PROJECT # 516-15-106
BAY PINES VA HEALTH CARE SYSTEM
REPLACE ROOF BUILDING 100

10000 BAY PINES BLVD.
BAY PINES, FLORIDA 33744

100% SUBMITTAL

July 26, 2016

CLIENT
BAY PINES VA HEALTH CARE SYSTEM
10000 BAY PINES BLVD.
BAY PINES, FLORIDA 33744

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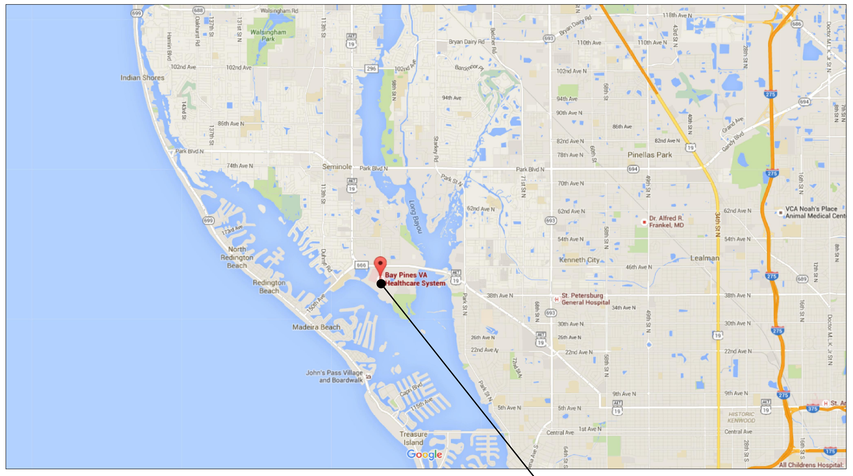
Drawing Title	COVER SHEET
SCALE: NTS	
Approved: Division Chief	
Approved: Service Director	
Project Title	BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100
Building Number	100
Checked	
Drawn	
Location	VAMC Bay Pines Bay Pines FL 33744
Date	07.26.16
Project No.	516-15-106
DRAWING NO.	G001
Dwg. 1 Of 39	

BAY PINES MEDICAL CENTER
Department of Veterans Affairs

Revisions | Date



SITE MAP

SITE

ARCHITECTURAL ABBREVIATIONS

ADJ.	ADJACENT	' OR FT	FEET (FOOT)		
ADMIN.	ADMINISTRATION	FIG.	FIGURE		
A.F.F.	ABOVE FINISH FLOOR	FIN.	FINISHED	(P)	PROPOSED
A.F.S.	ABOVE FINISHED SLAB	FIN. FL	FINISHED FLOOR	PTD	PAINTED
ALT.	ALTERNATE	FS	FINISHED SLAB	PR	PAIR
ALUM.	ALUMINUM	FEC	FIRE EXTINGUISHER CABINET	PKG	PARKING
ANOD.	ANODIZED	F.R.T.	FIRE RETARDANT	PED	PEDESTAL
APT.	APPARTMENT	FL.	FLOOR	PERIM	PERIMETER
APPD.	APPROVED	FD.	FLOOR DRAIN	PLYWD	PLYWOOD
APPROX.	APPROXIMATE (LY)	FLOU.	FLUORESCENT	PSF	POUNDS PER SQUARE FOOT
ARCH.	ARCHITECT			PSI	POUNDS PER SQUARE INCH
ASAP	AS SOON AS POSSIBLE	GA.	GAUGE	PREFAB	PREFABRICATED
ASPH	ASPHALT	GALV	GALVANIZED	PT	PRESSURE TREATED
ASSOC.	ASSOCATION	GC	GENERAL CONTRACTOR	PROP	PROPERTY
@	AT	GL	GLASS	PROV	PROVIDED
ATT.	ATTENTION	GOVT	GOVERNMENT	PR	PAIR
AUX.	AUXILIARY	GPR	GROUND PENETRATING RADAR	P.I.P	POURED IN PLACE
AVG.	AVERAGE	GR	GRADE		
		GYP. BD.	GYPSUM WALL BOARD	R	RADIUS
BAL	BALANCE	GWB	GYPSUM WALL BOARD	RECD	RECEIVED
BFC	BROOM FINISHED CONCRETE			REF	REFERENCE
BR	BEDROOM	HDW	HARDWARE	REF OR REFRIG	REFRIGERATOR
BRG	BEARING	HDWD	HARDWOOD		
BTW	BETWEEN	HD	HEAD	REINF	REINFORCING
BLK	BLOCK	HDR	HEADER	REQ'D	REQUIRED
BLK'G	BLOCKING	HVAC	HEATING, VENTILATING, & A/C	REV	REVERSE
BD	BOARD	HT OR HGT	HEIGHT	RH	RIGHT HAND
B.O.	BOTTOM OF	HP	HIGH POINT	RHR	RIGHT HAND REVERSE
BOTT.	BOTTOM	HC	HOLLOW CORE	RD	ROOF DRAIN
BLDG.	BUILDING	HM	HOLLOW METAL	RM	ROOM
X	BY	HORIZ	HORIZONTAL	RO	ROUGH OPENING
		HB	HOSE BIBB		
C	CARPET	HW	HOT WATER	SCHED	SCHEDULE
CAB.	CABINET			SECT	SECTION
CAP.	CAPACITY	" OR IN	INCH	SEP	SEPARATE
CLG.	CEILING	INCL	INCLUDED, INCLUDING,	SVR	SERVER
CTR.	CENTER	INC	INCORPORATED	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC.
CL	CENTER LINE	INFO	INFORMATION		
CT	CERAMIC TILE	ID	INSIDE DIAMETER	SIM	SIMILAR
CM	CENTER MARK	INSUL.	INSULATION	SH	SINGLE HUNG
CLR	CLEAR	INT	INTERIOR	SC	SOLID CORE
CL	CLOSET			SPEC	SPECIFICATIONS
COL	COLUMN	JAN	JANITOR	SQ	SQUARE
CONC.	CONCRETE	JT	JOINT	SF	SQUARE FOOT
CMU	CONCRETE MASONRY UNIT			SQ IN	SQUARE INCH
CONT.	CONTINUOUS	LAM	LAMINATED, LAMINATE	SS	STAINLESS STEEL
COMM	COMMUNICATION	LAV	LAVATORY	STD	STANDARD
CONT	CONTINUOUS	LH	LEFT HAND	STL	STEEL
CJ	CONTROL JOINT	LHR	LEFT HAND REVERSE	STG	STORAGE
CTR FL	COUNTER FLASHING	LG	LENGTH, LONG	STRUCT	STRUCTURAL
		LT	LIGHT	SUB	SUBCONTRACTOR
DBL	DOUBLE	LT WT CONC	LIGHT WEIGHT CONCRETE	SUPP	SUPPLEMENTARY
DEG	DEGREE(S)	LIN FT OR LF	LINEAR FEET	SUSP	SUSPENDED
DEPT	DEPARTMENT			SYM	SYMMETRICAL
DTL	DETAIL	LR	LIVING ROOM	SYN	SYNTHETIC
DIA.	DIAMETER	LVR	LOUVER		
DIFF	DIFFERENT	LP	LOW POINT	THRESH	THRESHOLD
DIM.	DIMENSION			THRU	THROUGH
DR	DINING ROOM	MAINT	MAINTENANCE	TB	TIE BEAM
DIR.	DIRECTOR	MFG.	MANUFACTURER	TBD	TO BE DETERMINED
D.S.	DOWNSPOUT	MO	MASONRY OPENING	T&G	TONGUE AND GROOVE
		MATL	MATERIAL	T&B	TOP AND BOTTOM
(E)	EXISTING	MAX.	MAXIMUM	TO	TOP OF
EA.	EACH	MECH	MECHANICAL	TYP	TYPICAL
ED.	EDITION	MED	MEDIUM		
EQ.	EQUAL	MDF	MEDIUM DENSITY FIBER BOARD	UC	UNDERCUT
ELEC.	ELECTRICAL	MTG	MEETING	UL	UNDERWRITERS LABORATORY *
EWC	ELECTRIC WATER COOLER	MEMB	MEMBRANE	UNFIN	UNFINISHED
ELEV	ELEVATOR	MTL	METAL	U.N.O	UNLESS NOTED OTHERWISE
EQ	EQUAL	MEZZ	MEZZANINE		
EQUIP	EQUIPMENT	MID	MIDDLE	VAR	VARIABLE
EXIST.	EXISTING	MIN.	MINIMUM	VTR	VENT THROUGH ROOF
ETR	EXISTING TO REMAIN	MIR	MIRRORED	VENT	VENTILATE (TION)
EXP	EXPANSION			V.I.F.	VERIFY IN FIELD
EJ	EXPANSION JOINT	N.I.C.	NOT IN CONTRACT	VERT	VERTICAL
EXT	EXTERIOR	NO.	NUMBER	VCT	VINYL COMPOSITION TILE
		NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION	WC	WATER COOLER
				WH	WATER HEATER
		N.T.S	NOT TO SCALE	WP	WATERPROOF
				WWF	WELDED WIRE FABRIC
		O.C.	ON CENTER	WWM	WELDED WIRE MESH
		OCC.	OCCUPANTS	WD	WOOD
		O.D.	OUTSIDE DIMENSION		

* "UL" IS A REGISTERED TRADEMARK OF UNDERWRITERS LABORATORIES INC.

ARCHITECTURAL SYMBOLS

N — PLAN NORTH

0'-0" A.F.F. — ELEVATION TAG

3 A-201 — ELEVATION TAG OR DETAIL NUMBER; SHEET NUMBER

0 A000 — DETAIL NUMBER; SHEET NUMBER

XX XX — SECTION NUMBER; SHEET NUMBER

P1 — PARTITION TYPE

A — WINDOW SYMBOL

101 — DOOR MARK

1 — REVISION TAG

BREAK LINE

A1 — KEYED NOTE

FLOOR FINISH TRANSITIONS

BATT INSULATION

RIGID BOARD INSULATION

DIMENSION LUMBER

WOOD BLOCKING

PROJECT DESCRIPTION

PROJECT IS LEVEL 2, REROOFING OF APPROXIMATELY 234,510 SQUARE FEET IN BUILDING 100, THE INSTALLATION OF NEW GUARDRAILS ALONG THE PERIMETER OF THE BUILDING AND THE INSTALLATION OF A NEW LIGHTNING PROTECTION SYSTEM.

APPLICABLE CODES

BUILDING CODE:	FLORIDA EXISTING BUILDING CODE (FBC), FIFTH EDITION (2014)
MECHANICAL CODE:	FBC, MECHANICAL, FIFTH EDITION (2014)
ELECTRICAL CODE:	NATIONAL ELECTRIC CODE (NFPA 70), 2011 EDITION
PLUMBING CODE:	FBC, PLUMBING, FIFTH EDITION (2014)
GAS FUEL CODE:	FBC, GAS FUEL, FIFTH EDITION (2014)
LIFE SAFETY CODE:	2012 LIFE SAFETY CODE, NFPA 101
OTHER:	FLORIDA ACCESSIBILITY CODE, FIFTH EDITION (2014) FLORIDA FIRE PREVENTION CODE, FIFTH EDITION

DRAWING LIST

GENERAL

G001 COVER SHEET
G002 GENERAL INFO. & SHEET INDEX
G003 PRODUCT APPROVAL

ARCHITECTURAL

A100 SITE PLAN
A101A DEMOLITION ROOF PLAN QUADRANT 'A'
A101B DEMOLITION ROOF PLAN QUADRANT 'B'
A101C DEMOLITION ROOF PLAN QUADRANT 'C'
A102A RENOVATION ROOF PLAN QUADRANT 'A'
A102B RENOVATION ROOF PLAN QUADRANT 'B'
A102C RENOVATION ROOF PLAN QUADRANT 'C'
A102D RENOVATION ROOF PLAN QUADRANT 'D'
A201 GUARD RAIL DETAILS AND DOOR SCHEDULE
A202 EXTERIOR ELEVATIONS
A203 EXTERIOR ELEVATIONS
A204 EXTERIOR ELEVATIONS
A205 EXTERIOR ELEVATIONS
A206 EXTERIOR ELEVATIONS
A207 EXTERIOR ELEVATIONS
A208 EXTERIOR ELEVATIONS
A301 ROOF DETAILS
A302 ROOF DETAILS
A303 ROOF DETAILS
A304 ROOF DETAILS
A305 ROOF DETAILS
A306 ROOF DETAILS

STRUCTURAL

S001 WIND CALCULATIONS CHART

PLUMBING

P102A ROOF PIPING PLAN - QUADRANT 'A'
P102B ROOF PIPING PLAN - QUADRANT 'B'
P102C ROOF PIPING PLAN - QUADRANT 'C'

ELECTRICAL

E001 ELECTRICAL LEGEND AND GENERAL NOTES
E101A ELECTRICAL LIGHTNING PROTECTION DEMOLITION ROOF QUADRANT 'A'
E101B ELECTRICAL LIGHTNING PROTECTION DEMOLITION ROOF QUADRANT 'B'
E101C ELECTRICAL LIGHTNING PROTECTION DEMOLITION ROOF QUADRANT 'C'
E101D ELECTRICAL LIGHTNING PROTECTION DEMOLITION ROOF QUADRANT 'D'
E102A ELECTRICAL LIGHTNING PROTECTION RENOVATION ROOF QUADRANT 'A'
E102B ELECTRICAL LIGHTNING PROTECTION RENOVATION ROOF QUADRANT 'B'
E102C ELECTRICAL LIGHTNING PROTECTION RENOVATION ROOF QUADRANT 'C'
E102D ELECTRICAL LIGHTNING PROTECTION RENOVATION ROOF QUADRANT 'D'
E501 ELECTRICAL LIGHTNING PROTECTION DETAILS

GAF TAPERED INSULATION PLANS (FOR INFORMATION ONLY)

QUADRANT 'A'
QUADRANT 'B'
QUADRANT 'C'

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Drawing Title: CODE INFORMATION, GENERAL NOTES AND DRAWING LIST SCALE: NTS	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16 Project No. 516-15-106
Approved: Division Chief	Building Number: 100	Checked	Drawn
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO. G002 Dwg. 2 Of 39

BAY PINES MEDICAL CENTER

Department of Veterans Affairs

Revisions	Date

three inches = one foot

One and one-half inches = one foot

one inch = one foot

three-quarters inch = one foot

one-half inch = one foot

three-eighth inch = one foot

one-quarter inch = one foot

one-eighth inch = one foot

PRODUCT APPROVAL (BASIS OF DESIGN)

CATEGORY	SUBCATEGORY	MANUFACTURER	DOCUMENTATION TYPE				EXP. DATE
			'A'	'B'		'C'	
			LAB NAME TEST NO.	STATE OF FLORIDA NO.	MIAMI-DADE APPROVAL NO.	P.E. OR R.A. NAME	
ROOFING	MODIFIED BITUMEN ROOF SYSTEMS	GAF CORPORATION			15-1001.04		11/06/2018

PRODUCT APPROVAL GENERAL NOTES:

1. INCLUSION OF "APPROVED PRODUCTS" OR ASSOCIATED INFORMATION AND DOCUMENTATION ON THE PRODUCT APPROVAL DATA SCHEDULE, INSTALLATION DETAIL SHEETS OR BY REFERENCE IN THE CONSTRUCTION DOCUMENTS DOES NOT IMPLY THAT VRG SERVICES, LLC OR ITS SUBCONSULTANTS HAVE EITHER PRODUCED, NOR TESTED OR CREATED THE INFORMATION CONTAINED HEREIN. CONSEQUENTLY, VRG SERVICES, LLC AND ITS SUBCONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY INFORMATION GIVEN, RELATIVE TO "APPROVED PRODUCTS." THESE SHEETS ARE SUBMITTED FOR INFORMATION ONLY.
2. RESPONSIBILITY FOR ANY PRODUCT'S PERFORMANCE RELATIVE TO STRUCTURAL INTEGRITY DURING HURRICANES AND/OR NAMED STORMS BASED ON EVALUATIONS OF CODE COMPLIANCE CONDUCTED BY STATE APPROVED ENTITIES LIES SOLELY WITH THE MANUFACTURERS OF THE LISTED PRODUCTS.
3. INCLUSION OF A PRODUCT IN THIS SCHEDULE DOES NOT IMPLY OR PRESUME THAT THE PRODUCT LISTED WILL BE INSTALLED IN THIS PROJECT. ALTERNATE PRODUCTS COMPLYING WITH CODE REQUIREMENTS MAY BE UTILIZED UPON EVALUATION, ACCEPTANCE, AND APPROVAL BY THE BUILDING DEPARTMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT INFORMATION AND DOCUMENTATION THAT MAY BE REQUIRED BY THE BUILDING DEPARTMENT FOR THE ALTERNATE PRODUCT'S EVALUATION AND APPROVAL.
4. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT WRITTEN INFORMATION AND DOCUMENTATION, INCLUDING ALL APPROVED AGENCIES NUMBERS THAT MAY BE REQUIRED BY THE BUILDING DEPARTMENT FOR THE PRODUCT'S EVALUATION AND APPROVAL. CONTRACTOR AND MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE ALTERNATE PRODUCTS MEET THE FLORIDA PRODUCT APPROVAL REQUIREMENTS.
5. REFER TO STRUCTURAL DRAWINGS FOR APPLICABLE WIND SPEED CLASSIFICATION OF PROJECT.
6. DOCUMENTATION DEMONSTRATING A PRODUCT'S COMPLIANCE WITH THE CODE, AS EVALUATED THROUGH CODE ADOPTED METHODS, HAS BEEN PROVIDED IN THE ABOVE SCHEDULE UNDER THE FOLLOWING KEY LISTING:

KEY	DOCUMENTATION
'A'	A TEST REPORT FROM AN APPROVED LABORATORY
'B'	A LISTING OR LABEL FORM AN APPROVED CERTIFICATION AGENCY
'C'	AN EVALUATION REPORT FROM AN APPROVED EVALUATION ENTITY OR FLORIDA LICENSED PROFESSIONAL ENGINEER (P.E.) OR REGISTERED ARCHITECT (R.A.).

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Drawing Title: PRODUCT APPROVAL
SCALE: NTS

Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100

Date: 07.26.16

Project No.: 516-15-106

Approved: Division Chief

Approved: Service Director

Building Number: 100

Checked

Drawn

Location: VAMC Bay Pines, Bay Pines FL 33744

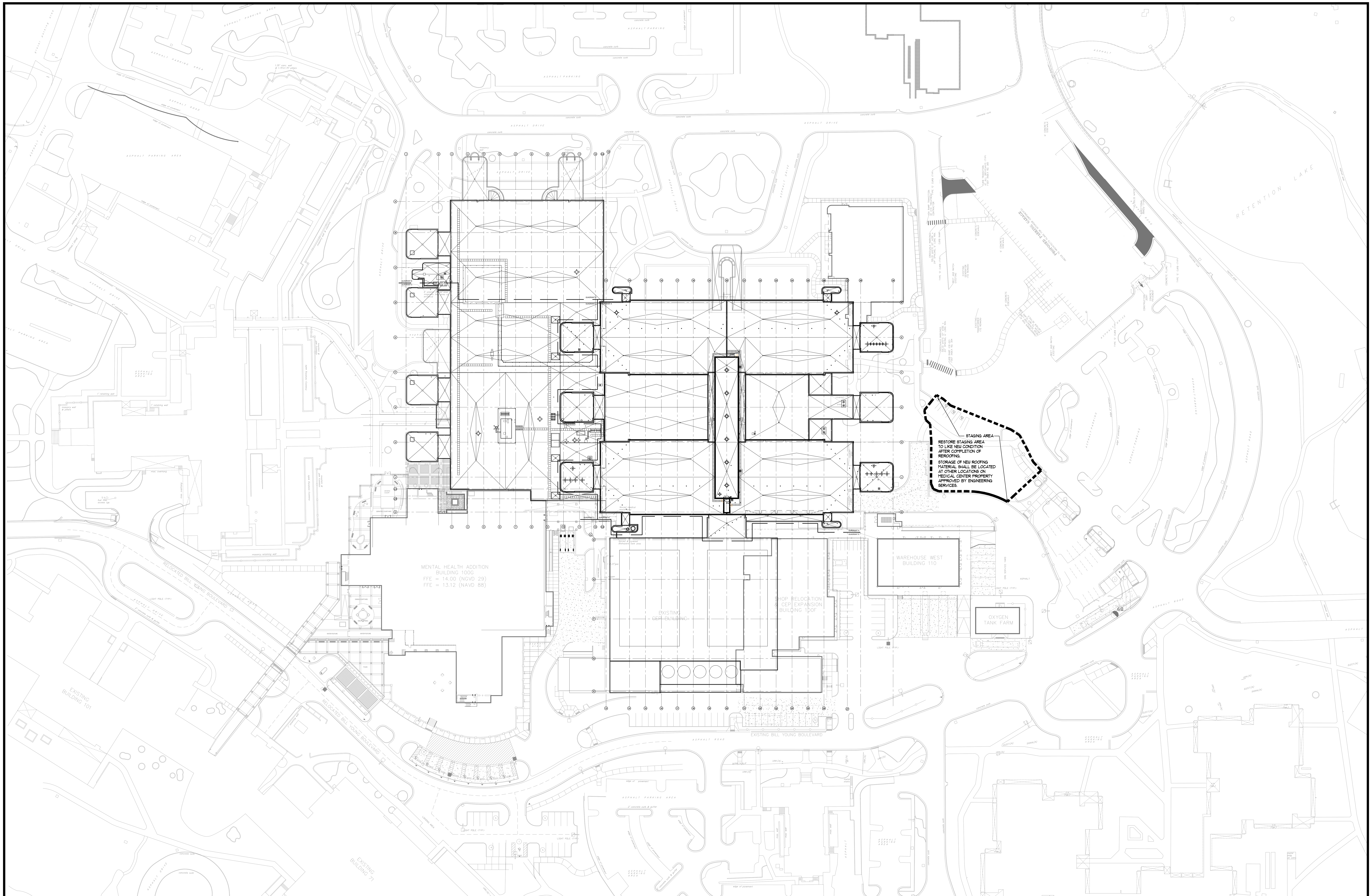
DRAWING NO. G003

Dwg. 3 Of 39

BAY PINES MEDICAL CENTER

Department of Veterans Affairs

Revisions	Date



ARCHITECTURAL SITE PLAN

SCALE : 1":50'

N

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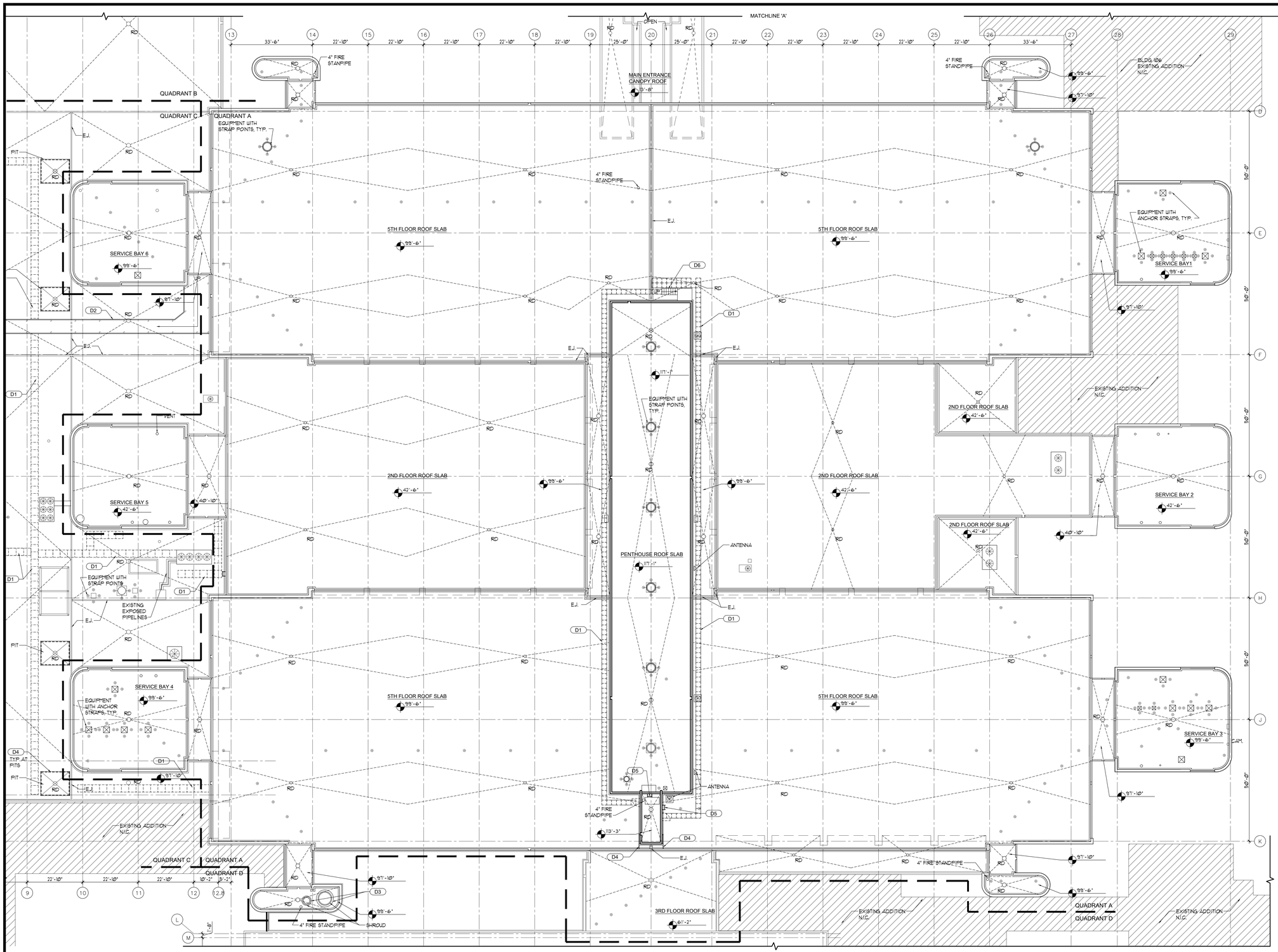
Drawing Title: ARCHITECTURAL SITE PLAN SCALE: 1"=50'	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16 Project No. 516-15-106
Approved: Division Chief	Building Number: 100	Checked / Drawn	DRAWING NO. A100
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		Dwg. 4 Of 39

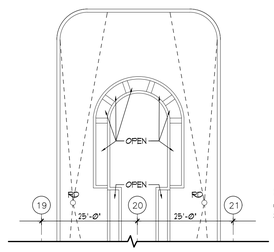
BAY PINES MEDICAL CENTER
Department of Veterans Affairs

Revisions | Date



ROOF DEMOLITION PLAN -QUADRANT 'A'

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



CONT. OF MAIN ENTRY CANOPY

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

GENERAL DEMOLITION NOTES

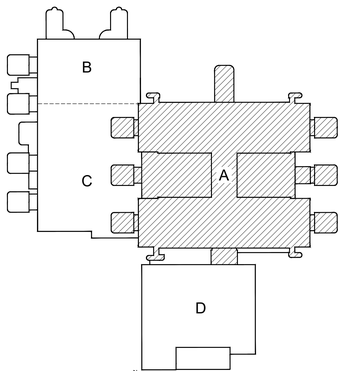
1. THIS PLAN SHOWS GENERAL ARCHITECTURAL DEMOLITION WORK TO BE PERFORMED, IT DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK REQUIRED TO PRODUCE THE BUILDING MODIFICATIONS SHOWN ON THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL DISPOSE OF DEMOLITION MATERIALS PROPERLY, OFF SITE, IN AN EXPEDITIOUS MANNER. WORK AREA(S) SHALL BE CLEANED AT THE END OF EACH DAY.
3. THE CONTRACTOR SHALL REMOVE ALL ITEMS AS OUTLINED IN THE DRAWINGS. ALL ITEMS LISTED FOR DEMOLITION ARE TO BE REMOVED. NO ITEMS WILL BE ABANDONED, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL PROVIDE MEANS OF PREVENTING DUST, FUMES AND DEBRIS FROM DEMOLITION AND CONSTRUCTION ACTIVITIES PENETRATING INTERIOR OF BUILDING.
5. REMOVE THE COMPLETE ROOFING SYSTEM, INCLUDING ROOFING FLASHING DOWN TO THE ROOF DECK.
6. REMOVE ALL ABANDONED ROOF TOP EQUIPMENT, EQUIPMENT CURBS AND EQUIPMENT STANDS. VERIFY WITH CONTRACTING OFFICERS REPRESENTATIVE (COR) PRIOR TO REMOVAL.
7. ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN USE DURING REROOF.
8. REPLACE ALL STEEL WIRE ROPE EQUIPMENT TIE DOWNS WITH NEW STAINLESS STEEL WIRE ROPE EQUIPMENT TIE DOWNS.
9. REPLACE ALL EXISTING EQUIPMENT STRAPS WITH NEW STAINLESS STEEL STRAPS.
10. ALL EXISTING ANTENNAS, ANCHOR STRAPS, ETC. TO REMAIN, REMOVE AND REINSTALL WHERE REQUIRED FOR REROOFING. PROVIDE NEW FLASHING/WEATHER PROOFING AS INDICATED IN THE DRAWINGS AND AS REQUIRED FOR A COMPLETE AND TOTAL INSTALLATION.
11. PROTECT ITEMS TO REMAIN AND ITEMS TO BE REINSTALLED FROM DAMAGE. IF DAMAGED DURING CONSTRUCTION ACTIVITIES, ITEMS SHALL BE REPLACED WITH NEW AT NO ADDITIONAL COST.
12. EXISTING ROOF SLAB ELEVATION SHOWN IS BASED OFF OF FIRST FLOOR SLAB = 0'-0".
13. ALL DIMENSIONS AND ELEVATIONS SHOWN ARE BASED OFF OF AS-BUILT DRAWINGS, V.I.F.
14. WHEN REROOFING OPERATIONS REQUIRES THE REMOVAL OF ITEM(S), SUCH AS SHROUDS, REINSTALL AS SOON AS POSSIBLE. REPAIR/REPLACE IF DAMAGED.
15. ALL EXISTING PIPES, ANTENNAS, ANCHORS, ROOF PENETRATION, ETC. MAY NOT BE SHOWN - CONTRACTOR SHALL BE RESPONSIBLE TO ADDRESS ALL ROOF ITEMS.
16. ALL EXISTING ROOF DRAINS SHALL BE REPLACED UNLESS NOTED OTHERWISE, SEE PLUMBING.

KEYED DEMOLITION NOTES (NOT USED ON ALL SHEETS)

- D1 REMOVE EXISTING WALK PADS. NOTE EXISTING PLACE, AS NEW ONES WILL BE PLACED IN SAME LOCATIONS.
- D2 REMOVE WALKWAY(S) & STAIRS AS REQUIRED FOR THE REROOFING. PROTECT FROM DAMAGE. WALKWAY WILL BE REINSTALLED ONCE ROOF INSTALLATION IS COMPLETE. DOCUMENT HOW THE WALKWAY IS ATTACHED. REINSTALL THE WALKWAY WITH THE SAME FASTENERS USING THE SAME FASTENER LOCATIONS AS ORIGINALLY INSTALLED. REPLACE ANY DAMAGED OR CORRODED FASTENER WITH NEW IDENTICAL FASTENER.
- D3 REMOVE SHROUD FOR THE INSTALLATION AND ANCHORING OF THE NEW ROOF AS REQUIRED. REINSTALL AS SOON AS POSSIBLE.
- D4 REMOVE GUARDRAILS. PROTECT FROM DAMAGE. RETURN TO OWNER.
- D5 REMOVE ROOF ACCESS LADDERS AND ASSOCIATED ANCHORAGE.
- D6 METAL STAIRS, GUARDRAILS AND ASSOCIATED HARDWARE TO BE REMOVED.

SYMBOL LEGEND

	TIE DOWN ANCHORS
	MECHANICAL EQUIPMENT
	EXPANSION JOINTS (E.J.)
S	SCUPPER
RD	ROOF DRAIN
	EXHAUST VENT/HOOD
	EXHAUST VENT WITH ROOF CAP
	EXHAUST VENT WITH ROOF CAP ON RAISED PLATFORM



KEY PLAN
SCALE: NTS

Revisions | Date

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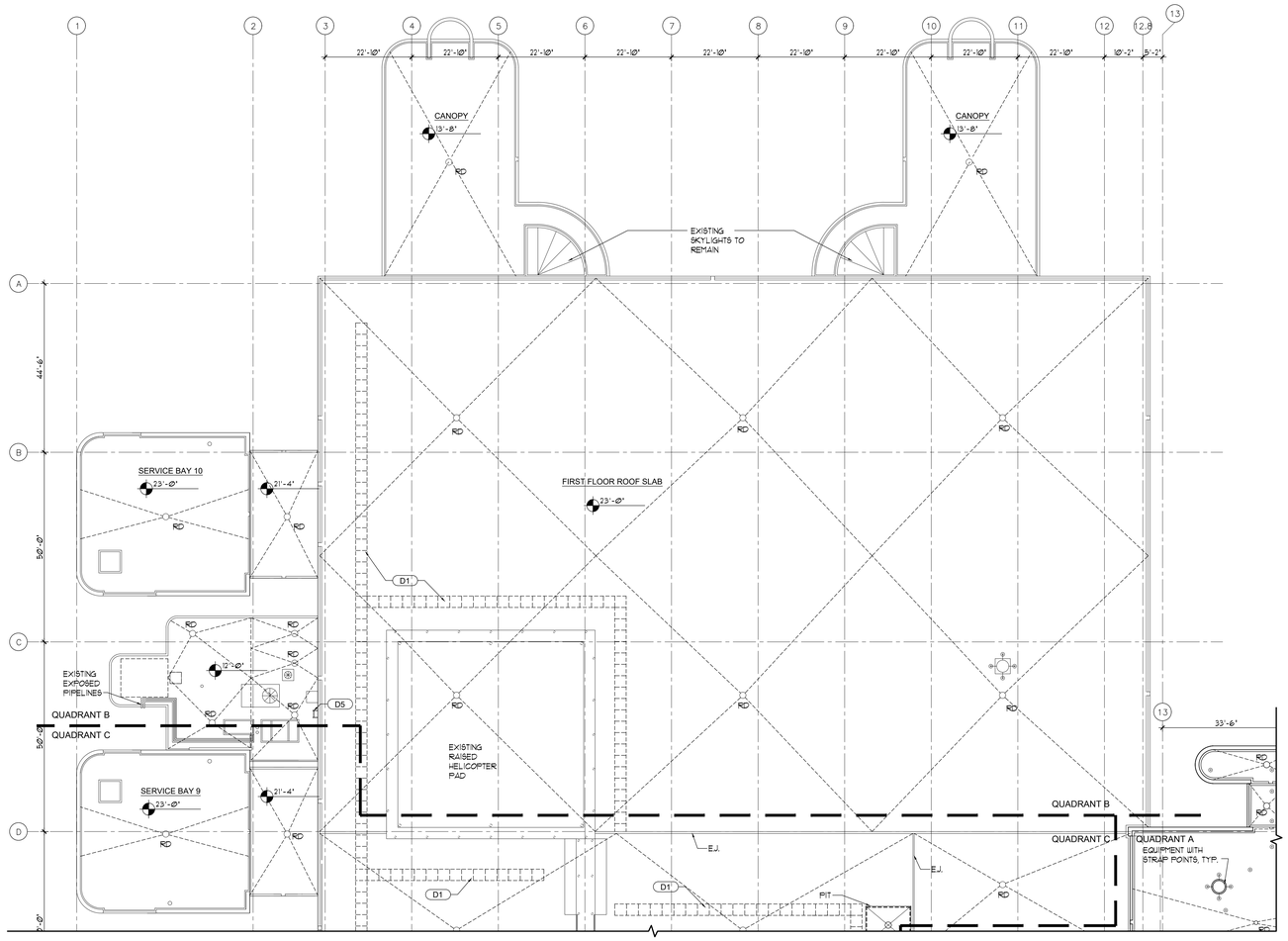
Drawing Title: DEMOLITION ROOF PLAN QUADRANT 'A' SCALE: 1/16"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines Bay Pines FL 33744	Drawn	DRAWING NO.: A101A Dwg. 5 of 39

BAY PINES MEDICAL CENTER
Department of Veterans Affairs



ROOF DEMOLITION PLAN -QUADRANT 'B'

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

GENERAL DEMOLITION NOTES

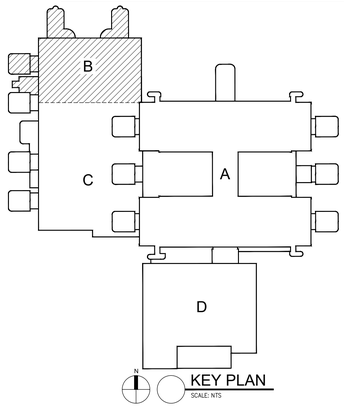
1. THIS PLAN SHOWS GENERAL ARCHITECTURAL DEMOLITION WORK TO BE PERFORMED. IT DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK REQUIRED TO PRODUCE THE BUILDING MODIFICATIONS SHOWN ON THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL DISPOSE OF DEMOLITION MATERIALS PROPERLY, OFF SITE, IN AN EXPEDITIOUS MANNER. WORK AREA(S) SHALL BE CLEANED AT THE END OF EACH DAY.
3. THE CONTRACTOR SHALL REMOVE ALL ITEMS AS OUTLINED IN THE DRAWINGS. ALL ITEMS LISTED FOR DEMOLITION ARE TO BE REMOVED. NO ITEMS WILL BE ABANDONED, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL PROVIDE MEANS OF PREVENTING DUST, FUMES AND DEBRIS FROM DEMOLITION AND CONSTRUCTION ACTIVITIES PENETRATING INTERIOR OF BUILDING.
5. REMOVE THE COMPLETE ROOFING SYSTEM, INCLUDING ROOFING FLASHING DOWN TO THE ROOF DECK.
6. REMOVE ALL ABANDONED ROOF TOP EQUIPMENT, EQUIPMENT CURBS AND EQUIPMENT STANDS. VERIFY WITH CONTRACTING OFFICERS REPRESENTATIVE (COR) PRIOR TO REMOVAL.
7. ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN USE DURING REROOF.
8. REPLACE ALL STEEL WIRE ROPE EQUIPMENT TIE DOWNS WITH NEW STAINLESS STEEL WIRE ROPE EQUIPMENT TIE DOWNS.
9. REPLACE ALL EXISTING EQUIPMENT STRAPS WITH NEW STAINLESS STEEL STRAPS.
10. ALL EXISTING ANTENNAS, ANCHOR STRAPS, ETC. TO REMAIN. REMOVE AND REINSTALL WHERE REQUIRED FOR REROOFING. PROVIDE NEW FLASHING/WEATHER PROOFING AS INDICATED IN THE DRAWINGS AND AS REQUIRED FOR A COMPLETE AND TOTAL INSTALLATION.
11. PROTECT ITEMS TO REMAIN AND ITEMS TO BE REINSTALLED FROM DAMAGE. IF DAMAGED DURING CONSTRUCTION ACTIVITIES, ITEMS SHALL BE REPLACED WITH NEW AT NO ADDITIONAL COST.
12. EXISTING ROOF SLAB ELEVATION SHOWN IS BASED OFF OF FIRST FLOOR SLAB + 0'-0".
13. ALL DIMENSIONS AND ELEVATIONS SHOWN ARE BASED OFF OF AS-BUILT DRAWINGS, V.I.F.
14. WHEN REROOFING OPERATIONS REQUIRES THE REMOVAL OF ITEM(S), SUCH AS SHROUDS, REINSTALL AS SOON AS POSSIBLE. REPAIR/REPLACE IF DAMAGED.
15. ALL EXISTING PIPES, ANTENNAS, ANCHORS, ROOF PENETRATION, ETC. MAY NOT BE SHOWN - CONTRACTOR SHALL BE RESPONSIBLE TO ADDRESS ALL ROOF ITEMS.
16. ALL EXISTING ROOF DRAINS SHALL BE REPLACED UNLESS NOTED OTHERWISE, SEE PLUMBING.

KEYED DEMOLITION NOTES (NOT USED ON ALL SHEETS)

- D1 REMOVE EXISTING WALK PADS. NOTE EXISTING PLACE, AS NEW ONES WILL BE PLACED IN SAME LOCATIONS.
- D2 REMOVE WALKWAY(S) & STAIRS AS REQUIRED FOR THE REROOFING. PROTECT FROM DAMAGE. WALKWAY WILL BE REINSTALLED ONCE ROOF INSTALLATION IS COMPLETE. DOCUMENT HOW THE WALKWAY IS ATTACHED. REINSTALL THE WALKWAY WITH THE SAME FASTENERS USING THE SAME FASTENER LOCATIONS AS ORIGINALLY INSTALLED. REPLACE ANY DAMAGED OR CORRODED FASTENER WITH NEW IDENTICAL FASTENER.
- D3 REMOVE SHROUD FOR THE INSTALLATION AND ANCHORING OF THE NEW ROOF AS REQUIRED. REINSTALL AS SOON AS POSSIBLE.
- D4 REMOVE GUARDRAILS. PROTECT FROM DAMAGE. RETURN TO OWNER.
- D5 REMOVE ROOF ACCESS LADDERS AND ASSOCIATED ANCHORAGE.
- D6 METAL STAIRS, GUARDRAILS AND ASSOCIATED HARDWARE TO BE REMOVED.

SYMBOL LEGEND

	TIE DOWN ANCHORS
	MECHANICAL EQUIPMENT
	EXPANSION JOINTS (E.J.)
S	SCUPPER
RD	ROOF DRAIN
	EXHAUST VENT/HOOD
	EXHAUST VENT WITH ROOF CAP
	EXHAUST VENT WITH ROOF CAP ON RAISED PLATFORM



KEY PLAN
SCALE: NTS

Revisions | Date

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Drawing Title: DEMOLITION ROOF PLAN QUADRANT 'B' SCALE: 1/16"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
			Project No.: 516-15-106
Approved: Division Chief	Building Number: 100	Checked	Drawn
Approved: Service Director	Location: VAMC Bay Pines Bay Pines FL 33744		DRAWING NO.: A101B Dwg. 6 of 39

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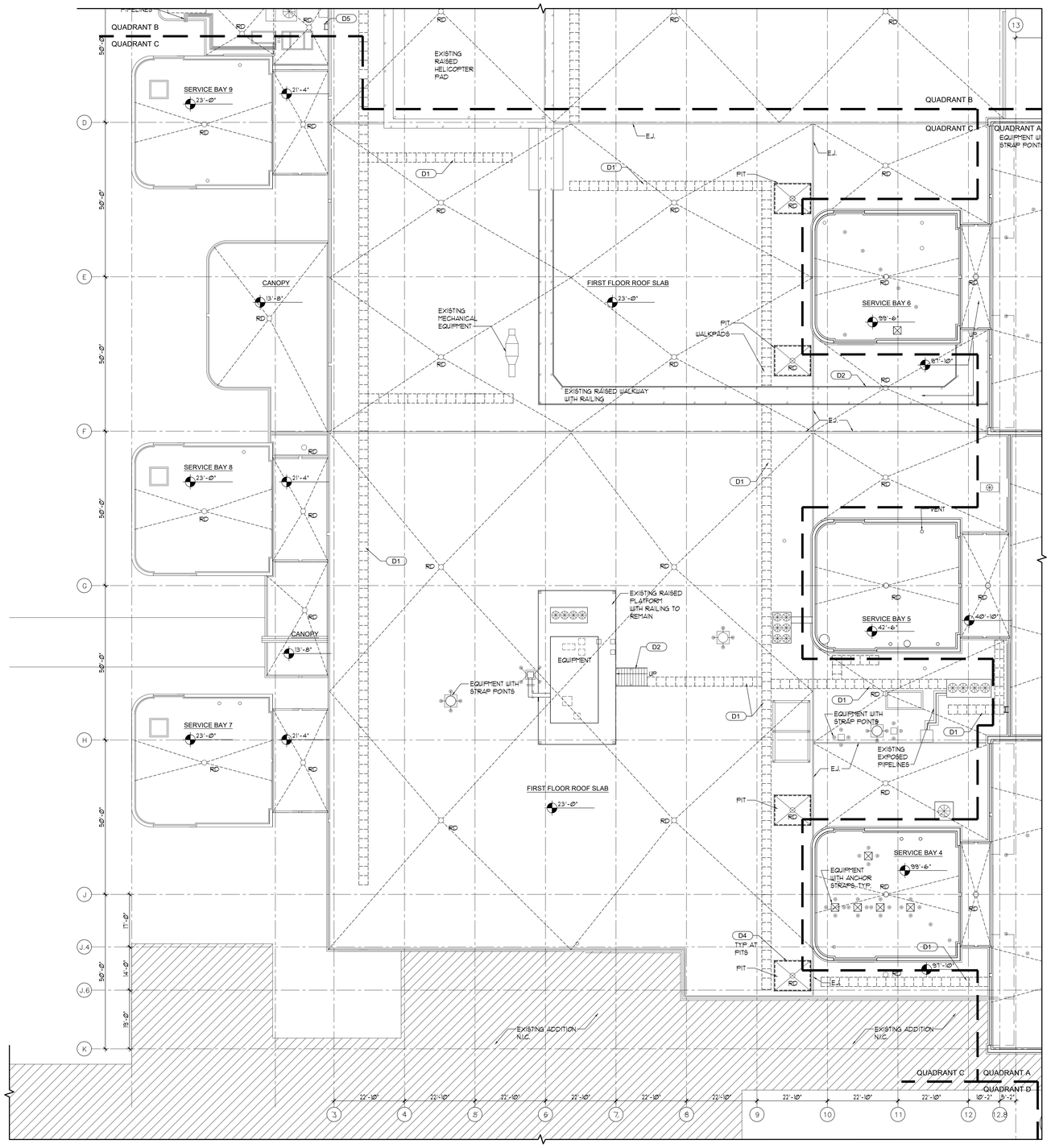


ROOF DEMOLITION PLAN -QUADRANT 'C'

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

N

GENERAL DEMOLITION NOTES

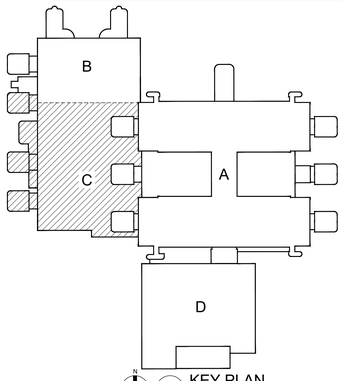
1. THIS PLAN SHOWS GENERAL ARCHITECTURAL DEMOLITION WORK TO BE PERFORMED. IT DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK REQUIRED TO PRODUCE THE BUILDING MODIFICATIONS SHOWN ON THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL DISPOSE OF DEMOLITION MATERIALS PROPERLY, OFF SITE, IN AN EXPEDITIOUS MANNER. WORK AREA(S) SHALL BE CLEANED AT THE END OF EACH DAY.
3. THE CONTRACTOR SHALL REMOVE ALL ITEMS AS OUTLINED IN THE DRAWINGS. ALL ITEMS LISTED FOR DEMOLITION ARE TO BE REMOVED. NO ITEMS WILL BE ABANDONED, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL PROVIDE MEANS OF PREVENTING DUST, FUMES AND DEBRIS FROM DEMOLITION AND CONSTRUCTION ACTIVITIES PENETRATING INTERIOR OF BUILDING.
5. REMOVE THE COMPLETE ROOFING SYSTEM, INCLUDING ROOFING FLASHING DOWN TO THE ROOF DECK.
6. REMOVE ALL ABANDONED ROOF TOP EQUIPMENT, EQUIPMENT CURBS AND EQUIPMENT STANDS. VERIFY WITH CONTRACTING OFFICERS REPRESENTATIVE (COR) PRIOR TO REMOVAL.
7. ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN USE DURING REROOF.
8. REPLACE ALL STEEL WIRE ROPE EQUIPMENT TIE DOWNS WITH NEW STAINLESS STEEL WIRE ROPE EQUIPMENT TIE DOWNS.
9. REPLACE ALL EXISTING EQUIPMENT STRAPS WITH NEW STAINLESS STEEL STRAPS.
10. ALL EXISTING ANTENNAS, ANCHOR STRAPS, ETC. TO REMAIN, REMOVE AND REINSTALL WHERE REQUIRED FOR REROOFING. PROVIDE NEW FLASHING/WEATHER PROOFING AS INDICATED IN THE DRAWINGS AND AS REQUIRED FOR A COMPLETE AND TOTAL INSTALLATION.
11. PROTECT ITEMS TO REMAIN AND ITEMS TO BE REINSTALLED FROM DAMAGE. IF DAMAGED DURING CONSTRUCTION ACTIVITIES, ITEMS SHALL BE REPLACED WITH NEW AT NO ADDITIONAL COST.
12. EXISTING ROOF SLAB ELEVATION SHOWN IS BASED OFF OF FIRST FLOOR SLAB + 0'-0".
13. ALL DIMENSIONS AND ELEVATIONS SHOWN ARE BASED OFF OF AS-BUILT DRAWINGS, V.I.F.
14. WHEN REROOFING OPERATIONS REQUIRES THE REMOVAL OF ITEM(S) SUCH AS SHROUDS, REINSTALL AS SOON AS POSSIBLE. REPAIR/REPLACE IF DAMAGED.
15. ALL EXISTING PIPES, ANTENNAS, ANCHORS, ROOF PENETRATION, ETC. MAY NOT BE SHOWN - CONTRACTOR SHALL BE RESPONSIBLE TO ADDRESS ALL ROOF ITEMS.
16. ALL EXISTING ROOF DRAINS SHALL BE REPLACED UNLESS NOTED OTHERWISE, SEE PLUMBING.

KEYED DEMOLITION NOTES (NOT USED ON ALL SHEETS)

- D1 REMOVE EXISTING WALK PADS. NOTE EXISTING PLACE, AS NEW ONES WILL BE PLACED IN SAME LOCATIONS.
- D2 REMOVE WALKWAY(S) & STAIRS AS REQUIRED FOR THE REROOFING. PROTECT FROM DAMAGE. WALKWAY WILL BE REINSTALLED ONCE ROOF INSTALLATION IS COMPLETE. DOCUMENT HOW THE WALKWAY IS ATTACHED. REINSTALL THE WALKWAY WITH THE SAME FASTENERS USING THE SAME FASTENER LOCATIONS AS ORIGINALLY INSTALLED. REPLACE ANY DAMAGED OR CORRODED FASTENER WITH NEW IDENTICAL FASTENER.
- D3 REMOVE SHROUD FOR THE INSTALLATION AND ANCHORING OF THE NEW ROOF AS REQUIRED. REINSTALL AS SOON AS POSSIBLE.
- D4 REMOVE GUARDRAILS. PROTECT FROM DAMAGE, RETURN TO OWNER.
- D5 REMOVE ROOF ACCESS LADDERS AND ASSOCIATED ANCHORAGE.
- D6 METAL STAIRS, GUARDRAILS AND ASSOCIATED HARDWARE TO BE REMOVED.

SYMBOL LEGEND

	TIE DOWN ANCHORS
	MECHANICAL EQUIPMENT
	EXPANSION JOINTS (E.J.)
S	SCUPPER
RD	ROOF DRAIN
	EXHAUST VENT/HOOD
	EXHAUST VENT WITH ROOF CAP
	EXHAUST VENT WITH ROOF CAP ON RAISED PLATFORM



KEY PLAN
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Drawing Title: DEMOLITION ROOF PLAN QUADRANT 'C'	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
SCALE: 1/16"=1'-0"			Project No. 516-15-106
Approved: Division Chief	Building Number: 100	Checked / Drawn	DRAWING NO. A101C
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		Dwg. 7 Of 39

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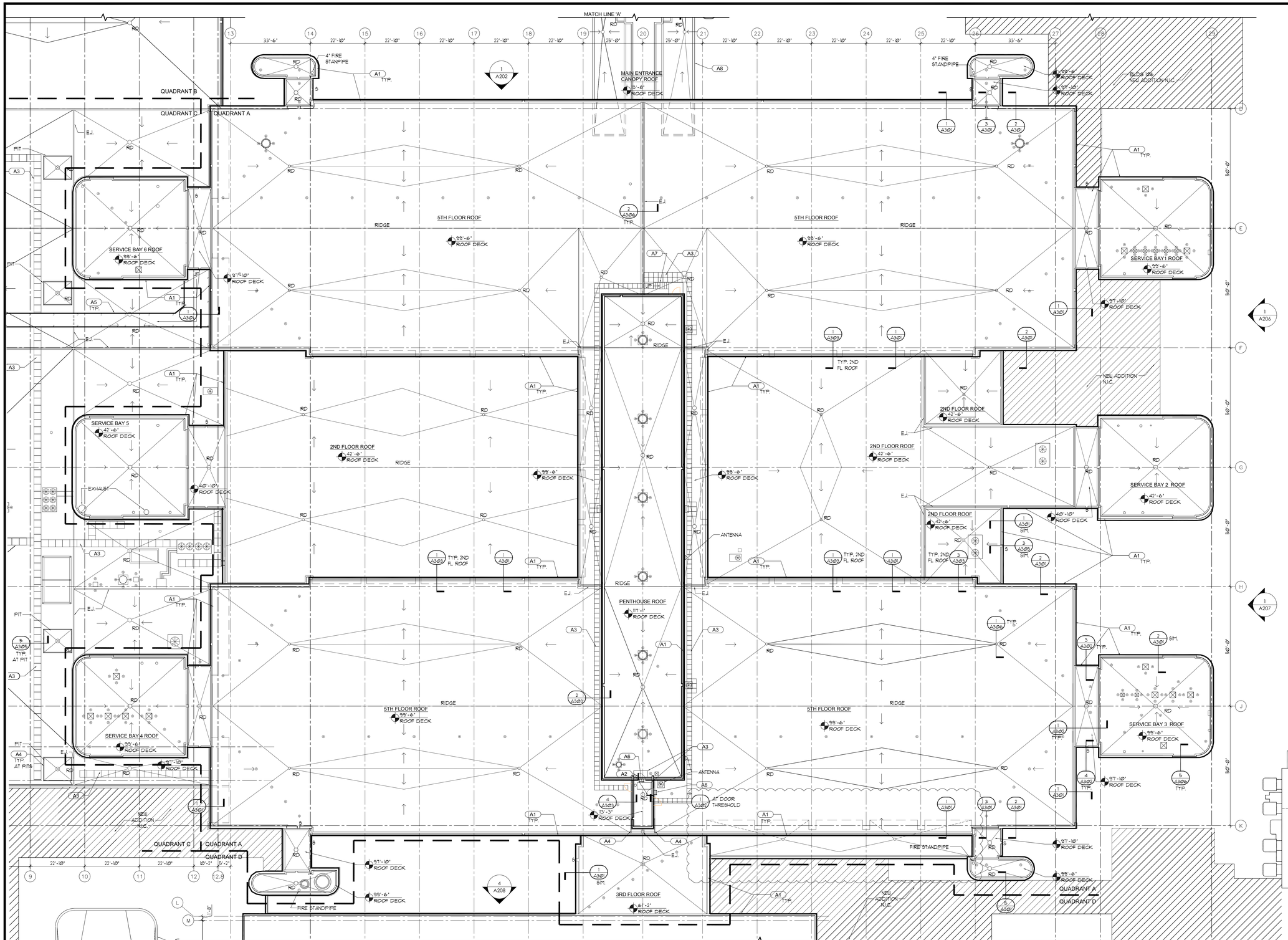


ROOF PLAN -QUADRANT 'A'

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

CONT. OF MAIN ENTRY CANOPY

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

GENERAL ROOF PLAN NOTES

1. INSTALL ALL PRODUCTS PER THE MANUFACTURE'S CURRENT WRITTEN INSTRUCTIONS FOR WIND ZONE AND WARRANTY NOTED IN DOCUMENTS AS WELL AS CURRENT EDITION OF THE NATIONAL ROOFING CONTRACTORS ASSOCIATION MANUAL (NRCA).
2. ROOF DECK IS CONCRETE, U.O.N. (A-10B.)
3. COORDINATE LOCATION OF ROOF PENETRATIONS ONSITE AND WITH ALL OTHER TRADES.
4. QUADRANT 'D' IS TO RECEIVE NEW GUARDRAIL ONLY. EXISTING ROOFING SYSTEM, LIGHTNING PROTECTION AND ROOF DRAINS TO REMAIN.
5. PREPARE ROOF SLAB AND PARAPET FOR NEW MATERIALS. PATCH/REPAIR ANY DAMAGED AREAS, FILL ANY VOIDS WITH CONCRETE TO MATCH EXISTING.
6. EXISTING SCUPPERS TO BE MAINTAINED.
7. MAINTAIN ALL EXISTING EXPANSION JOINTS AND EXPANSION JOINT ACCESSORIES.
8. NO WORK TO BE PERFORMED AT THE PITS ON THE 1ST FLOOR EXCEPT THE REMOVAL AND REPLACEMENT OF THE GUARDRAILS AS DESCRIBED IN THE DOCUMENTS. THE EXISTING ROOF DRAINS WILL REMAIN.
9. ROOFING: (MFG BY GAF PER NOA 15-1000004, DECK TYPE 31, OR EQUAL.)

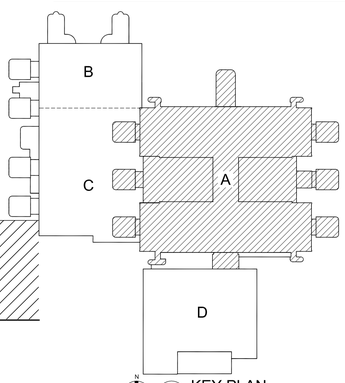
MAIN BUILDING ROOFING SYSTEM:
A. TEAR OFF TO CONCRETE DECK
B. PRIME DECK, TORCH RUBEROID SBS HW 75
C. INSTALL BASE LAYER OF POLYISO INSULATION IN GAS OLYBOND500. INSTALL 1/8" TAPERED IN GAF OLYBOND500 INSTALL 1/2" SECUROCK IN GAF OLYBOND500
D. 2 PLIES RUBEROID SBS HW 75
E. RUBEROID ENERGY CAP SBS HW PLUS FR
F. 20YR NDL

KEYED PLAN NOTES (NOT USED ON ALL SHEETS)

- A1 NEW GUARD RAIL TO BE INSTALLED ALONG ENTIRE PERIMETER OF ROOF. TOP OF RAIL TO BE 42" ABOVE ADJACENT ROOF.
- A2 PROVIDE 3'-0" WIDE GATE IN GUARD RAIL WITH LATCH FOR ACCESS TO ROOF BELOW. GATE TO SWING IN OVER HIGHER ROOF.
- A3 NEW WALK PADS
- A4 INSTALL NEW GUARDRAILS AND REQUIRED ANCHORAGE, TOP OF GUARDRAIL TO BE 42" ABOVE ADJACENT ROOF.
- A5 REINSTALL EXISTING WALKWAY(S) & STAIRS AND REQUIRED ANCHORAGE. REPAIR/REPLACE ANY DAMAGED COMPONENTS.
- A6 NEW FIXED ROOF ACCESS WALK THROUGH LADDER. PATCH/REPAIR AND THEN PAINT ANY DAMAGE/ ABANDONED HOLES IN ADJACENT SURFACES, TEXTURE AND COLOR TO MATCH EXISTING.
- A7 NEW METAL STAIR AND GUARDRAIL PAINTED TO MATCH EXISTING. PATCH/REPAIR AND THEN PAINT ANY DAMAGE/ ABANDONED HOLES IN ADJACENT SURFACES, TEXTURE AND COLOR TO MATCH EXISTING. INSTALL IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS SIGNED & SEALED BY A FLORIDA REGISTERED ENGINEER SHOWING ALL ANCHORING, ETC.
- A8 NO GUARDRAILS AT THE FOLLOWING CANOPIES:
  MAIN ENTRANCE CANOPY (NORTH SIDE OF QUADRANT A)
  CANOPY 1 (NORTH SIDE OF QUADRANT B)
  CANOPY 2 (NORTH SIDE OF QUADRANT B)
  CANOPY3 (WEST SIDE OF QUADRANT C)

SYMBOL LEGEND

XXX	DOOR NUMBER, SEE DOOR SCHEDULE
⟶	DIRECTION OF SLOPE
⊗	TIE DOWN ANCHORS
	AC CONDENSING UNITS
	EXPANSION JOINTS (E.J.)
5	SCUPPER, SEE PLUMBING
RD	NEW ROOF DRAIN, SEE PLUMBING
	EXHAUST VENT/HOOD
	EXHAUST VENT WITH ROOF CAP
	EXHAUST VENT WITH ROOF CAP ON RAISED PLATFORM



KEY PLAN
SCALE: NTS

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Drawing Title: ROOF PLAN QUADRANT 'A' SCALE: 1/16"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744	Drawn	DRAWING NO.: A102A
			Dwg. 8 Of 39

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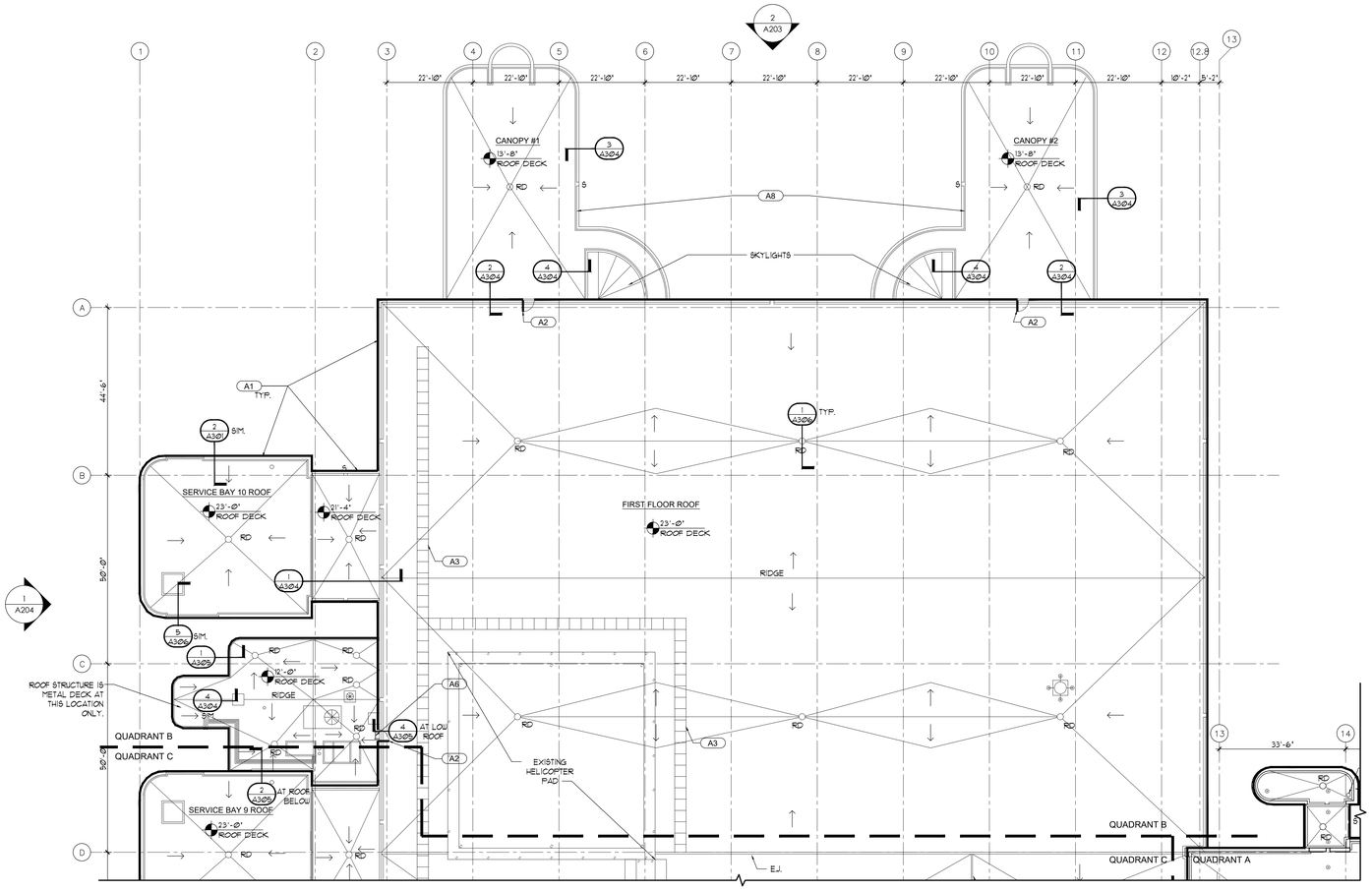


ROOF PLAN -QUADRANT 'B'

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

GENERAL ROOF PLAN NOTES

1. INSTALL ALL PRODUCTS PER THE MANUFACTURE'S CURRENT WRITTEN INSTRUCTIONS FOR WIND ZONE AND WARRANTY NOTED IN DOCUMENTS AS WELL AS CURRENT EDITION OF THE NATIONAL ROOFING CONTRACTORS ASSOCIATION MANUAL (NRCA).
2. ROOF DECK IS CONCRETE, U.O.N. (A-10/B).
3. COORDINATE LOCATION OF ROOF PENETRATIONS ONSITE AND WITH ALL OTHER TRADES.
4. QUADRANT 'D' IS TO RECEIVE NEW GUARDRAIL ONLY. EXISTING ROOFING SYSTEM, LIGHTNING PROTECTION AND ROOF DRAINS TO REMAIN.
5. PREPARE ROOF SLAB AND PARAPET FOR NEW MATERIALS. PATCH/REPAIR ANY DAMAGED AREAS, FILL ANY VOIDS WITH CONCRETE TO MATCH EXISTING.
6. EXISTING SCUPPERS TO BE MAINTAINED.
7. MAINTAIN ALL EXISTING EXPANSION JOINTS AND EXPANSION JOINT ACCESSORIES.
8. NO WORK TO BE PERFORMED AT THE PITS ON THE 1ST FLOOR EXCEPT THE REMOVAL AND REPLACEMENT OF THE GUARDRAILS AS DESCRIBED IN THE DOCUMENTS. THE EXISTING ROOF DRAINS WILL REMAIN.
9. ROOFING: (MFG BY GAF PER NOA 15-1001.04, DECK TYPE 31, OR EQUAL)

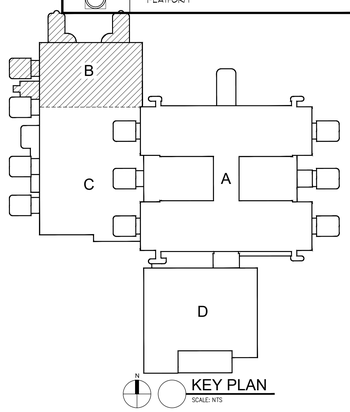
MAIN BUILDING ROOFING SYSTEM:
A. TEAR OFF TO CONCRETE DECK
B. PRIME DECK, TORCH RUBEROID SBS HW 25
C. INSTALL BASE LAYER OF POLYISO INSULATION IN GAS OLYBOND500. INSTALL 1/8" TAPERED IN GAF OLYBOND500 INSTALL 1/2" SECUROCK IN GAF OLYBOND500
D. 2 PLIES RUBEROID SBS HW 25
E. RUBEROID ENERGY GAP SBS HW PLUS FR
F. 20YR NDL

KEYED PLAN NOTES (NOT USED ON ALL SHEETS)

- (A1) NEW GUARD RAIL TO BE INSTALLED ALONG ENTIRE PERIMETER OF ROOF. TOP OF RAIL TO BE 42" ABOVE ADJACENT ROOF.
- (A2) PROVIDE 3'-0" WIDE GATE IN GUARD RAIL WITH LATCH FOR ACCESS TO ROOF BELOW. GATE TO SWING IN OVER HIGHER ROOF.
- (A3) NEW WALK PADS
- (A4) INSTALL NEW GUARDRAILS AND REQUIRED ANCHORAGE, TOP OF GUARDRAIL TO BE 42" ABOVE ADJACENT ROOF.
- (A5) REINSTALL EXISTING WALKWAY(S) & STAIRS AND REQUIRED ANCHORAGE. REPAIR/REPLACE ANY DAMAGED COMPONENTS.
- (A6) NEW FIXED ROOF ACCESS WALK THROUGH LADDER. PATCH/REPAIR AND THEN PAINT ANY DAMAGE/ ABANDONED HOLES IN ADJACENT SURFACES, TEXTURE AND COLOR TO MATCH EXISTING.
- (A7) NEW METAL STAIR AND GUARDRAIL, PAINTED TO MATCH EXISTING. PATCH/REPAIR AND THEN PAINT ANY DAMAGE/ ABANDONED HOLES IN ADJACENT SURFACES, TEXTURE AND COLOR TO MATCH EXISTING. INSTALL IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS SIGNED & SEALED BY A FLORIDA REGISTERED ENGINEER SHOWING ALL ANCHORING, ETC.
- (A8) NO GUARDRAILS AT THE FOLLOWING CANOPIES:
  MAIN ENTRANCE CANOPY (NORTH SIDE OF QUADRANT A)
  CANOPY 1 (NORTH SIDE OF QUADRANT B)
  CANOPY 2 (NORTH SIDE OF QUADRANT B)
  CANOPY3 (WEST SIDE OF QUADRANT C)

SYMBOL LEGEND

(XXX)	DOOR NUMBER, SEE DOOR SCHEDULE
⟶	DIRECTION OF SLOPE
⊙	TIE DOWN ANCHORS
	AC CONDENSING UNITS
	EXPANSION JOINTS (E.J.)
S	SCUPPER, SEE PLUMBING
○ RD	NEW ROOF DRAIN, SEE PLUMBING
	EXHAUST VENT/HOOD
	EXHAUST VENT WITH ROOF CAP
	EXHAUST VENT WITH ROOF CAP ON RAISED PLATFORM



KEY PLAN
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Drawing Title: ROOF PLAN QUADRANT 'B' SCALE: 1/16"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked / Drawn	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines Bay Pines FL 33744		DRAWING NO.: A102B Dwg. 9 of 39

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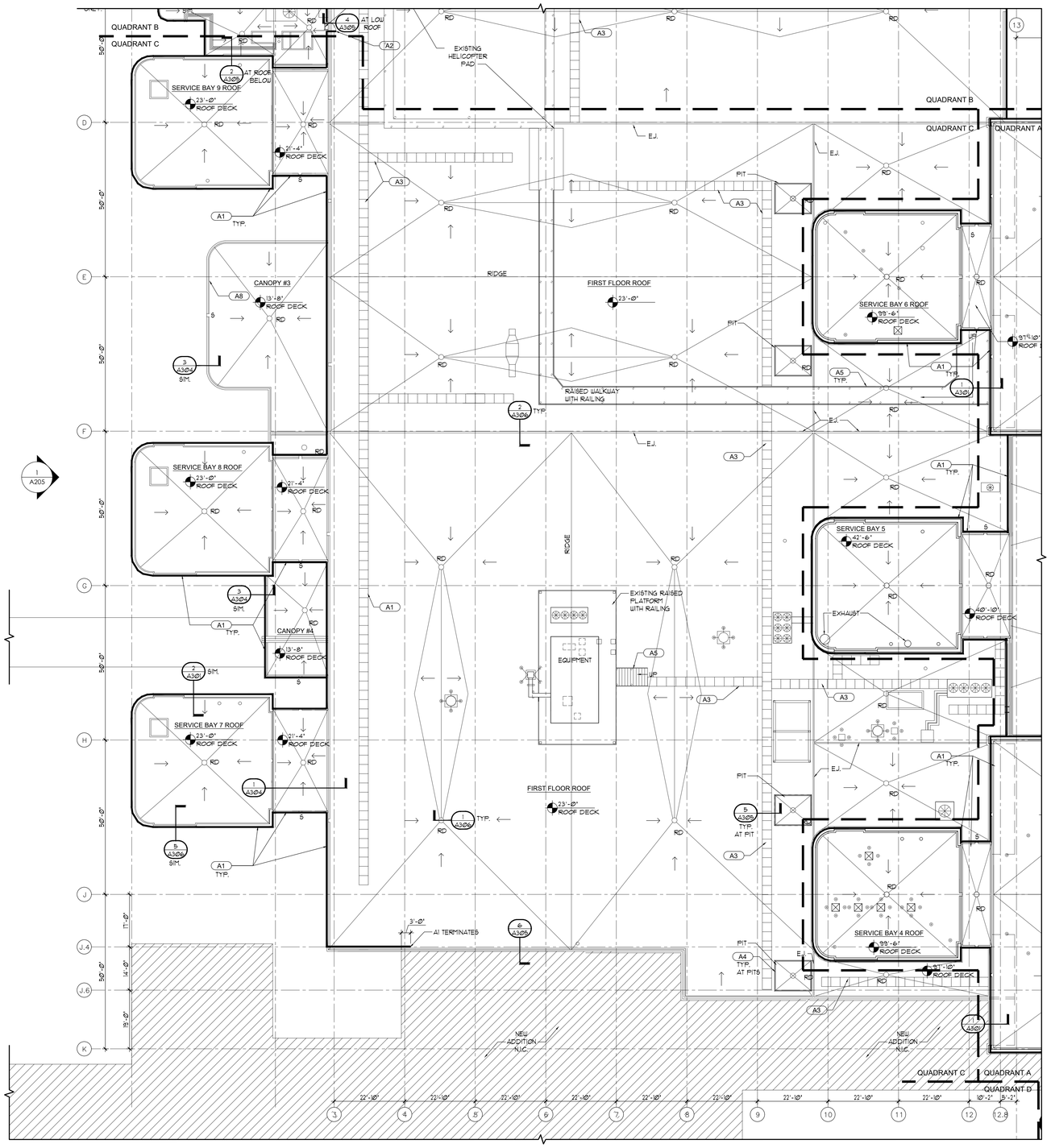
Department of Veterans Affairs

Revisions	Date



ROOF PLAN -QUADRANT 'C'

SCALE : 1/16' = 1'-0'

GENERAL ROOF PLAN NOTES

1. INSTALL ALL PRODUCTS PER THE MANUFACTURE'S CURRENT WRITTEN INSTRUCTIONS FOR WIND ZONE AND WARRANTY NOTED IN DOCUMENTS AS WELL AS CURRENT EDITION OF THE NATIONAL ROOFING CONTRACTORS ASSOCIATION MANUAL (NRCA).
2. ROOF DECK IS CONCRETE, U.O.N. (A-10/B).
3. COORDINATE LOCATION OF ROOF PENETRATIONS ONSITE AND WITH ALL OTHER TRADES.
4. QUADRANT 'D' IS TO RECEIVE NEW GUARDRAIL ONLY. EXISTING ROOFING SYSTEM, LIGHTNING PROTECTION AND ROOF DRAINS TO REMAIN.
5. PREPARE ROOF SLAB AND PARAPET FOR NEW MATERIALS. PATCH/REPAIR ANY DAMAGED AREAS, FILL ANY VOIDS WITH CONCRETE TO MATCH EXISTING.
6. EXISTING SCUPPERS TO BE MAINTAINED.
7. MAINTAIN ALL EXISTING EXPANSION JOINTS AND EXPANSION JOINT ACCESSORIES.
8. NO WORK TO BE PERFORMED AT THE PITS ON THE 1ST FLOOR EXCEPT THE REMOVAL AND REPLACEMENT OF THE GUARDRAILS AS DESCRIBED IN THE DOCUMENTS. THE EXISTING ROOF DRAINS WILL REMAIN.
9. ROOFING: (MFG BY GAF PER NOA 15-1001.04, DECK TYPE 31, OR EQUAL)

MAIN BUILDING ROOFING SYSTEM:
A. TEAR OFF TO CONCRETE DECK
B. PRIME DECK TORCH RUBEROID SBS HW 25
C. INSTALL BASE LAYER OF POLYISO INSULATION IN GAS GLYBOND500. INSTALL 1/8" TAPERED IN GAF GLYBOND500 INSTALL 1/2" SECUROCK IN GAF GLYBOND500
D. 2 PLIES RUBEROID SBS HW 25
E. RUBEROID ENERGY CAP SBS HW PLUS FR
F. 20YR NDL

KEYED PLAN NOTES (NOT USED ON ALL SHEETS)

- (A1) NEW GUARD RAIL TO BE INSTALLED ALONG ENTIRE PERIMETER OF ROOF. TOP OF RAIL TO BE 42" ABOVE ADJACENT ROOF.
- (A2) PROVIDE 3'-0" WIDE GATE IN GUARD RAIL WITH LATCH FOR ACCESS TO ROOF BELOW. GATE TO SWING IN OVER HIGHER ROOF.
- (A3) NEW WALK PADS
- (A4) INSTALL NEW GUARDRAILS AND REQUIRED ANCHORAGE, TOP OF GUARDRAIL TO BE 42" ABOVE ADJACENT ROOF.
- (A5) REINSTALL EXISTING WALKWAY(S) & STAIRS AND REQUIRED ANCHORAGE. REPAIR/REPLACE ANY DAMAGED COMPONENTS.
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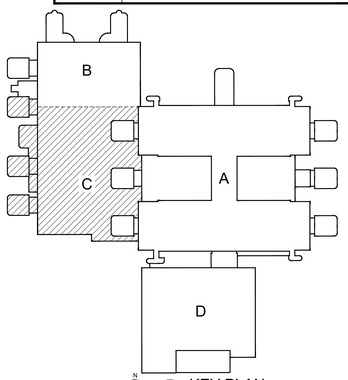
- (A8) NO GUARDRAILS AT THE FOLLOWING CANOPIES:
  MAIN ENTRANCE CANOPY (NORTH SIDE OF QUADRANT A)
  CANOPY 1 (NORTH SIDE OF QUADRANT B)
  CANOPY 2 (NORTH SIDE OF QUADRANT B)
  CANOPY 3 (WEST SIDE OF QUADRANT C)

SYMBOL LEGEND

(XXX)	DOOR NUMBER, SEE DOOR SCHEDULE
⟶	DIRECTION OF SLOPE
⊙	TIE DOWN ANCHORS
⊗ ⊗ ⊗	AC CONDENSING UNITS
═	EXPANSION JOINTS (E.J.)
S	SCUPPER, SEE PLUMBING
○ RD	NEW ROOF DRAIN, SEE PLUMBING
⊠ ○	EXHAUST VENT/HOOD
◯ □	EXHAUST VENT WITH ROOF CAP
◯	EXHAUST VENT WITH ROOF CAP ON RAISED PLATFORM



KEY PLAN
SCALE: NTS

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Drawing Title: ROOF PLAN QUADRANT 'C' SCALE: 1/16"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines Bay Pines FL 33744	Drawn	DRAWING NO.: A102C Dwg. 10 of 39

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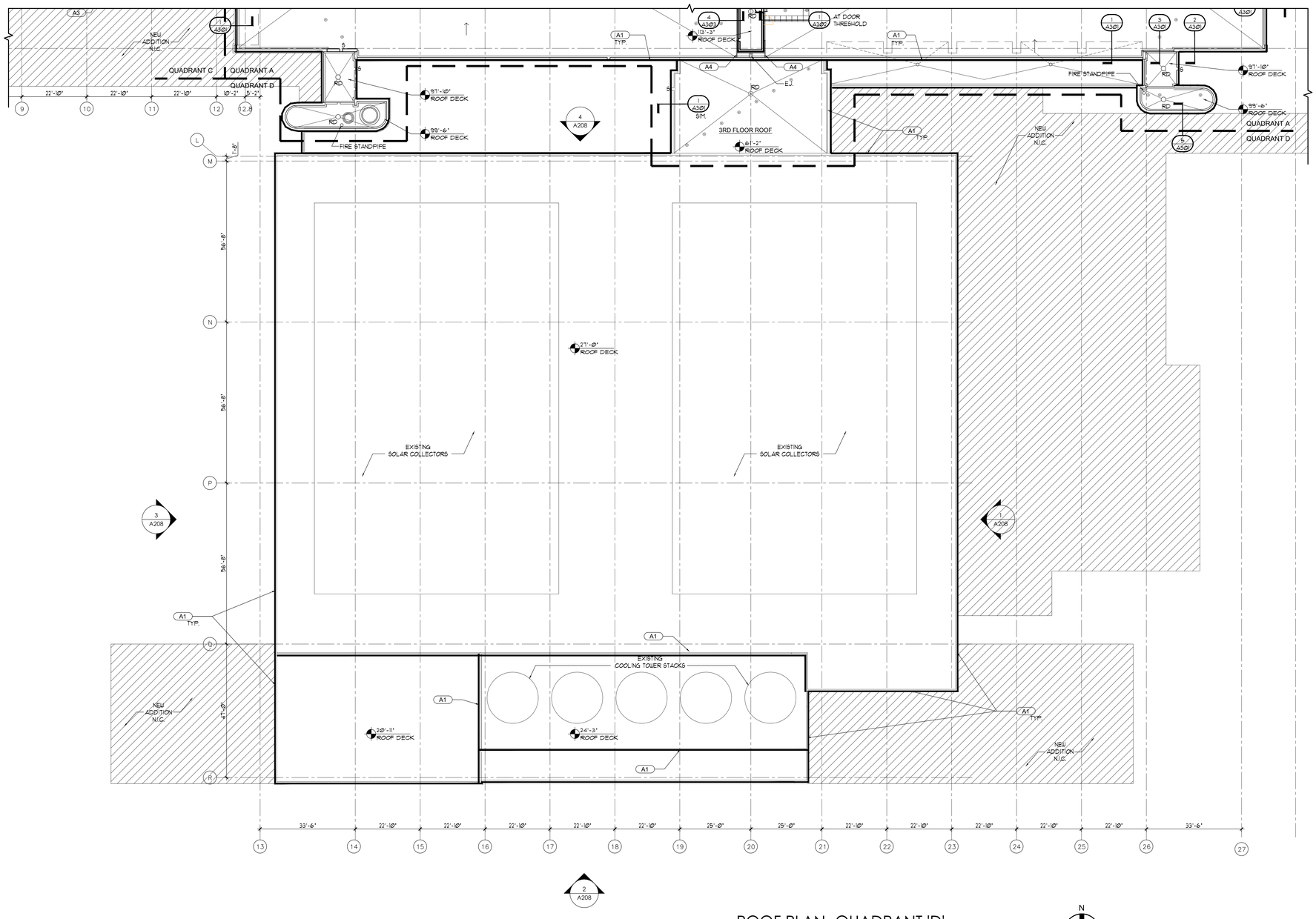


ROOF PLAN -QUADRANT 'D'

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

N

GENERAL ROOF PLAN NOTES

1. INSTALL ALL PRODUCTS PER THE MANUFACTURE'S CURRENT WRITTEN INSTRUCTIONS FOR WIND ZONE AND WARRANTY NOTED IN DOCUMENTS AS WELL AS CURRENT EDITION OF THE NATIONAL ROOFING CONTRACTORS ASSOCIATION MANUAL (NRCA).
2. ROOF DECK IS CONCRETE, U.O.N. (A-10/2B).
3. COORDINATE LOCATION OF ROOF PENETRATIONS ONSITE AND WITH ALL OTHER TRADES.
4. QUADRANT 'D' IS TO RECEIVE NEW GUARDRAIL ONLY. EXISTING ROOFING SYSTEM, LIGHTNING PROTECTION AND ROOF DRAINS TO REMAIN.
5. PREPARE ROOF SLAB AND PARAPET FOR NEW MATERIALS. PATCH/REPAIR ANY DAMAGED AREAS, FILL ANY VOIDS WITH CONCRETE TO MATCH EXISTING.
6. EXISTING SCUPPERS TO BE MAINTAINED.
7. MAINTAIN ALL EXISTING EXPANSION JOINTS AND EXPANSION JOINT ACCESSORIES.
8. NO WORK TO BE PERFORMED AT THE PITS ON THE 1ST FLOOR EXCEPT THE REMOVAL AND REPLACEMENT OF THE GUARDRAILS AS DESCRIBED IN THE DOCUMENTS. THE EXISTING ROOF DRAINS WILL REMAIN.
9. ROOFING: (MFG BY GAF PER NOA 15-1001.04, DECK TYPE 31, OR EQUAL)

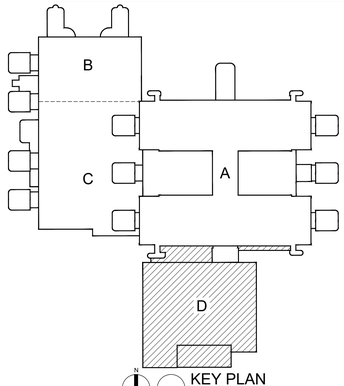
MAIN BUILDING ROOFING SYSTEM:
A. TEAR OFF TO CONCRETE DECK
B. PRIME DECK, TORCH RUBEROID SBS HW 25
C. INSTALL BASE LAYER OF POLYISO INSULATION IN GAS OLYBOND500. INSTALL 1/8" TAPERED IN GAF OLYBOND500 INSTALL 1/2" SECUROCK IN GAF OLYBOND500
D. 2 PLIES RUBEROID SBS HW 25
E. RUBEROID ENERGY CAP SBS HW PLUS FR
F. 20YR NDL

KEYED PLAN NOTES (NOT USED ON ALL SHEETS)

- (A1) NEW GUARD RAIL TO BE INSTALLED ALONG ENTIRE PERIMETER OF ROOF. TOP OF RAIL TO BE 42" ABOVE ADJACENT ROOF.
- (A2) PROVIDE 3'-0" WIDE GATE IN GUARD RAIL WITH LATCH FOR ACCESS TO ROOF BELOW. GATE TO SWING IN OVER HIGHER ROOF.
- (A3) NEW WALK PADS
- (A4) INSTALL NEW GUARDRAILS AND REQUIRED ANCHORAGE, TOP OF GUARDRAIL TO BE 42" ABOVE ADJACENT ROOF.
- (A5) REINSTALL EXISTING WALKWAY(S) & STAIRS AND REQUIRED ANCHORAGE. REPAIR/REPLACE ANY DAMAGED COMPONENTS.
- (A6) NEW FIXED ROOF ACCESS WALK THROUGH LADDER. PATCH/REPAIR AND THEN PAINT ANY DAMAGE/ ABANDONED HOLES IN ADJACENT SURFACES, TEXTURE AND COLOR TO MATCH EXISTING.
- (A7) NEW METAL STAIR AND GUARDRAIL, PAINTED TO MATCH EXISTING. PATCH/REPAIR AND THEN PAINT ANY DAMAGE/ ABANDONED HOLES IN ADJACENT SURFACES, TEXTURE AND COLOR TO MATCH EXISTING. INSTALL IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS SIGNED & SEALED BY A FLORIDA REGISTERED ENGINEER SHOWING ALL ANCHORING, ETC.
- (A8) NO GUARDRAILS AT THE FOLLOWING CANOPIES:
  MAIN ENTRANCE CANOPY (NORTH SIDE OF QUADRANT A)
  CANOPY 1 (NORTH SIDE OF QUADRANT B)
  CANOPY 2 (NORTH SIDE OF QUADRANT B)
  CANOPY 3 (WEST SIDE OF QUADRANT C)

SYMBOL LEGEND

(XXX)	DOOR NUMBER, SEE DOOR SCHEDULE
⟶	DIRECTION OF SLOPE
◎	TIE DOWN ANCHORS
⊗ ⊗ ⊗	AC CONDENSING UNITS
	EXPANSION JOINTS (EJ)
S	SCUPPER, SEE PLUMBING
○ RD	NEW ROOF DRAIN, SEE PLUMBING
☒ ○	EXHAUST VENT/HOOD
◯ □	EXHAUST VENT WITH ROOF CAP
◎	EXHAUST VENT WITH ROOF CAP ON RAISED PLATFORM



KEY PLAN
SCALE: NTS

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Drawing Title: ROOF PLAN QUADRANT 'D' NEW SAFETY RAIL PLAN SCALE: 1/16"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100	Date: 07.26.16	
Approved: Division Chief	Building Number: 100 / Checked / Drawn	Project No. 516-15-106	
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744	DRAWING NO. A102D Dwg. 11 of 39	

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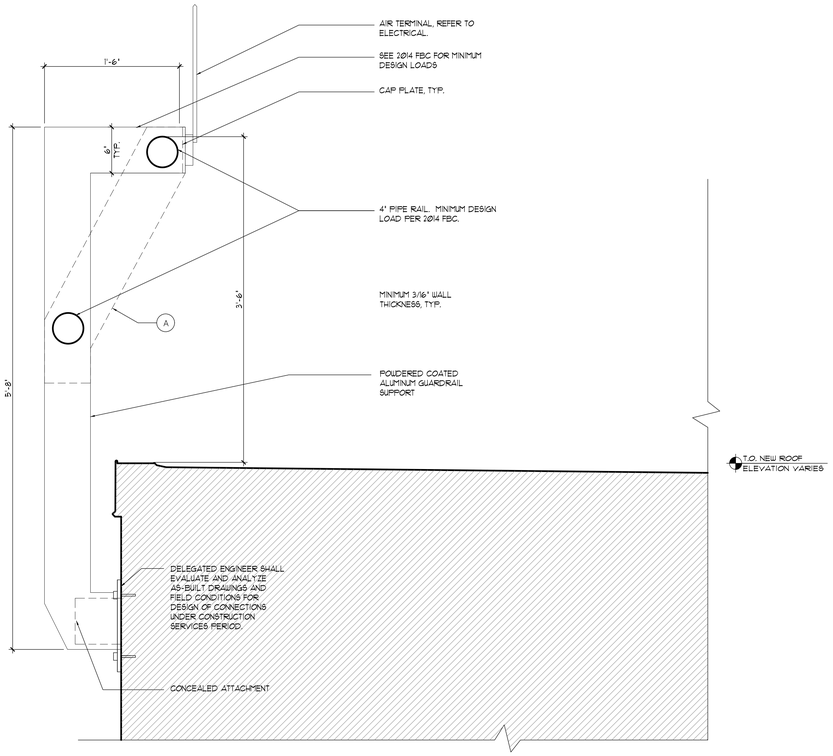
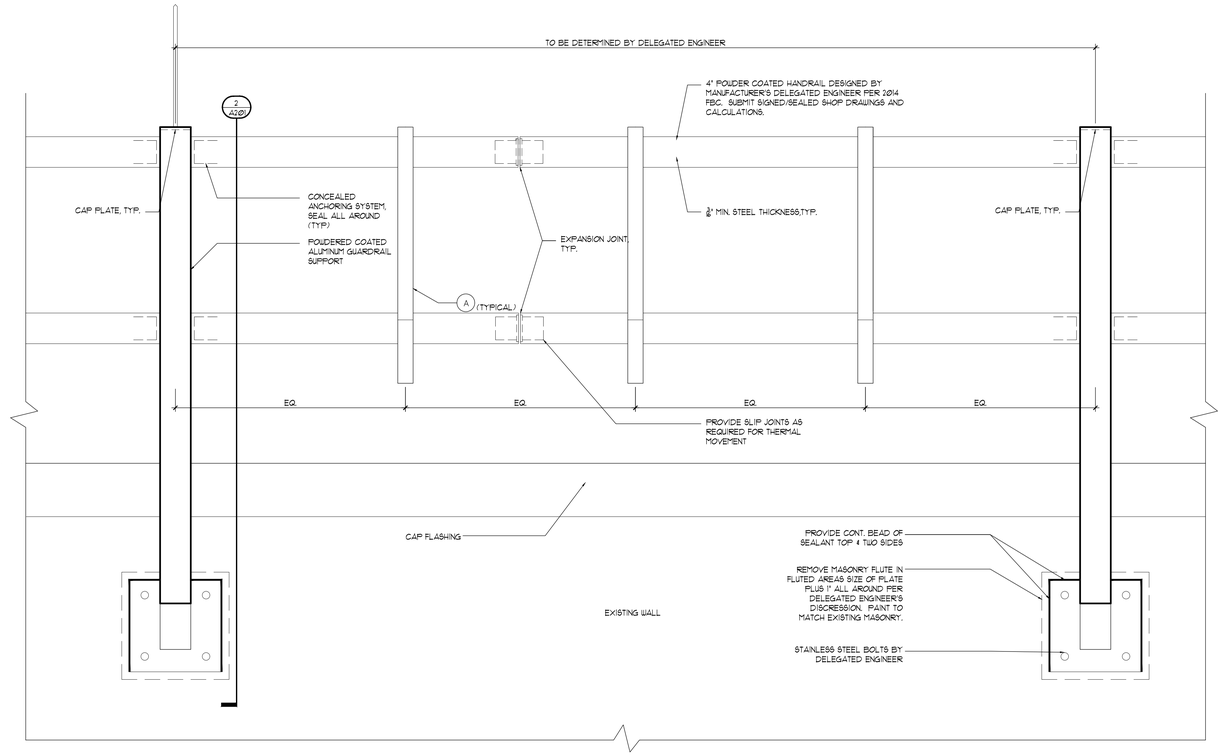
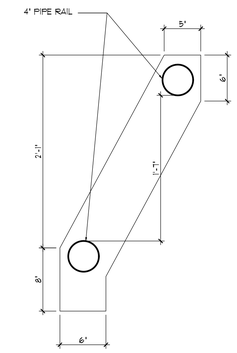


2 RAILING SECTION
SCALE: 1 1/2" = 1'-0"



1 RAILING ELEVATION
SCALE: 1 1/2" = 1'-0"



A RAILING SUPPORT
SCALE: 1 1/2" = 1'-0"

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Drawing Title: GUARD RAIL DETAILS AND DOOR SCHEDULE	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
SCALE: AS NOTED			Project No.: 516-15-106
Approved: Division Chief	Building Number: 100	Checked	Drawn
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO.: A201
			Dwg. 12 Of 39

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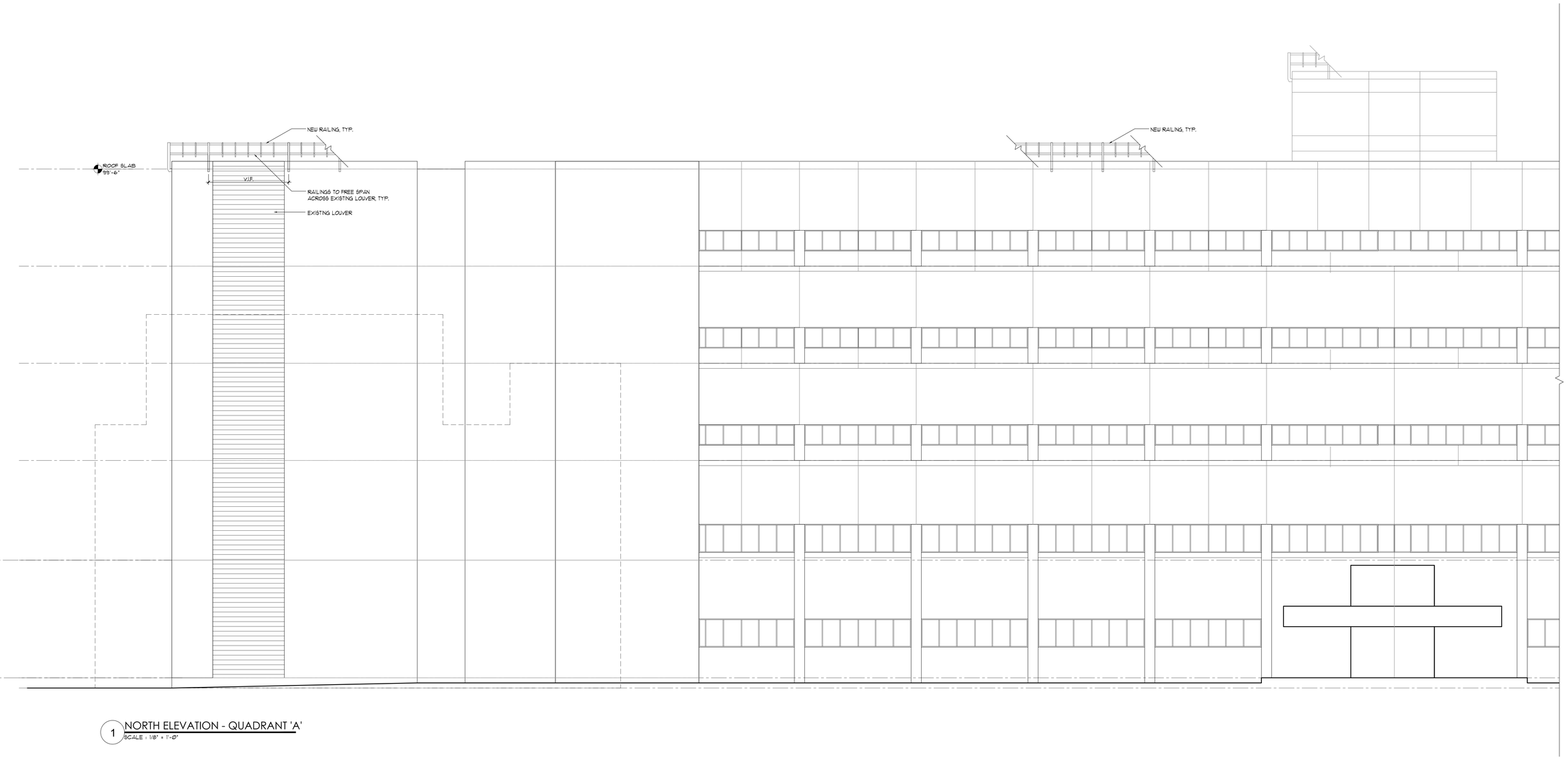

1 NORTH ELEVATION - QUADRANT 'A'
SCALE : 1/8" = 1'-0"

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Drawing Title: EXTERIOR ELEVATIONS
SCALE: 1/16"=1'-0"
Approved: Division Chief
Approved: Service Director

Project Title: BAY PINES VA HEALTHCARE SYSTEM
REPLACE ROOF BUILDING 100
Building Number: 100
Checked
Drawn
Location: VAMC Bay Pines
Bay Pines FL 33744

Date: 07.26.16
Project No. 516-15-106
DRAWING NO. A202
Dwg. 13 of 39

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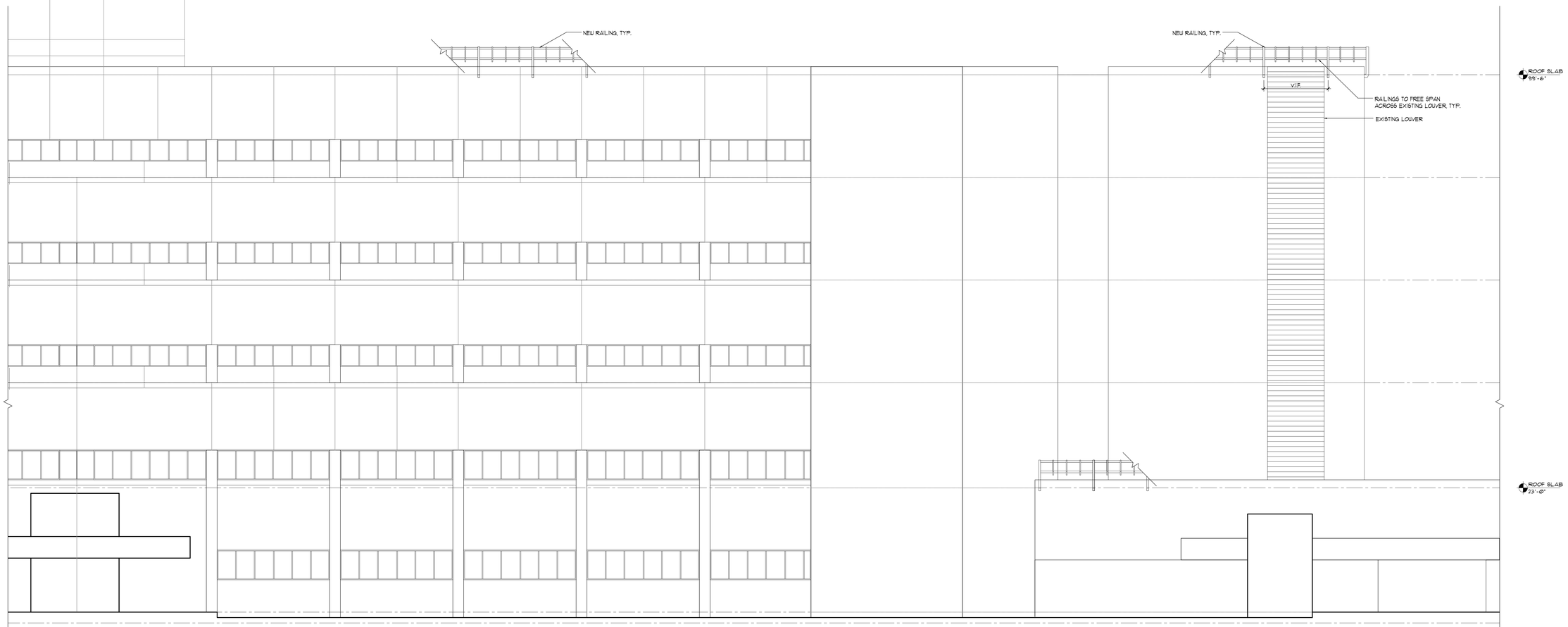
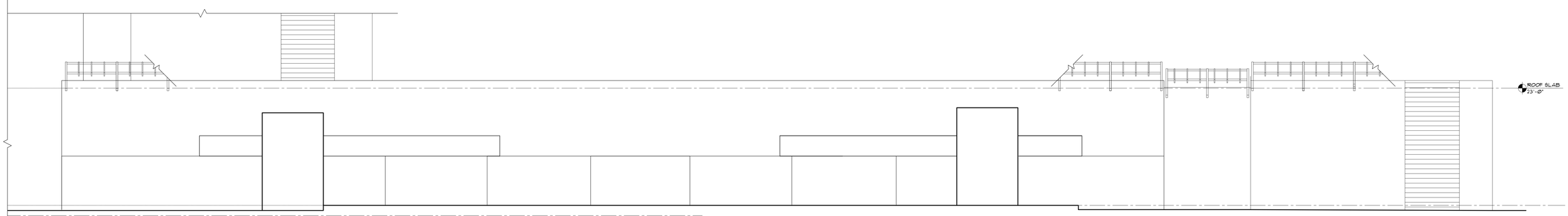


1 CONTINUED NORTH ELEVATION - QUADRANT 'A'
SCALE : 1/8" = 1'-0"



2 NORTH ELEVATION - QUADRANT 'B'
SCALE : 1/8" = 1'-0"

three inches = one foot
one and one-half inches = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighth inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot

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Drawing Title: EXTERIOR ELEVATIONS SCALE: 1/16"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744	Drawn	DRAWING NO.: A203 Dwg. 14 Of 39

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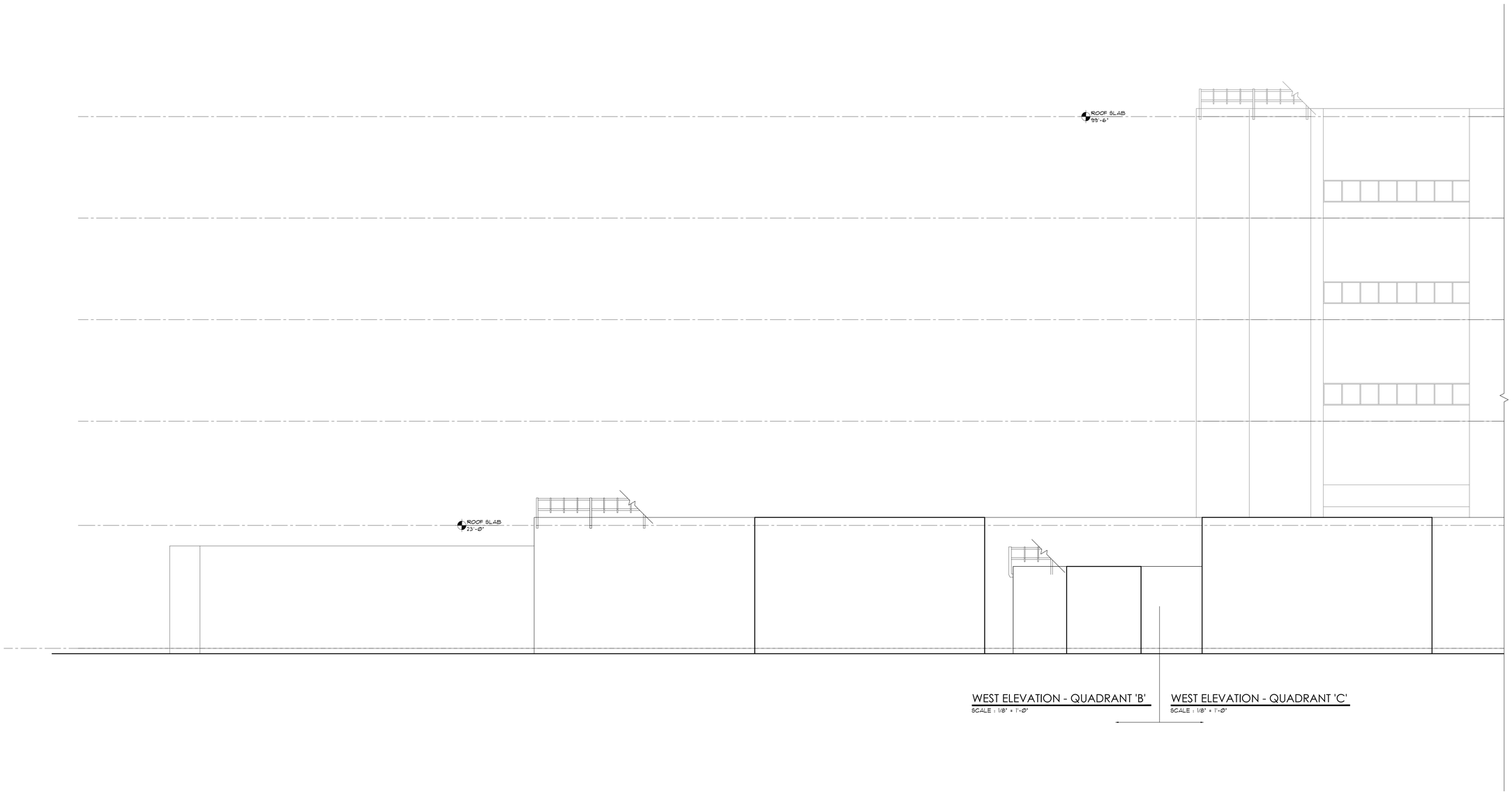

WEST ELEVATION - QUADRANT 'B'
SCALE : 1/8" = 1'-0"

WEST ELEVATION - QUADRANT 'C'
SCALE : 1/8" = 1'-0"

three inches = one foot
One and one-half inches = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighth inch = one foot
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Drawing Title
EXTERIOR ELEVATIONS
SCALE: 1/16"=1'-0"

Approved: Division Chief

Approved: Service Director

Project Title
BAY PINES VA HEALTHCARE SYSTEM
REPLACE ROOF BUILDING 100

Building Number: 100
Checked
Drawn
Location: VAMC Bay Pines
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Date: 07.26.16
Project No.: 516-15-106
DRAWING NO.: A204
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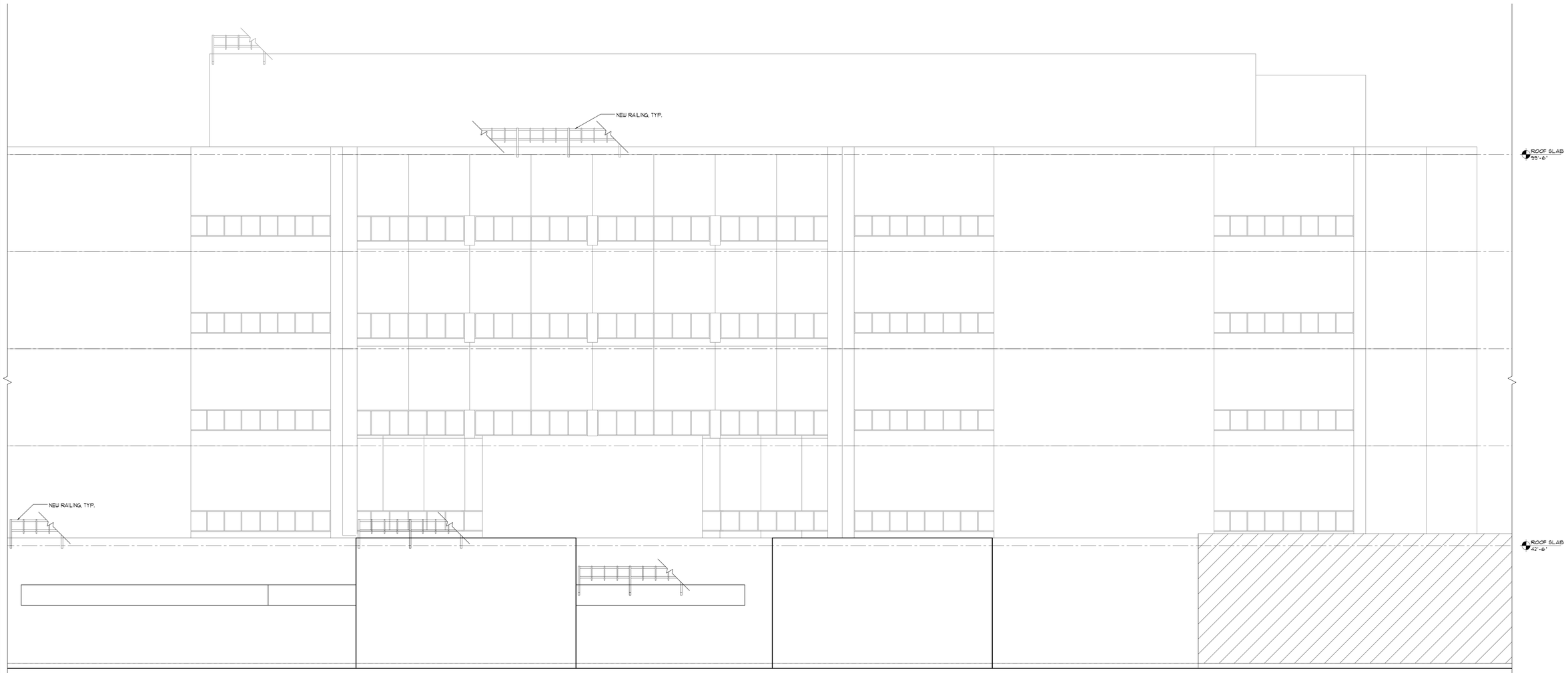

CONTINUED
WEST ELEVATION - QUADRANT 'C'
SCALE : 1/8" = 1'-0"

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Drawing Title: EXTERIOR ELEVATIONS
SCALE: 1/16"=1'-0"
Approved: Division Chief
Approved: Service Director

Project Title: BAY PINES VA HEALTHCARE SYSTEM
REPLACE ROOF BUILDING 100
Building Number: XXXXX
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Drawn
Location: VAMC Bay Pines
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Date: 07.26.16
Project No.: 516-15-106
DRAWING NO.: A205
Dwg. 16 of 39

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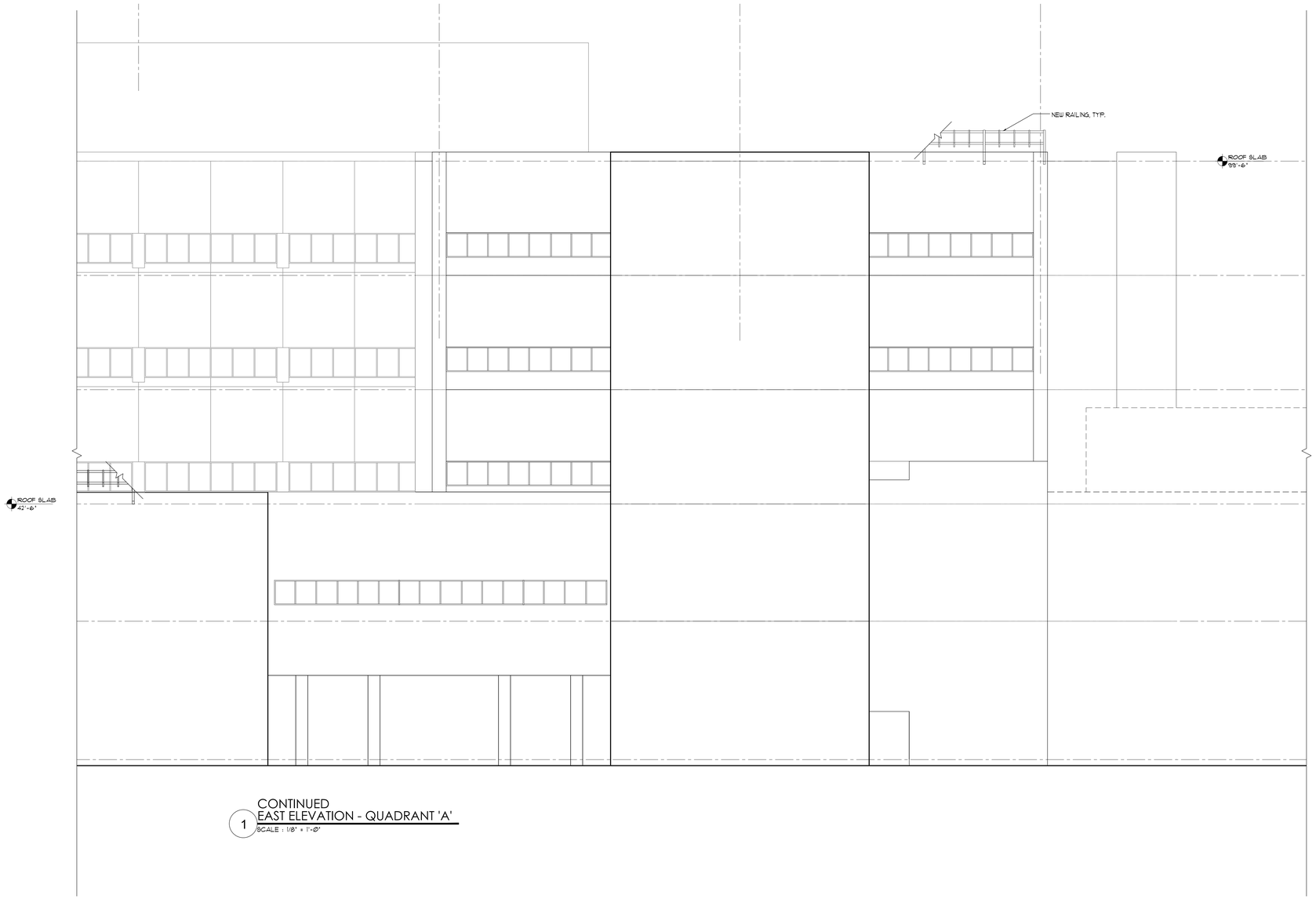

1 CONTINUED
EAST ELEVATION - QUADRANT 'A'
SCALE : 1/8" = 1'-0"

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Drawing Title: EXTERIOR ELEVATIONS SCALE: 1/16"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines Bay Pines FL 33744	Drawn	DRAWING NO.: A206 Dwg. 17 Of 39

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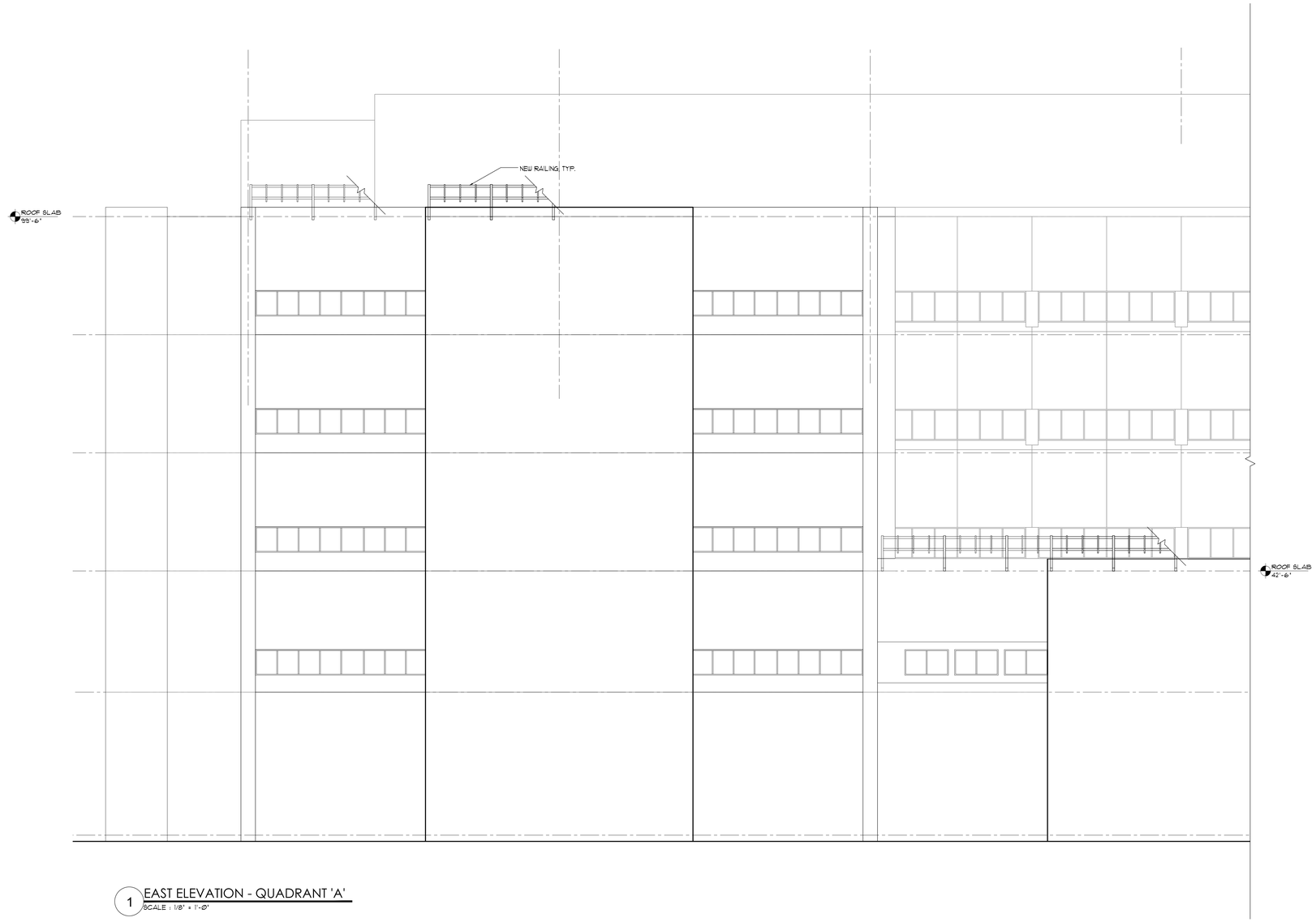

1 EAST ELEVATION - QUADRANT 'A'

SCALE : 1/8" = 1'-0"

three inches = one foot

one and one-half inches = one foot

one inch = one foot

three-quarters inch = one foot

one-half inch = one foot

three-eighth inch = one foot

one-quarter inch = one foot

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Drawing Title
EXTERIOR ELEVATIONS
SCALE: 1/16"=1'-0"

Approved: Division Chief

Approved: Service Director

Project Title
BAY PINES VA HEALTHCARE SYSTEM
REPLACE ROOF BUILDING 100

Building Number: 100

Checked

Drawn

Location: VAMC Bay Pines
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Date: 07.26.16

Project No.: 516-15-106

DRAWING NO.: A207

Dwg. 18 of 39

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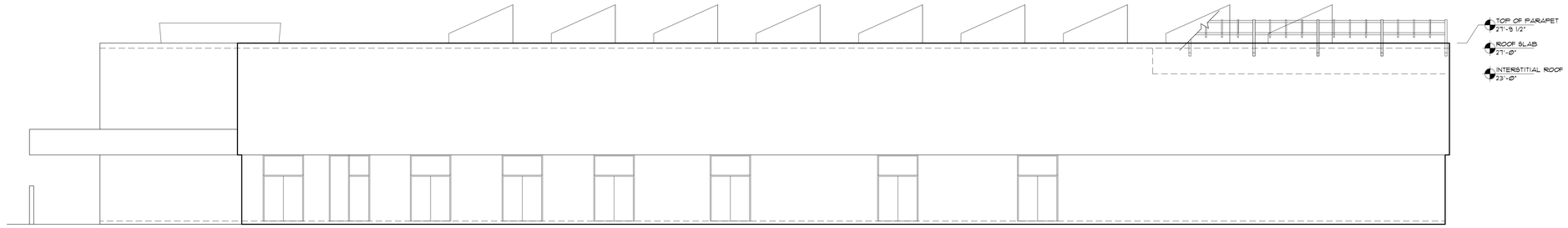
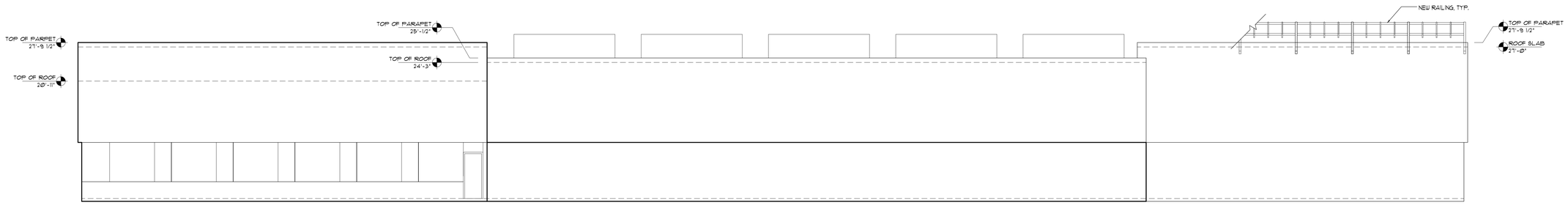


1 EAST ELEVATION - QUADRANT 'D'
SCALE : 1/8" = 1'-0"



2 SOUTH ELEVATION - QUADRANT 'D'
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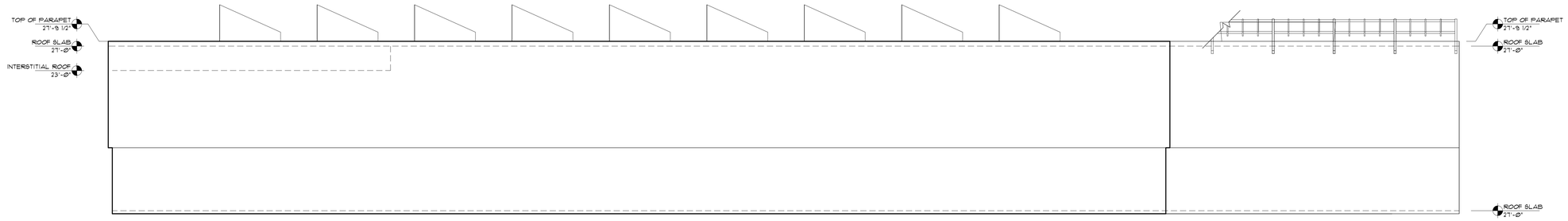

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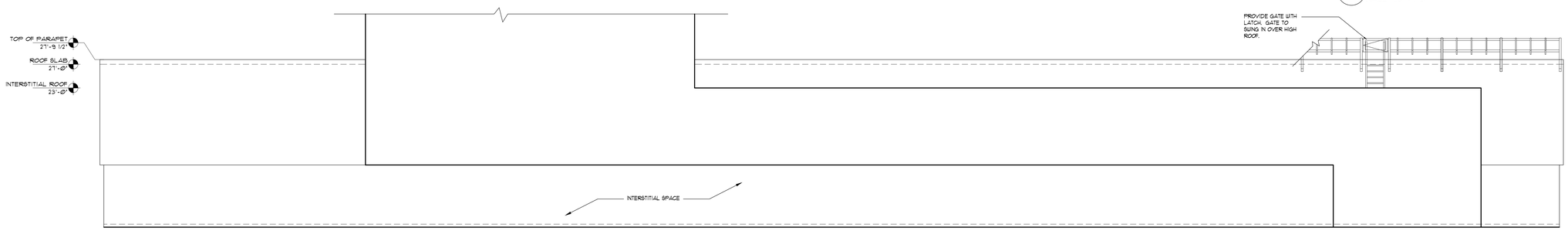
SCALE : 1/8" = 1'-0"



4 NORTH ELEVATION - QUADRANT 'D'
SCALE : 1/8" = 1'-0"

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Drawing Title: EXTERIOR ELEVATIONS QUADRANT D CENTRAL ENERGY PLANT ROOF	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
SCALE: 1/16"=1'-0"			Project No. 516-15-106
Approved: Division Chief	Building Number: 100	Checked / Drawn	DRAWING NO. A208
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		Dwg. 19 of 39

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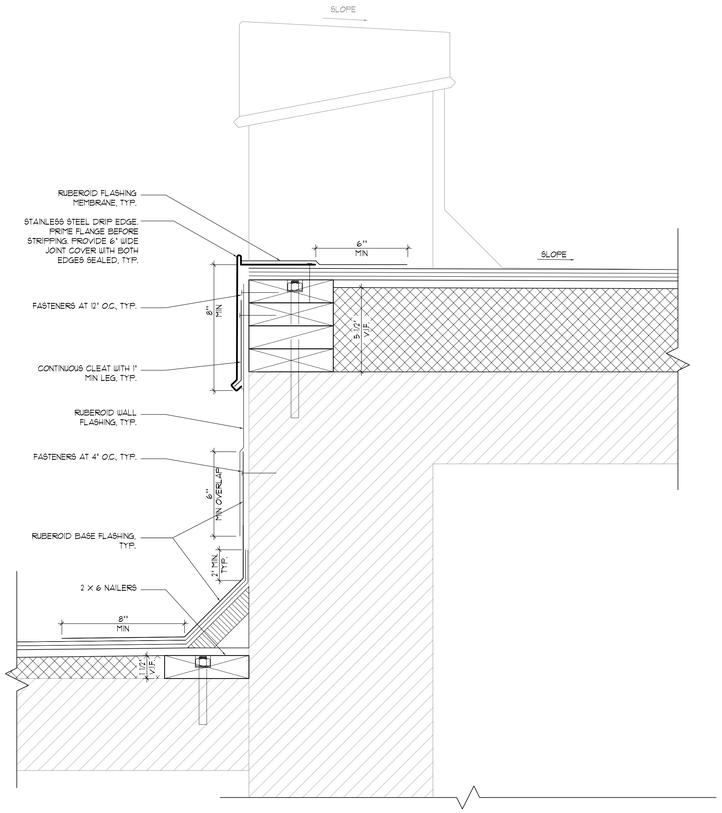
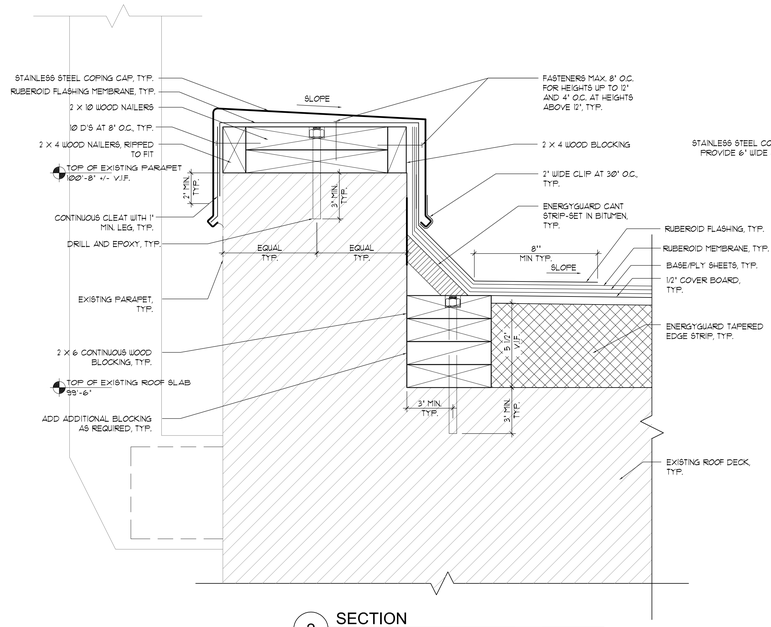
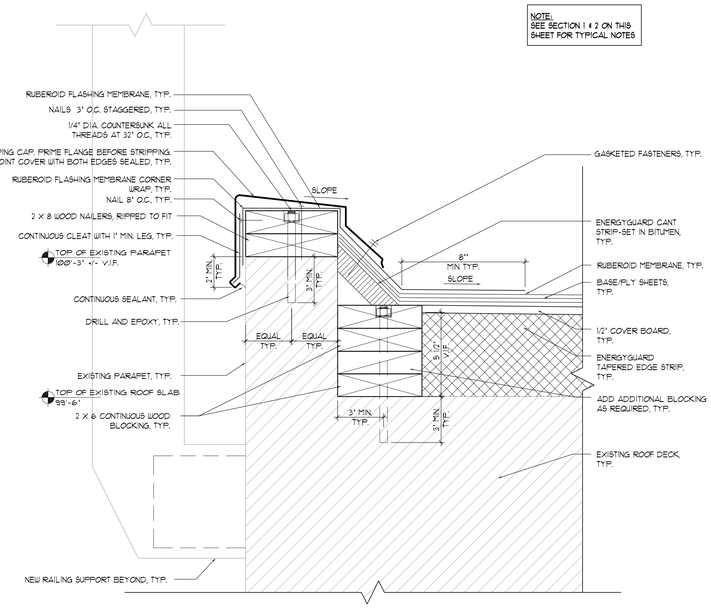


3 SECTION
SCALE: 3" = 1'-0"



2 SECTION
SCALE: 3" = 1'-0"

NOTE:
SEE SECTION 1 & 2 ON THIS SHEET FOR TYPICAL NOTES



1 SECTION
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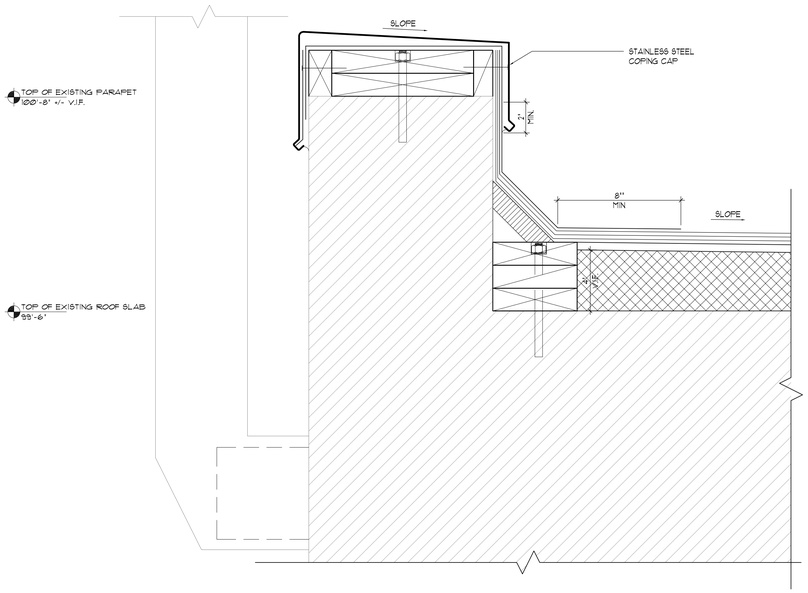
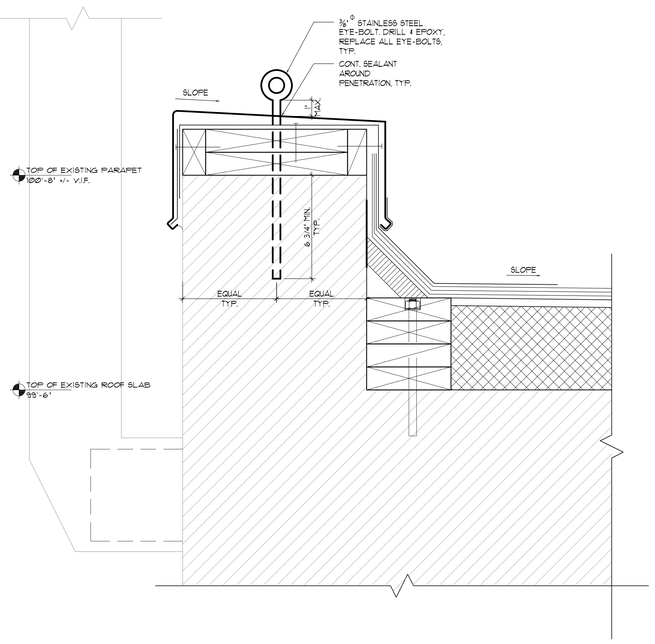


5 SECTION
SCALE: 3" = 1'-0"



4 SECTION
SCALE: 3" = 1'-0"

GENERAL NOTES

1. ALL WOOD IS TO BE FIRE RETARDANT. ANY CUT EDGE OF WOOD MUST HAVE FIRE RETARDANT TREATMENT PER MFG. INSTRUCTIONS TO MAINTAIN INTEGRITY OF FIRE RETARDANT STATUS. ALL FASTENERS, NUTS, WASHERS, ETC. SHALL BE STAINLESS STEEL, UON.
2. PROVIDE MEMBRANE BARRIER BETWEEN WOOD AND CONCRETE AS WELL AS BETWEEN METAL STUDS AND CONCRETE.
3. 4" MINIMUM FLASHING OVERLAPPING. PROVIDE SEALANT AT ALL EDGES.
4. USE GROUND PENETRATING RADAR ON THE ROOF SLABS TO LOCATE THE REBAR BEFORE DRILLING, CUTTING, ETC.. USE ALTERNATE HOLES/LOCATIONS IF CONFLICT EXISTS.
5. PROVIDE BASE INSULATION UNDER TAPERED INSULATION AS SPECIFIC CONDITION ALLOWS. MAINTAIN MINIMUM FLASHING DIMENSIONS AS NOTED TO ASSURE WEATHERTIGHT SEAL.
6. REFER TO SHEET METAL & AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA), LATEST EDITION AND ROOFING MANUFACTURES' INSTALLATION INSTRUCTIONS, LATEST EDITION FOR FLASHING INSTALLATION.
7. REFER TO SHEETS A102A, A102B, A102C AND A102D FOR GUARDRAILS LOCATIONS.

Revisions | Date

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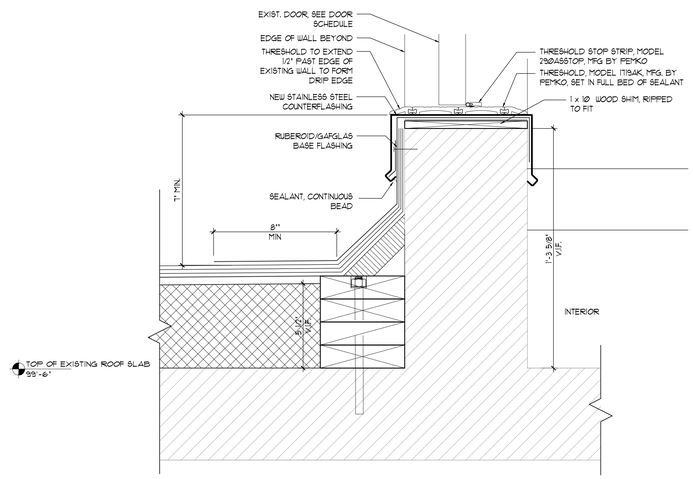
ZA 476 - CA 30240 - CGC 1522362

Drawing Title: ROOF DETAILS SCALE: 3"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked / Drawn	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines Bay Pines FL 33744		DRAWING NO.: A301 Dwg. 20 of 39

BAY PINES MEDICAL CENTER
Department of Veterans Affairs

NOTE:
SEE SECTIONS ON SHEET A301
FOR TYPICAL NOTES



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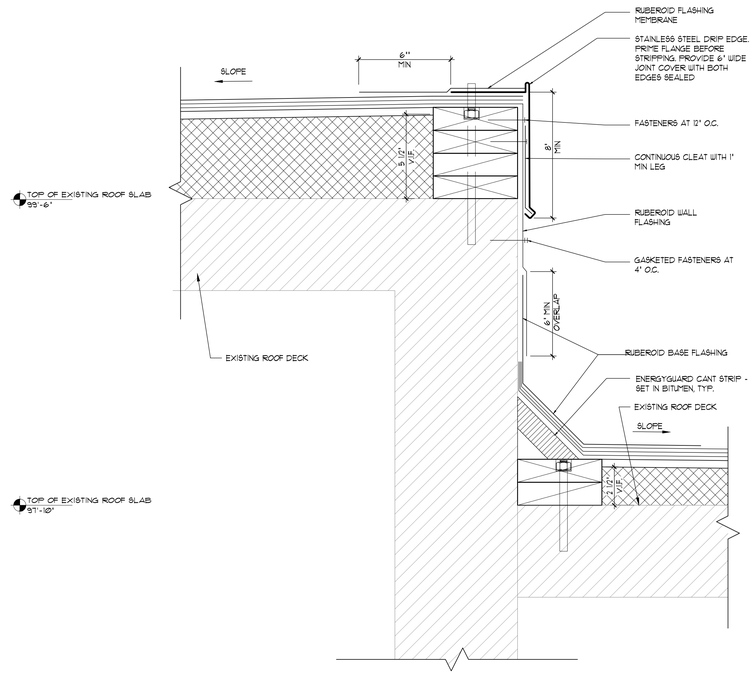
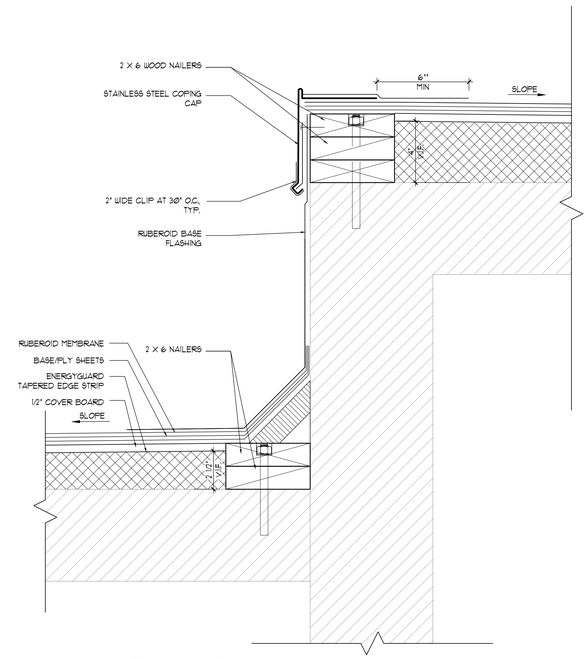
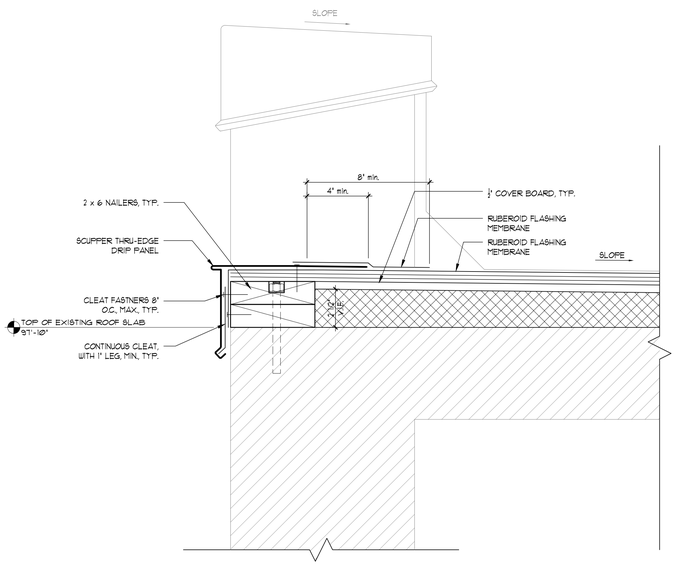




1 SECTION
SCALE: 3" = 1'-0"

SEE SECTION 1 & 2 ON SHEET A301 FOR TYPICAL NOTES



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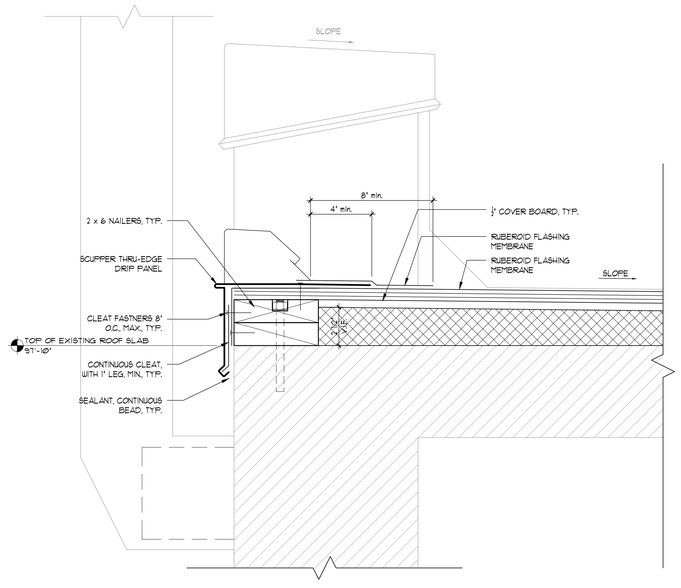

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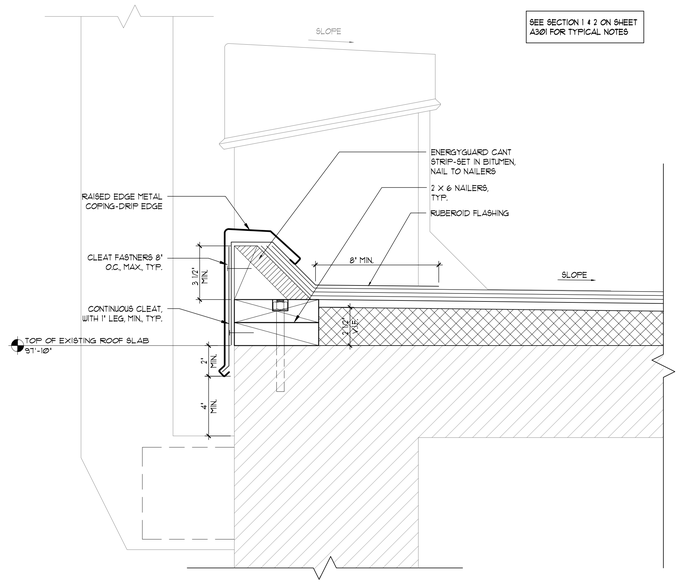

3 SECTION
SCALE: 3" = 1'-0"

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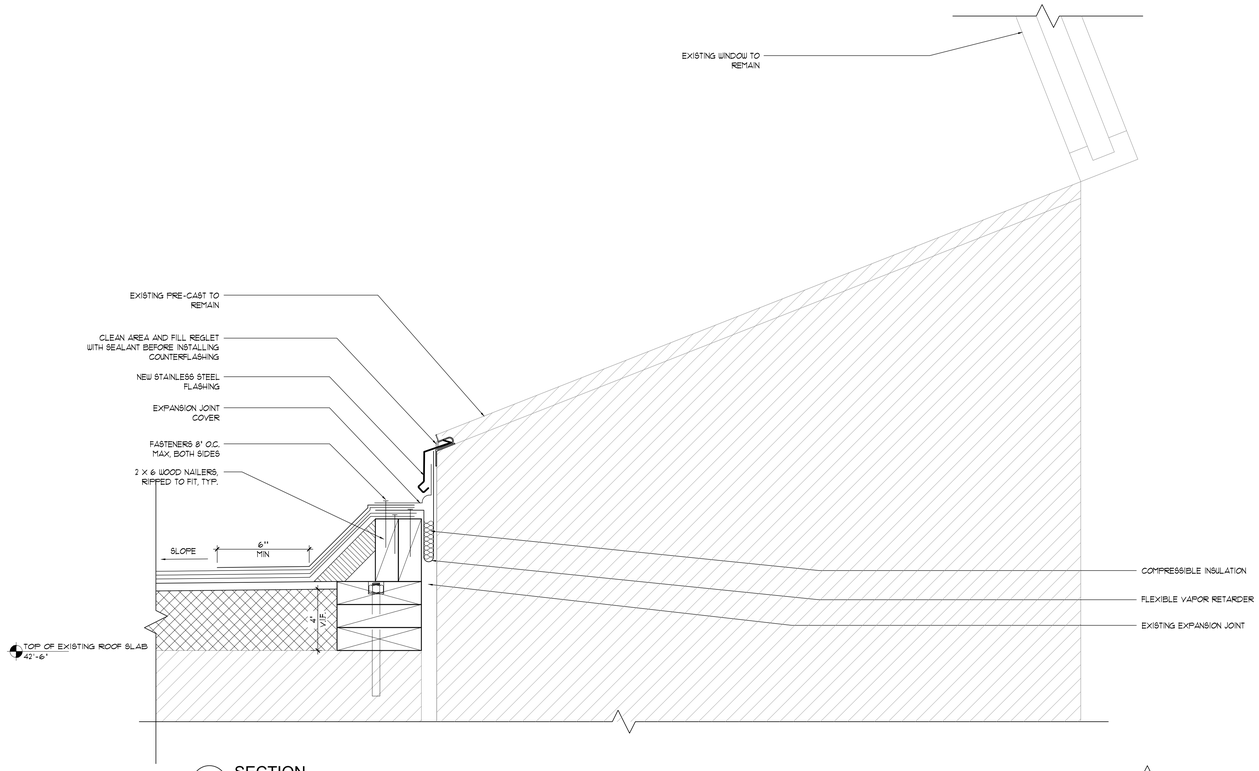
Drawing Title	ROOF DETAILS SCALE: 3"=1'-0"
Approved: Division Chief	
Approved: Service Director	
Project Title	BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100
Building Number	100
Checked	
Drawn	
Location	VAMC Bay Pines Bay Pines FL 33744
Date	07.26.16
Project No.	516-15-106
DRAWING NO.	A302
Dwg. 21 Of 39	

BAY PINES MEDICAL CENTER
Department of Veterans Affairs



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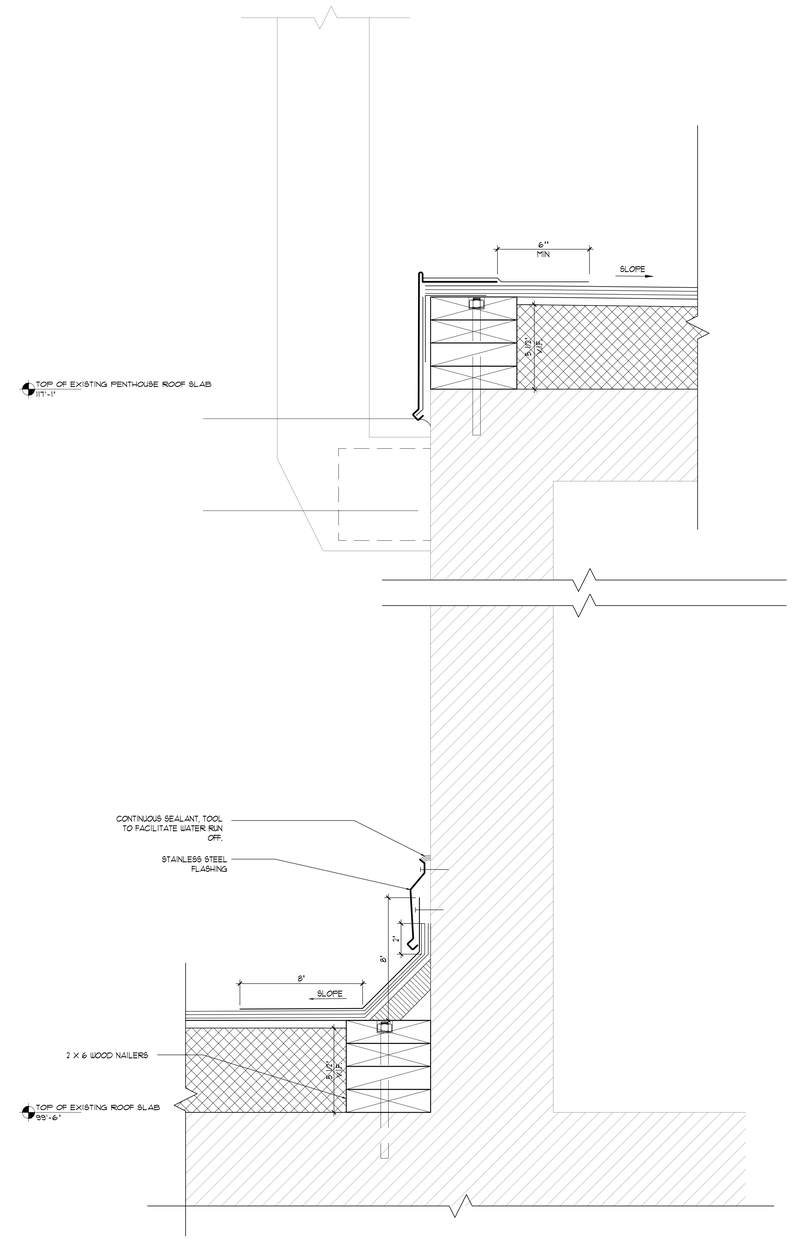

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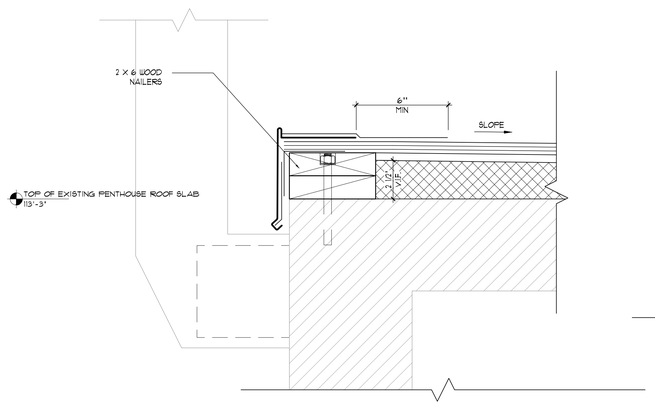

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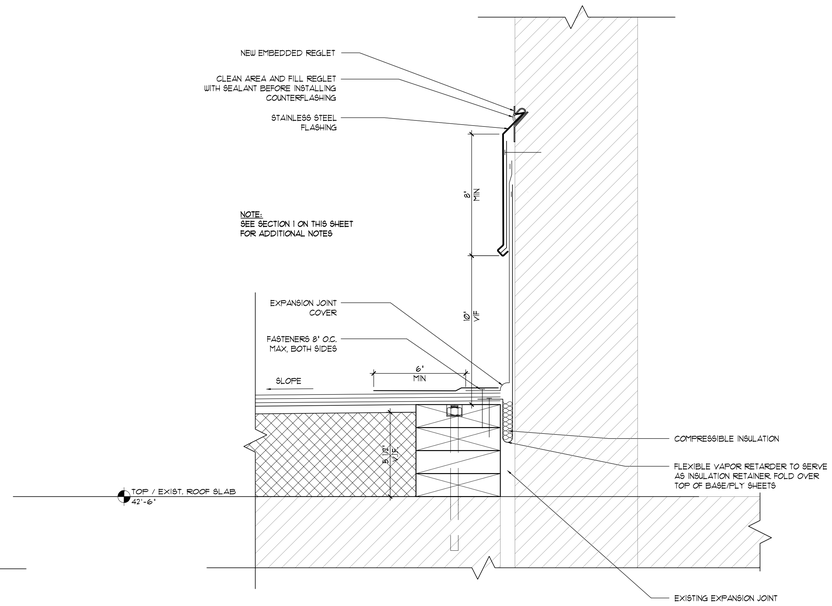

3 SECTION
SCALE: 3" = 1'-0"

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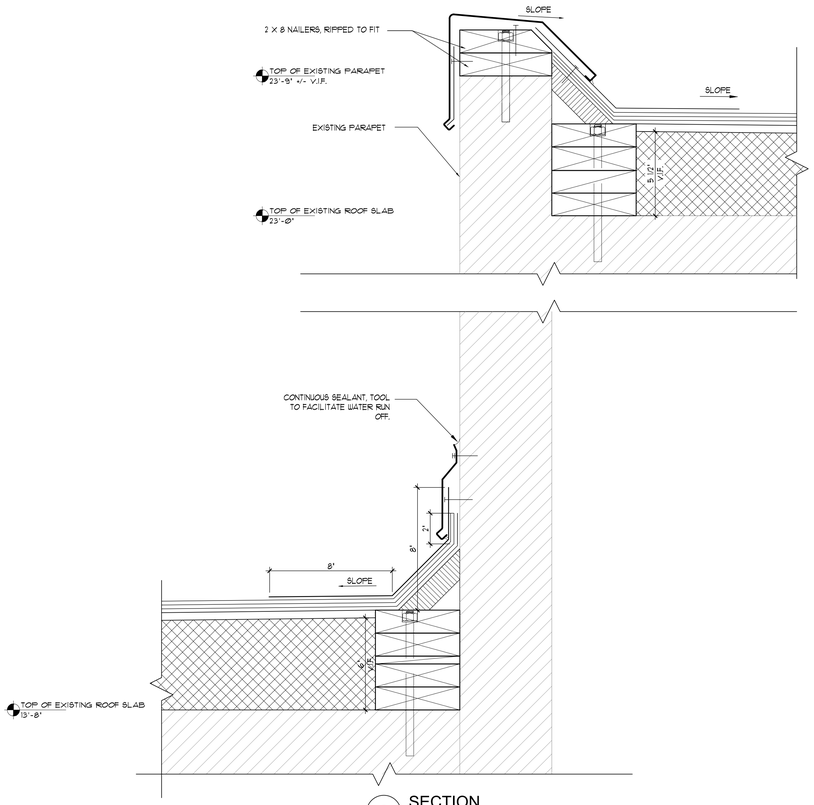
Drawing Title: ROOF DETAILS SCALE: 3"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked	Project No.: 516-15-106
		Drawn	DRAWING NO.: A303
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		Dwg. 22 Of 39

BAY PINES MEDICAL CENTER
Department of Veterans Affairs

NOTE:
SEE SECTIONS ON SHEET A301
FOR TYPICAL NOTES



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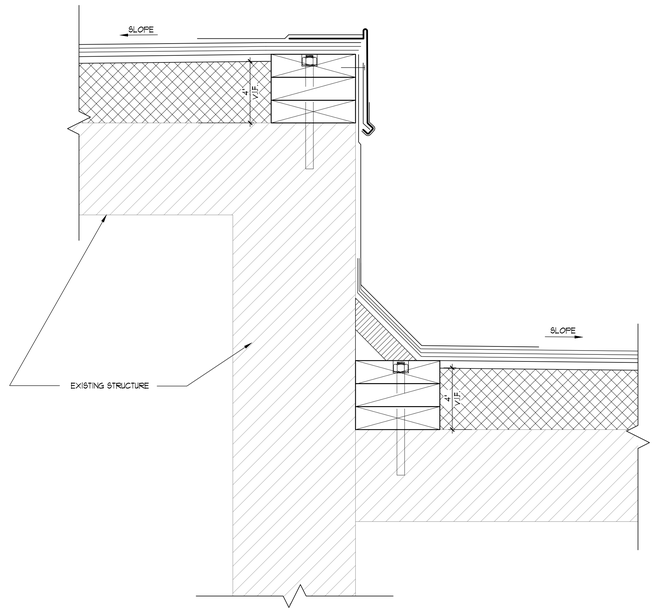

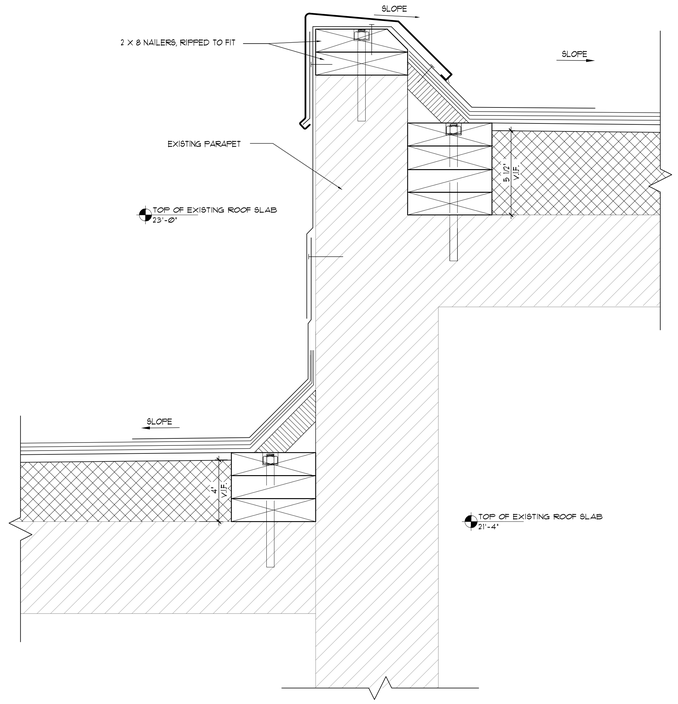

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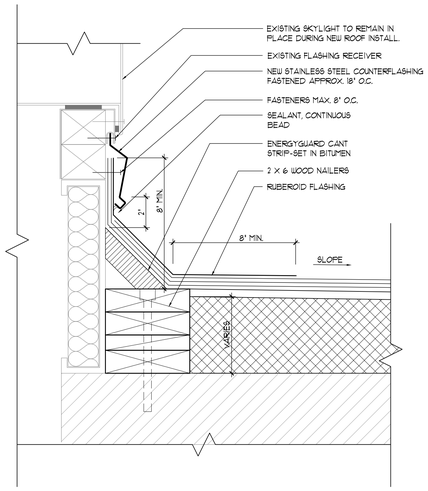

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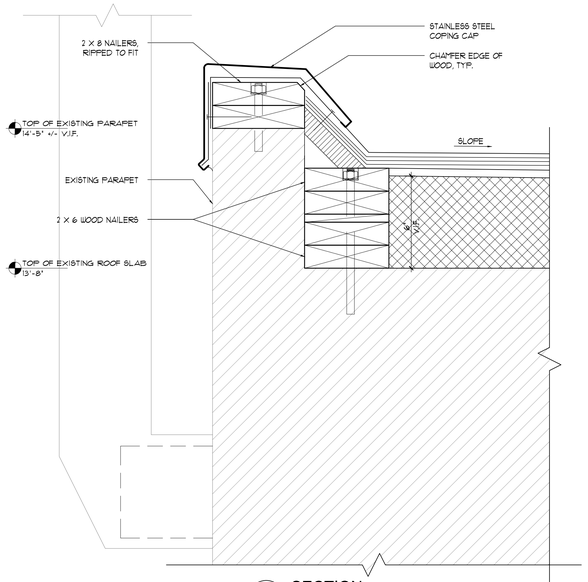

3 SECTION
SCALE: 3" = 1'-0"

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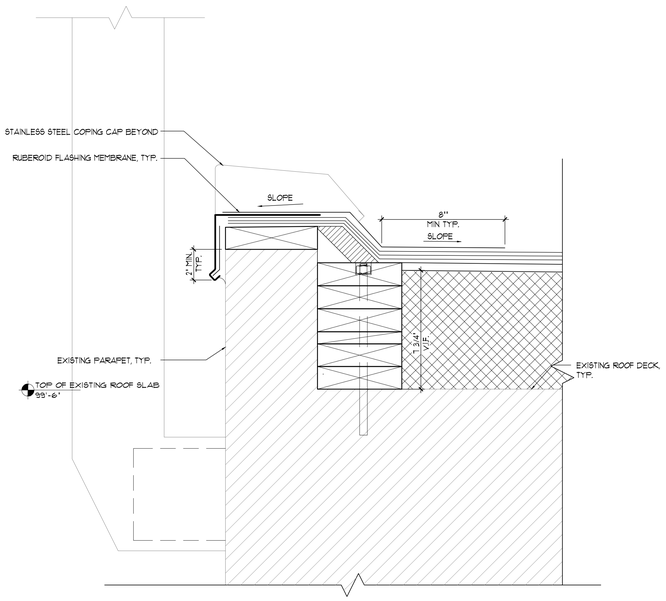
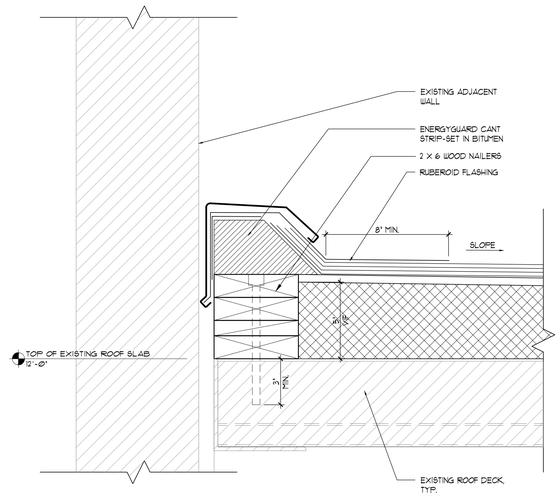
Drawing Title: ROOF DETAILS SCALE: 3"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
			Project No.: 516-15-106
Approved: Division Chief	Building Number: 100	Checked / Drawn	DRAWING NO. A304
Approved: Service Director	Location: VAMC Bay Pines Bay Pines FL 33744		Dwg. 23 Of 39

BAY PINES MEDICAL CENTER
Department of Veterans Affairs

NOTE:
SEE SECTIONS ON SHEET A301
FOR TYPICAL NOTES



3 SECTION
SCALE: 4



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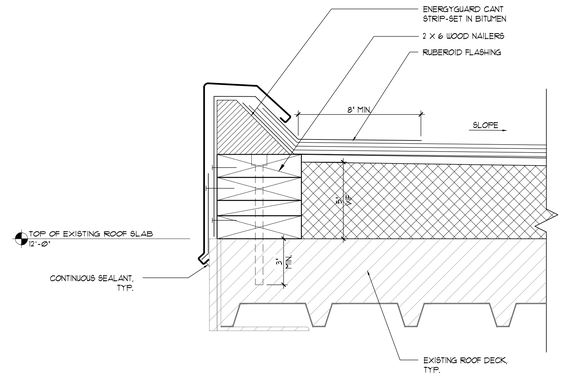

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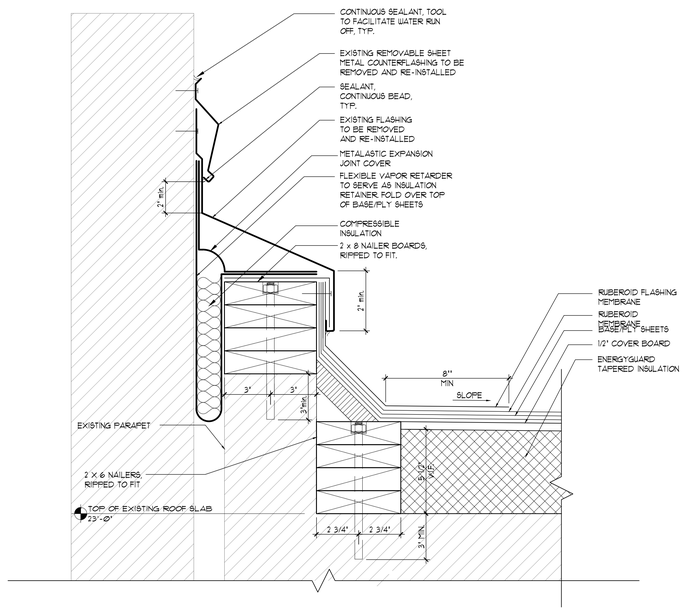

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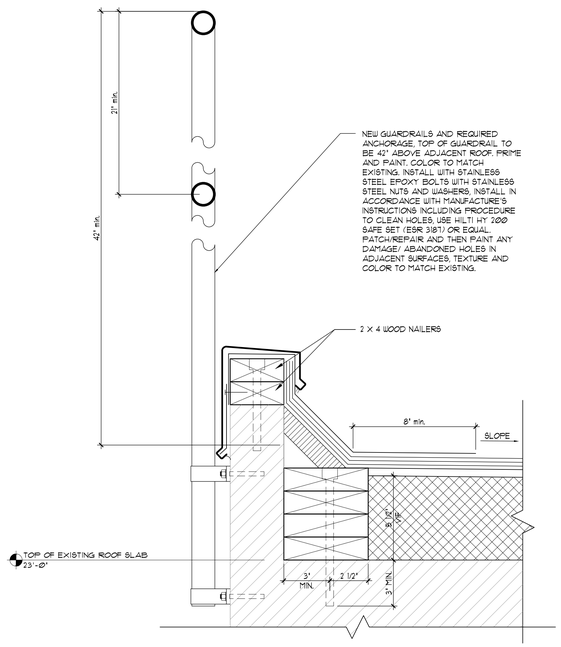

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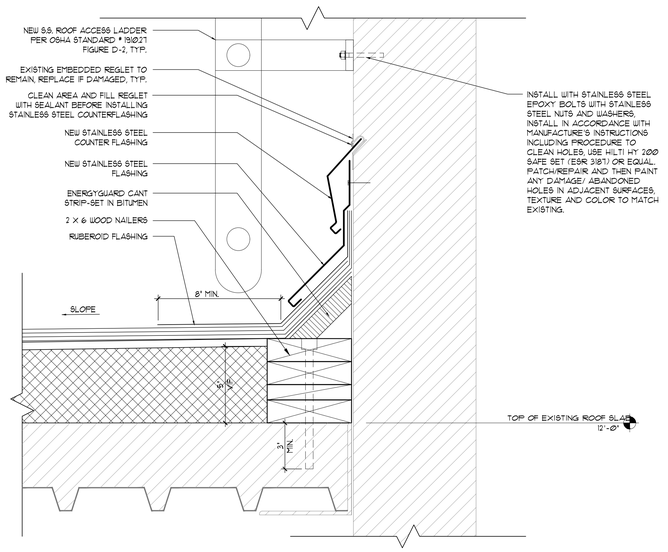

4 SECTION
SCALE: 6

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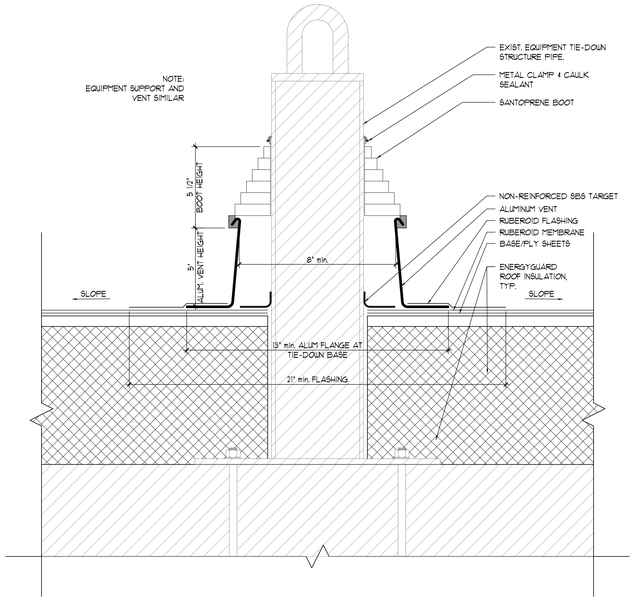
Drawing Title: ROOF DETAILS SCALE: 3"=1'-0"	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked / Drawn	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO.: A305 Dwg. 24 Of 39

BAY PINES MEDICAL CENTER
Department of Veterans Affairs



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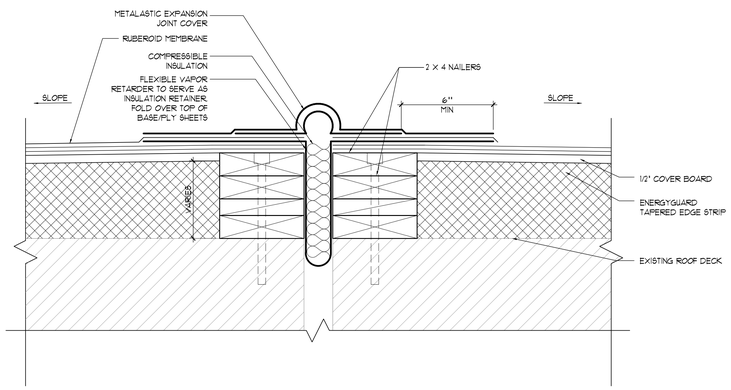

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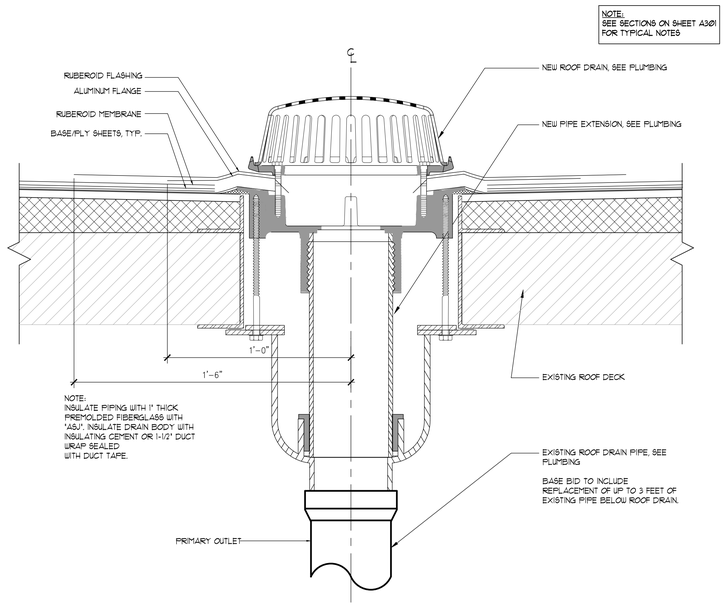

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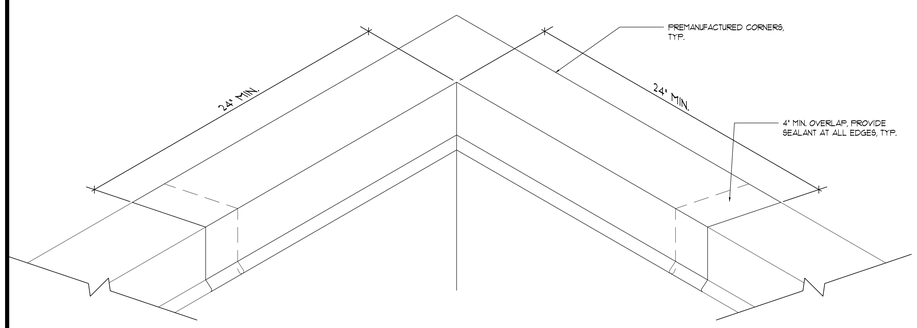

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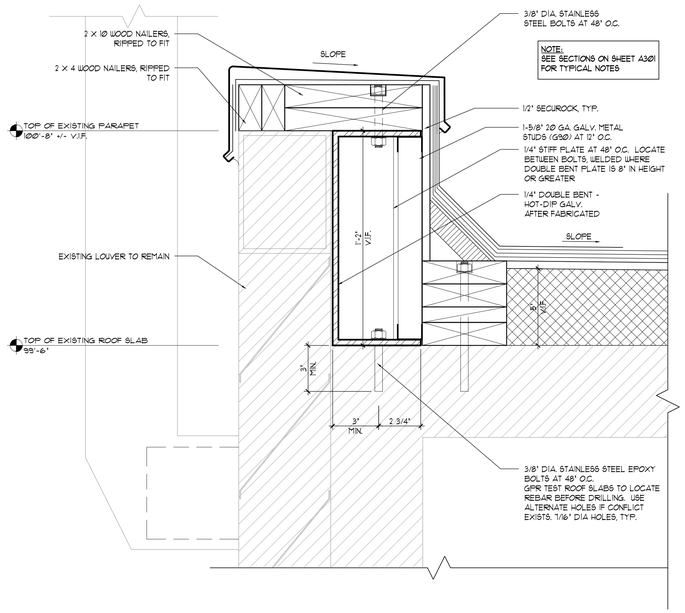

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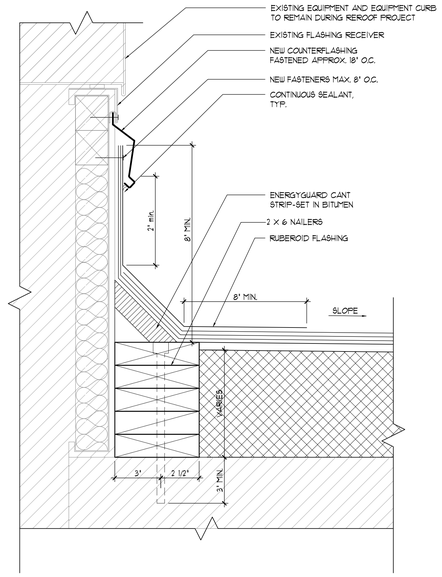

4 SECTION
SCALE: 3" = 1'-0"

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Drawing Title	ROOF DETAILS SCALE: 3"=1'-0"
Approved: Division Chief	
Approved: Service Director	
Project Title	BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100
Building Number	100
Checked	
Drawn	
Location	VAMC Bay Pines Bay Pines FL 33744
Date	07.26.16
Project No.	516-15-106
DRAWING NO.	A306
Dwg. 25 Of 39	

BAY PINES MEDICAL CENTER
Department of Veterans Affairs

GROSS ULTIMATE WIND LOADS MAIN ROOF ROOFING MATERIALS			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	12.8	12.8	12.8
SUCTION (psf)	-112.7	-176.8	-176.8

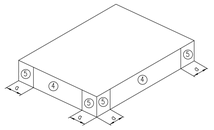
GROSS WIND LOADS OVERHANGS AND CANOPIES ROOFING MATERIALS			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	12.8	12.8	12.8
SUCTION (psf)	-168.5	-232.6	-232.6

NET ULTIMATE WIND LOADS MAIN ROOF JOISTS			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	12.8	12.8	12.8
SUCTION (psf)	-67.0	-116.9	-116.9

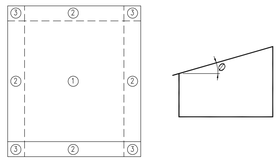
NET WIND LOADS OVERHANGS AND CANOPIES JOISTS			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	12.8	12.8	12.8
SUCTION (psf)	-122.8	-172.7	-172.7

COMPONENT AND CLADDING LOADING DIAGRAMS

1. a= 10'-0"
2. THIS BUILDING IS DESIGNED AS AN PARTLY ENCLOSED STRUCTURE. ALL EXTERIOR COMPONENTS (DOORS, WINDOWS, ETC.) MUST BE DESIGNED TO WITHSTAND THE WIND LOADINGS SPECIFIED FOR THE DESIGN OF COMPONENTS AND CLADDING IN THE TABLES. IN ADDITION, ALL AREAS OF EXTERIOR GLAZING MUST BE CERTIFIED FOR MISSILE IMPACT OR PROTECTED BY WIND-BORNE DEBRIS BY A SCREEN BARRIER.
3. TO CONVERT THE (ASCE 7-10) ULTIMATE WIND PRESSURES IN THE TABLES ABOVE TO (ASD) WIND PRESSURES, MULTIPLY EACH VALUE BY 0.6.



DOORS, WINDOWS AND WALLS



MONOSLOPE ROOF (0°≤ 3°)

ULTIMATE WIND PRESSURES (PSF) EXTERIOR DOORS, WINDOWS, WALLS				
EFFECTIVE AREA (ft^2)	ZONE 4		ZONE 5	
	PRESSURE	SUCTION	PRESSURE	SUCTION
1 TO 20	77.3	-77.0	77.3	-141.2
21 TO 50	77.3	-77.0	77.3	-140.5
51 TO 100	70.8	-72.7	70.8	-124.8
101 TO 150	66.5	-69.9	66.5	-112.7
151 TO 250	63.7	-67.7	63.7	-105.5
251 TO 500	60.1	-65.6	60.1	-96.3
501 + ABOVE	55.8	-62.7	55.8	-84.1

NOTES:
1. THE LOADS SHOWN REPRESENT ULTIMATE UNIFORM WINDWARD AND LEEWARD DIAPHRAGM LOADS IN THE PRIMARY X AND Y DIRECTIONS. PER ASCE 7-10, THESE LOADS REPRESENT LOAD CASE 1, SEE FIGURE 6-3 FOR ADDITIONAL REQUIRED LOAD CASES.

MISCELLANEOUS

1. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH, AS SHOWN IN THE STRUCTURAL DOCUMENTS.

2. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ENSURE THE SAFETY OF THE BUILDING UNTIL STRUCTURAL SYSTEM IS COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.

3. CONTRACTOR TO SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION.

4. APPLICABLE BUILDING CODE: 2014 FLORIDA BUILDING CODE.

5. GRAVITY DESIGN LOADS:

AREA	SUPERIMPOSED LIVE LOAD	TOTAL DEAD LOAD
ROOF	20 PSF	25 PSF

6. WIND DESIGN CRITERIA:
ULTIMATE BASIC WIND SPEED: VULT = 155 MPH (3 SECOND GUST)
EQUIVALENT NOMINAL BASIC WIND SPEED VASD = 120 MPH (3 SECOND GUST)
RISK CATEGORY = IV
EXPOSURE CATEGORY = D
ENCLOSED BUILDING INTERNAL PRESSURE COEFFICIENT, GCPI= +/-0.18
WIND BORNE DEBRIS REGION

7. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REFERENCED BUILDING CODE.

8. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.

9. CONTACT ENGINEER WITH ANY QUESTIONS OR DISCREPANCIES FOUND ON DRAWINGS.

10. SECTIONS AND DETAILS ARE REFERENCED IN TYPICAL LOCATIONS BUT ALSO APPLY TO ALL OTHER SIMILAR CONDITIONS.

11. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.

12. SUBMIT SHOP DRAWINGS AS REQUIRED HEREIN. ALLOW FOR TWO WEEKS REVIEW TIME AFTER RECEIPT OF SUBMITTALS BY THIS FIRM. ALL SUBMITTALS SHALL BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR AND SIGNED/SEALED BY THE DELEGATED ENGINEER, WHERE SPECIFIED HEREIN.

13. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW THEREOF.

14. ANY CHANGES TO THE STRUCTURE SHALL HAVE BEEN REVIEWED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO COMMENCING WORK ON ITEMS AFFECTED.

15. CONTRACTOR SHALL NOTIFY THIS OFFICE WHEN THE STRUCTURAL SYSTEM IS SUBSTANTIALLY COMPLETED, AND BEFORE SHEATHING, CEILINGS, OR ROOFING IS INSTALLED.

Revisions | Date

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Drawing Title: WIND CALCULATIONS CHART
SCALE: NTS
Approved: Division Chief
Approved: Service Director

Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100
Building Number: 100
Checked
Drawn
Location: VAMC Bay Pines, Bay Pines FL 33744

Date: 07.26.16
Project No. 516-15-106
DRAWING NO. S001
Dwg. 27 of 40

BAY PINES MEDICAL CENTER
Department of Veterans Affairs

GROSS ULTIMATE WIND LOADS MAIN ROOF ROOFING MATERIALS			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	12.8	12.8	12.8
SUCTION (psf)	-112.7	-176.8	-176.8

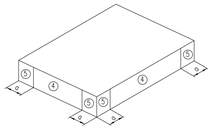
GROSS WIND LOADS OVERHANGS AND CANOPIES ROOFING MATERIALS			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	12.8	12.8	12.8
SUCTION (psf)	-168.5	-232.6	-232.6

NET ULTIMATE WIND LOADS MAIN ROOF JOISTS			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	12.8	12.8	12.8
SUCTION (psf)	-67.0	-116.9	-116.9

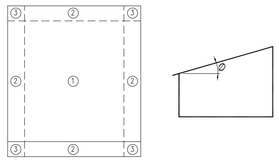
NET WIND LOADS OVERHANGS AND CANOPIES JOISTS			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	12.8	12.8	12.8
SUCTION (psf)	-122.8	-172.7	-172.7

COMPONENT AND CLADDING LOADING DIAGRAMS

1. a= 10'-0"
2. THIS BUILDING IS DESIGNED AS AN PARTLY ENCLOSED STRUCTURE. ALL EXTERIOR COMPONENTS (DOORS, WINDOWS, ETC.) MUST BE DESIGNED TO WITHSTAND THE WIND LOADINGS SPECIFIED FOR THE DESIGN OF COMPONENTS AND CLADDING IN THE TABLES. IN ADDITION, ALL AREAS OF EXTERIOR GLAZING MUST BE CERTIFIED FOR MISSILE IMPACT OR PROTECTED BY WIND-BORNE DEBRIS BY A SCREEN BARRIER.
3. TO CONVERT THE (ASCE 7-10) ULTIMATE WIND PRESSURES IN THE TABLES ABOVE TO (ASD) WIND PRESSURES, MULTIPLY EACH VALUE BY 0.6.



DOORS, WINDOWS AND WALLS



MONOSLOPE ROOF (0°≤ 3°)

ULTIMATE WIND PRESSURES (PSF) EXTERIOR DOORS, WINDOWS, WALLS				
EFFECTIVE AREA (ft^2)	ZONE 4		ZONE 5	
	PRESSURE	SUCTION	PRESSURE	SUCTION
1 TO 20	77.3	-77.0	77.3	-141.2
21 TO 50	77.3	-77.0	77.3	-140.5
51 TO 100	70.8	-72.7	70.8	-124.8
101 TO 150	66.5	-69.9	66.5	-112.7
151 TO 250	63.7	-67.7	63.7	-105.5
251 TO 500	60.1	-65.6	60.1	-96.3
501 + ABOVE	55.8	-62.7	55.8	-84.1

NOTES:
1. THE LOADS SHOWN REPRESENT ULTIMATE UNIFORM WINDWARD AND LEEWARD DIAPHRAGM LOADS IN THE PRIMARY X AND Y DIRECTIONS. PER ASCE 7-10, THESE LOADS REPRESENT LOAD CASE 1, SEE FIGURE 6-3 FOR ADDITIONAL REQUIRED LOAD CASES.

MISCELLANEOUS

1. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH, AS SHOWN IN THE STRUCTURAL DOCUMENTS.

2. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ENSURE THE SAFETY OF THE BUILDING UNTIL STRUCTURAL SYSTEM IS COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.

3. CONTRACTOR TO SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION.

4. APPLICABLE BUILDING CODE: 2014 FLORIDA BUILDING CODE.

5. GRAVITY DESIGN LOADS:

AREA	SUPERIMPOSED LIVE LOAD	TOTAL DEAD LOAD
ROOF	20 PSF	25 PSF

6. WIND DESIGN CRITERIA:
ULTIMATE BASIC WIND SPEED: VULT = 155 MPH (3 SECOND GUST)
EQUIVALENT NOMINAL BASIC WIND SPEED VASD = 120 MPH (3 SECOND GUST)
RISK CATEGORY = IV
EXPOSURE CATEGORY = D
ENCLOSED BUILDING INTERNAL PRESSURE COEFFICIENT, GCPI= +/-0.18
WIND BORNE DEBRIS REGION

7. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REFERENCED BUILDING CODE.

8. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.

9. CONTACT ENGINEER WITH ANY QUESTIONS OR DISCREPANCIES FOUND ON DRAWINGS.

10. SECTIONS AND DETAILS ARE REFERENCED IN TYPICAL LOCATIONS BUT ALSO APPLY TO ALL OTHER SIMILAR CONDITIONS.

11. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.

12. SUBMIT SHOP DRAWINGS AS REQUIRED HEREIN. ALLOW FOR TWO WEEKS REVIEW TIME AFTER RECEIPT OF SUBMITTALS BY THIS FIRM. ALL SUBMITTALS SHALL BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR AND SIGNED/SEALED BY THE DELEGATED ENGINEER, WHERE SPECIFIED HEREIN.

13. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW THEREOF.

14. ANY CHANGES TO THE STRUCTURE SHALL HAVE BEEN REVIEWED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO COMMENCING WORK ON ITEMS AFFECTED.

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SCALE: NTS
Approved: Division Chief
Approved: Service Director

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Dwg. 27 of 40

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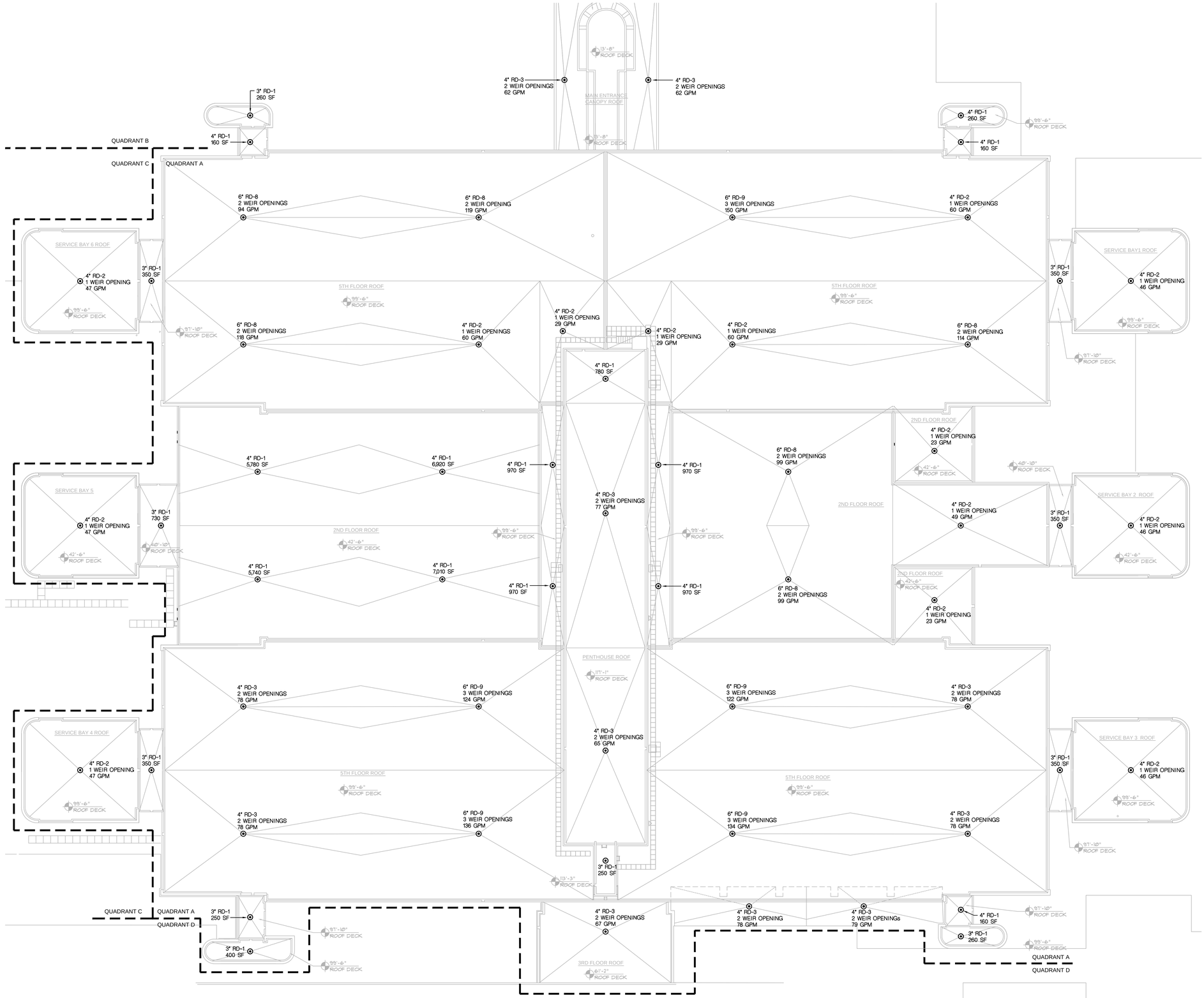
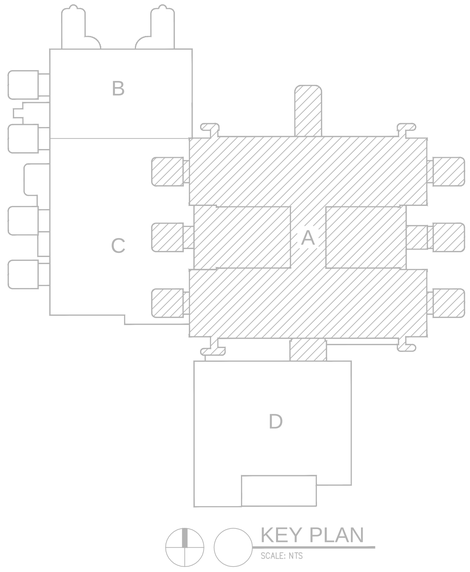
Department of Veterans Affairs





PLUMBING GENERAL NOTES

1. ALL WORK UNDER THIS DIVISION SHALL COMPLY WITH THE CODES AND STANDARDS AS LISTED ON THE PROJECT DRAWINGS AND TO OTHER PERTINENT CODES MADE A PART OF SUCH CODE BY REFERENCE.
2. PLANS INDICATE THE SCHEMATIC LAYOUT AND LOCATION OF THE PLUMBING SYSTEM COMPONENTS. UNLESS SPECIFIC DIMENSIONS ARE NOTED, THE ACTUAL LOCATION OF THESE COMPONENTS SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE WORK OF OTHER TRADES, THE USE OF MANUFACTURER'S SHOP DRAWINGS AND SIMILAR CERTIFIED DATA. PLANS SHALL NOT BE SCALED.
3. NO EXCLUSIONS FROM OR LIMITATIONS IN THE LANGUAGE USED IN THE CONTRACT DOCUMENTS SHALL BE INTERPRETED AS MEANING THAT EQUIPMENT, APPURTENANCES, AND/OR ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM ARE NOT TO BE PROVIDED AS REQUIRED. THE SEPARATE DIVISIONAL DRAWINGS AND SPECIFICATIONS DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE THE WORK WHICH IS INDICATED ON ANY OF THE DRAWINGS OR DIVISION OF THE SPECIFICATIONS. REVIEW AND COORDINATE THE SCOPE OF WORK WITH ALL SECTIONS TO ASSURE A COMPLETE AND FUNCTIONAL SYSTEM IS INSTALLED.
4. THE DIMENSIONS AND CONDITIONS SHOWN ON THE CONTRACT DOCUMENTS ARE BASED ON AVAILABLE EXISTING INFORMATION AND SITE INVESTIGATION. MAKE AN APPROPRIATE PRE-BID SITE INSPECTION IN ORDER TO ASCERTAIN EXISTING CONDITIONS AND INCLUDE IN THE BID THE COST OF ALL WORK RESULTING FROM EXISTING CONDITIONS, WHETHER OR NOT THIS WORK IS EXPLICITLY SHOWN ON THESE DRAWINGS. VERIFY EXISTING CONDITIONS AND DIMENSIONS TO ESTABLISH CLEARANCES. NOTIFY THE ARCHITECT OF ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS.
5. NOTIFY THE ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE OF ANY DAMAGE TO THE EXISTING INSTALLATION BEFORE PROCEEDING WITH WORK.
6. SUBMIT SHOP DRAWINGS OF ALL FIXTURE AND MATERIALS FOR REVIEW. INSTALL AND TEST ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. BIND SHOP DRAWINGS/CATALOG-CUTS IN THREE RING BINDERS WITH A TITLE SHEET AND IDENTIFICATION ON FRONT AND SIDE OF THE BINDER. SUBMIT DRAWINGS AND CUT SHEETS FOR ALL PRODUCTS ALL AT ONE TIME. INDEX ALL ITEMS TO THE PROJECT MANUAL OR DRAWINGS AS APPLICABLE. SHOP DRAWINGS THAT DEVIATE FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL LIST ALL DIFFERENCES IN A COVER LETTER ATTACHED TO TOP OF THE SUBMITTAL. ANY UNLISTED DEVIATIONS FOUND DURING REVIEW WILL RESULT IN THE REJECTION OF THE ENTIRE SUBMITTAL FOR ITEMS REVIEWED AND MARKED "REJECTED" OR "REVISE AND RESUBMIT", ONLY ONE ADDITIONAL SUBMITTAL WILL BE REVIEWED TO VERIFY PRODUCT COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOULD FURTHER SUBMITTALS BE REQUIRED FOR THE DESIGN PROFESSIONAL TO VERIFY THE SUBMITTAL WITH THE REQUIREMENTS OR THE CONTRACT DOCUMENTS.
7. PIPING AND OTHER ITEMS OF THE PLUMBING SYSTEM SHALL BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE AND NOT FROM THE CEILING, CEILING SUSPENSION SYSTEM, DUCTWORK, PIPING, OR ELECTRICAL SYSTEMS.
8. PRIOR TO ANY DEMOLITION, THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
9. THE CONTRACTOR SHALL INFORM THE OWNER (A MINIMUM OF ONE WEEK IN ADVANCE) OF ANY DISRUPTION OF SERVICES TO THE BUILDING AND SHALL NOT PROCEED TO WORK WITHOUT WRITTEN APPROVAL FROM THE OWNER. THE CONTRACTOR SHALL MAKE REPAIRS TO ANY SERVICES (ABOVE OR BELOW GROUND) DAMAGED BY WORK PERFORMED BY HIM.
10. INSULATE THE BOTTOM OF THE ROOF DRAINS WITH 1" THICK FIBERGLASS INSULATION.
11. STORM DRAINAGE SYSTEM WITHIN THE BUILDING SHALL BE TESTED BY WATER OR AIR IN ACCORDANCE WITH SECTION 312.2 OR 312.3 OF THE FLORIDA BUILDING CODE - PLUMBING, FIFTH EDITION (2014).

CODE CRITERIA

NOTE:
ALL CODES SHALL COMPLY WITH THE FLORIDA STATUES 69A-3.012 AND THE STATE FIRE MARSHALL'S RULE. THIS LIST IS NOT INCLUSIVE OF ALL CODES AND STANDARDS THAT MAY OR MAY NOT APPLY TO THIS PROJECT.

*FLORIDA BUILDING CODE (FBC), FIFTH EDITION (2014) - ALL SECTIONS
*FLORIDA FIRE PREVENTION CODE 2014

DRAWING INDEX

P102A	PLUMBING ROOF PLAN - QUADRANT "A" AND NOTES
P102B	PLUMBING ROOF PLAN - QUADRANT "B" AND ISOMETRIC DIAGRAM
P102C	PLUMBING ROOF PLAN - QUADRANT "C", LEGEND, NOTES, SYMBOLS, DETAILS, AND SCHEDULE

PLUMBING ROOF PLAN - QUADRANT 'A'

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

N

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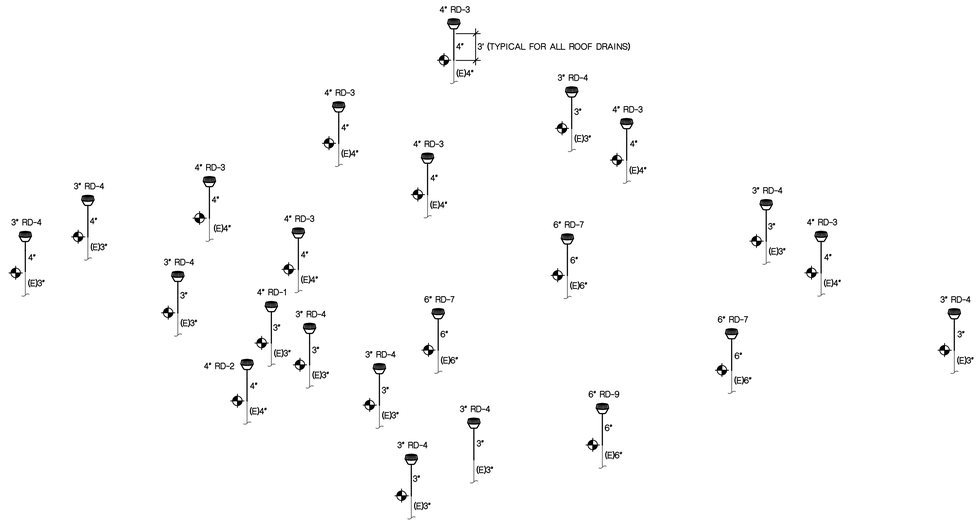
Drawing Title: PLUMBING ROOF PLAN - QUADRAINT "A" AND NOTES	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked: JWW / Drawn: ML	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO.: P102A — Dwg. 27 of 39

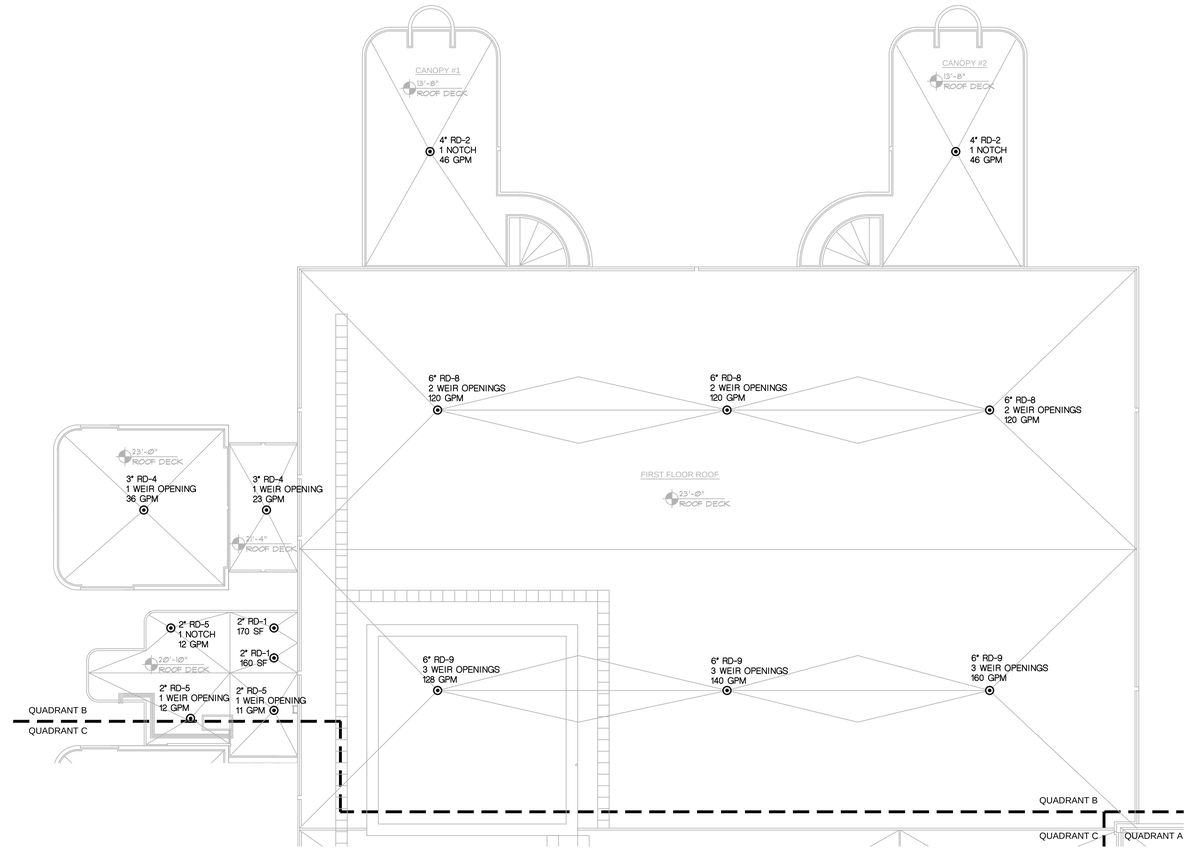
BAY PINES MEDICAL CENTER
Department of Veterans Affairs

Revisions	Date



PLUMBING ISOMETRIC DIAGRAM - QUADRANT 'C'

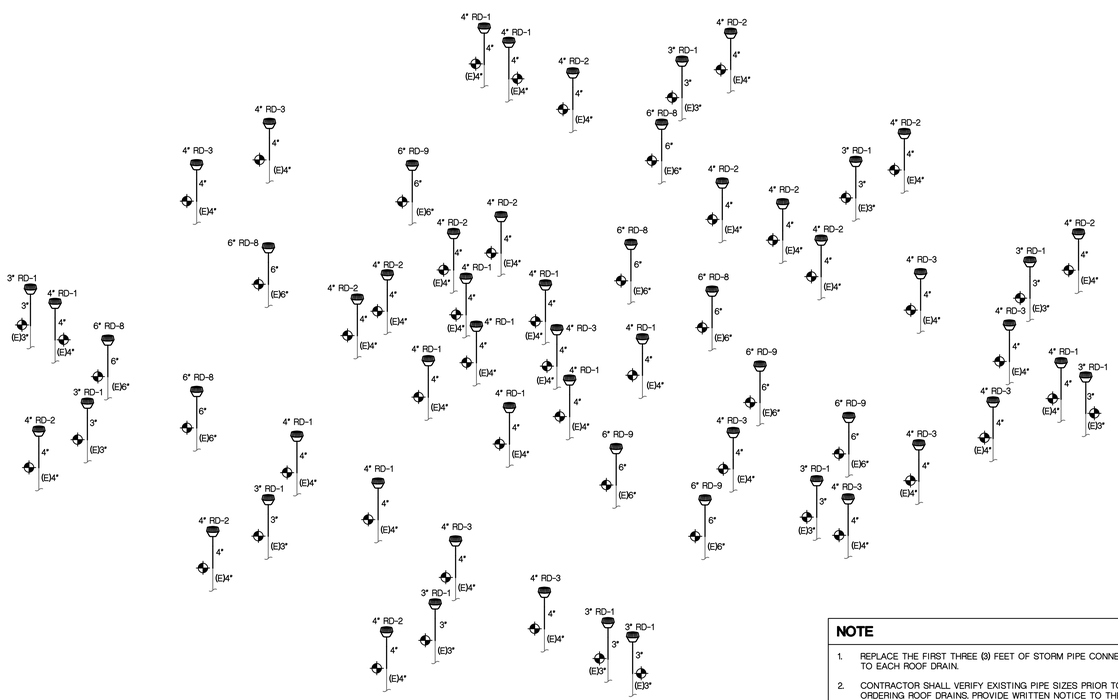
SCALE : NOT TO SCALE



PLUMBING ROOF PLAN - QUADRANT 'B'

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

N

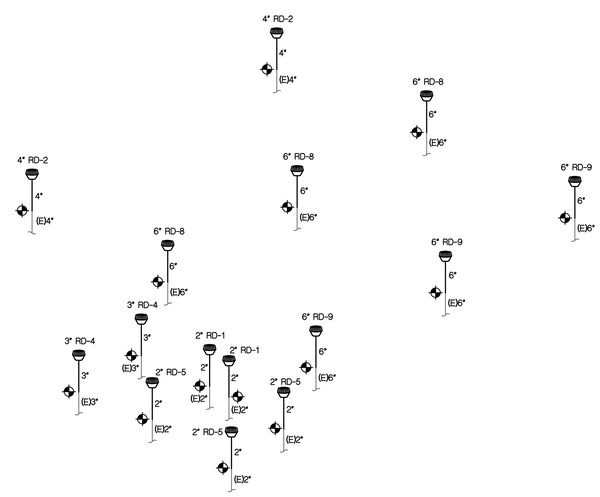


PLUMBING ISOMETRIC DIAGRAM - QUADRANT 'A'

SCALE : NOT TO SCALE

NOTE

1. REPLACE THE FIRST THREE (3) FEET OF STORM PIPE CONNECTING TO EACH ROOF DRAIN.
2. CONTRACTOR SHALL VERIFY EXISTING PIPE SIZES PRIOR TO ORDERING ROOF DRAINS. PROVIDE WRITTEN NOTICE TO THE ARCHITECT OF ANY DISCREPANCIES. COORDINATE EXISTING PIPING AS REQUIRED FOR NEW ROOF DRAIN CONNECTION. ADD OR CUT PIPE AS REQUIRED TO CONNECT EXISTING PIPING TO THE NEW ROOF DRAIN.



PLUMBING ISOMETRIC DIAGRAM - QUADRANT 'B'

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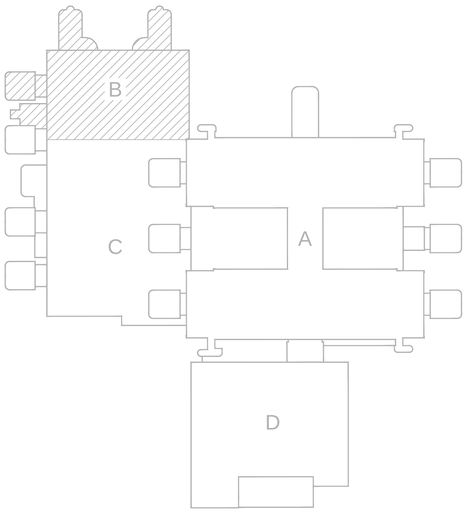

KEY PLAN

SCALE: NTS

Revisions | Date

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PROJECT NUMBER: 16048

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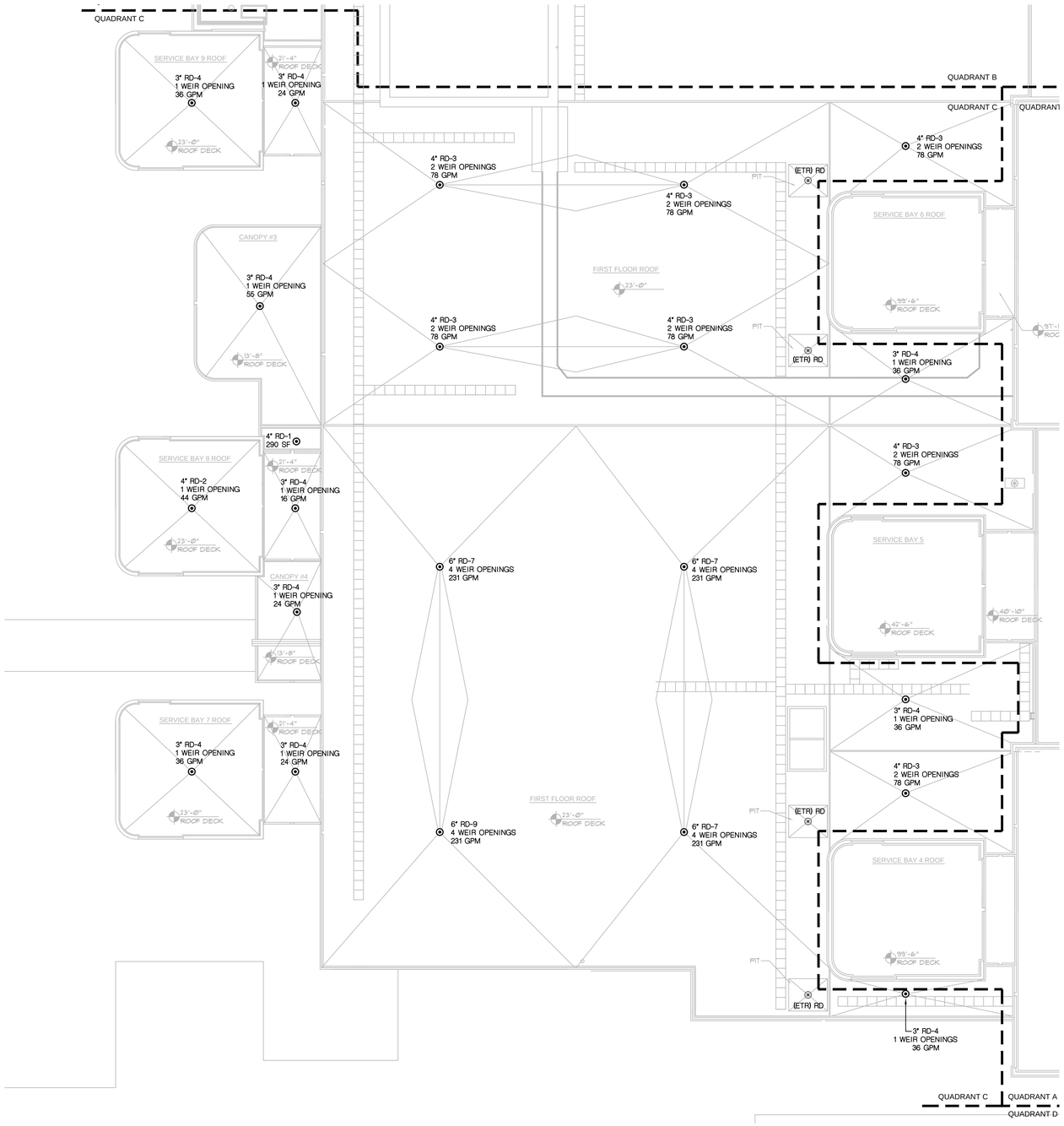
Drawing Title: PLUMBING ROOF PLAN - QUANDRANT "B" AND ISOMETRIC DIAGRAMS	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked: JWW / Drawn: ML	Project No. 516-15-106
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO. P102B

Dwg. 28 of 39

BAY PINES MEDICAL CENTER

Department of Veterans Affairs



PLUMBING ROOF PLAN - QUADRANT 'C'

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

N

PLUMBING LEGEND & SYMBOLS

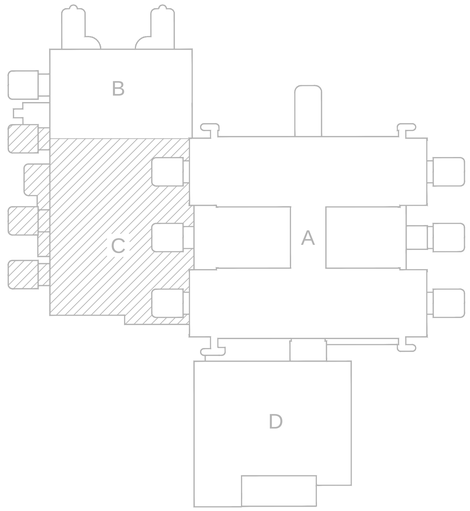
STORM	ST	
EXISTING STORM	ST	
ROOF DRAIN	RD	
EXISTING ROOF DRAIN	RD	
CONNECT TO EXISTING		
EXISTING TO REMAIN	(ETR)	

GENERAL ROOF PLAN NOTES

1. ALL EXISTING ROOF DRAINS SHALL BE REPLACED UNLESS NOTED OTHERWISE. NEW PRIMARY ROOF DRAINS SHALL CONNECT TO EXISTING STORM DRAIN SYSTEM. EXTEND/MODIFY EXISTING PIPING AS REQUIRED.
2. COORDINATE LOCATION OF ROOF PENETRATIONS WITH ALL OTHER TRADES.
3. QUADRANT 'D' IS TO RECEIVE NEW LIGHTNING PROTECTION AND GUARDRAIL ONLY. EXISTING ROOFING SYSTEM AND ROOF DRAINS TO REMAIN.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF DRAIN DETAILS.

PLUMBING SPECIALTIES SCHEDULE

MARK	DESCRIPTION	MODEL
RD-1	ROOF DRAIN DUCO CAST IRON BODY WITH ADJUSTABLE EXTENSION SLEEVE, REVERSIBLE COLLAR, COMBINED FLASHING CLAMP AND GRAVEL STOP, UNDERDECK CLAMP (-C), 15-1/4" DIAMETER, WITH GALVANIZED CAST IRON DOME (-G).	JAY R. SMITH 1015
RD-2	CONTROLLED FLOW ROOF DRAIN DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH ADJUSTABLE "FLOW RATE CONTROL" ASSEMBLY AND GALVANIZED CAST IRON DOME (-C1DG), EXTENSION (-E), UNDERDECK CLAMP (-C). ONE WEIR OPENING. 4" OUTLET.	JAY R. SMITH 1085 - WR1
RD-3	CONTROLLED FLOW ROOF DRAIN DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH ADJUSTABLE "FLOW RATE CONTROL" ASSEMBLY AND GALVANIZED CAST IRON DOME (-C1DG), EXTENSION (-E), UNDERDECK CLAMP (-C). TWO WEIR OPENINGS. 4" OUTLET.	JAY R. SMITH 1085 - WR2
RD-4	CONTROLLED FLOW ROOF DRAIN DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH ADJUSTABLE "FLOW RATE CONTROL" ASSEMBLY AND GALVANIZED CAST IRON DOME (-C1DG), EXTENSION (-E), UNDERDECK CLAMP (-C). ONE WEIR OPENING. 3" OUTLET.	JAY R. SMITH 1085 - WR1
RD-5	CONTROLLED FLOW ROOF DRAIN DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH ADJUSTABLE "FLOW RATE CONTROL" ASSEMBLY AND GALVANIZED CAST IRON DOME (-C1DG), EXTENSION (-E), UNDERDECK CLAMP (-C). ONE WEIR OPENING. 2" OUTLET.	JAY R. SMITH 1085 - WR1
RD-7	CONTROLLED FLOW ROOF DRAIN DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH ADJUSTABLE "FLOW RATE CONTROL" ASSEMBLY AND GALVANIZED CAST IRON DOME (-C1DG), EXTENSION (-E), UNDERDECK CLAMP (-C). FOUR WEIR OPENINGS. 6" OUTLET.	JAY R. SMITH 1085 - WR4
RD-8	CONTROLLED FLOW ROOF DRAIN DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH ADJUSTABLE "FLOW RATE CONTROL" ASSEMBLY AND GALVANIZED CAST IRON DOME (-C1DG), EXTENSION (-E), UNDERDECK CLAMP (-C). TWO WEIR OPENINGS. 6" OUTLET.	JAY R. SMITH 1085 - WR2
RD-9	CONTROLLED FLOW ROOF DRAIN DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH ADJUSTABLE "FLOW RATE CONTROL" ASSEMBLY AND GALVANIZED CAST IRON DOME (-C1DG), EXTENSION (-E), UNDERDECK CLAMP (-C). THREE WEIR OPENINGS. 6" OUTLET.	JAY R. SMITH 1085 - WR3



KEY PLAN
SCALE: NTS

Revisions | Date

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Drawing Title: PLUMBING ROOF PLAN - QUADRANT "C", LEGEND, NOTES, SYMBOLS, DETAILS, AND SCHEDULES

Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100

Date: 07.26.16

Project No.: 516-15-106

Approved: Division Chief

Approved: Service Director

Building Number: 100 | Checked: JWW | Drawn: ML

Location: VAMC Bay Pines, Bay Pines FL 33744

DRAWING NO.: P102C

Dwg. 29 of 39

BAY PINES MEDICAL CENTER

Department of Veterans Affairs

DEMOLITION GENERAL NOTES

1. THE CONTRACTOR SHALL REMOVE ALL LIGHTNING PROTECTION DEVICES ON THE ROOF THAT ARE SCHEDULED FOR DEMOLITION.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION THAT IS TO REMAIN.
3. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ANY ITEMS REMOVED DURING DEMOLITION.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CIRCUIT CONTINUITY TO ALL DEVICES AND EQUIPMENT THAT ARE TO REMAIN. THIS INCLUDES ANY EXTENSION OR RE-ROUTING OF EXISTING CIRCUITING AFFECTED BY DEMOLITION.
5. REMOVE ALL CONDUCTORS, RACEWAY, JUNCTION BOXES, SUPPORTS AND FASTENERS AS NECESSARY TO AVOID ANY CONFLICTS WITH THE NEW INSTALLATION.
6. EXISTING RACEWAY SYSTEMS MAY BE RE-USED FOR THE NEW WORK IF THEY ARE IN GOOD CONDITION AND ALLOW FOR CODE-COMPLIANT INSTALLATION.
7. RACEWAYS SHALL BE ABANDONED IN FLOOR AND WALLS ONLY. THE CONTRACTOR SHALL REMOVE ALL WIRING FROM ABANDONED CONDUITS. CUT OFF ABANDONED CONDUITS 1"BELOW THE FINISHED FLOOR AND GROUT FLUSH. ABANDONED CONDUIT SHALL BE CAPPED AT BOTH ENDS.
8. PROVIDE BLANK COVER PLATES (MATCH EXISTING FINISH) FOR ANY REMAINING OUTLET BOXES THAT ARE EMPTY OR ABANDONED.

SCOPE OF WORK

1. REMOVE ALL LIGHTNING PROTECTION EQUIPMENT AND CONDUCTORS AS SHOWN ON THE DRAWINGS, REPLACE WITH NEW LIGHTNING PROTECTION SYSTEM WITH UL MASTER LABEL.
2. ANALYZE EXISTING DOWN CONDUCTORS AND RACEWAY, REMOVE AND REPLACE WITH NEW AS REQUIRED.
3. ANY BARE DOWN CONDUCTORS AT GRADE LEVEL WILL NEED TO BE COVERED IF EXPOSED.
4. EXISTING NORMAL POWER SWITCHGEAR/DIESTRIBUTION BOARDS(USN-W, USN-E, NDP, USPA, USPB, USPC) ARE MISSING SURGE PROTECTION, PROVIDE NEW ERITECH TDX300S OR EQUAL ON EACH BUS (QUANTITY 8). ALL EQUIPMENT WITH A TIE BREAKER REQUIRE TWO SURGE PROTECTION UNITS, ONE ON EACH SIDE OF THE TIE BREAKER.
5. EXISTING EMERGENCY POWER SWITCHGEAR/DISTRIBUTION BOARDS(USE-W, USE-E, EDP) MAY HAVE SURGE PROTECTION ALREADY. REPLACE EXISTING WITH ERITECH TDX300S OR EQUAL OR PROVIDE NEW ERITECH TDX300S OR EQUAL ON EACH BUS (QUANTITY 5). ALL EQUIPMENT WITH A TIE BREAKER REQUIRE TWO SURGE PROTECTION UNITS, ONE ON EACH SIDE OF THE TIE BREAKER.
6. IN ORDER TO INSTALL SURGE PROTECTION ON MAIN ELECTRICAL EQUIPMENT, EACH PIECE OF ELECTRICAL EQUIPMENT WILL REQUIRE A TEMPORARY SHUT DOWN. CONTRACTOR SHALL COORDINATE WITH CONTRACTING OFFICER'S REPRESENTATIVE (COR) FOR EACH SHUT DOWN.

ELECTRICAL GENERAL NOTES

1. THESE PLANS ARE DIAGRAMMATIC AND ARE INTENDED TO CLARIFY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF THE VARIOUS SYSTEMS. PROVIDE ALL NECESSARY EQUIPMENT, ACCESSORIES, FITTINGS, TRANSITIONS, ETC. FOR A COMPLETE AND OPERATIONAL INSTALLATION AS PER THESE PLANS AND ANY SPECIFICATIONS. MODIFY EXISTING SYSTEMS AS NECESSARY TO CONNECT TO NEW WORK. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL READ AND UNDERSTAND THE ENTIRE SET OF CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO THE PLANS AND SPECIFICATIONS FOR ALL ARCHITECTURAL AND ENGINEERING DISCIPLINES. THIS WILL ENSURE THAT HE UNDERSTANDS THE FULL SCOPE OF WORK AND IS ABLE TO CONVEY THE REQUIRED MATERIALS AND METHODS OF INSTALLATION TO HIS ESTIMATORS, SUPPLIERS AND INSTALLERS.
3. THE CONTRACT DOCUMENTS INDICATE THE DESIGN INTENT USING AVAILABLE INFORMATION. THE CONTRACTOR SHALL ADVISE THE ARCHITECT/ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN OR IF CODE/SAFETY CONFLICTS EXIST.
4. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. CHANGES IN THE CONTRACT SUM AND CONTRACT TIME WILL NOT BE ALLOWED FOR FAILURE TO INVESTIGATE EXISTING FIELD CONDITIONS.
5. COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION IN ORDER TO AVOID CONFLICTS DURING CONSTRUCTION.
6. DO NOT SCALE FROM THESE DRAWINGS.
7. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ANY ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN CONSENT FROM THE ENGINEER AND OWNER.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS AS FOLLOWS:
   FLORIDA BUILDING CODE (FIFTH EDITION)
   NFPA 70 (2011)(NATIONAL ELECTRIC CODE)
   NFPA 780 (2014)
   UL 96 (2016)
   UL 96A (2014)
   UL 467 (2013)
   UL 1449 (2014)
   LATEST NFPA CODES AND STANDARDS
   ALL LOCAL AND STATE CODES AND REGULATIONS
9. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
10. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF FIRE-RATED PARTITIONS (WALLS, FLOORS OR CEILINGS) WITH AN APPROVED FIRESTOP SYSTEM RATED FOR THE APPLICATION. THE FIRESTOP SYSTEM SHALL BE UL-LISTED AND INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
11. ALL RACEWAY SYSTEMS SHALL HAVE A MAXIMUM OF (4) 90-DEGREE BENDS BETWEEN PULL BOXES.
12. ALL CONDUCTORS FOR LIGHTNING PROTECTION SHALL HAVE A RADIUS OF BEND NOT LESS THAN 8" AND AN ANGLE OF BEND NOT LESS THAN 90°.
13. ALL RACEWAYS SHALL BE CONCEALED U.O.N. MINIMUM CONDUIT SIZE SHALL BE ¾".
14. ANY EXPOSED RACEWAYS SHALL BE PAINTED TO MATCH THE ADJACENT CONSTRUCTION. ALL EXPOSED RACEWAY SHALL RUN STRAIGHT FROM ROOF DOWN TO GROUND AND FASTENED PER NEC REQUIREMENTS. SOME EXISTING RACEWAYS MAY NEED TO BE STRAIGHTENED OR REPLACED.

LIGHTNING PROTECTION

AL	CLASS I: ½" X 18" GENTLY TAPERED SOLID (AL) AIR TERMINAL
AL	CLASS II: ⅝" X 18" GENTLY TAPERED SOLID (AL) AIR TERMINAL
CU	CLASS I: ⅜" X 18" GENTLY TAPERED SOLID (CU) AIR TERMINAL
CU	CLASS II: ½" X 18" GENTLY TAPERED SOLID (CU) AIR TERMINAL
AL	CLASS I: 14AWG MAIN CONDUCTOR (AL)
AL	CLASS II: 13AWG MAIN CONDUCTOR (AL)
AL	CLASS I: 14AWG BOND CONDUCTOR (AL)
AL	CLASS II: 14AWG BOND CONDUCTOR (AL)
AL	CLASS I: 14AWG DOWN CONDUCTOR (AL)
AL AL	CLASS II: 13AWG DOWN CONDUCTOR (AL)
CU	CLASS I: 17AWG MAIN CONDUCTOR (CU)
CU	CLASS II: 15AWG MAIN CONDUCTOR (CU)
CU	CLASS I: 17AWG DOWN CONDUCTOR (CU)
CU CU	CLASS II: 15AWG DOWN CONDUCTOR (CU)
	⅝" X 10'-0" COPPERCLAD GROUND ROD
	⅝" X 10'-0" COPPERCLAD GROUND ROD IN TEST WELL
	CADWELD CONNECTION
	BOLTED MECHANICAL CONNECTION
	ALUMINUM TO COPPER THRU ROOF CONNECTOR
	ALUMINUM THRU ROOF CONNECTOR

ABBREVIATIONS

A, AMP	AMPERE
AC	ALTERNATING CURRENT
AF	AMP FRAME OR AMP FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AMW	ABOVE MILL WORK
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BG	BELOW GRADE
BDC	BELOW DROP CEILING
CND	CONDUIT
CB	CIRCUIT BREAKER
cd	CANDELA
CKT	CIRCUIT
CLG	CEILING
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DECIBEL
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DP	DOUBLE POLE
DT	DOUBLE THROW
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FC	FOOTCANDLE
FLA	FULL LOAD AMPS
FO	FIBER OPTIC
FVR	FULL VOLTAGE, REVERSING
FVNR	FULL VOLTAGE, NON-REVERSING
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GRA	GENERATOR REMOTE ANNUNCIATOR
HD	HAND DRYER
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
IDF	INTERMEDIATE DISTRIBUTION FRAME
JB	JUNCTION BOX
KP	KEYPAD
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LV	LOW VOLTAGE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MH	MANHOLE, METAL HALIDE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OCPD	OVERCURRENT PROTECTION DEVICE
OS	OCCUPANCY SENSOR
PB	PULL BOX, PUSH BUTTON
PC	PHOTOCELL
PH	PHASE
PNL	PANEL
PP	PATCH PANEL
(R)	REMOVE
(RL)	RELOCATE
REC	RECESSED
REF	REFRIGERATOR
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
SPD	SURGE PROTECTION DEVICE
ST	SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TL	TWISTLOCK
TS	TIME SWITCH (TIME CLOCK)
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WG	WIREGUARD
WL	WET LOCATION
WP	WEATHER PROOF
XP	EXPLOSION PROOF
XFMR	TRANSFORMER

Revisions | Date

VRG SERVICES, LLC
SERVICE DISABLED VETERAN OWNED BUSINESS
4902 113th Avenue North
Clearwater, Florida 33760
813.999.0330
VRG SERVICES
ZA 416 - CA 30240 - CGC 1522362

Drawing Title: ELECTRICAL LEGEND AND GENERAL NOTES

Approved: Division Chief

Approved: Service Director

Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100

Building Number: 100 | Checked: GCL | Drawn: GCL

Location: VAMC Bay Pines, Bay Pines FL 33744

Date: 07.26.16

Project No.: 516-15-106

DRAWING NO.: E001

Dwg. 30 of 39

BAY PINES MEDICAL CENTER

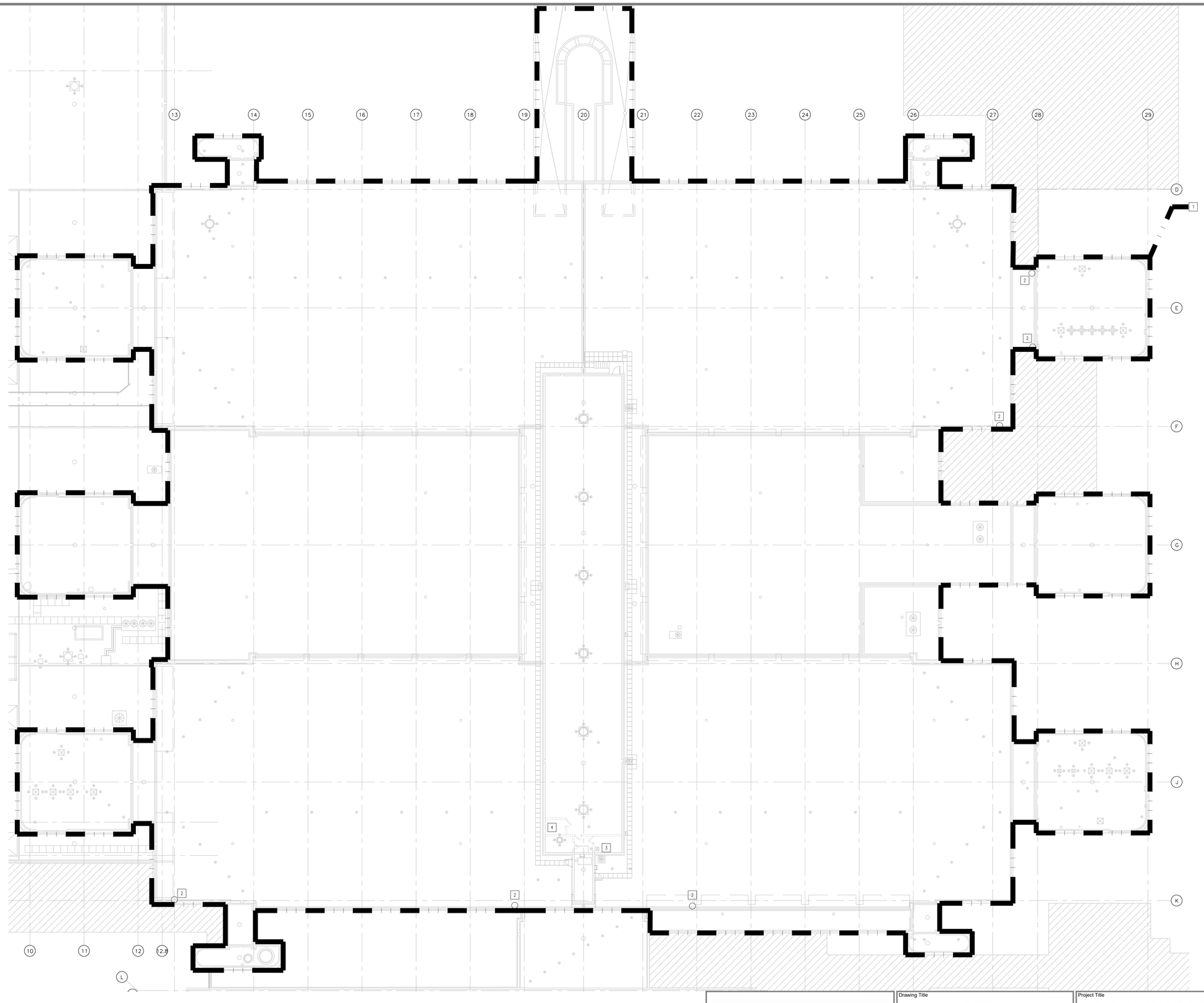
Department of Veterans Affairs

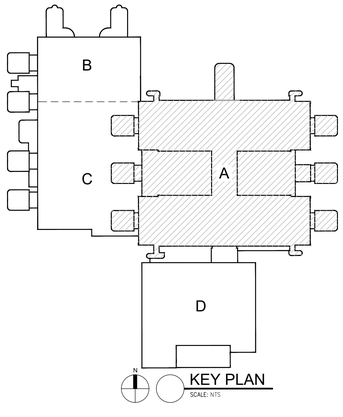
NOTES

1. SEE DRAWING 'E001' FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

DEMOLITION NOTES X

1. REMOVE EXISTING LIGHTNING PROTECTION SYSTEM IN THIS AREA. ANY DOWN CONDUCTORS IN WALLS, VERIFY CONDITION, REPLACE WITH NEW OR SAVE AND PROTECT FOR RE-USE AS REQUIRED.
2. DEMOLISH DOWN CONDUCTOR, RACEWAY AND GROUND ROD. CAP RACEWAY AT BOTH ENDS IF MOUNTED IN WALL.
3. DEMOLISH DOWN CONDUCTOR TO BUS BAR IN ROOM. DEMOLISH IN-LINE SURGE SUPPRESSORS IN ROOM, SAVE AND PROTECT ANTENNA CONDUCTORS FOR RE-CONNECTION.
4. EXISTING DOWN CONDUCTORS TO BUS BAR IN ROOM SHALL REMAIN. EXISTING IN-LINE SURGE SUPPRESSORS SHALL REMAIN.





KEY PLAN
SCALE: NTS

N

1 DEMOLITION ROOF QUANDRANT 'A'
SCALE: SCALE

VRG SERVICES, LLC
SERVICE DISABLED VETERAN OWNED BUSINESS
4902 113th Avenue North
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VRG SERVICES
JA 478 - CA 30240 - CGC 1522362

Drawing Title: ELECTRICAL LIGHTNING PROTECTION DEMOLITION ROOF QUADRANT 'A'	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
			Project No. 516-15-106
Approved: Division Chief	Building Number: 100	Checked: GCL / Drawn: GCL	DRAWING NO. E101A
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		Dwg. 31 of 39

BAY PINES MEDICAL CENTER
Department of Veterans Affairs

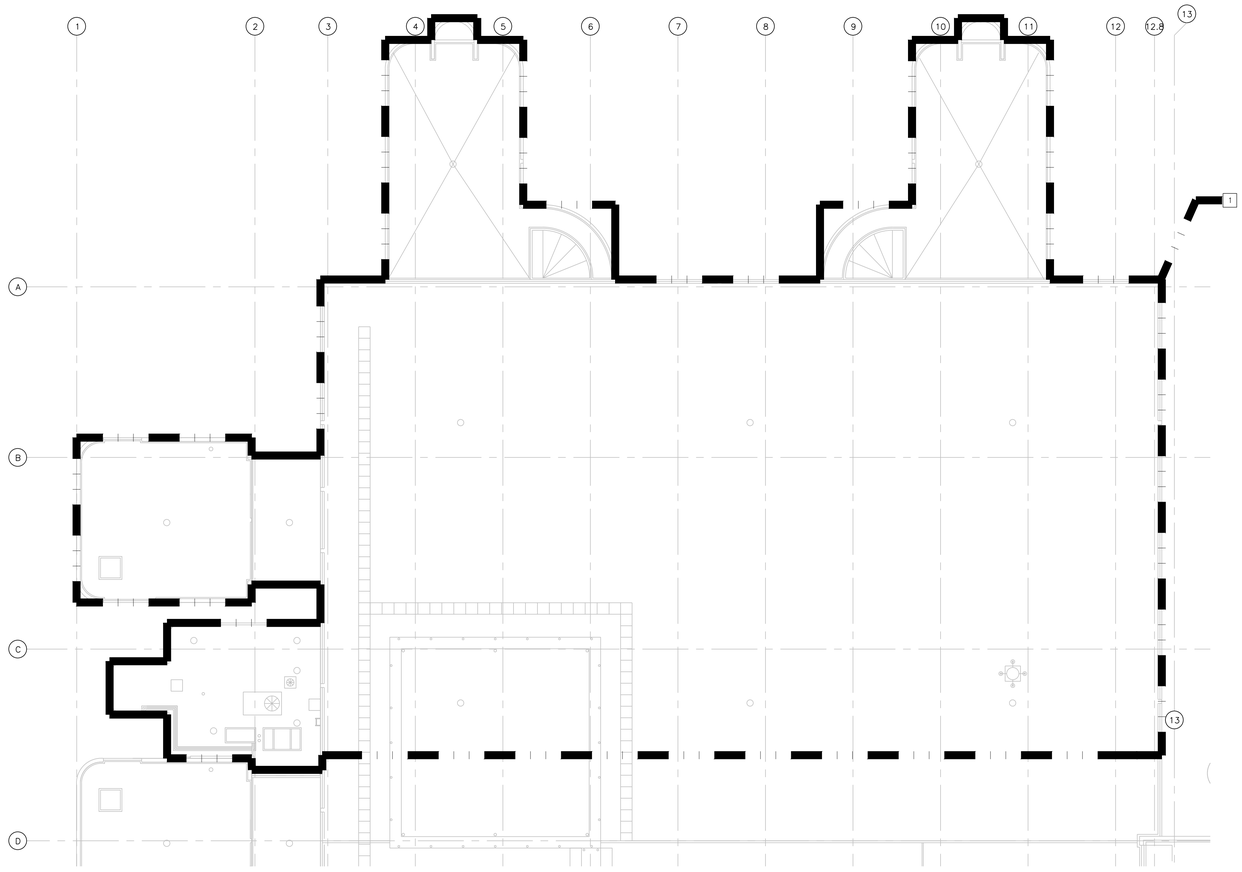
Revisions | Date

NOTES

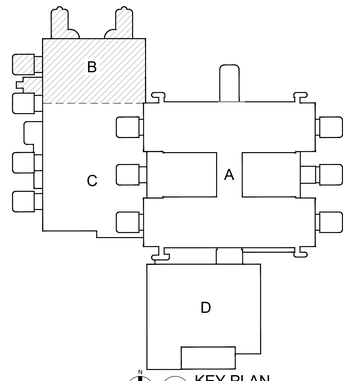
1. SEE DRAWING 'E001' FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

DEMOLITION NOTES X

1. REMOVE EXISTING LIGHTNING PROTECTION SYSTEM IN THIS AREA. ANY DOWN CONDUCTORS IN WALLS, VERIFY CONDITION, REPLACE WITH NEW OR SAVE AND PROTECT FOR RE-USE AS REQUIRED.



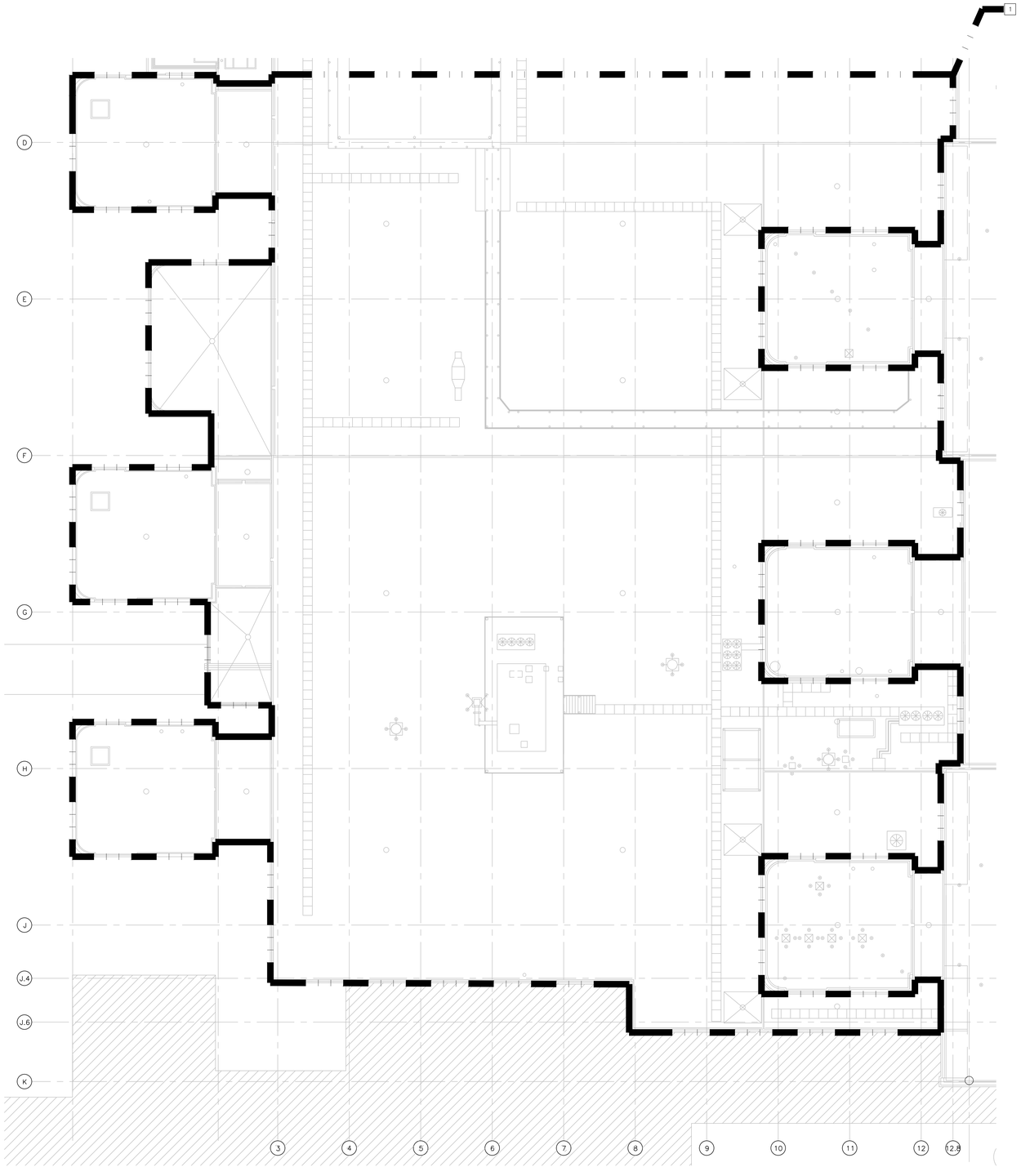
1 DEMOLITION ROOF QUANDRANT 'B'
SCALE: SCALE



KEY PLAN
SCALE: NTS

VRG SERVICES, LLC — SERVICE DISABLED VETERAN OWNED BUSINESS 4902 113th Avenue North Clearwater, Florida 33760 813.999.0330 VRG SERVICES JX 476 - CA 30240 - CGC 1522362	Drawing Title ELECTRICAL LIGHTNING PROTECTION DEMOLITION ROOF QUADRANT 'B'	Project Title BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100	Date 07.26.16	BAY PINES MEDICAL CENTER Department of Veterans Affairs
	Approved: Division Chief	Building Number: 100 / Checked: GCL / Drawn: GCL	Project No. 516-15-106	
	Approved: Service Director	Location VAMC Bay Pines Bay Pines FL 33744	DRAWING NO. E101B Dwg. 32 of 39	

Revisions | Date



1 DEMOLITION ROOF QUANDRANT 'C'

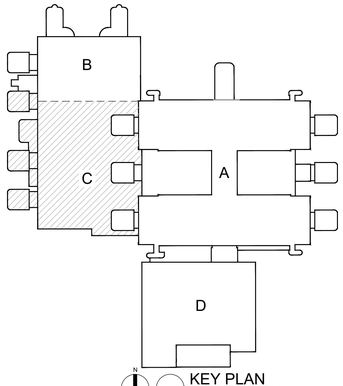
SCALE: SCALE

NOTES

1. SEE DRAWING 'E001' FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

DEMOLITION NOTES X

1. REMOVE EXISTING LIGHTNING PROTECTION SYSTEM IN THIS AREA. ANY DOWN CONDUCTORS IN WALLS, VERIFY CONDITION, REPLACE WITH NEW OR SAVE AND PROTECT FOR RE-USE AS REQUIRED.



KEY PLAN

SCALE: NTS

Revisions	Date

VRG SERVICES, LLC
SERVICE DISABLED VETERAN OWNED BUSINESS
4902 113th Avenue North
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VRG SERVICES
ZA 476 - CA 30240 - CGC 1522362

Drawing Title: ELECTRICAL LIGHTNING PROTECTION DEMOLITION ROOF QUADRANT 'C'	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
			Project No.: 516-15-106
Approved: Division Chief	Building Number: 100	Checked: GCL	Drawn: GCL
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO.: E101C
			Dwg. 33 of 39

BAY PINES MEDICAL CENTER

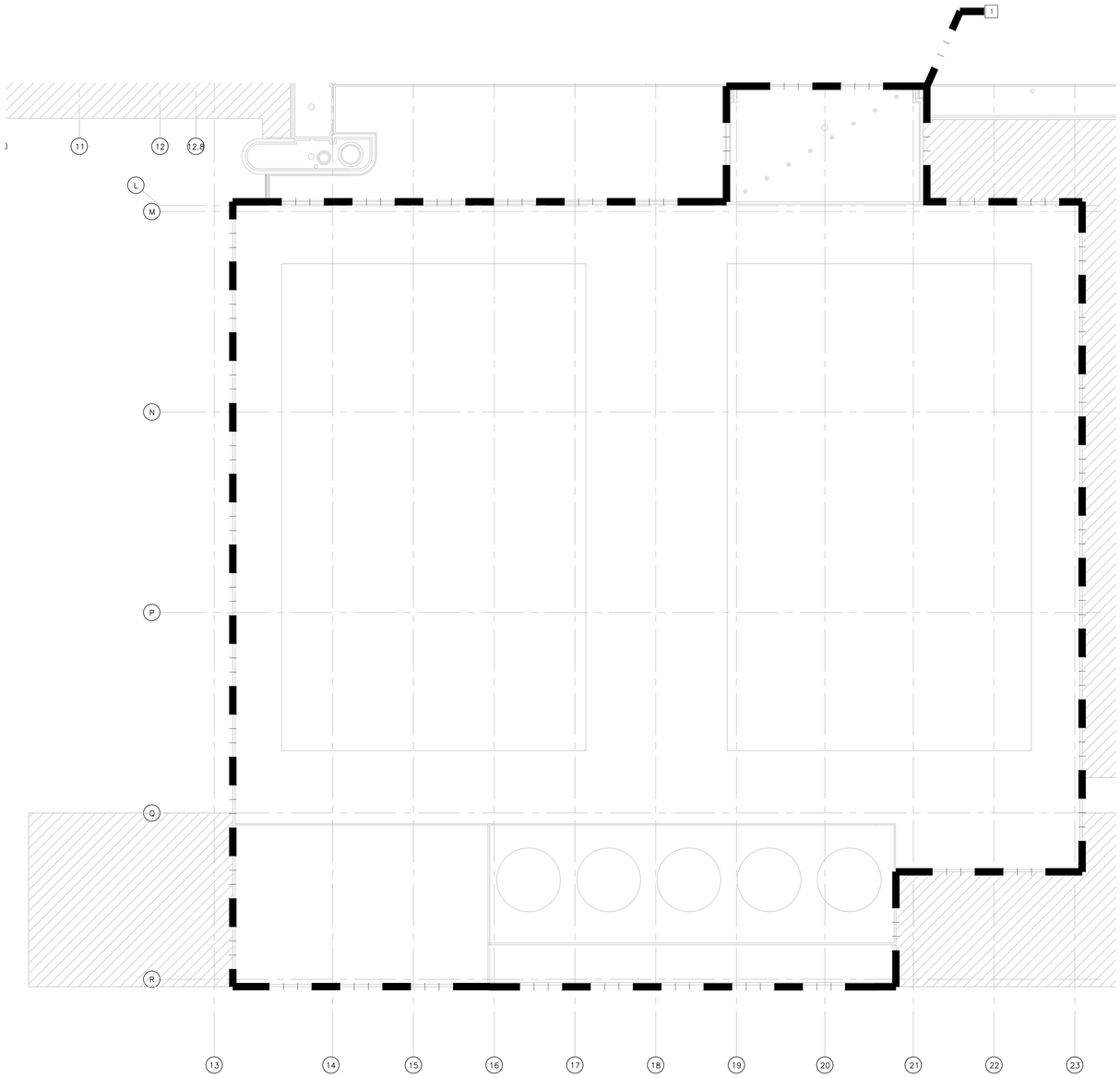
Department of Veterans Affairs

NOTES

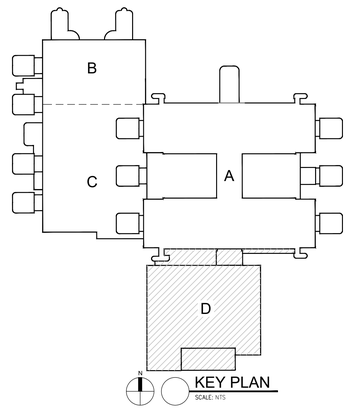
1. SEE DRAWING 'E001' FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

DEMOLITION NOTES X

1. EXISTING LIGHTNING PROTECTION SYSTEM TO REMAIN.



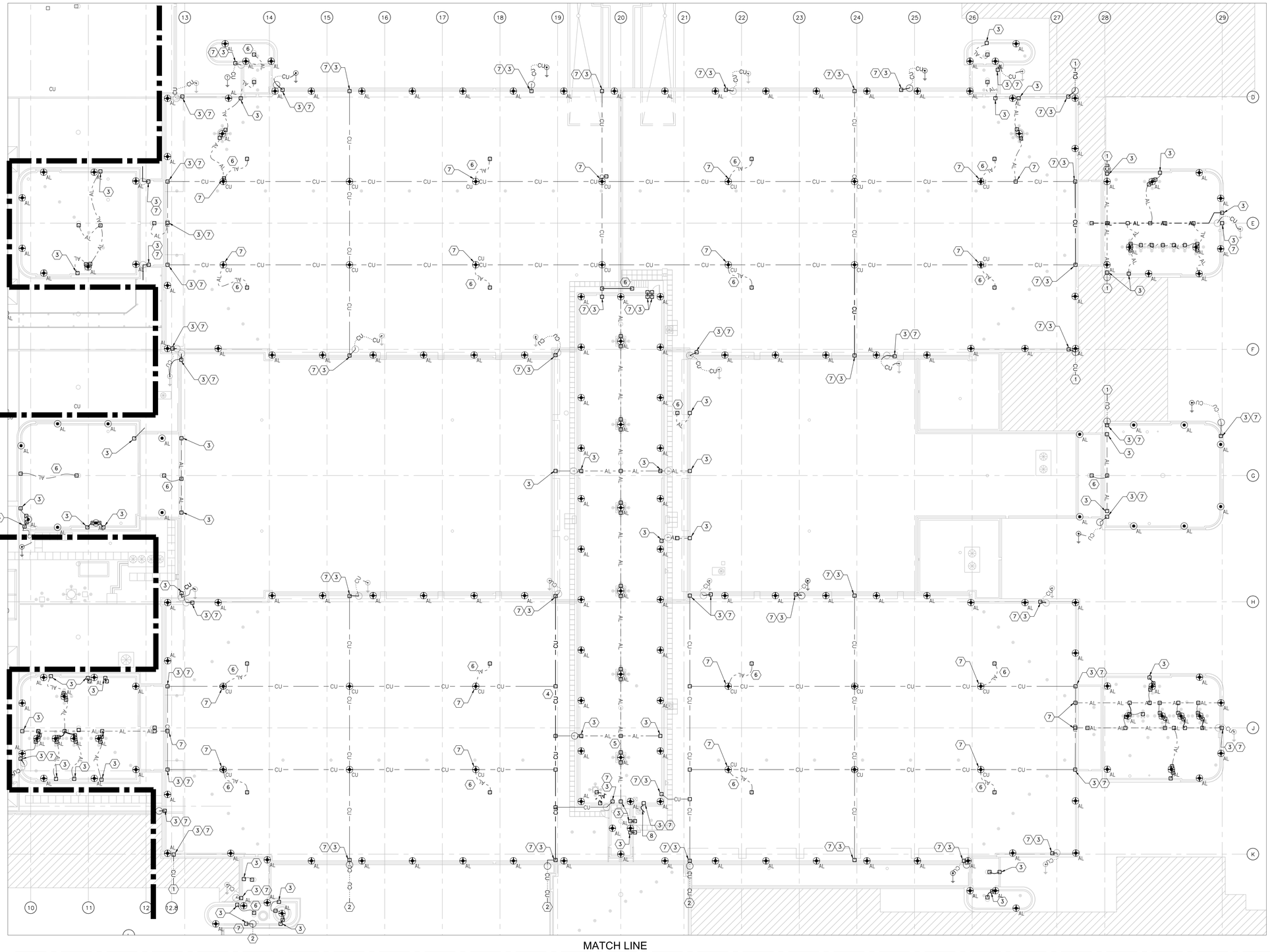
1 DEMOLITION ROOF QUANDRANT 'D'
SCALE: SCALE



KEY PLAN
SCALE: NTS

VRG SERVICES, LLC — SERVICE DISABLED VETERAN OWNED BUSINESS 4902 113th Avenue North Clearwater, Florida 33760 813.999.0330 VRG SERVICES ZA 476 - CA 30240 - CGC 1522362	Drawing Title ELECTRICAL LIGHTNING PROTECTION DEMOLITION ROOF QUADRANT 'D'	Project Title BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100	Date 07.26.16	BAY PINES MEDICAL CENTER Department of Veterans Affairs
	Approved: Division Chief	Building Number: 100 / Checked: GCL / Drawn: GCL	Project No. 516-15-106	
	Approved: Service Director	Location VAMC Bay Pines Bay Pines FL 33744	DRAWING NO. E101D Dwg. 34 of 39	

Revisions | Date

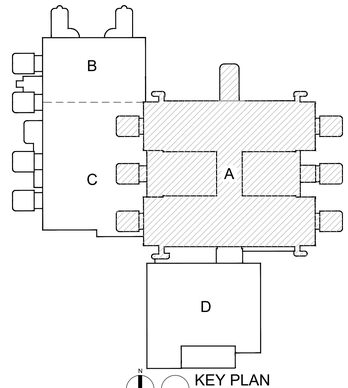


NOTES

1. SEE SHEET 'E0.1' FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ANY METAL EQUIPMENT (LADDERS, ETC) NOT SHOWN ON THE PLANS WITH A CONNECTION TO THE LIGHTNING PROTECTION SYSTEM REQUIRE AT LEAST ONE BOLTED CONNECTION.
3. ALL ELECTRICAL EQUIPMENT WITH AN AIR TERMINAL SHALL BE BONDED AT THE BASE IN TWO PLACES PER CODE.

KEYED NOTES (X)

1. VERIFY NEW BUILDING (N.I.C.) LIGHTNING PROTECTION SYSTEM EXISTS. TIE INTO LIGHTNING PROTECTION SYSTEM AS REQUIRED OR PROVIDE 10FT PIG TAIL FOR FUTURE CONNECTION.
2. PROVIDE AND INSTALL A PIG TAIL DOWN TO BUILDING D, MAKING SURE THERE IS ENOUGH SLACK TO TIE INTO BUILDING D'S NEW LIGHTNING PROTECTION SYSTEM.
3. BOND TO HAND RAILING.
4. TYPICAL 'T' CONNECTION, SEE DRAWING E501.
5. TYPICAL 'CROSS' CONNECTION, SEE DRAWING E501.
6. TYPICAL BONDING CONDUCTOR.
7. BI-METAL CONNECTION: BONDING LUG OR ELECTRO TIN PLATED BRONZE BASE.
8. NEW COPPER DOWN CONDUCTOR: ROUTE CONDUCTOR IN NEW SLEEVE IN WALL AND TERMINATE ON GROUND BAR IN ROOM P103. SEAL PENETRATION ON BOTH SIDES. REPLACE (2) ANTENNA IN-LINE SURGE SUPPRESSORS WITH NEW.



KEY PLAN
SCALE: NTS

1 LIGHTNING PROTECTION RENO - QUANDRANT 'A'
SCALE: 1/16" = 1'-0"

VRG SERVICES, LLC
SERVICE DISABLED VETERAN OWNED BUSINESS
4902 113th Avenue North
Clearwater, Florida 33760
813.999.0330
VRG SERVICES
ZA 476 - CA 30240 - CGC 1522362

Drawing Title: ELECTRICAL LIGHTNING PROTECTION RENOVATION ROOF QUADRANT 'A'	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked: GCL / Drawn: GCL	Project No. 516-15-106
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO. E102A, Dwg. 35 of 39

BAY PINES MEDICAL CENTER
Department of Veterans Affairs

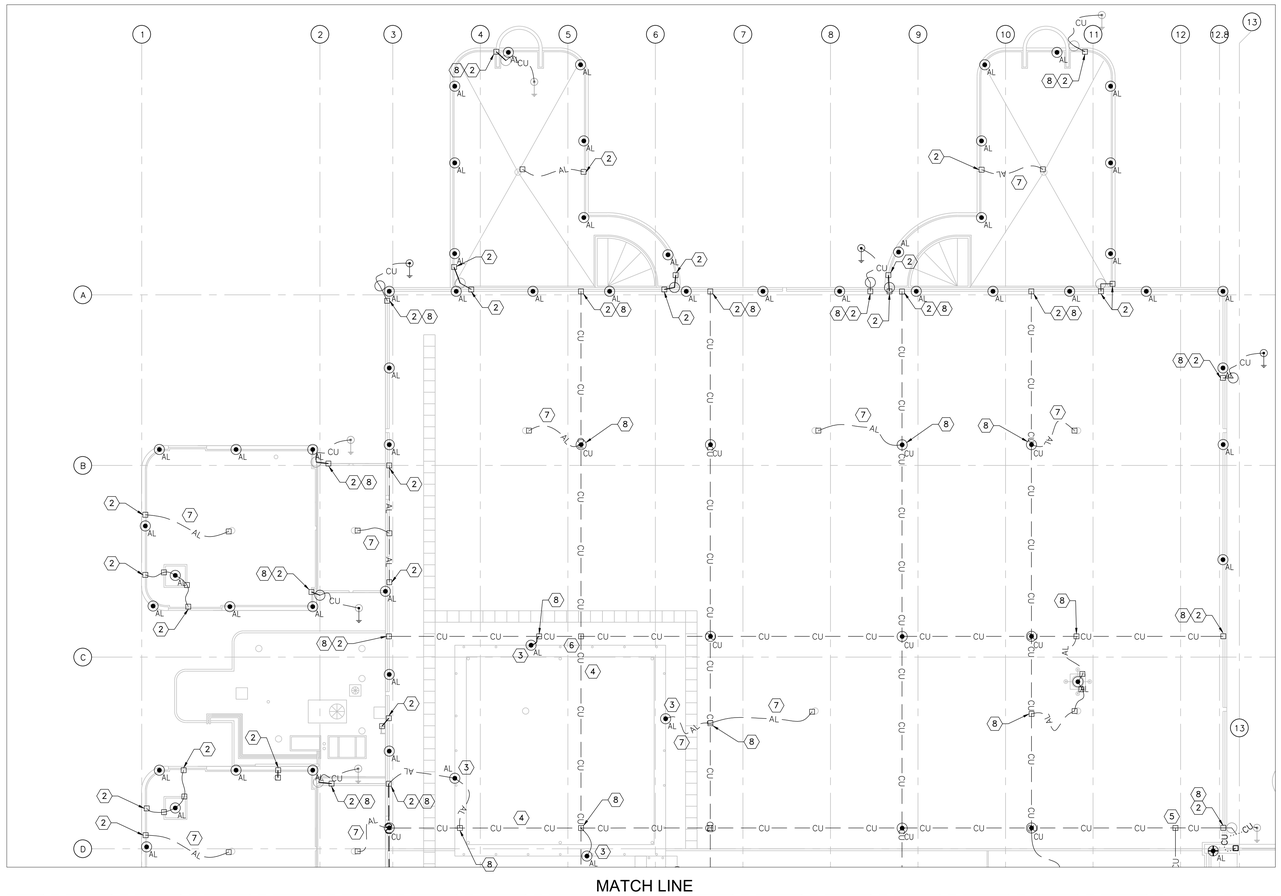
Revisions | Date

NOTES

1. SEE SHEET 'E0.1' FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ANY METAL EQUIPMENT (LADDERS, ETC) NOT SHOWN ON THE PLANS WITH A CONNECTION TO THE LIGHTNING PROTECTION SYSTEM REQUIRE AT LEAST ONE BOLTED CONNECTION.
3. ALL ELECTRICAL EQUIPMENT WITH AN AIR TERMINAL SHALL BE BONDED AT THE BASE IN TWO PLACES PER CODE.

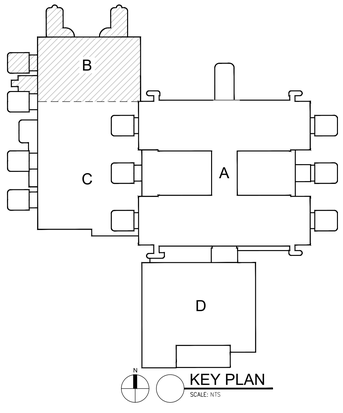
KEYED NOTES (X)

1. VERIFY NEW BUILDING (N.I.C.) LIGHTNING PROTECTION SYSTEM EXISTS. TIE INTO LIGHTNING PROTECTION SYSTEM AS REQUIRED OR PROVIDE 10FT PIG TAIL FOR FUTURE CONNECTION.
2. BOND TO HAND RAILING.
3. MOUNT TO METAL RAILING ON HELICOPTER PLATFORM.
4. VERIFY THICKNESS OF HELICOPTER PLATFORM, BOND TO IT OR RUN MAIN CONDUCTOR UNDERNEATH.
5. TYPICAL 'T' CONNECTION, SEE DRAWING E501.
6. TYPICAL 'CROSS' CONNECTION, SEE DRAWING E501.
7. TYPICAL BONDING CONDUCTOR.
8. BI-METAL CONNECTION: BONDING LUG OR ELECTRO TIN PLATED BRONZE BASE.



MATCH LINE
(SEE DRAWING E102C)

1 LIGHTNING PROTECTION RENO - QUANDRANT 'B'
SCALE: 1/16" = 1'-0"



KEY PLAN
SCALE: NTS

Revisions	Date

VRG SERVICES, LLC
SERVICE DISABLED VETERAN OWNED BUSINESS

4902 113th Avenue North
Clearwater, Florida 33760
813.999.0330

VRG SERVICES
ZA 476 - CA 30240 - CGC 1522362

Drawing Title: ELECTRICAL LIGHTNING PROTECTION RENOVATION ROOF QUADRANT 'B'	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked: GCL / Drawn: GCL	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO.: E102B — Dwg. 36 of 39

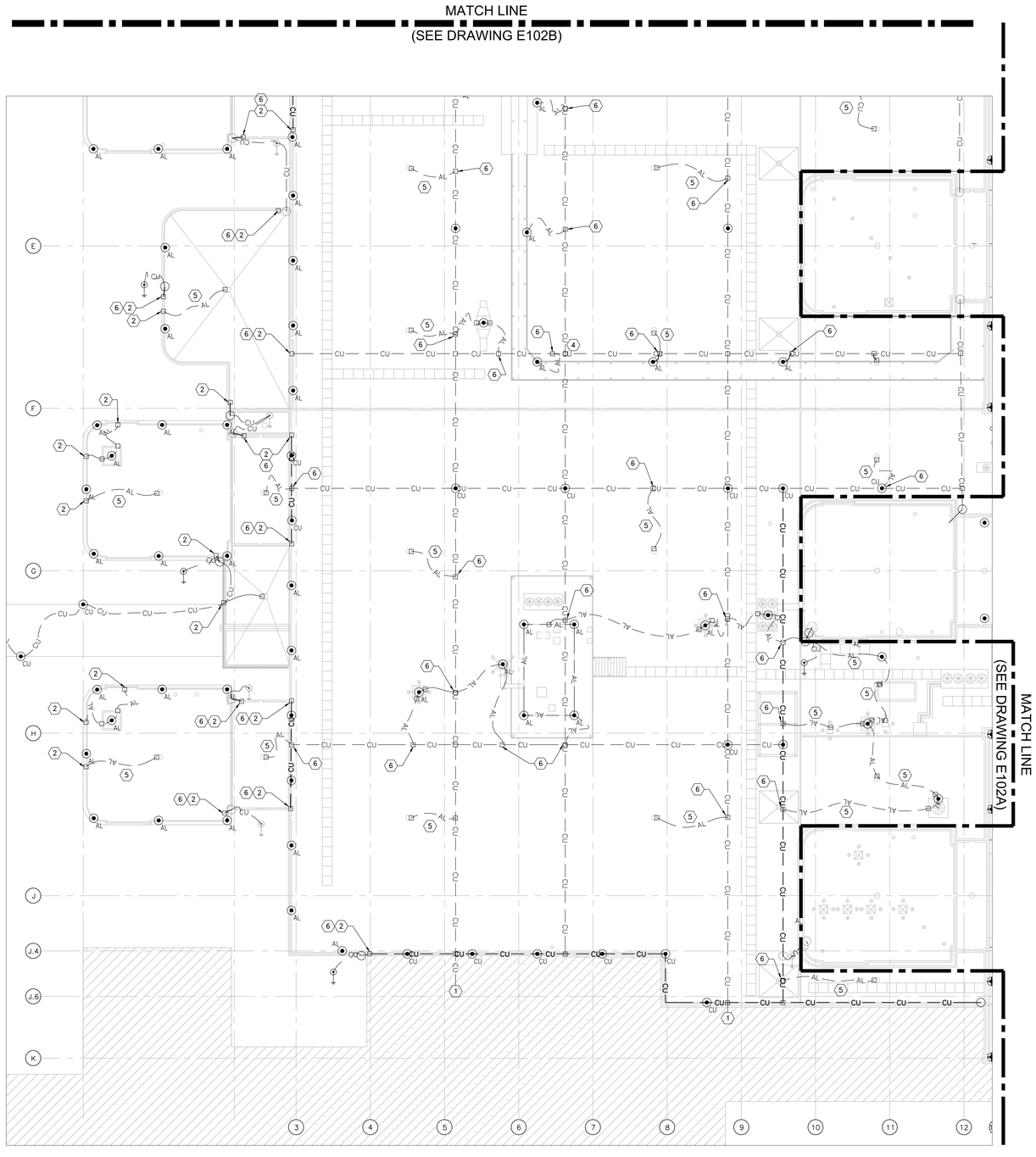
BAY PINES MEDICAL CENTER
Department of Veterans Affairs

NOTES

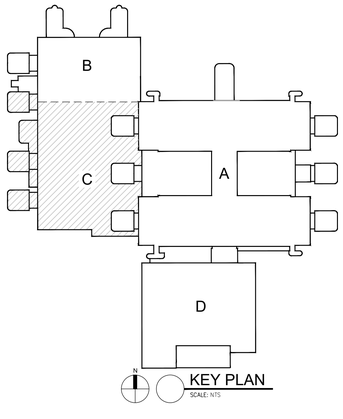
1. SEE SHEET 'E0.1' FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ANY METAL EQUIPMENT (LADDERS, ETC) NOT SHOWN ON THE PLANS WITH A CONNECTION TO THE LIGHTNING PROTECTION SYSTEM REQUIRE AT LEAST ONE BOLTED CONNECTION.
3. ALL ELECTRICAL EQUIPMENT WITH AN AIR TERMINAL SHALL BE BONDED AT THE BASE IN TWO PLACES PER CODE.

KEYED NOTES (X)

1. VERIFY NEW BUILDING (N.I.C.) LIGHTNING PROTECTION SYSTEM EXISTS. TIE INTO LIGHTNING PROTECTION SYSTEM AS REQUIRED OR PROVIDE 10FT PIG TAIL FOR FUTURE CONNECTION.
2. BOND TO HAND RAILING.
3. TYPICAL "T" CONNECTION, SEE DRAWING E501.
4. TYPICAL "CROSS" CONNECTION, SEE DRAWING E501.
5. TYPICAL BONDING CONDUCTOR.
6. BI-METAL CONNECTION: BONDING LUG OR ELECTRO TIN PLATED BRONZE BASE.



1 LIGHTNING PROTECTION RENO - QUANDRANT 'C'
SCALE: 1/16" = 1'-0"



KEY PLAN
SCALE: NTS

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ZA 476 - CA 30240 - CGC 1522362

Drawing Title: ELECTRICAL LIGHTNING PROTECTION RENOVATION ROOF QUADRANT 'C'	Project Title: BAY PINES VA HEALTHCARE SYSTEM REPLACE ROOF BUILDING 100		Date: 07.26.16
Approved: Division Chief	Building Number: 100	Checked: GCL / Drawn: GCL	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO.: E102C, Dwg. 37 of 39

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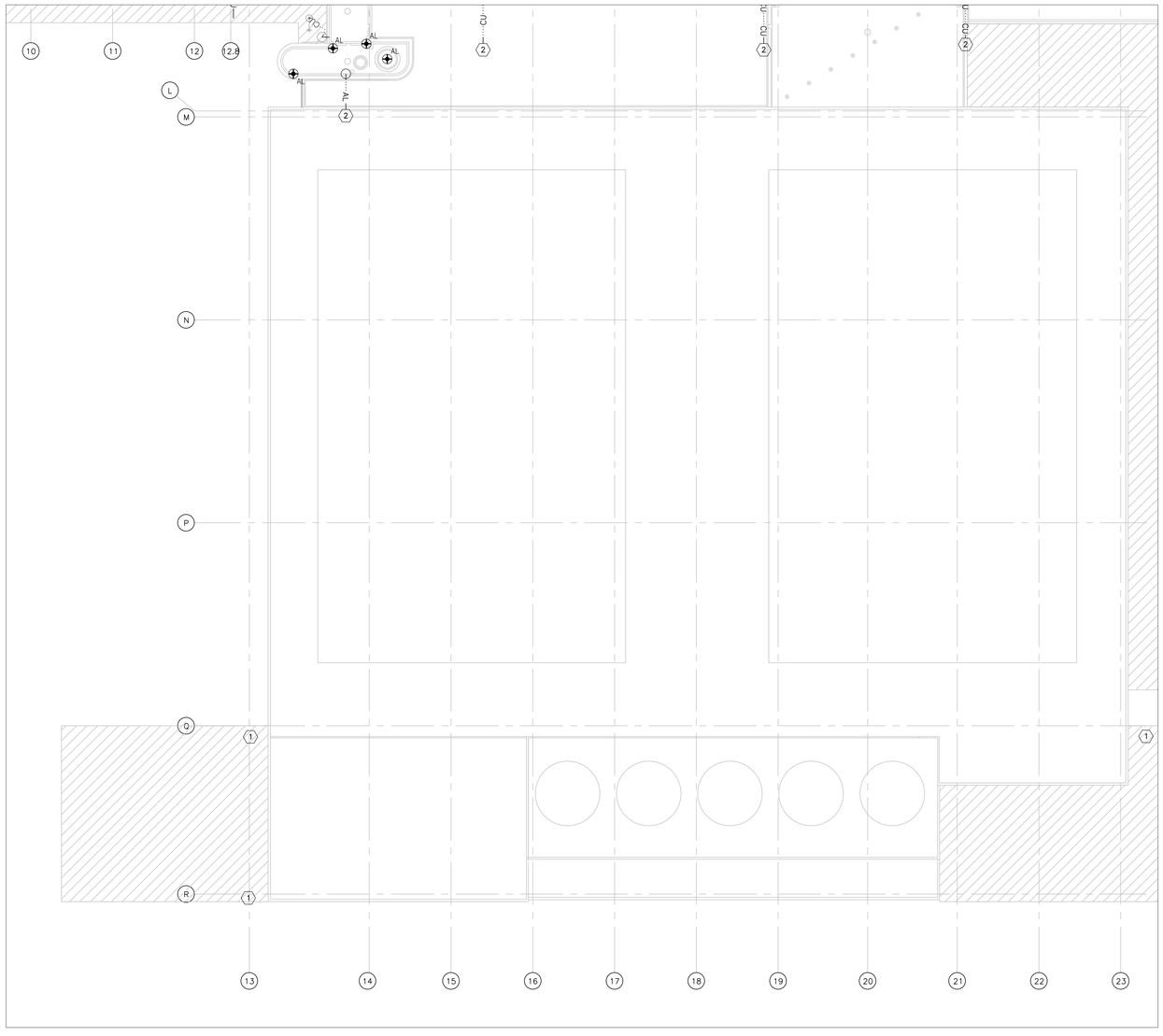
MATCH LINE
(SEE DRAWING E102A)



NOTES

1. SEE SHEET 'E0.1' FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES,
2. ANY METAL EQUIPMENT (LADDERS, ETC) NOT SHOWN ON THE PLANS WITH A CONNECTION TO THE LIGHTNING PROTECTION SYSTEM REQUIRE AT LEAST ONE BOLTED CONNECTION.
3. ALL ELECTRICAL EQUIPMENT WITH AN AIR TERMINAL SHALL BE BONDED AT THE BASE IN TWO PLACES PER CODE.

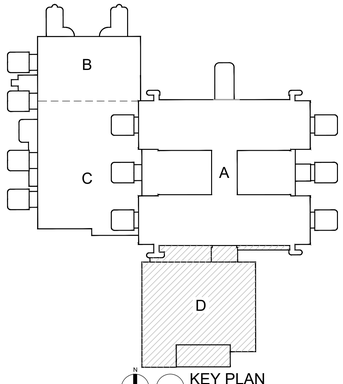
KEYED NOTES (X)

1. VERIFY NEW BUILDING (N.I.C.) LIGHTNING PROTECTION SYSTEM EXISTS. TIE INTO LIGHTNING PROTECTION SYSTEM AS REQUIRED OR PROVIDE 10FT PIG TAIL FOR FUTURE CONNECTION.
2. PIG TAILS FROM BUILDING A, TIE INTO BUILDING D'S NEW LIGHTNING PROTECTION SYSTEM.
3. BOND TO HAND RAILING.

N

1 LIGHTINING PRTECTION RENO - QUADRANT 'D'

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



N

KEY PLAN

SCALE: NTS

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Approved: Division Chief	Building Number: 100	Checked: GCL / Drawn: GCL	Project No. 516-15-106
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO. E102D Dwg. 38 of 39

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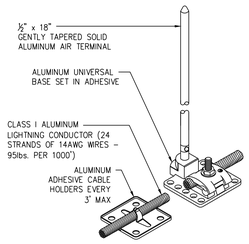
NOTES

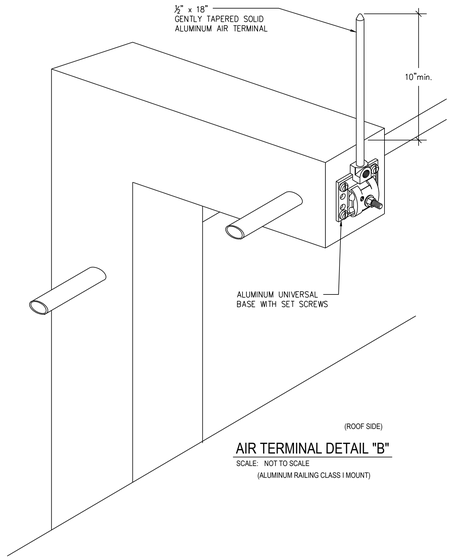
1. SEE SHEET 'E0.1' FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.



AIR TERMINAL DETAIL "A"

SCALE: NOT TO SCALE

(ROOF/EQUIPMENT CLASS I ALUMINUM MOUNT)

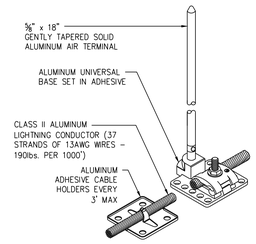


(ROOF SIDE)

AIR TERMINAL DETAIL "B"

SCALE: NOT TO SCALE

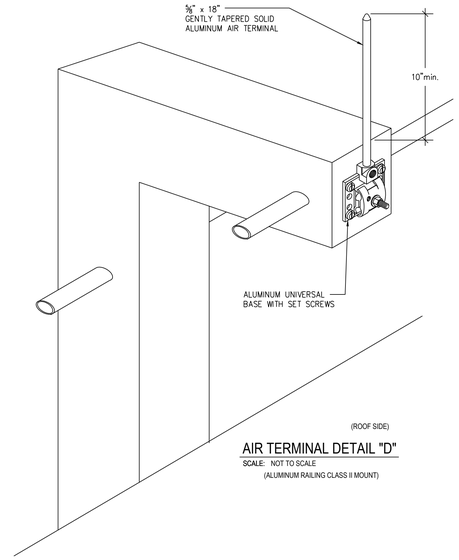
(ALUMINUM RAILING CLASS I MOUNT)



AIR TERMINAL DETAIL "C"

SCALE: NOT TO SCALE

(ROOF/EQUIPMENT CLASS II ALUMINUM MOUNT)

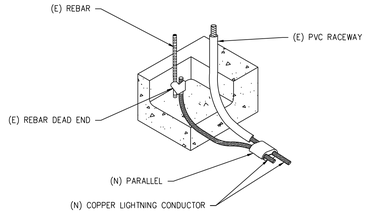


(ROOF SIDE)

AIR TERMINAL DETAIL "D"

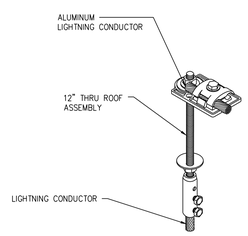
SCALE: NOT TO SCALE

(ALUMINUM RAILING CLASS II MOUNT)



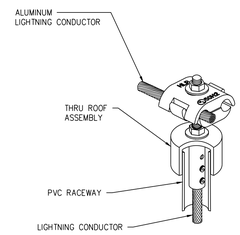
TYPICAL REBAR BOND AT GRADE DETAIL 'E'

SCALE: NOT TO SCALE



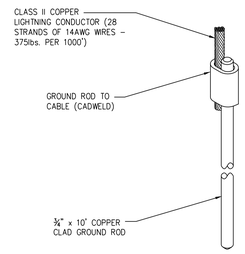
RIGHT ANGLE TO STRAIGHT CONNECTION DETAIL 'F1'

SCALE: NOT TO SCALE



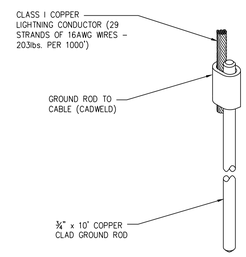
THRU ROOF CONNECTORS DETAIL 'F2'

SCALE: NOT TO SCALE



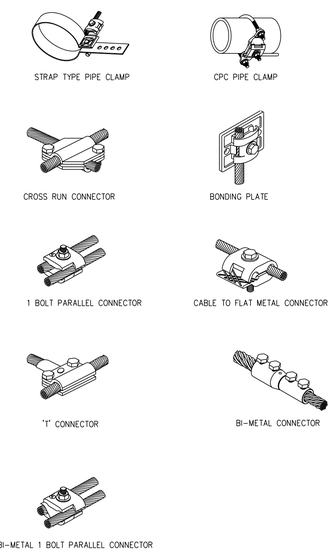
GROUND ROD DETAIL "G2"

SCALE: NOT TO SCALE



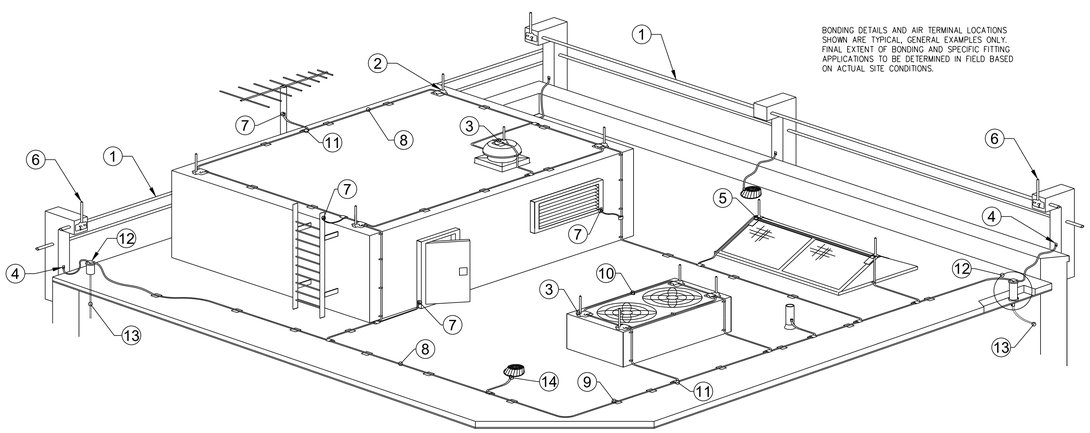
GROUND ROD DETAIL "G1"

SCALE: NOT TO SCALE



TYPICAL BONDING/SPLICING DETAILS 'H'

SCALE: NOT TO SCALE

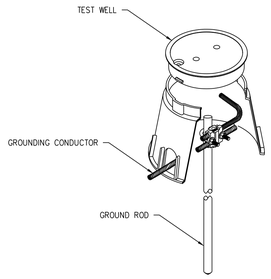


BONDING DETAILS AND AIR TERMINAL LOCATIONS SHOWN ARE TYPICAL, GENERAL EXAMPLES ONLY. FINAL EXTENT OF BONDING AND SPECIFIC FITTING APPLICATIONS TO BE DETERMINED IN FIELD BASED ON ACTUAL SITE CONDITIONS.

1. NEW RAILING.
2. HORIZONTALLY MOUNTED AIR TERMINAL ON ROOF (DETAILS A & C).
3. AIR TERMINALS MOUNTED ON MECHANICAL EQUIPMENT ENCLOSURE.
4. BOND TO RAILING EVERY 100FT.
5. AIR TERMINAL ON SKYLIGHT WITH SADDLE TYPE AIR TERMINAL BASE.
6. AIR TERMINAL MOUNTED ON GUARDRAIL (DETAILS B & D).
7. BOND WINDOW, DOOR FRAMES, V.T.R.'S, LADDERS, AND ANTENNAS, OR ANY METALLIC OBJECTS WITH BONDING LUGS AND SECONDARY CONDUCTOR.
8. MAIN LIGHTNING CONDUCTOR.
9. ADEHSIVE CABLE HOLDER EVERY 3 FEET MAXIMUM SPACING.
10. CABLE CLIP WITH STAINLESS STEEL SCREWS EVERY 3 FEET MAXIMUM SPACING.
11. PARALLEL CABLE CONNECTOR (DETAIL H).
12. THRU-ROOF CONNECTOR (DETAILS F1 & F2).
13. LIGHTNING DOWN CONDUCTOR.
14. CABLE TO FLAT METAL CONNECTOR (DETAIL H).

TYPICAL ROOF LIGHTNING PROTECTION LAYOUT

SCALE: NOT TO SCALE



TYPICAL TEST WELL DETAIL 'I'

SCALE: NOT TO SCALE

Revisions | Date

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Approved: Division Chief	Building Number: 100	Checked: GCL / Drawn: GCL	Project No.: 516-15-106
Approved: Service Director	Location: VAMC Bay Pines, Bay Pines FL 33744		DRAWING NO. E501 Dwg. 39 Of 39

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