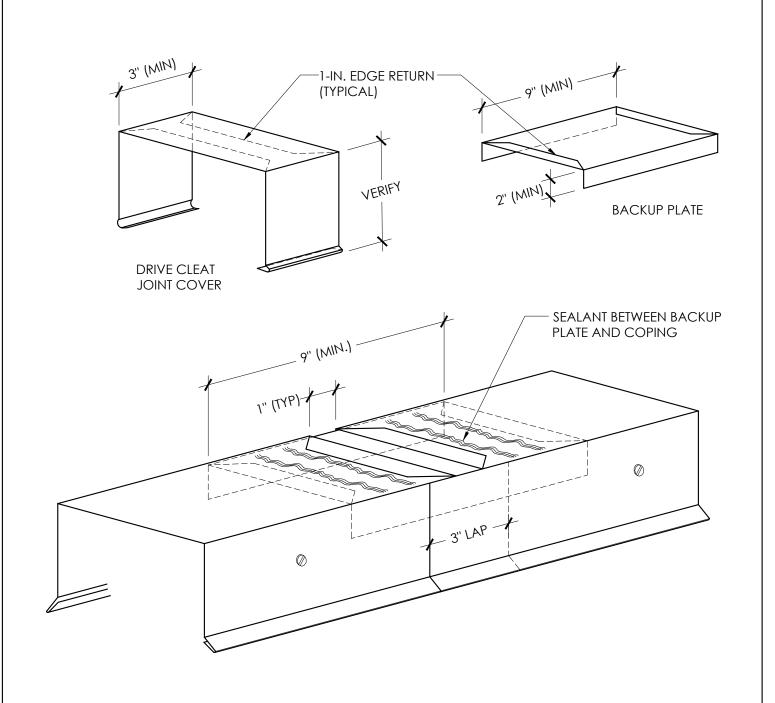
CORNER

EXTEND EPDM -2" BELOW DRIP

1. NEW SPECIFIED COPING CAP. SLOPE TO DRAIN ON ROOF (TYPICAL).

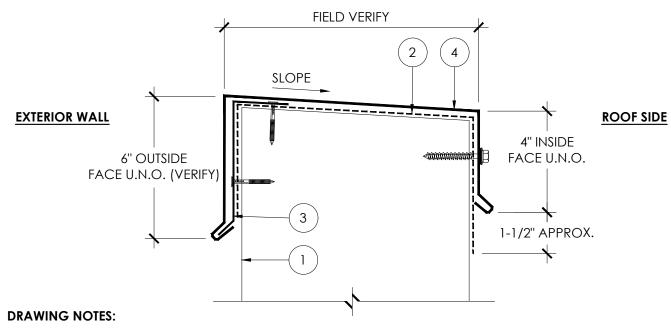
TYPICAL COPING CORNER TRANSITIONS (ANY ANGLE)

- SHOP ALL TRANSITIONS 24-IN. FROM EDGE TO CONFIGURATION AS SHOWN. WELD ALL MITERS AND CORNERS TO FORM ONE CONTINUOUS PIECE. ALL JOINTS SHALL BE WELDED.
- APPLY CONTINUOUS BEAD OF SPECIFIED SEALANT IN FLARED EDGE. TOOL AS NECESSARY TO PROVIDE UNIFORM, SLOPING, FULLY ADHERED SEALANT BEAD (TYPICAL).



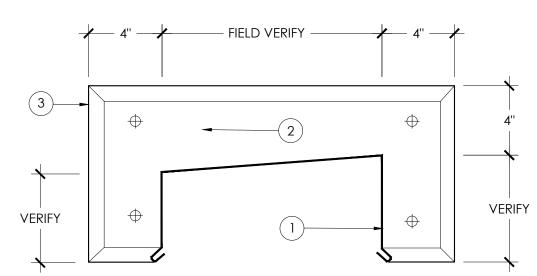
#### **DRAWING NOTES:**

- 1. VERTICAL FACE DIMENSIONS TO BE 4-IN. MINIMUM, 7. ADD NAILERS TO PARAPET WALL TO MAINTAIN 8-IN. AND 10-IN. MAXIMUM (WITHOUT STIFFENER OR SKIRT EXTENDER).
- 2. CONTINUOUS CLEATS REQUIRED.
- 3. BACKUP PLATES ARE REQUIRED.
- 4. CLOSE CLEAT RECEIVERS TIGHT TO CLEAT CONTINUOUSLY.
- 5. LAP VERTICAL "LEGS" OF COPING 3-IN. MINIMUM.
- 6. PROVIDE POSITIVE SLOPE TO ROOF. REFER TO TYPICAL DETAIL. ADD SHIMS AS REQUIRED.
- ABOVE ROOF SURFACE. TYPICAL.
- 8. DO NOT USE DRIVE CLEATS ON STEEP SLOPE WALLS OF 2:12 AND GREATER.
- 9. ADD METAL SKIRTS TO WALL FACE UNDER COPING TO EXTEND FACE TO COVER NAILERS.
- 10. LINE UP COVER PLATES WHERE A SKIRT METAL IS
- 11. REFER TO FASTENER SCHEDULE.



#### 1. EXISTING PARAPET WALL. REPLACE DETERIORATED WOOD NAILERS PER UNIT COST. FIELD VERIFY.

- 2. NEW CONTINUOUS SHEET OF 45 MIL EPDM MEMBRANE. SEAL ALL LAPS WITH SPECIFIED ADHESIVE OR SEAM TAPE. EXTEND EPDM MEMBRANE BELOW INSIDE FLANGE APPROX. 2-IN. AND TRIM EVEN WITH COPING METAL AFTER SUBSTANTIAL COMPLETION.
- 3. NEW CONTINUOUS CLEAT. FASTEN 6" O.C.
- 4. NEW SPECIFIED COPING CAP. SHOP FABRICATE AND WELD SOLID ALL TRANSITIONS. ENGAGE SECURELY TO WIND CLEAT AND FASTEN TO INSIDE FLANGE OF COPING CAP @ 12-IN. O.C. (TYPICAL). CONNECT END PIECES WITH NEW DRIVE CLEATS.



#### **DRAWING NOTES:**

NOT TO SCALE

(MINIMUM)

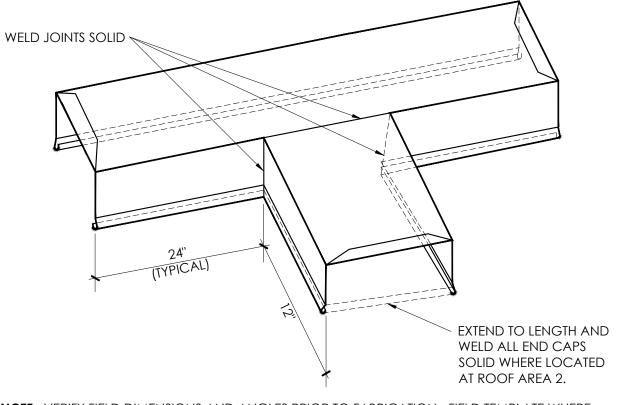
1. NEW SPECIFIED COPING CAP. REFER TO TYPICAL DETAIL.

ALUMINUM COPING CAP DETAIL AND END PLATE FLASHING

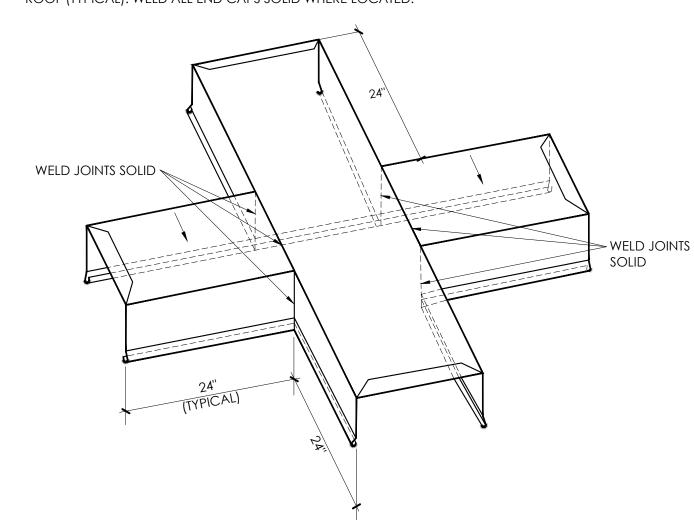
- 2. SHOP FABRICATE END TRANSITIONS 24-IN. FROM EDGE TO CONFIGURATION AS SHOWN.
- 3. APPLY CONTINUOUS BEAD OF SPECIFIED SEALANT IN FLARED EDGE. TOOL AS NECESSARY TO PROVIDE UNIFORM, SLOPING, FULLY ADHERED SEALANT BEAD (TYPICAL).

1/2 E \_ 1/2 E

4. FIELD TEMPLATE AND SHOP FABRICATE ALL TRANSITIONS, ALL JOINTS SHALL BE WELDED SOLID.



**NOTE:** VERIFY FIELD DIMENSIONS AND ANGLES PRIOR TO FABRICATION - FIELD TEMPLATE WHERE REQUIRED. WELD ALL MITERS AND CORNERS TO FORM ONE CONTINUOUS PIECE. SLOPE TO DRAIN ON ROOF (TYPICAL). WELD ALL END CAPS SOLID WHERE LOCATED.

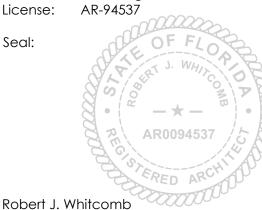


**NOTE:** VERIFY FIELD DIMENSIONS AND ANGLES PRIOR TO FABRICATION - FIELD TEMPLATE WHERE REQUIRED. WELD ALL MITERS AND CORNERS TO FORM ONE CONTINUOUS PIECE. SLOPE TO DRAIN ON ROOF (TYPICAL). WELD ALL END CAPS SOLID WHERE LOCATED.

ALUMINUM COPING CAP TRANSITION AND WALL END DETAILS



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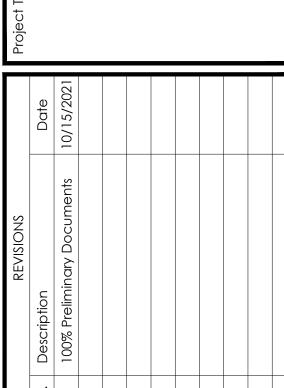


Consultant:

Seal:

Client:

HILLSBOROUGH COUNTY SCHOOLS Construction Operations Division 1202 East Palm Avenue Tampa, Florida 33605-3512



#### 5. NEW SPECIFIED EXPANSION JOINT COVER. ENGAGE CLEAT SECURELY. SHOP FABRICATE ALL TRANSITIONS, CORNERS, BENDS AND END CONDITIONS AT 24-INCHES AND INSTALL FIRST. TAPER CURB AT EDGE FASCIA CONDITION, AS

PROVIDE 1-INCH STANDING SEAMS AT ALL JOINTS.

Owner Project ID.:	100252
Architect's Project No.:	202109
Drawn By:	PT
Checked By:	RW
Date:	10/15/2021
Sheet Title:	
DETAILS	

SECURELY BY USE OF A HOOK SEAM TO EXPANSION

Revision No.:

Sheet Number: A-505

TYPICAL COPING LAP DETAIL A-505 NOT TO SCALE

#### **DRAWING NOTES:**

- ACCESS FOR THE WORK.
- 4. NEW SPECIFIED INSULATION SYSTEM.
- 5. NEW SPECIFIED GYPSUM ROOF (COVER) BOARD.
- 6. NEW CANT STRIP, SET IN ROOF CEMENT.
- 7. NEW SPECIFIED ROOF SYSTEM AND 2-PLY BASE
- 8. NEW REGLET COUNTER FLASHING. SECURE TO REGLET WITH NEW S.S. SHEET METAL SCREWS AT 12" O.C. (TYPICAL).

#### **DRAWING NOTES:**

- 1. EXISTING CONCRETE STRUCTURE AND/OR ROOF DECK, TO REMAIN.
- 2. EXISTING EXPANSION JOINT CURB CONSTRUCTION, TO REMAIN. INSTALL NEW PT WOOD TO ACHIEVE 10-IN. (MIN.) CURB HEIGHT, AS SHOWN. ANCHOR SECURELY WITH SPECIFIED FASTENERS. REPLACE WOOD WITH NEW WHERE MISSING AND/OR DETERIORATED.
- 3. INSTALL NEW 2X PT WOOD BLOCKING TO MATCH HEIGHT OF INSULATION.
- 4. NEW SPECIFIED INSULATION SYSTEM AND GYPSUM COVER BOARD.
- 5. NEW PRE-MOLDED CANT STRIP, SET IN ROOF CEMENT.
- 6. NEW BATT INSULATION IN FELT FOLD FULL HEIGHT OF CURB.
- 8. NEW CONT'S SHEET OF 45 MIL EPDM MEMBRANE. SEAL ALL LAPS.

7. NEW SPECIFIED ROOFING AND BASE FLASHING.

- 9. NEW EXP. JOINT CLEAT SHOP FABRICATE AS SHOWN. SECURE TO NAILER AT 6-IN. O.C. WITH SPECIFIED FASTENERS.
- EDGE(S). ENGAGE TO CLEAT AND SECURE AT 18-IN. O.C. WITH SPEC'D FASTENERS IN SLOTTED HOLES. CONNECT PIECES WITH 1-IN. STANDING

#### 10. NEW EXP. JOINT COVER - SHOP FABRICATE ALL TRANSITIONS, CORNERS, AND BENDS 24-IN. FROM

SEAMS.

EXPANSION JOINT END TRANSITION

CMU-MASONRY AND BRICK VENEER PARAPET COPING DETAIL (TYPICAL) NOT TO SCALE

FLASHING AND BRICK VENEER TRANSITION DETAIL (TYPICAL) A-505 NOT TO SCALE

A-505

NOT TO SCALE

ROOF-TO-ROOF EXPANSION JOINT

A-505

**DRAWING NOTES:** 

FLASHING.

1. INSTALL NEW SPECIFIED ROOFING AND BASE

3. NEW SPECIFIED FACE PLATE. FABRICATE TO

COVER AND ENGAGE FASCIA EDGE.

2. NEW PERIMETER EDGE FASCIA. REFER TO TYPICAL

CONFORM TO THE FASCIA PROFILE AND EXTEND

FASTENERS 12-INCHES O.C. IN SLOTTED HOLE. LAP

UP TO EXPANSION COVER. FASTEN FACE PLATE

NEW SPECIFIED EXPANSION CLEAT. ANCHOR

METAL 4-INCHES (MIN.) AND HEM ALL EDGES.

CLEAT TO FACE OF CURB WITH SPECIFIED

NOT TO SCALE

**DRAWING NOTES:** 6. NEW SPECIFIED ROOF SYSTEM AND 2-PLY WALL/ 1. EXISTING FACE BRICK, TO REMAIN. BASE FLASHING. CONTINUE SMOOTH PLY OVER TOP OF PARAPET TO COVER ALL WOOD. EXTEND 2. EXISTING MASONRY-CMU WALL OR PARAPET, TO CAP PLY TO TOP TO WALL. REMAIN.

7. NEW CONTINUOUS SHEET OF 45 MIL EPDM 3. EXISTING PLYWOOD ON TOP OF PARAPET, TO MEMBRANE. SEAL ALL LAPS WITH SPECIFIED REMAIN. RE-SECURE AND/OR ADD WOOD ADHESIVE OR SEAM TAPE. EXTEND 2-IN. BELOW SPACER IF PLYWOOD IS BEND. REPLACE WHERE INSIDE FACE OF COPING. DETERIORATED.

NEW SPECIFIED INSULATION AND GYPSUM ROOF

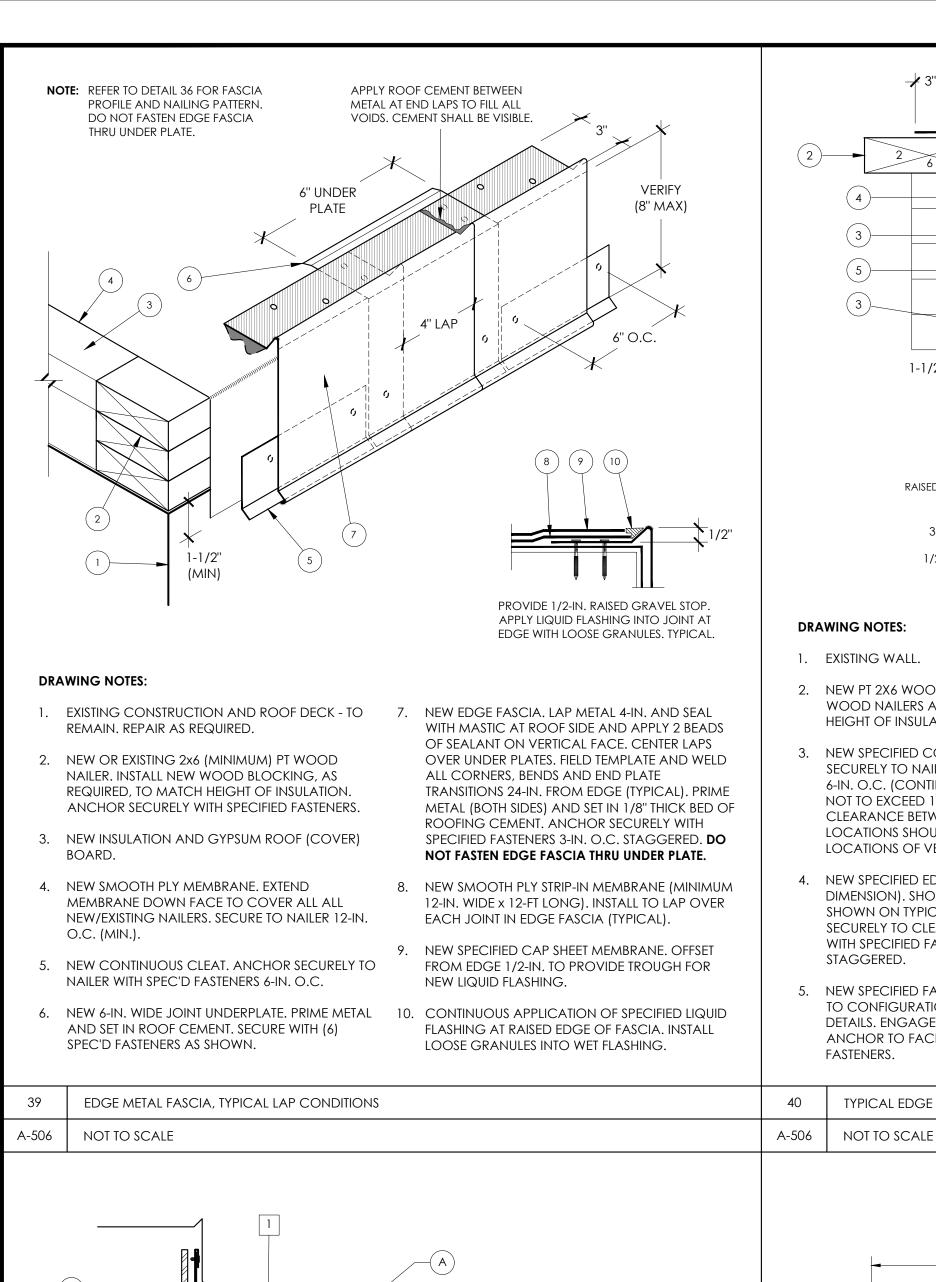
(COVER) BOARD.

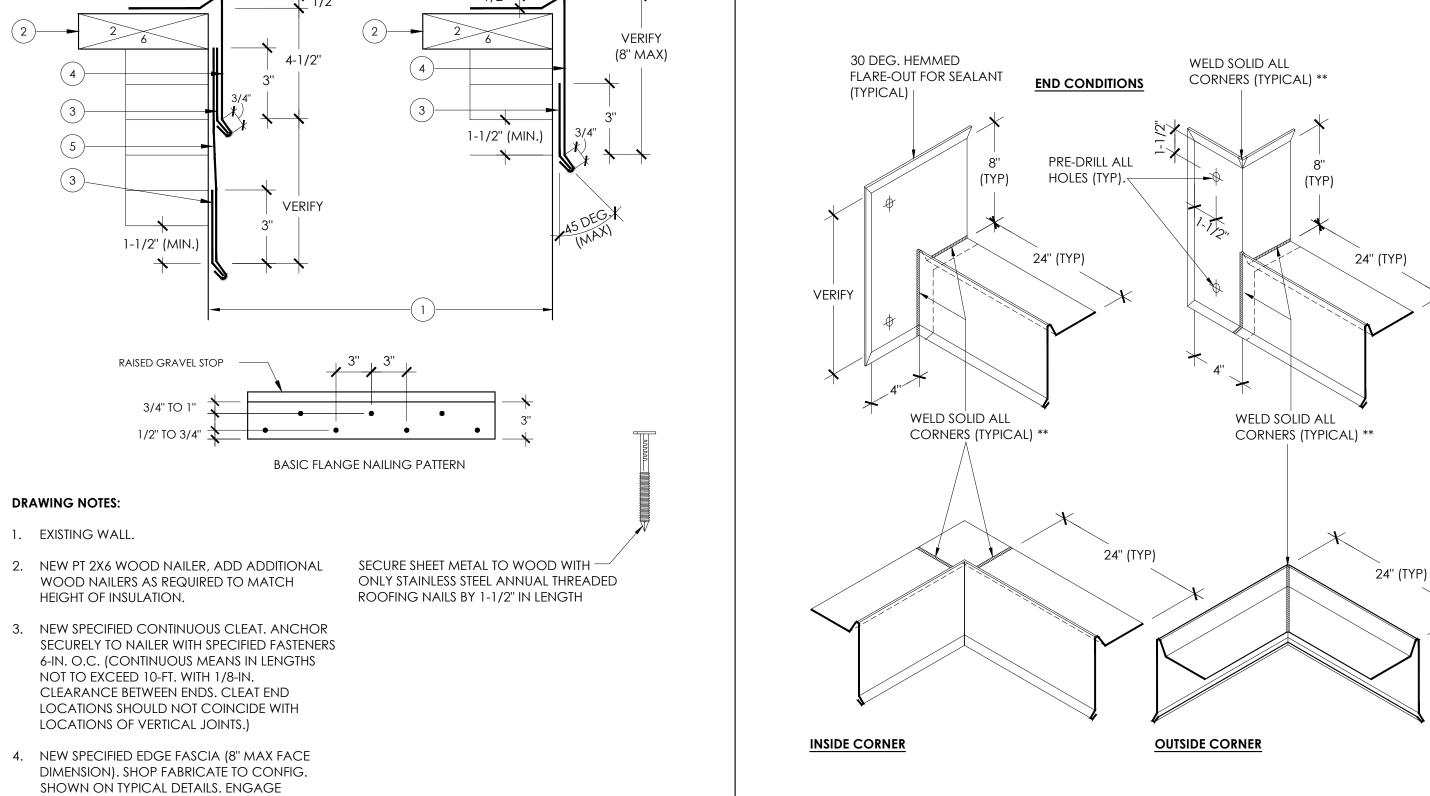
NEW CONTINUOUS CLEAT. SECURE TO WOOD 4. NEW 3/4-INCH PT PLYWOOD. CHAMFER CORNER BLOCKING AT 6-IN. O.C. OF PLYWOOD AS SHOWN. SECURE TO CONCRETE TIE BEAM WITH SPIKES AT 12" O.C. AND WOOD 9. NEW SPECIFIED COPING CAP. SHOP FABRICATE SCREWS IN FIELD 12" O.C. STAGGERED. ALL TRANSITIONS, CORNERS AND BENDS 24-IN. FROM EDGE. WELD ALL JOINTS SOLID. ENGAGE

SECURELY TO CLEAT AND FASTEN 12-IN. O.C.

REFER TO TYPICAL DETAILS 31 THRU 34/A-505.

- EXISTING MASONRY WALL.
- 2. EXISTING BRICK VENEER.
- 3. EXISTING THROUGH WALL REGLET FLASHING. DISENGAGE COUNTER FLASHING TO PROVIDE





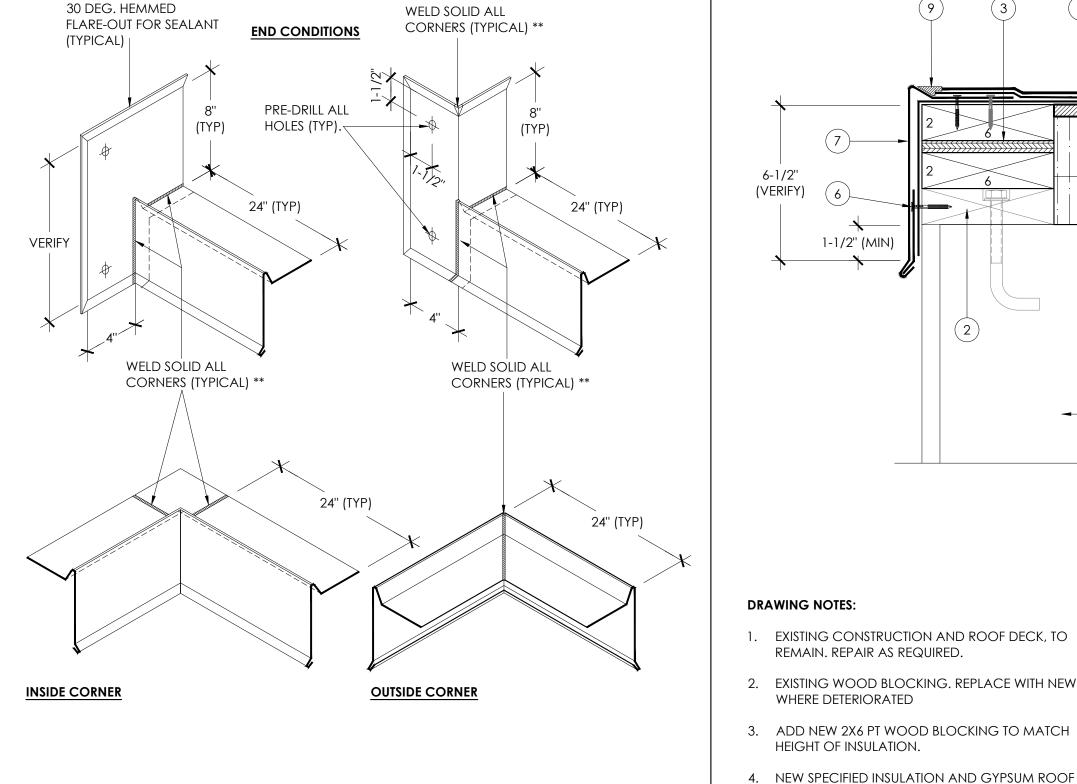
3" (MIN.) VERIFY

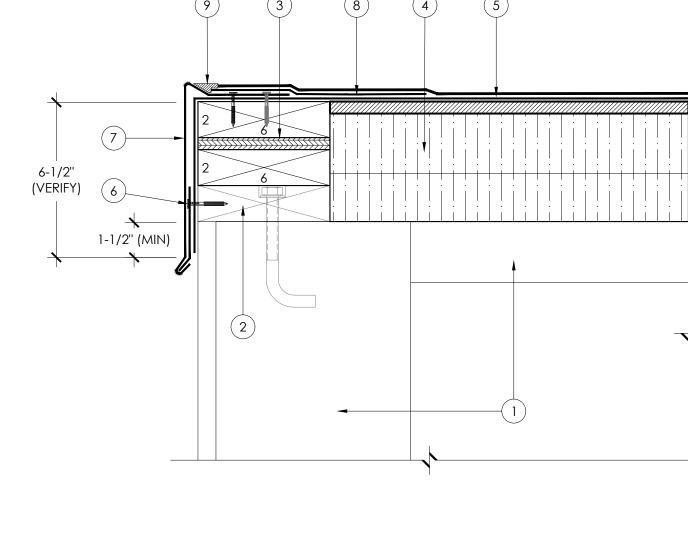
MATERIAL THICKNESS TOLERANCES

FASCIA

CLEAT

(.059"-.067")





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Seal:

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6. NEW CONTINUOUS CLEATS. ANCHOR SECURELY TO 1. EXISTING CONSTRUCTION AND ROOF DECK, TO NAILER WITH SPECIFIED FASTENERS 6-IN OC.

2. EXISTING WOOD BLOCKING. REPLACE WITH NEW 7. NEW METAL EDGE FASCIA. REFER TO TYPICAL DETAIL.

> 8. NEW SMOOTH PLY STRIP-IN MEMBRANE (MINIMUM 12-IN. WIDE x 12-FT LONG). INSTALL TO LAP OVER EACH JOINT IN EDGE FASCIA (TYPICAL).

9. APPLY CONTINUOUS BEAD OF SPECIFIED SEALANT AT RAISED EDGE OF FASCIA. TOOL FIRMLY INTO 5. NEW SPECIFIED ROOFING SYSTEM. CARRY SMOOTH ALL VOIDS. INTERPLY MEMBRANE DOWN FACE TO COVER ALL

0.032-IN. ALUM. "U" EDGING -**GUTTER SCREEN** 

#### **FASTENER SCHEDULE:**

- (A) 1/4" x 1" STAINLESS STEEL BOLT AND NUT WITH COURSE THREAD.
- (B) REFER TO DETAIL 01/A9.1.
- (C) 5/16" STAINLESS STEEL SELF-DRILLING SCREW.

#### MATERIAL DESCRIPTION:

- 1 0.050-IN. ALUMINUM GUTTER, SPACER, OUTLET.
- 2 GUTTER SUPPORT BRACKET AND DOWNSPOUT BRACKET: 1/4" x 1 1/4" ALUMINUM BAR @ 30" O/C. FOR GUTTER BRACKET AND SPACE @ 60" O/C. FOR DOWNSPOUT.
- 3 1/2# .081S. 375" SWO X .937' LWO 60% OPEN AREA 48" LONG MAXIMUM (SOURCE MCNICHOLS 800-237-3820 PAGE No. 17 OF THE 2007 CATALOG - GUTTER SCREEN
- 4 0.050-IN. ALUMINUM DOWNSPOUT

#### NOTES:

- PROVIDE SAMPLE FOR APPROVAL PRIOR TO FABRICATION.
- SLOPE GUTTER TO OUTLETS STANDING WATER IN GUTTER IS NOT ACCEPTABLE. INSTALL EXPANSION JOINTS 50-FT. APART (MAXIMUM).
- REFER TO DETAIL 0031 FOR EXPANSION JOINT DETAIL.
- DOWNSPOUT LOCATION TO BE DETERMINED BY OWNER/DESIGNER IN THE FIELD. APPLY A RIBBON OF SILICONE SEALANT BETWEEN GUTTER AND THE HANGER.
- DO NOT ATTACH GUTTER TO THE BUILDING.

TYPICAL HANGING GUTTER DETAIL

NOT TO SCALE

- GUTTER SIZE MAY BE ADJUSTED WHERE CONDITIONS REQUIRE A SMALLER OR LARGER GUTTER.
- 9. PROVIDE BREAKS IN GUTTER SCREEN AT ALL GUTTER EXPANSION JOINTS.

50-FT. (MAX. LENGTH) USING GUTTER HANGERS **ANCHOR** THERMAL MOVEMENT ----E.J. THERMAL **ANCHOR** MOVEMENT X + Y = 50-FT. (MAX) HANGING GUTTERS **ALLOWANCES FOR GUTTER EXPANSION** 1/2" 1/2"

SECURELY TO CLEAT AND ANCHOR TO NAILER

5. NEW SPECIFIED FASCIA PLATE. SHOP FABRICATE

TO CONFIGURATION SHOWN ON TYPICAL

DETAILS. ENGAGE SECURELY TO CLEAT AND

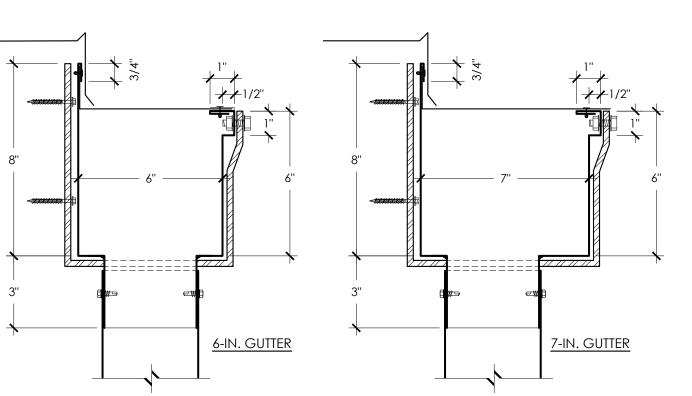
ANCHOR TO FACE OF NAILER WITH SPECIFIED

TYPICAL EDGE FASCIA NAILING AND DIMENSIONS

WITH SPECIFIED FASTENERS 3-IN. O.C.

STAGGERED.

FASTENERS.



GUTTER PROFILES AND ALLOWANCES FOR GUTTER EXPANSION

A-506 NOT TO SCALE

## NOTE: ALL JOINTS, END DAMS, AND GUTTER OUTLETS SHALL BE WELDED SOLID. GUTTER LEAKS SHALL NOT BE ACCEPTABLE

#### **DRAWING NOTES:**

- 1. NEW 1/4-IN. x 1-IN. WIDE GUTTER SUPPORT BRACKET. PROVIDE (3) BRACKETS FOR EVERY 10'-0" SECTION. CHALK LINES AND VERIFY SLOPE PRIOR TO INSTALLING GUTTER. MAKE CORRECTIONS TO SLOPE AS REQUIRED.
- 2. APPLY DABS OF CLEAR SILICONE SEALANT BETWEEN GUTTER AND BRACKET TO PREVENT WIND CHATTER.
- 3. NEW 0.063-IN. SPECIFIED SPACER (GUTTER STRAP). LOCATE SPACERS ALTERNATELY BETWEEN BRACKETS AND SECURE WITH POP RIVETS.
- 4. NEW 0.050-IN. MILL FINISH GUTTER. INSTALL GUTTER TO FLOAT ON SUPPORTS. DO NOT FASTEN GUTTER.

SECTION A-A

**NOTE:** FIELD TEMPLATE AND SHOP FABRICATE ALL TRANSITIONS.

TYPICAL EDGE FASCIA TRANSITIONS

\*\* WELD ALL JOINTS SOLID.

NOT TO SCALE

A-506

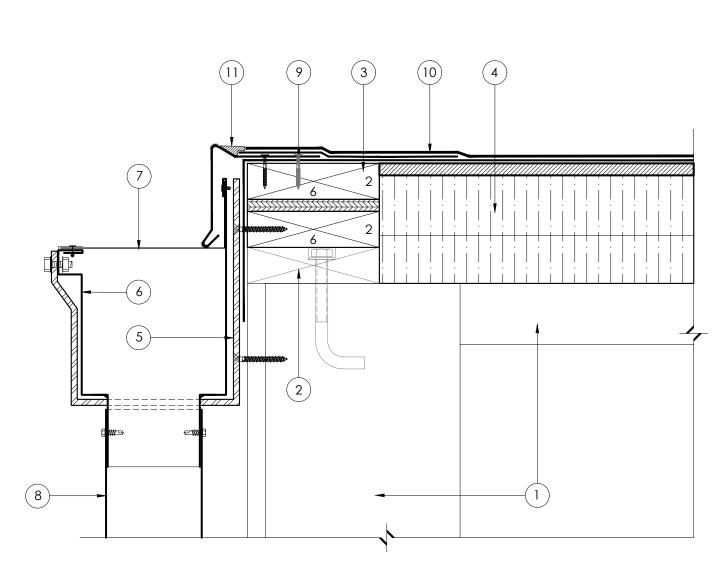
- 5. NEW GUTTER END CAPS, WELDED SOLID.
- 6. NEW JOINT COVER PLATE. SEAL IN PLACE. 7. NEW SPECIFIED EXPANSION JOINT COVER.
- 8. NEW GUTTER END DAM, WELDED SOLID. 9. NEW SPECIFIED GUTTER EDGE FASCIA.
- 10. NEW STAINLESS STEEL GUTTER SCREEN WITH 0.040" ALUMINUM CLOSURE. FASTEN BETWEEN STRAPS.

**GUTTER EXPANSION JOINT** 

NOT TO SCALE

A-506

MINIMUM INSTALLATION VALUES FOR "E"						
	STAINLES	S STEEL	ALUMINUM			
	10 FT.	50 FT.	10 FT.	50 FT.		
В	2"	3-1/4"	2-3/4"	4-1/2"		
С	1/2"	13/16"	11/16"	1-1/8"		
D	1/2"	13/16"	11/16"	1-1/8"		
Е	1/4"	1-1/8"	3/8"	1-11/16'		



AWING	NOTES:	

NOT TO SCALE

A-506

REMAIN. REPAIR AS REQUIRED.

WOOD NAILERS. SECURE TO NAILER 12-IN. O.C.

TYPICAL EDGE METAL FASCIA, EXTERIOR LOCATIONS

WHERE DETERIORATED

HEIGHT OF INSULATION.

(COVER) BOARD.

(MIN.)

A-506

- REMAIN. REPAIR AS REQUIRED.
- 2. EXISTING WOOD BLOCKING. REPLACE WITH NEW
- WHERE DETERIORATED.
- 3. INSTALL NEW 2X6 PT WOOD BLOCKING TO MATCH HEIGHT OF INSULATION AT EDGE.
- 4. NEW SPECIFIED INSULATION AND GYPSUM ROOF
- (COVER) BOARD.

EDGE DETAIL WITH FLOATING GUTTER

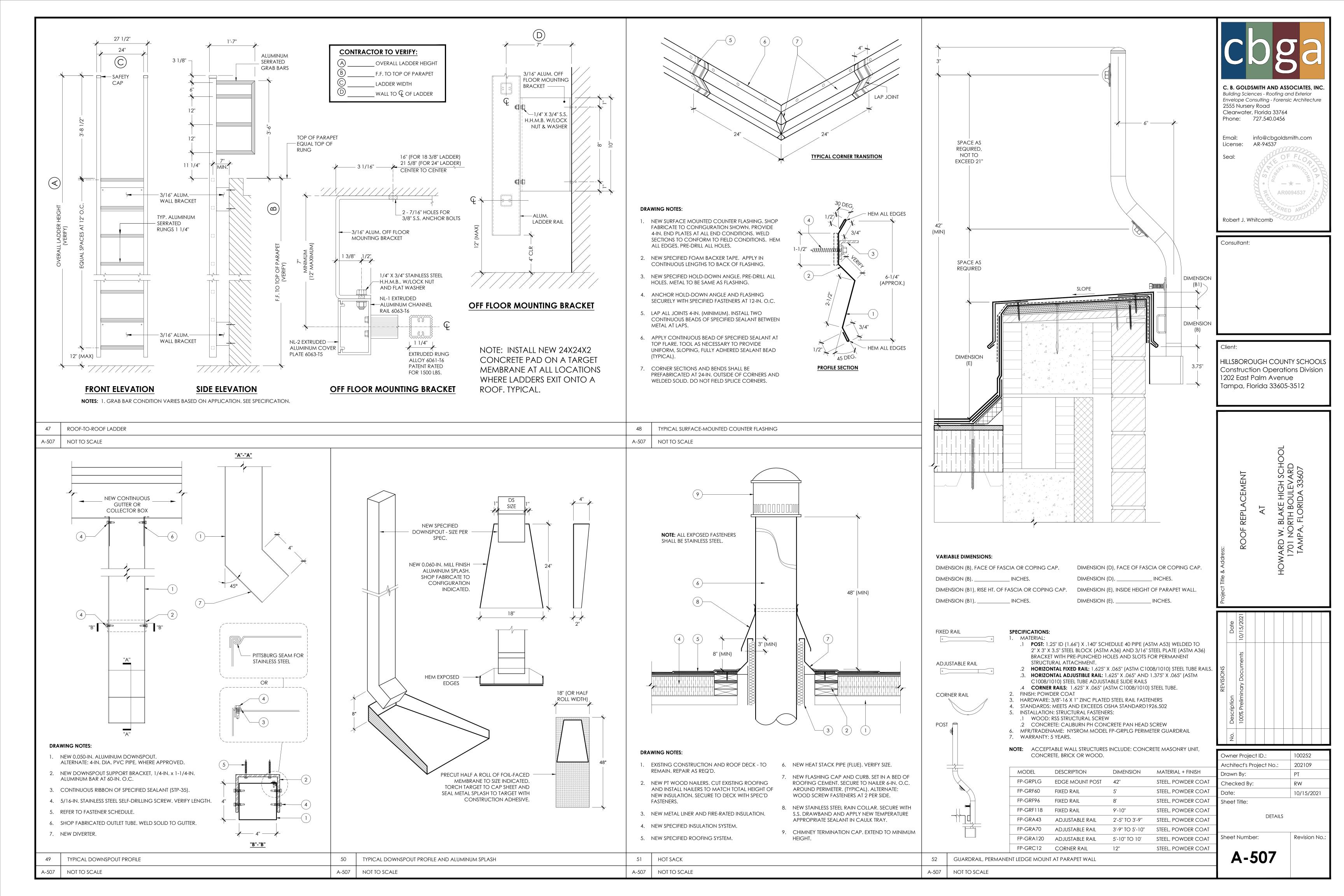
- 5. ALUMINUM GUTTER BRACKETS. SECURE TO SUBSTRATE WITH STAINLESS STEEL CONCRETE
- 1. EXISTING CONSTRUCTION AND ROOF DECK, TO 6. NEW 6-IN. ALUM. BOX GUTTER. REFER TO TYPICAL DETAILS 43 THRU 45/A-506.
  - 7. NEW SPECIFIED GUTTER SCREEN.
  - 8. NEW 4X5-IN. ALUM. DOWNSPOUT. REFER TO
  - TYPICAL DETAILS 49 AND 50/A-507
  - 9. NEW GUTTER EDGE FASCIA WITH 1/2-IN. RAISED EDGE. FASTEN PER TYPICAL DETAIL.
  - 10. NEW SPECIFIED ROOFING SYSTEM.
  - 11. APPLY CONT'S BEAD OF APPROVED SEALANT AT RAISED EDGE OF FASCIA.

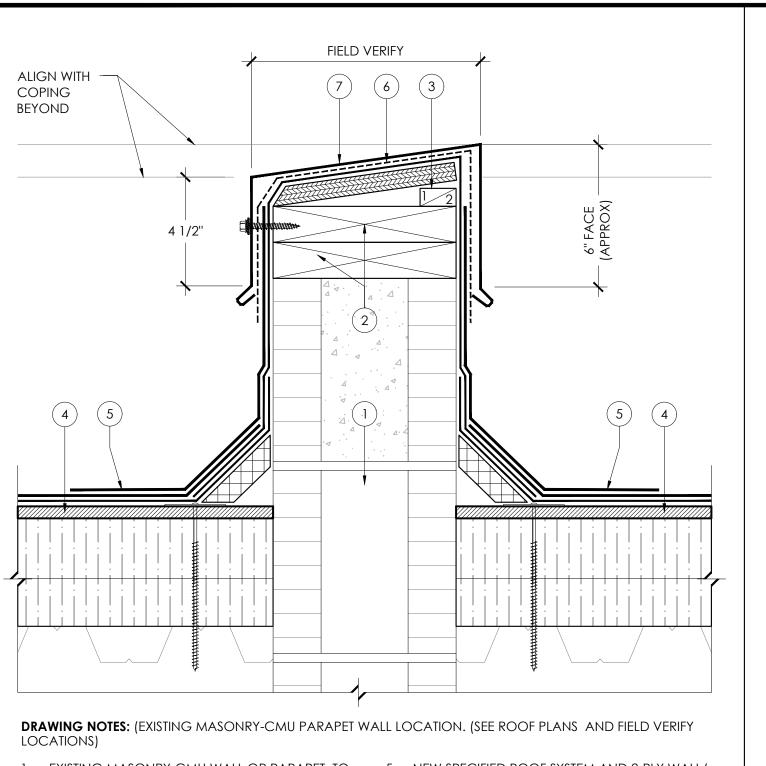
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Architect's Project No.:	202109
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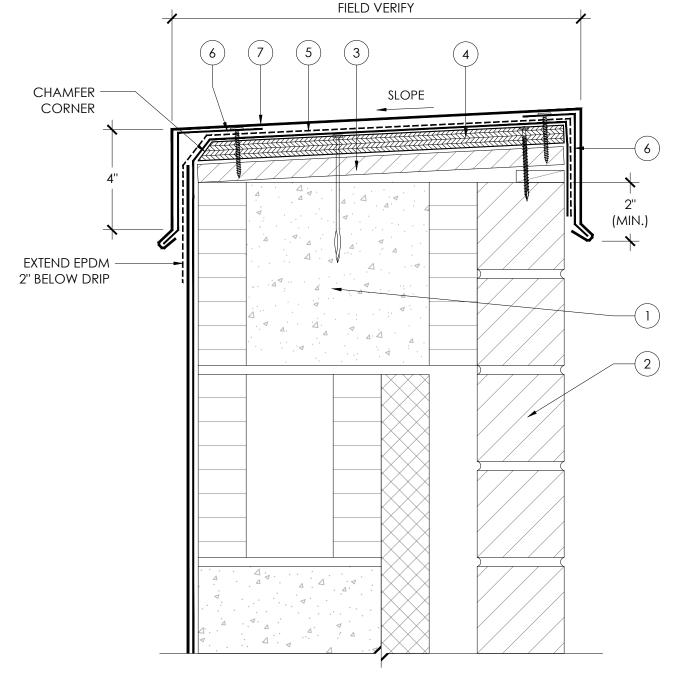




- EXISTING MASONRY-CMU WALL OR PARAPET, TO 5. NEW SPECIFIED ROOF SYSTEM AND 2-PLY WALL/ REMAIN.
- ADD NEW 2X PT WOOD NAILER FULL WIDTH OF WALL FASTEN SECURELY WITH SPECIFIED FASTENERS. FASTENING SHALL BE TO CONCRETE TIE BEAM.
- PROVIDE NEW 3/4-IN. PT PLYWOOD ACROSS NAILERS. CHAMFER EDGE. CREATE SLOPE WITH NEW CONT'S 1X2 PT WOOD SHIM AT EDGE, AS SHOWN.
- NEW SPECIFIED INSULATION AND GYPSUM ROOF (COVER) BOARD.
- BASE FLASHING. CONTINUE SMOOTH INNER PLY
- 6. NEW CONTINUOUS SHEET OF 45 MIL EPDM MEMBRANE. SEAL ALL LAPS WITH SPECIFIED ADHESIVE OR SEAM TAPE. EXTEND 2-IN. BELOW INSIDE FACE OF COPING.

OVER TOP OF PARAPET TO COVER ALL WOOD.

7. NEW SPECIFIED COPING CAP WITH RIDGE TO SLOPE EACH WAY. SHOP FABRICATE ALL TRANSITIONS, CORNERS AND BENDS 24-IN. FROM EDGE. REFER TO DETAILS 13,14,15,16 SIMILAR. WELD ALL JOINTS SOLID. ENGAGE SECURELY TO CLEAT AND FASTEN 12-IN. O.C. ALIGN ALL EDGES AS POSSIBLE WITH ADJACENT ALUMINUM COPINGS.



#### **DRAWING NOTES:**

- 1. EXISTING SINGLE-BRICK MASONRY-CMU WALL OR 5. PARAPET, TO REMAIN.
- 2. EXISTING FACE BRICK, TO REMAIN.
- 3. EXISTING PLYWOOD ON TOP OF PARAPET, TO REMAIN. RE-SECURE AND/OR ADD WOOD SPACER IF PLYWOOD IS BEND. REPLACE WHERE DETERIORATED.
- 4. NEW 3/4-INCH PT PLYWOOD. CHAMFER CORNER OF PLYWOOD AS SHOWN. SECURE TO CONCRETE TIE BEAM WITH SPIKES AT 12" O.C. AND WOOD SCREWS IN FIELD 12" O.C. STAGGERED.
- NEW CONTINUOUS SHEET OF 45 MIL EPDM MEMBRANE. SEAL ALL LAPS WITH SPECIFIED ADHESIVE OR SEAM TAPE. EXTEND 2-IN. BELOW INSIDE FACE OF COPING.
- NEW CONTINUOUS CLEAT. SECURE TO WOOD BLOCKING AT 6-IN. O.C.

- EXTEND SCUPPER RETURNS UP BENEATH

ALUMINUM COPING 3"

7. NEW SPECIFIED COPING CAP. SHOP FABRICATE ALL TRANSITIONS, CORNERS AND BENDS 24-IN. FROM EDGE. WELD ALL JOINTS SOLID. ENGAGE SECURELY TO CLEAT AND FASTEN 12-IN. O.C. REFER TO TYPICAL DETAILS 25 THRU 27/A-504.

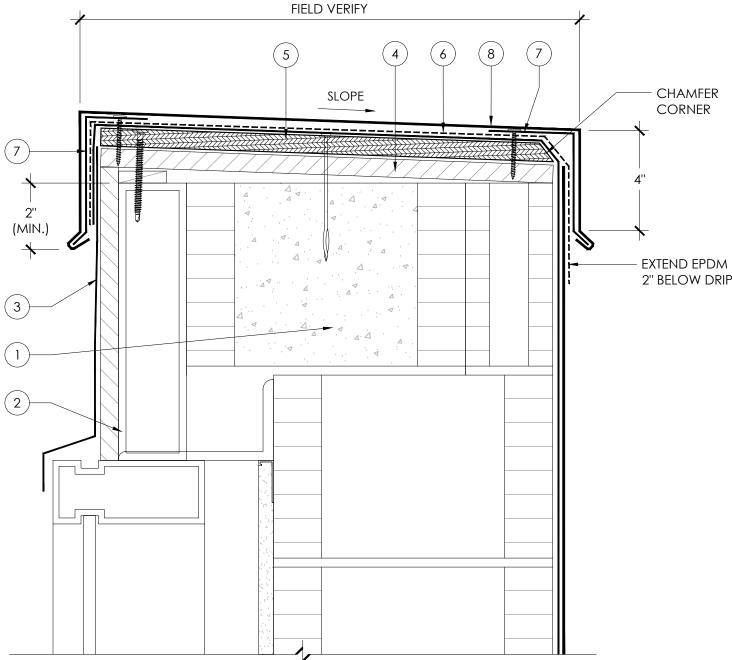
## FIELD VERIFY CHAMFER -SLOPE CORNER (MIN.) EXTEND EPDM 2" BELOW DRIP

#### DRAWING NOTES:

- 1. EXISTING DOUBLE-BRICK MASONRY-CMU WALL OR 5. NEW CONTINUOUS SHEET OF 45 MIL EPDM PARAPET, TO REMAIN.
- 2. EXISTING FACE BRICK, TO REMAIN.
- 3. EXISTING PLYWOOD ON TOP OF PARAPET, TO REMAIN. RE-SECURE AND/OR ADD WOOD SPACER IF PLYWOOD IS BEND. REPLACE WHERE DETERIORATED.
- 4. NEW 3/4-INCH PT PLYWOOD. CHAMFER CORNER OF PLYWOOD AS SHOWN. SECURE TO CONCRETE TIE BEAM WITH SPIKES AT 12" O.C. AND WOOD SCREWS IN FIELD 12" O.C. STAGGERED.

#### MEMBRANE. SEAL ALL LAPS WITH SPECIFIED ADHESIVE OR SEAM TAPE. EXTEND 2-IN. BELOW INSIDE FACE OF COPING.

- NEW CONTINUOUS CLEAT. SECURE TO WOOD BLOCKING AT 6-IN. O.C.
- 7. NEW SPECIFIED COPING CAP. SHOP FABRICATE ALL TRANSITIONS, CORNERS AND BENDS 24-IN. FROM EDGE. WELD ALL JOINTS SOLID. ENGAGE SECURELY TO CLEAT AND FASTEN 12-IN. O.C. REFER TO TYPICAL DETAILS 25 THRU 27/A-504.



#### **DRAWING NOTES:**

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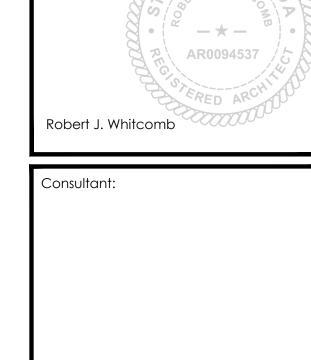
- 1. EXISTING DOUBLE-BRICK MASONRY-CMU WALL OR 6. PARAPET, TO REMAIN.
- EXISTING METAL STUDS AND PLYWOOD SHEATHING FACE, TO REMAIN.
- 3. EXISTING METAL FLASHING ON TOP OF GLAZING, TO REMAIN. REPLACE WHERE DETERIORATED.
- 4. EXISTING PLYWOOD ON TOP OF PARAPET, TO REMAIN. RE-SECURE AND/OR ADD WOOD SPACER IF PLYWOOD IS BEND. REPLACE WHERE DETERIORATED.
- 5. NEW 3/4-INCH PT PLYWOOD. CHAMFER CORNER OF PLYWOOD AS SHOWN. SECURE TO CONCRETE TIE BEAM WITH SPIKES AT 12" O.C. AND WOOD SCREWS IN FIELD 12" O.C. STAGGERED.

CMU-MASONRY AND GLAZING PARAPET COPING DETAIL AT STAIR TOWER

- NEW CONTINUOUS SHEET OF 45 MIL EPDM MEMBRANE. SEAL ALL LAPS WITH SPECIFIED ADHESIVE OR SEAM TAPE. EXTEND 2-IN. BELOW
- NEW CONTINUOUS CLEAT. SECURE TO WOOD BLOCKING AT 6-IN. O.C.

INSIDE FACE OF COPING.

NEW SPECIFIED COPING CAP. SHOP FABRICATE ALL TRANSITIONS, CORNERS AND BENDS 24-IN. FROM EDGE. WELD ALL JOINTS SOLID. ENGAGE SECURELY TO CLEAT AND FASTEN 12-IN. O.C. REFER TO TYPICAL DETAILS 25 THRU 27/A-504.



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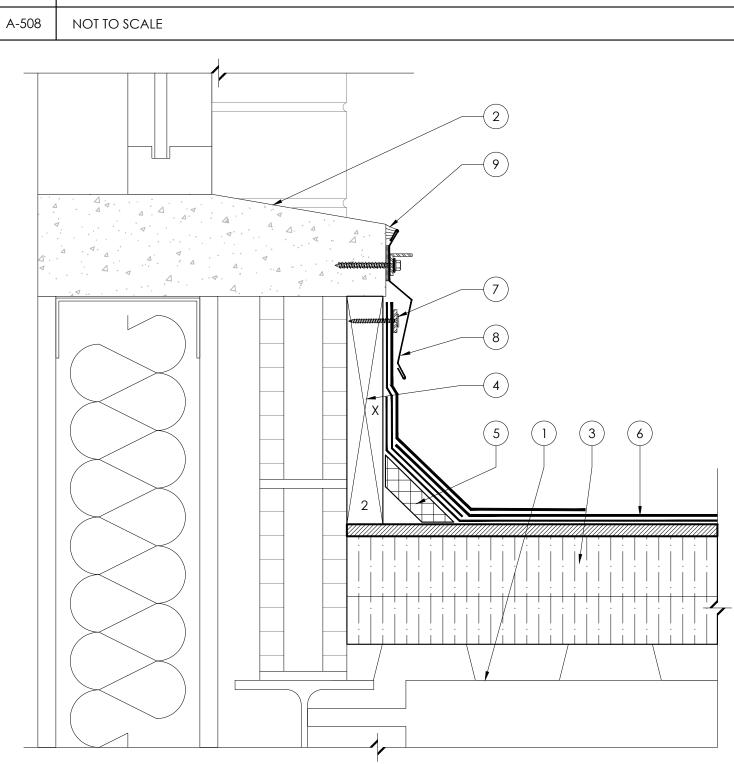
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PARAPET, COPING, AND FLASHING DETAIL-MASONRY WALL BETWEEN ROOF AREAS 4E/4F

#### **DRAWING NOTES:**

- EXISTING ROOF DECK TO REMAIN, REPAIR AS REQUIRED.
- EXISTING CONCRETE SILL. VERIFY HEIGHT.
- 3. NEW SPECIFIED INSULATION AND GYPSUM COVER BOARD.

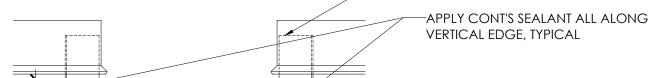
COUNTER FLASHING DETAIL AT CONCRETE SILL

- 4. NEW PT WOOD NAILER. VERIFY HEIGHT AND CUT TO MATCH. SECURE TO WALL AT 8" O.C. STAGGERED.
- NEW PRE-MOLDED CANT STRIP SET IN ROOF
- 6. NEW SPECIFIED ROOFING AND BASE FLASHING.

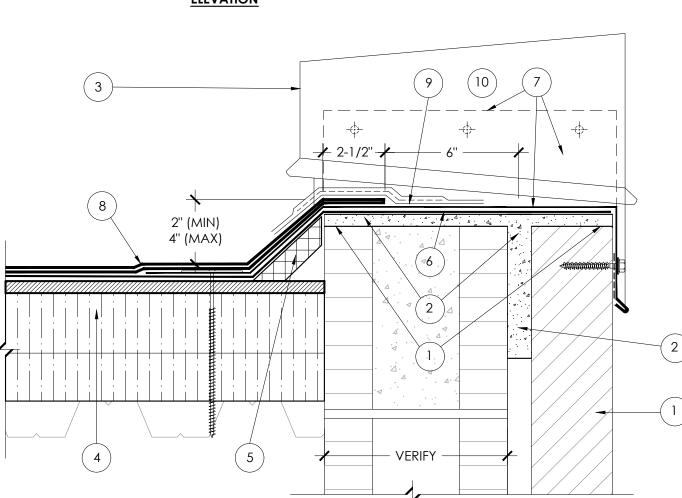
NOT TO SCALE

A-508 | NOT TO SCALE

CMU-MASONRY AND BRICK VENEER PARAPET COPING DETAIL



PROVIDE SCUPPER WITH 4" RETURNS AND HEMMED SEALANT TRAYS AND DRIP EDGE AT EXTERIOR FACE OF WALL



#### **DRAWING NOTES:**

1. SAW-CUT 2-IN. FROM TOP OF EXISTING CMU/CONC. AND BRICK.

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- 2. APPLY 1/2-IN. THICK BASF N425 REPAIR MORTAR TO 7. NEW CUSTOM FABRICATED 0.062-IN. ALUM. 8. NEW SURFACE-MOUNTED COUNTER FLASHING. TOP OF CUT PER ICRI 320.1R, AND IN STRICT SECURE AT 12" O.C. REFER TO DETAIL 48/A507. ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. EXTEND MORTAR INTO CAVITY
  - REFER DETAIL 35/A505 FOR PARAPET FLASHING AND COPING BEYOND.
  - 4. NEW SPECIFIED INSULATION SYSTEM AND GYPSUM ROOF (COVER) BOARD.

OVERFLOW - SECONDARY DRAIN SCUPPER (OPTION 1)

9. NEW SPECIFIED LIQUID FLASHING.

SYSTEM.

- A-508 NOT TO SCALE

CMU-MASONRY AND BRICK VENEER PARAPET COPING DETAIL

(1)— – 4" (MIN) -

#### **DRAWING NOTES:**

A-508

- VERIFY EXISTING CONDITIONS AND HEIGHT OF NEW 7. SOLDER SOLID SCUPPER TUBE TO NEW ROOFING. CUT EXISTING PARAPET AS REQUIRED TO PROVIDE NEW 6"x15" SCUPPER OPENING AT THE PROPER HEIGHT.
- NEW INSULATION AND GYPSUM COVER BOARD.
- 3. NEW CANT STRIP, SET IN ROOF CEMENT.
- 4. NEW 24 GA STAINLESS STEEL OVERFLOW SCUPPER (OUTLET TUBE). FIELD OR SHOP FABRICATE.
- 5. NEW 22 GA, STAINLESS STEEL ESCUTCHEON PLATE. FABRICATE TO MATCH PERIMETER OF SCUPPER TUBE. EXTEND ESCUTCHEON UNDER COPING METAL WHERE GAP IN BETWEEN IS 6" OR LESS.
- ESCUTCHEON PLATE.
- 8. APPLY CONT'S BEAD OF SPECIFIED SEALANT AROUND ESCUTCHEON. TOOL AS NECESSARY TO PROVIDE UNIFORM, SLOPING, FULLY ADHERED SEALANT BEAD (TYPICAL). LEAVE BOTTOM OPEN.
- 9. STRIP-IN EDGE OF MEMBRANE WITH SPECIFIED LIQUID FLASHING MEMBRANE INTO SCUPPER.
- 10. NEW SPECIFIED ROOFING AND 2-PLY BASE FLASHING SYSTEM.
- 11. EXISTING BRICK VENEER.

10 11)—

#### **DRAWING NOTES:**

- 1. EXISTING METAL DECK AND JOISTS, TO REMAIN.
- 2. EXISTING MASONRY CMU WALL AND FACE BRICK TO REMAIN.
- WITH NEW WERE MISSING OR DETERIORATED. 4. INSTALL NEW 2X PT WOOD BLOCKING TO MATCH

6. NEW SPECIFIED INSULATION SYSTEM AND GYPSUM

- HEIGHT OF INSULATION.
- NEW PT WOOD CURB EXTENSION.

COVER BOARD.

WALL/BASE FLASHING.

7. NEW SPECIFIED ROOF SYSTEM AND 2-PLY

- 8. NEW BATT INSULATION IN FELT FOLD.
- 3. EXISTING WOOD BLOCKING, TO REMAIN. REPLACE 9. CUT EXISTING METAL FLASHING AS NEEDED AND FOLD BACK TO COUNTER MEMBRANE.
  - 10. NEW SURFACE-MOUNTED REGLET COUNTER FLASHING. FABRICATE TO CONFIGURATION SHOWN. ANCHOR SECURELY TO THRU-WALL FLASHING AT 12-IN. O.C. AND APPLY CONTINUOUS BEAD OF SEALANT.
  - 11. NEW 24 GA S.S. WIND CLIP AT 24" O.C.

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#### 7. NEW ALUMINUM TERMINATION BAR AND FASTENERS. PROVIDE 1" MINIMUM EMBEDMENT.

SEALANT BEAD (TYPICAL).

- 9. APPLY CONTINUOUS BEAD OF SPECIFIED SEALANT AT TOP OF FLASHING. TOOL AS NECESSARY TO PROVIDE UNIFORM, SLOPING, FULLY ADHERED
- 5. NEW PRE-MOLDED CANT STRIP SET IN ROOF
- 10. PROVIDE WELDED END CAPS AT SIDES OF ALUMINUM COPING. FIELD VERIFY DIMENSIONS.

8. NEW SPECIFIED ROOFING AND BASE FLASHING

6. CONTINUE SMOOTH-PLY OVER MASONRY

SCUPPER ASSEMBLY. FIELD VERIFY DIMENSIONS,

UP SIDES UNDER COPING, WITH 4" RETURNS WITH

WALL. WELD SOLID INTO ONE PIECE. SECURE TO

SIDE WALL FLASHING WITH SPECIFIED FASTENERS (3

HEMMED SEALANT TRAY AT EXTERIOR FACE OF

AND FABRICATE TO FIT INTO OPENING EXTENDING

OPENING BOTTOM AND SIDES.

6. FOLD METAL TO FORM HEMS AROUND PERIMETER OF ESCUTCHEON PLATE.

NOT TO SCALE

THRU-WALL OVERFLOW SCUPPER (OPTION 2)

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ROOF TO WALL TERMINATION DETAIL AT ROOF AREA 5E

