THE MEDICAL CENTER OF AURORA

CT / X-RAY INSTALLATION

1501 S. POTOMAC ST., AURORA, CO 80012

City of Aurora Building Division
Project: *New X-ray and remodel for CT*
Address: *REV-1501 S POTOMAC ST*
Occupancy Group: *I-2*
Construction Type: *I-A*
RSN: *1063633*
Permit: *15-1024782*

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Nov 17, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *15-1024782*

REVISION TO PERMIT # 15-976795

PROJECT TEAM

OWNER:
MEDICAL CENTER OF AURORA
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AURORA, CO 80012
303.873.4895

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BPA
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spierce@bpasecurities.com

SIGNAGE

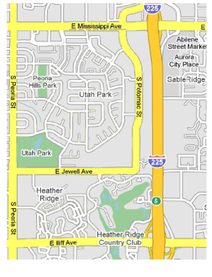
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GENERAL NOTES

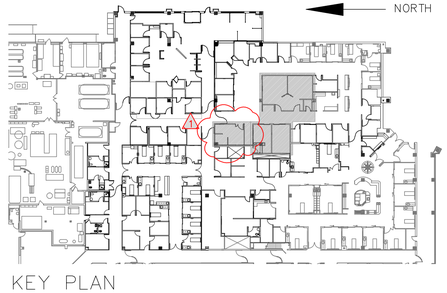
1. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL LOCAL LAWS, ORDINANCES, RULES, REGULATIONS AND CODES OF THE GOVERNMENT AUTHORITIES HAVING JURISDICTION.
2. DIMENSIONS ARE TO FINISHED FACE OF GYPSUM WALL BOARD OR FACE OF EXISTING BASE BUILDING CONSTRUCTION, UNLESS NOTED OTHERWISE.
3. VERIFY ALL ROUGH-IN DIMENSIONS AND ELECTRICAL REQUIREMENTS FOR EQUIPMENT. COORDINATE OUTLET PLACEMENT WITH CASEWORK.
4. CONTRACTOR SHALL NOTIFY OWNER BEFORE COMMENCING WORK ON ANY ITEMS NOT CLEARLY DEFINED.
5. CHANGES OR DEVIATIONS FROM THE PLANS MADE WITHOUT THE CONSENT OF OWNER ARE UNAUTHORIZED.
6. G.C. TO PROVIDE SEALANT AROUND ALL PLUMBING FIXTURES, PIPING AND EQUIPMENT ABUTTING OR PENETRATING A WALL OR PARTITION. COLOR TO MATCH.
7. INSTALL FIRE-SAFING INSULATION, PUTTY OR FIRE-RATED INTUMESCENT-TYPE SEALANT (INCLUDING PIPE-SLEEVES, DAMMING BOARDS AND ACCESSORIES) AROUND ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS, FLOORS AND WALLS PER MANUFACTURER'S TESTED INSTALLATION FOR APPLICATION AND REQUIRED RATING.
8. ALL ELECTRICAL AND MECHANICAL DEVICES OR APPLIANCES INSTALLED ON THIS PROJECT SHALL BE UL LISTED.
9. WHERE REMODELING IS TO OCCUR, THE CONTRACTOR SHALL PRESENT A WORKABLE PHASING PLAN TO THE OWNER PRIOR TO COMMENCEMENT OF WORK WITHIN THE AFFECTED AREA. CONTRACTOR SHALL ALSO KEEP THE OWNER APPRISED OF ANY VARIATIONS IN PHASING PLAN THAT WILL AFFECT THE OPERATION OF THE OWNER'S BUSINESS.
10. CONTRACTOR SHALL PRESENT A WORKABLE PLAN TO MAINTAIN SECURITY AND SAFETY OF THE OWNER'S BUSINESS FOR AREAS AFFECTED BY CONSTRUCTION DURING THE ENTIRE PHASE OF CONSTRUCTION.
11. CONTRACTOR SHALL MINIMIZE DISRUPTION BY CONSTRUCTION WORK TO THE ONGOING BUSINESSES AND TRAFFIC IN THE VICINITY. CONSTRUCTION AREA SHALL BE ENCLOSED TO KEEP OTHER AREAS FREE OF DUST, DEBRIS & NOISE.
12. EMPLOYEES OR SUBCONTRACTORS OF THE GENERAL CONTRACTOR SHALL REFRAIN FROM PROFANE OR OFFENSIVE LANGUAGE WHILE ON THE PROJECT SITE AND SHALL REFRAIN FROM USING LOUD RADIOS OR OTHER MUSIC PLAYERS WHILE OWNERS AND/OR DESIGN TEAM IS ONSITE.
13. GENERAL CONTRACTOR SHALL COORDINATE APPROPRIATE PARKING ACCOMMODATIONS FOR EMPLOYEE AND SUBCONTRACTOR VEHICLES WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
14. G.C. SHALL COORDINATE APPROPRIATE CONSTRUCTION STAGING AREAS AND TRASH REMOVAL. G.C. WILL BE RESPONSIBLE FOR OBTAINING A DUMPSTER AND TRASH PICKUP FROM JOB SITE ON A REGULAR BASIS.
15. SUBSTITUTIONS OF SPECIFIED PRODUCTS MAY NOT OCCUR UNLESS SPECIFICALLY NOTED ON DRAWINGS THAT "OR EQUAL" IS ACCEPTABLE. OWNER APPROVAL IS REQUIRED FOR ALL SUBSTITUTIONS CONSIDERED BY G.C. TO MEET "OR EQUAL" REQUIREMENTS PRIOR TO BID SUBMISSION/INSTALLATION.
16. APPROVAL OF SHOP DRAWINGS DOES NOT IMPLY APPROVAL OF A SUBSTITUTED COLOR, SIZE OR FUNCTION OF AN ITEM SPECIFIED ON THESE CONTRACT DOCUMENTS UNLESS ATTENTION IS SPECIFICALLY CALLED TO THE REVISION AND APPROVAL IS GIVEN.
17. G.C. SHALL KEEP TOILET FACILITIES ON SITE CLEAN AND USABLE.
18. NO PLUMBING CLEAN-OUTS SHALL EXTEND INTO ROOM MORE THAN IS MINIMALLY REQUIRED. NO PIPE SHALL BE EXPOSED AND THERE SHALL BE ESCUTCHEON PLATES AT ALL GYPSUM WALL BOARD PENETRATIONS.
19. ALL POWER/DATA OUTLETS, LIGHT SWITCHES & COVER PLATES TO BE CHANGED OUT TO WHITE WHERE NEEDED WITHIN THE SCOPE OF CONSTRUCTION.
20. GENERAL CONTRACTOR SHALL PROVIDE FIRE SPRINKLER DESIGN/BUILD AS PART OF SCOPE OF WORK. ALL SPRINKLER HEADS SHALL BE FLUSH MOUNTED CONCEALED STYLE TO MATCH HOSPITAL STANDARDS. SPRINKLER HEADS SHALL BE PLACED IN CENTER OF AFFECTED CEILING TILE.
21. STEEL FRAMING REQUIRED FOR ALL WALLS, SOFFITS & CASEWORK BACKING/SUPPORTS THROUGHOUT.
22. HOSPITAL WILL MANAGE THE LISTED VENDORS IN THEIR RESPECTIVE FIELDS AS NOTED ON THIS COVER SHEET. GENERAL CONTRACTOR TO NOT INCLUDE THEIR ASSOCIATED WORK IN THE SCOPE OF PROPOSAL.
23. GENERAL CONTRACTOR NEEDS TO BE FAMILIARIZED WITH EXISTING CONDITIONS TO PROPERLY ACCOUNT FOR THE NECESSARY COSTS ASSOCIATED WITH CONSTRUCTION.
24. NO CHANGE ORDERS WILL PERMITTED UNLESS OWNER INITIATED.
25. GENERAL CONTRACTOR TO REVIEW & INCLUDE ANY AND ALL NOTES AND LEGENDS CONTAINED WITHIN THE CONSTRUCTION DOCUMENT SET.

VICINITY MAP

MEDICAL CENTER OF
AURORA, SOUTH CAMPUS



POTOMAC ST.



KEY PLAN

DRAWING INDEX

ARCHITECTURAL

A0.0	COVER SHEET
A1.10	DEMOLITION PLAN
A1.11	CEILING DEMOLITION PLAN
A1.12	FLOOR / FINISHES / SCHEDULES
A1.13	CT ENLARGED PLAN
A1.14	X-RAY ENLARGED PLAN
A1.15	ENLARGED CT RCP
A1.16	ENLARGED X-RAY RCP
A1.40	ELEVATIONS
A1.50	SECTIONS
A1.51	PARTITION CROSS SECTIONS

SEMI-PRIVATE EXAM ROOM SEPARATION
ARCHITECTURAL SET

A2.10	DEMOLITION PLAN
A2.11	FLOOR PLAN / DIMENSION TAG / SCHEDULE
A2.12	CEILING DEMOLITION PLAN / RCP
A2.40	ELEVATIONS / SECTIONS

MEP ENGINEER SET

M-0.0	MECHANICAL LEGEND, GENERAL NOTES
M-1.0	MECHANICAL PLANS, DEMOLITION & NEW
M-2.0	MECHANICAL SPECIFICATIONS
P-0.0	PLUMBING LEGEND, GENERAL NOTES
P-1.0	PLUMBING PLANS, DEMOLITION & NEW
P-2.0	MED GAS PLANS, DEMOLITION & NEW
E-0.0	ELECTRICAL LEGEND & GENERAL NOTES
E-1.0	ELECTRICAL PLANS, DEMOLITION & NEW
E-2.0	ELECTRICAL DETAILS
E-3.0	ELECTRICAL SCHEDULES

MECHANICAL, PLUMBING, ELECTRICAL

M-0.0	MECHANICAL LEGEND, GENERAL NOTES
M-1.0	HVAC DEMOLITION PLAN
M-1.1	HVAC PIPING DEMOLITION PLAN
M-2.0	HVAC PLAN
M-2.1	HVAC PIPING PLAN
M-3.0	MECHANICAL DETAILS
M-4.0	MECHANICAL SCHEDULES & CONTROLS
MP-0.0	MECHANICAL & PLUMBING SPECIFICATIONS
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P-1.0	UNDERFLOOR PLUMBING DEMOLITION PLAN
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P-1.2	MED GAS DEMOLITION PLAN
P-2.0	UNDERFLOOR PLUMBING PLAN
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P-2.2	MED GAS PLAN
P-3.0	PLUMBING SCHEDULES & DETAILS
E-0.0	ELECTRICAL LEGEND & GENERAL NOTES
E-1.0	POWER & SPECIAL SYSTEMS DEMO PLAN
E-1.1	LIGHTING DEMOLITION PLAN
E-2.0	POWER & SPECIAL SYSTEMS PLAN
E-2.1	LIGHTING PLAN
E-3.0	ELECTRICAL SCHEDULES
E-4.0	ONELINE/CURRENT CALCULATIONS
E-5.0	ELECTRICAL DETAILS

STRUCTURAL

S-1.0	X-RAY SUPPORT FRAMING

GENERAL ELECTRIC SITE SPECIFIC PLANS ATTACHED TO BACK OF DRAWING SET

CODE INFORMATION SUMMARY

PROJECT NAME: CT X-RAY INSTALLATION

PROJECT ADDRESS: 1501 S. POTOMAC ST.
AURORA, CO 80012

CONSTRUCTION TYPE: I-A

OCCUPANCY CLASSIFICATION: GROUP I-2 HOSPITAL

AFFECTED SQUARE FOOTAGE: 1,225 SF (ORIGINAL SCOPE) + 322 SF (ADDITIONAL AREA) = 1,547 SF (TOTAL)

OCCUPANT LOAD FACTOR: 240 SF/OCC (INPATIENT)

OCCUPANT LOAD: 1,547 SF/240 = 6 OCCUPANTS (EXISTING TO REMAIN UNCHANGED)

SPRINKLER SYSTEM: EXISTING TO REMAIN

APPLICABLE CODES: 2009 INTERNATIONAL BUILDING CODE (IBC)
2009 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2009 INTERNATIONAL MECHANICAL CODE (IMC)
2012 INTERNATIONAL PLUMBING CODE (IPC)
2009 INTERNATIONAL FIRE CODE (IFC)
2014 NATIONAL ELECTRICAL CODE (NEC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
CHAPTER 22 BUILDINGS & REGULATIONS: THE AURORA BUILDING & ZONING CODES
CHAPTER 66 FIRE PREVENTION & PROTECTION REGULATIONS: THE AURORA BUILDING & ZONING CODES & ICC/ANSI A117.1 - 2003

EXITS: 3 EXITS ON GROUND LEVEL
8' EXIT ACCESS CORRIDORS

FIRE PROTECTION: EXISTING BUILDING IS FULLY SPRINKLED. AREAS AFFECTED BY WORK UNDER THIS CONTRACT SHALL MAINTAIN FIRE PROTECTION SYSTEM AND BE FULLY SPRINKLED ON COMPLETION

CODE NOTES

A. EXISTING SHAFTS, STAIRS, AND ELEVATORS ARE TO REMAIN WITHOUT MODIFICATION.

B. FIRE ALARM AND SPRINKLER SYSTEMS WILL BE MODIFIED TO ACCOMMODATE NEW PLAN.

C. FIRE RATED WALL ASSEMBLIES TO BE MODIFIED OR CONSTRUCTED ACCORDING TO PLANS & PER AHJ CODE REQUIREMENTS.

DWG SHEET SIZE: 36" x 24"

The Medical Center of Aurora
Health ONE

ED RENOVATION

MEDICAL CENTER OF AURORA

1501 SOUTH POTOMAC STREET
AURORA, COLORADO 80012

TOM THOMPSON ARCHITECT
2510 SOUTH OSCEOLA STREET
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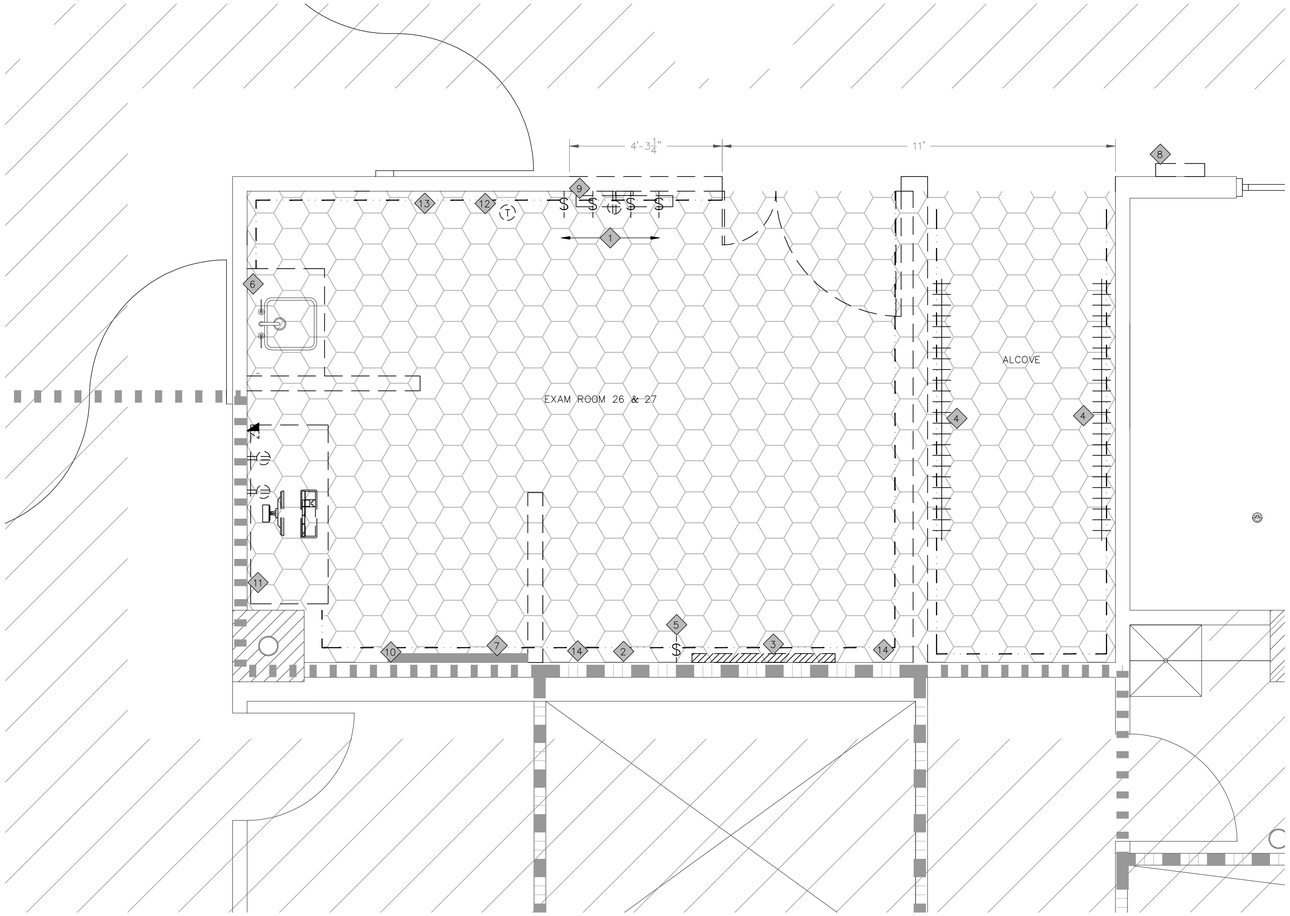
STATE OF COLORADO
TOM THOMPSON
305692
09.30.15
LICENSED ARCHITECT

PROJECT NO.: 14-04

DRAWN BY: TH BM
CHECKED BY: TT
SCALE:
DATE: 06/10/2015
ISSUED FOR: CONSTRUCTION
REVISIONS:
1 09/30/2015

SHEET TITLE:
COVER SHEET

SHEET NO.:
A-0



DEMOLITION LEGEND:	
	REMOVE WALL, CASEWORK, EQUIPMENT & FIXTURES AS INDICATED BY DASHED LINE
	EXISTING ELEMENT TO REMAIN
	REMOVE EXISTING FLOORING AS INDICATED BY HATCH PATTERN. PREP SURFACE FOR NEW SHEET VINYL FLOORING
	REMOVE & SALVAGE EXISTING DOOR, FRAME & HARDWARE FOR OWNER
	REMOVE & DISPOSE OF EXISTING WALL PROTECTION
	EXISTING POWER OUTLET; TERMINATE, SAFE-OFF AND/OR PREP FOR NEW LOCATION
	EXISTING DATA/PHONE; TERMINATE, SAFE-OFF AND/OR PREP FOR NEW LOCATION
T	EXISTING THERMOSTAT TO BE RELOCATED
S	EXISTING LIGHT SWITCH; TERMINATE, SAFE-OFF AND/OR PREP FOR NEW LOCATION
	EXISTING HEADWALL GASES, OUTLETS & WALL MOUNTED EQUIPMENT TO BE RELOCATED
	EXISTING PLUGMOLD W/ RECEPTACLES TO BE REMOVED, TERMINATE POWER CONNECTION
	EXISTING TV TO BE RELOCATED
	OUT OF SCOPE
	EXISTING 1 HR FIRE/SMOKE BARRIER TO REMAIN
	EXISTING 2 HR FIRE WALL TO REMAIN

KEY NOTES	
1	REMOVE, SAFE-OFF LIGHT SWITCHES FOR NEW LOCATIONS, RE: RCP / TERMINATE PWR OUTLET
2	REMOVE & SALVAGE EXISTING WALL CHANNEL FOR RELOCATION, SEE HEADWALL ELEVATION; PATCH & REFINISH WALL
3	REMOVE HEADWALL UNIT, PRESERVE CONNECTIONS, SALVAGE WALL ASSEMBLY FOR RELOCATION; RE: FLOOR PLAN. REPAIR/PATCH/PAINT WALL
4	REMOVE & SALVAGE EXISTING PLUG MOLDING STRIP FOR OWNER. SAFE OFF & TERMINATE ELECTRICAL CONNECTION
5	REMOVE & PRESERVE CONNECTION OF LIGHT SWITCH FOR RELOCATION TO OF NEW HEADWALL UNIT
6	REMOVE & DISPOSE OF BACK SPLASH & COUNTERTOP. EXISTING CASEWORK BASE CABINET & SINK TO REMAIN
7	EXISTING HEADWALL UNIT AND UTILITY CONNECTIONS TO REMAIN
8	DISCONNECT & RELOCATE EXISTING AIR PRESSURE MONITOR TO NEW ISOLATION ROOM 25; RE: FLOOR PLAN
9	REMOVE TV & WALL MOUNT, SALVAGE FOR OWNER FOR RELOCATION, TERMINATE & SAFE-OFF POWER, REMOVE POWER & CABLE OUTLET BOXES, PATCH & PAINT
10	REMOVE BLANK COVER PLATE ABOVE HEADWALL UNIT, PATCH & PAINT
11	REMOVE WALL HUNG FORM HOLDER UNIT, PATCH & PAINT
12	EXISTING TV POWER OUTLET, CABLE RECEPTACLE AND WALL MOUNT TO REMAIN FOR NEW PATIENT ROOM
13	REMOVE EXISTING BLANK COVER PLATES & DATA RECEPTACLE. PATCH FOR NEW ACROVYN WALL PROTECTION
14	EXISTING EMERGENCY POWER & DATA OUTLETS TO REMAIN FOR NEW PATIENT ROOM. REMOVE BLANK COVER PLATE & PATCH WALL FOR NEW ACROVYN WALL PROTECTION

DEMOLITION GENERAL NOTES	
A.	REMOVE ALL ANCILLARY WALL HUNG ITEMS U.O.N. / SALVAGE FOR OWNER OR RELOCATION.
B.	WHERE OUTLETS, MOUNTING BRACKETS, EQUIPMENT, ETC., HAVE BEEN REMOVED, PATCH WALL & SKIM AS REQUIRED FOR NEW LEVEL AND FINISH.
C.	COORDINATE WITH THE OWNER ANY ITEMS TO BE STORED AND/OR RELOCATED.
D.	EXIT EGRESS MUST BE MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT CONSTRUCTION.
E.	REPLACE OR REPAIR ANY EXISTING TO REMAIN FINISHES WHICH ARE DAMAGED DURING DEMOLITION (I.E. - CEILING GRID, CEILING TILE, WALL COVERING, FLOOR COVERINGS, ETC.)
F.	REMOVE ALL NON-FUNCTIONING, BLANK OUTLET COVER PLATES AND WALL BOXES. PATCH & PAINT WALL
G.	ALL WALLS IN SCOPE OF PROJECT TO BE PREPPED FOR NEW PAINT, SKIM COAT WALLS AS NEEDED.
H.	LIGHT SWITCHES, DATA & POWER OUTLETS TO REMAIN, CHANGE DEVICES TO WHITE

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Nov 17, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *15-1024782*

REVISION TO PERMIT # 15-976795

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NORTH

DEMOLITION PLAN
1/2" = 1'

DWG SHEET SIZE: 36" x 24"

The Medical Center of Aurora
Health ONE

DEMOLITION PLAN

MEDICAL CENTER OF AURORA

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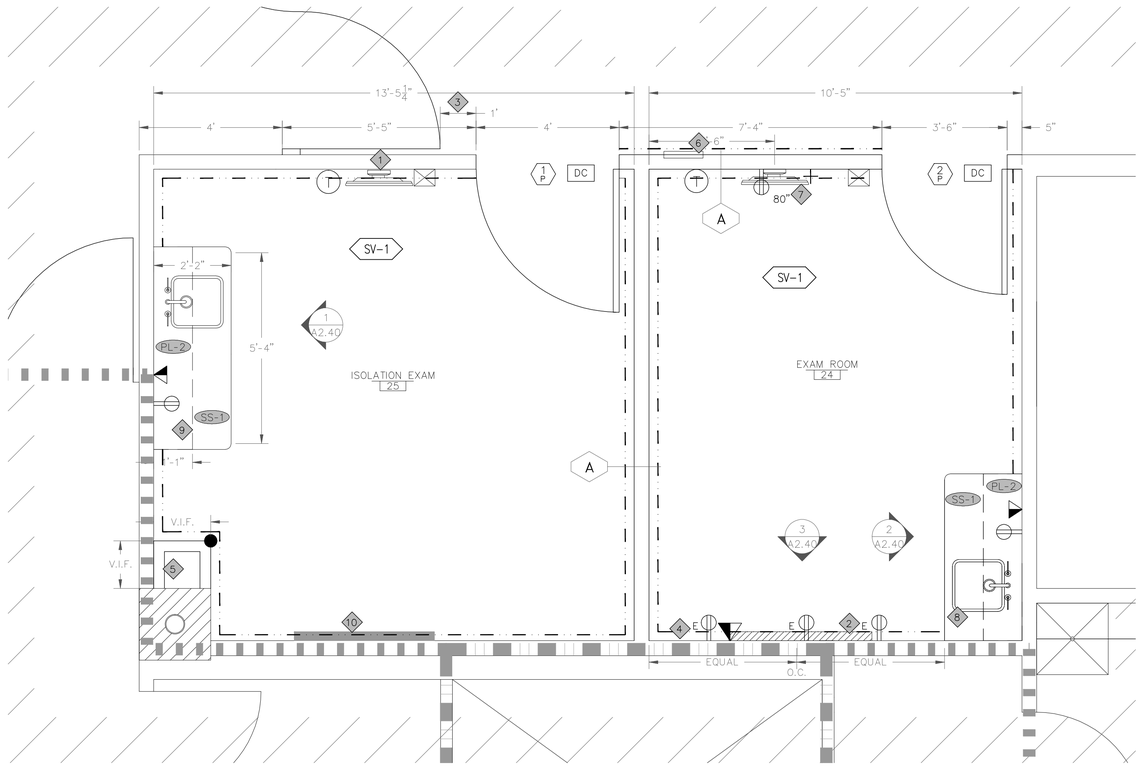
STATE OF COLORADO
TOM THOMPSON
305932
01.30.15
LICENSED ARCHITECT

PROJECT NO.: 14-04

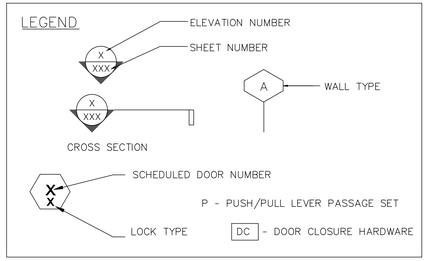
DRAWN BY: TH
CHECKED BY: TT
SCALE: 1/2" = 1'
DATE: 9/30/2015
ISSUED FOR: CONSTRUCTION
REVISIONS:

SHEET TITLE:
COVER SHEET

SHEET NO.:
A2.10



LEGEND



PATIENT CARE ITEMS (INCLUDING BUT NOT LIMITED TO)

1. SHARP CONTAINERS
2. PPE BOXES
3. PAPER TOWEL, SOAP, GEL DISPENSER
4. IV BAG HOOKS
5. TELEVISION
6. GLOVE DISPENSERS
7. DRY ERASE BOARD
8. BED BOARDS
9. EMERGENCY MEDICAL BOX
10. CLOCKS

LEGEND:	
+	NEW TELEVISION CABLE OUTLET. MOUNT @ 6'-6" A.F.F., O.C.
SV-1	SHEET VINYL, OPTIMA RAW IVORY W/6" COVED BASE.
	NEW ACROVYN WALL PROTECTION. INSTALL T.O. @ 54" A.F.F.
	FULL HEIGHT ACROVYN CORNER GUARD
	NEW OR RELOCATED POWER OUTLET (E-EMERGENCY POWER)
	NEW OR RELOCATED DATA/PHONE
T	NEW OR RELOCATED THERMOSTAT
$	NEW OR RELOCATED LIGHT SWITCH
XX-1	CASEWORK FINISHES SELECTIONS
	NEW OR RELOCATED HEADWALL GASES, OUTLETS & WALL PLATE
	NEW OR RELOCATED TV / MOUNT TV @ 7'-0" O.C.
	HAND GEL SANITIZER DISPENSER
	EXISTING 1 HR FIRE/SMOKE BARRIER TO REMAIN
	EXISTING 2 HR FIRE WALL TO REMAIN

FINISH SPECIFICATIONS

FLOORING

SV-1: SHEET VINYL TARKETT OPTIMA COLOR: 862 RAW IVORY W/6" COVED BASE W/ MATCHING WELDING ROD

B-2: 6" COVED BASE FINISHED WITH J-TRIM JOHNSONITE OPTIMA RAW IVORY

WALLS

P-1: (FIELD COLOR ROOM AREA) BENJAMIN MOORE ULTRASPEC, SEMI-GLOSS INTERIOR PAINT, 2 COATS ON WALLS. COLOR: 958 (OCEAN BEACH)

P-2: (DOOR FRAMES) BENJAMIN MOORE ULTRASPEC, SEMI-GLOSS INTERIOR PAINT, 2 COATS. COLOR: HC-45 (SHAKER BEIGE).

WP-1: 54" AFF (48" SHEETS) ACROVYN WALL PANELING -DESERT SAND

CASEWORK

SS-1: CORIAN, PRIVATE COLLECTION COLOR: CLAM SHELL

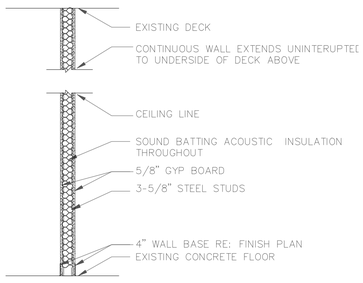
PL-2: APPLY TO ALL VERTICAL PANEL SURFACES. WILSONART LAMINATE COLOR: SHAKER CHERRY, 7935-07. USE 3MM EDGING TO MATCH.

* USE WHITE MELAMINE FOR ALL INTERIOR CABINETS AND DRAWER SURFACES.

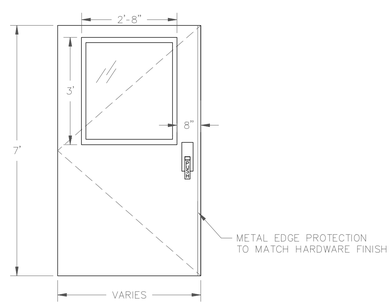
DOOR SCHEDULE									
DOOR NO.	DOOR SIZE			TYPE/LABEL	LOCK TYPE	HARDWARE	FRAME	FRAME DEPTH	REMARKS
	WIDTH	HEIGHT	DEPTH						
1	4'-0"	7'-0"	1-3/4"	A/NON RATED	P	SATIN NICKEL	L.H.-H.M.	4-7/8"	SHAKER CHERRY ACROVYN DOOR WITH STAINLESS STEEL EDGE. DOOR W/ SITE GLASS
2	3'-6"	7'-0"	1-3/4"	A/NON RATED	P	SATIN NICKEL	L.H.-H.M.	4-7/8"	SHAKER CHERRY ACROVYN DOOR WITH STAINLESS STEEL EDGE. DOOR W/ SITE GLASS

KEY NOTES

1	USE EXISTING TV CABLE & POWER OUTLETS FOR RELOCATED TV
2	INSTALL HEAD WALL PANEL & OUTLETS @ 54" A.F.F. ON CENTER
3	ALLOW MINIMUM OF 12" CLEARANCE FROM NEW DOOR OPENING TO DOOR SWING LIMIT OF EXISTING CORRIDOR DOUBLE DOORS
4	RELOCATED NURSE CALL & CODE BLUE
5	FURR-OUT COLUMN AS NEEDED TO ACCOMMODATE NEW 12x10, 400 CFM LOW AIR RETURN
6	INSTALL SALVAGED AIR PRESSURE MONITOR FOR ISOLATION ROOM 25
7	NEW TV & WALL MOUNT, OWNER SUPPLIED/CONTRACTOR INSTALLED
8	NEW PLUMBING W/ FIXTURE LOCATION, 19" STAINLESS STEEL SINK W/ GOOSENECK FAUCET & PADDLE HANDLES
9	CONFIRM EXISTING SOFFIT ABOVE NEW UPPER CABINETS HAS THE NECESSARY DEPTH FOR INSTALLATION
10	EXISTING HEADWALL UNIT & UTILITY CONNECTIONS TO REMAIN



WALL TYPE "A"
SCALE: 1/2" = 1'



DOOR TYPE "A"
SCALE: 1/2" = 1'

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GENERAL NOTES

A.	INSTALL NEW ACROVYN WALL PROTECTION ON ALL PATIENT ROOM WALLS.
B.	REPLACE NORMAL POWERED, EXISTING WALL OUTLET RECEPTACLES & SWITCHES AND THEIR ASSOCIATED COVER PLATES TO WHITE.
C.	SPECIFY SATIN NICKEL HARDWARE FOR CASEWORK.
D.	APPLY NEW PAINT TO ALL WALLS.
E.	PROVIDE 4" BACKSPLASH OF LIKE MATERIAL AT ALL LOCATIONS WHERE COUNTERS MEET WALLS.
F.	INSTALL FACTORY CUT ACROVYN 48" SHEETS AT 54" AFF (ALLOWING FOR 6" WALL BASE) HEIGHT EDGE WALL PANEL ON 3/8" BACKER BOARD - ADHESIVE ATTACHED (NOTE ADHESIVE TO MEET GS-36 LOW VOC REQUIREMENTS). COLOR: "DESERT SAND". WAINSCOTT TRIM @ TOP, ACROVYN TRIM @ BOTTOM AND SEAMS AND AT END PANELS.
G.	SUPPLY NEW CABINET LOCKS AT LOCATIONS WHERE SHOWN ON ELEVATIONS
H.	GENERAL CONTRACTOR TO ADD ALLOWANCE FOR MOUNTING PATIENT CARE ITEMS FOR ALL EXAM/TREATMENT ROOMS
I.	ALL CABINETS TO HAVE ADJUSTABLE SHELVING AS SHOWN IN ELEVATIONS/CROSS SECTIONS
J.	TIE NEW LOW AIR RETURN IN EXAM ROOM 25 TO THE EXISTING ROOF TOP PPE EXHAUST FAN, EF-97-S1308. TERMINATE DUCT CONNECTION TO EXISTING ISOLATION EXAM ROOM

NORTH

FLOOR/SCHEDULE/FINISHES PLAN
1/2" = 1'

DWG SHEET SIZE: 36" x 24"

The Medical Center of Aurora
Health ONE

EXAM ROOM SEPARATION

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1501 SOUTH POTOMAC STREET
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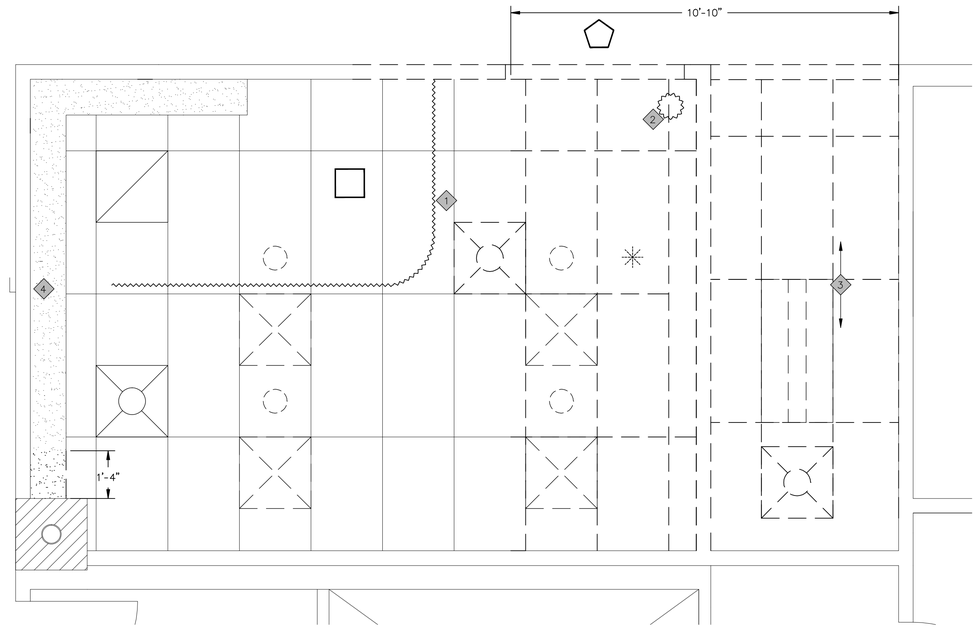
STATE OF COLORADO
TOM THOMPSON
305892
9-30-15
LICENSED ARCHITECT

PROJECT NO.: 14-04

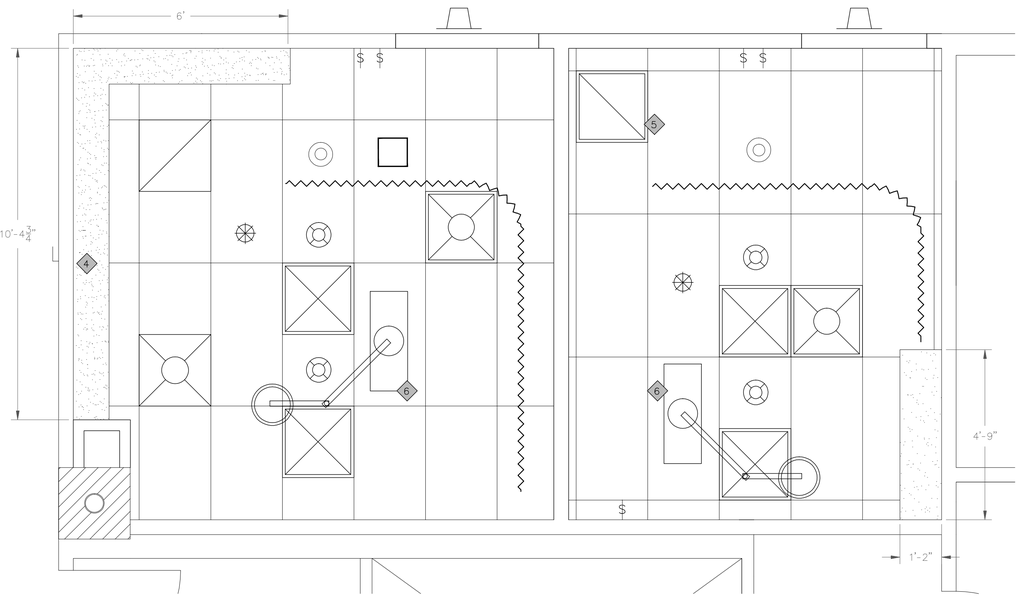
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CHECKED BY: TT
SCALE: 1/2" = 1'
DATE: 9/30/2015
ISSUED FOR: CONSTRUCTION
REVISIONS:

SHEET TITLE:
FLOOR/DIMENSION PLAN SCHEDULE

SHEET NO.:
A2.11



CEILING DEMOLITION PLAN
1/2" = 1'



REFLECTED CEILING PLAN
1/2" = 1'

DEMOLITION LEGEND:	
	EXISTING LIGHT FIXTURE TO BE REMOVED & SALVAGED FOR RELOCATION
	EXISTING 2' X 2' SUPPLY DIFFUSER TO BE REMOVED & SALVAGED FOR RELOCATION
	EXISTING 2' X 2' LIGHT FIXTURE TO REMAIN
	EXISTING 2' X 2' RETURN AIR REGISTER TO REMAIN
	EXISTING 2' X 2' SUPPLY DIFFUSER TO REMAIN
	EXISTING 2' X 4' LIGHT FIXTURE TO BE REMOVED & SALVAGED FOR OWNER
	CEILING MOUNTED SECURITY CAMERA
	EXISTING CAN LIGHT FIXTURE TO BE REMOVED & SALVAGED FOR RELOCATION
	EXISTING CEILING MOUNTED NURSE CALL LIGHT TO BE REMOVED & SALVAGED FOR RELOCATION
	EXISTING SPRINKLER HEAD TO BE RELOCATED AND/OR TERMINATED
	EXISTING SPRINKLER HEAD TO REMAIN
	EXISTING SMOKE DETECTOR TO REMAIN
	EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM TO REMAIN. REMOVE & DISPOSE OF ALL EXISTING CEILING TILE WITHIN THE PROJECT SCOPE
	EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM TO BE REMOVED

CEILING LEGEND:	
	CEILING MOUNTED, OVERHEAD EXAM LIGHT - HOSPITAL SUPPLIED FIXTURES
	NEW RECESSED, DIMMABLE CAN DOWNLIGHT
$	NEW LIGHT SWITCH/DIMMER SWITCH LOCATIONS.
	NEW OR RELOCATED CEILING MOUNTED EXECUTONE NURSE CALL DOME LIGHT.
	NEW OR RELOCATED SMOKE DETECTOR
	SPRINKLER HEADS
	SUSPENDED ACOUSTICAL CEILING SYSTEM. NEW SYSTEM ONLY REQUIRED WHERE CEILING IS AFFECTED BY NEW CONSTRUCTION.
	GYPSUM BOARD CEILING OR SOFFIT TO TOP OF CABINET (OR AS NOTED) RE: ELEVATIONS.
	NEW OR RELOCATED AIR SUPPLY REGISTER
	NEW OR RELOCATED RETURN AIR REGISTER
	NEW 2' X 2' LIGHT FIXTURE, PHILLIPS DAY-BRITE SOFTRACE
	CONTRACTOR INSTALLED PRIVACY CURTAIN TRACK

KEY NOTES	
1	REMOVE & SALVAGE CURTAIN & CEILING TRACK FOR RELOCATION; RE: RCP
2	HOSPITAL PROVIDED VENDOR TO REMOVE, TERMINATE & SALVAGE FOR OWNER EXISTING CEILING MOUNTED SECURITY CAMERA
3	RAISE EXISTING CEILING @ 8'-0" A.F.F. TO MATCH NEW CEILING IN PATIENT ROOM EXPANSION
4	EXISTING SOFFIT TO REMAIN
5	INSTALL NEW RETURN REGISTER
6	INSTALL NEW CEILING MOUNTED EXAM LIGHT SALVAGED FROM OWNER STOCK

GENERAL NOTES	
A.	CONTRACTOR TO PROVIDE LICENSED FIRE ALARM/FIRE SPRINKLER VENDOR FOR REQUIRED RELOCATION AND INSTALLATION OF NEW DEVICES
B.	WHERE POSSIBLE, PRESERVE EXISTING SMOKE DETECTORS & STROBE UNITS AND REINSTALL AT NEAREST CONVENIENT LOCATION.
C.	ACCOUNT FOR NEW THERMOSTAT LOCATIONS & ADJUST VAVs AND/OR DUCT FEEDS AS NECESSARY.

REVISION TO
PERMIT # 15-976795

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Nov 17, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *15-1024782*

DWG SHEET SIZE: 36" x 24"

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STATE OF COLORADO
TOM THOMPSON
305692
9-30-15
LICENSED ARCHITECT

PROJECT NO.: 14-04

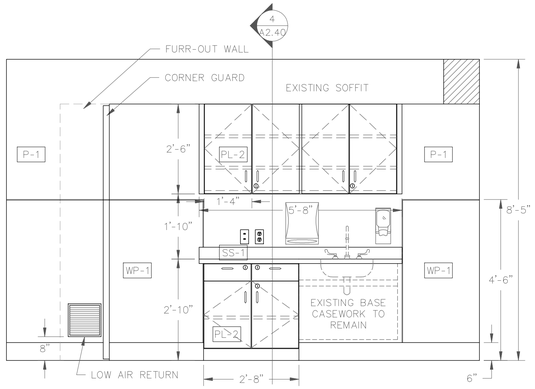
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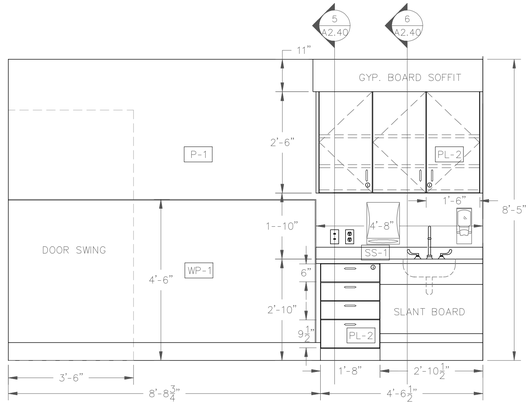
CEILING DEMO PLAN
REFLECTED CEILING PLAN

SHEET NO.:

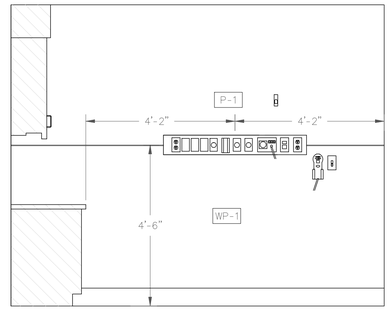
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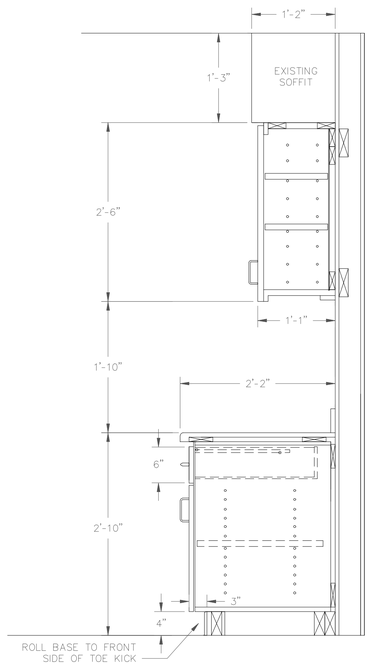
1 A2.40 ISO EXAM ROOM 25
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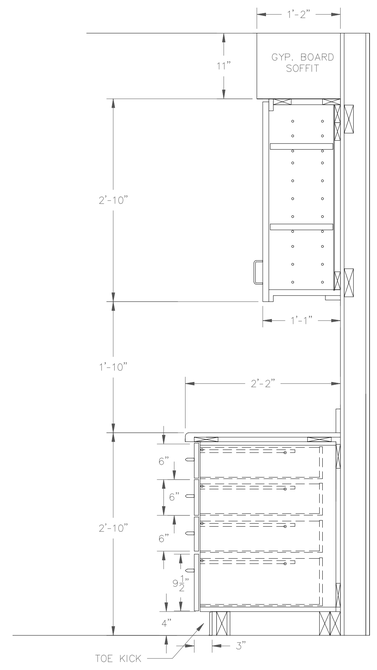
2 A2.40 EXAM RM 24
SCALE: 1/2" = 1'



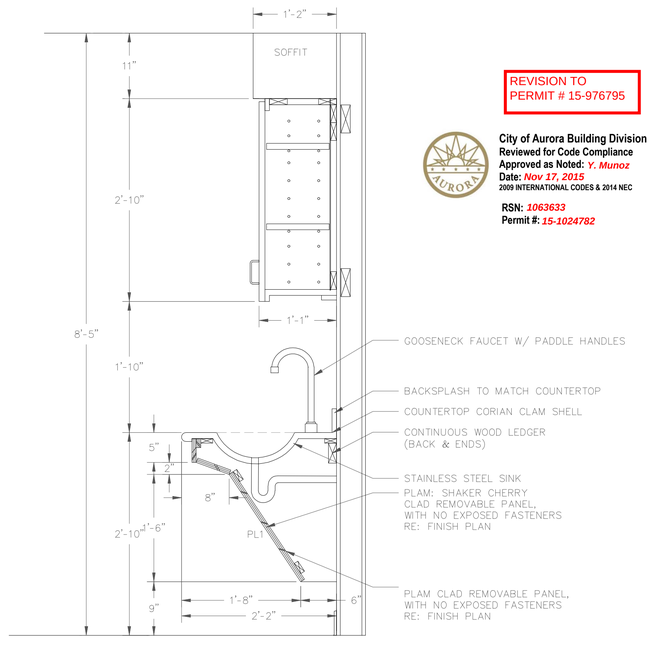
3 A2.40 EXAM RM 24
SCALE: 1/2" = 1'



4 A2.40 EXAM ROOM TYP
SCALE: 1" = 1'



5 A2.40 EXAM ROOM TYP
SCALE: 1" = 1'



6 A2.40 EXAM ROOM TYP
SCALE: 1" = 1'

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STATE OF COLORADO
TOM THOMPSON
305892
09.30.15
LICENSED ARCHITECT

PROJECT NO.:	14-04
DRAWN BY:	TH
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SHEET TITLE:

ELEVATIONS / SECTIONS

SHEET NO.:

A2.40

GENERAL NOTES - ALL HVAC SHEETS:

A. ANY DISCREPANCY THAT PREVENTS THE CONTRACTOR FROM MEETING THE DESIGN INTENT OF THE DRAWINGS SHALL BE DOCUMENTED ON THE PROJECT RECORD DOCUMENTS AND BE REPORTED TO THE ARCHITECT/ENGINEER IMMEDIATELY.

B. ALL DEVIATIONS FROM SCHEDULED EQUIPMENT THAT RESULTS IN ADDITIONAL COST DUE TO LACK OF COORDINATION WITH DIMENSIONS, WEIGHTS, AND CONNECTION POINTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

C. CONTRACTOR SHALL VISIT JOBSITE AND VERIFY SIZE AND LOCATION OF ALL EXISTING ITEMS AND CONDITIONS. CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.

D. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.

E. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.

F. THE CONTRACTOR SHALL PREPARE A FULL SET OF COORDINATION DRAWINGS, SHOWING THE RELATIONSHIP OF ALL SYSTEMS TO BE INSTALLED. THESE DRAWINGS SHALL INDICATE SIZES, ELEVATIONS, AND EXACT LOCATIONS OF ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. THESE DRAWINGS SHALL BE COMPLETED PRIOR TO BEGINNING ANY WORK AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW. CONTRACTOR SHALL NOTE ANY ITEMS THAT PREVENT HIM FROM MEETING THE DESIGN INTENT OF THE CONSTRUCTION DOCUMENTS ON THESE DRAWINGS.

G. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.

H. COORDINATE THE EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND DEVICES WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.

I. COORDINATE THE LOCATION OF DUCTWORK AND PIPING WITH ALL OTHER TRADES AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED.

J. IT IS THE INTENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF DUCTWORK AND PIPING AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO MEET THIS INTENT.

K. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.

L. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON PADS AS SPECIFIED. PAD BY GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

M. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS AND WITH BUILDING SCHEDULES, OCCUPANCIES, AND WORK.

N. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.

O. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.

P. CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH ALL OTHER TRADES.

Q. CLIENT/ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL GRILLE, DIFFUSER, AND THERMOSTAT LOCATIONS.

R. COORDINATE ALL AIR DEVICE LOCATIONS AND MOUNTING FRAME STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.

S. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.

T. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

U. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF WALLS THAT EXTEND TO STRUCTURE. EACH HVAC DUCT OR PIPE PENETRATION THROUGH THESE WALLS SHALL BE INSTALLED AS SPECIFIED OR DETAILED. WHERE FLEXIBLE DUCT WOULD PENETRATE A WALL WHICH EXTENDS TO STRUCTURE, PROVIDE INSULATED RIGID DUCT EXTENDING 12" ON EITHER SIDE OF THE PARTITION.

V. ALL DEVIATIONS FROM SCHEDULED EQUIPMENT THAT RESULTS IN ADDITIONAL COST DUE TO LACK OF COORDINATION WITH DIMENSIONS, WEIGHTS, AND CONNECTION POINTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

W. DUCT SIZES ARE NET FREE AREA.

X. PROVIDE ROUND DUCTS TO ALL AIR DEVICES UNLESS NOTED OTHERWISE. DUCT SIZE SHALL MATCH AIR DEVICE NECK SIZE OR THE TABLE IN AIR DEVICE SCHEDULE, WHICHEVER IS LARGER. FLEXIBLE DUCTS SHALL BE SIZED SIMILARLY. DO NOT USE FLEXIBLE DUCTS ABOVE NON-LAYIN CEILINGS.

Y. PROVIDE FRAMED 0.5" BY 0.5" BIRD SCREEN (GALVANIZED STEEL ASSEMBLY) AT ALL DUCTS TERMINATING WITHOUT AN AIR DEVICE, AT INDOOR FACE OF LOUVERS, AND AT UNDUCTED AIR FLOW OPENINGS AT EQUIPMENT.

Z. PROVIDE MANUAL VOLUME DAMPER IN EACH AIR DEVICE RUNOUT DUCT AS FAR FROM AIR DEVICE AS POSSIBLE.

AA. INSTALL TURNING VANES IN ALL 90 DEGREE SQUARE ELLS IN SUPPLY, RETURN, AND EXHAUST DUCTS. (NONE ALLOWED IN COMBUSTION AIR DUCTS).

AB. MULTI-BLADE DAMPERS OF ANY TYPE INSTALLED WITHIN 36" OF AN ELL OR OTHER FITTING SHALL BE INSTALLED WITH THE DAMPER BLADE SHAFTS PARALLEL TO THE AIRSTREAM FLOW DIRECTION UPSTREAM OF THE FITTING.

AC. ALL FIRE AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION DETAILS AND BE U.L. TESTED AND LISTED.

AD. SLOPE & ARRANGE CONDENSATE PIPING TO ESTABLISH HIGH POINTS FOR AIR ELIMINATION AND LOW POINTS TO PERMIT PROPER DRAINING OF EACH LINE. PROVIDE MANUAL AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINTS.

AE. COORDINATE LOCATION OF ALL DUCT AND PIPING FLOOR SLEVE/CORE PENETRATIONS WITH STRUCTURAL DRAWINGS.

AB. INSTALL SPACE THERMOSTAT ADJACENT TO LATCH SIDE OF DOOR IN SPACE INDICATED. INDICATED LOCATIONS ARE APPROXIMATE. AVOID HEAT PRODUCING EQUIPMENT. FINAL SPACE THERMOSTAT/SENSOR LOCATIONS SHALL BE AS DIRECTED BY THE ARCHITECT.

AE. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES OF 42" DEEP AND 30" WIDE IN FRONT OF EQUIPMENT.

GENERAL DEMOLITION NOTES:

A. ALL CAPPED DUCT TAPS AND CONNECTING DUCTS THAT ARE NOT BEING USED ARE TO BE REMOVED BACK TO THE MAIN DUCT AND PATCHED AS PER ITEM B BELOW.

B. PATCH OPENINGS IN EXISTING DUCTWORK THAT IS TO REMAIN INCLUDING OPENINGS. WHERE TAPS OR DUCTWORK ARE TO BE REMOVED, THE FOLLOWING SHALL OCCUR:

- OPENINGS IN THE MAIN DUCTS ARE TO BE COVERED WITH A SHEET METAL PATCH. THE PATCH IS TO BE LARGER THAN THE EXISTING OPENING AND IS TO BE SECURED WITH SHEET METAL SCREWS FOUR INCHES ON CENTERS.
- A LIBERAL QUANTITY OF FIRE RESISTANT ADHESIVE IS TO BE APPLIED TO THE EDGES OF THE METAL PATCH AND THE ASSEMBLY SCREWED IN PLACE.

C. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS PLAN. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.

D. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.

E. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

F. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

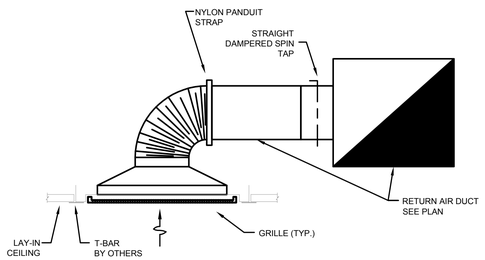
G. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.

H. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE.

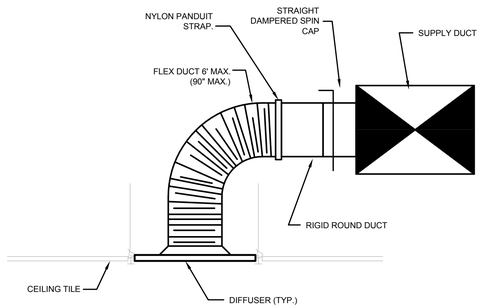
MECHANICAL ABBREVIATIONS

AC	ABOVE CEILING	FCU	FAN COIL UNIT
AFF	ABOVE FINISHED FLOOR	FPB	FAN POWERED BOX
AI	ANALOG INPUT	FPI	FINS PER INCH
AO	ANALOG OUTPUT	GC	GENERAL CONTRACTOR
BFC	BELOW FINISHED CEILING	GEF	GENERAL EXHAUST FAN
BF	BELOW FLOOR, BLIND FLANGE	GSF	GENERAL SUPPLY FAN
BG	BELOW GRADE	MVD	MANUAL VOLUME DAMPER
BV	BUTTERFLY VALVE	N	NEW
CD	CONDENSATE LINE	OBD	OPPOSED BLADE DAMPER
CRU	COMPUTER ROOM UNIT	R	RELOCATED
CU	CONDENSING UNIT	RA	RETURN AIR
DI	DIGITAL INPUT	SA	SUPPLY AIR
DO	DIGITAL OUTPUT	UH	UNIT HEATER
DS	DISCONNECT SWITCH	VAV	VARIABLE AIR VOLUME
E	EXISTING	WH	WATER HEATER
ECD	EMERGENCY CONDENSATE LINE	WHP	WATER-SOURCE HEAT PUMP
EDH	ELECTRIC DUCT HEATER	FMB	FILTER MIXING BOX
EUH	ELECTRIC UNIT HEATER	IN HG	INCHES MERCURY (PRESSURE)
EF	EXHAUST FAN	IN WC	INCHES WATER COLUMN (PRESSURE)
SF	SUPPLY FAN	IBT	INVERTED BUCKET TRAP
EA	EXHAUST AIR	TAV	THERMOSTATIC AIR VENT (STEAM SYSTEM)
OA	OUTSIDE AIR		
RLA	RELIEF AIR	MA	MIXED AIR
CHW	CHILLED WATER	RCA	RECIRCULATED AIR (RETURN)
UNO	UNLESS NOTED OTHERWISE	SCD	SECONDARY CONDENSATE LINE
PRV	PRESSURE RELIEF VALVE		
SV	SAFETY VALVE		

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.



01 RETURN AIR GRILLE DUCT CONNECTION
NO SCALE



02 DIFFUSER CONNECTION DETAIL
NO SCALE

MECHANICAL SYMBOLS

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	EXPANSION LOOP
	GATE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	CALIBRATED BALANCING VALVE
	GLOBE VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	PLUG VALVE/BALANCING COCK
	SOLENOID VALVE
	CHECK VALVE
	VALVE IN VERTICAL
	UNION OR FLANGE
	PETE'S PLUG
	GAUGE COCK
	THERMOMETER
	THERMOMETER WELL
	CALIBRATED BALANCING VALVE
	STRAINER WITH BLOW-OFF VALVE
	F & T STEAM TRAP
	STEAM BUCKET TRAP
	CONNECT TO EXISTING
EP	ELECTRIC PNEUMATIC SWITCH
	ECCENTRIC REDUCER (TOP SIDE)
	ECCENTRIC REDUCER (BOTTOM SIDE)
	CONCENTRIC REDUCER
V	VENT (FROM STEAM SYSTEM)
BD	BLOWDOWN (STEAM SYSTEM)
#	CONTROL SIGNAL
D	DRAIN LINE (FROM EQUIPMENT)
	DUCT FLEXIBLE CONNECTION
30#	STEAM LINE (30 PSIG SHOWN)
OF	OVERFLOW LINE (FROM EQUIPMENT)
S	DIESEL FUME EXHAUST SYSTEM SWITCH
T ID	TEMPERATURE INDICATING DEVICE
H ID	HUMIDITY INDICATING DEVICE

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SYMBOL	DESCRIPTION
A / #	NEW EQUIPMENT DESIGNATION (TOP - EQUIP. ABBREV., BOTTOM - MARK)
A / #	NEW DIFFUSER DESIGNATION (TOP - SCHEDULE DESIG., BOTTOM - CFM)
	NEW EQUIPMENT
	EXISTING EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED OR RELOCATED
	NEW PIPING
	EXISTING PIPING
	EXISTING PIPING TO BE REMOVED OR RELOCATED
	NEW DUCT
	EXISTING DUCT
	EXISTING DUCT TO BE REMOVED OR RELOCATED
	NEW DUCT PROVIDED AS NOTED
	NEW SUPPLY DIFFUSER
	EXISTING SUPPLY DIFFUSER
	EXISTING SUPPLY DIFFUSER TO BE REMOVED OR RELOCATED
	NEW R/A OR EXHAUST GRILLE
	EXISTING R/A OR EXHAUST GRILLE
	EXISTING R/A OR EXHAUST GRILLE TO BE REMOVED OR RELOCATED
	FLEXIBLE DUCT
T	THERMOSTAT
T	EXISTING THERMOSTAT TO BE REMOVED OR RELOCATED
	45° PRESSURE TAP W/ VOLUME DAMPER
	CONICAL TAP WITH VOLUME DAMPER
	CONICAL TAP W/O VOLUME DAMPER
	MANUAL VOLUME DAMPER
	SLEEVE/RETAINING ANGLE ASSEMBLY PER 2004 FBC
	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
M	MOTORIZED DAMPER
B	BAROMETRIC DAMPER
CHS	CHILLED WATER SUPPLY PIPE
CHR	CHILLED WATER RETURN PIPE
CS	CONDENSER WATER SUPPLY PIPE
CR	CONDENSER WATER RETURN PIPE
HS	HEATING WATER SUPPLY
HR	HEATING WATER RETURN
HPS	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE CONDENSATE RETURN
PCR	PUMPED CONDENSATE RETURN
PCHS	PRIMARY CHILLED WATER SUPPLY
PCHR	PRIMARY CHILLED WATER RETURN
RHP	REFRIGERATED HIGH PRESSURE PIPE
RLP	REFRIGERATED LOW PRESSURE PIPE
SCHS	SECONDARY CHILLED WATER SUPPLY
SCHR	SECONDARY CHILLED WATER RETURN
MW	MAKE-UP WATER
CD	CONDENSATE DRAIN

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	AURORA, COLORADO
APPLICABLE CODES:	
BUILDING	2009 IBC
MECHANICAL	2009 IMC
PLUMBING	2009 IPC
ENERGY	2009 IECC
ELECTRICAL	2011 NEC
LATITUDE:	
DEG. N. LAT.	39.75
ELEVATION:	
FT. ABOVE SEA LEVEL	5331

RSN: *1063633*
Permit #: *2015-1025782-LT*

The Medical Center of Aurora
HealthONE

TRIAGE WAITING METAL DETECTOR

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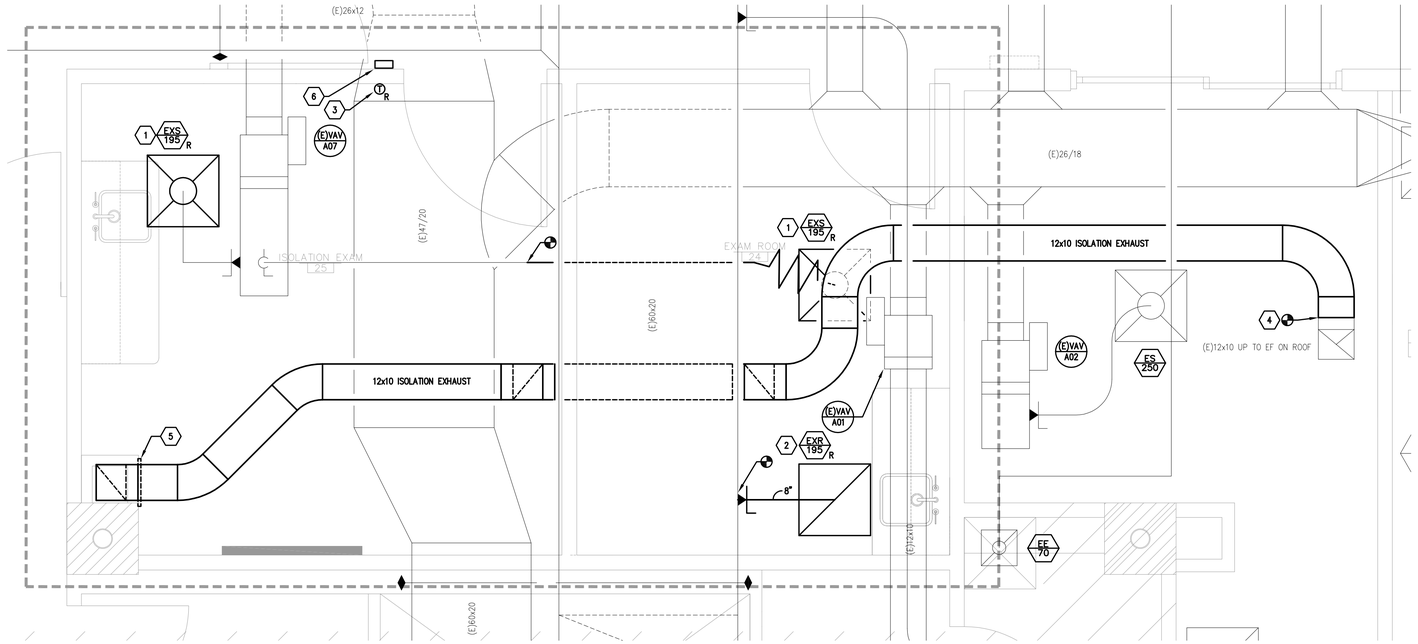
COLORADO LICENSED MECHANICAL ENGINEER 47964 10/26/15 PROFESSIONAL ENGINEER

PROJECT NO.:	14-04
DRAWN BY:	DG/SM
CHECKED BY:	WS
SCALE:	
DATE:	10.26.15
ISSUED FOR:	CONSTRUCTION
REVISIONS:	

SHEET TITLE:
MECHANNICAL LEGENDS, GENERAL NOTES, AND ABBREVIATIONS

SHEET NO.:
M-0.0

OF



NORTH

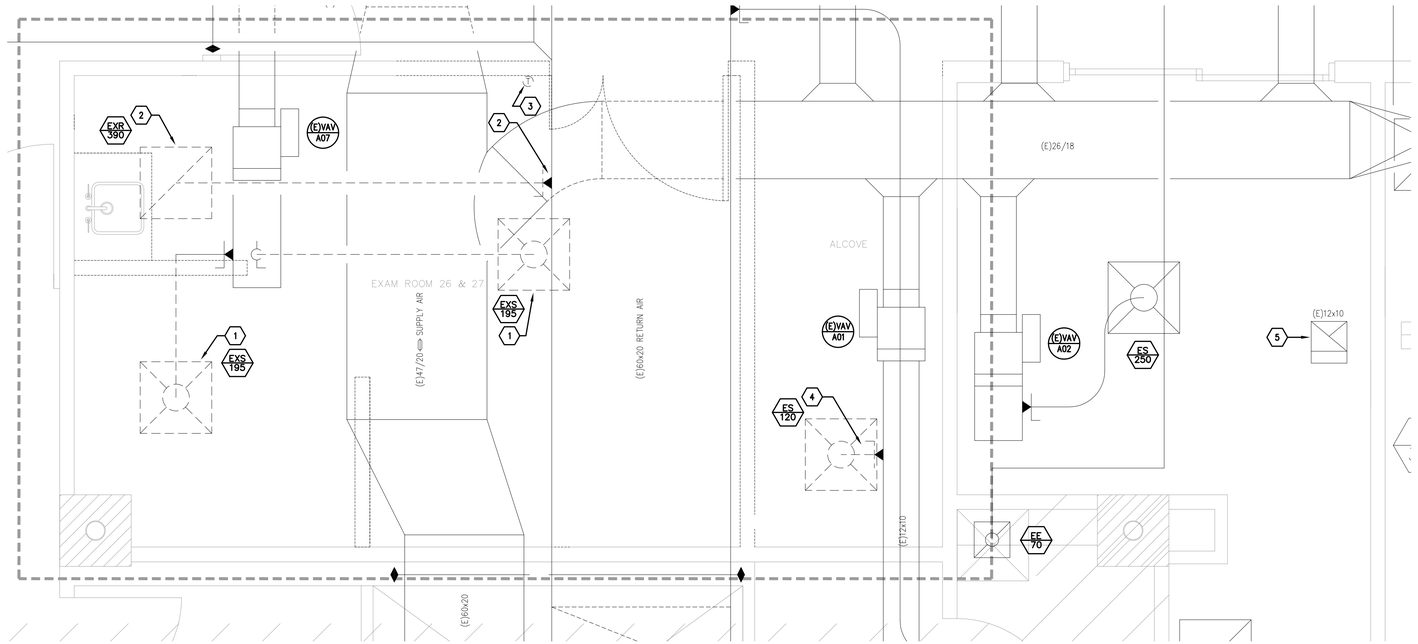
MECHANICAL PLAN - NEW
1/2" = 1'

GENERAL NOTES

A. REFER TO SHEET M-0.0 FOR LEGENDS, GENERAL NOTES, AND ABBREVIATIONS.

LEGEND NOTES

1. NEW LOCATION FOR EXISTING SUPPLY DIFFUSER. VERIFY AIR BALANCE TO INDICATED AIR FLOW.
2. NEW LOCATION FOR EXISTING RETURN AIR GRILLE. PROVIDE NEW TAP AND RUN-OUT DUCT INTO EXISTING RETURN AIR MAIN. BALANCE TO INDICATED AIRFLOW.
3. NEW LOCATION FOR EXISTING THERMOSTAT. MATCH EXISTING MOUNTING HEIGHT FOR FACILITY.
4. ROTATE EXISTING DUCT ELBOW AND ROUTE NEW ISOLATION EXHAUST AS SHOWN TO NEW EXHAUST GRILLE.
5. LOW EXHAUST GRILLE SHALL BE 6" ABOVE FINISHED FLOOR. GRILLE SHALL BE 10"x10" AND EQUAL TO TITUS 350RL. AIRFLOW SHALL BE EQUAL TO FAN CFM BUT NO LESS THAN 300 CFM.
6. ROOM DIFFERENTIAL PRESSURE MONITOR BY SIEMENS. PROVIDE PRESSURE MODE KEY SWITCH TO DISABLE ALARM WHEN ROOM IS NOT USED FOR ISOLATION PATIENTS. ROOM PRESSURE DISPLAY TO BE MOUNTED AT 54" ABOVE FINISHED FLOOR. COORDINATE LOCATION OF PRESSURE SENSING ELEMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.



NORTH

MECHANICAL PLAN - DEMOLITION
1/2" = 1'

GENERAL NOTES

A. REFER TO SHEET M-0.0 FOR LEGENDS, GENERAL NOTES, AND ABBREVIATIONS.

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.

LEGEND NOTES

1. EXISTING SUPPLY DIFFUSER TO BE RELOCATED.
2. EXISTING RETURN AIR GRILLE TO BE RELOCATED. DEMOLISH RUN-OUT DUCT FROM RETURN AIR MAIN DUCT TO GRILLE. PATCH AND SEAL EXISTING DUCT MAIN TO AIR TIGHT CONDITIONS.
3. EXISTING THERMOSTAT TO BE RELOCATED.
4. DEMOLISH EXISTING SUPPLY AIR DIFFUSER AND DUCT RUN-OUT. PATCH AND SEAL EXISTING SUPPLY AIR DUCT TO AIR TIGHT CONDITIONS.
5. EXISTING 12x10 EXHAUST DUCT UP TO EXISTING ISOLATION EXHAUST FAN ON ROOF. FAN SHALL BE USED FOR NEW ISOLATION ROOM EXHAUST. SEE NEW WORK PLANS FOR ADDITIONAL INFORMATION.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
Date: *Nov 30, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *2015-1025782-LT*

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COLORADO LICENSED PROFESSIONAL ENGINEER
47964
10/22/15

PROJECT NO.:	**14-04**
DRAWN BY:	**DG/SM**
CHECKED BY:	**WS**
SCALE:	
DATE:	**10.26.15**
ISSUED FOR:	**CONSTRUCTION**
REVISIONS:	

SHEET TITLE:

MECHANICAL PLANS DEMOLITION AND NEW

SHEET NO.:

M-1.0

OF

MECHANICAL SPECIFICATIONS

I GENERAL CONDITIONS:

A. THE SCOPE OF THE WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF THE NECESSARY MATERIAL AND LABOR TO ACCOMPLISH THE WORK INDICATED BY THE DRAWINGS AND HEREIN SPECIFIED. ALL WORK BY THIS CONTRACTOR SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE EXISTING CONDITIONS AT THE JOB SITE BEFORE SUBMITTING PROPOSALS. SUBMISSION OF PROPOSALS SHALL BE TAKEN AS EVIDENCE THAT SUCH INSPECTION HAS TAKEN PLACE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

C. MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE NEW AND SHALL BEAR THE UL. LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER COMPLETION AND ACCEPTANCE BY THE OWNER.

D. CONTRACTOR SHALL INSTALL MECHANICAL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH OTHER TRADES.

E. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL ORDINANCES, UTILITY COMPANY REGULATIONS, AND APPLICABLE REQUIREMENTS OF NATIONALLY ACCEPTED CODES AND STANDARDS. SHOULD THE CONTRACTOR SUPPLY EQUIPMENT DIFFERING FROM THE SPECIFIED ITEMS IN THE CONTRACT DOCUMENTS WITHOUT NOTIFICATION TO THE ENGINEER, HE SHALL BEAR ALL COSTS TO UPGRADE DEFICIENCIES ARISING FROM SUCH.

F. WHERE ONLY ONE MANUFACTURER'S NAME IS LISTED IN THE EQUIPMENT SPECIFICATION, OTHER MANUFACTURERS OF SIMILAR CHARACTERISTICS AND OF EQUAL OR BETTER PERFORMANCE CAPACITIES MAY BE CONSIDERED FOR "OR EQUAL" APPROVAL BY THE ENGINEER. WHERE MORE THAN ONE MANUFACTURER IS LISTED IN THE NOTES AND EQUIPMENT SPECIFICATIONS, ONLY THOSE NAMED MANUFACTURERS WILL BE CONSIDERED FOR APPROVAL.

G. SHOULD A SUBSTITUTION BE ACCEPTED, AND SHOULD THE SUBSTITUTE MATERIAL PROVE DEFECTIVE, OR OTHERWISE UNSATISFACTORY FOR THE SERVICE INTENDED WITHIN THE GUARANTEE PERIOD, THIS MATERIAL OR EQUIPMENT SHALL BE REPLACED WITH THE MATERIAL OR EQUIPMENT SPECIFIED AT NO COST TO THE OWNER.

H. PROVIDE ACCESS, INCLUDING NECESSARY ACCESS DOORS, FOR NEW AND EXISTING EQUIPMENT REQUIRING OPERATION AND/OR MAINTENANCE. RELOCATE EXISTING AND LOCATE ALL NEW EQUIPMENT SUCH THAT OPERATION OR MAINTENANCE IS NOT RESTRICTED.

I. DO NOT RUN PIPING OR DUCTWORK, OR LOCATE EQUIPMENT, WITH RESPECT TO SWITCHBOARDS, PANELBOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS, WITHIN 42 INCHES IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36 INCHES HORIZONTALLY OF SAME SPACE.

J. PROVIDE SNAP-ON OR ADHESIVES LABELS INDICATING CHILLED OR HOT WATER SUPPLY AND RETURN, CONDENSATE DRAINAGE, DOMESTIC HOT AND COLD WATER, MEDICAL GASES, ETC.

II MECHANICAL DEMOLITION

A. UNLESS NOTED OTHERWISE, THE MECHANICAL DEMOLITION SHALL BE CARRIED OUT TO THE EXTENT THAT THE FLOORS ARE RETURNED TO THE ORIGINAL BASE BUILDING CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS IN ORDER TO ACCURATELY DETERMINE THE EXTENT OF THE WORK UNDER THIS SECTION.

B. UNLESS NOTED OTHERWISE, REMOVE EXISTING INTERIOR DIFFUSERS, GRILLES, AND DUCTWORK AS INDICATED PLANS. EXISTING DIFFUSERS AND GRILLES MAY BE REUSED IF THEY MEET THE SCHEDULED SPECIFICATIONS.

C. EXISTING THERMOSTATS AND/OR TEMPERATURE SENSORS ARE TO BE RELOCATED AND REUSED IF IN GOOD WORKING CONDITION.

D. WASTE, DOMESTIC WATER, AND VENT PIPING SHALL BE REMOVED BACK TO RISER STACK CONNECTIONS AND CAPPED, UNLESS NOTED OTHERWISE.

E. EXISTING DUCTWORK SHOWN ON PLANS MAY NOT EXACTLY MATCH THE ACTUAL FIELD CONDITIONS. IT IS NOT NECESSARY TO REWORK THE DUCTWORK IN ORDER TO MATCH WHAT IS DEPICTED ON THE PLANS. CONTRACTOR SHALL VERIFY EXISTING DUCTWORK ROUTING AND LOCATIONS AND MAKE ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS WITH NEW DUCTWORK, EQUIPMENT, LIGHT FIXTURES, ETC.

III PRODUCTS, EQUIPMENT AND EXECUTION:

A. SANITARY DRAIN LINES (SOIL, WASTE AND VENT) SHALL BE AMERICAN MANUFACTURED SERVICE WEIGHT CAST IRON OR DWV COPPER PIPE. JOINTS SHALL BE FABRICATED BY THE USE OF COMPRESSION JOINTS SIMILAR TO TYLER PIPE AND FOUNDRY'S "TY-SEAL" FOR CAST IRON PIPE OR 95/5 SOLDER FOR DWV COPPER PIPE. NO-HUB CAST IRON PIPE ASSEMBLED WITH STAINLESS STEEL/NEOPRENE HUBLESS COUPLINGS SHALL BE LIMITED TO ABOVE GROUND INSTALLATIONS.

B. DOMESTIC WATER PIPING INSTALLED ABOVE GROUND SHALL BE AMERICAN MANUFACTURED TYPE "L" HARD DRAWN COPPER ASSEMBLED WITH 95/5 SOLDER AND WROUGHT COPPER JOINT FITTINGS.

C. RELIEF AND DRAIN PIPING SHALL BE AMERICAN MANUFACTURED TYPE "M" COPPER WITH 95/5 SOLDER JOINT FITTINGS OR SCHEDULE 40 BLACK STEEL PIPES WITH SCREWED FITTINGS.

D. HOT WATER PIPING SHALL BE AMERICAN MANUFACTURED SCHEDULE 40 BLACK STEEL OR TYPE "L" COPPER PIPE IN ACCORDANCE WITH THE FOLLOWING:

1. 2-1/2" AND SMALLER: STANDARD WEIGHT, BLACK STEEL (AMERICAN MANUFACTURED) PIPE WITH BLACK MALLEABLE IRON SCREWED FITTINGS OR TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS ASSEMBLED WITH 95/5 SOLDER.

2. 3" AND LARGER: STANDARD WEIGHT, BLACK STEEL (AMERICAN MANUFACTURED) PIPE ASSEMBLED WITH FLANGED COUPLINGS/FITTINGS OR FACTORY FABRICATED WELDED FITTINGS.

E. REFRIGERANT PIPING SHALL BE AMERICAN MANUFACTURED TYPE "ACR" COPPER PIPE MANUFACTURED IN ACCORDANCE WITH ASTM B88 AND ANSI BP.1 REFRIGERATION INDUSTRY STANDARDS. FITTINGS SHALL BE WROUGHT COPPER PRESSURE TYPE AND ELBOWS SHALL BE LONG RADIUS TYPE. PIPE AND FITTINGS SHALL BE ASSEMBLED WITH SILVER BRAZING AND PURGED WITH NITROGEN DURING BRAZING. PIPING SHALL BE INSTALLED TO ALLOW FOR EXPANSION AND CONTRACTION; USING OFFSETS, SWING JOINTS, ETC. AS SHOWN AND/OR REQUIRED TO PREVENT UNDUE STRAIN ON THE PIPING.

1. SOLENOID AND HOT GAS BYPASS VALVES SHALL BE R/S FLO-CON SPORLAN.

2. FILTER-DRIERS SHALL BE SPORLAN REPLACEABLE CORE "CATCH-ALLS".

3. SIGHT GLASS SHALL BE SPORLAN "SEE-ALL".

4. AUXILIARY SIDE CONNECTIONS SHALL BE REQUIRED FOR HOT GAS BY-PASS AND SHALL BE SPORLAN, AND INSTALLED BETWEEN THE ORIFICE AND THE DISTRIBUTOR.

5. THERMOSTATIC EXPANSION VALVES WITH 10 DEGREES SUPERHEAT SHALL BE SPORLAN AND SIZED AND SELECTED FOR USE WITH THE EVAPORATOR SERVED AT THE DESIGN OPERATING PRESSURE.

6. SUCTION LINE ACCUMULATORS SHALL BE EQUAL TO MODEL S-7400 AS MANUFACTURED BY AC&R COMPONENTS, INC.

7. SHUT-OFF, CHECK, SOLENOID AND RELIEF VALVES SHALL BE AS MANUFACTURED BY THE HENRY VALVE COMPANY.

F. MEDICAL GAS PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH CURRENT NFPA-99 AND HOSPITAL LICENSING CODE REQUIREMENTS, GCA P-2.1 RECOMMENDATIONS FOR MEDICAL-SURGICAL VACUUM SYSTEMS IN HEALTH CARE FACILITIES.

1. PIPING SHALL BE AMERICAN MANUFACTURED SEAMLESS TYPE 'K' HARD-DRAWN COPPER TUBING CLEANED AND SEALED FOR MEDICAL GAS USE. FITTINGS SHALL BE WROUGHT, BRASS OR BRONZE, MADE ONLY FOR BRAZED CONNECTIONS. ALL JOINTS IN THE PIPING, EXCEPT AT VALVES AND EQUIPMENT REQUIRING SCREW CONNECTIONS, SHALL BE ASSEMBLED WITH A SILVER BRAZING ALLOY. SCREWED JOINTS SHALL BE MADE-UP WITH GLYCERIN.

2. MEDICAL GAS WALL OUTLETS SHALL MATCH EXISTING MANUFACTURER, MODEL NUMBER AND FINISH OR MAY BE BEACON MEDICAL PRODUCTS TO MATCH EXISTING.

3. PROVIDE NECESSARY PIPING, FITTINGS, VALVES, ALARMS, SENSORS, WIRING, OUTLETS, ETC. AND LABOR FOR COMPLETE OPERATING SYSTEMS.

4. COLOR-CODED ADHESIVE PIPE MARKERS SHALL BE INSTALLED AT NO MORE THAN 20 FEET APART, OR ONE IN EACH ROOM, OR EACH FLOOR OF THE BUILDING. LABELS SHALL INCLUDE GAS CONTENTS, OPERATING PRESSURE AND THE DIRECTION OF FLOW ON ALL MEDICAL GASES, COMPRESSED AIR AND VACUUM PIPING.

5. THE MEDICAL AIR VACUUM PIPING SHALL ORIGINATE FROM THE EXISTING AIR AND VACUUM PIPING SYSTEMS LOCATED ABOVE THE CORRIDOR CEILING.

6. THE OXYGEN PIPING SHALL ORIGINATE FROM THE EXISTING OXYGEN DISTRIBUTION LINE ABOVE THE CORRIDOR CEILING.

7. THE MANUFACTURER OF MEDICAL GAS EQUIPMENT SHALL TEST ALL MEDICAL GAS PIPING SYSTEMS AFTER INSTALLATION TO INSURE THAT NO CROSSED LINES EXIST AND THAT THE PROPER SERVICE IS BROUGHT TO EACH OUTLET. THE TEST SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 99 4-5 GAS SYSTEM PERFORMANCE CRITERIA AND TESTING. FURNISH THE OWNER, THROUGH THE ARCHITECT, A WRITTEN CERTIFICATION, SIGNED BY AN OFFICER OF THE COMPANY, THAT THE SYSTEM HAS BEEN CHECKED AND IS CONSTRUCTED AND TESTED IN ACCORDANCE WITH NFPA 99 AND IS SAFE FOR PATIENT USE. MANUFACTURER MUST SUBMIT A LETTER SIGNED BY AN OFFICER OF THE COMPANY TO THE ARCHITECT 10 DAYS PRIOR TO BID OPENING THAT THIS SERVICE WILL BE PERFORMED.

8. VALVES NOT IN BOXES SHALL BE BEACON BRONZE-BODY, DOUBLE-SEAL, FULL-FLOW UNION BALL TYPE, WITH TEFLON SEATS AND SEALS, DESIGNED FOR A WORKING PRESSURE OF 27" Hg VACUUM TO 400 PSI WITH CHROME-PLATED BRASS BALLS WHICH SEAL IN BOTH DIRECTIONS. EACH VALVE SHALL BE SO DESIGNED THAT ONLY A QUARTER TURN OF THE LEVER TYPE HANDLE IS NECESSARY BETWEEN THE OPEN AND CLOSED POSITIONS. VALVE DESIGN SHALL ELIMINATE THE NEED FOR UNIONS BY PERMITTING REMOVAL OR SWING-AWAY OF THE CENTER VALVE SECTION OUT-OF-LINE. VALVES SHALL CONFORM TO NFPA STANDARDS. VALVES SHALL BE SUPPLIED PROPERLY WASHED FOR OXYGEN SERVICE. GAS SERVICE LABELS SHALL BE PROVIDED FOR EACH SERVICE AS REQUIRED.

9. PROVIDE GAUGES ON SYSTEMS AS REQUIRED BY NFPA 99, CURRENT EDITION, AND WHERE INDICATED ON THE DRAWINGS.

10. GAUGES FOR PIPELINE INSTALLATION SHALL BE EQUAL TO OHMEDA MAIN LINE GAUGES AS FOLLOWS:

	SERVICE	CALIBRATION	STOCK NO.
a.	OXYGEN, N20, AIR	0-100 PSI	841-0014-300
b.	VACUUM	0-30" Hg.	395-7558-300
c.	NITROGEN	0-400 PSI	841-0007-300

11. WALL SERVICE OUTLETS SHALL BE INSTALLED WHERE INDICATED ON THE DRAWINGS AND SHOWN ON ARCHITECTURAL ELEVATIONS.

12. OUTLETS TO MATCH EXISTING.

13. BEFORE ERECTION, ALL PIPE, TUBING, VALVES AND FITTINGS (EXCEPT THOSE SUPPLIED EXPRESSLY CLEANED FOR OXYGEN SERVICES BY MANUFACTURER) SHALL BE THOROUGHLY CLEANSED OF ALL GREASE, OIL OR OTHER READILY OXIDIZABLE MATERIALS BY WASHING IN A HOT SOLUTION OF SODIUM CARBONATE OR TRISODIUM PHOSPHATE MIXED IN EQUAL PROPORTIONS OF ONE POUND TO THREE GALLONS OF WATER. SCRUBBING AND CONTINUOUS AGITATION OF THE PARTS SHALL BE EMPLOYED WHERE NECESSARY TO REMOVE ALL DEPOSITS AND INSURE COMPLETE CLEANSING. AFTER WASHING, ALL MATERIALS SHALL BE RINSED THOROUGHLY IN CLEAN, HOT WATER. AFTER CLEANSING, GREAT CARE MUST BE EXERCISED IN THE STORAGE AND HANDLING OF ALL MATERIALS AND IN THE CONDITION OF TOOLS USED IN CUTTING AND REAMING TO PREVENT OIL OR GREASE BEING INTRODUCED INTO THE TUBING. WHERE SUCH CONTAMINATION IS KNOWN TO HAVE OCCURRED, THE MATERIALS AFFECTED MUST BE REWASHED AND THEN RINSED.

14. AFTER INSTALLATION OF THE PIPING, BUT BEFORE INSTALLATION OF THE STATION OUTLETS AND OTHER MEDICAL GAS SYSTEM COMPONENTS (e.g., PRESSURE-ACTUATING SWITCHES FOR ALARMS, MANIFOLDS, PRESSURE GAUGES OR PRESSURE RELIEF VALVES), THE LINE SHALL BE BLOWN CLEAR BY MEANS OF OIL-FREE, DRY AIR OR NITROGEN. THE SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 99 4-5.1.3 "MEDICAL GAS SYSTEM TEST".

15. ALL PIPING SHALL BE SUPPORTED WITH COPPER-CLAD HANGERS WITH POLYSTYRENE OR NEOPRENE INSERTS OR PADS AT APPROPRIATE INTERVALS AND NOT SUPPORTED BY OTHER PIPING.

G. FITTINGS AND PIPING CONNECTED WITH PLUMBING FIXTURES SHALL BE BRASS AND, WHEREVER EXPOSED, SHALL BE POLISHED CHROME-PLATED.

H. FURNISH AND INSTALL ALL REQUIRED WATER, WASTE, SOIL, AND VENT CONNECTIONS TO ALL PLUMBING FIXTURES AND EQUIPMENT, TOGETHER WITH ALL FITTINGS, SUPPORTS, FASTENING DEVICES, COCKS, VALVES, TRAPS, ETC., LEAVING ALL IN COMPLETE WORKING ORDER.

I. PLUMBING FIXTURES SHALL BE PROVIDED AS SCHEDULED ON THE DRAWINGS. PLUMBING FIXTURES SHALL BE NEW, EXCEPT WHERE NOTED, AND SHALL BE APPROVED BY THE APPLICABLE WATER CONSERVATION AUTHORITY. THE PLUMBING CONTRACTOR SHALL PROVIDE NECESSARY CHROME PLATED P-TRAPS, SUPPLIES WITH STOPS, RISERS, INLET DRAINS, ETC.

J. SHOCK ARRESTORS SHALL BE SIMILAR TO JOSAM 75000 OR AS MANUFACTURED BY PPP AND SIOUX CHIEF SIZED AS PER THE PDI.

K. FIXTURE CARRIERS SHALL BE PROVIDED FOR WATER CLOSETS, URINALS AND LAVATORIES AS REQUIRED AND SHALL BE FLOOR SUPPORTED AS MANUFACTURED BY JOSAM.

L. TRAP PRIMERS SHALL BE AS REQUIRED BY LOCAL CODES AND SIMILAR TO J.R. SMITH FIR 2698 WATER SAVER TRAP PRIMER.

M. FLOOR DRAINS SHALL BE SIMILAR TO JOSAM SERIES 30000 CAST IRON FLOOR DRAIN WITH NICKALOY STRAINER.

N. CLEANOUTS SHALL BE PROVIDED IN SANITARY WASTE LINES AS SHOWN AND AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES. WALL CLEANOUTS SHALL BE SIMILAR TO JOSAM 5879 WITH BRONZE PLUG AND STAINLESS STEEL COVER. FLOOR CLEANOUTS SHALL BE SIMILAR TO JOSAM 56020 WITH CARPET MARKER FOR CARPETED FLOORS.

O. PIPE, EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED FROM STRUCTURE WITH THE USE OF APPROVED TYPE CLEVIS, TRAPEZE HANGERS OR FLOOR STANDS WITH SPACING AS FOLLOWS:

1. STEEL PIPE OR COPPER TUBING - 1-1/2" OR LESS, 6 FOOT INTERVALS.

2. CAST IRON - ONE (1) HANGER PER LENGTH OF PIPE AND NOT EXCEEDING 10'-0" O.C.

3. FITTINGS - WITHIN 2'-0" OF EACH CHANGE OF DIRECTION.

P. INSULATION SHALL BE PROTECTED AT HANGERS BY A SECTION OF CALCIUM SILICATE PIPE INSULATION AND A 12" LONG HALF-ROUND SHEET METAL SHIELD ON THE OUTSIDE OF THE INSULATION. EXTEND PIPING INSULATION FULL THICKNESS WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PENETRATIONS.

Q. PROVIDE AND INSTALL UNIONS AT PROPER POINTS TO PERMIT REMOVAL OF A PIPE, EQUIPMENT, ETC., WITHOUT INJURY TO OTHER PARTS OF THE SYSTEM AND TO PREVENT CORROSION DUE TO ELECTROLYSIS. ALL EQUIPMENT SHALL BE INSTALLED IN A MANNER TO PERMIT ACCESS FOR SERVICE WITHOUT DISASSEMBLY. UNIONS SHALL BE DIELECTRIC WHERE DISSIMILAR MATERIALS OCCUR. PRESSURE RATINGS SAME AS FITTINGS.

R. ALL DOMESTIC COLD WATER AND HOT WATER PIPE AND FITTINGS SHALL BE INSULATED WITH ½" THICK OWENS-CORNING FIBERGLASS 25 ASJ/SSL OR APPROVED EQUAL.

S. ROOF DRAIN BODIES AND HORIZONTAL STORM DRAIN PIPING OR DOWNSPOUTS, AND ANY DRAINS RECEIVING CONDENSATE SHALL BE INSULATED WITH 1 ½ " THICK OWENS-CORNING FIBERGLASS FOIL-BACKED ALL SERVICE BLANKET WRAP INSULATION.

T. CHILLED WATER AND HOT WATER HEATING PIPES SHALL BE INSULATED WITH OWENS-CORNING ASJ-SSL-II OR APPROVED EQUAL 1" THICK FOR HOT WATER, 1 ½ " THICK FOR CHILLED WATER PIPE INSULATION. FITTINGS AND VALVES SHALL BE FINISHED WITH WHITE 25/50 PVC COVERS OVER MOLDED INSULATION FITTINGS. ALL JOINTS AND LAPS SHALL BE VAPOR SEALED.

U. CONDENSATE DRAIN PIPING, AUXILIARY DRAIN PIPING AND ALL REFRIGERANT PIPING SHALL BE INSULATED WITH 1/2" THICK OWENS-CORNING FIBERGLASS 25 ASJ/SSL OR EQUAL. AUXILIARY DRAIN PAN SHALL BE INSULATED WITH 3/8" THICK ARMAFLEX SHEET INSULATION.

V. PROVIDE INSULATION PRODUCTS MANUFACTURED BY JOHNS-MANVILLE, OWENS-CORNING, ARMSTRONG AND CERTAINTEED. FIBERGLASS PIPE INSULATION SHALL BE ASTM C547-77, CLASS 1. PROVIDE BANDS, WIRES, AND CEMENT AS RECOMMENDED BY INSULATION MANUFACTURER FOR THE APPLICATIONS INDICATED. FLEXIBLE FIBERGLASS DUCTWORK INSULATION SHALL BE ASTM C553-70, TYPE I, CLASS B3.

1. PROVIDE COMPOSITE INSULATION (INSULATION JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVE) WITH FLAME-SPREAD RATINGS OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM K04 (HFFA 255) METHOD.

2. MAINTAIN INTEGRITY OF VAPOR BARRIER JACKETS ON PIPE AND DUCTWORK INSULATION, AND PROTECT TO PREVENT PUNCTURE OR OTHER DAMAGE. SEAL OPEN ENDS OF INSULATION WITH MASTIC. SECTIONALLY SEAL ALL BUTT ENDS OF CHILLED WATER INSULATION OF FITTINGS WITH WHITE VAPOR BARRIER COATING. EXTEND PIPING INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PIPING PENETRATIONS, EXCEPT WHERE OTHERWISE INDICATED. INSTALL PROTECTIVE METAL SHIELDS AND FOAM GLASS INSERTS WHERE PIPE HANGERS BEAR ON OUTSIDE OF INSULATION.

W. ISOLATION VALVES FOR HOT OR CHILLED WATER SYSTEM SHALL BE EQUAL TO MILWAUKEE "BUTTERBALL" OR NIBCO BALL VALVES AND PROVIDED AT EACH PIECE OF EQUIPMENT. PROVIDE AUTO AIR VENTS IN HEATING WATER PIPING WHERE HIGH POINTS OCCUR.

X. RECTANGULAR "LOW PRESSURE" SHEET METAL DUCT SHALL BE FABRICATED OF CONTINUOUS HOT DIP MILL GALVANIZED MINIMUM 26 GAUGE STEEL SHEETS AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS FOR 1.0" W.C.

Y. ROUND "LOW PRESSURE" DUCT FITTINGS SHALL BE FABRICATED OF CONTINUOUS HOT DIP MILL GALVANIZED MINIMUM 26 GAUGE STEEL SHEETS AND INSTALLED IN ACCORDANCE WITH SMACNA RECOMMENDATIONS FOR 0.5" W.C.

Z. RECTANGULAR AND ROUND "PRIMARY AIR" SHEET METAL DUCT AND FITTINGS SHALL BE FABRICATED OF CONTINUOUS HOT DIP MILL GALVANIZED MINIMUM 26 GAUGE STEEL SHEETS AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS FOR 3.0" W.C., AND RECTANGULAR DUCT SHALL HAVE AN INTERNAL DUCT LINING EQUAL TO JOHNS-MANVILLE PERMACOTE LINACOUSTIC, 1" THICK, 1.5 LB. DENSITY DUCT LINER (DUCTS FOR MEDICAL WORK SHALL NOT BE LINED, BUT WILL BE WRAPPED). CONSTRUCTION METHODS:

1. RECTANGULAR - DUCTMATE SYSTEM

2. ROUND - SPIRAL DUCT SYSTEM

A. AA. ROUND DUCTS AND UNLINED RECTANGULAR DUCTS SHALL BE INSULATED WITH 3/4 POUND PER CUBIC FOOT MINIMUM DENSITY, 2" THICK, COMMERCIAL GRADE, OWENS-CORNING FIBERGLASS FOIL BACKED ALL SERVICE DUCT WRAP, OR EQUAL.

BB. FLEXIBLE DUCTS SHALL BE FLEXMASTER TYPE 8M, THERMAFLEX MKE OR WIREMOLD WK. FLEXIBLE DUCTS SHALL BE LISTED AS U.L. 181 CLASS (1) AIR DUCT AND SHALL COMPLY WITH NFPA STANDARDS 90A AND 90B.

CC. CONTRACTOR SHALL BALANCE THE HVAC SYSTEMS FOR DESIGNATED AIR AND WATER QUANTITIES AND SHALL BE N.E.B.B. OR A.A.B.C. APPROVED. SUBMIT REPORT ON NEBB, AABC, OR SMACNA FORMS FOR APPROVAL BY THE ENGINEER. EXTENT OF BALANCING WORK TO INCLUDE REBALANCING OF EXISTING SUPPLY AND EXHAUST SYSTEMS AS REQUIRED TO ACHIEVE DESIGN CFM ON SUBJECT PROJECT.

DD. DUCT ACCESS DOORS: PROVIDE RIGID AND CLOSE FITTING DOORS OF GALVANIZED STEEL WITH SEALING GASKETS AND QUICK FASTENING LOCKING DEVICES. FOR INTERNALLY LINED OR INSTALLED DUCTWORK, INSTALL MINIMUM ONE INCH THICK INSULATION WITH SHEET METAL COVER. INSTALL AT EACH FIRE DAMPER. DOORS TO BE EQUAL TO FLEXMASTER "THE INSPECTOR SERIES."

EE. FURNISH AND INSTALL SMOKE, FIRE AND/OR FIRE/SMOKE DAMPERS WHERE SHOWN ON THE DRAWINGS, AND REQUIRED BY THE GOVERNING AUTHORITY. DAMPERS SHALL BE INSTALLED AS RECOMMENDED BY SMACNA AND COMPLY WITH U.L. AND LOCAL ORDINANCES AS REQUIRED BY THE GOVERNING AUTHORITY.

FF. TEST AND BALANCE:

1. THE GENERAL CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT CERTIFIED AIR BALANCE FIRM TO PERFORM THE TESTING AND BALANCING AND PREPARE REPORTS TO THE GENERAL CONTRACTOR. IF THE MECHANICAL CONTRACTOR IS NEBB CERTIFIED, THEY CAN BALANCE THE SYSTEM.

2. TESTING AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS AND IN ACCORDANCE WITH THE ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION, SECOND EDITION, 1974, OR NATIONAL ENVIRONMENTAL BALANCING BUREAU STANDARDS.

3. THE CONTRACTOR SHALL CORRECT ALL DEFICIENCIES IN THE OPERATION OF FACTORY SET VAV UNITS.

4. READINGS AND TEST OF DIFFUSERS, GRILLES AND REGISTERS SHALL INCLUDE DESIGN, INITIAL TEST, AND FINAL ADJUSTED FPM VELOCITY AND CFM. ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE BALANCED BY A HOOD THAT HAS BEEN CALIBRATED, INCLUDING A MANOMETER, AND PILOT TUBE READINGS SHALL BE TAKEN TO ESTABLISH TOTAL CFM FLOW IN ALL MAIN DUCTS. DIRECT READING INSTRUMENTS SUCH AS VELOMETERS AND ANEMOMETERS MAY BE USED AT TERMINAL UNITS.

IV RECORDS FOR OWNER:

A. CONTRACTOR SHALL KEEP A CLEAN SET OF DRAWINGS ON THE JOB, NOTING DAILY ALL CHANGES MADE IN THESE DRAWINGS IN CONNECTION WITH THE FINAL INSTALLATION INCLUDING EXACT DIMENSIONED LOCATIONS OF ALL NEW AND UNCOVERED EXISTING UTILITIES AND SHALL, WITH HIS REQUEST FOR FINAL PAYMENT, TURN OVER A CLEAN, NEATLY MARKED SET OF 2 MIL REPRODUCIBLE MYLARS SHOWING "AS INSTALLED" WORK TO THE ARCHITECT FOR SUBSEQUENT REVIEW AND TRANSMITTAL TO THE OWNER. CONTRACTOR SHALL NOTE ALL CONSTRUCTION CHANGES, DATE EACH SHEET AND LABEL "AS-BUILTS" IN THE REVISION BLOCK ON THE DRAWINGS. CONTRACTOR SHALL ALSO FURNISH ONE (1) SET OF BLUELINE PRINTS FROM THE "AS-BUILTS" MYLARS.

B. IN ADDITION TO THE ABOVE, CONTRACTOR SHALL ACCUMULATE DURING THE JOB'S PROGRESS, THE FOLLOWING DATA, IN TRIPLICATE, PREPARED IN A NEAT BROCHURE OR PACKET FOLDER AND TURNED OVER TO THE ARCHITECT FOR REVIEW AND SUBSEQUENT DELIVERY TO THE OWNER.

1. ALL WARRANTIES AND GUARANTEES AND MANUFACTURER'S DIRECTIONS ON EQUIPMENT AND MATERIAL COVERED BY THE CONTRACT INCLUDING THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF THE MANUFACTURER'S REPRESENTATIVE.

2. APPROVED FIXTURE BROCHURES, WIRING DIAGRAMS AND CONTROL DIAGRAMS (ORIGINAL DATA, NO COPIES).

3. COPIES OF APPROVED SHOP DRAWINGS.

4. OPERATING INSTRUCTIONS FOR HEATING AND COOLING AND OTHER MECHANICAL SYSTEM. OPERATING INSTRUCTIONS SHALL ALSO INCLUDE RECOMMENDED MAINTENANCE AND SEASONAL CHANGEOVER PROCEDURES.

5. TEST AND BALANCE REPORTS REQUIRED BY THESE SPECIFICATIONS.

6. ANY AND ALL OTHER DATA AND/OR DRAWINGS REQUIRED DURING CONSTRUCTION.

7. REPAIR PARTS LISTS OF ALL MAJOR ITEMS AND EQUIPMENT INCLUDING NAME, ADDRESS AND TELEPHONE NUMBERS OF LOCAL SUPPLIER OR AGENT.

8. VALVE TAG CHARTS AND DIAGRAMS.

C. ALL OF THE ABOVE DATA SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW AT SUCH TIME AS THE CONTRACTOR SUBMITS HIS LAST ESTIMATE PRIOR TO HIS FINAL PAYMENT, BUT IN NO CASE, LESS THAN TWO WEEKS BEFORE FINAL INSPECTION.

GENERAL MECHANICAL NOTES

V RETURN AIR WILL BE TAKEN THROUGH RETURN AIR GRILLES.

VI LOCATIONS AND SIZES OF EXISTING SYSTEMS ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING, DUCTS, ETC. SHALL BE VERIFIED ON THE JOB BY THE CONTRACTOR.

VII CONTRACTOR SHALL INSTALL MECHANICAL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH ALL OTHER TRADES. HOLD DUCTWORK TIGHT AGAINST UNDERSIDE OF STRUCTURE ABOVE.

VIII ALL DUCT SIZES ARE "AIR SIZE". SHEET METAL TO BE INCREASED TO ACCOMMODATE DUCT LINER, IF APPLICABLE.

IX TAPE AND SEAL ALL ROUND DUCT CONNECTIONS TO BE PERMANENTLY AIR TIGHT.

X SPIN-IN COLLARS "ONLY" SHALL BE SUITABLE FOR CONNECTION TO RECTANGULAR DUCTWORK AND SHALL HAVE VOLUME DAMPERS. "DOVE-TAIL" TAPS WILL NOT BE ALLOWED.

XI RIGID SHEET METAL DUCT SHALL BE RUN WITHIN SIX FEET OF DIFFUSERS. FLEX DUCT SHALL BE SUPPORTED AS OFTEN AS NECESSARY TO PREVENT KINKS, FOLDS OR OTHER OBSTRUCTIONS TO AIR FLOW. CEILING GRID AND ASSOCIATED SUPPORTS MAY NOT BE USED TO SUPPORT DUCTWORK. PROVIDE RIGID 90 DEGREE ELBOWS ON DIFFUSER NECKS.

XII EQUIPMENT CAPACITIES AND CHARACTERISTICS SHALL BE AS SCHEDULED ON THE DRAWINGS.

XIII EXISTING CEILING DIFFUSERS MAY BE REUSED AND RELOCATED AS NECESSARY UNLESS NOTED OTHERWISE OR SIZE PROHIBITS USE.

XIV NEW CEILING DIFFUSERS TO BE TITUS, METALAIRE OR KRUEGER AND SUIT THE SPECIFIED SERVICE AND CEILING TYPE UNLESS NOTED OTHERWISE ON PLANS. COORDINATE WITH ARCHITECTURAL PLANS.

XV CEILING RETURN AIR GRILLES SHALL BE TITUS, NAILOR, METALAIRE OR KRUEGER.

XVI EXHAUST REGISTERS SHALL BE TITUS, NAILOR, METALAIRE OR KRUEGER AND EQUAL TO TITUS MODEL 3FL.

XVII ALL NEW FLOOR PENETRATIONS AND PENETRATIONS THROUGH RATED WALLS SHALL BE FIRE SAFED.

XVIII RE-POUR ALL ABANDONED FLOOR PENETRATIONS.

XIX ALL DIFFUSERS SHALL BE FURNISHED WITH SPIN-IN COLLAR. VOLUME DAMPER AND 6' OF FLEXIBLE DUCT.

XX CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL BY THE ENGINEER ALL MAJOR ITEMS OF MATERIALS AND EQUIPMENT.

GENERAL FIRE PROTECTION NOTES

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GENERAL NOTES - PLUMBING

A. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.

B. INDICATED LOCATIONS ARE APPROXIMATE.

C. COORDINATE WITH OWNER AND PERSONNEL THE SHUT-DOWN OF THE EXISTING SITE UTILITIES.

D. ROUTE ALL PLUMBING PIPING AS TIGHT AS POSSIBLE TO STRUCTURE. PIPING SHALL BE INSTALLED PARALLEL/PERPENDICULAR TO WALLS AND COLUMN LINES.

E. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.

F. COORDINATE THE EXACT LOCATION OF MECHANICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.

G. COORDINATE ALL NEW WORK WITH ALL TRADES. WORK SHOWN ON THESE DRAWINGS ARE INTENDED TO PROVIDE THE OVERALL ENGINEERING DESIGN CONCEPT AND DOES NOT PROVIDE FOR RELOCATIONS, OFFSETS, ETC., THAT ARE REQUIRED BY THE COORDINATION OF TRADES. THIS ADDITIONAL WORK SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

H. IT IS THE REQUIREMENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF PIPING AND PROVIDE OFFSETS IN PIPING AS REQUIRED TO MEET THIS REQUIREMENT.

I. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.

J. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON CONCRETE HOUSEKEEPING PADS. GENERAL CONTRACTOR SHALL PROVIDE HOUSEKEEPING PADS, COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

K. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS. CONTRACTOR SHALL SCHEDULE AND PERFORM WORK IN SEQUENCE WITH THE PHASING PLAN.

L. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.

M. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.

N. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.

O. LOCATE ISOLATION VALVES FOR EQUIPMENT AS CLOSE TO THE MAIN AS POSSIBLE.

P. PROVIDE CLEANOUTS AT THE BASE OF ALL STORM AND SANITARY STACKS.

Q. ALL SANITARY SEWER AND STORM DRAIN SYSTEM WALL CLEANOUTS SHALL BE PLACED AT 18" AFF UNLESS OTHERWISE NOTED.

R. COORDINATE ALL FIRE PROTECTION SPRINKLER LOCATIONS AND MOUNTING STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.

S. DO NOT ROUTE PIPING INSIDE ELECTRICAL AND COMMUNICATION ROOMS. IN UNAVOIDABLE INSTANCES, ALL EQUIPMENT SHALL BE PROTECTED FROM OVERHEAD PIPING WITH DRAIN PANS. ROUTE DRAIN FROM DRAIN PANS TO NEAREST FLOOR DRAIN IN MECHANICAL AREAS. WHERE NO FLOOR DRAIN IS ACCESSIBLE ROUTE AS INDIRECT WASTE TO PLUMBING FIXTURE AS INDICATED ON CONTRACT DRAWINGS, OR NEAREST LAVATORY TAILPIECE. PROVIDE SENSOR IN DRAIN PAN TO SEND ALARM TO BAS IN CASE OF LEAKAGE INTO PAN.

T. EACH SUBCONTRACTOR SHALL PROVIDE ADEQUATELY SIZED ACCESS DOORS TO PROVIDE REQUIRED ACCESS THROUGH HARD SURFACES TO THEIR WORK REQUIRING ACCESS (ANY FLOW DEVICES, VALVES, ETC.). SUBCONTRACTOR IS ALSO REQUIRED TO PROVIDE ADEQUATE LOCATION INFORMATION SO ACCESS CAN BE INSTALLED BY INTERIORS SUBCONTRACTOR.

U. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL TYPES.

V. ALL PLUMBING PIPING SHALL BE IDENTIFIED IN ACCORDANCE WITH THE SPECIFICATIONS.

W. SLOPE AND ARRANGE WATER PIPING SYSTEMS TO ESTABLISH HIGH POINTS FOR AIR ELIMINATION AND LOW POINTS TO PERMIT PROPER DRAINING OF EACH LINE.

X. COORDINATE ALL PIPING FLOOR PENETRATIONS WITH STRUCTURAL.

Y. SPACE LOCATIONS FOR MATERIALS, EQUIPMENT AND FIXTURES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR FIXTURES OF A PARTICULAR MANUFACTURER WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND FIXTURES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.

Z. PIPE PENETRATIONS THROUGH WALLS SHALL MAINTAIN THE CONSTRUCTION/FIRE RATING OF THE WALL.

AA. REFER TO STRUCTURAL ENGINEER FOR METHOD OF PIPE PENETRATIONS THROUGH STRUCTURAL MEMBERS (BEAMS, JOISTS, ...).

DEMOLITION

A. ALL CAPPED SANITARY WASTE, VENTS AND DOMESTIC WATER PIPING THAT ARE NOT BEING USED, NEED TO BE REMOVED BACK TO THE MAINS AND CAPPED.

B. PROVIDE ADDITIONAL VALVES, FITTINGS AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE AND INSIDE OF THE AREA WORK.

C. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.

D. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE.

E. INFORMATION PROVIDED ON THESE DRAWINGS HAVE BEEN TAKEN FROM DESIGN DRAWING AND FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.

F. WHERE EXISTING WALLS ARE DEMOLISHED, REMOVE ALL EXISTING PLUMBING FIXTURES AND THEIR ASSOCIATED PIPING BACK TO THE POINT OF ORIGINATION. ALL EXISTING PIPING THAT WAS SHUT DOWN DURING DEMOLITION SHALL BE TURNED ON AND CHECKED FOR LEAKS.

G. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL WORK.

H. IF DEMOLITION IS REQUIRED TO INSTALL AN ITEM, THE CONTRACTOR SHALL RESTORE THE AREA TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING.

I. A DEVICE OR PIPING WITH AN 'X' INDICATES EXISTING TO BE REMOVED INCLUDING ALL ASSOCIATED VALVES AND FIXTURES. PIPING TO BE VALVED AND CAPPED AT POINT OF ORIGIN.

J. CONTRACTOR SHALL REMOVE ALL FIXTURES, ASSOCIATED PIPING AND EQUIPMENT INDICATED TO BE REMOVED AND/OR RELOCATED UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL ALL NECESSARY FIXTURES, EQUIPMENT AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE TO ALL "EXISTING TO REMAIN" FIXTURES AND EQUIPMENT THAT MAY BE INTERRUPTED DURING DEMOLITION.

K. WHERE EXISTING MECHANICAL EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED PLUMBING TO THE EQUIPMENT AND THEIR ASSOCIATED PIPING BACK TO THE POINT OF ORIGINATION AND VALVE & CAP.

L. ITEMS REMOVED AND NOT REINSTALLED OR RETURNED TO OWNER SHALL BE DISPOSED OF LEGALLY (COORDINATE WITH OWNER FOR THE DISPOSAL).

M. ALL EXISTING PLUMBING RISER(S) LOCATED IN THE DEMOLISHED WALLS/CHASES MUST BE RELOCATED TO AN APPROVED LOCATION BY THE ARCHITECT THEN RECONNECTED ON ADJACENT FLOORS.

N. ANY FLOOR DRAINS OR FLOOR SINKS NOT REQUIRED SHALL BE REMOVED COMPLETELY. DRAINS ON THE GROUND FLOOR SHALL BE PERMANENTLY PLUGGED WITH GROUT AND CUT BACK TO ACCEPT NEW FLOORING MATERIAL.

RENOVATION

A. COORDINATE ALL PIPING ROUTING WITH OTHER TRADES BEFORE INSTALLING PIPING. OFFSET PIPING WHERE POSSIBLE, TO COORDINATE WITH OTHER TRADES.

B. CONNECT VENT AND WATER FOR NEW FIXTURES TO NEAREST PIPING IN CEILING SPACE ON THIS FLOOR. CONNECT WASTE FOR NEW FIXTURES TO NEAREST PIPING IN CEILING SPACE OF FLOOR BELOW

C. WHERE POSSIBLE, REUSE EXISTING FLOOR PENETRATIONS AFTER REVIEW AND APPROVAL BY ARCHITECT. LOCATIONS SHOWN ON THESE DRAWINGS REFLECT DESIGN INTENT AND ARE BASED ON AS-BUILT DRAWINGS MADE AVAILABLE TO THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL LOCATIONS OF NEW FLOOR PENETRATIONS BASED ON FIELD INVESTIGATION AND VERIFICATION, PRIOR TO STARTING NEW WORK.

D. WHERE UNAVOIDABLE, PIPE ROUTING MAY REQUIRE BORING THROUGH STRUCTURAL GIRDERS. CONTRACTOR SHALL X-RAY GIRDER AND PREPARE A DRAWING AND SUPPORTING DOCUMENTS SHOWING THE PROPOSED BORE LOCATIONS FOR PIPING. SUBMIT THIS PROPOSED PIPING LAYOUT FOR ENGINEER/ARCHITECT/OWNER REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. PROCEED WITH NEW WORK ONLY WITH WRITTEN STATEMENT TO PROCEED FROM ARCHITECT OR STRUCTURAL ENGINEER.

E. FOR ALL EXISTING FLOOR PENETRATIONS NOT USED, CUT PIPING JUST BELOW FLOOR LEVEL, PLUG PIPING WATER-TIGHT AND FILL WITH GROUT. REPAIR AND PATCH FLOOR TO MATCH EXISTING.

F. CONFIRM WITH ARCHITECTURAL DRAWINGS THE REQUIRED MOUNTING HEIGHTS PRIOR TO INSTALLATION/RE-INSTALLATION OF FIXTURES.

G. ALL CONNECTIONS TO EXISTING PIPING SHALL BE MADE TO SAME SIZE OR LARGER EXISTING PIPING. IF IT IS DETERMINED BY FIELD INVESTIGATION THAT THE EXISTING PIPE SIZE TO BE CONNECTED TO IS SMALLER THAN THE NEW PIPE SIZE, NOTIFY ARCH/ENGR BEFORE PROCEEDING WITH WORK.

H. CONNECTIONS TO EXISTING SANITARY PIPING IS BASED ON EXISTING DRAWINGS AND LIMITED FIELD INVESTIGATION DUE TO INACCESSIBLE AREAS. PIPING LESS THAN 4" SHALL HAVE A 1/4" SLOPE PER FOOT, PIPING 4" AND LARGER A 1/8" SLOPE PER FOOT. IF IT IS DETERMINED DURING CONSTRUCTION/FIELD SURVEY THAT THE PIPE ROUTING CAN NOT TIE-IN TO EXISTING SANITARY PIPING AS SHOWN ON THESE DRAWINGS BECAUSE OF ELEVATION DIFFERENCES, CONTRACTOR SHALL PREPARE AN ADJUSTED PIPING ROUTING AND CONNECTION TO EXISTING PIPING BASED ON ACTUAL FIELD CONDITIONS. SUBMIT THIS PROPOSED PIPING LAYOUT FOR ENGINEER/ARCHITECT/OWNER REVIEW PRIOR TO CONTINUING WITH CONSTRUCTION.

FIRE PROTECTION NOTES

A. FIRE PROTECTION CONTRACTOR SHALL REFER TO THE PLUMBING DRAWINGS FOR SCOPE OF WORK INCLUDING THE GENERAL NOTES ON THIS SHEET.

B. THE BUILDING'S FIRE PROTECTION SYSTEM MUST REMAIN IN SERVICE DURING CONSTRUCTION. FIRE PROTECTION ENGINEER IS RESPONSIBLE FOR EXTENT OF DEMOLITION, RELOCATION, AND RENOVATION OF THE FIRE PROTECTION SYSTEM.

C. RENOVATION AND DEMOLITION SCOPE OF WORK FOR FIRE PROTECTION SYSTEM IS THE RESPONSIBILITY OF THE FIRE PROTECTION ENGINEER.

D. DESIGN OF THE SPRINKLER SYSTEM SHALL BE UNDER DIRECT SUPERVISION OF AN RME (RESPONSIBLE MANAGING EMPLOYEE) EXPERIENCED IN DESIGN OF THIS WORK AND LICENSED IN THE STATE OF COLORADO. ALL DESIGN SUBMITTAL DOCUMENTS SHALL BEAR THE RME's SIGNED AND DATED REGISTRATION NUMBER. THE SYSTEM SHALL BE INSTALLED BY A FIRM HAVING MINIMUM THREE YEARS EXPERIENCE REGULARLY ENGAGED IN THE DESIGN AND INSTALLATION OF AUTOMATIC FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND THE STATE OF COLORADO FIRE MARSHALL'S OFFICE. EVIDENCE TO SUPPORT THE ABOVE REQUIREMENTS SHALL BE SUBMITTED WITH SHOP DRAWINGS. WORKING PLANS SHALL BE SEALED BY AN ENGINEER REGISTERED BY THE COLORADO STATE BOARD FOR PROFESSIONAL ENGINEERS IN THE FIRE PROTECTION SPECIALTY.

E. DEMOLISH/RELOCATE/PROVIDE NEW SPRINKLER HEADS AS REQUIRED BY THE RENOVATION/EXPANSION SPACE FLOOR PLANS. FIRE PROTECTION SYSTEM FOR THE BUILDING MUST REMAIN IN SERVICE DURING CONSTRUCTION.

F. PROVIDE STANDARD QUICK RESPONSE SPRINKLER HEADS FOR ALL AREAS, UNLESS OTHERWISE NOTED.

G. COORDINATE SPRINKLER AND FIRE MAIN LOCATIONS WITH ALL TRADES.

H. COORDINATE ALL FIRE PROTECTION SPRINKLER LOCATIONS AND MOUNTING STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.

PROJECT DESIGN CRITERIA

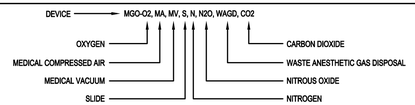
LOCATION:	
CITY/STATE	AURORA, COLORADO
APPLICABLE CODES:	
BUILDING	2009 IBC
MECHANICAL	2009 IMC
PLUMBING	2009 IPC
ENERGY	2009 IECC
ELECTRICAL	2011 NEC
LATITUDE:	
DEG. N. LAT.	39.69
ELEVATION:	
FT. ABOVE SEA LEVEL	5514

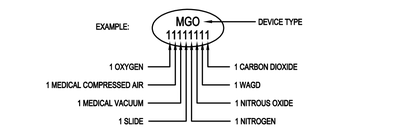
MEDICAL GAS SYMBOLS

SYMBOL	DESCRIPTION
O2	MEDICAL OXYGEN PIPING
MA	MEDICAL AIR PIPING
MV	MEDICAL VACUUM PIPING
WAGD	WASTE ANESTHETIC GAS DISPOSAL PIPING
N	MEDICAL NITROGEN PIPING
N2O	MEDICAL NITROUS OXIDE PIPING
CO2	CARBON DIOXIDE PIPING
	MEDICAL GAS PIPING DROPS IN WALL FULL SIZE
MGO	MEDICAL GAS OUTLETS
AA	AREA ALARM
MA	MASTER ALARM
ZVB	ZONE VALVE BOX
	MASTER ALARM SENSOR
	AREA ALARM SENSOR
	LOCKABLE TYPE BALL VALVE

MEDICAL GAS LEGEND

MAP	= MASTER ALARM PANEL	MED AIR	= MEDICAL COMPRESSED AIR
MGB	= MEDICAL GAS CEILING BOOM	MV	= MEDICAL VACUUM
MGC	= MEDICAL GAS CEILING COLUMN	O2	= OXYGEN
MGD	= MEDICAL GAS DROP	S	= SLIDE
MGH	= MEDICAL GAS HEADWALL	AAP	= AREA ALARM PANEL
MGO	= MEDICAL GAS WALL OUTLET	ZVB	= ZONE VALVE BOX
MGP	= MEDICAL GAS PEDESTAL	NCP	= NITROGEN CONTROL PANEL
MVE	= MEDICAL GAS VACUUM EXHAUST	N	= NITROGEN
ME	= MEDICAL EQUIPMENT COMPRESSED AIR (FOR BRAKES ON MEDICAL BOOMS)	N20	= NITROUS DIOXIDE GAS
		CO2	= CARBON DIOXIDE GAS
		WAGD	= WASTE ANESTHETIC GAS DISPOSAL





MEDICAL GAS NOTES:

A. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF MEDICAL GAS OUTLETS, ZONE VALVE BOXES AND ALARM PANELS.

B. NOT ALL GASES ARE TO BE USED AT EACH LOCATION. THE GAS ORDER SHOWN IN THE EXAMPLE IS TYPICAL FOR ALL OUTLETS.

C. COORDINATE MEDICAL GAS PIPE ROUTINGS WITH ALL OTHER TRADES BEFORE INSTALLATION.

TYPICAL MOUNTING HEIGHTS FOR MEDICAL GAS DEVICES*:

WALL OUTLETS:	5' (60 INCHES) TO THE CENTER OF THE OUTLET
ZONE VALVE BOX:	5'-6" (66 INCHES) TO THE TOP OF THE ZONE VALVE BOX
AREA ALARM:	5'-6" (66 INCHES) TO THE TOP OF THE ALARM
MASTER ALARM:	5'-6" (66 INCHES) TO THE TOP OF THE ALARM
NITROGEN CONTROL CABINET:	5'-2" (62 INCHES) TO THE BOTTOM OF THE PANEL
FIXED CEILING COLUMN:	5'-3" (63 INCHES) TO THE BOTTOM OF THE COLUMN
RETRACTABLE CEILING COLUMN:	5'-10" (70 INCHES) TO THE BOTTOM OF THE COLUMN
CEILING HOSE DROP:	6'-4" (76 INCHES) TO THE BOTTOM OF THE HOSE
ASSEMBLY CEILING ARMS/BOOMS:	CONSULT MANUFACTURERS RECOMMENDATIONS

* ALL DIMENSION HEIGHTS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATION.

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

PLUMBING SYMBOLS

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATICALLY AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER (TEMP. AS NOTED)
	DOMESTIC HOT WATER RETURN (TEMP. AS NOTED)
HP	HIGH PRESSURE COLD WATER
	COLD OR HOT REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ)
	EXISTING PIPING TO BE REMOVED
	PIPING TO BE ELECTRICALLY HEAT TRACED
SS	SANITARY SEWER PIPING (SOIL OR WASTE)
GW	GREASY WASTE SEWER PIPING
	SANITARY VENT PIPING
SSD	SUB-SOIL DRAIN PIPING, FOOTING DRAIN PIPING
AW	ACID WASTE PIPING
AV	ACID VENT PIPING
IW	INDIRECT WASTE
SED	SEWAGE EJECTOR DISCHARGE PIPING (PUMPED SANITARY)
CD	CONDENSATE DRAIN PIPING
D	DRAIN PIPING
	CONNECT NEW TO EXISTING
SD	STORM DRAIN PIPING
OD	STORM OVERFLOW DRAIN PIPING
CA	COMPRESSED AIR PIPING
SPD	SUMP PUMP DISCHARGE PIPING (PUMPED STORM WATER)
F	FIRE PROTECTION (STANDPIPE, SPRINKLER, SERVICE)
LPG/MPG	NATURAL GAS PIPING (LOW PRESSURE GAS/MEDIUM PRESSURE GAS)
SP	SPRINKLER PIPING (SPRK.)
DSP	DRY SPRINKLER PIPING
PASP	PRE-ACTION SPRINKLER PIPING
	GATE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	GLOBE VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	GAS COCK / PLUG VALVE
	SOLENOID VALVE
	PRESSURE REGULATION VALVE (PRV)
AQ	AQUASTAT
	CHECK VALVE
	CHECK VALVE WITH AUTOMATIC BALL DRIP
	VALVE IN VERTICAL
R	GAS PRESSURE REGULATOR VALVE
	BALANCING VALVE
	STRAINER WITH BLOW-OFF VALVE
	STRAINER
SA-A	SHOCK ARRESTOR SA-(A)
V	VACCUUM BREAKER
HD	HUB DRAIN
FD	FLOOR DRAIN
FS	FLOOR SINK
	2-WAY CLEANOUT (GRADE) (GCO)
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER WITH SHUT-OFF COCK
	HOSE BIBB (HB) OR WALL HYDRANT (WH)
	YARD HYDRANT
	SLEEVE THRU WALL
	EXPANSION LOOP
FCO GCO	FLOOR CLEANOUT OR GRADE CLEANOUT
RD	ROOF DRAIN
OD	OVERFLOW ROOF DRAIN

SYMBOL	DESCRIPTION
	DOWNSPOUT NOZZLE (18"A.F.F.)
WCO	WALL CLEANOUT
CO CO	CLEANOUT PLUG
OS Y	OS & Y VALVE SUPERVISED (HORIZ. POSITION/VERT. POSITION)
FCA	SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY (FCVA)
	DOUBLE CHECK VALVE ASSEMBLY (DCVA) WITH OS & Y VALVES SUPERVISED
FS	FLOW SWITCH
	FIRE HOSE VALVE
	SIAMESE FIRE DEPARTMENT CONNECTION
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	CAP OUTLET OR PLUGGED OUTLET
	UNION
	CAP SANITARY SEWER OR STORM PIPING

FIRE PROTECTION SYMBOLS

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATICALLY AND MAY NOT BE TO SCALE.

F	FIRE PROTECTION (STANDPIPE, SPRINKLER, SERVICE)
SP	SPRINKLER PIPING (SPRK.)
DSP	DRY SPRINKLER PIPING
PASP	PRE-ACTION SPRINKLER PIPING
FCA	SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY (FCVA)
	HOSE VALVE IN CABINET
FS	FLOW SWITCH
TS	TAMPER SWITCH VALVE
	FIRE HOSE VALVE
	SIAMESE FIRE DEPARTMENT CONNECTION (FLUSH MOUNTED)
	SIAMESE FIRE DEPARTMENT CONNECTION (EXPOSED)
	ROOF MANIFOLD
	WET SPRINKLER ALARM VALVE
	DRY SPRINKLER ALARM VALVE
	AUTOMATIC SPRINKLER RISER

PLUMBING ABBREVIATIONS

ABV	ABOVE	NC	NORMALLY CLOSED
AFF	ABOVE FINISH FLOOR	OD	OVERFLOW DRAIN
AFG	ABOVE FINISH GRADE	P-COND	PUMPED CONDENSATE
A/C	ABOVE CEILING	PD	PLANTER DRAIN
AP	ACCESS PANEL OR DOOR	PRV	PRESSURE REDUCING VALVE
AC	AIR CHAMBER	PW	PURIFIED WATER
AD	AREA DRAIN	PWC	PURIFIED WATER RECIRC
AW	ACID WASTE	RI & C	ROUGH-IN AND CONNECT
BT	BATHTUB	ROR	REVERSE OSMOSIS RETURN WATER
BFF	BELOW FINISH FLOOR	ROS	REVERSE OSMOSIS SUPPLY WATER
BF	BELOW FLOOR	RPPBP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER.
BG	BELOW GRADE		
BV	AUTOMATIC BALANCING VALVE	SH	SHOWER
CCP	COIL CONDENSATE PUMP	SK	SINK
CS	CLINICAL SINK	SMR	SNOW MELT RETURN
CW	DOMESTIC COLD WATER	SMS	SNOW MELT SUPPLY
HW	DOMESTIC HOT WATER	S.O.	STORM OVERFLOW
HWRC	DOMESTIC HOT WATER RETURN	SS	SANITARY SEWER
DS	DOWNSPOUT	SS-x	SERVICE SINK DESIGNATOR WITH NUMBER
DF	DRINKING FOUNTAIN		
E	EXISTING	SV	SANITARY VENT
EOSC	EMERGENCY OXYGEN SUPPLY CONNECTION	TP	TRAP PRIMER
		TW	TEMPERED WATER
EWC	ELECTRIC WATER COOLER	V	VENT
EWH	ELECTRIC WATER HEATER	VTR	VENT THROUGH ROOF
FCA	FIRE SPRINKLER CONTROL VALVE ASSEMBLY	W	SANITARY WASTE
		WC	WATERCLOSET
FCO	FLOOR CLEANOUT	WCO	WALL CLEANOUT
FD	FLOOR DRAIN	YCO	YARD CLEANOUT
FDC	FIRE DEPARTMENT CONNECTION	COND	CONDENSATE
FDV	FIRE DEPARTMENT VALVE	FOO	FUEL OIL ?
FF	FINISH FLOOR	FOR	FOEL OIL RETURN
FFD	FUNNEL FLOOR DRAIN	FOS	FUEL OIL SUPPLY
FFE	FINISH FLOOR ELEVATION		
FHC	FIRE HOSE CABINET		
FLR	FLOOR		
FRS	FLUSHING RIM SINK		
FS	FIRE SPRINKLER		
GC	GENERAL CONTRACTOR		
GCO	GRADE CLEANOUT		
IE	INVERT ELEVATION		
INV	INVERT		
IW	INDIRECT WASTE PIPING		
LCW	LAB COLD WATER		
LHW/SOLAR	LAB HOT WATER		
LV	LAVATORY		
MH	MANHOLE		
MS	MOPSINK		
NPW	NON-POTABLE/DOWNSTREAM OF A BACKFLOW PREVENTER		

RSN: *1063633*
Permit #: *2015-1025782-LT*

FIXTURE SCHEDULE

HCA DESIG.	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
P406	SINK SINGLE COMPARTMENT SENSOR OPERATED ADA COMPLIANT	2"	2"	½"	½"	SINK: THE SINK SHALL BE INCLUDED (INTEGRAL) WITH THE COUNTERTOP AND SHALL BE DRILLED FOR THE PROPER FAUCET INDICATED BELOW FAUCET:ZURN MODEL No. Z89200-XL-J-CP8 ADA COMPLIANT, BATTERY POWERED, CHROME PLATED SENSOR FAUCET. FLOW RATE 1.5 GPM VANDAL RESISTANT LAMINAR FLOW, OCCUPANT DETECTION INFRARED CONVERGENCE-TYPE PROXIMITY SENSOR 30 SECOND TIME OUT FEATURE, SPOUT MODULE CHROME PLATED CAST BRASS, IN-LINE FILTER AND 8" COVER PLATE. MIXING VALVE: WILKINS MODEL No. ZW3870XLTC POINT OF USE THERMOSTATIC MIXING VALVE, ASSE 1070 LISTED. STRAINER/TAILPIECE: ZURN MODEL No. Z8746 CHROME PLATED BRASS STRAINER WITH 1-1/4" 17 GAUGE OFFSET TAILPIECE. P-TRAP: ZURN MODEL No. Z87202-PC CAST BODY ADJUSTABLE P-TRAP WITH 1-1/2" TUBULAR WALL BEND AND FLANGE. STOPS AND RISERS: ZH8824-XL-LR LEAD FREE CHROME PLATED SOLID BRASS HEAVY DUTY ANGLE STOPS WITH ROUND WHEEL HANDLES OR LOOSE KEY, TWO FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS COMPLETE WITH TWO CHROME PLATED STEEL FLANGES.

The Medical Center of Aurora
Health ONE

TRIAGE WAITING METAL DETECTOR

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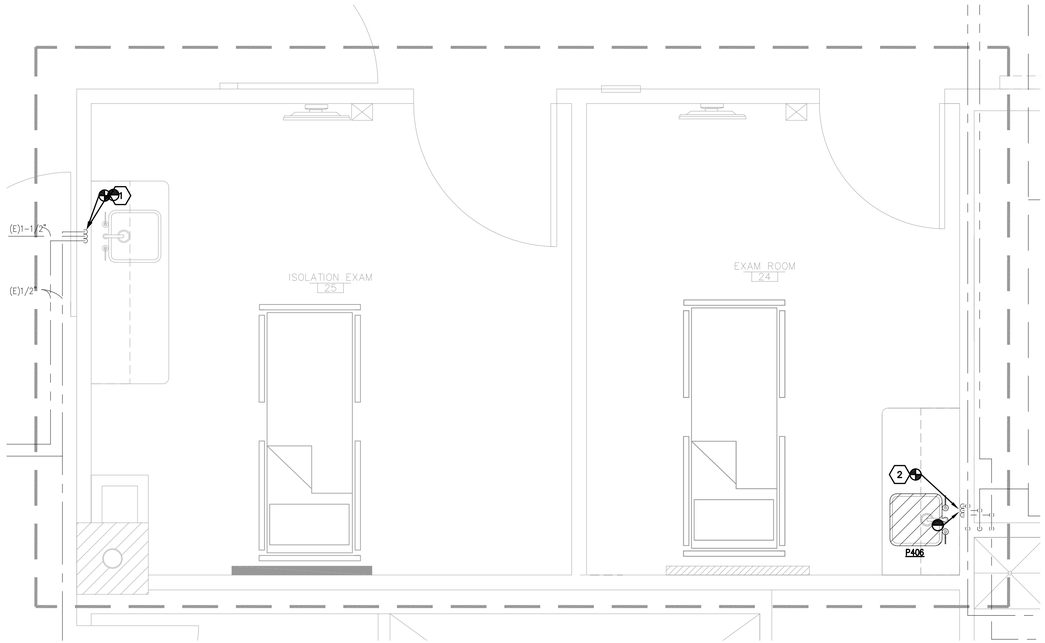
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COLORADO LICENSED
47964
10/26/15
PROFESSIONAL ENGINEER

PROJECT NO.:	14-04
DRAWN BY:	DG/SM
CHECKED BY:	WS
SCALE:	
DATE:	10.26.15
ISSUED FOR:	CONSTRUCTION
REVISIONS:	

SHEET TITLE:
PLUMBING LEGENDS, GENERAL NOTES, AND ABBREVIATIONS

SHEET NO.:
P-0.0
OF



NORTH

PLUMBING PLAN - NEW
1/2" = 1'

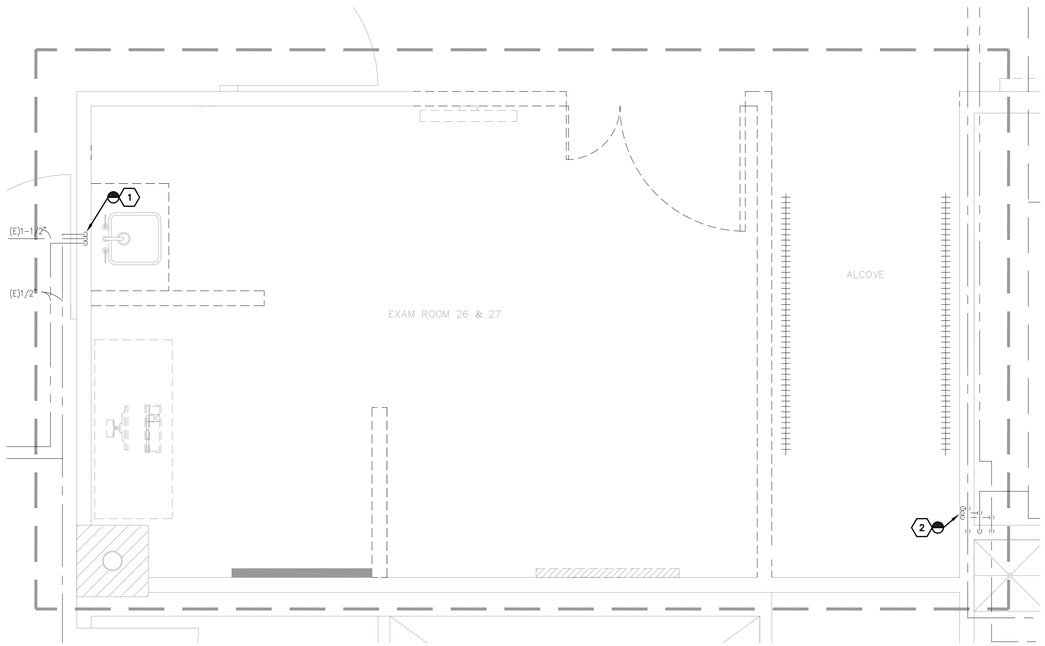
GENERAL NOTES

A. REFER TO SHEET P-0.0 FOR LEGENDS, GENERAL NOTES, AND ABBREVIATIONS.

LEGEND NOTES

1. CONNECT EXISTING PLUMBING TO RELOCATED SINK.
2. CONNECT EXISTING PLUMBING TO NEW SINK.

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.



NORTH

PLUMBING PLAN - DEMOLITION
1/2" = 1'

GENERAL NOTES

A. REFER TO SHEET P-0.0 FOR LEGENDS, GENERAL NOTES, AND ABBREVIATIONS.

LEGEND NOTES

1. REMOVE EXISTING SINK AND PREPARE FOR CONNECTION TO RELOCATED EXISTING SINK.
2. PREPARE EXISTING CONNECTION TO NEW SINK.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
Date: *Nov 30, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *2015-1025782-LT*

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HealthONE

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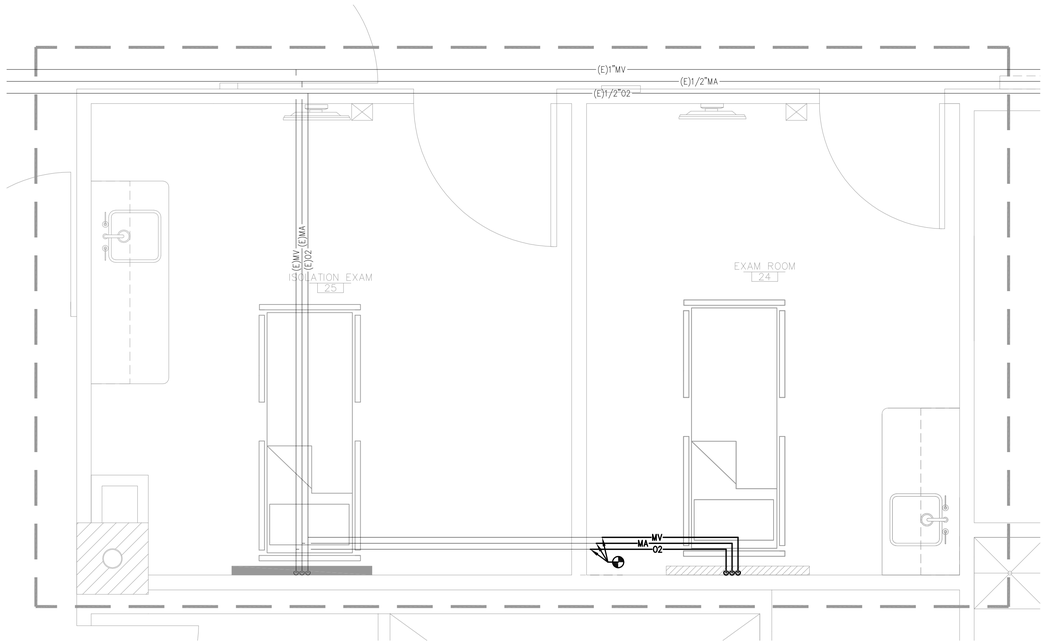
SHEET TITLE:

PLUMBING PLANS DEMOLITION AND NEW

SHEET NO.:

P-1.0

OF

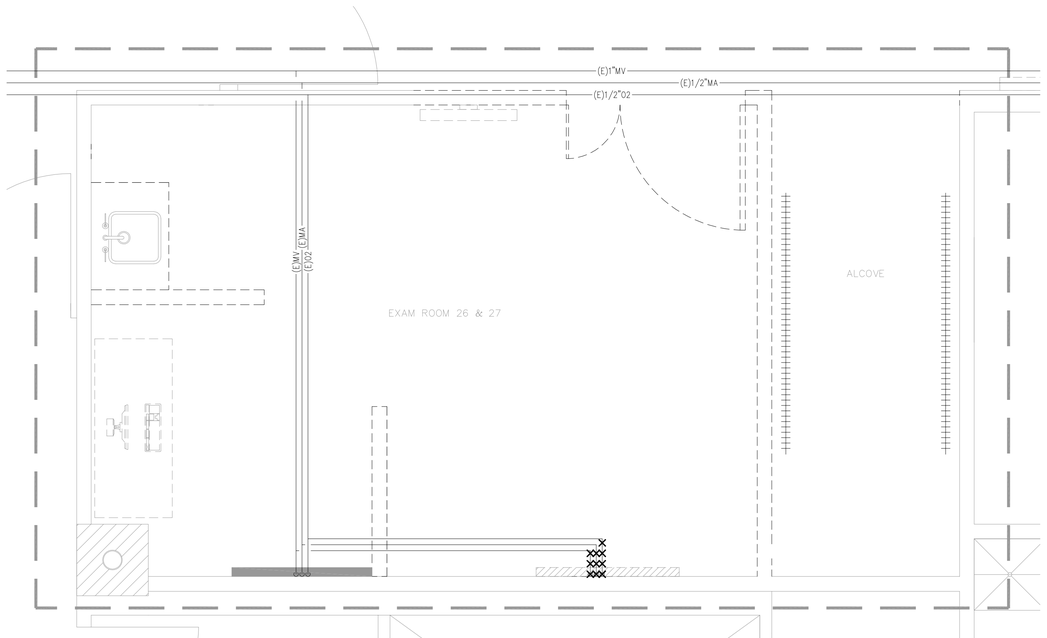


NORTH

PLUMBING PLAN - NEW
1/2" = 1'

GENERAL NOTES

A. REFER TO SHEET P-0.0 FOR LEGENDS, GENERAL NOTES, AND ABBREVIATIONS.



NORTH

PLUMBING PLAN - DEMOLITION
1/2" = 1'

GENERAL NOTES

A. REFER TO SHEET E-0.0 FOR LEGENDS, GENERAL NOTES, AND ABBREVIATIONS.

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
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SHEET TITLE:

PLUMBING PLANS
DEMOLITION AND NEW

SHEET NO.:

P-2.0

OF

ELECTRICAL ABBREVIATIONS

AAP	AREA ALARM PANEL	MH	MANHOLE
AC	ABOVE FINISHED COUNTER	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MTD	MOUNT OR MOUNTED
ATS	AUTOMATIC TRANSFER SWITCH	N	NEW DEVICE
BFC	BELOW FINISHED CEILING	NC (N.C.)	NORMALLY CLOSED
BOF	BOTTOM OF FIXTURE	NEC	NATIONAL ELECTRIC CODE
C	CONDUIT	NF	NONFUSED
CB,C/B OR CKT BKR	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
		NL	NIGHT LIGHT
CKT	CIRCUIT	NO (N.O.)	NORMALLY OPEN
CCTV	CLOSED CIRCUIT T.V.	PB	PULL BOX
CLG	CEILING	PNL	PANEL
CUH	CABINET HEATER	PWR	POWER
EC	EMPTY CONDUIT	R	REMOVE DEVICES
ELEC	ELECTRIC	RL	RELOCATED DEVICE
E	EMERGENCY	RCPT(S) OR	RECEPTACLE(S)
EMS	ENERGY MANAGEMENT SYSTEM	RECEPT	
EGC	EQUIPMENT GROUNDING CONDUCTOR	RF	RETURN AIR FAN
EWC	ELECTRIC WATER COOLER	SEF	SMOKE EXHAUST FAN
EX	EXISTING	SF	SUPPLY AIR FAN
F	FUSE	SO (S.O.)	SPACE ONLY
FA	FAN COIL UNIT	SP	SPARE
FMT	FIXTURE	ST (S.T.)	SHUNT TRIP
FLR	FLOOR	SW	SWITCH
FLUOR	FLUORESCENT	TEL	TELEPHONE
FTP, FTS	FAN TERMINAL UNIT	TF	TRANSFER FAN
FTU	FAN TERMINAL UNIT	TP	TAMPER PROOF
FUT	FUTURE	TV	TELEVISION
G, GND	GROUND (EQUIPMENT)	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GEF	GENERAL EXHAUST FAN		
GEN	GENERATOR	UF	UNDERFLOOR
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
HP	HORSE POWER	UH	UNIT HEATER
HPF	HIGH POWER FACTOR	UNO (U.N.O.)	UNLESS NOTED OR INDICATED OTHERWISE
HWAT	HEAT TRACE		
IC	INTERRUPTING CAPACITY	V	VOLTAGE
ICAND	INCANDESCENT	VFD	VARIABLE FREQUENCY DRIVE
IG	ISOLATED GROUND	VP	VAPOR PROOF
IR	INFRARED SENSOR	VV	VARIABLE VOLUME UNIT
JB	JUNCTION BOX	W	WIRE
KEF	KITCHEN EXHAUST FAN	W	WITH
LTG	LIGHTING	WG	WIRE GUARD
LTS	LIGHTS	WP	WEATHER PROOF
LV	LOW VOLTAGE	WT	WATER TIGHT
MATV	MASTER ANTENNA	XFMR	TRANSFORMER
MCB	MAIN CIRCUIT BREAKER	*xx	MOUNTING HEIGHT IN INCHES. AFF UNO.
MFR	MANUFACTURER		
MDP	MAIN DISTRIBUTION PANEL		

GENERAL NOTATIONS AND MOUNTING HEIGHTS

NOTE 1: ALL MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE, UNLESS OTHERWISE INDICATED.
A) 48" AFF INDICATES TO TOP OF DEVICE;
B) 15" AFF INDICATES TO BOTTOM OF DEVICE;
C) 60" AFF INDICATES TO BOTTOM OF DEVICE;
D) 80" AFF INDICATES TO BOTTOM OF DEVICE;

NOTE 2: CONFIRM ALL BACKBOX SIZE WITH VENDOR SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN.

NOTE 3: NOT ALL SYMBOLS SHOWN ON THIS SHEET ARE USED IN THIS PROJECT SCOPE.

(2) - LEGEND NOTES: DENOTES "SEE LEGEND NOTE NO. 2"

02/E7.01 - DENOTES: REFERENCE DETAIL 02 ON DRAWING (SHEET) E7.01

E5.01 / 02 - DENOTES: REFERENCE ENLARGED DETAIL PLAN 02 ON DRAWING (SHEET) E5.01

$x - CONTROLS ONLY LIGHT FIXTURE WITH MATCHING LOWERCASE LETTER

(1) - EQUIPMENT (ID) NUMBER FOR FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE DOCUMENTS FOR DEFINITION AND REQUIREMENTS.

(47N/S3) OR (41T/S2) - EQUIPMENT (ID) NUMBER FOR OWNER PROVIDED EQUIPMENT. REFER TO OWNER'S EQUIPMENT BOOK / FF&E DOCUMENTS FOR DEFINITION AND REQUIREMENTS.

WIRING DEVICE SYMBOLS LEGEND

SYMBOL	DESCRIPTION	MTG. HT. UNO (SEE NOTE 1)
	SINGLE RECEPTACLE - 20A/125V/2P/3WG NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE - 20A/125V/2P/3WG NEMA 5-20R	18" AFF
GFI	DUPLEX RCPT. SPLIT-WIRED - 20A/125V/2P/3WG NEMA 5-20R	18" AFF
GFI	DUPLEX RCPT. GFCI - 20A/125V/2P/3WG NEMA 5-20R	18" AFF
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE)	18" AFF
E	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	18" AFF
U	DUPLEX RECEPTACLE ON UPS SYSTEM CIRCUIT	18" AFF
TP	DUPLEX RCPT, TAMPER PROOF-20A/125V/2P/3WG NEMA 5-20R	18" AFF
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	18" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER	8" AFC OR 42" AFF
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE) MOUNTED ABOVE COUNTER	8" AFC OR 42" AFF
E	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER ON EMERGENCY CIRCUIT	8" AFC OR 42" AFF
E	QUADRAPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE) MOUNTED ABOVE COUNTER ON EMERG. CIRC.	8" AFC OR 42" AFF
(J)	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
	MULTIOUTLET ASSEMBLY - LENGTH AND OUTLET SPACING AS INDICATED	AS REQUIRED
30/3/3	DISCONNECT SWITCH - 30/3/3 INDICATES 30A, 30AMP FUSED, 3-POLE.	AS REQUIRED
30/-/3	DISCONNECT SWITCH - 30/-/3 INDICATES 30A, NONFUSED, 3-POLE.	AS REQUIRED
30/3	CIRCUIT BREAKER DISCONNECT SWITCH - THERMAL MAGNETIC CB IN NEMA 1 ENCLOSURE; AMPS/POLES AS INDICATED	AS REQUIRED
CB 2	MOTOR STARTER FVNR UNO; NUMBER INDICATES NEMA SIZE	AS REQUIRED
	MOTOR	-
		-
	CIRCUIT HOMERUN TO PANELBOARD (2 #12, 1#12G, 3/4"C. 20A/1P CB UNO)	-
	CONDUIT INSTALLED IN CEILING SPACE OF FLOOR BELOW.	-
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-
X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBERS	-
EPO	EMERGENCY POWER OFF BUTTON. WALL MOUNTED - REFER TO VENDOR DRAWINGS FOR ADDITIONAL REQUIREMENTS	AS REQUIRED

LIGHTING SYMBOLS LEGEND

SYMBOL	DESCRIPTION	MTG. HT. UNO (SEE NOTE 1)
	2'x4' FLUORESCENT LIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	2'x4' FLUORESCENT LIGHT FIXTURE WITH BATTERY BACK-UP BALLAST.	SEE FIXTURE SCHEDULE
	2'x4' FLUORESCENT LIGHT FIXTURE W/INBOARD LAMPS ON NORMAL CIRCUIT AND OUTBOARD LAMPS ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	2'x4' FLUORESCENT LIGHT FIXTURE W/INBOARD LAMPS ON BATTERY BACK-UP BALLAST.	SEE FIXTURE SCHEDULE
	SURFACE MOUNT / CHAIN HUNG INDUSTRIAL STRIP FIXTURE.	SEE FIXTURE SCHEDULE
	2'x2' FLUORESCENT LIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	2'x2' FLUORESCENT LIGHT FIXTURE WITH BATTERY BACK-UP BALLAST.	SEE FIXTURE SCHEDULE
	2'x2' FLUORESCENT LIGHT FIXTURE W/INBOARD LAMPS ON NORMAL CIRCUIT AND OUTBOARD LAMPS ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	2'x2' FLUORESCENT LIGHT FIXTURE W/INBOARD LAMPS ON BATTERY BACK-UP BALLAST.	SEE FIXTURE SCHEDULE
	RECESSED/SUSPENDED DOWNLIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	RECESSED/SUSPENDED DOWNLIGHT FIXTURE WITH BATTERY BACK-UP BALLAST.	SEE FIXTURE SCHEDULE
	RECESSED DOWNLIGHT FIXTURE WITH WALL WASH TRIM ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	RECESSED DOWNLIGHT FIXTURE WITH WALL WASH TRIM AND BATTERY BACK-UP BALLAST.	SEE FIXTURE SCHEDULE
	INCANDESCENT, FLUORESCENT, OR HID PENDANT FIXTURE.	SEE FIXTURE SCHEDULE
	CEILING MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGAL FACE. ARROW INDICATE CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
	END MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGAL FACE. ARROW INDICATE CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
	WALL MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGAL FACE. ARROW INDICATE CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
$	WALL SWITCH SPST, 20A, 120/277V	48" AFF
$3	3-WAY WALL SWITCH, 20A, 120/277V	48" AFF
$D	WALL DIMMER SWITCH, 20A, 120/277V	48" AFF
$LV	LOW VOLTAGE WALL SWITCH	48" AFF

COMMUNICATIONS SYMBOLS LEGEND

SYMBOL	DESCRIPTION	MTG. HT. UNO (SEE NOTE 1)
	TELEPHONE OUTLET. WALL MOUNTED - STUB 3/4" C. ABOVE ACCESSIBLE CEILING FROM OUTLET BOX	15" AFF
W	TELEPHONE OUTLET. WALL MOUNTED - STUB 3/4" C. ABOVE ACCESSIBLE CEILING FROM OUTLET BOX	48" AFF
P	PAY TELEPHONE OUTLET. WALL MOUNTED - STUB 3/4" C. ABOVE ACCESSIBLE CEILING FROM OUTLET BOX	48" AFF
	FLOOR MOUNTED TELEPHONE OUTLET - FLUSH MOUNTED UNO	-
	TELEPHONE AND DATA OUTLET - STUB 3/4" C. ABOVE ACCESSIBLE CEILING FROM OUTLET BOX	15" AFF
	DATA OUTLET. WALL MOUNTED - STUB 3/4" C. ABOVE CEILING FROM OUTLET BOX	15" AFF
AC	DATA OUTLET. WALL MOUNTED ABOVE COUNTER- STUB 3/4" C. ABOVE CEILING FROM OUTLET BOX	8" AFC OR 42" AFF
	FLOOR MOUNTED DATA OUTLET - FLUSH MOUNTED UNO	-
CR	CARD READER. WALL MOUNTED - STUB 1/2" C. ABOVE ACCESSIBLE CEILING FROM OUTLET BOX. REFER TO ELECTRONIC HARDWARE SCHEDULE, BY DIVISION 8, FOR EXACT EQUIPMENT SPECIFICATIONS.	48" AFF
PB	PUSH BUTTON FOR ACCESS CONTROL. WALL MOUNTED - STUB 1/2" C. ABOVE ACCESSIBLE CEILING FROM OUTLET BOX. REFER TO ELECTRONIC HARDWARE SCHEDULE, BY DIVISION 8, FOR EXACT EQUIPMENT SPECIFICATIONS.	48" AFF
C	CCTV SECURITY CAMERA. CEILING MOUNTED. PROVIDE SINGLE GANG OULET BOX U.N.O.	-
CM	CCTV SECURITY CAMERA - PAN/TILT/ZOOM. CEILING MOUNTED. PROVIDE SINGLE GANG OULET BOX U.N.O.	-
TV	TELEVISION SYSTEM OUTLET. WALL MOUNTED - STUB 1/2" C. ABOVE ACCESSIBLE CEILING FROM OUTLET BOX.	-
F	FIRE ALARM PULL STATION	48" AFF
F	FIRE ALARM AUDIBLE VISUAL SIGNAL	80" AFF
F	FIRE ALARM AUDIBLE SIGNAL	80" AFF
F	FIRE ALARM VISUAL SIGNAL	80" AFF
FP	TELEPHONE JACK FOR FIREMAN'S PHONE (BY FIRE ALARM CONTRACTOR)	48" AFF
D HD	SMOKE DETECTOR CEILING OR WALL MOUNTED	-
MHO	SMOKE DOOR MAGNETIC HOLD OPEN, CONNECT TO FIRE ALARM SYSTEM - STUB 3/4" C. ABOVE ACCESSIBLE CEILING FROM OUTLET	-
TV	TELEVISION OUTLET	-

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	AURORA, CO
APPLICABLE CODES:	
BUILDING	2009 IBC
MECHANICAL	2009 IMC
PLUMBING	2009 IPC
ENERGY	2009 IECC
ELECTRICAL	2014 NEC
LATITUDE:	
DEG. N. LAT.	39°41' N
ELEVATION:	
FT. ABOVE SEA LEVEL	5471

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

ELECTRICAL SPECIFICATIONS

I GENERAL CONDITIONS

A. THE SCOPE OF THE WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF THE NECESSARY MATERIAL AND LABOR TO ACCOMPLISH THE WORK INDICATED BY THE DRAWINGS AND HEREIN SPECIFIED. ALL WORK BY THIS CONTRACTOR SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES.

B. THE CONTRACT DOCUMENTS DO NOT PROPOSE TO SHOW ALL EXISTING SYSTEMS, EQUIPMENT OR MATERIAL. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE EXISTING CONDITIONS AT THE JOB SITE BEFORE SUBMITTING PROPOSALS. SUBMISSION OF PROPOSALS SHALL BE TAKEN AS EVIDENCE THAT SUCH INSPECTION HAS TAKEN PLACE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

C. MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER ACCEPTANCE AND ACCEPTANCE BY THE OWNER.

D. CONTRACTOR SHALL INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH OTHER TRADES.

E. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL ORDINANCES, UTILITY COMPANY REGULATIONS, AND APPLICABLE REQUIREMENTS OF NATIONALLY ACCEPTED CODES AND STANDARDS. SHOULD THE CONTRACTOR SUPPLY EQUIPMENT DIFFERING FROM THE SPECIFIED ITEMS IN THE CONTRACT DOCUMENTS WITHOUT NOTIFICATION TO THE ENGINEER, HE SHALL BEAR ALL COSTS TO UPGRADE DEFICIENCIES ARISING FROM SUCH.

F. WHERE ONLY ONE MANUFACTURER'S NAME IS LISTED IN THE EQUIPMENT SPECIFICATION, OTHER MANUFACTURERS OF SIMILAR CHARACTERISTICS AND OF EQUAL OR BETTER PERFORMANCE CAPACITIES MAY BE CONSIDERED FOR "OR EQUAL" ACCEPTANCE BY THE ENGINEER. SUBSTITUTION REQUESTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. WHERE MORE THAN ONE MANUFACTURER IS LISTED IN THE NOTES AND EQUIPMENT SPECIFICATIONS, ONLY THOSE NAMED A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER ACCEPTANCE. SHOULD A SUBSTITUTION BE ACCEPTED, AND SHOULD THE SUBSTITUTE MATERIAL PROVE DEFECTIVE, OR OTHERWISE UNSATISFACTORY FOR THE SERVICE INTENDED WITHIN THE GUARANTEE PERIOD, THIS MATERIAL OR EQUIPMENT SHALL BE REPLACED WITH THE MATERIAL OR EQUIPMENT SPECIFIED AT NO COST TO THE OWNER.

G. PROVIDE ACCESS, INCLUDING NECESSARY ACCESS DOORS, FOR NEW AND EXISTING EQUIPMENT REQUIRING OPERATION AND/OR MAINTENANCE. RELOCATE EXISTING AND LOCATE ALL NEW EQUIPMENT SUCH THAT OPERATION OR MAINTENANCE IS NOT RESTRICTED.

H. INSTALL EQUIPMENT WITH WORKING CLEARANCES COMPLYING WITH NEC 110-16 AND 110-34.

II PRODUCTS

A. CONDUIT

1. ELECTRIC METALLIC TUBING (EMT): OF HIGH GRADE STEEL MANUFACTURED SPECIFICALLY TO STANDARDS ASSURING MAXIMUM WELDING CHARACTERISTICS AND DUCTILITY, AND SHALL CONFORM TO FED. SPEC. WW-T-806b.
2. FLEXIBLE METAL CONDUIT: MANUFACTURED OF MILD STEEL STRIP MATERIAL HAVING A HOT-DIP GALVANIZED COATING AND MEETING REQUIREMENTS OF FED. SPEC. WW-C-566b.
3. LIQUIDTIGHT FLEXIBLE CONDUIT: FLEXIBLE METAL CONDUIT AS SPECIFIED HEREIN WITH A COPPER GROUNDING STRAND AND FACTORY-APPLIED NEOPRENE JACKET. LIQUID TIGHT FLEXIBLE CONDUIT SHALL BE UL LISTED, EQUIVALENT TO ANACONDA "SEALTITE", TYPE UA.

B. COUPLINGS AND TERMINATORS

1. FOR ELECTRIC METALLIC TUBING: STEEL SET SCREW COUPLINGS; STEEL SET SCREW BOX CONNECTORS WITH NYLON INSULATED THROAT AND LOCKNUTS AT ALL BOXES AND CABINET TERMINATIONS OR NON-INSULATED BOX CONNECTOR, LOCKNUT AND NYLON-INSULATED GROUNDING BUSHING ON ALL TUBING WHERE GROUNDING BUSHINGS ARE REQUIRED.
2. FOR FLEXIBLE METAL CONDUIT: COUPLINGS AT CONNECTIONS BETWEEN FLEXIBLE CONDUIT AND EMT, AND NYLON INSULATED THROAT STEEL CONNECTORS AT BOX OR CABINET TERMINATIONS.

C. JUNCTION AND PULL BOXES

1. SIZE BOXES IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC. BOXES SHALL BE NO SMALLER THAN 4 INCHES SQUARE BY 1-1/2 INCHES DEEP WITH COVERS ACCESSIBLE AT ALL TIMES. SET BOXES ON CONCEALED CONDUITS WITH COVERS FLUSH WITH THE FINISHED WALL OR CEILING LINE. PROVIDE JUNCTION AND PULL BOXES OF APPROPRIATE DIMENSIONS FOR CONDUITS AND CONDUCTORS NOTED, WHERE SHOWN AND WHERE NECESSARY FOR THE INSTALLATION AND PULLING OF CABLES AND WIRES. INSTALL COVERS ON JUNCTION BOXES AND CONDULETS AFTER WIRING AND CONNECTIONS ARE COMPLETED.

D. OUTLET BOXES

1. OUTLET BOXES SHALL BE UL LISTED, AND OF SIZES AND TYPES REQUIRED FOR THE APPLICATION. OUTLET BOXES SHALL BE SHEET STEEL, NO LIGHTER THAN 14 GAUGE, GALVANIZED AFTER FABRICATION. SET BOX SO FACE OF BOX WILL FINISH FLUSH WITH BUILDING SURFACE.
   a. FOR LIGHTING FIXTURE OUTLETS: 4 INCH SQUARE BY 1-1/2 INCHES DEEP WITH RAISED FIXTURE RING.
   b. FOR WALL SWITCHES, RECEPTACLES, AND COMMUNICATION USE: 4 INCH SQUARE, BY 1-1/2 INCHES DEEP. USE BOXES WITH PLASTER RINGS IN ALL PLASTERED WALLS WHERE WALL THICKNESS PERMITS. USE BOXES LESS THAN 1-1/2 INCH DEEP ONLY IN LOCATIONS WHERE DEEP BOXES CANNOT BE ACCOMMODATED BY CONSTRUCTION.

E. PULL CORDS

1. PROVIDE A NYLON POLYETHYLENE CORD, WITH A TENSILE STRENGTH OF NOT LESS THAN 200 POUNDS, IN EACH EMPTY CONDUIT TO FACILITATE THE FUTURE INSTALLATION OF CONDUCTORS. INCORPORATE PLASTIC TAGS FOR IDENTIFICATION.

F. CONDUCTORS

1. CONDUCTORS SHALL BE 98% CONDUCTIVITY SOFT DRAWN ANNEALED COPPER, 600 VOLT, THHN/THWN INSULATION, #10 AND SMALLER - SOLID, #8 AND LARGER - STRANDED.
2. NO CONDUCTORS SHALL BE SMALLER THAN NO. 12, EXCEPT FOR SIGNAL OR CONTROL CIRCUITS AND FOR INDIVIDUAL LIGHTING FIXTURE TAPS AS PERMITTED BY NEC.
3. FOR HOME RUNS ON 120-VOLT, 20-AMPERE BRANCH CIRCUITS, WHERE LENGTH OF RUN FROM PANELBOARD TO FIRST OUTLET EXCEEDS 100 LINEAR FEET, USE NO. 10 CONDUCTORS. WHERE LENGTH OF RUN IS 100 LINEAR FEET OR LESS, USE NO. 12 CONDUCTORS.
4. FOR HOME RUNS ON 277-VOLT, 20-AMPERE BRANCH CIRCUITS, WHERE LENGTH OF RUN FROM PANELBOARD TO FIRST OUTLET EXCEEDS 200 LINEAR FEET, USE NO. 10 CONDUCTORS. WHERE LENGTH OF RUN IS 100 LINEAR FEET OR LESS, USE NO. 12 CONDUCTORS.

G. WIRING DEVICES, COVER PLATES AND ACCESSORIES

1. PROVIDE WIRING DEVICES AND ASSOCIATED ACCESSORIES OF HOSPITAL GRADE. DEVICES OF LEVITON, HUBBELL OR PASS & SEYMORE ARE ACCEPTABLE. SUBMIT FOR REVIEW A COMPLETE LIST OF ANY SUBSTITUTES OFFERED FROM THOSE SPECIFIED.
2. COLOR OF WALL SWITCHES, RECEPTACLES AND FACEPLATES: AS SPECIFIED OR SELECTED BY ARCHITECT.
3. WHERE LIGHTING CIRCUITS ARE SHOWN TO BE LINE VOLTAGE SWITCHED, PROVIDE WITH SPECIFICATION GRADE, HORSEPOWER RATED, UL LISTED, BACK- AND SIDE-WIRED, TOGGLE SWITCHES RATED 20-AMP, 120 VOLTS OR 277 VOLTS. SWITCHES SHALL BE SPST, DPST, 3-WAY OR 4-WAY, WITH OR WITHOUT PILOT LIGHT, AS INDICATED ON THE DRAWINGS.
4. RECEPTACLES
   a. STANDARD WALL RECEPTACLES SHALL BE HOSPITAL GRADE, RATED 20-AMP, 120-VOLT, 2 POLE, 3-WIRE, GROUNDING TYPE, SIDE-WIRED, NEMA 5-20R.
   b. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SHALL BE 20 AMP, 120 VOLT, 2 POLE, 3-WIRE, NEMA 5-20R.
5. MAINTAIN GROUNDING CONTINUITY BETWEEN DEVICES AND METALLIC RACEWAY SYSTEM IN ADDITION TO PROVIDING A GREEN EQUIPMENT GROUNDING CONDUCTOR RUN WITH ALL CIRCUIT CONDUCTORS AS INDICATED ON THE DRAWINGS, EXCEPT CARE SHALL BE TAKEN WHEN INSTALLING RECEPTACLES HAVING ISOLATED GROUND POLE SO AS TO NOT BOND THE EQUIPMENT GROUND CONDUCTOR TO THE CONDUIT SYSTEM.

H. GROUNDING

1. GROUNDING SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
2. GROUNDING CONDUCTORS SHALL BE ANNEALED COPPER CABLES OF THE SIZES INDICATED OR REQUIRED.
3. A "GREEN WIRE" EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY, WHETHER METALLIC OR NON-METALLIC, TO FORM A COMPLETE AND CONTINUOUS GROUNDING PATH. CONNECT GROUNDING CONDUCTORS TO GROUND TERMINALS AT EACH END OF THE RUN.

I. LIGHTING FIXTURES

1. INSURE EACH LIGHTING FIXTURE HAS AN OPERATING SET OF LAMPS EQUAL TO EQUSTING OR OF THE TYPES SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN. LAMPS SHALL BE MANUFACTURED BY GENERAL ELECTRIC, PHILIPS, OR OSRAM/SYLVANIA, EXCEPT WHERE SCHEDULED OTHERWISE.
2. FLUORESCENT LAMPS: IN GENERAL, 48-INCH LENGTH, T-8, RAPID START, ENERGY-SAVING LAMPS; LAMP COLOR AS INDICATED.
3. FLUORESCENT BALLASTS: IN GENERAL, ELECTRONIC TYPE FOR BOTH STANDARD FLUORESCENT AND COMPACT FLUORESCENT; INPUT POWER FACTOR ABOVE 95%, THD LESS THAN 20%; AS MANUFACTURED BY MOTOROLA, ADVANCE OR MAGNETEK.
4. PROVIDE A LIGHTING FIXTURE COMPLETE WITH LAMPS, BALLASTS, AND OTHER REQUIRED APPURTENANCES FOR EACH LIGHTING OUTLET SHOWN ON THE DRAWINGS. LIGHT FIXTURES SHALL BE AS DESCRIBED IN THE "LIGHTING FIXTURE SCHEDULE". EACH UNIT SHALL BE FURNISHED WITH ALL MOUNTING AND TRIM ACCESSORIES TO SUIT THE SPECIFIC SERVICES APPLIED. FINISHES SHALL BE FACTORY-STANDARD, EXCEPT WHERE SCHEDULED OTHERWISE.
5. PROVIDE LIGHTING FIXTURES IN ACCORDANCE WITH THE DESIGNATIONS AND DESCRIPTIONS ON THE DRAWINGS. WHERE A SINGLE MANUFACTURER AND ASSOCIATED CATALOG NUMBER IS SCHEDULED, IT IS TO ESTABLISH A DESIRED TYPE AND STANDARD OF QUALITY.
6. LIGHTING FIXTURES SHALL BE UL LABELED.

J. FIRE ALARM SYSTEM

1. FURNISH AND INSTALL FIRE ALARM AND DETECTION SYSTEM ADDITIONS AND RELOCATIONS AS INDICATED ON THE DRAWINGS, COMPATIBLE AND CONSISTENT WITH THE EXISTING SYSTEM.
2. THE EXISTING SYSTEM OPERATION SHALL REMAIN UNCHANGED PROVIDING CONTINUAL SERVICE DURING ALL PHASES OF THE RENOVATION AND EXPANSION.

K. TELEPHONE/DATA SYSTEM

1. AT ALL WALL DATA/VOICE OUTLET LOCATIONS, PROVIDE BACK BOXES AND 3/4" EMPTY CONDUIT WITH PULL CORD TO ABOVE CEILING.

III EXECUTION

A. INSTALLATION OF BUILDING CONDUIT

1. ALL INTERIOR RACEWAYS SHALL BE EMT.
2. CONDUITS SHALL BE OF SUCH SIZE AND SO INSTALLED THAT THE CONDUCTORS MAY BE DRAWN THROUGH WITHOUT INJURY OR EXCESSIVE STRAIN. SHALL BE SECURED AT CABINETS AND BOXES WITH GALVANIZED LOCKNUTS, BOTH INSIDE AND OUTSIDE, AND SHALL HAVE APPROPRIATE BUSHINGS INSIDE. BUSHINGS SHALL BE INSULATING TYPE WITH BOND GROUND CLAMPS.
3. USE LENGTHS OF FLEXIBLE METAL CONDUIT NOT LESS THAN 12 INCHES LONG AT FINAL CONNECTIONS TO ALL MOTORS, TRANSFORMERS AND SIMILAR DEVICES SUBJECT TO MOVEMENT BECAUSE OF VIBRATION OR MECHANICAL ADJUSTMENT. USE FLEXIBLE METAL CONDUITS TO EFFECT FINAL CONNECTIONS TO RECESSED LIGHTING FIXTURES. USE LIQUID TIGHT FLEXIBLE METAL CONDUIT, WITH APPROPRIATE CONNECTIONS, IN DAMP OR WET LOCATIONS, AT MOTOR OR EQUIPMENT LOCATIONS IN MECHANICAL EQUIPMENT ROOMS, AT OR NEAR PUMPS, AND WHEN INSTALLED OUTDOORS.
4. GROUND METALLIC CONDUITS AS REQUIRED BY NEC.
5. INSTALL RACEWAYS CONTINUOUS FROM OUTLET TO OUTLET BOX, OR CABINET, WITH A MAXIMUM OF 150 FEET BETWEEN PULLS. IN AREAS WHERE THERE ARE NO SUSPENDED CEILINGS, RUN ALL CONDUITS PARALLEL/PERPENDICULAR TO BUILDING SURFACE PLANES.
6. IN SYSTEMS OPERATING AT MORE THAN 300 VOLTS BETWEEN PHASE CONDUCTORS, AND WHERE DIFFERENT PHASE CONDUCTORS ARE TO BE RUN TO A COMMON GANG WALL SWITCH BOX, PROVIDE SUBSTANTIAL BARRIERS BETWEEN ADJACENT SWITCHES IN THE BOX SO THAT TWO DIFFERENT PHASE WIRES WILL NOT BE IN THE SAME COMPARTMENT.
7. WHEREVER RACEWAYS PASS THROUGH FLOORS, WALLS, PENETRATIONS, OR OTHER PARTITIONS, CAREFULLY FILL ANY SPACE BETWEEN THE OUTSIDE OF THE RACEWAY AND THE BUILDING MATERIAL TO PREVENT PASSAGE OF AIR, WATER, SMOKE, AND FUMES. FILLING MATERIAL SHALL BE A UL LISTED, INTUMESCENT SEALING HAVING FIRE/SMOKE RESISTIVE RATING EQUAL TO THE BUILDING MATERIAL PENETRATED.
8. CONDUITS UTILIZED THROUGHOUT THE PROJECT SHALL NOT BE SMALLER THAN 3/4 INCH FOR FEEDERS, MULTIPLE BRANCH CIRCUIT HOMERUNS AND HOMERUNS OF CONDUCTORS LARGER THAN NO. 12. INDIVIDUAL BRANCH CIRCUIT WIRING FOR NO. 12 CONDUCTORS SHALL BE ACCEPTABLE IN 1/2" CONDUIT, I.E. 3#12, 1#12G, 1/2"C.

B. INSTALLATION OF PULL AND JUNCTION BOXES

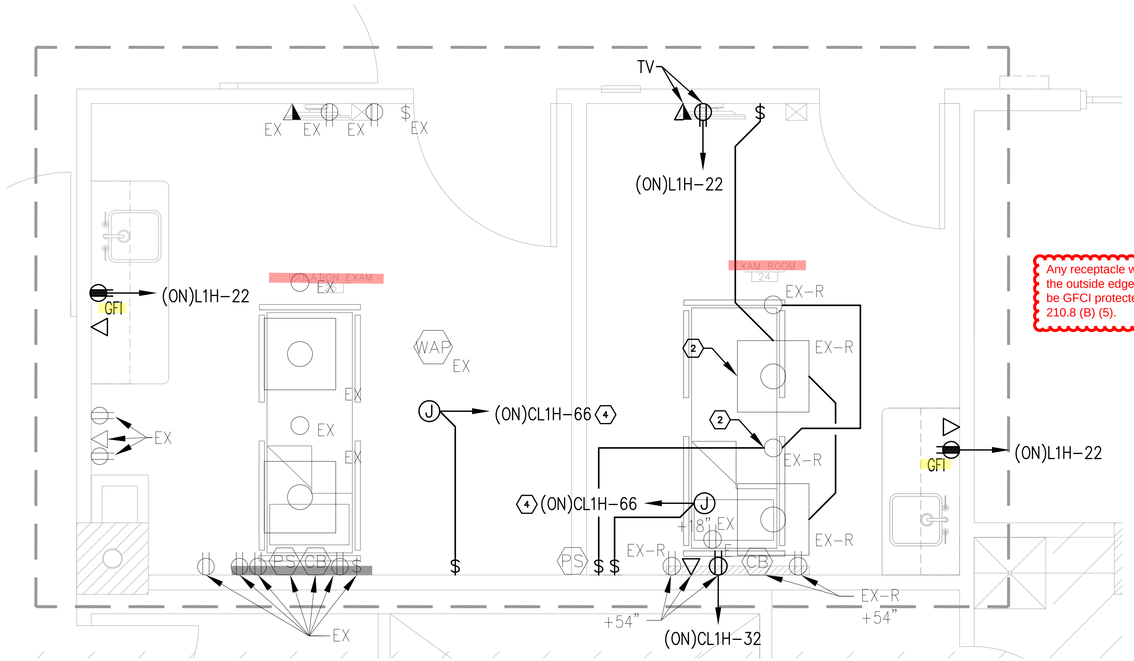
1. FASTEN ALL BOXES SECURELY TO THE BUILDING CONSTRUCTION, INDEPENDENT OF CONDUIT SYSTEMS.
2. ON CONCEALED CONDUIT SYSTEMS WHERE BOXES ARE NOT OTHERWISE ACCESSIBLE, SET BOXES FLUSH WITH FINISHED SURFACES FOR ACCESS, AND PROVIDE OVERLAPPING COVERS.

C. INSTALLATION OF OUTLET BOXES

1. TERMINATE CONDUITS AT A METAL OUTLET BOX AT EACH OUTLET OR DEVICE. ALL BOXES SHALL CONFORM TO THE NEC.
2. OUTLET BOXES SHALL BE SUPPORTED INDEPENDENT OF THE CONDUIT SYSTEM.

D. INSTALLATION OF CONDUIT HANGERS AND SUPPORTS

1. FURNISH AND INSTALL ALL HANGERS AND SUPPORTS REQUIRED BY RACEWAY SYSTEMS.
2. SUPPORT ALL ABOVE-GROUND ELECTRICAL CONDUITS FROM THE BUILDING STRUCTURE/CONSTRUCTION. SUPPORT CONDUITS RUNNING VERTICALLY OR HORIZONTALLY ALONG WALLS WITH GALVANIZED MALLEABLE IRON ONE-HOLE CLAMPS. CARRY INDIVIDUALLY SUPPORTED HORIZONTAL CONDUITS 1-1/4 INCH AND LARGER ON SUITABLE HANGERS.
3. LOCATE HANGERS AND TRAPEZES TO SUPPORT HORIZONTAL RACEWAYS WITHOUT APPRECIABLE SAGGING. HANGER SPACING SHALL NOT EXCEED NEC REQUIREMENTS, OR RECOMMENDATIONS OF THE NECA "STANDARD OF INSTALLATION".
4. WHERE CONDUITS SMALLER THAN 1-1/4 INCH ARE INSTALLED ABOVE REMOVABLE TYPE DRY CEILINGS, SUPPORT THEM ON SUITABLE HANGER RODS WITH METAL CLIPS AT A DISTANCE ABOVE THE CEILING SUFFICIENT TO PERMIT REM



NORTH

ELECTRICAL PLAN - NEW
1/2" = 1'

GENERAL NOTES

A. REFER TO SHEET E-0.0 FOR LEGENDS, GENERAL NOTES, AND ABBREVIATIONS.
B. COORDINATE INSTALLATION OF ELECTRICAL DEVICES IN CASEWORK WITH ARCHITECT.
C. CUT AND PATCH EXISTING DRYWALL AS REQUIRED TO INSTALL NEW CONDUITS IN EXISTING PARTITIONS.
D. CIRCUIT NUMBERS REPRESENT DESIGN INTENT ONLY. CONTRACTOR SHALL VERIFY EXISTING CIRCUITS IN FIELD. NOTIFY ENGINEER OF ANY DISCREPANCIES.

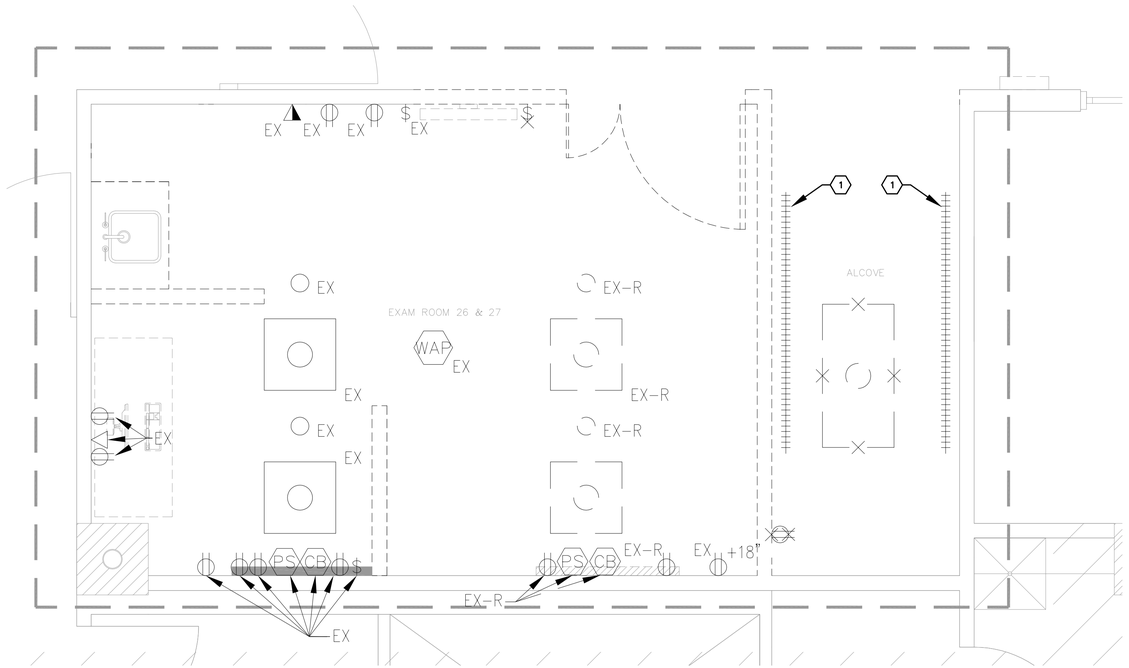
Any receptacle within 6 feet of the outside edge of a sink shall be GFCI protected. 2014 NEC 210.8 (B) (5).

LEGEND NOTES

1. REMOVE AND SALVAGE EXISTING PLUG MOLD STRIP.
2. REWIRE EXISTING LIGHTING FIXTURES TO NEW LIGHTING CONTROLS. RE-WORK EXISTING BRANCH CIRCUIT WIRING TO ACCOMMODATE RELOCATION OF EXISTING LIGHTING FIXTURES.
3. PROVIDE 120V CONNECTION TO EXAM LIGHT FURNISHED BY OWNER.
4. CONNECT EXAM LIGHT TO EXISTING 120V CRITICAL BRANCH CIRCUIT CURRENTLY SERVING THIS SPACE. CONTRACTOR SHALL ENSURE ADDED LOAD PLUS EXISTING LOAD DOES NOT EXCEED 80% OF THE CIRCUITS RATED CAPACITY.

Locate receptacles a minimum of 15" AFF and locate light switches, pull boxes and thermostats etc. a maximum of 44" AFF per 2003 ANSI A117.1 308.

Wiring in patient care areas shall comply with the grounding requirements of 2014 NEC 517.13 (A) and (B).



NORTH

ELECTRICAL PLAN - DEMOLITION
1/2" = 1'

GENERAL NOTES

A. REFER TO SHEET E-0.0 FOR LEGENDS, GENERAL NOTES, AND ABBREVIATIONS.
B. EXISTING DEVICES TO BE DEMOLISHED SHALL BE COMPLETELY REMOVED PER DEMOLITION SPECIFICATIONS. EXISTING RACEWAY CONCEALED WITHIN EXISTING PARTITIONS OR INACCESSIBLE CEILINGS SHALL BE REMOVED UNLESS DIRECTED OTHERWISE BY OWNER. CUT AND PATCH EXISTING PARTITIONS/CEILINGS TO REMOVE RACEWAY.

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
Date: *Nov 30, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *2015-1025782-LT*

The Medical Center of Aurora
Health ONE

TRIAGE WAITING METAL DETECTOR

MEDICAL CENTER OF AURORA
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AURORA, COLORADO 80012

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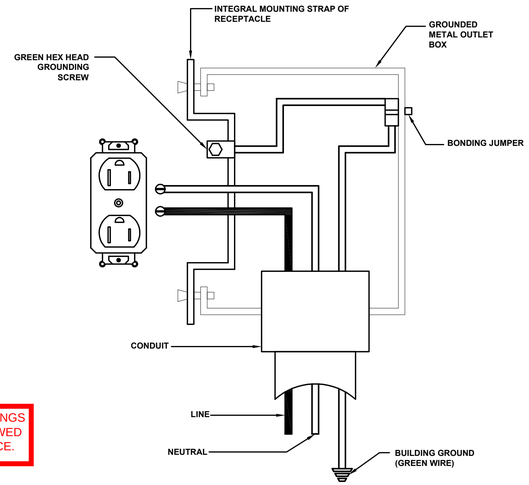
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COLORADO LICENSED JONATHAN M. GRANT 48502 11/23/15 PROFESSIONAL ENGINEER

PROJECT NO.: 14-04
DRAWN BY: DG/LS
CHECKED BY: JG
SCALE:
DATE: 10.26.15
ISSUED FOR: CONSTRUCTION
REVISIONS:

SHEET TITLE:
ELECTRICAL PLANS DEMOLITION AND NEW

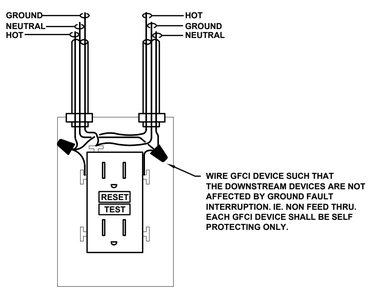
SHEET NO.:
E-1.0
OF



STANDARD RECEPTACLE GROUNDING DETAIL

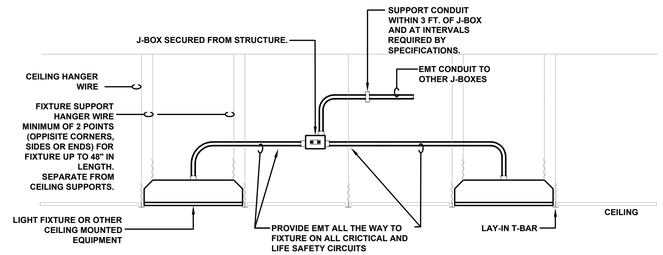
02 NO SCALE

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.



GFCI RECEPTACLE - WIRING DIAGRAM

03 NO SCALE



LAY-IN FIXTURE MOUNTING DETAIL CRITICAL AND LIFE SAFETY

01 NO SCALE

RSN: *1063633*
Permit #: *2015-1025782-LT*

The Medical Center of Aurora
Health ONE

TRIAGE WAITING METAL DETECTOR

MEDICAL CENTER OF AURORA

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COLORADO LICENSED JONATHAN M. GRANT 48502 10/23/15 PROFESSIONAL ENGINEER

PROJECT NO.:	**14-04**
DRAWN BY:	**DG/LS**
CHECKED BY:	**JG**
SCALE:	
DATE:	**10.26.15**
ISSUED FOR:	**CONSTRUCTION**
REVISIONS:	

SHEET TITLE:

ELECTRICAL DETAILS

SHEET NO.:

E-2.0

OF

EXISTING PANEL: CL1H — CRITICAL

LOCATION: ELEC 1-1803 | FED FROM: EDPA | NEUTRAL BUS: Yes
MAIN BUS: 225A | WIRES: 4W + G | GROUND BUS: Yes
MCB: N/A | ENCLOSURE: NEMA 1 | ISOLATED GROUND BUS: No
VOLTAGE: 208/120 | BUS TYPE: Copper | 200% NEUTRAL: No
AIC: 10,000A | MOUNTING: Surface | FEED THROUGH LUGS: Yes
PANEL LUGS: Main Lugs Only

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	2
3	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	4
5	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	6
7	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	8
9	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	10
11	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	12
13	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	14
15	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	16
17	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	18
19	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	20
21	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	22
23	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	24
25	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	26
27	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	28
29	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	30
31	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	32
33	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	34
35	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	36
37	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	38
39	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	40
41	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	42

NOTES:

REMOVED LOAD	180 VA
ADDED LOAD	360 VA
TOTAL NET LOAD	180 VA
PERCENT LOAD ADDED	0.2%

EXISTING PANEL: CL1H (SECTION 2) — CRITICAL

LOCATION: ELEC 1-1803 | WIRES: 4W + G | NEUTRAL BUS: Yes
MAIN BUS: 225A | ENCLOSURE: NEMA 1 | GROUND BUS: Yes
MCB: N/A | BUS TYPE: Copper | ISOLATED GROUND BUS: No
VOLTAGE: 208/120 | MOUNTING: Surface | 200% NEUTRAL: No
AIC: 10,000A | PANEL LUGS: Main Lugs Only | FEED THROUGH LUGS: No

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
43	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	44
45	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	46
47	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	48
49	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	50
51	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	52
53	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	54
55	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	56
57	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	58
59	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	60
61	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	62
63	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	64
65	EXISTING LOAD	-	20	1	C	20*	1	360	EXAM LIGHTS	66
67	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	68
69	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	70
71	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	72
73	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	74
75	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	76
77	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	78
79	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	80
81	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	82
83	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	84

NOTES:
*INDICATES NEW LOAD ADDED TO AN EXISTING CIRCUIT.
LOAD SHOWN IS NEW LOAD ONLY.

'CL1H' LOAD SUMMARY

	LTS	RCPTS	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.4	0.0	0.0	0.4	1.0
DEMAND FACTOR	SEE DEMAND FACTOR TABLE				
TOTAL DEMAND LOAD	0.4	0.0	0.0	0.4	1.0
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00		
TOTAL DESIGN LOAD	0.5	0.0	0.0	0.5	1.2

Legibly identify each breaker or switch for it's use or purpose on the circuit directory in the panel/switchboard per 2014 NEC 408.4.

EXISTING PANEL: L1H — NORMAL

LOCATION: ELEC 1-1803 | FED FROM: H1H | NEUTRAL BUS: Yes
MAIN BUS: 125A | WIRES: 4W + G | GROUND BUS: Yes
MCB: 100A | ENCLOSURE: NEMA 1 | ISOLATED GROUND BUS: No
VOLTAGE: 208/120 | BUS TYPE: Copper | 200% NEUTRAL: No
AIC: 10,000A | MOUNTING: Surface | FEED THROUGH LUGS: No
PANEL LUGS: Main Circuit Breaker

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	SPARE TO XRAY	-	20	1	A	20	1	-	EXISTING LOAD	2
3	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	4
5	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	6
7	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	8
9	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	10
11	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	12
13	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	14
15	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	16
17	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	18
19	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	20
21	EXISTING LOAD	-	20	1	B	20+	1	540	RCPT - EXAM 24	22
23	EXISTING LOAD	-	20	1	C	20	1	-	SPACE	24
25	EXISTING LOAD	-	20	1	A	20	3	-	SPARE	26
27	EXISTING LOAD	-	20	1	B	-	-	-	SPARE	28
29	EXISTING LOAD	-	20	1	C	-	-	-	SPARE	30
31	SPACE	-	20	1	A	20	1	-	SPARE	32
33	SPACE	-	20	1	B	20	1	-	SPARE	34
35	SPACE	-	20	1	C	20	1	-	SPARE	36
37	SPACE	-	20	1	A	20	1	-	SPACE	38
39	SPACE	-	20	1	B	20	1	-	SPACE	40
41	SPACE	-	20	1	C	20	1	-	SPACE	42

NOTES:
+INDICATES LOAD ADDED TO AN EXISTING SPARE CIRCUIT BREAKER.
LOAD SHOWN IS NEW LOAD ONLY.

'L1H' LOAD SUMMARY

	LTS	RCPTS	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.5	0.0	0.5	1.5
DEMAND FACTOR	SEE DEMAND FACTOR TABLE				
TOTAL DEMAND LOAD	0.0	0.5	0.0	0.5	1.5
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.5	0.0	0.5	1.5

REMOVED LOAD	0 VA
ADDED LOAD	540 VA
TOTAL NET LOAD	540 VA
PERCENT LOAD ADDED	1.5%

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
Date: *Nov 30, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *2015-1025782-LT*

The Medical Center of Aurora
HealthONE

TRIAGE WAITING METAL DETECTOR

MEDICAL CENTER OF AURORA
1501 SOUTH POTOMAC STREET
AURORA, COLORADO 80012

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DESIGN dp LOT
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COLORADO LICENSED — JONATHAN M. GANT — 48502 — 10/23/15 — PROFESSIONAL ENGINEER

PROJECT NO.: 14-04
DRAWN BY: DG/LS
CHECKED BY: JG
SCALE:
DATE: 10.26.15
ISSUED FOR: CONSTRUCTION
REVISIONS:

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NO.:
E-3.0
OF

Added Work to Original Project Scope

Date: 9-30-2015
Project Number: 14-04
City of Aurora Project Number: 15-976795 LT

City of Aurora:

The Medical Center of Aurora is requesting additional work to be included in the scope of the current project. This addition includes the conversion of 322 square feet of exam room space from semi-private to private. Please consider this for review under the current permit number shown above.

DESCRIPTION:

Revisions as indicated on the attached plans:

Cover Sheet - A0.0

Demolition Plan – A2.10

Floor/Dimension/Schedule Plan – A2.11

Ceiling Demolition/Reflected Ceiling Plan – A2.12

Elevations/Sections – A2.40

Respectfully,

Tom Thompson
Architect

RSN: *1063633*
Permit #: *15-1024782*

Tom Thompson Architect, 2510 Osceola Street, Denver, CO 80219 (720)989-6084 tomthompsonarchitect@gmail.com