

100% SUBMITTAL

PRELIMINARY NOT FOR CONSTRUCTION
DATE: 03/18/2016

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

HOURS OF  
OPERATION

AC	AIR CONDITIONER	CFM	CUBIC FEET PER MINUTE	GOV	GOVERNMENT	REINF	REINFORCE(D), (ING)
AFF	ABOVE FINISHED FLOOR	D	DEEP/DEPTH	GOB	GYPSSUM WALL, BOARD	RM	ROOM
ALT	ALTERNATE	DTL	DETAIL	HT	HEIGHT	RT	RIGHT
ALUM	ALUMINUM	DIA, Ø	DIAMETER	HORIZ	HORIZONTAL	SCH	SCHEDULE
ARCH	ARCHITECTURAL	DHW	DOMESTIC HOT WATER	INS	INSULATION	SEQ	SEQUENCE
ACBM	ASBESTOS CONTAINING BUILDING MATERIALS	DR	DOR	INSUL	INSULATION/INSULATING	SHT	SHEET
		DWG	DRAWING	INT	INTERIOR	SIM	SIMILAR
BOT	BOTTOM	EA	EACH	JT	JOINT	SPEC	SPECIFICATION(S)
BTVC	BULK TANK	ELEC	ELECTRIC(AL)	LAV	LAVATORY	SQ	SQUARE
BLDG	BUILDING	LT	ELECTRIC WATER COOLER	LEFT	LEFT	STL	STEEL
CLG	CEILING	ELEV	ELEVATION/ELEVATOR	MFR	MANUFACTURE(R)	STRUC	STRUCTURAL
Ø	CENTER LINE	EM	EMERGENCY	MAX	MAXIMUM	SUSP	SUSPENDED
CER	CERAMIC	EQT	EQUIPMENT	MTL	METAL	THK	THICK(NESS)
CIR	CIRCUIT	EXIST	EXISTING	MECH	MECHANICAL	TRANSV	TRANSVERSE
CMU	CONCRETE MASONRY UNIT	EXP	EXPANSION	MIN	MINIMUM	TYPS	TYPICAL
CO	CONTRACTING OFFICER	EXT	EXTERIOR	N/A	NOT APPLICABLE	UG	UNDERGROUND
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE	FT	FEET	N	NORTH	VERT	VERTICAL
		FUR	FURRING	NOT IN CONTRACT	NOT IN CONTRACT	VB	VAPOR BARRIER
CW	COLD WATER	FLUOR	FLUORESCENT	NCS	NOT TO SCALE	VCT	VINYL COMPOSITE TILE
COL	COLUMN	GA	GAUGE	N	NUMBER	WC	WATER CLOSURE
CONC	CONCRETE	GALV	GALVANIZED	OC	ON CENTER(S)	W/	WITH
CONT	CONTINUOUS, CONTINUE	GR	GRADE/GRADING	OP	OPPOSITE	W/O	WITHOUT
CU	CUBIC	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.

"CONFIDENTIAL"

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

# UPGRADE HVAC, B-47 PHASE 4

## BLDG NO. 47      PROJECT NO. 637-12-106

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## GENERAL NOTES

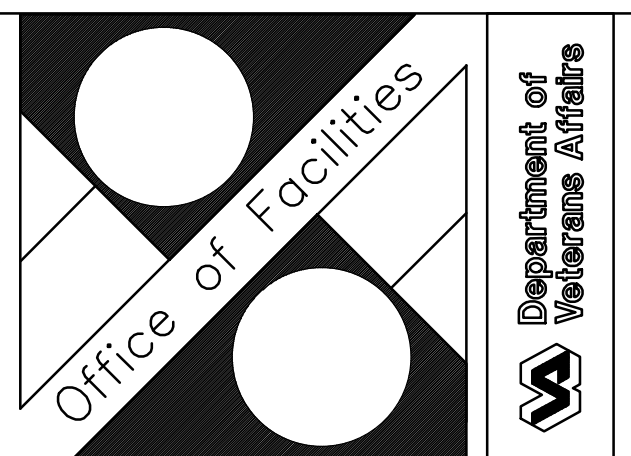
- |   |   |
|---|---|
| 1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. SCHEDULE ON-SITE INSPECTIONS WITH THE PROJECT COTR.  | 15. CONTRACTOR SHALL MAINTAIN DUST CONTROL AT ALL TIMES. CONTRACTOR SHALL USE "STICKY MATS" OUTSIDE EACH WORK AREA, AND SHALL ERECT DUST BARRIERS, TO MINIMIZE DUST/DIRT SPREADING/TRACKING 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 PACER 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 VAMCO

Drawing Title			Date
COVER SHEET			03/18/2016
			Project No. 637.12.106
Building Number 47	Checked DLB	Drawn ECB	DRAWING NO. 47G1001  Dwg 1 Of 64
Location ASHEVILLE, NC			



1

2

3

4

5

6

7

STRUCTURAL ABBREVIATIONS:

AB  
ADD'L  
ACI  
AFF  
AISC  
AL  
ANSI  
ASTM  
AWS  
APPROX  
ARCH B  
B  
B/EL  
BFF  
BLDG  
BOT  
BRG  
(C)  
CJ  
CSJ  
CL  
CLR  
CMU  
COL  
CONC  
CONT  
DET  
DIA  
DIM  
DL  
DWG  
DWL  
EA  
EF  
EJ  
ELEC  
ELEV  
EMBED  
EOS  
EQUIP  
EW  
EXT  
FD  
FFE  
FLR  
FO  
FS  
FT  
FV  
GALV  
GS  
HP  
HORIZ  
HSS  
IBC  
IN  
KIP  
K/FT  
KSF  
L  
LBS  
LBW  
LL  
LLV  
LP  
MAT'L  
MAX  
MECH  
MFG  
MIN  
MISC  
MPH  
MTL  
MWFRS  
N  
NIC  
NO  
#  
NS  
NTS  
OC  
PCF  
PL or PL  
PLF  
PSF  
REF  
REINF  
REQ'D  
REV  
STN STL  
SCHD  
SECT  
SF  
SIM  
SLV  
SP  
STD STL  
STRUCT  
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T  
T/  
T/ELEV  
T&B  
TYP  
UON  
VERT  
W  
W#  
W/  
W/O  
WP

ANCHOR BOLT  
ADDITIONAL  
AMERICAN CONCRETE INSTITUTE  
ABOVE FINISH FLOOR  
AMERICAN INSTITUTE OF STEEL CONSTRUCTION  
ALUMINUM  
AMERICAN NATIONAL STANDARD INSTITUTE  
AMERICAN SOCIETY FOR TESTING AND MATERIALS  
AMERICAN WELDING SOCIETY  
APPROXIMATE  
ARCHITECTURAL BOTTOM  
BOTTOM  
BOTTOM ELEVATION  
BELOW FINISH FLOOR  
BUILDING  
BOTTOM  
BEARING  
COMPRESSION  
CONTROL JOINT  
CONSTRUCTION JOINT  
CENTER LINE  
CLEAR  
CONCRETE MASONRY UNIT  
COLUMN  
CONCRETE  
CONTINUOUS  
DETAIL  
DIAMETER  
DIMENSION  
DEAD LOAD  
DRAWING  
DOWEL  
EACH  
EACH FACE  
EXPANSION JOINT  
ELECTRICAL  
ELEVATION  
EMBEDMENT  
EDGE OF SLAB  
EQUIPMENT  
EACH WAY  
EXTERIOR  
FLOOR DRAIN  
FINISH FLOOR ELEVATION  
FLOOR  
FACE OF  
FAR SIDE  
FEET  
FIELD VERIFY  
GALVANIZED  
GALVANIZED STEEL  
HIGH POINT  
HORIZONTAL  
HOLLOW STRUCTURAL SECTION  
INTERNATIONAL BUILDING CODE  
INCHES  
KIPS (1 KIP = 1,000 LB)  
KIPS PER FOOT  
KIPS PER SQUARE FOOT  
LENGTH  
POUNDS  
LOAD BEARING WALL  
LIVE LOAD  
LONG LEG VERTICAL  
LOW POINT  
MATERIAL  
MAXIMUM  
MECHANICAL  
MANUFACTURER  
MINIMUM  
MISCELLANEOUS  
MILES PER HOUR  
METAL  
MAIN WIND FORCE RESISTING SYSTEM  
NORTH  
NOT IN CONTRACT  
NUMBER  
NUMBER SYMBOL FOR REBAR SIZE  
NEAR SIDE  
NOT TO SCALE  
ON CENTER  
POUNDS PER CUBIC FOOT  
PLATE  
POUNDS PER LINEAR FOOT  
POUNDS PER SQUARE FOOT  
REFERENCE  
REINFORCED  
REQUIRED  
REVISION  
STAINLESS STEEL  
SCHEDULE  
SECTION  
SQUARE FEET  
SIMILAR  
SHORT LEG VERTICAL  
SPACES  
STANDARD STEEL  
STRUCTURAL  
TENSION  
TOP  
TOP OF  
TOP ELEVATION  
TOP AND BOTTOM  
TYPICAL  
UNLESS OTHERWISE NOTED  
VERTICAL  
WIDTH  
WIDE FLANGE (# INDICATES SIZE)  
WITH  
WITHOUT  
WORK POINT

STRUCTURAL GENERAL NOTES

THE FOLLOWING NOTES APPLY, UNLESS OTHERWISE NOTED OR SHOWN ON PLANS.

1. SECTIONS AND DETAILS SHOWN ON DRAWINGS ARE TYPICAL. USE SIMILAR CONSTRUCTION AT LOCATIONS NOT SPECIFICALLY DETAILED.

2. EXAMINE AND COMPARE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

3. PROTECTION OF EXISTING STRUCTURES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

4. ADEQUATE TEMPORARY BRACING OF CONSTRUCTION ELEMENTS SHALL BE PROVIDED FOR FOUNDATIONS, ABOVE GRADE WALLS, STRUCTURAL STEEL AND OTHER STRUCTURAL SYSTEMS, FOR WIND AND/OR CONSTRUCTION LOADS. BRACING SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION OPERATIONS PRIOR TO STRUCTURAL ELEMENTS REACHING THEIR SPECIFIED DESIGN STRENGTH AND/OR REACHING THEIR COMPLETED FORM AS SHOWN ON THE CONTRACT DRAWINGS. DESIGN AND MAINTENANCE OF SAID BRACING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

5. INFORMATION ON 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.

6. INSTALL MATERIALS PER MANUFACTURERS' RECOMMENDATIONS AND SPECIFICATIONS.

GENERAL STRUCTURAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE 2014 VA STRUCTURAL DESIGN MANUAL & INTERNATIONAL BUILDING CODE (IBC) 2012 EDITION.

2. DESIGN CRITERIA

A. BUILDING OCCUPANCY CATEGORY: IV (PER ASCE 7-10 TABLE 1-1)

B. FLOOR LIVE LOADS: (ASCE 7-10 TABLE 4-1)

GRATED PLATFORM 100 PSF

C. ROOF LIVE LOADS: (ASCE 7-10 TABLE 4-1)

TYPICAL UNLESS NOTED OTHERWISE 20 PSF

D. SNOW LOADS: (ASCE 7-10, CHAPTER 7)

GROUND SNOW LOAD:  $P_g = 15$  PSF

FLAT ROOF SNOW LOAD:  $P_f = 18$  PSF

SNOW EXPOSURE FACTOR:  $C_e = 0.9$

SNOW LOAD IMPORTANCE FACTOR  $I = 1.2$

THERMAL FACTOR:  $C_t = 1.0$

E. WIND LOADS: (ASCE 7-10, CHAPTER 26)

MEAN ROOF HEIGHT = 75 FEET

MWFRS: BASIC WIND SPEED (3 SECOND GUST): 90 MPH

COMPONENTS AND CLADDING: (ASCE 7-05 FIG 6-14A)

EXPOSURE CATEGORY: C

ENCLOSURE CATEGORY: PARTIALLY ENCLOSED

IMPORTANCE FACTOR ( $I_w$ ): 1.15

BASE SHEAR ON AHU FRAME  $W_n/s: 12.12K$

$W_e/w: 4.66K$

F. SEISMIC LOADS: (ASCE 7-10 CHAPTER 11 & 13)

ANALYSIS PROCEDURE: EQUIVALENT LATERAL-FORCE

MAPPED ACCELERATIONS:  $S_s = 0.302g$   $S_1 = 0.107g$

SITE CLASS: D (ASSUMED)

SITE COEFFICIENTS:  $F_a = 1.6$   $F_v = 2.4$

MAXIMUM ACCELERATIONS:  $S_{ms} = 0.471$   $S_{m1} = 0.254$

DESIGN SPECTRAL RESPONSE ACCELERATIONS AT 5% DAMPENING,  $S_{ps} = 0.314$   $S_{p1} = 0.169$

IMPORTANCE FACTOR ( $I_e$ ): 1.5

SEISMIC DESIGN CATEGORY D

COMPONENT AMPLIFICATION FACTOR:  $a_p = 2.5$

COMPONENT OPERATING WEIGHT:  $W_p = 19.6K$

COMPONENT RESPONSE MODIFICATION FACTOR:  $R_p = 6.0$

SEISMIC DESIGN FORCE ON AHU FRAME:  $F_p = 3.5K$

STRUCTURAL STEEL NOTES

1. FABRICATE AND ERECT STRUCTURAL STEEL SYSTEMS IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

2. STEEL MEMBERS HAVE BEEN PROPORTIONED UTILIZING ALLOWABLE STRESS DESIGN (ASD) METHODS AS PRESCRIBED BY AISC.

3. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH "DETAILING FOR STEEL CONSTRUCTION (AISC)" AND WHERE REQUIRED, DESIGNED IN ACCORDANCE WITH CITED REFERENCES.

4. STRUCTURAL STEEL SHALL BE NEW AND CONFORM TO:

A. UNLESS OTHERWISE NOTED

ASTM A992 (Fy=50 KSI)

B. HOLLOW STRUCTURAL SECTIONS

ROUND

ASTM A500 GRADE B (Fy=42 KSI)

SQUARE OR RECTANGULAR

ASTM A500 GRADE B (Fy=46 KSI)

C. MISC. STRUCTURAL SHAPES & CONNECTIONS

ASTM A36 (Fy=36 KSI)

D. ANCHOR BOLTS

ASTM A36 OR F1554

E. HIGH STRENGTH BOLTS

ASTM A325N

5. WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS. D1.1, AND SHALL BE PERFORMED BY APPROVED, CERTIFIED PERSONS.

6. WELDED CONNECTIONS SHALL UTILIZE E70XX ELECTRODES.

7. WELDS SHALL DEVELOP THE FULL STRENGTH OF THE MATERIALS BEING WELDED, UNLESS NOTED OTHERWISE, EXCEPT THAT FILLET WELDS SHALL BE A MINIMUM OF 1/4" UON.

8. ANCHOR BOLTS, LEVELING PLATES OR BEARING PLATES SHALL BE LOCATED AND BUILT INTO CONNECTING WORK, PRESET BY TEMPLATES, AND SET IN FULL BEDS OF NON-SHRINK GROUT.

9. PRINCIPAL STRUCTURAL BOLTED CONNECTIONS (BEAM-BEAM, BEAM-GIRDER, BEAM OR GIRDER TO COLUMN) SHALL BE MADE USING 3/4" DIAMETER MINIMUM ASTM A325 BOLTS IN BEARING CONNECTIONS.

10. A MINIMUM OF TWO (2) BOLTS SHALL BE UTILIZED AT BOLTED CONNECTIONS.

11. FIELD CUTTING OF STRUCTURAL FRAMING AND/OR FIELD MODIFICATIONS OF STRUCTURAL FRAMING SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY CONTRACTING OFFICER FOR EACH SPECIFIC CASE.

12. THE CONTRACTOR SHALL FURNISH & INSTALL ALL PLATES, CLIP ANGLES, CONNECTION MATERIALS, ETC. AS REQUIRED FOR COMPLETION OF THE STRUCTURE, EVEN IF SUCH ITEMS ARE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.

13. ALL STRUCTURAL STEEL MEMBERS SUPPORTING ROOF TOP AHU SHALL BE HOT DIP GALVANIZED PER ASTM A123. ALL FIELD WELDS OR DAMAGED AREAS OF GALVANIZED STEEL SHALL BE COATED WITH ZINC-RICH PAINT PER ASTM A 780.

PREFABRICATED CROSS-OVER STAIRS NOTES

1. CROSS-OVER STAIRS SHALL BE DESIGNED BY THE FABRICATOR IN ACCORDANCE WITH THESE PLANS.

2. CROSS-OVER STAIRS SHALL BE G90 HOT DIPPED GALVANIZED STEEL.

3. CROSS-OVER STAIRS SHALL HAVE 1-1/2 INCH DIAMETER G90 HOT DIPPED GALVANIZED STEEL HANDRAIL WITH A TOP RAIL HEIGHT OF 34 INCHES AND A MID-RAIL HEIGHT OF 19 INCHES IN ACCORDANCE WITH OSHA REQUIREMENTS.

4. CROSS-OVER PLATFORMS SHALL HAVE G90 HDG STEEL HANDRAIL WITH A TOP RAIL HEIGHT OF 42 INCHES AND A 4 INCH TOE PLATE.

5. HANDRAIL POSTS SHALL BE 1-1/2 INCH DIAMETER AND BE SPACED NO MORE THAN 8 FEET ON CENTER.

6. CROSS-OVER STAIRS SHALL HAVE A MINIMUM OF 8 INCHES TO A MAXIMUM OF 11 INCHES TREAD DEPTH.

7. CROSS-OVER STAIRS SHALL HAVE A MINIMUM OF 6-1/2 INCHES TO A MAXIMUM OF 9-1/2 INCHES RISER HEIGHT.

8. RISER HEIGHT AND TREAD DEPTH SHALL BE UNIFORM WITHIN EACH SET OF STAIRS AND SHALL CREATE AN ANGLE BETWEEN 30 DEGREES AND 50 DEGREES PER OSHA REQUIREMENTS.

9. CROSS-OVER STAIRS SHALL HAVE G90 HDG WELDED BEARING BAR STEEL GRATING WITH CHECKERED PLATE NOSING.

COLD-FORMED STEEL FRAMING NOTES (FOR INTERIOR WALLS):

1. ALL STUDS SHALL BE SQUARELY SEATED IN THE UPPER AND LOWER TRACKS WITH THE STUD WEB AND FLANGE ABUTTING THE TRACKS. STUDS SHALL BE ATTACHED AT THE UPPER AND LOWER TRACKS WITH TWO FASTENERS AT EACH UPPER AND LOWER LOCATION. THIS INCLUDES LOCATIONS OF DOUBLE AND GANGED STUDS SEATED INTO THE TRACKS AND RUNNERS TO ACCEPT AND DELIVER LOADS THRU BEARING OF THE STUDS.

2. CONTRACTOR SHALL PROVIDE STEEL RUNNERS/TRACKS, BLOCKING, LINTELS, CLIP ANGLES, BRACING REINFORCEMENTS, FASTENERS AND ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER FOR THE PARTICULAR APPLICATION TO PROVIDE A COMPLETE STRUCTURAL SYSTEM.

3. ALL METAL FRAMING COMPONENTS SHALL BE FABRICATED OF STRUCTURAL QUALITY SHEET STEEL WITH A MINIMUM YIELD POINT OF 33,000 PSI.

4. DUCT PENETRATION ENCLOSURE (WALLS) SHALL USE:

4.1. WALL STUDS: 400S125-33

4.2. TOP AND BOTTOM WALL TRACK: 400T125-33

4.3. CONNECTIONS:

4.3.1. WALL STUD TO TOP TRACK: #8 SCREW EA FLANGE OF STUD TRACK TO CONC: HILTI PIN X-U32@16" O.C.

5. WALL STUDS SHALL BE SPACED AT 16" OC.

6. BRACE TOP OF PARTITION WALLS Laterally AT 8' O.C.

100% SUBMITTAL

PRELIMINARY NOT FOR CONSTRUCTION

DATE: 03/18/2016

BY

REVISIONS

DATE

LINDBERGH & ASSOCIATES

a T.Y. Lin International Company

Project Title

UPGRADE HVAC B-47 PHASE 4 CHARLES GEORGE VAMC

Drawing Title

GENERAL NOTES & ABBREVIATIONS

Date

03/18/2016

Project No.

637.12.106

Drawing No.

47S001

Dwg

2

of 64

Location

ASHEVILLE, NC

Building Number

47

Checked

JAC

Drawn

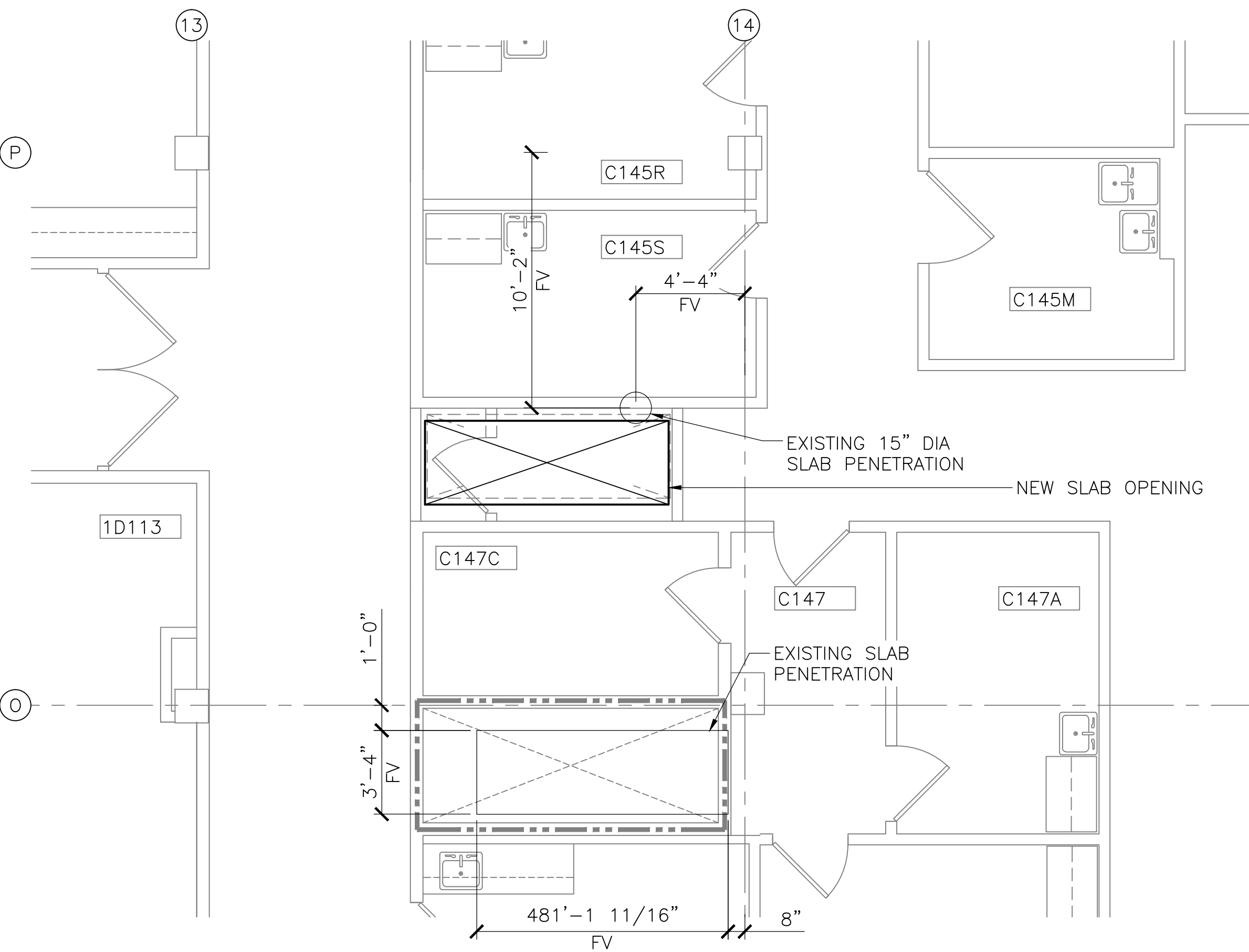
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Office of Facilities

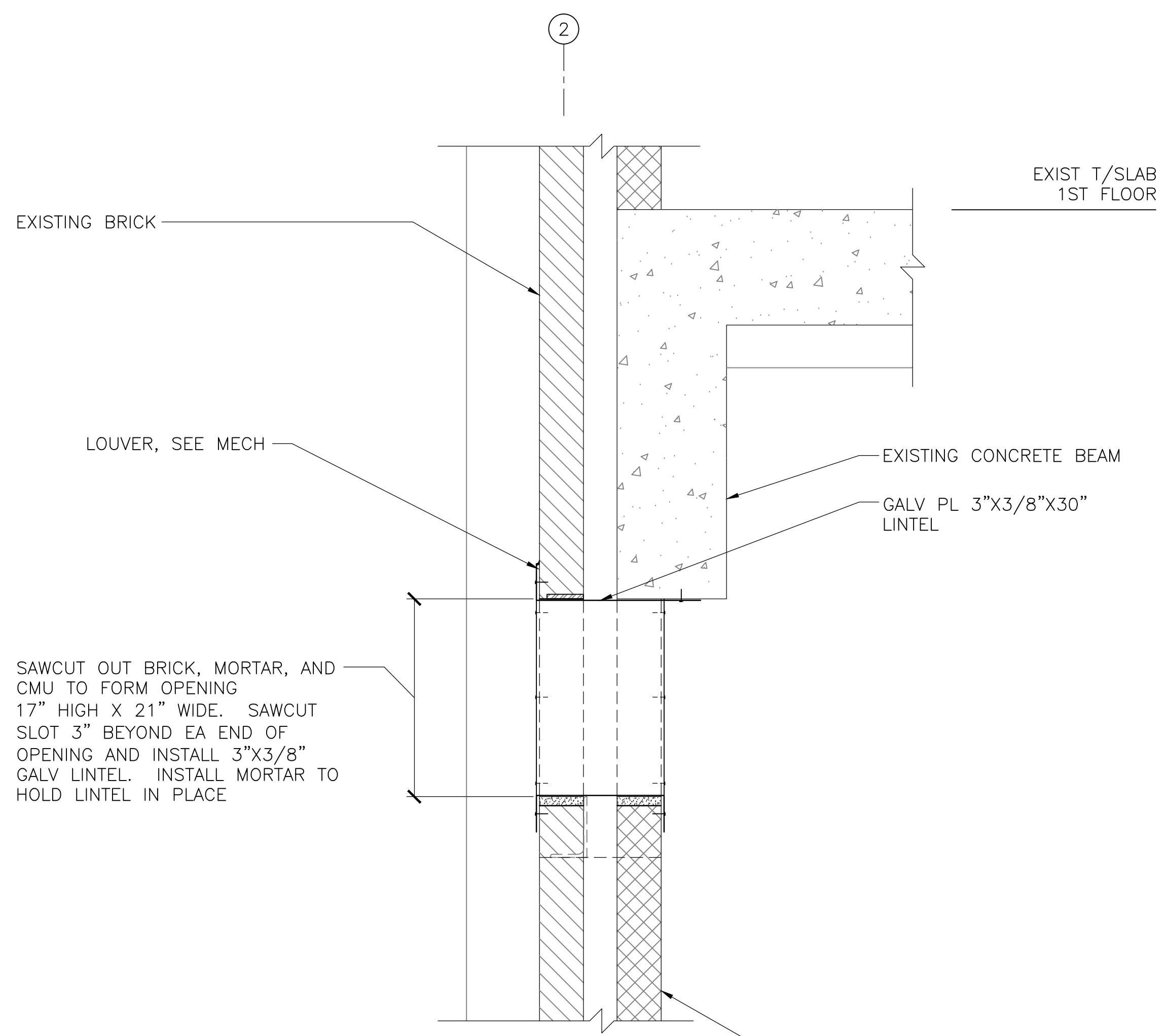
Department of Veterans Affairs



A  
THREE 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

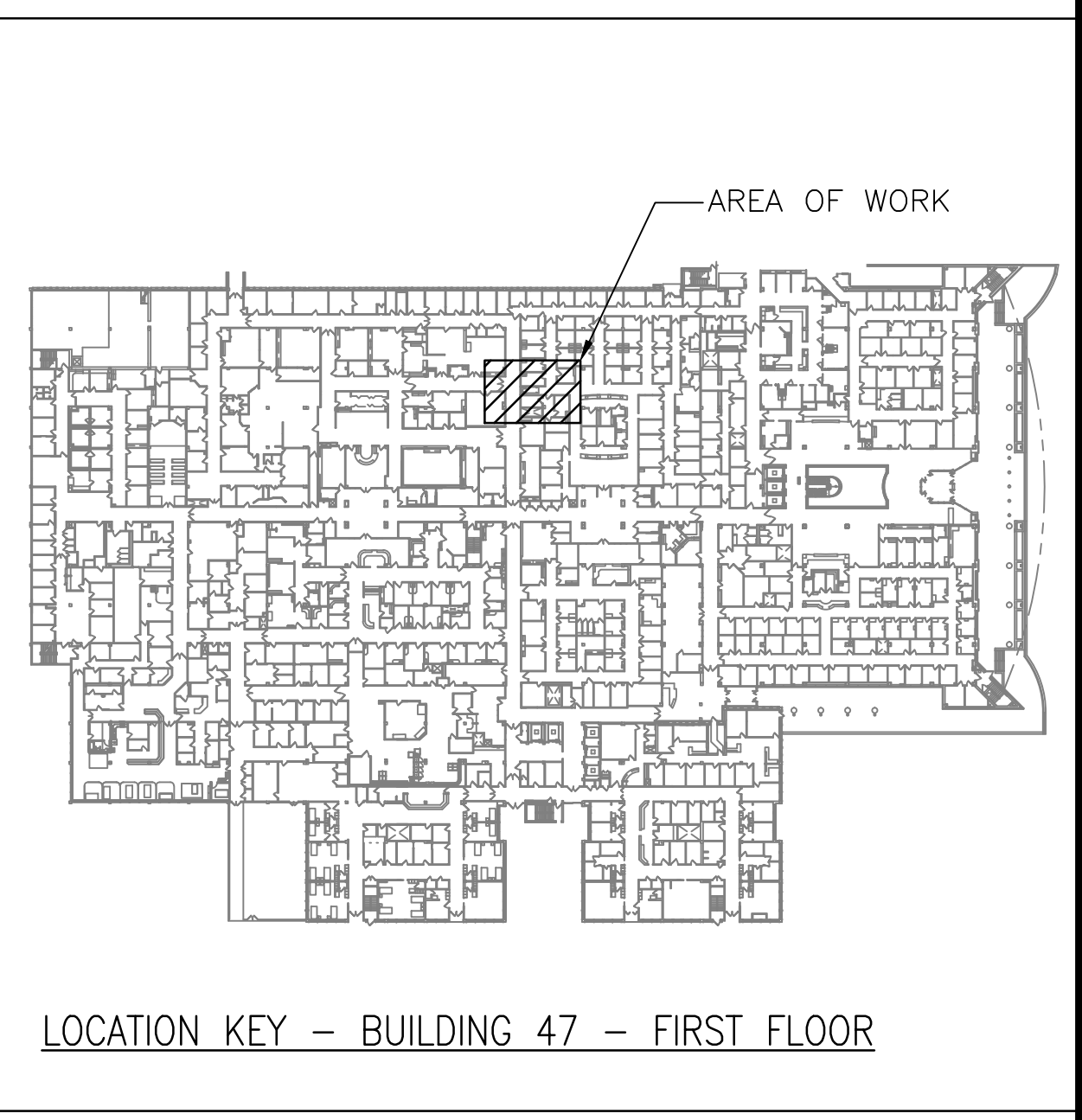
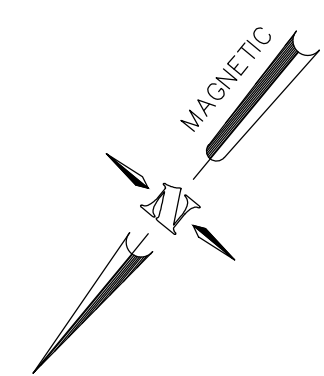


1 **ENLARGED 1ST FLOOR SLAB PLAN**  
SCALE: 1/4" = 1'-0"



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

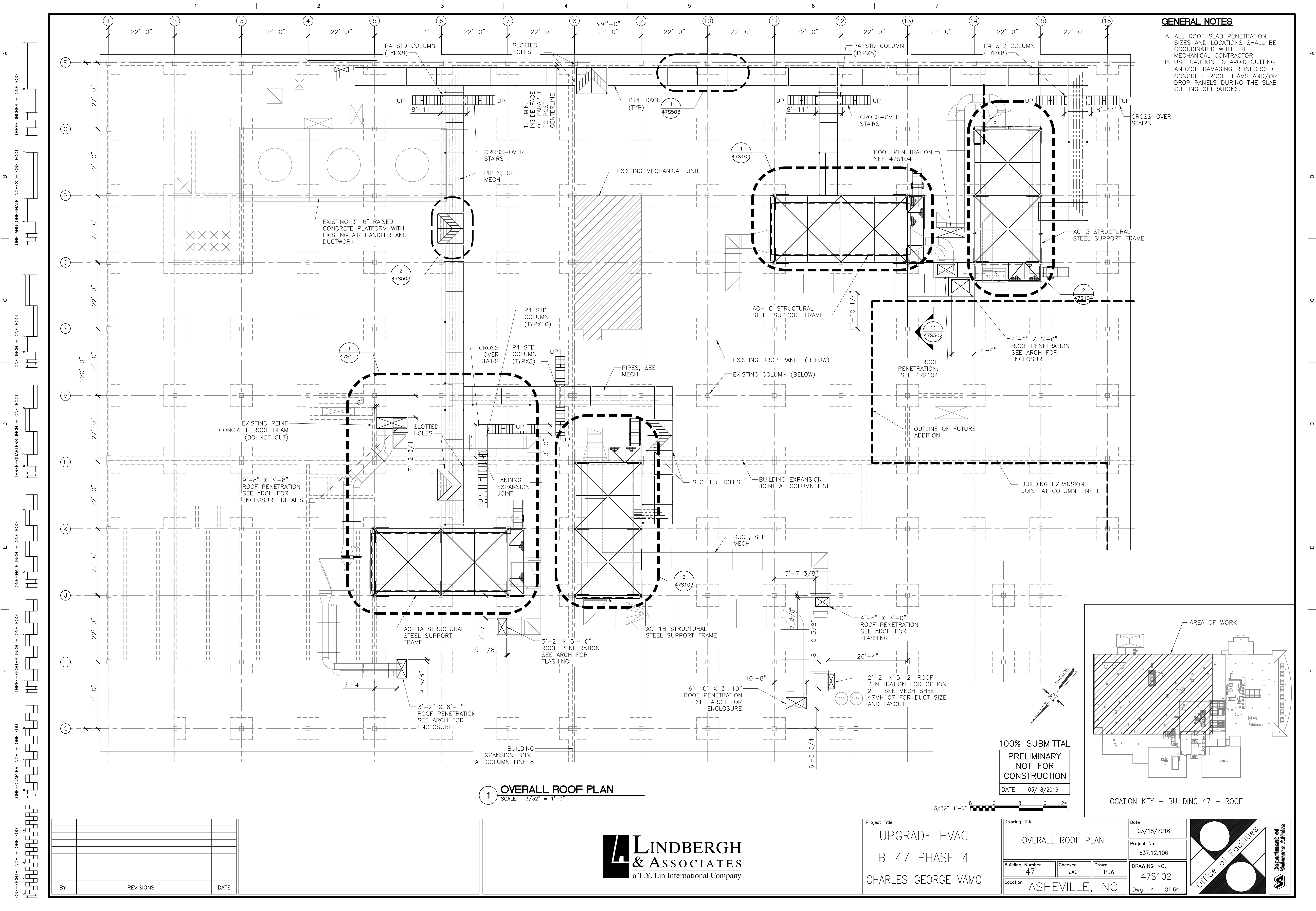
**L LINDBERGH & ASSOCIATES**  
a T.Y. Lin International Company

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 03/18/2016
Project No. 637.12.106
DRAWING NO. 47S101
Dwg 3 of 64





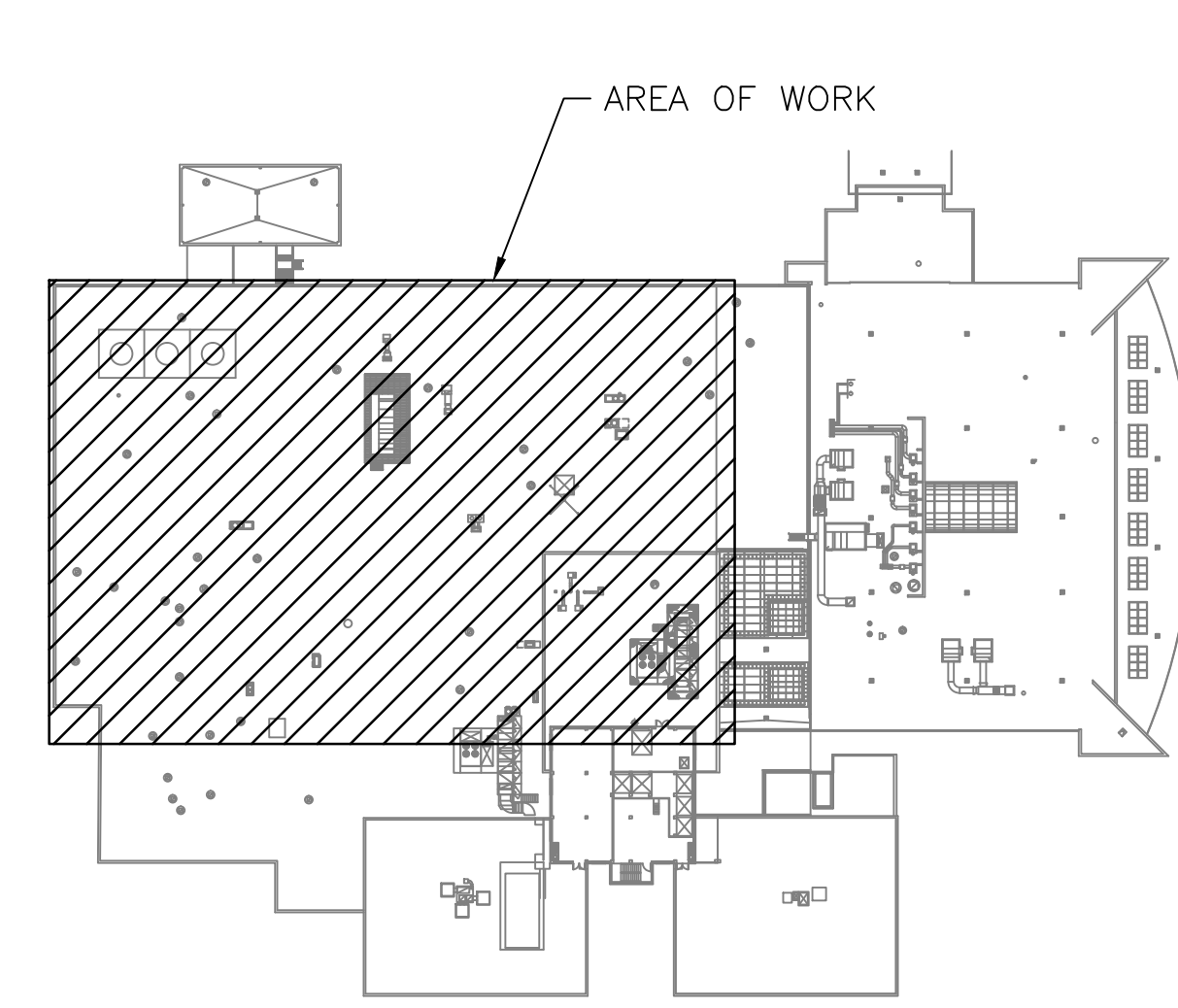
**GENERAL NOTES**

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.

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

100% SUBMITTAL  
PRELIMINARY  
NOT FOR  
CONSTRUCTION  
DATE: 03/18/2016



BY	REVISIONS	DATE

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

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  
03/18/2016

Project No.  
637.12.106

DRAWING NO.  
47S102

Dwg 4 of 64





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

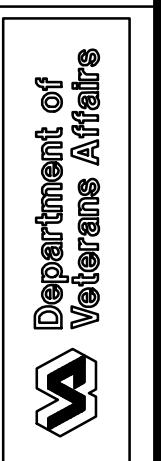


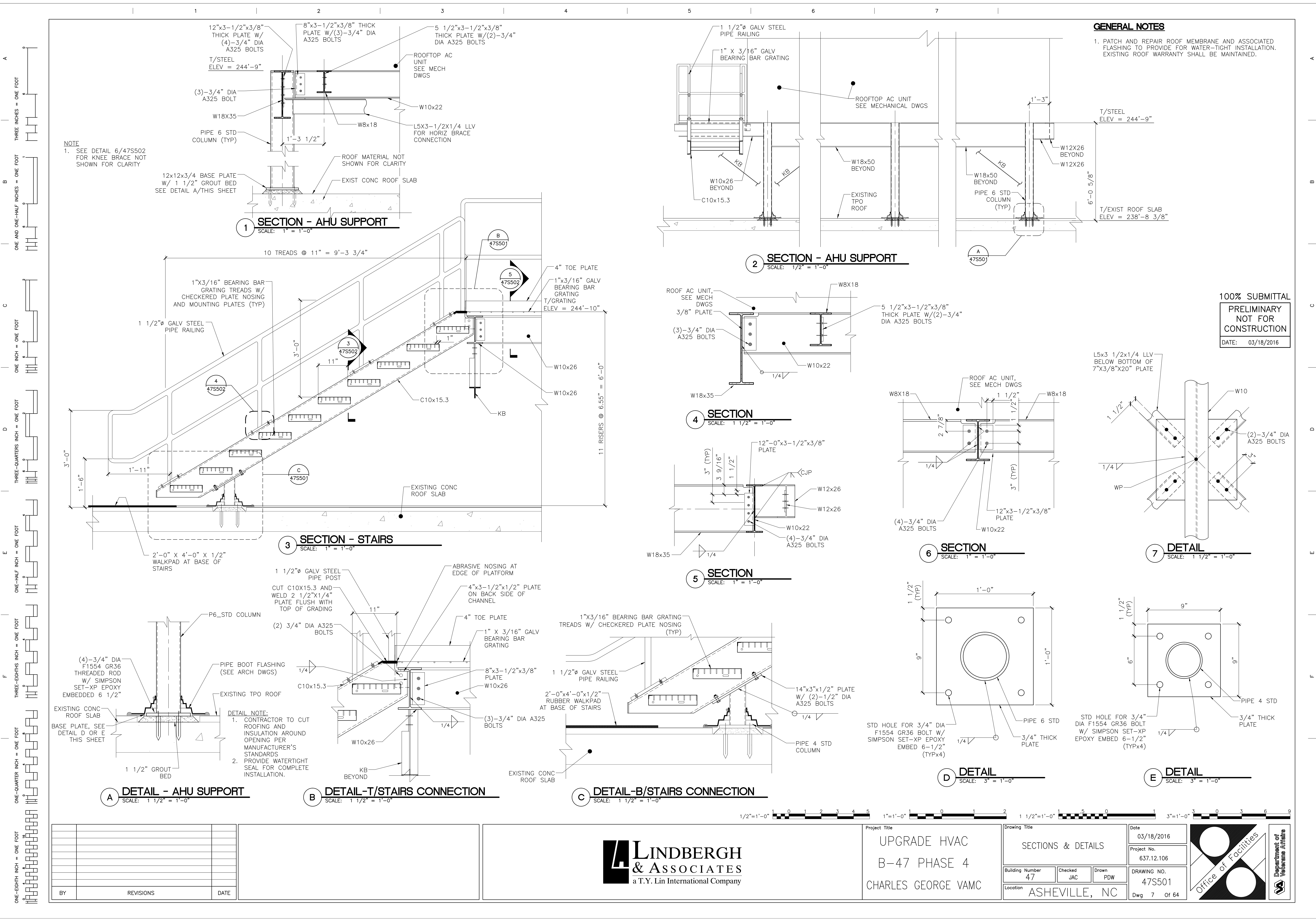
- 1/4" = 1'-0" 

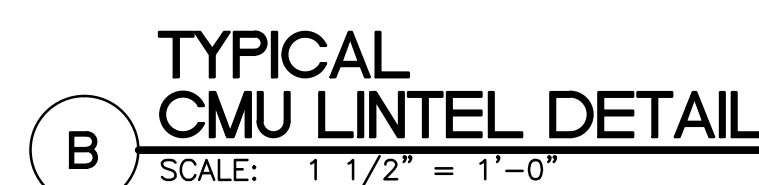
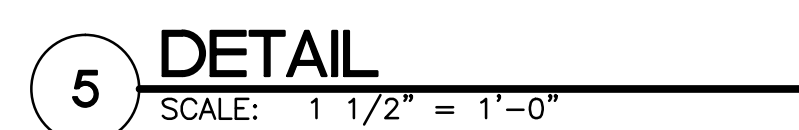
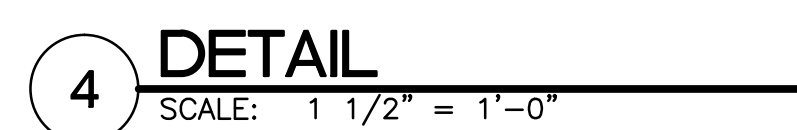
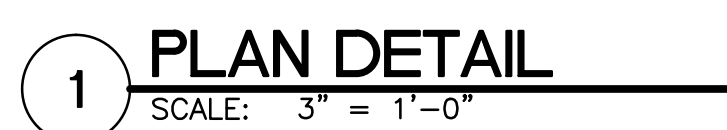


Department of  
Veterans Affairs







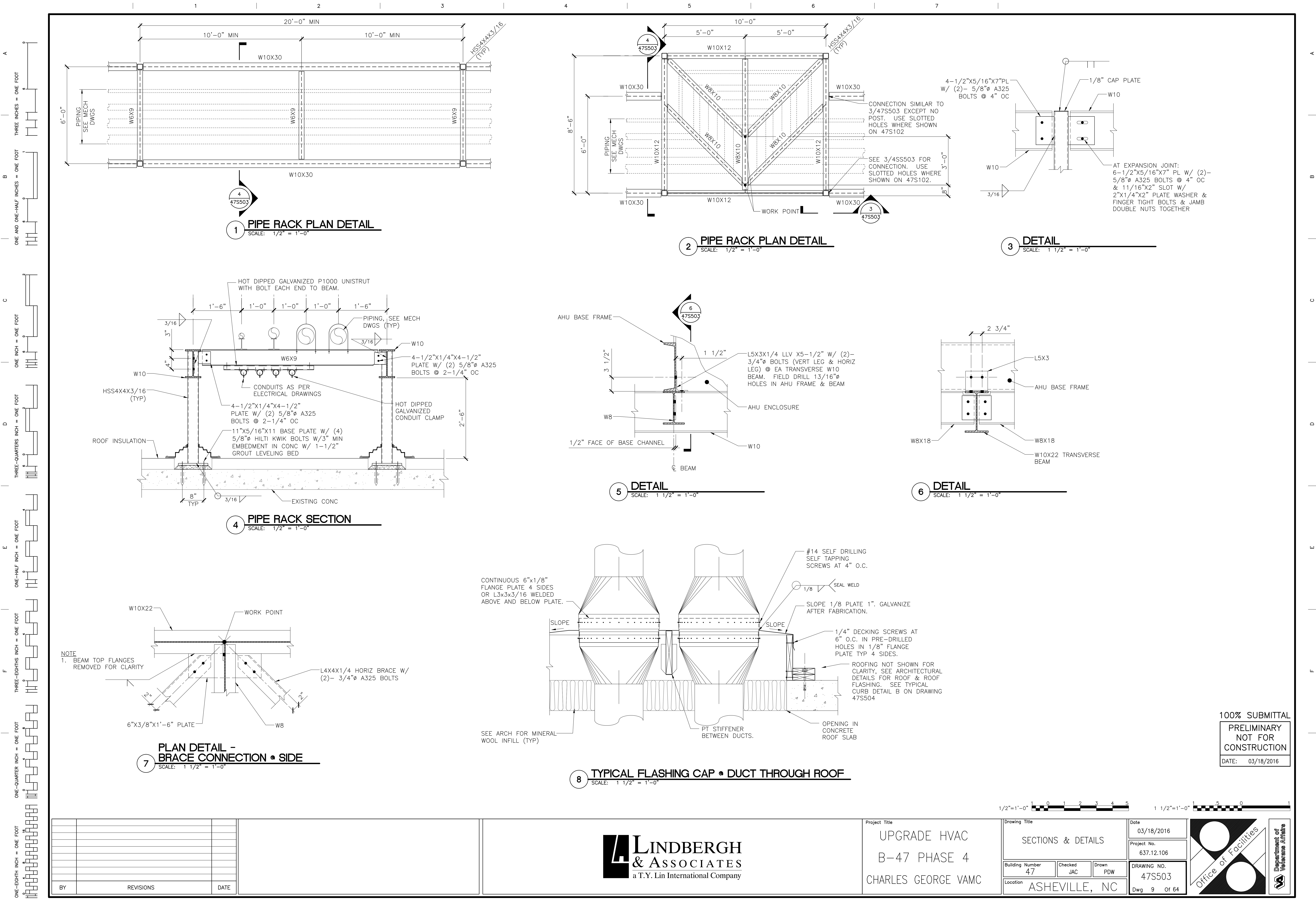


- 12 SECTION  
SCALE: 1 1/2" = 1'-0"

DATE: 03/18/2016

Dwg 8 Of







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 1000 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 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 FY = 46 KSI. HSS ROUND SHALL BE ASTM A500 GRADE B FY = 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.

BY	REVISIONS	DATE



Project Title	UPGRADE HVAC B-47 PHASE 4 CHARLES GEORGE VAMC
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Drawing Title			Date
TYPICAL DETAILS			03/18/2016
			Project No.
			637.12.106
Building Number	Checked	Drawn	DRAWING NO.
47	JAC	PDW	47S504
Location			Dwg 10 of 64
ASHEVILLE, NC			

