

BUILDING	FUNCTION
2,3,4 5,6,7	QUARTERS
9	VACANT
11	LINEN
12	GROUND - MAINTENANCE
14	ADMINISTRATION / FMS SHOPS
15	ADMINISTRATION
24	CREDIT UNION
27,28,29 30,31	OTRS. GARAGES
32,33,38	STORAGE
47	<b>MAIN HOSPITAL</b>
62	NURSING HOME
63	BLDG.15 BOILER
64	FIRE PUMP ROOM
65	BLDG.15 CHILLER
70	MENTAL HEALTH
71	CRU CONFERENCE BLDG. (TEMP)
72T	SWING SPACE

AC	AIR CONDITIONER	CFM	CUBIC FEET PER MINUTE	GOV	GOVERNMENT	REINF	REINFORCE(D), (ING)
AF	ABOVE FINISHED FLOOR	CM	DEEP/DEPTH	GWB	GYPSON WALL BOARD	RM	ROOM
ALT	ALTERNATE	DTL	DETAIL	HT	HIGHT	RT	RIGHT
ALU	ALUMINUM	DIA #	DIAMETER	HRZ	HORIZONTAL	SCH	SCHEDULE
ARCH	ARCHITECT(URAL)	DR	DOMESTIC HOT WATER	HOUR	HOUR	SEQ	SEQUENCE
ACBM	ASBESTOS CONTAINING BUILDING MATERIALS	DWG	DOOR	INSUL	INSULATION/INSULATING	SMT	SHEET
BOT	BOTTOM	EFA	DRAWING	INT	INTERIOR	SIM	SIMILAR
BTW	BETWEEN	EAC	EACH	JT	JOINT	SPEC	SPECIFICATION(S)
BLDG	BUILDING	ELEC	ELECTRIC(AL)	LAV	LAVATORY	SQL	SQUARE
CLG	CEILING	EWC	ELECTRIC WATER COOLER	LT	LEFT	STL	STEEL
6	CENTER LINE	ELEV	ELEVATION/ELEVATOR	MFR	MANUFACTURE(R)	STRUCT	STRUCTURAL
CER	CERAMIC	EM	EMERGENCY	MAX	MAXIMUM	SUSP	SUSPENDED
CKT	CIRCUIT	EQ	EQUAL	MECH	METAL	THICK(NESS)	THICKNESS
CMU	CONCRETE MASONRY UNIT	EXIST	EXISTING	MECH	MECHANICAL	TRANSV	TRANSVERSE
CO	CONTRACTING OFFICER	EXP	EXPANSION	MIN	MINIMUM	TYP	TYPICAL
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE	EXT	EXTERIOR	N/A	NOT APPLICABLE	UG	UNDERGROUND
		FT	FEET	N	NORTH	VERT	VERTICAL
		FUR	FURRING	NIC	NOT IN CONTRACT	VB	VAPOR BARRIER
CW	COLD WATER	FLUR	FLUORESCENT	NTS	NOT TO SCALE	VCT	VINYL COMPOSITE TILE
COL	COLUMN	GAU	GAUGE	NO	NUMBER	WC	WATER CLOSET
CONC	CONCRETE	GALV	GALVANIZED	OC	ON CENTER(S)	W/	WITH
CONC	CONCRETE, CONTINUE	GR	GRADE/GRADING	OPP	OPPOSITE	W/O	WITHOUT
CU	CURIC	GL	GLASS	OD	OUTSIDE DIAMETER		

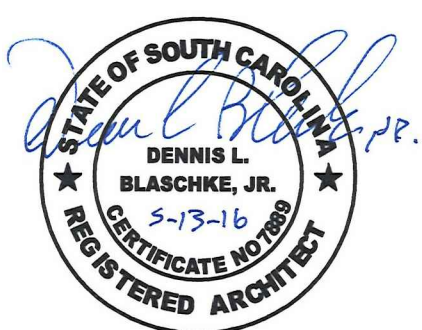
CONTRACTOR MAY ONLY WORK THE HOURS OF 8:00 A.M. TO 4:30 P.M.; MONDAY THROUGH FRIDAY AND NO GOVERNMENT HOLIDAYS WITHOUT CO/COTR PRIOR APPROVAL.

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**"CONFIDENTIAL"**

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THESE DRAWINGS MUST BE RETURNED TO FACILITIES MANAGEMENT SERVICE, PROJECT SECTION, UPON COMPLETION, OR FINAL USE BY THE CONTRACTOR FOR BIDDING PURPOSES.



**LINDBERGH  
& ASSOCIATES**  
a T.Y. Lin International Company

# UPGRADE HVAC, B-47 PHASE 4 BLDG NO. 47      PROJECT NO. 637-12-106



## INDEX OF DRAWINGS

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STRUCTURAL			47M002	34	SCHEDULES
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## GENERAL NOTES

- |   |   |
|---|---|
| 1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. SCHEDULE ON-SITE INSPECTIONS WITH THE PROJECT COTR.  | 15. CONTRACTOR SHALL MAINTAIN DUST CONTROL AT ALL TIMES. CONTRACTOR SHALL USE "STICKY MATS" OUTSIDE EACH WORK AREA, AND SHALL ERECT DUST BARRIERS, TO MINIMIZE DUST/DIRT SPREADING/TRACKING TO THE GREATEST EXTENT POSSIBLE.  |
| 2. CONTRACTOR SHALL COMPLY WITH ALL INTERNATIONAL BUILDING (IBC), PLUMBING, MECHANICAL, ELECTRICAL CODES AND VA STANDARDS.                                  | 16. CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A NEAT AND ORDERLY FASHION AT ALL TIMES. CORRIDORS SHALL BE KEPT CLEAR OF ALL DEBRIS AND OBSTRUCTIONS TO ALLOW SAFE PASSAGE FOR EMPLOYEES, PATIENTS, VISITORS AND WORKERS. DISPOSE OF ALL TRASH AND DISCARDED MATERIALS, AND MAINTAIN STORAGE ONLY WITHIN THE CONFINES OF THE JOB SITE OR OTHER APPROVED AREAS. |
| 3. CONTRACTOR SHALL COMPLY WITH OSHA, EPA, NFPA, AND ALL OTHER APPLICABLE SAFETY CODES AND REGULATIONS AT ALL TIMES.  | 17. ALL DAMAGES INCURRED TO ADJACENT AREAS SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT HIS OWN EXPENSE.   |
| 4. ALL ELECTRICAL WORK SHALL BE PER SPECIFICATIONS.   | 18. ALL MATERIALS REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR, TO BE DISPOSED OF OFF-SITE UNLESS SCHEDULED TO BE REINSTALLED OR TURNED OVER TO THE VA.  |
| 5. PROVIDE FINISH QUALITY REPAIR AS A RESULT OF ALL DEMOLITION.   | 19. CONTRACTOR SUPERINTENDENT SHALL CARRY A PAGER AND/OR INSTALL A JOB SITE TELEPHONE. FURNISH NUMBERS TO THE PROJECT COTR UPON CONTRACT AWARD.   |
| 6. PAINTING REQUIRES ONE COAT OF PRIMER ON NEW WALL AND DRY WALL PATCHES. TWO COATS OF FINISH ON ALL WALLS AS INDICATED ON THE FINISH SCHEDULE.             | 20. CONTRACTOR SHALL SCHEDULE ALL UTILITY INTERRUPTIONS WITH THE PROJECT COTR AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE. UTILITY INTERRUPTIONS MAY REQUIRE OVERTIME WORK FOR ALL TRADES INVOLVED, AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE VA.   |
| 7. REPLACE ALL DAMAGED CEILING TILES WITHIN THE CONSTRUCTION AREA, AS NEEDED AND AS A RESULT OF DEMOLITION.   | 21. MANUFACTURER'S TRADE NAMES USED TO HEREIN IDENTIFY A MINIMUM STANDARD. SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER, OTHER PRODUCTS SHALL BE CONSIDERED, PROVIDED THEY ARE EQUIVALENT TO THESE STANDARDS AND MEET THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS AND DRAWINGS.  |
| 8. SEE FINISH SCHEDULE IN SPECIFICATION (DRAWING FINISH SCHEDULES ARE FOR GENERAL GUIDANCE ONLY) FOR NEW COVE BASE, HAND RAILS AND CHAIR RAILS AS REQUIRED. |   |
| 9. PROVIDE POLYURETHANE FINISH TO NEW WOOD DOORS OFF STATION OR V.A. APPROVED LOCATION.   |   |
| 10. SUBMITTALS AND COTR APPROVAL REQUIRED ON ALL NEW MATERIALS.   |   |
| 11. ALL NEW DOMESTIC, HEATING & COOLING, WATER LINES AND STEAM, SUPPLY & RETURN SHALL BE INSULATED.   |   |
| 12. CONTRACTOR STAGING AND ACCESS WILL BE FINALIZED AT THE PRE-CONSTRUCTION MEETING.  |   |
| 13. ALL WORK SHALL BE PERFORMED BY CRAFTSMEN WHO ARE JOURNEYMEN OF THE TRADE IN WHICH THEY ARE PERFORMING WORK.   |   |
| 14. CONTRACTOR SUPERINTENDENT SHALL REPORT TO THE PROJECT COTR EACH MORNING BEFORE WORK BEGINS, AT WHICH TIME THE DAILY SCHEDULE SHALL BE DISCUSSED.        |   |

BY	REVISIONS	DATE	

Project Title UPGRADE HVAC B-47 PHASE 4 CHARLES GEORGE VAMC	Drawing Title COVER SHEET			Date 05/13/2016	 Office of Facilities	 Department of Veterans Affairs
				Project No. 637.12.106		
	Building Number 47	Checked DLB	Drawn ECB	DRAWING NO. 47GI001		
	Location ASHEVILLE, NC			Dwg 1 Of 64		



	F	E	D	C	B	A
ONE-EIGHTH INCH = ONE FOOT						
ONE-QUARTER INCH = ONE FOOT						
ONE-HALF INCH = ONE FOOT						
THREE-EIGHTHS INCH = ONE FOOT						
THREE-QUARTERS INCH = ONE FOOT						
ONE INCH = ONE FOOT						
ONE AND ONE-HALF INCHES = ONE FOOT						
THREE INCHES = ONE FOOT						

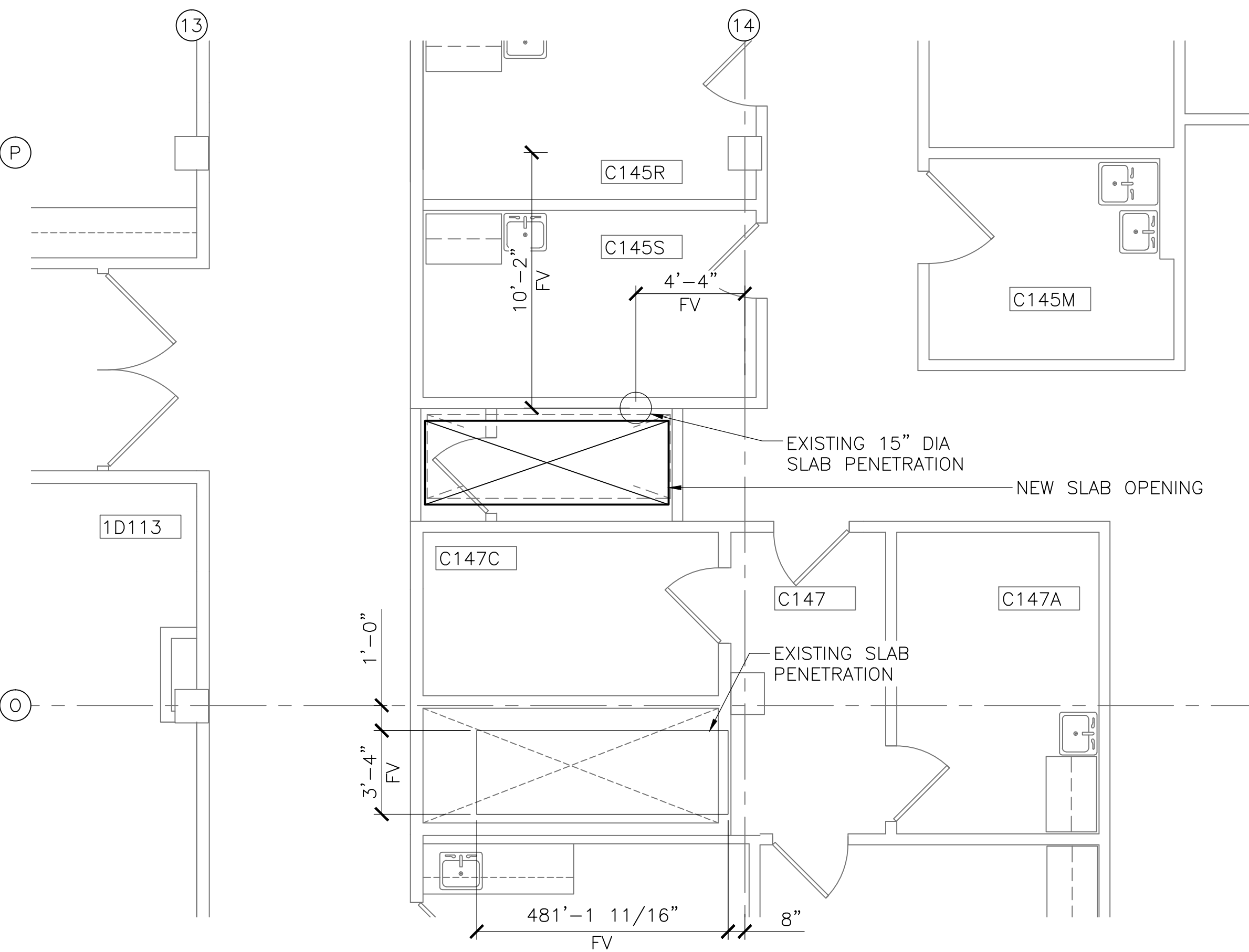
	F	E	D	C	B	A
ONE-EIGHTH INCH = ONE FOOT						
ONE-QUARTER INCH = ONE FOOT						
ONE-HALF INCH = ONE FOOT						
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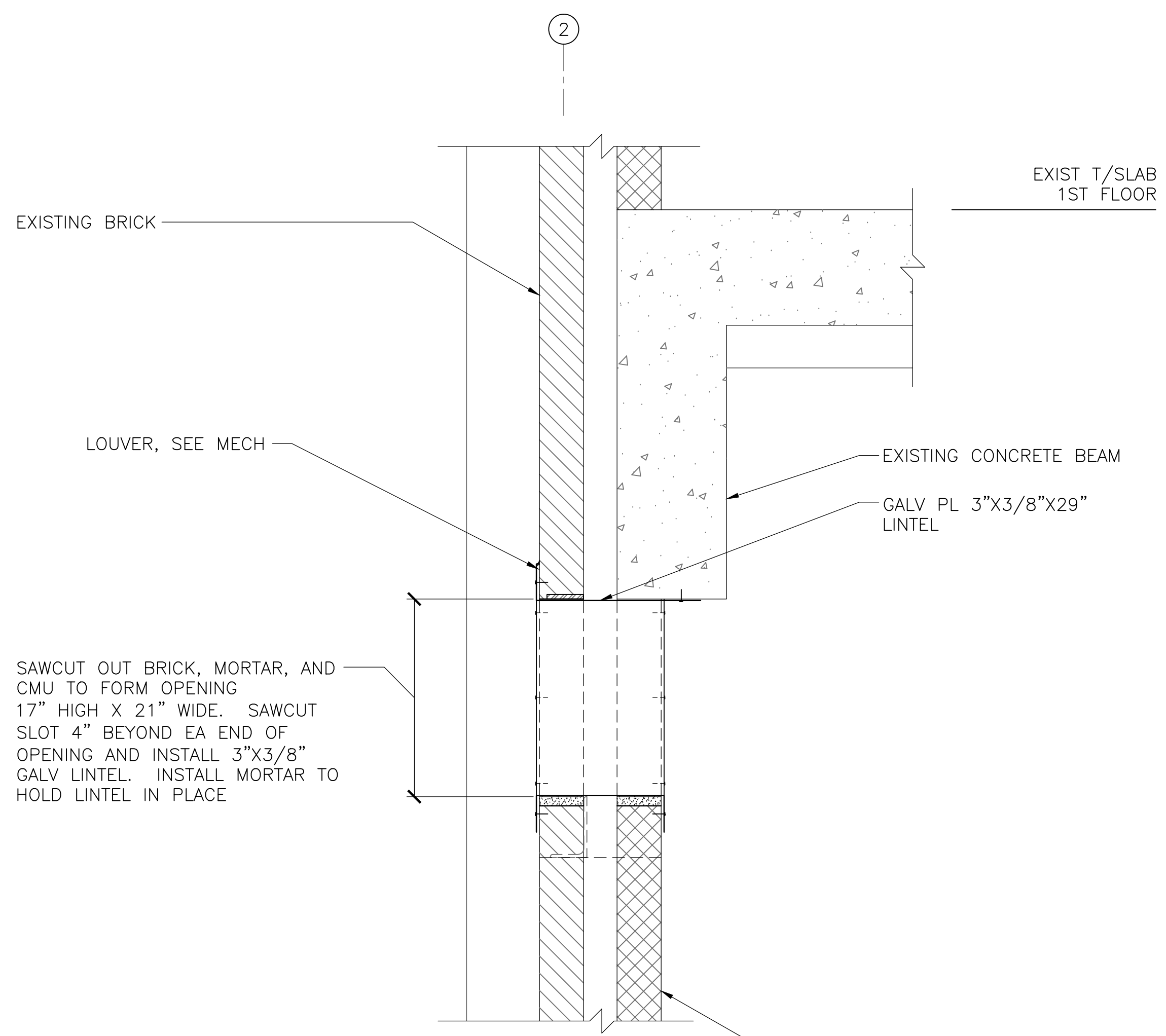
Department of  
Veterans Affairs



A  
ONE AND ONE-HALF INCHES = ONE FOOT  
B  
ONE AND ONE-HALF INCHES = ONE FOOT  
C  
ONE INCH = ONE FOOT  
D  
THREE-QUARTERS INCH = ONE FOOT  
E  
ONE-HALF INCH = ONE FOOT  
F  
THREE-EIGHTHS INCH = ONE FOOT  
ONE-QUARTER INCH = ONE FOOT  
ONE-EIGHTH INCH = ONE FOOT

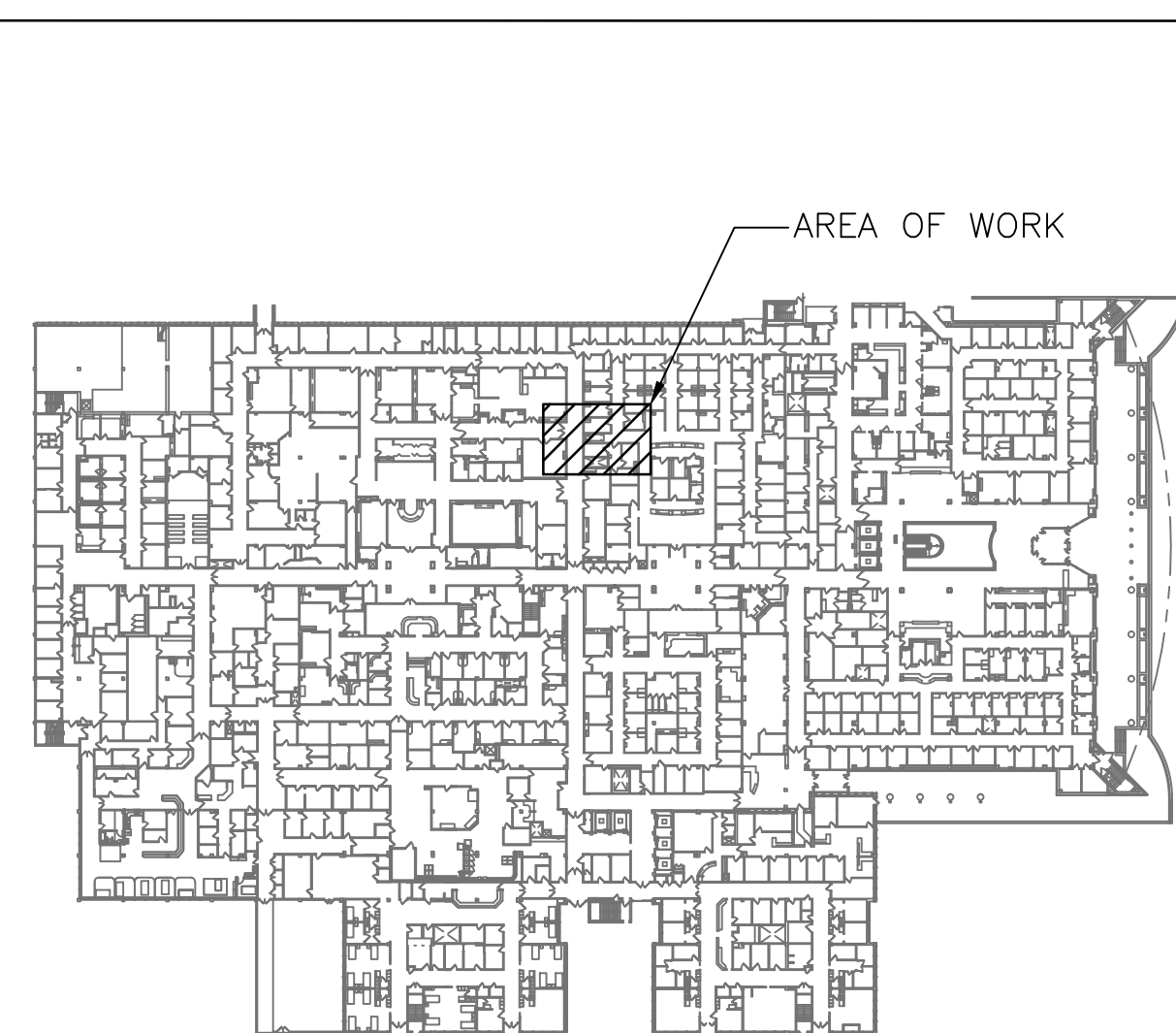
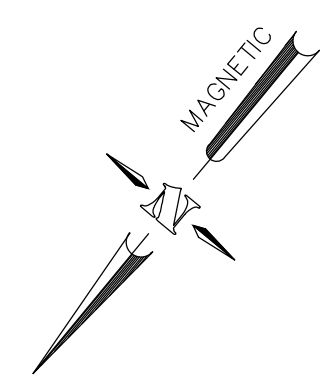


1 **ENLARGED 1ST FLOOR SLAB PLAN**  
SCALE: 1/4" = 1'-0"

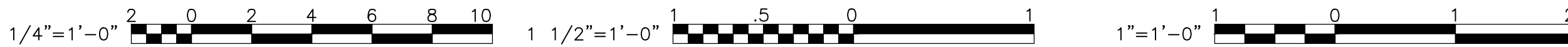


NOTE  
1. NEW WALL OPENING @ 4'-4" NORTH OF COLUMN 2/F, BETWEEN BASEMENT & FIRST FLOOR. SEE DRAWING 74MH103.

2 **SECTION THROUGH NEW WALL OPENING FOR DUCT PENETRATION**  
SCALE: 1 1/2" = 1'-0"



LOCATION KEY - BUILDING 47 - FIRST FLOOR



BY	REVISIONS	DATE



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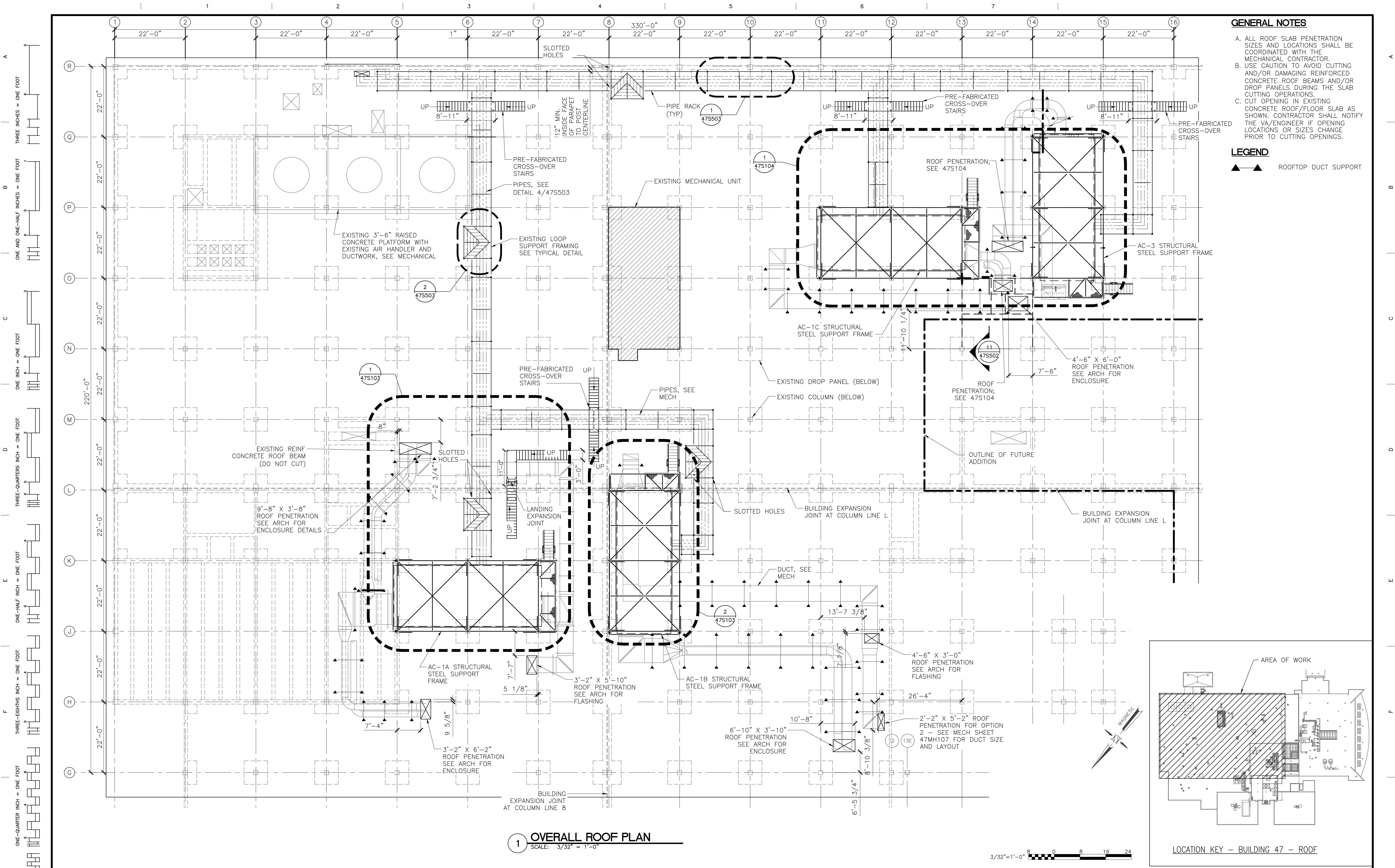
Project Title  
UPGRADE HVAC  
B-47 PHASE 4  
CHARLES GEORGE VAMC

Drawing Title  
ENLARGED FIRST FLOOR  
SLAB PLAN & DETAILS  
Building Number 47  
Checked JAC  
Drawn PDW  
Location ASHEVILLE, NC

Date 05/13/2016  
Project No. 637.12.106  
DRAWING NO. 47S101  
Dwg 3 of 64







- GENERAL NOTES**
- A. ALL ROOF SLAB PENETRATION SIZES AND LOCATIONS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR.
  - B. USE CAUTION TO AVOID CUTTING AND/OR DAMAGING REINFORCED CONCRETE ROOF BEAMS AND/OR DROP PANELS DURING THE SLAB CUTTING OPERATIONS.
  - C. CUT OPENING IN EXISTING CONCRETE ROOF/FLOOR SLAB AS SHOWN. CONTRACTOR SHALL NOTIFY THE VA/ENGINEER IF OPENING LOCATIONS OR SIZES CHANGE PRIOR TO CUTTING OPENINGS.

**LEGEND**

▲ ▲ ROOFTOP DUCT SUPPORT

**1 OVERALL ROOF PLAN**  
SCALE: 3/32" = 1'-0"

3/32" = 1'-0"

BY	REVISIONS	DATE



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Project Title  
UPGRADE HVAC  
B-47 PHASE 4  
CHARLES GEORGE VAMC

Drawing Title  
OVERALL ROOF PLAN

Building Number 47	Checked JAC	Drawn PDW
Location ASHEVILLE, NC		

Date  
05/13/2016

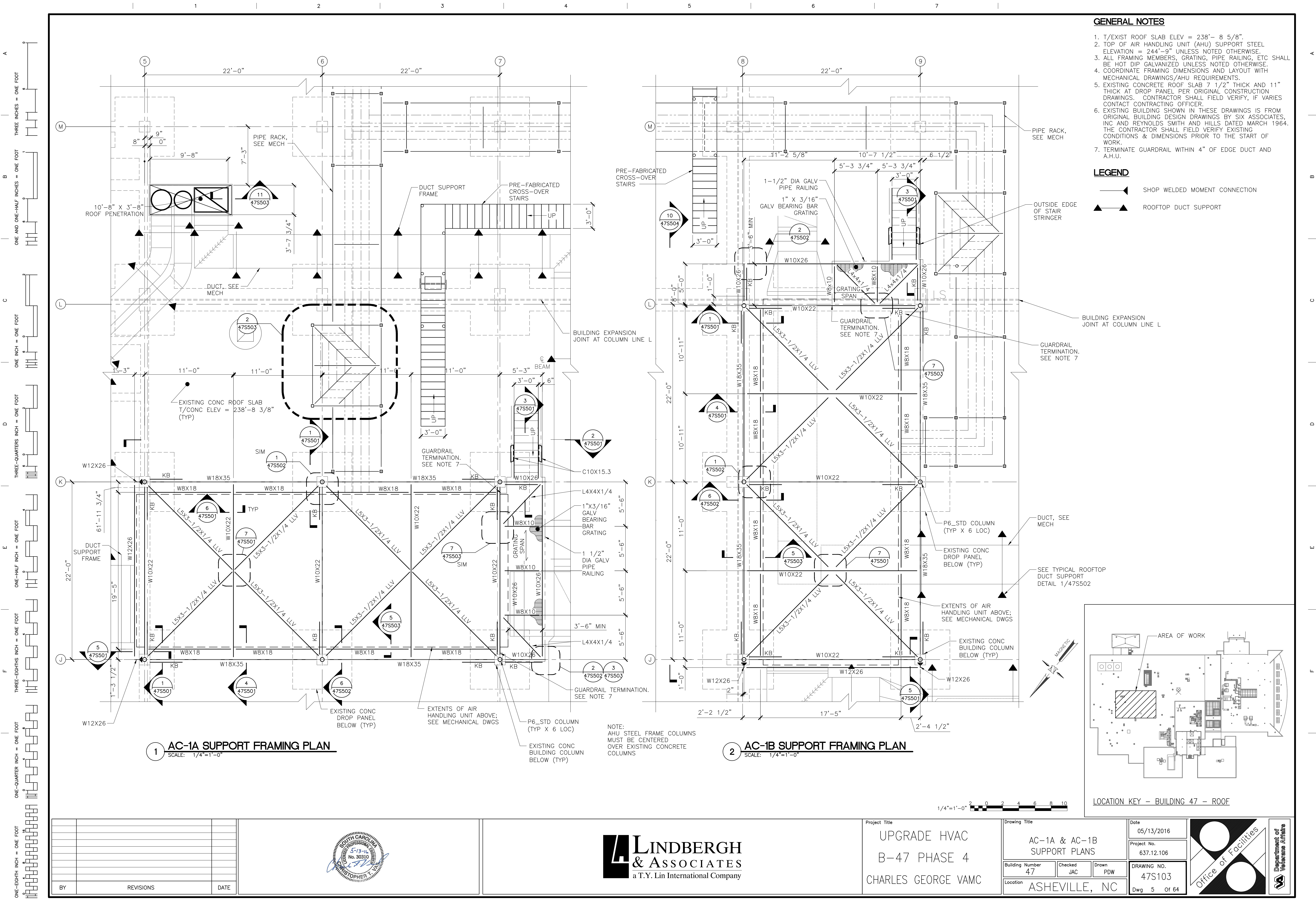
Project No.  
637.12.106

DRAWING NO.  
47S102

Dwg 4 of 64





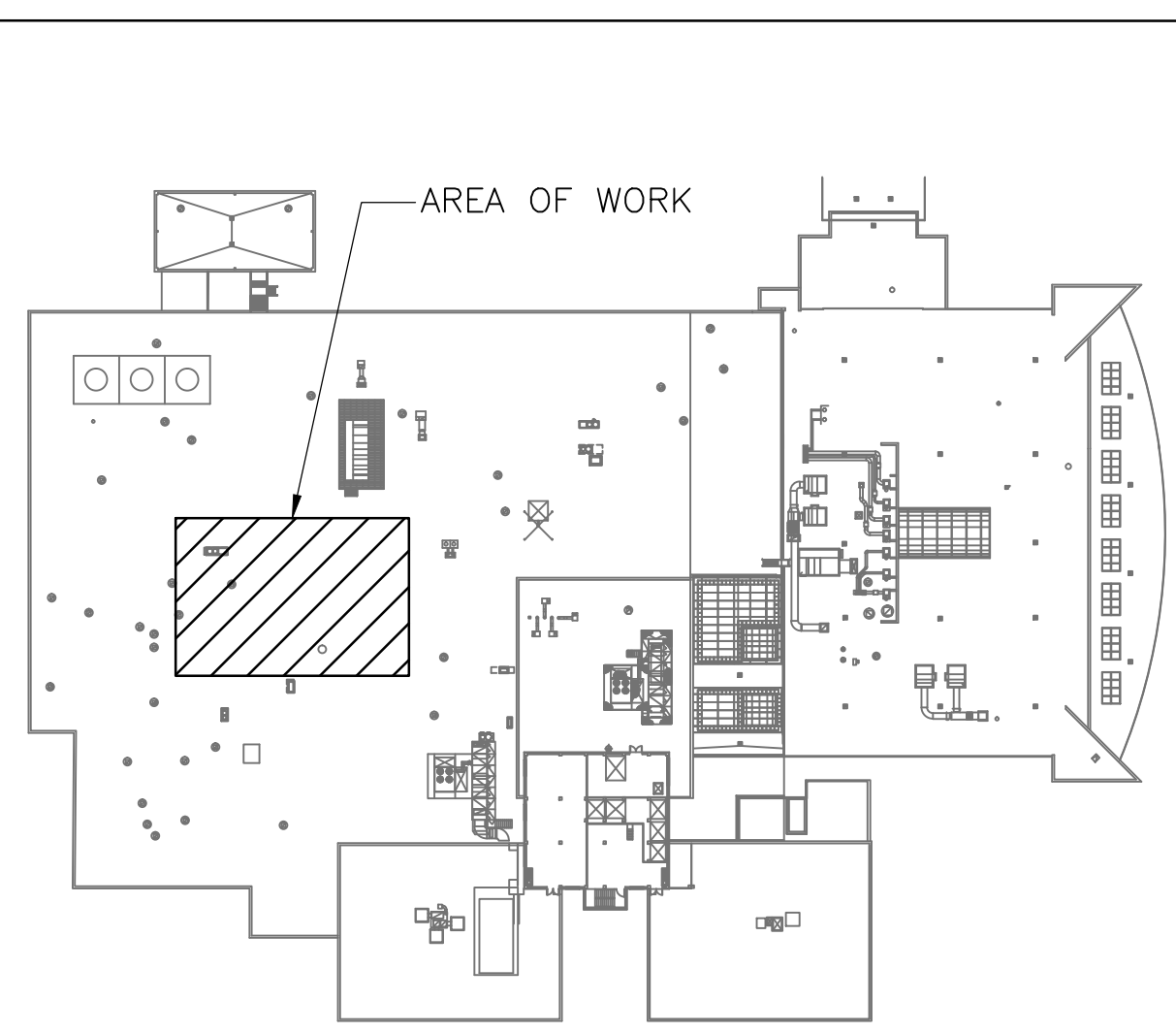


- GENERAL NOTES**
1. T/EXIST ROOF SLAB ELEV = 238'-8 5/8".
  2. TOP OF AIR HANDLING UNIT (AHU) SUPPORT STEEL ELEVATION = 244'-9" UNLESS NOTED OTHERWISE.
  3. ALL FRAMING MEMBERS, GRATING, PIPE RAILING, ETC SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.
  4. COORDINATE FRAMING DIMENSIONS AND LAYOUT WITH MECHANICAL DRAWINGS/AHU REQUIREMENTS.
  5. EXISTING CONCRETE ROOF SLAB 7 1/2" THICK AND 11" THICK AT DROP PANEL PER ORIGINAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL FIELD VERIFY, IF VARIES CONTACT CONTRACTING OFFICER.
  6. EXISTING BUILDING SHOWN IN THESE DRAWINGS IS FROM ORIGINAL BUILDING DESIGN DRAWINGS BY SIX ASSOCIATES, INC AND REYNOLDS SMITH AND HILLS DATED MARCH 1964. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & DIMENSIONS PRIOR TO THE START OF WORK.
  7. TERMINATE GUARDRAIL WITHIN 4" OF EDGE DUCT AND A.H.U.

- LEGEND**
- SHOP WELDED MOMENT CONNECTION
  - ROOFTOP DUCT SUPPORT

**1 AC-1A SUPPORT FRAMING PLAN**  
SCALE: 1/4"=1'-0"

**2 AC-1B SUPPORT FRAMING PLAN**  
SCALE: 1/4"=1'-0"



LOCATION KEY - BUILDING 47 - ROOF

BY	REVISIONS	DATE



**LINDBERGH & ASSOCIATES**  
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Project Title  
UPGRADE HVAC  
B-47 PHASE 4  
CHARLES GEORGE VAMC

Drawing Title AC-1A & AC-1B SUPPORT PLANS		
Building Number 47	Checked JAC	Drawn PDW
Location ASHEVILLE, NC		

Date 05/13/2016
Project No. 637.12.106
DRAWING NO. 47S103
Dwg 5 of 64



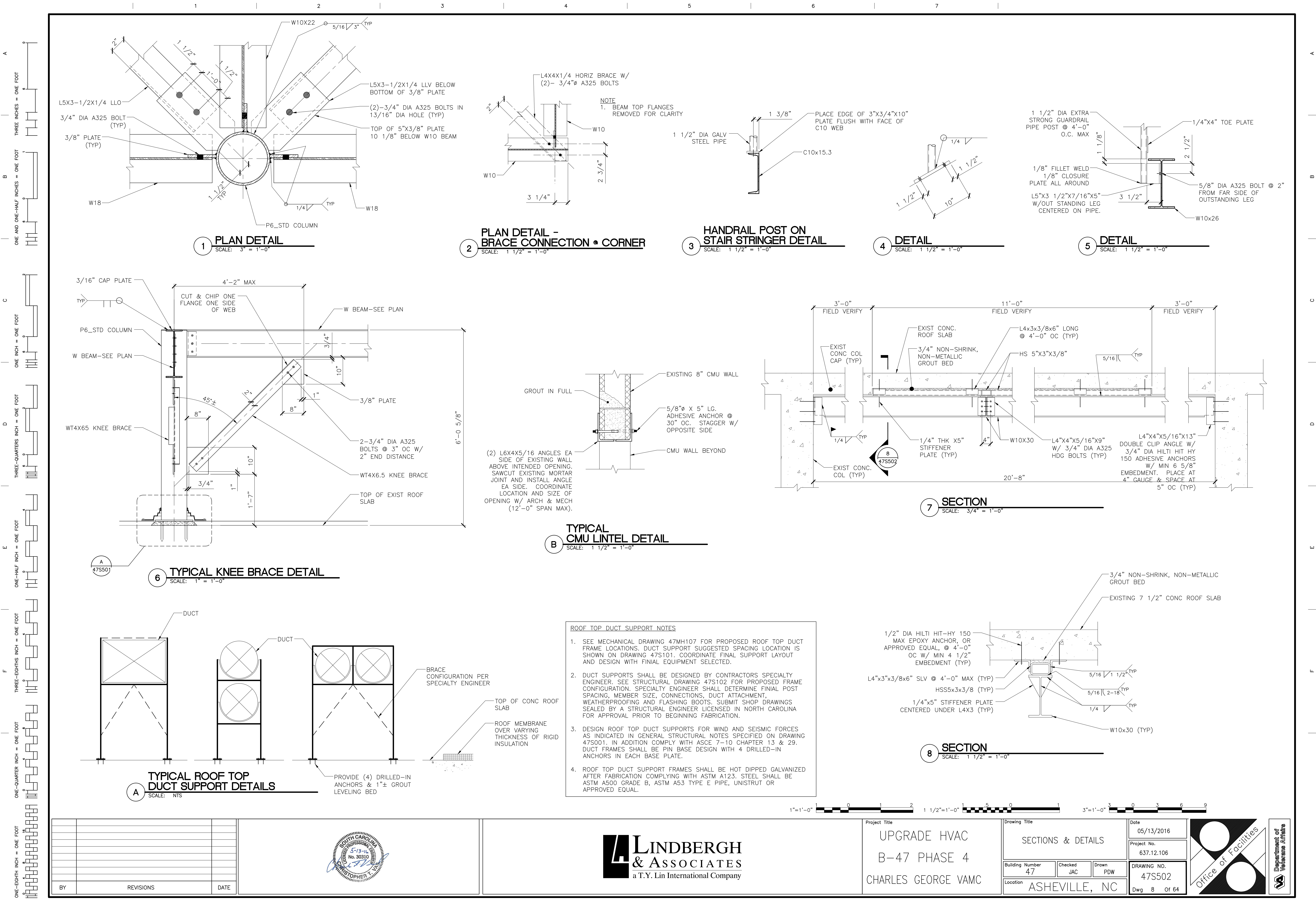




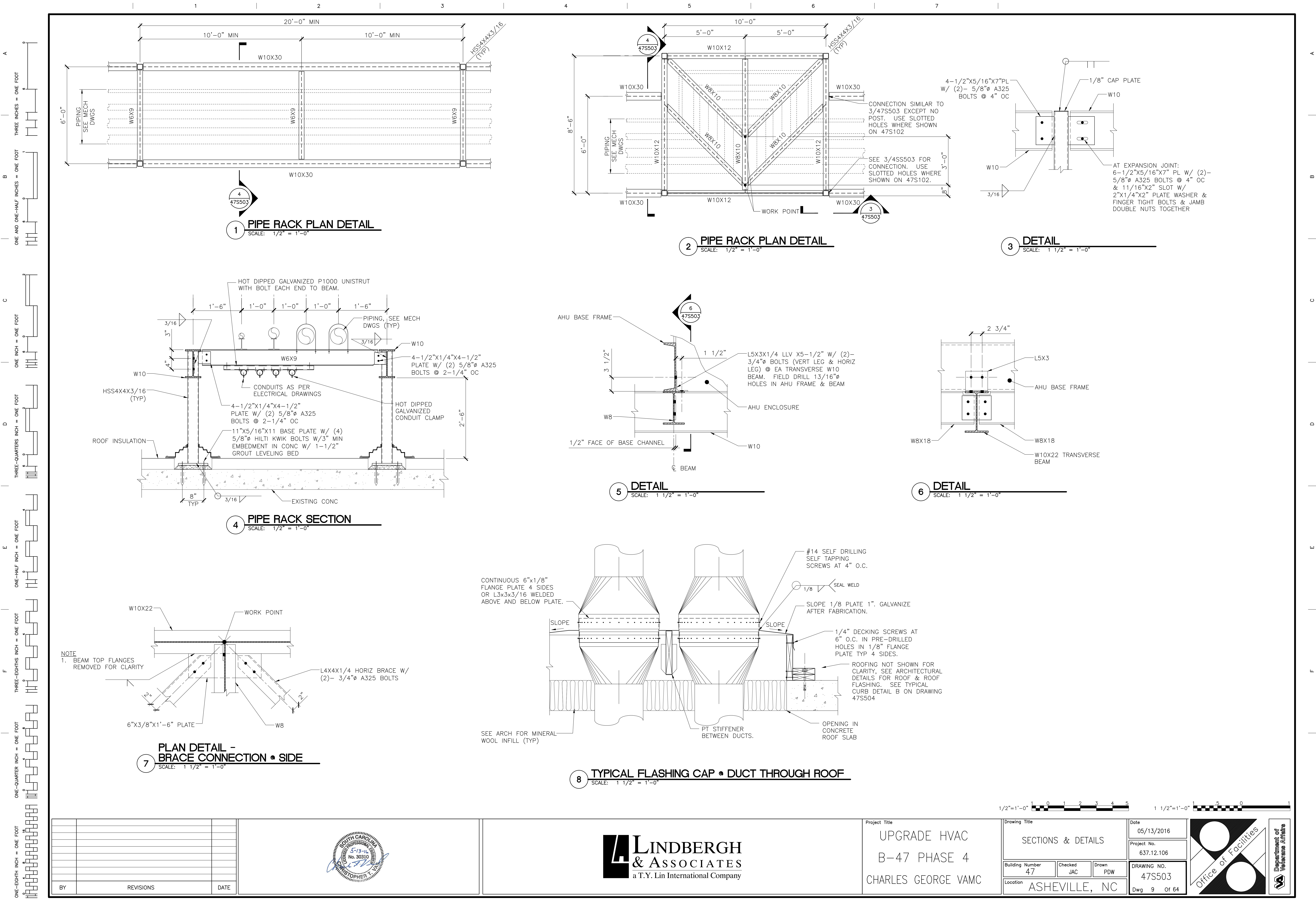
















1. CROSSOVER STAIR AND INTEGRAL LANDING LOCATIONS ARE SHOWN ON DRAWING 475102. COORDINATE FINAL LOCATION AND HEIGHT TO CLEAR FINAL MECHANICAL DUCTS AND PIPING SELECTED.
2. STAIRS SHALL BE DESIGNED BY CONTRACTORS SPECIALTY ENGINEER. SEE STRUCTURAL DRAWING 475504 FOR PROPOSED CONFIGURATION. SPECIALTY ENGINEER SHALL DETERMINE FINAL POST SPACING, MEMBER SIZE, CONNECTIONS, ATTACHMENT, WEATHERPROOFING AND FLASHING BOOTS. SUBMIT SHOP DRAWINGS SEALED BY A STRUCTURAL ENGINEER LICENSED IN NORTH CAROLINA FOR APPROVAL PRIOR TO BEGINNING FABRICATION.
3. DESIGN CROSSOVER STAIRS FOR 100 PSF MINIMUM LIVE LOAD AND FOR WIND AND SEISMIC FORCES AS INDICATED IN GENERAL STRUCTURAL NOTES SPECIFIED ON DRAWING 475001. DESIGN SHALL COMPLY WITH OSHA STANDARDS. DESIGN FOR 1,000 POUND MOVING POINT LOAD, COMPLY WITH OSHA 29 CFR 1910.24(C) IN REGARD TO PLACEMENT OF LOAD ON TREAD. IN ADDITION DESIGN SHALL COMPLY WITH ASCE 7-10 CHAPTER 13 & 29. BASE CONNECTIONS SHALL BE PIN BASE DESIGN WITH DRILLED-IN ANCHORS IN EACH BASE PLATE. DESIGN TO ACCOMMODATE FLASHING BOOT AT BASE SUPPORTS.
4. CROSSOVER STAIRS, LANDING AND FRAMING SHALL BE HOT DIPPED GALVANIZED STEEL. CHANNELS AND MISCELLANEOUS STEEL SHALL BE ASTM A36. HSS TUBES MEMBERS SHALL BE ASTM A500 GRADE B F<sub>y</sub> = 46 KSI. HSS ROUND SHALL BE ASTM A500 GRADE B F<sub>y</sub> = 42 KSI. PIPE SHALL BE ASTM A53 TYPE E.
5. DESIGN VERTICAL X-BRACING AS REQUIRED FOR STABILITY. LOCATE POST AND BRACING SO AS TO NOT INTERFERE WITH DUCTS AND PIPING.
6. COORDINATE WITH ARCHITECTURAL FOR FLASHING REQUIREMENTS AT ROOF ATTACHMENT.

BY	REVISIONS	DATE



Project Title	UPGRADE HVAC B-47 PHASE 4 CHARLES GEORGE VAMC
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Drawing Title			Date
TYPICAL DETAILS			05/13/2016
			Project No.
			637.12.106
Building Number	Checked	Drawn	DRAWING NO.
47	JAC	PDW	47S504
Location	Dwg 10 Of 64		
ASHEVILLE, NC			

