THE MEDICAL CENTER OF AURORA

19-009D TMCA MEDICAL DECISION UNIT

1501 S POTOMAC ST
AURORA, CO 80012

ISSUE DATE: 09 OCTOBER 2020
PROJECT #: 19-009D

ISSUE FOR CONSTRUCTION

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Dec 24, 2020*
2015 INTERNATIONAL CODES & 2020 NEC

INDEX OF DRAWINGS

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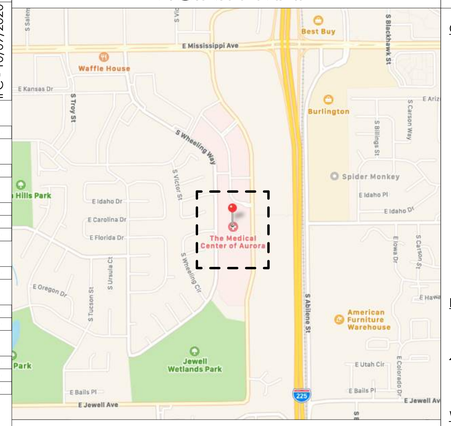
Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

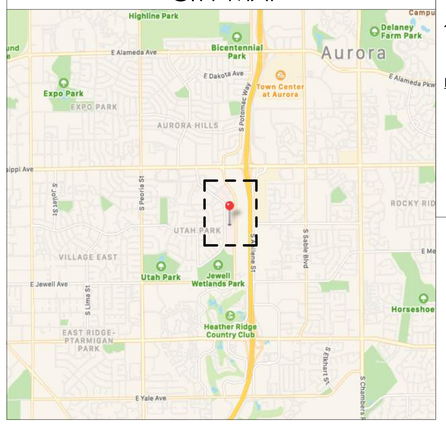
Field Inspection consultation is available upon request. Call 303-739-7420 to request a consultation

This plan is reviewed to **IBC** but the existing building is NOT converted to **IBC**. The construction type listed is **UBC.** Occupancy group is **IBC.**

VICINITY MAP

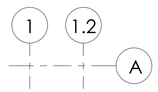


CITY MAP

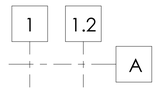


GENERAL SYMBOLS LEGEND

COLUMN GRID DESIGNATION

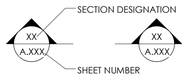


NEW GRID

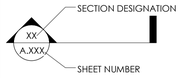


EXISTING GRID

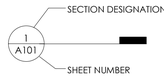
BUILDING SECTION TAG



WALL SECTION TAG



DETAIL CALLOUT TAG



NOTE TAGS

1 NOTE BY NUMBER

XX.XXX SPECIFICATION NOTE

DOOR TAG

XXX DOOR TAG

GLAZING TAG

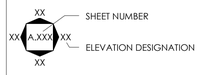
GL-X GLAZING DESIGNATION PER SPECIFICATIONS

ARCHITECTURAL WOODWORK

24" CABINET WIDTH
A1 CABINET TYPE

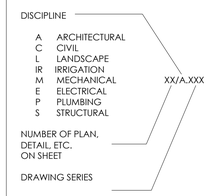
EXTERIOR ELEVATION TAG

INTERIOR ELEVATION TAG



ENLARGED PLAN / CALLOUT TAG

DRAWING NUMBER KEY



GENERAL PROJECT NOTES

1. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
2. DO NOT SCALE THE DRAWING. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING.
3. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF FINISH OF INTERIOR WALLS, TO CENTER LINE OF COLUMNS, AND TO FACE OF CONCRETE OR MASONRY WALLS, UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS AND TO FINISH FACE OF NEW STUD WALLS, UNLESS OTHERWISE INDICATED.
4. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OR OFCI EQUIPMENT.
5. FINISH FLOOR ELEVATIONS ARE TO TOP OF FINISHED FLOORING PRODUCT, NOTED BY AFF (ABOVE FINISH FLOOR) UNLESS OTHERWISE NOTED.
6. COORDINATE EXACT SIZE AND PLACEMENT OF EQUIPMENT BASE AND HOUSEKEEPING PADS WITH EQUIPMENT TO BE PROVIDED.
7. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE OFFSET AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD ON BOTH SIDES.
8. LEVEL FLOORS SO THAT THEY DO NOT EXCEED A 1/4" VARIANCE IN A 10'-0" RADIUS.
9. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS, AND POWERHOUSE. COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
10. ALL EXTERIOR STEEL HANDRAILS, GUARDRAILS, AND BOLLARDS SHALL BE GALVANIZED AND PAINTED UNLESS OTHERWISE NOTED.
11. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
12. APPROVE FLOOR OUTLET LOCATIONS WITH ARCHITECT AND BUILDING MANAGEMENT PRIOR TO CORE DRILLING.
13. OPENINGS IN A RATED WALL, FLOOR, CEILING, AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEM OR PROTECTED WITH A FIRE RATED CHASE.
14. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN CEILINGS SHALL BE POSITIONED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
15. WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
16. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
17. SEALANTS EXPOSED TO VIEW SHALL BE CUSTOM COLOR AS SELECTED BY THE ARCHITECT.
18. COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS
19. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, AND CABINET WORK WITH ADJACENT MATERIALS. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
20. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES INSTALLED WITHIN 2' OF A URINAL, WATER CLOSET, SINK OR LAVATORY SHALL BE MOISTURE SEALED.
21. DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK. IT IS ACCEPTABLE TO ATTACH, I.E. CEILING SYSTEM WIRE HANGERS FROM JOISTS AND/OR BEAMS. IF NO JOIST OR BEAM, PROVIDE A STEEL STRIP.

ABBREVIATIONS LEGEND

ACC	ACCESSIBLE
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B.O.___	BOTTOM OF ___
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COORD	COORDINATE
CORR	CORRIDOR
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
EA	EACH
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EQ	EQUAL
(E), EXST	EXISTING
FF	FINISH FACE
FF EL	FINISHED FLOOR ELEVATION
FLR	FLOOR
FO	FINISHED OPENING
FP	FIRE PROTECTION
FV	FIELD VERIFY
GALV	GALVANIZED
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
INSUL	INSULATION
LAV	LAVATORY
LVR	LOUVER
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OPP	OPPOSITE
PERP	PERPENDICULAR
PLBG	PLUMBING
PLYWD	PLYWOOD
RE:	REFER TO ___
REF	REFRIGERATOR
REINF	REINFORCE, REINFORCING
RO	ROUGH OPENING
ROW	RIGHT OF WAY
SCHED	SCHEDULE
SF	SQUARE FOOT(FEET)
SIM	SIMILAR
SPEC	SPECIFICATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
T	TREAD
T&G	TONGUE & GROOVE
TEMP	TEMPORARY
T.O.	TOP OF ____
TOPO	TOPOGRAPHY, TOPOGRAPHIC
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
X	BY

PROJECT DESCRIPTION

THE SCOPE WITHIN REPRESENTS THE RENOVATION OF THREE EXISTING OBSERVATION ROOMS INTO SECURE HOLDING ROOMS (FGI 2018 2.2 - 3.1.4.3). THE ROOMS WILL BE CONVERTED SOLEY FOR THE CONTAINMENT OF THE PATIENT WITHIN THE ROOM AND WILL NOT BE USED FOR EXAMINATION. CASEWORK AND PLUMBING FIXTURES WITHIN THE ROOM ARE TO BE REMOVED. LIGHTING, ELECTRICAL FIXTURES AND FINISHES ARE TO BE UPGRADED. A WALL WILL BE ADDED TO EACH ROOM TO REDUCE THE MAXIMUM DIMENSION. DOORS WILL BE REPLACED AND A WINDOW WILL BE ADDED FROM THE HALL TO EACH ROOM FOR PATIENT OBSERVATION. ALTERNATE SCOPE IS INCLUDED FOR ADDITIONAL MODIFICTIONS TO TWO ADJACENT OBSERVATION ROOMS.

PROJECT DATA

- **CODES/ LAWS:**
  CITY OF AURORA:
  2015 INTERNATIONAL BUILDING CODE (IBC)
  2015 INTERNATIONAL EXISTING BUILDING CODE (EIBC)
  2017 NATIONAL ELECTRICAL CODE (NEC)
  2015 INTERNATIONAL MECHANICAL CODE
  2015 INTERNATIONAL PLUMBING CODE
  2015 INTERNATIONAL FUEL GAS CODE
  2015 INTERNATIONAL FIRE CODE
  2015 INTERNATIONAL ENERGY CONSERVATION CODE

  STATE OF COLORADO:
  2006 COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT - HOSPITAL LICENSING RULES
  2012 NFPA 101 - LIFE SAFETY CODE
  2018 FGI - GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS
  FEDERAL:
  2010 AMERICANS WITH DISABILITIES ACT GUIDELINES
  2009 ICC / ANSI 117.1 ACCESSIBILITY CODE

2020 NEC

- **OCCUPANCY CLASSIFICATION:**
  2015 IBC - GROUP I-2 (SECTION 308.4)
  2012 NFPA 101 - EXISTING HEALTHCARE OCCUPANCY (CHAPTER 19)
- **PRINCIPAL OCCUPANCY TYPE:** I-2
- **CONSTRUCTION TYPE:**

UBC 1 FR SPK

EXISTING: SBC - TYPE 1-A, UNRESTRAINED, FULLY SPRINKLERED

NEW: 2015 IBC - TYPE 1-A, FULLY SPRINKLERED
2012 NFPA 220 - TYPE 1 (332)

PATH architecture + planning 21

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No.	Description	Date

STATE OF COLORADO
JOHN MENNO MARTIN
401729
LICENSED ARCHITECT
10/09/2020

19-009D TMCA MEDICAL DECISION UNIT

1501 S POTOMAC ST
AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	09 OCTOBER 2020
Project Number	19-009D
Drawn by	SL
Checked by	JMN

Sheet Title

COVER & DRAWING INDEX

Sheet Number

G.101

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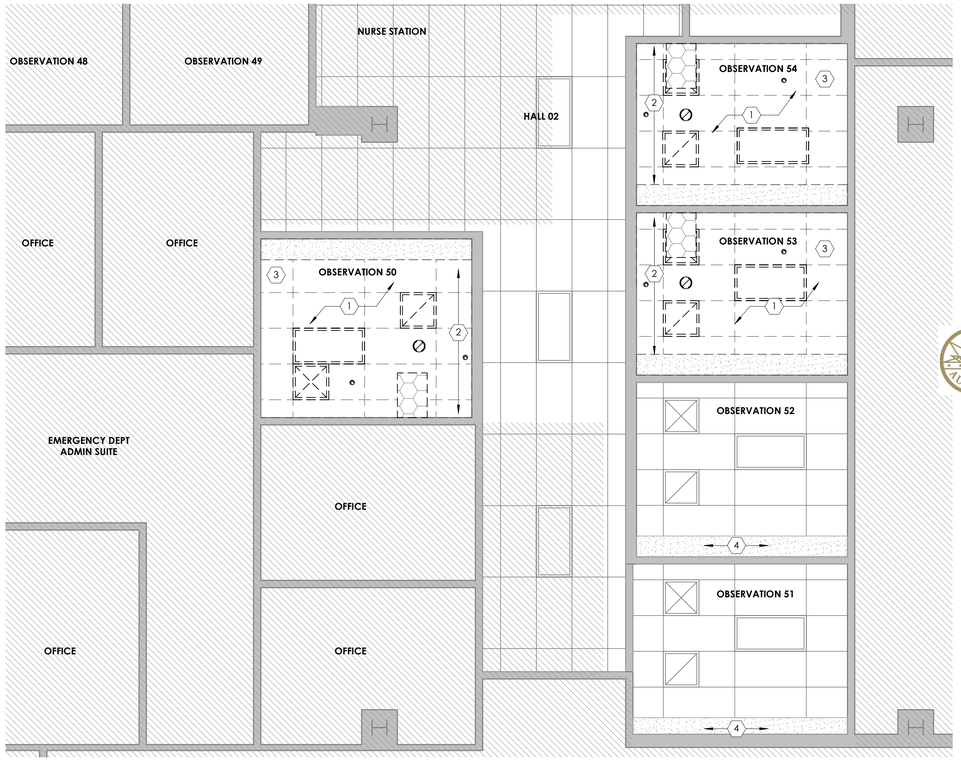
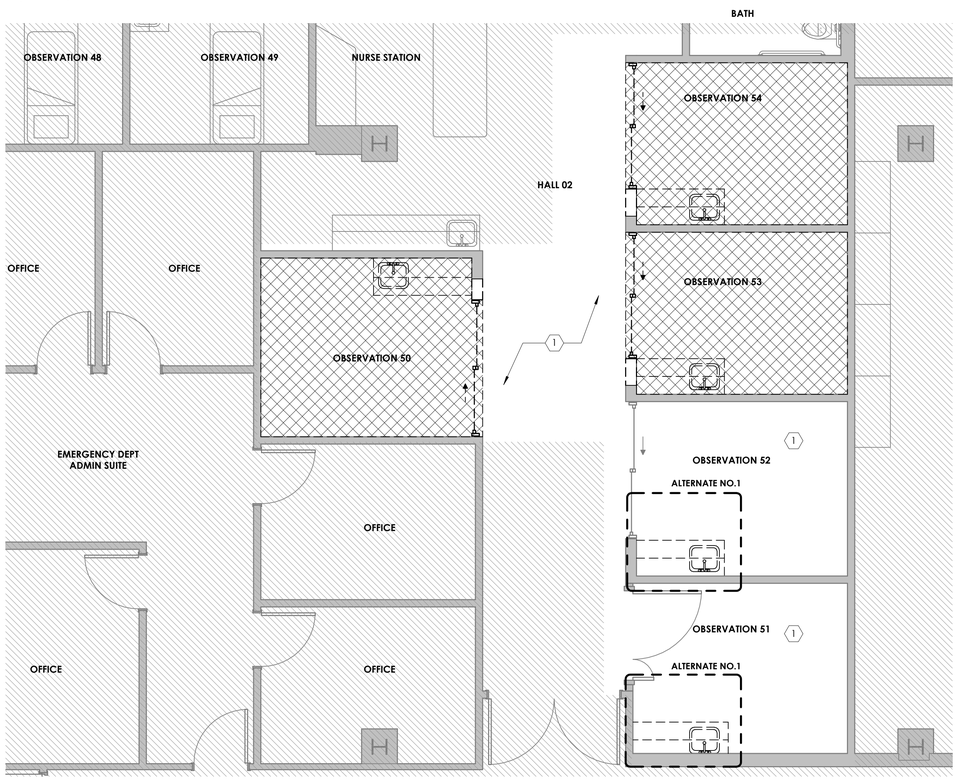


02- LEVEL 01 - DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Dec 24, 2020*
2015 INTERNATIONAL CODES & 2020 NEC



01- LEVEL 01 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"

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DEMOLITION REFLECTED CEILING PLAN NOTES

1. REFER TO SPECIFICATIONS FOR INTERIM LIFE SAFETY MEASURES.
2. THESE DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THEM AND ACTUAL CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION.
3. REPAIR ANY DAMAGED FIRE RATED ASSEMBLIES TO THEIR ORIGINAL SPECIFICATION.
4. REPLACE OR REPAIR ANY EXISTING TO REMAIN FINISHES WHICH ARE DAMAGED DURING DEMOLITION, SUCH AS CEILING GRID, CEILING TILE, WALL COVERING, FLOOR COVERING, ETC.
5. REMOVE EXISTING CONSTRUCTION AS INDICATED. TYPICAL WALL CEILING INCLUDES FINISHES, MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS CONTAINED THEREIN. REMOVE CEILING TILES, GRID, AND OTHER FIXTURES AS REQUIRED. AFTER REMOVAL OF PIPE CHASES, PATCH HOLES IN EXISTING FLOORS, WALLS, AND CEILINGS TO REMAIN TO MEET ORIGINAL FIRE PROTECTION AND STRUCTURAL REQUIREMENTS.
6. WHERE NEW FINISHES ARE TO BE INSTALLED ON EXISTING CEILING SURFACES, REMOVE THE EXISTING FINISH AND PREPARE SURFACE TO RECEIVE THE NEW FINISH.
7. COORDINATE WITH THE OWNER ANY ITEMS TO BE STORED AND/OR RELOCATED.
8. SEE CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DEMOLITION OF APPLICABLE UTILITIES.
9. THE EXISTING BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATER TIGHT CONDITION AT ALL TIMES.
10. VERIFY THAT CONSTRUCTION OF EXISTING WALLS WITHIN THE AREA OF RENOVATION (SMOKE COMPARTMENT) MEETS THE FIRE PROTECTION RATINGS DESIGNATED ON THE LIFE SAFETY PLANS.
11. VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT CONSTRUCTION.
12. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND AS SET FORTH BY ALL GOVERNING AUTHORITIES.
13. BRACE ALL EXISTING STRUCTURES OR STRUCTURAL ELEMENTS AS NECESSARY DURING DEMOLITION.
14. DO NOT CUT ANY STRUCTURAL WORK WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.

DEMOLITION FLOOR PLAN GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR INTERIM LIFE SAFETY MEASURES.
2. CONSTRUCT TEMPORARY PARTITIONS AS REQUIRED BY PHASING TO MINIMIZE THE SPREAD OF DUST AND NOISE.
3. THESE DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THEM AND ACTUAL CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION.
4. REMOVE EXISTING CONSTRUCTION AS INDICATED. TYPICAL WALL REMOVAL INCLUDES FINISHES AND MECHANICAL PLUMBING AND ELECTRICAL SYSTEMS CONTAINED THEREIN. REMOVE DOORS, CASEWORK, WINDOWS, FRAMES, AND OTHER FIXTURES AS REQUIRED. AFTER REMOVAL OF PIPE CHASES, PATCH HOLES IN EXISTING FLOORS OR WALLS TO REMAIN TO MEET ORIGINAL FIRE PROTECTION AND STRUCTURAL REQUIREMENTS. PATCH ADJOINING WALLS.
5. WHERE NEW FINISHES ARE TO BE INSTALLED ON EXISTING SURFACES, REMOVE THE EXISTING FINISH AND PREPARE SURFACE TO RECEIVE THE NEW FINISH.
6. COORDINATE WITH THE OWNER ANY ITEMS TO BE STORED AND/OR RELOCATED.
7. SEE CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DEMOLITION OF UTILITIES.
8. COORDINATE ALL FLOOR CHANNELING AND CORING WITH NEW MPE DEMOLITION AND NEW CONSTRUCTION SCOPE. GENERAL SCOPE AREAS INDICATED ON THIS DRAWING.
9. VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT CONSTRUCTION.
10. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND AS SET FORTH BY ALL GOVERNING AUTHORITIES.
11. BRACE ALL EXISTING STRUCTURES OR STRUCTURAL ELEMENTS AS NECESSARY DURING DEMOLITION.
12. DO NOT CUT ANY STRUCTURAL WORK WITHOUT PRIOR APPROVAL FROM THE DESIGN TEAM.
13. THE EXISTING BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATER TIGHT CONDITION AT ALL TIMES.
14. REPLACE OR REPAIR ANY EXISTING TO REMAIN FINISHES WHICH ARE DAMAGED DURING DEMOLITION (I.E. - CEILING GRID, CEILING TILE, WALL COVERING, FLOOR COVERING, ETC.
15. NOTIFY THE DESIGN TEAM IMMEDIATELY IF THE REMOVAL OF MECHANICAL EXISTING TO REMAIN ELECTRICAL, PLUMBING SYSTEMS OR COMPONENTS WILL ADVERSELY AFFECT THE OPERATION OF MEP SYSTEM OUTSIDE THE LIMIT OF EXISTING TO BE REMOVED - RE: NOTE 5 OF DEMOLITION GENERAL NOTES.
16. SCHEDULE ALL DEMOLITION WITH THE OWNER.

DEMOLITION REFLECTED CEILING PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- OUT OF SCOPE
- EXISTING ENCLOSURE TO BE REMOVED, RETAIN MONITOR AND ALL CORDS/ACCESSORIES FOR REINSTALLATION
- FURR DOWN SOFFIT OVER MILLWORK TO BE REMOVED
- EXISTING SUPPLY DIFFUSER TO BE REMOVED, RE: MECHANICAL
- EXISTING RETURN DIFFUSER TO BE REMOVED, RE: MECHANICAL
- EXISTING FLUORESCENT LIGHT FIXTURE TO BE REMOVED, RE: ELECTRICAL
- ACOUSTIC CEILING TILE TO BE REMOVED WITHIN AREA INDICATED

DEMOLITION FLOOR PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- OUT OF SCOPE
- EXISTING FLOOR AND BASE TO BE REMOVED WITHIN AREA INDICATED. PREPARE FOR INSTALLATINO OF NEW SHEET FLOORING.

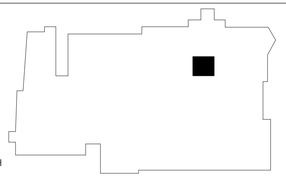
DEMOLITION REFLECTED CEILING PLAN NOTES

1. DETECTION, SECURITY AND FIRE SPRINKLER DEVICES TO BE REMOVED, RE: MEP
2. CURTAIN AND TRACK TO BE REMOVED
3. ALL ABOVE CEILING WOOD FRAMING TO BE REMOVED
4. PROTECT EXISTING SOFFIT IF ALTERNATE NO. 1 SCOPE IS ACCEPTED.

DEMOLITION KEYNOTES

1. PROTECT EXISTING FLOOR FINISH DURING CONSTRUCTION

KEY PLAN



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JOHN MENNO MAES
401729
LICENSED ARCHITECT
10/09/2020

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1501 S POTOMAC ST
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Issue	ISSUE FOR CONSTRUCTION
Date	09 OCTOBER 2020
Project Number	19-009D
Drawn by	SL
Checked by	JMN

Sheet Title
DEMOLITION FLOOR + REFLECTED CEILING PLANS

Sheet Number
D.201

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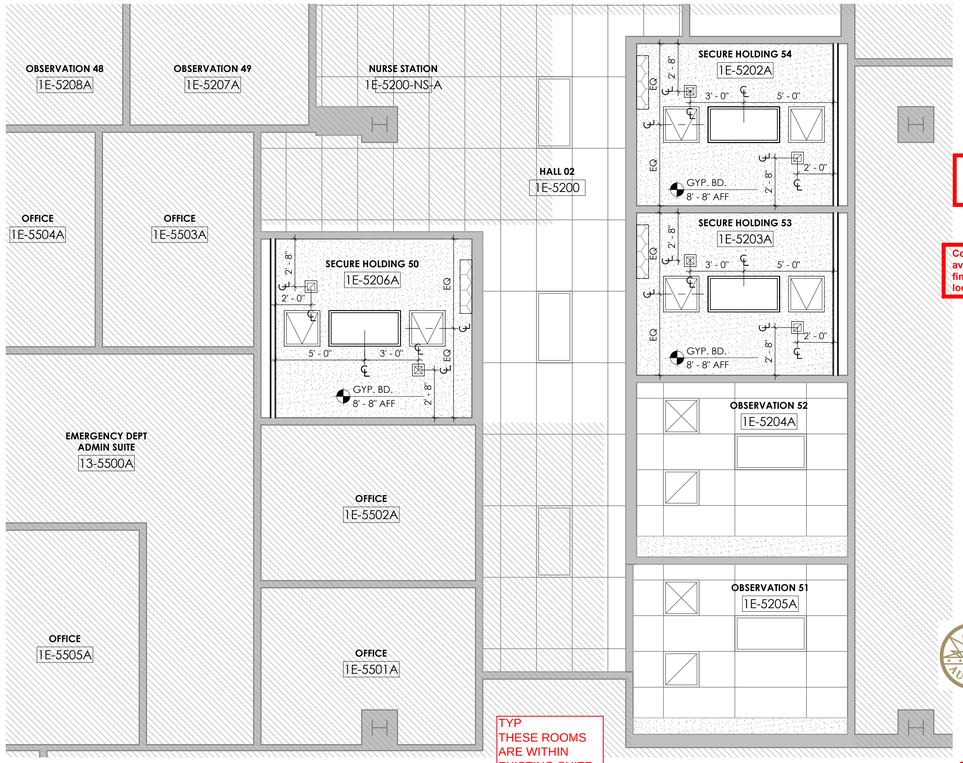
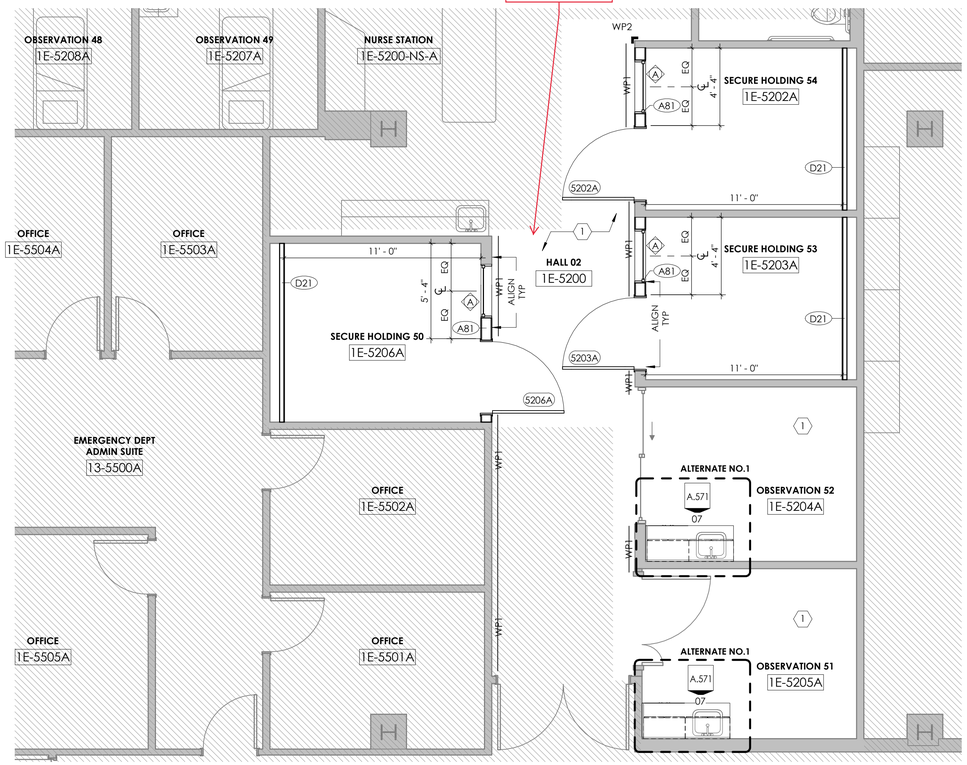


02-LEVEL 01 - REFLECTED CEILING PLAN
1/4" = 1'-0"



01-LEVEL 01 - FLOOR PLAN
1/4" = 1'-0"

Provide U.L. Class 2A10BC minimum rating fire extinguishers at a maximum 50'-0" travel distance prior to the Certificate of Occupancy issuance 2015 IFC Table 906.3[1] and 2013 NFPA 10

Consultation for fire extinguisher placement is available upon request. Call 303-739-7420 prior to final Life Safety inspection to verify proposed locations.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Dec 24, 2020*
2015 INTERNATIONAL CODES & 2020 NEC

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

SEPARATE FIRE ALARM PERMIT REQUIRED: Due to the proposed work the general contractor is required to obtain the services of a fire alarm contractor to determine if a separate alarm permit is required. If it is determined that the spacing of the fire alarm devices is not in compliance, then a separate fire alarm permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. **2015 IFC, Section 105.7.6.**

SEPARATE FIRE SPRINKLER PERMIT REQUIRED: Due to the proposed work the general contractor is required to obtain the services of a fire sprinkler contractor to determine if a separate sprinkler permit is required. If it is determined that the spacing of the fire sprinkler heads is not in compliance, then a separate fire sprinkler permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. **2015 IFC, Section 105.7.1.**

REFLECTED CEILING PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL COMPARE THIS REFLECTED CEILING PLAN WITH ELECTRICAL LIGHTING PLANS, MECHANICAL SUPPLY, RETURN, AND EXHAUST PLANS. THE CONTRACTOR SHALL REPORT ANY OMISSIONS OR INCONSISTENCIES TO THE ARCHITECT.
2. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, EXIT SIGNAGE, FIRE ALARM DEVICES, WALL MOUNTED EXIT LIGHTS, ETC.
3. FOR FURTHER DIMENSIONS SEE ENLARGED PLANS, SECTIONS, ELEVATIONS, AND DETAILS.
4. COORDINATE GYPSUM BOARD FURR DOWN HEIGHTS WITH FULL HEIGHT CABINETS AND INTERIOR ELEVATIONS.
5. SPRINKLER HEAD LOCATIONS ARE NOT SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
6. 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF EXTENDED SPRINKLER HEADS AND THE TOP OF ANY FILES, SHELVING, LOCKERS, ETC.
7. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF TYPE SPECIFIED ARE INSTALLED IN NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS MAY BE REQUIRED. ACCESS PANELS SHALL BE THE FIRE RATED TYPE EQUAL TO THE RATING OF THE CEILING IN WHICH THEY OCCUR.
8. PRE-MANUFACTURED SHOWER UNITS ARE PROVIDED WITH LIGHT FIXTURES (REF: ELECTRICAL DRAWINGS FOR CONNECTION.)
9. RELOCATE SUPPLY DRAIN AND VENT PIPES TO MAINTAIN SCHEDULED CEILING HEIGHTS, COORDINATE RELOCATIONS WITH MEP ENGINEERS.
10. WHERE EXISTING LAY-IN CEILINGS ARE TO REMAIN, THE CONTRACTOR SHALL REPLACE ANY TILE THAT HAS BEEN DAMAGED WITH MATERIALS THAT MATCH THE EXISTING FOR COLOR, TEXTURE, PATTERN, ETC., IF UNIFORMITY CANNOT BE ACHIEVED, THE CONTRACTOR SHALL REPLACE THE ENTIRE CEILING WITHIN THE SPACE WITH NEW MATERIAL.

REFLECTED CEILING PLAN LEGEND

- OUT OF SCOPE
- SUSPENDED 2' x 4' ACOUSTICAL CEILING SYSTEM
- GYPSUM WALL BOARD CEILING
- CEILING TYPE / 1' - 0" AFF — CEILING HEIGHT DESIGNATION
- NEW RECESSED FLUORESCENT LIGHT FIXTURE
- EXISTING RECESSED FLUORESCENT LIGHT FIXTURE TO REMAIN
- SUPPLY AIR GRILLE REF: MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- RETURN AIR GRILLE REF: MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- EXHAUST AIR GRILLE REF: MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- LOCKING ACCESS PANEL, CONTRACTOR TO LOCATION IN FIELD ADJACENT TO JUNCTION BOXES/MECHANICAL CONTROLS/ETC ABOVE CEILING
- RECESSED CAN LIGHT FIXTURE
- CEILING MOUNTED SECURITY CAMERA
- PROVIDE PROENC SUICIDE RESISTANT CEILING-MOUNTED TV ENCLOSURE SIZE NL26 INSTALLED TIGHT TO CORRIDOR WALLS, CENTERED ABOVE WINDOWS. REINSTALL SALVAGED MONITOR.

REFLECTED CEILING PLAN KEYNOTES

- ADD NOTE HERE
- ADD NOTE HERE

FLOOR PLAN GENERAL NOTES

1. PARTITION TYPES ARE SCHEDULED IN THE A.500 SERIES. RE: G.40X SERIES "CODE COMPLIANCE PLANS" FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS.
2. REFER TO SHEET G.101 FOR ADDITIONAL GENERAL NOTES.
3. ALL PARTITIONS ARE TYPE "A41" UNLESS OTHERWISE NOTED.
4. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF FINISH OF INTERIOR WALLS, TO CENTER LINE OF COLUMNS AND TO THE FACE OF CONCRETE OR MAINSONRY WALLS, UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS TO FINISH FACE OF NEW STUD WALL, UNLESS OTHERWISE INDICATED.
5. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE AUGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED, STUDS SHALL BE OFFSET AND ADDITIONAL LAYERS OF GYPSUM BOARD SHALL BE PROVIDED AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD.
6. CLINICAL SINKS SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE SINK IS 1'- 6" MINIMUM TO THE FACE OF THE ADJACENT FIXED EQUIPMENT, SIDEWALL, CASEWORK, ETC.
8. ALL PATIENT CORRIDORS AND PASSAGEWAYS SHALL BE 8'-0" MINIMUM CLEAR WIDTH.
8. SEE ARCHITECTURAL ENLARGED PLANS FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
9. LAVATORIES AND SINKS SHALL BE ACCOMPANIED BY A PAPER TOWEL DISPENSER "TA2/3" AND SOAP DISPENSER "TA8" UNLESS OTHERWISE NOTED ON THE FLOOR PLANS.
10. SEE A.500 SERIES FOR ENLARGED PLAN AT A TYPICAL DRINKING FOUNTAIN ALCOVE.
11. REFER TO THE A.530 SERIES FOR MISCELLANEOUS DETAILS.
12. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR (EXCLUDING PATIENT BEDROOMS), UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
13. PROVIDE A 1'-4" WIDE CHASE BEHIND SINGLE SIDED TOILETS, AND A 1'-8" WIDE CHASE BETWEEN BACK TO BACK TOILETS, FOR WALL HUNG FIXTURES. FOR FLOOR MOUNTED FIXTURES PROVIDE A 6" STUD, MINUMUM.
14. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'- 3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
15. SEE OWNER FURNISHED VENDOR DRAWINGS FOR CRITICAL DIMENSIONS IN THESE SPACES. REFERENCE INDEX SHEET FOR LOCATION OF VENDOR DRAWINGS IN SET.
16. REFER TO THE A.210 SERIES, "EQUIPMENT PLANS" FOR WALL PROTECTION LOCATIONS.

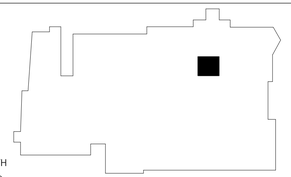
FLOOR PLAN LEGEND

- OUT OF SCOPE
- NEW CONSTRUCTION
- EXISTING TO REMAIN
- (1) — INTERIOR WINDOW TAG REF: A.541 FOR SCHEDULE
- (XXX) — DOOR TAG REF. A.541 FOR DOOR SCHEDULE
- (A41) — PARTITION TAG REF. A.541 FOR TYPE CHARTS
- 1 / A.100 / 1 — INTERIOR ELEVATION TAG
- WP1 — SHEET/RAIL WALL PROTECTION RE: DETAILS ON SHEET I.101
- WP2 — WALL PROTECTION CORNER GUARD RE: DETAILS ON SHEET I.101

FLOOR PLAN KEYNOTES

- (1) PROTECT EXISTING FLOORING FINISH DURING CONSTRUCTION
- NOT USED

KEY PLAN



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No.	Description	Date

STATE OF COLORADO
JOHN MENNO MAST
401729
LICENSED ARCHITECT
10/09/2020

19-009D TMCA MEDICAL DECISION UNIT

1501 S POTOMAC ST
AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	09 OCTOBER 2020
Project Number	19-009D
Drawn by	JMN
Checked by	SL

Sheet Title

FLOOR + REFLECTED CEILING PLANS

Sheet Number

A.201

10/9/2020 2:06:08 PM

DOOR SCHEDULE

DOOR NO	ROOM NAME	DOOR SIZE W	HT	THK	TYPE	MTL	FINISH	GLZ	FRAME TYPE	FRAME MTL	FRAME FINISH	DETAILS HEAD	JAMB	SILL	FIRE RATING	DOOR HARDWARE	REMARKS
5206A	SECURE HOLDING 50	4' - 0"	7' - 0"	0' - 1 3/4"	F	SC	PL	-	A	HM	PNT	07/A.541	06/A.541	-	NR	6.00	1
5203A	SECURE HOLDING 53	4' - 0"	7' - 0"	0' - 1 3/4"	F	SC	PL	-	A	HM	PNT	07/A.541	06/A.541	-	NR	6.00	1
5202A	SECURE HOLDING 54	4' - 0"	7' - 0"	0' - 1 3/4"	F	SC	PL	-	A	HM	PNT	07/A.541	06/A.541	-	NR	6.00	1
Grand total: 3																	

REMARKS

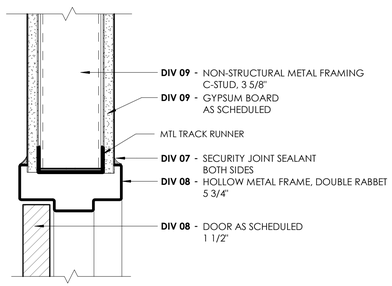
1. SEE FINISH LEGEND FOR ADD ALTERNATE DOOR FINISH

DOOR HARDWARE

HARDWARE #	LOCKSET QTY	TYPE	PRODUCT #	MFR	FINISH	KEYWAY QTY	TYPE	PRODUCT #	MFR	HINGES QTY	TYPE/SIZE	PRODUCT #	MFR	FINISH	FLOOR STOP QTY	PRODUCT #	MFR	FINISH	REMARKS
6.00	(1) EA	CLASSROOM	L9070 HSLR	SCH	630	(1) EA	CORE	KABA PEAKS	SCH	(1) EA	CFM120SLFHD1	CC8 W/ HOSPITAL TIP	PEM	652	(1) EA	FS436	IVE	626	

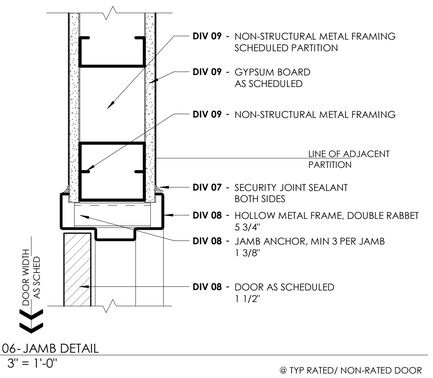
REMARKS

1. NOT USED



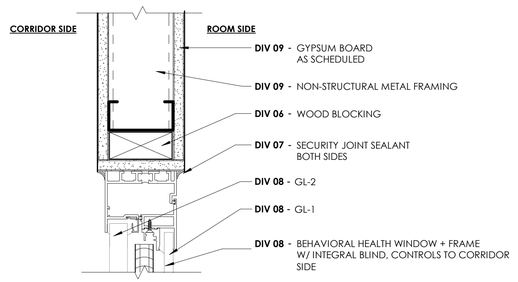
07 - HEAD DETAIL
3" = 1'-0"

@ TYP RATED/ NON-RATED DOORS

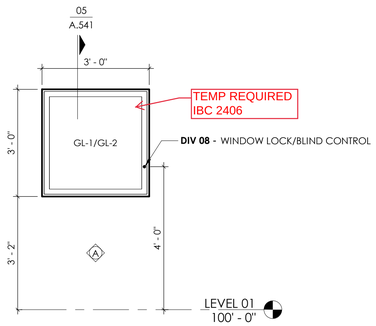


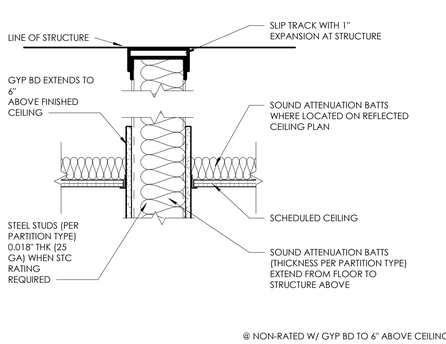
06 - JAMB DETAIL
3" = 1'-0"

@ TYP RATED/ NON-RATED DOOR



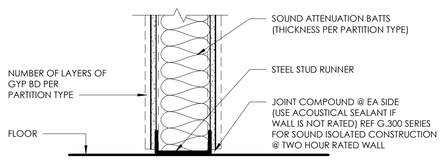
05 - HEAD/SILL/JAMB DETAIL @ TYPICAL INTERIOR WINDOW
3" = 1'-0"





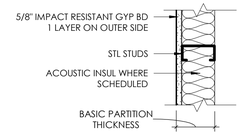
@ NON-RATED W/ GYP BD TO 6" ABOVE CEILING

04 - PARTITION HEAD SECTION
1 1/2" = 1'-0"



02 - PARTITION FLOOR SECTION
1 1/2" = 1'-0"

WHERE STUDS & GYPSUM BOARD STOP AT THE FLOOR

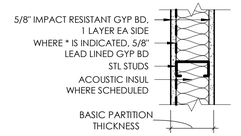


D

NOTE:
1. STC'S ARE PREDICTED USING THE "INSUL" COMPUTER PROGRAM.
2. STC'S ARE BASED ON 0.018" THICK (25 GA) STUDS.
3. REFER TO A.500 SERIES FOR BRACING.

	D1_	STC	D2_	STC	D3_	STC	D4_	STC	D5_	STC	D6_	STC	D7_	STC	D8_	STC	D9_	STC
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	D11	27	D21	29	D31	27	D41	30	D51	27	D61	30	D71	27	D81	31	D91	26
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	D12		D22		D32		D42		D52		D62		D72		D82		D92	
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	D13		D23		D33		D43		D53		D63		D73		D83		D93	
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"		1 1/2"	
BASIC PARTITION THICKNESS	3 1/8"		3 1/8"		4 1/4"		4 1/4"		4 5/8"		4 5/8"		6 5/8"		6 5/8"		2 1/8"	
ACOUSTICAL INSULATION THICKNESS	-		2"		-		3"		-		3"		-		5 1/2"		1"	
ACOUSTICAL TEST NUMBER	NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1	
FIRE TEST NUMBER (WHERE APPLICABLE)																		

03 - PARTITION TYPE "D"
1 1/2" = 1'-0"



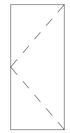
A

NOTE:
1. STC IS PREDICTED USING THE "INSUL" COMPUTER PROGRAM.
2. STC IS MODIFIED FROM THE REFERENCE.
3. STC IS BASED ON 0.018" THICK (25 GA) STUDS
4. WHERE AN * NEXT TO THE PARTITION TAG, A SINGLE LAYER OF LEAD LINED GYPSUM BOARD IN LIEU OF TYPE X GYPSUM BOARD ON THE PROCEDURE ROOM SIDE OF THE WALL. NOT TO BE USED FOR FIRE RATED WALLS.

	A1_	STC	A2_	STC	A3_	STC	A4_	STC	A5_	STC	A6_	STC	A7_	STC	A8_	STC
1-HR RATED WITH GYP BD TO STRUCTURE ABOVE			A20	46	A30	39	A40	47	A50	39	A60	47	A70	40	A80	48
NON-RATED WITH GYP BD TO STRUCTURE ABOVE (SMOKE RESIST)	A11	39	A21	46	A31 (*)	39	A41 (*)	47	A51 (*)	39	A61 (*)	47	A71 (*)	40	A81 (*)	48
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	A12		A22		A32 (*)		A42 (*)		A52 (*)		A62 (*)		A72 (*)		A82 (*)	
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	A13		A23		A33		A43		A53		A63		A73		A83	
PARTIAL HEIGHT PARTITION, SEE FLOOR PLANS FOR HEIGHTS.	A14		A24		A34		A44		A54		A64		A74		A84	
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"	
BASIC PARTITION THICKNESS	3 3/4"		3 3/4"		4 7/8"		4 7/8"		5 1/4"		5 1/4"		7 1/4"		7 1/4"	
ACOUSTICAL INSULATION THICKNESS	-		2"		-		3"		-		3"		-		5 1/2"	
ACOUSTICAL TEST NUMBER	SIM USG 860808		SIM SA 831001		SIM USG 860808		SIM USG 870717		SIM USG 860808		SIM SA 870717		SIM USG 860808 NOTE 3		SIM USG 870717 NOTE 4	
FIRE TEST NUMBER (WHERE APPLICABLE)	-		UL DES U419		UL DES U465		UL DES U465		UL DES U465		UL DES U465		UL DES U465		UL DES U465	

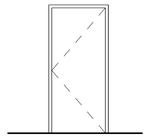
01 - PARTITION TYPE "A"
1 1/2" = 1'-0"

DOOR TYPES



F
FLUSH

DOOR FRAME TYPES



A
RABBETED

DOOR SCHEDULE ABBREVIATIONS

MATERIAL:
HM - HOLLOW METAL
SC - SOLID CORE
SR - SMOKE RESISTANT
(E) - EXISTING
NA - NOT APPLICABLE
GL-1 - GLAZING 1. REFER TO SPECIFICATIONS FOR MORE INFORMATION

FINISH:
*REFER TO FINISH LEGEND FOR MORE INFORMATION
PNT - PAINTED FINISH
PL - PLASTIC LAMINATE

HARDWARE MANUFACTURERS:
IVE - IVES
SCH - SCHLAGE
LCN - LCN
VON - VON DUPRIN
PEM - PEMKO
(ME) - MATCH EXISTING

GLAZING LEGEND

TYPE	RE: TO SPECIFICATIONS FOR MORE INFORMATION
GL-1	PLASTIC GLAZING, 5/16" THICK
GL-2	TEMPERED GLAZING, 1/4" THICK

PARTITION TYPE GENERAL NOTES

1. REFER TO FLOOR PLAN SERIES A.200 FOR LOCATION OF PARTITION TYPES. ALL PARTITIONS ARE TYPE " A#1 " UNLESS NOTED OTHERWISE. NOT ALL PARTITION TYPES SHOWN ARE UTILIZED.
2. REFER TO THE I.200 SERIES FOR FINAL FINISHES ON PARTITIONS. PARTITION TYPES IN CHARTS REFER TO BASE WALL ONLY.
3. WHEN BLOCKING REQUIRED IN A PARTITION, USE A MINIMUM .033" (20 GA) STUD.
4. PROVIDE ONE LAYER OF 5/8" GLASS MATT INTERIOR AT WALLS BEHIND SINKS AND LAVATORIES WITHOUT TILE. GLASS MATT INTERIOR TYPE BOARD SHALL BE INSTALLED WITHIN 2' OF ALL URINALS AND WATER CLOSETS, TO A HEIGHT OF A 4' AFF (AT WALLS W/ OUT TILE).
5. PROVIDE FIRE TREATED WOOD BLOCKING, SHEET METAL OR STEEL BACKING IN PARTITIONS TO SUPPORT WALL MOUNTED ITEMS AND EQUIPMENT, FOR EXAMPLE, AT CABINETS, HANDRAILS, GUARDRAILS, TOILET PARTITIONS AND ACCESSORIES, WALL-MOUNTED EQUIPMENT, ETC.
6. "LINE OF STRUCTURE" AS SHOWN AT THE HEAD CONDITIONS OF THE PARTITION DETAIL DOES NOT INDICATE THE EXACT CONSTRUCTION CONDITION.
7. ISOLATE NON-LOAD BEARING FRAMING FROM STRUCTURAL ELEMENTS TO PREVENT THE TRANSFER OF LOAD TO PARTITION FRAMING. STOP STUD BELOW METAL RUNNER (TOP TRACK) TO ALLOW FOR VERTICAL EXPANSION. SET TOP TRACK 1" BELOW DEFLECTION TRACK. DO NOT ATTACH STUDS TO TOP TRACK. DO NOT ATTACH GYPSUM BOARD TO THE DEFLECTION TRACK. THIS MAY ALSO BE ACHIEVED, AT THE CONTRACTORS OPTION, BY UTILIZING THE PROPRIETARY SYSTEM DESCRIBED IN THE PROJECT MANUAL.

ACOUSTICAL PARTITIONS

THE FOLLOWING NOTES APPLY TO ALL PARTITIONS DESIGNATED TO HAVE A SOUND TRASMISSION CLASS (STC) RATING ON THE PARTITION CHARTS. REFER TO DETAILS ON THE A.500 SERIES FOR PARTITION TYPES WITH A DESIGNATED STC RATING.

1. ALL ACOUSTICALLY CLASSED PARTITIONS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE TO THE REFERENCED TEST.
2. STAGGER AND SEAL ALL JOINTS ON MULTIPLE GYPSUM BOARD LAYER PARTITIONS.
3. SEAL PARTITIONS AIR TIGHT AT FLOORS, SIDES, AND CEILINGS ON BOTH SIDES WITH NON-HARDENING ACOUSTICAL SEALANT, UON.
4. ALL BATTS AND BLANKETS IN RATED PARTITIONS MUST BEAR THE REQUIRED UL CLASSIFICATION MARKING AS TO FIRE- RESISTANCE. REFER TO CODE COMPLIANCE DETAILS IN THE G.300 SERIES.
5. AT ACOUSTICALLY RATED PARTITIONS, DO NOT FILL THE STUD CAVITY (DEPTH) FULLY WITH SOUND BATTS. THE WIDTH OF THE SOUND BATTS SHOULD BE SLIGHTLY SMALLER THAN CAVITY TO AVOID BATT COMPRESSION; HOWEVER, THE ENTIRE LENGTH AND HEIGHT OF THE PARTITION SHOULD HAVE CONTINUOUS AND UNINTERRUPTED SOUND ATTENUATION BATTS.
6. SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS AT ACOUSTICALLY CLASSED PARTITIONS.
7. SEAL ALL CONDUIT, STRUCTURAL, DUCT AND LARGE PIPE PENETRATIONS TO MAINTAIN THE ACOUSTIC RATING OF THE WALL.
8. OUTLETS ON OPPOSITE SIDES OF ACOUSTICALLY CLASSED PARTITIONS SHOULD BE SEPARATED BY A MINIMUM OF ONE STUD.
9. THE ARCHITECT SHALL OBSERVE THAT ALL BOXES REQUIRED TO BE ACOUSTICALLY SEALED ARE SEALED PRIOR TO CLOSING IN PARTITIONS AND INSTALLING DEVICES AND COVER PLATES.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Dec 24, 2020*
2015 INTERNATIONAL CODES & 2020 NEC

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

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No.	Description	Date

STATE OF COLORADO
JOHN MENNO MAAT
401729
LICENSED ARCHITECT
10/09/2020

19-009D TMCA MEDICAL DECISION UNIT

1501 S POTOMAC ST
AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	09 OCTOBER 2020
Project Number	19-009D
Drawn by	SL
Checked by	JMN

Sheet Title
DOOR + WINDOW SCHEDULES + INTERIOR DETAILS

Sheet Number
A.541

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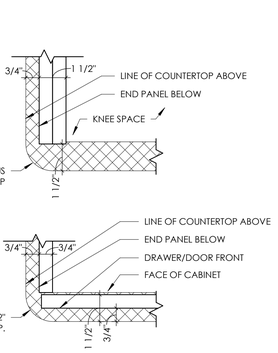
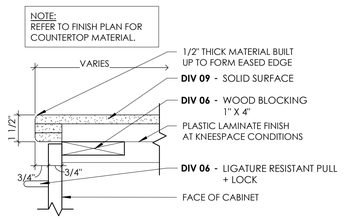
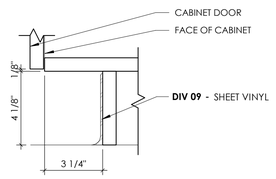


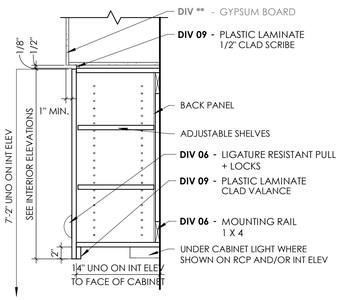
06 - PLAN DETAIL COUNTER TOP CORNER
3" = 1'-0"



05 - SECTION DETAIL - SOLID SURFACE MAT.
3" = 1'-0"

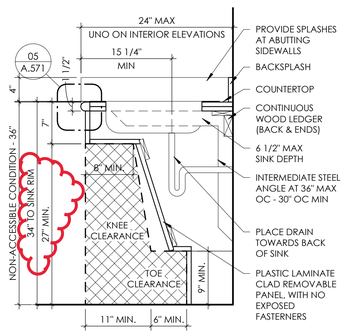


04 - SECTION DETAIL - TOEKICK
3" = 1'-0"

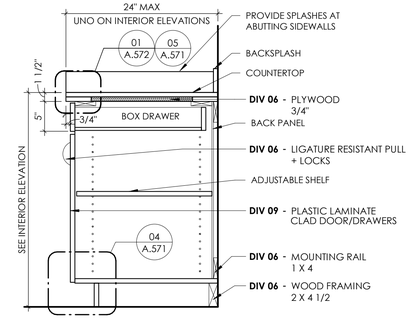


NOTE: REFER TO THIS TYPICAL DETAIL E1 FOR MATERIALS AND DIMENSIONS OF TYPE "E" UPPER CABINETS.

03 - E1 - UPPER CABINET
1" = 1'-0"
WITH DOORS

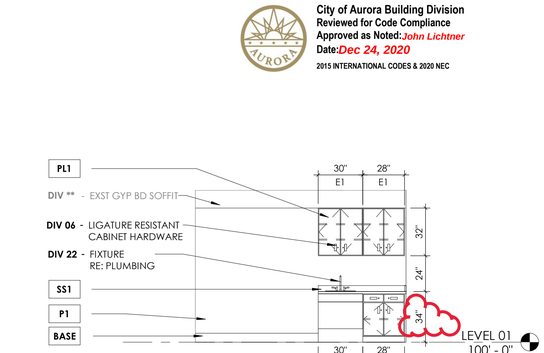


02 - C2 - ACCESSIBLE SINK
1" = 1'-0"



NOTE: REFER TO THIS TYPICAL DETAIL A1 FOR MATERIALS, DIMENSIONS, AND DETAIL ENLARGEMENTS OF TYPE "A" BASE CABINETS. REFER TO INTERIOR FINISH PLAN FOR COUNTERTOP MATERIAL.

01 - A1 - KNEE SPACE W/ DRAWER
1" = 1'-0"
WITH DOOR + DRAWER



*NOTE: RE: FINISH LEGEND FOR MATERIALS

07 - TYPICAL CASEWORK ELEVATION - ALTERNATE NO. 1
1/4" = 1'-0"

ARCHITECTURAL CASEWORK GENERAL NOTES

ALL CASEWORK:

1. ALL SECTION DETAILS ON THIS SHEET MAY NOT APPLY TO THIS PROJECT.
2. ARCHITECTURAL WOODWORK TYPES, WIDTHS, AND HEIGHTS ARE INDICATED ON THE A.56X SERIES SHEETS.
3. FIELD VERIFY EXISTING DIMENSIONS PRIOR TO FABRICATION. NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO FABRICATION.
4. VERIFY AND COORDINATE CLEAR DIMENSIONS REQUIRED FOR OWNER-FURNISHED EQUIPMENT LOCATED WITHIN OR ADJACENT TO ANY CABINETS.
5. COORDINATE INSTALLATION OF SINKS WITH ASSOCIATED PIPING AND FITTINGS PLUS WITH INSTALLATION OF ACCESSIBLE COVER PANELS.
6. REQUIRED SCRIBES AND FILLER PIECES SHALL BE INSTALLED TO ALLOW PROPER OPERATION OF DRAWERS/DOORS. THEY SHALL BE EVENLY DISTRIBUTED AND OF EQUAL WIDTH ALONG A SINGLE RUN OF CABINETS. THEY SHALL BE 3" WIDE. MAXIMUM EXCEPT INSIDE CORNER FILLERS SHALL BE 2 1/2" WIDE MINIMUM. REF TO TYP. CASEWORK DETAILS ON SHEET A.571, INSIDE CORNER DETAIL.
7. WHERE BASE CABINETS INTERSECT AT INSIDE CORNER CONDITION PROVIDE WALL MOUNTED LEDGERS TO SUPPORT COUNTERTOP AT CORNERS. WHERE UPPER CABINETS INTERSECT AT INSIDE CORNER CONDITIONS PROVIDE HORIZONTAL FILLER PANEL FLUSH WITH BOTTOM OF CABINETS.
8. PROVIDE PLASTIC SCREW COVERS TO CONCEAL SCREW HEADS AT ALL SEMI-EXPOSED CABINET SURFACES. ALL EXPOSED SCREWS SHALL BE COUNTERSUNK.
9. CORE MATERIAL FOR SHELVING GREATER THAN 30" WIDE SHALL BE 1" THICK.
10. REFERENCE TOILET ACCESSORY LEGEND AND MOUNTING HEIGHTS IN A.500 SERIES.
11. PROVIDE FILLER PANELS AS NEEDED BETWEEN BUILT-IN APPLIANCES AND ADJACENT CABINETS OR WALLS.
12. ALL VERTICAL JOINTS BETWEEN CABINETS SHALL BE BUTT JOINTS. THEY SHALL LOOK "SEAMLESS" AND BE COVERED IN PLASTIC LAMINATE.
13. ALL EXPOSED SURFACES ON CABINETS WITHOUT DOORS SHALL BE CLAD IN PLASTIC LAMINATE UNO. NO EXPOSED MELAMINE UNO ON INTERIOR ELEVATIONS.

BASE CABINETS:

1. PROVIDE PLASTIC LAMINATE CLADDING ON ALL SURFACES OF BUILT IN DESKS AT KNEE SPACES AND EXPOSED ENDS OF DESK UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS.
2. PROVIDE SCHEDULED BASE ALONG BOTTOM OF EXPOSED FRONTS, BACKS, SIDES, AND ENDS OF ALL FIXED CABINETS, PEDESTALS, VERTICAL SUPPORT PANELS, AND KNEE SPACES, ETC UNLESS NOTED OTHERWISE ON THE INTERIOR ELEVATIONS.
3. ALL DRAWER LENGTHS SHALL BE 20" UNLESS NOTED OTHERWISE. ALL DRAWERS GREATER THAN 30" WIDE SHALL HAVE TWO PULLS.
4. ALL HORIZONTAL AND VERTICAL REVEALS SHALL BE 1/8".
5. ALL TOEKICK SPACES SHALL BE 4 1/8" TALL X 3 1/4" DEEP UNLESS NOTED OTHERWISE. REF TO TYP CASEWORK DETAILS ON SHEET A.571.

COUNTERTOPS:

1. ALL COUNTERTOPS ARE TO BE 24" DEEP UNO ON INTERIOR ELEVATIONS.
2. ALL OUTSIDE COUNTERTOP CORNERS TO BE 1 1/2" RADIUS (IN PLAN) UNLESS NOTED OTHERWISE REF TO TYP. CASEWORK DETAILS ON SHEET A.571, COUNTERTOP CORNER DETAIL.
3. PROVIDE WALL MOUNTED BRACKETS (FIELD PAINTED FOR SUPPORT OF COUNTERTOPS AT KNEE SPACES. COUNTERTOPS SHALL BE SUPPORTED 30" MINIMUM - 36" MAXIMUM OC COORDINATE LOCATION WITH KEYBOARD TRAYS AND CPU HOLDERS. REF. INTERIOR ELEVATIONS FOR LOCATIONS OF COUNTERTOP BRACKETS.
4. LOCATE GROMMETS AT BACK OF COUNTERTOPS EVERY 36" OC WITH A MINIMUM OF 1 PER KNEE SPACE UNLESS NOTED OTHERWISE ON THE EQUIPMENT PLAN. COORDIANTE FINAL GROMMET LOCATIONS WITH OWNER, EXCEPTION: DO NOT PROVIDE GROMMETS AT ACCESSIBLE PORTION OF COUNTER, AS INDICATED ON THE EQUIPMENT PLANS.
5. REFER TO INTERIOR ELEVATIONS AND FINISH LEGEND FOR COUNTERTOP MATERIAL. ALL COUNTERTOPS AT SINKS TO BE SOLID SURFACE MATERIAL UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS. REF TO TYP. CASEWORK DETAILS ON SHEET A.571 FOR SOLID SURFACE MATERIAL COUNTERTOP EDGE DETAIL AND FOR PLASTIC LAMINATE COUNTEROP EDGE DETAIL.
6. ALL BACK AND SIDE SPLASHES SHALL BE 4" TALL X 3/4" THICK IF PLASTIC LAMINATE, 1/2" THICK IF SOLID SURFACE MATERIAL UNO ON THE INTERIOR ELEVATIONS. ALL SPLASHES SHALL BE SCRIBED TO CONFORM TO THE SURFACE OF ABUTTING WALLS. ALL SPLASHES SHALL BE SEALED TO THE WALL WITH CLEAR SILICONE SEALANT. IF SOLID SURFACE, PROVIDE SPLASHES ON ALL REAR AND SIDE WALLS AT BASE CABINETS.

UPPER CABINETS:

1. TOP OF UPPER AND FULL HEIGHT CABINETS SHALL BE 7'-2" AFF UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS. REF A.560 SERIES SHEETS.
2. REFERENCE SERIES A.220 AND A.560 FOR FURDOWN LOCATIONS. WALL CABINETS WITHOUT A FURR DOWN ABOVE SHALL RECEIVE A CONTINUOUS 6" HIGH SLOPED PANEL, FINISHED TO MATCH CABINETS UNLESS NOTED OTHERWISE.
3. WALL MOUNTED UPPER CABINETS SHALL INCLUDE ADJUSTABLE SHELVES UNLESS NOTED OTHERWISE.

CABINET HEIGHT	NUMBER OF SHELVES
UP TO 24"	1
25" THROUGH 42"	2
43" THROUGH 48"	3

4. TOPS AND BOTTOMS OF WALL HUNG CABINETS SHALL BE 3/4" THICK WITH PLASTIC LAMINATE ON ALL EXPOSED SURFACES.
5. BACKS OF WALL HUNG CABINETS SHALL BE 1/4" THICK UNLESS NOTED OTHERWISE. BACKS OF BASE CABINETS SHALL BE 1/4" THICK UNLESS NOTED OTHERWISE.

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No.	Description	Date

19-009D TMCA MEDICAL DECISION UNIT

1501 S POTOMAC ST
AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	09 OCTOBER 2020
Project Number	19-009D
Drawn by	SL
Checked by	JMN

Sheet Title
DOOR + WINDOW SCHEDULES + INTERIOR DETAILS

Sheet Number
A.541

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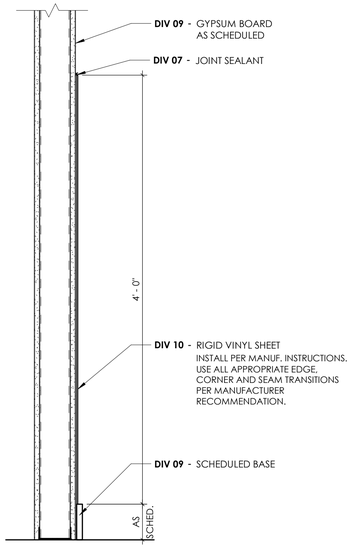
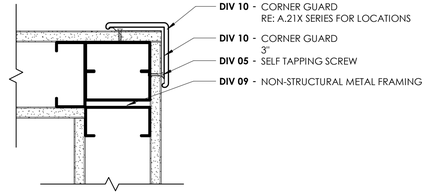


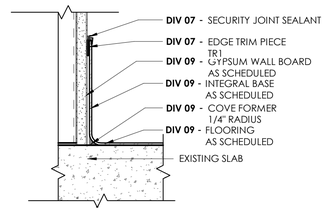
04-TYPICAL WALL PROTECTION SECTION
1 1/2" = 1'-0"

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Dec 24, 2020*
2015 INTERNATIONAL CODES & 2020 NEC

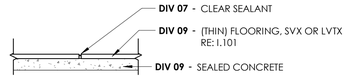


*NOTE: CORNER GUARD TO BE MOUNTED ABOVE SCHEDULE BASE

03-WP2 SINGLE CORNER GUARD - DETAIL
3" = 1'-0"



05-TYPICAL INTEGRAL BASE
3" = 1'-0"



02-SAME HEIGHT FLOORING TRANSITION
6" = 1'-0"

01 - LEVEL 01 - FINISH PLAN
1/4" = 1'-0"

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FINISH LEGEND

CEILING
GYP
Gypsum Board ceiling, painted as noted on finish plan

MILLWORK
PL1 (doors and add alternate no.1 casework)
Manuf: Wilsonart
Color: Shaker Cherry 7935

SS1 (add alternate no. 1 countertop)
Manuf: Corian
Color: Clam Shell
Size: 1/2" Thick

WALL PROTECTION

WP1 Sheet
Manuf: Acrovyn
Style: Rigid Sheet
Size: 4' x 10' x 0.060" Thick
Color: Slate 209
*Include manuf trim pieces as required.

WP2 Single Corner Guard
Manuf: Acrovyn
Style: SM-20N
Size: (1) 2 x 2 x refer to detail height
Color: Slate 209

WP3 (doors add alternate no. 2)
Manuf: Acrovyn
Style: Door Cladding
Color: Shaker Cherry 380

MISC

(ME) Match Existing

(E) Existing to Remain

FLOORING
SV1
Manuf: Mannington
Style: Entwined Lino
Color: Hull ETW102

MATERIAL TRANSITIONS

TOP OF INTEGRAL BASE SV1
Manuf: Schluter
Style: Jolly
Color: Anodized Aluminum
Contact: Ryan Dode @ 405-657-0833

BASE
INT
6" H Integral Base

RB1 (only install at locations where WP1 is indicated)
Manuf: Mannington
Style: Optimum Edge
Color: Taupestone 909
NOTE: Miter inside corners. Do not use premolded outside corners.

WALLS

P1 (hall only where indicated)
Manuf: Sherwin Williams
Color: Kilim Beige SW6106
Finish: Semi-Gloss

P2 (room field)
Manuf: Sherwin Williams
Color: Amazing Gray SW7044
Finish: Semi-Gloss

P3 (accent)
Manuf: Sherwin Williams
Color: Green Earth
Finish: Semi-Gloss

P4 (door + window frames)
Manuf: Sherwin Williams
Color: Tony Taupe SW7038
Finish: Semi-Gloss

P5 (ceilings)
Manuf: Sherwin Williams
Color: Dover White SW6385
Finish: Semi-Gloss

FINISH LEGEND NOTES

WALL FINISH:
1. WALL TEXTURE SHALL MATCH FACILITY STANDARD, UNLESS NOTED OTHERWISE.
2. PAINT ALL WALLS LATEX EGGSHELL, UNLESS NOTED OTHERWISE. SEE FINISH LEGEND FOR DEFINITION.
3. PAINT ALL ELECTRICAL AND ACCESS WALL PANELS TO MATCH ADJACENT WALL FINISH.
4. ALL WET TILE WALLS (BATH AND SHOWER ENCLOSURES) SHALL BE COMPLETELY WRAPPED IN KERDI BY SCHLUTER.

WALL BASE:
1. ALL RUBBER BASE SHALL BE SEALED TIGHT TO FINISHED FLOOR.

FLOOR FINISH:
1. ALL FLOOR TRANSITIONS ARE TO OCCUR AT THE CENTERLINE OF DOOR WHEN DOOR IS IN CLOSED POSITION.
2. REFER TO I.101 SERIES FOR TRANSITION AND THRESHOLD DETAILS.
3. REFER TO INTERIOR FLOOR FINISH PLANS FOR ALL FLOOR PATTERNS.
4. INSTALL ALL LUXURY VINYL TILE IN ONE DIRECTION ONLY, TO MATCH THROUGHOUT, UNLESS NOTED OTHERWISE.

DOORS/WINDOWS:
1. INTERIOR HOLLOW METAL DOOR & FRAME, AND INTERIOR SURFACE OF EXTERIOR HOLLOW METAL DOOR & FRAME TO BE PAINTED TO MATCH FACILITY STANDARD, UNLESS NOTED OTHERWISE.

CEILING FINISH:
1. FURR-DOWN FINISH: VERTICAL AND HORIZONTAL SURFACES OF FURR-DOWN TO MATCH ADJACENT WALLS, UNLESS NOTED OTHERWISE.
2. REFER TO REFLECTED CEILING PLAN FOR ALL CEILING HEIGHTS.
3. PAINT ALL GYP. BD. CEILINGS LATEX EGGSHELL, UNLESS NOTED OTHERWISE. SEE FINISH LEGEND FOR DEFINITION.
4. PAINT ALL ACCESS PANELS IN CEILING TO MATCH ADJACENT CEILING FINISH.
5. PAINT ALL SIDES OF SOFFIT FOR GYP. CEILING ABOVE COLOR LISTED ON REFLECTED CEILING PLAN.
6. ALL CEILING GRID WALL ANGLES TO BE SEALED AT WALL WHERE PAINT OCCURS.

ACCESSORIES:
1. REFER TO EQUIPMENT PLAN AND DETAILS FOR WALL PROTECTION (WP) LOCATIONS. REFER TO INTERIOR FINISH LEGEND FOR SPECIFIC PROFILES AND COLORS.
2. PROVIDE CLEAR SILICONE JOINT SEALANT BETWEEN SHEET WALL PROTECTION TRIM AND FINISHED GYPSUM BOARD AS WELL AS SHEET WALL PROTECTION AND FLOORING BASE UNLESS NOTED OTHERWISE.
3. INSTALL ADA COMPLIANT SIGNAGE PROVIDED BY FACILITY AT ALL ROOMS WITHIN SCOPE UNLESS OTHERWISE INDICATED BY FACILITY.

FINISH PLAN GENERAL NOTES

1. REFER TO INTERIOR FINISH LEGEND THIS PAGE FOR FINISH MANUFACTURER AND COLOR INFORMATION.

2. REFER TO THIS PAGE FOR FLOOR TRANSITION DETAILS.

3. REFER TO A.22x SERIES REFLECTED CEILING PLANS FOR LOCATION OF CEILING FINISHES AND CEILING HEIGHTS.

FINISH PLAN LEGEND

ROOM FINISH TAG (REFERENCE I.101 SHEET)

ACT	CEILING FINISH
P	WALL FINISH
RB	WALL BASE FINISH
SV	FLOOR FINISH

* DENOTES MULTIPLE FINISHES. PLEASE REFER TO ENLARGED PLANS, DETAILS AND/OR ELEVATIONS FOR MORE INFORMATION.

OUT OF SCOPE

P4 PAINT ACCENT

CPT FINISH TAG

FINISH PATTERN LEGEND

FLOOR FINISH

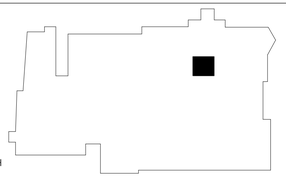
SV1

FINISH PATTERN LEGEND

1 PAINT EXISTING DOOR FRAME TO STOP ON RABBETED FRAME. IN ROOM 1E-5205A, IF ALTERNATE IS ACCEPTED, PAINT FRAME IN ENTIRETY

2 CARRY SHEET VINYL TO CORRIDOR EDGE OF DOOR FRAME

KEY PLAN



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No.	Description	Date

STATE OF COLORADO
JOHN MENNO NAAS
401729
LICENSED ARCHITECT
10/09/2020

19-009D TMCA MEDICAL DECISION UNIT

1501 S POTOMAC ST
AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	09 OCTOBER 2020
Project Number	19-009D
Drawn by	SL
Checked by	JMN

Sheet Title

FINISH LEGEND, PLAN + DETAILS

Sheet Number

I.201

MECHANICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

1. WORK UNDER THIS SECTION IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING THE DRAWINGS, GENERAL AND SUPPLEMENTARY CONDITIONS OF THE ARCHITECTURAL SPECIFICATIONS.
2. THE DRAWINGS AND SPECIFICATIONS SHALL BE UNDERSTOOD TO COVER SYSTEMS OF HEATING, VENTILATION AND AIR CONDITIONING, INSULATION, BUILDING AUTOMATION SYSTEMS AND TEMPERATURE CONTROL, AND TESTING AND BALANCING. THE DRAWINGS AND SPECIFICATIONS ARE TO BE TAKEN TOGETHER. WORK SPECIFIED AND NOT SHOWN, OR WORK SHOWN AND NOT SPECIFIED, SHALL BE AS BINDING AS THOUGH REQUIRED BY BOTH, THE DRAWINGS AND SPECIFICATIONS.
3. MINOR ITEMS AND ACCESSORIES OR DEVICES REASONABLY INFERABLE AS NECESSARYTO THE COMPLETE AND PROPER OPERATION OF ANY SYSTEM SHALL BE PROVIDED FOR SUCH SYSTEMS, WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR BY THE SPECIFICATIONS OR THE DRAWINGS. THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSE FEES, MAKE ARRANGEMENTS FOR INSPECTIONS, PAY ALL FEES IN CONNECTION THEREWITH, EXCEPT BUILDING PERMIT, AND PAY ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES.
4. THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSE FEES, MAKE ARRANGEMENTS FOR INSPECTIONS, PAY ALL FEES IN CONNECTION THEREWITH, EXCEPT BUILDING PERMIT, AND PAY ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES.
5. THE CONTRACTOR SHALL GUARANTEE ALL WORK TO BE FREE FROM DEFECTS INMATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR IN ACCORDANCE WITH THE GENERAL CONDITIONS, UNLESS A LONGER PERIOD IS STIPULATED UNDER SPECIFIED HEADINGS. HE SHALL REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ANY MATERIAL OR EQUIPMENT DEVELOPING DEFECTS. REPAIRS OR REPLACEMENTS SHALL BEAR AN ADDITIONAL TWELVE (12) MONTHS GUARANTEE FROM TIME REPAIR OR REPLACEMENT IS COMPLETE. THIS REQUIREMENT SHALL BE BINDING, EVEN THOUGH IT WILL EXCEED PRODUCT GUARANTEES NORMALLY FURNISHED BY SOME MANUFACTURERS.
6. THE CONTRACTOR SHALL SUBMIT HIS OWN AND EACH MANUFACTURERS' WRITTEN CERTIFICATES AND WARRANTIES WHICH INDICATE THAT EACH ITEM OF EQUIPMENT FURNISHED, COMPLIES WITH ALL REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. GUARANTEES AND WARRANTIES SHALL COMMENCE FROM THE DATE OF THE SIGNED ACCEPTANCE BY THE OWNER OF A PARTICULAR ITEM OF EQUIPMENT OR A PARTICULAR DEFINED PORTION OF THE WORK.
7. ALL WORK SHALL BE INSTALLED IN CONFORMITY WITH ALL GOVERNMENTAL JURISDICTIONAL AUTHORITIES REGULATIONS, LAWS, RULES, OR ORDINANCES IN EFFECT AND GOVERNING SAME; SUCH RULES AND REGULATIONS AND LOCAL ORDINANCES TO BE CONSIDERED PART OF SPECIFICATIONS. MECHANICAL CONTRACTOR SHALL BE HELD STRICTLY RESPONSIBLE FOR ANY VIOLATION OF SAME AND SHALL CHANGE HIS WORK TO CONFORM WITHOUT ADDITIONAL COST TO OWNER.
8. ALL WORK SHALL ALSO CONFORM TO THE PUBLISHED STANDARDS OF THE NATIONAL FIREPROTECTION ASSOCIATION, AND ELECTRICAL WORK AND EQUIPMENT SHALL CONFORM TO REQUIREMENTS OF THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE. ALL MATERIALS, IN GENERAL, SHALL BE UNDERWRITERS' LABORATORIES LISTED AND SHALL BEAR UL LABEL WHERE LABELING SERVICE IS AVAILABLE.
9. WHERE JURISDICTIONAL RULES REQUIRE ASSISTANCE OF MECHANICS OF TRADES OTHERTHAN THOSE ORDINARILY EMPLOYED BY A PARTICULAR MECHANICAL CONTRACTOR INTHE HANDLING, STORAGE OR SETTING OF SPECIAL EQUIPMENT, THE MECHANICALCONTRACTOR SHALL EMPLOY SUCH TRADESMEN SO AS TO BE IN CONFORMANCE WITHLOCAL JURISDICTIONAL AGREEMENTS.
10. IT IS CONTEMPLATED THAT WORK INCLUDED BE DONE DURING REGULAR WORKINGHOURS ON A "STRAIGHT TIME" BASIS. ANY WORK REQUIRING OVERTIME SHALL INCLUDETHE COST FOR SUCH OVERTIME WORK AS A PART OF THE BASE BID PROPOSAL.
11. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY INTERFERENCE WITHOR DAMAGE TO ANY EXISTING UTILITIES AND SHALL REPAIR OR REPLACE ANY DAMAGEDUTILITIES WITH THE LEAST POSSIBLE DELAY AND HOLD THE OWNER HARMLESS IN THEEVENT THAT THERE IS ANY DAMAGE.
12. CERTAIN ITEMS OF EQUIPMENT ARE SPECIFIED ON THE DRAWING EQUIPMENTSCHEDULES OR IN NOTES AS THE PRODUCT OF A SPECIFIC MANUFACTURER INCLUDING THE TRADE NAME, SIZE AND MODEL NUMBER. THIS IS TO ESTABLISH A STANDARD OFQUALITY AND TO MAKE PROVISIONS FOR POWER, SPACE ALLOWANCE, AND CONNECTIONS BY OTHER TRADES.
13. IF ALTERNATE MANUFACTURERS OTHER THAN THOSE NAMED IN THE DOCUMENTS AREPROPOSED TO BE USED, THE BIDDER SHALL LIST SUCH OTHER ALTERNATEMANUFACTURERS ALONG WITH ANY COST ADDITIONS OR DEDUCTIONS FROM THE BASEBID PROPOSAL. IF THE OWNER ACCEPTS THE ALTERNATE MANUFACTURER THECONTRACT WILL SO STATE. IF THE CONTRACT DOES NOT CONTAIN THE NAMES OFALTERNATE MANUFACTURERS THE CONTRACTOR SHALL SUBMIT ONLY MANUFACTURERSNAMED IN THE DOCUMENTS.
14. IF THE MECHANICAL CONTRACTOR PROPOSES TO USE THE PRODUCT OF A MANUFACTURER OTHER THAN THE ONE NAMED IN THE DOCUMENTS HE SHALL BERESPONSIBLE FOR THAT ITEM OF EQUIPMENT FITTING IN PLACE WITH ADEQUATECLEARANCES. FURTHER, IF DIFFERENT CONNECTIONS OR PROVISIONS ARE REQUIRED TOBE FURNISHED BY OTHER TRADES FROM THE PRODUCT NAMED IN THE DOCUMENTS, THEMECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OTHER TRADESOF ANY CHANGES AND IF ADDITIONAL COSTS ARE REQUIRED BY THE OTHER TRADES HESHALL PAY SUCH COSTS.
15. THE ENGINEER HAS NO CONTRACTUAL RESPONSIBILITY IN CONNECTION WITH JOB SITESAFETY MEASURES OR PRECAUTIONS AS RELATED TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES IN THAT REGARD. THE MECHANICAL CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THEWORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMALWORKING HOURS. THE ARCHITECT/ENGINEER'S OBSERVATIONS OF THE MECHANICALCONTRACTOR'S PERFORMANCE ARE NOT INTENDED TO INCLUDE REVIEW OF THEADEQUACY OF THE MECHANICAL CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THECONSTRUCTION SITE. IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TOCOMPLY WITH "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION", VOLUME 36, NO.75, PART II OF THE FEDERAL REGISTER BY THE U.S. DEPARTMENT OF LABOR. THEMECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SUCH SAFETYMEASURES AND SHALL CONSULT WITH THE STATE OR FEDERAL SAFETY INSPECTOR FOR INTERPRETATION WHENEVER IN DOUBT AS TO WHETHER SAFE CONDITIONS DO OR DONOT EXIST; OR WHETHER HE IS OR IS NOT IN COMPLIANCE WITH STATE OR FEDERALREGULATIONS.
16. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC IN NATURE AND SHOW GENERALARRANGEMENT OF ALL EQUIPMENT, PIPING, DUCTWORK, SERVICES, ETC. BECAUSE OFTHE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO SHOW ALL OFFSETS,FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. FURNISH ALL FITTINGS, ANDACCESSORIES THAT MAY BE REQUIRED TO MEET SUCH CONDITIONS AND TO FIT WORKOF OTHER TRADES.
17. FURNISH THREE (3) SETS OF CUTS OR BROCHURES, OR ONE SEPIA REPRODUCIBLE SHOPDRAWING AND TWO PRINTS SHOWING ALL DETAILS OF CONSTRUCTION FOR DUCTLAYOUTS AND EQUIPMENT AND ASSOCIATED WIRING DIAGRAMS TO BE FURNISHED.
18. REVIEW OF THE SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BECONSIDERED AS A GUARANTEE OF MEASUREMENTS OR OF BUILDING CONDITIONS; NORSHALL IT BE CONSTRUED AS RELIEVING THE MECHANICAL CONTRACTORS OF BASICRESPONSIBILITIES UNDER HIS CONTRACT.
19. ALL EQUIPMENT SUBMITTED AS SHOP DRAWINGS SHALL BE APPROVED BY THEGOVERNING JURISDICTIONAL AUTHORITIES PREVIOUS TO SUBMITTAL. SUBMISSION OFA SHOP DRAWING SHALL MEAN THAT APPROVAL HAS BEEN OBTAINED FOR INSTALLATIONOF THE EQUIPMENT SUBMITTED FOR REVIEW.
20. AT COMPLETION OF THE PROJECT, ALL CHANGES AND DEVIATIONS FROM THE CONTRACTDOCUMENTS SHALL BE RECORDED BY THE MECHANICAL CONTRACTOR ON AS-BUILTDRAWINGS. SUPPLY TO THE ARCHITECT/ENGINEER FOUR PAPER BLUE LINE SETS AND
21. THE OWNER, ARCHITECT, ENGINEER OR OTHERS WHO THEY MAY DESIGNATE SHALL BEPRIVILEGED TO ENTER AND OCCUPY THE BUILDING OR PORTIONS THEREOF, AT ANY TIMEPRIOR TO COMPLETION OF THE MECHANICAL WORK WITHOUT PREJUDICE.
22. BEFORE MAKING ANY INSTALLATION, THE MECHANICAL CONTRACTOR SHALL CONFERWITH ALL OTHER CONTRACTORS WHOSE WORK MAY AFFECT THE WORK UNDER THEIRSECTIONS AND MAKE THE NECESSARY CHANGES TO AVOID INTERFERENCES ORIMPROPER EFFECT ON WORK TO BE PERFORMED BY ALL OTHER TRADES. IN THE EVENTTHAT INTERFERENCES DEVELOP, THE ARCHITECT'S DECISION WILL BE FINAL AND NOADDITIONAL COMPENSATION WILL BE ALLOWED FOR MOVING OF MISPLACED PIPING, DUCTS, CONDUIT AND/OR EQUIPMENT.
23. ALL MATERIALS AND/OR EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
24. EACH MAJOR COMPONENT OF THE EQUIPMENT SHALL HAVE THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER AND RATING ON A PLATE SECURELY AFFIXED IN A CONSPICUOUS PLACE. THE NAMEPLATE OF A DISTRIBUTING AGENT IS NOT ACCEPTABLE. ASME CODE RATINGS, OR OTHER DATA WHICH IS DIE-STAMPED INTO THE SURFACE OF THE EQUIPMENT SHALL BE IN A VISIBLE LOCATION.
25. USE ONLY NEW MATERIALS OF THE BEST QUALITY OF THEIR RESPECTIVE KINDS; LABOR SHALL BE DONE IN A THOROUGH WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
26. MATERIALS SHALL BE MANUFACTURED BY REPUTABLE MANUFACTURERS WHO HAVE BEEN PRODUCING THIS TYPE OF MATERIAL TO BE SOLD IN MAJOR CITIES IN THE UNITED STATES FOR A PERIOD OF AT LEAST FIVE (5) YEARS, UNLESS OTHERWISE NOTED HEREIN.
27. THE INSTALLATION OF ANY ACCESS PANEL IS STRICTLY LIMITED TO LOCATIONS AS INDICATED ON THE ARCHITECTURAL DRAWINGS OR APPROVED BY ARCHITECT.
28. FIRE STOPPING SHALL BE REQUIRED AT ALL FLOOR AND FIRE RATED WALL/PARTITION PENETRATIONS. FIRE STOPPING SYSTEMS SHALL BE AS DETAILED ON ARCHITECTURAL DRAWINGS.
29. ALL SHOP FABRICATED AND FACTORY BUILT EQUIPMENT NOT GALVANIZED OR PROTECTED BY PLATING SHALL BE CLEANSED AND GIVEN ONE (1) SHOP COAT OF ZINC-CHROMATE PRIMER BEFORE DELIVERY OR DURING CONSTRUCTION. ALL FINISH PAINTING SHALL BE DONE BY THE GENERAL CONTRACTOR.
30. DUCTWORK BEHIND THE GRILLES, REGISTERS, DIFFUSERS, ETC. WHICH IS EXPOSED TO VIEW THROUGH THE UNITS, SHALL BE GIVEN ONE (1) COAT OF PRIMER AND A FINISH COAT OF FLAT BLACK PAINT.
31. ALL WORKMANSHIP SHALL BE FIRST CLASS IN EVERY RESPECT AND SHALL BE PERFORMED ONLY BY SKILLED MECHANICS, RECOGNIZED AS SUCH IN THEIR RESPECTIVE TRADES.
32. FURNISH NECESSARY SCAFFOLDING, STAGING OR CRIBBING REQUIRED FOR THE COMPLETION OF THE WORK. SUCH SCAFFOLDING, ETC., SHALL BE REMOVED FROM THE PREMISES WHEN ITS USE IS NO LONGER REQUIRED ON THE JOB.
33. SHOULD DAMAGE TO ANY MECHANICAL, ELECTRICAL OR ARCHITECTURAL PART OF THE BUILDING OCCUR, PAY ALL COSTS TO THE RESPECTIVE SUBCONTRACTORS AFFECTED ON THE JOB TO MAKE REPAIRS AND/OR TEMPORARY CONNECTIONS REQUIRED.
34. OPENINGS MADE IN FIRE RATED WALL, CEILING OR FLOOR SHALL BE EFFECTIVELY CLOSED AND REPAIRED SO THE FIRE RATING IS NOT REDUCED BELOW ORIGINAL FIRE RATING REQUIREMENTS.
35. FURNISH 8 COMPLETE PORTFOLIOS TO THE OWNER'S REPRESENTATIVE, CONTAINING AS- BUILT SHOP DRAWINGS, TEST AND BALANCE REPORTS, OPERATING INSTRUCTIONS, WARRANTIES, PARTS LISTS, WIRING DIAGRAMS, ETC., ON ALL EQUIPMENT FURNISHED UNDER THIS CONTRACTOR.
36. THE CONTRACTOR SHALL FURNISH A COMPETENT INSTRUCTOR TO ADVISE THE OWNER'S OPERATING PERSONNEL AS TO THE PROPER OPERATION, SERVICING, ETC., OF ALL EQUIPMENT AND SYSTEMS INSTALLED.
37. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL CLEAN ALL OF HIS WORK, EQUIPMENT, ETC., FREE FROM DUST, ETC., AND LEAVE THE WORK IN GOOD HOUSEKEEPING FASHION IN A MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. PROVIDE NECESSARY FITTINGS, LAMPS, VALVES, ETC., AND LEAVE THE WORK CLEAN AND IN PERFECT OPERATING CONDITION.
38. WHEN DIRECTED, DURING CONSTRUCTION PERIOD, OPERATE SYSTEM WITH ALL FILTERS IN PLACE AND ALL CAULKING COMPLETE. DO NOT OPERATE OR PERMIT SUPPLY SYSTEM TO BE OPERATED WITHOUT FILTERS.
39. UNDER NO CIRCUMSTANCES SHALL ANY ITEMS OF NEW AIR HANDLING EQUIPMENT BE OPERATED FOR TEMPORARY HEAT OR VENTILATION WITHOUT FILTERS IN PLACE. IF THE UNIT IS USED BEFORE CONSTRUCTION IS COMPLETED, THE FILTERS SHALL BE REPLACED, THE UNIT AND COILS SHALL BE CLEANED AND THIS SET OF FILTERS SHALL NOT BE CONSIDERED AS THE SPARE SET OF FILTERS HEREINAFTER SPECIFIED.
40. THE CONTRACTORS SHALL EXPEDITE THE INSTALLATION OF THEIR RESPECTIVE SYSTEMS AS THAT HEATING SYSTEMS CAN BE USED FOR TEMPORARY HEAT AS SOON AS THE SPACE IS ENCLOSED, THEY SHALL COOPERATE WITH THE GENERAL CONTRACTOR IN PROVIDING TEMPORARY HEAT AS REQUIRED.
41. ALL TENDERS SUBMITTED ON THESE DRAWINGS AND SPECIFICATIONS SHALL BE BASED ON NEW MATERIALS AND APPARATUS OF MAKE AND QUALITY AS SPECIFIED. IF THE CONTRACTOR DESIRES, HE MAY ALSO TENDER ON MATERIALS AND APPARATUS WHICH SHALL BE OF SAME QUALITY AND OF SIMILAR SPECIFICATIONS TO THOSE AS HEREIN SPECIFIED, IN WHICH CASE HE SHALL STATE IN HIS TENDER ALL ADDITIONS OR DEDUCTIONS INVOLVED IN THE ALTERNATE MATERIALS AND APPARATUS, AND SHALL SPECIFY THE NAME OR MAKE ON WHICH HIS ALTERNATE IS BASED. WHEN NO ALTERNATES ARE GIVEN OR ACCEPTED PRIOR TO CONTRACT AWARD, THE MAKE SPECIFIED SHALL BE INSTALLED.

HVAC SYSTEM

1. THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS ARE TO COVER THE FURNISHINGS OF ALL LABOR, MATERIALS, EQUIPMENT, APPARATUS, SERVICE PERMANENT AND TEMPORARY FACILITIES AS NECESSARY TO THE HEATING AND AIR CONDITIONING WORK INVOLVED IN THE FURNISHING, INSTALLING, TESTING, ADJUSTING, RETESTING, READJUSTMENT AS REQUIRED AND DIRECTED, AND PLACING INTO APPROVED SATISFACTORY OPERATION THE COMPLETE RESPECTIVE SYSTEMS AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY THE JOB CONDITIONS.
2. BEFORE BEGINNING WORK, THE CONTRACTOR SHALL REVIEW THE IMAGING VENDOR FINAL SHOP DRAWINGS FOR COORDINATION AND IMAGING VENDOR EXPECTATIONS.
3. FURNISH AND INSTALL A COMPLETE AND OPERABLE SYSTEM FOR VENTILATING, HEATING AND AIR CONDITIONING CONSISTING OF, BUT NOT LIMITED TO:
   A. SUPPLY AND EXHAUST/RETURN DUCT SYSTEM
   B. GRILLES, DIFFUSERS, REGISTERS AND MANUAL VOLUME DAMPERS
   C. TESTING AND BALANCING
4. FURNISH ACCESS DOORS TO CEILING CONTRACTOR FOR ACCESS TO VALVES AND DAMPERS. ALL CONTROL DEVICES AND DAMPERS ABOVE INACCESSIBLE CEILINGS. LAY IN CEILINGS SHALL BE CONSIDERED ACCESSIBLE. PROVIDE 12"X12" (MIN.) ACCESS DOORS IN DUCTS FOR ACCESS TO FIRE DAMPERS, DUCT MOUNTED APPARATUSES, AND WHERE INDICATED FOR MAINTENANCE.
5. FURNISH AND INSTALL ALL INSULATION AS HEREINAFTER SPECIFIED.
6. FURNISH CUTTING AND CORING FOR INSTALLATION OF DUCTS AND EQUIPMENT. APPLICABLE STANDARDS AND CODES OF THE FOLLOWING:

   THE WORK UNDER THIS SECTION SHALL COMPLY WITH THE LATEST EDITION OF:
   A. IMC - INTERNATIONAL MECHANICAL CODE
   B. ASME -AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
   C. ASHRAE
   D. ARI -AIR CONDITIONING AND REFRIGERATION INSTITUTE
   E. ASTM -AMERICAN SOCIETY FOR TESTING MATERIALS
   F. AABC -ASSOCIATED AIR BALANCE COUNCIL NFPA -NATIONAL FIRE PROTECTION ASSOCIATION
   G. SMACNA - SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
7. EXERCISE CARE IN TRANSPORTING AND HANDLING TO AVOID DAMAGE TO FIXTURES, EQUIPMENT AND MATERIALS.
8. STORE MATERIALS ON THE SITE SO AS TO PREVENT DAMAGE.
9. KEEP EQUIPMENT AND MATERIALS CLEAN, DRY AND FREE FROM DELETERIOUS CONDITIONS.
10. ALL DUCTWORK SHALL BE FABRICATED FROM G90 PRIME GALVANIZED SHEET STEEL WITH PAINT GRIP FINISH, UNLESS OTHERWISE SPECIFIED. THE DUCTS SHALL BE AIRTIGHT AND SHALL BE ANCHORED, BRACED AND REINFORCED TO PREVENT VIBRATION, LEAKAGE AND OIL CANNING. THE SPACING OF STIFFENERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA.
11. THE DUCTWORK SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE WITH 1 INCH X 1/8 INCH SOLID GALVANIZED STRAP HANGERS (BOTH SIDES OF DUCT AT POINT OF SUPPORT) WITH GAGES AND SPACING AS SPECIFIED IN SMACNA.
12. UNLESS OTHERWISE NOTED, ALL ROUND ELBOWS SHALL HAVE CENTER LINED RADIUS EQUAL TO 1-1/2 TIMES THE WIDTH OF THE DUCT. IF SPACE DOES NOT PERMIT, THEN PROVIDE 6" THROAT WITH SPLITTER VANES. SEE DUCT CONSTRUCTION DETAILS.
13. ALL DUCTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. LOW PRESSURE SUPPLY AND EXHAUST TO HAVE A POSITIVE OR NEGATIVE RATING OF 2" W.G., VELOCITIES BELOW 2500 FPM, SEAL CLASS B.
14. ALL DUCTWORK SHALL BE 26 GAUGE GALVANIZED MINIMUM.
15. ROUND DUCTS AND FITTINGS SHALL BE FACTORY FABRICATED SPIRAL LOCK SEAM DUCT WITH MACHINE FORMED FITTINGS AS MANUFACTURED BY UNITED SHEET METAL. ALL FITTINGS SHALL BE SEALED WITH FIRE RETARDANT DUCT SEALER.
16. FLEXIBLE DUCTS SHALL BE FLEX MASTER OR APPROVED EQUAL. INSULATED FLEXIBLE DUCTS, SECURED WITH WORM DRIVE STAINLESS STEEL CLAMPS. DUCTS SHALL BE U.L. LISTED AND HAVE 2" W.G. GAUGE WORKING PRESSURE. 4'-0" MAXIMUM LENGTH.
17. FOR ALL OPERABLE DEVICES IN WALLS OR ABOVE INACCESSIBLE SUSPENDED CEILINGS, PROVIDE MILCOR ACCESS DOORS WITH SAME KEYED LOCKS AND CONCEALED HINGES. LAY IN CEILINGS ARE CONSIDERED ACCESSIBLE. SIZE AS REQUIRED FOR ACCESS.
    A. STYLE DW IN DRYWALL NO. 16 GA. FRAME NO. 14 GA. PANEL
    B. STYLE AP IN PLASTER NO. 16 GA. FRAME NO. 14 GA. PANEL
    C. STYLE M IN MASONRY NO. 16 GA. FRAME NO. 14 GA. PANEL
18. PROVIDE AN ADJUSTABLE BUTTERFLY OR OPPOSED MULTI BLADE VOLUME DAMPERS IN DUCTWORK AT EVERY DUCT JUNCTION ON ALL SUPPLY, RETURN AND EXHAUST AIR DUCTWORK. DAMPERS SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL 2 GAGES HEAVIER THAN DUCT IN WHICH THE DAMPER IS INSTALLED. EACH DAMPER SHALL BE PROVIDED WITH DAMPER ROD HELD IN PLACE WITH A CLAMPING DEVICE. VISIBLE END OF THE DAMPER RODS SHALL BE FILE MARKED WITH MARKS PARALLEL TO THE BLADES.
19. FIRE DAMPERS SHALL BE COMPLETE WITH WALL FRAME, SLEEVES, ANGLE IRON STOPS, LATCHES, SPRINGS AND FUSIBLE LINK, ETC., AND SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS AND ELSEWHERE AS REQUIRED IN ACCORDANCE WITH NATIONAL BUREAU OF FIRE UNDERWRITER REGULATION BULLETIN 90-A. AND THE CITY OF CHICAGO FIRE PREVENTION BUREAU. THE FIRE DAMPERS SHALL BEAR UL LABEL. FIRE DAMPER SHALL BE 98% FREE AREA, AND BE OF THE LOW RESISTANCE TYPE WITH 1-1/2 HOUR OR 3 HOUR FIRE RATING AS MANUFACTURED BY PHILLIPS-AIRE AMERICAN WARNING AND VENTILATING, INC., AIR BALANCE, INC., OR RUSKIN MANUFACTURING.
20. ALL SUPPLY AND RETURN AIR OUTLETS SHALL BE MOUNTED TIGHTLY WITH RUBBER GASKETS TO PREVENT AIR LEAKAGE.
21. OUTLETS SHALL BE SELECTED AND GUARANTEED BY THE MANUFACTURER TO HANDLE THE AIR QUANTITIES AS SHOWN ON THE DRAWINGS WITH MAXIMUM PRESSURE DROP THROUGH THE OUTLET NOT EXCEEDING 0.10 IN OF WATER.
22. UNLESS OTHERWISE NOTED, DIFFUSERS, REGISTERS OR GRILLES SHALL BE FABRICATED FROM PRIME STEEL AND SHALL BE PROVIDED WITH A FINISH COAT OF WHITE BAKED ENAMEL PAINT, UNLESS NOTED OTHERWISE. DIFFUSERS, REGISTERS AND GRILLES SHALL BE AS MANUFACTURED BY TITUS, OR APPROVED EQUAL.
23. DRILLED-IN THREADED INSERTS: PHILLIPS "REDHEAD" DRILLED-IN THREADED INSERTS SHALL BE PROVIDED. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
24. PROVIDE ANCHOR BOLTS, NUTS SLEEVES FOR ANCHORING FANS, MOTORS AND ANY OTHER POWER-OPERATED EQUIPMENT.
25. ALL CONDITIONED SUPPLY AIR DUCTS SHALL BE INSULATED WITH 1 1/2" THICK FIBERGLASS INSULATION. MAKE-UP AIR DUCTS DO NOT NEED TO BE INSULATED.

TESTING AND BALANCING OF AIR SYSTEMS:

1. PROVIDE PRE-BALANCE OF EXISTING GRDs TO BE REPLACED.
2. TESTING AND BALANCING OF AIR SYSTEMS SHALL BE PERFORMED BY AN INDEPENDENT SUB-CONTRACTOR SPECIALIZING IN SUCH WORK AND IS A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL. TEST AND BALANCE CONTRACTOR SHALL CONTRACTED DIRECTLY BY OWNER.
3. BALANCE AND TESTING SHALL NOT BEGIN UNTIL EACH SYSTEM HAS BEEN COMPLETED AND IS IN FULL WORKING ORDER. CONTRACTORS SHALL PUT ALL THEIR EQUIPMENT INTO FULL OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING.
4. TESTING AND BALANCING SHALL BE PERFORMED IN COMPLETE ACCORDANCE WITH THE SMACNA MANUAL OR THE AABC NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION AND THE LEGACY SPECIFICATIONS, SECTION.
5. UPON COMPLETION OF THE WORK, THE BALANCE CONTRACTOR SHALL COMPILE ALL TEST DATA AND SUBMIT 8 TYPEWRITTEN COPIES OF THE COMPLETE TEST DATA TO THE ARCHITECT FOR EVALUATION AND APPROVAL. ALL REPORTS SHALL BE MADE ON FORMS AS RECOMMENDED BY EITHER AGENCY.
6. THE BALANCE CONTRACTOR SHALL PERFORM THE FOLLOWING TESTS, AND BALANCE EACH SYSTEM IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
   A. ADJUST ALL SUPPLY, RETURN AND EXHAUST AIR DUCTS TO PROPER DESIGN AIR FLOWS.
   B. ADJUST AND RECORD ALL ZONES TO PROPER DESIGN AIR FLOWS, BY MEANS OF DUCT TRAVERSE METHOD.
   C. TEST AND ADJUST EACH DIFFUSER, GRILLE AND REGISTER TO WITHIN PLUS OR MINUS 10% OF DESIGN REQUIREMENTS. EACH GRILLE, DIFFUSER AND REGISTER SHALL BE IDENTIFIED AS TO LOCATION, SIZE, TYPE, MANUFACTURER OF AND ALL TESTED EQUIPMENT SHALL BE IDENTIFIED AND LISTED. MANUFACTURER'S RATINGS ON ALL EQUIPMENT SHALL BE USED TO MAKE REQUIRED CALCULATIONS AND FINAL DATE BALANCED.
   D. READINGS AND TEST OF DIFFUSERS, GRILLES AND REGISTERS SHALL INCLUDE REQUIRED FPM VELOCITY, TEST RESULTANT VELOCITY, REQUIRED CFM, TEST RESULTANT CFM AFTER ADJUSTMENTS AND FINAL DATE BALANCED.
   E. IN COOPERATION WITH THE EQUIPMENT OR CONTROL MANUFACTURER'S REPRESENTATIVE, ADJUST AUTOMATICALLY OPERATED DAMPERS TO OPERATE AS SPECIFIED, INDICATED AND/OR NOTED.
   F. ADJUST ALL DIFFUSERS, GRILLES AND REGISTERS TO PROVIDED PROPER AIR DISTRIBUTION AND TO MINIMIZE DRAFTS IN ALL AREAS.
   G. ADJUSTMENT OF ALL DAMPERS, FANS OR BLOWER SPEED, BELT TENSION, ETC., SHALL BE BY THIS CONTRACTOR. PROVIDE NEW SHEAVES OR BELTS IF REQUIRED FOR BALANCING.
7. AFTER THE AIR BALANCING WORK HAS BEEN COMPLETED, IT MAY BE NECESSARY TO PROVIDE COMFORT REBALANCE. THIS CONTRACTOR SHALL PROVIDE ALL BALANCE WORK FOR READJUSTMENTS.

PLUMBING NOTES

PART 1 - BASIC REQUIREMENT

1.01 RELATED REQUIREMENTS

A. THIS SPECIFICATION SHALL CONTROL ALL LABOR, SERVICES, MATERIALS AND EQUIPMENT AND PERFORMANCE OF ALL WORK REQUIRED FOR THE INSTALLATION OF ALL PLUMBING AND MEDICAL GAS WORK AS SPECIFIED IN THE FOLLOWING.

B. DEFINITIONS:
   1. "PIPING" INCLUDES, IN ADDITION TO PIPE, ALL FITTINGS, VALVES, PIPE COVERING, HANGERS, AND OTHER SUPPORTS AND ACCESSORIES RELATED TO SUCH PIPING.
   2. CONCEALED MEANS HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION, IN CRAWL SPACES OR BURIED.
   3. "EXPOSED" MEANS NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
   4. "PROVIDE" MEANS TO FURNISH AND INSTALL COMPLETE.

1.02 GENERAL REQUIREMENTS

A. MEDICAL GAS WORK TO COMPLY WITH 2012 EDITION OF NFPA #99 STANDARDS.

B. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO VERIFY SCOPE OF WORK.

C. PRODUCTS AND EXECUTION SHALL BE PROVIDED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM THROUGHOUT THE EXTENT OF THE PROJECT.

D. ALL PRODUCTS AND EQUIPMENT SHALL BE UL LISTED AND APPROVED BY THE FACILITY.

E. ALL NEW DEVICES AND TRIM SHALL COMPLY WITH RECOGNIZED NFPA STANDARDS.

F. EACH MAJOR COMPONENT OR PIECE OF EQUIPMENT TO HAVE THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER AND RATING ON A PLATE SECURELY AFFIXED IN A CONSPICUOUS PLACE.

G. CODE RATINGS, LABELS OR OTHER DATA WHICH ARE DIE-STAMPED OR OTHERWISE AFFIXED TO THE SURFACE OF THE EQUIPMENT SHALL BE IN VISIBLE LOCATION.

H. CONTRACTOR SHALL COORDINATE PROPOSED WORK WITH EXISTING FIELD CONDITIONS INCLUDING ARCHITECTURAL BUILDING ELEMENTS, STRUCTURAL CONDITIONS, AND EXISTING MECHANICAL AND ELECTRICAL CONDITIONS.

I. CONTRACTOR SHALL ADHERE TO ALL BASE BUILDING AND CURRENT FACILITY STANDARDS AND REQUIREMENTS. SHUT-DOWN OF EXISTING BUILDING SYSTEMS FOR NEW PLUMBING CONNECTIONS SHALL BE AUTHORIZED, SCHEDULED AND PERFORMED IN ACCORDANCE TO BUILDING MANAGEMENT REQUIREMENTS. BUILDING SHALL BE NOTIFIED NO LESS THAN 72 HOURS PRIOR TO ANY SHUT-DOWNS. ACCESS TO AREAS OUTSIDE WORKS SPACES, SUCH AS ADJOINING SPACES AND SPACES IMMEDIATELY BELOW, SHALL BE PERFORMED IN ACCORDANCE TO BUILDING MANAGEMENT REQUIREMENTS.

1.03 WORK INCLUDED

A. INCLUDE ALL COSTS RELATED TO PROVIDE ALL PERMITS, LICENSES, INSPECTIONS, APPROVALS AND OTHER ARRANGEMENTS FOR WORK.

B. PROVIDE DEMOLITION OF EXISTING SYSTEMS INCLUDING REMOVAL OF ALL DEBRIS. COORDINATE WITH BUILDING MANAGEMENT EXISTING EQUIPMENT, FIXTURES OR DEVICES THAT SHALL BE RETAINED, CAREFULLY REMOVE AND TURN OVER TO OWNER. REMOVE ALL PIPING BACK TO ACTIVE SOURCE AND CAP LEAVING NO DEAD ENDS.

C. PRIOR TO DEMOLITION OF EQUIPMENT, FIXTURES OR TRIM, COORDINATE WITH OWNER ANY ITEMS TO BE RETAINED. CAREFULLY REMOVE SUCH ITEMS AND TURN OVER TO OWNER.

D. PROVIDE FIXTURES AS INDICATED ON PLUMBING AND ARCHITECTURAL DRAWINGS. FOR EXACT LOCATION OF FIXTURES, REFER TO ALL ARCHITECTURAL AND CONSULTANT PLANS AND ELEVATIONS.

E. MAKE NEW CONNECTIONS TO EXISTING BRANCH PIPING AS INDICATED ON PLANS AND RISER DIAGRAMS, AND AS NECESSARY TO COMPLETE THE WORK.

F. INSTALL PIPING WITH ADEQUATE PROVISIONS TO CONTROL EXPANSION AND CONTRACTION.

G. PROVIDE AND SET SLEEVES FOR ALL PIPING SYSTEMS PASSING THROUGH WALLS, FLOORS, PARTITIONS, ETC. SLEEVES SHALL BE SIZED AT LEAST TWO PIPE DIAMETERS LARGER THAN PIPING, OR OUTSIDE DIAMETER OF INSULATED PIPING.

H. ARRANGE FOR POWER TO SUPPORT ALL ELECTRICAL RELATED EQUIPMENT AND DEVICES.

I. PROVIDE ROUGH-IN AND FINAL CONNECTIONS TO ALL APPLIANCES AND EQUIPMENTS FURNISHED BY OTHERS, INCLUDING ALL REQUIRED DEVICES.

J. PROVIDE ALL CUTTING AND PATCHING OF BUILDING ELEMENTS AS REQUIRED FOR INSTALLATION OF WORK HERE IN SPECIFIED. ALL WORK SHALL BE COORDINATED AND APPROVED BY BUILDING AND ARCHITECTURAL FIELD REPRESENTATIVE PRIOR TO ANY WORK BEING PERFORMED.

K. PROVIDE FIRE-STOP AT ALL FLOOR AND WALL PENETRATIONS AS REQUIRED BY PROJECT PARAMETERS AND LOCAL CODE AUTHORITY.

L. PROVIDE ALL ACCESS PANELS. CONTRACTOR TO GIVE ALL LOCATIONS AND DIMENSIONS OF ALL REQUIRED ACCESS PANELS TO GENERAL CONTRACTOR. GENERAL CONTRACTOR WILL SUBMIT TO ARCHITECT FOR APPROVAL AND FINISH REQUIREMENTS PRIOR TO INSTALLATION.

M. COORDINATE PROPOSED WORK WITH ADDITIONAL TRADES AND OTHERS INVOLVED PRIOR TO ANY INSTALLATION WORK.

N. PROVIDE PIPING IDENTIFICATION MARKERS FOR ALL PIPING SYSTEMS WITH ANSI/ASME STANDARD COLORS AND LABELS. MARKERS SHALL BE INSTALLED 20 FEET ON CENTER MINIMUM AND MARKERS INSTALLED IN EACH ROOM.

O. PROVIDE VALVE TAGS OF BRASS OR STAINLESS STEEL HAVING A MINIMUM OF 1-1/2 INCH DIAMETER. PROVIDE COMPLETED VALVE CHART INDICATING VALVE SERVICE AND LOCATION.

P. PROVIDE AS-BUILT DRAWINGS IN AUTOCAD 2017 FORMAT AT COMPLETION OF PROJECT.

Q. PROVIDE TWO COPIES OF OWNER'S OPERATION AND MAINTENANCE MANUALS WITH ALL PLUMBING AND MEDICAL GAS EQUIPMENT, FIXTURES, TRIM AND DEVICES, MANUFACTURER'S MAINTENANCE INSTRUCTIONS AND MANUALS.

1.04 CLEANING

A. COORDINATE GENERAL CLEANUP WITH BUILDING MANAGEMENT.

B. CLEAN ALL PIPING SYSTEMS IN ACCORDANCE TO NFPA STANDARDS.

1.05 FIELD TESTING

A. TESTING SHALL BE IN STRICT COMPLIANCE TO THE APPLICABLE CODES AND NFPA STANDARDS.

B. NO WORK SHALL BE ENCLOSED, CONCEALED, COVERED UP OR USED UNTIL THE SYSTEMS HAVE BEEN INSPECTED AND APPROVED BY THE CODE OFFICIALS AND ARCHITECTURAL FIELD REPRESENTATIVE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALL NECESSARY ARRANGEMENTS FOR INSPECTIONS.

C. MEDICAL GAS SHALL BE TESTED AND CERTIFIED IN ACCORDANCE TO CURRENT NFPA #99 STANDARDS.

PART 3 - BASIC EXECUTION

3.01 MEDICAL GAS

A. MEDICAL GAS SYSTEM DEMOLITION AND INSTALLATION SHALL COMPLY WITH CURRENT EDITION OF NFPA 99.

B. SYSTEM TEST & CERTIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH NFPA STANDARDS. TEST & CERTIFICATION SHALL CONSIST OF ALL PIPELINES WITHIN AFFECTED AREA OF SCOPE AND PIPELINE IMMEDIATELY UPSTREAM OF AREA AS PRESCRIBED IN NFPA 99. FINAL CROSS CONNECTION, CERTIFICATION AND PURITY TESTS SHALL BE CONDUCTED BY A THIRD PARTY AS DIRECTED BY THE HOSPITAL.

C. PROVIDE ALL REQUIRED CUTTING AND PATCHING FOR THE NEW MEDICAL GAS SYSTEMS.

D. PROVIDE A NOTORIZED DOCUMENT INDICATING ALL TEST RESULTS FOR SUBMISSION TO ALL NECESSARY CODE AUTHORITIES AND FOR FACILITY RECORDS.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

TAG	SERVICE	TYPE	INLET SIZE (IN.)	FACE SIZE (IN.)	LINED PLENUM BOOT	DAMPER	MATERIAL / FINISH	MANUFACTURER	MODEL	REMARKS
A1	SUPPLY/ RETURN	MAX SECURITY GRILLE	8X8	10X10	NO	NO	STEEL - WHITE	TITUS	SG-SD	ALL

REMARKS:

1. COORDINATE FINISH WITH ARCHITECT.
2. PROVIDE WITH REMOTE ADJUSTABLE (NON-ELECTRONIC) DAMPER FOR BALANCING.
3. PROVIDE WITH ANGLE FRAME FOR INSTALLATION IN GYP CEILING (FIELD WELDING REQUIRED).

MECHANICAL CODE REFERENCE

LOCAL AMENDMENTS BY THE CITY OF AURORA, COLORADO

2015 INTERNATIONAL BUILDING CODE

2015 INTERNATIONAL MECHANICAL CODE

2015 INTERNATIONAL PLUMBING CODE

2012 NFPA 99 STANDARDS

2015 INTERNATIONAL ENERGY CONSERVATION CODE

SCOPE DESCRIPTION

THIS PROJECT CONSIST OF THE RENOVATION OF 3 EXISTING OBSERVATION ROOMS INTO SECURE HOLDING ROOMS SOLELY FOR THE CONTAINMENT OF THE PATIENT WITHIN THE ROOM.

HVAC:

REPLACE EXISTING GRDs WITHIN SECURE HOLDING ROOMS TO MEET SECURITY AND ANTI-LIGATURE REQUIREMENTS.BALANCE NEW GRDs TO PREVIOUS AIRFLOWS.

PLUMBING:

DEMOLISH EXISTING SINKS AT FUTURE SECURE HOLDING ROOMS. PROVIDE NEW FAUCETS AT (2) EXISTING HOLDING ROOM SINKS TO REMAIN.

ALTERNATE #1: REPLACE (2) SINKS IN EXISTING HOLDING ROOMS.

MEDICAL GAS:

CUT AND CAP EXISTING VAC, O2 AND MA PIPING SERVING FUTURE SECURE HOLDING ROOMS; WALL OUTLETS TO BE ABANDONED IN PLACE. RECERTIFY AFFECTED MEDICAL GAS PIPING DOWNSTREAM OF OBSERVATION UNIT ZONE VALVE BOX.

PER NFPA 99

FIRE SPRINKLER:

REPLACE SPRINKLER HEADS IN SECURE HOLDING ROOMS. NEW HEADS TO BE INSTITUTIONAL TYPE AND INSTALLED PER NFPA 13.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION
F-1	BATTERY POWERED SENSOR AND LIGATURE-RESISTANT FAUCET (CHICAGO FAUCETS MODEL #ELR-E12A-13ABCP) WITH 4" FIXED CENTERS, 0.5 GPM LAMINAR FLOW AND CONCEALED THERMOSTATIC MIXING VALVE. PROVIDE WITH MOUNTING PLATE IF INSTALLED ON EXISTING SINK (CHICAGO FAUCETS MODEL #ELR-E13-KJKCP)
SK-1	DROP IN STAINLESS STEEL BOWL (ELKAY 22"x19-1/2"x6-1/2" MODEL #LRAD221965) WITH 2 HOLES ON 4" CENTERS. PROVIDE WITH .3-1/2" GRID STRAINER AND TAILPIECE (ELKAY MODEL #LK18B)

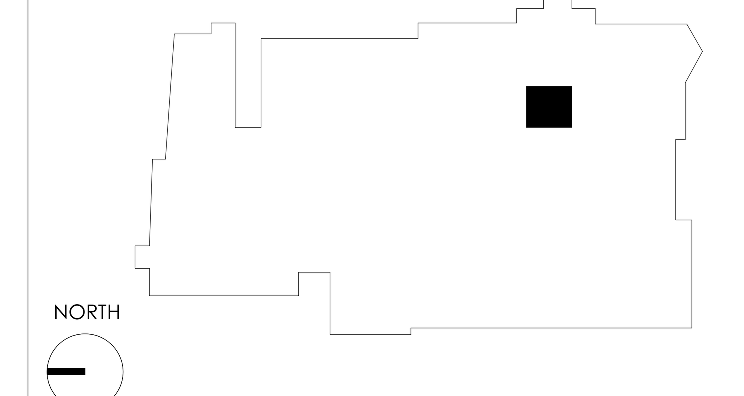
Provide self-closing or metered faucets in public restrooms.
2015 COA 22-326 (a)

PLUMBING MATERIAL SCHEDULE

TAG	DESCRIPTION
WASTE AND VENT	2-1/2" AND SMALLER PIPE MAY BE HARD TEMPERED, SEAMLESS COPPER TUBING, TYPE 'M'. FITTINGS SHALL BE WROUGHT COPPER OR WROUGHT COPPER ALLOY SOLDER JOINT DRAINAGE FITTINGS. OR HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS.
DOMESTIC WATER	HARD TEMPERED, SEMALESS COPER TUBING, TYPE 'L' CONFORMING TO ASST. STANDARD B-88. FITTINGS SHALL BE WROUGHT SEAT TYPE FITTINGS MANUFACTURED OF SEAMLESS TUBING FORGED BRONZE OR BRASS ROD TO MEET SAME STANDARD B16.22
MEDICAL GAS	HARD DRAWN SEAMLESS TYPE 'K' MEDICAL GAS TUBE: ASTM B819 AND MARKED ACCORDINGLY FOR SERVICE TYPE PER NFPA 99 STNDARDS. FITTINGS SHALL BE CLEANED AND LISTED FOR OXYGEN SERVICE. JOINTS SHALL BE BRAZED IN ACCORDANCE TO NFPA 99 AND MSS SP-73 BRAZING STANDARDS

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: John Lichtner
Date: Dec 24, 2020
2015 INTERNATIONAL CODES & 2020 NEC

KEY PLAN



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Greenwood Village, CO 80112
ph: 303.225.6320

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No.	Description	Date

COLORADO LICENSED MICHAEL P THOMPSON 53150 PROFESSIONAL ENGINEER
10/08/2020

19-009D TMCA MEDICAL DECISION UNIT

1501 S POTOMAC ST
AURORA, CO 80012

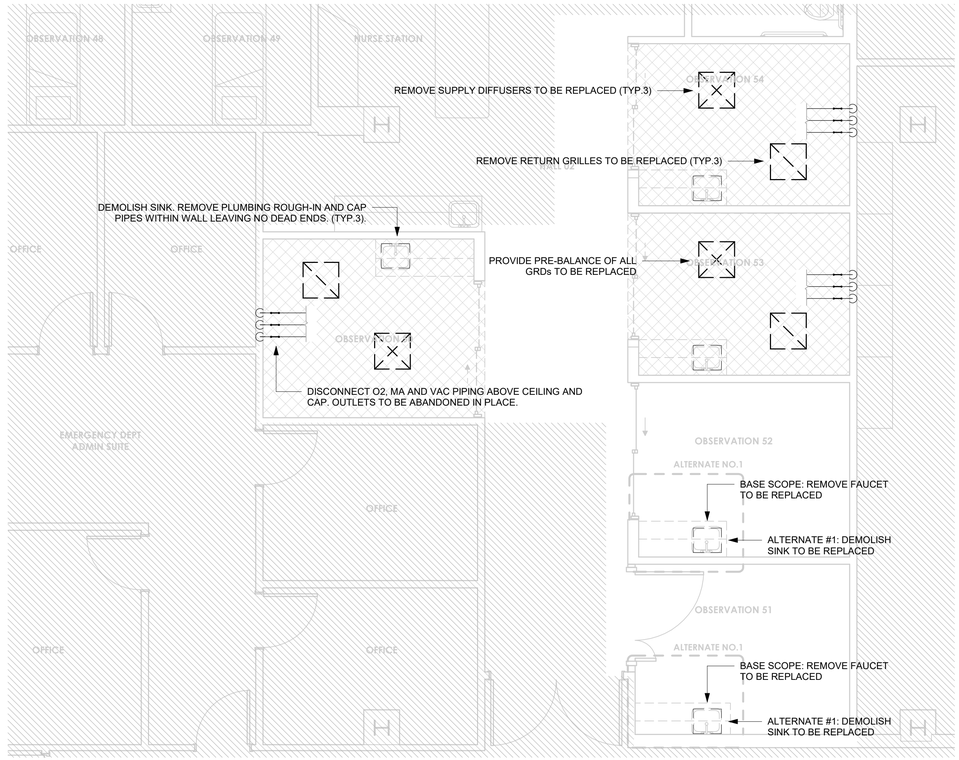
Issue	100% CD
Date	08 OCTOBER 2020
Project Number	20196
Drawn by	BH
Checked by	JH

Sheet Title

MECHANICAL TITLE SHEET

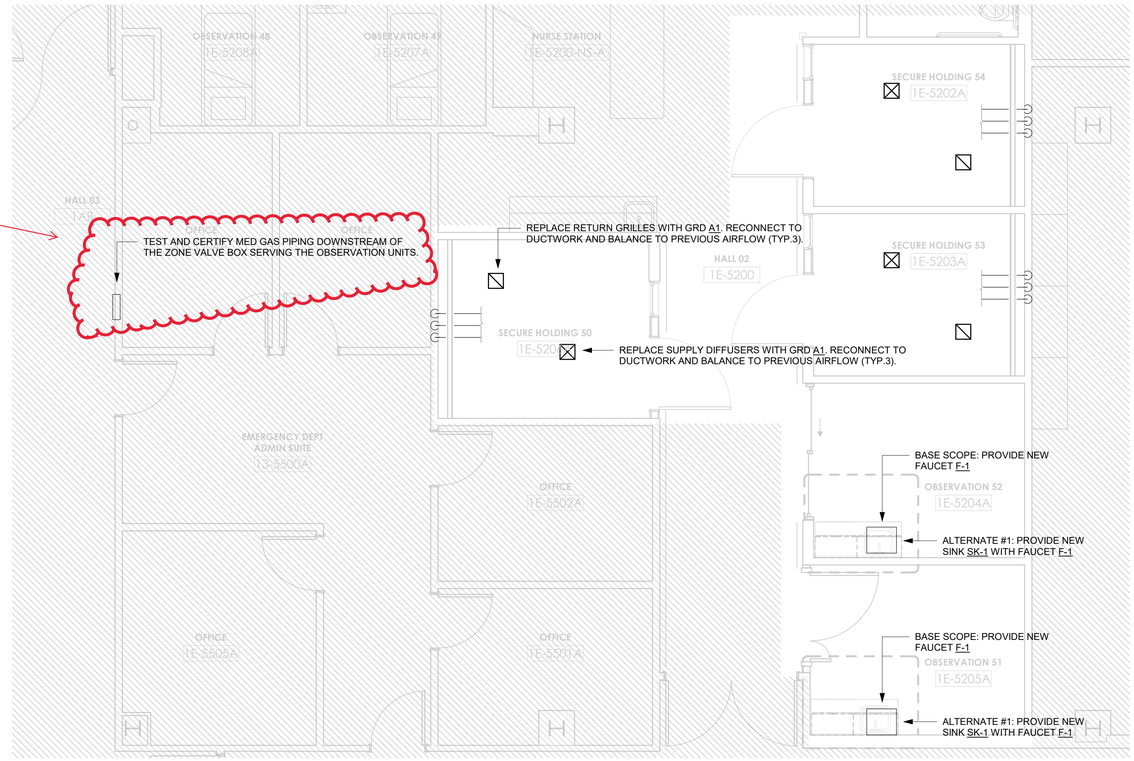
Sheet Number

M.000



2 LEVEL 01-MECHANICAL-DEMOLITION
1/4" = 1'-0"

TESTING OF MED GAS PER NFPA 99



1 LEVEL 01-MECHANICAL
1/4" = 1'-0"

GENERAL NOTES:

1) REPLACE SPRINKLER HEADS IN SECURE HOLDING ROOMS. NEW HEADS TO BE INSTITUTIONAL TYPE AND INSTALLED PER NFPA 13.

2) FIELD VERIFY EXISTING CONDITIONS PRIOR TO INSTALL.

SEPARATE FIRE SPRINKLER PERMIT REQUIRED: Due to the proposed work the general contractor is required to obtain the services of a fire sprinkler contractor to determine if a separate sprinkler permit is required. If it is determined that the spacing of the fire sprinkler heads is not in compliance, then a separate fire sprinkler permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. **2015 IFC, Section 105.7.1.**

Heating system shall be capable of maintaining 68 degrees F a 3'0" above the floor.
2015 IMC 309, IRC 303.9 and IBC 1204.1

Provide proof of a flame spread less than 26 and a smoke development less than 50 for any material used in a plenum.
2015 IMC 602.2.1

Provide drains no smaller than allowed by **2015 IPC 709.1 and 710.1(1)**

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Dec 24, 2020*
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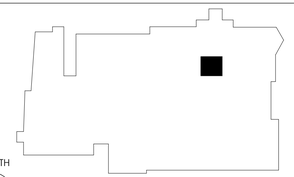
KEY PLAN



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Sheet Title
MECHANICAL DEMOLITION + FLOOR PLAN

Sheet Number
M.201

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10/8/2020 2:23:30 PM

GENERAL ELECTRICAL SYMBOLS

	CONDUIT STUBBED UP
	CONDUIT STUBBED DOWN
	FLEXIBLE CONDUIT
	MULTI–OUTLET ASSEMBLY
W1 W1	WIREWAY
C1 C1	CABLE TRAY
J	JUNCTION BOX– EXPOSED OR IN CEILING
JW	JUNCTION BOX – WALL MOUNTED
	JUNCTION BOX WITH FLEXIBLE CONDUIT AND FINAL CONNECTION TO EQUIPMENT.
PDC 1.3	EQUIPMENT IDENTIFICATION TAG

LIGHTING SYMBOLS

F1 1a	2' X 4' LIGHTING FIXTURE.
F1 1a	2' X 2' LIGHTING FIXTURE.
F1 1a	1' X 4' LIGHTING FIXTURE.
F1 1a	LINEAR LIGHTING FIXTURE– LENGTH AS INDICATED.
F1 1a	WALL MOUNTED LINEAR LIGHTING FIXTURE– LENGTH AS INDICATED.
F1 F1 1a 1a	DOWNLIGHT LIGHTING FIXTURE.
F1 F1 1a 1a	WALL MOUNTED LIGHTING FIXTURE
F1 E1	2' X 4' LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT.
F1 E1	LINEAR LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT.
F1 F1 E1 E1	DOWNLIGHT LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT.
F1a E2	BATTERY PACK, EMERGENCY LIGHTING UNIT
	REMOTE HEAD CONNECTED TO BATTERY PACK.

LIGHTING FIXTURES: "F1" INDICATES LIGHTING FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING. "1" INDICATES CIRCUIT NUMBER "a" INDICATES SWITCH CONTROL. SHADING OF LIGHTING FIXTURE OR "E" INDICATES LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT.

NEW
#3 E3
#21 E5
NEW
#3N E3
#21N E5
EXISTING
#3E E3
#21E E5

"#x" INDICATES INSCRIPTION, ARROWS, AND SINGLE OR DOUBLE FACED, AS SHOWN BELOW. SHADED QUADRANTS INDICATES DIRECTION OF LIGHTED FACES.

"#1"	FIRE ESCAPE	"#14"	TRIANGLE
"#2"	STAIRWAY	"#15"	ELEVATOR
"#2A"	STAIRS	"#16"	FIRE ESCAPE
"#3"	EXIT	"#17"	STAIRWAY
"#4"	FIRE ESCAPE	"#17A"	STAIRS
"#5"	STAIRWAY	"#18"	EXIT
"#5A"	STAIRS	"#19"	FIRE ESCAPE
"#6"	EXIT	"#20"	STAIRWAY
"#7"	FIRE ESCAPE	"#20A"	STAIRS
"#8"	STAIRWAY	"#21"	EXIT
"#8A"	STAIRS	"#22"	FIRE ESCAPE
"#9"	EXIT	"#23"	STAIRWAY
"#10"	FIRE ESCAPE	"#23A"	STAIRS
"#11"	STAIRWAY	"#24"	EXIT
"#11A"	STAIRS		
"#12"	EXIT		
"#13"	EXIT – RECESSED		

3W XXa S

LIGHT SWITCH, SINGLE POLE UNLESS NOTED OTHERWISE:

"a"	INDICATES LIGHTS CONTROLLED	"XX"	INDICATES CIRCUIT NUMBER
"D"	INDICATES DIMMER SWITCH	"WP"	INDICATES WEATHERPROOF
"2P"	INDICATES EXPLOSION PROOF	"2P"	INDICATES 2 POLE
"FD"	INDICATES FLUORESCENT DIMMER	"3P"	INDICATES THREE POLE
"ID"	INDICATES INCANDESCENT DIMMER	"3W"	INDICATES THREE–WAY
"K"	INDICATES KEY OPERATED	"4W"	INDICATES FOUR–WAY
"LV"	INDICATES LOW VOLTAGE	"OS"	INDICATES COMBINATION WITH OCCUPANCY SENSOR
"MC"	INDICATES MOMENTARY CONTACT	"V"	INDICATES COMBINATION WITH VACANCY SENSOR
"P"	INDICATES PILOT LIGHT		

TC	TIME CLOCK
PC	PHOTOCELL
TS	TIME SWITCH
OS	OCCUPANCY SENSOR

FIRE ALARM SYMBOLS

S	FIRE ALARM MANUAL PULL STATION
SD	SMOKE DETECTOR
D	HEAT DETECTOR
DD	DUCT DETECTOR
RA	REMOTE INDICATOR LIGHT FOR SMOKE DETECTOR
S	VOICE SPEAKER
SV	VOICE SPEAKER WITH VISUAL ALARM
V	VISUAL ALARM
MD	MAGNETIC DOORHOLDER
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL

POWER SYMBOLS

WALL	FLOOR BOX	POKE–THROUGH	
			DUPLEX RECEPTACLE
			DOUBLE DUPLEX RECEPTACLE
			DUPLEX RECEPTACLE – SPLIT WIRED
			SINGLE RECEPTACLE
			COMBINATION DUPLEX RECEPTACLE TELEPHONE/ DATA SYSTEMS OUTLET
			COMBINATION DOUBLE DUPLEX RECEPTACLE TELEPHONE/ DATA SYSTEMS OUTLET
			SPECIAL RECEPTACLE – NEMA TYPE AS INDICATED
P	P	P	JUNCTION BOX WITH FLEXIBLE CONDUIT AND FINAL EQUIPMENT OR FURNITURE SYSTEM POWER CONNECTION

WP XX

ADJACENT LETTERS IN THE SYMBOLS ABOVE INDICATE THE FOLLOWING:

"CR" INDICATES CHILD RESISTANT (SAFETY TYPE)
"E" INDICATES RECEPTACLE FED BY EMERGENCY CIRCUIT
"EP" INDICATES RECEPTACLE IS EXPLOSION PROOF
"EWC" INDICATES RECEPTACLE SERVES ELECTRIC WATER COOLER
"GFI" INDICATES RECEPTACLE HAS GROUND FAULT CIRCUIT INTERRUPTER
"IG" INDICATES RECEPTACLE HAS ISOLATED GROUND
"TVS" INDICATES RECEPTACLE HAS TRANSIENT VOLTAGE SURGE SUPPRESSION
"WP" INDICATES RECEPTACLE HAS WATERPROOF COVER
"XX" INDICATES RECEPTACLE CIRCUIT NUMBER
"S" INDICATES RECEPTACLE IS SAFETY TYPE

	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP
USB	DUPLEX RECEPTACLE WITH 2 USB PORTS
USB	OUTLET WITH 4 USB PORTS
	PUSHBUTTON STATION WITH ONE BUTTON
	PUSHBUTTON STATION WITH TWO BUTTONS
	PUSHBUTTON STATION WITH TWO BUTTONS AND A PILOT LIGHT
	PUSHBUTTON STATION WITH THREE BUTTONS
KR	KEY RESET CONTROL STATION
S/L	STOP–LOCK PUSHBUTTON STATION
EPO	EMERGENCY POWER OFF MUSHROOM PUSHBUTTON CONTROL STATION
T	THERMOSTAT
	SWITCHGEAR, SWITCHBOARD OR MOTOR CONTROL CENTER, DASHED LINES INDICATE FUTURE SECTIONS, ARROW INDICATES FRONT
	SURFACE MOUNTED DISTRIBUTION PANELBOARD
	SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD
	RECESSED MOUNTED BRANCH CIRCUIT PANELBOARD
D	DAMPER MOTOR
	MOTOR – RATED AS INDICATED
A CB	CIRCUIT BREAKER IN ENCLOSURE, "A" INDICATES AMPERE RATING OF BREAKER
AS	NON–FUSED DISCONNECT SWITCH, "AS" INDICATES AMPERE RATING OF SWITCH
AS/AF	FUSED DISCONNECT SWITCH, "AS" INDICATES AMPERE RATING OF SWITCH AND "AF" INDICATES AMPERE RATING OF FUSE
AT CB	COMBINATION MOTOR STARTER AND CIRCUIT BREAKER "AT" INDICATES AMPERE RATING OF BREAKER
AS	COMBINATION MOTOR STARTER AND NON–FUSED DISCONNECT, "AS" INDICATES AMPERE RATING OF SWITCH
AS/AF	COMBINATION MOTOR STARTER AND FUSED DISCONNECT, "AS" INDICATES AMPERE RATING OF SWITCH AND "AF" INDICATES AMPERE RATING OF FUSE
C	MECHANICALLY HELD CONTACTOR, "A" INDICATES AMPERE RATING OF CONTACTOR
T	TRANSFORMER

SINGLE LINE DIAGRAM SYMBOLS

	SWITCH
	FUSE
	GROUND FAULT SENSOR
	GROUNDING ELECTRODE CONDUCTOR
	CIRCUIT BREAKER
	PANELBOARD
	SWITCHBOARD OR MOTOR CONTROL CENTER AS INDICATED
	TRANSFORMER WITH FLEXIBLE CONDUIT AND PAD
K	KEY LOCK
BFP	BLOWN FUSE PROTECTION
GFR	GROUND FAULT RELAY
TEST	GROUND FAULT TEST PANEL
ST	SHUNT TRIP

SIGNAL SYMBOLS

CM	MICROPROCESSOR BASED CIRCUIT MONITOR
	BUZZER
	BELL
CH	CHIME
T	TRANSFORMER
S	SPEAKER, WALL OR CEILING MOUNTED
AMP	AMPLIFIER
M	MICROPHONE JACK
VC	VOLUME CONTROL
CR	CARD READER
ES	ELECTRIC STRIKE
DC	DOOR CONTACT
MS	MOTION SENSOR
KP	KEYPAD

WALL	FLOOR BOX	POKE–THROUGH	
			SUBSCRIPT INDICATES THE FOLLOWING FOR BELOW WALL MOUNTED OUTLETS, (U.N.O.): "H" HANDICAP MOUNTED AT 48" A.F.F. "P" PAY PHONE MOUNTED AT 54" A.F.F. "W" WALL MOUNTED AT 54" A.F.F.
			COMMUNICATIONS OUTLET – PROVIDE 2–GANG BACKBOX WITH 1–GANG MUDRING AND 1"C STUBBED TO ACCESSIBLE CEILING CAVITY WITH INSULATING BUSHING.
WAP			WIRELESS ACCESS POINT OUTLET
AV1			AUDIOVISUAL OUTLET – PROVIDE 2–GANG BACKBOX WITH 1–GANG MUDRING AND 1"C STUBBED TO ACCESSIBLE CEILING CAVITY WITH INSULATING BUSHING.
AV2			AUDIOVISUAL OUTLET – PROVIDE 2–GANG BACKBOX WITH 2–GANG MUDRING AND 1"C STUBBED TO ACCESSIBLE CEILING CAVITY WITH INSULATING BUSHING.

HEALTH CARE CALL SYMBOLS

1	SINGLE CALL STATION
2	NOT USED
3	TOILET BATH OR SHOWER CALL STATION
4	SINGLE CORRIDOR DOME ZONE LIGHT
5	NURSE CALL MASTER ANNUNCIATOR
6	NURSE CALL SYSTEM CONTROL PANEL
7	MULTIPLE CORRIDOR DOME ZONE LIGHT
8	DUTY STATION
9	STAFF DUTY STATION
10	AUXILIARY REPLY STATION
11	EXPLOSION–PROOF FOOT SWITCH
12	OPERATING AND DELIVERY ROOM STAFF STATION
13	NURSERY MASTER STATION
14	NURSERY INTERCOM STATION HAND–SET ON CORRIDOR SIDE OF NURSERY
15	AMPLIFIER FOR NURSERY SYSTEM
16	PSYCHIATRIC AUDIO MONITOR STATION
17	PSYCHIATRIC RECEPTACLE
18	PSYCHIATRIC KEY SWITCH
19	PSYCHIATRIC EMERGENCY CALL BOTTOM
20	PATIENT EXTENSION RECEPTACLE
21	PATIENT SINGLE CORD BEDSIDE STATION
22	PATIENTS DOUBLE CORD BEDSIDE STATION
23	CODE BLUE STATION

ABBREVIATIONS

NOTE: ABBREVIATIONS ARE ALPHABETICALLY LISTED BY DESCRIPTION.

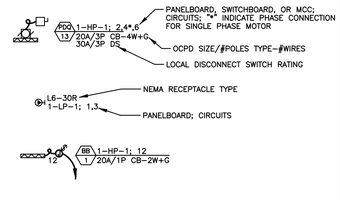
ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
ACL	ACROSS THE LINE
ALM	ALARM
AC	ALTERNATING CURRENT
A	AMPERE
AMP	AMPERE
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
ANN	ANNUNCIATOR
ATS	AUTOMATIC TRANSFER SWITCH
BAL	BALLAST
BR	BRANCH
BRKR	BREAKER
BGB	BUILDING GROUND BOX
CAB	CABINET
CATV	CABLE TELEVISION
C.B.	CIRCUIT BREAKER
CCT	CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION
CLO	CLOSET
COAX	COAXIAL
C.U.	COEFFICIENT OF UTILIZATION
COMED	COMMONWEALTH EDISON COMPANY
C	CONDUIT
CONN	CONNECTION
CONV	CONVENIENCE
CU	COPPER
CUH	CABINET UNIT HEATER
CT	CURRENT TRANSFORMER
CTRL	CONTROLLER
HZ	HERTZ (CYCLES/SECOND)
DC	DIRECT CURRENT
DS	DISCONNECT SWITCH
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DO	DRAWOUT
DT	DUSTTIGHT
ELEC	ELECTRIC
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING (THIN WALL CONDUIT)
EQ	EQUIPMENT
EUH	ELECTRIC UNIT HEATER
EX	EXISTING
EP	EXPLOSION PROOF
FPB	FAN POWERED BOX
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FB	FLOORBOX
FLUOR	FLUORESCENT
F	FUSE
F.S.	FUSED SWITCH
GEN	GENERATOR
GRD	GROUND
GFI	GROUND FAULT INTERRUPTER
GHW	GALVANIZED HEAVYWALL STEEL CONDUIT
HV	HIGH VOLTAGE
HP	HORSE POWER
INC	INCANDESCENT
IC	INTERRUPTING CAPACITY
IMC	INTERMEDIATE GRADE CONDUIT
JB	JUNCTION BOX
KW	KILOWATT
KWH	KILOWATT–HOUR
KVA	KILOVOLT–AMPERE
KO	KNOCKOUT
LTG	LIGHTING
LS	LOUD SPEAKER
LV	LOW VOLTAGE
MH	MANHOLE
MFR	MANUFACTURER
MV	MULTI VAPOR
MERC.	MERCURY VAPOR
MTR	MOTOR
MCC	MOTOR CONTROL CENTER
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEUT	NEUTRAL
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PNL	PANEL
PH	PHASE
PT	POTENTIAL TRANSFORMER
PWR	POWER
PRI	PRIMARY
PROT.	PROTECTION OR PROTECTIVE
PA	PUBLIC ADDRESS
PB	PULL BOX
RT	RAINTIGHT
RECP	RECEPTACLE
RC	REMOTE CONTROL
R	RESISTANCE
REL	RELOCATED
SEC	SECONDARY
SC	SHORT CIRCUIT
SP	SINGLE POLE
SPST	SINGLE POLE SINGLE THROW
SPDT	SINGLE POLE DOUBLE THROW
SPKR	SPEAKER
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STA	STATION
S	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
SYS	SYSTEM
TC	TERMINAL CABINET
TEL	TELEPHONE
TEL.CL.	TELEPHONE CLOSET
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TERM.	TERMINAL
TX	TRANSFORMER
T	TRIP
TL	TWIST LOCK
UL	UNDERWRITER'S LABORATORIES
UNG	UNGROUNDED
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VP	VAPORPROOF
VT	VAPORTIGHT
V	VOLT
VA	VOLT–AMPERE
WT	WATERTIGHT
W	WATT
WP	WEATHERPROOF
XR	EXISTING TO BE REMOVED
XRL	EXISTING TO BE RELOCATED
XRW	EXISTING TO BE REWIRED

BRANCH CIRCUIT WIRING SCHEDULE

OCPD	1P & 2P	2P–3W & 3P–3W	3P–4W
15	2#12, 1#12G, 3/4"C	3#12, 1#12G, 3/4"C	4#12, 1#12G, 3/4"C
20	2#12, 1#12G, 3/4"C	3#12, 1#12G, 3/4"C	4#12, 1#12G, 3/4"C
25	2#10, 1#10G, 3/4"C	3#10, 1#10G, 3/4"C	4#10, 1#10G, 3/4"C
30	2#10, 1#10G, 3/4"C	3#10, 1#10G, 3/4"C	4#10, 1#10G, 3/4"C
35	2#8, 1#10G, 3/4"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C
40	2#8, 1#10G, 3/4"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C
45	2#6, 1#10G, 3/4"C	3#6, 1#10G, 3/4"C	4#6, 1#10G, 1"C
50	2#6, 1#10G, 3/4"C	3#6, 1#10G, 3/4"C	4#6, 1#10G, 1"C
60	2#4, 1#10G, 3/4"C	3#4, 1#10G, 1"C	4#4, 1#10G, 1 1/4"C
70	2#4, 1#8G, 3/4"C	3#4, 1#8G, 1"C	4#4, 1#8G, 1 1/4"C
80	2#3, 1#8G, 1"C	3#3, 1#8G, 1"C	4#3, 1#8G, 1 1/4"C
90	2#2, 1#8G, 1"C	3#2, 1#8G, 1 1/4"C	4#2, 1#8G, 1 1/4"C
100	2#1, 1#8G, 1 1/4"C	3#1, 1#8G, 1 1/4"C	4#1, 1#8G, 1 1/2"C

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF LIGHTING AND CONTROLS, RECEPTACLES, COMMUNICATIONS DEVICES, FIRE ALARM DEVICES, AND LIFE SAFETY DEVICES.
2. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF HVAC, PLUMBING, AND FIRE PROTECTION EQUIPMENT.
3. REFER TO PANEL DIVISION LINES FOR BRANCH CIRCUIT HOMERUN PANELBOARD DEMARCATION LINES, UNLESS NOTED OTHERWISE.
4. BRANCH CIRCUIT WIRING FOR 120 VOLT 20 AMP CIRCUITS WIRED TO 208Y/120V SYSTEMS SHALL BE AS FOLLOWS:
   A. GENERAL RECEPTACLES AND INCANDESCENT LIGHTING LOADS:
      UP TO 100 FEET IN LENGTH: 3#12, 1#12N, 1#12G –3/4"C.
      OVER 100 FEET IN LENGTH: 3#10, 1#10N, 1#10G –3/4"C.
5. BRANCH CIRCUIT WIRING FOR 277 VOLT 20 AMP CIRCUITS WIRED TO 480Y/277V SYSTEMS SHALL BE AS FOLLOWS:
   A. LIGHTING LOADS:
      UP TO 150 FEET IN LENGTH: 3#12, 1#10N, 1#12G –3/4"C.
      OVER 150 FEET IN LENGTH: 3#10, 1#8N, 1#10G –3/4"C.
6. DISTANCES FOR BRANCH CIRCUIT WIRING, AS INDICATED IN NOTES 4 & 5 ABOVE, SHALL BE MEASURED FROM THE FINAL OCPD TO THE CENTER OF THE BRANCH CIRCUIT LOAD. SIZES ARE A MINIMUM AND CONTRACTOR MAY BE REQUIRED TO UP–SIZE TO ACCOUNT FOR VOLTAGE DROP.
7. COMPUTER EQUIPMENT OUTLETS, OUTLETS WITHIN WORKSTATIONS, OFFICES, FURNITURE SYSTEMS, AND THE LIKE SHALL BE CONSIDERED NON–LINEAR LOADS.
8. BRANCH CIRCUIT CONDUCTORS SIZED AS INDICATED IN NOTES 4 & 5 ABOVE AND/OR ON PLAN SHALL BE ROUTED TO EACH ELECTRIC DEVICE CONNECTED TO THE INDICATED BRANCH CIRCUIT. PROVIDE WIRENUTS AND PIGTAILS SIZED TO MATCH THE CORRESPONDING OCPD LISTED IN THE BRANCH CIRCUIT WIRING SCHEDULE FOR ELECTRICAL DEVICE TERMINATIONS WHERE THE ELECTRICAL DEVICE LUGS CANNOT ACCOMMODATE THE INCREASED CONDUCTOR SIZE INDICATED ABOVE, U.N.O.
9. REFER TO THE BRANCH CIRCUIT WIRING SCHEDULE FOR MINIMUM INSTALLATION CRITERIA. BRANCH CIRCUIT WIRING SPECIFIED IN NOTES AND/OR ON PLAN OR OTHER SCHEDULES SHALL TAKE PRECEDENCE OVER THE INFORMATION PROVIDED IN THE SCHEDULE.
10. PROVIDE AN EQUIPMENT GROUNDING SCREW WITHIN THE RECEPTACLE OUTLET BOX FOR RECEPTACLES WITHOUT A SIDE–MOUNTED GROUNDING SCREW FOR TERMINATION OF THE BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.
11. ELECTRICAL DEVICE BRANCH CIRCUIT WIRING LEGEND:



12. MOUNTING HEIGHTS OF ELECTRICAL ITEMS SHALL BE AS LISTED BELOW ABOVE FINISHED FLOOR TO CENTERLINE, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS OR AS REQUIRED BY CODE:

A. GENERAL RECEPTACLES	15"
B. PATIENT RECEPTACLES	18"
C. OUTDOOR RECEPTACLES	24"
D. GENERAL TELE AND DATA OUTLETS	15"
E. PATIENT TELE AND DATA OUTLETS	18"
F. GENERAL TOGGLE SWITCHES	48"
G. FIRE ALARM PULL STATIONS	48"
H. SECURITY CALL STATIONS	48"
I. CLOCK AND PAGING SPEAKER OUTLETS	84"
J. FIRE ALARM AUDIO VISUAL DEVICES	80"
K. GENERAL WALL MOUNTED LIGHTS	90"
L. CORRIDOR WALL SCONCES (>4" DEEP)	66"
M. EXIT SIGNS	90"
N. INDIVIDUAL DISCONNECTS AND STARTERS	60"
O. GROUPED DISCONNECTS AND STARTERS	> 12", < 72"
P. PANELBOARD OVERCURRENT DEVICES	> 12", < 72"

13. PROVIDE NEW FIRE ALARM DEVICES AS INDICATED IN THE DOCUMENTS OR AS OTHERWISE REQUIRED BY LOCAL CODES. NEW DEVICES SHALL BE PRODUCTS OF THE EXISTING FIRE ALARM MANUFACTURER, JCI/SIMPLEX. CONTACT DAN RAAP – DANIEL.RAAP@JCI.COM.
14. PROVIDE MODIFICATIONS TO THE OVERHEAD AND INTERDEPARTMENTAL PAGING SYSTEM UTILIZING THE HOSPITAL PAGING SYSTEM MAINTENANCE CONTRACTOR, BEACON COMMUNICATIONS. CONTACT ANDREAS KACZANOWSKI – 303–750–6500.
15. PROVIDE NEW NURSE CALL DEVICES AS INDICATED IN THE DOCUMENTS. NEW DEVICES SHALL BE PRODUCTS OF THE EXISTING NURSE CALL SYSTEM MANUFACTURER, RAULAND RESPONDER IV. MODIFICATIONS TO THE NURSE CALL SYSTEM SHALL BE PERFORMED BY THE HOSPITAL NURSE CALL SYSTEM MAINTENANCE CONTRACTOR, BEACON COMMUNICATIONS. CONTACT ANDREAS KACZANOWSKI – 303–750–6500.
16. PROVIDE EMPTY RACEWAY FOR COMMUNICATIONS SYSTEMS. COMMUNICATIONS CABLING AND OUTLETS SHALL BE FURNISHED AND INSTALLED BY THE OWNER'S COMMUNICATIONS CONTRACTOR UNDER SEPARATE CONTRACT. COORDINATE RACEWAY REQUIREMENTS WITH COMMUNICATIONS CONTRACTOR.
17. PROVIDE EMPTY RACEWAY FOR PATIENT MONITORING SYSTEM. PATIENT MONITORING CABLING AND OUTLETS SHALL BE FURNISHED AND INSTALLED BY THE OWNER'S PATIENT MONITORING VENDOR, PHILIPS, UNDER SEPARATE CONTRACT. COORDINATE RACEWAY REQUIREMENTS WITH PATIENT MONITORING VENDOR.

ELECTRICAL CODE REFERENCE

CITY OF AURORA, COLORADO MUNICIPAL CODE
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRICAL CODE

ELECTRICAL DRAWING LIST

E.000	ELECTRICAL SYMBOL LIST AND GENERAL NOTES	NO SCALE
E.001	ELECTRICAL SPECIFICATIONS	NO SCALE
E.002	ELECTRICAL ONE–LINE DIAGRAM	NO SCALE
ED.201	LEVEL 01 DEMOLITION PLAN – ELECTRICAL	1/8"=1'–0"
E.200	LEVEL 01 FLOOR PLAN – ELECTRICAL OVERALL	1/16"=1'–0"
E.201	LEVEL 01 FLOOR PLAN – ELECTRICAL	1/8"=1'–0"
E.202	LEVEL 02 ROOF PLAN – ELECTRICAL	1/8"=1'–0"

Field Inspection consultation is available upon request. Call 303-739-7420 to request a consultation

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Erick M. Bumpass
Date: Dec 24, 2020
2015 INTERNATIONAL CODES & 2020 NEC
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Permit #: 20-1909023

PATH architecture + planning 21

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No.	Description	Date

COLORADO LICENSED
MICHAEL P. THOMPSON
55150
PROFESSIONAL ENGINEER
10/08/2020

Issue	ISSUE FOR CONSTRUCTION
Date	09 OCTOBER 2020
Project Number	19-009D
Drawn by	Author
Checked by	Checker

Sheet Title
ELECTRICAL SYMBOL LIST AND GENERAL NOTES

Sheet Number
E.000

G:\19205–00\350_ELEC\DRAWINGS\E.000 ELECTRICAL COVER SHEET.DWG Last edited by KYLE.CROWLEY on 04–06–2020 @ 5:26

DIVISION 16000 – ELECTRICAL

1. GENERAL

A. Requirements:

1) Products and execution shall be provided for a complete and fully operational electrical system throughout the extent of the project, in conformance with applicable codes, laws, ordinances and agency standards of governing bodies having jurisdiction, and in strict accordance with the contract documents, and building standards.

2) Products, including equipment, devices, fixtures, and materials shall be new unless noted otherwise, UL listed, and bear appropriate label.

3) Execution, including preparation, installation, starting, and testing shall be performed by skilled trades personnel, in compliance with the associated manufacturers recommendations, and coordinated with the other construction trades.

B. Applicable Laws and Agency Standards:

1) American National Standards Institute	ANSI
2) American Society for Testing and Materials	ASTM
3) Americans with Disabilities Act	ADA
4) Electrical Testing Laboratories	ETL
5) Electronic/Telecommunications Industries Association	EIA/TIA
6) Federal Aviation Administration	FAA
7) Illuminating Engineering Society of North America	IESNA
8) Institute of Electrical and Electronics Engineers	IEEE
9) Insulated Cable Engineers Association	ICEA
10) National Electrical Manufacturers Association	NEMA
11) National Fire Protection Association	NFPA
12) Underwriters' Laboratories	UL

D. Submittals:

4) Product Data shall be prepared and submitted for review prior to construction for the following products: cabinets, access panels, supports, raceway components, floor boxes, fire proof fittings, wire, fuses, circuit breakers, receptacles, toggle switches, slide dimmers, disconnect switches, motor starters, contactors, lighting fixtures, ballasts, lamps, controls, fire alarm devices, life safety devices, and electric heating equipment.

5) Shop Drawings shall be prepared and submitted for review prior to construction for the following products: metering equipment, distribution panelboards, branch panelboards, transformers, cable tray, dimming equipment, fire alarm equipment, and life safety equipment.

6) Test Results shall be prepared and submitted prior to project completion for cable insulation, grounding system, emergency system, fire alarm system, and life safety systems in accordance with authorities having jurisdiction, and applicable codes and agency standards.

7) Manufacturers Instructions shall be prepared and submitted prior to construction including installation manuals with application conditions and limitations for electrical apparatus use, storage, handling, protection, examination, preparation, installation, and starting.

8) Project Record Documents shall be prepared using AutoCAD or equivalent CAD package. Project Record Documents shall be submitted on reproducible media prior to project completion for electrical systems. Record actual location of equipment, devices, fixtures, etc. Record actual routing of overhead feeders. Record actual routing of feeders below slab and branch circuits within or below slab.

9) Maintenance Data shall be prepared and submitted prior to project completion for electrical apparatus including operation manuals and maintenance manuals.

F. Coordination:

1) Electrical Engineer: Notify the Engineer of any conflicting design information or any design intentions which are not readily interpreted from the contract documents prior to any product selection or execution of work. Notify the Engineer of any products which are damaged, unsuitable, incompatible, or non–compliant with any applicable codes or ordinances of any governing bodies having lawful jurisdiction.

2) Architect: Coordinate construction of the electrical system with the Architect. Final locations and mounting heights of electrical equipment, fire alarm equipment, receptacles, switches, communications devices, fire alarm devices, lighting fixtures, etc. shall be as directed by the Architect.

3) Construction Trades: Coordinate work with other construction trades.

4) Building Management: Meet on site with the building engineer to become familiar with building standards. Normal building working hours shall be recognized. After–hours work or temporary services shall be with prior written approval from building management. Enclose construction area from other areas to prevent transmission of dust, dirt and noise into other existing tenant areas. Product and waste transfer shall be coordinated with building management for scheduling of the elevators, deliveries, and waste removal.

5) Existing Building Systems: Review building standards with the building engineer. Perform a site visit to verify the existing site conditions. Costs associated with unforeseen conditions as result of not performing a site visit shall not be an entitlement for an increase to the contract. Construction shall be performed without interruption to the building power, communications, security, fire alarm and life safety systems, or interference to common areas, corridors, exits or existing tenants. Where any construction would interfere with the daily operations of the building or other tenants, after–hours work or temporary services shall be provided at no increase to the contract.

H. Warrantee and Guarantee

1) Provide warrantee and manufacturers certificate for each product, minimum of one year or longer as specified, from the date of occupancy. Repair and/or replace any equipment, devices, fixtures, materials, etc. with defect as required at no increase to the contract.

2) Provide guarantee of installation for a period of one year from the date of occupancy. Repair and/or reinstall any work with defect as required at no increase to the contract. Provide guarantee of rework for a period of one year from the completion of repair or reinstallation.

3) Damage caused to finishes, surfaces, ceiling tiles, equipment, etc. shall be repaired and/or replaced to match the pre–existing condition at no increase to the contract.

I. Pay fees and other charges incidental to the electrical work and obtain and pay for required liability and casualty insurance, permits, licenses, inspections, taxes, etc.

J. Construction shall be done during regular working hours and days, unless otherwise specified. Work required to be performed during overtime hours or days shall be as indicated.

K. Allow for 2 man–hours of training to the Owners staff for the operation of the electrical systems.

L. Substitutions are not acceptable.

2. PRODUCTS

A. Cabinets, enclosures and access panels shall be code gage steel with baked enamel finish and flangeless hinges and fasteners. Equipment bases shall be 3 inch high concrete, steel braced and reinforced with 1/4 inch chamfer, and shall extend a minimum of 2 inches around base of equipment. Vibration isolation shall be spring elements in suspended rods and isolation pads below equipment, electrical connections shall be flexible conduit.

B. Conduits shall be hot–dipped galvanized or electro–galvanized steel, minimum size shall be 3/4 inch, except power branch circuits may be 1/2 inch (unless noted otherwise) and flexible connections to recessed lighting fixtures which may be 3/8 inch. Flexible steel conduit shall be galvanized steel, with UL listed liquid tight jacket as required, for final connections to motors, recessed lighting fixtures, and life safety devices. Supports, including channels, angles, rods, and fasteners shall be hot–dipped galvanized steel. Conduits within the MRI scan room shall be aluminum. Manufacturer shall be Allied, LTV/Republic, Steelduct, or Wheatland.

C. Conduit fittings shall be steel, die cast fittings of pot metal are not acceptable. Electrical metallic tubing (EMT) fittings shall be compression type with insulated throats; set screw fittings are not acceptable. Intermediate metal conduit (IMC) and heavy wall conduit (HWG) fittings shall be of threaded joints; set screw and compression fittings are not acceptable. Conduit fittings within the MRI scan room shall be aluminum. Manufacturer shall be Appleton, Crouse Hinds/Midwest, OZ/GGedney, Raco, Steel City, or T&B.

D. Outlet boxes for all toggle switches, receptacles, communications devices, fire alarm devices, and life safety devices shall include plaster rings, device plates, and cover plates where required. Provide boxes suitable for plenum, wet, or hazardous locations as required. Device cover plates shall be stainless steel painted to match finish. Multi–gang outlet boxes shall include suitable one–piece device cover plate. Outlets located on opposite sides of a partition shall be staggered by 12 inches, minimum. Manufacturer shall be Appleton, Raco, or Steel City.

E. Wire shall be 600 Volt insulated copper, minimum size shall be No.12 AWG, wire sizes No.8 AWG and larger shall be stranded. Manufacturer shall be American Insulated Wire Corp., Cerro, Collyer, Capitol Wire and Cable, Okonite, Senetor, South Wire, or Triangle.

G. HCF–MC cable is acceptable for branch circuit wiring to feed new devices in existing walls. MC cable shall be terminated in a junction box in an accessible ceiling cavity within 24" of leaving the wall cavity. MC cable is not acceptable where not permitted by code, for feeders, or to feed mechanical equipment.

H. Cable supports shall be appropriate for the size of conduit and type of wire and cables. Cable lubricant shall be less than six percent solid residue after drying and shall not contain any waxes, greases, silicones, or glycol oils.

I. Local disconnect switches for electrically operated equipment shall be heavy duty within enclosure suitable for the location. Fusible disconnect switches 800 Amps and larger shall be bolted pressure, load–break type. Fusible and non–fusible disconnect switches 600 Amps and smaller shall be quick–make, quick–break type. Manufacturer shall be Cutler–Hammer, Siemens/ITE, or Square D.

J. Grounding system, including service and equipment grounding and bonding, shall be in accordance with code and shall connect all electrically operated equipment. Provide a separate green ground wire for each branch circuit and feeder.

K. Receptacles shall be duplex NEMA 5–20R, back and side wired, hospital grade, unless noted otherwise. Special receptacle configurations, duplex isolated ground receptacles, and duplex ground fault interrupter receptacles shall be as required or as indicated on the contract documents. General receptacle color shall be white and IG receptacle color shall be orange unless specified otherwise, verify color with Architect. Manufacturer shall be Bryant, Hubbell, Leviton, or Pass & Seymour.

L. Toggle switches shall be single pole 20 Amp, 120–277 Volt, back and side wired, specification grade, unless noted otherwise. Special switches, including 3–way, pilot light and momentary contact, shall be as required or as indicated on the contract documents. Color shall be white unless specified otherwise, verify color with Architect. Manufacturer shall be Bryant, Hubbell, Leviton, or Pass & Seymour.

M. Lighting fixtures shall include all appropriate accessories, mounting frame and trim for ceiling type. Lighting fixtures shall include coordinated air handling capability, plenum rating, damp label, wet label, and shall be explosion proof where required. Lighting fixtures recessed within grid type ceilings shall include securing clips as required by the local authority. Fixture manufacturer shall be as indicated;

3. EXECUTION

A. Penetrations and channels in floors and walls shall be via cutting and coring as required for the size of product, only in accordance with the Architect and Engineer recommendations, and as scheduled with the building management. Patch and fill sleeves, inserts, penetrations, and channels with appropriate code approved fire safing or filling to match or restore the original fire rating of the construction.

B. Make final connections to vibrating equipment, fixtures, and devices with flexible metal conduit or liquid tight flexible metal conduit as required. Extend ground wire through flexible connections.

C. Install conduit, fittings, supports, etc. in accordance with codes, standards, and manufacturers recommendations. The voltages identified in the following schedules are line–to–line or line–to–neutral. Interior concealed locations are those locations which are above ceilings, within walls, within floor slabs, and within dedicated electrical rooms. Conduit installation shall be as follows unless noted otherwise:

Voltage Location	0V thru 50V	Above 50V thru 250V	Above 250V thru 600V	Above 600V
Interior Concealed	EMT Concealed	EMT	≤ 2"EMT ≥ 2 1/2"IMC	HWG
Interior Exposed	EMT	≤ 2"EMT ≥ 2 1/2"IMC	IMC	HWG
Exterior and Hazardous Locations	EMT	IMC	HWG	HWG

D. Installations within air handling spaces, including plenum ceilings and built up air handling systems shall be approved for plenum installation and shall be in strict accordance with all applicable codes.

E. Installations within hazardous locations shall be listed for the Classification and Division of hazard. Install wiring and conduit complete with seals and explosion proof fittings in strict accordance with all applicable codes.

F. Install pull boxes, junction boxes, and outlet boxes in accordance with codes, standards, and manufacturers recommendations. Boxes shall include accessible covers, shall be fabricated of heavy gage galvanized steel, and shall be sized with code to adequately facilitate pulling and connecting the quantity of wires, cables, and feeders contained. Conduit terminations shall be made with bushings and locknuts. Supports for conduits and boxes shall be suspended directly to the building structural components and in no case shall they be attached to suspended ceiling grid, ductwork, or piping components.

G. Install feeders and branch circuit wiring in accordance with codes, standards, and manufacturers recommendations. Provide neutral sized at 200% or (2) neutral conductors where serving panels with 200% rated neutral bus, coordinate installation with panel manufacturers lug provisions. Install normal power, emergency power, fire alarm, and life safety systems within continuous metal raceways. Install concealed security and communications wiring within continuous metal raceways. Separate each system into independent raceways. Provide cable supports as required. Terminate cables per code and manufacturers recommendations. Provide (2) hole lugs for cables 250 kcmil and larger. Power wiring insulation shall be as follows unless noted otherwise:

Wire Location	300 kcmil and smaller	350 kcmil and larger	Environmental Conditions
Interior Locations	THHN/THWN	XHHW	dry
Exterior Locations	THHN/THWN THHN/THWN	XHHW XHHW–2	damp wet

H. Install grounding systems in accordance with codes, standards, and manufacturers recommendations.

I. Install lighting and associated controls, including fixtures, ballasts, lamps, toggle switches in accordance with codes, standards, and manufacturers recommendations.

J. Install single and multiple device cover plates as required. Extend existing devices to finished surface as required.

K. Install inscription plates and identification markings for products and wiring including the same inscriptions where indicated on the contract documents. Install plastic laminate nameplates on enclosures for each device within metering equipment, distribution panelboards, branch panelboards, motor starters, disconnect switches, transformers, and contactors. Nameplates shall be white with black core, 1–1/4 inches by 3 inches minimum, with 3/16 inch lettering, secured to equipment with two machine screws. Prepare and install type–written panel directory within each branch panel. Device plates shall be engraved for toggle switches and other devices whose function is not readily apparent. Markers shall be self–sticking for each wire and cable at terminations and at each accessible point in equipment and raceway.

L. Clean electrical apparatus prior to completion of construction. Keep work areas clean at all times.

M. Alterations and Demolition of existing systems shall be as follows:

1) Provide all alterations and demolition of the existing electrical installation as required, including any incidental materials to execute all removal, rerouting, relocation, and any other modifications for proper accommodation of all new construction as indicated on the contract documents. All alterations and demolition shall be as indicated on the contract documents or as required, including any modifications not specifically identified on any contract documents but required to complete all new construction.

2) Provide all modifications to existing equipment as required or as indicated on the contract documents in strict accordance with the existing product manufacturers recommendations.

3) Existing raceway, wire and cable extending through the construction area but serving areas outside the contract shall be rerouted and reconnected as required. All modifications shall be without any interruption to the building power, communications, security, fire alarm and life safety systems, or interference to other areas or tenants. Where any modifications would interfere with the daily operations of the building or other tenants, after–hours work or temporary services shall be provided with prior written approval from the building.

4) Existing conduit, wire, cable, supports, hangers, and other electrical installation which is removed, shall be completely removed, back to the first device or that equipment which is unaffected by the modifications. Conduit which is buried in concrete or otherwise inaccessible may be abandoned and capped at each end. All wire and cable shall be removed from any abandoned conduit.

5) Existing electrical materials and equipment, including lighting fixtures, switches, receptacles, speakers, conduit, outlet boxes, fittings, wire, cable, and other equipment and devices which are removed shall remain the property of the Owner and shall be stored or discarded as directed.

6) Reuse existing electrical products as indicated on the contract documents only as is found practical. Examine the condition of all such products, determine suitability for re–use, and periodically notify the Architect/Engineer of findings for final acceptance of re–use. Wire and cable for new construction or extension of an existing installation shall be new, in no case shall existing wire and cable be reused.

7) Refer to architectural demolition drawings for full extent and scope of partition and ceiling modifications.

a. Existing ceilings to remain shall not be altered except where removal and replacement of surfaces is required to modify systems within ceiling space.
b. Existing ceilings to be removed shall included demolition of all fixtures equipment, speakers, raceway, and wire, including any obsolete or previously abandoned products. Remaining areas shall only be altered as required and in accordance with the contract documents.
c. Existing partitions to remain shall not be altered except where removal and replacement of surfaces is required to modify systems within partitions.
d. Existing partitions to be removed shall include demolition of all devices, raceway and wire including any obsolete or previously abandoned products. Raceway and wiring systems serving other remaining areas shall only be altered as required and in accordance with the contract documents.
e. Existing floor mounted devices shall be demolished. Provide abandoning plates and fire proofing as required.

Field Inspection consultation is available upon request. Call 303-739-7420 to request a consultation

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Erick M. Bumpass
Date: Dec 24, 2020
2015 INTERNATIONAL CODES & 2020 NEC

RSN: 1508683
Permit #: 20-1909023

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No.	Description	Date

COLORADO LICENSED
MICHAEL P. THOMPSON
55150
PROFESSIONAL ENGINEER

10/08/2020

Issue	ISSUE FOR CONSTRUCTION
Date	09 OCTOBER 2020
Project Number	19-009D
Drawn by	Author
Checked by	Checker

Sheet Title
ELECTRICAL SPECIFICATIONS

Sheet Number
E.001

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LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	LAMP		FIXTURE		MANUFACTURER	ITEM NUMBER	REMARKS
		QUANT	TYPE/CRI-CT	VOLT	WATTS			
A1	2'X4' TAMPER RESISTANT TROFFER	-	LED	120/277	50.0	LUMINAIRE LED	#RMP-R24-F-H16CRSP-D14CRSP-MIN10-50W-3000LM-40K-MVOLT-ALS-1ES-WHT-WL-GLR-*-*-YM	NOTES 1,2

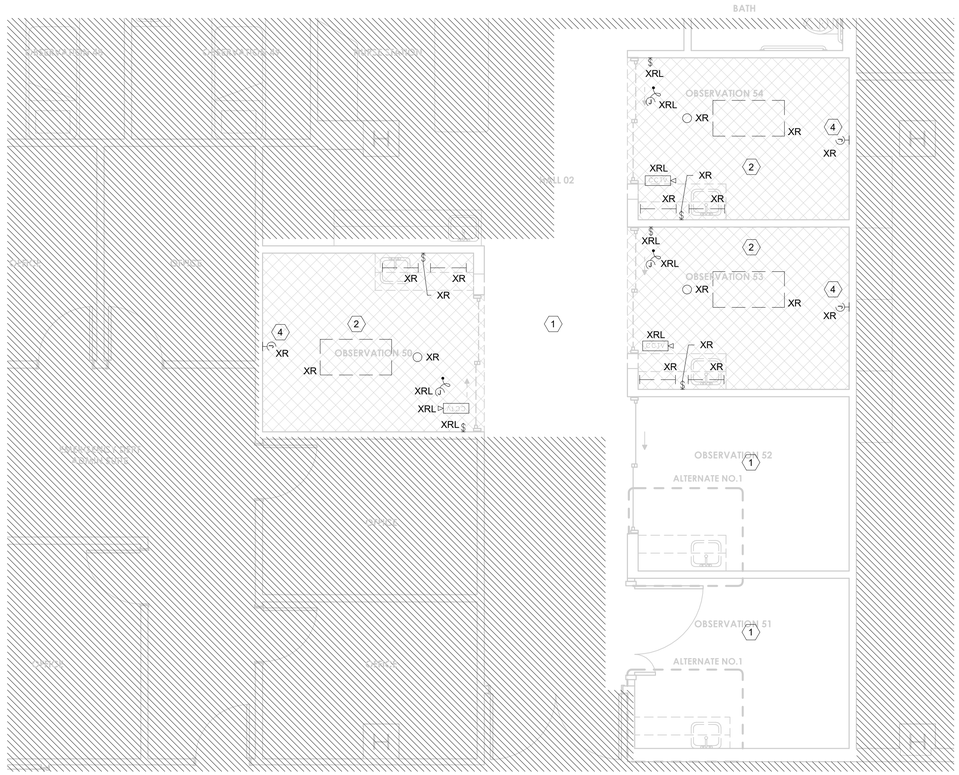
NOTES:
1. MANUFACTURERS' CATALOG NUMBERS ARE INTENTIONALLY INCOMPLETE; COORDINATE REQUIRED TRIM KITS, MOUNTING BRACKETS, LAMPS, FINISHES, ETC. WITH THE ARCHITECT, CONTRACT DOCUMENTS, SPECIFICATIONS, AND OTHER TRADES.
2. VERIFY TYPE OF CEILING OR WALL FOR MOUNTING OF LIGHTING FIXTURES PRIOR TO ORDERING.

GENERAL NOTES

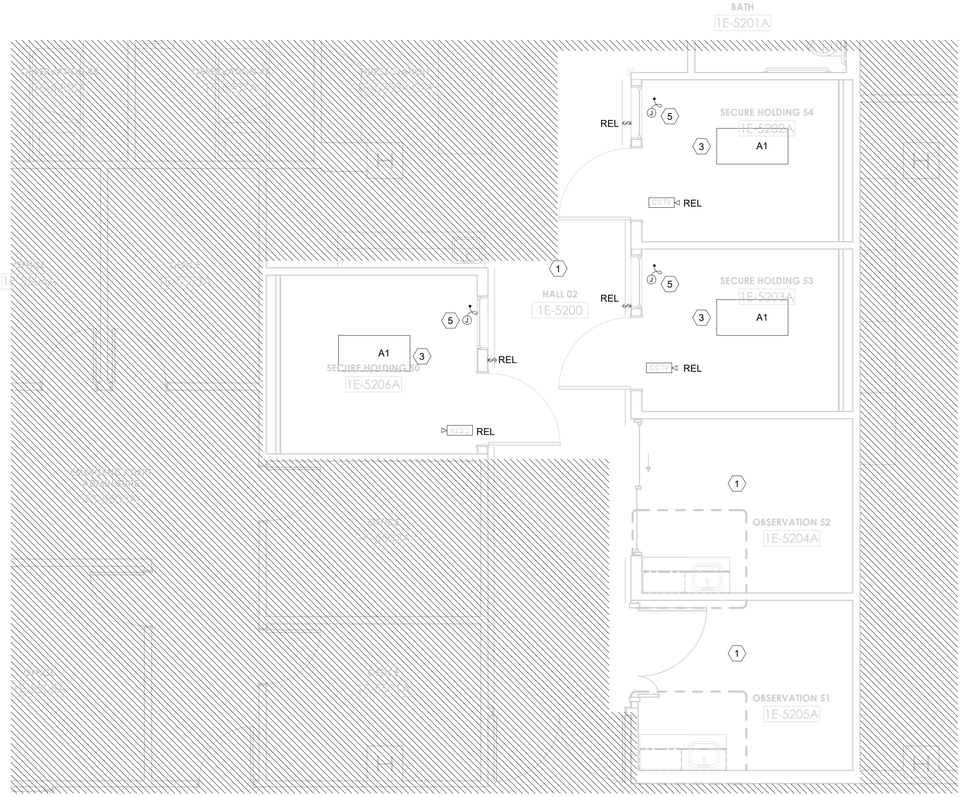
1. REFER TO ELECTRICAL SYMBOL LIST AND GENERAL NOTES ON SHEET E.001.

KEYED NOTES #

1. ALL ELECTRICAL, LIGHTING, AND FIRE ALARM DEVICES IN THIS SPACE ARE EXISTING TO REMAIN, UNO.
2. DEMOLISH ALL EXISTING CEILING MOUNTED SPECIAL SYSTEMS AND FIRE ALARM DEVICES WITHIN OBSERVATION ROOM.
3. CIRCUIT TO EXISTING CRITICAL BRANCH LIGHTING CIRCUIT PREVIOUSLY SERVING THE ROOM.
4. DEMOLISH EXISTING HEADWALL RECEPTACLE ASSEMBLY TO NEAREST ACCESSIBLE PULL BOX ABOVE CEILING.
5. RELOCATE EXISTING CEILING MOUNTED TV OUTLET ASSEMBLY TO WALL. EXTEND CONDUCTORS, CABLING, AND RACEWAY AS NECESSARY.



1 LEVEL 01-ELECTRICAL-DEMOLITION
1/4" = 1'-0"



2 LEVEL 01-ELECTRICAL
1/4" = 1'-0"

Provide Emergency Illumination Equipment That complies with 2020 NEC 700.12(F) or NEC 700.

Suspended Ceiling Systems and the Luminaires They support shall meet the requirements of 410.36(B) 2020 NEC

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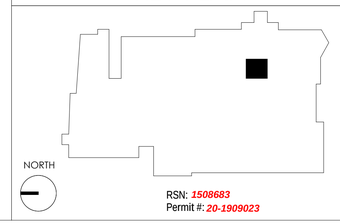
KEY PLAN



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No.	Description	Date

10/08/2020

19-009D TMCA MEDICAL DECISION UNIT

1501 S POTOMAC ST
AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	09 OCTOBER 2020
Project Number	19-009D
Drawn by	Author
Checked by	Checker
Sheet Title	LEVEL 01 - ELECTRICAL
Sheet Number	E.201

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