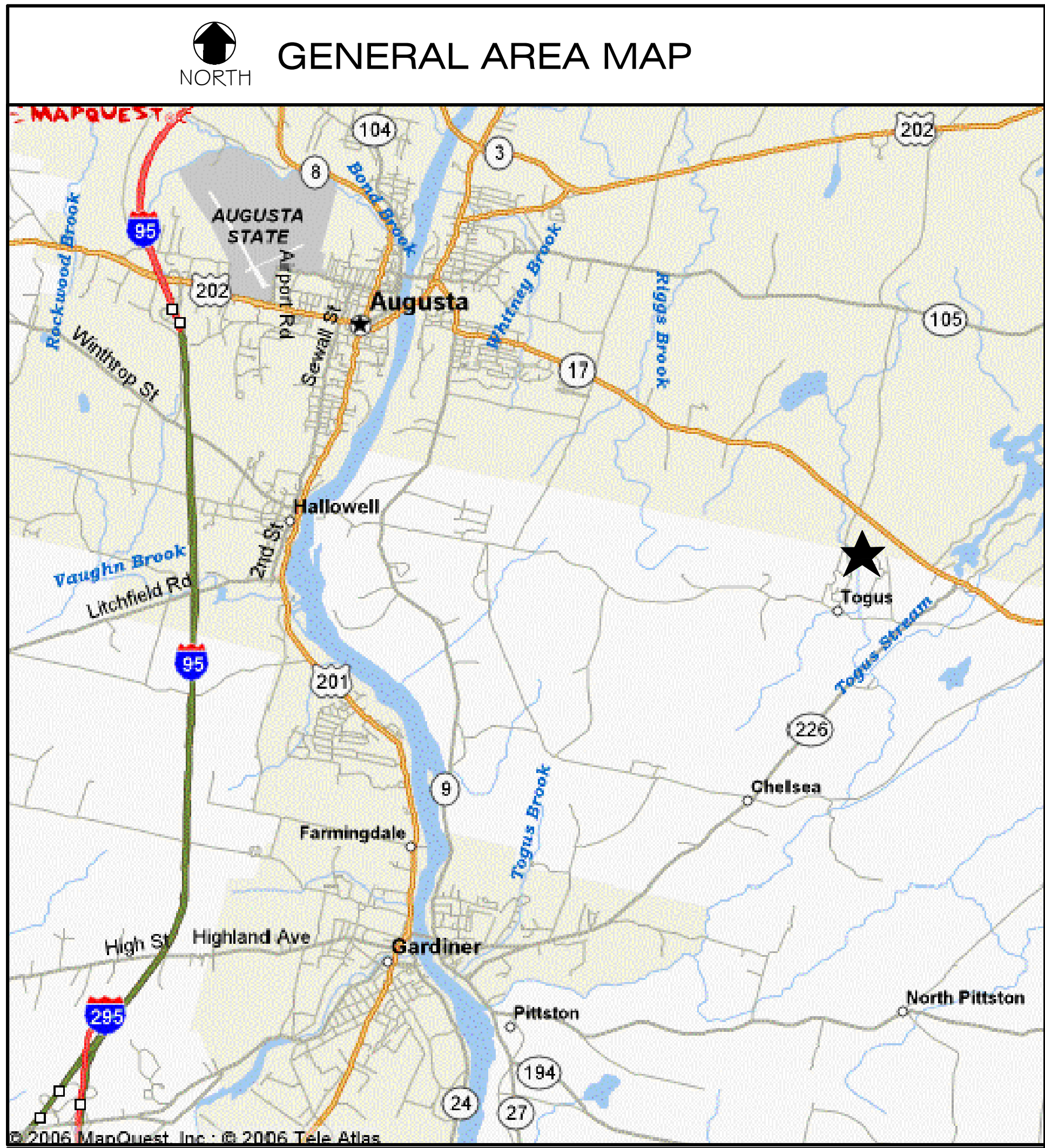
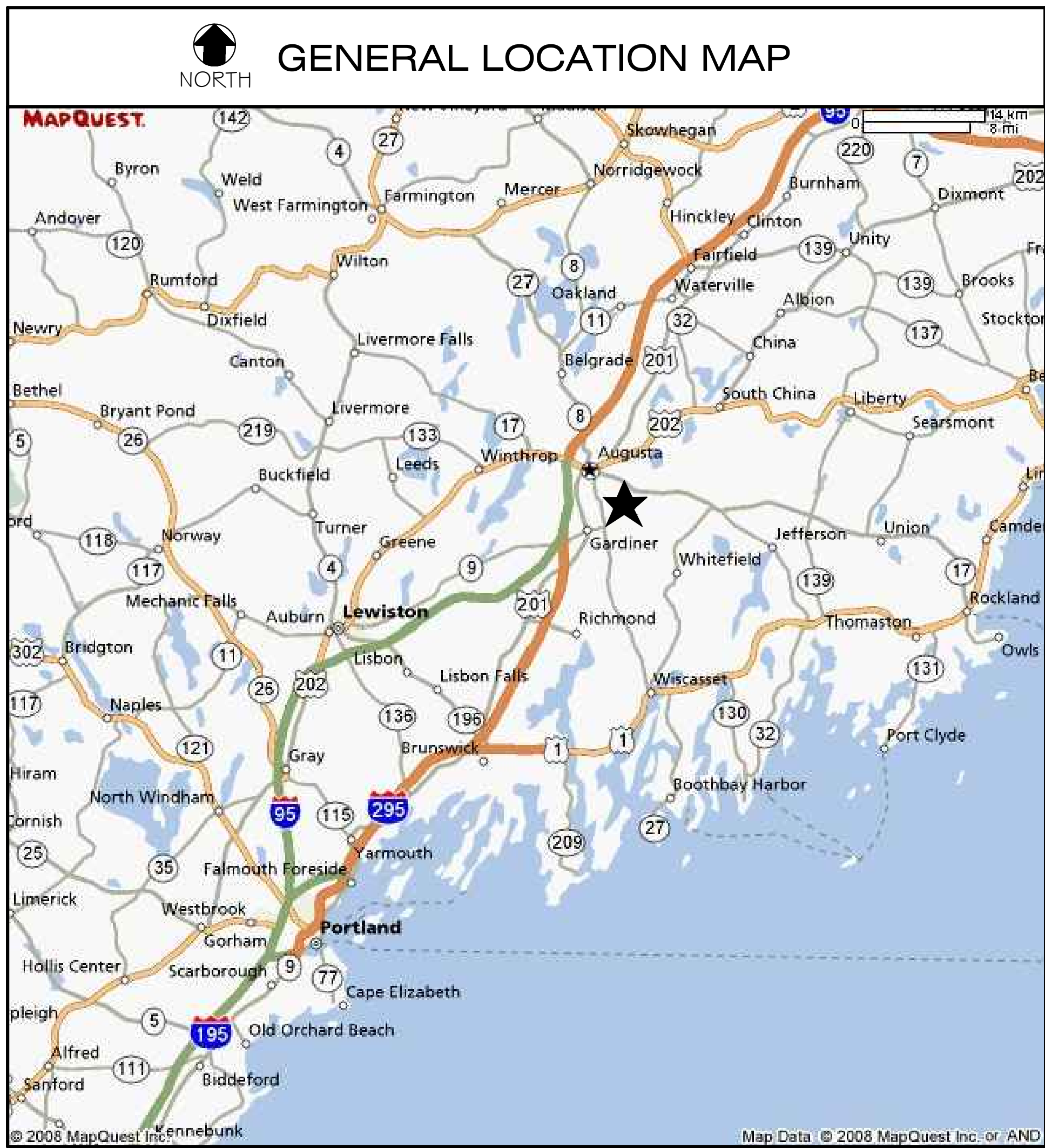




DVA PROJECT 402-10-542

CT SUITE ROOM 104 RENOVATION

BUILDING 200, 1st FLOOR

VA MAINE HEALTHCARE SYSTEM

1 VA CENTER

AUGUSTA, MAINE 04330



PROJECT TEAM:

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A-4	MEDICAL EQUIPMENT PLAN
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E-5	PENETRATION DETAILS, WIRING DETAILS, LEGEND, NOTES
E-6	PARTIAL POWER RISER DIAGRAM, PANEL SCHEDULES, NOTES
E-7	ELECTRICAL SPECIFICATIONS

ATTACHED TO THESE DOCUMENTS ARE ELEVEN (11) SHEETS (REVISION 1) OF DRAWINGS PREPARED BY TOSHIBA AMERICA MEDICAL SYSTEMS, INC. THESE DRAWINGS PROVIDE DETAILED INFORMATION CONCERNING SITE PREPARATION FOR THEIR CT SYSTEM. USE OF THESE DRAWINGS IS REQUIRED FOR REFERENCE AND FOR ADDITIONAL DETAILED INFORMATION.

ABBREVIATIONS

AFF. AL.	ABOVE FINISH FLOOR ALUMINUM	MECH. MIN.	MECHANICAL MANUFACTURER MINIMUM
B.O. BLDS. BLK.	BY OTHERS BUILDING BLOCK	MISC. M.O. MTL.	MISCELLANEOUS MASONRY OPENING METAL
C.S. C.J. C.L.S. CONT.	CORNER GUARD CONTROL JOINT CEILING CONTINUOUS	N/A N.E.C. N.T.S.	NOT APPLICABLE NATIONAL ELECTRIC CODE NOT TO SCALE
DIA. DR. D.S.	DIAMETER DOOR DOWNSPOUT	O.C. O.D. OPNS.	ON CENTER OUTSIDE DIAMETER OPENING
ELEC. ELEV. EQ. ENC. EXH. EXT.	ELECTRIC ELEVATION EQUAL EXHAUST EXTERIOR	FL. PLAS. LAM. FLYWD.	PLATE PLASTIC LAMINATE PLYWOOD
F.D. F.E. FL.	FLOOR DRAIN FIRE EXTINGUISHER FLOOR	REINF. REQ'D. REV. R.O.	REINFORCING REQUIRED REVISION ROOM ROUGH OPENING
GA. G.C. GL. GYP. BD.	GAUGE GENERAL CONTRACTOR GLASS GYPSUM BOARD	S.F. SPEC. SS. STD. STL. SUSP.	SQUARE FEET SPECIFICATION STAINLESS STEEL STANDARD STEEL SUSPENDED
H.C. HDW. H.M. HORIZ.	HANDICAP HARDWARE HOLLOW METAL HORIZONTAL	TEL. T.O.S. TYP.	TELEPHONE TOP OF STEEL TYPICAL
I.D. INSUL. INT.	INSIDE DIAMETER INSULATION INTERIOR	VERT. V.T. V.W.C.	VERTICAL VINYL TILE VINYL WALL COVERING
MATL.	MATERIAL	W/ W.W.F. WD.	WITH WELDED WIRE FABRIC WOOD

CODES

VA CODE STANDARDS

NFPA 101 - LIFE SAFETY CODE, CURRENT EDITION

INTERNATIONAL BUILDING CODE, CURRENT EDITION

NFPA NATIONAL FIRE CODES, CURRENT EDITION

INTERNATIONAL PLUMBING CODE, CURRENT EDITION

INTERNATIONAL MECHANICAL CODE, CURRENT EDITION

INTERNATIONAL ENERGY CONSERVATION CODE, CURRENT EDITION

GUIDELINES FOR DESIGN & CONSTRUCTION OF HOSPITALS AND HEALTH CARE FACILITIES, 2010 EDITION A.I.A.

NFPA - NATIONAL ELECTRIC CODE, CURRENT EDITION

UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) WITH VA SUPPLEMENT FS-12-13, CURRENT EDITION

SEISMIC CATEGORY PER H-12-2 "MODERATE LOW", AUGUST 2013

NOTE:

DESIGNS SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF NFPA 101 AND REFERENCED DOCUMENTS. DESIGN FEATURES NOT ADDRESSED BY NFPA 101 OR DOCUMENTS REFERENCED THEREIN SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE IBC. FOR DESIGN FEATURES THAT ARE ADDRESSED BY BOTH THE IBC AS WELL AS NFPA 101 OR A DOCUMENT REFERENCED BY NFPA 101, THE REQUIREMENTS OF NFPA 101 OR THE DOCUMENT REFERENCED BY NFPA 101 SHALL BE USED EXCLUSIVELY (THIS APPLIES EVEN IF THE IBC REQUIREMENTS ARE DIFFERENT).

DESIGN CRITERIA

OCCUPANCY CLASSIFICATION - INSTITUTIONAL GROUP 1-2 (HOSPITAL)

CONSTRUCTION TYPE - TYPE I - PROTECTED, AUTOMATIC SPRINKLER SYSTEM, MULTI-STORY

MAXIMUM TRAVEL DISTANCE TO AN EXIT - 200 FEET

MAXIMUM DEAD END CORRIDOR LENGTH - 20 FEET

MINIMUM OCCUPANT LOAD: NO CHANGES

MEANS OF EGRESS: NO CHANGES

EXIT WIDTH REQUIRED: NO CHANGES

NOTE:

NO ADDITIONAL SQUARE FOOTAGE IS BEING ADDED
NO ADDITIONAL BEDS ARE BEING ADDED
OCCUPANCY CLASSIFICATION IS NOT BEING CHANGED
HAZARD RATING IS NOT BEING CHANGED
SMOKE AND FIRE ZONES ARE NOT BEING CHANGED OR EFFECTED

PERMITTING

TOSUS VA MEDICAL CENTER
KAREN H. AINSWORTH, P.E.
1 VA CENTER
AUGUSTA, ME 04330
PHONE (207) 623-8411 EXT. 5156
CELL (207) 530-0833

SCOPE OF WORK

THE GENERAL SCOPE OF WORK INCLUDES ALL GENERAL TRADES, PLUMBING, MECHANICAL AND ELECTRICAL WORK TO RENOVATE AND ALTER AN EXISTING AREA ON THE 1st FLOOR, BUILDING 200, OF THE TOSUS VA MEDICAL CENTER, AUGUSTA, MAINE FOR NEW TOSHIBA CT IMAGING EQUIPMENT. THERE ARE NO CHANGES TO OCCUPANCY CLASSIFICATION, BUILDING AREA, FIRE OR SMOKE COMPARTMENTS, OR MEANS OF EGRESS.



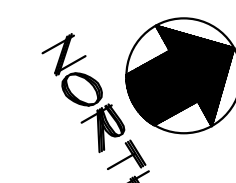
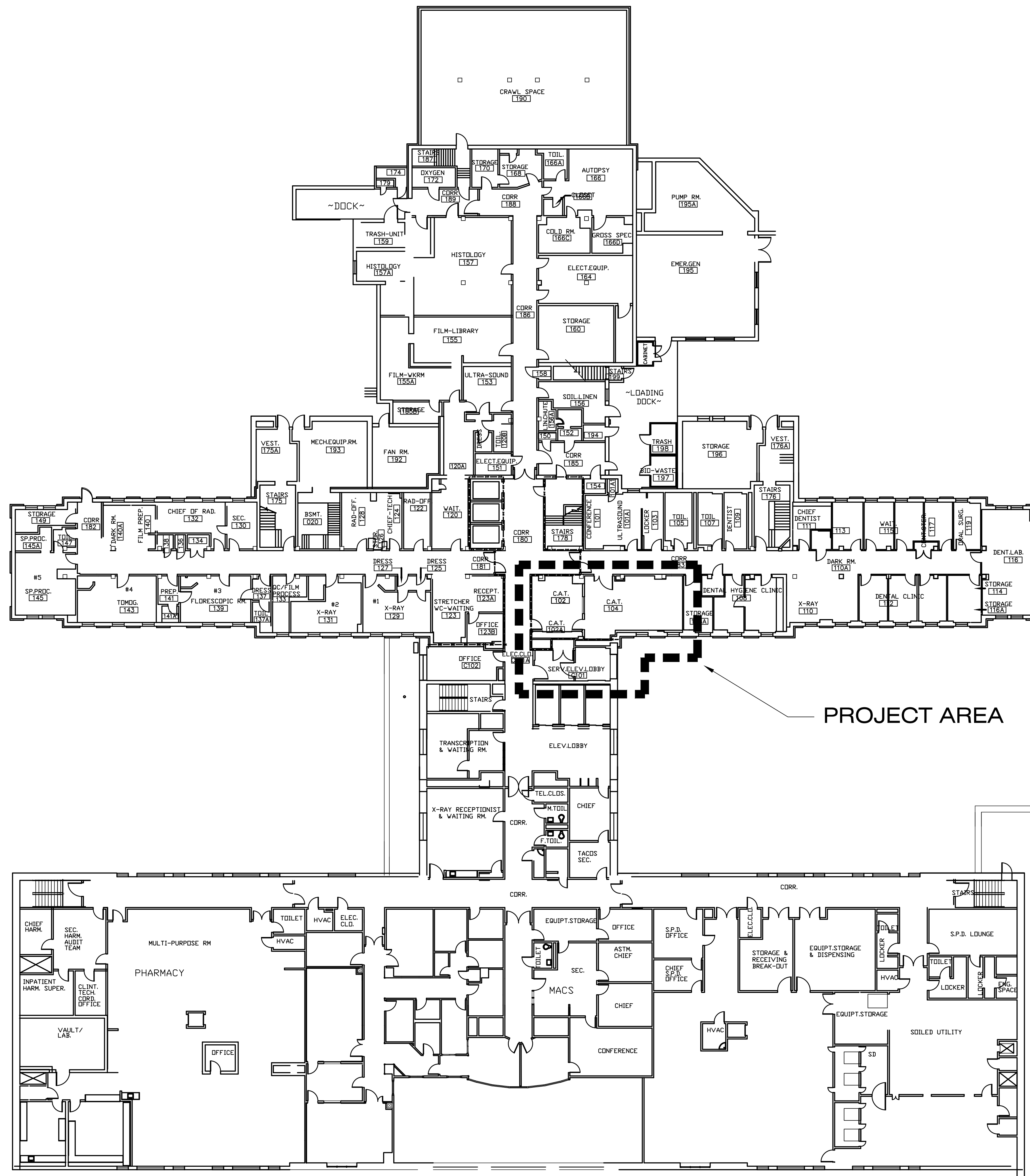
DVA PROJECT 402-10-542
CT SUITE ROOM 104 RENOVATION
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VA MAINE HEALTHCARE SYSTEM
1 VA CENTER
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REVISIONS
RECORD DOCUMENTS
JANUARY 13, 2017

ISSUED FOR: DATE:
REVIEW: 06/16/16
BIDDING:
PERMIT:
CONSTRUCTION: 07/12/16

SHEET TITLE
COVER
DATE: JUNE 16, 2016
PROJECT NO.: 0316-02
SHEET NO.:

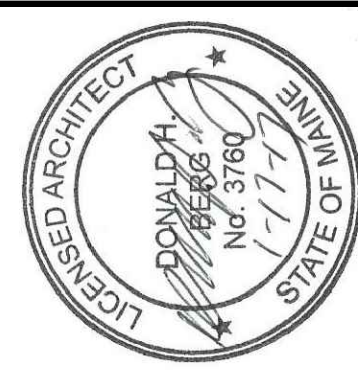
COVER



BUILDINGS 200 / 200E, 1st FLOOR - ORIENTATION / REFERENCE PLAN

SCALE
1/16" = 1'-0"

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☐ CONSTRUCTION	07/12/16

SHEET TITLE	
ORIENTATION & REF PLANS	
DATE	JUNE 16, 2016
PROJECT NO.	0316-02
SHEET NO.	

A-1

DEMOLITION CEILING PLAN NOTES:

1. REMOVE EXISTING FLUORESCENT LIGHT FIXTURES BUT SAVE A MINIMUM OF THREE (3) FIXTURES FOR REUSE - SEE REFLECTED CEILING PLAN.
2. REMOVE EXISTING DOWNLIGHTS.
3. REMOVE EXISTING COMMUNICATION / TRACKING DEVICES FROM CEILING GRID BUT DO NOT DISCONNECT. WRAP IN PLASTIC FOR SUBSEQUENT REINSTALLATION.
4. REMOVE EXISTING HVAC DIFFUSERS AND ASSOCIATED DUCTWORK - SEE MECHANICAL DRAWINGS.
5. REMOVE EXISTING MECHANICAL AIR HANDLER AND SUPPORTS - SEE MECHANICAL DRAWINGS.
6. REMOVE EXISTING PATIENT LIFT AND STORE FOR SUBSEQUENT REINSTALLATION.
7. REMOVE EXISTING CURTAIN TRACK.
8. REMOVE EXISTING SPEAKERS FROM CEILING GRID BUT DO NOT DISCONNECT. WRAP IN PLASTIC FOR SUBSEQUENT REINSTALLATION.
9. REMOVE EXISTING CEILING COMPLETE INCLUDING TILES AND GRID.

● = EXISTING SPRINKLER HEAD LOCATIONS.

INSTRUCTIONS - INFECTION CONTROL RISK ASSESSMENT

BASED UPON THE TYPE OF CONSTRUCTION ACTIVITY AND THE PATIENT RISK GROUP, IT IS THE ARCHITECT'S OPINION THAT THE REQUIRED INFECTION CONTROL PRECAUTIONS WILL BE TYPE C, CLASS III. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL VERIFY WITH VA SAFETY PERSONNEL THAT THEY AGREE WITH THIS ASSESSMENT.

CLASS III REQUIREMENTS DURING CONSTRUCTION ARE:

1. CONSTRUCT DUST PARTITION, EXTEND AND SEAL TO CONSTRUCTION ABOVE.
2. ISOLATE HVAC SYSTEM WITHIN WORK AREAS TO PREVENT CONTAMINATION OF DUCT SYSTEM.
3. SEAL DOORS OPENING TO ADJACENT AREAS WITH DUCT TAPE.
4. BLOCK OFF AND SEAL HVAC REGISTERS, GRILLS AND ANY OPENINGS IN DUCTWORK TO REMAIN.
5. MAINTAIN NEGATIVE PRESSURE WITHIN WORK SITE UTILIZING HEPA EQUIPPED AIR FILTRATION UNITS.
6. PLACE DUST MAT AT ENTRANCE AND EXIT OF WORK AREA.
7. COVER CONSTRUCTION WASTE BEFORE TRANSPORT IN COVERED CONTAINERS.

CLASS III REQUIREMENTS UPON COMPLETION OF PROJECT ARE:

1. COVER CONSTRUCTION WASTE BEFORE TRANSPORT IN COVERED CONTAINERS.
2. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL A HEALTH SYSTEM RESPONSIBLE PERSON INSPECTS COMPLETED PROJECT.
3. REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREAD OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
4. NET MOP AND VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA.
5. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK HAS BEEN PERFORMED.
6. HOUSEKEEPING TO WIPE WORK SURFACES WITH DISINFECTANT.

NOTE: ALTHOUGH DUSTPROOF PARTITIONS ARE SPECIFICALLY NOT SHOWN ON THESE DRAWINGS, IT IS THE ARCHITECT'S INTENTION THAT ISSUES RELATING TO INFECTION CONTROL, DEMOLITION, NOISE, CONSTRUCTION DISRUPTIONS TO THE HOSPITAL, HOURS OF WORK FOR SPECIFIC TASKS, ETC. BE DISCUSSED AND RESOLVED DURING THE PRE-CONSTRUCTION MEETING. CONTRACTOR SHALL PROVIDE AND MAINTAIN STICKY WALK-OFF MATS AT DUST BARRIER LOCATIONS.

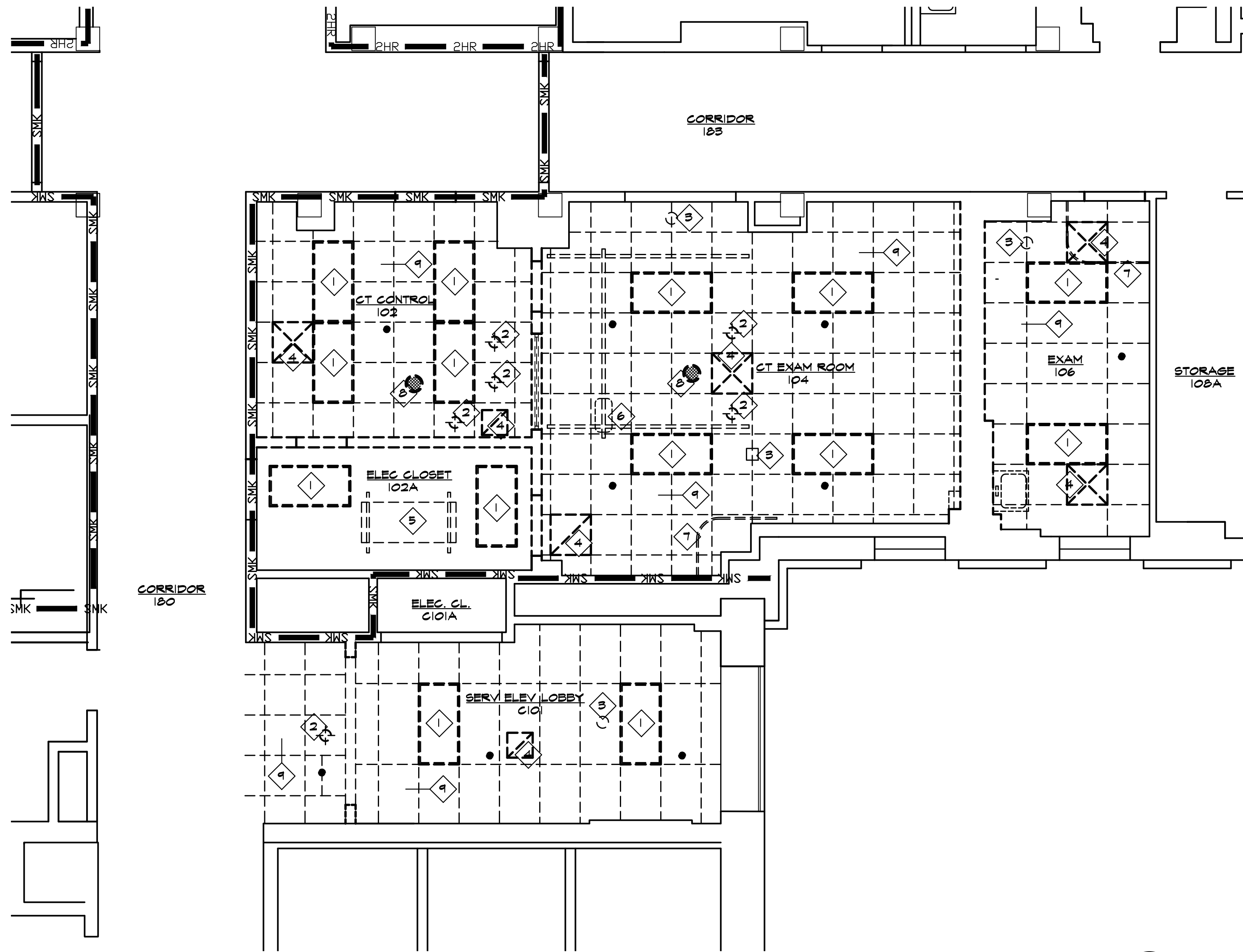
DEMOLITION PLAN NOTES:

1. REMOVE EXISTING DOOR AND FRAME COMPLETE.
2. REMOVE EXISTING LEAD-LINED DOOR AND FRAME COMPLETE.
3. REMOVE EXISTING PARTITIONS (SHOWN DASHED) COMPLETE FROM FLOOR TO CONSTRUCTION ABOVE.
4. REMOVE EXISTING LEAD-LINED PARTITION INCLUDING VIEW WINDOW (SHOWN DASHED) COMPLETE FROM FLOOR TO CONSTRUCTION ABOVE.
5. REMOVE EXISTING BASE / WALL CABINETS WITH SINK.
6. REMOVE EXISTING WALL MOUNTED SINK.
7. REMOVE EXISTING SHELVES.
8. REMOVE EXISTING FLOORING AND BASE THROUGHOUT PROJECT AREA.
9. EXISTING SHELVES TO REMAIN.
10. EXISTING MEDICAL GAS OUTLETS TO REMAIN.
11. EXISTING FLOOR DRAIN TO REMAIN.
12. REMOVE EXISTING LEAD-LINED DOOR BUT KEEP FRAME IN PLACE.
13. REMOVE EXISTING LEAD-LINED PARTITION - THIS PARTITION IS BELIEVED TO BE MASONRY.
14. REMOVE EXISTING WALL MOUNTED SINK, FAUCET SET AND WALL CARRIER FOR REUSE IN THIS PROJECT.

LEGEND - FIRE / SMOKE PARTITIONS

SMOKE BARRIER
SMK
SMK
SMK

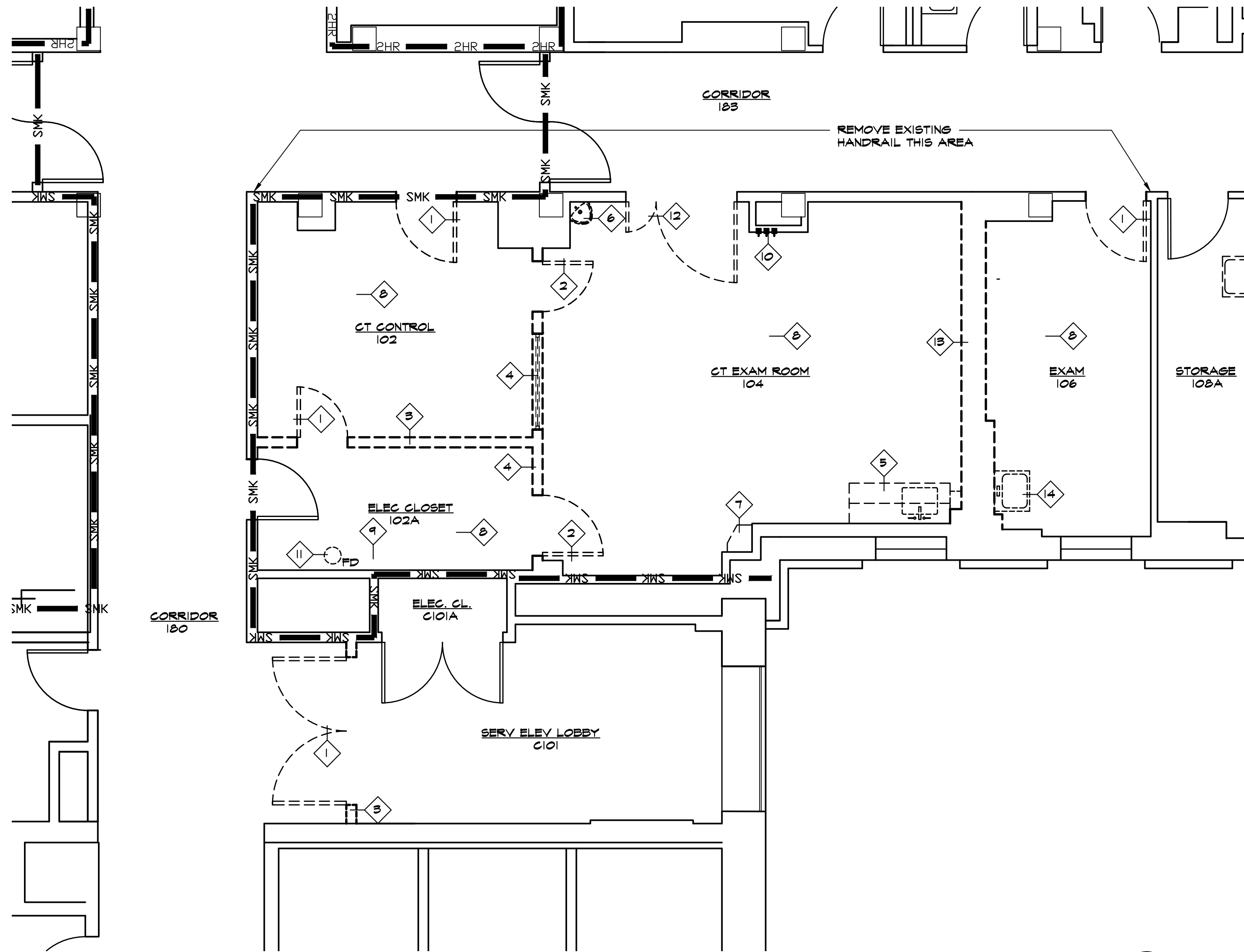
2-HOUR PARTITION
2HR
2HR
2HR



DEMOLITION CEILING PLAN

SCALE
1/4" = 1'-0"

1



DEMOLITION FLOOR PLAN

SCALE
1/4" = 1'-0"

2



DVA PROJECT 402-10-542
CT SUITE ROOM 104 RENOVATION
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1 VA CENTER
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☐ CONSTRUCTION	07/12/16

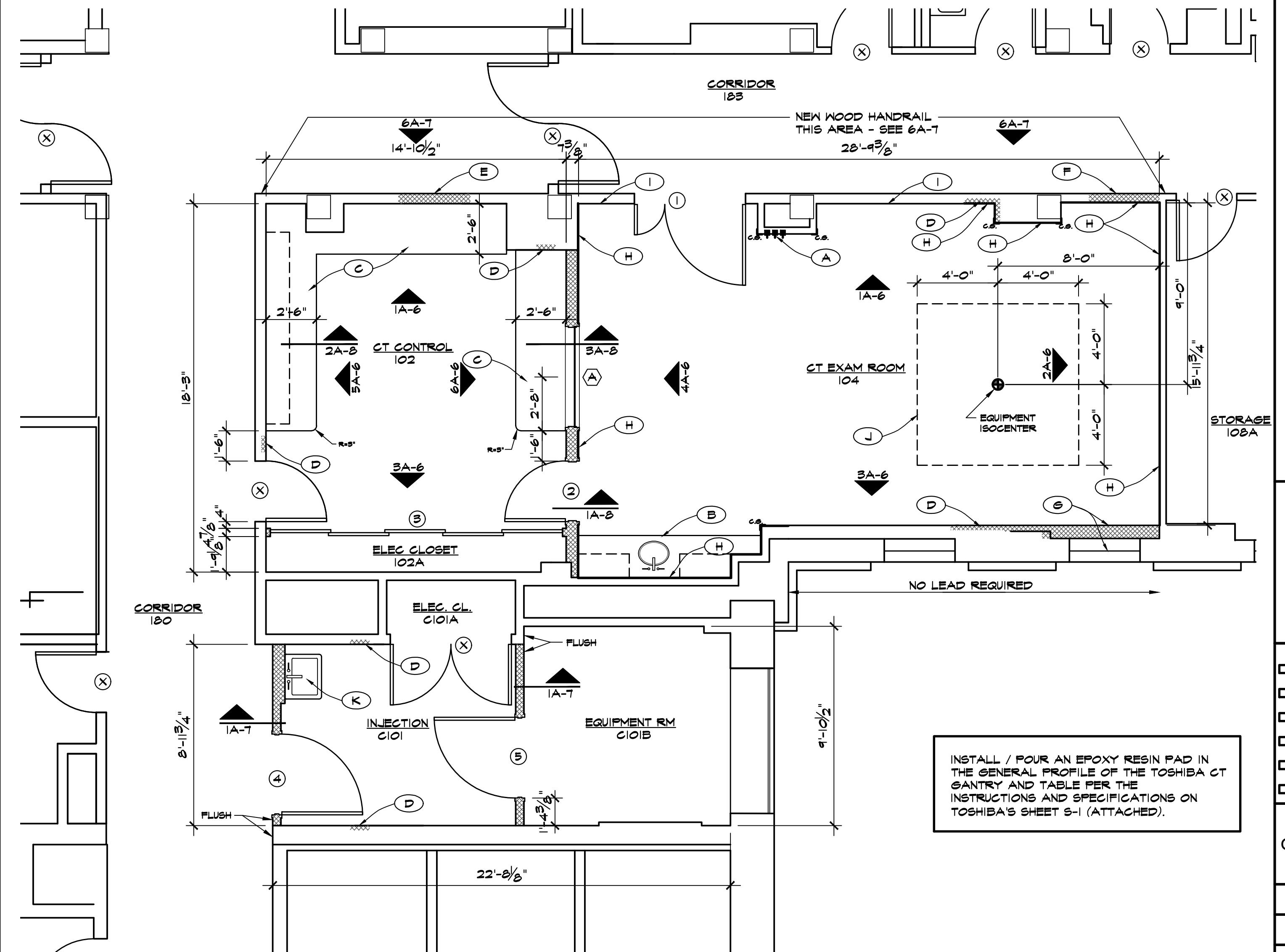
SHEET TITLE	
DEMOLITION CEILING & FLOOR PLAN	
DATE	JUNE 16, 2016
PROJECT NO.	0316-02
SHEET NO.	

A-2

DONALD H. BERG, ARCHITECT
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MAINE LICENSE NO. AR02960



SCALE
1/4" = 1'-0"



SCALE
1/4" = 1'-0"

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JANUARY 13, 2017

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PROJECT TITLE

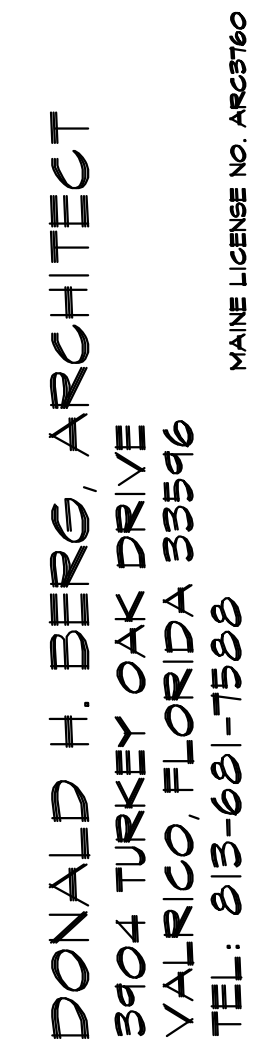
RCP &
CONSTRUCTION
PLAN

DATE
JUNE 16, 2016

PROJECT NO.
316-02

A-3

ITEM	ELEC. SYM.	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.
①	GANT	AQUILION GANTRY (TYPE A)	*	6,063	① A2
②	PCH	AQUILION HIGH CAPACITY PATIENT COUCH (EXTENDED W/LATERAL MOVEMENT)	*	1,941	① A2
③	NAVI	NAVI BOX	683	27	② A2
④	MON	CONTROL MONITOR	192	18	③ A2
⑤	SPK1	SPEAKER (DESKTOP)	0	5	④ A2
⑥	SPK2	SPEAKER (WALL MOUNT)	0	5	④ A2
⑦	SKBD	KEYBOARD (SCAN)	0	6	— —
⑧	DESK	DESK FOR MONITORS & KEYBOARDS	0	221	⑤ A2
⑨	CHR	CHAIR	0	55	— —
⑩	INV	INNERVISION WORKSTATION	444	17	⑥ A2
⑪	CONB	AQUILION CONSOLE BOX	10,246	915	⑦ A2
⑫	PR	PHANTOM RACK (MOBILE CART TO TRANSPORT PHANTOMS)	0	287	⑨ A2
ITEM	ELEC. SYM.	ITEM DESCRIPTION - SUPPLIED BY TOSHIBA & INSTALLED BY CUSTOMER / CONTRACTOR	BTU/HR	WEIGHT	REF.
⑬	PD	POWER DISTRIBUTOR	4,777	1,654	⑧ A2
ITEM	ELEC. SYM.	OPTIONAL ITEM DESCRIPTION - SUPPLIED & INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.
⑭	VIT	VITREA WORKSTATION	4,144	73	— —
⑮	FPMC	CT FLUOROSCOPY FLAT PANEL MONITOR (CEILING MOUNTED)	137	56	— —
⑯	EOP	CT FLUOROSCOPY EXTENSION OPERATING PANEL (PEDESTAL MOUNTED)	0	T.B.D.	— —
⑰	RWT	ECG MONITOR, R-WAVE TRIGGER (MODEL 7800)	—	6	— —
⑱	INJ	MEDRAD INJECTOR (CEILING MOUNTED)	0	153	— —
⑲	INJC	MEDRAD INJECTOR BASE UNIT	320	14	— —
⑳	INJR	MEDRAD INJECTOR DISPLAY CONTROL UNIT W/STAND	0	9	— —
㉑	DKBD	KEYBOARD (DISPLAY)	0	6	— —
ITEM	ELEC. SYM.	OPTIONAL ITEM DESCRIPTION - SUPPLIED BY TOSHIBA & INSTALLED BY CUSTOMER / CONTRACTOR	BTU/HR	WEIGHT	REF.
㉒	UPS	G8000 150 KVA UNINTERRUPTIBLE POWER SUPPLY	11,118	2,557	⑩ A2
㉓	RSAP	REMOTE STATUS ALARM PANEL FOR "UPS"	—	10	⑪ A2
㉔	BAT	BATTERY CABINET FOR "UPS" (16 MINUTE) (BC43)	SEE DETAIL	3,548	⑫ A2
㉕	PICM	PDU INRUSH CURRENT MONITOR	—	35	⑬ A2



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MEDICAL EQUIPMENT PLAN

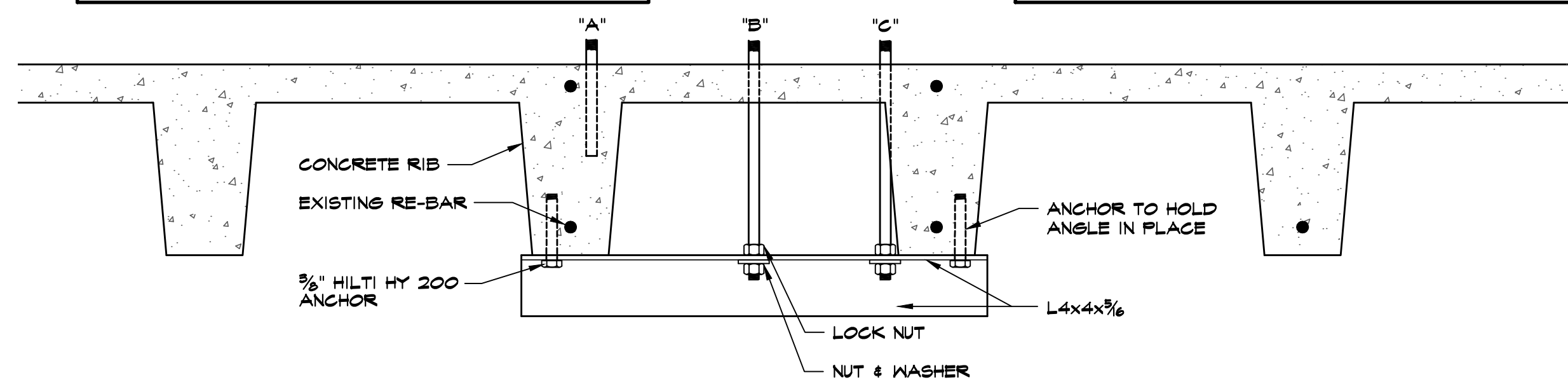
DATE
JUNE 16, 2016

PROJECT NO.
316-02

SHEET NO.

A-4

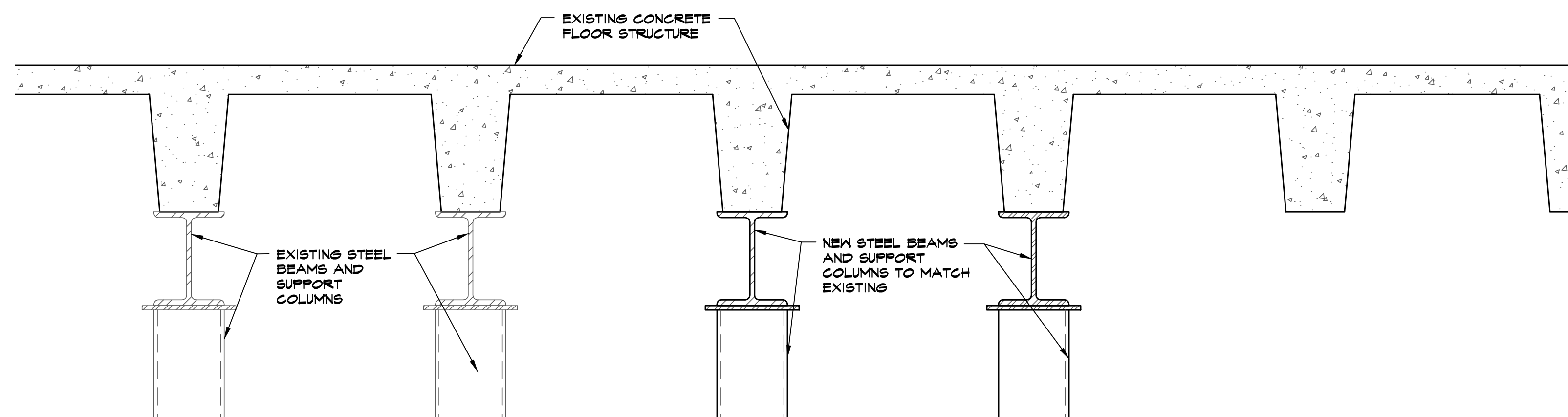
- NOTES:
1. ANCHOR DIAMETER AND PROJECTION AS REQUIRED BY TOSHIBA.
 2. LOCATE ANCHORAGE PER TOSHIBA DRAWINGS SI & S2.
- "A" ANCHOR FULLY WITHIN RIB. USE HILTI HY200 ADHESIVE ANCHOR OR KWIK BOLT WITH 6" EMBEDMENT.
- "B" ANCHOR MISSES RIB - USE A36 THREADED ROD THROUGH SLAB ANCHORED TO L4x4x3/8
- "C" ANCHOR MISSES RIB - USE A36 THREADED ROD THROUGH SLAB ANCHORED TO L4x4x3/8



GANTRY / TABLE / POWER DISTRIBUTOR ANCHORAGE - DETAIL

SCALE
1 1/2" = 1'-0"

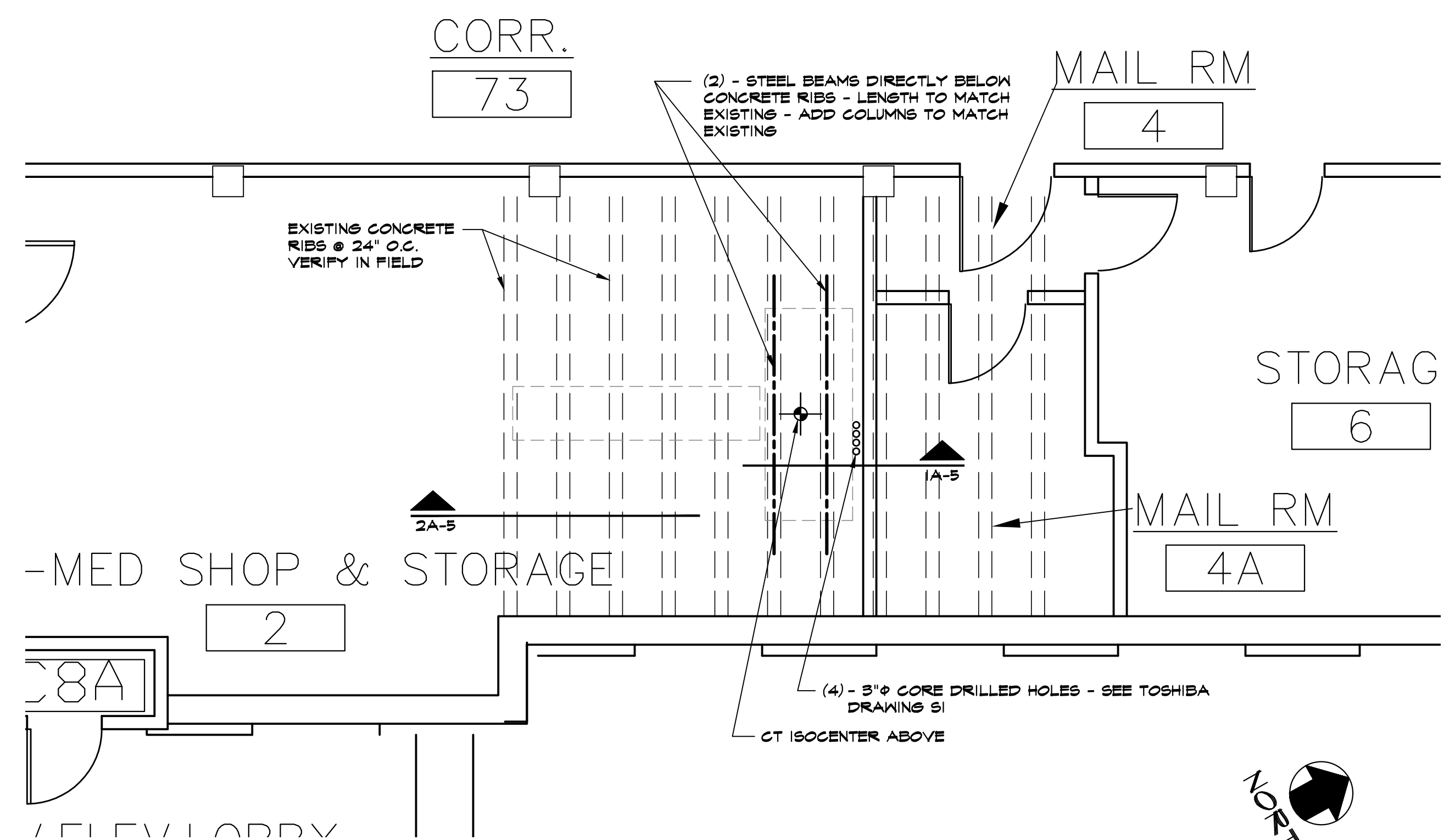
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ADDITIONAL STRUCTURE - DETAIL

SCALE
1 1/2" = 1'-0"

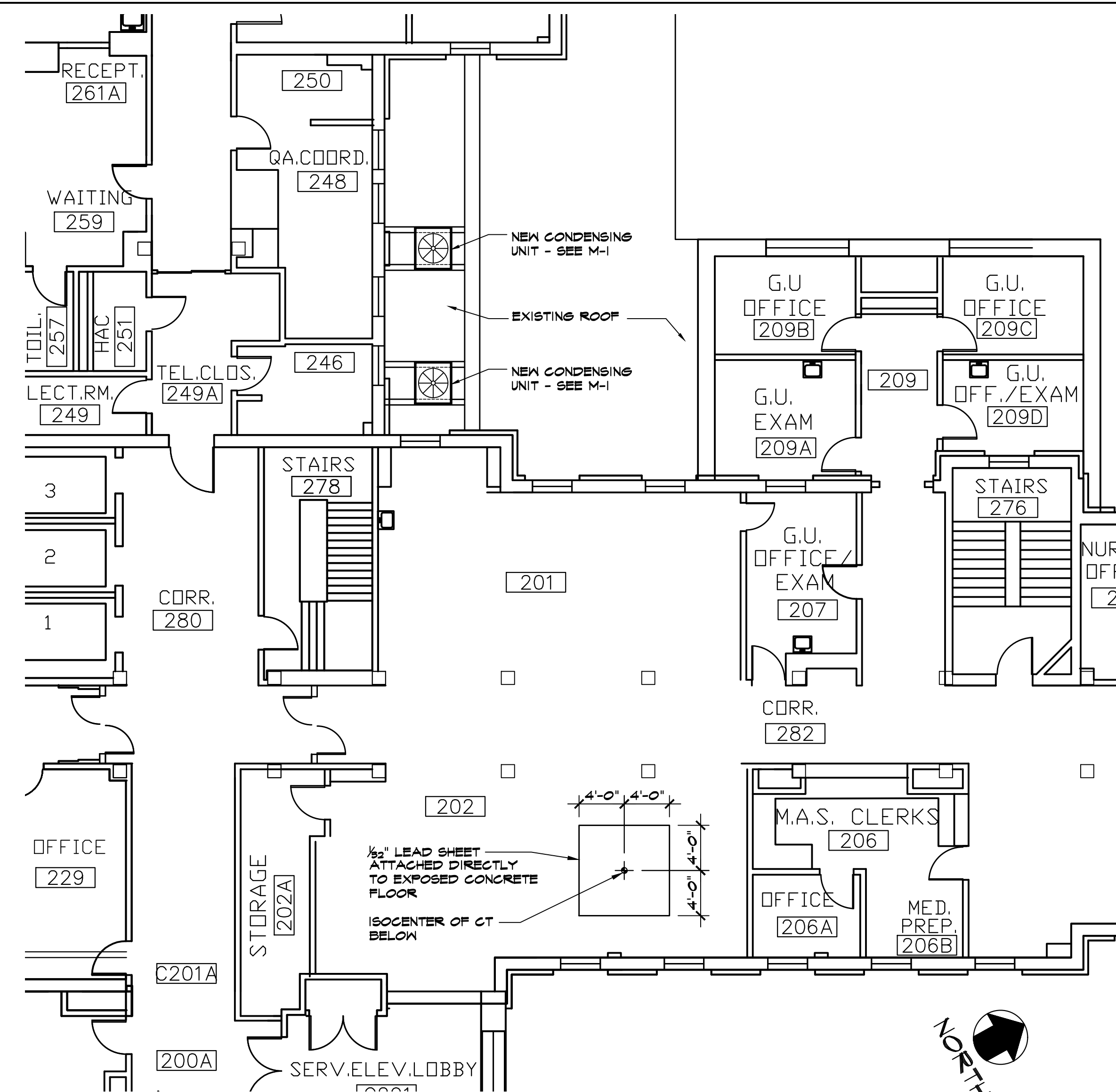
2



PARTIAL BASEMENT FLOOR PLAN - STRUCTURAL ADDITIONS

SCALE
1/4\"/>

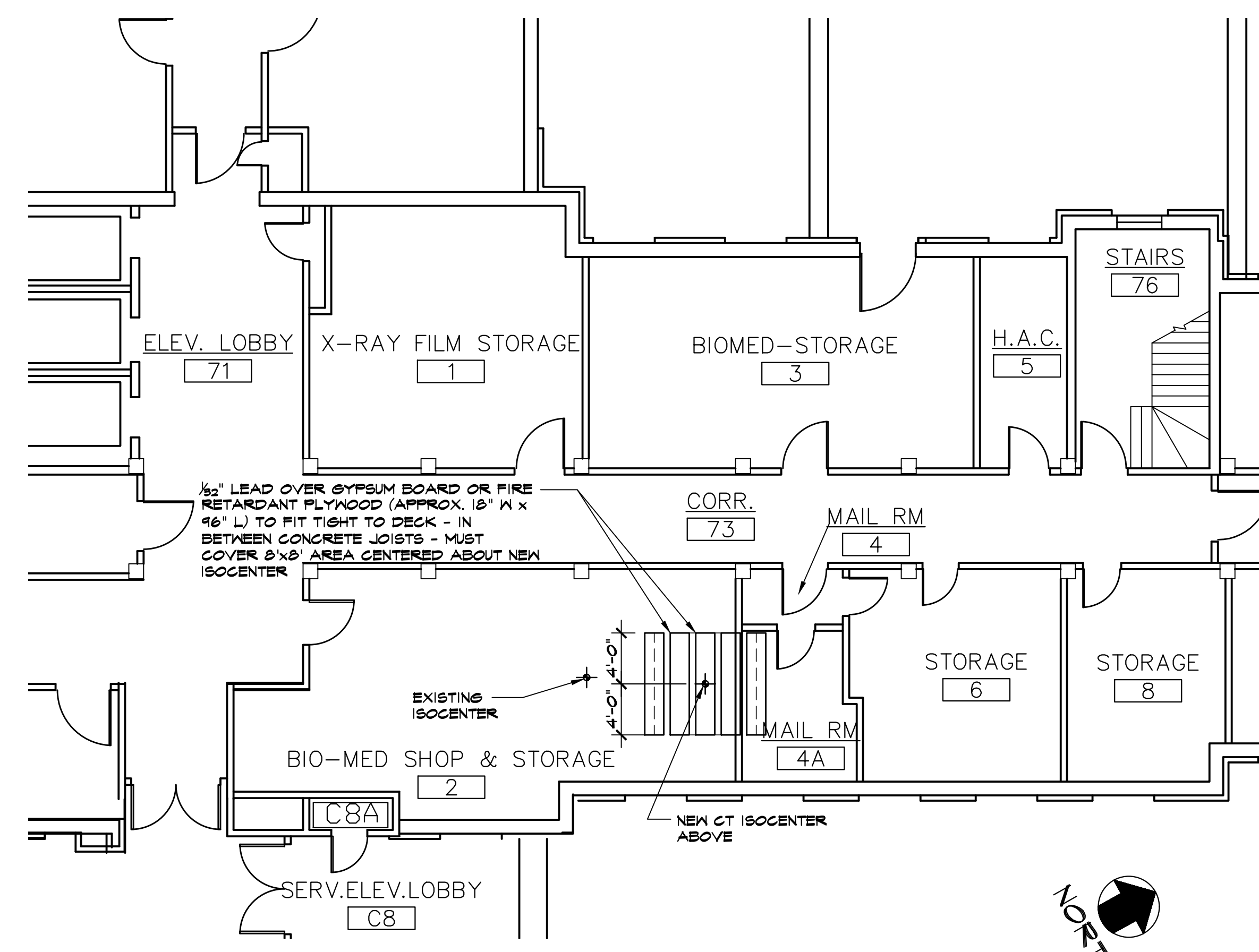
3



PARTIAL 2nd FLOOR PLAN

SCALE
1/8\"/>

4



PARTIAL BASEMENT FLOOR PLAN

SCALE
1/8\"/>

5

DONALD H. BERG, ARCHITECT
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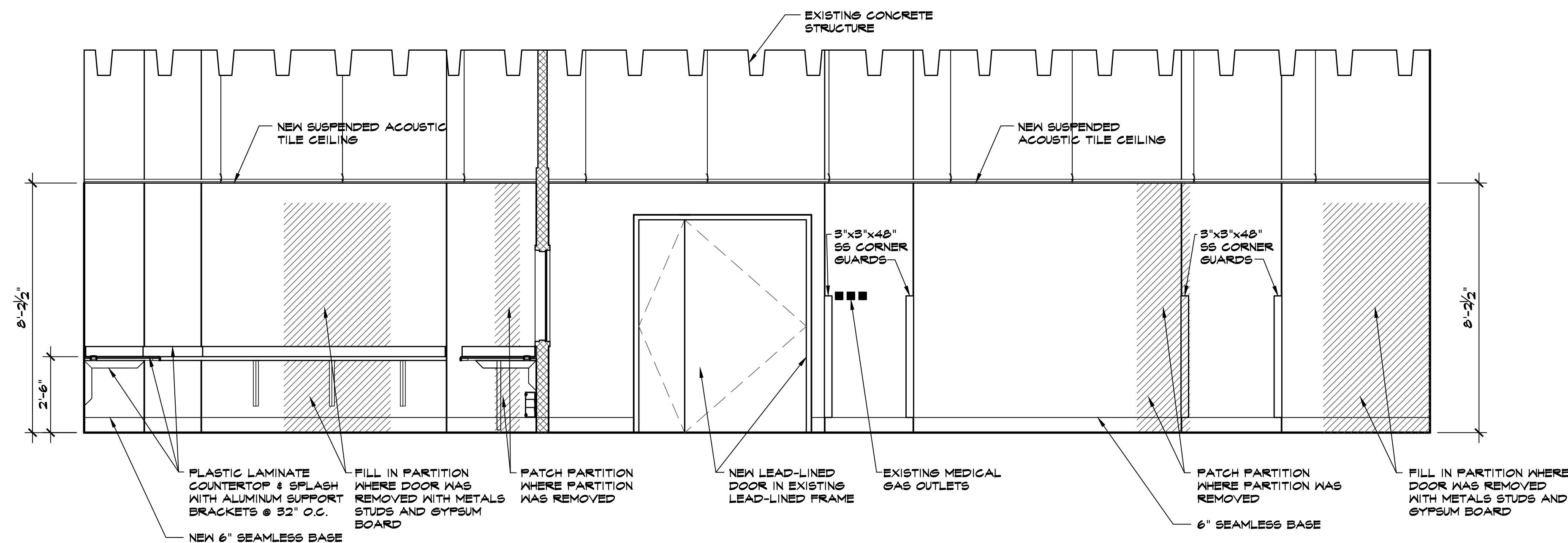
ISSUED FOR: DATE:
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SHEET TITLE
WALL
SECTIONS &
DETAILS

DATE
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0316-02

SHEET NO.

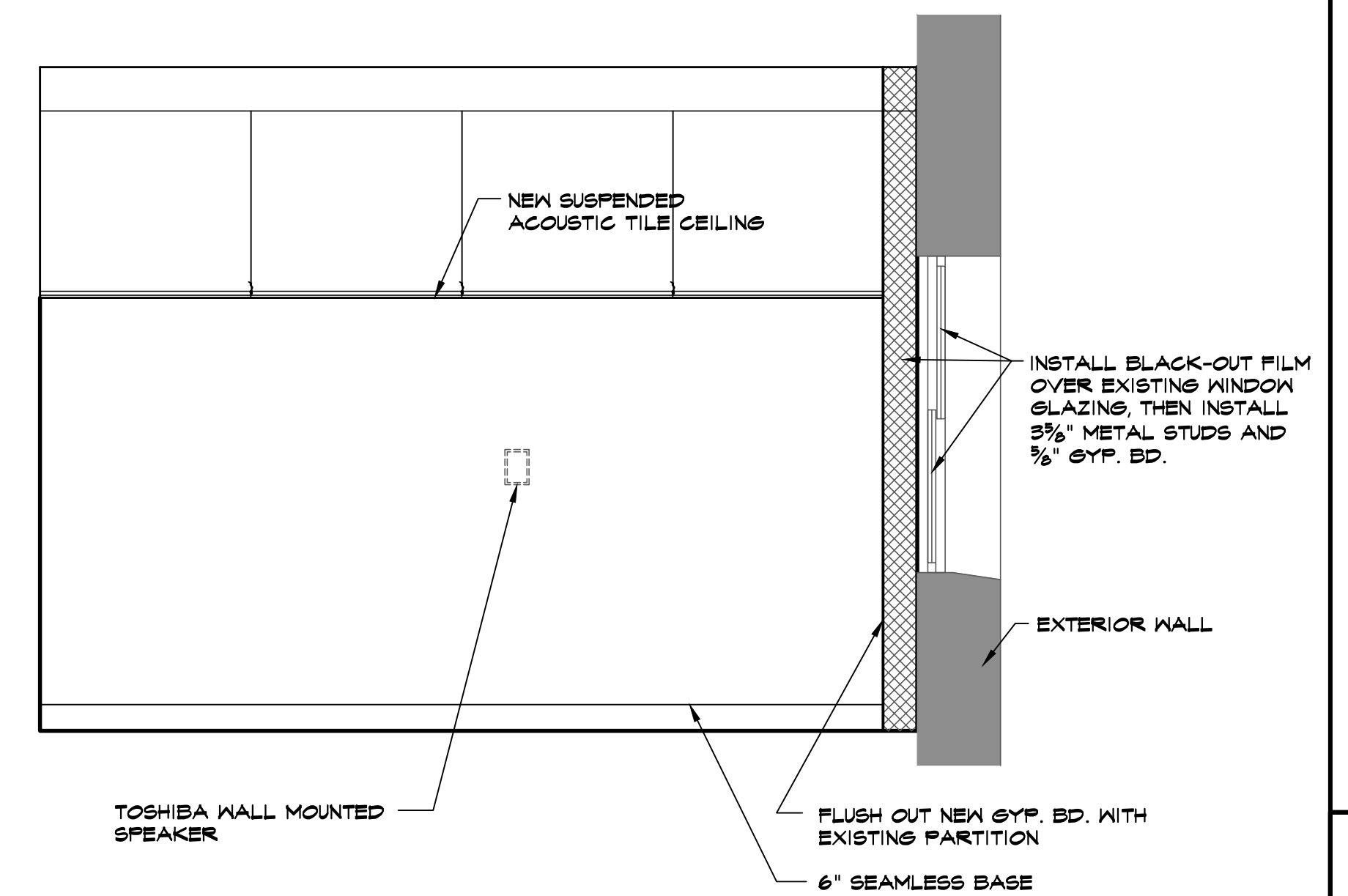
A-5



INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

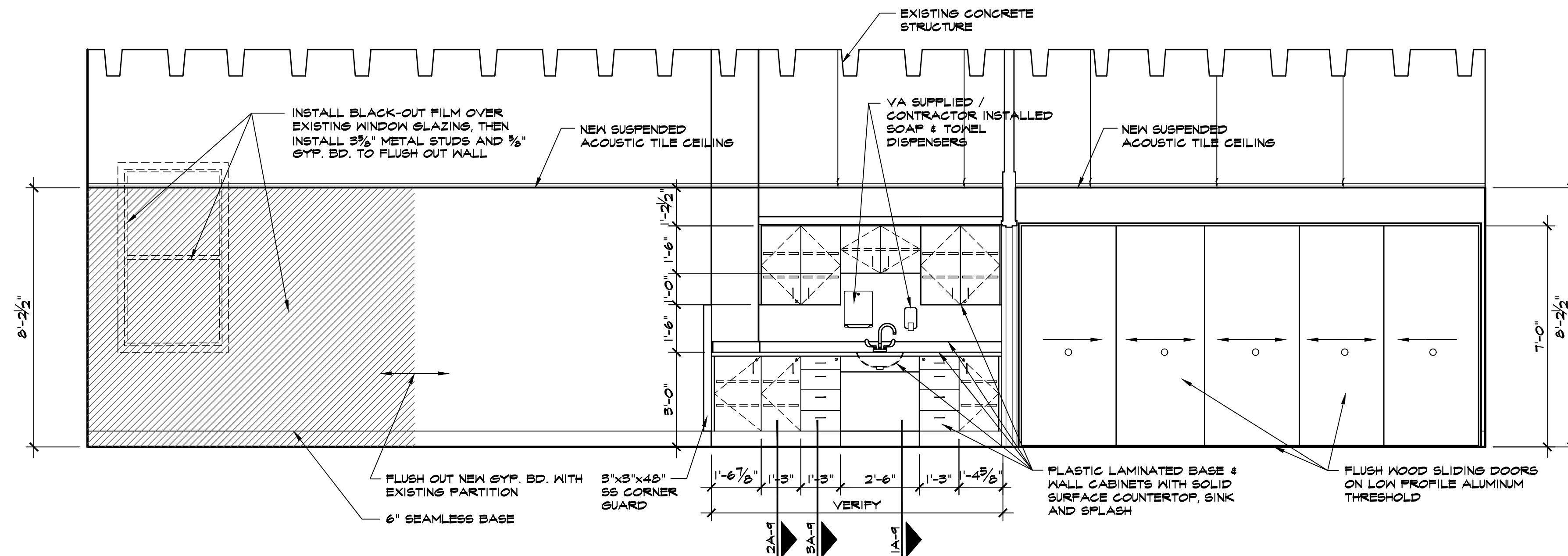
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INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

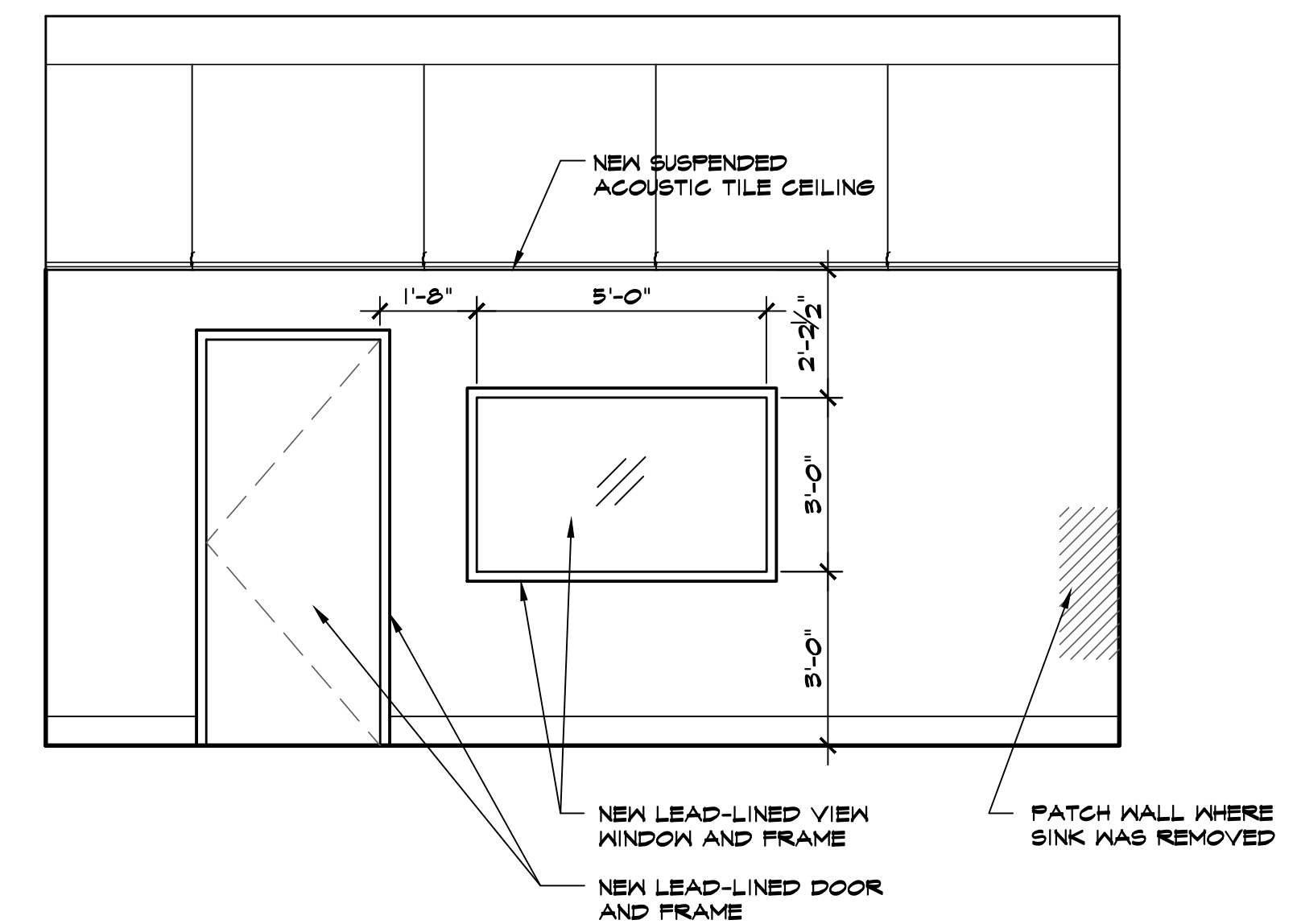
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INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

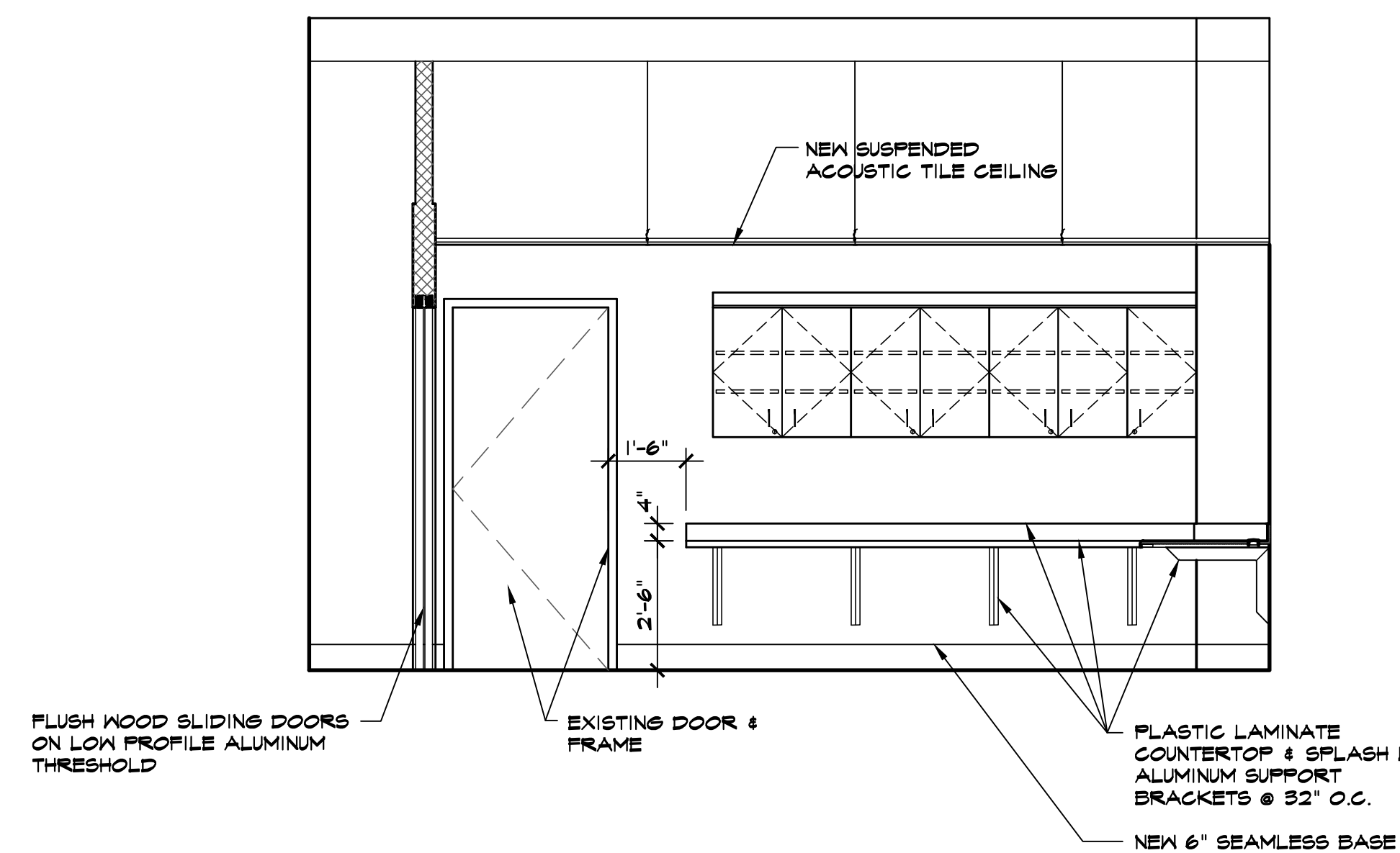
3



INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

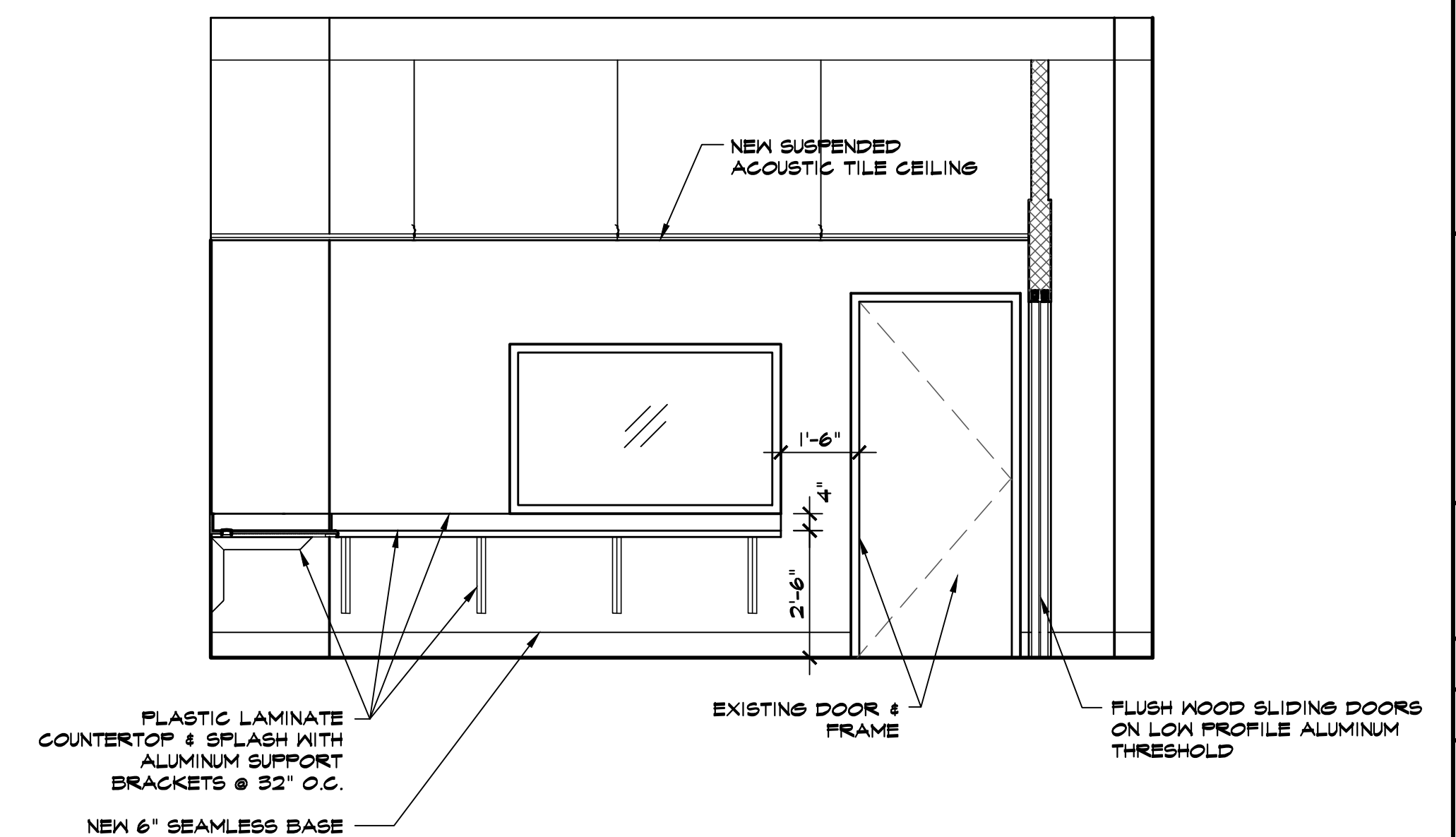
4



INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

5



INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

6

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TEL: 813-681-1588



DVA PROJECT 402-10-542
CT SUITE ROOM 104 RENOVATION
BUILDING 200, 1st FLOOR
VA MAINE HEALTHCARE SYSTEM
1 VA CENTER
AUGUSTA, MAINE 04330

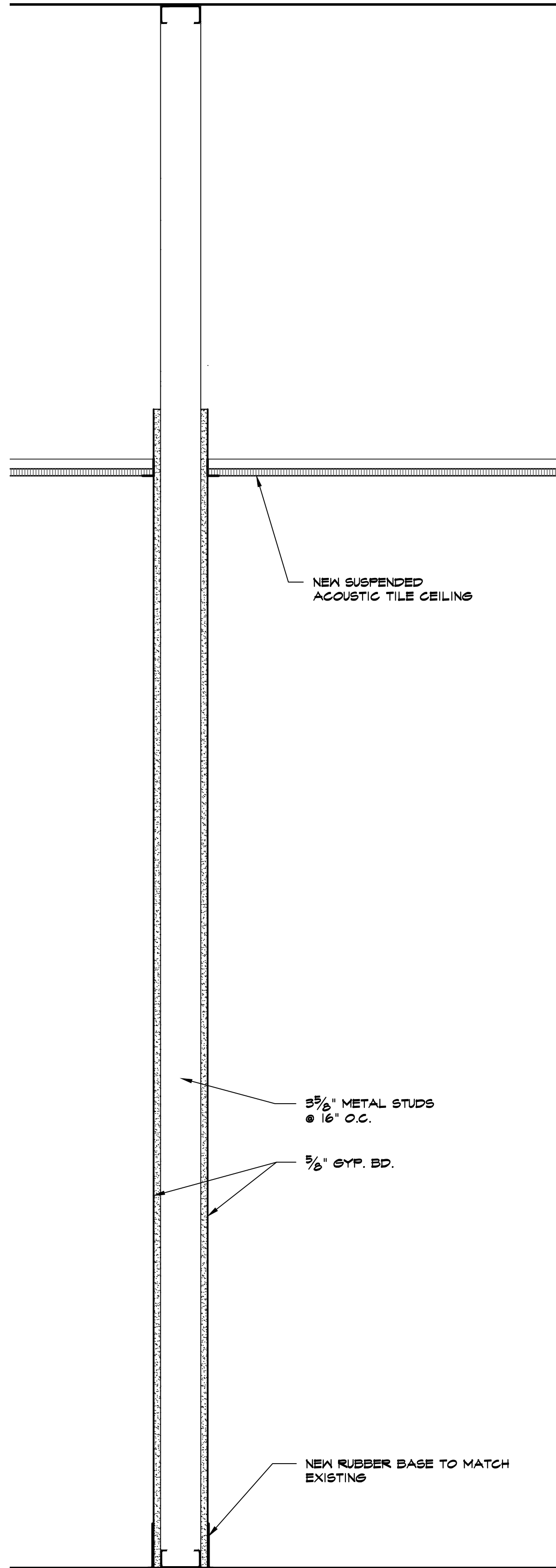
REVISIONS
RECORD DOCUMENTS
JANUARY 13, 2017

ISSUED FOR: DATE:
☐ REVIEW 06/16/16
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☐ PERMIT
☐ CONSTRUCTION 07/12/16

SHEET TITLE
INTERIOR
ELEVATIONS

DATE
JUNE 16, 2016
PROJECT NO.
0316-02
SHEET NO.

A-6



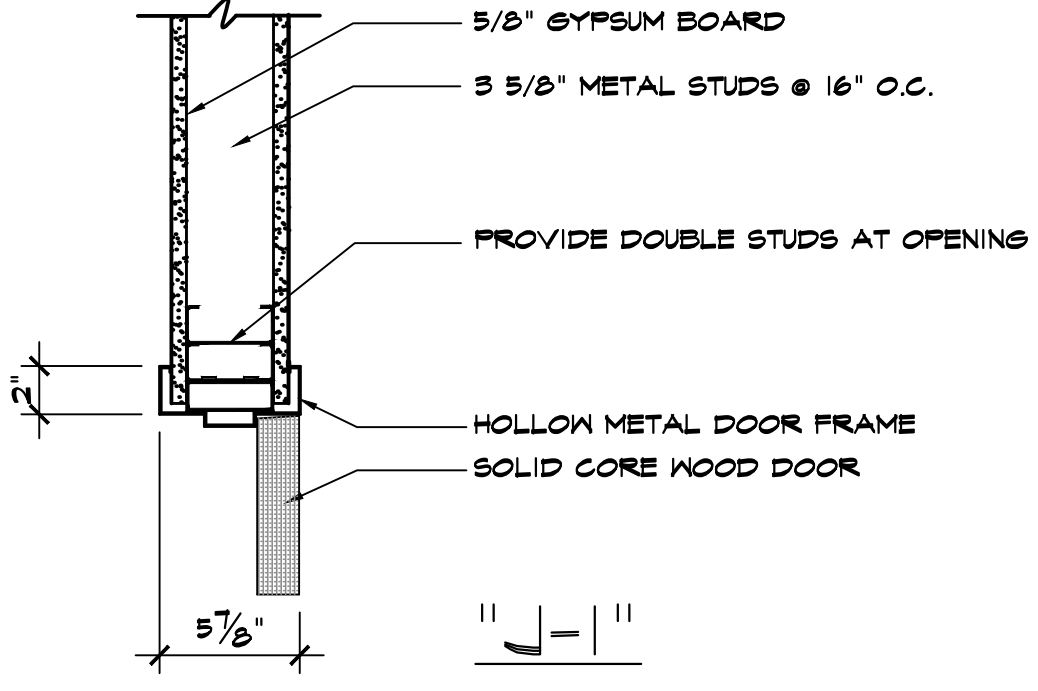
WALL SECTION

SCALE	1
1 1/2" = 1'-0"	



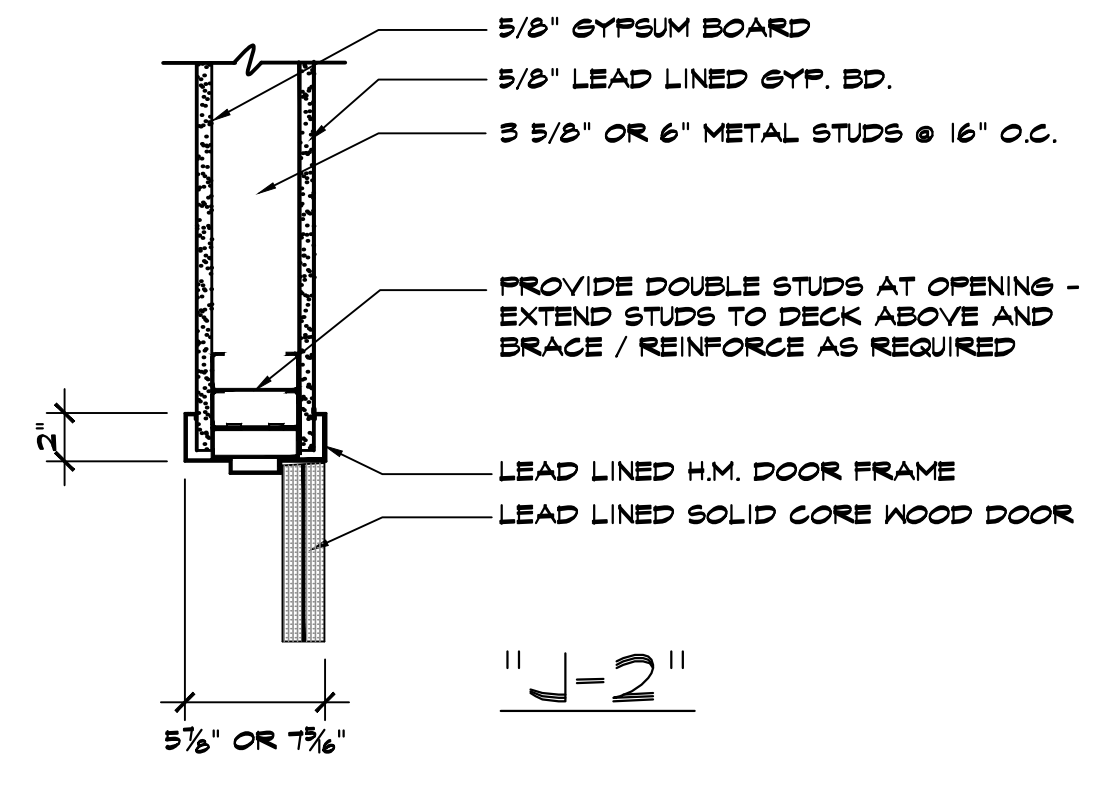
WOOD HANDRAIL PROFILE

SCALE	3
NTS	



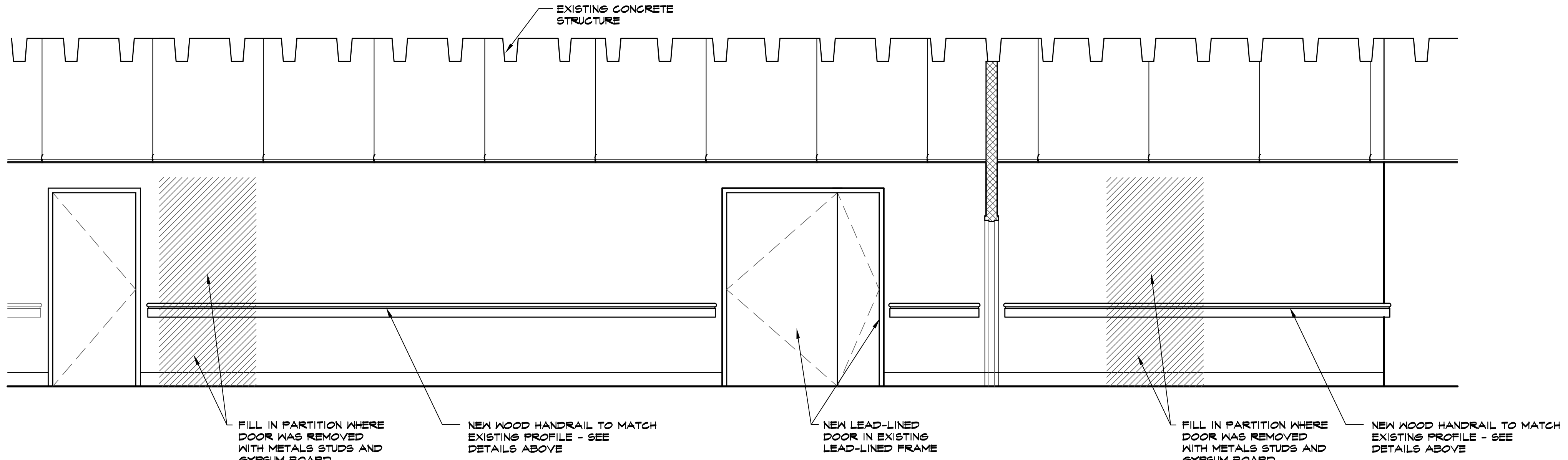
DOOR JAMB DETAIL

SCALE	4
1 1/2" = 1'-0"	



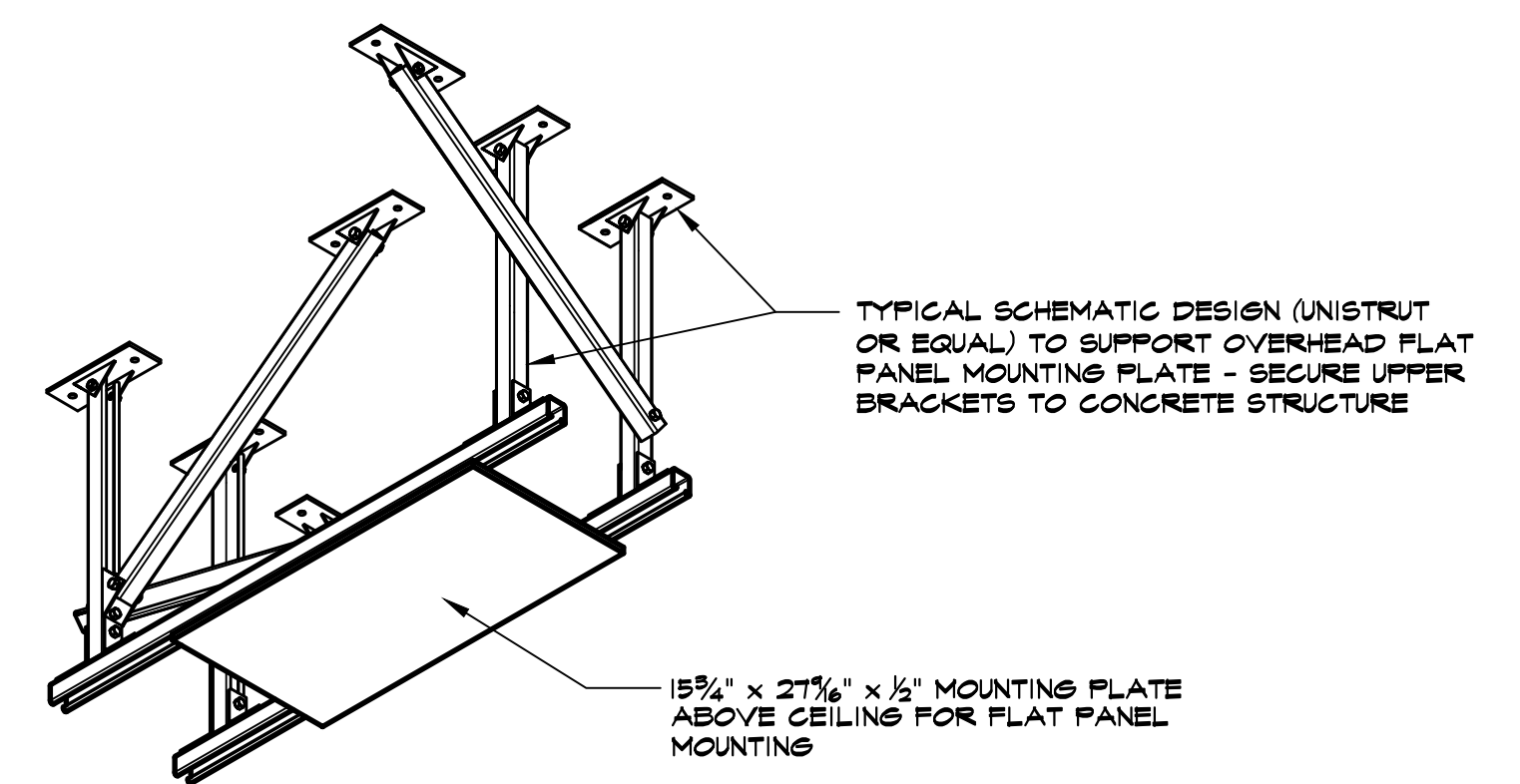
DOOR JAMB DETAIL

SCALE	5
1 1/2" = 1'-0"	



INTERIOR ELEVATION

SCALE	6
3/8" = 1'-0"	



FLAT PANEL MONITOR MOUNTING PLATE

SCALE	2
NTS	

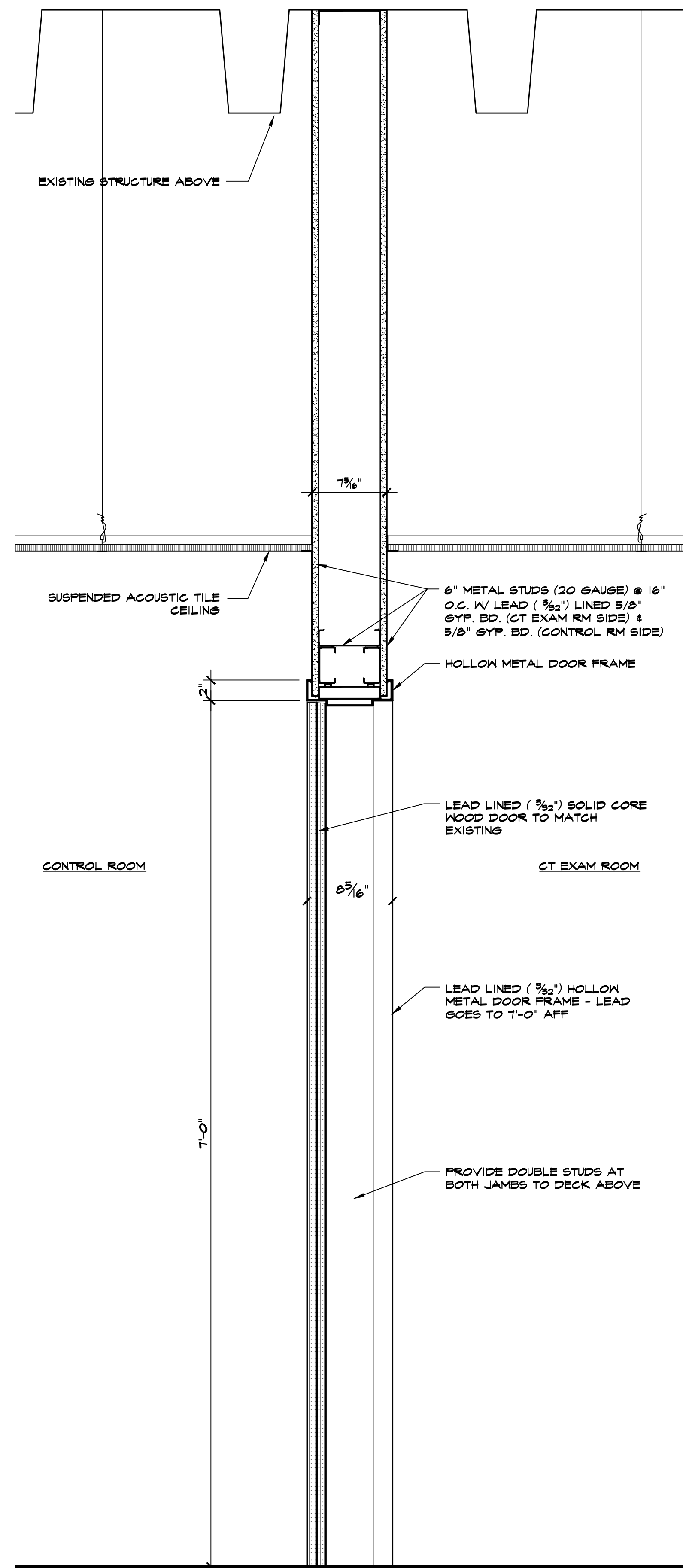


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☐ CONSTRUCTION	07/12/16

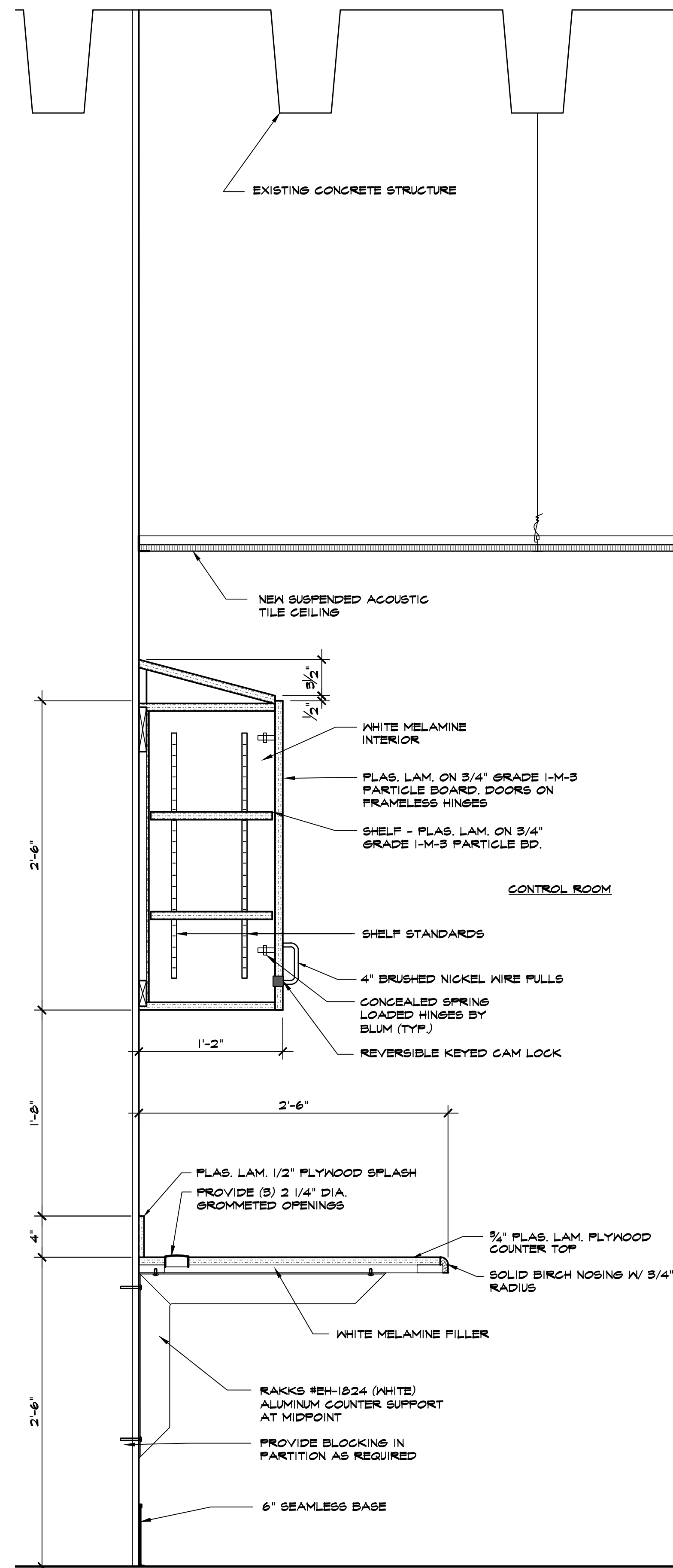
SHEET TITLE	
INTERIOR ELEVATION & DETAILS	
DATE	JUNE 16, 2016
PROJECT NO.	0316-02
SHEET NO.	



WALL SECTION / DOOR DETAIL

SCALE
1 1/2" = 1'-0"

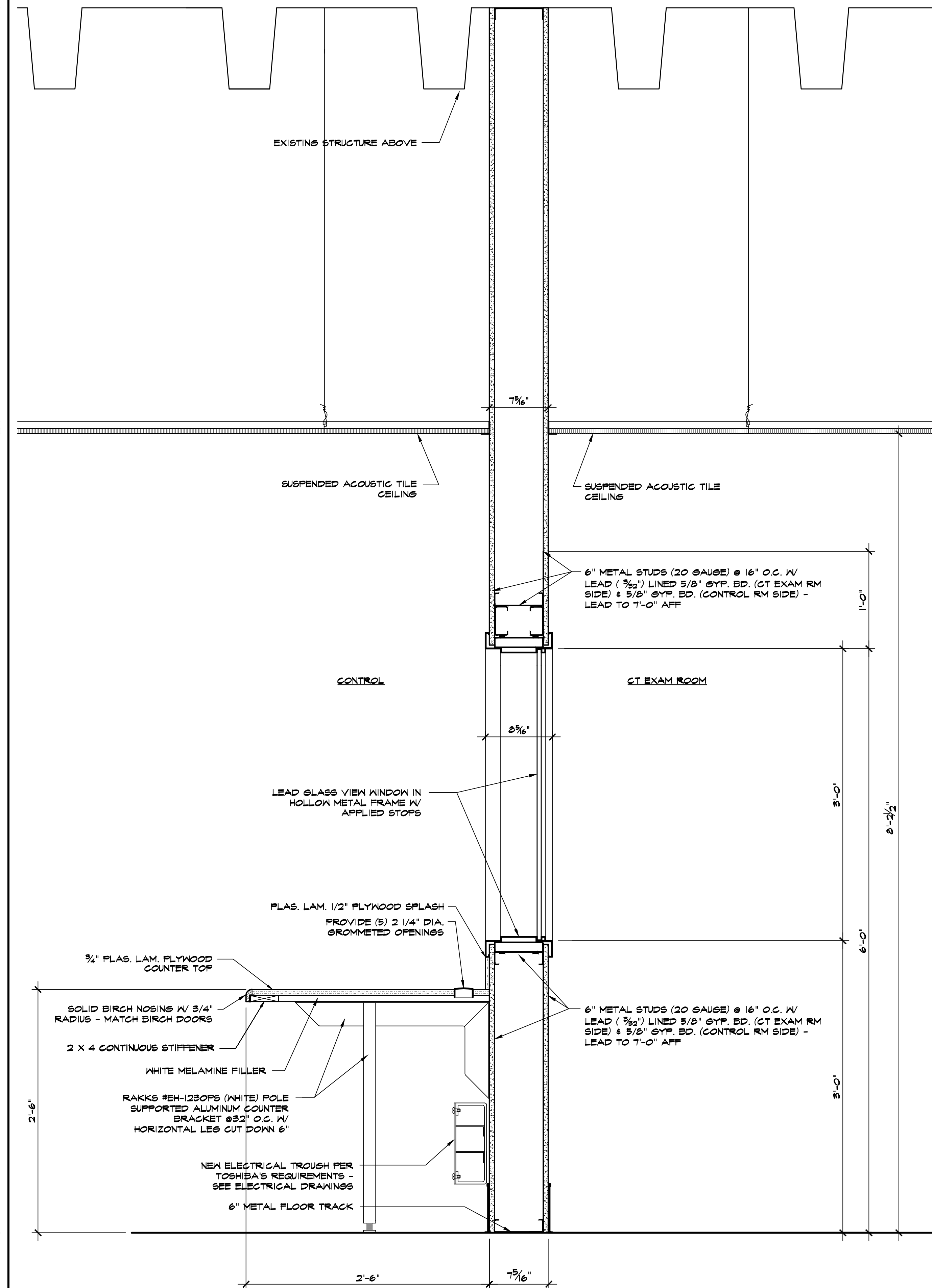
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COUNTERTOP DETAIL

SCALE
1 1/2" = 1'-0"

2



WALL / VIEW WINDOW / COUNTERTOP DETAILS

SCALE
1 1/2" = 1'-0"

3



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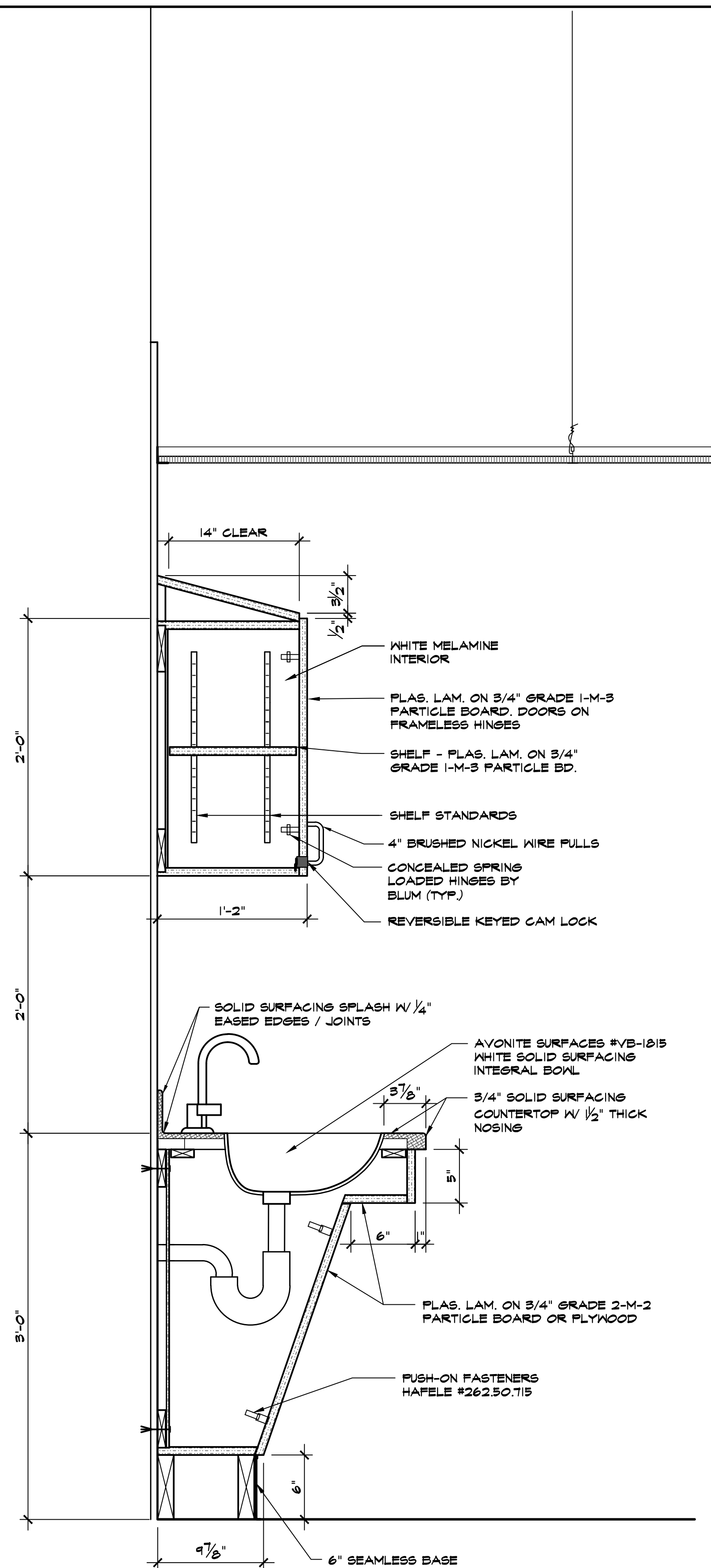
WALL SECTIONS & COUNTERTOPS

DATE
JUNE 16, 2016

PROJECT NO.
316-02

SHEET NO.

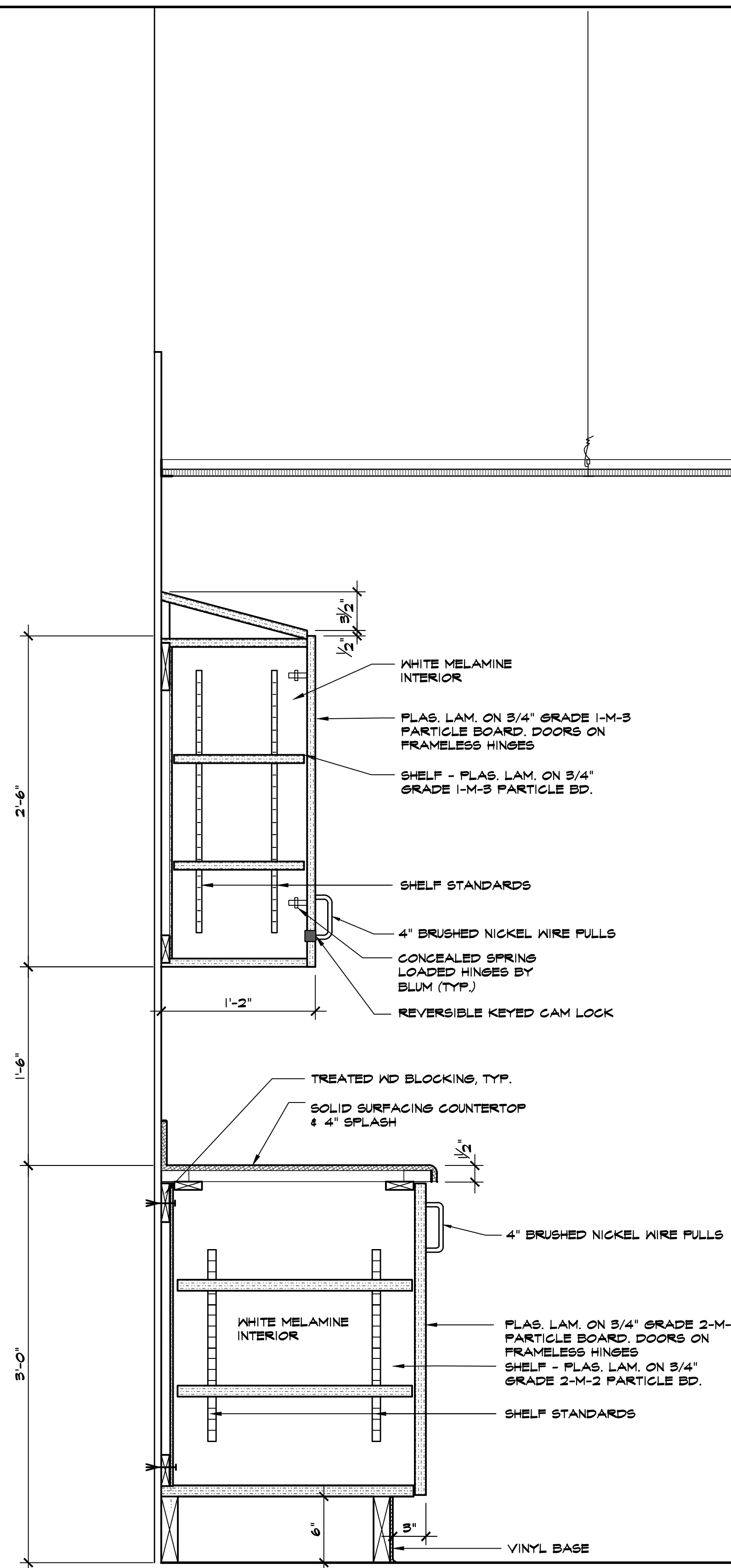
A-8



CABINET DETAILS

SCALE
1 1/2" = 1'-0"

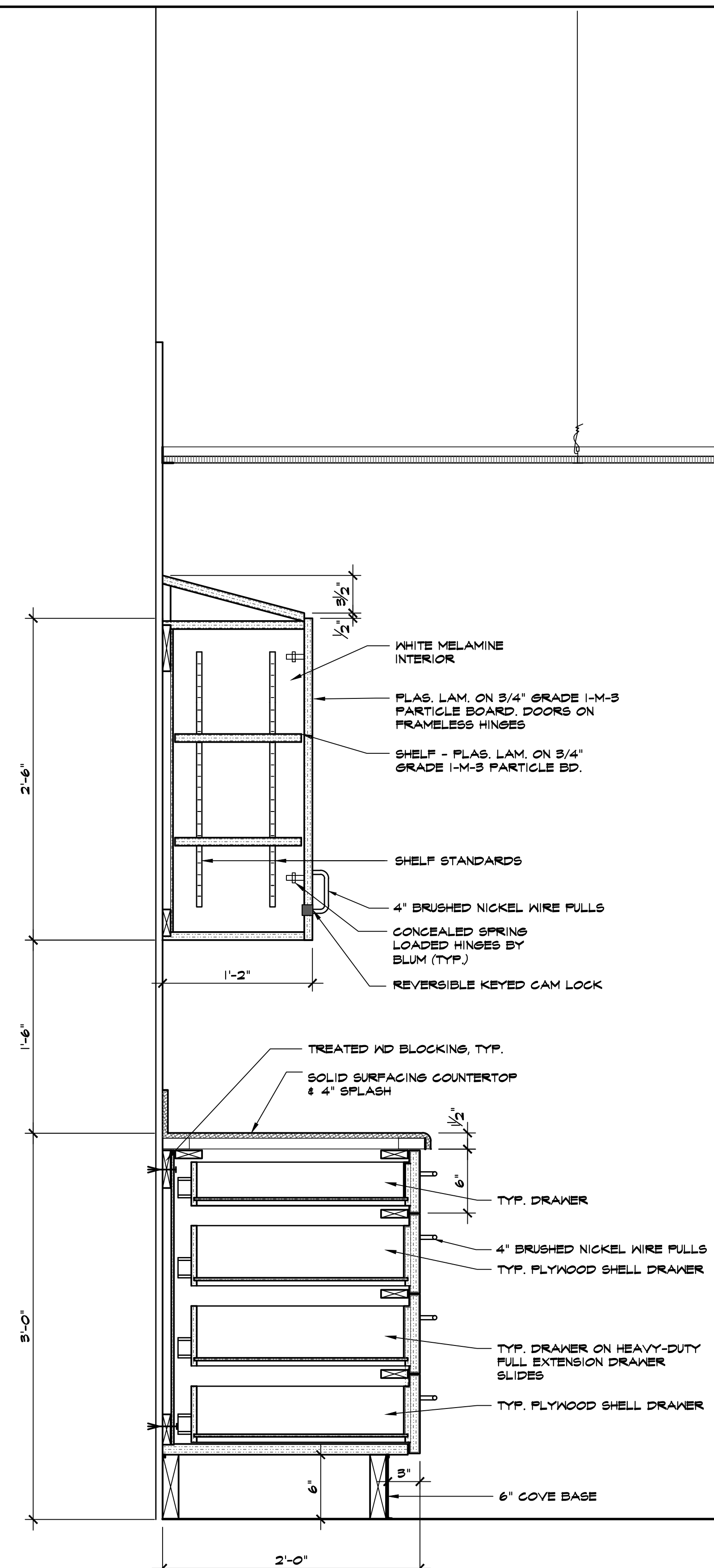
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CABINET DETAILS

SCALE
1 1/2" = 1'-0"

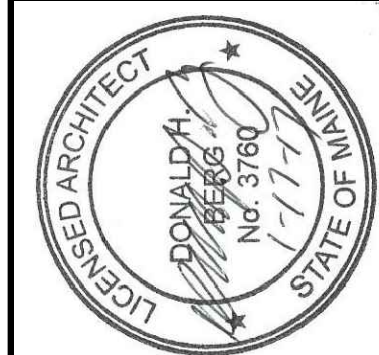
2



CABINET DETAILS

SCALE
1 1/2" = 1'-0"

3



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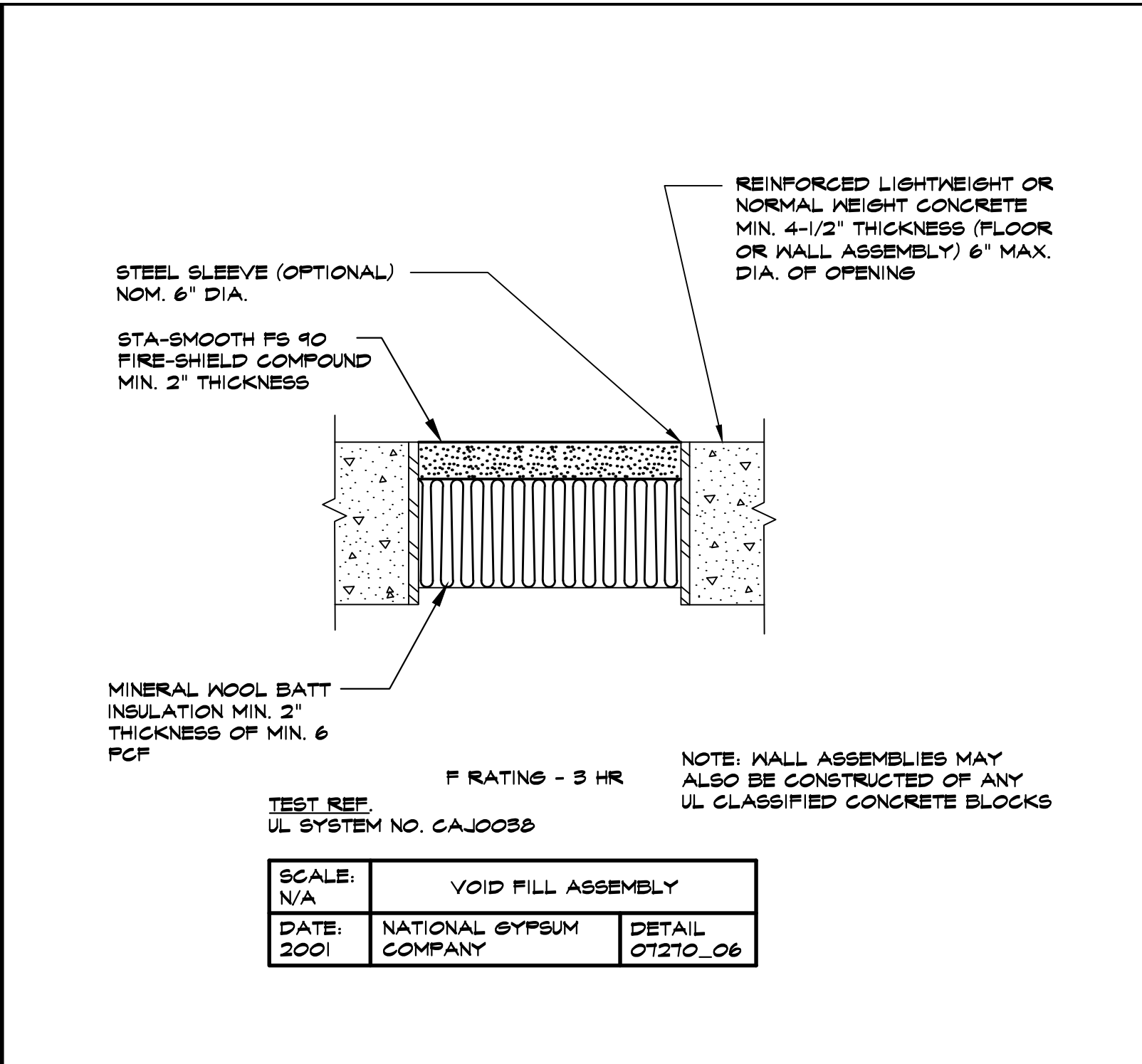
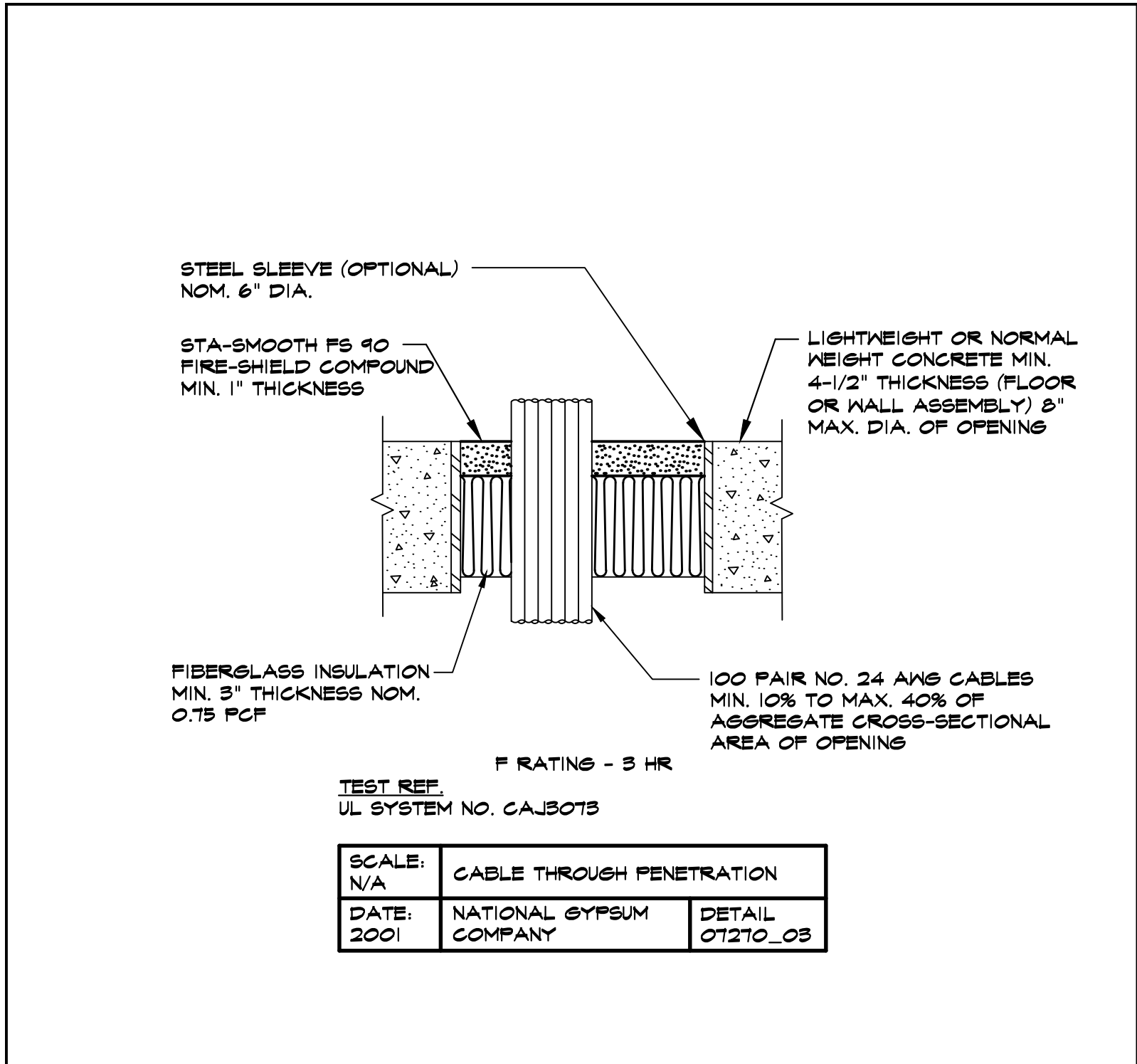
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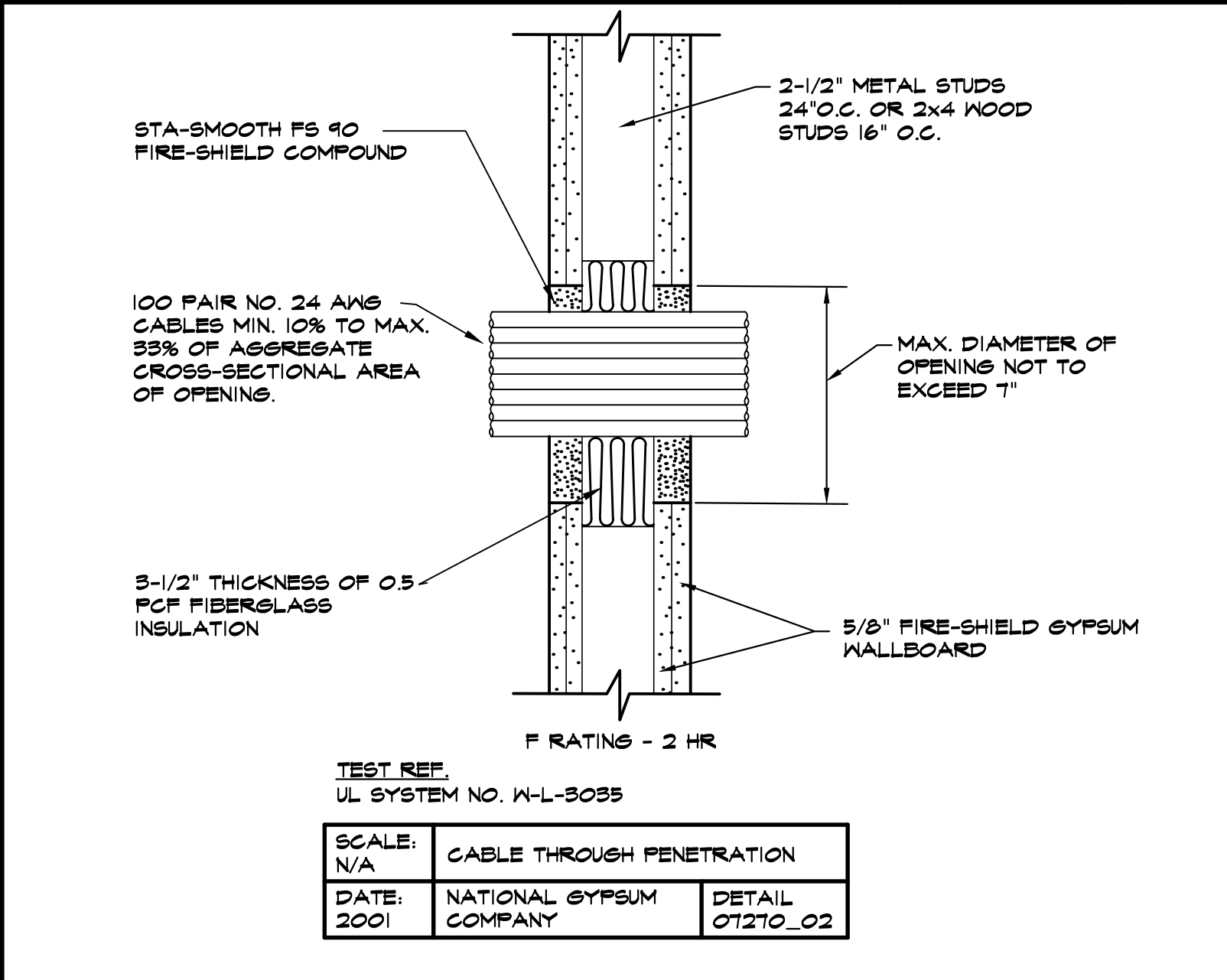
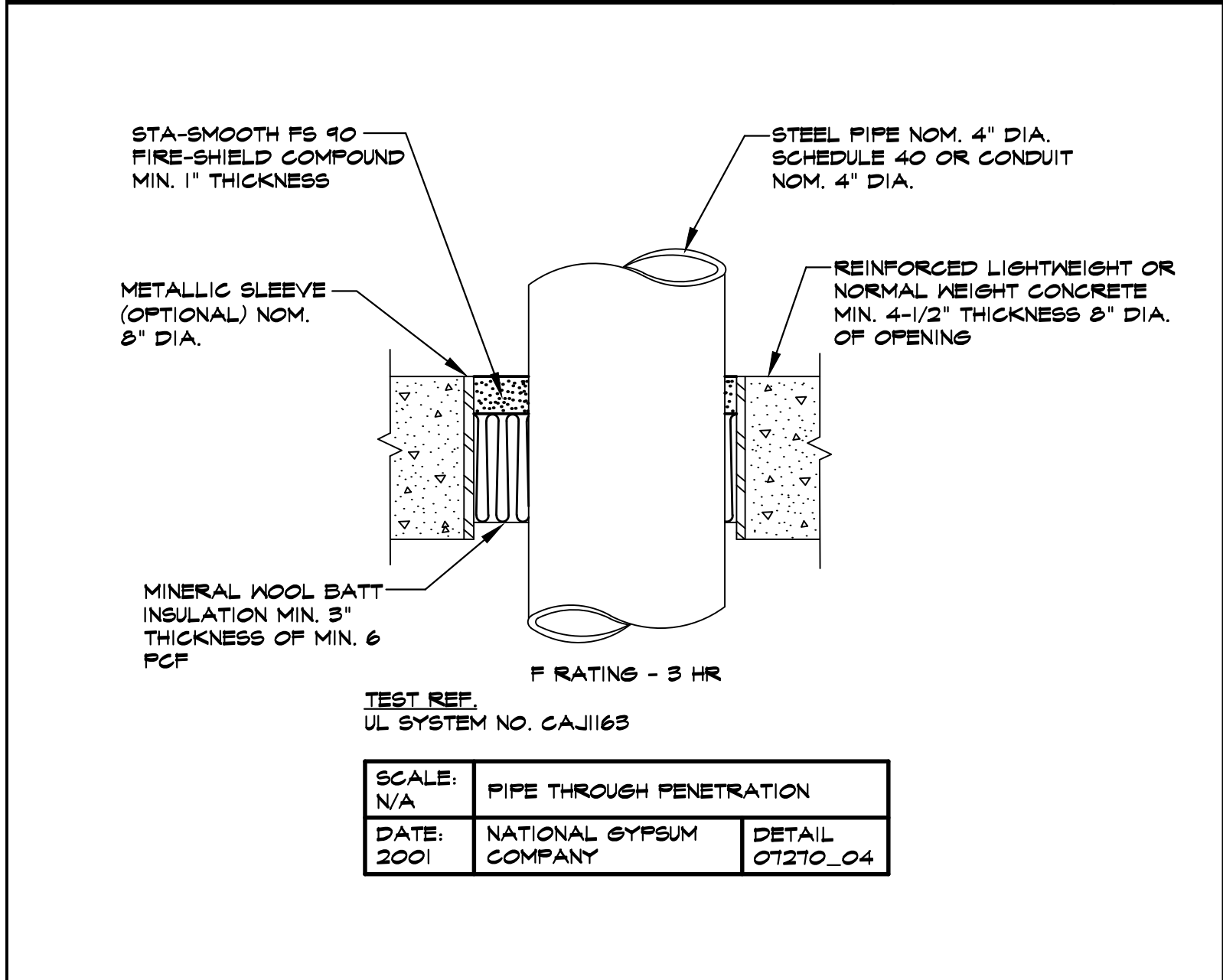
SHEET TITLE
CABINET
DETAILS
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SHEET NO.

A-9



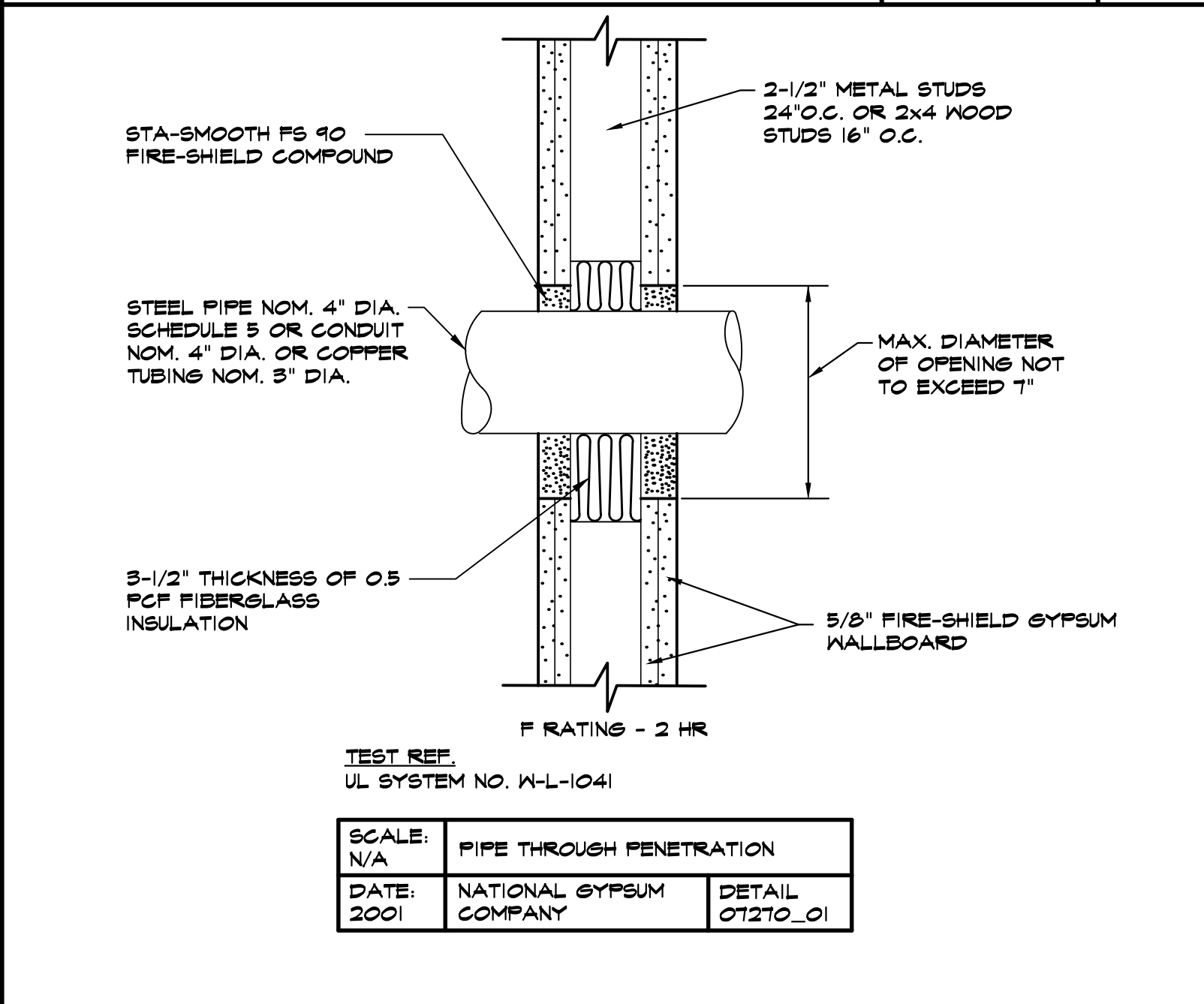
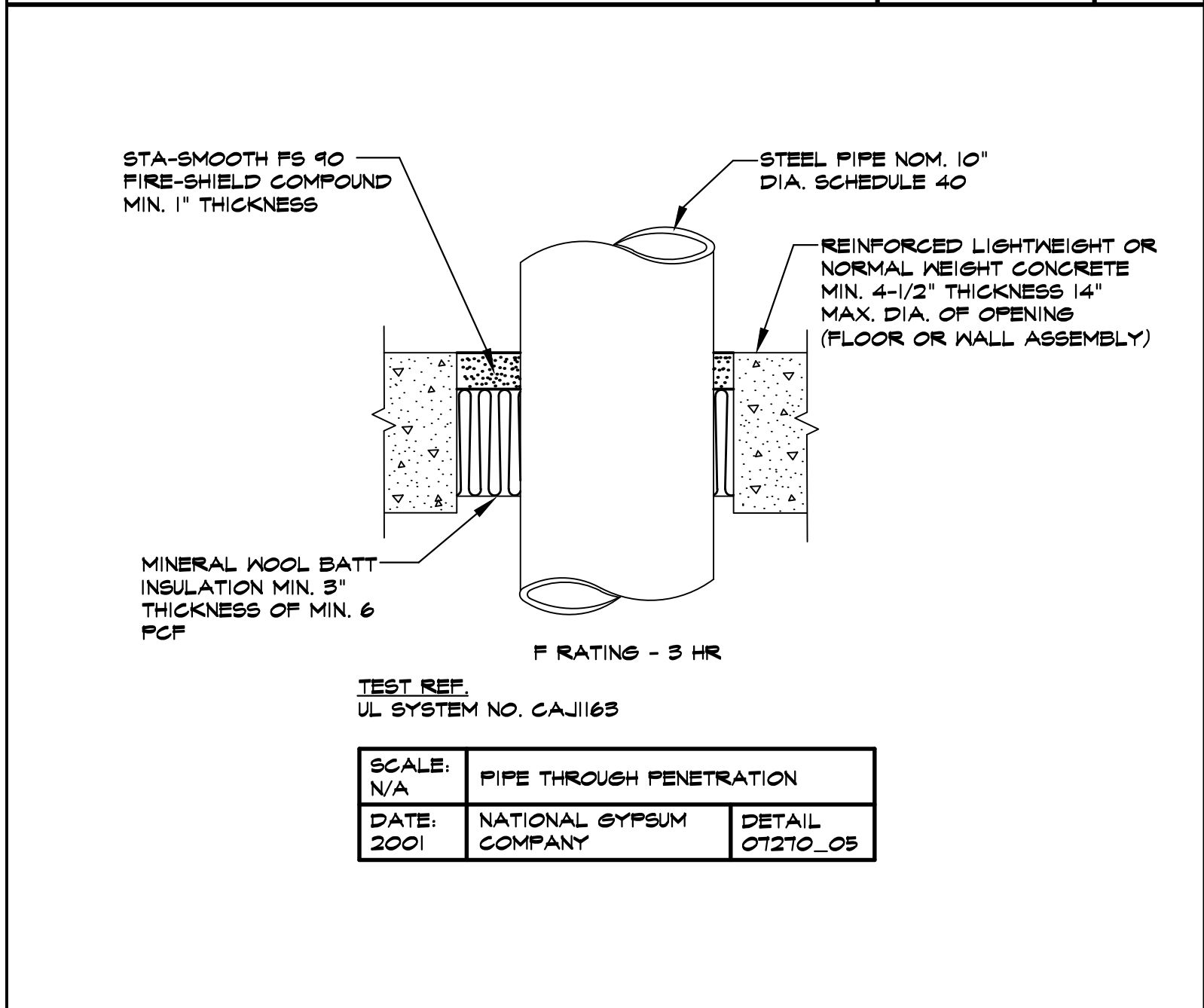
SLAB PENETRATION DETAIL SCALE N.T.S. 1

SLAB VOID FILL DETAIL SCALE N.T.S. 4



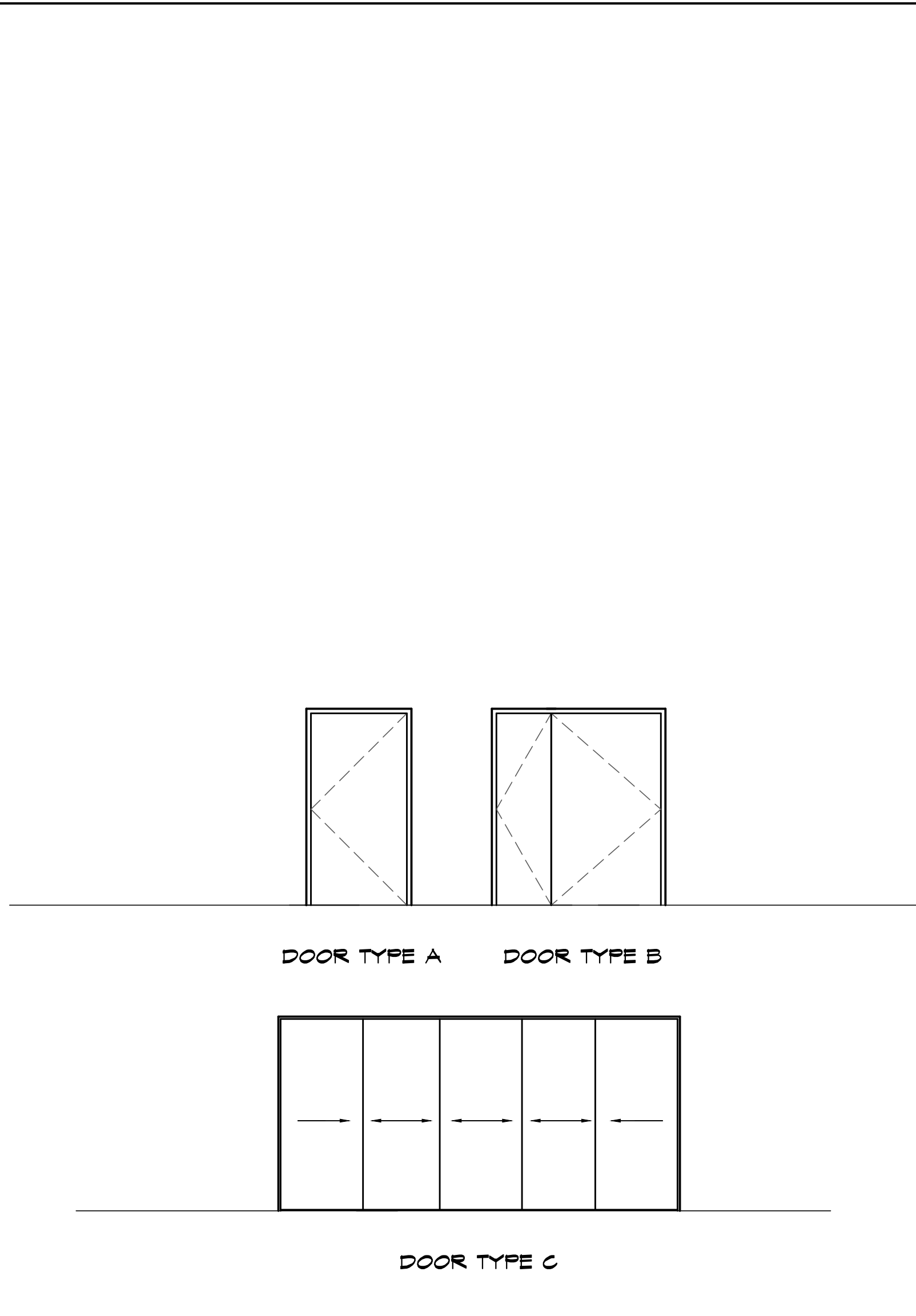
SLAB PENETRATION DETAIL SCALE N.T.S. 2

WALL PENETRATION DETAIL SCALE N.T.S. 5



SLAB PENETRATION DETAIL SCALE N.T.S. 3

WALL PENETRATION DETAIL SCALE N.T.S. 6



DOOR TYPES SCALE 3/8" = 1'-0" 7

NO.	SIZE	DOOR	DETAIL	FRAME	LABEL	GLASS	ELEV.	HARDWARE	REMARKS
1	5'-6" x 7'-0" x 1 3/4"	LEAD-LINED SOLID CORE WOOD	-	EXISTING LEAD-LINED HOLLOW METAL	-	-	B	SET #4	SEE NOTE 1, 3
2	3'-0" x 7'-0" x 1 3/4"	LEAD-LINED SOLID CORE WOOD	J-2	LEAD-LINED HOLLOW METAL	-	-	A	SET #3	SEE NOTE 1
3	14'-5 3/4" x 7'-0"	SOLID CORE WOOD - SLIDING	-	ALUMINUM W/ THRESHOLD	-	-	C	SET #5	SEE NOTE 2
4	4'-0" x 7'-0" x 1 3/4"	SOLID CORE WOOD	J-1	HOLLOW METAL	-	-	A	SET #1	
5	4'-0" x 7'-0" x 1 3/4"	SOLID CORE WOOD	J-1	HOLLOW METAL	-	-	A	SET #2	
X	EXISTING TO REMAIN	EXISTING		EXISTING				EXISTING	

NOTES:
1. PROVIDE 3/32" LEAD LINING.
2. PROVIDE LOW PROFILE ALUMINUM THRESHOLD.
3. 4070 ACTIVE LEAD W/ 1670 INACTIVE LEAF PAIR OF DOORS.

JAMB DETAILS J-1 AND J-2 ARE ON SHEET A-7.

DOOR SCHEDULE SCALE N.T.S. 9

NUMBER	NAME	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	REMARKS
C101	INJECTION	-	6" RUBBER	PAINT	24"x24" ACOUSTIC TILE	8'-1"	
C101A	ELEC. CLOSET	-	-	-	-	-	
C101B	EQUIPMENT ROOM	-	6" RUBBER	EXISTING	24"x24" ACOUSTIC TILE	8'-1"	
102	CT CONTROL	SEAMLESS VINYL	6" SEAMLESS VINYL	PAINT	24"x24" ACOUSTIC TILE	8'-2 1/2"	
102A	ELEC. CLOSET	SEAMLESS VINYL	6" SEAMLESS VINYL	PAINT	-	-	NOTE 1
104	CT EXAM ROOM	SEAMLESS VINYL	6" SEAMLESS VINYL	PAINT	24"x24" ACOUSTIC TILE	8'-2 1/2"	
108A	STORAGE	-	-	-	-	-	
180	CORRIDOR	-	MATCH EXISTING	PAINT AS REQUIRED	PATCH AS REQUIRED	EXISTING	
183	CORRIDOR	PATCH IF REQUIRED	MATCH EXISTING	PAINT AS REQUIRED	PATCH AS REQUIRED	EXISTING	

NOTES:
1. NO CEILING DUE TO HEIGHT OF EXISTING ELECTRICAL PANELS.

FINISH SCHEDULE SCALE N.T.S. 10

NO.	SIZE	TYPE	FRAME	GLASS	DETAIL	REMARKS
A	5'-0" W X 3'-0" H	FIXED	LEAD LINED METAL FRAME W/ APPLIED STOPS	CLEAR LEAD GLASS	3A-B	NOTE 1

NOTES:
1. LEAD GLASS WINDOW SHALL LEAD EQUIVALENCY OF 3/32" LEAD IN LEAD LINED HOLLOW METAL FRAME (3/32" LEAD).

WINDOW SCHEDULE SCALE N/A 11

HARDWARE SET #1	
2 PAIR	BUTTS BB1271 4 1/2 X 4 1/2
1	LOCKSET (CLASSROOM) SARGENT 10605 L-TYPE
1	LEVER WITH 6 PIN 10 LINE NON-INTERCHANGEABLE CORE
1	FLOOR STOP (YES #FS44)
3	SILENCERS 20
HARDWARE SET #2	
2 PAIR	BUTTS BB1271 4 1/2 X 4 1/2
1	LOCKSET (STOREROOM) SARGENT 10605 L-TYPE
1	LEVER WITH 6 PIN 10 LINE NON-INTERCHANGEABLE CORE
1	ASTRALAL - METAL FULL HEIGHT
1	FLOOR STOP (YES #FS44)
3	SILENCERS 20
HARDWARE SET #3	
1	RIXSON #LI4T 3/4" OFFSET PIVOT HINGE (BOTTOM)
1	RIXSON #LI80 3/4" OFFSET PIVOT HINGE(TOP)
1	RIXSON #ML19 3/4" OFFSET INTERMEDIATE PIVOT HINGE
1	LOCKSET (PASSAGE) SARGENT 10605 L-TYPE LEVER
1	WITH 6 PIN 10 LINE NON-INTERCHANGEABLE CORE
1	FLOOR STOP (YES #FS44)
1	CLOSURE - SURFACE MOUNTED
3	SILENCERS 20
1	ARMOR PLATE 36" X (DOOR MINUS 2") (VERIFY FIT AROUND LOCKSET)
HARDWARE SET #4	
2	RIXSON #LI4T 3/4" OFFSET PIVOT HINGES (BOTTOM)
2	RIXSON #LI80 3/4" OFFSET PIVOT HINGES(TOP)
2	RIXSON #ML19 3/4" OFFSET INTERMEDIATE PIVOT HINGES
1	DEADBOLT SARGENT 6 PIN 10 LINE
1	NON-INTERCHANGEABLE CORE
1	ROCKWOOD PUSH PULL COMBINATION 10TX10 US32D
1	ASTRALAL (LEAD LINED) 7'-0" H
1	FLOOR STOP (YES #FS44)
2	SILENCERS 20
2	ARMOR PLATE 36" X (DOOR MINUS 2") (VERIFY FIT AROUND LOCKSET)
HARDWARE SET #5	
3	BY-PASS SLIDING DOOR HARDWARE SET INCLUDING
3	LOW PROFILE ALUMINUM THRESHOLD AND UPPER ROLLER GUIDES
3	DOOR PULLS, (YES 221B-1 WROUGHT BRASS ROUND
3	FLUSH PULL, 2 1/16" DIAMETER, SATIN NICKEL
NOTES:	
1. RIXSON OR EQUAL HINGES	
2. CONTINUOUS HINGES CAN BE SUBSTITUTED BUT ARCHITECT STRONGLY ENCOURAGES USE OF OFFSET PIVOT HINGES	
3. VA MUST VERIFY HARDWARE SCHEDULE, KEYING AND OTHER REQUIREMENTS PRIOR TO ORDERING	

HARDWARE SCALE N/A 8

NO.	SIZE	DOOR	DETAIL	FRAME	LABEL	GLASS	ELEV.	HARDWARE	REMARKS
1	5'-6" x 7'-0" x 1 3/4"	LEAD-LINED SOLID CORE WOOD	-	EXISTING LEAD-LINED HOLLOW METAL	-	-	B	SET #4	SEE NOTE 1, 3
2	3'-0" x 7'-0" x 1 3/4"	LEAD-LINED SOLID CORE WOOD	J-2	LEAD-LINED HOLLOW METAL	-	-	A	SET #3	SEE NOTE 1
3	14'-5 3/4" x 7'-0"	SOLID CORE WOOD - SLIDING	-	ALUMINUM W/ THRESHOLD	-	-	C	SET #5	SEE NOTE 2
4	4'-0" x 7'-0" x 1 3/4"	SOLID CORE WOOD	J-1	HOLLOW METAL	-	-	A	SET #1	
5	4'-0" x 7'-0" x 1 3/4"	SOLID CORE WOOD	J-1	HOLLOW METAL	-	-	A	SET #2	
X	EXISTING TO REMAIN	EXISTING		EXISTING				EXISTING	

NOTES:
1. PROVIDE 3/32" LEAD LINING.
2. PROVIDE LOW PROFILE ALUMINUM THRESHOLD.
3. 4070 ACTIVE LEAD W/ 1670 INACTIVE LEAF PAIR OF DOORS.

JAMB DETAILS J-1 AND J-2 ARE ON SHEET A-7.

DOOR SCHEDULE SCALE N.T.S. 9

NUMBER	NAME	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	REMARKS
C101	INJECTION	-	6" RUBBER	PAINT	24"x24" ACOUSTIC TILE	8'-1"	
C101A	ELEC. CLOSET	-	-	-	-	-	
C101B	EQUIPMENT ROOM	-	6" RUBBER	EXISTING	24"x24" ACOUSTIC TILE	8'-1"	
102	CT CONTROL	SEAMLESS VINYL	6" SEAMLESS VINYL	PAINT	24"x24" ACOUSTIC TILE	8'-2 1/2"	
102A	ELEC. CLOSET	SEAMLESS VINYL	6" SEAMLESS VINYL	PAINT	-	-	NOTE 1
104	CT EXAM ROOM	SEAMLESS VINYL	6" SEAMLESS VINYL	PAINT	24"x24" ACOUSTIC TILE	8'-2 1/2"	
108A	STORAGE	-	-	-	-	-	
180	CORRIDOR	-	MATCH EXISTING	PAINT AS REQUIRED	PATCH AS REQUIRED	EXISTING	
183	CORRIDOR	PATCH IF REQUIRED	MATCH EXISTING	PAINT AS REQUIRED	PATCH AS REQUIRED	EXISTING	

NOTES:
1. NO CEILING DUE TO HEIGHT OF EXISTING ELECTRICAL PANELS.

FINISH SCHEDULE SCALE N.T.S. 10

NO.	SIZE	TYPE	FRAME	GLASS	DETAIL	REMARKS
A	5'-0" W X 3'-0" H	FIXED	LEAD LINED METAL FRAME W/ APPLIED STOPS	CLEAR LEAD GLASS	3A-B	NOTE 1

NOTES:
1. LEAD GLASS WINDOW SHALL LEAD EQUIVALENCY OF 3/32" LEAD IN LEAD LINED HOLLOW METAL FRAME (3/32" LEAD).

WINDOW SCHEDULE SCALE N/A 11

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SHEET TITLE
SCHEDULES & DETAILS

DATE
JUNE 16, 2016

PROJECT NO.
0316-02

SHEET NO.
A-10

GENERAL PROJECT NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS AS PART OF THIS DRAWING SET INCLUDING ARCHITECTURAL, MECHANICAL, FIRE PROTECTION, PLUMBING, ELECTRICAL, AND PHILIPS DRAWINGS PRIOR TO SUBMITTING A BID. REPORT ANY DISCREPANCIES TO ARCHITECT OR APPLICABLE ENGINEER PRIOR TO BID.
2. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OR HOSPITAL OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

DIVISION 1 - GENERAL REQUIREMENTS

CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF ACCEPTANCE AND SHALL ADVISE HOSPITAL IN WRITING OF ANY HOSPITAL REQUIRED MAINTENANCE TO MAINTAIN WARRANTY.

CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.

ALL REQUIRED INSURANCE TO BE PROVIDED FOR THE PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

CONTRACTOR SHALL SUBMIT FOR APPROVAL ALL PRODUCT ITEMS SUCH AS CABINETS, FLOORING, BASE, CEILING TILES AND GRID, LIGHT FIXTURES, ELECTRICAL DEVICES, ETC.

DIVISION 2 - SITE WORK (DEMOLITION)

REMOVE ALL ITEMS AS SHOWN IN THE DRAWINGS.

REMOVE VARIOUS PARTITIONS AS SHOWN, SOME MAY BE MASONRY.

REMOVE DOORS, FRAMES (SOME LEAD-LINED) AND ONE LEADED VIEW WINDOW.

REMOVE AND STORE EXISTING PATIENT LIFT SYSTEM.

REMOVE ALL UNNECESSARY ELECTRICAL CONDUITS AND LIGHTING FIXTURES, ELECTRICAL DEVICES, ETC. AS REQUIRED FOR THE NEW WORK.

REMOVE SUSPENDED CEILINGS AND GRID. IF REQUESTED, TURN OVER ALL CEILING TILE TO THE HOSPITAL FOR THEIR USE.

REMOVE EXISTING DUCTWORK AS INDICATED.

REMOVE EXISTING SHELVES, BASE / WALL CABINETS AND SINKS WHERE SHOWN.

DIVISION 3 - CONCRETE - N/A

DIVISION 4 - MASONRY

PATCH AND REPAIR MASONRY WALLS WHERE NEW PENETRATIONS ARE BEING MADE.

DIVISION 5 - METALS

PROVIDE UNISTRUT (OR EQUAL) ENGINEERED METAL FRAMING SYSTEMS FOR ALL CEILING MOUNTED EQUIPMENT. FRAMING DESIGNS SHALL BE DONE BY A STRUCTURAL ENGINEER LICENSED IN THE UNITED STATES AND SHALL BEAR HIS SEAL / SIGNATURE.

DIVISION 6 - WOOD & PLASTICS

ALL MILLWORK SHALL BE AWI CUSTOM GRADE. PLASTIC LAMINATE SHALL BE MANUFACTURED BY WILSON ART, FORMICA OR SIMILAR. COLOR AS SELECTED BY VA.

CABINETS / COUNTERTOPS:

- A. SOLID SURFACE COUNTERTOPS: CORIAN 1/2" THICK, LINEN SATIN FINISH WHERE SHOWN.
B. PLASTIC LAMINATE COUNTERTOPS: WILSON ART OR FORMICA WHERE SHOWN.
C. SPLASH: CORIAN 1/2" THICK, LINEN SATIN FINISH.
D. SHELVES: MELAMINE OVER GRADE 2-M-2 PARTICLE BOARD OR PLYWOOD.
E. EXPOSED VERTICAL SURFACES: PLASTIC LAMINATE OVER GRADE 1-M-3 PARTICLE BOARD OR PLYWOOD.
F. SEMI-EXPOSED SURFACES: PLASTIC LAMINATE OVER GRADE 1-M-3 PARTICLE BOARD EXCEPT DRAINER SHELLS OF MELAMINE.

DIVISION 7 - THERMAL & MOISTURE PROTECTION

CAULK AND SEAL ALL PENETRATIONS THROUGH ALL PARTITIONS AND SLABS IN ACCORDANCE WITH NEC 300-21. SEE EXAMPLE DRAWINGS ON SHEET A-10. PENETRATIONS THROUGH CORRIDOR PARTITIONS, ADJOINING ROOMS AND SLABS SHALL BE SEALED OR SLEEVED AND SEALED IN ACCORDANCE WITH THE SPECIFICATIONS TO STOP AIR PASSAGE.

PROVIDE R-19 FIBERGLASS BLANKET INSULATION WHERE EXTERIOR WINDOWS ARE BEING BLOCKED OFF. INSULATION SHALL BE SIMILAR TO OWENS CORNING ECOTOUCH INSULATION.

DIVISION 8 - DOORS & WINDOWS

PROVIDE SOLID CORE STRUCTURAL COMPOSITE LUMBER (SCL) WOOD DOORS WITH VENEER AND FINISH TO MATCH EXISTING. HOLLOW METAL FRAMES SHALL BE 16 GAUGE.

SEE DIVISION 13 FOR LEAD LINED DOORS AND FRAMES.

SEE DIVISION 13 FOR LEAD GLASS WINDOWS AND LEAD LINED FRAMES.

DIVISION 9 - FINISHES

STANDARD CEILINGS SHALL BE CLASS A, NON-COMBUSTIBLE 24"x24"x5/8" AND 24"x48"x5/8" LAY-IN ACOUSTIC PANELS IN A SUSPENDED GRID SYSTEM. ACOUSTIC PANELS SHALL BE ARMSTRONGS CLEAN ROOM VL TILE #868 AND #870 WITH A WHITE 15/16" EXPOSED TEE GRID. WIRE HANGERS SHALL BE A MINIMUM OF 12 GAUGE, BRACING WIRES MINIMUM OF 10 GAUGE. FLAME SPREAD ASTM E 1264 FIRE RESISTIVE.

SEAMLESS FLOORING SHALL BE ARMSTRONGS MEDINTECH SEAMLESS VINYL SHEET WITH INTEGRAL 6" ROLLED BASE & TRIM CAPS.. PROVIDE CLEAR SILICONE CAULK WHERE BASE MEETS FLOORING AND WALL SURFACE. FIRE TEST PERFORMANCE OF: ASTM E 648 CRITICAL RADIANT FLUX OF 0.45 WATTS PER SQ. CM. OR GREATER, CLASS I, ASTM E 662 (SMOKE GENERATION) MAXIMUM SPECIFIC OPTICAL DENSITY OF 450 OR LESS.

VGT FLOORING SHALL BE 12" X 12" X 1/8" VINYL COMPOSITION TILE FLOORING WITH 1/8" TOP-SET VINYL OR RUBBER COVERED BASE 6" HIGH AS INDICATED IN ELEVATIONS. FIRE TEST PERFORMANCE OF: ASTM E 648 CRITICAL RADIANT FLUX OF 0.45 WATTS PER SQ. CM. OR GREATER, CLASS I, ASTM E 662 (SMOKE GENERATION) MAXIMUM SPECIFIC OPTICAL DENSITY OF 450 OR LESS.

PAINT ALL NEW GYPSUM WALL BOARD WITH ONE (1) COAT PRIMER AND TWO (2) FINISH COATS OF SHERWIN WILLIAMS PAINT.

PAINT PREVIOUSLY PAINTED DRYWALL AND OTHER AREAS NEEDING TOUCH UP PAINT WITH TWO (2) FINISH COATS OF SHERWIN WILLIAMS PAINT.

PAINT ALL HOLLOW METAL FRAMES WITH ONE (1) COAT LATEX PRIMER AND TWO (2) COATS SHERWIN WILLIAMS PAINT.

DO NOT USE OIL BASED PAINTS.

ALL STUDS MUST COMPLY WITH ASTM C645. STUDS SHALL BE 20 GAUGE (MIN. OR AS SHOWN) AND HAVE A SECTION DEPTH AS INDICATED.

ALL GYPSUM WALLBOARD SHALL BE 5/8" THICK AND COMPLY WITH ASTM C36 TYPE X.

DIVISION 10 - SPECIALTIES

CONTRACTOR SHALL INSTALL MEDICAL CENTER PROVIDED SOAP AND TOWEL DISPENSERS WHERE SHOWN.

PROVIDE (1) 3'x3'x48" STAINLESS STEEL CORNER GUARDS WHERE SHOWN.

PROVIDE (1) SKY FACTORY 48"x48" RECTILINEAR LUMINOUS SKYCEILING CONSISTING OF (4) 2'x2' SQUARE SECTIONS.

DIVISION 11 - EQUIPMENT - N/A

DIVISION 12 - FURNISHINGS - N/A

DIVISION 13 - SPECIAL CONSTRUCTION

PROVIDE 3/32" LEAD LINED 5/8" GYPSUM WALL BOARD WHERE INDICATED. LEAD SHALL EXTEND FROM FLOOR TO T+0" ABOVE FINISH FLOOR. INCLUDE LEAD CAPS OVER WALL BOARD SCREWS. PROVIDE ROLLED LEAD FOR PATCHING AS REQUIRED. ALL OUTLET BOXES, JUNCTION BOXES, ETC. IN LEADED WALLS SHALL BE LINED WITH 3/32" LEAD.

PROVIDE 3/32" LEAD LINED SOLID CORE STRUCTURAL COMPOSITE LUMBER (SCL) WOOD DOORS AND LEAD LINED 16 GAUGE HOLLOW METAL FRAMES WHERE INDICATED. DOOR FINISH SHALL MATCH EXISTING.

PROVIDE ONE (1) LEAD VIEW WINDOWS. GLASS SHALL HAVE LEAD EQUIVALENCY OF 3/32". FRAME SHALL BE 16 GAUGE HOLLOW METAL WITH APPLIED STOPS AND LINED WITH 3/32" LEAD.

ON 2nd INSTALL 8' x 8' x 1/2" SHEET LEAD DIRECTLY ON CONCRETE FLOOR ABOVE CT ISOCENTER.

IN BASEMENT INSTALL 8' LONG x 1/2" THICK LEAD-LINED PLYWOOD (3/4") DIRECTLY BELOW CT ISOCENTER IN BETWEEN CONCRETE JOISTS WHERE CONCRETE IS THINNEST.

DIVISION 14 - CONVEYING EQUIPMENT - N/A

INSTRUCTIONS - INFECTION CONTROL RISK ASSESSMENT

BASED UPON THE TYPE OF CONSTRUCTION ACTIVITY AND THE PATIENT RISK GROUP, IT IS THE ARCHITECT'S OPINION THAT THE REQUIRED INFECTION CONTROL PRECAUTIONS WILL BE TYPE C, CLASS III. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL VERIFY WITH VA SAFETY PERSONNEL THAT THEY AGREE WITH THIS ASSESSMENT.

CLASS III REQUIREMENTS DURING CONSTRUCTION ARE:

1. CONSTRUCT DUST PARTITION, EXTEND AND SEAL TO CONSTRUCTION ABOVE.
2. ISOLATE HVAC SYSTEM WITHIN WORK AREAS TO PREVENT CONTAMINATION OF DUCT SYSTEM.
3. SEAL DOORS OPENING TO ADJACENT AREAS WITH DUCT TAPE.
4. BLOCK OFF AND SEAL HVAC REGISTERS, GRILLS AND ANY OPENINGS IN DUCTWORK TO REMAIN.
5. MAINTAIN NEGATIVE PRESSURE WITHIN WORK SITE UTILIZING HEPA EQUIPPED AIR FILTRATION UNITS.
6. PLACE DUST MAT AT ENTRANCE AND EXIT OF WORK AREA.
7. COVER CONSTRUCTION WASTE BEFORE TRANSPORT IN COVERED CONTAINERS.

CLASS III REQUIREMENTS UPON COMPLETION OF PROJECT ARE:

1. COVER CONSTRUCTION WASTE BEFORE TRANSPORT IN COVERED CONTAINERS.
2. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL A HEALTH SYSTEM RESPONSIBLE PERSON INSPECTS COMPLETED PROJECT.
3. REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREAD OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
4. WET MOP AND VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA.
5. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK HAS BEING PERFORMED.
6. HOUSEKEEPING TO WIPE WORK SURFACES WITH DISINFECTANT.

NOTE: ALTHOUGH DUSTPROOF PARTITIONS ARE SPECIFICALLY NOT SHOWN ON THESE DRAWINGS, IT IS THE ARCHITECT'S INTENTION THAT ISSUES RELATING TO INFECTION CONTROL, DEMOLITION, NOISE, CONSTRUCTION DISRUPTIONS TO THE HOSPITAL, HOURS OF WORK FOR SPECIFIC TASKS, ETC. BE DISCUSSED AND RESOLVED DURING THE PRE-CONSTRUCTION MEETINGS. CONTRACTOR SHALL PROVIDE AND MAINTAIN STICKY WALK-OFF MATS AT DUST BARRIER LOCATIONS.



DVA PROJECT 402-10-542
CT SUITE ROOM 104 RENOVATION
BUILDING 200, 1st FLOOR
VA MAINE HEALTHCARE SYSTEM
1 VA CENTER
AUGUSTA, MAINE 04330

REVISIONS

RECORD DOCUMENTS
JANUARY 13, 2017

ISSUED FOR:

DATE:

06/16/16

SHEET TITLE

ARCHITECTURAL
SPECIFICATIONS

DATE:

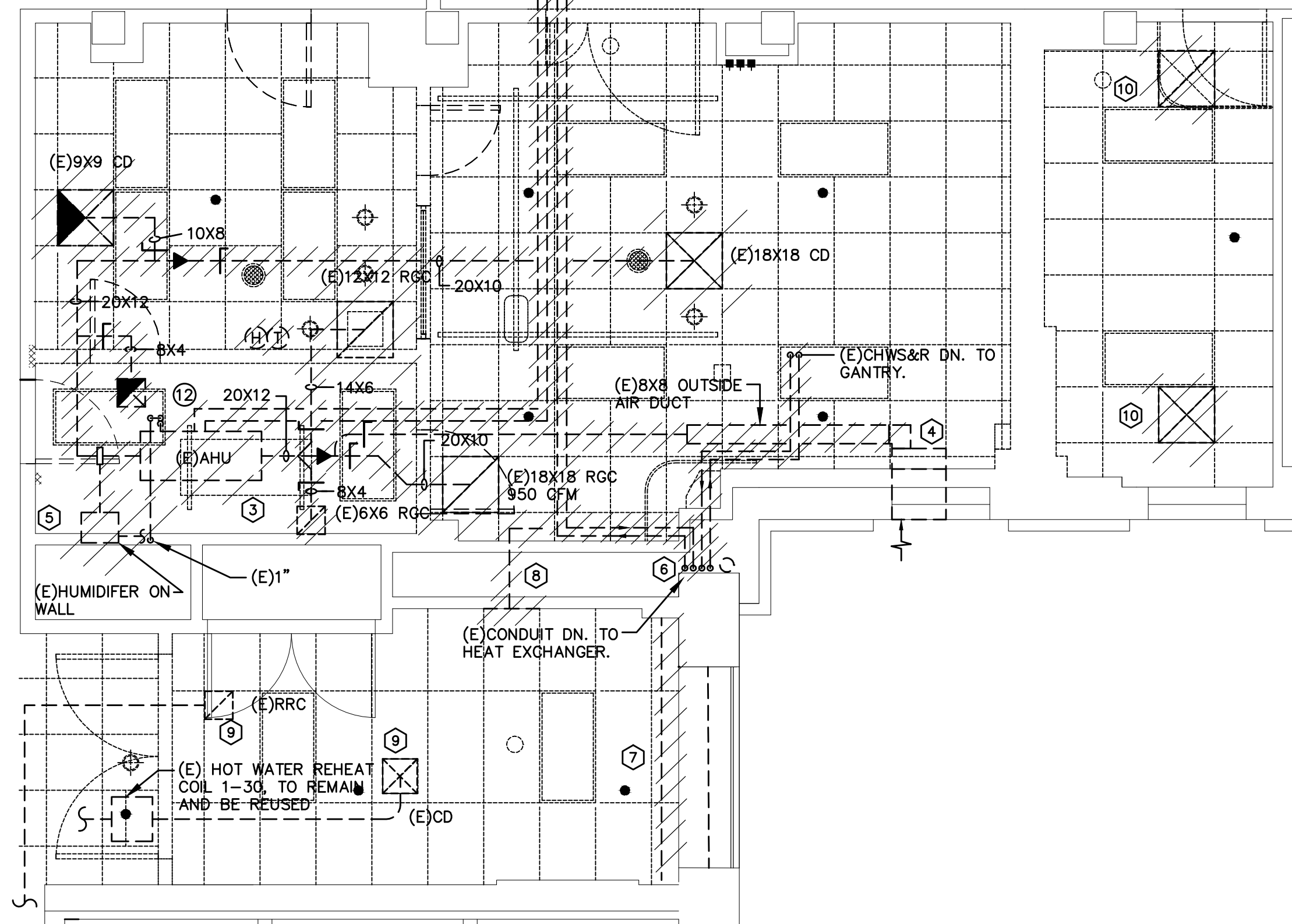
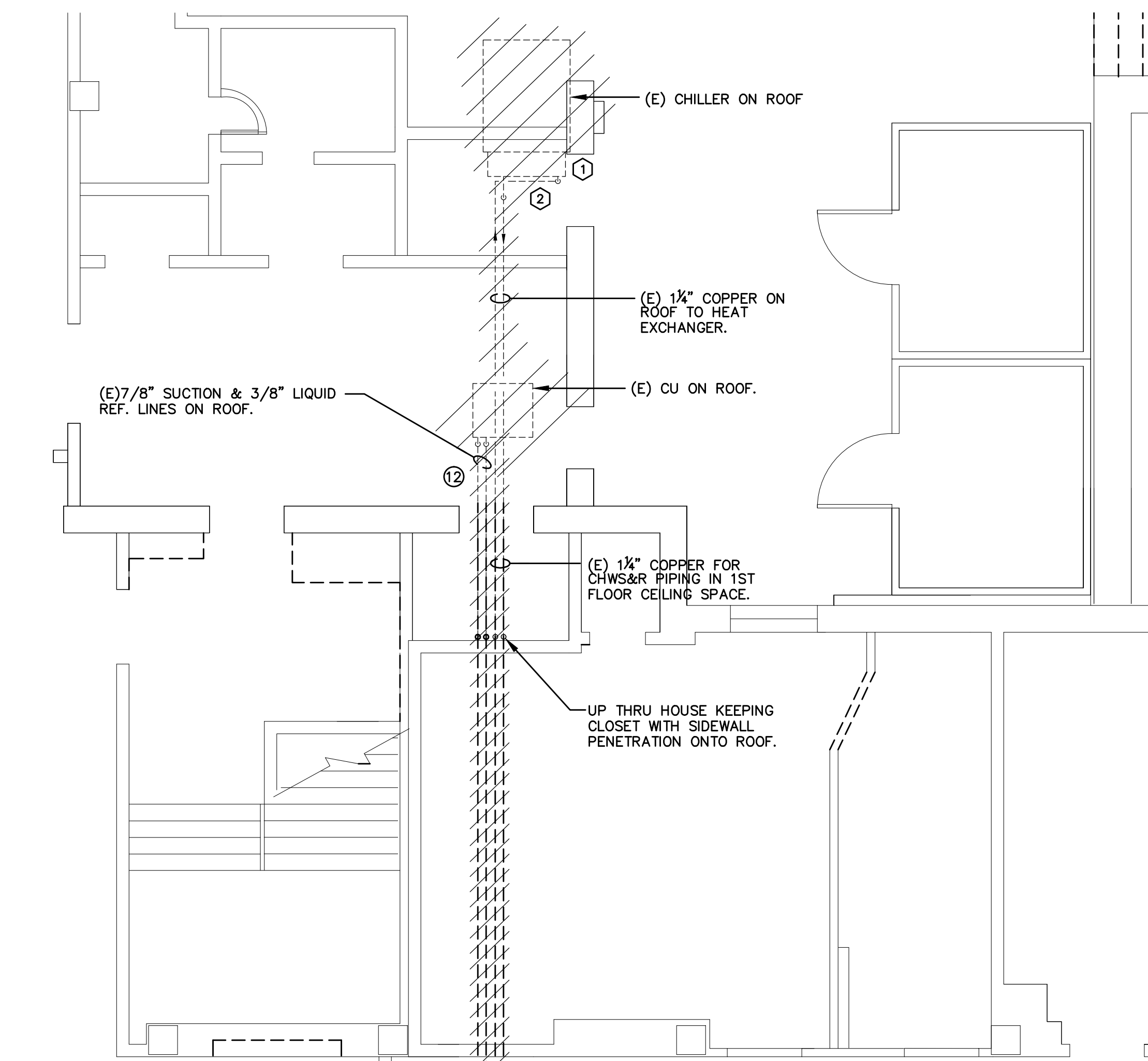
JUNE 16, 2016

PROJECT NO.

0316-02

SHEET NO.

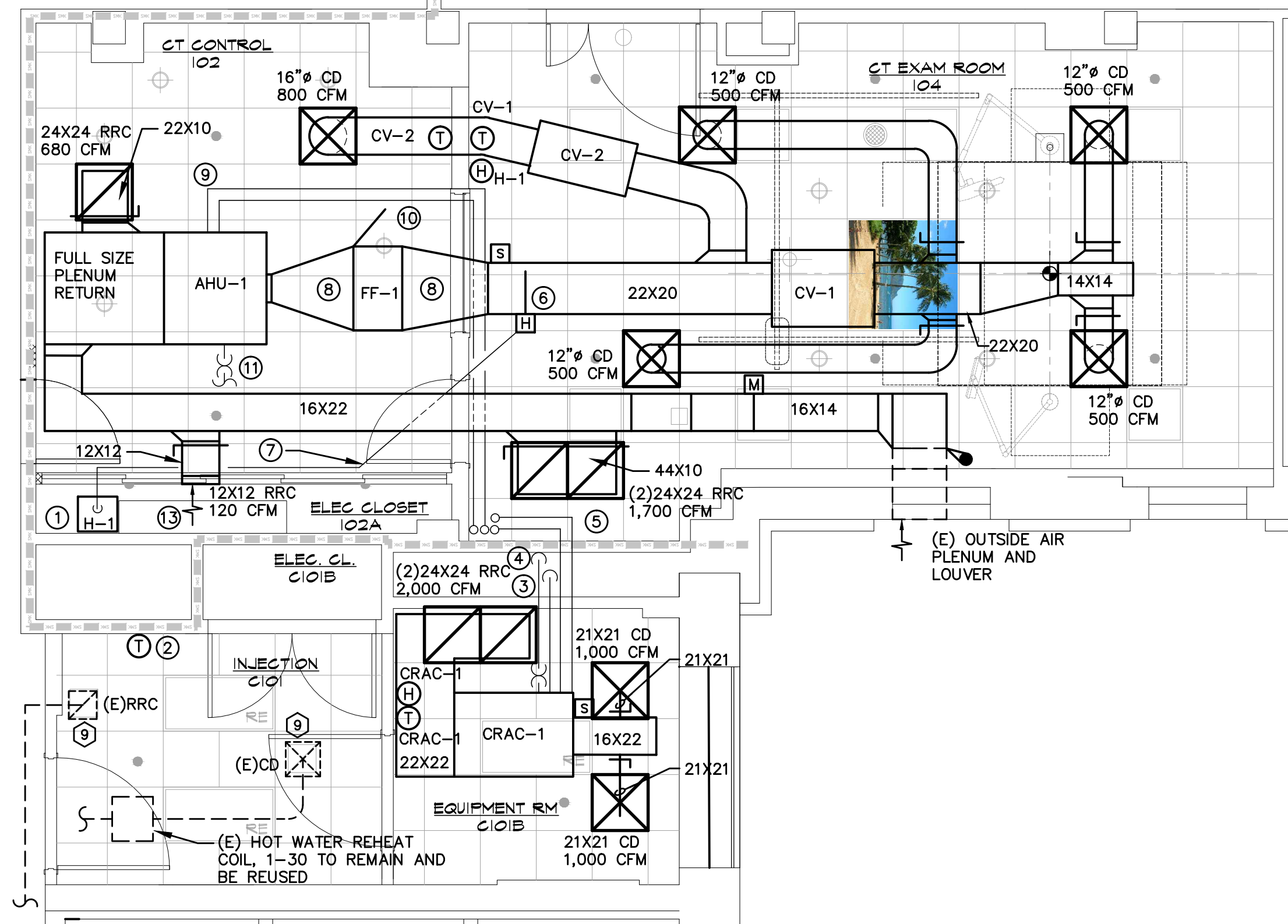
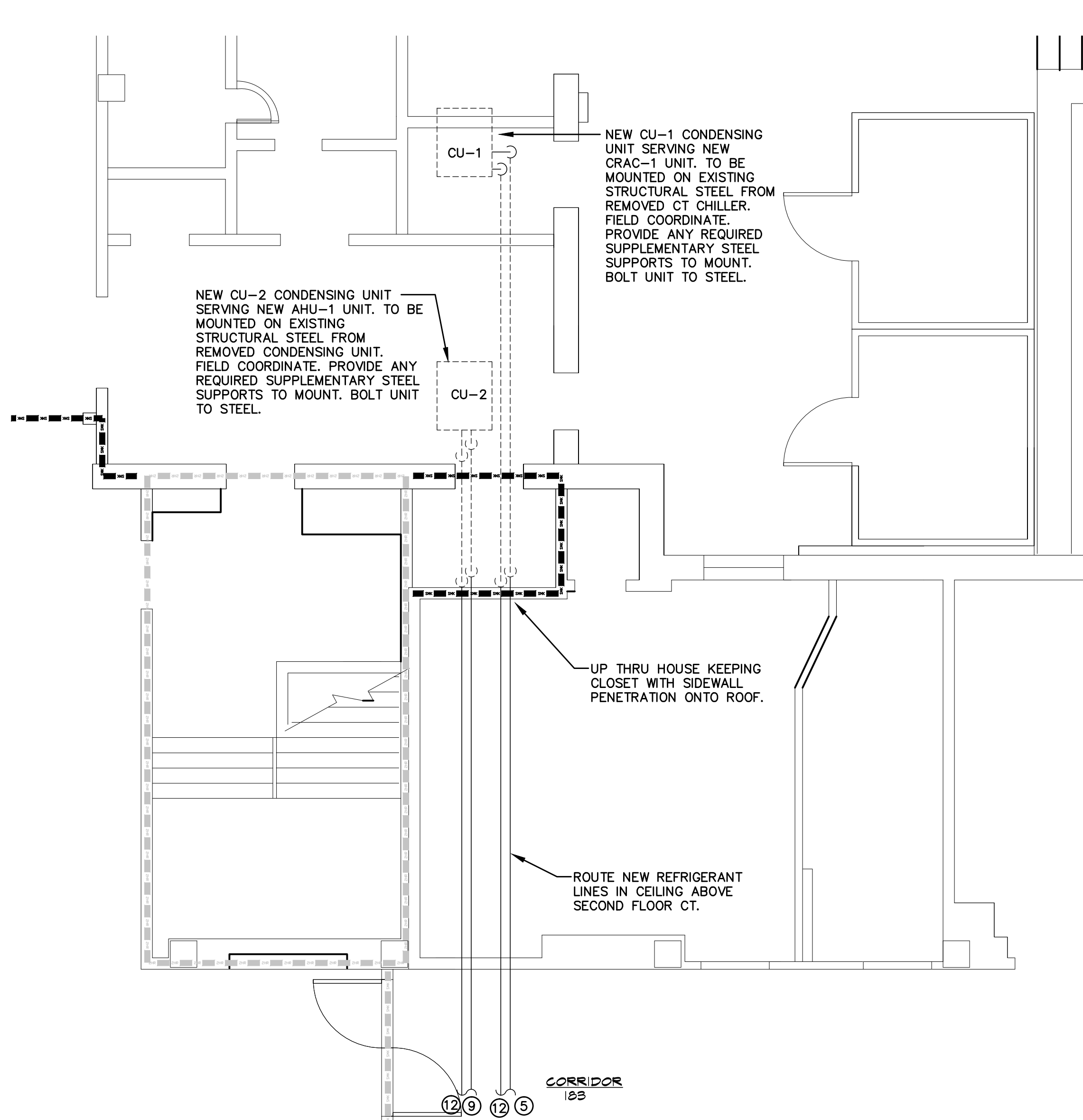
A-11



DEMOLITION PLAN - MECHANICAL
SCALE: 1/8"=1'-0"

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

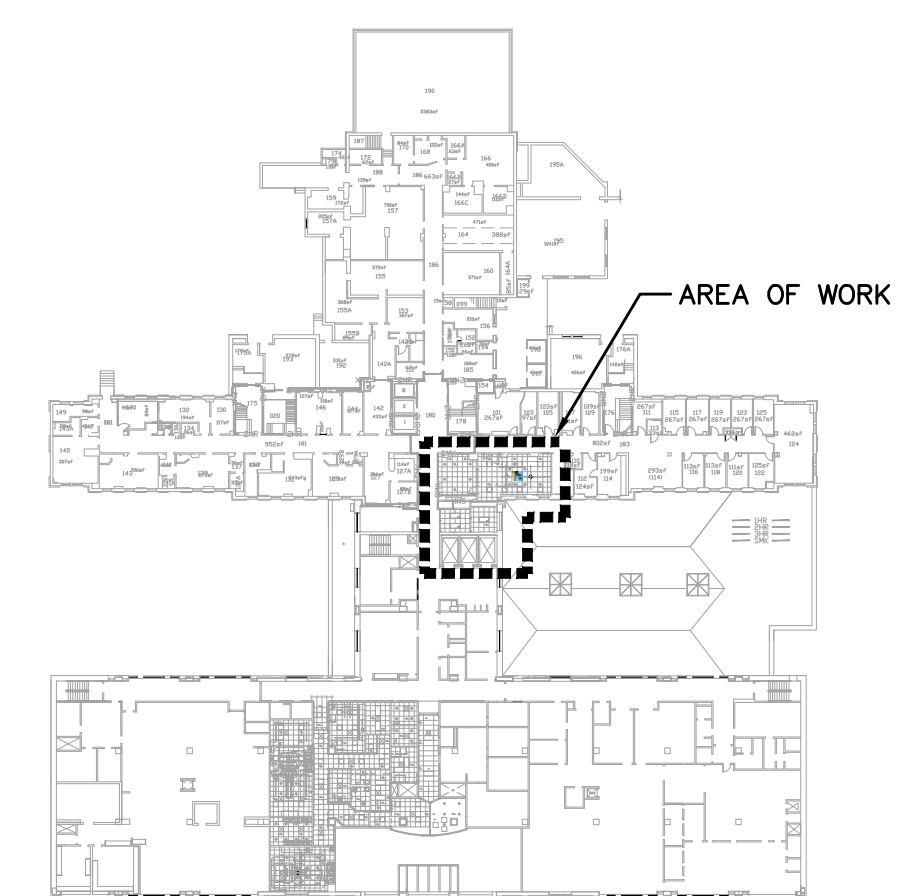
THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE.



FLOOR PLAN - MECHANICAL
SCALE: 1/8"=1'-0"

- CONSTRUCTION NOTES:**
- NEW CLEAN STEAM HUMIDIFIER EQUAL TO NORTEC NH-EL 010, 10 LB/HRS NOMINAL CAPACITY, 1-10 LB/HR RANGE, 3.8KW, 480/1, 7.9 AMPS MQCP. PROVIDE WITH RAPID ABSORPTION WAND, INTERNAL DRAIN COOLER TO 120°F DISCHARGE, FACTORY CONTROLS, DUCT MOUNTED HIGH LIMIT HUMIDISTAT, AIR PROVING SWITCH, WALL MOUNTED HUMIDISTAT. UNIT TO BE LOCATED IN SAME LOCATION OF REMOVED NORTEC HUMIDIFIER UNIT, FIELD COORDINATE EXACT LOCATION ON WALL OF REMOVED UNIT AND NEW UNITS PLACEMENT.
 - EXISTING THERMOSTAT SERVING EXISTING REHEAT COIL 1-30 TO BE RELOCATED TO NEW LOCATION AS SHOWN, SERVICE/ REPLACE AS REQUIRED TO BE FULLY FUNCTIONING.
 - 1" COPPER CONDENSATE LINE OVER AND DOWN TO SINK SIDE OF TRAP OF NEW SINK. INSULATE WITH 1/2" ARMAFLEX
 - 1/2" DOMESTIC WATER LINE TO NEW CRAC-1 HUMIDIFIER GENERATOR CONNECTION BY PLUMBING CONTRACTOR. TIE IN NEAR NEW LAVATORY, SEE PLUMBING SHEETS.
 - 1/2" REFRIGERANT LIQUID, 3/4" REFRIGERANT SUCTION ABOVE SECOND FLOOR CEILING AND OVER TO NEW CU-1 ON ROOF ABOVE. SIZES ARE FOR BIDDING PURPOSES ONLY, MANUFACTURER TO PROVIDE FINAL SIZES PER FINAL REFRIGERANT RUN.
 - CLEAN STEAM RAPID ABSORPTION DISTRIBUTION WAND. MAINTAIN REQUIRED CLEARANCES FROM DUCT TURNS AND BRANCH LINES, INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - CLEAN STEAM DISTRIBUTION PIPE ROUTED TO WAND, SIZE AND MATERIAL PER MANUFACTURERS REQUIREMENTS/ SPECIFICATIONS.
 - TRANSITION DUCTWORK TO FULL SIZE FILTER BANK FACE PER FILTER BANK MANUFACTURER RECOMMENDATIONS AND SMACNA STANDARDS.
 - 7/8" REFRIGERANT LIQUID, 1-3/8" REFRIGERANT SUCTION ABOVE SECOND FLOOR CEILING AND OVER TO NEW CU-2 ON ROOF ABOVE. SIZES ARE FOR BIDDING PURPOSES ONLY, MANUFACTURER TO PROVIDE FINAL SIZES PER FINAL REFRIGERANT RUN.
 - FINAL FILTER CASE TO BE LOCATED SO THAT FILTERS CAN BE CHANGED WITHOUT REMOVING CEILING GRID. MAINTAIN CLEARANCE IN FRONT OF FILTER ACCESS.
 - 1-1/4" COPPER CONDENSATE LINE OVER AND DOWN TO SINK SIDE OF TRAP OF NEW LAVATORY. INSULATE WITH 1/2" ARMAFLEX.
 - IF POSSIBLE, REUSE EXISTING REFRIGERANT LINES SERVING REMOVED AHU AND CONDENSING UNIT. CLEAN AND FLUSH AS REQUIRED FOR NEW REFRIGERANT TYPE PER NEW MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS. CONSULT NEW EQUIPMENT MANUFACTURER FOR NEW REFRIGERANT LINE SIZES AND COMPATIBILITY WITH EXISTING REFRIGERANT LINES. ONLY WITH MANUFACTURER APPROVAL CAN LINES BE REUSED / RE-PURPOSED.
 - NO PIPING OR DUCTWORK SHALL RUN OVER ANY ELECTRICAL EQUIPMENT. FIELD COORDINATE. (TYPICAL)

- DEMOLITION NOTES:**
- DISPOSE OF REMOVED EQUIPMENT AS DIRECTED BY OWNER. (TYPICAL)
 - REMOVE EXISTING ROOF MOUNTED CHILLER SERVING REMOVED CT EQUIPMENT, WITH ASSOCIATED CHILLED WATER PIPING AND CONTROLS. THE EXISTING STRUCTURAL STEEL MOUNTING IS TO REMAIN AND BE REUSED TO SUPPORT NEW ROOF MOUNTED EQUIPMENT.
 - REMOVE EXISTING SPLIT SYSTEM AHU WITH ASSOCIATED DUCTWORK CONTROLS, AIR DEVICES, CONDENSING UNIT, REFRIGERANT LINES, ETC. (REMOVE EXISTING REFRIGERANT LINES ONLY IF THEY CANNOT BE REUSED, SEE NOTE CONSTRUCTION NOTE 12)
 - REMOVE EXISTING OUTSIDE AIR DUCTWORK BACK TO OUTSIDE AIR LOUVER PLENUM. OUTSIDE AIR LOUVER PLENUM TO BE REUSED FOR NEW AHU.
 - REMOVE EXISTING WALL HUNG HUMIDIFIER WITH ASSOCIATED CONTROLS AND DISTRIBUTION WAND. NEW HUMIDIFIER TO BE PLACED IN REMOVED LOCATION.
 - REMOVE EXISTING OLD CT EQUIPMENT CHILLED WATER HEAT EXCHANGER CABINET AND ANCILLARY ITEMS FROM FLOOR SPACE BELOW. FIELD COORDINATE EXACT LOCATION OF REMOVED EQUIPMENT.
 - EXISTING BASE BOARD HEAT TO BE REMOVED WITH ASSOCIATED CONTROLS. CAP ASSOCIATED PIPING AS REQUIRED.
 - REMOVE EXISTING ABANDONED SIDE WALL, CAP REMOVE DUCTWORK AS REQUIRED. PATCH WALL TO MATCH EXISTING, MAINTAIN ANY PARTITION RATING AS REQUIRED.
 - EXISTING SUPPLY, AND RETURN TO BE REUSED / RELOCATED TO SERVE NEW INJECTION ROOM. PRE CONSTRUCTION, PROVIDE A TEST AND BALANCE, AIR DEVICES TO BE RE-BALANCED TO PRE-CONSTRUCTION AIRFLOW RATES POST CONSTRUCTION. MODIFY EXISTING DUCTWORK AS REQUIRED TO RELOCATE AIR DEVICES TO NEW LOCATION AS SHOWN IN PLAN. EXTEND FULL SIZE DUCT OR LARGER.
 - REMOVE EXISTING AIR DEVICES FROM REMODELED OFFICE SPACE, REMOVE DUCTWORK BACK OUT OF SPACE. CAP DUCTWORK AS REQUIRED. FIELD COORDINATE.



KEY PLAN
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DVA PROJECT 402-10-542
CT SUITE ROOM 104 RENOVATION
BUILDING 200, 1st FLOOR
VA MAINE HEALTHCARE SYSTEM
1 VA CENTER
AUGUSTA, MAINE 04330

REVISIONS
RECORD DOCUMENTS
JANUARY 18, 2017

ISSUED FOR: _____ DATE: _____
☐ REVIEW
☐ BIDDING
☐ PERMIT
☒ CONSTRUCTION

MECHANICAL FLOOR PLAN

DATE: JUNE 16, 2016
PROJECT NO: 0316-02

SHEET NO:

M-1

- ① SINGLE POINT DISCONNECT BY ELECTRICAL DIVISION
- ② FACTORY DDC CONTROLS AND UNIT MOUNTED INTERFACE, REMOTE TEMPERATURE AND HUMIDITY SENSOR, 3.4 KW – 10 LB/HR CAPACITY STEAM HUMIDIFIER, UPSIZED EVAPORATOR FAN MOTOR FOR INCREASED CFM, HOT GAS BYPASS, LOW AMBIENT OPTIONS FOR COOLING DOWN TO –20°F, CEILING MOUNTED RETURN AIR GRILLE
- ③ THE CONDENSING UNIT CONTAINS A SCROLL COMPRESSOR WITH CRANKCASE HEATER, FILTER DRIER, SIGHT GLASS, AND CONDENSER COIL. THE CONDENSER COIL IS CONSTRUCTED WITH COPPER TUBES AND ALUMINUM FINS. THE GALVANIZED STEEL CONDENSER AND FAN GUARD ARE POWDER COATED FOR LONGER LIFE. THE ENERGY EFFICIENT CONDENSER IS THERMALLY PROTECTED AIR DISCHARGE IS VERTICAL. THE CONDENSER FAN IS VARIABLE SPEED FOR HEAD PRESSURE CONTROL TO –20° F AMBIENT CONDITIONS. VERIFY REFRIGERANT LINE SIZES WITH MANUFACTURER.
- ④ HORIZONTAL UNIT, CONSTANT VOLUME, DISCHARGE AIR TEMPERATURE CONTROL (55°F ADJUSTABLE), EXTERNAL FINAL FILTER BANK WITH MERV 14 FINAL FILTERS.
- ⑤ ALL LOW AMBIENT OPTIONS FOR COOLING OPERATION DOWN TO 0°F. PROVIDE CRANKCASE HEATER. APR RAWAL VALVE FOR PART LOAD CONTROL. VERIFY REFRIGERANT LINE SIZES WITH MANUFACTURER.

- ① DDC CONTROLS, COMPLETE WITH CONTROLS TRANSFORMER, AIRFLOW SENSOR, LEAVING AIR TEMPERATURE SENSOR, HIGH SPEED ACTUATOR
- ② T-STAT.
- ③ MERCURY CONTACTORS, THERMAL CUTOUT WITH MANUAL RESET, AIRFLOW SAFETY SWITCH, DISCONNECT BY ELECTRICAL DIVISION.

MONITORING EQUIPMENT SHALL MEET INFECTION CONTROL GUIDELINES



- ① PROVIDE WITH FILTER FRAME EQUAL TO CAMFL 3P GUIDE/PACK. PROVIDE WITH DIRTY FILTER PRESSURE GAUGES ON THE SUPPLY AND DISCHARGE SIDES OF THE FILTER. THE GAUGES SHALL SEND A DIRTY FILTER ALARM TO THE EXISTING VA ENERGY MANAGEMENT SYSTEM. ENSURE FILTERS CAN BE CHANGED WITHOUT REMOVING THE T-BAR CEILING GRID.
- ② FILTER FRAME TO BE 1 FILTER HIGH AND 1 AND 1/2 FILTERS WIDE. 3,000 CFM TOTAL. TOTAL HEIGHT OF 27.25", 36" WIDTH, 21" DEPTH.

SEQUENCE OF OPERATION

UNITS SHALL SHUTDOWN UPON ACTIVATION OF LOCAL FIRE ALARM.

CRAC UNIT SHALL BE CONTROLLED THROUGH FACTORY CONTROLS.

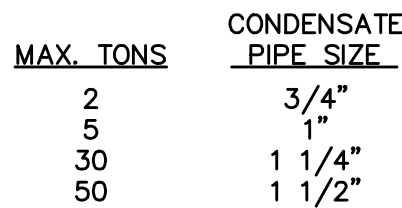
AHU-1 FAN SHALL RUN CONTINUOUSLY WITH THE OUTSIDE AIR DAMPER OPEN TO ITS MINIMUM OUTSIDE AIR SETTING DURING OCCUPANCY, THE DX COMPRESSORS SHALL ENERGIZE TO MAINTAIN 55°F SUPPLY AIR TEMPERATURE, (ADJUSTABLE)

CV BOX ELECTRIC HEAT SHALL STAGE ON TO MAINTAIN SPACE TEMPERATURE SETPOINT.

HUMIDIFIER SHALL BE CONTROLLED THROUGH MANUFACTURER CONTROLS TO MAINTAIN 40% RH. HUMIDIFIER SHALL LOCKOUT AND MAINTAIN OFF POSITION ABOVE 50% RH IN SPACE.

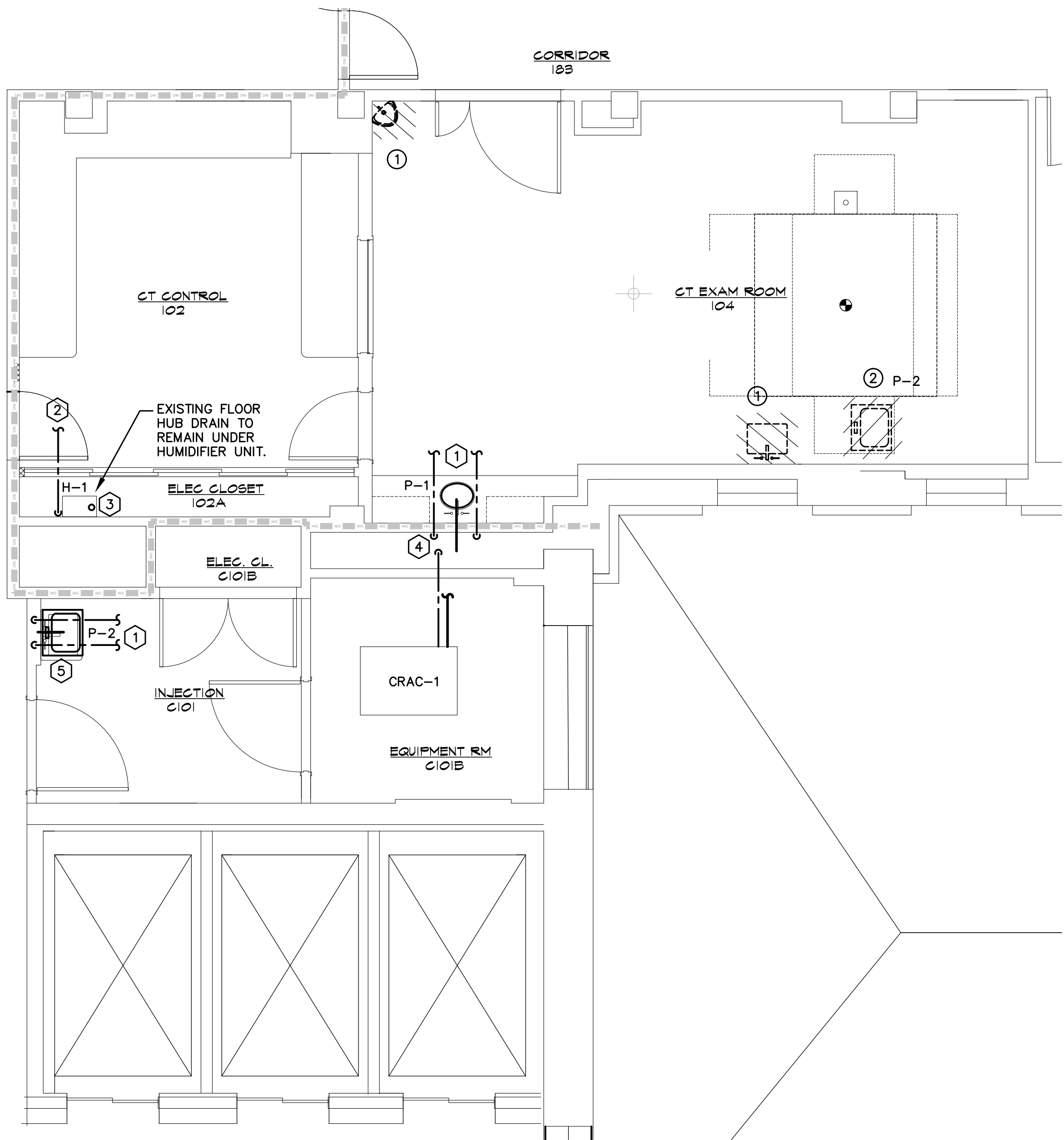
MONITORING EQUIPMENT SHALL MEET INFECTION CONTROL GUIDELINES

NO SCALE



NO SCALE (FOR DRAW THRU APPLICATIONS)

M-2



FLOOR PLAN - PLUMBING
SCALE: 1/8"=1'-0" 6070.00

PLUMBING REMOVAL DRAWING NOTE:

- CONTRACTOR TO REMOVE EXISTING PLUMBING FIXTURE SHOWN AND DISPOSE OF AS DIRECTED BY OWNER. CONTRACTOR TO CUT AND CAP EXISTING DOMESTIC WATER, VENT, AND SANITARY PIPING BELOW FLOOR, ABOVE CEILING AND IN WALL AS NEEDED. CUT AND PATCH FLOOR, CEILING AND WALL AS NEEDED TO MATCH EXISTING.
- CONTRACTOR TO REMOVE EXISTING LAVATORY AND ACCESSORIES SHOWN AND STORE ON-SITE. TO BE RELOCATED AND INSTALLED TO NEW LOCATION AS SHOWN ON PLAN. CONTRACTOR TO CUT AND CAP EXISTING DOMESTIC WATER, VENT, AND SANITARY PIPING BELOW FLOOR, ABOVE CEILING AND IN WALL AS NEEDED. CUT AND PATCH FLOOR, CEILING AND WALL AS NEEDED TO MATCH EXISTING.

PLUMBING NEW CONSTRUCTION DRAWING NOTE:

- CONTRACTOR TO TIE NEW SANITARY AND VENT INTO EXISTING NEAR REMOVED LAVATORY. TIE NEW DOMESTIC WATER INTO EXISTING NEAR REMOVED LAVATORY. ALL NEW PIPING SHALL BE EXTENDED AS NEEDED TO TIE INTO EXISTING NEAR WHERE SHOWN ON PLAN. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION, SIZE, INVERT AND DIRECTION OF FLOW OF EXISTING PRIOR TO THE START OF ANY WORK. MUST CONNECT BACK TO SAME SIZE PIPE OR LARGER.
- 1/2" WATER LINE WITH BACKFLOW PREVENTER AND FILTER/DESCALER DOWN TO NEW HUMIDIFIER TO REPLACE EXISTING UNIT. FIELD VERIFY / COORDINATE EXACT TIE IN POINT ABOVE CEILING PRIOR TO ROUGH IN. HUMIDIFIER PROVIDED AND INSTALLED BY MECHANICAL DIVISION. SEE M SHEETS FOR DETAILS. HUMIDIFIER TO REPLACE EXISTING IN SAME LOCATION. RECONNECT TO EXISTING WATER LINE SERVING REMOVED UNIT. NO WATER LINES SHALL RUN ABOVE ANY ELECTRICAL EQUIPMENT. FIELD COORDINATE.
- HUMIDIFIER DRAIN LINE WITH MANUFACTURER DRAIN LINE WATER COOLER INSTALLED, DOWN TO EXISTING FLOOR HUB DRAIN BELOW UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. HUMIDIFIER PROVIDED AND INSTALLED BY MECHANICAL DIVISION. SEE M SHEETS FOR DETAILS. WATER FEED AND DRAIN CONNECTIONS BY PLUMBER. STEAM DISTRIBUTION PIPING BY MECHANICAL CONTRACTOR.
- 1/2" WATER LINE WITH BACKFLOW PREVENTER AND FILTER/DESCALER TO CEILING HUNG CRAC-1 HUMIDIFIER STEAM GENERATOR ABOVE CEILING. TIE NEW WATER LINE INTO WATER LINE NEAR NEW LAVATORY. CRAC-1 UNIT IS TO BE INSTALLED BY MECHANICAL CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE WATER CONNECTION TO UNIT AND DRAIN TO SINK SIDE OF TRAP AS REQUIRED BY MANUFACTURER.
- EXISTING FIXTURE TO BE RELOCATED AND REINSTALLED IN NEW LOCATION AS SHOWN ON PLAN. PROVIDE NEW STOPS ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION. 1/2" HW, 1/2"CW, 2" SAN, 2" VENT

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

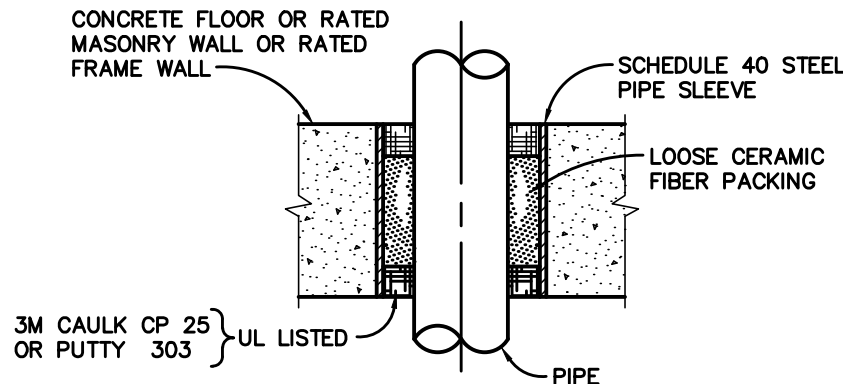
THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE.

MATERIAL SPECIFICATIONS:

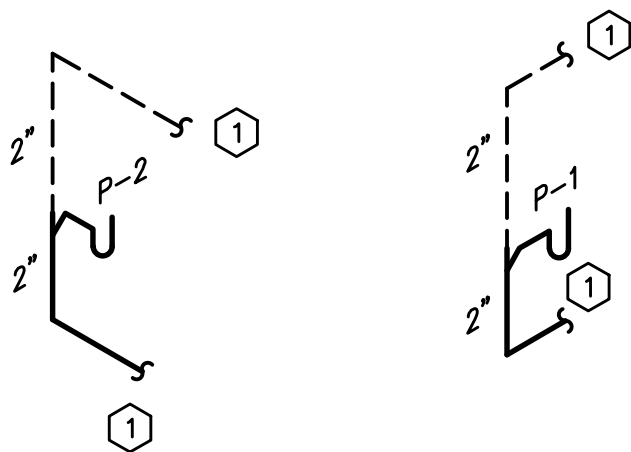
- DOMESTIC HOT AND COLD WATER PIPING SHALL BE TYPE "K" COPPER WITH WROUGHT COPPER FITTINGS.
- SANITARY WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON, NO HUB FITTINGS ABOVE GRADE.
- INSULATION SHALL BE FLEXIBLE UNICELLULAR-SELF-SEAL ARMAFLEX 2000 1/2" THICK FOR HOT AND COLD WATER PIPING UP TO 2" SIZE - PROVIDE SHEET METAL SADDLES AT EACH HANGER.

PLUMBING FIXTURE SCHEDULE:

P-1: LAVATORY, BARRIER FREE - AVONITE SURFACES #VB-18X15 WHITE SOLID SURFACING INTEGRAL BOWL. AMERICAN STANDARD HERITAGE NO. 7402.172H CHROME FAUCET, GOOSENECK SPOUT, 4" WRISTBLADE HANDLES, 1/2" GPM FLOW RESTRICTOR; WITH ANTIMICROBIAL LAMINAR FLOW DEVICE, OFFSET GRID DRAIN ASSEMBLY. INSULATE TRAP AND SUPPLIES WITH TRUEBRO NO. 103 LAV GUARD. PROVIDE STOPS, SUPPLIES, TRAP, ETC., TO MAKE A COMPLETE INSTALLATION. 1/2" CW, 1/2" HW, 2" VENT, 2" SAN.



WALL AND FLOOR FIRESTOP SYSTEM
NO SCALE (EXCEEDS U.L. SYSTEM NO. CAJ1003, CAJ1011.)

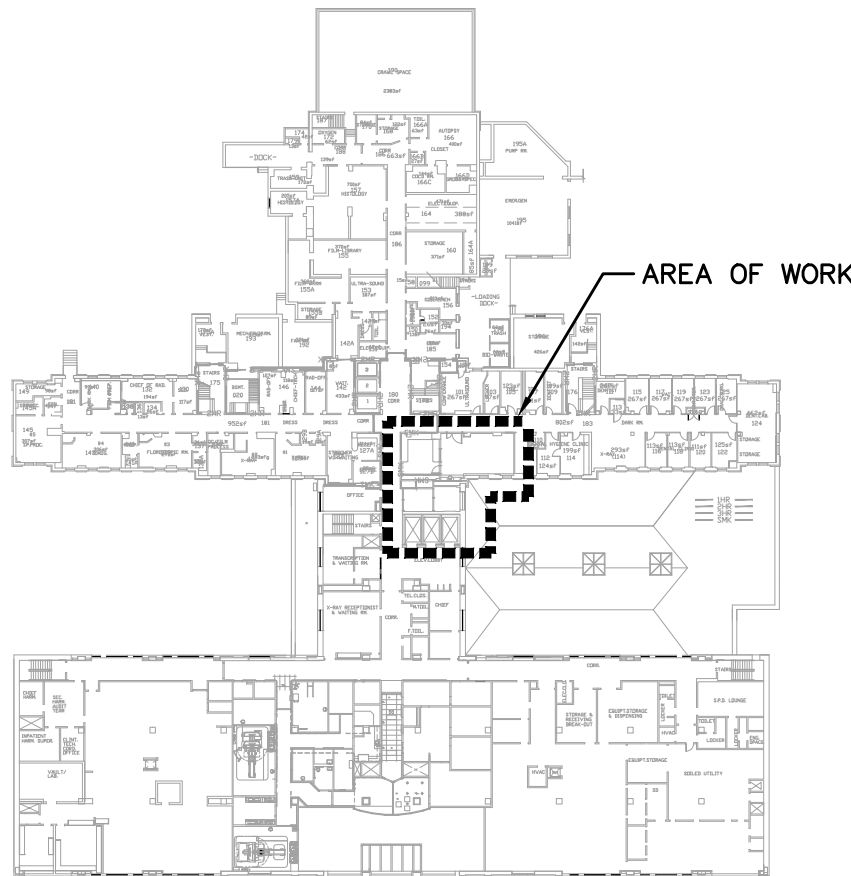


SANITARY RISER DIAGRAM
NO SCALE

PLUMBING GENERAL NOTES:

- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE INTERNATIONAL PLUMBING CODE, LATEST EDITION, AND VA CODE AND MASTER SPECIFICATION STANDARDS.
- REVIEW PLANS OF ALL TRADES PRIOR TO BIDDING AND INSTALLATION TO INCLUDE ALL PLUMBING FOR COMPLETE SYSTEMS SHOWN ON THE PLANS AND AS REQUIRED.
- COORDINATE WITH OTHER TRADES TO PREVENT INTERFERENCE WITH HVAC DUCTS, STRUCTURE, ELECTRICAL LIGHTING, AND OTHER PIPING IN THE CEILING SPACE. VENT PIPING AND WATER PIPING SHALL BE HELD EITHER ABOVE OR BELOW HVAC DUCTWORK AS COORDINATED WITH THE HVAC CONTRACTOR.
- ALL CHANGES SHALL BE APPROVED BY THE ARCHITECT.
- COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES AND EQUIPMENT SUPPLIES.
- THE PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING FIXTURES, UNLESS NOTED OTHERWISE.
- THE PLUMBING SUBCONTRACTOR SHALL INSTALL AND MAKE ALL PLUMBING CONNECTIONS TO OWNER FURNISHED EQUIPMENT.
- VERIFY MOUNTING HEIGHT AND WATER CONNECTION SIZES TO ALL PLUMBING FIXTURES PRIOR TO ROUGH-IN. FURNISH CUT-OUT TEMPLATES FOR PLUMBING FIXTURES TO BE INSTALLED IN MILLWORK, TO THE GENERAL CONTRACTOR.
- MAKE PROPER HOT AND COLD WATER, WASTE AND VENT PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL FITTINGS AND CONNECTIONS ARE NOT SHOWN.
- VERIFY LOCATION OF EXISTING WATER SERVICE AND THE LOCATION/INVERTS OF SANITARY PIPING PRIOR TO INSTALLATION.
- THIS CONTRACTOR TO DO ALL CUTTING AND PATCHING REQUIRED TO INSTALL ANY PORTION OF THIS WORK. PATCH WITH NEW MATERIALS OF THE SAME TYPE THAT WAS REMOVED. REFINISH PATCHED SURFACE TO MATCH EXISTING ADJACENT SURFACES.
- INSTALL WATER HAMMER ARRESTERS WHERE WATER PRESSURES ARE EXCESSIVE OR WHERE REQUIRED TO ELIMINATE WATER HAMMER OR WHEN DEEMED NECESSARY BY LOCAL AUTHORITIES. LOCATE AND SIZE AS RECOMMENDED BY THE AMERICAN SOCIETY OF PLUMBING ENGINEERS.
- ALL WORK ASSOCIATED WITH THESE PLANS SHALL NOT PASS THRU OR ABOVE ANY ROOM DESIGNATED AS AN ELECTRICAL ROOM.
- IT IS IN THE INTENT OF THESE DRAWINGS TO COVER ALL WORK AND MATERIAL FOR A FIRST CLASS INSTALLATION. ANY EQUIPMENT, PLUMBING FIXTURE, TRIM HARDWARE AND/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THESE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.
- ALL WORK, BOTH MATERIAL AND INSTALLATION, SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER.
- PRIOR TO CONNECTION TO ANY EXISTING SANITARY LINES, CONTRACTOR SHALL SCOPE THE LINES TO VERIFY THEY ARE CONNECTED TO THE MUNICIPAL SYSTEM. PROVIDE EVIDENCE TO THE LANDLORD OF THIS WORK PRIOR TO MAKING ANY FINAL CONNECTIONS.

PLUMBING LEGEND		
DESCRIPTION	ABBREV.	SYMBOL
SANITARY PIPING	SAN	_____
VENT PIPING	V	_____
COLD WATER PIPING	CW	_____
HOT WATER PIPING	HW	_____
WALL CLEAN OUT	WCO	WCO
EXISTING	(E)	_____



KEY PLAN
NTS

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JANUARY 18, 2017

ISSUED FOR: _____ DATE: _____
☐ REVIEW
☐ BIDDING
☐ PERMIT
☒ CONSTRUCTION
06/16/16
07/12/16

SHEET TITLE
**PLUMBING
FLOOR PLAN**

DATE
JUNE 16, 2016
PROJECT NO.
0316-02

SHEET NO.

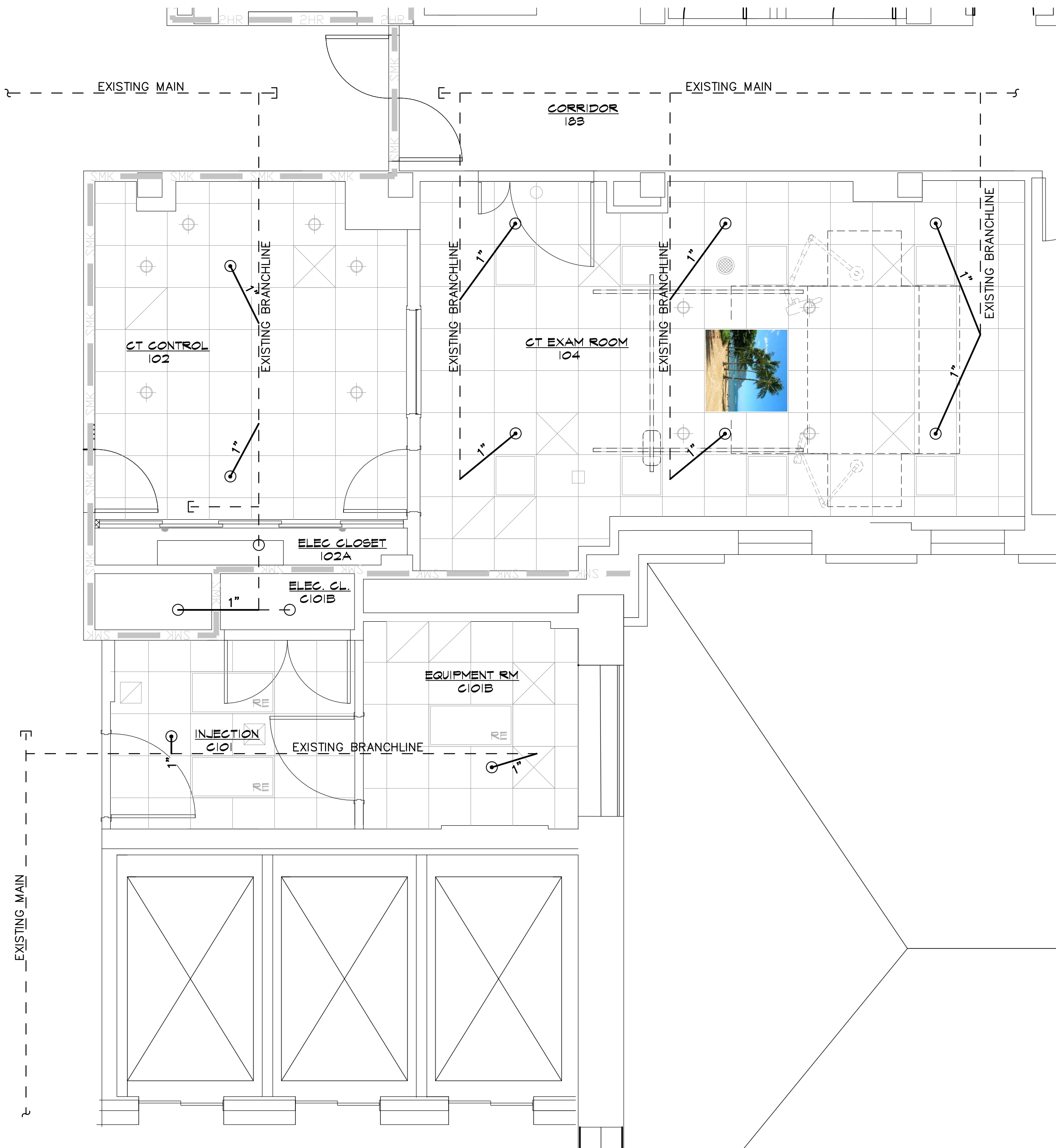
P-1

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MAINE LICENSE NO. AR025160



FLOOR PLAN – FIRE PROTECTION
SCALE: 1/4"=1'-0" 6070.00

DURING CONSTRUCTION, WHILE CEILING IS REMOVED, CONTRACTOR SHALL PROVIDE UPTURNED HEADS TO PROVIDE COVERAGE WHILE UNDER CONSTRUCTION. ONCE CEILING IS PUT BACK IN PLACE, NEW FIRE PROTECTION SHALL BE INSTALLED AS SHOWN. COVERAGE MUST BE MAINTAINED DURING THE CONSTRUCTION PROCESS.

MATERIAL SPECIFICATION

SEMI-RECESSED PENDENT SPRINKLER – MATCH EXISTING, QUICK RESPONSE PENDENT, 1/2" THREAD SIZE, 5.6 K-FACTOR, SPRINKLER LISTED FOR LIGHT AND ORDINARY HAZARD AND TEMPERATURE RATING OF 175°F. COORDINATE FINISH WITH ARCHITECT

SIDEWALL SPRINKLER – EQUAL TO VIKING (SIN VK305) PART #12121 MICROFAST QUICK RESPONSE HORIZONTAL SIDEWALL, 1/2" THREAD SIZE, 5.6 K-FACTOR, SPRINKLER LISTED FOR LIGHT AND ORDINARY HAZARD AND TEMPERATURE RATING OF 175°F. COORDINATE FINISH WITH ARCHITECT

SPRINKLER PIPING (ABOVE GRADE) – PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE AND FITTINGS CONFORMING TO ASTM A-120-55. MINIMUM SIZE IS ONE (1") INCH. SCHEDULE 10 MAY BE USED FOR 2 1/2" AND LARGER. DO NOT THREAD THINWALL PIPE.

FIRE PROTECTION LEGEND

DESCRIPTION	SYMBOL	NOTES
NEW SEMI-RECESSED PENDENT SPRINKLER		SEE MATERIAL SPECIFICATION
EXISTING SPRINKLER TO BE RELOCATED		SEE MATERIAL SPECIFICATION
EXISTING FIRE MAIN TO REMAIN		
EXISTING BRANCH TO REMAIN		
EXISTING SPRINKLER TO REMAIN		
EXISTING SPRINKLER TO BE REMOVED		
NEW SIDE WALL SPRINKLER		SEE MATERIAL SPECIFICATION

FIRE PROTECTION DESIGN CRITERIA

- LIGHT HAZARD OCCUPANCY, 15'-0" MAXIMUM SPACING, 225 SQUARE FEET MAXIMUM SPRINKLER SPACING, DENSITY 0.10/1500 SQ. FT. (5.6 K-FACTOR) SPRINKLER HEADS TO BE USED.
- PIPING SIZE: PIPING SIZE, THE ACTUAL PIPE SIZING, ROUTING AND LOCATION SHALL BE BY THE FIRE SPRINKLER CONTRACTOR. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER, VA PROJECT MANAGER AND FIRE MARSHALL FOR REVIEW.
- APPLICABLE STANDARDS: VA MASTER SPECIFICATION, IBC CURRENT ADDITION (NFPA 13-CURRENT, NFPA 24-CURRENT, NFPA 25-CURRENT).
- SCOPE OF WORK IS MODIFICATIONS OF THE EXISTING FIRE SPRINKLER SYSTEM FOR THE VA MAINE HEALTHCARE SYSTEM, RENOVATED CT SUITE AND ANCILLARY SPACES. RENOVATION OF AN EXISTING OFFICE, CONTROL, AND SCAN ROOM, TO BE CONVERTED TO NEW CT SUITE. SPRINKLERS TO BE RELOCATED/ REPLACED WITH NEW AS NEEDED TO FIT NEW OCCUPANCY TYPE AND CEILING GRID/ROOM LAYOUT.

GENERAL NOTES: (FIRE SPRINKLERS)

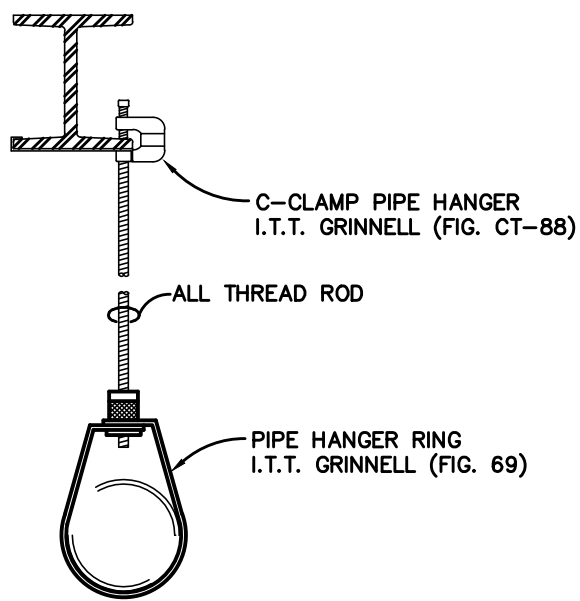
- EXISTING SPRINKLERS TO BE REPLACED WITH NEW AND RELOCATED TO NEW LOCATION.
- SYSTEM SHALL BE TESTED AS OUTLINED IN NFPA 13 CHAPTER 10 SYSTEMS ACCEPTANCE FOR WET PIPE SYSTEM. SYSTEM TESTING SHALL BE WITNESSED BY CONTRACTING OFFICERS TECHNICAL REPRESENTATIVE (COTR), VA PROJECT ENGINEER.
- ALL MATERIAL SHALL BE OF APPROVED QUALITY AND THE WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER. THE WORK, MATERIALS AND TEST SHALL BE IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF NFPA PAMPHLET NO. 13.
- CONTRACTOR SHALL PROVIDE SYSTEM(S) WITH FLUSHING CONNECTION(S) AT THE END OF THE MAIN.
- PIPE SUPPORTS: HANGERS, CLAMPS, RODS AND OTHER ACCESSORIES OF AN APPROVED TYPE AND IN SUFFICIENT NUMBER TO PROPERLY SUPPORT ALL PIPING SHALL BE FURNISHED AND INSTALLED. PIPING SHALL BE SUPPORTED BY ROUND WROUGHT U-TYPE APPROVED ADJUSTABLE HANGERS.
- SPRINKLERS SHALL BE 1/2" ORIFICE TYPE OF ORDINARY DEGREE RATING EXCEPT WHERE EXCESSIVE TEMPERATURES ARE ANTICIPATED. IN THESE LOCATIONS HIGH TEMPERATURE SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA NO. 13. PROVIDE QRS SPRINKLERS UNLESS OTHERWISE NOTED.
- CONTRACTOR TO INDICATE SPRINKLER TEMPERATURE RATING, ORIFICE SIZE AND TYPE ON FINAL DRAWINGS.
- PROVIDE AND MAINTAIN A MINIMUM OF 18 INCHES CLEARANCE BETWEEN THE BOTTOM OF THE SPRINKLER DEFLECTOR AND THE TOP OF STORAGE, FILES, ETC.
- REFER TO ARCHITECTURAL DOCUMENTS FOR LOCATIONS OF ALL SMOKE AND/OR FIRE WALLS WHICH FIRE PROTECTION PIPING PENETRATES AND PENETRATION DETAILS SHOWING THE MAINTAINING OF THE INTEGRITY OF THE SMOKE/FIRE SAFED IN AN APPROVED MANNER WHEN PENETRATING WALLS AND FLOORS. SEE DETAILS.
- CONTRACTOR SHALL PROVIDE THE OWNER WITH ALL LITERATURE AND INSTRUCTIONS AS PROVIDED BY THE MANUFACTURER DESCRIBING PROPER OPERATION AND MAINTENANCE OF ANY EQUIPMENT AND DEVICES INSTALLED.
- CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF NFPA 25 "STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS".
- CONTRACTOR SHALL COMPLETE AND SIGN THE APPROPRIATE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE(S) AS INDICATED IN NFPA 13.
- WATER SOURCE IS FROM EXISTING PUBLIC UTILITY WATER MAIN. THERE ARE NO KNOWN CONDITIONS PRESENT THAT CONTRIBUTE TO MICROBIOLOGICAL CORROSION (MIC). CONTRACTOR SHALL RE-EVALUATE WATER SUPPLY AND ENVIRONMENTAL CONDITIONS FOR EXISTENCE OF MICROBES AND CONDITIONS THAT CONTRIBUTE TO MICROBIOLOGICAL INFLUENCED CORROSION (MIC) PRIOR TO CONSTRUCTION. WHERE CONDITIONS ARE FOUND THAT CONTRIBUTE TO MIC, THE CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER. CONTRACTOR SHALL THAN PROVIDE AN ALTERNATE BID FOR TREATMENT OF ALL WATER ENTERING SYSTEM AND/OR PROVIDE AN APPROVED PLAN FOR MONITORING THE INTERIOR CONDITIONS OF THE PIPE AT AN ESTABLISHED TIME INTERVAL AND LOCATIONS.
- CONTRACTOR SHALL COORDINATE STRUCTURAL SUPPORT AND OPENINGS REQUIRED FOR INSTALLATION OF FIRE PROTECTION SYSTEM WITH STRUCTURAL ENGINEER.
- CONTRACTOR SHALL PROVIDE QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS WITH DOCUMENTS SUBMITTED TO AUTHORITY HAVING JURISDICTION FOR PERMITTING.
- BACKFLOW PREVENTER IS EXISTING.
- SIGNALS ARE TO BE INTERLOCKED WITH FIRE ALARM SYSTEM BY DIVISION 16. REFER TO ELECTRICAL DOCUMENTS FOR FIRE ALARM SYSTEM.
- FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13 AND ALL APPLICABLE STATE CODES.
- FINAL INSPECTION AND APPROVAL BY PROJECT ENGINEER.
- SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND VA PROJECT ENGINEER AND SHALL BE APPROVED PRIOR TO ANY INSTALLATION.
- PIPE ROUTING SHOWN IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.
- PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.
- SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS. SPACING OF SPRINKLER HEADS SHALL BE IN ACCORDANCE WITH NFPA 13 AND THE LISTING OF THE SPRINKLER. PIPING SHALL BE COORDINATED WITH ALL TRADES.
- SPRINKLER HEAD LOCATIONS SHALL BE CENTERED IN THE TILE. PROVIDE ARMORER OR SWING JOINT AS REQUIRED. SPRINKLERS SHALL BE INSTALLED BY PERSONNEL WHO HAVE ENGINEERING FACILITIES AND EXPERIENCE IN SUCH WORK AND WHO ARE REGULARLY EMPLOYED TO DO SUCH WORK.
- FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC., FLASH AND COUNTERFLASH ROOF PENETRATIONS. (SEE FIRE RATED PIPE PENETRATION DETAIL).
- PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
- COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.), PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL SHALL BE REROUTED AT NO ADDITIONAL COST.
- SPRINKLER WORKING DRAWINGS SHALL BE PREPARED AND STAMPED BY A LICENSED MAINE FP PROFESSIONAL ENGINEER.

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

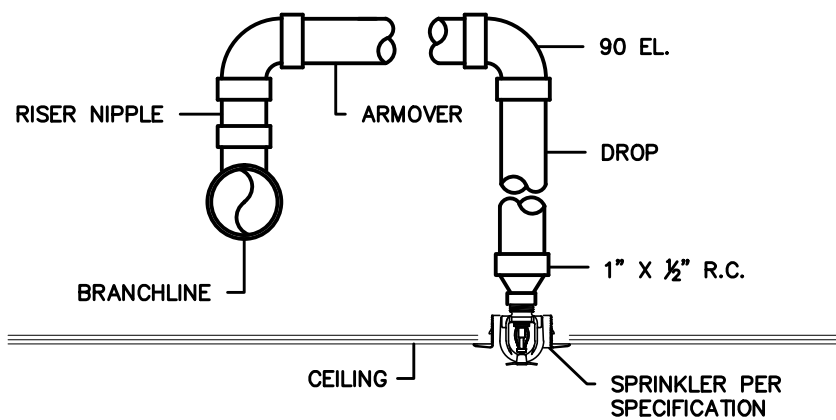
THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION NOTE:

- REMOVE EXISTING SPRINKLERS WITHIN RENOVATED SPACE. NEW SPRINKLERS TO FIT NEW CEILING GRID LAYOUT AND TYPE.
- COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.), PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL SHALL BE REROUTED AT NO ADDITIONAL COST.



PIPE SIZE (IN)	ROD SIZE (IN)	MAX SPACE (FT)
1/2	1/4	5
3/4	1/4	6
1-1/2	3/8	7
2	3/8	10
2-1/2	3/8	11
3	3/8	12
4	1/2	14



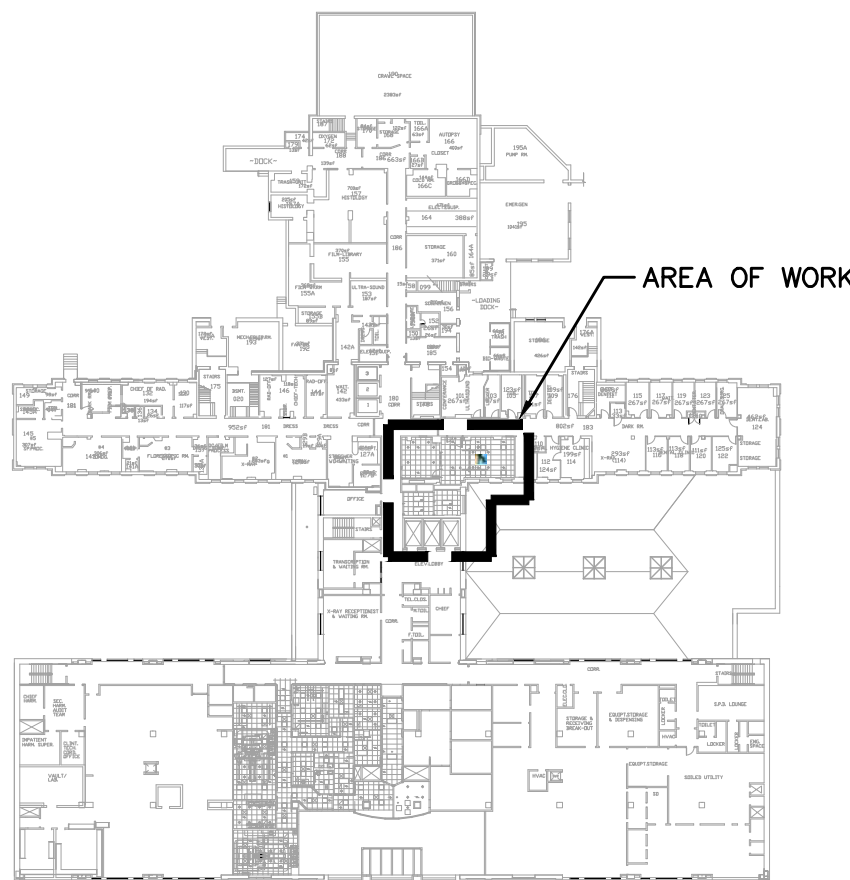
FIRE PROTECTION NOTE:

ALL NEW FIRE SPRINKLER PIPING SHALL BE SIZED ACCORDING TO EXISTING SIZES OF EXISTING PIPING. FIELD VERIFY THE EXISTING SIZES TO INSURE NO EXISTING PIPING WILL BE OVERLOADED WITH NEW SPRINKLERS.

COORDINATE ALL SHUTDOWNS WITH OWNER.

THE CONTRACTOR SHALL PROVIDE RUBBER MATS AND PLYWOOD COVERS TO ALL OWNER'S EQUIPMENT SUSCEPTIBLE TO DAMAGE DURING CONSTRUCTION. VERIFY SPECIFIC LOCATIONS WITH OWNER'S AUTHORIZED REPRESENTATIVE.

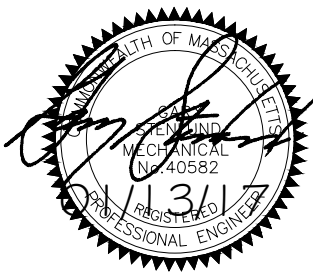
ALL WORK SHALL COMPLY WITH VA MASTER SPECIFICATION DIVISION 21 – FIRE SUPPRESSION SECTIONS 21 05 11 AND 21 13 13.



KEY PLAN
NTS

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DVA PROJECT 402-10-542
CT SUITE ROOM 104 RENOVATION
BUILDING 200, 1st FLOOR
VA MAINE HEALTHCARE SYSTEM
1 VA CENTER
AUGUSTA, MAINE 04330

REVISIONS

ISSUED FOR:	DATE:
☐ PERMIT	
☐ REVIEW	06/16/16
☐ BIDDING	
☐ PERMIT	
☒ CONSTRUCTION	07/12/16

SHEET TITLE

FIRE PROTECTION FLOOR PLAN

DATE **JUNE 16, 2016**

PROJECT NO. **0316-02**

SHEET NO.

FP-1

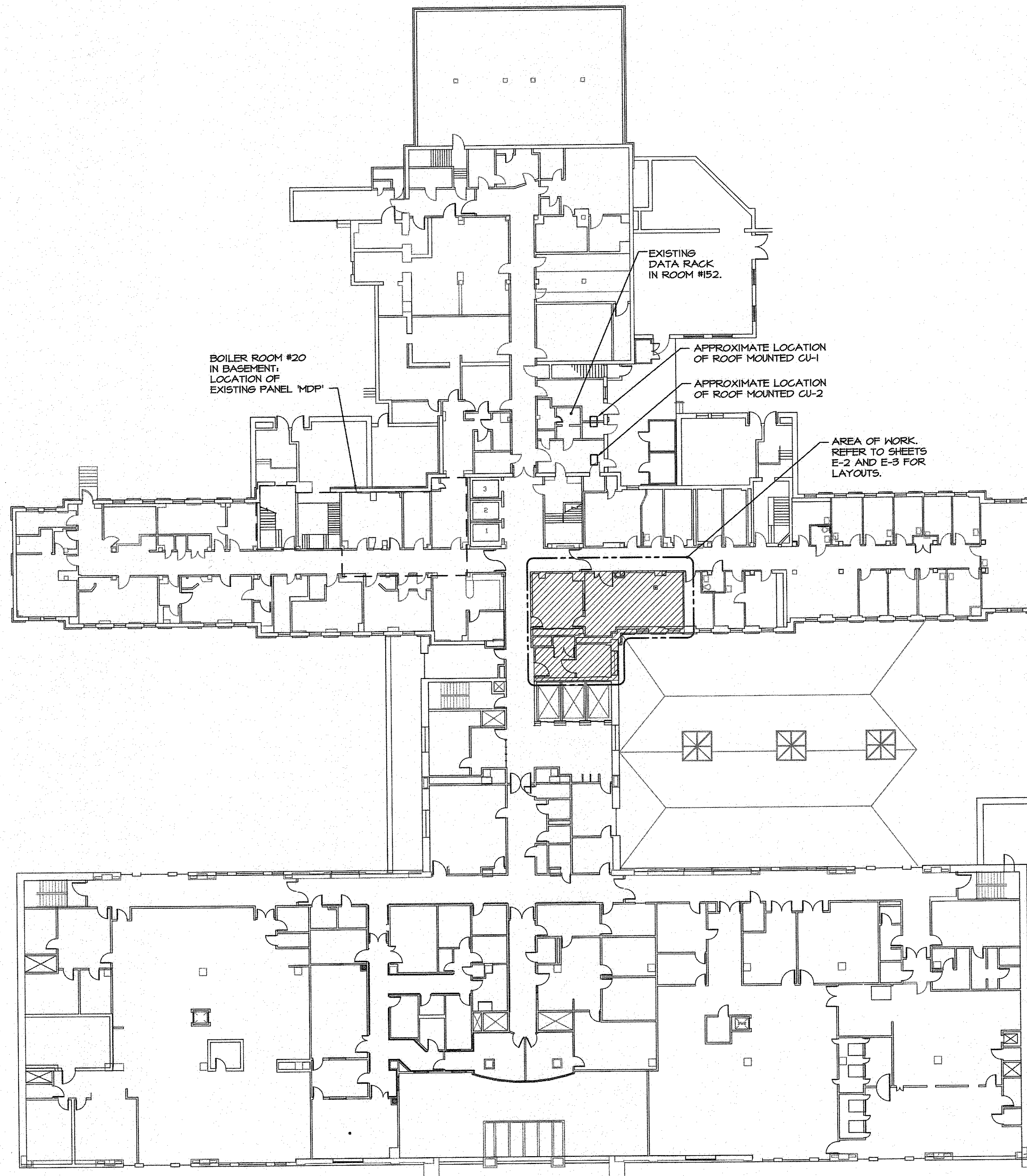
ELECTRICAL REQUIREMENTS

DIVISION 26

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE N.E.C., ALL APPLICABLE VA STANDARDS, AND COMPLY WITH THE SPECIFICATIONS.
2. ALL MATERIALS SHALL BE NEW AND OF DOMESTIC ORIGIN AND SHALL BEAR UNDERWRITERS' LABEL WHERE APPLICABLE.
3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER/ARCHITECT MUST BE A CONDITION OF THE SUB CONTRACT.
4. ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
5. ELECTRICAL CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
6. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
7. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
8. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES.
9. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING, UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE COPPER WITH THIN/THIN INSULATION. CONDUCTORS #10 AND SMALLER SHALL BE SOLID; ALL THOSE #8 AND LARGER TO BE STRANDED, PER N.E.C. 310.3.
10. ALL RECESSED OUTLET BOXES IN WALLS OR CEILINGS, SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS.
11. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. COLOR OF DEVICES AND PLATES SHALL BE DICTATED BY ARCHITECT/OWNER TO MATCH BUILDING STANDARD. ALL NEW RECEPTACLES SHALL BE HOSPITAL GRADE. ALL NEW SWITCHES SHALL BE INDUSTRIAL GRADE. ALL DEVICES ON LIFE SAFETY AND CRITICAL BRANCHES SHALL BE RED. ALL RECEPTACLE AND LIGHT SWITCH COVER PLATES SHALL BE ENGRAVED WITH PAINT FILLED LETTERS (BLACK) TO INDICATE PANEL AND CIRCUIT NUMBER POWERING THE DEVICE.
12. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
13. ALL ELECTRICAL RACEWAYS (METALLIC AND NONMETALLIC) SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C.
14. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
15. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
16. ALL SWITCHGEAR SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. CONTRACTOR SHALL VERIFY BUILDING STANDARD AND PROVIDE ACCORDINGLY. TANDEN AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED. PROVIDE ARC FLASH WARNING SIGNAGE PER NEC 110.16 FOR ALL NEW PANELBOARDS.
17. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
18. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS. PENETRATION SEALS SHALL BE PER UL LISTED ASSEMBLY STANDARDS FOR EACH LOCATION.

NOTES

1. THE INTERIOR ELECTRICAL SYSTEMS SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED BY THE NEC. ALL METALLIC RACEWAYS SHALL BE MECHANICALLY AND ELECTRICALLY SECURE AT ALL JOINTS AND AT ALL BOXES, CABINETS, FITTINGS AND EQUIPMENT. METALLIC RACEWAYS SHALL BE CONNECTED TO A DIRECT GROUND AT THE POINT OF ELECTRICAL SERVICE ENTRANCE.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY RECEPTACLE CONFIGURATION, VOLTAGE, PHASE AND AMPERAGE FOR ALL REQUIRED OUTLETS. PROVIDE DEDICATED CIRCUITS AS REQUIRED. ADVISE ENGINEER IF NECESSARY.
3. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL JUNCTION BOXES, TROUGHS, WIRE, CIRCUIT BREAKERS, ETC., UNLESS OTHERWISE SPECIFIED.
4. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. BUILDING CONDITIONS TO DETERMINE THE ACTUAL RUNS.
5. CONDUIT ELBOWS TO BE LARGE SNEEPS PER NEC 344.24.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE AND COIL A MINIMUM 10'-0" OF SLACK CONDUIT FOR CONNECTION TO EQUIPMENT BY OTHERS. IDENTIFY BOTH ENDS OF WIRE.
7. ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PHILIPS INSTALLATION DRAWINGS PRIOR TO START OF CONSTRUCTION.
8. ALL CONDUIT USED SHALL BE A MINIMUM 3/4" DIAMETER.
9. CONDUITS AND DUCT, ABOVE CEILING, MUST BE INSTALLED AS NEAR TO CEILING AS POSSIBLE TO REDUCE RUN LENGTHS.
10. THESE DRAWINGS ARE DIAGRAMMATIC AND INTENDED ONLY TO SHOW THE REQUIRED SCOPE OF WORK. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDUIT RUNS AND THEIR CONDITIONS AS WELL AS THE SUITABILITY OF LOCATING ALL NEW CONDUIT SHOWN ON THE PLANS OR IDENTIFIED IN NOTES.



NORTH
FIRST FLOOR
KEY PLAN
SCALE: 1" = 20'-0"

SPECIFIC NATIONAL CODES

- NFPA 101 - 2015
LIFE SAFETY CODE.
- NFPA 70 - 2014
NATIONAL ELECTRICAL CODE.
- NFPA 99 - 2015
STANDARD FOR HEALTH CARE FACILITIES.
- NFPA 12 - 2013
FIRE ALARM CODE.
- NFPA 241 - 2013
STANDARD FOR SAFEGUARDING
CONSTRUCTION ALTERATION AND DEMOLITION
OPERATIONS.

VA CONSTRUCTION STANDARDS

CONDUIT COLOR CODING

PROVIDE THE FOLLOWING COLOR CODING FOR ALL CONDUIT SYSTEMS WHERE PROVIDED.

- NORMAL BRANCH - GREEN
- LIFE SAFETY BRANCH - MAGENTA
- CRITICAL BRANCH - BLACK
- EQUIPMENT BRANCH - YELLOW

CONFIRM EXISTING FACILITY'S COLOR SCHEME AND ADJUST AS NECESSARY.

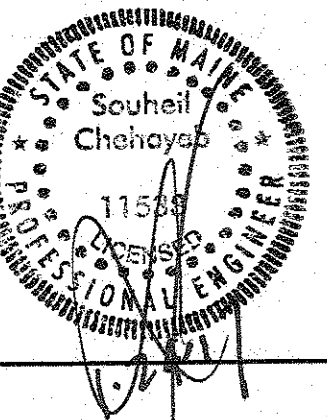
ELECTRICAL SHEET INDEX

SHEET NO.	SHEET TITLE
E-1	ELECTRICAL KEY PLAN AND NOTES
E-2	LIGHTING PLAN AND SCHEDULE
E-3	POWER PLAN AND DETAILS
E-4	REFERENCE VENDOR'S DRAWINGS
E-4.1	REFERENCE VENDOR'S DRAWINGS
E-5	LEGEND, NOTES, AND DETAILS
E-6	POWER RISER DIAGRAM AND SCHEDULES
E-7	ELECTRICAL SPECIFICATIONS

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DVA PROJECT 402-10-542
CT SUITE ROOM 104 RENOVATION
BUILDING 200, 1st FLOOR
VA MAINE HEALTHCARE SYSTEM
1 VA CENTER
AUGUSTA, MAINE 04330

REVISIONS
RECORD DOCUMENTS
JANUARY 13, 2017

ISSUED FOR:	DATE
☐ REVIEW	06/16/16
☐ BIDDING	
☐ PERMIT	
☒ CONSTRUCTION	07/12/16

SHEET TITLE
**ELECTRICAL
KEY PLAN
AND NOTES**

DATE
JUNE 16, 2016
PROJECT NO.
0316-02

SHEET NO.

E-1

FIXTURE SCHEDULE							
TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION	VOLT	LAMPS	MOUNTING	LOAD (VA)
B	MAXLITE	MLFP-22EP-40-35	2x2 LED WITH LENS	120	4120 LUMEN LED	LAY-IN	40
C	COOPER	LD6A20-DOIOE-ERM6A20-835-6LM-LI-WF	6" LED DOWNLIGHT	120	2000 LUMEN LED	RECESSED	32
D	COOPER	45NLED-LD4-30SL-LN-UNV-L835-CD-1	4'-0" LONG STRIP WITH LENS	120	3000 LUMEN LED	SURFACE	25
CBA = COLOR AS SELECTED BY ARCHITECT.							
NOTES:							
1. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR ALL FIXTURES. ACCESSORIES SHALL INCLUDE ALL HARDWARE TO MOUNT FIXTURES AS SHOWN ON SCHEDULES AND/OR DESCRIBED IN THE NOTES.				2. LAMPS SHALL BE ENERGY SAVING WITH COLOR TEMPERATURE AS SHOWN ON SCHEDULE WITH MINIMUM CRI OF 82.			
2. ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL (EQUALS ONLY).				3. SHOP DRAWINGS SHALL INCLUDE:			
3. ALL EMERGENCY, EXIT, AND NIGHT LIGHT FIXTURES SHALL BE CONNECTED AHEAD OF LOCAL SWITCHES, RELAYS, OR CONTACTORS UNLESS OTHERWISE NOTED.				A. COMPLETE FIXTURE CUT SHEETS INCLUDING PHOTOMETRICS.			
4. ALL PRE SUBMITTALS SHALL BE ACCOMPANIED WITH PHOTOMETRIC DATA.				B. WHERE COLOR SELECTION IS REQUIRED, COLOR CHART SHALL BE PROVIDED WITH THE SHOP DRAWINGS FOR SELECTION BY ARCHITECT/OWNER.			
5. ALL FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND NOT FROM SUSPENDED CEILING SYSTEM.				NOTES:			
6. ACCEPTED MANUFACTURERS ARE: DAY-BRITE, COOPER, ACUITY BRANDS, AND HUBBELL LIGHTING.				1. SHOP DRAWINGS SHALL BE PREPARED BY MANUFACTURER'S REPRESENTATIVE, AND NOT BY CONTRACTOR.			
7. CATALOG NUMBER ON FIXTURE SCHEDULE MAY NOT REFERENCE EVERY HARDWARE COMPONENT REQUIRED TO MOUNT FIXTURE AS INTENDED, VERIFY WITH MANUFACTURER FOR PROPER MOUNTING HARDWARE AND ANY ADDITIONAL COMPONENTS REQUIRED TO MOUNT FIXTURE AS INTENDED OR SHOWN.				2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OF THE REQUIRED DATA LISTED ABOVE WITH THE SHOP DRAWINGS.			
				10. UNLESS OTHERWISE NOTED, (NL) DENOTES A 'NIGHT LIGHT' FIXTURE. NIGHT LIGHT FIXTURES SHALL BE UNSWITCHED.			

54A

SITE SPECIFIC NOTE

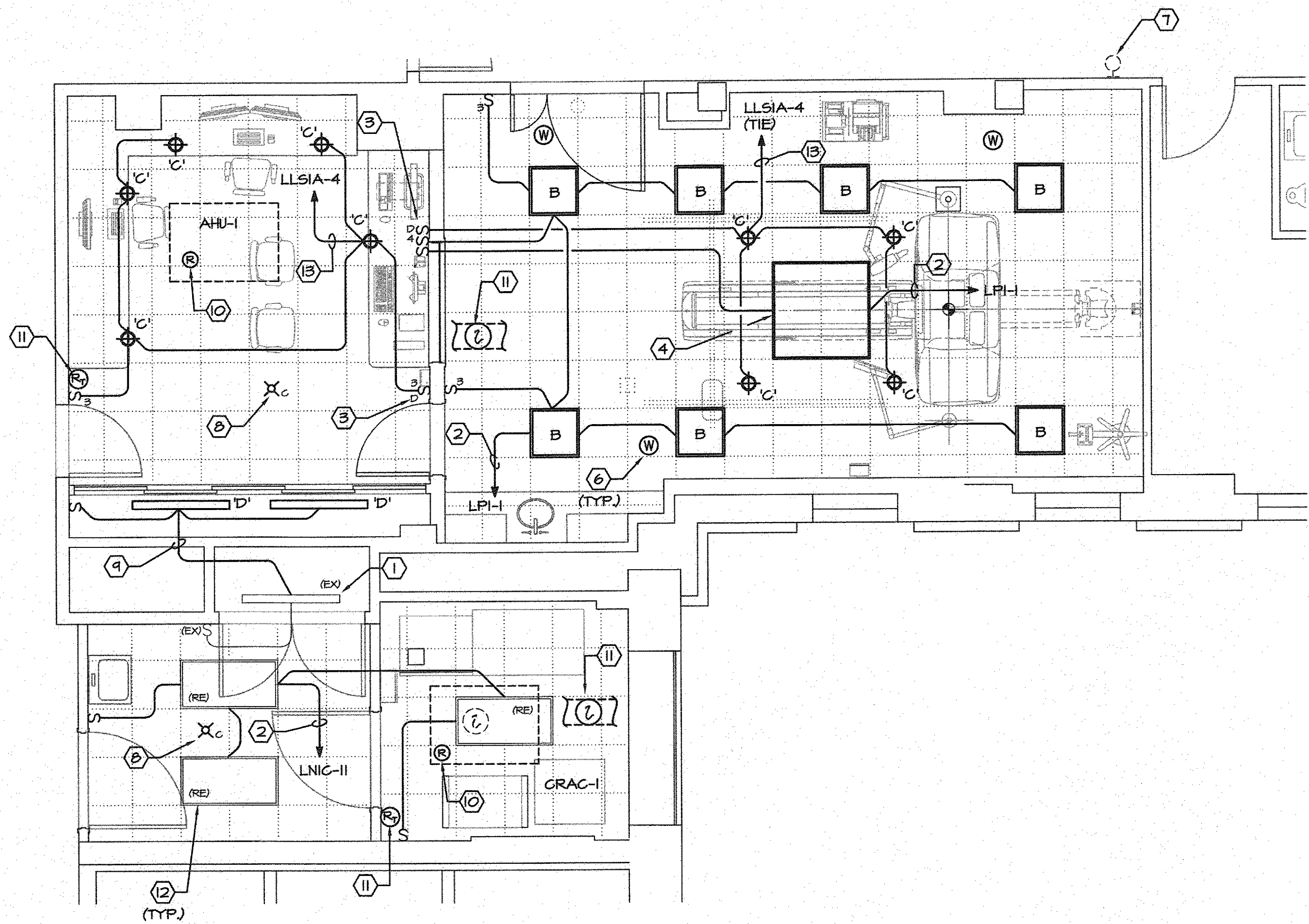
INFORMATION SHOWN ON THIS DRAWING IS BASED ON INFORMATION PROVIDED TO ENGINEER AT TIME OF DESIGN. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL CONDITIONS AND REPORT ANY DISCREPANCIES BACK TO ARCHITECT/ENGINEER PRIOR TO BID.

N5A

ALARM SYSTEM NOTES

- ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING SYSTEM FOR SIGNAL CIRCUITS, BATTERIES, AMPLIFIER CAPACITY, EXPANSION LIMITS, ETC., AND NOTIFY VA CONTRACTING OFFICER'S REPRESENTATIVE AND SYSTEM SERVICE AGENCY IMMEDIATELY OF ANY REQUIRED MODIFICATIONS TO THE FIRE ALARM PANEL SERVING THIS PROJECT.
- THE EXISTING FIRE ALARM SYSTEM SHALL BE TESTED AND RE-CERTIFIED AFTER THE NEW WORK IS COMPLETED.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOCAL FIRE MARSHAL'S OFFICE FOR ALL DEVICE LOCATIONS AND PROVIDE ANY ADDITIONAL DEVICES REQUIRED.
- ELECTRICAL CONTRACTOR SHALL PROVIDE SHUT-DOWN RELAYS AND CONNECTION TO FIRE ALARM SYSTEM FOR ALL NEW HVAC UNITS. VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR FOR QUANTITY AND LOCATIONS.

N50A



ELECTRICAL
LIGHTING PLAN
SCALE: 1/4" = 1'-0"

PLAN KEY NOTES

- EXISTING LIGHT FIXTURE ON LIFE SAFETY BRANCH.
- CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA WITH MATCHING CONDUIT AND WIRE SIZES.
- 0-10V DIMMER SWITCH SHALL BE COMPATIBLE WITH LED LIGHT FIXTURE INSTALLED. OBTAIN APPROVED DIMMER MAKE AND MODEL FROM LIGHT FIXTURE VENDOR PRIOR TO ORDERING.
- SKY FACTORY BACK-LIT MURAL. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- EXISTING FIRE ALARM SMOKE DETECTOR TO BE RELOCATED AS SHOWN. EXTEND/REROUTE/RECONNECT EXISTING CIRCUITRY AS REQUIRED.
- EXISTING WIRELESS COMMUNICATION TRANSMITTER/RECEIVER TO BE REMOUNTED TO NEW CEILING. MAINTAIN CONNECTIVITY THROUGHOUT CONSTRUCTION.
- EXISTING INACTIVE NURSE CALL DOME LIGHT TO BE COMPLETELY REMOVED.
- NEW FIRE ALARM AUDIO/VISUAL NOTIFICATION APPLIANCE. CONNECT TO NEAREST NOTIFICATION CIRCUITRY (FIELD VERIFY).
- CONNECT TO EXISTING CIRCUITRY WITH MATCHING CONDUIT AND WIRE SIZES (FIELD VERIFY).
- NEW FIRE ALARM FAN SHUT DOWN RELAY, EQUAL TO EXISTING AND COMPATIBLE WITH EXISTING SYSTEM. TIE INTO APPROPRIATE FIRE ALARM CIRCUITRY - FIELD LOCATE PRIOR TO BID.
- NEW FIRE ALARM DUCT MOUNTED SMOKE DETECTOR AND REMOTE TEST/INDICATOR STATION, EQUAL TO EXISTING AND COMPATIBLE WITH EXISTING SYSTEM. TIE INTO APPROPRIATE FIRE ALARM CIRCUITRY - FIELD LOCATE PRIOR TO BID.
- RELOCATE EXISTING 2x4 LIGHT FIXTURE TO NEW LOCATION SHOWN. PROVIDE ALL NEW CIRCUITRY AND CONTROLS AS INDICATED.
- CONNECT TO NEW 20 AMP, 1-POLE BREAKER (EQUAL TO EXISTING IN EXISTING PANEL WITH 2 #12, 1 #12 E.G. IN 3/4" CONDUIT. FIELD VERIFY ACTUAL CIRCUIT NUMBER.

N4A

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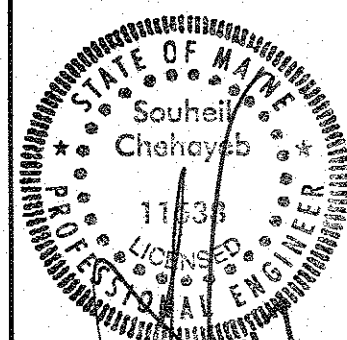
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SOUHEIL CHEHAYEB

16-46

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DVA PROJECT 402-10-542
CT SUITE ROOM 104 RENOVATION
BUILDING 200, 1st FLOOR
VA MAINE HEALTHCARE SYSTEM
1 VA CENTER
AUGUSTA, MAINE 04330

REVISIONS

RECORD DOCUMENTS
JANUARY 13, 2017

ISSUED FOR:

DATE:

☐ REVIEW 06/16/16

☐ BIDDING

☐ PERMIT

☒ CONSTRUCTION 07/12/16

SHEET TITLE

ELECTRICAL
LIGHTING PLAN
AND SCHEDULE

DATE

JUNE 16, 2016

PROJECT NO.

0316-02

SHEET NO.

E-2

CRITICAL NOTE

THESE ELECTRICAL DRAWINGS WERE CREATED FOR USE WITH THE TOSHIBA AQUILLION ONE VISION EDITION SYSTEM INSTALLATION DRAWINGS. REFER TO THE PLANS NOTED BELOW FOR ADDITIONAL ELECTRICAL DETAILS AND NOTES AND PROVIDE ACCORDINGLY. CONTRACTOR MUST COORDINATE THESE ELECTRICAL DRAWINGS WITH SIEMENS SYSTEM DRAWINGS TO PROVIDE A COMPLETE INSTALLATION. NOTIFY ARCHITECT/ENGINEER IF SYSTEM DRAWINGS ARE NOT AS INDICATED IN THIS NOTE.

TOSHIBA DRAWING LIST:

- GN1: GENERAL NOTES
A1: EQUIPMENT LAYOUT AND LEGEND
E1: ELECTRICAL LEGEND
E2: ELECTRICAL LAYOUT AND SCHEDULE
E3: ELECTRICAL SCHEMATIC AND DETAILS
E4: CABLE LENGTH DIAGRAM

ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH TOSHIBA REPRESENTATIVE FOR CLARIFICATION OF CABLES AND EQUIPMENT TO BE.

- SUPPLIED/INSTALLED BY TOSHIBA
- SUPPLIED/INSTALLED BY CONTRACTOR
- SUPPLIED BY TOSHIBA, INSTALLED BY CONTRACTOR
- AVAILABLE THROUGH TOSHIBA, INSTALLED BY CONTRACTOR

GENERAL NOTE:

EQUIPMENT LAYOUT, NOTES AND INTERCONNECTION WIRING ARE BASED UPON INFORMATION GIVEN TO THE ENGINEER AT TIME OF DESIGN. THE CONTRACTOR SHALL COORDINATE ALL CONDUIT REQUIREMENTS, ALL CABLING LENGTHS, AND EQUIPMENT LAYOUT OF ACTUAL EQUIPMENT FURNISHED WITH TOSHIBA REPRESENTATIVE PRIOR TO START OF CONSTRUCTION.

GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING WIRING AND EQUIPMENT MADE UNNECESSARY BY THE RENOVATION. ALL MATERIALS REMOVED SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH INTERIOR ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL OUTLETS AND WIRING DEVICES.
- ALL TELEPHONE/DATA DUAL JACKS AND CAT 6 CABLING TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ANY REQUIRED BOXES, CONDUIT, CABLE, JACKS, AND 12-PORT PATCH PANEL. CONNECTIONS AT JACKS AND AT VA DATA RACK IN ROOM #152 SHALL ALSO BE BY ELECTRICAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING TELE/DATA CABLES FOR ALL DEVICE LOCATIONS SCHEDULED FOR DEMOLITION BACK TO SOURCE.

SPECIAL NOTES:

- REFER TO ARCHITECTURAL PLANS FOR INFORMATION REGARDING CONSTRUCTION BARRIER AND CONTAINMENT REQUIREMENTS. ALL WORK SHALL BE PERFORMED TO MEET THESE REQUIREMENTS.
- PROVIDE 120 VOLT, 20 AMP CIRCUIT FROM CRITICAL BRANCH PANEL FOR THE NEGATIVE AIR SYSTEM FAN. THIS IS FOR TEMPORARY CONSTRUCTION USE ONLY. MAKE ALL CONNECTIONS REQUIRED. COMPLETELY REMOVE AT END OF PROJECT.

COORDINATION NOTES:

- THIS SHEET SHALL BE USED IN CONJUNCTION WITH TOSHIBA VENDOR REFERENCE DRAWINGS FOR CONNECTION REQUIREMENTS, CONDUITS, BOX SIZES, ETC.
- INFORMATION SHOWN IN THIS DOCUMENT IS AN EXTRACT OF THE INFORMATION SHOWN ON TOSHIBA DRAWINGS.

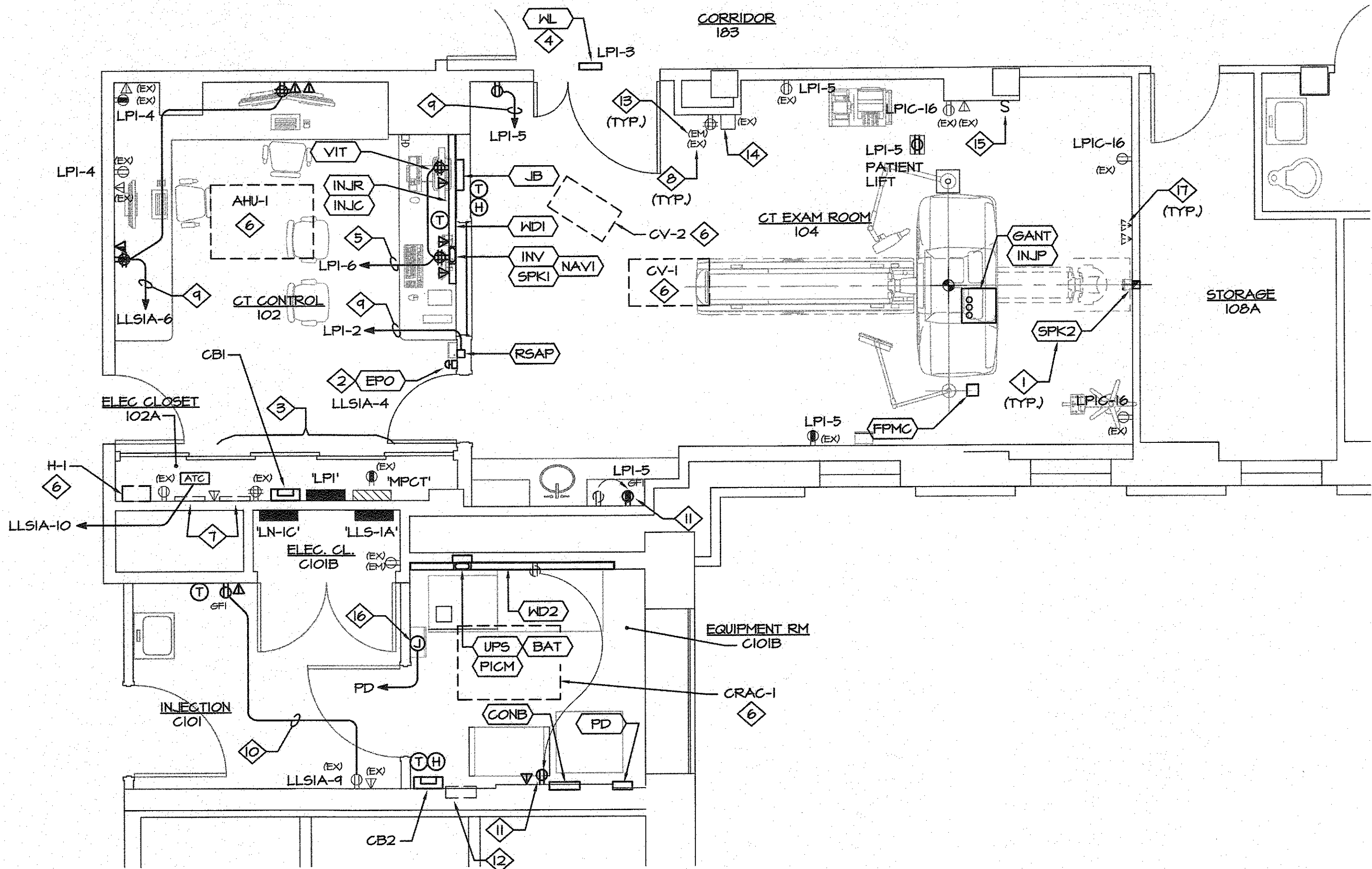
SITE SPECIFIC NOTE

INFORMATION SHOWN ON THIS DRAWING IS BASED ON INFORMATION PROVIDED TO ENGINEER AT TIME OF DESIGN. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES BACK TO ARCHITECT/ENGINEER PRIOR TO BID.

CONDUIT AND WIRE SYSTEMS WITHIN THIS PROJECT SHALL COMPLY WITH REQUIREMENTS FOR REDUNDANT GROUNDING PER N.E.C. 517.13(A)(B).

SYSTEM GROUNDING NOTES

- DEDICATED EARTH CONDUCTOR (GROUND) SHALL BE SAME SIZE AS POWER WIRES AT ALL TIMES FOR ALL ROUTINGS FROM GROUNDED NEUTRAL SOURCE TO TOSHIBA EQUIPMENT (REFER TO DETAILS ON TOSHIBA DRAWINGS).
- GROUND THE NEWLY DERIVED NEUTRAL IN ACCORDANCE WITH N.E.C. ART. 250.30. HOWEVER, DO NOT USE ELECTRICAL CONDUITS OR ELECTRICAL RACEWAYS AS GROUNDING ELECTRODES.
- VERIFY WITH EQUIPMENT SUPPLIER/INSTALLER FOR ALL REQUIRED GROUNDING LOCATIONS AND PROVIDE ACCORDINGLY.
- ALL METAL DEVICES, INCLUDING METAL SURFACES OF FIXED MEDICAL EQUIPMENT, WITHIN THE PROCEDURE ROOM SHALL BE BONDED WITH MINIMUM #10 AWG CU ITEMS SHALL INCLUDE, BUT NOT LIMITED TO:
 - MEDICAL GAS PIPES AND WATER PIPES
 - ALL INTERCOM, TELEPHONE AND NURSE CALL OUTLET BOXES
 - ALL EXPOSED CONDUCTIVE SURFACES
 - GROUNDING TERMINAL OF ROOM RECEPTACLES
- ELECTRICAL CONTRACTOR SHALL PERFORM EQUIPOTENTIAL GROUND TESTING IN THE PATIENT CARE AREAS WITH AN APPROVED METER AS STIPULATED IN NFPA 49 SECTION 4.3.3. TESTING REPORTS SHALL BE PROVIDED TO THE OWNER AND ARCHITECT, AND ONE COPY SHALL REMAIN AT THE JOB SITE FOR REFERENCE BY THE INSPECTING AUTHORITIES.



ELECTRICAL POWER PLAN

SCALE: 1/4" = 1'-0"

DEMOLITION NOTES:

- COMPLETELY REMOVE ALL ELECTRICAL WITHIN THE AREA OF RENOVATION.
- ALL EXISTING FIRE ALARM DEVICES SHALL BE MAINTAINED.

PLAN KEY NOTES

- TOSHIBA EQUIPMENT DESIGNATION. REFER TO REFERENCE VENDOR DRAWINGS ON SHEET E-4 AND E-4.1.
- NEW SYSTEM EMERGENCY POWER OFF, FLUSH MOUNTED, SHUNT-TRIP PUSHBUTTON (EPO). SEE DETAIL ON SHEET E-4.1.
- REFER TO POWER RISER DIAGRAM ON SHEET E-6 FOR WORK ASSOCIATED WITH BRANCH PANELS.
- WALL MOUNTED "X-RAY IN USE" WARNING LIGHT EQUAL TO LITHONIA #LQM-PWIR-120/271-SN16. COORDINATE WITH TOSHIBA DRAWING DETAIL FOR REQUIRED RELAY AND TERMINATION OF ASSOCIATED CONDUIT AND WIRE SYSTEM FOR CONNECTION TO EQUIPMENT. MAINTAIN EXISTING 120 VOLT CIRCUIT.
- CONNECT TO EXISTING CIRCUIT BREAKER MADE AVAILABLE AFTER DEMOLITION. REFER TO PANEL SCHEDULE AND FIELD VERIFY ACTUAL CIRCUIT NUMBER.
- REFER TO MECHANICAL EQUIPMENT WIRING DETAIL ON SHEET E-5 FOR NEW UNIT.
- EXISTING WALL MOUNTED X-RAY VIEWER TO BE COMPLETELY REMOVED.
- EXISTING WIRING DEVICE TO REMAIN.
- CONNECT TO NEW 20AMP, 1-POLE CIRCUIT BREAKER (EQUAL TO EXISTING) IN EXISTING PANEL WITH 2 #12, 1 #12 E.G. IN 3/4" CONDUIT. FIELD VERIFY ACTUAL CIRCUIT NUMBER.
- CONNECT TO EXISTING CIRCUIT WITH MATCHING CONDUIT AND WIRE SIZES (FIELD VERIFY).
- NEW DUPLEX RECEPTACLE. EXTEND/REROUTE/RECONNECT EXISTING CIRCUIT AS REQUIRED.
- COMPLETELY REMOVE EXISTING RECESSED WALL BOX.
- EXISTING WIRING DEVICE CONNECTED TO EMERGENCY POWER.
- EXISTING CODE BLUE CALL STATION TO REMAIN. FIELD VERIFY ALL RELATED COMPONENTS, DEVICES, CIRCUITRY, ETC., AND MAINTAIN.
- WARNING LIGHT SHUT OFF SWITCH. REFER TO DETAIL 3/E3 ON SHEET E-4.1 FOR ADDITIONAL INFORMATION.
- PROVIDE 120 VOLT POWER AND CONNECTION TO PDU IN-RUSH MONITOR.
- EXISTING WIRING DEVICE TO BE COMPLETELY REMOVED.

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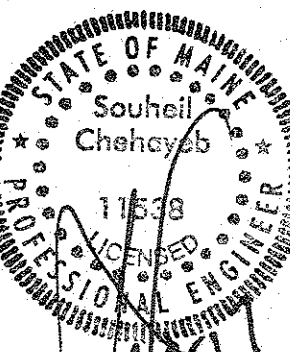
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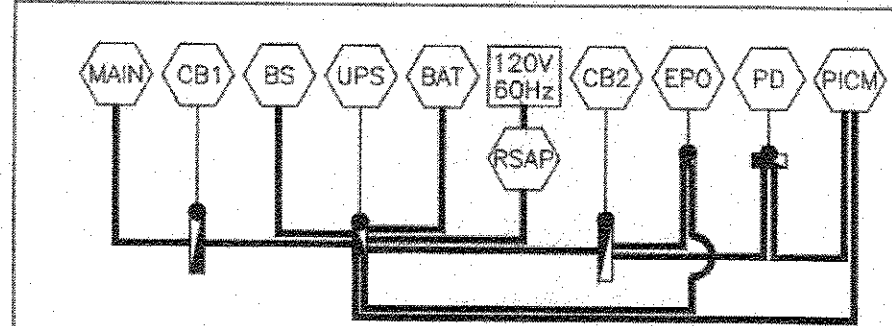
SHEET TITLE
ELECTRICAL
POWER PLAN
AND DETAILS

DATE
JUNE 16, 2016

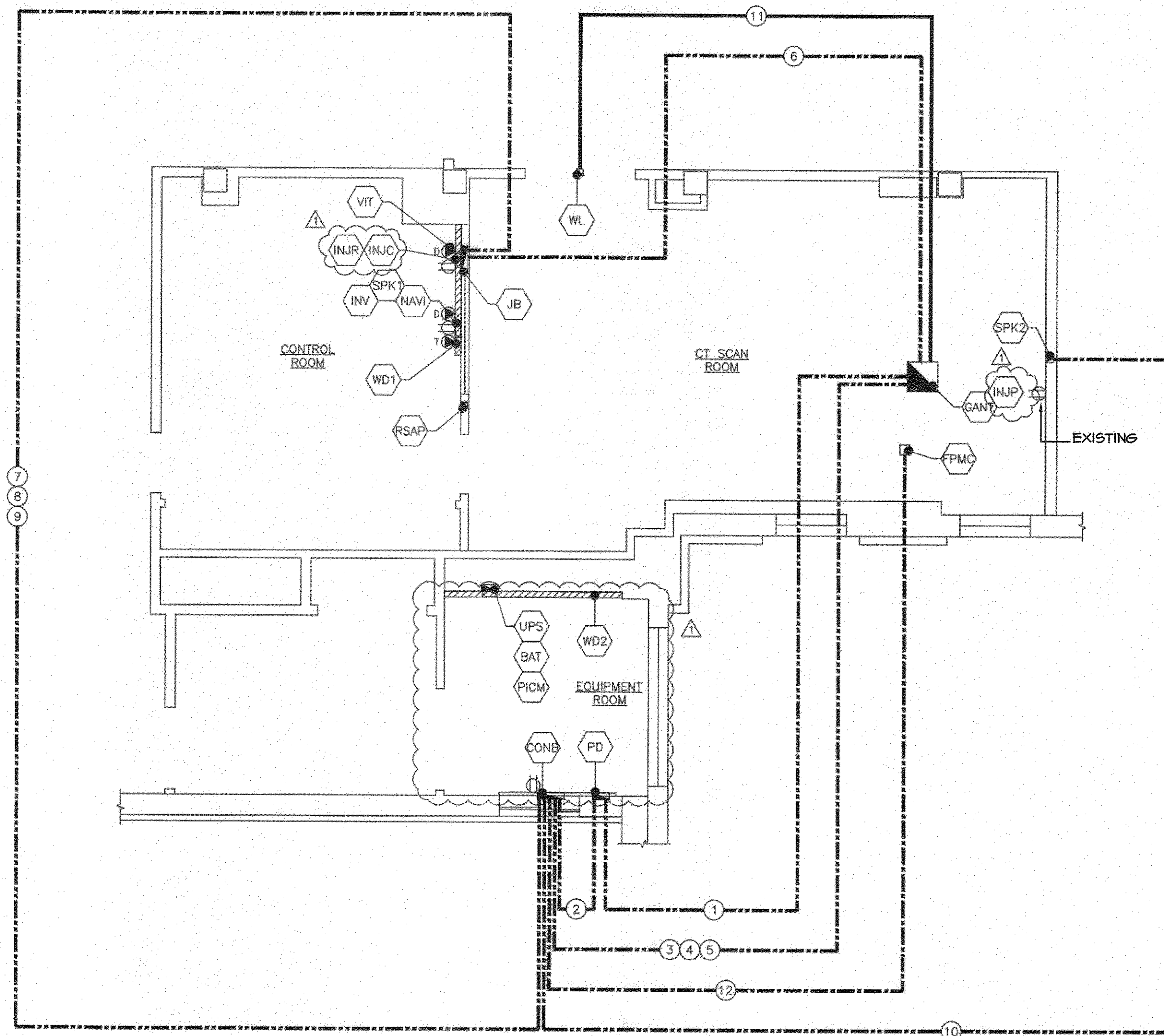
PROJECT NO.
0316-02

SHEET NO.

E-3



NOTE:
FOR ABOVE CONNECTIONS, SEE DETAIL 2, SHEET E3.
FOR CONNECTIONS BETWEEN "UPS" & "BAT", SEE DETAIL 6, SHEET E3.
ALL CABLES AND CONDUITS REQUIRED ARE TO BE PROVIDED BY CUSTOMER CONTRACTOR.



ELECTRICAL SCHEMATIC
(PROVIDED FOR REFERENCE PURPOSES ONLY)



CABLE KEY	
CONDUIT RUN IN/UNDER FLOOR	IN/UNDER FLOOR
CONDUIT RUN OVER CEILING	OVER CEILING
CONDUIT RUN CONTRACTOR DETERMINED	CONTRACTOR DETERMINED

CONDUIT SCHEDULE

CONTRACTOR CONDUIT REFERENCE					CABLE REFERENCE				
RUN NO.	CONDUIT (POINT TO POINT)		CONDUIT (ROUTING)	CONDUIT (DIAMETER)	CONDUIT (MAX LENGTH)	CABLE (POINT TO POINT)		CABLE LENGTH (USABLE)	CABLES (SUPPLIED BY)
①	PD	GANT	UNDER FLOOR	(2) 2 1/2"	60'-0"	PD	GANT	SEE RUN "B" DETAIL (1/E4)	TOSHIBA
②	PD	CONB	UNDER FLOOR	2 1/2"	63'-0"	PD	CONB	SEE RUN "C" DETAIL (1/E4)	TOSHIBA
③	CONB	GANT	UNDER FLOOR	2"	60'-0"	CONB	GANT	SEE RUN "D" DETAIL (1/E4)	TOSHIBA
④	CONB	GANT	UNDER FLOOR	(2) 3"	60'-0"	CONB	GANT	SEE RUN "E" DETAIL (1/E4)	TOSHIBA
⑤	CONB	GANT	UNDER FLOOR	2"	60'-0"	CONB	GANT	SEE RUN "F" DETAIL (1/E4)	TOSHIBA
⑥	GANT	JB	UNDER FLOOR	1"	57'-0"	GANT	INV	SEE RUN "J" DETAIL (1/E4)	TOSHIBA
⑦	CONB	JB	UNDER FLOOR	1"	60'-0"	CONB	INV	SEE RUN "K" DETAIL (1/E4)	TOSHIBA
⑧	CONB	JB	UNDER FLOOR	3"	60'-0"	CONB	NAVI	SEE RUN "G" DETAIL (1/E4)	TOSHIBA
⑨	CONB	JB	UNDER FLOOR	1/2"	19'-0"	CONB	SPK3	SEE RUN "H" DETAIL (1/E4)	TOSHIBA
⑩	CONB	SPK2	UNDER FLOOR	1/2"	30'-0"	CONB	SPK2	SEE RUN "I" DETAIL (1/E4)	TOSHIBA
⑪	WL	GANT	CONTRACTOR DETERMINED	PER MANUFACTURER	PER MANUFACTURER	WL	GANT	PER MANUFACTURER	CONTRACTOR
⑫	FPMC	CONB	OVER CEILING	2"	41'-0"	FPMC	CONB	50'-0" (SIGNAL)	TOSHIBA

NOTE:
A. CONDUITS SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR.
B. ALL CONDUIT RUNS MUST TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE.
C. CONDUIT IS NOT TO BE RUN IN SUCH A MANNER THAT WILL EXCEED CONDUIT MAXIMUM LENGTH AS SHOWN IN THE SCHEDULES.

COORDINATION NOTES:

- THIS SHEET SHALL BE USED IN CONJUNCTION WITH TOSHIBA VENDOR REFERENCE DRAWINGS FOR CONNECTION REQUIREMENTS, CONDUITS, BOX SIZES, ETC.
- INFORMATION SHOWN IN THIS DOCUMENT IS AN EXTRACT OF THE INFORMATION SHOWN ON TOSHIBA DRAWINGS.
- INFORMATION SHOWN ON SHEET E-4 IS PROVIDED TO SHOW CONDUIT, WIRE, BOXES, ETC., BETWEEN TOSHIBA EQUIPMENT AND DEVICES. THE ACTUAL PLACEMENT OF THIS EQUIPMENT IS SHOWN ON SHEET E-3. THEREFORE, A CLOSE COORDINATION IS REQUIRED BETWEEN THE TWO DRAWINGS TO ASSURE PROPER EXECUTION OF THESE DOCUMENTS.

**VA AUGUSTA
TOGUS**

(AQUILION - ONE VISION)
1 VA CTR
AUGUSTA, ME 04330

DATE: 05-12-16
SCALE: 1/4" = 1'-0"
PLANNER: G.O.
SID: 30007427
PROJECT NO.
140014842CTF1

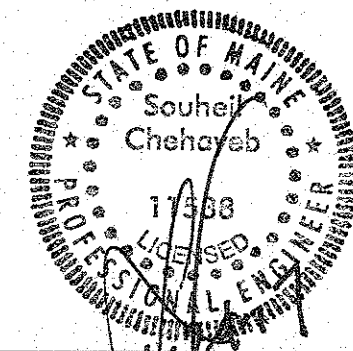
E2

TOSHIBA
Leading Innovation >>>

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DVA PROJECT 402-10-542
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CONSTRUCTION: 07/12/16

SHEET TITLE
REFERENCE
VENDOR'S
DRAWINGS

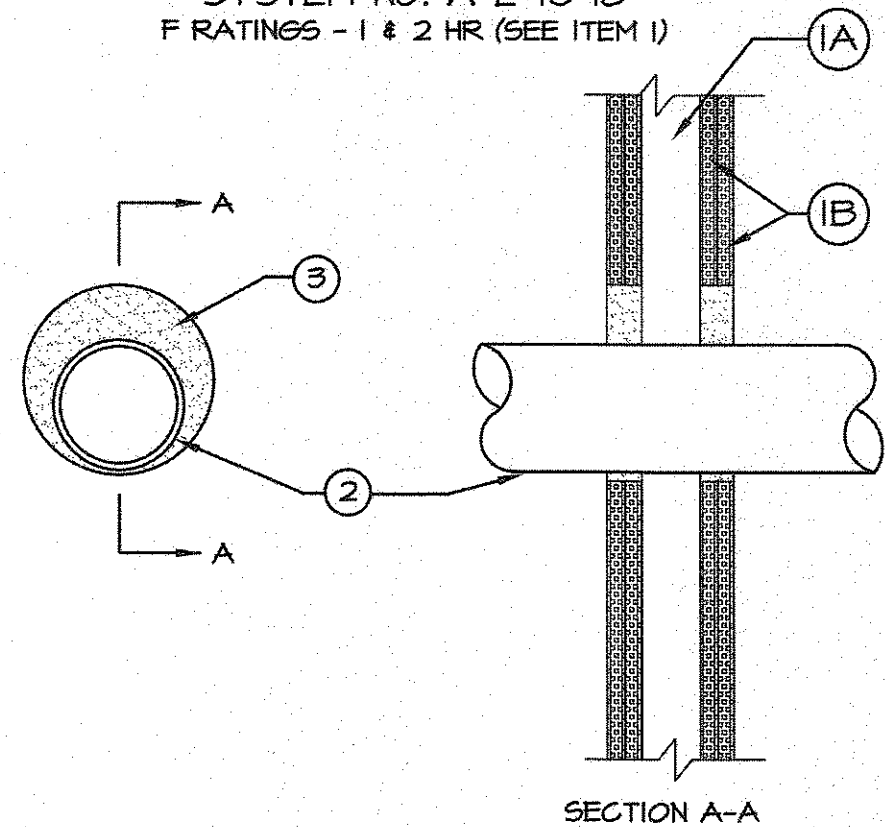
DATE
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PROJECT NO.
0316-02

SHEET NO.

E-4

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THROUGH-PENETRATION DETAIL

SYSTEM No. W-L-1048
F RATINGS - 1 & 2 HR (SEE ITEM 1)

SECTION A-A

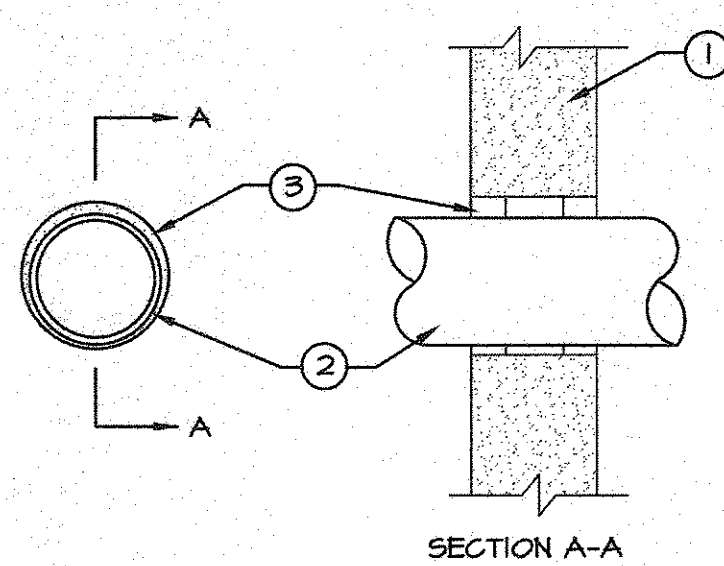
- WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNELS STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. O.C.
 - WALLBOARD, GYPSUM* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 14-1/8 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
- THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN 3/8 IN. TO MAX 1 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
 - STEEL PIPE
 - IRON PIPE
 - CONDUIT - NOMINAL 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT. WHEN EMT OR STEEL CONDUIT IS USED T RATING IS 1/4 HR.
 - COPPER TUBING
 - COPPER PIPE
- FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. AND 1-1/4 IN. THICKNESS OF FILL MATERIAL FOR 1 AND 2 HR RATED WALL ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.

FIRESTOP SYSTEMS, INC. - 4800DN (RED)

* BEARING THE U.L. CLASSIFICATION MARKING.

76A

THROUGH-PENETRATION DETAIL

SYSTEM No. W-J-1048
F RATINGS - 2 HR

SECTION A-A

- WALL ASSEMBLY - MIN 6-1/8 IN. THICK NORMAL WEIGHT OR LIGHTWEIGHT (100-150PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY U.L. CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 14-1/8 IN. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAME OF MANUFACTURERS.
- THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN 3/8 IN. TO MAX 1 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
 - STEEL PIPE
 - IRON PIPE
 - CONDUIT - NOMINAL 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT. WHEN EMT OR STEEL CONDUIT IS USED T RATING IS 1/4 HR.
 - COPPER TUBING
 - COPPER PIPE
- FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 1-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.

FIRESTOP SYSTEMS, INC. - FLOWGUARD GOLD FIRESTOP SEALANT (RED)

* BEARING THE U.L. CLASSIFICATION MARKING.

76C

EXISTING CONDITION NOTES

GENERAL:

THESE DRAWINGS ARE BASED ON EXISTING DOCUMENTS FOR THE SAID BUILDING AND ON A VISUAL FIELD OBSERVATION. THEREFORE, IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION AND AVAILABLE BRANCH PANELBOARDS, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BID. FAILURE TO DO SO MAY CONSTITUTE THAT THE ELECTRICAL CONTRACTOR PROVIDE ANY AND ALL ADDITIONAL EQUIPMENT, LABOR, ETC. TO MEET THE INTENDED DESIGN PARAMETERS AT HIS/HER SOLE EXPENSE.

SPECIFIC ITEMS TO BE VERIFIED:

ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION AND TYPE OF EXISTING SERVICE DISTRIBUTION PANELBOARDS SERVING THE PROJECT AREA.

ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXISTING FIRE ALARM DEVICES SERVING THE PROJECT AREA. REMOVE ANY EXISTING DEVICES AFFECTED BY RENOVATION AND MAINTAIN CIRCUIT CONTINUITY TO REMAINING DEVICES.

ELECTRICAL CONTRACTOR SHALL REVISE ALL EXISTING PANEL DIRECTORIES, AS REQUIRED, TO REFLECT ALL REVISIONS. PROVIDE NEW DIRECTORIES FOR PANELS WITH CURRENT DIRECTORIES MISSING.

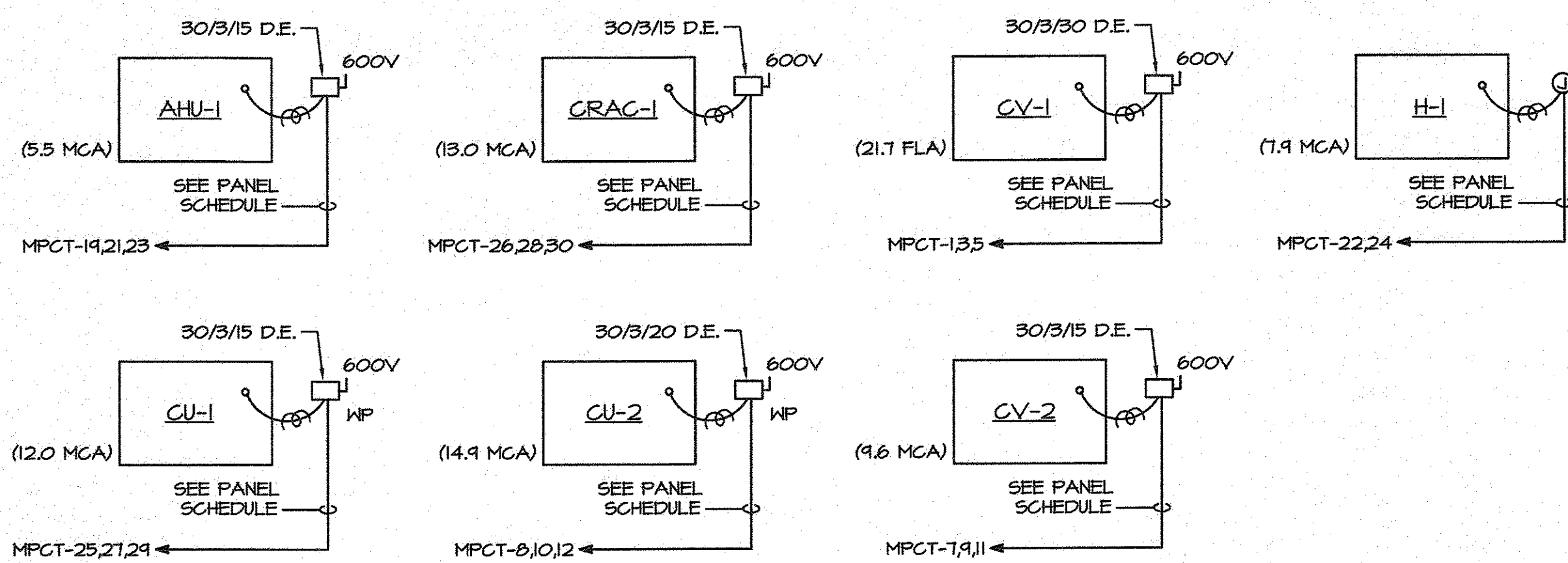
NOTES

- IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PRIOR TO SUBMITTING A BID.
- REPORT ANY DISCREPANCIES TO ARCHITECT OR ENGINEER PRIOR TO BID.
- BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK.
- IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION, SERVICE LAYOUTS, TELEPHONE LOCATION, ETC.
- THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.
- COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION, RECONNECTION, ETC.) AND ARE NOT INDICATED ON ELECTRICAL DRAWINGS.

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS.

76B

WIRING DETAILS



NOTES:

- VERIFY NAMEPLATE RATINGS, LOCATIONS, AND POINT OF POWER CONNECTIONS PRIOR TO ROUGH-IN.
- DO NOT LOCATE DISCONNECT SWITCHES OVER UNIT ACCESS PANELS.
- PROVIDE A 3/4" EMPTY CONDUIT THROUGH INACCESSIBLE LOCATIONS (I.E., WALLS, UNDER SLAB) FOR CONTROL WIRING. COORDINATE WITH MECHANICAL PLANS.
- EQUIPMENT REQUIREMENTS ARE FOR MANUFACTURER AND MODEL NUMBER LISTED ON MECHANICAL PLANS. THE MECHANICAL CONTRACTOR SHALL BEAR ANY ADDITIONAL COSTS INCURRED IF ALTERNATE EQUIPMENT IS PROVIDED.
- VERIFY ACTUAL EQUIPMENT NAMEPLATE MAXIMUM OVERCURRENT PROTECTION RATINGS AND ADJUST FUSE SIZES ACCORDINGLY. INSTALL 'RK-5' TYPE FUSES AND CLASS 'R' REJECTION CLIPS.

76A

PROJECT SYMBOLS LEGEND

MOUNTING HEIGHTS SHOWN ARE MAXIMUM/MINIMUM HANDICAPPED ACCESSIBILITY STANDARDS - THEY SHALL NOT BE ALTERED WITHOUT WRITTEN AUTHORIZATION.

- | | |
|--|---|
| | FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE |
| | INCANDESCENT OR HID LIGHT FIXTURE, LETTER INDICATES TYPE |
| | WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE |
| | EXIT LIGHT (ARROW INDICATES DIRECTION) |
| | BATTERY POWERED EMERGENCY LIGHT |
| | SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHT CONTROLLED, MOUNT 48" AFF. U.O.N. |
| | DOUBLE POLE SWITCH, MOUNT 48" AFF. U.O.N. |
| | THREE-WAY SWITCH, MOUNT 48" AFF. U.O.N. |
| | FOUR-WAY SWITCH, MOUNT 48" AFF. U.O.N. |
| | SINGLE POLE SWITCH WITH PILOT LIGHT, MOUNT 48" AFF. U.O.N. |
| | KEY OPERATED SINGLE POLE SWITCH, MOUNT 48" AFF. U.O.N. |
| | DIMMER SWITCH, WATTS AS NOTED, MOUNT 48" AFF. U.O.N. |
| | DUPLEX RECEPTACLE HOSPITAL-GRADE, MOUNT 18" AFF. U.O.N. |
| | DUPLEX RECEPTACLE HOSPITAL-GRADE, MOUNT ABOVE COUNTER HEIGHT U.O.N. |
| | QUADRUPLEX RECEPTACLE HOSPITAL-GRADE, MOUNT 18" AFF. U.O.N. |
| | FLOOR MOUNTED DUPLEX RECEPTACLE HOSPITAL-GRADE. |
| | GROUND FAULT INTERRUPTER RECEPTACLE, HOSPITAL-GRADE, MOUNT ABOVE COUNTER HEIGHT U.O.N. |
| | DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, HOSPITAL-GRADE, MOUNT AT 18" AFF. U.O.N. |
| | 277/480V, 3-PH PANELBOARD |
| | LIGHTING OR POWER PANELBOARD |
| | QUAD TELEPHONE/DATA WALL OUTLET, PROVIDE SINGLE GANG BOX WITH 1" CONDUIT WITH FULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 18" AFF. U.O.N. |
| | QUAD TELEPHONE/DATA WALL OUTLET, PROVIDE SINGLE GANG BOX WITH 1" CONDUIT WITH FULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX ABOVE COUNTER HEIGHT, U.O.N. |
| | JUNCTION BOX (FLUSH MOUNT IN FINISHED AREAS U.O.N.) |
| | DEVICE AS NOTED |
| | TELEPHONE BACKBOARD WITH #6 GND. (SIZE AS NOTED) |

NOT ALL DEVICES SHOWN IN LEGEND ARE REQUIRED. REVIEW POWER & LIGHTING PLANS AND DETAILS FOR ITEMS WHICH APPLY TO THIS PROJECT.

- | | |
|--|--|
| | MAIN SWITCHBOARD |
| | MAIN DISTRIBUTION PANEL |
| | SPECIAL NOTES, SEE PLANS |
| | CONDUIT CONCEALED IN WALL OR ABOVE CEILING WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N. |
| | CONDUIT CONCEALED BELOW FLOOR SLAB OR FINISHED GRADE WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N. |
| | CONDUIT EXPOSED ON WALL OR CEILING WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N. |
| | FLEXIBLE CONDUIT NOT TO EXCEED 6 FEET IN LENGTH |
| | T.V. CAMERA |
| | T.V. MONITOR |
| | TELEVISION OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" CONDUIT WITH FULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 18" AFF. U.O.N. |
| | DISCONNECT SWITCH |
| | DISCONNECT DESIGNATION (SIZE/POLES/FUSE) "NF" INDICATES NON-FUSED; "DE" INDICATES DUAL ELEMENT FUSES. |
| | COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SWITCH |
| | DRY TYPE TRANSFORMER |
| | CONTACTOR (AS NOTED) |
| | TIME CLOCK |
| | PHOTO-CELL |
| | MOTOR PERMANENTLY CONNECTED WITH FLEXIBLE CONDUIT |
| | PHOTOELECTRIC SMOKE DETECTOR |
| | FIRE ALARM AUDIO/VISUAL (ADA) MOUNTED AT 80" AFF. TO BOTTOM. |
| | FIRE ALARM STROBE (ADA) (80" AFF. TO BOTTOM). |
| | DUCT MOUNTED PHOTOELECTRIC SMOKE DETECTOR |
| | FAN SHUTDOWN RELAY |
| | REMOTE TEST/INDICATOR STATION, MOUNT AT 48" AFF., ACCESSIBLE TO FIRE INSPECTORS AND ADJACENT TO AHU IN MECHANICAL CLOSET. |

ABBREVIATIONS

- | | | | | | | | |
|----|-----------------------|--------|-----------------------|----|---------------------|--------|------------------------|
| EG | EQUIPMENT GROUND | EW | ELECTRIC WATER COOLER | NL | NIGHT LIGHT | AFG | ABOVE FINISH GRADE |
| IG | ISOLATED GROUND | EF-EF | EXHAUST FAN | CT | CURRENT TRANSFORMER | U.O.N. | UNLESS OTHERWISE NOTED |
| WP | WEATHERPROOF | AH-AHU | AIR HANDLING UNIT | EX | EXISTING DEVICE | N.T.S. | NOT TO SCALE |
| BH | ELECTRIC WATER HEATER | ACC-CU | CONDENSING UNIT | AF | ABOVE FINISH FLOOR | NC | NOT IN CONTRACT |

NOTE: MOUNTING HEIGHTS NOTED ARE TO CENTERLINE OF DEVICE SHOWN U.O.N.

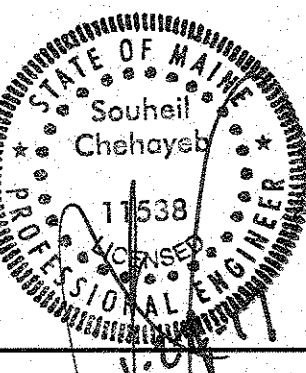
DEMOLITION NOTES

- ELECTRICAL PLANS DO NOT INCLUDE A DEMOLITION PLAN FOR THE RENOVATED AREAS. THE RENOVATED AREAS, INCLUDING WALLS, CEILINGS, ETC., TO BE REMOVED, ARE SHOWN ON THE ARCHITECTURAL PLANS. MAJOR MECHANICAL EQUIPMENT TO BE REMOVED IS SHOWN ON THE MECHANICAL PLANS. CONTRACTOR SHALL REVIEW THESE PLANS AND COORDINATE WITH THE GENERAL CONTRACTOR ON SITE TO DETERMINE THE EXTENT OF THE DEMOLITION WORK AND PROJECT PHASING REQUIRED AND PROVIDE ACCORDINGLY. ALL ELECTRICAL DEMOLITION WORK SHOWN OR IMPLIED IN THE ELECTRICAL, MECHANICAL, PLUMBING, AND ARCHITECTURAL PLANS SHALL BE PART OF THE ELECTRICAL CONTRACTOR'S WORK.
- ELECTRICAL DEMOLITION WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVING RECEPTACLES, WIRE, CONDUIT, ETC., AS REQUIRED FOR THE INSTALLATION OF NEW EQUIPMENT AND REMODELING OF THE EXISTING FACILITY AS INDICATED ON THE PLANS.
- ELECTRICAL CONTRACTOR SHALL REMOVE ANY EXPOSED WIRE, CONDUIT, HANGERS, CLAMPS, ETC., WHICH ARE NOT BEING UTILIZED FOR THE NEW INSTALLATION.
- EXISTING WIRE AND CONDUITS CONCEALED ABOVE CEILING OR IN WALLS AND NOT BEING REUSED SHALL BE REMOVED. EXISTING CONDUITS, WHERE APPLICABLE, MAY BE REUSED.
- REVISE ALL EXISTING PANEL DIRECTORIES TO REFLECT ALL REVISIONS.
- ALL LIGHTING FIXTURES BEING RELOCATED OR SHOWN ON PLANS DENOTED WITH (RE) SHALL BE CLEANED, RE-LAMPED, AND REPAIRED TO PROPER WORKING CONDITION IF REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE RUBBER MATS AND PLYWOOD COVERS TO ALL OWNER'S EQUIPMENT SUSCEPTIBLE TO DAMAGE DURING CONSTRUCTION. VERIFY SPECIFIC LOCATIONS WITH OWNER'S AUTHORIZED REPRESENTATIVE.
- ALL WORK SHALL BE PERFORMED DURING TIME PERIODS ACCEPTABLE TO THE OWNER. SCHEDULE ALL WORK WITH THE OWNER'S AUTHORIZED REPRESENTATIVE 48 HOURS BEFORE PROCEEDING. WORK REQUIRING TELE/ DATA ROOM ACCESS SHALL BE SCHEDULED 5 WORKING DAYS IN ADVANCE.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND BE THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH THE WORK MUST BE PERFORMED.
- ANY LIGHTING FIXTURES AND LAMPS BEING REMOVED SHALL BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER. COORDINATE DISPOSITION OF ALL FIXTURES WITH OWNER PRIOR TO REMOVAL.

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS.

76A

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VALRICO, FLORIDA 33596
TEL: 813-661-7586



DVA PROJECT 402-10-542
CT SUITE ROOM 104 RENOVATION
BUILDING 200, 1st FLOOR
VA MAINE HEALTHCARE SYSTEM
1 VA CENTER
AUGUSTA, MAINE 04330

REVISIONS
RECORD DOCUMENTS
JANUARY 13, 2017

ISSUED FOR: _____ DATE: _____
REVIEW: _____ 06/16/16
BIDDING: _____
PERMIT: _____
CONSTRUCTION: _____ 07/12/16

LEGEND,
NOTES, AND
DETAILS

DATE: JUNE 16, 2016
PROJECT NO: 0316-02
SHEET NO.

E-5

SOUHEIL CHEHAYEB, P.E.
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LIC #11538

SOUHEIL CHEHAYEB

16-46

MANUFACTURER: GE				EXISTING PANEL: LP1				LOCATION: ELEC. CL. 102A				SPECIAL:									
PANEL TYPE: A-SERIES				FED FROM: MDP				120/208 VOLTS 3 PHASE 4 WIRE/SOLID NEUTRAL				AMPERE BUS 225 AMPERE MAIN 225									
(EX) INTERRUPTING CAPACITY (AIC)				RATED SERIES: - FULL: X				MOUNTING: FLUSH - SURFACE: X				MAIN TYPE LUGS									
No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	A	B	C	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No.	
0.0						AREA NOT USED			0.0					AREA NOT USED					0.0		
0.0									0.0											0.0	
0.0									0.0											0.0	
0.0									0.0											0.0	
1	0.6	-	EX	EX	EX	LIGHTING	L	20			0.9	20	M	RSAP	2#12	1#12	3/4"	NB	0.3	2	
3	0.2	-	EX	EX	EX	REC - ELEC. CLOSET	R	20	1.0			20	R	REC - CONTROL	EX	EX	EX	-	0.8	4	
5	0.4	-	EX	EX	EX	REC - EXAM	R	20		1.2		20	R	REC - CONTROL	2#12	1#12	3/4"	-	0.8	6	
7	0.0	-	-	-	-	SPARE	-	30			1.0	20	M	(UNMARKED)	EX	EX	EX	-	1.0	8	
9	0.0	-	-	-	-	SPARE	-	30	0.0						-	-	-	-	0.0	10	
11	0.0	-	-	-	-	SPARE	-	40		0.0		20	-	SPARE	-	-	-	-	0.0	12	
13	0.0	-	-	-	-	SPARE	-	40			0.0				-	-	-	-	0.0	14	
15	0.0	-	-	-	-	SPACE ONLY	-	-	0.0						-	-	-	-	0.0	16	
17	0.0	-	-	-	-	SPARE	-	20		0.0		30	-	SPARE	-	-	-	-	0.0	18	
19	0.0	-	-	-	-	SPARE	-	20			0.0				-	-	-	-	0.0	20	
21	0.0	-	-	-	-	SPARE	-	-	0.4			20	R	REC - EQUIP. RM.	EX	EX	EX	-	0.4	22	
23	0.0	-	-	-	-	SPARE	-	60			0.0	20	-	SPARE	-	-	-	NB	0.0	24	
25	0.0	-	-	-	-	SPARE	-	-			0.0	20	-	SPARE	-	-	-	NB	0.0	26	
LEGEND/NOTES:																		CONNECTED LOAD KVA: 4.5			
20(1) - PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER																		STD. DEMAND FACTOR (1.0): 3.9			
																		+ LTG DEMAND (1.25 LTG): 0.8			
																		+ KITCHEN DEMAND: 0.0			
																		TOTAL DEMAND KVA: 4.7			
																		DEMAND AMPERES: 12.9			
																		KITCHEN MULTIPLIER PER NEC 2011 TABLE 220.56			

MANUFACTURER: SQUARE 'D'				EXISTING PANEL: MPCT				LOCATION: ELEC. CL. 102A				SPECIAL:								
PANEL TYPE: NF		FED FROM: MDP		277/480 VOLTS		3 PHASE 4 WIRE/SOLID NEUTRAL		AMPERE BUS 250		AMPERE MAIN 250										
(EX) INTERRUPTING CAPACITY (AIC)				RATED SERIES: - FULL: X				MOUNTING: FLUSH - SURFACE: X				MAIN TYPE LUGS								
No.	KVA	NOTE	WIRE	COND	Description	LD	BRK	A	B	C	BRK	LD	Description	WIRE	COND	NOTE	KVA	No.		
1	6.0				CV-1	A3	30	9.6			A3	30	CRAC-1	3#10	1#10	3/4"	NB	3.6	2	
3	6.0	NB	3#10	1#10		A3			9.6			A3						3.6	4	
5	6.0					A3				9.6		A3						3.6	6	
7	2.7					A3			6.0			A3						3.3	8	
9	2.7	NB	3#10	1#10	CV-2	A3	30		6.0		A3	30	CU-1	3#8	1#8	3/4"	NB	3.3	10	
11	2.7				AHU-1	A3				6.0	A3							3.3	12	
13	1.5	-				A3			1.5									0.0	14	
15	1.5	-	3#10	1#10		A3	30			1.5		125	-	SPARE	-	-	-	0.0	16	
17	1.5	-				A3					1.5		-					0.0	18	
19	4.1				CU-2	A3		4.1					(SHUNT TRIP)					0.0	20	
21	4.1	NB	3#8	1#8		A3	30			6.0		15	A	H-1	2#12	1#12	3/4"	NB	1.9	22
23	4.1					A3					6.0								1.9	24
25	0.0	-					-		0.0				-						0.0	26
27	0.0	-			SPARE	-	30		0.0		30	-	SPARE	-	-	-	-	0.0	28	
29	0.0	-			SPARE	-	-			0.0		-					-	0.0	30	
LEGEND/NOTES:																		CONNECTED LOAD KVA: 67.4		
20(1) - PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER																		STD. DEMAND FACTOR (1.0): 67.4		
																		+ LTG DEMAND (1.25 LTG): 0.0		
																		+ KITCHEN DEMAND: 0.0		
																		TOTAL DEMAND KVA: 67.4		
																		DEMAND AMPERES: 81.1		
																		KITCHEN MULTIPLIER PER NEC 2011 TABLE 220.56		

PANEL SCHEDULE LEGEND

IG = ISOLATED GROUND CIRCUIT

GFI = GROUND FAULT INTERRUPTER

R# = RELAY CONTROLLED (#) INDICATES RELAY NUMBER

C# = CONTACTOR CONTROLLED (#) INDICATES CONTACTOR NUMBER

NB = NEW BREAKER EQUAL TO EXISTING

EX = EXISTING CIRCUITRY TO REMAIN

PANEL SCHEDULE LOAD CODES

AA3 = HVAC LOAD

K# = KITCHEN LOADS (1, 2 OR 3 CIRCUIT)

LL3 = LIGHTING LOAD

MM3 = MISCELLANEOUS LOAD

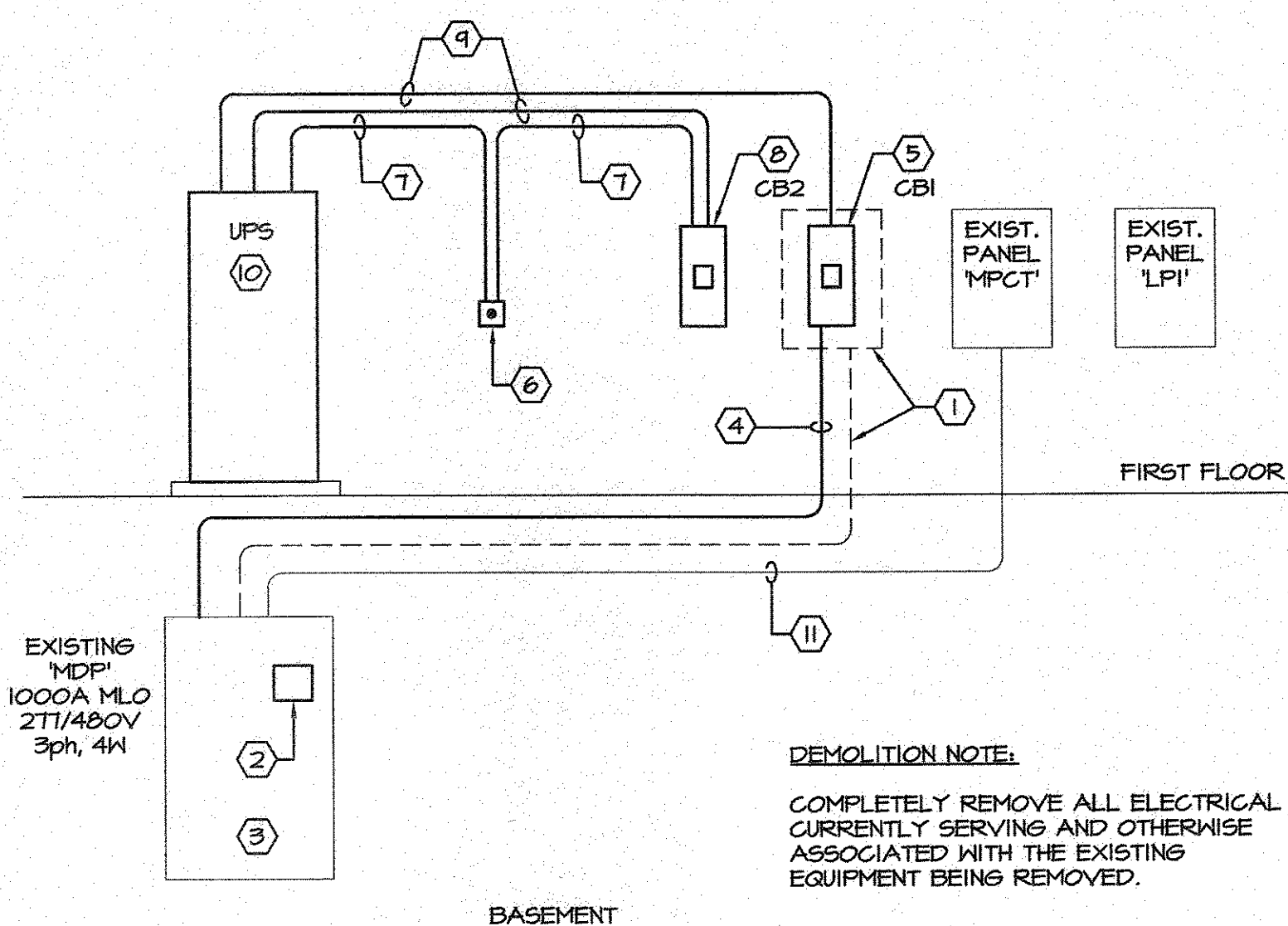
R = RECEPTACLE LOAD

FF3 = REFRIGERATION LOAD

WW3 = WATER HEATER

UH = USER SPECIFIED LOAD

X = EXCLUDED, NON-CONCURRENT LOAD. (HVAC LOADS ARE NON-CONCURRENT; TOTALS BASED ON HIGHER VALUE.)



PARTIAL EXISTING POWER RISER DIAGRAM

NO SCALE

LINE LEGEND:

EXISTING TO REMAIN _____

EXISTING TO BE REMOVED - - - - -

NEW WORK THIS SCOPE _____

- KEY NOTES**
- COMPLETELY REMOVE EXISTING 100 AMP PANEL 'MPI' AND ALL ASSOCIATED CIRCUITRY. PROVIDE NEW ENCLOSED CIRCUIT BREAKER AT SAME LOCATION - REFER TO KEY NOTE 5.
 - REMOVE EXISTING 125 AMP, 3-POLE BREAKER AND PROVIDE NEW 150 AMP, 3-POLE CIRCUIT BREAKER TO SERVE NEW TOSHIBA CT. NEW BREAKER SHALL MATCH EXISTING FOR TYPE AND A.I.C. RATING.
 - ELECTRICAL CONTRACTOR SHALL BEAR THE RESPONSIBILITY TO VERIFY EXISTING SWITCHGEAR AND THE ABILITY TO ADD NEW BREAKER AS SHOWN. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER, PRIOR TO BID, IF BREAKER CANNOT BE ADDED TO SWITCHGEAR.
 - 4 #2/0, 1 #2/0 E.G. IN 2" CONDUIT (APPROX. 150'-0"). FIELD VERIFY EXISTING CONDITIONS AND REUSE CONDUIT ONLY IF EXISTING SIZE IS AS SPECIFIED, AS A MINIMUM.
 - 150 AMP, 3-POLE, 480V, ENCLOSED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE. BREAKER SHALL BE 65K A.I.C. RATED.
 - EMERGENCY OFF SHUNT-TRIP PUSH-BUTTON FOR 'PDC' FEEDER BREAKER.
 - 2 #12, 1 #12 E.G. IN 1/2" CONDUIT FOR SHUNT TRIP OPERATION.
 - 150 AMP, 3-POLE, 480V, ENCLOSED CIRCUIT BREAKER WITH SHUNT-TRIP MECHANISM (VERIFY VOLTAGE WITH TOSHIBA) IN NEMA 1 ENCLOSURE. BREAKER SHALL BE 65K A.I.C. RATED.
 - 4 #1/0, 1 #1/0 E.G. IN 2" CONDUIT.
 - TOSHIBA UPS AND BATTERY CABINET. REFER TO SHEET E-4.1 FOR INTERCONNECTION REQUIREMENTS AND PROVIDE ACCORDINGLY.
 - EXISTING 125 AMP 277/480V, 3-PHASE PANEL FEEDER TO REMAIN.

LOAD SUMMARY FOR PANEL 'MDP'

NEW LOADS:	192.4 KVA
EXISTING LOADS REMOVED:	(98.2) KVA
TOTAL:	94.2 KVA
AT 277/480V, 3-PHASE:	113.4 AMPS

SUMMARY NOTE:

CONTRACTOR SHALL WORK WITH HOSPITAL TO VERIFY SUFFICIENT CAPACITY AT EXISTING PANEL 'MDP' TO SUPPORT NEW LOADS AS INDICATED ON THE DRAWINGS.

PANEL SCHEDULE INDEX

LPI	MPCT
-----	------

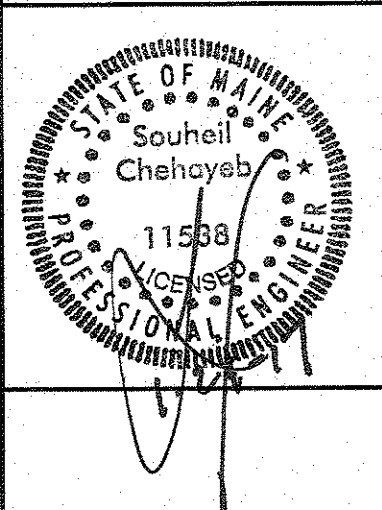
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DVA PROJECT 402-10-542
CT SUITE ROOM 104 RENOVATION
BUILDING 200, 1st FLOOR
VA MAINE HEALTHCARE SYSTEM
1 VA CENTER
AUGUSTA, MAINE 04330

REVISIONS

RECORD DOCUMENTS
JANUARY 13, 2017

ISSUED FOR: _____ DATE: _____

REVIEW: 06/16/16

BIDDING: _____

PERMIT: _____

CONSTRUCTION: 07/12/16

SHEET TITLE
POWER RISER DIAGRAM AND SCHEDULES

DATE
JUNE 16, 2016

PROJECT NO.
0316-02

SHEET NO.

E-6

SPECIFICATIONS - ELECTRICAL

DIVISION 26 - ELECTRICAL

SECTION 260500 COMMON WORK

1. GENERAL

1.01 The following are minimum requirements and shall govern, except that building laws and/or drawings shall govern when their requirements are in excess thereof.

2. DRAWINGS AND SPECIFICATIONS

2.01 The architectural, mechanical, electrical and equipment drawings and specifications are hereby incorporated into and become a part of this Division. This Contractor shall examine all such drawings and specifications and become thoroughly familiar with provisions contained herein and the submission of his bid shall be construed as indicating such knowledge.

2.02 Electrical drawings are diagrammatic and are intended to show the approximate locations of equipment and piping. Dimensions given on the plans shall be verified in the field. Drawings may not be scaled to obtain exact dimensions.

2.03 The exact locations of apparatus, fixtures, equipment and conduits shall be ascertained from the Owner's representative in the field and the work shall be laid out accordingly. Should the Contractor fail to ascertain such locations, the work shall be changed at his own expense when so ordered by the Owner. The Owner reserves the right to make minor changes in the location of conduit and equipment up to the time of installation, without additional cost.

2.04 The electrical drawings and specifications are intended to supplement each other and any material or labor called for in one shall be furnished and supplied even though not specifically mentioned in both. Labor and/or materials neither shown nor specified, but necessary for the completion and proper functioning of the system, shall be provided by this Contractor.

2.05 The work required under these specifications includes all labor, materials, equipment and services necessary to provide lighting and power systems, service entrances, motor controls and connections, branch circuiting, feeders, panels, fixtures, wiring devices, and other items shown on the plans or specified.

2.06 When the specification of an item is not identified with a particular area, the item shall pertain to all areas.

2.07 This Contractor shall furnish such labor and materials as hereinafter specified and as required to complete all electrical connections in accordance with the manufacturer's requirements for all mechanical equipment and Owner's equipment as shown and/or specified.

3. EXAMINATION OF SITE

3.01 Contractor shall visit the site and familiarize himself with existing conditions and satisfy himself as to the nature and scope of work.

4. DEFINITIONS

4.01 "Install" shall mean to place, fix in position, secure, anchor, wire, etc., including necessary appurtenances and labor so that equipment or installation will function as specified and intended.

4.02 "Furnish" shall mean to purchase and supply equipment or components.

4.03 "Provide" shall mean to "furnish and install".

4.04 "Or approved equal" shall mean equal in type, design, quality, style, color, etc., as determined by the Engineer/Architect.

4.05 "Contractor" shall mean the Electrical Contractor where used on the Electrical Contract Documents unless specifically stated otherwise.

5. INTERFERENCES

5.01 It shall be the duty of this Contractor to report any interferences between his work and that of any other Contractor to the Owner or Architect as soon as they are discovered. The Owner or Architect will determine which equipment shall be relocated regardless of which was first installed, and his decision shall be final.

6. MATERIALS AND WORKMANSHIP

6.01 All work shall be installed in a practical and workmanlike manner by competent workmen, skilled in their branch of the trade.

6.02 Unless otherwise specified or indicated on the drawings, all materials shall be new and free from defects.

6.03 All material and equipment shall meet or exceed standards specified by UL, NEMA, ANSI and IEEE wherever such standards have been established.

6.04 From time-to-time during the operation and at the completion thereof, this Contractor shall remove all debris and excess materials caused by his work and he shall leave the area of the operation broom clean.

6.05 All electrical equipment and material shall bear the Underwriter's Laboratories label.

7. SUPPORTS

7.01 This Contractor shall furnish and install all angle iron, channel iron, rods, supports or hangers required to install or mount panelboards, switchboards, or any electrical equipment called for on the plans, in these specifications, or as necessary to mount any piece of electrical equipment, material, or device. Conduit, fixtures, or any electrical devices shall not be supported from steel deck, bridging, ceiling, or ceiling support wires.

8. TEMPORARY CONSTRUCTION POWER AND LIGHTING

8.01 Sufficient temporary power, during construction, for tools and portable equipment shall be provided by the Electrical Contractor. Contractor shall coordinate with Owner.

9. CODES, LAWS, PERMITS AND INSPECTIONS

9.01 Install all work in full accordance with codes, rules and regulations of municipal, city, county, state and public utility, and all other authorities having jurisdiction over the premises. This shall include all requirements of the local Building Code, regulations of the State Department of Industrial Relations, OSHA, ADA (Americans with Disabilities Act), and the requirements of the National Electric Code, as interpreted by the Local Inspection Division. All these codes, rules, and regulations are hereby incorporated into this specification.

9.02 Comply with specification requirements which are in excess of code requirements and not in conflict with same.

9.03 The Contractor shall secure all permits and certificates of inspection incidental to the work, required by foregoing authorities. All such certificates shall be delivered to the Owner in duplicate, before final payment on contract will be allowed. The Contractor shall pay all fees, charges and other expenses in connection therewith.

10. FIELD CHANGES (AS BUILT DRAWINGS)

10.01 Keep one (1) set of working drawings and shop drawings at the job site for sole purpose of recording all changes made during construction. After completion of the work and before requesting final payment, the above mentioned drawings shall be delivered to the Owner.

11. LABELING AND NAMEPLATES

11.01 Permanently label switchboards, panelboards, time switches and safety switches indicating equipment or panels and areas which they serve.

11.02 Lighting and appliance panels shall be labeled as shown on drawings.

11.03 Electrical Contractor shall furnish and install identification for pull or junction boxes furnished by him.

11.04 Identify as to use on face of equipment by means of laminated black and white phenolic label with 3/8" letters engraved through black to white.

11.05 Materials

A. Nameplates: Engraved three-layer laminated plastic, white letters on a black background.

11.06 Installation

A. Degrease and clean surfaces to receive nameplates and tape labels.

B. Install nameplates and tape labels parallel to equipment lines.

C. Secure nameplates to equipment fronts using screws, rivets or adhesive. Secure nameplates to inside face of recessed panelboard doors in finished locations.

D. Mark every junction or pull box cover plates with the circuit number(s) of all wires contained therein.

11.07 Wire Identification:

A. Provide wire markers on each conductor at terminal strips and at final line and load connections. Identify with branch circuit or feeder number of power and lighting circuits, and with control wire number as indicated on equipment manufacturer's shop drawings for control wiring or as drawings indicate.

B. All wires shall be color coded. Color code branch circuit wiring as follows:

	120/208V	277/480V
Phase A	Black	Brown
Phase B	Red	Orange
Phase C	Blue	Yellow
Neutral	White	Gray
Ground	Green	Green
2. Switched Wires:	Other than colors listed above	
3. Travelers Between 3-Way Switches:	Purple	
4. Isolated Ground:	Green with Yellow Stripe	

12. GUARANTEE

12.01 In addition to guarantees of equipment by manufacturer of same, this Contractor shall also guarantee equipment provided by him and shall be held for a period of one (1) year to make good any defects in material and workmanship occurring during this period, at his sole expense. This one year period shall start from the date of final occupancy by Owner.

13. SCOPE OF WORK

13.01 Furnish all labor and material necessary to complete the electrical work shown on the drawings, specified herein or required to complete the construction of the building as shown.

13.02 The listing herein of article or material, operation or method, required that the Contractor shall provide and install, unless noted to be supplied by others, each item listed of quality or subject to qualification noted. Each operation shall be performed according to standard practice, manufacturer's instructions and conditions stated, providing, therefore, all necessary labor, equipment, and incidentals.

13.03 The electrical Contractor shall schedule his work to conform to the progress of the other trades and Contractors and employed on this project.

13.04 The electrical work shall include but is not limited to the following:

A. Complete power and lighting distribution systems including panels and light fixtures, as shown on plans.

B. Temporary electric service as required for construction.

C. Testing of all electrical equipment.

14. MANDATORY SHOP DRAWINGS

14.01 Submit a minimum of five (5) copies of all required electrical shop drawings.

14.02 Shop Drawings shall be submitted for:

1. Panels, Switchgear
2. All Lighting Fixtures and/or lamps
3. All Wiring Devices and Cover Plates

END OF SECTION 260500

SECTION 260519/260533/262126 CONDUCTORS/RACEWAYS/DEVICES

1. CONDUIT

1.01 All wire shall be run in accordance with the applicable codes in corrosion resistant, rigid, threaded, metal conduit or electrical metallic tubing (E.M.T.), unless otherwise specifically stated herein.

A. Conduit below floor slab, exposed to weather, or underground shall be rigid, threaded, galvanized, heavy wall type.

B. Carlon PVC, Type 40 heavy wall conduit may be used underground below floor slab or pavement in lieu of rigid, threaded, galvanized conduit except where prohibited in NEC 51T. PVC schedule 40 conduit shall not be run in or above finished areas. PVC conduit shall terminate below floor slab with rigid, threaded metal conduit adapter. Conduit above slab shall be metal.

C. A ground conductor shall be supplied in all conduits and raceways. The ground conductor shall be sized per the N.E.C. or as shown on drawing, whichever is larger.

1.02 Conduit and E.M.T. shall be delivered to the building in 10-foot lengths and each length shall have the Underwriter's Laboratories label.

1.03 Conduit and E.M.T. shall be run concealed in all finished areas of the building.

1.04 E.M.T. connectors and couplers shall be compression type made of steel as manufactured by Thomas & Betts, Steel City, or Appleton. Bends and offsets shall be made with a hickey or power bender without kinking or destroying the smooth bore of the conduit. Paralleled conduits shall run straight and true with offsets uniform and symmetrical. Conduit terminals at boxes and cabinets shall be rigidly secured with locknuts and bushings as required by the National Electrical Code and local electrical code. Insulated bushings shall be used on all conduit 1-1/4" trade size and larger.

1.05 Conduit shall be securely fastened in place at no more than 8-foot centers, and hangers, supports or fastenings shall shall be provided at each conduit, elbow and at the end of each straight run, terminating at a box or cabinet. Conduit shall not be suspended from the ceiling or ceiling suspension wires.

1.06 Horizontal and vertical conduit runs shall be supported by one-hole malleable straps or other approved metal device with suitable bolts, expansion shield or beam clamp for mounting to building structure or special brackets. Conduit shall be supported from structural steel or joist and independent of other piping. Do not support conduit from metal roof deck or any other support device of another trade.

1.07 Armored cable (BX) or nonmetallic sheathed cable (Romex) shall not be used. No aluminum conduit shall be used.

1.08 Only short runs of flexible metal conduit not over 6' in length and having a ground conductor, shall be used for terminal connections to motors and also for electrical equipment where it is not practical to make final connection with rigid conduit. Flexible conduit exposed to weather shall be sealed.

1.09 Exposed conduit and conduit in ceiling space shall be run parallel to the building structure.

1.10 Conduit system shall conform to all requirements of the National Electrical Code (N.E.C./N.F.P.A.-70) and local codes.

2. CONDUCTORS

2.01 Sizes of conductors for feeders are given on the drawings and no wire smaller than #12 gauge shall be used for branch lighting or power circuits. All wiring shall have the U.L. label and be of 98% conductivity copper. Aluminum wire or aluminum cable is not acceptable.

A. The gauge of all wire shall be in accordance with B&S standard.

2.02 All wire and cable for branch lighting or small power circuits shall have NEC Type "THHN" or "THWN" 600 volt insulation.

2.03 Wire and cable above #12 gauge shall be stranded Type "THWN" insulated for 600 volts

2.04 For special conditions, as provided by the National Electrical Code, Type "RHH, A.V.A." or other required insulation shall be used.

2.05 Where lighting fixtures are used as raceways, 90 degree C. minimum insulated wire shall be used.

3. GROUNDING

3.01 This Contractor shall provide, install and connect a complete system of grounding for all equipment and structures. A good mechanical and electrical connection shall be made with approved grounding connectors.

3.02 Electrical system and electrical grounds shall comply with the N.E.C. as well as all local and state codes and regulations.

3.03 Panels, conduit systems, motor frames, lighting fixtures and other equipment that are part of this installation shall be securely grounded both mechanically and electrically in accordance with all codes.

3.04 A ground conductor shall be supplied in ALL conduit. It shall be an insulated, stranded, annealed copper conductor.

4. TOGGLE SWITCHES AND RECEPTACLES

4.01 All general purpose switches and receptacles color shall be as described in Electrical Requirements - Division 26 on sheet E-1.

4.02 Acceptable device manufacturers are Leviton, Arrow Hart, Hubbell, or Pass & Seymour.

4.03 Refer to Electrical Requirements on Sheet E-1 for specification of Switches and receptacles.

5. WALL PLATES

5.01 Unless otherwise noted, all plates for wall switches, receptacles and telephone outlets shall be as specified in Construction Documents.

5.02 All plates shall have full contact with the wall and boxes. Edges shall be parallel to the finished walls and ceilings.

6. OUTLETS

6.01 Locations of outlets are shown approximately on the drawings. Contractor shall refer to the shop drawings of the manufacturer of the equipment for the exact location of outlets for fixtures, motors, heaters and their respective control devices. Approximate locations of light fixtures are shown on the drawings.

6.02 Outlet boxes for concealed work shall be pressed steel boxes, galvanized and not less than #12 gauge, except floor boxes which shall be cast iron. Each ceiling outlet designated for a lighting fixture shall have a fixture support secured in place with nuts and bolts. Ceiling boxes shall be four inches (4") round and octagonal with lugs and screws for back plates. Wall outlets shall be four inches (4") square by 1-1/2" deep, single or double cover, except gang boxes of similar depth shall be used at locations requiring more than 2-gang.

6.03 Outlets on the exterior of the building shall be weatherproof type.

6.04 All outlets shall be firmly secured in place. Outlets in finished areas shall be flush with finished ceiling or walls.

7. BRANCH CIRCUIT WIRING

7.01 The Electrical Contractor shall provide and connect a complete system of panels, conduits, wire fittings, boxes, supports and all other miscellaneous materials required for equipment as indicated on the plans and ready for operation by the Owner.

7.02 All circuits shall be color coded.

END OF SECTION 260519/260533/262126

SECTION 262416 PANELBOARDS

1. LIGHTING AND APPLIANCE PANELBOARDS

1.01 Panels shall be copper bus and shall have 20 amp, single, double, or three pole circuit breakers (capable of interrupting available short circuit current) as required in each branch circuit. Where breakers larger than 20 amperes are required, the sizes are noted on the drawings. Breakers shall be bolt-on, quick-make, quick-break and capable of interchanging 1, 2 or 3-pole units. Multiple units shall be common trip. Provide spare breakers in each panel as shown. All lugs shall be U.L. approved CULAL type.

1.02 Electrical Contractor shall arrange circuits as near as possible to circuit numbers on the drawings. At finish of job, Electrical Contractor shall take current reading checks of respective phases. Contractor shall rearrange some circuit connections to balance the load across all phases as closely as possible.

1.03 Panels shall be mounted as indicated on the drawings. The fronts shall be made of code thickness sheet metal having door cutouts, leaving forms of proper width around the door. Doors shall be provided with an approved lock and shall be keyed alike. Provide new door fronts and keyed doors as required.

1.04 Breakers used for lighting circuits shall be switch duty style.

2. GENERAL (FOR ALL PANELS AND PANELBOARDS)

2.01 Metal framed card holders with typewritten circuit directory must be provided for each panel. Directory shall be clear and designation shall match identification on equipment. Panelboards (switchboard, distribution, power panels and lighting panels) shall be identified by a label on the switch and/or panel door. Provide engraved laminated phenolic nameplates with 3/8" letters engraved through black to white.

2.02 All panels, safety switches, starters and in general, all equipment requiring lugs shall be equipped with solderless type U.L. approved lugs.

2.03 Provide all necessary unistrut, channel, backing and supports to mount switchboard and panelboards securely in place.

END OF SECTION 262416

SECTION 265100 LIGHTING

1. LIGHTING FIXTURES

1.01 All fixtures shall be as shown on Fixture Schedules.

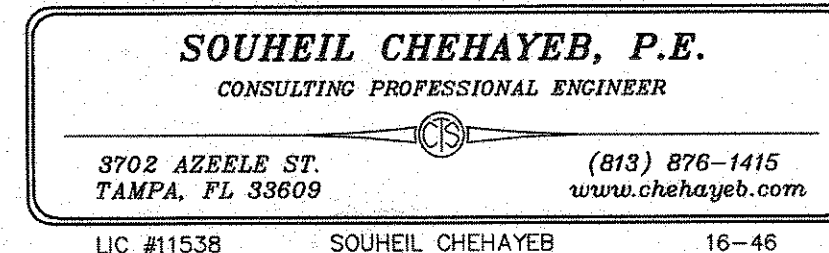
1.02 Unless otherwise indicated, all lighting fixtures shall be furnished and installed by Electrical Contractor as indicated on the Lighting Fixture Schedules, including lamps.

1.03 All fixtures shall bear the Underwriter's Laboratories label and shall be installed according to manufacturer's instruction.

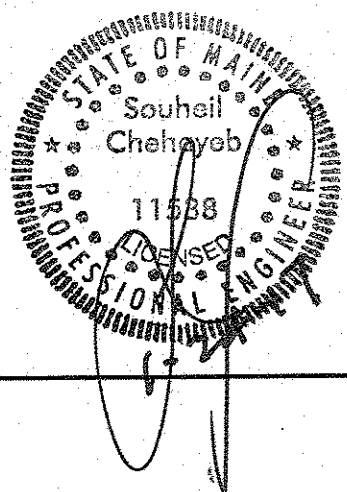
1.04 All fixtures shall be new and undamaged.

1.05 This Contractor shall provide and install all necessary support media for all lighting fixtures including structural steel, angle, rods, etc. In general, fixtures shall be supported in a manner acceptable to the local inspection authorities. All fixtures shall be firmly supported from beams or joists, and not dependent on suspended ceiling system for support. All fixtures installed in the ceiling grid shall be supported from the building structure (less than 10 lbs - one #12 gauge hangerwire; 10 lbs or more - two #12 gauge hangerwires attached at opposing corners of the fixture).

END OF SECTION 265100



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DVA PROJECT 402-10-542
OT SUITE ROOM 104 RENOVATION
BUILDING 200, 1st FLOOR
VA MAINE HEALTHCARE SYSTEM
1 VA CENTER
AUGUSTA, MAINE 04330

REVISIONS
RECORD DOCUMENTS
JANUARY 13, 2017

ISSUED FOR: DATE:
☐ ☐
☐ REVIEW 06/16/16
☐ BIDDING
☐ PERMIT
☒ CONSTRUCTION 07/12/16

SHEET TITLE
ELECTRICAL
SPECIFICATIONS

DATE
JUNE 16, 2016
PROJECT NO.
0316-02
SHEET NO.

E-7

MAINE LICENSE NO. AEC5760